

ORGANICS
Calibration Data

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/31/19
Instrument: Linus

Initials: MA/

1030L004.D 1030L005.D 1030L006.D 1030L007.D 1030L008.D 1030L009.D 1030L010.D 1030L011.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.1255	0.1270	0.1199	*	0.1601	0.1377	0.1599	0.1385			0.14	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
12																	
13	* It was concentrated. Deleted from the ICAL																
14																	
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Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L004.D Vial: 4
 Acq On : 31 Oct 19 11:50 Operator: MA
 Sample : 50 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 12:28 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	924546	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3824592	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1847509	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3070665	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.42	240	2379935	40.00000	ppb	0.02
7) Perylene-D12 (IS)	10.65	264	2480690	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.19	45	145043m	63.19099	ppb	98

Quantitation Report

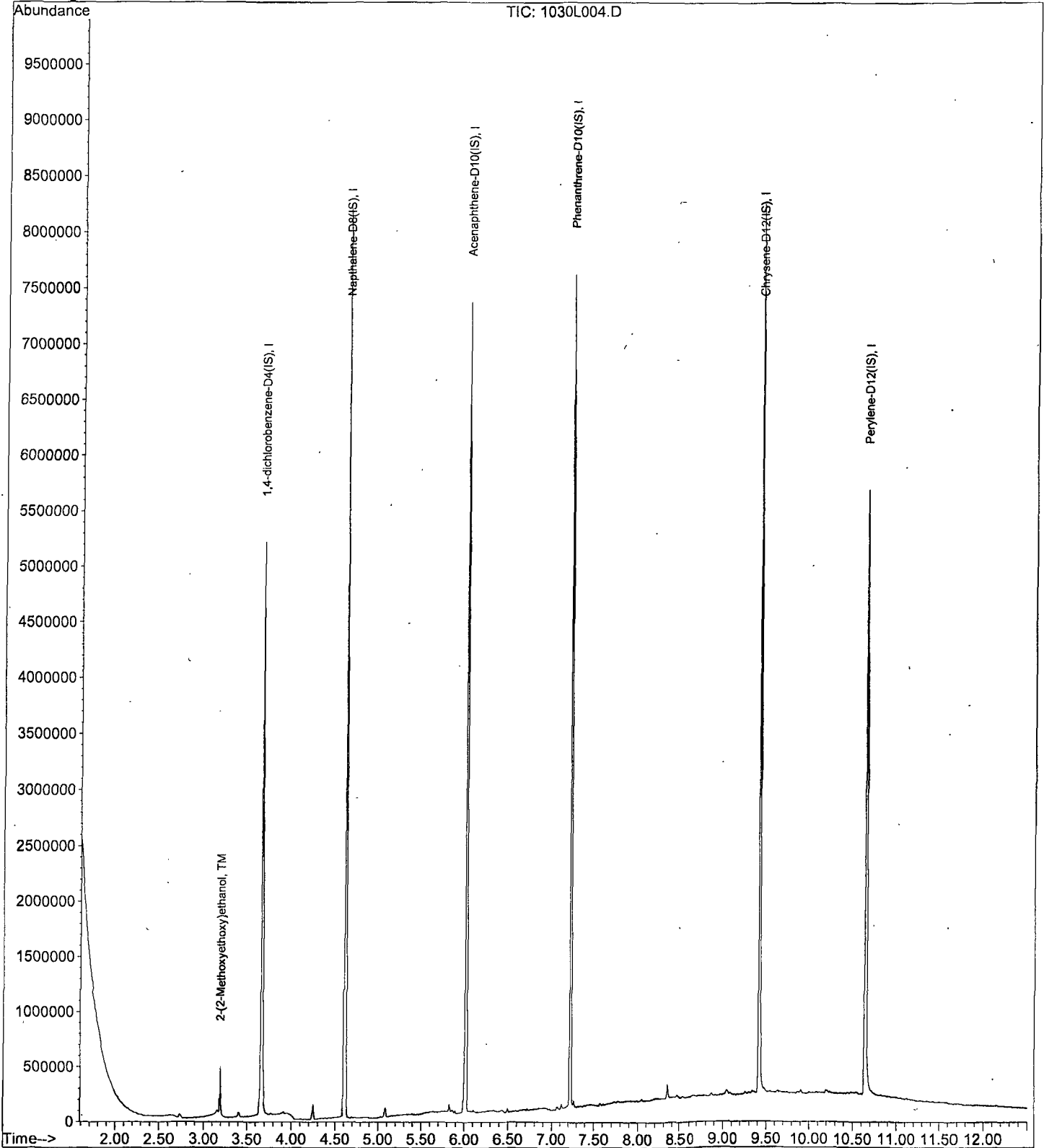
Data File : M:\LINUS\DATA\L191030M\1030L004.D
Acq On : 31 Oct 19 11:50
Sample : 50 2MEE 4/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 12:28 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration

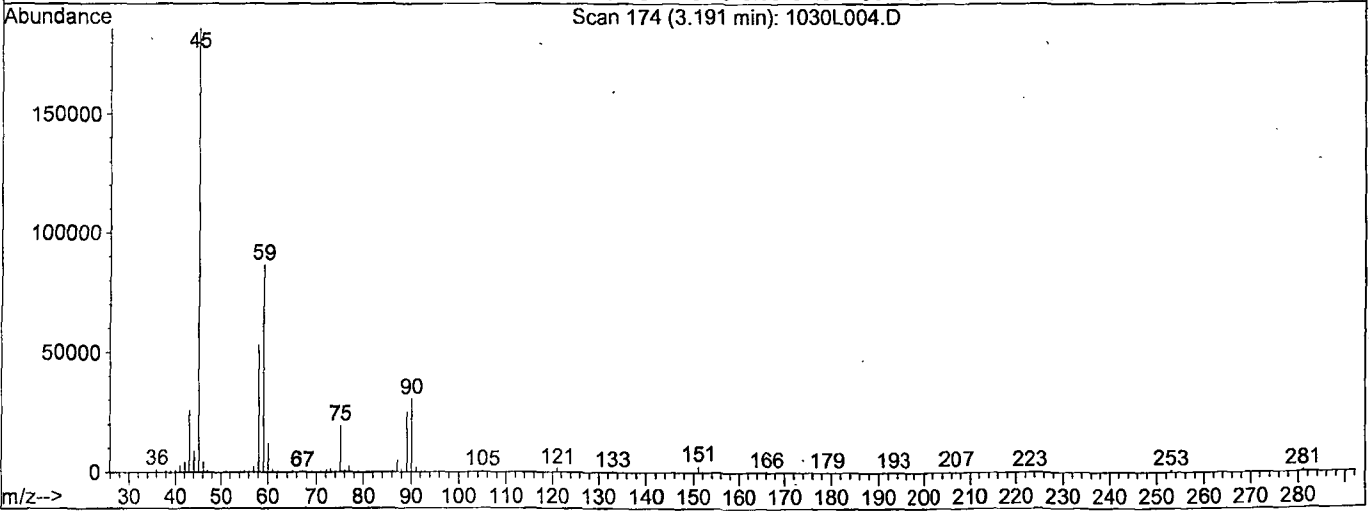
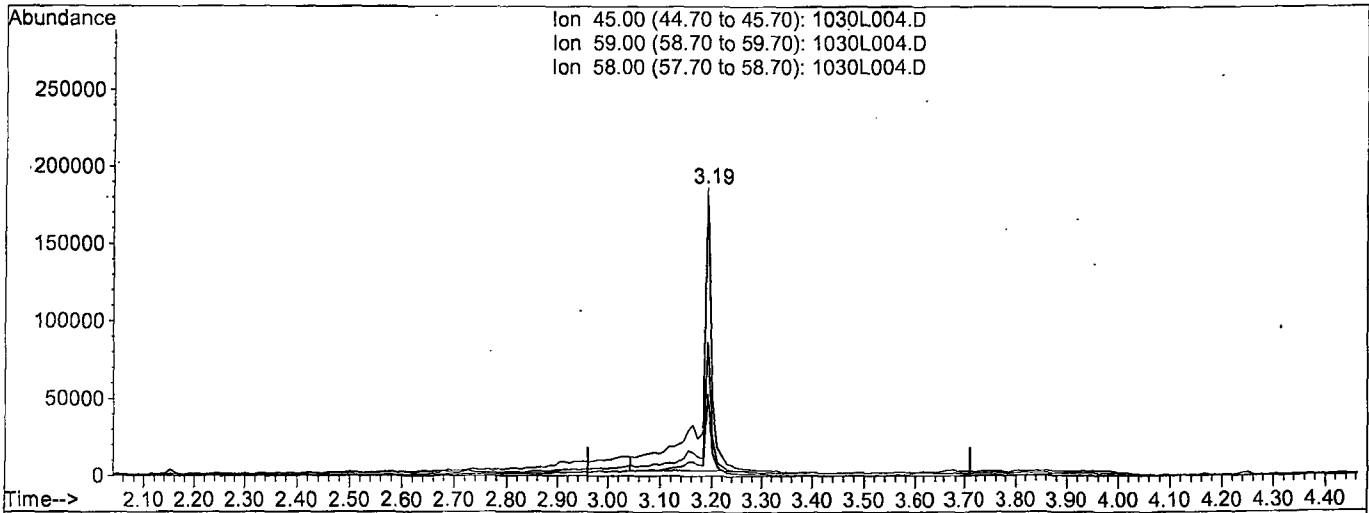


Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D
 Acq On : 31 Oct 19 11:50
 Sample : 50 2MEE 4/30/19
 Misc :
 Quant Time: Oct 31 12:04 2019

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 99.2279ppb

response 284001

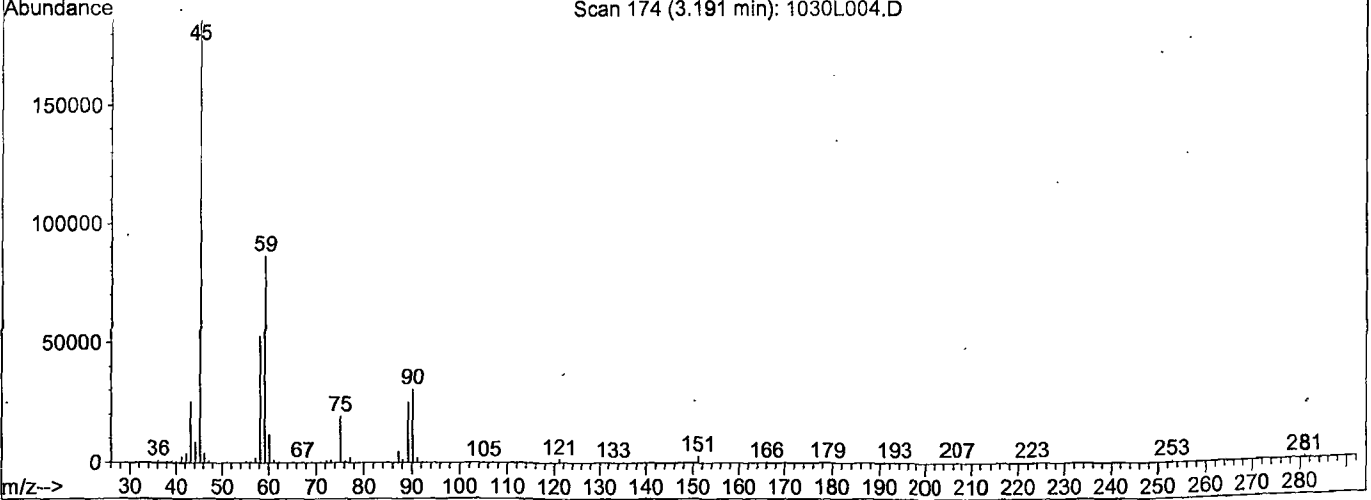
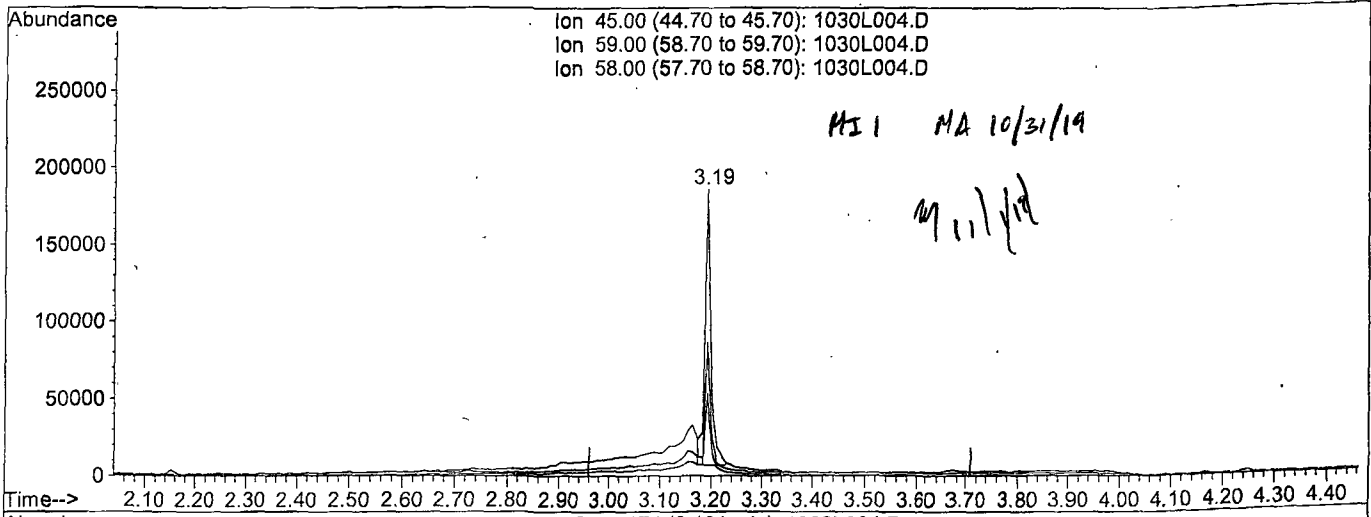
Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D
 Acq On : 31 Oct 19 11:50
 Sample : 50 2MEE 4/30/19
 Misc :
 Quant Time: Oct 31 12:28 2019

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 63.1910ppb m

response 145043

Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L005.D Vial: 5
 Acq On : 31 Oct 19 12:10 Operator: MA
 Sample : 100 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:29 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	802143	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3947022	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1905798	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3352515	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2935825	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2243163	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.19	45	254665	101.69486	ppb	93

Quantitation Report

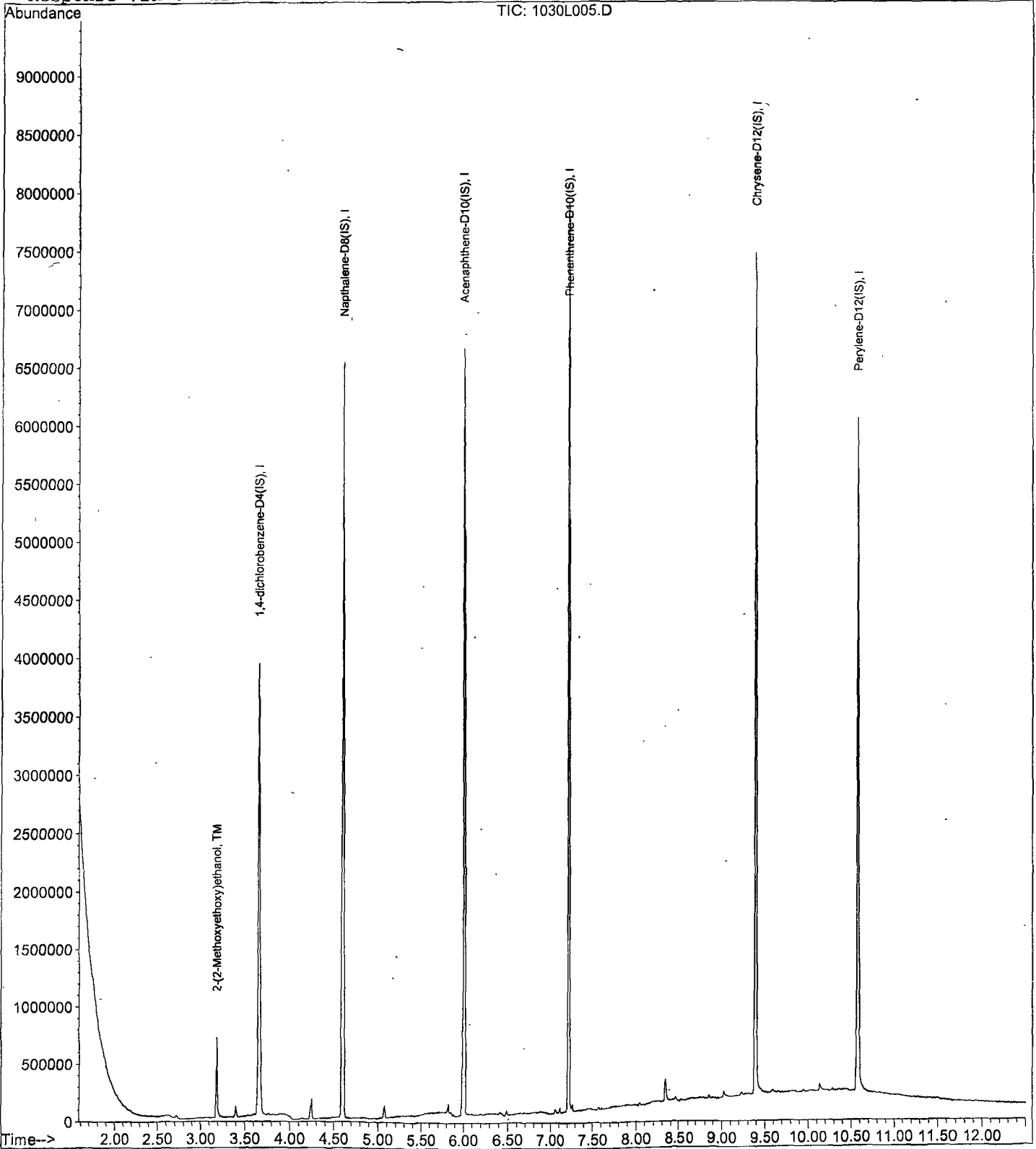
Data File : M:\LINUS\DATA\L191030M\1030L005.D
Acq On : 31 Oct 19 12:10
Sample : 100 2MEE 4/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:29 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L006.D
 Acq On : 31 Oct 19 12:29
 Sample : 200 2MEE 4/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	867176	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3930052	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2009214	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3319659	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	3235629	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2613264	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.20	45	519817	166.78709	ppb	99

Quantitation Report

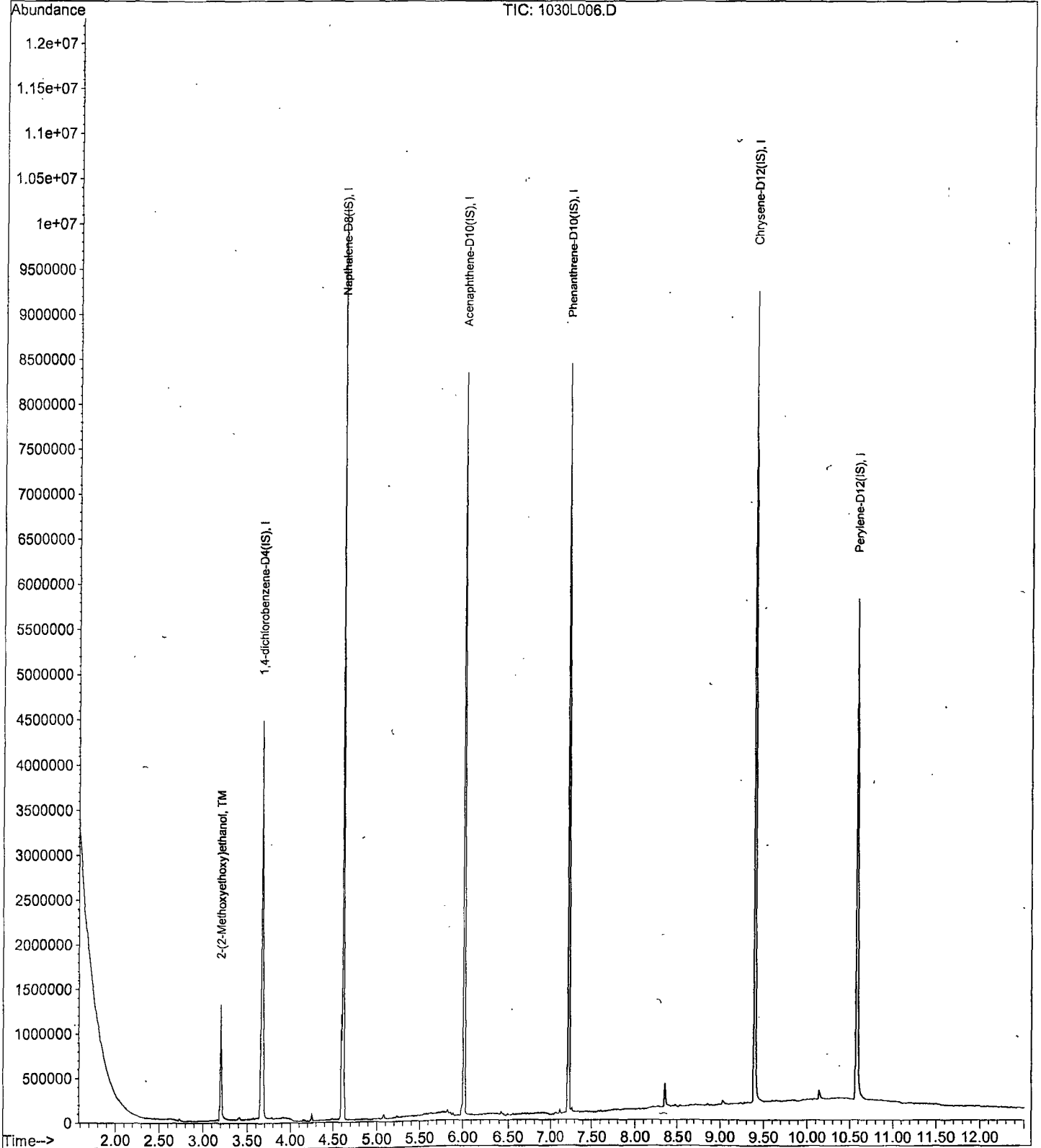
Data File : M:\LINUS\DATA\L191030M\1030L006.D
Acq On : 31 Oct 19 12:29
Sample : 200 2MEE 4/30/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
 Acq On : 31 Oct 19 12:49 Operator: MA
 Sample : 400 2MEE 4/30/19 not used. It got concen Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	768222	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3846001	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2102228	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3529522	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2845578	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2568289	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	1438559	476.21754	ppb	94

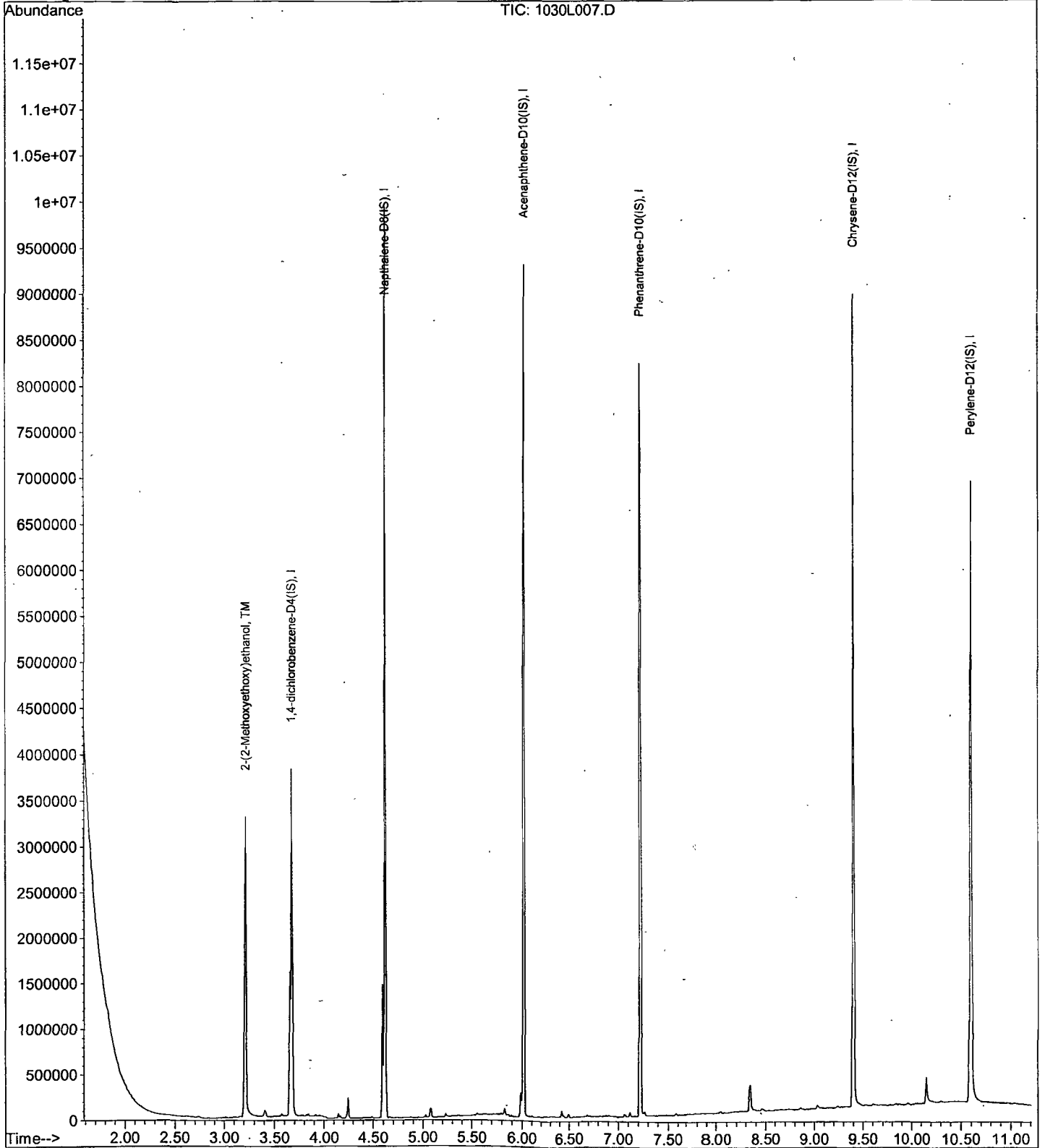
Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
Acq On : 31 Oct 19 12:49 Operator: MA
Sample : 400 2MEE 4/30/19 not used. It got concen Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L008.D
 Acq On : 31 Oct 19 13:07
 Sample : 500 2MEE 4/30/19
 Misc :

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 14:14 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 14:14:39 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	772292	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3394425	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1712966	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2832000	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2510708	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2441015	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.21	45	1545173	578.42618	ppb	100

Quantitation Report

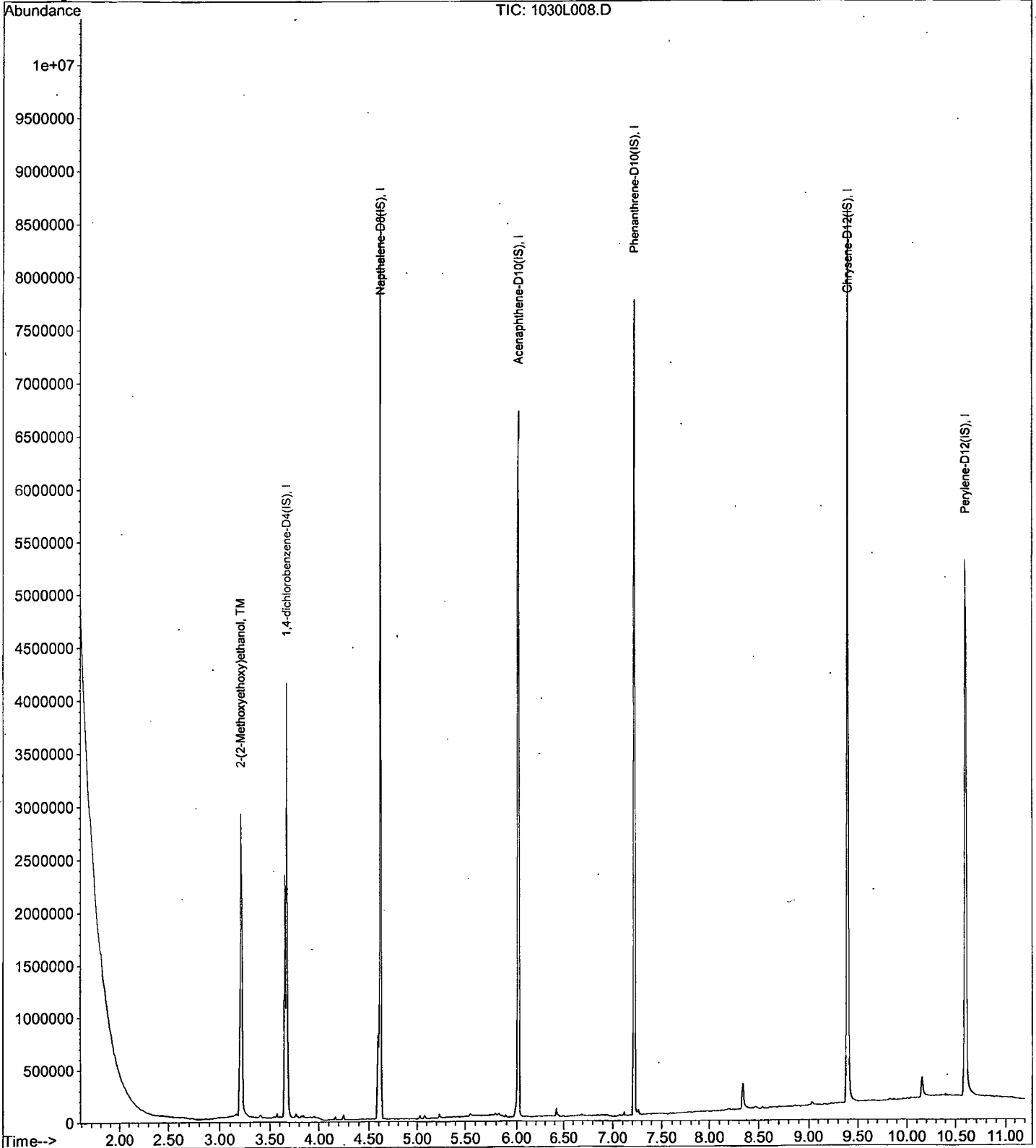
Data File : M:\LINUS\DATA\L191030M\1030L008.D
Acq On : 31 Oct 19 13:07
Sample : 500 2MEE 4/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:14 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L009.D Vial: 9
 Acq On : 31 Oct 19 13:25 Operator: MA
 Sample : 600 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:40 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	918679	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3995417	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2035544	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3476903	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2887642	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	2390309	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.22	45	1897302	517.69156	ppb	98

Quantitation Report

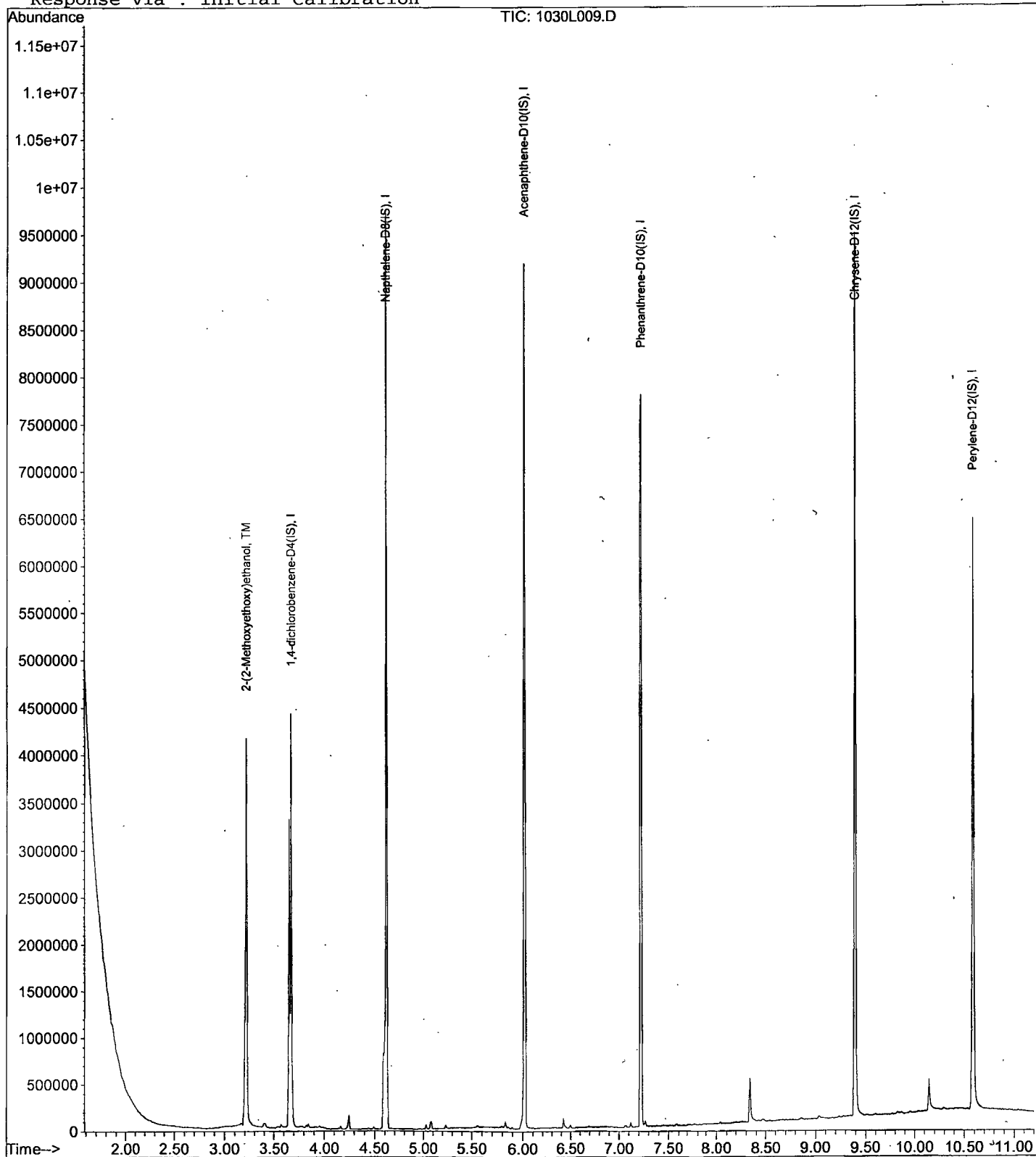
Data File : M:\LINUS\DATA\L191030M\1030L009.D
Acq On : 31 Oct 19 13:25
Sample : 600 2MEE 4/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:40 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L010.D
 Acq On : 31 Oct 19 13:43
 Sample : 800 2MEE 4/30/19
 Misc :

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 14:12 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	781913	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3819124	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2060420	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3432435	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	3218071	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.61	264	2421844	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.23	45	2499934	802.74185	ppb	98

Quantitation Report

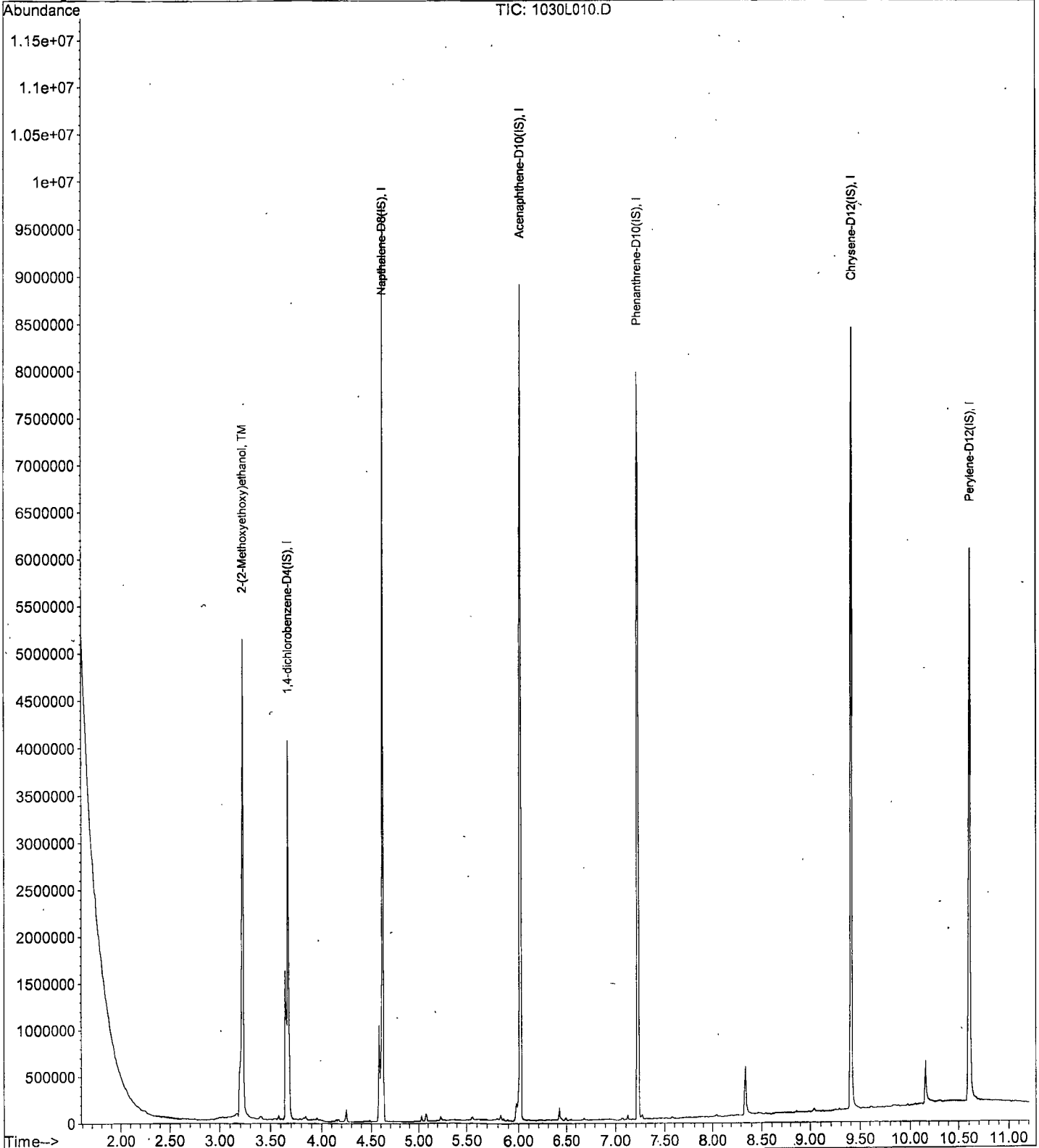
Data File : M:\LINUS\DATA\L191030M\1030L010.D
Acq On : 31 Oct 19 13:43
Sample : 800 2MEE 4/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:12 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L011.D Vial: 11
 Acq On : 31 Oct 19 14:02 Operator: MA
 Sample : 1000 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:13 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	893999	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4002209	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2003789	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3346119	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2853107	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2370540	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.23	45	3096034	880.60620	ppb	98

Quantitation Report

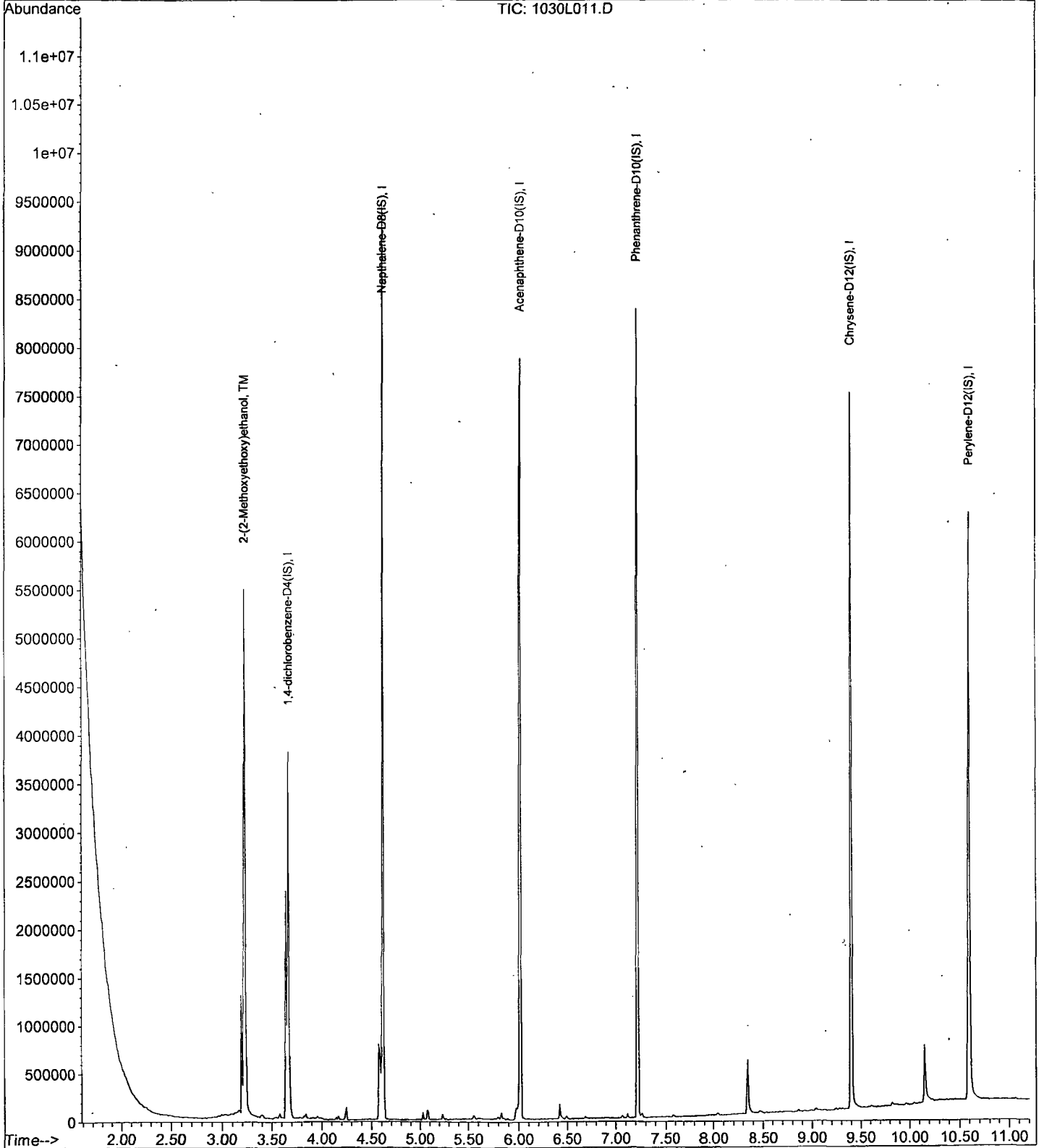
Data File : M:\LINUS\DATA\L191030M\1030L011.D
Acq On : 31 Oct 19 14:02
Sample : 1000 2MEE 4/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:13 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Secon Source Continuing Calibration

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

SDG No: _____
Date Analyzed: 1 Nov 19 17:11
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L016.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1658	20	TM
3	I Napthalene-D8(IS)	ISTD			I
4	I Acenaphthene-D10(IS)	ISTD			I
5	I Phenanthrene-D10(IS)	ISTD			I
6	I Chrysene-D12(IS)	ISTD			I
7	I Perylene-D12(IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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31					
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33					
34					
35					
36					
37					
38					
39					
40	Average			20.0	

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L016.D Vial: 16
 Acq On : 1 Nov 19 17:11 Operator: MA
 Sample : SS 2MEE 11/1/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 17:27 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:06:59 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	966230	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4151555	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2209408	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	4025811	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2795621	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	3078419	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	2003024	599.31894	ppb	100

Quantitation Report

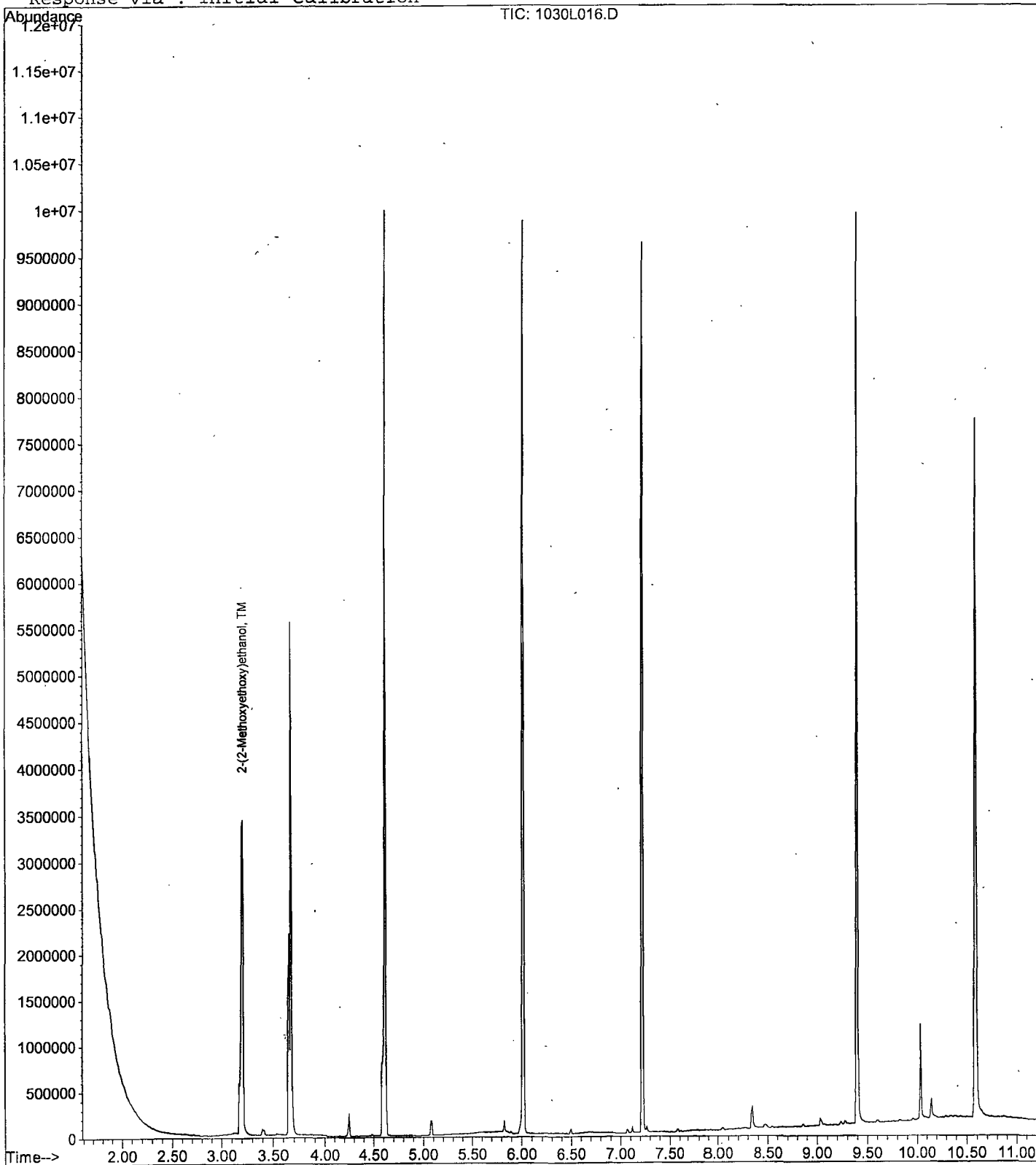
Data File : M:\LINUS\DATA\L191030M\1030L016.D
Acq.On : 1 Nov 19 17:11
Sample : SS 2MEE 11/1/19
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 17:27 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 1 Nov 19 16:15
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L015.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1528	10	TM
3	I Napthalene-D8(IS)	ISTD			I
4	I Acenaphthene-D10(IS)	ISTD			I
5	I Phenanthrene-D10(IS)	ISTD			I
6	I Chrysene-D12(IS)	ISTD			I
7	I Perylene-D12(IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

10.0

Data File : M:\LINUS\DATA\L191030M\1030L015.D
 Acq On : 1 Nov 19 16:15
 Sample : 500 2MEE 4/30/19
 Misc :

Vial: 15
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 1 16:30 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 14:18:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.65	152	892511	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	4.62	136	4064584	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2071335	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3678193	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	3053819	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.61	264	2924479	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	1705168	552.33933	ppb	99

Quantitation Report

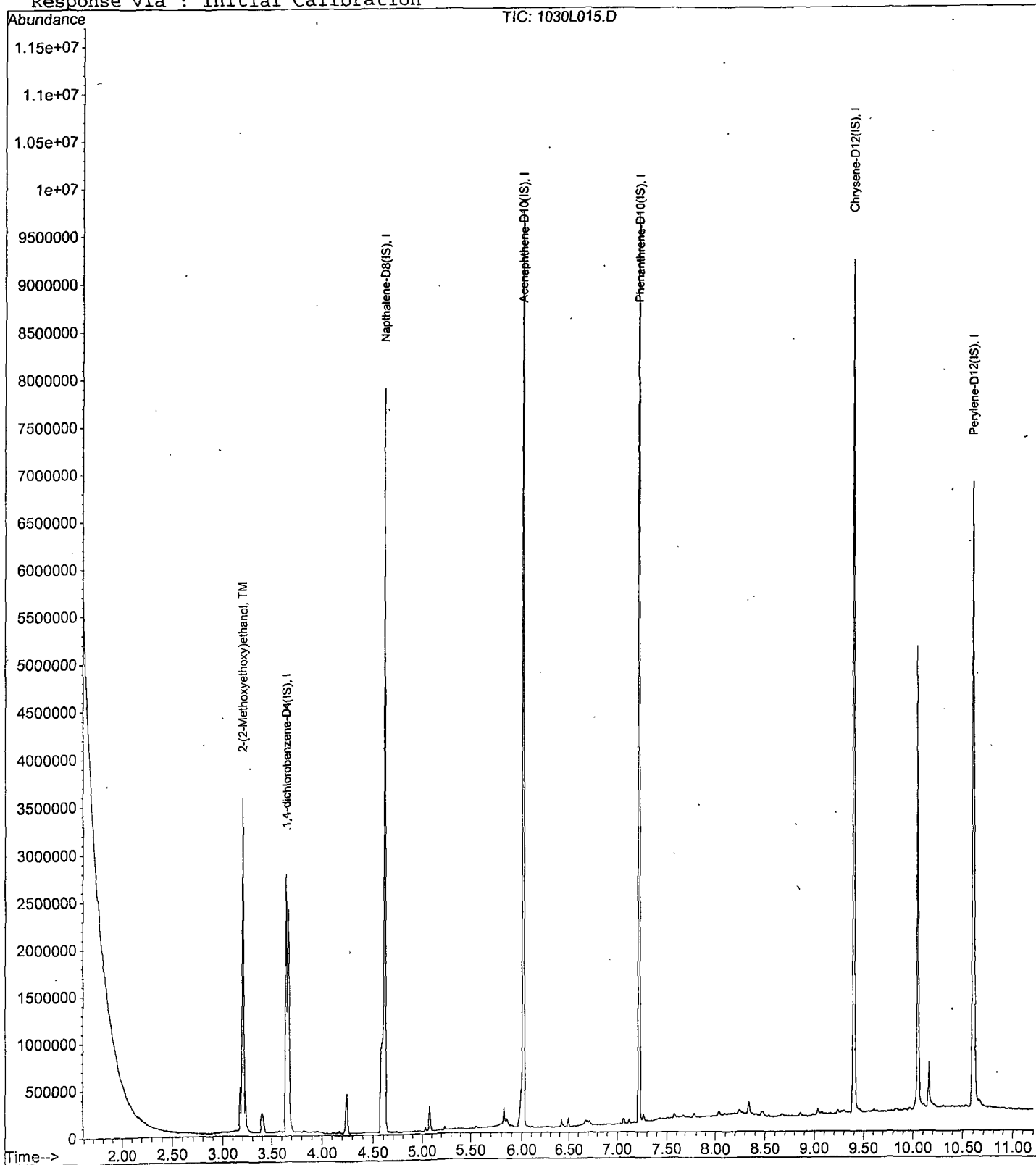
Data File : M:\LINUS\DATA\L191030M\1030L015.D
Acq On : 1 Nov 19 16:15
Sample : 500 2MEE 4/30/19
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 16:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7
Continuing Calibration

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

SDG No: _____
Date Analyzed: 2 Nov 19 00:07
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L039.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1534	11	TM
3	I Napthalene-D8(IS)	ISTD			I
4	I Acenaphthene-D10(IS)	ISTD			I
5	I Phenanthrene-D10(IS)	ISTD			I
6	I Chrysene-D12(IS)	ISTD			I
7	I Perylene-D12(IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			11.0	

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L039.D Vial: 39
 Acq On : 2 Nov 19 00:07 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:39 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	891531m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3825839	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1833836	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3287488	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	3160925	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	3110577	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	1709393	554.31654	ppb	93

Quantitation Report

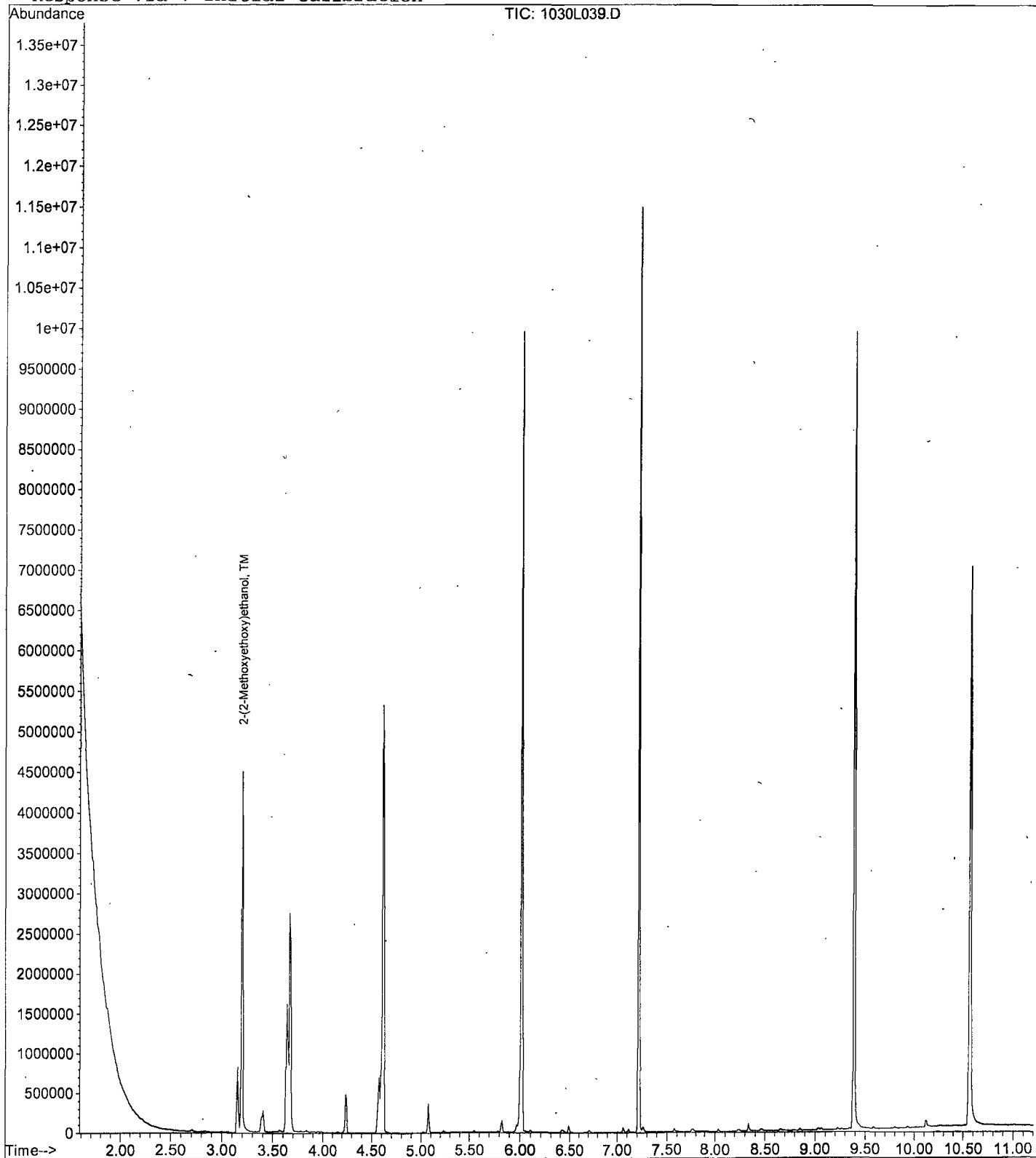
Data File : M:\LINUS\DATA\L191030M\1030L039.D
Acq On : 2 Nov 19 00:07
Sample : 500 2MEE 4/30/19
Misc :

Vial: 39
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:39 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration

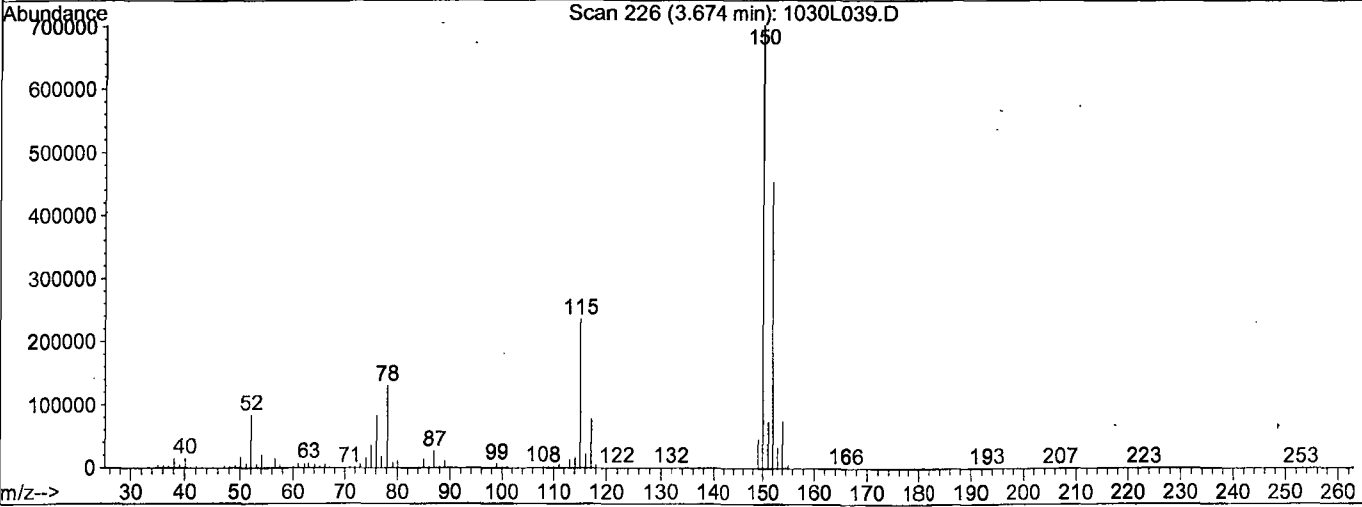
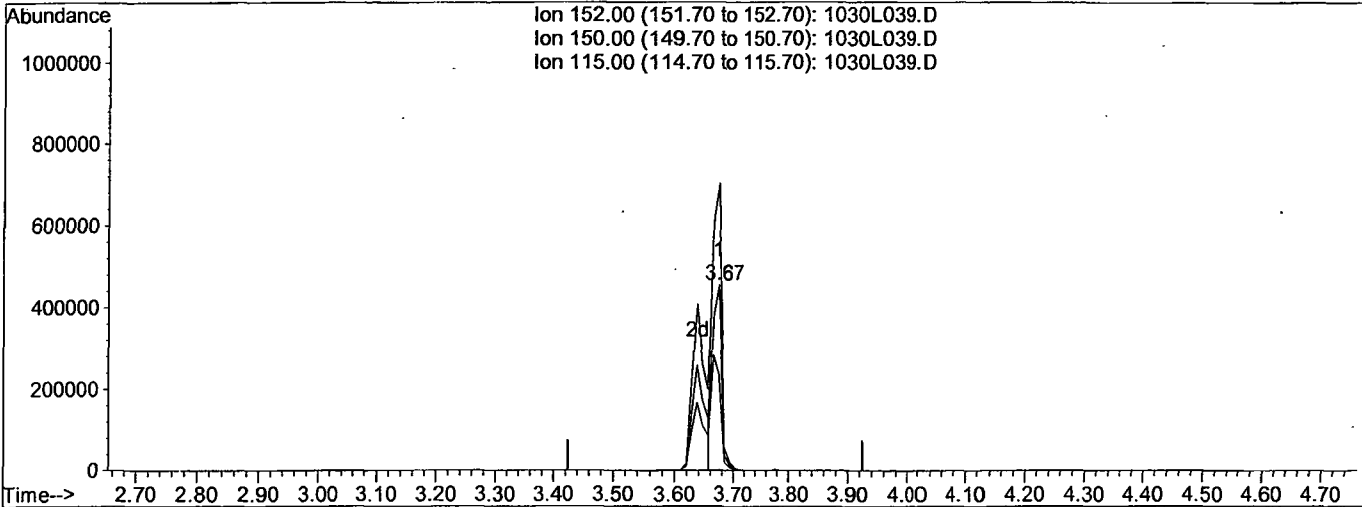


Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L039.D
 Acq On : 2 Nov 19 00:07
 Sample : 500 2MEE 4/30/19
 Misc :
 Quant Time: Nov 2 12:38 2019

Vial: 39
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Multiple Level Calibration



TIC: 1030L039.D

(1) 1,4-dichlorobenzene-D4(1S) (I)

3.67min 40.0000ppb

response 495213

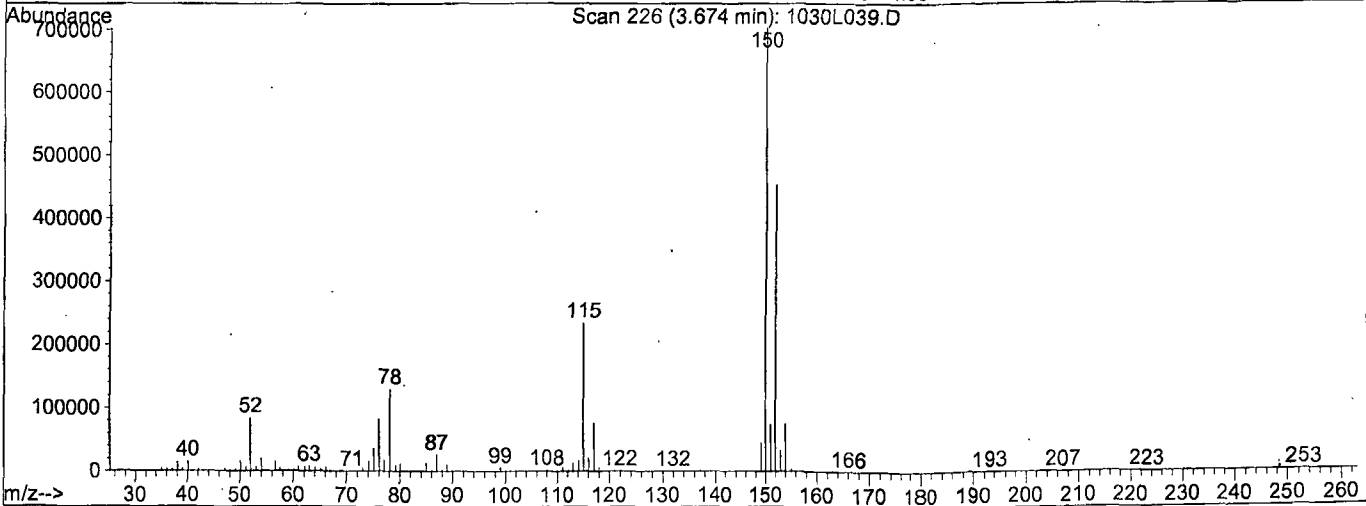
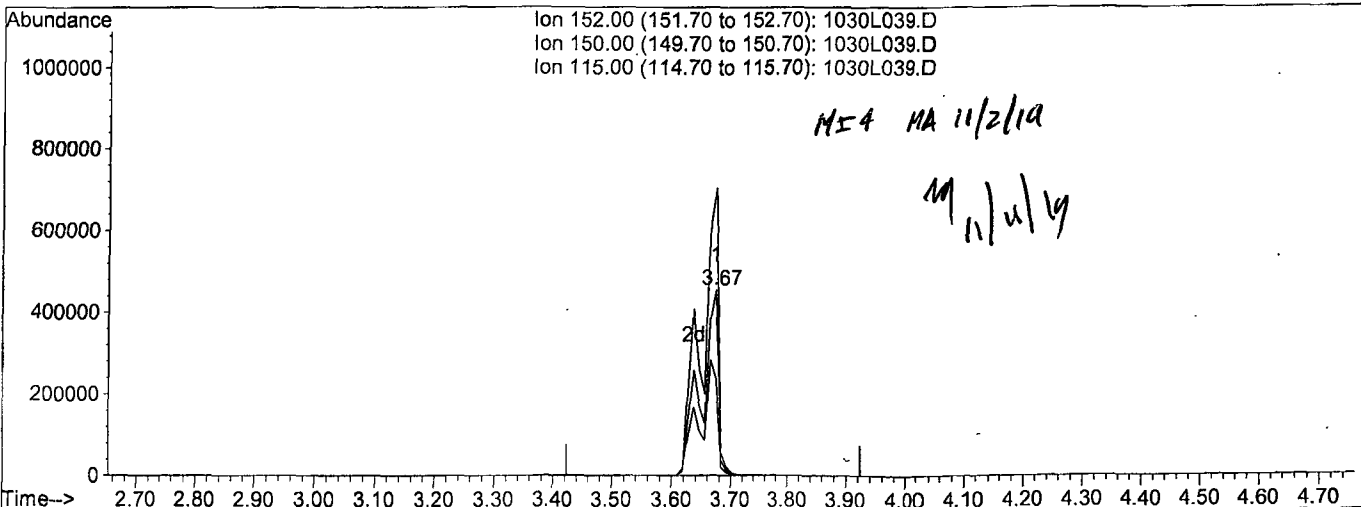
Ion	Exp%	Act%
152.00	100	100
150.00	157.00	155.00
115.00	59.10	51.72
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L039.D
 Acq On : 2 Nov 19 00:07
 Sample : 500 2MEE 4/30/19
 Misc :
 Quant Time: Nov 2 12:39 2019

Vial: 39
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Multiple Level Calibration



TIC: 1030L039.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

3.67min 40.0000ppb m

response 891531

Ion	Exp%	Act%
152.00	100	100
150.00	157.00	154.82
115.00	59.10	51.71
0.00	0.00	0.00

ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L191030M\1030L025.D Vial: 25
 Acq On : 1 Nov 19 19:56 Operator: MA
 Sample : BA01651W11 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	730660	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2907189	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1352781	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2563312	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1871103	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.55	264	2133742	40.00000	ppb	-0.05

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

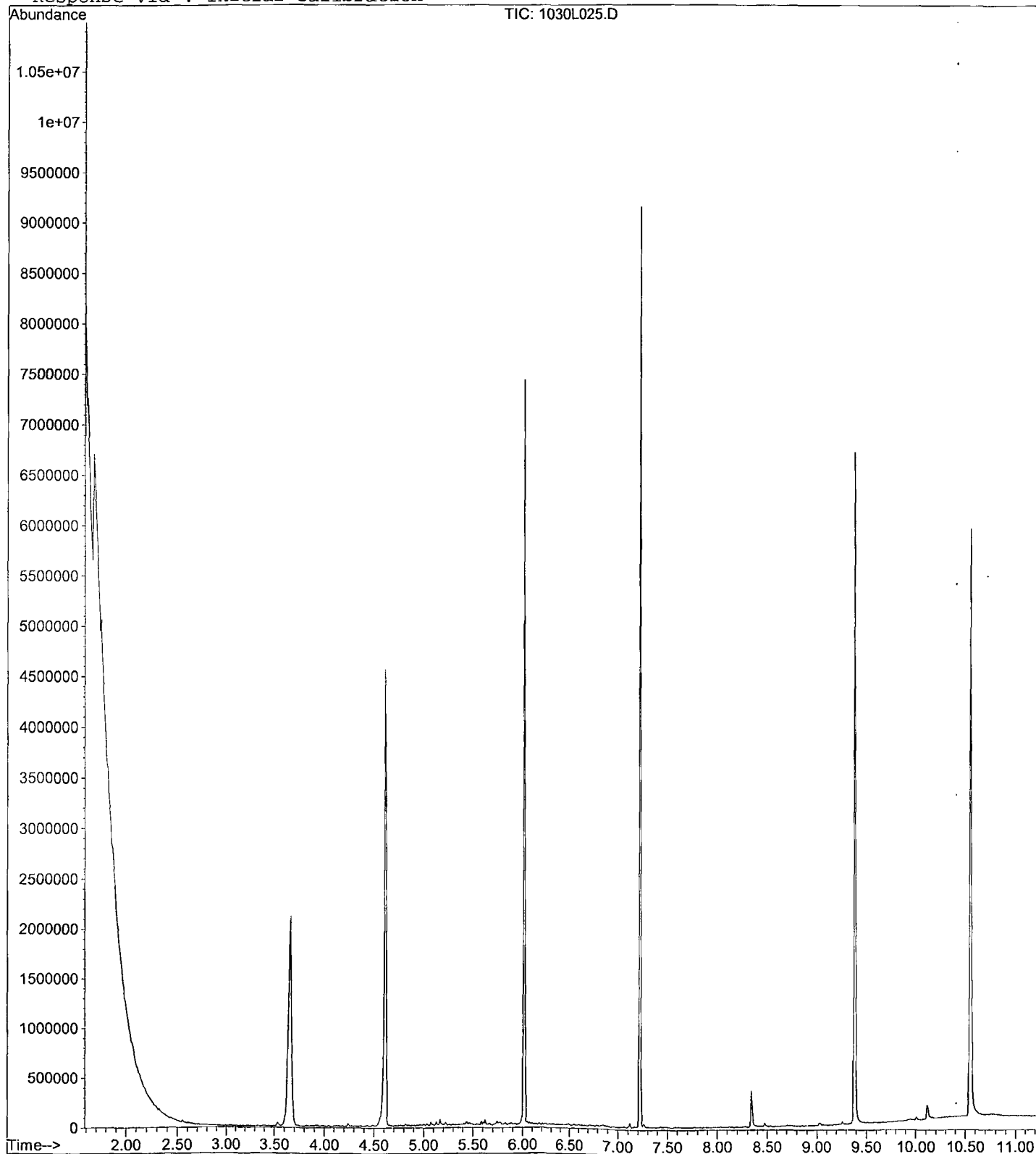
Data File : M:\LINUS\DATA\L191030M\1030L025.D
Acq On : 1 Nov 19 19:56
Sample : BA01651W11 2/500
Misc :

Vial: 25
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L026.D Vial: 26
 Acq On : 1 Nov 19 20:14 Operator: MA
 Sample : BA01652W07 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	664473	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2650755	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1308823	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2587233	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1741410	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.55	264	1991234	40.00000	ppb	-0.05

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

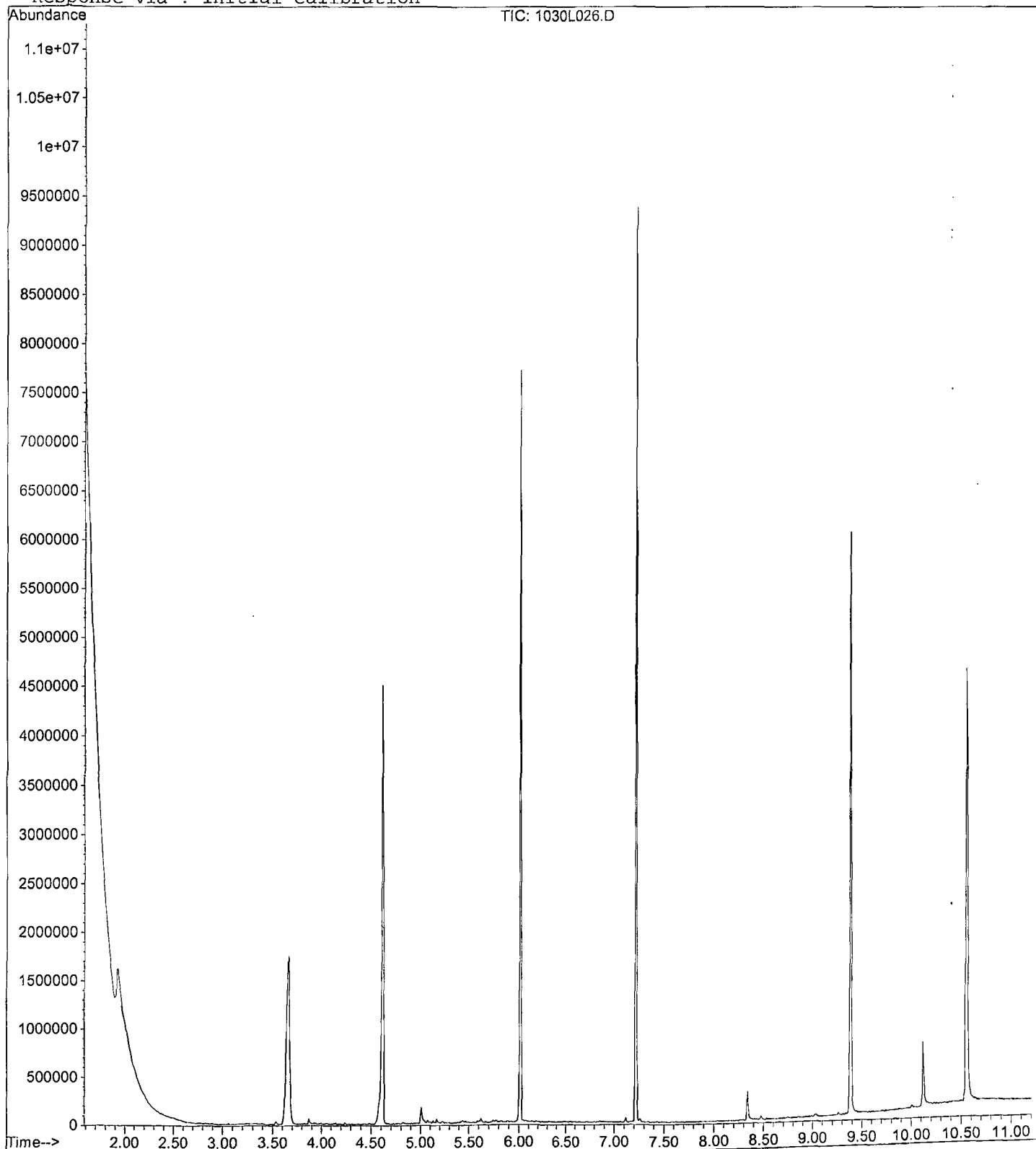
Data File : M:\LINUS\DATA\L191030M\1030L026.D
Acq On : 1 Nov 19 20:14
Sample : BA01652W07 2/500
Misc :

Vial: 26
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L027.D Vial: 27
 Acq On : 1 Nov 19 20:32 Operator: MA
 Sample : BA01654W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	712409	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	2945757	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1338290	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2548554	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1963290	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.54	264	2184743	40.00000	ppb	-0.06

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

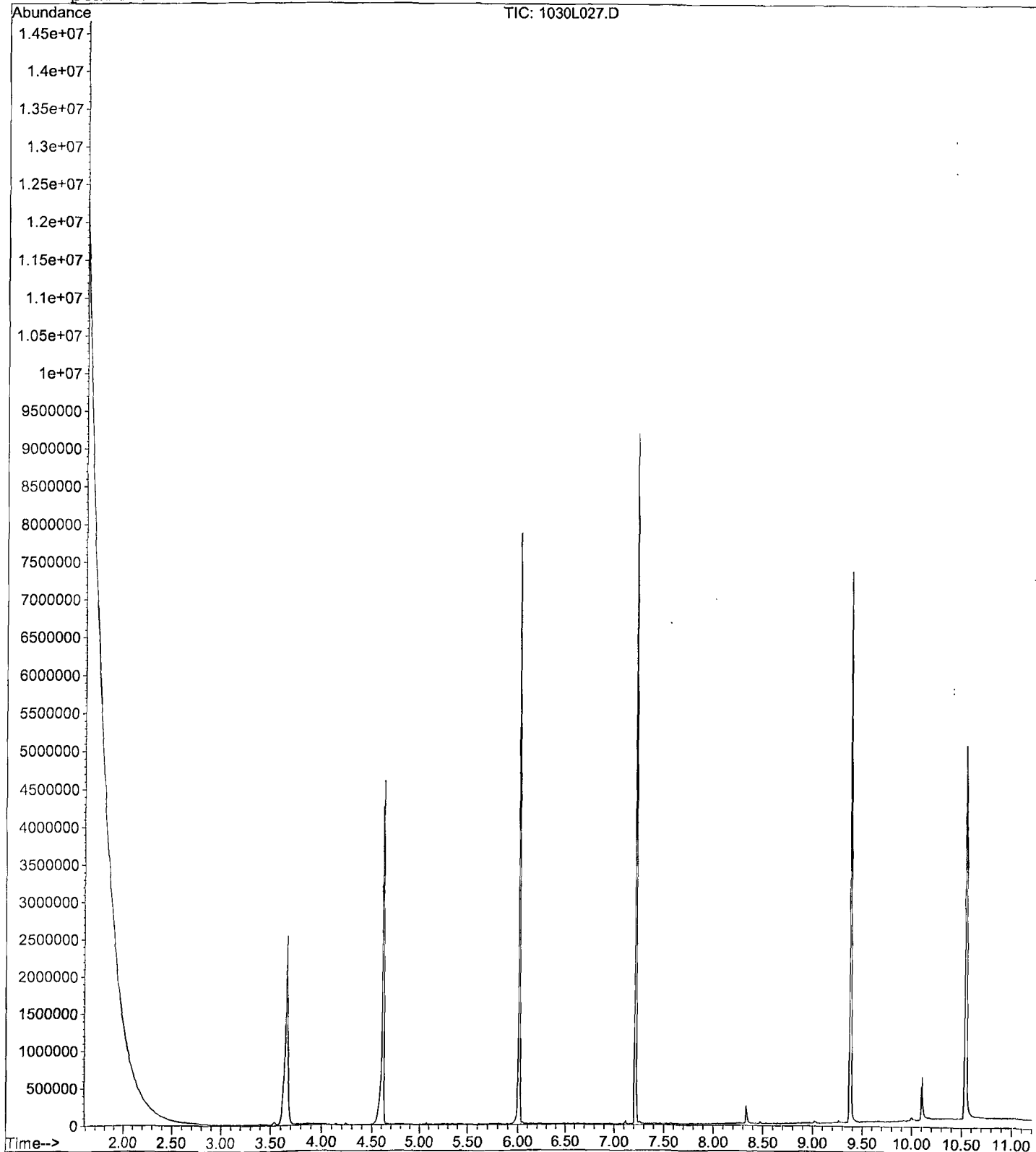
Data File : M:\LINUS\DATA\L191030M\1030L027.D
Acq On : 1 Nov 19 20:32
Sample : BA01654W10 2/500
Misc :

Vial: 27
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L028.D Vial: 28
 Acq On : 1 Nov 19 20:50 Operator: MA
 Sample : BA01656W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	756222	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3036636	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1415968	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2758862	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	2001356	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.56	264	2385271	40.00000	ppb	-0.04

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

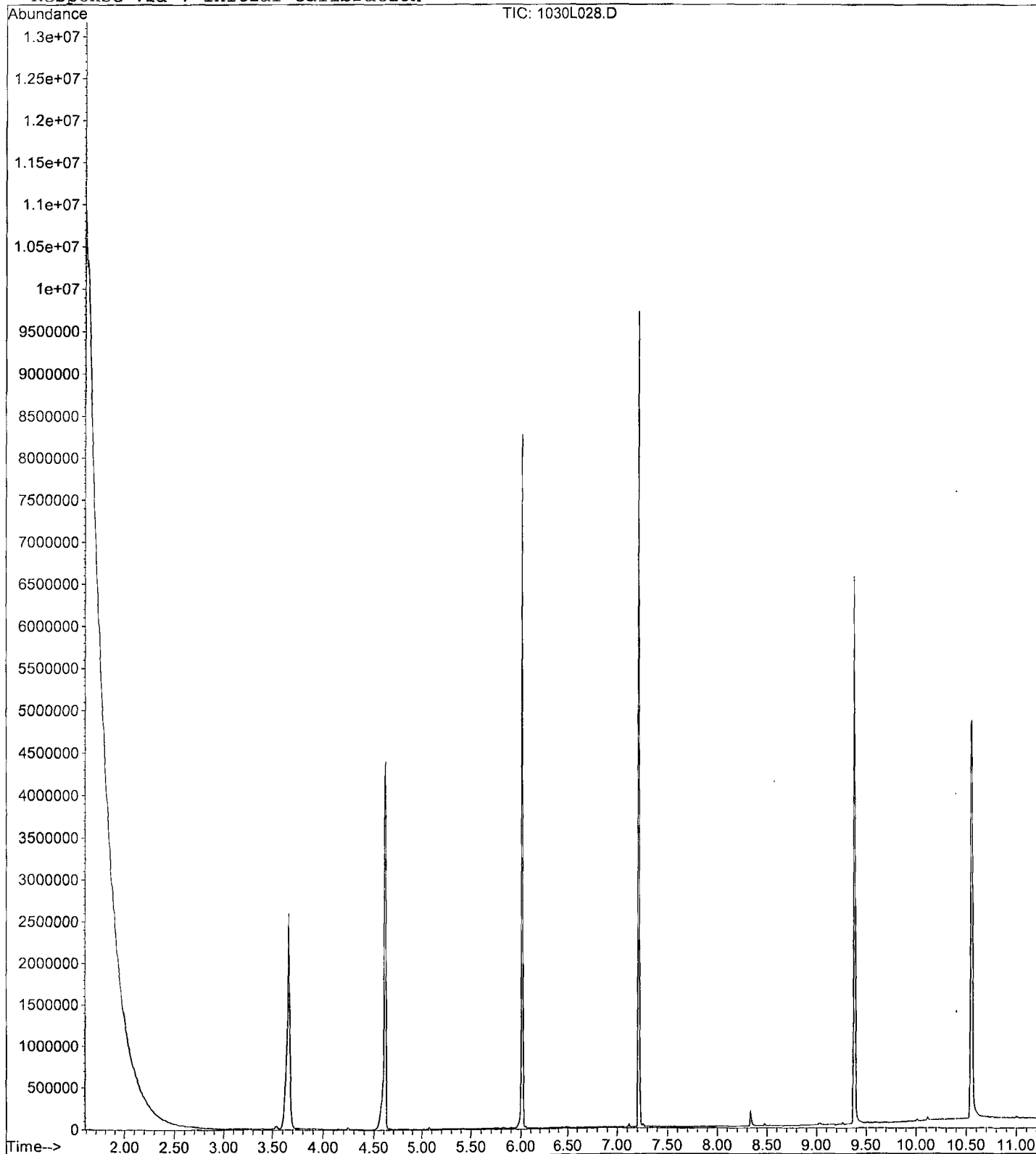
Data File : M:\LINUS\DATA\L191030M\1030L028.D
Acq On : 1 Nov 19 20:50
Sample : BA01656W10 2/500
Misc :

Vial: 28
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L029.D Vial: 29
 Acq On : 1 Nov 19 21:08 Operator: MA
 Sample : BA01658W11 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	723490	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2738250	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1354150	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2653185	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1985001	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.56	264	2120921	40.00000	ppb	-0.04

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

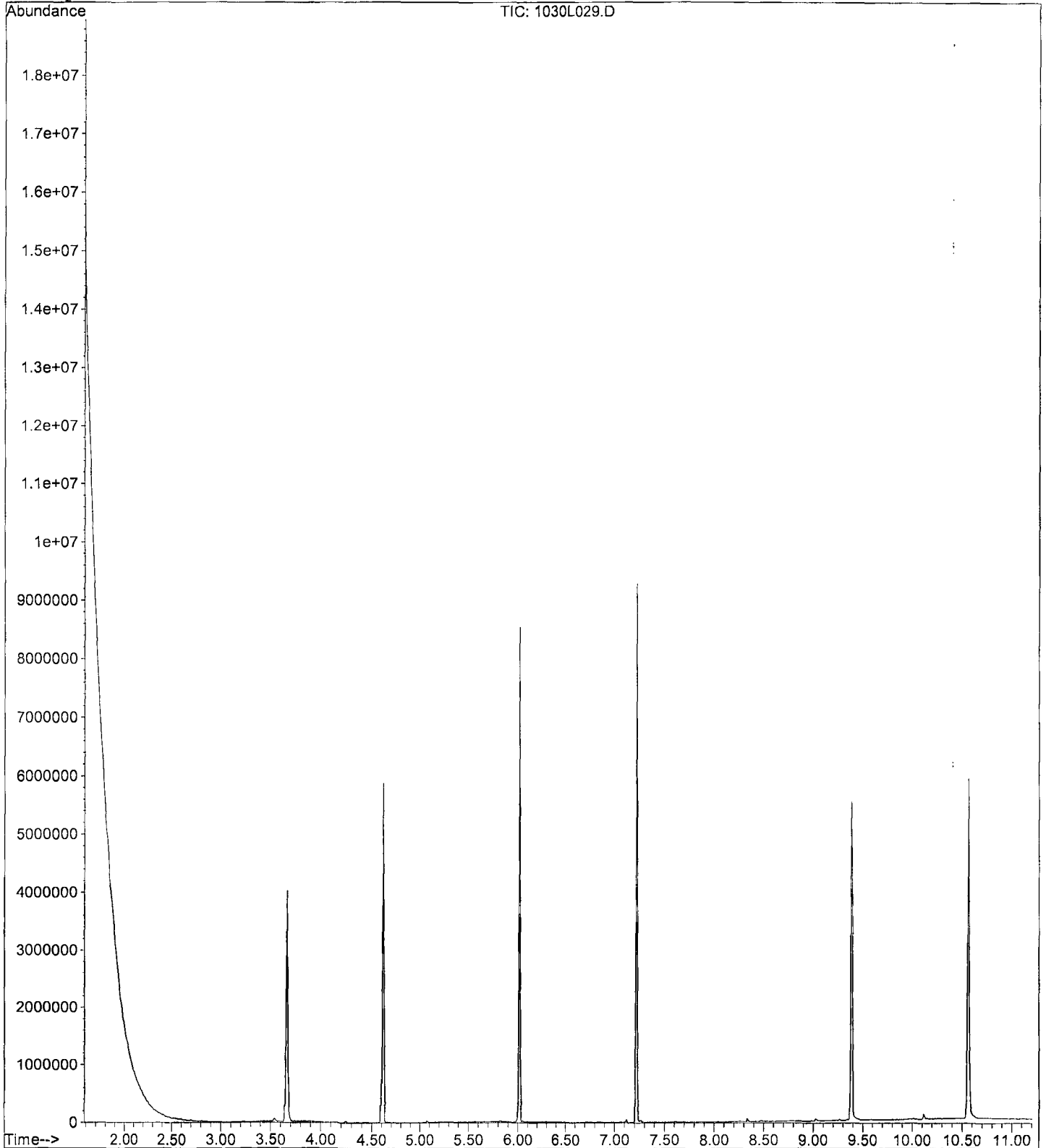
Data File : M:\LINUS\DATA\L191030M\1030L029.D
Acq On : 1 Nov 19 21:08
Sample : BA01658W11 2/500
Misc :

Vial: 29
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L030.D Vial: 30
 Acq On : 1 Nov 19 21:26 Operator: MA
 Sample : BA01660W10 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	801872	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	3308930	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1510416	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3023003	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2303880	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2541051	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

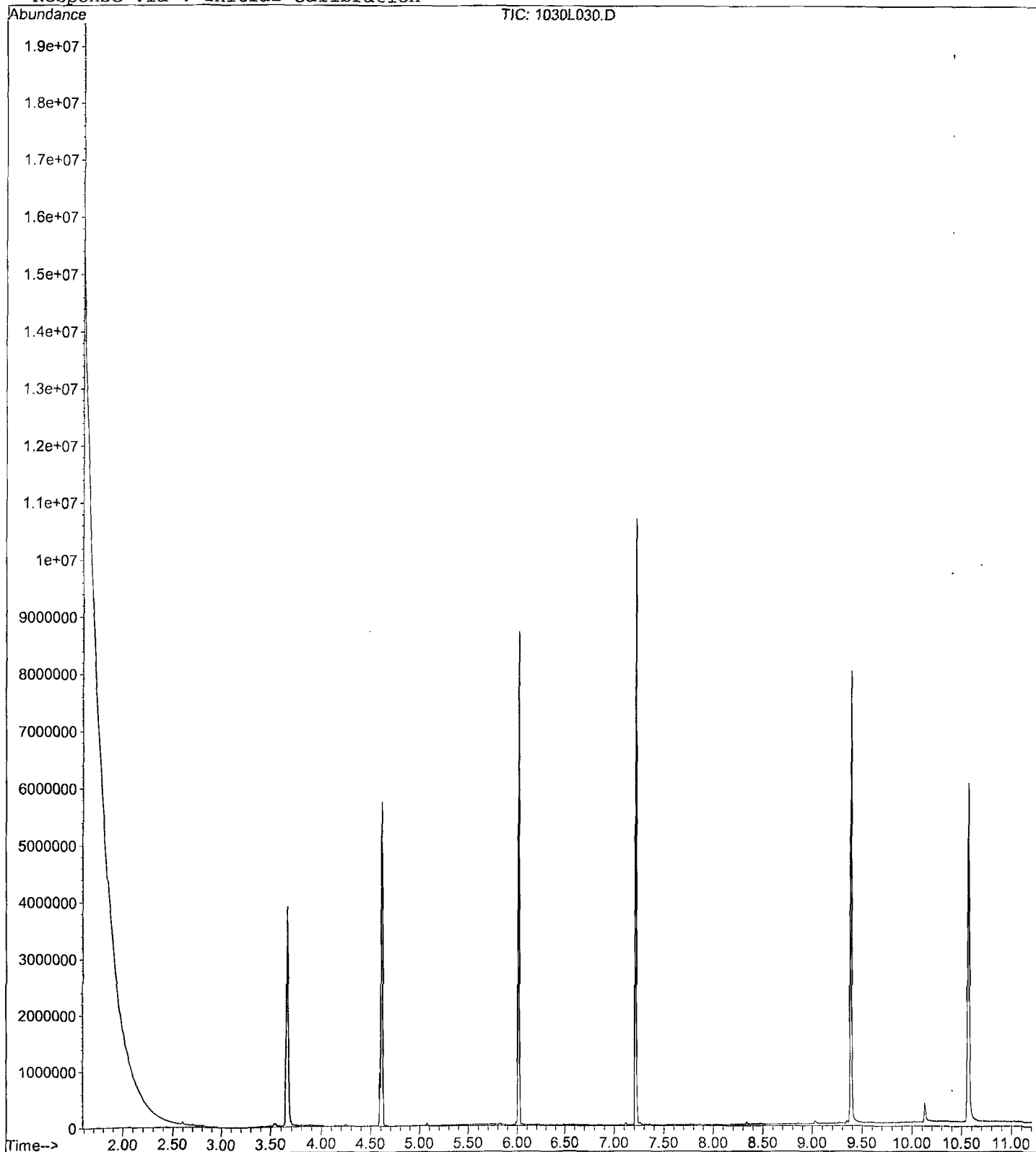
Data File : M:\LINUS\DATA\L191030M\1030L030.D
Acq On : 1 Nov 19 21:26
Sample : BA01660W10 2/500
Misc :

Vial: 30
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L031.D Vial: 31
 Acq On : 1 Nov 19 21:44 Operator: MA
 Sample : BA01662W17 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:58 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	739966	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2886753	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1343427	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2625845	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1992875	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.56	264	2170225	40.00000	ppb	-0.04

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

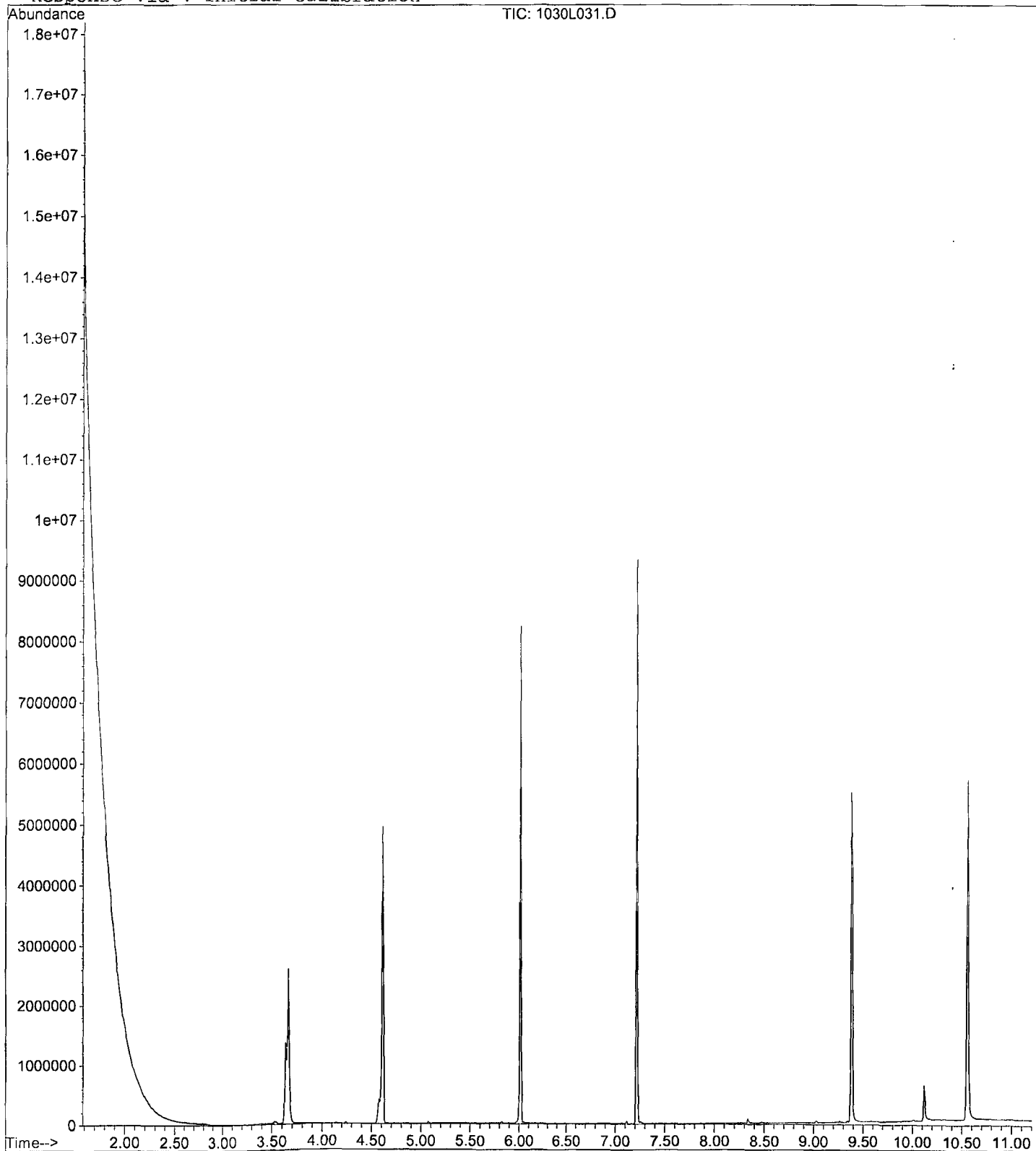
Data File : M:\LINUS\DATA\L191030M\1030L031.D
Acq On : 1 Nov 19 21:44
Sample : BA01662W17 2/500
Misc :

Vial: 31
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:58 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L032.D Vial: 32
 Acq On : 1 Nov 19 22:02 Operator: MA
 Sample : BA01664W18 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	747693	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2864955	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1412633	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2789738	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1933148	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.55	264	2312582	40.00000	ppb	-0.05

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

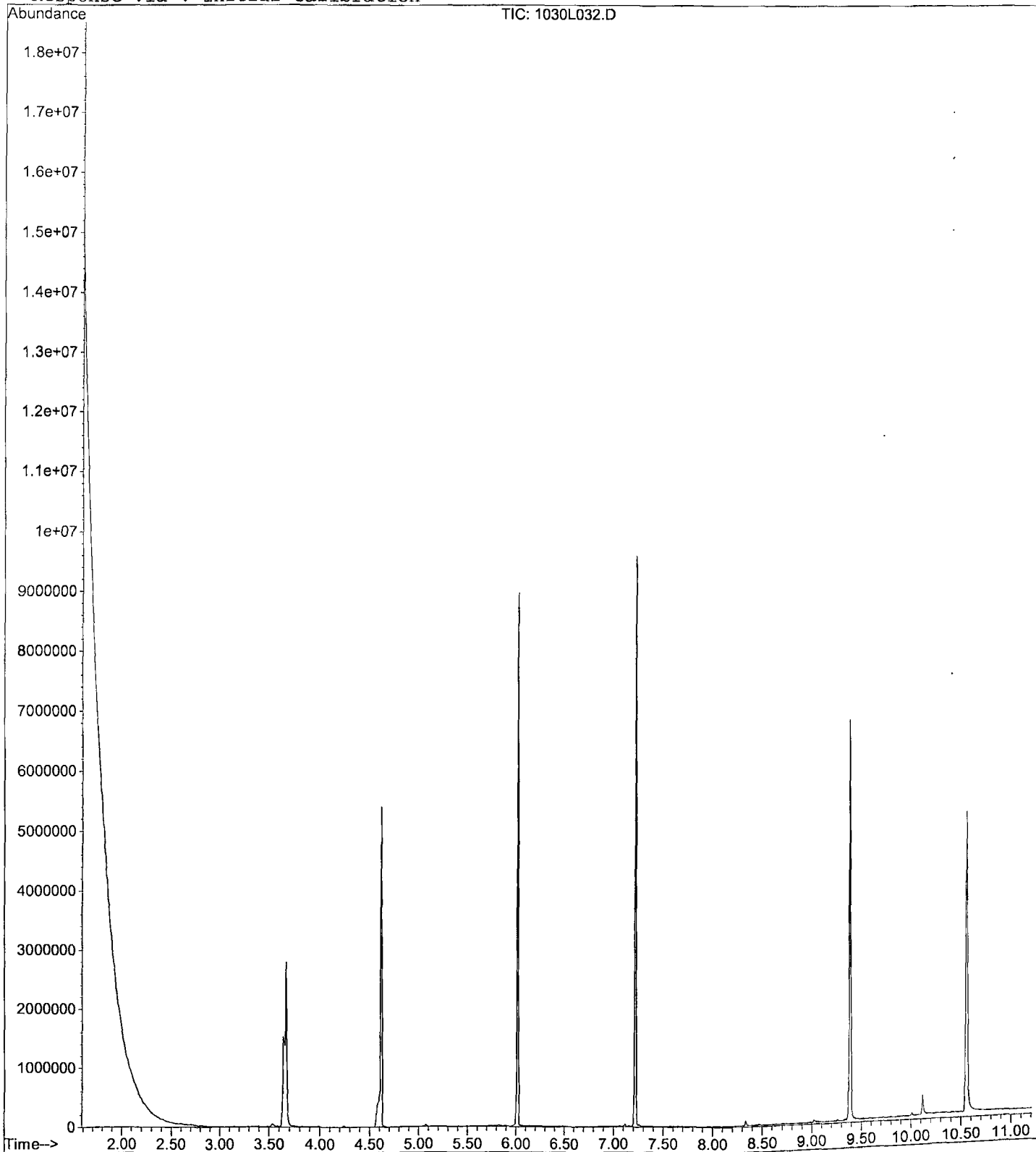
Data File : M:\LINUS\DATA\L191030M\1030L032.D
Acq On : 1 Nov 19 22:02
Sample : BA01664W18 2/500
Misc :

Vial: 32
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L018.D Vial: 18
 Acq On : 1 Nov 19 17:48 Operator: MA
 Sample : 191028A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:54 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	805766	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3426527	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1574221	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2673076	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2103487	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2452804	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

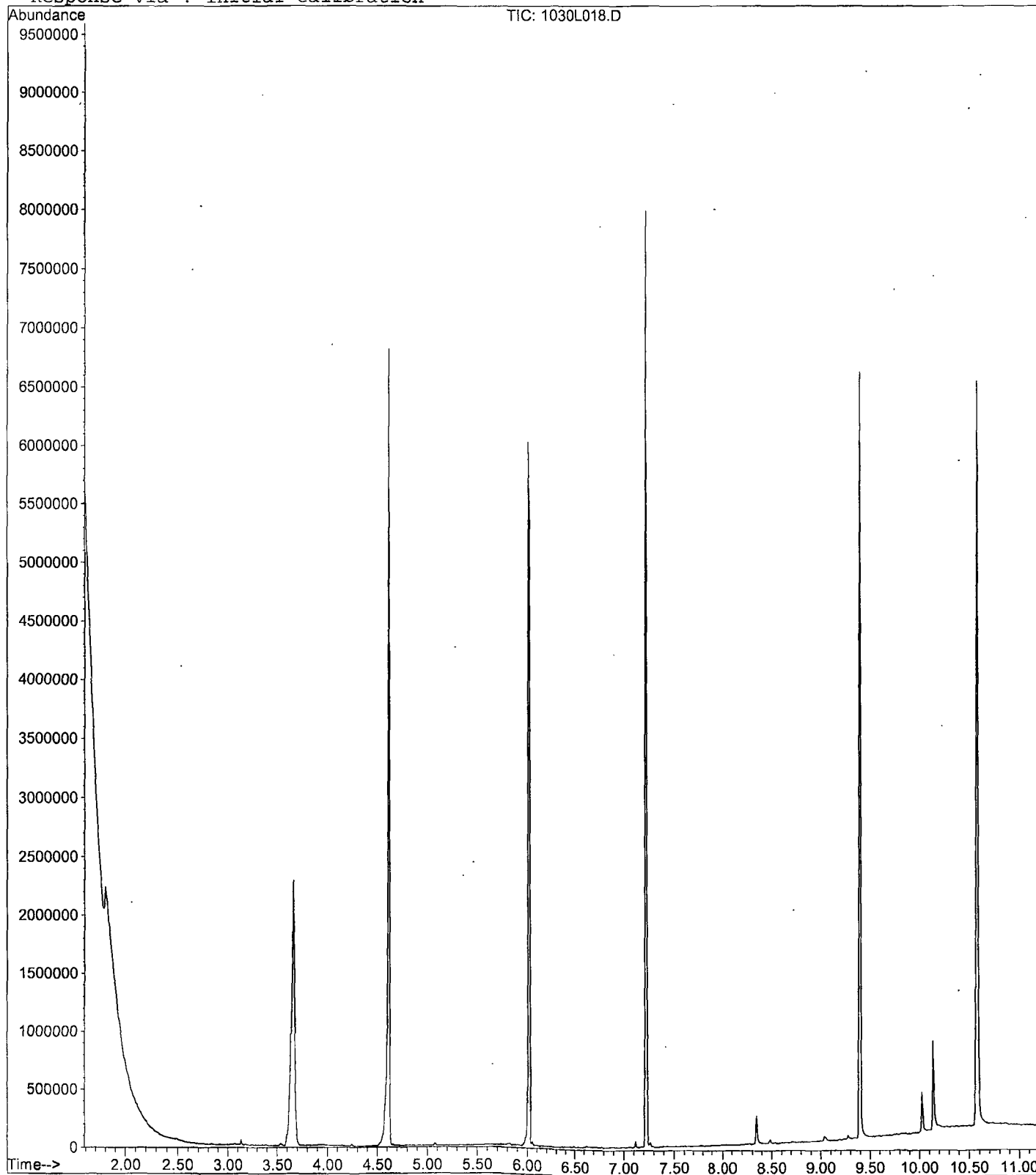
Data File : M:\LINUS\DATA\L191030M\1030L018.D
Acq On : 1 Nov 19 17:48
Sample : 191028A BLK 2/500
Misc :

Vial: 18
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:54 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L017.D Vial: 17
 Acq On : 1 Nov 19 17:30 Operator: MA
 Sample : 191028A LCS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 17:44 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	707122	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	2888555	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1352673	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2422735	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	1805294	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2122418	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.23	45	269371	110.13082	ppb	100

Quantitation Report

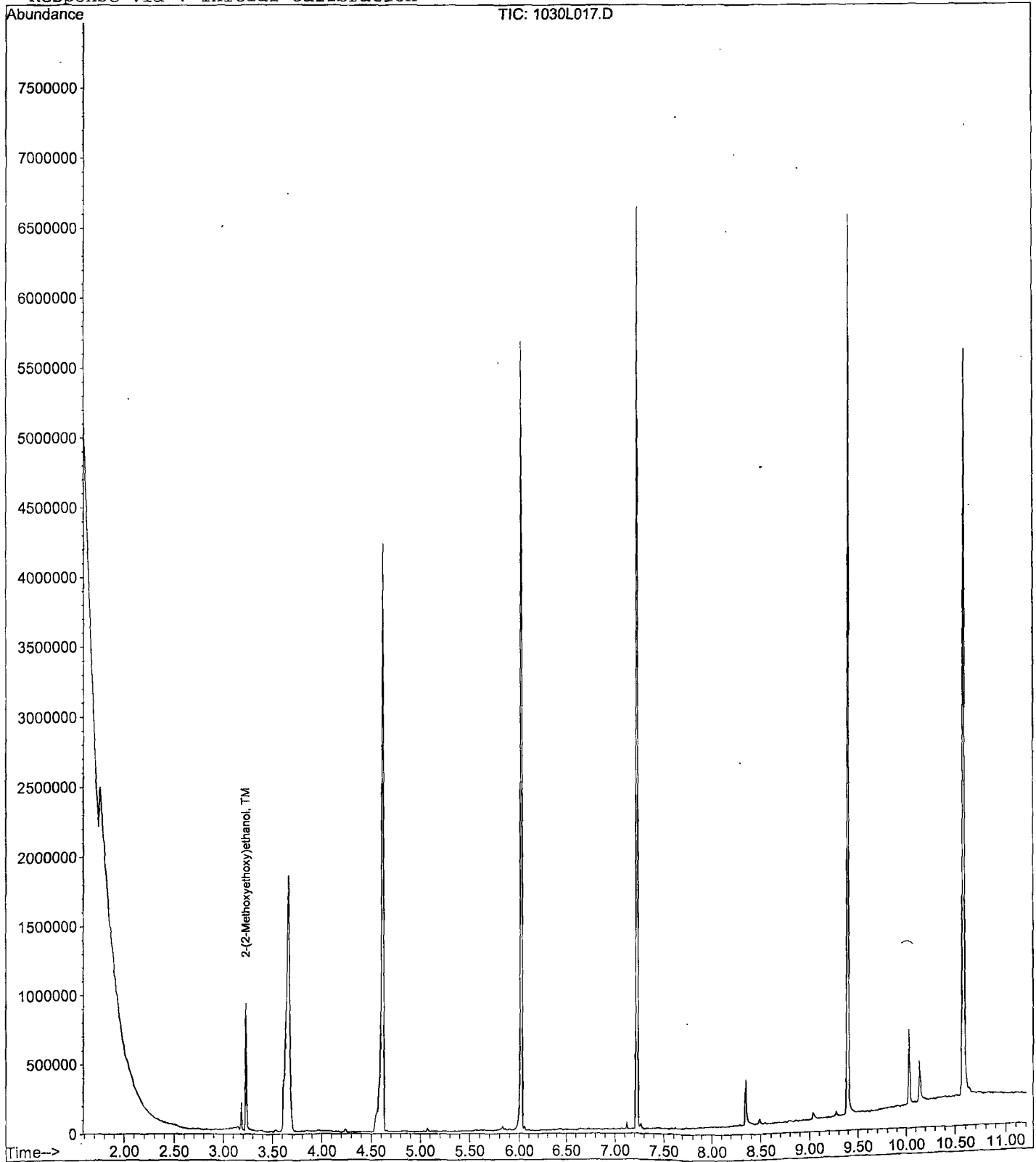
Data File : M:\LINUS\DATA\L191030M\1030L017.D
Acq On : 1 Nov 19 17:30
Sample : 191028A LCS-1 2/500
Misc :

Vial: 17
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 17:44 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L019.D Vial: 19
 Acq On : 1 Nov 19 18:07 Operator: MA
 Sample : 191028A LCSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:54 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	830353	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3497756	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1608718	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2770300	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2134241	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2443458	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.24	45	279043	97.15401	ppb	100

Quantitation Report

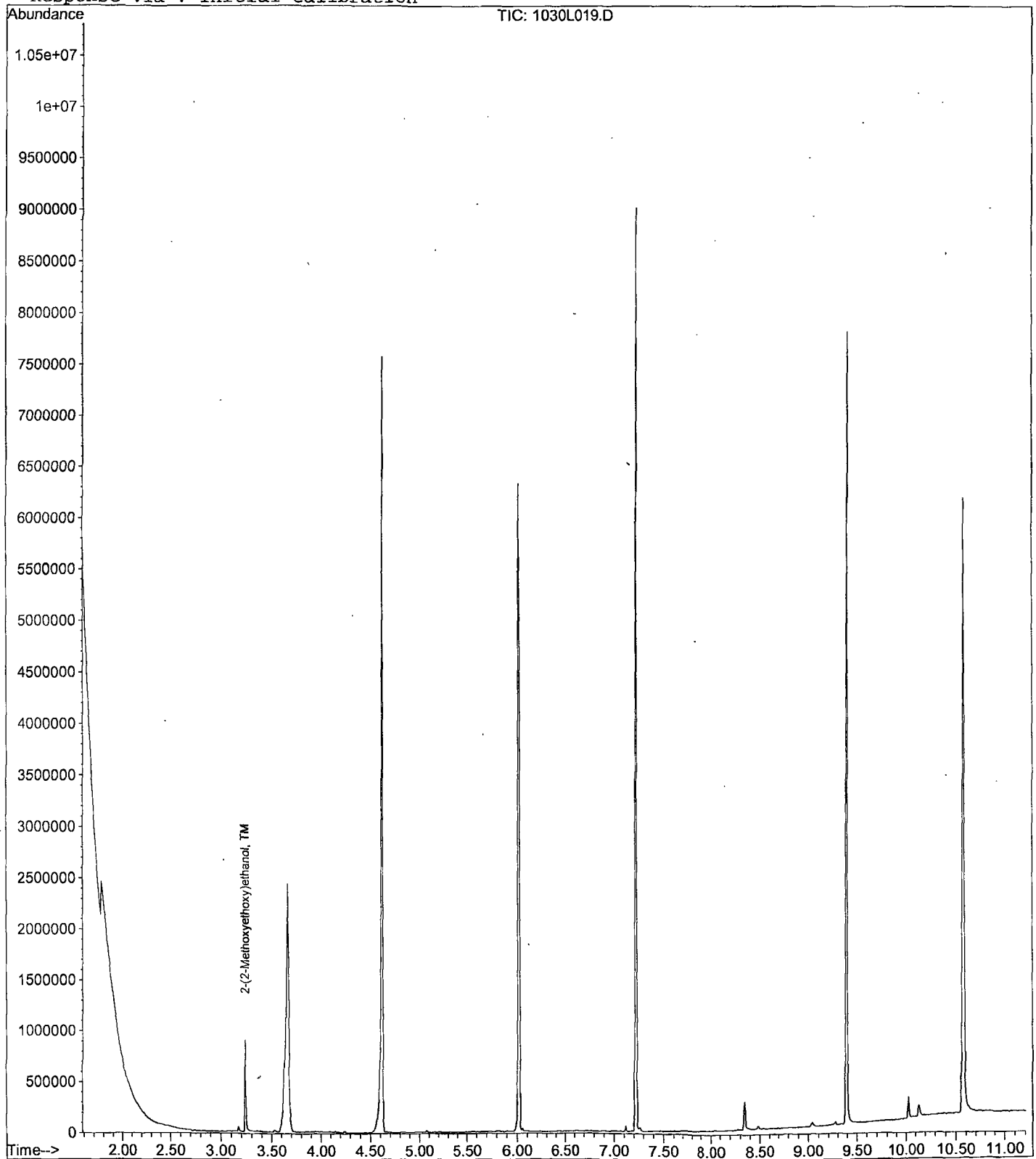
Data File : M:\LINUS\DATA\L191030M\1030L019.D
Acq On : 1 Nov 19 18:07
Sample : 191028A LCSD-1 2/500
Misc :

Vial: 19
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:54 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration

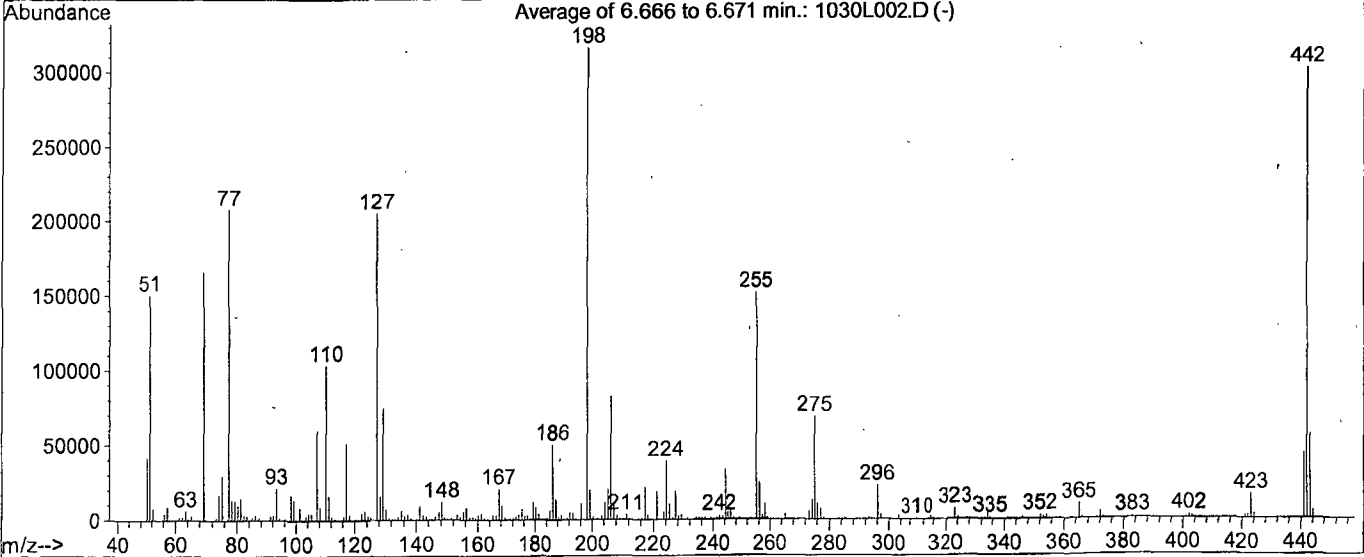
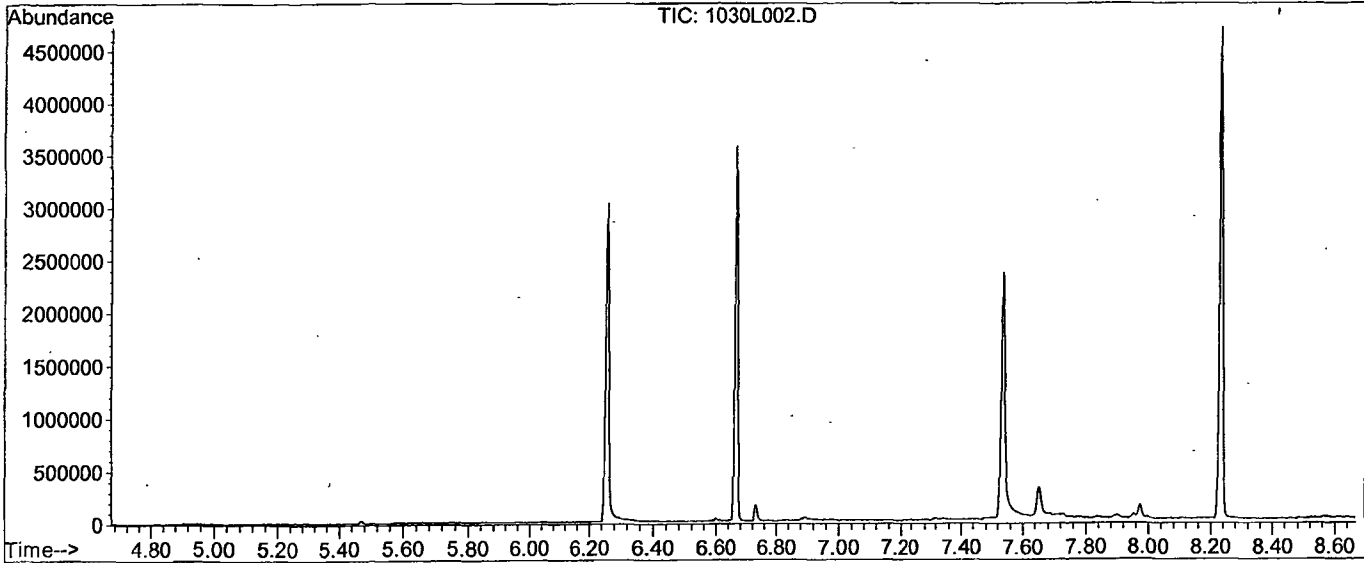


DFTPP

Data File : M:\LINUS\DATA\L191030M\1030L002.D
 Acq On : 31 Oct 19 9:39
 Sample : SV Tune 10/01/19
 Misc :

Vial: 86
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.5	150243	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	922	PASS
127	198	10	80	64.9	205418	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	316523	PASS
199	198	5	9	6.2	19776	PASS
275	198	10	60	21.7	68701	PASS
365	198	1	100	3.2	9986	PASS
441	442	0.01	24	14.5	43648	PASS
442	198	50	500	95.4	301909	PASS
443	442	15	24	18.6	56149	PASS

Data File Name: 1030L002.D
Data File Path: M:\LINUS\DATA\191030M\
Operator: MA
Date Acquired: 31 Oct 2019 09:39
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 86
Instrument Name: Linus

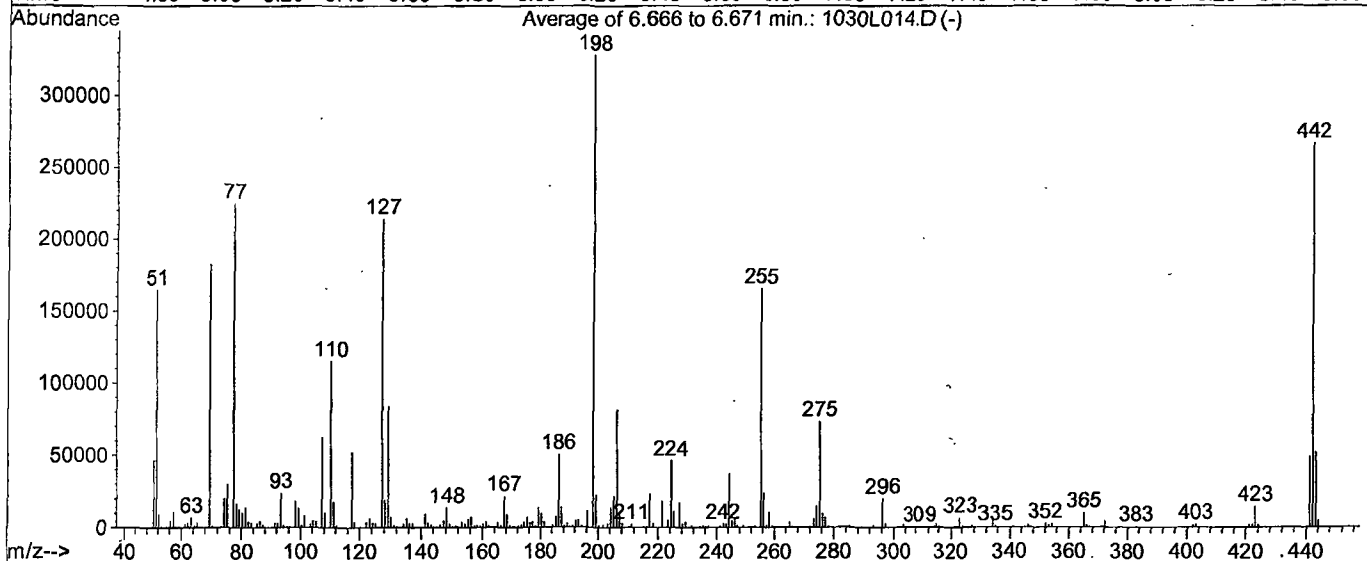
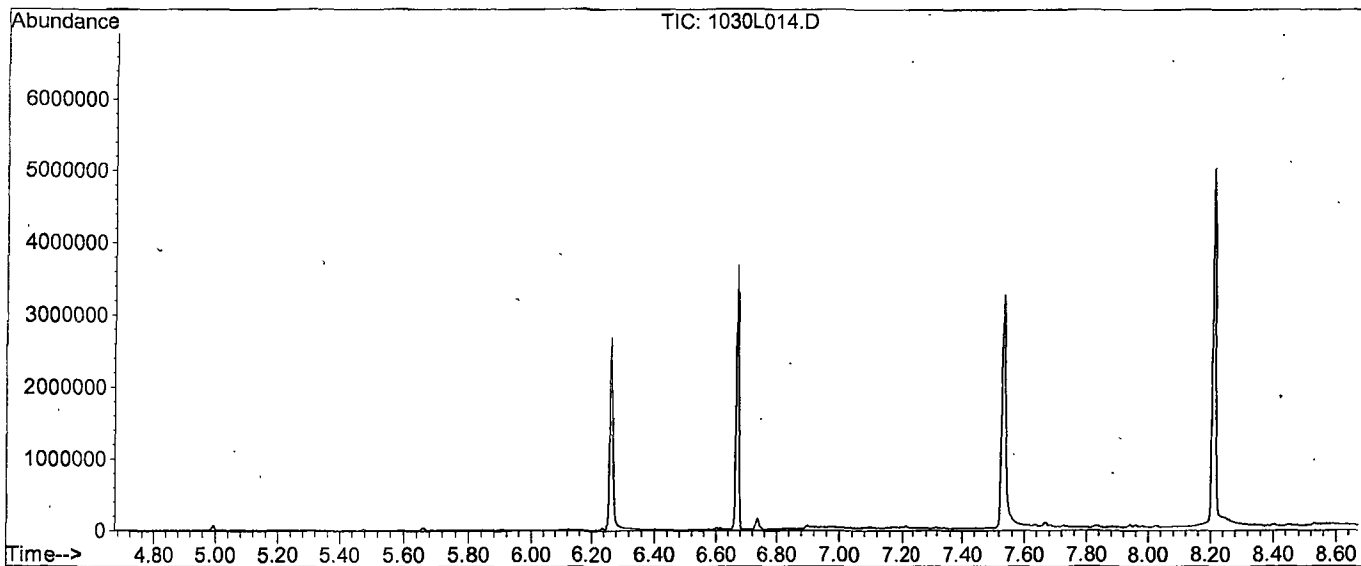
#	Name	Ret Time	Target Response
1)	DDT	8.21	32088400
2)	DDD	7.98	1040940
3)	DDE	8.00	701952

Breakdown 5.15

Data File : M:\LINUS\DATA\L191030M\1030L014.D
 Acq On : 1 Nov 19 15:17
 Sample : SV Tune 10/01/19
 Misc :

Vial: 14
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1630

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.2	164951	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	1364	PASS
127	198	10	80	65.2	214229	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	328597	PASS
199	198	5	9	7.0	22899	PASS
275	198	10	60	22.3	73325	PASS
365	198	1	100	3.1	10112	PASS
441	442	0.01	24	18.5	49301	PASS
442	198	50	500	81.1	266539	PASS
443	442	15	24	19.7	52437	PASS

Data File Name: 1030L014.D
Data File Path: M:\LINUS\DATA\191030M\
Operator: MA
Date Acquired: 1 Nov 19 15:17
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 14
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	38086400
2)	DDD	7.98	224750
3)	DDE	8.00	113996

Breakdown 0.88

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent+ Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Name of
Final

Standard 2MEE Second Source Stock

Prep'd By (Initials) JP

Prep Date 10/28/19

Exp Date 10/28/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	07/31/22	0.1022g	10 mL	MC #56258	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)
0.097ml were spiked in 500ml of water and extracted on 10/28/2019 . Final concentration is 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:	04/29/19 10:50			
Spiked ID 8			Ext. End Time:	04/29/19 16:40			
<p><i>M STD AND SS PREPARATION</i></p> <p><i>HA 5/1/19</i></p>			GC Requires Extract By:		04/30/19 0:00		
			pH1		Water Bath Temp Criteria		
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments	
1	190429A BIK			NA	NA	500	2	7	04/29/19 10:50		
2	190429A LCS-1	0.040	1	NA	NA	500	2	7	04/29/19 10:50		
3	190429A LCSD-1	0.040	1	NA	NA	500	2	7	04/29/19 10:50		
4	AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5	AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6	AZ89958	AZ89958W24		NA	NA	500	2	7	04/29/19 10:50	88687	
7	AZ89959	AZ89959W06		NA	NA	480	2	7	04/29/19 10:50	88687	
8	AZ89961	AZ89961W22		NA	NA	510	2	7	04/29/19 10:50	88687	
9	AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10	AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11	AZ90051	AZ90051W22		NA	NA	500	2	7	04/29/19 10:50	88701	
12	AZ90052	AZ90052W05		NA	NA	505	2	7	04/29/19 10:50	88701	
13	AZ90054	AZ90054W16		NA	NA	510	2	7	04/29/19 10:50	88701	
14	AZ90056	AZ90056W16		NA	NA	510	2	7	04/29/19 10:50	88701	
15	AZ90058	AZ90058W17		NA	NA	500	2	7	04/29/19 10:50	88701	
16	AZ90060	AZ90060W17		NA	NA	505	2	7	04/29/19 10:50	88701	

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: 767 of 1228 Date

Organic Extraction Worksheet







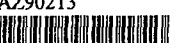



Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:	04/29/19 10:50			
Spiked ID 8			Ext. End Time:	04/29/19 16:40			
			GC Requires Extract By:	04/30/19 0:00			
			pH1			Water Bath Temp Criteria	
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100 			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102 			NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103 			NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105 			NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107 			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109 			NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213 			NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215 			NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD 	1	1	NA	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS 	0.097	2	NA	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: 768 of 1228 Date

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200 uL	Methanol 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol 50uL Lot# 208858	1000 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Name of Final Standard MEE Second Source
 Prep Date 11/01/19
 Exp Date 11/01/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	10/28/19	10/28/20	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	10/28/19	10/28/20	4 uL	*	*	*

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10200ug/mL10/28/19 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/28/19 16:10			
Spiked ID 8			Ext. End Time:	10/30/19 14:30			
			GC Requires Extract By:				
			pH1			Water Bath Temp 1 °C	
			pH2			Water Bath Temp 2 °C	
			pH3			Water Bath Temp 3 °C	

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191028A Blk				NA	NA	500	2	7Y	10/28/19 11:10	
2 191028A LCS-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
3 191028A LCSD-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
4 BA01579 MS-1	BA01579W21	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
5 BA01579 MSD-1	BA01579W18	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
6 BA01579	BA01579W16			NA	NA	500	2	7Y	10/28/19 11:10	90524
7 BA01580	BA01580W06			NA	NA	500	2	7Y	10/28/19 11:10	90524
8 BA01582	BA01582W12			NA	NA	500	2	7Y	10/28/19 11:10	90524
9 BA01651	BA01651W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
10 BA01652	BA01652W07			NA	NA	500	2	7Y	10/28/19 11:10	90532
11 BA01654	BA01654W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
12 BA01656	BA01656W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
13 BA01658	BA01658W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
14 BA01660	BA01660W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
15 BA01662	BA01662W17			NA	NA	500	2	7Y	10/28/19 11:10	90532
16 BA01664	BA01664W18			NA	NA	500	2	7Y	10/28/19 11:10	90532

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	10/31/19
Time	08:03
Refrigerator	Hobard

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By: MA 771 of 122 Date 11/6/19

Organic Extraction Worksheet








Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10200ug/mL 10/28/19 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/28/19 16:10			
Spiked ID 8			Ext. End Time:	10/30/19 14:30			
			GC Requires Extract By:				
			pH1		Water Bath Temp 1 °C		
			pH2		Water Bath Temp 2 °C		
			pH3		Water Bath Temp 3 °C		

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA01775 	BA01775W07		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
18	BA01777 	BA01777W08		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
19	BA01779 	BA01779W08		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
20	BA01781 	BA01781W09		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
21	BA01782 	BA01782W07		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
22	BA01784 	BA01784W13		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
23	SS 	0.097	2	NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	10/31/19
Time	08:03
Refrigerator	Hobard

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By: MA 2 of 1228 Date 11/6/19

Injection Log

Directory: M:\LINUS\DATA\L191030M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
86	1030L002.D	1	SV Tune 10/01/19		31 Oct 19 9:39
4	1030L004.D	1	50 2MEE 4/30/19		31 Oct 19 11:50
5	1030L005.D	1	100 2MEE 4/30/19		31 Oct 19 12:10
6	1030L006.D	1	200 2MEE 4/30/19		31 Oct 19 12:29
8	1030L008.D	1	500 2MEE 4/30/19		31 Oct 19 13:07
9	1030L009.D	1	600 2MEE 4/30/19		31 Oct 19 13:25
10	1030L010.D	1	800 2MEE 4/30/19		31 Oct 19 13:43
11	1030L011.D	1	1000 2MEE 4/30/19		31 Oct 19 14:02
14	1030L014.D	1	SV Tune 10/01/19		1 Nov 19 15:17
15	1030L015.D	1	500 2MEE 4/30/19		1 Nov 19 16:15
16	1030L016.D	1	SS 2MEE 11/1/19		1 Nov 19 17:11
17	1030L017.D	1	191028A LCS-1 2/500		1 Nov 19 17:30
18	1030L018.D	1	191028A BLK 2/500		1 Nov 19 17:48
19	1030L019.D	1	191028A LCSD-1 2/500		1 Nov 19 18:07
25	1030L025.D	1	BA01651W11 2/500		1 Nov 19 19:56
26	1030L026.D	1	BA01652W07 2/500		1 Nov 19 20:14
27	1030L027.D	1	BA01654W10 2/500		1 Nov 19 20:32
28	1030L028.D	1	BA01656W10 2/500		1 Nov 19 20:50
29	1030L029.D	1	BA01658W11 2/500		1 Nov 19 21:08
30	1030L030.D	1	BA01660W10 2/500		1 Nov 19 21:26
31	1030L031.D	1	BA01662W17 2/500		1 Nov 19 21:44
32	1030L032.D	1	BA01664W18 2/500		1 Nov 19 22:02
39	1030L039.D	1	500 2MEE 4/30/19		2 Nov 19 00:07

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19 _____
Instrument: Loki _____

Initials: _____

1023L10.D 1023L11.D 1023L12.D 1023L13.D 1023L14.D 1023L15.D 1023L16.D 1023L17.D 1023L18.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I	Fluorobenzene (IS)															
2	TM	Chlorotrifluoroethene												TM			
3	TML	Dichlorodifluoromethane		0.0880	0.0722	0.0621	0.0589	0.0578	0.0587	0.0535	0.0579	0.06	18	TML	0.999		
4	TML	Freon 114		0.2235	0.1320	0.1596	0.1211	0.1160	0.1136	0.1058	0.0986	0.13	30	TML	0.999		
5	TM**L	Chloromethane		0.3269	0.2689	0.2351	0.1900	0.1718	0.1659	0.1537	0.1613	0.21	30	TM**L	0.999		
6	TM*	Vinyl chloride		0.2111	0.1934	0.2183	0.1818	0.1816	0.1723	0.1607	0.1521	0.18	13	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane												TM			
8	TML	Bromomethane		0.4022	0.2674	0.2871	0.2214	0.2217				0.28	26	TML	0.998		
9	TML	Chloroethane		0.2226	0.1493	0.1668	0.1467	0.1441				0.17	20	TML	0.999		
10	TM	Dichlorofluoromethane		0.4146	0.4236	0.3744	0.3169	0.3288	0.3132	0.3060		0.35	14	TM			
11	TM	Trichlorofluoromethane		0.2175	0.2371	0.2201	0.2098	0.2136	0.2076	0.1807	0.2000	0.21	7.7	TM			
12	TM	Diethyl ether												TM			
13	TM	Acrolein		0.0193	0.0187	0.0186	0.0192	0.0179	0.0166	0.0182	0.0187	0.02	4.7	TM			
14	TML	Acetone				0.1568	0.0839	0.0610	0.0576	0.0518	0.0471	0.08	54	TML	0.998		
15	TM	Freon-113		0.2129	0.1684	0.1821	0.1567	0.1517	0.1496	0.1388		0.17	15	TM			
16	TM*L	1,1-DCE		0.2193	0.1697	0.2015	0.1373	0.1532	0.1409	0.1380	0.1293	0.16	21	TM*L	0.999		
17	TML	t-Butanol	0.0207	0.0169	0.0148	0.0147	0.0155	0.0159	0.0166			0.02	12	TML	0.994		
18	TM	2-Propanol												TM			
19	TM	Acetonitrile		0.0345	0.0305	0.0308	0.0281	0.0275	0.0265	0.0245	0.0227	0.03	13	TM			
20	TML	Methyl Acetate		0.1918	0.1630	0.1520	0.1677	0.1360	0.1291	0.1270		0.15	16	TML	0.999		
21	TML	Iodomethane		0.0633	0.0442	0.0565	0.0645	0.0943	0.1203	0.1410		0.08	43	TML	0.991		
22	TML	Acrylonitrile			0.1295	0.0962	0.0850	0.0765	0.0740	0.0691	0.0609	0.08	27	TML	0.997		
23	TML	Methylene chloride		0.3582	0.3060	0.2774	0.2024	0.1881	0.1817	0.1685	0.1564	0.23	32	TML	0.999		
24	TML	Carbon disulfide		0.5002	0.3730	0.4086	0.3087	0.3166				0.38	20	TML	0.993		
25	TM	Methyl t-butyl ether (MtBE)		0.4786	0.3967	0.3992	0.3604	0.3441	0.3351	0.3306	0.3154	0.37	14	TM			
26	TML	Trans-1,2-DCE		0.2484	0.2082	0.1954	0.1577	0.1742	0.1697	0.1591	0.1525	0.18	18	TML	0.999		
27	TM	Diisopropyl Ether		0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383	0.34	8.0	TM			
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane												TM**			
29	TM**	1,1-DCA		0.2844	0.2574	0.2790	0.2378	0.2571	0.2391	0.2994	0.2647	0.26	8.2	TM**			
30	TM	Vinyl Acetate		0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383	0.34	8.0	TM			
31	TM	Ethyl tert Butyl Ether		0.1493	0.1248	0.1340	0.1003	0.1124	0.1123	0.1133	0.1248	0.12	13	TM			
32	TML	MEK (2-Butanone)				0.0324	0.0165	0.0133	0.0143	0.0150	0.0162	0.02	40	TML	0.998		
33	TML	Cis-1,2-DCE		0.2289	0.1640	0.1557	0.1479	0.1420	0.1443	0.1410	0.1359	0.16	19	TML	1.000		
34	TM	2,2-Dichloropropane		0.1966	0.2302	0.2044	0.1848	0.1862	0.1877	0.1814	0.1715	0.19	9.3	TM			
35	TM	2-Methylpentane												TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19 _____
Instrument: Loki _____

Initials: _____

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TM	3-Methylpentane													TM			
37	TM*	Chloroform		0.3171	0.2945	0.3006	0.2845	0.2703	0.2696	0.2539	0.2381		0.28	9.3	TM*			
38	TM	Bromochloromethane		0.1089	0.1072	0.0954	0.0922	0.0913	0.0848	0.0866	0.0760		0.09	12	TM			
39	S	Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768		0.31	7.4	S			
40	TM	1,1,1-TCA		0.2466	0.2571	0.2752	0.2137	0.2437	0.2350	0.2253	0.2163		0.24	8.8	TM			
41	TML	Cyclohexane			0.1265	0.1151	0.0811	0.0861	0.0819	0.0824	0.0858		0.09	20	TML	1.000		
42	TM	1,1-Dichloropropene		0.1271	0.1720	0.1516	0.1311	0.1322	0.1431	0.1390	0.1460		0.14	10	TM			
43	TM	2,2,4-Trimethylpentane		0.2046	0.2496	0.2457	0.2105	0.2253	0.2404	0.2404	0.2627		0.23	8.5	TM			
44	S	1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961		0.33	8.5	S			
45	TM	Carbon Tetrachloride		0.1604	0.2305	0.2409	0.2229	0.2234	0.2174	0.2024	0.1959		0.21	12	TM			
46	TM	Tert Amyl Methyl Ether			0.0817	0.0931	0.0787	0.0756	0.0815	0.0866	0.1009		0.09	10	TM			
47	TM	Methylcyclopentane													TM			
48	TM	1,2-DCA		0.2398	0.2085	0.2239	0.1874	0.2036	0.1943	0.1905	0.1767		0.20	10	TM			
49	TM	Benzene		0.5930	0.5529	0.5115	0.4473	0.4716	0.4850	0.4808	0.4617		0.50	9.9	TM			
50	TM	TCE		0.1913	0.1728	0.1589	0.1509	0.1623	0.1483	0.1483	0.1448		0.16	9.9	TM			
51	TM	2-Pentanone		0.0512	0.0511	0.0510	0.0526	0.0503	0.0527	0.0539	0.0575		0.05	4.4	TM			
52	TM*	1,2-Dichloropropane		0.1278	0.1222	0.1579	0.1180	0.1225	0.1257	0.1254	0.1173		0.13	10	TM*			
53	TM	Bromodichloromethane		0.1995	0.2191	0.2118	0.1944	0.2044	0.1957	0.1945	0.1815		0.20	5.8	TM			
54	TM	Methyl Cyclohexane		0.1535	0.1267	0.1519	0.1057	0.1210	0.1196	0.1334	0.1436		0.13	13	TM			
55	TM	Dibromomethane		0.0929	0.1302	0.0969	0.1012	0.0922	0.0950	0.0948	0.0869		0.10	14	TM			
56	TML	2-Chloroethyl vinyl ether													TML			*
57	TML	MIBK (methyl isobutyl ketone)		0.0827	0.0922	0.0644	0.0509	0.0607	0.0597	0.0691	0.0689		0.07	19	TML	0.995		
58	TM	1-Bromo-2-chloroethane		0.1531	0.1577	0.1587	0.1593	0.1618	0.1594	0.1599	0.1486		0.16	2.8	TM			
59	TM	Cis-1,3-Dichloropropene		0.1626	0.1909	0.1585	0.1541	0.1634	0.1537	0.1600	0.1615		0.16	7.2	TM			
60	TM*	Toluene		0.4777	0.4622	0.4420	0.4535	0.4757	0.5055	0.5113	0.5039		0.48	5.4	TM*			
61	TM	Trans-1,3-Dichloropropene		0.1247	0.1541	0.1332	0.1179	0.1424	0.1527	0.1562	0.1580		0.14	11	TM			
62	TM	1,1,2-TCA		0.1049	0.1057	0.0925	0.1049	0.1054	0.1082	0.1020	0.0943		0.10	5.6	TM			
63	TML	2-Hexanone			0.0449	0.0200	0.0243	0.0181	0.0289	0.0248	0.0273		0.03	33	TML	0.997		
64	I	Chlorobenzene-D5 (IS)																
65	S	Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617		0.91	9.0	S			
66	TM	1,2-EDB		0.1267	0.1287	0.1339	0.1202	0.1334	0.1289	0.1357	0.1265		0.13	3.9	TM			
67	TM	Tetrachloroethene		0.2557	0.1968	0.2027	0.1752	0.1783	0.1867	0.1773	0.1713		0.19	14	TM			
68	TM	1-Chlorohexane		0.1059	0.1087	0.1181	0.1046	0.1150	0.1196	0.1311	0.1410		0.12	11	TM			
69	TML	1,1,1,2-Tetrachloroethane		0.2391	0.2464	0.1817	0.1760	0.1779	0.1732	0.1720	0.1590		0.19	17	TML	0.999		
70	TML	m&p-Xylene		0.3600	0.2941	0.3461	0.3123	0.3629	0.4195	0.4559	0.4632		0.38	17	TML	1.000		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19
Instrument: Loki

Initials: _____

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
71	TM o-Xylene		0.1571	0.1849	0.1982	0.1739	0.1820	0.1967	0.2218	0.2292		0.19	12	TM		
72	TML Styrene		0.2167	0.2270	0.2610	0.2391	0.2723	0.3346	0.3866	0.3958		0.29	24	TML	0.999	
73	S 4-Bromofluorobenzene(S)	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S		
74	TM 1,3-Dichloropropane		0.2068	0.2345	0.2113	0.1823	0.1930	0.2014	0.2026	0.1844		0.20	8.3	TM		
75	TM Dibromochloromethane		0.1931	0.2063	0.2141	0.1782	0.1874	0.1742	0.1861	0.1684		0.19	8.3	TM		
76	TM** Chlorobenzene		0.4937	0.4361	0.4383	0.3830	0.3901	0.3885	0.3924	0.3720		0.41	10.0	TM**		
77	TM* Ethylbenzene		0.4407	0.4204	0.4803	0.4285	0.4625	0.5274	0.5605	0.5622		0.49	12	TM*		
78	TM** Bromoform		0.1323	0.1359	0.1491	0.1276	0.1372	0.1397	0.1446	0.1273		0.14	5.6	TM**		
79	I 1,4-Dichlorobenzene-D (IS)															
80	TM Isopropylbenzene		0.5856	0.5289	0.5018	0.4318	0.4759	0.5078	0.5625	0.5703		0.52	10.0	TM		
81	TM**L 1,1,2,2-Tetrachloroethane		0.4746	0.4405	0.4427	0.3542	0.3524	0.2996	0.2969	0.2466		0.36	23	TM**L	0.994	
82	TML 1,2,3-Trichloropropane		0.1731	0.0943	0.1307	0.1188	0.1225	0.1007	0.1076			0.12	22	TML	0.997	
83	TM t-1,4-Dichloro-2-Butene				0.0357	0.0337	0.0404	0.0363	0.0395	0.0354		0.04	7.0	TM		
84	TM Bromobenzene		0.3492	0.4295	0.3882	0.3490	0.3438	0.3176	0.3322	0.3026		0.35	11	TM		
85	TML n-Propylbenzene		0.7558	0.4687	0.9138	0.9209	0.9909	0.9770	1.108	1.093		0.90	23	TML	1.000	
86	TML 4-Ethyltoluene		0.6774	0.6404	0.6417	0.6595	0.7976	0.8617	1.001	0.9857		0.78	19	TML	0.999	
87	TM 2-Chlorotoluene		0.3654	0.4185	0.4066	0.3802	0.3612	0.4006	0.4365	0.4055		0.40	6.6	TM		
88	TML 1,3,5-Trimethylbenzene		0.6675	0.6950	0.6313	0.6132	0.7414	0.8323	0.9454	0.8934		0.75	17	TML	0.999	
89	TM 4-Chlorotoluene		0.1313	0.1267	0.1551	0.1280	0.1576	0.1656	0.1728	0.1739		0.15	13	TM		
90	TM Tert-Butylbenzene		0.5705	0.6573	0.6077	0.6181	0.6143	0.7336	0.7011	0.7264		0.65	9.3	TM		
91	TML 1,2,4-Trimethylbenzene		0.6123	0.6140	0.5889	0.5538	0.6582	0.7168	0.8549	0.8602		0.68	17	TML	0.999	
92	TM Sec-Butylbenzene		0.8267	0.7982	0.8049	0.7524	0.8609	0.9128	1.038	1.045		0.88	13	TM		
93	TM p-Isopropyltoluene		0.9336	0.8116	0.8559	0.7340	0.8567	0.8976	1.007	1.010		0.89	11	TM		
94	TM Benzyl Chloride		0.2231	0.2759	0.2770	0.2077	0.2008	0.1988	0.1986	0.2301		0.23	15	TM		
95	TM 1,3-DCB		0.5885	0.5277	0.6171	0.5066	0.5870	0.5493	0.6076	0.5638		0.57	6.8	TM		
96	TM 1,4-DCB		0.7396	0.8267	0.7799	0.6052	0.6496	0.6051	0.6618	0.6213		0.69	12	TM		
97	TM n-Butylbenzene		0.5281	0.5470	0.5277	0.4704	0.5476	0.5675	0.6752	0.7301		0.57	15	TM		
98	TM 1,2-DCB		0.7204	0.5796	0.6249	0.5247	0.5454	0.4927	0.5441	0.5382		0.57	13	TM		
99	TML Hexachloroethane		0.0744	0.1824	0.2215	0.1831	0.1807	0.1764	0.1662	0.1948		0.17	25	TML	0.997	
100	TML 1,2-Dibromo-3-chloropropane			0.0721	0.0466	0.0398	0.0441	0.0409	0.0432	0.0441		0.05	24	TML	1.000	
101	TMQ 1,2,4-Trichlorobenzene		0.1046	0.1759	0.1809	0.1581	0.1574	0.1822	0.2252	0.2945		0.18	30	TMQ	1.000	
102	TML Hexachlorobutadiene		0.0720	0.0845	0.0886	0.0483	0.0440	0.0405	0.0485	0.0553		0.06	31	TML	0.995	
103	TMQ Naphthalene		0.2202	0.3782	0.2056	0.2022	0.2403	0.2494	0.3565	0.5141		0.30	37	TMQ	1.000	
104	TML 1,2,3-Trichlorobenzene			0.1412	0.1020	0.0878	0.0909	0.0894	0.1135	0.1350		0.11	20	TML	0.994	
105																

Data File : M:\LOKI\DATA\191023\1023L10.D
 Acq On : 23 Oct 19 19:30
 Sample : 0.3ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 7:41 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 08:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	199488	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	15394	5.6187	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.476%	
44) 1,2-DCA-D4(S)	4.95	65	17619	5.8432	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.372%	
65) Toluene-D8(S)	7.38	98	39179	5.2655	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.064%	
73) 4-Bromofluorobenzene(S)	10.28	95	12477	4.4654	ppb	0.00
Spiked Amount	25.000		Recovery	=	17.860%	
Target Compounds						
17) t-Butanol	2.42	59	1870	41.0927	ppb	Qvalue # 80

Quantitation Report

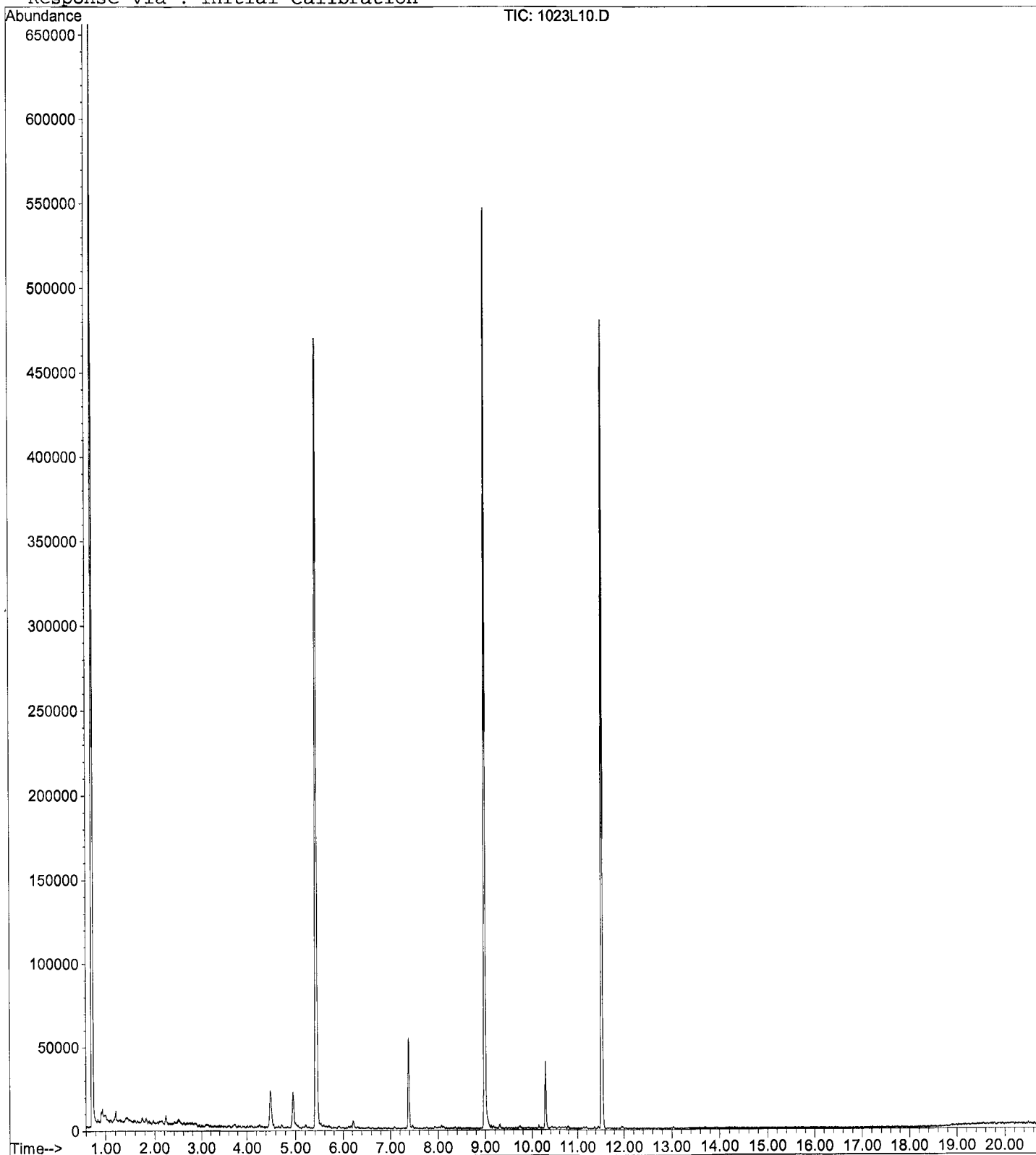
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 7:41 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211584	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Dibromofluoromethane(S)	4.50	111	15575	5.6217	ppb	0.00
Spiked Amount 25.000			Recovery =	22.488%		
44) 1,2-DCA-D4(S)	4.95	65	16291	5.4727	ppb	0.00
Spiked Amount 25.000			Recovery =	21.892%		
65) Toluene-D8(S)	7.38	98	37595	4.8832	ppb	0.00
Spiked Amount 25.000			Recovery =	19.532%		
73) 4-Bromofluorobenzene(S)	10.29	95	13224	4.8495	ppb	0.00
Spiked Amount 25.000			Recovery =	19.396%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	396	0.8267	ppb	# 49
4) Freon 114	0.91	85	1006	-0.3730	ppb	75
5) Chloromethane	0.94	50	1471	0.4476	ppb	# 87
6) Vinyl chloride	1.01	62	950	0.5739	ppb	# 78
8) Bromomethane	1.21	94	1810	0.5200	ppb	83
9) Chloroethane	1.28	64	1002	0.5593	ppb	96
10) Dichlorofluoromethane	1.41	67	1866	0.5857	ppb	86
11) Trichlorofluoromethane	1.45	103	979	0.5160	ppb	77
13) Acrolein	1.75	56	4338	26.1779	ppb	# 69
14) Acetone	1.88	43	2059	0.3949	ppb	# 87
15) Freon-113	1.83	101	958	0.6422	ppb	# 82
16) 1,1-DCE	1.82	96	987	-0.2621	ppb	# 68
17) t-Butanol	2.41	59	3809	27.3883	ppb	# 86
19) Acetonitrile	2.11	41	7685	30.3488	ppb	# 76
20) Methyl Acetate	2.17	43	1280	0.4625	ppb	# 47
21) Iodomethane	1.93	142	285	1.9340	ppb	# 42
22) Acrylonitrile	2.48	53	200	-2.2748	ppb	# 4
23) Methylene chloride	2.23	84	1612	-0.6710	ppb	99
24) Carbon disulfide	1.97	76	2251	0.4913	ppb	# 77
25) Methyl t-butyl ether (MtBE)	2.52	73	2154	0.6468	ppb	# 90
26) Trans-1,2-DCE	2.50	96	1118	-0.0973	ppb	# 85
27) Diisopropyl Ether	3.11	45	1581	0.5168	ppb	98
29) 1,1-DCA	2.95	63	1280	0.5369	ppb	# 76
30) Vinyl Acetate	3.11	45	1581	0.5168	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	672	0.6151	ppb	# 82
32) MEK (2-Butanone)	3.85	43	242	2.3682	ppb	# 40
33) Cis-1,2-DCE	3.73	96	1030	0.2595	ppb	# 72
34) 2,2-Dichloropropane	3.72	77	885	0.5098	ppb	# 76
37) Chloroform	4.27	83	1427	0.5691	ppb	88
38) Bromochloromethane	4.09	128	490	0.5866	ppb	# 65
40) 1,1,1-TCA	4.49	97	1110	0.5157	ppb	87
41) Cyclohexane	4.54	41	745	1.0595	ppb	# 29
42) 1,1-Dichloropropene	4.75	75	572	0.4451	ppb	# 79
43) 2,2,4-Trimethylpentane	5.20	57	921	0.4356	ppb	# 43
45) Carbon Tetrachloride	4.72	117	722	0.3788	ppb	95
46) Tert Amyl Methyl Ether	5.28	73	161	0.2093	ppb	# 59
48) 1,2-DCA	5.06	62	1079	0.5903	ppb	# 84
49) Benzene	5.02	78	2669	0.5925	ppb	# 87
50) TCE	5.90	130	861	0.5990	ppb	# 77

(#) = qualifier out of range (m) = manual integration
 1023L11.D L1023W.M Thu Nov 21 08:11:41 2019

Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	11517	24.3646	ppb	94
52) 1,2-Dichloropropane	6.17	63	575	0.5027	ppb #	82
53) Bromodichloromethane	6.54	83	898	0.4985	ppb #	82
54) Methyl Cyclohexane	6.12	83	691	0.5819	ppb	88
55) Dibromomethane	6.30	93	418	0.4701	ppb #	36
57) MIBK (methyl isobutyl ket	7.32	43	372	0.5667	ppb #	79
58) 1-Bromo-2-chloroethane	6.87	63	689	0.4866	ppb	93
59) Cis-1,3-Dichloropropene	7.09	75	732	0.4986	ppb #	83
60) Toluene	7.46	91	2150	0.4987	ppb	80
61) Trans-1,3-Dichloropropene	7.74	75	561	0.4378	ppb #	71
62) 1,1,2-TCA	7.93	83	472	0.5129	ppb	97
63) 2-Hexanone	8.27	43	86	1.2587	ppb #	26
66) 1,2-EDB	8.46	107	536	0.4900	ppb #	64
67) Tetrachloroethene	8.07	166	1082	0.6624	ppb #	80
68) 1-Chlorohexane	9.06	91	448	0.4486	ppb #	73
69) 1,1,1,2-Tetrachloroethane	9.12	131	1012	-0.2107	ppb	98
70) m&p-Xylene	9.30	91	3047	2.9514	ppb	92
71) o-Xylene	9.72	106	665	0.4072	ppb	78
72) Styrene	9.75	104	917	1.8097	ppb #	73
74) 1,3-Dichloropropane	8.12	76	875	0.5117	ppb	91
75) Dibromochloromethane	8.36	129	817	0.5122	ppb	96
76) Chlorobenzene	9.01	112	2089	0.5995	ppb	94
77) Ethylbenzene	9.17	91	1865	0.4541	ppb	94
78) Bromoform	9.90	173	560	0.4840	ppb #	23
80) Isopropylbenzene	10.15	105	1008	0.5625	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	817	-1.8038	ppb #	89
82) 1,2,3-Trichloropropane	10.49	110	298	0.4367	ppb	90
84) Bromobenzene	10.43	156	601	0.4966	ppb	97
85) n-Propylbenzene	10.59	91	1301	1.0532	ppb	88
86) 4-Ethyltoluene	10.72	105	1166	1.4159	ppb #	80
87) 2-Chlorotoluene	10.66	91	629	0.4604	ppb	88
88) 1,3,5-Trimethylbenzene	10.80	105	1149	0.4436	ppb #	73
89) 4-Chlorotoluene	10.78	126	226	0.4337	ppb #	29
90) Tert-Butylbenzene	11.13	119	982	0.4364	ppb	87
91) 1,2,4-Trimethylbenzene	11.19	105	1054	1.6679	ppb	86
92) Sec-Butylbenzene	11.37	105	1423	0.4698	ppb	100
93) p-Isopropyltoluene	11.55	119	1607	0.5255	ppb #	78
94) Benzyl Chloride	11.71	91	384	0.4925	ppb #	61
95) 1,3-DCB	11.46	146	1013	0.5177	ppb #	82
96) 1,4-DCB	11.56	146	1273	0.5389	ppb	89
97) n-Butylbenzene	11.98	91	909	0.4599	ppb #	81
98) 1,2-DCB	11.95	146	1240	0.6305	ppb #	85
99) Hexachloroethane	12.23	201	128	1.0853	ppb #	89
101) 1,2,4-Trichlorobenzene	13.69	180	180	0.8111	ppb #	48
102) Hexachlorobutadiene	13.90	223	124	1.8356	ppb #	58
103) Naphthalene	13.95	128	379	1.0011	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	250	3.3075	ppb #	73

(#) = qualifier out of range (m) = manual integration
 1023L11.D L1023W.M Thu Nov 21 08:11:42 2019

Quantitation Report

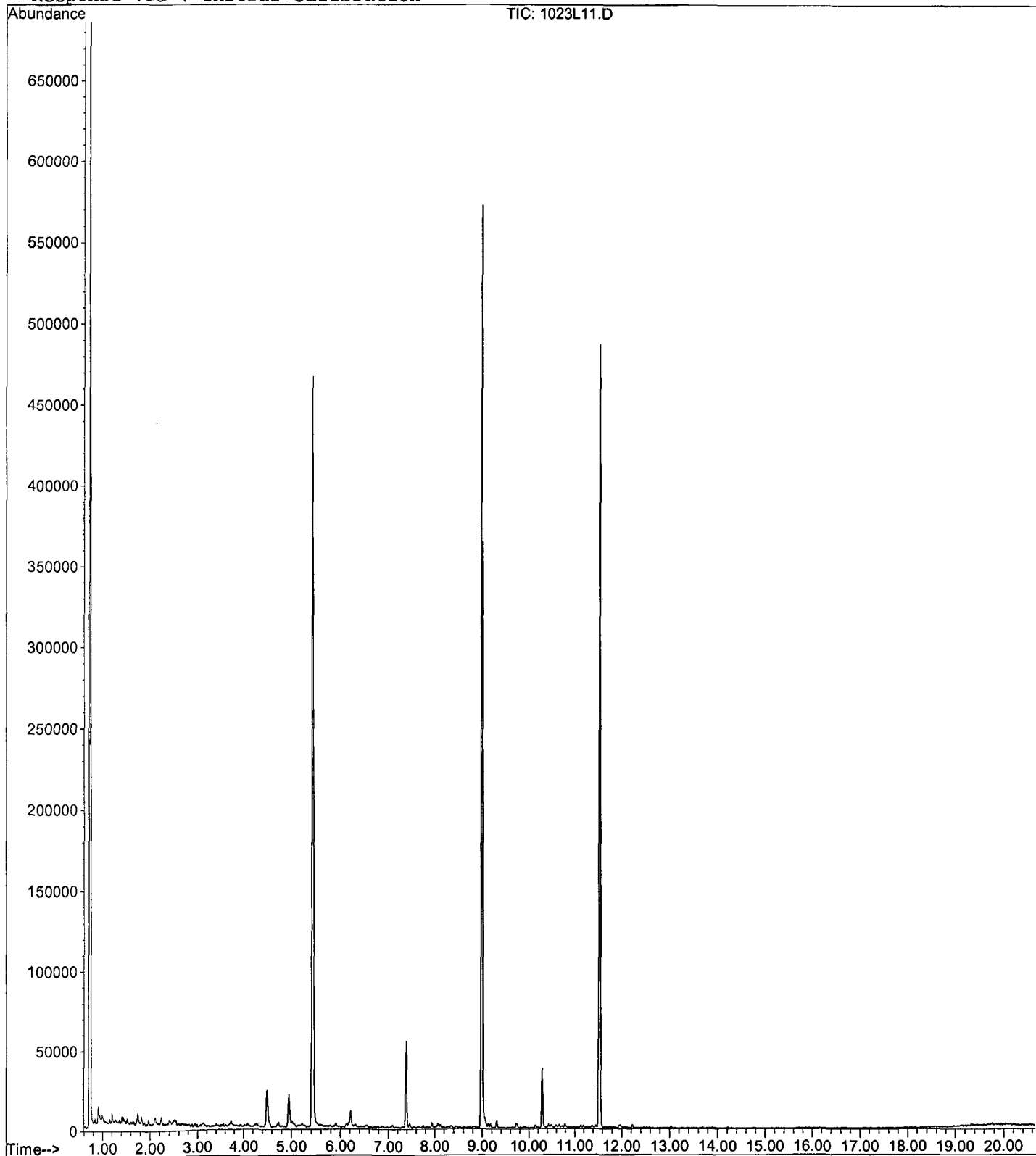
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	208192	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	27680	9.7932	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.172%	
44) 1,2-DCA-D4(S)	4.95	65	28867	9.5055	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.020%	
65) Toluene-D8(S)	7.38	98	64087	8.4599	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.840%	
73) 4-Bromofluorobenzene(S)	10.28	95	21968	8.1873	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.748%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.83	87	663	1.3184	ppb	78
4) Freon 114	0.91	85	1212	-0.1669	ppb	92
5) Chloromethane	0.94	50	2469	1.1097	ppb	93
6) Vinyl chloride	1.01	62	1776	1.0516	ppb	# 72
8) Bromomethane	1.21	94	2455	0.8335	ppb	# 73
9) Chloroethane	1.28	64	1371	0.8290	ppb	# 69
10) Dichlorofluoromethane	1.41	67	3890	1.1969	ppb	100
11) Trichlorofluoromethane	1.45	103	2177	1.1248	ppb	# 72
13) Acrolein	1.74	56	8606	50.9055	ppb	# 66
14) Acetone	1.88	43	2599	1.5947	ppb	97
15) Freon-113	1.84	101	1546	1.0159	ppb	# 85
16) 1,1-DCE	1.82	96	1558	0.2031	ppb	93
17) t-Butanol	2.41	59	6802	47.0527	ppb	# 85
19) Acetonitrile	2.10	41	13984	54.1310	ppb	86
20) Methyl Acetate	2.17	43	1497	0.6286	ppb	99
21) Iodomethane	1.92	142	406	2.0219	ppb	# 78
22) Acrylonitrile	2.48	53	1189	-0.4957	ppb	# 80
23) Methylene chloride	2.23	84	2810	0.1473	ppb	88
24) Carbon disulfide	1.97	76	3425	0.8938	ppb	# 93
25) Methyl t-butyl ether (MtBE)	2.53	73	3643	1.0722	ppb	# 86
26) Trans-1,2-DCE	2.49	96	1912	0.4551	ppb	# 57
27) Diisopropyl Ether	3.11	45	3261	1.0448	ppb	# 88
29) 1,1-DCA	2.95	63	2364	0.9719	ppb	# 84
30) Vinyl Acetate	3.11	45	3261	1.0448	ppb	# 88
31) Ethyl tert Butyl Ether	3.62	59	1146	1.0282	ppb	# 40
32) MEK (2-Butanone)	3.82	43	284	2.6188	ppb	# 50
33) Cis-1,2-DCE	3.73	96	1506	0.6247	ppb	# 79
34) 2,2-Dichloropropane	3.70	77	2114	1.1936	ppb	# 71
37) Chloroform	4.26	83	2704	1.0571	ppb	# 68
38) Bromochloromethane	4.11	128	984	1.1548	ppb	# 30
40) 1,1,1-TCA	4.49	97	2361	1.0753	ppb	82
41) Cyclohexane	4.56	41	1162	1.5723	ppb	# 51
42) 1,1-Dichloropropene	4.74	75	1579	1.2044	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	2292	1.0625	ppb	# 45
45) Carbon Tetrachloride	4.73	117	2117	1.0888	ppb	90
46) Tert Amyl Methyl Ether	5.28	73	750	0.9558	ppb	# 55
48) 1,2-DCA	5.06	62	1915	1.0269	ppb	# 69
49) Benzene	5.01	78	5077	1.1047	ppb	96
50) TCE	5.91	130	1587	1.0822	ppb	# 75

(#) = qualifier out of range (m) = manual integration
 1023L12.D L1023W.M Thu Nov 21 08:11:44 2019

Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	23440	48.6065	ppb	99
52) 1,2-Dichloropropane	6.17	63	1122	0.9615	ppb #	82
53) Bromodichloromethane	6.54	83	2012	1.0949	ppb #	73
54) Methyl Cyclohexane	6.13	83	1163	0.9600	ppb	82
55) Dibromomethane	6.30	93	1196	1.3186	ppb #	64
57) MIBK (methyl isobutyl ket	7.32	43	847	1.3273	ppb #	76
58) 1-Bromo-2-chloroethane	6.88	63	1448	1.0024	ppb #	59
59) Cis-1,3-Dichloropropene	7.09	75	1753	1.1705	ppb #	89
60) Toluene	7.45	91	4244	0.9649	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	1415	1.0824	ppb #	67
62) 1,1,2-TCA	7.94	83	971	1.0342	ppb #	78
63) 2-Hexanone	8.28	43	412	2.5503	ppb #	26
66) 1,2-EDB	8.45	107	1072	0.9960	ppb #	60
67) Tetrachloroethene	8.07	166	1639	1.0197	ppb	95
68) 1-Chlorohexane	9.06	91	905	0.9211	ppb #	66
69) 1,1,1,2-Tetrachloroethane	9.13	131	2052	0.5861	ppb #	64
70) m&p-Xylene	9.30	91	4899	3.4401	ppb #	81
71) o-Xylene	9.72	106	1540	0.9583	ppb	75
72) Styrene	9.74	104	1890	2.1061	ppb	92
74) 1,3-Dichloropropane	8.11	76	1953	1.1608	ppb #	80
75) Dibromochloromethane	8.35	129	1718	1.0947	ppb #	67
76) Chlorobenzene	9.02	112	3632	1.0593	ppb	97
77) Ethylbenzene	9.17	91	3501	0.8663	ppb	95
78) Bromoform	9.91	173	1132	0.9942	ppb	98
80) Isopropylbenzene	10.15	105	1783	1.0160	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	1485	-0.9784	ppb	91
82) 1,2,3-Trichloropropane	10.50	110	318	0.5102	ppb	98
84) Bromobenzene	10.43	156	1448	1.2219	ppb	92
85) n-Propylbenzene	10.78	91	1580	1.1355	ppb	96
86) 4-Ethyltoluene	10.72	105	2159	1.7185	ppb	93
87) 2-Chlorotoluene	10.66	91	1411	1.0547	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	2343	0.9237	ppb	84
89) 4-Chlorotoluene	10.77	126	427	0.8368	ppb	95
90) Tert-Butylbenzene	11.14	119	2216	1.0057	ppb #	87
91) 1,2,4-Trimethylbenzene	11.19	105	2070	2.0221	ppb	80
92) Sec-Butylbenzene	11.38	105	2691	0.9072	ppb	95
93) p-Isopropyltoluene	11.54	119	2736	0.9137	ppb #	85
94) Benzyl Chloride	11.72	91	930	1.2180	ppb #	64
95) 1,3-DCB	11.46	146	1779	0.9283	ppb #	93
96) 1,4-DCB	11.56	146	2787	1.2049	ppb	95
97) n-Butylbenzene	11.98	91	1844	0.9526	ppb	88
98) 1,2-DCB	11.95	146	1954	1.0146	ppb	91
99) Hexachloroethane	12.23	201	615	1.8386	ppb #	33
100) 1,2-Dibromo-3-chloropropan	12.79	75	243	1.8867	ppb #	1
101) 1,2,4-Trichlorobenzene	13.69	180	593	1.5130	ppb #	50
102) Hexachlorobutadiene	13.90	223	285	2.7215	ppb #	63
103) Naphthalene	13.94	128	1275	2.1035	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	476	3.8128	ppb #	51

(#) = qualifier out of range (m) = manual integration
 1023L12.D L1023W.M Thu Nov 21 08:11:44 2019

Quantitation Report

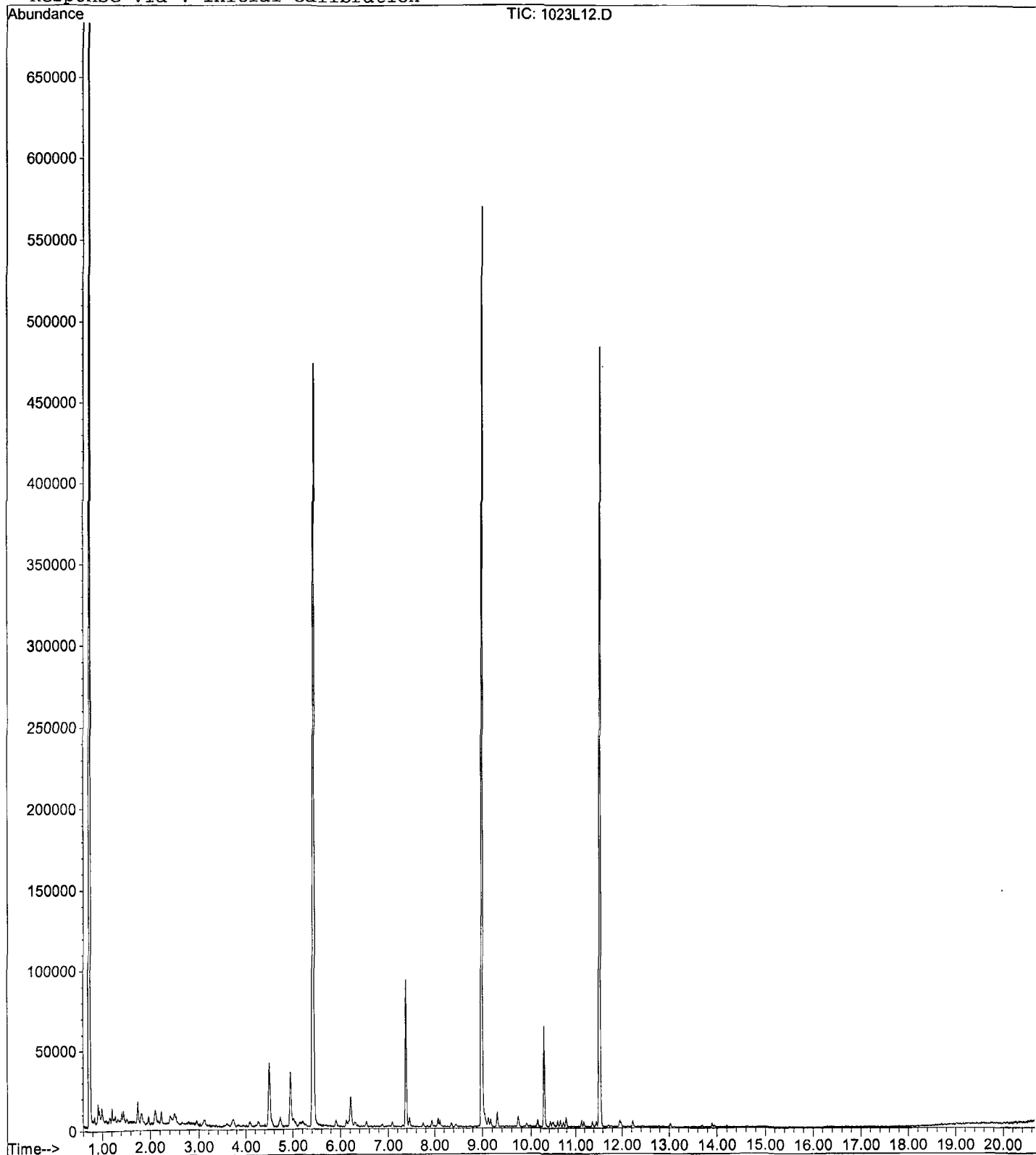
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	202496	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	25895	9.2938	ppb	0.00
Spiked Amount 25.000			Recovery =	37.176%		
44) 1,2-DCA-D4(S)	4.95	65	28773	9.6112	ppb	0.00
Spiked Amount 25.000			Recovery =	38.444%		
65) Toluene-D8(S)	7.38	98	64548	8.7605	ppb	0.00
Spiked Amount 25.000			Recovery =	35.040%		
73) 4-Bromofluorobenzene(S)	10.29	95	21984	8.4237	ppb	0.00
Spiked Amount 25.000			Recovery =	33.696%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.84	87	1124	2.2244	ppb	99
4) Freon 114	0.91	85	2890	1.7422	ppb	98
5) Chloromethane	0.94	50	4257	2.3743	ppb	99
6) Vinyl chloride	1.01	62	3952	2.3739	ppb	89
8) Bromomethane	1.21	94	5197	2.2849	ppb	93
9) Chloroethane	1.27	64	3019	2.1367	ppb	94
10) Dichlorofluoromethane	1.41	67	6778	2.1156	ppb	93
11) Trichlorofluoromethane	1.45	103	3984	2.0880	ppb	99
13) Acrolein	1.75	56	12639	75.8394	ppb	# 75
14) Acetone	1.87	43	2838	2.2685	ppb	# 88
15) Freon-113	1.84	101	3297	2.1977	ppb	# 84
16) 1,1-DCE	1.82	96	3648	2.0120	ppb	88
17) t-Butanol	2.41	59	10011	69.6659	ppb	93
19) Acetonitrile	2.10	41	20885	82.0103	ppb	91
20) Methyl Acetate	2.17	43	2752	1.7543	ppb	96
21) Iodomethane	1.92	142	1022	2.5028	ppb	# 74
22) Acrylonitrile	2.47	53	1741	0.5468	ppb	# 63
23) Methylene chloride	2.23	84	5022	1.7513	ppb	93
24) Carbon disulfide	1.97	76	7398	2.3485	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.52	73	7227	2.1577	ppb	# 93
26) Trans-1,2-DCE	2.50	96	3538	1.6559	ppb	97
27) Diisopropyl Ether	3.11	45	7072	2.2986	ppb	92
29) 1,1-DCA	2.95	63	5051	2.1066	ppb	# 79
30) Vinyl Acetate	3.11	45	7072	2.2986	ppb	92
31) Ethyl tert Butyl Ether	3.62	59	2426	2.2080	ppb	97
32) MEK (2-Butanone)	3.81	43	586	4.7157	ppb	# 70
33) Cis-1,2-DCE	3.73	96	2819	1.7107	ppb	94
34) 2,2-Dichloropropane	3.71	77	3701	2.1198	ppb	# 83
37) Chloroform	4.26	83	5443	2.1585	ppb	# 74
38) Bromochloromethane	4.08	128	1727	2.0559	ppb	86
40) 1,1,1-TCA	4.49	97	4982	2.3016	ppb	90
41) Cyclohexane	4.55	41	2084	2.7870	ppb	94
42) 1,1-Dichloropropene	4.74	75	2745	2.1240	ppb	96
43) 2,2,4-Trimethylpentane	5.21	57	4449	2.0922	ppb	# 50
45) Carbon Tetrachloride	4.71	117	4362	2.2759	ppb	92
46) Tert Amyl Methyl Ether	5.27	73	1685	2.1782	ppb	# 65
48) 1,2-DCA	5.05	62	4054	2.2052	ppb	99
49) Benzene	5.01	78	9260	2.0440	ppb	93
50) TCE	5.90	130	2876	1.9895	ppb	95

(#) = qualifier out of range (m) = manual integration
 1023L13.D L1023W.M Thu Nov 21 08:11:46 2019

Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	34625	72.8360	ppb	100
52) 1,2-Dichloropropane	6.17	63	2858	2.4845	ppb #	82
53) Bromodichloromethane	6.54	83	3834	2.1164	ppb #	94
54) Methyl Cyclohexane	6.13	83	2750	2.3027	ppb	91
55) Dibromomethane	6.30	93	1755	1.9628	ppb	95
57) MIBK (methyl isobutyl ket	7.32	43	1166	1.8738	ppb #	69
58) 1-Bromo-2-chloroethane	6.87	63	2874	2.0183	ppb	84
59) Cis-1,3-Dichloropropene	7.09	75	2869	1.9433	ppb	86
60) Toluene	7.45	91	8003	1.8458	ppb	92
61) Trans-1,3-Dichloropropene	7.75	75	2411	1.8708	ppb	98
62) 1,1,2-TCA	7.94	83	1675	1.8098	ppb #	73
63) 2-Hexanone	8.28	43	362	2.3720	ppb #	58
66) 1,2-EDB	8.44	107	2169	2.0719	ppb #	81
67) Tetrachloroethene	8.07	166	3284	2.1007	ppb #	79
68) 1-Chlorohexane	9.06	91	1913	2.0017	ppb #	85
69) 1,1,1,2-Tetrachloroethane	9.12	131	2943	1.3208	ppb	85
70) m&p-Xylene	9.30	91	11212	5.1441	ppb	97
71) o-Xylene	9.72	106	3210	2.0537	ppb	60
72) Styrene	9.74	104	4228	2.8433	ppb	91
74) 1,3-Dichloropropane	8.11	76	3423	2.0917	ppb	83
75) Dibromochloromethane	8.35	129	3468	2.2719	ppb	98
76) Chlorobenzene	9.01	112	7100	2.1289	ppb	88
77) Ethylbenzene	9.17	91	7781	1.9794	ppb	100
78) Bromoform	9.91	173	2415	2.1808	ppb	80
80) Isopropylbenzene	10.14	105	3631	1.9279	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	3203	0.8287	ppb #	90
82) 1,2,3-Trichloropropane	10.51	110	946	2.0917	ppb #	74
83) t-1,4-Dichloro-2-Butene	10.53	53	258	1.9367	ppb #	17
84) Bromobenzene	10.43	156	2809	2.2088	ppb	86
85) n-Propylbenzene	10.59	91	6612	2.3689	ppb	97
86) 4-Ethyltoluene	10.72	105	4643	2.3633	ppb	89
87) 2-Chlorotoluene	10.65	91	2942	2.0492	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	4568	1.6780	ppb	88
89) 4-Chlorotoluene	10.77	126	1122	2.0489	ppb #	64
90) Tert-Butylbenzene	11.14	119	4397	1.8594	ppb #	92
91) 1,2,4-Trimethylbenzene	11.19	105	4261	2.6707	ppb	94
92) Sec-Butylbenzene	11.38	105	5824	1.8295	ppb	96
93) p-Isopropyltoluene	11.54	119	6193	1.9272	ppb	94
94) Benzyl Chloride	11.71	91	2004	2.4456	ppb #	84
95) 1,3-DCB	11.46	146	4465	2.1711	ppb	98
96) 1,4-DCB	11.56	146	5643	2.2732	ppb	89
97) n-Butylbenzene	11.98	91	3818	1.8379	ppb	92
98) 1,2-DCB	11.95	146	4522	2.1879	ppb #	85
99) Hexachloroethane	12.23	201	1603	3.1903	ppb	85
100) 1,2-Dibromo-3-chloropropan	12.79	75	337	2.3651	ppb #	66
101) 1,2,4-Trichlorobenzene	13.69	180	1309	2.5559	ppb #	63
102) Hexachlorobutadiene	13.89	223	641	4.4131	ppb #	1
103) Naphthalene	13.94	128	1488	2.2376	ppb #	63
104) 1,2,3-Trichlorobenzene	14.20	182	738	4.2755	ppb #	88

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

Quantitation Report

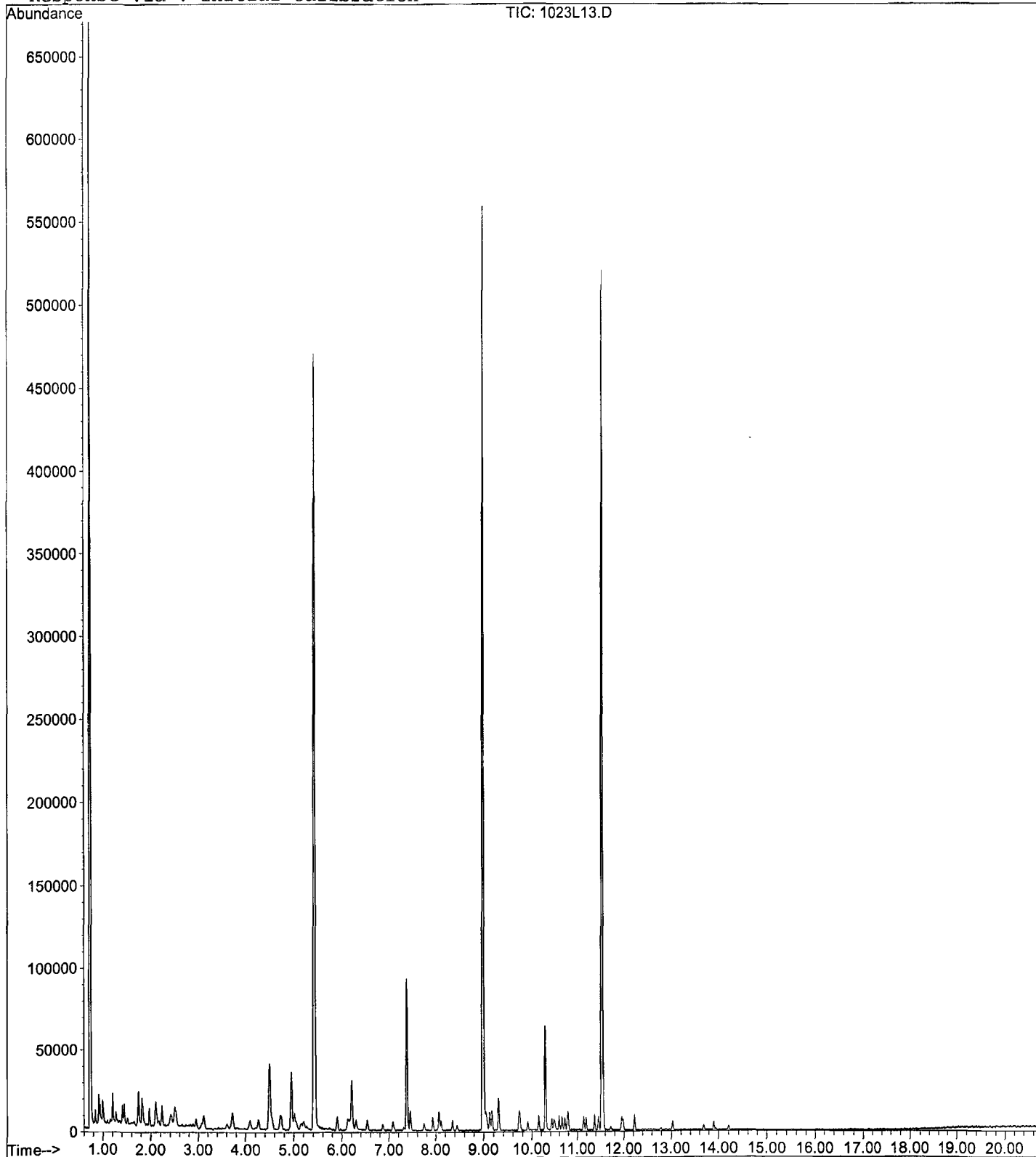
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	215872	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73331	25.5668	ppb	0.00
Spiked Amount				25.0000		
					Recovery = 102.268%	
44) 1,2-DCA-D4(S)	4.95	65	77274	25.0747	ppb	0.00
Spiked Amount				25.0000		
					Recovery = 100.300%	
65) Toluene-D8(S)	7.38	98	196494	25.0158	ppb	0.00
Spiked Amount				25.0000		
					Recovery = 100.064%	
73) 4-Bromofluorobenzene(S)	10.29	95	66904	24.0474	ppb	0.00
Spiked Amount				25.0000		
					Recovery = 96.188%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	2745	5.1954	ppb	79
4) Freon 114	0.91	85	5643	4.6608	ppb	99
5) Chloromethane	0.94	50	8851	5.3855	ppb	98
6) Vinyl chloride	1.01	62	8471	4.9429	ppb	95
8) Bromomethane	1.21	94	10315	4.8059	ppb	86
9) Chloroethane	1.28	64	6835	4.9763	ppb	95
10) Dichlorofluoromethane	1.41	67	14766	4.4771	ppb	97
11) Trichlorofluoromethane	1.45	103	9773	4.9758	ppb	82
13) Acrolein	1.75	56	17869	104.1582	ppb	# 82
14) Acetone	1.88	43	3908	4.6086	ppb	100
15) Freon-113	1.84	101	7299	4.7262	ppb	88
16) 1,1-DCE	1.82	96	6399	4.2114	ppb	93
17) t-Butanol	2.44	59	14447	97.1875	ppb	96
19) Acetonitrile	2.11	41	26178	99.8576	ppb	96
20) Methyl Acetate	2.17	43	7813	6.0209	ppb	95
21) Iodomethane	1.92	142	3005	3.9702	ppb	91
22) Acrylonitrile	2.47	53	3958	4.4018	ppb	93
23) Methylene chloride	2.23	84	9429	4.6983	ppb	87
24) Carbon disulfide	1.97	76	14384	4.7268	ppb	94
25) Methyl t-butyl ether (MtBE)	2.53	73	16791	4.8699	ppb	96
26) Trans-1,2-DCE	2.50	96	7349	4.2715	ppb	96
27) Diisopropyl Ether	3.12	45	14431	4.5565	ppb	# 89
29) 1,1-DCA	2.95	63	11078	4.4883	ppb	94
30) Vinyl Acetate	3.12	45	14431	4.5565	ppb	# 89
31) Ethyl tert Butyl Ether	3.62	59	4671	4.1297	ppb	# 87
32) MEK (2-Butanone)	3.85	43	769	5.8190	ppb	# 72
33) Cis-1,2-DCE	3.73	96	6892	4.8652	ppb	88
34) 2,2-Dichloropropane	3.71	77	8610	4.7906	ppb	# 90
37) Chloroform	4.27	83	13255	5.1064	ppb	90
38) Bromochloromethane	4.09	128	4298	4.9705	ppb	75
40) 1,1,1-TCA	4.48	97	9955	4.4677	ppb	90
41) Cyclohexane	4.54	41	3780	4.8423	ppb	96
42) 1,1-Dichloropropene	4.74	75	6110	4.5926	ppb	89
43) 2,2,4-Trimethylpentane	5.20	57	9807	4.4802	ppb	87
45) Carbon Tetrachloride	4.72	117	10385	5.2635	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	3669	4.6075	ppb	# 84
48) 1,2-DCA	5.06	62	8733	4.6147	ppb	100
49) Benzene	5.01	78	20840	4.4686	ppb	95
50) TCE	5.90	130	7030	4.7241	ppb	# 93

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

Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	48974	100.0766	ppb	97
52) 1,2-Dichloropropane	6.17	63	5496	4.6412	ppb #	92
53) Bromodichloromethane	6.54	83	9059	4.8579	ppb	91
54) Methyl Cyclohexane	6.12	83	4926	4.0069	ppb	91
55) Dibromomethane	6.30	93	4716	5.1236	ppb #	72
57) MIBK (methyl isobutyl ket	7.32	43	2371	3.7509	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	7422	5.0632	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	7182	4.7257	ppb	99
60) Toluene	7.45	91	21128	4.7336	ppb	91
61) Trans-1,3-Dichloropropene	7.75	75	5492	4.1398	ppb	99
62) 1,1,2-TCA	7.94	83	4889	5.1316	ppb	92
63) 2-Hexanone	8.27	43	1130	5.3449	ppb #	82
66) 1,2-EDB	8.45	107	5191	4.6514	ppb #	76
67) Tetrachloroethene	8.07	166	7564	4.5387	ppb	94
68) 1-Chlorohexane	9.05	91	4515	4.4317	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.12	131	7598	4.5664	ppb	98
70) m&p-Xylene	9.31	91	26965	8.8661	ppb	98
71) o-Xylene	9.72	106	7509	4.5065	ppb	72
72) Styrene	9.75	104	10324	4.5266	ppb	94
74) 1,3-Dichloropropane	8.11	76	7871	4.5118	ppb	96
75) Dibromochloromethane	8.36	129	7692	4.7267	ppb	84
76) Chlorobenzene	9.02	112	16534	4.6505	ppb	93
77) Ethylbenzene	9.17	91	18501	4.4148	ppb	93
78) Bromoform	9.91	173	5510	4.6673	ppb	92
80) Isopropylbenzene	10.15	105	8921	4.1468	ppb	91
81) 1,1,2,2-Tetrachloroethane	10.47	83	7318	4.4261	ppb	92
82) 1,2,3-Trichloropropane	10.50	110	2455	5.2388	ppb	80
83) t-1,4-Dichloro-2-Butene	10.54	53	697	4.5806	ppb	85
84) Bromobenzene	10.43	156	7212	4.9648	ppb	89
85) n-Propylbenzene	10.59	91	19028	4.8893	ppb	96
86) 4-Ethyltoluene	10.72	105	13627	4.3833	ppb	97
87) 2-Chlorotoluene	10.65	91	7856	4.7906	ppb	80
88) 1,3,5-Trimethylbenzene	10.79	105	12671	4.0750	ppb	97
89) 4-Chlorotoluene	10.78	126	2644	4.2271	ppb	76
90) Tert-Butylbenzene	11.13	119	12772	4.7285	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	11442	4.5012	ppb	98
92) Sec-Butylbenzene	11.38	105	15546	4.2754	ppb	99
93) p-Isopropyltoluene	11.54	119	15167	4.1320	ppb	94
94) Benzyl Chloride	11.71	91	4291	4.5845	ppb #	87
95) 1,3-DCB	11.46	146	10467	4.4558	ppb	90
96) 1,4-DCB	11.55	146	12505	4.4102	ppb	94
97) n-Butylbenzene	11.98	91	9719	4.0960	ppb	90
98) 1,2-DCB	11.95	146	10842	4.5926	ppb	96
99) Hexachloroethane	12.23	201	3784	5.6412	ppb #	86
100) 1,2-Dibromo-3-chloropropan	12.79	75	823	4.7727	ppb #	75
101) 1,2,4-Trichlorobenzene	13.69	180	3266	4.9053	ppb	74
102) Hexachlorobutadiene	13.90	223	998	5.5877	ppb #	68
103) Naphthalene	13.94	128	4178	4.6013	ppb #	87
104) 1,2,3-Trichlorobenzene	14.20	182	1815	6.0088	ppb #	85

(#) = qualifier out of range (m) = manual integration
 1023L14.D L1023W.M Thu Nov 21 08:11:50 2019

Quantitation Report

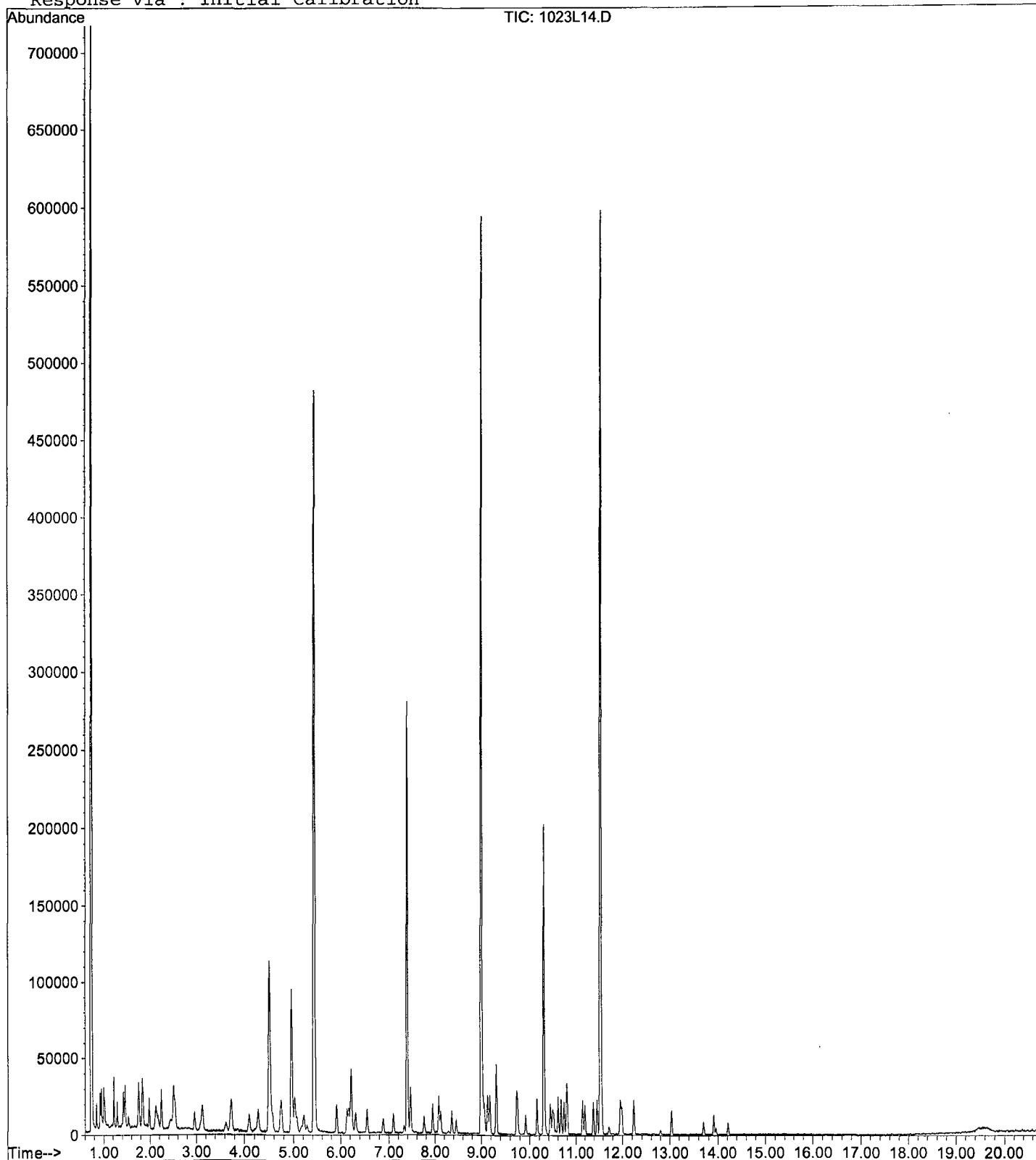
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	224832	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73614	24.5977	ppb	0.00
Spiked Amount 25.000			Recovery =	98.392%		
44) 1,2-DCA-D4(S)	4.95	65	77647	24.1476	ppb	0.00
Spiked Amount 25.000			Recovery =	96.592%		
65) Toluene-D8(S)	7.38	98	203676	24.8968	ppb	0.00
Spiked Amount 25.000			Recovery =	99.588%		
73) 4-Bromofluorobenzene(S)	10.29	95	73416	25.3364	ppb	0.00
Spiked Amount 25.000			Recovery =	101.344%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	5617	10.1316	ppb	100
4) Freon 114	0.91	85	11281	10.3152	ppb	100
5) Chloromethane	0.94	50	16704	10.2088	ppb	100
6) Vinyl chloride	1.01	62	17656	9.8739	ppb	100
8) Bromomethane	1.21	94	21551	10.0557	ppb	100
9) Chloroethane	1.27	64	14010	9.9986	ppb	100
10) Dichlorofluoromethane	1.41	67	31971	9.2905	ppb	100
11) Trichlorofluoromethane	1.45	103	20764	10.1319	ppb	100
13) Acrolein	1.74	56	21736	121.4281	ppb	100
14) Acetone	1.88	43	5930	8.8198	ppb	100
15) Freon-113	1.84	101	14752	9.1548	ppb	100
16) 1,1-DCE	1.82	96	14892	10.7618	ppb	100
17) t-Butanol	2.42	59	19301	124.1076	ppb	100
19) Acetonitrile	2.11	41	33427	122.2048	ppb	100
20) Methyl Acetate	2.17	43	13219	10.1812	ppb	100
21) Iodomethane	1.92	142	9167	8.3137	ppb	100
22) Acrylonitrile	2.47	53	7439	10.0471	ppb	100
23) Methylene chloride	2.23	84	18291	10.3035	ppb	100
24) Carbon disulfide	1.97	76	30784	10.0396	ppb	100
25) Methyl t-butyl ether (MtBE)	2.52	73	33454	9.2991	ppb	100
26) Trans-1,2-DCE	2.50	96	16940	10.5417	ppb	100
27) Diisopropyl Ether	3.12	45	30228	9.1472	ppb	100
29) 1,1-DCA	2.95	63	25001	9.7078	ppb	100
30) Vinyl Acetate	3.12	45	30228	9.1472	ppb	100
31) Ethyl tert Butyl Ether	3.61	59	10926	9.2581	ppb	100
32) MEK (2-Butanone)	3.82	43	1289	8.9232	ppb	100
33) Cis-1,2-DCE	3.73	96	13811	9.8811	ppb	100
34) 2,2-Dichloropropane	3.72	77	18108	9.6562	ppb	100
37) Chloroform	4.27	83	26278	9.7022	ppb	100
38) Bromochloromethane	4.09	128	8877	9.8388	ppb	100
40) 1,1,1-TCA	4.49	97	23699	10.1934	ppb	100
41) Cyclohexane	4.56	41	8372	10.1779	ppb	100
42) 1,1-Dichloropropene	4.74	75	12858	9.2627	ppb	100
43) 2,2,4-Trimethylpentane	5.20	57	21908	9.5919	ppb	100
45) Carbon Tetrachloride	4.72	117	21722	10.5516	ppb	100
46) Tert Amyl Methyl Ether	5.27	73	7355	8.8521	ppb	100
48) 1,2-DCA	5.05	62	19791	10.0228	ppb	100
49) Benzene	5.01	78	45851	9.4226	ppb	100
50) TCE	5.90	130	15785	10.1662	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023L15.D L1023W.M Thu Nov 21 08:11:52 2019

Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	61171	119.8006	ppb	100
52) 1,2-Dichloropropane	6.17	63	11911	9.6401	ppb	100
53) Bromodichloromethane	6.54	83	19876	10.2150	ppb	100
54) Methyl Cyclohexane	6.12	83	11767	9.1734	ppb	100
55) Dibromomethane	6.30	93	8969	9.3388	ppb	100
57) MIBK (methyl isobutyl ket	7.32	43	5900	9.0159	ppb	100
58) 1-Bromo-2-chloroethane	6.87	63	15727	10.2825	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	15887	10.0187	ppb	100
60) Toluene	7.46	91	46253	9.9316	ppb	100
61) Trans-1,3-Dichloropropene	7.75	75	13841	9.9991	ppb	100
62) 1,1,2-TCA	7.93	83	10245	10.3059	ppb	100
63) 2-Hexanone	8.28	43	1763	7.5417	ppb	100
66) 1,2-EDB	8.45	107	11995	10.3198	ppb	100
67) Tetrachloroethene	8.07	166	16035	9.2381	ppb	100
68) 1-Chlorohexane	9.06	91	10343	9.7475	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.13	131	16000	10.2157	ppb	100
70) m&p-Xylene	9.31	91	65270	17.7180	ppb	100
71) o-Xylene	9.73	106	16367	9.4311	ppb	100
72) Styrene	9.75	104	24492	8.3441	ppb	100
74) 1,3-Dichloropropane	8.11	76	17357	9.5529	ppb	100
75) Dibromochloromethane	8.35	129	16851	9.9423	ppb	100
76) Chlorobenzene	9.02	112	35079	9.4735	ppb	100
77) Ethylbenzene	9.17	91	41590	9.5290	ppb	100
78) Bromoform	9.91	173	12341	10.0370	ppb	100
80) Isopropylbenzene	10.15	105	21528	9.1420	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.47	83	15943	11.5501	ppb	100
82) 1,2,3-Trichloropropane	10.50	110	5543	11.2120	ppb	100
83) t-1,4-Dichloro-2-Butene	10.54	53	1827	10.9689	ppb	100
84) Bromobenzene	10.43	156	15551	9.7800	ppb	100
85) n-Propylbenzene	10.59	91	44823	9.7037	ppb	100
86) 4-Ethyltoluene	10.72	105	36081	9.0758	ppb	100
87) 2-Chlorotoluene	10.66	91	16339	9.1023	ppb	100
88) 1,3,5-Trimethylbenzene	10.80	105	33536	9.8529	ppb	100
89) 4-Chlorotoluene	10.78	126	7129	10.4123	ppb	100
90) Tert-Butylbenzene	11.14	119	27789	9.3987	ppb	100
91) 1,2,4-Trimethylbenzene	11.19	105	29772	8.8880	ppb	100
92) Sec-Butylbenzene	11.38	105	38945	9.7847	ppb	100
93) p-Isopropyltoluene	11.54	119	38751	9.6446	ppb	100
94) Benzyl Chloride	11.72	91	9084	8.8664	ppb	100
95) 1,3-DCB	11.46	146	26552	10.3262	ppb	100
96) 1,4-DCB	11.56	146	29385	9.4675	ppb	100
97) n-Butylbenzene	11.99	91	24773	9.5379	ppb	100
98) 1,2-DCB	11.95	146	24672	9.5475	ppb	100
99) Hexachloroethane	12.23	201	8173	10.2625	ppb	100
100) 1,2-Dibromo-3-chloropropan	12.79	75	1995	10.2661	ppb	100
101) 1,2,4-Trichlorobenzene	13.69	180	7118	9.0209	ppb	100
102) Hexachlorobutadiene	13.90	223	1991	9.2149	ppb	100
103) Naphthalene	13.95	128	10870	9.6697	ppb	100
104) 1,2,3-Trichlorobenzene	14.21	182	4112	9.4708	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023L15.D L1023W.M Thu Nov 21 08:11:52 2019

Quantitation Report

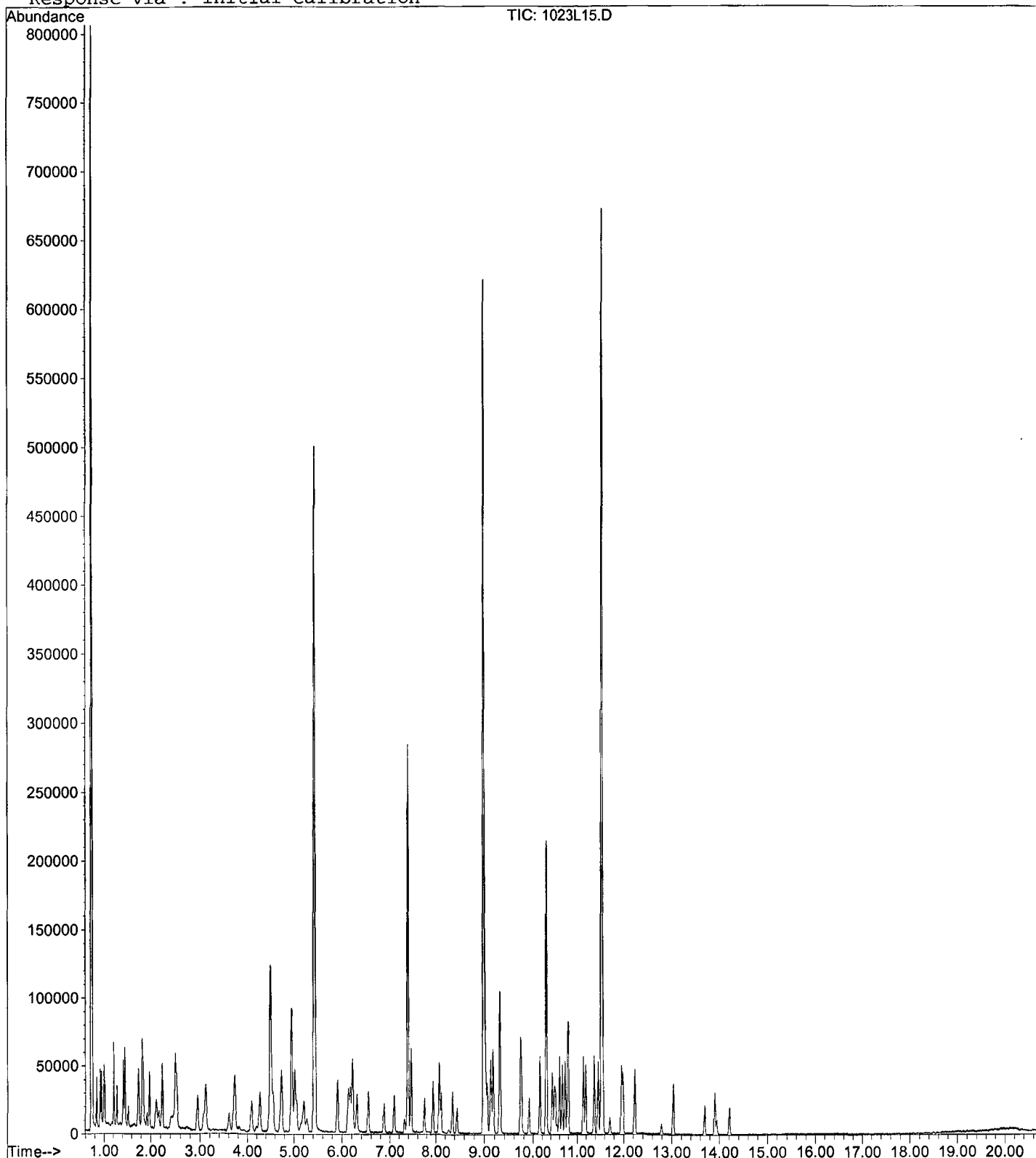
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	234944	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	152485	48.8553	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.420%	
44) 1,2-DCA-D4(S)	4.95	65	165297	49.2906	ppb	0.00
Spiked Amount	25.000		Recovery	=	197.164%	
65) Toluene-D8(S)	7.38	98	454363	53.1496	ppb	0.00
Spiked Amount	25.000		Recovery	=	212.600%	
73) 4-Bromofluorobenzene(S)	10.29	95	166667	55.0425	ppb	0.00
Spiked Amount	25.000		Recovery	=	220.168%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	11912	20.5402	ppb	80
4) Freon 114	0.91	85	23048	21.6579	ppb	98
5) Chloromethane	0.94	50	33644	20.2545	ppb	99
6) Vinyl chloride	1.01	62	34944	18.7378	ppb	92
8) Bromomethane	1.21	94	40662	18.5413	ppb	99
9) Chloroethane	1.28	64	28290	19.5753	ppb	98
10) Dichlorofluoromethane	1.41	67	63509	17.6958	ppb	94
11) Trichlorofluoromethane	1.45	103	42093	19.6942	ppb	92
13) Acrolein	1.75	56	25250	135.2543	ppb	88
14) Acetone	1.88	43	11684	20.8078	ppb	91
15) Freon-113	1.84	101	30336	18.0512	ppb	94
16) 1,1-DCE	1.82	96	28582	20.7397	ppb	92
17) t-Butanol	2.45	59	25200	155.0725	ppb	98
19) Acetonitrile	2.11	41	40237	141.0479	ppb	94
20) Methyl Acetate	2.17	43	26178	19.9373	ppb	91
21) Iodomethane	1.92	142	24387	18.5512	ppb	95
22) Acrylonitrile	2.47	53	15011	21.9106	ppb	# 79
23) Methylene chloride	2.23	84	36847	21.6030	ppb	100
24) Carbon disulfide	1.97	76	57128	18.1197	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	67952	18.1111	ppb	94
26) Trans-1,2-DCE	2.50	96	34415	21.4014	ppb	96
27) Diisopropyl Ether	3.12	45	64802	18.8025	ppb	91
29) 1,1-DCA	2.95	63	48492	18.0544	ppb	94
30) Vinyl Acetate	3.12	45	64802	18.8025	ppb	91
31) Ethyl tert Butyl Ether	3.61	59	22768	18.4984	ppb	97
32) MEK (2-Butanone)	3.82	43	2904	18.4630	ppb	90
33) Cis-1,2-DCE	3.73	96	29262	20.6760	ppb	94
34) 2,2-Dichloropropane	3.72	77	38070	19.4656	ppb	# 90
37) Chloroform	4.27	83	54671	19.3547	ppb	92
38) Bromochloromethane	4.09	128	17202	18.2812	ppb	# 69
40) 1,1,1-TCA	4.48	97	47649	19.6515	ppb	98
41) Cyclohexane	4.56	41	16617	19.2890	ppb	97
42) 1,1-Dichloropropene	4.73	75	29030	20.0522	ppb	94
43) 2,2,4-Trimethylpentane	5.20	57	48757	20.4687	ppb	88
45) Carbon Tetrachloride	4.72	117	44086	20.5338	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	16529	19.0749	ppb	# 75
48) 1,2-DCA	5.06	62	39402	19.1334	ppb	95
49) Benzene	5.01	78	98352	19.3802	ppb	98
50) TCE	5.90	130	30073	18.5713	ppb	88

(#) = qualifier out of range (m) = manual integration
 1023L16.D L1023W.M Thu Nov 21 08:11:54 2019

Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	80112	150.4392	ppb	97
52) 1,2-Dichloropropane	6.17	63	25489	19.7804	ppb	96
53) Bromodichloromethane	6.54	83	39689	19.5583	ppb	99
54) Methyl Cyclohexane	6.13	83	24258	18.1330	ppb	99
55) Dibromomethane	6.30	93	19267	19.2358	ppb	79
57) MIBK (methyl isobutyl ket	7.32	43	12116	17.8021	ppb	98
58) 1-Bromo-2-chloroethane	6.87	63	32326	20.2655	ppb	97
59) Cis-1,3-Dichloropropene	7.09	75	31179	18.8531	ppb	98
60) Toluene	7.45	91	102526	21.1088	ppb	95
61) Trans-1,3-Dichloropropene	7.75	75	30964	21.4487	ppb	100
62) 1,1,2-TCA	7.94	83	21941	21.1633	ppb	97
63) 2-Hexanone	8.27	43	5861	22.0514	ppb	# 66
66) 1,2-EDB	8.44	107	24227	19.9464	ppb	# 81
67) Tetrachloroethene	8.07	166	35093	19.3477	ppb	95
68) 1-Chlorohexane	9.05	91	22487	20.2802	ppb	93
69) 1,1,1,2-Tetrachloroethane	9.12	131	32557	20.8037	ppb	92
70) m&p-Xylene	9.31	91	157688	38.1023	ppb	98
71) o-Xylene	9.73	106	36971	20.3867	ppb	95
72) Styrene	9.74	104	62888	18.2603	ppb	94
74) 1,3-Dichloropropane	8.11	76	37845	19.9326	ppb	99
75) Dibromochloromethane	8.35	129	32738	18.4844	ppb	83
76) Chlorobenzene	9.02	112	73014	18.8695	ppb	92
77) Ethylbenzene	9.17	91	99134	21.7357	ppb	91
78) Bromoform	9.91	173	26260	20.4382	ppb	88
80) Isopropylbenzene	10.15	105	53768	19.5096	ppb	98
81) 1,1,2,2-Tetrachloroethane	10.47	83	31720	21.5728	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	10660	18.6699	ppb	93
83) t-1,4-Dichloro-2-Butene	10.53	53	3846	19.7297	ppb	77
84) Bromobenzene	10.43	156	33632	18.0725	ppb	94
85) n-Propylbenzene	10.59	91	103441	18.4442	ppb	96
86) 4-Ethyltoluene	10.72	105	91242	18.3613	ppb	97
87) 2-Chlorotoluene	10.65	91	42412	20.1883	ppb	88
88) 1,3,5-Trimethylbenzene	10.79	105	88124	22.1223	ppb	99
89) 4-Chlorotoluene	10.78	126	17536	21.8844	ppb	96
90) Tert-Butylbenzene	11.14	119	77678	22.4481	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	75898	17.8102	ppb	95
92) Sec-Butylbenzene	11.37	105	96648	20.7480	ppb	100
93) p-Isopropyltoluene	11.54	119	95037	20.2106	ppb	98
94) Benzyl Chloride	11.71	91	21054	17.5585	ppb	95
95) 1,3-DCB	11.46	146	58162	19.3271	ppb	97
96) 1,4-DCB	11.56	146	64064	17.6364	ppb	97
97) n-Butylbenzene	11.98	91	60083	19.7657	ppb	98
98) 1,2-DCB	11.95	146	52173	17.2511	ppb	95
99) Hexachloroethane	12.23	201	18679	19.1902	ppb	92
100) 1,2-Dibromo-3-chloropropan	12.79	75	4332	18.8340	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	19289	18.9948	ppb	84
102) Hexachlorobutadiene	13.90	223	4287	15.9644	ppb	93
103) Naphthalene	13.94	128	26408	17.9502	ppb	94
104) 1,2,3-Trichlorobenzene	14.20	182	9469	15.9523	ppb	95

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

1023L16.D L1023W.M Thu Nov 21 08:11:55 2019

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Quantitation Report

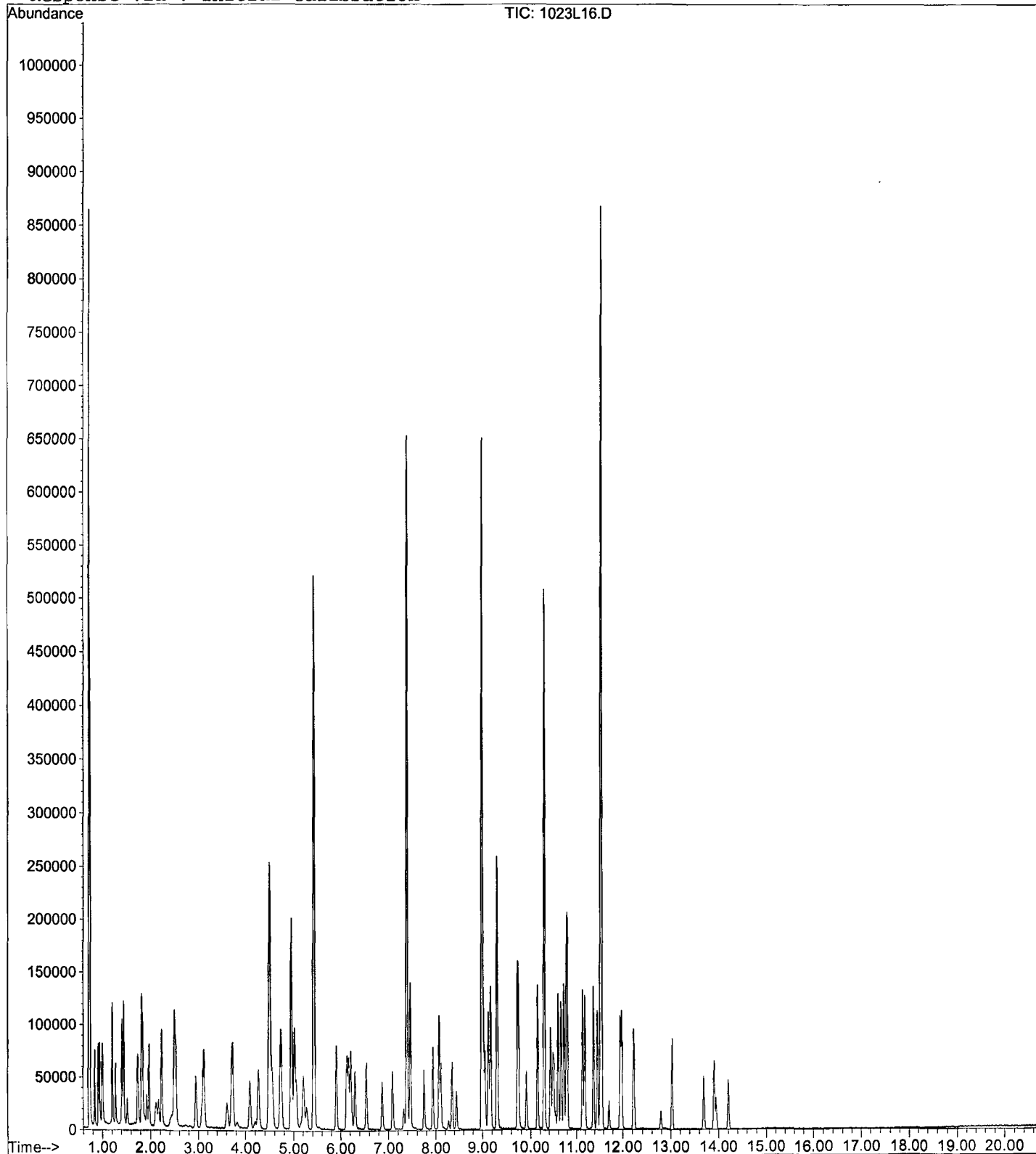
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	232256	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	154619	48.8728	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.492%	
44) 1,2-DCA-D4(S)	4.95	65	164006	48.2479	ppb	0.00
Spiked Amount	25.000		Recovery	=	192.992%	
65) Toluene-D8(S)	7.38	98	466931	55.2519	ppb	0.00
Spiked Amount	25.000		Recovery	=	221.008%	
73) 4-Bromofluorobenzene(S)	10.29	95	177941	59.4459	ppb	0.00
Spiked Amount	25.000		Recovery	=	237.784%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	21976	37.3353	ppb	87
4) Freon 114	0.91	85	43518	41.6481	ppb	93
5) Chloromethane	0.94	50	63203	38.0317	ppb	98
6) Vinyl chloride	1.01	62	66088	34.9614	ppb	95
8) Bromomethane	1.21	94	71318	32.3976	ppb	99
9) Chloroethane	1.27	64	50642	34.7475	ppb	99
10) Dichlorofluoromethane	1.41	67	125806	34.5824	ppb	99
11) Trichlorofluoromethane	1.45	103	74304	34.2973	ppb	99
13) Acrolein	1.74	56	32822	173.4499	ppb	# 71
14) Acetone	1.88	43	21286	41.1145	ppb	93
15) Freon-113	1.84	101	57076	33.5058	ppb	92
16) 1,1-DCE	1.82	96	56733	41.6787	ppb	95
17) t-Butanol	2.43	59	34928	211.6097	ppb	99
19) Acetonitrile	2.11	41	44080	152.4411	ppb	90
20) Methyl Acetate	2.16	43	52217	39.8851	ppb	86
21) Iodomethane	1.92	142	57977	41.2061	ppb	99
22) Acrylonitrile	2.47	53	28390	43.1704	ppb	92
23) Methylene chloride	2.23	84	69292	41.6402	ppb	92
24) Carbon disulfide	1.97	76	115976	36.6187	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	135915	35.7378	ppb	97
26) Trans-1,2-DCE	2.49	96	65403	40.9242	ppb	96
27) Diisopropyl Ether	3.11	45	141259	40.4356	ppb	95
29) 1,1-DCA	2.95	63	123114	45.2209	ppb	94
30) Vinyl Acetate	3.11	45	141259	40.4356	ppb	95
31) Ethyl tert Butyl Ether	3.61	59	46570	37.3281	ppb	99
32) MEK (2-Butanone)	3.82	43	6170	37.9321	ppb	83
33) Cis-1,2-DCE	3.73	96	57990	40.9810	ppb	95
34) 2,2-Dichloropropane	3.71	77	74598	37.6297	ppb	93
37) Chloroform	4.27	83	104371	36.4526	ppb	97
38) Bromochloromethane	4.09	128	35586	37.3100	ppb	# 63
40) 1,1,1-TCA	4.49	97	92639	37.6924	ppb	97
41) Cyclohexane	4.55	41	33874	38.7012	ppb	93
42) 1,1-Dichloropropene	4.74	75	57129	38.9305	ppb	96
43) 2,2,4-Trimethylpentane	5.20	57	98818	40.9269	ppb	# 82
45) Carbon Tetrachloride	4.72	117	83207	38.2338	ppb	93
46) Tert Amyl Methyl Ether	5.27	73	35618	40.5512	ppb	# 76
48) 1,2-DCA	5.06	62	78306	37.5135	ppb	97
49) Benzene	5.01	78	197673	38.4274	ppb	99
50) TCE	5.90	130	60966	37.1425	ppb	# 88

(#) = qualifier out of range (m) = manual integration
 1023L17.D L1023W.M Thu Nov 21 08:11:57 2019

Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	96879	179.4785	ppb	100
52) 1,2-Dichloropropane	6.17	63	51543	39.4614	ppb	97
53) Bromodichloromethane	6.54	83	79986	38.8861	ppb	100
54) Methyl Cyclohexane	6.13	83	54839	40.4413	ppb	91
55) Dibromomethane	6.30	93	38978	38.3915	ppb	84
57) MIBK (methyl isobutyl ket	7.32	43	28419	41.2613	ppb	99
58) 1-Bromo-2-chloroethane	6.87	63	65748	40.6636	ppb	99
59) Cis-1,3-Dichloropropene	7.09	75	65769	39.2338	ppb	99
60) Toluene	7.45	91	210212	42.6980	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	64204	43.8758	ppb	97
62) 1,1,2-TCA	7.93	83	41949	39.9178	ppb	96
63) 2-Hexanone	8.27	43	10209	37.2405	ppb	# 85
66) 1,2-EDB	8.45	107	50421	41.9928	ppb	85
67) Tetrachloroethene	8.07	166	65893	36.7489	ppb	96
68) 1-Chlorohexane	9.05	91	48711	44.4391	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.13	131	63915	42.2622	ppb	96
70) m&p-Xylene	9.30	91	338863	80.2677	ppb	96
71) o-Xylene	9.73	106	82411	45.9694	ppb	89
72) Styrene	9.74	104	143659	40.1787	ppb	98
74) 1,3-Dichloropropane	8.11	76	75287	40.1118	ppb	100
75) Dibromochloromethane	8.35	129	69172	39.5077	ppb	96
76) Chlorobenzene	9.02	112	145816	38.1204	ppb	93
77) Ethylbenzene	9.17	91	208273	46.1936	ppb	94
78) Bromoform	9.91	173	53731	42.3030	ppb	90
80) Isopropylbenzene	10.15	105	118712	43.2207	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	62668	45.4844	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	22708	40.3407	ppb	97
83) t-1,4-Dichloro-2-Butene	10.53	53	8331	42.8825	ppb	86
84) Bromobenzene	10.43	156	70104	37.7990	ppb	90
85) n-Propylbenzene	10.59	91	233924	40.9506	ppb	97
86) 4-Ethyltoluene	10.72	105	211346	41.2500	ppb	96
87) 2-Chlorotoluene	10.65	91	92128	44.0023	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	199524	50.2579	ppb	98
89) 4-Chlorotoluene	10.78	126	36464	45.6604	ppb	91
90) Tert-Butylbenzene	11.14	119	147955	42.9025	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	180420	40.6587	ppb	99
92) Sec-Butylbenzene	11.37	105	219025	47.1791	ppb	97
93) p-Isopropyltoluene	11.54	119	212481	45.3397	ppb	96
94) Benzyl Chloride	11.71	91	41921	35.0799	ppb	96
95) 1,3-DCB	11.46	146	128229	42.7550	ppb	94
96) 1,4-DCB	11.56	146	139675	38.5822	ppb	98
97) n-Butylbenzene	11.98	91	142488	47.0340	ppb	95
98) 1,2-DCB	11.95	146	114832	38.0984	ppb	94
99) Hexachloroethane	12.23	201	35079	35.3722	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	9108	39.4560	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	47535	40.7746	ppb	81
102) Hexachlorobutadiene	13.90	223	10244	36.6311	ppb	# 71
103) Naphthalene	13.94	128	75231	41.0905	ppb	99
104) 1,2,3-Trichlorobenzene	14.20	182	23960	36.2357	ppb	96

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

1023L17.D L1023W.M Thu Nov 21 08:11:57 2019

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Quantitation Report

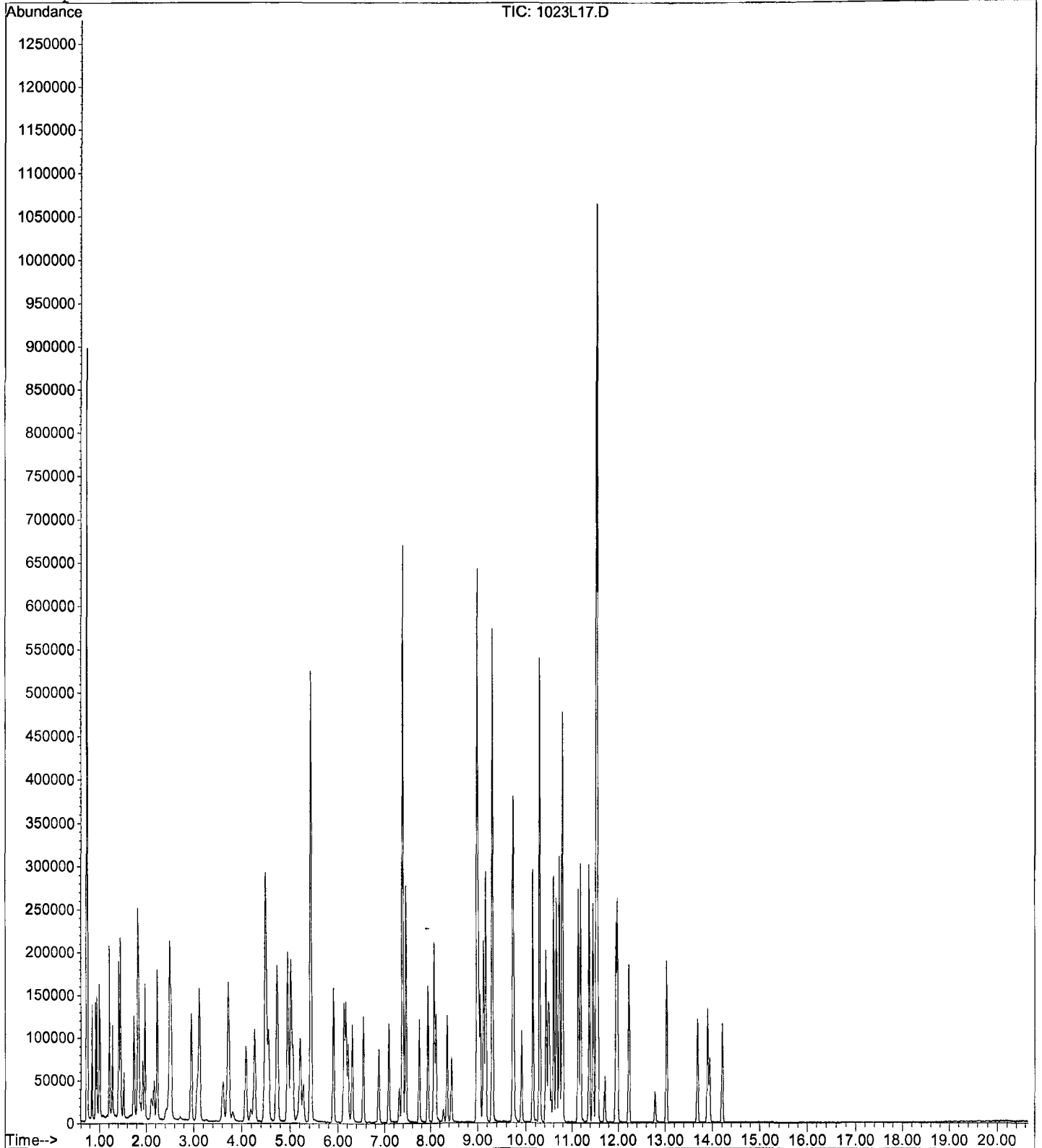
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	239360	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	281593	89.9257	ppb	0.00
Spiked Amount				25.000		
					Recovery = 359.704%	
44) 1,2-DCA-D4 (S)	4.95	65	301257	89.5392	ppb	0.00
Spiked Amount				25.000		
					Recovery = 358.156%	
65) Toluene-D8 (S)	7.38	98	920813	105.7259	ppb	0.00
Spiked Amount				25.000		
					Recovery = 422.904%	
73) 4-Bromofluorobenzene (S)	10.29	95	349610	113.3300	ppb	0.00
Spiked Amount				25.000		
					Recovery = 453.320%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.83	87	58858	100.9246	ppb	89
4) Freon 114	0.91	85	100326	99.0158	ppb	95
5) Chloromethane	0.94	50	164075	100.6879	ppb	99
6) Vinyl chloride	1.01	62	154688	82.6761	ppb	96
8) Bromomethane	1.20	94	171941	79.5330	ppb	99
9) Chloroethane	1.27	64	109740	76.3485	ppb	99
10) Dichlorofluoromethane	1.41	67	276740	76.8571	ppb	100
11) Trichlorofluoromethane	1.44	103	203432	94.8691	ppb	95
13) Acrolein	1.74	56	38124	203.5472	ppb	# 29
14) Acetone	1.88	43	47886	99.3808	ppb	99
15) Freon-113	1.83	101	137071	81.2961	ppb	95
16) 1,1-DCE	1.82	96	131579	99.1554	ppb	98
17) t-Butanol	2.42	59	56335	344.0788	ppb	96
19) Acetonitrile	2.10	41	46267	161.6551	ppb	97
20) Methyl Acetate	2.16	43	112199	87.3733	ppb	95
21) Iodomethane	1.92	142	169897	118.6397	ppb	94
22) Acrylonitrile	2.47	53	61987	98.4189	ppb	89
23) Methylene chloride	2.23	84	159135	99.0274	ppb	97
24) Carbon disulfide	1.97	76	266304	85.3837	ppb	98
25) Methyl t-butyl ether (MtBE)	2.52	73	320920	85.2541	ppb	96
26) Trans-1,2-DCE	2.49	96	155132	99.3476	ppb	98
27) Diisopropyl Ether	3.12	45	344132	99.5245	ppb	99
29) 1,1-DCA	2.95	63	269292	99.9339	ppb	94
30) Vinyl Acetate	3.12	45	344132	99.5245	ppb	99
31) Ethyl tert Butyl Ether	3.62	59	126915	102.7780	ppb	95
32) MEK (2-Butanone)	3.82	43	16476	101.1470	ppb	91
33) Cis-1,2-DCE	3.73	96	138211	99.5018	ppb	92
34) 2,2-Dichloropropane	3.71	77	174471	88.9169	ppb	95
37) Chloroform	4.27	83	242258	85.4840	ppb	94
38) Bromochloromethane	4.09	128	77334	81.9171	ppb	# 65
40) 1,1,1-TCA	4.48	97	220083	90.4700	ppb	99
41) Cyclohexane	4.55	41	87304	100.6304	ppb	81
42) 1,1-Dichloropropene	4.74	75	148550	102.2737	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	267273	111.8369	ppb	# 78
45) Carbon Tetrachloride	4.72	117	199279	92.5139	ppb	98
46) Tert Amyl Methyl Ether	5.27	73	102663	118.0880	ppb	# 86
48) 1,2-DCA	5.05	62	179804	87.0261	ppb	98
49) Benzene	5.01	78	469758	92.2625	ppb	98
50) TCE	5.91	130	147267	90.6457	ppb	91

(#) = qualifier out of range (m) = manual integration
 1023L18.D L1023W.M Thu Nov 21 08:12:00 2019

Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	116946	218.8900	ppb	98
52) 1,2-Dichloropropane	6.17	63	119334	92.3048	ppb	97
53) Bromodichloromethane	6.54	83	184598	90.6703	ppb	96
54) Methyl Cyclohexane	6.13	83	146085	108.8425	ppb	89
55) Dibromomethane	6.30	93	88392	87.9602	ppb	83
57) MIBK (methyl isobutyl ket	7.32	43	70099	102.9020	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	151148	94.4460	ppb	95
59) Cis-1,3-Dichloropropene	7.09	75	164269	99.0039	ppb	94
60) Toluene	7.45	91	512676	105.2084	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	160691	110.9460	ppb	96
62) 1,1,2-TCA	7.93	83	95909	92.2067	ppb	89
63) 2-Hexanone	8.27	43	27810	100.8992	ppb	# 86
66) 1,2-EDB	8.45	107	121094	97.8591	ppb	88
67) Tetrachloroethene	8.07	166	163999	88.7487	ppb	96
68) 1-Chlorohexane	9.06	91	134962	119.4718	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.12	131	152266	98.9558	ppb	89
70) m&p-Xylene	9.31	91	886987	200.5103	ppb	97
71) o-Xylene	9.73	106	219398	118.7494	ppb	94
72) Styrene	9.74	104	378918	100.4312	ppb	98
74) 1,3-Dichloropropane	8.11	76	176562	91.2777	ppb	100
75) Dibromochloromethane	8.35	129	161221	89.3487	ppb	93
76) Chlorobenzene	9.02	112	356125	90.3380	ppb	94
77) Ethylbenzene	9.17	91	538282	115.8441	ppb	95
78) Bromoform	9.91	173	121836	93.0759	ppb	89
80) Isopropylbenzene	10.15	105	323840	109.5581	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	140032	97.4201	ppb	96
82) 1,2,3-Trichloropropane	10.50	110	46087	76.4167	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	20073	96.0090	ppb	100
84) Bromobenzene	10.43	156	171822	86.0861	ppb	96
85) n-Propylbenzene	10.59	91	620871	99.9546	ppb	94
86) 4-Ethyltoluene	10.72	105	559675	99.9320	ppb	96
87) 2-Chlorotoluene	10.65	91	230269	102.1963	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	507278	118.7331	ppb	100
89) 4-Chlorotoluene	10.78	126	98736	114.8862	ppb	92
90) Tert-Butylbenzene	11.14	119	412431	111.1274	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	488409	100.2811	ppb	96
92) Sec-Butylbenzene	11.38	105	593550	118.8036	ppb	97
93) p-Isopropyltoluene	11.54	119	573299	113.6727	ppb	96
94) Benzyl Chloride	11.72	91	130635	101.5787	ppb	94
95) 1,3-DCB	11.46	146	320104	99.1763	ppb	92
96) 1,4-DCB	11.56	146	352781	90.5503	ppb	99
97) n-Butylbenzene	11.98	91	414547	127.1523	ppb	96
98) 1,2-DCB	11.95	146	305584	94.2086	ppb	96
99) Hexachloroethane	12.23	201	110613	101.9197	ppb	96
100) 1,2-Dibromo-3-chloropropan	12.79	75	25043	100.4194	ppb	83
101) 1,2,4-Trichlorobenzene	13.69	180	167192	99.9452	ppb	85
102) Hexachlorobutadiene	13.90	223	31392	102.1316	ppb	# 78
103) Naphthalene	13.94	128	291902	99.9353	ppb	95
104) 1,2,3-Trichlorobenzene	14.21	182	76648	102.2441	ppb	91

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

1023L18.D L1023W.M Thu Nov 21 08:12:00 2019

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Quantitation Report

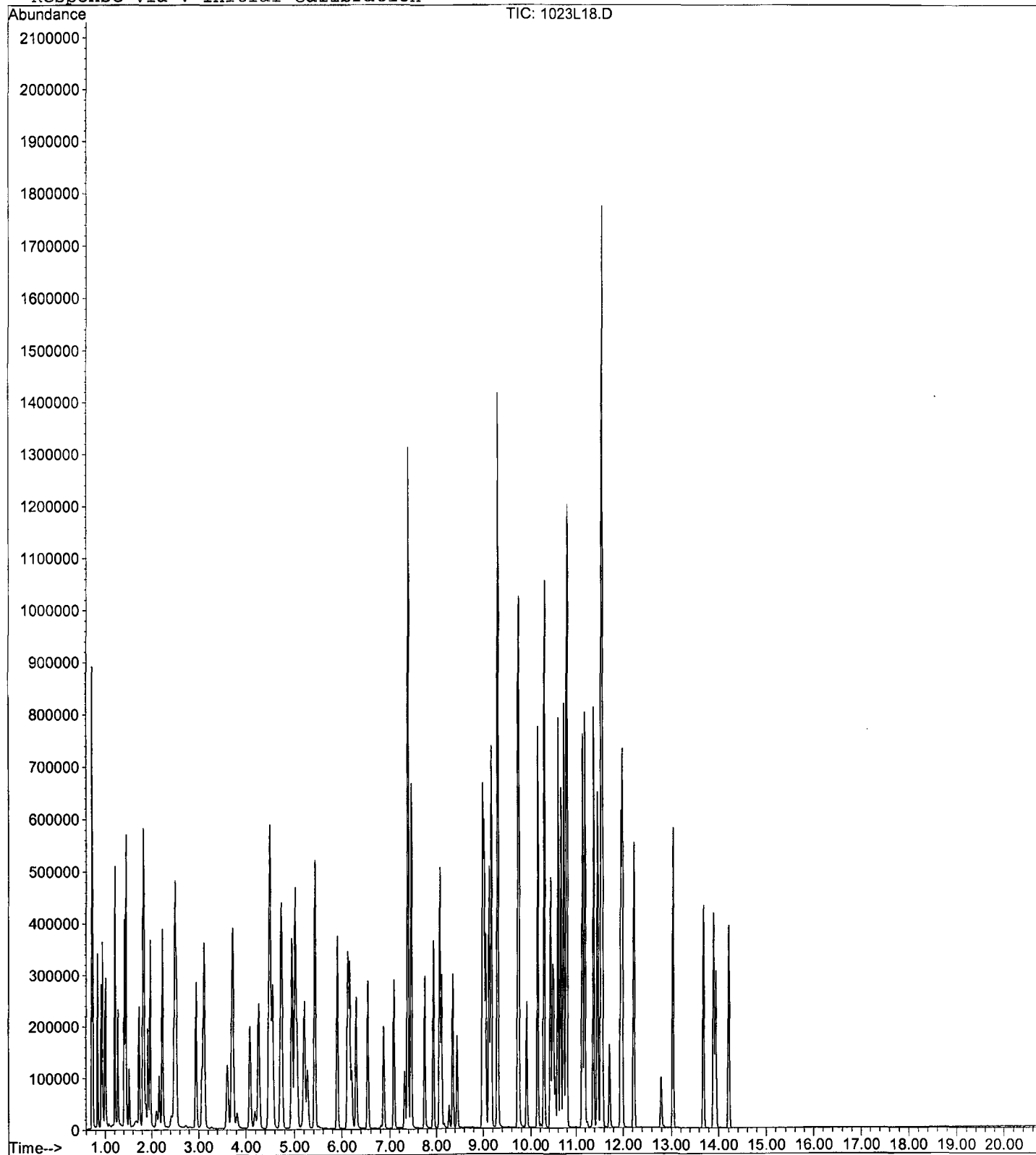
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D		%Drift
1	TML	Dichlorodifluoromethane	0.0636	0.0637	0.06	TML	12
2	TML	Freon 114	0.1338	0.1699	27	TML	58 *
3	TM**L	Chloromethane	0.2092	0.1892	9.6	TM**L	13
4	TM*	Vinyl chloride	0.1839	0.2117	15	TM*	
5	TML	Bromomethane	0.2799	0.2324	17	TML	5.7
6	TML	Chloroethane	0.1659	0.1816	9.4	TML	27 *
7	TM	Dichlorofluoromethane	0.3539	0.3390	4.2	TM	
8	TM	Trichlorofluoromethane	0.2108	0.1987	5.7	TM	
9	TM	Diethyl ether	0.0000	0.0312	0.00	TM	
10	TM	Acrolein	0.0184	0.0198	7.3	TM	
11	TML	Acetone	0.0763	0.0733	4.0	TML	15
12	TM	Freon-113	0.1657	0.1747	5.4	TM	
13	TM*L	1,1-DCE	0.1612	0.1456	9.7	TM*L	1.7
14	TML	t-Butanol	0.0165	0.0133	19	TML	17
15	TM	2-Propanol	0.0000	0.0003	0.00	TM	
16	TM	Acetonitrile	0.0281	0.0211	25	TM	*
17	TML	Methyl Acetate	0.1524	0.1378	9.5	TML	3.3
18	TML	Iodomethane	0.0834	0.1006	21	TML	12
19	TML	Acrylonitrile	0.0844	0.0793	6.1	TML	5.1
20	TML	Methylene chloride	0.2298	0.1948	15	TML	7.3
21	TML	Carbon disulfide	0.3814	0.3663	4.0	TML	17
22	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3594	2.9	TM	
23	TML	Trans-1,2-DCE	0.1832	0.1659	9.4	TML	0.05
24	TM	Diisopropyl Ether	0.3399	0.3666	7.8	TM	
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0012	0.00	TM**	
26	TM**	1,1-DCA	0.2649	0.2738	3.4	TM**	
27	TM	Vinyl Acetate	0.3399	0.3666	7.8	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1314	8.2	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0170	5.2	TML	12
30	TML	Cis-1,2-DCE	0.1575	0.1350	14	TML	6.4
31	TM	2,2-Dichloropropane	0.1929	0.1844	4.4	TM	
32	TM	2-Methylpentane	0.0000	0.0002	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0735	0.00	TM	
34	TM*	Chloroform	0.2786	0.2542	8.8	TM*	
35	TM	Bromochloromethane	0.0928	0.0883	4.9	TM	
36	TM	1,1,1-TCA	0.2391	0.2222	7.1	TM	
37	TML	Cyclohexane	0.0941	0.1069	14	TML	26 *
38	TM	1,1-Dichloropropene	0.1428	0.1312	8.1	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2565	9.2	TM	
40	TM	Carbon Tetrachloride	0.2117	0.2206	4.2	TM	

Average

8.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Tert Amyl Methyl Ether	0.0855	0.0886	3.7	TM	
42	TM	Methylcyclopentane	0.0000	0.0173	0.00	TM	
43	TM	1,2-DCA	0.2031	0.1923	5.3	TM	
44	TM	Benzene	0.5005	0.4393	12	TM	
45	TM	TCE	0.1597	0.1433	10	TM	
46	TM	2-Pentanone	0.0525	0.0415	21	TM	*
47	TM*	1,2-Dichloropropane	0.1271	0.1187	6.6	TM*	
48	TM	Bromodichloromethane	0.2001	0.1961	2.0	TM	
49	TM	Methyl Cyclohexane	0.1319	0.1482	12	TM	
50	TM	Dibromomethane	0.0988	0.0921	6.8	TM	
51	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0692	0.93	TML	2.9
52	TM	1-Bromo-2-chloroethane	0.1573	0.1721	9.4	TM	
53	TM	Cis-1,3-Dichloropropene	0.1631	0.1506	7.6	TM	
54	TM*	Toluene	0.4790	0.4556	4.9	TM*	
55	TM	Trans-1,3-Dichloropropene	0.1424	0.1357	4.6	TM	
56	TM	1,1,2-TCA	0.1022	0.0950	7.1	TM	
57	TML	2-Hexanone	0.0269	0.0282	4.8	TML	12
58	TM	1,2-EDB	0.1292	0.1359	5.1	TM	
59	TM	Tetrachloroethene	0.1930	0.1947	0.90	TM	
60	TM	1-Chlorohexane	0.1180	0.1316	12	TM	
61	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1734	9.0	TML	0.65
62	TML	m&p-Xylene	0.3768	0.3571	5.2	TML	13
63	TM	o-Xylene	0.1930	0.1790	7.3	TM	
64	TML	Styrene	0.2916	0.2878	1.3	TML	13
65	TM	1,3-Dichloropropane	0.2020	0.1898	6.0	TM	
66	TM	Dibromochloromethane	0.1885	0.1895	0.54	TM	
67	TM**	Chlorobenzene	0.4117	0.3876	5.9	TM**	
68	TM*	Ethylbenzene	0.4853	0.4916	1.3	TM*	
69	TM**	Bromoform	0.1367	0.1339	2.1	TM**	
70	TM	Isopropylbenzene	0.5206	0.4731	9.1	TM	
71	TM**L	1,1,1,2-Tetrachloroethane	0.3634	0.3272	10.0	TM**L	5.2
72	TML	1,2,3-Trichloropropane	0.1211	0.1103	8.9	TML	0.53
73	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0354	3.8	TM	
74	TM	Bromobenzene	0.3515	0.3413	2.9	TM	
75	TML	n-Propylbenzene	0.9036	0.9575	6.0	TML	6.0
76	TML	4-Ethyltoluene	0.7832	0.8835	13	TML	0.63
77	TM	2-Chlorotoluene	0.3968	0.4020	1.3	TM	
78	TML	1,3,5-Trimethylbenzene	0.7524	0.7169	4.7	TML	14
79	TM	4-Chlorotoluene	0.1514	0.1524	0.69	TM	
80	TM	Tert-Butylbenzene	0.6536	0.7181	9.9	TM	
Average					6.1		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TML	1,2,4-Trimethylbenzene	0.6824	0.6562	3.8	TML	11
82	TM	Sec-Butylbenzene	0.8799	0.9209	4.7	TM	
83	TM	p-Isopropyltoluene	0.8882	0.8730	1.7	TM	
84	TM	Benzyl Chloride	0.2265	0.1811	20	TM	
85	TM	1,3-DCB	0.5684	0.5675	0.16	TM	
86	TM	1,4-DCB	0.6861	0.6376	7.1	TM	
87	TM	n-Butylbenzene	0.5742	0.5498	4.2	TM	
88	TM	1,2-DCB	0.5713	0.5088	11	TM	
89	TML	Hexachloroethane	0.1724	0.1885	9.3	TML	6.7
90	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0462	2.2	TML	7.5
91	TMQ	1,2,4-Trichlorobenzene	0.1848	0.1984	7.3	TMQ	11
92	TML	Hexachlorobutadiene	0.0602	0.0540	10	TML	10
93	TMQ	Naphthalene	0.2958	0.3015	1.9	TMQ	17
94	TML	1,2,3-Trichlorobenzene	0.1086	0.0728	33	TML	19
95							
96							
97							
98							
99							
100							
101							
102							
103							
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106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120		Average			8.3		

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	242176	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211264	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	108216	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	74313	24.9232	ppb	0.00
Spiked Amount 25.000			Recovery =	99.692%		
44) 1,2-DCA-D4(S)	4.95	65	76856	23.9900	ppb	0.00
Spiked Amount 25.000			Recovery =	95.960%		
65) Toluene-D8(S)	7.38	98	202484	26.3407	ppb	0.00
Spiked Amount 25.000			Recovery =	105.364%		
73) 4-Bromofluorobenzene(S)	10.29	95	69631	25.5735	ppb	0.00
Spiked Amount 25.000			Recovery =	102.292%		
Target Compounds						
3) Dichlorodifluoromethane	0.84	87	6167	11.1587	ppb	92
4) Freon 114	0.91	85	16457	15.8058	ppb	98
5) Chloromethane	0.94	50	18325	11.2994	ppb	97
6) Vinyl chloride	1.01	62	20504	11.5090	ppb	94
8) Bromomethane	1.21	94	22516	10.5658	ppb	96
9) Chloroethane	1.27	64	17588	12.6587	ppb	98
10) Dichlorofluoromethane	1.41	67	32835	9.5769	ppb	98
11) Trichlorofluoromethane	1.45	103	19247	9.4264	ppb	88
13) Acrolein	1.74	56	23915	134.0954	ppb	# 100
14) Acetone	1.87	43	7099	11.5371	ppb	95
15) Freon-113	1.84	101	16924	10.5415	ppb	90
16) 1,1-DCE	1.82	96	14102	10.1735	ppb	93
17) t-Butanol	2.41	59	16098	104.0878	ppb	99
19) Acetonitrile	2.10	41	25491	93.5366	ppb	94
20) Methyl Acetate	2.16	43	13350	10.3294	ppb	86
21) Iodomethane	1.92	142	9741	8.7530	ppb	97
22) Acrylonitrile	2.47	53	7680	10.5067	ppb	# 70
23) Methylene chloride	2.23	84	18868	10.7325	ppb	95
24) Carbon disulfide	1.97	76	35488	11.6680	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	34814	9.7129	ppb	95
26) Trans-1,2-DCE	2.49	96	16072	9.9949	ppb	96
27) Diisopropyl Ether	3.11	45	35508	10.7847	ppb	98
29) 1,1-DCA	2.95	63	26522	10.3365	ppb	91
30) Vinyl Acetate	3.11	45	35508	10.7847	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	12726	10.8232	ppb	97
32) MEK (2-Butanone)	3.81	43	1647	11.2458	ppb	85
33) Cis-1,2-DCE	3.73	96	13075	9.3601	ppb	95
34) 2,2-Dichloropropane	3.72	77	17859	9.5586	ppb	97
37) Chloroform	4.27	83	24623	9.1248	ppb	95
38) Bromochloromethane	4.09	128	8551	9.5126	ppb	73
40) 1,1,1-TCA	4.48	97	21529	9.2943	ppb	95
41) Cyclohexane	4.55	41	10355	12.6135	ppb	95
42) 1,1-Dichloropropene	4.74	75	12713	9.1921	ppb	98
43) 2,2,4-Trimethylpentane	5.20	57	24847	10.9189	ppb	95
45) Carbon Tetrachloride	4.72	117	21365	10.4166	ppb	88
46) Tert Amyl Methyl Ether	5.27	73	8587	10.3731	ppb	# 87
48) 1,2-DCA	5.06	62	18628	9.4688	ppb	100
49) Benzene	5.01	78	42555	8.7777	ppb	91
50) TCE	5.90	130	13885	8.9756	ppb	# 88

(#) = qualifier out of range (m) = manual integration
 1023L20.D L1023W.M Thu Nov 21 08:12:02 2019

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	50296	98.8668	ppb	99
52) 1,2-Dichloropropane	6.16	63	11499	9.3411	ppb	97
53) Bromodichloromethane	6.54	83	18992	9.7968	ppb	97
54) Methyl Cyclohexane	6.13	83	14354	11.2316	ppb	92
55) Dibromomethane	6.30	93	8920	9.3221	ppb	85
57) MIBK (methyl isobutyl ket	7.31	43	6705	10.2911	ppb	97
58) 1-Bromo-2-chloroethane	6.87	63	16669	10.9387	ppb	92
59) Cis-1,3-Dichloropropene	7.08	75	14591	9.2355	ppb	99
60) Toluene	7.45	91	44134	9.5117	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	13150	9.5350	ppb	90
62) 1,1,2-TCA	7.94	83	9202	9.2910	ppb	90
63) 2-Hexanone	8.27	43	2731	11.2215	ppb	# 73
66) 1,2-EDB	8.45	107	11482	10.5129	ppb	# 93
67) Tetrachloroethene	8.07	166	16456	10.0895	ppb	91
68) 1-Chlorohexane	9.05	91	11120	11.1528	ppb	# 85
69) 1,1,1,2-Tetrachloroethane	9.13	131	14657	9.9351	ppb	90
70) m&p-Xylene	9.30	91	60351	17.4697	ppb	97
71) o-Xylene	9.73	106	15124	9.2745	ppb	95
72) Styrene	9.74	104	24322	8.7308	ppb	91
74) 1,3-Dichloropropane	8.11	76	16040	9.3950	ppb	99
75) Dibromochloromethane	8.35	129	16012	10.0540	ppb	88
76) Chlorobenzene	9.02	112	32755	9.4139	ppb	91
77) Ethylbenzene	9.17	91	41541	10.1290	ppb	96
78) Bromoform	9.91	173	11312	9.7910	ppb	93
80) Isopropylbenzene	10.14	105	20480	9.0885	ppb	92
81) 1,1,2,2-Tetrachloroethane	10.47	83	14162	10.5233	ppb	97
82) 1,2,3-Trichloropropane	10.50	110	4774	10.0531	ppb	92
83) t-1,4-Dichloro-2-Butene	10.53	53	1533	9.6182	ppb	# 72
84) Bromobenzene	10.43	156	14772	9.7083	ppb	88
85) n-Propylbenzene	10.59	91	41447	9.4007	ppb	90
86) 4-Ethyltoluene	10.72	105	38245	9.9373	ppb	91
87) 2-Chlorotoluene	10.65	91	17403	10.1315	ppb	87
88) 1,3,5-Trimethylbenzene	10.80	105	31032	8.6180	ppb	98
89) 4-Chlorotoluene	10.78	126	6597	10.0691	ppb	93
90) Tert-Butylbenzene	11.14	119	31086	10.9871	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	28403	8.8651	ppb	94
92) Sec-Butylbenzene	11.38	105	39863	10.4663	ppb	100
93) p-Isopropyltoluene	11.54	119	37788	9.8283	ppb	98
94) Benzyl Chloride	11.71	91	7838	7.9946	ppb	90
95) 1,3-DCB	11.46	146	24567	9.9843	ppb	94
96) 1,4-DCB	11.56	146	27600	9.2927	ppb	98
97) n-Butylbenzene	11.98	91	23799	9.5754	ppb	95
98) 1,2-DCB	11.95	146	22023	8.9061	ppb	99
99) Hexachloroethane	12.23	201	8159	10.6676	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	2001	10.7486	ppb	94
101) 1,2,4-Trichlorobenzene	13.69	180	8588	11.0951	ppb	76
102) Hexachlorobutadiene	13.90	223	2339	11.0448	ppb	# 57
103) Naphthalene	13.94	128	13049	11.7446	ppb	97
104) 1,2,3-Trichlorobenzene	14.21	182	3150	8.1348	ppb	# 79

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

Quantitation Report

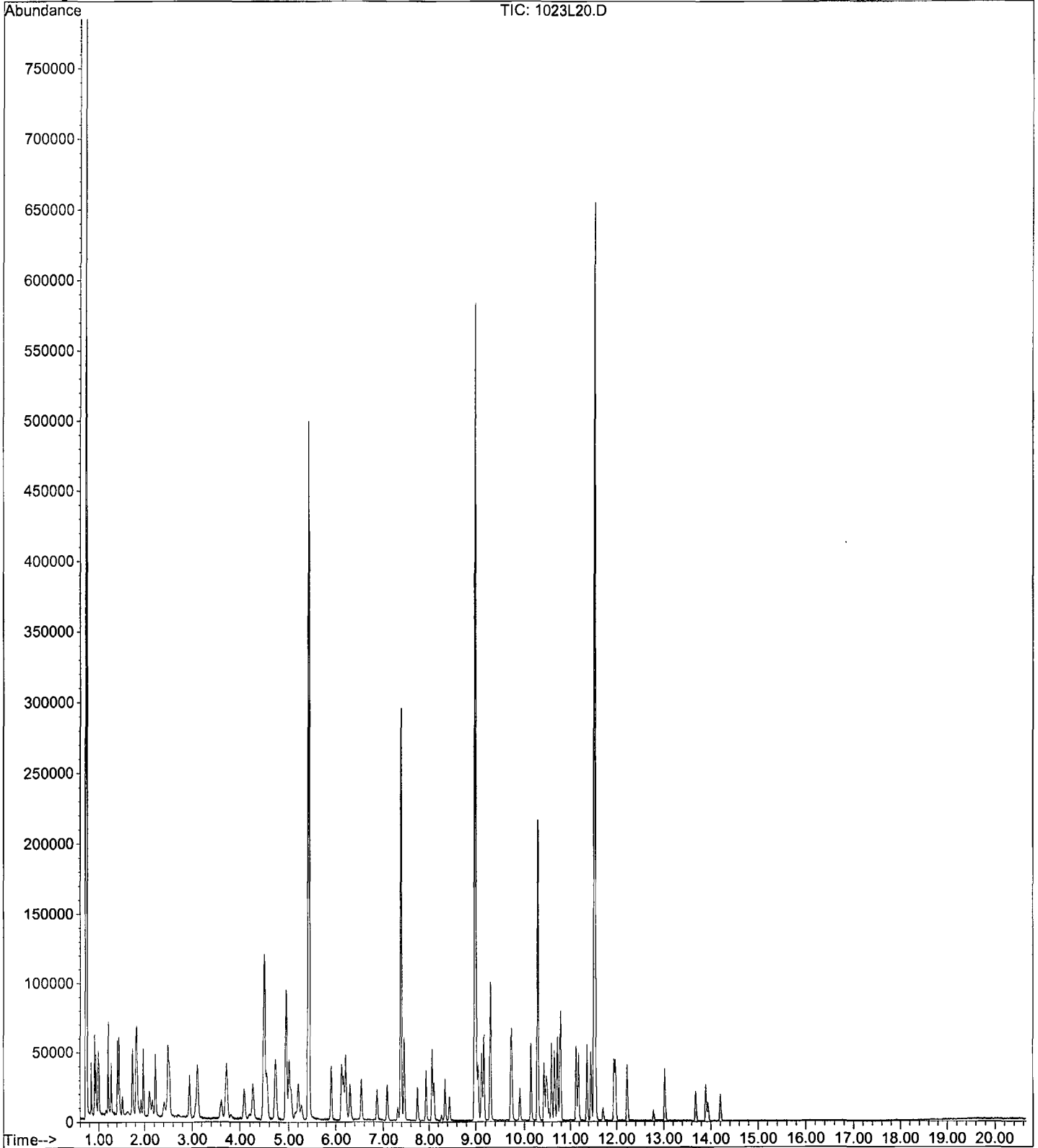
Data File : M:\LOKI\DATA\191023\1023L20.D
Acq On : 24 Oct 19 00:15
Sample : (SS)10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L03.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0454	29	TML	20
3	TML	Freon 114	0.1338	0.0644	52	TML	49 *
4	TM**L	Chloromethane	0.2092	0.1105	47	TM**L	36 *
5	TM*	Vinyl chloride	0.1839	0.1154	37	TM*	*
6	TML	Bromomethane	0.2799	0.1248	55	TML	45 *
7	TML	Chloroethane	0.1659	0.0682	59	TML	54 *
8	TM	Dichlorofluoromethane	0.3539	0.1945	45	TM	*
9	TM	Trichlorofluoromethane	0.2108	0.1724	18	TM	
10	TM	Diethyl ether	0.0000	0.0182	0.00	TM	
11	TM	Acrolein	0.0184	0.0043	77	TM	*
12	TML	Acetone	0.0763	0.0380	50	TML	63 *
13	TM	Freon-113	0.1657	0.1076	35	TM	*
14	TM*L	1,1-DCE	0.1612	0.0840	48	TM*L	46 *
15	TML	t-Butanol	0.0165	0.0048	71	TML	70 *
16	TM	2-Propanol	0.0000	0.0001	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0046	84	TM	*
18	TML	Methyl Acetate	0.1524	0.0626	59	TML	57 *
19	TML	Iodomethane	0.0834	0.0318	62	TML	61 *
20	TML	Acrylonitrile	0.0844	0.0418	50	TML	57 *
21	TML	Methylene chloride	0.2298	0.1190	48	TML	42 *
22	TML	Carbon disulfide	0.3814	0.1245	67	TML	63 *
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.2720	26	TM	*
24	TML	Trans-1,2-DCE	0.1832	0.1029	44	TML	41 *
25	TM	Diisopropyl Ether	0.3399	0.2664	22	TM	*
26	TM**	1,1-DCA	0.2649	0.1950	26	TM**	*
27	TM	Vinyl Acetate	0.3399	0.2664	22	TM	*
28	TM	Ethyl tert Butyl Ether	0.1214	0.1400	15	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0101	44	TML	30 *
30	TML	Cis-1,2-DCE	0.1575	0.1220	23	TML	16
31	TM	2,2-Dichloropropane	0.1929	0.1825	5.4	TM	
32	TM	2-Methylpentane	0.0000	0.0004	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0518	0.00	TM	
34	TM*	Chloroform	0.2786	0.2386	14	TM*	
35	TM	Bromochloromethane	0.0928	0.0805	13	TM	
36	S	Dibromofluoromethane(S)	0.3078	0.3038	1.3	S	
37	TM	1,1,1-TCA	0.2391	0.2351	1.7	TM	
38	TML	Cyclohexane	0.0941	0.0535	43	TML	36 *
39	TM	1,1-Dichloropropene	0.1428	0.1128	21	TM	*
40	TM	2,2,4-Trimethylpentane	0.2349	0.1928	18	TM	
Average					34.2		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L03.D

	Compound	MEAN	CCRF	%D	%Drift
41 S	1,2-DCA-D4(S)	0.3307	0.3567	7.8	S
42 TM	Carbon Tetrachloride	0.2117	0.2084	1.6	TM
43 TM	Tert Amyl Methyl Ether	0.0855	0.1197	40	TM
44 TM	Methylcyclopentane	0.0000	0.0094	0.00	TM
45 TM	1,2-DCA	0.2031	0.1860	8.4	TM
46 TM	Benzene	0.5005	0.4145	17	TM
47 TM	TCE	0.1597	0.1465	8.3	TM
48 TM	2-Pentanone	0.0525	0.0176	66	TM
49 TM*	1,2-Dichloropropane	0.1271	0.1038	18	TM*
50 TM	Bromodichloromethane	0.2001	0.2029	1.4	TM
51 TM	Methyl Cyclohexane	0.1319	0.1166	12	TM
52 TM	Dibromomethane	0.0988	0.0807	18	TM
53 TML	MIBK (methyl isobutyl ketone)	0.0686	0.0685	0.14	TML 1.8
54 TM	1-Bromo-2-chloroethane	0.1573	0.1409	10	TM
55 TM	Cis-1,3-Dichloropropene	0.1631	0.1623	0.48	TM
56 TM*	Toluene	0.4790	0.4703	1.8	TM*
57 TM	Trans-1,3-Dichloropropene	0.1424	0.1516	6.5	TM
58 TM	1,1,2-TCA	0.1022	0.0952	6.9	TM
59 TML	2-Hexanone	0.0269	0.0225	16	TML 8.6
60 I	Chlorobenzene-D5 (IS)	ISTD			I
61 S	Toluene-D8(S)	0.9097	1.000	10.0	S
62 TM	1,2-EDB	0.1292	0.1246	3.6	TM
63 TM	Tetrachloroethene	0.1930	0.1841	4.6	TM
64 TM	1-Chlorohexane	0.1180	0.1160	1.7	TM
65 TML	1,1,1,2-Tetrachloroethane	0.1907	0.1861	2.4	TML 7.3
66 TML	m&p-Xylene	0.3768	0.4089	8.5	TML 1.6
67 TM	o-Xylene	0.1930	0.2006	3.9	TM
68 TML	Styrene	0.2916	0.3141	7.7	TML 6.1
69 S	4-Bromofluorobenzene(S)	0.3222	0.3757	17	S
70 TM	1,3-Dichloropropane	0.2020	0.1934	4.3	TM
71 TM	Dibromochloromethane	0.1885	0.1874	0.54	TM
72 TM**	Chlorobenzene	0.4117	0.3804	7.6	TM**
73 TM*	Ethylbenzene	0.4853	0.5282	8.8	TM*
74 TM**	Bromoform	0.1367	0.1436	5.1	TM**
75 I	1,4-Dichlorobenzene-D (IS)	ISTD			I
76 TM	Isopropylbenzene	0.5206	0.5363	3.0	TM
77 TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2852	22	TM**L 12
78 TML	1,2,3-Trichloropropane	0.1211	0.1016	16	TML 7.7
79 TM	t-1,4-Dichloro-2-Butene	0.0368	0.0367	0.27	TM
80 TM	Bromobenzene	0.3515	0.3428	2.5	TM
Average				9.7	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L03.D

		Compound	MEAN	CCRF	%D	%Drift
81	TML	n-Propylbenzene	0.9036	1.009	12	TML 1.3
82	TML	4-Ethyltoluene	0.7832	0.8801	12	TML 0.97
83	TM	2-Chlorotoluene	0.3968	0.4034	1.6	TM
84	TML	1,3,5-Trimethylbenzene	0.7524	0.8289	10	TML 1.5
85	TM	4-Chlorotoluene	0.1514	0.1566	3.5	TM
86	TM	Tert-Butylbenzene	0.6536	0.7519	15	TM
87	TML	1,2,4-Trimethylbenzene	0.6824	0.8070	18	TML 6.0
88	TM	Sec-Butylbenzene	0.8799	0.9652	9.7	TM
89	TM	p-Isopropyltoluene	0.8882	0.9128	2.8	TM
90	TM	Benzyl Chloride	0.2265	0.2257	0.34	TM
91	TM	1,3-DCB	0.5684	0.6066	6.7	TM
92	TM	1,4-DCB	0.6861	0.6426	6.3	TM
93	TM	n-Butylbenzene	0.5742	0.6389	11	TM
94	TM	1,2-DCB	0.5713	0.6003	5.1	TM
95	TML	Hexachloroethane	0.1724	0.2546	48	TML 41*
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0453	4.0	TML 5.5
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.3120	69	TMQ 66*
98	TML	Hexachlorobutadiene	0.0602	0.0931	55	TML 82*
99	TMQ	Naphthalene	0.2958	0.4074	38	TMQ 52*
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1555	43	TML 42*
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

18.6

Data File : M:\LOKI\DATA\191023\1028L03.D
 Acq On : 28 Oct 19 7:21
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 3
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	288128	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	277760	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	154752	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.49	111	87528	24.6735	ppb	0.00
Spiked Amount 25.000			Recovery =	98.696%		
44) 1,2-DCA-D4(S)	4.95	65	102768	26.9623	ppb	0.00
Spiked Amount 25.000			Recovery =	107.848%		
65) Toluene-D8(S)	7.38	98	277825	27.4893	ppb	0.00
Spiked Amount 25.000			Recovery =	109.956%		
73) 4-Bromofluorobenzene(S)	10.29	95	104364	29.1537	ppb	0.00
Spiked Amount 25.000			Recovery =	116.616%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	5229	7.9696	ppb	82
4) Freon 114	0.91	85	7423	5.0533	ppb	94
5) Chloromethane	0.94	50	12731	6.3574	ppb	95
6) Vinyl chloride	1.01	62	13295	6.2724	ppb	95
8) Bromomethane	1.21	94	14383	5.4731	ppb	96
9) Chloroethane	1.27	64	7858	4.6094	ppb	99
10) Dichlorofluoromethane	1.41	67	22422	5.4968	ppb	94
11) Trichlorofluoromethane	1.45	103	19871	8.1799	ppb	91
13) Acrolein	1.74	56	6180	29.1258	ppb	# 72
14) Acetone	1.88	43	4385	3.7485	ppb	# 88
15) Freon-113	1.83	101	12399	6.4913	ppb	94
16) 1,1-DCE	1.82	96	9681	5.3998	ppb	95
17) t-Butanol	2.44	59	6856	38.0203	ppb	# 89
19) Acetonitrile	2.11	41	6651	20.5129	ppb	94
20) Methyl Acetate	2.16	43	7220	4.3284	ppb	89
21) Iodomethane	1.92	142	3668	3.9407	ppb	98
22) Acrylonitrile	2.47	53	4819	4.2920	ppb	88
23) Methylene chloride	2.23	84	13716	5.8474	ppb	96
24) Carbon disulfide	1.97	76	14348	3.7488	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.52	73	31344	7.3501	ppb	# 90
26) Trans-1,2-DCE	2.49	96	11865	5.8550	ppb	91
27) Diisopropyl Ether	3.10	45	30707	7.8391	ppb	# 80
29) 1,1-DCA	2.94	63	22470	7.3606	ppb	91
30) Vinyl Acetate	3.10	45	30707	7.8391	ppb	# 80
31) Ethyl tert Butyl Ether	3.60	59	16134	11.5333	ppb	94
32) MEK (2-Butanone)	3.82	43	1167	6.9808	ppb	92
33) Cis-1,2-DCE	3.73	96	14064	8.4064	ppb	93
34) 2,2-Dichloropropane	3.71	77	21030	9.4607	ppb	# 90
37) Chloroform	4.26	83	27494	8.5638	ppb	95
38) Bromochloromethane	4.09	128	9283	8.6799	ppb	# 68
40) 1,1,1-TCA	4.48	97	27094	9.8314	ppb	88
41) Cyclohexane	4.55	41	6170	6.3619	ppb	79
42) 1,1-Dichloropropene	4.74	75	13003	7.9024	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	22220	8.2072	ppb	83
45) Carbon Tetrachloride	4.72	117	24019	9.8429	ppb	100
46) Tert Amyl Methyl Ether	5.27	73	13801	14.0128	ppb	# 86
48) 1,2-DCA	5.05	62	21439	9.1596	ppb	93
49) Benzene	5.01	78	47777	8.2831	ppb	97
50) TCE	5.90	130	16879	9.1709	ppb	# 86

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

Data File : M:\LOKI\DATA\191023\1028L03.D
 Acq On : 28 Oct 19 7:21
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 3
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	25410	41.9824	ppb	99
52) 1,2-Dichloropropane	6.16	63	11965	8.1695	ppb	96
53) Bromodichloromethane	6.54	83	23383	10.1382	ppb #	96
54) Methyl Cyclohexane	6.13	83	13441	8.8399	ppb	91
55) Dibromomethane	6.30	93	9298	8.1674	ppb	89
57) MIBK (methyl isobutyl ket	7.31	43	7893	10.1819	ppb #	93
58) 1-Bromo-2-chloroethane	6.87	63	16241	8.9581	ppb	99
59) Cis-1,3-Dichloropropene	7.09	75	18707	9.9523	ppb	92
60) Toluene	7.45	91	54207	9.8194	ppb	95
61) Trans-1,3-Dichloropropene	7.74	75	17474	10.6496	ppb	95
62) 1,1,2-TCA	7.93	83	10968	9.3079	ppb	76
63) 2-Hexanone	8.27	43	2594	9.1420	ppb #	81
66) 1,2-EDB	8.45	107	13844	9.6410	ppb	85
67) Tetrachloroethene	8.07	166	20449	9.5362	ppb	93
68) 1-Chlorohexane	9.05	91	12883	9.8277	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.12	131	20674	10.7289	ppb	93
70) m&p-Xylene	9.30	91	90858	19.6878	ppb	98
71) o-Xylene	9.73	106	22282	10.3929	ppb	99
72) Styrene	9.74	104	34903	9.3888	ppb	96
74) 1,3-Dichloropropane	8.11	76	21489	9.5734	ppb	99
75) Dibromochloromethane	8.35	129	20825	9.9457	ppb	96
76) Chlorobenzene	9.02	112	42267	9.2396	ppb	93
77) Ethylbenzene	9.17	91	58690	10.8845	ppb	93
78) Bromoform	9.91	173	15960	10.5069	ppb	85
80) Isopropylbenzene	10.14	105	33200	10.3028	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	17656	8.8195	ppb	90
82) 1,2,3-Trichloropropane	10.50	110	6288	9.2293	ppb	87
83) t-1,4-Dichloro-2-Butene	10.53	53	2273	9.9725	ppb	85
84) Bromobenzene	10.43	156	21219	9.7518	ppb	92
85) n-Propylbenzene	10.59	91	62441	9.8656	ppb	99
86) 4-Ethyltoluene	10.72	105	54480	9.9031	ppb	96
87) 2-Chlorotoluene	10.65	91	24968	10.1646	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	51311	9.8549	ppb	97
89) 4-Chlorotoluene	10.78	126	9693	10.3456	ppb	92
90) Tert-Butylbenzene	11.14	119	46544	11.5037	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	49955	10.6007	ppb	96
92) Sec-Butylbenzene	11.37	105	59747	10.9697	ppb	99
93) p-Isopropyltoluene	11.54	119	56505	10.2770	ppb	93
94) Benzyl Chloride	11.72	91	13973	9.9664	ppb	98
95) 1,3-DCB	11.46	146	37549	10.6714	ppb	92
96) 1,4-DCB	11.56	146	39779	9.3658	ppb	98
97) n-Butylbenzene	11.98	91	39548	11.1271	ppb	89
98) 1,2-DCB	11.95	146	37158	10.5079	ppb	96
99) Hexachloroethane	12.23	201	15758	14.0945	ppb #	81
100) 1,2-Dibromo-3-chloropropan	12.79	75	2807	10.5486	ppb	85
101) 1,2,4-Trichlorobenzene	13.69	180	19314	16.5806	ppb	84
102) Hexachlorobutadiene	13.90	223	5762	18.1752	ppb #	71
103) Naphthalene	13.94	128	25217	15.1593	ppb	96
104) 1,2,3-Trichlorobenzene	14.21	182	9628	14.2338	ppb	92

(#) = qualifier out of range (m) = manual integration
 1028L03.D L1023W.M Thu Nov 21 08:13:09 2019

Quantitation Report

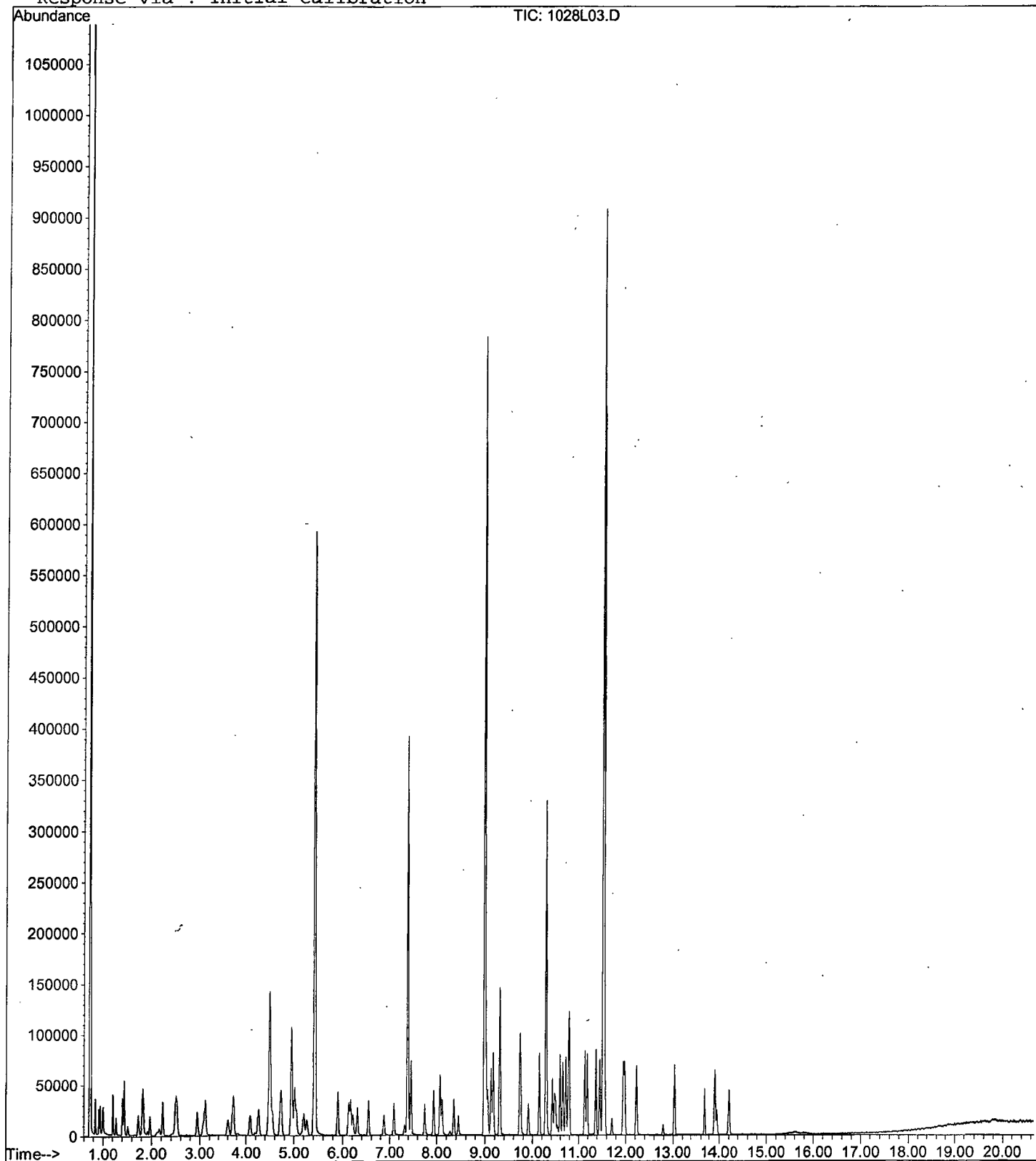
Data File : M:\LOKI\DATA\191023\1028L03.D
Acq On : 28 Oct 19 7:21
Sample : 191028A CCV/LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 3
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L45.D
 Acq On : 29 Oct 19 7:01
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 45
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	282752	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	277184	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	157696	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86542	24.8594	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.436%	
44) 1,2-DCA-D4(S)	4.95	65	105227	28.1323	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.528%	
65) Toluene-D8(S)	7.38	98	275013	27.2676	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.072%	
73) 4-Bromofluorobenzene(S)	10.28	95	101727	28.4761	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.904%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	6873	10.6542	ppb	85
4) Freon 114	0.91	85	14685	11.7234	ppb	98
5) Chloromethane	0.94	50	15543	8.0504	ppb	94
6) Vinyl chloride	1.01	62	14811	7.1205	ppb	90
8) Bromomethane	1.21	94	18044	7.1169	ppb	97
9) Chloroethane	1.27	64	9697	5.8558	ppb	96
10) Dichlorofluoromethane	1.41	67	27103	6.7707	ppb	95
11) Trichlorofluoromethane	1.45	103	21609	9.0645	ppb	95
13) Acrolein	1.74	56	12849	61.7075	ppb	# 91
14) Acetone	1.88	43	5798	6.6699	ppb	# 84
15) Freon-113	1.83	101	14687	7.8354	ppb	97
16) 1,1-DCE	1.82	96	14606	8.8994	ppb	96
17) t-Butanol	2.45	59	13812	76.8048	ppb	# 80
19) Acetonitrile	2.11	41	19279	60.5905	ppb	89
20) Methyl Acetate	2.16	43	8431	5.2783	ppb	97
21) Iodomethane	1.92	142	3418	3.8283	ppb	# 85
22) Acrylonitrile	2.47	53	4988	4.6717	ppb	84
23) Methylene chloride	2.23	84	16605	7.6402	ppb	96
24) Carbon disulfide	1.97	76	30272	8.4365	ppb	# 91
25) Methyl t-butyl ether (MtBE)	2.52	73	33393	7.9795	ppb	92
26) Trans-1,2-DCE	2.49	96	16600	8.7364	ppb	89
27) Diisopropyl Ether	3.11	45	37875	9.8528	ppb	# 87
29) 1,1-DCA	2.95	63	27173	9.0705	ppb	# 88
30) Vinyl Acetate	3.11	45	37875	9.8528	ppb	# 87
31) Ethyl tert Butyl Ether	3.61	59	16776	12.2202	ppb	91
32) MEK (2-Butanone)	3.83	43	1352	8.1148	ppb	# 67
33) Cis-1,2-DCE	3.73	96	16001	9.8391	ppb	96
34) 2,2-Dichloropropane	3.71	77	19614	8.9914	ppb	95
37) Chloroform	4.27	83	33052	10.4907	ppb	91
38) Bromochloromethane	4.09	128	10311	9.8244	ppb	75
40) 1,1,1-TCA	4.48	97	31029	11.4733	ppb	96
41) Cyclohexane	4.55	41	9112	9.5287	ppb	# 77
42) 1,1-Dichloropropene	4.74	75	17303	10.7156	ppb	92
43) 2,2,4-Trimethylpentane	5.20	57	26627	10.0220	ppb	86
45) Carbon Tetrachloride	4.72	117	28729	11.9969	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	12849	13.2942	ppb	# 88
48) 1,2-DCA	5.05	62	24564	10.6943	ppb	92
49) Benzene	5.01	78	55136	9.7407	ppb	98
50) TCE	5.90	130	19317	10.6951	ppb	# 92

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

Data File : M:\LOKI\DATA\191023\1028L45.D
 Acq On : 29 Oct 19 7:01
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 45
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	62412	105.0777	ppb	94
52) 1,2-Dichloropropane	6.17	63	13298	9.2523	ppb	100
53) Bromodichloromethane	6.54	83	23410	10.3429	ppb	87
54) Methyl Cyclohexane	6.12	83	17068	11.4387	ppb	95
55) Dibromomethane	6.30	93	10581	9.4711	ppb	82
57) MIBK (methyl isobutyl ket	7.31	43	6470	8.4965	ppb	# 86
58) 1-Bromo-2-chloroethane	6.87	63	17112	9.6180	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	19471	10.5557	ppb	96
60) Toluene	7.45	91	64919	11.9834	ppb	95
61) Trans-1,3-Dichloropropene	7.75	75	18621	11.5645	ppb	97
62) 1,1,2-TCA	7.93	83	11041	9.5480	ppb	86
63) 2-Hexanone	8.27	43	2442	8.8069	ppb	# 82
66) 1,2-EDB	8.45	107	13980	9.7559	ppb	# 81
67) Tetrachloroethene	8.07	166	23003	10.7495	ppb	97
68) 1-Chlorohexane	9.05	91	14456	11.0506	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.12	131	20951	10.9101	ppb	95
70) m&p-Xylene	9.30	91	96333	20.7814	ppb	98
71) o-Xylene	9.72	106	22540	10.5350	ppb	82
72) Styrene	9.74	104	36364	9.7344	ppb	100
74) 1,3-Dichloropropane	8.11	76	20385	9.1004	ppb	96
75) Dibromochloromethane	8.35	129	19605	9.3825	ppb	95
76) Chlorobenzene	9.01	112	45498	9.9665	ppb	91
77) Ethylbenzene	9.17	91	64427	11.9733	ppb	96
78) Bromoform	9.91	173	16184	10.6765	ppb	89
80) Isopropylbenzene	10.15	105	37096	11.2970	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.47	83	16470	7.8394	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	6593	9.5073	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	1751	7.5389	ppb	84
84) Bromobenzene	10.43	156	21110	9.5206	ppb	94
85) n-Propylbenzene	10.59	91	63801	9.8904	ppb	98
86) 4-Ethyltoluene	10.72	105	54565	9.7518	ppb	96
87) 2-Chlorotoluene	10.65	91	25704	10.2688	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	55281	10.3790	ppb	93
89) 4-Chlorotoluene	10.78	126	9266	9.7052	ppb	78
90) Tert-Butylbenzene	11.14	119	52321	12.6901	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	48714	10.2010	ppb	99
92) Sec-Butylbenzene	11.37	105	61416	11.0656	ppb	99
93) p-Isopropyltoluene	11.54	119	58019	10.3554	ppb	93
94) Benzyl Chloride	11.72	91	10188	7.1310	ppb	97
95) 1,3-DCB	11.46	146	38249	10.6674	ppb	96
96) 1,4-DCB	11.56	146	40701	9.4040	ppb	98
97) n-Butylbenzene	11.98	91	39648	10.9469	ppb	99
98) 1,2-DCB	11.95	146	36195	10.0445	ppb	95
99) Hexachloroethane	12.23	201	16507	14.4638	ppb	# 82
100) 1,2-Dibromo-3-chloropropan	12.78	75	2583	9.5498	ppb	# 61
101) 1,2,4-Trichlorobenzene	13.69	180	16863	14.4655	ppb	89
102) Hexachlorobutadiene	13.90	223	5207	16.2513	ppb	79
103) Naphthalene	13.94	128	19496	11.9975	ppb	91
104) 1,2,3-Trichlorobenzene	14.21	182	7245	11.2360	ppb	# 85

(#) = qualifier out of range (m) = manual integration
 1028L45.D L1023W.M Thu Nov 21 08:13:25 2019

Quantitation Report

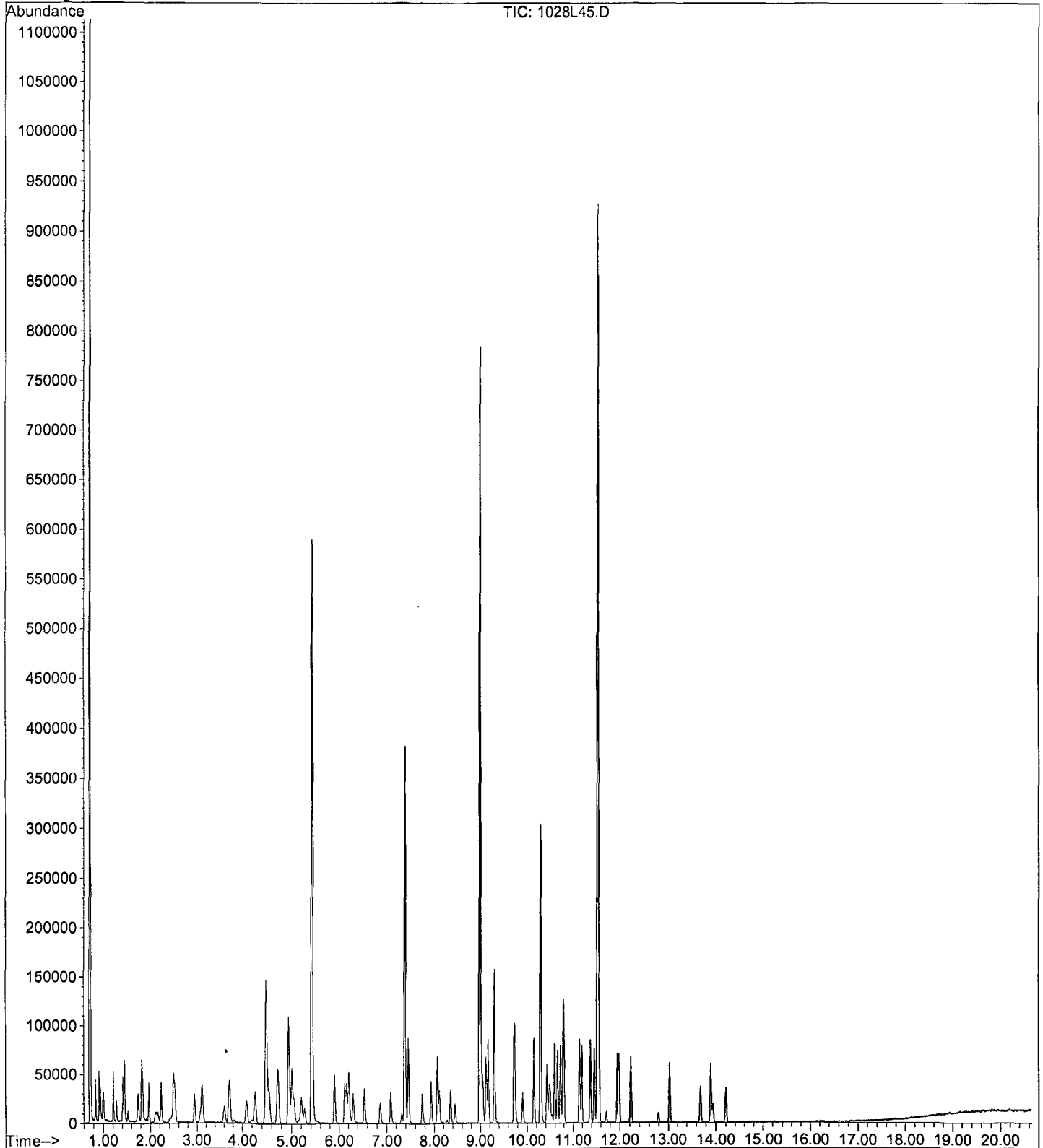
Data File : M:\LOKI\DATA\191023\1028L45.D
Acq On : 29 Oct 19 7:01
Sample : Ending CCV 10ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 45
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L18.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TML Dichlorodifluoromethane	0.0636	0.0471	26	TML 17
3	TML Freon 114	0.1338	0.0586	56	TML 55 *
4	TM**L Chloromethane	0.2092	0.1054	50	TM**L 40
5	TM* Vinyl chloride	0.1839	0.1078	41	TM*
6	TML Bromomethane	0.2799	0.1206	57	TML 47
7	TML Chloroethane	0.1659	0.0734	56	TML 50
8	TM Dichlorofluoromethane	0.3539	0.1899	46	TM
9	TM Trichlorofluoromethane	0.2108	0.1683	20	TM
10	TM Diethyl ether	0.0000	0.0201	0.00	TM
11	TM Acrolein	0.0184	0.0121	34	TM
12	TML Acetone	0.0763	0.0525	31	TML 31
13	TM Freon-113	0.1657	0.0968	42	TM
14	TM*L 1,1-DCE	0.1612	0.0866	46	TM*L 44
15	TML t-Butanol	0.0165	0.0132	20	TML 17
16	TM 2-Propanol	0.0000	0.0001	0.00	TM
17	TM Acetonitrile	0.0281	0.0153	46	TM
18	TML Methyl Acetate	0.1524	0.0775	49	TML 45
19	TML Iodomethane	0.0834	0.0282	66	TML 63 *
20	TML Acrylonitrile	0.0844	0.0474	44	TML 48
21	TML Methylene chloride	0.2298	0.1163	49	TML 43
22	TML Carbon disulfide	0.3814	0.1217	68	TML 63 *
23	TM Methyl t-butyl ether (MtBE)	0.3700	0.3219	13	TM
24	TML Trans-1,2-DCE	0.1832	0.0977	47	TML 45
25	TM Diisopropyl Ether	0.3399	0.2642	22	TM
26	TM** 1,1-DCA	0.2649	0.1899	28	TM**
27	TM Vinyl Acetate	0.3399	0.2642	22	TM
28	TM Ethyl tert Butyl Ether	0.1214	0.1741	43	TM
29	TML MEK (2-Butanone)	0.0179	0.0144	20	TML 3.8
30	TML Cis-1,2-DCE	0.1575	0.1236	22	TML 15
31	TM 2,2-Dichloropropane	0.1929	0.1505	22	TM
32	TM 2-Methylpentane	0.0000	0.0002	0.00	TM
33	TM 3-Methylpentane	0.0000	0.0605	0.00	TM
34	TM* Chloroform	0.2786	0.2442	12	TM*
35	TM Bromochloromethane	0.0928	0.0767	17	TM
36	S Dibromofluoromethane(S)	0.3078	0.2962	3.8	S
37	TM 1,1,1-TCA	0.2391	0.2381	0.44	TM
38	TML Cyclohexane	0.0941	0.0466	50	TML 44
39	TM 1,1-Dichloropropene	0.1428	0.1195	16	TM
40	TM 2,2,4-Trimethylpentane	0.2349	0.1648	30	TM

Average

31.2

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L18.D

		Compound	MEAN	CCRF	%D	%Drift	
41	S	1,2-DCA-D4(S)	0.3307	0.3502	5.9	S	
42	TM	Carbon Tetrachloride	0.2117	0.2150	1.5	TM	
43	TM	Tert Amyl Methyl Ether	0.0855	0.1532	79	TM	*
44	TM	Methylcyclopentane	0.0000	0.0107	0.00	TM	
45	TM	1,2-DCA	0.2031	0.1917	5.6	TM	
46	TM	Benzene	0.5005	0.3923	22	TM	
47	TM	TCE	0.1597	0.1452	9.1	TM	
48	TM	2-Pentanone	0.0525	0.0601	14	TM	
49	TM*	1,2-Dichloropropane	0.1271	0.1077	15	TM*	
50	TM	Bromodichloromethane	0.2001	0.1962	2.0	TM	
51	TM	Methyl Cyclohexane	0.1319	0.1051	20	TM	
52	TM	Dibromomethane	0.0988	0.0937	5.2	TM	
53	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0739	7.8	TML	9.9
54	TM	1-Bromo-2-chloroethane	0.1573	0.1437	8.7	TM	
55	TM	Cis-1,3-Dichloropropene	0.1631	0.1594	2.2	TM	
56	TM*	Toluene	0.4790	0.4727	1.3	TM*	
57	TM	Trans-1,3-Dichloropropene	0.1424	0.1568	10	TM	
58	TM	1,1,2-TCA	0.1022	0.1020	0.23	TM	
59	TML	2-Hexanone	0.0269	0.0362	35	TML	42
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	0.9097	0.9525	4.7	S	
62	TM	1,2-EDB	0.1292	0.1256	2.8	TM	
63	TM	Tetrachloroethene	0.1930	0.1708	12	TM	
64	TM	1-Chlorohexane	0.1180	0.1139	3.4	TM	
65	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1716	10	TML	1.8
66	TML	m&p-Xylene	0.3768	0.3866	2.6	TML	6.3
67	TM	o-Xylene	0.1930	0.1968	2.0	TM	
68	TML	Styrene	0.2916	0.3273	12	TML	2.8
69	S	4-Bromofluorobenzene(S)	0.3222	0.3558	10	S	
70	TM	1,3-Dichloropropane	0.2020	0.1871	7.4	TM	
71	TM	Dibromochloromethane	0.1885	0.1804	4.3	TM	
72	TM**	Chlorobenzene	0.4117	0.3846	6.6	TM**	
73	TM*	Ethylbenzene	0.4853	0.5080	4.7	TM*	
74	TM**	Bromoform	0.1367	0.1542	13	TM**	
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	0.5206	0.5016	3.6	TM	
77	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2866	21	TM**L	11
78	TML	1,2,3-Trichloropropane	0.1211	0.1095	9.6	TML	0.25
79	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0429	16	TM	
80	TM	Bromobenzene	0.3515	0.3280	6.7	TM	

Average

10.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L18.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	n-Propylbenzene	0.9036	0.9542	5.6	TML	6.3
82	TML	4-Ethyltoluene	0.7832	0.8093	3.3	TML	8.1
83	TM	2-Chlorotoluene	0.3968	0.3669	7.5	TM	
84	TML	1,3,5-Trimethylbenzene	0.7524	0.7534	0.13	TML	9.8
85	TM	4-Chlorotoluene	0.1514	0.1474	2.6	TM	
86	TM	Tert-Butylbenzene	0.6536	0.6883	5.3	TM	
87	TML	1,2,4-Trimethylbenzene	0.6824	0.7030	3.0	TML	6.0
88	TM	Sec-Butylbenzene	0.8799	0.9240	5.0	TM	
89	TM	p-Isopropyltoluene	0.8882	0.8450	4.9	TM	
90	TM	Benzyl Chloride	0.2265	0.1972	13	TM	
91	TM	1,3-DCB	0.5684	0.5620	1.1	TM	
92	TM	1,4-DCB	0.6861	0.5884	14	TM	
93	TM	n-Butylbenzene	0.5742	0.5644	1.7	TM	
94	TM	1,2-DCB	0.5713	0.5376	5.9	TM	
95	TML	Hexachloroethane	0.1724	0.2342	36	TML	30
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0533	13	TML	24
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2892	56	TMQ	55*
98	TML	Hexachlorobutadiene	0.0602	0.0737	22	TML	46
99	TMQ	Naphthalene	0.2958	0.4949	67	TMQ	78*
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1430	32	TML	33
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

15.0

Data File : M:\LOKI\DATA\191023\1028L18.D
 Acq On : 28 Oct 19 18:14
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	295168	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	290048	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	165376	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	87436	24.0597	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.240%	
44) 1,2-DCA-D4(S)	4.94	65	103367	26.4726	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.892%	
65) Toluene-D8(S)	7.38	98	276257	26.1761	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.704%	
73) 4-Bromofluorobenzene(S)	10.28	95	103210	27.6099	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.440%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.83	87	5562	8.2727	ppb	99
4) Freon 114	0.91	85	6924	4.4658	ppb	99
5) Chloromethane	0.94	50	12441	6.0377	ppb	98
6) Vinyl chloride	1.01	62	12729	5.8621	ppb	97
8) Bromomethane	1.21	94	14237	5.2738	ppb	94
9) Chloroethane	1.27	64	8663	4.9780	ppb	99
10) Dichlorofluoromethane	1.41	67	22422	5.3657	ppb	94
11) Trichlorofluoromethane	1.45	103	19875	7.9864	ppb	84
13) Acrolein	1.74	56	17875	82.2340	ppb	# 78
14) Acetone	1.87	43	6195	6.9365	ppb	89
15) Freon-113	1.83	101	11423	5.8377	ppb	94
16) 1,1-DCE	1.82	96	10229	5.6043	ppb	90
17) t-Butanol	2.41	59	19466	103.2775	ppb	97
19) Acetonitrile	2.10	41	22511	67.7722	ppb	94
20) Methyl Acetate	2.16	43	9145	5.5108	ppb	99
21) Iodomethane	1.92	142	3328	3.6859	ppb	90
22) Acrylonitrile	2.47	53	5599	5.2224	ppb	96
23) Methylene chloride	2.23	84	13726	5.6699	ppb	98
24) Carbon disulfide	1.97	76	14370	3.6577	ppb	99
25) Methyl t-butyl ether (MtBE)	2.52	73	38004	8.6993	ppb	91
26) Trans-1,2-DCE	2.49	96	11532	5.5081	ppb	94
27) Diisopropyl Ether	3.11	45	31196	7.7740	ppb	# 88
29) 1,1-DCA	2.95	63	22421	7.1694	ppb	87
30) Vinyl Acetate	3.11	45	31196	7.7740	ppb	# 88
31) Ethyl tert Butyl Ether	3.60	59	20553	14.3417	ppb	95
32) MEK (2-Butanone)	3.81	43	1697	9.6152	ppb	# 82
33) Cis-1,2-DCE	3.72	96	14592	8.5215	ppb	90
34) 2,2-Dichloropropane	3.71	77	17768	7.8026	ppb	# 89
37) Chloroform	4.27	83	28834	8.7670	ppb	97
38) Bromochloromethane	4.09	128	9060	8.2693	ppb	# 65
40) 1,1,1-TCA	4.48	97	28107	9.9557	ppb	92
41) Cyclohexane	4.55	41	5503	5.5504	ppb	# 51
42) 1,1-Dichloropropene	4.74	75	14113	8.3724	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	19457	7.0153	ppb	94
45) Carbon Tetrachloride	4.72	117	25386	10.1550	ppb	98
46) Tert Amyl Methyl Ether	5.27	73	18093	17.9325	ppb	# 87
48) 1,2-DCA	5.05	62	22639	9.4416	ppb	92
49) Benzene	5.01	78	46320	7.8390	ppb	93
50) TCE	5.90	130	17146	9.0938	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1028L18.D L1023W.M Thu Nov 21 08:13:14 2019

Data File : M:\LOKI\DATA\191023\1028L18.D
 Acq On : 28 Oct 19 18:14
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	88710	143.0710	ppb	93
52) 1,2-Dichloropropane	6.16	63	12710	8.4712	ppb	99
53) Bromodichloromethane	6.54	83	23159	9.8016	ppb	98
54) Methyl Cyclohexane	6.13	83	12410	7.9672	ppb	84
55) Dibromomethane	6.30	93	11058	9.4818	ppb	87
57) MIBK (methyl isobutyl ket	7.32	43	8728	10.9945	ppb #	92
58) 1-Bromo-2-chloroethane	6.87	63	16965	9.1343	ppb	98
59) Cis-1,3-Dichloropropene	7.08	75	18825	9.7762	ppb	89
60) Toluene	7.45	91	55805	9.8678	ppb	99
61) Trans-1,3-Dichloropropene	7.75	75	18507	11.0102	ppb	99
62) 1,1,2-TCA	7.93	83	12044	9.9773	ppb #	73
63) 2-Hexanone	8.27	43	4274	14.1504	ppb	90
66) 1,2-EDB	8.44	107	14571	9.7174	ppb #	93
67) Tetrachloroethene	8.07	166	19815	8.8490	ppb	97
68) 1-Chlorohexane	9.05	91	13219	9.6568	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.12	131	19909	9.8193	ppb	89
70) m&p-Xylene	9.30	91	89714	18.7350	ppb	100
71) o-Xylene	9.72	106	22834	10.1991	ppb	100
72) Styrene	9.74	104	37972	9.7172	ppb	98
74) 1,3-Dichloropropane	8.11	76	21702	9.2587	ppb	97
75) Dibromochloromethane	8.35	129	20925	9.5700	ppb	97
76) Chlorobenzene	9.01	112	44621	9.3409	ppb	87
77) Ethylbenzene	9.17	91	58941	10.4680	ppb	92
78) Bromoform	9.91	173	17888	11.2773	ppb	87
80) Isopropylbenzene	10.14	105	33184	9.6363	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	18956	8.8735	ppb	95
82) 1,2,3-Trichloropropane	10.50	110	7241	9.9749	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	2837	11.6474	ppb	88
84) Bromobenzene	10.43	156	21697	9.3309	ppb	94
85) n-Propylbenzene	10.59	91	63119	9.3705	ppb	97
86) 4-Ethyltoluene	10.72	105	53537	9.1931	ppb	100
87) 2-Chlorotoluene	10.65	91	24272	9.2464	ppb	87
88) 1,3,5-Trimethylbenzene	10.79	105	49840	9.0214	ppb	94
89) 4-Chlorotoluene	10.78	126	9751	9.7389	ppb	95
90) Tert-Butylbenzene	11.14	119	45532	10.5307	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	46505	9.4041	ppb	94
92) Sec-Butylbenzene	11.37	105	61123	10.5014	ppb	97
93) p-Isopropyltoluene	11.54	119	55898	9.5135	ppb	94
94) Benzyl Chloride	11.71	91	13048	8.7088	ppb #	90
95) 1,3-DCB	11.46	146	37174	9.8861	ppb	95
96) 1,4-DCB	11.56	146	38925	8.5760	ppb	98
97) n-Butylbenzene	11.98	91	37336	9.8299	ppb	96
98) 1,2-DCB	11.95	146	35560	9.4100	ppb	95
99) Hexachloroethane	12.23	201	15491	13.0370	ppb #	84
100) 1,2-Dibromo-3-chloropropan	12.78	75	3525	12.3522	ppb #	87
101) 1,2,4-Trichlorobenzene	13.69	180	19129	15.5058	ppb	84
102) Hexachlorobutadiene	13.89	223	4875	14.6348	ppb #	75
103) Naphthalene	13.94	128	32737	17.8329	ppb	93
104) 1,2,3-Trichlorobenzene	14.20	182	9462	13.3126	ppb	95

Quantitation Report

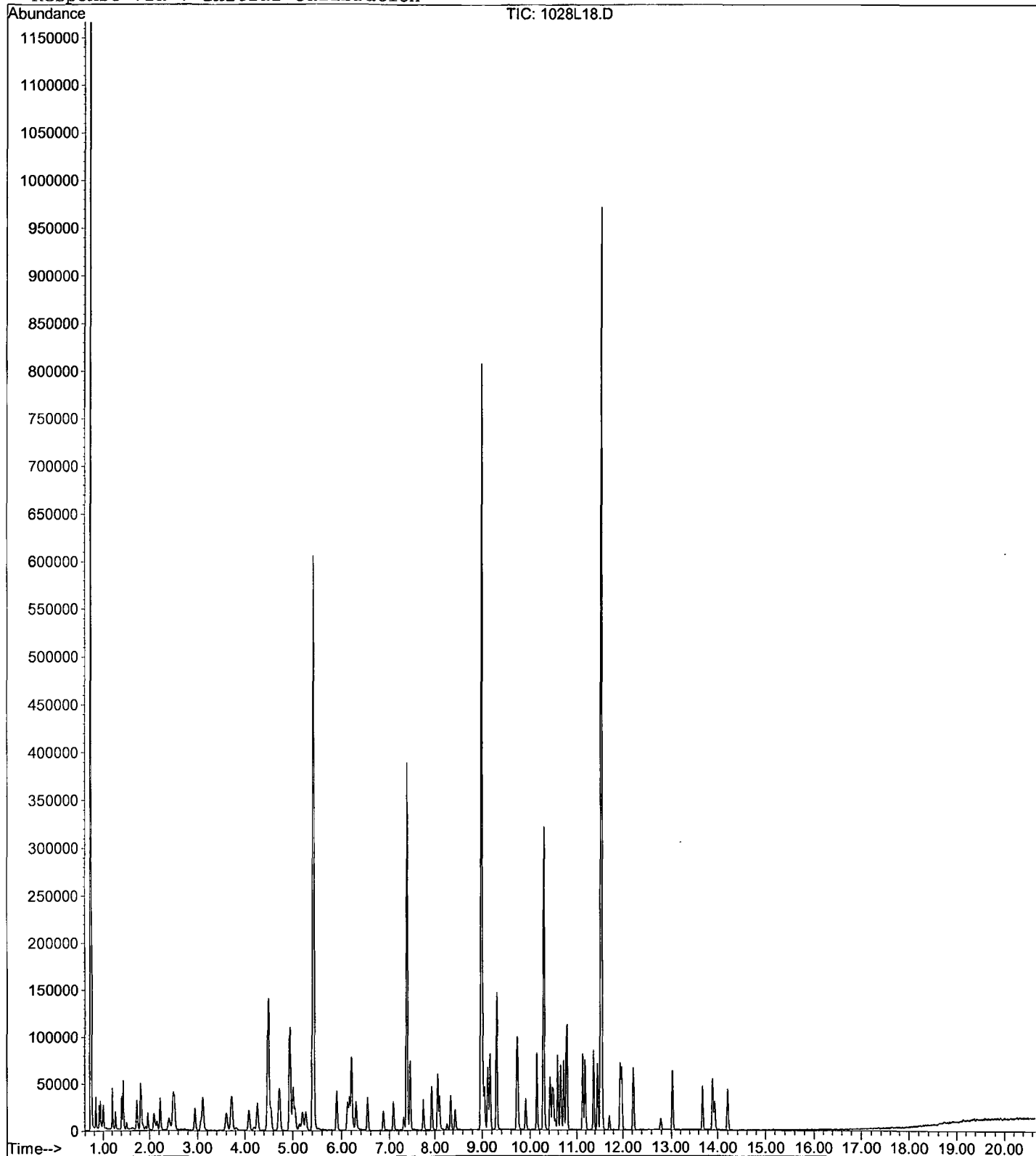
Data File : M:\LOKI\DATA\191023\1028L18.D
Acq On : 28 Oct 19 18:14
Sample : Ending CCV 10ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 18
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L21.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TML Dichlorodifluoromethane	0.0636	0.0553	13	TML 3.1
3	TML Freon 114	0.1338	0.1179	12	TML 5.0
4	TM**L Chloromethane	0.2092	0.1119	46	TM**L 36 *
5	TM* Vinyl chloride	0.1839	0.1185	36	TM* *
6	TML Bromomethane	0.2799	0.1345	52	TML 41 *
7	TML Chloroethane	0.1659	0.0738	56	TML 50 *
8	TM Dichlorofluoromethane	0.3539	0.2105	41	TM *
9	TM Trichlorofluoromethane	0.2108	0.1763	16	TM
10	TM Diethyl ether	0.0000	0.0209	0.00	TM
11	TM Acrolein	0.0184	0.0099	46	TM *
12	TML Acetone	0.0763	0.0456	40	TML 46 *
13	TM Freon-113	0.1657	0.1197	28	TM *
14	TM*L 1,1-DCE	0.1612	0.1087	33	TM*L 27 *
15	TML t-Butanol	0.0165	0.0122	26	TML 23 *
16	TM 2-Propanol	0.0000	0.0001	0.00	TM
17	TM Acetonitrile	0.0281	0.0162	42	TM *
18	TML Methyl Acetate	0.1524	0.0733	52	TML 48 *
19	TML Iodomethane	0.0834	0.0322	61	TML 60 *
20	TML Acrylonitrile	0.0844	0.0465	45	TML 49 *
21	TML Methylene chloride	0.2298	0.1387	40	TML 29 *
22	TML Carbon disulfide	0.3814	0.2221	42	TML 31 *
23	TM Methyl t-butyl ether (MtBE)	0.3700	0.2952	20	TM
24	TML Trans-1,2-DCE	0.1832	0.1288	30	TML 24 *
25	TM Diisopropyl Ether	0.3399	0.2665	22	TM *
26	TM** 1,1-DCA	0.2649	0.2085	21	TM** *
27	TM Vinyl Acetate	0.3399	0.2665	22	TM *
28	TM Ethyl tert Butyl Ether	0.1214	0.1624	34	TM *
29	TML MEK (2-Butanone)	0.0179	0.0130	27	TML 12
30	TML Cis-1,2-DCE	0.1575	0.1206	23	TML 17
31	TM 2,2-Dichloropropane	0.1929	0.1729	10	TM
32	TM 2-Methylpentane	0.0000	0.0008	0.00	TM
33	TM 3-Methylpentane	0.0000	0.0572	0.00	TM
34	TM* Chloroform	0.2786	0.2449	12	TM*
35	TM Bromochloromethane	0.0928	0.0804	13	TM
36	S Dibromofluoromethane(S)	0.3078	0.3004	2.4	S
37	TM 1,1,1-TCA	0.2391	0.2334	2.4	TM
38	TML Cyclohexane	0.0941	0.0697	26	TML 18
39	TM 1,1-Dichloropropene	0.1428	0.1356	5.0	TM
40	TM 2,2,4-Trimethylpentane	0.2349	0.2119	9.8	TM

Average

25.8

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1028L21.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.3307	0.3491	5.6	S
42	TM	Carbon Tetrachloride	0.2117	0.2203	4.1	TM
43	TM	Tert Amyl Methyl Ether	0.0855	0.1344	57	TM
44	TM	Methylcyclopentane	0.0000	0.0103	0.00	TM
45	TM	1,2-DCA	0.2031	0.1987	2.2	TM
46	TM	Benzene	0.5005	0.4377	13	TM
47	TM	TCE	0.1597	0.1448	9.3	TM
48	TM	2-Pentanone	0.0525	0.0563	7.2	TM
49	TM*	1,2-Dichloropropane	0.1271	0.1080	15	TM*
50	TM	Bromodichloromethane	0.2001	0.1904	4.9	TM
51	TM	Methyl Cyclohexane	0.1319	0.1383	4.8	TM
52	TM	Dibromomethane	0.0988	0.0900	8.9	TM
53	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0633	7.8	TML 6.0
54	TM	1-Bromo-2-chloroethane	0.1573	0.1339	15	TM
55	TM	Cis-1,3-Dichloropropene	0.1631	0.1602	1.8	TM
56	TM*	Toluene	0.4790	0.4925	2.8	TM*
57	TM	Trans-1,3-Dichloropropene	0.1424	0.1629	14	TM
58	TM	1,1,2-TCA	0.1022	0.0929	9.2	TM
59	TML	2-Hexanone	0.0269	0.0269	0.18	TML 7.3
60	I	Chlorobenzene-D5 (IS)	ISTD			I
61	S	Toluene-D8(S)	0.9097	0.9546	4.9	S
62	TM	1,2-EDB	0.1292	0.1147	11	TM
63	TM	Tetrachloroethene	0.1930	0.1814	6.0	TM
64	TM	1-Chlorohexane	0.1180	0.1193	1.1	TM
65	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1608	16	TML 8.6
66	TML	m&p-Xylene	0.3768	0.3931	4.3	TML 4.9
67	TM	o-Xylene	0.1930	0.1839	4.7	TM
68	TML	Styrene	0.2916	0.3064	5.1	TML 8.1
69	S	4-Bromofluorobenzene(S)	0.3222	0.3582	11	S
70	TM	1,3-Dichloropropane	0.2020	0.1817	10	TM
71	TM	Dibromochloromethane	0.1885	0.1750	7.1	TM
72	TM**	Chlorobenzene	0.4117	0.3644	11	TM**
73	TM*	Ethylbenzene	0.4853	0.5183	6.8	TM*
74	TM**	Bromoform	0.1367	0.1350	1.3	TM**
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
76	TM	Isopropylbenzene	0.5206	0.5063	2.7	TM
77	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2668	27	TM**L 19
78	TML	1,2,3-Trichloropropane	0.1211	0.1011	17	TML 8.1
79	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0379	3.0	TM
80	TM	Bromobenzene	0.3515	0.3035	14	TM

Average

9.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L21.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	n-Propylbenzene	0.9036	0.9786	8.3	TML	4.1
82	TML	4-Ethyltoluene	0.7832	0.8319	6.2	TML	5.8
83	TM	2-Chlorotoluene	0.3968	0.3812	3.9	TM	
84	TML	1,3,5-Trimethylbenzene	0.7524	0.7605	1.1	TML	9.0
85	TM	4-Chlorotoluene	0.1514	0.1326	12	TM	
86	TM	Tert-Butylbenzene	0.6536	0.6668	2.0	TM	
87	TML	1,2,4-Trimethylbenzene	0.6824	0.7027	3.0	TML	6.0
88	TM	Sec-Butylbenzene	0.8799	0.8516	3.2	TM	
89	TM	p-Isopropyltoluene	0.8882	0.8340	6.1	TM	
90	TM	Benzyl Chloride	0.2265	0.2165	4.4	TM	
91	TM	1,3-DCB	0.5684	0.5406	4.9	TM	
92	TM	1,4-DCB	0.6861	0.5713	17	TM	
93	TM	n-Butylbenzene	0.5742	0.5615	2.2	TM	
94	TM	1,2-DCB	0.5713	0.5236	8.3	TM	
95	TML	Hexachloroethane	0.1724	0.2454	42	TML	36*
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0425	10.0	TML	0.88
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2576	39	TMQ	40*
98	TML	Hexachlorobutadiene	0.0602	0.0781	30	TML	54*
99	TMQ	Naphthalene	0.2958	0.3906	32	TMQ	46*
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1201	11	TML	16
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

12.3

Data File : M:\LOKI\DATA\191023\1028L21.D
 Acq On : 28 Oct 19 19:39
 Sample : 191028B CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	295872	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	295104	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	165824	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	88893	24.4025	ppb	0.00
Spiked Amount 25.000			Recovery =	97.608%		
44) 1,2-DCA-D4(S)	4.95	65	103292	26.3904	ppb	0.00
Spiked Amount 25.000			Recovery =	105.560%		
65) Toluene-D8(S)	7.38	98	281710	26.2355	ppb	0.00
Spiked Amount 25.000			Recovery =	104.940%		
73) 4-Bromofluorobenzene(S)	10.28	95	105711	27.7944	ppb	0.00
Spiked Amount 25.000			Recovery =	111.176%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	6539	9.6924	ppb	96
4) Freon 114	0.91	85	13949	10.5026	ppb	94
5) Chloromethane	0.94	50	13246	6.4491	ppb	91
6) Vinyl chloride	1.01	62	14028	6.4450	ppb	99
8) Bromomethane	1.21	94	15923	5.9343	ppb	99
9) Chloroethane	1.27	64	8737	5.0100	ppb	98
10) Dichlorofluoromethane	1.41	67	24908	5.9464	ppb	99
11) Trichlorofluoromethane	1.45	103	20870	8.3663	ppb	91
13) Acrolein	1.75	56	14594	66.9800	ppb	# 67
14) Acetone	1.88	43	5400	5.4241	ppb	90
15) Freon-113	1.83	101	14163	7.2208	ppb	93
16) 1,1-DCE	1.82	96	12867	7.3164	ppb	91
17) t-Butanol	2.42	59	18071	95.7356	ppb	94
19) Acetonitrile	2.11	41	23971	71.9960	ppb	# 85
20) Methyl Acetate	2.16	43	8671	5.1763	ppb	91
21) Iodomethane	1.92	142	3813	3.9682	ppb	95
22) Acrylonitrile	2.47	53	5508	5.0761	ppb	91
23) Methylene chloride	2.23	84	16417	7.1181	ppb	98
24) Carbon disulfide	1.97	76	26288	6.9456	ppb	96
25) Methyl t-butyl ether (MtBE)	2.52	73	34935	7.9778	ppb	94
26) Trans-1,2-DCE	2.49	96	15243	7.5545	ppb	86
27) Diisopropyl Ether	3.12	45	31542	7.8415	ppb	90
29) 1,1-DCA	2.95	63	24681	7.8733	ppb	# 89
30) Vinyl Acetate	3.12	45	31542	7.8415	ppb	90
31) Ethyl tert Butyl Ether	3.61	59	19217	13.3776	ppb	92
32) MEK (2-Butanone)	3.82	43	1542	8.7817	ppb	85
33) Cis-1,2-DCE	3.73	96	14273	8.3012	ppb	96
34) 2,2-Dichloropropane	3.71	77	20463	8.9647	ppb	93
37) Chloroform	4.27	83	28982	8.7910	ppb	91
38) Bromochloromethane	4.09	128	9519	8.6676	ppb	78
40) 1,1,1-TCA	4.48	97	27622	9.7606	ppb	96
41) Cyclohexane	4.55	41	8243	8.2499	ppb	# 68
42) 1,1-Dichloropropene	4.74	75	16047	9.4971	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	25073	9.0186	ppb	97
45) Carbon Tetrachloride	4.72	117	26078	10.4070	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	15910	15.7313	ppb	# 83
48) 1,2-DCA	5.05	62	23515	9.7836	ppb	# 90
49) Benzene	5.01	78	51802	8.7458	ppb	98
50) TCE	5.90	130	17133	9.0652	ppb	# 94

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

Data File : M:\LOKI\DATA\191023\1028L21.D
 Acq On : 28 Oct 19 19:39
 Sample : 191028B CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83310	134.0422	ppb	95
52) 1,2-Dichloropropane	6.17	63	12783	8.4996	ppb #	94
53) Bromodichloromethane	6.54	83	22535	9.5148	ppb	97
54) Methyl Cyclohexane	6.13	83	16362	10.4793	ppb	99
55) Dibromomethane	6.30	93	10647	9.1076	ppb	79
57) MIBK (methyl isobutyl ket	7.32	43	7486	9.4002	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	15842	8.5093	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	18959	9.8224	ppb	90
60) Toluene	7.45	91	58288	10.2823	ppb	99
61) Trans-1,3-Dichloropropene	7.74	75	19277	11.4410	ppb	92
62) 1,1,2-TCA	7.93	83	10993	9.0850	ppb	77
63) 2-Hexanone	8.27	43	3178	10.7315	ppb	88
66) 1,2-EDB	8.44	107	13540	8.8751	ppb	91
67) Tetrachloroethene	8.07	166	21414	9.3993	ppb	99
68) 1-Chlorohexane	9.05	91	14077	10.1074	ppb	97
69) 1,1,1,2-Tetrachloroethane	9.12	131	18987	9.1439	ppb	79
70) m&p-Xylene	9.30	91	92805	19.0120	ppb	97
71) o-Xylene	9.72	106	21712	9.5318	ppb	90
72) Styrene	9.74	104	36163	9.1942	ppb	98
74) 1,3-Dichloropropane	8.11	76	21445	8.9923	ppb	94
75) Dibromochloromethane	8.35	129	20662	9.2879	ppb	91
76) Chlorobenzene	9.02	112	43014	8.8502	ppb	90
77) Ethylbenzene	9.17	91	61177	10.6790	ppb	88
78) Bromoform	9.91	173	15931	9.8715	ppb	87
80) Isopropylbenzene	10.14	105	33584	9.7261	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	17696	8.0703	ppb	96
82) 1,2,3-Trichloropropane	10.50	110	6708	9.1866	ppb	85
83) t-1,4-Dichloro-2-Butene	10.54	53	2516	10.3016	ppb	99
84) Bromobenzene	10.43	156	20128	8.6327	ppb	95
85) n-Propylbenzene	10.59	91	64913	9.5926	ppb	100
86) 4-Ethyltoluene	10.72	105	55181	9.4197	ppb	97
87) 2-Chlorotoluene	10.65	91	25285	9.6063	ppb	86
88) 1,3,5-Trimethylbenzene	10.79	105	50444	9.0995	ppb	97
89) 4-Chlorotoluene	10.78	126	8793	8.7584	ppb	73
90) Tert-Butylbenzene	11.14	119	44230	10.2019	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	46611	9.4007	ppb	99
92) Sec-Butylbenzene	11.37	105	56484	9.6781	ppb	97
93) p-Isopropyltoluene	11.54	119	55321	9.3899	ppb	93
94) Benzyl Chloride	11.71	91	14358	9.5572	ppb	94
95) 1,3-DCB	11.46	146	35858	9.5104	ppb	97
96) 1,4-DCB	11.56	146	37897	8.3269	ppb	97
97) n-Butylbenzene	11.98	91	37242	9.7786	ppb	92
98) 1,2-DCB	11.95	146	34729	9.1653	ppb	94
99) Hexachloroethane	12.23	201	16278	13.6196	ppb #	83
100) 1,2-Dibromo-3-chloropropan	12.79	75	2822	9.9123	ppb #	74
101) 1,2,4-Trichlorobenzene	13.69	180	17087	13.9980	ppb	85
102) Hexachlorobutadiene	13.89	223	5178	15.4326	ppb #	73
103) Naphthalene	13.94	128	25906	14.6312	ppb	96
104) 1,2,3-Trichlorobenzene	14.20	182	7967	11.6233	ppb	90

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

1028L21.D L1023W.M Thu Nov 21 08:13:17 2019

Quantitation Report

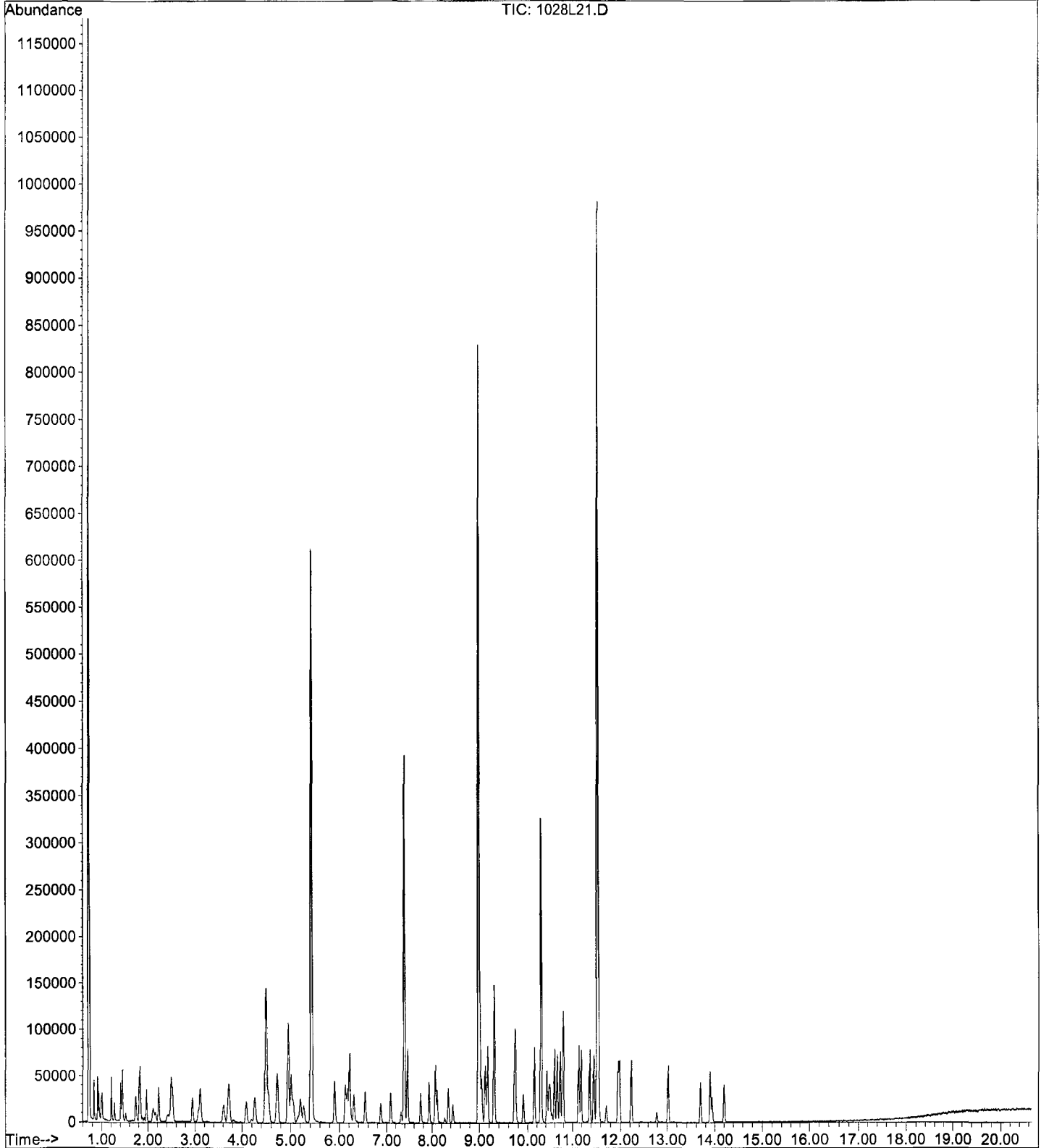
Data File : M:\LOKI\DATA\191023\1028L21.D
Acq On : 28 Oct 19 19:39
Sample : 191028B CCV 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L45.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0608	4.5	TML	6.5
3	TML	Freon 114	0.1338	0.1298	3.0	TML	17
4	TM**L	Chloromethane	0.2092	0.1374	34	TM**L	19
5	TM*	Vinyl chloride	0.1839	0.1310	29	TM*	
6	TML	Bromomethane	0.2799	0.1595	43	TML	29
7	TML	Chloroethane	0.1659	0.0857	48	TML	41
8	TM	Dichlorofluoromethane	0.3539	0.2396	32	TM	
9	TM	Trichlorofluoromethane	0.2108	0.1911	9.4	TM	
10	TM	Diethyl ether	0.0000	0.0198	0.00	TM	
11	TM	Acrolein	0.0184	0.0091	51	TM	*
12	TML	Acetone	0.0763	0.0513	33	TML	33
13	TM	Freon-113	0.1657	0.1299	22	TM	
14	TM*L	1,1-DCE	0.1612	0.1291	20	TM*L	11
15	TML	t-Butanol	0.0165	0.0098	41	TML	39
16	TM	2-Propanol	0.0000	0.0000	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0136	52	TM	*
18	TML	Methyl Acetate	0.1524	0.0745	51	TML	47
19	TML	Iodomethane	0.0834	0.0302	64	TML	62
20	TML	Acrylonitrile	0.0844	0.0441	48	TML	53
21	TML	Methylene chloride	0.2298	0.1468	36	TML	24
22	TML	Carbon disulfide	0.3814	0.2677	30	TML	16
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.2953	20	TM	
24	TML	Trans-1,2-DCE	0.1832	0.1468	20	TML	13
25	TM	Diisopropyl Ether	0.3399	0.3349	1.5	TM	
26	TM**	1,1-DCA	0.2649	0.2403	9.3	TM**	
27	TM	Vinyl Acetate	0.3399	0.3349	1.5	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1483	22	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0120	33	TML	19
30	TML	Cis-1,2-DCE	0.1575	0.1415	10	TML	1.6
31	TM	2,2-Dichloropropane	0.1929	0.1734	10	TM	
32	TM	3-Methylpentane	0.0000	0.0639	0.00	TM	
33	TM*	Chloroform	0.2786	0.2922	4.9	TM*	
34	TM	Bromochloromethane	0.0928	0.0912	1.8	TM	
35	S	Dibromofluoromethane(S)	0.3078	0.3061	0.56	S	
36	TM	1,1,1-TCA	0.2391	0.2743	15	TM	
37	TML	Cyclohexane	0.0941	0.0806	14	TML	4.7
38	TM	1,1-Dichloropropene	0.1428	0.1530	7.2	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2354	0.22	TM	
40	S	1,2-DCA-D4(S)	0.3307	0.3722	13	S	

Average

21.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1028L45.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Carbon Tetrachloride	0.2117	0.2540	20	TM
42	TM	Tert Amyl Methyl Ether	0.0855	0.1136	33	TM
43	TM	Methylcyclopentane	0.0000	0.0091	0.00	TM
44	TM	1,2-DCA	0.2031	0.2172	6.9	TM
45	TM	Benzene	0.5005	0.4875	2.6	TM
46	TM	TCE	0.1597	0.1708	7.0	TM
47	TM	2-Pentanone	0.0525	0.0441	16	TM
48	TM*	1,2-Dichloropropane	0.1271	0.1176	7.5	TM*
49	TM	Bromodichloromethane	0.2001	0.2070	3.4	TM
50	TM	Methyl Cyclohexane	0.1319	0.1509	14	TM
51	TM	Dibromomethane	0.0988	0.0936	5.3	TM
52	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0572	17	TML 15
53	TM	1-Bromo-2-chloroethane	0.1573	0.1513	3.8	TM
54	TM	Cis-1,3-Dichloropropene	0.1631	0.1722	5.6	TM
55	TM*	Toluene	0.4790	0.5740	20	TM*
56	TM	Trans-1,3-Dichloropropene	0.1424	0.1646	16	TM
57	TM	1,1,2-TCA	0.1022	0.0976	4.5	TM
58	TML	2-Hexanone	0.0269	0.0216	20	TML 12
59	I	Chlorobenzene-D5 (IS)	ISTD			I
60	S	Toluene-D8(S)	0.9097	0.9922	9.1	S
61	TM	1,2-EDB	0.1292	0.1261	2.4	TM
62	TM	Tetrachloroethene	0.1930	0.2075	7.5	TM
63	TM	1-Chlorohexane	0.1180	0.1304	11	TM
64	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1890	0.90	TML 9.1
65	TML	m&p-Xylene	0.3768	0.4344	15	TML 3.9
66	TM	o-Xylene	0.1930	0.2033	5.4	TM
67	TML	Styrene	0.2916	0.3280	12	TML 2.7
68	S	4-Bromofluorobenzene(S)	0.3222	0.3670	14	S
69	TM	1,3-Dichloropropane	0.2020	0.1839	9.0	TM
70	TM	Dibromochloromethane	0.1885	0.1768	6.2	TM
71	TM**	Chlorobenzene	0.4117	0.4104	0.33	TM**
72	TM*	Ethylbenzene	0.4853	0.5811	20	TM*
73	TM**	Bromoform	0.1367	0.1460	6.8	TM**
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
75	TM	Isopropylbenzene	0.5206	0.5881	13	TM
76	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2611	28	TM**L 22
77	TML	1,2,3-Trichloropropane	0.1211	0.1045	14	TML 4.9
78	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0278	25	TM
79	TM	Bromobenzene	0.3515	0.3347	4.8	TM
80	TML	n-Propylbenzene	0.9036	1.011	12	TML 1.1

Average

11.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L45.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	4-Ethyltoluene	0.7832	0.8650	10	TML	2.5
82	TM	2-Chlorotoluene	0.3968	0.4075	2.7	TM	
83	TML	1,3,5-Trimethylbenzene	0.7524	0.8764	16	TML	3.8
84	TM	4-Chlorotoluene	0.1514	0.1469	2.9	TM	
85	TM	Tert-Butylbenzene	0.6536	0.8295	27	TM	
86	TML	1,2,4-Trimethylbenzene	0.6824	0.7723	13	TML	2.0
87	TM	Sec-Butylbenzene	0.8799	0.9736	11	TM	
88	TM	p-Isopropyltoluene	0.8882	0.9198	3.6	TM	
89	TM	Benzyl Chloride	0.2265	0.1615	29	TM	
90	TM	1,3-DCB	0.5684	0.6064	6.7	TM	
91	TM	1,4-DCB	0.6861	0.6452	6.0	TM	
92	TM	n-Butylbenzene	0.5742	0.6286	9.5	TM	
93	TM	1,2-DCB	0.5713	0.5738	0.45	TM	
94	TML	Hexachloroethane	0.1724	0.2617	52	TML	45
95	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0409	13	TML	4.5
96	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2673	45	TMQ	45
97	TML	Hexachlorobutadiene	0.0602	0.0825	37	TML	63*
98	TMQ	Naphthalene	0.2958	0.3091	4.5	TMQ	20
99	TML	1,2,3-Trichlorobenzene	0.1086	0.1149	5.8	TML	12
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

15.5

ORGANICS
Raw Data

Data File : M:\LOKI\DATA\191023\1028L12.D Vial: 12
 Acq On : 28 Oct 19 15:23 Operator:
 Sample : BA01650W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:10 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	275456	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	280128	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	139136	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	86472	25.4972	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.988%	
44) 1,2-DCA-D4(S)	4.95	65	101368	27.8184	ppb	0.00
Spiked Amount				25.000		
					Recovery = 111.272%	
65) Toluene-D8(S)	7.38	98	259355	25.4448	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.780%	
73) 4-Bromofluorobenzene(S)	10.29	95	92120	25.5159	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.064%	

Target Compounds Qvalue

Quantitation Report

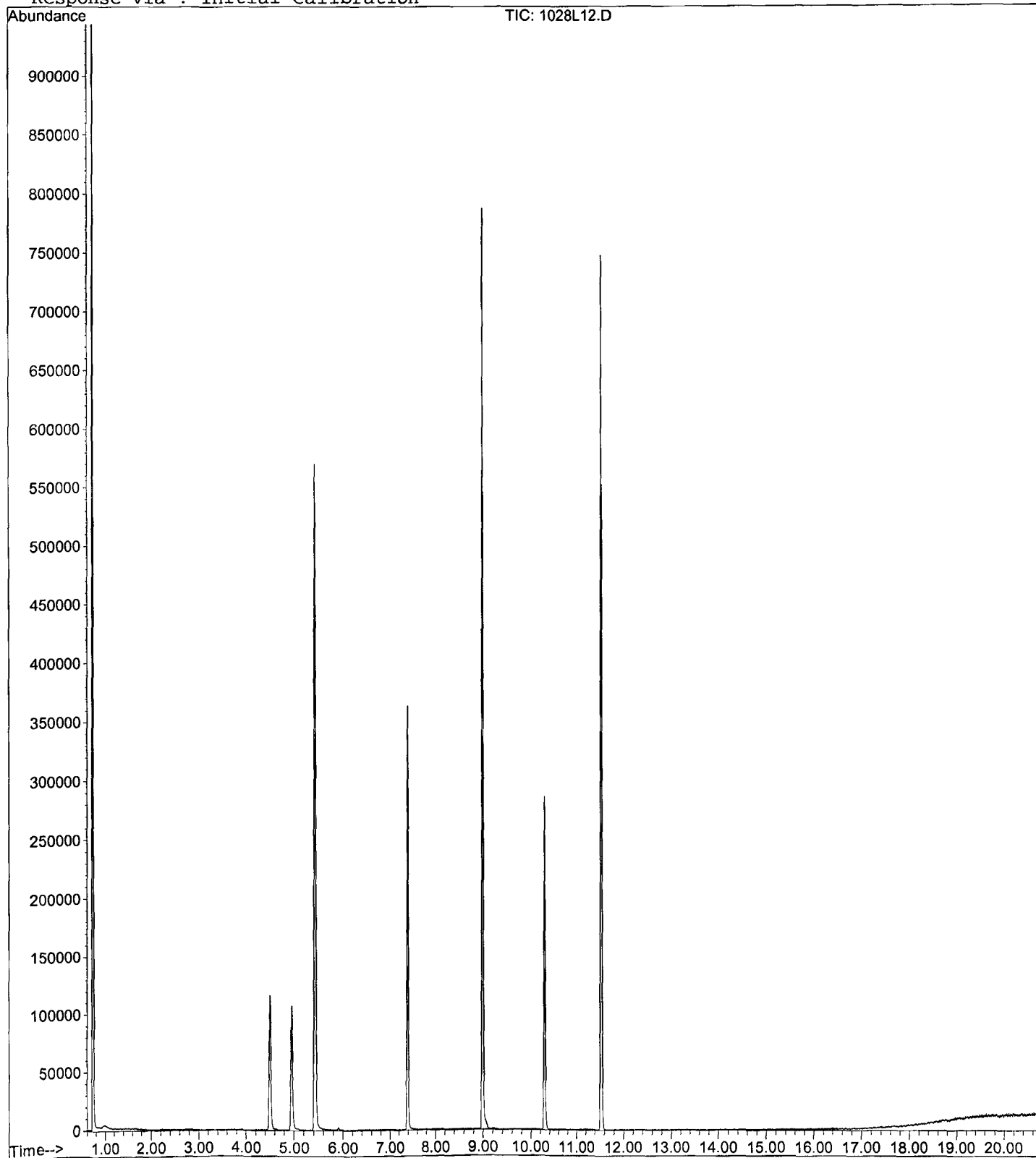
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Acq On : 28 Oct 19 15:23
Sample : BA01650W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:10 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L13.D
 Acq On : 28 Oct 19 15:51
 Sample : BA01651W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:11 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	272640	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	281920	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	163520	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	85490	25.4680	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.872%	
44) 1,2-DCA-D4(S)	4.95	65	98149	27.2132	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.852%	
65) Toluene-D8(S)	7.38	98	259364	25.2840	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.136%	
73) 4-Bromofluorobenzene(S)	10.28	95	95003	26.1471	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.588%	
Target Compounds						
80) Isopropylbenzene	10.15	105	13824	4.0599	ppb	96
85) n-Propylbenzene	10.59	91	45979	7.0904	ppb	96
92) Sec-Butylbenzene	11.37	105	28491	4.9505	ppb	93
97) n-Butylbenzene	11.98	91	24249	6.4568	ppb	95
103) Naphthalene	13.94	128	582545	141.1796	ppb	94

Quantitation Report

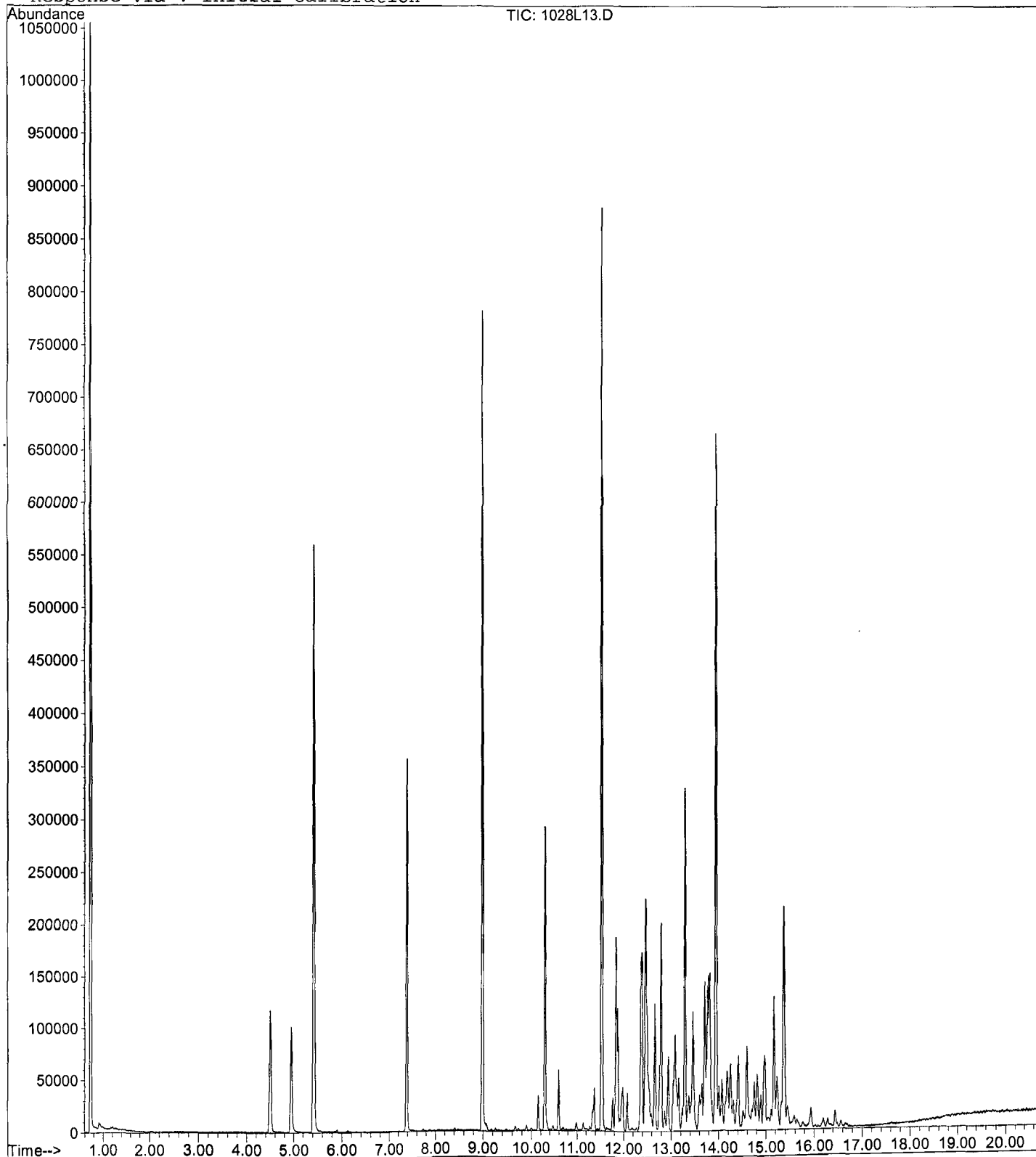
Data File : M:\LOKI\DATA\191023\1028L13.D
Acq On : 28 Oct 19 15:51
Sample : BA01651W01
Misc : IS&S:10/7/19, 10/23/19

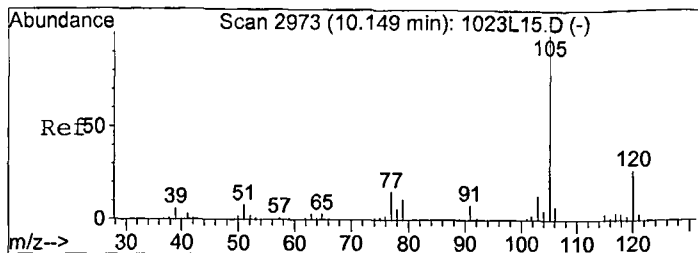
Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:11 2019

Quant Results File: L1023W.RES

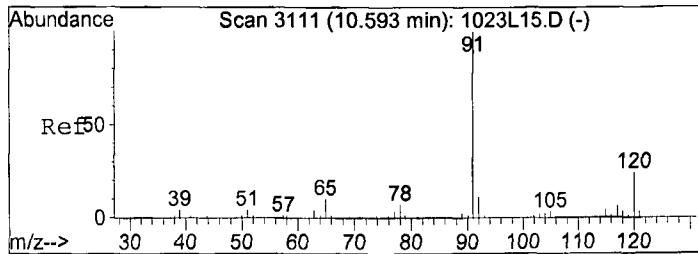
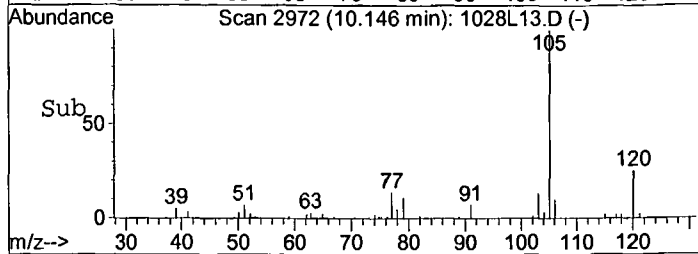
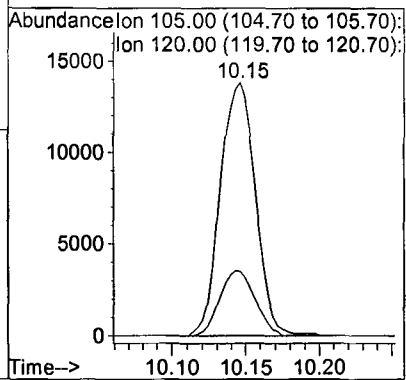
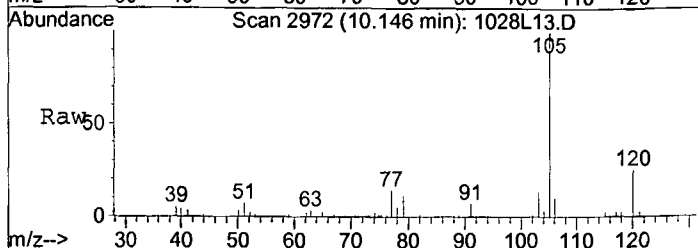
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration





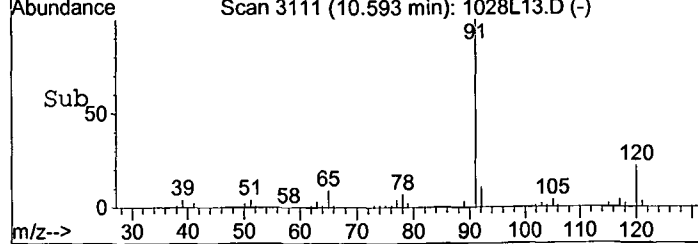
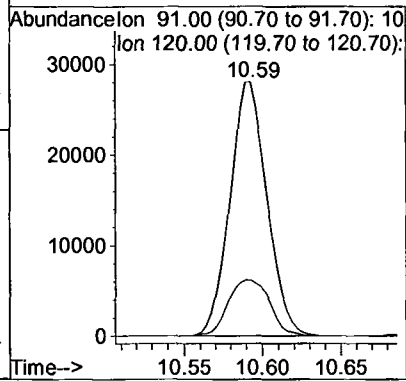
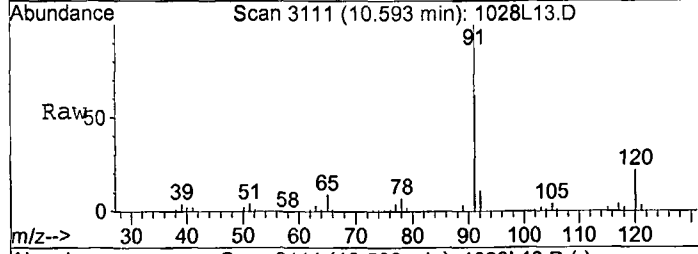
#80
 Isopropylbenzene
 Concen: 4.0599 ppb
 RT: 10.15 min Scan# 2972
 Delta R.T. -0.00 min
 Lab File: 1028L13.D
 Acq: 28 Oct 19 15:51

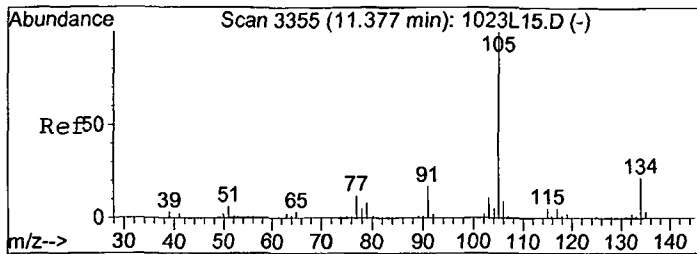
Tgt Ion: 105 Resp: 13824
 Ion Ratio Lower Upper
 105 100
 120 25.3 21.8 32.6



#85
 n-Propylbenzene
 Concen: 7.0904 ppb
 RT: 10.59 min Scan# 3111
 Delta R.T. 0.00 min
 Lab File: 1028L13.D
 Acq: 28 Oct 19 15:51

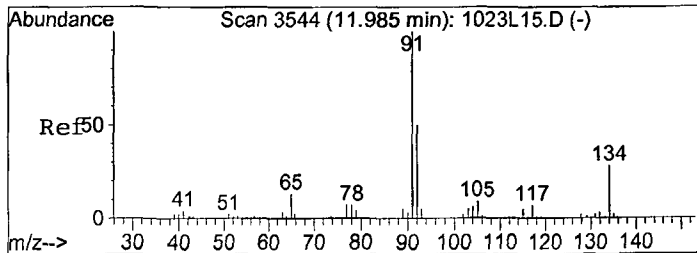
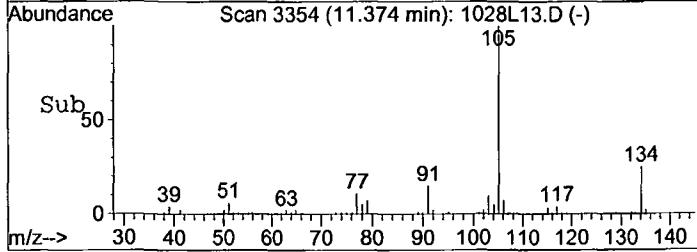
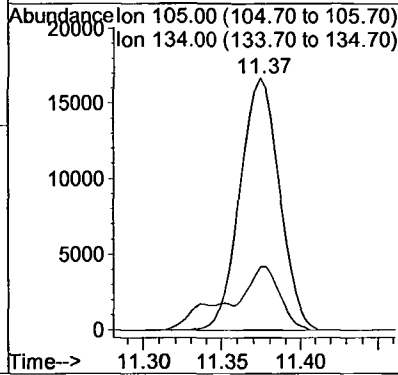
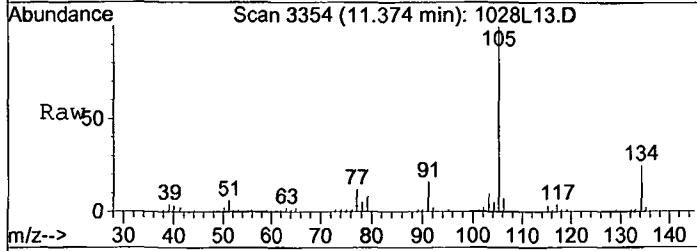
Tgt Ion: 91 Resp: 45979
 Ion Ratio Lower Upper
 91 100
 120 22.1 16.7 30.9





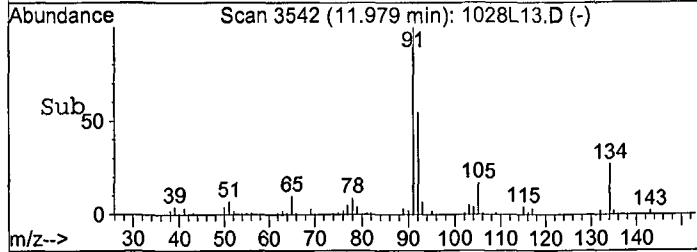
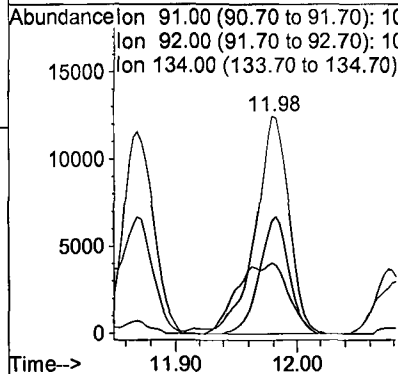
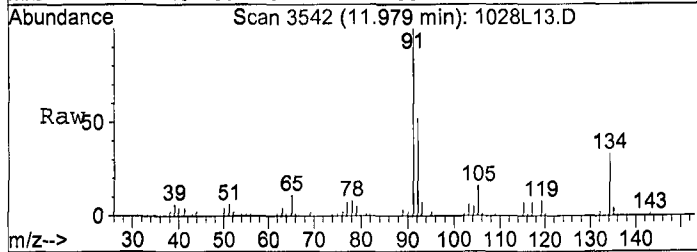
#92
 Sec-Butylbenzene
 Concen: 4.9505 ppb
 RT: 11.37 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: 1028L13.D
 Acq: 28 Oct 19 15:51

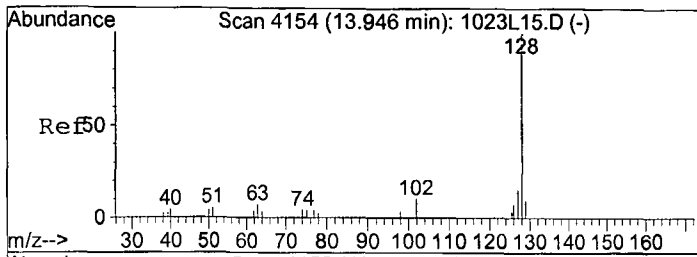
Tgt Ion: 105 Resp: 28491
 Ion Ratio Lower Upper
 105 100
 134 25.1 15.3 28.3



#97
 n-Butylbenzene
 Concen: 6.4568 ppb
 RT: 11.98 min Scan# 3542
 Delta R.T. -0.01 min
 Lab File: 1028L13.D
 Acq: 28 Oct 19 15:51

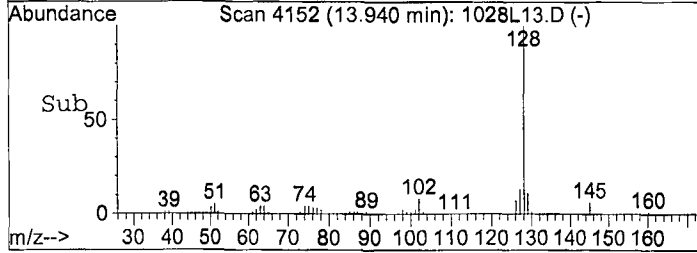
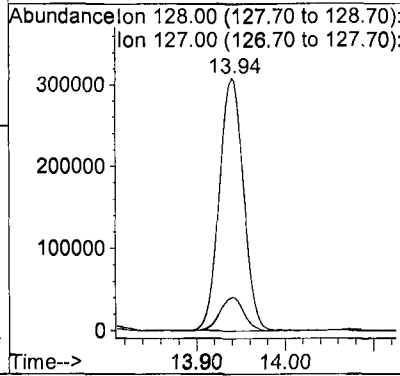
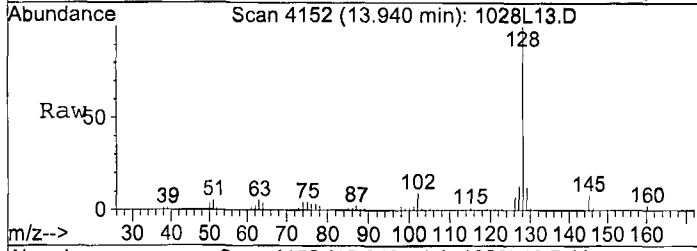
Tgt Ion: 91 Resp: 24249
 Ion Ratio Lower Upper
 91 100
 92 51.9 35.1 65.3
 134 32.6 19.6 36.4





#103
 Naphthalene
 Concen: 141.1796 ppb
 RT: 13.94 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: 1028L13.D
 Acq: 28 Oct 19 15:51

Tgt Ion: 128 Resp: 582545
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.9 20.2



Data File : M:\LOKI\DATA\191023\1028L14.D
 Acq On : 28 Oct 19 16:20
 Sample : BA01652W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:12 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	289536	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	291264	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	164032	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	88514	24.8301	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.320%	
44) 1,2-DCA-D4(S)	4.95	65	100561	26.2549	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.020%	
65) Toluene-D8(S)	7.38	98	269629	25.4414	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.764%	
73) 4-Bromofluorobenzene(S)	10.29	95	100537	26.7825	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.132%	
Target Compounds						Qvalue
80) Isopropylbenzene	10.15	105	14209	4.1600	ppb	99
85) n-Propylbenzene	10.59	91	50672	7.7196	ppb	100
90) Tert-Butylbenzene	11.14	119	3797	0.8854	ppb	98
92) Sec-Butylbenzene	11.37	105	30799	5.3348	ppb	99
97) n-Butylbenzene	11.98	91	26459	7.0232	ppb	91
103) Naphthalene	13.94	128	633531	148.3216	ppb	93

Quantitation Report

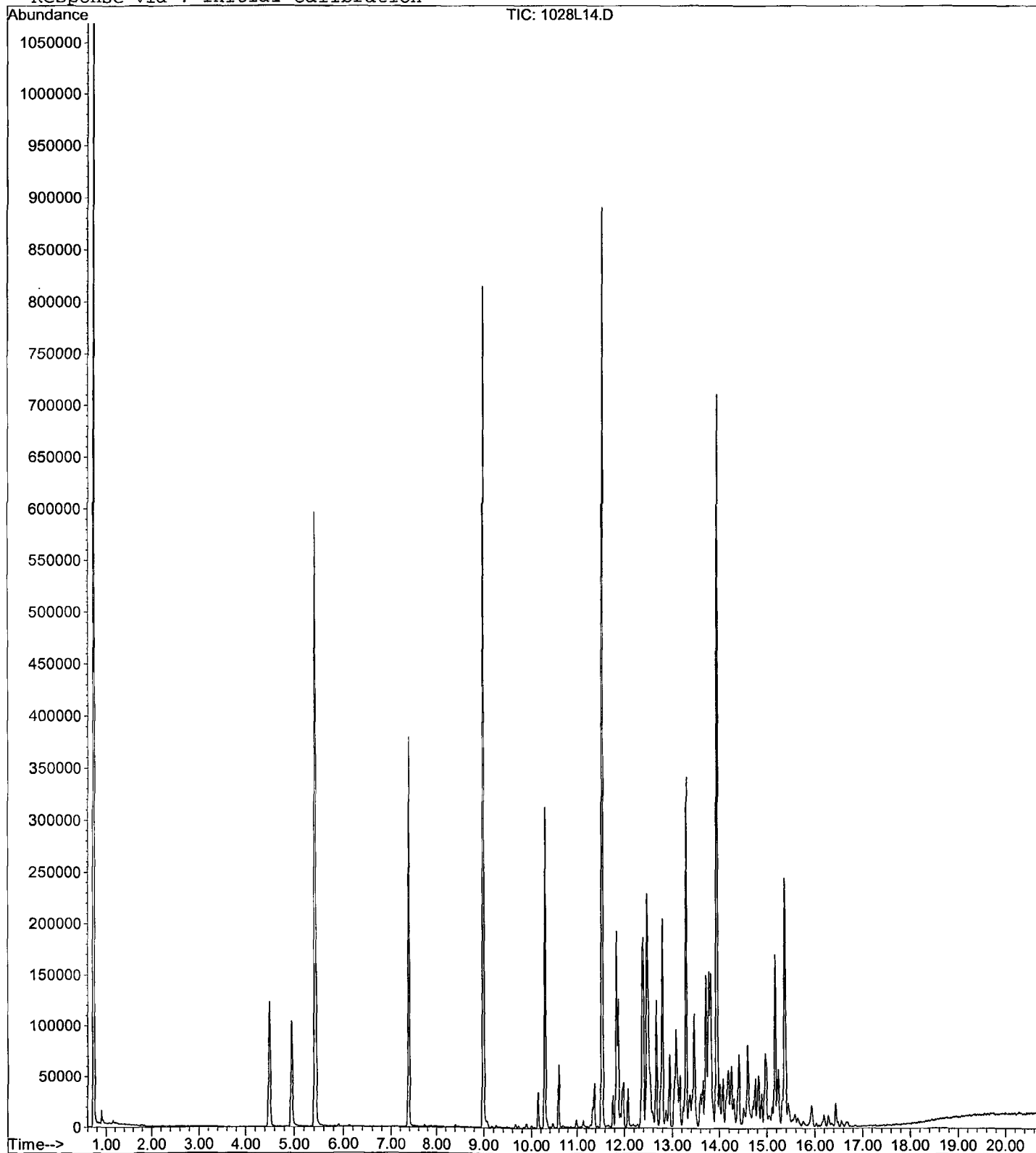
Data File : M:\LOKI\DATA\191023\1028L14.D
Acq On : 28 Oct 19 16:20
Sample : BA01652W01
Misc : IS&S:10/7/19, 10/23/19

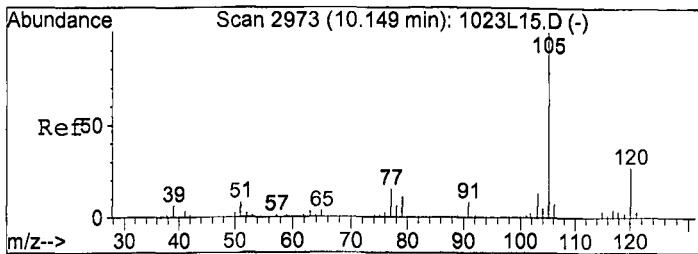
Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:12 2019

Quant Results File: L1023W.RES

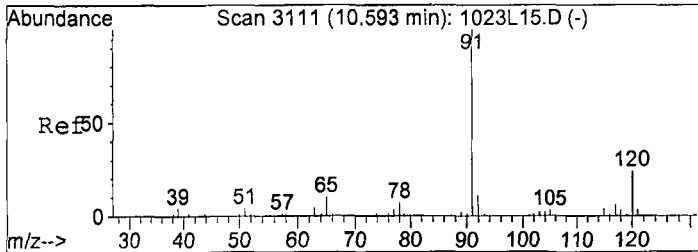
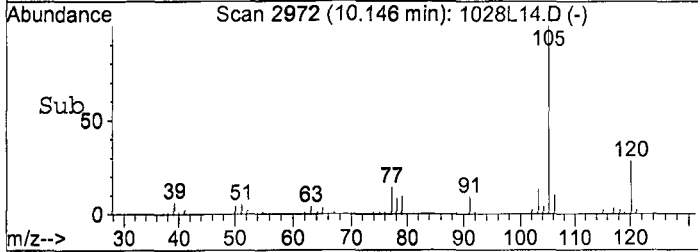
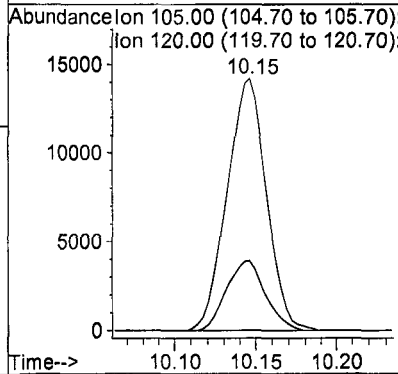
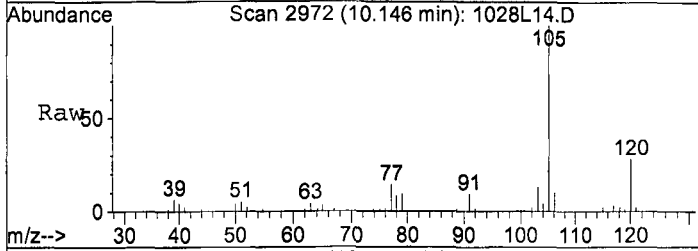
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration





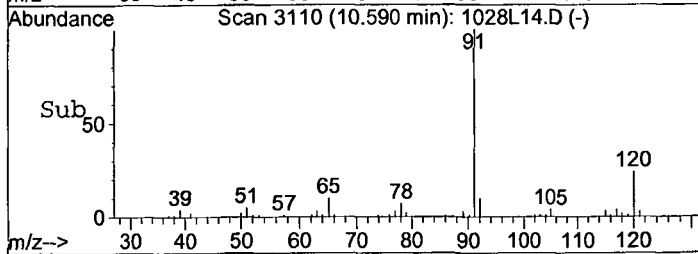
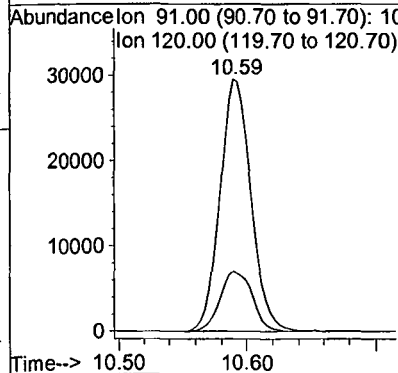
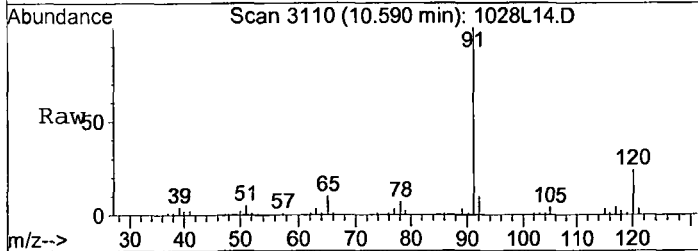
#80
 Isopropylbenzene
 Concen: 4.1600 ppb
 RT: 10.15 min Scan# 2972
 Delta R.T. -0.00 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

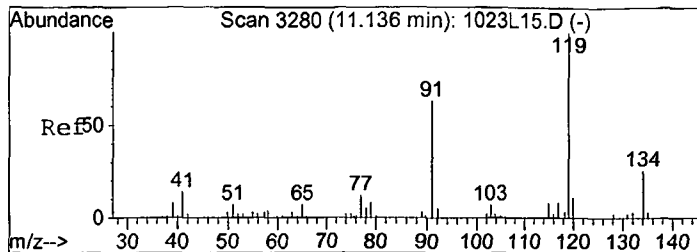
Tgt Ion: 105 Resp: 14209
 Ion Ratio Lower Upper
 105 100
 120 27.6 21.8 32.6



#85
 n-Propylbenzene
 Concen: 7.7196 ppb
 RT: 10.59 min Scan# 3110
 Delta R.T. -0.00 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

Tgt Ion: 91 Resp: 50672
 Ion Ratio Lower Upper
 91 100
 120 23.8 16.7 30.9

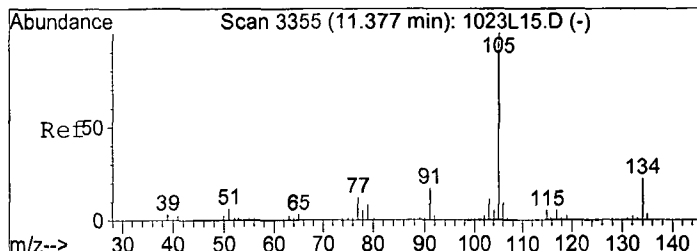
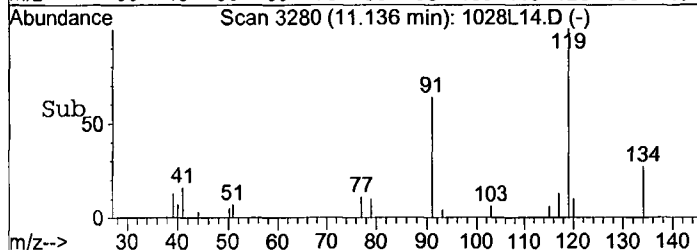
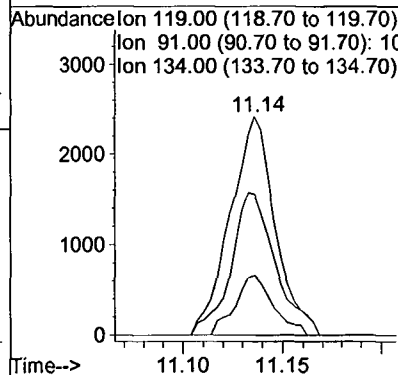
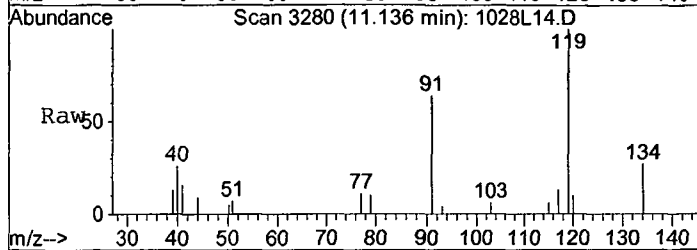




#90
 Tert-Butylbenzene
 Concen: 0.8854 ppb
 RT: 11.14 min Scan# 3280
 Delta R.T. 0.00 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

Tgt Ion: 119 Resp: 3797

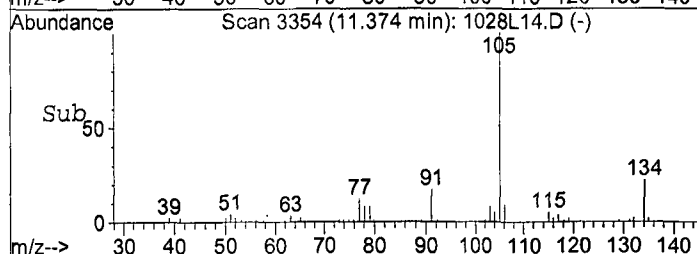
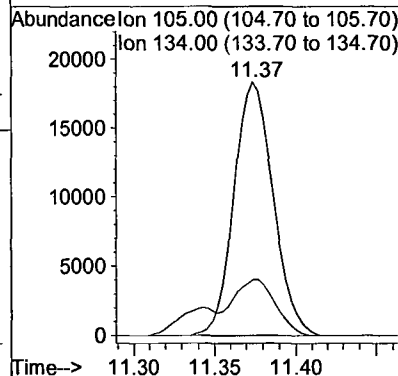
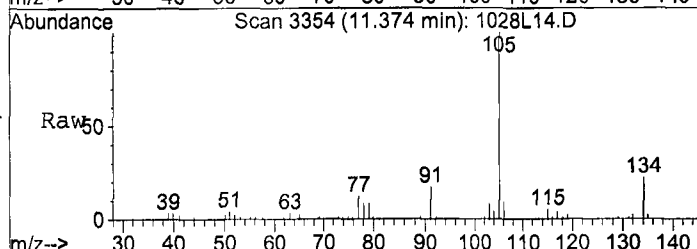
Ion	Ratio	Lower	Upper
119	100		
91	64.2	44.3	82.3
134	27.3	18.3	33.9

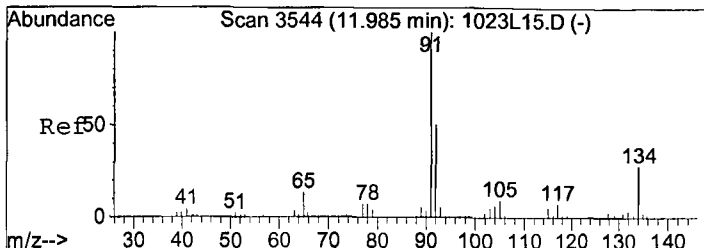


#92
 Sec-Butylbenzene
 Concen: 5.3348 ppb
 RT: 11.37 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

Tgt Ion: 105 Resp: 30799

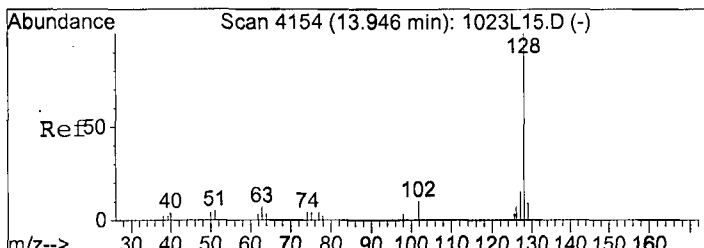
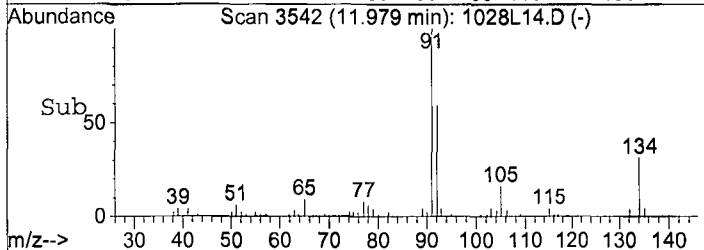
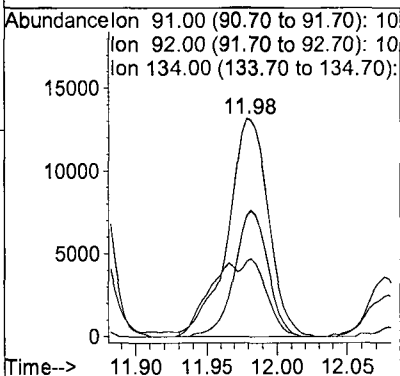
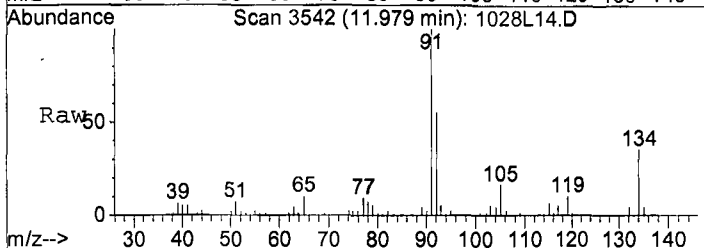
Ion	Ratio	Lower	Upper
105	100		
134	22.1	15.3	28.3





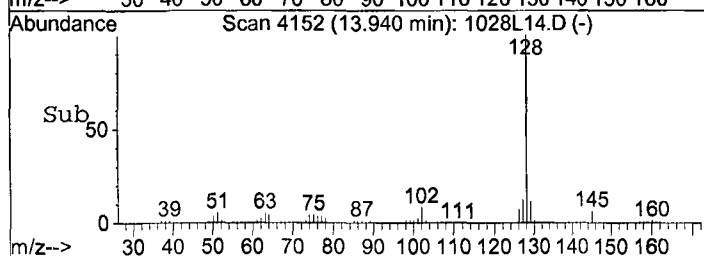
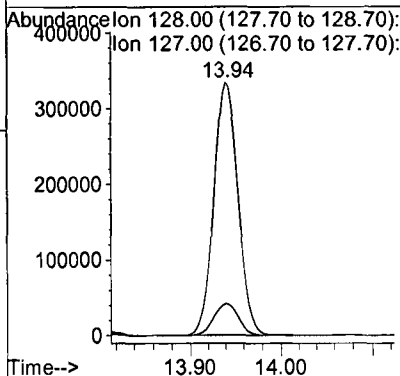
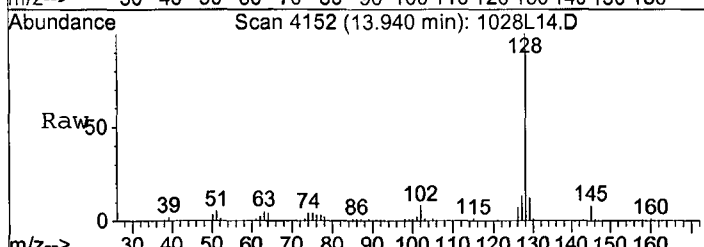
#97
 n-Butylbenzene
 Concen: 7.0232 ppb
 RT: 11.98 min Scan# 3542
 Delta R.T. -0.01 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
91	26459	91	100		
92		92	55.1	35.1	65.3
134		134	34.6	19.6	36.4



#103
 Naphthalene
 Concen: 148.3216 ppb
 RT: 13.94 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: 1028L14.D
 Acq: 28 Oct 19 16:20

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
128	633531	128	100		
127		127	12.6	10.9	20.2



Data File : M:\LOKI\DATA\191023\1028L10.D
 Acq On : 28 Oct 19 14:26
 Sample : BA01653W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:10 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	271232	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	272768	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	136576	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.50	111	86037	25.7640	ppb	0.00
Spiked Amount	25.000		Recovery	=	103.056%	
44) 1,2-DCA-D4(S)	4.95	65	100922	28.1273	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.508%	
65) Toluene-D8(S)	7.38	98	264970	26.6971	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.788%	
73) 4-Bromofluorobenzene(S)	10.28	95	90309	25.6892	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.756%	

Target Compounds

Qvalue

Quantitation Report

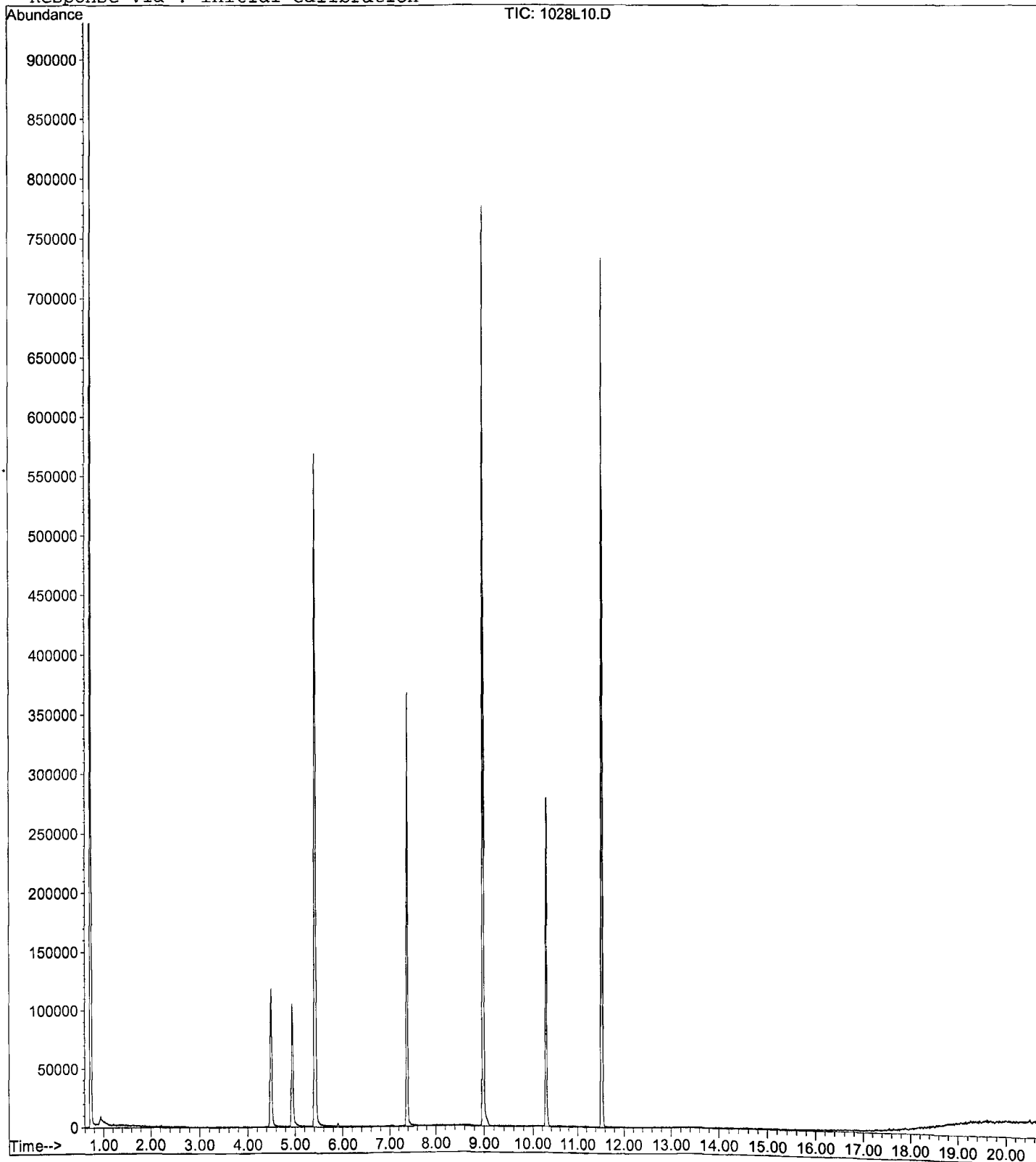
Data File : M:\LOKI\DATA\191023\1028L10.D
Acq On : 28 Oct 19 14:26
Sample : BA01653W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:10 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L15.D Vial: 15
 Acq On : 28 Oct 19 16:48 Operator:
 Sample : BA01654W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:13 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	286144	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	284032	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	146496	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	87852	24.9366	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	99.748%
44) 1,2-DCA-D4(S)	4.95	65	102360	27.0414	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	108.164%
65) Toluene-D8(S)	7.38	98	269528	26.0794	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	104.316%
73) 4-Bromofluorobenzene(S)	10.28	95	93905	25.6528	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	102.612%
Target Compounds						Qvalue
103) Naphthalene	13.94	128	30734	18.7103	ppb	95

Quantitation Report

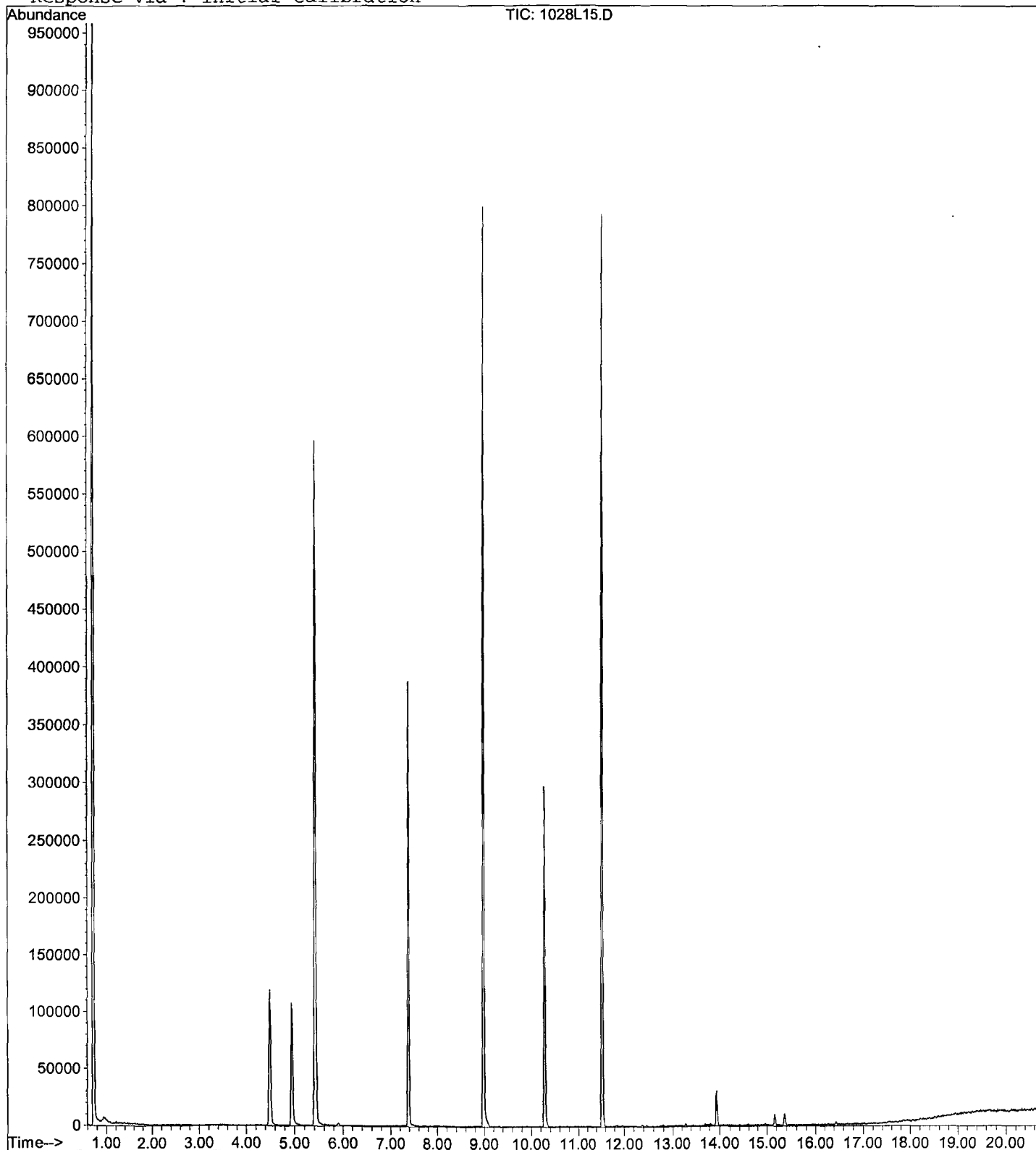
Data File : M:\LOKI\DATA\191023\1028L15.D
Acq On : 28 Oct 19 16:48
Sample : BA01654W01
Misc : IS&S:10/7/19, 10/23/19

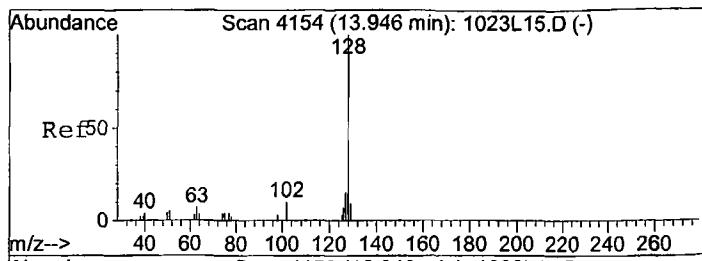
Vial: 15
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:13 2019

Quant Results File: L1023W.RES

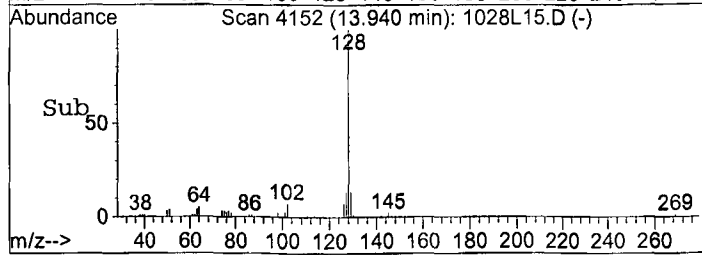
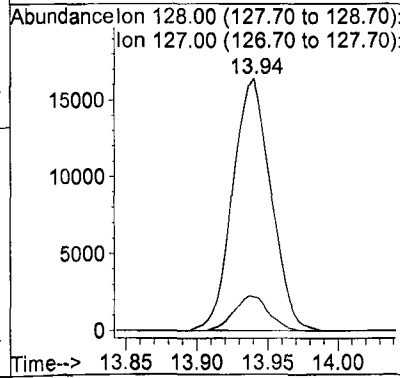
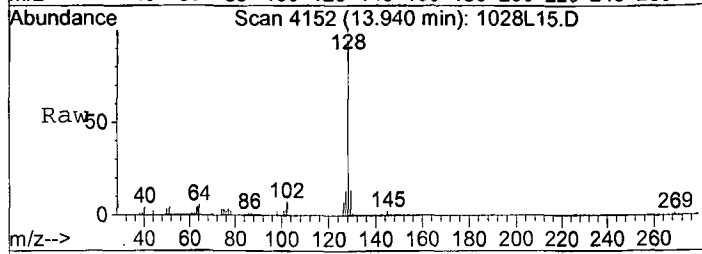
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration





#103
 Naphthalene
 Concen: 18.7103 ppb
 RT: 13.94 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: 1028L15.D
 Acq: 28 Oct 19 16:48

Tgt Ion:128 Resp: 30734
 Ion Ratio Lower Upper
 128 100
 127 13.5 10.9 20.2



Data File : M:\LOKI\DATA\191023\1028L16.D Vial: 16
 Acq On : 28 Oct 19 17:17 Operator:
 Sample : BA01655W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:13 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	268736	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	274368	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	145728	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	82843	25.0380	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.152%	
44) 1,2-DCA-D4(S)	4.95	65	97088	27.3101	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.240%	
65) Toluene-D8(S)	7.38	98	259169	25.9604	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.840%	
73) 4-Bromofluorobenzene(S)	10.28	95	92074	26.0385	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.156%	
Target Compounds						
103) Naphthalene	13.94	128	9059	6.6420	ppb	Qvalue 97

Quantitation Report

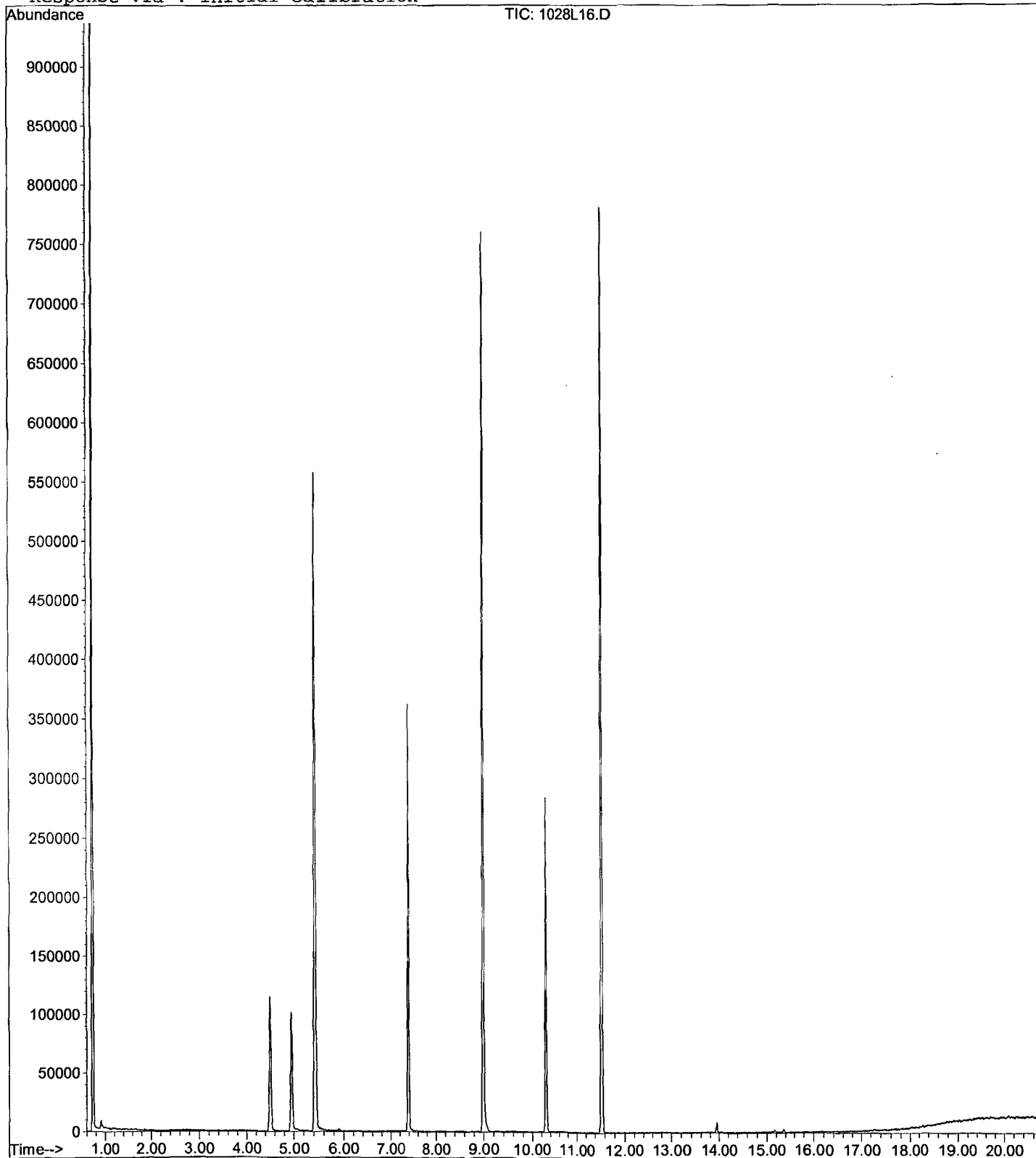
Data File : M:\LOKI\DATA\191023\1028L16.D
Acq On : 28 Oct 19 17:17
Sample : BA01655W01
Misc : IS&S:10/7/19, 10/23/19

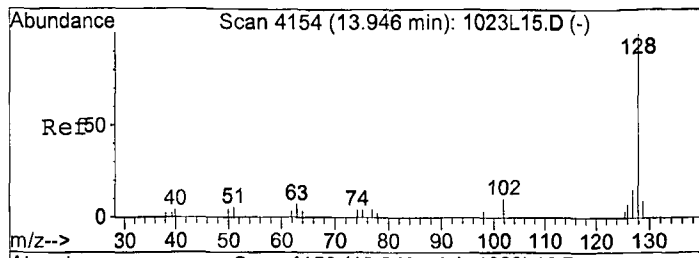
Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:13 2019

Quant Results File: L1023W.RES

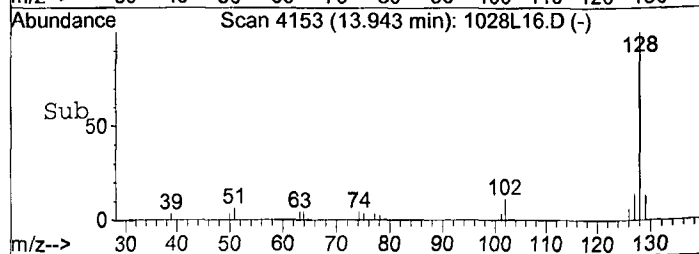
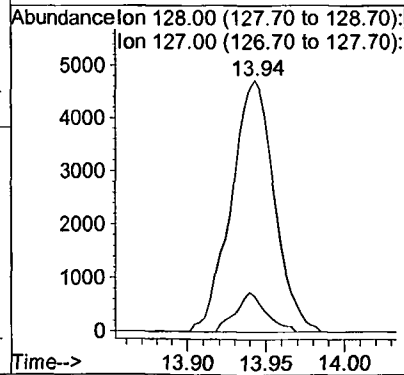
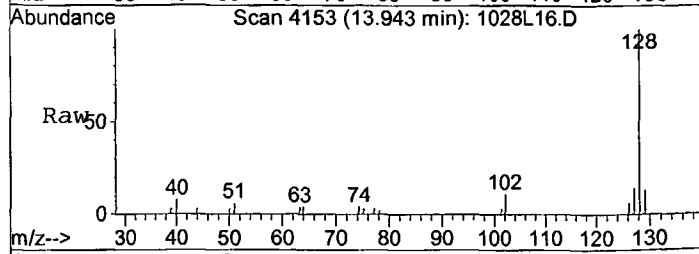
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260E
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration





#103
 Naphthalene
 Concen: 6.6420 ppb
 RT: 13.94 min Scan# 4153
 Delta R.T. -0.00 min
 Lab File: 1028L16.D
 Acq: 28 Oct 19 17:17

Tgt Ion:128 Resp: 9059
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.9 20.2



Data File : M:\LOKI\DATA\191023\1028L17.D Vial: 17
 Acq On : 28 Oct 19 17:45 Operator:
 Sample : BA01656W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:13 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	274688	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	268096	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	138176	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	83646	24.7329	ppb	0.00
Spiked Amount				25.000		
				Recovery =	98.932%	
44) 1,2-DCA-D4(S)	4.95	65	98756	27.1774	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.708%	
65) Toluene-D8(S)	7.38	98	257579	26.4047	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.620%	
73) 4-Bromofluorobenzene(S)	10.29	95	90256	26.1215	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.488%	

Target Compounds Qvalue

Quantitation Report

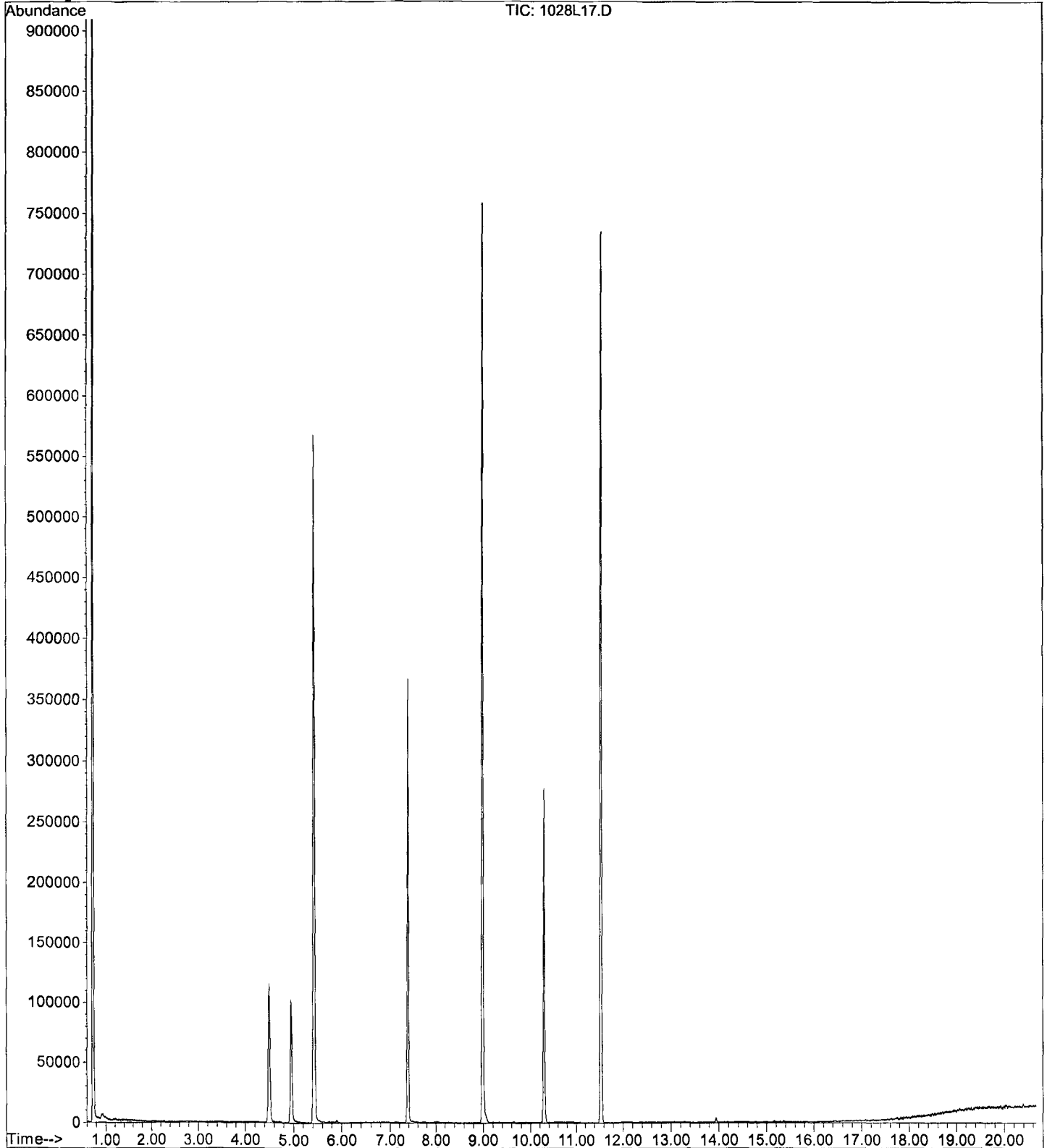
Data File : M:\LOKI\DATA\191023\1028L17.D
Acq On : 28 Oct 19 17:45
Sample : BA01656W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 17
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L11.D Vial: 11
 Acq On : 28 Oct 19 14:54 Operator:
 Sample : BA01657W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:10 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	275776	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	277888	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	139648	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	84821	24.9814	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.924%	
44) 1,2-DCA-D4(S)	4.95	65	101657	27.8654	ppb	0.00
Spiked Amount				25.000		
				Recovery =	111.460%	
65) Toluene-D8(S)	7.38	98	264057	26.1150	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.460%	
73) 4-Bromofluorobenzene(S)	10.28	95	88903	24.8233	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.292%	

Target Compounds Qvalue

Quantitation Report

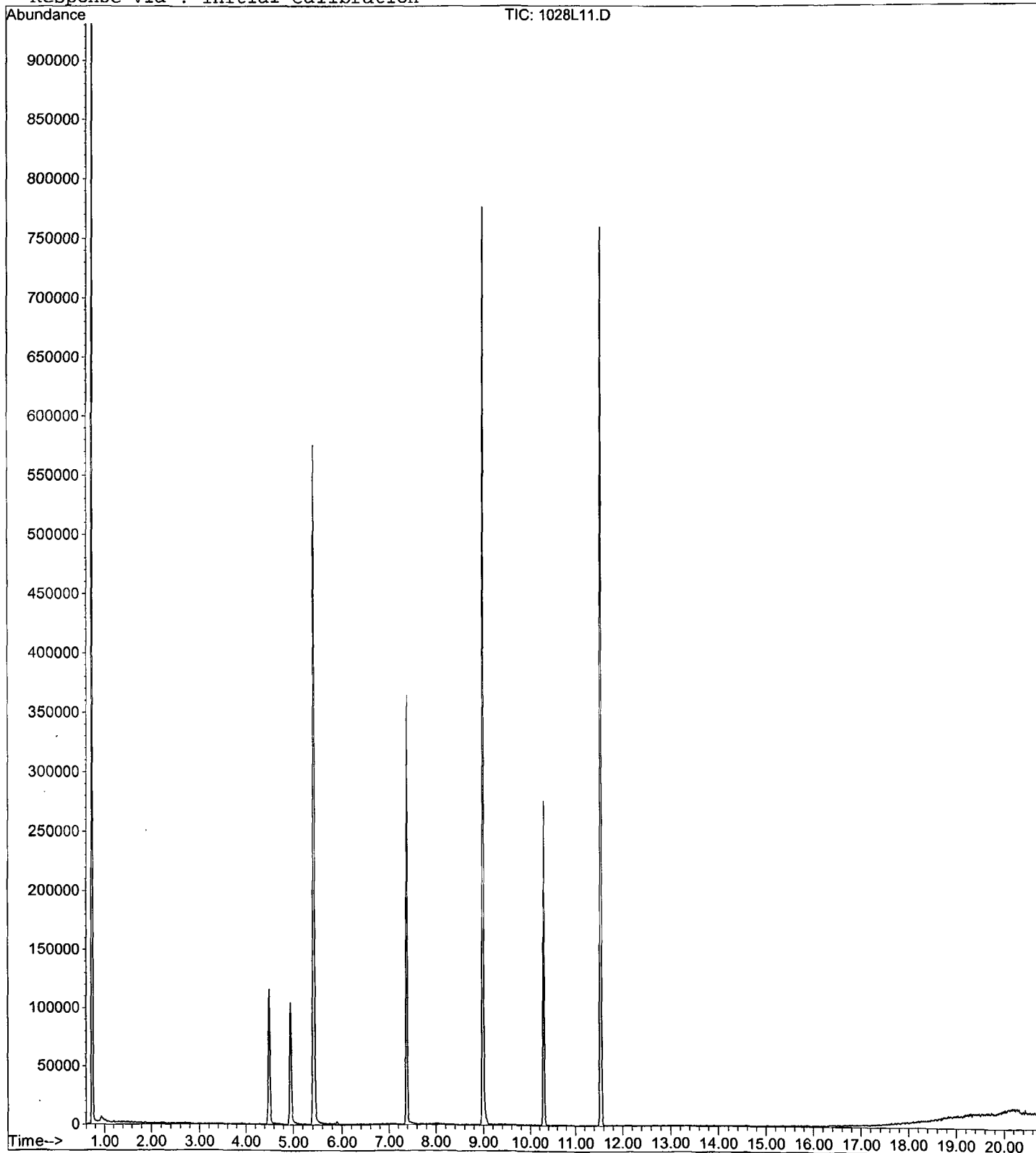
Data File : M:\LOKI\DATA\191023\1028L11.D
Acq On : 28 Oct 19 14:54
Sample : BA01657W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:10 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L32.D
 Acq On : 29 Oct 19 00:52
 Sample : BA01658W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 32
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:15 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	272704	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	271168	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	131200	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	84377	25.1306	ppb	0.00
Spiked Amount	25.000					Recovery = 100.524%
44) 1,2-DCA-D4(S)	4.94	65	95551	26.4867	ppb	0.00
Spiked Amount	25.000					Recovery = 105.948%
65) Toluene-D8(S)	7.38	98	256243	25.9702	ppb	0.00
Spiked Amount	25.000					Recovery = 103.880%
73) 4-Bromofluorobenzene(S)	10.28	95	86955	24.8811	ppb	0.00
Spiked Amount	25.000					Recovery = 99.524%

Target Compounds Qvalue

Quantitation Report

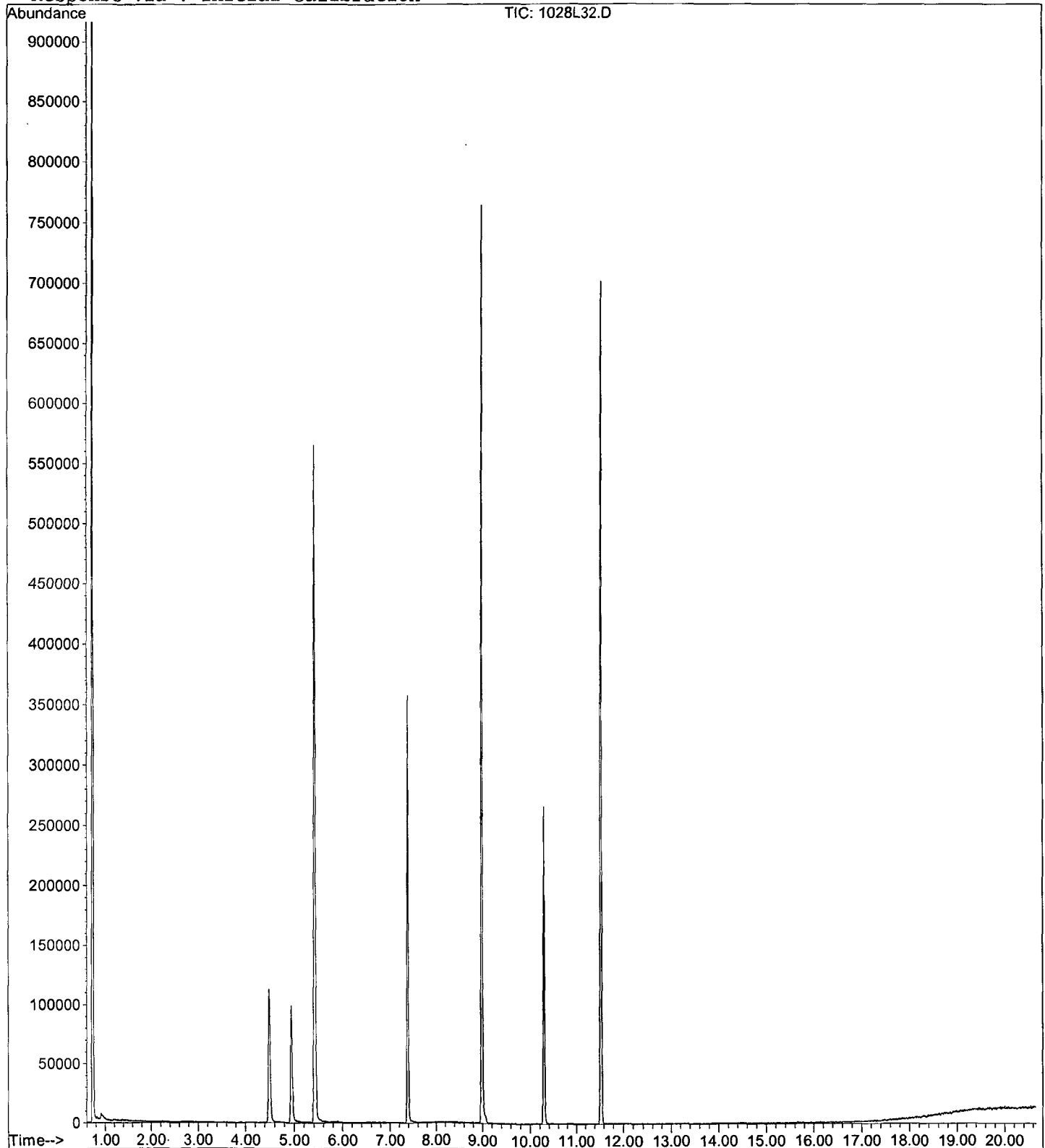
Data File : M:\LOKI\DATA\191023\1028L32.D
Acq On : 29 Oct 19 00:52
Sample : BA01658W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:15 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L38.D
 Acq On : 29 Oct 19 3:43
 Sample : BA01659W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 38
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	273664	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	271296	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	125824	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.50	111	85255	25.3030	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.212%	
44) 1,2-DCA-D4(S)	4.94	65	97573	26.9523	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.808%	
65) Toluene-D8(S)	7.38	98	256697	26.0039	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.016%	
73) 4-Bromofluorobenzene(S)	10.28	95	86781	24.8196	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.280%	

Target Compounds

Qvalue

Quantitation Report

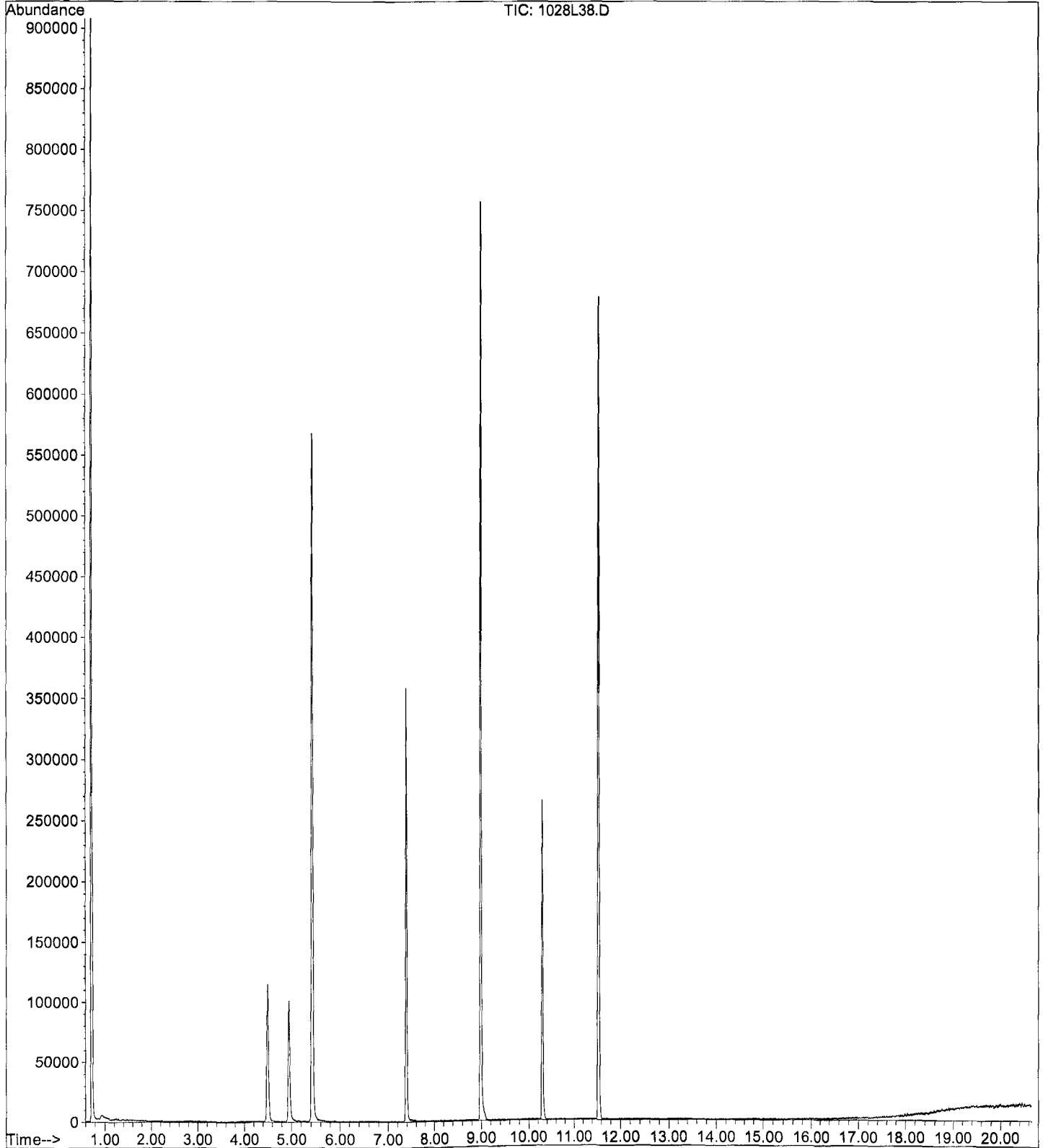
Data File : M:\LOKI\DATA\191023\1028L38.D
Acq On : 29 Oct 19 3:43
Sample : BA01659W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 38
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L33.D Vial: 33
 Acq On : 29 Oct 19 1:21 Operator:
 Sample : BA01660W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:15 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	271808	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	269312	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	129544	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	84447	25.2343	ppb	0.00
Spiked Amount				25.000		
				Recovery = 100.936%		
44) 1,2-DCA-D4(S)	4.95	65	99332	27.6255	ppb	0.00
Spiked Amount				25.000		
				Recovery = 110.504%		
65) Toluene-D8(S)	7.38	98	255932	26.1174	ppb	0.00
Spiked Amount				25.000		
				Recovery = 104.468%		
73) 4-Bromofluorobenzene(S)	10.28	95	89899	25.9007	ppb	0.00
Spiked Amount				25.000		
				Recovery = 103.604%		

Target Compounds Qvalue

Quantitation Report

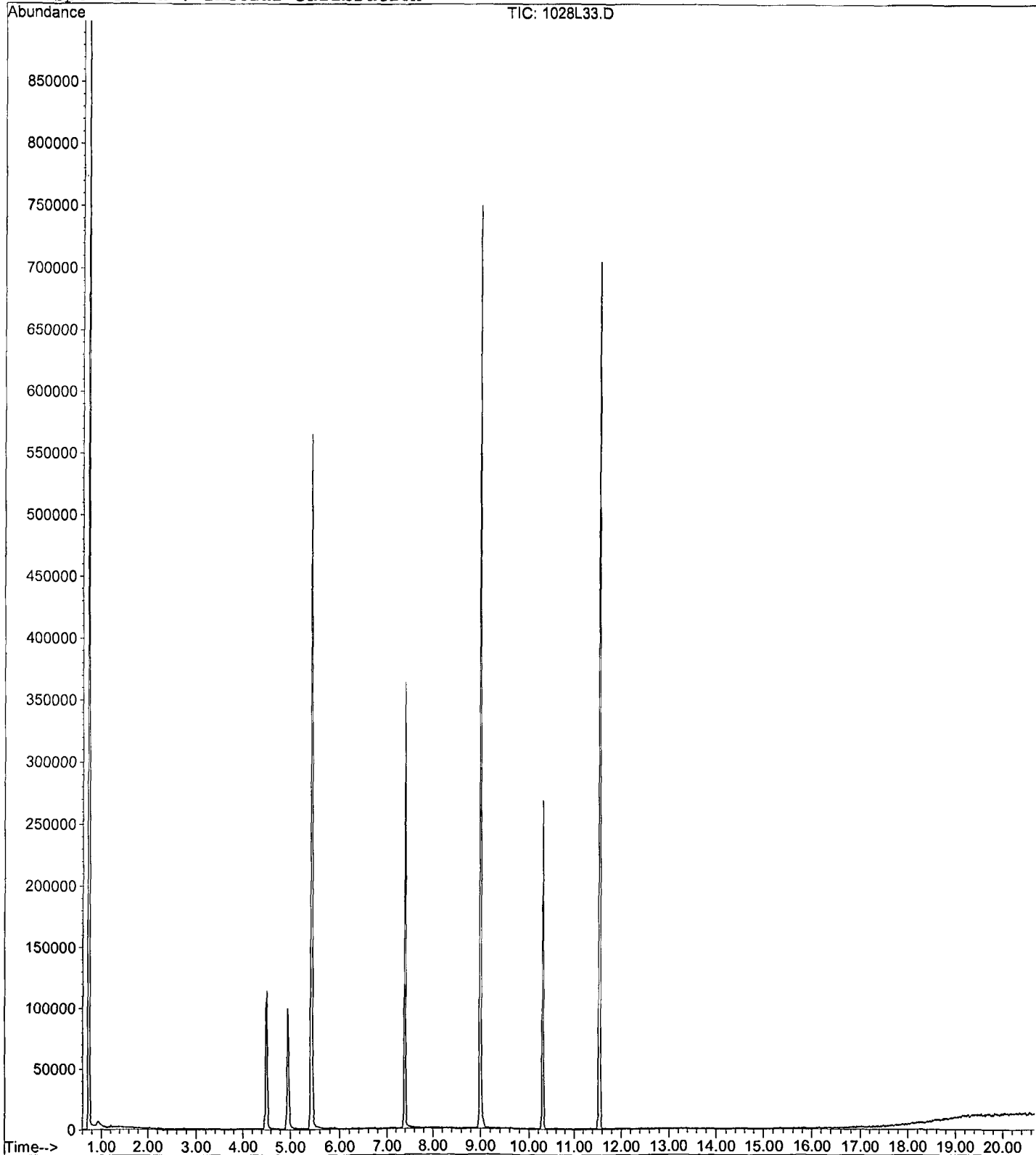
Data File : M:\LOKI\DATA\191023\1028L33.D
Acq On : 29 Oct 19 1:21
Sample : BA01660W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:15 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L36.D
 Acq On : 29 Oct 19 2:46
 Sample : BA01661W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 36
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:16 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	275776	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	271168	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	131136	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	86642	25.5177	ppb	0.00
Spiked Amount				25.000		
				Recovery = 102.072%		
44) 1,2-DCA-D4(S)	4.95	65	99693	27.3270	ppb	0.00
Spiked Amount				25.000		
				Recovery = 109.308%		
65) Toluene-D8(S)	7.38	98	258779	26.2272	ppb	0.00
Spiked Amount				25.000		
				Recovery = 104.908%		
73) 4-Bromofluorobenzene(S)	10.29	95	87441	25.0201	ppb	0.00
Spiked Amount				25.000		
				Recovery = 100.080%		

Target Compounds Qvalue

Quantitation Report

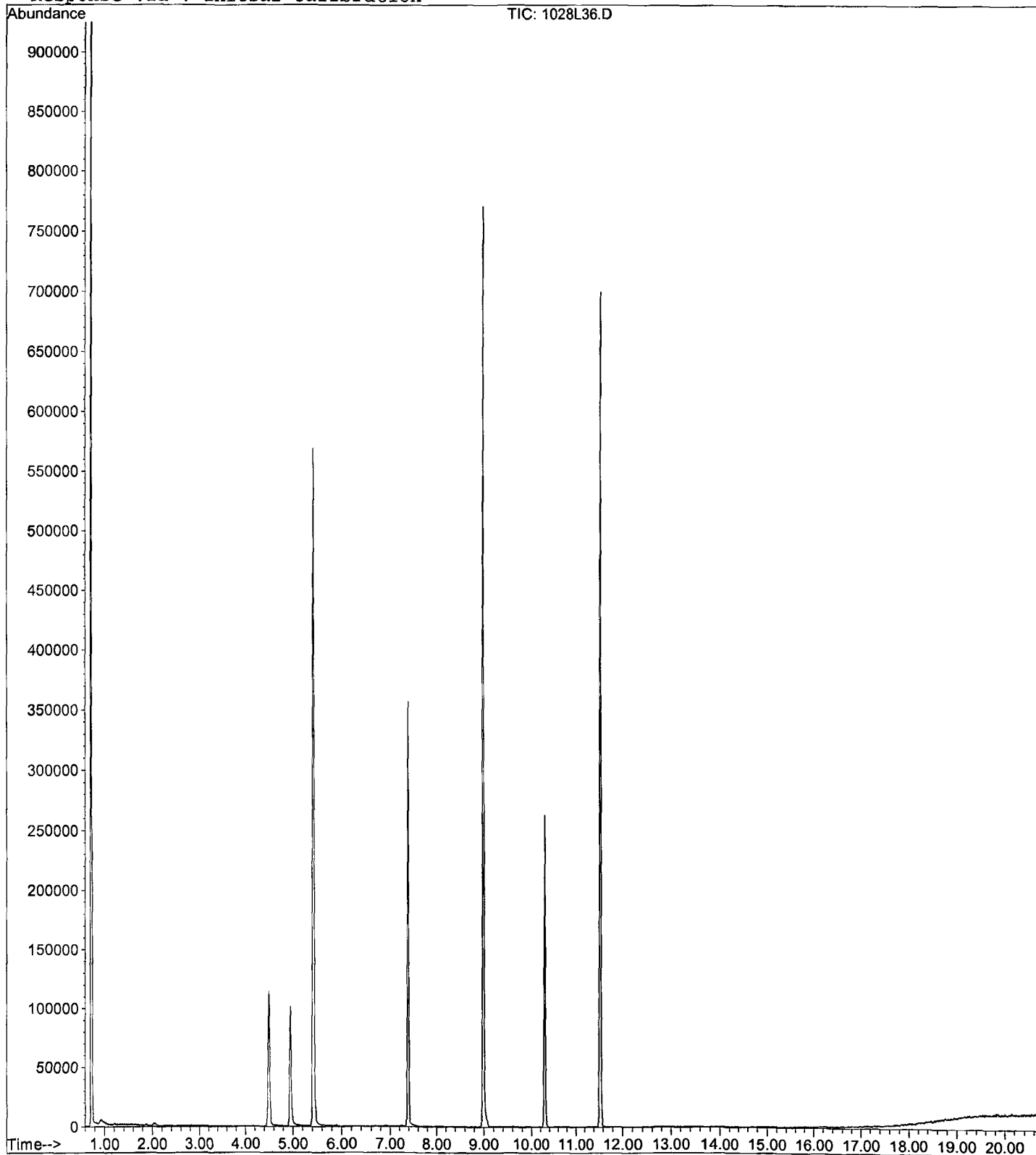
Data File : M:\LOKI\DATA\191023\1028L36.D
Acq On : 29 Oct 19 2:46
Sample : BA01661W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 36
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:16 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L34.D Vial: 34
 Acq On : 29 Oct 19 1:49 Operator:
 Sample : BA01662W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:16 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	276096	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	278336	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	132864	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	88333	25.9856	ppb	0.00
Spiked Amount				25.000		
				Recovery =	103.944%	
44) 1,2-DCA-D4(S)	4.94	65	100195	27.4328	ppb	0.00
Spiked Amount				25.000		
				Recovery =	109.732%	
65) Toluene-D8(S)	7.38	98	267727	26.4353	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.740%	
73) 4-Bromofluorobenzene(S)	10.28	95	88943	24.7945	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.176%	

Target Compounds Qvalue

Quantitation Report

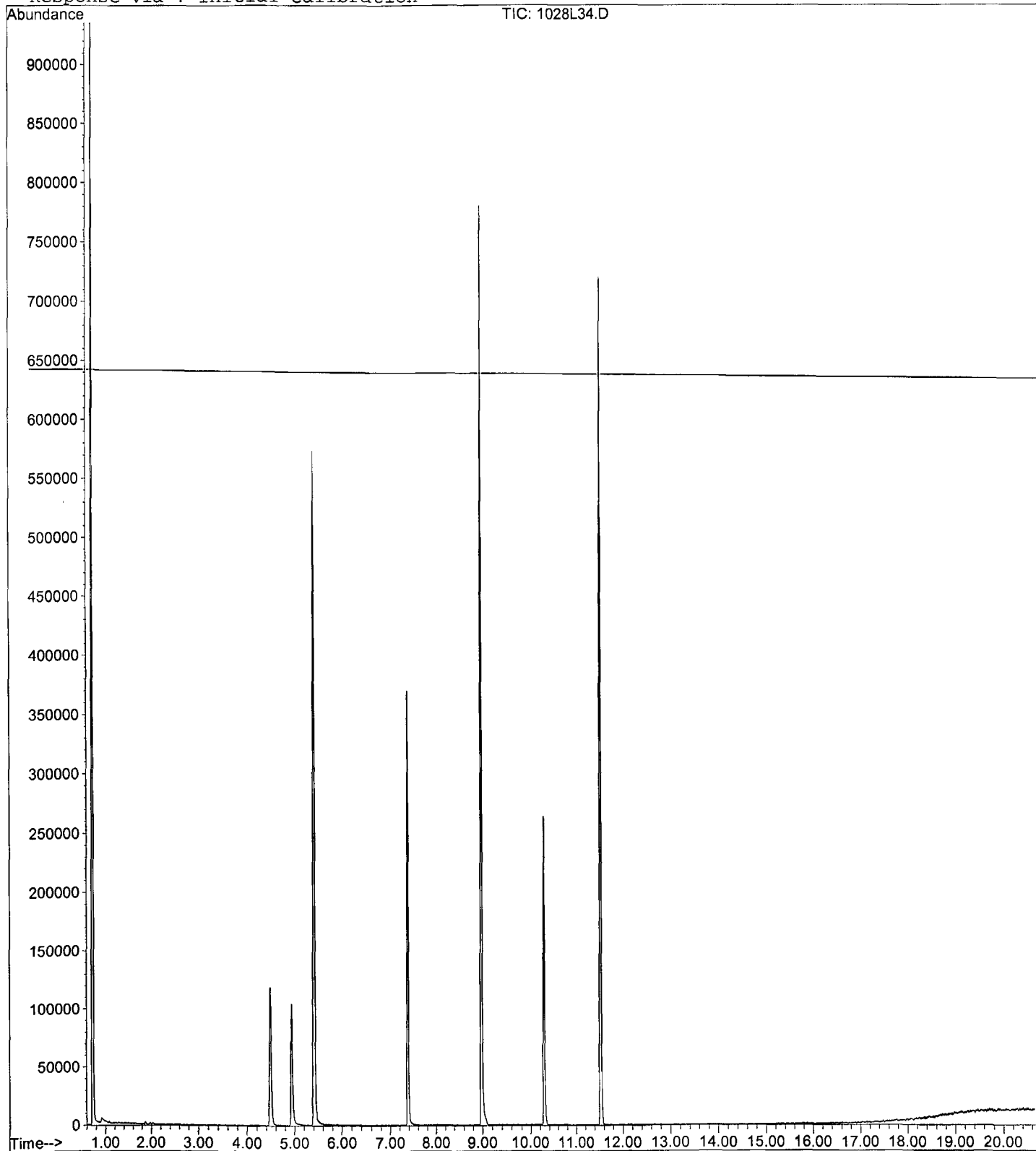
Data File : M:\LOKI\DATA\191023\1028L34.D
Acq On : 29 Oct 19 1:49
Sample : BA01662W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 34
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:16 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L37.D Vial: 37
 Acq On : 29 Oct 19 3:14 Operator:
 Sample : BA01663W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	271808	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	274304	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	139456	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	86756	25.9243	ppb	0.00
Spiked Amount				25.000		
				Recovery =	103.696%	
44) 1,2-DCA-D4(S)	4.95	65	100518	27.9554	ppb	0.00
Spiked Amount				25.000		
				Recovery =	111.820%	
65) Toluene-D8(S)	7.38	98	260644	26.1142	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.456%	
73) 4-Bromofluorobenzene(S)	10.29	95	87153	24.6526	ppb	0.00
Spiked Amount				25.000		
				Recovery =	98.612%	

Target Compounds Qvalue

Quantitation Report

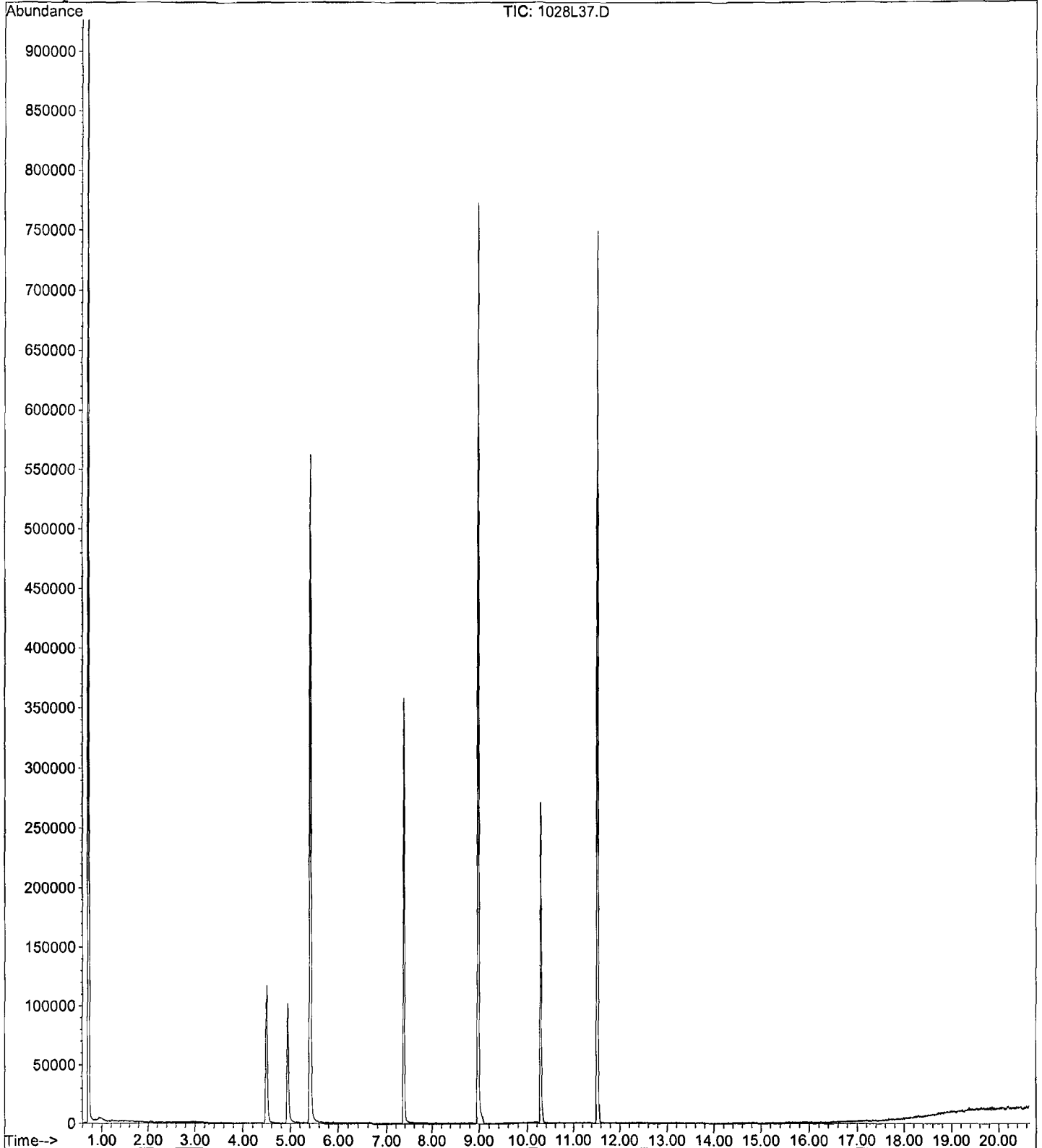
Data File : M:\LOKI\DATA\191023\1028L37.D
Acq On : 29 Oct 19 3:14
Sample : BA01663W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 37
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L35.D Vial: 35
 Acq On : 29 Oct 19 2:17 Operator:
 Sample : BA01664W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:16 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	261312	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	257024	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	130352	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	84592	26.2930	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	105.172%
44) 1,2-DCA-D4(S)	4.95	65	96391	27.8844	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	111.536%
65) Toluene-D8(S)	7.38	98	249157	26.6416	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	106.568%
73) 4-Bromofluorobenzene(S)	10.29	95	85398	25.7802	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	103.120%

Target Compounds Qvalue

Quantitation Report

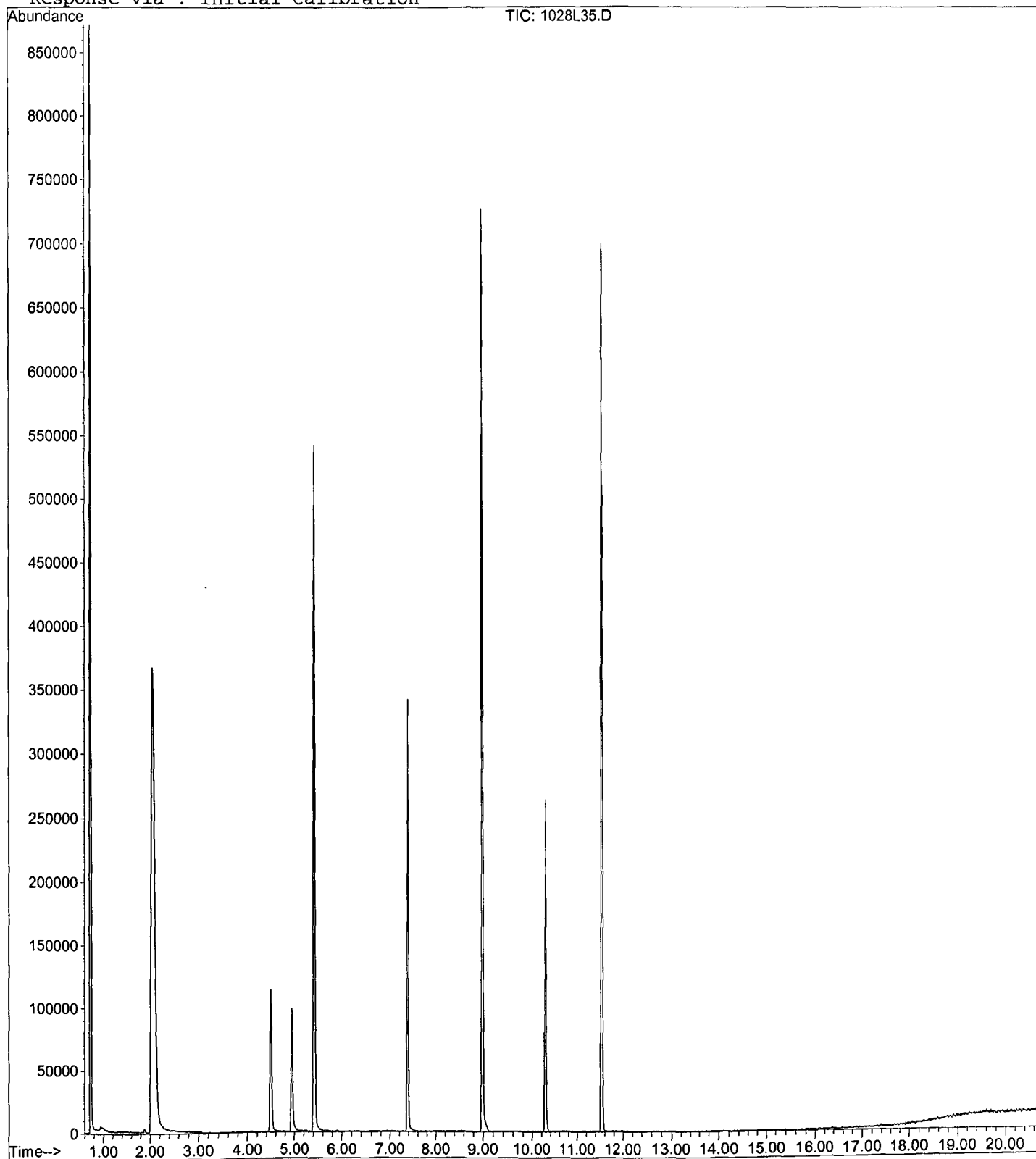
Data File : M:\LOKI\DATA\191023\1028L35.D
Acq On : 29 Oct 19 2:17
Sample : BA01664W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 35
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:16 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L08.D Vial: 8
 Acq On : 28 Oct 19 12:59 Operator:
 Sample : 191028A BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:03 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	273344	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.98	117	248256	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	144576	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.49	111	84013	24.9636	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.856%	
44) 1,2-DCA-D4(S)	4.94	65	99495	27.5154	ppb	0.00
Spiked Amount				25.000		
				Recovery =	110.060%	
65) Toluene-D8(S)	7.38	98	243888	26.9993	ppb	0.00
Spiked Amount				25.000		
				Recovery =	107.996%	
73) 4-Bromofluorobenzene(S)	10.28	95	86768	27.1189	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.476%	

Target Compounds Qvalue

Quantitation Report

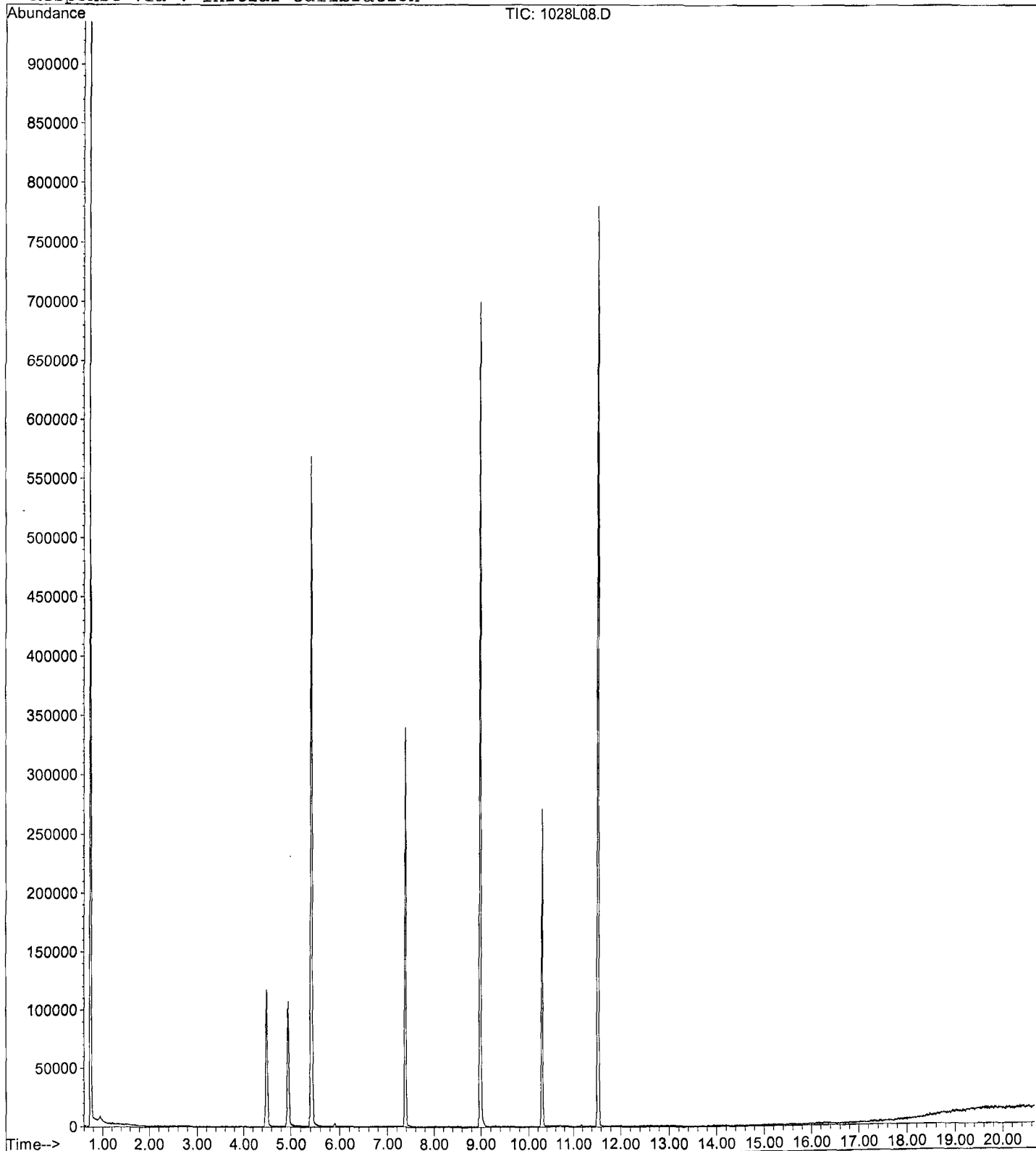
Data File : M:\LOKI\DATA\191023\1028L08.D
Acq On : 28 Oct 19 12:59
Sample : 191028A BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:03 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L27.D Vial: 27
 Acq On : 28 Oct 19 22:30 Operator:
 Sample : 191028B BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:14 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283200	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	274752	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	138880	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	87049	24.9655	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.864%
44) 1,2-DCA-D4(S)	4.95	65	100947	26.9454	ppb	0.00
Spiked Amount				25.000		
					Recovery =	107.780%
65) Toluene-D8(S)	7.38	98	265753	26.5827	ppb	0.00
Spiked Amount				25.000		
					Recovery =	106.332%
73) 4-Bromofluorobenzene(S)	10.29	95	90992	25.6966	ppb	0.00
Spiked Amount				25.000		
					Recovery =	102.788%

Target Compounds Qvalue

Quantitation Report

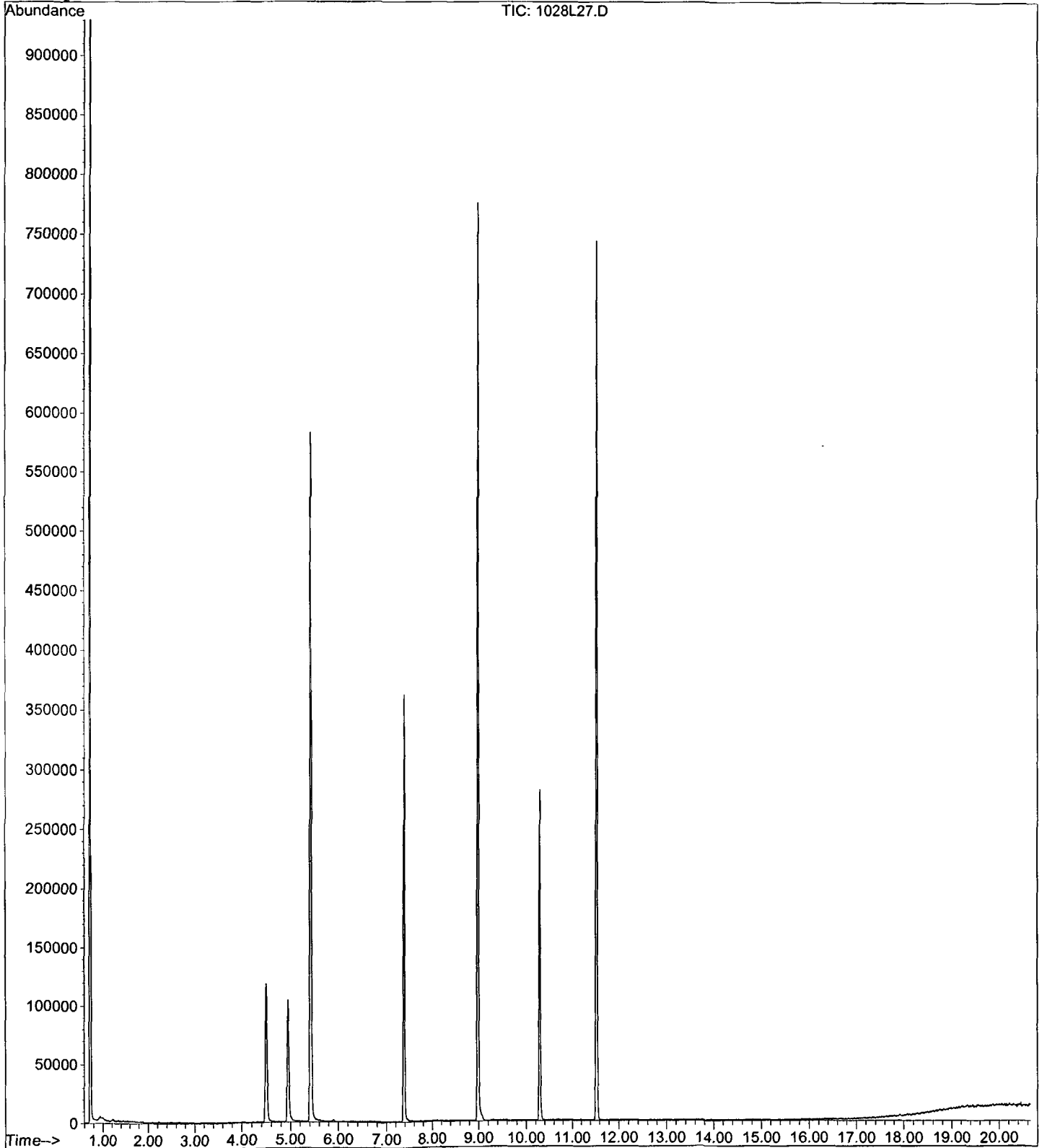
Data File : M:\LOKI\DATA\191023\1028L27.D
Acq On : 28 Oct 19 22:30
Sample : 191028B BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:14 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L03.D
 Acq On : 28 Oct 19 7:21
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 3
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	288128	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	277760	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	154752	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.49	111	87528	24.6735	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.696%	
44) 1,2-DCA-D4(S)	4.95	65	102768	26.9623	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.848%	
65) Toluene-D8(S)	7.38	98	277825	27.4893	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.956%	
73) 4-Bromofluorobenzene(S)	10.29	95	104364	29.1537	ppb	0.00
Spiked Amount	25.000		Recovery	=	116.616%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.83	87	5229	7.9696	ppb	82
4) Freon 114	0.91	85	7423	5.0533	ppb	94
5) Chloromethane	0.94	50	12731	6.3574	ppb	95
6) Vinyl chloride	1.01	62	13295	6.2724	ppb	95
8) Bromomethane	1.21	94	14383	5.4731	ppb	96
9) Chloroethane	1.27	64	7858	4.6094	ppb	99
10) Dichlorofluoromethane	1.41	67	22422	5.4968	ppb	94
11) Trichlorofluoromethane	1.45	103	19871	8.1799	ppb	91
13) Acrolein	1.74	56	6180	29.1258	ppb	# 72
14) Acetone	1.88	43	4385	3.7485	ppb	# 88
15) Freon-113	1.83	101	12399	6.4913	ppb	94
16) 1,1-DCE	1.82	96	9681	5.3998	ppb	95
17) t-Butanol	2.44	59	6856	38.0203	ppb	# 89
19) Acetonitrile	2.11	41	6651	20.5129	ppb	94
20) Methyl Acetate	2.16	43	7220	4.3284	ppb	89
21) Iodomethane	1.92	142	3668	3.9407	ppb	98
22) Acrylonitrile	2.47	53	4819	4.2920	ppb	88
23) Methylene chloride	2.23	84	13716	5.8474	ppb	96
24) Carbon disulfide	1.97	76	14348	3.7488	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.52	73	31344	7.3501	ppb	# 90
26) Trans-1,2-DCE	2.49	96	11865	5.8550	ppb	91
27) Diisopropyl Ether	3.10	45	30707	7.8391	ppb	# 80
29) 1,1-DCA	2.94	63	22470	7.3606	ppb	91
30) Vinyl Acetate	3.10	45	30707	7.8391	ppb	# 80
31) Ethyl tert Butyl Ether	3.60	59	16134	11.5333	ppb	94
32) MEK (2-Butanone)	3.82	43	1167	6.9808	ppb	92
33) Cis-1,2-DCE	3.73	96	14064	8.4064	ppb	93
34) 2,2-Dichloropropane	3.71	77	21030	9.4607	ppb	# 90
37) Chloroform	4.26	83	27494	8.5638	ppb	95
38) Bromochloromethane	4.09	128	9283	8.6799	ppb	# 68
40) 1,1,1-TCA	4.48	97	27094	9.8314	ppb	88
41) Cyclohexane	4.55	41	6170	6.3619	ppb	79
42) 1,1-Dichloropropene	4.74	75	13003	7.9024	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	22220	8.2072	ppb	83
45) Carbon Tetrachloride	4.72	117	24019	9.8429	ppb	100
46) Tert Amyl Methyl Ether	5.27	73	13801	14.0128	ppb	# 86
48) 1,2-DCA	5.05	62	21439	9.1596	ppb	93
49) Benzene	5.01	78	47777	8.2831	ppb	97
50) TCE	5.90	130	16879	9.1709	ppb	# 86

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

Data File : M:\LOKI\DATA\191023\1028L03.D
 Acq On : 28 Oct 19 7:21
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 3
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	25410	41.9824	ppb	99
52) 1,2-Dichloropropane	6.16	63	11965	8.1695	ppb	96
53) Bromodichloromethane	6.54	83	23383	10.1382	ppb #	96
54) Methyl Cyclohexane	6.13	83	13441	8.8399	ppb	91
55) Dibromomethane	6.30	93	9298	8.1674	ppb	89
57) MIBK (methyl isobutyl ket	7.31	43	7893	10.1819	ppb #	93
58) 1-Bromo-2-chloroethane	6.87	63	16241	8.9581	ppb	99
59) Cis-1,3-Dichloropropene	7.09	75	18707	9.9523	ppb	92
60) Toluene	7.45	91	54207	9.8194	ppb	95
61) Trans-1,3-Dichloropropene	7.74	75	17474	10.6496	ppb	95
62) 1,1,2-TCA	7.93	83	10968	9.3079	ppb	76
63) 2-Hexanone	8.27	43	2594	9.1420	ppb #	81
66) 1,2-EDB	8.45	107	13844	9.6410	ppb	85
67) Tetrachloroethene	8.07	166	20449	9.5362	ppb	93
68) 1-Chlorohexane	9.05	91	12883	9.8277	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.12	131	20674	10.7289	ppb	93
70) m&p-Xylene	9.30	91	90858	19.6878	ppb	98
71) o-Xylene	9.73	106	22282	10.3929	ppb	99
72) Styrene	9.74	104	34903	9.3888	ppb	96
74) 1,3-Dichloropropane	8.11	76	21489	9.5734	ppb	99
75) Dibromochloromethane	8.35	129	20825	9.9457	ppb	96
76) Chlorobenzene	9.02	112	42267	9.2396	ppb	93
77) Ethylbenzene	9.17	91	58690	10.8845	ppb	93
78) Bromoform	9.91	173	15960	10.5069	ppb	85
80) Isopropylbenzene	10.14	105	33200	10.3028	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	17656	8.8195	ppb	90
82) 1,2,3-Trichloropropane	10.50	110	6288	9.2293	ppb	87
83) t-1,4-Dichloro-2-Butene	10.53	53	2273	9.9725	ppb	85
84) Bromobenzene	10.43	156	21219	9.7518	ppb	92
85) n-Propylbenzene	10.59	91	62441	9.8656	ppb	99
86) 4-Ethyltoluene	10.72	105	54480	9.9031	ppb	96
87) 2-Chlorotoluene	10.65	91	24968	10.1646	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	51311	9.8549	ppb	97
89) 4-Chlorotoluene	10.78	126	9693	10.3456	ppb	92
90) Tert-Butylbenzene	11.14	119	46544	11.5037	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	49955	10.6007	ppb	96
92) Sec-Butylbenzene	11.37	105	59747	10.9697	ppb	99
93) p-Isopropyltoluene	11.54	119	56505	10.2770	ppb	93
94) Benzyl Chloride	11.72	91	13973	9.9664	ppb	98
95) 1,3-DCB	11.46	146	37549	10.6714	ppb	92
96) 1,4-DCB	11.56	146	39779	9.3658	ppb	98
97) n-Butylbenzene	11.98	91	39548	11.1271	ppb	89
98) 1,2-DCB	11.95	146	37158	10.5079	ppb	96
99) Hexachloroethane	12.23	201	15758	14.0945	ppb #	81
100) 1,2-Dibromo-3-chloropropan	12.79	75	2807	10.5486	ppb	85
101) 1,2,4-Trichlorobenzene	13.69	180	19314	16.5806	ppb	84
102) Hexachlorobutadiene	13.90	223	5762	18.1752	ppb #	71
103) Naphthalene	13.94	128	25217	15.1593	ppb	96
104) 1,2,3-Trichlorobenzene	14.21	182	9628	14.2338	ppb	92

(#) = qualifier out of range (m) = manual integration
 1028L03.D L1023W.M Thu Nov 21 08:13:09 2019

Quantitation Report

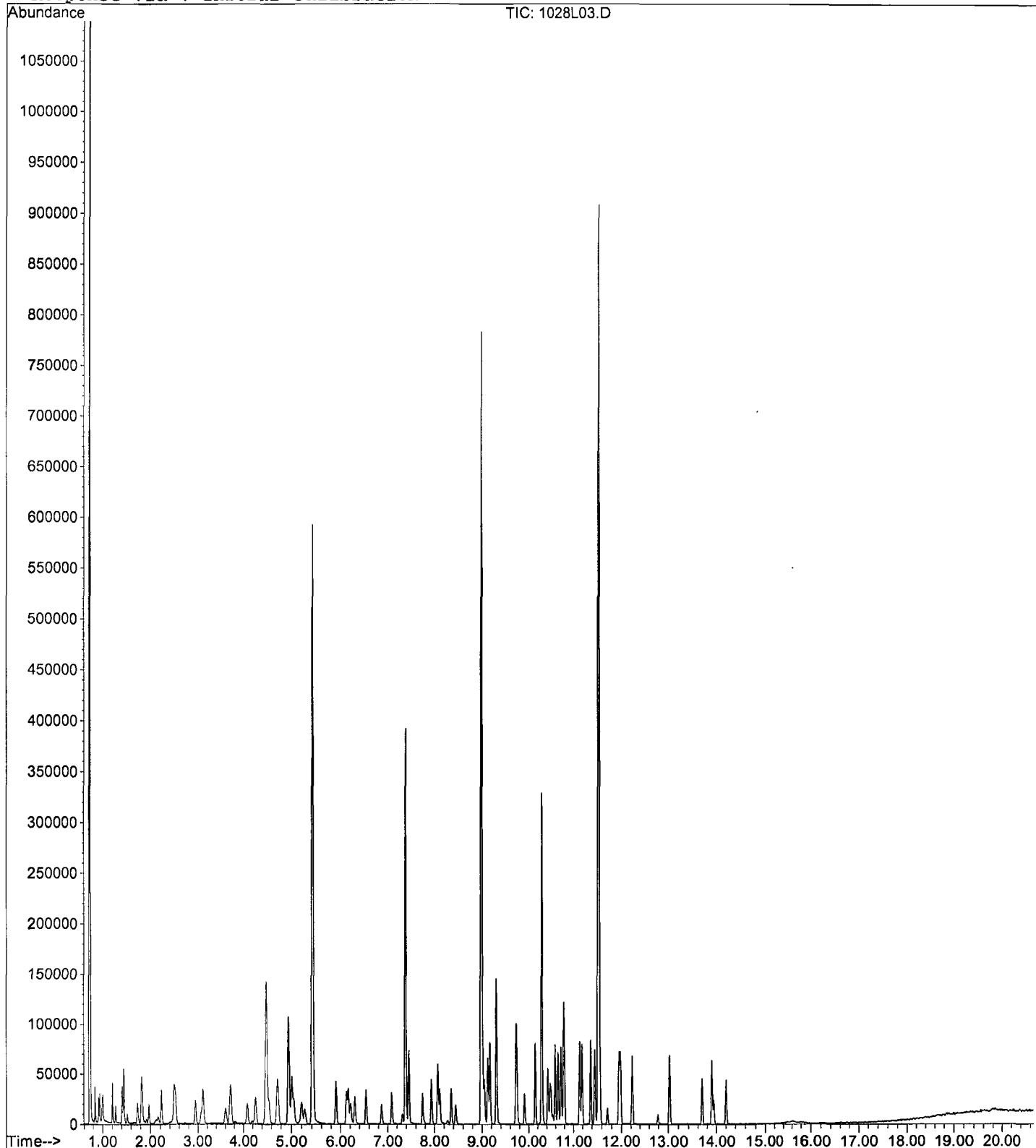
Data File : M:\LOKI\DATA\191023\1028L03.D
Acq On : 28 Oct 19 7:21
Sample : 191028A CCV/LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 3
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L22.D
 Acq On : 28 Oct 19 20:08
 Sample : 191028B LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	300864	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	290688	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	170880	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	89857	24.2578	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.032%	
44) 1,2-DCA-D4 (S)	4.95	65	106225	26.6895	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.756%	
65) Toluene-D8 (S)	7.38	98	283404	26.7942	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.176%	
73) 4-Bromofluorobenzene (S)	10.29	95	106887	28.5306	ppb	0.00
Spiked Amount	25.000		Recovery	=	114.124%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	7097	10.3409	ppb	86
4) Freon 114	0.91	85	14880	11.0918	ppb	98
5) Chloromethane	0.94	50	15151	7.3264	ppb	99
6) Vinyl chloride	1.01	62	14628	6.6092	ppb	93
8) Bromomethane	1.21	94	17557	6.4710	ppb	98
9) Chloroethane	1.27	64	9194	5.1927	ppb	99
10) Dichlorofluoromethane	1.41	67	27316	6.4131	ppb	94
11) Trichlorofluoromethane	1.45	103	22143	8.7293	ppb	97
13) Acrolein	1.74	56	13779	62.1902	ppb	# 95
14) Acetone	1.87	43	6147	6.6288	ppb	91
15) Freon-113	1.83	101	15012	7.5266	ppb	84
16) 1,1-DCE	1.82	96	14525	8.2446	ppb	97
17) t-Butanol	2.43	59	18380	95.7567	ppb	# 86
19) Acetonitrile	2.10	41	23128	68.3115	ppb	95
20) Methyl Acetate	2.16	43	10543	6.3211	ppb	96
21) Iodomethane	1.92	142	4501	4.3310	ppb	92
22) Acrylonitrile	2.47	53	6193	5.8921	ppb	# 77
23) Methylene chloride	2.23	84	17895	7.7615	ppb	95
24) Carbon disulfide	1.97	76	29336	7.6542	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	38499	8.6458	ppb	# 89
26) Trans-1,2-DCE	2.49	96	16772	8.2494	ppb	92
27) Diisopropyl Ether	3.11	45	34475	8.4284	ppb	# 83
29) 1,1-DCA	2.95	63	27698	8.6891	ppb	94
30) Vinyl Acetate	3.11	45	34475	8.4284	ppb	# 83
31) Ethyl tert Butyl Ether	3.61	59	21233	14.5357	ppb	89
32) MEK (2-Butanone)	3.82	43	1866	10.3174	ppb	# 80
33) Cis-1,2-DCE	3.73	96	16361	9.4320	ppb	94
34) 2,2-Dichloropropane	3.71	77	22288	9.6022	ppb	95
37) Chloroform	4.27	83	31529	9.4049	ppb	99
38) Bromochloromethane	4.09	128	10286	9.2106	ppb	# 69
40) 1,1,1-TCA	4.48	97	30114	10.4646	ppb	89
41) Cyclohexane	4.55	41	9131	8.9790	ppb	# 63
42) 1,1-Dichloropropene	4.74	75	16911	9.8423	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	29123	10.3016	ppb	88
45) Carbon Tetrachloride	4.72	117	27617	10.8383	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	17157	16.6829	ppb	# 85
48) 1,2-DCA	5.05	62	25850	10.5767	ppb	96
49) Benzene	5.01	78	55433	9.2036	ppb	96
50) TCE	5.90	130	18196	9.4679	ppb	# 79

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

Data File : M:\LOKI\DATA\191023\1028L22.D
 Acq On : 28 Oct 19 20:08
 Sample : 191028B LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83152	131.5682	ppb	92
52) 1,2-Dichloropropane	6.17	63	13562	8.8679	ppb	96
53) Bromodichloromethane	6.54	83	25083	10.4149	ppb	96
54) Methyl Cyclohexane	6.13	83	17946	11.3031	ppb	89
55) Dibromomethane	6.30	93	10936	9.1996	ppb	98
57) MIBK (methyl isobutyl ket	7.32	43	8356	10.3236	ppb	92
58) 1-Bromo-2-chloroethane	6.87	63	18002	9.5091	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	21161	10.7813	ppb	94
60) Toluene	7.45	91	62946	10.9198	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	19889	11.6084	ppb	97
62) 1,1,2-TCA	7.93	83	12125	9.8542	ppb	81
63) 2-Hexanone	8.27	43	3592	11.8269	ppb	92
66) 1,2-EDB	8.45	107	15274	10.1638	ppb	85
67) Tetrachloroethene	8.07	166	23582	10.5081	ppb	97
68) 1-Chlorohexane	9.05	91	14304	10.4264	ppb	92
69) 1,1,1,2-Tetrachloroethane	9.13	131	21876	10.8584	ppb	98
70) m&p-Xylene	9.30	91	103735	21.2801	ppb	97
71) o-Xylene	9.73	106	24382	10.8666	ppb	100
72) Styrene	9.75	104	39776	10.0869	ppb	95
74) 1,3-Dichloropropane	8.11	76	22737	9.6789	ppb	94
75) Dibromochloromethane	8.35	129	21500	9.8114	ppb	90
76) Chlorobenzene	9.01	112	46627	9.7393	ppb	91
77) Ethylbenzene	9.17	91	67035	11.8793	ppb	94
78) Bromoform	9.91	173	17711	11.1411	ppb	82
80) Isopropylbenzene	10.14	105	38184	10.7311	ppb	95
81) 1,1,2,2-Tetrachloroethane	10.47	83	18878	8.4521	ppb	92
82) 1,2,3-Trichloropropane	10.50	110	7244	9.6455	ppb	97
83) t-1,4-Dichloro-2-Butene	10.54	53	2812	11.1729	ppb	95
84) Bromobenzene	10.43	156	22422	9.3321	ppb	96
85) n-Propylbenzene	10.59	91	69038	9.8775	ppb	95
86) 4-Ethyltoluene	10.72	105	59919	9.8680	ppb	97
87) 2-Chlorotoluene	10.65	91	27504	10.1402	ppb	83
88) 1,3,5-Trimethylbenzene	10.79	105	54447	9.4976	ppb	94
89) 4-Chlorotoluene	10.78	126	10441	10.0922	ppb	89
90) Tert-Butylbenzene	11.14	119	47695	10.6756	ppb	92
91) 1,2,4-Trimethylbenzene	11.19	105	52884	10.2174	ppb	97
92) Sec-Butylbenzene	11.37	105	65121	10.8279	ppb	99
93) p-Isopropyltoluene	11.54	119	60033	9.8882	ppb	91
94) Benzyl Chloride	11.71	91	15429	9.9662	ppb	93
95) 1,3-DCB	11.46	146	39397	10.1398	ppb	94
96) 1,4-DCB	11.56	146	42977	9.1637	ppb	96
97) n-Butylbenzene	11.98	91	41506	10.5758	ppb	89
98) 1,2-DCB	11.95	146	38303	9.8094	ppb	93
99) Hexachloroethane	12.23	201	16088	13.0988	ppb	83
100) 1,2-Dibromo-3-chloropropan	12.79	75	3386	11.5005	ppb #	91
101) 1,2,4-Trichlorobenzene	13.69	180	20924	16.3046	ppb	79
102) Hexachlorobutadiene	13.90	223	5536	15.9672	ppb #	81
103) Naphthalene	13.94	128	31668	16.8822	ppb	90
104) 1,2,3-Trichlorobenzene	14.20	182	10755	14.3671	ppb #	89

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

Quantitation Report

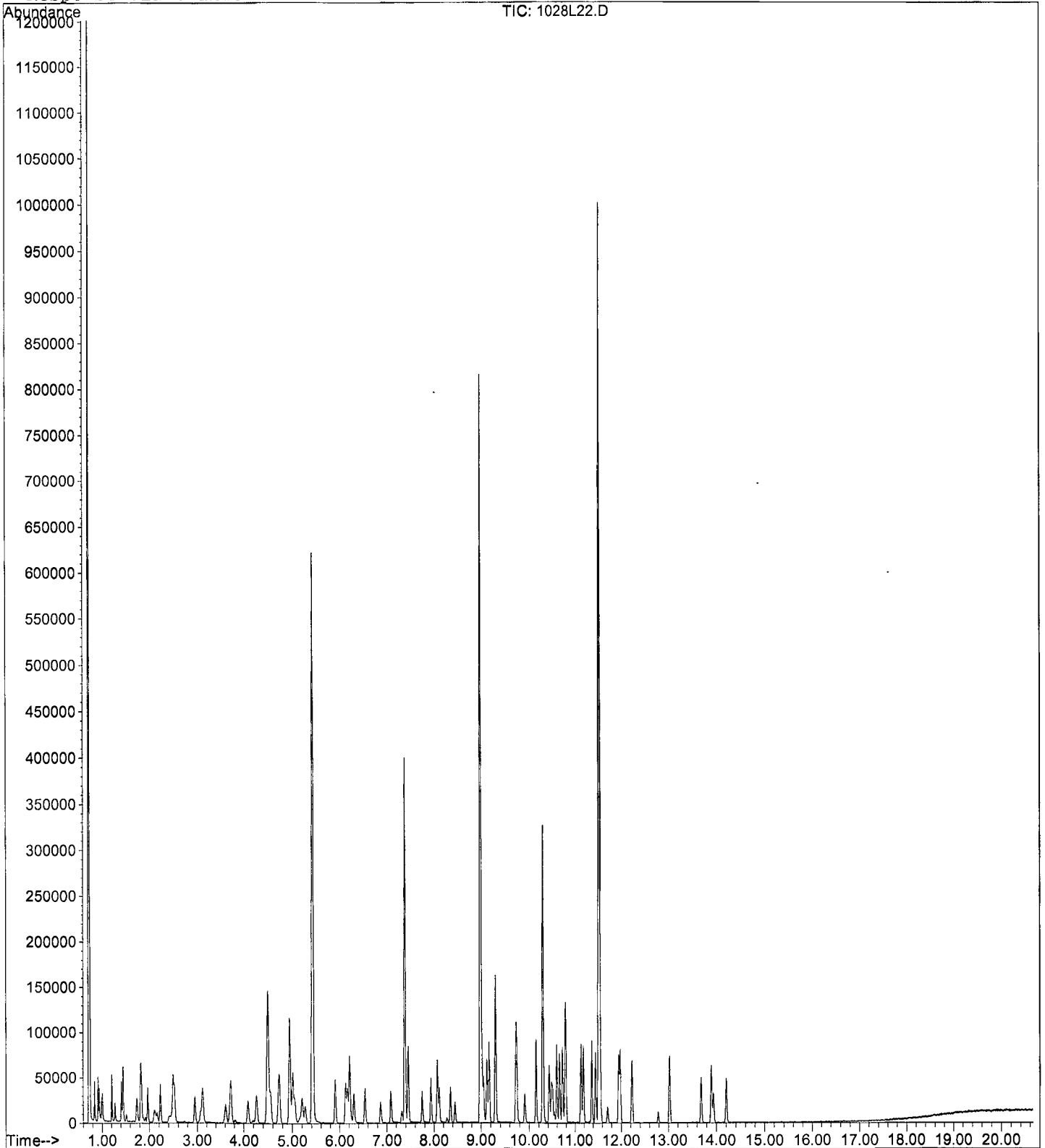
Data File : M:\LOKI\DATA\191023\1028L22.D
Acq On : 28 Oct 19 20:08
Sample : 191028B LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L04.D
 Acq On : 28 Oct 19 7:49
 Sample : 191028A LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 4
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	280576	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	275584	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156928	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86124	24.9312	ppb	0.00
Spiked Amount	25.000					Recovery = 99.724%
44) 1,2-DCA-D4(S)	4.94	65	101185	27.2615	ppb	0.00
Spiked Amount	25.000					Recovery = 109.044%
65) Toluene-D8(S)	7.38	98	279304	27.8538	ppb	0.00
Spiked Amount	25.000					Recovery = 111.416%
73) 4-Bromofluorobenzene(S)	10.29	95	102728	28.9233	ppb	0.00
Spiked Amount	25.000					Recovery = 115.692%
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	6435	10.0560	ppb	Qvalue # 68
4) Freon 114	0.91	85	7524	5.3217	ppb	100
5) Chloromethane	0.94	50	12626	6.4853	ppb	95
6) Vinyl chloride	1.01	62	12474	6.0435	ppb	97
8) Bromomethane	1.21	94	13299	5.1751	ppb	98
9) Chloroethane	1.27	64	8034	4.8511	ppb	95
10) Dichlorofluoromethane	1.41	67	21653	5.4511	ppb	92
11) Trichlorofluoromethane	1.45	103	19181	8.1084	ppb	98
13) Acrolein	1.74	56	14243	68.9327	ppb	# 81
14) Acetone	1.88	43	4318	3.8429	ppb	96
15) Freon-113	1.83	101	11371	6.1134	ppb	92
16) 1,1-DCE	1.81	96	10270	5.9819	ppb	97
17) t-Butanol	2.43	59	11034	62.0638	ppb	# 63
19) Acetonitrile	2.11	41	17469	55.3278	ppb	91
20) Methyl Acetate	2.16	43	6805	4.1678	ppb	93
21) Iodomethane	1.92	142	3775	4.0674	ppb	97
22) Acrylonitrile	2.47	53	4152	3.4929	ppb	89
23) Methylene chloride	2.23	84	14238	6.3538	ppb	97
24) Carbon disulfide	1.97	76	15209	4.1098	ppb	98
25) Methyl t-butyl ether (MtBE)	2.52	73	31484	7.5817	ppb	93
26) Trans-1,2-DCE	2.49	96	11807	6.0032	ppb	96
27) Diisopropyl Ether	3.11	45	30106	7.8925	ppb	# 84
29) 1,1-DCA	2.95	63	22221	7.4750	ppb	# 84
30) Vinyl Acetate	3.11	45	30106	7.8925	ppb	# 84
31) Ethyl tert Butyl Ether	3.60	59	16708	12.2650	ppb	# 88
32) MEK (2-Butanone)	3.81	43	1321	8.0009	ppb	# 73
33) Cis-1,2-DCE	3.72	96	13626	8.3609	ppb	96
34) 2,2-Dichloropropane	3.71	77	19347	8.9378	ppb	93
37) Chloroform	4.26	83	27921	8.9309	ppb	88
38) Bromochloromethane	4.08	128	8822	8.4709	ppb	81
40) 1,1,1-TCA	4.48	97	26604	9.9134	ppb	100
41) Cyclohexane	4.55	41	6269	6.6341	ppb	# 70
42) 1,1-Dichloropropene	4.74	75	14315	8.9339	ppb	90
43) 2,2,4-Trimethylpentane	5.20	57	20441	7.7534	ppb	90
45) Carbon Tetrachloride	4.72	117	24504	10.3119	ppb	95
46) Tert Amyl Methyl Ether	5.27	73	13424	13.9969	ppb	# 83
48) 1,2-DCA	5.05	62	22869	10.0336	ppb	# 91
49) Benzene	5.01	78	46580	8.2929	ppb	95
50) TCE	5.90	130	17372	9.6928	ppb	95

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

Data File : M:\LOKI\DATA\191023\1028L04.D
 Acq On : 28 Oct 19 7:49
 Sample : 191028A LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 4
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	57715	97.9234	ppb	96
52) 1,2-Dichloropropane	6.17	63	12595	8.8311	ppb	96
53) Bromodichloromethane	6.54	83	24579	10.9436	ppb #	94
54) Methyl Cyclohexane	6.12	83	12765	8.6213	ppb	97
55) Dibromomethane	6.30	93	8921	8.0472	ppb	92
57) MIBK (methyl isobutyl ket	7.31	43	7754	10.2722	ppb #	79
58) 1-Bromo-2-chloroethane	6.87	63	16135	9.1392	ppb	99
59) Cis-1,3-Dichloropropene	7.08	75	18066	9.8700	ppb	89
60) Toluene	7.45	91	57125	10.6265	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	18400	11.5158	ppb	96
62) 1,1,2-TCA	7.93	83	11531	10.0491	ppb	93
63) 2-Hexanone	8.27	43	2460	8.9269	ppb #	80
66) 1,2-EDB	8.45	107	13144	9.2258	ppb #	98
67) Tetrachloroethene	8.07	166	20704	9.7313	ppb	98
68) 1-Chlorohexane	9.05	91	12893	9.9130	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.12	131	19388	10.0882	ppb	92
70) m&p-Xylene	9.30	91	89745	19.6099	ppb	96
71) o-Xylene	9.73	106	22469	10.5628	ppb	99
72) Styrene	9.75	104	36572	9.8291	ppb	96
74) 1,3-Dichloropropane	8.11	76	20630	9.2633	ppb	96
75) Dibromochloromethane	8.35	129	20224	9.7349	ppb	91
76) Chlorobenzene	9.01	112	42445	9.3517	ppb	92
77) Ethylbenzene	9.17	91	60982	11.3989	ppb	89
78) Bromoform	9.91	173	16678	11.0663	ppb	78
80) Isopropylbenzene	10.14	105	33136	10.1404	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	16570	7.9560	ppb	97
82) 1,2,3-Trichloropropane	10.50	110	6191	8.9498	ppb	96
83) t-1,4-Dichloro-2-Butene	10.54	53	2097	9.0728	ppb	88
84) Bromobenzene	10.43	156	21098	9.5617	ppb	92
85) n-Propylbenzene	10.59	91	64427	10.0258	ppb	95
86) 4-Ethyltoluene	10.72	105	51227	9.2609	ppb	98
87) 2-Chlorotoluene	10.65	91	24524	9.8454	ppb	86
88) 1,3,5-Trimethylbenzene	10.79	105	51431	9.7491	ppb	98
89) 4-Chlorotoluene	10.78	126	9620	10.1253	ppb	91
90) Tert-Butylbenzene	11.14	119	50921	12.4110	ppb	99
91) 1,2,4-Trimethylbenzene	11.19	105	49382	10.3669	ppb	96
92) Sec-Butylbenzene	11.37	105	59738	10.8159	ppb	98
93) p-Isopropyltoluene	11.54	119	58026	10.4073	ppb	94
94) Benzyl Chloride	11.71	91	13551	9.5314	ppb #	89
95) 1,3-DCB	11.46	146	36476	10.2227	ppb	90
96) 1,4-DCB	11.56	146	39337	9.1333	ppb	97
97) n-Butylbenzene	11.98	91	39328	10.9117	ppb	97
98) 1,2-DCB	11.95	146	36930	10.2987	ppb	95
99) Hexachloroethane	12.23	201	14960	13.2521	ppb #	81
100) 1,2-Dibromo-3-chloropropan	12.79	75	2796	10.3660	ppb	97
101) 1,2,4-Trichlorobenzene	13.69	180	18507	15.7733	ppb	93
102) Hexachlorobutadiene	13.89	223	4887	15.3942	ppb	81
103) Naphthalene	13.94	128	25137	14.9424	ppb	95
104) 1,2,3-Trichlorobenzene	14.20	182	9681	14.1371	ppb #	95

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

Quantitation Report

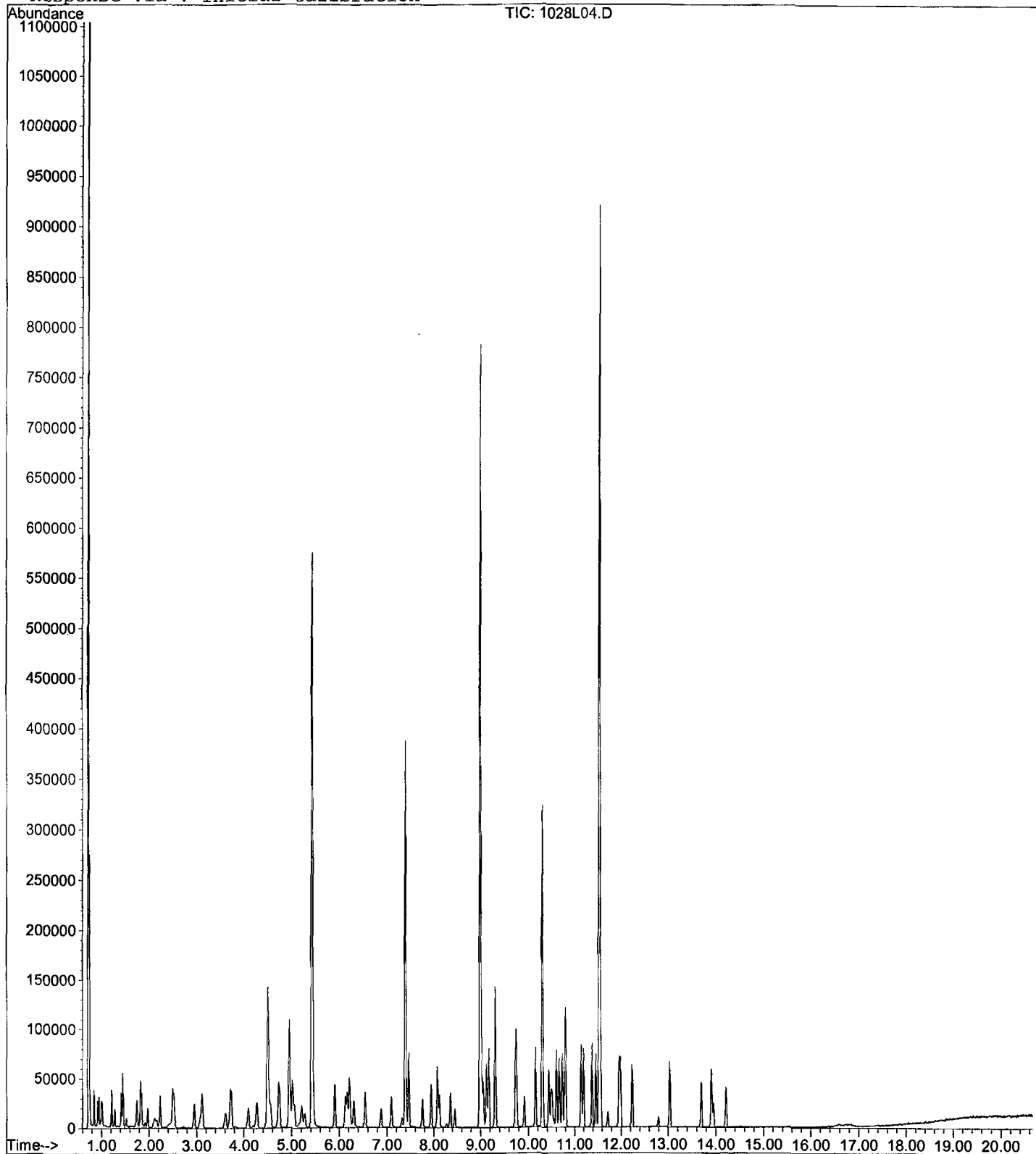
Data File : M:\LOKI\DATA\191023\1028L04.D
Acq On : 28 Oct 19 7:49
Sample : 191028A LCSD 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 4
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L23.D
 Acq On : 28 Oct 19 20:36
 Sample : 191028B LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	289664	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	288256	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	163456	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	86891	24.3641	ppb	0.00
Spiked Amount				25.000		
					Recovery = 97.456%	
44) 1,2-DCA-D4(S)	4.95	65	103456	26.9988	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.996%	
65) Toluene-D8(S)	7.38	98	281257	26.8155	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.264%	
73) 4-Bromofluorobenzene(S)	10.28	95	105468	28.3893	ppb	0.00
Spiked Amount				25.000		
					Recovery = 113.556%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	6882	10.4149	ppb	98
4) Freon 114	0.91	85	14290	11.0601	ppb	96
5) Chloromethane	0.94	50	14945	7.5204	ppb	98
6) Vinyl chloride	1.01	62	15641	7.3401	ppb	91
8) Bromomethane	1.21	94	16847	6.4480	ppb	96
9) Chloroethane	1.27	64	8539	5.0010	ppb	97
10) Dichlorofluoromethane	1.41	67	26751	6.5233	ppb	97
11) Trichlorofluoromethane	1.45	103	22717	9.3019	ppb	84
13) Acrolein	1.74	56	14405	67.5295	ppb	# 85
14) Acetone	1.88	43	5762	6.3308	ppb	92
15) Freon-113	1.83	101	14693	7.6515	ppb	93
16) 1,1-DCE	1.82	96	14465	8.5662	ppb	86
17) t-Butanol	2.42	59	18493	100.0173	ppb	97
19) Acetonitrile	2.11	41	22004	67.5045	ppb	95
20) Methyl Acetate	2.16	43	10042	6.2463	ppb	95
21) Iodomethane	1.92	142	5214	4.8631	ppb	95
22) Acrylonitrile	2.47	53	5758	5.5994	ppb	# 80
23) Methylene chloride	2.23	84	17552	7.9413	ppb	93
24) Carbon disulfide	1.97	76	29632	8.0465	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	37943	8.8504	ppb	92
26) Trans-1,2-DCE	2.49	96	15959	8.1423	ppb	94
27) Diisopropyl Ether	3.11	45	34585	8.7823	ppb	93
29) 1,1-DCA	2.95	63	26090	8.5011	ppb	91
30) Vinyl Acetate	3.11	45	34585	8.7823	ppb	93
31) Ethyl tert Butyl Ether	3.61	59	20201	14.3639	ppb	93
32) MEK (2-Butanone)	3.81	43	1678	9.6829	ppb	96
33) Cis-1,2-DCE	3.72	96	15654	9.3697	ppb	93
34) 2,2-Dichloropropane	3.71	77	21849	9.7770	ppb	# 91
37) Chloroform	4.27	83	30189	9.3534	ppb	98
38) Bromochloromethane	4.09	128	9736	9.0552	ppb	72
40) 1,1,1-TCA	4.48	97	30669	11.0696	ppb	92
41) Cyclohexane	4.55	41	8640	8.8262	ppb	# 63
42) 1,1-Dichloropropene	4.74	75	17268	10.4387	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	28592	10.5048	ppb	87
45) Carbon Tetrachloride	4.72	117	27108	11.0498	ppb	85
46) Tert Amyl Methyl Ether	5.27	73	17097	17.2673	ppb	94
48) 1,2-DCA	5.05	62	24149	10.2627	ppb	91
49) Benzene	5.01	78	56078	9.6707	ppb	95
50) TCE	5.90	130	18978	10.2566	ppb	93

(#) = qualifier out of range (m) = manual integration
 1028L23.D L1023W.M Thu Nov 21 08:13:22 2019

Data File : M:\LOKI\DATA\191023\1028L23.D
 Acq On : 28 Oct 19 20:36
 Sample : 191028B LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83666	137.5000	ppb	95
52) 1,2-Dichloropropane	6.17	63	14094	9.5721	ppb	97
53) Bromodichloromethane	6.54	83	24996	10.7801	ppb	93
54) Methyl Cyclohexane	6.12	83	16797	10.9885	ppb	94
55) Dibromomethane	6.30	93	10552	9.2198	ppb	88
57) MIBK (methyl isobutyl ket	7.32	43	8570	11.0006	ppb	# 92
58) 1-Bromo-2-chloroethane	6.87	63	18589	10.1988	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	20135	10.6552	ppb	93
60) Toluene	7.45	91	63418	11.4270	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	19738	11.9657	ppb	94
62) 1,1,2-TCA	7.93	83	11845	9.9989	ppb	87
63) 2-Hexanone	8.27	43	3574	12.1922	ppb	# 78
66) 1,2-EDB	8.44	107	14871	9.9791	ppb	# 95
67) Tetrachloroethene	8.07	166	23252	10.4485	ppb	94
68) 1-Chlorohexane	9.05	91	14418	10.5982	ppb	95
69) 1,1,1,2-Tetrachloroethane	9.12	131	20091	9.9855	ppb	91
70) m&p-Xylene	9.30	91	98985	20.5593	ppb	100
71) o-Xylene	9.72	106	24285	10.9147	ppb	96
72) Styrene	9.74	104	39844	10.1738	ppb	100
74) 1,3-Dichloropropane	8.11	76	22562	9.6854	ppb	97
75) Dibromochloromethane	8.35	129	20956	9.6438	ppb	94
76) Chlorobenzene	9.01	112	44063	9.2814	ppb	89
77) Ethylbenzene	9.17	91	65928	11.7817	ppb	93
78) Bromoform	9.91	173	17723	11.2427	ppb	93
80) Isopropylbenzene	10.14	105	36920	10.8472	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	18983	9.0270	ppb	99
82) 1,2,3-Trichloropropane	10.49	110	7273	10.1429	ppb	100
83) t-1,4-Dichloro-2-Butene	10.53	53	2757	11.4519	ppb	97
84) Bromobenzene	10.43	156	22049	9.5936	ppb	98
85) n-Propylbenzene	10.59	91	68168	10.1731	ppb	97
86) 4-Ethyltoluene	10.72	105	56013	9.6682	ppb	96
87) 2-Chlorotoluene	10.65	91	26424	10.1845	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	52310	9.5362	ppb	97
89) 4-Chlorotoluene	10.78	126	9611	9.7118	ppb	# 67
90) Tert-Butylbenzene	11.14	119	52408	12.2633	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	50399	10.1844	ppb	99
92) Sec-Butylbenzene	11.37	105	62567	10.8757	ppb	99
93) p-Isopropyltoluene	11.54	119	60858	10.4793	ppb	95
94) Benzyl Chloride	11.71	91	15090	10.1900	ppb	99
95) 1,3-DCB	11.46	146	39504	10.6291	ppb	91
96) 1,4-DCB	11.56	146	41908	9.3416	ppb	99
97) n-Butylbenzene	11.98	91	41142	10.9591	ppb	95
98) 1,2-DCB	11.95	146	38859	10.4038	ppb	90
99) Hexachloroethane	12.23	201	15327	13.0496	ppb	89
100) 1,2-Dibromo-3-chloropropan	12.79	75	3544	12.5603	ppb	97
101) 1,2,4-Trichlorobenzene	13.69	180	21503	17.3658	ppb	86
102) Hexachlorobutadiene	13.89	223	5870	17.5717	ppb	# 76
103) Naphthalene	13.94	128	32720	17.9985	ppb	90
104) 1,2,3-Trichlorobenzene	14.20	182	10769	14.9094	ppb	# 93

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

Quantitation Report

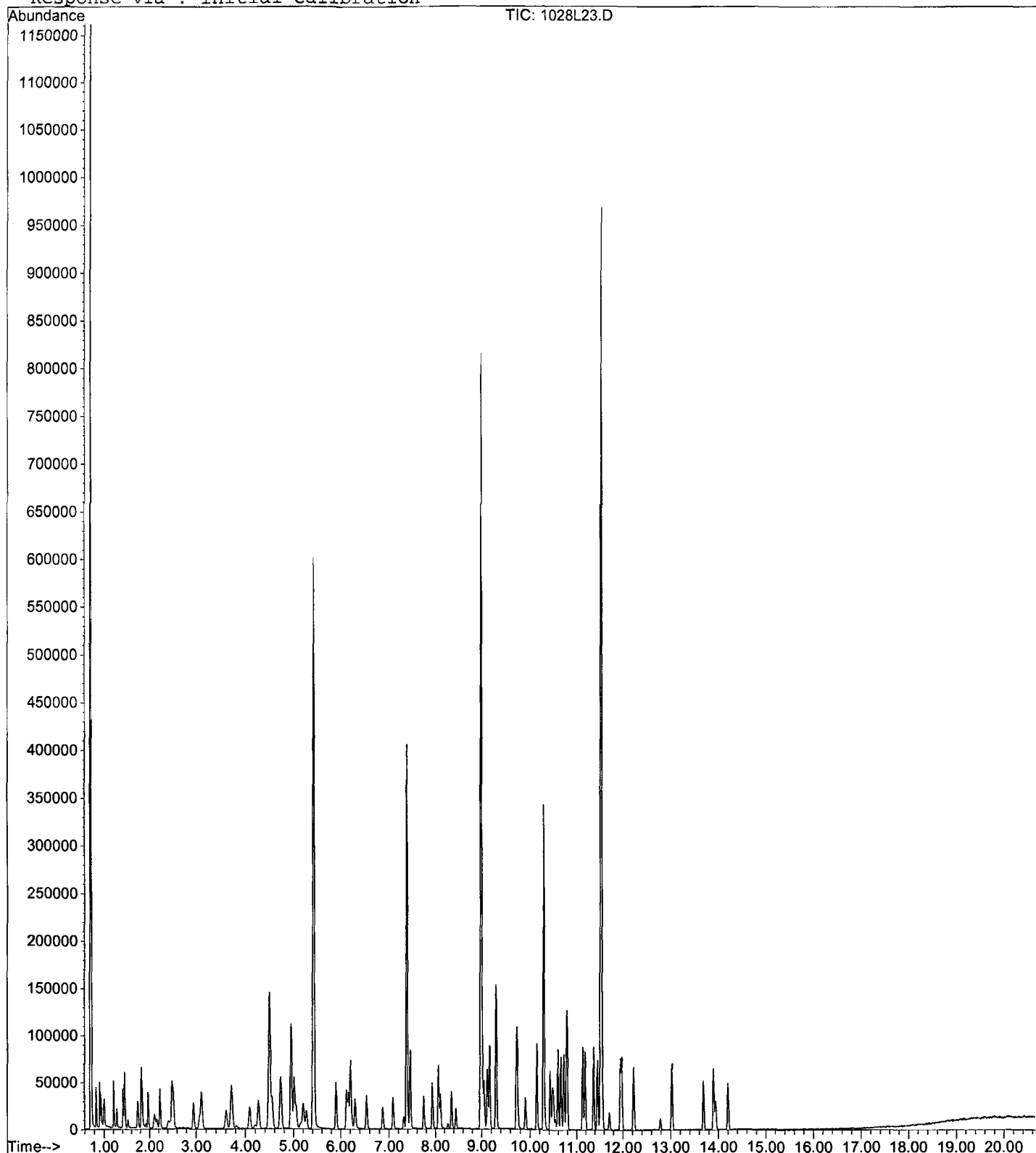
Data File : M:\LOKI\DATA\191023\1028L23.D
Acq On : 28 Oct 19 20:36
Sample : 191028B LCSD 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

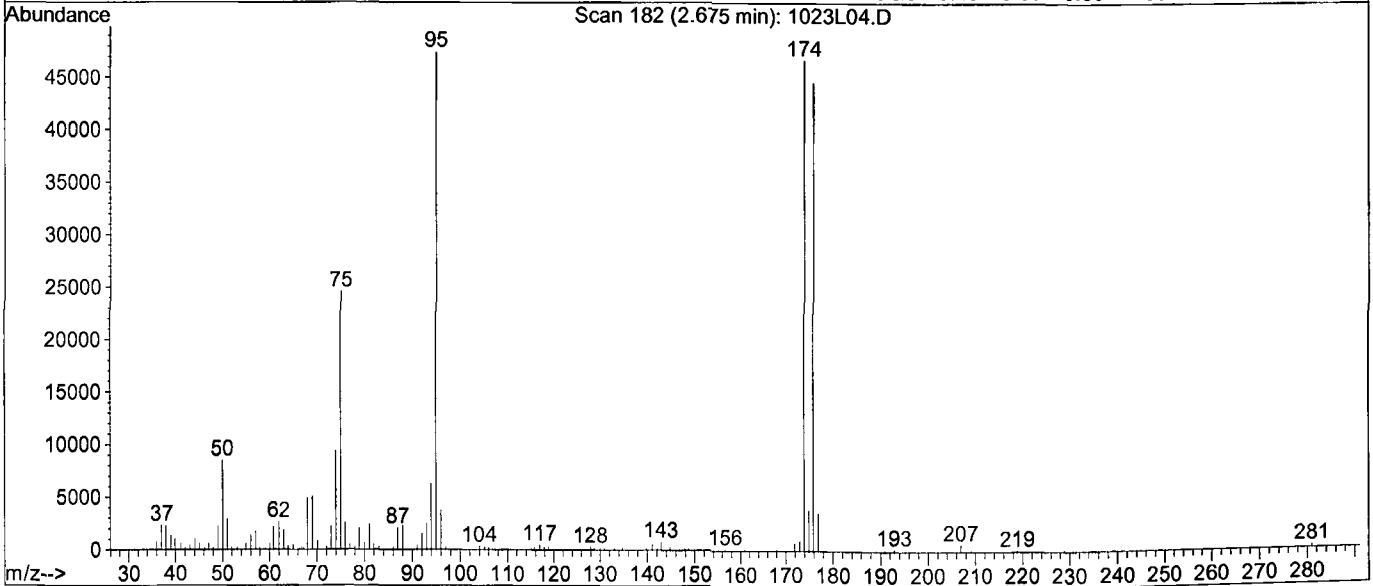
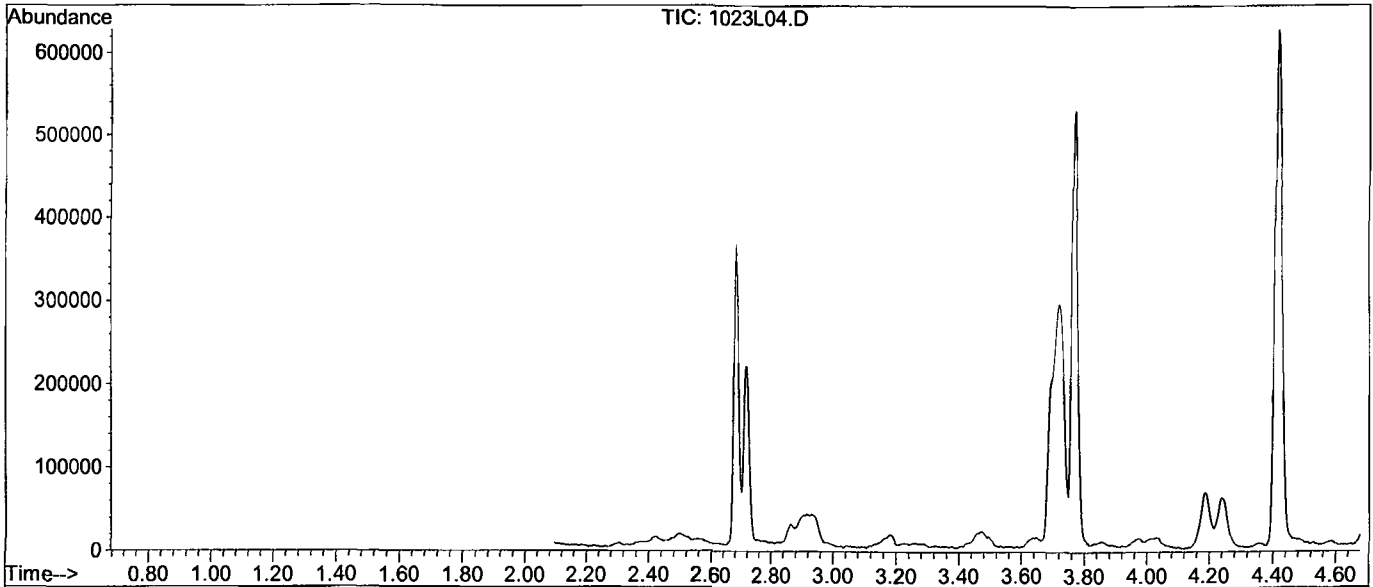
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L04.D
 Acq On : 23 Oct 19 17:01
 Sample : 25ug/L BFB STD 8/11/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



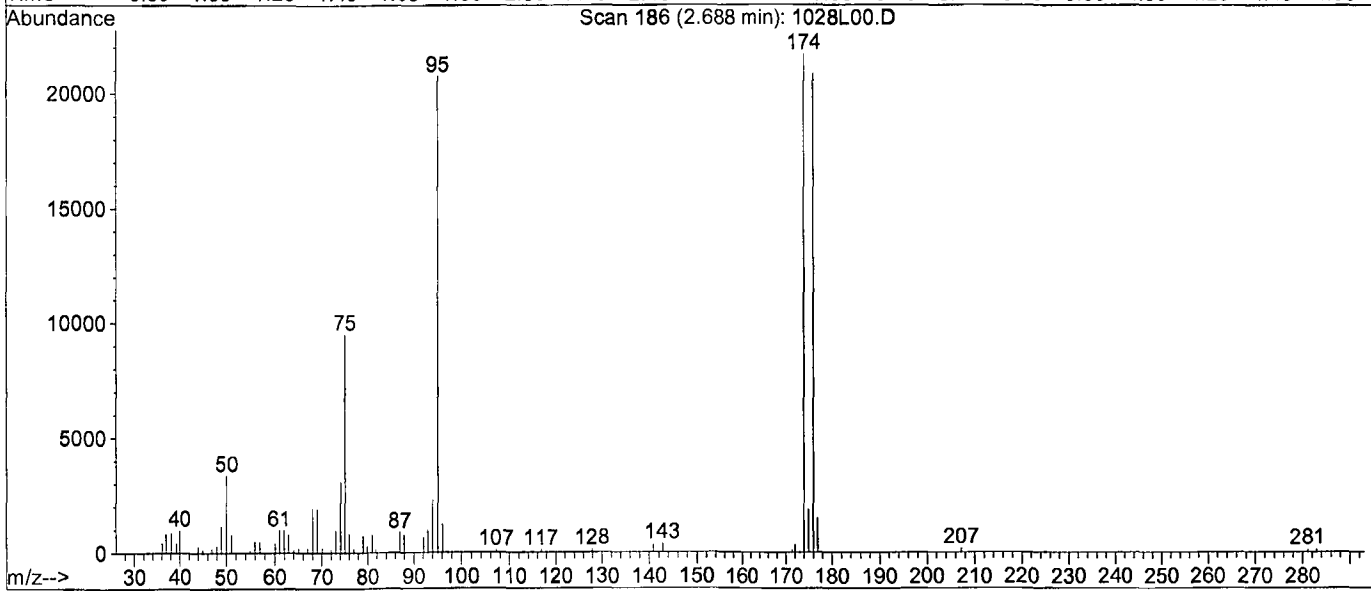
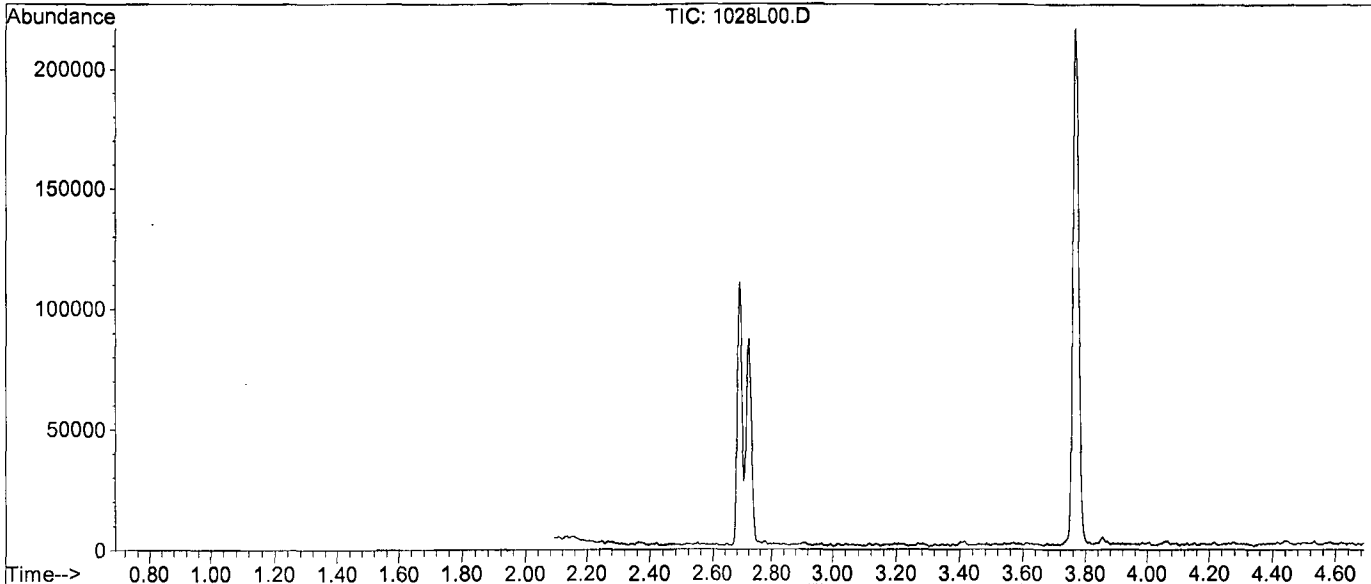
Spectrum Information: Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8472	PASS
75	95	30	60	51.6	24496	PASS
95	95	100	100	100.0	47432	PASS
96	95	5	9	7.8	3715	PASS
173	174	0.00	2	1.9	909	PASS
174	95	50	200	98.4	46696	PASS
175	174	5	9	8.2	3836	PASS
176	174	95	101	95.4	44536	PASS
177	176	5	9	7.9	3519	PASS

Data File : M:\LOKI\DATA\191023\1028L00.D
 Acq On : 28 Oct 19 6:01
 Sample : 25ug/L BFB STD 10/10/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



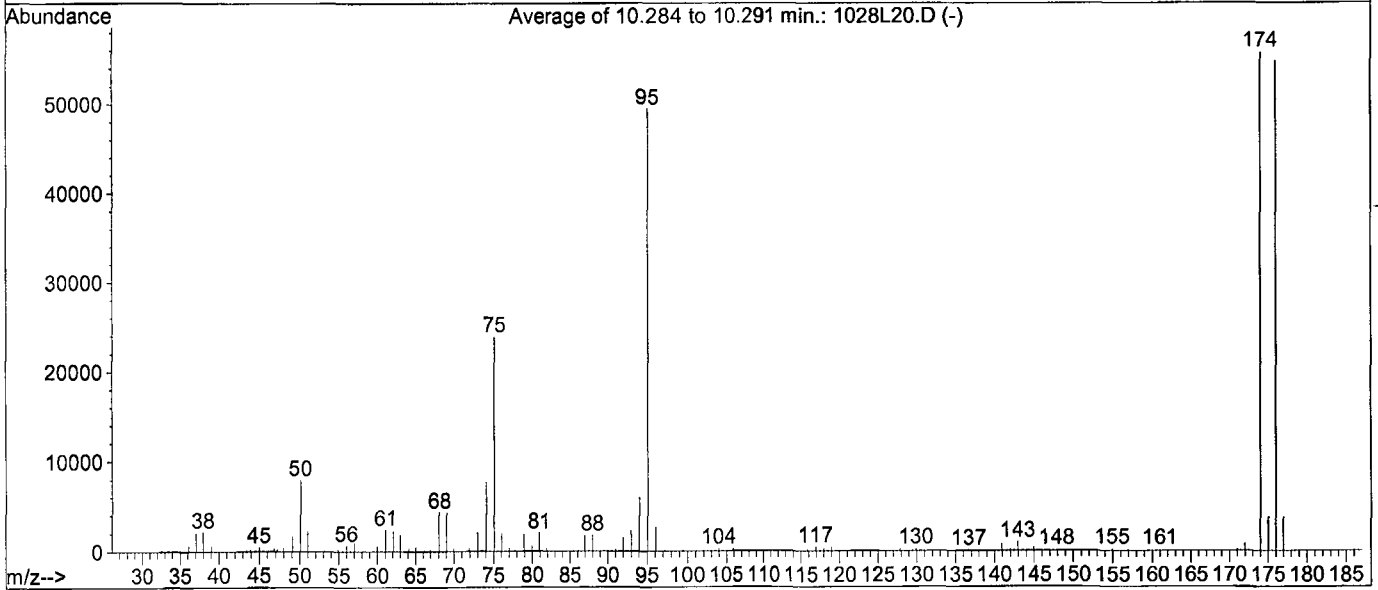
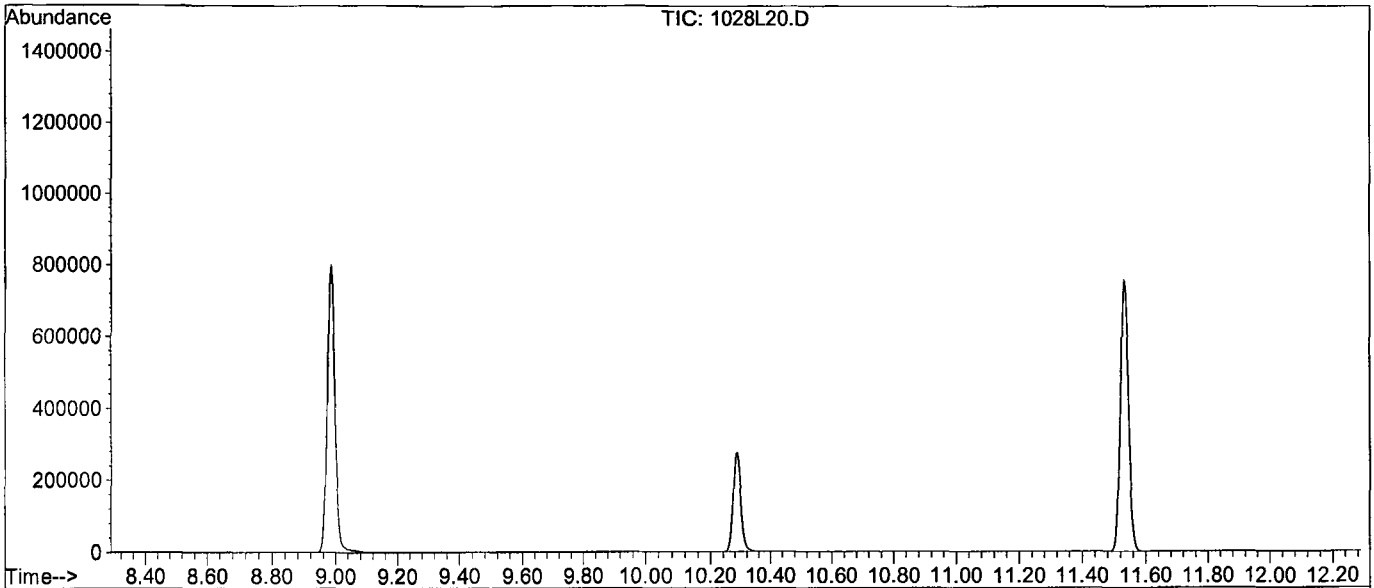
Spectrum Information: Scan 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	3360	PASS
75	95	30	60	45.8	9493	PASS
95	95	100	100	100.0	20736	PASS
96	95	5	9	5.8	1212	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	104.6	21680	PASS
175	174	5	9	8.6	1868	PASS
176	174	95	101	96.1	20824	PASS
177	176	5	9	7.2	1506	PASS

Data File : M:\LOKI\DATA\191023\1028L20.D
 Acq On : 28 Oct 19 19:11
 Sample : 25ug/L BFB STD 10/10/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



AutoFind: Scans 3015, 3016, 3017; Background Corrected with Scan 3001

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	7904	PASS
75	95	30	60	48.3	23893	PASS
95	95	100	100	100.0	49480	PASS
96	95	5	9	5.3	2646	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	112.8	55795	PASS
175	174	5	9	6.7	3722	PASS
176	174	95	101	98.2	54776	PASS
177	176	5	9	6.7	3686	PASS

Injection Log

Directory: M:\LOKI\DATA\191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1023L04.D	1	25ug/L BFB STD 8/11/19	IS&S:10/7/19, 10/23/19	23 Oct 19 17:01
6	1023L10.D	1	0.3ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:30
7	1023L11.D	1	0.5ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:59
8	1023L12.D	1	1.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:27
9	1023L13.D	1	2.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:56
10	1023L14.D	1	5.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:24
11	1023L15.D	1	10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:53
12	1023L16.D	1	20ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:21
13	1023L17.D	1	40ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:50
14	1023L18.D	1	100ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 23:18
16	1023L20.D	1	(SS)10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	24 Oct 19 00:15
1	1028L00.D	1	25ug/L BFB STD 10/10/19	IS&S:10/7/19, 10/23/19	28 Oct 19 6:01
3	1028L03.D	1	191028A CCV/LCS 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 7:21
4	1028L04.D	1	191028A LCSD 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 7:49
8	1028L08.D	1	191028A BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 12:59
10	1028L10.D	1	BA01653W01	IS&S:10/7/19, 10/23/19	28 Oct 19 14:26
11	1028L11.D	1	BA01657W01	IS&S:10/7/19, 10/23/19	28 Oct 19 14:54
12	1028L12.D	1	BA01650W01	IS&S:10/7/19, 10/23/19	28 Oct 19 15:23
13	1028L13.D	1	BA01651W01	IS&S:10/7/19, 10/23/19	28 Oct 19 15:51
14	1028L14.D	1	BA01652W01	IS&S:10/7/19, 10/23/19	28 Oct 19 16:20
15	1028L15.D	1	BA01654W01	IS&S:10/7/19, 10/23/19	28 Oct 19 16:48
16	1028L16.D	1	BA01655W01	IS&S:10/7/19, 10/23/19	28 Oct 19 17:17
17	1028L17.D	1	BA01656W01	IS&S:10/7/19, 10/23/19	28 Oct 19 17:45
18	1028L18.D	1	Ending CCV 10ug/L 10/28/19	IS&S:10/7/19, 10/23/19	28 Oct 19 18:14
20	1028L20.D	1	25ug/L BFB STD 10/10/19	IS&S:10/7/19, 10/23/19	28 Oct 19 19:11
21	1028L21.D	1	191028B CCV 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 19:39
22	1028L22.D	1	191028B LCS 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 20:08
23	1028L23.D	1	191028B LCSD 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 20:36
27	1028L27.D	1	191028B BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 22:30
32	1028L32.D	1	BA01658W01	IS&S:10/7/19, 10/23/19	29 Oct 19 00:52
33	1028L33.D	1	BA01660W01	IS&S:10/7/19, 10/23/19	29 Oct 19 1:21
34	1028L34.D	1	BA01662W01	IS&S:10/7/19, 10/23/19	29 Oct 19 1:49
35	1028L35.D	1	BA01664W01	IS&S:10/7/19, 10/23/19	29 Oct 19 2:17
36	1028L36.D	1	BA01661W01	IS&S:10/7/19, 10/23/19	29 Oct 19 2:46
37	1028L37.D	1	BA01663W01	IS&S:10/7/19, 10/23/19	29 Oct 19 3:14
38	1028L38.D	1	BA01659W01	IS&S:10/7/19, 10/23/19	29 Oct 19 3:43
45	1028L45.D	1	Ending CCV 10ug/L 10/28/19	IS&S:10/7/19, 10/23/19	29 Oct 19 7:01

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19
Instrument: Loki

Initials: DP

1023L10.D 1023L11.D 1023L12.D 1023L13.D 1023L14.D 1023L15.D 1023L16.D 1023L17.D 1023L18.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768		0.31	7.4	S			
3	S 1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961		0.33	8.5	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617		0.91	9.0	S			
6	S 4-Bromofluorobenzene(S)	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
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34																	
35																	

Data File : M:\LOKI\DATA\191023\1023L10.D Vial: 6
 Acq On : 23 Oct 19 19:30 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	199488	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	15394	5.53	ppb	0.00
Spiked Amount	25.000		Recovery	= 22.132%		
3) 1,2-DCA-D4(S)	4.95	65	17619	5.89	ppb	0.00
Spiked Amount	25.000		Recovery	= 23.576%		
5) Toluene-D8(S)	7.38	98	39179	5.40	ppb	0.00
Spiked Amount	25.000		Recovery	= 21.592%		
6) 4-Bromofluorobenzene(S)	10.28	95	12477	4.85	ppb	0.00
Spiked Amount	25.000		Recovery	= 19.412%		

Target Compounds Qvalue

Quantitation Report

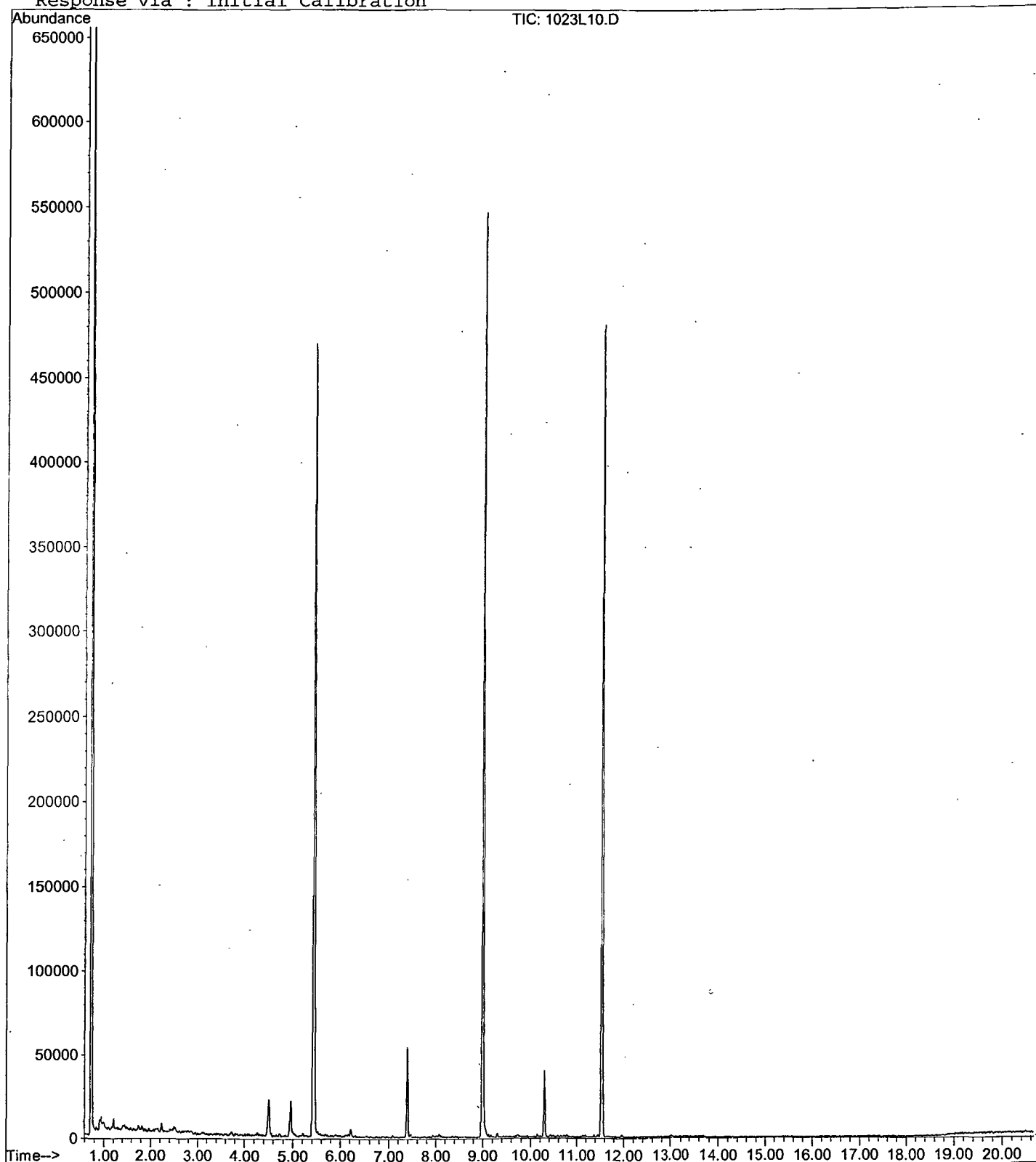
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L11.D Vial: 7
 Acq On : 23 Oct 19 19:59 Operator:
 Sample : 0.5ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	211584	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	15575	5.62	ppb	0.00
Spiked Amount						
			Recovery	=		22.488%
3) 1,2-DCA-D4(S)	4.95	65	16291	5.47	ppb	0.00
Spiked Amount						
			Recovery	=		21.892%
5) Toluene-D8(S)	7.38	98	37595	4.88	ppb	0.00
Spiked Amount						
			Recovery	=		19.532%
6) 4-Bromofluorobenzene(S)	10.29	95	13224	4.85	ppb	0.00
Spiked Amount						
			Recovery	=		19.396%

Target Compounds Qvalue

Quantitation Report

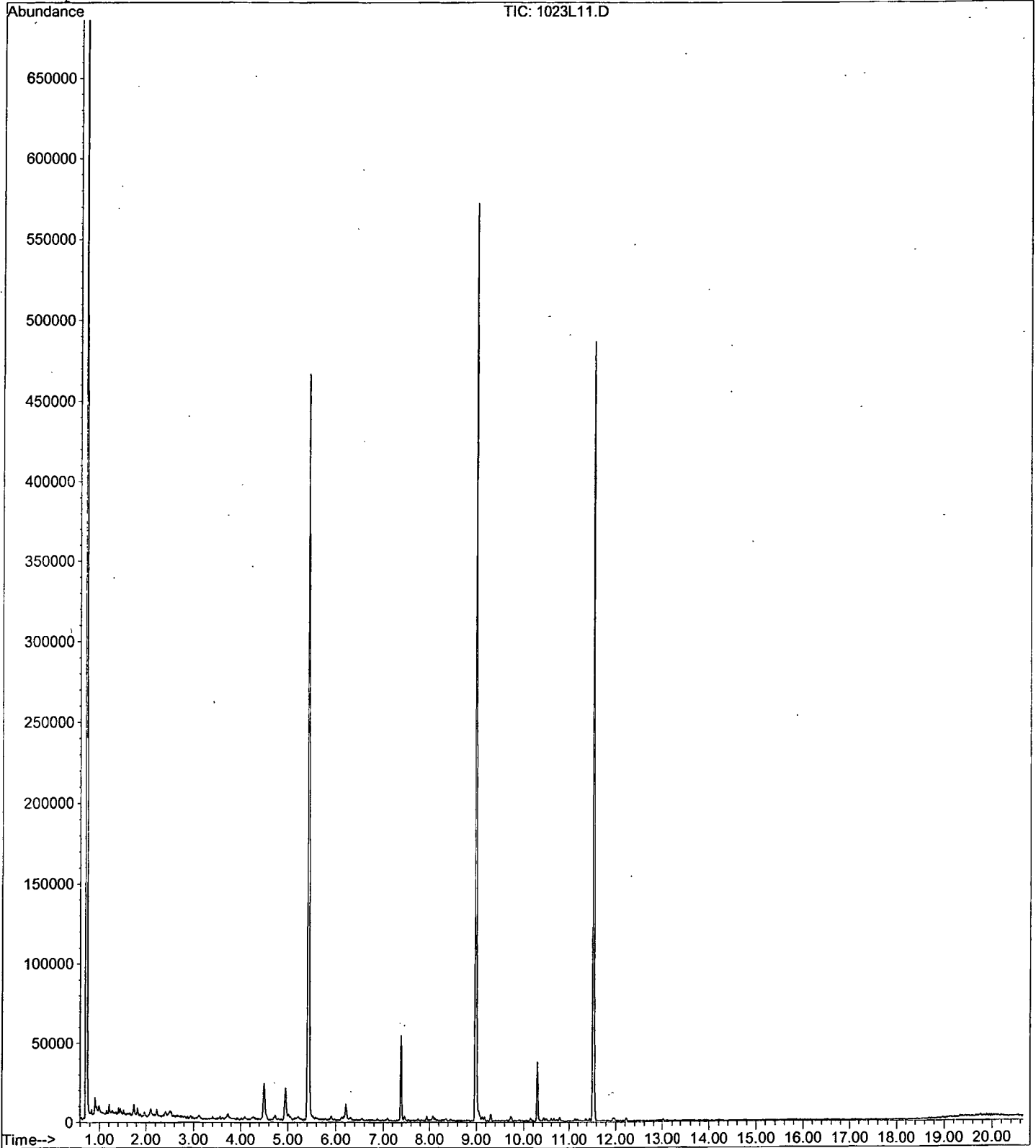
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	208192	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	27680	9.79	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		39.172%
3) 1,2-DCA-D4(S)	4.95	65	28867	9.51	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		38.020%
5) Toluene-D8(S)	7.38	98	64087	8.46	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		33.840%
6) 4-Bromofluorobenzene(S)	10.28	95	21968	8.19	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		32.748%

Target Compounds

Qvalue

Quantitation Report

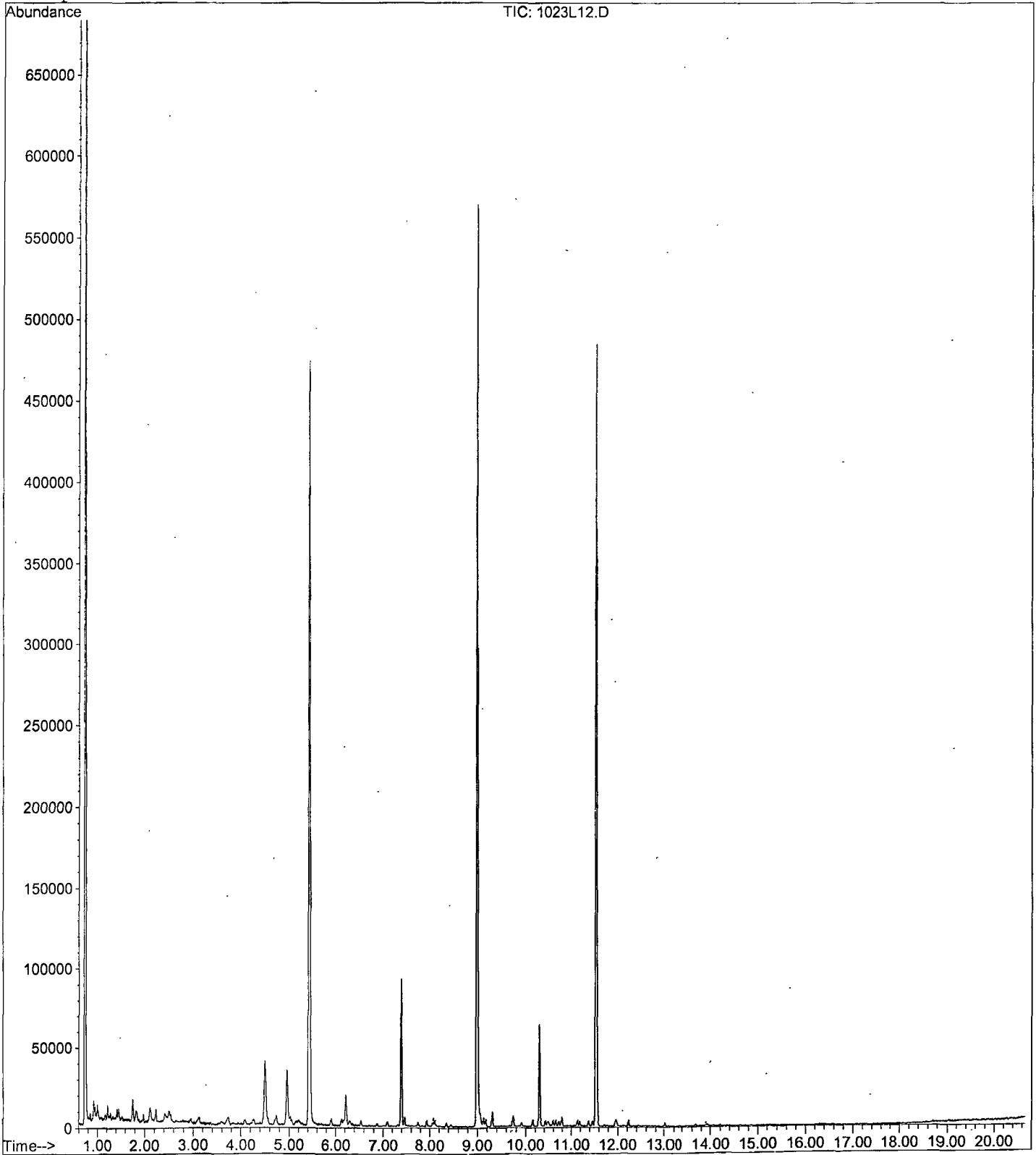
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	202496	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	25895	9.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.176%	
3) 1,2-DCA-D4(S)	4.95	65	28773	9.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.444%	
5) Toluene-D8(S)	7.38	98	64548	8.76	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.040%	
6) 4-Bromofluorobenzene(S)	10.29	95	21984	8.42	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.696%	

Target Compounds

Qvalue

Quantitation Report

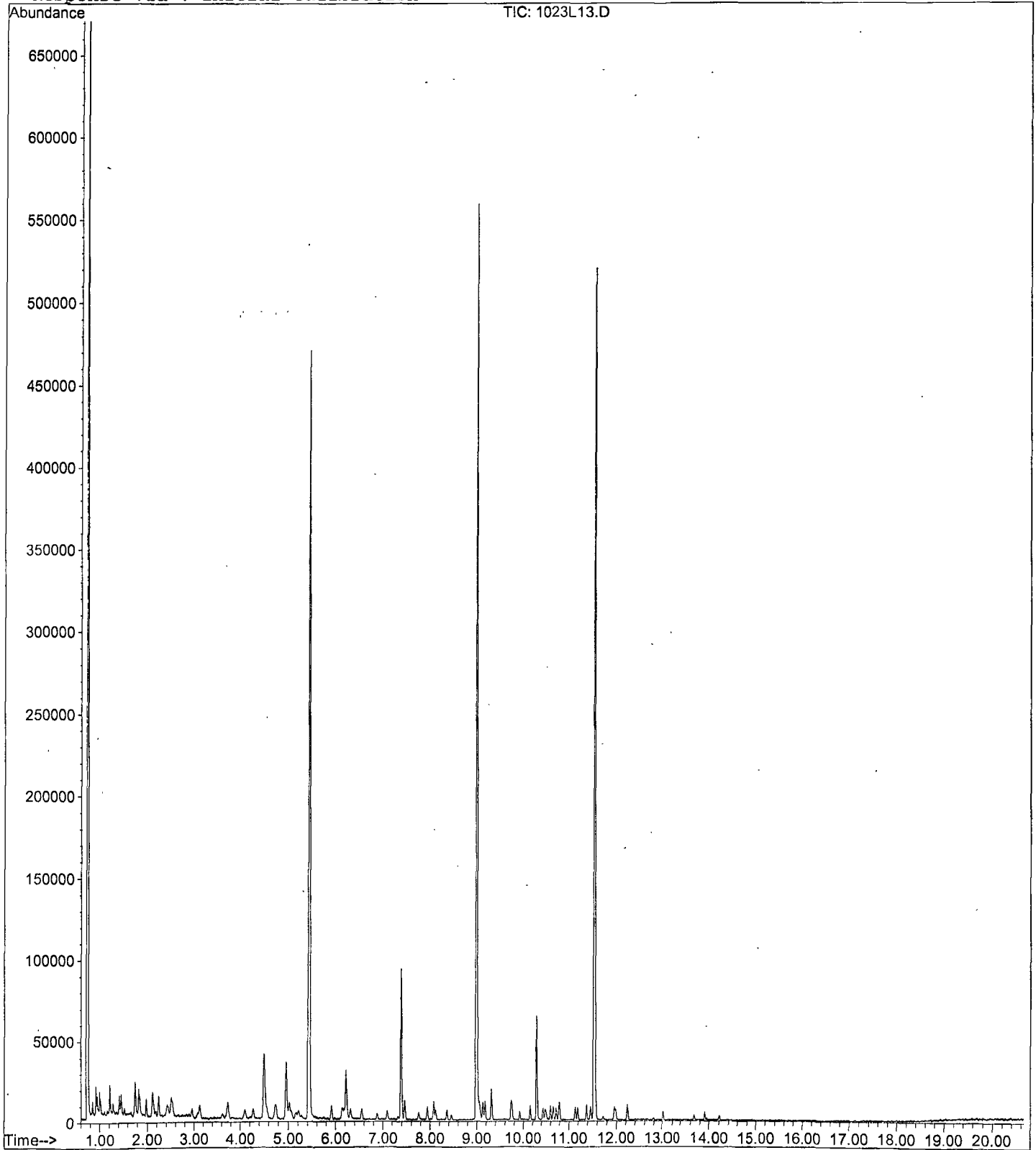
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D Vial: 10
 Acq On : 23 Oct 19 21:24 Operator:
 Sample : 5.0ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	215872	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	73331	25.57	ppb	0.00
Spiked Amount	25.000		Recovery	= 102.268%		
3) 1,2-DCA-D4(S)	4.95	65	77274	25.07	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.300%		
5) Toluene-D8(S)	7.38	98	196494	25.02	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.064%		
6) 4-Bromofluorobenzene(S)	10.29	95	66904	24.05	ppb	0.00
Spiked Amount	25.000		Recovery	= 96.188%		

Target Compounds Qvalue

Quantitation Report

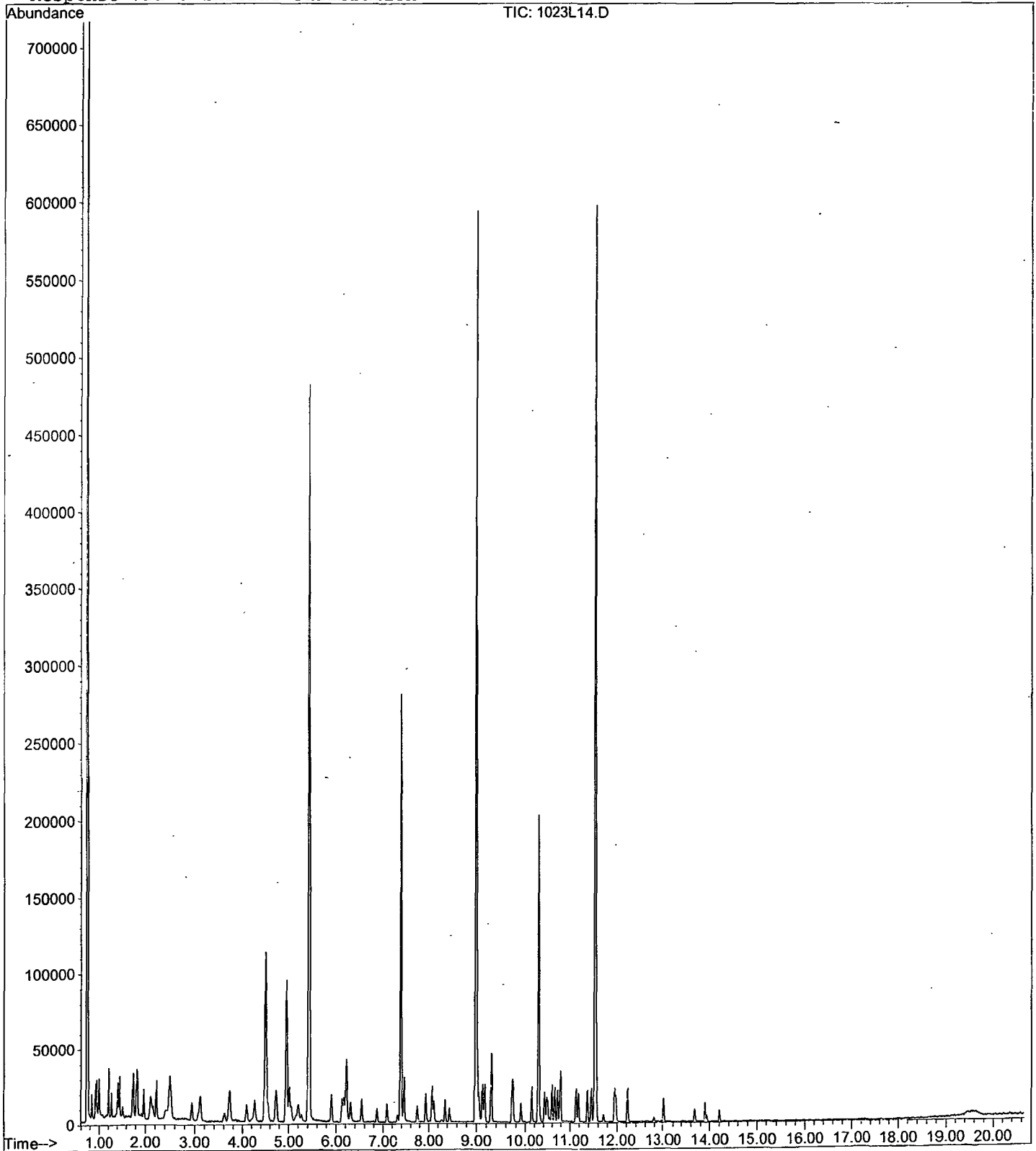
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	224832	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	73614	24.60	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	98.392%
3) 1,2-DCA-D4(S)	4.95	65	77647	24.15	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	96.592%
5) Toluene-D8(S)	7.38	98	203676	24.90	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	99.588%
6) 4-Bromofluorobenzene(S)	10.29	95	73416	25.34	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.344%

Target Compounds

Qvalue

Quantitation Report

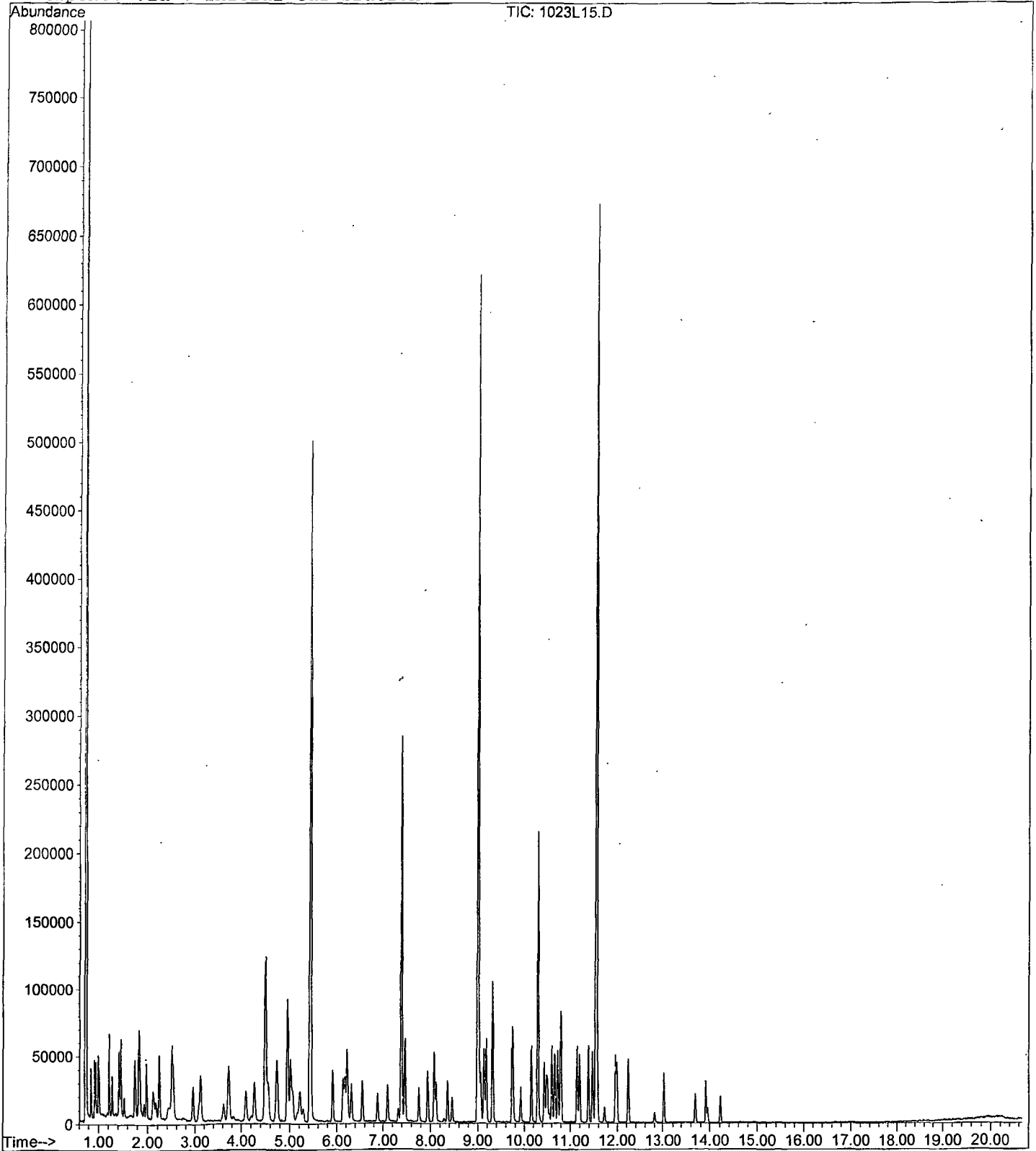
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D Vial: 12
 Acq On : 23 Oct 19 22:21 Operator:
 Sample : 20ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	234944	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	152485	48.86	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.420%	
3) 1,2-DCA-D4(S)	4.95	65	165297	49.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	197.164%	
5) Toluene-D8(S)	7.38	98	454363	53.15	ppb	0.00
Spiked Amount	25.000		Recovery	=	212.600%	
6) 4-Bromofluorobenzene(S)	10.29	95	166667	55.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	220.168%	

Target Compounds Qvalue

Quantitation Report

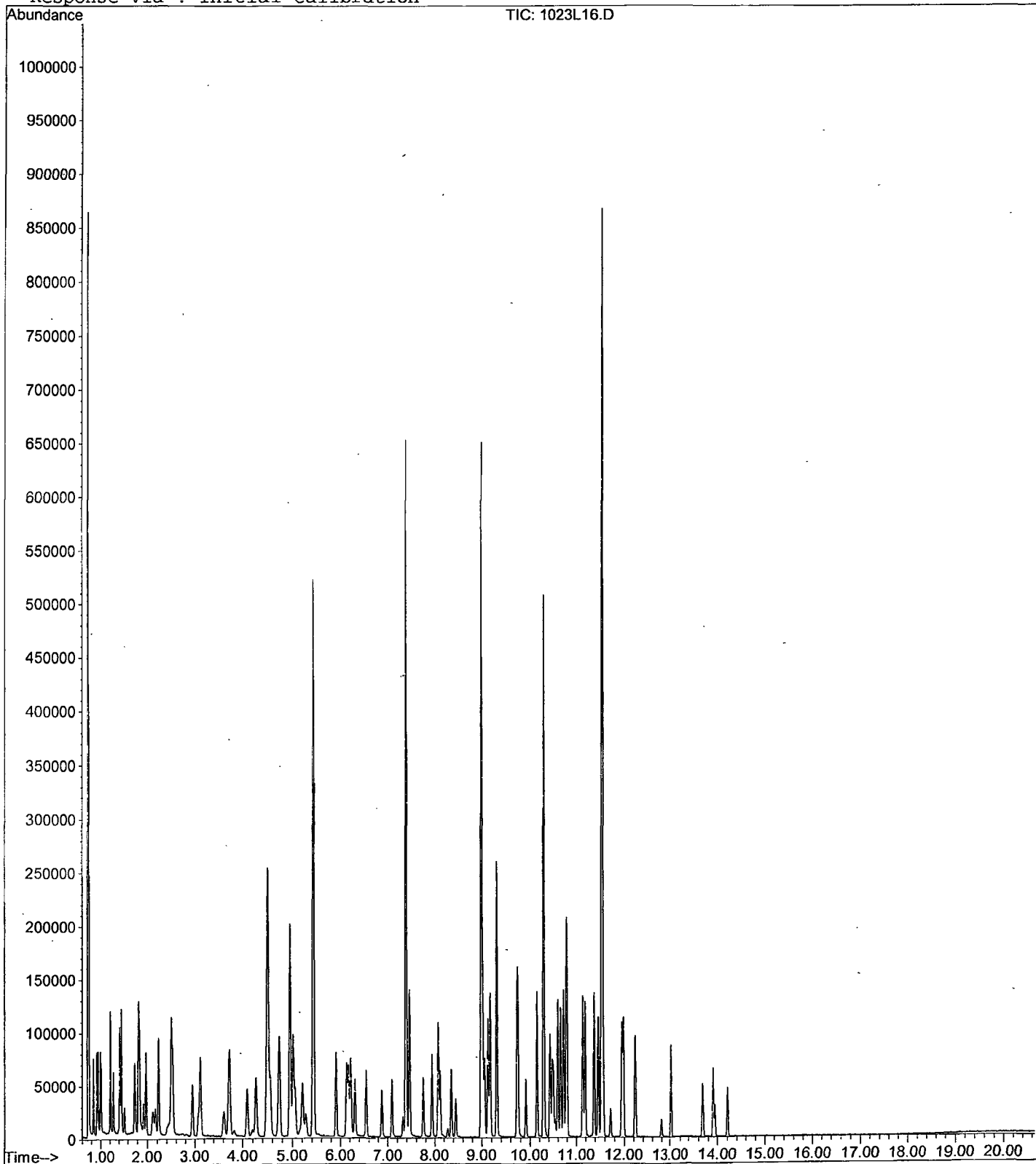
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	232256	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	154619	48.87	ppb	0.00
Spiked Amount	25.000		Recovery	= 195.492%		
3) 1,2-DCA-D4(S)	4.95	65	164006	48.25	ppb	0.00
Spiked Amount	25.000		Recovery	= 192.992%		
5) Toluene-D8(S)	7.38	98	466931	55.25	ppb	0.00
Spiked Amount	25.000		Recovery	= 221.008%		
6) 4-Bromofluorobenzene(S)	10.29	95	177941	59.45	ppb	0.00
Spiked Amount	25.000		Recovery	= 237.784%		

Target Compounds

Qvalue

Quantitation Report

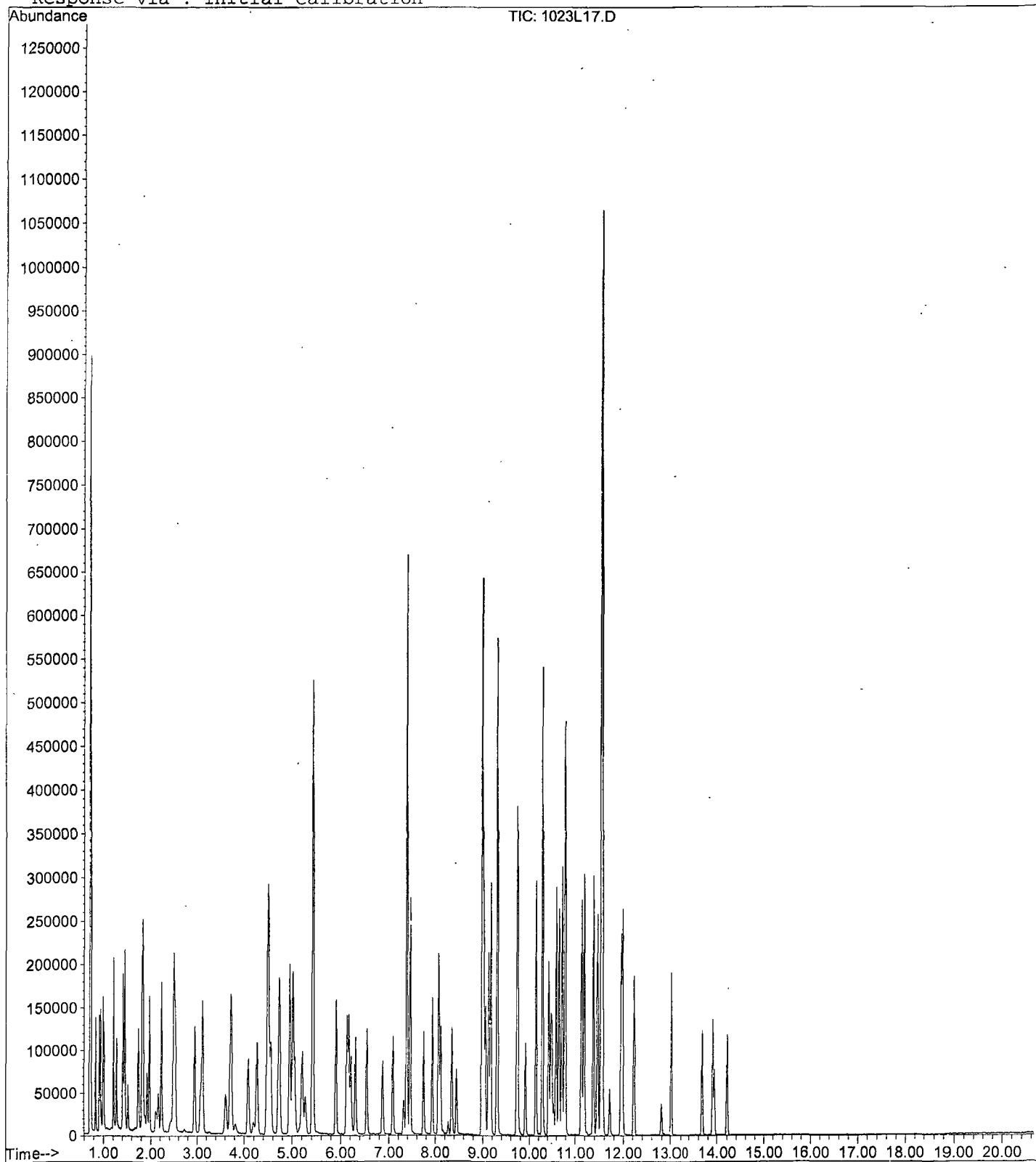
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D Vial: 14
 Acq On : 23 Oct 19 23:18 Operator:
 Sample : 100ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	239360	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	281593	89.93	ppb	0.00
Spiked Amount				25.000		
					Recovery =	359.704%
3) 1,2-DCA-D4(S)	4.95	65	301257	89.54	ppb	0.00
Spiked Amount				25.000		
					Recovery =	358.156%
5) Toluene-D8(S)	7.38	98	920813	105.73	ppb	0.00
Spiked Amount				25.000		
					Recovery =	422.904%
6) 4-Bromofluorobenzene(S)	10.29	95	349610	113.33	ppb	0.00
Spiked Amount				25.000		
					Recovery =	453.320%

Target Compounds Qvalue

Quantitation Report

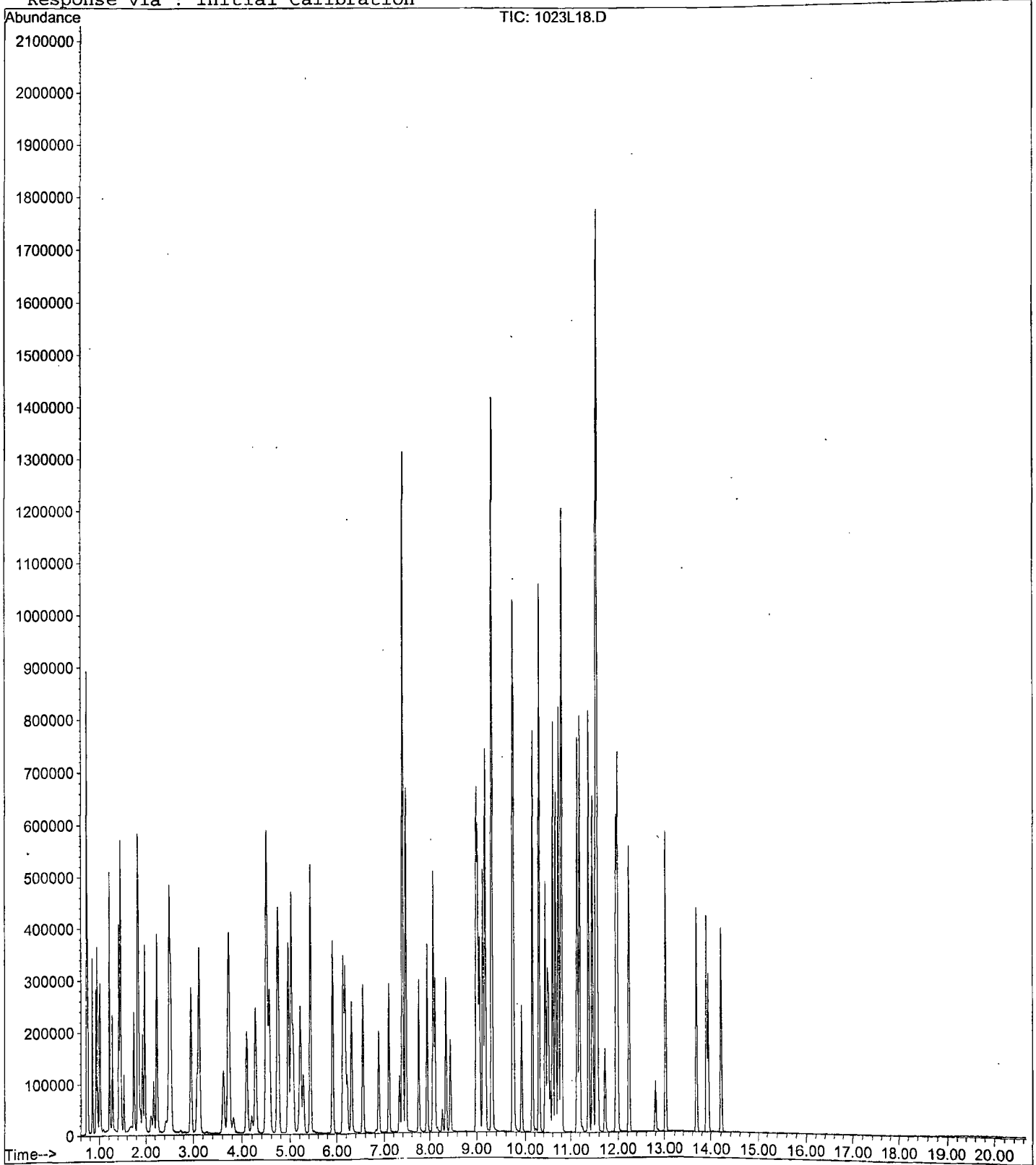
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Initial Cal. Date: 10/27/19 _____

Matrix: _____

Instrument: Loki _____

Initials: _____

1026L50.D 1026L51.D 1026L52.D 1026L53.D 1026L54.D 1026L55.D 1026L56.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	10.0	4.049	2.170	0.8414	0.5566	0.4779	0.4246				2.6	132	TMHBL	0.998		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
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Data File : M:\LOKI\DATA\191023\1026L50.D Vial: 50
 Acq On : 27 Oct 19 6:07 Operator:
 Sample : 20ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:56 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	587714	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	786274	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	795193	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4702558m	47.2992	ppb	100

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

Quantitation Report

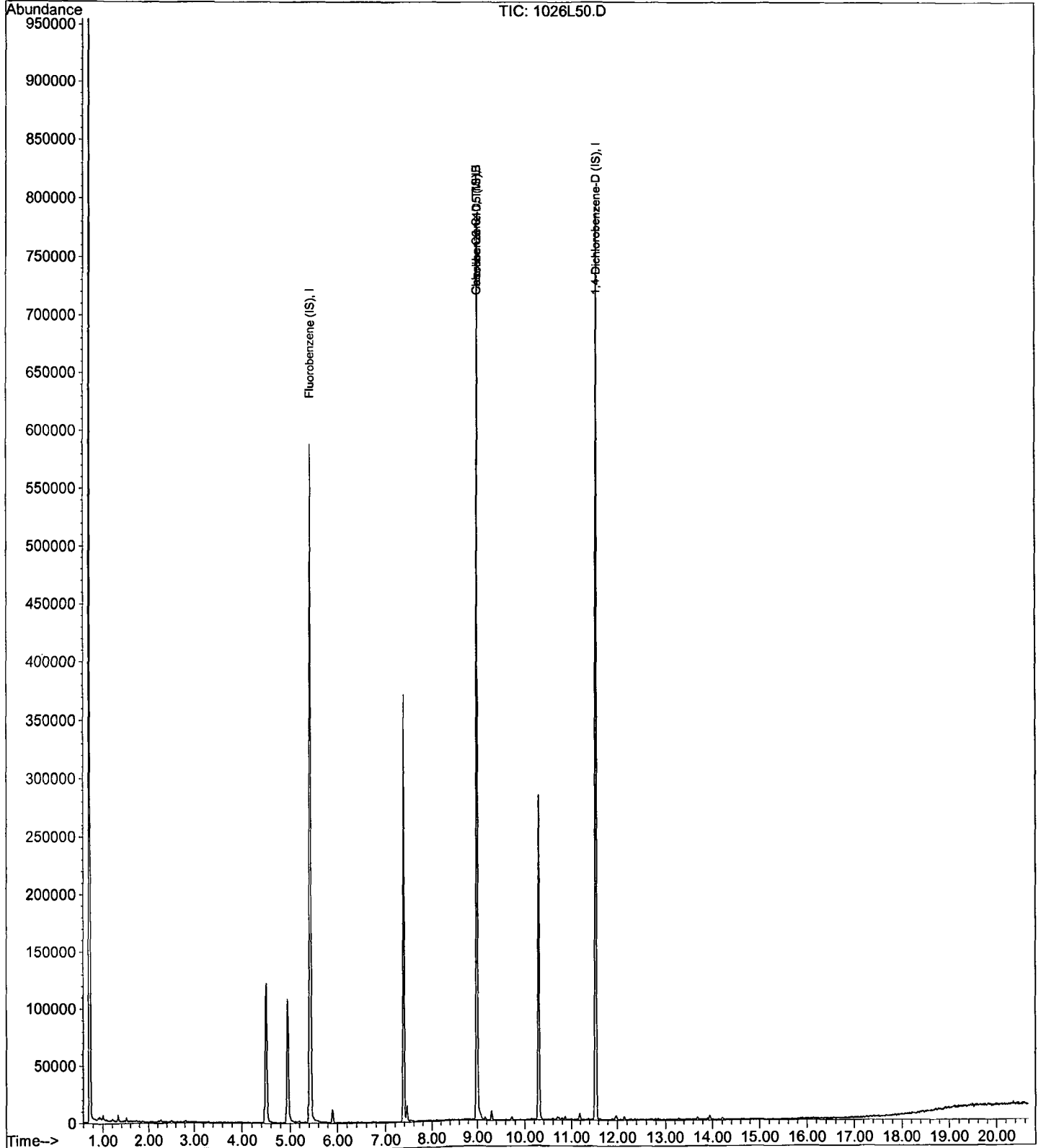
Data File : M:\LOKI\DATA\191023\1026L50.D
Acq On : 27 Oct 19 6:07
Sample : 20ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 50
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:56 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L51.D Vial: 51
 Acq On : 27 Oct 19 6:36 Operator:
 Sample : 50ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	613535	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	808241	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	781111	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4968405m	58.1803	ppb	100

Quantitation Report

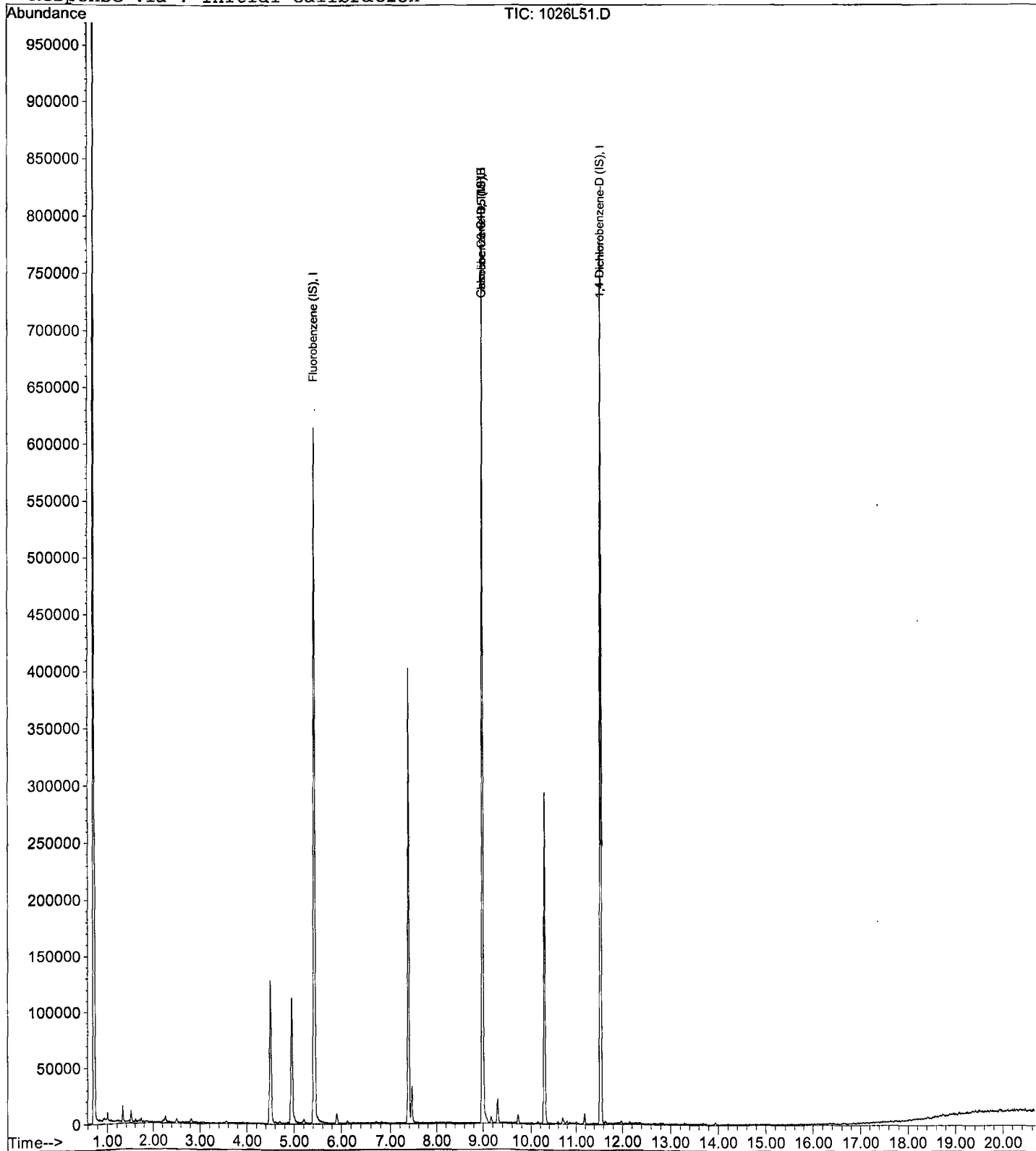
Data File : M:\LOKI\DATA\191023\1026L51.D
Acq On : 27 Oct 19 6:36
Sample : 50ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 51
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L52.D Vial: 52
 Acq On : 27 Oct 19 7:04 Operator:
 Sample : 100ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	589963	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	813222	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	779217	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5121065m	123.8017	ppb	100

Quantitation Report

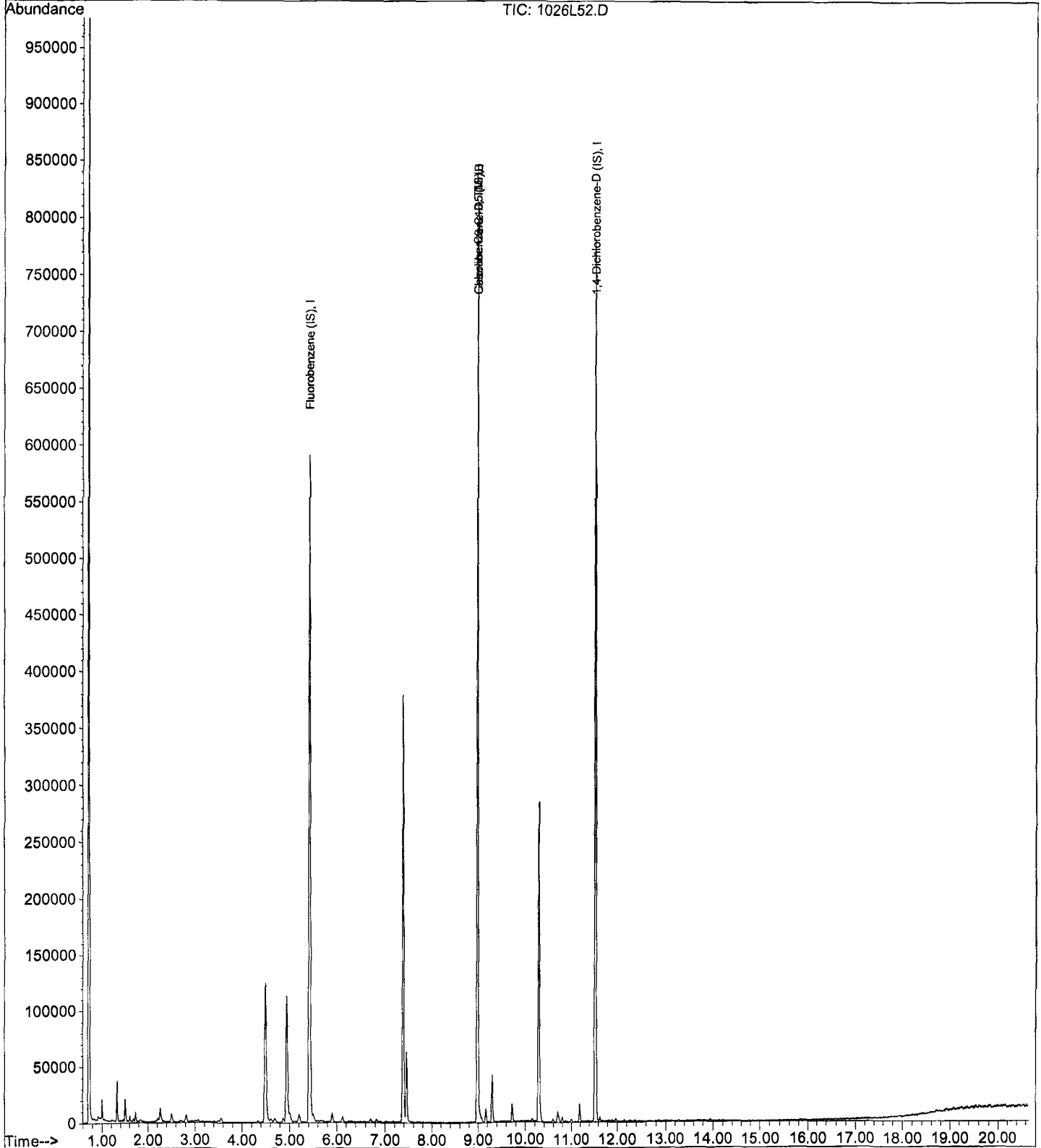
Data File : M:\LOKI\DATA\191023\1026L52.D
Acq On : 27 Oct 19 7:04
Sample : 100ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 52
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L53.D Vial: 53
 Acq On : 27 Oct 19 7:32 Operator:
 Sample : 300ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	605171	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	807996	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	810244	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6110194m	283.4073	ppb	100

Quantitation Report

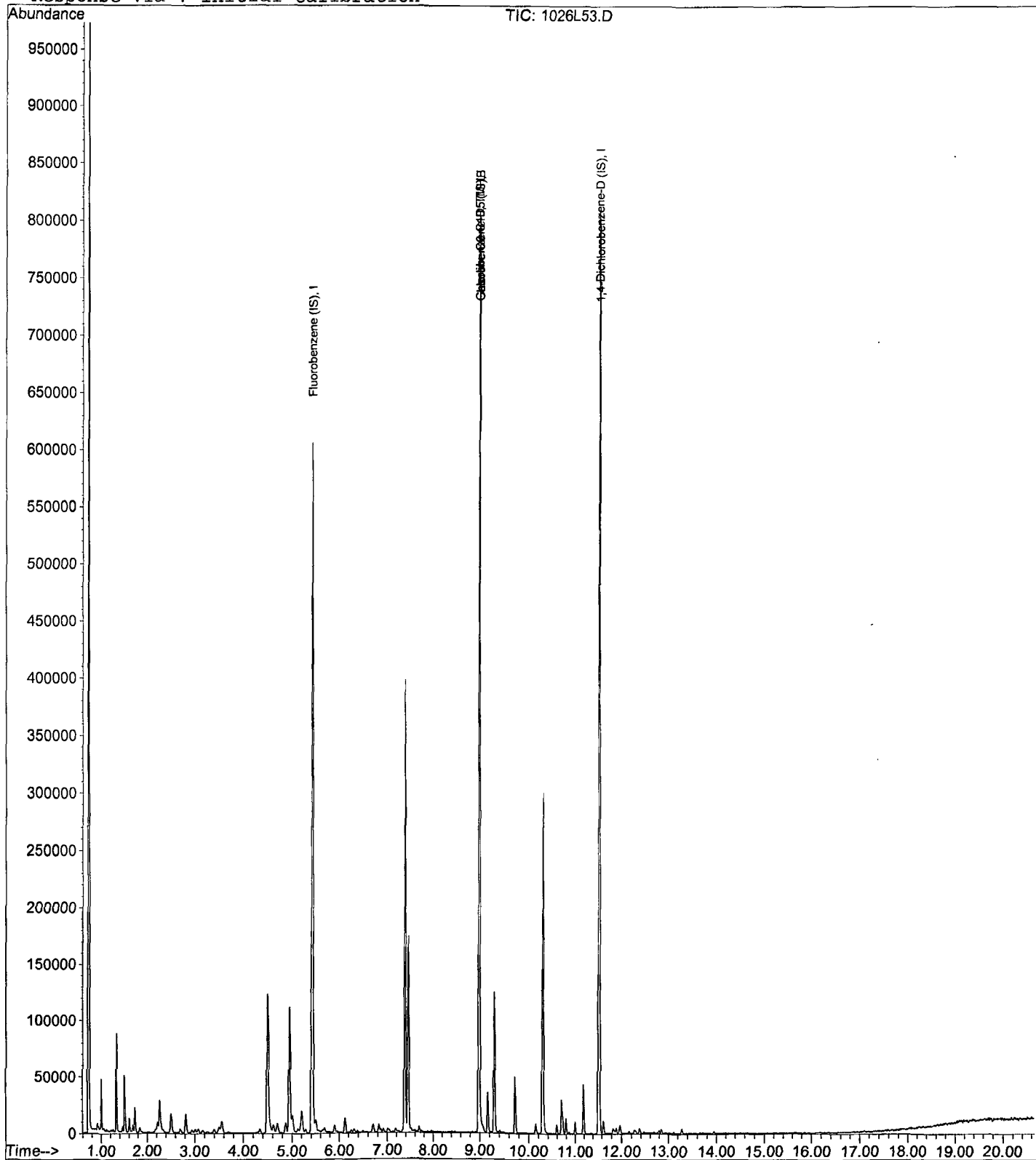
Data File : M:\LOKI\DATA\191023\1026L53.D
Acq On : 27 Oct 19 7:32
Sample : 300ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 53
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L54.D Vial: 54
 Acq On : 27 Oct 19 8:01 Operator:
 Sample : 600ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	621964	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	824309	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	863438	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	8308732m	651.0269	ppb	100

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

Quantitation Report

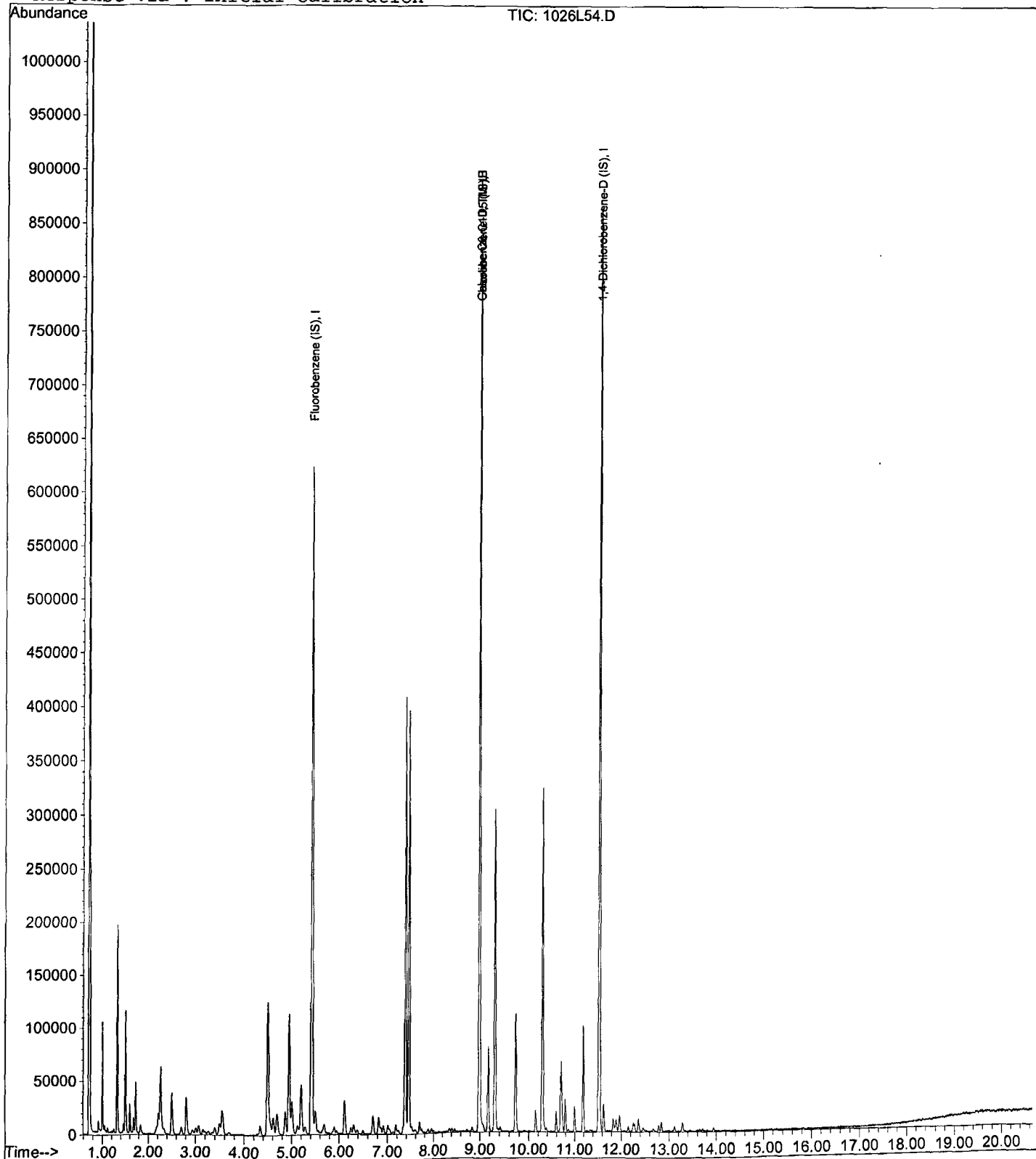
Data File : M:\LOKI\DATA\191023\1026L54.D
Acq On : 27 Oct 19 8:01
Sample : 600ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 54
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L55.D Vial: 55
 Acq On : 27 Oct 19 8:29 Operator:
 Sample : 800ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	621888	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	829776	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	844730	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	9510252m	868.9337	ppb	100

Quantitation Report

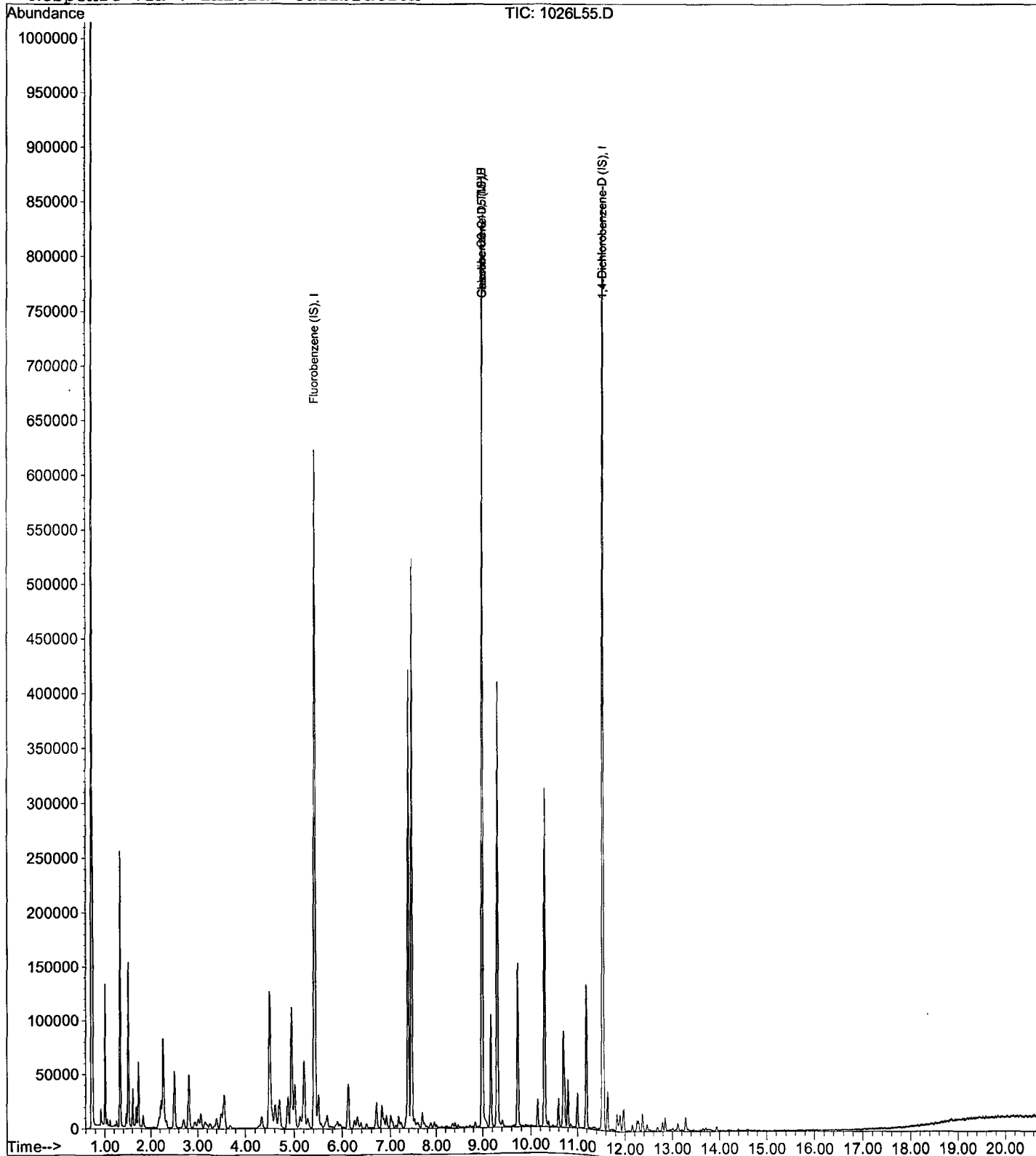
Data File : M:\LOKI\DATA\191023\1026L55.D
Acq On : 27 Oct 19 8:29
Sample : 800ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 55
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L56.D Vial: 56
 Acq On : 27 Oct 19 8:58 Operator:
 Sample : 1000ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:54 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	630476	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	837268	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	862019	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	10708466m	1059.6259	ppb	100

Quantitation Report

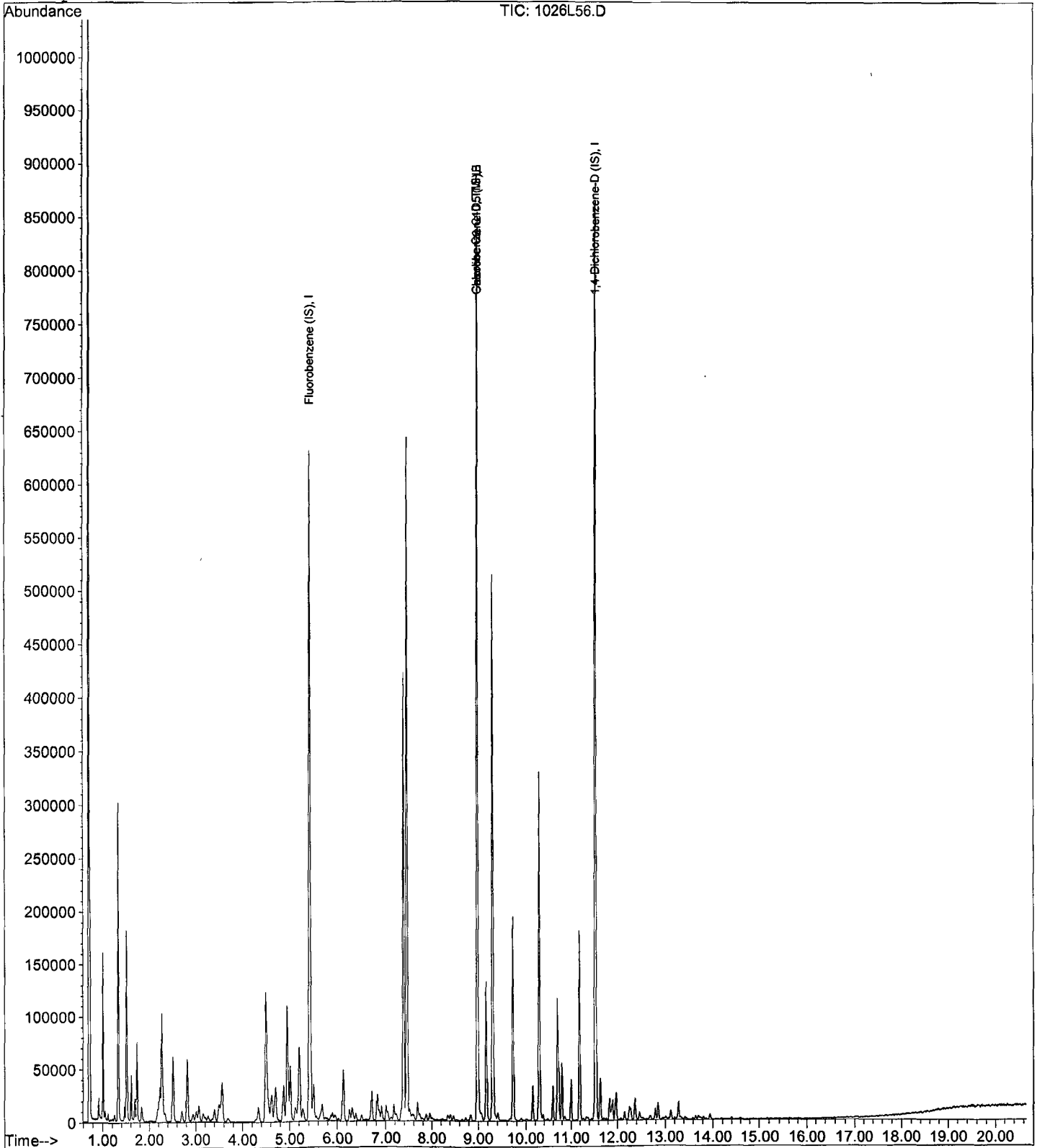
Data File : M:\LOKI\DATA\191023\1026L56.D
Acq On : 27 Oct 19 8:58
Sample : 1000ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 56
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:54 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L09.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	2.646	0.8841	67	4.9
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

Data File : M:\LOKI\DATA\191023\1028L09.D Vial: 9
 Acq On : 28 Oct 19 13:58 Operator:
 Sample : (SS) 300ug/L GAS STD 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:40 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.41	TIC	582767	25.0000	ppb	-0.01
3) Chlorobenzene-D5 (IS)	8.98	TIC	816146	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	800804	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.98	TIC	6182345m	314.7573	ppb	100

Quantitation Report

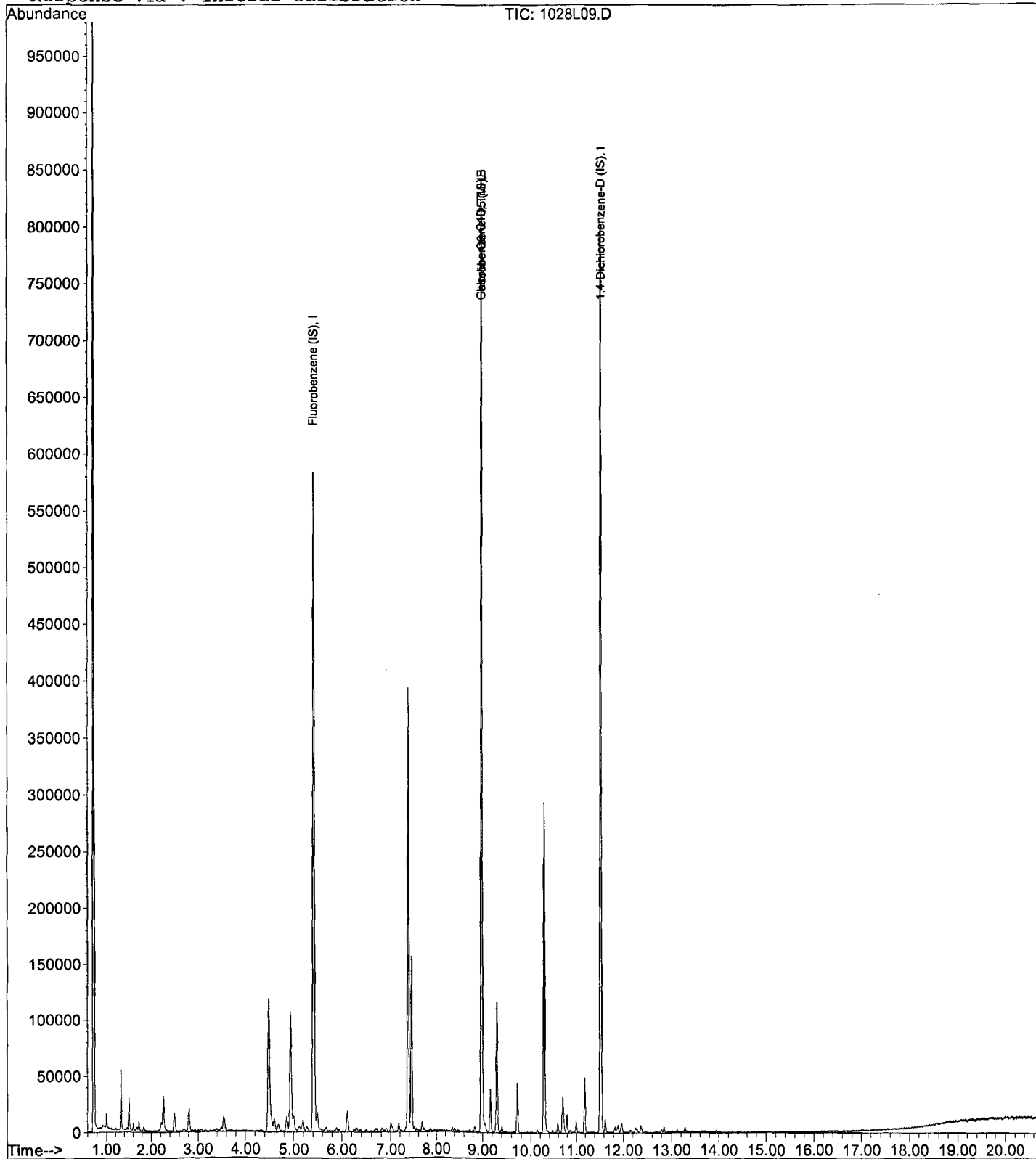
Data File : M:\LOKI\DATA\191023\1028L09.D
Acq On : 28 Oct 19 13:58
Sample : (SS) 300ug/L GAS STD 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:40 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/19

Data File: 1028L05.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	2.646	0.8863	67	TMHBL 5.9
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L05.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.3078	0.3071	0.24	S
3	S 1,2-DCA-D4(S)	0.3307	0.3481	5.2	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	0.9097	0.9981	9.7	S
6	S 4-Bromofluorobenzene(S)	0.3222	0.3610	12	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
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32					
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34					
35					
36					
37					
38					
39					
40	Average			6.8	

Data File : M:\LOKI\DATA\191023\1028L05.D Vial: 5
 Acq On : 28 Oct 19 8:17 Operator:
 Sample : 191028A CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 12:05 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	574821	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	743829	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	773202	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6113676m	317.6562	ppb	100

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

Data File : M:\LOKI\DATA\191023\1028L05.D Vial: 5
 Acq On : 28 Oct 19 8:17 Operator:
 Sample : 191028A CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:45 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	279040	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	266880	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	143936	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	85683	24.9401	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.760%	
3) 1,2-DCA-D4(S)	4.94	65	97127	26.3122	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.248%	
5) Toluene-D8(S)	7.38	98	266377	27.4310	ppb	0.00
Spiked Amount				25.000		
				Recovery =	109.724%	
6) 4-Bromofluorobenzene(S)	10.28	95	96357	28.0143	ppb	0.00
Spiked Amount				25.000		
				Recovery =	112.056%	

Target Compounds Qvalue

Quantitation Report

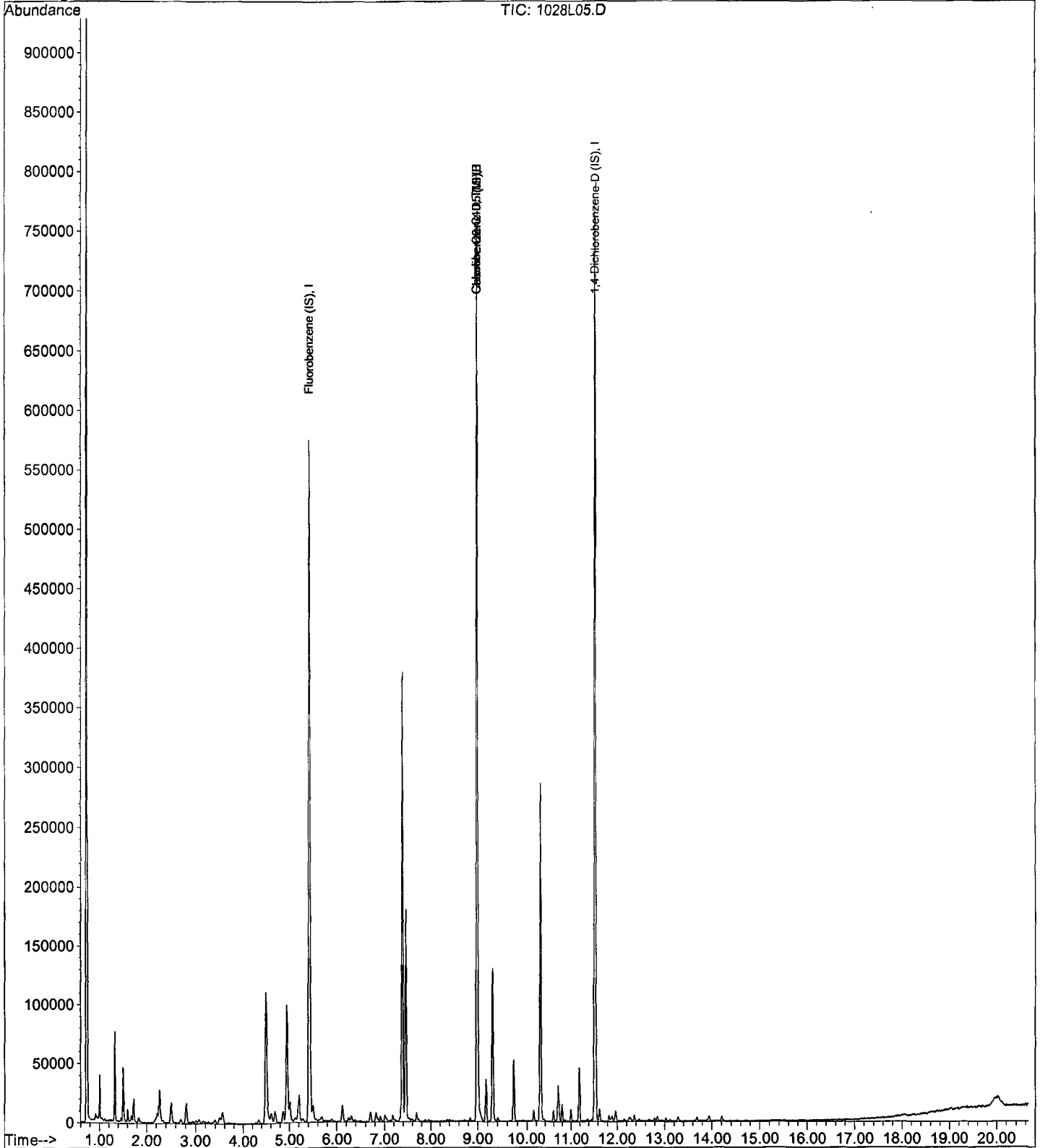
Data File : M:\LOKI\DATA\191023\1028L05.D
Acq On : 28 Oct 19 8:17
Sample : 191028A CCV 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 5
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 12:05 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L19.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline C6-C10	2.646	0.8616	67	TMHBL 4.7
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
10					
11					
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13					
14					
15					
16					
17					
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25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L19.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.3078	0.2946	4.3	S
3	S 1,2-DCA-D4(S)	0.3307	0.3569	7.9	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	0.9097	0.9381	3.1	S
6	S 4-Bromofluorobenzene(S)	0.3222	0.3432	6.5	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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20					
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34					
35					
36					
37					
38					
39					
40					

Average

5.5

Data File : M:\LOKI\DATA\191023\1028L19.D Vial: 19
 Acq On : 28 Oct 19 18:42 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:48 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	600412	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	809791	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	823937	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6207840m	286.0406	ppb	100

Data File : M:\LOKI\DATA\191023\1028L19.D Vial: 19
 Acq On : 28 Oct 19 18:42 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:48 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	290752	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	288576	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	153984	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	85661	23.9293	ppb	0.00
Spiked Amount				25.000		
				Recovery =	95.716%	
3) 1,2-DCA-D4(S)	4.95	65	103775	26.9807	ppb	0.00
Spiked Amount				25.000		
				Recovery =	107.924%	
5) Toluene-D8(S)	7.38	98	270700	25.7804	ppb	0.00
Spiked Amount				25.000		
				Recovery =	103.120%	
6) 4-Bromofluorobenzene(S)	10.29	95	99028	26.6263	ppb	0.00
Spiked Amount				25.000		
				Recovery =	106.504%	

Target Compounds Qvalue

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

Quantitation Report

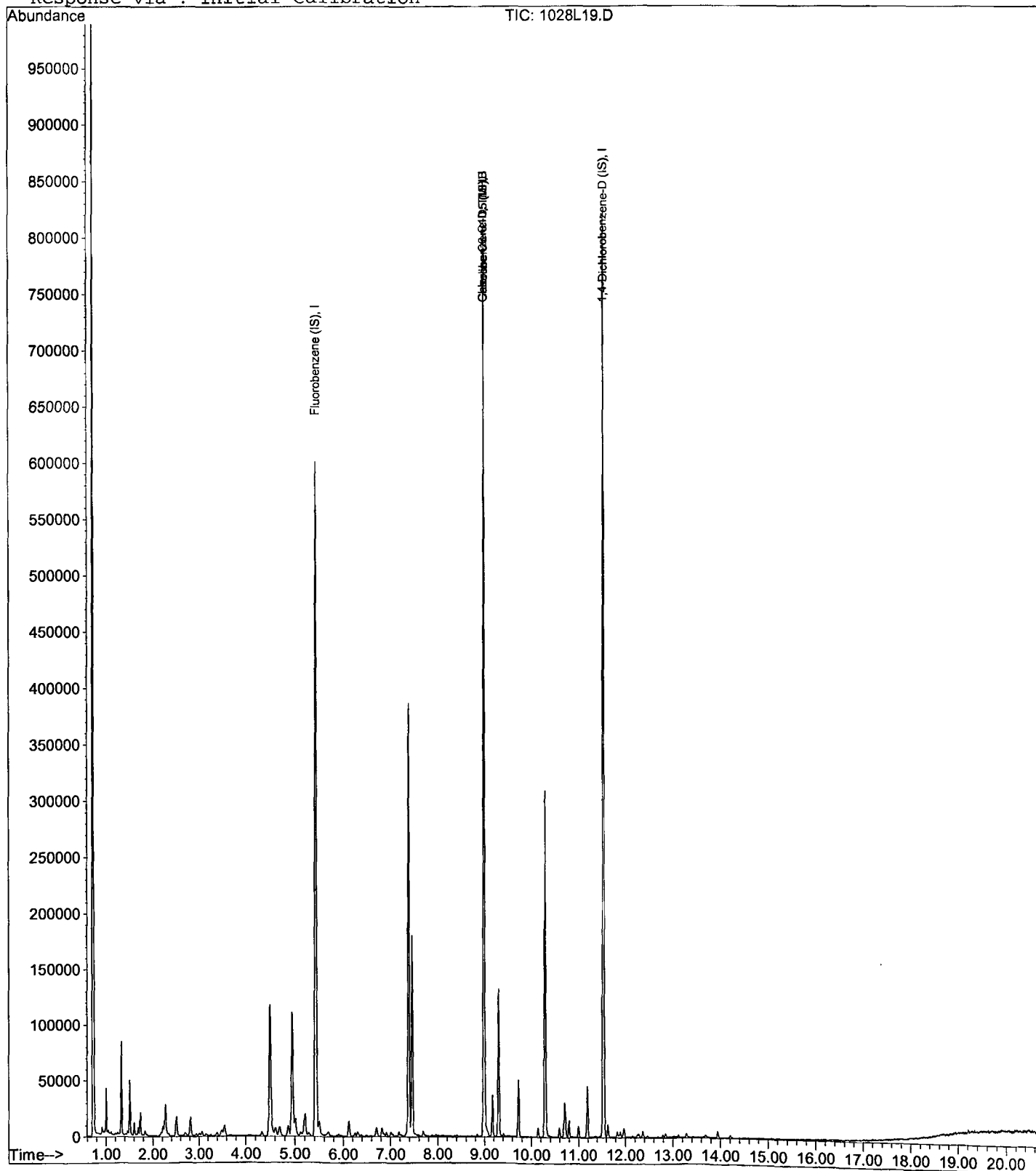
Data File : M:\LOKI\DATA\191023\1028L19.D
Acq On : 28 Oct 19 18:42
Sample : Ending CCV 300ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 19
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:48 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L24.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	2.646	0.8792	67	TMHBL 2.9
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
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25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L24.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.3078	0.3022	1.8	S
3	S 1,2-DCA-D4(S)	0.3307	0.3580	8.2	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	0.9097	0.9689	6.5	S
6	S 4-Bromofluorobenzene(S)	0.3222	0.3489	8.3	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
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16					
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35					
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37					
38					
39					
40	Average			6.2	

Data File : M:\LOKI\DATA\191023\1028L24.D Vial: 24
 Acq On : 28 Oct 19 21:05 Operator:
 Sample : 191028B CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:50 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	589556	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	791796	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	801390	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6220201m	308.5778	ppb	100

Data File : M:\LOKI\DATA\191023\1028L24.D Vial: 24
 Acq On : 28 Oct 19 21:05 Operator:
 Sample : 191028B CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	284608	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	282752	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	147136	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86009	24.5452	ppb	0.00
Spiked Amount						
					Recovery = 98.180%	
3) 1,2-DCA-D4(S)	4.95	65	101883	27.0607	ppb	0.00
Spiked Amount						
					Recovery = 108.244%	
5) Toluene-D8(S)	7.38	98	273951	26.6274	ppb	0.00
Spiked Amount						
					Recovery = 106.508%	
6) 4-Bromofluorobenzene(S)	10.28	95	98641	27.0685	ppb	0.00
Spiked Amount						
					Recovery = 108.276%	

Target Compounds Qvalue .

Quantitation Report

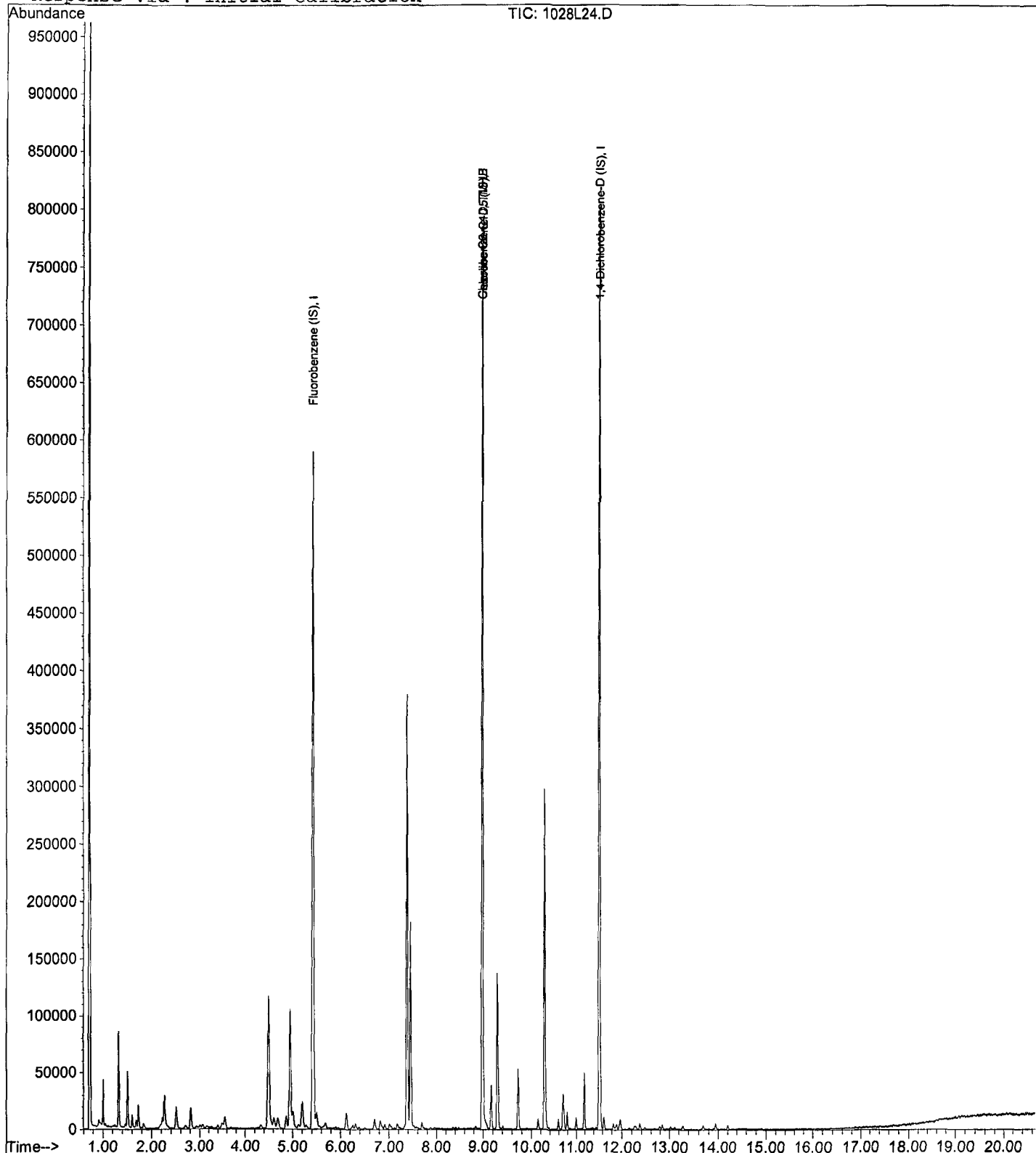
Data File : M:\LOKI\DATA\191023\1028L24.D
Acq On : 28 Oct 19 21:05
Sample : 191028B CCV 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:50 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L46.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline C6-C10	2.646	0.8709	67	TMHBL 0.69
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
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9					
10					
11					
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35					
36					
37					
38					
39					
40	Average			67.0	

**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/19

Data File: 1028L46.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.3078	0.3144	2.1	S
3	S 1,2-DCA-D4(S)	0.3307	0.3720	12	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	0.9097	0.9868	8.5	S
6	S 4-Bromofluorobenzene(S)	0.3222	0.3523	9.3	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
11					
12					
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16					
17					
18					
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37					
38					
39					
40	Average			8.0	

Data File : M:\LOKI\DATA\191023\1028L46.D Vial: 46
 Acq On : 29 Oct 19 7:30 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:54 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	577892	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	774368	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	757604	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6039506m	297.9435	ppb	100

Data File : M:\LOKI\DATA\191023\1028L46.D Vial: 46
 Acq On : 29 Oct 19 7:30 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277248	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274368	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	139712	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87158	25.5334	ppb	0.00
Spiked Amount				25.000		
				Recovery = 102.132%		
3) 1,2-DCA-D4(S)	4.95	65	103138	28.1212	ppb	0.00
Spiked Amount				25.000		
				Recovery = 112.484%		
5) Toluene-D8(S)	7.38	98	270743	27.1197	ppb	0.00
Spiked Amount				25.000		
				Recovery = 108.480%		
6) 4-Bromofluorobenzene(S)	10.28	95	96660	27.3354	ppb	0.00
Spiked Amount				25.000		
				Recovery = 109.340%		

Target Compounds Qvalue

Quantitation Report

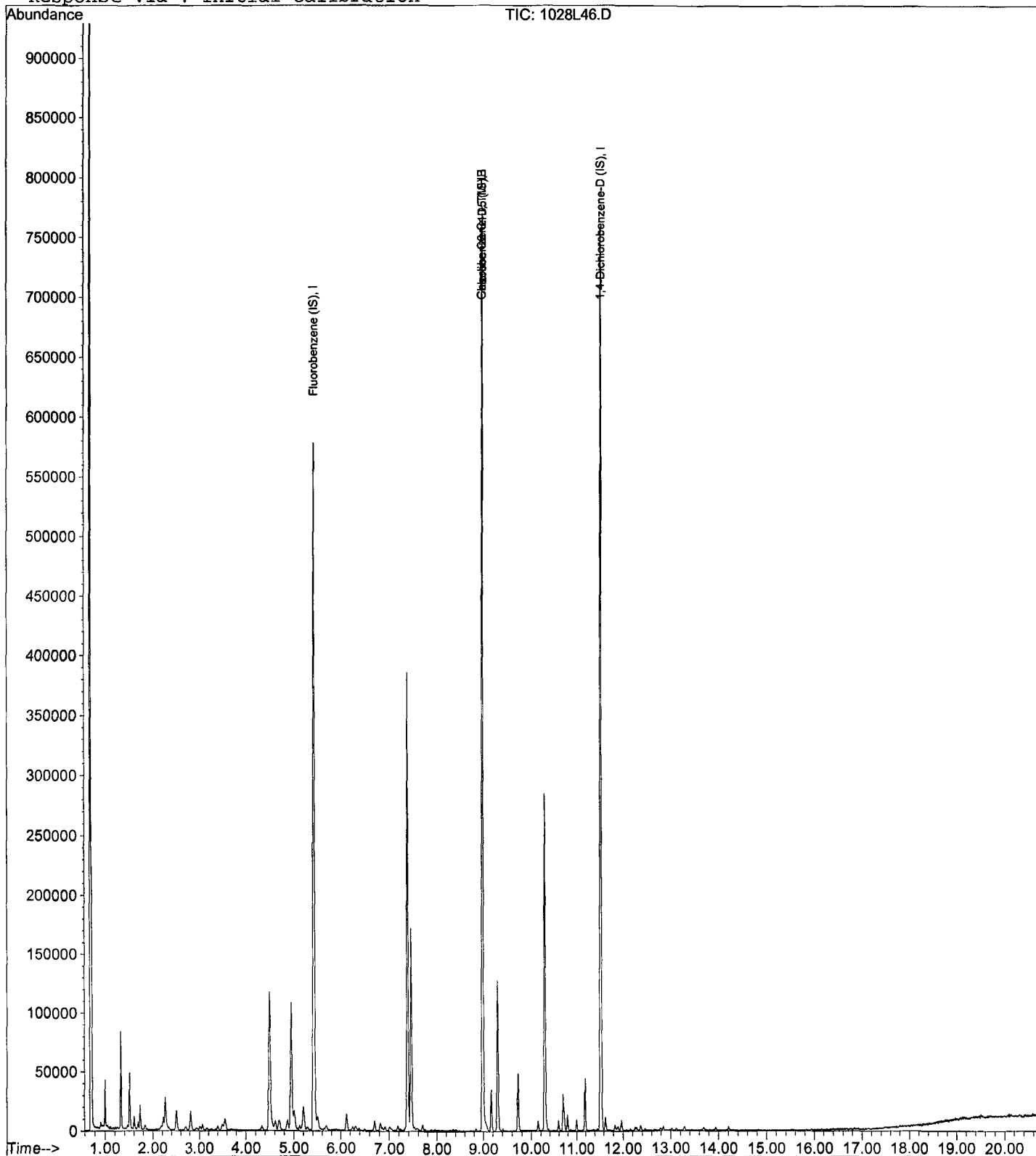
Data File : M:\LOKI\DATA\191023\1028L46.D
Acq On : 29 Oct 19 7:30
Sample : Ending CCV 300ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 46
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:54 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\191023\1028L12.D Vial: 12
 Acq On : 28 Oct 19 15:23 Operator:
 Sample : BA01650W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	569409	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	786668	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	746820	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L12.D Vial: 12
 Acq On : 28 Oct 19 15:23 Operator:
 Sample : BA01650W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	275456	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	280128	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	139136	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86472	25.4972	ppb	0.00
Spiked Amount 25.000						
					Recovery = 101.988%	
3) 1,2-DCA-D4(S)	4.95	65	101368	27.8184	ppb	0.00
Spiked Amount 25.000						
					Recovery = 111.272%	
5) Toluene-D8(S)	7.38	98	259355	25.4448	ppb	0.00
Spiked Amount 25.000						
					Recovery = 101.780%	
6) 4-Bromofluorobenzene(S)	10.29	95	92120	25.5159	ppb	0.00
Spiked Amount 25.000						
					Recovery = 102.064%	

Target Compounds Qvalue

Quantitation Report

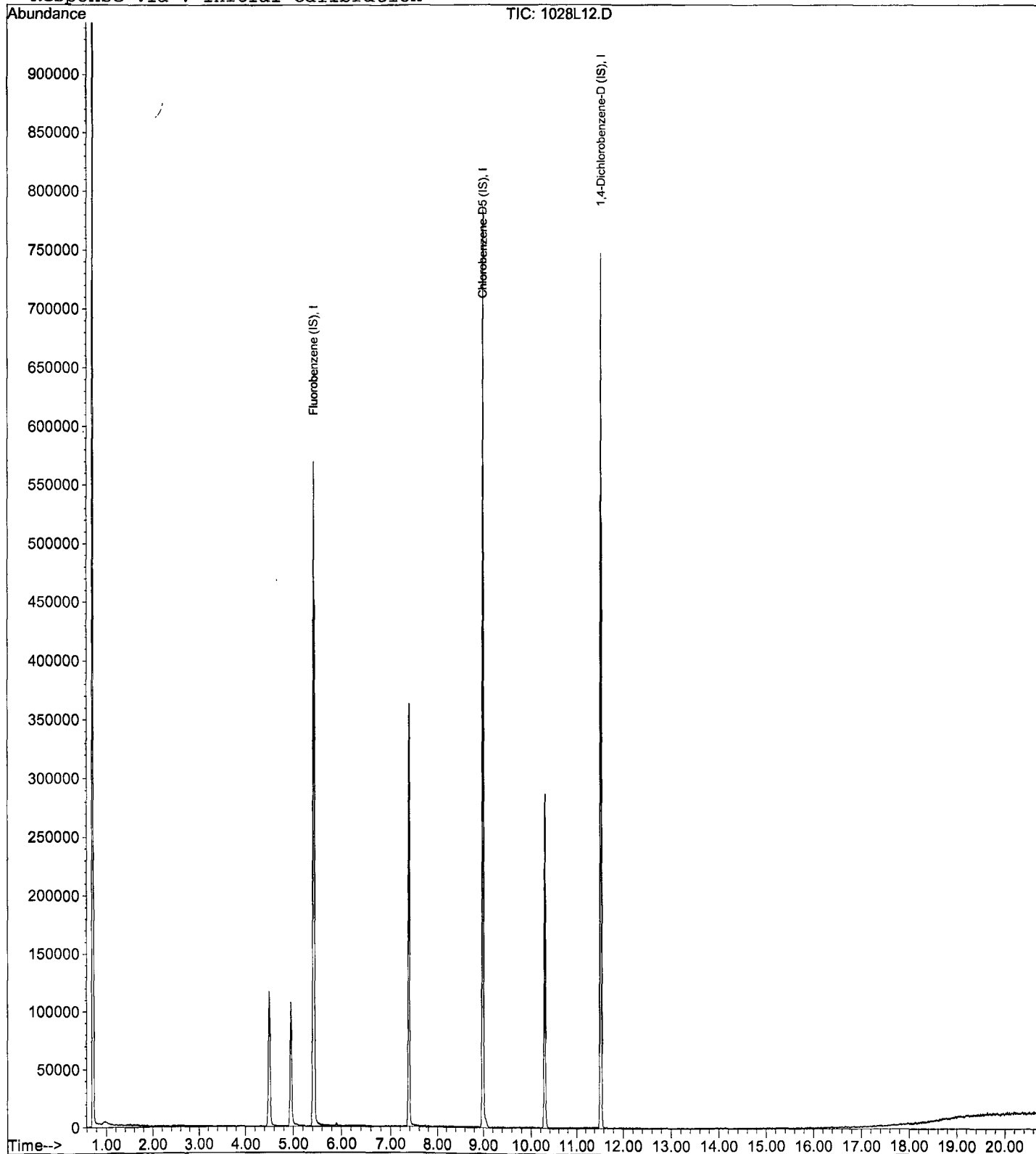
Data File : M:\LOKI\DATA\191023\1028L12.D
Acq On : 28 Oct 19 15:23
Sample : BA0165W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:46 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L13.D Vial: 13
 Acq On : 28 Oct 19 15:51 Operator:
 Sample : BA01651W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:47 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	559027	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	780953	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	878010	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4706140m	81.2152	ppb	100

Data File : M:\LOKI\DATA\191023\1028L13.D Vial: 13
 Acq On : 28 Oct 19 15:51 Operator:
 Sample : BA01651W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	272640	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	281920	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	163520	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	85490	25.4680	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.872%
3) 1,2-DCA-D4(S)	4.95	65	98149	27.2132	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	108.852%
5) Toluene-D8(S)	7.38	98	259364	25.2840	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.136%
6) 4-Bromofluorobenzene(S)	10.28	95	95003	26.1471	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	104.588%

Target Compounds Qvalue

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

Quantitation Report

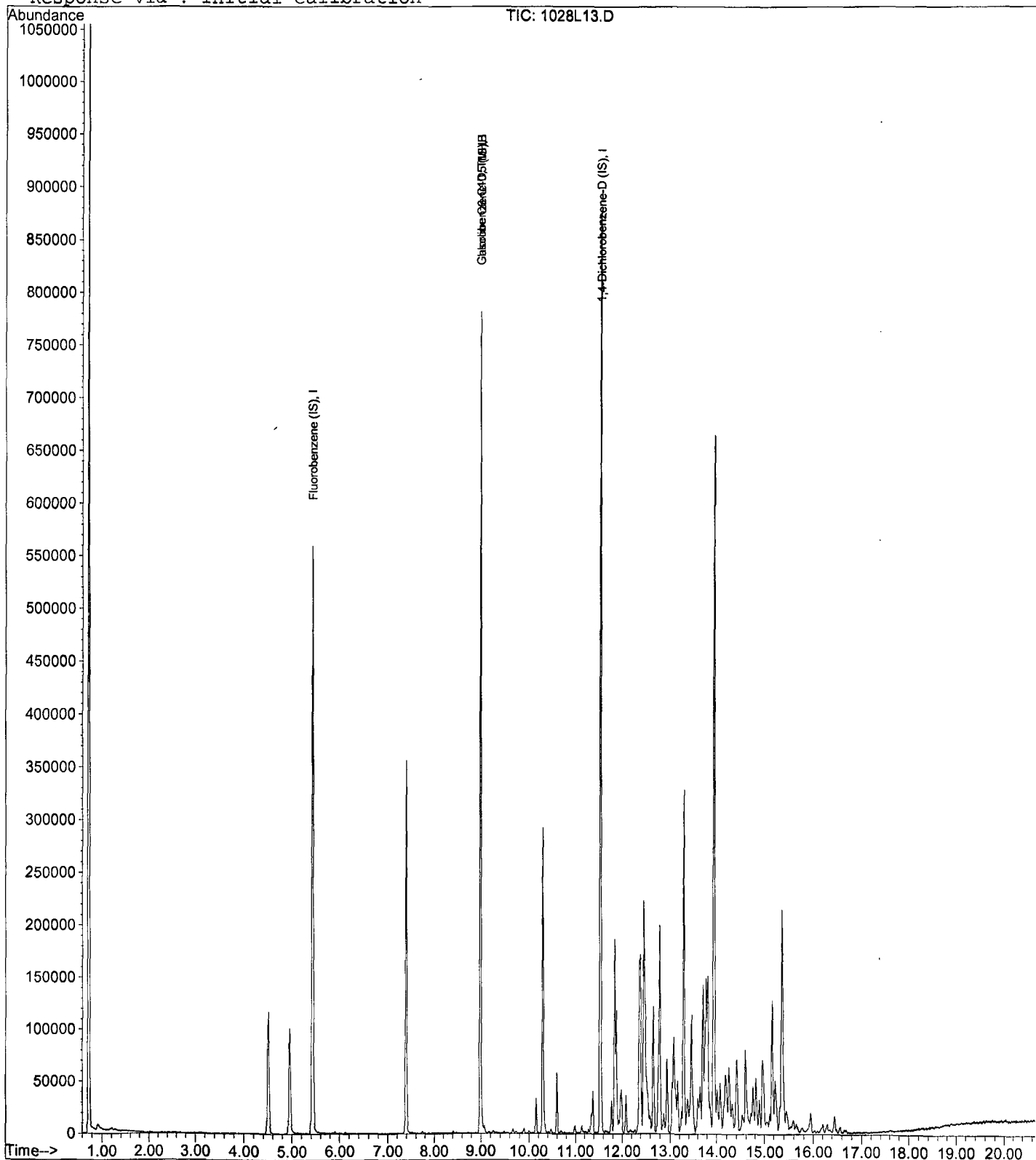
Data File : M:\LOKI\DATA\191023\1028L13.D
Acq On : 28 Oct 19 15:51
Sample : BA01651W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:47 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L14.D Vial: 14
 Acq On : 28 Oct 19 16:20 Operator:
 Sample : BA01652W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:47 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	595855	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	814470	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	889500	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4978511m	74.4751	ppb	100

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

Data File : M:\LOKI\DATA\191023\1028L14.D Vial: 14
 Acq On : 28 Oct 19 16:20 Operator:
 Sample : BA01652W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	289536	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	291264	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	164032	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	88514	24.8301	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	99.320%
3) 1,2-DCA-D4(S)	4.95	65	100561	26.2549	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	105.020%
5) Toluene-D8(S)	7.38	98	269629	25.4414	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.764%
6) 4-Bromofluorobenzene(S)	10.29	95	100537	26.7825	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	107.132%

Target Compounds Qvalue

Quantitation Report

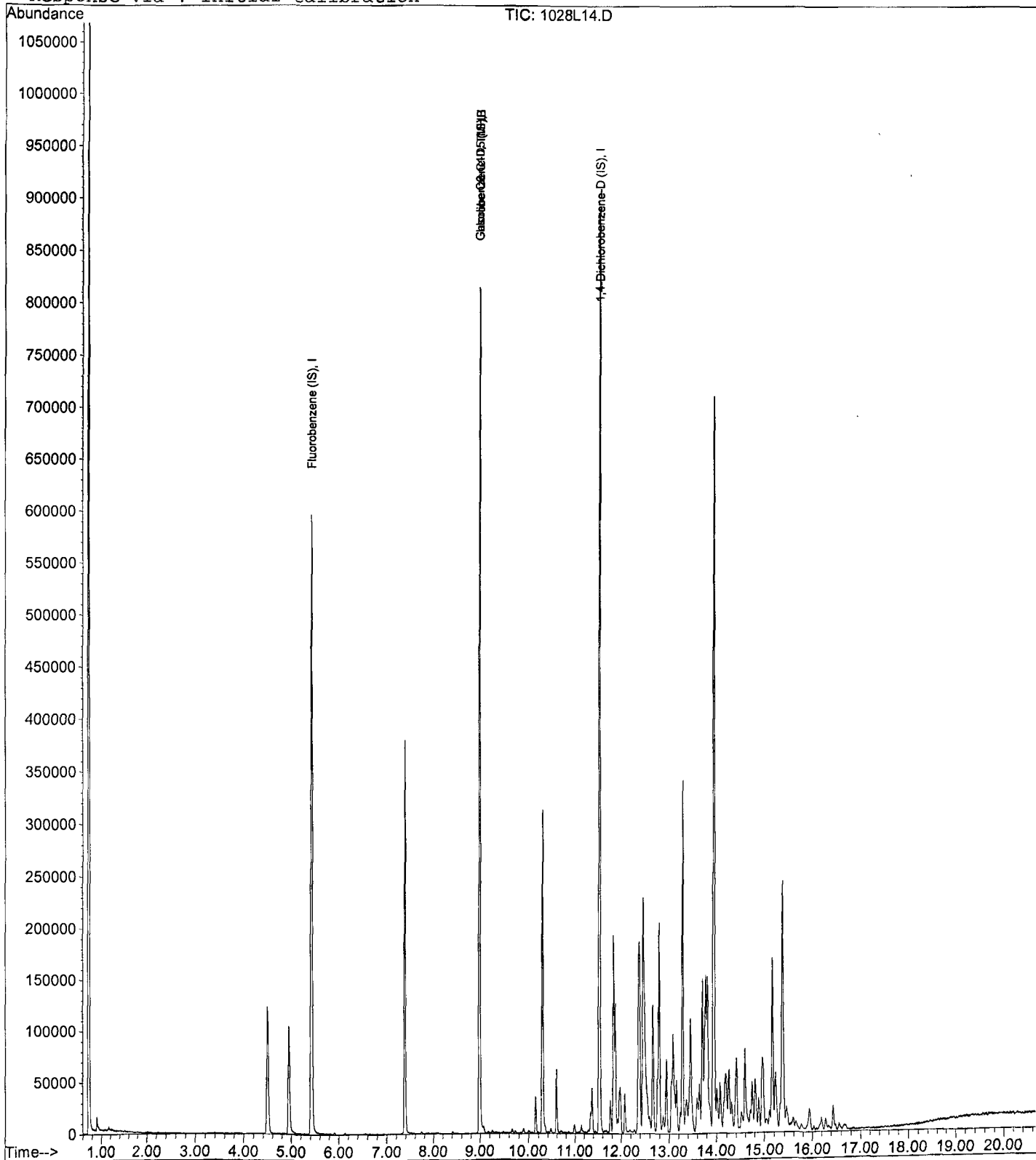
Data File : M:\LOKI\DATA\191023\1028L14.D
Acq On : 28 Oct 19 16:20
Sample : BA01652W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:47 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L10.D Vial: 10
 Acq On : 28 Oct 19 14:26 Operator:
 Sample : BA01653W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	568041	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	775572	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	732633	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L10.D
 Acq On : 28 Oct 19 14:26
 Sample : BA01653W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	271232	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	272768	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	136576	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	86037	25.7640	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	103.056%
3) 1,2-DCA-D4(S)	4.95	65	100922	28.1273	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	112.508%
5) Toluene-D8(S)	7.38	98	264970	26.6971	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	106.788%
6) 4-Bromofluorobenzene(S)	10.28	95	90309	25.6892	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	102.756%

Target Compounds

Qvalue

Quantitation Report

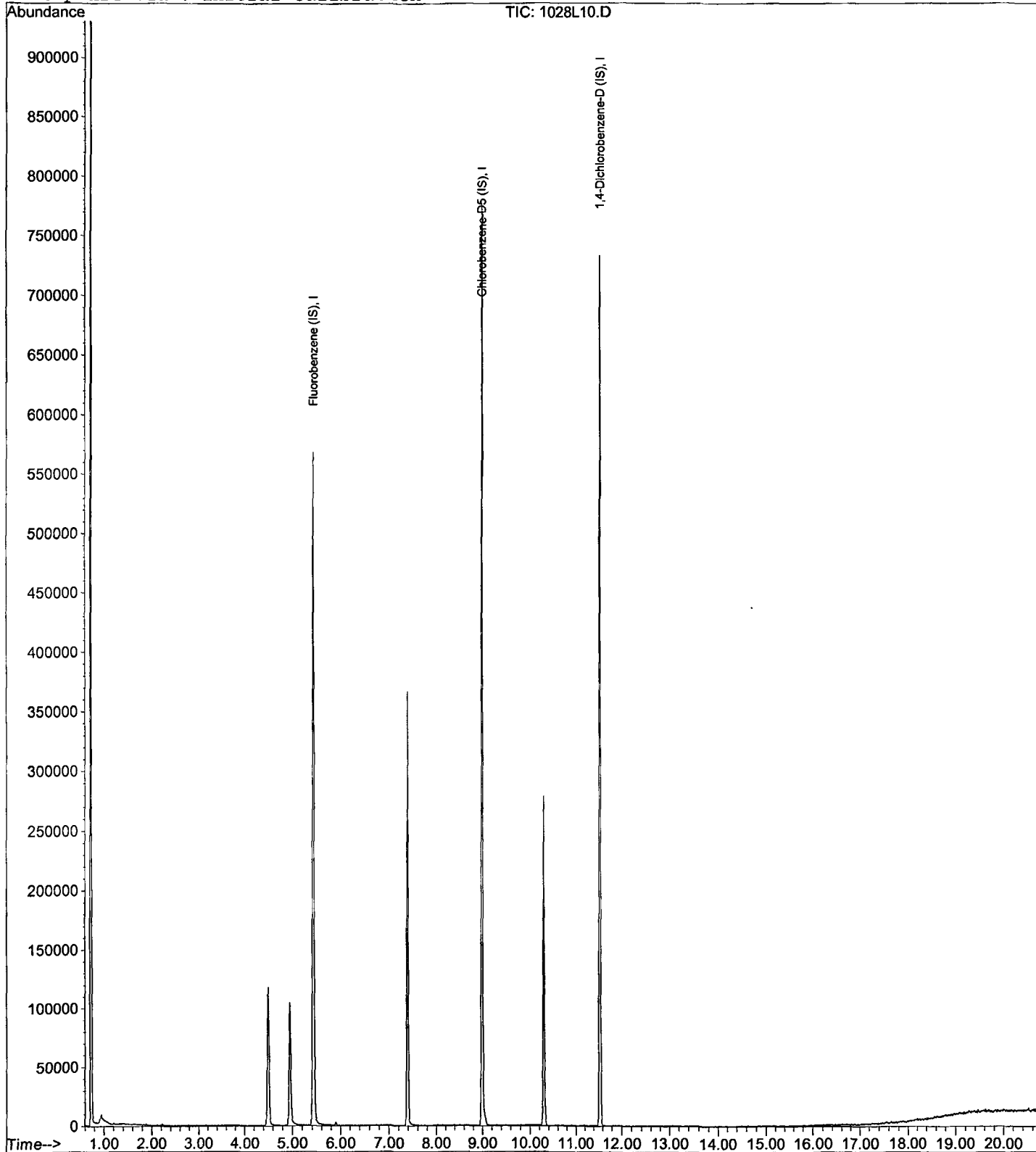
Data File : M:\LOKI\DATA\191023\1028L10.D
Acq On : 28 Oct 19 14:26
Sample : BA01653W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:46 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L15.D Vial: 15
 Acq On : 28 Oct 19 16:48 Operator:
 Sample : BA01654W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:47 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	595745	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	798127	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	791538	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L15.D Vial: 15
 Acq On : 28 Oct 19 16:48 Operator:
 Sample : BA01654W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	286144	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	284032	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	146496	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87852	24.9366	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.748%	
3) 1,2-DCA-D4(S)	4.95	65	102360	27.0414	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.164%	
5) Toluene-D8(S)	7.38	98	269528	26.0794	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.316%	
6) 4-Bromofluorobenzene(S)	10.28	95	93905	25.6528	ppb	0.00
Spiked Amount				25.000		
				Recovery =	102.612%	

Target Compounds Qvalue

Quantitation Report

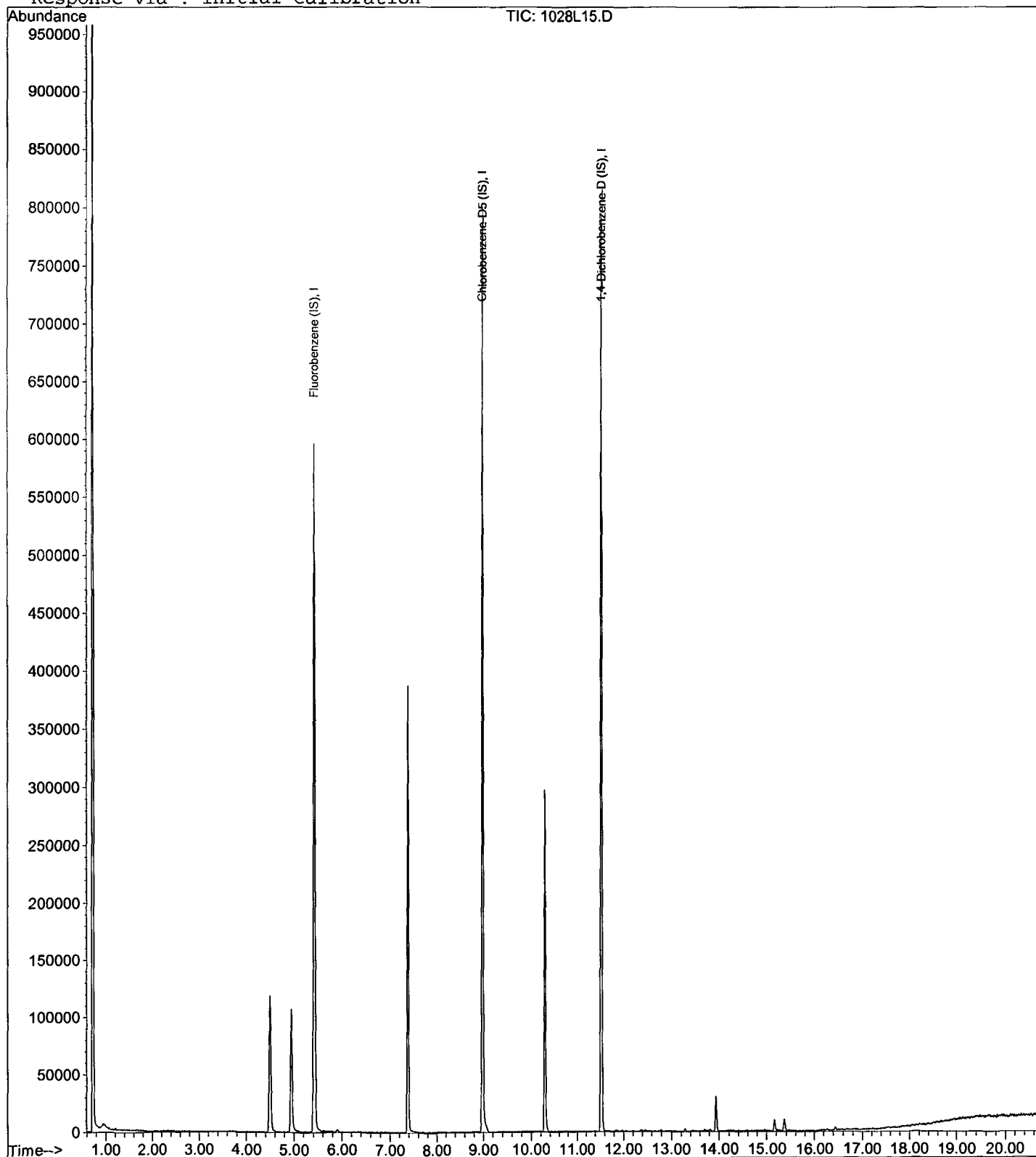
Data File : M:\LOKI\DATA\191023\1028L15.D
Acq On : 28 Oct 19 16:48
Sample : BA01654W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 15
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:47 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L16.D Vial: 16
 Acq On : 28 Oct 19 17:17 Operator:
 Sample : BA01655W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:47 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	557459	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	759509	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	780465	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L16.D Vial: 16
 Acq On : 28 Oct 19 17:17 Operator:
 Sample : BA01655W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	268736	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274368	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	145728	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	82843	25.0380	ppb	0.00
Spiked Amount				25.000		
				Recovery = 100.152%		
3) 1,2-DCA-D4(S)	4.95	65	97088	27.3101	ppb	0.00
Spiked Amount				25.000		
				Recovery = 109.240%		
5) Toluene-D8(S)	7.38	98	259169	25.9604	ppb	0.00
Spiked Amount				25.000		
				Recovery = 103.840%		
6) 4-Bromofluorobenzene(S)	10.28	95	92074	26.0385	ppb	0.00
Spiked Amount				25.000		
				Recovery = 104.156%		

Target Compounds Qvalue

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

Quantitation Report

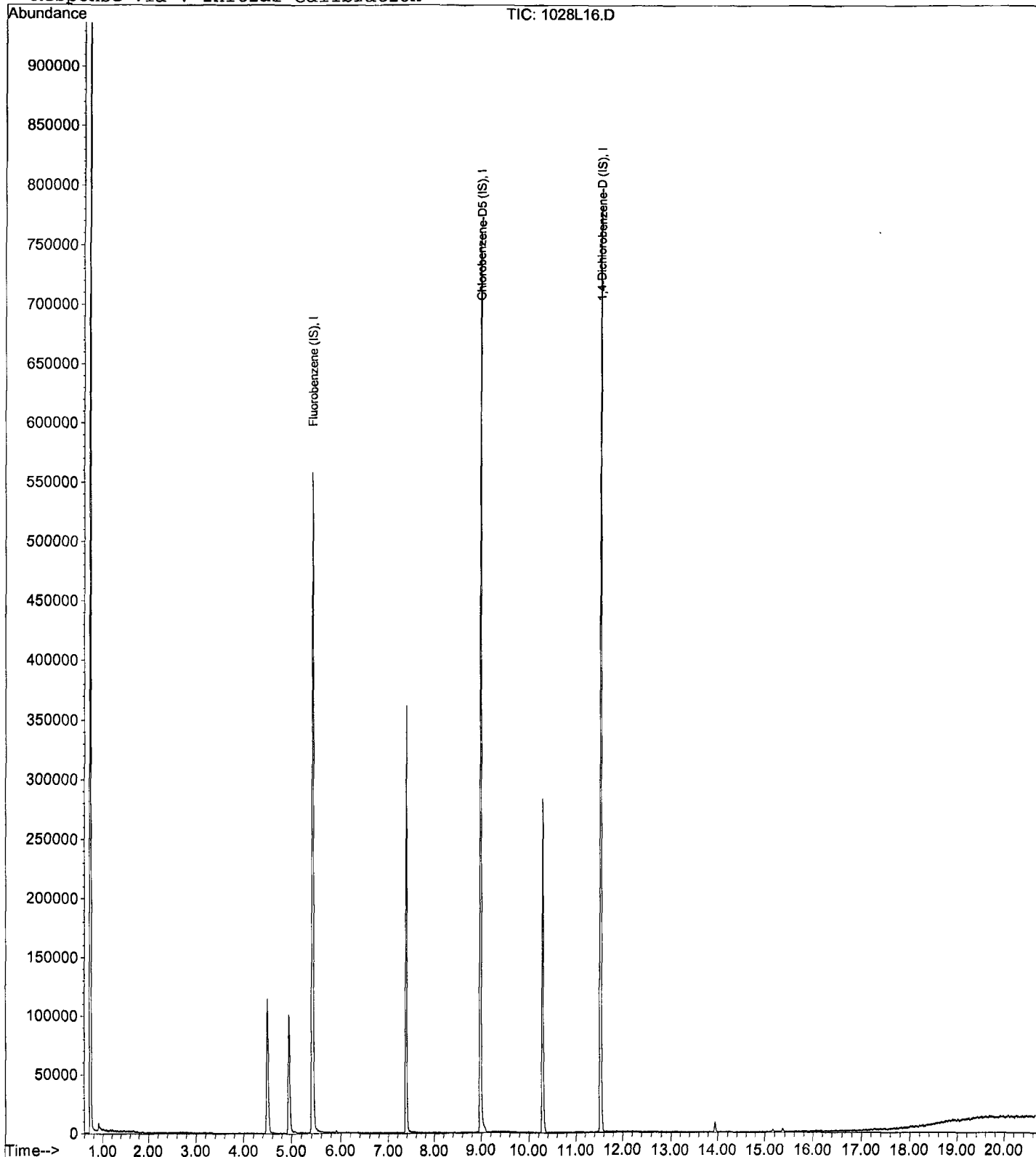
Data File : M:\LOKI\DATA\191023\1028L16.D
Acq On : 28 Oct 19 17:17
Sample : BA01655W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:47 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L17.D Vial: 17
 Acq On : 28 Oct 19 17:45 Operator:
 Sample : BA01656W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:47 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	566915	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	757854	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	734008	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L17.D Vial: 17
 Acq On : 28 Oct 19 17:45 Operator:
 Sample : BA01656W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	274688	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	268096	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	138176	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	83646	24.7329	ppb	0.00
Spiked Amount				25.000		
				Recovery =	98.932%	
3) 1,2-DCA-D4(S)	4.95	65	98756	27.1774	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.708%	
5) Toluene-D8(S)	7.38	98	257579	26.4047	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.620%	
6) 4-Bromofluorobenzene(S)	10.29	95	90256	26.1215	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.488%	

Target Compounds Qvalue

Quantitation Report

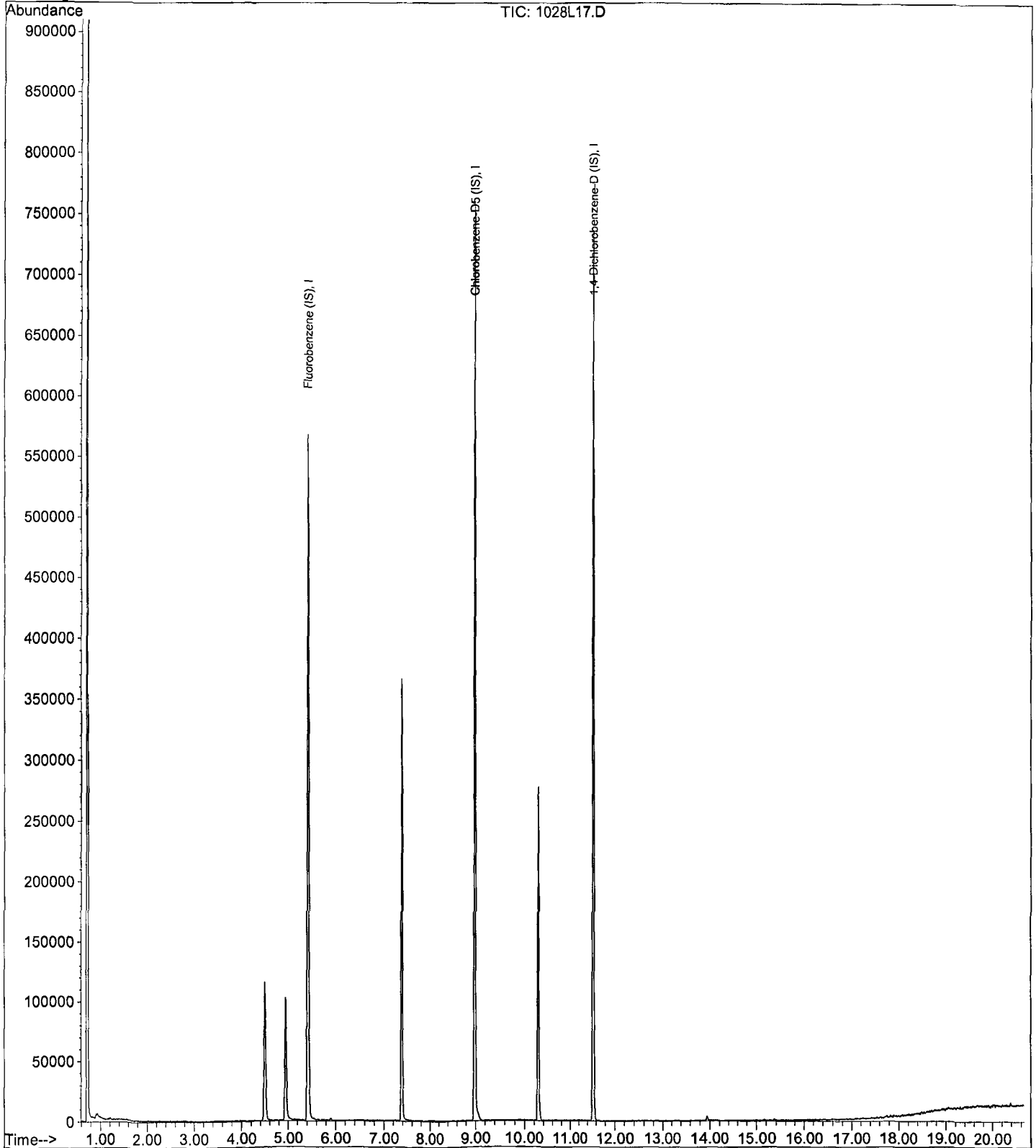
Data File : M:\LOKI\DATA\191023\1028L17.D
Acq On : 28 Oct 19 17:45
Sample : BA01656W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 17
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:47 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L11.D Vial: 11
 Acq On : 28 Oct 19 14:54 Operator:
 Sample : BA01657W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	575205	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	775661	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	759311	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L11.D Vial: 11
 Acq On : 28 Oct 19 14:54 Operator:
 Sample : BA01657W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	275776	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	277888	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	139648	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	84821	24.9814	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.924%	
3) 1,2-DCA-D4(S)	4.95	65	101657	27.8654	ppb	0.00
Spiked Amount				25.000		
				Recovery =	111.460%	
5) Toluene-D8(S)	7.38	98	264057	26.1150	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.460%	
6) 4-Bromofluorobenzene(S)	10.28	95	88903	24.8233	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.292%	

Target Compounds Qvalue

Quantitation Report

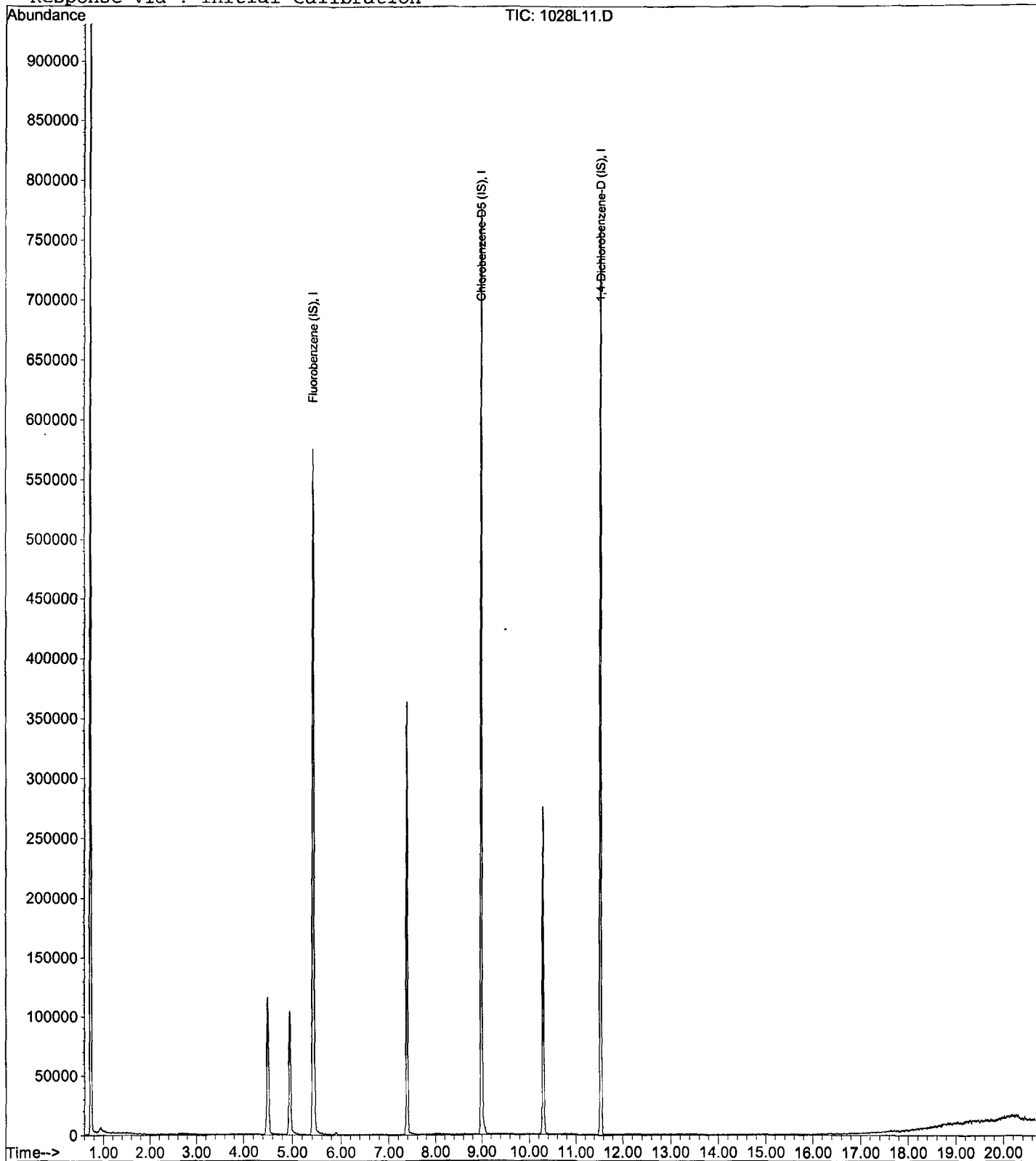
Data File : M:\LOKI\DATA\191023\1028L11.D
Acq On : 28 Oct 19 14:54
Sample : BA01657W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:46 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L32.D Vial: 32
 Acq On : 29 Oct 19 00:52 Operator:
 Sample : BA01658W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	564638	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	763477	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	700740	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L32.D Vial: 32
 Acq On : 29 Oct 19 00:52 Operator:
 Sample : BA01658W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	272704	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	271168	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	131200	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	84377	25.1306	ppb	0.00
Spiked Amount				25.000		
				Recovery =	100.524%	
3) 1,2-DCA-D4(S)	4.94	65	95551	26.4867	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.948%	
5) Toluene-D8(S)	7.38	98	256243	25.9702	ppb	0.00
Spiked Amount				25.000		
				Recovery =	103.880%	
6) 4-Bromofluorobenzene(S)	10.28	95	86955	24.8811	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.524%	

Target Compounds Qvalue

Quantitation Report

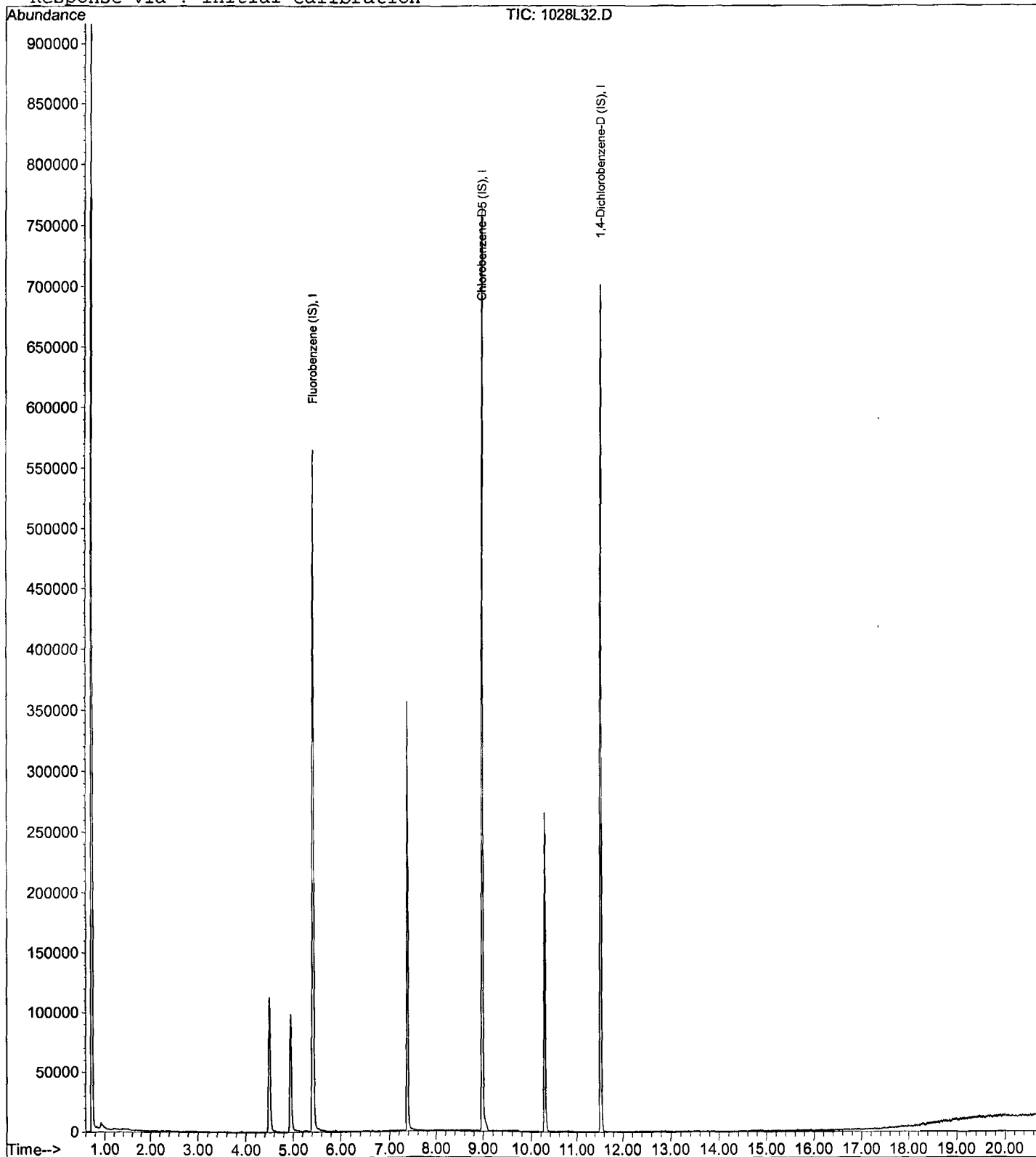
Data File : M:\LOKI\DATA\191023\1028L32.D
Acq On : 29 Oct 19 00:52
Sample : BA01658W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 32
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L38.D Vial: 38
 Acq On : 29 Oct 19 3:43 Operator:
 Sample : BA01659W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	567114	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	756238	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	678159	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L38.D Vial: 38
 Acq On : 29 Oct 19 3:43 Operator:
 Sample : BA01659W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	273664	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	271296	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	125824	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	85255	25.3030	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	101.212%
3) 1,2-DCA-D4(S)	4.94	65	97573	26.9523	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	107.808%
5) Toluene-D8(S)	7.38	98	256697	26.0039	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	104.016%
6) 4-Bromofluorobenzene(S)	10.28	95	86781	24.8196	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	99.280%

Target Compounds Qvalue

Quantitation Report

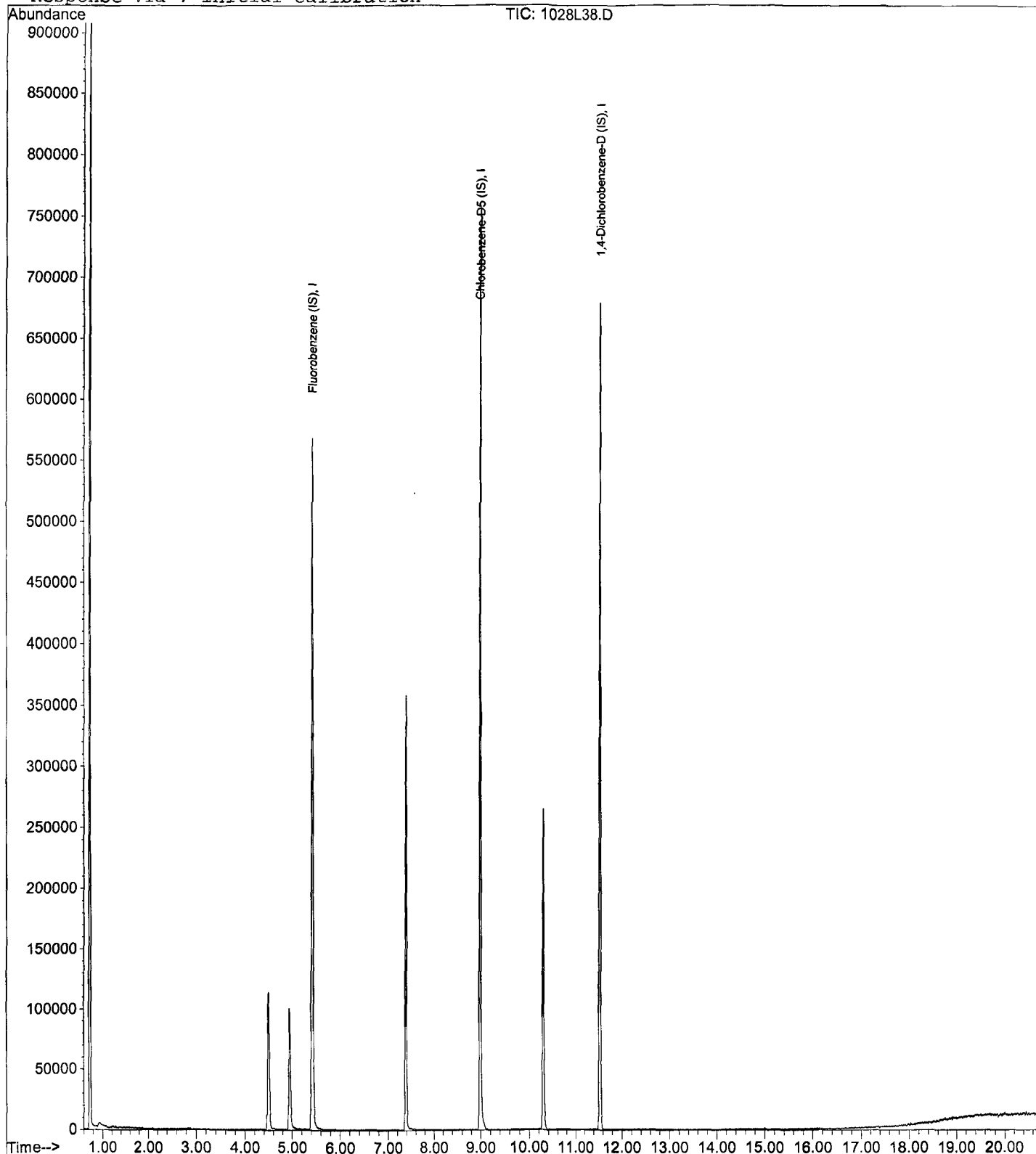
Data File : M:\LOKI\DATA\191023\1028L38.D
Acq On : 29 Oct 19 3:43
Sample : BA01659W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 38
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L33.D Vial: 33
 Acq On : 29 Oct 19 1:21 Operator:
 Sample : BA01660W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	564696	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	748901	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	703785	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L33.D Vial: 33
 Acq On : 29 Oct 19 1:21 Operator:
 Sample : BA01660W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	271808	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	269312	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	129544	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	84447	25.2343	ppb	0.00
Spiked Amount 25.000						
						Recovery = 100.936%
3) 1,2-DCA-D4(S)	4.95	65	99332	27.6255	ppb	0.00
Spiked Amount 25.000						
						Recovery = 110.504%
5) Toluene-D8(S)	7.38	98	255932	26.1174	ppb	0.00
Spiked Amount 25.000						
						Recovery = 104.468%
6) 4-Bromofluorobenzene(S)	10.28	95	89899	25.9007	ppb	0.00
Spiked Amount 25.000						
						Recovery = 103.604%

Target Compounds Qvalue

Quantitation Report

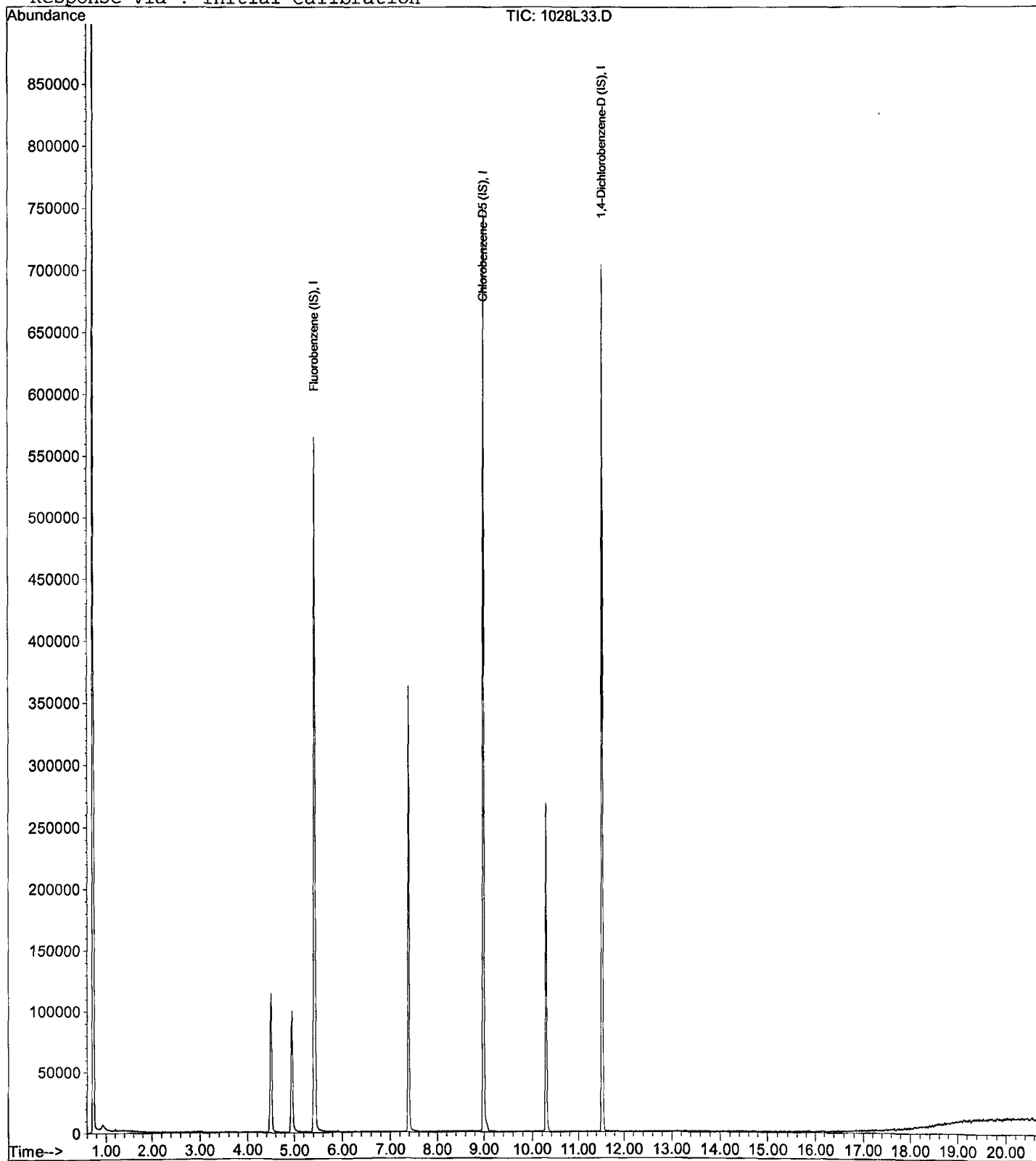
Data File : M:\LOKI\DATA\191023\1028L33.D
Acq On : 29 Oct 19 1:21
Sample : BA01660W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 33
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L36.D Vial: 36
 Acq On : 29 Oct 19 2:46 Operator:
 Sample : BA01661W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	568310	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	770485	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	698650	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L36.D Vial: 36
 Acq On : 29 Oct 19 2:46 Operator:
 Sample : BA01661W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	275776	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	271168	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	131136	25.0000	ppb	0.00

System Monitoring Compounds !

2) Dibromofluoromethane(S)	4.50	111	86642	25.5177	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.072%	
3) 1,2-DCA-D4(S)	4.95	65	99693	27.3270	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.308%	
5) Toluene-D8(S)	7.38	98	258779	26.2272	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.908%	
6) 4-Bromofluorobenzene(S)	10.29	95	87441	25.0201	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.080%	

Target Compounds Qvalue

Quantitation Report

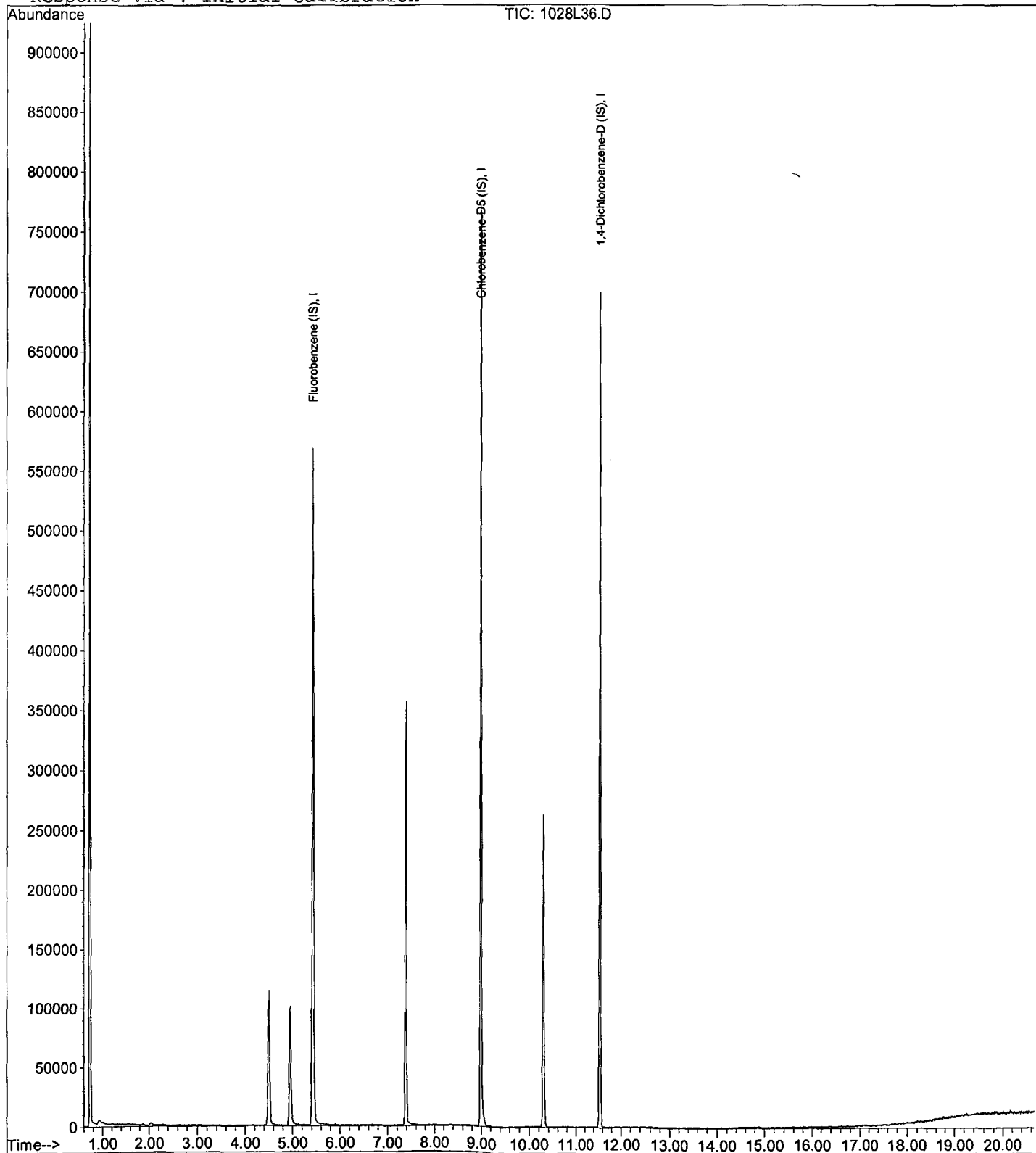
Data File : M:\LOKI\DATA\191023\1028L36.D
Acq On : 29 Oct 19 2:46
Sample : BA01661W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 36
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L34.D Vial: 34
 Acq On : 29 Oct 19 1:49 Operator:
 Sample : BA01662W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	572905	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	779610	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	719177	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L34.D Vial: 34
 Acq On : 29 Oct 19 1:49 Operator:
 Sample : BA01662W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	276096	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	278336	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	132864	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	88333	25.9856	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.944%	
3) 1,2-DCA-D4(S)	4.94	65	100195	27.4328	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.732%	
5) Toluene-D8(S)	7.38	98	267727	26.4353	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.740%	
6) 4-Bromofluorobenzene(S)	10.28	95	88943	24.7945	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.176%	

Target Compounds Qvalue

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

Quantitation Report

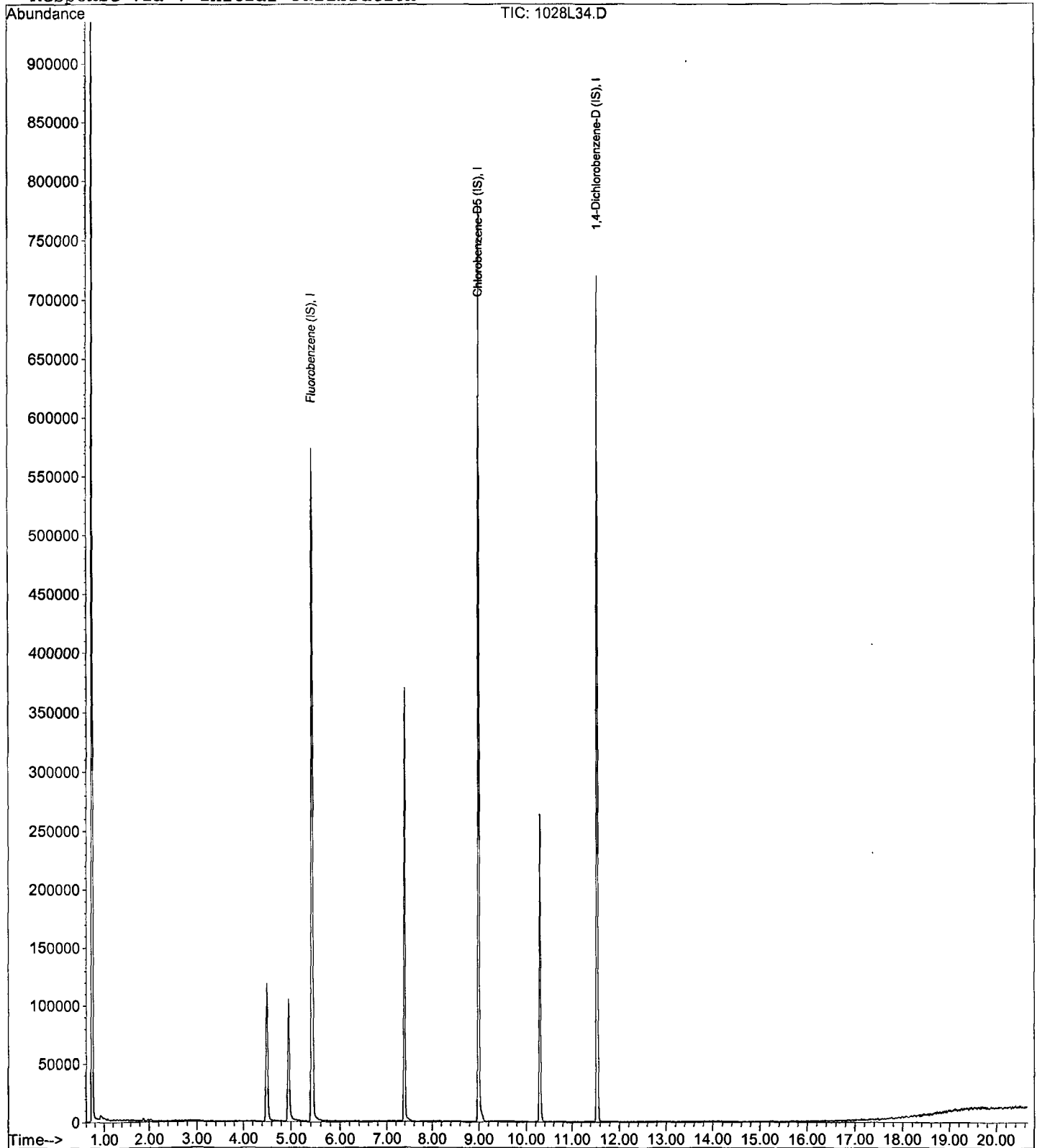
Data File : M:\LOKI\DATA\191023\1028L34.D
Acq On : 29 Oct 19 1:49
Sample : BA01662W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 34
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L37.D Vial: 37
 Acq On : 29 Oct 19 3:14 Operator:
 Sample : BA01663W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	562339	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	771989	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	748502	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L37.D Vial: 37
 Acq On : 29 Oct 19 3:14 Operator:
 Sample : BA01663W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	271808	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274304	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	139456	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86756	25.9243	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.696%	
3) 1,2-DCA-D4(S)	4.95	65	100518	27.9554	ppb	0.00
Spiked Amount				25.000		
					Recovery = 111.820%	
5) Toluene-D8(S)	7.38	98	260644	26.1142	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.456%	
6) 4-Bromofluorobenzene(S)	10.29	95	87153	24.6526	ppb	0.00
Spiked Amount				25.000		
					Recovery = 98.612%	

Target Compounds Qvalue

Quantitation Report

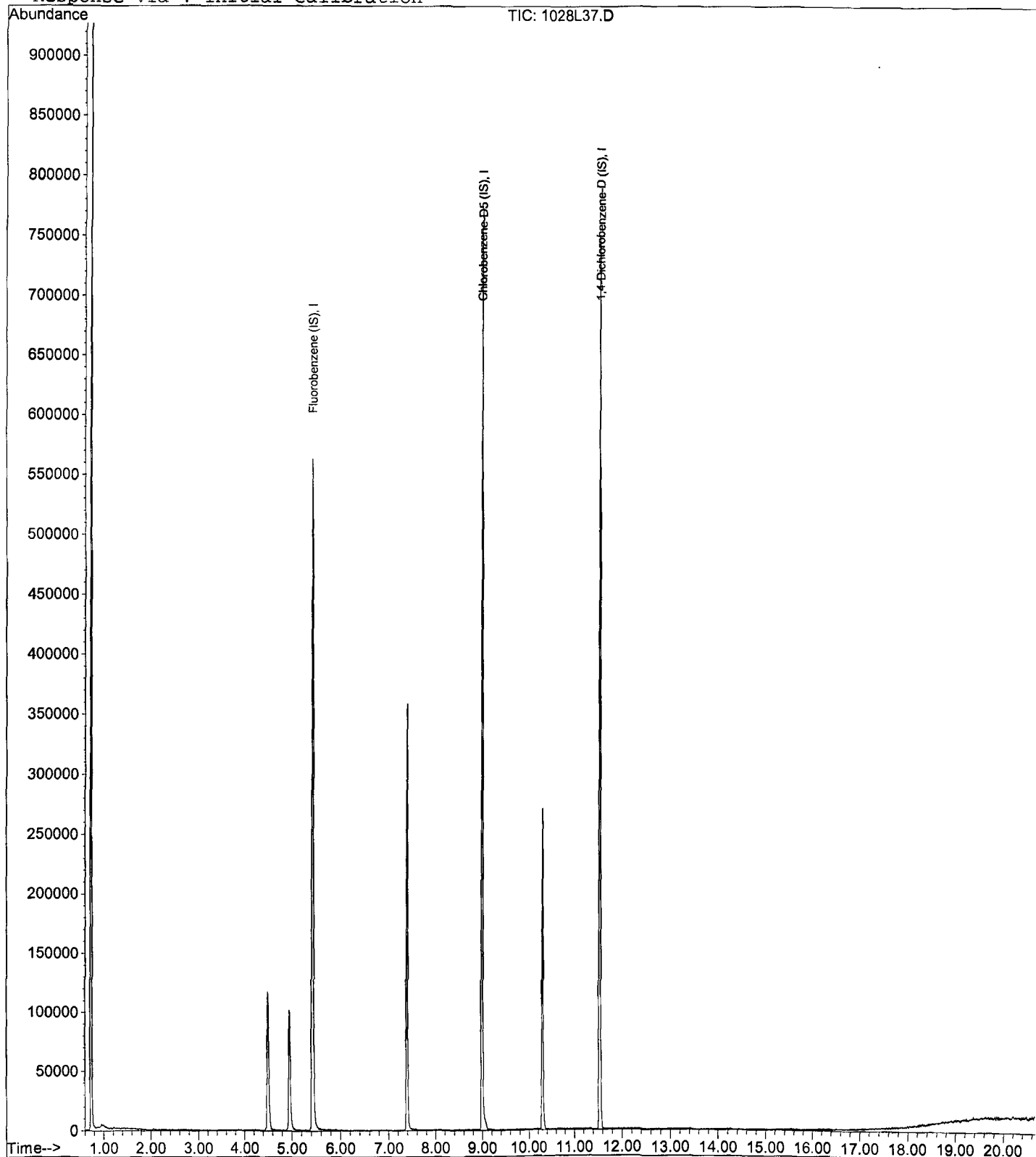
Data File : M:\LOKI\DATA\191023\1028L37.D
Acq On : 29 Oct 19 3:14
Sample : BA01663W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 37
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L35.D Vial: 35
 Acq On : 29 Oct 19 2:17 Operator:
 Sample : BA01664W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	541204	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	726084	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	698680	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L35.D Vial: 35
 Acq On : 29 Oct 19 2:17 Operator:
 Sample : BA01664W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	261312	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	257024	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	130352	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	84592	26.2930	ppb	0.00
Spiked Amount 25.000						
						Recovery = 105.172%
3) 1,2-DCA-D4(S)	4.95	65	96391	27.8844	ppb	0.00
Spiked Amount 25.000						
						Recovery = 111.536%
5) Toluene-D8(S)	7.38	98	249157	26.6416	ppb	0.00
Spiked Amount 25.000						
						Recovery = 106.568%
6) 4-Bromofluorobenzene(S)	10.29	95	85398	25.7802	ppb	0.00
Spiked Amount 25.000						
						Recovery = 103.120%

Target Compounds Qvalue

Quantitation Report

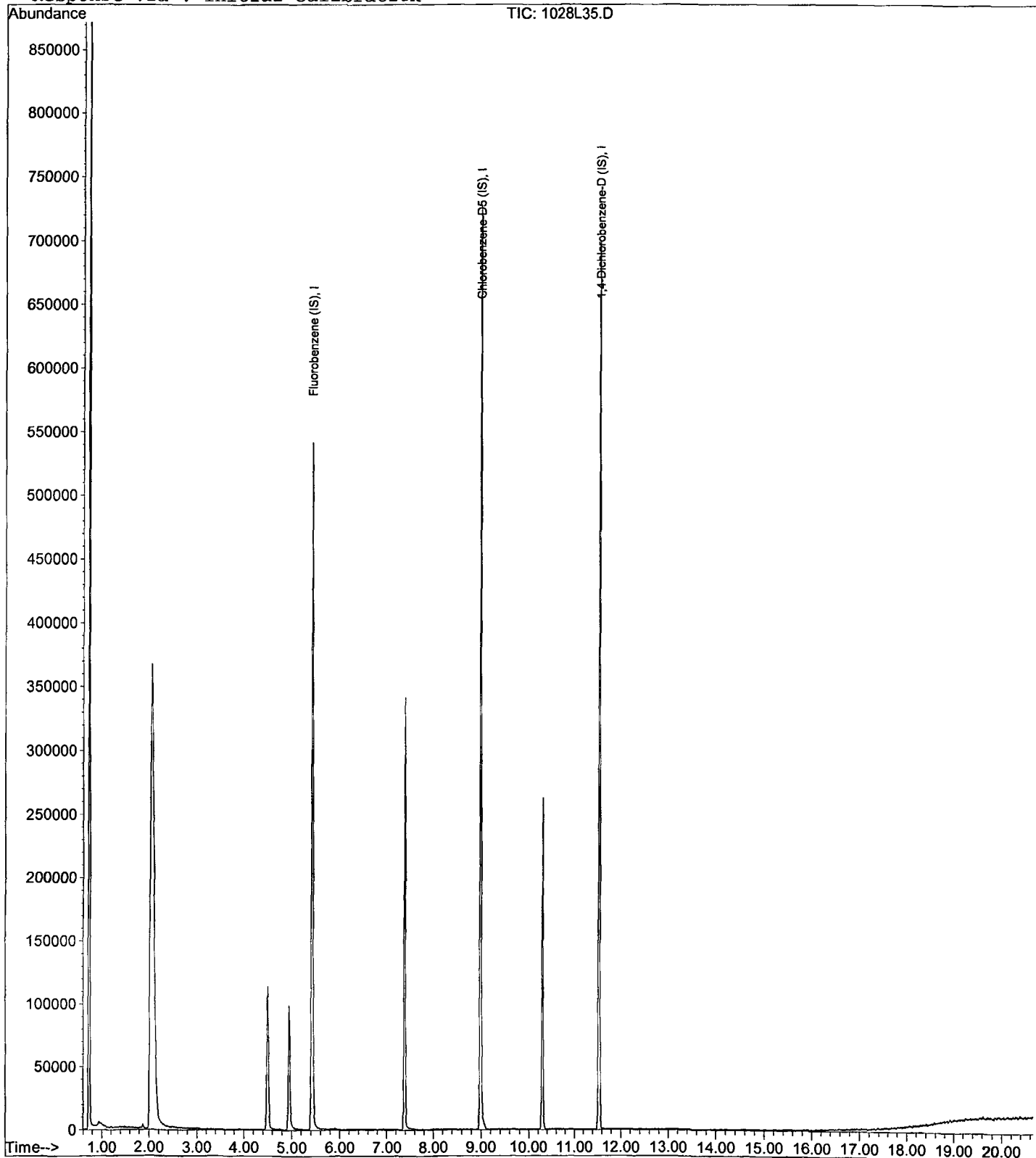
Data File : M:\LOKI\DATA\191023\1028L35.D
Acq On : 29 Oct 19 2:17
Sample : BA01664W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 35
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L08.D Vial: 8
 Acq On : 28 Oct 19 12:59 Operator:
 Sample : 191028A BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	568650	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	699396	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	779584	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L08.D Vial: 8
 Acq On : 28 Oct 19 12:59 Operator:
 Sample : 191028A BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	273344	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.98	117	248256	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	144576	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.49	111	84013	24.9636	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.856%	
3) 1,2-DCA-D4(S)	4.94	65	99495	27.5154	ppb	0.00
Spiked Amount				25.000		
				Recovery =	110.060%	
5) Toluene-D8(S)	7.38	98	243888	26.9993	ppb	0.00
Spiked Amount				25.000		
				Recovery =	107.996%	
6) 4-Bromofluorobenzene(S)	10.28	95	86768	27.1189	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.476%	

Target Compounds Qvalue

Quantitation Report

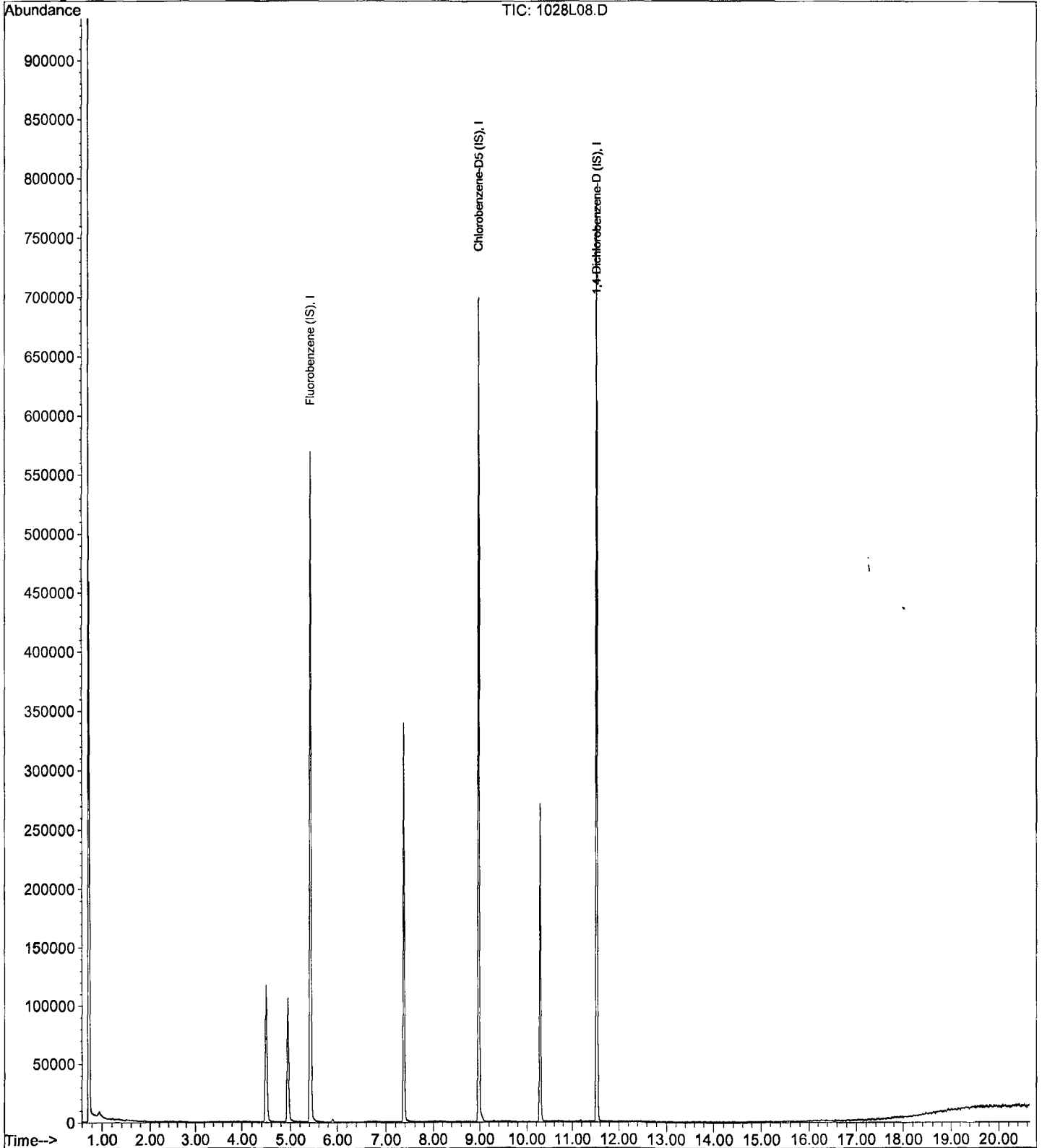
Data File : M:\LOKI\DATA\191023\1028L08.D
Acq On : 28 Oct 19 12:59
Sample : 191028A BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:46 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L27.D Vial: 27
 Acq On : 28 Oct 19 22:30 Operator:
 Sample : 191028B BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.42	TIC	581928	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	774929	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	742797	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue .

Data File : M:\LOKI\DATA\191023\1028L27.D Vial: 27
 Acq On : 28 Oct 19 22:30 Operator:
 Sample : 191028B BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283200	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274752	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	138880	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87049	24.9655	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	99.864%
3) 1,2-DCA-D4(S)	4.95	65	100947	26.9454	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	107.780%
5) Toluene-D8(S)	7.38	98	265753	26.5827	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	106.332%
6) 4-Bromofluorobenzene(S)	10.29	95	90992	25.6966	ppb	0.00
Spiked Amount				25.000		
				Recovery	=	102.788%

Target Compounds Qvalue

Quantitation Report

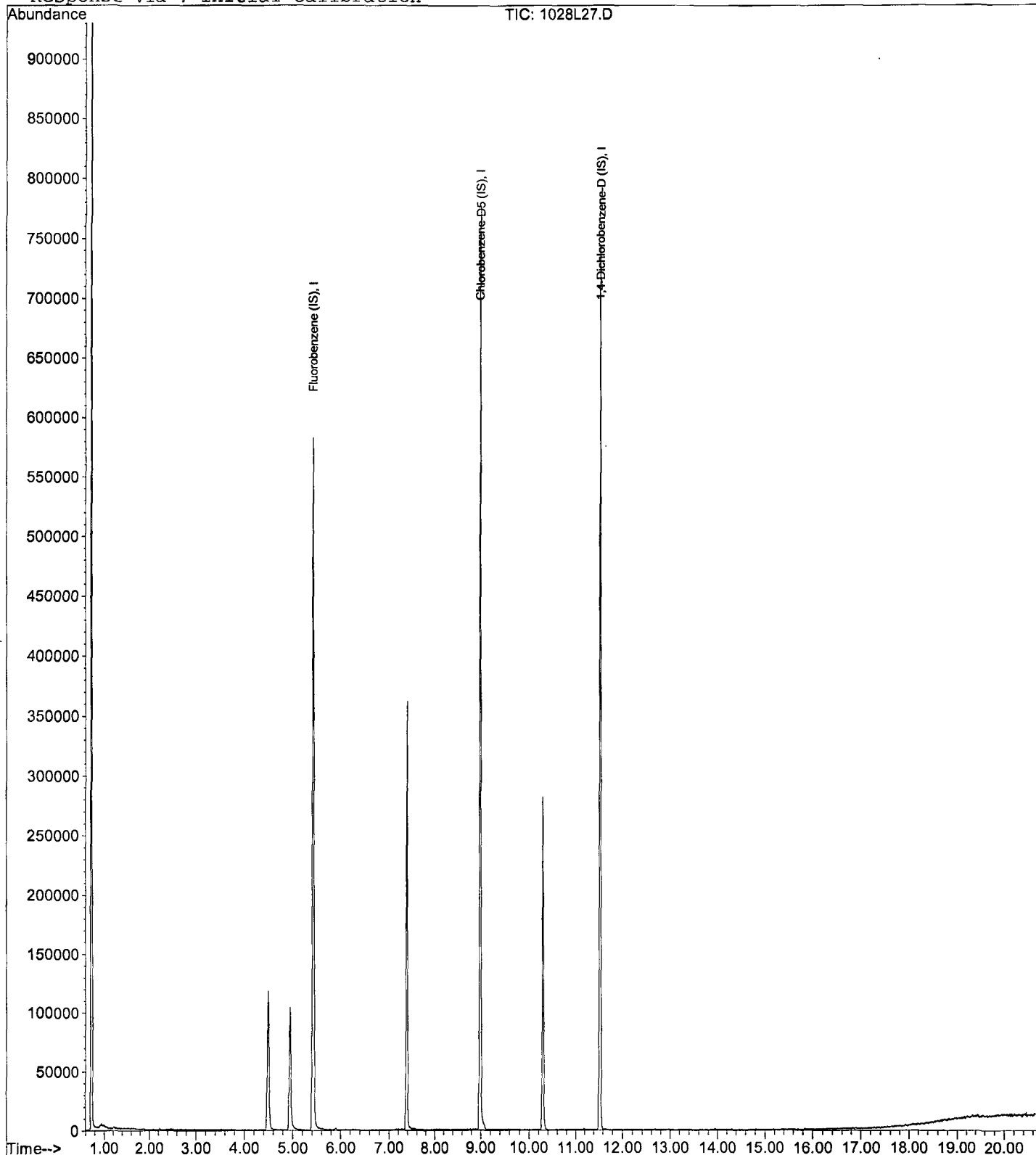
Data File : M:\LOKI\DATA\191023\1028L27.D
Acq On : 28 Oct 19 22:30
Sample : 191028B BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L06.D Vial: 6
 Acq On : 28 Oct 19 8:46 Operator:
 Sample : 191028A LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 12:05 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	566780	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	780801	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	772081	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5950814m	303.1057	ppb	100

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

Data File : M:\LOKI\DATA\191023\1028L06.D Vial: 6
 Acq On : 28 Oct 19 8:46 Operator:
 Sample : 191028A LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	272960	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	277696	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	144896	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	84645	25.1867	ppb	0.00
Spiked Amount				25.000		
				Recovery = 100.748%		
3) 1,2-DCA-D4(S)	4.95	65	99230	27.4807	ppb	0.00
Spiked Amount				25.000		
				Recovery = 109.924%		
5) Toluene-D8(S)	7.38	98	269402	26.6620	ppb	0.00
Spiked Amount				25.000		
				Recovery = 106.648%		
6) 4-Bromofluorobenzene(S)	10.28	95	95586	26.7078	ppb	0.00
Spiked Amount				25.000		
				Recovery = 106.832%		

Target Compounds Qvalue

Quantitation Report

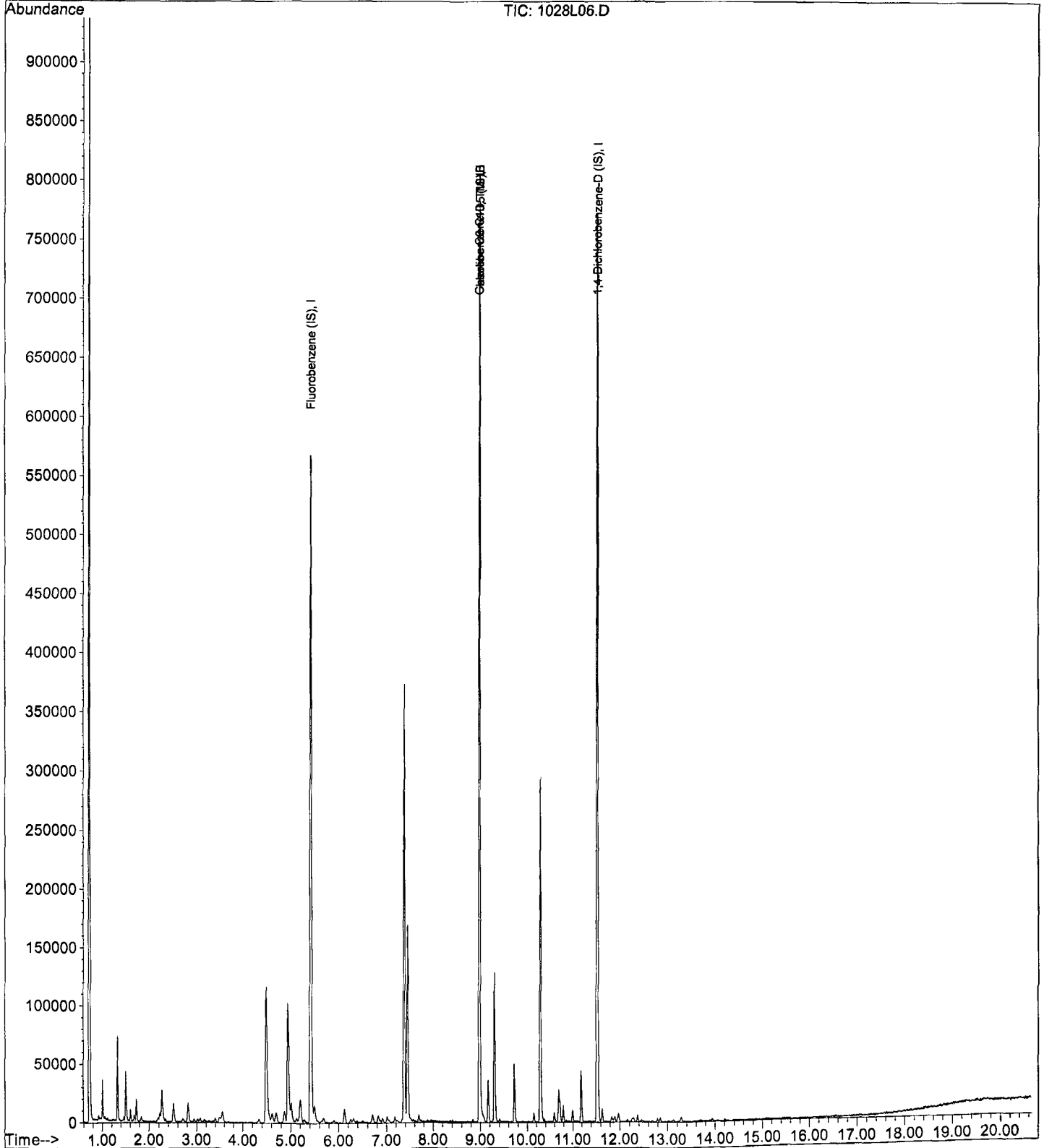
Data File : M:\LOKI\DATA\191023\1028L06.D
Acq On : 28 Oct 19 8:46
Sample : 191028A LCS 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 12:05 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L25.D Vial: 25
 Acq On : 28 Oct 19 21:33 Operator:
 Sample : 191028B LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	592723	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	784350	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	815034	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6197033m	298.3985	ppb	100

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

Data File : M:\LOKI\DATA\191023\1028L25.D Vial: 25
 Acq On : 28 Oct 19 21:33 Operator:
 Sample : 191028B LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	288640	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	279808	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	151680	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87788	24.7029	ppb	0.00
Spiked Amount 25.000			Recovery =	98.812%		
3) 1,2-DCA-D4 (S)	4.95	65	100647	26.3590	ppb	0.00
Spiked Amount 25.000			Recovery =	105.436%		
5) Toluene-D8 (S)	7.38	98	276231	27.1315	ppb	0.00
Spiked Amount 25.000			Recovery =	108.528%		
6) 4-Bromofluorobenzene(S)	10.28	95	96961	26.8875	ppb	0.00
Spiked Amount 25.000			Recovery =	107.548%		

Target Compounds Qvalue

Quantitation Report

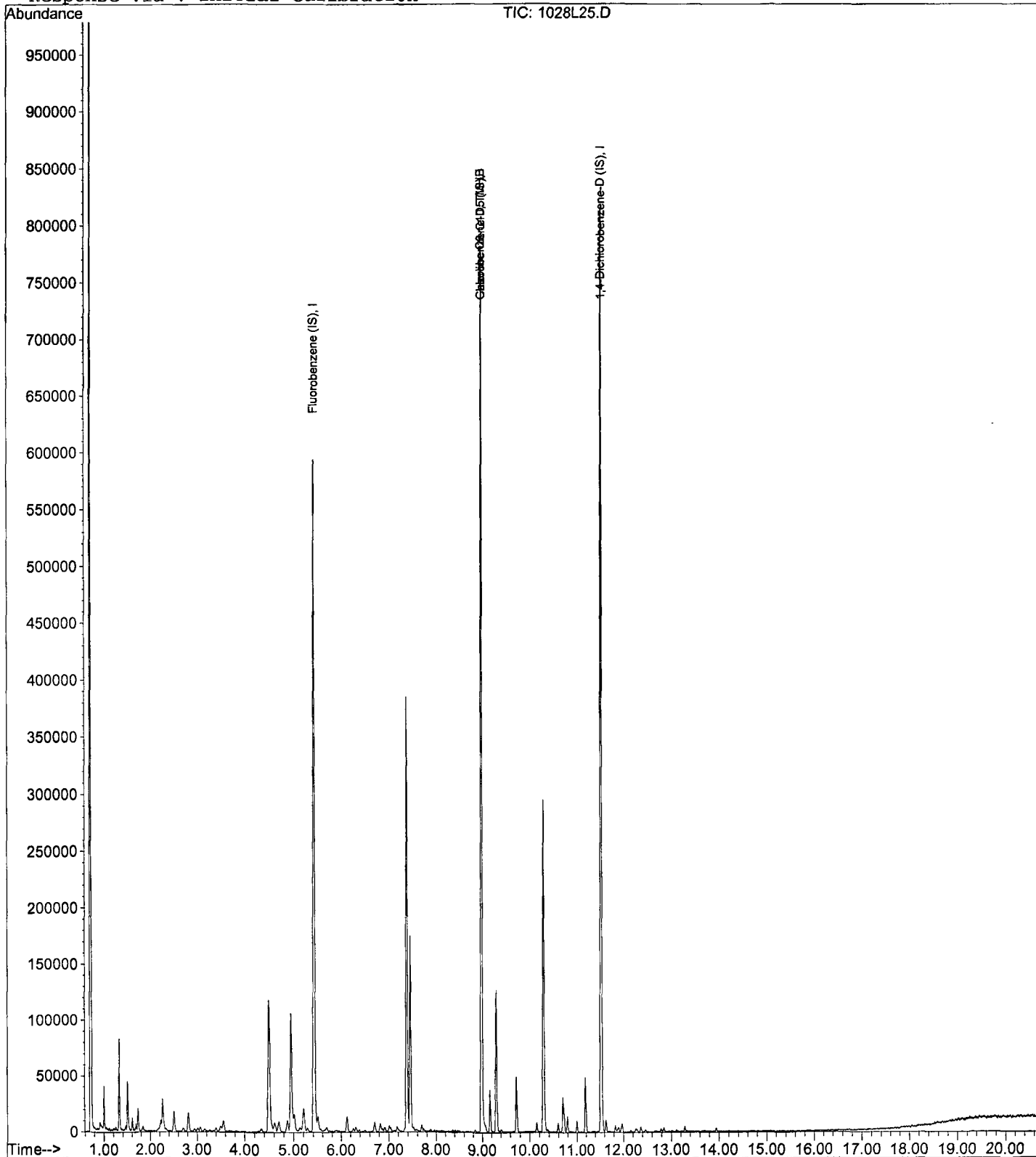
Data File : M:\LOKI\DATA\191023\1028L25.D
Acq On : 28 Oct 19 21:33
Sample : 191028B LCS 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 25
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L07.D Vial: 7
 Acq On : 28 Oct 19 9:14 Operator:
 Sample : 191028A LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 12:06 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	599631	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	803313	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	802645	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6217450m	289.1856	ppb	100

Data File : M:\LOKI\DATA\191023\1028L07.D Vial: 7
 Acq On : 28 Oct 19 9:14 Operator:
 Sample : 191028A LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:46 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	290560	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	285056	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	151936	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.49	111	89316	24.9668	ppb	0.00
Spiked Amount				25.000		
				Recovery =	99.868%	
3) 1,2-DCA-D4(S)	4.95	65	103303	26.8758	ppb	0.00
Spiked Amount				25.000		
				Recovery =	107.504%	
5) Toluene-D8(S)	7.38	98	283406	27.3238	ppb	0.00
Spiked Amount				25.000		
				Recovery =	109.296%	
6) 4-Bromofluorobenzene(S)	10.28	95	100718	27.4151	ppb	0.00
Spiked Amount				25.000		
				Recovery =	109.660%	

Target Compounds Qvalue

Quantitation Report

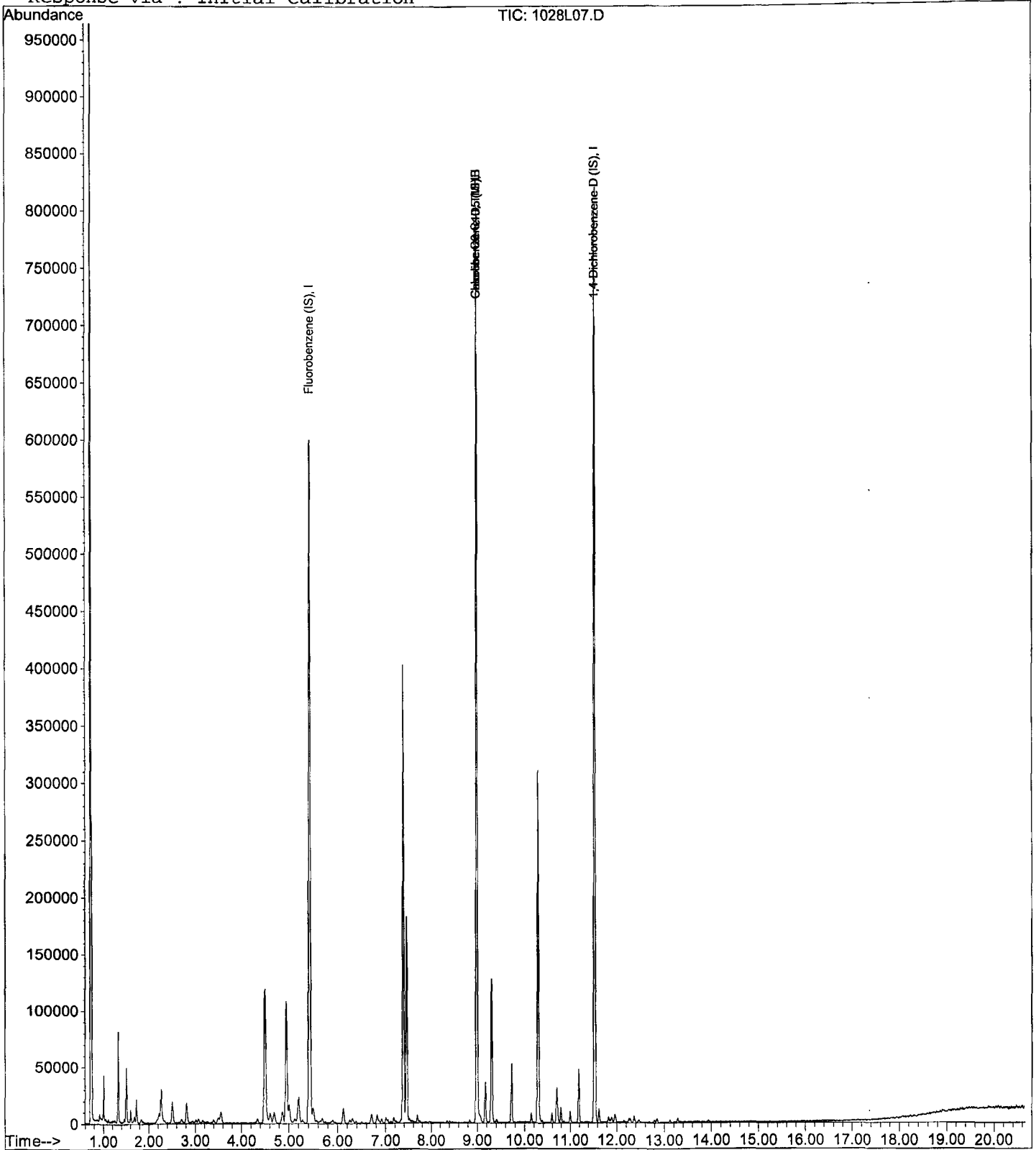
Data File : M:\LOKI\DATA\191023\1028L07.D
Acq On : 28 Oct 19 9:14
Sample : 191028A LCSD 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 12:06 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L26.D Vial: 26
 Acq On : 28 Oct 19 22:02 Operator:
 Sample : 191028B LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	618205	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	838431	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	813030	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6415442m	290.1173	ppb	100

Data File : M:\LOKI\DATA\191023\1028L26.D Vial: 26
 Acq On : 28 Oct 19 22:02 Operator:
 Sample : 191028B LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	298880	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	299776	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	150784	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	88580	24.0718	ppb	0.00
Spiked Amount				25.000		
				Recovery =	96.288%	
3) 1,2-DCA-D4(S)	4.95	65	102916	26.0297	ppb	0.00
Spiked Amount				25.000		
				Recovery =	104.120%	
5) Toluene-D8(S)	7.38	98	282430	25.8926	ppb	0.00
Spiked Amount				25.000		
				Recovery =	103.572%	
6) 4-Bromofluorobenzene(S)	10.28	95	97667	25.2792	ppb	0.00
Spiked Amount				25.000		
				Recovery =	101.116%	

Target Compounds Qvalue

Quantitation Report

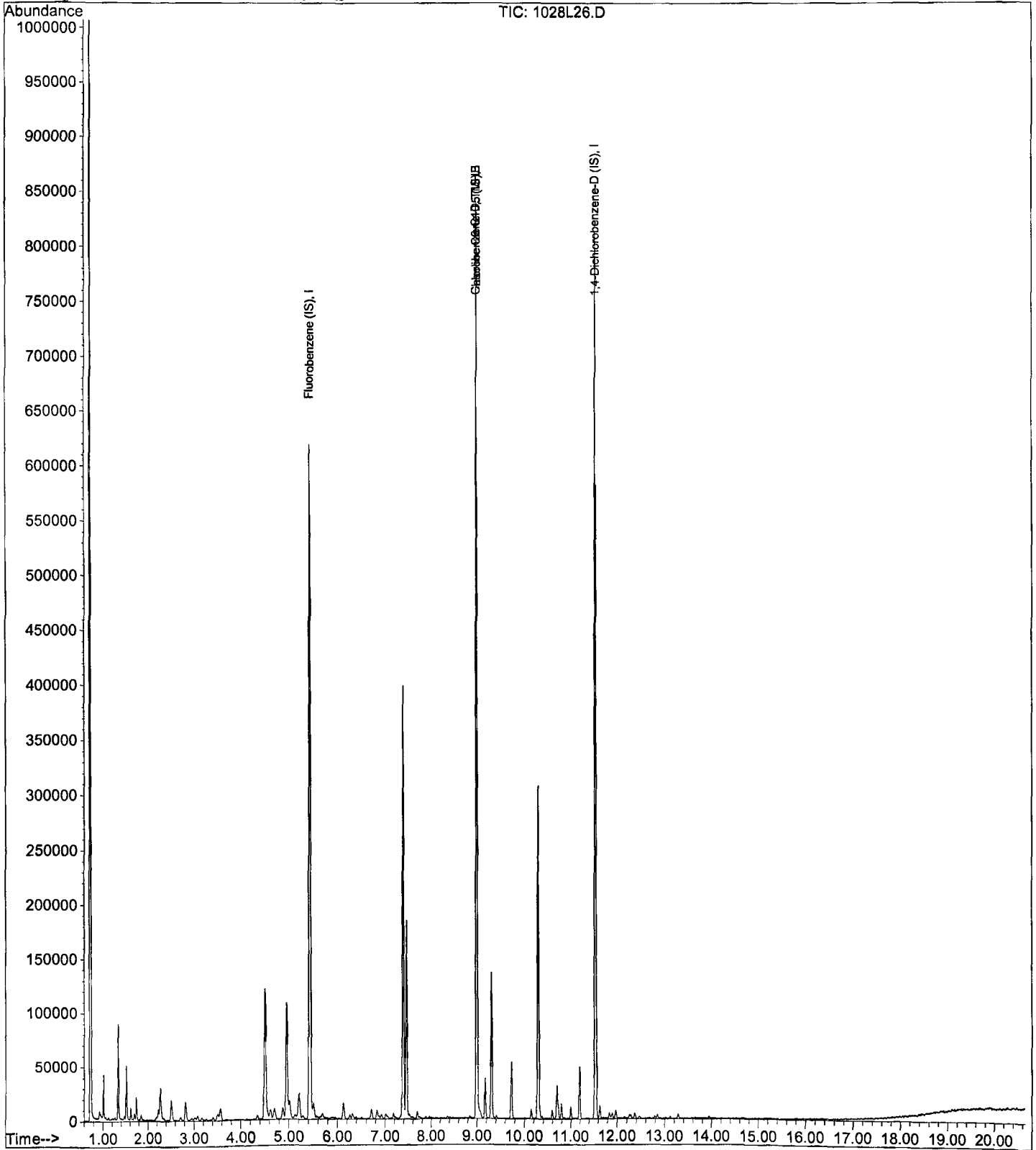
Data File : M:\LOKI\DATA\191023\1028L26.D
Acq On : 28 Oct 19 22:02
Sample : 191028B LCSD 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Injection Log

Directory: M:\LOKI\DATA\191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
6	1023L10.D	1	0.3ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:30
7	1023L11.D	1	0.5ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:59
8	1023L12.D	1	1.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:27
9	1023L13.D	1	2.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:56
10	1023L14.D	1	5.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:24
11	1023L15.D	1	10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:53
12	1023L16.D	1	20ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:21
13	1023L17.D	1	40ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:50
14	1023L18.D	1	100ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 23:18
50	1026L50.D	1	20ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 6:07
51	1026L51.D	1	50ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 6:36
52	1026L52.D	1	100ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 7:04
53	1026L53.D	1	300ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 7:32
54	1026L54.D	1	600ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:01
55	1026L55.D	1	800ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:29
56	1026L56.D	1	1000ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:58
5	1028L05.D	1	191028A CCV 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 8:17
6	1028L06.D	1	191028A LCS 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 8:46
7	1028L07.D	1	191028A LCSD 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 9:14
8	1028L08.D	1	191028A BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 12:59
9	1028L09.D	1	(SS) 300ug/L GAS STD 10/28/19	IS&S:10/7/19, 10/23/19	28 Oct 19 13:58
10	1028L10.D	1	BA01653W01	IS&S:10/7/19, 10/23/19	28 Oct 19 14:26
11	1028L11.D	1	BA01657W01	IS&S:10/7/19, 10/23/19	28 Oct 19 14:54
12	1028L12.D	1	BA01650W01	IS&S:10/7/19, 10/23/19	28 Oct 19 15:23
13	1028L13.D	1	BA01651W01	IS&S:10/7/19, 10/23/19	28 Oct 19 15:51
14	1028L14.D	1	BA01652W01	IS&S:10/7/19, 10/23/19	28 Oct 19 16:20
15	1028L15.D	1	BA01654W01	IS&S:10/7/19, 10/23/19	28 Oct 19 16:48
16	1028L16.D	1	BA01655W01	IS&S:10/7/19, 10/23/19	28 Oct 19 17:17
17	1028L17.D	1	BA01656W01	IS&S:10/7/19, 10/23/19	28 Oct 19 17:45
19	1028L19.D	1	Ending CCV 300ug/L 10/28/19	IS&S:10/7/19, 10/23/19	28 Oct 19 18:42
24	1028L24.D	1	191028B CCV 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 21:05
25	1028L25.D	1	191028B LCS 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 21:33
26	1028L26.D	1	191028B LCSD 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 22:02
27	1028L27.D	1	191028B BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 22:30
32	1028L32.D	1	BA01658W01	IS&S:10/7/19, 10/23/19	29 Oct 19 00:52
33	1028L33.D	1	BA01660W01	IS&S:10/7/19, 10/23/19	29 Oct 19 1:21
34	1028L34.D	1	BA01662W01	IS&S:10/7/19, 10/23/19	29 Oct 19 1:49
35	1028L35.D	1	BA01664W01	IS&S:10/7/19, 10/23/19	29 Oct 19 2:17
36	1028L36.D	1	BA01661W01	IS&S:10/7/19, 10/23/19	29 Oct 19 2:46
37	1028L37.D	1	BA01663W01	IS&S:10/7/19, 10/23/19	29 Oct 19 3:14
38	1028L38.D	1	BA01659W01	IS&S:10/7/19, 10/23/19	29 Oct 19 3:43
46	1028L46.D	1	Ending CCV 300ug/L 10/28/19	IS&S:10/7/19, 10/23/19	29 Oct 19 7:30

**ORGANICS
Calibration Data**

RSK 175
RSK 175

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/02/19
Instrument: 7890

Initials: _____

1002R02.D 1002R03.D 1002R04.D 1002R05.D 1002R06.D 1002R07.D 1002R08.D

		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r ²	Q
1	ATM	Methane	63820	40452	36215	45202	48427	44031	45774				46274	19	ATM		
2	ATM	Ethane	42546	31037	26553	34655	37738	32771	32974				34039	15	ATM		
3	ATM	Ethene	32900	24299	20841	27689	29847	25551	26297				26775	15	ATM		
4																	
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1.377886

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R02.D Vial: 2
 Acq On : 2 Oct 19 17:45 Operator: GA
 Sample : RSK STD 1 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

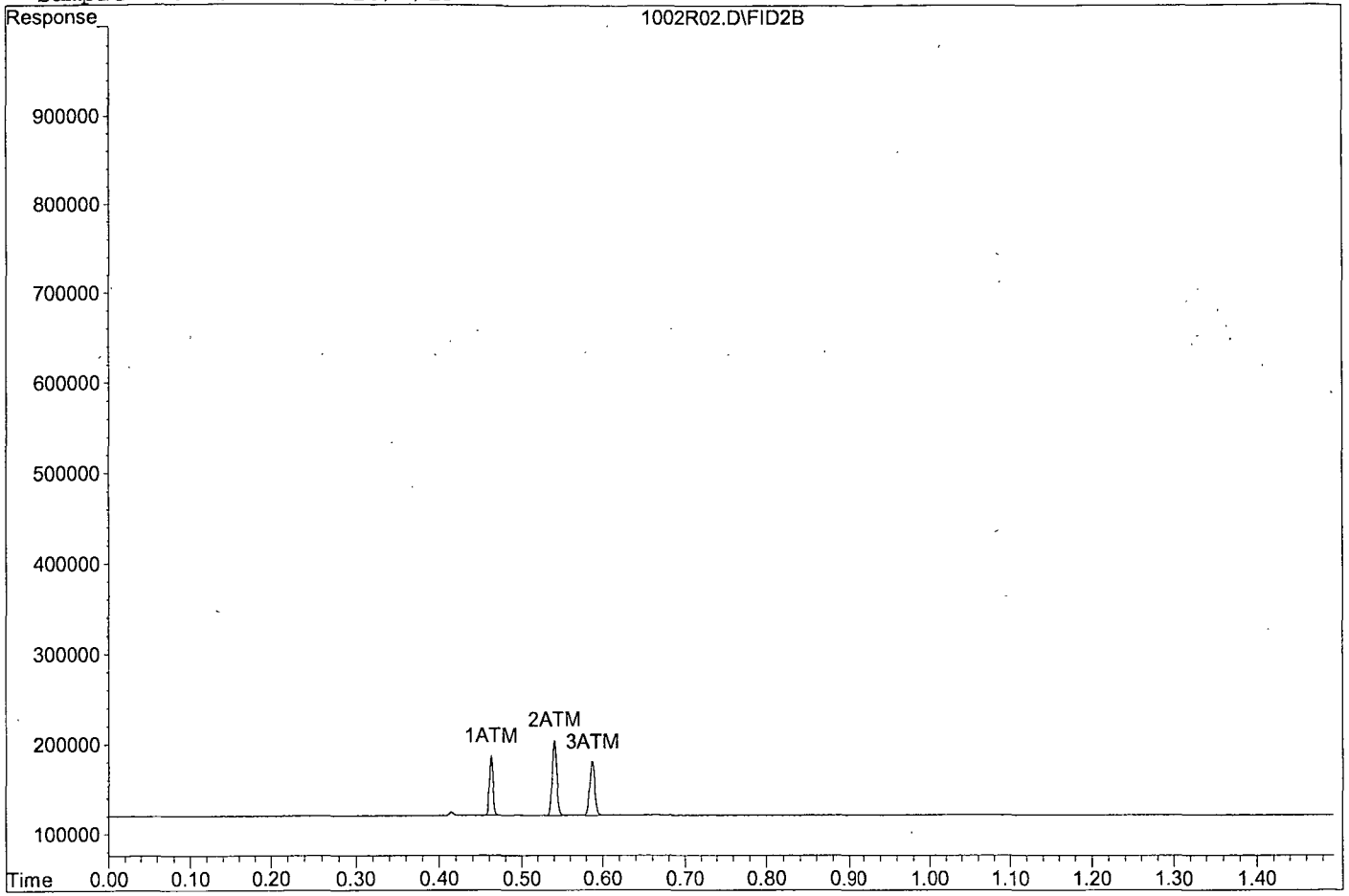
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	66373	8.306 ppb
2) ATM Ethane	0.54	83177	6.216 ppb
3) ATM Ethene	0.59	60042	5.640 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R02.D
Sample : RSK STD 1 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R03.D Vial: 3
 Acq On : 2 Oct 19 17:50 Operator: GA
 Sample : RSK STD 2 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

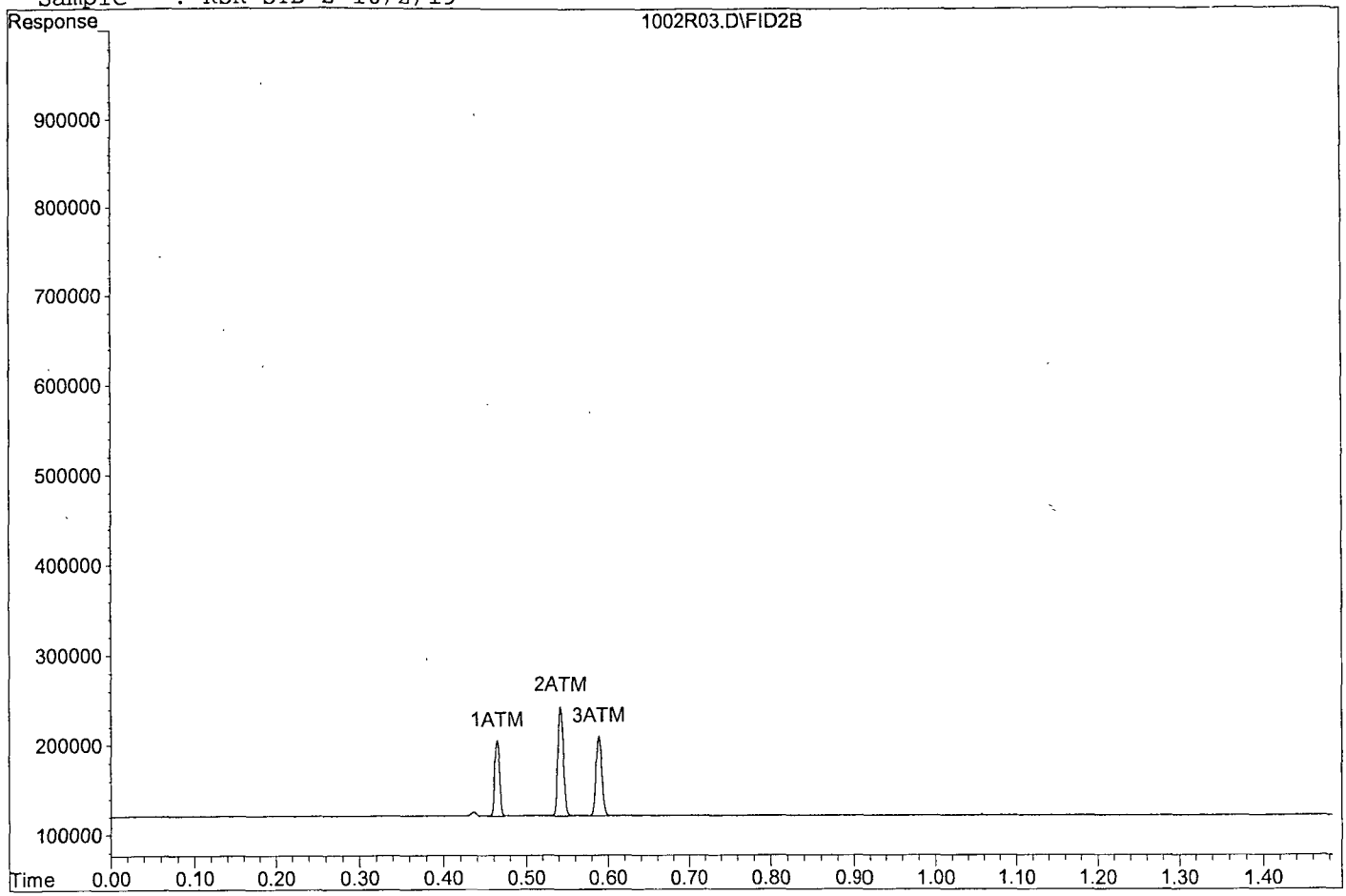
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	84140	9.332 ppb
2) ATM Ethane	0.54	121200	9.058 ppb
3) ATM Ethene	0.59	88693	8.332 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R03.D
Sample : RSK STD 2 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R04.D Vial: 4
 Acq On : 2 Oct 19 17:52 Operator: GA
 Sample : RSK STD 3 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

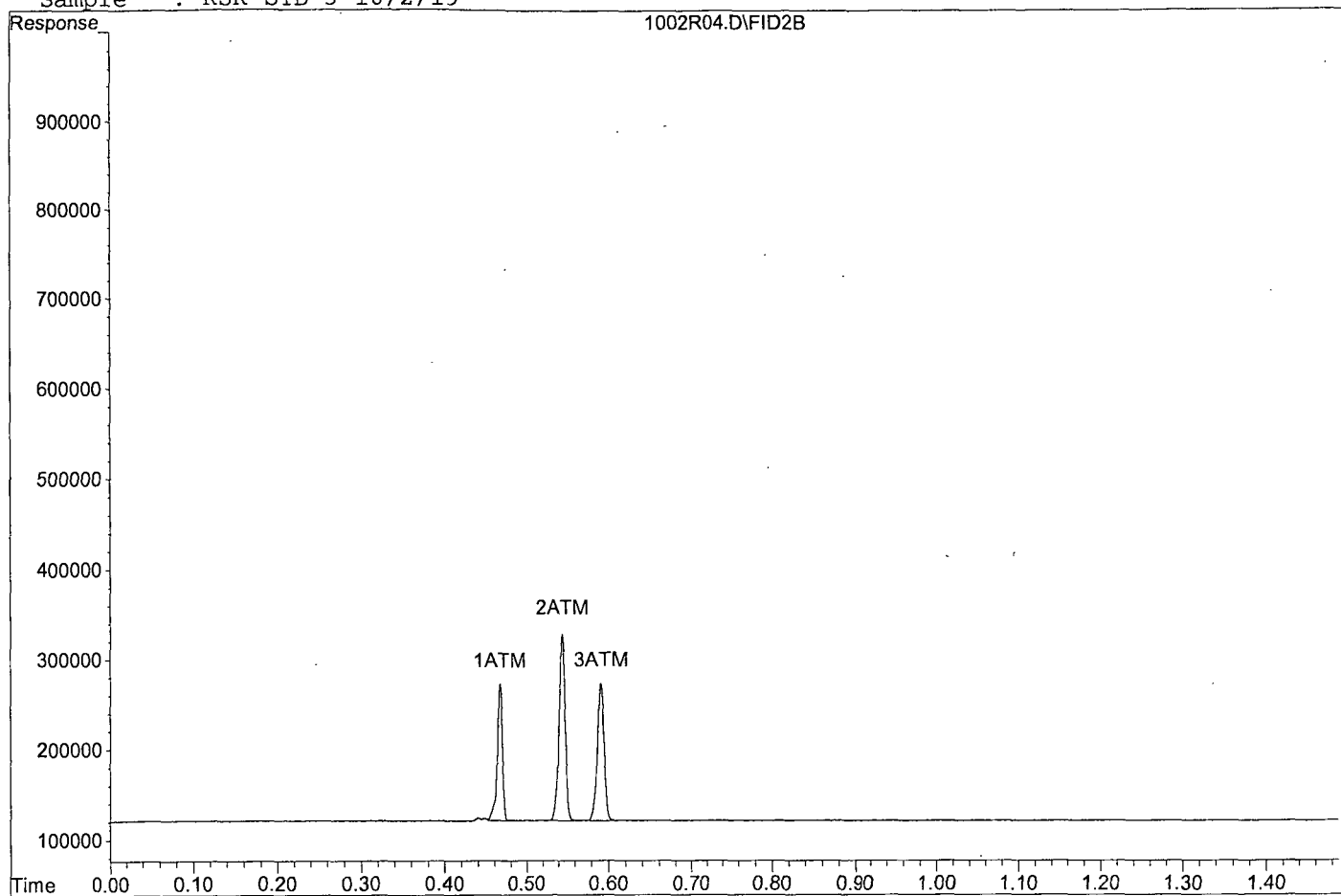
Target Compounds			
1) ATM Methane	0.47	151018	13.195 ppb
2) ATM Ethane	0.55	207113	15.479 ppb
3) ATM Ethene	0.59	152138	14.292 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R04.D

Sample : RSK STD 3 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R05.D Vial: 5
 Acq On : 2 Oct 19 17:57 Operator: GA
 Sample : RSK STD 4 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

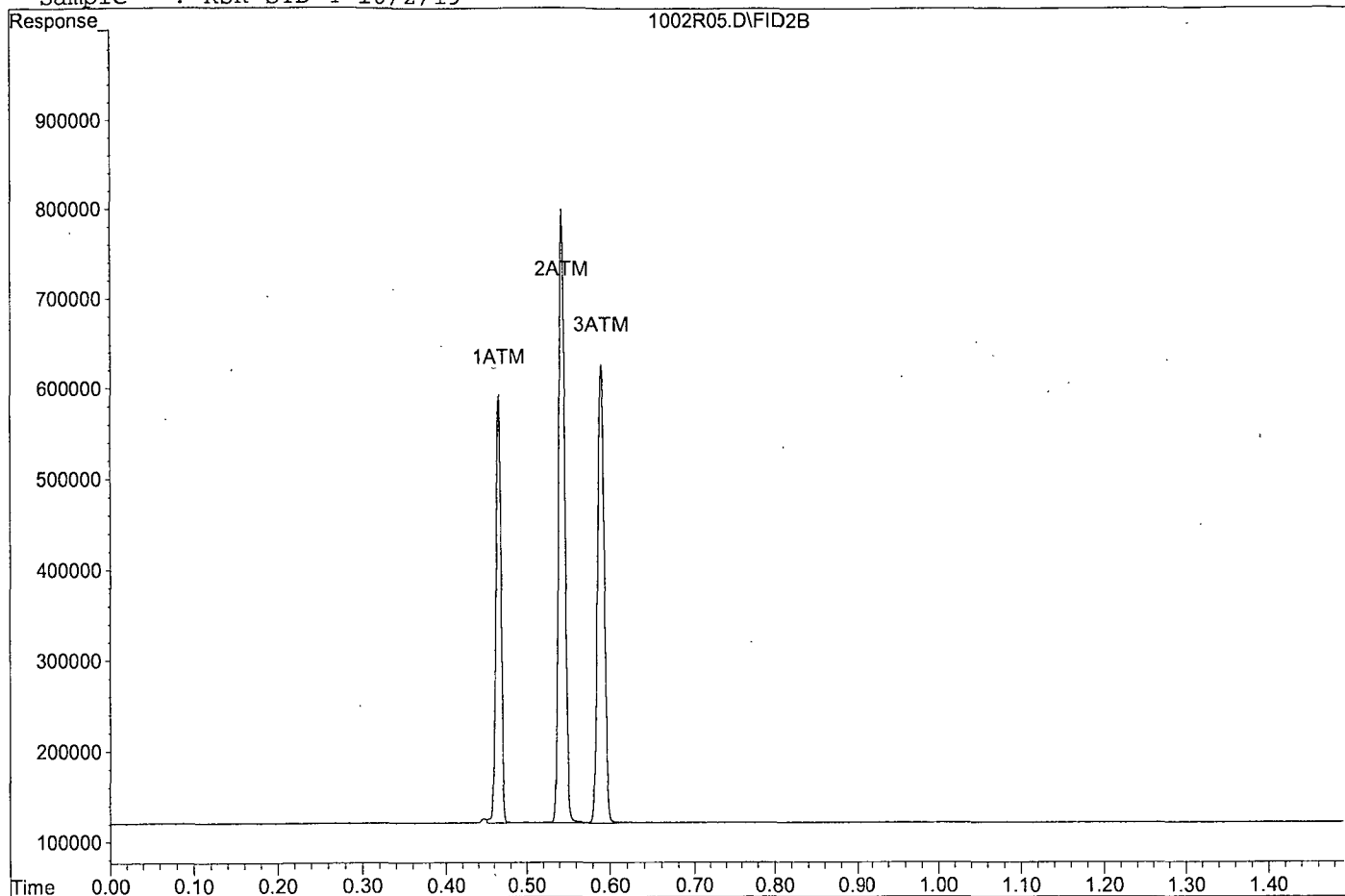
Target Compounds			
1) ATM Methane	0.47	471234	31.689 ppb
2) ATM Ethane	0.54	677330	50.623 ppb
3) ATM Ethene	0.59	504779	47.419 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R05.D

Sample : RSK STD 4 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R06.D Vial: 6
 Acq On : 2 Oct 19 17:59 Operator: GA
 Sample : RSK STD 5 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

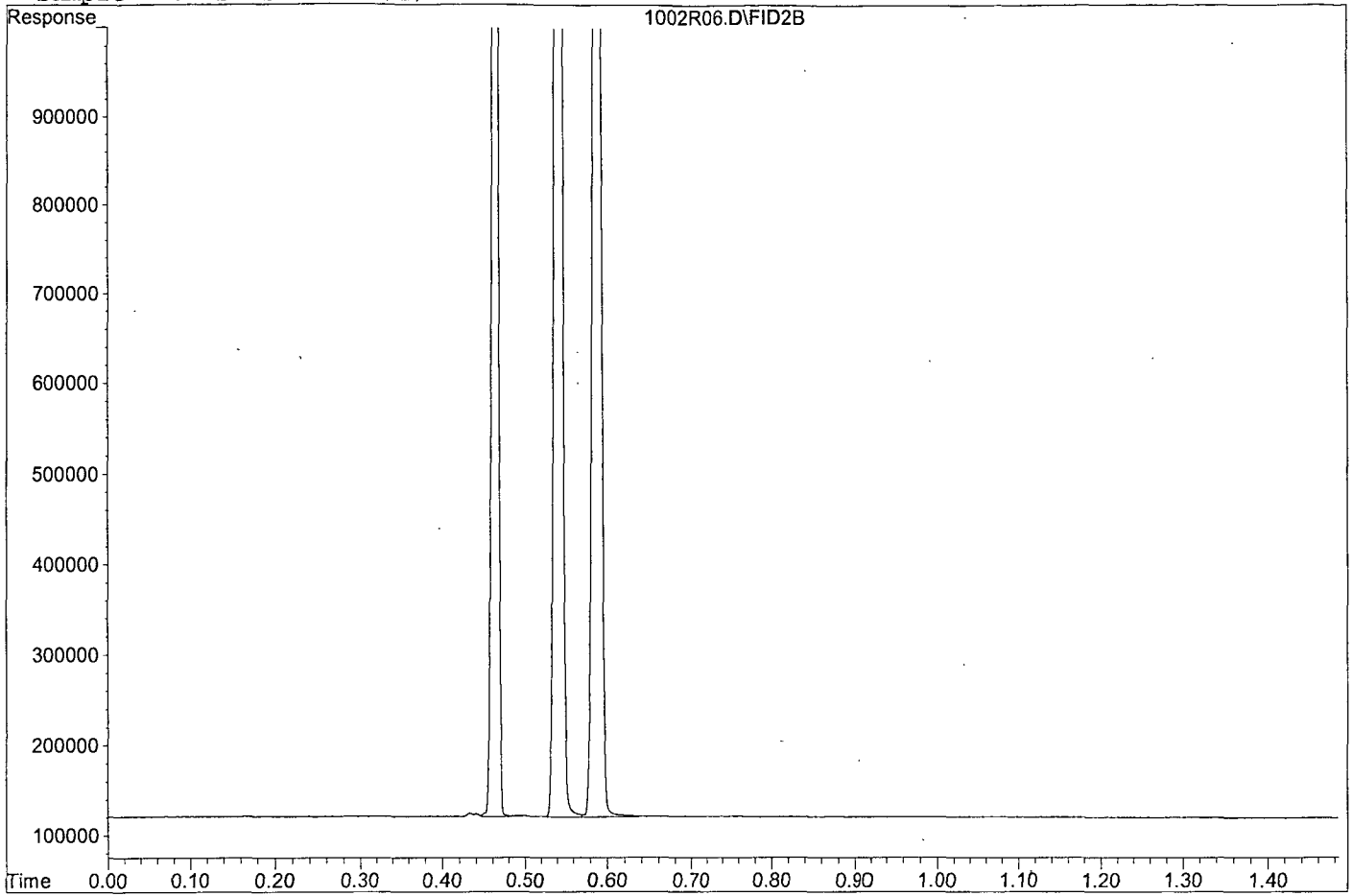
Target Compounds			
1) ATM Methane	0.46	2019402	121.105 ppb
2) ATM Ethane	0.54	2950189	220.492 ppb
3) ATM Ethene	0.59	2176445	204.454 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R06.D

Sample : RSK STD 5 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R07.D Vial: 7
 Acq On : 2 Oct 19 18:05 Operator: GA
 Sample : RSK STD 6 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

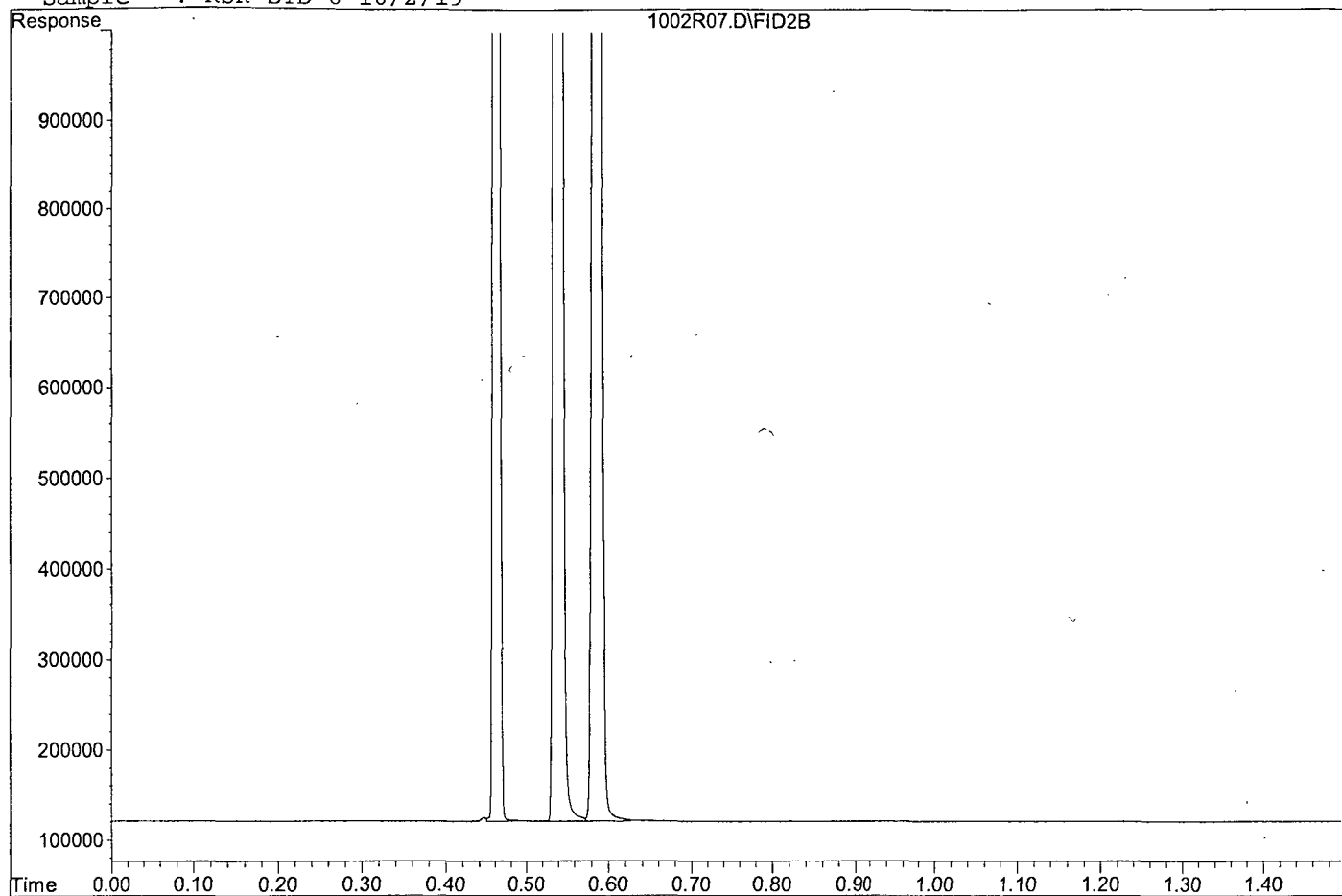
Target Compounds			
1) ATM Methane	0.46	4590194	269.583 ppb
2) ATM Ethane	0.54	6405030	478.702 ppb
3) ATM Ethene	0.59	4657966	437.567 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R07.D

Sample : RSK STD 6 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R08.D Vial: 8
 Acq On : 2 Oct 19 18:07 Operator: GA
 Sample : RSK STD 7 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

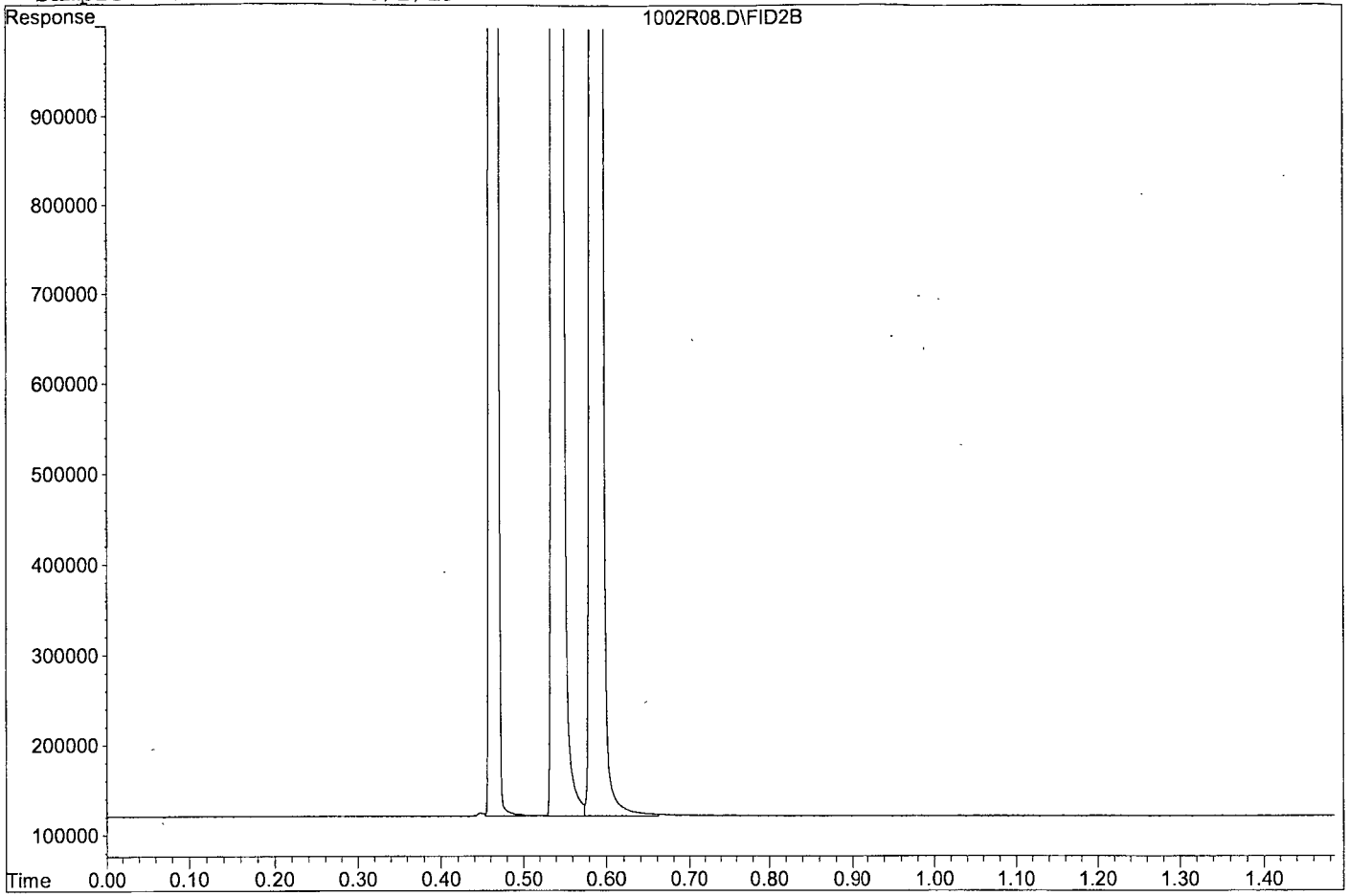
Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

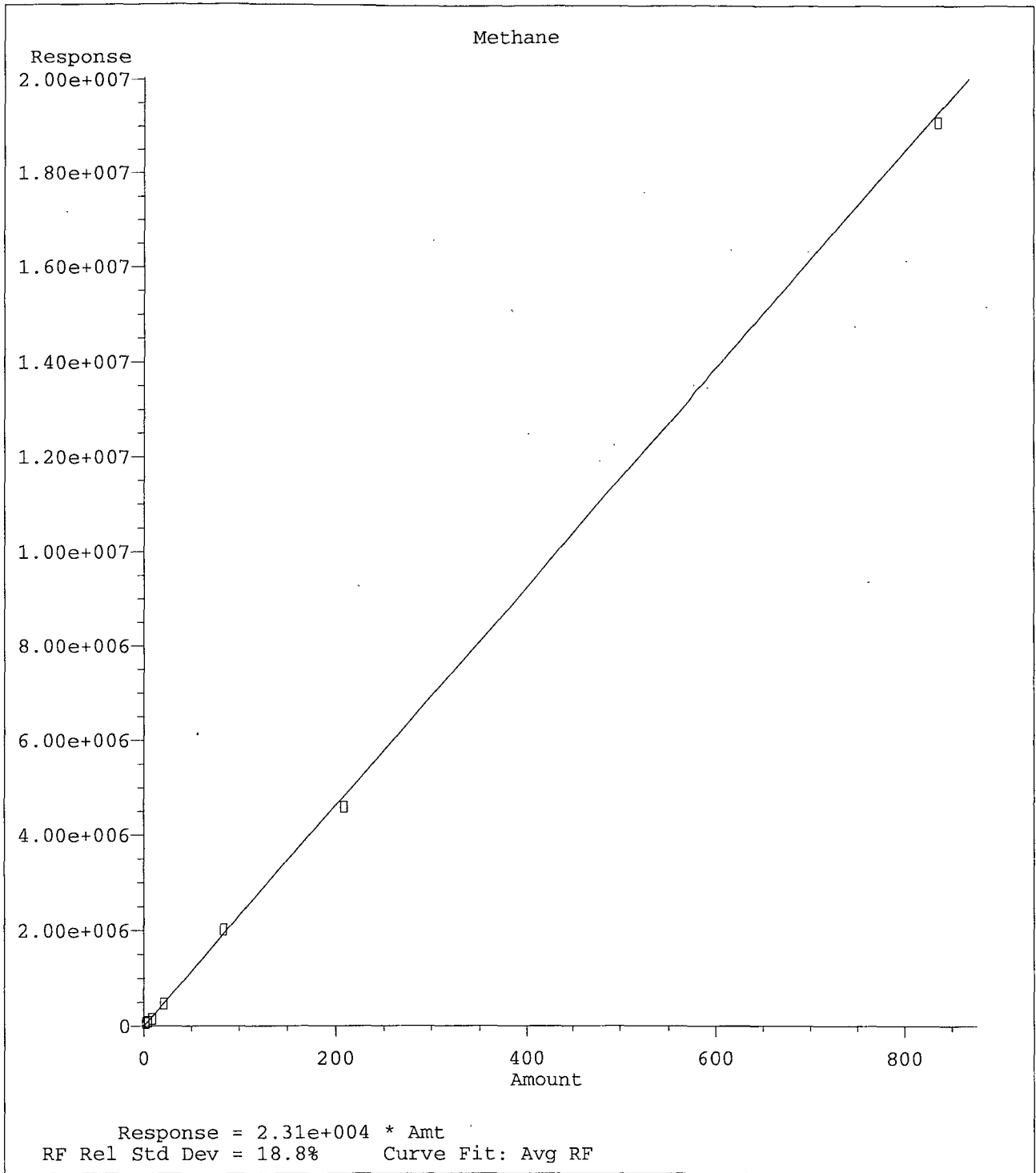
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	19087907	1106.909 ppb
2) ATM Ethane	0.54	25777712	1926.584 ppb
3) ATM Ethene	0.59	19176068	1801.389 ppb
Target Compounds			

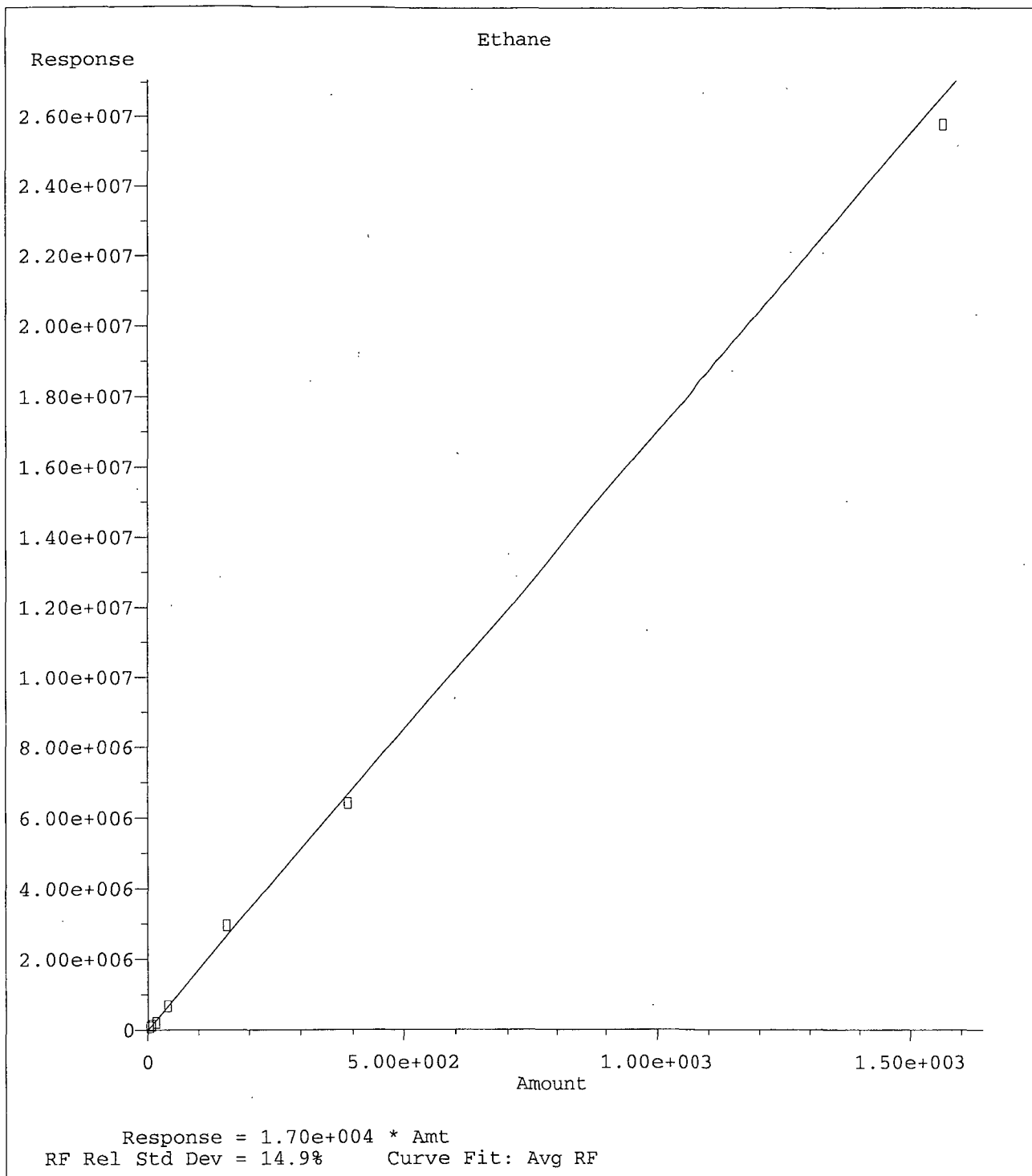
Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R08.D
Sample : RSK STD 7 10/2/19

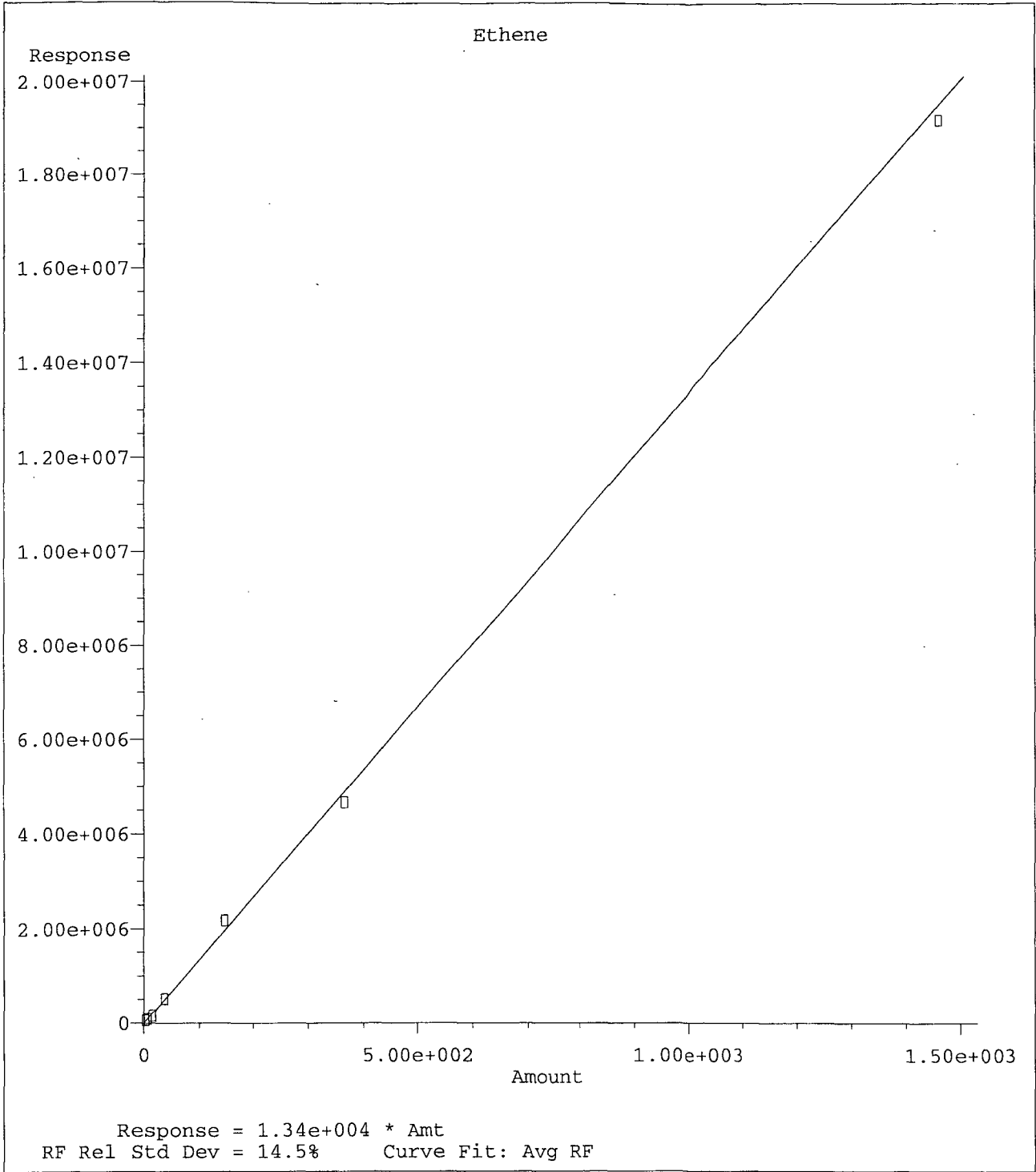




Method Name: G:\ROCKY\DATA\190929RS\RSK1002.M
Calibration Table Last Updated: Wed Oct 02 18:14:49 2019



Method Name: G:\ROCKY\DATA\190929RS\RSK1002.M
Calibration Table Last Updated: Wed Oct 02 18:14:49 2019



Method Name: G:\ROCKY\DATA\190929RS\RSK1002.M
Calibration Table Last Updated: Wed Oct 02 18:14:49 2019

RSK 175
RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 2 Oct 19 18:24

Matrix: _____

Instrument: 7890

Initial Cal. Date: 10/02/19

Data File: 1002R10.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	50203	8.5	ATM
2	ATM	Ethane	34039	37011	8.7	ATM
3	ATM	Ethene	26775	28699	7.2	ATM
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Average

8.1

Data File : G:\ROCKY\DATA\191002RS\1002R10.D Vial: 10
 Acq On : 2 Oct 19 18:24 Operator: GA
 Sample : SS RSK STD 5 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:27 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

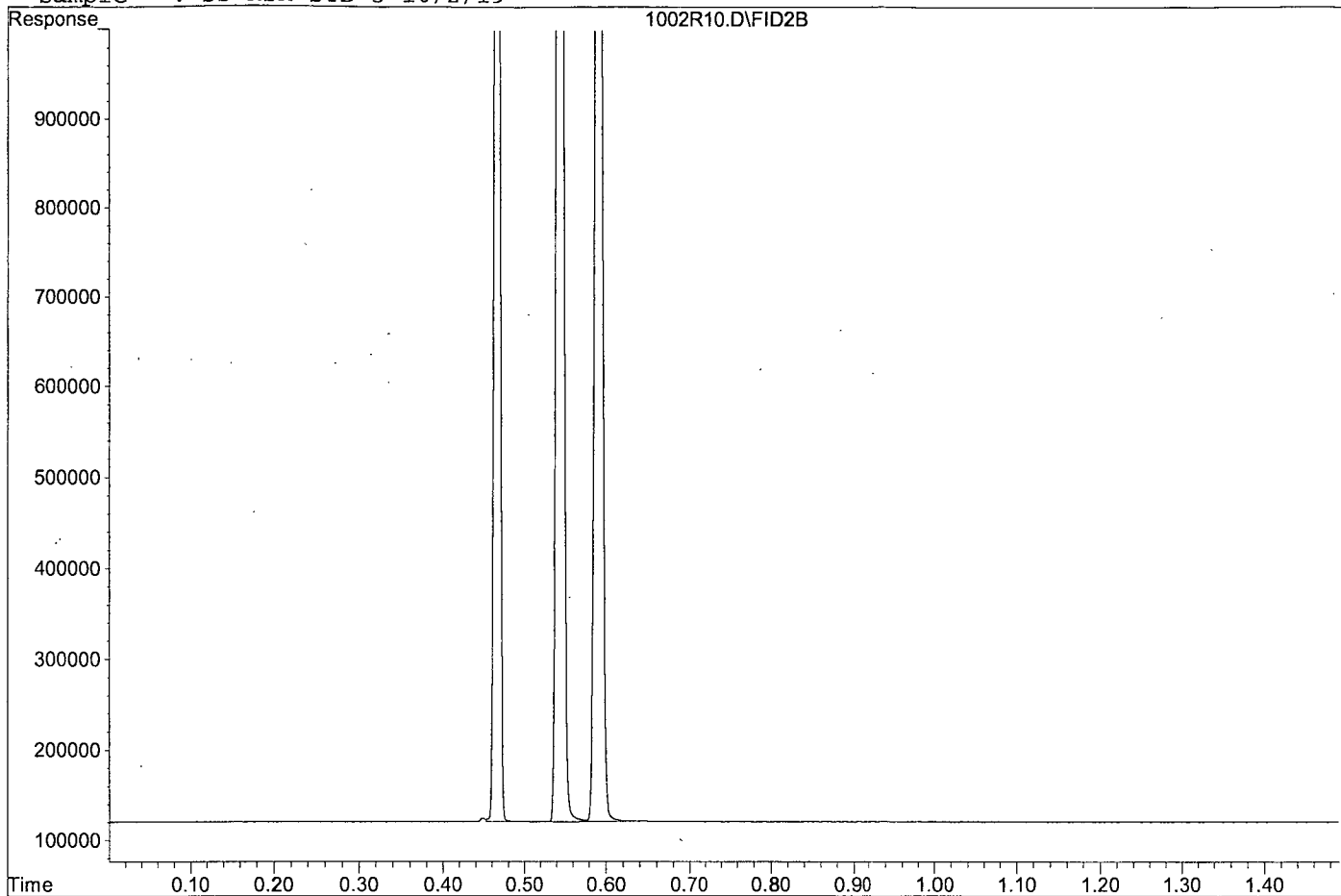
Target Compounds			
1) ATM Methane	0.47	2093456	90.480 ppb
2) ATM Ethane	0.54	2893356	170.002 ppb
3) ATM Ethene	0.59	2092707	156.318 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R10.D

Sample : SS RSK STD 5 10/2/19



RSK 175
RSK 175

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: 7890

Initial Cal. Date: 10/02/19

Data File: 1028R03.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	36997	20	ATM
2	ATM	Ethane	34039	31891	6.3	ATM
3	ATM	Ethene	26775	26508	1.0	ATM
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Average

9.1

Data File : G:\ROCKY\DATA\191002RS\1028R03.D Vial: 3
 Acq On : 28 Oct 19 15:59 Operator: GA
 Sample : 191028A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:03 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

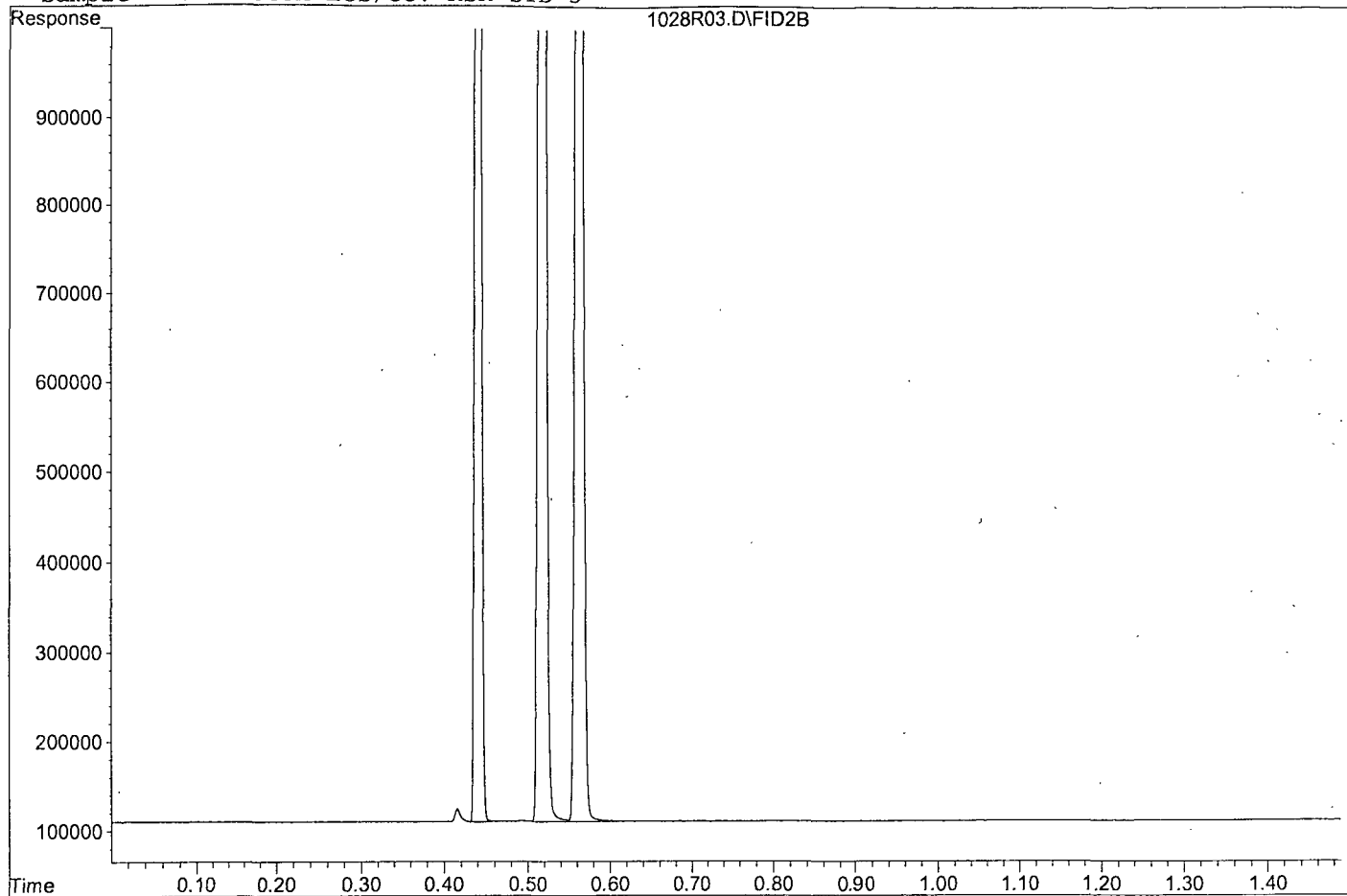
Target Compounds			
1) ATM Methane	0.44	1542767	66.679 ppb
2) ATM Ethane	0.52	2493068	146.483 ppb
3) ATM Ethene	0.56	1932951	144.385 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R03.D

Sample : 191028A LCS/CCV RSK STD 5



RSK 175
RSK 175

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: 7890
Initial Cal. Date: 10/02/19
Data File: 1028R24.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	56601	22	ATM
2	ATM	Ethane	34039	42016	23	ATM
3	ATM	Ethene	26775	32955	23	ATM
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Average

22.7

Data File : G:\ROCKY\DATA\191002RS\1028R24.D Vial: 24
 Acq On : 28 Oct 19 17:38 Operator: GA
 Sample : ENDING CCV RSK STD 5 10/28/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:40 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

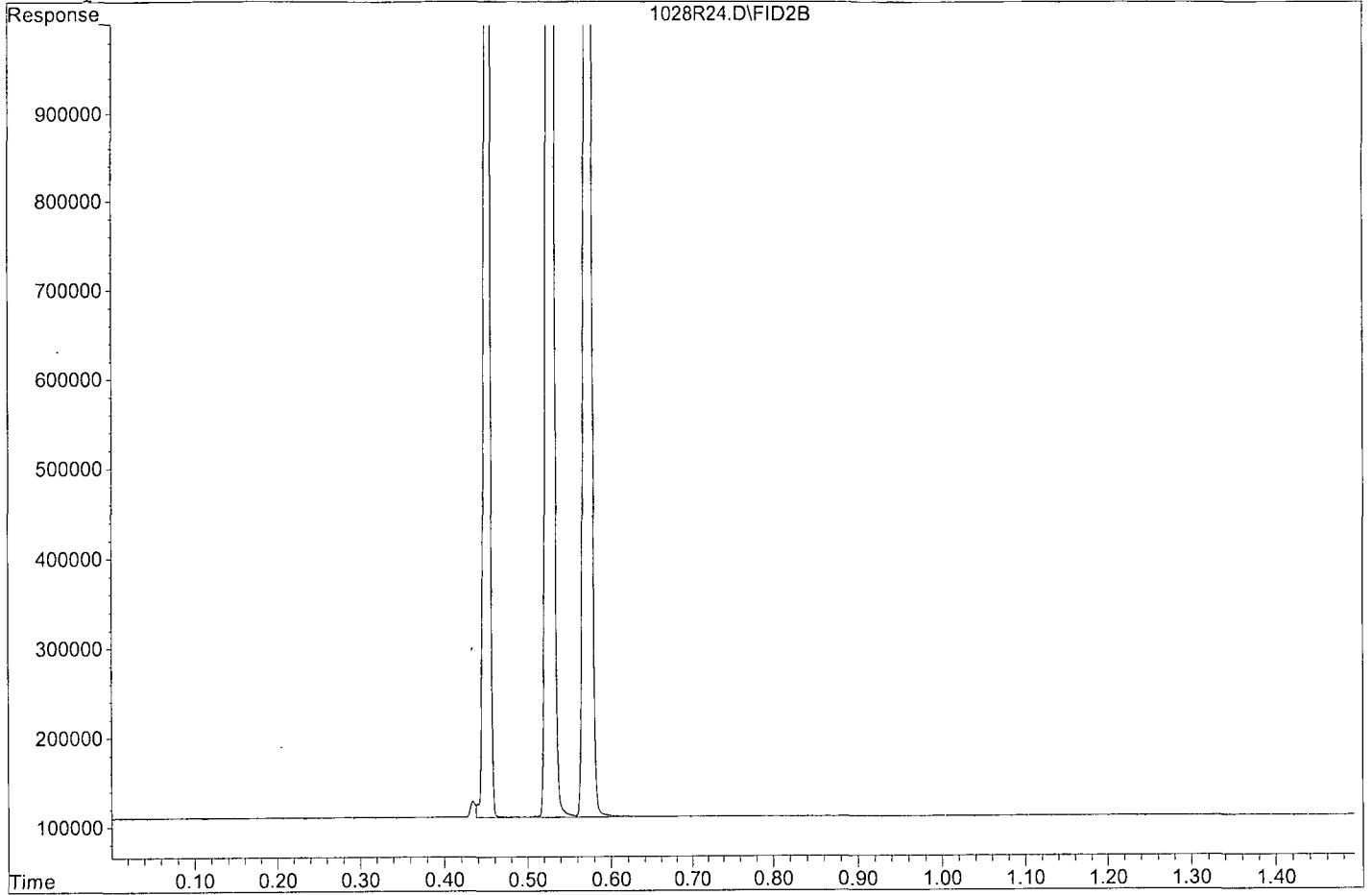
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.45	2360268	102.012 ppb
2) ATM Ethane	0.53	3284611	192.990 ppb
3) ATM Ethene	0.57	2403101	179.503 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R24.D
Sample : ENDING CCV RSK STD 5 10/28/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\191002RS\1028R06.D Vial: 6
 Acq On : 28 Oct 19 16:16 Operator: GA
 Sample : BA01650W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:18 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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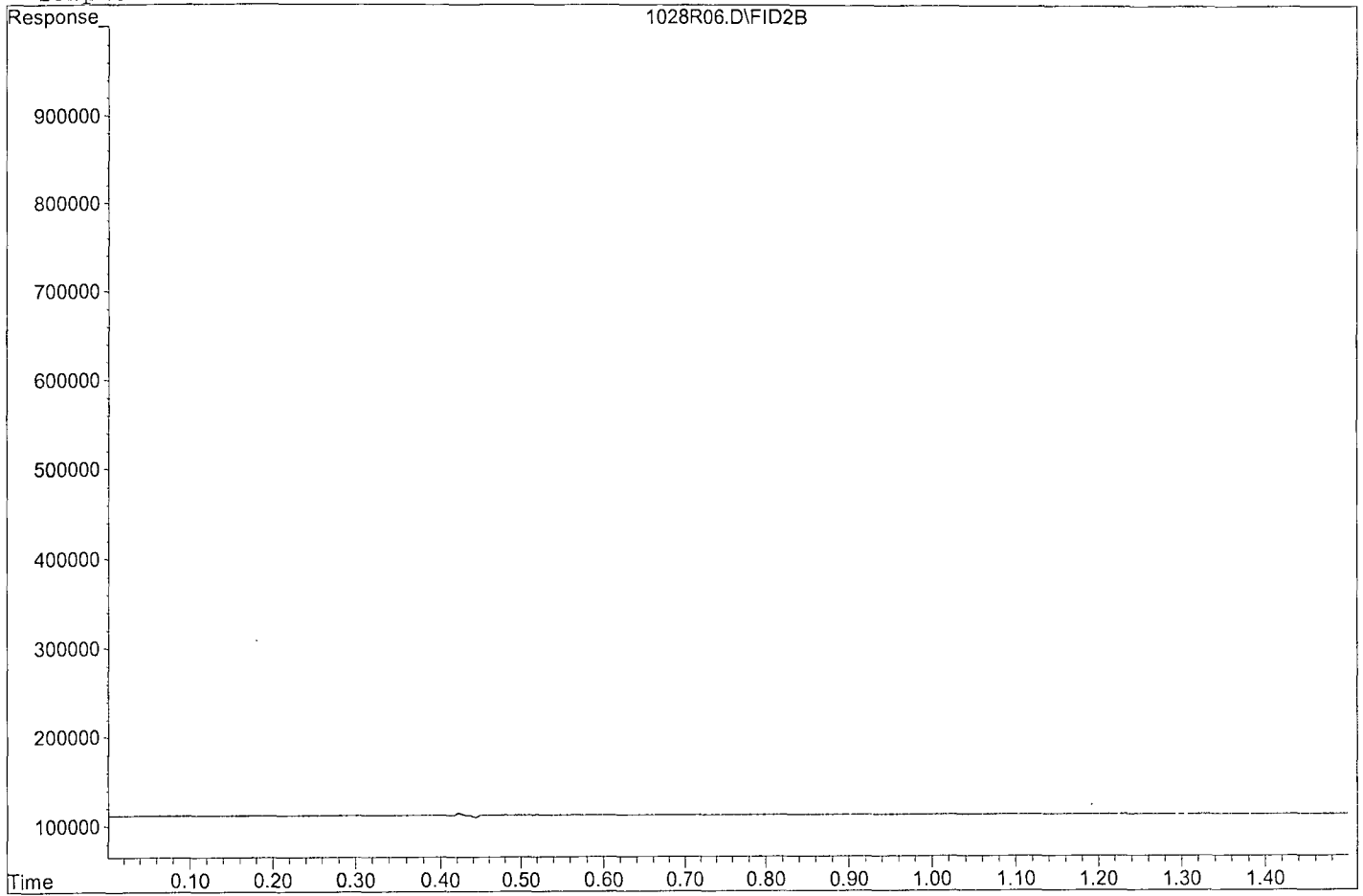
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R06.D

Sample : BA01650W02



Data File : G:\ROCKY\DATA\191002RS\1028R08.D Vial: 8
 Acq On : 28 Oct 19 16:22 Operator: GA
 Sample : BA01651W02 E METHANE Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:25 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

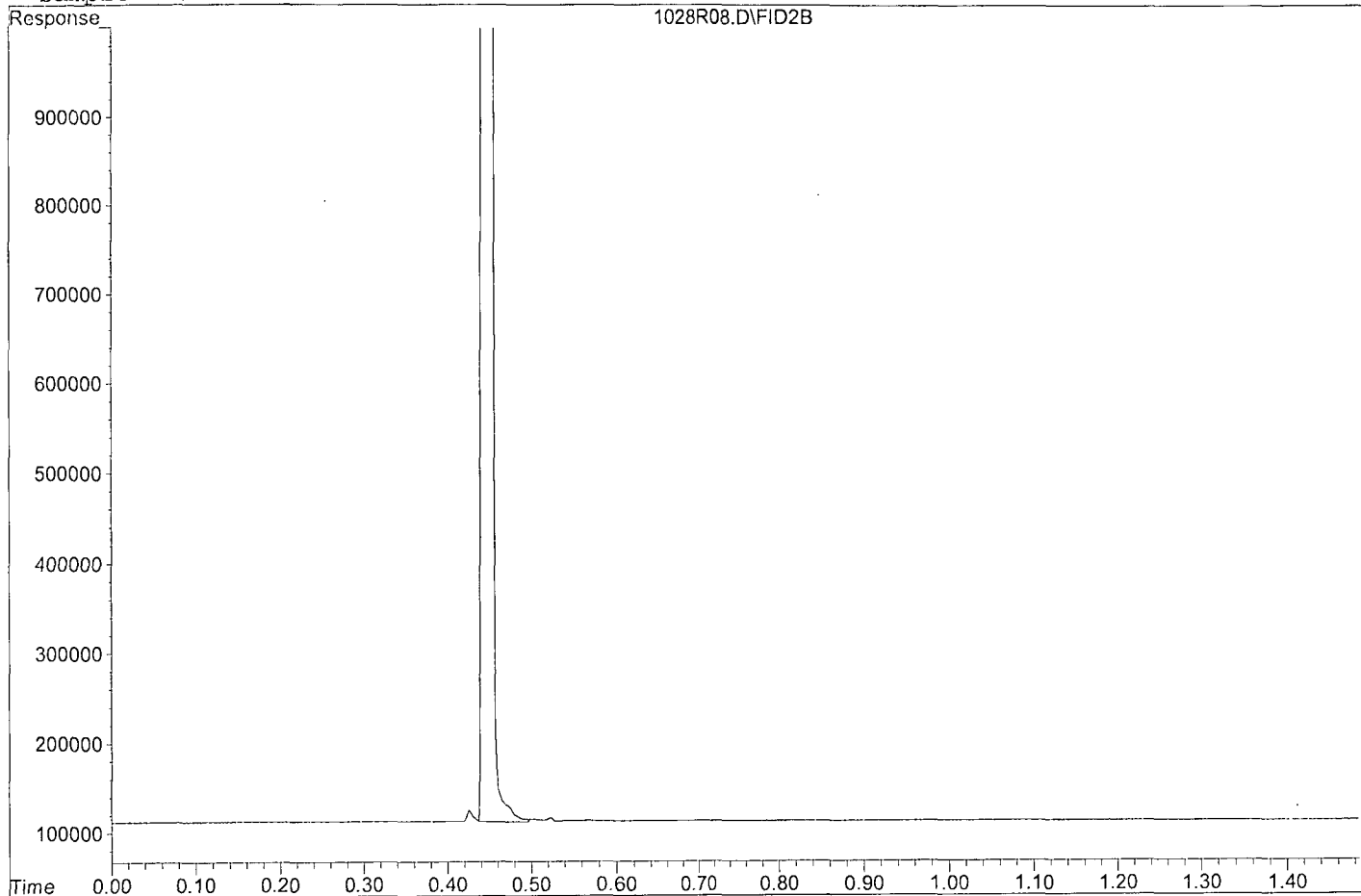
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.45	103733072	4483.381	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R08.D

Sample : BA01651W02 E METHANE



Data File : G:\ROCKY\DATA\191002RS\1028R09.D Vial: 9
 Acq On : 28 Oct 19 16:25 Operator: GA
 Sample : BA01651W02 DF25 Inst : 7890
 Misc : Multiplr: 25.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:29 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

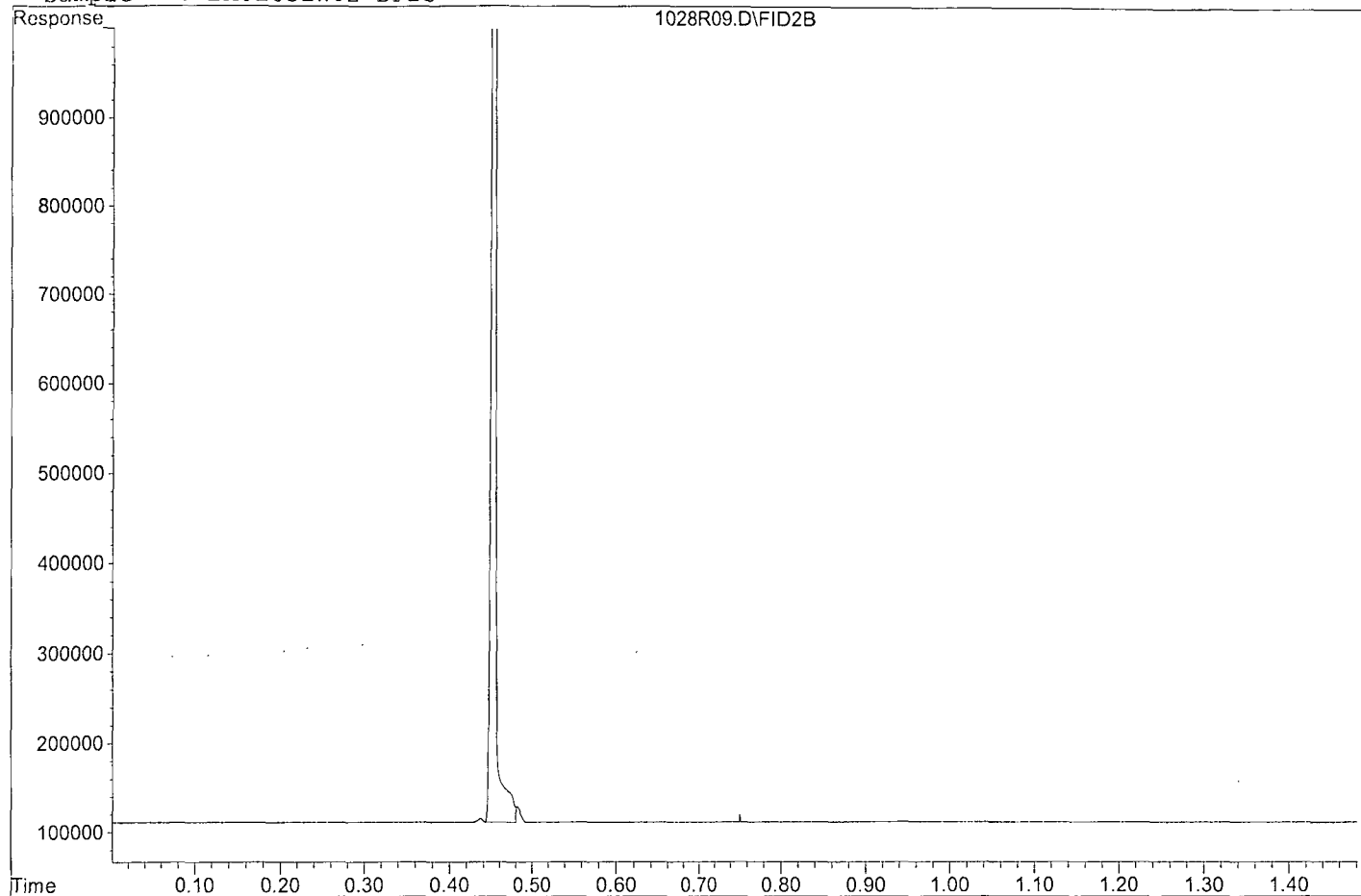
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.45	3855862	4166.294	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R09.D

Sample : BA01651W02 DF25



Data File : G:\ROCKY\DATA\191002RS\1028R11.D Vial: 11
 Acq On : 28 Oct 19 16:32 Operator: GA
 Sample : BA01653W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:53 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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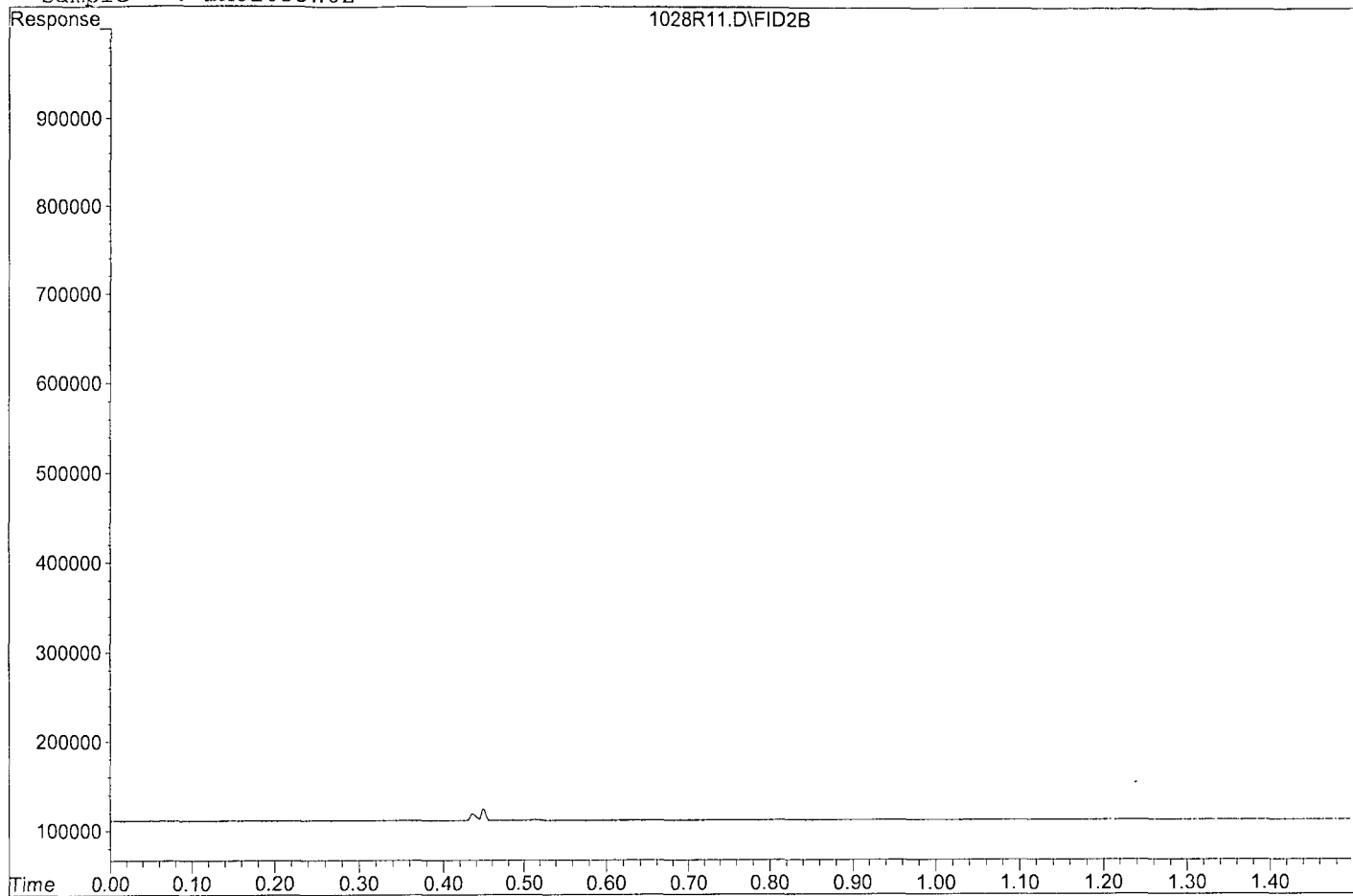
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R11.D

Sample : BA01653W02



Data File : G:\ROCKY\DATA\191002RS\1028R12.D Vial: 12
 Acq On : 28 Oct 19 16:52 Operator: GA
 Sample : BA01654W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 18:16 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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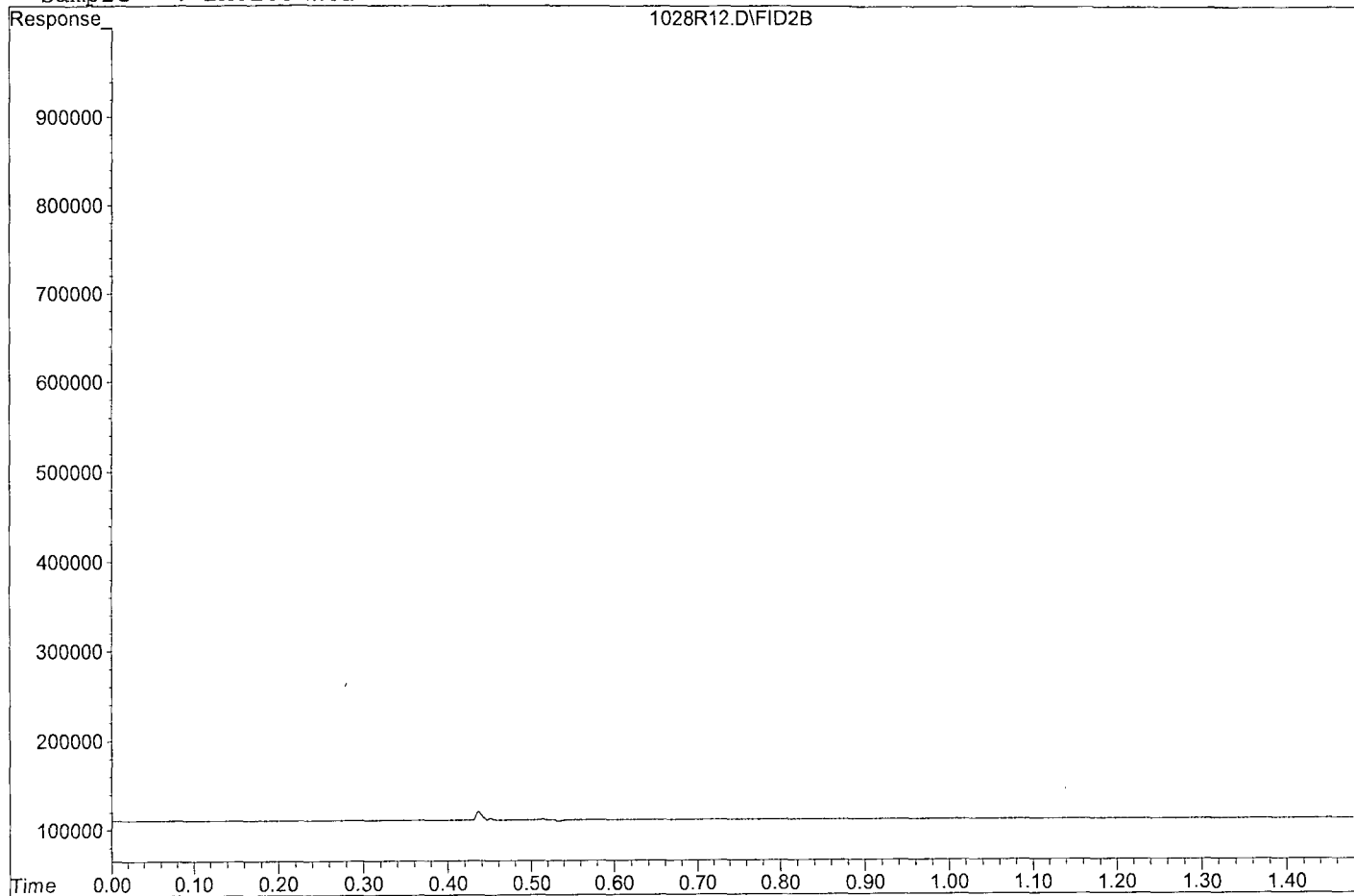
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R12.D

Sample : BA01654W02



Data File : G:\ROCKY\DATA\191002RS\1028R13.D Vial: 13
 Acq On : 28 Oct 19 16:56 Operator: GA
 Sample : BA01655W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:59 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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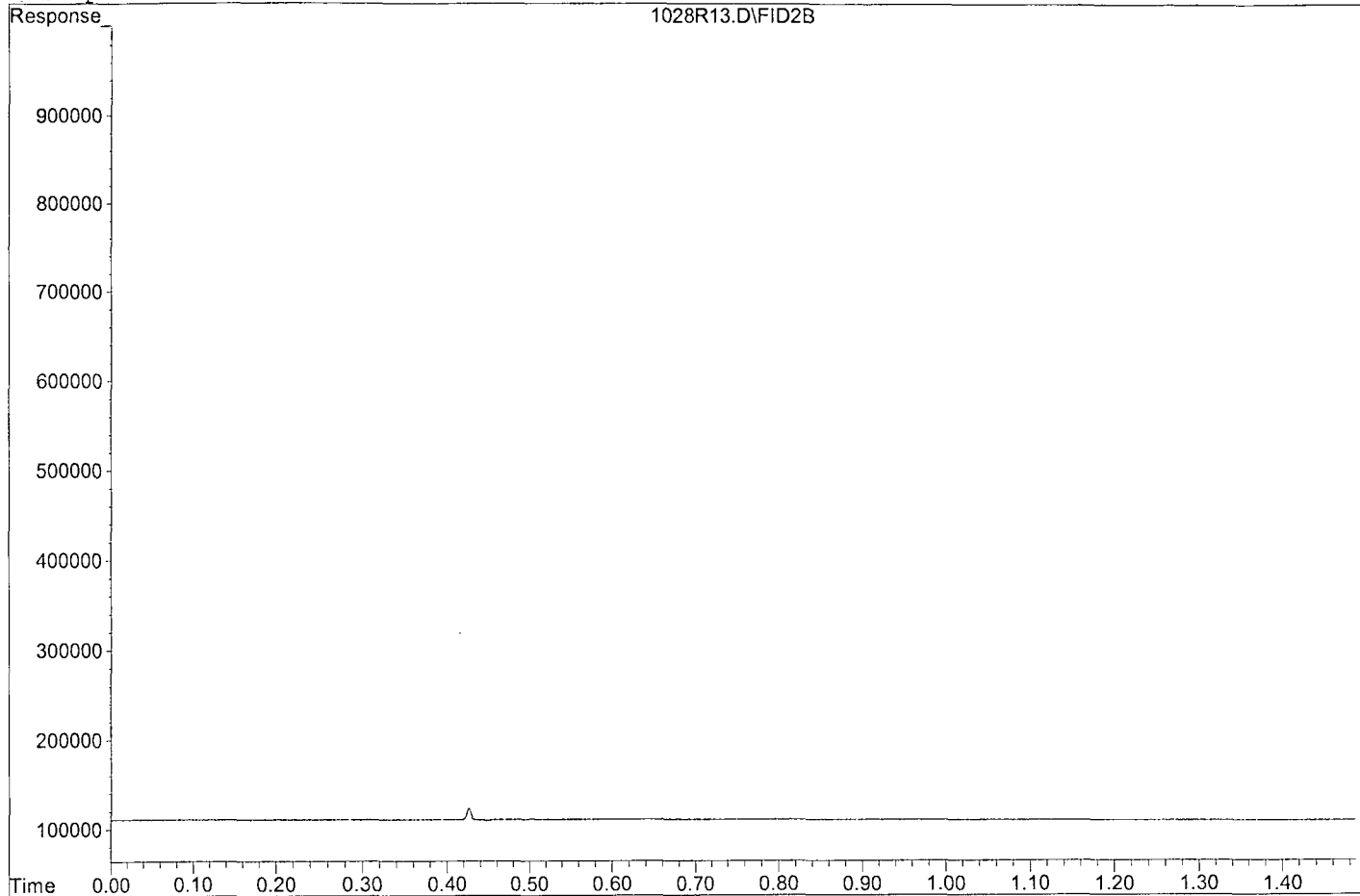
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R13.D

Sample : BA01655W02



Data File : G:\ROCKY\DATA\191002RS\1028R14.D Vial: 14
 Acq On : 28 Oct 19 17:00 Operator: GA
 Sample : BA01656W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:03 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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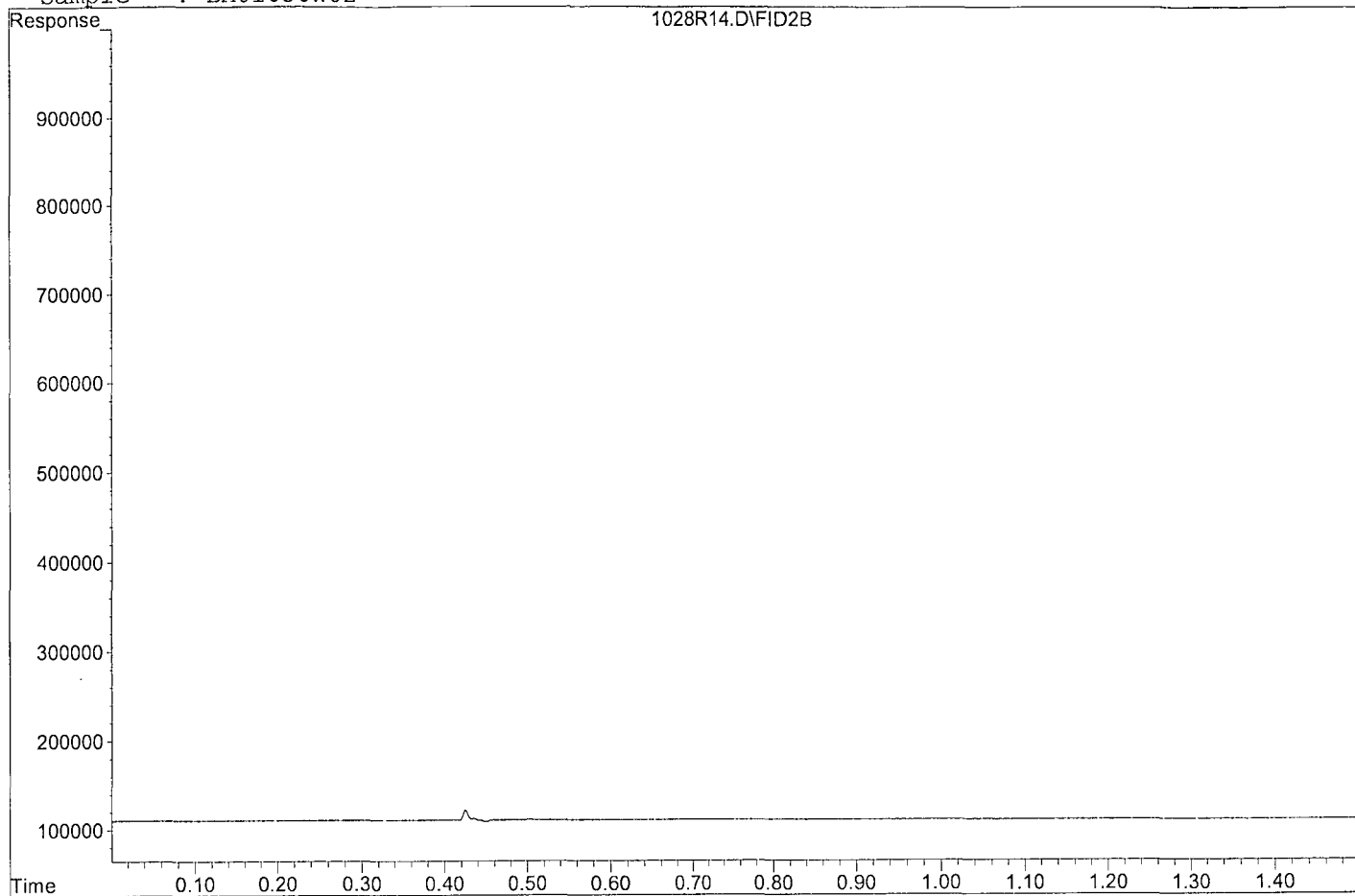
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R14.D

Sample : BA01656W02



Data File : G:\ROCKY\DATA\191002RS\1028R15.D Vial: 15
 Acq On : 28 Oct 19 17:04 Operator: GA
 Sample : BA01657W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:07 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

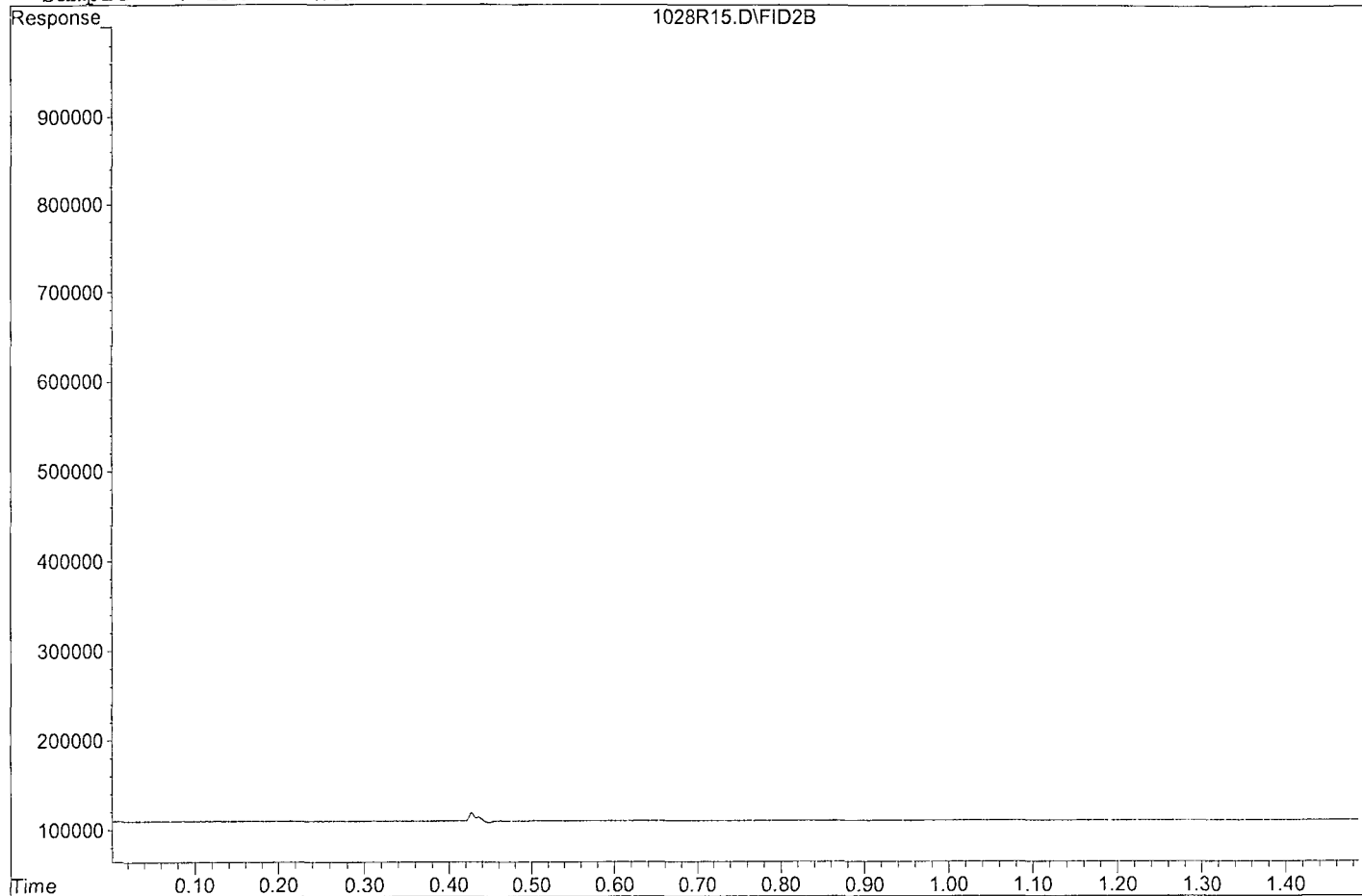
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R15.D

Sample : BA01657W02



Data File : G:\ROCKY\DATA\191002RS\1028R17.D Vial: 17
 Acq On : 28 Oct 19 17:12 Operator: GA
 Sample : BA01658W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:15 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

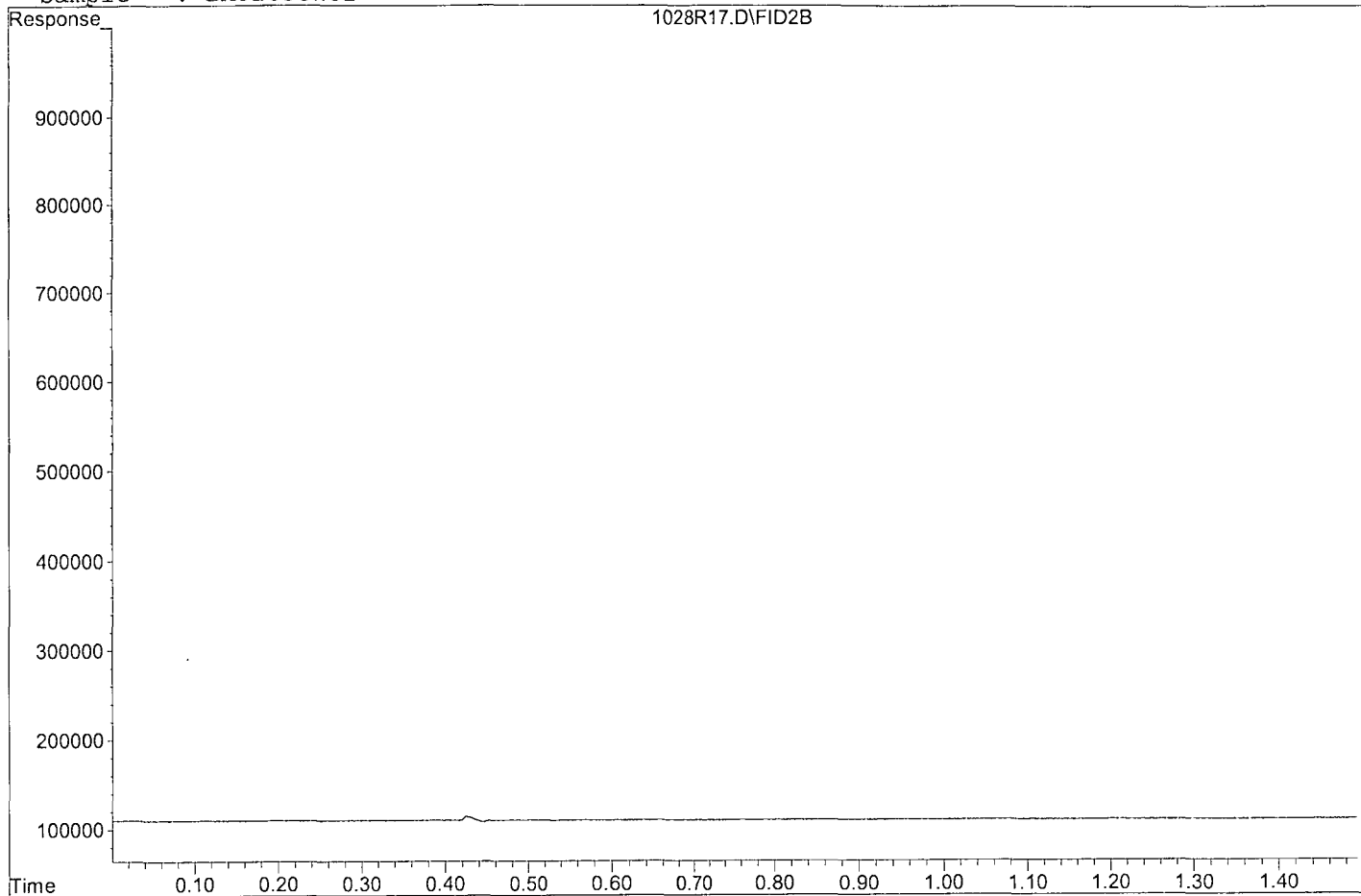
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R17.D

Sample : BA01658W02



Data File : G:\ROCKY\DATA\191002RS\1028R18.D Vial: 18
 Acq On : 28 Oct 19 17:16 Operator: GA
 Sample : BA01659W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:19 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

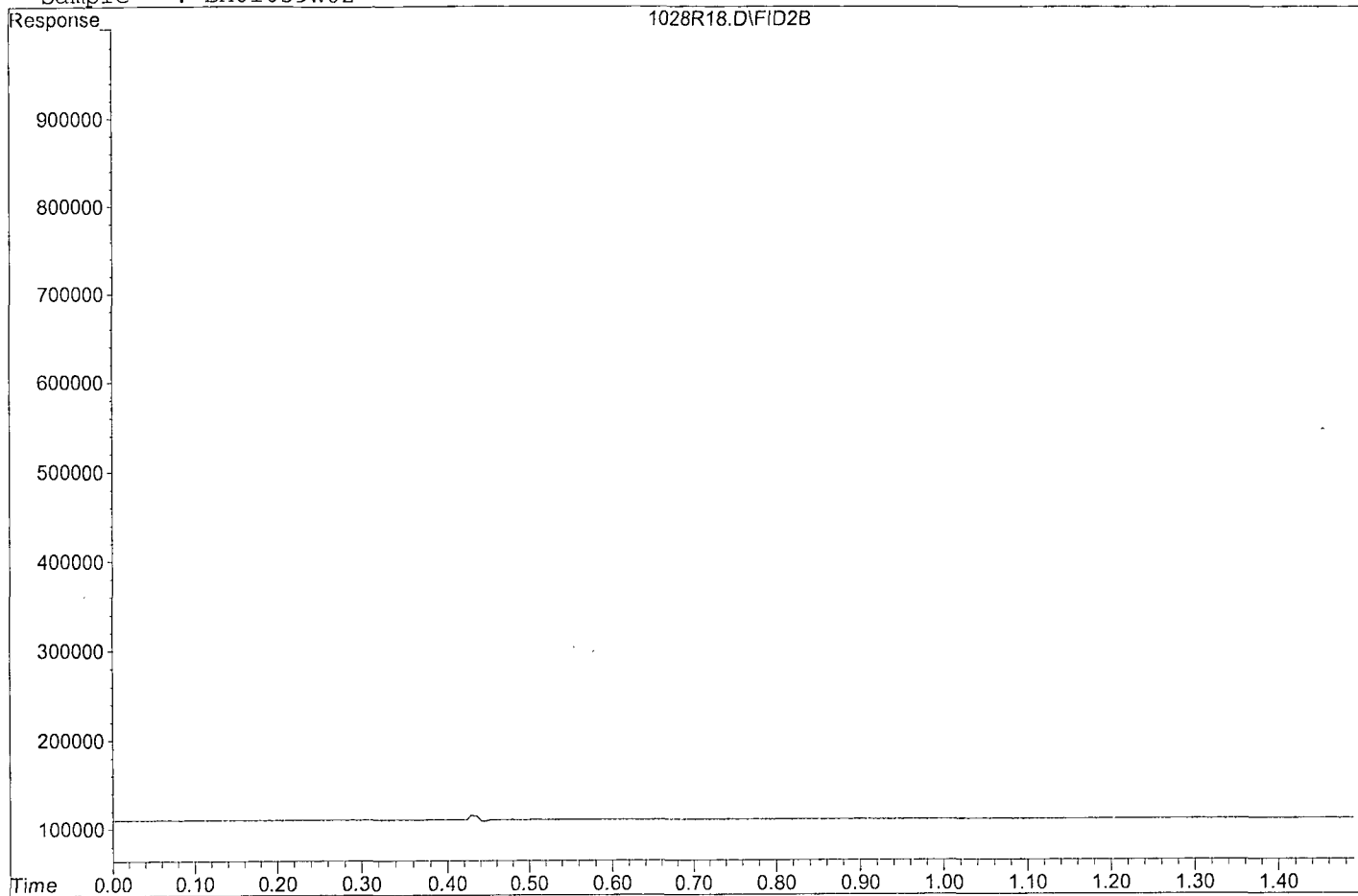
Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R18.D
Sample : BA01659W02



Data File : G:\ROCKY\DATA\191002RS\1028R19.D Vial: 19
 Acq On : 28 Oct 19 17:19 Operator: GA
 Sample : BA01660W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:22 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

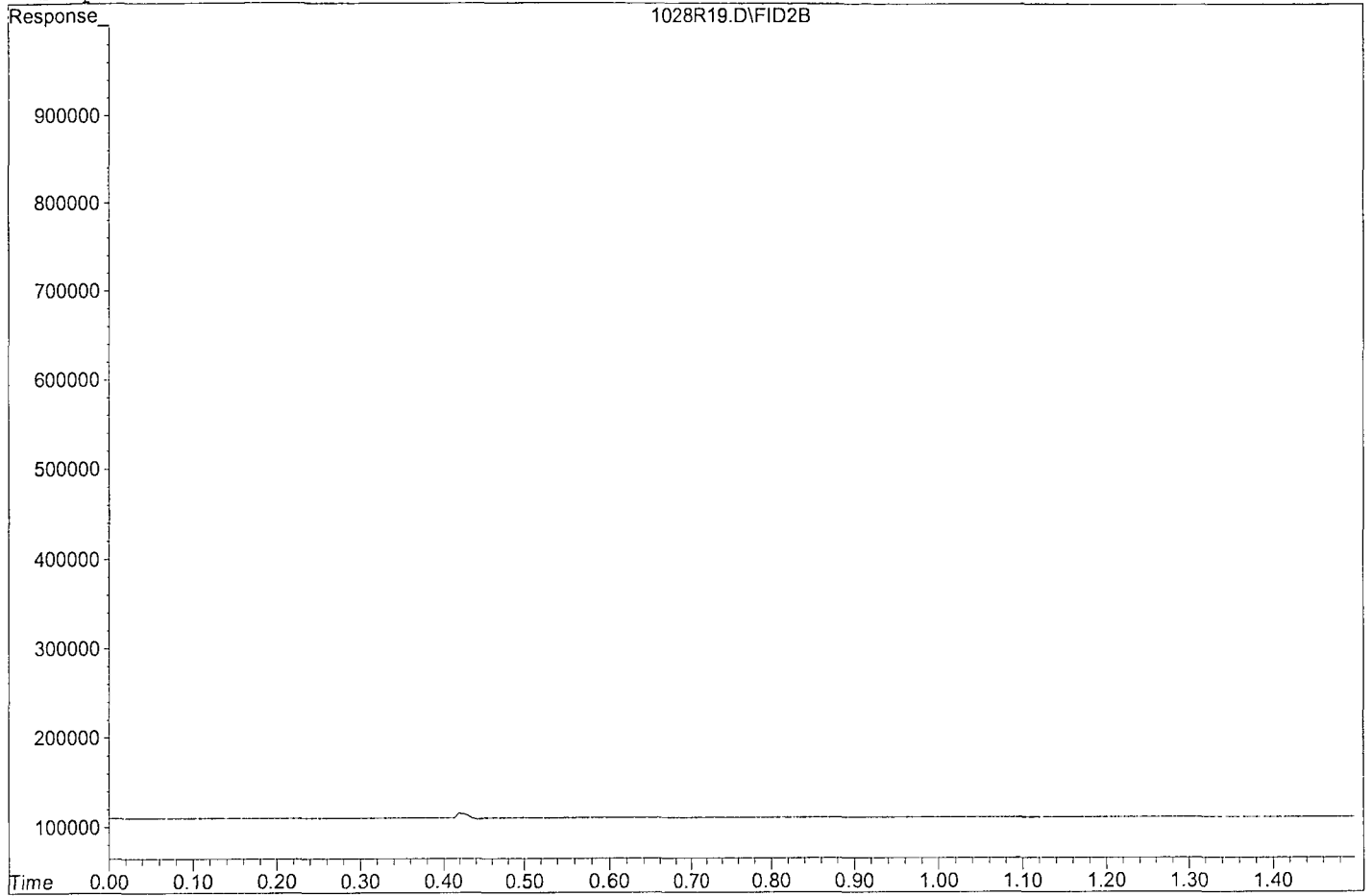
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R19.D

Sample : BA01660W02



Data File : G:\ROCKY\DATA\191002RS\1028R20.D Vial: 20
 Acq On : 28 Oct 19 17:23 Operator: GA
 Sample : BA01661W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:27 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

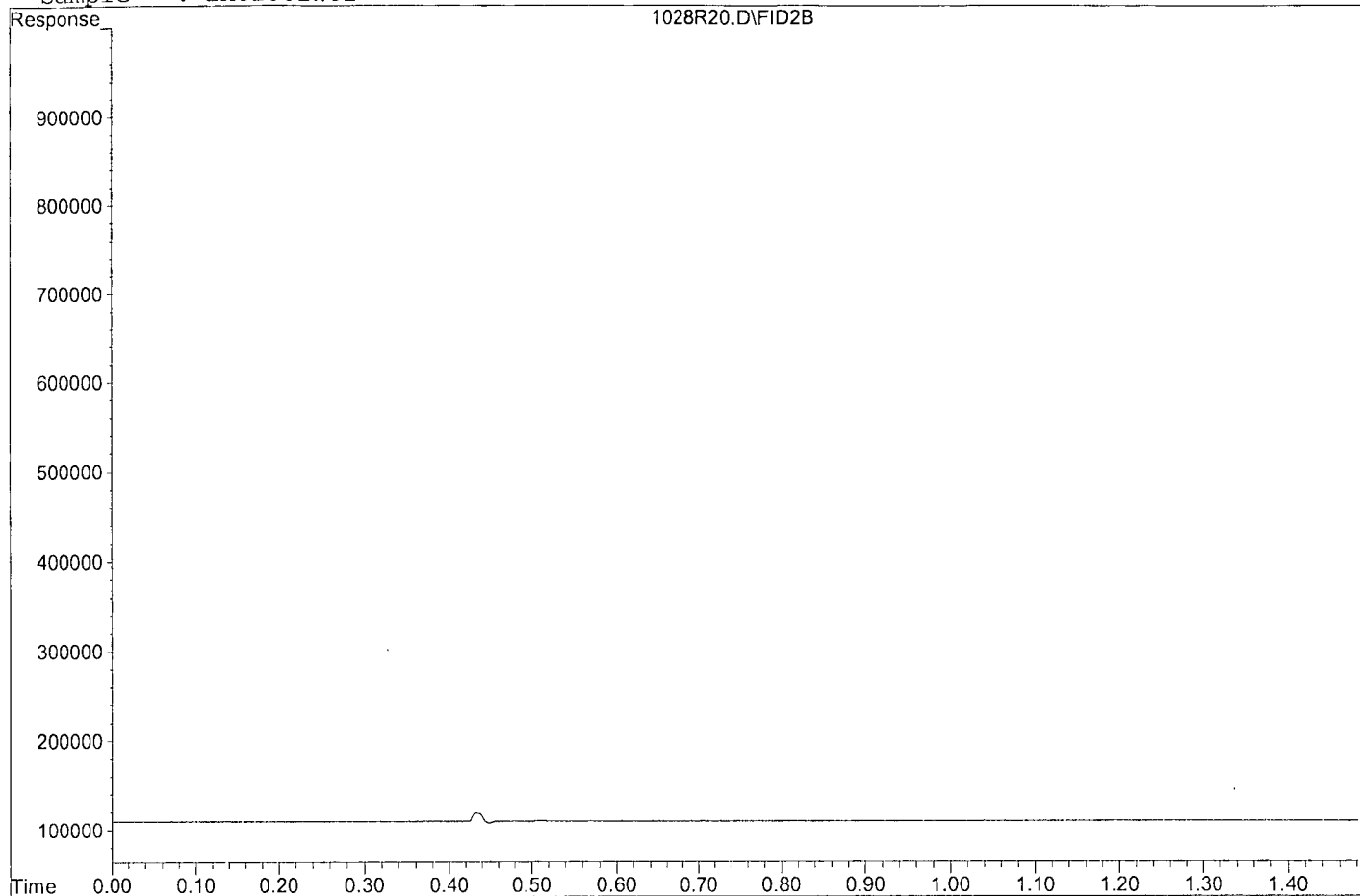
Compound	R.T.	Response	Conc	Units

Target Compounds				
Target Compounds				
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R20.D

Sample : BA01661W02



Data File : G:\ROCKY\DATA\191002RS\1028R21.D Vial: 21
 Acq On : 28 Oct 19 17:28 Operator: GA
 Sample : BA01662W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:30 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

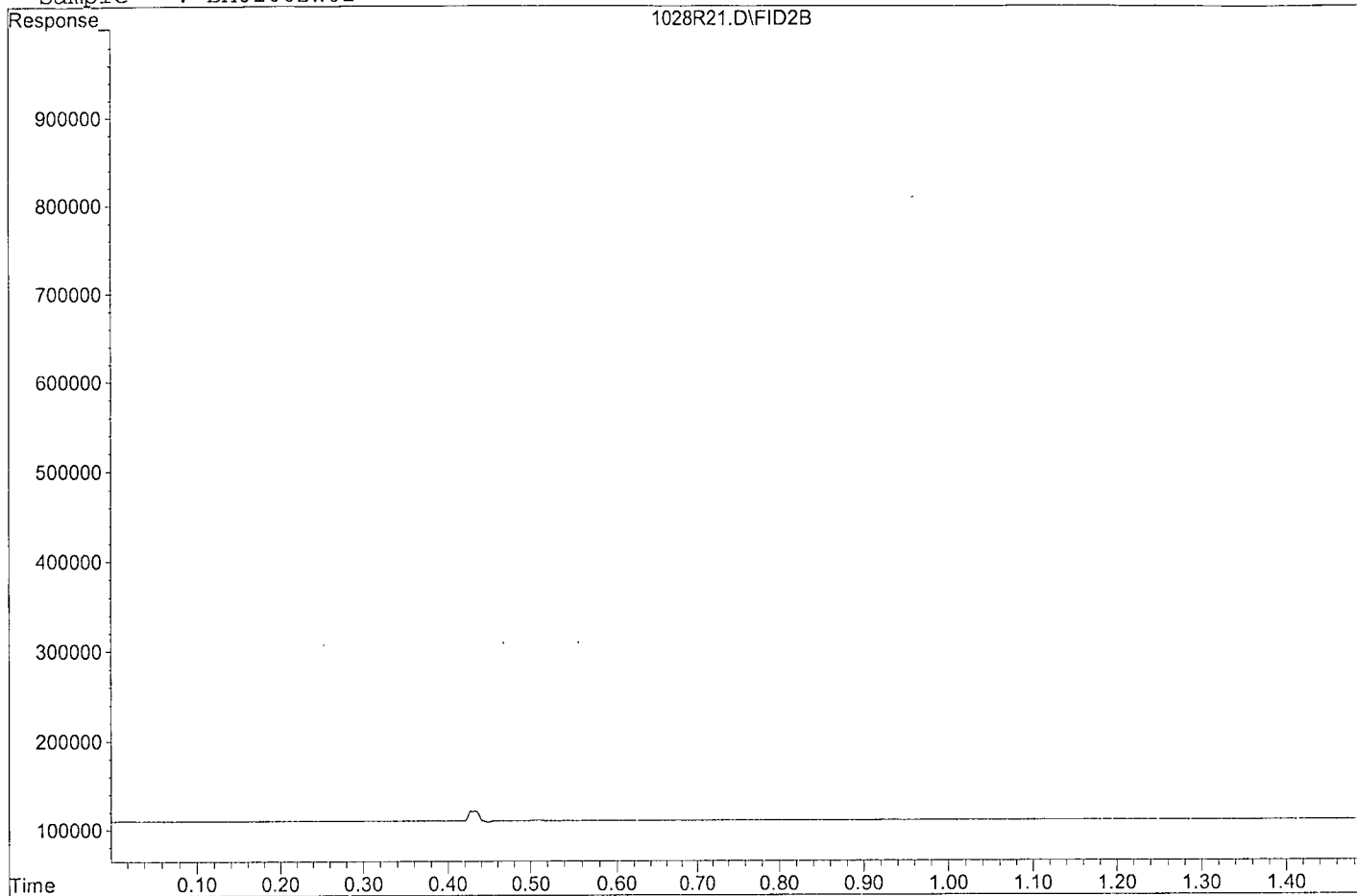
Compound	R.T.	Response	Conc	Units
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Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R21.D
Sample : BA01662W02



Data File : G:\ROCKY\DATA\191002RS\1028R22.D Vial: 22
 Acq On : 28 Oct 19 17:31 Operator: GA
 Sample : BA01663W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:34 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

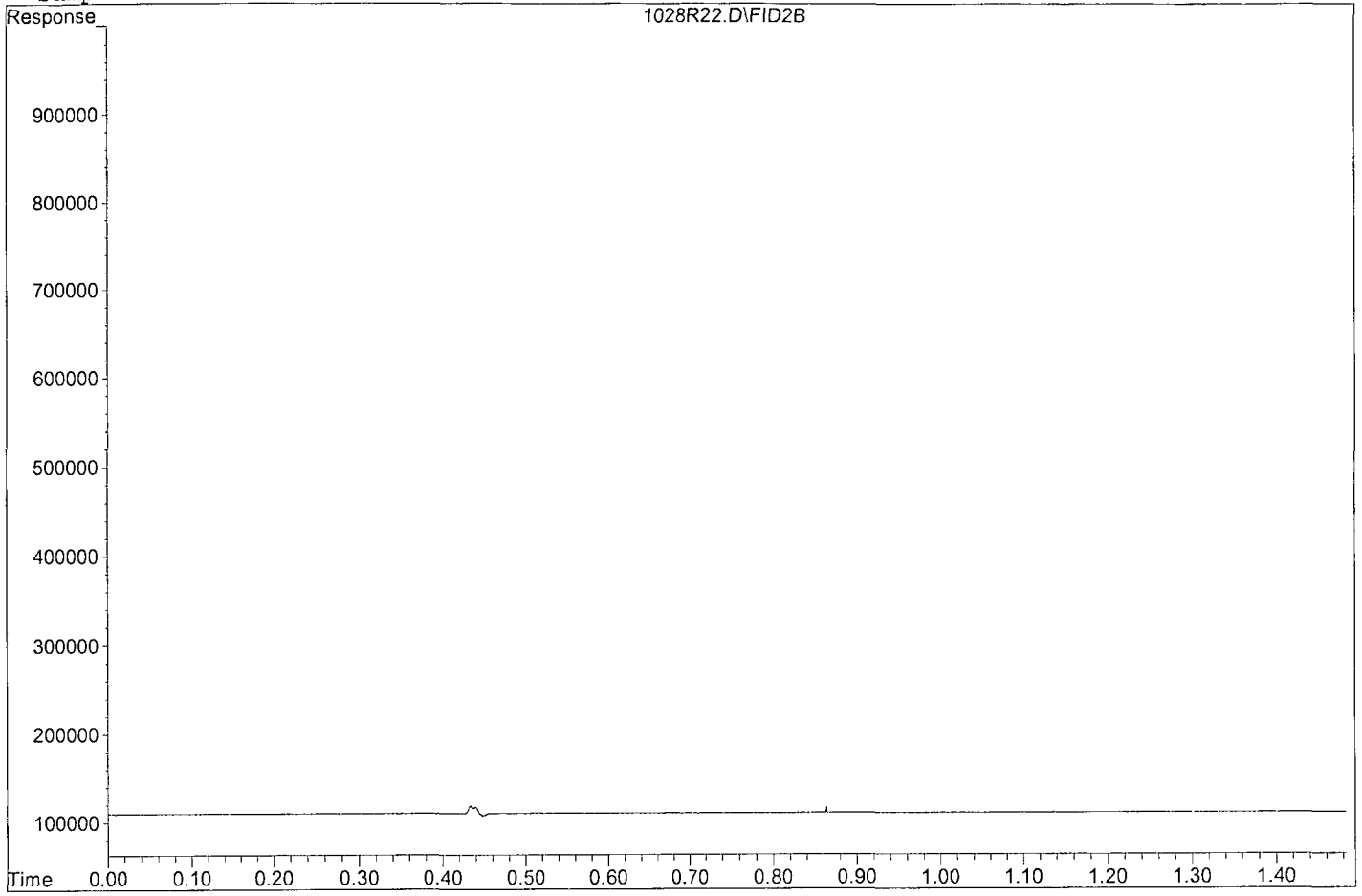
Compound	R.T.	Response	Conc	Units
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Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R22.D
Sample : BA01663W02



Data File : G:\ROCKY\DATA\191002RS\1028R23.D Vial: 23
 Acq On : 28 Oct 19 17:35 Operator: GA
 Sample : BA01664W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 17:37 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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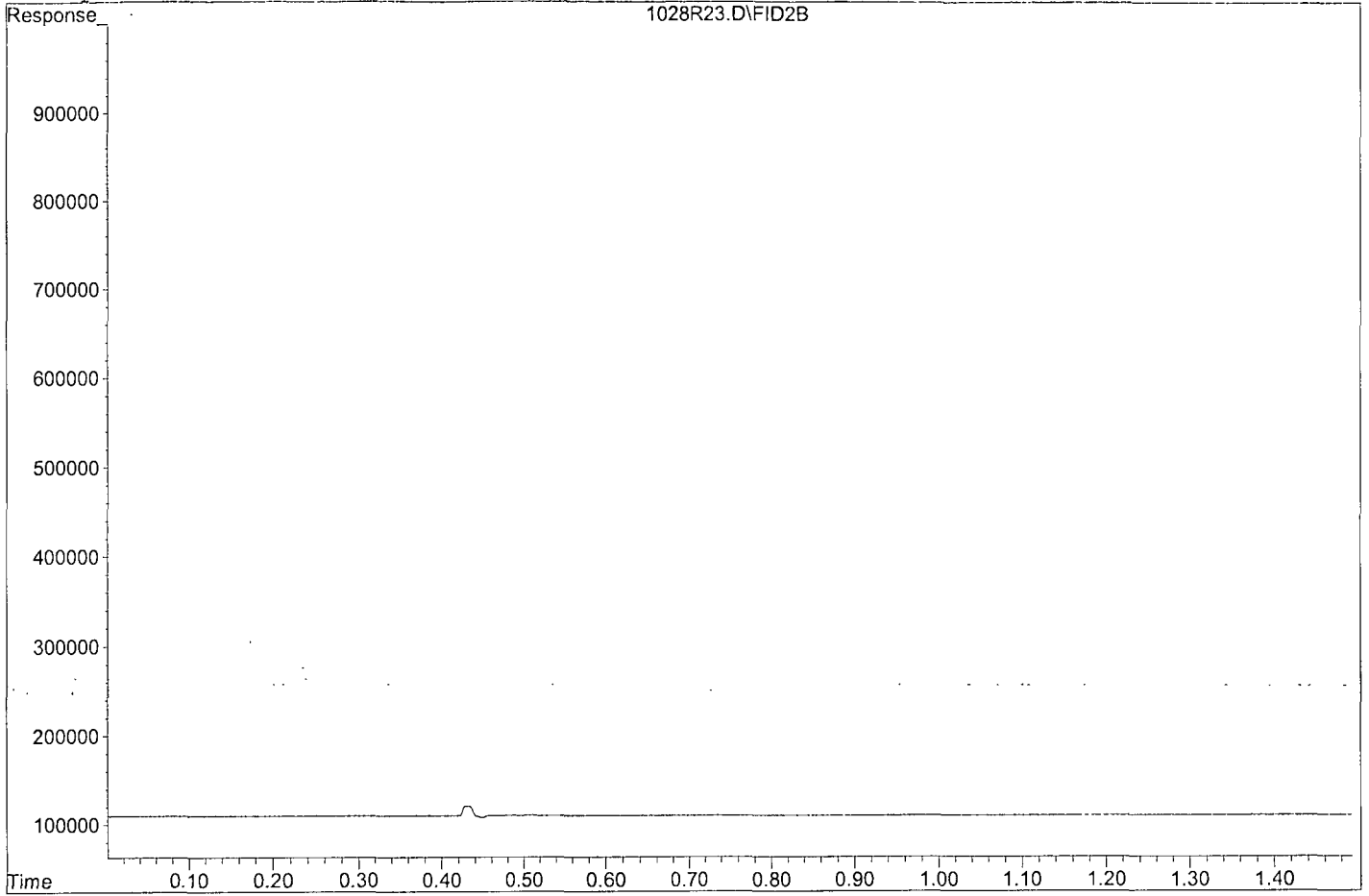
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R23.D

Sample : BA01664W02



Data File : G:\ROCKY\DATA\191002RS\1028R05.D Vial: 5
 Acq On : 28 Oct 19 16:11 Operator: GA
 Sample : 191028A BLK Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:15 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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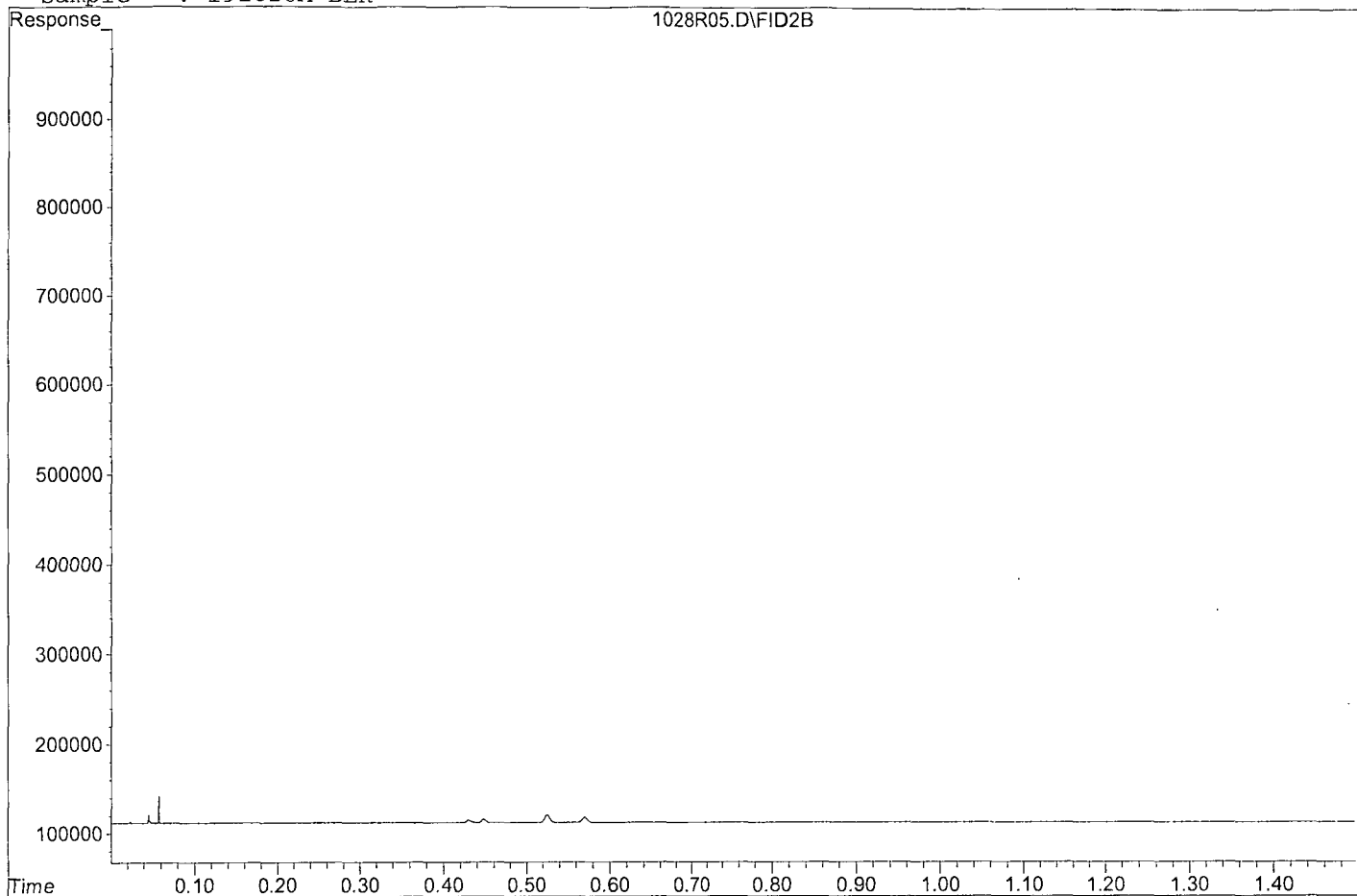
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R05.D

Sample : 191028A BLK



Data File : G:\ROCKY\DATA\191002RS\1028R03.D Vial: 3
 Acq On : 28 Oct 19 15:59 Operator: GA
 Sample : 191028A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:03 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

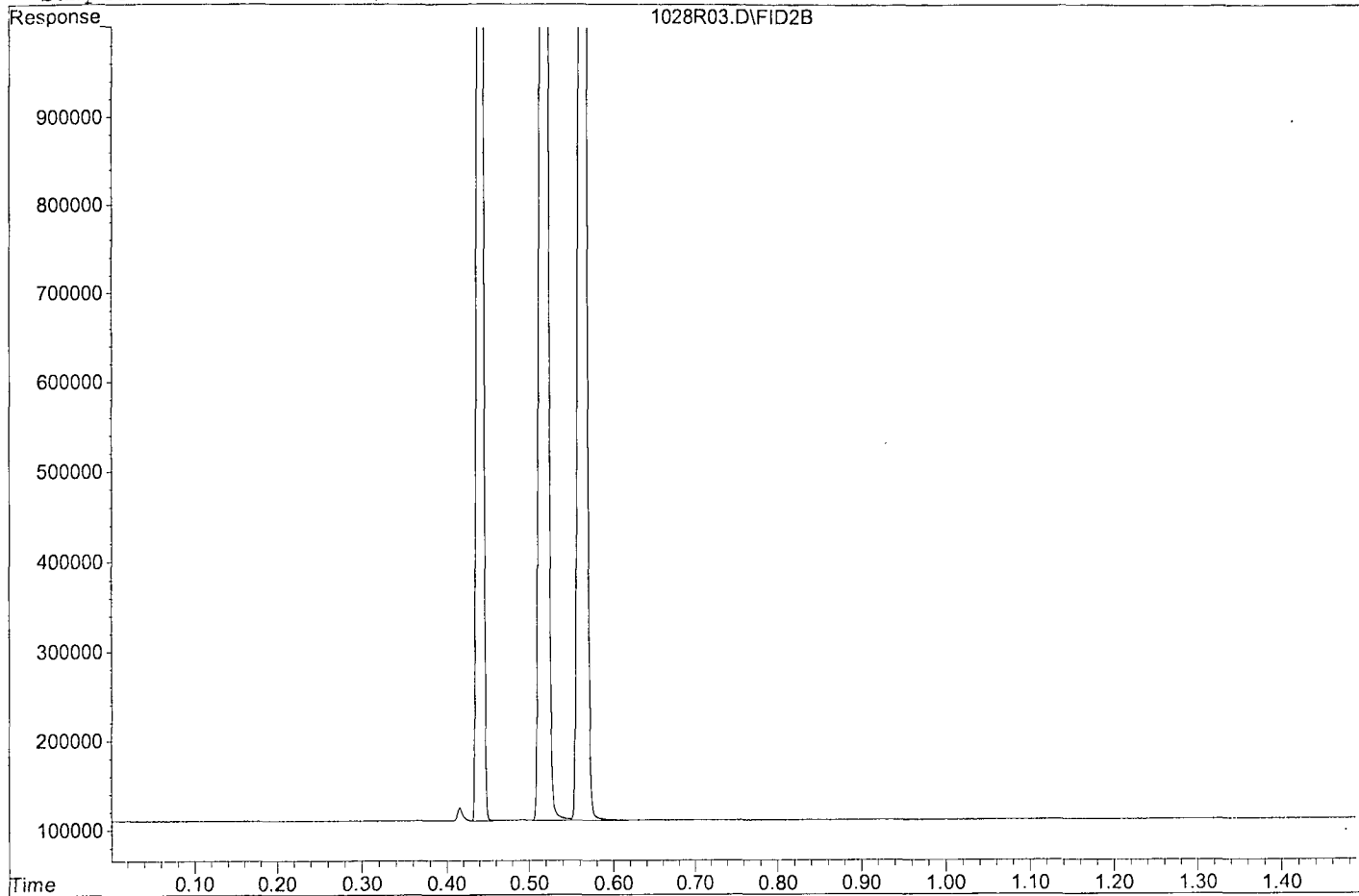
Target Compounds			
1) ATM Methane	0.44	1542767	66.679 ppb
2) ATM Ethane	0.52	2493068	146.483 ppb
3) ATM Ethene	0.56	1932951	144.385 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R03.D

Sample : 191028A LCS/CCV RSK STD 5



Data File : G:\ROCKY\DATA\191002RS\1028R04.D Vial: 4
 Acq On : 28 Oct 19 16:04 Operator: GA
 Sample : 191028A LCSD Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 28 16:12 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 23 17:26:16 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

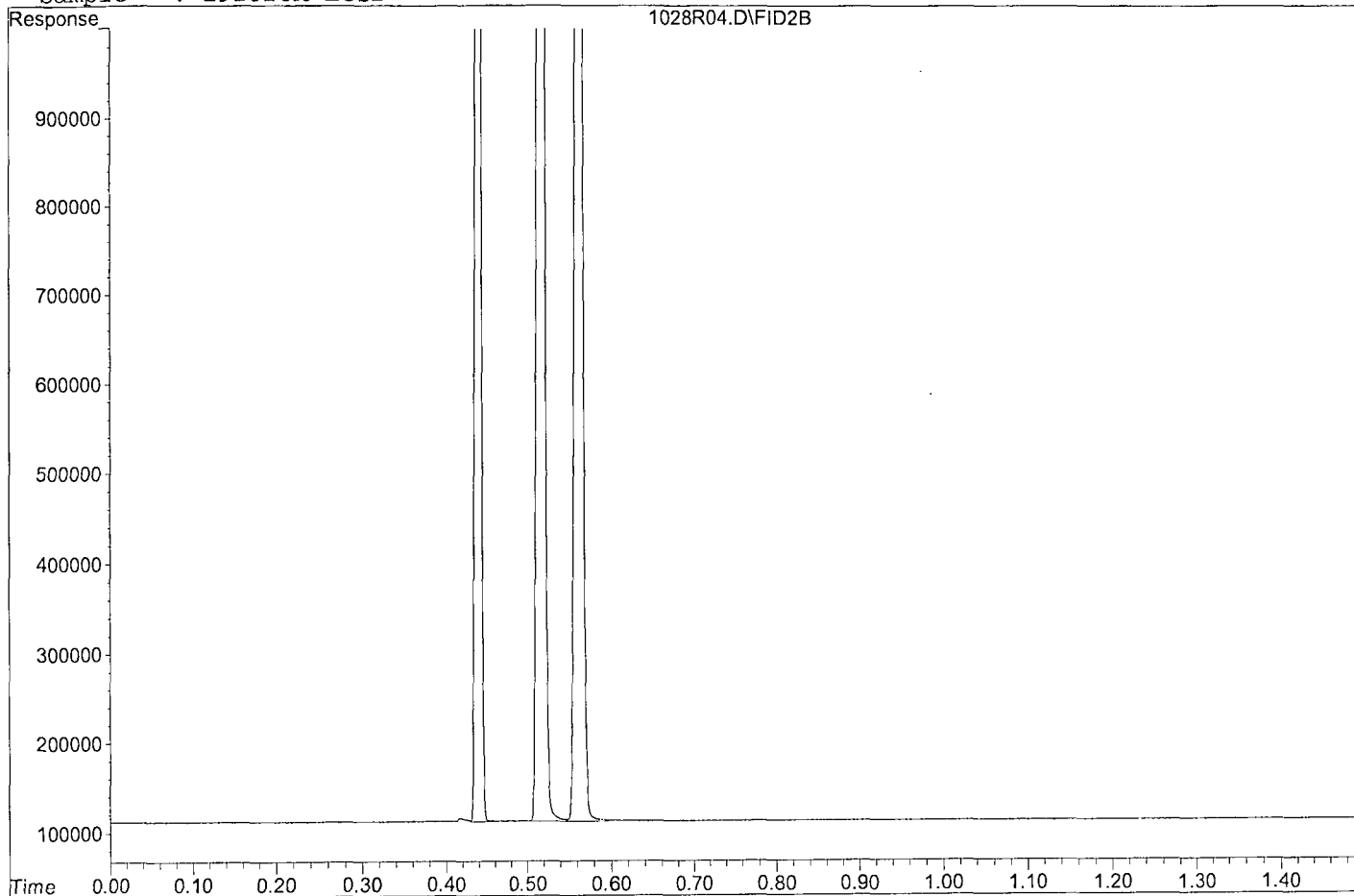
Target Compounds			
1) ATM Methane	0.44	1738320	75.131 ppb
2) ATM Ethane	0.52	2710935	159.283 ppb
3) ATM Ethene	0.56	2067119	154.407 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1028R04.D

Sample : 191028A LCSD



Injection Log

Directory: G:\ROCKYDATA\191002RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1002R02.D	1	RSK STD 1 10/2/19		2 Oct 19 17:45
2	3	1002R03.D	1	RSK STD 2 10/2/19		2 Oct 19 17:50
3	4	1002R04.D	1	RSK STD 3 10/2/19		2 Oct 19 17:52
4	5	1002R05.D	1	RSK STD 4 10/2/19		2 Oct 19 17:57
5	6	1002R06.D	1	RSK STD 5 10/2/19		2 Oct 19 17:59*
6	7	1002R07.D	1	RSK STD 6 10/2/19		2 Oct 19 18:05
7	8	1002R08.D	1	RSK STD 7 10/2/19		2 Oct 19 18:07
8	10	1002R10.D	1	SS RSK STD 5 10/2/19		2 Oct 19 18:24
9	3	1028R03.D	1	191028A LCS/CCV RSK STD 5		28 Oct 19 15:59
10	4	1028R04.D	1	191028A LCSD		28 Oct 19 16:04
11	5	1028R05.D	1	191028A BLK		28 Oct 19 16:11
12	6	1028R06.D	1	BA01650W02		28 Oct 19 16:16
13	8	1028R08.D	1	BA01651W02 E METHANE		28 Oct 19 16:22
14	9	1028R09.D	25	BA01651W02 DF25		28 Oct 19 16:25
15	11	1028R11.D	1	BA01653W02		28 Oct 19 16:32
16	12	1028R12.D	1	BA01654W02		28 Oct 19 16:52
17	13	1028R13.D	1	BA01655W02		28 Oct 19 16:56
18	14	1028R14.D	1	BA01656W02		28 Oct 19 17:00
19	15	1028R15.D	1	BA01657W02		28 Oct 19 17:04
20	17	1028R17.D	1	BA01658W02		28 Oct 19 17:12
21	18	1028R18.D	1	BA01659W02		28 Oct 19 17:16
22	19	1028R19.D	1	BA01660W02		28 Oct 19 17:19
23	20	1028R20.D	1	BA01661W02		28 Oct 19 17:23
24	21	1028R21.D	1	BA01662W02		28 Oct 19 17:28
25	22	1028R22.D	1	BA01663W02		28 Oct 19 17:31
26	23	1028R23.D	1	BA01664W02		28 Oct 19 17:35
27	24	1028R24.D	1	ENDING CCV RSK STD 5 10/28/19		28 Oct 19 17:38

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 90532 SDG: 90532

Analysis Date: 10/30/19 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:14	%R(1)	True CCV1	Found 13:20	%R(1)	True CCV2	Found 13:58	%R(1)	
Calcium (Ca)	12500	12560	100	25000	25100	100	18750	18370	98.0	P
Potassium (K)	12500	12300	98.4	10000	9718	97.2	7500	7569	101	P
Magnesium (Mg)	-12500	12780	102	25000	25160	101	18750	19450	104	P
Manganese (Mn)	500	499.4	99.9	500	502.4	100	375.5	370.5	98.7	P
Sodium (Na)	12500	12500	100	12500	12120	97.0	9375	9156	97.7	P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 90532

SDG: 90532

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 10/30/19

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C	C	1	C	2	C	3	C	C	C	
			09:29	13:25	14:03		13:30				
Calcium (Ca)	1000.00	U	1000.00	U	1000.00	U			1000.00	U	P
Potassium (K)	3000.00	U	3000.00	U	3000.00	U			3000.00	U	P
Magnesium (Mg)	500.00	U	500.00	U	500.00	U			500.00	U	P
Manganese (Mn)	1.83	J	10.00	U	10.00	U			10.00	U	P
Sodium (Na)	5000.00	U	5000.00	U	5000.00	U			5000.00	U	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name:	<u>A.P.P.L. INC.</u>	Contract:	<u>AECOM</u>
ARF No.:	<u>90532</u>	SDG:	<u>90532</u>
ICP ID Number:	<u>Phoebe</u>	ICS Source:	<u>Environmental Express</u>

Analysis Date: 10/30/19

Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 9:55	Sol AB 10:00	%R(1)
Aluminum (Al)	100000	100000	104400	109300	109
Calcium (Ca)	100000	100000	101300	106500	107
Iron (Fe)	100000	100000	97930	101300	101
Potassium (K)			-157.1	-105.4	
Magnesium (Mg)	100000	100000	101700	107200	107
Manganese (Mn)		250	-0.577	261.3	105
Sodium (Na)			73.49	74.45	

(1) Control Limits: Metals 80-120

Low Level ICV

Sample Name	Acq Date Time	Run Sequence	Analyte	Actual Conc (ug/L)	Spiked Conc (ug/L)	Control Limits	% Recovery	QC Flag
LLICV	10/30/19 9:34 AM	191030A	Silver	0.403	0.5	80-120%	81	
LLICV	10/30/19 9:34 AM	191030A	Aluminum	40.5	50	80-120%	81	
LLICVX2	10/30/19 9:39 AM	191030A	Arsenic	3.62	4	80-120%	91	
LLICVX2	10/30/19 9:39 AM	191030A	Boron	46.20	50	80-120%	92	
LLICV	10/30/19 9:34 AM	191030A	Barium	1.627	1.5	80-120%	108	
LLICV	10/30/19 9:34 AM	191030A	Beryllium	0.945	1	80-120%	95	
LLICVX2	10/30/19 9:39 AM	191030A	Calcium	117.50	100	80-120%	118	
LLICV	10/30/19 9:34 AM	191030A	Cadmium	0.29	0.25	80-120%	114	
LLICV	10/30/19 9:34 AM	191030A	Cobalt	2.614	2.5	80-120%	105	
LLICV	10/30/19 9:34 AM	191030A	Chromium	0.56	0.5	80-120%	112	
LLICVX2	10/30/19 9:39 AM	191030A	Copper	5.53	5	80-120%	111	
LLICV	10/30/19 9:34 AM	191030A	Iron	27.73	25	80-120%	111	
LLICV	10/30/19 9:34 AM	191030A	Potassium	430.5	500	80-120%	86	
LLICV	10/30/19 9:34 AM	191030A	Magnesium	26.90	25	80-120%	108	
LLICVX6	10/30/19 9:44 AM	191030A	Manganese	6.78	6	80-120%	113	
LLICV	10/30/19 9:34 AM	191030A	Molybdenum	1.04	1	80-120%	104	
LLICV	10/30/19 9:34 AM	191030A	Sodium	496.6	500	80-120%	99	
LLICV	10/30/19 9:34 AM	191030A	Nickel	1.197	1	80-120%	120	
LLICV	10/30/19 9:34 AM	191030A	Phosphorus	10.03	12.5	80-120%	80	
LLICVX2	10/30/19 9:39 AM	191030A	Lead	2.63	3	80-120%	88	
LLICVX2	10/30/19 9:39 AM	191030A	Antimony	3.53	4	80-120%	88	
LLICV25	10/30/19 10:22:AM	191030A	Selenium	26.91	25.00	80-120%	108	
LLICV	10/30/19 9:34 AM	191030A	Tin	2.697	3	80-120%	90	
LLICVX2	10/30/19 9:39 AM	191030A	Strontium	2.007	2	80-120%	100	
LLICV	10/30/19 9:34 AM	191030A	Titanium	2.06	2.5	80-120%	82	
LLICV5	10/30/19 10:13 AM	191030A	Thallium	5.79	5.00	80-120%	116	
LLICV	10/30/19 9:34 AM	191030A	Vanadium	0.50	0.5	80-120%	100	
LLICV	10/30/19 9:34 AM	191030A	Zinc	26.76	25	80-120%	107	

Sequence No.: 1
 Sample ID: CalBlk 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 10/30/19 8:56:52 AM
 Data Type: Reprocessed on 10/30/19 2:40:39 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CalBlk 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1265196.0	14645.00	1.16%	100.0	%
Y 371.029 Radial	1209055.5	14810.81	1.22%	100.0	%
Ag 338.289†	-171.1	73.62	43.03%	[0.00]	ug/L
Al 308.215†	37.2	3.92	10.56%	[0.00]	ug/L
As 188.979†	-69.1	8.17	11.83%	[0.00]	ug/L
B†	174.9	12.02	6.87%	[0.00]	ug/L
Ba 233.527†	97.8	4.31	4.41%	[0.00]	ug/L
Be 313.107†	5.0	5.43	109.66%	[0.00]	ug/L
Ca 315.887†	14.4	10.33	71.76%	[0.00]	ug/L
Cd 214.440†	-254.0	3.67	1.44%	[0.00]	ug/L
Co 228.616†	82.6	17.40	21.06%	[0.00]	ug/L
Cr 267.716†	243.9	25.47	10.44%	[0.00]	ug/L
Cu 327.393†	-496.0	170.89	34.46%	[0.00]	ug/L
Fe 273.955†	34.9	3.90	11.18%	[0.00]	ug/L
K 766.490†	1604.6	71.42	4.45%	[0.00]	ug/L
Mg 285.213†	-13.5	4.45	33.06%	[0.00]	ug/L
Mn 257.610†	-91.0	4.64	5.09%	[0.00]	ug/L
Mo 202.031†	53.9	1.01	1.87%	[0.00]	ug/L
Na 589.592†	1290.9	115.02	8.91%	[0.00]	ug/L
Ni 231.604†	51.1	20.36	39.81%	[0.00]	ug/L
P 213.617†	-120.5	2.32	1.92%	[0.00]	ug/L
Pb 220.353†	18.0	2.05	11.38%	[0.00]	ug/L
Sb 206.836†	-29.8	2.24	7.54%	[0.00]	ug/L
Se 196.026†	-1.3	3.18	242.44%	[0.00]	ug/L
Sn 189.927†	11.2	5.15	46.11%	[0.00]	ug/L
Sr 421.552†	-124.7	76.29	61.16%	[0.00]	ug/L
Ti 337.279†	-127.7	11.36	8.89%	[0.00]	ug/L
Tl 190.801†	-101.9	3.22	3.16%	[0.00]	ug/L
V 292.402†	-350.1	83.35	23.81%	[0.00]	ug/L
Zn 206.200†	-463.8	9.66	2.08%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: STD 1 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 10/30/19 9:01:35 AM
 Data Type: Reprocessed on 10/30/19 2:40:40 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: STD 1 191030 I:PB O:PW

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1268026.0	17466.24	1.38%	100.2	%
Y 371.029 Radial	1211618.7	17709.68	1.46%	100.2	%
Ag 338.289†	20.2	63.54	314.42%	[0.5]	ug/L
Al 308.215†	13.3	5.23	39.38%	[50]	ug/L
As 188.979†	15.8	10.33	65.28%	[2]	ug/L
B†	1084.2	4.39	0.40%	[25]	ug/L
Ba 233.527†	180.0	9.01	5.00%	[1.5]	ug/L
Be 313.107†	57.1	5.87	10.29%	[1]	ug/L
Ca 315.887†	97.6	7.66	7.85%	[50]	ug/L
Cd 214.440†	18.8	11.34	60.42%	[0.25]	ug/L
Co 228.616†	129.7	15.16	11.69%	[2.5]	ug/L
Cr 267.716†	49.2	9.14	18.58%	[0.5]	ug/L
Cu 327.393†	196.6	50.03	25.45%	[2.5]	ug/L
Fe 273.955†	438.2	17.19	3.92%	[25]	ug/L
K 766.490†	1011.1	77.12	7.63%	[500]	ug/L
Mg 285.213†	54.3	5.94	10.93%	[25]	ug/L
Mn 257.610†	14.3	7.73	54.23%	[1]	ug/L
Mo 202.031†	21.3	8.74	41.08%	[1]	ug/L
Na 589.592†	1384.6	104.88	7.57%	[500]	ug/L
Ni 231.604†	45.5	4.66	10.24%	[1]	ug/L
P 213.617†	40.6	3.91	9.61%	[12.5]	ug/L
Pb 220.353†	13.6	10.82	79.67%	[1.5]	ug/L
Sb 206.836†	4.5	2.24	49.22%	[2]	ug/L
Se 196.026†	5.6	13.25	236.48%	[2]	ug/L
Sn 189.927†	32.4	1.27	3.92%	[3]	ug/L
Sr 421.552†	167.8	52.45	31.25%	[1]	ug/L
Ti 337.279†	15.6	6.84	43.79%	[2.5]	ug/L
Tl 190.801†	11.9	3.06	25.81%	[2]	ug/L
V 292.402†	77.8	60.84	78.18%	[0.5]	ug/L
Zn 206.200†	1295.3	4.63	0.36%	[25]	ug/L

Sequence No.: 3
 Sample ID: STD 2 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 10/30/19 9:06:28 AM
 Data Type: Reprocessed on 10/30/19 2:40:42 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: STD 2 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1212292.0	12033.70	0.99%	95.82	%
Y 371.029 Radial	1155348.4	11972.77	1.04%	95.56	%
Ag 338.289†	18252.9	247.73	1.36%	[250]	ug/L
Al 308.215†	2640.1	28.45	1.08%	[10000]	ug/L
As 188.979†	1601.2	11.73	0.73%	[500]	ug/L
B†	20766.6	212.99	1.03%	[500]	ug/L
Ba 233.527†	53490.1	558.73	1.04%	[500]	ug/L
Be 313.107†	31318.9	146.06	0.47%	[500]	ug/L
Ca 315.887†	34286.8	394.73	1.15%	[25000]	ug/L
Cd 214.440†	69981.5	760.79	1.09%	[500]	ug/L
Co 228.616†	23277.7	170.82	0.73%	[500]	ug/L
Cr 267.716†	37802.5	337.47	0.89%	[500]	ug/L
Cu 327.393†	41242.1	339.85	0.82%	[500]	ug/L
Fe 273.955†	156164.6	1695.77	1.09%	[10000]	ug/L
K 766.490†	19022.1	146.18	0.77%	[10000]	ug/L
Mg 285.213†	53115.8	46.24	0.09%	[25000]	ug/L
Mn 257.610†	2891.3	35.80	1.24%	[500]	ug/L
Mo 202.031†	13320.7	138.77	1.04%	[500]	ug/L
Na 589.592†	38102.8	196.26	0.52%	[12500]	ug/L
Ni 231.604†	18991.5	203.80	1.07%	[500]	ug/L
P 213.617†	8257.2	87.06	1.05%	[2500]	ug/L
Pb 220.353†	5098.0	57.79	1.13%	[500]	ug/L
Sb 206.836†	1996.3	29.52	1.48%	[500]	ug/L
Se 196.026†	1399.2	17.17	1.23%	[500]	ug/L
Sn 189.927†	4735.2	42.24	0.89%	[500]	ug/L
Sr 421.552†	68651.1	207.34	0.30%	[500]	ug/L
Ti 337.279†	3513.1	52.76	1.50%	[500]	ug/L
Tl 190.801†	2071.9	23.72	1.14%	[500]	ug/L
V 292.402†	68966.4	732.98	1.06%	[500]	ug/L
Zn 206.200†	24629.0	227.65	0.92%	[500]	ug/L

Sequence No.: 4
 Sample ID: STD 3 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 10/30/19 9:11:10 AM
 Data Type: Reprocessed on 10/30/19 2:40:43 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: STD 3 191030 I:PB O:PW

Analyte	Mean Corrected	Std.Dev.	RSD	Conc.	Units
Y 371.029	1186935.1	10126.54	0.85%	93.81	%
Y 371.029 Radial	1130125.2	10207.49	0.90%	93.47	%
Ag 338.289†	36790.4	437.37	1.19%	[500]	ug/L
Al 308.215†	5236.4	87.27	1.67%	[20000]	ug/L
As 188.979†	3231.4	19.33	0.60%	[1000]	ug/L
B†	42183.1	266.65	0.63%	[1000]	ug/L
Ba 233.527†	107265.0	918.39	0.86%	[1000]	ug/L
Be 313.107†	63234.0	771.29	1.22%	[1000]	ug/L
Ca 315.887†	67804.4	1658.40	2.45%	[50000]	ug/L
Cd 214.440†	139385.1	862.09	0.62%	[1000]	ug/L
Co 228.616†	46514.5	390.10	0.84%	[1000]	ug/L
Cr 267.716†	75741.3	429.46	0.57%	[1000]	ug/L
Cu 327.393†	83698.5	598.26	0.71%	[1000]	ug/L
Fe 273.955†	312908.5	2470.23	0.79%	[20000]	ug/L
K 766.490†	39114.0	604.46	1.55%	[20000]	ug/L
Mg 285.213†	106513.2	945.59	0.89%	[50000]	ug/L
Mn 257.610†	5730.4	122.32	2.13%	[1000]	ug/L
Mo 202.031†	26576.5	222.77	0.84%	[1000]	ug/L
Na 589.592†	77241.9	738.85	0.96%	[25000]	ug/L
Ni 231.604†	37678.0	246.98	0.66%	[1000]	ug/L
P 213.617†	16671.1	129.37	0.78%	[5000]	ug/L
Pb 220.353†	10016.4	70.30	0.70%	[1000]	ug/L
Sb 206.836†	3995.4	34.14	0.85%	[1000]	ug/L
Se 196.026†	2799.0	32.65	1.17%	[1000]	ug/L
Sn 189.927†	9359.7	65.91	0.70%	[1000]	ug/L
Sr 421.552†	138618.9	1369.33	0.99%	[1000]	ug/L
Ti 337.279†	6975.1	199.81	2.86%	[1000]	ug/L
Tl 190.801†	4102.5	37.55	0.92%	[1000]	ug/L
V 292.402†	139507.1	999.95	0.72%	[1000]	ug/L
Zn 206.200†	49055.3	439.88	0.90%	[1000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	73.47	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	0.2623	0.00000	0.999994	
As 188.979	3	Lin Thru 0	0.0	3.226	0.00000	0.999990	
B	3	Lin Thru 0	0.0	42.05	0.00000	0.999981	
Ba 233.527	3	Lin Thru 0	0.0	107.2	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	63.11	0.00000	0.999993	
Ca 315.887	3	Lin Thru 0	0.0	1.359	0.00000	0.999990	
Cd 214.440	3	Lin Thru 0	0.0	139.5	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	46.52	0.00000	1.000000	
Cr 267.716	3	Lin Thru 0	0.0	75.71	0.00000	1.000000	
Cu 327.393	3	Lin Thru 0	0.0	83.46	0.00000	0.999983	
Fe 273.955	3	Lin Thru 0	0.0	15.64	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	1.945	0.00000	0.999939	
Mg 285.213	3	Lin Thru 0	0.0	2.129	0.00000	0.999999	
Mn 257.610	3	Lin Thru 0	0.0	5.741	0.00000	0.999992	
Mo 202.031	3	Lin Thru 0	0.0	26.59	0.00000	1.000000	
Na 589.592	3	Lin Thru 0	0.0	3.081	0.00000	0.999984	
Ni 231.604	3	Lin Thru 0	0.0	37.74	0.00000	0.999995	
P 213.617	3	Lin Thru 0	0.0	3.328	0.00000	0.999993	
Pb 220.353	3	Lin Thru 0	0.0	10.05	0.00000	0.999974	
Sb 206.836	3	Lin Thru 0	0.0	3.995	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	2.799	0.00000	1.000000	
Sn 189.927	3	Lin Thru 0	0.0	9.382	0.00000	0.999989	
Sr 421.552	3	Lin Thru 0	0.0	138.4	0.00000	0.999993	

Ti 337.279	3	Lin Thru 0	0.0	6.985	0.00000	0.999996
Tl 190.801	3	Lin Thru 0	0.0	4.111	0.00000	0.999992
V 292.402	3	Lin Thru 0	0.0	139.2	0.00000	0.999990
Zn 206.200	3	Lin Thru 0	0.0	49.10	0.00000	0.999998

Sequence No.: 5

Sample ID: ICV 191030 I:PB O:PW

Analyst:

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 10/30/19 9:14:58 AM

Data Type: Reprocessed on 10/30/19 2:40:44 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICV 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1212578.6	95.84 %	0.403			0.42%
Y 371.029 Radial	1155898.3	95.60 %	0.408			0.43%
Ag 338.289†	18399.5	252.6 ug/L	1.16	252.6 ug/L	1.16	0.46%
QC value within limits for Ag 338.289 Recovery = 101.05%						
Al 308.215†	3320.7	12670 ug/L	108.8	12670 ug/L	108.8	0.86%
QC value within limits for Al 308.215 Recovery = 101.35%						
As 188.979†	1601.0	500.6 ug/L	2.68	500.6 ug/L	2.68	0.54%
QC value within limits for As 188.979 Recovery = 100.12%						
B†	21331.5	507.2 ug/L	1.12	507.2 ug/L	1.12	0.22%
QC value within limits for B Recovery = 101.45%						
Ba 233.527†	54032.5	503.2 ug/L	2.59	503.2 ug/L	2.59	0.51%
QC value within limits for Ba 233.527 Recovery = 100.64%						
Be 313.107†	30922.9	491.5 ug/L	6.12	491.5 ug/L	6.12	1.25%
QC value within limits for Be 313.107 Recovery = 98.29%						
Ca 315.887†	17080.2	12560 ug/L	111.8	12560 ug/L	111.8	0.89%
QC value within limits for Ca 315.887 Recovery = 100.50%						
Cd 214.440†	70454.1	504.9 ug/L	1.46	504.9 ug/L	1.46	0.29%
QC value within limits for Cd 214.440 Recovery = 100.99%						
Co 228.616†	23767.7	509.0 ug/L	1.44	509.0 ug/L	1.44	0.28%
QC value within limits for Co 228.616 Recovery = 101.79%						
Cr 267.716†	37891.4	499.7 ug/L	2.07	499.7 ug/L	2.07	0.41%
QC value within limits for Cr 267.716 Recovery = 99.95%						
Cu 327.393†	41880.5	503.1 ug/L	2.89	503.1 ug/L	2.89	0.57%
QC value within limits for Cu 327.393 Recovery = 100.63%						
Fe 273.955†	212635.9	13550 ug/L	55.7	13550 ug/L	55.7	0.41%
QC value within limits for Fe 273.955 Recovery = 108.42%						
K 766.490†	23942.3	12300 ug/L	140.2	12300 ug/L	140.2	1.14%
QC value within limits for K 766.490 Recovery = 98.38%						
Mg 285.213†	27190.9	12780 ug/L	107.9	12780 ug/L	107.9	0.84%
QC value within limits for Mg 285.213 Recovery = 102.28%						
Mn 257.610†	2863.0	499.4 ug/L	4.20	499.4 ug/L	4.20	0.84%
QC value within limits for Mn 257.610 Recovery = 99.88%						
Mo 202.031†	13040.6	490.7 ug/L	2.26	490.7 ug/L	2.26	0.46%
QC value within limits for Mo 202.031 Recovery = 98.14%						
Na 589.592†	38474.6	12500 ug/L	116.6	12500 ug/L	116.6	0.93%
QC value within limits for Na 589.592 Recovery = 99.97%						
Ni 231.604†	19296.1	507.7 ug/L	3.69	507.7 ug/L	3.69	0.73%
QC value within limits for Ni 231.604 Recovery = 101.53%						
P 213.617†	8168.3	2454 ug/L	16.2	2454 ug/L	16.2	0.66%
QC value within limits for P 213.617 Recovery = 98.18%						
Pb 220.353†	5118.2	511.7 ug/L	3.18	511.7 ug/L	3.18	0.62%
QC value within limits for Pb 220.353 Recovery = 102.35%						
Sb 206.836†	1872.4	468.7 ug/L	1.65	468.7 ug/L	1.65	0.35%
QC value within limits for Sb 206.836 Recovery = 93.74%						
Se 196.026†	1397.4	505.1 ug/L	4.36	505.1 ug/L	4.36	0.86%
QC value within limits for Se 196.026 Recovery = 101.03%						
Sn 189.927†	2322.5	251.1 ug/L	2.00	251.1 ug/L	2.00	0.80%
QC value within limits for Sn 189.927 Recovery = 100.46%						
Sr 421.552†	68265.9	493.3 ug/L	4.61	493.3 ug/L	4.61	0.94%
QC value within limits for Sr 421.552 Recovery = 98.65%						
Ti 337.279†	3457.6	494.7 ug/L	4.13	494.7 ug/L	4.13	0.84%
QC value within limits for Ti 337.279 Recovery = 98.94%						
Tl 190.801†	2091.5	521.2 ug/L	4.49	521.2 ug/L	4.49	0.86%
QC value within limits for Tl 190.801 Recovery = 104.24%						
V 292.402†	68750.4	501.3 ug/L	2.12	501.3 ug/L	2.12	0.42%
QC value within limits for V 292.402 Recovery = 100.25%						
Zn 206.200†	25062.9	514.0 ug/L	0.19	514.0 ug/L	0.19	0.04%
QC value within limits for Zn 206.200 Recovery = 102.79%						

All analyte(s) passed QC.

Sequence No.: 6

Autosampler Location: 1

Sample ID: ICB 191030 I:PB O:PW

Date Collected: 10/30/19 9:29:52 AM

Analyst:

Data Type: Reprocessed on 10/30/19 2:40:46 PM

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICB 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	1262776.0	99.81 %		1.097			1.10%
Y 371.029 Radial	1206468.8	99.79 %		1.165			1.17%
Ag 338.289†	1.1	0.027 ug/L		0.6904	0.027 ug/L	0.6904	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated							
Al 308.215†	-4.5	-17.31 ug/L		10.174	-17.31 ug/L	10.174	58.78%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979†	1.2	0.382 ug/L		1.9283	0.382 ug/L	1.9283	505.28%
QC value within limits for As 188.979 Recovery = Not calculated							
B†	575.7	13.69 ug/L		0.267	13.69 ug/L	0.267	1.95%
QC value within limits for B Recovery = Not calculated							
Ba 233.527†	-10.2	-0.094 ug/L		0.0589	-0.094 ug/L	0.0589	62.98%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	1.4	0.025 ug/L		0.1359	0.025 ug/L	0.1359	554.11%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	8.5	6.262 ug/L		5.9886	6.262 ug/L	5.9886	95.64%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Cd 214.440†	6.8	0.048 ug/L		0.0883	0.048 ug/L	0.0883	184.19%
QC value within limits for Cd 214.440 Recovery = Not calculated							
Co 228.616†	-5.0	-0.109 ug/L		0.1914	-0.109 ug/L	0.1914	176.02%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-14.4	-0.192 ug/L		0.0810	-0.192 ug/L	0.0810	42.12%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-17.6	-0.205 ug/L		0.5075	-0.205 ug/L	0.5075	247.31%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 273.955†	-0.3	-0.022 ug/L		0.6009	-0.022 ug/L	0.6009	>999.9%
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490†	-196.8	-101.2 ug/L		67.71	-101.2 ug/L	67.71	66.93%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	-3.3	-1.562 ug/L		4.2480	-1.562 ug/L	4.2480	271.91%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	10.5	1.828 ug/L		0.1769	1.828 ug/L	0.1769	9.68%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.0	0.077 ug/L		0.1462	0.077 ug/L	0.1462	190.23%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-66.6	-21.58 ug/L		27.267	-21.58 ug/L	27.267	126.35%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	15.4	0.402 ug/L		0.3155	0.402 ug/L	0.3155	78.39%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 213.617†	-4.1	-1.246 ug/L		1.6791	-1.246 ug/L	1.6791	134.79%
QC value within limits for P 213.617 Recovery = Not calculated							
Pb 220.353†	-10.4	-1.039 ug/L		2.0028	-1.039 ug/L	2.0028	192.69%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-5.9	-1.482 ug/L		0.4543	-1.482 ug/L	0.4543	30.65%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.5	2.665 ug/L		3.5192	2.665 ug/L	3.5192	132.08%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-2.8	-0.293 ug/L		0.2102	-0.293 ug/L	0.2102	71.77%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	33.7	0.243 ug/L		0.1607	0.243 ug/L	0.1607	66.02%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 337.279†	5.0	0.710 ug/L		0.9306	0.710 ug/L	0.9306	131.16%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	6.4	1.581 ug/L		1.4131	1.581 ug/L	1.4131	89.37%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	8.4	0.060 ug/L		0.5313	0.060 ug/L	0.5313	885.48%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	5.2	0.112 ug/L		0.1954	0.112 ug/L	0.1954	174.11%
QC value within limits for Zn 206.200 Recovery = Not calculated							

All analyte(s) passed QC.

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=====
Sequence No.: 7                               Autosampler Location: 2
Sample ID: LLICV 191030 I:PB O:PW           Date Collected: 10/30/19 9:34:36 AM
Analyst:                                       Data Type: Reprocessed on 10/30/19 2:40:47 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Mean Data: LLICV 191030 I:PB O:PW

Analyte	Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	1272000.9	100.5 %		0.68			0.67%
Y 371.029 Radial	1216118.0	100.6 %		0.72			0.72%
Ag 338.289†	27.9	0.403 ug/L		0.7357	0.403 ug/L	0.7357	182.67%
QC value within limits for Ag 338.289 Recovery = 80.56%							
Al 308.215†	10.6	40.48 ug/L		3.948	40.48 ug/L	3.948	9.75%
QC value within limits for Al 308.215 Recovery = 80.96%							
As 188.979†	11.2	3.502 ug/L		0.2662	3.502 ug/L	0.2662	7.60%
QC value greater than the upper limit for As 188.979 Recovery = 175.12%							
B†	1348.4	32.06 ug/L		0.904	32.06 ug/L	0.904	2.82%
QC value greater than the upper limit for B Recovery = 128.25%							
Ba 233.527†	174.8	1.627 ug/L		0.0912	1.627 ug/L	0.0912	5.61%
QC value within limits for Ba 233.527 Recovery = 108.45%							
Be 313.107†	59.2	0.945 ug/L		0.1501	0.945 ug/L	0.1501	15.88%
QC value within limits for Be 313.107 Recovery = 94.47%							
Ca 315.887†	88.5	65.10 ug/L		6.587	65.10 ug/L	6.587	10.12%
QC value greater than the upper limit for Ca 315.887 Recovery = 130.20%							
Cd 214.440†	40.0	0.286 ug/L		0.0465	0.286 ug/L	0.0465	16.28%
QC value within limits for Cd 214.440 Recovery = 114.36%							
Co 228.616†	122.1	2.614 ug/L		0.2082	2.614 ug/L	0.2082	7.96%
QC value within limits for Co 228.616 Recovery = 104.57%							
Cr 267.716†	42.9	0.558 ug/L		0.2546	0.558 ug/L	0.2546	45.65%
QC value within limits for Cr 267.716 Recovery = 111.53%							
Cu 327.393†	146.7	1.745 ug/L		0.5629	1.745 ug/L	0.5629	32.26%
QC value less than the lower limit for Cu 327.393 Recovery = 69.80%							
Fe 273.955†	434.3	27.73 ug/L		0.231	27.73 ug/L	0.231	0.83%
QC value within limits for Fe 273.955 Recovery = 110.94%							
K 766.490†	837.4	430.5 ug/L		69.68	430.5 ug/L	69.68	16.19%
QC value within limits for K 766.490 Recovery = 86.10%							
Mg 285.213†	57.4	26.90 ug/L		1.770	26.90 ug/L	1.770	6.58%
QC value within limits for Mg 285.213 Recovery = 107.61%							
Mn 257.610†	14.4	2.503 ug/L		1.5321	2.503 ug/L	1.5321	61.20%
QC value greater than the upper limit for Mn 257.610 Recovery = 250.33%							
Mo 202.031†	27.8	1.037 ug/L		0.1718	1.037 ug/L	0.1718	16.57%
QC value within limits for Mo 202.031 Recovery = 103.70%							
Na 589.592†	1530.6	496.6 ug/L		31.11	496.6 ug/L	31.11	6.27%
QC value within limits for Na 589.592 Recovery = 99.32%							
Ni 231.604†	46.5	1.197 ug/L		0.1213	1.197 ug/L	0.1213	10.13%
QC value within limits for Ni 231.604 Recovery = 119.72%							
P 213.617†	33.4	10.03 ug/L		1.448	10.03 ug/L	1.448	14.43%
QC value within limits for P 213.617 Recovery = 80.25%							
Pb 220.353†	-8.8	-0.878 ug/L		2.2700	-0.878 ug/L	2.2700	258.41%
QC value less than the lower limit for Pb 220.353 Recovery = -58.56%							
Sb 206.836†	4.7	1.181 ug/L		1.1102	1.181 ug/L	1.1102	94.04%
QC value less than the lower limit for Sb 206.836 Recovery = 59.03%							
Se 196.026†	18.4	6.595 ug/L		2.1929	6.595 ug/L	2.1929	33.25%
QC value greater than the upper limit for Se 196.026 Recovery = 329.76%							
Sn 189.927†	25.2	2.697 ug/L		0.4984	2.697 ug/L	0.4984	18.48%
QC value within limits for Sn 189.927 Recovery = 89.91%							
Sr 421.552†	177.7	1.284 ug/L		0.6019	1.284 ug/L	0.6019	46.88%
QC value greater than the upper limit for Sr 421.552 Recovery = 128.39%							
Ti 337.279†	14.4	2.055 ug/L		1.3015	2.055 ug/L	1.3015	63.34%
QC value within limits for Ti 337.279 Recovery = 82.20%							
Tl 190.801†	14.6	3.585 ug/L		1.4462	3.585 ug/L	1.4462	40.34%
QC value greater than the upper limit for Tl 190.801 Recovery = 179.26%							
V 292.402†	67.8	0.499 ug/L		0.9614	0.499 ug/L	0.9614	192.81%
QC value within limits for V 292.402 Recovery = 99.73%							
Zn 206.200†	1314.9	26.76 ug/L		0.121	26.76 ug/L	0.121	0.45%
QC value within limits for Zn 206.200 Recovery = 107.02%							
QC Failed. Continue with analysis.							

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Sequence No.: 8                               Autosampler Location: 10
Sample ID: LLICVX2 191030 I:PB O:PW         Date Collected: 10/30/19 9:39:21 AM
Analyst:                                       Data Type: Reprocessed on 10/30/19 2:40:48 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Mean Data: LLICVX2 191030 I:PB O:PW

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	1265255.3	100.0 %	0.17			0.17%
Y 371.029 Radial	1209624.4	100.0 %	0.21			0.21%
Ag 338.289†	52.8	0.777 ug/L	1.2058	0.777 ug/L	1.2058	155.23%
QC value less than the lower limit for Ag 338.289 Recovery = 77.68%						
Al 308.215†	23.3	88.87 ug/L	5.528	88.87 ug/L	5.528	6.22%
QC value within limits for Al 308.215 Recovery = 88.87%						
As 188.979†	11.5	3.622 ug/L	0.4545	3.622 ug/L	0.4545	12.55%
QC value within limits for As 188.979 Recovery = 90.55%						
B†	1942.8	46.20 ug/L	0.339	46.20 ug/L	0.339	0.73%
QC value within limits for B Recovery = 92.40%						
Ba 233.527†	339.2	3.156 ug/L	0.1859	3.156 ug/L	0.1859	5.89%
QC value within limits for Ba 233.527 Recovery = 105.20%						
Be 313.107†	118.9	1.899 ug/L	0.1716	1.899 ug/L	0.1716	9.04%
QC value within limits for Be 313.107 Recovery = 94.93%						
Ca 315.887†	159.9	117.5 ug/L	8.48	117.5 ug/L	8.48	7.21%
QC value within limits for Ca 315.887 Recovery = 117.54%						
Cd 214.440†	79.4	0.568 ug/L	0.0935	0.568 ug/L	0.0935	16.46%
QC value within limits for Cd 214.440 Recovery = 113.58%						
Co 228.616†	251.7	5.387 ug/L	0.3801	5.387 ug/L	0.3801	7.06%
QC value within limits for Co 228.616 Recovery = 107.74%						
Cr 267.716†	77.3	1.003 ug/L	0.0880	1.003 ug/L	0.0880	8.77%
QC value within limits for Cr 267.716 Recovery = 100.28%						
Cu 327.393†	463.6	5.529 ug/L	1.1624	5.529 ug/L	1.1624	21.02%
QC value within limits for Cu 327.393 Recovery = 110.57%						
Fe 273.955†	827.4	52.85 ug/L	0.800	52.85 ug/L	0.800	1.51%
QC value within limits for Fe 273.955 Recovery = 105.69%						
K 766.490†	1672.5	859.9 ug/L	47.89	859.9 ug/L	47.89	5.57%
QC value within limits for K 766.490 Recovery = 85.99%						
Mg 285.213†	104.5	48.93 ug/L	4.155	48.93 ug/L	4.155	8.49%
QC value within limits for Mg 285.213 Recovery = 97.86%						
Mn 257.610†	20.0	3.499 ug/L	0.6470	3.499 ug/L	0.6470	18.49%
QC value greater than the upper limit for Mn 257.610 Recovery = 174.94%						
Mo 202.031†	49.2	1.835 ug/L	0.1642	1.835 ug/L	0.1642	8.95%
QC value within limits for Mo 202.031 Recovery = 91.75%						
Na 589.592†	2920.7	947.6 ug/L	28.24	947.6 ug/L	28.24	2.98%
QC value within limits for Na 589.592 Recovery = 94.76%						
Ni 231.604†	76.7	1.964 ug/L	0.3277	1.964 ug/L	0.3277	16.68%
QC value within limits for Ni 231.604 Recovery = 98.22%						
P 213.617†	79.3	23.81 ug/L	0.292	23.81 ug/L	0.292	1.23%
QC value within limits for P 213.617 Recovery = 95.25%						
Pb 220.353†	26.4	2.630 ug/L	0.7839	2.630 ug/L	0.7839	29.81%
QC value within limits for Pb 220.353 Recovery = 87.66%						
Sb 206.836†	14.1	3.532 ug/L	1.0125	3.532 ug/L	1.0125	28.66%
QC value within limits for Sb 206.836 Recovery = 88.31%						
Se 196.026†	15.7	5.608 ug/L	1.1362	5.608 ug/L	1.1362	20.26%
QC value greater than the upper limit for Se 196.026 Recovery = 140.20%						
Sn 189.927†	52.9	5.677 ug/L	0.6118	5.677 ug/L	0.6118	10.78%
QC value within limits for Sn 189.927 Recovery = 94.62%						
Sr 421.552†	277.8	2.007 ug/L	0.0393	2.007 ug/L	0.0393	1.96%
QC value within limits for Sr 421.552 Recovery = 100.34%						
Ti 337.279†	34.8	4.981 ug/L	1.3486	4.981 ug/L	1.3486	27.08%
QC value within limits for Ti 337.279 Recovery = 99.61%						
Tl 190.801†	25.5	6.273 ug/L	0.7824	6.273 ug/L	0.7824	12.47%
QC value greater than the upper limit for Tl 190.801 Recovery = 156.82%						
V 292.402†	137.7	1.008 ug/L	0.5790	1.008 ug/L	0.5790	57.42%
QC value within limits for V 292.402 Recovery = 100.85%						
Zn 206.200†	2562.6	52.14 ug/L	0.198	52.14 ug/L	0.198	0.38%
QC value within limits for Zn 206.200 Recovery = 104.28%						
QC Failed. Continue with analysis.						

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Sequence No.: 9                               Autosampler Location: 11
Sample ID: LLICVX6 191030 I:PB O:PW         Date Collected: 10/30/19 9:44:08 AM
Analyst:                                       Data Type: Reprocessed on 10/30/19 2:40:49 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: LLICVX6 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1260657.4	99.64 %		0.739			0.74%
Y 371.029 Radial	1205653.3	99.72 %		0.768			0.77%
Ag 338.289†	204.2	2.947 ug/L		1.4032	2.947 ug/L	1.4032	47.62%
QC value within limits for Ag 338.289 Recovery = 98.23%							
Al 308.215†	73.7	280.5 ug/L		20.20	280.5 ug/L	20.20	7.20%
QC value within limits for Al 308.215 Recovery = 93.49%							
As 188.979†	43.6	13.65 ug/L		1.594	13.65 ug/L	1.594	11.68%
QC value within limits for As 188.979 Recovery = 113.74%							
B†	5931.8	141.1 ug/L		1.82	141.1 ug/L	1.82	1.29%
QC value within limits for B Recovery = 94.04%							
Ba 233.527†	1029.6	9.578 ug/L		0.1607	9.578 ug/L	0.1607	1.68%
QC value within limits for Ba 233.527 Recovery = 106.43%							
Be 313.107†	363.7	5.805 ug/L		0.0790	5.805 ug/L	0.0790	1.36%
QC value within limits for Be 313.107 Recovery = 96.75%							
Ca 315.887†	431.2	317.0 ug/L		8.23	317.0 ug/L	8.23	2.60%
QC value within limits for Ca 315.887 Recovery = 105.66%							
Cd 214.440†	231.7	1.657 ug/L		0.1343	1.657 ug/L	0.1343	8.11%
QC value within limits for Cd 214.440 Recovery = 110.46%							
Co 228.616†	769.6	16.48 ug/L		0.377	16.48 ug/L	0.377	2.28%
QC value within limits for Co 228.616 Recovery = 109.86%							
Cr 267.716†	233.3	3.030 ug/L		0.1785	3.030 ug/L	0.1785	5.89%
QC value within limits for Cr 267.716 Recovery = 101.00%							
Cu 327.393†	1314.5	15.67 ug/L		0.524	15.67 ug/L	0.524	3.34%
QC value within limits for Cu 327.393 Recovery = 104.44%							
Fe 273.955†	2418.6	154.5 ug/L		2.64	154.5 ug/L	2.64	1.71%
QC value within limits for Fe 273.955 Recovery = 103.00%							
K 766.490†	5531.4	2844 ug/L		54.6	2844 ug/L	54.6	1.92%
QC value within limits for K 766.490 Recovery = 94.79%							
Mg 285.213†	319.4	149.5 ug/L		1.77	149.5 ug/L	1.77	1.19%
QC value within limits for Mg 285.213 Recovery = 99.68%							
Mn 257.610†	38.8	6.783 ug/L		0.1588	6.783 ug/L	0.1588	2.34%
QC value within limits for Mn 257.610 Recovery = 113.06%							
Mo 202.031†	152.6	5.692 ug/L		0.3182	5.692 ug/L	0.3182	5.59%
QC value within limits for Mo 202.031 Recovery = 94.87%							
Na 589.592†	8929.5	2897 ug/L		27.3	2897 ug/L	27.3	0.94%
QC value within limits for Na 589.592 Recovery = 96.57%							
Ni 231.604†	231.1	5.935 ug/L		0.1936	5.935 ug/L	0.1936	3.26%
QC value within limits for Ni 231.604 Recovery = 98.92%							
P 213.617†	234.6	70.49 ug/L		1.488	70.49 ug/L	1.488	2.11%
QC value within limits for P 213.617 Recovery = 93.99%							
Pb 220.353†	84.8	8.436 ug/L		1.7448	8.436 ug/L	1.7448	20.68%
QC value within limits for Pb 220.353 Recovery = 93.73%							
Sb 206.836†	44.8	11.23 ug/L		0.456	11.23 ug/L	0.456	4.06%
QC value within limits for Sb 206.836 Recovery = 93.54%							
Se 196.026†	44.0	15.74 ug/L		3.126	15.74 ug/L	3.126	19.87%
QC value greater than the upper limit for Se 196.026 Recovery = 131.13%							
Sn 189.927†	169.4	18.16 ug/L		0.808	18.16 ug/L	0.808	4.45%
QC value within limits for Sn 189.927 Recovery = 100.87%							
Sr 421.552†	852.9	6.161 ug/L		0.2417	6.161 ug/L	0.2417	3.92%
QC value within limits for Sr 421.552 Recovery = 102.68%							
Ti 337.279†	100.3	14.35 ug/L		0.147	14.35 ug/L	0.147	1.03%
QC value within limits for Ti 337.279 Recovery = 95.65%							
Tl 190.801†	55.0	13.55 ug/L		0.361	13.55 ug/L	0.361	2.66%
QC value within limits for Tl 190.801 Recovery = 112.93%							
V 292.402†	363.3	2.671 ug/L		0.0739	2.671 ug/L	0.0739	2.77%
QC value within limits for V 292.402 Recovery = 89.04%							
Zn 206.200†	7644.6	155.5 ug/L		3.16	155.5 ug/L	3.16	2.03%
QC value within limits for Zn 206.200 Recovery = 103.70%							
QC Failed. Continue with analysis.							

Sequence No.: 10

Sample ID: ICSA 191030 I:PB O:PW

Analyst:

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/30/19 9:55:31 AM

Data Type: Reprocessed on 10/30/19 2:40:51 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	1175784.0	92.93 %		0.277				0.30%
Y 371.029 Radial	1119363.3	92.58 %		0.297				0.32%
Ag 338.289†	-2.4	-0.881 ug/L		1.5557	-0.881 ug/L		1.5557	176.53%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215†	27393.4	104400 ug/L		818.9	104400 ug/L		818.9	0.78%
QC value within limits for Al 308.215 Recovery = 104.43%								
As 188.979†	-83.7	-2.970 ug/L		4.1274	-2.970 ug/L		4.1274	138.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B†	-413.0	-9.820 ug/L		0.4126	-9.820 ug/L		0.4126	4.20%
QC value within limits for B Recovery = Not calculated								
Ba 233.527†	640.7	-3.295 ug/L		0.0331	-3.295 ug/L		0.0331	1.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	5.5	0.613 ug/L		0.0518	0.613 ug/L		0.0518	8.45%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	137631.6	101300 ug/L		2073.3	101300 ug/L		2073.3	2.05%
QC value within limits for Ca 315.887 Recovery = 101.25%								
Cd 214.440†	550.0	0.570 ug/L		0.1397	0.570 ug/L		0.1397	24.51%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	340.3	0.421 ug/L		0.3160	0.421 ug/L		0.3160	75.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-226.6	-1.527 ug/L		0.3874	-1.527 ug/L		0.3874	25.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-637.3	-2.104 ug/L		0.1331	-2.104 ug/L		0.1331	6.33%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	1531951.3	97930 ug/L		574.2	97930 ug/L		574.2	0.59%
QC value within limits for Fe 273.955 Recovery = 97.93%								
K 766.490†	-160.0	-157.1 ug/L		52.79	-157.1 ug/L		52.79	33.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	216330.5	101700 ug/L		2053.4	101700 ug/L		2053.4	2.02%
QC value within limits for Mg 285.213 Recovery = 101.72%								
Mn 257.610†	-33.2	-0.577 ug/L		1.3447	-0.577 ug/L		1.3447	232.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-175.1	-2.104 ug/L		0.4708	-2.104 ug/L		0.4708	22.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-103.7	73.49 ug/L		9.258	73.49 ug/L		9.258	12.60%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	49.0	-1.245 ug/L		0.6085	-1.245 ug/L		0.6085	48.89%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617†	-70.2	-21.10 ug/L		0.333	-21.10 ug/L		0.333	1.58%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353†	-139.3	-0.511 ug/L		0.6283	-0.511 ug/L		0.6283	123.04%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-10.2	-2.551 ug/L		1.8999	-2.551 ug/L		1.8999	74.46%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-108.0	4.212 ug/L		2.1784	4.212 ug/L		2.1784	51.72%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-33.8	0.133 ug/L		0.8098	0.133 ug/L		0.8098	607.15%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552†	190.1	0.325 ug/L		0.0366	0.325 ug/L		0.0366	11.28%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279†	-8.5	-3.285 ug/L		1.5651	-3.285 ug/L		1.5651	47.65%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	-14.0	3.680 ug/L		0.1865	3.680 ug/L		0.1865	5.07%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	2814.0	-0.546 ug/L		0.9960	-0.546 ug/L		0.9960	182.51%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	273.2	-0.551 ug/L		0.7367	-0.551 ug/L		0.7367	133.71%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 11                               Autosampler Location: 7
Sample ID: ICSAB 191030 I:PB O:PW             Date Collected: 10/30/19 10:00:37 AM
Analyst:                                       Data Type: Reprocessed on 10/30/19 2:40:52 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: ICSAB 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1160995.0	91.76 %	0.719			0.78%
Y 371.029 Radial	1103382.8	91.26 %	0.739			0.81%
Ag 338.289†	41131.8	556.5 ug/L	3.38	556.5 ug/L	3.38	0.61%
QC value within limits for Ag 338.289 Recovery = 111.31%						
Al 308.215†	28664.1	109300 ug/L	995.9	109300 ug/L	995.9	0.91%
QC value within limits for Al 308.215 Recovery = 109.28%						
As 188.979†	767.8	260.6 ug/L	2.02	260.6 ug/L	2.02	0.78%
QC value within limits for As 188.979 Recovery = 104.24%						
B†	-472.6	-11.24 ug/L	0.294	-11.24 ug/L	0.294	2.62%
QC value within limits for B Recovery = Not calculated						
Ba 233.527†	30028.0	270.6 ug/L	1.73	270.6 ug/L	1.73	0.64%
QC value within limits for Ba 233.527 Recovery = 108.23%						
Be 313.107†	16743.9	265.9 ug/L	3.10	265.9 ug/L	3.10	1.16%
QC value within limits for Be 313.107 Recovery = 106.35%						
Ca 315.887†	144719.6	106500 ug/L	1095.8	106500 ug/L	1095.8	1.03%
QC value within limits for Ca 315.887 Recovery = 106.46%						
Cd 214.440†	71469.6	509.0 ug/L	4.48	509.0 ug/L	4.48	0.88%
QC value within limits for Cd 214.440 Recovery = 101.80%						
Co 228.616†	12588.4	263.3 ug/L	1.45	263.3 ug/L	1.45	0.55%
QC value within limits for Co 228.616 Recovery = 105.34%						
Cr 267.716†	20383.2	270.2 ug/L	1.63	270.2 ug/L	1.63	0.60%
QC value within limits for Cr 267.716 Recovery = 108.08%						
Cu 327.393†	22445.3	273.5 ug/L	1.89	273.5 ug/L	1.89	0.69%
QC value within limits for Cu 327.393 Recovery = 109.40%						
Fe 273.955†	1584782.2	101300 ug/L	820.6	101300 ug/L	820.6	0.81%
QC value within limits for Fe 273.955 Recovery = 101.29%						
K 766.490†	-50.1	-105.4 ug/L	18.69	-105.4 ug/L	18.69	17.74%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	227959.9	107200 ug/L	986.6	107200 ug/L	986.6	0.92%
QC value within limits for Mg 285.213 Recovery = 107.19%						
Mn 257.610†	1469.2	261.3 ug/L	1.40	261.3 ug/L	1.40	0.54%
QC value within limits for Mn 257.610 Recovery = 104.54%						
Mo 202.031†	6564.4	251.4 ug/L	1.69	251.4 ug/L	1.69	0.67%
QC value within limits for Mo 202.031 Recovery = 100.57%						
Na 589.592†	-117.0	74.45 ug/L	7.806	74.45 ug/L	7.806	10.48%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	19526.4	513.2 ug/L	3.61	513.2 ug/L	3.61	0.70%
QC value within limits for Ni 231.604 Recovery = 102.64%						
P 213.617†	-190.7	-57.31 ug/L	0.996	-57.31 ug/L	0.996	1.74%
QC value within limits for P 213.617 Recovery = Not calculated						
Pb 220.353†	5031.1	515.0 ug/L	3.37	515.0 ug/L	3.37	0.65%
QC value within limits for Pb 220.353 Recovery = 103.00%						
Sb 206.836†	1024.1	256.4 ug/L	1.64	256.4 ug/L	1.64	0.64%
QC value within limits for Sb 206.836 Recovery = 102.55%						
Se 196.026†	628.9	269.1 ug/L	4.67	269.1 ug/L	4.67	1.74%
QC value within limits for Se 196.026 Recovery = 107.62%						
Sn 189.927†	-27.7	0.992 ug/L	0.7278	0.992 ug/L	0.7278	73.38%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	168.1	0.112 ug/L	0.3091	0.112 ug/L	0.3091	274.97%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 337.279†	-15.6	-4.401 ug/L	1.8003	-4.401 ug/L	1.8003	40.90%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	1051.6	266.3 ug/L	2.82	266.3 ug/L	2.82	1.06%
QC value within limits for Tl 190.801 Recovery = 106.54%						
V 292.402†	38326.4	259.4 ug/L	2.09	259.4 ug/L	2.09	0.81%
QC value within limits for V 292.402 Recovery = 103.76%						
Zn 206.200†	26308.4	529.1 ug/L	3.12	529.1 ug/L	3.12	0.59%
QC value within limits for Zn 206.200 Recovery = 105.82%						

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCV1 191030 I:PB O:PW

Analyst:

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/30/19 1:20:40 PM

Data Type: Reprocessed on 10/30/19 2:40:53 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV1 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1229015.5	97.14 %		0.263			0.27%
Y 371.029 Radial	1171934.3	96.93 %		0.308			0.32%
Ag 338.289†	18414.4	252.7 ug/L		1.61	252.7 ug/L	1.61	0.64%
QC value within limits for Ag 338.289 Recovery = 101.09%							
Al 308.215†	2621.7	10000 ug/L		66.3	10000 ug/L	66.3	0.66%
QC value within limits for Al 308.215 Recovery = 100.01%							
As 188.979†	1647.3	514.0 ug/L		0.76	514.0 ug/L	0.76	0.15%
QC value within limits for As 188.979 Recovery = 102.80%							
B†	20485.9	487.1 ug/L		5.61	487.1 ug/L	5.61	1.15%
QC value within limits for B Recovery = 97.43%							
Ba 233.527†	53870.5	501.9 ug/L		3.16	501.9 ug/L	3.16	0.63%
QC value within limits for Ba 233.527 Recovery = 100.38%							
Be 313.107†	31962.7	507.9 ug/L		2.68	507.9 ug/L	2.68	0.53%
QC value within limits for Be 313.107 Recovery = 101.59%							
Ca 315.887†	34121.2	25100 ug/L		116.4	25100 ug/L	116.4	0.46%
QC value within limits for Ca 315.887 Recovery = 100.40%							
Cd 214.440†	70165.4	503.0 ug/L		2.62	503.0 ug/L	2.62	0.52%
QC value within limits for Cd 214.440 Recovery = 100.59%							
Co 228.616†	23582.9	505.1 ug/L		3.41	505.1 ug/L	3.41	0.68%
QC value within limits for Co 228.616 Recovery = 101.02%							
Cr 267.716†	38087.8	502.2 ug/L		1.59	502.2 ug/L	1.59	0.32%
QC value within limits for Cr 267.716 Recovery = 100.43%							
Cu 327.393†	41631.8	499.2 ug/L		5.19	499.2 ug/L	5.19	1.04%
QC value within limits for Cu 327.393 Recovery = 99.83%							
Fe 273.955†	157791.7	10040 ug/L		59.2	10040 ug/L	59.2	0.59%
QC value within limits for Fe 273.955 Recovery = 100.43%							
K 766.490†	18927.4	9718 ug/L		38.4	9718 ug/L	38.4	0.40%
QC value within limits for K 766.490 Recovery = 97.18%							
Mg 285.213†	53547.1	25160 ug/L		89.3	25160 ug/L	89.3	0.35%
QC value within limits for Mg 285.213 Recovery = 100.64%							
Mn 257.610†	2884.8	502.4 ug/L		1.89	502.4 ug/L	1.89	0.38%
QC value within limits for Mn 257.610 Recovery = 100.48%							
Mo 202.031†	12944.2	486.9 ug/L		4.32	486.9 ug/L	4.32	0.89%
QC value within limits for Mo 202.031 Recovery = 97.38%							
Na 589.592†	37300.3	12120 ug/L		34.1	12120 ug/L	34.1	0.28%
QC value within limits for Na 589.592 Recovery = 96.96%							
Ni 231.604†	19172.8	504.3 ug/L		1.19	504.3 ug/L	1.19	0.24%
QC value within limits for Ni 231.604 Recovery = 100.87%							
P 213.617†	8495.9	2553 ug/L		8.3	2553 ug/L	8.3	0.32%
QC value within limits for P 213.617 Recovery = 102.12%							
Pb 220.353†	5163.0	515.4 ug/L		2.01	515.4 ug/L	2.01	0.39%
QC value within limits for Pb 220.353 Recovery = 103.09%							
Sb 206.836†	2020.9	505.9 ug/L		1.11	505.9 ug/L	1.11	0.22%
QC value within limits for Sb 206.836 Recovery = 101.17%							
Se 196.026†	1420.8	511.9 ug/L		2.19	511.9 ug/L	2.19	0.43%
QC value within limits for Se 196.026 Recovery = 102.37%							
Sn 189.927†	4793.8	515.0 ug/L		1.99	515.0 ug/L	1.99	0.39%
QC value within limits for Sn 189.927 Recovery = 103.01%							
Sr 421.552†	67358.8	486.6 ug/L		1.07	486.6 ug/L	1.07	0.22%
QC value within limits for Sr 421.552 Recovery = 97.32%							
Ti 337.279†	3504.2	501.2 ug/L		2.24	501.2 ug/L	2.24	0.45%
QC value within limits for Ti 337.279 Recovery = 100.24%							
Tl 190.801†	2095.4	522.1 ug/L		1.31	522.1 ug/L	1.31	0.25%
QC value within limits for Tl 190.801 Recovery = 104.43%							
V 292.402†	69692.8	508.8 ug/L		2.18	508.8 ug/L	2.18	0.43%
QC value within limits for V 292.402 Recovery = 101.75%							
Zn 206.200†	24771.7	506.6 ug/L		2.50	506.6 ug/L	2.50	0.49%
QC value within limits for Zn 206.200 Recovery = 101.32%							

All analyte(s) passed QC.

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Sequence No.: 13                               Autosampler Location: 1
Sample ID: CCB 191030 I:PB O:PW              Date Collected: 10/30/19 1:25:17 PM
Analyst:                                       Data Type: Reprocessed on 10/30/19 2:40:54 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCB 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1276414.3	100.9 %	1.16			1.15%
Y 371.029 Radial	1219831.1	100.9 %	1.26			1.25%
Ag 338.289†	47.4	0.629 ug/L	0.4657	0.629 ug/L	0.4657	74.05%
QC value within limits for Ag 338.289 Recovery = Not calculated						
Al 308.215†	3.9	14.81 ug/L	7.394	14.81 ug/L	7.394	49.94%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979†	5.1	1.571 ug/L	2.7926	1.571 ug/L	2.7926	177.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B†	39.6	0.941 ug/L	0.5691	0.941 ug/L	0.5691	60.51%
QC value within limits for B Recovery = Not calculated						
Ba 233.527†	-16.4	-0.154 ug/L	0.1157	-0.154 ug/L	0.1157	75.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.6	0.069 ug/L	0.0624	0.069 ug/L	0.0624	90.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-61.5	-45.22 ug/L	10.408	-45.22 ug/L	10.408	23.02%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 214.440†	0.5	0.004 ug/L	0.0674	0.004 ug/L	0.0674	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Co 228.616†	-1.4	-0.026 ug/L	0.0682	-0.026 ug/L	0.0682	260.30%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.4	0.138 ug/L	0.2311	0.138 ug/L	0.2311	167.26%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-62.1	-0.749 ug/L	1.3685	-0.749 ug/L	1.3685	182.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 273.955†	-13.0	-0.855 ug/L	0.3367	-0.855 ug/L	0.3367	39.37%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490†	-67.9	-34.93 ug/L	17.459	-34.93 ug/L	17.459	49.98%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-12.7	-5.955 ug/L	1.9116	-5.955 ug/L	1.9116	32.10%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-1.5	-0.261 ug/L	0.8192	-0.261 ug/L	0.8192	314.47%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.4	0.280 ug/L	0.2658	0.280 ug/L	0.2658	94.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-369.0	-119.8 ug/L	10.65	-119.8 ug/L	10.65	8.89%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-13.6	-0.365 ug/L	0.5076	-0.365 ug/L	0.5076	138.89%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 213.617†	-2.1	-0.622 ug/L	0.7912	-0.622 ug/L	0.7912	127.28%
QC value within limits for P 213.617 Recovery = Not calculated						
Pb 220.353†	3.2	0.327 ug/L	1.7247	0.327 ug/L	1.7247	526.72%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.3	0.077 ug/L	0.8803	0.077 ug/L	0.8803	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.0	-1.061 ug/L	0.4031	-1.061 ug/L	0.4031	38.00%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-3.3	-0.357 ug/L	0.3269	-0.357 ug/L	0.3269	91.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-13.7	-0.099 ug/L	0.2628	-0.099 ug/L	0.2628	266.06%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 337.279†	-8.4	-1.197 ug/L	0.4550	-1.197 ug/L	0.4550	38.01%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	17.0	4.131 ug/L	1.4469	4.131 ug/L	1.4469	35.02%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	36.0	0.264 ug/L	0.6282	0.264 ug/L	0.6282	238.04%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	-20.9	-0.442 ug/L	0.1492	-0.442 ug/L	0.1492	33.79%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCV2 191030 I:PB O:PW

Analyst:

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 10/30/19 1:58:35 PM

Data Type: Reprocessed on 10/30/19 2:40:55 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV2 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1236531.8	97.73 %		1.096			1.12%
Y 371.029 Radial	1180474.7	97.64 %		1.185			1.21%
Ag 338.289†	13237.5	181.8 ug/L		0.52	181.8 ug/L	0.52	0.29%
QC value within limits for Ag	338.289	Recovery = 96.95%					
Al 308.215†	1904.0	7263 ug/L		86.2	7263 ug/L	86.2	1.19%
QC value within limits for Al	308.215	Recovery = 96.84%					
As 188.979†	1206.0	376.2 ug/L		3.27	376.2 ug/L	3.27	0.87%
QC value within limits for As	188.979	Recovery = 100.33%					
B†	16374.9	389.4 ug/L		1.91	389.4 ug/L	1.91	0.49%
QC value within limits for B		Recovery = 103.83%					
Ba 233.527†	39949.5	372.2 ug/L		0.78	372.2 ug/L	0.78	0.21%
QC value within limits for Ba	233.527	Recovery = 99.26%					
Be 313.107†	24434.2	388.3 ug/L		4.30	388.3 ug/L	4.30	1.11%
QC value within limits for Be	313.107	Recovery = 103.54%					
Ca 315.887†	24975.8	18370 ug/L		165.7	18370 ug/L	165.7	0.90%
QC value within limits for Ca	315.887	Recovery = 97.99%					
Cd 214.440†	55180.4	395.6 ug/L		1.41	395.6 ug/L	1.41	0.36%
QC value within limits for Cd	214.440	Recovery = 105.48%					
Co 228.616†	17105.3	366.4 ug/L		1.58	366.4 ug/L	1.58	0.43%
QC value within limits for Co	228.616	Recovery = 97.70%					
Cr 267.716†	28236.8	372.3 ug/L		1.37	372.3 ug/L	1.37	0.37%
QC value within limits for Cr	267.716	Recovery = 99.27%					
Cu 327.393†	31123.2	373.2 ug/L		2.46	373.2 ug/L	2.46	0.66%
QC value within limits for Cu	327.393	Recovery = 99.51%					
Fe 273.955†	114886.3	7311 ug/L		16.8	7311 ug/L	16.8	0.23%
QC value within limits for Fe	273.955	Recovery = 97.48%					
K 766.490†	14741.9	7569 ug/L		156.5	7569 ug/L	156.5	2.07%
QC value within limits for K	766.490	Recovery = 100.92%					
Mg 285.213†	41392.6	19450 ug/L		166.8	19450 ug/L	166.8	0.86%
QC value within limits for Mg	285.213	Recovery = 103.72%					
Mn 257.610†	2127.5	370.5 ug/L		3.96	370.5 ug/L	3.96	1.07%
QC value within limits for Mn	257.610	Recovery = 98.79%					
Mo 202.031†	9899.4	372.3 ug/L		4.58	372.3 ug/L	4.58	1.23%
QC value within limits for Mo	202.031	Recovery = 99.29%					
Na 589.592†	28179.8	9156 ug/L		61.9	9156 ug/L	61.9	0.68%
QC value within limits for Na	589.592	Recovery = 97.66%					
Ni 231.604†	14099.4	370.8 ug/L		1.75	370.8 ug/L	1.75	0.47%
QC value within limits for Ni	231.604	Recovery = 98.89%					
P 213.617†	5896.3	1772 ug/L		26.1	1772 ug/L	26.1	1.47%
QC value within limits for P	213.617	Recovery = 94.49%					
Pb 220.353†	3770.4	376.5 ug/L		4.10	376.5 ug/L	4.10	1.09%
QC value within limits for Pb	220.353	Recovery = 100.39%					
Sb 206.836†	1484.3	371.6 ug/L		4.80	371.6 ug/L	4.80	1.29%
QC value within limits for Sb	206.836	Recovery = 99.08%					
Se 196.026†	1085.7	391.0 ug/L		7.01	391.0 ug/L	7.01	1.79%
QC value within limits for Se	196.026	Recovery = 104.26%					
Sn 189.927†	3596.2	386.3 ug/L		4.63	386.3 ug/L	4.63	1.20%
QC value within limits for Sn	189.927	Recovery = 103.02%					
Sr 421.552†	49440.3	357.2 ug/L		2.68	357.2 ug/L	2.68	0.75%
QC value within limits for Sr	421.552	Recovery = 95.24%					
Ti 337.279†	2613.7	373.8 ug/L		4.51	373.8 ug/L	4.51	1.21%
QC value within limits for Ti	337.279	Recovery = 99.69%					
Tl 190.801†	1608.4	400.5 ug/L		2.77	400.5 ug/L	2.77	0.69%
QC value within limits for Tl	190.801	Recovery = 106.79%					
V 292.402†	51636.8	377.1 ug/L		0.58	377.1 ug/L	0.58	0.15%
QC value within limits for V	292.402	Recovery = 100.57%					
Zn 206.200†	18928.0	387.1 ug/L		2.35	387.1 ug/L	2.35	0.61%
QC value within limits for Zn	206.200	Recovery = 103.22%					

All analyte(s) passed QC.

Sequence No.: 15
 Sample ID: CCB 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 10/30/19 2:03:22 PM
 Data Type: Reprocessed on 10/30/19 2:40:56 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1285514.0	101.6 %		0.37			0.36%
Y 371.029 Radial	1229772.8	101.7 %		0.37			0.37%
Ag 338.289†	-27.1	-0.383 ug/L		0.8969	-0.383 ug/L	0.8969	234.36%
QC value within limits for Ag 338.289 Recovery = Not calculated							
Al 308.215†	4.9	18.63 ug/L		5.602	18.63 ug/L	5.602	30.07%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979†	6.5	2.029 ug/L		1.6653	2.029 ug/L	1.6653	82.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B†	34.8	0.828 ug/L		0.2325	0.828 ug/L	0.2325	28.09%
QC value within limits for B Recovery = Not calculated							
Ba 233.527†	-24.1	-0.227 ug/L		0.0712	-0.227 ug/L	0.0712	31.44%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	6.7	0.104 ug/L		0.1560	0.104 ug/L	0.1560	149.55%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	-38.0	-27.93 ug/L		6.384	-27.93 ug/L	6.384	22.85%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Cd 214.440†	49.6	0.356 ug/L		0.1046	0.356 ug/L	0.1046	29.40%
QC value within limits for Cd 214.440 Recovery = Not calculated							
Co 228.616†	12.4	0.266 ug/L		0.2142	0.266 ug/L	0.2142	80.62%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	7.4	0.095 ug/L		0.2846	0.095 ug/L	0.2846	298.12%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	115.8	1.380 ug/L		1.3030	1.380 ug/L	1.3030	94.44%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 273.955†	-32.8	-2.040 ug/L		0.1811	-2.040 ug/L	0.1811	8.88%
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490†	-262.0	-134.7 ug/L		65.63	-134.7 ug/L	65.63	48.72%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	-22.7	-10.65 ug/L		3.104	-10.65 ug/L	3.104	29.15%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	0.7	0.130 ug/L		0.2425	0.130 ug/L	0.2425	186.70%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-19.2	-0.719 ug/L		0.3302	-0.719 ug/L	0.3302	45.89%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-266.8	-86.54 ug/L		29.745	-86.54 ug/L	29.745	34.37%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-21.3	-0.575 ug/L		0.4961	-0.575 ug/L	0.4961	86.31%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 213.617†	-34.4	-10.33 ug/L		1.895	-10.33 ug/L	1.895	18.34%
QC value within limits for P 213.617 Recovery = Not calculated							
Pb 220.353†	-28.5	-2.842 ug/L		1.0170	-2.842 ug/L	1.0170	35.78%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-7.3	-1.815 ug/L		1.0718	-1.815 ug/L	1.0718	59.04%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	18.6	6.638 ug/L		0.5781	6.638 ug/L	0.5781	8.71%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-6.7	-0.721 ug/L		0.3515	-0.721 ug/L	0.3515	48.78%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	30.8	0.223 ug/L		0.3012	0.223 ug/L	0.3012	135.27%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 337.279†	-4.8	-0.692 ug/L		0.9466	-0.692 ug/L	0.9466	136.82%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	28.9	7.021 ug/L		1.2655	7.021 ug/L	1.2655	18.02%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-93.7	-0.681 ug/L		0.5627	-0.681 ug/L	0.5627	82.58%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	-22.9	-0.492 ug/L		0.2325	-0.492 ug/L	0.2325	47.30%
QC value within limits for Zn 206.200 Recovery = Not calculated							
QC Failed. Continue with analysis.							

**METALS
Raw Data**

APPL, INC.

Sequence No.: 16

Sample ID: BA01662W24 DF5

Analyst: P

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution: 5X

Autosampler Location: 53

Date Collected: 10/30/19 1:44:12 PM

Data Type: Reprocessed on 10/30/19 2:40:57 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BA01662W24 DF5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1279111.4	101.1	%	1.18			1.17%
Y 371.029 Radial	1223699.0	101.2	%	1.27			1.26%
Ag 338.289†	-4.6	-0.087	ug/L	0.8875	-0.437 ug/L	4.4376	>999.9%
Al 308.215†	-7.6	-29.61	ug/L	22.660	-148.0 ug/L	113.30	76.54%
As 188.979†	3.2	0.989	ug/L	2.0205	4.946 ug/L	10.1025	204.26%
B†	274.0	6.514	ug/L	0.2243	32.57 ug/L	1.122	3.44%
Ba 233.527†	92.5	0.860	ug/L	0.0632	4.300 ug/L	0.3160	7.35%
Be 313.107†	2.6	0.044	ug/L	0.1334	0.220 ug/L	0.6668	302.85%
Ca 315.887†	2852.0	2098	ug/L	111.1	10490 ug/L	555.7	5.30%
Cd 214.440†	-0.1	-0.007	ug/L	0.1478	-0.033 ug/L	0.7390	>999.9%
Co 228.616†	-2.2	-0.069	ug/L	0.2228	-0.346 ug/L	1.1138	321.82%
Cr 267.716†	79.7	1.031	ug/L	0.2512	5.155 ug/L	1.2561	24.37%
Cu 327.393†	77.7	0.839	ug/L	0.1457	4.194 ug/L	0.7286	17.37%
Fe 273.955†	260.8	15.94	ug/L	0.509	79.71 ug/L	2.547	3.20%
K 766.490†	613.3	315.1	ug/L	61.45	1575 ug/L	307.3	19.50%
Mg 285.213†	4485.4	2105	ug/L	104.9	10530 ug/L	524.7	4.98%
Mn 257.610†	4.6	0.704	ug/L	0.7567	3.520 ug/L	3.7836	107.47%
Mo 202.031†	-4.8	-0.276	ug/L	0.0933	-1.381 ug/L	0.4664	33.76%
Na 589.592†	19271.6	6255	ug/L	178.6	31280 ug/L	893.1	2.86%
Ni 231.604†	6.8	0.159	ug/L	0.1202	0.794 ug/L	0.6009	75.68%
P 213.617†	18.5	5.574	ug/L	1.5321	27.87 ug/L	7.660	27.49%
Pb 220.353†	-28.6	-2.899	ug/L	0.3281	-14.49 ug/L	1.641	11.32%
Sb 206.836†	-5.8	-1.456	ug/L	0.8850	-7.279 ug/L	4.4249	60.79%
Se 196.026†	13.9	4.884	ug/L	2.3444	24.42 ug/L	11.722	48.00%
Sn 189.927†	-5.1	-0.463	ug/L	0.2951	-2.317 ug/L	1.4753	63.67%
Sr 421.552†	2039.4	14.72	ug/L	0.849	73.59 ug/L	4.245	5.77%
Ti 337.279†	3.0	0.398	ug/L	0.4342	1.989 ug/L	2.1708	109.17%
Tl 190.801†	20.0	4.969	ug/L	0.5479	24.85 ug/L	2.739	11.03%
V 292.402†	389.7	2.810	ug/L	0.4843	14.05 ug/L	2.422	17.23%
Zn 206.200†	79.5	1.654	ug/L	0.0762	8.270 ug/L	0.3812	4.61%

Sequence No.: 17

Sample ID: BA01664W24 DF5

Analyst: P

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution: 5X

Autosampler Location: 54

Date Collected: 10/30/19 1:49:02 PM

Data Type: Reprocessed on 10/30/19 2:40:58 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BA01664W24 DF5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	1273901.0	100.7	%	0.61				0.61%
Y 371.029 Radial	1218001.6	100.7	%	0.65				0.65%
Ag 338.289†	-6.1	-0.118	ug/L	0.9125	-0.592	ug/L	4.5623	770.28%
Al 308.215†	-5.0	-19.64	ug/L	34.450	-98.21	ug/L	172.250	175.39%
As 188.979†	1.5	0.458	ug/L	0.8369	2.288	ug/L	4.1847	182.91%
B†	264.8	6.296	ug/L	0.3666	31.48	ug/L	1.833	5.82%
Ba 233.527†	75.5	0.701	ug/L	0.0445	3.507	ug/L	0.2223	6.34%
Be 313.107†	1.9	0.030	ug/L	0.0479	0.149	ug/L	0.2394	161.12%
Ca 315.887†	2719.2	2000	ug/L	61.5	10000	ug/L	307.6	3.07%
Cd 214.440†	3.3	0.018	ug/L	0.0577	0.091	ug/L	0.2887	318.57%
Co 228.616†	15.0	0.305	ug/L	0.1208	1.523	ug/L	0.6041	39.66%
Cr 267.716†	42.0	0.534	ug/L	0.0542	2.671	ug/L	0.2709	10.14%
Cu 327.393†	84.7	0.912	ug/L	0.1943	4.560	ug/L	0.9714	21.30%
Fe 273.955†	186.9	11.18	ug/L	0.927	55.92	ug/L	4.637	8.29%
K 766.490†	625.2	321.3	ug/L	36.49	1607	ug/L	182.4	11.36%
Mg 285.213†	4398.7	2064	ug/L	63.6	10320	ug/L	318.0	3.08%
Mn 257.610†	-1.5	-0.358	ug/L	1.5342	-1.790	ug/L	7.6710	428.52%
Mo 202.031†	-2.6	-0.203	ug/L	0.2285	-1.016	ug/L	1.1425	112.44%
Na 589.592†	21545.6	6993	ug/L	198.6	34970	ug/L	993.2	2.84%
Ni 231.604†	-3.7	-0.117	ug/L	0.8469	-0.583	ug/L	4.2345	726.32%
P 213.617†	21.6	6.490	ug/L	2.2505	32.45	ug/L	11.252	34.68%
Pb 220.353†	-33.8	-3.412	ug/L	1.0452	-17.06	ug/L	5.226	30.64%
Sb 206.836†	-6.4	-1.592	ug/L	1.0311	-7.961	ug/L	5.1555	64.76%
Se 196.026†	19.7	6.922	ug/L	2.0771	34.61	ug/L	10.386	30.01%
Sn 189.927†	-6.3	-0.603	ug/L	0.7986	-3.014	ug/L	3.9930	132.49%
Sr 421.552†	2039.7	14.72	ug/L	0.943	73.60	ug/L	4.713	6.40%
Ti 337.279†	-6.9	-1.008	ug/L	1.0741	-5.040	ug/L	5.3707	106.56%
Tl 190.801†	19.0	4.697	ug/L	0.5745	23.48	ug/L	2.872	12.23%
V 292.402†	423.8	3.055	ug/L	0.1442	15.28	ug/L	0.721	4.72%
Zn 206.200†	20.1	0.429	ug/L	0.2181	2.146	ug/L	1.0907	50.82%

Sequence No.: 19
 Sample ID: 191028B BLK
 Analyst: P
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 10/30/19 1:30:09 PM
 Data Type: Reprocessed on 10/30/19 2:41:00 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 191028B BLK

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1294304.3	102.3 %	1.03			1.00%
Y 371.029 Radial	1237399.8	102.3 %	1.10			1.08%
Ag 338.289†	3.2	0.042 ug/L	0.6973	0.042 ug/L	0.6973	>999.9%
Al 308.215†	-4.9	-18.83 ug/L	10.444	-18.83 ug/L	10.444	55.47%
As 188.979†	-4.9	-1.511 ug/L	1.3874	-1.511 ug/L	1.3874	91.85%
B†	-45.1	-1.073 ug/L	0.2488	-1.073 ug/L	0.2488	23.18%
Ba 233.527†	-7.9	-0.073 ug/L	0.1089	-0.073 ug/L	0.1089	149.01%
Be 313.107†	1.3	0.021 ug/L	0.1069	0.021 ug/L	0.1069	511.83%
Ca 315.887†	-30.5	-22.45 ug/L	1.830	-22.45 ug/L	1.830	8.16%
Cd 214.440†	0.4	0.003 ug/L	0.0227	0.003 ug/L	0.0227	801.12%
Co 228.616†	-0.1	-0.004 ug/L	0.1219	-0.004 ug/L	0.1219	>999.9%
Cr 267.716†	34.9	0.458 ug/L	0.1798	0.458 ug/L	0.1798	39.31%
Cu 327.393†	162.2	1.951 ug/L	0.7415	1.951 ug/L	0.7415	38.00%
Fe 273.955†	48.5	3.119 ug/L	1.1395	3.119 ug/L	1.1395	36.54%
K 766.490†	-113.1	-58.18 ug/L	47.924	-58.18 ug/L	47.924	82.38%
Mg 285.213†	6.5	3.089 ug/L	1.4946	3.089 ug/L	1.4946	48.39%
Mn 257.610†	1.8	0.320 ug/L	0.9221	0.320 ug/L	0.9221	288.02%
Mo 202.031†	9.6	0.363 ug/L	0.4871	0.363 ug/L	0.4871	134.15%
Na 589.592†	-330.7	-107.3 ug/L	40.89	-107.3 ug/L	40.89	38.11%
Ni 231.604†	-17.4	-0.468 ug/L	0.1962	-0.468 ug/L	0.1962	41.93%
P 213.617†	6.6	1.973 ug/L	1.5665	1.973 ug/L	1.5665	79.40%
Pb 220.353†	3.3	0.323 ug/L	0.7491	0.323 ug/L	0.7491	231.86%
Sb 206.836†	1.8	0.451 ug/L	0.5833	0.451 ug/L	0.5833	129.30%
Se 196.026†	8.7	3.102 ug/L	2.5109	3.102 ug/L	2.5109	80.94%
Sn 189.927†	108.2	11.53 ug/L	0.301	11.53 ug/L	0.301	2.61%
Sr 421.552†	-35.8	-0.259 ug/L	0.3408	-0.259 ug/L	0.3408	131.72%
Ti 337.279†	1.6	0.231 ug/L	1.0053	0.231 ug/L	1.0053	435.15%
Tl 190.801†	8.2	1.994 ug/L	0.2284	1.994 ug/L	0.2284	11.46%
V 292.402†	-32.5	-0.226 ug/L	0.7339	-0.226 ug/L	0.7339	324.84%
Zn 206.200†	291.2	5.962 ug/L	0.1263	5.962 ug/L	0.1263	2.12%

Sequence No.: 20
 Sample ID: 191028B LCS
 Analyst: P
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 51
 Date Collected: 10/30/19 1:34:51 PM
 Data Type: Reprocessed on 10/30/19 2:41:01 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 191028B LCS

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1255338.0	99.22 %	0.671			0.68%
Y 371.029 Radial	1199200.3	99.18 %	0.712			0.72%
Ag 338.289†	7208.5	99.00 ug/L	1.011	99.00 ug/L	1.011	1.02%
Al 308.215†	503.7	1920 ug/L	45.0	1920 ug/L	45.0	2.35%
As 188.979†	808.8	251.2 ug/L	0.30	251.2 ug/L	0.30	0.12%
B†	10241.7	243.5 ug/L	2.31	243.5 ug/L	2.31	0.95%
Ba 233.527†	27122.8	253.0 ug/L	1.20	253.0 ug/L	1.20	0.47%
Be 313.107†	3122.1	50.22 ug/L	0.288	50.22 ug/L	0.288	0.57%
Ca 315.887†	33509.9	24650 ug/L	106.8	24650 ug/L	106.8	0.43%
Cd 214.440†	7031.7	50.54 ug/L	0.317	50.54 ug/L	0.317	0.63%
Co 228.616†	12060.4	258.5 ug/L	1.40	258.5 ug/L	1.40	0.54%
Cr 267.716†	19244.2	253.5 ug/L	1.12	253.5 ug/L	1.12	0.44%
Cu 327.393†	21283.6	253.9 ug/L	1.51	253.9 ug/L	1.51	0.60%
Fe 273.955†	15875.9	988.9 ug/L	2.97	988.9 ug/L	2.97	0.30%
K 766.490†	9458.2	4855 ug/L	53.4	4855 ug/L	53.4	1.10%
Mg 285.213†	53461.6	25100 ug/L	89.8	25100 ug/L	89.8	0.36%
Mn 257.610†	1420.7	246.6 ug/L	2.02	246.6 ug/L	2.02	0.82%
Mo 202.031†	6741.3	253.1 ug/L	1.15	253.1 ug/L	1.15	0.46%
Na 589.592†	74936.9	24330 ug/L	71.9	24330 ug/L	71.9	0.30%
Ni 231.604†	9647.2	253.6 ug/L	1.91	253.6 ug/L	1.91	0.75%
P 213.617†	6702.8	2014 ug/L	8.9	2014 ug/L	8.9	0.44%
Pb 220.353†	2560.3	254.8 ug/L	3.34	254.8 ug/L	3.34	1.31%
Sb 206.836†	929.6	232.7 ug/L	2.98	232.7 ug/L	2.98	1.28%
Se 196.026†	685.3	244.9 ug/L	2.01	244.9 ug/L	2.01	0.82%
Sn 189.927†	2378.4	256.0 ug/L	2.02	256.0 ug/L	2.02	0.79%
Sr 421.552†	33068.7	238.8 ug/L	1.03	238.8 ug/L	1.03	0.43%
Ti 337.279†	1753.6	250.7 ug/L	0.86	250.7 ug/L	0.86	0.34%
Tl 190.801†	1027.1	255.9 ug/L	2.72	255.9 ug/L	2.72	1.06%
V 292.402†	35106.8	257.3 ug/L	0.83	257.3 ug/L	0.83	0.32%
Zn 206.200†	24973.5	508.2 ug/L	2.82	508.2 ug/L	2.82	0.56%

Sequence No.: 21

Autosampler Location: 52

Sample ID: 191028B LCSD

Date Collected: 10/30/19 1:39:35 PM

Analyst: P

Data Type: Reprocessed on 10/30/19 2:41:03 PM

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: 191028B LCSD

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	1246260.9	98.50	%	0.469				0.48%
Y 371.029 Radial	1190146.8	98.44	%	0.527				0.54%
Ag 338.289†	6940.9	95.42	ug/L	1.532	95.42	ug/L	1.532	1.61%
Al 308.215†	504.9	1924	ug/L	33.5	1924	ug/L	33.5	1.74%
As 188.979†	786.2	244.2	ug/L	2.33	244.2	ug/L	2.33	0.95%
B†	10293.9	244.8	ug/L	1.25	244.8	ug/L	1.25	0.51%
Ba 233.527†	26540.4	247.5	ug/L	0.77	247.5	ug/L	0.77	0.31%
Be 313.107†	3088.6	49.68	ug/L	0.608	49.68	ug/L	0.608	1.22%
Ca 315.887†	33104.1	24350	ug/L	149.1	24350	ug/L	149.1	0.61%
Cd 214.440†	7066.1	50.78	ug/L	0.302	50.78	ug/L	0.302	0.59%
Co 228.616†	11814.2	253.2	ug/L	1.36	253.2	ug/L	1.36	0.54%
Cr 267.716†	18820.5	247.9	ug/L	1.53	247.9	ug/L	1.53	0.62%
Cu 327.393†	21009.8	250.6	ug/L	1.11	250.6	ug/L	1.11	0.44%
Fe 273.955†	15458.5	962.8	ug/L	1.43	962.8	ug/L	1.43	0.15%
K 766.490†	9303.2	4776	ug/L	27.4	4776	ug/L	27.4	0.57%
Mg 285.213†	52959.9	24870	ug/L	280.7	24870	ug/L	280.7	1.13%
Mn 257.610†	1398.9	242.8	ug/L	1.20	242.8	ug/L	1.20	0.49%
Mo 202.031†	6674.7	250.6	ug/L	0.89	250.6	ug/L	0.89	0.35%
Na 589.592†	74096.3	24060	ug/L	307.7	24060	ug/L	307.7	1.28%
Ni 231.604†	9455.9	248.5	ug/L	1.47	248.5	ug/L	1.47	0.59%
P 213.617†	6493.2	1951	ug/L	16.1	1951	ug/L	16.1	0.83%
Pb 220.353†	2517.1	250.5	ug/L	0.34	250.5	ug/L	0.34	0.13%
Sb 206.836†	909.0	227.6	ug/L	1.30	227.6	ug/L	1.30	0.57%
Se 196.026†	681.1	243.4	ug/L	5.05	243.4	ug/L	5.05	2.07%
Sr 189.927†	2356.8	253.6	ug/L	0.90	253.6	ug/L	0.90	0.35%
Sr 421.552†	32606.1	235.4	ug/L	3.61	235.4	ug/L	3.61	1.53%
Ti 337.279†	1751.5	250.4	ug/L	1.09	250.4	ug/L	1.09	0.43%
Tl 190.801†	1032.3	257.1	ug/L	2.50	257.1	ug/L	2.50	0.97%
V 292.402†	34280.0	251.3	ug/L	0.90	251.3	ug/L	0.90	0.36%
Zn 206.200†	25134.0	511.4	ug/L	4.19	511.4	ug/L	4.19	0.82%

ICP-OES Calibration Standard Prep									
Prepared: 10/30/19									
Expires: 11/06/19									
1% HNO3 / 5% HCl Prep: 10/30/19									
Prepared By (Initials): PW									
Calibration Standard 3									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number/ APPL Prep Date	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/L)
Solution A	Texas Scientific	HP1810-250	200 - 5,000	m2meb662248-38391	10/11/20	500uL	100mL	1% HNO3 / 5% HCl	1000 - 25,000
Solution B	Texas Scientific	HP1810-250	4000 - 10,000	m2meb662249-38389	10/11/20	500uL			2000 - 50,000
Solution C	Texas Scientific	HP1810-250	100 - 200	m2meb662250-38394	10/11/20	500uL			500 - 1000
Calibration Standard 2									
ICP-OES Calib Standard 3	Texas Scientific	Standard 2/CCV1	0.5 - 50	Prepared 10/30/19	11/06/19	25mL	50mL	1% HNO3 / 5% HCl	250 - 25,000
Calibration Standard 1									
200.7 LDL	O2SI	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 200
ICP-OES ICV (SS)									
Prepared: 10/28/19									
Expires: 08/09/19									
1% HNO3 / 5% HCl Prep: 10/28/19									
Prepared By (Initials): PW									
ICP-OES ICV 1									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
QCS ICV Soln A	CPI	4400-070615RH01	50 - 500	10062445-8-40746	10/30/20	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 2.5
QCS ICV Soln B	CPI	4400-070615RH01	2,500	10062445-9-40747	10/30/20	250uL			12.5
ICP-OES ICV Ba									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
Custom 23 Element Mix #314	O2SI	161314-01-03	5 - 25,00	1064561-8-38870	08/09/19	1mL	50mL	1% HNO3 / 5% HCl	0.1 - 50
Custom 23 Element Mix #315	O2SI	161314-01-03	10 - 25	1064561-7-38869	08/09/19	1mL			0.2 - 0.5
ICP-OES CCV2									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	APPL Prep Date	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
ICP-OES Calib Standard 3	Texas Scientific	CCV2	0.5 - 50	Prepared 10/30/19	11/06/19	15mL	50mL	1% HNO3 / 5% HCl	0.15 - 15
ICP-OES Low Levels (LLICV)									
Prepared: 10/30/19									
Expires: 11/13/19									
1% HNO3 / 5% HCl Prep: 10/30/19									
Prepared By (Initials): PW									
LLICV									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/L)
200.7 LDL	O2SI	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 200
LLICVX2									
200.7 LDL	O2SI	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	500uL	50mL	1% HNO3 / 5% HCl	0.50 - 400
LLICVX6									
200.7 LDL	O2SI	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	1.5mL	50mL	1% HNO3 / 5% HCl	1.5 - 1,200
LLICVX10									
200.7 LDL	O2SI	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	2.5mL	50mL	1% HNO3 / 5% HCl	2.5 - 2,000
LLICV 10									
ICP-OES Calib Standard 3	Texas Scientific	HP1810-250	0.5 - 50	10080366-1-39117	11/06/19	500uL	50mL	1% HNO3 / 5% HCl	5 - 500
LLICV 50									
ICP-OES Calib Standard 3	Texas Scientific	HP1810-250	0.5 - 50	10080366-1-39117	11/06/19	2.5mL	50mL	1% HNO3 / 5% HCl	25 - 2,500

ICP-OES Interference Check Solution A									
Prepared: 10/24/19									
Expires: 11/07/19									
1% HNO3 / 5% HCl Prep: 10/24/19									
Prepared By (Initials): PW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Aluminum	Inorganic Ventures	35-APPLTSP-6010ICSA	10,000	N2-MEB670092-39414	07/25/22	500uL	50mL	1% HNO3 / 5% HCl	100
Calcium			10,000						100
Magnesium			10,000						100
Iron			10,000						100
ICP-OES Interference Check Solution AB									
Aluminum	Inorganic Ventures	35-APPLTSP-6010ICSA	10,000	N2-MEB670092-39414	07/25/22	500uL	50mL	1% HNO3 / 5% HCl	100
Calcium			10,000						100
Magnesium			10,000						100
Iron			10,000						100
Special Mix (Interference)	O2SI	160495-01-01	100	10081266-39276	12/13/19	250uL			0.5
ICP-OES Internal Standards									
Prepared: 10/28/18									
Expires: 11/28/18									
1% HNO3 / 5% HCl Prep: 10/28/18									
Prepared By (Initials): PW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (mg/L)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc (mg/L)
Yttrium	O2SI	060039-04-03	1,000	10083563-39466	01/27/20	4mL	2L	1% HNO3 / 5% HCl	2

Metals Digestion Worksheet

Method Name 3010A Digestion

Prep Method M3010

Set 191028B

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 10064561-11-41208 Pipette AP-21
Spiked ID 2	LCSW LOT# 10064561-12-41210
Spiked ID 3	
Spiked ID 4	I
Spiked By	NM Date: 10/28/19 9:52:00 AM
Witnessed By	PW Date: 10/28/19 9:52:00 AM

Starting Temp:	SLOT 14 THERM:MTI 92.2C
Ending Temp:	SLOT 14 95.2C
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	YES
End Date/Time	10/28/19 13:31

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1 191028B Bk				50mL	50mL	10/28/19 9:52	equip: Modblock2
2 191028B LCS		500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
3 191028B LCS D		500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
4 BA01212	BA01212W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
5 BA01213	BA01213W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
6 BA01214	BA01214W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
7 BA01215	BA01215W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
8 BA01216	BA01216W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
9 BA01217	BA01217W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
10 BA01220	BA01220W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
11 BA01221	BA01221W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
12 BA01222	BA01222W07			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
13 BA01223	BA01223W07			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
14 BA01224	BA01224W06			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
15 BA01225	BA01225W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
16 BA01225 DUP	BA01225W05			50mL	50mL	10/28/19 9:52	equip: Modblock2
17 BA01225 MS	BA01225W05	500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
18 BA01662	BA01662W24			50mL	50mL	10/28/19 9:52	equip: Modblock2 90532
19 BA01664	BA01664W24			50mL	50mL	10/28/19 9:52	equip: Modblock2 90532
20 BA01784	BA01784W20			50mL	50mL	10/28/19 9:52	equip: Modblock2 90551

Solvent and Lot#
HNO3 BDH 1119020 15581
1:1 HCL 10-22-19
50mL vessel 190916

Sample COC Transfer
Sample prep employee Initials nm
Analyst's initials PW
Date 10/30/19
Time 1441
Moved to METALS

Technician's Initials
Scanned By nm
Sample Preparation nm
Digestion nm
Bring up to volume
Modified 10/28/19 9:43:01 AM

Reviewed By: *PW* Date: *10/30/19*

6010C/3010A Injection Log

Directory: K:\ICAP PHOEBE\Backup Excell

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	30 Oct 2019	08:56	CalBlk 191030 I:PB O:PW		191030A200	1.
2	30 Oct 2019	09:01	STD 1 191030 I:PB O:PW		191030A200	1.
3	30 Oct 2019	09:06	STD 2 191030 I:PB O:PW		191030A200	1.
4	30 Oct 2019	09:11	STD 3 191030 I:PB O:PW		191030A200	1.
5	30 Oct 2019	09:14	ICV 191030 I:PB O:PW		191030A200	1.
6	30 Oct 2019	09:29	ICB 191030 I:PB O:PW		191030A200	1.
7	30 Oct 2019	09:34	LLICV 191030 I:PB O:PW		191030A200	1.
8	30 Oct 2019	09:39	LLICVX2 191030 I:PB O:PW		191030A200	1.
9	30 Oct 2019	09:44	LLICVX6 191030 I:PB O:PW		191030A200	1.
10	30 Oct 2019	09:55	ICSA 191030 I:PB O:PW		191030A200	1.
11	30 Oct 2019	10:00	ICSAB 191030 I:PB O:PW		191030A200	1.
38	30 Oct 2019	13:20	CCV1 191030 I:PB O:PW		191030A200	1.
39	30 Oct 2019	13:25	CCB 191030 I:PB O:PW		191030A200	1.
40	30 Oct 2019	13:30	191028B BLK		191030A200	1.
41	30 Oct 2019	13:34	191028B LCS		191030A200	1.
42	30 Oct 2019	13:39	191028B LCSD		191030A200	1.
43	30 Oct 2019	13:44	BA01662W24 DF5		191030A200	5.
44	30 Oct 2019	13:49	BA01664W24 DF5		191030A200	5.
46	30 Oct 2019	13:58	CCV2 191030 I:PB O:PW		191030A200	1.
47	30 Oct 2019	14:03	CCB 191030 I:PB O:PW		191030A200	1.

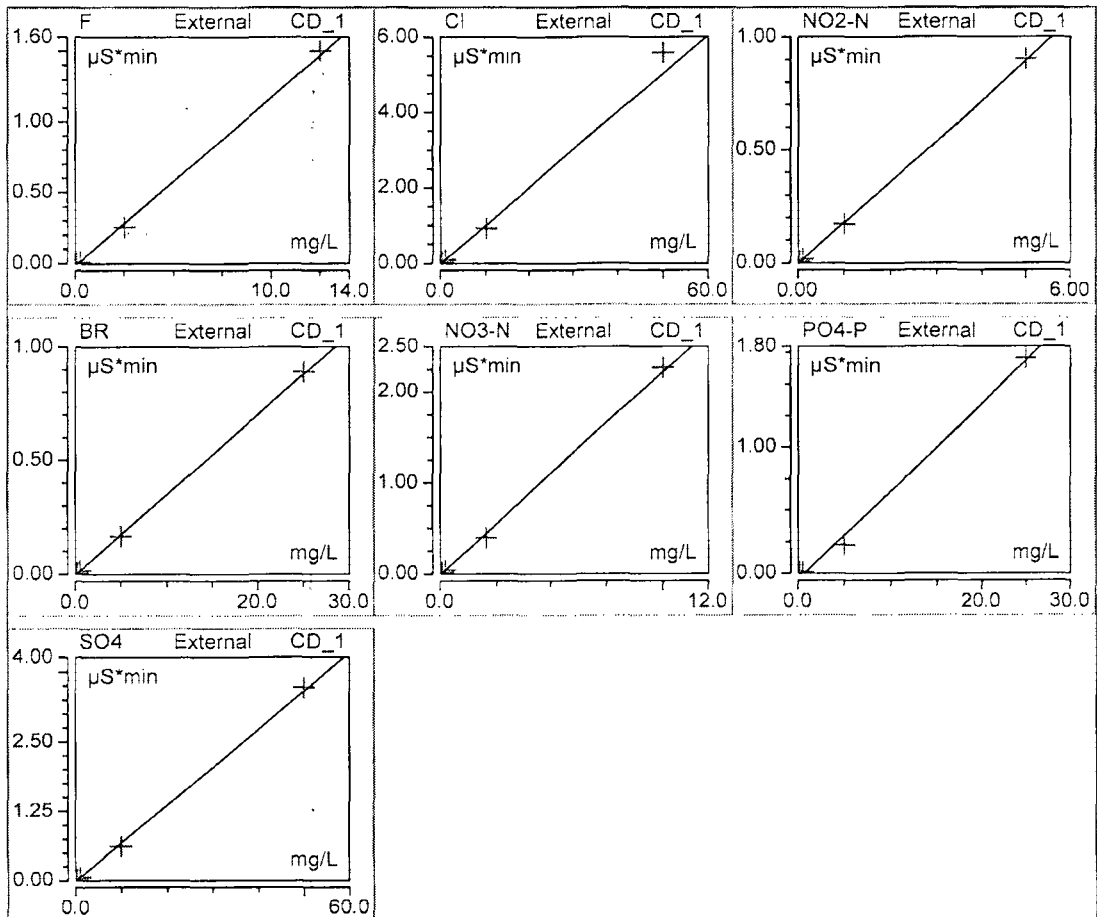
INORGANIC ANALYSIS
Calibration Data

Calibration Batch Report

Sequence:	191121	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	21-Nov-2019 / 17:37	Run Time:	5.1

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	4.000	-0.014	0.119	0.000	99.7003
Cl	Area	Lin, WithOffset, 1/A ²	4.000	-0.007	0.101	0.000	99.0220
NO2-N	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.179	0.000	99.9623
BR	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.035	0.000	99.9272
NO3-N	Area	Lin, WithOffset, 1/A	4.000	-0.005	0.223	0.000	99.7595
PO4-P	Area	Lin, WithOffset	4.000	-0.047	0.069	0.000	99.5917
SO4	Area	Lin, WithOffset, 1/A	4.000	-0.007	0.068	0.000	99.7957

Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
ICAL1 191121	n.a.	0.3936	0.0365	0.2037	0.0864	n.a.	0.4412
ICAL2 191121	0.141	0.8652	0.0893	0.4685	0.1909	0.7933	0.9693
ICAL5 191121	2.165	8.7043	0.8662	4.4904	1.7800	3.1621	8.9515
ICAL8 191121	12.748	54.0342	4.6258	24.3519	10.2295	22.4920	51.3018

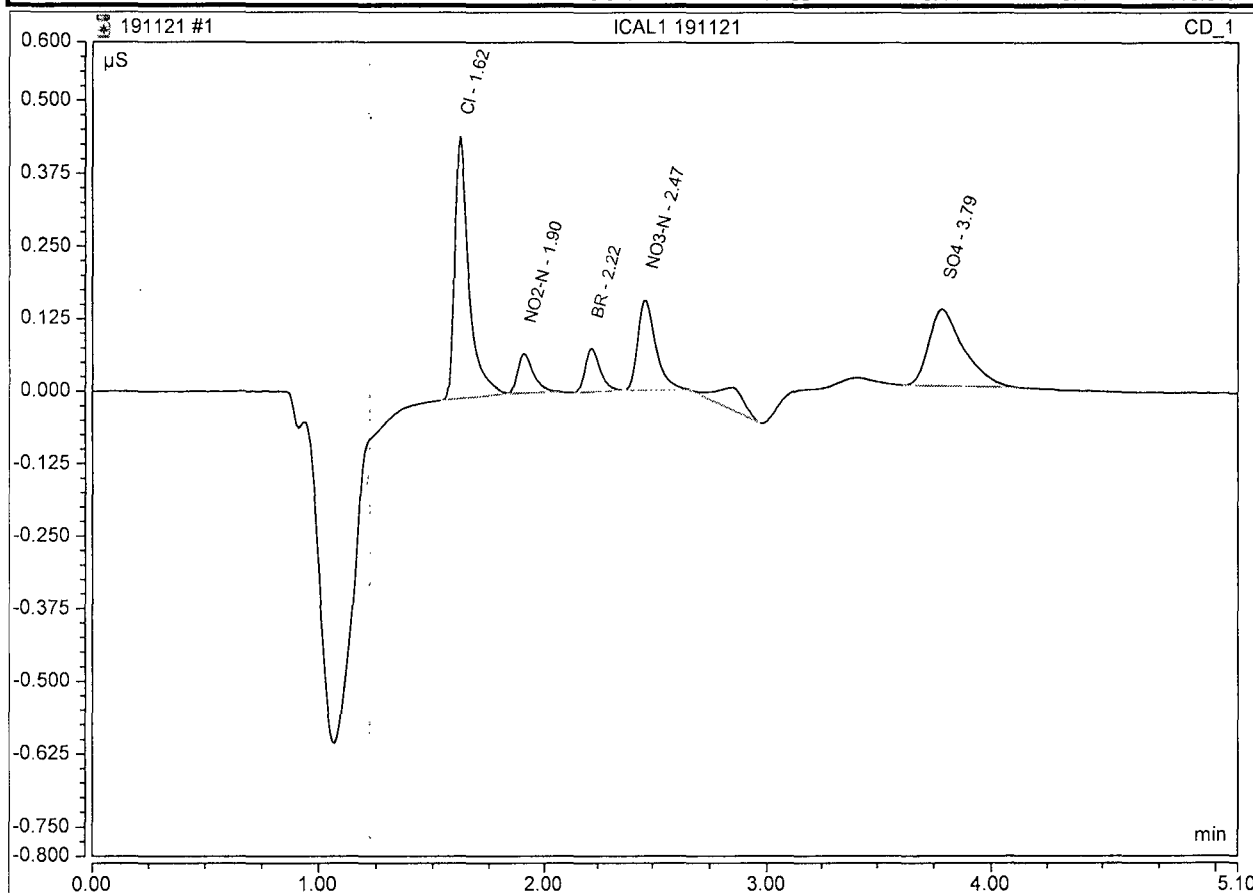


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191121

Peak Integration Report

Sample Name:	ICAL1 191121	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 191030	Operator:	chemist_wetlab
Inj. Date / Time:	21-Nov-2019 / 17:15	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.62	Cl	BMB	0.033	0.450	0.39	0.4	98.4%
2	1.90	NO2-N	BMB	0.006	0.068	0.04	0.04	91.2%
3	2.22	BR	BMB	0.006	0.076	0.20	0.2	101.9%
4	2.47	NO3-N	BMB	0.015	0.157	0.09	0.08	108.0%
6	3.79	SO4	BMB	0.023	0.133	0.44	0.4	110.3%

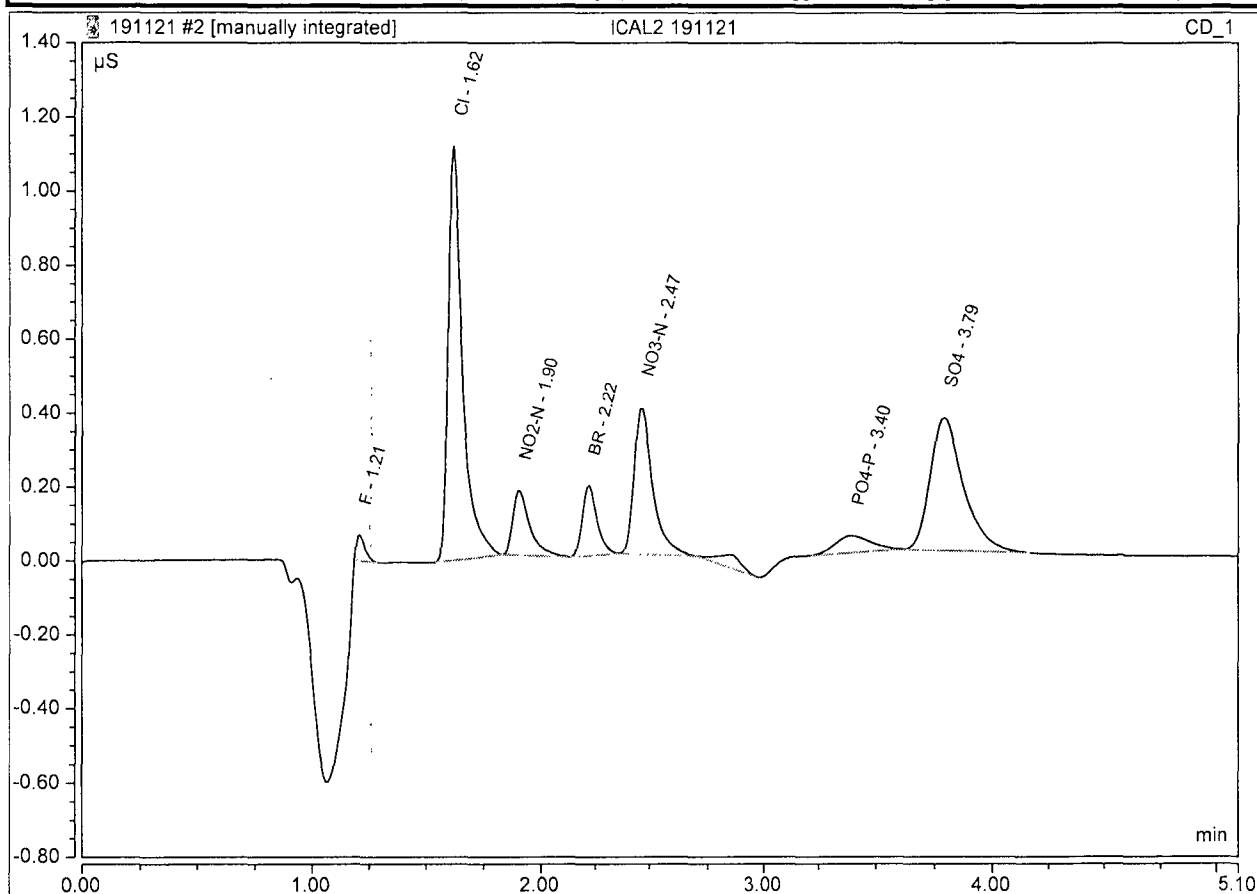


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191121

Peak Integration Report

Sample Name:		ICAL2 191121			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 191030			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Nov-2019 / 17:22			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.21	F	MB*	0.003	0.070	0.14	0.25	56.5%
2	1.62	Cl	BMB	0.080	1.120	0.87	1	86.5%
3	1.90	NO ₂ -N	BMB	0.015	0.176	0.09	0.1	89.3%
4	2.22	BR	BMB	0.016	0.191	0.47	0.5	93.7%
5	2.47	NO ₃ -N	BMB	0.038	0.399	0.19	0.2	95.4%
7	3.40	PO ₄ -P	BMB*	0.008	0.045	0.79	0.5	158.7%
8	3.79	SO ₄	BMB	0.060	0.360	0.97	1	96.9%

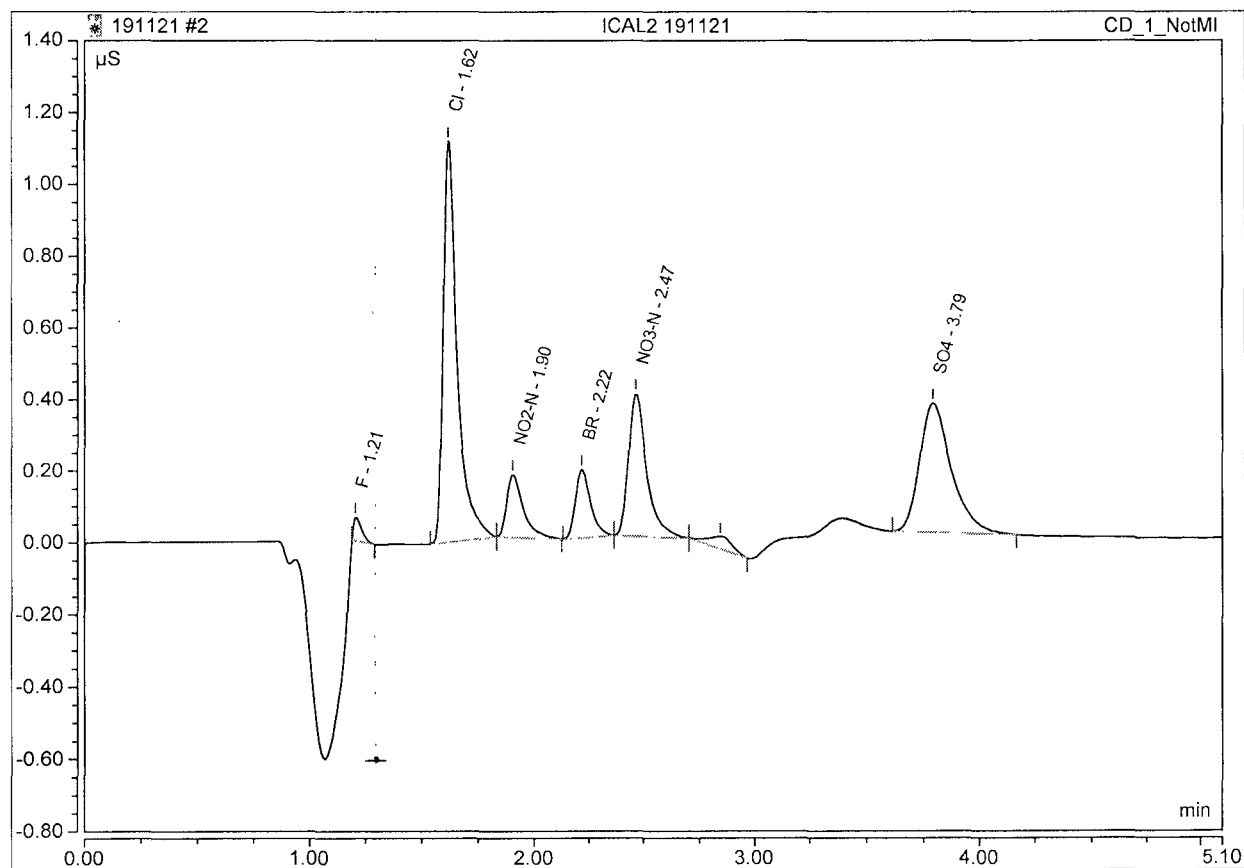


MI5 BW 191122

Not Manipulated Peak Integration Report

Sample Name:	ICAL2 191121	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 191030	Operator:	chemist_wetlab
Inj. Date / Time:	21-Nov-2019 / 17:22	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Ammount mg/L
1	1.21	F	MB*	0.003	0.066	-0.3023
2	1.62	Cl	BMB	0.080	1.120	0.8663
3	1.90	NO2-N	BMB	0.015	0.176	0.0893
4	2.22	BR	BMB	0.016	0.191	0.4685
5	2.47	NO3-N	BMB	0.038	0.399	0.1909
7	n.a.	PO4-P	BMB*	n.a.	n.a.	n.a.
8	3.79	SO4	BMB	0.060	0.360	0.9693

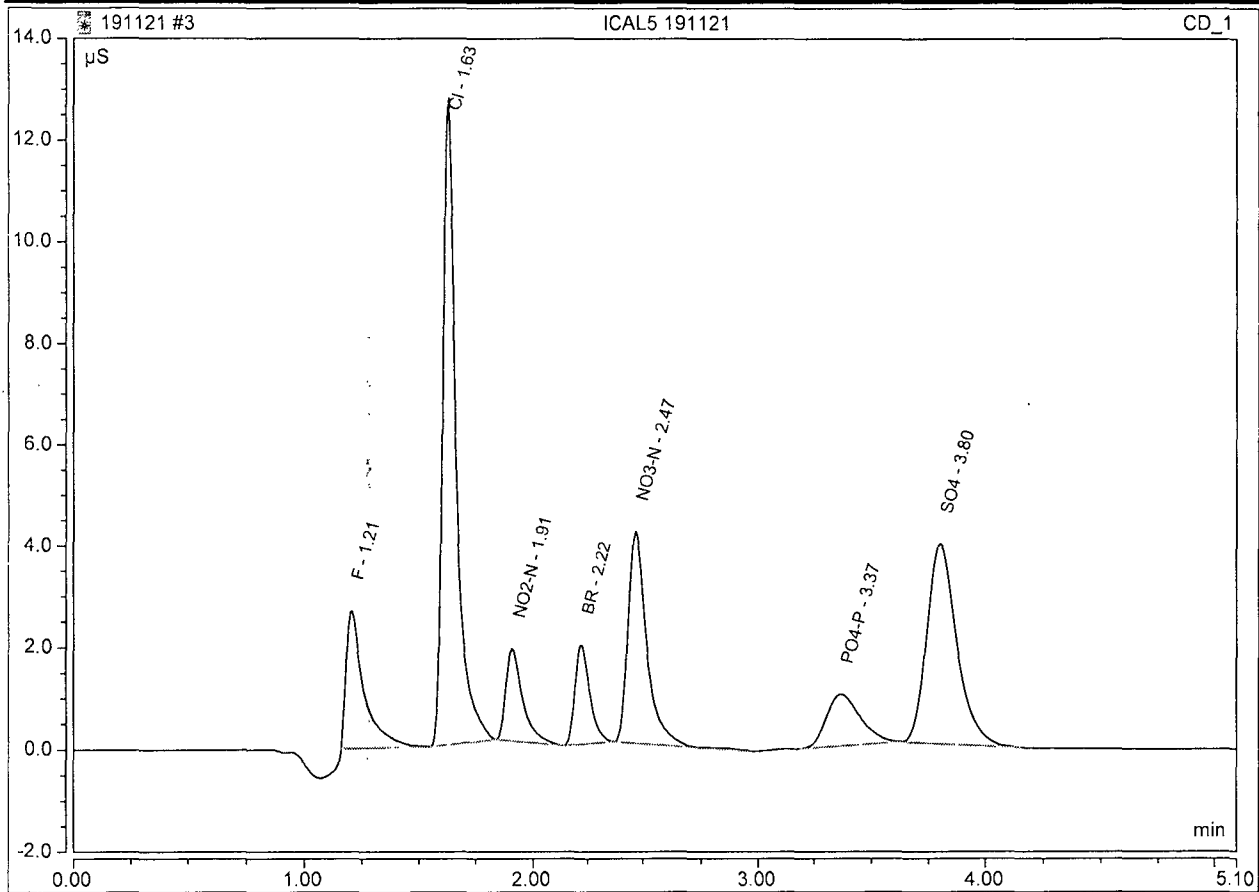


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191121

Peak Integration Report

Sample Name:		ICAL5 191121			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 191030			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Nov-2019 / 17:30			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.21	F	BMB	0.244	2.711	2.17	2.5	86.6%
2	1.63	Cl	BMB	0.871	12.735	8.70	10	87.0%
3	1.91	NO2-N	BMB	0.154	1.812	0.87	1	86.6%
4	2.22	BR	BMB	0.157	1.954	4.49	5	89.8%
5	2.47	NO3-N	BMB	0.392	4.170	1.78	2	89.0%
7	3.37	PO4-P	BMB	0.173	1.014	3.16	5	63.2%
8	3.80	SO4	BMB	0.604	3.941	8.95	10	89.5%

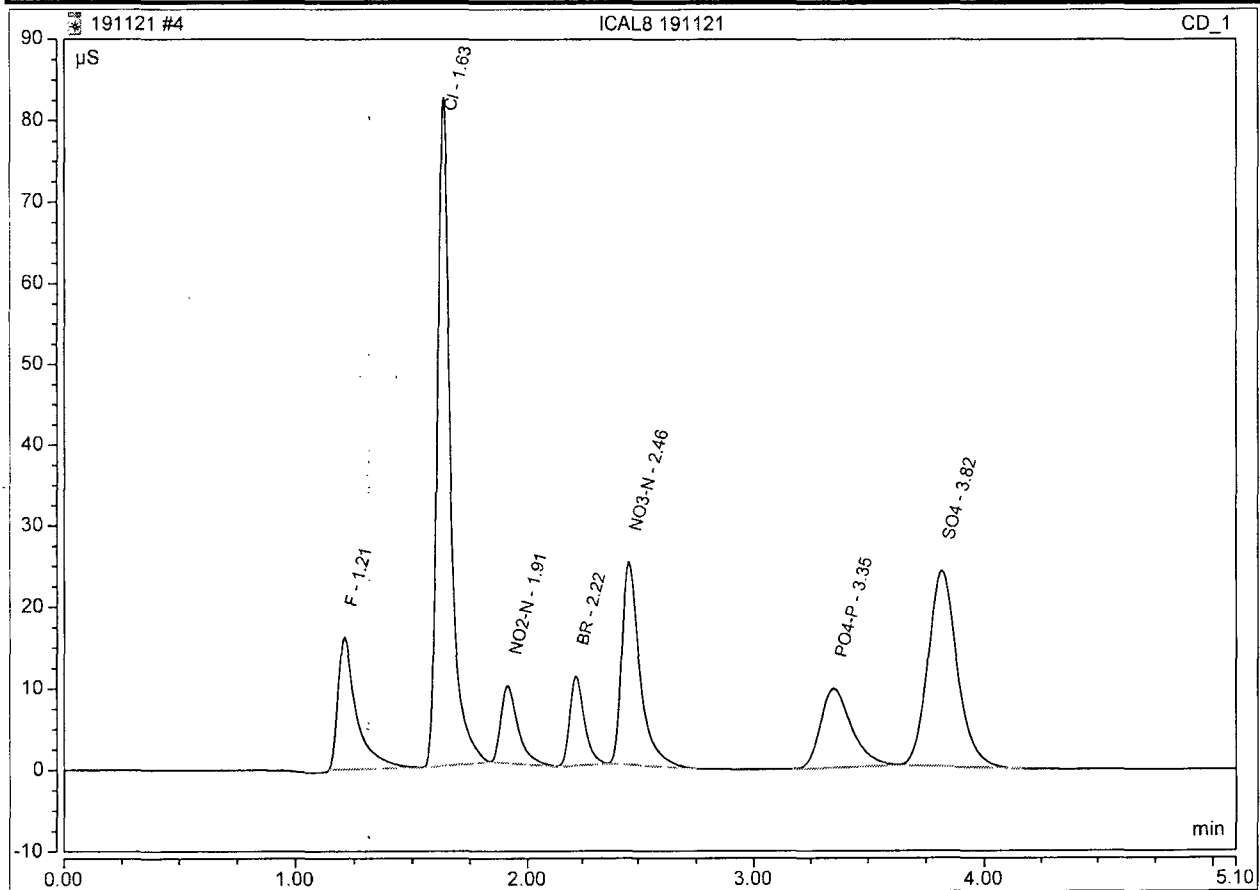


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191121

Peak Integration Report

Sample Name:		ICAL8 191121			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 191030			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Nov-2019 / 17:37			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.21	F	BMB	1.502	16.282	12.75	12.5	102.0%
2	1.63	Cl	BMB	5.446	82.368	54.03	50	108.1%
3	1.91	NO2-N	BMB	0.829	9.566	4.63	5	92.5%
4	2.22	BR	BMB	0.857	11.005	24.35	25	97.4%
5	2.46	NO3-N	BMB	2.275	24.958	10.23	10	102.3%
6	3.35	PO4-P	BMB	1.515	9.745	22.49	25	90.0%
7	3.82	SO4	BMB	3.493	24.021	51.30	50	102.6%

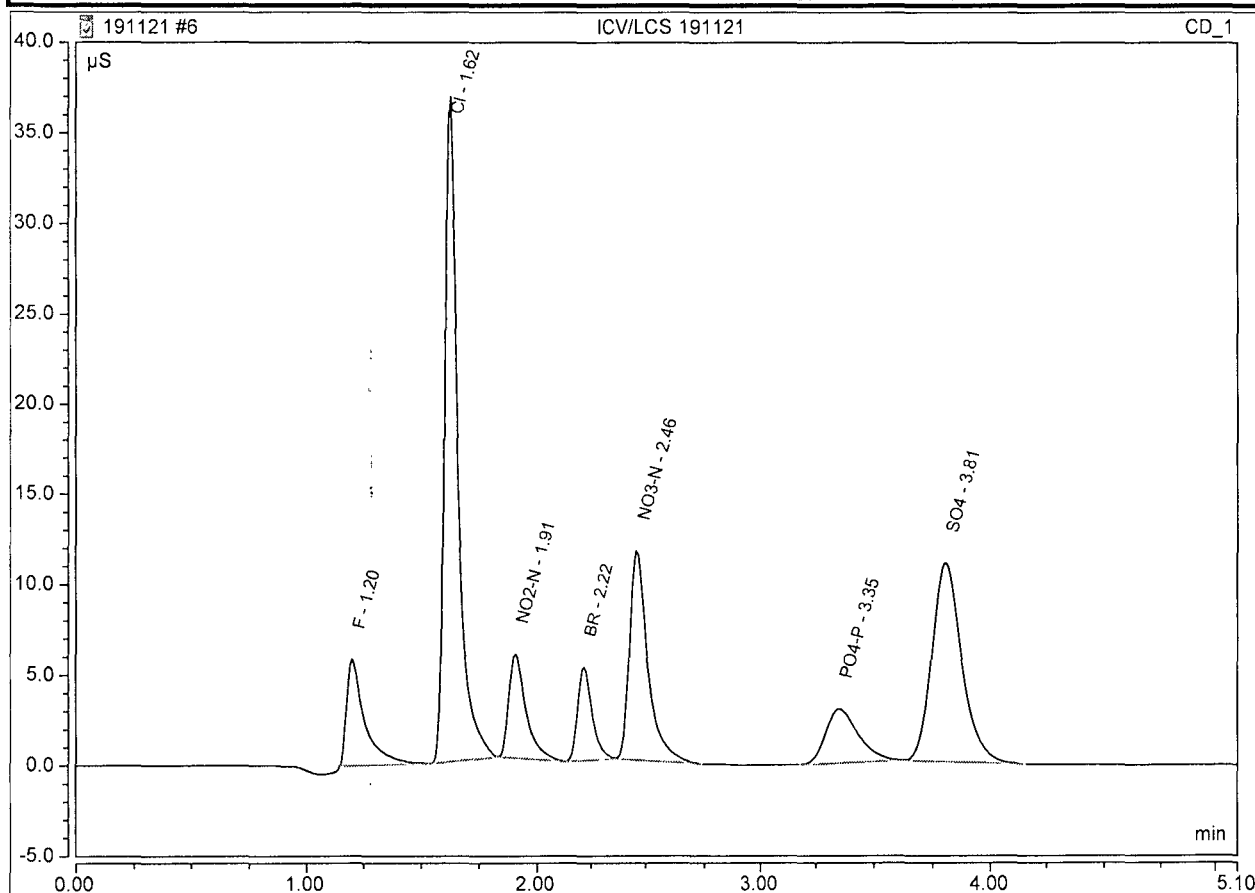


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191121

Peak Integration Report

Sample Name:		ICV/LCS 191121			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 191121			Operator:		chemist_wetlab	
Inj. Date / Time:		21-Nov-2019 / 17:52			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.20	F	BMB	0.534	5.852	4.67	5	93.5%
2	1.62	Cl	BMB	2.439	36.770	25.48	25	101.9%
3	1.91	NO2-N	BMB	0.500	5.762	3.05	3.04	100.4%
4	2.22	BR	BMB	0.411	5.173	12.15	12.5	97.2%
5	2.46	NO3-N	BMB	1.068	11.564	4.81	5	96.2%
6	3.35	PO4-P	BMB	0.487	2.989	8.93	10	89.3%
7	3.81	SO4	BMB	1.639	10.999	24.02	25	96.1%



Algorithm Check

y = Peak Area

x = mg/L S04

$$y = 0.0685 \quad x + \quad -0.0071$$

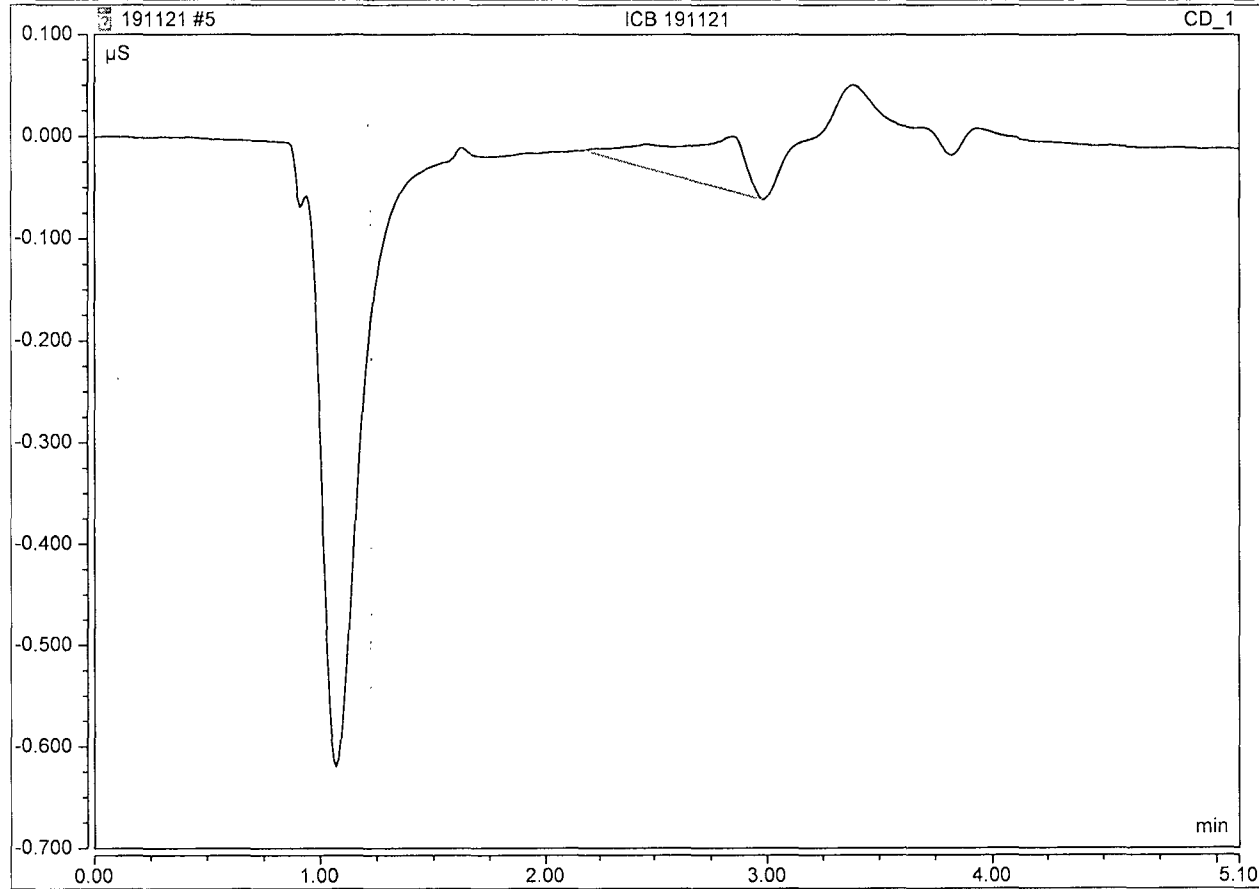
$$y = 1.6392 \quad \text{therefor } x =$$

Logged on User: BW
Instrument: Charlie System_1
Sequence: 191121

Peak Integration Report

Sample Name:	ICB 191121	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 191030	Operator:	chemist_wetlab
Inj. Date / Time:	21-Nov-2019 / 17:45	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	

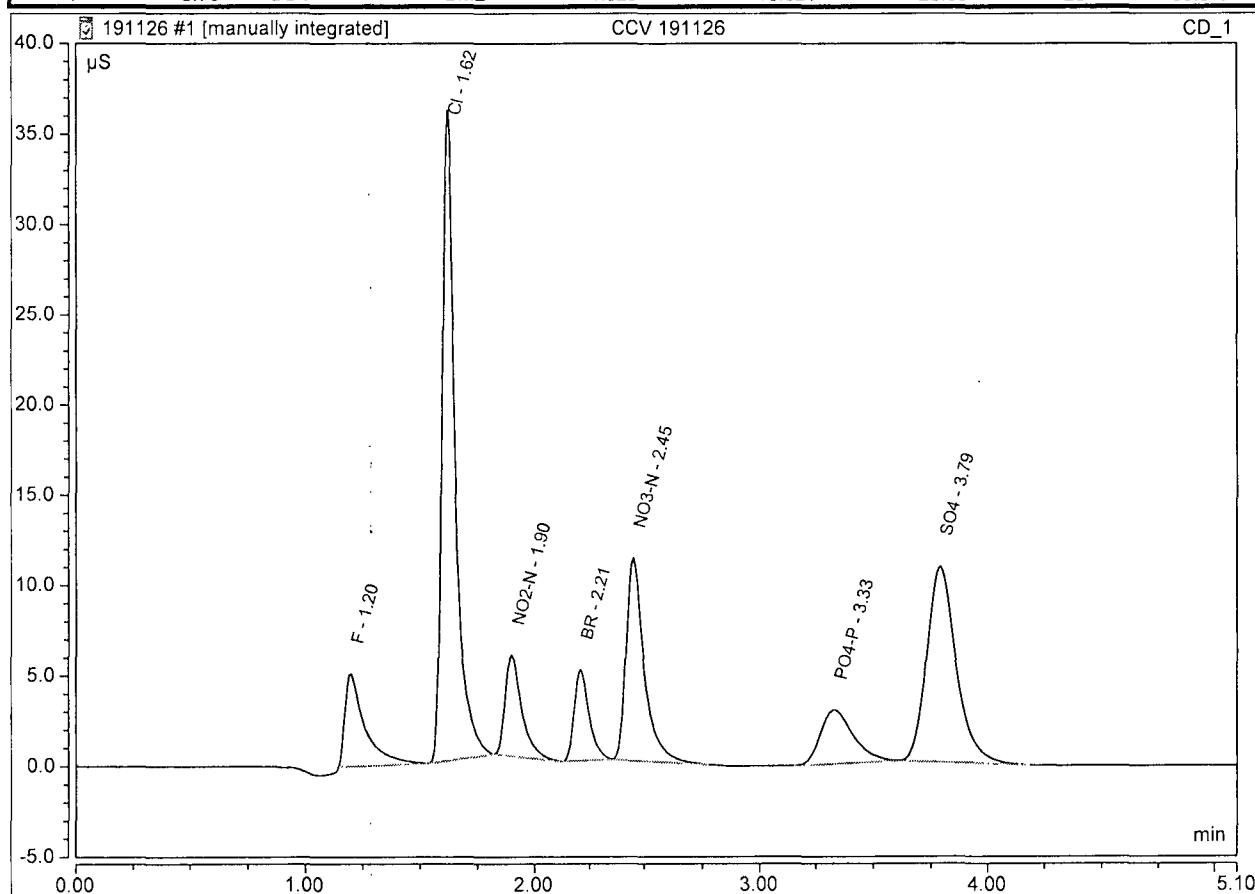


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:		CCV 191126			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 191121			Operator:		chemist_wetlab	
Inj. Date / Time:		26-Nov-2019 / 16:49			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.20	F	MB*	0.512	5.123	4.49	5	89.9%
2	1.62	Cl	BMB	2.364	36.018	24.70	25	98.8%
3	1.90	NO ₂ -N	BMB	0.475	5.577	2.90	3.04	95.4%
4	2.21	BR	BMB	0.400	5.028	11.84	12.5	94.7%
5	2.45	NO ₃ -N	BMB	1.041	11.187	4.69	5	93.8%
6	3.33	PO ₄ -P	BMB	0.490	2.968	8.98	10	89.8%
7	3.79	SO ₄	BMB	1.626	10.821	23.83	25	95.3%

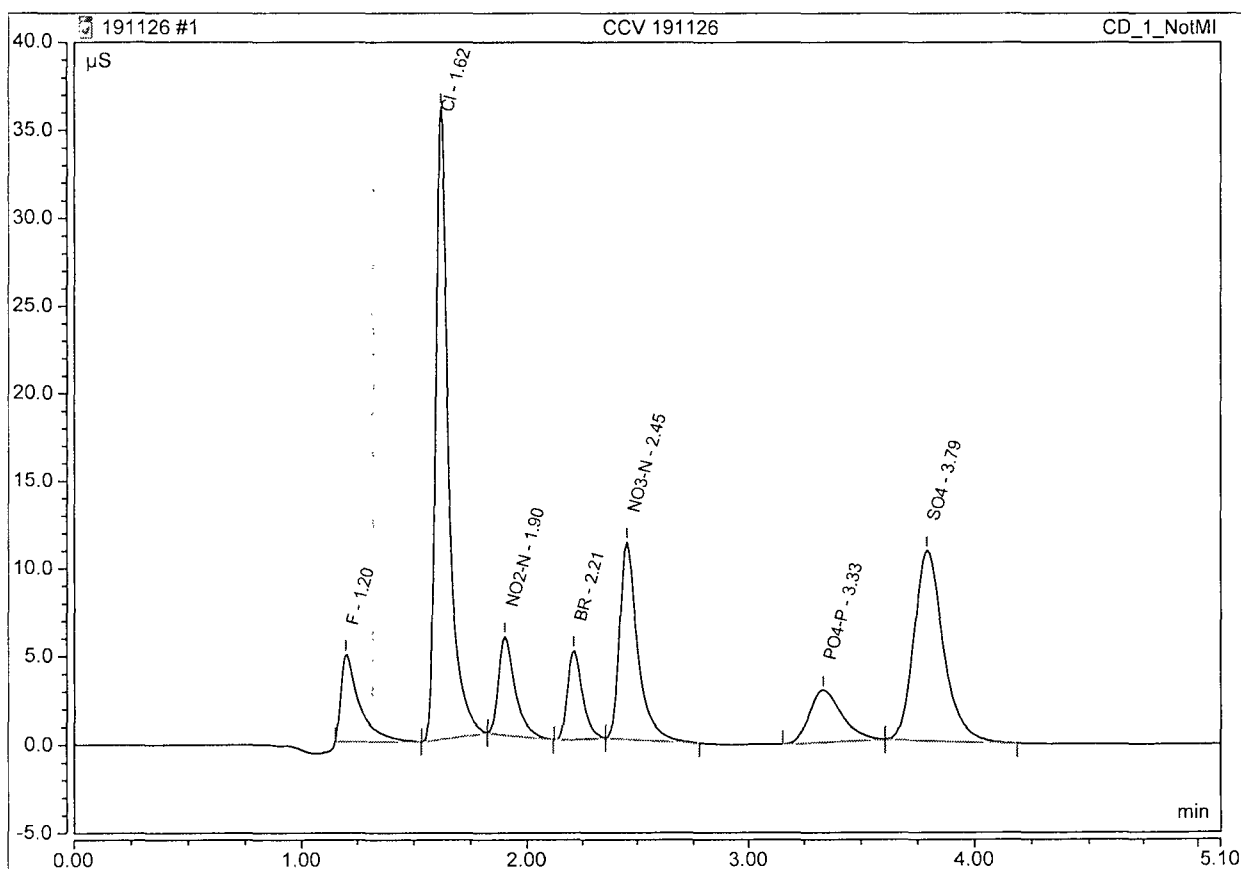


MI1 BW 191126

Not Manipulated Peak Integration Report

Sample Name:	CCV 191126	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 16:49	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.20	F	MB*	0.477	4.964	4.2030
2	1.62	Cl	BMB	2.364	36.018	24.7012
3	1.90	NO ₂ -N	BMB	0.475	5.577	2.8987
4	2.21	BR	BMB	0.400	5.028	11.8365
5	2.45	NO ₃ -N	BMB	1.041	11.187	4.6880
6	3.33	PO ₄ -P	BMB	0.490	2.968	9.7315
7	3.79	SO ₄	BMB	1.626	10.821	23.8299

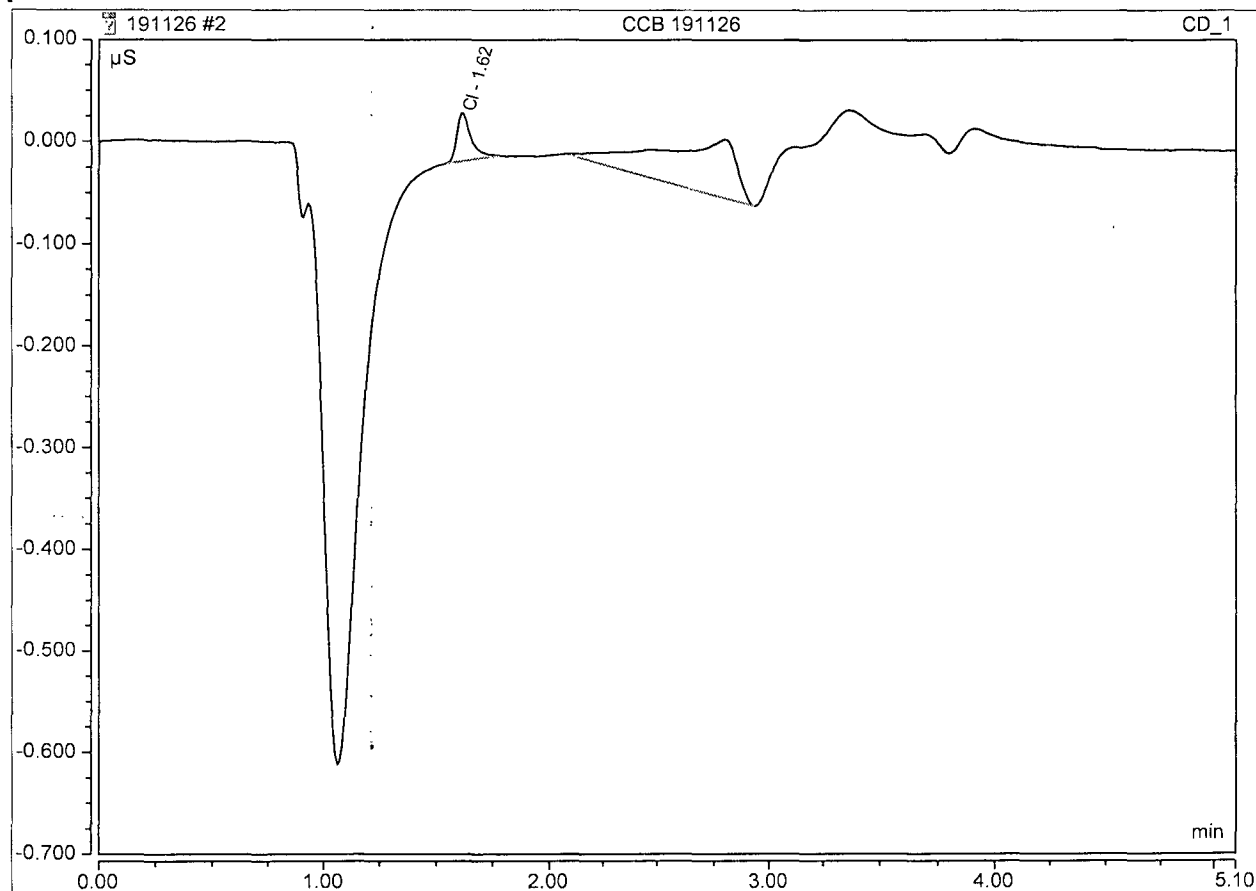


Logged on User: BW
Instrument: Charlie System_1
Sequence: 191126

Peak Integration Report

Sample Name:	CCB 191126	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 16:56	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.62	Cl	BMB	0.003	0.048	0.11		

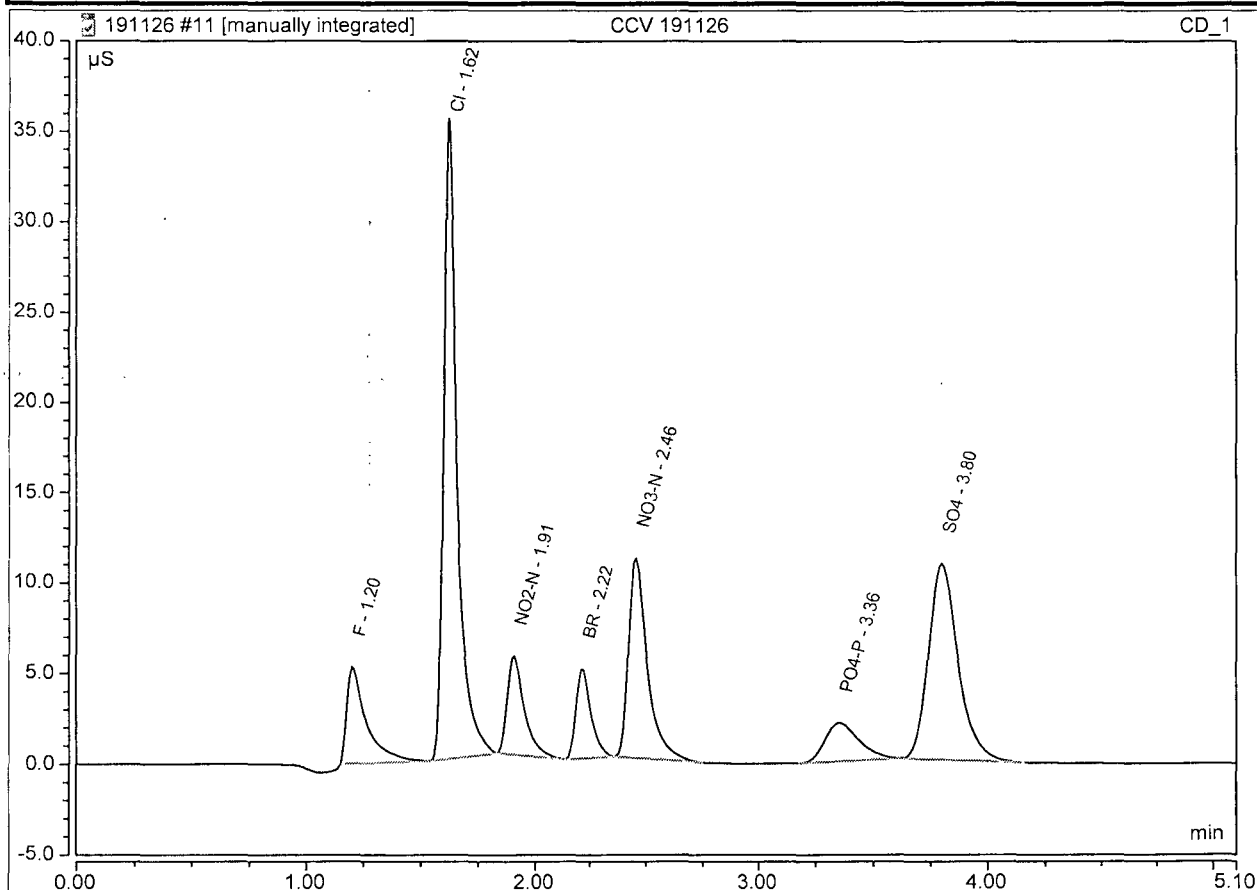


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:	CCV 191126	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 18:26	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.20	F	MB*	0.531	5.334	4.65	5	93.0%
2	1.62	Cl	BMB	2.384	35.416	24.91	25	99.6%
3	1.91	NO2-N	BMB	0.473	5.450	2.89	3.04	95.0%
4	2.22	BR	BMB	0.399	4.959	11.80	12.5	94.4%
5	2.46	NO3-N	BMB	1.040	11.049	4.68	5	93.7%
6	3.36	PO4-P	BMB	0.356	2.114	6.86	10	68.6%
7	3.80	SO4	BMB	1.630	10.826	23.89	25	95.6%

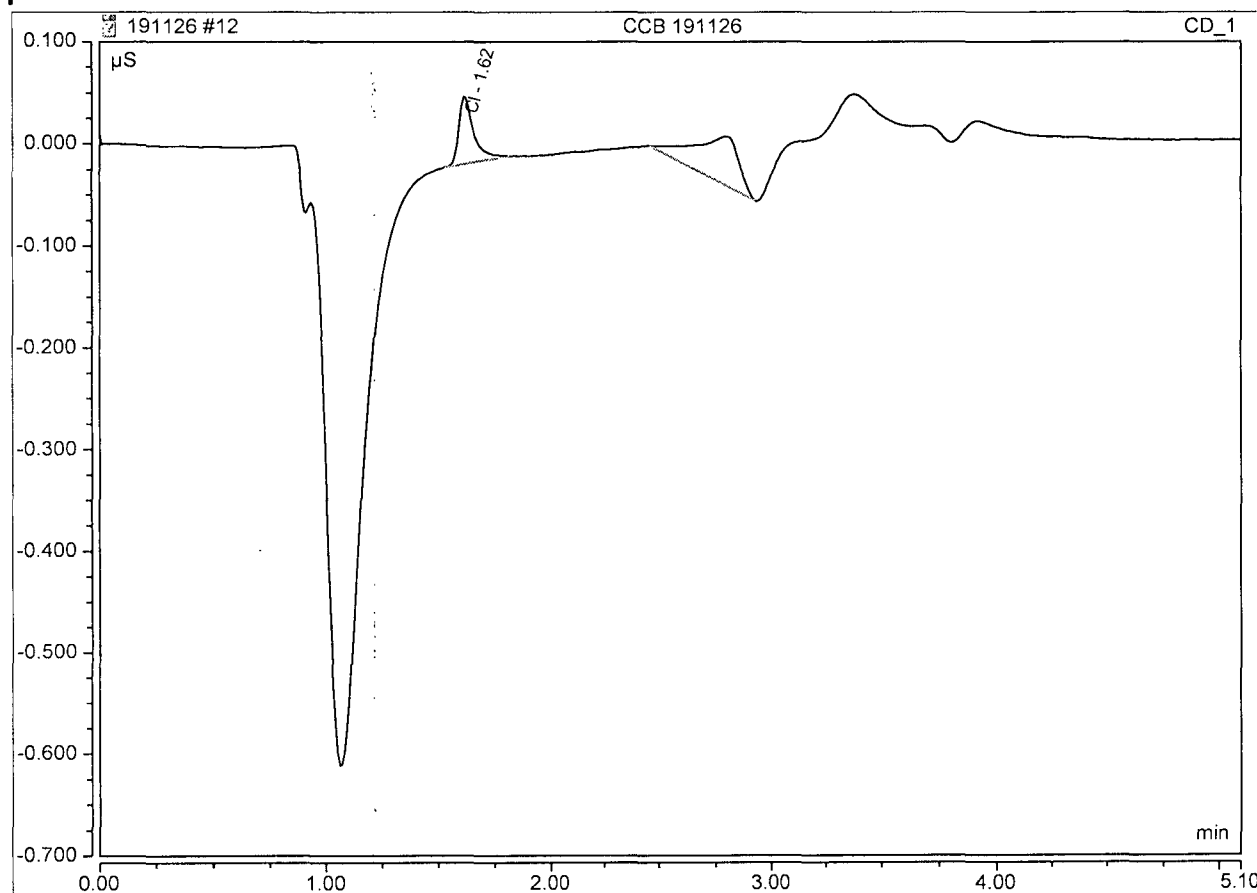


Logged on User: BW
Instrument: Charlie System_1
Sequence: 191126

Peak Integration Report

Sample Name:	CCB 191126	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 18:34	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.62	Cl	BMB	0.005	0.067	0.13		

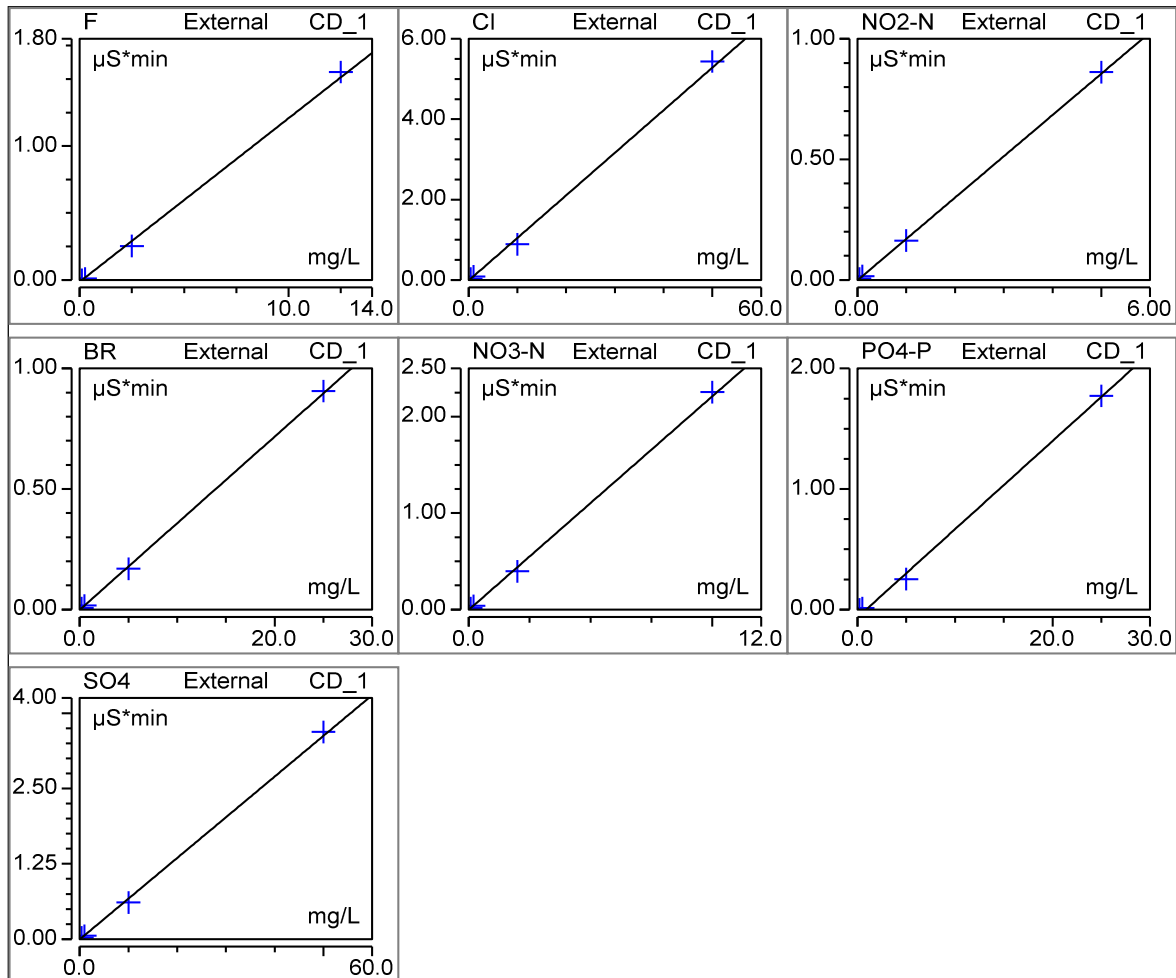


Calibration Batch Report

Sequence:	190925 300W_ICAL	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:16	Run Time:	5.1

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	4.000	-0.014	0.122	0.000	99.5887
Cl	Area	Lin, WithOffset, 1/A	4.000	-0.016	0.106	0.000	99.5281
NO2-N	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.171	0.000	99.9672
BR	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.036	0.000	99.9396
NO3-N	Area	Lin, WithOffset, 1/A	4.000	-0.004	0.222	0.000	99.7842
PO4-P	Area	Lin, WithOffset	3.000	-0.065	0.073	0.000	99.7793
SO4	Area	Lin, WithOffset, 1/A	4.000	-0.004	0.068	0.000	99.7924

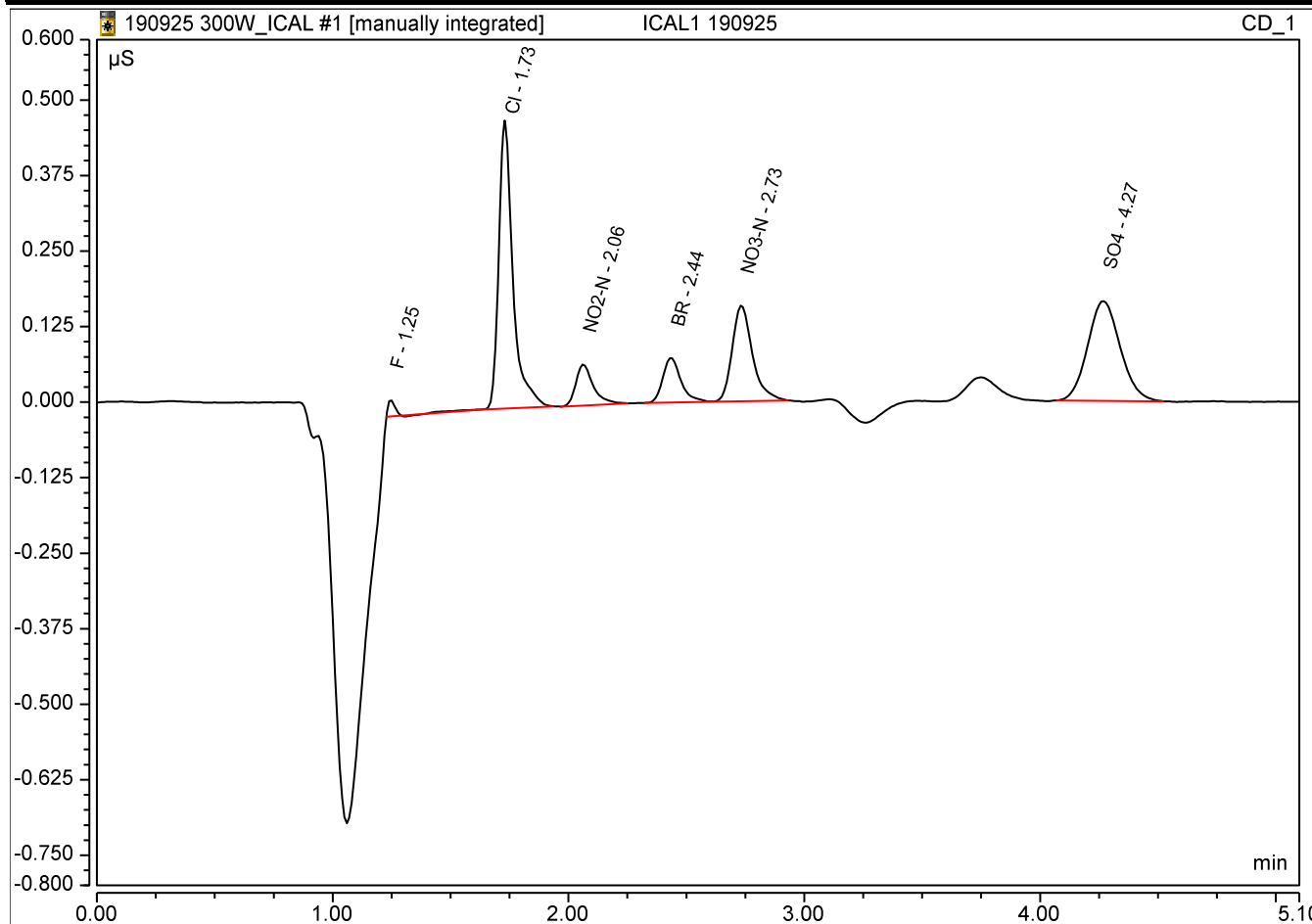
Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
ICAL1 190925	0.126	0.4596	0.0412	0.2113	0.0904	n.a.	0.4586
ICAL2 190925	0.210	0.9697	0.1002	0.4928	0.1895	1.0431	0.9277
ICAL5 190925	2.193	8.5222	0.9607	4.7374	1.8054	4.3347	9.0681
ICAL8 190925	12.821	51.4484	5.0379	25.2585	10.1947	25.1222	50.9456



Peak Integration Report

Sample Name:	ICAL1 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 16:54	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S} \cdot \text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S} \cdot \text{min}$	μS	mg/L	mg/L	
1	1.25	F	Mb*	0.001	0.027	0.13	0.1	125.5%
2	1.73	Cl	bMB*	0.033	0.477	0.46	0.4	114.9%
3	2.06	NO2-N	BMB	0.006	0.068	0.04	0.04	103.0%
4	2.44	BR	BMB	0.007	0.074	0.21	0.2	105.7%
5	2.73	NO3-N	BMB	0.016	0.159	0.09	0.08	113.1%
6	4.27	SO4	BMB	0.027	0.166	0.46	0.4	114.7%

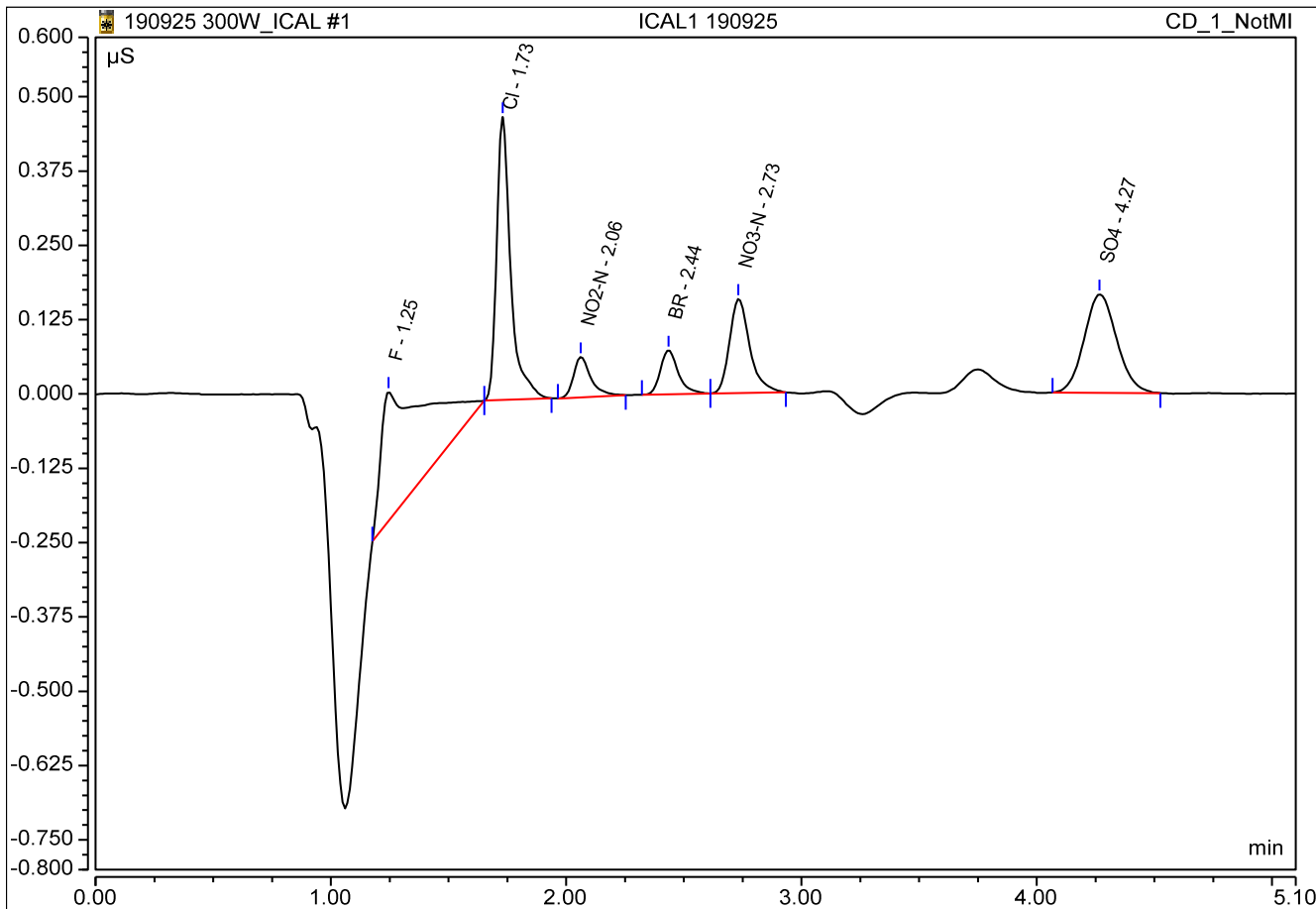


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL1 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 16:54	Run Time:	5.10

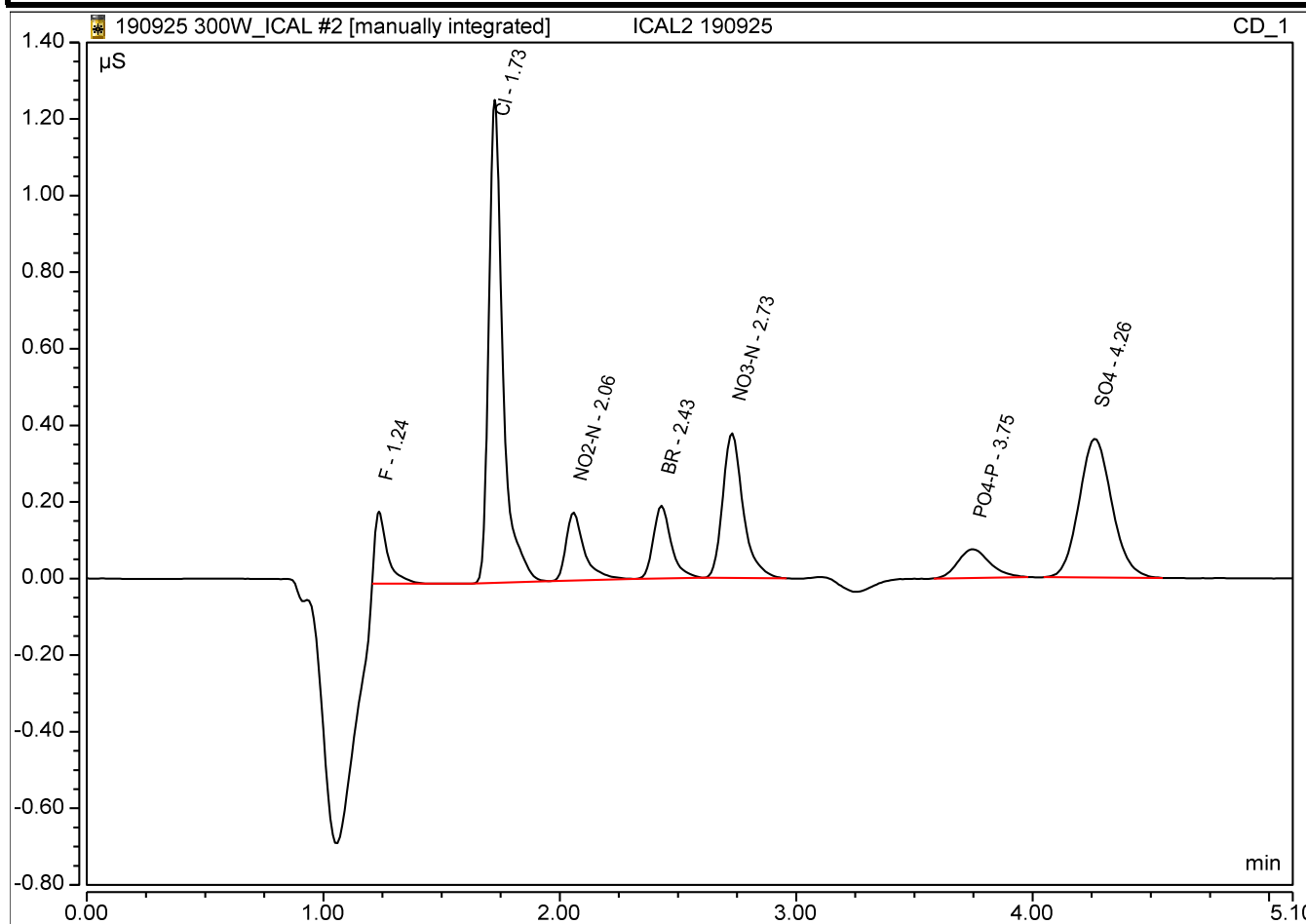
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.25	F	Mb*	0.048	0.218	0.1074
2	1.73	Cl	bMB*	0.033	0.476	0.4595
3	2.06	NO2-N	BMB	0.006	0.068	0.0412
4	2.44	BR	BMB	0.007	0.074	0.2113
5	2.73	NO3-N	BMB	0.016	0.159	0.0904
6	4.27	SO4	BMB	0.027	0.166	0.4586



Peak Integration Report

Sample Name:	ICAL2 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:01	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.24	F	Mb*	0.011	0.188	0.21	0.25	84.2%
2	1.73	Cl	bMB*	0.087	1.261	0.97	1	97.0%
3	2.06	NO ₂ -N	BMB	0.016	0.178	0.10	0.1	100.2%
4	2.43	BR	BMB	0.017	0.190	0.49	0.5	98.6%
5	2.73	NO ₃ -N	BMB	0.038	0.379	0.19	0.2	94.7%
6	3.75	PO ₄ -P	BMB	0.012	0.075	1.04	0.5	208.6%
7	4.26	SO ₄	BMB	0.058	0.363	0.93	1	92.8%

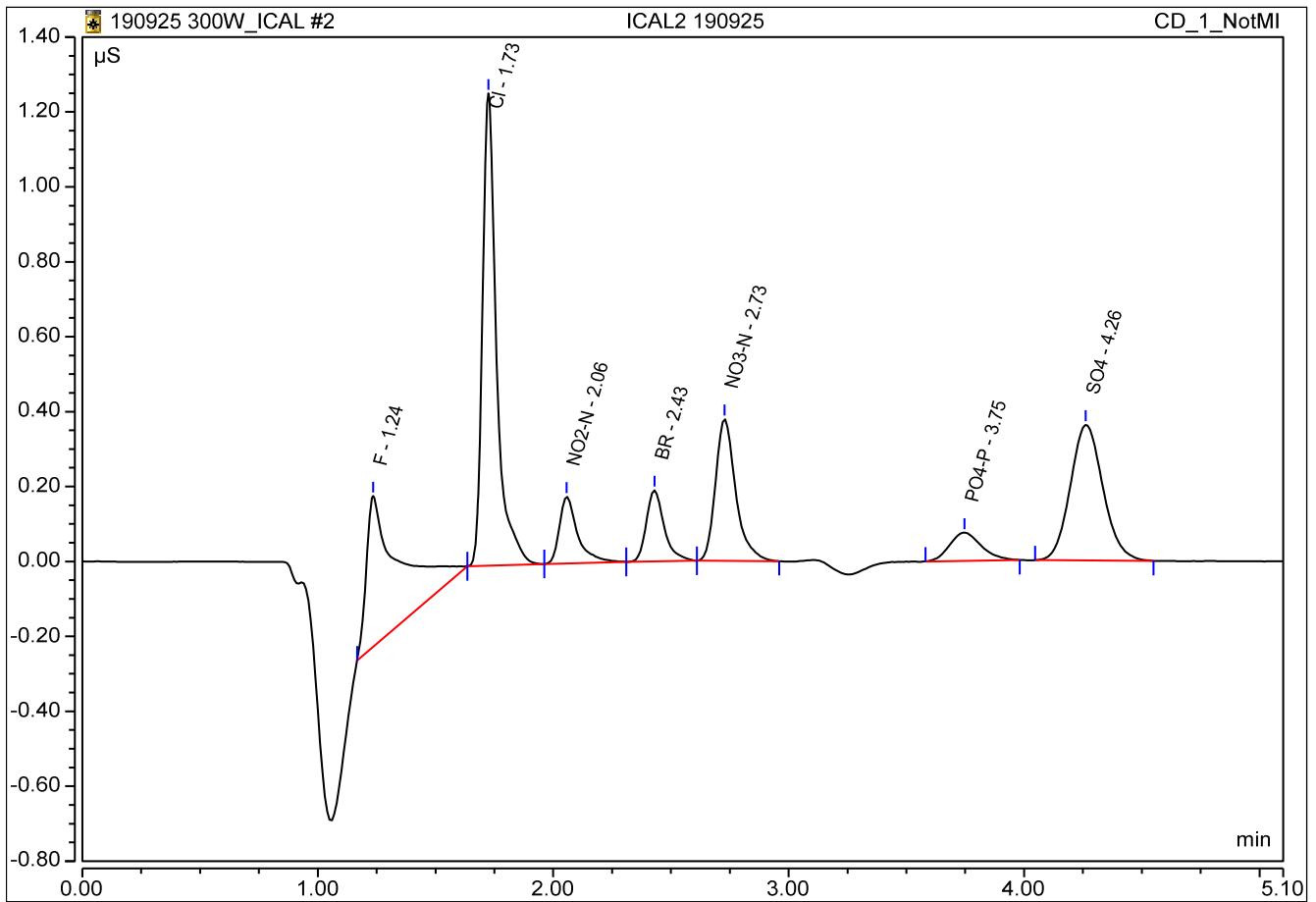


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL2 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:01	Run Time:	5.10

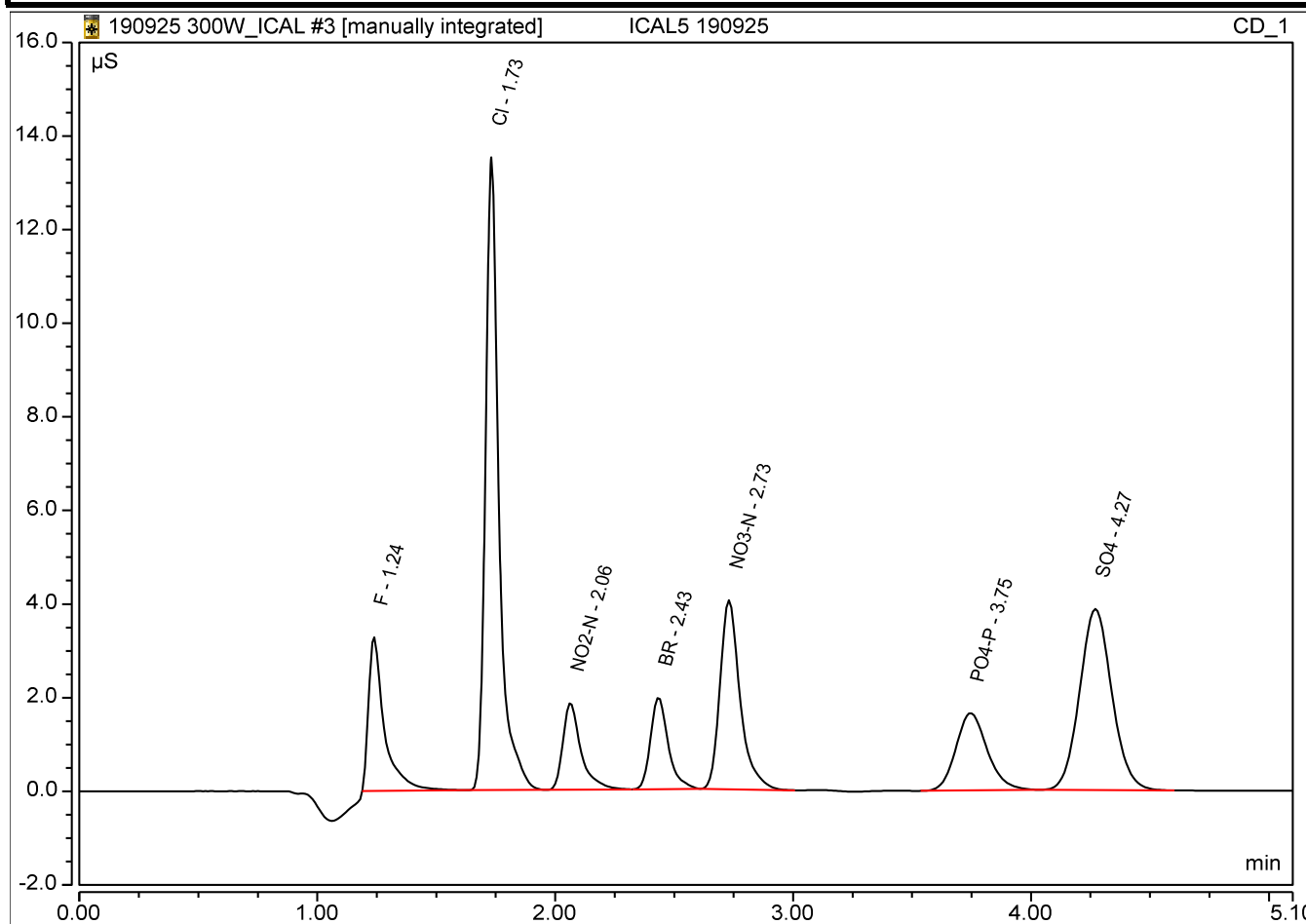
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.24	F	Mb*	0.064	0.402	0.2430
2	1.73	Cl	bMB*	0.087	1.261	0.9701
3	2.06	NO ₂ -N	BMB	0.016	0.178	0.1002
4	2.43	BR	BMB	0.017	0.190	0.4928
5	2.73	NO ₃ -N	BMB	0.038	0.379	0.1895
6	3.75	PO ₄ -P	BMB	0.012	0.075	1.0431
7	4.26	SO ₄	BMB	0.058	0.363	0.9277



Peak Integration Report

Sample Name:	ICAL5 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:09	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S} \cdot \text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S} \cdot \text{min}$	μS	mg/L	mg/L	
1	1.24	F	MB*	0.254	3.299	2.19	2.5	87.7%
2	1.73	Cl	BMB	0.888	13.520	8.52	10	85.2%
3	2.06	NO ₂ -N	BMB	0.163	1.858	0.96	1	96.1%
4	2.43	BR	BMB	0.169	1.960	4.74	5	94.7%
5	2.73	NO ₃ -N	BMB	0.396	4.038	1.81	2	90.3%
6	3.75	PO ₄ -P	BMB	0.252	1.652	4.33	5	86.7%
7	4.27	SO ₄	BMB	0.608	3.869	9.07	10	90.7%

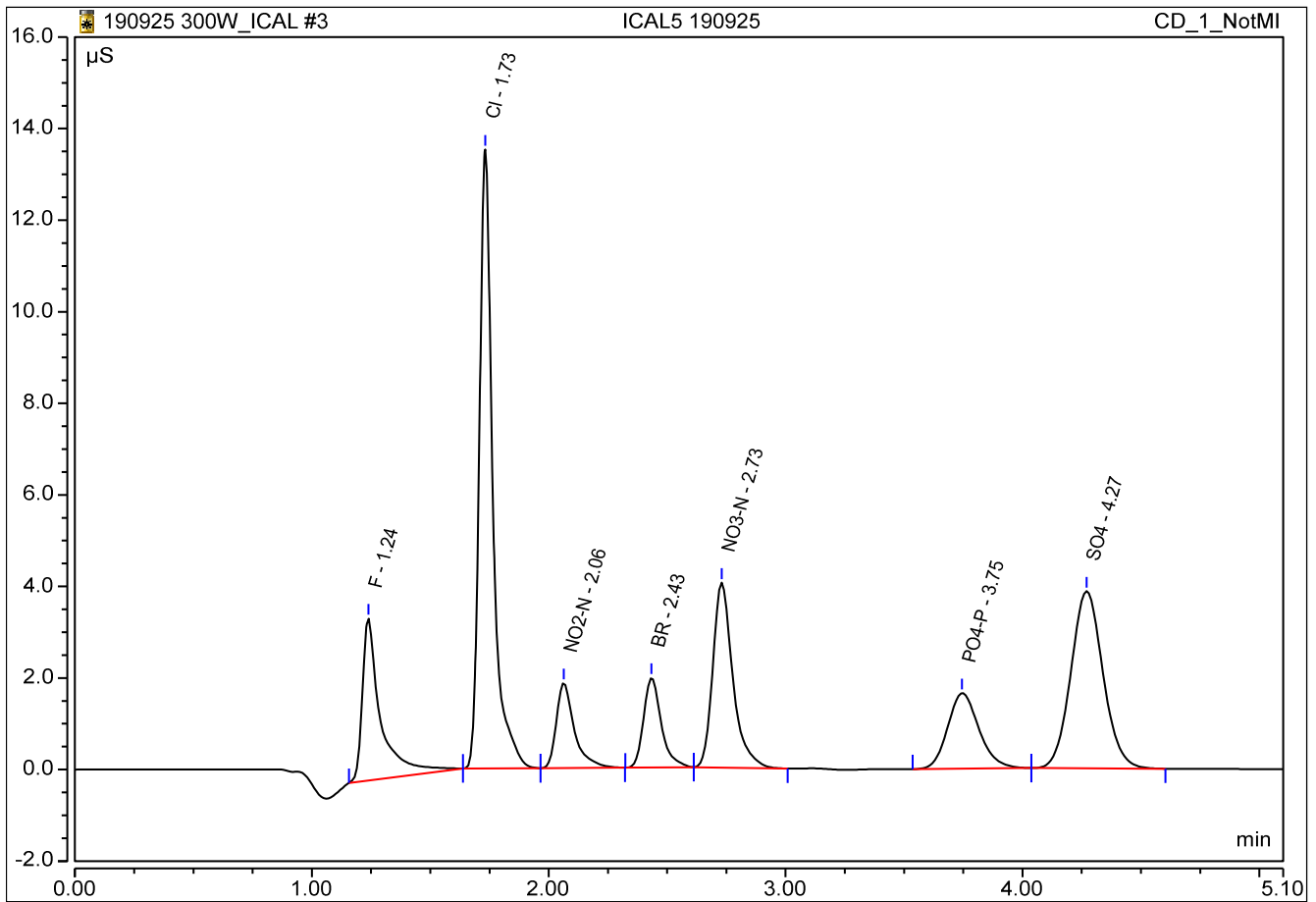


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL5 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:09	Run Time:	5.10

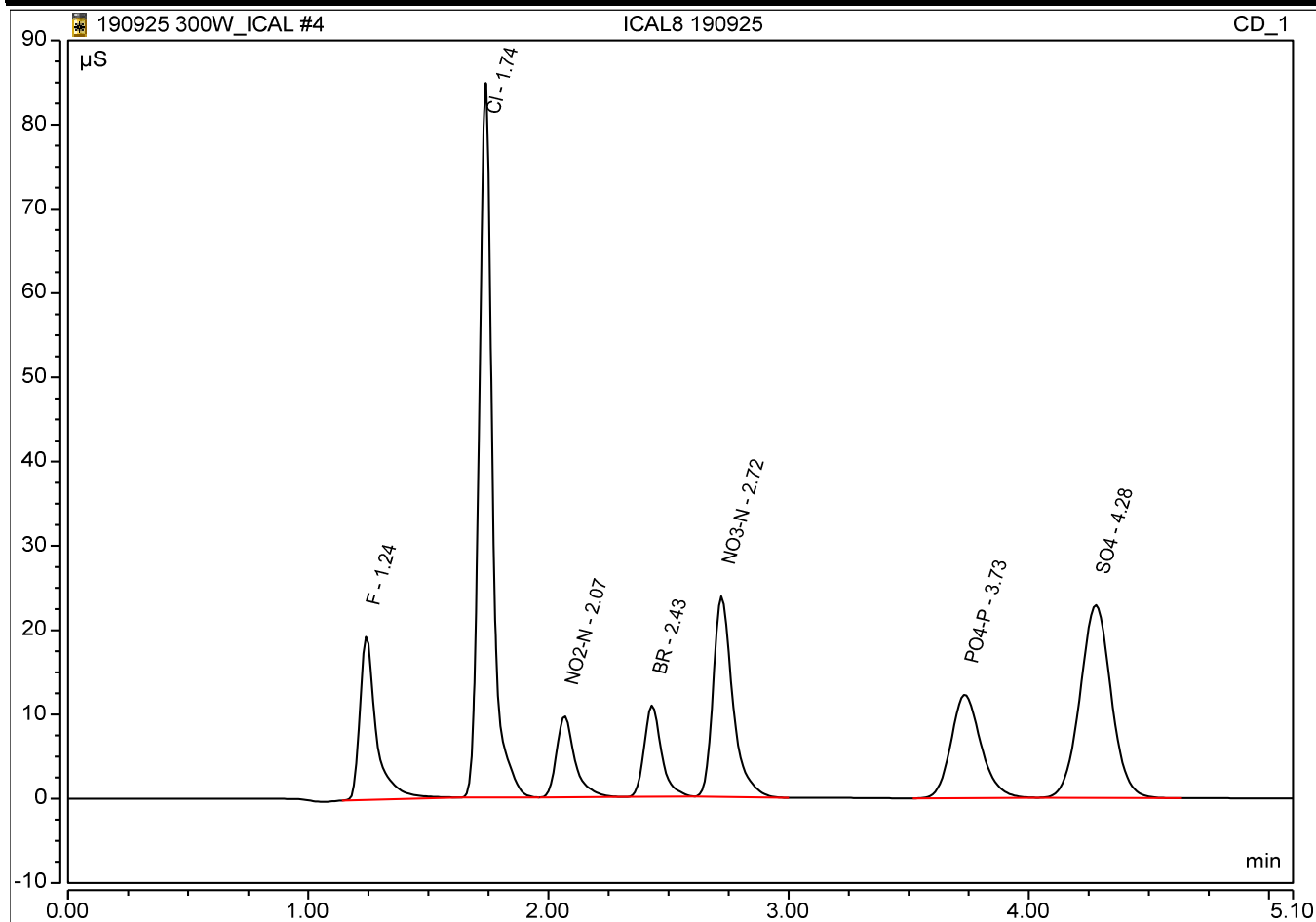
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.24	F	MB*	0.317	3.541	2.3555
2	1.73	Cl	BMB	0.888	13.520	8.5227
3	2.06	NO2-N	BMB	0.163	1.858	0.9607
4	2.43	BR	BMB	0.169	1.960	4.7374
5	2.73	NO3-N	BMB	0.396	4.038	1.8054
6	3.75	PO4-P	BMB	0.252	1.652	4.3347
7	4.27	SO4	BMB	0.608	3.869	9.0681



Peak Integration Report

Sample Name:		ICAL8 190925			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:16			Run Time:		5.10	

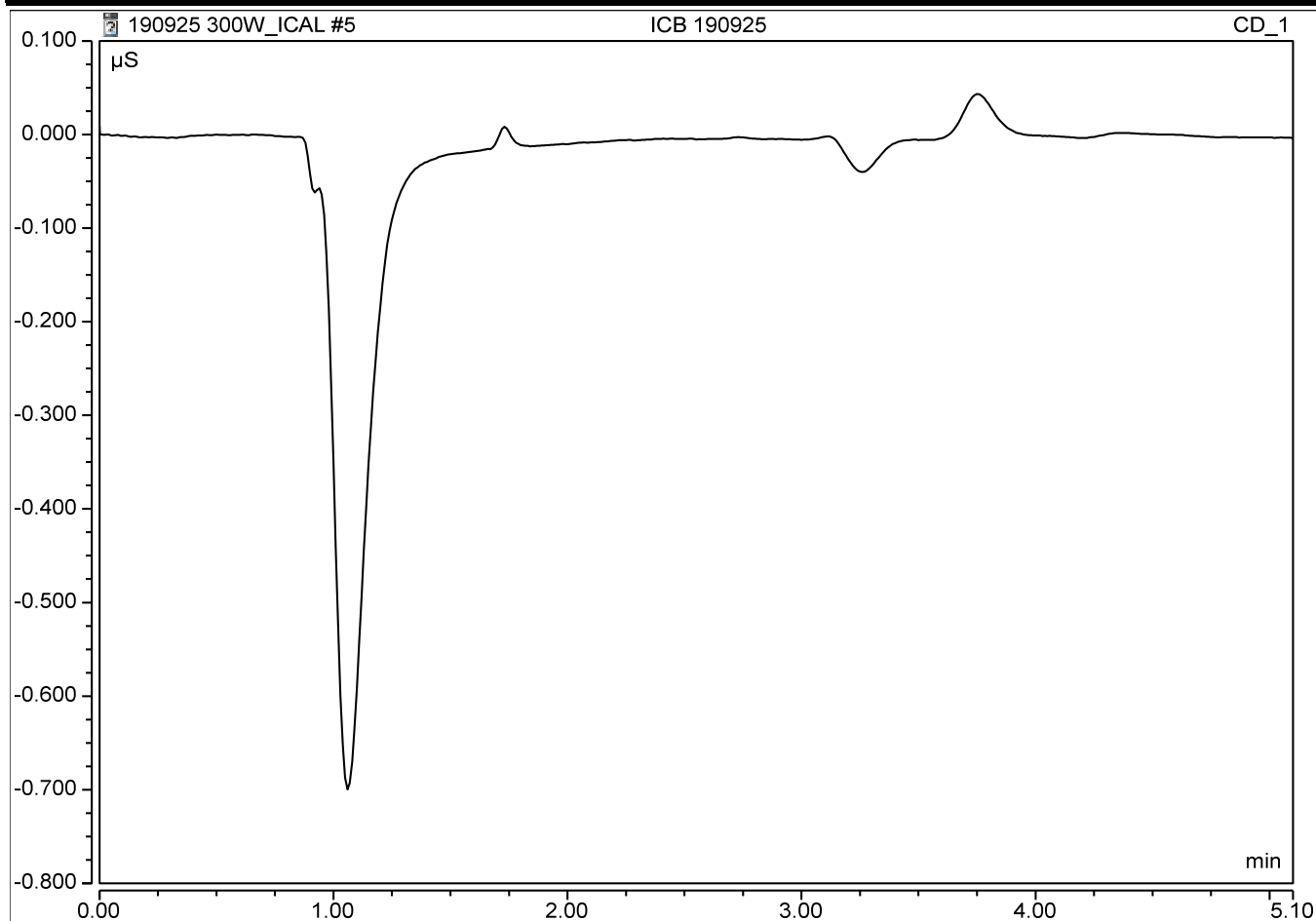
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	BMB	1.552	19.416	12.82	12.5	102.6%
2	1.74	Cl	BMB	5.438	84.821	51.45	50	102.9%
3	2.07	NO2-N	BMB	0.862	9.634	5.04	5	100.8%
4	2.43	BR	BMB	0.906	10.832	25.26	25	101.0%
5	2.72	NO3-N	BMB	2.255	23.813	10.19	10	101.9%
6	3.73	PO4-P	BMB	1.773	12.273	25.12	25	100.5%
7	4.28	SO4	BMB	3.437	22.889	50.95	50	101.9%



Peak Integration Report

Sample Name:	ICB 190925	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:24	Run Time:	5.10

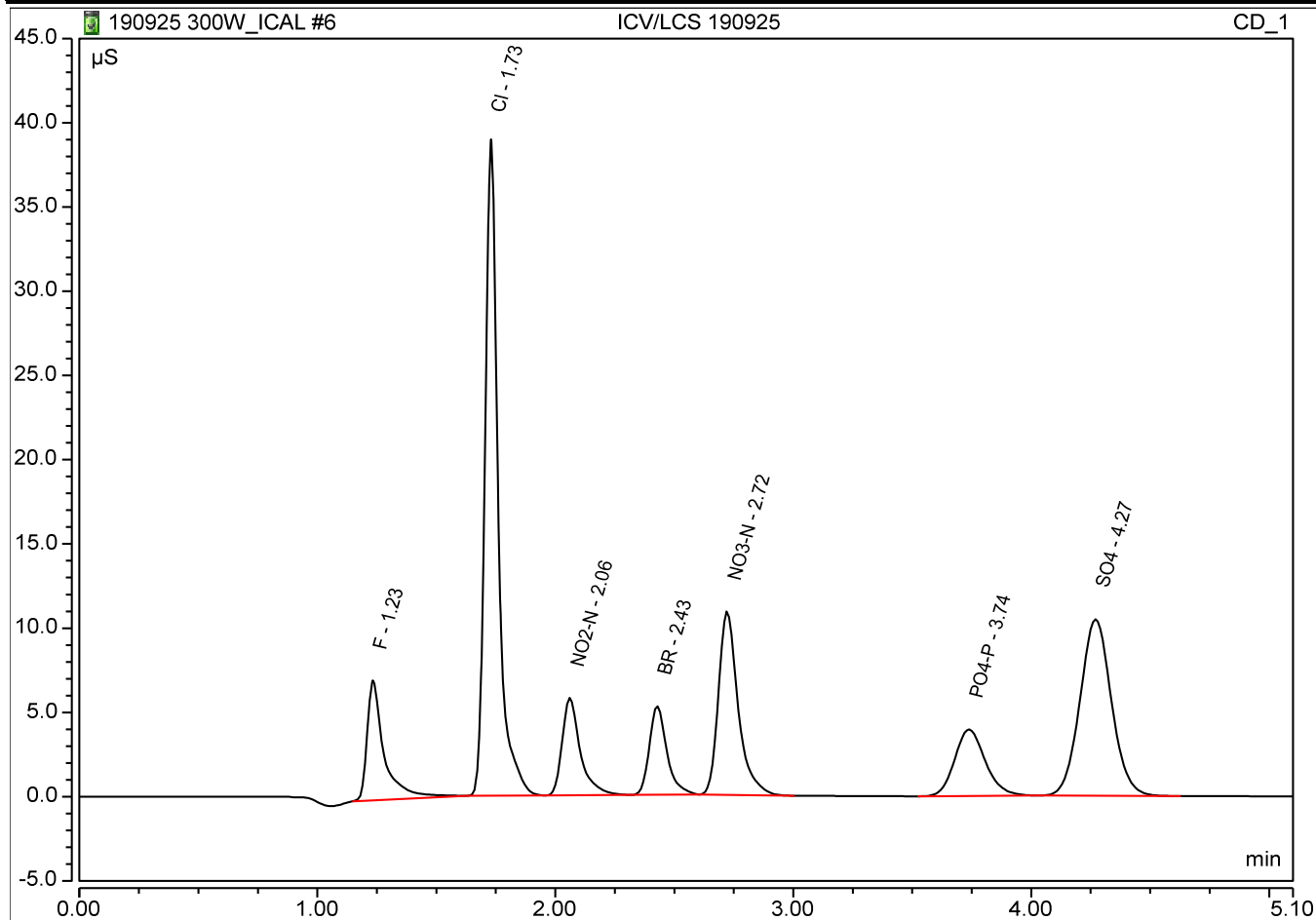
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:		ICV/LCS 190925			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:31			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.591	7.128	4.95	5	99.0%
2	1.73	Cl	BMB	2.480	38.952	23.54	25	94.2%
3	2.06	NO2-N	BMB	0.510	5.775	2.99	3.04	98.2%
4	2.43	BR	BMB	0.448	5.264	12.51	12.5	100.1%
5	2.72	NO3-N	BMB	1.047	10.885	4.74	5	94.8%
6	3.74	PO4-P	BMB	0.590	3.949	8.95	10	89.5%
7	4.27	SO4	BMB	1.609	10.485	23.88	25	95.5%



Algorithm Check

y = Peak Area

x = mg/L S04

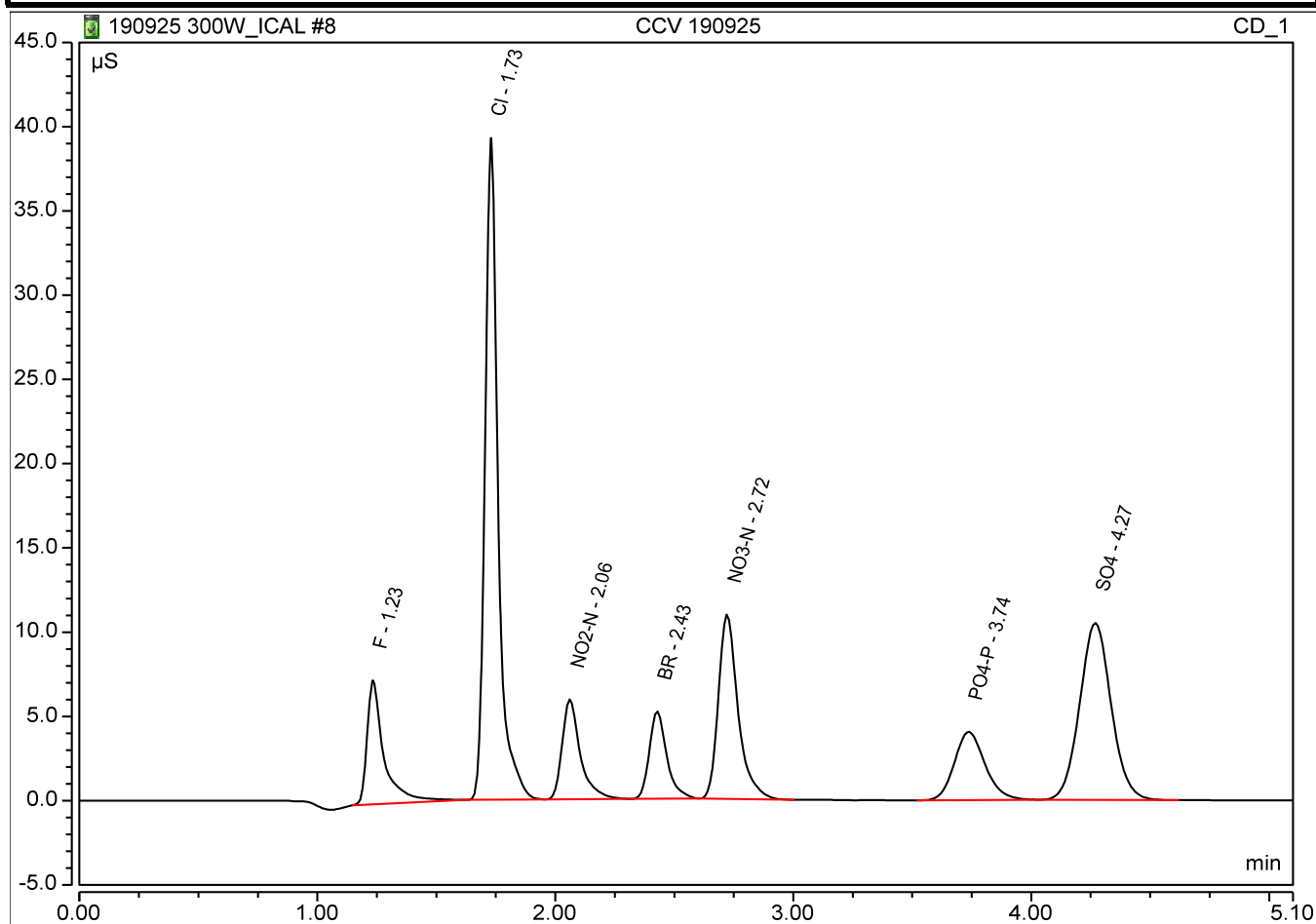
$$y = 0.0676 \quad x + \quad -0.0044$$

$$y = 1.6089 \quad \text{therefor } x = 23.86 \text{ HH 190929}$$

Peak Integration Report

Sample Name:	CCV 190925	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:46	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB	0.605	7.365	5.07	5	101.4%
2	1.73	Cl	BMB	2.496	39.269	23.70	25	94.8%
3	2.06	NO ₂ -N	BMB	0.524	5.930	3.07	3.04	100.8%
4	2.43	BR	BMB	0.441	5.182	12.30	12.5	98.4%
5	2.72	NO ₃ -N	BMB	1.050	10.950	4.76	5	95.1%
6	3.74	PO ₄ -P	BMB	0.605	4.051	9.15	10	91.5%
7	4.27	SO ₄	BMB	1.614	10.505	23.95	25	95.8%

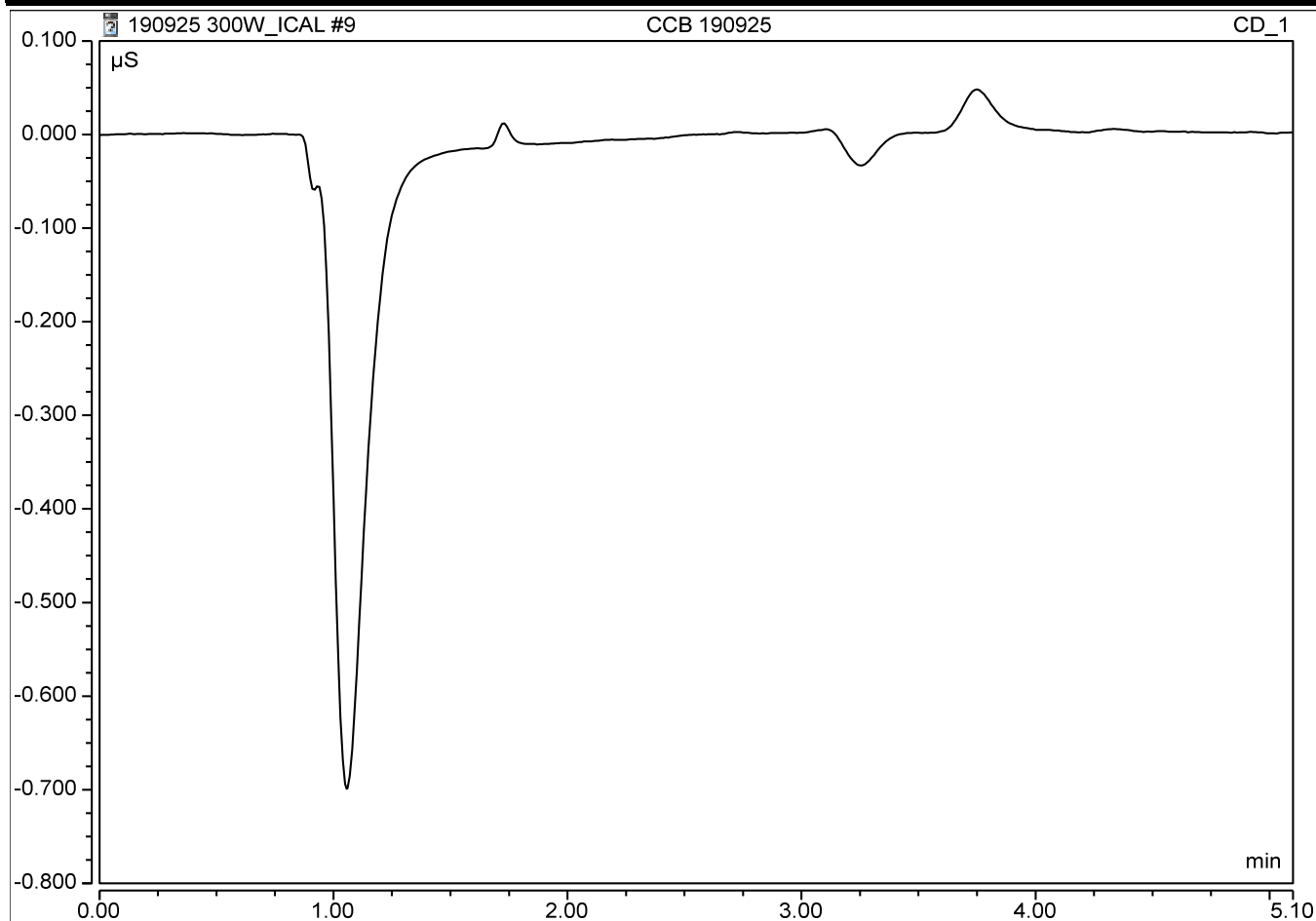


Logged on User: BW
Instrument: Charlie System_1
Sequence: 190925 300W_ICAL

Peak Integration Report

Sample Name:	CCB 190925	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:54	Run Time:	5.10

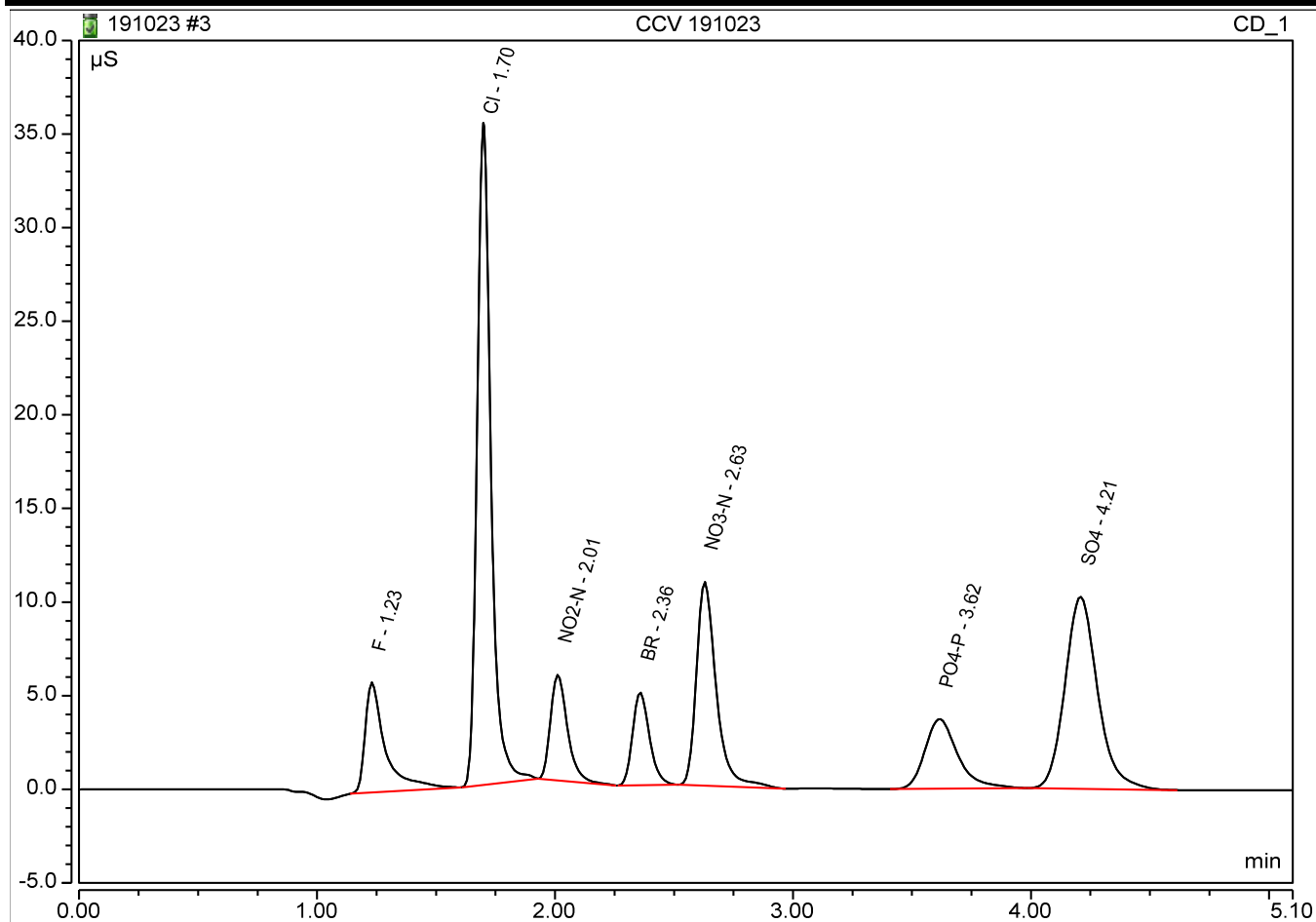
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:		CCV 191023			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 17:48			Run Time:		5.10	

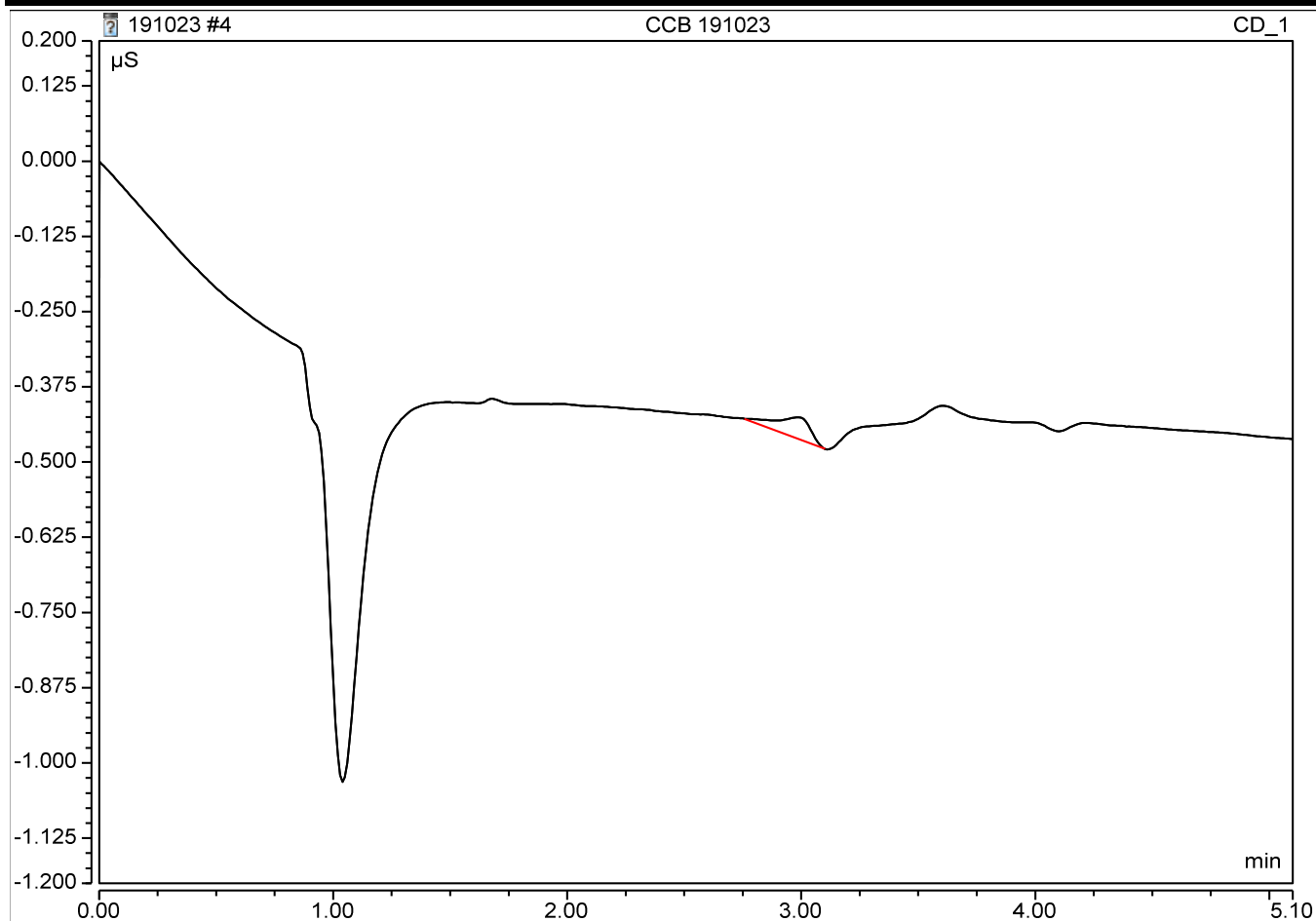
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB	0.581	5.875	4.87	5	97.5%
2	1.70	Cl	BMB	2.375	35.363	22.56	25	90.2%
3	2.01	NO ₂ -N	BMB	0.471	5.653	2.76	3.04	90.6%
4	2.36	BR	BMB	0.410	4.962	11.45	12.5	91.6%
5	2.63	NO ₃ -N	BMB	1.054	10.890	4.78	5	95.5%
6	3.62	PO ₄ -P	BMB	0.595	3.718	9.02	10	90.2%
7	4.21	SO ₄	BMB	1.634	10.252	24.26	25	97.0%



Peak Integration Report

Sample Name:	CCB 191023	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 17:55	Run Time:	5.10

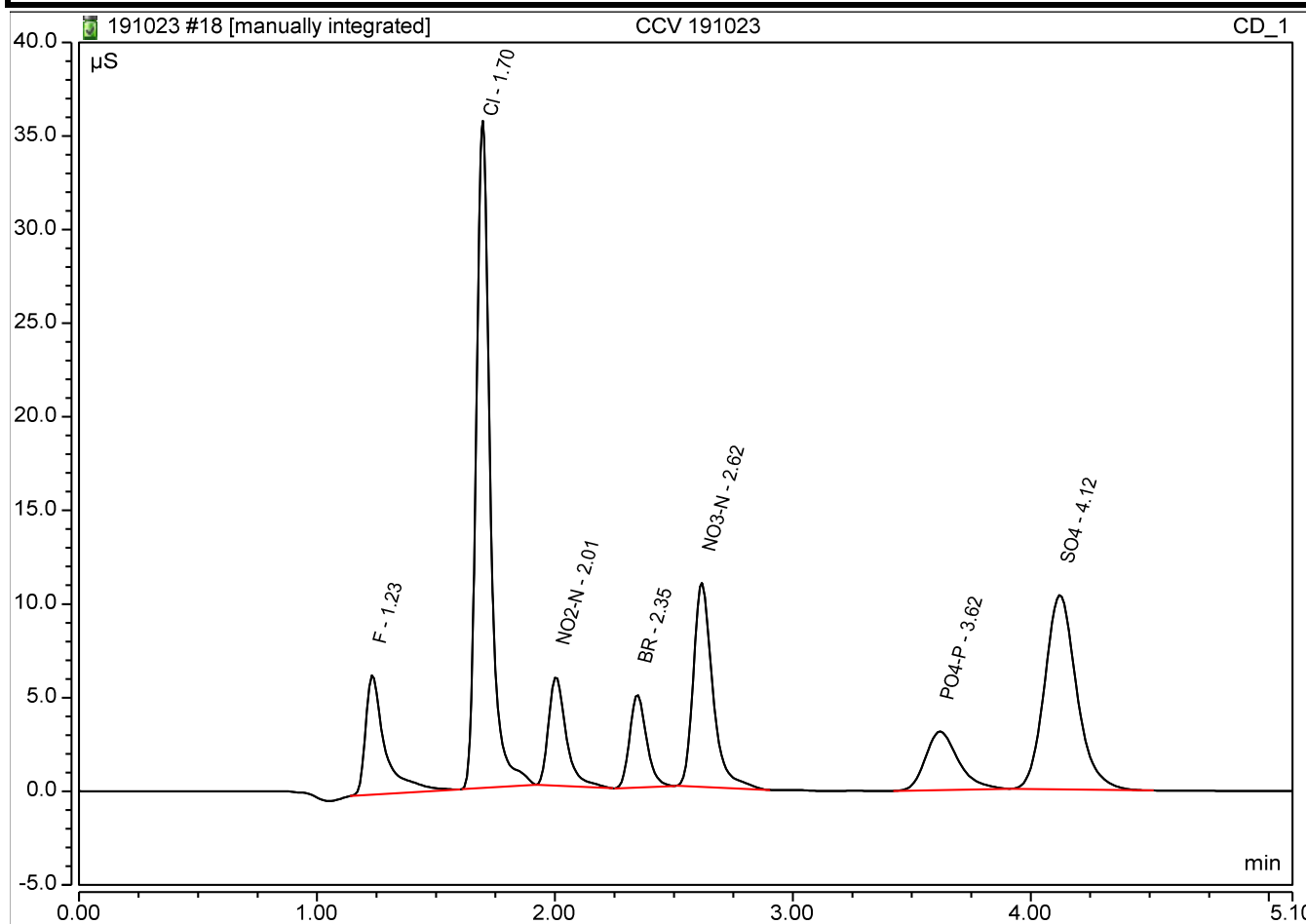
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:		CCV 191023			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 19:40			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.609	6.413	5.10	5	102.0%
2	1.70	Cl	BMB*	2.418	35.630	22.96	25	91.8%
3	2.01	NO2-N	bMB*	0.503	5.826	2.94	3.04	96.8%
4	2.35	BR	BMB	0.407	4.950	11.35	12.5	90.8%
5	2.62	NO3-N	BMB*	1.032	10.901	4.68	5	93.5%
6	3.62	PO4-P	BMB	0.498	3.124	7.69	10	76.9%
7	4.12	SO4	BMB	1.621	10.379	24.06	25	96.2%

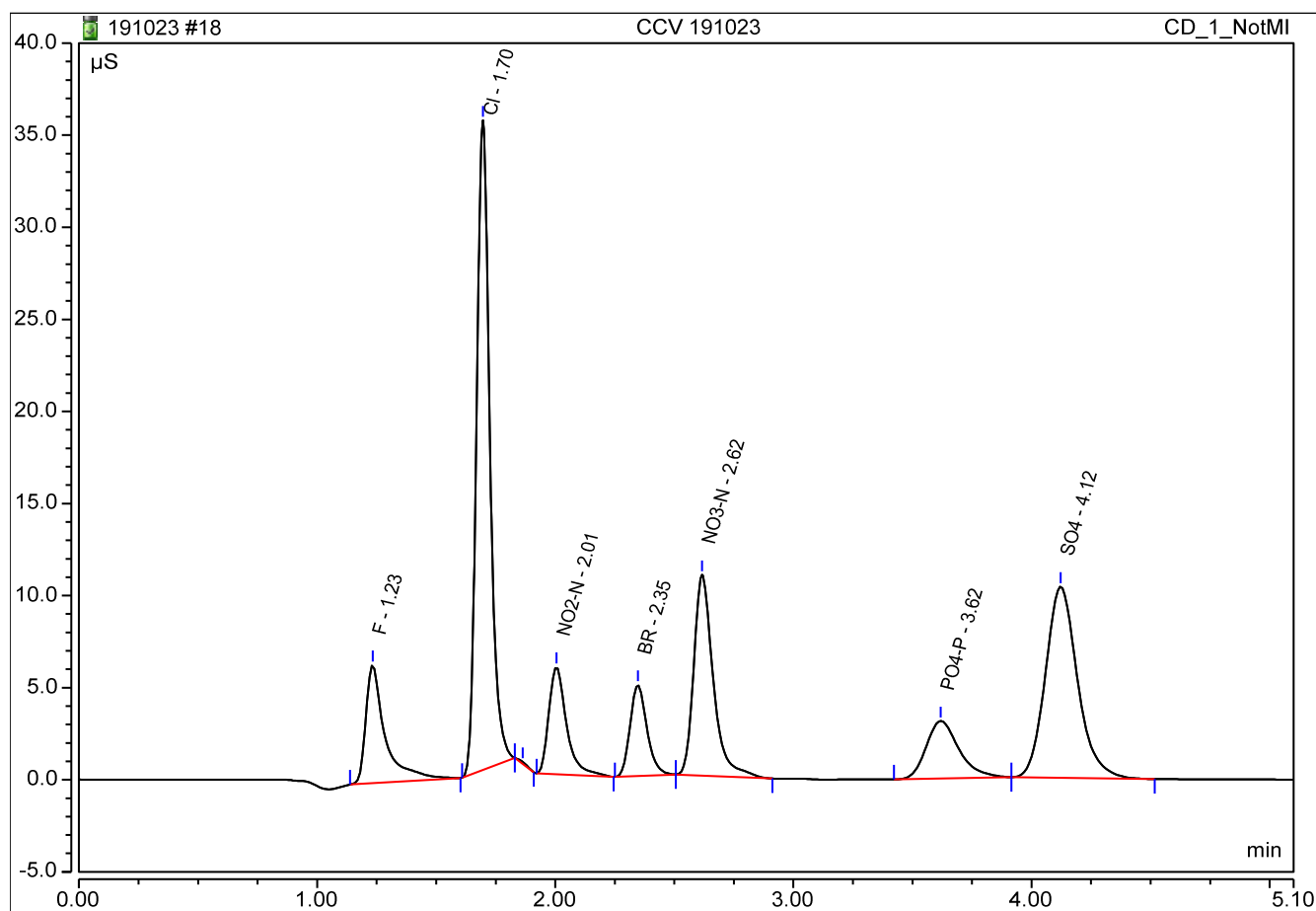


CI MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	CCV 191023	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 19:40	Run Time:	5.10

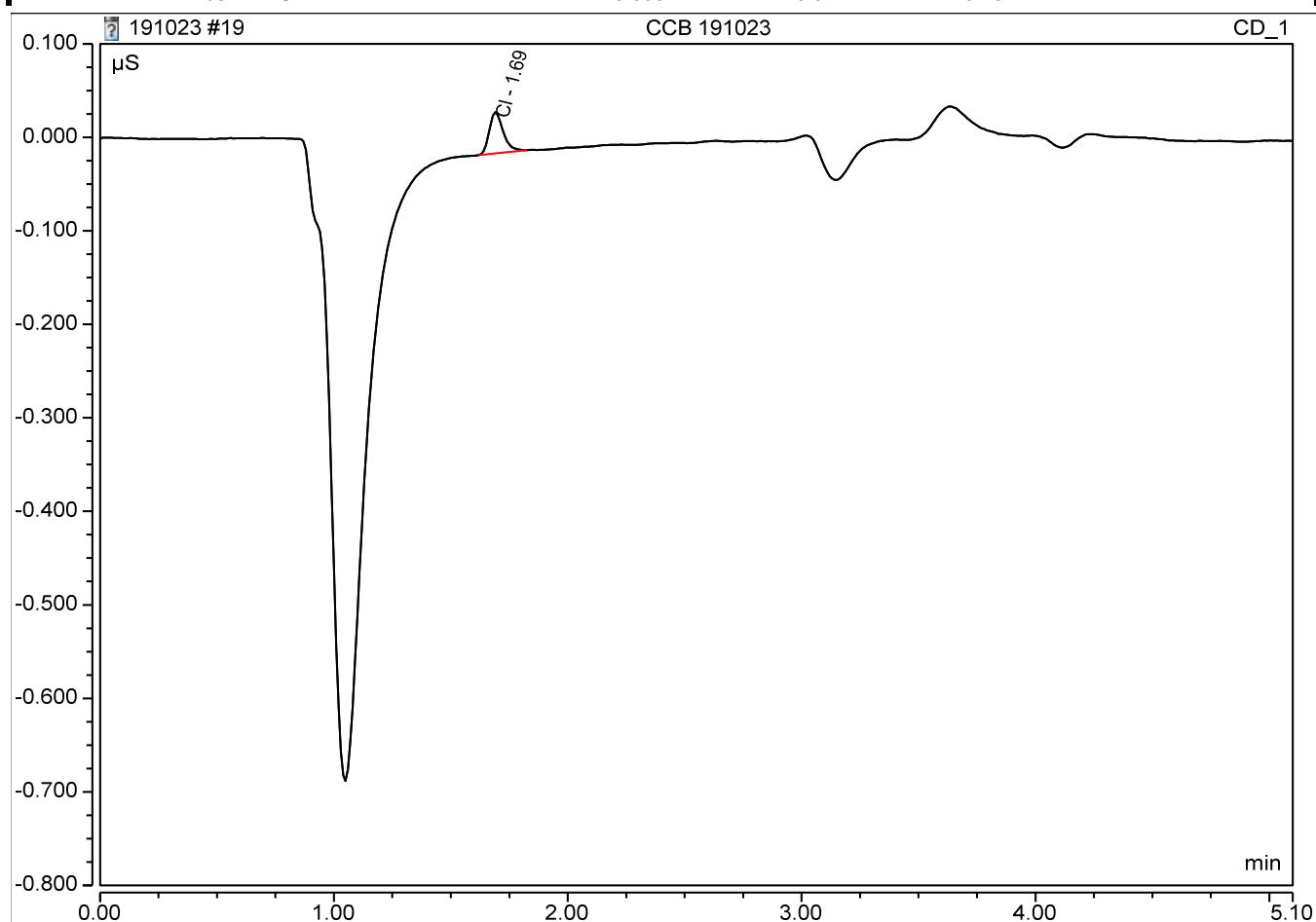
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.23	F	BMB	0.609	6.413	4.7848
2	1.70	Cl	BMB*	2.273	35.268	21.5884
3	2.01	NO ₂ -N	bMB*	0.503	5.826	2.9416
4	2.35	BR	BMB	0.407	4.950	11.3498
5	2.62	NO ₃ -N	BMB*	1.033	10.902	4.6796
6	3.62	PO ₄ -P	BMB	0.498	3.124	7.6937
7	4.12	SO ₄	BMB	1.621	10.379	24.0612



Peak Integration Report

Sample Name:	CCB 191023	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 19:47	Run Time:	5.10

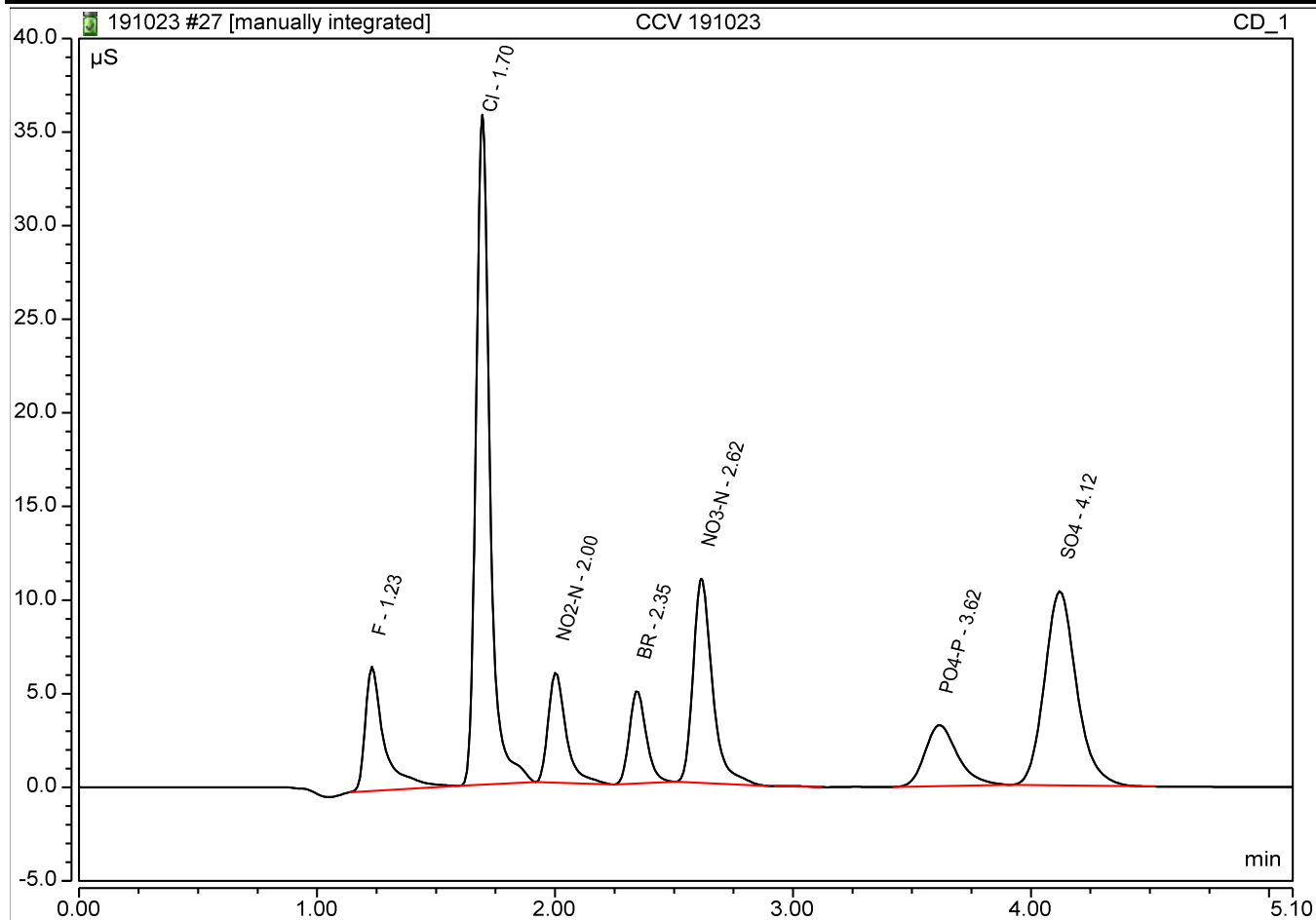
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	0.003	0.044	0.18		



Peak Integration Report

Sample Name:		CCV 191023			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 20:47			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB*	0.616	6.635	5.16	5	103.2%
2	1.70	Cl	bMB*	2.429	35.793	23.06	25	92.2%
3	2.00	NO2-N	bMB*	0.514	5.891	3.00	3.04	98.8%
4	2.35	BR	BMB	0.407	4.964	11.36	12.5	90.9%
5	2.62	NO3-N	BMB	1.031	10.917	4.67	5	93.4%
7	3.62	PO4-P	BMB	0.519	3.262	7.98	10	79.8%
8	4.12	SO4	BMB	1.622	10.378	24.08	25	96.3%

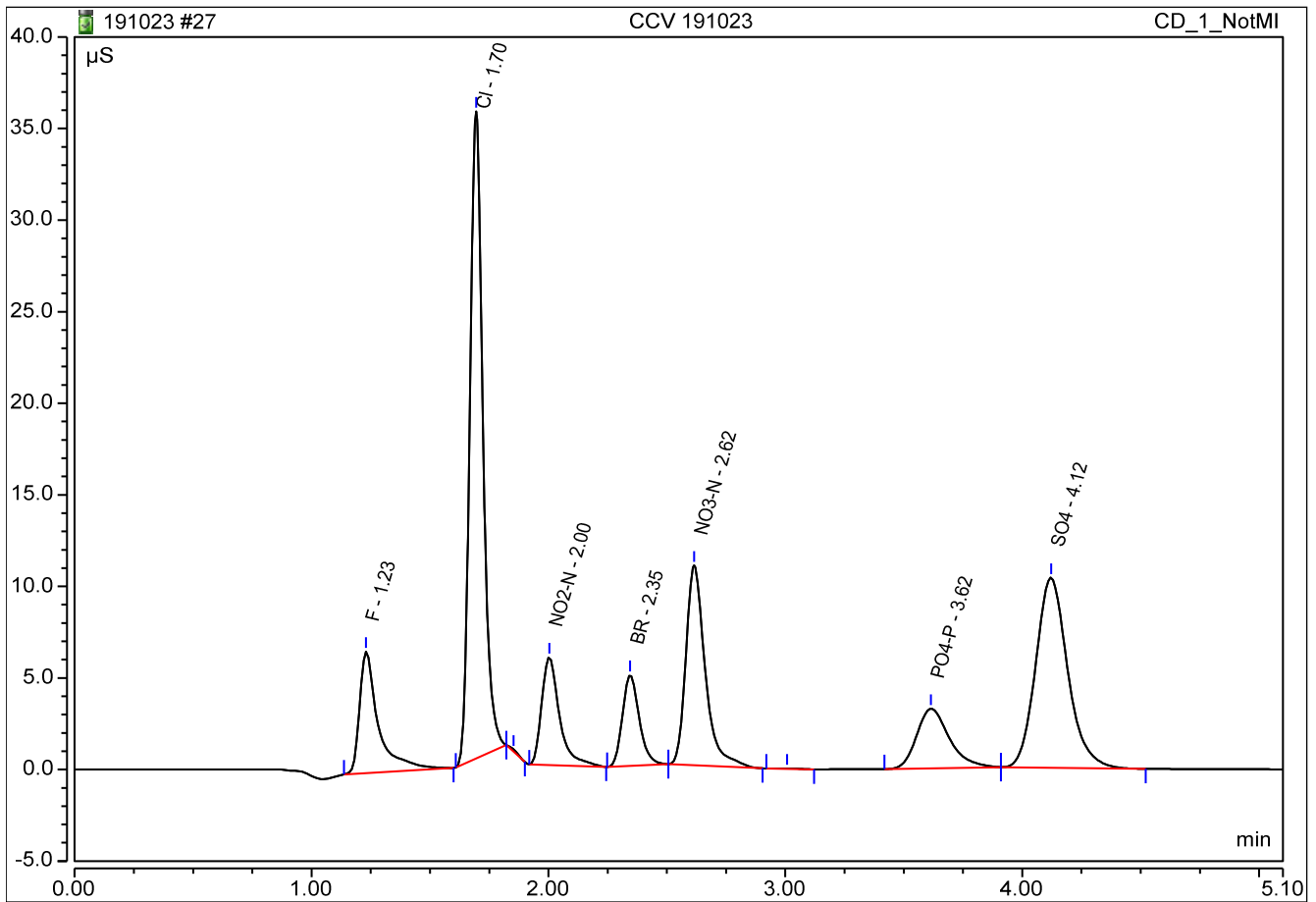


MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	CCV 191023	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:47	Run Time:	5.10

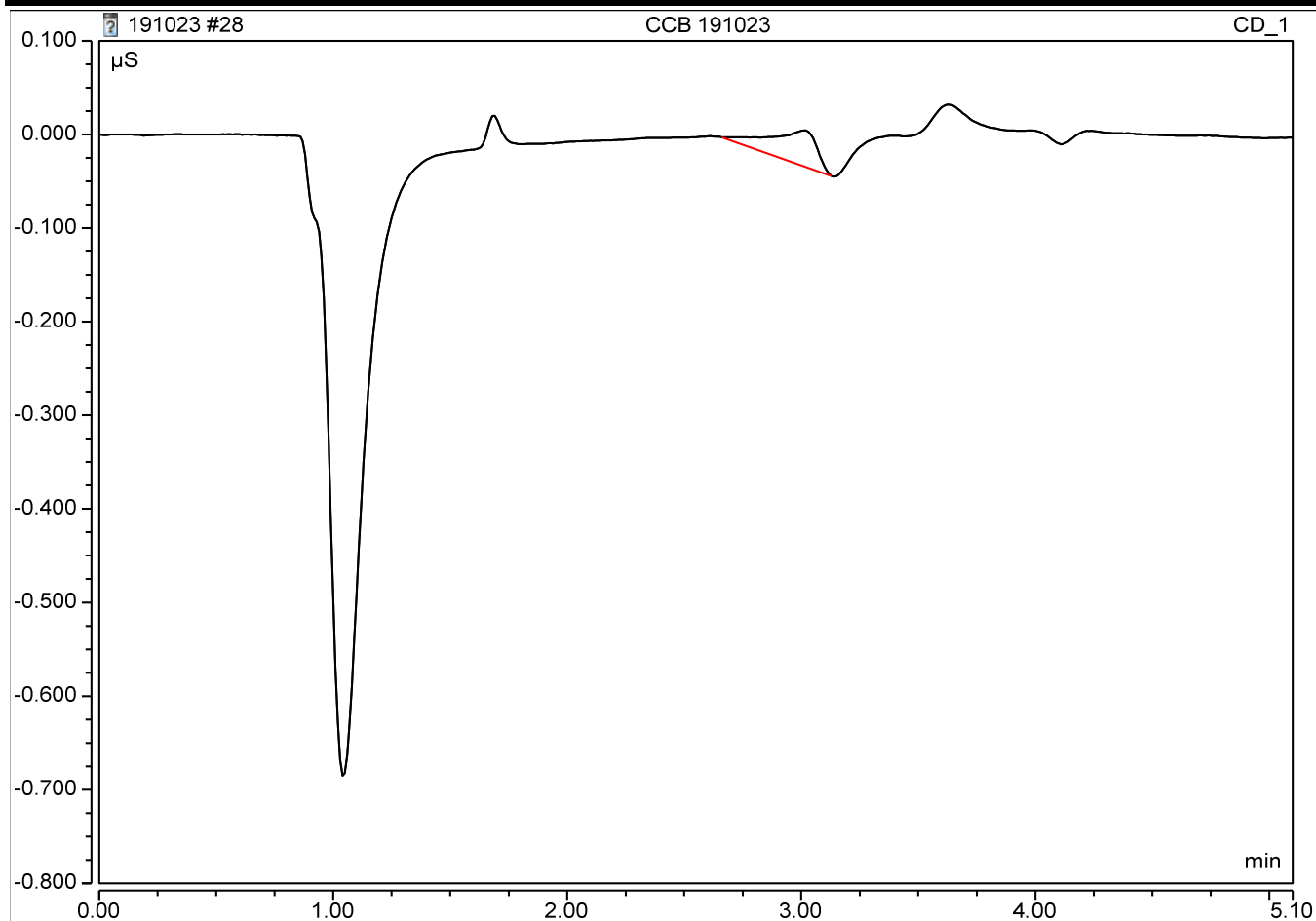
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.23	F	BMB*	0.616	6.635	4.8432
2	1.70	Cl	bMb*	2.253	35.331	21.3992
3	2.00	NO ₂ -N	bMB*	0.514	5.891	3.0050
4	2.35	BR	BMB	0.407	4.964	11.3592
5	2.62	NO ₃ -N	BMB	1.031	10.917	4.6707
7	3.62	PO ₄ -P	BMB	0.519	3.262	7.9810
8	4.12	SO ₄	BMB	1.622	10.378	24.0770



Peak Integration Report

Sample Name:	CCB 191023	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:55	Run Time:	5.10

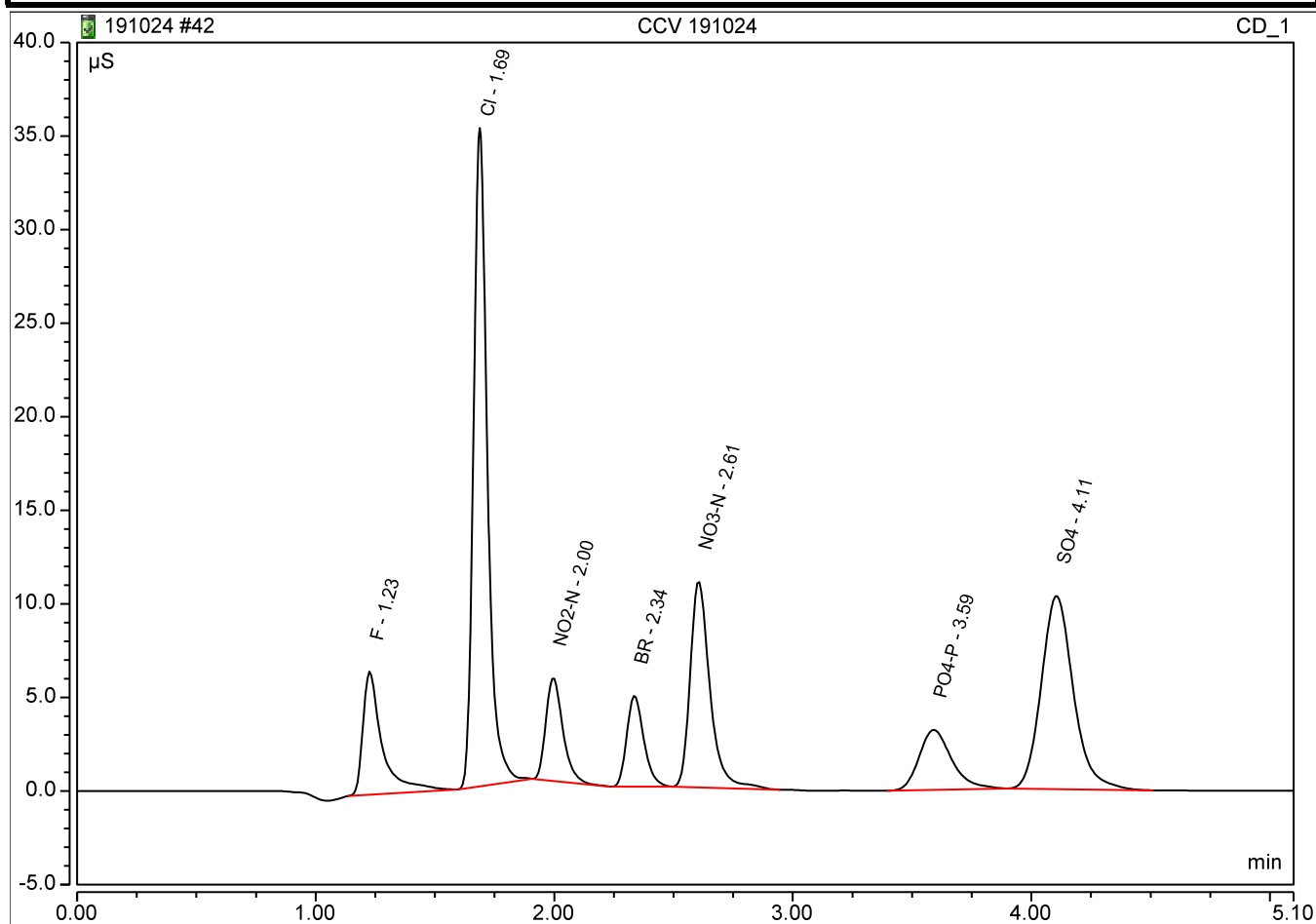
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:	CCV 191024	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 08:51	Run Time:	5.10

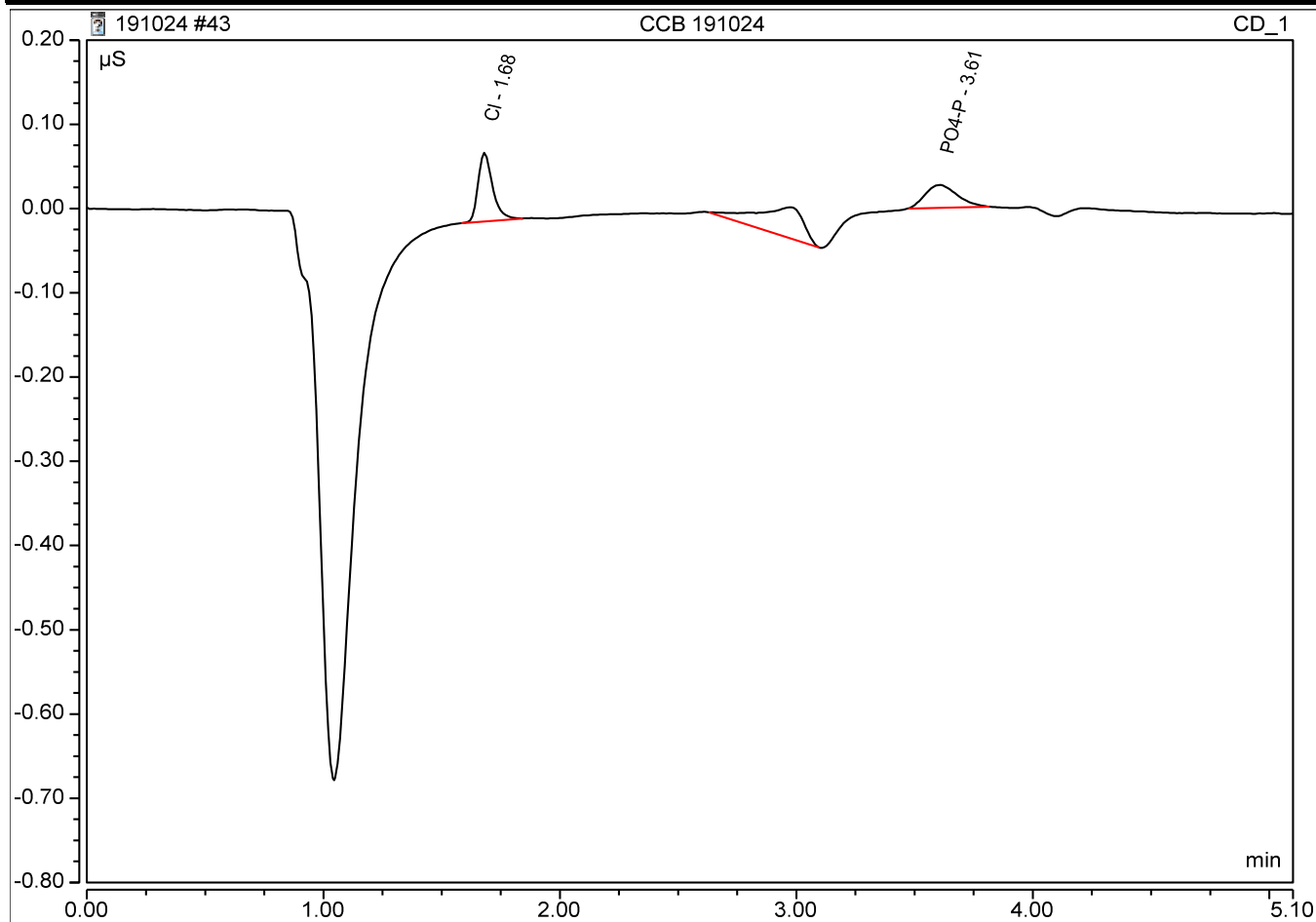
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.621	6.580	5.20	5	104.0%
2	1.69	Cl	BMB	2.357	35.173	22.39	25	89.5%
3	2.00	NO2-N	BMB	0.457	5.510	2.68	3.04	88.0%
4	2.34	BR	BMB	0.403	4.864	11.25	12.5	90.0%
5	2.61	NO3-N	BMB	1.058	11.026	4.79	5	95.9%
6	3.59	PO4-P	BMB	0.507	3.203	7.81	10	78.1%
7	4.11	SO4	BMB	1.608	10.329	23.87	25	95.5%



Peak Integration Report

Sample Name:		CCB 191024			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 08:59			Run Time:		5.10	

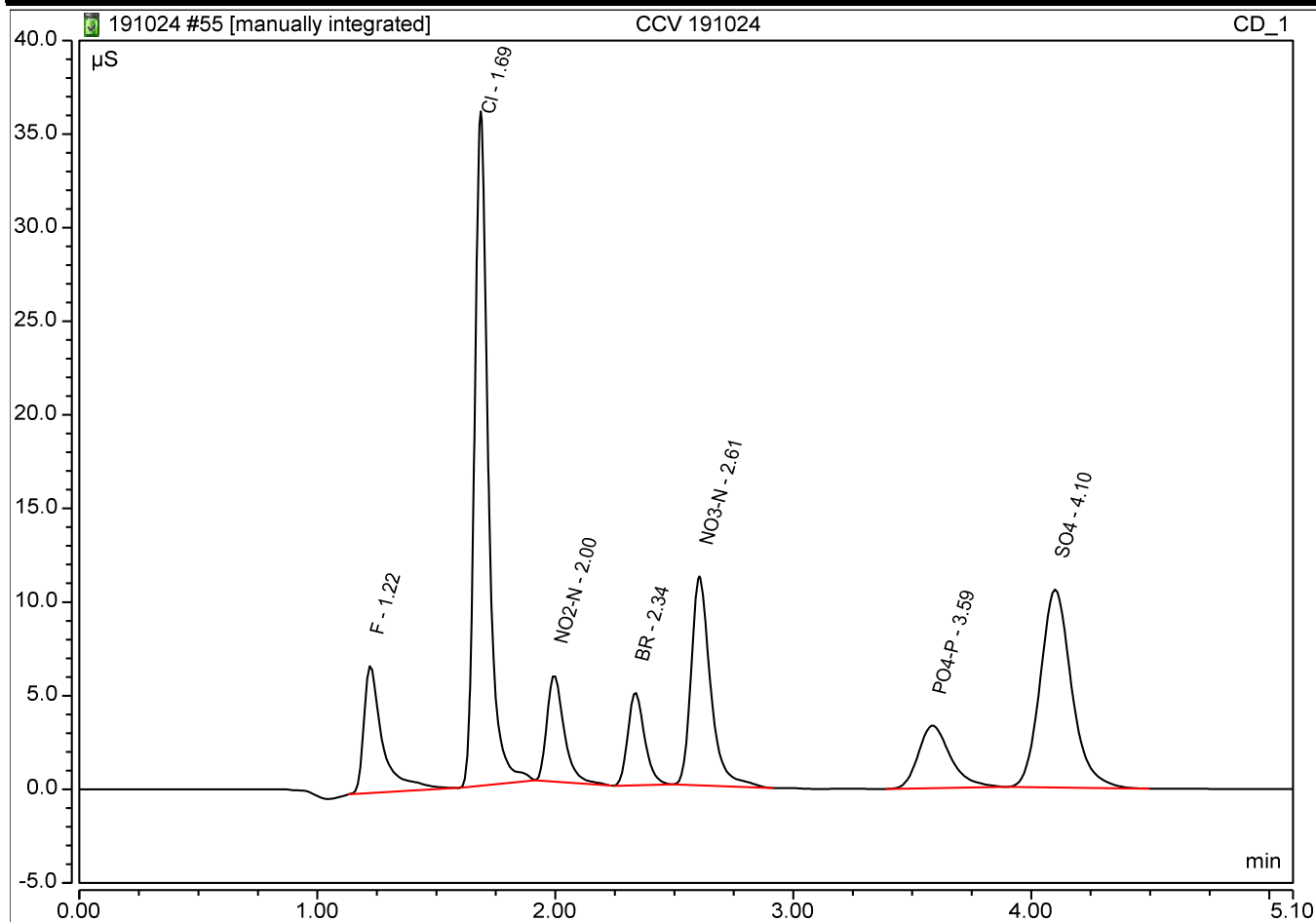
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.68	Cl	BMB	0.006	0.082	0.20		
3	3.61	PO4-P	BMB	0.004	0.027	0.94		



Peak Integration Report

Sample Name:		CCV 191024			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 10:28			Run Time:		5.10	

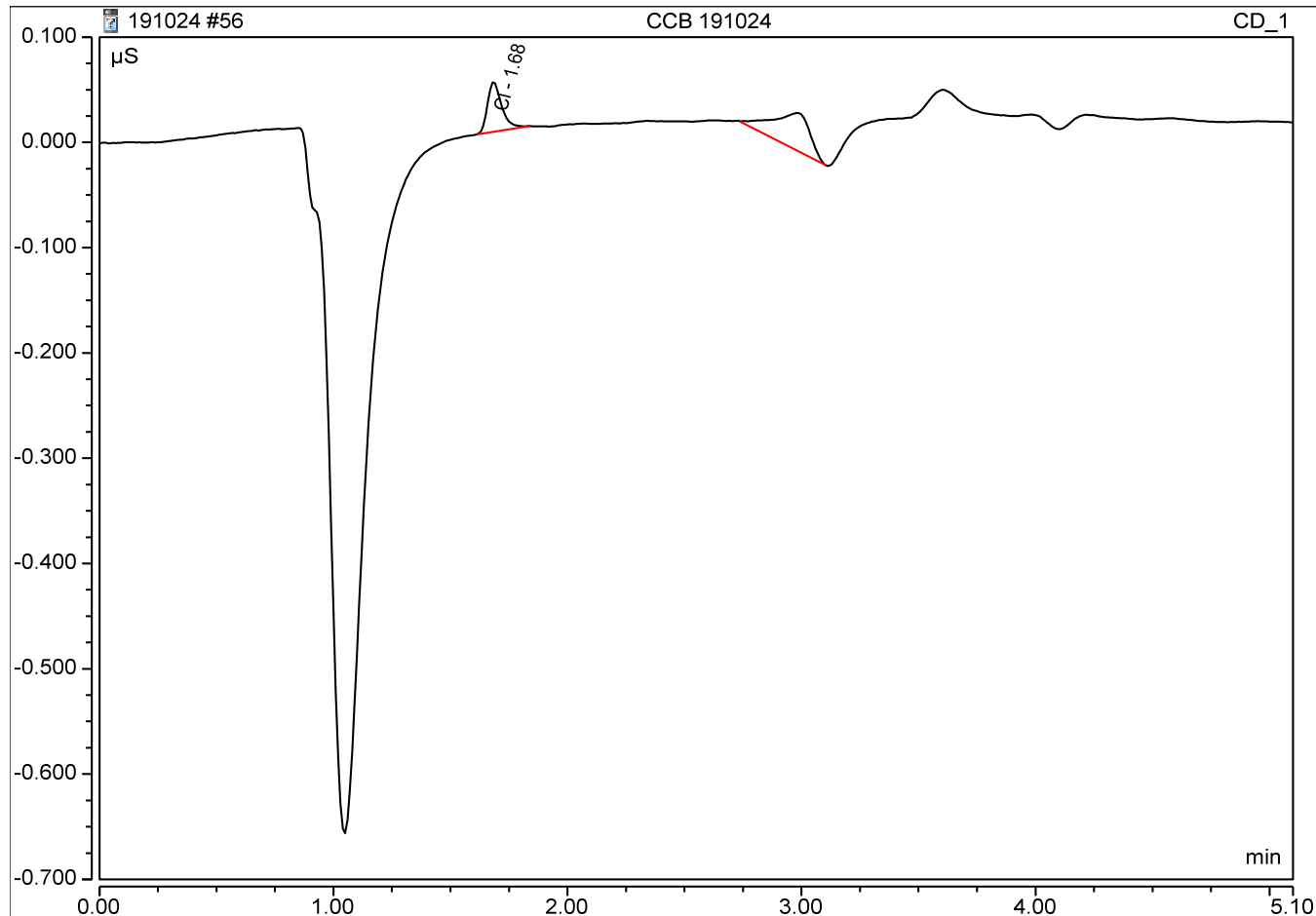
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.22	F	BMB	0.627	6.812	5.25	5	105.0%
2	1.69	Cl	BMB*	2.399	36.015	22.78	25	91.1%
3	2.00	NO2-N	bBMB*	0.480	5.693	2.81	3.04	92.4%
4	2.34	BR	BMB	0.404	4.967	11.29	12.5	90.3%
5	2.61	NO3-N	BMB	1.054	11.167	4.78	5	95.6%
6	3.59	PO4-P	BMB	0.523	3.341	8.04	10	80.4%
7	4.10	SO4	BMB	1.615	10.576	23.97	25	95.9%



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 10:36	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
1	1.68	Cl	BMB	0.003	0.047	0.18		

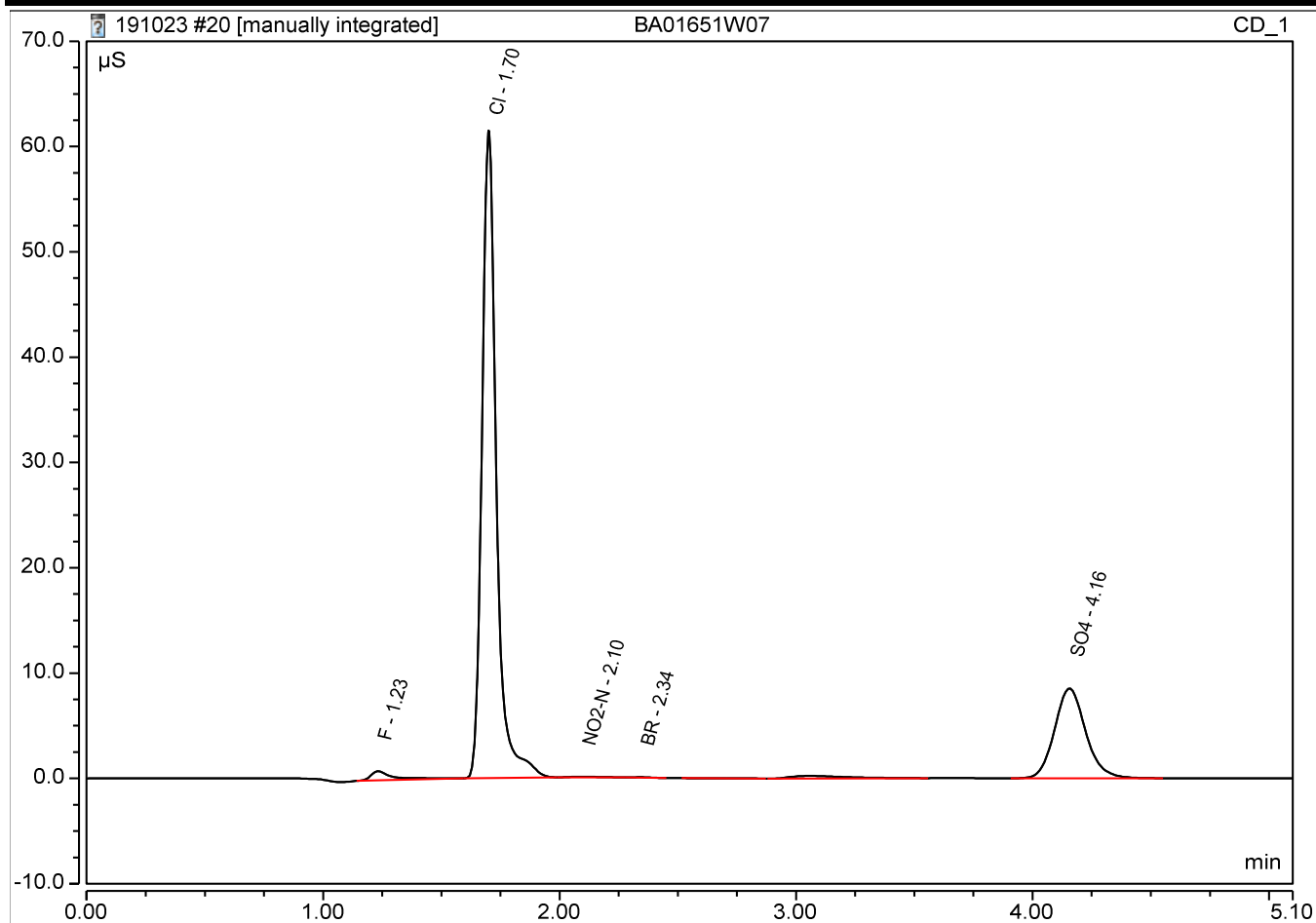


INORGANIC ANALYSIS
Raw Data

Peak Integration Report

Sample Name:	BA01651W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 19:55	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB*	0.097	0.869	0.91		
2	1.70	Cl	bMB*	4.343	61.489	41.12		
3	2.10	NO2-N	bMB*	0.010	0.063	0.06		
4	2.34	BR	BMB	0.004	0.045	0.13		
7	4.16	SO4	BMB	1.297	8.536	19.27		

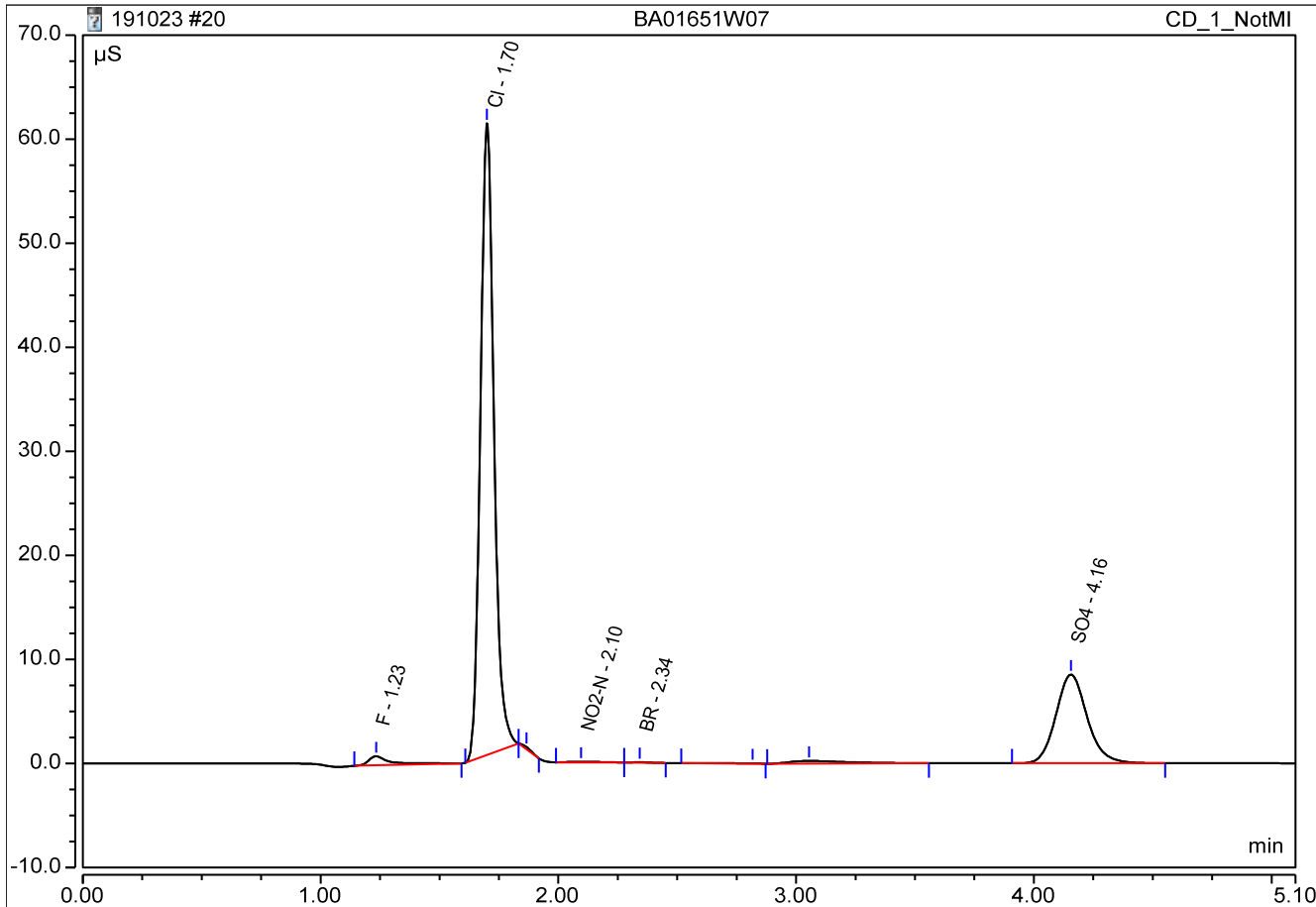


CI MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01651W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 19:55	Run Time:	5.10

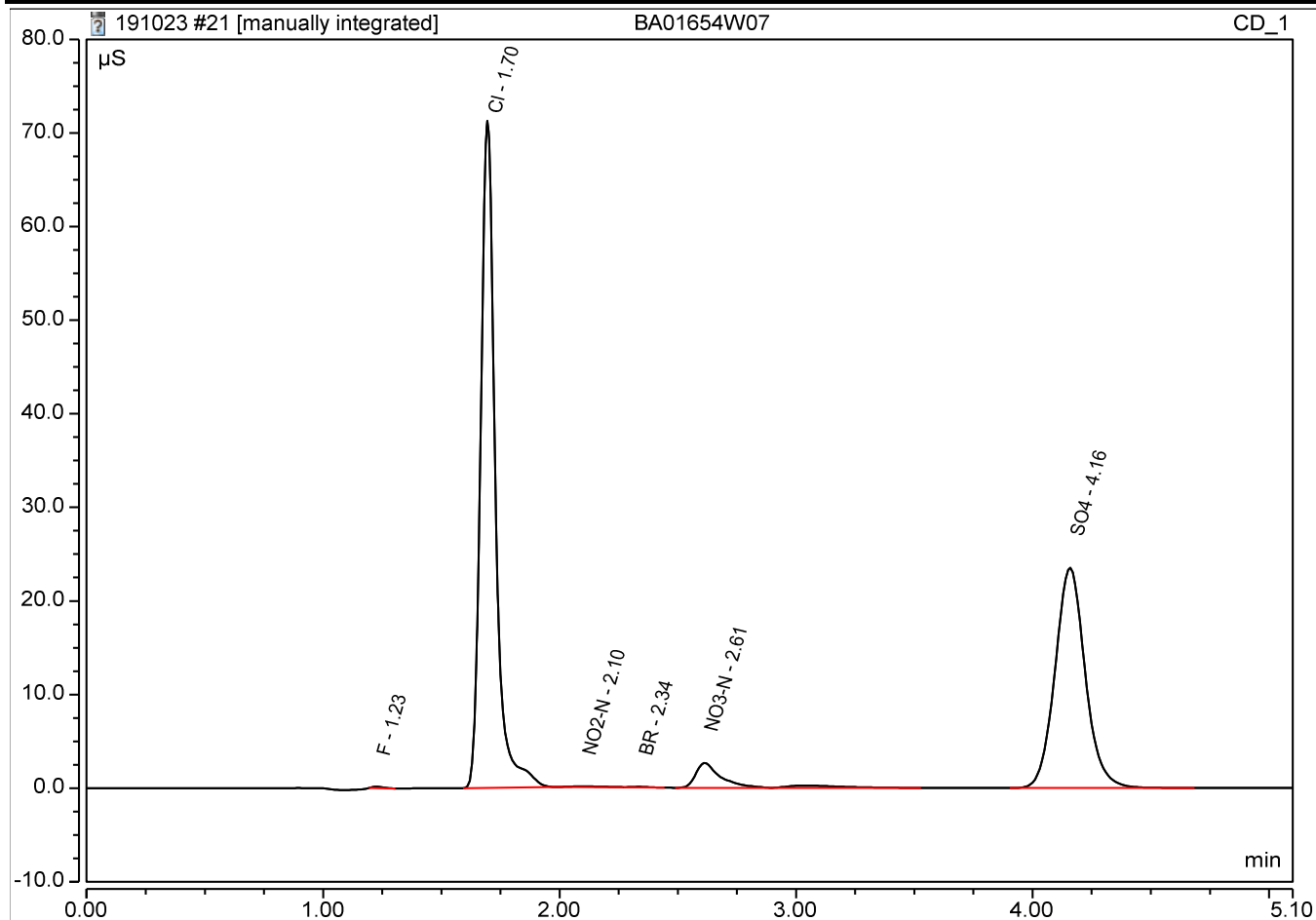
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMb*	0.097	0.869	0.5179
2	1.70	Cl	bMb*	4.016	60.711	38.0364
3	2.10	NO2-N	bMB*	0.010	0.063	0.0647
4	2.34	BR	BMB	0.004	0.045	0.1281
7	4.16	SO4	BMB	1.297	8.536	19.2654



Peak Integration Report

Sample Name:		BA01654W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 20:02			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB	0.008	0.149	0.18		
2	1.70	Cl	BMB*	5.119	71.268	48.44		
3	2.10	NO2-N	bMB*	0.012	0.077	0.08		
4	2.34	BR	BMB	0.005	0.062	0.17		
5	2.61	NO3-N	BMB	0.321	2.669	1.47		
7	4.16	SO4	BMB	3.476	23.549	51.52		

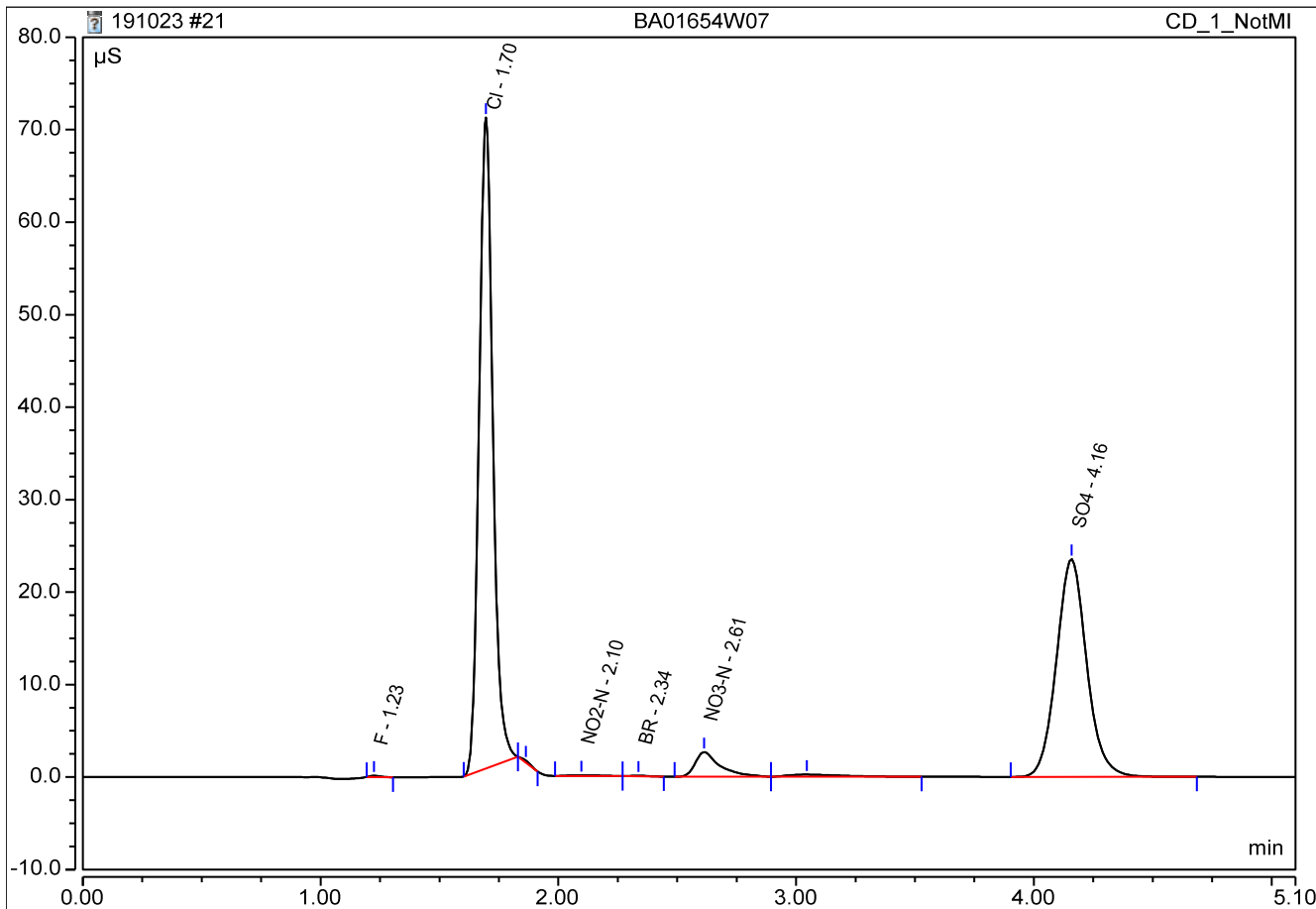


CI MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01654W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:02	Run Time:	5.10

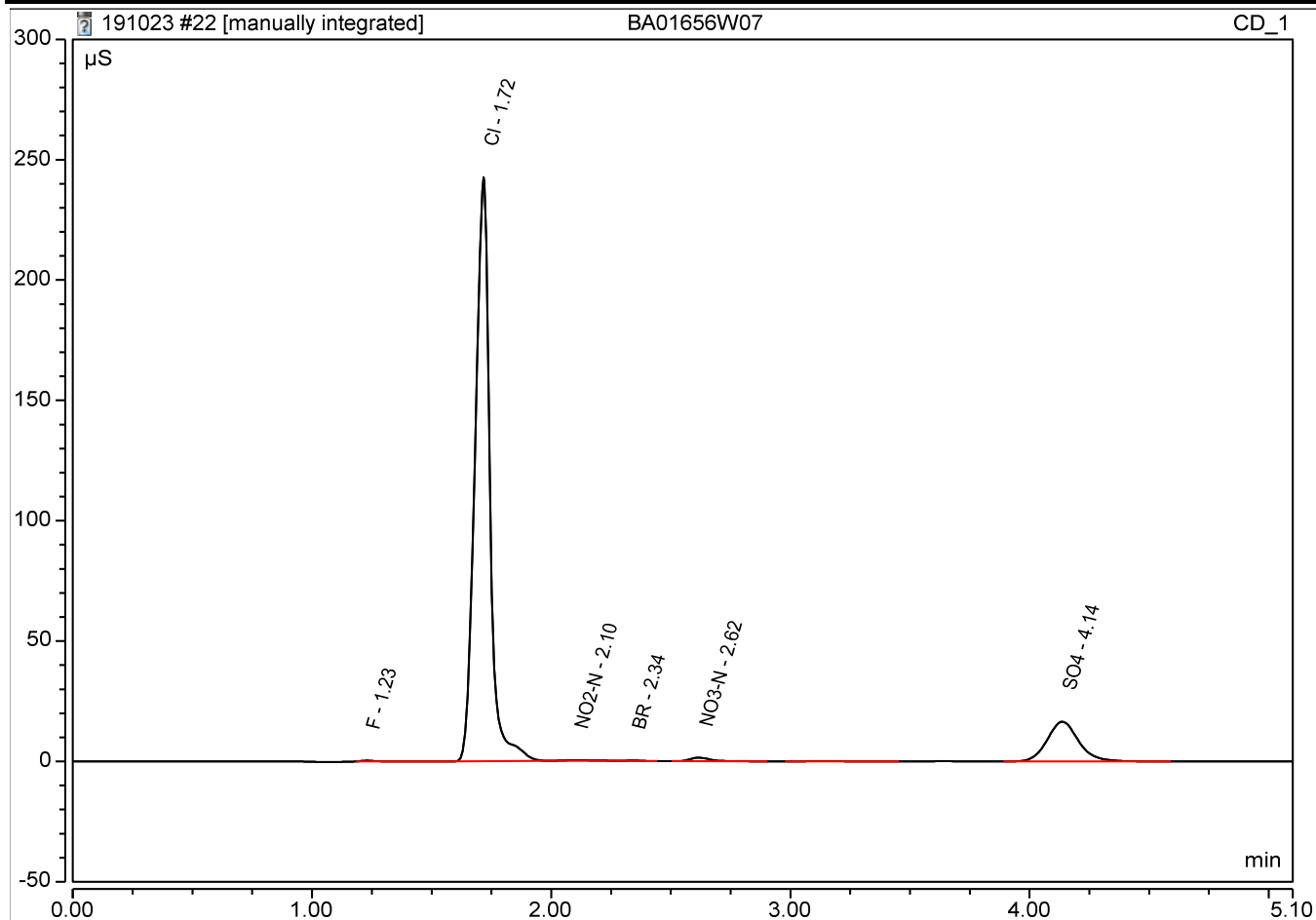
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.008	0.149	-0.2225
2	1.70	Cl	BMB*	4.744	70.381	44.8999
3	2.10	NO2-N	bMB*	0.012	0.077	0.0775
4	2.34	BR	BMB	0.005	0.062	0.1661
5	2.61	NO3-N	BMB	0.321	2.669	1.4676
7	4.16	SO4	BMB	3.476	23.549	51.5166



Peak Integration Report

Sample Name:		BA01656W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 20:10			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB*	0.024	0.357	0.32		
2	1.72	Cl	bMB*	17.409	242.535	164.39		
3	2.10	NO2-N	bMB*	0.034	0.229	0.21		
4	2.34	BR	BMB	0.012	0.157	0.36		
5	2.62	NO3-N	BMB	0.149	1.493	0.69		
7	4.14	SO4	BMB	2.511	16.517	37.23		

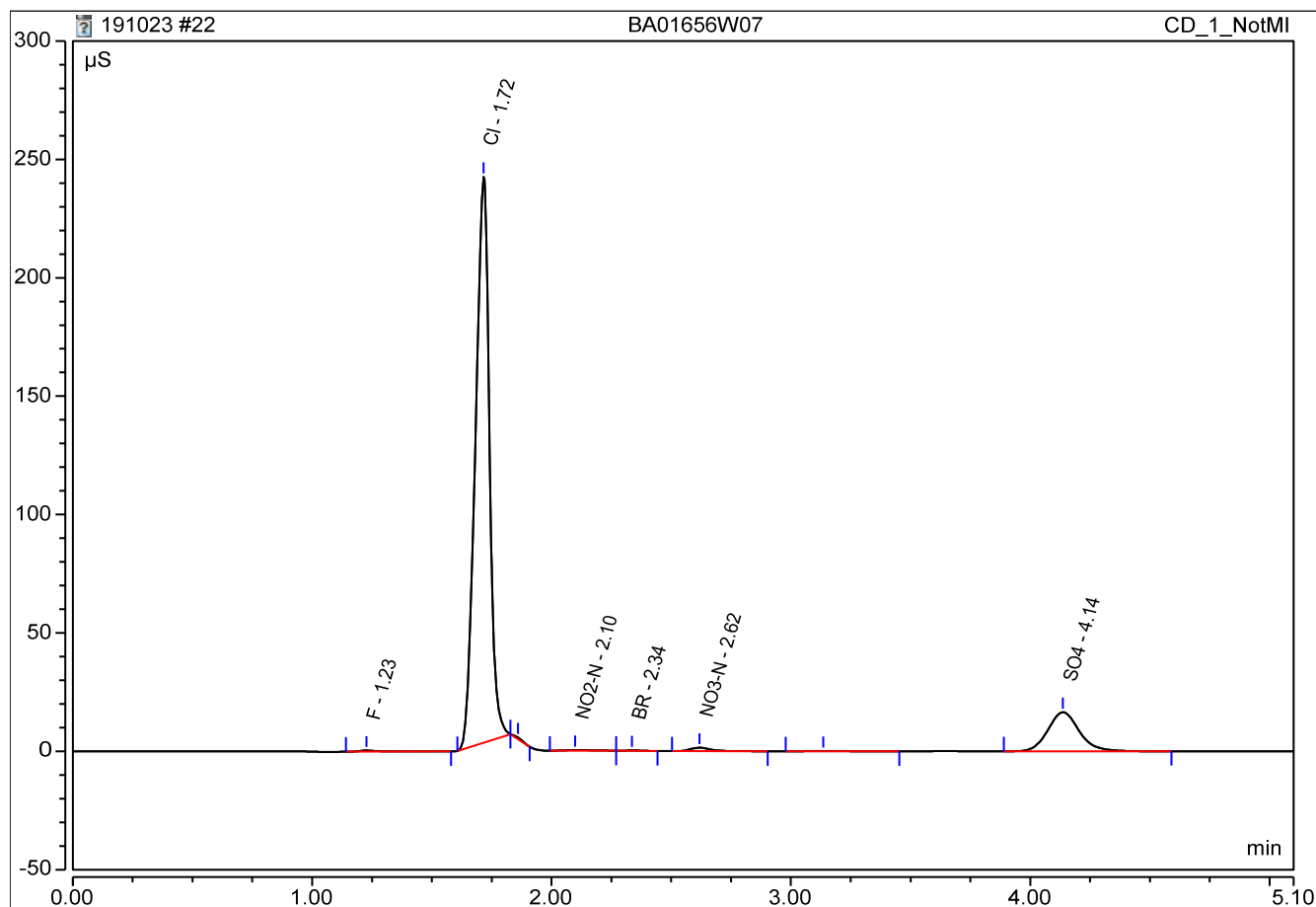


CI MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01656W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:10	Run Time:	5.10

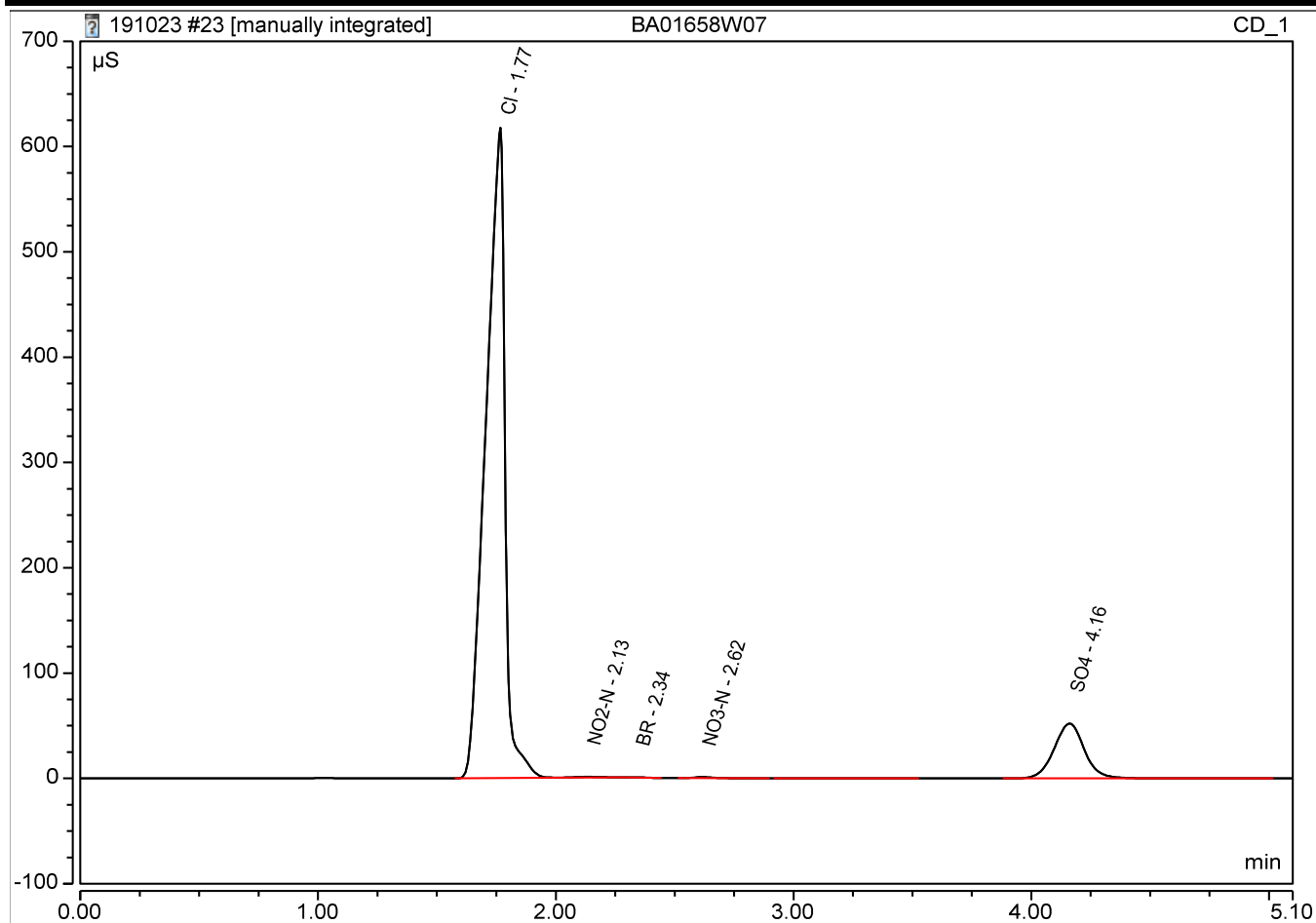
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMb*	0.051	0.467	0.1310
2	1.72	Cl	bMb*	16.188	238.936	152.8647
3	2.10	NO2-N	bMB*	0.034	0.229	0.2078
4	2.34	BR	BMB	0.012	0.157	0.3594
5	2.62	NO3-N	BMB	0.149	1.493	0.6911
7	4.14	SO4	BMB	2.511	16.517	37.2346



Peak Integration Report

Sample Name:		BA01658W07			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 20:17			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.77	Cl	BMB*	57.483	617.417	542.45		
2	2.13	NO2-N	bMB*	0.090	0.643	0.53		
3	2.34	BR	bMB*	0.029	0.410	0.85		
4	2.62	NO3-N	BMB	0.109	1.059	0.51		
6	4.16	SO4	BMB	7.684	52.179	113.80		

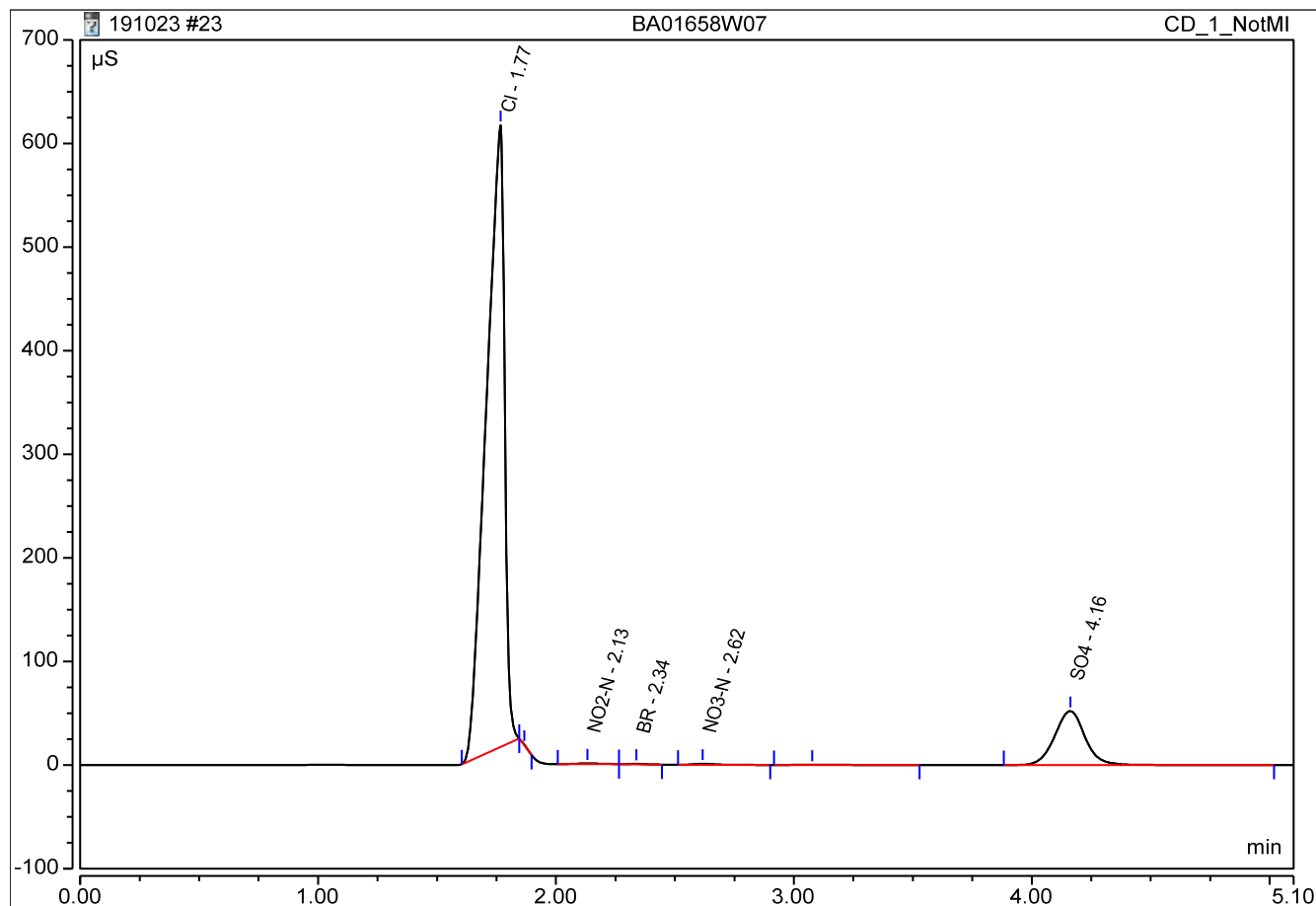


Br MI1; Cl MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01658W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:17	Run Time:	5.10

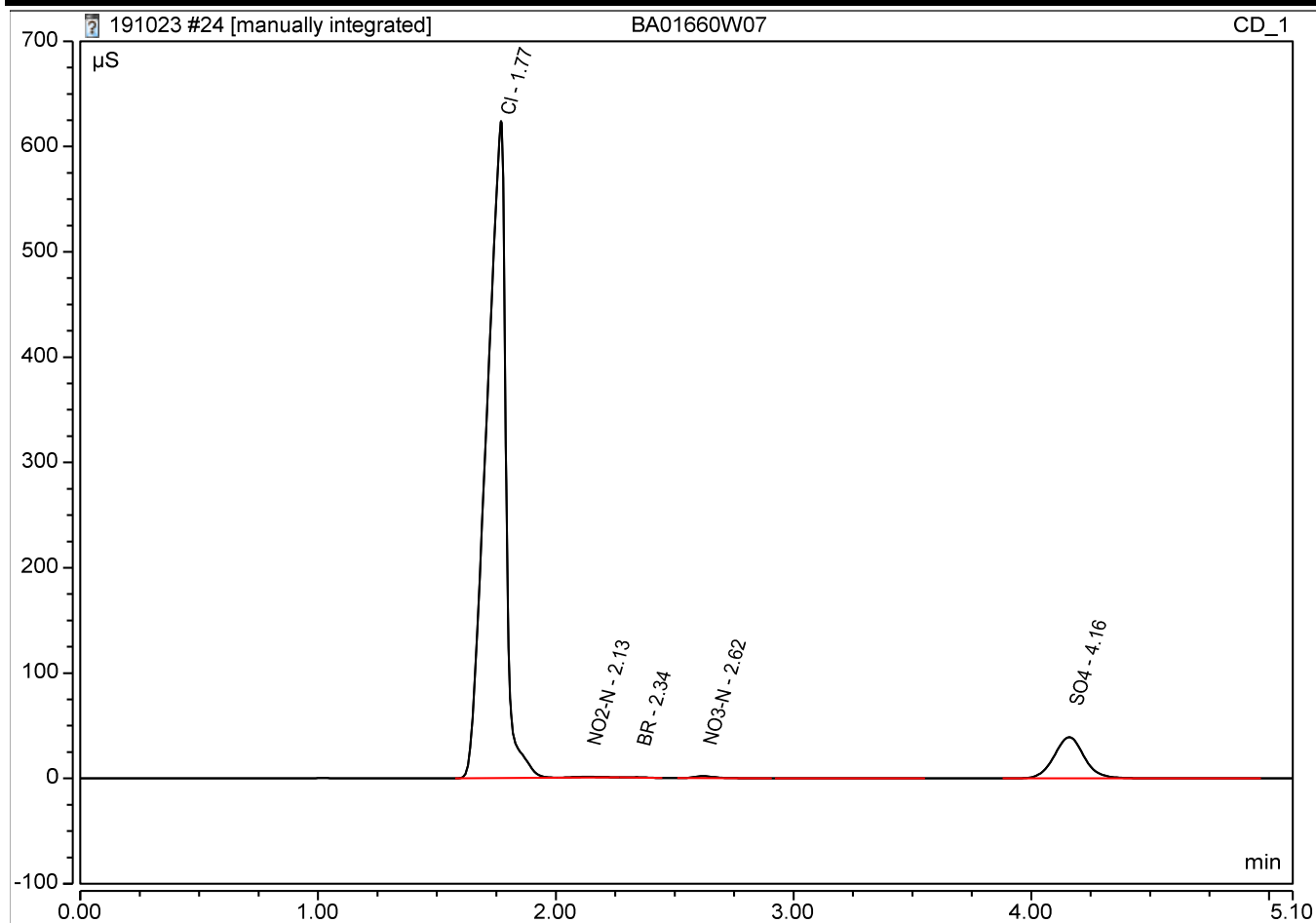
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.77	Cl	BMb*	53.280	600.343	502.7860
2	2.13	NO2-N	bMb*	0.086	0.629	0.5115
3	2.34	BR	bMB*	0.033	0.439	0.9488
4	2.62	NO3-N	BMB	0.109	1.059	0.5109
6	4.16	SO4	BMB	7.684	52.179	113.7997



Peak Integration Report

Sample Name:	BA01660W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:25	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.77	Cl	BMB*	58.343	623.764	550.56		
2	2.13	NO2-N	bMB*	0.092	0.686	0.55		
3	2.34	BR	BMB	0.034	0.443	0.97		
4	2.62	NO3-N	BMB	0.208	2.005	0.96		
6	4.16	SO4	BMB	5.774	39.199	85.54		

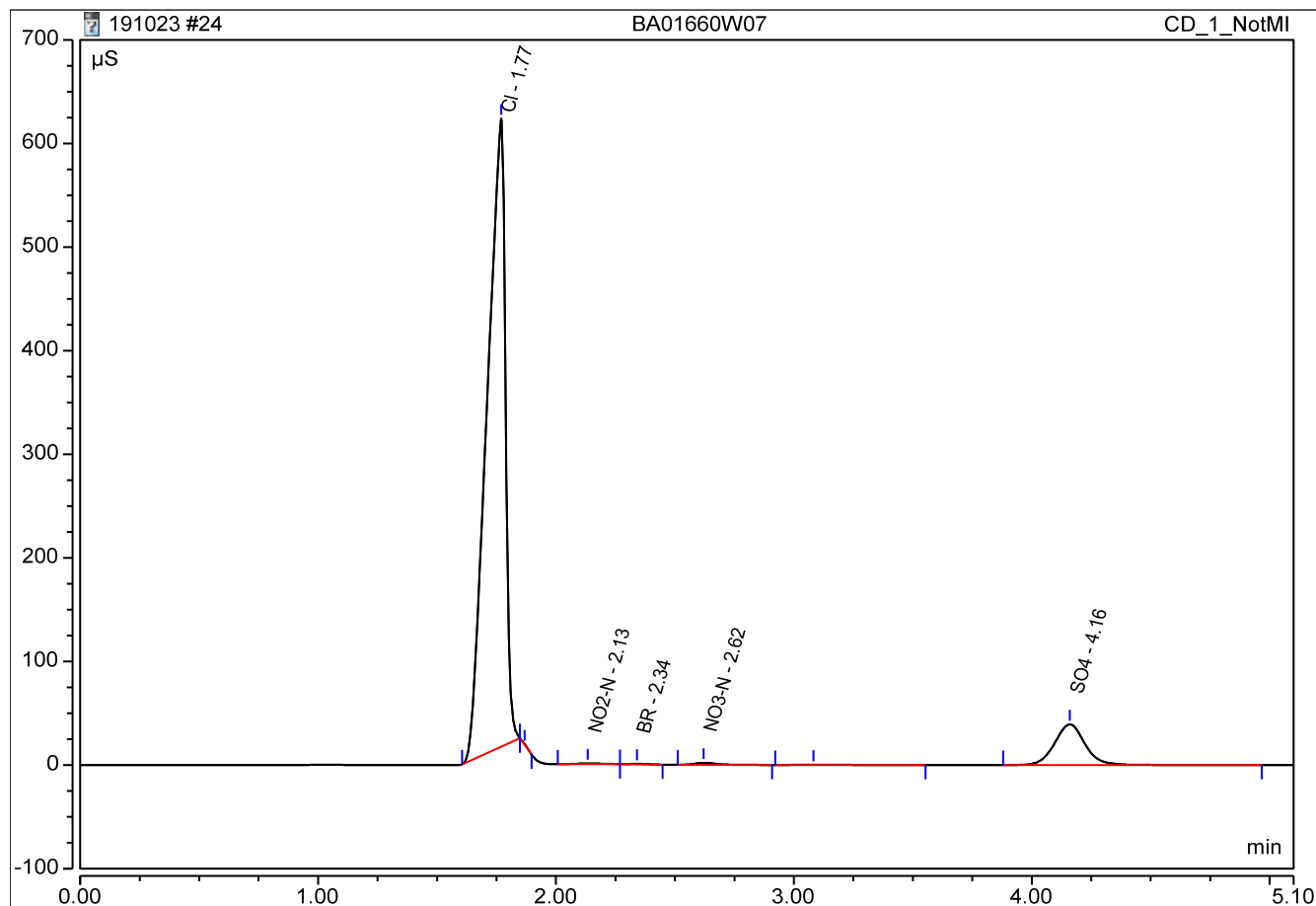


Cl MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01660W07	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:25	Run Time:	5.10

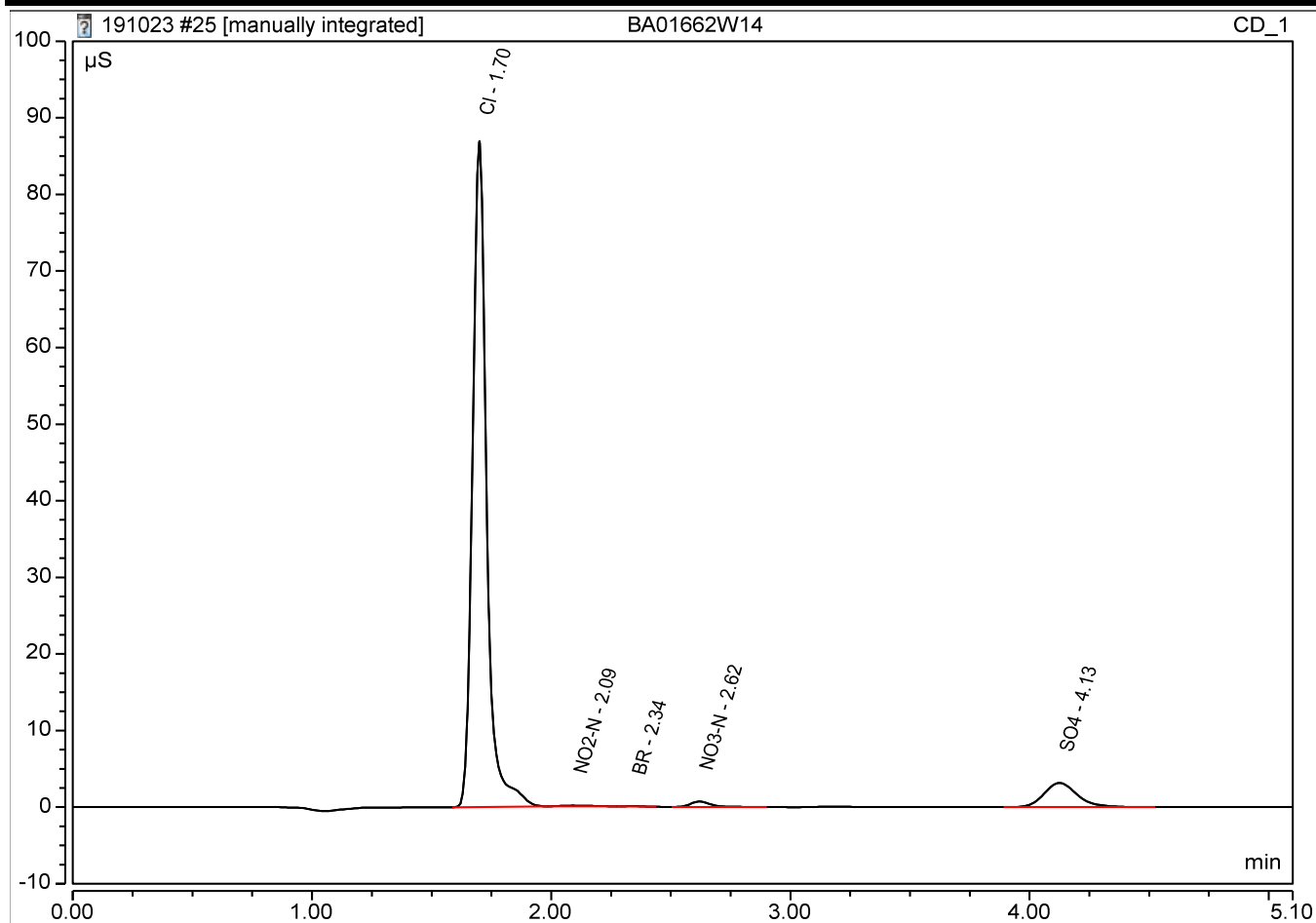
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.77	Cl	BMB*	54.102	606.371	510.5421
2	2.13	NO2-N	bMB*	0.092	0.686	0.5458
3	2.34	BR	BMB	0.034	0.443	0.9670
4	2.62	NO3-N	BMB	0.208	2.005	0.9591
6	4.16	SO4	BMB	5.774	39.199	85.5357



Peak Integration Report

Sample Name:	BA01662W14	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:32	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	5.918	86.938	55.98		
2	2.09	NO2-N	bMB*	0.015	0.096	0.09		
3	2.34	BR	BMB	0.004	0.061	0.15		
4	2.62	NO3-N	BMB	0.070	0.711	0.34		
5	4.13	SO4	BMB	0.506	3.164	7.55		

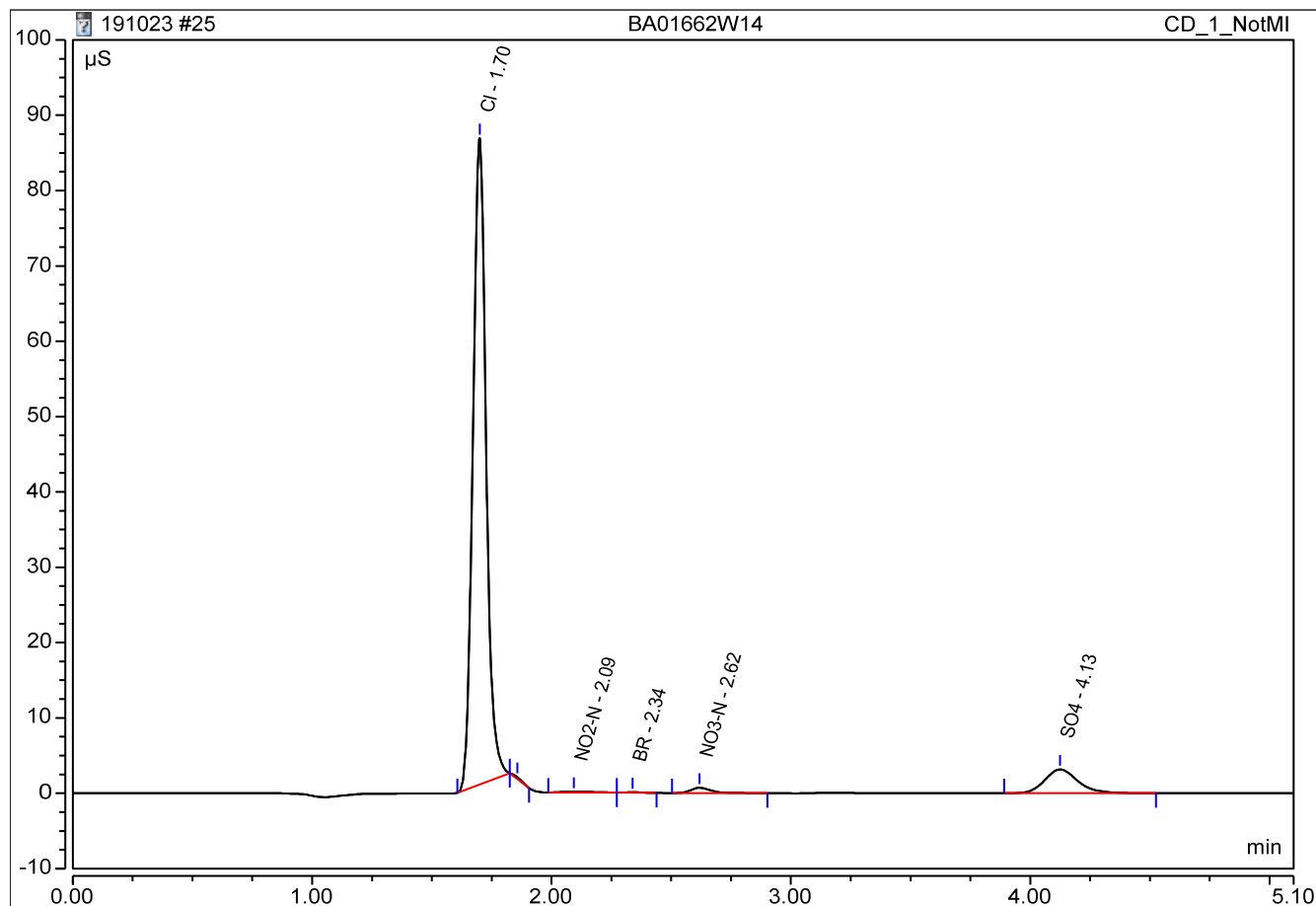


Cl MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01662W14	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:32	Run Time:	5.10

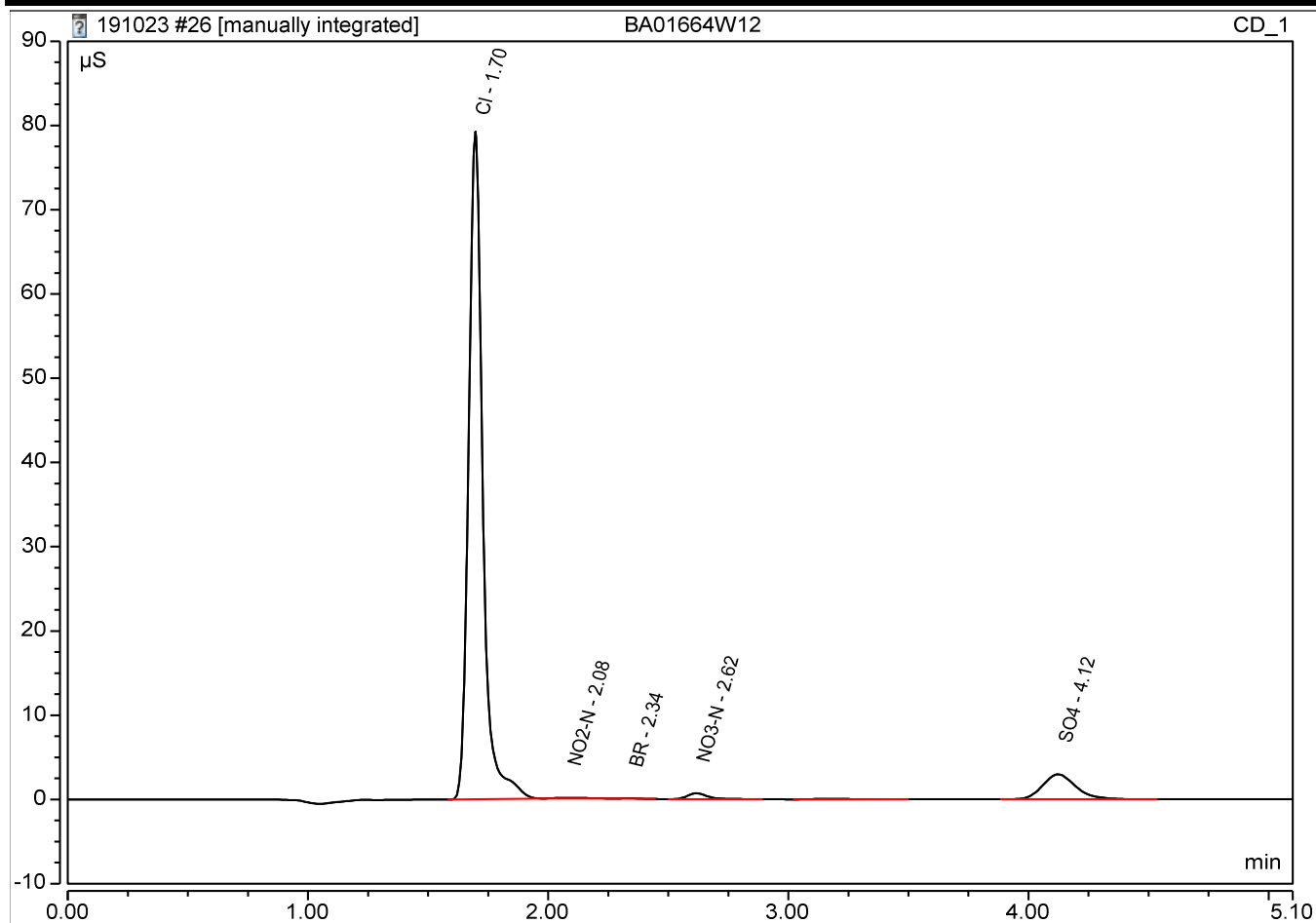
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.70	Cl	BMB*	5.473	85.794	51.7780
2	2.09	NO2-N	bMB*	0.015	0.096	0.0926
3	2.34	BR	BMB	0.004	0.061	0.1548
4	2.62	NO3-N	BMB	0.070	0.711	0.3370
5	4.13	SO4	BMB	0.506	3.164	7.5536



Peak Integration Report

Sample Name:	BA01664W12	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:40	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S} \cdot \text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S} \cdot \text{min}$	μS	mg/L	mg/L	
2	1.70	Cl	bMb*	5.390	79.267	51.00		
3	2.08	NO2-N	bMB*	0.013	0.080	0.08		
4	2.34	BR	BMB	0.004	0.056	0.15		
5	2.62	NO3-N	BMB	0.070	0.703	0.33		
7	4.12	SO4	BMB	0.475	2.961	7.09		

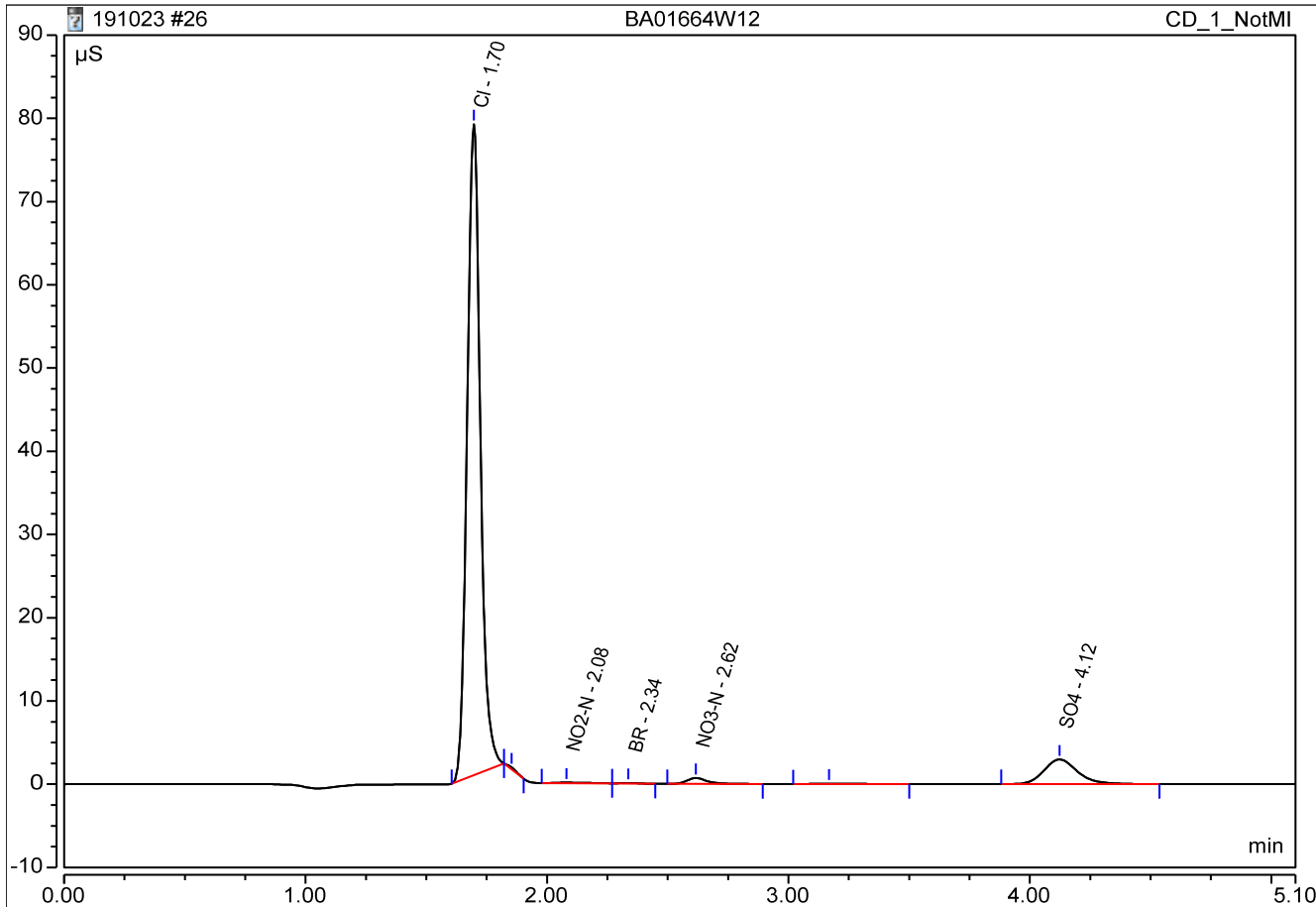


Cl MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	BA01664W12	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 20:40	Run Time:	5.10

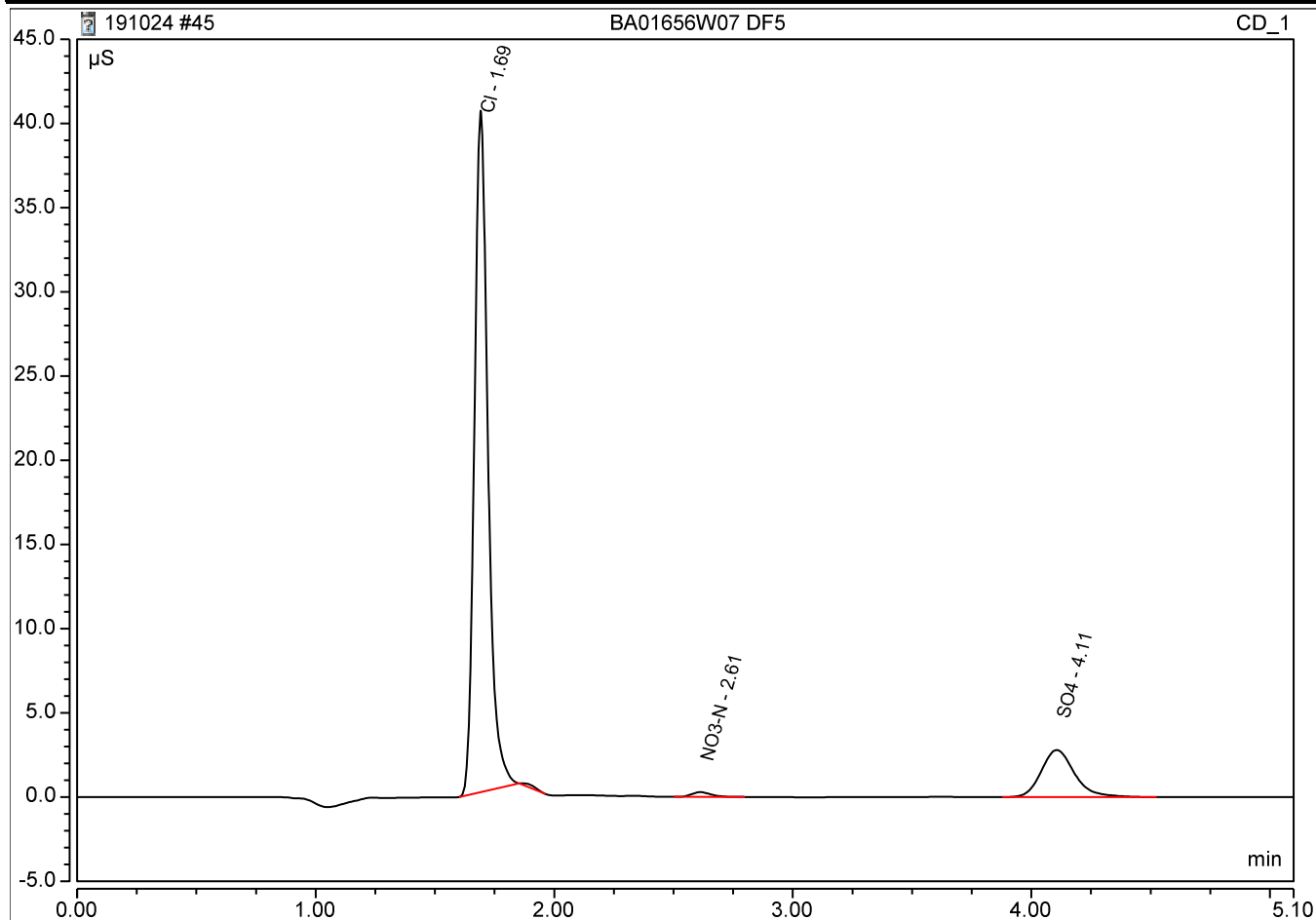
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
2	1.70	Cl	bMb*	4.978	78.213	47.1061
3	2.08	NO2-N	bMB*	0.013	0.080	0.0824
4	2.34	BR	BMB	0.004	0.056	0.1469
5	2.62	NO3-N	BMB	0.070	0.703	0.3342
7	4.12	SO4	BMB	0.475	2.961	7.0938



Peak Integration Report

Sample Name:		BA01656W07 DF5			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		5.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 09:14			Run Time:		5.10	

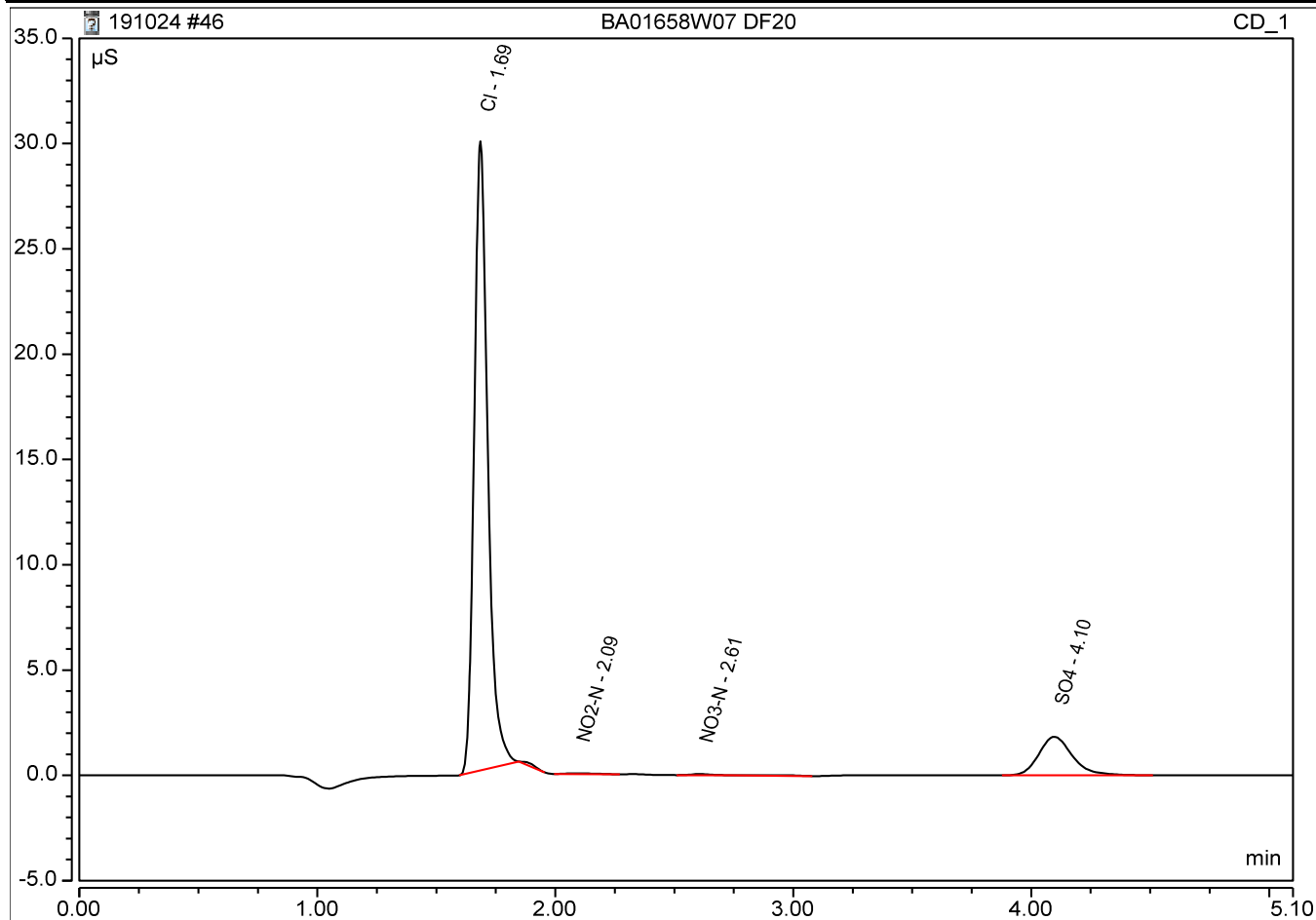
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	2.668	40.457	126.59		
3	2.61	NO3-N	BMB	0.026	0.277	0.68		
4	4.11	SO4	BMB	0.452	2.794	33.75		



Peak Integration Report

Sample Name:	BA01658W07 DF20	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	20.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 09:21	Run Time:	5.10

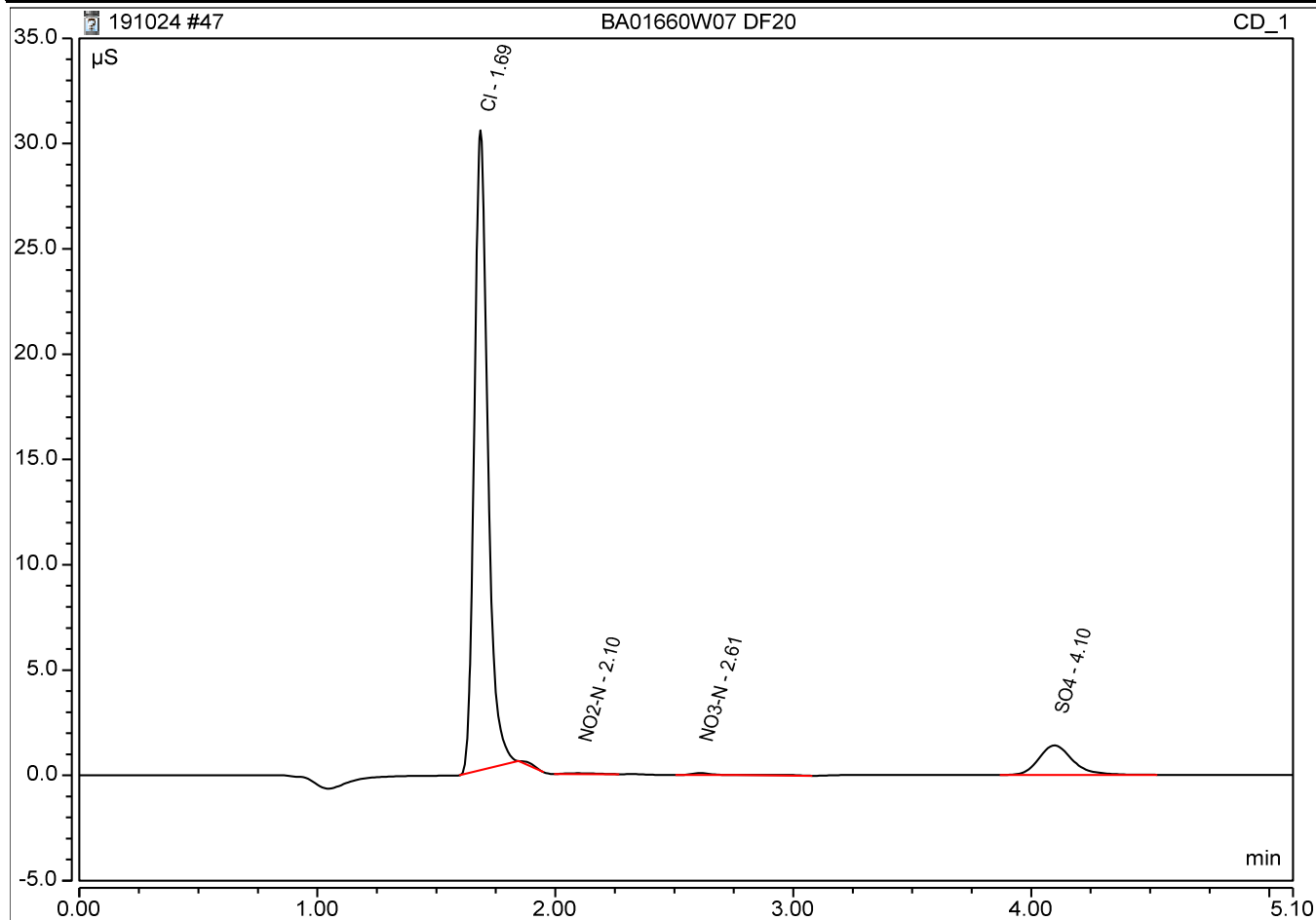
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	1.978	29.875	376.19		
3	2.09	NO ₂ -N	BMB	0.005	0.037	0.77		
4	2.61	NO ₃ -N	BMB	0.005	0.056	0.83		
6	4.10	SO ₄	BMB	0.299	1.831	89.84		



Peak Integration Report

Sample Name:		BA01660W07 DF20			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		20.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 09:29			Run Time:		5.10	

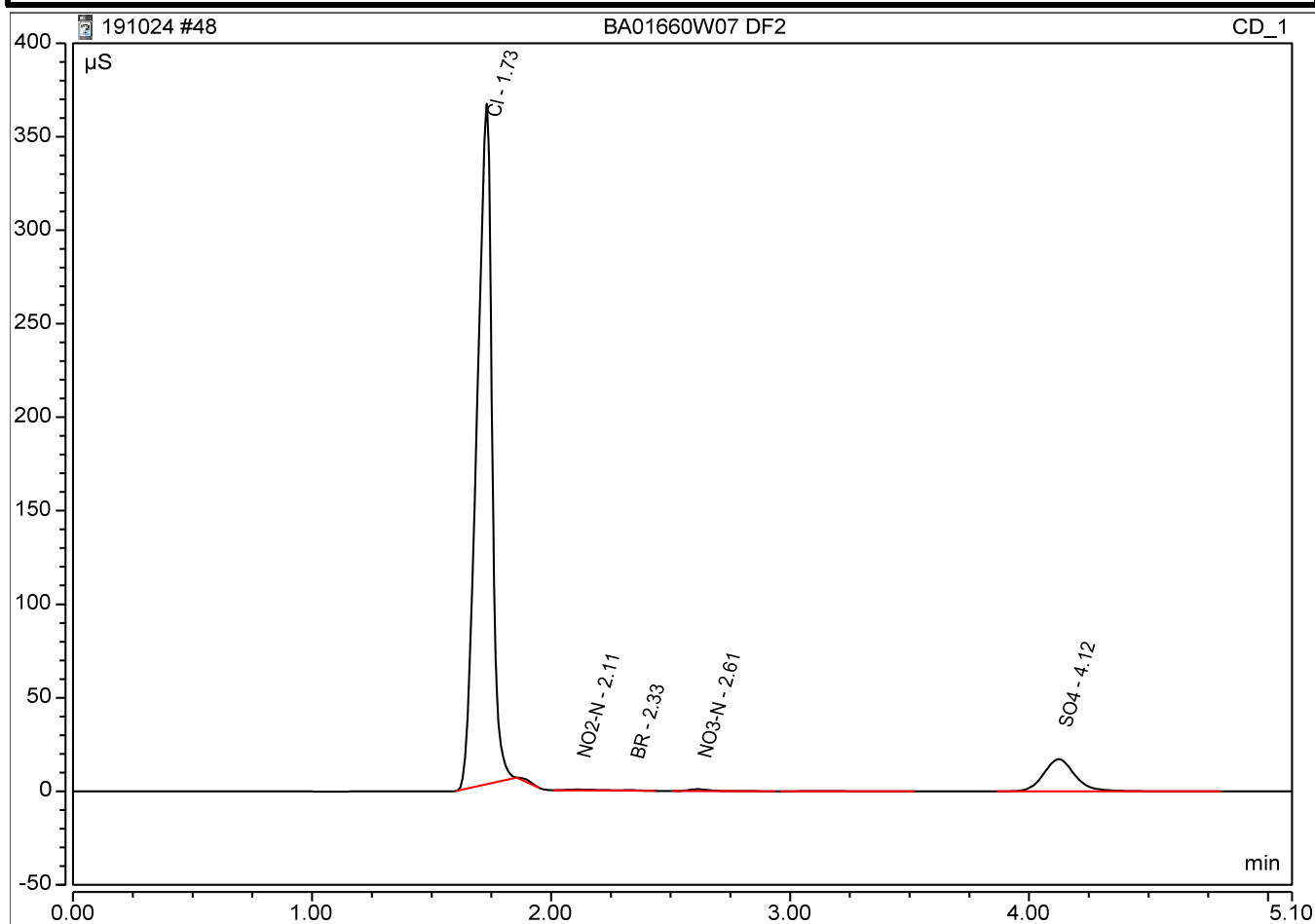
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.69	Cl	BMB	2.003	30.386	380.86		
3	2.10	NO2-N	BMB	0.006	0.041	0.86		
4	2.61	NO3-N	BMB	0.009	0.096	1.18		
6	4.10	SO4	BMB	0.230	1.404	69.49		



Peak Integration Report

Sample Name:		BA01660W07 DF2			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		2.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 09:36			Run Time:		5.10	

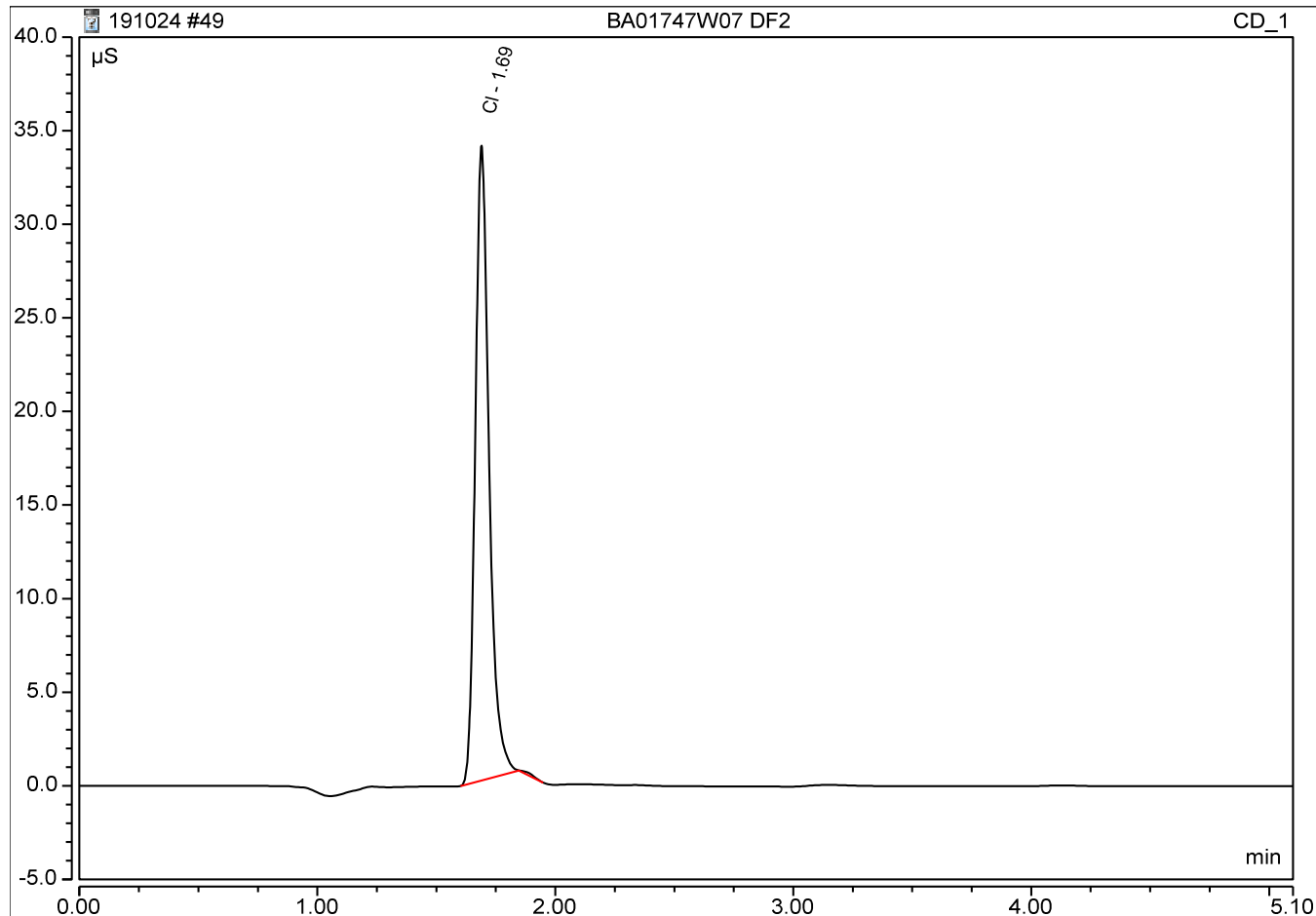
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.73	Cl	BMB	26.534	363.756	500.95		
3	2.11	NO2-N	BMB	0.051	0.371	0.61		
4	2.33	BR	BMB	0.016	0.219	0.97		
5	2.61	NO3-N	BMB	0.096	0.977	0.91		
7	4.12	SO4	BMB	2.601	17.139	77.14		



Peak Integration Report

Sample Name:	BA01747W07 DF2	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 09:44	Run Time:	5.10

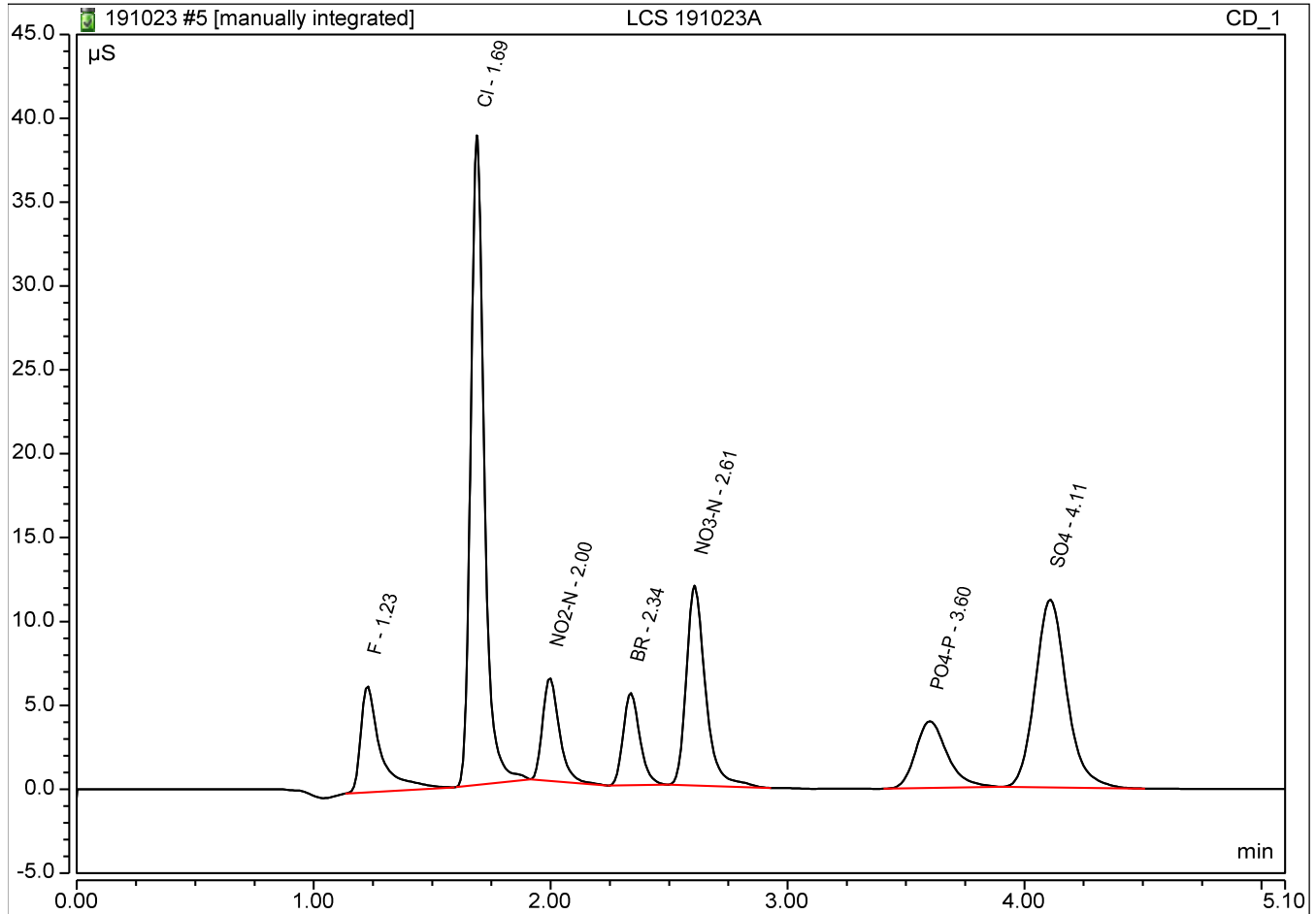
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
1	1.69	Cl	BMB	2.279	33.919	43.29		



Peak Integration Report

Sample Name:		LCS 191023A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		23-Oct-2019 / 18:02			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB	0.615	6.357	5.15	5	103.0%
2	1.69	Cl	BMB*	2.561	38.723	24.31	25	97.2%
3	2.00	NO2-N	bMB*	0.506	6.142	2.96	3.04	97.4%
4	2.34	BR	BMB*	0.449	5.515	12.54	12.5	100.3%
5	2.61	NO3-N	BMB	1.126	11.911	5.10	5	102.0%
6	3.60	PO4-P	BMB	0.617	3.985	9.32	10	93.2%
7	4.11	SO4	BMB	1.728	11.204	25.64	25	102.6%



Cl MI4; Br MI5 BW 191024

Algorithm Check

y = Peak Area

x = mg/L S04

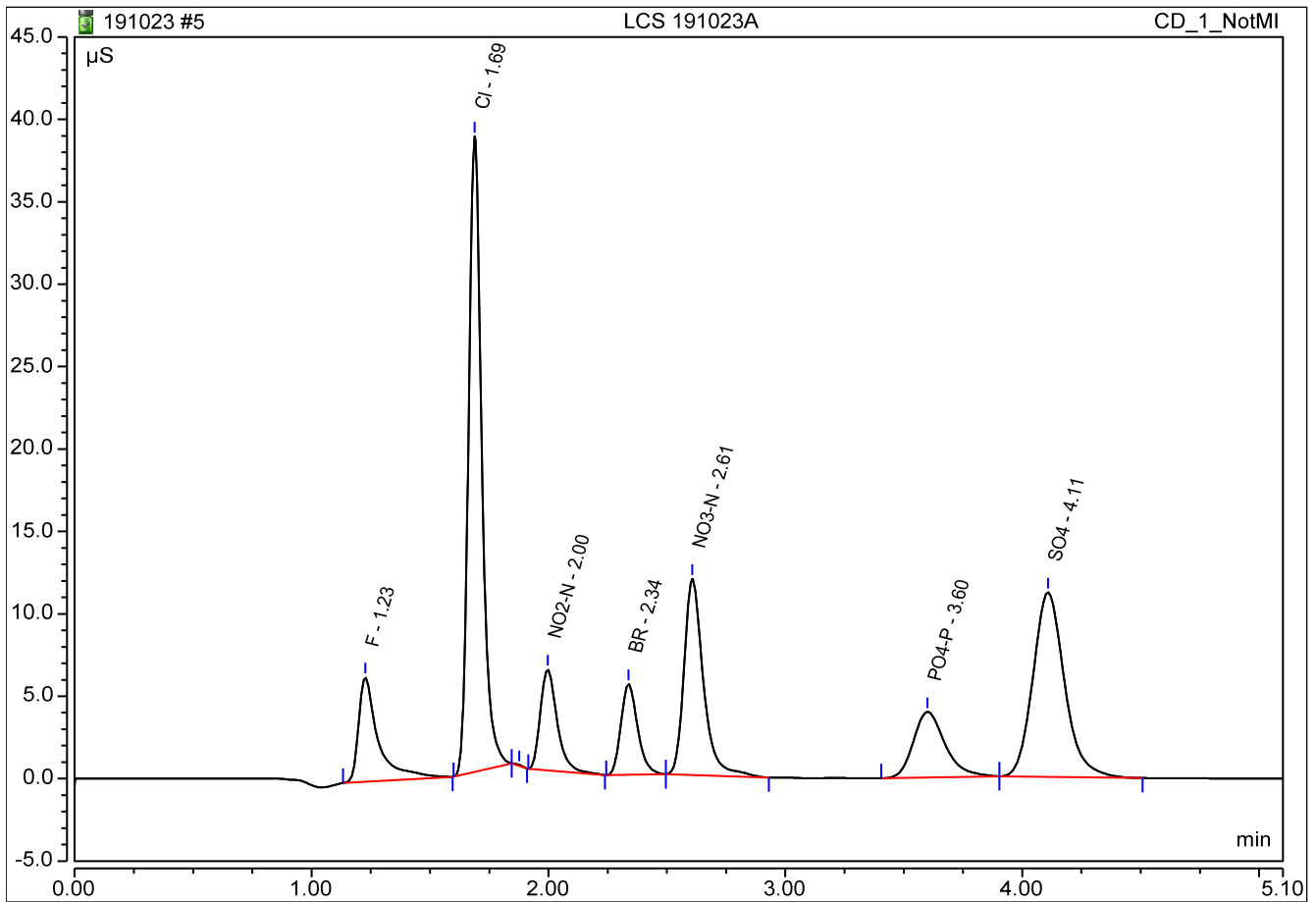
$$y = 0.0676 \quad x + \quad -0.0044$$

$$y = 1.7280 \quad \text{therefor } x =$$

Not Manipulated Peak Integration Report

Sample Name:	LCS 191023A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 18:02	Run Time:	5.10

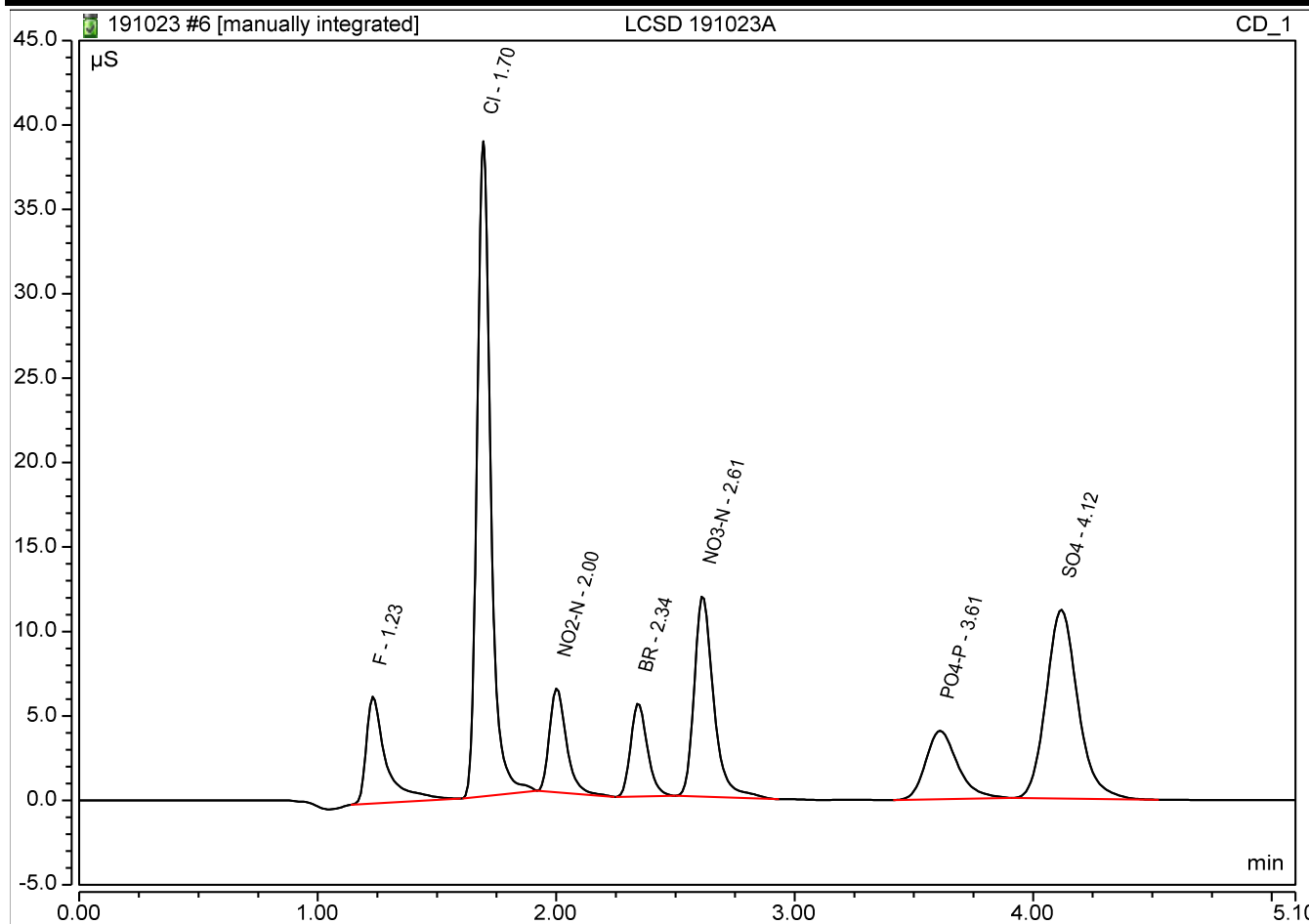
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.615	6.357	4.8341
2	1.69	Cl	BMB*	2.490	38.564	23.6377
3	2.00	NO2-N	bMB*	0.506	6.142	2.9616
4	2.34	BR	BMB*	0.449	5.515	12.5437
5	2.61	NO3-N	BMB	1.126	11.911	5.0989
6	3.60	PO4-P	BMB	0.617	3.985	9.3171
7	4.11	SO4	BMB	1.728	11.204	25.6428



Peak Integration Report

Sample Name:	LCSD 191023A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 18:10	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB	0.612	6.345	5.12	5	102.5%
2	1.70	Cl	BMB*	2.566	38.791	24.36	25	97.4%
3	2.00	NO2-N	bMB*	0.509	6.160	2.98	3.04	97.9%
4	2.34	BR	BMB	0.449	5.521	12.54	12.5	100.4%
5	2.61	NO3-N	BMB	1.125	11.915	5.10	5	101.9%
6	3.61	PO4-P	BMB	0.628	4.052	9.46	10	94.6%
7	4.12	SO4	BMB	1.726	11.187	25.61	25	102.4%

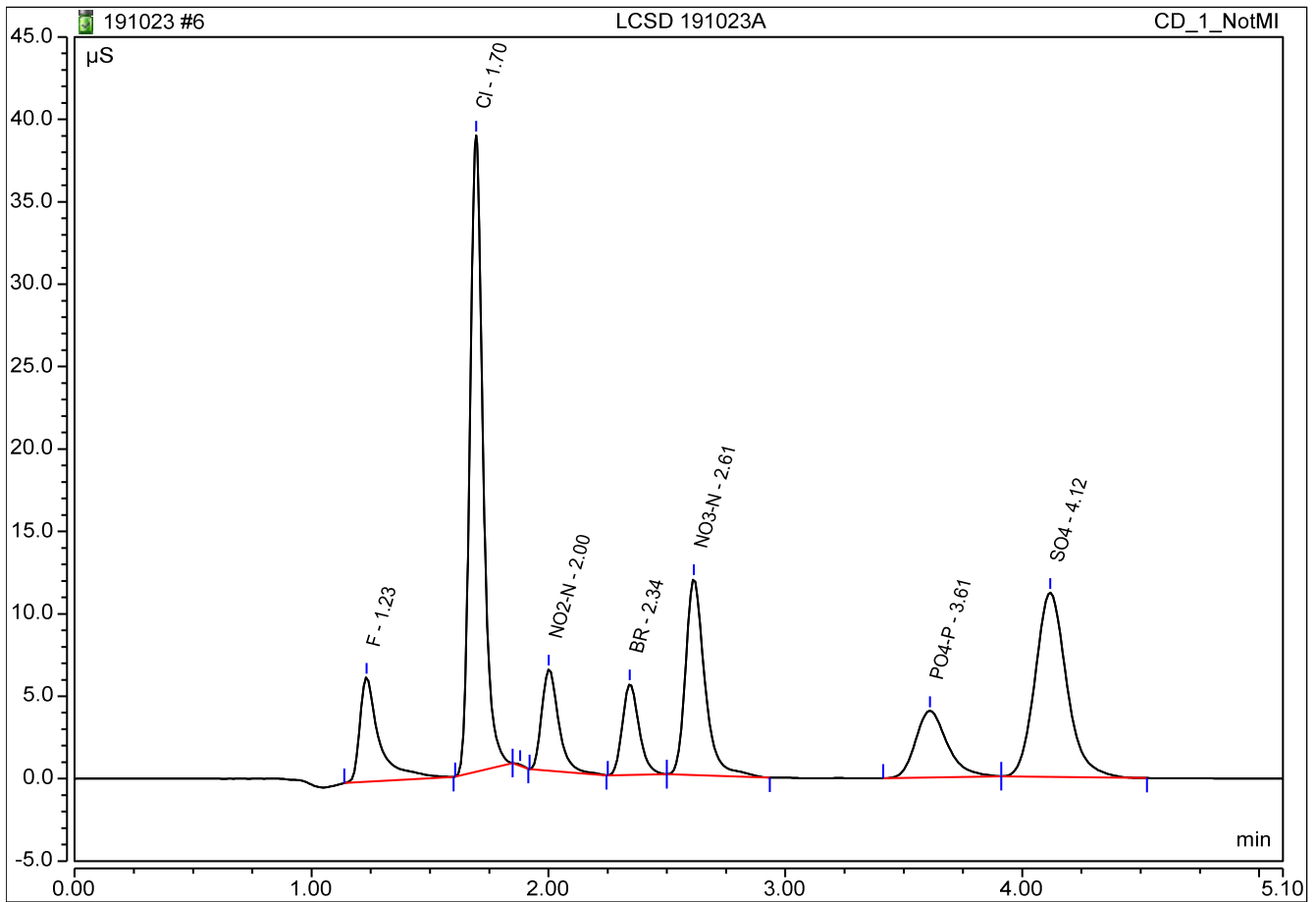


CI MI4 BW 191024

Not Manipulated Peak Integration Report

Sample Name:	LCSD 191023A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	23-Oct-2019 / 18:10	Run Time:	5.10

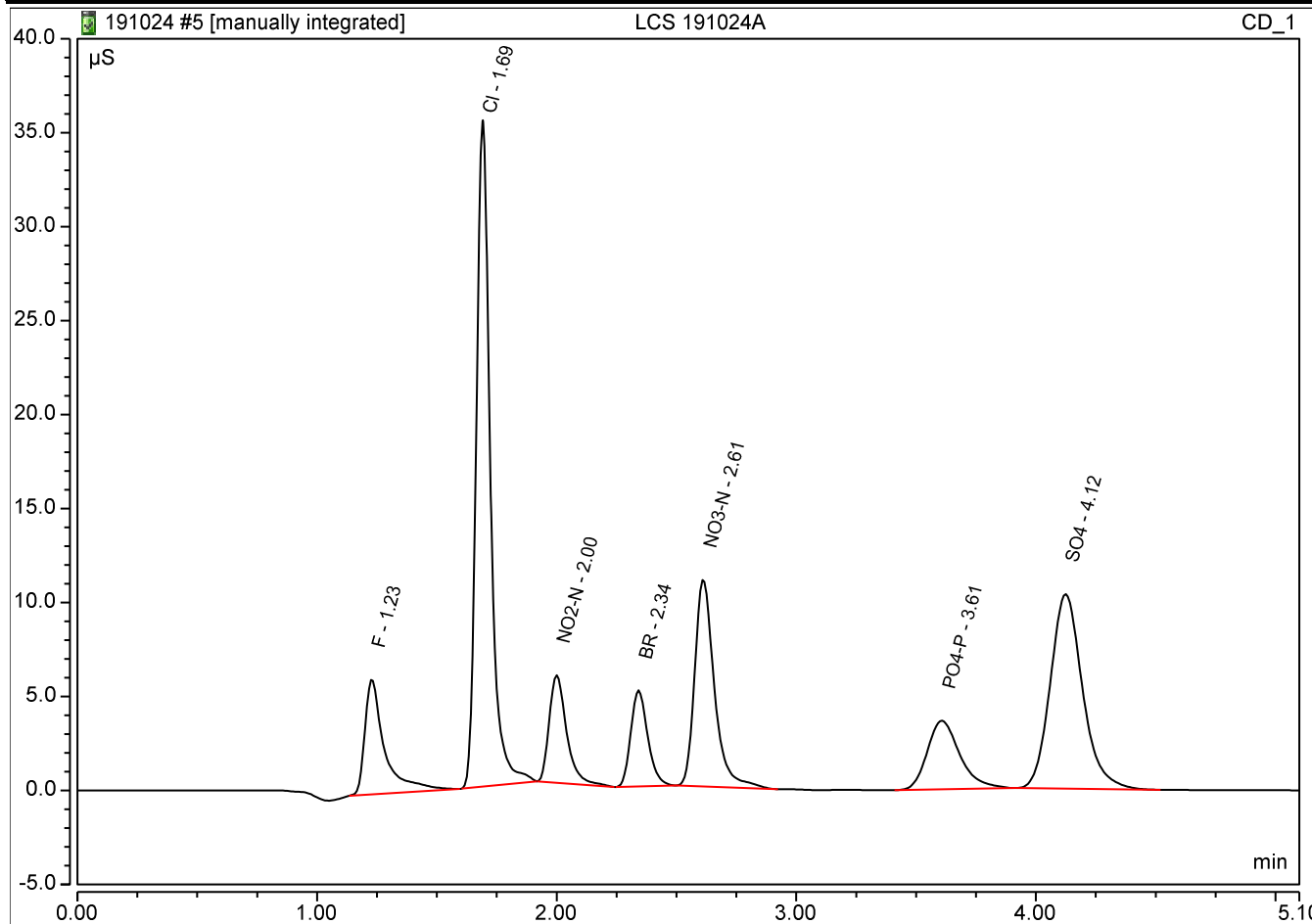
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.612	6.345	4.8064
2	1.70	Cl	BMB*	2.489	38.617	23.6286
3	2.00	NO ₂ -N	bMB*	0.509	6.160	2.9776
4	2.34	BR	BMB	0.449	5.521	12.5439
5	2.61	NO ₃ -N	BMB	1.125	11.915	5.0963
6	3.61	PO ₄ -P	BMB	0.628	4.052	9.4646
7	4.12	SO ₄	BMB	1.726	11.187	25.6110



Peak Integration Report

Sample Name:	LCS 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:15	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.586	6.132	4.91	5	98.3%
2	1.69	Cl	BMB*	2.394	35.462	22.73	25	90.9%
3	2.00	NO2-N	BMB	0.483	5.721	2.83	3.04	93.0%
4	2.34	BR	BMB	0.419	5.107	11.70	12.5	93.6%
5	2.61	NO3-N	BMB	1.049	11.022	4.75	5	95.1%
6	3.61	PO4-P	BMB	0.575	3.658	8.75	10	87.5%
7	4.12	SO4	BMB	1.617	10.352	23.99	25	96.0%



CI MI4 BW 191025

Algorithm Check

y = Peak Area

x = mg/L S04

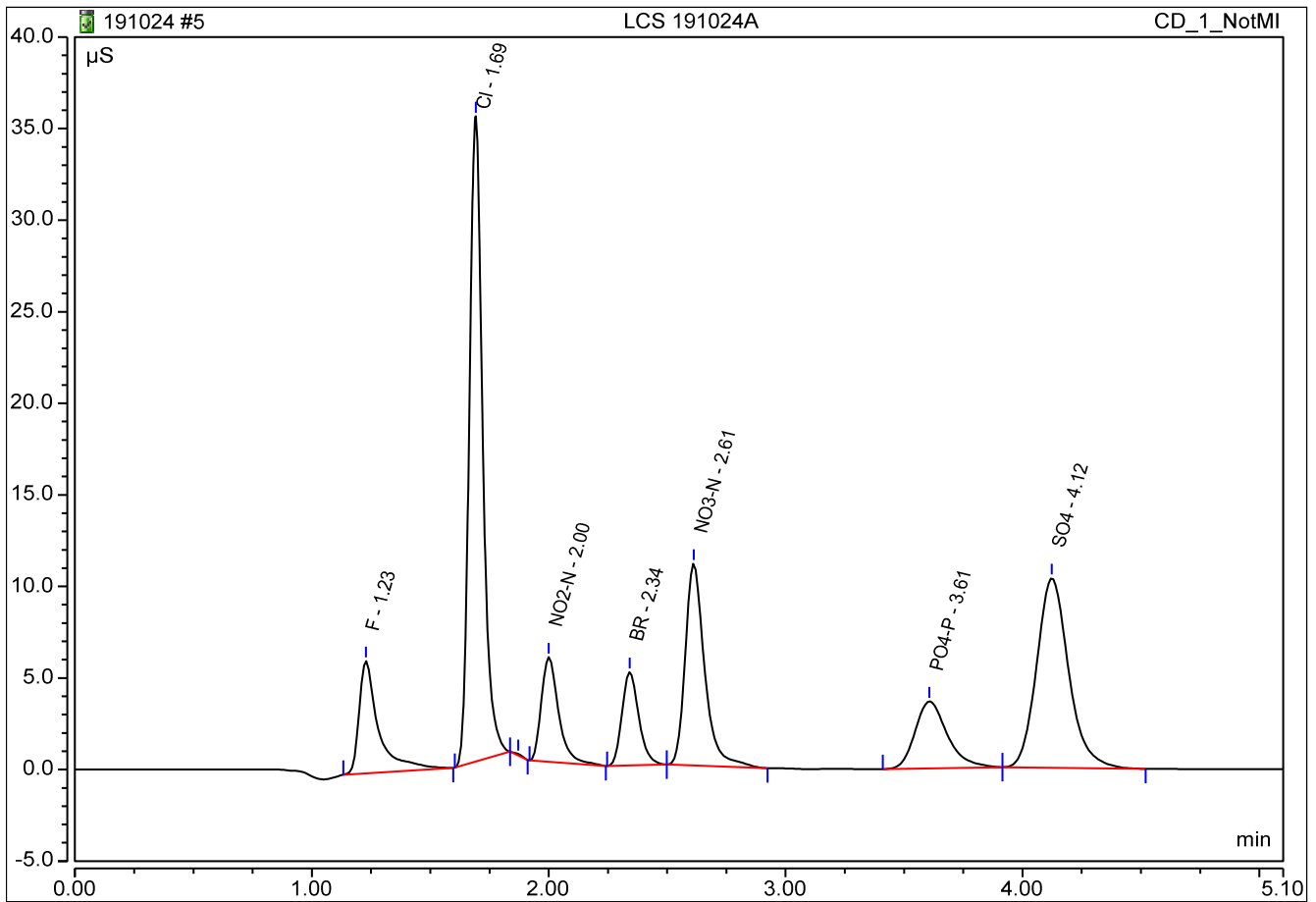
$$y = 0.0676 \quad x + \quad -0.0044$$

$$y = 1.6166 \quad \text{therefor } x =$$

Not Manipulated Peak Integration Report

Sample Name:	LCS 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:15	Run Time:	5.10

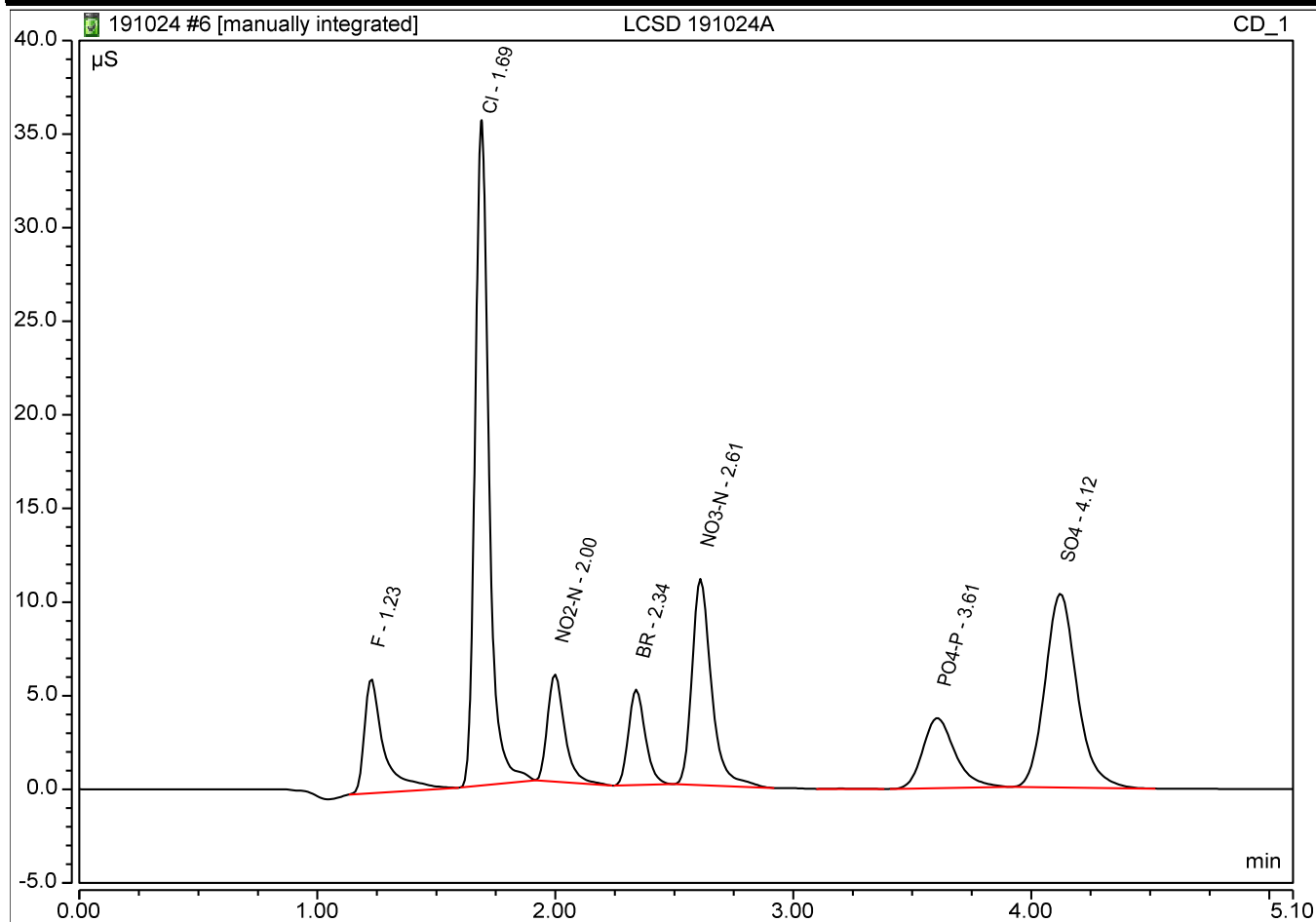
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.586	6.132	4.5933
2	1.69	Cl	BMB*	2.300	35.243	21.8466
3	2.00	NO ₂ -N	BMB	0.483	5.721	2.8271
4	2.34	BR	BMB	0.419	5.107	11.7036
5	2.61	NO ₃ -N	BMB	1.049	11.022	4.7527
6	3.61	PO ₄ -P	BMB	0.575	3.658	8.7504
7	4.12	SO ₄	BMB	1.617	10.352	23.9942



Peak Integration Report

Sample Name:		LCSD 191024A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 18:22			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.583	6.117	4.89	5	97.9%
2	1.69	Cl	BMB*	2.397	35.531	22.76	25	91.0%
3	2.00	NO2-N	bMB*	0.484	5.730	2.83	3.04	93.1%
4	2.34	BR	BMB	0.419	5.111	11.71	12.5	93.6%
5	2.61	NO3-N	BMB	1.049	11.028	4.75	5	95.1%
7	3.61	PO4-P	BMB	0.588	3.739	8.92	10	89.2%
8	4.12	SO4	BMB	1.616	10.352	23.98	25	95.9%

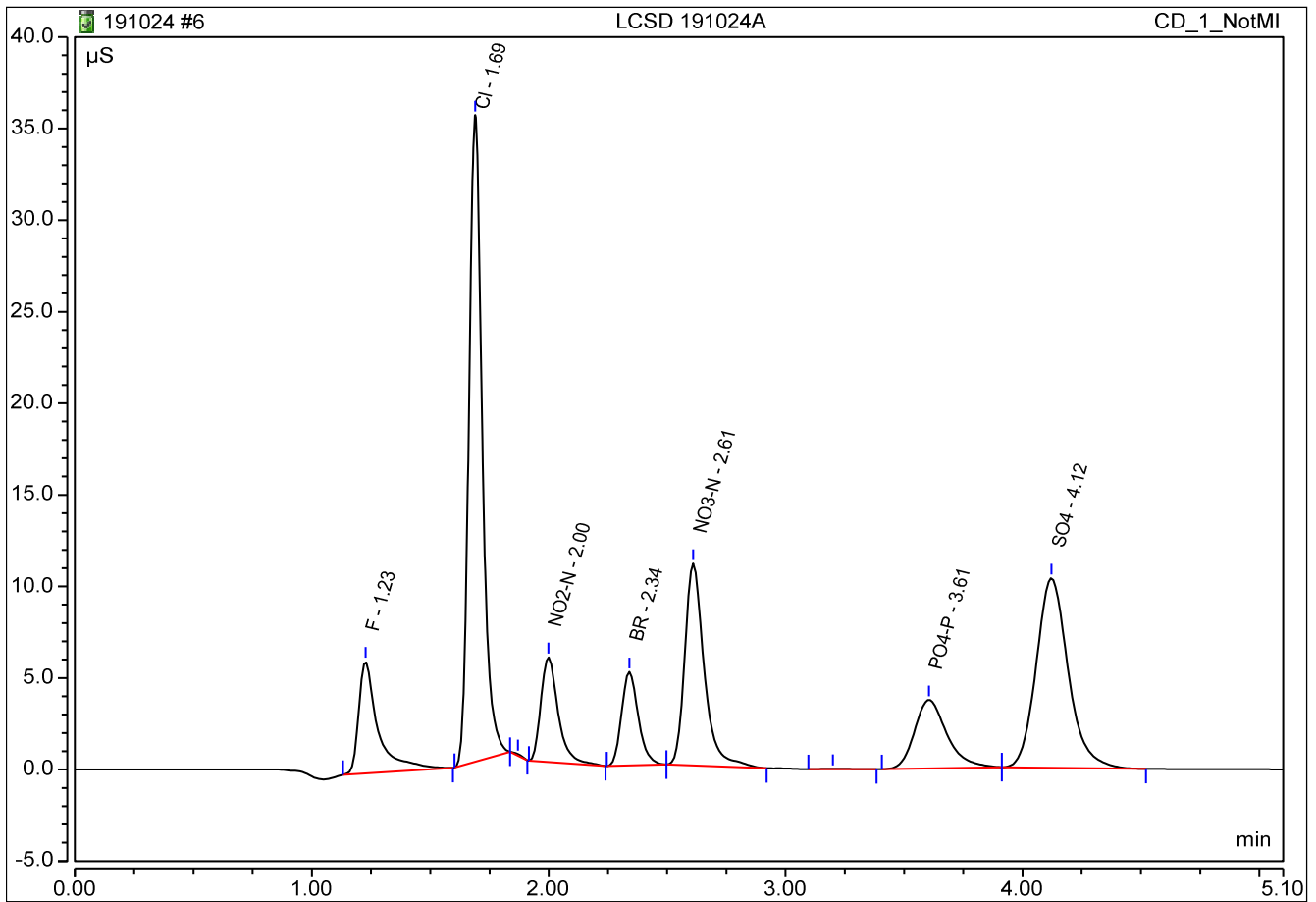


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	LCSD 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:22	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.583	6.117	4.5725
2	1.69	Cl	BMB*	2.302	35.312	21.8667
3	2.00	NO ₂ -N	bMB*	0.484	5.730	2.8295
4	2.34	BR	BMB	0.419	5.111	11.7056
5	2.61	NO ₃ -N	BMB	1.049	11.028	4.7533
7	3.61	PO ₄ -P	BMB	0.588	3.739	8.9202
8	4.12	SO ₄	BMB	1.616	10.352	23.9833

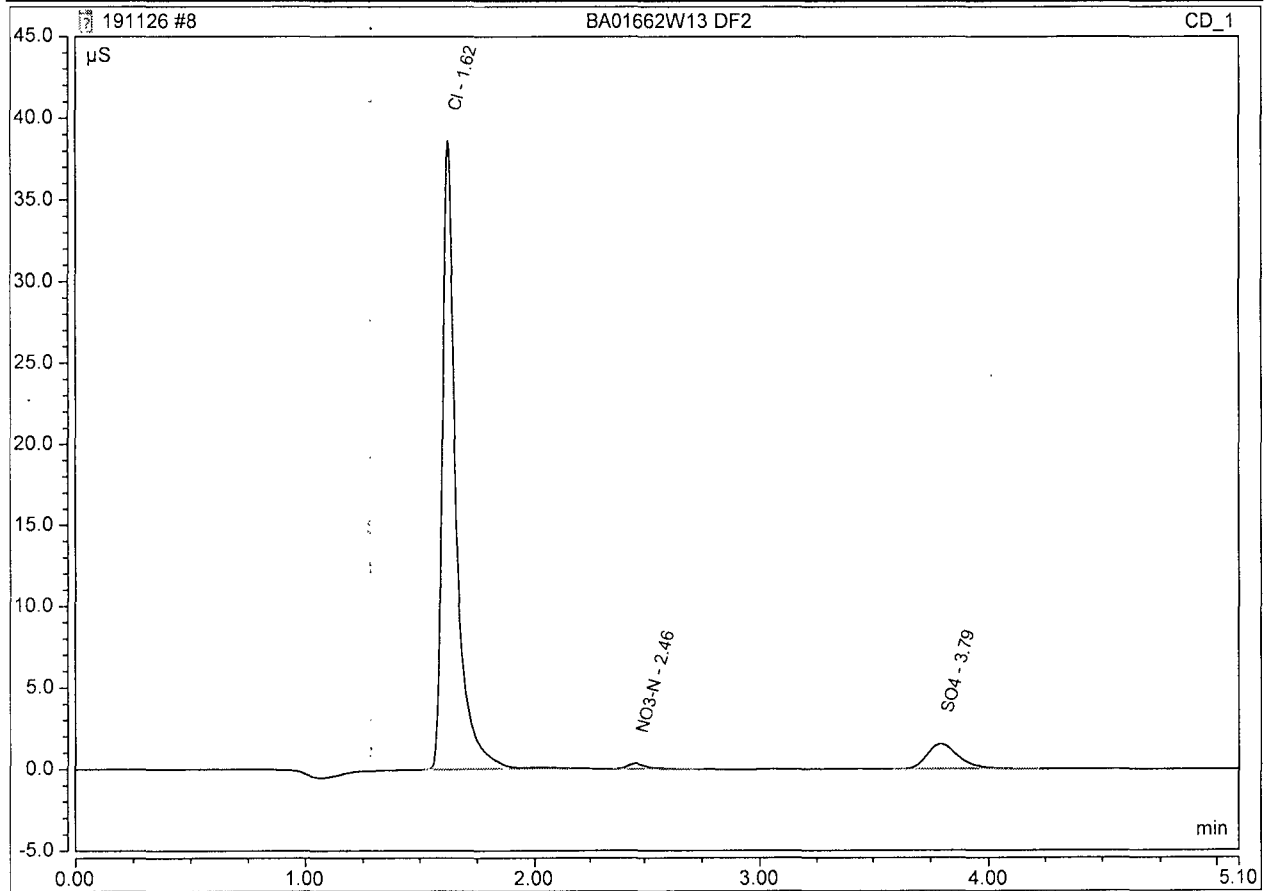


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:		BA01662W13 DF2			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		2.00	
Program:		Anion APM 191121			Operator:		chemist_wetlab	
Inj. Date / Time:		26-Nov-2019 / 17:41			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S} \cdot \text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S} \cdot \text{min}$	μS	mg/L	mg/L	
1	1.62	Cl	BMB	2.673	38.618	55.83		
2	2.46	NO3-N	BMB	0.033	0.345	0.35		
3	3.79	SO4	BMB	0.252	1.572	7.57		

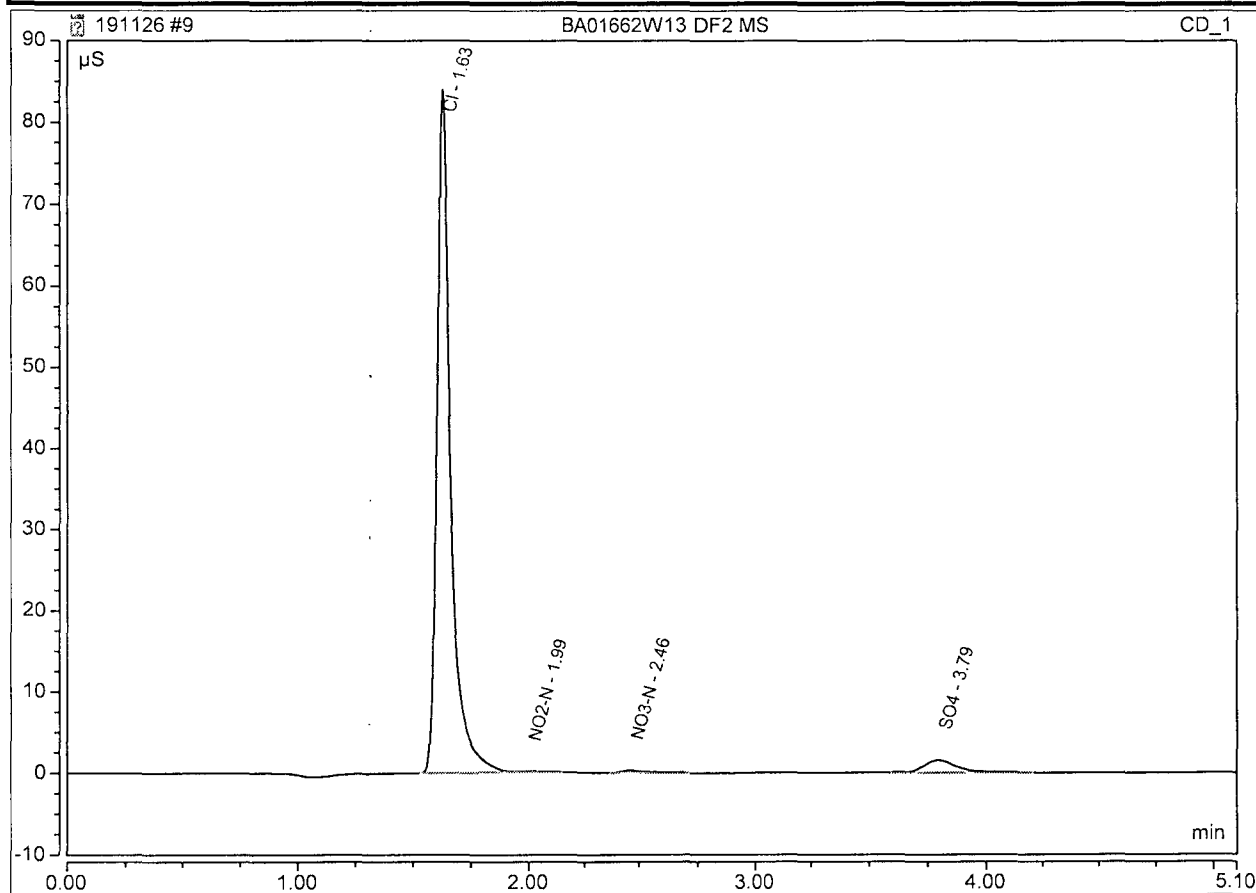


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:	BA01662W13 DF2 MS	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.00
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 17:49	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.63	Cl	BMB	5.692	83.971	118.72		
2	1.99	NO ₂ -N	BMB	0.005	0.046	0.08		
3	2.46	NO ₃ -N	BMB	0.032	0.335	0.34		
4	3.79	SO ₄	BMB	0.249	1.554	7.47		

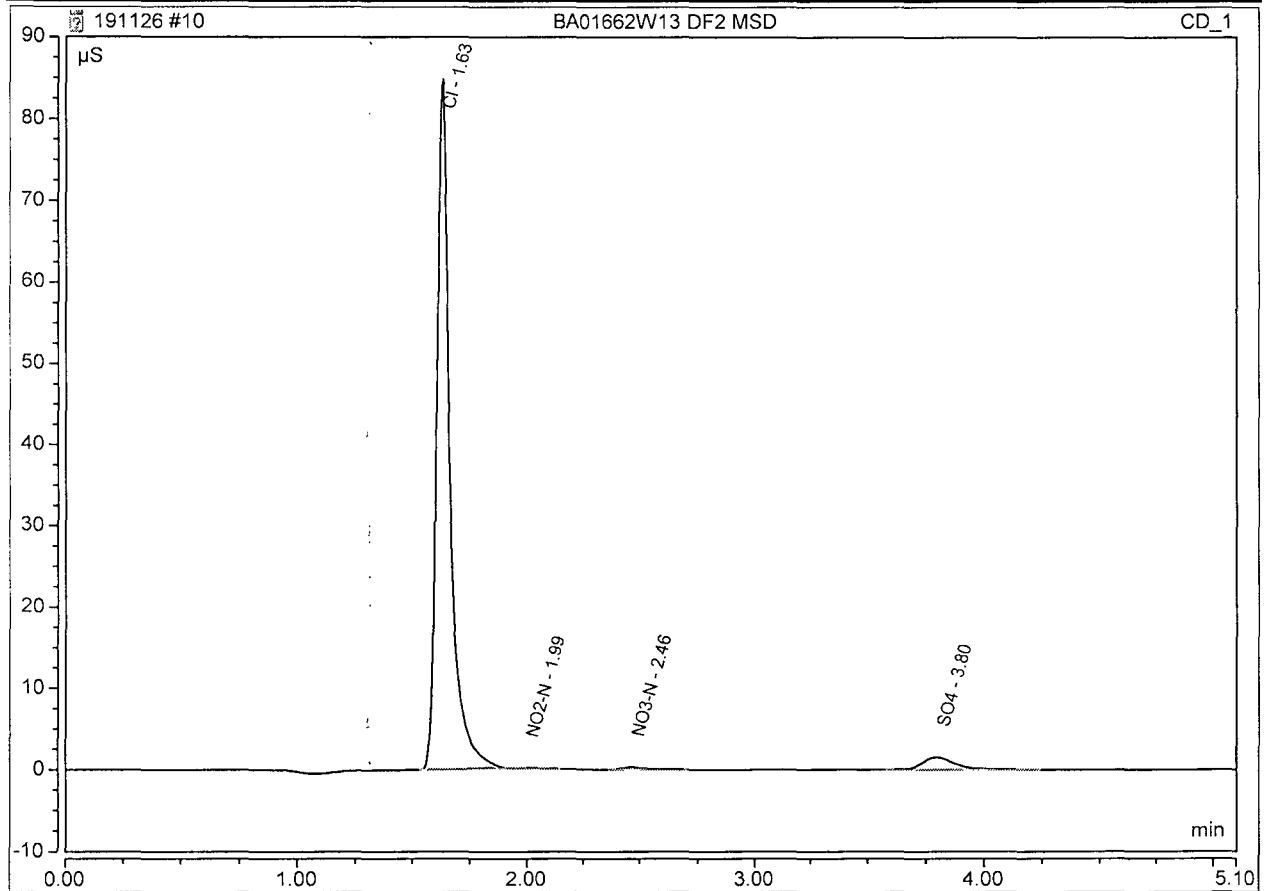


Logged on User: BW
Instrument: Charlie System_1
Sequence: 191126

Peak Integration Report

Sample Name:	BA01662W13 DF2 MSD	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.00
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 17:56	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.63	Cl	BMB	5.758	84.802	120.09		
2	1.99	NO ₂ -N	BMB	0.005	0.040	0.07		
3	2.46	NO ₃ -N	BMB	0.032	0.335	0.33		
4	3.80	SO ₄	BMB	0.250	1.557	7.49		

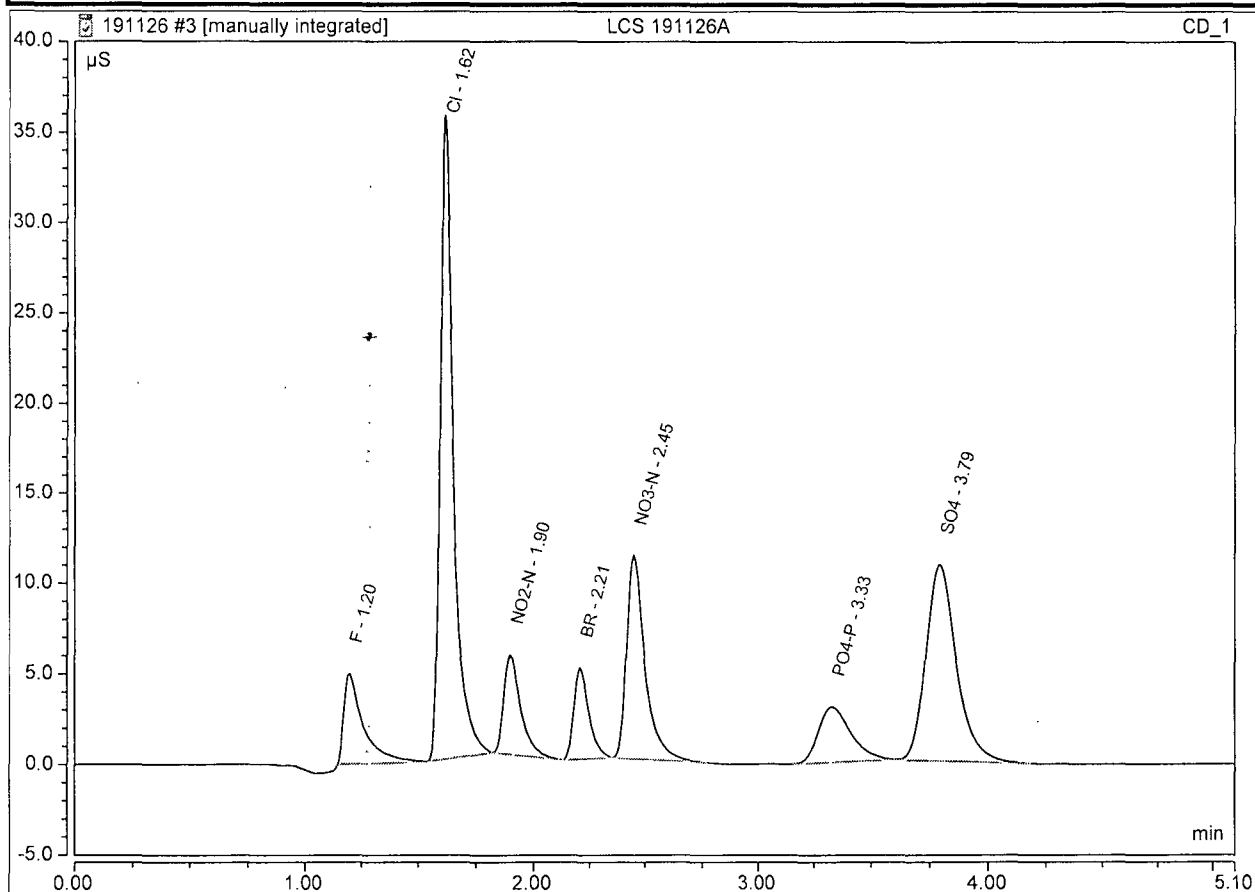


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:		LCS 191126A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 191121			Operator:		chemist_wetlab	
Inj. Date / Time:		26-Nov-2019 / 17:04			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.20	F	MB*	0.498	5.006	4.38	5	87.7%
2	1.62	Cl	BMB	2.350	35.604	24.55	25	98.2%
3	1.90	NO2-N	BMB	0.468	5.485	2.85	3.04	93.9%
4	2.21	BR	BMB	0.402	5.032	11.89	12.5	95.1%
5	2.45	NO3-N	BMB	1.048	11.226	4.72	5	94.4%
6	3.33	PO4-P	BMB	0.504	3.062	9.20	10	92.0%
7	3.79	SO4	BMB	1.632	10.833	23.91	25	95.6%



MI1 BW 191126

Algorithm Check

y = Peak Area

x = mg/L S04

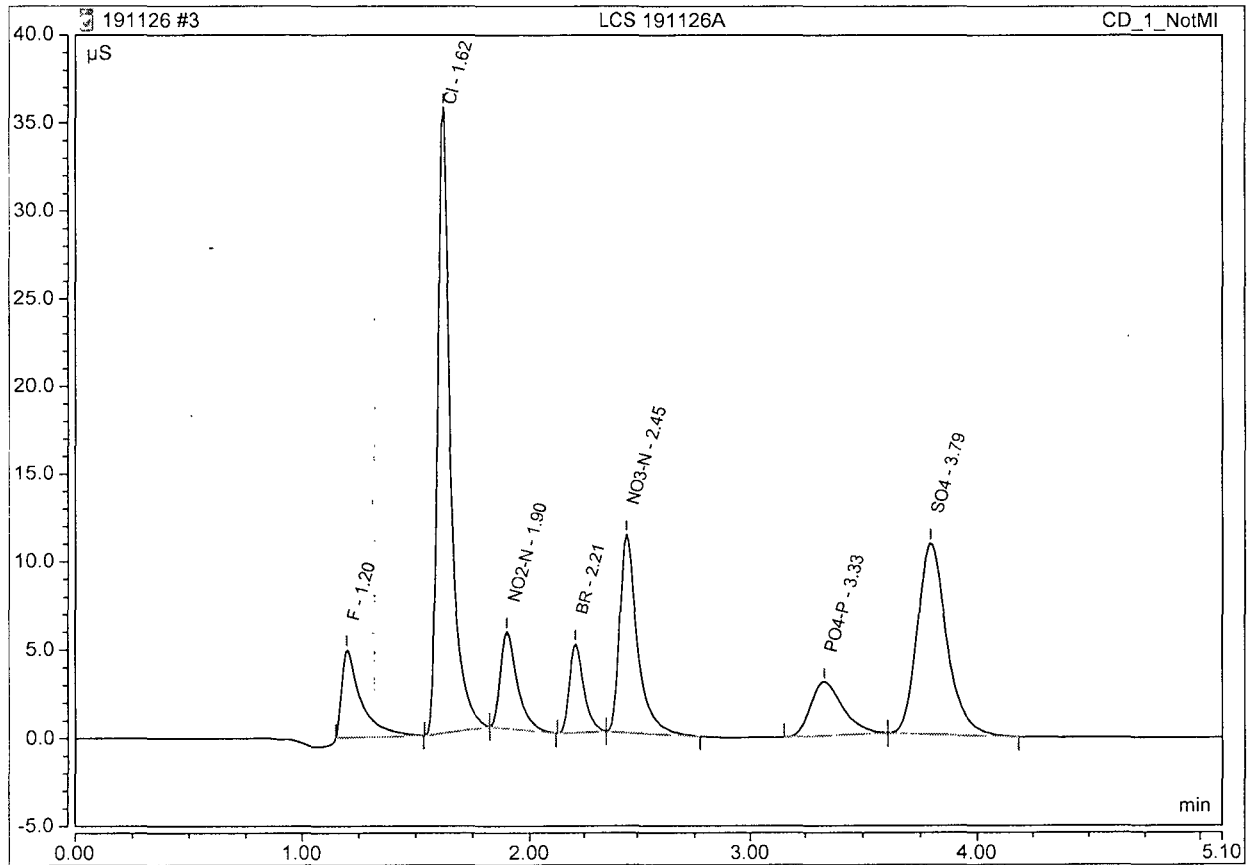
$$y = 0.0685 \quad x + \quad -0.0071$$

$$y = 1.6319 \quad \text{therefor } x =$$

Not Manipulated Peak Integration Report

Sample Name:	LCS 191126A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 17:04	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount mg/L
1	1.20	F	MB*	0.490	4.966	4.3100
2	1.62	Cl	BMB	2.350	35.604	24.5529
3	1.90	NO ₂ -N	BMB	0.468	5.485	2.8543
4	2.21	BR	BMB	0.402	5.032	11.8888
5	2.45	NO ₃ -N	BMB	1.048	11.226	4.7210
6	3.33	PO ₄ -P	BMB	0.504	3.062	9.9381
7	3.79	SO ₄	BMB	1.632	10.833	23.9114

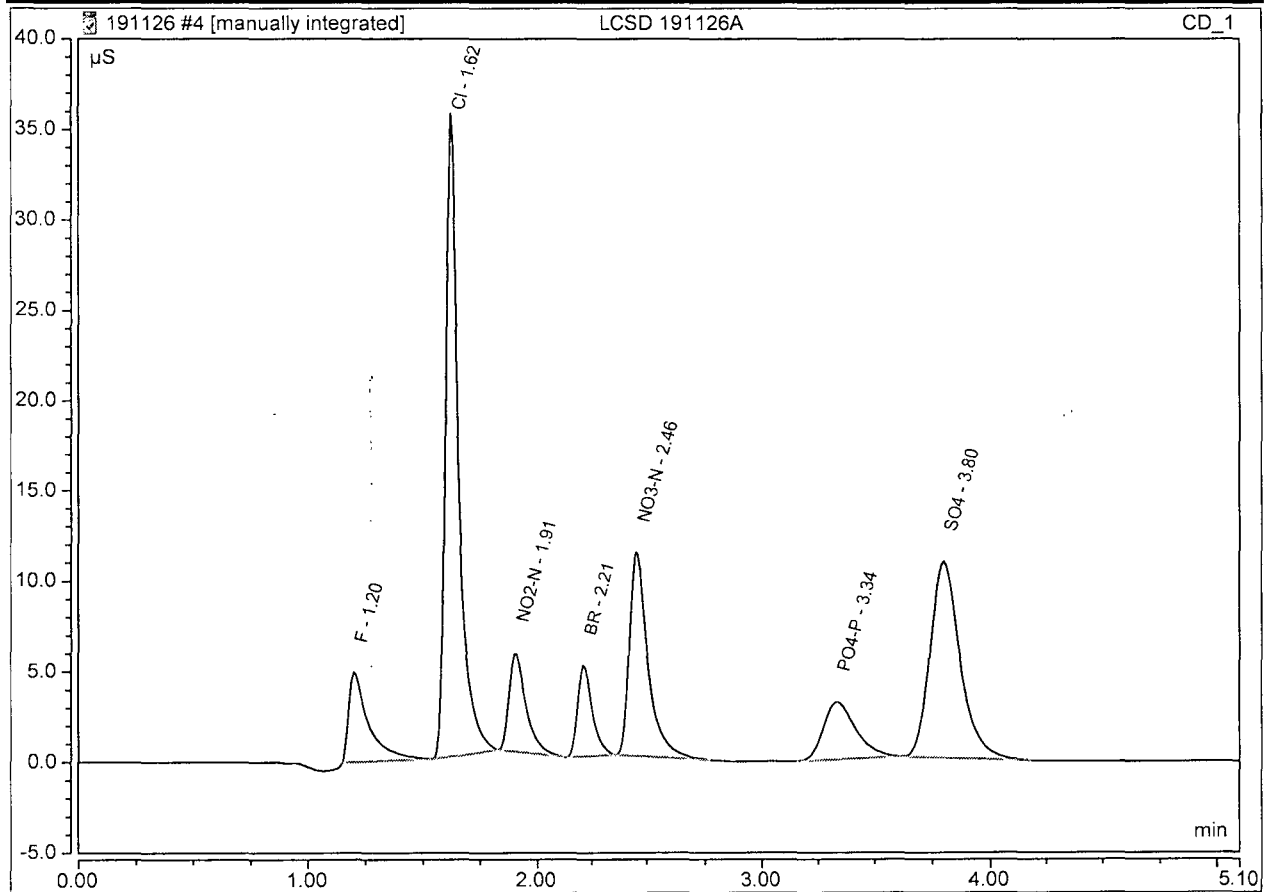


Logged on User: BW
 Instrument: Charlie System_1
 Sequence: 191126

Peak Integration Report

Sample Name:		LCSD 191126A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 191121			Operator:		chemist_wetlab	
Inj. Date / Time:		26-Nov-2019 / 17:11			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.20	F	MB*	0.495	4.955	4.35	5	87.1%
2	1.62	Cl	BMB	2.353	35.553	24.59	25	98.3%
3	1.91	NO2-N	BMB	0.469	5.476	2.86	3.04	94.1%
4	2.21	BR	BMB	0.402	5.030	11.90	12.5	95.2%
5	2.46	NO3-N	BMB	1.049	11.220	4.73	5	94.5%
6	3.34	PO4-P	BMB	0.522	3.171	9.47	10	94.7%
7	3.80	SO4	BMB	1.633	10.834	23.93	25	95.7%

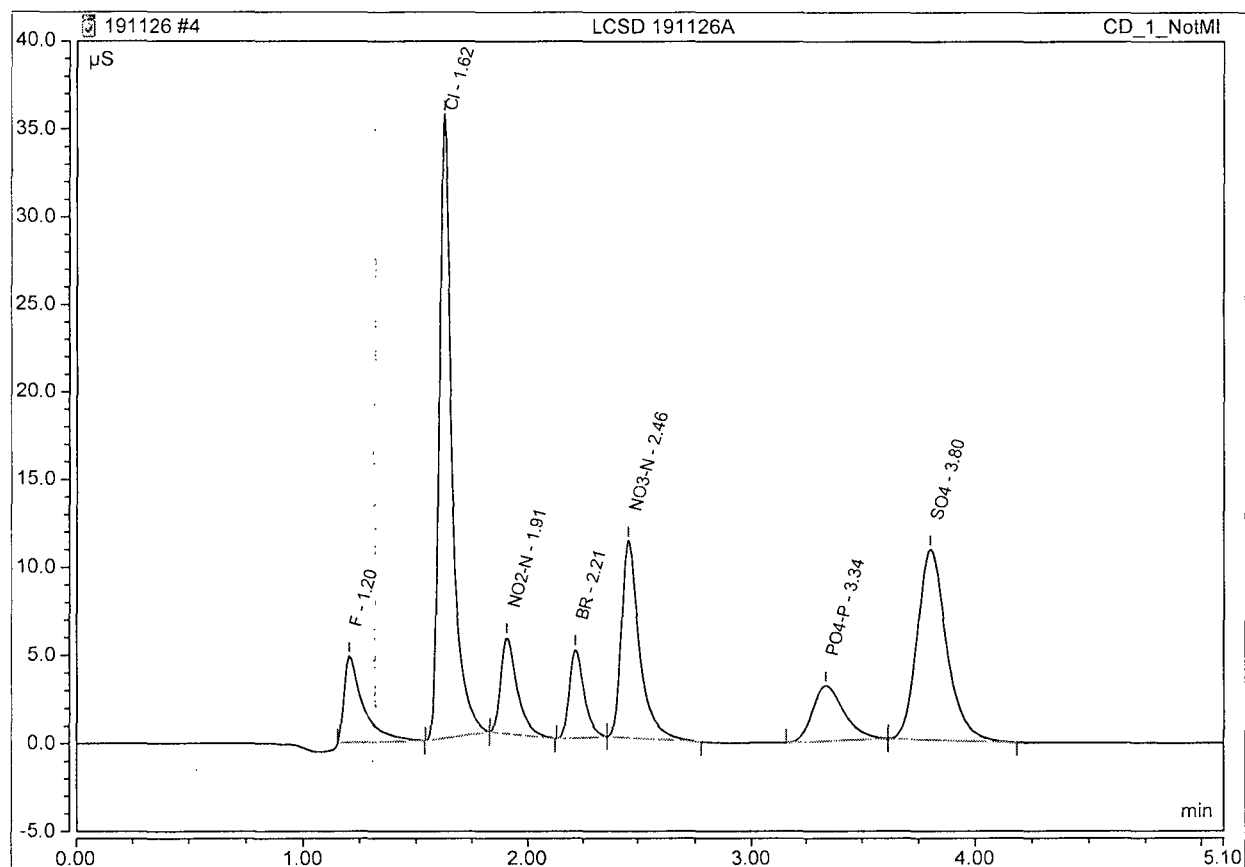


MI1 BW 191126

Not Manipulated Peak Integration Report

Sample Name:	LCSD 191126A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 191121	Operator:	chemist_wetlab
Inj. Date / Time:	26-Nov-2019 / 17:11	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.20	F	MB*	0.486	4.915	4.2805
2	1.62	Cl	BMB	2.353	35.553	24.5865
3	1.91	NO2-N	BMB	0.469	5.476	2.8598
4	2.21	BR	BMB	0.402	5.030	11.9013
5	2.46	NO3-N	BMB	1.049	11.220	4.7254
6	3.34	PO4-P	BMB	0.522	3.171	10.1978
7	3.80	SO4	BMB	1.633	10.834	23.9298



Anion Chromatography Working Standard									
Prep Date: 11/21/19									
Exp Date: 11/22/19									
Prep'd By (Initials): CD									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H ₂ O	o2si	O2SI-062002-01-01	1000	142635-24-30407	10/30/20	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 µg/mL in H ₂ O	Inorganic Ventures	ICN021	1000	N2-NOX672889	05/01/20	411 µL	25 mL	Millipore Water	5 as NO ₂ -N
Ion Chromatography Standard Chloride 5000 µg/mL in H ₂ O	o2si	062001-08-03	5000	19084781-1-39578	02/21/20	250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H ₂ O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	250 µL	25 mL	Millipore Water	10
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Agilent	ICC-006	1000	CS-0638-43047	03/31/22	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve									
Prep Date: 11/21/19									
Exp Date: 11/22/19									
Prep'd By (Initials): CD									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 11/21/19	11/22/19	200 µL	25000 µL	Millipore Water	0.04-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 11/21/19	11/22/19	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 11/21/19	11/22/19	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 11/21/19	11/22/19	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 11/21/19	11/22/19	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 11/21/19	11/22/19	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 11/21/19	11/22/19	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal8	5.0-50.0	Prepared 11/21/19	11/22/19	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography LCS/ICV									
Prep Date: See injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): CD									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Fluoride	Inorganic Ventures	ICF1	993-999	K-F652013-39801	10/23/19	125 µL	25 mL	Millipore Water	5
Nitrite	Inorganic Ventures	ICNO21	993-1001	M2-NOX660562-30802	10/23/19	250 µL	25 mL	Millipore Water	10
Chloride	Inorganic Ventures	ICCL1	995-1001	N2CL664868-39036	11/25/19	625 µL	25 mL	Millipore Water	25
O-Phosphate as P	Inorganic Ventures	ICPPO41	1001-1009	M2-POX655829-38803	10/23/19	250 µL	25 mL	Millipore Water	10
Nitrate as N	Inorganic Ventures	ICNNO31	997-1005	N2-NOX667147-39510	10/23/19	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Bromide, 1000 µg/mL in H ₂ O	CPI International	4400-IC8M	995-1005	16H087-37329	02/06/20	312.5 µL	25 mL	Millipore Water	12.5
Sulfate	Inorganic Ventures	ICSO41	998-1006	N2-SOX664929-33507	11/22/19	625 µL	25 mL	Millipore Water	25

Anion Chromatography CCV									
Prep Date: See injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): CD									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (ug/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H ₂ O	o2si	O2SI-062002-01-01	1000	687993-28-40744	10/30/20	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 µg/mL in H ₂ O	Inorganic Ventures	ICN021	1000	N2-NOX672889	05/01/20	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Chloride 5000 µg/mL in H ₂ O	o2si	062001-08-03	5000	19084781-1-39578	02/21/20	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	C34-CP-3323-39057	08/31/23	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H ₂ O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	125 µL	25 mL	Millipore Water	5
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	312.5 µL	25 mL	Millipore Water	12.5
Sulfate Standard	Agilent	ICC-006	1000	CS-0638-43047	03/31/22	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	BE1	ICAL1 191121	21/Nov/2019 17:15	Calibration Standard	
2	BE2	ICAL2 191121	21/Nov/2019 17:22	Calibration Standard	
3	BE3	ICAL5 191121	21/Nov/2019 17:30	Calibration Standard	
4	BE4	ICAL8 191121	21/Nov/2019 17:37	Calibration Standard	
5	R1	ICB 191121	21/Nov/2019 17:45	Unknown	
6	R3	ICV/LCS 191121	21/Nov/2019 17:52	Check Standard	
7	R3	LCSD 191121A	21/Nov/2019 18:00	Check Standard	
8	GA1	BA03357W06	21/Nov/2019 18:07	Unknown	
9	GA2	BA03358W18	21/Nov/2019 18:15	Unknown	
10	GA3	BA03359W06	21/Nov/2019 18:22	Unknown	
11	GA4	BA03361W06	21/Nov/2019 18:30	Unknown	
12	GA5	BA03368	21/Nov/2019 18:37	Unknown	Insight 191119 0935
13	GA6	BA03366	21/Nov/2019 18:45	Unknown	Insight 191119 1315
14	GA7	BA03367	21/Nov/2019 18:52	Unknown	Insight 191119 1450
15	GA8	BA03367 MS	21/Nov/2019 19:00	Unknown	Insight 191119 1450 MS
16	GB1	BA03367 MSD	21/Nov/2019 19:07	Unknown	Insight 191119 1450 MSD
17	GB2	AZ99924W02	21/Nov/2019 19:15	Unknown	SO4
18	R2	CCV 191121	21/Nov/2019 19:22	Check Standard	
19	R1	CCB 191121	21/Nov/2019 19:30	Unknown	
20	BA1	BA03260	21/Nov/2019 19:37	Unknown	GEO MW2 filtered; repeat sequenc
21	BA2	BA03261	21/Nov/2019 19:45	Unknown	GEO MW5 filtered
22	BA3	BA03291W04	21/Nov/2019 19:52	Unknown	
23	BA4	BA03292W04	21/Nov/2019 20:00	Unknown	
24	BA5	BA03293W03	21/Nov/2019 20:07	Unknown	
25	BA6	BA03287W04	21/Nov/2019 20:15	Unknown	filtered
26	BA7	BA03288W04	21/Nov/2019 20:22	Unknown	
27	BA7	BA03288W04 DUP	21/Nov/2019 20:30	Unknown	
28	BA8	BA03288W04 MS	21/Nov/2019 20:37	Unknown	
29	BB1	BA03288W04 MSD	21/Nov/2019 20:45	Unknown	
30	BB2	BA03289W03	21/Nov/2019 20:52	Unknown	
31	BB3	BA03285W01	21/Nov/2019 21:00	Unknown	
32	R2	CCV 191121	21/Nov/2019 21:07	Check Standard	
33	R1	CCB 191121	21/Nov/2019 21:15	Unknown	
34	R3	STOP	21/Nov/2019 21:20	Unknown	

Logged on User: BW
Instrument: Charlie System_1
Sequence: 191126

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	R2	CCV 191126	26/Nov/2019 16:49	Check Standard	
2	R1	CCB 191126	26/Nov/2019 16:56	Unknown	
3	R3	LCS 191126A	26/Nov/2019 17:04	Check Standard	
4	R3	LCSD 191126A	26/Nov/2019 17:11	Check Standard	
5	BD1	BA03715W01	26/Nov/2019 17:19	Unknown	NDF2 Cl
6	BD2	BA03716W01	26/Nov/2019 17:26	Unknown	filtered NDF2 SO4
7	BD3	BA03717W01	26/Nov/2019 17:34	Unknown	NDF2 SO4
8	BD4	BA01662W13 DF2	26/Nov/2019 17:41	Unknown	DF2 Cl
9	BD5	BA01662W13 DF2 MS	26/Nov/2019 17:49	Unknown	DF2 Cl
10	BD6	BA01662W13 DF2 MSD	26/Nov/2019 17:56	Unknown	DF2 Cl
11	R2	CCV 191126	26/Nov/2019 18:26	Check Standard	
12	R1	CCB 191126	26/Nov/2019 18:34	Unknown	
13	R3	STOP	26/Nov/2019 18:39	Unknown	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	BA1	ICAL1 190925	25/Sep/2019 16:54	Calibration Standard	
2	BA2	ICAL2 190925	25/Sep/2019 17:01	Calibration Standard	
3	BA3	ICAL5 190925	25/Sep/2019 17:09	Calibration Standard	
4	BA4	ICAL8 190925	25/Sep/2019 17:16	Calibration Standard	
5	R1	ICB 190925	25/Sep/2019 17:24	Unknown	
6	R3	ICV/LCS 190925	25/Sep/2019 17:31	Check Standard	
7	R3	ICVD/LCSD 190925	25/Sep/2019 17:39	Check Standard	
8	R2	CCV 190925	25/Sep/2019 17:46	Check Standard	
9	R1	CCB 190925	25/Sep/2019 17:54	Unknown	
10	RD7	BA0000W03	25/Sep/2019 18:01	Unknown	NDF10 NO3-N Cl; NDF100 SO4
11	RD8	BA00001W01	25/Sep/2019 18:09	Unknown	NDF10 NO3-N Cl; NDF100 SO4
12	RE1	BA00002W01	25/Sep/2019 18:16	Unknown	NDF10 NO3-N Cl; NDF100 SO4
13	RE3	BA00055W12	25/Sep/2019 18:24	Unknown	
14	RE4	BA00055W12 MS	25/Sep/2019 18:31	Unknown	
15	RE5	BA00055W12 MSD	25/Sep/2019 18:39	Unknown	
16	RE6	BA00065W01	25/Sep/2019 18:46	Unknown	
17	RE7	BA00094W12	25/Sep/2019 18:54	Unknown	filtered
18	RE8	BA00098W12	25/Sep/2019 19:01	Unknown	filtered
19	BA5	AZ99900W07	25/Sep/2019 19:09	Unknown	
20	BA6	AZ99908W07	25/Sep/2019 19:16	Unknown	
21	R2	CCV 190925	25/Sep/2019 19:24	Check Standard	
22	R1	CCB 190925	25/Sep/2019 19:31	Unknown	
23	R2	STOP	n.a.	Unknown	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	R2	CCV 191127	n.a.	Check Standard	
2	R1	CCB 191127	n.a.	Unknown	
3	R3	LCS 191127A	n.a.	Check Standard	
4	R3	LCSD 191127A	n.a.	Check Standard	
5	RA1	BA02466W DF2	n.a.	Unknown	needs DF2 CI ASAP
6	R2	CCV 191127	n.a.	Check Standard	
7	R1	CCB 191127	n.a.	Unknown	
8	RA2	BA03715W01 DF2	n.a.	Unknown	NDF2 CI
9	RA3	BA03716W01 DF2	n.a.	Unknown	filtered NDF2 SO4
10	RA4	BA03717W01 DF2	n.a.	Unknown	NDF2 SO4
11	RA5	BA03629W04 DF20	n.a.	Unknown	filtered NDF20 CI
12	RA6	BA03629W04 DF2	n.a.	Unknown	filtered NDF2 SO4
13	RA7	BA03642 DF10	n.a.	Unknown	filtered NDF10 CI
14	RA8	BA03637 DF5	n.a.	Unknown	NDF5 CI SO4
15	RB1	BA03619 DF20	n.a.	Unknown	df5 NDF20 CI
16	RB2	BA03621 DF10	n.a.	Unknown	DF5 NDF10 SO4
17	RB3	BA03621 DF50	n.a.	Unknown	DF5 NDF50 CI
18	RB4	BA03623 DF2	n.a.	Unknown	NDF2 CI SO4
19	RB5	BA03623 DF2 MS	n.a.	Unknown	NDF2 CI SO4
20	RB6	BA03623 DF2 MSD	n.a.	Unknown	NDF2 CI SO4
21	R2	CCV 191127	n.a.	Check Standard	
22	R1	CCB 191127	n.a.	Unknown	
23	RB7	BA03625 DF2	n.a.	Unknown	NDF2 CI SO4
24	RB8	BA03627 DF50	n.a.	Unknown	DF5 NDF50 CI
25	R2	CCV 191127	n.a.	Check Standard	
26	R1	CCB 191127	n.a.	Unknown	
27	R3	STOP	n.a.	Unknown	

INORGANIC ANALYSIS
Calibration Data

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 90532 SDG: 90532

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 10/25/19

Analyte	Calibration Verification									M
	True ICV	Found 18:10	%R(1)	True CCV1	Found 18:32	%R(1)	True CCV1	Found 18:53	%R(1)	
TOXN	3	2.9182	97.3	3	3.0831	103	3	2.961	98.7	

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 90532

SDG: 90532

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 10/25/19 18:12	C	CCB 10/25/19 18:34	C	CCB 10/25/19 18:54	C		C		C	
TOXN	.100	U	.100	U	.100	U					

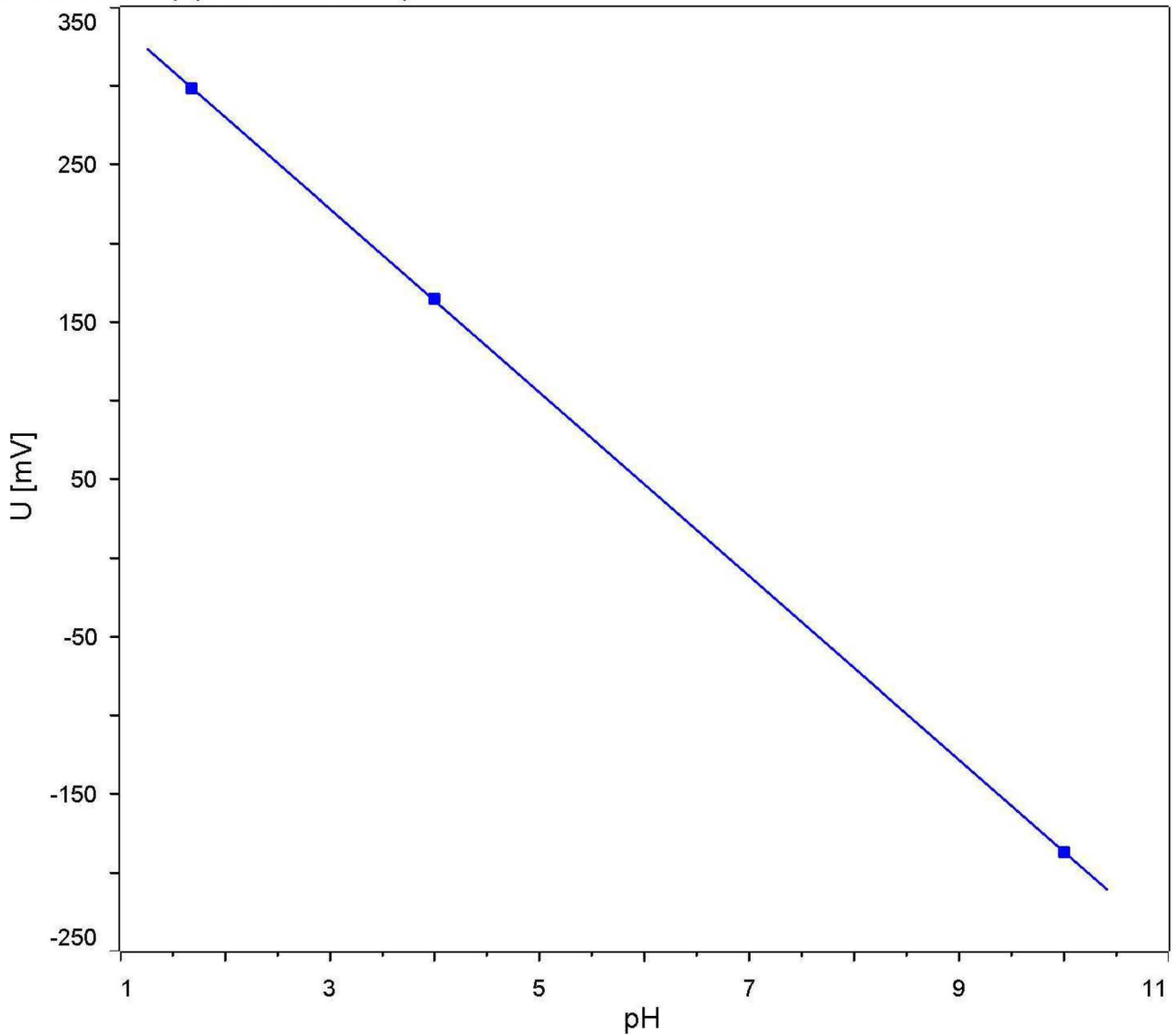
Timao Calibration Curve

2019-10-29 08:51:40

Calculations

Buffer 7	7.03
Formula	'MEAS pH.EME'
MEAS pH.EME	7.0332
Slope	100.30
Formula	'Calibration loop pH.SLO'
Calibration loop pH.SLO	100.3
pH(as)	6.80
Formula	'Calibration loop pH.ENP'
Calibration loop pH.ENP	6.802
Res19	20.1 °C
Formula	'CAL MEAS pH.ETE'
CAL MEAS pH.ETE	20.1307

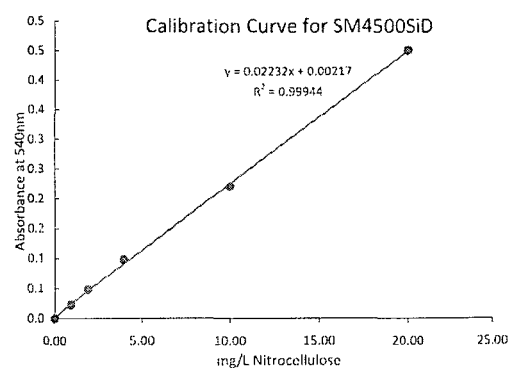
Calibration loop pH.1 - CAL LOOP pH



INORGANIC ANALYSIS
Raw Data

Method SM4500SiD		Silica		Rev 2, 04/05/19 controlled copy	
Analyte Silica		Units mg/L		Instrument: Genisis Spectrometer	
Analyst FJR		QCG: 191025A		Wavelength: 410 nm	
		Final Volume: 25mL		Units: mg/L	

Date	Time	Appl ID	[SiO2]	Absorbance	% Recovery
10/25/19	18:32	ICB	0.00	0.000	
10/25/19	18:33	Ical 1	1.00	0.023	93.3%
10/25/19	18:34	Ical 2	2.00	0.048	102.6%
10/25/19	18:34	Ical 3	4.00	0.098	102.8%
10/25/19	18:35	Ical 4	10.00	0.220	97.6%
10/25/19	18:36	Ical 5	20.00	0.450	100.3%
10/25/19	18:37	ICV	4.00	0.091	99.5%
10/25/19	18:37	ICB	0.00	0.001	



Slope	0.022323847	Algorithm Check:	Appl ID	Absorbance	Result
Intercept	0.002169607		191025A 4 LCS	0.088	3.84
Coefficient of Determination	0.999437587		Result = (Absorbance-Raw Blk-Intercept) / Slope		
		Test:	10/25/19	FJR	3.840

	Date	Time	Appl ID	DF	Raw Result	Sample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
id	10/25/19	18:32	ICB	1	0.000	25.0mL	-0.10	-0.10			
id	10/25/19	18:33	Ical 1	1	0.023	25.0mL	0.93	0.93	1.00	93.3%	
id	10/25/19	18:34	Ical 2	1	0.048	25.0mL	2.05	2.05	2.00	102.6%	
id	10/25/19	18:34	Ical 3	1	0.094	25.0mL	4.11	4.11	4.00	102.8%	
id	10/25/19	18:35	Ical 4	1	0.220	25.0mL	9.76	9.76	10.00	97.6%	
id	10/25/19	18:36	Ical 5	1	0.450	25.0mL	20.06	20.06	20.00	100.3%	
id	10/25/19	18:37	ICV	1	0.091	25.0mL	3.98	3.98	4.00	99.5%	
id	10/25/19	18:37	ICB	1	0.001	25.0mL	-0.05	-0.05			
	10/25/19	18:39	191025A CCV1 4	1	0.211	25mL	9.35	9.35	10.00	93.5%	
	10/25/19	18:39	191025A CCB	1	0.002	25mL	-0.01	-0.01			
	10/25/19	18:40	191025A BLK	1	0.000	25mL	-0.10	-0.10			
	10/25/19	18:40	191025A 4 LCS	1	0.088	25mL	3.84	3.84	4.00	96.1%	
	10/25/19	18:41	191025A 4 LCSD	1	0.089	25mL	3.89	3.89	4.00	97.2%	
	10/25/19	18:42	BA01662W12 DF5 TOT	5	0.196	25mL	8.68	43.41			
	10/25/19	18:43	BA01664W12 DF5 TOT	5	0.192	25mL	8.50	42.52			
	10/25/19	18:45	BA01665W07 DF5 TOT	5	0.117	25mL	5.14	25.72			
	10/25/19	18:46	BA01666W08 DF5 TOT	5	0.120	25mL	5.28	26.39			
	10/25/19	18:46	BA01666W08 DF5 TOT	5	0.185	25mL	8.19	40.95			
	10/25/19	18:47	BA01666W08 DF5 TOT	5	0.185	25mL	8.19	40.95			
	10/25/19	18:47	ba01662w14 DF5 DISSC	5	0.201	25mL	8.91	44.53			
	10/25/19	18:48	ba01664w14 DF5 DISSC	5	0.181	25mL	8.01	40.05			
	10/25/19	18:48	ba01664w14 DF5 DISSC	5	0.245	25mL	10.88	54.39			
	10/25/19	18:49	ba01664w14 DF5 DISSC	5	0.244	25mL	10.83	54.16			
	10/25/19	18:50	191025A CCV1 3	1	0.094	25mL	4.11	4.11	4.00	102.8%	
	10/25/19	0:01	191025A CCBxxx	1	0.785	25mL	35.09	35.09			
	10/25/19	18:50	191025A CCB	1	0.001	25mL	-0.05	-0.05			

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume					Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH	CO3	HCO3						
BA01664W13	2019-10-29 15:04:59 UTC-8	Alkalinity	0.000	1.260	0.00	0.00	52.42	52.42	mg/L	25 mL	0.0208	191029C	CD
BA01662W13	2019-10-29 14:58:47 UTC-8	Alkalinity	0.000	1.258	0.00	0.00	52.33	52.33	mg/L	25 mL	0.0208	191029C	CD
BA01660W07	2019-10-29 14:36:10 UTC-8	Alkalinity	0.000	2.372	0.00	0.00	98.68	98.68	mg/L	25 mL	0.0208	191029C	CD
BA01658W07	2019-10-29 14:29:02 UTC-8	Alkalinity	0.000	2.704	0.00	0.00	112.49	112.49	mg/L	25 mL	0.0208	191029C	CD
BA01656W07	2019-10-29 14:11:08 UTC-8	Alkalinity	0.000	2.012	0.00	0.00	83.70	83.70	mg/L	25 mL	0.0208	191029C	CD
BA01654W07	2019-10-29 13:28:56 UTC-8	Alkalinity	0.000	6.278	0.00	0.00	261.16	261.16	mg/L	25 mL	0.0208	191029C	CD
BA01651W07	2019-10-29 13:19:59 UTC-8	Alkalinity	0.000	4.436	0.00	0.00	184.54	184.54	mg/L	25 mL	0.0208	191029C	CD
191029C LCSD	2019-10-29 13:03:33 UTC-8	Alkalinity	0.072	5.876	0.00	5.99	238.45	244.44	mg/L	25 mL	0.0208	191029C	CD
191029C LCS	2019-10-29 12:52:32 UTC-8	Alkalinity	0.000	5.878	0.00	0.00	244.52	244.52	mg/L	25 mL	0.0208	191029C	CD
191029C LCSD	2019-10-29 12:25:30 UTC-8	Alkalinity	0.228	6.158	0.00	18.97	237.20	256.17	mg/L	25 mL	0.0208	191029C	CD
191029C LCS	2019-10-29 11:47:31 UTC-8	Alkalinity	0.000	5.236	0.00	0.00	217.82	217.82	mg/L	25 mL	0.0208	191029C	CD
191029C BLK	2019-10-29 11:45:11 UTC-8	Alkalinity	0.000	0.000	0.00	0.00	0.00	0.00	mg/L	25 mL	0.0208	191029C	CD

AQ2 Tray Report



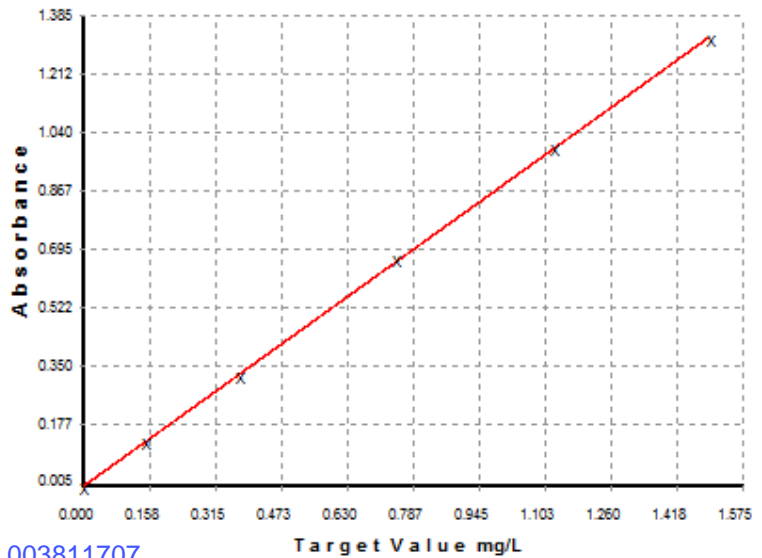
Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-10-28 10:58:04
Tray Number: 8
Tray Name: 191025A NO2 NO3 TOXN

Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0046	0.0014	0.0000	
S90	0.1341	0.1485	0.1500	-1.01
S91	0.3286	0.3694	0.3750	-1.49
S92	0.6686	0.7557	0.7500	0.75
S93	0.9985	1.1305	1.1250	0.48
S94	1.3191	1.4946	1.5000	-0.36
S0	0.0140	0.0121	0.0000	

Calibration Graph



Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.7
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -3.811707E-003
 b =: 1.135970E+000
 Date & Time: 2019-10-25 17:10:30

[Algorithm check](#)
 $y = 1.135970(0.635270) - 0.003811707$
 $y = 0.718$
 EV 11/04/19

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0046			0.004555			Ev	2019-10-25 17:03:09
S90	Standard 90	0.1341			0.134065			Ev	2019-10-25 17:04:22
S91	Standard 91	0.3286			0.328552			Ev	2019-10-25 17:05:36
S92	Standard 92	0.6686			0.668567			Ev	2019-10-25 17:06:49
S93	Standard 93	0.9985			0.998497			Ev	2019-10-25 17:08:03
S94	Standard 94	1.3191			1.319085			Ev	2019-10-25 17:09:16
S0	Standard 0	0.0140			0.014031			Ev	2019-10-25 17:10:30
CCV	CCV .75	0.7419	mg/L		0.656436			Ev	2019-10-25 17:11:44
CCB	CCB	0.0073	mg/L		0.009771			Ev	2019-10-25 17:12:58
3	U1 ✓ICV NO2	0.7178	mg/L		0.635270			Ev	2019-10-25 17:14:12
5	U3 ICB NO2 NO3 TOXN	0.0072	mg/L		0.009730			Ev	2019-10-25 17:15:26
6	U4 191025A BLK NO2 NO3 TOXN	0.0020	mg/L		0.005094			Ev	2019-10-25 17:16:39
7	U5 191025A LCS NO2	0.7295	mg/L		0.645518			Ev	2019-10-25 17:17:54
8	U6 191025A LCSD NO2	0.7263	mg/L		0.642699			Ev	2019-10-25 17:19:08
9	U7 191025A LCS NO3 TOXN	0.0078	mg/L		0.010262			Ev	2019-10-25 17:20:22
10	U8 194025A LCSD NO3 TOXN	0.0019	mg/L		0.005000			Ev	2019-10-25 17:21:37
11	U9 1ppm NO2	0.9851	mg/L		0.870580			Ev	2019-10-25 17:22:51

12	U10	1ppm NO3	0.0088	mg/L	0.011068		Ev	2019-10-25 17:24:04
13	U11	BA01115W01	2.4511	mg/L	0.542791	x4.0000	Ev	2019-10-25 19:16:47
13	U11	BA01115W01	2.4089	mg/L	2.123878		Ev	2019-10-25 17:25:20
	CCV	CCV .75	0.7569	mg/L	0.669625		Ev	2019-10-25 17:25:58
	CCB	CCB	0.0075	mg/L	0.009976		Ev	2019-10-25 17:28:07
14	U12	BA01117W01	0.0025	mg/L	0.005580		Ev	2019-10-25 17:30:21
15	U13	BA01579W12	0.0020	mg/L	0.005081		Ev	2019-10-25 17:32:39
16	U14	BA01579W12 MS	0.7343	mg/L	0.649781		Ev	2019-10-25 17:34:56
17	U15	BA01579W12 MSD	0.7333	mg/L	0.648889		Ev	2019-10-25 17:37:13
	CCV	CCV .75	0.7244	mg/L	0.641005		Ev	2019-10-25 17:39:31
	CCB	CCB	0.0066	mg/L	0.009145		Ev	2019-10-25 17:41:44
	CCV	CCV .75	0.7596	mg/L	0.671998			2019-10-25 19:12:16
	CCB	CCB	0.0065	mg/L	0.009050			2019-10-25 19:14:34
	CCV	CCV .75	0.7341	mg/L	0.649603			2019-10-25 19:19:00
	CCB	CCB	0.0070	mg/L	0.009526			2019-10-25 19:20:08

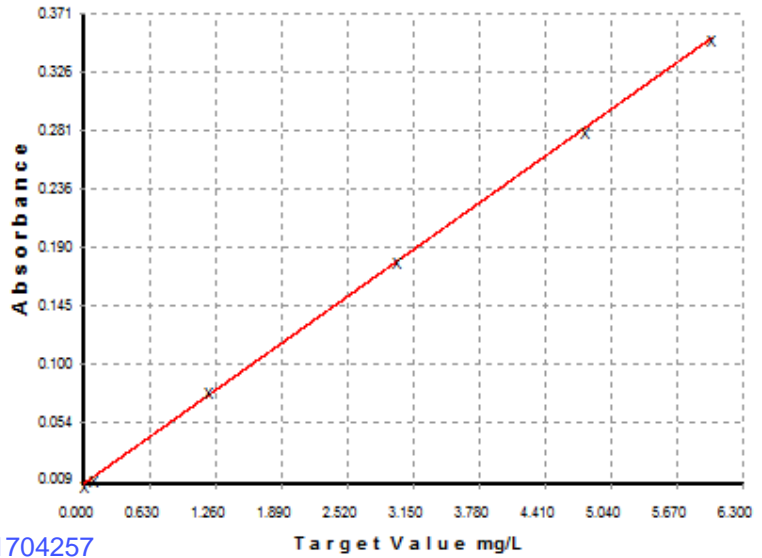
TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0089	-0.0141	0.0000	
S90	0.0136	0.0673	0.1000	-32.73
S91	0.0816	1.2572	1.2000	4.77
S92	0.1824	3.0197	3.0000	0.66
S93	0.2815	4.7531	4.8000	-0.98
S94	0.3538	6.0168	6.0000	0.28
S0	0.0090	-0.0126	0.0000	

Polynomial Order: 1
 Correlation Coefficient: 0.9999
 Carryover(%): 0.0
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.704257E-001
 b =: 1.748890E+001
 Date & Time: 2019-10-25 18:03:38

Calibration Graph



Algorithm check
 $y = 17.48890(0.176605) - 0.1704257$
 $y = 2.92$
 EV 11/04/19

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0089			0.008941			Ev	2019-10-25 17:50:30
S90	Standard 90	0.0136			0.013591			Ev	2019-10-25 17:52:41
S91	Standard 91	0.0816			0.081632			Ev	2019-10-25 17:54:53
S92	Standard 92	0.1824			0.182407			Ev	2019-10-25 17:57:04
S93	Standard 93	0.2815			0.281524			Ev	2019-10-25 17:59:15
S94	Standard 94	0.3538			0.353778			Ev	2019-10-25 18:01:27
S0	Standard 0	0.0090			0.009022			Ev	2019-10-25 18:03:38
CCV	CCV	3.0328	mg/L		0.183159			Ev	2019-10-25 18:05:50
CCB	CCB	-0.0183	mg/L		0.008696			Ev	2019-10-25 18:08:02
4	U2	✓ ICV NO3 TOXN	2.9182	mg/L	0.176605			Ev	2019-10-25 18:10:14
5	U3	ICB NO2 NO3 TOXN	-0.0138	mg/L	0.008954			Ev	2019-10-25 18:12:26
6	U4	191025A BLK NO2 NO3 TOXN	-0.0088	mg/L	0.009240			Ev	2019-10-25 18:14:39
9	U7	191025A LCS NO3 TOXN	3.0090	mg/L	0.181799			Ev	2019-10-25 18:16:51
10	U8	194025A LCSD NO3 TOXN	3.2938	mg/L	0.198082			Ev	2019-10-25 18:19:03
12	U10	1ppm NO3	1.0131	mg/L	0.067674			Ev	2019-10-25 18:21:15
14	U12	BA01117W01	9.9271	mg/L	0.066507	x10.0000		Ev	2019-10-25 19:25:17
14	U12	BA01117W01	10.4563	mg/L	0.607626			Ev	2019-10-25 18:23:27
15	U13	BA01579W12	0.6195	mg/L	0.045170			Ev	2019-10-25 18:25:40
16	U14	BA01579W12 MS	4.0269	mg/L	0.239997			Ev	2019-10-25 18:27:52
17	U15	BA01579W12 MSD	4.0394	mg/L	0.240715			Ev	2019-10-25 18:30:04
	CCV	CCV	3.0831	mg/L	0.186033			Ev	2019-10-25 18:32:17
	CCB	CCB	-0.0162	mg/L	0.008818			Ev	2019-10-25 18:34:30
18	U16	BA01582W08	0.5623	mg/L	0.041899			Ev	2019-10-25 18:36:42
19	U17	BA01651W08	-0.0088	mg/L	0.009240			Ev	2019-10-25 18:38:54
20	U18	BA01654W08	1.7310	mg/L	0.108724			Ev	2019-10-25 18:41:08
21	U19	BA01656W08	0.8269	mg/L	0.057028			Ev	2019-10-25 18:43:20
22	U20	BA01658W08	0.6408	mg/L	0.046384			Ev	2019-10-25 18:45:32
23	U21	BA01660W08	1.0870	mg/L	0.071899			Ev	2019-10-25 18:47:44
24	U22	BA01662W15	0.3557	mg/L	0.030085			Ev	2019-10-25 18:49:57
25	U23	BA01664W15	0.3196	mg/L	0.028019			Ev	2019-10-25 18:50:35
26	U24	BA01775W13	-0.0026	mg/L	0.009594			Ev	2019-10-25 18:51:39
27	U25	BA01777W13	0.4837	mg/L	0.037402			Ev	2019-10-25 18:52:35
	CCV	CCV	2.9610	mg/L	0.179053			Ev	2019-10-25 18:53:31

	CCB	CCB	-0.0062	mg/L	0.009390	Ev	2019-10-25 18:54:28
28	U26	BA01779W13	1.9738	mg/L	0.122604	Ev	2019-10-25 18:55:25
29	U27	BA01784W18	0.3027	mg/L	0.027053	Ev	2019-10-25 18:56:21
	CCV	CCV	3.0799	mg/L	0.185849	Ev	2019-10-25 18:57:17
	CCB	CCB	-0.0319	mg/L	0.007922	Ev	2019-10-25 18:58:14
	CCV	CCV	3.0702	mg/L	0.185297		2019-10-25 19:23:23
	CCB	CCB	-0.0107	mg/L	0.009131		2019-10-25 19:24:20
	CCV	CCV	3.1146	mg/L	0.187837		2019-10-25 19:26:13
	CCB	CCB	-0.0095	mg/L	0.009199		2019-10-25 19:27:10

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
6	U4	191025A BLK NO2 NO3 TOXN	-0.0108	mg/L		0.000000			Ev	2019-10-25 18:14:39
6	U4	191025A BLK NO2 NO3 TOXN				0.000000			Ev	2019-10-25 18:14:39
9	U7	191025A LCS NO3 TOXN	3.0012	mg/L		0.000000			Ev	2019-10-25 18:16:51
9	U7	191025A LCS NO3 TOXN				0.000000			Ev	2019-10-25 18:16:51
10	U8	194025A LCSD NO3 TOXN	3.2919	mg/L		0.000000			Ev	2019-10-25 18:19:03
10	U8	194025A LCSD NO3 TOXN				0.000000			Ev	2019-10-25 18:19:03
12	U10	1ppm NO3	1.0044	mg/L		0.000000			Ev	2019-10-25 18:21:15
12	U10	1ppm NO3				0.000000			Ev	2019-10-25 18:21:15
14	U12	BA01117W01	9.9246	mg/L		0.000000			Ev	2019-10-25 19:25:17
14	U12	BA01117W01				0.000000			Ev	2019-10-25 19:25:17
15	U13	BA01579W12	0.6176	mg/L		0.000000			Ev	2019-10-25 18:25:40
15	U13	BA01579W12				0.000000			Ev	2019-10-25 18:25:40
16	U14	BA01579W12 MS	3.2925	mg/L		0.000000			Ev	2019-10-25 18:27:52
16	U14	BA01579W12 MS				0.000000			Ev	2019-10-25 18:27:52
17	U15	BA01579W12 MSD	3.3061	mg/L		0.000000			Ev	2019-10-25 18:30:04
17	U15	BA01579W12 MSD				0.000000			Ev	2019-10-25 18:30:04

Method SM3500Fe		Units mg/L		Rev 2, 04-05-19	
Analyte Fe2+		QCG: 191023		Instrument: Genesis Spectrometer	
Analyst fjr		Final Volume: 50mL		Wavelength: 510 nm	
Units: mg/L					

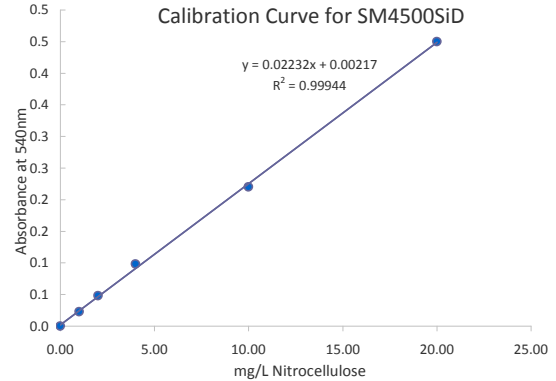
Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	

Slope	0.102479592	Algorithm Check:	Appl ID	Absorbance	Result
Intercept	-0.005591837		ICV/LCS 191023A	0.315	3.13
Coefficient of Determination	0.999872044		Result = (Absorbance-Raw Blk-Intercept)/ Slope		
		Test:	FJR	10/23/19	3.13

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
10/23/19	23:25	CCV 4.0 191023	1	0.408	25mL		4.04	4.04	4.00	100.9%
10/23/19	23:24	CCB 191023	1	0.000	25mL		0.05	0.05		
10/23/19	23:26	ICV/LCS 191023A	1	0.315	25mL		3.13	3.13	3.00	104.3%
10/23/19	23:26	ICV/LCSD 191023A	1	0.317	25mL		3.15	3.15	3.00	104.9%
10/23/19	23:27	BA01651W09	1	0.238	25mL		2.38	2.38		
10/23/19	23:28	BA01654W09	1	0.004	25mL		0.09	0.09		
10/23/19	23:28	BA01656W09	1	0.002	25mL		0.07	0.07		
10/23/19	23:29	BA01658W09	1	0.003	25mL		0.08	0.08		
10/23/19	23:30	BA01660W09	1	0.005	25mL		0.10	0.10		
10/23/19	23:31	BA01662W16	1	0.005	25mL		0.10	0.10		
10/23/19	23:31	BA01664W16	1	0.004	25mL		0.09	0.09		
10/23/19	23:32	BA01664W16 MS	1	0.306	25mL		3.04	3.04		
10/23/19	23:32	BA01664W16 MSD	1	0.307	25mL		3.05	3.05		
10/23/19	23:33	CCV 4.0 191023	1	0.414	25mL		4.09	4.09	4.00	102.4%
10/23/19	23:33	CCB 191023	1	0.003	25mL		0.08	0.08		

Method SM4500SiD		Silica	Rev 2, 04/05/19 controlled copy	
Analyte Silica		Units mg/L	Instrument: Genesis Spectrometer	
Analyst FJR		QCG: 191025A	Wavelength: 410 nm	
		Final Volume: 25mL	Units: mg/L	

Date	Time	Appl ID	[SiO2]	Absorbance	% Recovery
10/25/19	18:32	ICB	0.00	0.000	
10/25/19	18:33	Ical 1	1.00	0.023	93.3%
10/25/19	18:34	Ical 2	2.00	0.048	102.6%
10/25/19	18:34	Ical 3	4.00	0.098	102.8%
10/25/19	18:35	Ical 4	10.00	0.220	97.6%
10/25/19	18:36	Ical 5	20.00	0.450	100.3%
10/25/19	18:37	ICV	4.00	0.091	99.5%
10/25/19	18:37	ICB	0.00	0.001	



Slope	0.022323847	Algorithm Check:	Appl ID	Absorbance	Result
Intercept	0.002169607		191025A 4 LCS	0.088	3.84
Coefficient of Determination	0.999437587		Result = (Absorbance-Raw Blk-Intercept)/ Slope		
			Test:	10/25/19	FJR	3.840

	Date	Time	Appl ID	DF	Raw Result	Sample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
id	10/25/19	18:32	ICB	1	0.000	25.0mL	-0.10	-0.10	-0.10		
id	10/25/19	18:33	Ical 1	1	0.023	25.0mL	0.93	0.93	0.93	1.00	93.3%
id	10/25/19	18:34	Ical 2	1	0.048	25.0mL	2.05	2.05	2.05	2.00	102.6%
id	10/25/19	18:34	Ical 3	1	0.094	25.0mL	4.11	4.11	4.11	4.00	102.8%
id	10/25/19	18:35	Ical 4	1	0.220	25.0mL	9.76	9.76	9.76	10.00	97.6%
id	10/25/19	18:36	Ical 5	1	0.450	25.0mL	20.06	20.06	20.06	20.00	100.3%
id	10/25/19	18:37	ICV	1	0.091	25.0mL	3.98	3.98	3.98	4.00	99.5%
id	10/25/19	18:37	ICB	1	0.001	25.0mL	-0.05	-0.05	-0.05		
	10/25/19	18:39	191025A CCV1 4	1	0.211	25mL	9.35	9.35	9.35	10.00	93.5%
	10/25/19	18:39	191025A CCB	1	0.002	25mL	-0.01	-0.01	-0.01		
	10/25/19	18:40	191025A BLK	1	0.000	25mL	-0.10	-0.10	-0.10		
	10/25/19	18:40	191025A 4 LCS	1	0.088	25mL	3.84	3.84	3.84	4.00	96.1%
	10/25/19	18:41	191025A 4 LCSD	1	0.089	25mL	3.89	3.89	3.89	4.00	97.2%
	10/25/19	18:42	BA01662W12 DF5	5	0.196	25mL	8.68	8.68	43.41		
	10/25/19	18:43	BA01664W12 DF5	5	0.192	25mL	8.50	8.50	42.52		
	10/25/19	18:45	BA01665W07 DF5	5	0.117	25mL	5.14	5.14	25.72		
	10/25/19	18:46	BA01666W08 DF5	5	0.120	25mL	5.28	5.28	26.39		
	10/25/19	18:46	BA01666W08 DF5 MS	5	0.185	25mL	8.19	8.19	40.95		
	10/25/19	18:47	BA01666W08 DF5 MSI	5	0.185	25mL	8.19	8.19	40.95		
	10/25/19	18:47	BA01662w14 DF5 DISS	5	0.201	25mL	8.91	8.91	44.53		
	10/25/19	18:48	BA01664w14 DF5 DISS	5	0.181	25mL	8.01	8.01	40.05		
	10/25/19	18:48	BA01664w14 DF5 DISS	5	0.245	25mL	10.88	10.88	54.39		
	10/25/19	18:49	BA01664w14 DF5 DISS	5	0.244	25mL	10.83	10.83	54.16		
	10/25/19	18:50	191025A CCV1 3	1	0.094	25mL	4.11	4.11	4.11	4.00	102.8%
	10/25/19	0:01	191025A CCB	1	0.785	25mL	35.09	35.09	35.09		

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume			CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
			(to 8.3)	(total)	OH								
BA01664W13	2019-10-29 15:04:59 UTC-8	Alkalinity	0.000	1.260	0.00	52.42	52.42	mg/L	25 mL	0.0208	191029C	CD	
BA01662W13	2019-10-29 14:58:47 UTC-8	Alkalinity	0.000	1.258	0.00	52.33	52.33	mg/L	25 mL	0.0208	191029C	CD	
BA01660W07	2019-10-29 14:36:10 UTC-8	Alkalinity	0.000	2.372	0.00	98.68	98.68	mg/L	25 mL	0.0208	191029C	CD	
BA01658W07	2019-10-29 14:29:02 UTC-8	Alkalinity	0.000	2.704	0.00	112.49	112.49	mg/L	25 mL	0.0208	191029C	CD	
BA01656W07	2019-10-29 14:11:08 UTC-8	Alkalinity	0.000	2.012	0.00	83.70	83.70	mg/L	25 mL	0.0208	191029C	CD	
BA01654W07	2019-10-29 13:28:56 UTC-8	Alkalinity	0.000	6.278	0.00	261.16	261.16	mg/L	25 mL	0.0208	191029C	CD	
BA01651W07	2019-10-29 13:19:59 UTC-8	Alkalinity	0.000	4.436	0.00	184.54	184.54	mg/L	25 mL	0.0208	191029C	CD	
191029C LCSD	2019-10-29 12:25:30 UTC-8	Alkalinity	0.228	6.158	18.97	237.20	256.17	mg/L	25 mL	0.0208	191029C	CD	
191029C LCS	2019-10-29 11:47:31 UTC-8	Alkalinity	0.000	5.236	0.00	217.82	217.82	mg/L	25 mL	0.0208	191029C	CD	
191029C BLK	2019-10-29 11:45:11 UTC-8	Alkalinity	0.000	0.000	0.00	0.00	0.00	mg/L	25 mL	0.0208	191029C	CD	

Standard Prep							
Prep Date	Ferrous Iron Standards		Prep'd By (Initials)		FJR		
Exp Date	06/28/19						
	06/27/20						
Stock Label	Supplier	Batch Number	Exp Date	Aliquot from Stock	Final Volume	Solvent	Ferrous Iron Concentration
Ferrous Ammonium Sulfate	J.T.Baker	0000184592	08/21/20	0.351	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Sulfate	Mallinckrodt	Lot 5056 KDRX	NA	0.250	250mL	5ml H2SO4 (0000167828) Diluted with water	200ug/L
Ferrous Iron CCV/LCS/MS/ICV			Prep'd By (Initials)		FJR		
Prep Date	See Injection Log						
Exp Date	24 Hours						
Initial Standard Information	Supplier	Batch Number	Exp Date	Final Standard Information			
Ferrous Iron CCV	J.T.Baker	0000184592	06/14/19	500uL	25mL	Deionized water	4mg/L
Ferrous Iron ICV/LCS	Mallinckrodt	Lot 5056 KDRX	06/14/19	375uL	25mL	Deionized water	3mg/L
Ferrous Iron Calibration Curve			Prep'd By (Initials)		FJR		
Prep Date	06/28/19						
Exp Date	06/27/20						
Final Standard Information							
Point Label	Supplier	Batch Number	Exp Date	Aliquot from Stock (mL)	Final Volume	Solvent	Ferrous Iron Concentration
CCB	J.T.Baker	0000184592	06/14/19	0	25mL	Deionized water	0mg/L
Ical 1	J.T.Baker	0000184592	06/14/19	0.125	25mL	Deionized water	1mg/L
Ical 2	J.T.Baker	0000184592	06/14/19	0.25	25mL	Deionized water	2mg/L
Ical 3	J.T.Baker	0000184592	06/14/19	0.5	25mL	Deionized water	4mg/L
Ical 4	J.T.Baker	0000184592	06/14/19	0.625	25mL	Deionized water	5mg/L
Ical 5	J.T.Baker	0000184592	06/14/19	1.25	25mL	Deionized water	10mg/L
ICV	Mallinckrodt	Lot 5056 KDRX	06/14/19	0.375	25mL	Deionized water	3mg/L

Reagent Prep					
Reagent	Chemical Lot #	Chemical	Chemical Expiration Date	Amount	Date Prep
Colorizer	0747C107	1,10-phenanthroline	na	1.00g 1L DI	09/26/19
		10% HCL conc	na	enough to dissolve	01/15/19
Buffer	Z28B018	Ammonia Acetate	na	248.2G	09/26/19
	2018071399	Glacial Acetic Acid	06/27/20	700mL	

Silica Standard Prep

Spike Amount (uL)*	Final Volume (mL)	Final Concentration (ppm)
25	25	1
50	25	2
100 (CCV2)	25	4
250 (CCV1)	25	10
500	25	20

*Curve Spiked with 1000 ppm SiO₂ o2si lot 1098096-37186 (exp: 4/29/18)

ICV/LCS = 4ppm SiO₂

100 uL of 1000 ppm SiO₂ Ultra Scientific Lot P01064-32895 (exp: 11/30/19) brought up to 25mL with DI

MS = 4ppm SiO₂

100 uL of 1000 ppm SiO₂ Ultra Scientific Lot P01064-32895 (exp: 11/30/19) brought up to 25mL with sample

Prep: 10/25/19

Exp: 10/25/19

Initials: FJR

Tiamo Alkalinity Standard Prep										
Prep Date:										
Exp Date:										
Prep'd By (Initials): AR										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	167828	NA	NA	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	167828	05/24/19	05/24/20	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	167828	05/24/19	05/24/20	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	1575C510	09/17/19	03/17/20	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	178494	07/25/17	07/25/19	PURCHASED	NA	NA	NA

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 10/25/19

Exp 11/01/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21 and
0.125 mL NO₃ Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
Final volume 50 mL of sample

Prep 10/25/19

Exp 11/01/19

EV

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	25 Oct 2019	17:50	Standard 1 TOXN/NO3		191025A NO	1.
2	25 Oct 2019	17:52	Standard 90 TOXN/NO3		191025A NO	1.
3	25 Oct 2019	17:54	Standard 91 TOXN/NO3		191025A NO	1.
4	25 Oct 2019	17:57	Standard 92 TOXN/NO3		191025A NO	1.
5	25 Oct 2019	17:59	Standard 93 TOXN/NO3		191025A NO	1.
6	25 Oct 2019	18:01	Standard 94 TOXN/NO3		191025A NO	1.
7	25 Oct 2019	18:03	Standard 0 TOXN/NO3		191025A NO	1.
10	25 Oct 2019	18:10	ICV NO3 TOXN		191025A NO	1.
11	25 Oct 2019	18:12	ICB NO2 NO3 TOXN		191025A NO	1.
12	25 Oct 2019	18:14	191025A BLK NO2 NO3 TOXN		191025A NO	1.
13	25 Oct 2019	18:16	191025A LCS NO3 TOXN		191025A NO	1.
14	25 Oct 2019	18:19	194025A LCSD NO3 TOXN		191025A NO	1.
19	25 Oct 2019	18:32	CCV TOXN/NO3		191025A NO	1.
20	25 Oct 2019	18:34	CCB TOXN/NO3		191025A NO	1.
22	25 Oct 2019	18:38	BA01651W08 TOXN/NO3		191025A NO	1.
23	25 Oct 2019	18:41	BA01654W08 TOXN/NO3		191025A NO	1.
24	25 Oct 2019	18:43	BA01656W08 TOXN/NO3		191025A NO	1.
25	25 Oct 2019	18:45	BA01658W08 TOXN/NO3		191025A NO	1.
26	25 Oct 2019	18:47	BA01660W08 TOXN/NO3		191025A NO	1.
27	25 Oct 2019	18:49	BA01662W15 TOXN/NO3		191025A NO	1.
28	25 Oct 2019	18:50	BA01664W15 TOXN/NO3		191025A NO	1.
31	25 Oct 2019	18:53	CCV TOXN/NO3		191025A NO	1.
32	25 Oct 2019	18:54	CCB TOXN/NO3		191025A NO	1.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

04 November 2019

Libby Cheeseborough
APPL, Inc.
908 North Temperance Avenue
Clovis, CA 93611

RE: ARF: 90532

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

<u>Associated Work Order(s)</u>	<u>Associated SDG ID(s)</u>
19J0441	N/A

Shelly Fishel

Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila,
o=Analytical Resources, Inc., cn=Shelly
Fishel, email=shelly.fishel@arilabs.com
Date: 2019.11.04 11:44:00 -08'00'

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 in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The 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.



SUBCONTRACT ORDER

APPL, Inc.

ARF: 90532

19J0441

PO: 00-90532

SENDING LABORATORY:

APPL Labs
908 North Temperance Ave.
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422
Project Manager: Libby Cheeseborough (libby@applinc.com)


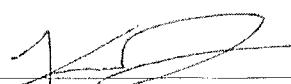
UK

RECEIVING LABORATORY:

Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168-3240
Phone: (206) 695-6214x
Fax:
DOD Expiration Date:

Comments: DOD QSM v5.1; 1 WEEK TAT; Tier IV; AECOM v 2.5.3 EDD; please email report and EDD to Libby

	APPL ID	Sample ID	LOC ID	Matrix	Collected	Analysis	Price
1.	BA01651	ERH912	RHMW02	Water	10/22/19 08:35	TOC by 9060A	
2.	BA01654	ERH915	RHMW03	Water	10/21/19 14:00	TOC by 9060A	
3.	BA01656	ERH919	RHMW05	Water	10/21/19 12:00	TOC by 9060A	
4.	BA01658	ERH921	RHMW06	Water	10/21/19 14:13	TOC by 9060A	
5.	BA01660	ERH923	RHMW07	Water	10/21/19 10:15	TOC by 9060A	
6.	BA01662	ERH942	RHMW14-D1	Water	10/21/19 10:30	TOC by 9060A	
7.	BA01664	ERH944	RHMW14-D2	Water	10/21/19 08:10	TOC by 9060A	

 10/24/19 1342
Released By Date Time
 10/25/19 1445
Received By Date Time

Released By Date Time Received By Date Time

Upon receipt, please email signed COC to APPL Inc.
To ensure timely payment, please include the PO number on your invoice.

SUBCONTRACT ORDER

APPL, Inc.

ARF: 90532

PO: 00-90532

SENDING LABORATORY:

APPL Labs
908 North Temperance Ave.
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422
Project Manager: Libby Cheeseborough (libby@applinc.com)

RECEIVING LABORATORY:

Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168-3240
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3.	BA01656	ERH919	RHMW05	Water	10/21/19 12:00	TOC by 9060A	
4.	BA01658	ERH921	RHMW06	Water	10/21/19 14:13	TOC by 9060A	
5.	BA01660	ERH923	RHMW07	Water	10/22/19 10:15	TOC by 9060A	
6.	BA01662	ERH942	RHMW14-D1	Water	10/21/19 10:30	DOC by 9060A	
				Water	10/21/19 10:30	TOC by 9060A	
7.	BA01664	ERH944	RHMW14-D2	Water	10/22/19 08:10	DOC by 9060A	
				Water	10/22/19 08:10	TOC by 9060A	

Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____

Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____

**Upon receipt, please email signed COC to APPL Inc.
To ensure timely payment, please include the PO number on your invoice.**



APPL, Inc.
908 North Temperance Avenue
Clovis CA, 93611

Project: ARF: 90532
Project Number: [none]
Project Manager: Libby Cheeseborough

Reported:
04-Nov-2019 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ERH912	19J0441-01	Water	22-Oct-2019 08:35	25-Oct-2019 14:45
ERH915	19J0441-02	Water	21-Oct-2019 14:00	25-Oct-2019 14:45
ERH919	19J0441-03	Water	21-Oct-2019 12:00	25-Oct-2019 14:45
ERH921	19J0441-04	Water	21-Oct-2019 14:13	25-Oct-2019 14:45
ERH923	19J0441-05	Water	21-Oct-2019 10:15	25-Oct-2019 14:45
ERH942	19J0441-06	Water	21-Oct-2019 10:30	25-Oct-2019 14:45
ERH944	19J0441-07	Water	21-Oct-2019 08:10	25-Oct-2019 14:45



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheesborough	Reported: 04-Nov-2019 11:27
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Work Order Case Narrative

Client: APPL, Inc.
Project: ARF: 90532
Work Order: 19J0441

Sample receipt

Samples as listed on the preceding page were received 25-Oct-2019 14:45 under ARI work order 19J0441. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Organic Carbon - EPA Method 9060A

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Dissolved Organic Carbon - EPA Method 9060A

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Sample specific QC was performed in association with sample ERH942 (ARI 19J0441-06) in analytical batch BHJ0954. The duplicate RPD was within control limits. The matrix spike/matrix spike duplicate percent recoveries and RPD were within control limits.



WORK ORDER

19J0441

Client: APPL, Inc.	Project Manager: Amanda Volgardsen
Project: ARF: 90532	Project Number: [none]

Preservation Confirmation

Container ID	Container Type		pH	
19J0441-01 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-01 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-02 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-02 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-03 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-03 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-04 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-04 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-05 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-05 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-06 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-06 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-06 C	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-06 D	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-07 A	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-07 B	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-07 C	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass
19J0441-07 D	VOA Vial, Amber, 40 mL	H2SO4	<2	Pass

JBW
Preservation Confirmed By

10/25/19
Date



Cooler Receipt Form

ARI Client: APPL Labs
 COC No(s): _____ (NA)
 Assigned ARI Job No: 19J0441

Project Name: ARF: 90532
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
 Tracking No: 1252 9850 7308 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1445 2.4 _____
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOOG20G

Cooler Accepted by: KD Date: 10/25/19 Time: 1445

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: Garbage bag
 Was sufficient ice used (if appropriate)? NA YES NO
 How were bottles sealed in plastic bags? Individually Grouped Not
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI NA
 Were the sample(s) split by ARI? YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSC Date: 10/25/19 Time: 1552 Labels checked by: JSC

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheeseborough	Reported: 04-Nov-2019 11:27
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ERH912
19J0441-01 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/22/2019 08:35
Instrument: TOC-LCSH Analyst: BF	Analyzed: 10/31/2019 23:54
Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-01 A
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection			Result	Units	Notes
			Limit	LOQ	LOD			
Total Organic Carbon		1	0.50	0.50	0.50	3.76	mg/L	



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheescborough	Reported: 04-Nov-2019 11:27
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ERH915
19J0441-02 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/21/2019 14:00
Instrument: TOC-LCSH Analyst: BF	Analyzed: 11/01/2019 01:20
Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-02 A
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection			Result	Units	Notes
			Limit	LOQ	LOD			
Total Organic Carbon		1	0.50	0.50	0.50	1.35	mg/L	



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheescborough	Reported: 04-Nov-2019 11:27
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ERH919
19J0441-03 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/21/2019 12:00
Instrument: TOC-LCSH Analyst: BF	Analyzed: 11/01/2019 01:49
Sample Preparation:	Extract ID: 19J0441-03 A
Preparation Method: No Prep Wet Chem	
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Total Organic Carbon		i	0.50	0.50	0.50	0.56	mg/L	



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheeseborough	Reported: 04-Nov-2019 11:27
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ERH921
19J0441-04 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/21/2019 14:13
Instrument: TOC-LCSH Analyst: BF	Analyzed: 11/01/2019 02:14
Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-04 A
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection			Result	Units	Notes
			Limit	LOQ	LOD			
Total Organic Carbon		1	0.50	0.50	0.50	< 0.50	mg/L	U



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheescborough	Reported: 04-Nov-2019 11:27
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ERH923
19J0441-05 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/21/2019 10:15
Instrument: TOC-LCSH Analyst: BF	Analyzed: 11/01/2019 02:47
Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-05 A
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	0.50	< 0.50	mg/L	U



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheescborough	Reported: 04-Nov-2019 11:27
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ERH942
19J0441-06 (Water)

Wet Chemistry

Method: EPA 9060A	Sampled: 10/21/2019 10:30
Instrument: TOC-LCSH Analyst: BF	Analyzed: 11/01/2019 03:12
Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-06 D
Preparation Batch: BHJ0952	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	0.50	< 0.50	mg/L	U

Sample Preparation: Preparation Method: No Prep Wet Chem	Extract ID: 19J0441-06 B
Preparation Batch: BHJ0954	Sample Size: 20 mL
Prepared: 31-Oct-2019	Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Dissolved Organic Carbon, Dissolved		1	0.50	0.50	0.50	0.52	mg/L	



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheeseborough	Reported: 04-Nov-2019 11:27
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ERH944
19J0441-07 (Water)

Wet Chemistry

Method: EPA 9060A
Instrument: TOC-LCSH Analyst: BF

Sampled: 10/21/2019 08:10
Analyzed: 11/01/2019 03:41

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BHJ0952 Sample Size: 20 mL
Prepared: 31-Oct-2019 Final Volume: 20 mL

Extract ID: 19J0441-07 A

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	0.50	1.31	mg/L	

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BHJ0954 Sample Size: 20 mL
Prepared: 31-Oct-2019 Final Volume: 20 mL

Extract ID: 19J0441-07 C

Analyte	CAS Number	Dilution	Detection Limit	LOQ	LOD	Result	Units	Notes
Dissolved Organic Carbon, Dissolved		1	0.50	0.50	0.50	< 0.50	mg/L	U



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheesborough	Reported: 04-Nov-2019 11:27
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Wet Chemistry - Quality Control

Batch BHJ0952 - No Prep Wet Chem

Instrument: TOC-LCSH Analyst: BF

QC Sample/Analyte	Detection Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHJ0952-BLK1)						Prepared: 31-Oct-2019 Analyzed: 31-Oct-2019 20:50					
Total Organic Carbon	ND	0.50	0.50	mg/L							U
LCS (BHJ0952-BS1)						Prepared: 31-Oct-2019 Analyzed: 31-Oct-2019 21:17					
Total Organic Carbon	19.39	0.50	0.50	mg/L	20.00		97.0	90-110			



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheeseborough	Reported: 04-Nov-2019 11:27
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Wet Chemistry - Quality Control

Batch BHJ0954 - No Prep Wet Chem

Instrument: TOC-LCSH Analyst: BF

QC Sample/Analyte	Detection Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHJ0954-BLK1)					Prepared: 31-Oct-2019 Analyzed: 01-Nov-2019 04:47						
Dissolved Organic Carbon, Dissolved	ND	0.50	0.50	mg/L							U
LCS (BHJ0954-BS1)					Prepared: 31-Oct-2019 Analyzed: 01-Nov-2019 05:10						
Dissolved Organic Carbon, Dissolved	18.93	0.50	0.50	mg/L	20.00		94.7	90-110			
Duplicate (BHJ0954-DUP1)					Source: 19J0441-06 Prepared: 31-Oct-2019 Analyzed: 01-Nov-2019 06:58						
Dissolved Organic Carbon, Dissolved	ND	0.50	0.50	mg/L		0.52					U
Matrix Spike (BHJ0954-MS1)					Source: 19J0441-06 Prepared: 31-Oct-2019 Analyzed: 01-Nov-2019 07:25						
Dissolved Organic Carbon, Dissolved	21.70	0.50	0.50	mg/L	20.00	0.52	106	75-125			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.											
Matrix Spike Dup (BHJ0954-MSD1)					Source: 19J0441-06 Prepared: 31-Oct-2019 Analyzed: 01-Nov-2019 07:49						
Dissolved Organic Carbon, Dissolved	22.19	0.50	0.50	mg/L	20.00	0.52	108	75-125	2.23	20	

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



APPL, Inc. 908 North Temperance Avenue Clovis CA, 93611	Project: ARF: 90532 Project Number: [none] Project Manager: Libby Cheesborough	Reported: 04-Nov-2019 11:27
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Certified Analyses included in this Report

Analyte	Certifications
EPA 9060A in Water	
Dissolved Organic Carbon	WADOE
Total Organic Carbon	DoD-ELAP,WADOE,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



APPL, Inc.
908 North Temperance Avenue
Clovis CA, 93611

Project: ARF: 90532
Project Number: [none]
Project Manager: Libby Cheeseborough

Reported:
04-Nov-2019 11:27

Notes and Definitions

- * Flagged value is not within established control limits.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



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

November 19, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 90551

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

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

Dear Ms. Pascua:

Eleven water samples were received October 24, 2019. Written results for the requested analyses are being provided on this November 19, 2019.

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

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

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

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60481245 CIV 0053 Red Hill Fuel Storage
APPL SDG 90551
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Method 8260B GRO Calibration Data	<u>697</u>
Method 8260B GRO Raw Data	<u>800</u>
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Method RSK-175 Raw Data	<u>888</u>

Metals Calibration Data	<u>913</u>
Metals Raw Data	<u>931</u>
Inorganic Analyses Calibration Data	<u>940</u>
Inorganic Analyses Raw Data	<u>962</u>

CASE NARRATIVE

Case Narrative

ARF: 90551

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Eleven water samples were received October 24, 2019, at 2.4°C, 1.9°C, 3.4°C, 4.3°C, 3.0°C and 3.6°C. The sample group was assigned Analytical Request Form (ARF) number 90551.

Sample Preparation and Analysis Information:

For the EPA 8011 analysis, the samples were extracted according to APPL SOP method MWE012.

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

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

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

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

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

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

For the EPA 6010C analysis, the sample was digested according to EPA method 3010A.

For the EPA 9060A, 300.0, 353.2, SM 2320B, SM 4500-SiD and SM 3500FeB analyses, the sample was prepared according to the methods.

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

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D 2MEE: In the 191028A LCS, 2MEE recovered above the 130% upper control limit
Corrective action: None, 2MEE was not detected in the associated samples.

Manual integrations were performed in accordance with APPL's SOP. The following analytes were manually integrated in some standards: 2MEE and 1,4-dichlorobenzene-D4(IS). Chromatograms of before and after manual integration are enclosed.

EPA 8270D SIM: Three RPDs exceeded the 20% limit in LCS/LCSD. No detects in the samples.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description	Prep DateTime	Analysis DateTime
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/28/2019 10:59:00 PM	10/28/2019 10:59:00 PM
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	RSK 175	METHANE BY RSK 175		
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	RSK 175	METHANE BY RSK 175		
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/28/2019 10:59:00 PM	10/28/2019 10:59:00 PM
90551	10/24/2019	ERH909	BA01774	10/22/2019 10:40:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 5:46:00 PM	10/29/2019 5:46:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/29/2019 3:10:39 PM	10/29/2019 3:10:39 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/24/2019 8:07:00 PM	10/24/2019 8:07:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	SM3500FeB	Ferrous Iron	10/24/2019 11:27:00 PM	10/24/2019 11:27:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/25/2019 6:51:00 PM	10/25/2019 6:51:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/29/2019 6:33:00 AM	10/29/2019 6:33:00 AM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 12:52:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 10:20:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8270D	EPA 8270D WATER		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	SW846 9060A	9060A TOC		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8270D	EPA 8270D WATER		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	SW846 9060A	9060A TOC		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 7:39:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 6:33:00 AM	10/29/2019 6:33:00 AM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 5:55:00 PM	10/29/2019 5:55:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 12:26:00 PM
90551	10/24/2019	ERH910	BA01775	10/22/2019 11:30:00 AM	WATER	SW846 9060A	9060A TOC	11/8/2019 6:10:00 PM	11/9/2019 6:00:00 AM
90551	10/24/2019	ERH926	BA01776	10/22/2019 12:23:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/28/2019 11:27:00 PM	10/28/2019 11:27:00 PM
90551	10/24/2019	ERH926	BA01776	10/22/2019 12:23:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH926	BA01776	10/22/2019 12:23:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/28/2019 11:27:00 PM	10/28/2019 11:27:00 PM
90551	10/24/2019	ERH926	BA01776	10/22/2019 12:23:00 PM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:01:00 PM	10/29/2019 6:01:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	SM 2320B	Wetlab 2320B - Water	10/29/2019 3:16:41 PM	10/29/2019 3:16:41 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/24/2019 7:37:36 PM	10/24/2019 7:37:36 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	SM3500FeB	Ferrous Iron	10/24/2019 11:28:00 PM	10/24/2019 11:28:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 353.2	EPA 353.2 - WATER	10/25/2019 6:52:00 PM	10/25/2019 6:52:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/31/2019 2:15:00 AM	10/31/2019 2:15:00 AM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 1:20:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 10:38:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 10:06:26 AM	10/25/2019 10:06:26 AM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	SM3500FeB	Ferrous Iron		

qryCOC_APPLCaseNarrativeReport

90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 300.0	Wetlab 300.0 - Water		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	SM3500FeB	Ferrous Iron		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 7:59:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/31/2019 2:15:00 AM	10/31/2019 2:15:00 AM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:05:00 PM	10/29/2019 6:05:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 12:48:00 PM
90551	10/24/2019	ERH927	BA01777	10/22/2019 12:59:00 PM	WATER	SW846 9060A	9060A TOC	11/8/2019 6:10:00 PM	11/9/2019 6:33:00 AM
90551	10/24/2019	ERH930	BA01778	10/23/2019 9:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/28/2019 11:55:00 PM	10/28/2019 11:55:00 PM
90551	10/24/2019	ERH930	BA01778	10/23/2019 9:00:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH930	BA01778	10/23/2019 9:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/28/2019 11:55:00 PM	10/28/2019 11:55:00 PM
90551	10/24/2019	ERH930	BA01778	10/23/2019 9:00:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:08:00 PM	10/29/2019 6:08:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/29/2019 3:22:58 PM	10/29/2019 3:22:58 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/24/2019 8:22:30 PM	10/24/2019 8:22:30 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	SM3500FeB	Ferrous Iron	10/24/2019 11:26:00 PM	10/24/2019 11:26:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/25/2019 6:55:00 PM	10/25/2019 6:55:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/29/2019 7:18:00 AM	10/29/2019 7:18:00 AM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 1:48:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 10:56:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 10:43:54 AM	10/25/2019 10:43:54 AM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 10:21:24 AM	10/25/2019 10:21:24 AM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 8:20:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 7:18:00 AM	10/29/2019 7:18:00 AM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:12:00 PM	10/29/2019 6:12:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 1:10:00 PM
90551	10/24/2019	ERH931	BA01779	10/23/2019 9:45:00 AM	WATER	SW846 9060A	9060A TOC	11/8/2019 6:10:00 PM	11/9/2019 7:06:00 AM
90551	10/24/2019	ERH934	BA01780	10/22/2019 2:10:00 PM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/29/2019 11:50:00 PM
90551	10/24/2019	ERH934	BA01780	10/22/2019 2:10:00 PM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/29/2019 4:39:00 AM	10/29/2019 4:39:00 AM
90551	10/24/2019	ERH934	BA01780	10/22/2019 2:10:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH934	BA01780	10/22/2019 2:10:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 4:39:00 AM	10/29/2019 4:39:00 AM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 12:10:00 AM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/29/2019 5:08:00 AM	10/29/2019 5:08:00 AM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 2:16:00 PM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 11:13:00 PM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 8:40:00 PM
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 5:08:00 AM	10/29/2019 5:08:00 AM

qryCOC_APPLCaseNarrativeReport

90551	10/24/2019	ERH935	BA01781	10/22/2019 2:20:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 1:32:00 PM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 12:30:00 AM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/29/2019 5:36:00 AM	10/29/2019 5:36:00 AM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 2:44:00 PM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 11:31:00 PM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 9:01:00 PM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 5:36:00 AM	10/29/2019 5:36:00 AM
90551	10/24/2019	ERH936	BA01782	10/22/2019 2:45:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 1:54:00 PM
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	8011	EPA 8011	10/31/2019 3:15:00 PM	10/31/2019 10:57:00 PM
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/29/2019 12:24:00 AM	10/29/2019 12:24:00 AM
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	8011	EPA 8011 (confirmation)		
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	8011	EPA 8011 (confirmation)		
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	8011	EPA 8011		
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	8011	EPA 8011		
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 12:24:00 AM	10/29/2019 12:24:00 AM
90551	10/24/2019	ERH950	BA01783	10/23/2019 7:00:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:17:00 PM	10/29/2019 6:17:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/29/2019 3:30:35 PM	10/29/2019 3:30:35 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/24/2019 8:15:00 PM	10/24/2019 8:15:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SM3500FeB	Ferrous Iron	10/24/2019 11:25:00 PM	10/24/2019 11:25:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/25/2019 6:56:00 PM	10/25/2019 6:56:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL	10/28/2019 9:52:00 AM	10/30/2019 1:53:46 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 12:50:00 AM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/29/2019 6:05:00 AM	10/29/2019 6:05:00 AM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 8:52:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/28/2019 11:10:00 AM	11/1/2019 11:49:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 10:13:54 AM	10/25/2019 10:13:54 AM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SW846 9060A	9060A DOC		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SW846 9060A	9060A DOC		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 9:21:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SW846 9060A	9060A DOC	11/5/2019 3:44:00 PM	11/5/2019 11:08:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/29/2019 6:05:00 AM	10/29/2019 6:05:00 AM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:21:00 PM	10/29/2019 6:21:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 2:17:00 PM
90551	10/24/2019	ERH951	BA01784	10/23/2019 7:40:00 AM	WATER	SW846 9060A	9060A TOC	11/8/2019 6:10:00 PM	11/9/2019 7:41:00 AM

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M11	Manual integration: integration does not follow baseline
M12	Manual integration: non-target peak interference
M13	Manual integration: to split a peak that was integrated as one peak by the computer.
M14	Manual integration: to integrate a split peak
M15	Manual integration: the whole peak or part of the peak was not integrated
M16	Manual integration: computer integrated wrong peak
M17	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons.
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

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

APPL - Analysis Request Form

90551

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 096,100,106,112,126
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 1 WEEK

Received by: LA 
 Date Received: 10/24/19 Time: 09:50
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): SEE CRF°C
 Color: VFRG/J-PrBlk/GB-GrnY
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: _____

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Wetlab: Nitrate by EPA 300 and 353.2
8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; 8011: EDB only; \$87DC53W5: report phenol ONLY
FR: upload final package to ftp site; please notify Margie.Pascua@aecom.com, scuenco@lab-data.com
trommelfanger@lab-data.com & jcanlas@lab-data.com
EDD: AECOM EQUIS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@




Sample Distribution:

GC: 6-\$87DC53W5, 6-\$87DMEEW5, 6-\$DOC53W5LIQ, 6-\$SIM53LIQ51, 5-\$8011
Extractions: 6- LIQ003, 6- LIQ005, 6- MWE2MEE, 4-MWE012
VOA: 6-\$86BTOTXDOD5W, 11-\$GASBL, 11-\$GRO86BW, 8-\$RSKMETH, 5-\$86BTOTXDCAW
Metals: 1-\$61CDOD5W(Ca,Mg,Mn,K,Na)
Wetlab: 4-\$232W(HCO3,CO3,ALK), 3-\$300W(NO3,CL,SO4), 4-\$35FE, 4-\$35OF, 4-\$TOCW53, 1-\$300W(NO3,BR,CL,F,SO4), 1-\$DOCW53
Other: 1-_M3010

Charges:









Invoice To:

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

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH909	LCSD BA01774W 	10/22/19 10:40	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH
2. ERH910	LCSD BA01775W 	10/22/19 11:30	\$232W(HCO3,CO3,ALK), \$300W(NO3,CL,SO4), \$35FE, \$35OF, \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH926	LCSD BA01776W 	10/22/19 12:23	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH

APPL - Analysis Request Form

90551

4. ERH927	LCSD	BA01777W 	10/22/19 12:59	\$232W(HCO3,CO3,ALK), \$300W(NO3,CL,SO4), \$35FE, \$35OF, \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
5. ERH930	LCSD	BA01778W 	10/23/19 09:00	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH
6. ERH931	LCSD	BA01779W 	10/23/19 09:45	\$232W(HCO3,CO3,ALK), \$300W(NO3,CL,SO4), \$35FE, \$35OF, \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
7. ERH934	LCSD	BA01780W 	10/22/19 14:10	\$8011, \$86BTOTXDCAW, \$GASBL, \$GRO86BW
8. ERH935	LCSD	BA01781W 	10/22/19 14:20	\$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51 -- see comments
9. ERH936	LCSD	BA01782W 	10/22/19 14:45	\$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$SIM53LIQ51 -- see comments
10. ERH950	LCSD	BA01783W 	10/23/19 07:00	\$8011, \$86BTOTXDCAW, \$GASBL, \$GRO86BW, \$RSKMETH
11. ERH951	LCSD	BA01784W 	10/23/19 07:40	\$232W(HCO3,CO3,ALK), \$300W(NO3,BR,CL,F,SO4), \$35FE, \$35OF, \$61CDOD5W(Ca,Mg,Mn,K,Na), \$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$DOCW53, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments

APPL Sample Receipt Form

ARF# 90551

Sample	Container Type	Count	p
BA01774	13 VOAs - HCL	4	NA
BA01775	3 PL 250mL	1	NA
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	NA
	17 Amber Liter	4	NA
	32 Clear VOA - H2SO4	2	NA
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	NA
BA01776	13 VOAs - HCL	4	NA
BA01777	3 PL 250mL	1	NA
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	NA
	17 Amber Liter	4	NA
	32 Clear VOA - H2SO4	2	NA
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	NA
BA01778	13 VOAs - HCL	4	NA
BA01779	3 PL 250mL	1	NA
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	NA
	17 Amber Liter	4	NA
	32 Clear VOA - H2SO4	2	NA
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	NA
BA01780	13 VOAs - HCL	4	NA
	15 VOAs - NP	2	NA
BA01781	13 VOAs - HCL	3	NA
	15 VOAs - NP	3	NA
	17 Amber Liter	4	NA
	40 500mL Amber, unprsvd	3	NA
BA01782	13 VOAs - HCL	3	NA
	15 VOAs - NP	3	NA
	17 Amber Liter	4	NA
	40 500mL Amber, unprsvd	3	NA
BA01783	13 VOAs - HCL	4	NA
	15 VOAs - NP	3	NA
BA01784	3 PL 250mL	3	NA
	6 PL 500mL - HNO3	1	1.7
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	NA
	15 VOAs - NP	3	NA
	17 Amber Liter	4	NA
	32 Clear VOA - H2SO4	4	NA
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	NA

Sample Container Type Count p



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

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number										Date Shipped: <u>MM/DD/YY</u>											
		Matrix			8280C BTEX, TPH-g	8280C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/c w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs		8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrrous Iron	353.2 Nitrate-Nitrite-N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	300.0 Bromide/Fluoride	3010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	Carrier: <u>FedEx</u>	Waybill No.:	Comments:
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil																		
Sample Identification	Location	Date Collected	Time Collected	Time Zone																			
ERH934	Trip Blank	10/22/19	1410	HST	6	X																	
ERH935	Field Blank	10/22/19	1420	HST	13	X																	
ERH936	Equip Blank	10/22/19	1445	HST	6	X																	See other cooler
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-15deg); position: absolute; top: 50%; left: 50%;"> JMM 10/23/19 </div>																							

Shuttle Temperature: <u>9.0/2.0/4.1, 1.5/1.9, 3.0/3.4</u>		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____					Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)				
Relinquished by sampler: <u>AECOM</u>	Date: <u>10/23/19</u>	Time: <u>1300</u>	Received by: _____	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Relinquished by: _____	Date: <u>10/24/19</u>	Time: <u>9:50</u>	Received at lab by: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Relinquished by: _____	Date: _____	Time: _____	Received at lab by: _____

IR @ 4.6/4.3 3.3/3.0
3.9/3.6



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CHAIN OF CUSTODY RECORD

C.O.C. 127

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

Project Name/Number CV18F0126 / 60571032		Sampler (Print)		Analysis Requested/Method Number												Date Shipped: <u>10/23/19</u>									
Purchase Order Number 102604		Sampler (Signature)		No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA 8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM220B Alkalinity	300.0 Nitrate, Sulfate, Chloride	800.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	8060A TOC	Carrier: <u>FedEx</u>	
Sample Identification		Location			Aq	Sed.	Soil																	Waybill No.:		Comments:
Date Collected		Time Collected		Time Zone																					
<u>ERH936</u>		<u>Equip Blank</u>		<u>10/23/19 1445</u>		<u>HST</u>		<u>7</u>	<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								<u>See other cooler for VOA's</u>

Shuttle Temperature:		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____				Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: <u>AECOM</u>	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
<u>Sidney Mahanaui</u>	<u>10/23/19</u>	<u>1300</u>							<u>10/24/19</u>	<u>950</u>	<u>[Signature]</u>



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 coc@applinc.com

C.O.C. 106

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

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number												Date Shipped:										
		Matrix			8280C BTEX, TPH-g	8280C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane		SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	8010 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	Carrier:	Waybill No.:	Comments:
Purchase Order Number	Sampler (Signature)	Aq	Sed.	Soil	No. of Containers																			
CV18F0126 / 60571032	G.M., C.S., E.B.																							
102604	MP for G.M., C.S., E.B.																							
Sample Identification	Location	Date Collected	Time Collected	Time Zone																				
ERH926	Trip Blank	10/22/19	1223	HST	4	X																		
ERH927	RHMW09	10/22/19	1259	HST	10	X				X	X	X	X	X	X	X	X	X	X					X
 G.M. 10/23/19 [Large diagonal line through the table] 																								

*Analyze TPH w/SGT only if TPH-d/o detected.
 TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)					
Relinquished by sampler: AECOM <i>Sidney Mahanay</i>	Date: <u>10/23/19</u> Time: <u>1300</u>	Received by: _____	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Relinquished by: _____	Date: <u>10/24/19</u>	Time: <u>950</u>	Received at lab by: <i>[Signature]</i>



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

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number													Date Shipped: MM/DD/YY												
		Purchase Order Number	Sampler (Signature)	No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs		8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	363.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	300.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Solids	9060A TOC	Carrier: FedEx	
Aq	Sed.				Soil	Comments:																					
CV18F0126 / 60571032	KL, MC, DH	102604	MP for KL, MC, DH	4	X			X								X											
ERH909	Trip Blank	10/22/19	1040	HST	4	X										X											
ERH910	RHMWOI	10/22/19	1130	HST	16	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<p><i>Sum</i> 10/23/19</p>																											

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: AECOM <i>Sidney Mahanay</i>	Date: <u>10/23/19</u> Time: <u>1400</u>	Received by:
Relinquished by:	Date: _____ Time: _____	Received by:
	Date: <u>10/24/19</u> Time: <u>950</u>	Received at lab by: <i>[Signature]</i>



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Report to: PLEASE PRINT
Company Name: AECOM Phone: 808-356-5373
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Margie Pascua
Email: margie.pascua@aecom.com

Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-529-7249
Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950
Attn: Mary Basano
Email: mary.basano@aecom.com; usapimaging@aecom.com

Project Name/Number CV18F0126 / 60571032	Sampler (Print) MH, BL, JF		Analysis Requested/Method Number												Date Shipped:													
	Purchase Order Number 102604	Sampler (Signature) MP for MH, BL, JF	No. of Containers	Matrix			8280C BTEX, TPH-g	8280C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/c w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	800.0 Bromide/Fluoride	8010 Total Calcium Magnesium	SM5600 Total & Dissolved Silica	9060A TOC	9060B DOC	Carrier: FedEx	Waybill No.:	Comments:	
Sample Identification	Location	Date Collected	Time Collected	Time Zone	Aq	Sed.	Soil																					
ERH 950	Trip Blank	10/23/19	0700	HST	7	X									X													
ERH 951	RHMW4-05	10/23/19	0740	HST	24	X									X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>SWI 10/23/19</i>																												

*Analyze TPH w/SGT only if TPH-d/o detected.
TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature: Turnaround Requested: Check one
 Standard 2-3 wk One week 3 days 24/48 Hrs. Other: _____

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

Relinquished by sampler: AECOM
 Relinquished by: *Sidney Mahanay* Date: 10/23/19 Time: 1300
 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: 10/24/19 Time: 950
 Received by: _____ Date: _____ Time: _____



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--	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number														Date Shipped: #/##/##								
		Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrrous Iron	363.2 Nitrate-Nitrite N		SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	500.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, Ni	SM4500 Total & Dissolved Silica	9060A TOC	Carrier: FedEx	Waybill No.:	Comments:
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil																			
Sample Identification	Location	Date Collected	Time Collected	Time Zone																				
CV18F0126 / 60571032	KL, MC, MM																							
102604	MP for KL, MC, MM																							
ERH930	Tip Blank	10/23/19	9:00	HST	4	X			X															
ERH931	DWDFMWDI	10/23/19	0745	HST	10	X			X	X*	X	X	X	X	X	X	X	X	X					
Sum 10/23/19																								

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: AECOM <i>Sidney Mahanay</i>	Date: <u>10/23/19</u> Time: <u>1300</u>	Received by: _____ Date: _____ Time: _____
Relinquished by:	Date: _____ Time: _____	Received by: _____ Date: <u>10/24/19</u> Time: <u>950</u>

COOLER RECEIPT FORM

ARF: 90551

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 10/24/19

2) Coolers: Number of Coolers: 6

3) YES Were custody seals present and intact? How many? 12 Name/Date on seal? See Below

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

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

6) YES Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R5 CF: +0.4°C, IR Gun CF:-0.3°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 2.0/2.4 2: 1.5/1.9 3: 3.0/3.4 4: 4.6/4.3 5: 3.3/3.0 6: 3.9/3.6 7: 8: 9: 10: 11: 12:

Chain of custody:

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

Sample Labels:

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

Sample Containers:

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

If yes, the following were received with air bubbles: Larger than a pea: BA01778W04 Smaller than a pea: BA01774W04,BA01775W06,BA01776W03-4,BA01779W04,BA01781W01-6,BA01782W01-6,BA01783W04

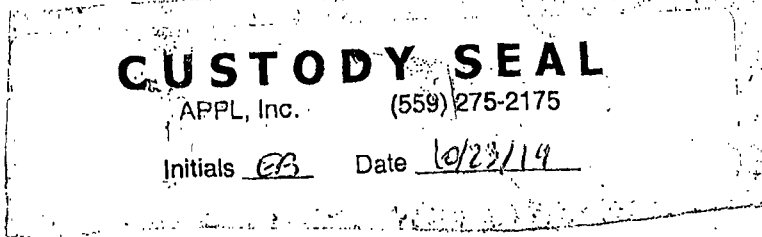
Preservation Hold time:

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

pH strip lot number: 90B2130 Lab notified if pH was not adequate:

Notes/Deficiencies:

One container for sample ERH930 and one container for ERH931 did not have time written on them.



Personnel receiving samples: AA Second reviewer: AA Personnel labeling samples: AD Project manager notified: AA/AD Date/Time of notification 10/25/19 Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH934
Sample Collection Date: 10/22/19

APPL ID: BA01780
QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/29/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	101	70-132			%	10/28/19	10/29/19

Quant Method: 8011917A.M
Run #: 1025077
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 11/05/19 9:49:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH935

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01781

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	99.1	70-132			%	10/28/19	10/30/19

Quant Method: 8011917A.M
Run #: 1025078
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 11/05/19 9:49:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH936

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01782

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	100	70-132			%	10/28/19	10/30/19

Quant Method: 8011917A.M
Run #: 1025079
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 11/05/19 9:49:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

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Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH950
Sample Collection Date: 10/23/19

ARF: 90551
APPL ID: BA01783
QCG: #8011-191031A-246759

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/31/19	10/31/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	102	70-132			%	10/31/19	10/31/19

Quant Method: 8011917A.M
Run #: 1025109
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 11/05/19 9:49:18 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM

1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH951

Sample Collection Date: 10/23/19

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01784

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	105	70-132			%	10/28/19	10/30/19

Quant Method: 8011917A.M
Run #: 1025080
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 11/05/19 9:49:18 AM

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

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH910
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01775
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	97.3	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	99.7	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107006
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH927
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01777
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	91.5	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	95.7	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107007
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01779
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	106	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	98.0	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107008
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH935
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01781
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	91.7	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	96.0	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107009
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH936
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01782
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	99.4	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	97.5	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107010
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH951
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01784
QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-e	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	110	60-142			%	10/29/19	11/07/19
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	95.7	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107011
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/19/19 5:50:04 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH910

Sample Collection Date: 10/22/19

ARF: 90551

APPL ID: BA01775

QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	93.2	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	110	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L166
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:21 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH927

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01777

QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	87.1	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	104	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L167
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:21 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01779
QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	89.9	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	106	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L168
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:21 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH935

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01781

QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	94.2	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	108	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L169
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:22 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH936

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01782

QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	92.4	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	110	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L170
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:22 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH951
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01784
QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	90.9	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	108	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L171
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:10:22 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH910

Sample Collection Date: 10/22/19

ARF: 90551

APPL ID: BA01775

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	90.5	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	80.7	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	105	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	104	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	112	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	91.8	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y199
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:44 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH927

Sample Collection Date: 10/22/19

ARF: 90551

APPL ID: BA01777

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	83.8	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	77.6	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	81.5	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	98.4	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	87.9	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	86.4	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y200
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH931

APPL ID: BA01779

Sample Collection Date: 10/23/19

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	84.9	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	77.1	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	77.2	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	90.2	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	82.8	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	85.0	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y201
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551
APPL ID: BA01781
QCG: #87DC5-191029A-246900

Sample ID: ERH935

Sample Collection Date: 10/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	89.7	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	81.6	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	99.0	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	100	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	105	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	93.4	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y202
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551
APPL ID: BA01782
QCG: #87DC5-191029A-246900

Sample ID: ERH936

Sample Collection Date: 10/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	86.3	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	78.0	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	87.9	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	92.0	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	93.5	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	89.0	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y203
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH951

APPL ID: BA01784

Sample Collection Date: 10/23/19

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	81.7	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	74.7	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	92.9	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	91.1	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	98.4	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	83.1	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y216
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH910

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01775

QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L033
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:15 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH927

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01777

QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L034
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:16 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01779
QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L035
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:16 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH935

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01781

QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L036
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:16 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH936

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01782

QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L037
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:16 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH951

Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01784

QCG: #87DME-191028A-246839

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L038
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/06/19 11:19:16 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH909
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01774
QCG: #86BTO-191028BL1-246522

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	10/28/19	10/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/28/19	10/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	101	80-119			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	89-112			%	10/28/19	10/28/19

Quant Method: L1023W.M
Run #: 1028L28
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:53:11 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH910

APPL ID: BA01775

Sample Collection Date: 10/22/19

QCG: #86BTO-191028BL1-246522

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	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.2	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	105	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L44
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:53:11 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
 1001 Bishop Street, Suite 1600
 Honolulu, HI 96813

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH926

APPL ID: BA01776

Sample Collection Date: 10/22/19

QCG: #86BTO-191028BL1-246522

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	10/28/19	10/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/28/19	10/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.3	85-114			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	102	80-119			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	104	89-112			%	10/28/19	10/28/19

Quant Method: L1023W.M
Run #: 1028L29
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:53:11 PM
 APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551
APPL ID: BA01777
QCG: #86BTO-191030AL-246610

Sample ID: ERH927

Sample Collection Date: 10/22/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/31/19	10/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	113	81-118			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	102	80-119			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	106	89-112			%	10/31/19	10/31/19

Quant Method: L1023W.M
Run #: 1030L27
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

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

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH930

APPL ID: BA01778

Sample Collection Date: 10/23/19

QCG: #86BTO-191028BL1-246522

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	10/28/19	10/28/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/28/19	10/28/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/28/19	10/28/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	108	81-118			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	101	80-119			%	10/28/19	10/28/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	106	89-112			%	10/28/19	10/28/19

Quant Method: L1023W.M
Run #: 1028L30
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:53:11 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH931

APPL ID: BA01779

Sample Collection Date: 10/23/19

QCG: #86BTO-191028AT1-246629

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	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	100.0	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.3	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	98.4	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.2	89-112			%	10/29/19	10/29/19

Quant Method: T1023W.M
Run #: 1028T34
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:53:11 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90551

Sample ID: ERH934

APPL ID: BA01780

Sample Collection Date: 10/22/19

QCG: #86BTO-191028BL-246520

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/29/19	10/29/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	107	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	100	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	102	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	109	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L40
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:51:51 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90551

Sample ID: ERH935

APPL ID: BA01781

Sample Collection Date: 10/22/19

QCG: #86BTO-191028BL-246520

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/29/19	10/29/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	111	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.1	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	101	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L41
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:51:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90551

Sample ID: ERH936

APPL ID: BA01782

Sample Collection Date: 10/22/19

QCG: #86BTO-191028BL-246520

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/29/19	10/29/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	110	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.3	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	105	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L42
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:51:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551
APPL ID: BA01783
QCG: #86BTO-191028BL-246520

Sample ID: ERH950
Sample Collection Date: 10/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/29/19	10/29/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	111	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.4	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	101	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	106	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L31
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:51:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90551

Sample ID: ERH951

APPL ID: BA01784

Sample Collection Date: 10/23/19

QCG: #86BTO-191028BL-246520

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/29/19	10/29/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	109	81-118			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.9	85-114			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	104	80-119			%	10/29/19	10/29/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	89-112			%	10/29/19	10/29/19

Quant Method: L1023W.M
Run #: 1028L43
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:51:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH909

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01774

QCG: #GRO86-191028BL-246527

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	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	10/28/19	10/28/19

Quant Method: LGAS1026.M
Run #: 1028L28
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:09 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH910
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01775
QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.2	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L44
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH926
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01776
QCG: #GRO86-191028BL-246527

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	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.3	85-114			%	10/28/19	10/28/19

Quant Method: LGA\$1026.M
Run #: 1028L29
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH927
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01777
QCG: #GRO86-191030AL-246612

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	10/31/19	10/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/31/19	10/31/19

Quant Method: LGAS1026.M
Run #: 1030L27
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH930

Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01778

QCG: #GRO86-191028BL-246527

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	10/28/19	10/28/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	10/28/19	10/28/19

Quant Method: LGAS1026.M
Run #: 1028L30
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01779
QCG: #GRO86-191028AT-246628

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.3	85-114			%	10/29/19	10/29/19

Quant Method: TGAS1026.M
Run #: 1028T34
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH934

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01780

QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	100	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L40
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH935
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01781
QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.1	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L41
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH936

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01782

QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.3	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L42
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH950
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01783
QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	99.4	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L31
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH951
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01784
QCG: #GRO86-191028BL-246527

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	10/29/19	10/29/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.9	85-114			%	10/29/19	10/29/19

Quant Method: LGAS1026.M
Run #: 1028L43
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:59:10 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH909

Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01774

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R07
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH910

Sample Collection Date: 10/22/19

ARF: 90551

APPL ID: BA01775

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	300	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R08
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH926

APPL ID: BA01776

Sample Collection Date: 10/22/19

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R09
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH927
Sample Collection Date: 10/22/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01777
QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R10
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90551

Sample ID: ERH930

APPL ID: BA01778

Sample Collection Date: 10/23/19

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R11
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551
APPL ID: BA01779
QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R12
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90551

Sample ID: ERH950

APPL ID: BA01783

Sample Collection Date: 10/23/19

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R13
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH951

Sample Collection Date: 10/23/19

ARF: 90551

APPL ID: BA01784

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R14
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 10/29/19 7:12:42 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

Metals Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH951

Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

APPL ID: BA01784

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6010C/3010A	CALCIUM (CA)	10300	1000	75.0	27.5	ug/L	1	10/28/19	10/30/19
6010C/3010A	MAGNESIUM (MG)	14700	500	30.0	12.9	ug/L	1	10/28/19	10/30/19
6010C/3010A	MANGANESE (MN)	64.1	10.0	4.00	1.23	ug/L	1	10/28/19	10/30/19
6010C/3010A	POTASSIUM (K)	620 J	3000	500.0	220.0	ug/L	1	10/28/19	10/30/19
6010C/3010A	SODIUM (NA)	39000	5000	500.0	111.1	ug/L	1	10/28/19	10/30/19

J = Estimated value.

Printed: 10/31/19 2:13:53 PM
APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

Sample ID: ERH910
Sample Collection Date: 10/22/19

APPL ID: BA01775
ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	41.1	1.0	0.20	0.08	mg/L	1	10/24/19	10/24/19
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	1	10/24/19	10/24/19
EPA 300.0	SULFATE	4.3	1.0	0.20	0.09	mg/L	1	10/24/19	10/24/19

Printed: 11/19/19 4:50:41 PM

APPL-F1-SC-NoMG-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH927

Sample Collection Date: 10/22/19

APPL ID: BA01777

ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	1.9	0.5	0.18	0.04	mg/L	1	10/24/19	10/24/19
EPA 300.0	SULFATE	16.1	1.0	0.20	0.09	mg/L	1	10/24/19	10/24/19
EPA 300.0	CHLORIDE	49.6	2.0	0.40	0.16	mg/L	2	10/25/19	10/25/19

Printed: 11/19/19 4:50:41 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH931
Sample Collection Date: 10/23/19

APPL ID: BA01779
ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	NITRATE	3.3	0.5	0.18	0.04	mg/L	1	10/24/19	10/24/19
EPA 300.0	CHLORIDE	1070	50.0	10.00	4.00	mg/L	50	10/25/19	10/25/19
EPA 300.0	SULFATE	358	10.0	2.00	0.90	mg/L	10	10/25/19	10/25/19

Printed: 11/19/19 4:50:41 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH951
Sample Collection Date: 10/23/19

APPL ID: BA01784
ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	BROMIDE	0.18 J	0.5	0.16	0.05	mg/L	1	10/24/19	10/24/19
EPA 300.0	FLUORIDE	0.09 U	0.1	0.09	0.08	mg/L	1	10/24/19	10/24/19
EPA 300.0	NITRATE	1.3	0.5	0.18	0.04	mg/L	1	10/24/19	10/24/19
EPA 300.0	SULFATE	9.4	1.0	0.20	0.09	mg/L	1	10/24/19	10/24/19
EPA 300.0	CHLORIDE	49.8	2.0	0.40	0.16	mg/L	2	10/25/19	10/25/19

J = Estimated value.

Printed: 11/19/19 4:50:41 PM
APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH910

Sample Collection Date: 10/22/19

APPL ID: BA01775

ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.090 U	0.10	0.090	0.028	mg/L	1	10/25/19	10/25/19
SM 2320B	BICARBONATE AS CaCO ₃	78.3	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	78.3	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM3500FeB	FERROUS IRON	0.44 J	1.0	0.32	0.16	mg/L	1	10/24/19	10/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.86 J	0.93	0.350	0.130	mg/L	1	11/08/19	11/09/19

J = Estimated value.

Printed: 11/19/19 4:52:29 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH927

Sample Collection Date: 10/22/19

APPL ID: BA01777

ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.48	0.10	0.090	0.028	mg/L	1	10/25/19	10/25/19
SM 2320B	BICARBONATE AS CaCO ₃	54.6	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	54.6	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/24/19	10/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.33 J	0.93	0.350	0.130	mg/L	1	11/08/19	11/09/19

J = Estimated value.

Printed: 11/19/19 4:52:29 PM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH931

Sample Collection Date: 10/23/19

APPL ID: BA01779

ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	2.0	0.10	0.090	0.028	mg/L	1	10/25/19	10/25/19
SM 2320B	BICARBONATE AS CaCO ₃	153	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	153	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/24/19	10/24/19
SW846 9060A	TOTAL ORGANIC CARBON	0.72 J	0.93	0.350	0.130	mg/L	1	11/08/19	11/09/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH951

Sample Collection Date: 10/23/19

APPL ID: BA01784

ARF: 90551

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.30	0.10	0.090	0.028	mg/L	1	10/25/19	10/25/19
SM 2320B	BICARBONATE AS CaCO ₃	59.0	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	59.0	2.0	1.70	0.85	mg/L	1	10/29/19	10/29/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/24/19	10/24/19
SW846 9060A	DISSOLVED ORGANIC CARB	0.53 J	0.93	0.350	0.130	mg/L	1	11/05/19	11/05/19
SW846 9060A	TOTAL ORGANIC CARBON	0.43 J	0.93	0.350	0.130	mg/L	1	11/08/19	11/09/19

J = Estimated value.

Printed: 11/19/19 4:52:29 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

8011

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Herbie

APPL ID.	Client Sample No.	SURROGATE: 1,3-DIBROMOPROPANE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191028A-BLK	Blank	70-132	104				
191028A-LCS	Lab Control Spike	70-132	110				
191028A-LCSD	Lab Control SpikeD	70-132	109				
BA01780	ERH934	70-132	101				
BA01781	ERH935	70-132	99.1				
BA01782	ERH936	70-132	100				
BA01784	ERH951	70-132	105				

Comments: Batch: #8011-191028A

8011

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER

SDG No: 90551
Date Analyzed: 10/31/19
Instrument: Herbie

APPL ID.	Client Sample No.	SURROGATE: 1,3-DIBROMOPROPANE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191031A-BLK	Blank	70-132	94.0				
191031A-LCS	Lab Control Spike	70-132	106				
191031A-LCSD	Lab Control SpikeD	70-132	105				
BA01783	ERH950	70-132	102				

Comments: Batch: #8011-191031A

8011

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191028A-BLK

SDG No: 90551
Date Analyzed: 10/29/19
Instrument: Herbie
Time Analyzed: 2049

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028A-BLK	Blank	1025068	10/29/19 2049
191028A-LCS	Lab Control Spike	1025069	10/29/19 2109
191028A-LCSD	Lab Control SpikeD	1025070	10/29/19 2130
BA01780	ERH934	1025077	10/29/19 2350
BA01781	ERH935	1025078	10/30/19 0010
BA01782	ERH936	1025079	10/30/19 0030
BA01784	ERH951	1025080	10/30/19 0050

Comments: Batch: #8011-191028A

8011

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Herbie

Blank ID: 191031A-BLK

Time Analyzed: 2158

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-BLK	Blank	1025106	10/31/19 2158
191031A-LCS	Lab Control Spike	1025107	10/31/19 2218
191031A-LCSD	Lab Control SpikeD	1025108	10/31/19 2237
BA01783	ERH950	1025109	10/31/19 2257

Comments: Batch: #8011-191031A

Printed: 11/05/19 9:55:18 AM
Form 4, Blank Summary

Method Blank

EPA 8011

Blank Name/QCG: **191028W-01661 - 246589**
Batch ID: #8011-191028A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/29/19
BLANK	SURROGATE: 1,3-DIBROMOPRO	104	70-132			%	10/28/19	10/29/19

Quant Method: 8011917A.M
Run #: 1025068
Instrument: Herbie
Sequence: 191025
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 11/05/19 9:54:57 AM

Method Blank
EPA 8011

Blank Name/QCG: 191031W-01783 - 246759
Batch ID: #8011-191031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/31/19	10/31/19
BLANK	SURROGATE: 1,3-DIBROMOPRO	94.0	70-132			%	10/31/19	10/31/19

Quant Method: 8011917A.M
Run #: 1025106
Instrument: Herbie
Sequence: 191025
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 11/05/19 9:54:58 AM

8011

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191028A-LCS

SDG No: 90551
Date Analyzed: 10/29/19
Instrument: Herbie
Time Analyzed: 2109

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028A-BLK	Blank	1025068	10/29/19 2049
191028A-LCS	Lab Control Spike	1025069	10/29/19 2109
191028A-LCSD	Lab Control SpikeD	1025070	10/29/19 2130
BA01780	ERH934	1025077	10/29/19 2350
BA01781	ERH935	1025078	10/30/19 0010
BA01782	ERH936	1025079	10/30/19 0030
BA01784	ERH951	1025080	10/30/19 0050

Comments: Batch: #8011-191028A

8011

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Herbie

LCS ID: 191031A-LCS

Time Analyzed: 2218

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-BLK	Blank	1025106	10/31/19 2158
191031A-LCS	Lab Control Spike	1025107	10/31/19 2218
191031A-LCSD	Lab Control SpikeD	1025108	10/31/19 2237
BA01783	ERH950	1025109	10/31/19 2257

Comments: Batch: #8011-191031A

Printed: 11/05/19 9:55:19 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8011

APPL ID: 191028W-01661 LCS - 246589

Batch ID: #8011-191028A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
EDB	0.250	0.271	0.265	108	106	60-140	2.2	25
SURROGATE: 1,3-DIBROMOPROPANE (	0.250	0.275	0.273	110	109	70-132		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	8011917A.M	8011917A.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	10/29/19	10/29/19
Instrument :	Herbie	Herbie
Run :	1025069	1025070
Initials :	GAG	

Laboratory Control Spike Recoveries

EPA 8011

APPL ID: 191031W-01783 LCS - 246759

Batch ID: #8011-191031A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
EDB	0.250	0.257	0.265	103	106	60-140	3.1	25
SURROGATE: 1,3-DIBROMOPROPANE (	0.250	0.265	0.263	106	105	70-132		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	8011917A.M	8011917A.M
Extraction Date :	10/31/19	10/31/19
Analysis Date :	10/31/19	10/31/19
Instrument :	Herbie	Herbie
Run :	1025107	1025108
Initials :	GAG	

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER

SDG No: 90551
Date Analyzed: 11/07/19
Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	60-142	102		56-125	98.0	
191029A-LCS	Lab Control Spike	60-142	109		56-125	87.7	
191029A-LCSD	Lab Control SpikeD	60-142	115		56-125	88.7	
BA01775	ERH910	60-142	97.3		56-125	99.7	
BA01777	ERH927	60-142	91.5		56-125	95.7	
BA01779	ERH931	60-142	106		56-125	98.0	
BA01781	ERH935	60-142	91.7		56-125	96.0	
BA01782	ERH936	60-142	99.4		56-125	97.5	
BA01784	ERH951	60-142	110		56-125	95.7	

Comments: Batch: #DOC53-191029A

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/07/19

Matrix: WATER

Instrument: Apollo

Blank ID: 191029A-BLK

Time Analyzed: 1837

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1107003	11/07/19 1837
191029A-LCS	Lab Control Spike	1107004	11/07/19 1858
191029A-LCSD	Lab Control SpikeD	1107005	11/07/19 1918
BA01775	ERH910	1107006	11/07/19 1939
BA01777	ERH927	1107007	11/07/19 1959
BA01779	ERH931	1107008	11/07/19 2020
BA01781	ERH935	1107009	11/07/19 2040
BA01782	ERH936	1107010	11/07/19 2101
BA01784	ERH951	1107011	11/07/19 2121

Comments: Batch: #DOC53-191029A

Printed: 11/19/19 5:50:04 PM
Form 4, Blank Summary

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **191029W-01775 - 247044**
Batch ID: #DOC53-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
BLANK	SURROGATE: OCTACOSANE (S)	102	60-142			%	10/29/19	11/07/19
BLANK	SURROGATE: ORTHO-TERPHEN	98.0	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107003
Instrument: Apollo
Sequence: 191107
Initials: LPO

GC SC-Blank-REG MDLs-DOD
Printed: 11/19/19 5:50:02 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/07/19

Matrix: WATER

Instrument: Apollo

LCS ID: 191029A-LCS

Time Analyzed: 1858

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1107003	11/07/19 1837
191029A-LCS	Lab Control Spike	1107004	11/07/19 1858
191029A-LCSD	Lab Control SpikeD	1107005	11/07/19 1918
BA01775	ERH910	1107006	11/07/19 1939
BA01777	ERH927	1107007	11/07/19 1959
BA01779	ERH931	1107008	11/07/19 2020
BA01781	ERH935	1107009	11/07/19 2040
BA01782	ERH936	1107010	11/07/19 2101
BA01784	ERH951	1107011	11/07/19 2121

Comments: Batch: #DOC53-191029A

Printed: 11/19/19 5:50:04 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8015B TPH LIQ-LIQ

APPL ID: 191029W-01775 LCS - 247044

Batch ID: #DOC53-191029A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1100	1110	88.0	88.8	36-132	0.90	30
OIL (C24-C40)	1250	1290	1320	103	106	41-113	2.3	30
SURROGATE: OCTACOSANE (S)	75.0	81.8	86.4	109	115	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	65.8	66.5	87.7	88.7	56-125		

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0911.M	DOC0911.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/07/19	11/07/19
Instrument :	Apollo	Apollo
Run :	1107004	1107005
Initials :	LPO	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	39-114	86.3		58-120	103	
191029A-LCS	Lab Control Spike	39-114	87.5		58-120	100	
191029A-LCSD	Lab Control SpikeD	39-114	70.2		58-120	78.9	
BA01775	ERH910	39-114	93.2		58-120	110	
BA01777	ERH927	39-114	87.1		58-120	104	
BA01779	ERH931	39-114	89.9		58-120	106	
BA01781	ERH935	39-114	94.2		58-120	108	
BA01782	ERH936	39-114	92.4		58-120	110	
BA01784	ERH951	39-114	90.9		58-120	108	

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:10:46 PM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

Blank ID: 191029A-BLK

Time Analyzed: 1031

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1028L163	11/05/19 1031
191029A-LCS	Lab Control Spike	1028L164	11/05/19 1053
191029A-LCSD	Lab Control SpikeD	1028L165	11/05/19 1204
BA01775	ERH910	1028L166	11/05/19 1226
BA01777	ERH927	1028L167	11/05/19 1248
BA01779	ERH931	1028L168	11/05/19 1310
BA01781	ERH935	1028L169	11/05/19 1332
BA01782	ERH936	1028L170	11/05/19 1354
BA01784	ERH951	1028L171	11/05/19 1417

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:10:47 PM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **191029W-01775 - 246817**
Batch ID: #SIM53-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	SURROGATE: 2-METHYLNAPHT	86.3	39-114			%	10/29/19	11/05/19
BLANK	SURROGATE: FLUORANTHENE-	103	58-120			%	10/29/19	11/05/19

Quant Method:L1028.M
Run #:1028L163
Instrument:Linus
Sequence:L191028
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 11/05/19 5:10:20 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

LCS ID: 191029A-LCS

Time Analyzed: 1053

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1028L163	11/05/19 1031
191029A-LCS	Lab Control Spike	1028L164	11/05/19 1053
191029A-LCSD	Lab Control SpikeD	1028L165	11/05/19 1204
BA01775	ERH910	1028L166	11/05/19 1226
BA01777	ERH927	1028L167	11/05/19 1248
BA01779	ERH931	1028L168	11/05/19 1310
BA01781	ERH935	1028L169	11/05/19 1332
BA01782	ERH936	1028L170	11/05/19 1354
BA01784	ERH951	1028L171	11/05/19 1417

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:10:48 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 191029W-01775 LCS - 246817
 Batch ID: #SIM53-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	5.92	4.66	94.7	74.6	41-115	23.8 #	20
2-METHYLNAPHTHALENE	6.25	6.04	4.77	96.6	76.3	39-114	23.5 #	20
NAPHTHALENE	6.25	6.08	4.79	97.3	76.6	43-114	23.7 #	20
<hr/>								
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.47	4.39	87.5	70.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.28	4.93	100	78.9	58-120		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L1028.M	L1028.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/05/19	11/05/19
Instrument :	Linus	Linus
Run :	1028L164	1028L165
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1028L002.D

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Linus
Time Analyzed: 10:20

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	5 SIM 10/28/19(2)	1028L004.D	10/28/19 12:26
2	0.1 SIM 10/28/19	1028L005.D	10/28/19 12:51
3	0.2 SIM 10/28/19	1028L006.D	10/28/19 13:13
4	0.5 SIM 10/28/19	1028L007.D	10/28/19 13:35
5	1 SIM 10/28/19	1028L008.D	10/28/19 13:57
6	20 SIM 10/28/19	1028L009.D	10/28/19 14:19
7	50 SIM 10/28/19	1028L010.D	10/28/19 14:42
8	100 SIM 10/28/19	1028L011.D	10/28/19 15:04
9	SS SIM 10/28/19	1028L012.D	10/28/19 15:55
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.1% of mass 198	44.0
68 0 - 2.05% of mass 69	0.0
70 0 - 2% of mass 69	0.3
127 10 - 80% of mass 198	66.3
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.8
275 10 - 60% of mass 198	23.0
365 1 - 100% of mass 198	3.1
441 0.01 - 24% of mass 442	15.5
442 50 - 500% of mass 198	95.8
443 15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90551
Matrix: Water
ID: 1028L161.D

SDG No: 90551
Date Analyzed: 11/05/19
Instrument: Linus
Time Analyzed: 9:37

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1		5 SIM 10/28/19 (1)	1028L162.D	11/05/19 9:53
2	Blank	191029A BLK 1/800	1028L163.D	11/05/19 10:31
3	Lab Control Spike	191029A LCS-2 1/800	1028L164.D	11/05/19 10:53
4	Lab Control SpikeD	191029A LCSD-2 1/800	1028L165.D	11/05/19 12:04
5	ERH910	BA01775W11 1/800	1028L166.D	11/05/19 12:26
6	ERH927	BA01777W10 1/800	1028L167.D	11/05/19 12:48
7	ERH931	BA01779W11 1/800	1028L168.D	11/05/19 13:10
8	ERH935	BA01781W10 1/800	1028L169.D	11/05/19 13:32
9	ERH936	BA01782W10 1/800	1028L170.D	11/05/19 13:54
10	ERH951	BA01784W14 1/800	1028L171.D	11/05/19 14:17
11		5 SIM 10/28/19 (1)	1028L176.D	11/05/19 16:00
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51	9.95 - 80.1% of mass 198	47.1
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.3
127	10 - 80% of mass 198	61.5
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	22.1
365	1 - 100% of mass 198	3.2
441	0.01 - 24% of mass 442	17.4
442	50 - 500% of mass 198	86.3
443	15 - 24% of mass 442	19.0

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1028L162.D Date Analyzed: 5 Nov 19 9:53
 Instrument ID: Linus Time Analyzed: 5 Nov 19 9:53
 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	46666	4.27	18912	6.27	32761	7.98
UPPER LIMIT	93332	4.44	37824	6.44	65522	8.15
LOWER LIMIT	23333	4.10	9456	6.10	16381	7.81
SAMPLE NO.						
01 191029A BLK 1/800	44857	4.27	18050	6.27	31808	7.98
02 191029A LCS-2 1/800	43683	4.27	17918	6.27	31966	7.98
03 191029A LCSD-2 1/800	45280	4.27	18710	6.27	33144	7.99
04 BA01775W11 1/800	43104	4.27	17532	6.27	30868	7.98
05 BA01777W10 1/800	44191	4.27	18042	6.27	31579	7.98
06 BA01779W11 1/800	42885	4.27	17692	6.27	31299	7.99
07 BA01781W10 1/800	42367	4.29	17473	6.27	31316	7.99
08 BA01782W10 1/800	40776	4.27	16657	6.27	29841	7.99
09 BA01784W14 1/800	42510	4.27	17304	6.27	30670	7.99
10 5 SIM 10/28/19 (1)	42309	4.29	17180	6.27	30616	7.99
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): 1028L162.D Date Analyzed: 5 Nov 19 9:53
 Instrument ID: Linus Time Analyzed: 5 Nov 19 9:53
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12 HOUR STD	40179	11.10	42489	13.53		
UPPER LIMIT	80358	11.27	84978	13.70		
LOWER LIMIT	20090	10.93	21245	13.36		
SAMPLE NO.						
01 191029A BLK 1/800	38127	11.11	40362	13.53		
02 191029A LCS-2 1/800	38171	11.10	40236	13.53		
03 191029A LCSD-2 1/800	39090	11.11	40700	13.53		
04 BA01775W11 1/800	37527	11.10	40287	13.53		
05 BA01777W10 1/800	38532	11.10	40990	13.53		
06 BA01779W11 1/800	37974	11.10	40395	13.53		
07 BA01781W10 1/800	38162	11.10	39864	13.53		
08 BA01782W10 1/800	36787	11.11	38788	13.53		
09 BA01784W14 1/800	37733	11.11	39551	13.53		
10 5 SIM 10/28/19 (1)	37162	11.11	38169	13.53		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/5/2019

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	43-140	84.3		44-119	75.8	
191029A-LCS	Lab Control Spike	43-140	86.0		44-119	75.4	
191029A-LCSD	Lab Control SpikeD	43-140	90.8		44-119	79.7	
BA01775	ERH910	43-140	90.5		44-119	80.7	
BA01777	ERH927	43-140	83.8		44-119	77.6	
BA01779	ERH931	43-140	84.9		44-119	77.1	
BA01781	ERH935	43-140	89.7		44-119	81.6	
BA01782	ERH936	43-140	86.3		44-119	78.0	
BA01784	ERH951	43-140	81.7		44-119	74.7	

Comments: Batch: #87DC5-191029A

Printed: 11/19/2019 10:09:51 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/5/2019

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	19-119	88.8		44-120	87.3	
191029A-LCS	Lab Control Spike	19-119	86.4		44-120	81.6	
191029A-LCSD	Lab Control SpikeD	19-119	88.8		44-120	88.0	
BA01775	ERH910	19-119	105		44-120	104	
BA01777	ERH927	19-119	81.5		44-120	98.4	
BA01779	ERH931	19-119	77.2		44-120	90.2	
BA01781	ERH935	19-119	99.0		44-120	100	
BA01782	ERH936	19-119	87.9		44-120	92.0	
BA01784	ERH951	19-119	92.9		44-120	91.1	

Comments: Batch: #87DC5-191029A

Printed: 11/19/2019 10:09:51 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/5/2019

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	10-115	92.2		50-134	89.5	
191029A-LCS	Lab Control Spike	10-115	92.0		50-134	87.2	
191029A-LCSD	Lab Control SpikeD	10-115	94.4		50-134	88.0	
BA01775	ERH910	10-115	112		50-134	91.8	
BA01777	ERH927	10-115	87.9		50-134	86.4	
BA01779	ERH931	10-115	82.8		50-134	85.0	
BA01781	ERH935	10-115	105		50-134	93.4	
BA01782	ERH936	10-115	93.5		50-134	89.0	
BA01784	ERH951	10-115	98.4		50-134	83.1	

Comments: Batch: #87DC5-191029A

Printed: 11/19/2019 10:09:51 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

Blank ID: 191029A-BLK

Time Analyzed: 1127

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191029A-BLK	Blank	1030Y196	11/05/19 1127
191029A-LCS	Lab Control Spike	1030Y197	11/05/19 1155
191029A-LCSD	Lab Control SpikeD	1030Y198	11/05/19 1224
BA01775	ERH910	1030Y199	11/05/19 1252
BA01777	ERH927	1030Y200	11/05/19 1320
BA01779	ERH931	1030Y201	11/05/19 1348
BA01781	ERH935	1030Y202	11/05/19 1416
BA01782	ERH936	1030Y203	11/05/19 1444
BA01784	ERH951	1030Y216	11/05/19 2052

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:45:50 AM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: 191029W-01775 - 246900
Batch ID: #87DC5-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	84.3	43-140			%	10/29/19	11/05/19
BLANK	SURROGATE: 2-FLUORBIPHENY	75.8	44-119			%	10/29/19	11/05/19
BLANK	SURROGATE: 2-FLUOROPHENO	88.8	19-119			%	10/29/19	11/05/19
BLANK	SURROGATE: NITROBENZENE-	87.3	44-120			%	10/29/19	11/05/19
BLANK	SURROGATE: PHENOL-D6 (S)	92.2	10-115			%	10/29/19	11/05/19
BLANK	SURROGATE: TERPHENYL-D14 (	89.5	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y196
Instrument: Yoda
Sequence: Y191030
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 11/08/19 9:45:52 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

LCS ID: 191029A-LCS

Time Analyzed: 1155

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1030Y196	11/05/19 1127
191029A-LCS	Lab Control Spike	1030Y197	11/05/19 1155
191029A-LCSD	Lab Control Spiked	1030Y198	11/05/19 1224
BA01775	ERH910	1030Y199	11/05/19 1252
BA01777	ERH927	1030Y200	11/05/19 1320
BA01779	ERH931	1030Y201	11/05/19 1348
BA01781	ERH935	1030Y202	11/05/19 1416
BA01782	ERH936	1030Y203	11/05/19 1444
BA01784	ERH951	1030Y216	11/05/19 2052

Comments: Batch: #87DC5-191029A

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 191029W-01775 LCS - 246900
 Batch ID: #87DC5-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	57.6	58.9	92.2	94.2	10-115	2.2	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	215	227	86.0	90.8	43-140		
SURROGATE: 2-FLUOROBIPHENYL (S)	125	94.2	99.6	75.4	79.7	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	216	222	86.4	88.8	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	102	110	81.6	88.0	44-120		
SURROGATE: PHENOL-D6 (S)	250	230	236	92.0	94.4	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	109	110	87.2	88.0	50-134		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	Y1015NC.M	Y1015NC.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/05/19	11/05/19
Instrument :	Yoda	Yoda
Run :	1030Y197	1030Y198
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Soil
ID: 1015Y002.D

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Time Analyzed: 8:30

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	4ug/ml 8270 10/11/19	1015Y004.D	10/15/19 10:16
2	5ug/ml 8270 10/11/19	1015Y005.D	10/15/19 10:44
3	10ug/ml 8270 10/11/1	1015Y006.D	10/15/19 11:13
4	20ug/ml 8270 10/11/1	1015Y007.D	10/15/19 11:41
5	40ug/ml 8270 10/11/1	1015Y008.D	10/15/19 12:09
6	60ug/ml 8270 10/11/1	1015Y009.D	10/15/19 12:38
7	80ug/ml 8270 10/11/1	1015Y010.D	10/15/19 13:06
8	100ug/ml 8270 10/11/1	1015Y011.D	10/15/19 13:35
9	50ug/ml 8270 10/11/1	1015Y013.D	10/15/19 14:58
10	SS 8270 10/11/19	1015Y014.D	10/15/19 15:26
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	24.2
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.2
127 10 - 80% of mass 198	40.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.8
275 10 - 60% of mass 198	34.5
365 1 - 100% of mass 198	4.9
441 0.01 - 24% of mass 442	16.3
442 50 - 500% of mass 198	163.6
443 15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1030Y194.D

SDG No: _____
Date Analyzed: 11/05/19
Instrument: Yoda
Time Analyzed: 10:36

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		50ug/ml 8270 10/24/1	1030Y195.D	11/05/19 10:52
2		191029A BLK 1/800	1030Y196.D	11/05/19 11:27
3		191029A LCS-1 1/800	1030Y197.D	11/05/19 11:55
4		191029A LCSD-1 1/800	1030Y198.D	11/05/19 12:24
5		BA01775W11 1/800	1030Y199.D	11/05/19 12:52
6		BA01777W10 1/800	1030Y200.D	11/05/19 13:20
7		BA01779W11 1/800	1030Y201.D	11/05/19 13:48
8		BA01781W10 1/800	1030Y202.D	11/05/19 14:16
9		BA01782W10 1/800	1030Y203.D	11/05/19 14:44
10		BA01784W14 1/800	1030Y216.D	11/05/19 20:52
11		50ug/ml 8270 10/24/1	1030Y220.D	11/05/19 22:45
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.04% of mass 198	25.7
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.5
127 10 - 80% of mass 198	42.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	7.0
275 10 - 60% of mass 198	34.5
365 1 - 100% of mass 198	4.5
441 0.01 - 24% of mass 442	16.6
442 50 - 500% of mass 198	154.7
443 15 - 24% of mass 442	19.4

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1030Y195.D Date Analyzed: 5 Nov 19 10:52
 Instrument ID: Yoda Time Analyzed: 5 Nov 19 10:52
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)			
		AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD		174147		5.52		676049		6.95	
UPPER LIMIT		348294		5.69		1352098		7.12	
LOWER LIMIT		87074		5.35		338025		6.78	
SAMPLE									
NO.									
01	191029A BLK 1/800	140492		5.52		561979		6.94	
02	191029A LCS-1 1/800	141387		5.52		572016		6.95	
03	191029A LCSD-1 1/800	138377		5.52		529852		6.96	
04	BA01775W11 1/800	124716		5.52		488156		6.95	
05	BA01777W10 1/800	135799		5.52		508467		6.95	
06	BA01779W11 1/800	148533		5.52		561967		6.95	
07	BA01781W10 1/800	136200		5.52		528905		6.95	
08	BA01782W10 1/800	149058		5.52		558956		6.96	
09	BA01784W14 1/800	148035		5.52		579102		6.95	
10	50ug/ml 8270 10/24/19 (	165446		5.52		635668		6.95	
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): 1030Y195.D Date Analyzed: 5 Nov 19 10:52
 Instrument ID: Yoda Time Analyzed: 5 Nov 19 10:52
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		907962	10.70	1087990	13.78	1195400	15.67
UPPER LIMIT		1815924	10.87	2175980	13.95	2390800	15.84
LOWER LIMIT		453981	10.53	543995	13.61	597700	15.50
SAMPLE NO.							
01	191029A BLK 1/800	873218	10.70	972890	13.78	1125240	15.67
02	191029A LCS-1 1/800	828621	10.70	956790	13.79	1060390	15.67
03	191029A LCSD-1 1/800	831873	10.70	950487	13.79	1063530	15.67
04	BA01775W11 1/800	898255	10.70	976452	13.79	1128090	15.66
05	BA01777W10 1/800	930277	10.69	1010280	13.79	1158760	15.67
06	BA01779W11 1/800	966815	10.70	1047130	13.79	1174950	15.67
07	BA01781W10 1/800	896973	10.70	979136	13.78	1100920	15.66
08	BA01782W10 1/800	919476	10.70	1018130	13.79	1137500	15.66
09	BA01784W14 1/800	1009980	10.70	1100120	13.79	1223570	15.66
10	50ug/ml 8270 10/24/19 (	830093	10.70	972758	13.78	1066690	15.67
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/01/19

Matrix: WATER

Instrument: Linus

Blank ID: 191028A-BLK

Time Analyzed: 1748

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028A-LCS	Lab Control Spike	1030L017	11/01/19 1730
191028A-BLK	Blank	1030L018	11/01/19 1748
191028A-LCSD	Lab Control Spiked	1030L019	11/01/19 1807
BA01775	ERH910	1030L033	11/01/19 2220
BA01777	ERH927	1030L034	11/01/19 2238
BA01779	ERH931	1030L035	11/01/19 2256
BA01781	ERH935	1030L036	11/01/19 2313
BA01782	ERH936	1030L037	11/01/19 2331
BA01784	ERH951	1030L038	11/01/19 2349

Comments: Batch: #87DME-191028A

Printed: 11/06/19 11:19:44 AM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **191028W-01579 - 246839**
Batch ID: #87DME-191028A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	10/28/19	11/01/19

Quant Method: YMEE1030.M
Run #: 1030L018
Instrument: Linus
Sequence: L191030M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 11/06/19 11:19:14 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 11/01/19

Matrix: WATER

Instrument: Linus

LCS ID: 191028A-LCS

Time Analyzed: 1730

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028A-LCS	Lab Control Spike	1030L017	11/01/19 1730
191028A-BLK	Blank	1030L018	11/01/19 1748
191028A-LCSD	Lab Control Spiked	1030L019	11/01/19 1807
BA01775	ERH910	1030L033	11/01/19 2220
BA01777	ERH927	1030L034	11/01/19 2238
BA01779	ERH931	1030L035	11/01/19 2256
BA01781	ERH935	1030L036	11/01/19 2313
BA01782	ERH936	1030L037	11/01/19 2331
BA01784	ERH951	1030L038	11/01/19 2349

Comments: Batch: #87DME-191028A

Printed: 11/06/19 11:19:45 AM

Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8270D MODIFIED WATER

APPL ID: 191028W-01579 LCS - 246839
 Batch ID: #87DME-191028A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	110	97.2	138 #	122	30-130	12.4	20

= Recovery is outside QC limits.

Comments:

	<u>SPK</u>	<u>DUP</u>
Quant Method :	YMEE1030.M	YMEE1030.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	11/01/19	11/01/19
Instrument :	Linus	Linus
Run :	1030L017	1030L019
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1030L002.D

SDG No: _____
Date Analyzed: 10/31/19
Instrument: Linus
Time Analyzed: 9:39

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50 2MEE 4/30/19	1030L004.D	10/31/19 11:50
2	100 2MEE 4/30/19	1030L005.D	10/31/19 12:10
3	200 2MEE 4/30/19	1030L006.D	10/31/19 12:29
4	500 2MEE 4/30/19	1030L008.D	10/31/19 13:07
5	600 2MEE 4/30/19	1030L009.D	10/31/19 13:25
6	800 2MEE 4/30/19	1030L010.D	10/31/19 13:43
7	1000 2MEE 4/30/19	1030L011.D	10/31/19 14:02
8			
9			
10			
11			
12			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	47.5
68 0 - 2.04% of mass 69	0.0
70 0 - 2.04% of mass 69	0.6
127 10 - 80% of mass 198	64.9
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198.1	100.0
199 5 - 9% of mass 198	6.2
275 10 - 60% of mass 198	21.7
365 1 - 100% of mass 198	3.2
441 0.01 - 24% of mass 442	14.5
442 50 - 500% of mass 198.1	95.4
443 15 - 24% of mass 442	18.6

Form 5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90551
Matrix: Water
ID: 1030L014.D

SDG No: 90551
Date Analyzed: 11/01/19
Instrument: Linus
Time Analyzed: 15:17

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		500 2MEE 4/30/19	1030L015.D	11/01/19 16:15
2		SS 2MEE 11/1/19	1030L016.D	11/01/19 17:11
3	Lab Control Spike	191028A LCS-1 2/500	1030L017.D	11/01/19 17:30
4	Blank	191028A BLK 2/500	1030L018.D	11/01/19 17:48
5	Lab Control SpikeD	191028A LCSD-1 2/500	1030L019.D	11/01/19 18:07
6	ERH910	BA01775W07 2/500	1030L033.D	11/01/19 22:20
7	ERH927	BA01777W08 2/500	1030L034.D	11/01/19 22:38
8	ERH931	BA01779W08 2/500	1030L035.D	11/01/19 22:56
9	ERH935	BA01781W09 2/500	1030L036.D	11/01/19 23:13
10	ERH936	BA01782W07 2/500	1030L037.D	11/01/19 23:31
11	ERH951	BA01784W13 2/500	1030L038.D	11/01/19 23:49
12		500 2MEE 4/30/19	1030L039.D	11/02/19 0:07
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.04% of mass 198	50.2
68 0 - 2.04% of mass 69	0.0
70 0 - 2.04% of mass 69	0.7
127 10 - 80% of mass 198	65.2
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	7.0
275 10 - 60% of mass 198	22.3
365 1 - 100% of mass 198	3.1
441 0.01 - 24% of mass 442	18.5
442 50 - 500% of mass 198	81.1
443 15 - 24% of mass 442	19.7

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1030L015.D Date Analyzed: 1 Nov 19 16:15
 Instrument ID: Linus Time Analyzed: 1 Nov 19 16:15
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	892511	3.65	4064580	4.62	2071340	6.02
	UPPER LIMIT	1785022	3.82	8129160	4.79	4142680	6.19
	LOWER LIMIT	446256	3.48	2032290	4.45	1035670	5.85
	SAMPLE NO.						
01	SS 2MEE 11/1/19	966230	3.67	4151560	4.62	2209410	6.02
02	191028A LCS-1 2/500	707122	3.66	2888560	4.62	1352670	6.01
03	191028A BLK 2/500	805766	3.66	3426530	4.62	1574220	6.02
04	191028A LCSD-1 2/500	830353	3.66	3497760	4.62	1608720	6.02
05	BA01775W07 2/500	727465	3.66	2911050	4.61	1412010	6.01
06	BA01777W08 2/500	739954	3.66	2961760	4.61	1410570	6.01
07	BA01779W08 2/500	743333	3.66	2964800	4.61	1420470	6.01
08	BA01781W09 2/500	718075	3.66	2875420	4.61	1397060	6.01
09	BA01782W07 2/500	731928	3.66	2945350	4.61	1458040	6.01
10	BA01784W13 2/500	707416	3.66	2768350	4.61	1367250	6.01
11	500 2MEE 4/30/19	891531	3.67	3825840	4.62	1833840	6.01
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): 1030L015.D Date Analyzed: 1 Nov 19 16:15
 Instrument ID: Linus Time Analyzed: 1 Nov 19 16:15
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	3678190	7.23	3053820	9.41	2924480	10.61	
UPPER LIMIT	7356380	7.40	6107640	9.58	5848960	10.78	
LOWER LIMIT	1839095	7.06	1526910	9.24	1462240	10.44	
SAMPLE NO.							
01 SS 2MEE 11/1/19	4025810	7.23	2795620	9.40	3078420	10.59	
02 191028A LCS-1 2/500	2422740	7.22	1805290	9.39	2122420	10.58	
03 191028A BLK 2/500	2673080	7.22	2103490	9.39	2452800	10.58	
04 191028A LCSD-1 2/500	2770300	7.22	2134240	9.39	2443460	10.57	
05 BA01775W07 2/500	2747290	7.22	1848430	9.38	2120880	10.55	
06 BA01777W08 2/500	2724010	7.22	1904230	9.38	2121600	10.55	
07 BA01779W08 2/500	2802170	7.22	2175710	9.39	2097360	10.57	
08 BA01781W09 2/500	2664470	7.22	2088140	9.39	2038450	10.57	
09 BA01782W07 2/500	2804730	7.22	2035650	9.39	2189240	10.57	
10 BA01784W13 2/500	2753900	7.22	2024110	9.39	2177900	10.57	
11 500 2MEE 4/30/19	3287490	7.22	3160930	9.39	3110580	10.57	
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: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028AT1-LCS	Lab Control Spike	81-118	98.0		85-114	96.8	
191028AT1-LCSD	Lab Control Spiked	81-118	100		85-114	102	
191028AT1-BLK	Blank	81-118	100		85-114	95.1	
BA01779	ERH931	81-118	100.0		85-114	93.3	

Comments: Batch: #86BTO-191028AT

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER

SDG No: 90551
Date Analyzed: 10/28/19
Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028AT1-LCS	Lab Control Spike	80-119	99.2		89-112	97.6	
191028AT1-LCSD	Lab Control Spiked	80-119	103		89-112	100	
191028AT1-BLK	Blank	80-119	100		89-112	98.9	
BA01779	ERH931	80-119	98.4		89-112	95.2	

Comments: Batch: #86BTO-191028AT

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028BL-LCS	Lab Control Spike	81-118	107		85-114	114	
191028BL-LCSD	Lab Control SpikeD	81-118	108		85-114	114	
191028BL-BLK	Blank	81-118	108		85-114	103	
BA01783	ERH950	81-118	111		85-114	99.4	
BA01780	ERH934	81-118	107		85-114	100	
BA01781	ERH935	81-118	111		85-114	99.1	
BA01782	ERH936	81-118	110		85-114	99.3	
BA01784	ERH951	81-118	109		85-114	98.9	

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:51:58 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028BL-LCS	Lab Control Spike	80-119	97.2		89-112	107	
191028BL-LCSD	Lab Control Spiked	80-119	97.6		89-112	107	
191028BL-BLK	Blank	80-119	99.9		89-112	106	
BA01783	ERH950	80-119	101		89-112	106	
BA01780	ERH934	80-119	102		89-112	109	
BA01781	ERH935	80-119	101		89-112	103	
BA01782	ERH936	80-119	105		89-112	108	
BA01784	ERH951	80-119	104		89-112	108	

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:51:58 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028BL1-LCS	Lab Control Spike	81-118	107		85-114	114	
191028BL1-LCSD	Lab Control Spiked	81-118	108		85-114	114	
191028BL1-BLK	Blank	81-118	108		85-114	103	
BA01774	ERH909	81-118	109		85-114	102	
BA01776	ERH926	81-118	109		85-114	99.3	
BA01778	ERH930	81-118	108		85-114	104	
BA01775	ERH910	81-118	109		85-114	98.2	

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191028BL1-LCS	Lab Control Spike	80-119	97.2		89-112	107	
191028BL1-LCSD	Lab Control Spiked	80-119	97.6		89-112	107	
191028BL1-BLK	Blank	80-119	99.9		89-112	106	
BA01774	ERH909	80-119	101		89-112	103	
BA01776	ERH926	80-119	102		89-112	104	
BA01778	ERH930	80-119	101		89-112	106	
BA01775	ERH910	80-119	103		89-112	105	

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191030AL-LCS	Lab Control Spike	81-118	108		85-114	114	
191030AL-LCSD	Lab Control SpikeD	81-118	108		85-114	112	
191030AL-BLK	Blank	81-118	112		85-114	105	
BA01777	ERH927	81-118	113		85-114	104	

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191030AL-LCS	Lab Control Spike	80-119	95.6		89-112	110	
191030AL-LCSD	Lab Control Spiked	80-119	96.0		89-112	106	
191030AL-BLK	Blank	80-119	106		89-112	111	
BA01777	ERH927	80-119	102		89-112	106	

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:53:19 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Thor

Blank ID: 191028AT1-BLK

Time Analyzed: 0111

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028AT1-LCS	Lab Control Spike	1028T16	10/28/19 2250
191028AT1-LCSD	Lab Control SpikeD	1028T17	10/28/19 2318
191028AT1-BLK	Blank	1028T21	10/29/19 0111
BA01779	ERH931	1028T34	10/29/19 0718

Comments: Batch: #86BTO-191028AT

Printed: 10/31/19 1:53:14 PM

Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **191028W-01779 - 246629**
Batch ID: #86BTO-191028AT1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/29/19	10/29/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/29/19	10/29/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/29/19	10/29/19
BLANK	SURROGATE: 1,2-DICHLOROET	100	81-118			%	10/29/19	10/29/19
BLANK	SURROGATE: 4-BROMOFLUORO	95.1	85-114			%	10/29/19	10/29/19
BLANK	SURROGATE: DIBROMOFLUOR	100	80-119			%	10/29/19	10/29/19
BLANK	SURROGATE: TOLUENE-D8 (S)	98.9	89-112			%	10/29/19	10/29/19

Quant Method: T1023W.M
Run #: 1028T21
Instrument: Thor
Sequence: T191028
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:53:20 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

Blank ID: 191028BL-BLK

Time Analyzed: 2230

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028BL-LCS	Lab Control Spike	1028L22	10/28/19 2008
191028BL-LCSD	Lab Control SpikeD	1028L23	10/28/19 2036
191028BL-BLK	Blank	1028L27	10/28/19 2230
BA01783	ERH950	1028L31	10/29/19 0024
BA01780	ERH934	1028L40	10/29/19 0439
BA01781	ERH935	1028L41	10/29/19 0508
BA01782	ERH936	1028L42	10/29/19 0536
BA01784	ERH951	1028L43	10/29/19 0605

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:51:54 PM
Form 4, Blank Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

Blank ID: 191028BL1-BLK

Time Analyzed: 2230

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028BL1-LCS	Lab Control Spike	1028L22	10/28/19 2008
191028BL1-LCSD	Lab Control SpikeD	1028L23	10/28/19 2036
191028BL1-BLK	Blank	1028L27	10/28/19 2230
BA01774	ERH909	1028L28	10/28/19 2259
BA01776	ERH926	1028L29	10/28/19 2327
BA01778	ERH930	1028L30	10/28/19 2355
BA01775	ERH910	1028L44	10/29/19 0633

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:53:14 PM
Form 4, Blank Summary

Method Blank
EPA 8260B BTEX & 1,2-DCA WATER

Blank Name/QCG: **191028W-01784 - 246520**
 Batch ID: #86BTO-191028BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/28/19	10/28/19
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/28/19	10/28/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/28/19	10/28/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/28/19	10/28/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/28/19	10/28/19
BLANK	SURROGATE: 1,2-DICHLOROET	108	81-118			%	10/28/19	10/28/19
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/28/19	10/28/19
BLANK	SURROGATE: DIBROMOFLUOR	99.9	80-119			%	10/28/19	10/28/19
BLANK	SURROGATE: TOLUENE-D8 (S)	106	89-112			%	10/28/19	10/28/19

Quant Method:L1023W.M Run #: 1028L27 Instrument:Loki Sequence: 191023 Initials:DPO
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GC SC-Blank-REG MDLs-DOD
 Printed: 10/31/19 1:52:00 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Loki

Blank ID: 191030AL-BLK

Time Analyzed: 0050

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191030AL-LCS	Lab Control Spike	1030L19	10/30/19 2228
191030AL-LCSD	Lab Control SpikeD	1030L20	10/30/19 2257
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01777	ERH927	1030L27	10/31/19 0215

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:53:14 PM

Form 4, Blank Summary

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **191030W-01777 - 246610**

Batch ID: #86BTO-191030AL

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/31/19	10/31/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	SURROGATE: 1,2-DICHLOROET	112	81-118			%	10/31/19	10/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	105	85-114			%	10/31/19	10/31/19
BLANK	SURROGATE: DIBROMOFLUOR	106	80-119			%	10/31/19	10/31/19
BLANK	SURROGATE: TOLUENE-D8 (S)	111	89-112			%	10/31/19	10/31/19

Quant Method:L1023W.M
Run #:1030L24
Instrument:Loki
Sequence:191023
Initials:DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:53:20 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Thor

LCS ID: 191028AT1-LCS

Time Analyzed: 2250

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028AT1-LCS	Lab Control Spike	1028T16	10/28/19 2250
191028AT1-LCSD	Lab Control SpikeD	1028T17	10/28/19 2318
191028AT1-BLK	Blank	1028T21	10/29/19 0111
BA01779	ERH931	1028T34	10/29/19 0718

Comments: Batch: #86BTO-191028AT

Printed: 10/31/19 1:53:13 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 191028W-01779 LCS - 246629
 Batch ID: #86BTO-191028AT1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.76	9.93	97.6	99.3	79-120	1.7	20
ETHYLBENZENE	10.00	9.59	9.79	95.9	97.9	79-121	2.1	20
TOLUENE	10.00	10.0	10.0	100	100	80-121	0.0	20
XYLENES (TOTAL)	30.0	29.2	30.0	97.3	100	79-121	2.7	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	24.5	25.1	98.0	100	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.2	25.5	96.8	102	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.8	25.7	99.2	103	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	24.4	25.0	97.6	100	89-112		

Comments: _____

Primary	SPK	DUP
Quant Method :	T1023W.M	T1023W.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	10/28/19	10/28/19
Instrument :	Thor	Thor
Run :	1028T16	1028T17
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

LCS ID: 191028BL-LCS

Time Analyzed: 2008

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028BL-LCS	Lab Control Spike	1028L22	10/28/19 2008
191028BL-LCSD	Lab Control SpikeD	1028L23	10/28/19 2036
191028BL-BLK	Blank	1028L27	10/28/19 2230
BA01783	ERH950	1028L31	10/29/19 0024
BA01780	ERH934	1028L40	10/29/19 0439
BA01781	ERH935	1028L41	10/29/19 0508
BA01782	ERH936	1028L42	10/29/19 0536
BA01784	ERH951	1028L43	10/29/19 0605

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:51:53 PM
Form 4, LCS Summary

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

LCS ID: 191028BL1-LCS

Time Analyzed: 2008

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028BL1-LCS	Lab Control Spike	1028L22	10/28/19 2008
191028BL1-LCSD	Lab Control SpikeD	1028L23	10/28/19 2036
191028BL1-BLK	Blank	1028L27	10/28/19 2230
BA01774	ERH909	1028L28	10/28/19 2259
BA01776	ERH926	1028L29	10/28/19 2327
BA01778	ERH930	1028L30	10/28/19 2355
BA01775	ERH910	1028L44	10/29/19 0633

Comments: Batch: #86BTO-191028BL

Printed: 10/31/19 1:53:13 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX & 1,2-DCA WATER

APPL ID: 191028W-01784 LCS - 246520
 Batch ID: #86BTO-191028BL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	10.6	10.3	106	103	73-128	2.9	20
BENZENE	10.00	9.20	9.67	92.0	96.7	79-120	5.0	20
ETHYLBENZENE	10.00	11.9	11.8	119	118	79-121	0.84	20
TOLUENE	10.00	10.9	11.4	109	114	80-121	4.5	20
XYLENES (TOTAL)	30.0	32.1	31.5	107	105	79-121	1.9	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	26.7	27.0	107	108	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	28.5	28.4	114	114	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.3	24.4	97.2	97.6	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	26.8	26.8	107	107	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L1023W.M	L1023W.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	10/28/19	10/28/19
Instrument :	Loki	Loki
Run :	1028L22	1028L23
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

LCS ID: 191030AL-LCS

Time Analyzed: 2228

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL-LCS	Lab Control Spike	1030L19	10/30/19 2228
191030AL-LCSD	Lab Control SpikeD	1030L20	10/30/19 2257
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01777	ERH927	1030L27	10/31/19 0215

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:53:13 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX WATER

APPL ID: 191030W-01777 LCS - 246610
 Batch ID: #86BTO-191030AL

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.74	9.57	97.4	95.7	79-120	1.8	20
ETHYLBENZENE	10.00	12.1	11.8	121	118	79-121	2.5	20
TOLUENE	10.00	11.8	11.3	118	113	80-121	4.3	20
XYLENES (TOTAL)	30.0	33.4	32.4	111	108	79-121	3.0	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	26.9	27.1	108	108	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	28.4	28.0	114	112	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	23.9	24.0	95.6	96.0	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	27.4	26.5	110	106	89-112		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L1023W.M	L1023W.M
Extraction Date :	10/30/19	10/30/19
Analysis Date :	10/30/19	10/30/19
Instrument :	Loki	Loki
Run :	1030L19	1030L20
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 90551
 Matrix: Water
 ID: 1023L04.D

SDG No: 90551
 Date Analyzed: 10/23/19
 Instrument: Loki
 Time Analyzed: 17:01

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 10/2	1023L10.D	10/23/19 19:30
2	0.5ug/L VOC STD 10/2	1023L11.D	10/23/19 19:59
3	1.0ug/L VOC STD 10/2	1023L12.D	10/23/19 20:27
4	2.0ug/L VOC STD 10/2	1023L13.D	10/23/19 20:56
5	5.0ug/L VOC STD 10/2	1023L14.D	10/23/19 21:24
6	10ug/L VOC STD 10/23	1023L15.D	10/23/19 21:53
7	20ug/L VOC STD 10/23	1023L16.D	10/23/19 22:21
8	40ug/L VOC STD 10/23	1023L17.D	10/23/19 22:50
9	100ug/L VOC STD 10/2	1023L18.D	10/23/19 23:18
10	(SS)10ug/L VOC STD 1	1023L20.D	10/24/19 0:15
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>17.9</u>
75 30 - 60% of mass 95	<u>51.6</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.8</u>
173 0 - 2% of mass 174	<u>1.9</u>
174 50 - 200% of mass 95	<u>98.4</u>
175 5 - 9% of mass 174	<u>8.2</u>
176 94.95 - 101% of mass 174	<u>95.4</u>
177 5 - 9% of mass 176	<u>7.9</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90551
Matrix: Water
ID: 1028L20.D

SDG No: 90551
Date Analyzed: 10/28/19
Instrument: Loki
Time Analyzed: 19:11

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		191028B CCV 10ug/L	1028L21.D
2	Lab Control Spike	191028B LCS 10ug/L	1028L22.D
3	Lab Control SpikeD	191028B LCSD 10ug/L	1028L23.D
4	Blank	191028B BLK	1028L27.D
5	ERH909	BA01774W01	1028L28.D
6	ERH926	BA01776W01	1028L29.D
7	ERH930	BA01778W01	1028L30.D
8	ERH950	BA01783W01	1028L31.D
9	ERH934	BA01780W01	1028L40.D
10	ERH935	BA01781W01	1028L41.D
11	ERH936	BA01782W01	1028L42.D
12	ERH951	BA01784W01	1028L43.D
13	ERH910	BA01775W01	1028L44.D
14		Ending CCV 10ug/L 10	1028L45.D
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15.0 - 40.0% of mass 95	16.0
75 30.0 - 60.0% of mas 95	48.3
95 Base peak, 100% relative abundance	100.0
96 5.0 - 9.0% of mass 95	5.3
173 Less than 2.0% of mass 174	0.0
174 50.0 - 200.0% of mass 95	112.8
175 5.0 - 9.0% of mass 174	6.7
176 95.0 - 101.0% of mass 174	98.2
177 5.0 - 9.0% of mass 176	6.7

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90551
Matrix: Water
ID: 1030L18.D

SDG No: 90551
Date Analyzed: 10/30/19
Instrument: Loki
Time Analyzed: 22:00

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	191030 LCS 10ug/L	1030L19.D	10/30/19 22:28
2	Lab Control SpikeD	191030 LCSD 10ug/L	1030L20.D	10/30/19 22:57
3	Blank	191030 BLK	1030L24.D	10/31/19 0:50
4	ERH927	BA01777W03	1030L27.D	10/31/19 2:15
5		Ending CCV 10ug/L 10	1030L42.D	10/31/19 9:21
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50	15.0 - 40.0% of mass 95	<u>17.0</u>
75	30.0 - 60.0% of mas 95	<u>51.0</u>
95	Base peak, 100% relative abundance	<u>100.0</u>
96	5.0 - 9.0% of mass 95	<u>7.0</u>
173	Less than 2.0% of mass 174	<u>0.0</u>
174	50.0 - 200.0% of mass 95	<u>117.8</u>
175	5.0 - 9.0% of mass 174	<u>7.2</u>
176	95.0 - 101.0% of mass 174	<u>94.6</u>
177	5.0 - 9.0% of mass 176	<u>6.3</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90551
Matrix: Water
ID: 1023T00.D

SDG No: 90551
Date Analyzed: 10/23/19
Instrument: Thor
Time Analyzed: 16:48

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 10/2	1023T06.D	10/23/19 19:32
2	0.5ug/L VOC STD 10/2	1023T07.D	10/23/19 20:01
3	1.0ug/L VOC STD 10/2	1023T08.D	10/23/19 20:29
4	2.0ug/L VOC STD 10/2	1023T09.D	10/23/19 20:58
5	5.0ug/L VOC STD 10/2	1023T10.D	10/23/19 21:26
6	10ug/L VOC STD 10/23	1023T11.D	10/23/19 21:55
7	20ug/L VOC STD 10/23	1023T12.D	10/23/19 22:23
8	40ug/L VOC STD 10/23	1023T13.D	10/23/19 22:52
9	100ug/L VOC STD 10/2	1023T14.D	10/23/19 23:20
10	(SS)10ug/L VOC STD 1	1023T16.D	10/24/19 0:17
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>16.1</u>
75 30 - 60% of mass 95	<u>48.8</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.0</u>
173 0 - 2.05% of mass 174	<u>1.5</u>
174 50 - 200% of mass 95	<u>97.4</u>
175 5 - 9% of mass 174	<u>7.4</u>
176 95 - 101% of mass 174	<u>95.9</u>
177 5 - 9% of mass 176	<u>7.0</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 90551
 Matrix: Water
 ID: 1028T16.D

SDG No: 90551
 Date Analyzed: 10/28/19
 Instrument: Thor
 Time Analyzed: 21:53

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	Lab Control Spike	191028A CCV/LCS 10ug	1028T16.D	10/28/19 22:50
2	Lab Control SpikeD	191028A LCSD 10ug/L	1028T17.D	10/28/19 23:18
3	Blank	191028A BLK	1028T21.D	10/29/19 1:11
4	ERH931	BA01779W01	1028T34.D	10/29/19 7:18
5		Ending CCV 10ug/L 10	1028T37.D	10/29/19 8:43
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mas 95	49.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0
174	50.0 - 100.0% of mass 95	103.7
175	5.0 - 9.0% of mass 174	7.7
176	95.0 - 101.0% of mass 174	97.4
177	5.0 - 9.0% of mass 176	6.2

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1023L15.D Date Analyzed: 10/23/19
 Instrument ID: Loki Time Analyzed: 21:53
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		243072	5.43	224832	8.99	113088	11.54
UPPER LIMIT		486144	5.60	449664	9.16	226176	11.71
LOWER LIMIT		121536	5.26	112416	8.82	56544	11.37
SAMPLE NO.							
01	(SS)10ug/L VOC STD 1*	242176	5.43	211264	8.99	108216	11.53
02							
03							
04							
05							
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): 1028L21.D Date Analyzed: 10/28/19
 Instrument ID: Loki Time Analyzed: 19:39
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	295872	5.42	295104	8.99	165824	11.53
UPPER LIMIT	591744	5.59	590208	9.16	331648	11.70
LOWER LIMIT	147936	5.25	147552	8.82	82912	11.36
SAMPLE NO.						
01 191028B LCS 10ug/L	300864	5.43	290688	8.99	170880	11.53
02 191028B LCSD 10ug/L	289664	5.42	288256	8.99	163456	11.53
03 191028B BLK	283200	5.42	274752	8.99	138880	11.53
04 BA01774W01	277632	5.42	279616	8.99	138112	11.53
05 BA01776W01	283840	5.42	283904	8.99	136064	11.53
06 BA01778W01	277568	5.42	267584	8.99	135232	11.54
07 BA01783W01	278336	5.42	273536	8.99	130544	11.53
08 BA01780W01	266752	5.42	254528	8.99	124800	11.54
09 BA01781W01	267456	5.42	271680	8.99	125112	11.53
10 BA01782W01	268544	5.42	267136	8.99	129296	11.53
11 BA01784W01	272896	5.42	264896	8.99	128080	11.53
12 BA01775W01	263040	5.42	261824	8.99	132160	11.54
13 Ending CCV 10ug/L 10/2	282752	5.42	277184	8.99	157696	11.53
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): 1030L18.D Date Analyzed: 10/30/19
 Instrument ID: Loki Time Analyzed: 22:00
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	285632	5.42	281344	8.99	157696	11.53
UPPER LIMIT	571264	5.59	562688	9.16	315392	11.70
LOWER LIMIT	142816	5.25	140672	8.82	78848	11.36
SAMPLE NO.						
01 191030 LCS 10ug/L	292736	5.42	276032	8.99	156032	11.53
02 191030 LCSD 10ug/L	283840	5.42	278400	8.99	156480	11.53
03 191030 BLK	257024	5.42	249472	8.99	123784	11.53
04 BA01777W03	260864	5.42	256640	8.99	126784	11.53
05 Ending CCV 10ug/L 10/2	276480	5.42	267584	8.99	156544	11.53
06						
07						
08						
09						
10						
11						
12						
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14						
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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): 1023T11.D Date Analyzed: 10/23/19
 Instrument ID: Thor Time Analyzed: 21:55
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		178432	6.59	159872	9.74	97112	12.06
UPPER LIMIT		356864	6.76	319744	9.91	194224	12.23
LOWER LIMIT		89216	6.42	79936	9.57	48556	11.89
SAMPLE NO.							
01	(SS)10ug/L VOC STD 1	189056	6.59	176576	9.74	104576	12.07
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
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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): 1028T16.D Date Analyzed: 10/28/19
 Instrument ID: Thor Time Analyzed: 22:50
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		153088	6.59	142528	9.74	80472	12.06
UPPER LIMIT		306176	6.76	285056	9.91	160944	12.23
LOWER LIMIT		76544	6.42	71264	9.57	40236	11.89
SAMPLE NO.							
01	191028A LCSD 10ug/L	147328	6.59	137792	9.74	80160	12.06
02	191028A BLK	145408	6.59	132032	9.74	72064	12.06
03	BA01779W01	139968	6.59	130488	9.74	68216	12.06
04	Ending CCV 10ug/L 10/1	204672	6.59	176896	9.74	105960	12.06
05							
06							
07							
08							
09							
10							
11							
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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: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191028AT-LCS	Lab Control Spike	85-114	96.4				
191028AT-LCSD	Lab Control Spiked	85-114	92.0				
191028AT-BLK	Blank	85-114	95.1				
BA01779	ERH931	85-114	93.3				

Comments: Batch: #GRO86-191028AT

Printed: 10/31/19 1:59:21 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191028BL-LCS	Lab Control Spike	85-114	108				
191028BL-LCSD	Lab Control Spiked	85-114	101				
191028BL-BLK	Blank	85-114	103				
BA01774	ERH909	85-114	102				
BA01776	ERH926	85-114	99.3				
BA01778	ERH930	85-114	104				
BA01783	ERH950	85-114	99.4				
BA01780	ERH934	85-114	100				
BA01781	ERH935	85-114	99.1				
BA01782	ERH936	85-114	99.3				
BA01784	ERH951	85-114	98.9				
BA01775	ERH910	85-114	98.2				

Comments: Batch: #GRO86-191028BL

Printed: 10/31/19 1:59:21 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191030AL-LCS	Lab Control Spike	85-114	104				
191030AL-LCSD	Lab Control Spiked	85-114	108				
191030AL-BLK	Blank	85-114	105				
BA01777	ERH927	85-114	104				

Comments: Batch: #GRO86-191030AL

Printed: 10/31/19 1:59:21 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Thor

Blank ID: 191028AT-BLK

Time Analyzed: 0111

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028AT-LCS	Lab Control Spike	1028T18	10/28/19 2346
191028AT-LCSD	Lab Control SpikeD	1028T19	10/29/19 0014
191028AT-BLK	Blank	1028T21	10/29/19 0111
BA01779	ERH931	1028T34	10/29/19 0718

Comments: Batch: #GRO86-191028AT

Printed: 10/31/19 1:59:13 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **191028W-01779 - 246628**
Batch ID: #GRO86-191028AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/29/19	10/29/19
BLANK	SURROGATE: 4-BROMOFLUORO	95.1	85-114			%	10/29/19	10/29/19

Quant Method: TGAS1026.M
Run #: 1028T21
Instrument: Thor
Sequence: T191028
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:59:24 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

Blank ID: 191028BL-BLK

Time Analyzed: 2230

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028BL-LCS	Lab Control Spike	1028L25	10/28/19 2133
191028BL-LCSD	Lab Control SpikeD	1028L26	10/28/19 2202
191028BL-BLK	Blank	1028L27	10/28/19 2230
BA01774	ERH909	1028L28	10/28/19 2259
BA01776	ERH926	1028L29	10/28/19 2327
BA01778	ERH930	1028L30	10/28/19 2355
BA01783	ERH950	1028L31	10/29/19 0024
BA01780	ERH934	1028L40	10/29/19 0439
BA01781	ERH935	1028L41	10/29/19 0508
BA01782	ERH936	1028L42	10/29/19 0536
BA01784	ERH951	1028L43	10/29/19 0605
BA01775	ERH910	1028L44	10/29/19 0633

Comments: Batch: #GRO86-191028BL

Printed: 10/31/19 1:59:13 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **191028W-01784 - 246527**
Batch ID: #GRO86-191028BL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/28/19	10/28/19
BLANK	SURROGATE: 4-BROMOFLUORO	103	85-114			%	10/28/19	10/28/19

Quant Method: LGAS1026.M
Run #: 1028L27
Instrument: Loki
Sequence: 191023
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:59:24 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Loki

Blank ID: 191030AL-BLK

Time Analyzed: 0050

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL-LCS	Lab Control Spike	1030L22	10/30/19 2353
191030AL-LCSD	Lab Control Spiked	1030L23	10/31/19 0022
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01777	ERH927	1030L27	10/31/19 0215

Comments: Batch: #GRO86-191030AL

Printed: 10/31/19 1:59:13 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **191030W-01777 - 246612**
Batch ID: #GRO86-191030AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/31/19	10/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	105	85-114			%	10/31/19	10/31/19

Quant Method: LGAS1026.M
Run #: 1030L24
Instrument: Loki
Sequence: 191023
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:59:24 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Thor

LCS ID: 191028AT-LCS

Time Analyzed: 2346

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191028AT-LCS	Lab Control Spike	1028T18	10/28/19 2346
191028AT-LCSD	Lab Control Spiked	1028T19	10/29/19 0014
191028AT-BLK	Blank	1028T21	10/29/19 0111
BA01779	ERH931	1028T34	10/29/19 0718

Comments: Batch: #GRO86-191028AT

Printed: 10/31/19 1:59:11 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: 191028W-01779 LCS - 246628
 Batch ID: #GRO86-191028AT

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	260	235	86.7	78.3	78-122	10.1	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	24.1	23.0	96.4	92.0	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	TGAS1026.M	TGAS1026.M
Extraction Date :	10/28/19	10/29/19
Analysis Date :	10/28/19	10/29/19
Instrument :	Thor	Thor
Run :	1028T18	1028T19
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/28/19

Matrix: WATER

Instrument: Loki

LCS ID: 191028BL-LCS

Time Analyzed: 2133

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028BL-LCS	Lab Control Spike	1028L25	10/28/19 2133
191028BL-LCSD	Lab Control Spiked	1028L26	10/28/19 2202
191028BL-BLK	Blank	1028L27	10/28/19 2230
BA01774	ERH909	1028L28	10/28/19 2259
BA01776	ERH926	1028L29	10/28/19 2327
BA01778	ERH930	1028L30	10/28/19 2355
BA01783	ERH950	1028L31	10/29/19 0024
BA01780	ERH934	1028L40	10/29/19 0439
BA01781	ERH935	1028L41	10/29/19 0508
BA01782	ERH936	1028L42	10/29/19 0536
BA01784	ERH951	1028L43	10/29/19 0605
BA01775	ERH910	1028L44	10/29/19 0633

Comments: Batch: #GRO86-191028BL

Printed: 10/31/19 1:59:11 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: 191028W-01784 LCS - 246527
 Batch ID: #GRO86-191028BL

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	298	290	99.3	96.7	78-122	2.7	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	26.9	25.3	108	101	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS1026.M	LGAS1026.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	10/28/19	10/28/19
Instrument :	Loki	Loki
Run :	1028L25	1028L26
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

LCS ID: 191030AL-LCS

Time Analyzed: 2353

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191030AL-LCS	Lab Control Spike	1030L22	10/30/19 2353
191030AL-LCSD	Lab Control SpikeD	1030L23	10/31/19 0022
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01777	ERH927	1030L27	10/31/19 0215

Comments: Batch: #GRO86-191030AL

Printed: 10/31/19 1:59:12 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 191030W-01777 LCS - 246612
 Batch ID: #GRO86-191030AL

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	300	278	100	92.7	78-122	7.6	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	26.1	27.1	104	108	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS1026.M	LGAS1026.M
Extraction Date :	10/30/19	10/31/19
Analysis Date :	10/30/19	10/31/19
Instrument :	Loki	Loki
Run :	1030L22	1030L23
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191029A-BLK

SDG No: 90551
Date Analyzed: 10/29/19
Instrument: Rocky
Time Analyzed: 1742

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-LCS	Lab Control Spike	1029R04	10/29/19 1717
191029A-LCSD	Lab Control SpikeD	1029R05	10/29/19 1737
191029A-BLK	Blank	1029R06	10/29/19 1742
BA01774	ERH909	1029R07	10/29/19 1746
BA01775	ERH910	1029R08	10/29/19 1755
BA01776	ERH926	1029R09	10/29/19 1801
BA01777	ERH927	1029R10	10/29/19 1805
BA01778	ERH930	1029R11	10/29/19 1808
BA01779	ERH931	1029R12	10/29/19 1812
BA01783	ERH950	1029R13	10/29/19 1817
BA01784	ERH951	1029R14	10/29/19 1821

Comments: Batch: #RSKME-191029A

Method Blank
METHANE

Blank Name/QCG: 191029W-01774 - 246555
Batch ID: #RSKME-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R06
Instrument: Rocky
Sequence: 191002
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 10/29/19 7:12:41 PM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Rocky

LCS ID: 191029A-LCS

Time Analyzed: 1717

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191029A-LCS	Lab Control Spike	1029R04	10/29/19 1717
191029A-LCSD	Lab Control SpikeD	1029R05	10/29/19 1737
191029A-BLK	Blank	1029R06	10/29/19 1742
BA01774	ERH909	1029R07	10/29/19 1746
BA01775	ERH910	1029R08	10/29/19 1755
BA01776	ERH926	1029R09	10/29/19 1801
BA01777	ERH927	1029R10	10/29/19 1805
BA01778	ERH930	1029R11	10/29/19 1808
BA01779	ERH931	1029R12	10/29/19 1812
BA01783	ERH950	1029R13	10/29/19 1817
BA01784	ERH951	1029R14	10/29/19 1821

Comments: Batch: #RSKME-191029A

Printed: 10/29/19 7:13:02 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 191029W-01774 LCS - 246555

Batch ID: #RSKME-191029A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	79.9	70.8	95.8	84.9	72-125	12.1	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK1002.M	RSK1002.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	10/29/19	10/29/19
Instrument :	Rocky	Rocky
Run :	1029R04	1029R05
Initials :	GAG	

6010C/3010A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Phoebe

Blank ID: 191028B1-BLK

Time Analyzed: 1330

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028B1-LCSD	Lab Control SpikeD	191030A	10/30/19 1339
191028B1-LCS	Lab Control Spike	191030A	10/30/19 1334
191028B1-BLK	Blank	191030A	10/30/19 1330
BA01784	ERH951	191030A	10/30/19 1353

Comments: Batch: #61CDO-191028B1

Printed: 10/31/19 2:13:47 PM
Form 4, Blank Summary

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6010C	CALCIUM (CA)	75.0 U	1000	75.0	27.5	ug/L	10/28/19	10/30/19	#61CDO-191028B1-BA01784
6010C	MAGNESIUM (MG)	30.0 U	500	30.0	12.9	ug/L	10/28/19	10/30/19	#61CDO-191028B1-BA01784
6010C	MANGANESE (MN)	4.00 U	10.0	4.00	1.23	ug/L	10/28/19	10/30/19	#61CDO-191028B1-BA01784
6010C	POTASSIUM (K)	500.0 U	3000	500.0	220.0	ug/L	10/28/19	10/30/19	#61CDO-191028B1-BA01784
6010C	SODIUM (NA)	500.0 U	5000	500.0	111.1	ug/L	10/28/19	10/30/19	#61CDO-191028B1-BA01784

Metals SC-Blank-REG MDLs
Printed: 10/31/19 2:13:56 PM

6010C/3010A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Phoebe

LCS ID: 191028B1-LCS

Time Analyzed: 1334

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028B1-LCSD	Lab Control Spiked	191030A	10/30/19 1339
191028B1-LCS	Lab Control Spike	191030A	10/30/19 1334
191028B1-BLK	Blank	191030A	10/30/19 1330
BA01784	ERH951	191030A	10/30/19 1353

Comments: Batch: #61CDO-191028B1

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Form 4, LCS Summary

Laboratory Control Spike Recoveries

METALS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010C	CALCIUM (CA)	25000	24700	24400	98.8	97.6	1.2	20	87-113	10/28/19	10/30/19	10/28/19	10/30/19	#61CDO-191028B1-BA017
EPA 6010C	MAGNESIUM (MG)	25000	25100	24900	100	99.6	0.8	20	85-113	10/28/19	10/30/19	10/28/19	10/30/19	#61CDO-191028B1-BA017
EPA 6010C	MANGANESE (MN)	250	247	243	98.8	97.2	1.6	20	90-114	10/28/19	10/30/19	10/28/19	10/30/19	#61CDO-191028B1-BA017
EPA 6010C	POTASSIUM (K)	5000	4860	4780	97.2	95.6	1.7	20	86-114	10/28/19	10/30/19	10/28/19	10/30/19	#61CDO-191028B1-BA017
EPA 6010C	SODIUM (NA)	25000	24300	24100	97.2	96.4	0.8	20	87-115	10/28/19	10/30/19	10/28/19	10/30/19	#61CDO-191028B1-BA017

Comments: _____

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/24/19

Matrix: WATER

Instrument: Charlie

Blank ID: 191024B1-BLK

Time Analyzed: 1930

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191024B1-BLK	Blank	16	10/24/19 1930
191024B1-DUP	Duplicate	17	10/24/19 1945
BA01777	ERH927	17	10/24/19 1937
191024B1-MS	Matrix Spike	19	10/24/19 1952
191024B1-MSD	Matrix SpikeD	20	10/24/19 2000
BA01775	ERH910	21	10/24/19 2007
BA01784	ERH951	22	10/24/19 2015
BA01779	ERH931	23	10/24/19 2022
BA01777	ERH927	53	10/25/19 1006
191024B1-DUP	Duplicate	53	10/24/19 1945
BA01784	ERH951	54	10/25/19 1013
BA01779	ERH931	55	10/25/19 1021
BA01779	ERH931	58	10/25/19 1043
191024B1-LCS	Lab Control Spike	6	10/24/19 1815
191024B1-LCSD	Lab Control SpikeD	7	10/24/19 1822

Comments: Batch: #300W-191024B1

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Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	BROMIDE	0.16 U	0.5	0.16	0.05	mg/L	10/24/19	10/24/19	#300W-191024B1-BA01777
EPA 300.0	CHLORIDE	0.20 U	1.0	0.20	0.08	mg/L	10/24/19	10/24/19	#300W-191024B1-BA01777
EPA 300.0	NITRATE	0.18 U	0.5	0.18	0.04	mg/L	10/24/19	10/24/19	#300W-191024B1-BA01777
EPA 300.0	SULFATE	0.20 U	1.0	0.20	0.09	mg/L	10/24/19	10/24/19	#300W-191024B1-BA01777

Wetlab SC-Blank-REG MDLs
Printed: 11/19/19 4:50:41 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90551

Case No: 90551

Date Analyzed: 10/24/19

Matrix: WATER

Instrument: Charlie

LCS ID: 191024B1-LCS

Time Analyzed: 1815

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191024B1-BLK	Blank	16	10/24/19 1930
191024B1-DUP	Duplicate	17	10/24/19 1945
BA01777	ERH927	17	10/24/19 1937
191024B1-MS	Matrix Spike	19	10/24/19 1952
191024B1-MSD	Matrix Spiked	20	10/24/19 2000
BA01775	ERH910	21	10/24/19 2007
BA01784	ERH951	22	10/24/19 2015
BA01779	ERH931	23	10/24/19 2022
BA01777	ERH927	53	10/25/19 1006
191024B1-DUP	Duplicate	53	10/24/19 1945
BA01784	ERH951	54	10/25/19 1013
BA01779	ERH931	55	10/25/19 1021
BA01779	ERH931	58	10/25/19 1043
191024B1-LCS	Lab Control Spike	6	10/24/19 1815
191024B1-LCSD	Lab Control Spiked	7	10/24/19 1822

Comments: Batch: #300W-191024B1

Printed: 11/19/19 4:50:44 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	22.7	22.8	90.8	91.2	0.44	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	#300W-191024B1-BA0177
EPA 300.0	NITRATE	22.1	21.0	21.1	95.0	95.5	0.48	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	#300W-191024B1-BA0177
EPA 300.0	SULFATE	25.0	24.0	24.0	96.0	96.0	0.0	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	#300W-191024B1-BA0177

Comments:

Matrix Spike Recoveries

WETLAB

APPL ID: 191024W-01777 MS - 246773

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: BA01777
Client ID: ERH927

Method	Compound Name	Spike Lvl mg/L	Matrix Res mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recovery	DUP % Recovery	RPD	RPD Recovery Max	RPD Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 300.0	CHLORIDE	25.0	49.6	84.5	84.9	140 #	141 #	0.47	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	246773	BA01777
EPA 300.0	NITRATE	22.1	1.9	23.8	23.9	99.1	99.5	0.42	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	246773	BA01777
EPA 300.0	SULFATE	25.0	16.1	41.2	41.8	100	103	1.4	20	90-110	10/24/19	10/24/19	10/24/19	10/24/19	246773	BA01777

= Recovery is outside QC limits.

Comments:

WETLAB

Sample/Sample Duplicate Results

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Sample ID: BA01777

Client ID: ERH927

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90551

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	MDL	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
EPA 300.0	CHLORIDE	BA01777	49.6	58.5	16	20	0.08	1.0	mg/L	10/25/19	10/25/19	10/24/19	10/24/19
EPA 300.0	NITRATE	BA01777	1.9	1.9	0.0	20	0.04	0.5	mg/L	10/24/19	10/24/19	10/24/19	10/24/19
EPA 300.0	SULFATE	BA01777	16.1	16.0	0.6	20	0.09	1.0	mg/L	10/24/19	10/24/19	10/24/19	10/24/19

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Dup-SCII (NoMC)

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191025A-BLK

SDG No: 90551
Date Analyzed: 10/25/19
Instrument: EVE
Time Analyzed: 1814

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191025A-BLK	Blank	12	10/25/19 1814
191025A-LCS	Lab Control Spike	13	10/25/19 1816
191025A-LCSD	Lab Control Spiked	14	10/25/19 1819
BA01775	ERH910	29	10/25/19 1851
BA01777	ERH927	30	10/25/19 1852
BA01779	ERH931	33	10/25/19 1855
BA01784	ERH951	34	10/25/19 1856

Comments: Batch: #35OF-191025A

Printed: 11/19/19 4:52:32 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191029C-BLK

SDG No: 90551
Date Analyzed: 10/29/19
Instrument: Tiamo
Time Analyzed: 1145

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029C-BLK	Blank	1	10/29/19 1145
BA01775	ERH910	12	10/29/19 1510
BA01777	ERH927	13	10/29/19 1516
BA01779	ERH931	14	10/29/19 1522
BA01784	ERH951	15	10/29/19 1530
191029C-LCS	Lab Control Spike	2	10/29/19 1252
191029C-LCSD	Lab Control Spiked	3	10/29/19 1303

Comments: Batch: #232W-191029C

Printed: 11/19/19 4:52:32 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191024-BLK

SDG No: 90551
Date Analyzed: 10/24/19
Instrument: Manual Spec
Time Analyzed: 2321

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191024-BLK	Blank	29	10/24/19 2321
191024-LCS	Lab Control Spike	31	10/24/19 2322
191024-LCSD	Lab Control Spiked	32	10/24/19 2323
BA01784	ERH951	33	10/24/19 2325
BA01779	ERH931	34	10/24/19 2326
BA01775	ERH910	35	10/24/19 2327
BA01777	ERH927	36	10/24/19 2328

Comments: Batch: #35FE-191024

Printed: 11/19/19 4:52:32 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191105A-BLK

SDG No: 90551
Date Analyzed: 11/05/19
Instrument: TICTOC
Time Analyzed: 1620

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191105A-BLK	Blank	15	11/05/19 1620
191105A-LCS	Lab Control Spike	16	11/05/19 1656
191105A-LCSD	Lab Control Spiked	17	11/05/19 1731
BA01784	ERH951	26	11/05/19 2308

Comments: Batch: #DOCW5-191105A

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
Blank ID: 191107A-BLK

SDG No: 90551
Date Analyzed: 11/08/19
Instrument: TICTOC
Time Analyzed: 1846

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191107A-BLK	Blank	11	11/08/19 1846
191107A-LCS	Lab Control Spike	12	11/08/19 1921
191107A-LCSD	Lab Control Spiked	13	11/08/19 1957
BA01775	ERH910	31	11/09/19 0600
BA01777	ERH927	32	11/09/19 0633
BA01779	ERH931	33	11/09/19 0706
BA01784	ERH951	34	11/09/19 0741

Comments: Batch: #TOCW5-191107A

Printed: 11/19/19 4:52:32 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	BICARBONATE AS	1.70 U	2.0	1.70	0.85	mg/L	10/29/19	10/29/19	#232W-191029C-BA01579
SM 2320B	CARBONATE AS C	1.70 U	2.0	1.70	0.85	mg/L	10/29/19	10/29/19	#232W-191029C-BA01579
SM 2320B	TOTAL ALKALINITY	1.70 U	2.0	1.70	0.85	mg/L	10/29/19	10/29/19	#232W-191029C-BA01579
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	10/25/19	10/25/19	#35OF-191025A-BA01579
SW846 90	TOTAL ORGANIC C	0.13 J	0.93	0.350	0.130	mg/L	11/08/19	11/08/19	#TOCW5-191107A-BA01775
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	10/24/19	10/24/19	#35FE-191024-BA01777
SW846 90	DISSOLVED ORGA	0.350 U	0.93	0.350	0.130	mg/L	11/05/19	11/05/19	#DOCW5-191105A-BA01784

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191025A-LCS

SDG No: 90551
Date Analyzed: 10/25/19
Instrument: EVE
Time Analyzed: 1816

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191025A-BLK	Blank	12	10/25/19 1814
191025A-LCS	Lab Control Spike	13	10/25/19 1816
191025A-LCSD	Lab Control Spiked	14	10/25/19 1819
BA01775	ERH910	29	10/25/19 1851
BA01777	ERH927	30	10/25/19 1852
BA01779	ERH931	33	10/25/19 1855
BA01784	ERH951	34	10/25/19 1856

Comments: Batch: #35OF-191025A

Printed: 11/19/19 4:52:33 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191029C-LCS

SDG No: 90551
Date Analyzed: 10/29/19
Instrument: Tiamo
Time Analyzed: 1252

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029C-BLK	Blank	1	10/29/19 1145
BA01775	ERH910	12	10/29/19 1510
BA01777	ERH927	13	10/29/19 1516
BA01779	ERH931	14	10/29/19 1522
BA01784	ERH951	15	10/29/19 1530
191029C-LCS	Lab Control Spike	2	10/29/19 1252
191029C-LCSD	Lab Control Spiked	3	10/29/19 1303

Comments: Batch: #232W-191029C

Printed: 11/19/19 4:52:33 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191024-LCS

SDG No: 90551
Date Analyzed: 10/24/19
Instrument: Manual Spec
Time Analyzed: 2322

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191024-BLK	Blank	29	10/24/19 2321
191024-LCS	Lab Control Spike	31	10/24/19 2322
191024-LCSD	Lab Control Spiked	32	10/24/19 2323
BA01784	ERH951	33	10/24/19 2325
BA01779	ERH931	34	10/24/19 2326
BA01775	ERH910	35	10/24/19 2327
BA01777	ERH927	36	10/24/19 2328

Comments: Batch: #35FE-191024

Printed: 11/19/19 4:52:33 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191105A-LCS

SDG No: 90551
Date Analyzed: 11/05/19
Instrument: TICTOC
Time Analyzed: 1656

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191105A-BLK	Blank	15	11/05/19 1620
191105A-LCS	Lab Control Spike	16	11/05/19 1656
191105A-LCSD	Lab Control Spiked	17	11/05/19 1731
BA01784	ERH951	26	11/05/19 2308

Comments: Batch: #DOCW5-191105A

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90551
Matrix: WATER
LCS ID: 191107A-LCS

SDG No: 90551
Date Analyzed: 11/08/19
Instrument: TICTOC
Time Analyzed: 1921

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191107A-BLK	Blank	11	11/08/19 1846
191107A-LCS	Lab Control Spike	12	11/08/19 1921
191107A-LCSD	Lab Control Spiked	13	11/08/19 1957
BA01775	ERH910	31	11/09/19 0600
BA01777	ERH927	32	11/09/19 0633
BA01779	ERH931	33	11/09/19 0706
BA01784	ERH951	34	11/09/19 0741

Comments: Batch: #TOCW5-191107A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	3.01	3.29	100	110	8.9	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#35OF-191025A-BA01579
SM 2320B	BICARBONATE AS CaCO3	250	245	238	98.0	95.2	2.9	20	90-110	10/29/19	10/29/19	10/29/19	10/29/19	#232W-191029C-BA01579
SM 2320B	TOTAL ALKALINITY AS CA	250	245	244	98.0	97.6	0.41	20	90-110	10/29/19	10/29/19	10/29/19	10/29/19	#232W-191029C-BA01579
SW846 90	TOTAL ORGANIC CARBO	5.0	5.19	5.15	104	103	0.77	20	80-120	11/08/19	11/08/19	11/08/19	11/08/19	#TOCW5-191107A-BA017

Comments: _____

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Analysis Date-Spk	Extract Analysis Date-Spk	Extract Analysis Date-Dup	Extract Analysis Date-Dup	QC Group
SM3500Fe	FERROUS IRON	3.00	2.93	2.96	97.7	98.7	1.0	20	80-120	10/24/19	10/24/19	10/24/19	10/24/19	#35FE-191024-BA01777

Comments: _____

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SW846 90	DISSOLVED ORGANIC CA	5.00	5.06	5.06	101	101	0.0	20	90-110	11/05/19	11/05/19	11/05/19	11/05/19	#DOCW5-191105A-BA017

Comments: _____

**ORGANICS
Calibration Data**

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/04/19
Instrument: Herbie

Initials: _____

0916268.D 0916269.D 0916270.D 0916271.D 0916272.D 0916273.D

		Compound	1	2	3	4	5	6				Avg	%RSD	Type	r ²	Q
1	TM	EDB	957925	891635	829946	799880	783065	760594				837174	8.9	TM		
2	TM	1,2,3-TCP	275950	261900	249268	238118	222163	222258				244943	8.8	TM		
3	S	1,3-DIBROMOPROPANE(S)		1075985	937166	872350	833523	840804				911966	11	S		
4	TM	DBCP	3687525	3144370	3175104	3075688	2997261	3077861				3192968	7.8	TM		
5		Signal #2										0	0			
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35																

1.045453

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Initial Cal. Date: 10/04/19 _____

Matrix: Water _____

Instrument: Herbie _____

Initials: _____

0916268.D 0916269.D 0916270.D 0916271.D 0916272.D 0916273.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
36	TM	EDB #2	4043025	3612320	3361426	3185151	3128997	3162054					3415495	10	TM		
37	TM	1,2,3-TCP #2	716275	690230	656420	605505	578491	554784					633618	10	TM		
38	S	1,3-DIBROMOPROPANE(S) #2		2479830	2319054	2114508	2054939	2051529					2203972	8.6	S		
39	TM	DBCP #2	10155850	9496460	9513624	9602001	9342871	9593304					9617352	2.9	TM		
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70																	

0.915583

Signal #1 : G:\HERBIE\DATA\190916\0916268.D\ECD1A.CH Vial: 68
 Signal #2 : G:\HERBIE\DATA\190916\0916268.D\ECD2B.CH
 Acq On : 10-04-19 19:08:08 Operator: MA,SS
 Sample : 8011 1 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

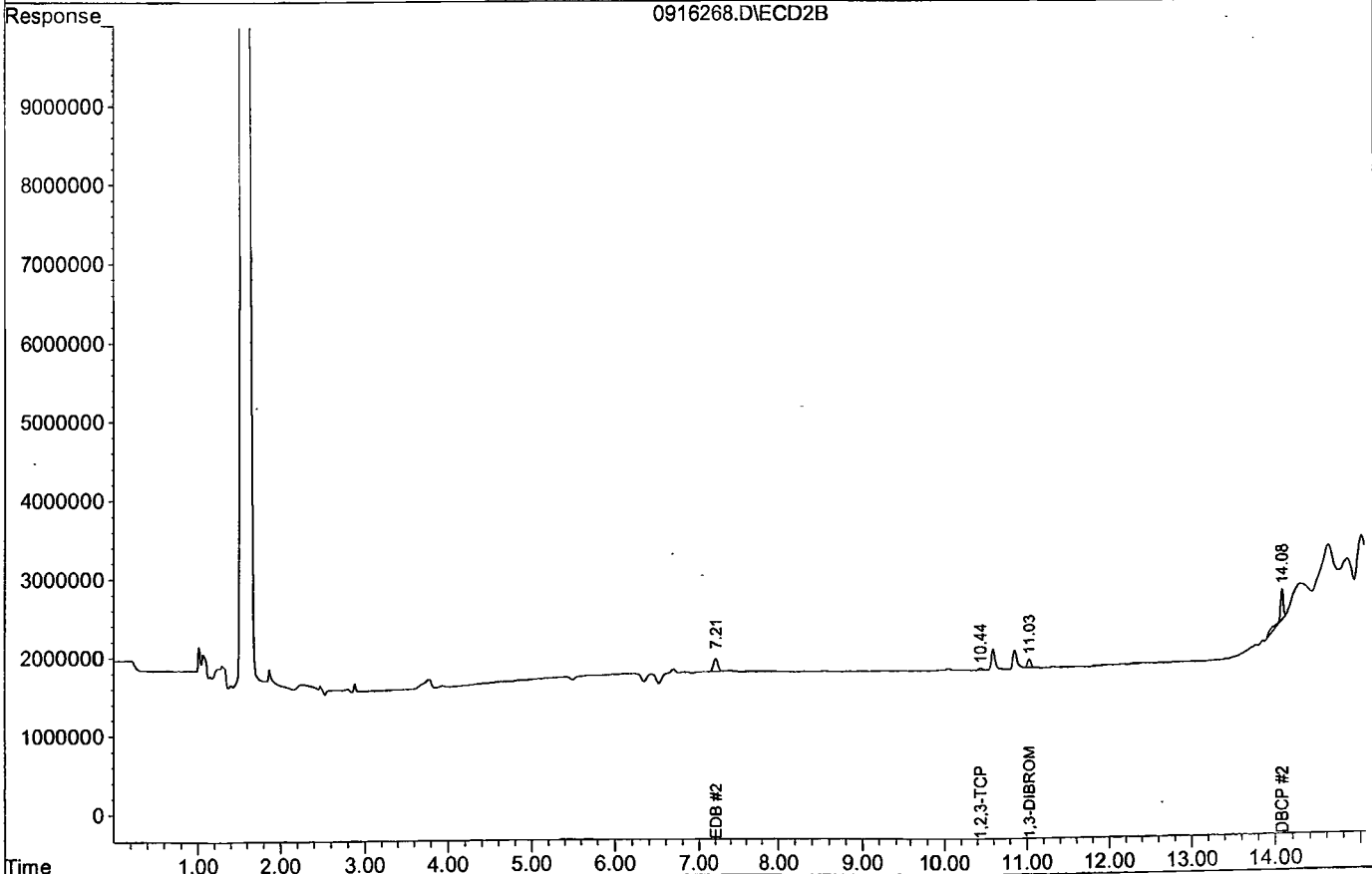
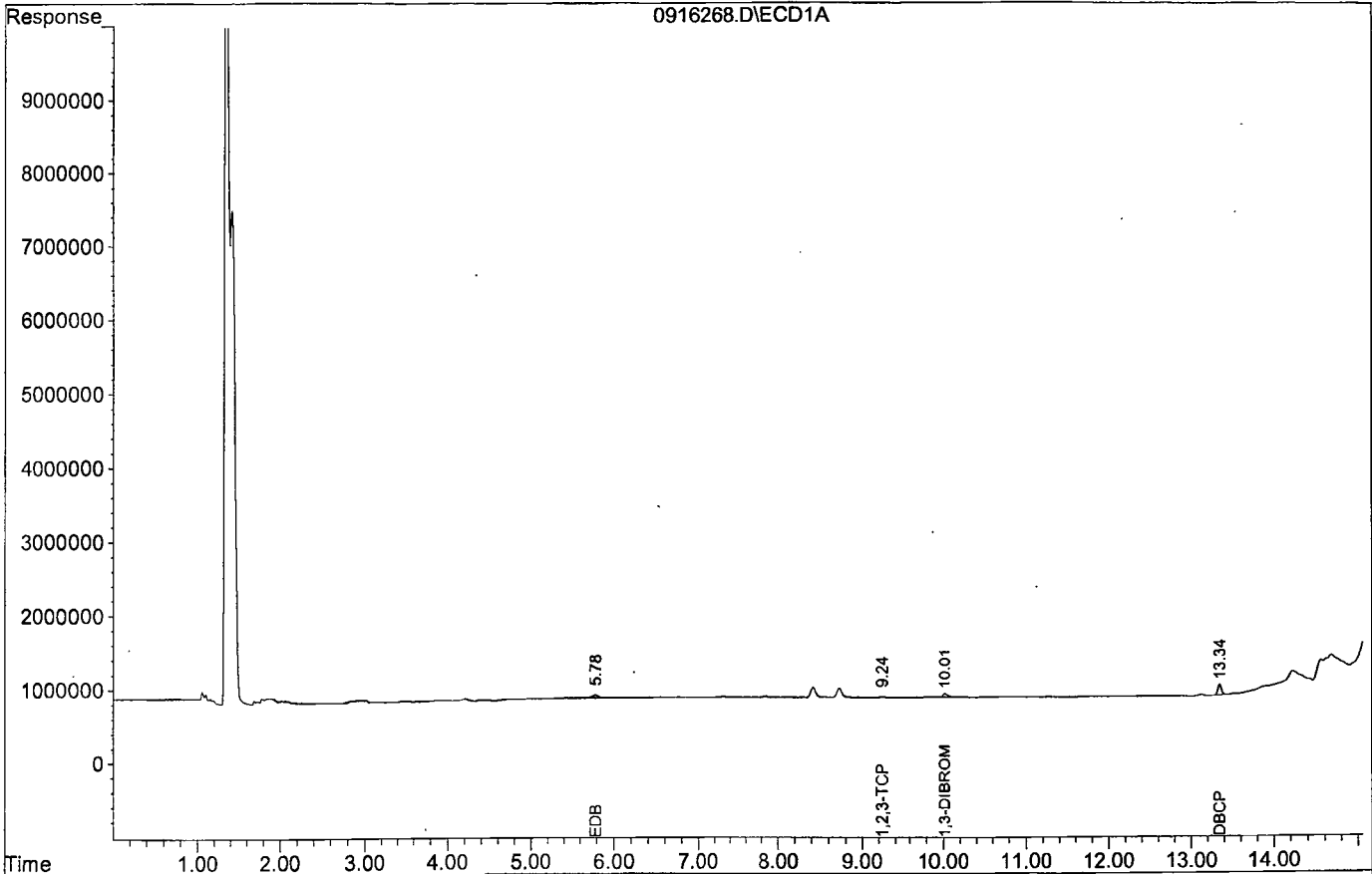
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	53761	107891	0.028	0.026
Spiked Amount	0.350		Recovery	=	8.00%	7.43%
Target Compounds						
1) TM EDB	5.78	7.21	38317	161721	0.029	0.026
2) TM 1,2,3-TCP	9.24	10.44	11038	28651	0.023	0.025
4) TM DBCP	13.34	14.08	147501	406234	0.023	0.025

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916268.D
Acq On : 10-04-19 19:08:08
Sample : 8011 1 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 68
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916269.D\ECD1A.CH Vial: 69
 Signal #2 : G:\HERBIE\DATA\190916\0916269.D\ECD2B.CH
 Acq On : 10-04-19 19:28:36 Operator: MA,SS
 Sample : 8011 2 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	215197	495966	0.113	0.121
Spiked Amount	0.350		Recovery	=	32.29%	34.57%

Target Compounds

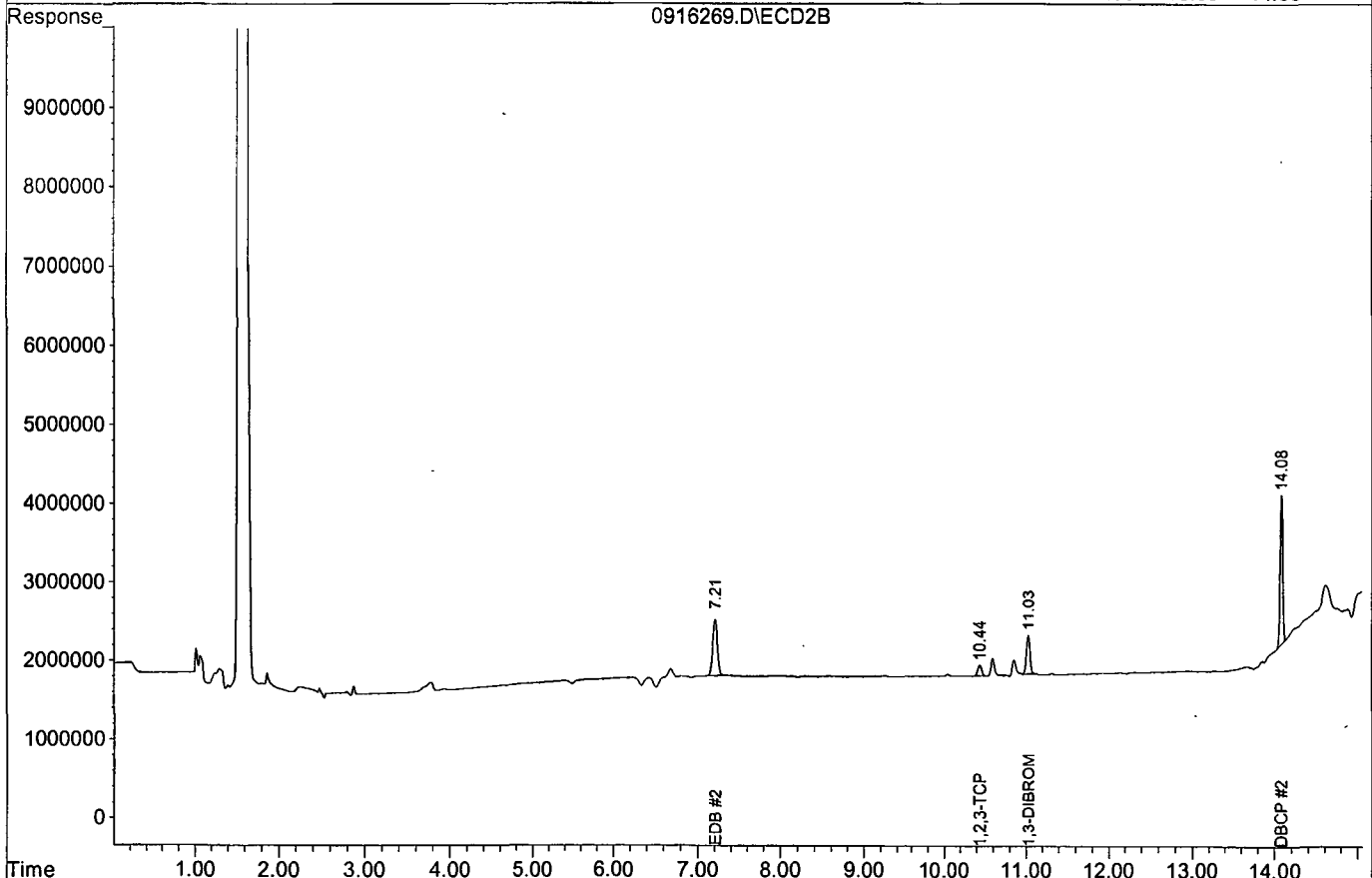
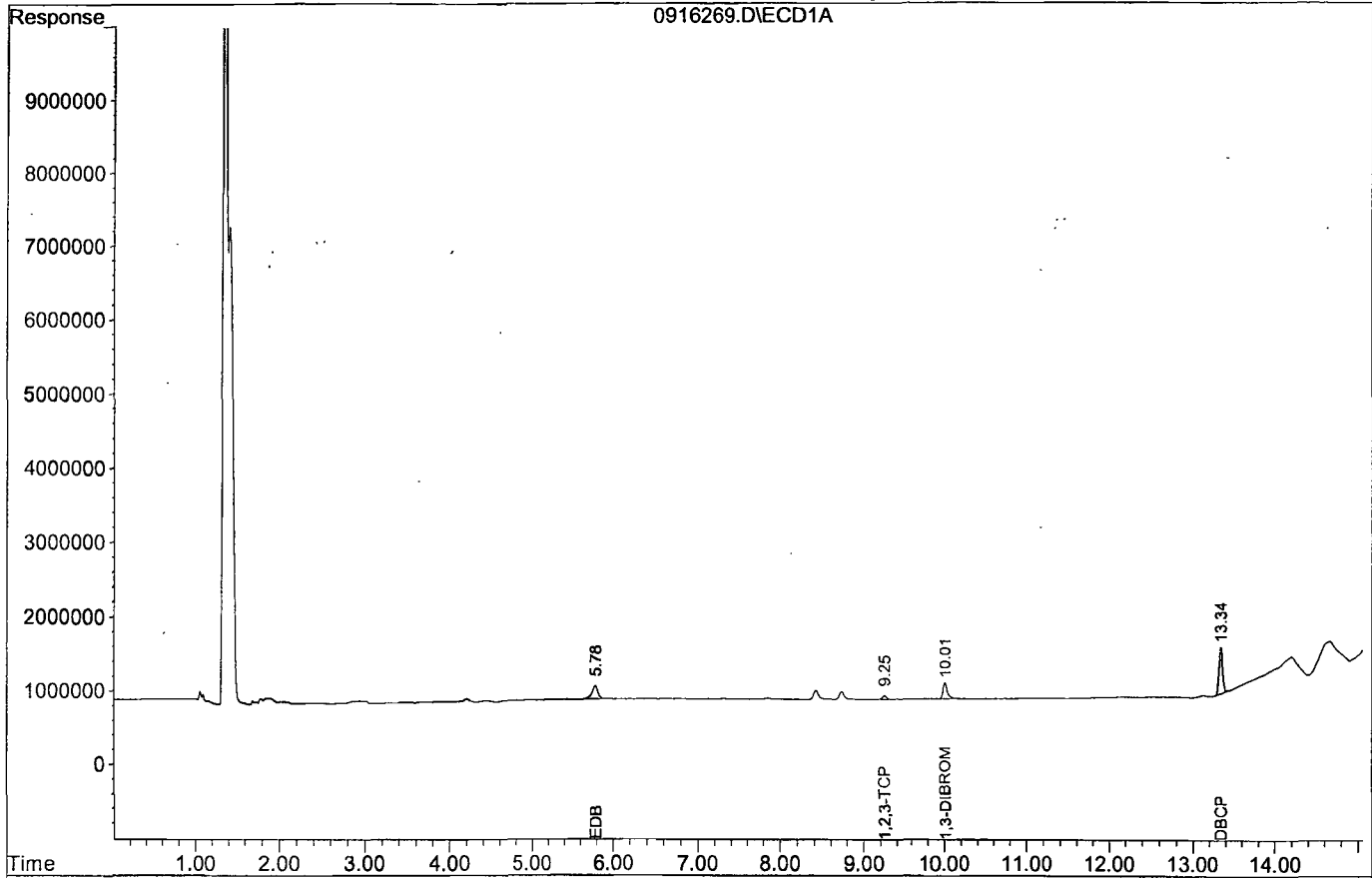
1) TM EDB	5.78	7.21	178327	722464	0.133	0.116
2) TM 1,2,3-TCP	9.25	10.44	52380	138046	0.108	0.122
4) TM DBCP	13.34	14.08	628874	1899292	0.098	0.117

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916269.D
Acq On : 10-04-19 19:28:36
Sample : 8011 2 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 69
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916270.D\ECD1A.CH Vial: 70
 Signal #2 : G:\HERBIE\DATA\190916\0916270.D\ECD2B.CH
 Acq On : 10-04-19 19:49:11 Operator: MA,SS
 Sample : 8011 3 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	468583	1159527	0.246	0.283
Spiked Amount	0.350		Recovery	=	70.29%	80.86%

Target Compounds

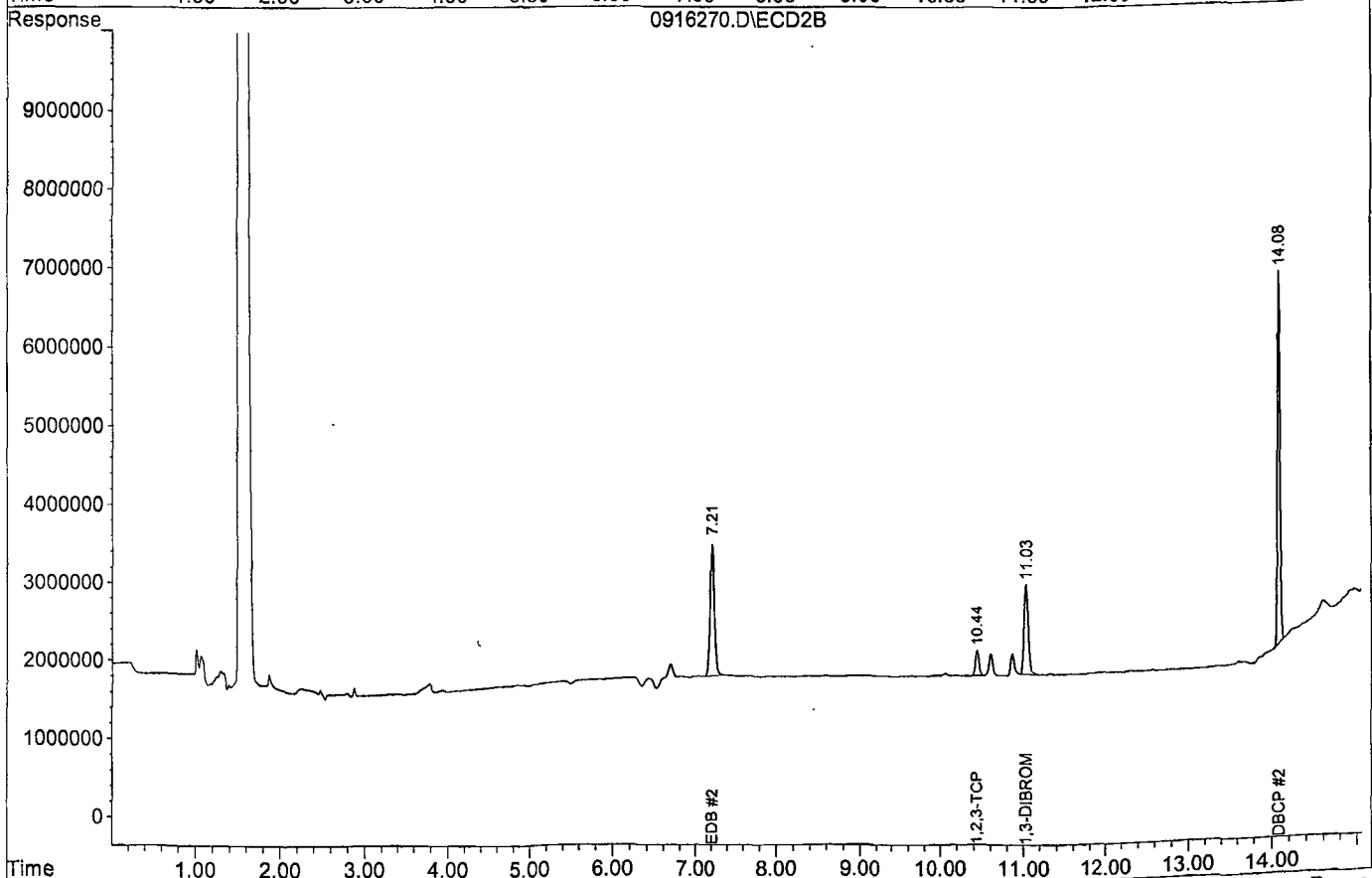
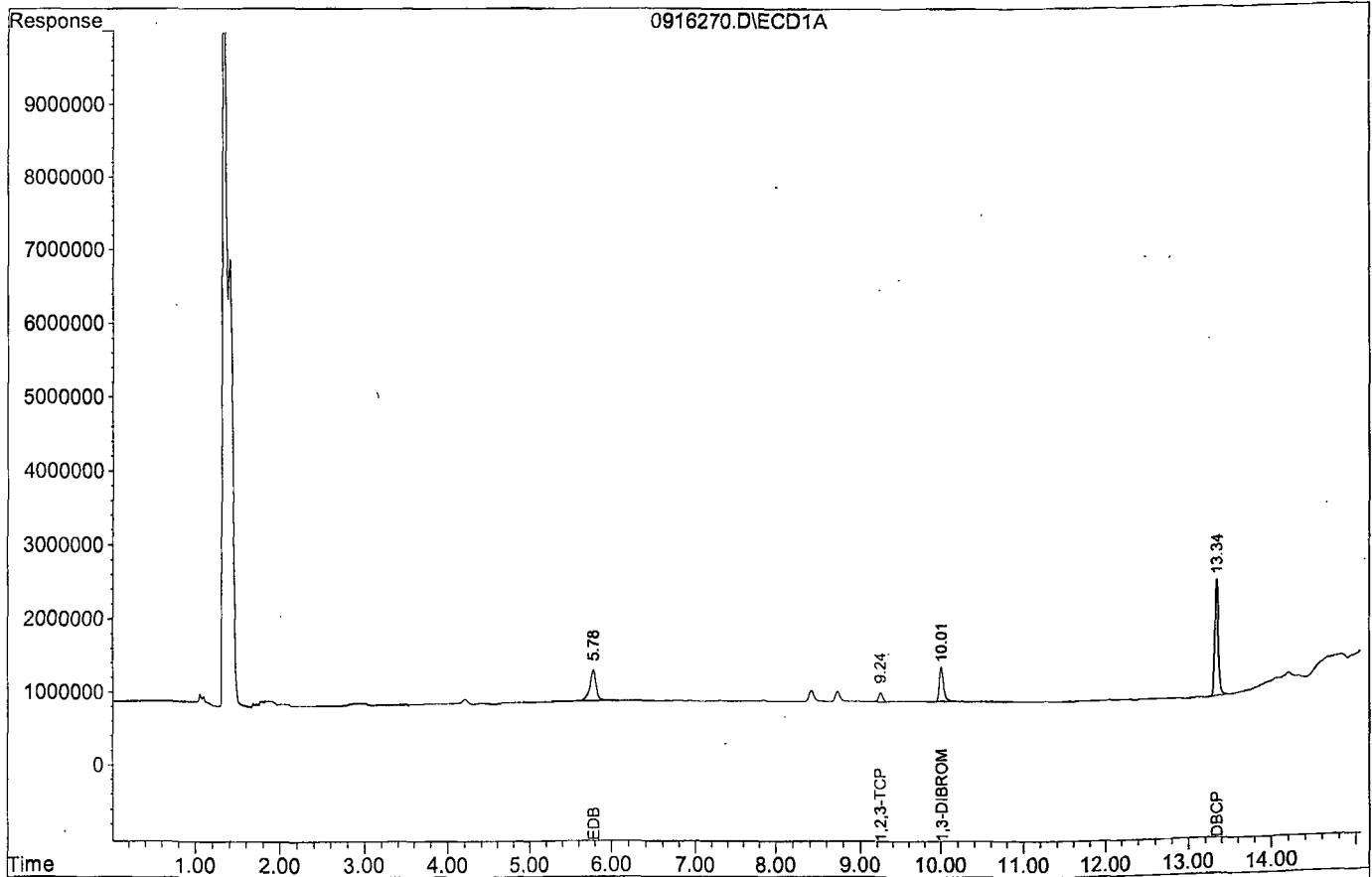
1) TM EDB	5.78	7.21	414973	1680713	0.309	0.270
2) TM 1,2,3-TCP	9.24	10.44	124634	328210	0.257	0.289
4) TM DBCP	13.34	14.08	1587552	4756812	0.248	0.292

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916270.D
Acq On : 10-04-19 19:49:11
Sample : 8011 3 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 70
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916271.D\ECD1A.CH Vial: 71
 Signal #2 : G:\HERBIE\DATA\190916\0916271.D\ECD2B.CH
 Acq On : 10-04-19 20:09:38 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	872350	2114508	0.458	0.517
Spiked Amount	0.350		Recovery	=	130.86%	147.71%

Target Compounds

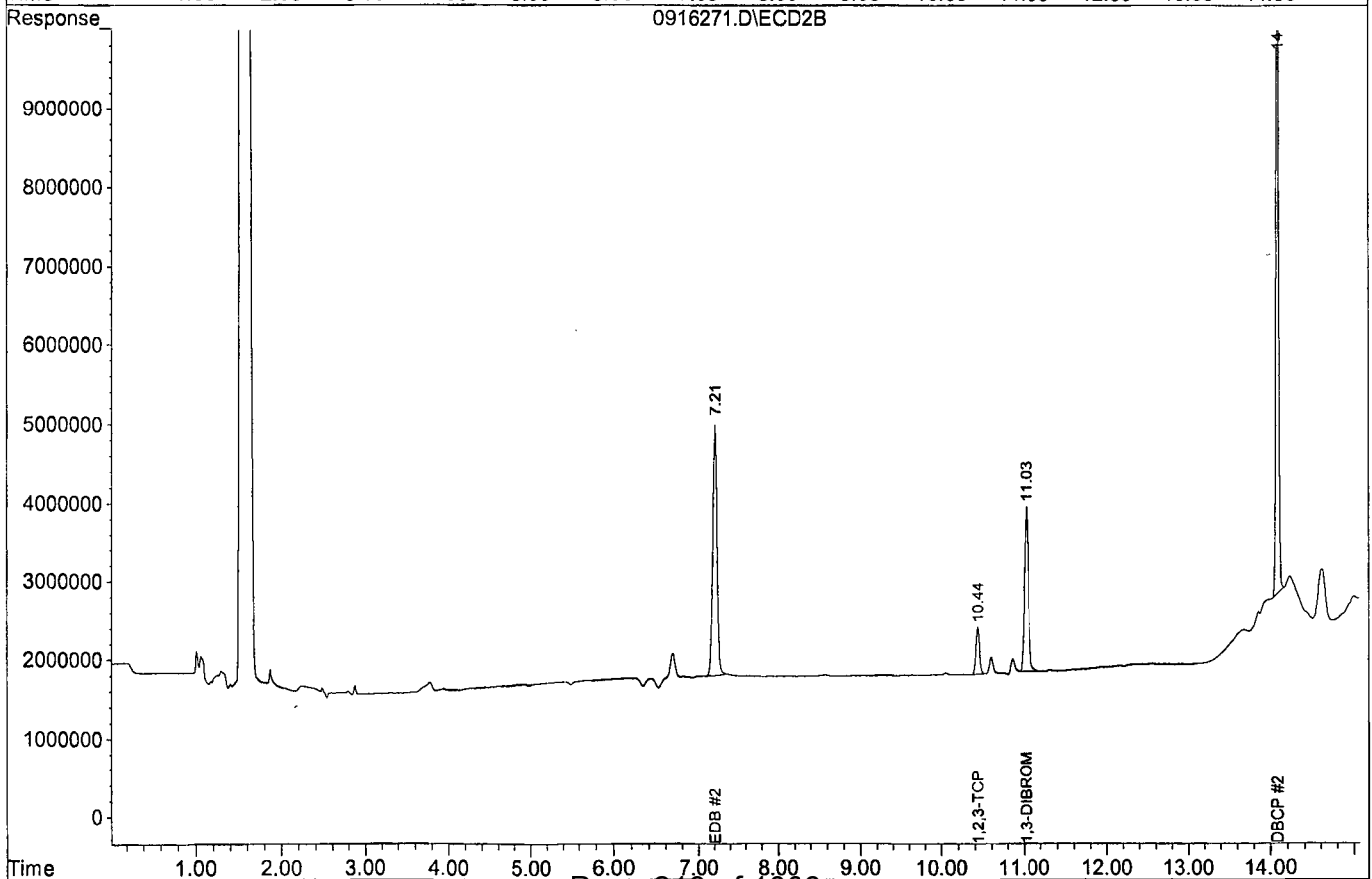
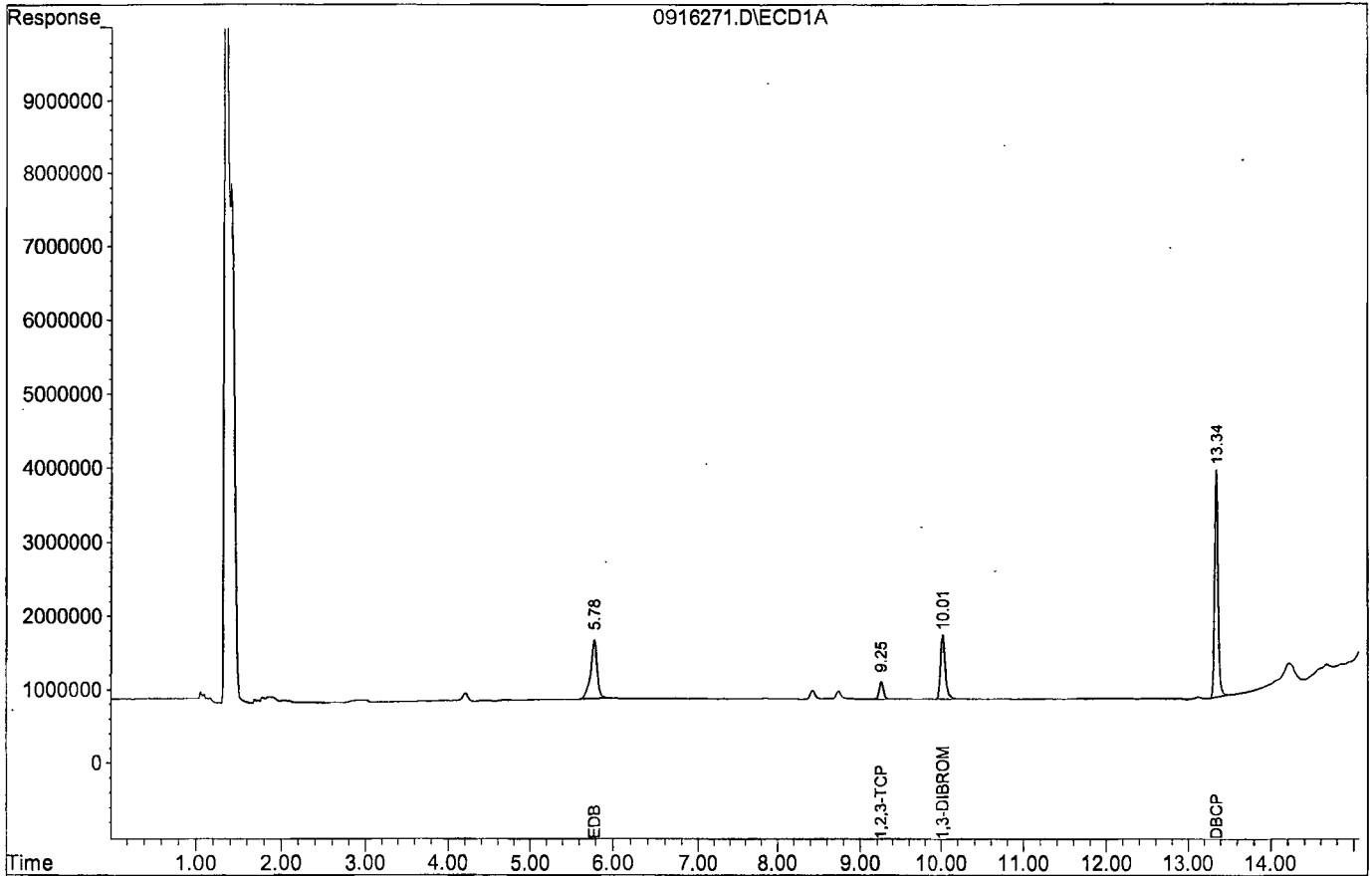
1) TM EDB	5.78	7.21	799880	3185151	0.596	0.511
2) TM 1,2,3-TCP	9.25	10.44	238118	605505	0.490	0.533
4) TM DBCP	13.34	14.08	3075688	9602001	0.481	0.590

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916271.D
Acq On : 10-04-19 20:09:38
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 71
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916272.D\ECD1A.CH Vial: 72
 Signal #2 : G:\HERBIE\DATA\190916\0916272.D\ECD2B.CH
 Acq On : 10-04-19 20:30:00 Operator: MA,SS
 Sample : 8011 5 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
----------	------	------	--------	--------	------	------

System Monitoring Compounds
 3) S 1,3-DIBROMOPROPA 10.01 11.03 1250285 3082409 0.657 0.753
 Spiked Amount 0.350 Recovery = 187.71% 215.14%

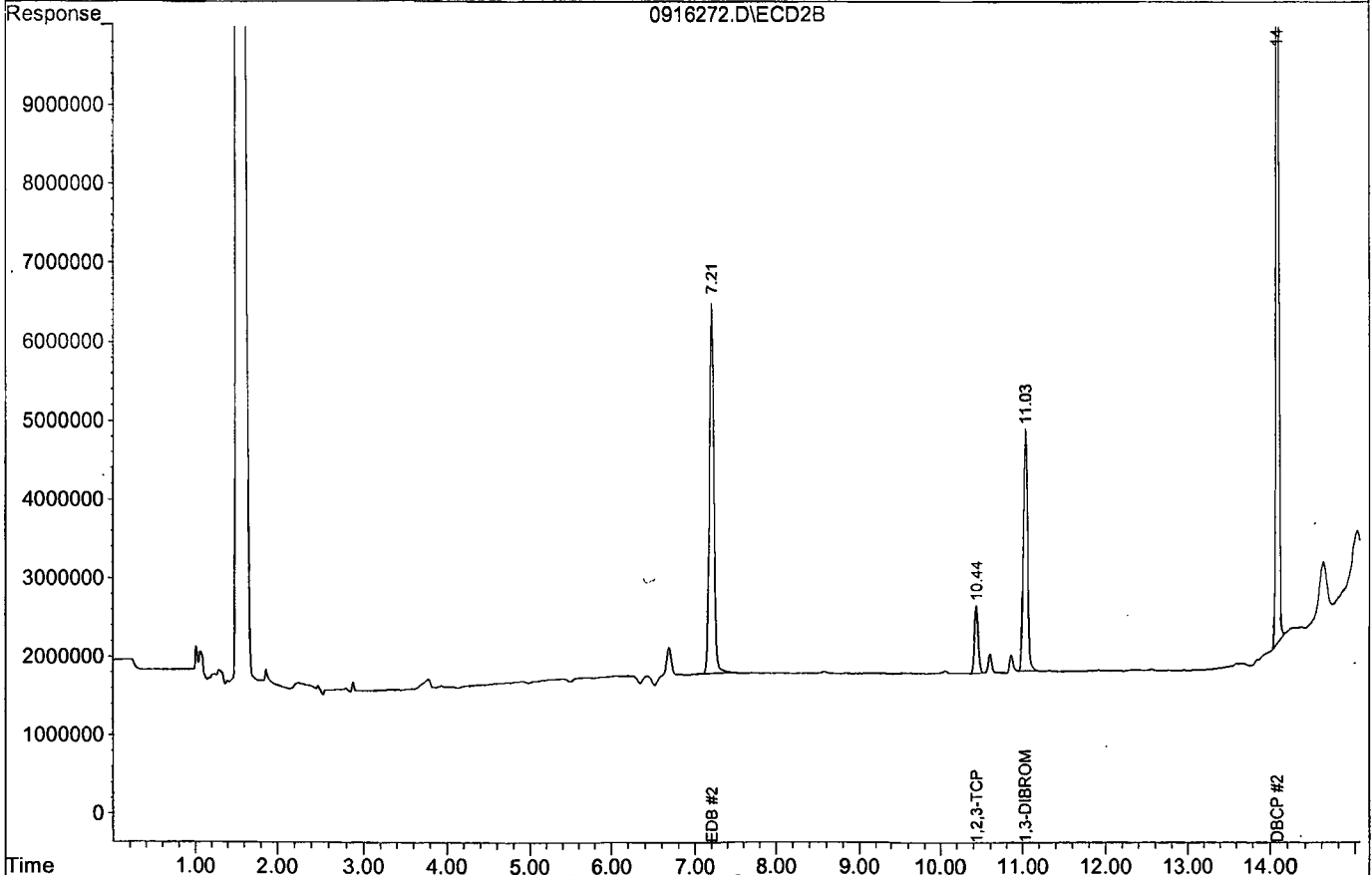
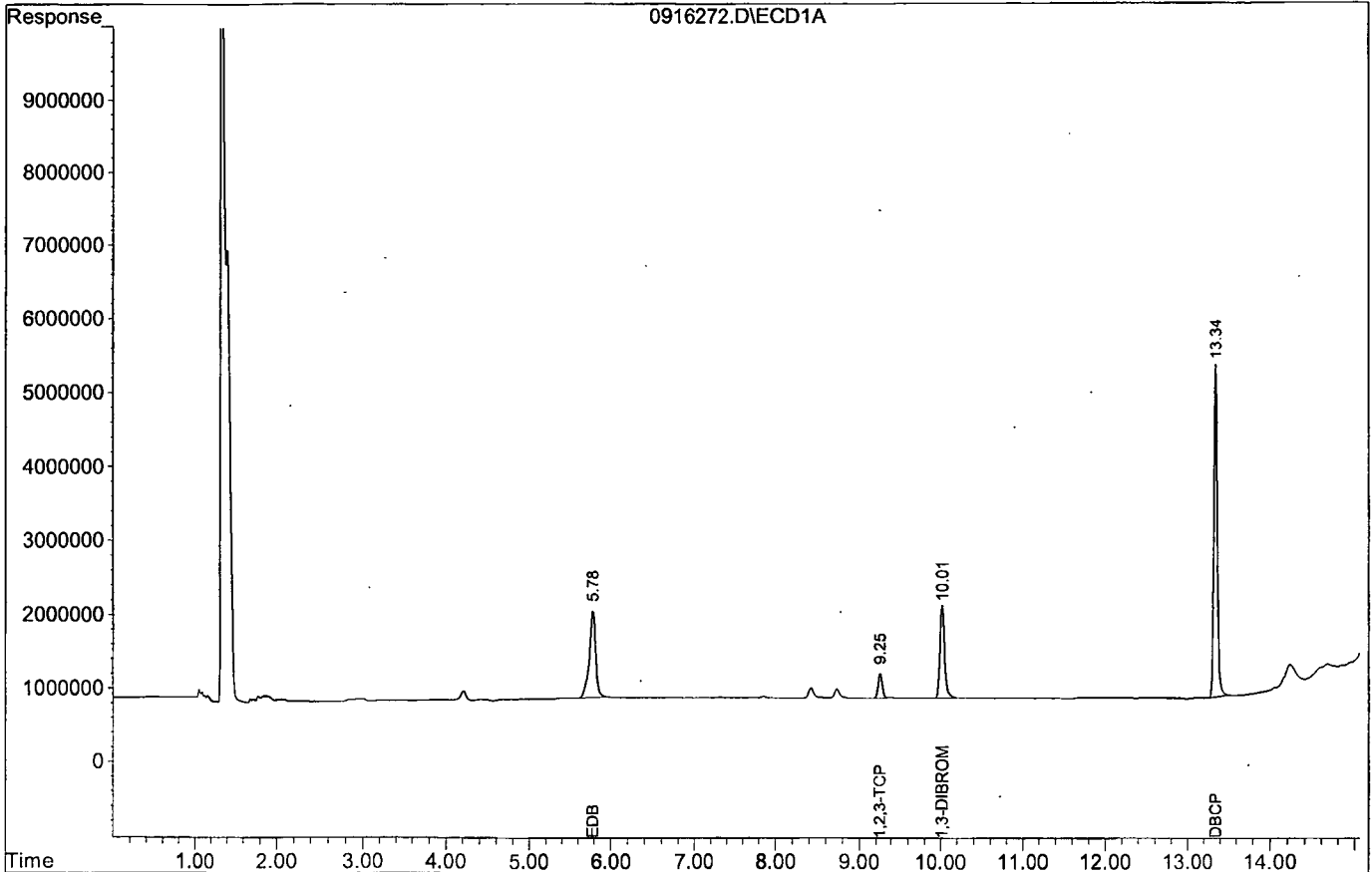
Target Compounds
 1) TM EDB 5.78 7.21 1174598 4693496 0.875 0.753
 2) TM 1,2,3-TCP 9.25 10.44 333245 867737 0.686 0.764
 4) TM DBCP 13.34 14.08 4495892 14014307 0.703 0.862

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916272.D
Acq On : 10-04-19 20:30:00
Sample : 8011 5 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

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



Signal #1 : G:\HERBIE\DATA\190916\0916273.D\ECD1A.CH Vial: 73
 Signal #2 : G:\HERBIE\DATA\190916\0916273.D\ECD2B.CH
 Acq On : 10-04-19 20:50:31 Operator: MA,SS
 Sample : 8011 6 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	1681608	4103058	0.883	1.003
Spiked Amount	0.350		Recovery	=	252.29%	286.57%

Target Compounds

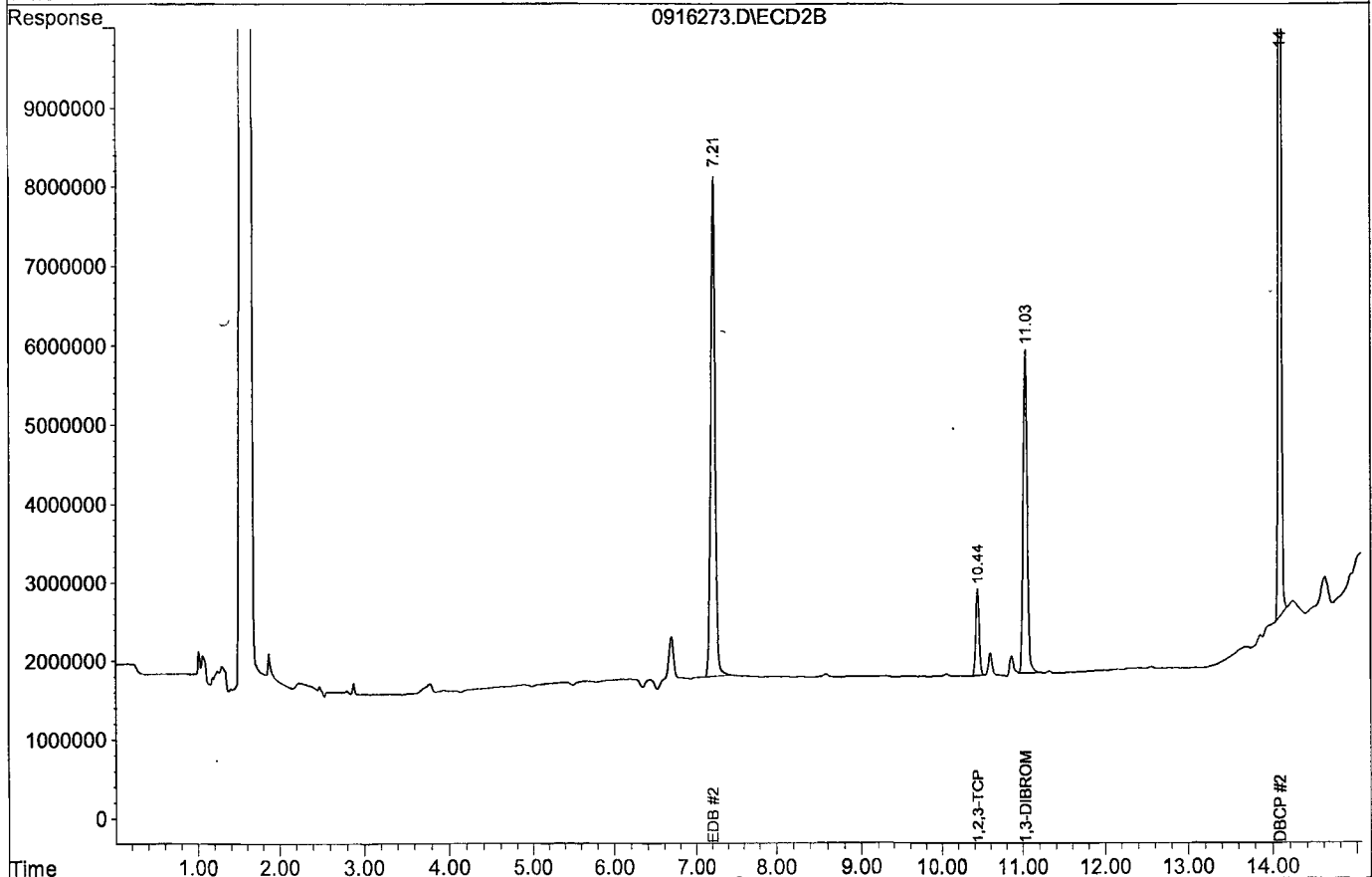
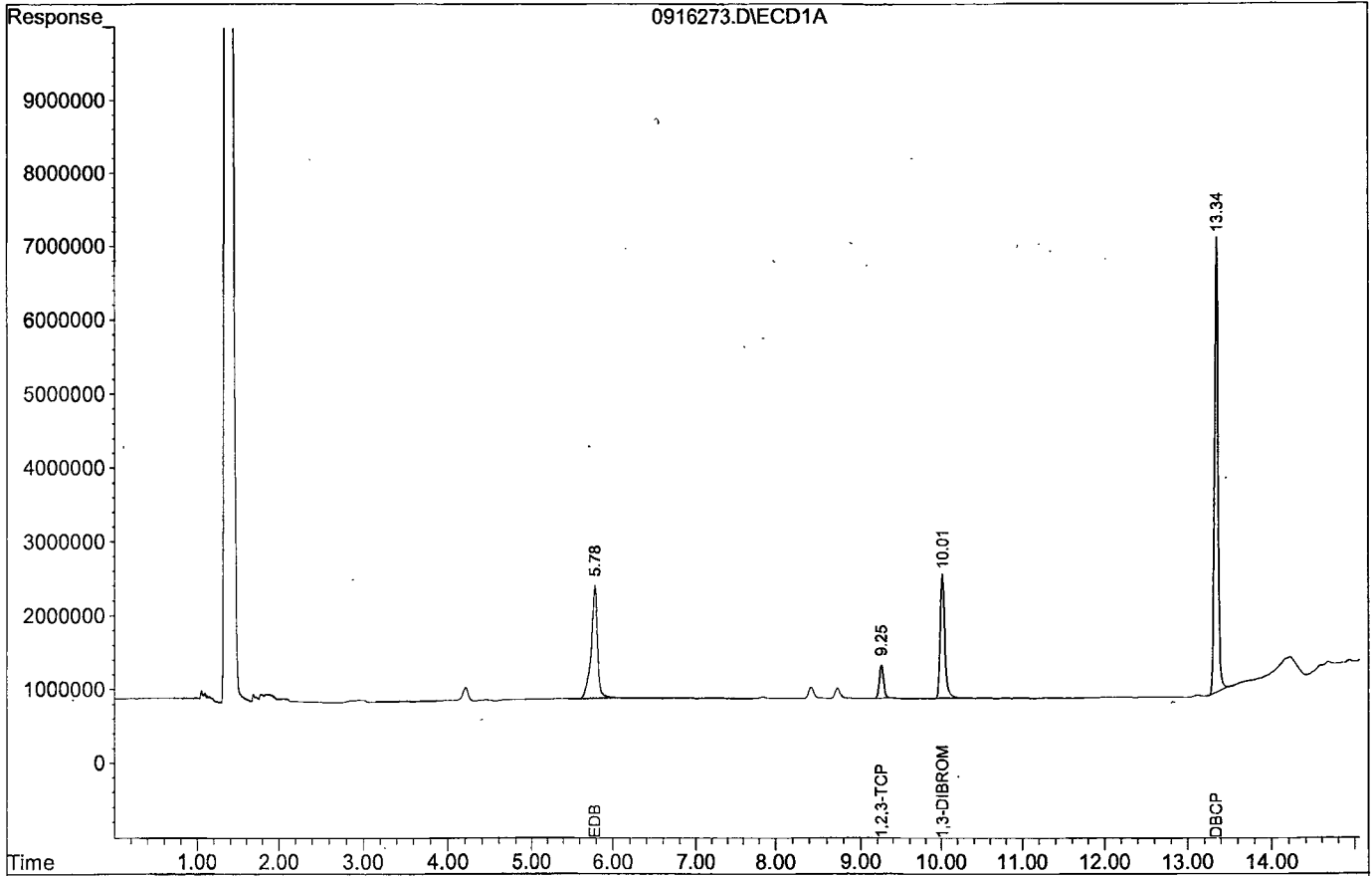
1) TM EDB	5.78	7.21	1521187	6324107	1.133	1.014
2) TM 1,2,3-TCP	9.25	10.44	444516	1109568	0.915	0.977
4) TM DBCP	13.34	14.08	6155722	19186607	0.963	1.180

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916273.D
Acq On : 10-04-19 20:50:31
Sample : 8011 6 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 73
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/04/19
Instrument: Herbie
Initial Cal. Date: 10/04/19
Data File: 0916274.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	802470	4.1	TM
2	TM	1,2,3-TCP	244943	232280	5.2	TM
3	TM	DBCP	3192970	2971730	6.9	TM
4						
5						
6						
7						
8						
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39						
40						

Average

5.4

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/04/19
Instrument: Herbie
Cal. Date: 10/04/19
Data File: 0916274.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3269020	4.3	TM
42	TM	1,2,3-TCP	633618	597545	5.7	TM
43	TM	DBCP	9617350	8954430	6.9	TM
44						
45						
46						
47						
48						
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79						
80						

Average

5.6

Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916274.D\ECD1A.CH Vial: 74
 Signal #2 : G:\HERBIE\DATA\190916\0916274.D\ECD2B.CH
 Acq On : 10-04-19 21:10:52 Operator: MA,SS
 Sample : 8011 SS 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

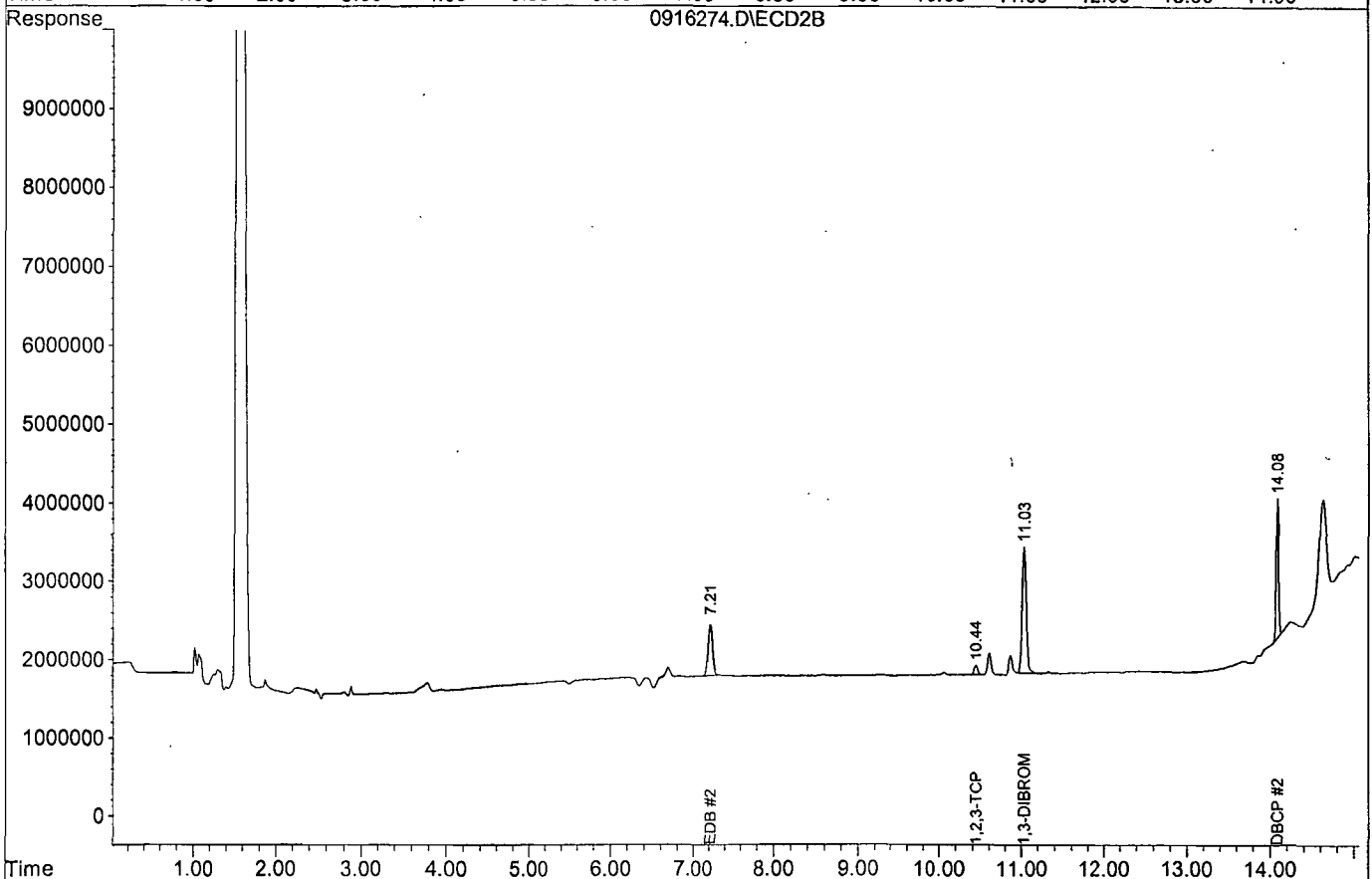
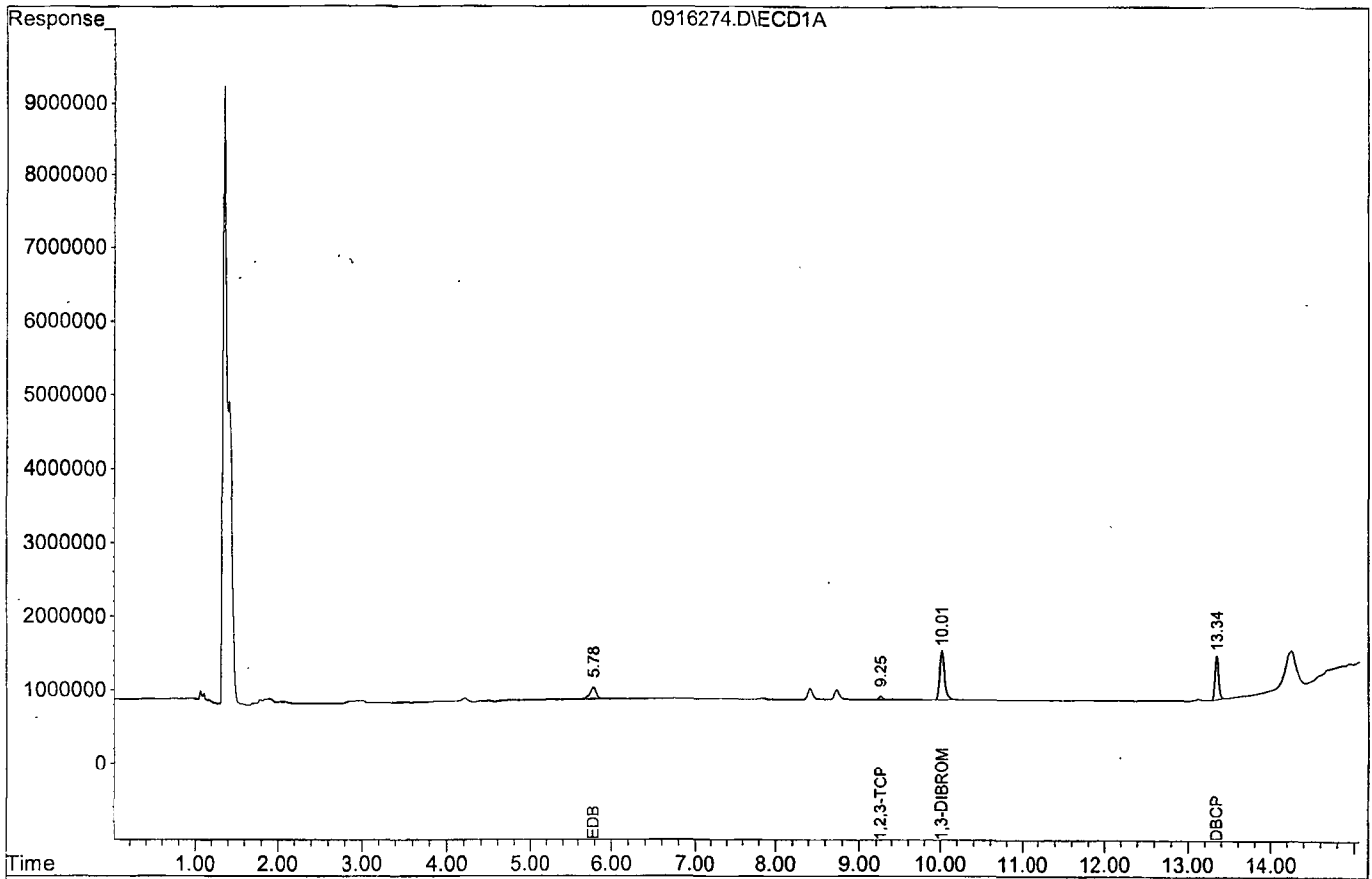
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	666463	1624406	0.350	0.397
Spiked Amount	0.350		Recovery	=	100.00%	113.43%
Target Compounds						
1) TM EDB	5.78	7.21	160494	653803	0.120	0.105
2) TM 1,2,3-TCP	9.25	10.44	46456	119509	0.096	0.105
4) TM DBCP	13.34	14.08	594345	1790886	0.093	0.110

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916274.D
Acq On : 10-04-19 21:10:52
Sample : 8011 SS 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 74
Operator: MA, SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: Water

Instrument: Herbie

Initial Cal. Date: 10/04/19

Data File: 1025067.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	826713	1.2	TM
2	TM	1,2,3-TCP	244943	229783	6.2	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	855894	6.1	S
4	TM	DBCP	3192970	2986610	6.5	TM
5						
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7						
8						
9						
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39						
40		Average			5.0	

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: Water

Instrument: Herbie

Cal. Date: 10/04/19

Data File: 1025067.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3308900	3.1	TM
42	TM	1,2,3-TCP	633618	615052	2.9	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2169670	1.6	S
44	TM	DBCP	9617350	10380400	7.9	TM
45						
46						
47						
48						
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80		Average			3.9	

Signal #1 : G:\HERBIE\DATA\191025\1025067.D\ECD1A.CH Vial: 67
 Signal #2 : G:\HERBIE\DATA\191025\1025067.D\ECD2B.CH
 Acq On : 10-29-19 20:29:50 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 8:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	855894	2169672	0.469	0.492
Spiked Amount	0.350		Recovery	=	134.00%	140.57%

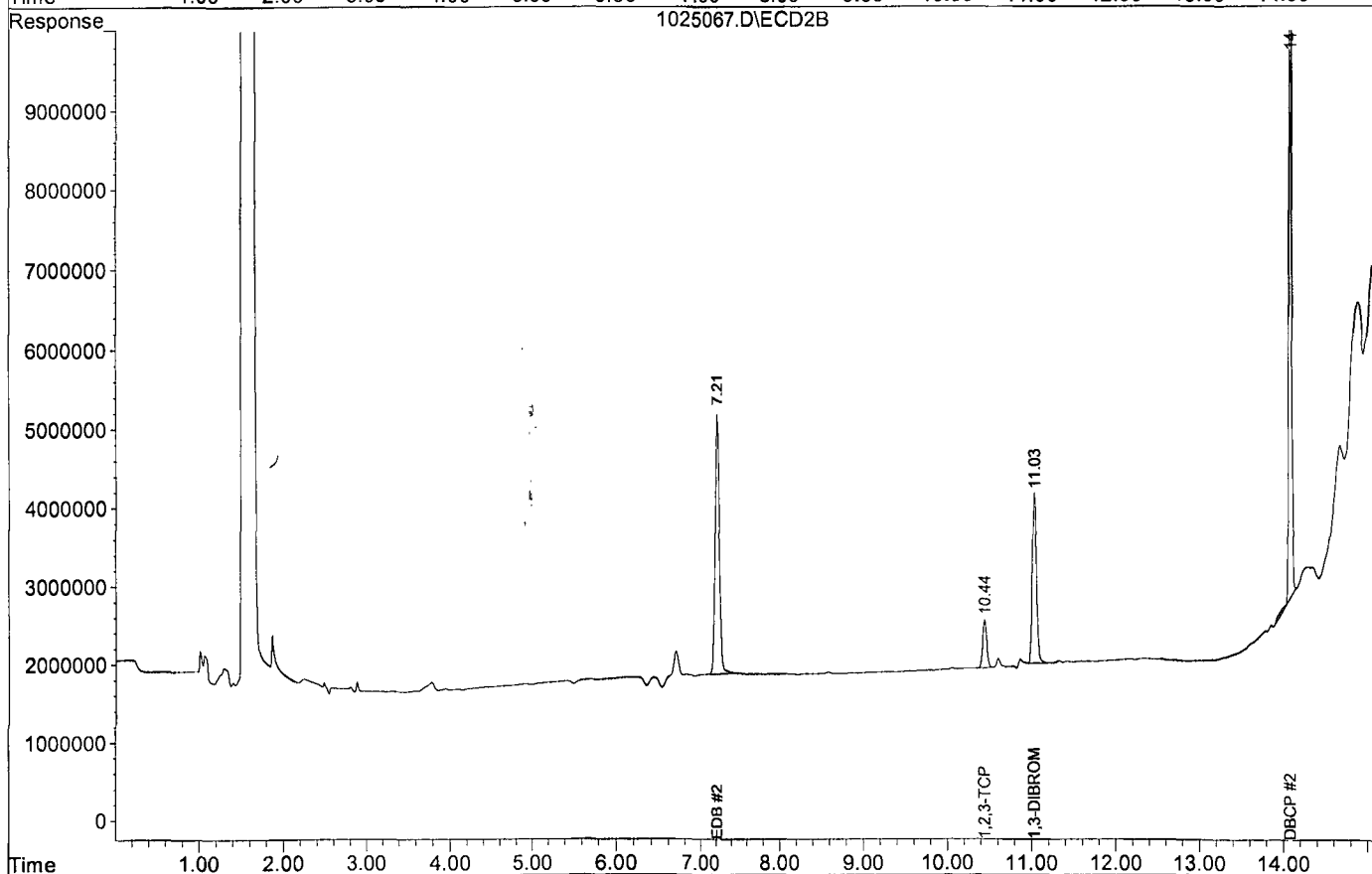
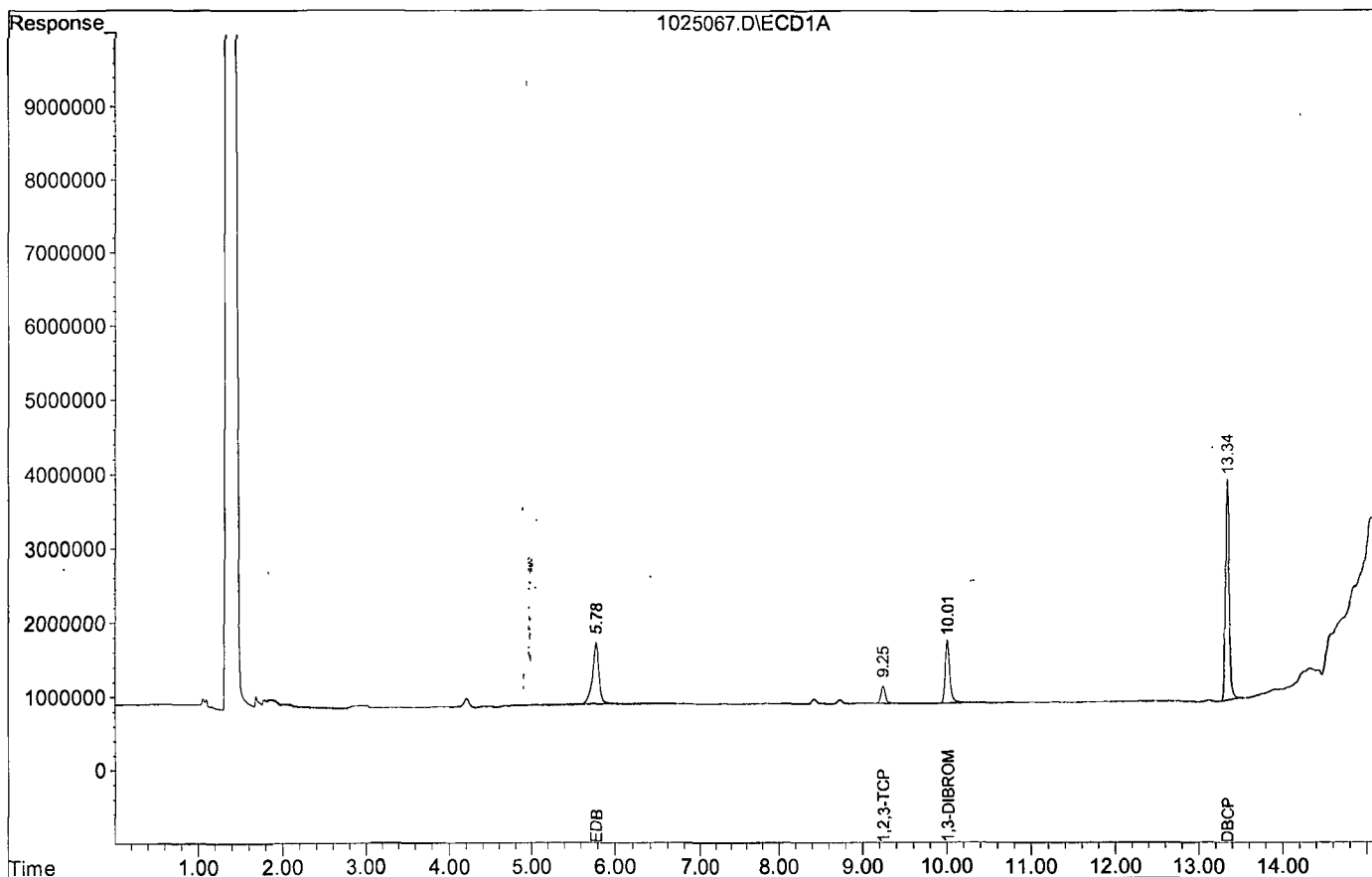
Target Compounds

1) TM EDB	5.78	7.21	826713	3308899	0.494	0.484
2) TM 1,2,3-TCP	9.25	10.44	229783	615052	0.469	0.485
4) TM DBCP	13.34	14.08	2986614	10380374	0.468	0.540

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025067.D
Acq On : 10-29-19 20:29:50
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 67
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/19

Matrix: Water

Instrument: Herbie

Initial Cal. Date: 10/04/19

Data File: 1025081.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	809069	3.4	TM
2	TM	1,2,3-TCP	244943	231093	5.7	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	903845	0.89	S
4	TM	DBCP	3192970	3030860	5.1	TM
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40						

Average

3.8

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/19

Matrix: Water

Instrument: Herbie

Cal. Date: 10/04/19

Data File: 1025081.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3298620	3.4	TM
42	TM	1,2,3-TCP	633618	630069	0.56	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2232390	1.3	S
44	TM	DBCP	9617350	10650400	11	TM
45						
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47						
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80		Average			4.1	

Signal #1 : G:\HERBIE\DATA\191025\1025081.D\ECD1A.CH Vial: 81
 Signal #2 : G:\HERBIE\DATA\191025\1025081.D\ECD2B.CH
 Acq On : 10-30-19 1:10:19 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 8:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

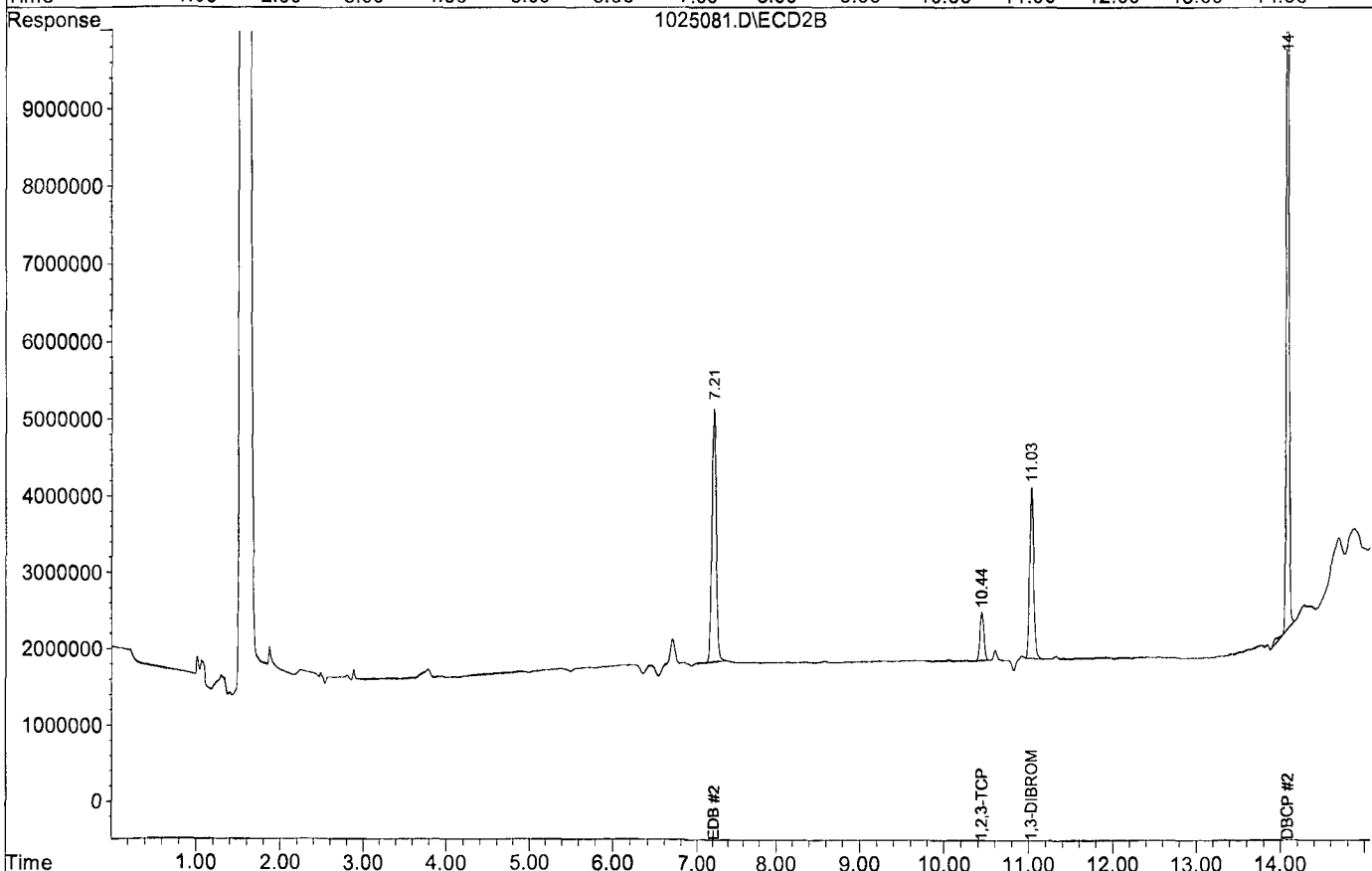
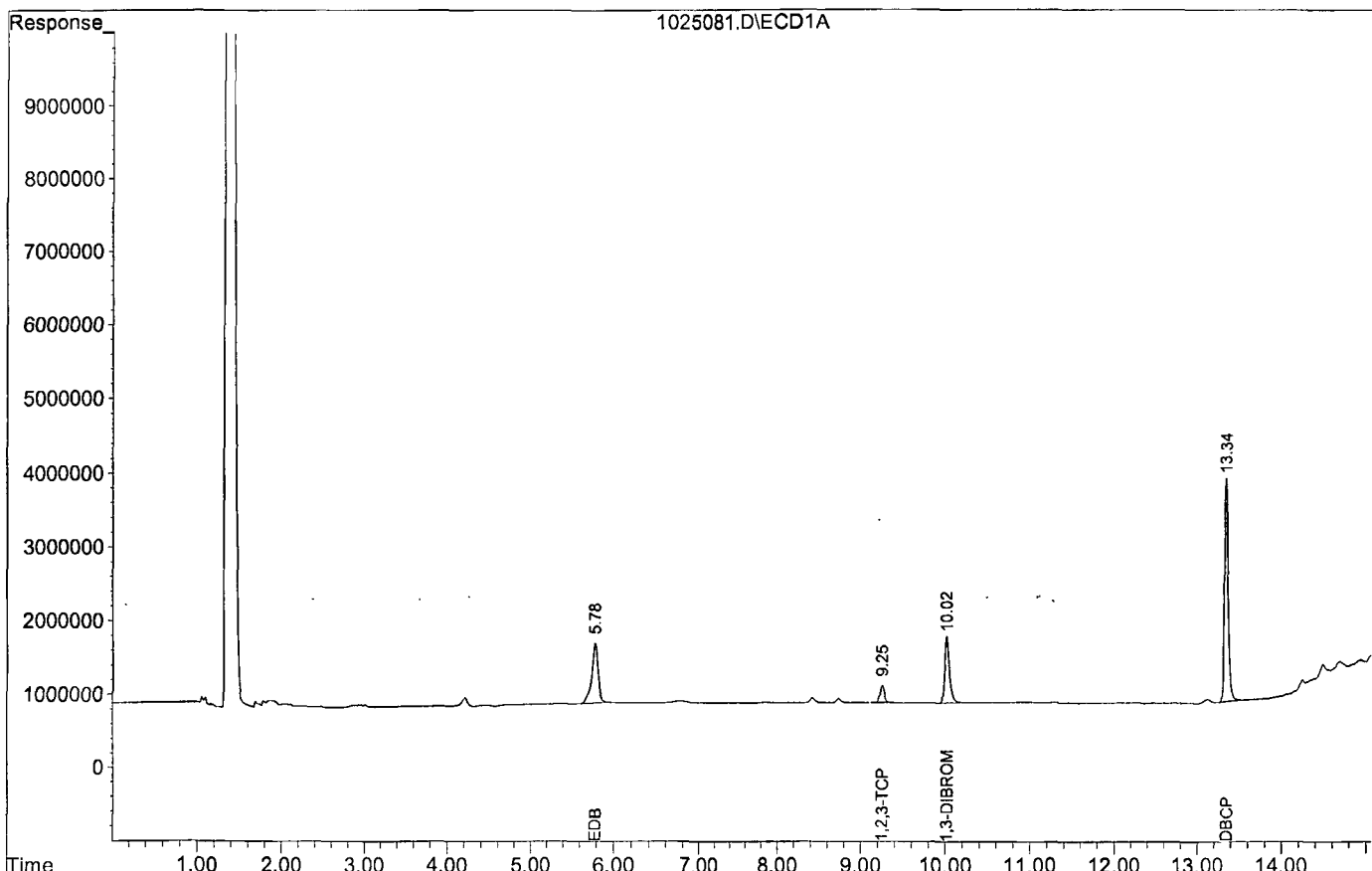
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	903845	2232392	0.496	0.506
Spiked Amount	0.350		Recovery	=	141.71%	144.57%
Target Compounds						
1) TM EDB	5.78	7.21	809069	3298623	0.483	0.483
2) TM 1,2,3-TCP	9.25	10.44	231093	630069	0.472	0.497
4) TM DBCP	13.34	14.08	3030855	10650388	0.475	0.554

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025081.D
Acq On : 10-30-19 1:10:19
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 81
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/19

Matrix: Water

Instrument: Herbie

Initial Cal. Date: 10/04/19

Data File: 1025105.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	924550	10	TM
2	TM	1,2,3-TCP	244943	244375	0.23	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	1000080	9.7	S
4	TM	DBCP	3192970	2986390	6.5	TM
5						
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9						
10						
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14						
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39						
40						

Average

6.6

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/19

Matrix: Water

Instrument: Herbie

Cal. Date: 10/04/19

Data File: 1025105.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3642790	6.7	TM
42	TM	1,2,3-TCP	633618	708640	12	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2463170	12	S
44	TM	DBCP	9617350	10379800	7.9	TM
45						
46						
47						
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79						
80		Average			9.7	

Signal #1 : G:\HERBIE\DATA\191025\1025105.D\ECD1A.CH Vial: 5
 Signal #2 : G:\HERBIE\DATA\191025\1025105.D\ECD2B.CH
 Acq On : 10-31-19 21:38:04 Operator: MA,SS
 Sample : 8011 2 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 1 12:04 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

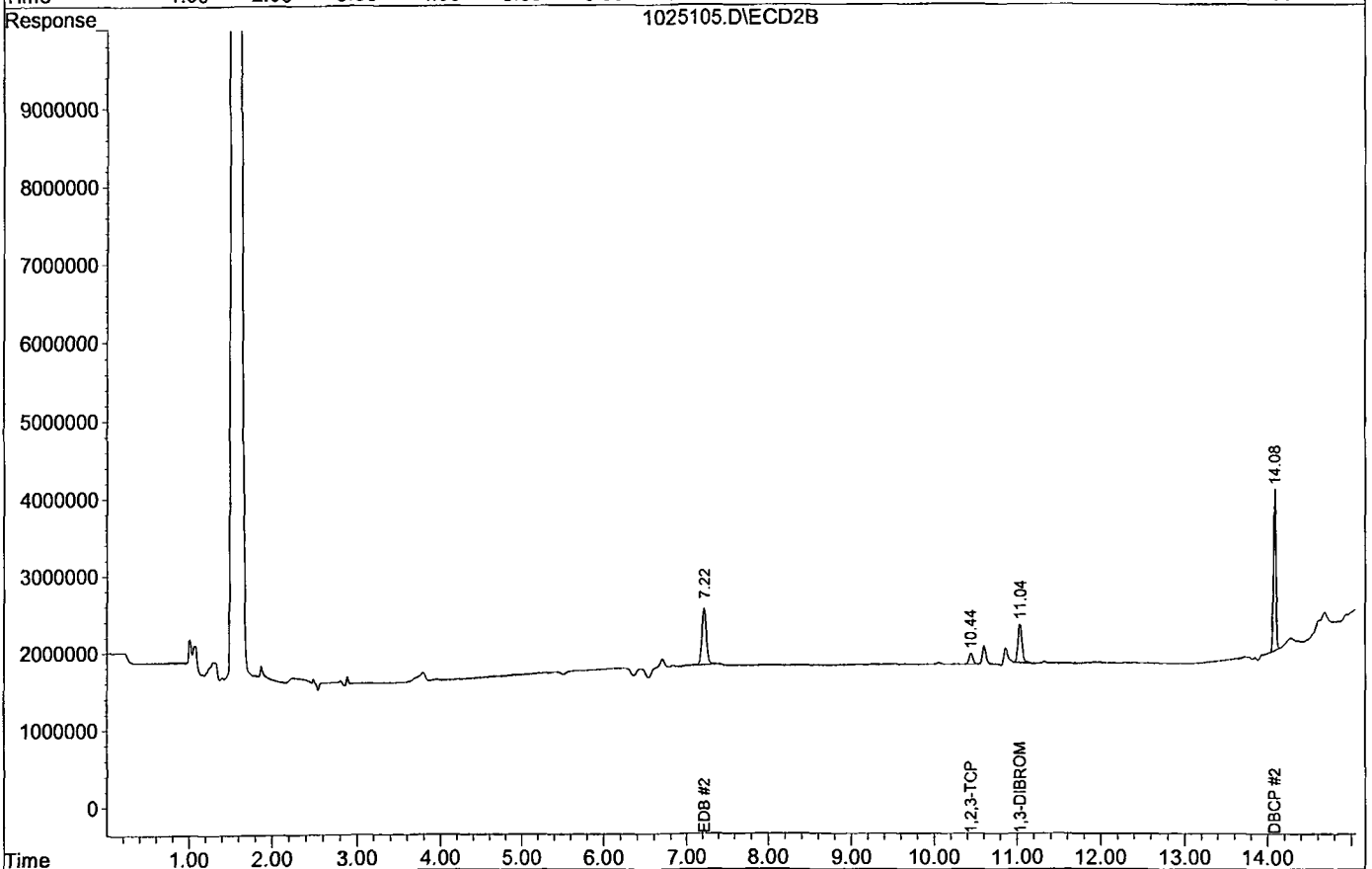
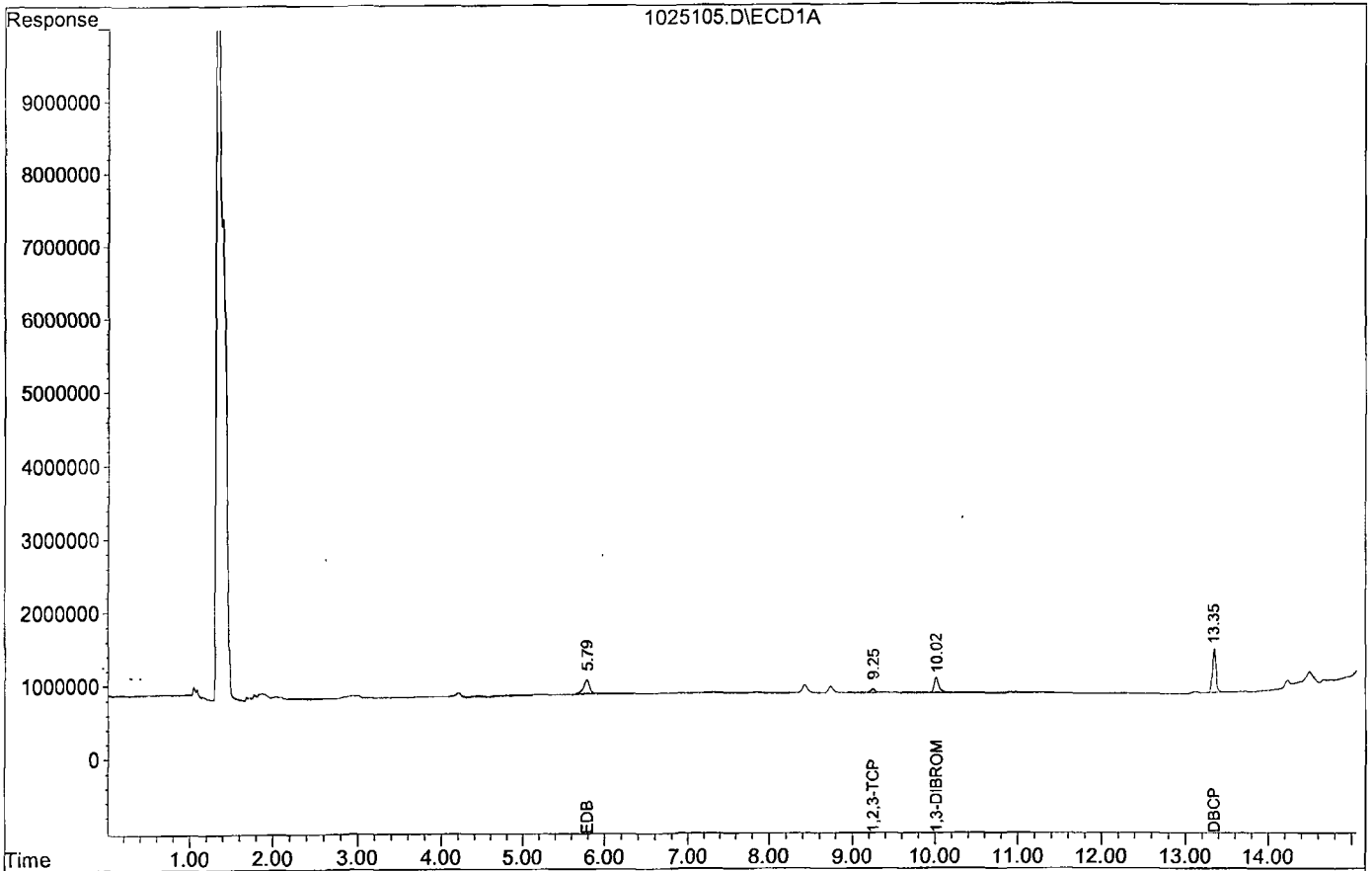
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.04	200015	492633	0.110	0.112
Spiked Amount	0.350		Recovery	=	31.43%	32.00%
Target Compounds						
1) TM EDB	5.79	7.22	184910	728558	0.110	0.107
2) TM 1,2,3-TCP	9.25	10.44	48875	.141728	0.100	0.112
4) TM DBCP	13.35	14.08	597277	2075962	0.094	0.108

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025105.D
Acq On : 10-31-19 21:38:04
Sample : 8011 2 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

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



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 11/01/19

Matrix: Water

Instrument: Herbie

Initial Cal. Date: 10/04/19

Data File: 1025113.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	920745	10	TM
2	TM	1,2,3-TCP	244943	258900	5.7	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	1045000	15	S
4	TM	DBCP	3192970	3135630	1.8	TM
5						
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39						
40		Average			8.1	

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 11/01/19

Matrix: Water

Instrument: Herbie

Cal. Date: 10/04/19

Data File: 1025113.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3664800	7.3	TM
42	TM	1,2,3-TCP	633618	690030	8.9	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2477380	12	S
44	TM	DBCP	9617350	10730400	12	TM
45						
46						
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80		Average			10.1	

Signal #1 : G:\HERBIE\DATA\191025\1025113.D\ECD1A.CH Vial: 13
 Signal #2 : G:\HERBIE\DATA\191025\1025113.D\ECD2B.CH
 Acq On : 11-01-19 0:17:46 Operator: MA,SS
 Sample : 8011 2 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 1 12:05 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

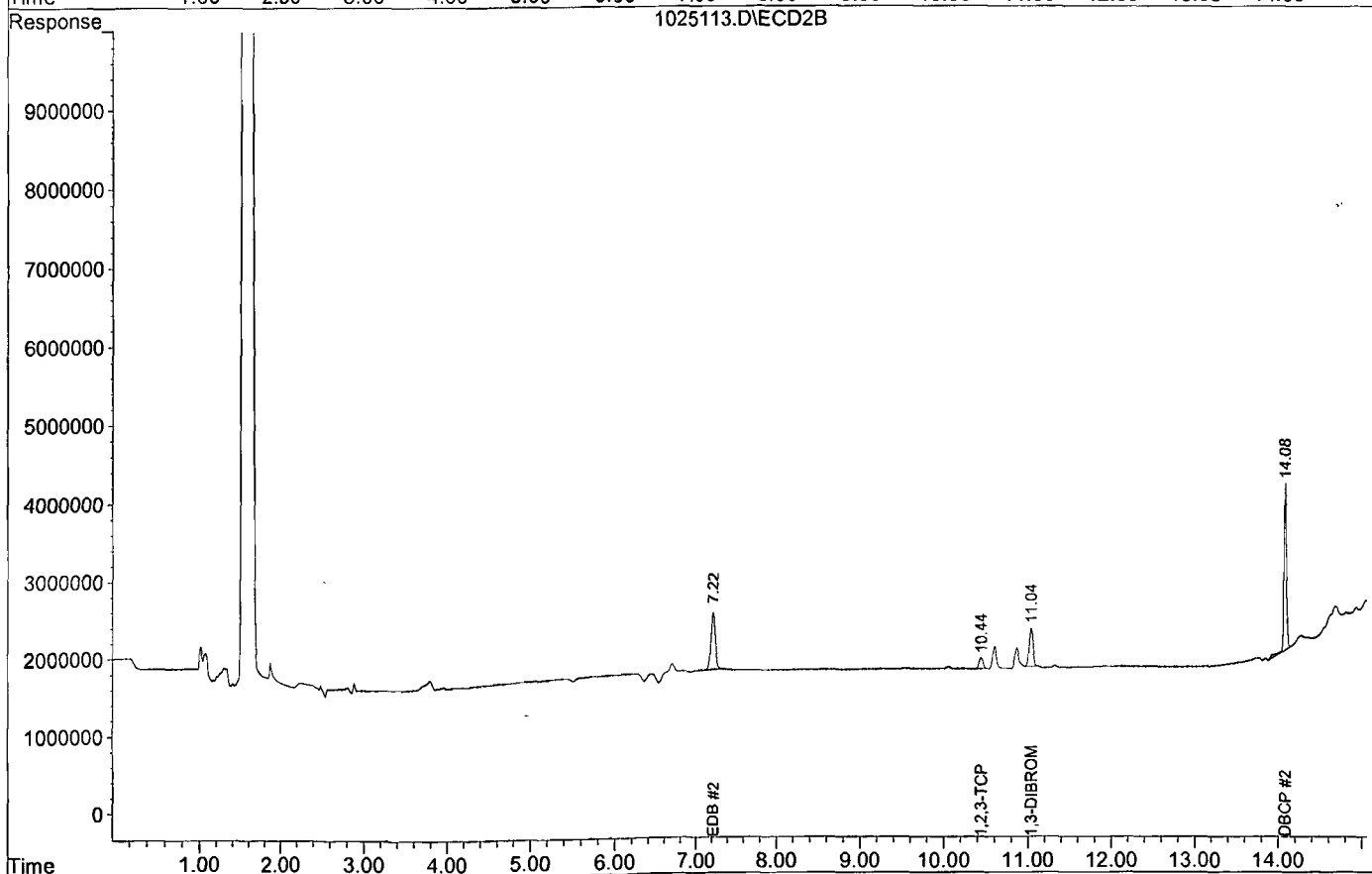
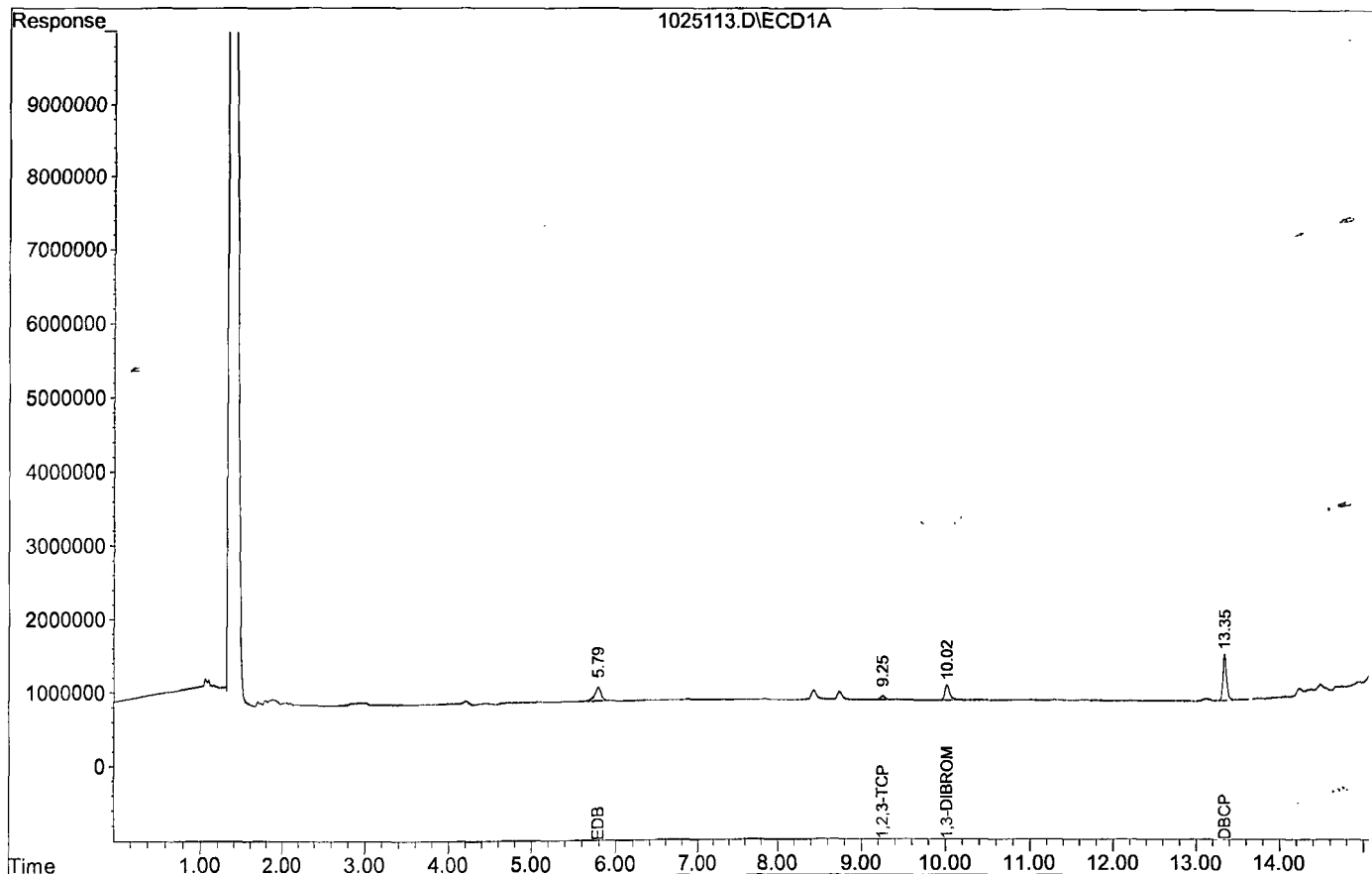
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.04	209000	495475	0.115	0.112
Spiked Amount	0.350		Recovery	=	32.86%	32.00%
Target Compounds						
1) TM EDB	5.79	7.22	184149	732960	0.110	0.107
2) TM 1,2,3-TCP	9.25	10.44	51780	138006	0.106	0.109
4) TM DBCP	13.35	14.08	627126	2146074	0.098	0.112

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025113.D
Acq On : 11-01-19 0:17:46
Sample : 8011 2 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 13
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



ORGANICS
Raw Data

Signal #1 : G:\HERBIE\DATA\191025\1025077.D\ECD1A.CH Vial: 77
 Signal #2 : G:\HERBIE\DATA\191025\1025077.D\ECD2B.CH
 Acq On : 10-29-19 23:50:21 Operator: MA,SS
 Sample : BA01780W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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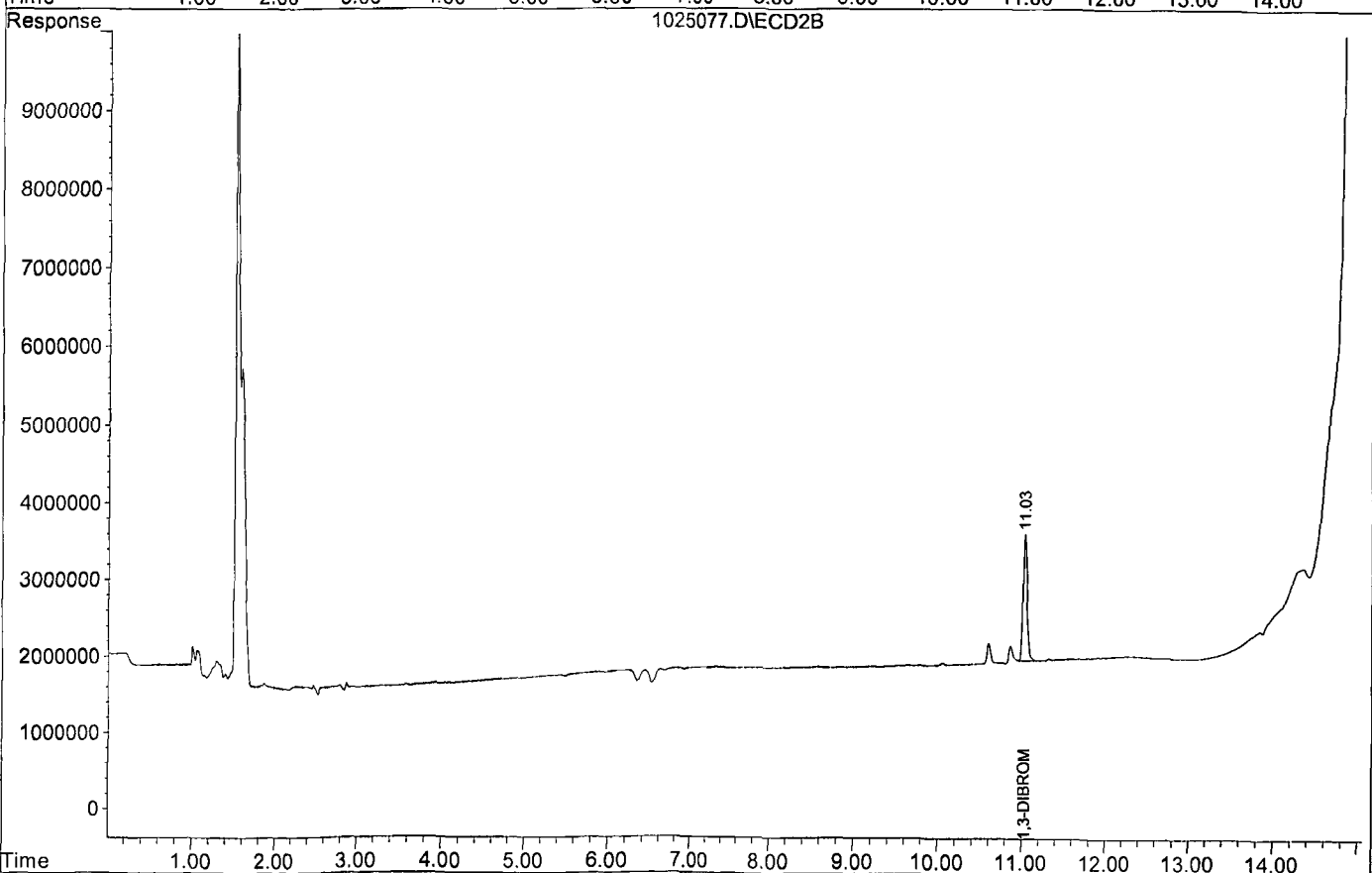
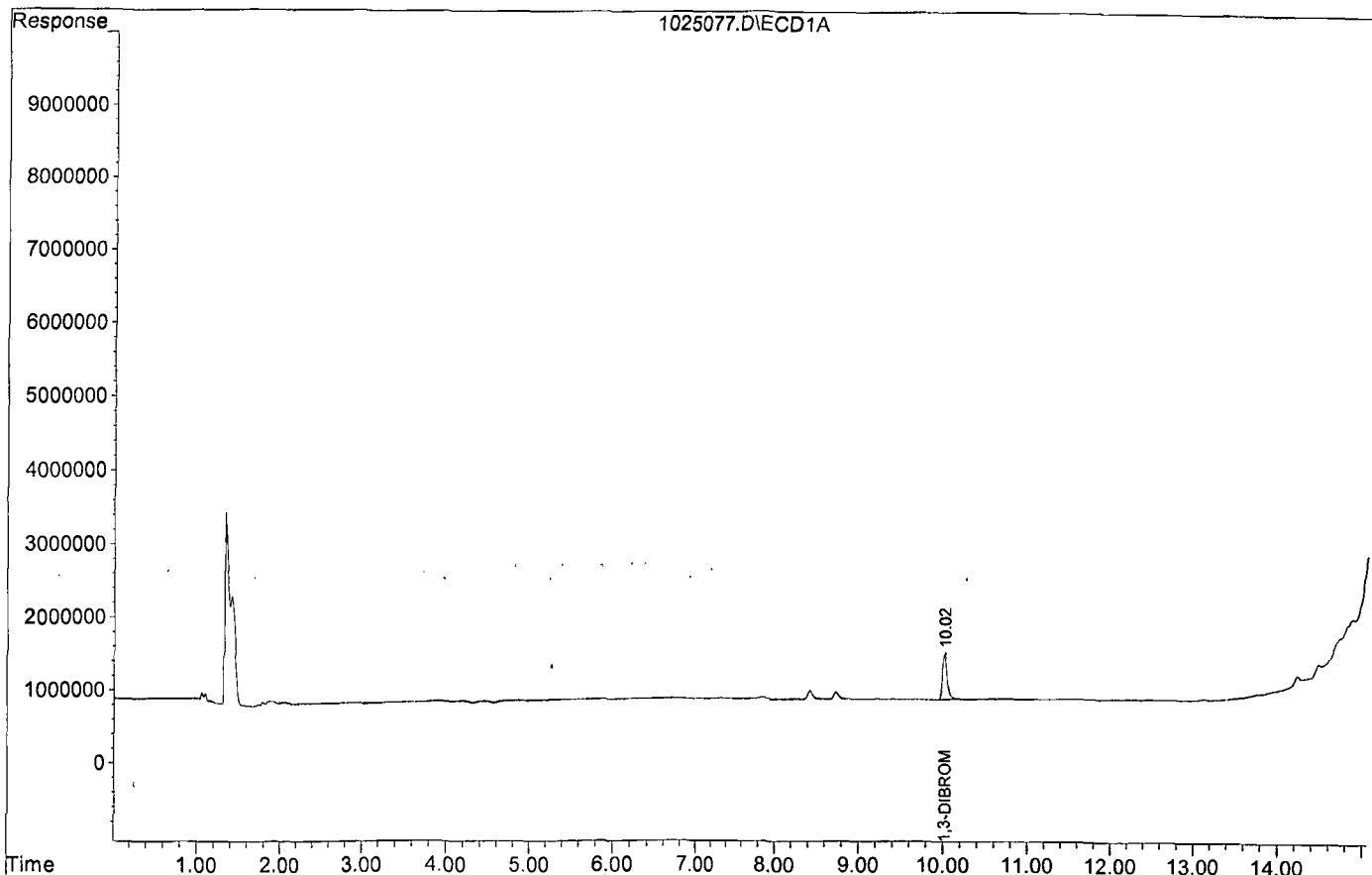
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.02	11.03	647313	1644198	0.351	0.369
	Spiked Amount	0.347		Recovery	=	101.26%	106.45%

Target Compounds

Target Compounds							
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025077.D
Acq On : 10-29-19 23:50:21
Sample : BA01780W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 77
Operator: MA, SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\191025\1025078.D\ECD1A.CH Vial: 78
 Signal #2 : G:\HERBIE\DATA\191025\1025078.D\ECD2B.CH
 Acq On : 10-30-19 0:10:21 Operator: MA,SS
 Sample : BA01781W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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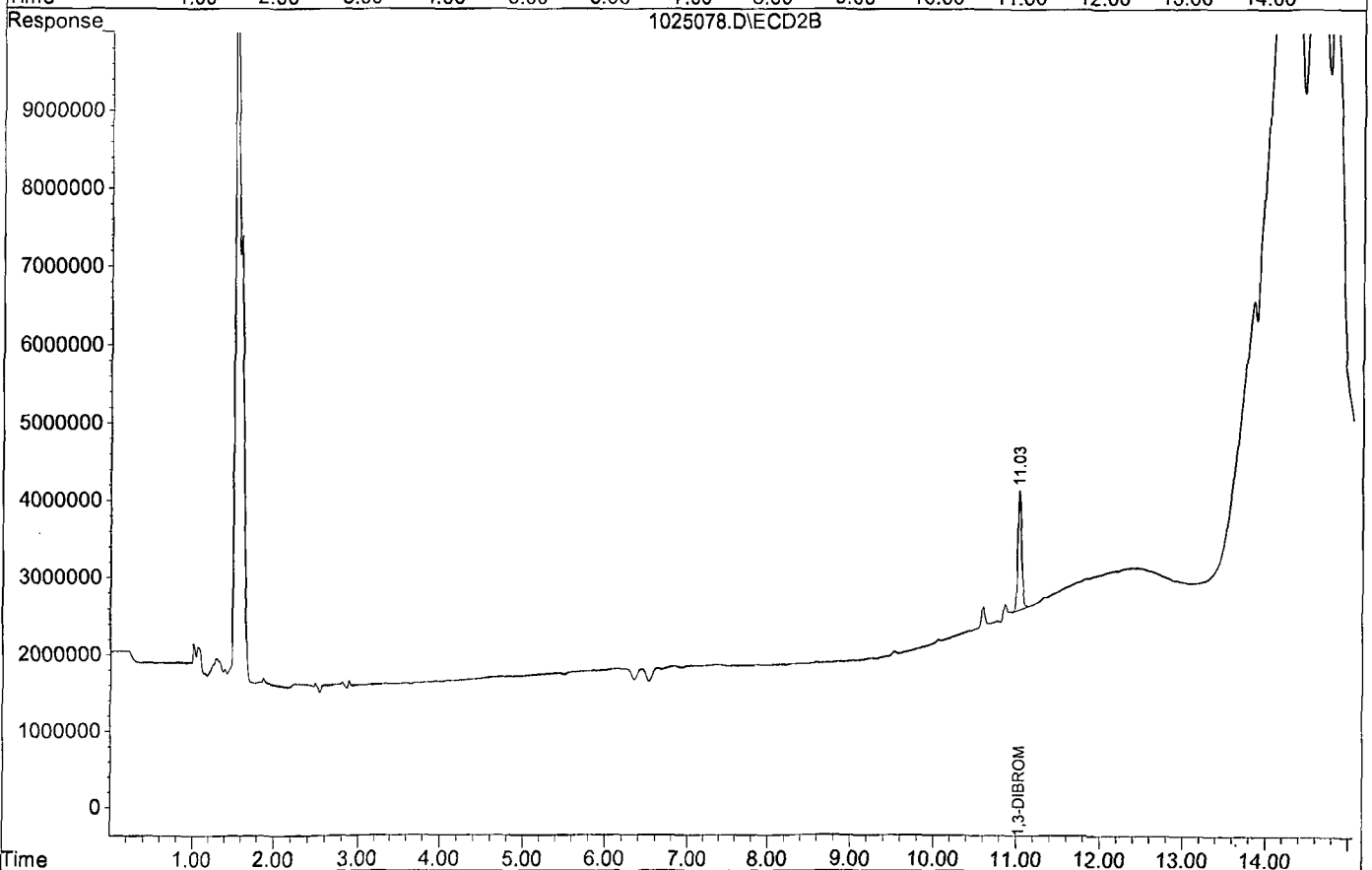
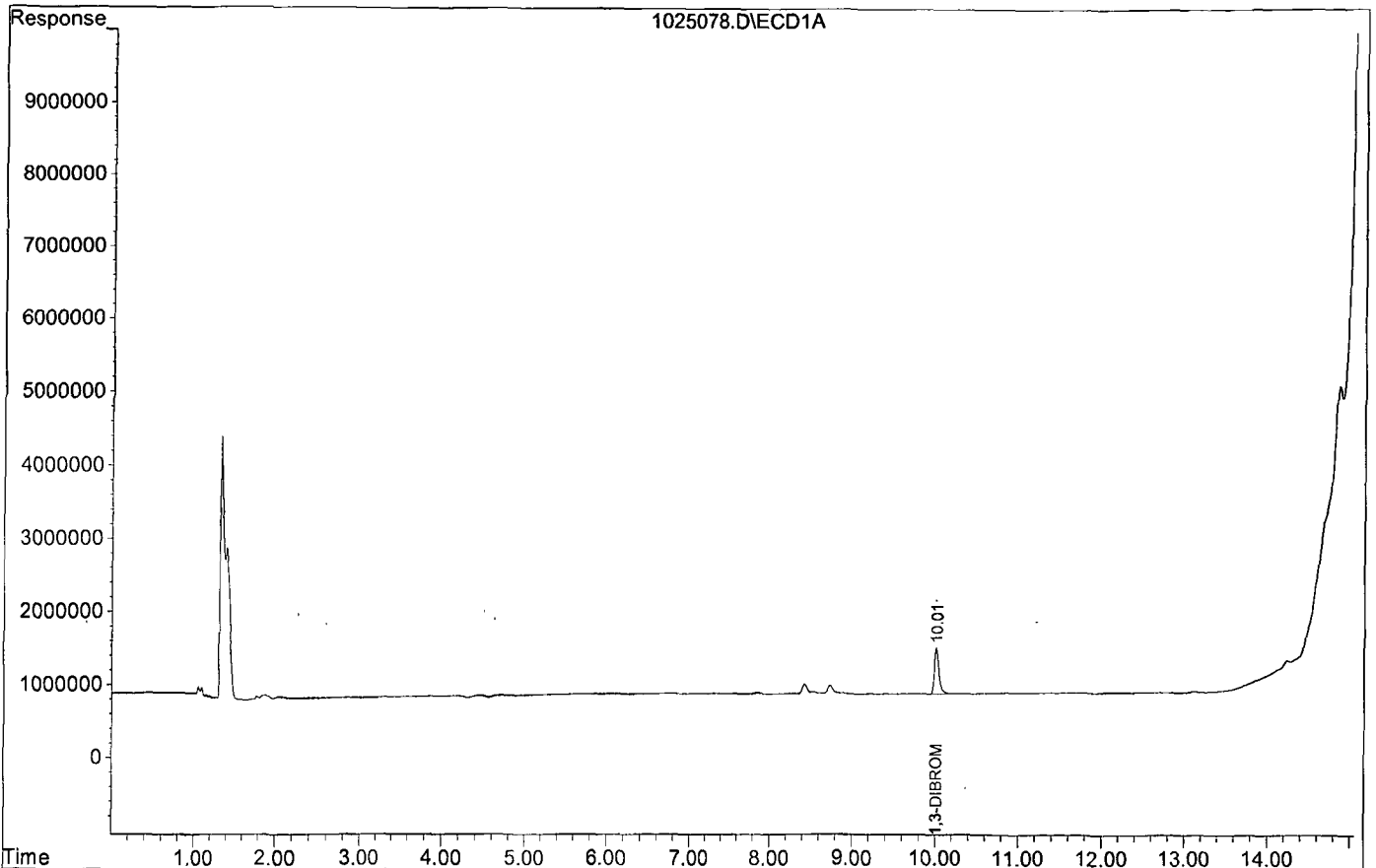
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	632489	1550383	0.345	0.350
	Spiked Amount	0.348		Recovery	=	99.11%	100.54%

Target Compounds

Target Compounds							
		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025078.D
Acq On : 10-30-19 0:10:21
Sample : BA01781W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 78
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\191025\1025079.D\ECD1A.CH Vial: 79
 Signal #2 : G:\HERBIE\DATA\191025\1025079.D\ECD2B.CH
 Acq On : 10-30-19 0:30:27 Operator: MA,SS
 Sample : BA01782W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:21 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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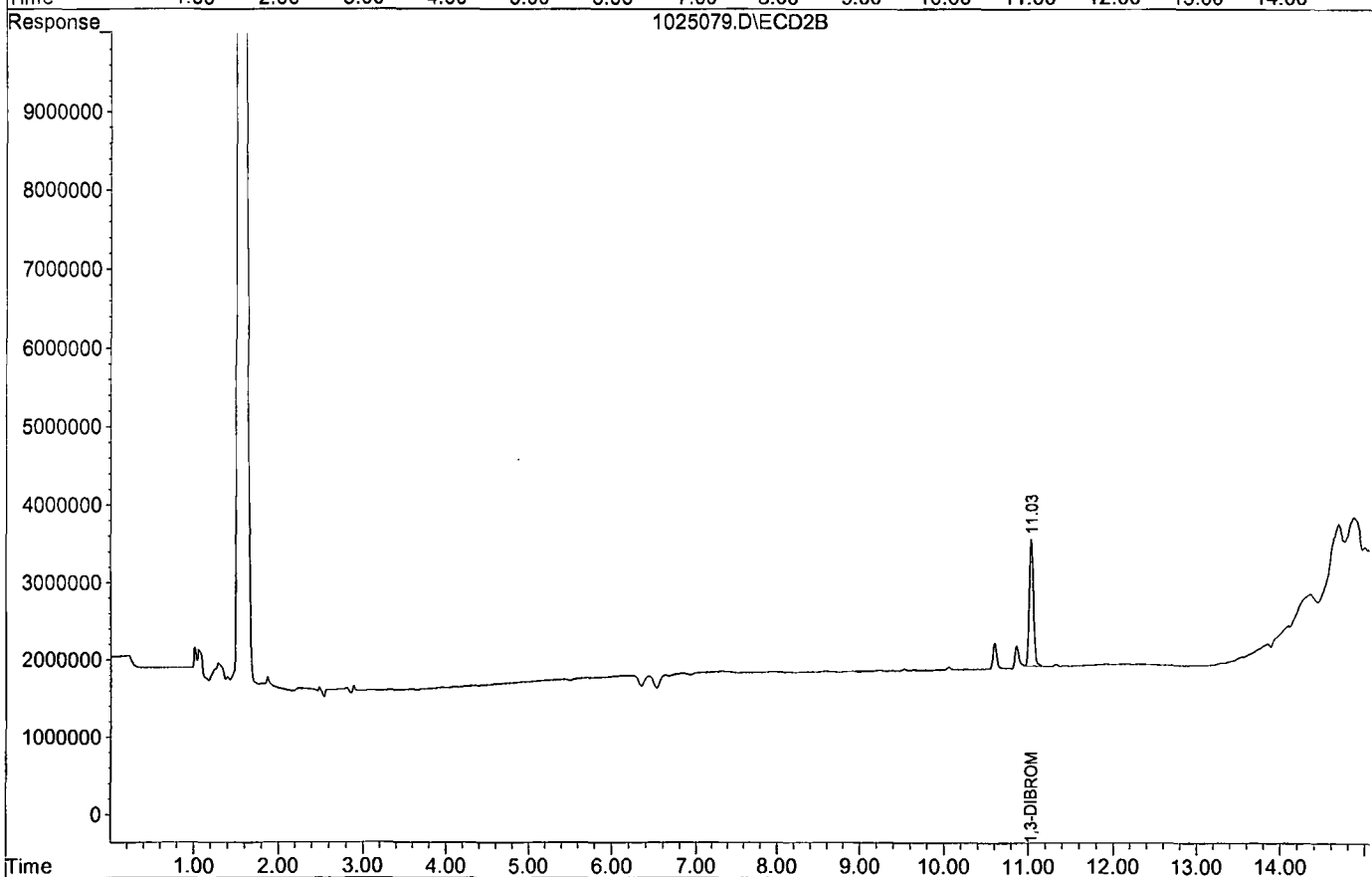
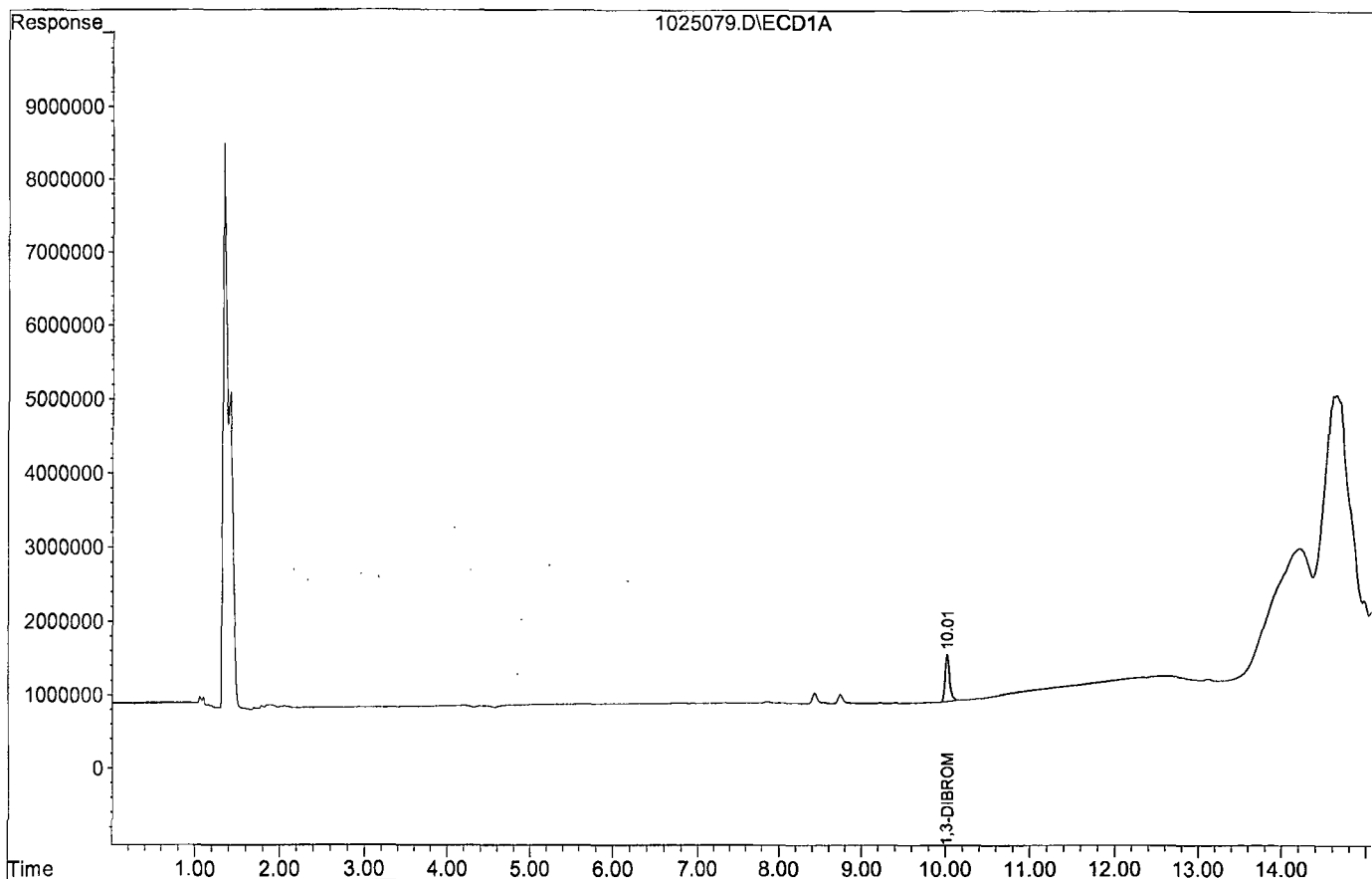
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	639594	1647793	0.349	0.372
	Spiked Amount	0.348		Recovery	=	100.28%	106.89%

Target Compounds

Target Compounds							
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1)	TM EDB	0.00	0.00	0	0	N.D. d	N.D. d
2)	TM 1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4)	TM DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025079.D
Acq On : 10-30-19 0:30:27
Sample : BA01782W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 79
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\191025\1025109.D\ECD1A.CH Vial: 9
 Signal #2 : G:\HERBIE\DATA\191025\1025109.D\ECD2B.CH
 Acq On : 10-31-19 22:57:54 Operator: MA,SS
 Sample : BA01783W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.98
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 5 9:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

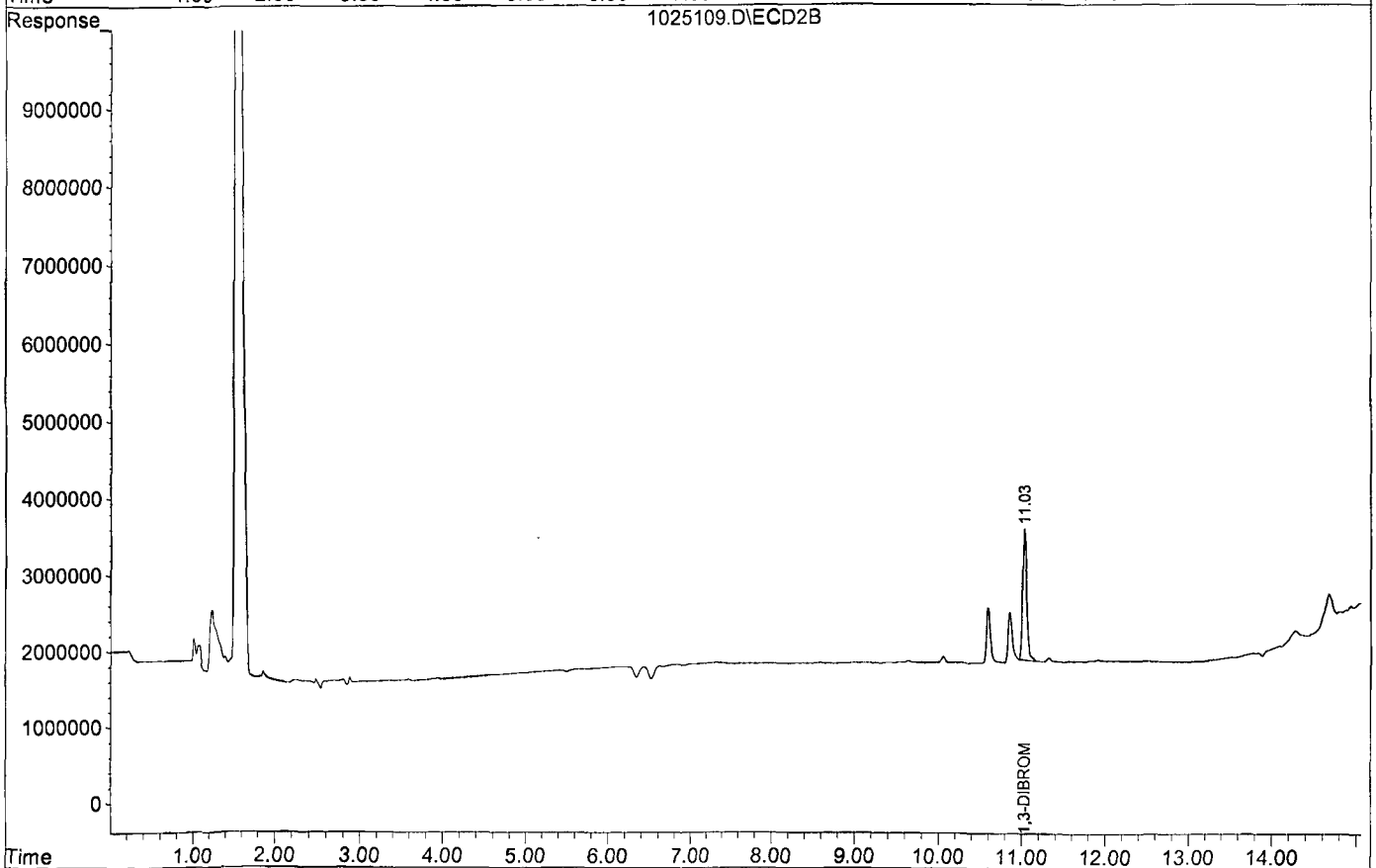
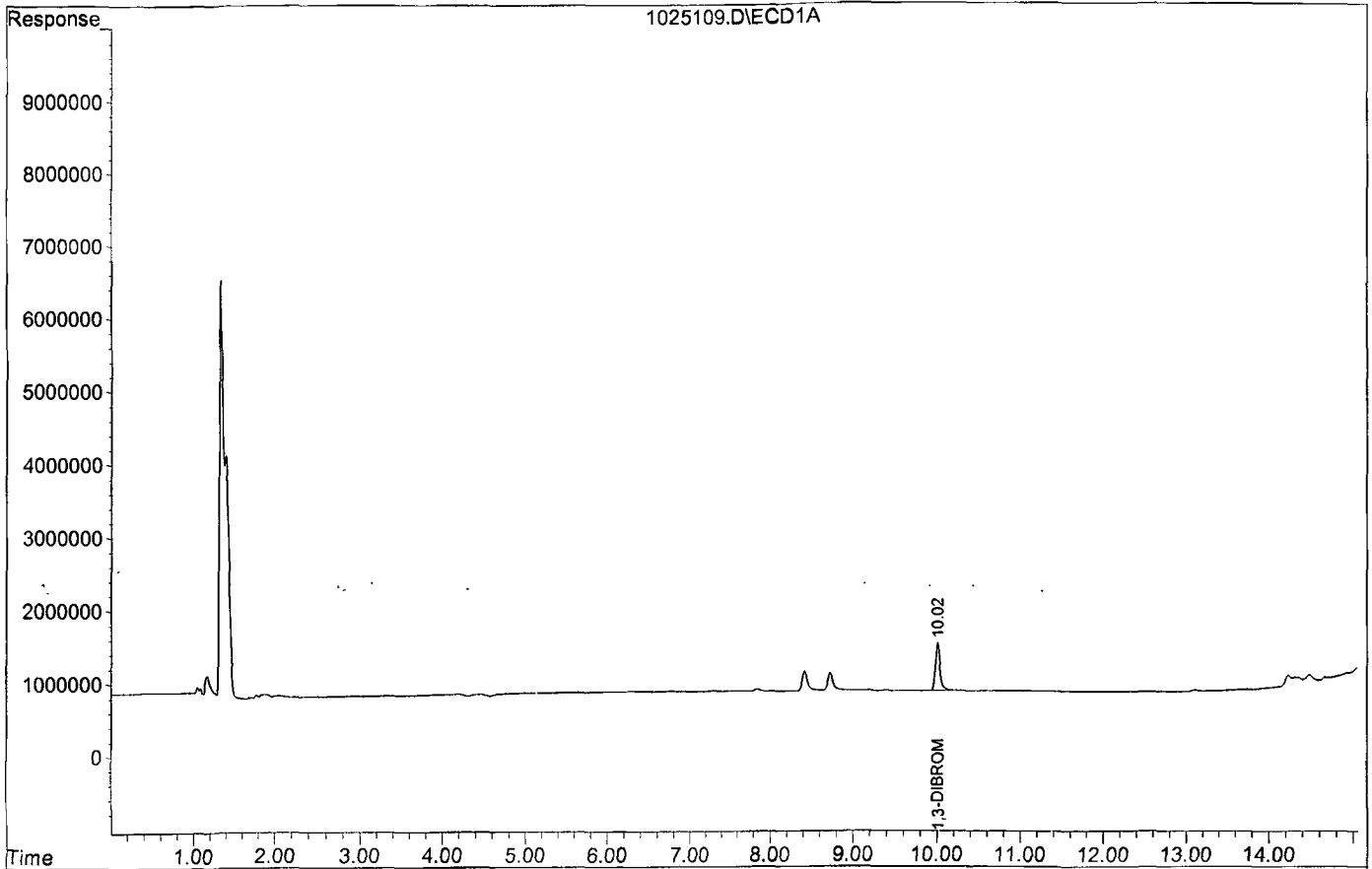
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.03	652827	1713605	0.352	0.382
Spiked Amount	0.344		Recovery	=	102.32%	111.05%

Target Compounds

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM 1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025109.D
Acq On : 10-31-19 22:57:54
Sample : BA01783W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 9
Operator: MA,SS
Inst : Herbie
Multiplr: 0.98



Signal #1 : G:\HERBIE\DATA\191025\1025080.D\ECD1A.CH Vial: 80
 Signal #2 : G:\HERBIE\DATA\191025\1025080.D\ECD2B.CH
 Acq On : 10-30-19 0:50:26 Operator: MA,SS
 Sample : BA01784W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:22 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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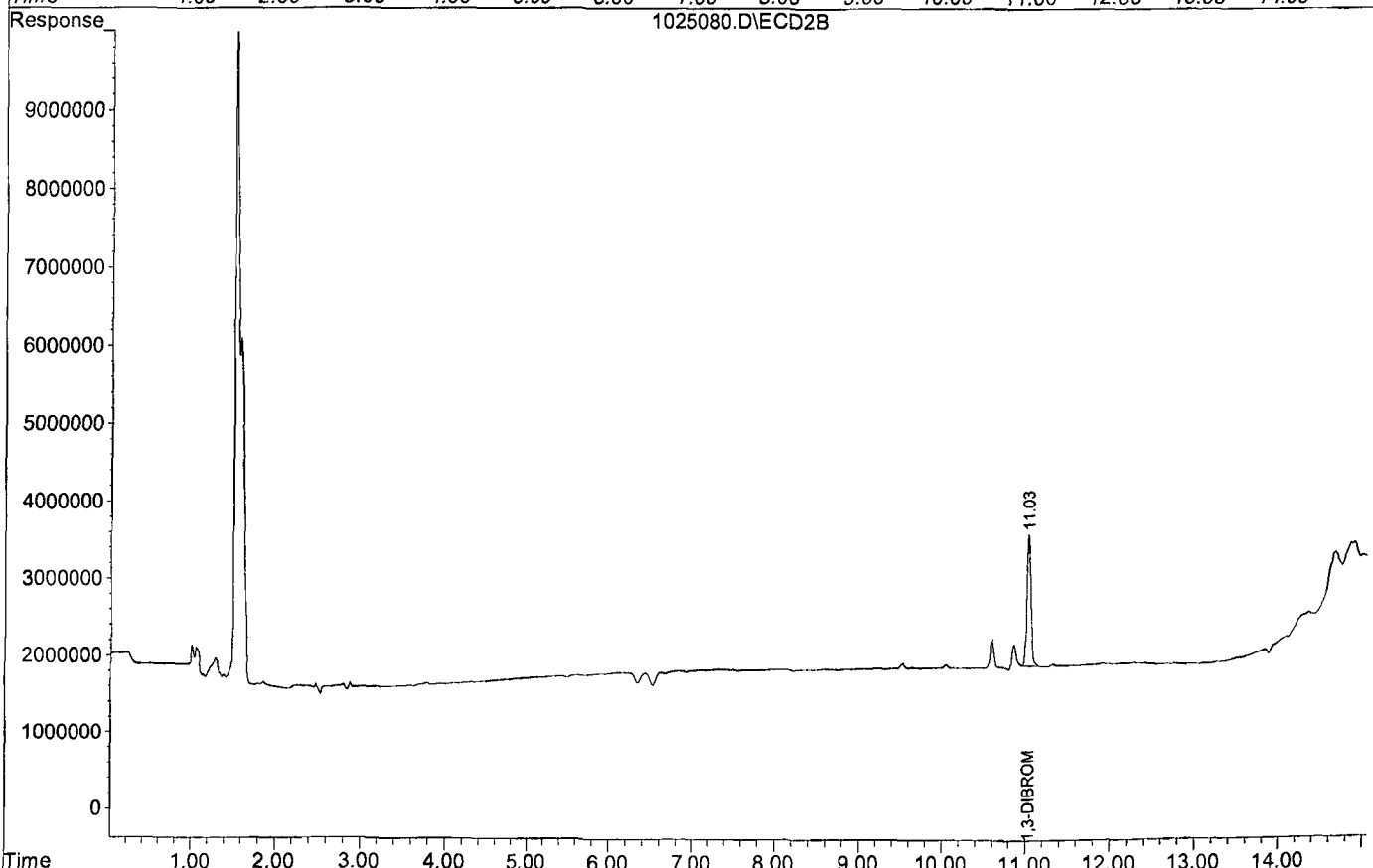
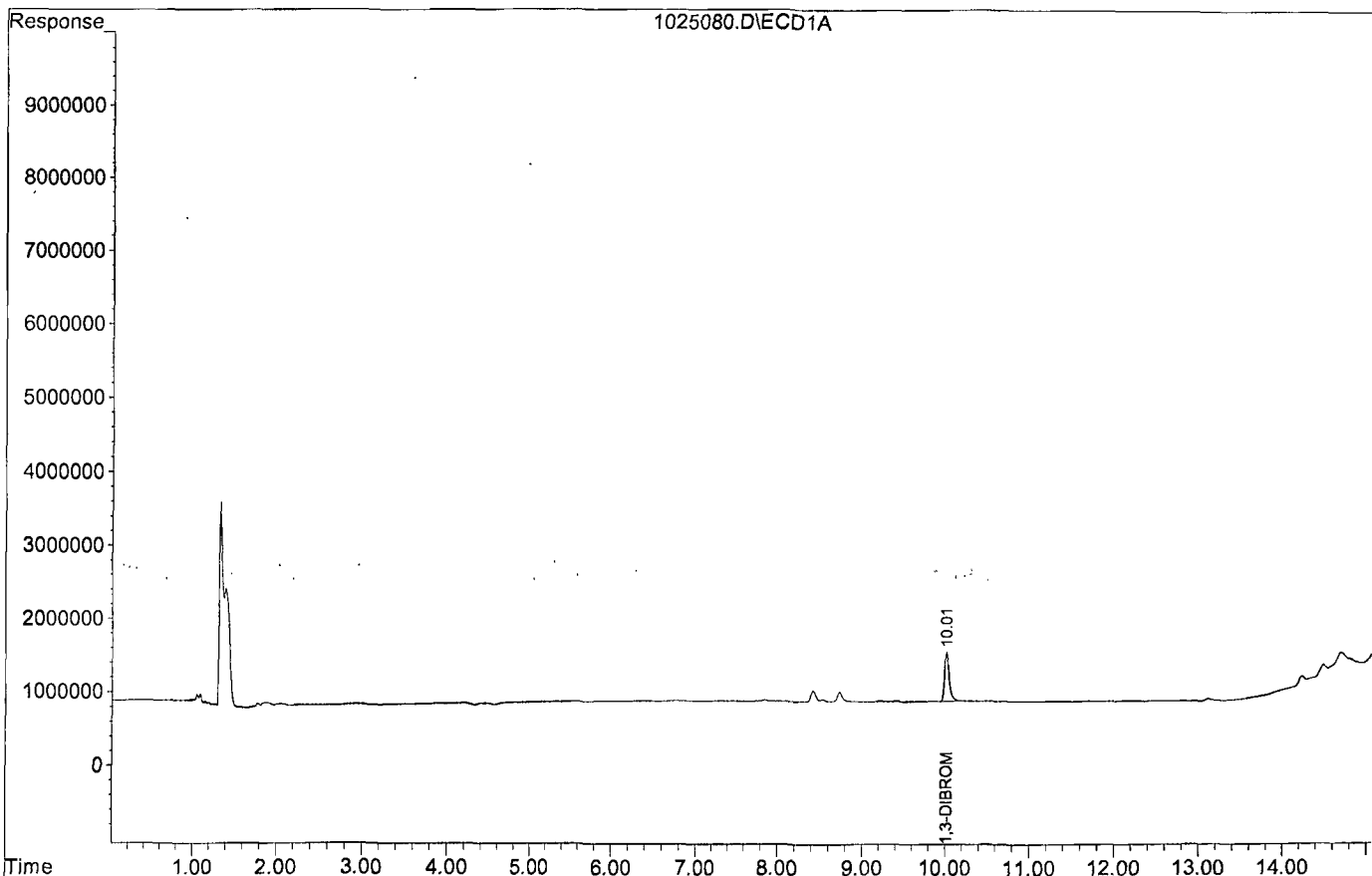
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	669963	1701746	0.367	0.386
	Spiked Amount	0.350		Recovery	=	104.98%	110.41%

Target Compounds

Target Compounds		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025080.D
Acq On : 10-30-19 0:50:26
Sample : BA01784W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 80
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025068.D\ECD1A.CH Vial: 68
 Signal #2 : G:\HERBIE\DATA\191025\1025068.D\ECD2B.CH
 Acq On : 10-29-19 20:49:55 Operator: MA,SS
 Sample : 191028A BLK 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p , IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:16 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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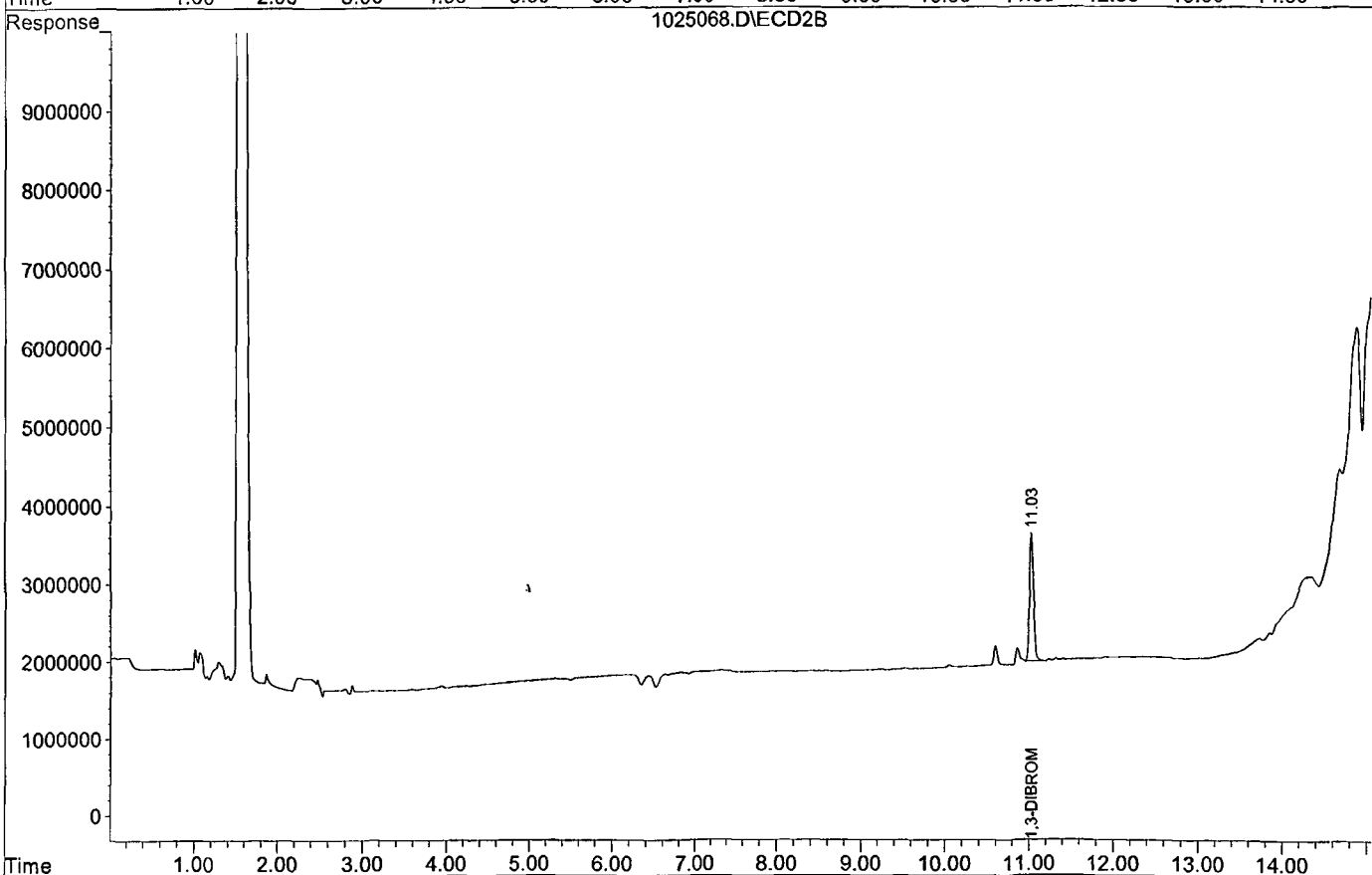
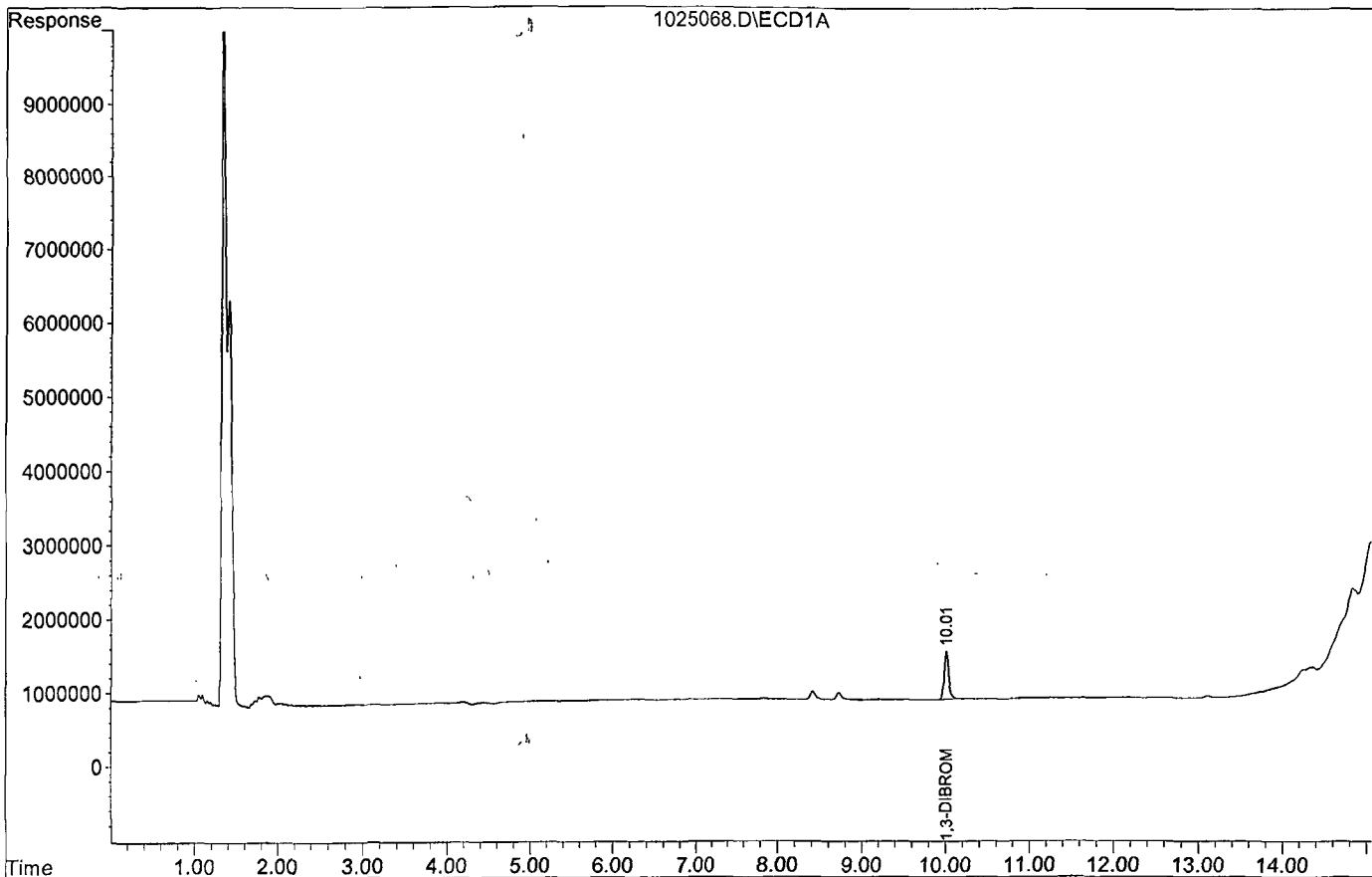
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	663555	1651808	0.363	0.374
Spiked Amount	0.349		Recovery	=	104.01%	107.16%

Target Compounds

Target Compounds						
1) TM	EDB	0.00	0.00	0	0	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d

Data File : G:\HERBIE\DATA\191025\1025068.D
Acq On : 10-29-19 20:49:55
Sample : 191028A BLK 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 68
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025106.D\ECD1A.CH Vial: 6
 Signal #2 : G:\HERBIE\DATA\191025\1025106.D\ECD2B.CH
 Acq On : 10-31-19 21:58:06 Operator: MA,SS
 Sample : 191031A BLK 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 5 9:19 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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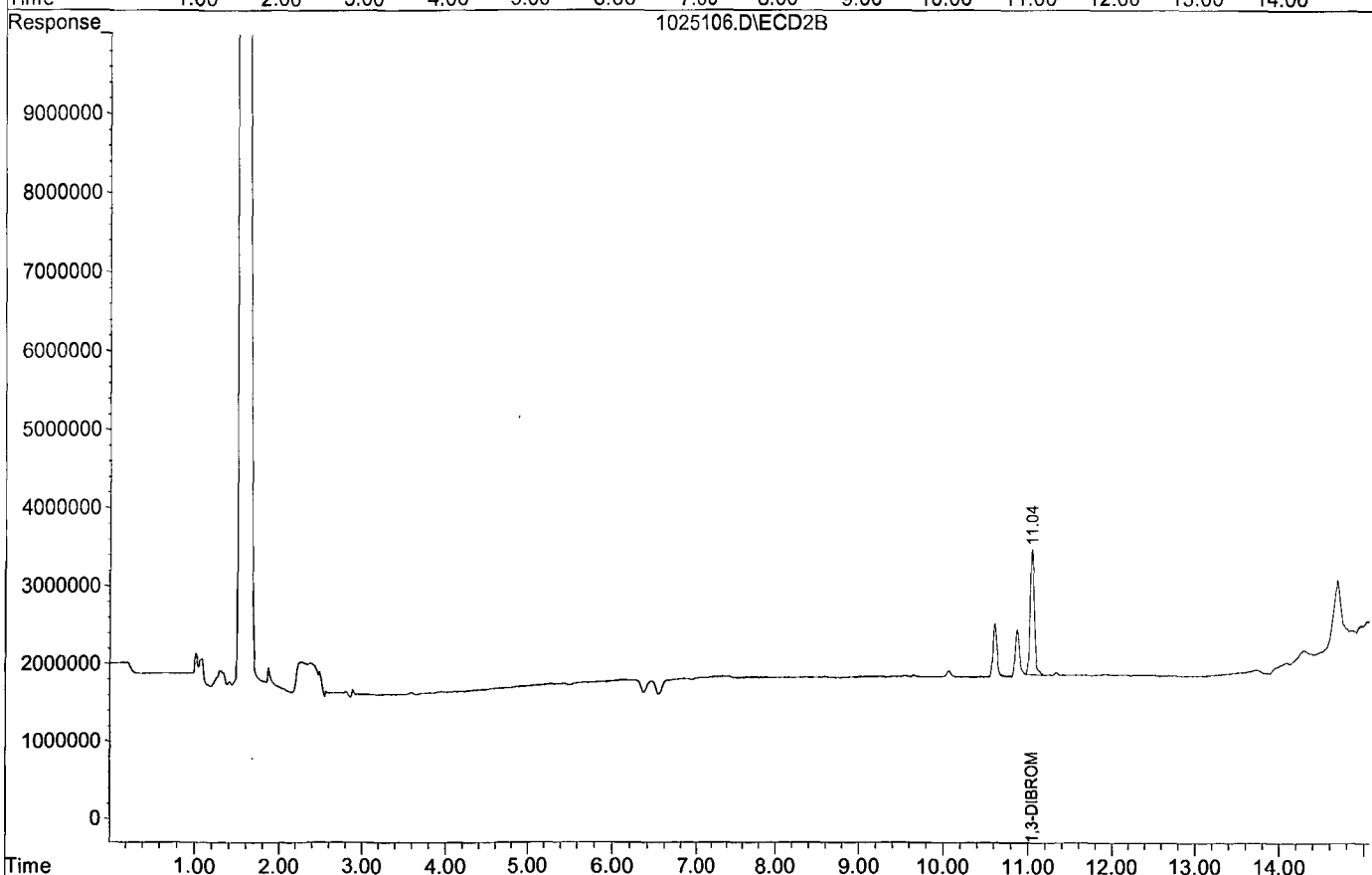
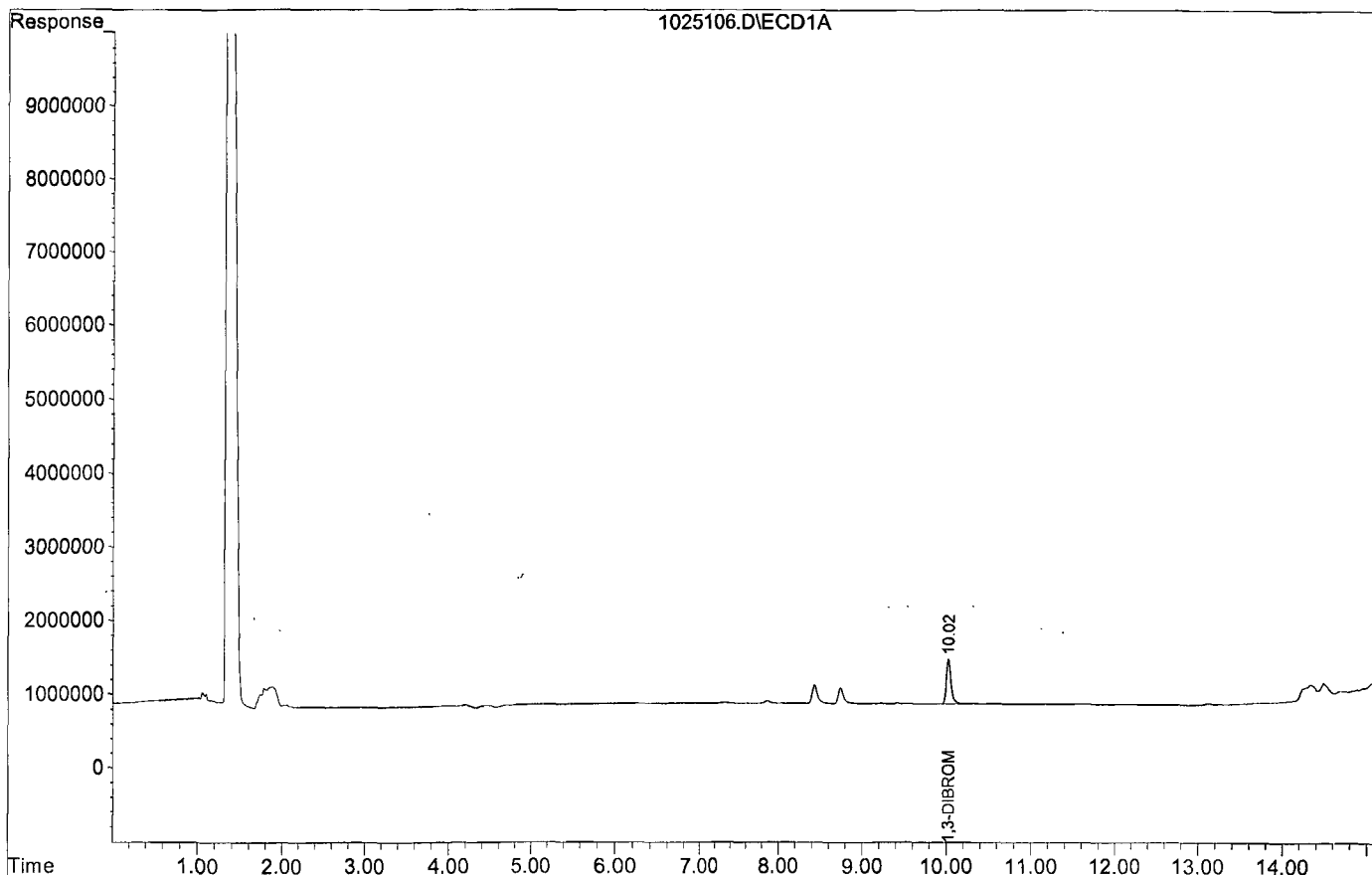
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.02	11.04	599270	1601988	0.328	0.362
	Spiked Amount	0.349		Recovery	=	94.01%	103.75%

Target Compounds

Target Compounds							
		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025106.D
Acq On : 10-31-19 21:58:06
Sample : 191031A BLK 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

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



Signal #1 : G:\HERBIE\DATA\191025\1025069.D\ECD1A.CH Vial: 69
 Signal #2 : G:\HERBIE\DATA\191025\1025069.D\ECD2B.CH
 Acq On : 10-29-19 21:09:59 Operator: MA,SS
 Sample : 191028A LCS-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:10 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

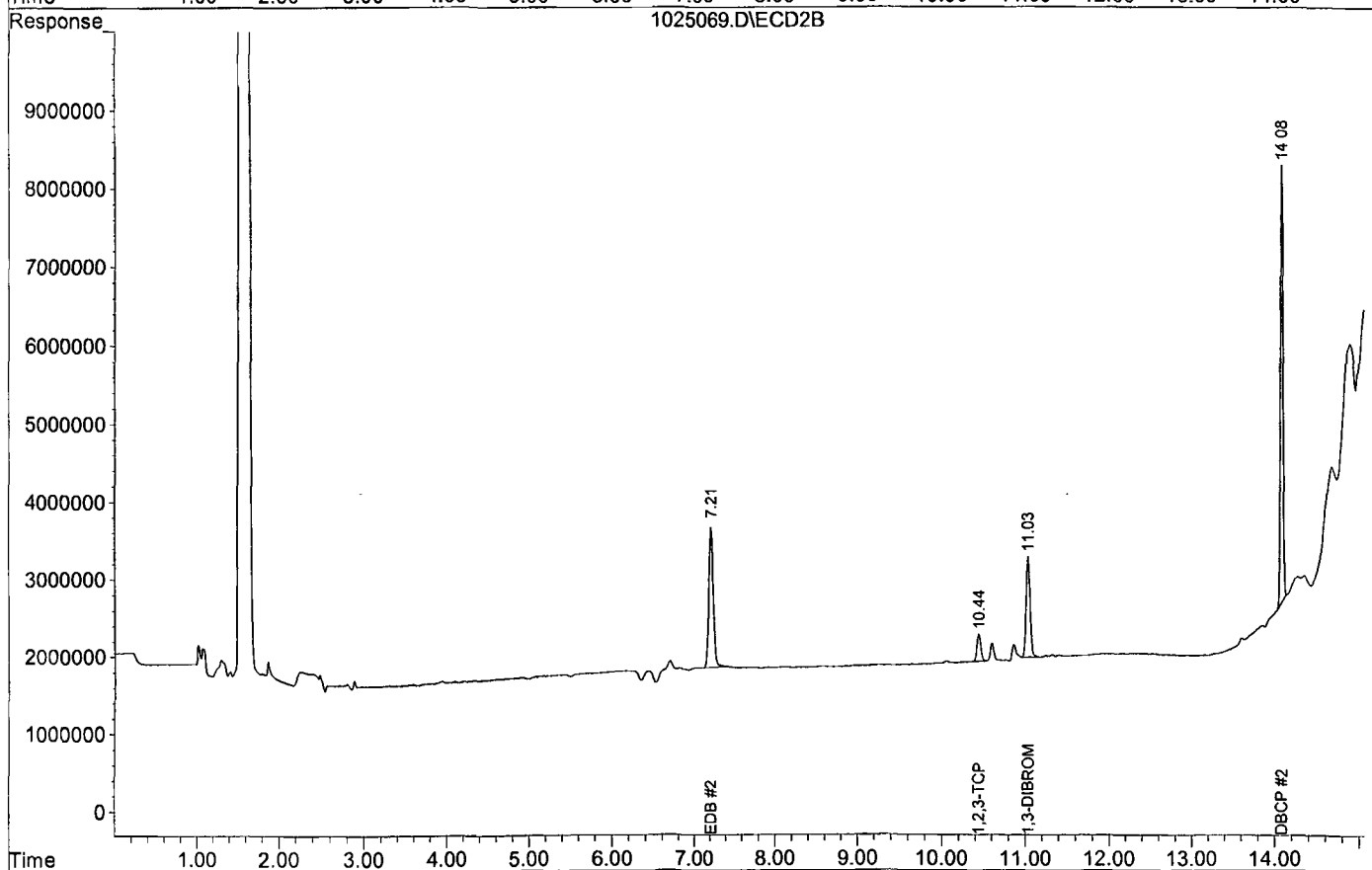
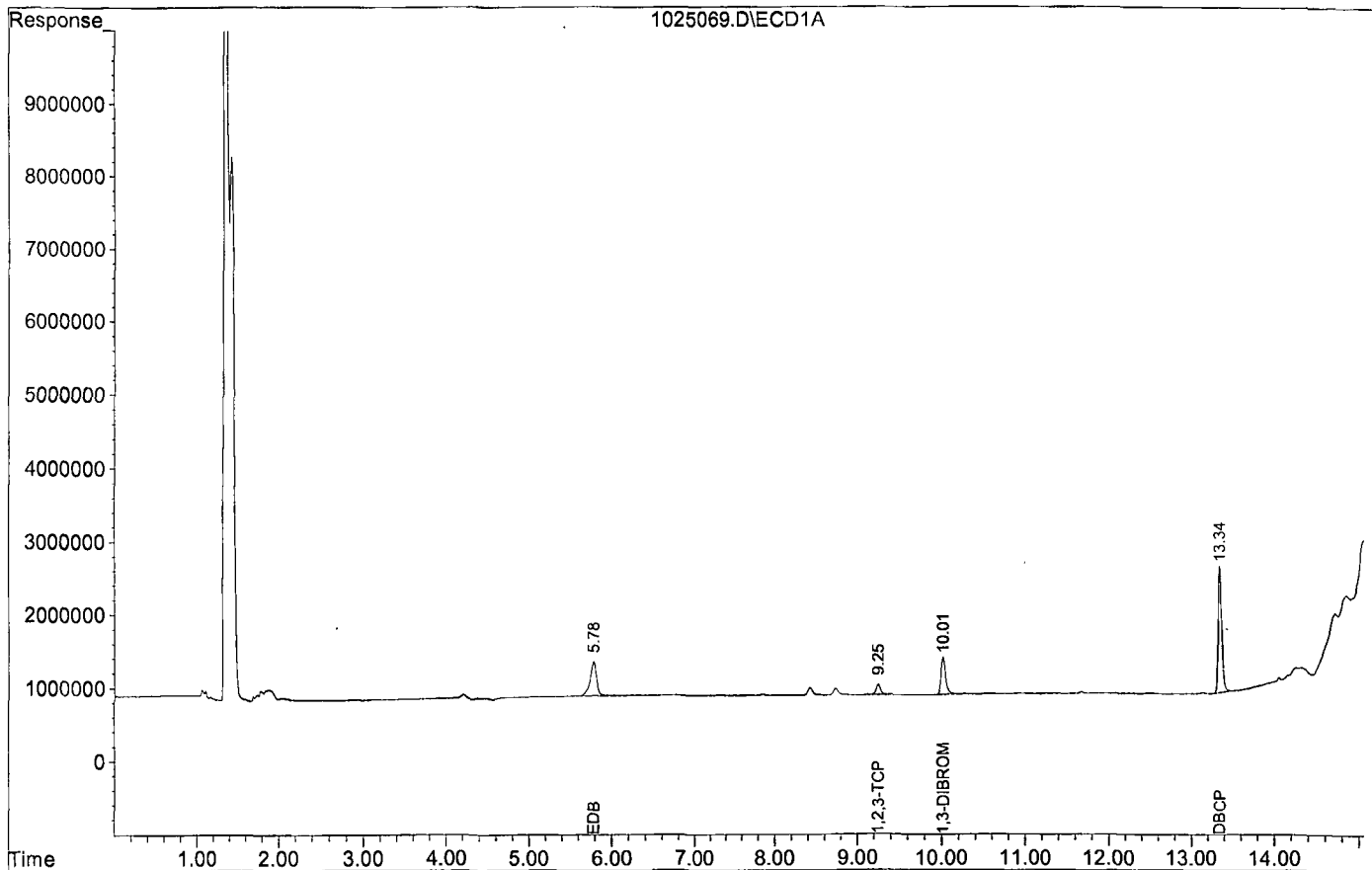
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	503322	1304384	0.275	0.295
Spiked Amount	0.349		Recovery	=	78.84%	84.57%
Target Compounds						
1) TM EDB	5.78	7.21	455986	1806548	0.271	0.264
2) TM 1,2,3-TCP	9.25	10.44	133925	356898	0.272	0.281
4) TM DBCP	13.34	14.08	1717318	5597880	0.268	0.290

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025069.D
Acq On : 10-29-19 21:09:59
Sample : 191028A LCS-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 69
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025107.D\ECD1A.CH Vial: 7
 Signal #2 : G:\HERBIE\DATA\191025\1025107.D\ECD2B.CH
 Acq On : 10-31-19 22:18:02 Operator: MA,SS
 Sample : 191031A LCS-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 5 9:19 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

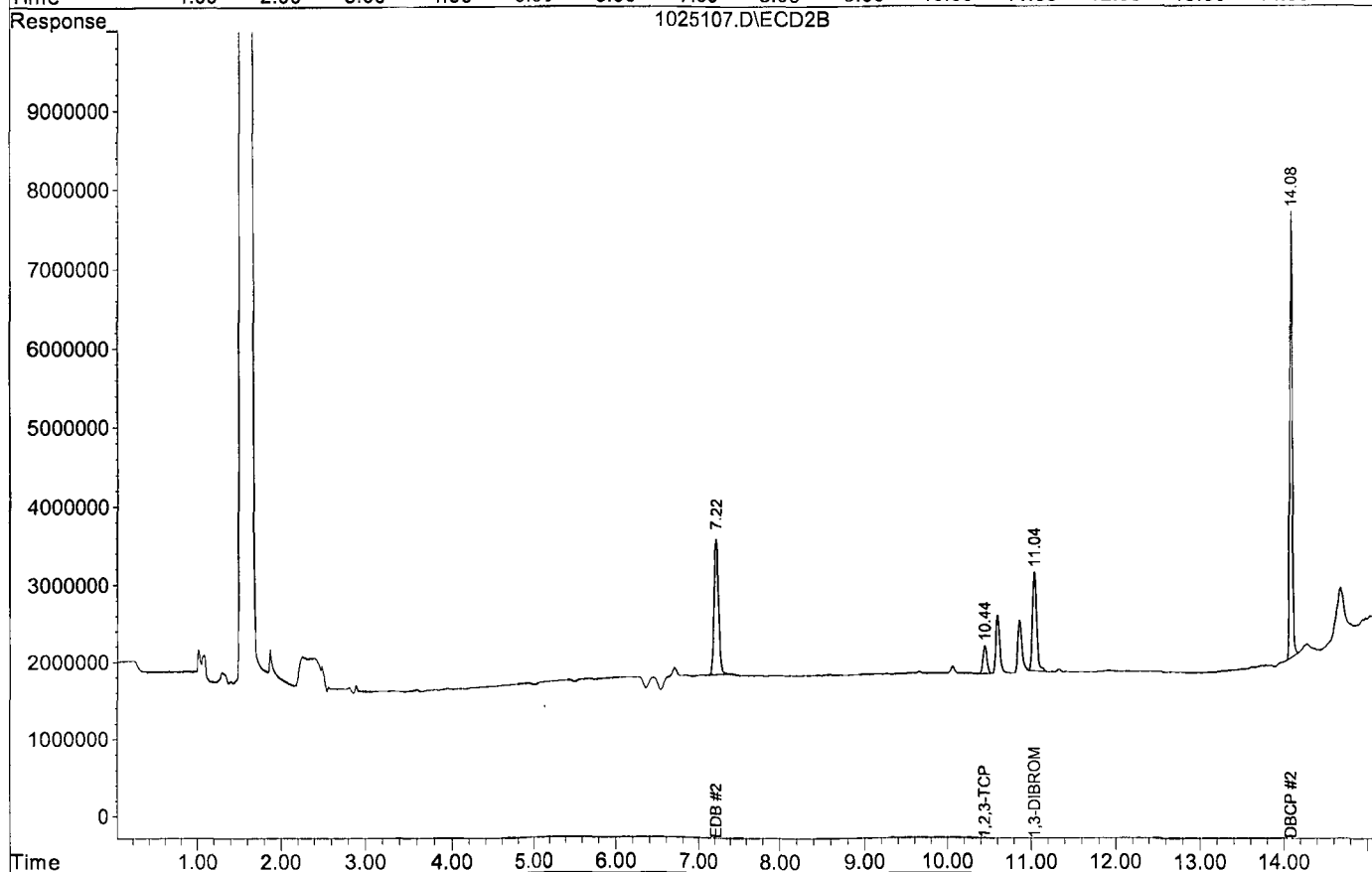
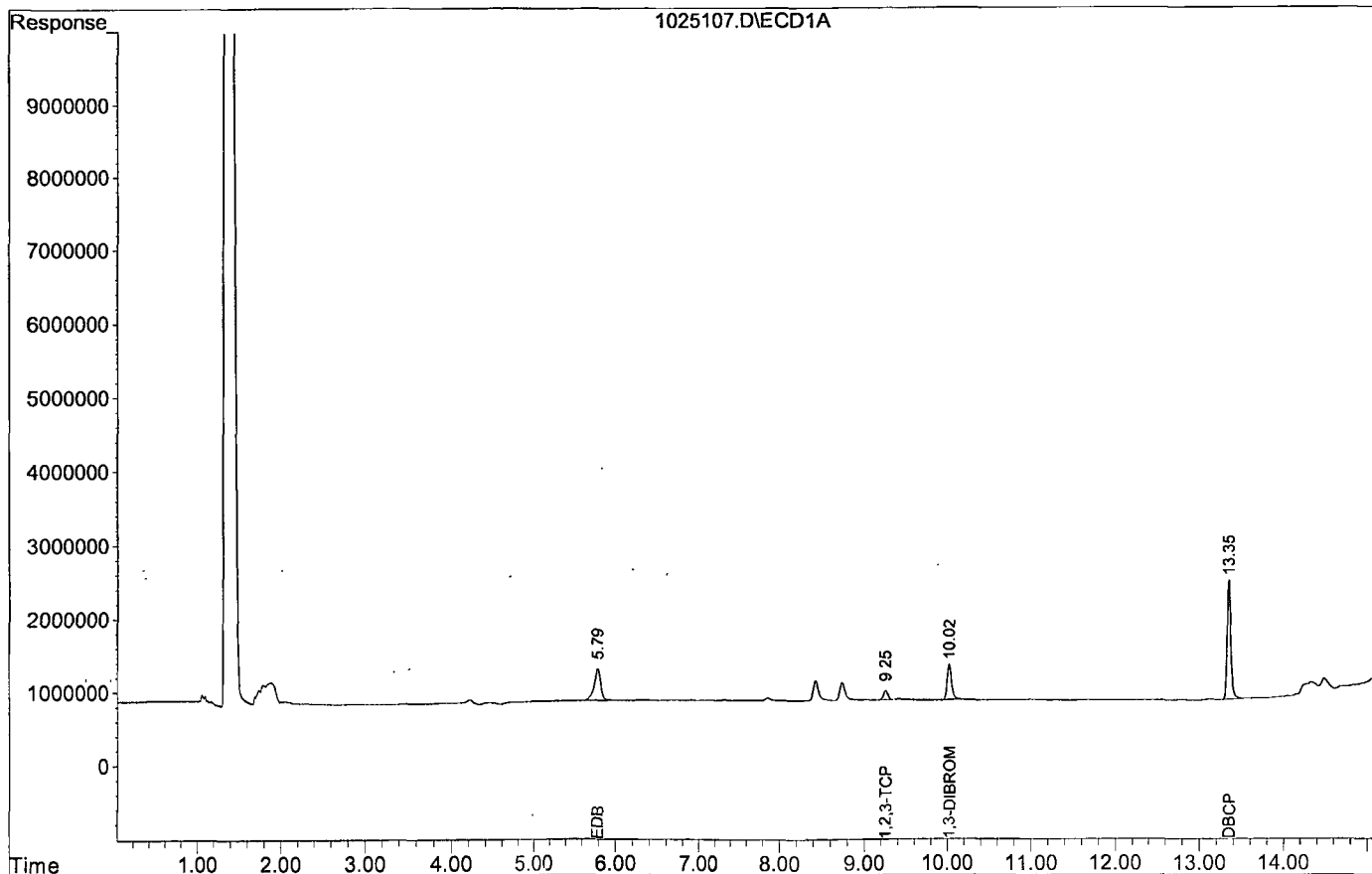
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.02	11.04	485583	1268502	0.265	0.286
Spiked Amount	0.348		Recovery	=	76.17%	82.20%
Target Compounds						
1) TM EDB	5.79	7.22	433141	1743076	0.257	0.254
2) TM 1,2,3-TCP	9.25	10.44	126208	358535	0.256	0.281
4) TM DBCP	13.35	14.08	1621367	5645297	0.252	0.292

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025107.D
Acq On : 10-31-19 22:18:02
Sample : 191031A LCS-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 7
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\191025\1025070.D\ECD1A.CH Vial: 70
 Signal #2 : G:\HERBIE\DATA\191025\1025070.D\ECD2B.CH
 Acq On : 10-29-19 21:30:06 Operator: MA,SS
 Sample : 191028A LCSD-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.98
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:10 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

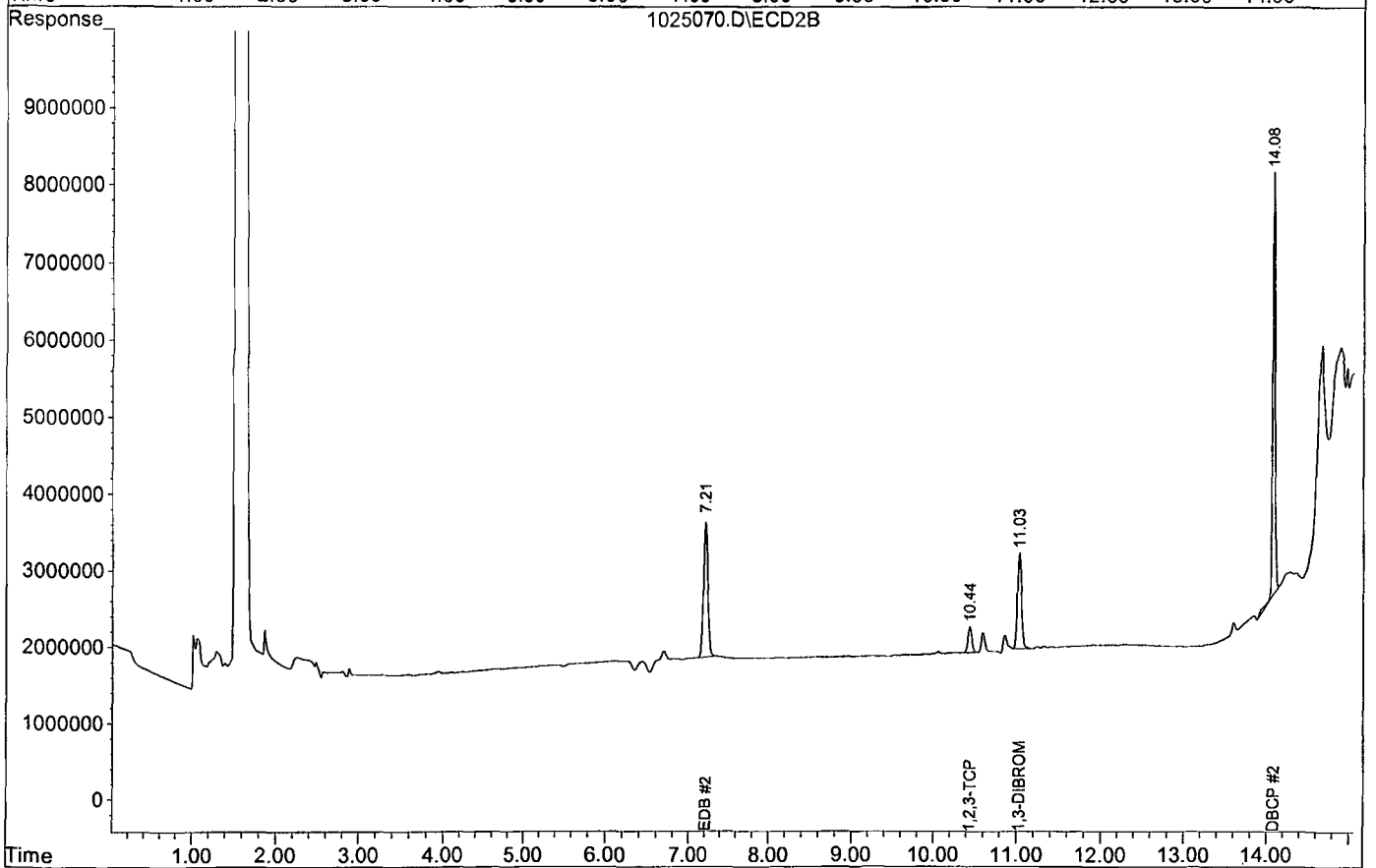
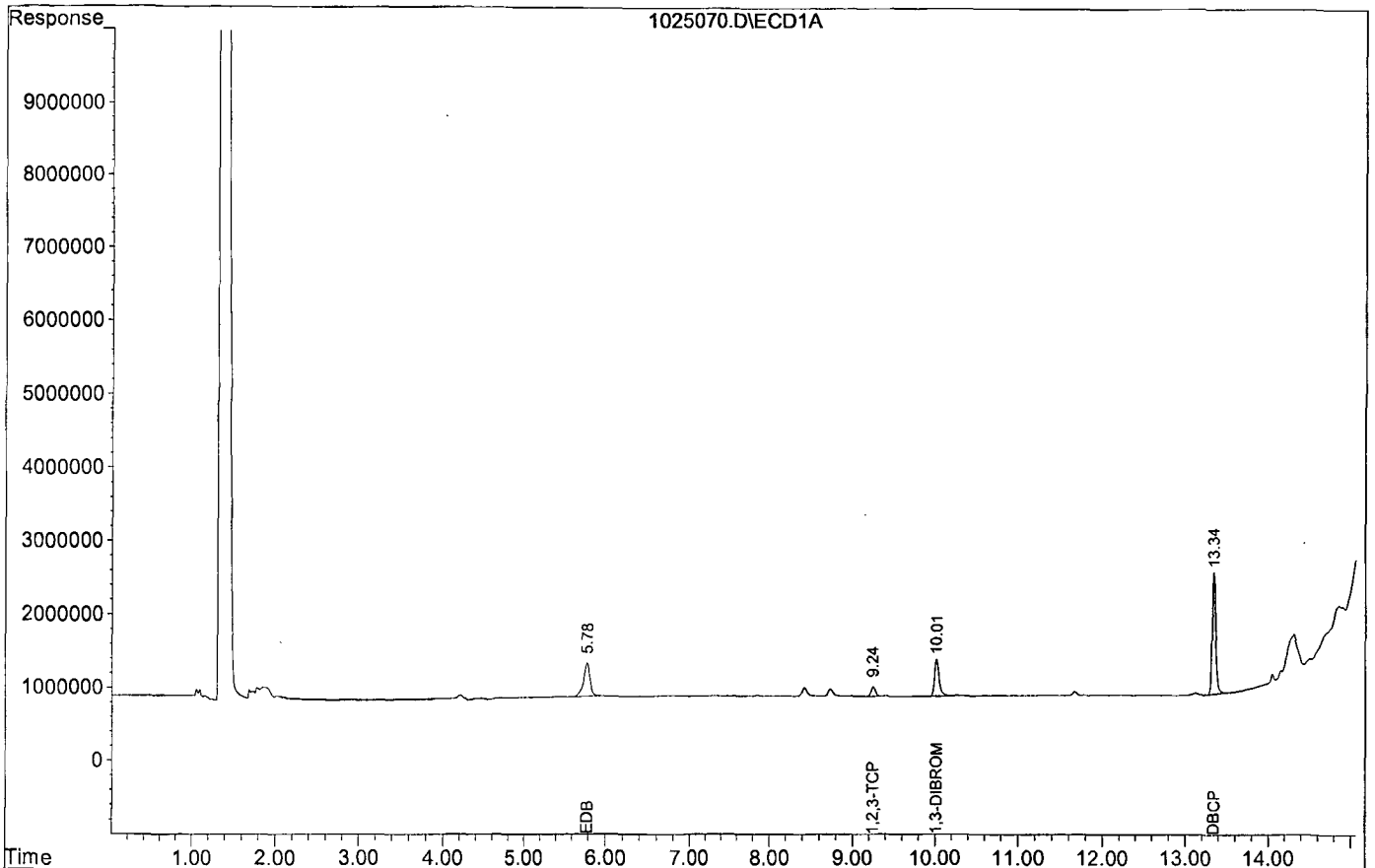
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	506052	1264980	0.273	0.282
Spiked Amount	0.344		Recovery	=	79.29%	81.91%
Target Compounds						
1) TM EDB	5.78	7.21	450438	1768656	0.265	0.255
2) TM 1,2,3-TCP	9.24	10.44	131056	347754	0.263	0.270
4) TM DBCP	13.34	14.08	1663213	5480489	0.256	0.280

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025070.D
Acq On : 10-29-19 21:30:06
Sample : 191028A LCSD-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 70
Operator: MA,SS
Inst : Herbie
Multiplr: 0.98



Signal #1 : G:\HERBIE\DATA\191025\1025108.D\ECD1A.CH Vial: 8
 Signal #2 : G:\HERBIE\DATA\191025\1025108.D\ECD2B.CH
 Acq On : 10-31-19 22:37:56 Operator: MA,SS
 Sample : 191031A LCSD-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Nov 5 9:19 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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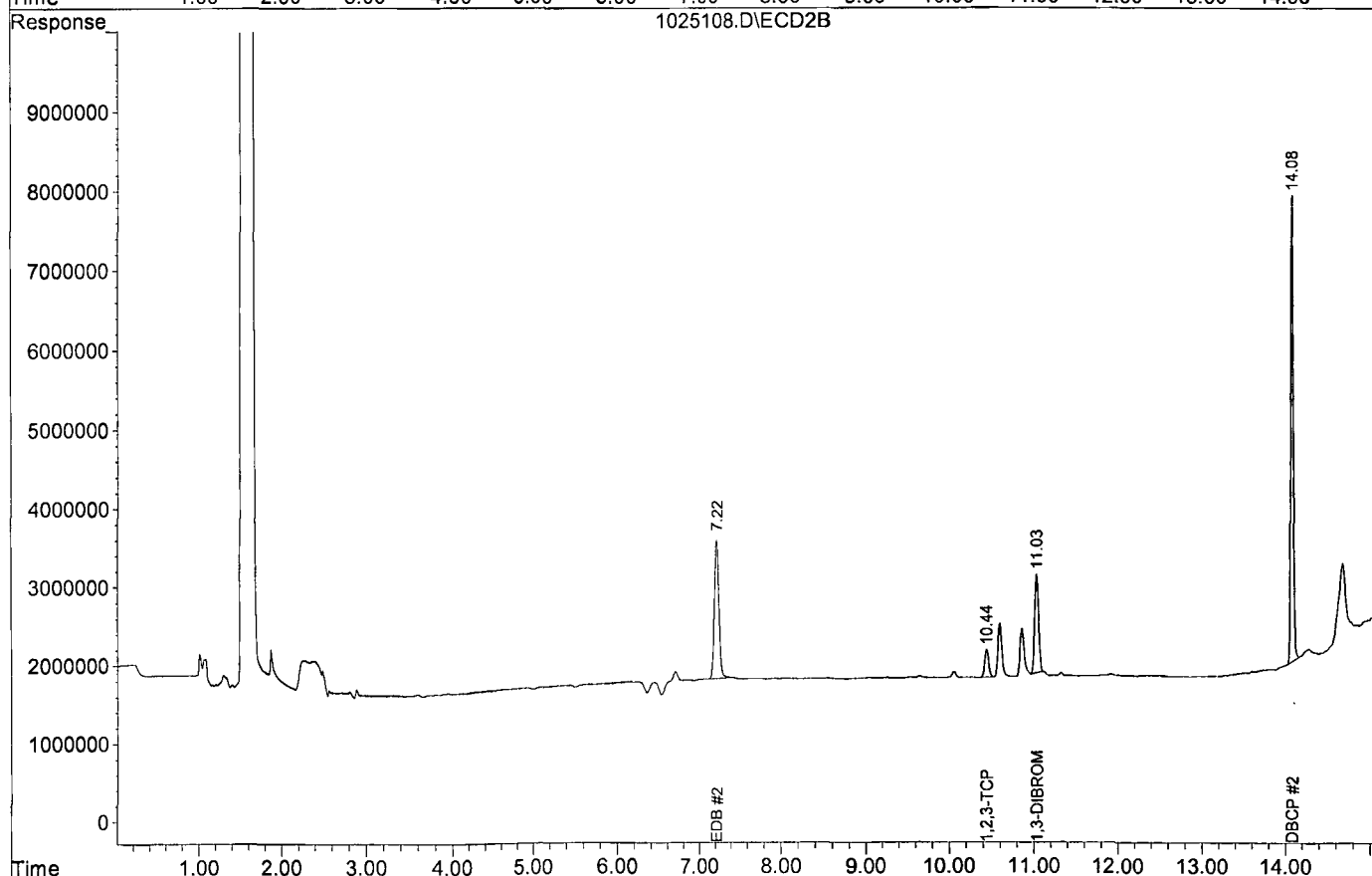
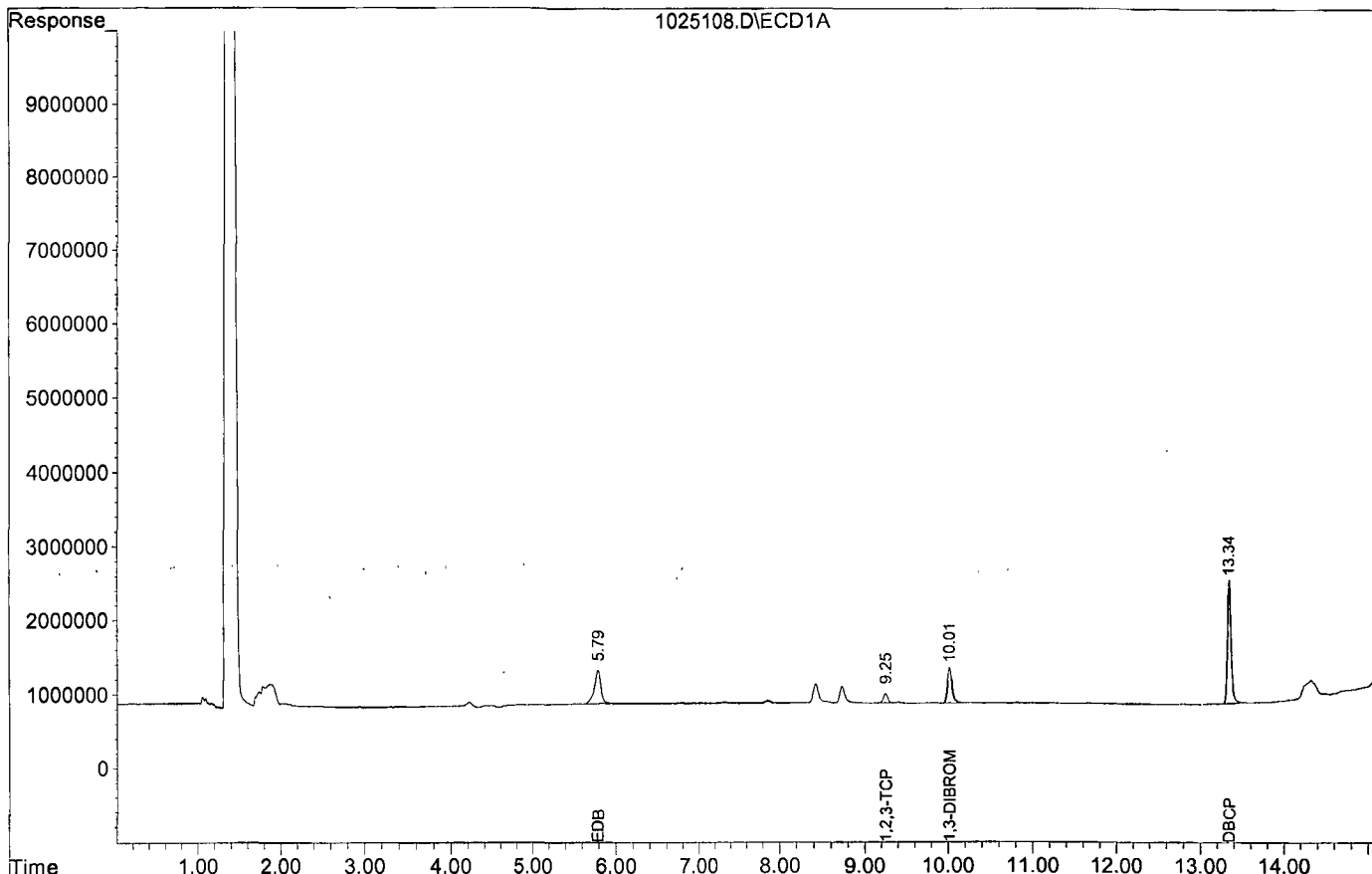
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	481350	1260429	0.263	0.285
Spiked Amount	0.348		Recovery	=	75.49%	81.80%

Target Compounds						
1) TM EDB	5.79	7.22	444936	1762759	0.265	0.257
2) TM 1,2,3-TCP	9.25	10.44	129114	354462	0.262	0.278
4) TM DBCP	13.34	14.08	1668084	5895544	0.260	0.305

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025108.D
Acq On : 10-31-19 22:37:56
Sample : 191031A LCSD-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

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



Name of Final Standard 504/8011 Stock
 Prep Date 09/09/19
 Exp Date 01/06/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/DOHS Stock	APPL	504/DOHS Stock	20 ug/mL	05/07/19	04/10/20	175 uL	10 mL	Methanol #208858	0.35 ug/mL
1,3 DBP Stock	APPL	1,3 DBP Stock	100 ug/mL	05/07/19	01/06/20	35 uL			

Name of Final Standard 504/8011 Spike
 Prep Date 09/09/19
 Exp Date 01/06/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 Stock	APPL	504/8011 Stock	0.35 ug/mL	09/09/19	01/06/20	1000 uL	10 mL	Methanol #208858	0.035 ug/mL

Name of Final Standard 504/8011 Surrogate
 Prep Date 09/04/19
 Exp Date 01/06/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1,3 DBP	APPL	1,3 DBP Stock	100 ug/mL	05/07/19	01/06/20	35 uL	10 mL	Methanol #208858	0.35ug/ml

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	191028A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 M. SPIKE 09/19/19 EXP 01/06/20	Surrogate ID 1	504.1 Surrogate 09/04/19 EXP 01/06/20				
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:					
Spiked ID 7		Ext. Start Time:		10/28/19 16:05			
Spiked ID 8		Ext. End Time:		10/29/19 12:00			
GC Requires Extract By:							
pH1				Water Bath Temp 1 °C			
pH2				Water Bath Temp 2 °C			
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 10/28/19 4:05:00 PM

Witnessed By: DS

Date 10/28/19 4:05:00 PM

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191028A Blk				0.035	1	35.10g	2	7	10/28/19 16:05	
						equip				
2 191028A LCS-1		0.250	1	NA	NA	35.12g	2	7	10/28/19 16:05	
						equip				
3 191028A LCSD-1		0.250	1	NA	NA	35.58g	2	7	10/28/19 16:05	
						equip				
4 BA01322	BA01322W04			0.035	1	35.19g	2	7	10/28/19 16:05	90472 RX
						equip				
5 BA01349	BA01349W01			0.035	1	35.68g	2	7	10/28/19 16:05	90481 RX
						equip				
6 BA01661	BA01661W06			0.035	1	35.57g	2	7	10/28/19 16:05	90532
						equip				
7 BA01662	BA01662W05			0.035	1	35.48g	2	7	10/28/19 16:05	90532
						equip				
8 BA01663	BA01663W07			0.035	1	35.61g	2	7	10/28/19 16:05	90532
						equip				
9 BA01664	BA01664W07			0.035	1	35.42g	2	7	10/28/19 16:05	90532
						equip				
10 BA01780	BA01780W06			0.035	1	35.34g	2	7	10/28/19 16:05	90551
						equip				
11 BA01781	BA01781W04			0.035	1	35.19g	2	7	10/28/19 16:05	90551
						equip				
12 BA01782	BA01782W04			0.035	1	35.20g	2	7	10/28/19 16:05	90551
						equip				
13 BA01784	BA01784W05			0.035	1	35.04g	2	7	10/28/19 16:05	90551
						equip				
14 BA01830	BA01830W05			0.035	1	35.55	2	7	10/29/19 11:10	90559
						equip				
15 BA01831	BA01831W05			0.035	1	35.06g	2	7	10/29/19 11:10	90559
						equip				
16 BA01832	BA01832W07			0.035	1	35.11g	2	7	10/29/19 11:10	90559
						equip				

Solvent and Lot#	
ph strip	HC863463
NaCL	19A035211
GC2 Hexane (2mLs)	DT947
Sod. Thiosulfate	1016C241

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	GA
Date	10/29/19
Time	10:30
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	11/14/19 4:07:39 PM

Reviewed By: GA Date 11/14/19

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	191028A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 M. SPIKE 09/19/19 EXP 01/06/20	Surrogate ID 1	504.1 Surrogate 09/04/19 EXP 01/06/20				
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:					
Spiked ID 7		Ext. Start Time:	10/28/19 16:05				
Spiked ID 8		Ext. End Time:	10/29/19 12:00				
GC Requires Extract By:							
pH1				Water Bath Temp 1 °C			
pH2				Water Bath Temp 2 °C			
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 10/28/19 4:05:00 PM

Witnessed By: DS

Date 10/28/19 4:05:00 PM

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 BA01833	BA01833W06			0.035	1	35.36g	2	7	10/29/19 11:10	90559
						equip				
18 M STD 1		0.020	1	NA	NA	35.13g	2	7	10/28/19 16:05	
						equip				

GA 11/14/19

Solvent and Lot#	
ph strip	HC863463
NaCL	19A035211
GC2 Hexane (2mLs)	DT947
Sod. Thiosulfate	1016C241

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	GA
Date	
Time	
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	11/14/19 4:07:39 PM

Reviewed By: GA Date 11/14/19

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	191031A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 M. SPIKE 09/09/19 EXP 01/06/20	Surrogate ID 1	504.1 Surrogate 09/04/19 EXP 01/06/20	Spiked ID 2		Surrogate ID 2	
Spiked ID 2		Spiked ID 3		Surrogate ID 3		Surrogate ID 4	
Spiked ID 3		Spiked ID 4		Surrogate ID 4		Surrogate ID 5	
Spiked ID 4		Spiked ID 5		Surrogate ID 5		Sufficient Vol for Matrix QC:	
Spiked ID 5		Spiked ID 6		Ext. Start Time:	10/31/19 15:15		
Spiked ID 6		Spiked ID 7		Ext. End Time:	10/31/19 15:35		
Spiked ID 7		Spiked ID 8		GC Requires Extract By:			
				pH1		Water Bath Temp 1 °C	
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By: DL

Date 10/31/19 3:15:00 PM

Witnessed By: RB

Date 11/14/19 5:02:21 PM

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	191031A Blk			0.035	1	35.11g	2	7	10/31/19 15:15	
						equip				
2	191031A LCS-1	0.250	1	NA	NA	35.21g	2	7	10/31/19 15:15	
						equip				
3	191031A LCSD-1	0.250	1	NA	NA	35.16g	2	7	10/31/19 15:15	
						equip				
4	BA01783 BA01783W07			0.035	1	35.61g	2	7	10/31/19 15:15	90551
						equip				
5	BA02090 BA02090W06			0.035	1	35.32g	2	7	10/31/19 15:15	90587
						equip				
6	BA02091 BA02091W07			0.035	1	35.44g	2	7	10/31/19 15:15	90587
						equip				
7	M STD 1	0.020	1	NA	NA	35.06g	2	7	10/31/19 15:15	
						equip				

6A 11/14/19

Solvent and Lot#	
ph strip	HC863463
Sod. Thiosulfate	1016C241
NaCL	19A035211
GC2 Hexane (2mLs)	DT947

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	GA
Date	10/31/19
Time	15:00
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	11/14/19 5:00:07 PM

Reviewed By: ga

Date 11/14/19

Injection Log

Directory: G:\HERBIE\DATA\190916\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	68	0916268.D	1	8011 1 9/17/19	water	10-04-19 19:08:08
2	69	0916269.D	1	8011 2 9/17/19	water	10-04-19 19:28:36
3	70	0916270.D	1	8011 3 9/17/19	water	10-04-19 19:49:11
4	71	0916271.D	1	8011 4 9/17/19	water	10-04-19 20:09:38
5	72	0916272.D	1	8011 5 9/17/19	water	10-04-19 20:30:00
6	73	0916273.D	1	8011 6 9/17/19	water	10-04-19 20:50:31
7	74	0916274.D	1	8011 SS 9/17/19	water	10-04-19 21:10:52
8	67	1025067.D	1	8011 4 9/17/19	water	10-29-19 20:29:50
9	68	1025068.D	0.99715	191028A BLK 2/35.00G	water	10-29-19 20:49:55
10	69	1025069.D	0.99658	191028A LCS-1 2/35.00G	water	10-29-19 21:09:59
11	70	1025070.D	0.9837	191028A LCSD-1 2/35.00G	water	10-29-19 21:30:06
12	77	1025077.D	0.99038	BA01780W01 2/35.00G	water	10-29-19 23:50:21
13	78	1025078.D	0.9946	BA01781W01 2/35.00G	water	10-30-19 0:10:21
14	79	1025079.D	0.99432	BA01782W01 2/35.00G	water	10-30-19 0:30:27
15	80	1025080.D	0.99886	BA01784W01 2/35.00G	water	10-30-19 0:50:26
16	81	1025081.D	1	8011 4 9/17/19	water	10-30-19 1:10:19
17	5	1025105.D	1	8011 2 9/17/19	water	10-31-19 21:38:04
18	6	1025106.D	0.99687	191031A BLK 2/35.00G	water	10-31-19 21:58:06
19	7	1025107.D	0.99404	191031A LCS-1 2/35.00G	water	10-31-19 22:18:02
20	8	1025108.D	0.99545	191031A LCSD-1 2/35.00G	water	10-31-19 22:37:56
21	9	1025109.D	0.98287	BA01783W01 2/35.00G	water	10-31-19 22:57:54
22	13	1025113.D	1	8011 2 9/17/19	water	11-01-19 0:17:46

ORGANICS
Calibration Data

TPH Extractables
DOC0911

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 09/11/19
Instrument: Apollo

Initials: BT/UP

911003.D 911004.D 911005.D 911006.D 911007.D 911008.D

	Compound	1	2	3	4	5	6						Avg	%RSD	Type	r ²	Q
1	HATM Diesel (C10-C24)	2090856	1588723	1790144	1804407	1916066	1884405						1845767	9.0	HATM		
2	HBTML Motor Oil (C24-C40)	2201969	1482847	1340977	1308351	1375248	1357618						1511168	23	HBTM	1.000	
3	SA Ortho-Terphenyl(S)	2423821	1778443	1741236	1675620	1723534	1686854						1838251	16	SA		
4	SA Octacosane(S)	2007294	1899908	1686113	1622552	1817363	1870543						1817296	7.8	SA		
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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34																	
35																	

1.579095

Data File : G:\APOLLO\DATA\190911\911003.D Vial: 3
 Acq On : 9-11-19 13:25:10 Operator: BT
 Sample : Diesel/Motor Oil - 1 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

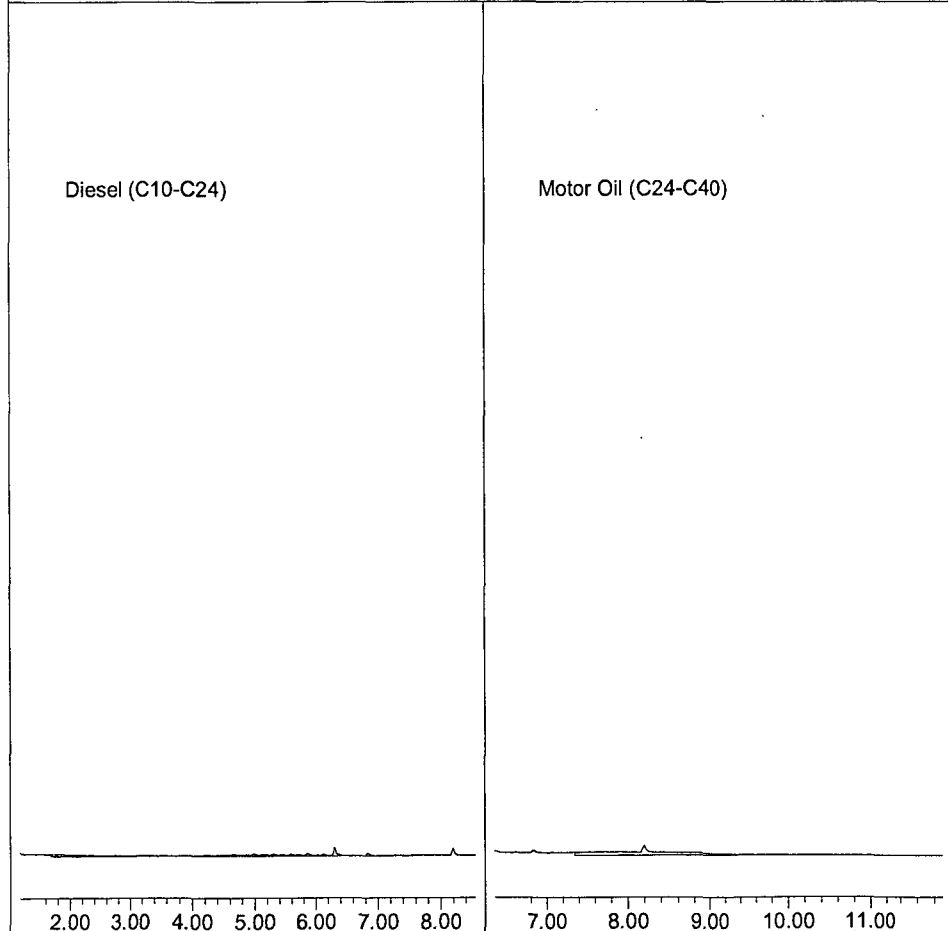
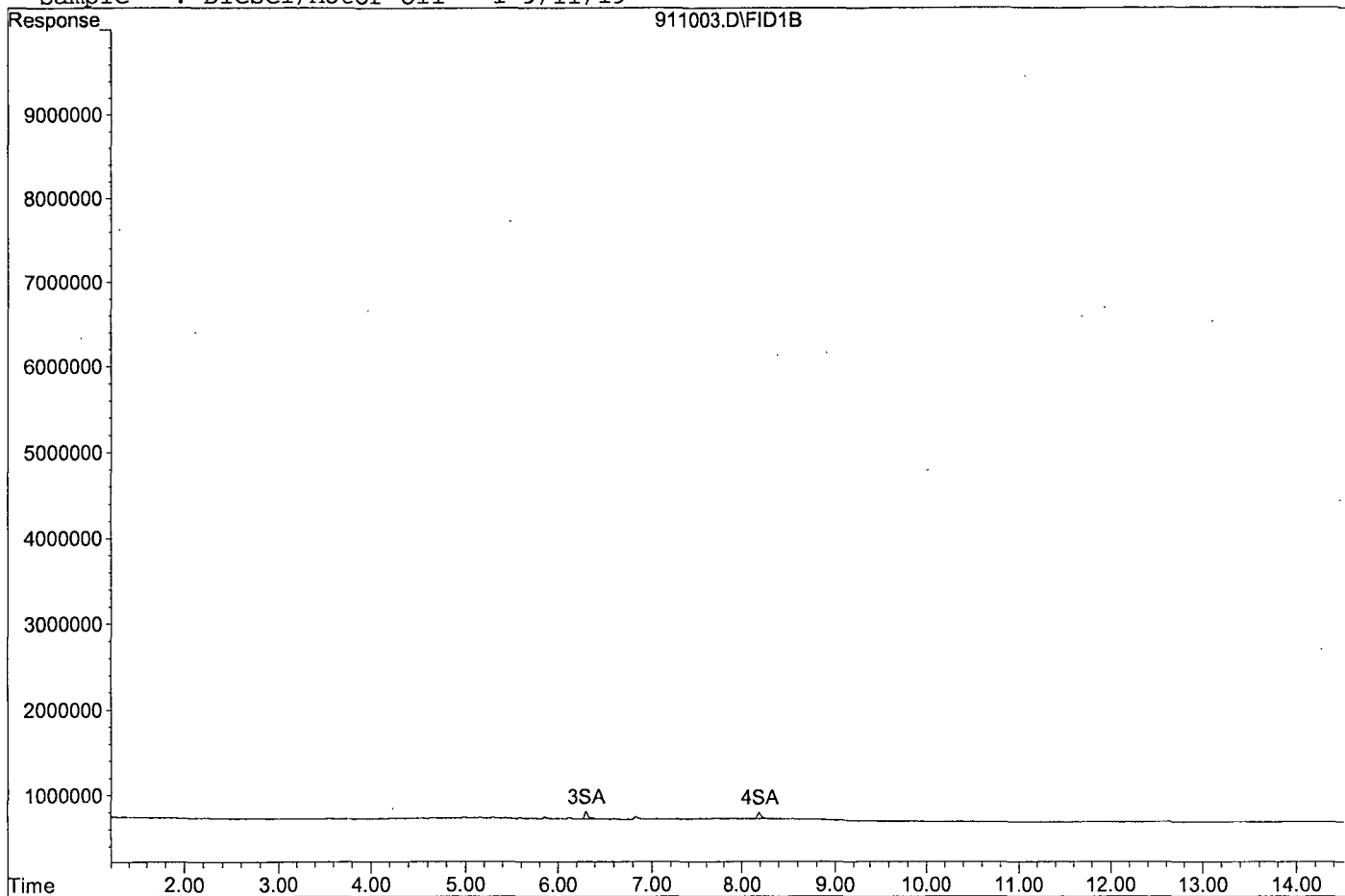
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	2423821	0.659 ppb
Surrogate Spike 30.000		Recovery =	2.20%
4) SA Octacosane(S)	8.20	2007294	0.552 ppb
Surrogate Spike 30.000		Recovery =	1.84%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	41817119	11.328 ppb
2) HBTM Motor Oil (C24-C40)	9.13	44039382	17.660 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911003.D

Sample : Diesel/Motor Oil - 1 9/11/19



Data File : G:\APOLLO\DATA\190911\911004.D Vial: 4
 Acq On : 9-11-19 13:45:18 Operator: BT
 Sample : Diesel/Motor Oil - 2 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units

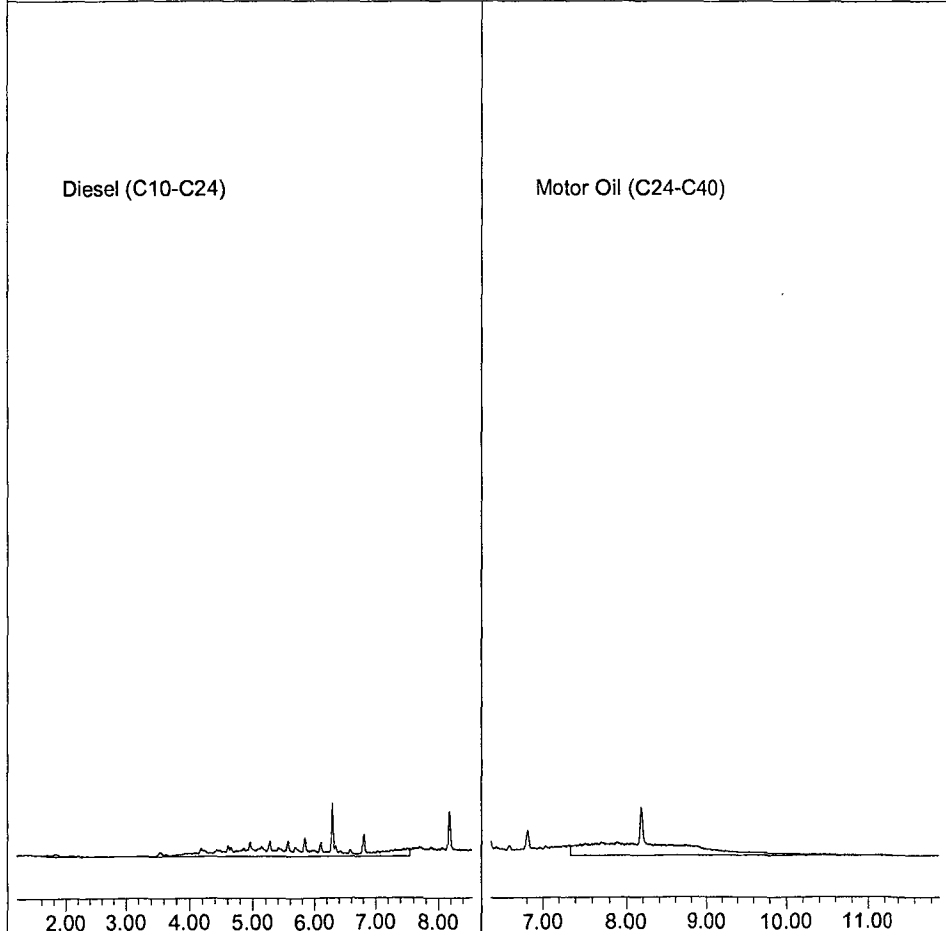
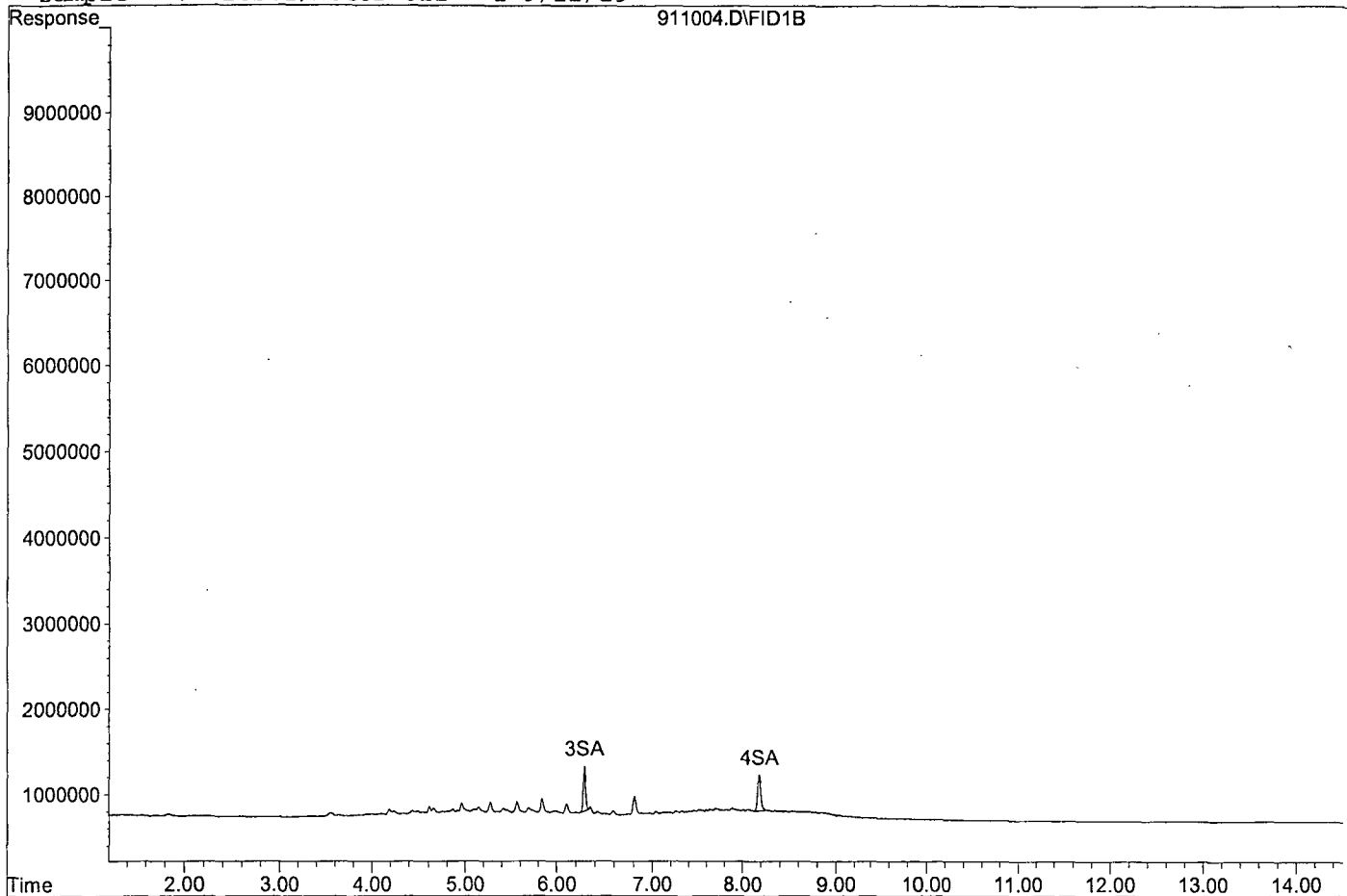
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	8892214	2.419 ppb
Surrogate Spike 30.000		Recovery =	8.06%
4) SA Octacosane(S)	8.18	9499540	2.614 ppb
Surrogate Spike 30.000		Recovery =	8.71%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	158872320	43.037 ppb
2) HBTM Motor Oil (C24-C40)	9.13	148284733	56.056 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911004.D

Sample : Diesel/Motor Oil - 2 9/11/19



Data File : G:\APOLLO\DATA\190911\911005.D Vial: 5
 Acq On : 9-11-19 14:04:58 Operator: BT
 Sample : Diesel/Motor Oil - 3 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

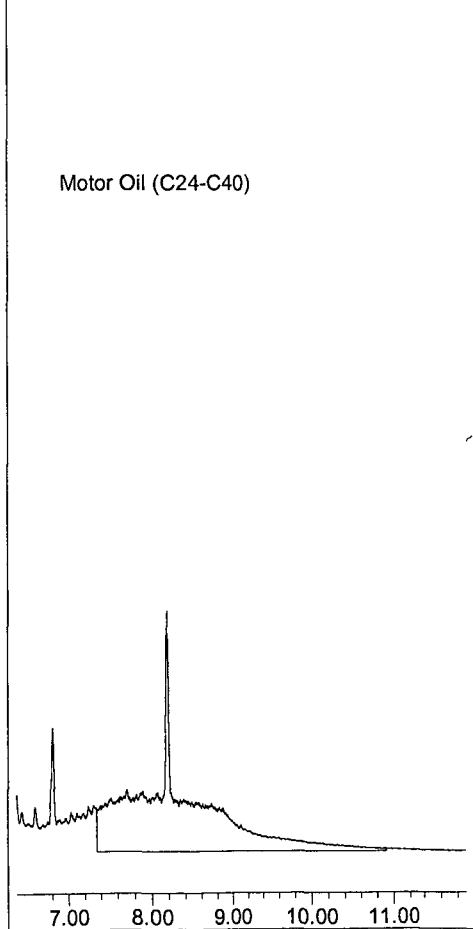
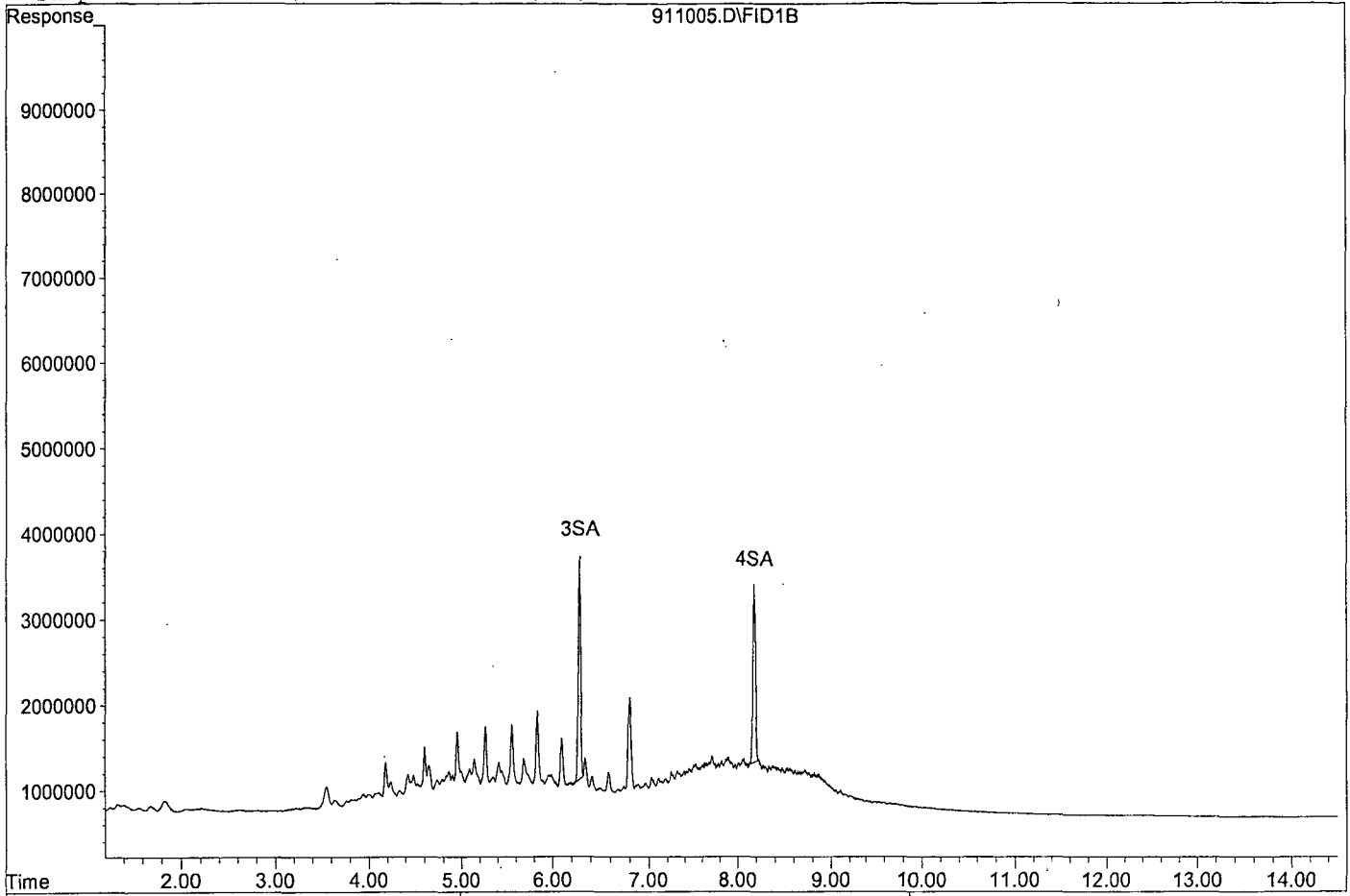
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	43530898	11.840 ppb
Surrogate Spike 30.000		Recovery =	39.47%
4) SA Octacosane(S)	8.18	42152834	11.598 ppb
Surrogate Spike 30.000		Recovery =	38.66%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	895072230	242.466 ppb
2) HBTM Motor Oil (C24-C40)	9.13	670488328	248.396 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911005.D
Sample : Diesel/Motor Oil - 3 9/11/19



Data File : G:\APOLLO\DATA\190911\911006.D Vial: 6
 Acq On : 9-11-19 14:25:14 Operator: BT
 Sample : Diesel/Motor Oil - 4 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

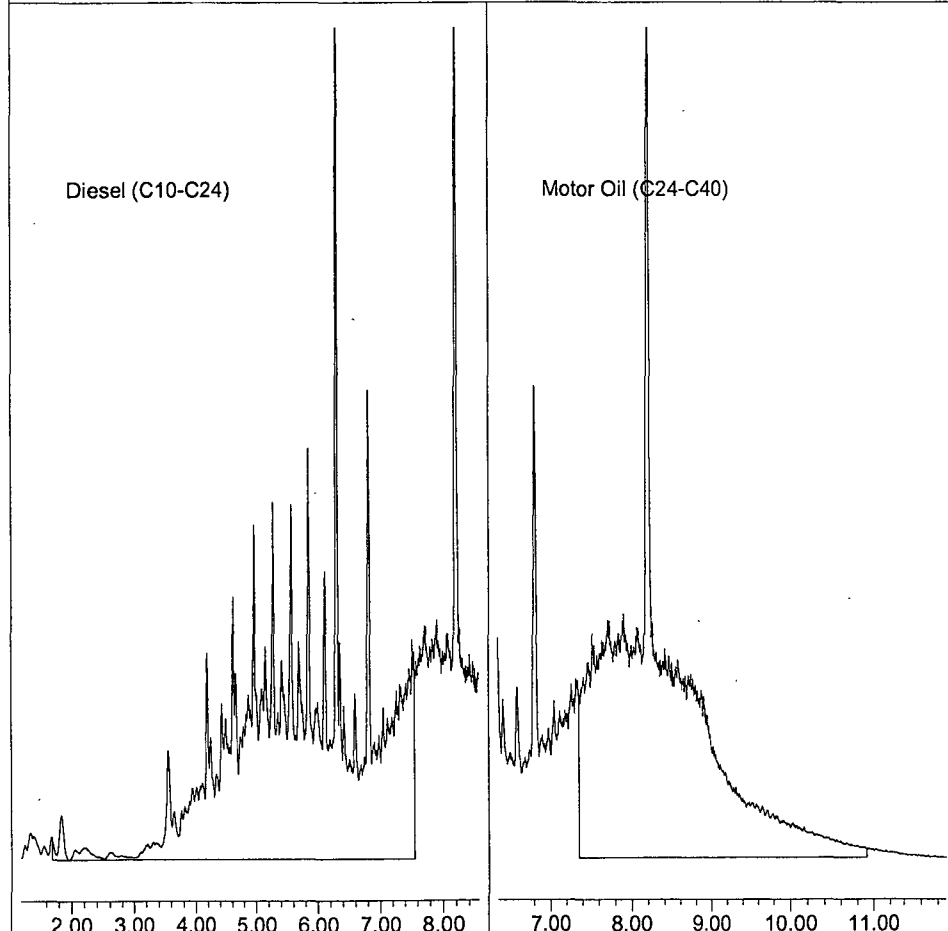
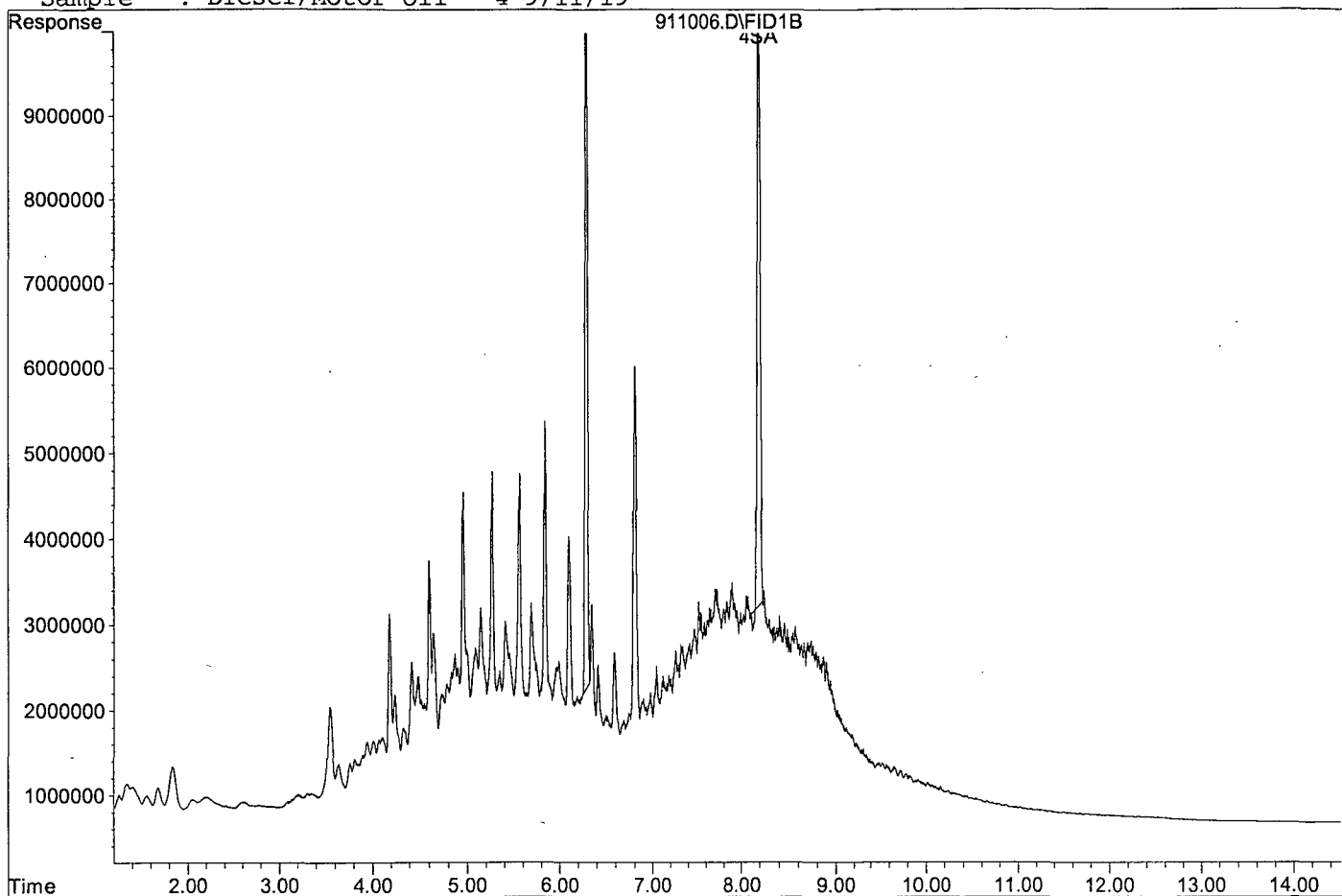
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	167561976	45.576 ppb
Surrogate Spike 30.000		Recovery =	151.92%
4) SA Octacosane(S)	8.19	162255227	44.642 ppb
Surrogate Spike 30.000		Recovery =	148.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	3608813483	977.592 ppb
2) HBTM Motor Oil (C24-C40)	9.13	2616701147	965.232 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911006.D

Sample : Diesel/Motor Oil - 4 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911007.D Vial: 7
 Acq On : 9-11-19 14:45:29 Operator: BT
 Sample : Diesel/Motor Oil - 5 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

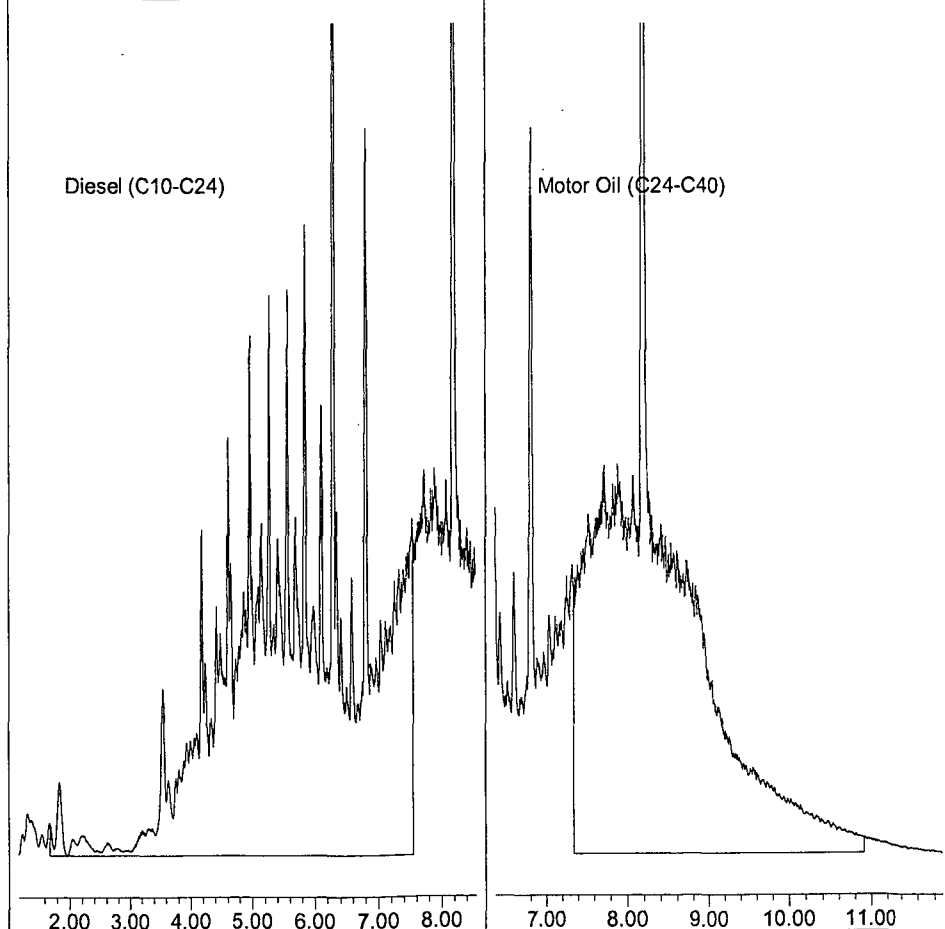
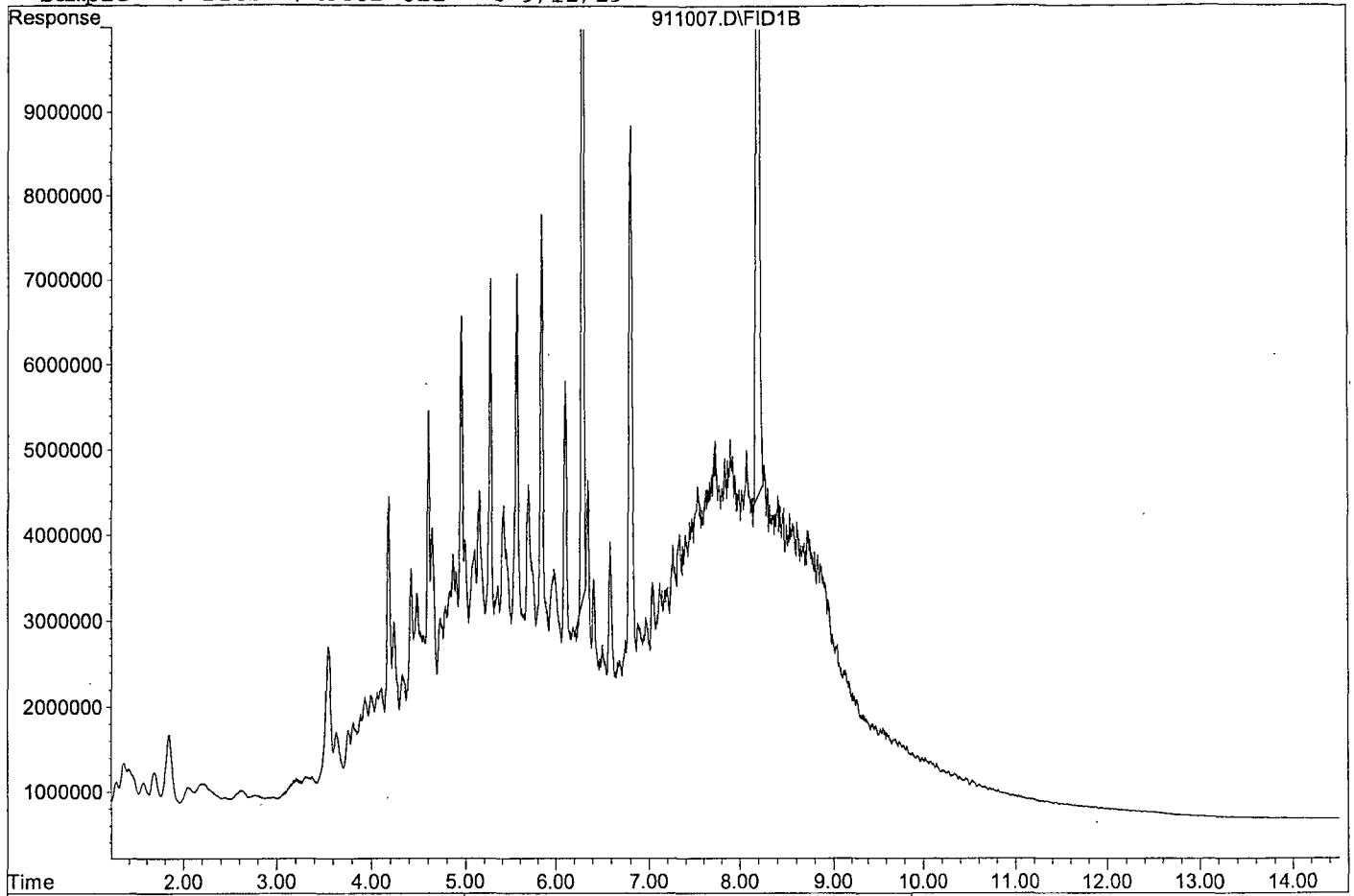
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	258530070	70.320 ppb
Surrogate Spike 30.000		Recovery =	234.40%
4) SA Octacosane(S)	8.20	272604437	75.003 ppb
Surrogate Spike 30.000		Recovery =	250.01%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	5748198779	1557.130 ppb
2) HBTM Motor Oil (C24-C40)	9.13	4125744424	1521.048 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911007.D
Sample : Diesel/Motor Oil - 5 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911008.D Vial: 8
 Acq On : 9-11-19 15:05:37 Operator: BT
 Sample : Diesel/Motor Oil - 6 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

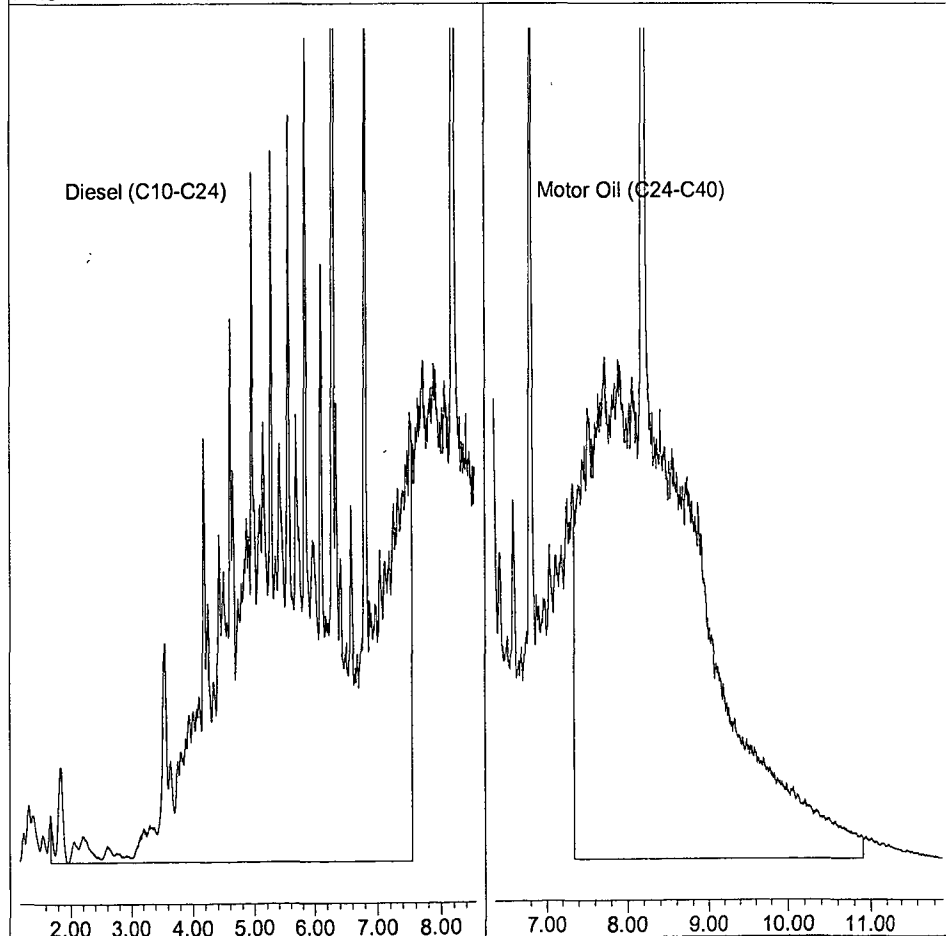
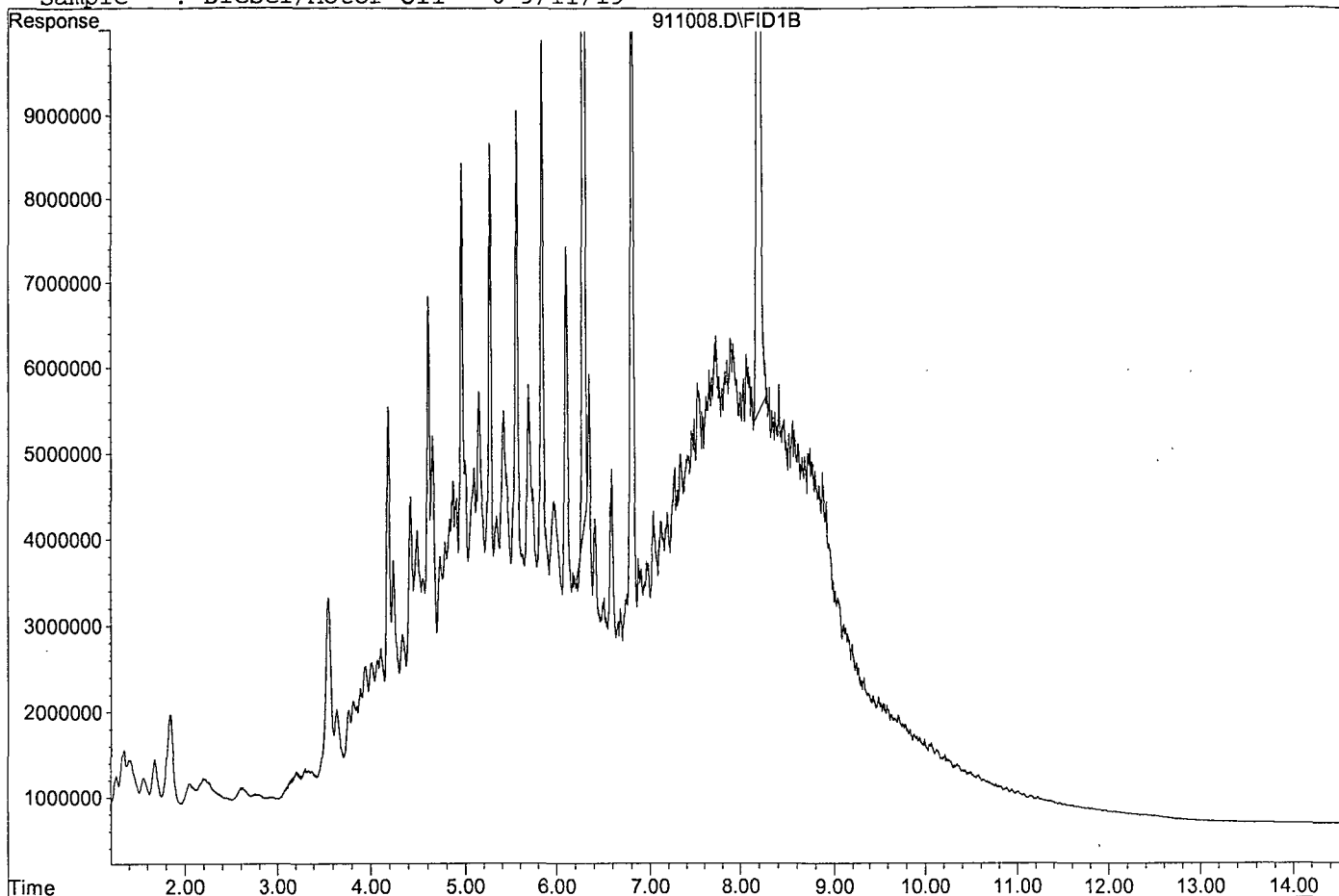
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

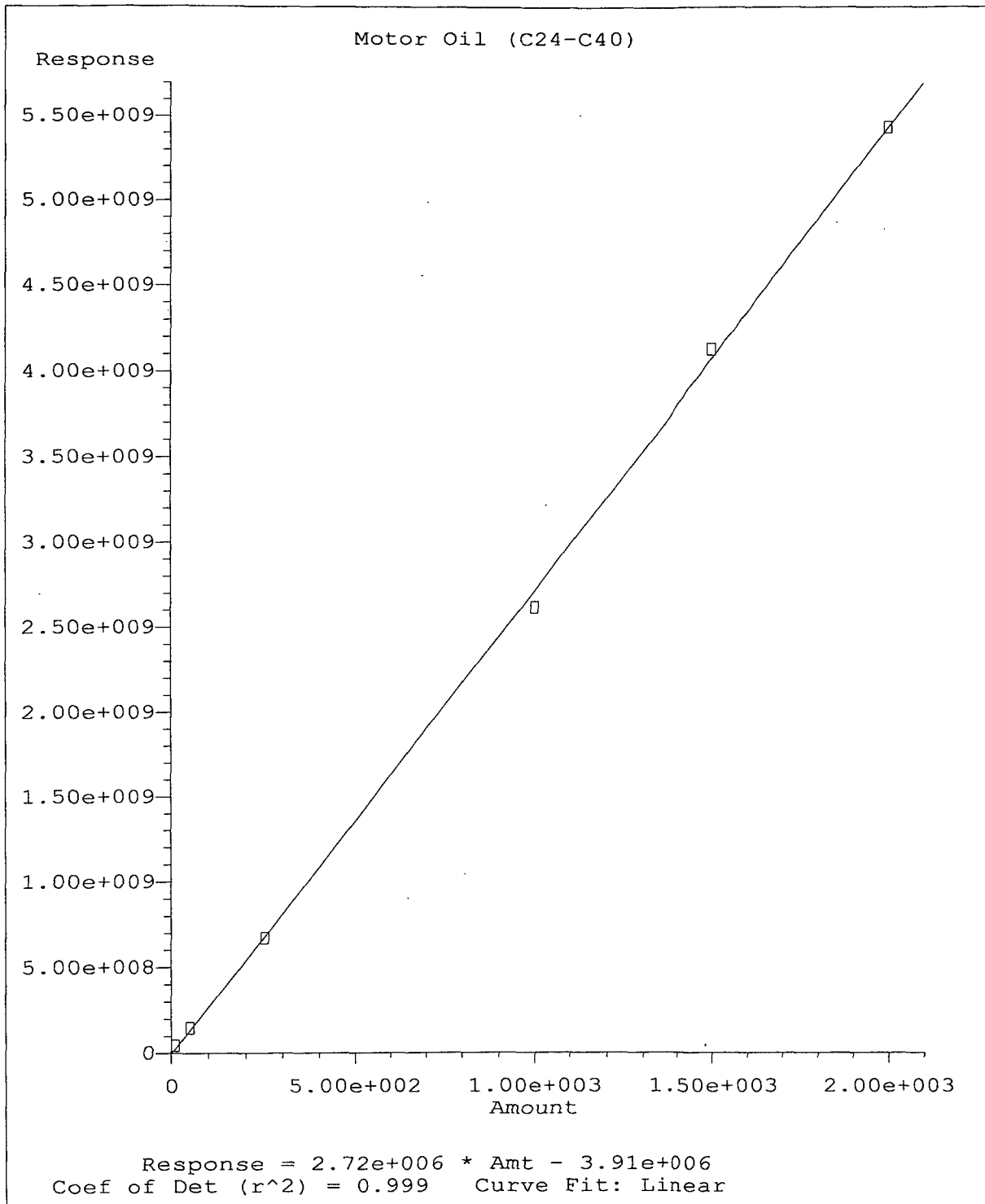
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	337370734	91.764 ppb
Surrogate Spike 30.000		Recovery =	305.88%
4) SA Octacosane(S)	8.21	374108579	102.930 ppb
Surrogate Spike 30.000		Recovery =	343.10%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	7537618628	2041.866 ppb
2) HBTM Motor Oil (C24-C40)	9.13	5430471626	2001.609 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911008.D

Sample : Diesel/Motor Oil - 6 9/11/19





Method Name: G:\APOLLO\DATA\190911\DOC0911.M
 Calibration Table Last Updated: Mon Sep 16 14:12:10 2019

TPH Extractables
DOC0911

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 09/11/19
Instrument: Apollo
Initial Cal. Date: 09/11/19
Data File: 911009.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	1845770	1998360	8.3	HATM	
2	HBTM	Motor Oil (C24-C40)	1511170	1551320	2.7	HBTML	15
3							
4							
5							
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38							
39							
40							

Average

5.5

Data File : G:\APOLLO\DATA\190911\911009.D Vial: 9
 Acq On : 9-11-19 15:25:51 Operator: BT
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 13:03 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

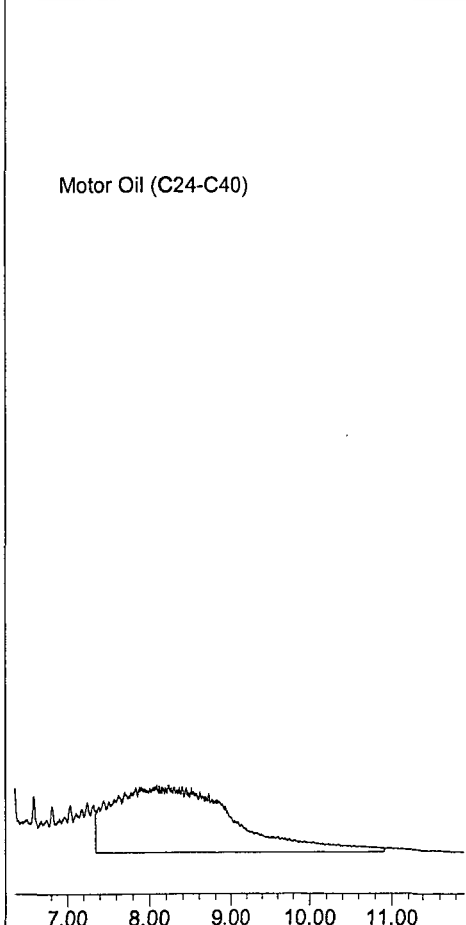
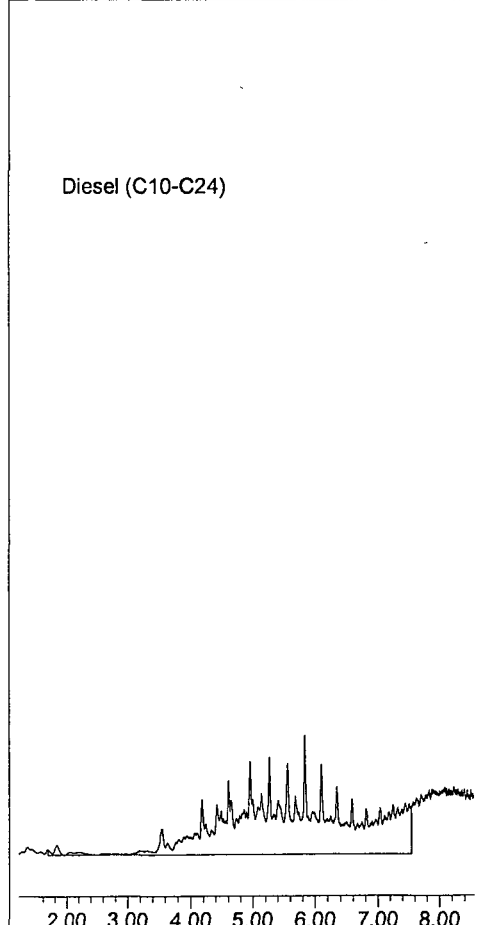
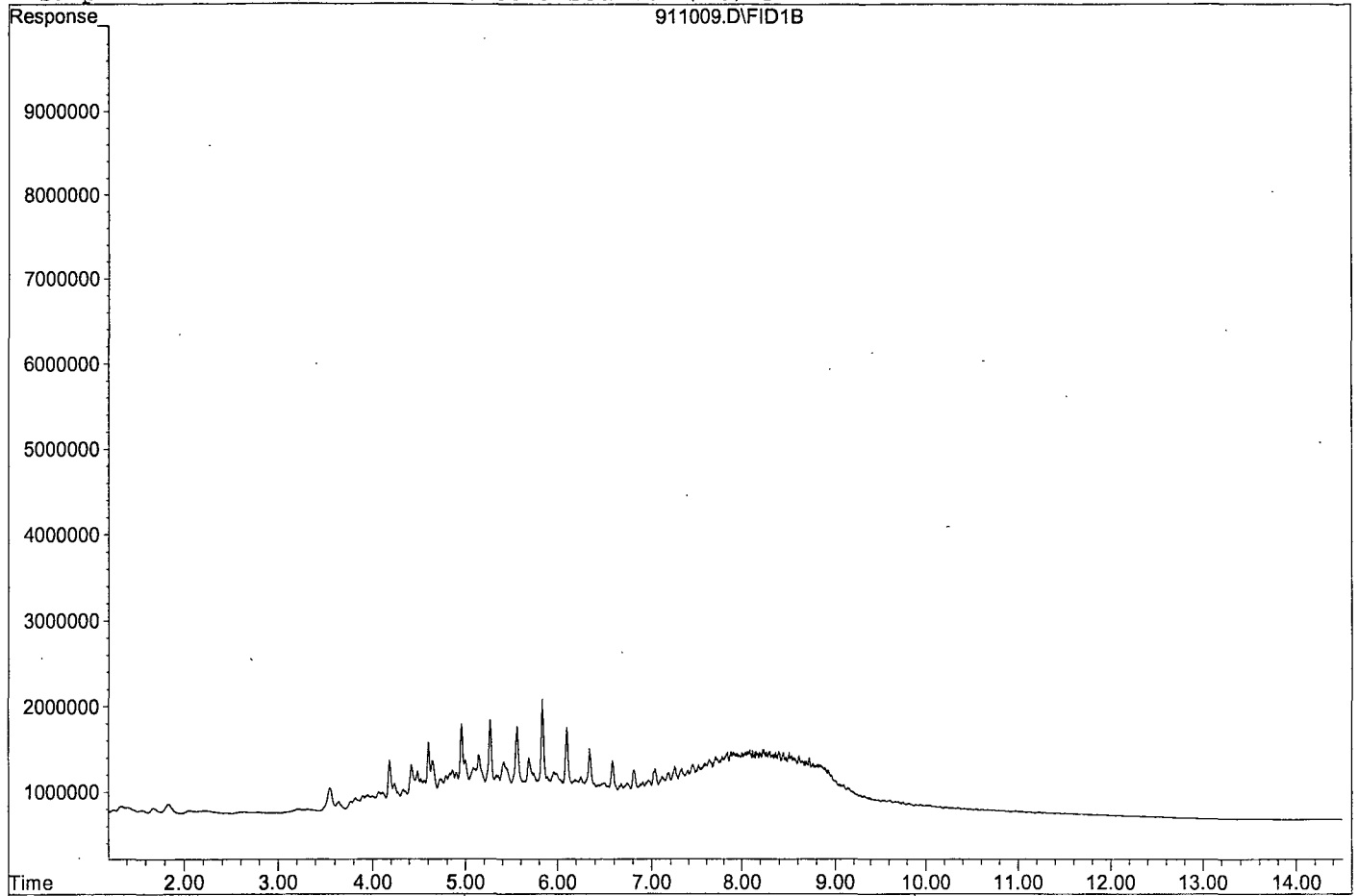
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 30.000		Recovery =	0.00%	
4) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 30.000		Recovery =	0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	4.62	999178897	270.668	ppb
2) HBTM Motor Oil (C24-C40)	9.13	775659942	287.133	ppb
Target Compounds				

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911009.D

Sample : Diesel/Motor Oil Second Source 1/15/19



TPH Extractables
DOC0911

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 11/07/19
Instrument: Apollo
Initial Cal. Date: 09/11/19
Data File: 1107002.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	1845770	1989050	7.8	HATM
2	HBTM Motor Oil (C24-C40)	1511170	1457340	3.6	HBTML 7.9
3	SA Ortho-Terphenyl(S)	1838250	1777170	3.3	SA
4	SA Octacosane(S)	1817300	1910780	5.1	SA
5					
6					
7					
8					
9					
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39					
40					

Average

5.0

Data File : G:\APOLLO\DATA\191107\1107002.D Vial: 2
 Acq On : 11-7-19 18:16:59 Operator: BT
 Sample : Diesel Motor Oil CCV 10/21/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

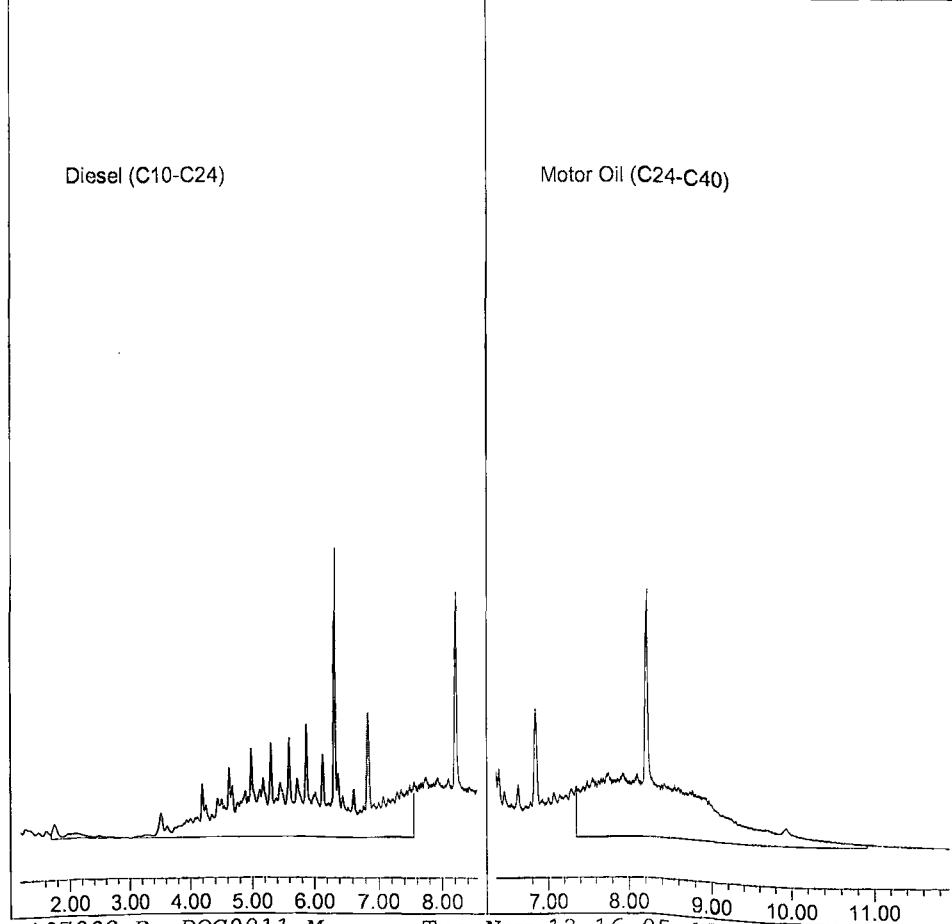
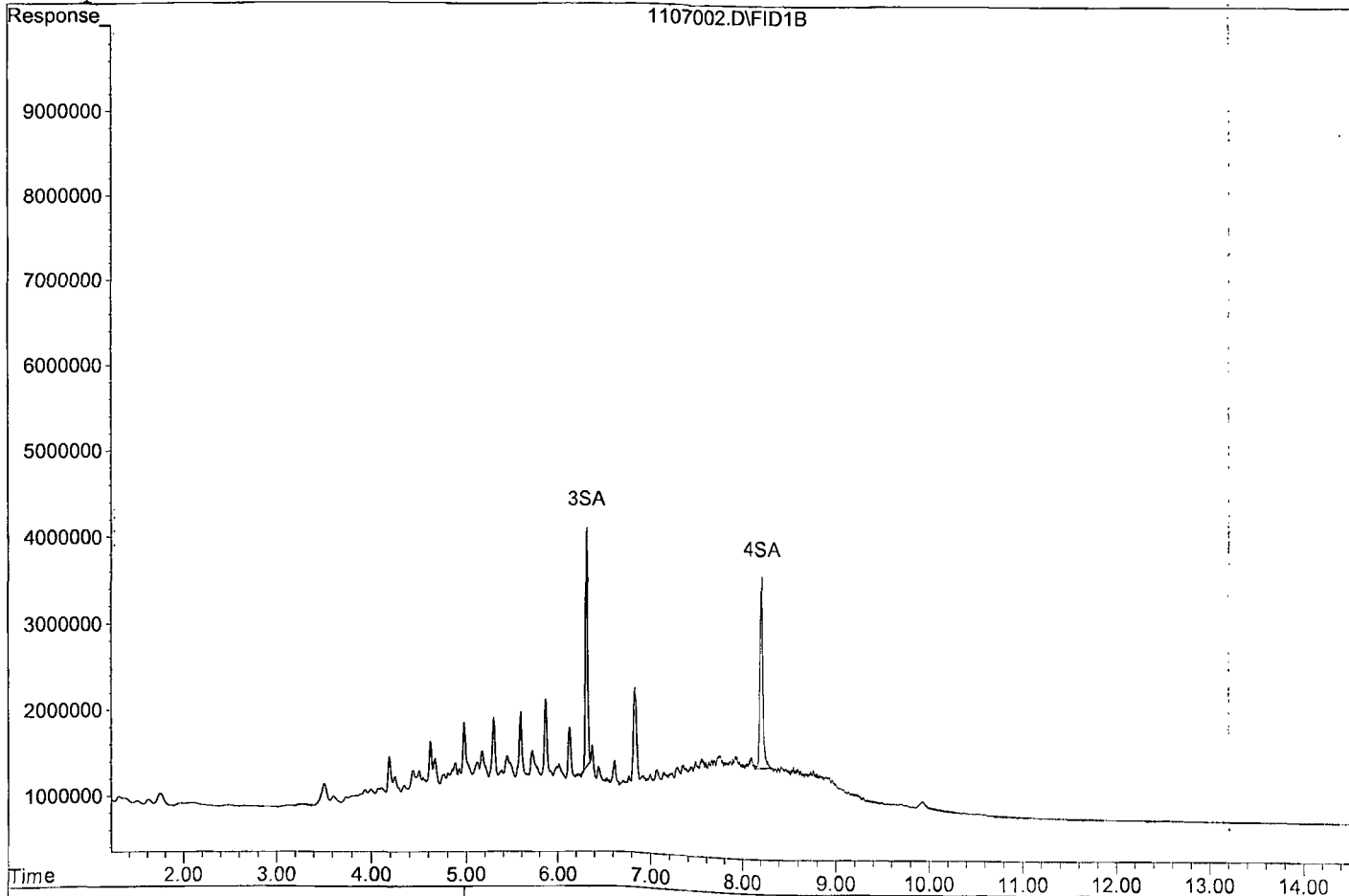
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	44429245	12.085 ppb
Surrogate Spike 30.000		Recovery =	40.28%
4) SA Octacosane(S)	8.22	47769535	13.143 ppb
Surrogate Spike 30.000		Recovery =	43.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	994523583	269.407 ppb
2) HBTM Motor Oil (C24-C40)	9.13	728669156	269.825 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107002.D

Sample : Diesel Motor Oil CCV 10/21/19



TPH Extractables
DOC0911

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 11/08/19
Instrument: Apollo
Initial Cal. Date: 09/11/19
Data File: 1107019.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	1845770	2083260	13	HATM	
2	HBTM Motor Oil (C24-C40)	1511170	1538580	1.8	HBTML	14
3	SA Ortho-Terphenyl(S)	1838250	1892640	3.0	SA	
4	SA Octacosane(S)	1817300	1825430	0.45	SA	
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39						
40	Average			4.6		

Data File : G:\APOLLO\DATA\191107\1107019.D Vial: 19
 Acq On : 11-8-19 0:00:37 Operator: BT
 Sample : Diesel Motor Oil CCV 10/21/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 12 15:26 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

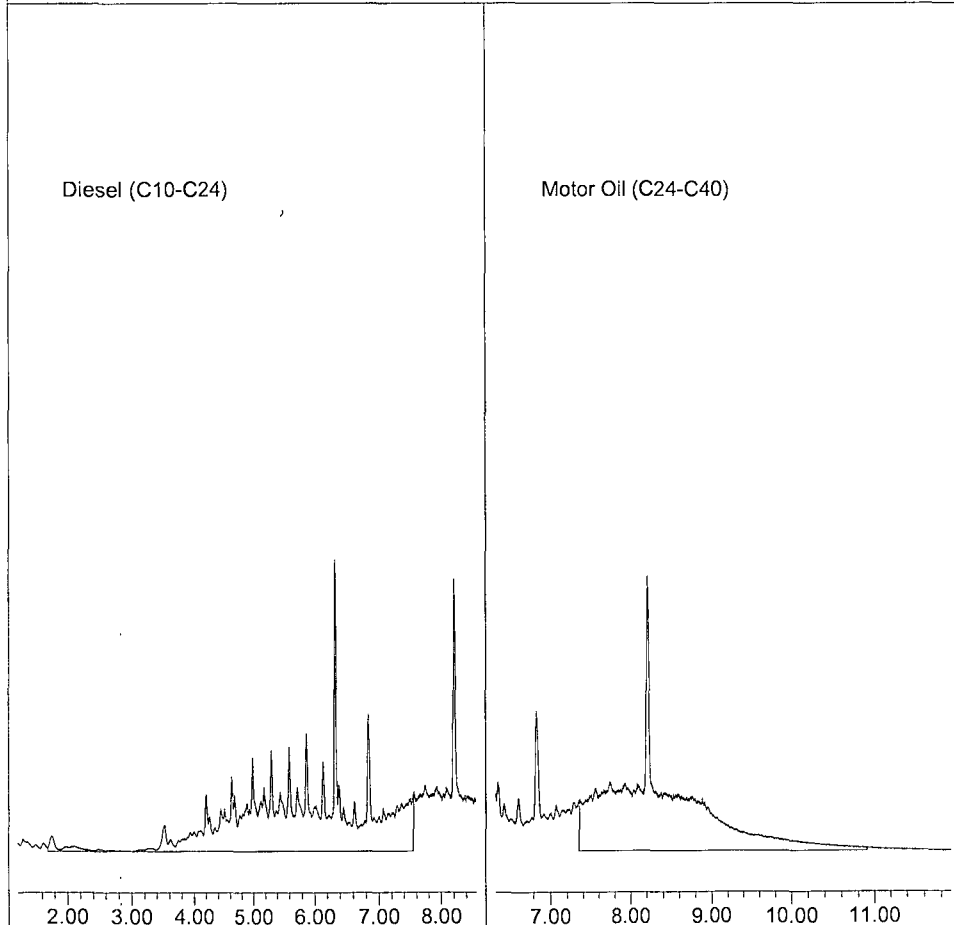
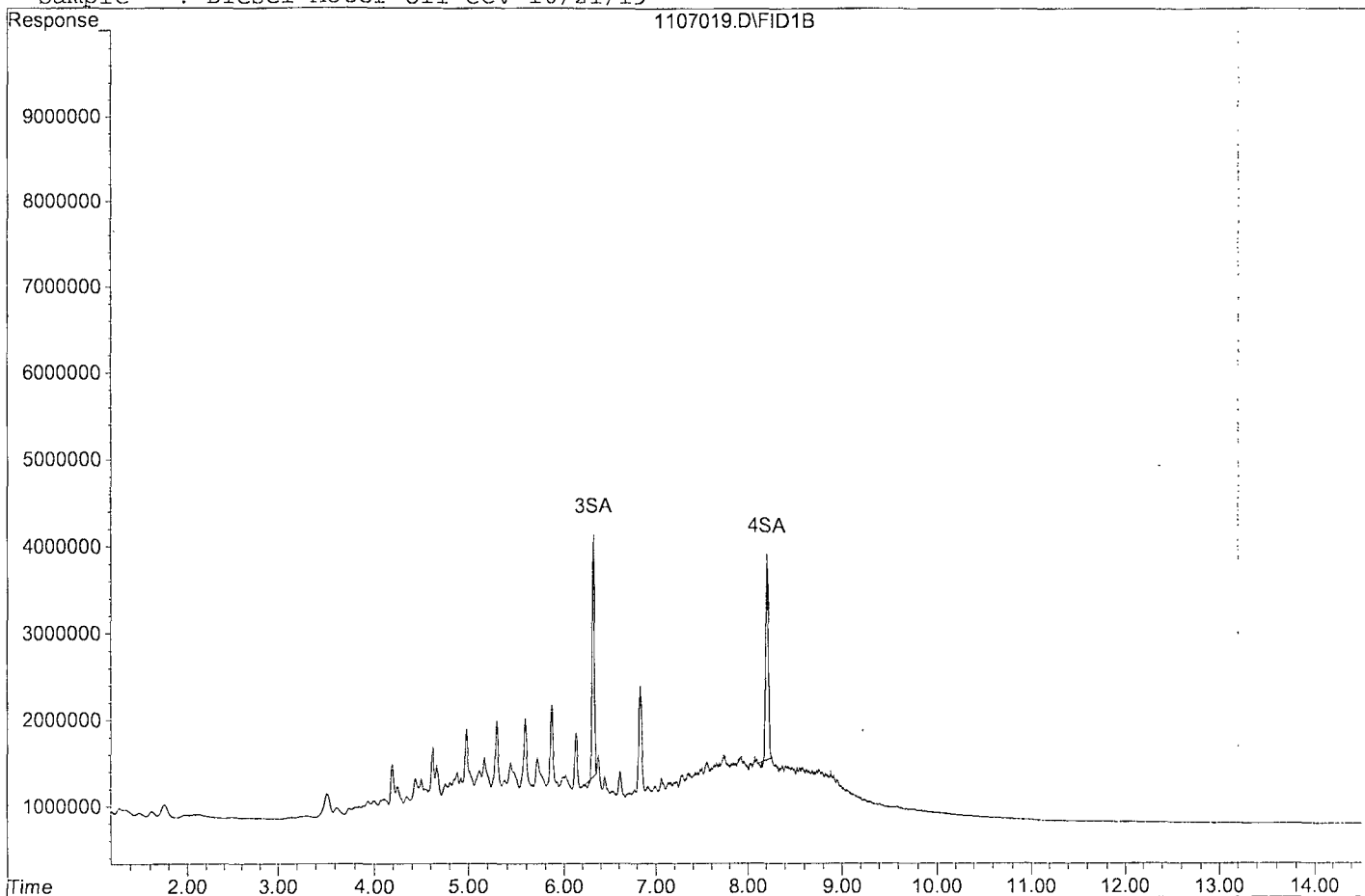
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47316065	12.870 ppb
Surrogate Spike 30.000		Recovery =	42.90%
4) SA Octacosane(S)	8.21	45635759	12.556 ppb
Surrogate Spike 30.000		Recovery =	41.85%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	1041628409	282.167 ppb
2) HBTM Motor Oil (C24-C40)	9.13	769291477	284.787 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107019.D

Sample : Diesel Motor Oil CCV 10/21/19



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\191107\1107006.D Vial: 6
 Acq On : 11-7-19 19:39:16 Operator: BT
 Sample : BA01775W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

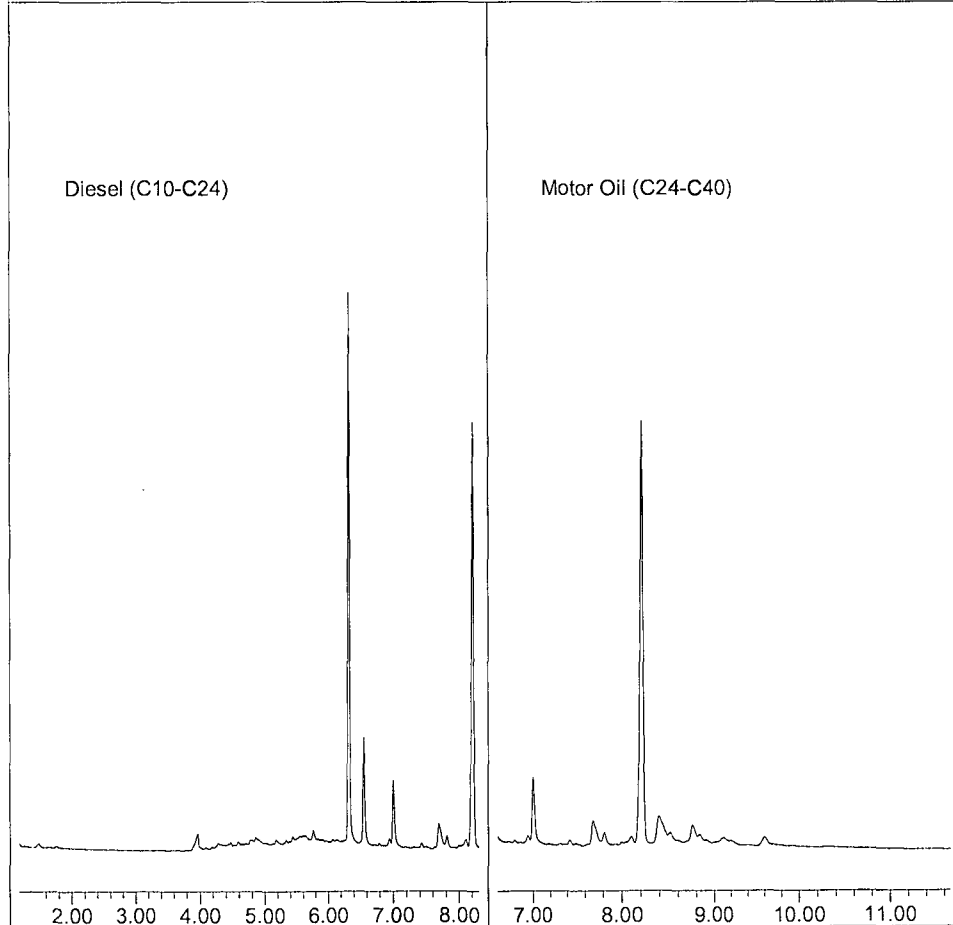
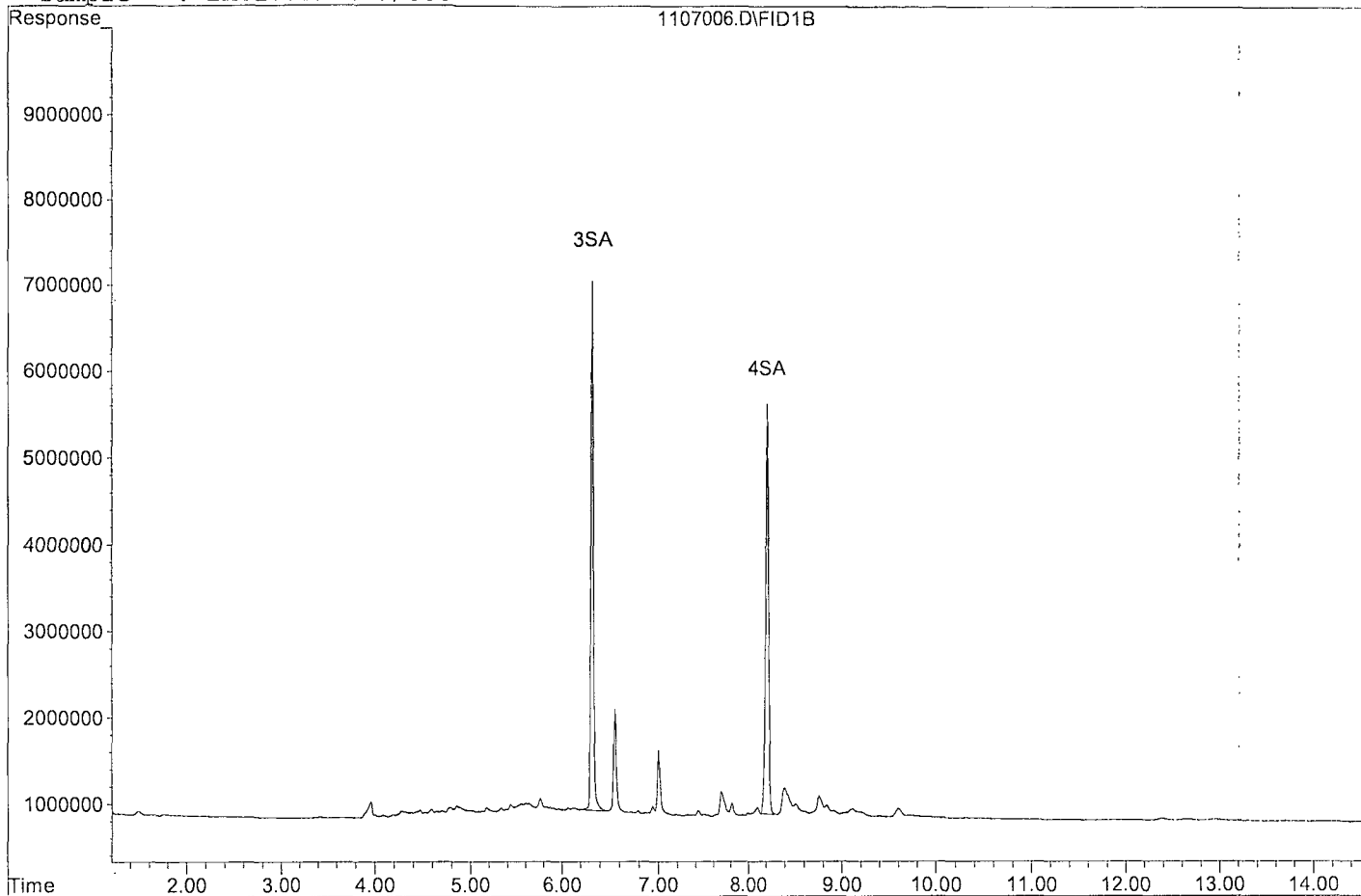
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	109911447	74.739 ppb
Surrogate Spike 75.000		Recovery =	99.65%
4) SA Octacosane(S)	8.21	106050387	72.945 ppb
Surrogate Spike 75.000		Recovery =	97.26%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107006.D

Sample : BA01775W12 2/800



Data File : G:\APOLLO\DATA\191107\1107007.D Vial: 7
 Acq On : 11-7-19 19:59:45 Operator: BT
 Sample : BA01777W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

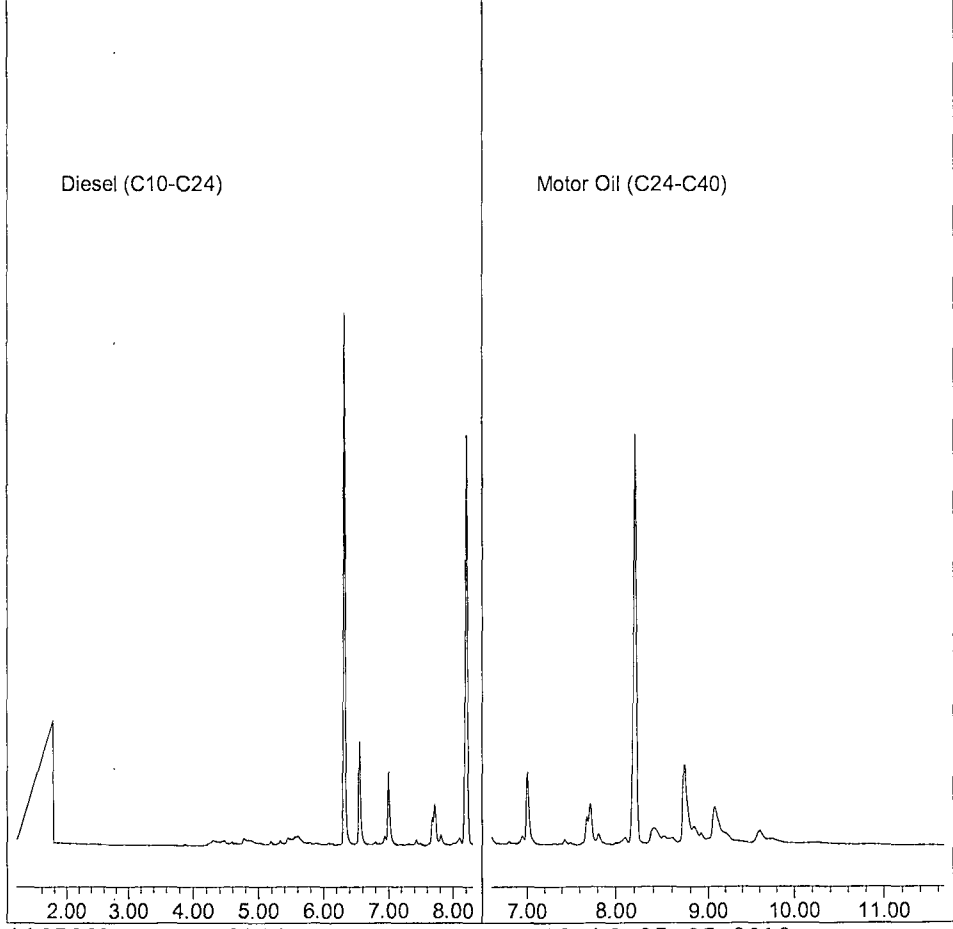
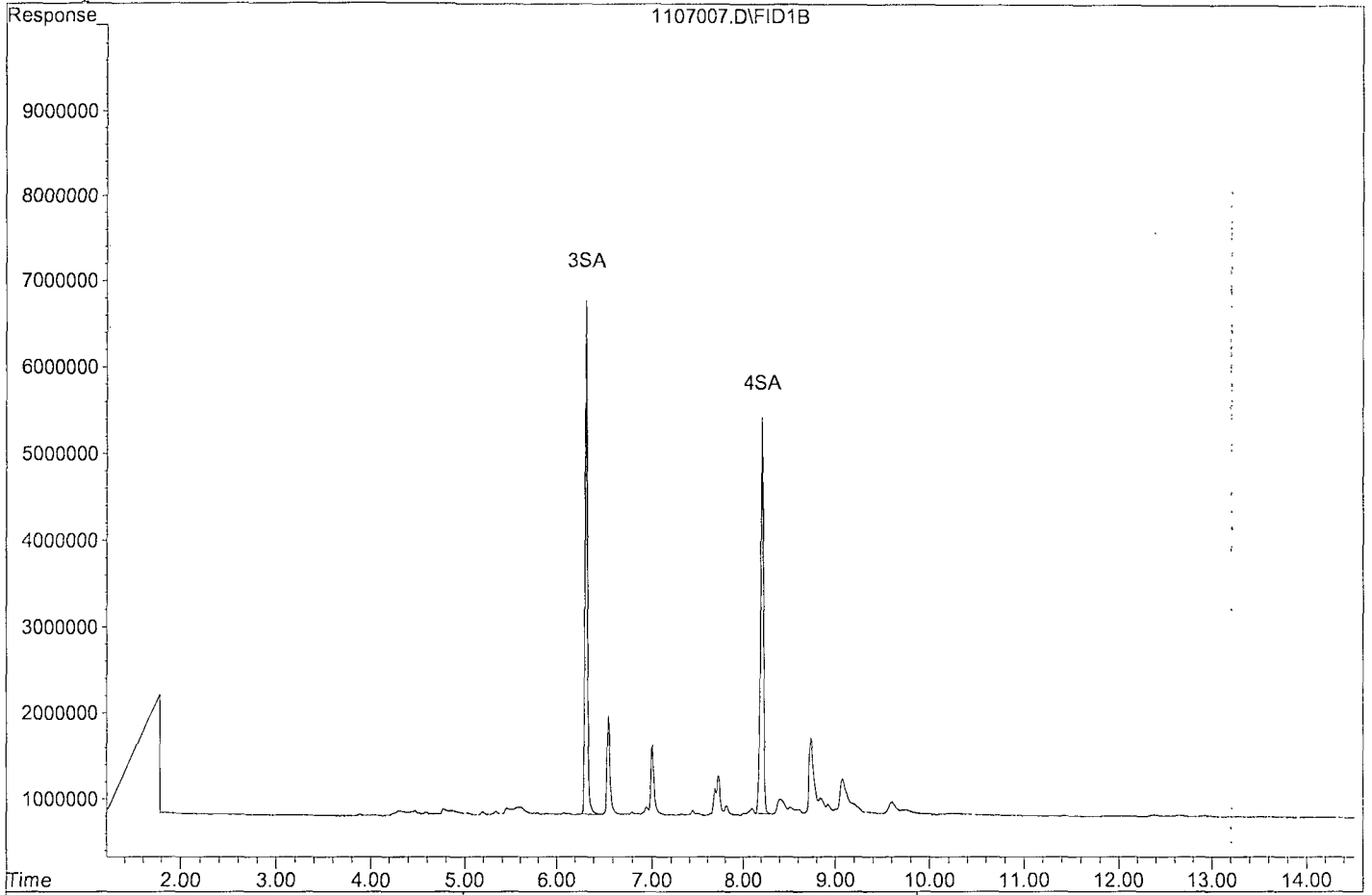
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	105512199	71.748 ppb
Surrogate Spike 75.000		Recovery =	95.66%
4) SA Octacosane(S)	8.21	99814557	68.656 ppb
Surrogate Spike 75.000		Recovery =	91.54%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107007.D

Sample : BA01777W12 2/800



Data File : G:\APOLLO\DATA\191107\1107008.D Vial: 8
 Acq On : 11-7-19 20:20:13 Operator: BT
 Sample : BA01779W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

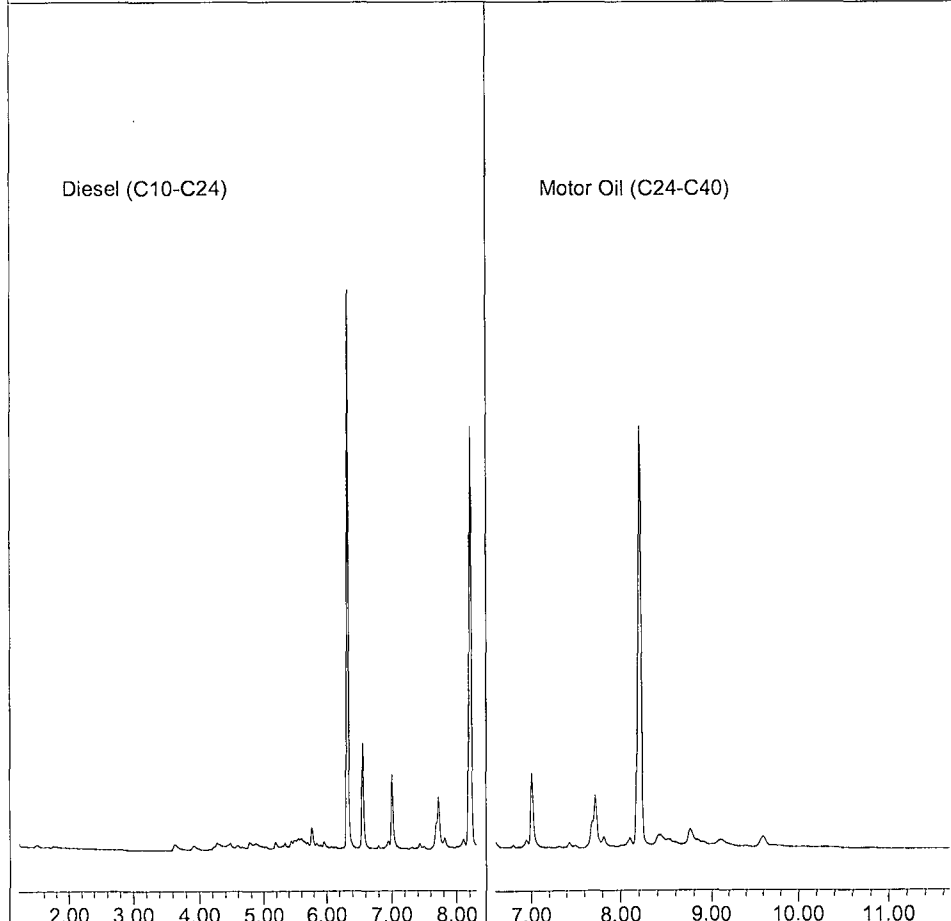
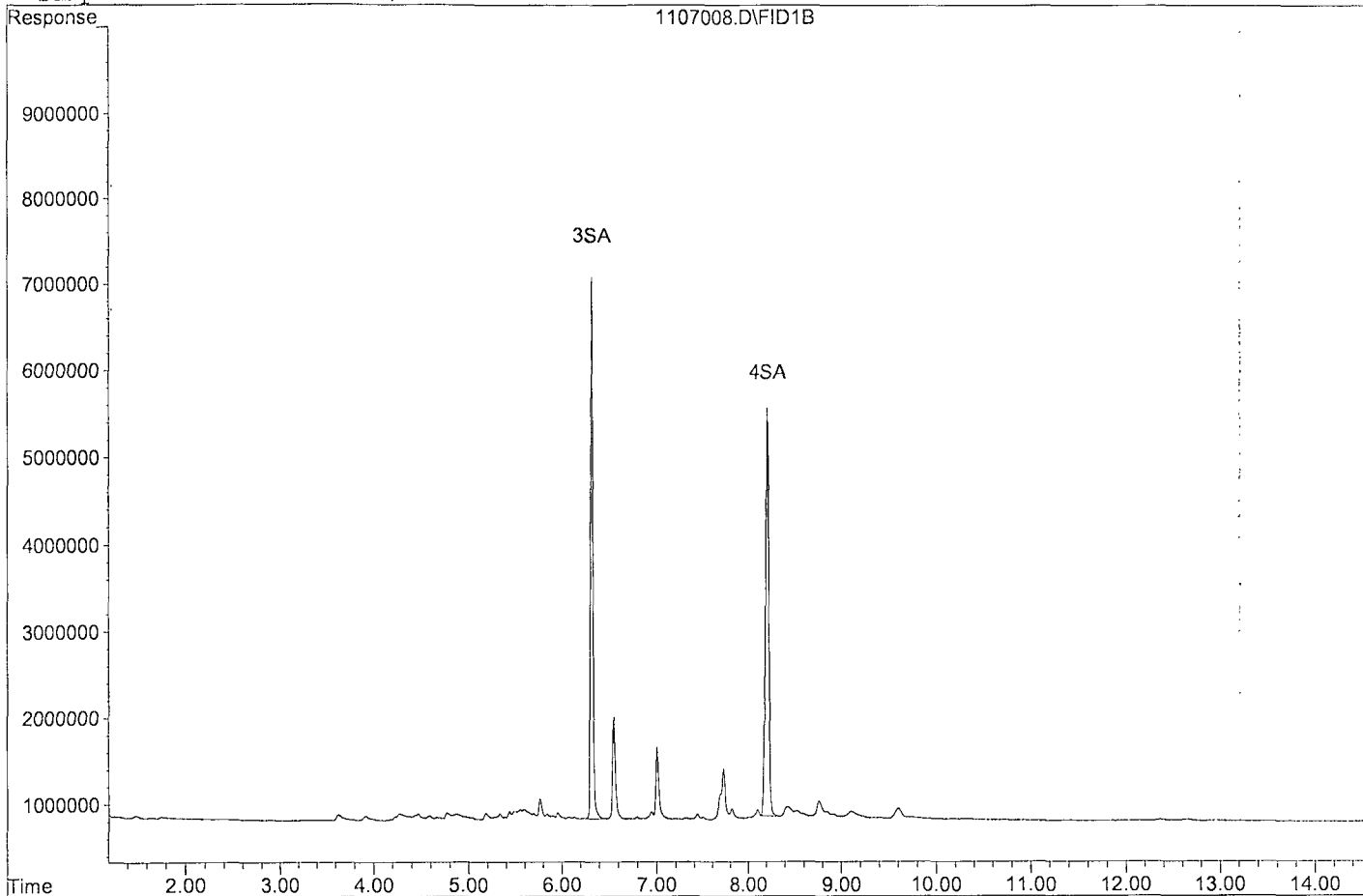
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	108122216	73.522 ppb
Surrogate Spike 75.000		Recovery =	98.03%
4) SA Octacosane(S)	8.21	116113265	79.867 ppb
Surrogate Spike 75.000		Recovery =	106.49%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBIM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107008.D

Sample : BA01779W12 2/800



Data File : G:\APOLLO\DATA\191107\1107009.D Vial: 9
 Acq On : 11-7-19 20:40:38 Operator: BT
 Sample : BA01781W13 2/80 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

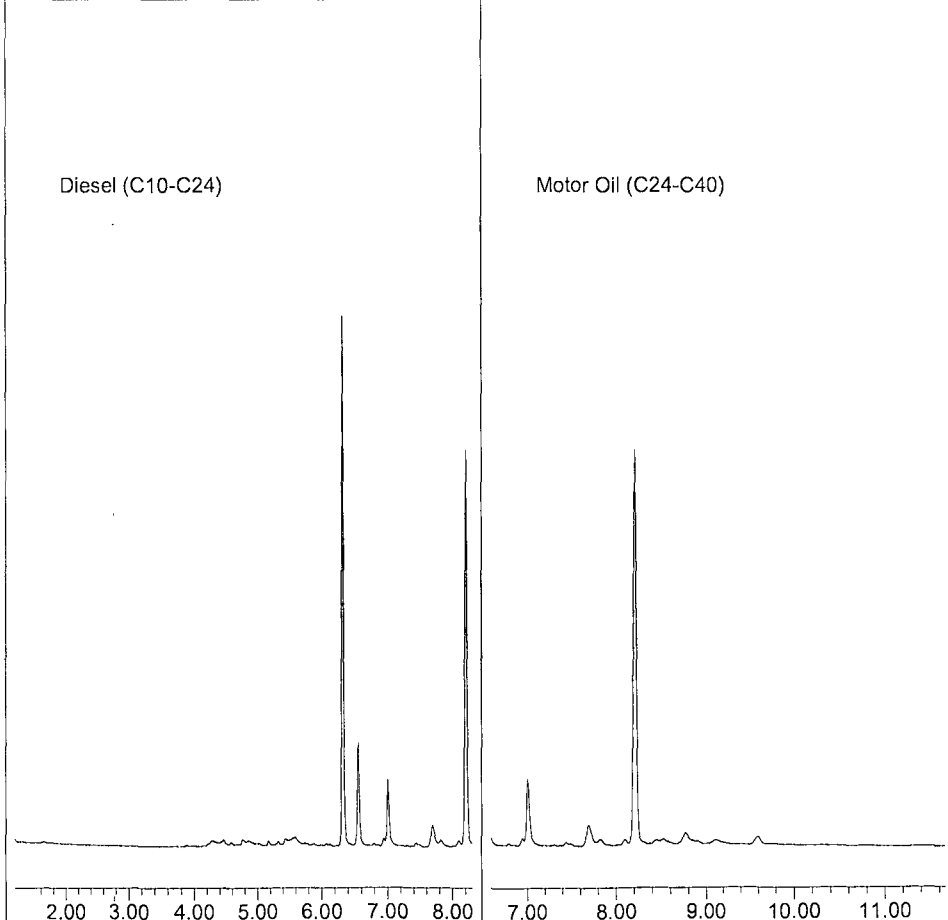
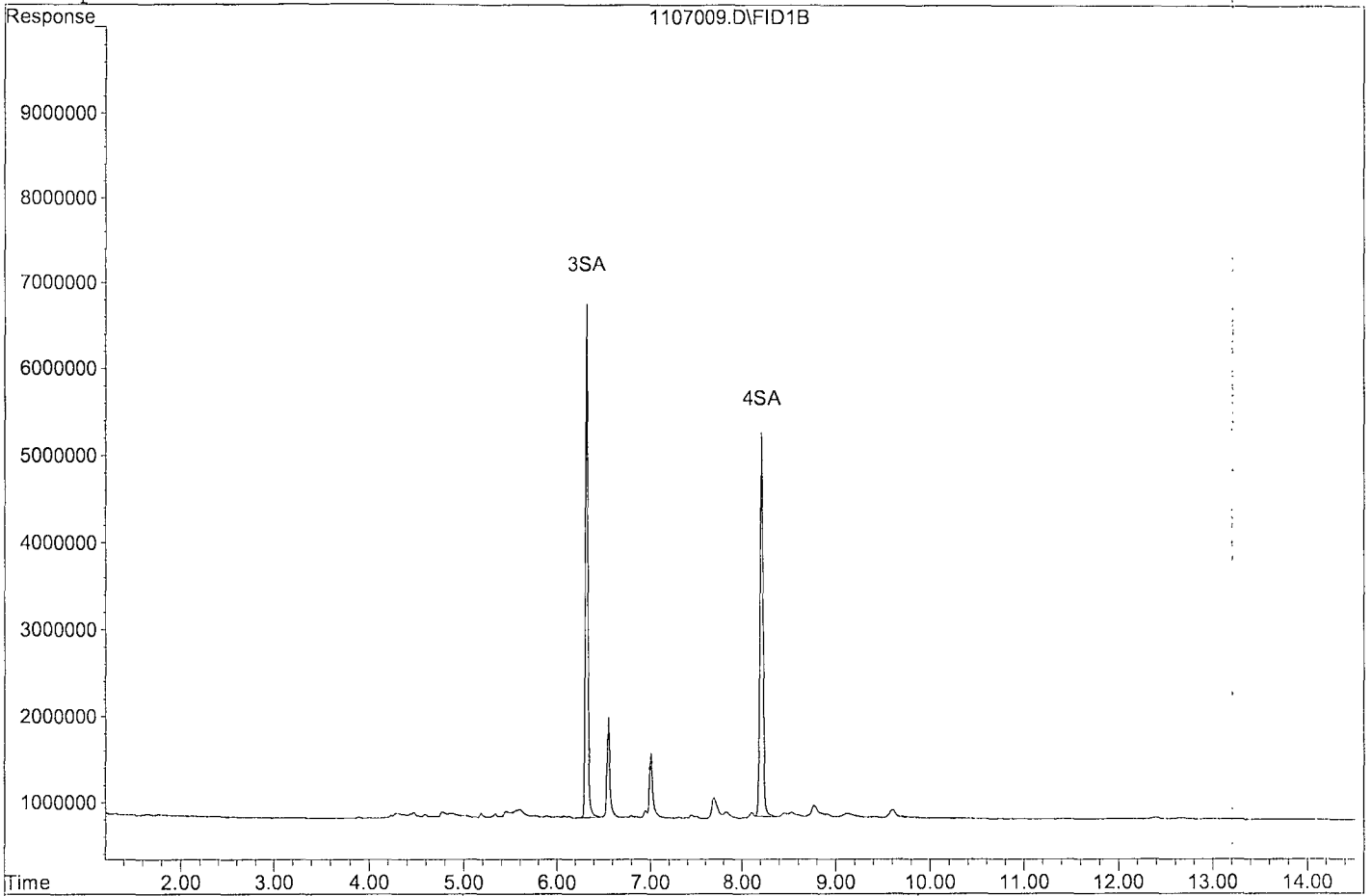
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	105830075	71.964 ppb
Surrogate Spike 75.000		Recovery =	95.95%
4) SA Octacosane(S)	8.21	100007930	68.789 ppb
Surrogate Spike 75.000		Recovery =	91.72%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBIM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107009.D

Sample : BA01781W13 2/80



Data File : G:\APOLLO\DATA\191107\1107010.D Vial: 10
 Acq On : 11-7-19 21:01:01 Operator: BT
 Sample : BA01782W13 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

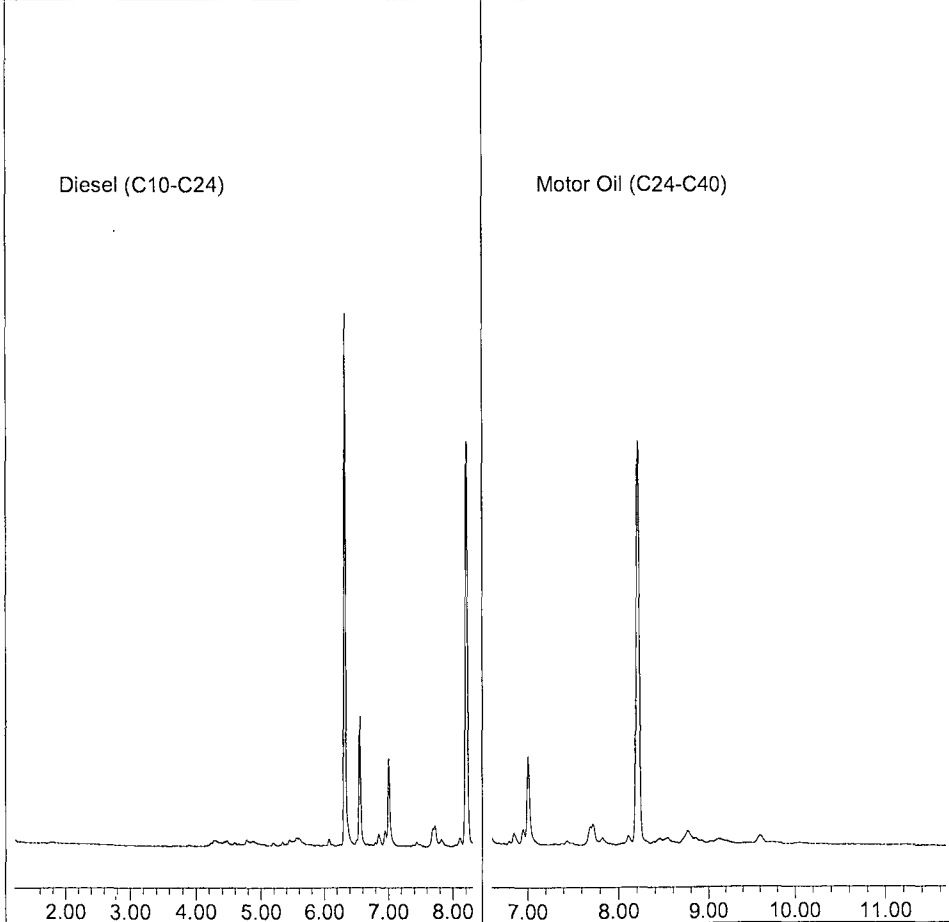
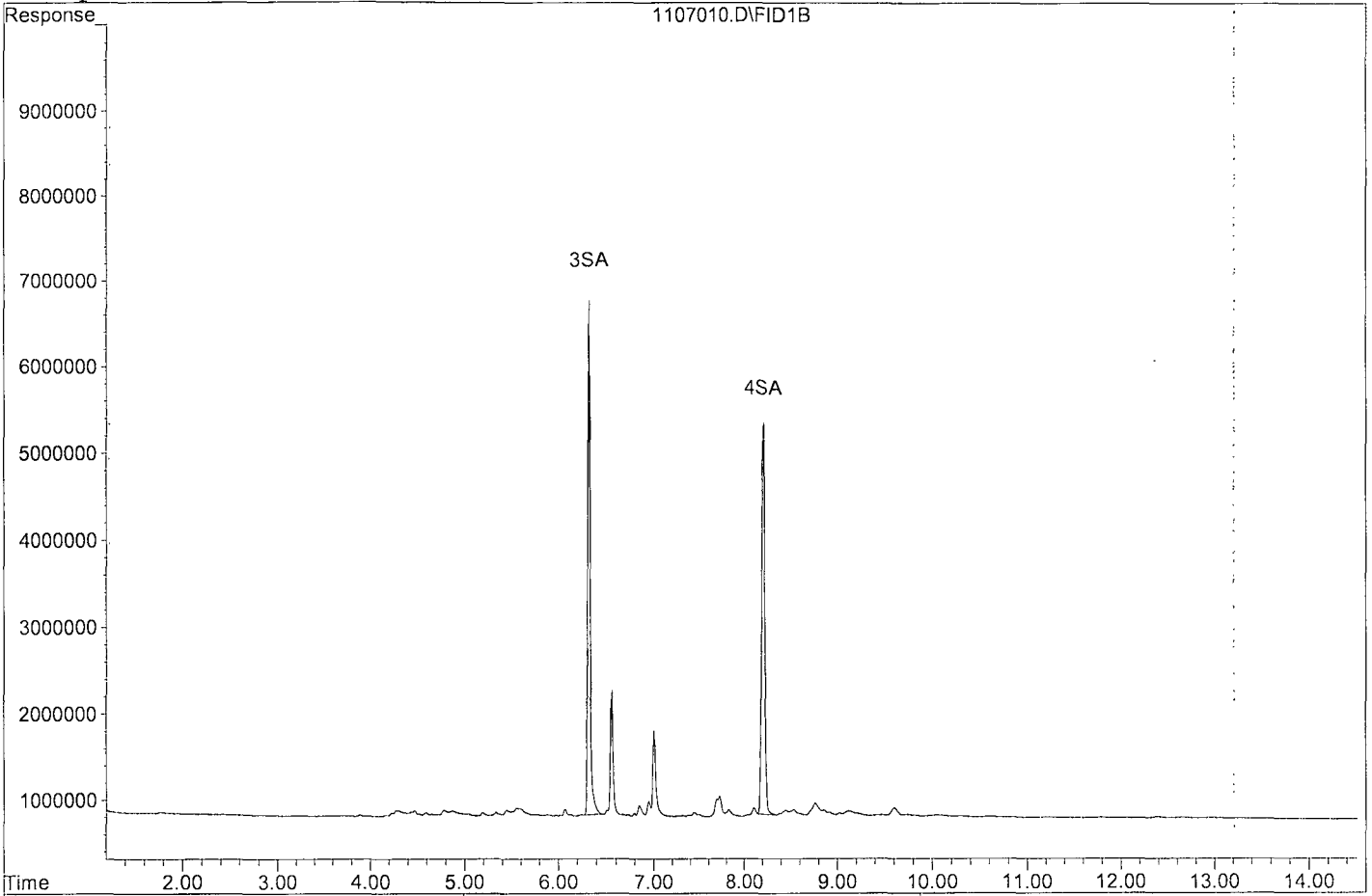
Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	107518848	73.112 ppb
Surrogate Spike 75.000		Recovery =	97.48%
4) SA Octacosane(S)	8.21	108423806	74.578 ppb
Surrogate Spike 75.000		Recovery =	99.44%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107010.D
Sample : BA01782W13 2/800



Data File : G:\APOLLO\DATA\191107\1107011.D Vial: 11
 Acq On : 11-7-19 21:21:16 Operator: BT
 Sample : BA01784W15 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

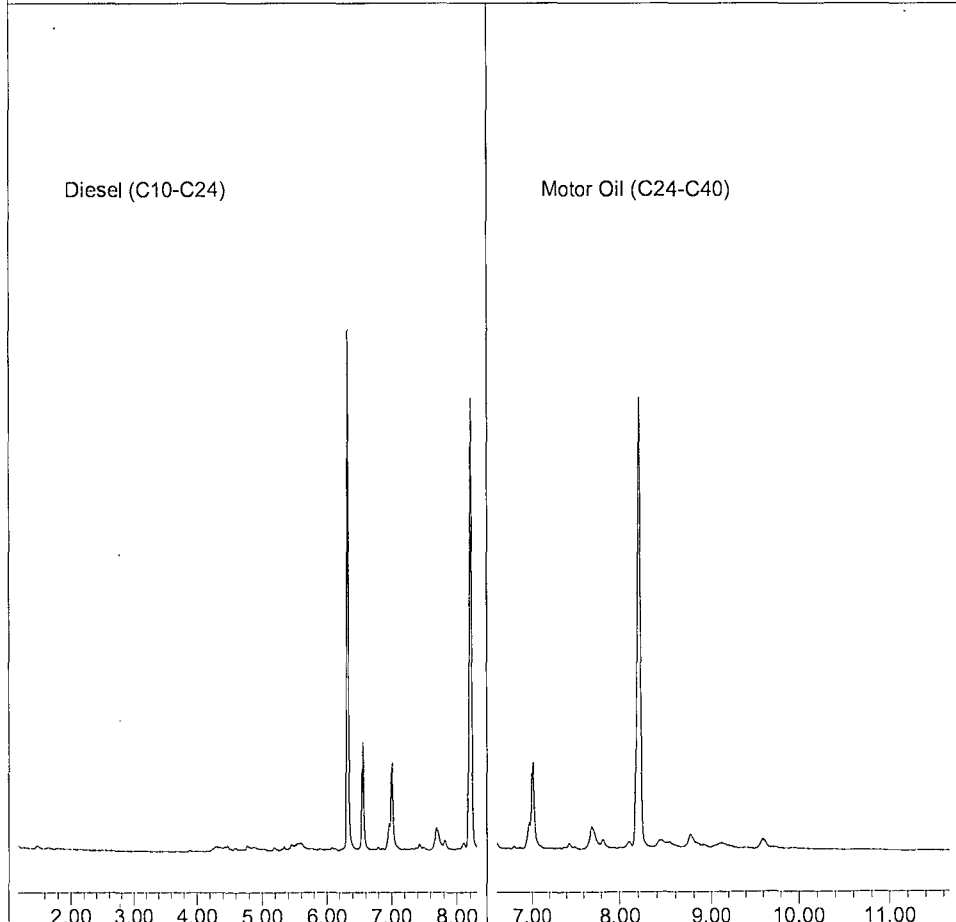
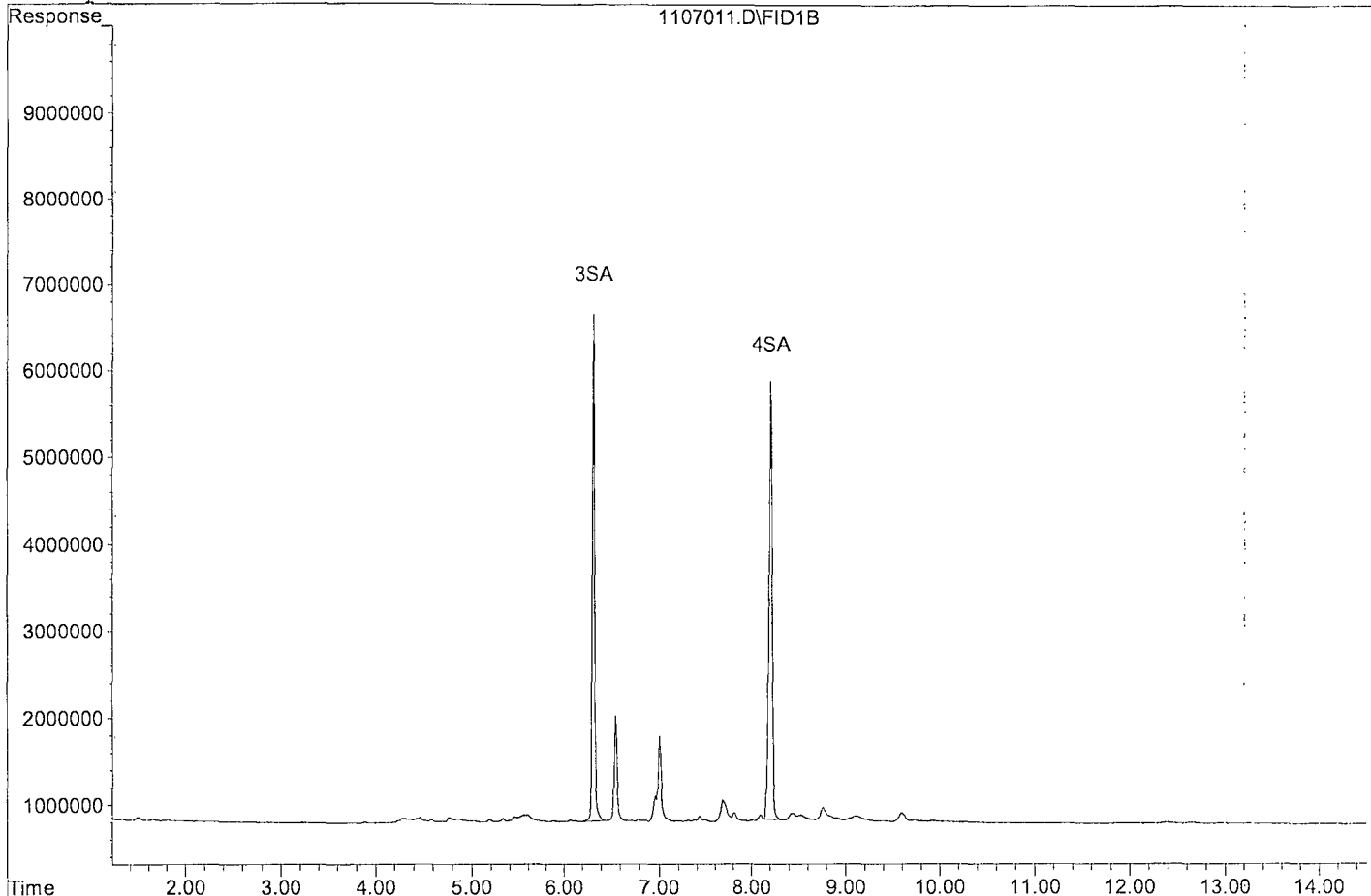
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.32	105544624	71.770	ppb
Surrogate Spike 75.000		Recovery =	95.69%	
4) SA Octacosane(S)	8.21	119979834	82.526	ppb
Surrogate Spike 75.000		Recovery =	110.03%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107011.D

Sample : BA01784W15 2/800



Data File : G:\APOLLO\DATA\191107\1107003.D Vial: 3
 Acq On : 11-7-19 18:37:30 Operator: BT
 Sample : 191029A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:49 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

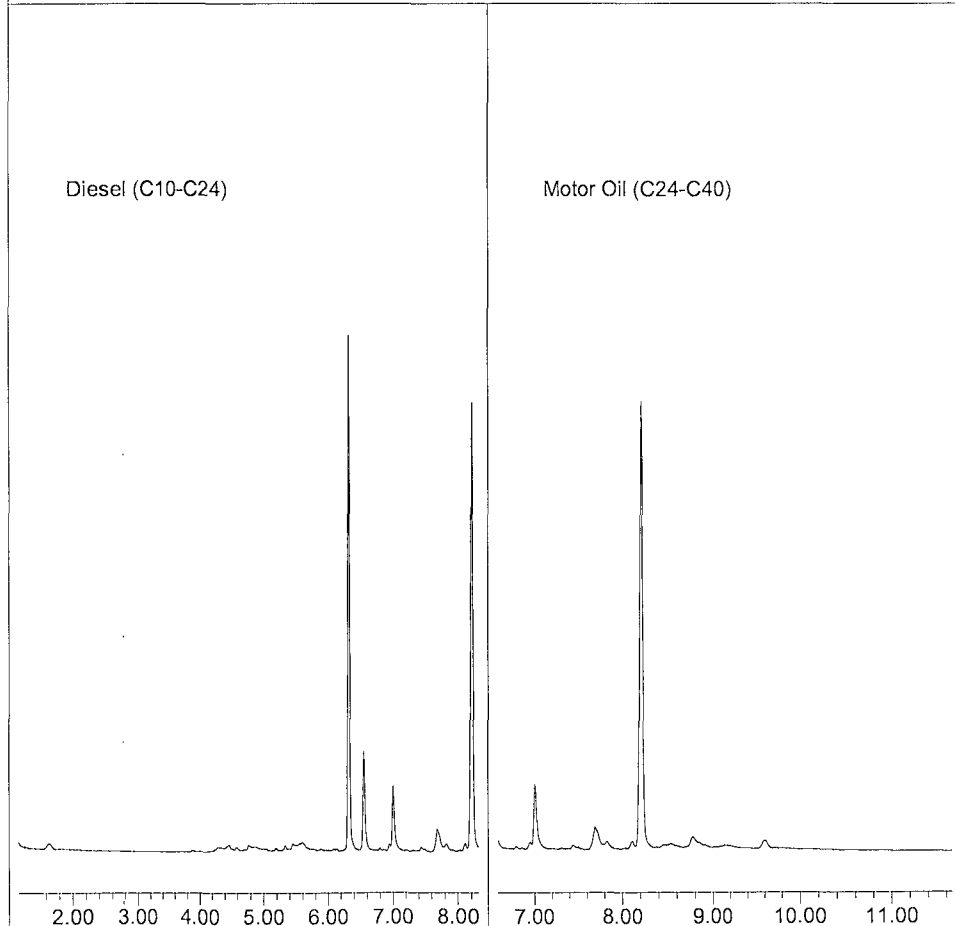
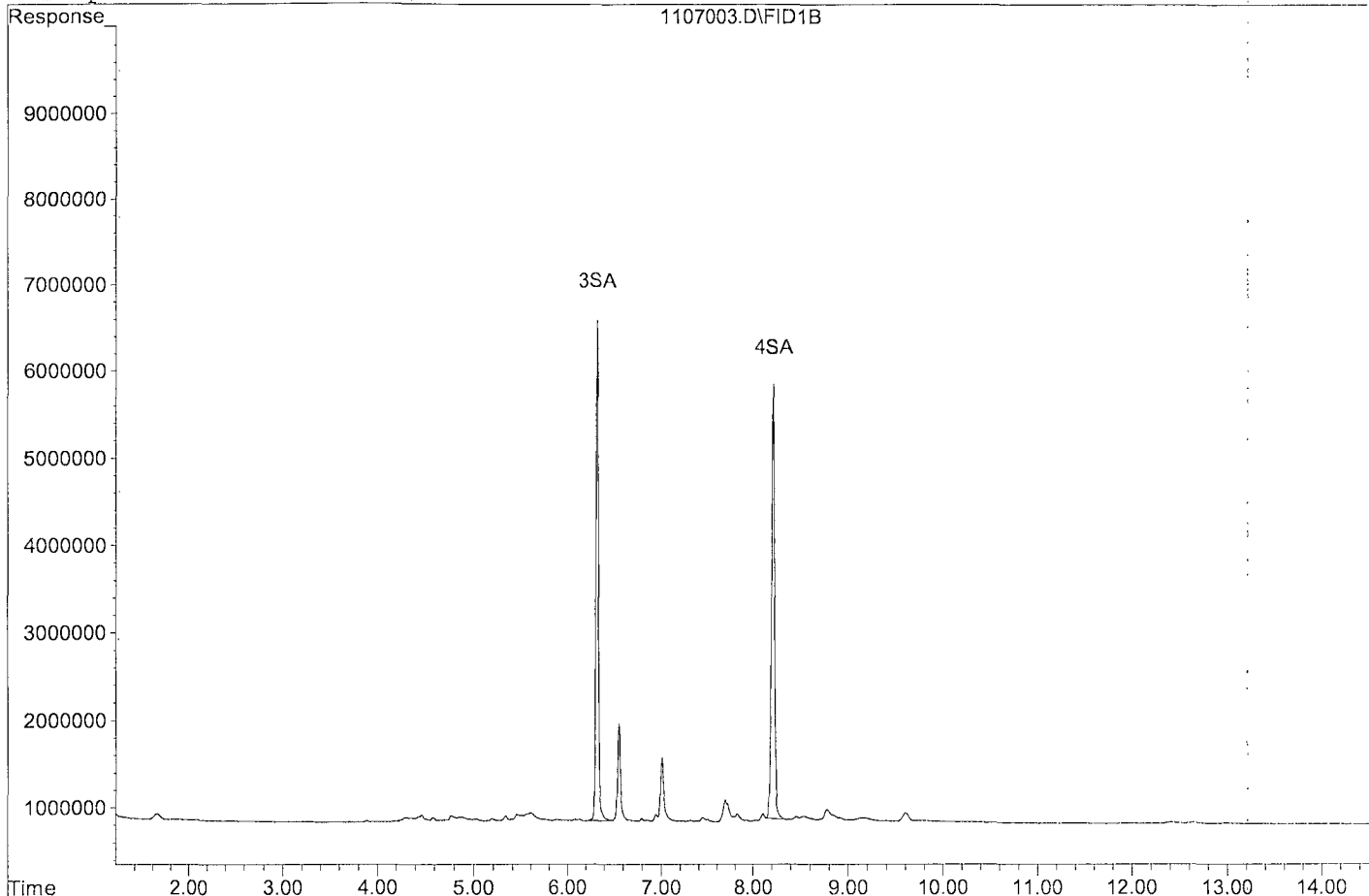
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	108108569	73.513 ppb
Surrogate Spike 75.000		Recovery =	98.02%
4) SA Octacosane(S)	8.21	110979971	76.336 ppb
Surrogate Spike 75.000		Recovery =	101.78%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107003.D

Sample : 191029A BLK 2/800



Data File : G:\APOLLO\DATA\191107\1107004.D Vial: 4
 Acq On : 11-7-19 18:58:07 Operator: BF
 Sample : 191029A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

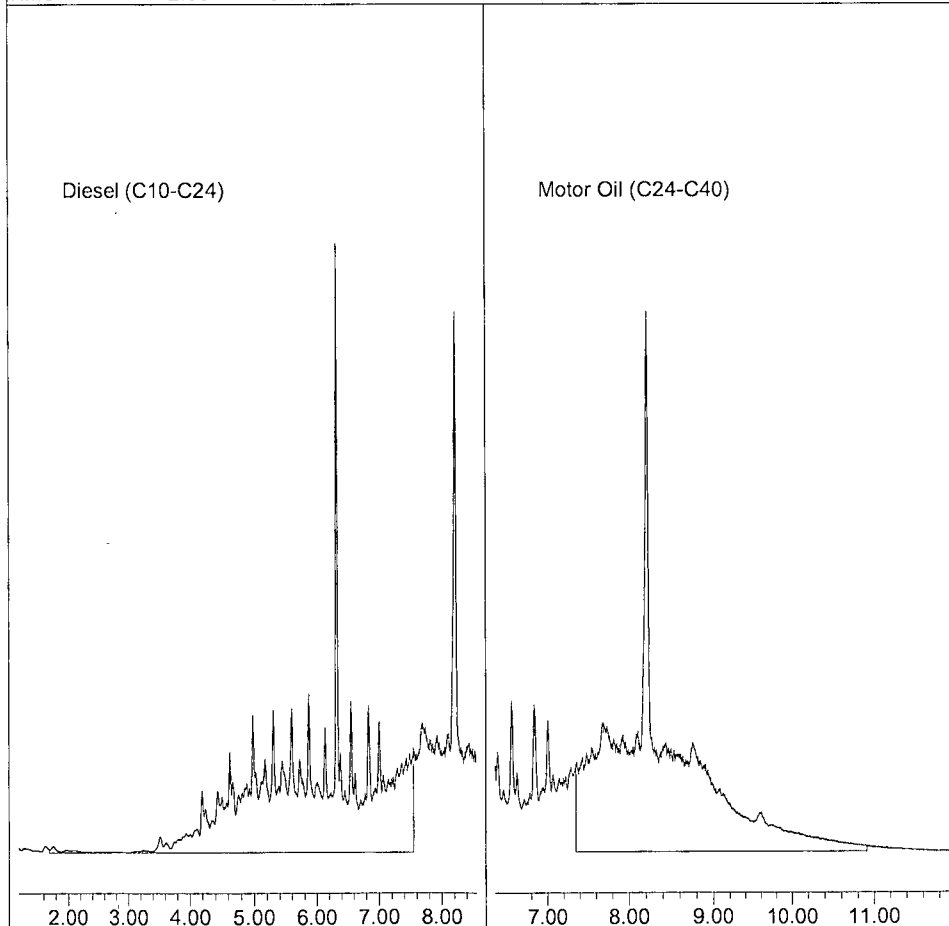
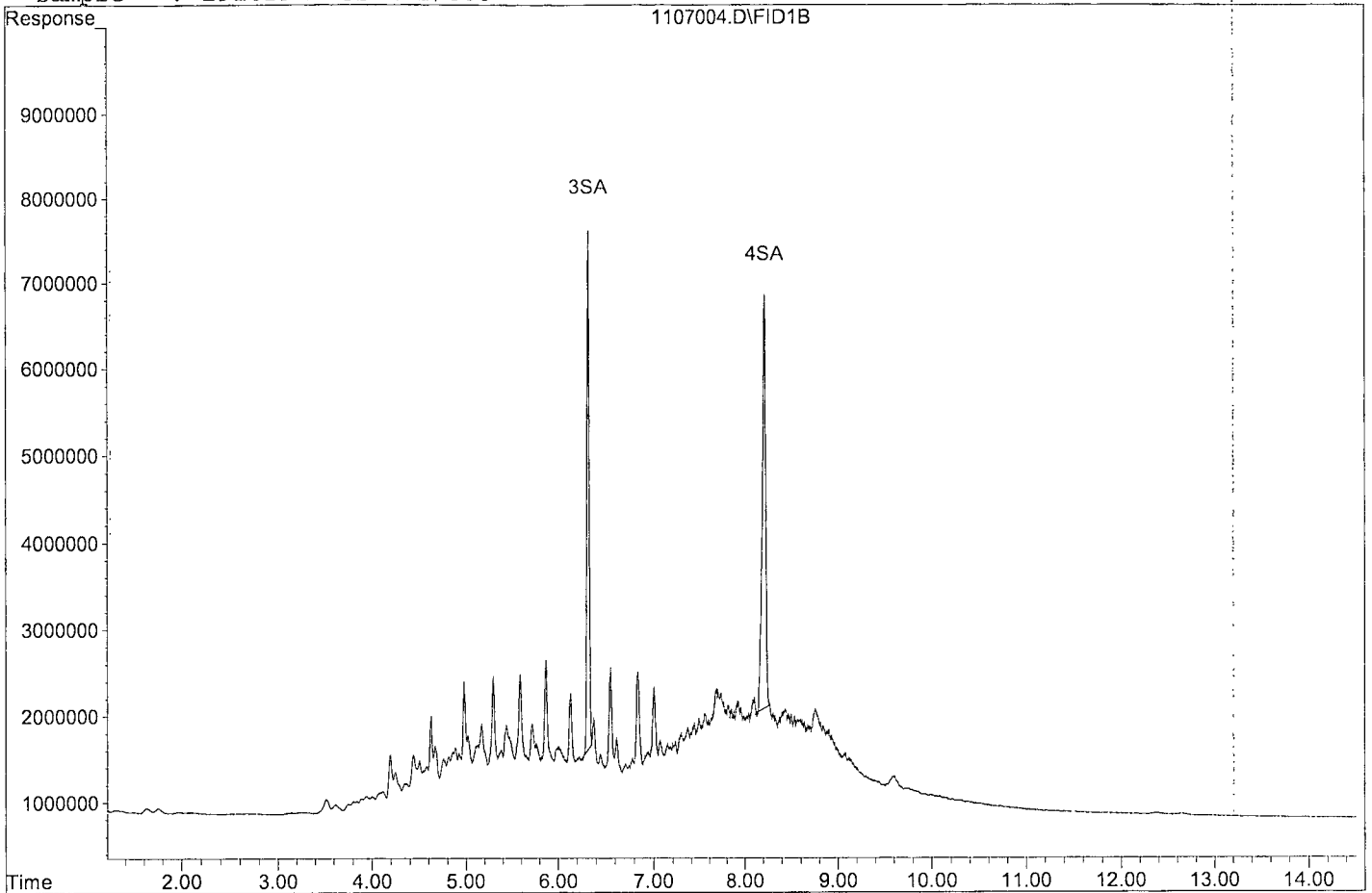
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl (S)	6.32	96807330	65.828 ppb
Surrogate Spike 75.000		Recovery =	87.77%
4) SA Octacosane (S)	8.22	118898355	81.782 ppb
Surrogate Spike 75.000		Recovery =	109.04%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	1621409128	1098.059 ppb
2) HBTM Motor Oil (C24-C40)	9.13	1401073021	1293.718 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107004.D
Sample : 191029A LCS-1 2/800



Data File : G:\APOLLO\DATA\191107\1107005.D Vial: 5
 Acq On : 11-7-19 19:18:42 Operator: BT
 Sample : 191029A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

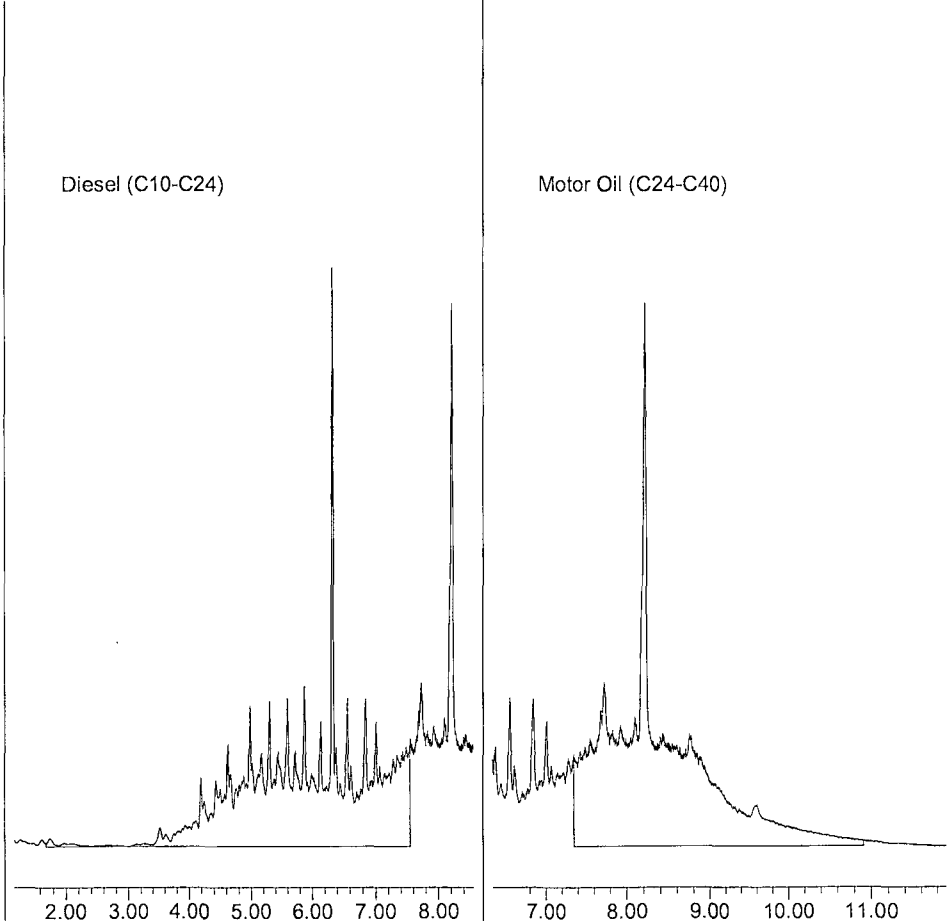
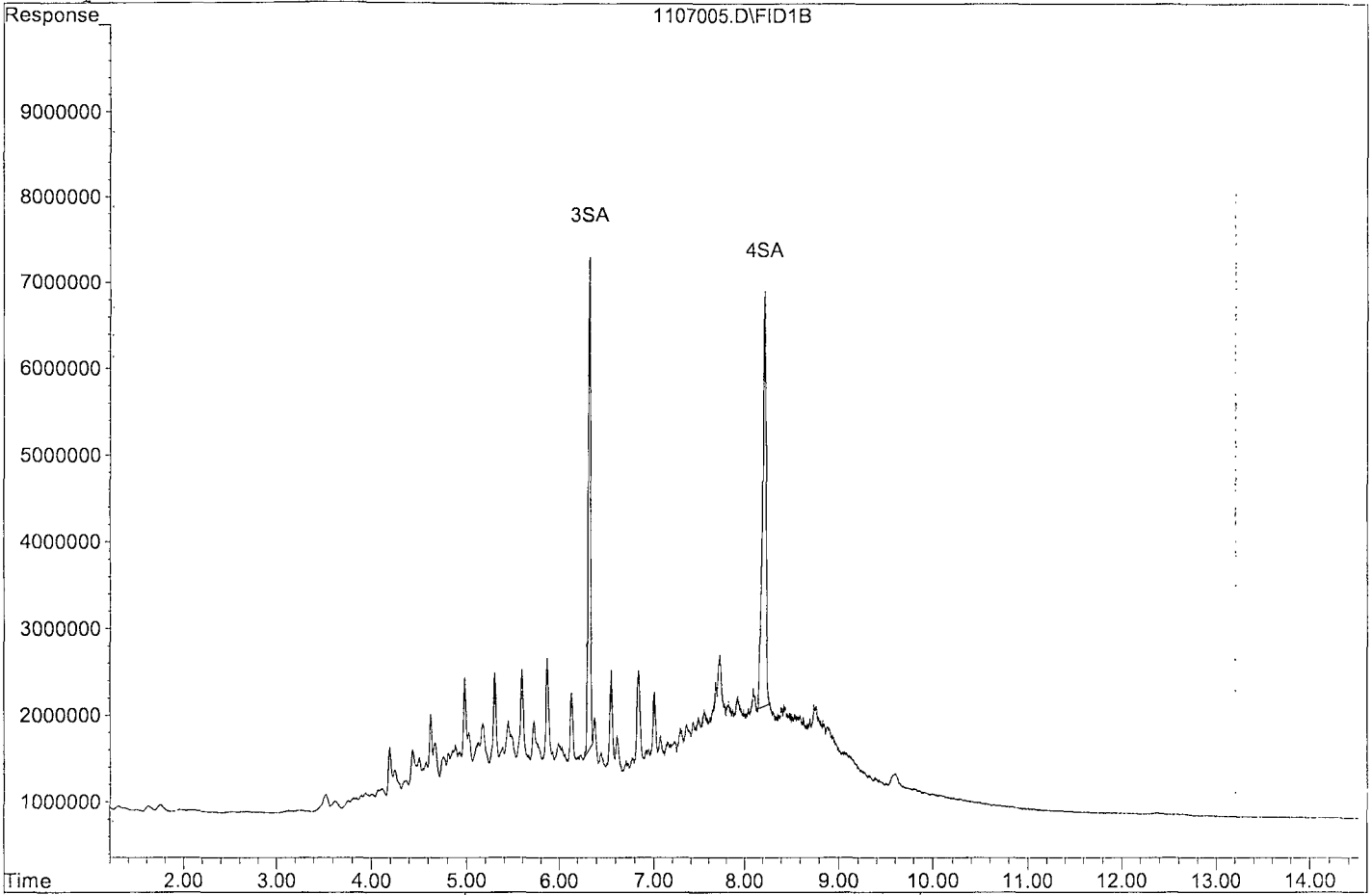
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	97733733	66.458 ppb
Surrogate Spike 75.000		Recovery =	88.61%
4) SA Octacosane(S)	8.22	125621519	86.407 ppb
Surrogate Spike 75.000		Recovery =	115.21%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	1637344358	1108.851 ppb
2) HBTM Motor Oil (C24-C40)	9.13	1428588363	1319.054 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107005.D

Sample : 191029A LCSD-1 2/800



Diesel / Motor Oil Calibration Standard										
Prepared: 09/11/19						Prepared By (Initials): BT				
Expires: 09/11/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40445	09/11/20	02/31/2025	400uL			2000
Motor Oil	Restek	31464	50,000	A0147736-41330	09/11/20	05/31/26	400uL	10mL	MC	2000
THC Surrogate	Phenova	ALO-130161	600	CL13940-41312	09/11/20	07/31/24	1666uL			100

Diesel / Motor Oil Second Source										
Prepared: 01/15/19						Prepared By (Initials): DP				
Expires: 01/15/20										
Methylene Chloride Lot No. 56278										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Diesel / Motor Oil Calibration Curve										
Prepared: 09/11/19						Prepared By (Initials): BT				
Expires: 03/11/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 09/11/19	09/11/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 09/11/19	09/11/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 09/11/19	09/11/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 09/11/19	09/11/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 09/11/19	09/11/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 09/11/19	09/11/20	N/A	100uL	100uL	N/A	2,000

Diesel Spike										
Prepared: 10/28/19						Prepared By (Initials): BT				
Expires: 10/28/20										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	A0149066-41319	10/28/20	06/03/26	N/A	N/A	N/A	50,000

Motor Oil Spike							Prepared: 10/17/19				Prepared By (Initials): BT			
							Expires: 10/17/20							
Initial Standard Information							Final Standard Information							
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)				
Motor Oil Composite	Restek	31464	50,000	A0147736-41329	10/17/20	05/31/26	N/A	N/A	N/A	50,000				

THC Surrogate										
Prepared: 10/29/19						Prepared By (Initials): BT				
Expires: 10/29/20										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	CL13256-49450	10/29/20	02/31/2024	N/A	N/A	N/A	600

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	191029A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 10/28/19 10/28/20		Surrogate ID 1	THC Surrogate 10/29/19 10/29/20			
Spiked ID 2	Motor Oil Spike 10/17/19 10/17/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/29/19 12:35			
Spiked ID 8			Ext. End Time:	10/31/19 14:25			
			GC Requires Extract By:				
			pH1		Water Bath Temp 1 °C	NA °C	
			pH2		Water Bath Temp 2 °C		
			pH3		Water Bath Temp 3 °C		

Spiked By: DL

Date 10/29/19

Witnessed By: YL

Date 10/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191029A Blk				0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
2 191029A LCS-1		0.020	1,2	0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
3 191029A LCSD-1		0.020	1,2	0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
4 BA01775	BA01775W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
5 BA01777	BA01777W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
6 BA01779	BA01779W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
7 BA01781	BA01781W13			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
8 BA01782	BA01782W13			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
9 BA01784	BA01784W15			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
10 BA01829	BA01829W12			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					
11 BA01831	BA01831W15			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					
12 BA01833	BA01833W15			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					

Solvent and Lot#	
1+1 HCL	.6/15/19
PH Strips	.HC863463
Dichloromethane (DCM)	.59130
Filter Paper	.400171
B. Sodium Sulfate	.2019020631
Silica Gel (*)	

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

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

Modified	10/29/19 10:58:47 AM
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Reviewed By: _____ Date _____

Injection Log

Directory: G:\APOLLO\DATA\190911\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	911003.D	1	Diesel/Motor Oil - 1 9/11/19	water	9-11-19 13:25:10
2	4	911004.D	1	Diesel/Motor Oil - 2 9/11/19	water	9-11-19 13:45:18
3	5	911005.D	1	Diesel/Motor Oil - 3 9/11/19	water	9-11-19 14:04:58
4	6	911006.D	1	Diesel/Motor Oil - 4 9/11/19	water	9-11-19 14:25:14
5	7	911007.D	1	Diesel/Motor Oil - 5 9/11/19	water	9-11-19 14:45:29
6	8	911008.D	1	Diesel/Motor Oil - 6 9/11/19	water	9-11-19 15:05:37
7	9	911009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	9-11-19 15:25:51

Injection Log

Directory: G:\APOLLO\DATA\191107\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1107002.D	1	Diesel Motor Oil CCV 10/21/19	water	11-7-19 18:16:59
2	3	1107003.D	2.5	191029A BLK 2/800	water	11-7-19 18:37:30
3	4	1107004.D	2.5	191029A LCS-1 2/800	water	11-7-19 18:58:07
4	5	1107005.D	2.5	191029A LCSD-1 2/800	water	11-7-19 19:18:42
5	6	1107006.D	2.5	BA01775W12 2/800	water	11-7-19 19:39:16
6	7	1107007.D	2.5	BA01777W12 2/800	water	11-7-19 19:59:45
7	8	1107008.D	2.5	BA01779W12 2/800	water	11-7-19 20:20:13
8	9	1107009.D	2.5	BA01781W13 2/80	water	11-7-19 20:40:38
9	10	1107010.D	2.5	BA01782W13 2/800	water	11-7-19 21:01:01
10	11	1107011.D	2.5	BA01784W15 2/800	water	11-7-19 21:21:16
11	19	1107019.D	1	Diesel Motor Oil CCV 10/21/19	water	11-8-19 0:00:37

ORGANICS
Calibration Data

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/28/19
Instrument: Linus

Initials: MA/CP

1028L005.D 1028L006.D 1028L007.D 1028L008.D 1028L004.D 1028L009.D 1028L010.D 1028L011.D

	Compound	0.1	0.2	0.5	1	5	20	50	100			Avg	%RSD	Type	r ²	Q	MRF
1	I Naphthalene-D8(IS)																
2	S Surrogate Recovery (NBZ)	0.6154	0.4960	0.4602	0.4714	0.4325	0.4265	0.4474	0.4616			0.48	13	S			
3	TM Naphthalene	1.353	1.324	1.228	1.322	1.154	1.233	1.170	1.137			1.2	6.8	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.381	1.311	1.233	1.321	1.228	1.192	1.177	1.148			1.2	6.5	S			
5	TM 2-Methylnaphthalene	0.7871	0.7676	0.7353	0.7876	0.7127	0.7463	0.6996	0.6884			0.74	5.2	TM			0.400
6	TM 1-Methylnaphthalene	0.8729	0.8587	0.7207	0.7851	0.7016	0.7332	0.6925	0.6878			0.76	9.8	TM			
7	I Acenaphthene-D10(IS)																
8	S Surrogate Recovery (FBP)	2.084	2.067	1.863	2.099	1.844	1.830	1.715	1.653			1.9	9.1	S			
9	TM Acenaphthylene	5.495	5.363	5.078	5.658	5.251	5.751	5.010	4.930			5.3	5.7	TM			0.900
10	*TM Acenaphthene	1.708	1.625	1.517	1.618	1.412	1.529	1.338	1.439			1.5	8.1	*TM			0.900
11	TM Fluorene	1.748	1.717	1.628	1.812	1.633	1.776	1.673	1.592			1.7	4.6	TM			0.900
12	I Phenanthrene-D10(IS)																
13	TM Phenanthrene	1.669	1.541	1.498	1.635	1.381	1.470	1.355	1.265			1.5	9.4	TM			0.700
14	TM Anthracene	1.260	1.193	1.201	1.358	1.291	1.363	1.276	1.260			1.3	4.9	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.894	1.787	1.721	1.903	1.860	1.907	1.799	1.683			1.8	4.7	S			
16	*TM Fluoranthene	2.125	1.989	1.963	2.216	2.039	2.159	1.845	1.771			2.0	7.6	*TM			0.600
17	I Chrysene-D12(IS)																
18	TM Pyrene	1.917	1.787	1.752	1.917	1.747	1.808	1.714	1.669			1.8	5.0	TM			0.600
19	S Surrogate Recovery (TPH)	1.035	0.9626	0.9160	0.9919	0.9371	0.9175	0.9804	0.9502			0.96	4.2	S			
20	TM Benz (a) anthracene	1.534	1.359	1.345	1.415	1.416	1.448	1.430	1.415			1.4	4.0	TM			0.800
21	TM Chrysene	1.877	1.680	1.536	1.668	1.444	1.534	1.433	1.409			1.6	10	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	1.476	1.215	1.084	1.244	1.392	1.511	1.583	1.595			1.4	14	TM			0.500
23	I Perylene-D12(IS)																
24	TM Benzo (b) fluoranthene	1.329	1.058	1.106	1.231	1.301	1.421	1.375	1.322			1.3	10	TM			0.700
25	TM Benzo (k) fluoranthene	1.285	1.483	1.360	1.569	1.476	1.628	1.346	1.365			1.4	8.3	TM			0.700
26	*TM Benzo (a) pyrene	1.142	0.9908	0.9637	1.073	1.246	1.377	1.283	1.260			1.2	13	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.207	1.035	0.9842	1.085	1.167	1.279	1.208	1.243			1.2	9.1	TM			0.400
28	TM Benzo (g,h,i) perylene	1.405	1.180	1.137	1.241	1.225	1.358	1.281	1.283			1.3	7.0	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\LINUS\DATA\L191028\1028L004.D
 Acq On : 28 Oct 19 12:26
 Sample : 5 SIM 10/28/19(2)
 Misc :

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:37 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:36:52 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	42509	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17630	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30825	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	35746	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	35057	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	18387	2.26999	ppb	0.00
Spiked Amount 5.000			Recovery =	45.400%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	52219	2.45912	ppb	0.00
Spiked Amount 5.000			Recovery =	49.180%		
8) Surrogate Recovery (FBP)	5.52	172	32516	2.43389	ppb	0.00
Spiked Amount 5.000			Recovery =	48.680%		
15) Fluoranthene-D10 (FRT)	9.37	212	57325	2.55457	ppb	0.00
Spiked Amount 5.000			Recovery =	51.100%		
19) Surrogate Recovery (TPH)	9.86	244	33496	2.43703	ppb	0.00
Spiked Amount 5.000			Recovery =	48.740%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	98104	4.65241	ppb	100
5) 2-Methylnaphthalene	5.08	142	60590	4.81172	ppb	100
6) 1-Methylnaphthalene	5.19	142	59650	4.63689	ppb	100
9) Acenaphthylene	6.11	152	185151	4.93782	ppb	100
10) Acenaphthene	6.30	154	49783	4.63497	ppb	100
11) Fluorene	6.90	166	57596	4.81102	ppb	100
13) Phenanthrene	8.01	178	85147	4.67624	ppb	100
14) Anthracene	8.08	178	79570	5.06096	ppb	100
16) Fluoranthene	9.39	202	125700	5.02216	ppb	100
18) Pyrene	9.64	202	124886	4.88571	ppb	100
20) Benz (a) anthracene	11.09	228	101233	4.98555	ppb	100
21) Chrysene	11.14	228	103205	4.58223	ppb	100
22) Indeno (1,2,3-cd) pyrene	15.00	276	99497	5.01530	ppb	# 100
24) Benzo (b) fluoranthene	12.90	252	91200	5.12901	ppb	100
25) Benzo (k) fluoranthene	12.95	252	103463	5.12718	ppb	100
26) Benzo (a) pyrene	13.43	252	87360	5.33556	ppb	100
27) Dibenz (a,h) anthracene	15.05	278	81789	5.06796	ppb	100
28) Benzo (g,h,i) perylene	15.38	276	85903	4.84757	ppb	100

(#) = qualifier out of range (m) = manual integration
 1028L004.D L1028.M Wed Oct 30 10:46:52 2019

Quantitation Report

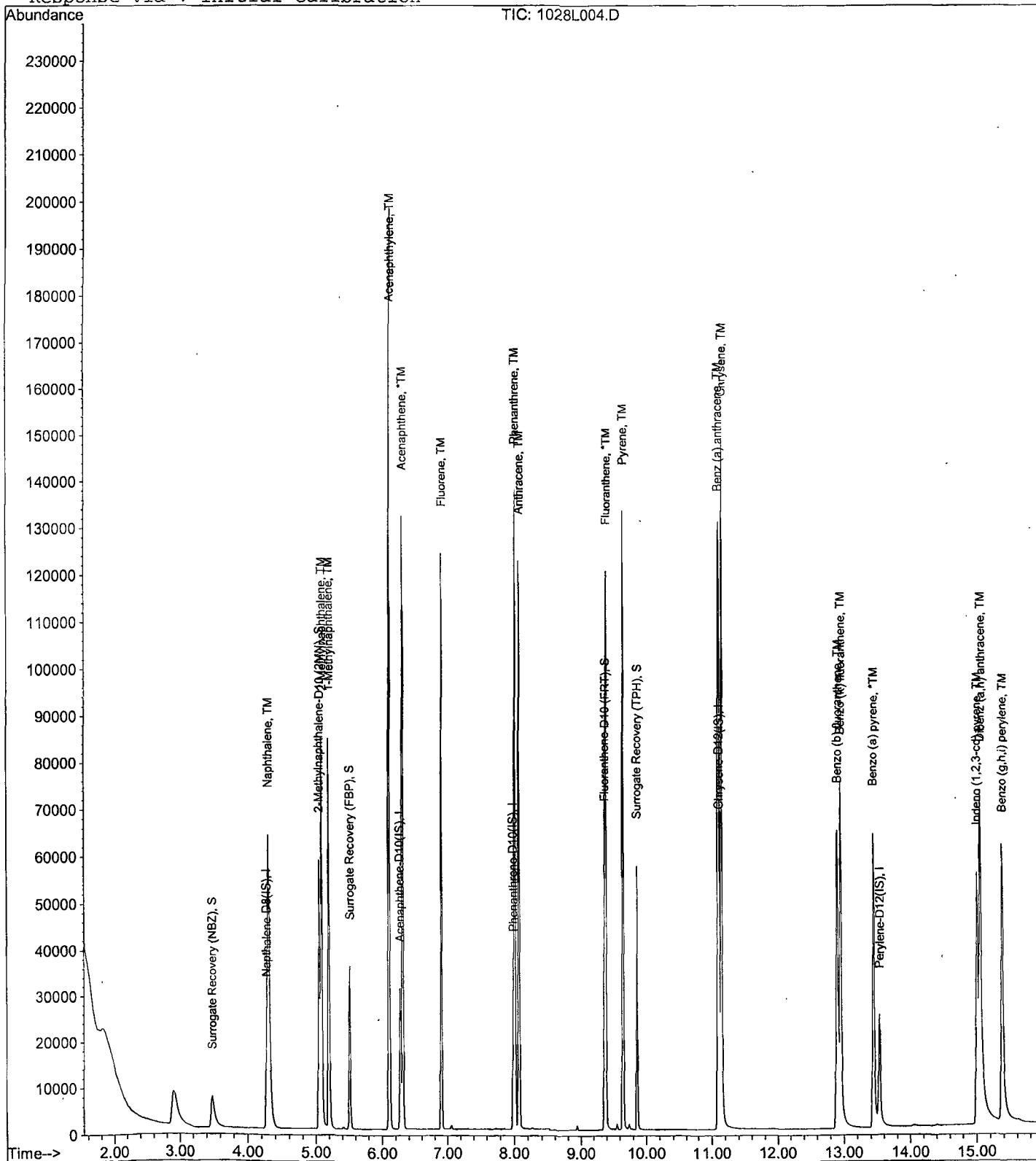
Data File : M:\LINUS\DATA\L191028\1028L004.D
Acq On : 28 Oct 19 12:26
Sample : 5 SIM 10/28/19(2)
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:37 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L005.D
 Acq On : 28 Oct 19 12:51
 Sample : 0.1 SIM 10/28/19
 Misc :

Vial: 5
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	39324	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	16174	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	28360	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	31560	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.52	264	31724	2.50000	ppb	-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	484	0.06459	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.300%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	1086	0.05528	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.100%	
8) Surrogate Recovery (FBP)	5.52	172	674	0.05499	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.100%	
15) Fluoranthene-D10 (FRT)	9.36	212	1074	0.05202	ppb	-0.01
Spiked Amount	5.000		Recovery	=	1.040%	
19) Surrogate Recovery (TFH)	9.86	244	653	0.05381	ppb	0.00
Spiked Amount	5.000		Recovery	=	1.080%	
Target Compounds						
3) Naphthalene	4.30	128	2128	0.10909	ppb	99
5) 2-Methylnaphthalene	5.08	142	1238	0.10628	ppb	99
6) 1-Methylnaphthalene	5.19	142	1373	0.11537	ppb	95
9) Acenaphthylene	6.11	152	3555	0.10334	ppb	99
10) Acenaphthene	6.30	154	1105	0.11214	ppb	95
11) Fluorene	6.90	166	1131	0.10298	ppb	98
13) Phenanthrene	8.02	178	1893	0.11300	ppb	98
14) Anthracene	8.08	178	1429	0.09879	ppb	99
16) Fluoranthene	9.38	202	2411	0.10470	ppb	# 85
18) Pyrene	9.64	202	2420	0.10723	ppb	94
20) Benz (a) anthracene	11.09	228	1936	0.10799	ppb	99
21) Chrysene	11.14	228	2369	0.11913	ppb	96
22) Indeno (1,2,3-cd) pyrene	15.00	276	1863	0.10636	ppb	# 93
24) Benzo (b) fluoranthene	12.89	252	1687	0.10484	ppb	98
25) Benzo (k) fluoranthene	12.95	252	1630	0.08926	ppb	96
26) Benzo (a) pyrene	13.43	252	1449	0.09780	ppb	96
27) Dibenz (a,h) anthracene	15.04	278	1531	0.10483	ppb	# 91
28) Benzo (g,h,i) perylene	15.37	276	1783	0.11119	ppb	99

(#) = qualifier out of range (m) = manual integration
 1028L005.D L1028.M Wed Oct 30 10:46:58 2019

Quantitation Report

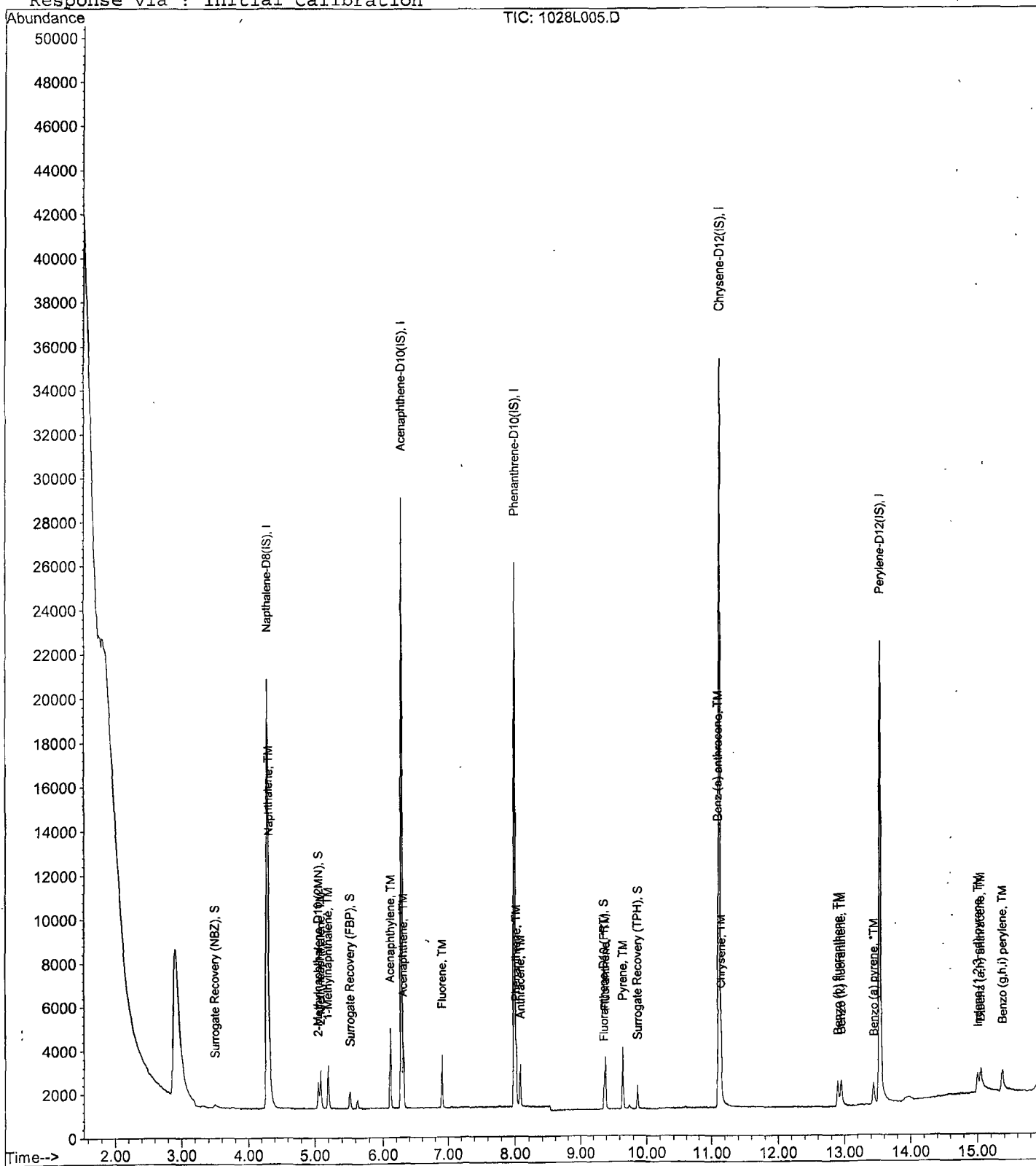
Data File : M:\LINUS\DATA\L191028\1028L005.D
Acq On : 28 Oct 19 12:51
Sample : 0.1 SIM 10/28/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L006.D
 Acq On : 28 Oct 19 13:13
 Sample : 0.2 SIM 10/28/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	38562	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	15986	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	28375	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	31295	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.52	264	30972	2.50000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	765	0.10411	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.080%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	2022	0.10497	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.100%	
8) Surrogate Recovery (FBP)	5.52	172	1322	0.10913	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.180%	
15) Fluoranthene-D10 (FRT)	9.36	212	2028	0.09818	ppb	-0.01
Spiked Amount	5.000		Recovery	=	1.960%	
19) Surrogate Recovery (TPH)	9.86	244	1205	0.10014	ppb	0.00
Spiked Amount	5.000		Recovery	=	2.000%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	4084	0.21350	ppb	99
5) 2-Methylnaphthalene	5.08	142	2368	0.20730	ppb	97
6) 1-Methylnaphthalene	5.19	142	2649	0.22700	ppb	98
9) Acenaphthylene	6.11	152	6859	0.20174	ppb	99
10) Acenaphthene	6.30	154	2078	0.21337	ppb	99
11) Fluorene	6.90	166	2196	0.20230	ppb	97
13) Phenanthrene	8.01	178	3498	0.20870	ppb	99
14) Anthracene	8.08	178	2709	0.18718	ppb	100
16) Fluoranthene	9.38	202	4516	0.19601	ppb	# 82
18) Pyrene	9.64	202	4473	0.19988	ppb	94
20) Benz (a) anthracene	11.09	228	3402	0.19137	ppb	98
21) Chrysene	11.14	228	4205	0.21325	ppb	96
22) Indeno (1,2,3-cd) pyrene	15.00	276	3043	0.17520	ppb	# 80
24) Benzo (b) fluoranthene	12.89	252	2622	0.16691	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	3675	0.20614	ppb	97
26) Benzo (a) pyrene	13.43	252	2455	0.16972	ppb	# 93
27) Dibenz (a,h) anthracene	15.04	278	2564	0.17983	ppb	95
28) Benzo (g,h,i) perylene	15.37	276	2923	0.18670	ppb	93

(#) = qualifier out of range (m) = manual integration
 1028L006.D L1028.M Wed Oct 30 10:47:03 2019

Quantitation Report

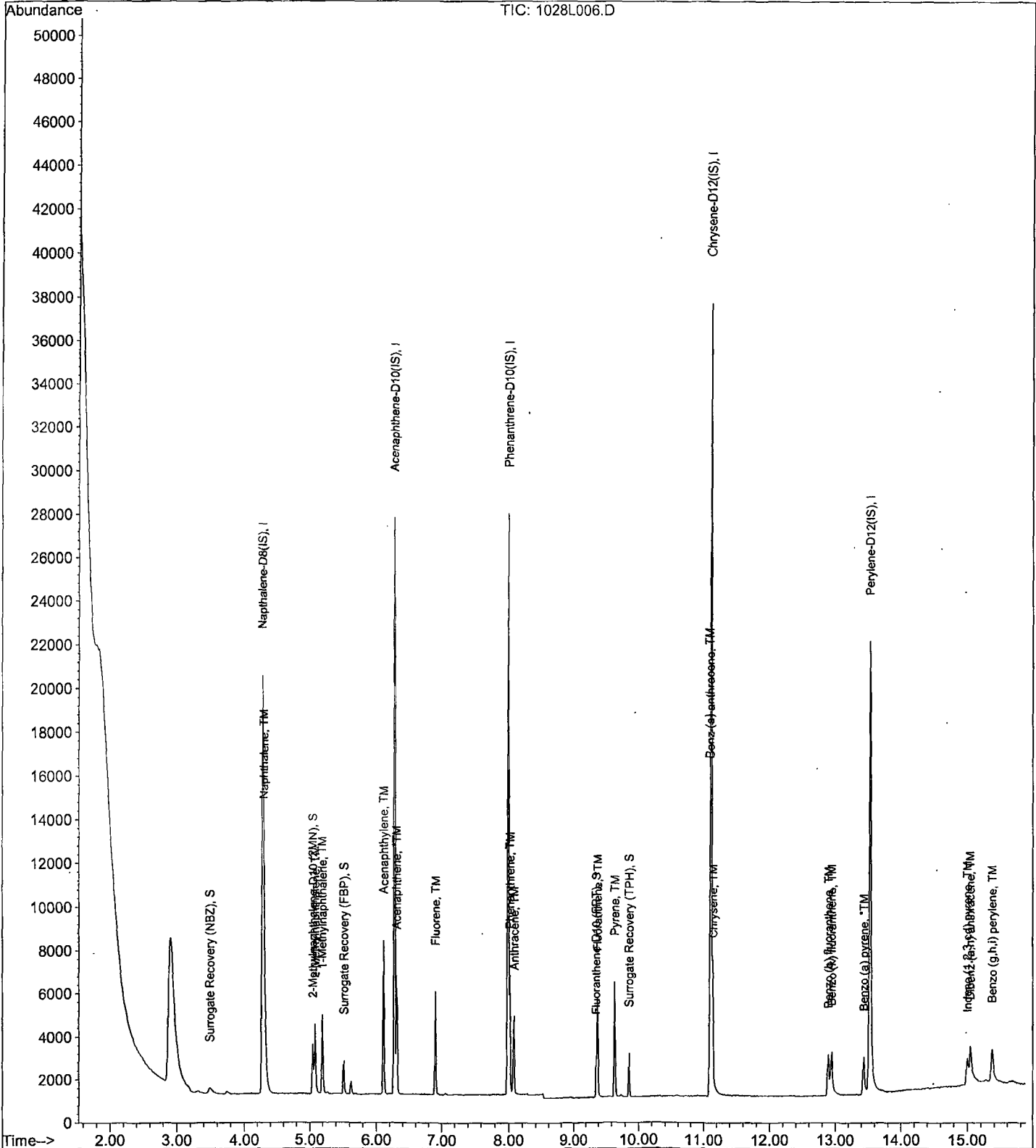
Data File : M:\LINUS\DATA\L191028\1028L006.D
 Acq On : 28 Oct 19 13:13
 Sample : 0.2 SIM 10/28/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L007.D
 Acq On : 28 Oct 19 13:35
 Sample : 0.5 SIM 10/28/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	37004	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.28	164	15527	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	27459	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	30862	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	29964	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	1703	0.24152	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.840%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	4562	0.24680	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.940%	
8) Surrogate Recovery (FBP)	5.52	172	2893	0.24588	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.920%	
15) Fluoranthene-D10 (FRT)	9.37	212	4727	0.23647	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.720%	
19) Surrogate Recovery (TPH)	9.86	244	2827	0.23823	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.760%	
Target Compounds						
						Qvalue
3) Naphthalene	4.30	128	9091	0.49526	ppb	99
5) 2-Methylnaphthalene	5.08	142	5442	0.49647	ppb	100
6) 1-Methylnaphthalene	5.19	142	5334	0.47632	ppb	96
9) Acenaphthylene	6.11	152	15769	0.47751	ppb	100
10) Acenaphthene	6.30	154	4710	0.49791	ppb	98
11) Fluorene	6.90	166	5056	0.47953	ppb	98
13) Phenanthrene	8.02	178	8228	0.50727	ppb	98
14) Anthracene	8.08	178	6595	0.47089	ppb	99
16) Fluoranthene	9.39	202	10783	0.48363	ppb	98
18) Pyrene	9.64	202	10814	0.49001	ppb	96
20) Benz (a) anthracene	11.09	228	8304	0.47368	ppb	99
21) Chrysene	11.14	228	9479	0.48746	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.00	276	6693	0.39076	ppb	# 90
24) Benzo (b) fluoranthene	12.89	252	6629	0.43618	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	8149	0.47247	ppb	97
26) Benzo (a) pyrene	13.44	252	5775	0.41266	ppb	95
27) Dibenz (a,h) anthracene	15.04	278	5898	0.42758	ppb	# 89
28) Benzo (g,h,i) perylene	15.37	276	6815	0.44994	ppb	95

(#) = qualifier out of range (m) = manual integration
 1028L007.D L1028.M Wed Oct 30 10:47:09 2019

Quantitation Report

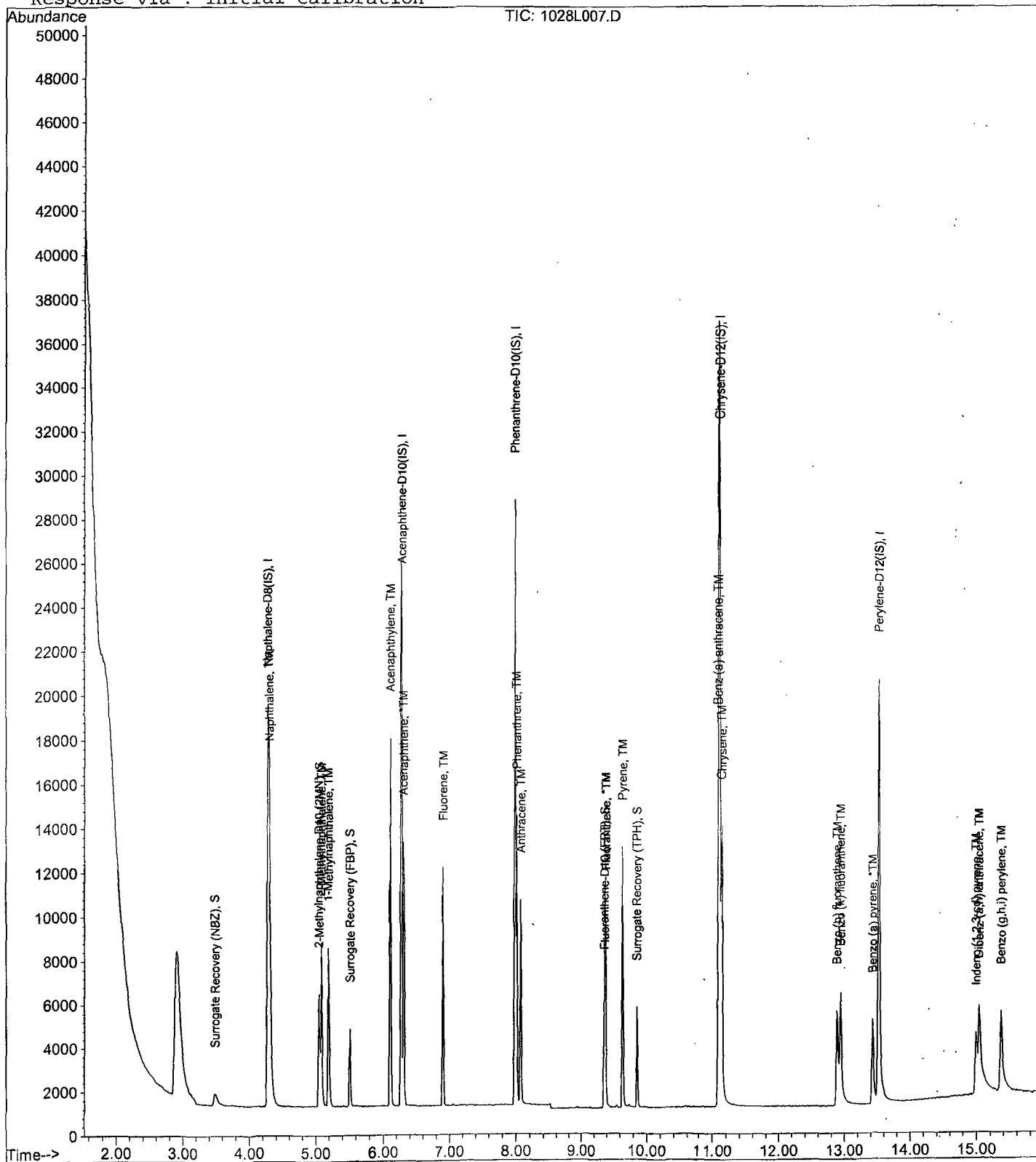
Data File : M:\LINUS\DATA\L191028\1028L007.D
 Acq On : 28 Oct 19 13:35
 Sample : 0.5 SIM 10/28/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L008.D
 Acq On : 28 Oct 19 13:57
 Sample : 1 SIM 10/28/19
 Misc :

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Naphthalene-D8 (IS)	4.29	136	32025	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.28	164	13099	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	23028	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	26425	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	25032	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	3019	0.49473	ppb	0.00
Spiked Amount	5.000		Recovery	=	9.900%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	8459	0.52876	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.580%	
8) Surrogate Recovery (FBP)	5.52	172	5500	0.55409	ppb	0.00
Spiked Amount	5.000		Recovery	=	11.080%	
15) Fluoranthene-D10 (FRT)	9.37	212	8766	0.52290	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.460%	
19) Surrogate Recovery (TPH)	9.86	244	5242	0.51591	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.320%	
Target Compounds						Qvalue
3) Naphthalene	4.30	128	16930	1.06571	ppb	100
5) 2-Methylnaphthalene	5.08	142	10089	1.06351	ppb	99
6) 1-Methylnaphthalene	5.19	142	10057	1.03771	ppb	97
9) Acenaphthylene	6.11	152	29648	1.06419	ppb	99
10) Acenaphthene	6.31	154	8477	1.06224	ppb	88
11) Fluorene	6.90	166	9496	1.06758	ppb	97
13) Phenanthrene	8.01	178	15064	1.10743	ppb	100
14) Anthracene	8.08	178	12506	1.06475	ppb	100
16) Fluoranthene	9.39	202	20409	1.09150	ppb	100
18) Pyrene	9.64	202	20263	1.07233	ppb	98
20) Benz (a) anthracene	11.10	228	14953	0.99617	ppb	97
21) Chrysene	11.14	228	17636	1.05923	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.00	276	13150	0.89665	ppb	# 94
24) Benzo (b) fluoranthene	12.90	252	12330	0.97114	ppb	99
25) Benzo (k) fluoranthene	12.95	252	15715	1.09065	ppb	99
26) Benzo (a) pyrene	13.43	252	10748	0.91934	ppb	99
27) Dibenz (a,h) anthracene	15.05	278	10865	0.94286	ppb	98
28) Benzo (g,h,i) perylene	15.37	276	12422	0.98172	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 1028L008.D L1028.M Wed Oct 30 10:47:14 2019

Quantitation Report

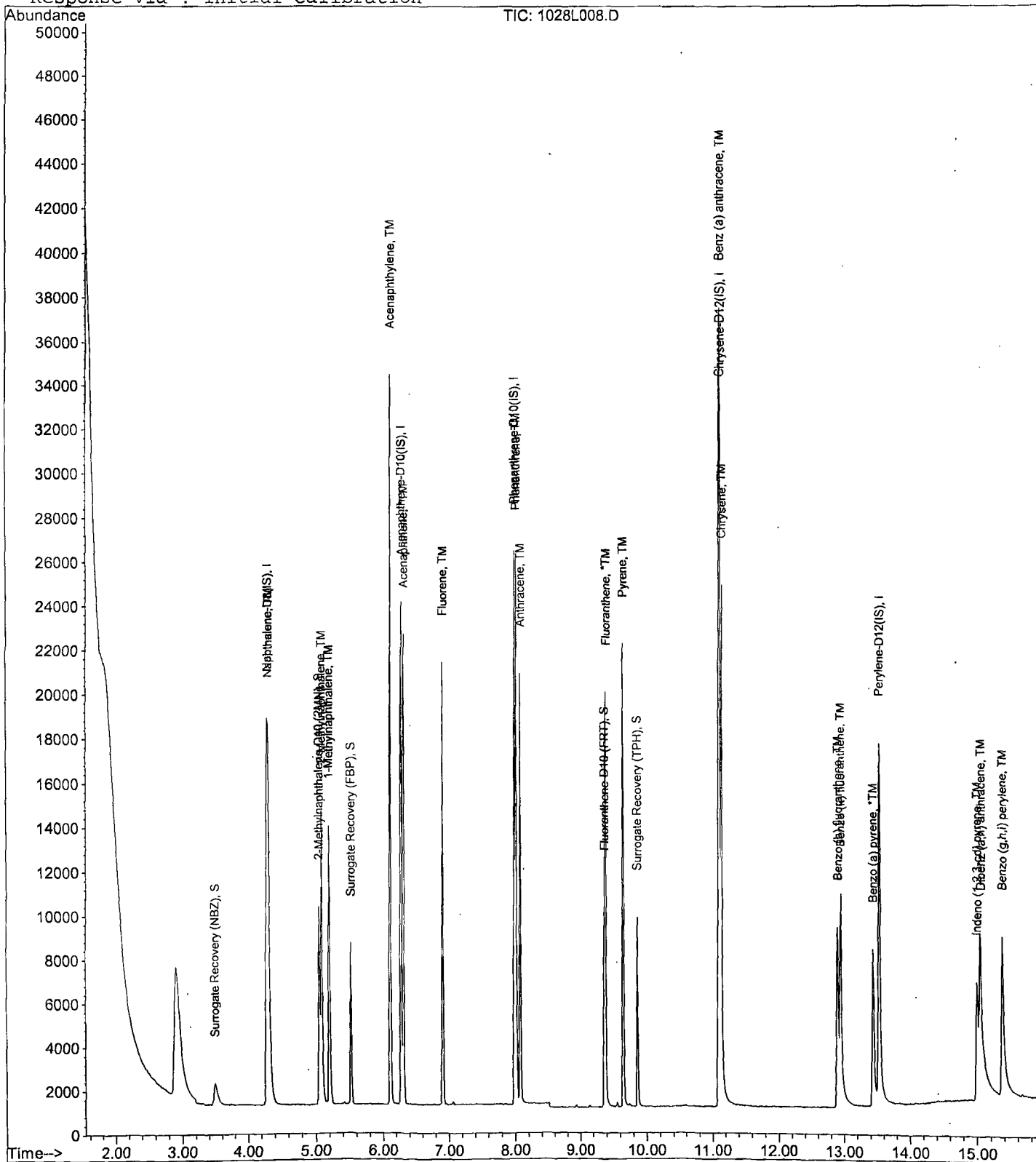
Data File : M:\LINUS\DATA\L191028\1028L008.D
 Acq On : 28 Oct 19 13:57
 Sample : 1 SIM 10/28/19
 Misc :

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L009.D
 Acq On : 28 Oct 19 14:19
 Sample : 20 SIM 10/28/19
 Misc :

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.29	136	32869	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	13416	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	23677	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.11	240	28661	2.50000	ppb	0.00
23) Perylene-D12(IS)	13.53	264	27623	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	56078	8.95364	ppb	0.00
Spiked Amount	5.000		Recovery	=	179.080%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	156708	9.54415	ppb	0.00
Spiked Amount	5.000		Recovery	=	190.880%	
8) Surrogate Recovery (FBP)	5.52	172	98204	9.65967	ppb	0.00
Spiked Amount	5.000		Recovery	=	193.200%	
15) Fluoranthene-D10 (FRT)	9.37	212	180565	10.47571	ppb	0.00
Spiked Amount	5.000		Recovery	=	209.520%	
19) Surrogate Recovery (TPH)	9.86	244	105182	9.54434	ppb	0.00
Spiked Amount	5.000		Recovery	=	190.880%	
Target Compounds						
3) Naphthalene	4.31	128	324267	19.88786	ppb	99
5) 2-Methylnaphthalene	5.08	142	196246	20.15556	ppb	98
6) 1-Methylnaphthalene	5.19	142	192793	19.38213	ppb	96
9) Acenaphthylene	6.11	152	617256	21.63237	ppb	99
10) Acenaphthene	6.31	154	164055	20.07171	ppb	88
11) Fluorene	6.90	166	190667	20.92904	ppb	96
13) Phenanthrene	8.01	178	278373	19.90356	ppb	99
14) Anthracene	8.08	178	258173	21.37818	ppb	98
16) Fluoranthene	9.39	202	408909	21.26956	ppb	# 88
18) Pyrene	9.65	202	414663	20.23232	ppb	# 88
20) Benz (a) anthracene	11.10	228	331965	20.39010	ppb	99
21) Chrysene	11.15	228	351823	19.48211	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.02	276	346411	21.77783	ppb	# 80
24) Benzo (b) fluoranthene	12.91	252	314014	22.41257	ppb	98
25) Benzo (k) fluoranthene	12.97	252	359815	22.62958	ppb	# 94
26) Benzo (a) pyrene	13.45	252	304231	23.58169	ppb	98
27) Dibenz (a,h) anthracene	15.07	278	282549	22.21959	ppb	96
28) Benzo (g,h,i) perylene	15.39	276	300183	21.49840	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1028L009.D L1028.M Wed Oct 30 10:47:19 2019

Quantitation Report

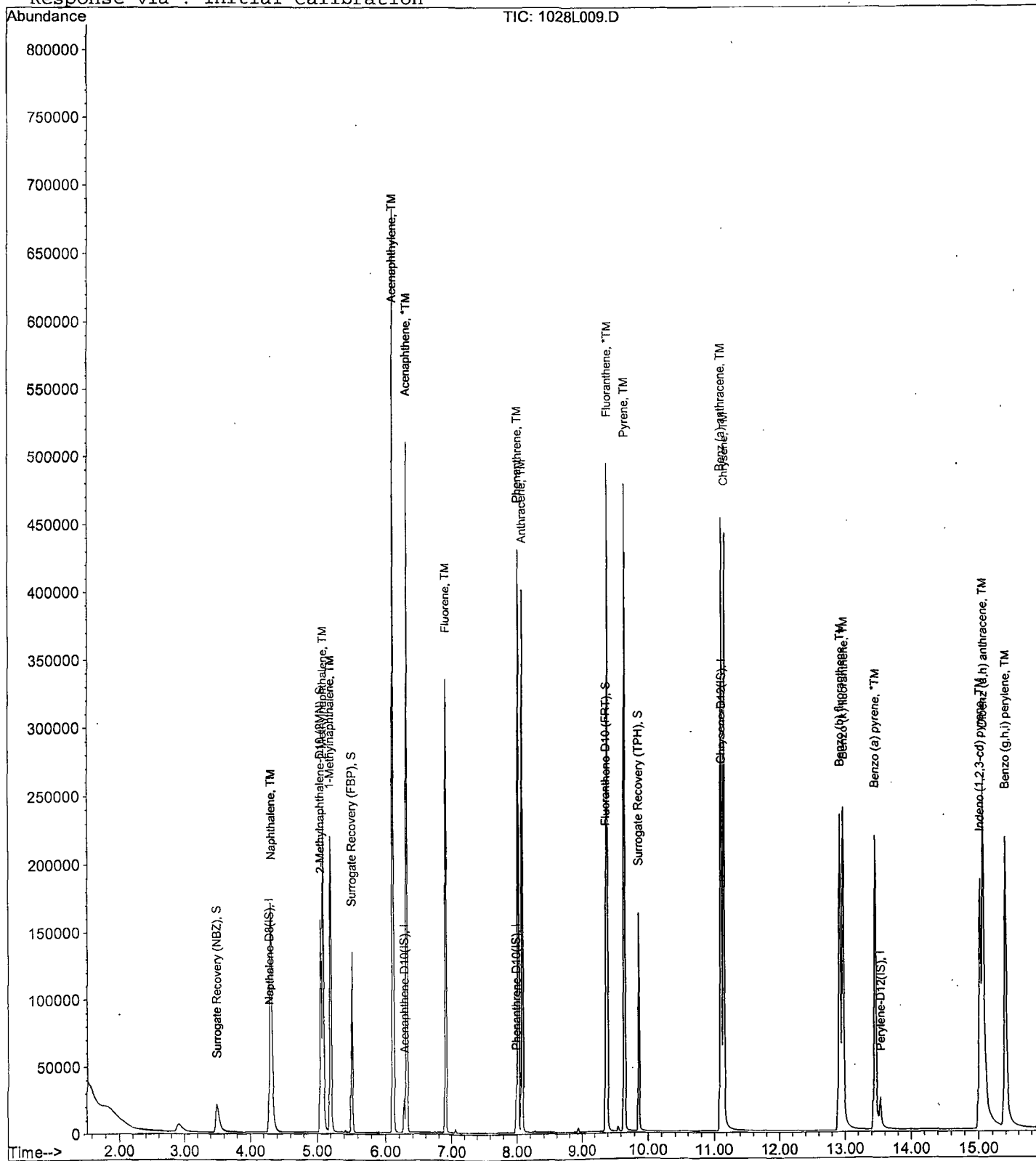
Data File : M:\LINUS\DATA\L191028\1028L009.D
Acq On : 28 Oct 19 14:19
Sample : 20 SIM 10/28/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L010.D
 Acq On : 28 Oct 19 14:42
 Sample : 50 SIM 10/28/19
 Misc :

Vial: 10
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:03 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.29	136	36782	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	15743	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	27764	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.12	240	31502	2.50000	ppb	0.01
23) Perylene-D12(IS)	13.54	264	33834	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	164569	23.48044	ppb	0.00
Spiked Amount	5.000		Recovery	=	469.600%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	432823	23.55633	ppb	0.00
Spiked Amount	5.000		Recovery	=	471.120%	
8) Surrogate Recovery (FBP)	5.52	172	269987	22.63141	ppb	0.00
Spiked Amount	5.000		Recovery	=	452.620%	
15) Fluoranthene-D10 (FRT)	9.38	212	499535	24.71499	ppb	0.01
Spiked Amount	5.000		Recovery	=	494.300%	
19) Surrogate Recovery (TPH)	9.87	244	308848	25.49780	ppb	0.01
Spiked Amount	5.000		Recovery	=	509.960%	
Target Compounds						
3) Naphthalene	4.31	128	860769	47.17621	ppb	99
5) 2-Methylnaphthalene	5.10	142	514626	47.23207	ppb	96
6) 1-Methylnaphthalene	5.20	142	509460	45.76902	ppb	97
9) Acenaphthylene	6.11	152	1577589	47.11599	ppb	99
10) Acenaphthene	6.31	154	421153	43.91071	ppb	92
11) Fluorene	6.92	166	526911	49.28860	ppb	97
13) Phenanthrene	8.03	178	752594	45.88906	ppb	99
14) Anthracene	8.09	178	708446	50.02779	ppb	99
16) Fluoranthene	9.40	202	1024241	45.43376	ppb	# 91
18) Pyrene	9.66	202	1079871	47.93751	ppb	# 84
20) Benz (a) anthracene	11.11	228	900763	50.33740	ppb	98
21) Chrysene	11.16	228	902898	45.48872	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.04	276	997292	57.04250	ppb	# 80
24) Benzo (b) fluoranthene	12.92	252	930609	54.22848	ppb	100
25) Benzo (k) fluoranthene	12.99	252	911111	46.78279	ppb	100
26) Benzo (a) pyrene	13.47	252	868154	54.93963	ppb	97
27) Dibenz (a,h) anthracene	15.09	278	817460	52.48391	ppb	97
28) Benzo (g,h,i) perylene	15.42	276	866669	50.67466	ppb	93

(#) = qualifier out of range (m) = manual integration
 1028L010.D L1028.M Wed Oct 30 10:47:25 2019

Quantitation Report

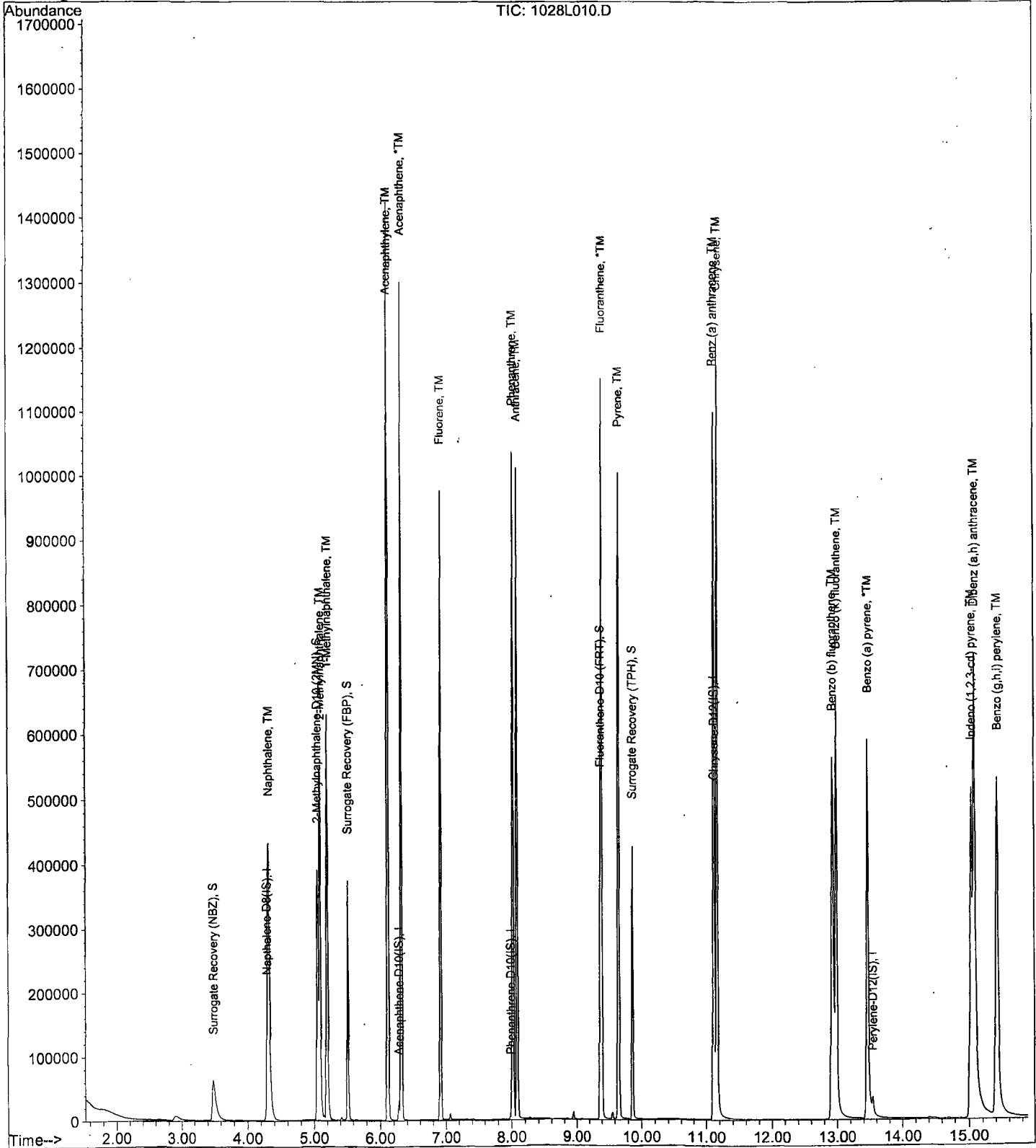
Data File : M:\LINUS\DATA\L191028\1028L010.D
Acq On : 28 Oct 19 14:42
Sample : 50 SIM 10/28/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L011.D
 Acq On : 28 Oct 19 15:04
 Sample : 100 SIM 10/28/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:03 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.29	136	35886	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.28	164	15357	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	27888	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.13	240	31266	2.50000	ppb	0.02
23) Perylene-D12 (IS)	13.54	264	33574	2.50000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	331274	48.44577	ppb	0.00
Spiked Amount	5.000		Recovery	=	968.920%	
4) 2-Methylnaphthalene-D10 (2)	5.06	152	824254	45.97997	ppb	0.01
Spiked Amount	5.000		Recovery	=	919.600%	
8) Surrogate Recovery (FBP)	5.52	172	507607	43.61919	ppb	0.00
Spiked Amount	5.000		Recovery	=	872.380%	
15) Fluoranthene-D10 (FRT)	9.38	212	938946	46.24873	ppb	0.01
Spiked Amount	5.000		Recovery	=	924.980%	
19) Surrogate Recovery (TPH)	9.87	244	594165	49.42319	ppb	0.01
Spiked Amount	5.000		Recovery	=	988.460%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.31	128	1632322	91.69646	ppb	99
5) 2-Methylnaphthalene	5.09	142	988093	92.95084	ppb	96
6) 1-Methylnaphthalene	5.20	142	987228	90.90531	ppb	97
9) Acenaphthylene	6.12	152	3028365	92.71793	ppb	98
10) Acenaphthene	6.33	154	884058	94.49143	ppb	81
11) Fluorene	6.92	166	977828	93.76761	ppb	99
13) Phenanthrene	8.03	178	1410719	85.63545	ppb	98
14) Anthracene	8.10	178	1405385	98.80172	ppb	98
16) Fluoranthene	9.41	202	1975643	87.24682	ppb	# 93
18) Pyrene	9.67	202	2087655	93.37447	ppb	# 79
20) Benz (a) anthracene	11.12	228	1769567	99.63525	ppb	98
21) Chrysene	11.17	228	1761570	89.41920	ppb	# 95
22) Indeno (1,2,3-cd) pyrene	15.08	276	1994441	114.93788	ppb	# 97
24) Benzo (b) fluoranthene	12.95	252	1775337	104.25365	ppb	98
25) Benzo (k) fluoranthene	13.01	252	1833100	94.85304	ppb	98
26) Benzo (a) pyrene	13.49	252	1692412	107.93077	ppb	96
27) Dibenz (a,h) anthracene	15.12	278	1669599	108.02446	ppb	94
28) Benzo (g,h,i) perylene	15.46	276	1722719	101.50847	ppb	96

(#) = qualifier out of range (m) = manual integration
 1028L011.D L1028.M Wed Oct 30 10:47:30 2019

Quantitation Report

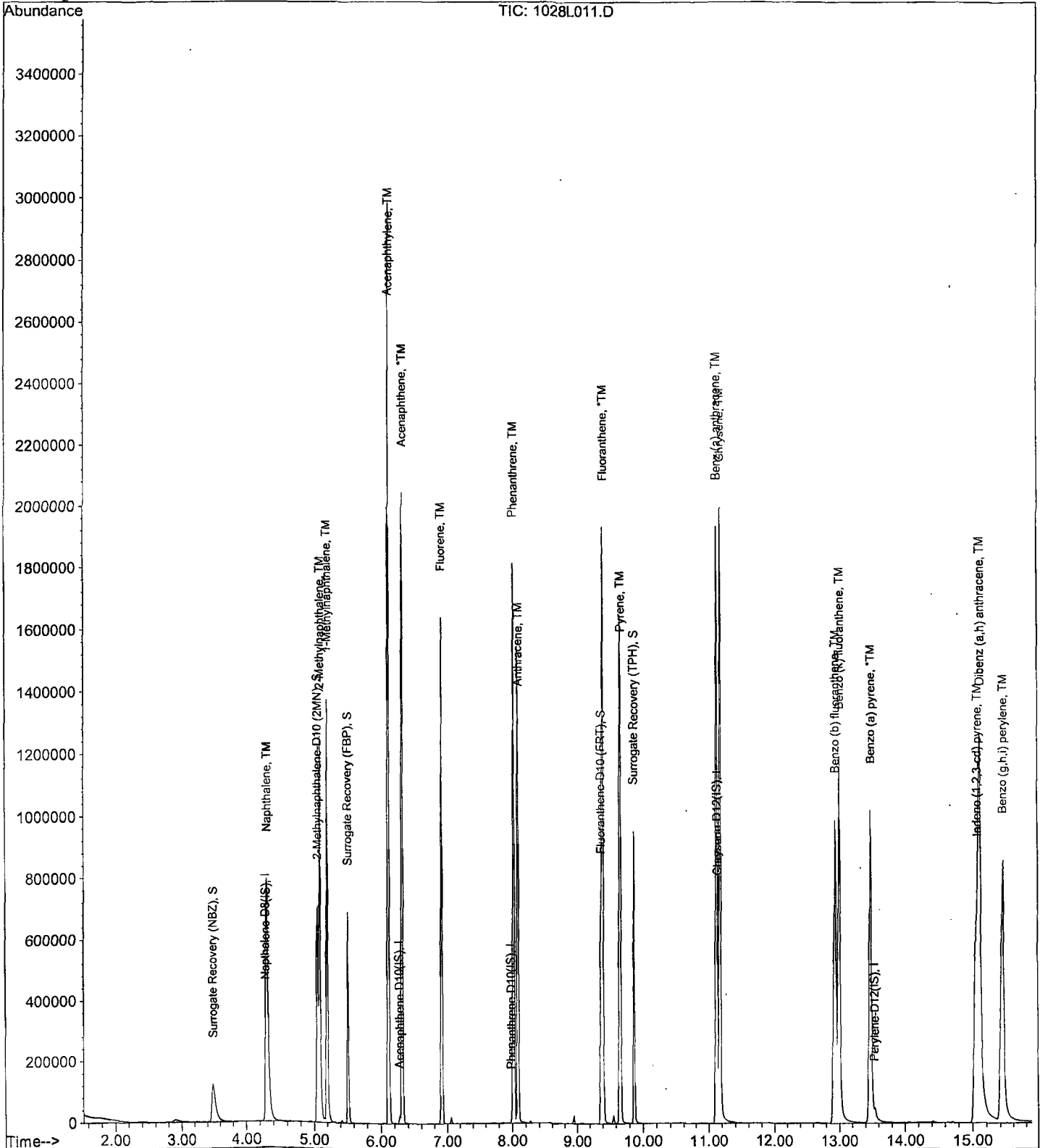
Data File : M:\LINUS\DATA\L191028\1028L011.D
Acq On : 28 Oct 19 15:04
Sample : 100 SIM 10/28/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L012.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.240	1.222	1.4	TM
2	TM	2-Methylnaphthalene	0.7406	0.7386	0.26	TM
3	TM	1-Methylnaphthalene	0.7566	0.7450	1.5	TM
4	TM	Acenaphthylene	5.317	5.695	7.1	TM
5	*TM	Acenaphthene	1.523	1.515	0.52	*TM
6	TM	Fluorene	1.698	1.746	2.9	TM
7	TM	Phenanthrene	1.477	1.538	4.1	TM
8	TM	Anthracene	1.275	1.367	7.2	TM
9	*TM	Fluoranthene	2.013	2.171	7.8	*TM
10	TM	Pyrene	1.789	1.816	1.5	TM
11	TM	Benz (a) anthracene	1.420	1.330	6.4	TM
12	TM	Chrysene	1.573	1.539	2.2	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.387	1.255	9.5	TM
14	TM	Benzo (b) fluoranthene	1.268	1.334	5.2	TM
15	TM	Benzo (k) fluoranthene	1.439	1.585	10	TM
16	*TM	Benzo (a) pyrene	1.167	1.265	8.4	*TM
17	TM	Dibenz (a,h) anthracene	1.151	1.126	2.2	TM
18	TM	Benzo (g,h,i) perylene	1.264	1.235	2.3	TM
19						
20						
21						
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Average

4.5

Data File : M:\LINUS\DATA\L191028\1028L012.D Vial: 12
 Acq On : 28 Oct 19 15:55 Operator: MA
 Sample : SS SIM 10/28/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:44 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.29	136	37041	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.28	164	15072	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	26057	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	32042	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	29024	2.50000	ppb	0.00

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

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	90550	4.92808	ppb	100
5) 2-Methylnaphthalene	5.08	142	54717	4.98678	ppb	97
6) 1-Methylnaphthalene	5.19	142	55190	4.92351	ppb	97
9) Acenaphthylene	6.11	152	171659	5.35498	ppb	99
10) Acenaphthene	6.31	154	45673	4.97401	ppb	89
11) Fluorene	6.90	166	52636	5.14291	ppb	95
13) Phenanthrene	8.01	178	80127	5.20577	ppb	98
14) Anthracene	8.08	178	71254	5.36132	ppb	99
16) Fluoranthene	9.39	202	113116	5.39024	ppb	# 93
18) Pyrene	9.65	202	116362	5.07511	ppb	# 86
20) Benz (a) anthracene	11.10	228	85204	4.68122	ppb	98
21) Chrysene	11.14	228	98596	4.89203	ppb	# 96
22) Indeno (1,2,3-cd) pyrene	15.01	276	80441	4.52347	ppb	88
24) Benzo (b) fluoranthene	12.90	252	77412	5.25853	ppb	99
25) Benzo (k) fluoranthene	12.96	252	92007	5.50721	ppb	99
26) Benzo (a) pyrene	13.45	252	73458	5.42211	ppb	97
27) Dibenz (a,h) anthracene	15.05	278	65335	4.88992	ppb	# 94
28) Benzo (g,h,i) perylene	15.38	276	71685	4.88610	ppb	# 92

(#) = qualifier out of range (m) = manual integration
 1028L012.D L1028.M Wed Oct 30 10:46:00 2019

Quantitation Report

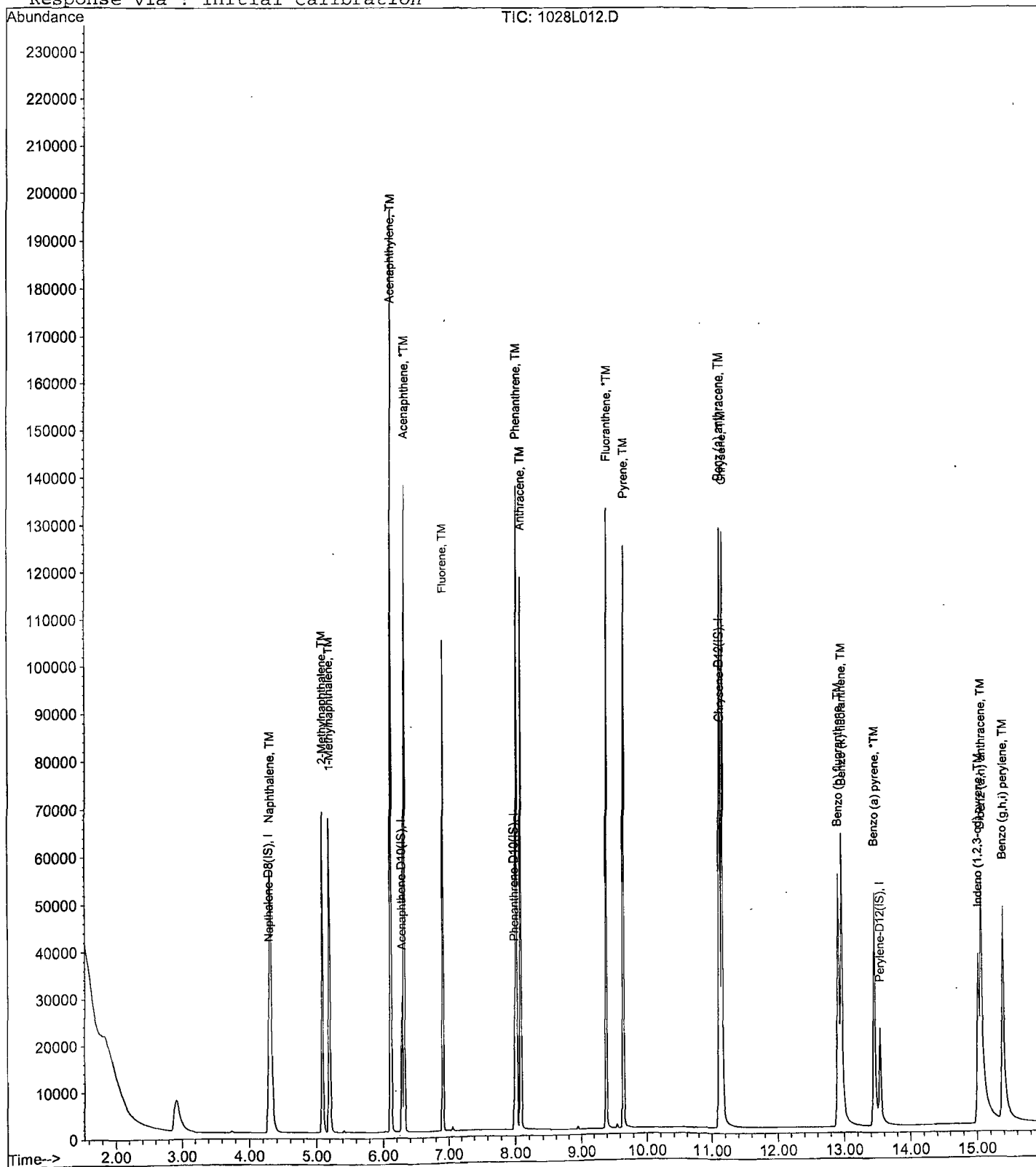
Data File : M:\LINUS\DATA\L191028\1028L012.D
 Acq On : 28 Oct 19 15:55
 Sample : SS SIM 10/28/19
 Misc :

Vial: 12
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:44 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 9:53
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L162.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Naphthalene-D8(IS)	ISTD			I
2	S Surrogate Recovery (NBZ)	0.4764	0.4561	4.3	S
3	TM Naphthalene	1.240	1.220	1.6	TM
4	S 2-Methylnaphthalene-D10 (2MN)	1.249	1.181	5.4	S
5	TM 2-Methylnaphthalene	0.7406	0.7348	0.78	TM
6	TM 1-Methylnaphthalene	0.7566	0.7311	3.4	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBP)	1.894	1.847	2.5	S
9	TM Acenaphthylene	5.317	5.609	5.5	TM
10	*TM Acenaphthene	1.523	1.481	2.8	*TM
11	TM Fluorene	1.698	1.733	2.1	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.477	1.468	0.60	TM
14	TM Anthracene	1.275	1.347	5.6	TM
15	S Fluoranthene-D10 (FRT)	1.819	1.930	6.1	S
16	*TM Fluoranthene	2.013	2.142	6.4	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.789	1.778	0.60	TM
19	S Surrogate Recovery (TPH)	0.9613	0.9666	0.55	S
20	TM Benz (a) anthracene	1.420	1.458	2.7	TM
21	TM Chrysene	1.573	1.504	4.4	TM
22	TM Indeno (1,2,3-cd) pyrene	1.387	1.559	12	TM
23	I Perylene-D12(IS)	ISTD			I
24	TM Benzo (b) fluoranthene	1.268	1.360	7.3	TM
25	TM Benzo (k) fluoranthene	1.439	1.391	3.3	TM
26	*TM Benzo (a) pyrene	1.167	1.258	7.8	*TM
27	TM Dibenz (a,h) anthracene	1.151	1.217	5.8	TM
28	TM Benzo (g,h,i) perylene	1.264	1.250	1.0	TM
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

4.0

Data File : M:\LINUS\DATA\L191028\1028L162.D
 Acq On : 5 Nov 19 9:53
 Sample : 5 SIM 10/28/19 (1)
 Misc :

Vial: 62
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 5 10:20 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	46666	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18912	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	32761	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	40179	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	42489	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	21283	2.39346	ppb	0.00
Spiked Amount	5.000					
Recovery				=	47.860%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	55126	2.36477	ppb	0.00
Spiked Amount	5.000					
Recovery				=	47.300%	
8) Surrogate Recovery (FBP)	5.51	172	34932	2.43749	ppb	-0.01
Spiked Amount	5.000					
Recovery				=	48.740%	
15) Fluoranthene-D10 (FRT)	9.36	212	63220	2.65183	ppb	-0.01
Spiked Amount	5.000					
Recovery				=	53.040%	
19) Surrogate Recovery (TPH)	9.86	244	38836	2.51380	ppb	0.00
Spiked Amount	5.000					
Recovery				=	50.280%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	113903	4.92047	ppb	99
5) 2-Methylnaphthalene	5.08	142	68577	4.96088	ppb	99
6) 1-Methylnaphthalene	5.19	142	68234	4.83167	ppb	99
9) Acenaphthylene	6.10	152	212165	5.27471	ppb	98
10) Acenaphthene	6.30	154	56000	4.86036	ppb	94
11) Fluorene	6.90	166	65560	5.10503	ppb	97
13) Phenanthrene	8.01	178	96183	4.97017	ppb	99
14) Anthracene	8.08	178	88265	5.28224	ppb	99
16) Fluoranthene	9.38	202	140331	5.31870	ppb	# 83
18) Pyrene	9.64	202	142891	4.97004	ppb	93
20) Benz (a) anthracene	11.09	228	117172	5.13385	ppb	99
21) Chrysene	11.14	228	120851	4.78190	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.01	276	125248	5.61676	ppb	# 79
24) Benzo (b) fluoranthene	12.90	252	115600	5.36408	ppb	95
25) Benzo (k) fluoranthene	12.95	252	118227	4.83402	ppb	96
26) Benzo (a) pyrene	13.43	252	106867	5.38832	ppb	100
27) Dibenz (a,h) anthracene	15.05	278	103457	5.28928	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	106265	4.94771	ppb	99

(#) = qualifier out of range (m) = manual integration
 1028L162.D L1028.M Tue Nov 05 10:20:18 2019

Quantitation Report

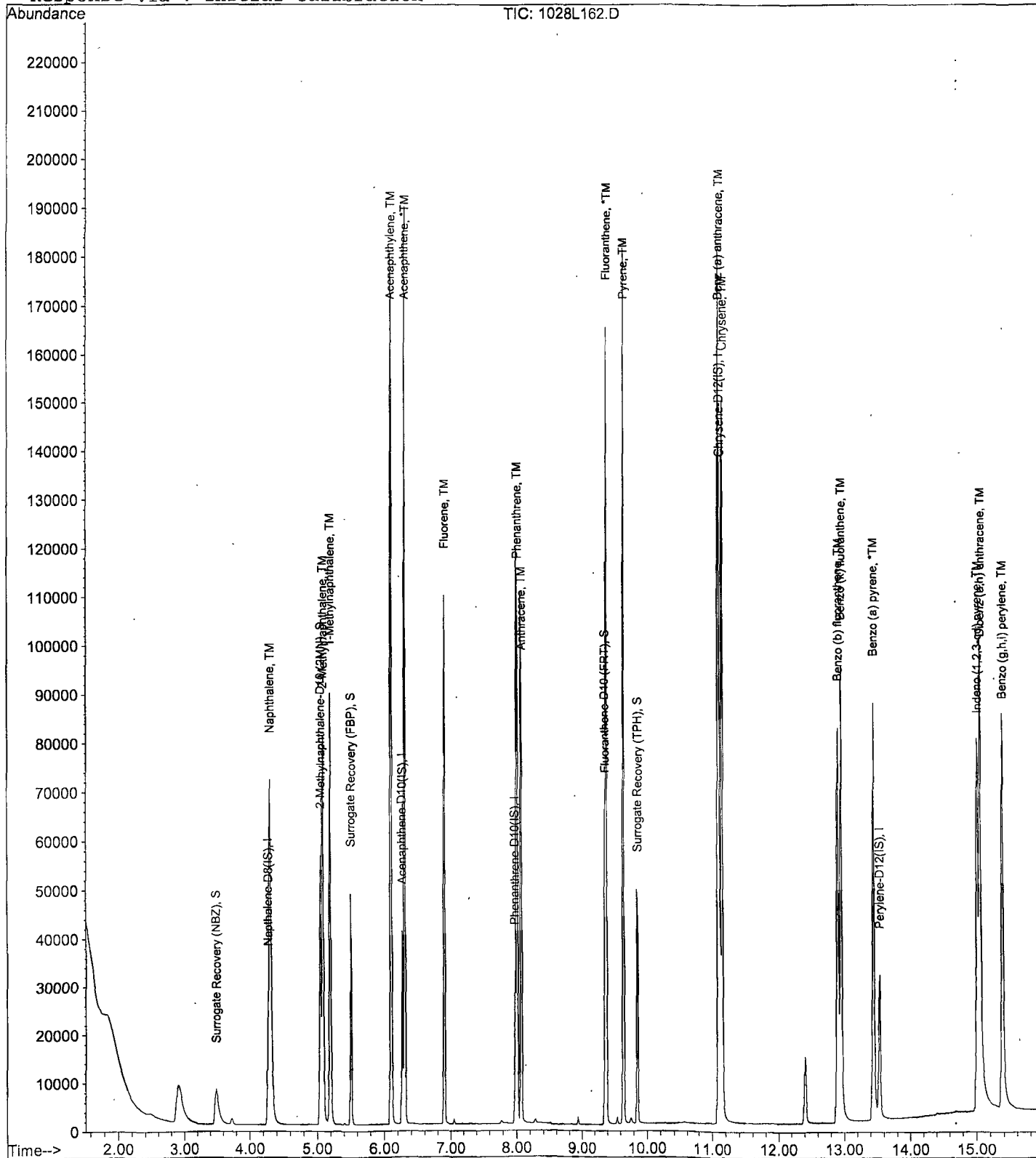
Data File : M:\LINUS\DATA\L191028\1028L162.D
Acq On : 5 Nov 19 9:53
Sample : 5 SIM 10/28/19 (1)
Misc :

Vial: 62
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 5 10:20 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 16:00
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L176.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Napthalene-D8(IS)	ISTD			I
2	S Surrogate Recovery (NBZ)	0.4764	0.4651	2.4	S
3	TM Napthalene	1.240	1.222	1.5	TM
4	S 2-Methylnapthalene-D10 (2MN)	1.249	1.169	6.4	S
5	TM 2-Methylnapthalene	0.7406	0.7374	0.42	TM
6	TM 1-Methylnapthalene	0.7566	0.7301	3.5	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBZ)	1.894	1.838	3.0	S
9	TM Acenaphthylene	5.317	5.687	7.0	TM
10	*TM Acenaphthene	1.523	1.493	2.0	*TM
11	TM Fluorene	1.698	1.756	3.4	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.477	1.457	1.3	TM
14	TM Anthracene	1.275	1.338	5.0	TM
15	S Fluoranthene-D10 (FRT)	1.819	1.898	4.3	S
16	*TM Fluoranthene	2.013	2.139	6.3	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.789	1.775	0.79	TM
19	S Surrogate Recovery (TPH)	0.9613	0.9644	0.33	S
20	TM Benz (a) anthracene	1.420	1.450	2.1	TM
21	TM Chrysene	1.573	1.468	6.6	TM
22	TM Indeno (1,2,3-cd) pyrene	1.387	1.501	8.2	TM
23	I Perylene-D12(IS)	ISTD			I
24	TM Benzo (b) fluoranthene	1.268	1.308	3.1	TM
25	TM Benzo (k) fluoranthene	1.439	1.468	2.0	TM
26	*TM Benzo (a) pyrene	1.167	1.247	6.9	*TM
27	TM Dibenz (a,h) anthracene	1.151	1.217	5.8	TM
28	TM Benzo (g,h,i) perylene	1.264	1.243	1.7	TM
29					
30					
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40					

Average

3.7

Data File : M:\LINUS\DATA\L191028\1028L176.D
 Acq On : 5 Nov 19 16:00
 Sample : 5 SIM 10/28/19 (1)
 Misc :

Vial: 76
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 5 16:17 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.29	136	42309	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.27	164	17180	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30616	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	37162	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	38169	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.50	82	19677	2.44073	ppb	0.01
Spiked Amount	5.000		Recovery	=	48.820%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	49474	2.34087	ppb	0.00
Spiked Amount	5.000		Recovery	=	46.820%	
8) Surrogate Recovery (FBP)	5.52	172	31570	2.42498	ppb	0.00
Spiked Amount	5.000		Recovery	=	48.500%	
15) Fluoranthene-D10 (FRT)	9.37	212	58111	2.60830	ppb	0.00
Spiked Amount	5.000		Recovery	=	52.160%	
19) Surrogate Recovery (TPH)	9.86	244	35839	2.50815	ppb	0.00
Spiked Amount	5.000		Recovery	=	50.160%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	103401	4.92679	ppb	100
5) 2-Methylnaphthalene	5.08	142	62401	4.97897	ppb	99
6) 1-Methylnaphthalene	5.19	142	61779	4.82508	ppb	97
9) Acenaphthylene	6.11	152	195402	5.34771	ppb	100
10) Acenaphthene	6.30	154	51297	4.90102	ppb	100
11) Fluorene	6.90	166	60340	5.17224	ppb	99
13) Phenanthrene	8.01	178	89217	4.93321	ppb	100
14) Anthracene	8.08	178	81944	5.24753	ppb	100
16) Fluoranthene	9.39	202	130993	5.31262	ppb	100
18) Pyrene	9.64	202	131911	4.96062	ppb	100
20) Benz (a) anthracene	11.09	228	107792	5.10629	ppb	99
21) Chrysene	11.14	228	109108	4.66775	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.01	276	111586	5.41034	ppb	83
24) Benzo (b) fluoranthene	12.90	252	99844	5.15733	ppb	96
25) Benzo (k) fluoranthene	12.96	252	112056	5.10026	ppb	98
26) Benzo (a) pyrene	13.45	252	95195	5.34306	ppb	# 94
27) Dibenz (a,h) anthracene	15.05	278	92931	5.28887	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	94852	4.91617	ppb	94

(#) = qualifier out of range (m) = manual integration
 1028L176.D L1028.M Tue Nov 05 16:17:12 2019

Quantitation Report

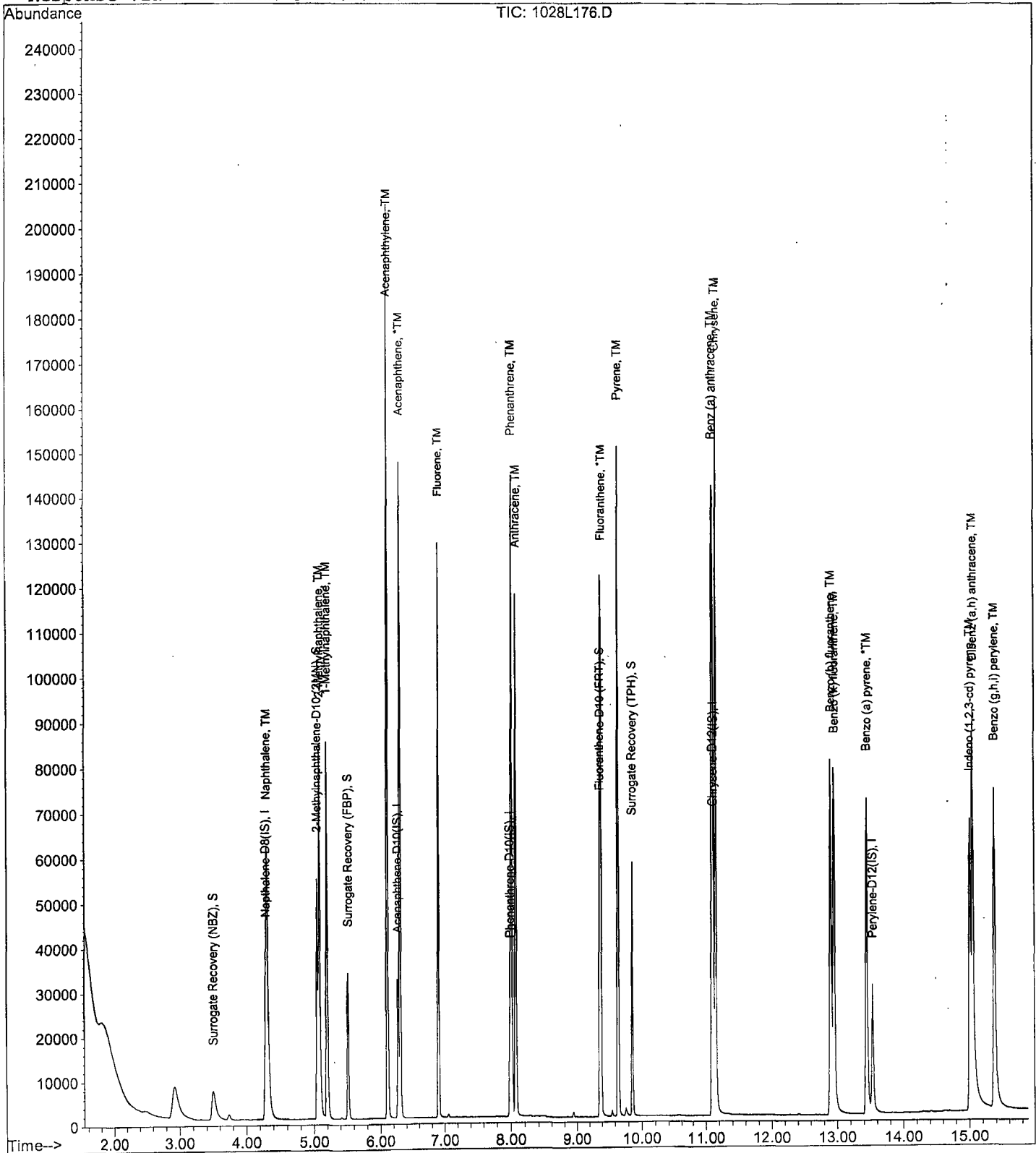
Data File : M:\LINUS\DATA\L191028\1028L176.D
Acq On : 5 Nov 19 16:00
Sample : 5 SIM 10/28/19 (1)
Misc :

Vial: 76
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 5 16:17 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L191028\1028L166.D Vial: 66
 Acq On : 5 Nov 19 12:26 Operator: MA
 Sample : BA01775W11 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 13:38 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	43104	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17532	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	30868	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	37527	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	40287	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	639909	97.38773	ppb	0.01
Spiked Amount	6.250		Recovery	= 1558.208%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	100282	5.82168	ppb	0.00
Spiked Amount	6.250		Recovery	= 93.152%		
8) Surrogate Recovery (FBP)	5.52	172	862946	81.19299	ppb	0.00
Spiked Amount	6.250		Recovery	= 1299.088%		
15) Fluoranthene-D10 (FRT)	9.36	212	123282	6.86040	ppb	-0.01
Spiked Amount	6.250		Recovery	= 109.760%		
19) Surrogate Recovery (TPH)	9.87	244	1024859	88.78228	ppb	0.01
Spiked Amount	6.250		Recovery	= 1420.512%		

Target Compounds Qvalue

Quantitation Report

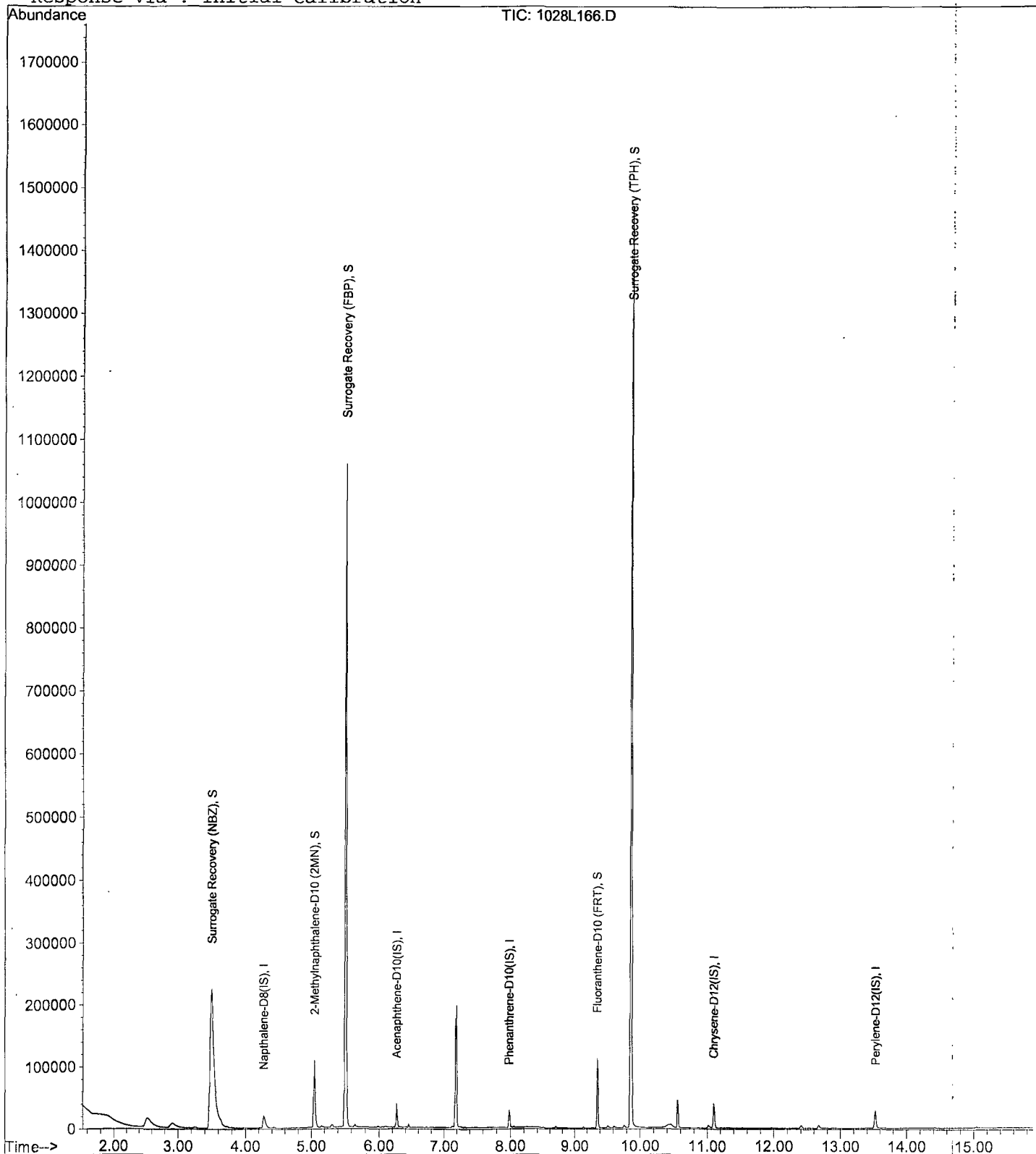
Data File : M:\LINUS\DATA\L191028\1028L166.D
Acq On : 5 Nov 19 12:26
Sample : BA01775W11 1/800
Misc :

Vial: 66
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 13:38 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L167.D Vial: 67
 Acq On : 5 Nov 19 12:48 Operator: MA
 Sample : BA01777W10 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 13:38 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	44191	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18042	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	31579	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	38532	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	40990	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	614512	91.22212	ppb	0.01
Spiked Amount	6.250		Recovery	= 1459.552%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96144	5.44416	ppb	0.00
Spiked Amount	6.250		Recovery	= 87.104%		
8) Surrogate Recovery (FBP)	5.52	172	831755	76.04613	ppb	0.00
Spiked Amount	6.250		Recovery	= 1216.736%		
15) Fluoranthene-D10 (FRT)	9.36	212	119766	6.51468	ppb	-0.01
Spiked Amount	6.250		Recovery	= 104.240%		
19) Surrogate Recovery (TPH)	9.87	244	1009039	85.13192	ppb	0.01
Spiked Amount	6.250		Recovery	= 1362.112%		

Target Compounds Qvalue

Quantitation Report

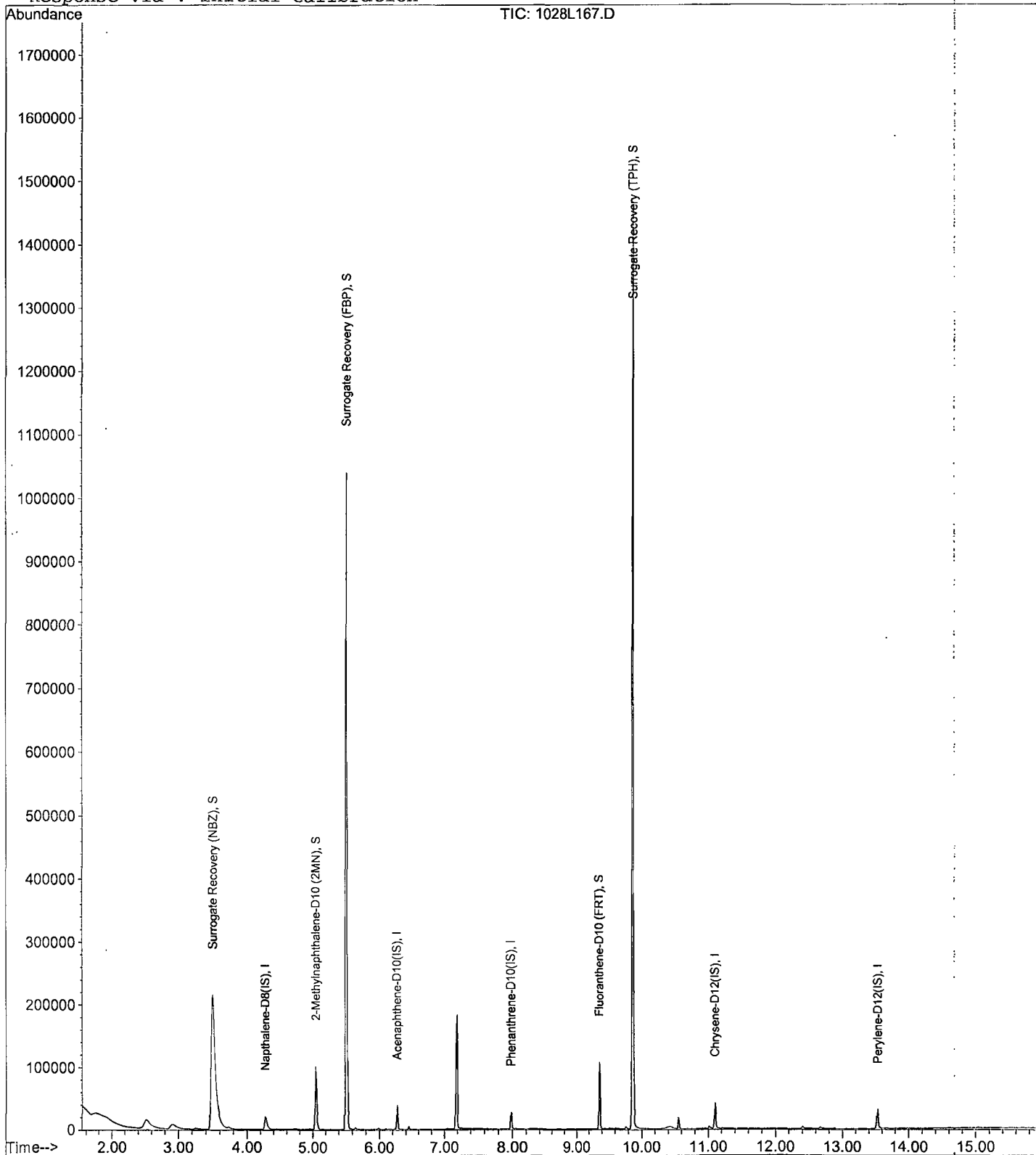
Data File : M:\LINUS\DATA\L191028\1028L167.D
Acq On : 5 Nov 19 12:48
Sample : BA01777W10 1/800
Misc :

Vial: 67
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 13:38 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L168.D Vial: 68
 Acq On : 5 Nov 19 13:10 Operator: MA
 Sample : BA01779W11 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 13:39 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	42885	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17692	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	31299	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	37974	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	40395	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	617549	94.46471	ppb	0.01
Spiked Amount	6.250		Recovery	= 1511.440%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96263	5.61690	ppb	0.00
Spiked Amount	6.250		Recovery	= 89.872%		
8) Surrogate Recovery (FBP)	5.52	172	840105	78.32908	ppb	0.00
Spiked Amount	6.250		Recovery	= 1253.264%		
15) Fluoranthene-D10 (FRT)	9.37	212	120960	6.63849	ppb	0.00
Spiked Amount	6.250		Recovery	= 106.208%		
19) Surrogate Recovery (TPH)	9.87	244	987771	84.56214	ppb	0.01
Spiked Amount	6.250		Recovery	= 1352.992%		

Target Compounds Qvalue

Quantitation Report

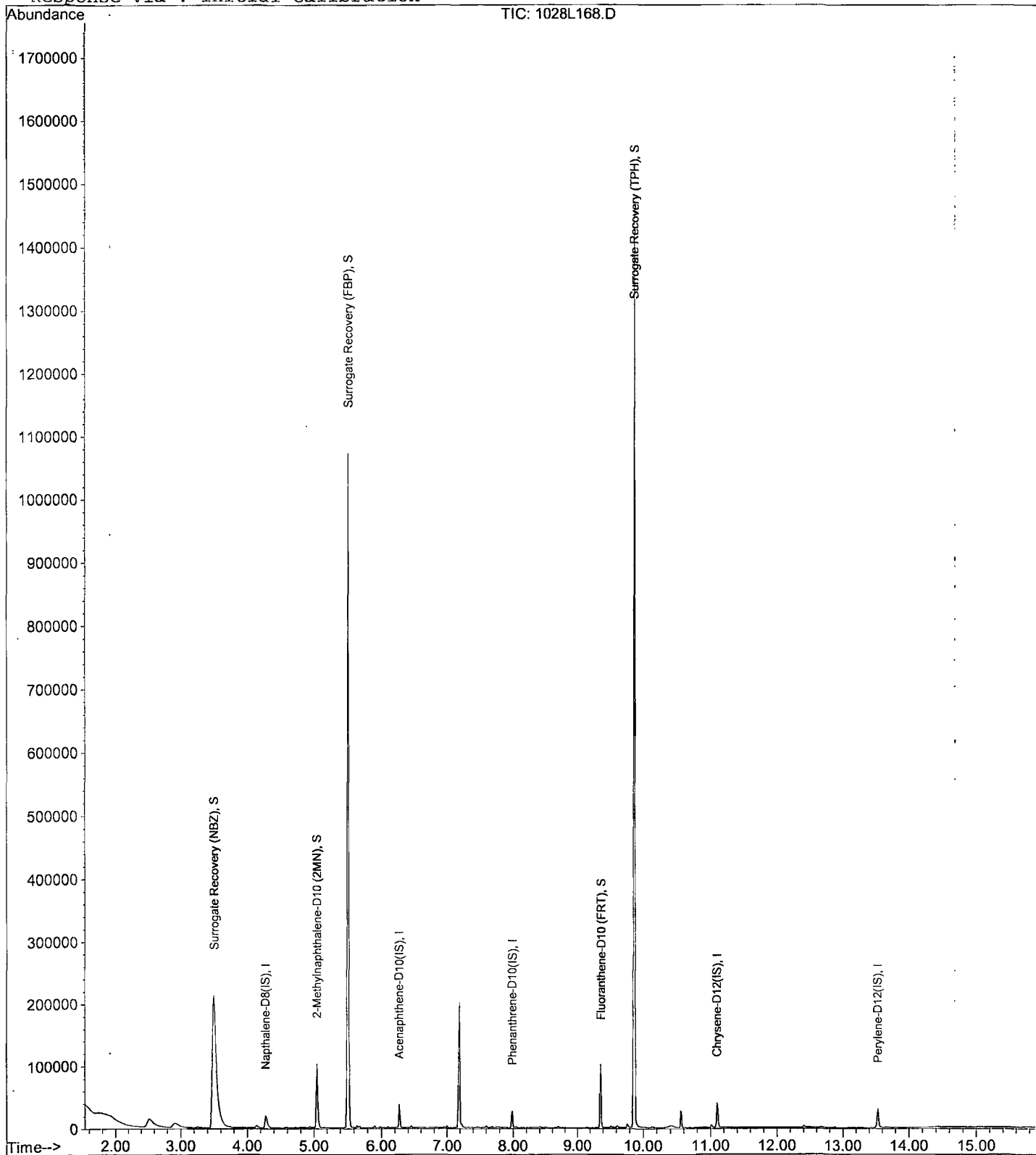
Data File : M:\LINUS\DATA\L191028\1028L168.D
Acq On : 5 Nov 19 13:10
Sample : BA01779W11 1/800
Misc :

Vial: 68
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 13:39 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L169.D Vial: 69
 Acq On : 5 Nov 19 13:32 Operator: MA
 Sample : BA01781W10 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 14:59 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.29	136	42367	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.27	164	17473	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	31316	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	38162	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	39864	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	635922	98.46451	ppb	0.01
Spiked Amount	6.250		Recovery	= 1575.440%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	99635	5.88473	ppb	0.00
Spiked Amount	6.250		Recovery	= 94.160%		
8) Surrogate Recovery (FBP)	5.52	172	856141	80.82471	ppb	0.00
Spiked Amount	6.250		Recovery	= 1293.200%		
15) Fluoranthene-D10 (FRT)	9.37	212	123305	6.76352	ppb	0.00
Spiked Amount	6.250		Recovery	= 108.224%		
19) Surrogate Recovery (TPH)	9.87	244	1009224	85.97308	ppb	0.01
Spiked Amount	6.250		Recovery	= 1375.568%		

Target Compounds Qvalue

Quantitation Report

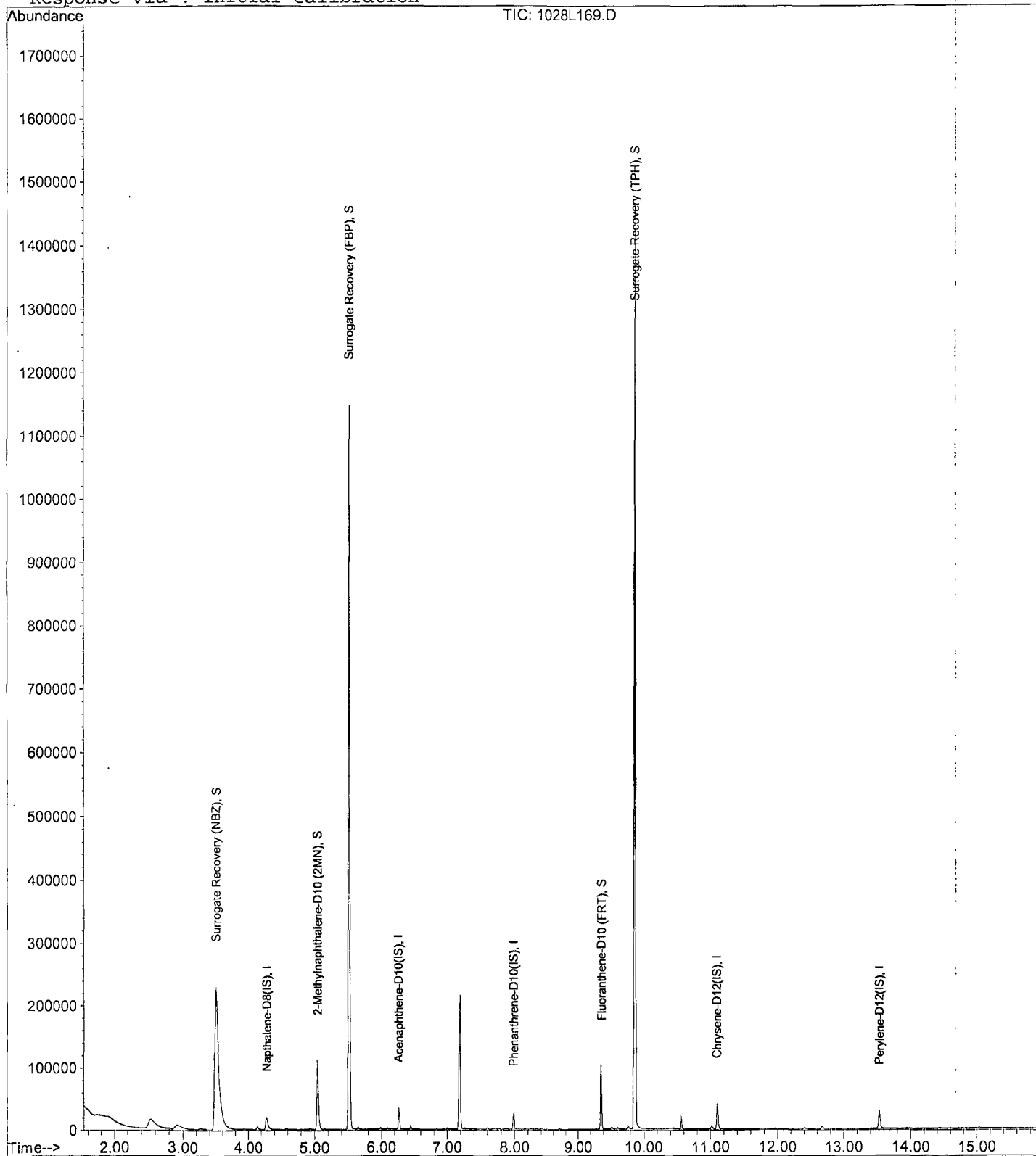
Data File : M:\LINUS\DATA\L191028\1028L169.D
Acq On : 5 Nov 19 13:32
Sample : BA01781W10 1/800
Misc :

Vial: 69
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 14:59 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L170.D
 Acq On : 5 Nov 19 13:54
 Sample : BA01782W10 1/800
 Misc :

Vial: 70
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 14:59 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	40776	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	16657	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	29841	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	36787	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	38788	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	609546	98.06307	ppb	0.01
Spiked Amount	6.250		Recovery	=	1569.008%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	94116	5.77566	ppb	0.00
Spiked Amount	6.250		Recovery	=	92.416%	
8) Surrogate Recovery (FBP)	5.52	172	816819	80.89011	ppb	0.00
Spiked Amount	6.250		Recovery	=	1294.240%	
15) Fluoranthene-D10 (FRT)	9.37	212	118906	6.84461	ppb	0.00
Spiked Amount	6.250		Recovery	=	109.520%	
19) Surrogate Recovery (TPH)	9.87	244	987537	87.27001	ppb	0.01
Spiked Amount	6.250		Recovery	=	1396.320%	

Target Compounds

Qvalue

Quantitation Report

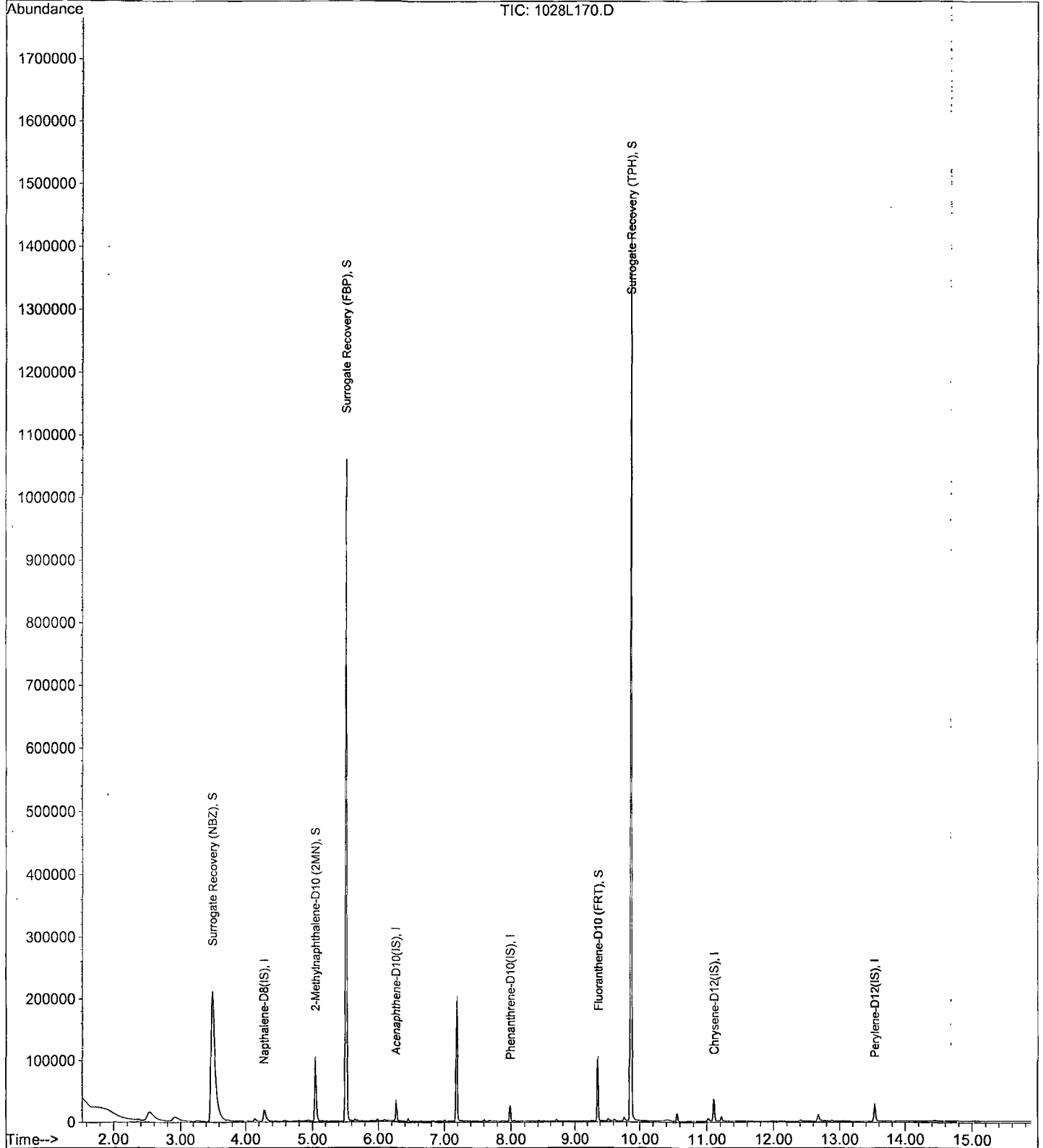
Data File : M:\LINUS\DATA\L191028\1028L170.D
Acq On : 5 Nov 19 13:54
Sample : BA01782W10 1/800
Misc :

Vial: 70
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 14:59 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L171.D Vial: 71
 Acq On : 5 Nov 19 14:17 Operator: MA
 Sample : BA01784W14 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 15:00 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	42510	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17304	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30670	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	37733	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	39551	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	621896	95.96884	ppb	0.01
Spiked Amount	6.250		Recovery	= 1535.504%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96501	5.68046	ppb	0.00
Spiked Amount	6.250		Recovery	= 90.880%		
8) Surrogate Recovery (FBP)	5.52	172	838430	79.92574	ppb	0.00
Spiked Amount	6.250		Recovery	= 1278.816%		
15) Fluoranthene-D10 (FRT)	9.37	212	120192	6.73162	ppb	0.00
Spiked Amount	6.250		Recovery	= 107.712%		
19) Surrogate Recovery (TPH)	9.87	244	971008	83.65800	ppb	0.01
Spiked Amount	6.250		Recovery	= 1338.528%		

Target Compounds Qvalue

Quantitation Report

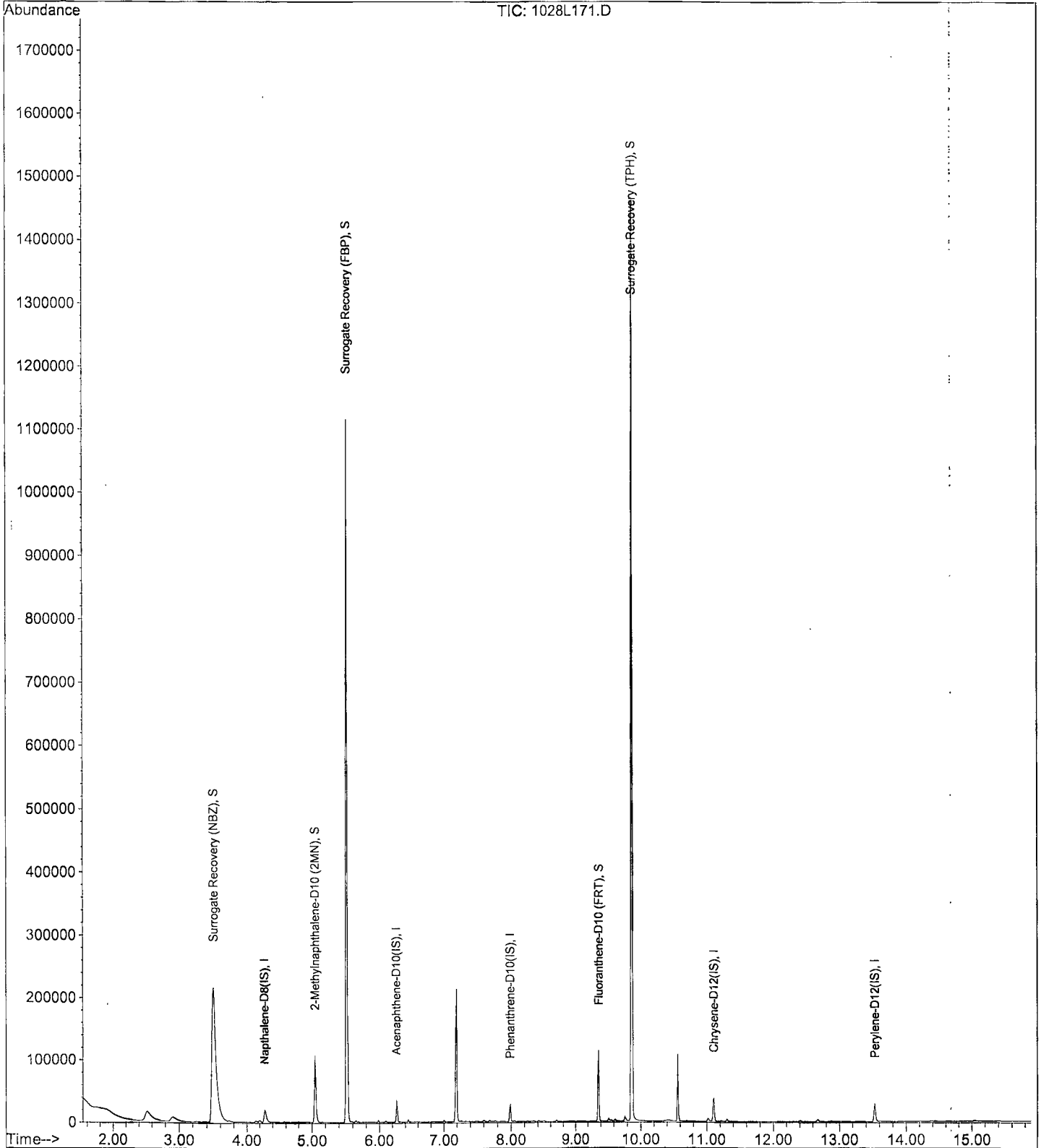
Data File : M:\LINUS\DATA\L191028\1028L171.D
Acq On : 5 Nov 19 14:17
Sample : BA01784W14 1/800
Misc :

Vial: 71
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 15:00 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L163.D
 Acq On : 5 Nov 19 10:31
 Sample : 191029A BLK 1/800
 Misc :

Vial: 63
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 11:11 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	44857	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18050	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	31808	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.11	240	38127	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	40362	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	629324	92.03387	ppb	0.00
Spiked Amount	6.250					
				Recovery	= 1472.544%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96691	5.39385	ppb	0.00
Spiked Amount	6.250					
				Recovery	= 86.304%	
8) Surrogate Recovery (FBP)	5.52	172	833016	76.12766	ppb	0.00
Spiked Amount	6.250					
				Recovery	= 1218.048%	
15) Fluoranthene-D10 (FRT)	9.36	212	119700	6.46422	ppb	-0.01
Spiked Amount	6.250					
				Recovery	= 103.424%	
19) Surrogate Recovery (TPH)	9.87	244	967601	82.50299	ppb	0.01
Spiked Amount	6.250					
				Recovery	= 1320.048%	

Target Compounds Qvalue

Quantitation Report

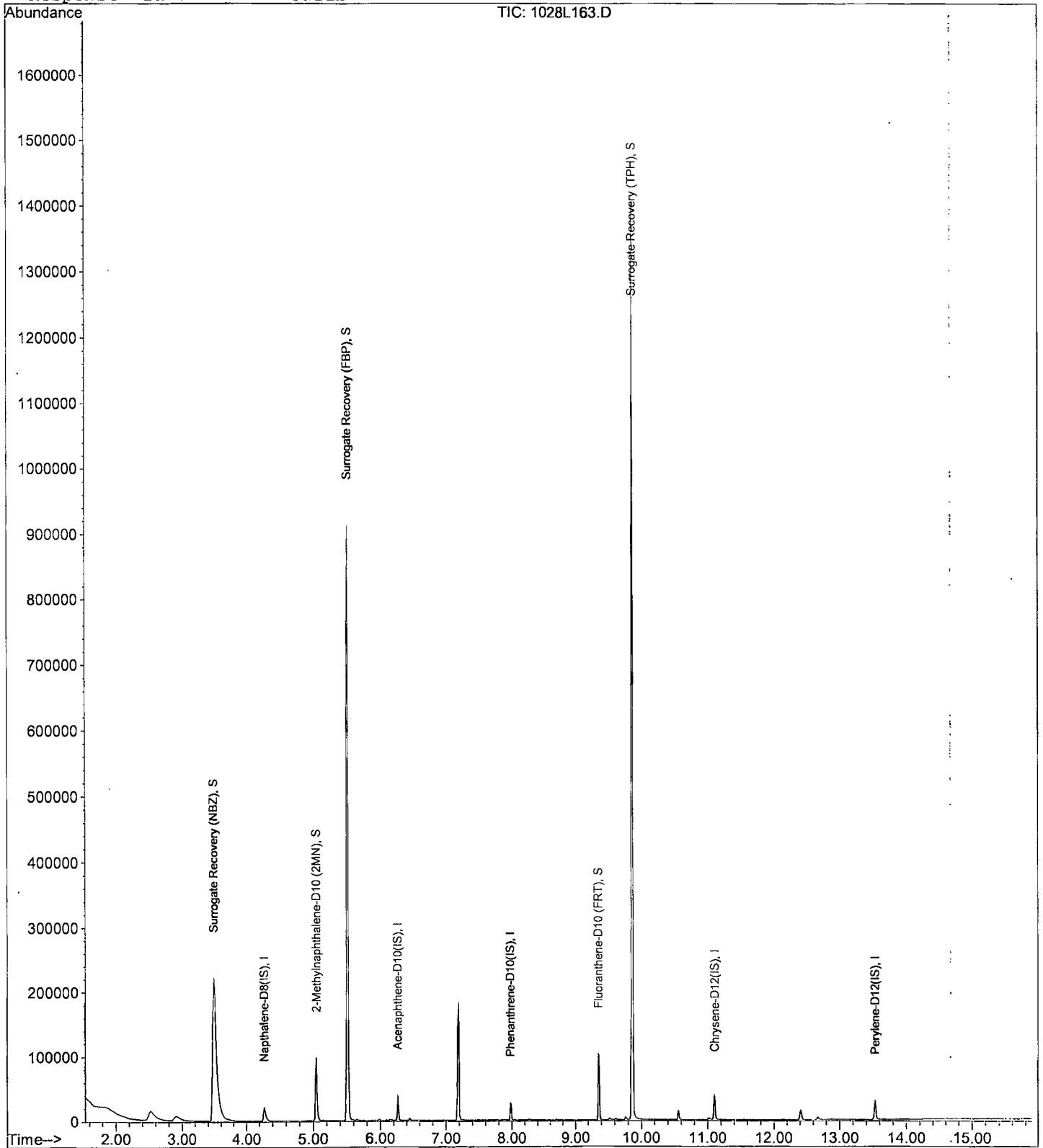
Data File : M:\LINUS\DATA\L191028\1028L163.D
Acq On : 5 Nov 19 10:31
Sample : 191029A BLK 1/800
Misc :

Vial: 63
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 11:11 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L164.D
 Acq On : 5 Nov 19 10:53
 Sample : 191029A LCS-2 1/800
 Misc :

Vial: 64
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 11:12 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	43683	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17918	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	31966	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	38171	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	40236	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.47	82	181	0.02718	ppb	-0.02
Spiked Amount	6.250		Recovery	=	0.432%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	95466	5.46863	ppb	0.00
Spiked Amount	6.250		Recovery	=	87.504%	
8) Surrogate Recovery (FBP)	5.51	172	46	0.00423	ppb	-0.01
Spiked Amount	6.250		Recovery	=	0.064%	
15) Fluoranthene-D10 (FRT)	9.36	212	116900	6.28180	ppb	-0.01
Spiked Amount	6.250		Recovery	=	100.512%	
19) Surrogate Recovery (TPH)	9.86	244	905	0.07708	ppb	0.00
Spiked Amount	6.250		Recovery	=	1.232%	
Target Compounds						
3) Naphthalene	4.30	128	105350	6.07720	ppb	99
5) 2-Methylnaphthalene	5.08	142	62496	6.03713	ppb	99
6) 1-Methylnaphthalene	5.19	142	62608	5.92003	ppb	100
9) Acenaphthylene	6.11	152	201007	6.59316	ppb	100
10) Acenaphthene	6.30	154	53619	6.13984	ppb	95
11) Fluorene	6.90	166	63081	6.48061	ppb	98
13) Phenanthrene	8.02	178	93890	6.21543	ppb	99
14) Anthracene	8.08	178	81681	6.26223	ppb	99
16) Fluoranthene	9.38	202	136273	6.61668	ppb	# 81
18) Pyrene	9.64	202	138846	6.35424	ppb	94
20) Benz (a) anthracene	11.09	228	114435	6.59711	ppb	99
21) Chrysene	11.14	228	117047	6.09378	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.00	276	120350	7.10128	ppb	95
24) Benzo (b) fluoranthene	12.90	252	113417	6.94683	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	115882	6.25431	ppb	96
26) Benzo (a) pyrene	13.43	252	98534	6.55794	ppb	99
27) Dibenz (a,h) anthracene	15.05	278	100633	6.79123	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	104573	6.42696	ppb	98

(#) = qualifier out of range (m) = manual integration
 1028L164.D L1028.M Tue Nov 12 12:31:01 2019

Quantitation Report

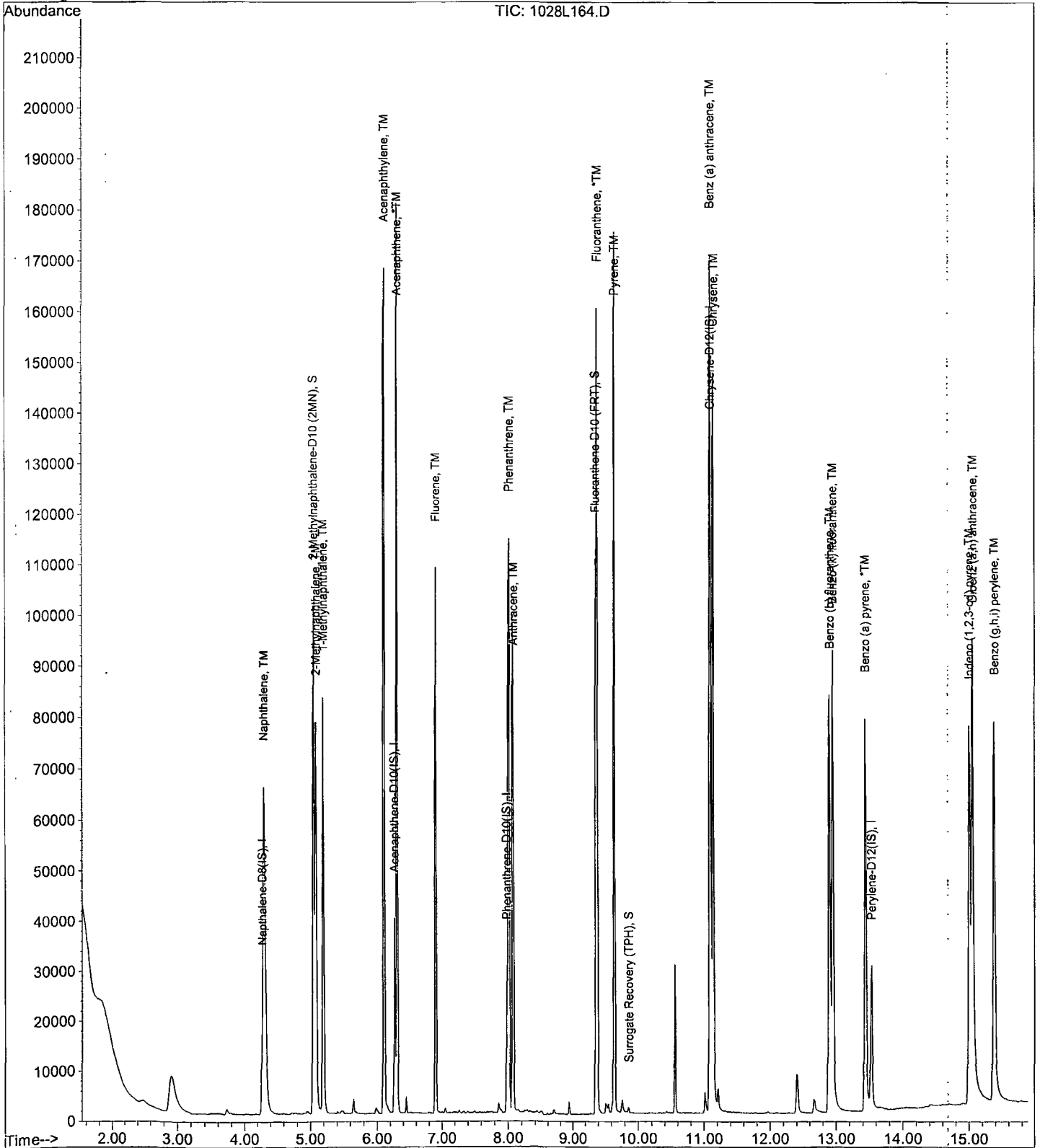
Data File : M:\LINUS\DATA\L191028\1028L164.D
Acq On : 5 Nov 19 10:53
Sample : 191029A LCS-2 1/800
Misc :

Vial: 64
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 11:12 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L165.D
 Acq On : 5 Nov 19 12:04
 Sample : 191029A LCSD-2 1/800
 Misc :

Vial: 65
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 13:01 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	45280	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18710	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	33144	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	39090	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	40700	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.50	82	46	0.00666	ppb	0.01
Spiked Amount	6.250		Recovery	=	0.112%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	99287	5.48692	ppb	0.00
Spiked Amount	6.250		Recovery	=	87.792%	
8) Surrogate Recovery (FBP)	5.51	172	49	0.00432	ppb	-0.01
Spiked Amount	6.250		Recovery	=	0.064%	
15) Fluoranthene-D10 (FRT)	9.37	212	118958	6.16520	ppb	0.00
Spiked Amount	6.250		Recovery	=	98.640%	
19) Surrogate Recovery (TPH)	9.86	244	797	0.06628	ppb	0.00
Spiked Amount	6.250		Recovery	=	1.056%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	107509	5.98302	ppb	99
5) 2-Methylnaphthalene	5.08	142	64004	5.96474	ppb	99
6) 1-Methylnaphthalene	5.19	142	63874	5.82673	ppb	100
9) Acenaphthylene	6.11	152	204542	6.42511	ppb	99
10) Acenaphthene	6.30	154	54665	5.99465	ppb	94
11) Fluorene	6.91	166	65051	6.40010	ppb	99
13) Phenanthrene	8.02	178	96525	6.16276	ppb	100
14) Anthracene	8.08	178	84362	6.23790	ppb	100
16) Fluoranthene	9.39	202	136653	6.39931	ppb	99
18) Pyrene	9.64	202	141588	6.32739	ppb	100
20) Benz (a) anthracene	11.10	228	116735	6.57149	ppb	97
21) Chrysene	11.14	228	115239	5.85860	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.01	276	119070	6.86058	ppb	84
24) Benzo (b) fluoranthene	12.90	252	109233	6.61429	ppb	96
25) Benzo (k) fluoranthene	12.96	252	120260	6.41660	ppb	98
26) Benzo (a) pyrene	13.45	252	97607	6.42219	ppb	# 93
27) Dibenz (a,h) anthracene	15.05	278	98787	6.59065	ppb	97
28) Benzo (g,h,i) perylene	15.38	276	102074	6.20186	ppb	# 91

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

Quantitation Report

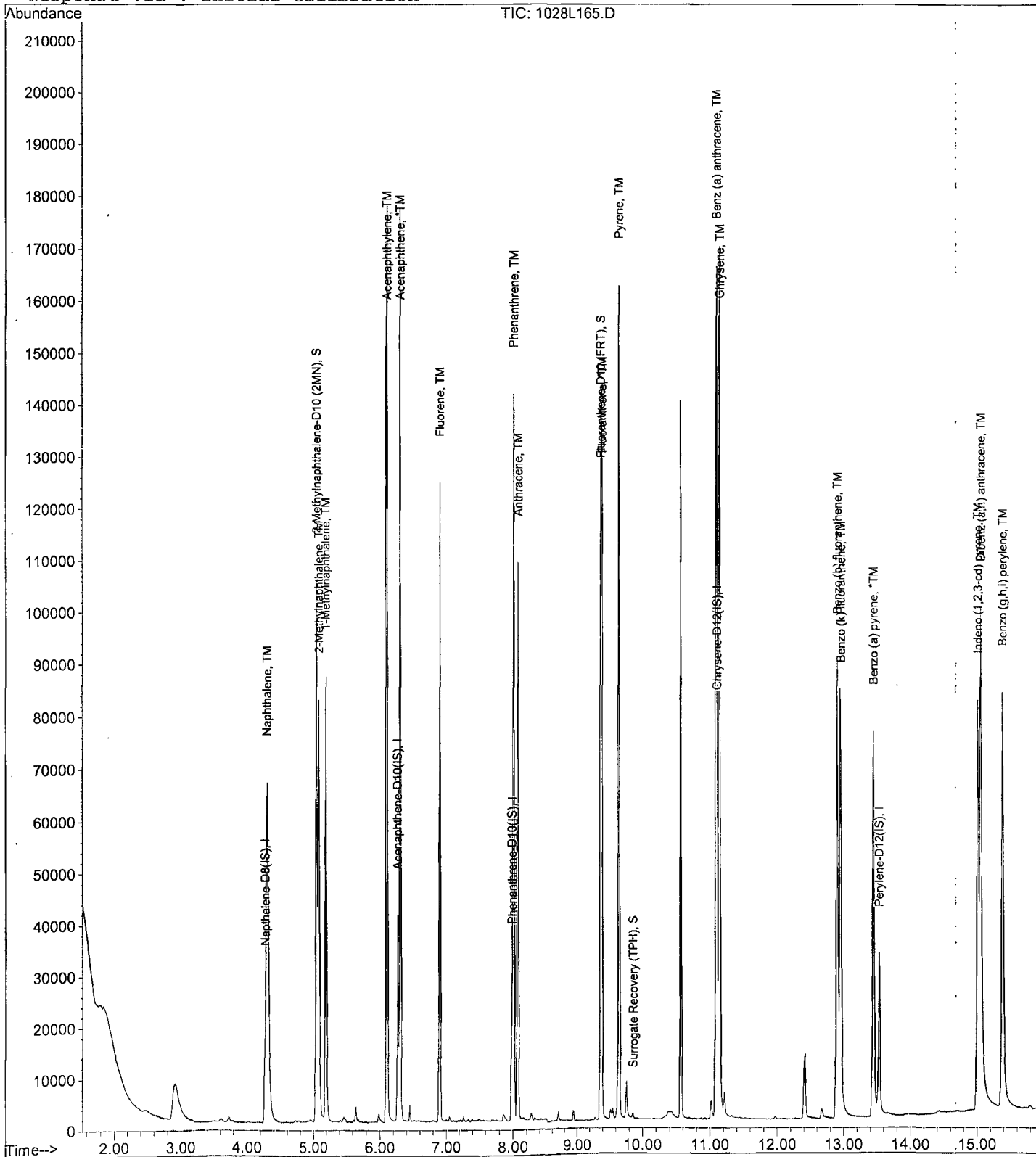
Data File : M:\LINUS\DATA\L191028\1028L165.D
 Acq On : 5 Nov 19 12:04
 Sample : 191029A LCSD-2 1/800
 Misc :

Vial: 65
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 13:01 2019

Quant Results File: L1028.RES

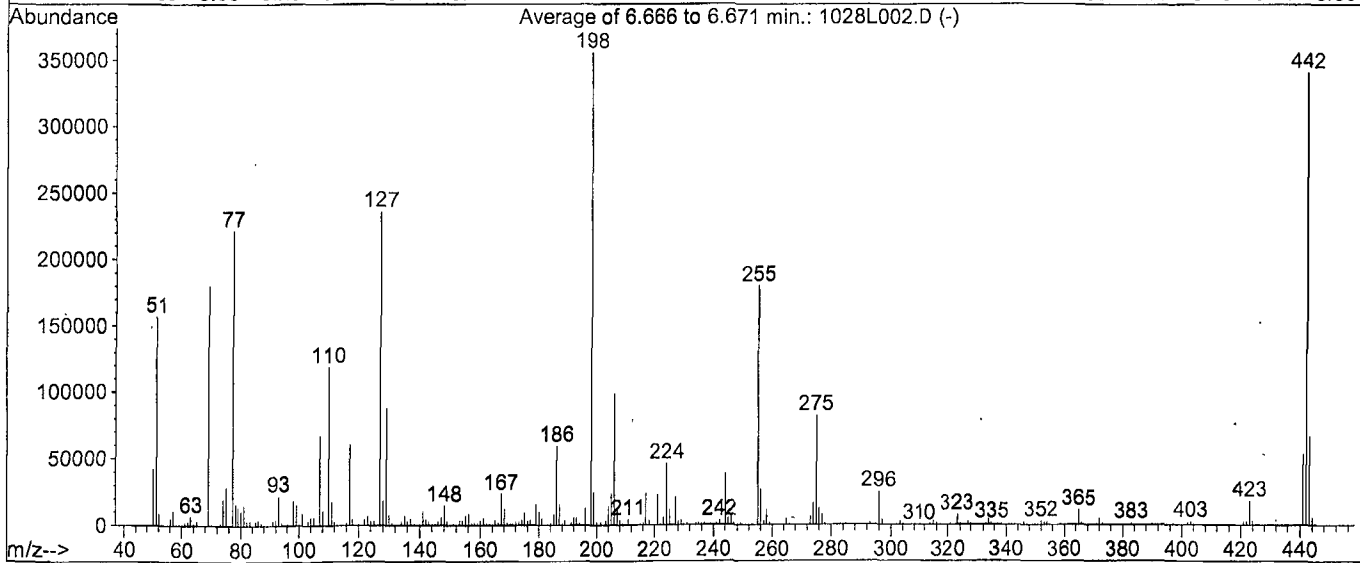
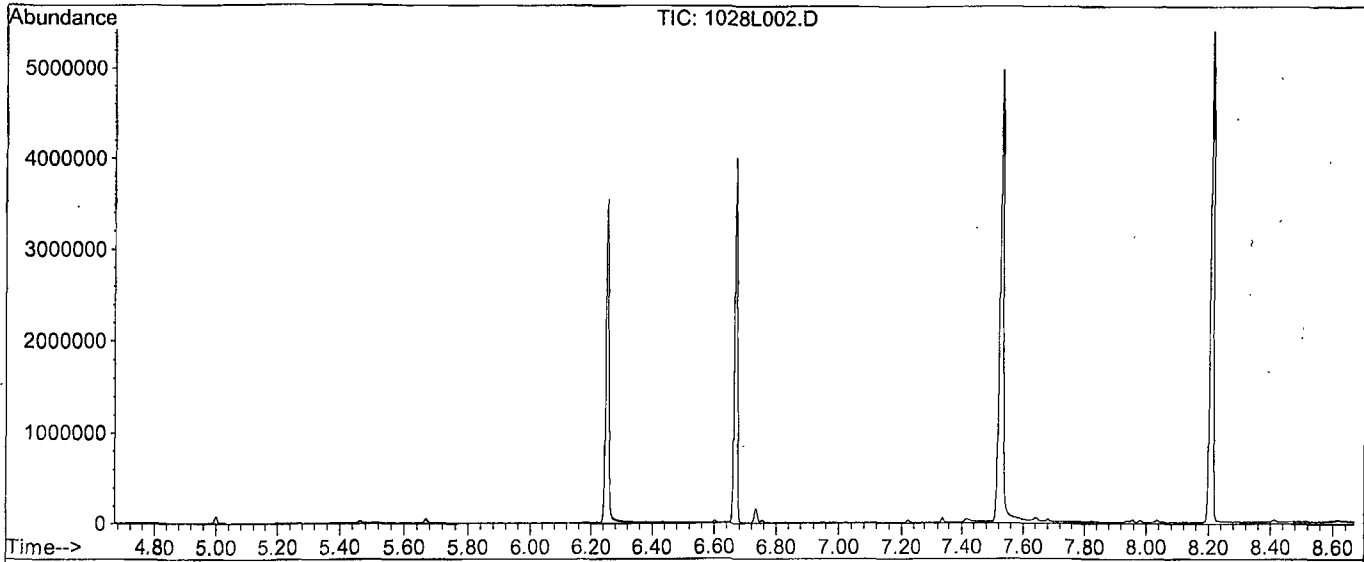
Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L002.D
 Acq On : 28 Oct 19 10:20
 Sample : SV Tune 07/11/19
 Misc :

Vial: 2
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1630

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.0	156621	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	628	PASS
127	198	10	80	66.3	235925	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355968	PASS
199	198	5	9	6.8	24237	PASS
275	198	10	60	23.0	81733	PASS
365	198	1	100	3.1	10977	PASS
441	442	0.01	24	15.5	52947	PASS
442	198	50	500	95.8	340885	PASS
443	442	15	24	19.6	66771	PASS

Data File Name: 1028L002.D
Data File Path: M:\LINUS\DATA\191028\
Operator: MA
Date Acquired: 28 Oct 2019 10:20
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 2
Instrument Name: Linus

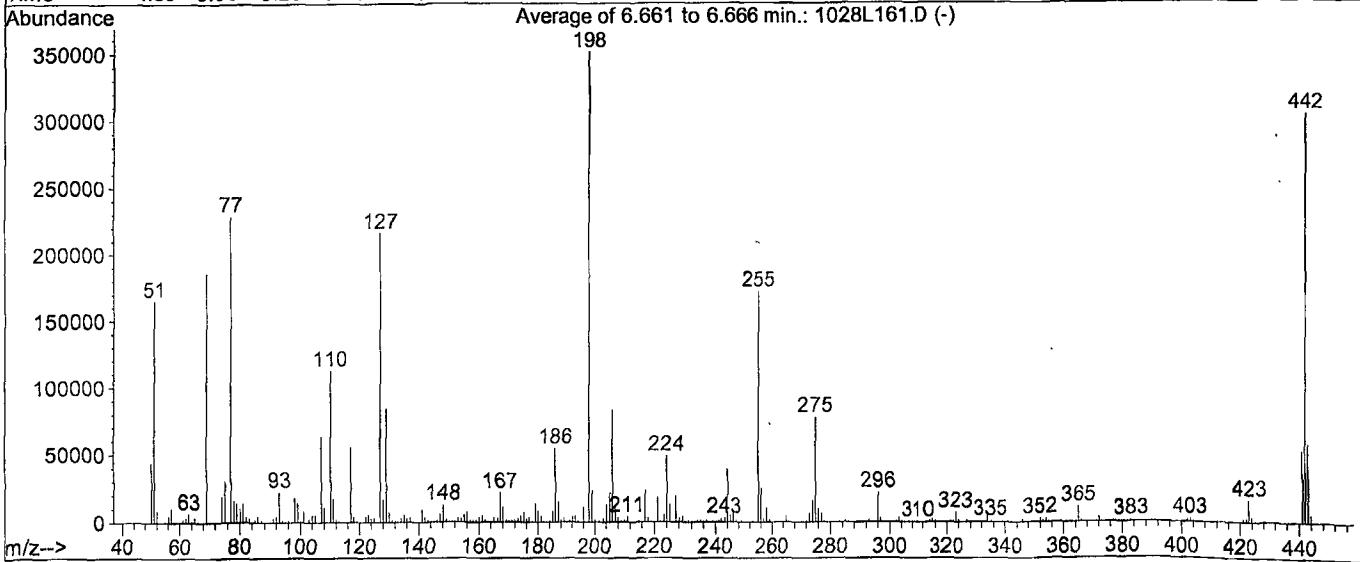
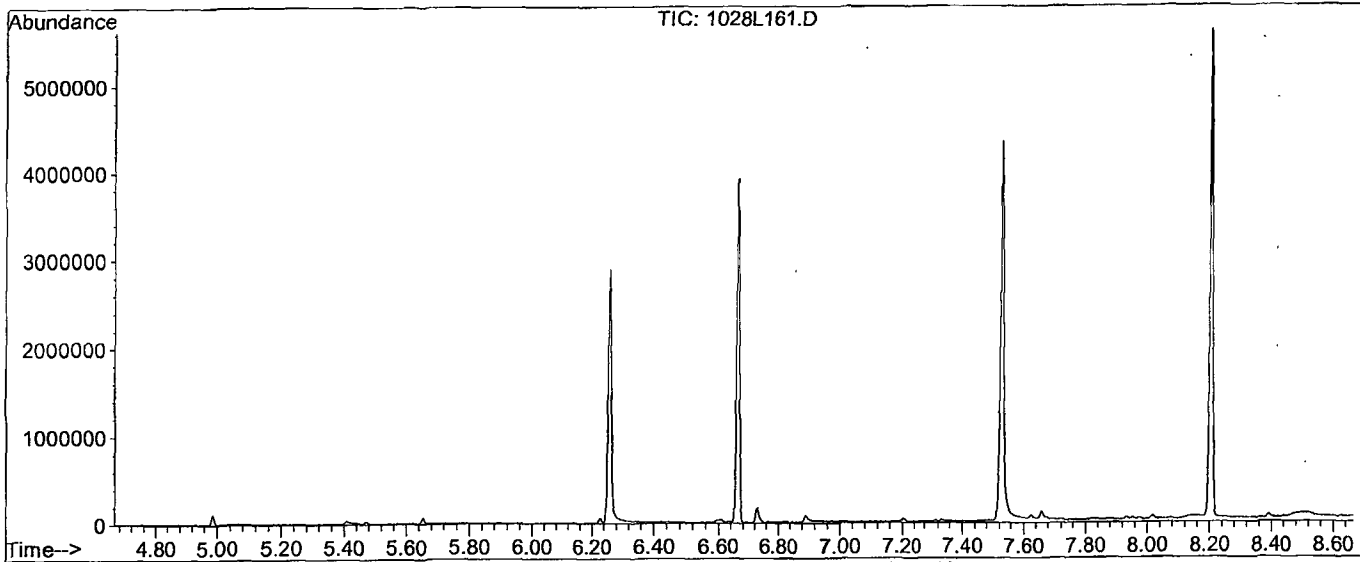
#	Name	Ret Time	Target Response
1)	DDT	8.21	37737600
2)	DDD	7.96	199800
3)	DDE	7.25	192158

Breakdown 1.03

Data File : M:\LINUS\DATA\L191028\1028L161.D
 Acq On : 5 Nov 19 9:37
 Sample : SV Tune 10/01/19
 Misc :

Vial: 61
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1637, 1638, 1639; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
51	198	10	80	47.1	165312	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	485	PASS
127	198	10	80	61.5	216085	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	351339	PASS
199	198	5	9	6.6	23155	PASS
275	198	10	60	22.1	77653	PASS
365	198	1	100	3.2	11296	PASS
441	442	0.01	24	17.4	52677	PASS
442	198	50	500	86.3	303232	PASS
443	442	15	24	19.0	57675	PASS

Data File Name: 1028L161.D
Data File Path: M:\LINUS\DATA\191028\
Operator: MA
Date Acquired: 5 Nov 19 9:37
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 61
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	38975200
2)	DDD	7.98	197956
3)	DDE	8.15	53943

Breakdown 0.64

Name of Final Standard Semivolatile (SV) Tuning Solution
 Prep Date 10/01/19
 Exp Date 11/30/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	11/30/20	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 SIM PAH Internal Standard Prep'd By (Initials) MA
 Prep Date 10/28/19
 Exp Date 10/28/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0151843-49414	07/35/25	625uL	10mL	MC 59130	125 ug/mL

Name of Final Standard SIM Curve Prep'd By (Initials) MA
 Prep Date 07/28/19
 Exp Date 01/24/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 59130 90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 59130 80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 59130 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 59130 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL

SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	5 uL	200uL	MC 59130 190 uL	5.0 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURR	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	4 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	10 uL	100 uL	MC 59130 80 uL	20 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	10 uL	*	*	10 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200	08/10/19	08/10/20	25 uL	100uL	MC 59130 50 uL	50 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	25 uL	*	*	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	50 uL	100uL	na	100 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	50 uL	*	*	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL

Name of Final Standard

8270 PAH SIM Second Source

Prep'd By (Initials)

MA

Prep Date 10/28/19

Exp Date 12/28/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 59130 195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	4 uL	*	*	2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 08/10/19
 Exp Date 08/10/20

Prep'd By (I MA)

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA #	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot#	Final Standard Conc (range)
				(or reference to APPL prep date)				(or APPL Prep Date)	
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	CL13121-41102	08/10/20	1000 uL	1mL	NA	200ug/mL

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

Prep'd By (Initials) GA

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

Name of Final Standard SIM 2S Surrogate
 Prep Date 05/17/19
 Exp Date 01/24/20

Prep'd By (Initials) GA

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

Name of Final Standard SIM Spike
 Prep Date 09/30/19
 Exp Date 09/30/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
(from container Label)	Supplier	APPL Mix Name	Conc.(range)	APPL prep date	Exp Date	Stock	Volume	(or APPL Prep Date)	Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13121- 41224, 41225	12/31/22	2 mL	10 mL	Acetone 217497	40 ug/mL















Name of Final Standard SIM Surrogate
 Prep Date 09/03/19
 Exp Date 03/03/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0145699- 40651,41234,41236	1/31/25, 4/20/25	2500 uL	50-mL	Acetone #217497	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	191029A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 10/3/19 10/3/20	Surrogate ID 1	8270 Surrogate 10/3/19 10/3/20				
Spiked ID 2	Sim Spike 9/30/19 9/30/19 9/30/20	Surrogate ID 2	SIM Surrogate 10/27/19 10/25/20				
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		no			
Spiked ID 7		Ext. Start Time:		10/29/19 12:35			
Spiked ID 8		Ext. End Time:		11/04/19 10:25			
GC Requires Extract By:							
pH1	2	10/29/19 14:00	Water Bath Temp 1 °C	EWB5 75/74.2 °			
pH2	14	10/30/19 13:05	Water Bath Temp 2 °C	EWB6 75/74.9			
pH3			Water Bath Temp 3 °C				

Spiked By:		Date		Witnessed By:		Date					
Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments	
1	191029A Blk			1,050	1,2	800	1	2/1	10/29/19 12:35		
					equip	EWB5					
2	191029A LCS-1	1	1	1	1	800	1	2/1	10/29/19 12:35		
					equip	EWB5					
3	191029A LCS-2	0.125	2	0.050	2	800	1	2/1	10/29/19 12:35		
					equip	EWB5					
4	191029A LCSD-1	1	1	1	1	800	1	2/1	10/29/19 12:35		
					equip	EWB5					
5	191029A LCSD-2	0.125	2	0.050	2	800	1	2/1	10/29/19 12:35		
					equip	EWB5					
6	BA01775 BA01775W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB5					
7	BA01777 BA01777W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB5					
8	BA01779 BA01779W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB5					
9	BA01781 BA01781W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB5					
10	BA01782 BA01782W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB5					
11	BA01784 BA01784W14			1,050	1,2	800	1	2/1	10/29/19 12:35	90551	
					equip	EWB6					
12	BA01829 BA01829W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90559	
					equip	EWB6					
13	BA01831 BA01831W17			1,050	1,2	800	1	2/1	10/29/19 12:35	90559	
					equip	EWB6					
14	BA01833 BA01833W14			1,050	1,2	800	1	2/1	10/29/19 12:35	90559	
					equip	EWB6					

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	59130
1+1 H2SO4	10/14/19
10N NaOH	10/25/19
Filter Paper	400171
B. Na2SO4	2019020631

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	11/4/19
Time	11:44
Refrigerator	GC_C

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

Modified 11/05/19 5:24:40 PM

Reviewed By: **MA** Date **11/5/19**

Injection Log

Directory: M:\LINUS\DATA\L191028\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1028L002.D	1	SV Tune 10/01/19		28 Oct 19 10:20
4	1028L004.D	1	5 SIM 10/28/19(2)		28 Oct 19 12:26
5	1028L005.D	1	0.1 SIM 10/28/19		28 Oct 19 12:51
6	1028L006.D	1	0.2 SIM 10/28/19		28 Oct 19 13:13
7	1028L007.D	1	0.5 SIM 10/28/19		28 Oct 19 13:35
8	1028L008.D	1	1 SIM 10/28/19		28 Oct 19 13:57
9	1028L009.D	1	20 SIM 10/28/19		28 Oct 19 14:19
10	1028L010.D	1	50 SIM 10/28/19		28 Oct 19 14:42
11	1028L011.D	1	100 SIM 10/28/19		28 Oct 19 15:04
12	1028L012.D	1	SS SIM 10/28/19		28 Oct 19 15:55
61	1028L161.D	1	SV Tune 10/01/19		5 Nov 19 9:37
62	1028L162.D	1	5 SIM 10/28/19 (1)		5 Nov 19 9:53
63	1028L163.D	1.25	191029A BLK 1/800		5 Nov 19 10:31
64	1028L164.D	1.25	191029A LCS-2 1/800		5 Nov 19 10:53
65	1028L165.D	1.25	191029A LCSD-2 1/800		5 Nov 19 12:04
66	1028L166.D	1.25	BA01775W11 1/800		5 Nov 19 12:26
67	1028L167.D	1.25	BA01777W10 1/800		5 Nov 19 12:48
68	1028L168.D	1.25	BA01779W11 1/800		5 Nov 19 13:10
69	1028L169.D	1.25	BA01781W10 1/800		5 Nov 19 13:32
70	1028L170.D	1.25	BA01782W10 1/800		5 Nov 19 13:54
71	1028L171.D	1.25	BA01784W14 1/800		5 Nov 19 14:17
76	1028L176.D	1	5 SIM 10/28/19 (1)		5 Nov 19 16:00

ORGANICS
Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19
Instrument: Yoda

Initials: 

1015Y004.D 1015Y005.D 1015Y006.D 1015Y007.D 1015Y008.D 1015Y013.D 1015Y009.D 1015Y010.D 1015Y011.D

	Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(ISTD)	ISTD															
2	1,4-Dioxane		0.3530	0.3893	0.2693	0.3027	0.2621	0.2998	0.3012	0.2730		0.31	14				
3	TM n-Nitrosodimethylamine		0.8794	0.7698	0.7223	0.6934	0.6081	0.6676	0.5851	0.6107		0.69	14	TM			
4	TM Pyridine		1.300	1.485	1.442	1.304	1.197	1.420	1.302	1.343		1.3	7.0	TM			
5	S 2-Fluorophenol (S)		1.401	1.379	1.307	1.317	1.210	1.319	1.295	1.324		1.3	4.4	S			
6	S Phenol-D6 (S)		1.585	1.567	1.478	1.495	1.380	1.491	1.466	1.494		1.5	4.2	S			
7	*TM Phenol		2.060	2.309	2.088	1.951	1.674	1.946	1.803	1.838		2.0	10	*TM			0.800
8	TM Aniline		1.920	2.325	2.175	2.028	1.771	2.059	1.905	1.910		2.0	8.7	TM			
9	TM Bis (2-chloroethyl) ether		0.8544	0.9097	0.8438	0.7693	0.6557	0.7823	0.7275	0.7292		0.78	10	TM			0.700
10	TM 2-Chlorophenol		1.682	1.793	1.675	1.586	1.360	1.564	1.464	1.483		1.6	8.9	TM			0.800
11	TM 1,3-DCB		2.014	2.074	1.961	1.866	1.607	1.873	1.746	1.770		1.9	8.2	TM			
12	*TM 1,4-DCB		2.047	2.133	1.972	1.874	1.631	1.899	1.781	1.795		1.9	8.4	*TM			
13	TM Benzyl alcohol		1.009	1.111	1.018	0.9455	0.8289	0.9518	0.8953	0.8903		0.96	9.3	TM			
14	TM 1,2-DCB		1.843	2.009	1.871	1.744	1.515	1.743	1.644	1.668		1.8	8.7	TM			
15	TM 2-Methylphenol		1.346	1.501	1.379	1.268	1.081	1.258	1.169	1.180		1.3	11	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		0.7566	0.8140	0.7271	0.6719	0.5607	0.6654	0.6182	0.6202		0.68	12	TM			0.010
17	TM Acetophenone		2.499	2.697	2.516	2.331	2.072	2.338	2.250	2.286		2.4	8.1	TM			0.010
18	TM 3&4-Methylphenol		1.788	1.981	1.810	1.681	1.473	1.696	1.601	1.642		1.7	8.9	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		1.371	1.418	1.330	1.235	1.059	1.219	1.143	1.149		1.2	10	**TM			0.500
20	TM Hexachloroethane		0.8090	0.8598	0.8227	0.7741	0.6827	0.7796	0.7315	0.7323		0.77	7.4	TM			0.300
21	I Naphthalene-D8(ISTD)	ISTD															
22	S Nitrobenzene-D5(S)		0.4945	0.4119	0.4063	0.4176	0.4285	0.4246	0.4344	0.4542		0.43	6.6	S			
23	TM Nitrobenzene		0.5114	0.5493	0.5263	0.4911	0.4601	0.4867	0.4686	0.4880		0.50	6.0	TM			0.200
24	TM Isophorone		0.8864	0.9111	0.8655	0.7958	0.7318	0.7808	0.7600	0.7834		0.81	8.0	TM			0.400
25	*TM 2-Nitrophenol		0.2101	0.2324	0.2232	0.2171	0.2054	0.2182	0.2151	0.2257		0.22	3.9	*TM			0.100
26	TM 2,4-Dimethylphenol		0.4289	0.4242	0.3824	0.3563	0.3397	0.3455	0.3304	0.3498		0.37	10	TM			0.200
27	TM Benzoic acid		0.2206	0.3001	0.3367	0.3463	0.3501	0.3651	0.3603	0.3341		0.33	14	TM			
28	TM Bis (2-chloroethoxy) methane		0.4635	0.4863	0.4590	0.4164	0.3848	0.4195	0.3999	0.4148		0.43	8.1	TM			0.300
29	*TM 2,4-Dichlorophenol		0.4112	0.4284	0.4100	0.3735	0.3485	0.3742	0.3684	0.3794		0.39	7.0	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.5131	0.5206	0.4963	0.4609	0.4337	0.4610	0.4566	0.4779		0.48	6.3	TM			
31	TM 3,4-Dimethylphenol		0.6740	0.6939	0.6521	0.6027	0.5664	0.6029	0.5879	0.6128		0.62	7.1	TM			
32	TM Naphthalene		1.322	1.342	1.270	1.159	1.075	1.168	1.128	1.178		1.2	7.9	TM			0.700
33	TM 4-Chloroaniline		0.4598	0.5380	0.5241	0.4632	0.4290	0.4496	0.4132	0.4063		0.46	10	TM			0.010
34	TM 2,6-Dichlorophenol		0.3946	0.4067	0.3947	0.3643	0.3340	0.3615	0.3538	0.3676		0.37	6.6	TM			
35	TM Hexachloropropene		0.4482	0.4842	0.4651	0.4453	0.4264	0.4496	0.4430	0.4633		0.45	3.9	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type	Q
36	*TM	Hexachlorobutadiene		0.3782	0.4008	0.3841	0.3644	0.3431	0.3611	0.3530	0.3722		0.37	5.0	*TM	0.010
37	TM	Caprolactum		0.1120	0.1144	0.1144	0.1028	0.0944	0.1024	0.0996	0.1041		0.11	7.0	TM	0.010
38	*TM	4-Chloro-3-methylphenol		0.4499	0.4705	0.4493	0.4117	0.3814	0.4137	0.4013	0.4252		0.43	6.9	*TM	0.200
39	TM	2-Methylnaphthalene		0.8905	0.9311	0.8859	0.8148	0.7542	0.8082	0.7970	0.8379		0.84	6.9	TM	0.400
40	TM	1-Methylnaphthalene		0.9312	0.9539	0.9112	0.8387	0.7767	0.8363	0.8126	0.8584		0.86	7.1	TM	
41	I	Acenaphthene-D10(IS)	ISTD													
42	**TM	Hexachlorocyclopentadiene		0.7070	0.7962	0.7694	0.7753	0.7278	0.7729	0.7778	0.8429		0.77	5.3	**TM	0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.9561	0.9750	0.9068	0.8740	0.8287	0.8782	0.8747	0.9414		0.90	5.5	TM	0.010
44	*TM	2,4,6-Trichlorophenol		0.6121	0.6144	0.5859	0.5395	0.5107	0.5392	0.5224	0.5703		0.56	7.1	*TM	0.200
45	TM	2,4,5-Trichlorophenol		0.6319	0.6689	0.6388	0.6074	0.5644	0.5843	0.5719	0.6086		0.61	5.9	TM	0.200
46	S	2-Fluorobiphenyl(S)		1.693	1.559	1.521	1.517	1.511	1.452	1.520	1.625		1.5	4.9	S	
47	TM	1,1'-Biphenyl		1.977	1.989	1.855	1.720	1.633	1.699	1.680	1.802		1.8	7.6	TM	0.010
48	TM	2-Chloronaphthalene		1.685	1.682	1.544	1.457	1.343	1.425	1.394	1.491		1.5	8.4	TM	0.800
49	TM	2-Nitroaniline		0.4011	0.4500	0.4340	0.4159	0.4056	0.4183	0.4050	0.4274		0.42	4.0	TM	0.010
50	TM	Dimethyl phthalate		2.029	2.109	1.958	1.820	1.704	1.786	1.751	1.867		1.9	7.6	TM	0.010
51	TM	2,6-DNT		0.3694	0.4307	0.4116	0.3950	0.3774	0.3993	0.3862	0.4174		0.40	5.2	TM	0.200
52	TM	Acenaphthylene		2.451	2.526	2.367	2.208	2.068	2.179	2.098	2.258		2.3	7.3	TM	0.900
53	TM	3-Nitroaniline		0.4196	0.4633	0.4517	0.4283	0.4028	0.4262	0.4159	0.4479		0.43	4.7	TM	0.010
54	*TM	Acenaphthene		1.591	1.638	1.576	1.499	1.419	1.486	1.477	1.596		1.5	4.9	*TM	0.900
55	**TM	2,4-Dinitrophenol				0.1845	0.2153	0.2353	0.2425	0.2465	0.2783		0.23	14	**TM	0.010
56	**TM	4-Nitrophenol		0.0302	0.0313	0.0317	0.0289	0.0293	0.0286	0.0288	0.0300		0.03	4.0	**TM	0.010
57	TM	Dibenzofuran		2.389	2.469	2.286	2.127	2.007	2.077	2.046	2.198		2.2	7.6	TM	0.800
58	TM	2,4-DNT		0.5050	0.5851	0.5754	0.5578	0.5356	0.5541	0.5488	0.5907		0.56	5.0	TM	0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.5471	0.5700	0.5350	0.5169	0.4941	0.5174	0.5097	0.5556		0.53	4.8	TM	0.010
60	TM	Diethyl phthalate		2.105	2.156	2.019	1.882	1.760	1.826	1.753	1.893		1.9	8.0	TM	0.010
61	TM	4-Chlorophenyl phenyl ether		1.185	1.202	1.138	1.086	1.035	1.095	1.111	1.204		1.1	5.4	TM	0.400
62	TM	Fluorene		1.928	1.961	1.845	1.780	1.669	1.789	1.788	1.964		1.8	5.6	TM	0.900
63	TM	4-Nitroaniline		0.3477	0.4037	0.3809	0.3597	0.3349	0.3419	0.3215	0.3378		0.35	7.6	TM	0.010
64	S	2,4,6-Tribromophenol(S)		0.3381	0.2924	0.3125	0.3318	0.3505	0.3378	0.3558	0.4017		0.34	9.5	S	
65	I	Phenanthrene-D10(IS)	ISTD													
66	TM	4,6-Dinitro-2-methylphenol			0.1396	0.1560	0.1603	0.1575	0.1689	0.1678	0.1795		0.16	7.8	TM	0.010
67	TM	Diphenyl amine		0.7090	0.7163	0.6726	0.6419	0.6001	0.6393	0.6282	0.6692		0.66	6.1	TM	
68	*TM	n-Nitrosodiphenylamine		0.7090	0.7163	0.6726	0.6419	0.6001	0.6393	0.6282	0.6692		0.66	6.1	*TM	0.010
69	TM	1,2-Diphenylhydrazine		0.8628	0.8836	0.8267	0.7681	0.6971	0.7397	0.7168	0.7317		0.78	9.0	TM	
70	TM	4-Bromophenyl phenyl ether		0.3223	0.3318	0.3172	0.2962	0.2818	0.2994	0.2996	0.3232		0.31	5.5	TM	0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19 _____
Instrument: Yoda _____

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
71	TM	Hexachlorobenzene		0.3483	0.3459	0.3349	0.3175	0.3018	0.3156	0.3186	0.3416		0.33	5.2	TM		0.100
72	TM	Atrazine		0.2893	0.3002	0.2644	0.2657	0.2592	0.2597	0.2558	0.2661		0.27	5.9	TM		0.010
73	*TM	Pentachlorophenol		0.1882	0.2209	0.2259	0.2157	0.2091	0.2185	0.2228	0.2366		0.22	6.5	*TM		0.050
74	TM	Phenanthrene		1.350	1.353	1.273	1.172	1.105	1.146	1.131	1.212		1.2	8.0	TM		0.700
75	TM	Anthracene		1.348	1.385	1.329	1.225	1.145	1.187	1.183	1.257		1.3	7.0	TM		0.700
76	TM	Carbazol		1.230	1.250	1.183	1.109	1.020	1.080	1.050	1.122		1.1	7.4	TM		0.010
77	TM	Di-n-butylphthalate		1.482	1.554	1.481	1.421	1.329	1.393	1.388	1.469		1.4	4.9	TM		0.010
78	*TM	Fluoranthene		1.592	1.674	1.579	1.535	1.427	1.497	1.473	1.562		1.5	5.0	*TM		0.600
79	I	Chrysene-D12(ISTD)	ISTD														
80	TM	Benzidine				0.3887	0.3345	0.3030	0.2986	0.2766	0.2840		0.31	13	TM		
81	TM	Pyrene		1.571	1.629	1.513	1.382	1.253	1.324	1.289	1.314		1.4	10	TM		0.600
82	S	Terphenyl-D14(S)		1.086	0.9752	0.9524	0.9350	0.9151	0.9108	0.9274	0.9553		0.96	5.9	S		
83	TM	Butyl benzylphthalate		0.6252	0.6839	0.6440	0.5922	0.5377	0.5692	0.5371	0.5621		0.59	8.9	TM		0.010
84	TM	3,3'-Dichlorobenzidine		0.4984	0.5973	0.5482	0.4820	0.4530	0.4454	0.4205	0.4334		0.48	13	TM		0.010
85	TM	Benz (a) anthracene		1.692	1.752	1.626	1.467	1.353	1.432	1.401	1.471		1.5	9.6	TM		0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.9320	0.9804	0.9352	0.8519	0.7833	0.8167	0.8128	0.8340		0.87	8.2	TM		0.010
87	TM	Chrysene		1.597	1.641	1.529	1.414	1.297	1.329	1.262	1.306		1.4	10	TM		0.700
88	*TM	Di-n-octylphthalate		1.531	1.644	1.552	1.425	1.285	1.367	1.319	1.377		1.4	8.7	*TM		0.010
89	I	Perylene-D12(ISTD)	ISTD														
90	TM	Benzo (b) fluoranthene		1.556	1.552	1.422	1.417	1.320	1.445	1.323	1.590		1.5	7.2	TM		0.700
91	TM	Benzo (k) fluoranthene		1.337	1.482	1.451	1.243	1.200	1.224	1.318	1.258		1.3	8.0	TM		0.700
92	*TM	Benzo (a) pyrene	1.017	1.342	1.389	1.334	1.242	1.177	1.231	1.221	1.318		1.3	8.9	*TM		0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.631	1.701	1.604	1.507	1.422	1.479	1.464	1.572		1.5	6.1	TM		0.500
94	TM	Dibenz (a,h) anthracene	1.047	1.406	1.485	1.405	1.311	1.250	1.296	1.292	1.391		1.3	9.6	TM		0.400
95	TM	Benzo (g,h,i) perylene		1.311	1.383	1.284	1.196	1.132	1.167	1.155	1.237		1.2	7.1	TM		0.500
96																	
97																	
98																	
99																	
100																	
101																	
102																	
103																	
104																	
105																	

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y004.D Vial: 4
 Acq On : 15 Oct 19 10:16 Operator: MA,SS
 Sample : 4ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:26 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	148876	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	562736	40.00000	ppb	-0.02
41) Acenaphthene-D10 (IS)	8.97	164	347322	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	774755	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	830987	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	959834	40.00000	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount 100.000			Recovery =	0.000%		
Target Compounds						
92) Benzo (a) pyrene	15.58	252	97638	3.17215	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	100523	3.20919	ppb	97

Quantitation Report

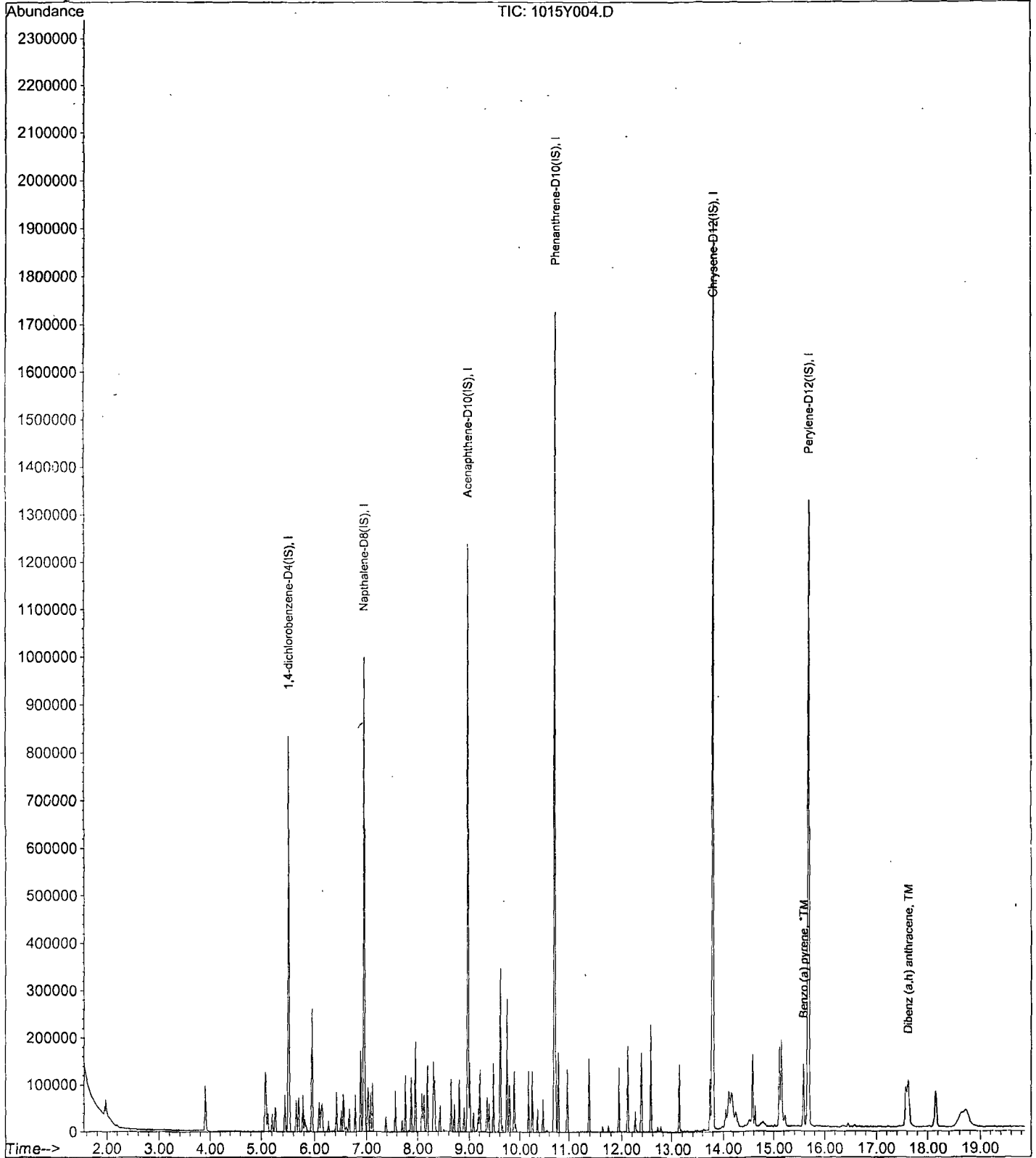
Data File : M:\YODA\DATA\Y191015\1015Y004.D
Acq On : 15 Oct 19 10:16
Sample : 4ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:26 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191015\1015Y005.D
 Acq On : 15 Oct 19 10:44
 Sample : 5ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	125780	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	490283	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	296001	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.70	188	664449	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	718467	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	819050	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.91	112	44070	9.64672	ppb	-0.01
Spiked Amount 200.000			Recovery =	4.824%		
6) Phenol-D6 (S)	5.08	99	49851	9.41136	ppb	-0.02
Spiked Amount 200.000			Recovery =	4.706%		
22) Nitrobenzene-D5 (S)	6.13	82	30306	5.19347	ppb	-0.02
Spiked Amount 100.000			Recovery =	5.193%		
46) 2-Fluorobiphenyl (S)	8.19	172	62657	5.48284	ppb	-0.01
Spiked Amount 100.000			Recovery =	5.483%		
64) 2,4,6-Tribromophenol (S)	9.89	330	25020	12.99996	ppb	-0.01
Spiked Amount 200.000			Recovery =	6.500%		
82) Terphenyl-D14 (S)	12.56	244	97550	5.47333	ppb	-0.01
Spiked Amount 100.000			Recovery =	5.473%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.74	58	555	0.85906		# 1
3) n-Nitrosodimethylamine	1.95	42	13826	8.60498	ppb	98
4) Pyridine	1.98	79	20443	5.78861	ppb	93
7) Phenol	5.09	94	32393	4.64540	ppb	93
8) Aniline	5.13	93	30194	4.57153	ppb	98
9) Bis (2-chloroethyl) ether	5.21	63	13433	4.25951	ppb	83
10) 2-Chlorophenol	5.27	128	26443	5.08768	ppb	91
11) 1,3-DCB	5.44	146	31672	5.31804	ppb	96
12) 1,4-DCB	5.53	146	32184	5.37826	ppb	99
13) Benzyl alcohol	5.66	108	15864	4.79314	ppb	96
14) 1,2-DCB	5.70	146	28971	5.15655	ppb	98
15) 2-Methylphenol	5.79	107	21159	4.88784	ppb	97
16) Bis (2-chloroisopropyl) et	5.82	45	11895	3.63749	ppb	# 70
17) Acetophenone	5.96	105	39292	5.11480	ppb	98
18) 3&4-Methylphenol	5.95	107	56230	9.95725	ppb	97
19) n-Nitrosodi-n-propylamine	5.96	70	21562	4.82234	ppb	97
20) Hexachloroethane	6.09	117	12719	5.08659	ppb	80
23) Nitrobenzene	6.15	77	31344	4.71152	ppb	98
24) Isophorone	6.42	82	54323	4.89534	ppb	98
25) 2-Nitrophenol	6.51	139	12879	5.14818	ppb	95
26) 2,4-Dimethylphenol	6.56	122	26285	5.49213	ppb	96
27) Benzoic acid	6.62	105	13522	3.83702	ppb	92
28) Bis (2-chloroethoxy) metha	6.67	93	28407	4.74921	ppb	98
29) 2,4-Dichlorophenol	6.78	162	25201	5.57992	ppb	98
30) 1,2,4-Trichlorobenzene	6.88	180	31446	5.85155	ppb	98
31) 3,4-Dimethylphenol	6.89	107	41306	5.44105	ppb	100
32) Napthalene	6.97	128	81004	5.40609	ppb	99
33) 4-Chloroaniline	7.03	127	28176	5.79244	ppb	96
34) 2,6-Dichlorophenol	7.04	162	24182	5.69182	ppb	93
35) Hexachloropropene	7.08	213	27467	5.96720	ppb	98
36) Hexachlorobutadiene	7.12	225	23180	6.00025	ppb	98
37) Caprolactum	7.39	55	6861	4.30957	ppb	89

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

Data File : M:\YODA\DATA\Y191015\1015Y005.D
 Acq On : 15 Oct 19 10:44
 Sample : 5ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.57	107	27571	5.30646	ppb	95
39) 2-Methylnaphthalene	7.76	142	54572	5.35556	ppb	96
40) 1-Methylnaphthalene	7.88	142	57069	5.47432	ppb	98
42) Hexachlorocyclopentadiene	7.96	237	26158	5.08539	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	35377	5.77521	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	22649	6.00363	ppb	96
45) 2,4,5-Trichlorophenol	8.12	196	23380	5.67614	ppb	90
47) 1,1'-Biphenyl	8.30	154	73137	5.43575	ppb	97
48) 2-Chloronaphthalene	8.33	162	62361	5.62941	ppb	96
49) 2-Nitroaniline	8.43	65	14841	4.43690	ppb	84
50) Dimethyl phthalate	8.64	163	75072	5.45637	ppb	99
51) 2,6-DNT	8.71	165	13668	4.83589	ppb	95
52) Acenaphthylene	8.80	152	90703	5.25317	ppb	99
53) 3-Nitroaniline	8.43	138	15527	4.74645	ppb	97
54) Acenaphthene	9.01	154	58861	5.22666	ppb	97
55) 2,4-Dinitrophenol	9.02	184	2792	1.93344	ppb #	88
56) 4-Nitrophenol	8.71	65	1119	4.94059	ppb #	77
57) Dibenzofuran	9.21	168	88376	5.48723	ppb	98
58) 2,4-DNT	9.18	165	18684	4.73423	ppb #	74
59) 2,3,4,6-Tetrachlorophenol	9.35	232	20242	6.18984	ppb	93
60) Diethyl phthalate	9.47	149	77897	5.51616	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.61	204	43851	5.69866	ppb	92
62) Fluorene	9.61	166	71318	5.42103	ppb	98
63) 4-Nitroaniline	8.90	138	12864	5.12621	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.66	198	8179	3.55318	ppb #	94
67) Diphenyl amine	9.74	169	117769	10.54257	ppb	99
68) n-Nitrosodiphenylamine	9.74	169	117769	10.54257	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	71660	4.63833	ppb	97
70) 4-Bromophenyl phenyl ether	10.18	248	26767	5.66909	ppb	91
71) Hexachlorobenzene	10.25	284	28929	6.02587	ppb	90
72) Atrazine	10.36	200	12013	2.75831	ppb	96
73) Pentachlorophenol	10.47	266	15634	5.29082	ppb	100
74) Phenanthrene	10.73	178	112093	5.45738	ppb	98
75) Anthracene	10.79	178	111940	5.23535	ppb	99
76) Carbazol	10.96	167	102126	5.21940	ppb	99
77) Di-n-butylphthalate	11.38	149	123075	4.92573	ppb	99
78) Fluoranthene	12.12	202	132253	5.29517	ppb	99
80) Benzidine	12.26	184	32934	6.37668	ppb	97
81) Pyrene	12.38	202	141115	5.09272	ppb	99
83) Butyl benzylphthalate	13.14	149	56151	4.61792	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	44757	5.92293	ppb	97
85) Benz (a) anthracene	13.78	228	151990	5.31434	ppb	99
86) Bis (2-ethylhexyl) phthala	13.80	149	83702	4.80446	ppb	97
87) Chrysene	13.81	228	143454	5.38938	ppb	99
88) Di-n-octylphthalate	14.57	149	137484	4.75803	ppb	95
90) Benzo (b) fluoranthene	15.10	252	159316	5.37675	ppb	98
91) Benzo (k) fluoranthene	15.14	252	136861	4.75096	ppb #	98
92) Benzo (a) pyrene	15.58	252	137424	5.23218	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.57	276	167003	5.33446	ppb	96
94) Dibenz (a,h) anthracene	17.62	278	143912	5.38410	ppb	97
95) Benzo (g,h,i) perylene	18.16	276	134201	5.37604	ppb #	94

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

Data File : M:\YODA\DATA\Y191015\1015Y006.D
 Acq On : 15 Oct 19 11:13
 Sample : 10ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	127526	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.96	136	524077	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	322778	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	727510	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	778151	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	888773	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.91	112	87955	18.98934	ppb	-0.01
Spiked Amount 200.000			Recovery =	9.495%		
6) Phenol-D6 (S)	5.08	99	99944	18.61008	ppb	-0.02
Spiked Amount 200.000			Recovery =	9.305%		
22) Nitrobenzene-D5 (S)	6.13	82	53967	8.65186	ppb	-0.02
Spiked Amount 100.000			Recovery =	8.652%		
46) 2-Fluorobiphenyl (S)	8.19	172	125790	10.09418	ppb	-0.01
Spiked Amount 100.000			Recovery =	10.094%		
64) 2,4,6-Tribromophenol (S)	9.89	330	47197	22.48840	ppb	-0.01
Spiked Amount 200.000			Recovery =	11.244%		
82) Terphenyl-D14 (S)	12.56	244	189713	9.82798	ppb	-0.01
Spiked Amount 100.000			Recovery =	9.828%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.72	58	1241	1.89460		# 1
3) n-Nitrosodimethylamine	1.94	42	24541	15.06463	ppb	85
4) Pyridine	1.97	79	47330	13.21839	ppb	92
7) Phenol	5.09	94	73621	10.41325	ppb	98
8) Aniline	5.13	93	74128	11.06970	ppb	98
9) Bis (2-chloroethyl) ether	5.20	63	29003	9.07074	ppb	94
10) 2-Chlorophenol	5.27	128	57151	10.84539	ppb	90
11) 1,3-DCB	5.44	146	66122	10.95052	ppb	98
12) 1,4-DCB	5.53	146	67999	11.20773	ppb	96
13) Benzyl alcohol	5.66	108	35407	10.55138	ppb	96
14) 1,2-DCB	5.70	146	64056	11.24523	ppb	98
15) 2-Methylphenol	5.79	107	47858	10.90409	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	25951	7.82716	ppb	# 73
17) Acetophenone	5.96	105	85976	11.03861	ppb	95
18) 3&4-Methylphenol	5.95	107	126289	22.05718	ppb	98
19) n-Nitrosodi-n-propylamine	5.96	70	45206	9.97189	ppb	99
20) Hexachloroethane	6.09	117	27412	10.81253	ppb	84
23) Nitrobenzene	6.15	77	71970	10.12069	ppb	98
24) Isophorone	6.43	82	119370	10.06344	ppb	92
25) 2-Nitrophenol	6.51	139	30446	11.38555	ppb	94
26) 2,4-Dimethylphenol	6.56	122	55581	10.86453	ppb	95
27) Benzoic acid	6.61	105	39322	10.43857	ppb	94
28) Bis (2-chloroethoxy) metha	6.67	93	63713	9.96497	ppb	99
29) 2,4-Dichlorophenol	6.78	162	56131	11.62692	ppb	97
30) 1,2,4-Trichlorobenzene	6.88	180	68203	11.87300	ppb	99
31) 3,4-Dimethylphenol	6.89	107	90914	11.20346	ppb	98
32) Napthalene	6.97	128	175795	10.97578	ppb	99
33) 4-Chloroaniline	7.03	127	70488	13.55654	ppb	95
34) 2,6-Dichlorophenol	7.04	162	53279	11.73186	ppb	96
35) Hexachloropropene	7.09	213	63441	12.89381	ppb	99
36) Hexachlorobutadiene	7.12	225	52518	12.71791	ppb	98
37) Caprolactum	7.41	55	14993	8.81021	ppb	# 71

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

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y006.D
 Acq On : 15 Oct 19 11:13
 Sample : 10ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.57	107	61640	11.09857	ppb	95
39) 2-Methylnaphthalene	7.76	142	121993	11.20010	ppb	98
40) 1-Methylnaphthalene	7.88	142	124975	11.21515	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	64249	11.45449	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	78680	11.77878	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	49575	12.05083	ppb	96
45) 2,4,5-Trichlorophenol	8.13	196	53974	12.01662	ppb	93
47) 1,1'-Biphenyl	8.30	154	160472	10.93732	ppb	97
48) 2-Chloronaphthalene	8.33	162	135696	11.23327	ppb	96
49) 2-Nitroaniline	8.43	65	36316	9.95644	ppb	91
50) Dimethyl phthalate	8.65	163	170210	11.34489	ppb	98
51) 2,6-DNT	8.72	165	34756	11.27691	ppb #	77
52) Acenaphthylene	8.80	152	203801	10.82419	ppb	99
53) 3-Nitroaniline	8.43	138	37383	10.47961	ppb	92
54) Acenaphthene	9.01	154	132166	10.76231	ppb	100
55) 2,4-Dinitrophenol	9.03	184	11664	7.40715	ppb	99
56) 4-Nitrophenol	8.71	65	2528	10.23564	ppb #	77
57) Dibenzofuran	9.21	168	199199	11.34215	ppb	96
58) 2,4-DNT	9.18	165	47211	10.97014	ppb	81
59) 2,3,4,6-Tetrachlorophenol	9.35	232	45992	12.89727	ppb	97
60) Diethyl phthalate	9.47	149	173952	11.29626	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	96965	11.55573	ppb	95
62) Fluorene	9.61	166	158228	11.02949	ppb	99
63) 4-Nitroaniline	8.91	138	32574	11.90367	ppb	90
66) 4,6-Dinitro-2-methylphenol	9.66	198	25382	10.07085	ppb #	97
67) Diphenyl amine	9.74	169	260549	21.30235	ppb	100
68) n-Nitrosodiphenylamine	9.74	169	260549	21.30235	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	160706	9.50034	ppb #	89
70) 4-Bromophenyl phenyl ether	10.18	248	60350	11.67384	ppb #	87
71) Hexachlorobenzene	10.25	284	62905	11.96724	ppb	90
72) Atrazine	10.36	200	27297	5.72439	ppb	94
73) Pentachlorophenol	10.47	266	40180	12.41898	ppb	97
74) Phenanthrene	10.73	178	246122	10.94406	ppb	100
75) Anthracene	10.79	178	251830	10.75699	ppb	100
76) Carbazol	10.97	167	227256	10.60772	ppb	99
77) Di-n-butylphthalate	11.38	149	282578	10.32908	ppb	100
78) Fluoranthene	12.12	202	304470	11.13375	ppb	98
80) Benzidine	12.26	184	86096	15.39133	ppb	97
81) Pyrene	12.39	202	316883	10.55889	ppb	99
83) Butyl benzylphthalate	13.14	149	133044	10.10247	ppb	92
84) 3,3'-Dichlorobenzidine	13.74	252	116207	14.19877	ppb	99
85) Benz (a) anthracene	13.78	228	340838	11.00335	ppb	100
86) Bis (2-ethylhexyl) phthala	13.81	149	190732	10.10823	ppb #	97
87) Chrysene	13.81	228	319183	11.07156	ppb	99
88) Di-n-octylphthalate	14.58	149	319770	10.21775	ppb	95
90) Benzo (b) fluoranthene	15.10	252	344891	10.72659	ppb	99
91) Benzo (k) fluoranthene	15.14	252	329300	10.53449	ppb	97
92) Benzo (a) pyrene	15.58	252	308623	10.82849	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.58	276	378000	11.12699	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	329999	11.37754	ppb	96
95) Benzo (g,h,i) perylene	18.16	276	307206	11.34112	ppb	94

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

Quantitation Report

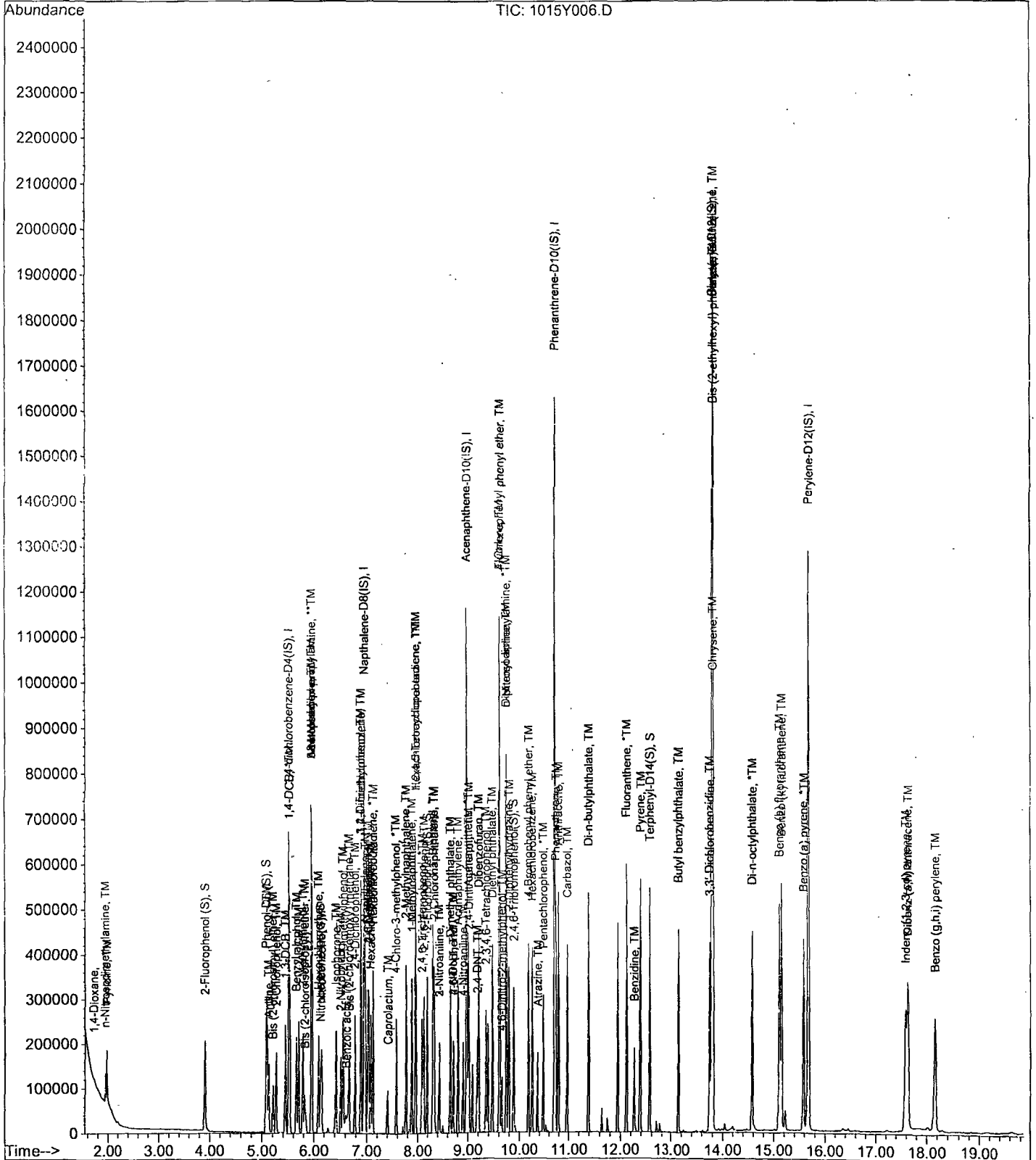
Data File : M:\YODA\DATA\Y191015\1015Y006.D
Acq On : 15 Oct 19 11:13
Sample : 10ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	115278	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	458250	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	287473	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	644340	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	705551	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	790264	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.91	112	150641	35.97864	ppb	-0.01
Spiked Amount 200.000			Recovery =	17.990%		
6) Phenol-D6 (S)	5.08	99	170369	35.09412	ppb	-0.02
Spiked Amount 200.000			Recovery =	17.547%		
22) Nitrobenzene-D5 (S)	6.13	82	93094	17.06850	ppb	-0.02
Spiked Amount 100.000			Recovery =	17.068%		
46) 2-Fluorobiphenyl (S)	8.19	172	218654	19.70105	ppb	-0.01
Spiked Amount 100.000			Recovery =	19.701%		
64) 2,4,6-Tribromophenol (S)	9.89	330	89848	48.06837	ppb	-0.01
Spiked Amount 200.000			Recovery =	24.034%		
82) Terphenyl-D14 (S)	12.56	244	335983	19.19641	ppb	-0.01
Spiked Amount 100.000			Recovery =	19.196%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	1552m	2.62113		1
3) n-Nitrosodimethylamine	1.95	42	41634	28.27266	ppb	91
4) Pyridine	1.97	79	83087	25.67010	ppb	94
7) Phenol	5.10	94	120355	18.83219	ppb	96
8) Aniline	5.13	93	125385	20.71340	ppb	99
9) Bis (2-chloroethyl) ether	5.21	63	48638	16.82781	ppb	86
10) 2-Chlorophenol	5.27	128	96572	20.27333	ppb	93
11) 1,3-DCB	5.44	146	113038	20.70930	ppb	96
12) 1,4-DCB	5.54	146	113636	20.71969	ppb	98
13) Benzyl alcohol	5.67	108	58684	19.34604	ppb	97
14) 1,2-DCB	5.70	146	107822	20.93959	ppb	99
15) 2-Methylphenol	5.79	107	79511	20.04077	ppb	100
16) Bis (2-chloroisopropyl) et	5.82	45	41909	13.98330	ppb	# 73
17) Acetophenone	5.96	105	144999	20.59466	ppb	85
18) 3&4-Methylphenol	5.96	107	208648	40.31354	ppb	96
19) n-Nitrosodi-n-propylamine	5.96	70	76656	18.70595	ppb	93
20) Hexachloroethane	6.09	117	47422	20.69277	ppb	87
23) Nitrobenzene	6.16	77	120584	19.39283	ppb	95
24) Isophorone	6.43	82	198305	19.11954	ppb	94
25) 2-Nitrophenol	6.51	139	51151	21.87613	ppb	88
26) 2,4-Dimethylphenol	6.56	122	87614	19.58623	ppb	98
27) Benzoic acid	6.64	105	77149	23.42223	ppb	93
28) Bis (2-chloroethoxy) metha	6.67	93	105175	18.81278	ppb	99
29) 2,4-Dichlorophenol	6.78	162	93945	22.25503	ppb	95
30) 1,2,4-Trichlorobenzene	6.89	180	113715	22.63953	ppb	98
31) 3,4-Dimethylphenol	6.89	107	149420	21.05827	ppb	100
32) Napthalene	6.98	128	290908	20.77195	ppb	99
33) 4-Chloroaniline	7.03	127	120084	26.41262	ppb	97
34) 2,6-Dichlorophenol	7.04	162	90434	22.77379	ppb	97
35) Hexachloropropene	7.09	213	106565	24.76957	ppb	99
36) Hexachlorobutadiene	7.12	225	88012	24.37485	ppb	99
37) Caprolactum	7.42	55	26202	17.60860	ppb	# 86

(#) = qualifier out of range (m) = manual integration
 1015Y007.D Y1015NC.M Wed Oct 16 09:18:39 2019

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	102953	21.20001	ppb	98
39) 2-Methylnaphthalene	7.76	142	202991	21.31358	ppb	100
40) 1-Methylnaphthalene	7.88	142	208772	21.42627	ppb	98
42) Hexachlorocyclopentadiene	7.96	237	110595	22.13868	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	130344	21.90957	ppb	100
44) 2,4,6-Trichlorophenol	8.09	196	84220	22.98668	ppb	98
45) 2,4,5-Trichlorophenol	8.13	196	91821	22.95339	ppb	95
47) 1,1'-Biphenyl	8.30	154	266580	20.40075	ppb	97
48) 2-Chloronaphthalene	8.33	162	221906	20.62600	ppb	98
49) 2-Nitroaniline	8.43	65	62388	19.20498	ppb	93
50) Dimethyl phthalate	8.66	163	281369	21.05709	ppb	99
51) 2,6-DNT	8.72	165	59168	21.55531	ppb	85
52) Acenaphthylene	8.80	152	340237	20.28979	ppb	100
53) 3-Nitroaniline	8.43	138	64925	20.43571	ppb	92
54) Acenaphthene	9.01	154	226545	20.71319	ppb	100
55) 2,4-Dinitrophenol	9.03	184	26523	18.91182	ppb	92
56) 4-Nitrophenol	8.72	65	4558	20.72139	ppb	# 89
57) Dibenzofuran	9.21	168	328567	21.00579	ppb	98
58) 2,4-DNT	9.18	165	82706	21.57809	ppb	86
59) 2,3,4,6-Tetrachlorophenol	9.35	232	76899	24.21268	ppb	97
60) Diethyl phthalate	9.48	149	290167	21.15730	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.61	204	163558	21.88573	ppb	96
62) Fluorene	9.61	166	265249	20.76026	ppb	99
63) 4-Nitroaniline	8.91	138	54752	22.46552	ppb	86
66) 4,6-Dinitro-2-methylphenol	9.66	198	50274	22.52203	ppb	# 93
67) Diphenyl amine	9.75	169	433385	40.00699	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	433385	40.00699	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	266333	17.77690	ppb	# 90
70) 4-Bromophenyl phenyl ether	10.18	248	102203	22.32153	ppb	# 86
71) Hexachlorobenzene	10.25	284	107886	23.17383	ppb	93
72) Atrazine	10.36	200	42593	10.08502	ppb	96
73) Pentachlorophenol	10.47	266	72764	25.39314	ppb	96
74) Phenanthrene	10.73	178	410238	20.59623	ppb	99
75) Anthracene	10.79	178	428215	20.65233	ppb	99
76) Carbazol	10.98	167	381228	20.09164	ppb	98
77) Di-n-butylphthalate	11.38	149	477185	19.69400	ppb	100
78) Fluoranthene	12.12	202	508599	20.99890	ppb	98
80) Benzidine	12.27	184	137122	27.03559	ppb	99
81) Pyrene	12.39	202	533735	19.61465	ppb	99
83) Butyl benzylphthalate	13.14	149	227189	19.02633	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	193408	26.06323	ppb	97
85) Benz (a) anthracene	13.78	228	573739	20.42805	ppb	100
86) Bis (2-ethylhexyl) phthala	13.81	149	329899	19.28272	ppb	98
87) Chrysene	13.82	228	539268	20.63047	ppb	99
88) Di-n-octylphthalate	14.58	149	547403	19.29125	ppb	95
90) Benzo (b) fluoranthene	15.11	252	561796	19.65066	ppb	98
91) Benzo (k) fluoranthene	15.14	252	573214	20.62325	ppb	99
92) Benzo (a) pyrene	15.58	252	527013	20.79599	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.59	276	633749	20.98079	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	555119	21.52486	ppb	97
95) Benzo (g,h,i) perylene	18.17	276	507253	21.06055	ppb	95

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

1015Y007.D Y1015NC.M

Wed Oct 16 09:18:40 2019

Quantitation Report

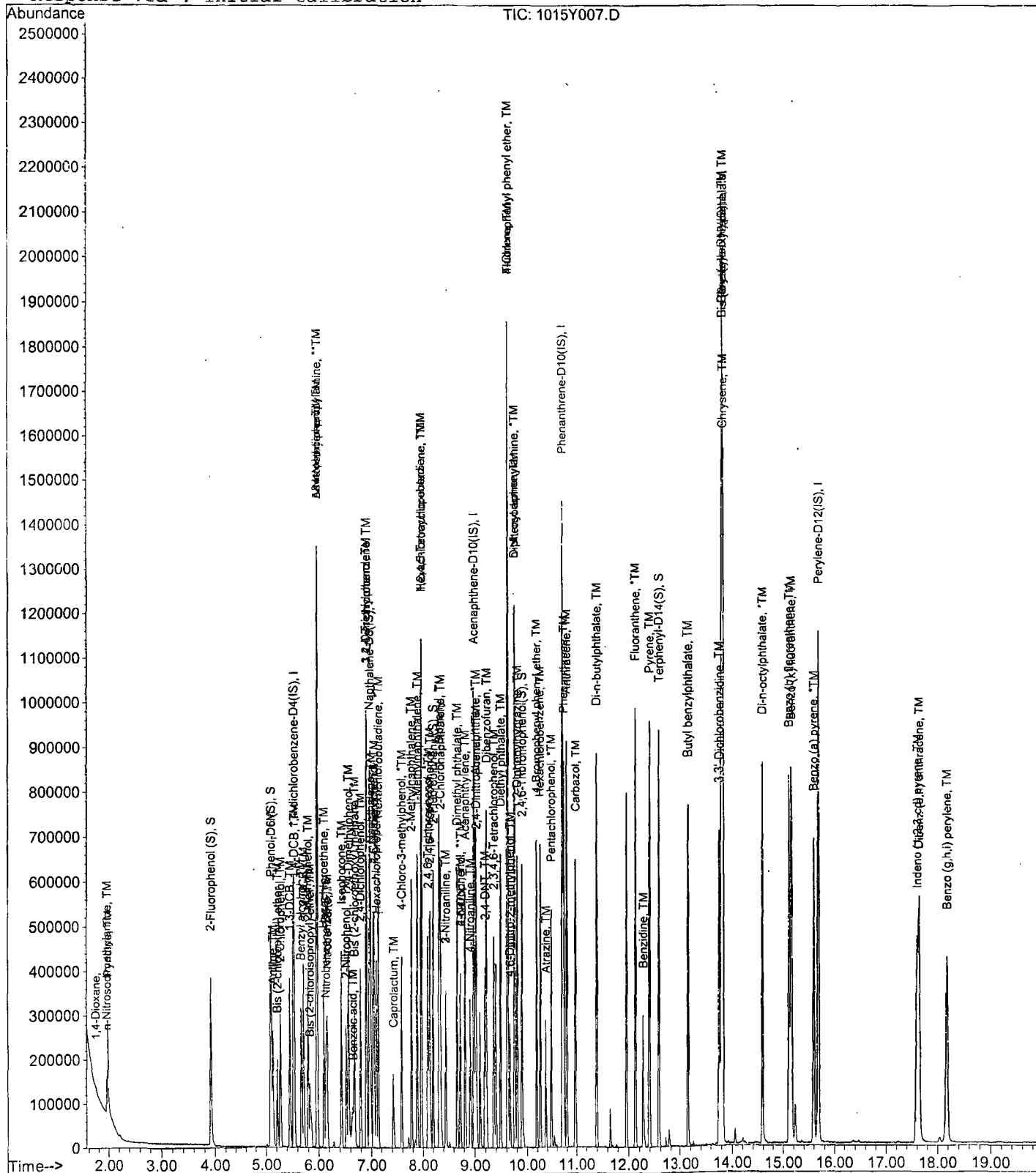
Data File : M:\YODA\DATA\Y191015\1015Y007.D
Acq On : 15 Oct 19 11:41
Sample : 20ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration

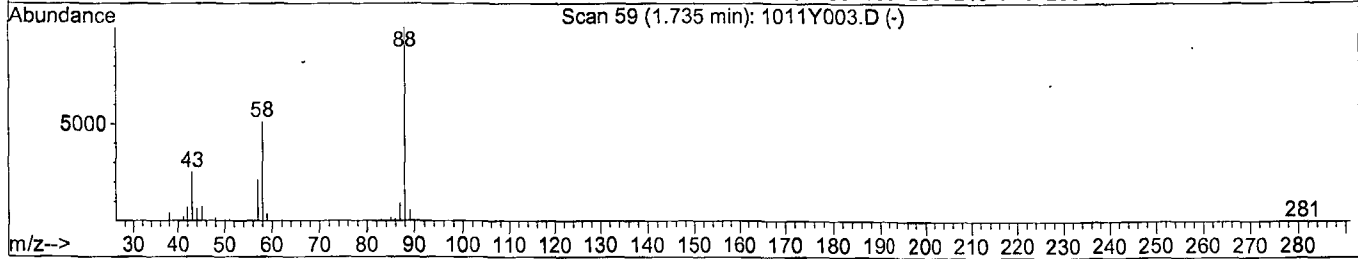
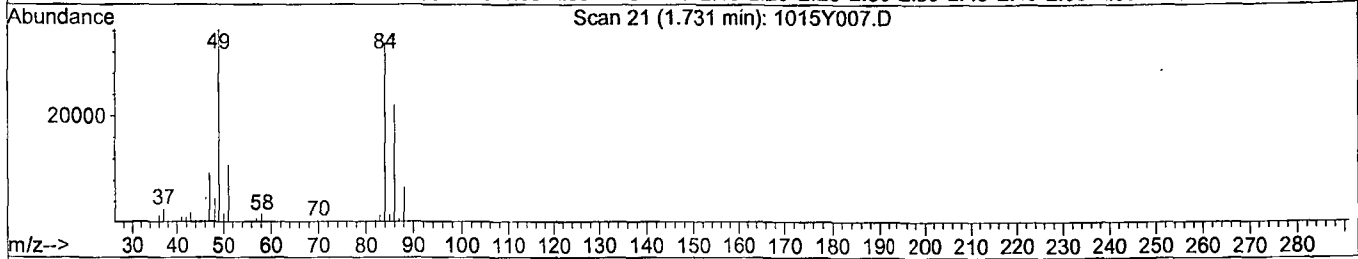
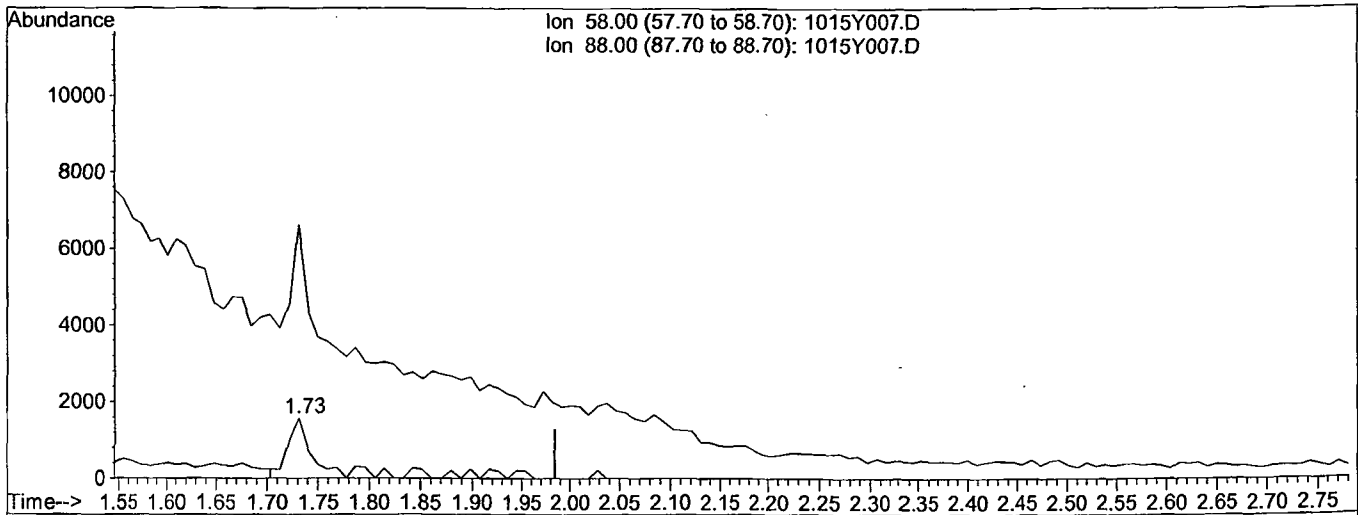


Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 14:25 2019

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y007.D

(2) 1,4-Dioxane

1.73min 4.1665

response 2467

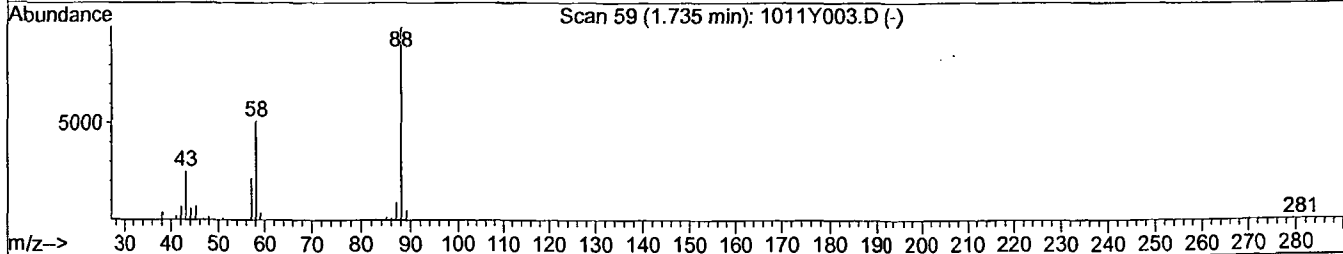
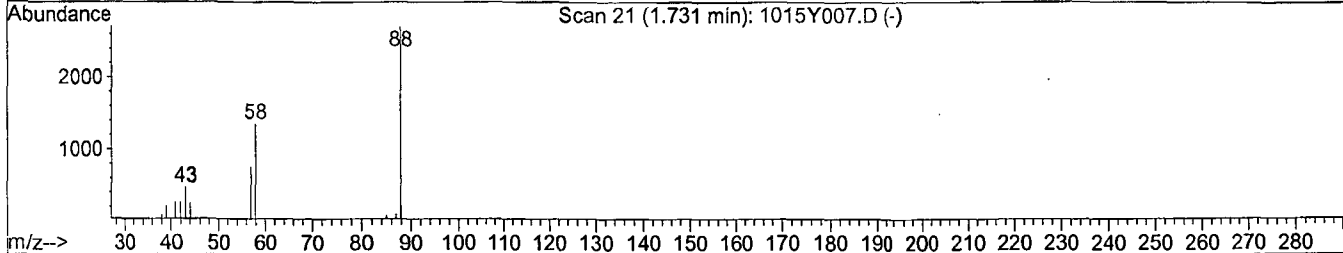
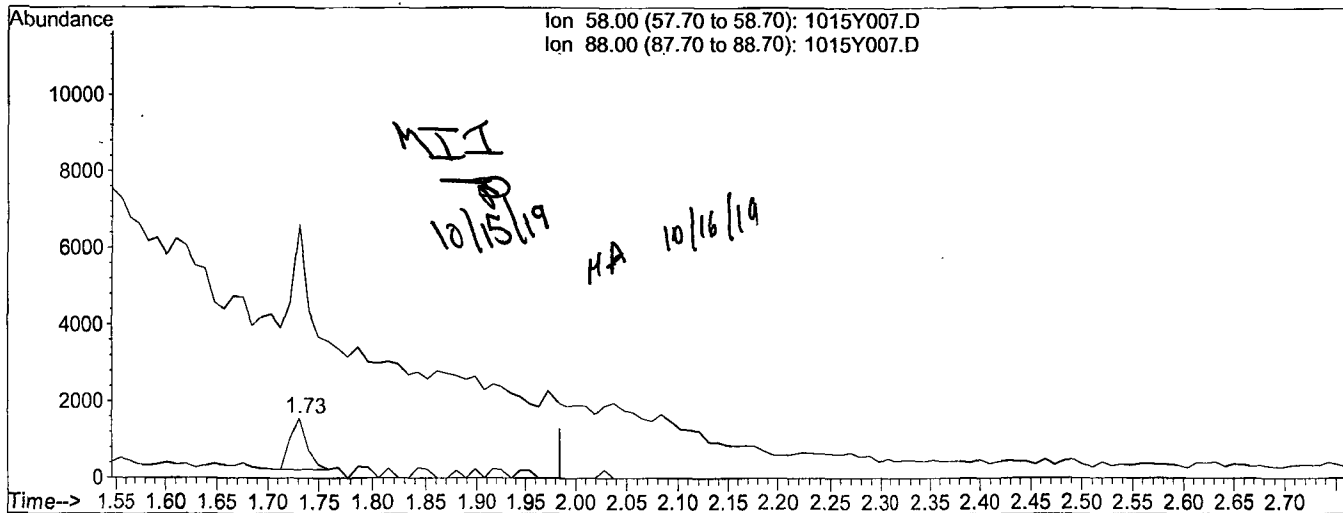
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	384.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 15:28 2019

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y007.D

(2) 1,4-Dioxane
 1.73min 2.6211 m
 response 1552

Ion	Exp%	Act%
58.00	100	100
88.00	203.60	610.63#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y191015\1015Y008.D Vial: 8
 Acq On : 15 Oct 19 12:09 Operator: MA,SS
 Sample : 40ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 15:26 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	117216	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	466409	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.98	164	287660	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	642519	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.80	240	741173	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	813465	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.91	112	308849	72.54498	ppb	-0.01
Spiked Amount 200.000			Recovery =	36.273%		
6) Phenol-D6 (S)	5.09	99	350386	70.98231	ppb	-0.01
Spiked Amount 200.000			Recovery =	35.491%		
22) Nitrobenzene-D5 (S)	6.14	82	194780	35.08759	ppb	-0.01
Spiked Amount 100.000			Recovery =	35.088%		
46) 2-Fluorobiphenyl (S)	8.19	172	436309	39.28652	ppb	-0.01
Spiked Amount 100.000			Recovery =	39.287%		
64) 2,4,6-Tribromophenol (S)	9.90	330	190899	102.06392	ppb	0.00
Spiked Amount 200.000			Recovery =	51.032%		
82) Terphenyl-D14 (S)	12.56	244	692991	37.69112	ppb	-0.01
Spiked Amount 100.000			Recovery =	37.691%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.72	58	3548m	5.89306		1
3) n-Nitrosodimethylamine	1.95	42	81275	54.27941	ppb	92
4) Pyridine	1.97	79	152812	46.43136	ppb	91
7) Phenol	5.11	94	228718	35.19627	ppb	96
8) Aniline	5.13	93	237728	38.62298	ppb	97
9) Bis (2-chloroethyl) ether	5.21	63	90178	30.68400	ppb	88
10) 2-Chlorophenol	5.27	128	185853	38.37098	ppb	94
11) 1,3-DCB	5.45	146	218760	39.41563	ppb	99
12) 1,4-DCB	5.54	146	219609	39.38011	ppb	99
13) Benzyl alcohol	5.67	108	110827	35.93168	ppb	98
14) 1,2-DCB	5.70	146	204401	39.03942	ppb	98
15) 2-Methylphenol	5.79	107	148616	36.83938	ppb	97
16) Bis (2-chloroisopropyl) et	5.83	45	78752	25.84184	ppb	# 74
17) Acetophenone	5.96	105	273270	38.17166	ppb	# 65
18) 3&4-Methylphenol	5.96	107	394090	74.88445	ppb	99
19) n-Nitrosodi-n-propylamine	5.97	70	144807	34.75223	ppb	97
20) Hexachloroethane	6.09	117	90736	38.93838	ppb	87
23) Nitrobenzene	6.16	77	229044	36.19144	ppb	98
24) Isophorone	6.43	82	371165	35.15979	ppb	96
25) 2-Nitrophenol	6.52	139	101255	42.54694	ppb	96
26) 2,4-Dimethylphenol	6.56	122	166200	36.50428	ppb	97
27) Benzoic acid	6.67	105	161529	48.18191	ppb	94
28) Bis (2-chloroethoxy) metha	6.67	93	194201	34.12931	ppb	99
29) 2,4-Dichlorophenol	6.79	162	174193	40.54346	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	214982	42.05206	ppb	98
31) 3,4-Dimethylphenol	6.90	107	281110	38.92474	ppb	98
32) Napthalene	6.98	128	540746	37.93590	ppb	100
33) 4-Chloroaniline	7.03	127	216051	46.68939	ppb	98
34) 2,6-Dichlorophenol	7.04	162	169930	42.04449	ppb	97
35) Hexachloropropene	7.09	213	207674	47.42655	ppb	100
36) Hexachlorotadiene	7.12	225	169961	46.24715	ppb	98
37) Caprolactum	7.44	55	47954	31.66291	ppb	86

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

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:26 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	192008	38.84651	ppb	97
39) 2-Methylnaphthalene	7.77	142	380008	39.20197	ppb	99
40) 1-Methylnaphthalene	7.89	142	391174	39.44391	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	223025	44.61567	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	251425	42.23465	ppb	100
44) 2,4,6-Trichlorophenol	8.09	196	155190	42.32942	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	174730	43.65056	ppb #	88
47) 1,1'-Biphenyl	8.30	154	494695	37.83325	ppb	97
48) 2-Chloronaphthalene	8.33	162	419146	38.93399	ppb	99
49) 2-Nitroaniline	8.43	65	119625	36.80039	ppb	98
50) Dimethyl phthalate	8.66	163	523475	39.15035	ppb	99
51) 2,6-DNT	8.72	165	113631	41.36964	ppb	100
52) Acenaphthylene	8.81	152	635166	37.85304	ppb	100
53) 3-Nitroaniline	8.44	138	123191	38.75024	ppb	97
54) Acenaphthene	9.02	154	431151	39.39485	ppb	99
55) 2,4-Dinitrophenol	9.04	184	61929	44.12881	ppb	99
56) 4-Nitrophenol	8.72	65	8323	37.81308	ppb #	93
57) Dibenzofuran	9.21	168	611903	39.09447	ppb	100
58) 2,4-DNT	9.19	165	160443	41.83254	ppb	98
59) 2,3,4,6-Tetrachlorophenol	9.35	232	148677	46.78252	ppb	98
60) Diethyl phthalate	9.48	149	541476	39.45563	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	312493	41.78757	ppb	98
62) Fluorene	9.61	166	511955	40.04317	ppb	100
63) 4-Nitroaniline	8.92	138	103468	42.42679	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.67	198	102969	46.25936	ppb #	100
67) Diphenyl amine	9.75	169	824924	76.36688	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	824924	76.36688	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	493510	33.03362	ppb	91
70) 4-Bromophenyl phenyl ether	10.19	248	190331	41.68683	ppb	97
71) Hexachlorobenzene	10.26	284	204012	43.94582	ppb #	78
72) Atrazine	10.36	200	85374	20.27184	ppb	99
73) Pentachlorophenol	10.48	266	138582	48.49933	ppb	97
74) Phenanthrene	10.74	178	753079	37.91592	ppb	99
75) Anthracene	10.79	178	787169	38.07187	ppb	100
76) Carbazol	10.98	167	712762	37.67075	ppb	99
77) Di-n-butylphthalate	11.38	149	913019	37.78818	ppb	100
78) Fluoranthene	12.12	202	986038	40.82665	ppb	98
80) Benzidine	12.27	184	247930	46.53360	ppb	98
81) Pyrene	12.39	202	1024427	35.83808	ppb	99
83) Butyl benzylphthalate	13.14	149	438910	34.99066	ppb	95
84) 3,3'-Dichlorobenzidine	13.74	252	357238	45.82688	ppb	98
85) Benz (a) anthracene	13.78	228	1087371	36.85522	ppb	99
86) Bis (2-ethylhexyl) phthala	13.81	149	631411	35.13243	ppb	98
87) Chrysene	13.83	228	1048016	38.16641	ppb	98
88) Di-n-octylphthalate	14.58	149	1056163	35.43178	ppb	95
90) Benzo (b) fluoranthene	15.12	252	1152337	39.15717	ppb	98
91) Benzo (k) fluoranthene	15.15	252	1011279	35.34636	ppb	98
92) Benzo (a) pyrene	15.59	252	1009951	38.71612	ppb #	98
93) Indeno (1,2,3-cd) pyrene	17.60	276	1225883	39.42638	ppb	97
94) Dibenz (a,h) anthracene	17.64	278	1066708	40.18215	ppb	97
95) Benzo (g,h,i) perylene	18.19	276	972555	39.22767	ppb #	95

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

1015Y008.D Y1015NC.M

Wed Oct 16 09:18:44 2019

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Page 2

Quantitation Report

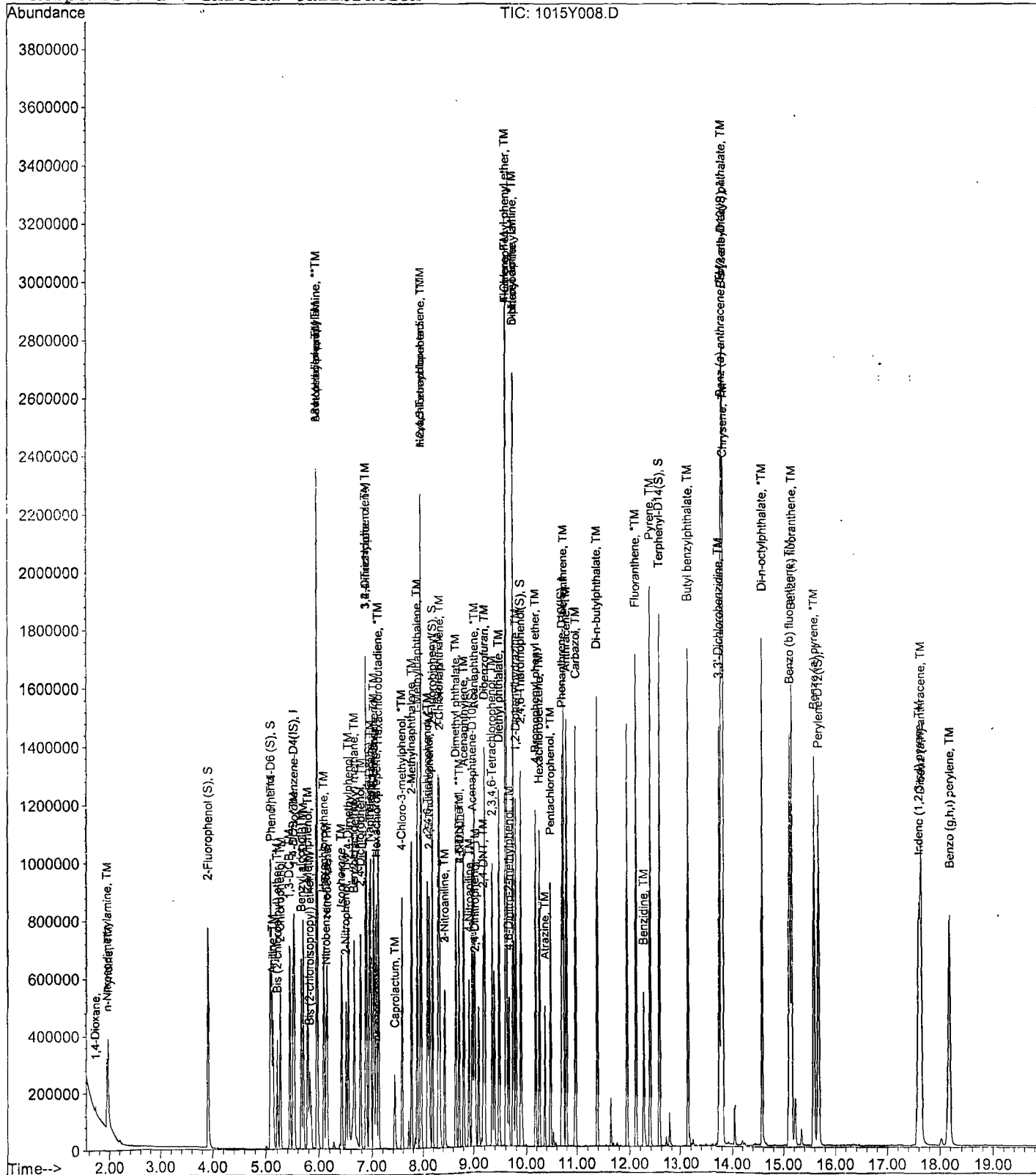
Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:26 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration

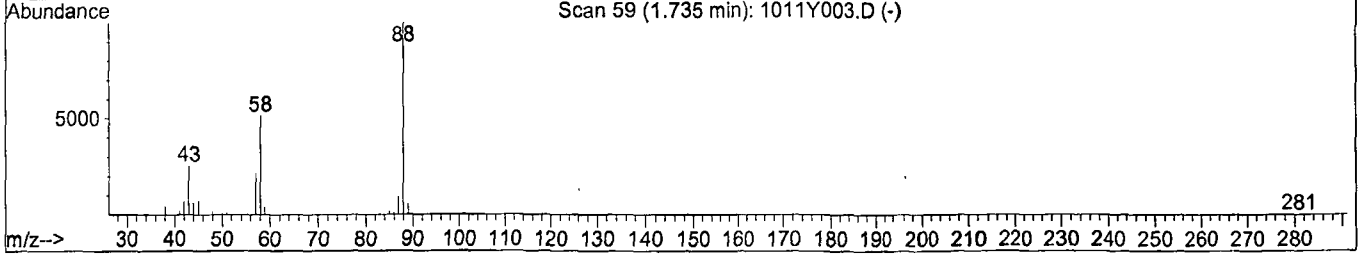
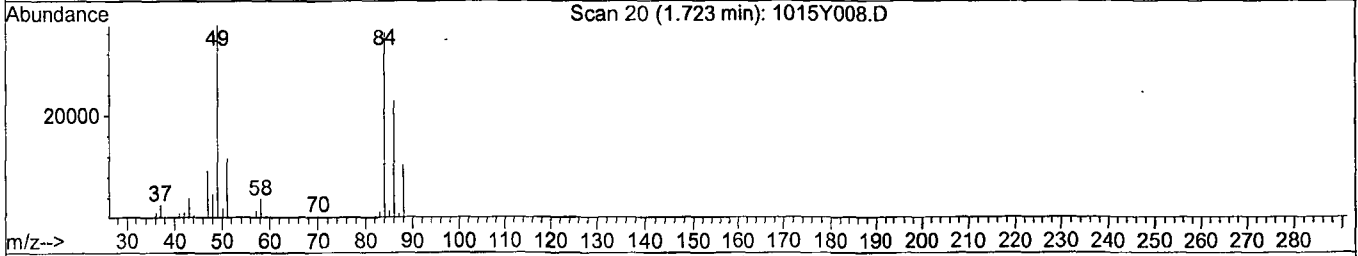
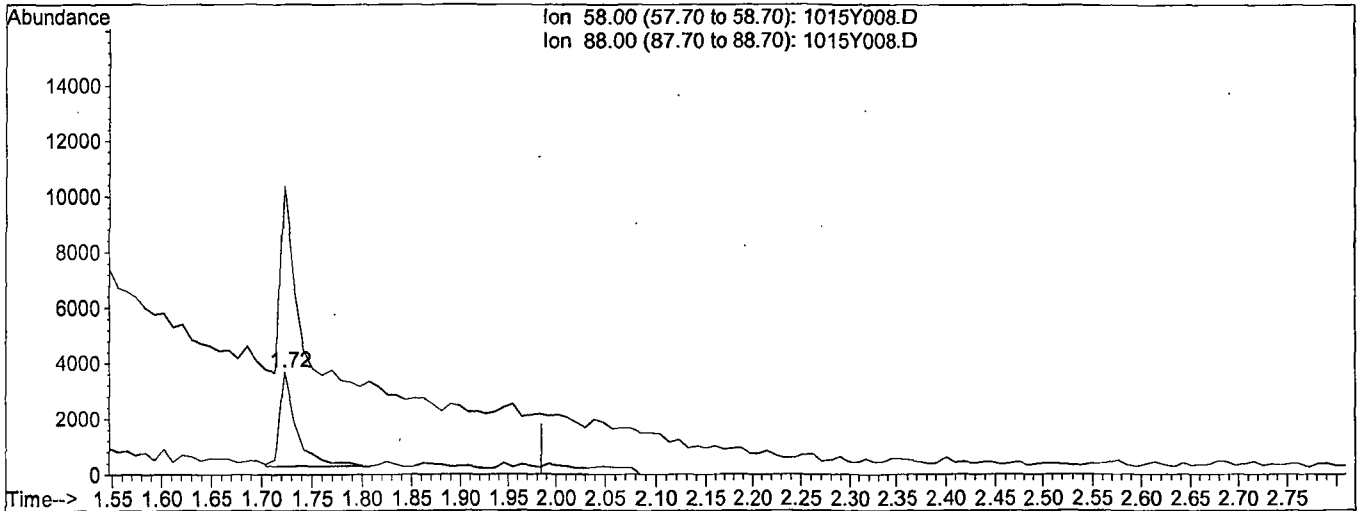


Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 14:25 2019

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y008.D

(2) 1,4-Dioxane

1.72min 6.4295

response 3871

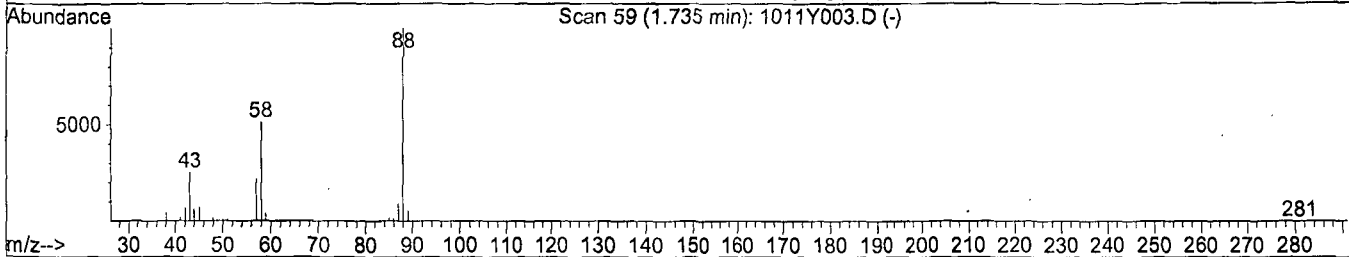
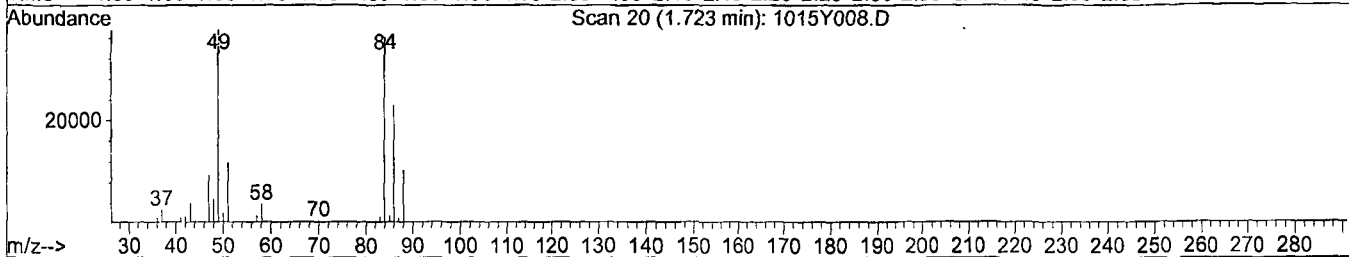
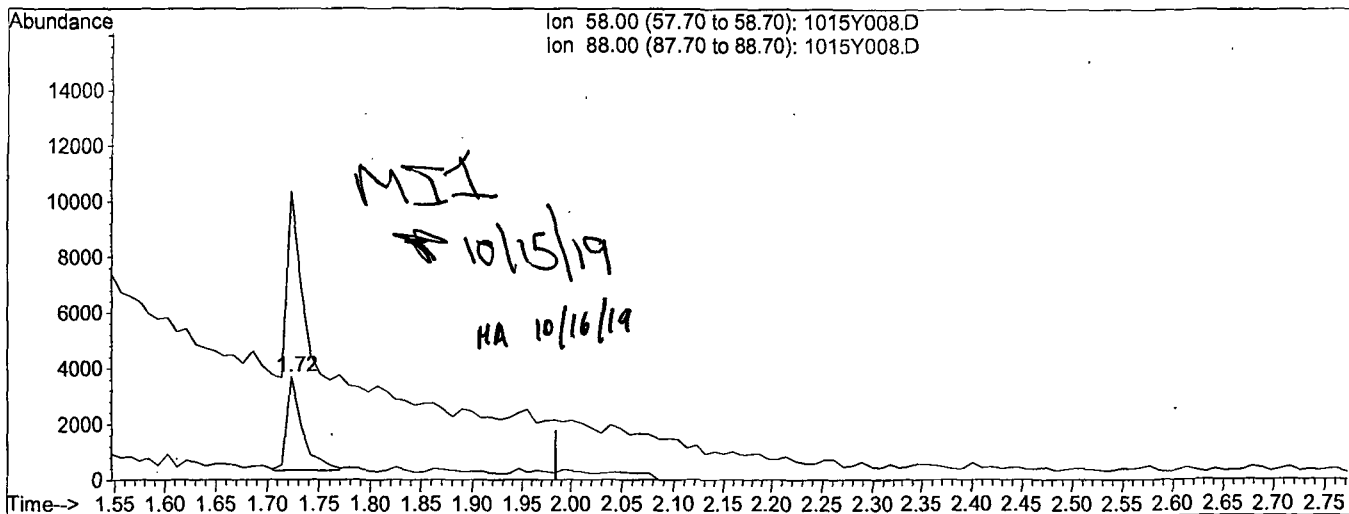
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	409.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 15:26 2019

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y008.D

(2) 1,4-Dioxane

1.72min 5.8931 m

response 3548

Ion	Exp%	Act%
58.00	100	100
88.00	203.60	446.82#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y191015\1015Y009.D
 Acq On : 15 Oct 19 12:38
 Sample : 60ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	108401	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	433475	40.00000	ppb	-0.02
41) Acenaphthene-D10 (IS)	8.98	164	274601	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	619080	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	732366	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.68	264	770489	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.92	112	428974	108.95464	ppb	0.00
Spiked Amount 200.000			Recovery =	54.478%		
6) Phenol-D6 (S)	5.10	99	485010	106.24480	ppb	0.00
Spiked Amount 200.000			Recovery =	53.123%		
22) Nitrobenzene-D5 (S)	6.14	82	276054	53.50644	ppb	-0.02
Spiked Amount 100.000			Recovery =	53.506%		
46) 2-Fluorobiphenyl (S)	8.20	172	598118	56.41748	ppb	0.00
Spiked Amount 100.000			Recovery =	56.417%		
64) 2,4,6-Tribromophenol (S)	9.90	330	278286	155.86094	ppb	0.00
Spiked Amount 200.000			Recovery =	77.930%		
82) Terphenyl-D14 (S)	12.57	244	1000601	55.07618	ppb	0.00
Spiked Amount 100.000			Recovery =	55.076%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	4874	8.75379		80
3) n-Nitrosodimethylamine	1.95	42	108554	78.39305	ppb	97
4) Pyridine	1.97	79	230970	75.88626	ppb	99
7) Phenol	5.12	94	316443	52.65570	ppb	99
8) Aniline	5.13	93	334743	58.80720	ppb	99
9) Bis (2-chloroethyl) ether	5.22	63	127202	46.80141	ppb	90
10) 2-Chlorophenol	5.27	128	254292	56.77010	ppb	93
11) 1,3-DCB	5.45	146	304560	59.33720	ppb	98
12) 1,4-DCB	5.53	146	308708	59.85884	ppb	99
13) Benzyl alcohol	5.67	108	154767	54.25802	ppb	98
14) 1,2-DCB	5.71	146	283409	58.53122	ppb	97
15) 2-Methylphenol	5.79	107	204508	54.81642	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	108189	38.38828	ppb	# 80
17) Acetophenone	5.97	105	380171	57.42245	ppb	# 73
18) 3&4-Methylphenol	5.97	107	551606	113.33885	ppb	98
19) n-Nitrosodi-n-propylamine	5.98	70	198288	51.45684	ppb	95
20) Hexachloroethane	6.09	117	126765	58.82355	ppb	99
23) Nitrobenzene	6.17	77	316466	53.80429	ppb	95
24) Isophorone	6.44	82	507694	51.74688	ppb	# 90
25) 2-Nitrophenol	6.52	139	141895	64.15371	ppb	89
26) 2,4-Dimethylphenol	6.56	122	224671	53.09611	ppb	95
27) Benzoic acid	6.69	105	237364	76.18181	ppb	99
28) Bis (2-chloroethoxy) metha	6.68	93	272782	51.58157	ppb	99
29) 2,4-Dichlorophenol	6.80	162	243318	60.93505	ppb	96
30) 1,2,4-Trichlorobenzene	6.89	180	299719	63.08155	ppb	97
31) 3,4-Dimethylphenol	6.90	107	391994	58.40254	ppb	100
32) Napthalene	6.98	128	759492	57.33016	ppb	100
33) 4-Chloroaniline	7.04	127	292321	67.97119	ppb	97
34) 2,6-Dichlorophenol	7.05	162	235082	62.58371	ppb	98
35) Hexachloropropene	7.08	213	292346	71.83556	ppb	98
36) Hexachlorobutadiene	7.13	225	234810	68.74722	ppb	99
37) Caprolactum	7.46	55	66588	47.30694	ppb	85

(#) = qualifier out of range (m) = manual integration
 1015Y009.D Y1015NC.M Wed Oct 16 09:18:48 2019

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y009.D
 Acq On : 15 Oct 19 12:38
 Sample : 60ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	269003	58.55886	ppb	99
39) 2-Methylnaphthalene	7.77	142	525477	58.32728	ppb	98
40) 1-Methylnaphthalene	7.88	142	543796	58.99957	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	318366	66.71721	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	361723	63.65227	ppb	98
44) 2,4,6-Trichlorophenol	8.10	196	222087	63.45694	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	240688	62.98746	ppb	95
47) 1,1'-Biphenyl	8.31	154	699730	56.05882	ppb #	97
48) 2-Chloronaphthalene	8.34	162	586851	57.10429	ppb	97
49) 2-Nitroaniline	8.44	65	172304	55.52686	ppb	95
50) Dimethyl phthalate	8.66	163	735831	57.64944	ppb	99
51) 2,6-DNT	8.73	165	164459	62.72200	ppb	89
52) Acenaphthylene	8.81	152	897604	56.03710	ppb	100
53) 3-Nitroaniline	8.44	138	175561	57.84965	ppb #	91
54) Acenaphthene	9.01	154	611896	58.56862	ppb	99
55) 2,4-Dinitrophenol	9.04	184	99899	74.57043	ppb	95
56) 4-Nitrophenol	8.73	65	11763	55.98319	ppb	97
57) Dibenzofuran	9.22	168	855322	57.24529	ppb	97
58) 2,4-DNT	9.19	165	228249	62.34186	ppb	95
59) 2,3,4,6-Tetrachlorophenol	9.36	232	213127	70.25151	ppb	96
60) Diethyl phthalate	9.49	149	751933	57.39661	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.62	204	451003	63.17768	ppb	91
62) Fluorene	9.62	166	736977	60.38484	ppb	99
63) 4-Nitroaniline	8.92	138	140819	60.48849	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.67	198	156873	73.14431	ppb #	100
67) Diphenyl amine	9.76	169	1187312	114.07623	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1187312	114.07623	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	686860	47.71640	ppb #	88
70) 4-Bromophenyl phenyl ether	10.18	248	278055	63.20614	ppb	92
71) Hexachlorobenzene	10.26	284	293057	65.51688	ppb	89
72) Atrazine	10.37	200	120585	29.71666	ppb	98
73) Pentachlorophenol	10.48	266	202915	73.70250	ppb	99
74) Phenanthrene	10.74	178	1064056	55.60127	ppb	100
75) Anthracene	10.80	178	1102656	55.34973	ppb	99
76) Carbazol	10.98	167	1002446	54.98698	ppb	99
77) Di-n-butylphthalate	11.39	149	1293400	55.55821	ppb	99
78) Fluoranthene	12.12	202	1390381	59.74797	ppb	97
80) Benzidine	12.27	184	327984	62.29909	ppb #	97
81) Pyrene	12.39	202	1454941	51.51107	ppb	99
83) Butyl benzylphthalate	13.14	149	625343	50.45292	ppb	92
84) 3,3'-Dichlorobenzidine	13.75	252	489294	63.52196	ppb	99
85) Benz (a) anthracene	13.79	228	1573209	53.96338	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	897195	50.52127	ppb	99
87) Chrysene	13.82	228	1459483	53.79028	ppb	99
88) Di-n-octylphthalate	14.57	149	1501198	50.96727	ppb	99
90) Benzo (b) fluoranthene	15.12	252	1670121	59.91730	ppb	98
91) Benzo (k) fluoranthene	15.16	252	1414380	52.19299	ppb #	98
92) Benzo (a) pyrene	15.59	252	1422482	57.57193	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.61	276	1709815	58.05765	ppb	97
94) Dibenz (a,h) anthracene	17.66	278	1498368	59.59071	ppb	96
95) Benzo (g,h,i) perylene	18.20	276	1349242	57.45669	ppb #	94

Quantitation Report

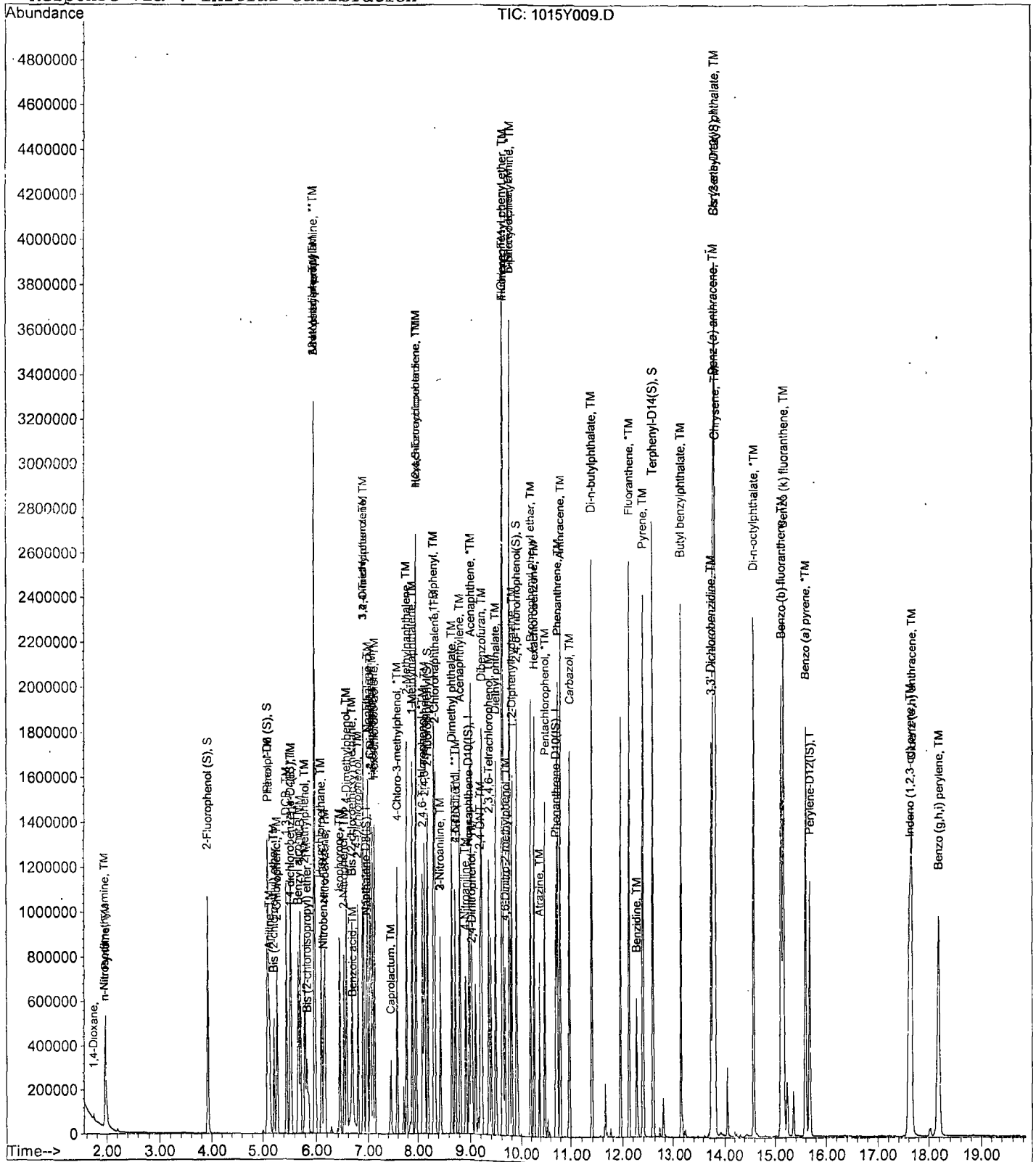
Data File : M:\YODA\DATA\Y191015\1015Y009.D
Acq On : 15 Oct 19 12:38
Sample : 60ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191015\1015Y010.D Vial: 10
 Acq On : 15 Oct 19 13:06 Operator: MA,SS
 Sample : 80ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:25 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	111703	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.96	136	429155	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	270188	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	601262	40.00000	ppb	-0.02
79) Chrysene-D12 (IS)	13.79	240	723233	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	735183	40.00000	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.93	112	578666	142.63009	ppb	0.00
Spiked Amount	200.000		Recovery	=	71.315%	
6) Phenol-D6 (S)	5.11	99	654851	139.20920	ppb	0.00
Spiked Amount	200.000		Recovery	=	69.605%	
22) Nitrobenzene-D5 (S)	6.15	82	372862	72.99785	ppb	0.00
Spiked Amount	100.000		Recovery	=	72.998%	
46) 2-Fluorobiphenyl (S)	8.20	172	821491	78.75274	ppb	0.00
Spiked Amount	100.000		Recovery	=	78.753%	
64) 2,4,6-Tribromophenol (S)	9.91	330	384571	218.90643	ppb	0.00
Spiked Amount	200.000		Recovery	=	109.453%	
82) Terphenyl-D14 (S)	12.57	244	1341453	74.77015	ppb	0.00
Spiked Amount	100.000		Recovery	=	74.770%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.73	58	6728	11.72641		85
3) n-Nitrosodimethylamine	1.95	42	130717	91.60776	ppb	92
4) Pyridine	1.98	79	290942	92.76464	ppb	91
7) Phenol	5.12	94	402834	65.04957	ppb	91
8) Aniline	5.13	93	425623	72.56255	ppb	96
9) Bis (2-chloroethyl) ether	5.22	63	162534	58.03336	ppb	94
10) 2-Chlorophenol	5.27	128	327024	70.84921	ppb	95
11) 1,3-DCB	5.45	146	389978	73.73314	ppb	98
12) 1,4-DCB	5.53	146	397846	74.86242	ppb	99
13) Benzyl alcohol	5.67	108	200024	68.05126	ppb	95
14) 1,2-DCB	5.71	146	367359	73.62631	ppb	97
15) 2-Methylphenol	5.79	107	261107	67.91838	ppb	98
16) Bis (2-chloroisopropyl) et	5.83	45	138107	47.55538	ppb	# 75
17) Acetophenone	5.98	105	502743	73.69147	ppb	# 79
18) 3&4-Methylphenol	5.98	107	715361	142.64073	ppb	98
19) n-Nitrosodi-n-propylamine	5.99	70	255340	64.30341	ppb	98
20) Hexachloroethane	6.09	117	163427	73.59429	ppb	98
23) Nitrobenzene	6.16	77	402185	69.06620	ppb	98
24) Isophorone	6.44	82	652355	67.16083	ppb	95
25) 2-Nitrophenol	6.52	139	184646	84.32269	ppb	86
26) 2,4-Dimethylphenol	6.56	122	283543	67.68376	ppb	95
27) Benzoic acid	6.71	105	309247	100.25171	ppb	97
28) Bis (2-chloroethoxy) metha	6.68	93	343275	65.56483	ppb	99
29) 2,4-Dichlorophenol	6.80	162	316165	79.97544	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	391870	83.30670	ppb	98
31) 3,4-Dimethylphenol	6.91	107	504559	75.93013	ppb	98
32) Napthalene	6.98	128	967988	73.80399	ppb	100
33) 4-Chloroaniline	7.04	127	354669	83.29864	ppb	99
34) 2,6-Dichlorophenol	7.05	162	303670	81.65705	ppb	98
35) Hexachloropropene	7.08	213	380213	94.36678	ppb	99
36) Hexachlorotadiene	7.13	225	302944	89.58820	ppb	99
37) Caprolactum	7.47	55	85511	61.36218	ppb	87

Data File : M:\YODA\DATA\Y191015\1015Y010.D
 Acq On : 15 Oct 19 13:06
 Sample : 80ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	344465	75.74091	ppb	96
39) 2-Methylnaphthalene	7.77	142	684060	76.69412	ppb	98
40) 1-Methylnaphthalene	7.89	142	697464	76.43363	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	420307	89.51872	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	472692	84.53803	ppb	99
44) 2,4,6-Trichlorophenol	8.10	196	282294	81.97731	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	309039	82.19569	ppb	89
47) 1,1'-Biphenyl	8.31	154	908035	73.93534	ppb	97
48) 2-Chloronaphthalene	8.34	162	753436	74.51151	ppb	98
49) 2-Nitroaniline	8.45	65	218862	71.68267	ppb #	82
50) Dimethyl phthalate	8.66	163	946200	75.34180	ppb	100
51) 2,6-DNT	8.73	165	208668	80.88242	ppb	98
52) Acenaphthylene	8.81	152	1133579	71.92481	ppb	100
53) 3-Nitroaniline	8.45	138	224724	75.25896	ppb	96
54) Acenaphthene	9.02	154	798223	77.65111	ppb	100
55) 2,4-Dinitrophenol	9.04	184	133215	101.06359	ppb	93
56) 4-Nitrophenol	8.73	65	15538	75.15722	ppb	96
57) Dibenzofuran	9.22	168	1105633	75.20681	ppb	100
58) 2,4-DNT	9.20	165	296537	82.31630	ppb	84
59) 2,3,4,6-Tetrachlorophenol	9.36	232	275424	92.26883	ppb	96
60) Diethyl phthalate	9.49	149	947337	73.49329	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.62	204	600493	85.49254	ppb	92
62) Fluorene	9.62	166	966344	80.47144	ppb	98
63) 4-Nitroaniline	8.92	138	173705	75.83328	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.67	198	201735	96.84933	ppb #	83
67) Diphenyl amine	9.76	169	1510750	149.45344	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1510750	149.45344	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	861986	61.65704	ppb #	88
70) 4-Bromophenyl phenyl ether	10.18	248	360279	84.32387	ppb	91
71) Hexachlorobenzene	10.26	284	383099	88.18508	ppb	89
72) Atrazine	10.37	200	153810	39.02782	ppb	98
73) Pentachlorophenol	10.48	266	267913	100.19473	ppb	99
74) Phenanthrene	10.74	178	1359791	73.16029	ppb	100
75) Anthracene	10.80	178	1423012	73.54735	ppb	99
76) Carbazol	10.98	167	1262230	71.28865	ppb	99
77) Di-n-butylphthalate	11.39	149	1668800	73.80787	ppb	98
78) Fluoranthene	12.12	202	1771130	78.36511	ppb #	97
80) Benzidine	12.26	184	400045	76.94631	ppb	99
81) Pyrene	12.39	202	1864418	66.84184	ppb	100
83) Butyl benzylphthalate	13.14	149	776840	63.46723	ppb	100
84) 3,3'-Dichlorobenzidine	13.74	252	608286	79.96718	ppb	99
85) Benz (a) anthracene	13.78	228	2026639	70.39455	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	1175720	67.04112	ppb #	97
87) Chrysene	13.82	228	1825120	68.11553	ppb	100
88) Di-n-octylphthalate	14.57	149	1908063	65.59883	ppb	96
90) Benzo (b) fluoranthene	15.11	252	1945277	73.14030	ppb	98
91) Benzo (k) fluoranthene	15.16	252	1937814	74.94267	ppb #	98
92) Benzo (a) pyrene	15.59	252	1795062	76.14027	ppb #	98
93) Indeno (1,2,3-cd) pyrene	17.61	276	2152882	76.61283	ppb	97
94) Dibenz (a,h) anthracene	17.65	278	1899442	79.16936	ppb	97
95) Benzo (g,h,i) perylene	18.19	276	1698136	75.78692	ppb #	95

(#) = qualifier out of range (m) = manual integration
 1015Y010.D Y1015NC.M Wed Oct 16 09:18:54 2019

Quantitation Report

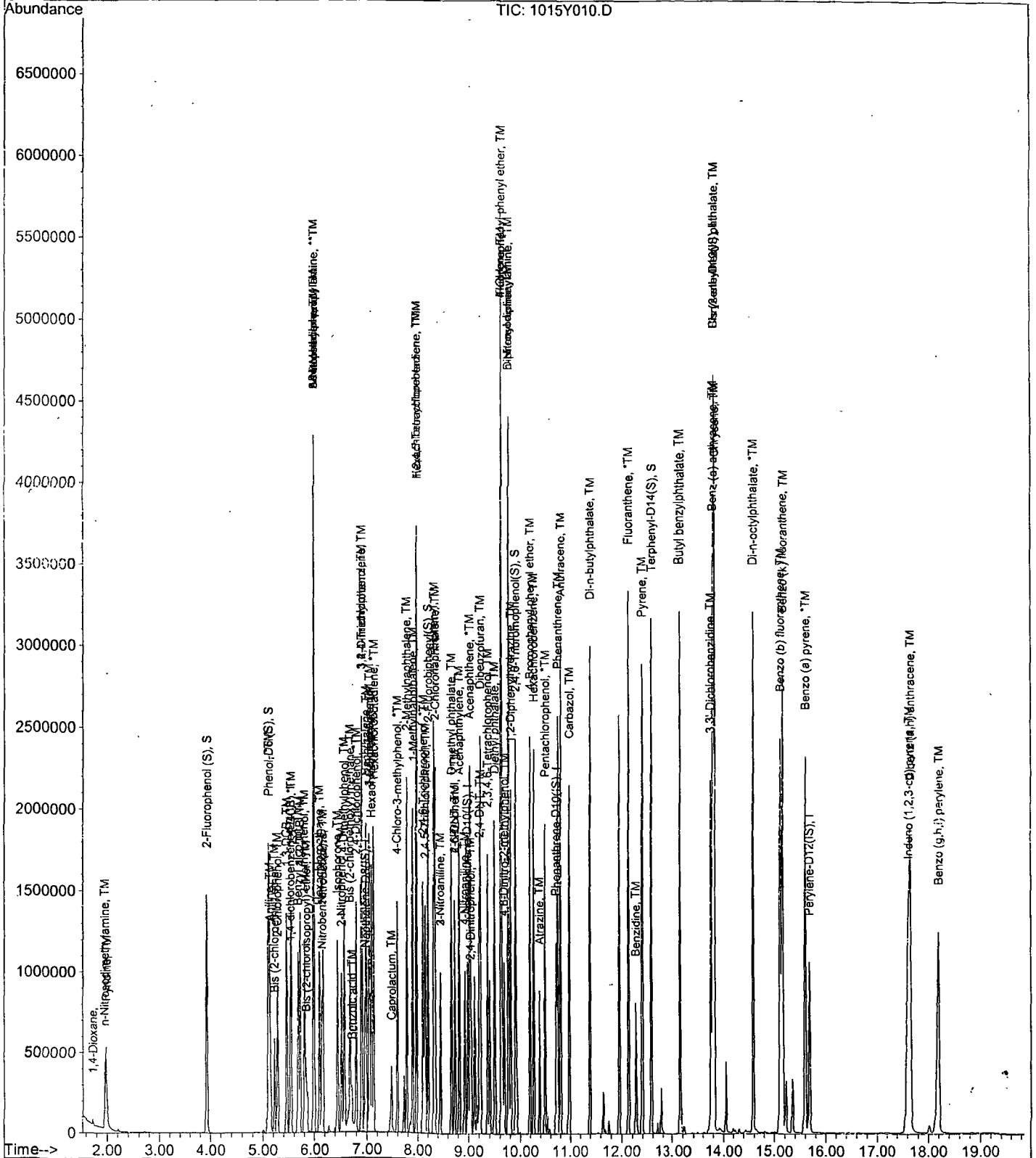
Data File : M:\YODA\DATA\Y191015\1015Y010.D
 Acq On : 15 Oct 19 13:06
 Sample : 80ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191015\1015Y011.D Vial: 11
 Acq On : 15 Oct 19 13:35 Operator: MA,SS
 Sample : 100ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:25 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	109795	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	410766	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.98	164	253641	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	580649	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.80	240	725891	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	720239	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.93	112	726999	182.30530	ppb	0.00
Spiked Amount 200.000			Recovery =	91.153%		
6) Phenol-D6 (S)	5.11	99	820141	177.37656	ppb	0.00
Spiked Amount 200.000			Recovery =	88.689%		
22) Nitrobenzene-D5 (S)	6.15	82	466455	95.40944	ppb	0.00
Spiked Amount 100.000			Recovery =	95.409%		
46) 2-Fluorobiphenyl (S)	8.19	172	1030409	105.22504	ppb	-0.01
Spiked Amount 100.000			Recovery =	105.225%		
64) 2,4,6-Tribromophenol (S)	9.90	330	509442	308.90386	ppb	0.00
Spiked Amount 200.000			Recovery =	154.452%		
82) Terphenyl-D14 (S)	12.57	244	1733687	96.27872	ppb	0.00
Spiked Amount 100.000			Recovery =	96.279%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	7493	13.28670		99
3) n-Nitrosodimethylamine	1.95	42	167641	119.52609	ppb	95
4) Pyridine	1.97	79	368568	119.55726	ppb	95
7) Phenol	5.13	94	504559	82.89199	ppb	81
8) Aniline	5.14	93	524329	90.94391	ppb	90
9) Bis (2-chloroethyl) ether	5.22	63	200161	72.71018	ppb	91
10) 2-Chlorophenol	5.28	128	407096	89.72935	ppb	92
11) 1,3-DCB	5.45	146	485761	93.43887	ppb	99
12) 1,4-DCB	5.54	146	492802	94.34168	ppb	99
13) Benzyl alcohol	5.68	108	244365	84.58149	ppb	93
14) 1,2-DCB	5.71	146	457794	93.34579	ppb	96
15) 2-Methylphenol	5.80	107	323865	85.70676	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	170248	59.64146	ppb	# 80
17) Acetophenone	5.98	105	627454	93.56972	ppb	# 81
18) 3&4-Methylphenol	5.98	107	901335	182.84656	ppb	99
19) n-Nitrosodi-n-propylamine	6.01	70	315481	80.82963	ppb	94
20) Hexachloroethane	6.09	117	201014	92.09348	ppb	95
23) Nitrobenzene	6.17	77	501111	89.90696	ppb	98
24) Isophorone	6.45	82	804536	86.53608	ppb	95
25) 2-Nitrophenol	6.52	139	231743	110.56836	ppb	87
26) 2,4-Dimethylphenol	6.57	122	359191	89.57992	ppb	96
27) Benzoic acid	6.72	105	343099	116.20516	ppb	90
28) Bis (2-chloroethoxy) metha	6.68	93	426012	85.01005	ppb	99
29) 2,4-Dichlorophenol	6.80	162	389607	102.96492	ppb	98
30) 1,2,4-Trichlorobenzene	6.89	180	490729	108.99319	ppb	98
31) 3,4-Dimethylphenol	6.91	107	629322	98.94522	ppb	98
32) Napthalene	6.98	128	1209984	96.38494	ppb	100
33) 4-Chloroaniline	7.04	127	417247	102.38294	ppb	97
34) 2,6-Dichlorophenol	7.05	162	377504	106.05546	ppb	98
35) Hexachloropropene	7.09	213	475793	123.37578	ppb	98
36) Hexachlorobutadiene	7.12	225	382250	118.10156	ppb	99
37) Caprolactum	7.49	55	106952	80.18394	ppb	# 83

(#) = qualifier out of range (m) = manual integration
 1015Y011.D Y1015NC.M Wed Oct 16 09:18:57 2019

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y011.D Vial: 11
 Acq On : 15 Oct 19 13:35 Operator: MA,SS
 Sample : 100ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:25 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	436694	100.31880	ppb	95
39) 2-Methylnaphthalene	7.77	142	860456	100.78972	ppb	100
40) 1-Methylnaphthalene	7.88	142	881547	100.93177	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	534460	121.25763	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	596950	113.72565	ppb	99
44) 2,4,6-Trichlorophenol	8.10	196	361600	111.85800	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	385924	109.34127	ppb	91
47) 1,1'-Biphenyl	8.31	154	1142590	99.10294	ppb #	97
48) 2-Chloronaphthalene	8.34	162	945682	99.62508	ppb	97
49) 2-Nitroaniline	8.44	65	271008	94.55240	ppb	93
50) Dimethyl phthalate	8.66	163	1184183	100.44273	ppb	99
51) 2,6-DNT	8.73	165	264645	109.27192	ppb	98
52) Acenaphthylene	8.81	152	1431872	96.77824	ppb	100
53) 3-Nitroaniline	8.44	138	284025	101.32391	ppb #	91
54) Acenaphthene	9.02	154	1011864	104.85574	ppb	99
55) 2,4-Dinitrophenol	9.04	184	176478	142.61945	ppb	96
56) 4-Nitrophenol	8.73	65	19036	98.08394	ppb	98
57) Dibenzofuran	9.22	168	1393691	100.98556	ppb	97
58) 2,4-DNT	9.20	165	374594	110.76801	ppb	84
59) 2,3,4,6-Tetrachlorophenol	9.36	232	352312	125.72663	ppb	94
60) Diethyl phthalate	9.49	149	1200526	99.21135	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.61	204	763391	115.77476	ppb	97
62) Fluorene	9.62	166	1245231	110.46039	ppb	99
63) 4-Nitroaniline	8.92	138	214223	99.62314	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.68	198	260555	129.52836	ppb #	86
67) Diphenyl amine	9.76	169	1942972	199.03522	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1942972	199.03522	ppb	100
69) 1,2-Diphenylhydrazine	9.81	77	1062198	78.67523	ppb #	85
70) 4-Bromophenyl phenyl ether	10.19	248	469119	113.69587	ppb	98
71) Hexachlorobenzene	10.26	284	495882	118.19865	ppb #	83
72) Atrazine	10.37	200	193135	50.74588	ppb	99
73) Pentachlorophenol	10.48	266	343400	132.98463	ppb	98
74) Phenanthrene	10.73	178	1759829	98.04462	ppb	99
75) Anthracene	10.80	178	1824423	97.64142	ppb	99
76) Carbazol	10.97	167	1628686	95.25096	ppb	98
77) Di-n-butylphthalate	11.39	149	2132245	97.65300	ppb	97
78) Fluoranthene	12.13	202	2267953	103.90978	ppb #	96
80) Benzidine	12.27	184	515334	98.75852	ppb	99
81) Pyrene	12.39	202	2385033	85.19348	ppb	99
83) Butyl benzylphthalate	13.14	149	1020021	83.02978	ppb	97
84) 3,3'-Dichlorobenzidine	13.75	252	786538	103.02212	ppb	97
85) Benz (a) anthracene	13.78	228	2669873	92.39747	ppb	99
86) Bis (2-ethylhexyl) phthala	13.81	149	1513426	85.98157	ppb #	96
87) Chrysene	13.82	228	2369156	88.09580	ppb	100
88) Di-n-octylphthalate	14.58	149	2498094	85.56949	ppb	95
90) Benzo (b) fluoranthene	15.11	252	2862858	109.87373	ppb	99
91) Benzo (k) fluoranthene	15.16	252	2265102	89.41773	ppb	98
92) Benzo (a) pyrene	15.60	252	2373403	102.76028	ppb #	98
93) Indeno (1,2,3-cd) pyrene	17.61	276	2831365	102.84803	ppb	96
94) Dibenz (a,h) anthracene	17.67	278	2505141	106.58156	ppb #	95
95) Benzo (g,h,i) perylene	18.21	276	2227567	101.47788	ppb #	94

(#) = qualifier out of range (m) = manual integration
 1015Y011.D Y1015NC.M Wed Oct 16 09:18:58 2019

Quantitation Report

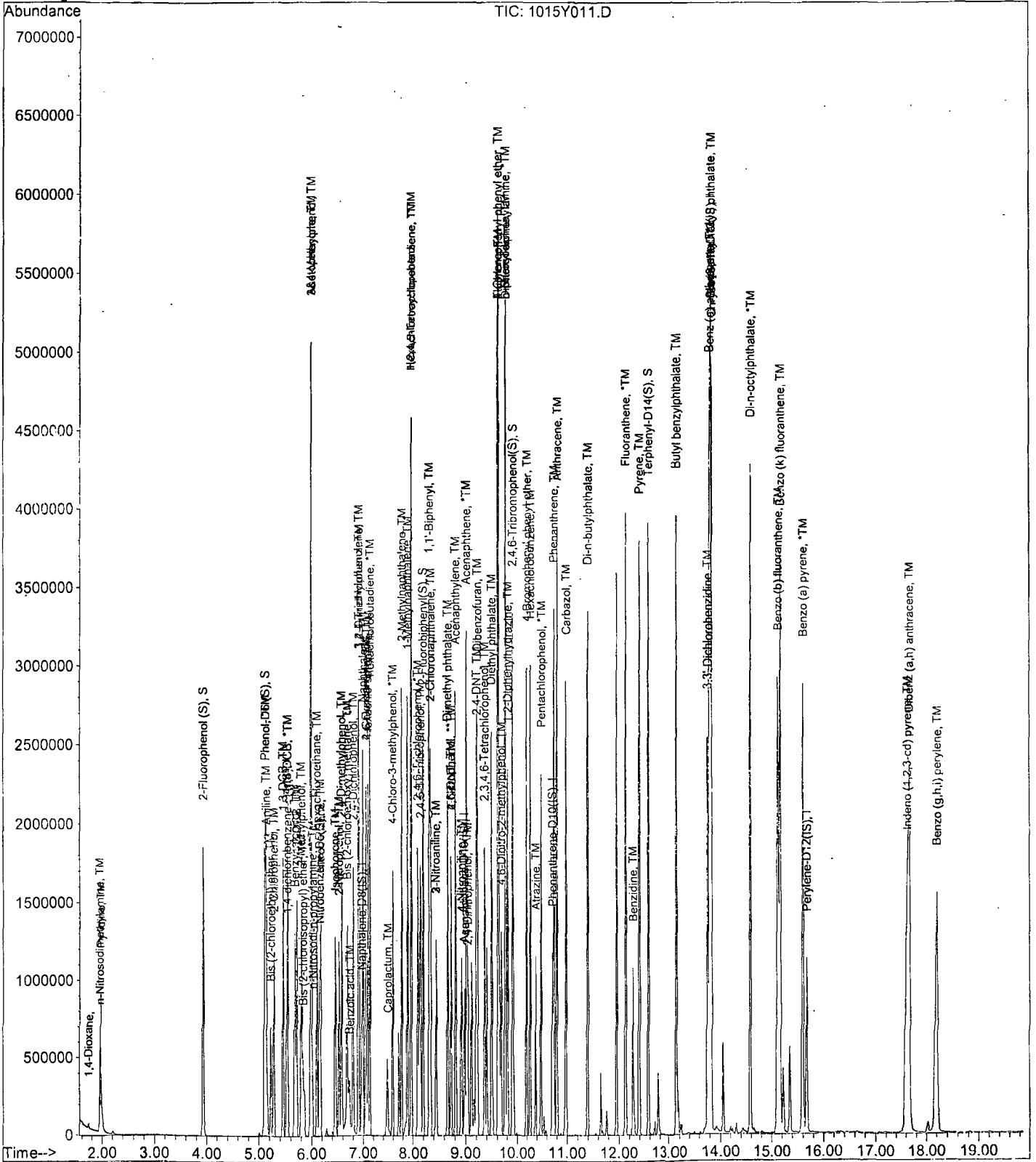
Data File : M:\YODA\DATA\Y191015\1015Y011.D
Acq On : 15 Oct 19 13:35
Sample : 100ug/ml 8270 10/11/19
Misc :

Vial: 11
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191015\1015Y013.D Vial: 13
 Acq On : 15 Oct 19 14:58 Operator: MA,SS
 Sample : 50ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 15:17 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	114448	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	424154	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	260099	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	591906	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	697171	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	739810	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.92	112	346200	90.86669	ppb	0.00
Spiked Amount 200.000			Recovery =	45.434%		
6) Phenol-D6 (S)	5.09	99	394796	91.68678	ppb	0.00
Spiked Amount 200.000			Recovery =	45.844%		
22) Nitrobenzene-D5 (S)	6.14	82	227193	49.47889	ppb	0.00
Spiked Amount 100.000			Recovery =	49.479%		
46) 2-Fluorobiphenyl (S)	8.19	172	491198	48.66220	ppb	0.00
Spiked Amount 100.000			Recovery =	48.662%		
64) 2,4,6-Tribromophenol (S)	9.90	330	227910	104.00052	ppb	0.00
Spiked Amount 200.000			Recovery =	52.001%		
82) Terphenyl-D14 (S)	12.56	244	797449	47.65370	ppb	-0.01
Spiked Amount 100.000			Recovery =	47.654%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	3749	3.86751		96
3) n-Nitrosodimethylamine	1.95	42	86994	44.11514	ppb	81
4) Pyridine	1.97	79	171266	43.98939	ppb	94
7) Phenol	5.11	94	239503	42.42299	ppb	99
8) Aniline	5.13	93	253305	43.75054	ppb	97
9) Bis (2-chloroethyl) ether	5.21	63	93805	41.35712	ppb	92
10) 2-Chlorophenol	5.27	128	194531	42.91001	ppb	94
11) 1,3-DCB	5.45	146	229895	42.87495	ppb	99
12) 1,4-DCB	5.53	146	233371	42.87896	ppb	100
13) Benzyl alcohol	5.66	108	118587	43.13947	ppb	96
14) 1,2-DCB	5.70	146	216746	42.93767	ppb	99
15) 2-Methylphenol	5.78	107	154661	42.19998	ppb	97
16) Bis (2-chloroisopropyl) et	5.82	45	80212	40.73096	ppb	# 70
17) Acetophenone	5.97	105	296410	43.55956	ppb	90
18) 3&4-Methylphenol	5.97	107	421518	85.91746	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	151502	42.46262	ppb	93
20) Hexachloroethane	6.09	117	97669	44.00015	ppb	88
23) Nitrobenzene	6.16	77	243953	46.18522	ppb	99
24) Isophorone	6.43	82	387992	44.76228	ppb	93
25) 2-Nitrophenol	6.52	139	108918	47.03585	ppb	91
26) 2,4-Dimethylphenol	6.56	122	180117	45.80768	ppb	93
27) Benzoic acid	6.68	105	185609	54.52316	ppb	95
28) Bis (2-chloroethoxy) metha	6.67	93	204034	44.44457	ppb	98
29) 2,4-Dichlorophenol	6.79	162	184762	44.92124	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	229948	45.37465	ppb	99
31) 3,4-Dimethylphenol	6.90	107	300321	45.38586	ppb	99
32) Napthalene	6.98	128	569978	44.40849	ppb	100
33) 4-Chloroaniline	7.03	127	227456	46.43787	ppb	98
34) 2,6-Dichlorophenol	7.05	162	177064	44.76675	ppb	96
35) Hexachloropropene	7.08	213	226054	47.19737	ppb	100
36) Hexachlorotadiene	7.12	225	181909	46.52444	ppb	99
37) Caprolactum	7.45	55	50028	44.35942	ppb	# 82

Data File : M:\YODA\DATA\Y191015\1015Y013.D
 Acq On : 15 Oct 19 14:58
 Sample : 50ug/ml 8270 10/11/19
 Misc :

Vial: 13
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:17 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	202220	44.70235	ppb	94
39) 2-Methylnaphthalene	7.77	142	399889	44.77710	ppb	98
40) 1-Methylnaphthalene	7.88	142	411817	44.80745	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	236629	47.25349	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	269429	45.79127	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	166034	45.38202	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	183514	46.30316	ppb	89
47) 1,1'-Biphenyl	8.31	154	530865	45.44358	ppb #	96
48) 2-Chloronaphthalene	8.33	162	436649	44.56966	ppb	100
49) 2-Nitroaniline	8.44	65	131883	48.54341	ppb	85
50) Dimethyl phthalate	8.65	163	554100	45.31841	ppb	99
51) 2,6-DNT	8.72	165	122711	47.61057	ppb	97
52) Acenaphthylene	8.81	152	672490	45.42977	ppb	99
53) 3-Nitroaniline	8.44	138	130952	46.63895	ppb #	96
54) Acenaphthene	9.01	154	461359	46.25562	ppb	99
55) 2,4-Dinitrophenol	9.03	184	76487	60.39498	ppb	93
56) 4-Nitrophenol	8.72	65	9519	49.51599	ppb #	90
57) Dibenzofuran	9.21	168	652615	45.55026	ppb	99
58) 2,4-DNT	9.19	165	174139	48.26540	ppb	80
59) 2,3,4,6-Tetrachlorophenol	9.35	232	160642	46.60077	ppb	98
60) Diethyl phthalate	9.48	149	572133	45.64375	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	336346	45.70502	ppb	99
62) Fluorene	9.61	166	542788	45.27721	ppb	100
63) 4-Nitroaniline	8.91	138	108873	47.29111	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.66	198	116519	49.50242	ppb #	90
67) Diphenyl amine	9.75	169	888039	90.68068	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	888039	90.68068	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	515780	44.54532	ppb	90
70) 4-Bromophenyl phenyl ether	10.18	248	208489	45.50538	ppb	96
71) Hexachlorobenzene	10.26	284	223295	46.04729	ppb #	79
72) Atrazine	10.37	200	95906	24.04582	ppb	95
73) Pentachlorophenol	10.48	266	154724	48.21138	ppb	98
74) Phenanthrene	10.73	178	817563	45.18736	ppb	100
75) Anthracene	10.80	178	847181	45.40760	ppb	99
76) Carbazol	10.97	167	754637	44.95851	ppb	99
77) Di-n-butylphthalate	11.38	149	983669	45.96795	ppb	100
78) Fluoranthene	12.11	202	1056106	46.16990	ppb	98
80) Benzidine	12.26	184	264028	47.97982	ppb	98
81) Pyrene	12.38	202	1092344	44.14663	ppb	99
83) Butyl benzylphthalate	13.14	149	468593	44.91450	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	394787	46.95075	ppb	99
85) Benz (a) anthracene	13.78	228	1179236	44.13891	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	682577	44.79589	ppb #	97
87) Chrysene	13.82	228	1130633	45.56306	ppb	99
88) Di-n-octylphthalate	14.57	149	1119892	44.22505	ppb	95
90) Benzo (b) fluoranthene	15.11	252	1220669	45.62447	ppb #	98
91) Benzo (k) fluoranthene	15.15	252	1109680	45.22935	ppb #	98
92) Benzo (a) pyrene	15.59	252	1088189	46.85262	ppb #	97
93) Indeno (1,2,3-cd) pyrene	17.60	276	1315041	45.79064	ppb	97
94) Dibenz (a,h) anthracene	17.64	278	1155513	47.19750	ppb #	96
95) Benzo (g,h,i) perylene	18.18	276	1046529	45.67694	ppb #	95

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

1015Y013.D Y1015NC.M

Wed Oct 16

Page 4 of 1006

Page 2

Quantitation Report

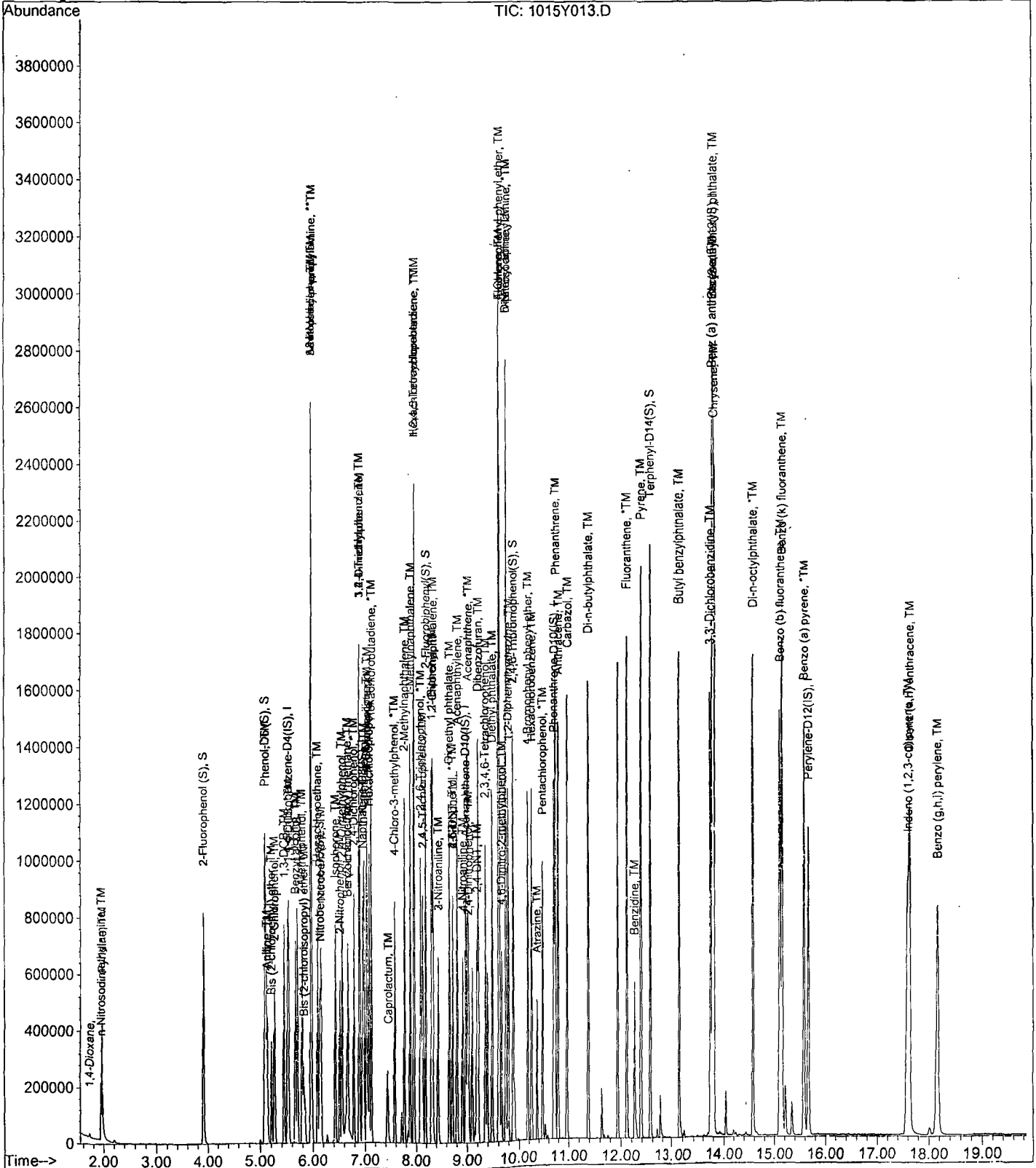
Data File : M:\YODA\DATA\Y191015\1015Y013.D
Acq On : 15 Oct 19 14:58
Sample : 50ug/ml 8270 10/11/19
Misc :

Vial: 13
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 15:17 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1015Y014.D

	Compound	MEAN	CCRF	%D	%Drift
1	1,4-Dioxane	0.3063	0.3452	13	
2 TM	n-Nitrosodimethylamine	0.6920	0.6480	6.4	TM
3 TM	Pyridine	1.349	1.345	0.27	TM
4 *TM	Phenol	1.959	1.752	11	*TM
5 TM	Aniline	2.012	1.774	12	TM
6 TM	Bis (2-chloroethyl) ether	0.7840	0.6810	13	TM
7 TM	2-Chlorophenol	1.576	1.460	7.3	TM
8 TM	1,3-DCB	1.864	1.691	9.3	TM
9 *TM	1,4-DCB	1.891	1.721	9.0	*TM
10 TM	Benzyl alcohol	0.9562	0.8410	12	TM
11 TM	1,2-DCB	1.755	1.588	9.5	TM
12 TM	2-Methylphenol	1.273	1.132	11	TM
13 TM	Bis (2-chloroisopropyl) ether	0.6792	0.5856	14	TM
14 TM	Acetophenone	2.374	2.148	9.5	TM
15 TM	3&4-Methylphenol	1.709	1.567	8.3	TM
16 **TM	n-Nitrosodi-n-propylamine	1.241	1.087	12	**TM
17 TM	Hexachloroethane	0.7740	0.7083	8.5	TM
18 TM	Nitrobenzene	0.4977	0.4581	8.0	TM
19 TM	Isophorone	0.8144	0.7420	8.9	TM
20 *TM	2-Nitrophenol	0.2184	0.2178	0.27	*TM
21 TM	2,4-Dimethylphenol	0.3697	0.3566	3.5	TM
22 TM	Benzoic acid	0.3267	0.3446	5.5	TM
23 TM	Bis (2-chloroethoxy) methane	0.4305	0.3821	11	TM
24 *TM	2,4-Dichlorophenol	0.3867	0.3645	5.8	*TM
25 TM	1,2,4-Trichlorobenzene	0.4775	0.4408	7.7	TM
26 TM	3,4-Dimethylphenol	0.6241	0.5830	6.6	TM
27 TM	Naphthalene	1.205	1.119	7.2	TM
28 TM	4-Chloroaniline	0.4604	0.4342	5.7	TM
29 TM	2,6-Dichlorophenol	0.3721	0.3586	3.6	TM
30 TM	Hexachloropropene	0.4531	0.4418	2.5	TM
31 *TM	Hexachlorobutadiene	0.3696	0.3442	6.9	*TM
32 TM	Caprolactum	0.1055	0.0969	8.2	TM
33 *TM	4-Chloro-3-methylphenol	0.4254	0.3995	6.1	*TM
34 TM	2-Methylnaphthalene	0.8399	0.7759	7.6	TM
35 TM	1-Methylnaphthalene	0.8649	0.8016	7.3	TM
36 **TM	Hexachlorocyclopentadiene	0.7712	0.7286	5.5	**TM
37 TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.8441	6.7	TM
38 *TM	2,4,6-Trichlorophenol	0.5618	0.5356	4.7	*TM
39 TM	2,4,5-Trichlorophenol	0.6095	0.5678	6.9	TM
40 TM	1,1'-Biphenyl	1.794	1.654	7.8	TM

Average

7.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1015Y014.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.503	1.351	10	TM
42	TM	2-Nitroaniline	0.4197	0.4017	4.3	TM
43	TM	Dimethyl phthalate	1.878	1.689	10	TM
44	TM	2,6-DNT	0.3984	0.3767	5.4	TM
45	TM	Acenaphthylene	2.269	2.065	9.0	TM
46	TM	3-Nitroaniline	0.4320	0.4104	5.0	TM
47	*TM	Acenaphthene	1.535	1.444	5.9	*TM
48	**TM	2,4-Dinitrophenol	0.2337	0.2488	6.4	**TM
49	**TM	4-Nitrophenol	0.0299	0.0279	6.5	**TM
50	TM	Dibenzofuran	2.200	2.001	9.0	TM
51	TM	2,4-DNT	0.5566	0.5362	3.6	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.5487	3.4	TM
53	TM	Diethyl phthalate	1.924	1.740	9.6	TM
54	TM	4-Chlorophenyl phenyl ether	1.132	1.014	10	TM
55	TM	Fluorene	1.841	1.694	7.9	TM
56	TM	4-Nitroaniline	0.3535	0.3341	5.5	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1687	4.6	TM
58	TM	Diphenyl amine	0.6596	0.6219	5.7	TM
59	*TM	n-Nitrosodiphenylamine	0.6596	0.6219	5.7	*TM
60	TM	1,2-Diphenylhydrazine	0.7783	0.7069	9.2	TM
61	TM	4-Bromophenyl phenyl ether	0.3089	0.2862	7.4	TM
62	TM	Hexachlorobenzene	0.3280	0.3100	5.5	TM
63	TM	Atrazine	0.2701	0.2395	11	TM
64	*TM	Pentachlorophenol	0.2172	0.2189	0.80	*TM
65	TM	Phenanthrene	1.218	1.112	8.7	TM
66	TM	Anthracene	1.257	1.142	9.2	TM
67	TM	Carbazol	1.130	1.045	7.6	TM
68	TM	Di-n-butylphthalate	1.440	1.342	6.8	TM
69	*TM	Fluoranthene	1.542	1.449	6.0	*TM
70	TM	Benzidine	0.3142	0.3398	8.1	TM
71	TM	Pyrene	1.410	1.275	9.5	TM
72	TM	Butyl benzylphthalate	0.5939	0.5393	9.2	TM
73	TM	3,3'-Dichlorobenzidine	0.4848	0.5045	4.1	TM
74	TM	Benz (a) anthracene	1.524	1.384	9.2	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7763	11	TM
76	TM	Chrysene	1.422	1.296	8.9	TM
77	*TM	Di-n-octylphthalate	1.437	1.286	11	*TM
78	TM	Benzo (b) fluoranthene	1.453	1.287	11	TM
79	TM	Benzo (k) fluoranthene	1.314	1.300	1.0	TM
80	*TM	Benzo (a) pyrene	1.252	1.193	4.7	*TM

Average

7.2

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/15/19

Matrix: 0

Instrument: Yoda

Cal. Date: 10/15/19

Data File: 1015Y014.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.548	1.438	7.1	TM
82	TM	Dibenz (a,h) anthracene	1.320	1.249	5.4	TM
83	TM	Benzo (g,h,i) perylene	1.233	1.142	7.4	TM
84						
85						
86						
87						
88						
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117						
118						
119						
120		Average			6.6	

Data File : M:\YODA\DATA\Y191015\1015Y014.D
 Acq On : 15 Oct 19 15:26
 Sample : SS 8270 10/11/19
 Misc :

Vial: 14
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	108800	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	413215	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	258052	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	576461	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	677525	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	709642	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
22) Nitrobenzene-D5 (S)	6.09	82	33101	7.38296	ppb	-0.05
Spiked Amount 100.000			Recovery =	7.383%		
46) 2-Fluorobiphenyl (S)	8.13	172	338	0.03381	ppb	-0.06
Spiked Amount 100.000			Recovery =	0.034%		
64) 2,4,6-Tribromophenol (S)	0.00	330	0	0.00000	ppb	
Spiked Amount 200.000			Recovery =	0.000%		
82) Terphenyl-D14 (S)	12.56	244	429	0.02646	ppb	0.00
Spiked Amount 100.000			Recovery =	0.026%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	4695	5.63591		97
3) n-Nitrosodimethylamine	1.95	42	88130	46.81859	ppb	85
4) Pyridine	1.97	79	182983	49.86584	ppb	97
7) Phenol	5.10	94	238322	44.73052	ppb	99
8) Aniline	5.14	93	241265	44.09205	ppb	98
9) Bis (2-chloroethyl) ether	5.21	63	92610	43.42828	ppb	99
10) 2-Chlorophenol	5.27	128	198561	46.32704	ppb	94
11) 1,3-DCB	5.45	146	229971	45.36089	ppb	99
12) 1,4-DCB	5.53	146	233999	45.48512	ppb	99
13) Benzyl alcohol	5.66	108	114371	43.97451	ppb	99
14) 1,2-DCB	5.70	146	216007	45.26167	ppb	100
15) 2-Methylphenol	5.79	107	153971	44.47739	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	79642	43.10683	ppb	94
17) Acetophenone	5.97	105	292140	45.24897	ppb	93
18) 3&4-Methylphenol	5.97	107	426236	91.69300	ppb	100
19) n-Nitrosodi-n-propylamine	5.97	70	147849	43.81167	ppb	96
20) Hexachloroethane	6.09	117	96332	45.75897	ppb	93
23) Nitrobenzene	6.16	77	236616	46.02261	ppb	98
24) Isophorone	6.43	82	383237	45.55498	ppb	99
25) 2-Nitrophenol	6.52	139	112506	49.86279	ppb	99
26) 2,4-Dimethylphenol	6.56	122	184211	48.23981	ppb	95
27) Benzoic acid	6.68	105	177981	52.74143	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	197348	44.37091	ppb	98
29) 2,4-Dichlorophenol	6.79	162	188249	47.12455	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	227685	46.15796	ppb	98
31) 3,4-Dimethylphenol	6.90	107	301144	46.71007	ppb	99
32) Napthalene	6.98	128	577733	46.40319	ppb	99
33) 4-Chloroaniline	7.03	127	224265	47.15332	ppb	100
34) 2,6-Dichlorophenol	7.05	162	185210	48.17631	ppb	98
35) Hexachloropropene	7.08	213	228214	48.75337	ppb	100
36) Hexachlorobutadiene	7.12	225	177794	46.56268	ppb	99
37) Caprolactum	7.45	55	50037	45.90613	ppb	97

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

Data File : M:\YODA\DATA\Y191015\1015Y014.D
 Acq On : 15 Oct 19 15:26
 Sample : SS 8270 10/11/19
 Misc :

Vial: 14
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	206361	46.96055	ppb	98
39) 2-Methylnaphthalene	7.77	142	400760	46.18688	ppb	100
40) 1-Methylnaphthalene	7.88	142	414048	46.34241	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	235014	47.23897	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	272284	46.66838	ppb	99
44) 2,4,6-Trichlorophenol	8.09	196	172764	47.66746	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	183146	46.57486	ppb	96
47) 1,1'-Biphenyl	8.31	154	533550	46.09555	ppb	100
48) 2-Chloronaphthalene	8.33	162	435932	44.96842	ppb	99
49) 2-Nitroaniline	8.44	65	129581	47.86079	ppb	97
50) Dimethyl phthalate	8.65	163	544763	44.96165	ppb	100
51) 2,6-DNT	8.72	165	121521	47.28407	ppb	99
52) Acenaphthylene	8.81	152	666168	45.50048	ppb	100
53) 3-Nitroaniline	8.44	138	132366	47.49970	ppb	99
54) Acenaphthene	9.01	154	465935	47.04690	ppb	99
55) 2,4-Dinitrophenol	9.03	184	80240	53.21247	ppb	98
56) 4-Nitrophenol	8.72	65	9001	46.73609	ppb #	90
57) Dibenzofuran	9.21	168	645535	45.48850	ppb	98
58) 2,4-DNT	9.19	165	172975	48.17578	ppb	97
59) 2,3,4,6-Tetrachlorophenol	9.35	232	176990	51.69430	ppb	98
60) Diethyl phthalate	9.48	149	561141	45.20340	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.61	204	327010	44.78022	ppb	97
62) Fluorene	9.61	166	546522	46.02770	ppb	100
63) 4-Nitroaniline	8.91	138	107766	47.25499	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.66	198	121596	52.28900	ppb	90
67) Diphenyl amine	9.75	169	896206	94.28296	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	896206	94.28296	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	509368	45.41192	ppb	97
70) 4-Bromophenyl phenyl ether	10.18	248	206252	46.32452	ppb	94
71) Hexachlorobenzene	10.26	284	223396	47.25745	ppb	97
72) Atrazine	10.36	200	86302	22.17448	ppb	97
73) Pentachlorophenol	10.47	266	157761	50.39759	ppb	100
74) Phenanthrene	10.73	178	801561	45.67299	ppb	99
75) Anthracene	10.79	178	822779	45.40428	ppb	99
76) Carbazol	10.97	167	752964	46.22223	ppb	99
77) Di-n-butylphthalate	11.38	149	966666	46.59428	ppb	99
78) Fluoranthene	12.11	202	1044411	46.98429	ppb	100
80) Benzidine	12.26	184	287765	54.06904	ppb	99
81) Pyrene	12.38	202	1079829	45.22813	ppb	99
83) Butyl benzylphthalate	13.13	149	456745	45.40211	ppb	83
84) 3,3'-Dichlorobenzidine	13.74	252	427230	52.02874	ppb	99
85) Benz (a) anthracene	13.78	228	1172107	45.39357	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	657488	44.70556	ppb	96
87) Chrysene	13.82	228	1097481	45.57331	ppb	100
88) Di-n-octylphthalate	14.57	149	1088938	44.72842	ppb	95
90) Benzo (b) fluoranthene	15.10	252	1141613	44.28417	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1153389	49.47521	ppb	99
92) Benzo (a) pyrene	15.59	252	1058543	47.64716	ppb	100
93) Indeno (1,2,3-cd) pyrene	17.59	276	1275701	46.46121	ppb	100
94) Dibenz (a,h) anthracene	17.64	278	1107644	47.28480	ppb	100
95) Benzo (g,h,i) perylene	18.18	276	1013081	46.31348	ppb	99

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

1015Y014.D Y1015NC.M

Wed Oct 16 09:19:07 2019

Quantitation Report

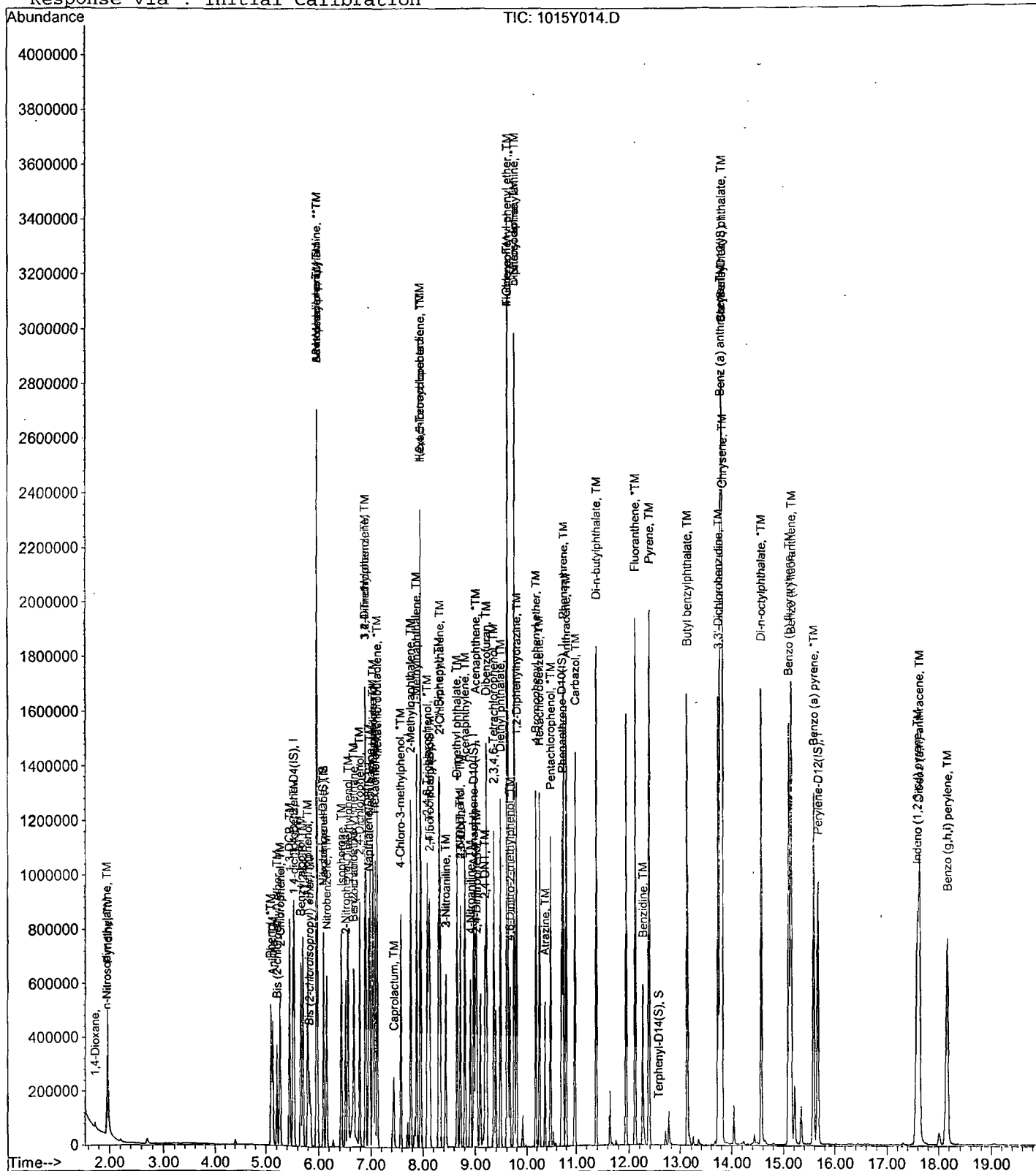
Data File : M:\YODA\DATA\Y191015\1015Y014.D
Acq On : 15 Oct 19 15:26
Sample : SS 8270 10/11/19
Misc :

Vial: 14
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1030Y195.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.3063	0.4034	32	
3	TM	n-Nitrosodimethylamine	0.6920	0.5539	20	TM
4	TM	Pyridine	1.349	1.278	5.2	TM
5	S	2-Fluorophenol (S)	1.319	1.333	1.1	S
6	S	Phenol-D6 (S)	1.495	1.516	1.4	S
7	*TM	Phenol	1.959	1.738	11	*TM
8	TM	Aniline	2.012	1.722	14	TM
9	TM	Bis (2-chloroethyl) ether	0.7840	0.7149	8.8	TM
10	TM	2-Chlorophenol	1.576	1.466	7.0	TM
11	TM	1,3-DCB	1.864	1.690	9.3	TM
12	*TM	1,4-DCB	1.891	1.738	8.1	*TM
13	TM	Benzyl alcohol	0.9562	0.8525	11	TM
14	TM	1,2-DCB	1.755	1.608	8.4	TM
15	TM	2-Methylphenol	1.273	1.133	11	TM
16	TM	Bis (2-chloroisopropyl) ether	0.6792	0.7143	5.2	TM
17	TM	Acetophenone	2.374	2.025	15	TM
18	TM	3&4-Methylphenol	1.709	1.493	13	TM
19	**TM	n-Nitrosodi-n-propylamine	1.241	1.029	17	**TM
20	TM	Hexachloroethane	0.7740	0.6674	14	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.4340	0.4148	4.4	S
23	TM	Nitrobenzene	0.4977	0.4245	15	TM
24	TM	Isophorone	0.8144	0.6948	15	TM
25	*TM	2-Nitrophenol	0.2184	0.2169	0.69	*TM
26	TM	2,4-Dimethylphenol	0.3697	0.3271	12	TM
27	TM	Benzoic acid	0.3267	0.3159	3.3	TM
28	TM	Bis (2-chloroethoxy) methane	0.4305	0.3932	8.7	TM
29	*TM	2,4-Dichlorophenol	0.3867	0.3493	9.7	*TM
30	TM	1,2,4-Trichlorobenzene	0.4775	0.4279	10	TM
31	TM	3,4-Dimethylphenol	0.6241	0.5321	15	TM
32	TM	Napthalene	1.205	1.093	9.3	TM
33	TM	4-Chloroaniline	0.4604	0.4221	8.3	TM
34	TM	2,6-Dichlorophenol	0.3721	0.3305	11	TM
35	TM	Hexachloropropene	0.4531	0.3889	14	TM
36	*TM	Hexachlorobutadiene	0.3696	0.3163	14	*TM
37	TM	Caprolactum	0.1055	0.1023	3.0	TM
38	*TM	4-Chloro-3-methylphenol	0.4254	0.3697	13	*TM
39	TM	2-Methylnapthalene	0.8399	0.7627	9.2	TM
40	TM	1-Methylnapthalene	0.8649	0.7801	9.8	TM

Average

10.5

*NT
11/5/19

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y195.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TM	Hexachlorocyclopentadiene	0.7712	0.6503	16	**TM
43	TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.8206	9.3	TM
44	*TM	2,4,6-Trichlorophenol	0.5618	0.4966	12	*TM
45	TM	2,4,5-Trichlorophenol	0.6095	0.5625	7.7	TM
46	S	2-Fluorobiphenyl(S)	1.550	1.589	2.5	S
47	TM	1,1'-Biphenyl	1.794	1.617	9.9	TM
48	TM	2-Chloronaphthalene	1.503	1.351	10	TM
49	TM	2-Nitroaniline	0.4197	0.3680	12	TM
50	TM	Dimethyl phthalate	1.878	1.660	12	TM
51	TM	2,6-DNT	0.3984	0.3874	2.8	TM
52	TM	Acenaphthylene	2.269	2.050	9.6	TM
53	TM	3-Nitroaniline	0.4320	0.4280	0.91	TM
54	*TM	Acenaphthene	1.535	1.406	8.4	*TM
55	**TM	2,4-Dinitrophenol	0.2337	0.2030	13	**TM
56	**TM	4-Nitrophenol	0.0299	0.0239	20	**TM
57	TM	Dibenzofuran	2.200	1.953	11	TM
58	TM	2,4-DNT	0.5566	0.5391	3.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.4972	6.3	TM
60	TM	Diethyl phthalate	1.924	1.668	13	TM
61	TM	4-Chlorophenyl phenyl ether	1.132	0.9903	13	TM
62	TM	Fluorene	1.841	1.624	12	TM
63	TM	4-Nitroaniline	0.3535	0.3482	1.5	TM
64	S	2,4,6-Tribromophenol(S)	0.3401	0.3890	14	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1626	0.79	TM
67	TM	Diphenyl amine	0.6596	0.6022	8.7	TM
68	*TM	n-Nitrosodiphenylamine	0.6596	0.6022	8.7	*TM
69	TM	1,2-Diphenylhydrazine	0.7783	0.6444	17	TM
70	TM	4-Bromophenyl phenyl ether	0.3089	0.2941	4.8	TM
71	TM	Hexachlorobenzene	0.3280	0.3208	2.2	TM
72	TM	Atrazine	0.2701	0.2327	14	TM
73	*TM	Pentachlorophenol	0.2172	0.2100	3.3	*TM
74	TM	Phenanthrene	1.218	1.101	9.6	TM
75	TM	Anthracene	1.257	1.146	8.8	TM
76	TM	Carbazol	1.130	1.040	8.0	TM
77	TM	Di-n-butylphthalate	1.440	1.309	9.1	TM
78	*TM	Fluoranthene	1.542	1.413	8.4	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3142	0.3028	3.6	TM
Average					8.8	

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y195.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.410	1.229	13	TM
82	S	Terphenyl-D14(S)	0.9572	0.9948	3.9	S
83	TM	Butyl benzylphthalate	0.5939	0.5201	12	TM
84	TM	3,3'-Dichlorobenzidine	0.4848	0.5086	4.9	TM
85	TM	Benz (a) anthracene	1.524	1.325	13	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7484	14	TM
87	TM	Chrysene	1.422	1.254	12	TM
88	*TM	Di-n-octylphthalate	1.437	1.263	12	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.453	1.308	10.0	TM
91	TM	Benzo (k) fluoranthene	1.314	1.153	12	TM
92	*TM	Benzo (a) pyrene	1.252	1.164	7.1	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.548	1.407	9.1	TM
94	TM	Dibenz (a,h) anthracene	1.320	1.234	6.6	TM
95	TM	Benzo (g,h,i) perylene	1.233	1.119	9.2	TM
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Average

9.9

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y195.D
 Acq On : 5 Nov 19 10:52
 Sample : 50ug/ml 8270 10/24/19 (3)
 Misc :

Vial: 95
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	174147	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	676049	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	414742	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	907962	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	1087986	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1195404	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.95	112	580379	101.05242	ppb	0.03
Spiked Amount 200.000			Recovery =	50.526%		
6) Phenol-D6 (S)	5.11	99	660084	101.44826	ppb	0.02
Spiked Amount 200.000			Recovery =	50.724%		
22) Nitrobenzene-D5 (S)	6.14	82	350557	47.79096	ppb	0.00
Spiked Amount 100.000			Recovery =	47.791%		
46) 2-Fluorobiphenyl (S)	8.19	172	823670	51.25801	ppb	0.00
Spiked Amount 100.000			Recovery =	51.258%		
64) 2,4,6-Tribromophenol (S)	9.90	330	403387	114.39449	ppb	0.00
Spiked Amount 200.000			Recovery =	57.197%		
82) Terphenyl-D14 (S)	12.56	244	1352886	51.96419	ppb	0.00
Spiked Amount 100.000			Recovery =	51.964%		

Target Compounds

						Qvalue
3) n-Nitrosodimethylamine	1.98	42	120566	40.01587	ppb	98
4) Pyridine	2.00	79	278287	47.38035	ppb	97
7) Phenol	5.13	94	378310	44.36092	ppb	98
8) Aniline	5.13	93	374783	42.79163	ppb	# 81
9) Bis (2-chloroethyl) ether	5.22	63	155623	45.59334	ppb	97
10) 2-Chlorophenol	5.28	128	319074	46.50984	ppb	93
11) 1,3-DCB	5.45	146	367844	45.32994	ppb	99
12) 1,4-DCB	5.53	146	378335	45.94569	ppb	98
13) Benzyl alcohol	5.67	108	185573	44.57720	ppb	84
14) 1,2-DCB	5.71	146	350010	45.82011	ppb	95
15) 2-Methylphenol	5.80	107	246612	44.50692	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	155493	52.58086	ppb	88
17) Acetophenone	5.97	105	440813	42.65648	ppb	100
18) 3&4-Methylphenol	5.97	107	649888	87.34488	ppb	96
19) n-Nitrosodi-n-propylamine	5.97	70	224016	41.47280	ppb	95
20) Hexachloroethane	6.09	117	145282	43.11519	ppb	96
23) Nitrobenzene	6.16	77	358736	42.64813	ppb	97
24) Isophorone	6.43	82	587138	42.65860	ppb	97
25) 2-Nitrophenol	6.52	139	183305	49.65616	ppb	86
26) 2,4-Dimethylphenol	6.56	122	276429	44.24574	ppb	89
27) Benzoic acid	6.68	105	266993	48.35885	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	332313	45.66788	ppb	98
29) 2,4-Dichlorophenol	6.80	162	295180	45.16472	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	361560	44.80129	ppb	99
31) 3,4-Dimethylphenol	6.90	107	449661	42.63040	ppb	98
32) Napthalene	6.98	128	923738	45.34897	ppb	100
33) 4-Chloroaniline	7.04	127	356693	45.83986	ppb	# 90
34) 2,6-Dichlorophenol	7.05	162	279332	44.41071	ppb	98
35) Hexachloropropene	7.07	213	328626	42.91036	ppb	99
36) Hexachlorobutadiene	7.12	225	267292	42.78630	ppb	99
37) Caprolactum	7.46	55	86467	48.48727	ppb	93
38) 4-Chloro-3-methylphenol	7.58	107	312455	43.46012	ppb	93

(#) = qualifier out of range (m) = manual integration
 1030Y195.D Y1015NC.M Tue Nov 05 10:31:40 2019

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y195.D
 Acq On : 5 Nov 19 10:52
 Sample : 50ug/ml 8270 10/24/19 (3)
 Misc :

Vial: 95
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 2-Methylnaphthalene	7.76	142	644559	45.40408	ppb	100
40) 1-Methylnaphthalene	7.88	142	659221	45.09795	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	337141	42.16455	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	425433	45.36919	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	257432	44.19371	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	291603	46.13976	ppb	98
47) 1,1'-Biphenyl	8.30	154	838325	45.06356	ppb #	98
48) 2-Chloronaphthalene	8.33	162	700464	44.95768	ppb	97
49) 2-Nitroaniline	8.44	65	190758	43.83798	ppb	94
50) Dimethyl phthalate	8.65	163	860514	44.18978	ppb	100
51) 2,6-DNT	8.72	165	200825	48.61951	ppb	88
52) Acenaphthylene	8.81	152	1063014	45.17524	ppb	99
53) 3-Nitroaniline	8.44	138	221889	49.54267	ppb #	93
54) Acenaphthene	9.01	154	729006	45.80006	ppb	99
55) 2,4-Dinitrophenol	9.03	184	105226	43.41849	ppb	96
56) 4-Nitrophenol	8.72	65	12389m	40.02460	ppb	98
57) Dibenzofuran	9.21	168	1012702	44.40099	ppb	93
58) 2,4-DNT	9.19	165	279490	48.43295	ppb	94
59) 2,3,4,6-Tetrachlorophenol	9.36	232	257770	46.84417	ppb #	89
60) Diethyl phthalate	9.48	149	864491	43.33001	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.61	204	513405	43.74360	ppb	88
62) Fluorene	9.61	166	841862	44.11454	ppb	100
63) 4-Nitroaniline	8.91	138	180535	49.25570	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.67	198	184576	50.39280	ppb #	75
67) Diphenyl amine	9.75	169	1366984	91.30426	ppb	99
68) n-Nitrosodiphenylamine	9.75	169	1366984	91.30426	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	731375	41.39812	ppb #	86
70) 4-Bromophenyl phenyl ether	10.17	248	333785	47.59724	ppb	96
71) Hexachlorobenzene	10.26	284	364135	48.90571	ppb	91
72) Atrazine	10.36	200	132071	21.54479	ppb	97
73) Pentachlorophenol	10.48	266	238331	48.33847	ppb	100
74) Phenanthrene	10.73	178	1249066	45.18669	ppb	99
75) Anthracene	10.79	178	1301131	45.58656	ppb	98
76) Carbazol	10.97	167	1179966	45.98841	ppb	98
77) Di-n-butylphthalate	11.38	149	1485361	45.45591	ppb	96
78) Fluoranthene	12.11	202	1603419	45.79631	ppb	99
80) Benzidine	12.26	184	411805	48.18416	ppb	99
81) Pyrene	12.38	202	1670888	43.58159	ppb	100
83) Butyl benzylphthalate	13.13	149	707362	43.78708	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	691739	52.45970	ppb	99
85) Benz (a) anthracene	13.78	228	1801805	43.45472	ppb	100
86) Bis (2-ethylhexyl) phthala	13.78	149	1017792	43.09579	ppb	97
87) Chrysene	13.82	228	1705851	44.11199	ppb	99
88) Di-n-octylphthalate	14.56	149	1717997	43.94453	ppb	99
90) Benzo (b) fluoranthene	15.11	252	1954720	45.01308	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1722265	43.85674	ppb	99
92) Benzo (a) pyrene	15.59	252	1739127	46.47125	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.60	276	2102136	45.44928	ppb	99
94) Dibenz (a,h) anthracene	17.64	278	1843639	46.72205	ppb	99
95) Benzo (g,h,i) perylene	18.18	276	1672567	45.39117	ppb	99

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

Quantitation Report

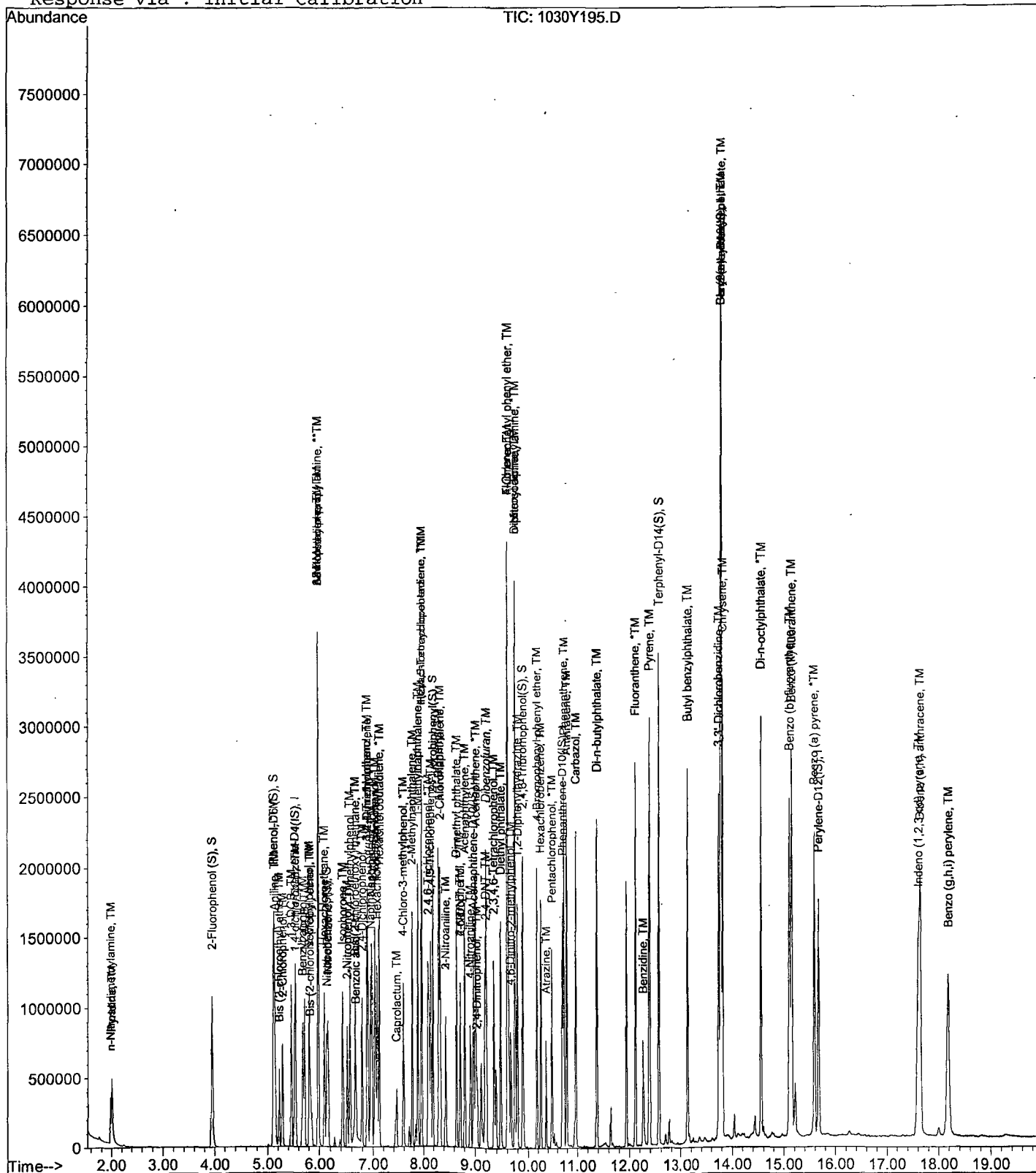
Data File : M:\YODA\DATA\Y191030\1030Y195.D
Acq On : 5 Nov 19 10:52
Sample : 50ug/ml 8270 10/24/19 (3)
Misc :

Vial: 95
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.3063	0.2575	16	
3	TM	n-Nitrosodimethylamine	0.6920	0.5270	24	TM
4	TM	Pyridine	1.349	1.119	17	TM
5	S	2-Fluorophenol (S)	1.319	1.302	1.3	S
6	S	Phenol-D6 (S)	1.495	1.473	1.5	S
7	*TM	Phenol	1.959	1.649	16	*TM
8	TM	Aniline	2.012	1.636	19	TM
9	TM	Bis (2-chloroethyl) ether	0.7840	0.6917	12	TM
10	TM	2-Chlorophenol	1.576	1.404	11	TM
11	TM	1,3-DCB	1.864	1.576	15	TM
12	*TM	1,4-DCB	1.891	1.591	16	*TM
13	TM	Benzyl alcohol	0.9562	0.8095	15	TM
14	TM	1,2-DCB	1.755	1.501	14	TM
15	TM	2-Methylphenol	1.273	1.071	16	TM
16	TM	Bis (2-chloroisopropyl) ether	0.6792	0.7012	3.2	TM
17	TM	Acetophenone	2.374	1.894	20	TM
18	TM	3&4-Methylphenol	1.709	1.395	18	TM
19	**TM	n-Nitrosodi-n-propylamine	1.241	0.9838	21	**TM
20	TM	Hexachloroethane	0.7740	0.6132	21	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.4340	0.4036	7.0	S
23	TM	Nitrobenzene	0.4977	0.4082	18	TM
24	TM	Isophorone	0.8144	0.6724	17	TM
25	*TM	2-Nitrophenol	0.2184	0.2089	4.4	*TM
26	TM	2,4-Dimethylphenol	0.3697	0.3085	17	TM
27	TM	Benzoic acid	0.3267	0.3300	1.0	TM
28	TM	Bis (2-chloroethoxy) methane	0.4305	0.3773	12	TM
29	*TM	2,4-Dichlorophenol	0.3867	0.3331	14	*TM
30	TM	1,2,4-Trichlorobenzene	0.4775	0.3962	17	TM
31	TM	3,4-Dimethylphenol	0.6241	0.4968	20	TM
32	TM	Napthalene	1.205	1.032	14	TM
33	TM	4-Chloroaniline	0.4604	0.3950	14	TM
34	TM	2,6-Dichlorophenol	0.3721	0.3194	14	TM
35	TM	Hexachloropropene	0.4531	0.3445	24	TM
36	*TM	Hexachlorobutadiene	0.3696	0.2977	19	*TM
37	TM	Caprolactum	0.1055	0.1003	4.9	TM
38	*TM	4-Chloro-3-methylphenol	0.4254	0.3515	17	*TM
39	TM	2-Methylnapthalene	0.8399	0.7173	15	TM
40	TM	1-Methylnapthalene	0.8649	0.7308	16	TM

Average

14.3

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TM	Hexachlorocyclopentadiene	0.7712	0.5675	26	**TM
43	TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.7751	14	TM
44	*TM	2,4,6-Trichlorophenol	0.5618	0.4877	13	*TM
45	TM	2,4,5-Trichlorophenol	0.6095	0.5401	11	TM
46	S	2-Fluorobiphenyl(S)	1.550	1.561	0.69	S
47	TM	1,1'-Biphenyl	1.794	1.567	13	TM
48	TM	2-Chloronaphthalene	1.503	1.304	13	TM
49	TM	2-Nitroaniline	0.4197	0.3568	15	TM
50	TM	Dimethyl phthalate	1.878	1.630	13	TM
51	TM	2,6-DNT	0.3984	0.3759	5.6	TM
52	TM	Acenaphthylene	2.269	1.997	12	TM
53	TM	3-Nitroaniline	0.4320	0.4132	4.3	TM
54	*TM	Acenaphthene	1.535	1.371	11	*TM
55	**TM	2,4-Dinitrophenol	0.2337	0.2397	2.6	**TM
56	**TM	4-Nitrophenol	0.0299	0.0231	23	**TM
57	TM	Dibenzofuran	2.200	1.882	14	TM
58	TM	2,4-DNT	0.5566	0.5202	6.5	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.4657	12	TM
60	TM	Diethyl phthalate	1.924	1.615	16	TM
61	TM	4-Chlorophenyl phenyl ether	1.132	0.9328	18	TM
62	TM	Fluorene	1.841	1.548	16	TM
63	TM	4-Nitroaniline	0.3535	0.3432	2.9	TM
64	S	2,4,6-Tribromophenol(S)	0.3401	0.3758	10	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1586	1.7	TM
67	TM	Diphenyl amine	0.6596	0.5778	12	TM
68	*TM	n-Nitrosodiphenylamine	0.6596	0.5778	12	*TM
69	TM	1,2-Diphenylhydrazine	0.7783	0.6274	19	TM
70	TM	4-Bromophenyl phenyl ether	0.3089	0.2811	9.0	TM
71	TM	Hexachlorobenzene	0.3280	0.3009	8.3	TM
72	TM	Atrazine	0.2701	0.2085	23	TM
73	*TM	Pentachlorophenol	0.2172	0.1931	11	*TM
74	TM	Phenanthrene	1.218	1.052	14	TM
75	TM	Anthracene	1.257	1.113	11	TM
76	TM	Carbazol	1.130	0.9970	12	TM
77	TM	Di-n-butylphthalate	1.440	1.253	13	TM
78	*TM	Fluoranthene	1.542	1.361	12	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3142	0.2594	17	TM

Average

12.1

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.410	1.212	14	TM
82	S	Terphenyl-D14(S)	0.9572	0.9941	3.9	S
83	TM	Butyl benzylphthalate	0.5939	0.5028	15	TM
84	TM	3,3'-Dichlorobenzidine	0.4848	0.5011	3.4	TM
85	TM	Benz (a) anthracene	1.524	1.295	15	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7292	16	TM
87	TM	Chrysene	1.422	1.216	14	TM
88	*TM	Di-n-octylphthalate	1.437	1.241	14	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.453	1.316	9.5	TM
91	TM	Benzo (k) fluoranthene	1.314	1.047	20	TM
92	*TM	Benzo (a) pyrene	1.252	1.120	11	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.548	1.324	14	TM
94	TM	Dibenz (a,h) anthracene	1.320	1.159	12	TM
95	TM	Benzo (g,h,i) perylene	1.233	1.058	14	TM
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Average

12.6

Data File : M:\YODA\DATA\Y191030\1030Y220.D
 Acq On : 5 Nov 19 22:45
 Sample : 50ug/ml 8270 10/24/19 (2)
 Misc :

Vial: 20
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 6 7:46 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	165446	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	635668	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	379878	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	830093	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	972758	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1066687	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.95	112	538375	98.66875	ppb	0.03
Spiked Amount	200.000			Recovery =	49.335%	
6) Phenol-D6 (S)	5.11	99	609164	98.54608	ppb	0.02
Spiked Amount	200.000			Recovery =	49.273%	
22) Nitrobenzene-D5 (S)	6.14	82	320684	46.49564	ppb	0.00
Spiked Amount	100.000			Recovery =	46.496%	
46) 2-Fluorobiphenyl (S)	8.19	172	741000	50.34549	ppb	0.00
Spiked Amount	100.000			Recovery =	50.345%	
64) 2,4,6-Tribromophenol (S)	9.90	330	356856	110.48672	ppb	0.00
Spiked Amount	200.000			Recovery =	55.244%	
82) Terphenyl-D14 (S)	12.56	244	1208729	51.92666	ppb	0.00
Spiked Amount	100.000			Recovery =	51.927%	

Target Compounds

						Qvalue
3) n-Nitrosodimethylamine	1.97	42	108978	38.07203	ppb	97
4) Pyridine	2.00	79	231369	41.46391	ppb	99
7) Phenol	5.13	94	341024	42.09179	ppb	98
8) Aniline	5.13	93	338306	40.65822	ppb	90
9) Bis (2-chloroethyl) ether	5.22	63	143040	44.11079	ppb	94
10) 2-Chlorophenol	5.28	128	290345	44.54793	ppb	94
11) 1,3-DCB	5.45	146	325895	42.27259	ppb	99
12) 1,4-DCB	5.53	146	329014	42.05740	ppb	99
13) Benzyl alcohol	5.67	108	167418	42.33113	ppb	85
14) 1,2-DCB	5.71	146	310439	42.77713	ppb	97
15) 2-Methylphenol	5.80	107	221595	42.09524	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	145004	51.61270	ppb	83
17) Acetophenone	5.97	105	391786	39.90610	ppb	97
18) 3&4-Methylphenol	5.97	107	576953	81.62048	ppb	99
19) n-Nitrosodi-n-propylamine	5.97	70	203466	39.64934	ppb	92
20) Hexachloroethane	6.09	117	126818	39.61495	ppb	99
23) Nitrobenzene	6.16	77	324331	41.00732	ppb	96
24) Isophorone	6.43	82	534252	41.28196	ppb	96
25) 2-Nitrophenol	6.52	139	165984	47.82036	ppb	86
26) 2,4-Dimethylphenol	6.56	122	245126	41.72776	ppb	92
27) Benzoic acid	6.68	105	262197	50.50701	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	299828	43.82113	ppb	98
29) 2,4-Dichlorophenol	6.80	162	264703	43.07439	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	314804	41.48568	ppb	99
31) 3,4-Dimethylphenol	6.90	107	394754	39.80234	ppb	96
32) Napthalene	6.98	128	819948	42.81074	ppb	99
33) 4-Chloroaniline	7.03	127	313884	42.90083	ppb	96
34) 2,6-Dichlorophenol	7.05	162	253758	42.90763	ppb	99
35) Hexachloropropene	7.08	213	273710	38.01007	ppb	100
36) Hexachlorobutadiene	7.12	225	236546	40.27006	ppb	99
37) Caprolactum	7.44	55	79706	47.53529	ppb	93
38) 4-Chloro-3-methylphenol	7.58	107	279315	41.31859	ppb	92

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

Data File : M:\YODA\DATA\Y191030\1030Y220.D
 Acq On : 5 Nov 19 22:45
 Sample : 50ug/ml 8270 10/24/19 (2)
 Misc :

Vial: 20
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 6 7:46 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 2-Methylnaphthalene	7.76	142	569920	42.69666	ppb	99
40) 1-Methylnaphthalene	7.88	142	580665	42.24733	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	269477	36.79522	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	368032	42.84985	ppb	96
44) 2,4,6-Trichlorophenol	8.09	196	231593	43.40675	ppb	98
45) 2,4,5-Trichlorophenol	8.14	196	256454	44.30234	ppb	96
47) 1,1'-Biphenyl	8.30	154	744040	43.66598	ppb #	99
48) 2-Chloronaphthalene	8.33	162	619237	43.39192	ppb	95
49) 2-Nitroaniline	8.44	65	169407	42.50431	ppb	91
50) Dimethyl phthalate	8.65	163	773812	43.38436	ppb	98
51) 2,6-DNT	8.72	165	178496	47.17969	ppb	84
52) Acenaphthylene	8.81	152	948168	43.99270	ppb	99
53) 3-Nitroaniline	8.44	138	196196	47.82639	ppb #	93
54) Acenaphthene	9.01	154	651094	44.65936	ppb	98
55) 2,4-Dinitrophenol	9.03	184	113839	51.28338	ppb	98
56) 4-Nitrophenol	8.72	65	10978	38.72112	ppb	97
57) Dibenzofuran	9.21	168	893623	42.77591	ppb	93
58) 2,4-DNT	9.19	165	247008	46.73255	ppb	91
59) 2,3,4,6-Tetrachlorophenol	9.35	232	221130	43.87375	ppb	97
60) Diethyl phthalate	9.47	149	766758	41.95855	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	442922	41.20174	ppb	88
62) Fluorene	9.61	166	734875	42.04247	ppb	100
63) 4-Nitroaniline	8.91	138	162956	48.53995	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.66	198	164585	49.15011	ppb	91
67) Diphenyl amine	9.75	169	1199022	87.59830	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	1199022	87.59830	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	651007	40.30576	ppb #	85
70) 4-Bromophenyl phenyl ether	10.17	248	291683	45.49535	ppb	95
71) Hexachlorobenzene	10.26	284	312243	45.87021	ppb	90
72) Atrazine	10.36	200	108181	19.30309	ppb	98
73) Pentachlorophenol	10.48	266	200332	44.44302	ppb	99
74) Phenanthrene	10.73	178	1091571	43.19347	ppb	99
75) Anthracene	10.79	178	1155082	44.26593	ppb	99
76) Carbazol	10.97	167	1034468	44.09983	ppb	99
77) Di-n-butylphthalate	11.38	149	1300257	43.52397	ppb #	96
78) Fluoranthene	12.11	202	1412278	44.12093	ppb	99
80) Benzidine	12.26	184	315396	41.27503	ppb	98
81) Pyrene	12.38	202	1473717	42.99206	ppb	100
83) Butyl benzylphthalate	13.13	149	611418	42.33124	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	609361	51.68645	ppb	98
85) Benz (a) anthracene	13.78	228	1574442	42.46922	ppb	99
86) Bis (2-ethylhexyl) phthala	13.78	149	886636	41.98940	ppb	97
87) Chrysene	13.81	228	1478783	42.76993	ppb	99
88) Di-n-octylphthalate	14.56	149	1508592	43.15914	ppb	99
90) Benzo (b) fluoranthene	15.11	252	1754045	45.26605	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1396130	39.84189	ppb	100
92) Benzo (a) pyrene	15.59	252	1493225	44.71529	ppb	100
93) Indeno (1,2,3-cd) pyrene	17.59	276	1765685	42.78161	ppb	98
94) Dibenz (a,h) anthracene	17.64	278	1545935	43.90510	ppb	98
95) Benzo (g,h,i) perylene	18.17	276	1410478	42.89749	ppb	98

Quantitation Report

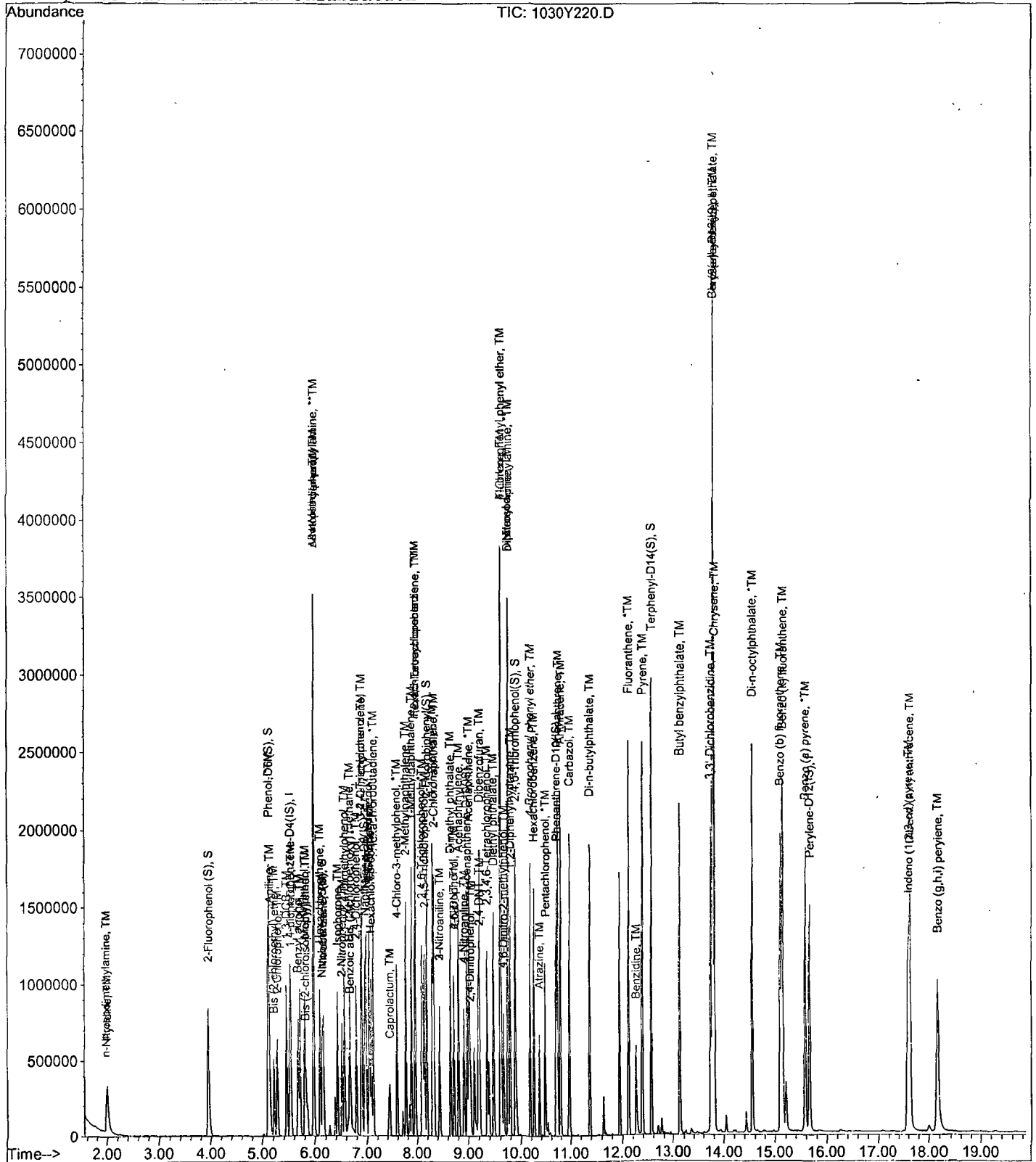
Data File : M:\YODA\DATA\Y191030\1030Y220.D
Acq On : 5 Nov 19 22:45
Sample : 50ug/ml 8270 10/24/19 (2)
Misc :

Vial: 20
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Nov 6 7:46 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y191030\1030Y199.D Vial: 99
 Acq On : 5 Nov 19 12:52 Operator: MA,SS
 Sample : BA01775W11 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 6 8:36 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	124716	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	488156	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	411702	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	898255	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	976452	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1128094	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.96	112	866822	263.43215	ppb	0.04
Spiked Amount 250.000			Recovery =	105.373%		
6) Phenol-D6 (S)	5.11	99	1042590	279.68090	ppb	0.02
Spiked Amount 250.000			Recovery =	111.872%		
22) Nitrobenzene-D5 (S)	6.14	82	549775	129.74830	ppb	0.00
Spiked Amount 125.000			Recovery =	103.798%		
46) 2-Fluorobiphenyl (S)	8.19	172	1286529	100.81685	ppb	0.00
Spiked Amount 125.000			Recovery =	80.654%		
64) 2,4,6-Tribromophenol (S)	9.89	330	633621	226.26524	ppb	0.00
Spiked Amount 250.000			Recovery =	90.506%		
82) Terphenyl-D14 (S)	12.56	244	2145777	114.79156	ppb	0.00
Spiked Amount 125.000			Recovery =	91.834%		

Target Compounds Qvalue

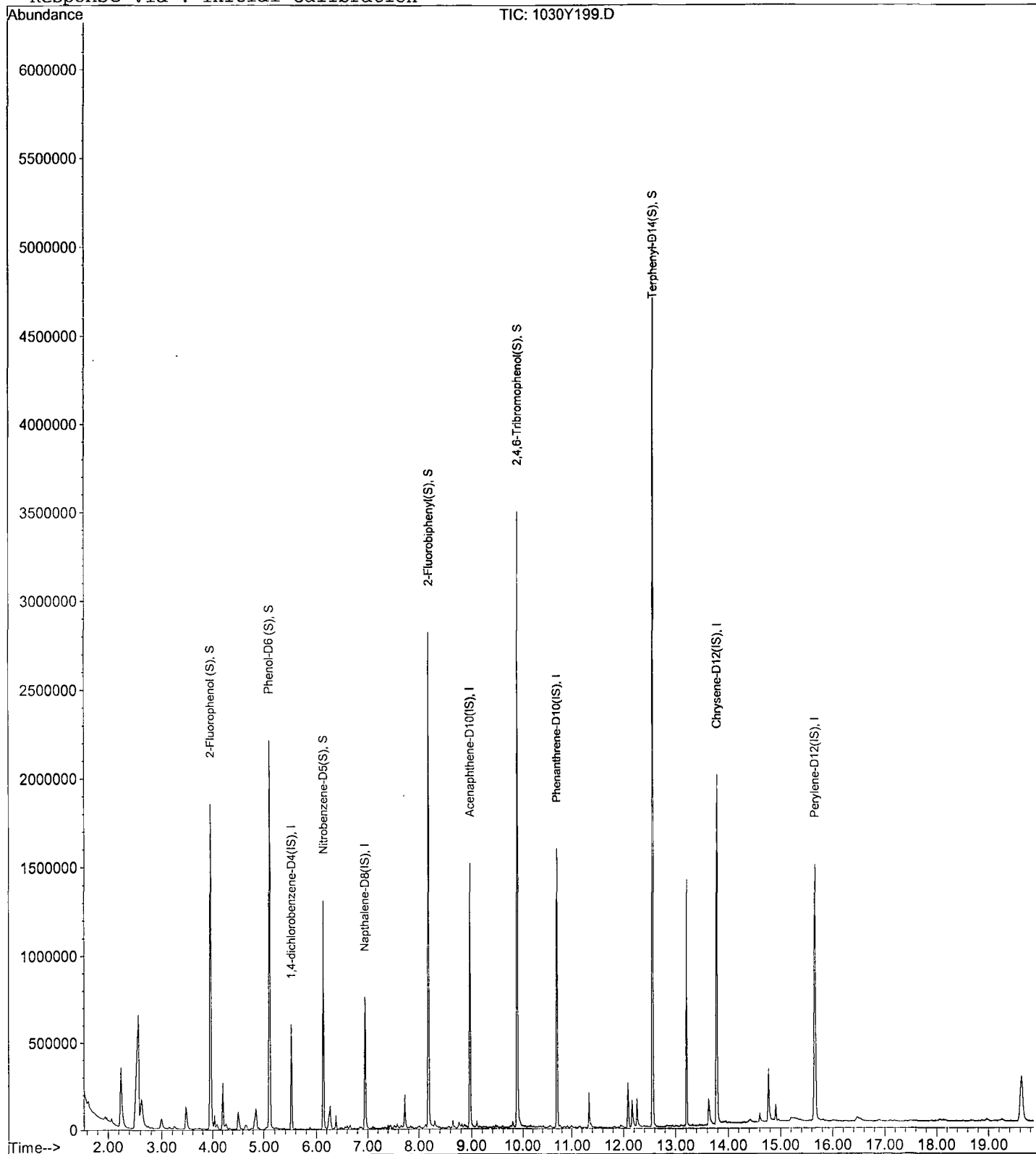
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Acq On : 5 Nov 19 12:52
Sample : BA01775W11 1/800
Misc :

Vial: 99
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:36 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y200.D Vial: 100
 Acq On : 5 Nov 19 13:20 Operator: MA,SS
 Sample : BA01777W10 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 6 8:37 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	135799	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	508467	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	421031	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.69	188	930277	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1010276	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1158759	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	730104	203.77419	ppb	0.04
Spiked Amount	250.000		Recovery	=	81.510%	
6) Phenol-D6 (S)	5.11	99	892169	219.79711	ppb	0.02
Spiked Amount	250.000		Recovery	=	87.919%	
22) Nitrobenzene-D5 (S)	6.14	82	542872	123.00138	ppb	0.00
Spiked Amount	125.000		Recovery	=	98.401%	
46) 2-Fluorobiphenyl (S)	8.19	172	1266343	97.03621	ppb	0.00
Spiked Amount	125.000		Recovery	=	77.629%	
64) 2,4,6-Tribromophenol (S)	9.89	330	599936	209.48942	ppb	0.00
Spiked Amount	250.000		Recovery	=	83.796%	
82) Terphenyl-D14 (S)	12.56	244	2088875	108.00620	ppb	0.00
Spiked Amount	125.000		Recovery	=	86.405%	

Target Compounds Qvalue

Quantitation Report

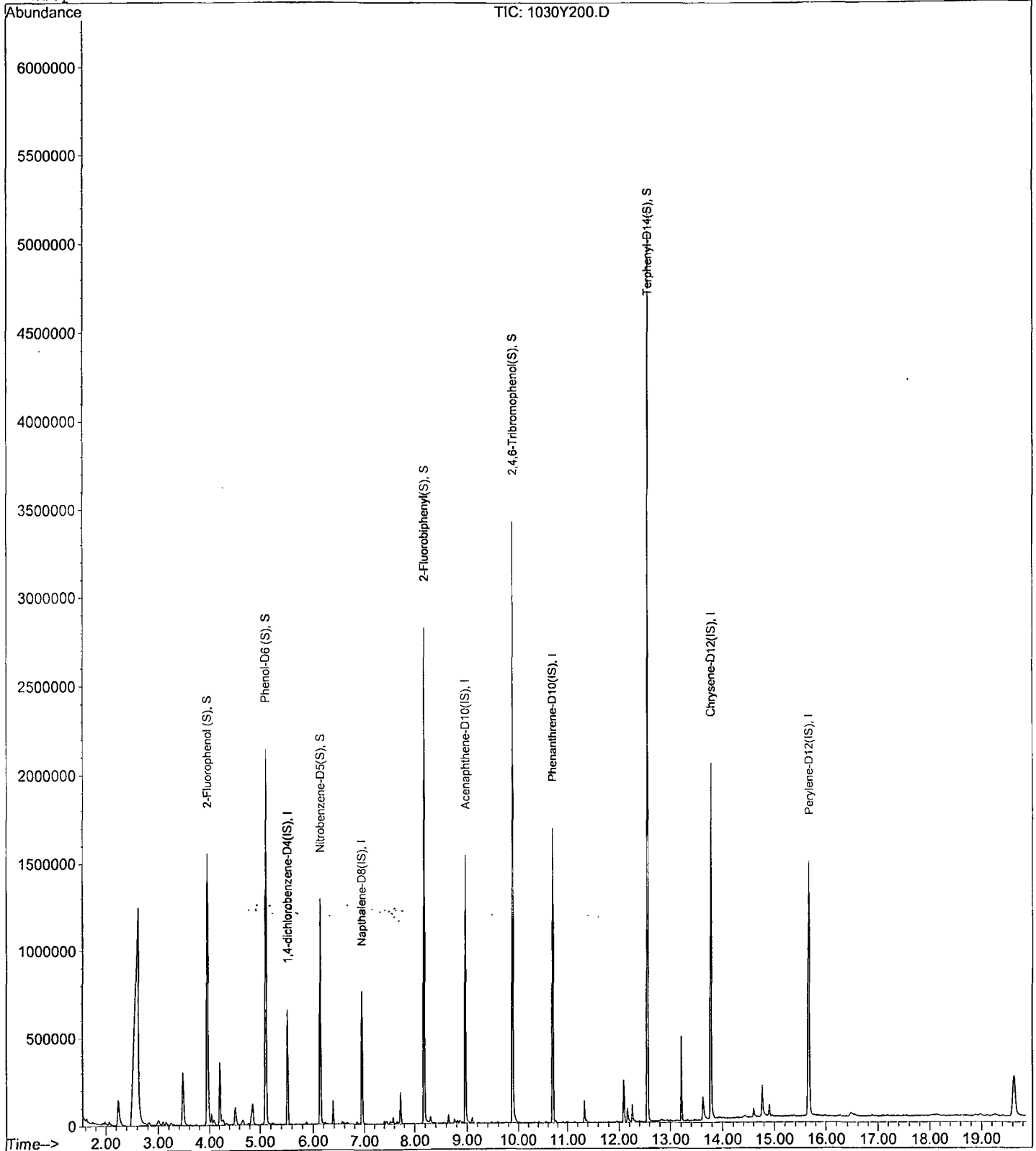
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Acq On : 5 Nov 19 13:20
Sample : BA01777W10 1/800
Misc :

Vial: 100
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:37 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y201.D Vial: 1
 Acq On : 5 Nov 19 13:48 Operator: MA,SS
 Sample : BA01779W11 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 6 8:41 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	148533	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	561967	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	431981	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	966815	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1047125	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1174953	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	756750	193.10366	ppb	0.04
Spiked Amount	250.000		Recovery	=	77.242%	
6) Phenol-D6 (S)	5.11	99	918768	206.94471	ppb	0.02
Spiked Amount	250.000		Recovery	=	82.778%	
22) Nitrobenzene-D5 (S)	6.14	82	549679	112.68695	ppb	0.00
Spiked Amount	125.000		Recovery	=	90.150%	
46) 2-Fluorobiphenyl (S)	8.19	172	1289926	96.33779	ppb	0.00
Spiked Amount	125.000		Recovery	=	77.070%	
64) 2,4,6-Tribromophenol (S)	9.89	330	623923	212.34283	ppb	0.00
Spiked Amount	250.000		Recovery	=	84.937%	
82) Terphenyl-D14 (S)	12.56	244	2131033	106.30848	ppb	0.00
Spiked Amount	125.000		Recovery	=	85.046%	
Target Compounds						
26) 2,4-Dimethylphenol	6.57	122	22173	5.33691	ppb	Qvalue 80

Quantitation Report

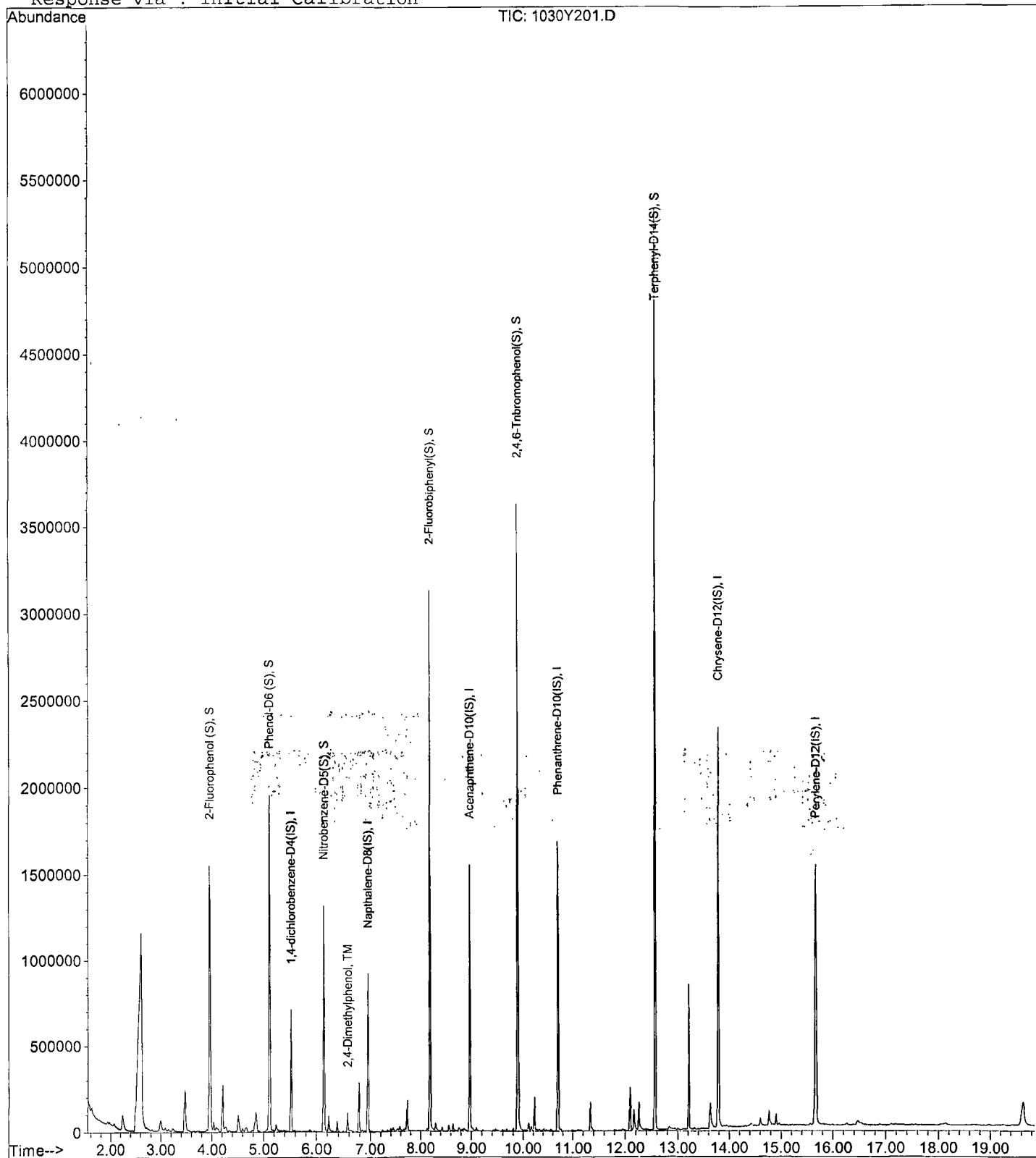
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Acq On : 5 Nov 19 13:48
Sample : BA01779W11 1/800
Misc :

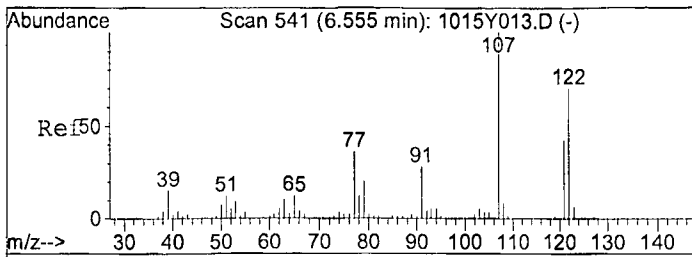
Vial: 1
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:41 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration

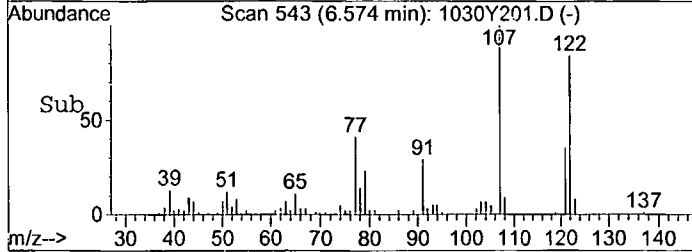
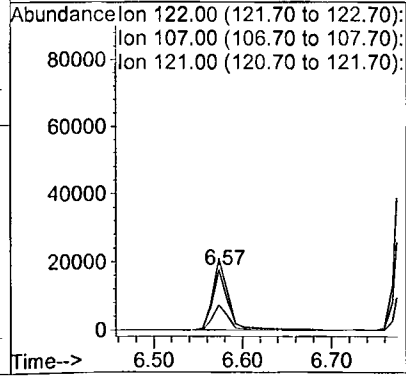
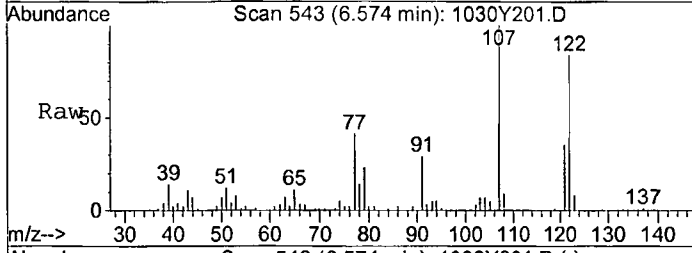




#26
 2,4-Dimethylphenol
 Concen: 5.33691 ppb
 RT: 6.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: 1030Y201.D
 Acq: 5 Nov 19 13:48

Tgt Ion:122 Resp: 22173

Ion	Ratio	Lower	Upper
122	100		
107	119.0	99.5	184.9
121	42.2	41.8	77.6



Data File : M:\YODA\DATA\Y191030\1030Y202.D
 Acq On : 5 Nov 19 14:16
 Sample : BA01781W10 1/800
 Misc :

Vial: 2
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:45 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	136200	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	528905	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	417130	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	896973	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	979136	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1100920	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	889574	247.55175	ppb	0.04
Spiked Amount	250.000		Recovery	=	99.021%	
6) Phenol-D6 (S)	5.11	99	1072898	263.54377	ppb	0.02
Spiked Amount	250.000		Recovery	=	105.418%	
22) Nitrobenzene-D5 (S)	6.14	82	576504	125.57407	ppb	0.00
Spiked Amount	125.000		Recovery	=	100.459%	
46) 2-Fluorobiphenyl (S)	8.18	172	1318221	101.95613	ppb	0.00
Spiked Amount	125.000		Recovery	=	81.565%	
64) 2,4,6-Tribromophenol (S)	9.89	330	636248	224.24680	ppb	0.00
Spiked Amount	250.000		Recovery	=	89.699%	
82) Terphenyl-D14 (S)	12.56	244	2188523	116.75739	ppb	0.00
Spiked Amount	125.000		Recovery	=	93.406%	
Target Compounds						Qvalue
26) 2,4-Dimethylphenol	6.58	122	22451	5.74162	ppb	79
31) 3,4-Dimethylphenol	6.78	107	96710	14.64927	ppb	83

Quantitation Report

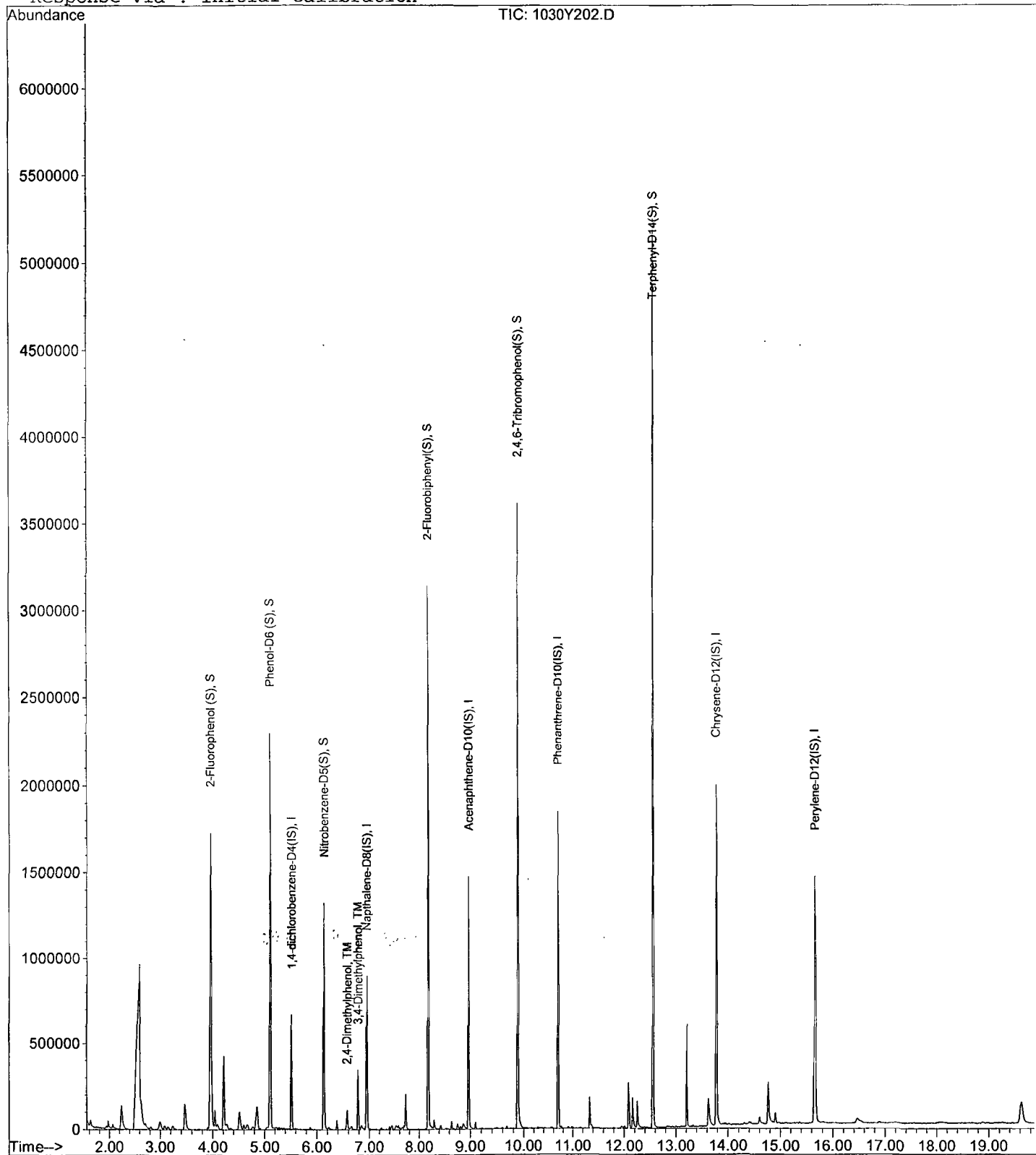
Data File : M:\YODA\DATA\Y191030\1030Y202.D
Acq On : 5 Nov 19 14:16
Sample : BA01781W10 1/800
Misc :

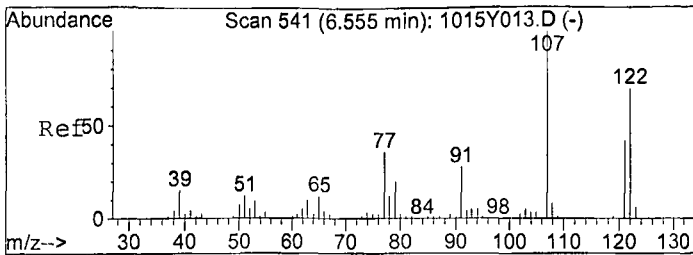
Vial: 2
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:45 2019

Quant Results File: Y1015NC.RES

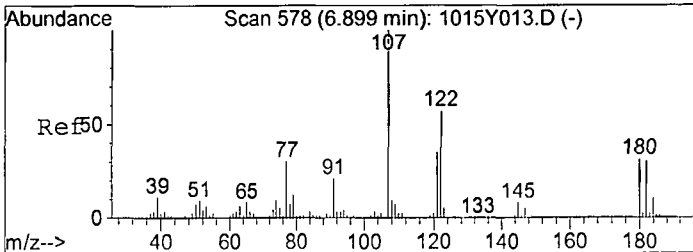
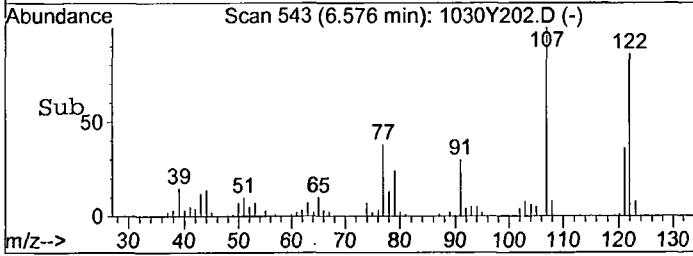
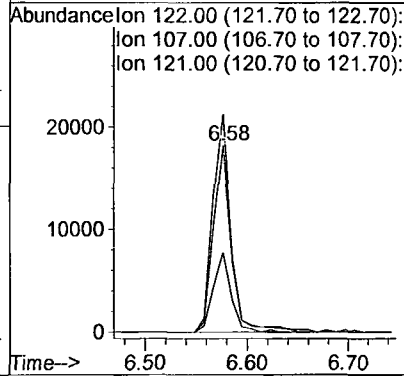
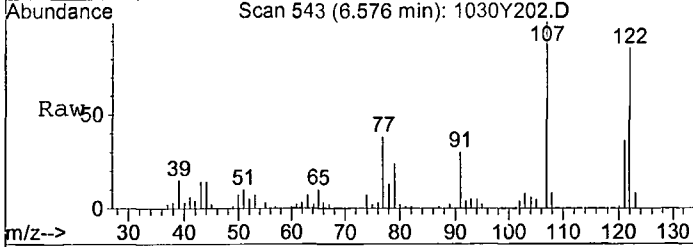
Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration





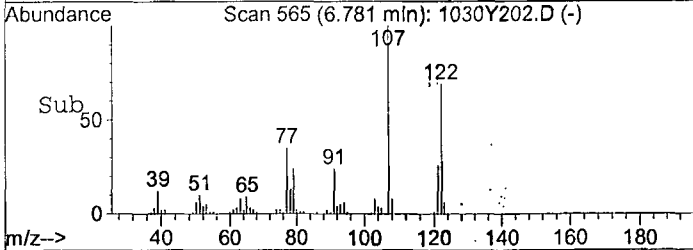
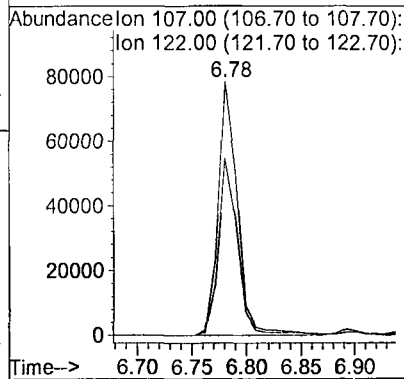
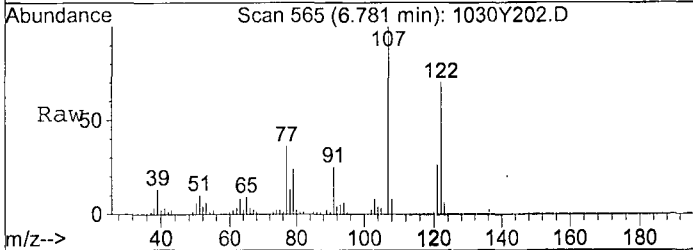
#26
 2,4-Dimethylphenol
 Concen: 5.74162 ppb
 RT: 6.58 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: 1030Y202.D
 Acq: 5 Nov 19 14:16

Tgt Ion	Resp	Lower	Upper
122	22451		
107	116.9	99.5	184.9
121	42.6	41.8	77.6



#31
 3,4-Dimethylphenol
 Concen: 14.64927 ppb
 RT: 6.78 min Scan# 565
 Delta R.T. -0.12 min
 Lab File: 1030Y202.D
 Acq: 5 Nov 19 14:16

Tgt Ion	Resp	Lower	Upper
107	96710		
122	69.7	39.9	74.1



Data File : M:\YODA\DATA\Y191030\1030Y203.D
 Acq On : 5 Nov 19 14:44
 Sample : BA01782W10 1/800
 Misc :

Vial: 3
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:48 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	149058	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.96	136	558956	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	428417	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	919476	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1018127	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1137498	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	864238	219.75517	ppb	0.04
Spiked Amount	250.000		Recovery	=	87.902%	
6) Phenol-D6 (S)	5.11	99	1041449	233.75136	ppb	0.02
Spiked Amount	250.000		Recovery	=	93.500%	
22) Nitrobenzene-D5 (S)	6.14	82	557725	114.95234	ppb	0.00
Spiked Amount	125.000		Recovery	=	91.962%	
46) 2-Fluorobiphenyl (S)	8.19	172	1295115	97.52999	ppb	0.00
Spiked Amount	125.000		Recovery	=	78.024%	
64) 2,4,6-Tribromophenol (S)	9.89	330	628403	215.64669	ppb	0.00
Spiked Amount	250.000		Recovery	=	86.259%	
82) Terphenyl-D14 (S)	12.56	244	2169079	111.28835	ppb	0.00
Spiked Amount	125.000		Recovery	=	89.030%	
Target Compounds						Qvalue
26) 2,4-Dimethylphenol	6.57	122	22504	5.44576	ppb	86
31) 3,4-Dimethylphenol	6.78	107	100958	14.47057	ppb	86
86) Bis (2-ethylhexyl) phthala	13.79	149	108714	6.14883	ppb	98

Quantitation Report

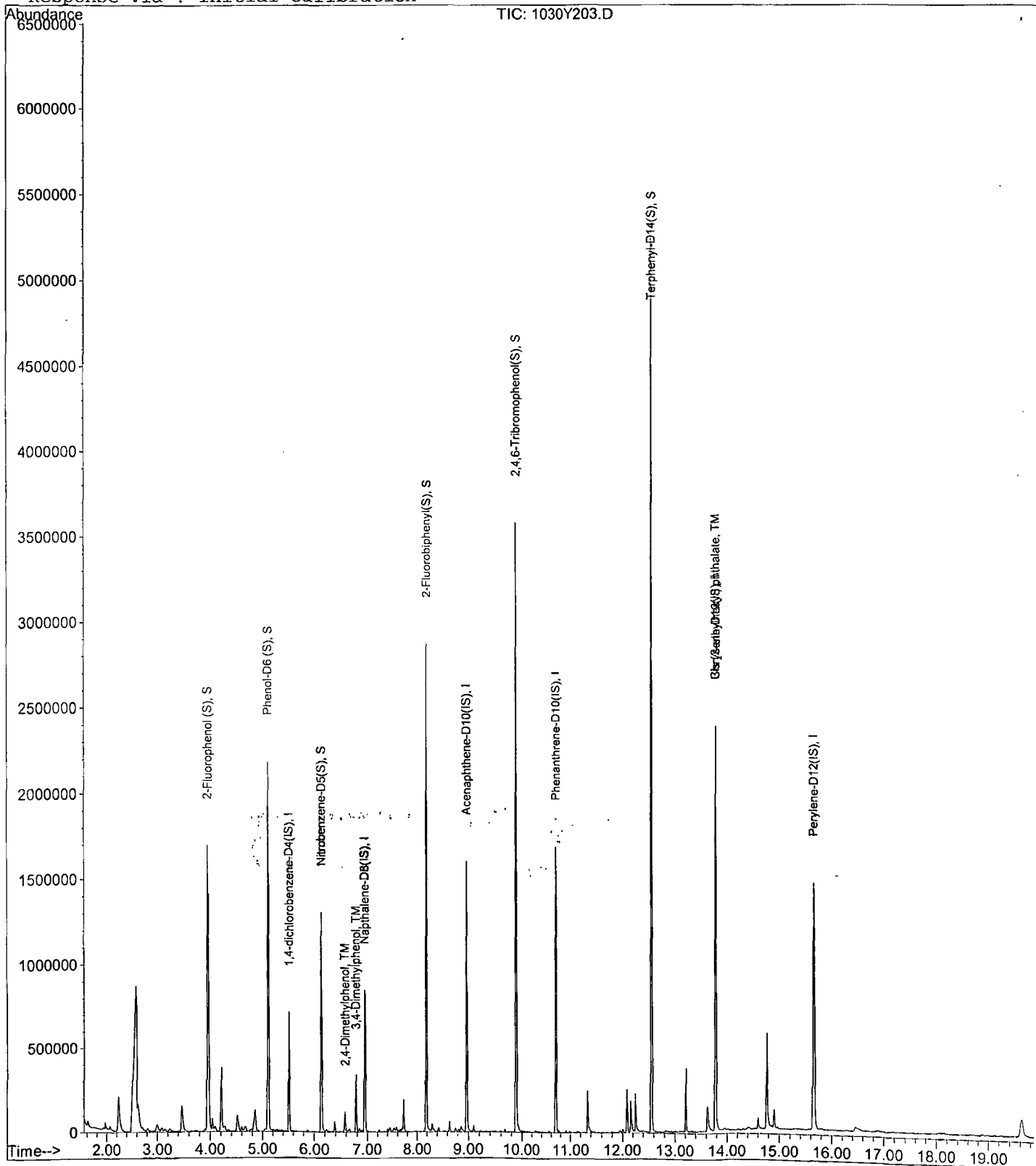
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Acq On : 5 Nov 19 14:44
Sample : BA01782W10 1/800
Misc :

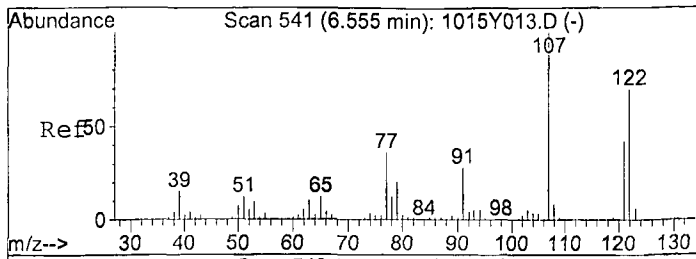
Vial: 3
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:48 2019

Quant Results File: Y1015NC.RES

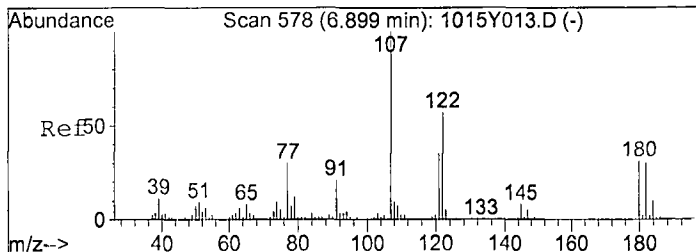
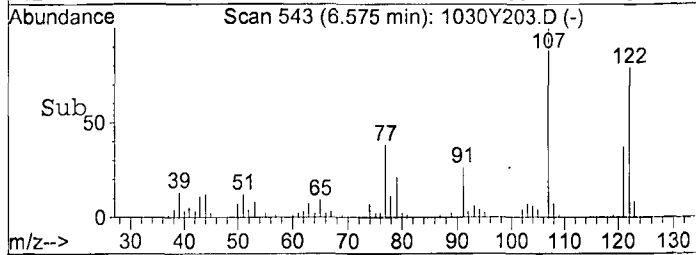
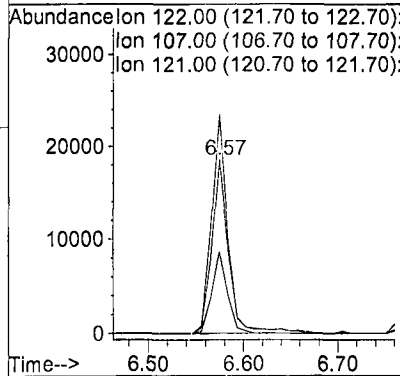
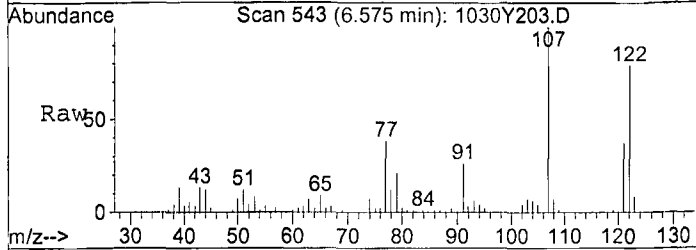
Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration





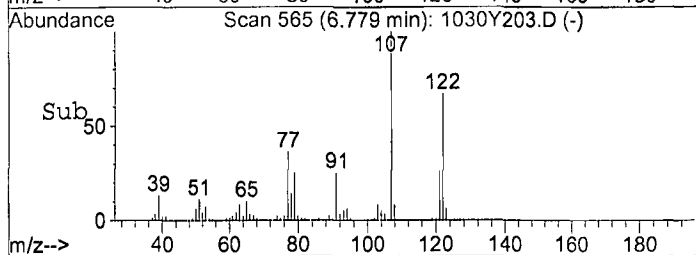
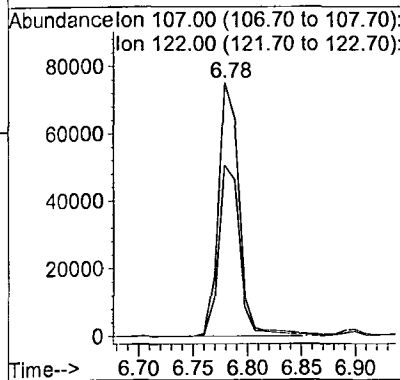
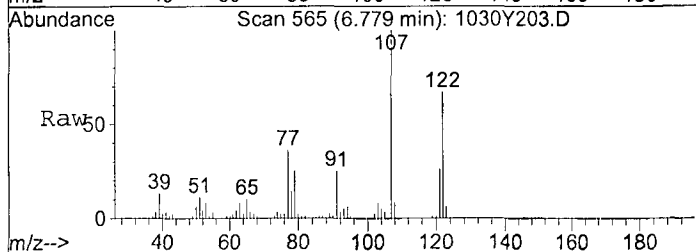
#26
 2,4-Dimethylphenol
 Concen: 5.44576 ppb
 RT: 6.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: 1030Y203.D
 Acq: 5 Nov 19 14:44

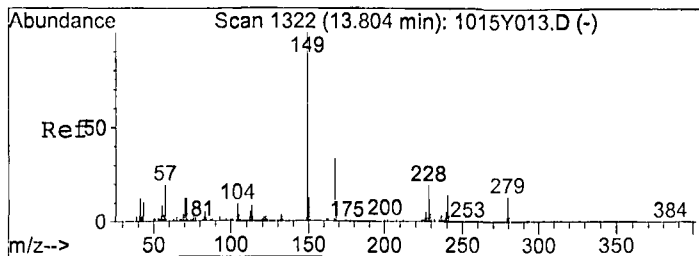
Tgt Ion	Resp	Lower	Upper
122	22504		
107	126.4	99.5	184.9
121	47.0	41.8	77.6



#31
 3,4-Dimethylphenol
 Concen: 14.47057 ppb
 RT: 6.78 min Scan# 565
 Delta R.T. -0.12 min
 Lab File: 1030Y203.D
 Acq: 5 Nov 19 14:44

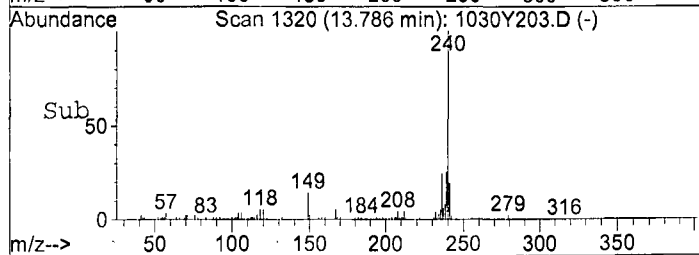
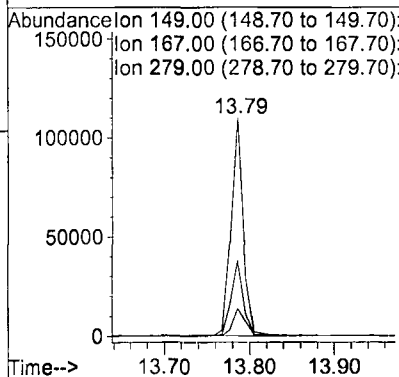
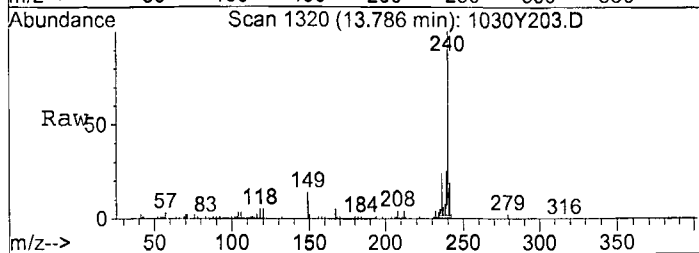
Tgt Ion	Resp	Lower	Upper
107	100958		
122	67.4	39.9	74.1





#86
 Bis (2-ethylhexyl) phthalate
 Concen: 6.14883 ppb
 RT: 13.79 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: 1030Y203.D
 Acq: 5 Nov 19 14:44

Tgt Ion	Ratio	Lower	Upper
149	100		
167	34.3	23.0	42.6
279	12.5	9.1	16.9



Data File : M:\YODA\DATA\Y191030\1030Y216.D
 Acq On : 5 Nov 19 20:52
 Sample : BA01784W14 1/800
 Misc :

Vial: 16
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 8 9:18 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	148035	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	579102	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	464445	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	1009983	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1100121	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1223568	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	906747	232.15752	ppb	0.04
Spiked Amount 250.000			Recovery =	92.863%		
6) Phenol-D6 (S)	5.11	99	1088166	245.92471	ppb	0.02
Spiked Amount 250.000			Recovery =	98.370%		
22) Nitrobenzene-D5 (S)	6.14	82	572298	113.85247	ppb	0.00
Spiked Amount 125.000			Recovery =	91.082%		
46) 2-Fluorobiphenyl (S)	8.19	172	1343348	93.31485	ppb	0.00
Spiked Amount 125.000			Recovery =	74.652%		
64) 2,4,6-Tribromophenol (S)	9.89	330	645437	204.31056	ppb	0.00
Spiked Amount 250.000			Recovery =	81.724%		
82) Terphenyl-D14 (S)	12.56	244	2187319	103.85991	ppb	0.00
Spiked Amount 125.000			Recovery =	83.088%		
Target Compounds						
26) 2,4-Dimethylphenol	6.57	122	12411	2.89886	ppb	82
31) 3,4-Dimethylphenol	6.78	107	52356	7.24325	ppb	86

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

Quantitation Report

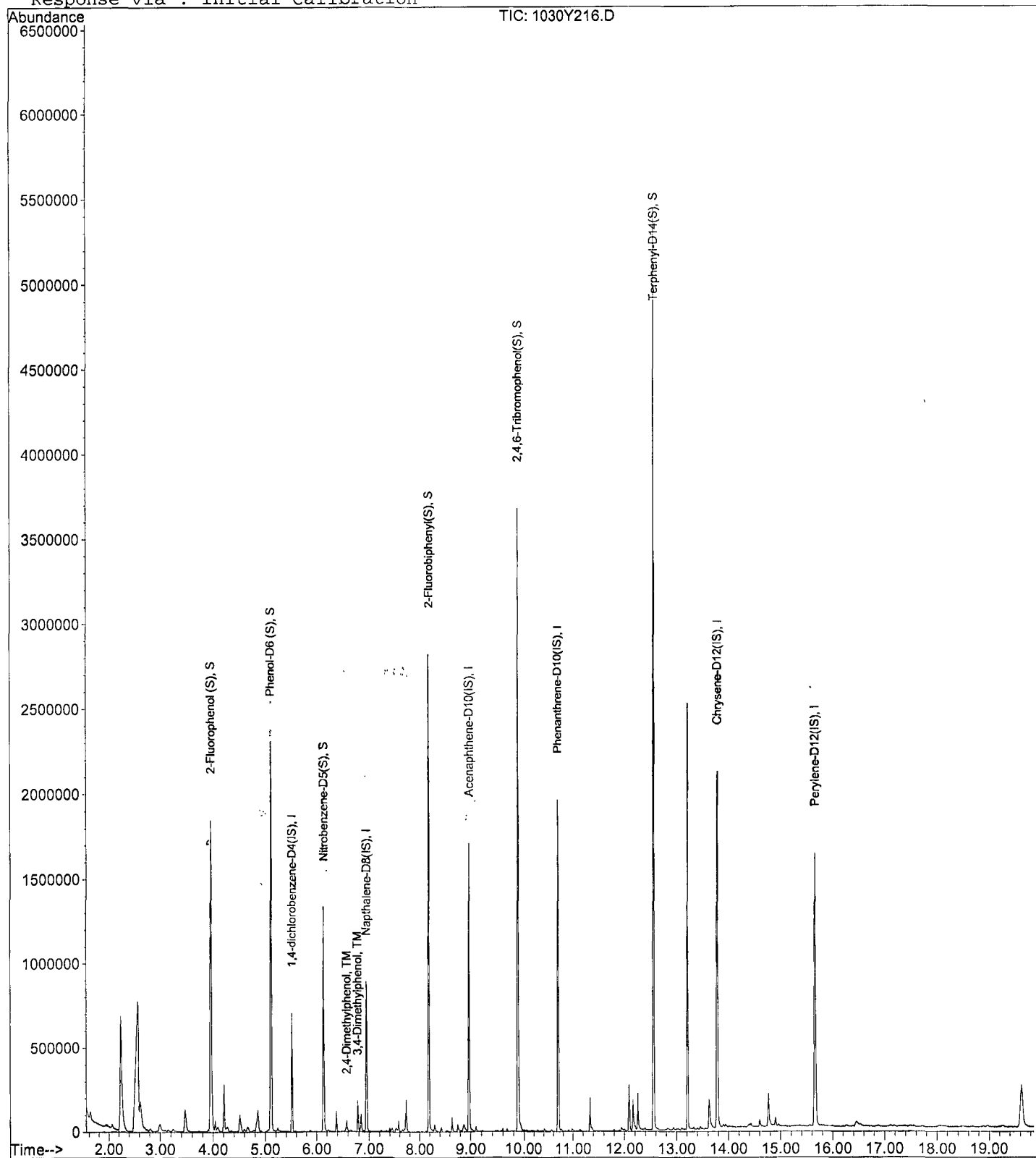
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Acq On : 5 Nov 19 20:52
Sample : BA01784W14 1/800
Misc :

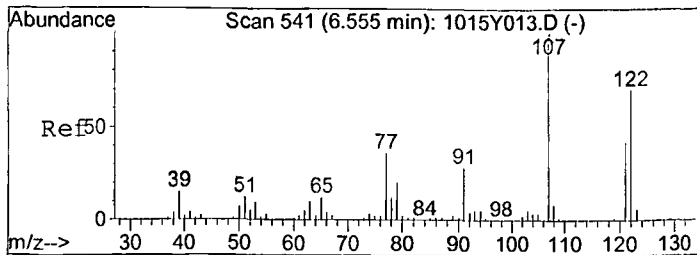
Vial: 16
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 8 9:18 2019

Quant Results File: Y1015NC.RES

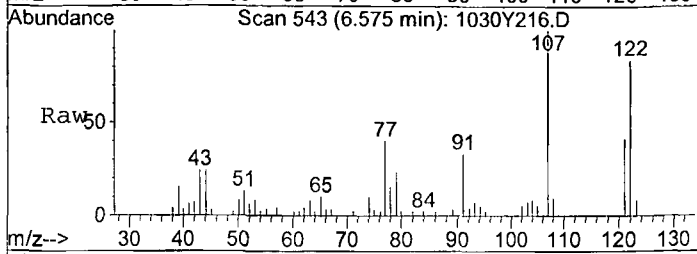
Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



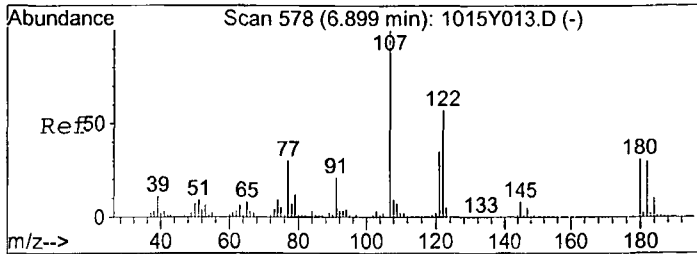
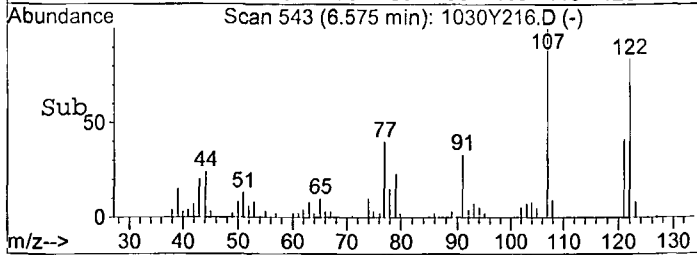
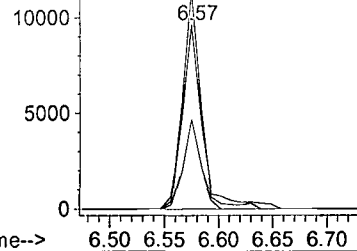


#26
 2,4-Dimethylphenol
 Concen: 2.89886 ppb
 RT: 6.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: 1030Y216.D
 Acq: 5 Nov 19 20:52

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
122	12411	122	100		
107	118.7	107	99.5	184.9	
121	48.5	121	41.8	77.6	

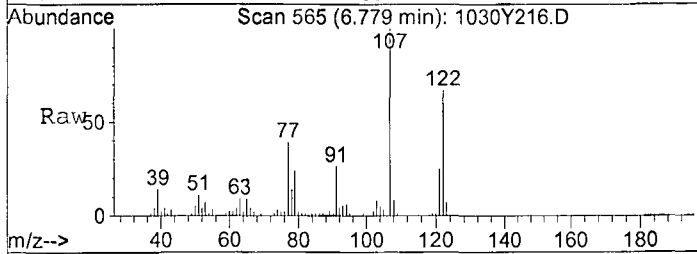


Abundance Ion 122.00 (121.70 to 122.70):
 Ion 107.00 (106.70 to 107.70):
 Ion 121.00 (120.70 to 121.70):

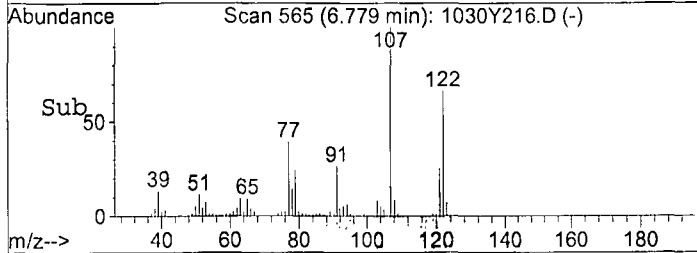
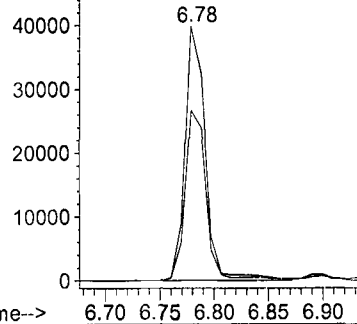


#31
 3,4-Dimethylphenol
 Concen: 7.24325 ppb
 RT: 6.78 min Scan# 565
 Delta R.T. -0.12 min
 Lab File: 1030Y216.D
 Acq: 5 Nov 19 20:52

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
107	52356	107	100		
122	66.9	122	39.9	74.1	



Abundance Ion 107.00 (106.70 to 107.70):
 Ion 122.00 (121.70 to 122.70):



Data File : M:\YODA\DATA\Y191030\1030Y196.D
 Acq On : 5 Nov 19 11:27
 Sample : 191029A BLK 1/800
 Misc :

Vial: 96
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	140492	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.94	136	561979	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	418337	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	873218	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	972890	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1125237	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	823262	222.09946	ppb	0.04
Spiked Amount	250.000		Recovery	=	88.840%	
6) Phenol-D6 (S)	5.11	99	967612	230.42048	ppb	0.02
Spiked Amount	250.000		Recovery	=	92.168%	
22) Nitrobenzene-D5 (S)	6.14	82	532134	109.08781	ppb	0.00
Spiked Amount	125.000		Recovery	=	87.270%	
46) 2-Fluorobiphenyl (S)	8.19	172	1229354	94.80848	ppb	0.00
Spiked Amount	125.000		Recovery	=	75.846%	
64) 2,4,6-Tribromophenol (S)	9.89	330	599570	210.70986	ppb	0.00
Spiked Amount	250.000		Recovery	=	84.284%	
82) Terphenyl-D14 (S)	12.56	244	2084173	111.90418	ppb	0.00
Spiked Amount	125.000		Recovery	=	89.523%	

Target Compounds

Qvalue

Quantitation Report

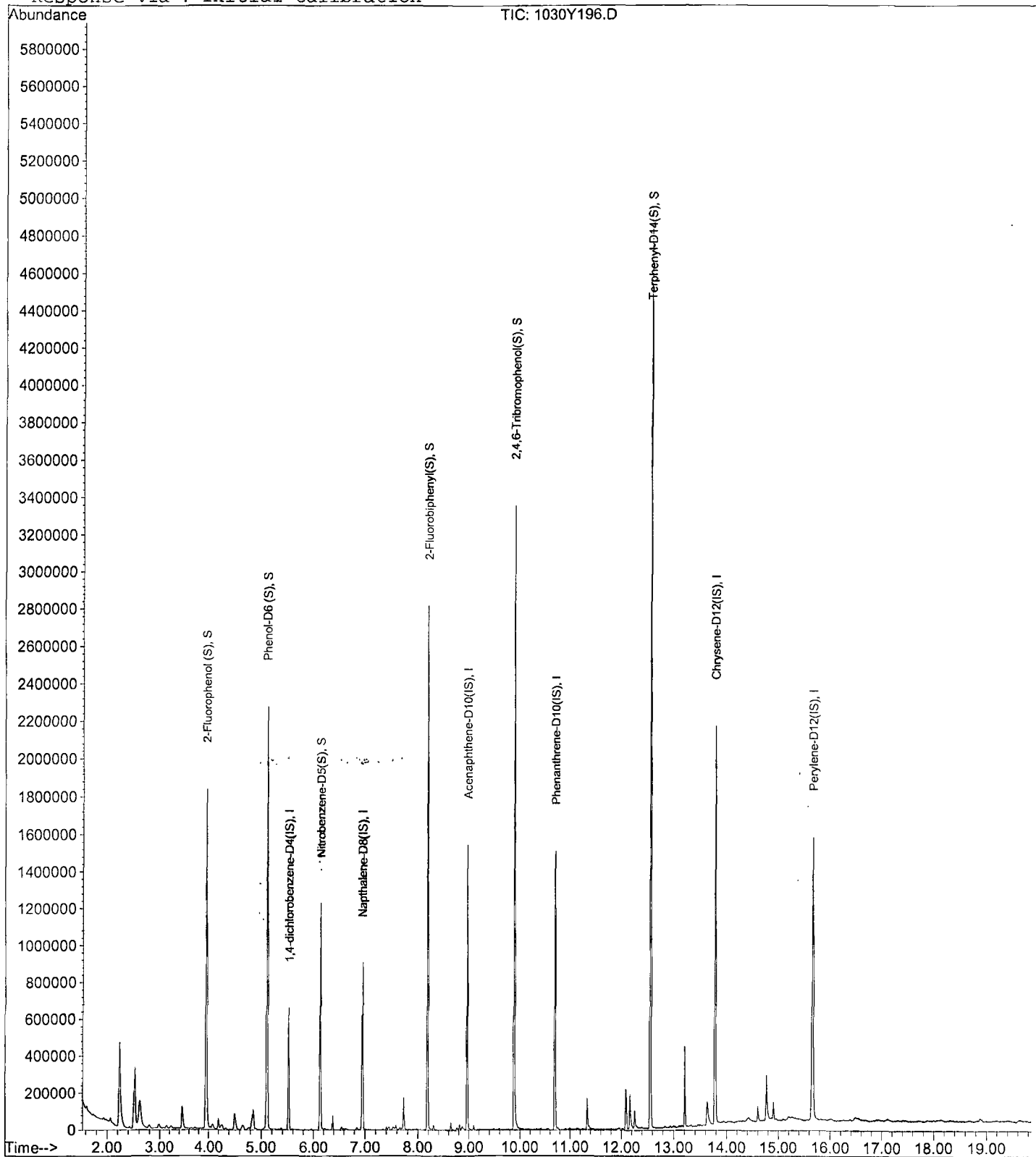
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Acq On : 5 Nov 19 11:27
Sample : 191029A BLK 1/800
Misc :

Vial: 96
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:31 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y197.D Vial: 97
 Acq On : 5 Nov 19 11:55 Operator: MA,SS
 Sample : 191029A LCS-1 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 6 8:09 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	141387	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.95	136	572016	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	404386	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	828621	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	956790	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1060389	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.96	112	807229	216.39554	ppb	0.04
Spiked Amount 250.000			Recovery =	86.558%		
6) Phenol-D6 (S)	5.12	99	973959	230.46375	ppb	0.03
Spiked Amount 250.000			Recovery =	92.186%		
22) Nitrobenzene-D5 (S)	6.14	82	505483	101.80607	ppb	0.00
Spiked Amount 125.000			Recovery =	81.445%		
46) 2-Fluorobiphenyl (S)	8.19	172	1181178	94.23577	ppb	0.00
Spiked Amount 125.000			Recovery =	75.389%		
64) 2,4,6-Tribromophenol (S)	9.90	330	592156	215.28376	ppb	0.00
Spiked Amount 250.000			Recovery =	86.114%		
82) Terphenyl-D14 (S)	12.56	244	1988620	108.57040	ppb	0.00
Spiked Amount 125.000			Recovery =	86.856%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.76	58	5336	6.16132		83
3) n-Nitrosodimethylamine	1.98	42	98533	50.35072	ppb	99
4) Pyridine	2.00	79	198048	51.91494	ppb	97
7) Phenol	5.13	94	319277	57.64172	ppb	96
8) Aniline	5.14	93	220339	38.73351	ppb #	51
9) Bis (2-chloroethyl) ether	5.22	63	129285	58.31661	ppb	93
10) 2-Chlorophenol	5.28	128	269810	60.55194	ppb	93
11) 1,3-DCB	5.45	146	265059	50.28987	ppb	99
12) 1,4-DCB	5.53	146	274519	51.32834	ppb	99
13) Benzyl alcohol	5.67	108	150794	55.76973	ppb	84
14) 1,2-DCB	5.71	146	263821	53.17427	ppb	96
15) 2-Methylphenol	5.80	107	200963	55.84007	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	127803	66.53872	ppb	88
17) Acetophenone	5.97	105	364308	54.27700	ppb	96
18) 3&4-Methylphenol	5.97	107	530633	109.80187	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	184520	52.59498	ppb	93
20) Hexachloroethane	6.09	117	97469	44.53501	ppb	94
23) Nitrobenzene	6.16	77	301206	52.90159	ppb	97
24) Isophorone	6.43	82	485355	52.09618	ppb	97
25) 2-Nitrophenol	6.52	139	155623	62.28058	ppb	85
26) 2,4-Dimethylphenol	6.56	122	227517	53.79994	ppb	90
27) Benzoic acid	6.68	105	181151	48.47266	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	269603	54.73539	ppb	97
29) 2,4-Dichlorophenol	6.79	162	247815	56.01703	ppb	98
30) 1,2,4-Trichlorobenzene	6.89	180	265188	48.54494	ppb	98
31) 3,4-Dimethylphenol	6.90	107	365516	51.19418	ppb	95
32) Naphthalene	6.97	128	732420	53.12009	ppb	100
33) 4-Chloroaniline	7.03	127	166928	31.69260	ppb	95
34) 2,6-Dichlorophenol	7.05	162	239496	56.25295	ppb	99
35) Hexachloropropene	7.08	213	131297	25.32766	ppb	97
36) Hexachlorobutadiene	7.12	225	173813	41.10371	ppb	99
37) Caprolactum	7.44	55	72317	59.90978	ppb	89

(#) = qualifier out of range (m) = manual integration
 1030Y197.D Y1015NC.M Fri Nov 08 09:53:20 2019

Data File : M:\YODA\DATA\Y191030\1030Y197.D
 Acq On : 5 Nov 19 11:55
 Sample : 191029A LCS-1 1/800
 Misc :

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:09 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	266955	54.85567	ppb	95
39) 2-Methylnaphthalene	7.76	142	503945	52.44394	ppb	99
40) 1-Methylnaphthalene	7.88	142	519458	52.49963	ppb	100
42) Hexachlorocyclopentadiene	7.95	237	62152	9.96513	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	317599	43.42111	ppb	99
44) 2,4,6-Trichlorophenol	8.09	196	222834	49.04236	ppb	98
45) 2,4,5-Trichlorophenol	8.14	196	235685	47.80873	ppb	94
47) 1,1'-Biphenyl	8.30	154	655483	45.17170	ppb	99
48) 2-Chloronaphthalene	8.33	162	546372	44.95712	ppb	97
49) 2-Nitroaniline	8.44	65	150947	44.47174	ppb	84
50) Dimethyl phthalate	8.65	163	736569	48.49190	ppb	98
51) 2,6-DNT	8.72	165	165146	51.25695	ppb	80
52) Acenaphthylene	8.80	152	842319	45.89126	ppb	99
53) 3-Nitroaniline	8.44	138	176418	50.49849	ppb	# 89
54) Acenaphthene	9.01	154	590459	47.55724	ppb	99
55) 2,4-Dinitrophenol	9.03	184	102096	54.00728	ppb	99
56) 4-Nitrophenol	8.72	65	10310	42.70133	ppb	94
57) Dibenzofuran	9.21	168	815430	45.83420	ppb	92
58) 2,4-DNT	9.19	165	229176	50.91382	ppb	89
59) 2,3,4,6-Tetrachlorophenol	9.35	232	215683	50.24941	ppb	98
60) Diethyl phthalate	9.47	149	718888	46.19356	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	410122	44.79808	ppb	88
62) Fluorene	9.61	166	671898	45.13736	ppb	99
63) 4-Nitroaniline	8.91	138	124743	43.63181	ppb	88
66) 4,6-Dinitro-2-methylphenol	9.66	198	164348	61.45815	ppb	89
67) Diphenyl amine	9.75	169	1059763	96.95230	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	1059763	96.95230	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	594603	46.09877	ppb	# 84
70) 4-Bromophenyl phenyl ether	10.18	248	271747	53.07641	ppb	97
71) Hexachlorobenzene	10.25	284	288119	53.00182	ppb	93
72) Atrazine	10.36	200	115987	25.91588	ppb	97
73) Pentachlorophenol	10.48	266	201190	55.89082	ppb	98
74) Phenanthrene	10.73	178	1008762	49.98453	ppb	99
75) Anthracene	10.79	178	1050888	50.43059	ppb	99
76) Carbazol	10.97	167	956514	51.06132	ppb	98
77) Di-n-butylphthalate	11.37	149	1226600	51.41420	ppb	99
78) Fluoranthene	12.11	202	1284476	50.24944	ppb	99
80) Benzidine	12.26	184	187638	31.20687	ppb	96
81) Pyrene	12.38	202	1345341	49.87751	ppb	99
83) Butyl benzylphthalate	13.13	149	577346	50.79922	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	321246	34.62884	ppb	99
85) Benz (a) anthracene	13.78	228	1458914	50.01215	ppb	99
86) Bis (2-ethylhexyl) phthala	13.79	149	885291	53.28175	ppb	98
87) Chrysene	13.81	228	1372376	50.44352	ppb	100
88) Di-n-octylphthalate	14.56	149	1414068	51.41259	ppb	99
90) Benzo (b) fluoanthene	15.11	252	1639127	53.18955	ppb	100
91) Benzo (k) fluoanthene	15.15	252	1252838	44.95633	ppb	100
92) Benzo (a) pyrene	15.59	252	1334831	50.26190	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.60	276	1663171	50.67137	ppb	99
94) Dibenz (a,h) anthracene	17.64	278	1464036	52.28261	ppb	99
95) Benzo (g,h,i) perylene	18.18	276	1319374	50.45629	ppb	99

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

1030Y197.D Y1015NC.M

Fri Nov 08 09:53:20 2019

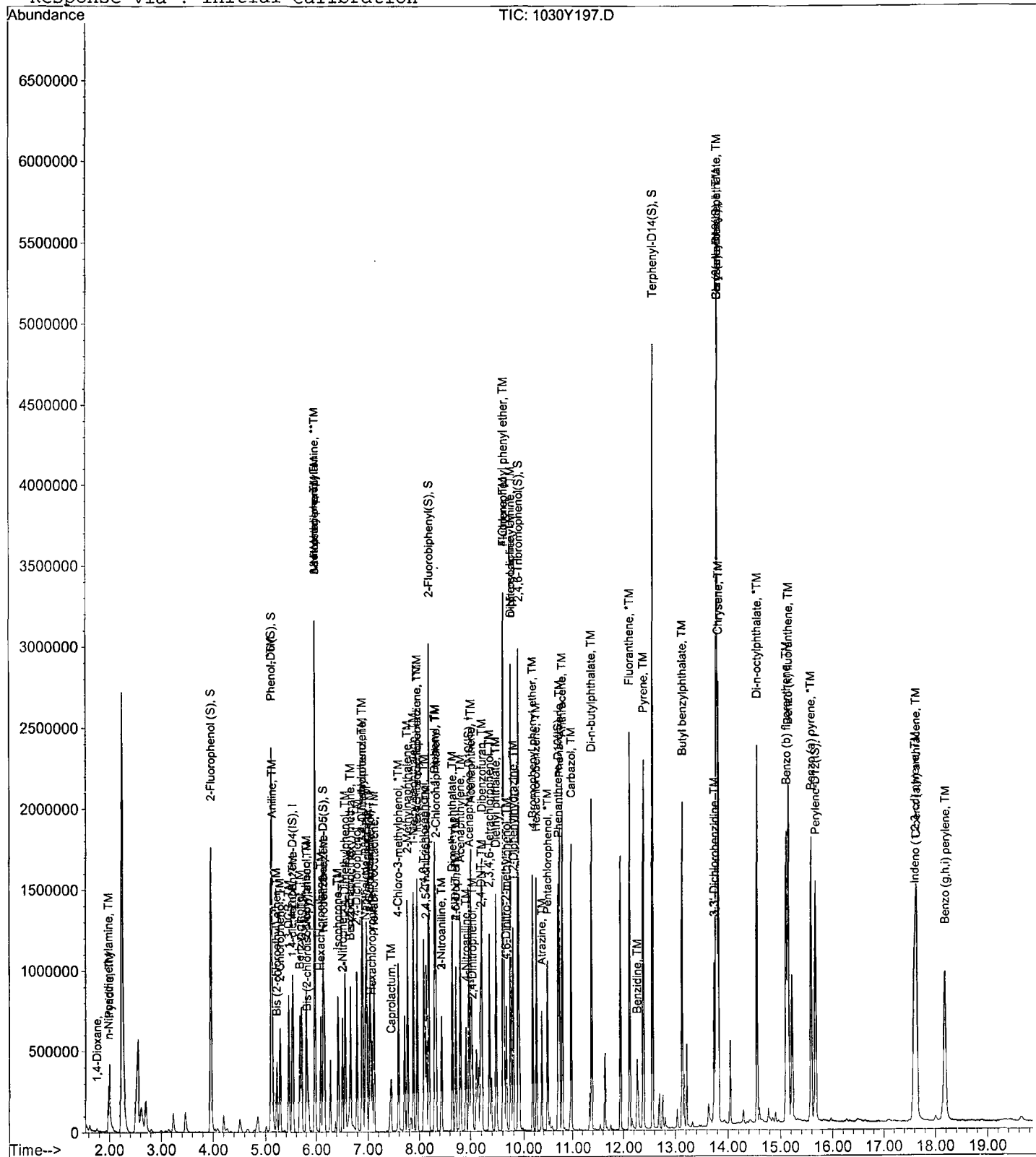
Data File : M:\YODA\DATA\Y191030\1030Y197.D
Acq On : 5 Nov 19 11:55
Sample : 191029A LCS-1 1/800
Misc :

Vial: 97
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:09 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y198.D
 Acq On : 5 Nov 19 12:24
 Sample : 191029A LCSD-1 1/800
 Misc :

Vial: 98
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	138377	40.00000	ppb	0.00
21) Naphthalene-D8 (IS)	6.96	136	529852	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	384813	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	831873	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	950487	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1063527	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.96	112	810164	221.90652	ppb	0.04
Spiked Amount 250.000			Recovery =	88.763%		
6) Phenol-D6 (S)	5.11	99	975820	235.92677	ppb	0.02
Spiked Amount 250.000			Recovery =	94.371%		
22) Nitrobenzene-D5 (S)	6.14	82	507921	110.43759	ppb	0.00
Spiked Amount 125.000			Recovery =	88.350%		
46) 2-Fluorobiphenyl (S)	8.19	172	1187778	99.58228	ppb	0.00
Spiked Amount 125.000			Recovery =	79.666%		
64) 2,4,6-Tribromophenol (S)	9.90	330	593536	226.76111	ppb	0.00
Spiked Amount 250.000			Recovery =	90.704%		
82) Terphenyl-D14 (S)	12.56	244	2001546	110.00076	ppb	0.00
Spiked Amount 125.000			Recovery =	88.001%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.76	58	4610m	5.43882		68
3) n-Nitrosodimethylamine	1.98	42	95103	49.65509	ppb	93
4) Pyridine	2.00	79	164130	43.95977	ppb	100
7) Phenol	5.13	94	319249	58.89039	ppb	97
8) Aniline	5.14	93	225517	40.50609	ppb	# 68
9) Bis (2-chloroethyl) ether	5.22	63	131535	60.62211	ppb	92
10) 2-Chlorophenol	5.28	128	271205	62.18895	ppb	99
11) 1,3-DCB	5.45	146	265883	51.54352	ppb	99
12) 1,4-DCB	5.54	146	272379	52.03601	ppb	99
13) Benzyl alcohol	5.68	108	150741	56.96282	ppb	86
14) 1,2-DCB	5.70	146	261819	53.91864	ppb	97
15) 2-Methylphenol	5.80	107	201842	57.30427	ppb	96
16) Bis (2-chloroisopropyl) et	5.82	45	128954	68.59836	ppb	88
17) Acetophenone	5.97	105	365921	55.70319	ppb	96
18) 3&4-Methylphenol	5.97	107	539716	114.11069	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	183966	53.57769	ppb	92
20) Hexachloroethane	6.09	117	95005	44.35342	ppb	90
23) Nitrobenzene	6.16	77	301028	57.07758	ppb	96
24) Isophorone	6.43	82	482572	55.91935	ppb	99
25) 2-Nitrophenol	6.52	139	152079	65.70549	ppb	86
26) 2,4-Dimethylphenol	6.57	122	236705	60.42671	ppb	90
27) Benzoic acid	6.69	105	227810	65.80858	ppb	97
28) Bis (2-chloroethoxy) metha	6.67	93	273295	59.90027	ppb	97
29) 2,4-Dichlorophenol	6.79	162	251355	61.33856	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	261692	51.71710	ppb	99
31) 3,4-Dimethylphenol	6.90	107	371223	56.13099	ppb	95
32) Naphthalene	6.98	128	730325	57.18319	ppb	100
33) 4-Chloroaniline	7.03	127	146724	30.07346	ppb	94
34) 2,6-Dichlorophenol	7.04	162	242884	61.58848	ppb	98
35) Hexachloropropene	7.08	213	129050	26.87521	ppb	99
36) Hexachlorobutadiene	7.11	225	169787	43.34678	ppb	99
37) Caprolactum	7.44	55	74080	66.25397	ppb	89

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

Data File : M:\YODA\DATA\Y191030\1030Y198.D
 Acq On : 5 Nov 19 12:24
 Sample : 191029A LCSD-1 1/800
 Misc :

Vial: 98
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	268445	59.55145	ppb	92
39) 2-Methylnaphthalene	7.76	142	502578	56.46369	ppb	99
40) 1-Methylnaphthalene	7.88	142	524139	57.18813	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	59101	9.95793	ppb	96
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	322757	46.37072	ppb	97
44) 2,4,6-Trichlorophenol	8.09	196	225656	52.18950	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	235686	50.24067	ppb	96
47) 1,1'-Biphenyl	8.30	154	672288	48.68629	ppb	99
48) 2-Chloronaphthalene	8.33	162	561491	48.55111	ppb	96
49) 2-Nitroaniline	8.43	65	156161	48.34801	ppb	97
50) Dimethyl phthalate	8.66	163	740441	51.22626	ppb	98
51) 2,6-DNT	8.72	165	165418	53.95278	ppb #	75
52) Acenaphthylene	8.80	152	843788	48.30956	ppb	100
53) 3-Nitroaniline	8.44	138	181322	54.54217	ppb #	88
54) Acenaphthene	9.01	154	594779	50.34181	ppb	99
55) 2,4-Dinitrophenol	9.04	184	109464	60.85010	ppb	97
56) 4-Nitrophenol	8.72	65	10067	43.81564	ppb	100
57) Dibenzofuran	9.21	168	823675	48.65250	ppb	91
58) 2,4-DNT	9.18	165	234470	54.73942	ppb	95
59) 2,3,4,6-Tetrachlorophenol	9.35	232	218137	53.40609	ppb	94
60) Diethyl phthalate	9.47	149	721165	48.69689	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.60	204	417772	47.95479	ppb	97
62) Fluorene	9.61	166	678122	47.87260	ppb	99
63) 4-Nitroaniline	8.92	138	113350	41.66342	ppb	84
66) 4,6-Dinitro-2-methylphenol	9.67	198	165599	61.68388	ppb #	83
67) Diphenyl amine	9.75	169	999102	91.04542	ppb	99
68) n-Nitrosodiphenylamine	9.75	169	999102	91.04542	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	581084	44.87455	ppb	95
70) 4-Bromophenyl phenyl ether	10.18	248	270758	52.67651	ppb	97
71) Hexachlorobenzene	10.25	284	291644	53.44054	ppb	97
72) Atrazine	10.36	200	110197	24.52592	ppb	99
73) Pentachlorophenol	10.48	266	202092	55.92193	ppb	100
74) Phenanthrene	10.73	178	1019975	50.34256	ppb	99
75) Anthracene	10.79	178	1046122	50.00562	ppb	99
76) Carbazol	10.98	167	968995	51.52537	ppb	98
77) Di-n-butylphthalate	11.37	149	1235525	51.58585	ppb	97
78) Fluoranthene	12.12	202	1315447	51.25987	ppb	99
80) Benzidine	12.27	184	62012	10.38187	ppb #	90
81) Pyrene	12.39	202	1372521	51.22262	ppb	99
83) Butyl benzylphthalate	13.12	149	584702	51.78762	ppb	88
84) 3,3'-Dichlorobenzidine	13.74	252	303801	32.96552	ppb	99
85) Benz (a) anthracene	13.77	228	1472680	50.81883	ppb	99
86) Bis (2-ethylhexyl) phthala	13.79	149	853360	51.70055	ppb	98
87) Chrysene	13.82	228	1364629	50.49138	ppb	99
88) Di-n-octylphthalate	14.56	149	1443332	52.82455	ppb	98
90) Benzo (b) fluoranthene	15.11	252	1476271	47.76354	ppb #	98
91) Benzo (k) fluoranthene	15.15	252	1418546	50.75233	ppb	99
92) Benzo (a) pyrene	15.59	252	1336078	50.16041	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.59	276	1657339	50.34470	ppb	98
94) Dibenz (a,h) anthracene	17.63	278	1457439	51.89345	ppb	98
95) Benzo (g,h,i) perylene	18.18	276	1313413	50.08013	ppb	99

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

Quantitation Report

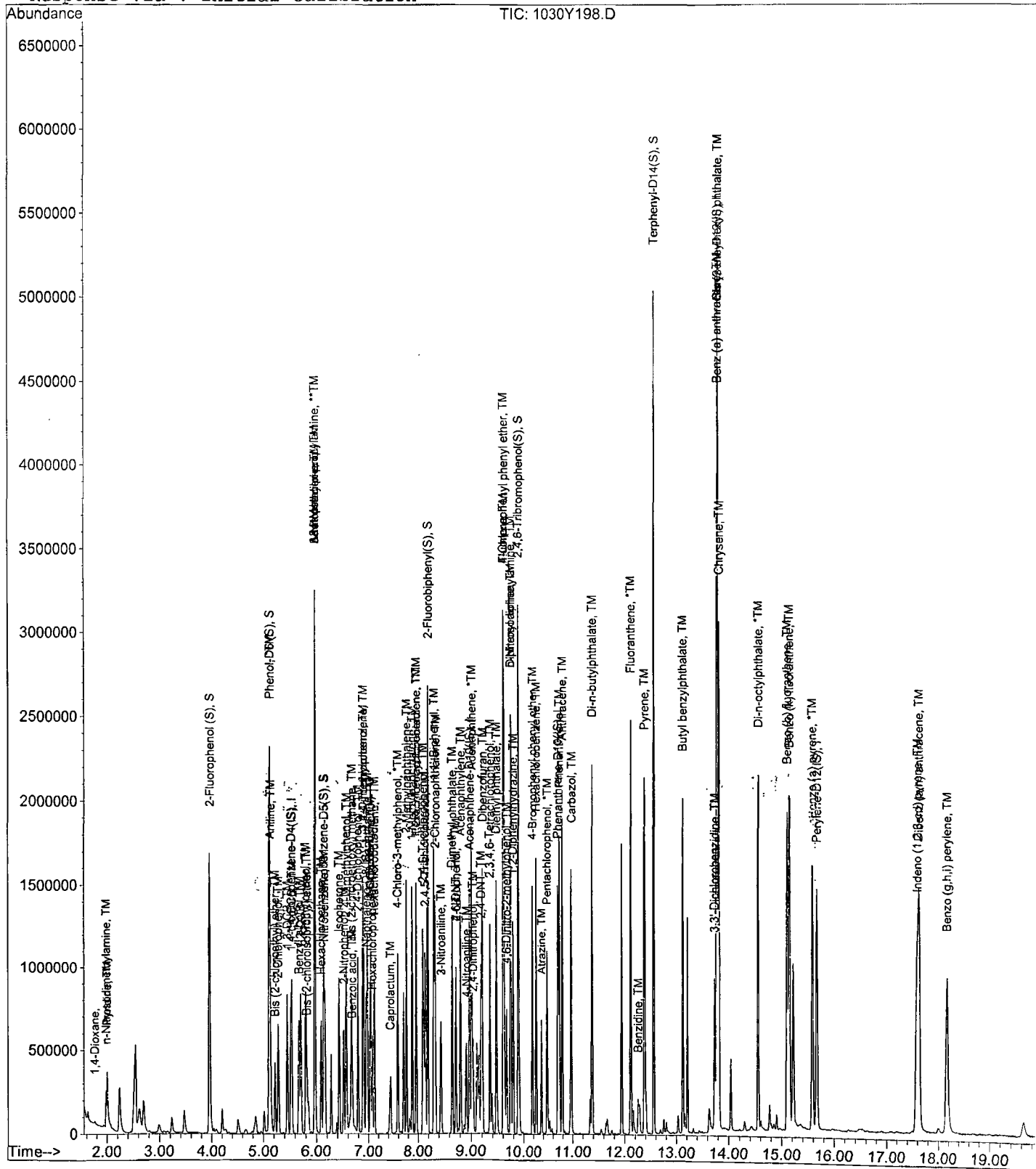
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Acq On : 5 Nov 19 12:24
Sample : 191029A LCSD-1 1/800
Misc :

Vial: 98
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

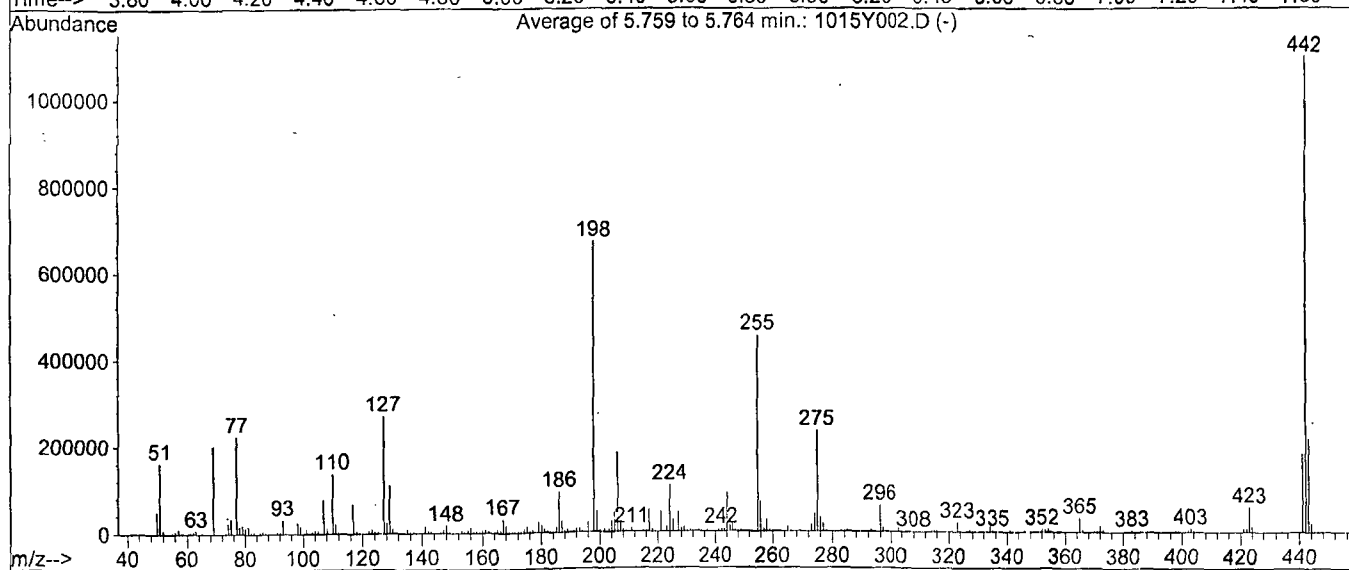
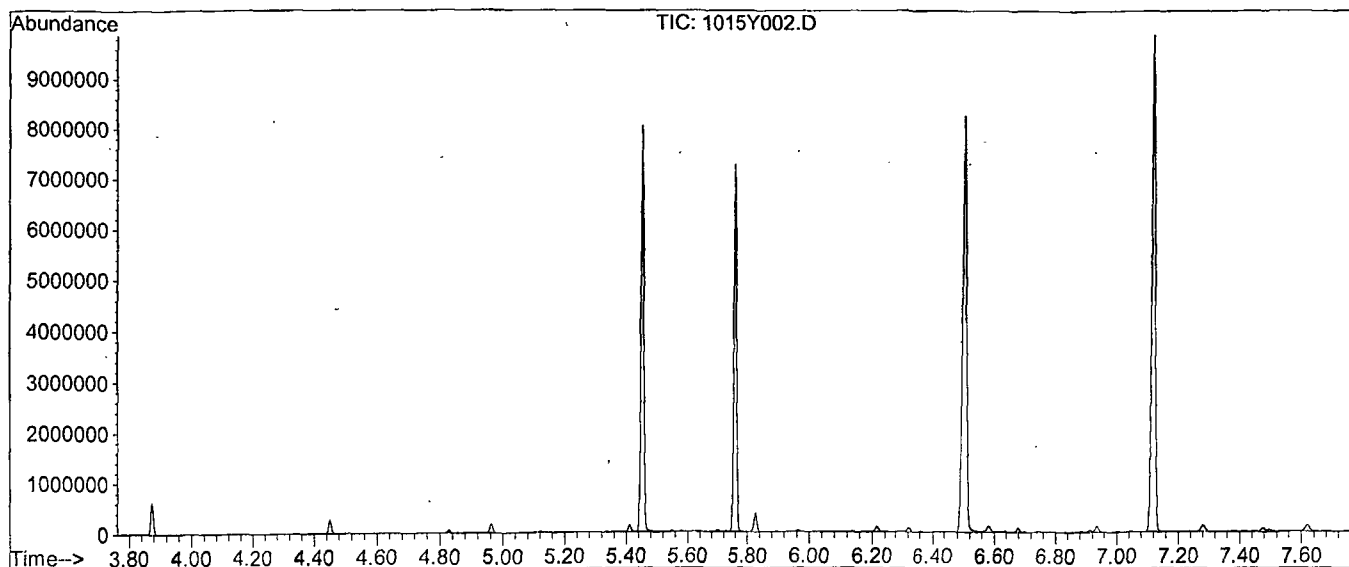
Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191015\1015Y002.D
 Acq On : 15 Oct 19 8:30
 Sample : SV TUNE 10/01/19
 Misc :

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.759 to 5.764 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.2	162281	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	371	PASS
127	198	10	80	40.4	270443	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	669973	PASS
199	198	5	9	6.8	45805	PASS
275	198	10	60	34.5	231296	PASS
365	198	1	100	4.9	32499	PASS
441	442	0.01	24	16.3	179093	PASS
442	198	50	500	163.6	1096256	PASS
443	442	15	24	19.6	214507	PASS

Data File Name: 1015Y002.D
Data File Path: M:\YODA\DATA\Y191015\
Operator: MA,SS
Date Acquired: 15 Oct 2019 08:30
Method File: DFTPP2.M
Sample Name: SV TUNE 10/01/19
Vial Number: 92
Instrument Name: Yoda

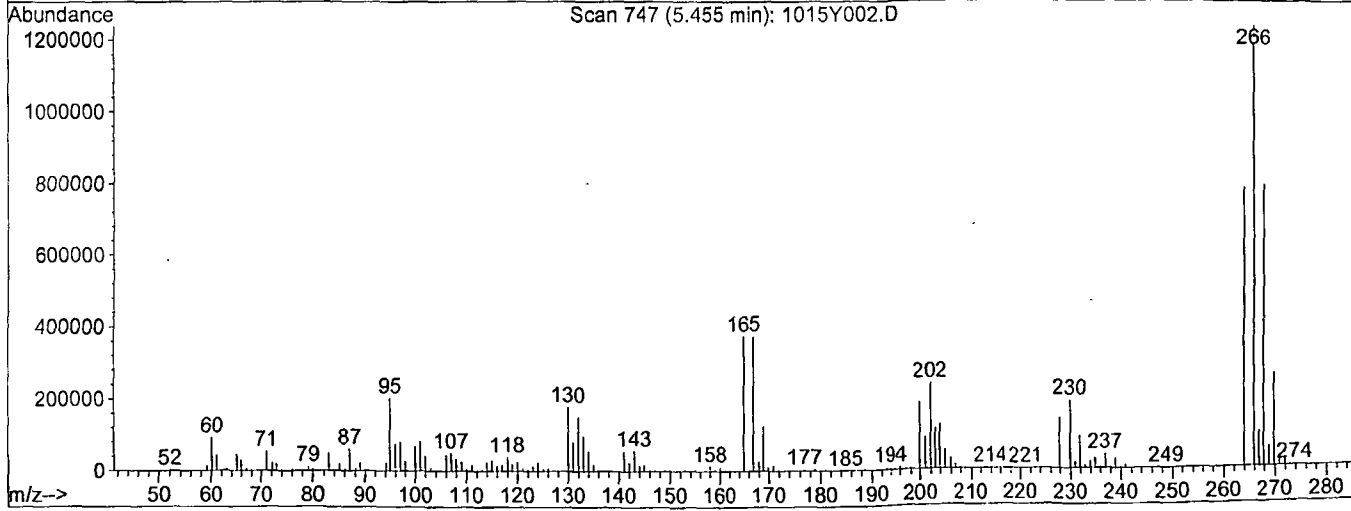
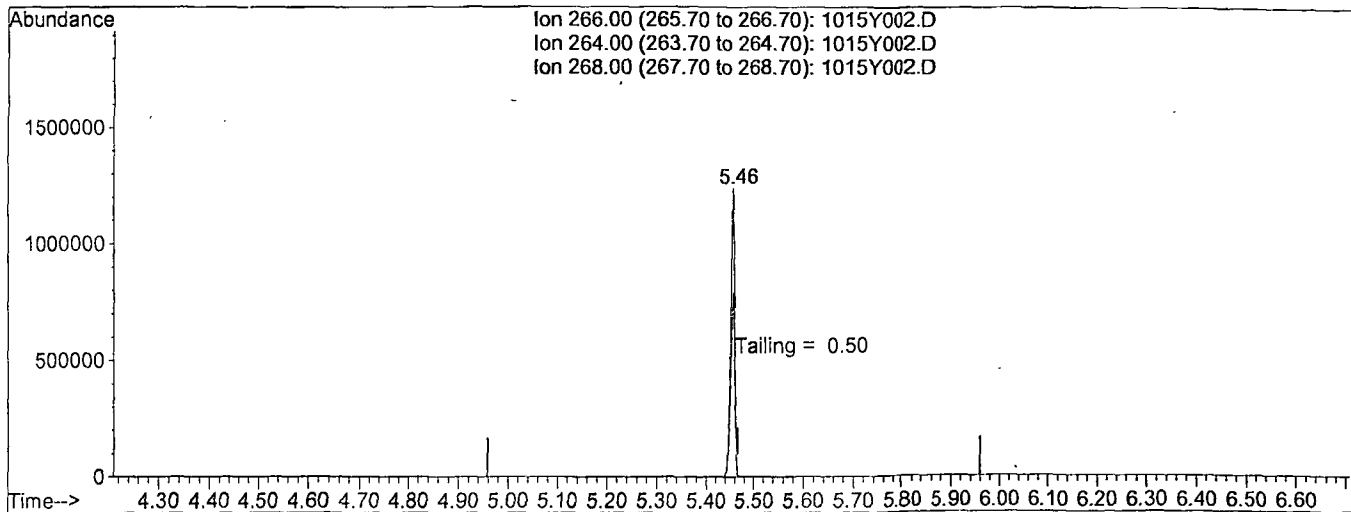
#	Name	Ret Time	Target Response
1)	DDT	7.12	76531300
2)	DDD	6.93	970826
3)	DDE	6.58	924346

Breakdown 2.42

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y002.D Vial: 92
 Acq On : 15 Oct 19 8:30 Operator: MA,SS
 Sample : SV TUNE 10/01/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Oct 15 8:30 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Mon Oct 14 16:47:30 2019
 Response via : Single Level Calibration



TIC: 1015Y002.D

(5) Pentachlorophenol
 5.46min 0.0000
 response 7377979

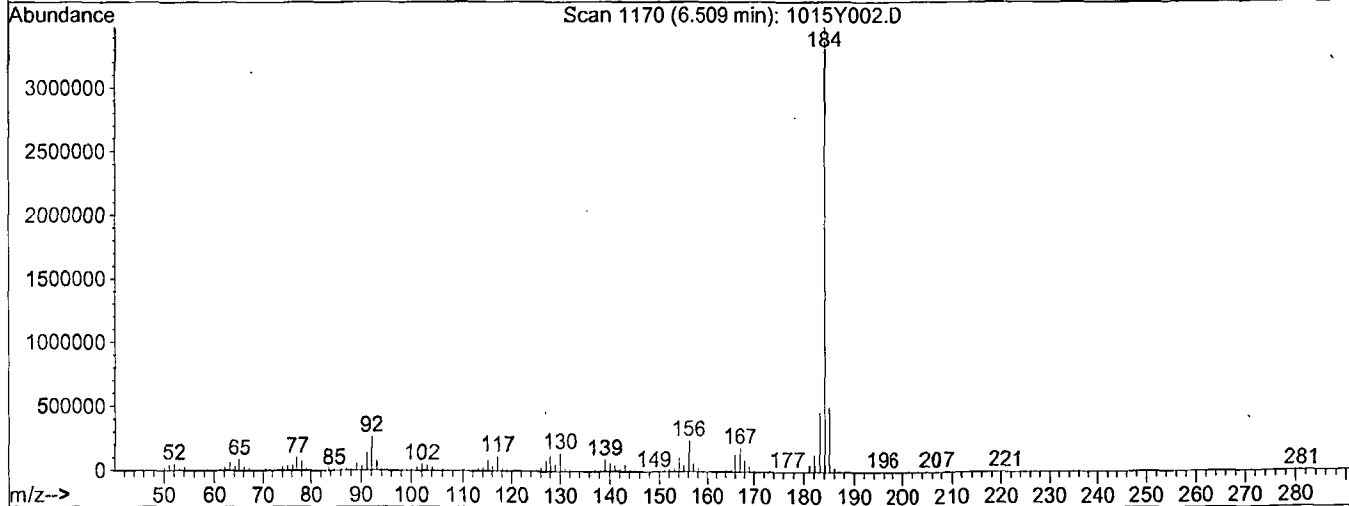
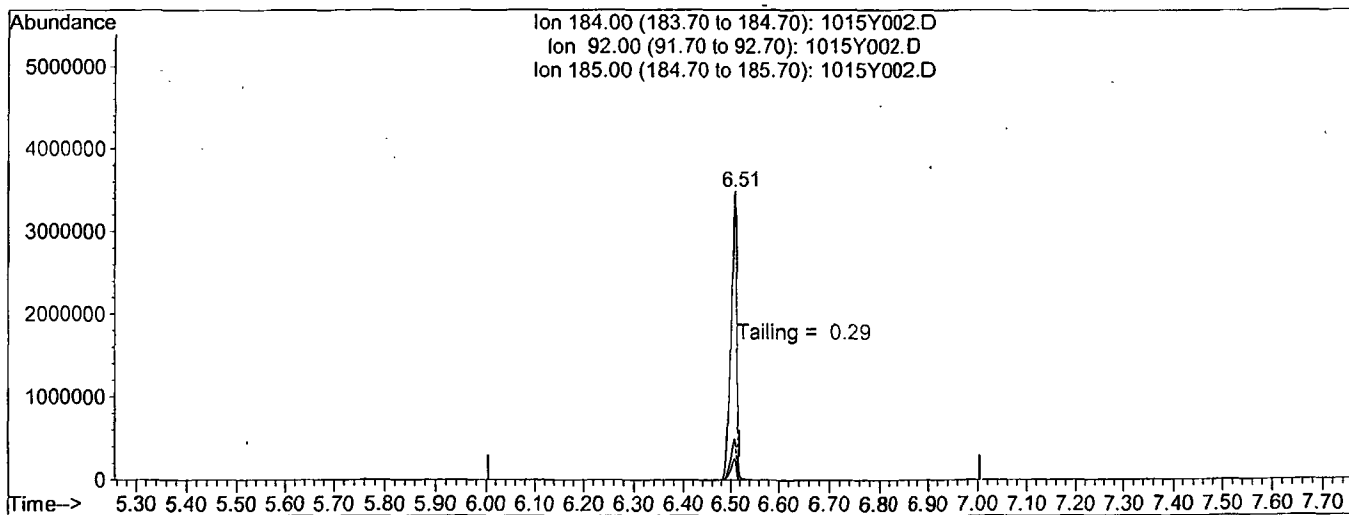
Ion	Exp%	Act%
266.00	100	100
264.00	63.90	62.94
268.00	64.90	63.99
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y002.D
 Acq On : 15 Oct 19 8:30
 Sample : SV TUNE 10/01/19
 Misc :
 Quant Time: Oct 15 8:30 2019

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Mon Oct 14 16:47:30 2019
 Response via : Single Level Calibration



TIC: 1015Y002.D

(6) Benzidine

6.51min 0.0000

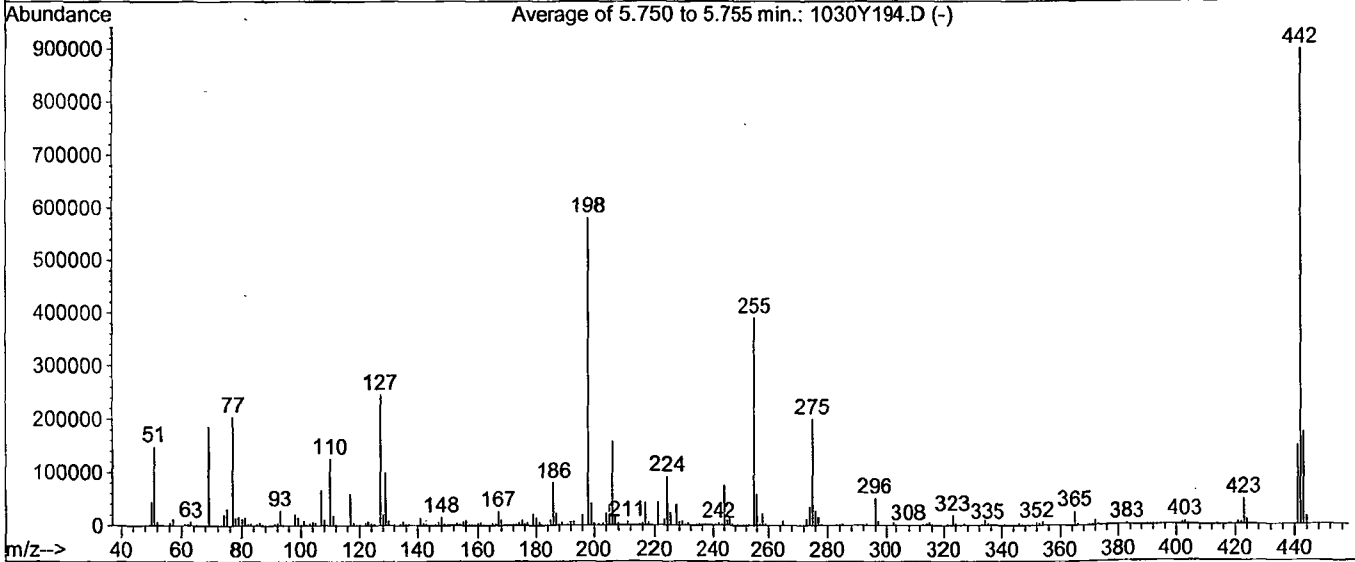
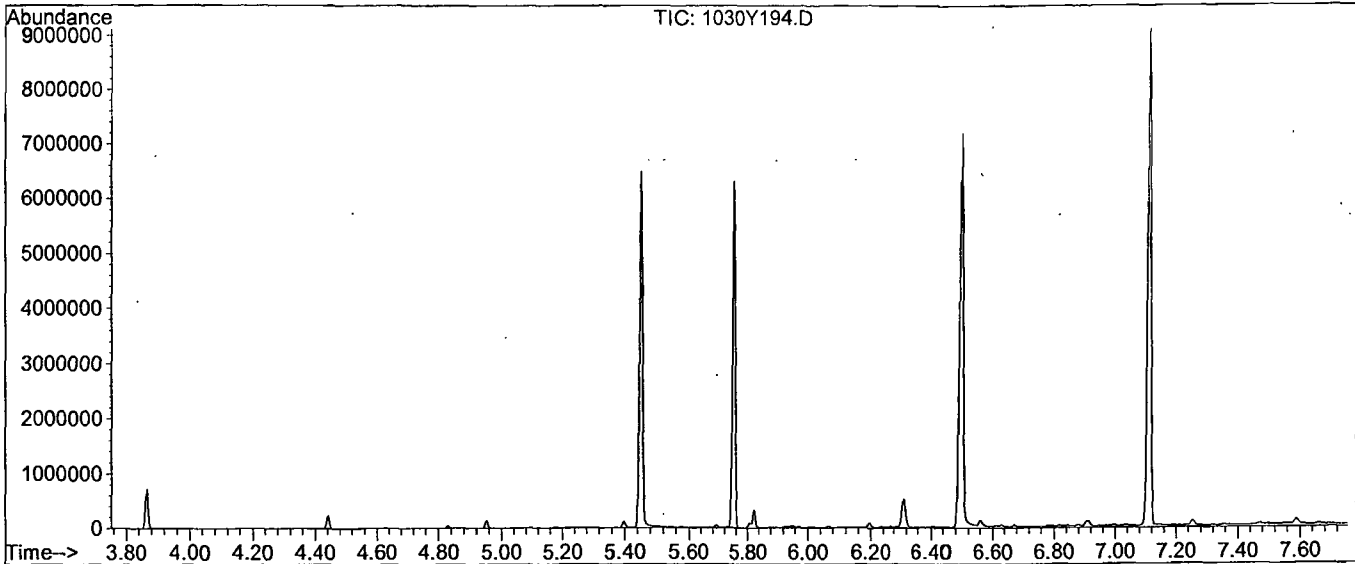
response 29565532

Ion	Exp%	Act%
184.00	100	100
92.00	6.90	6.96
185.00	14.50	14.22
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y191030\1030Y194.D
 Acq On : 5 Nov 19 10:36
 Sample : SV TUNE 10/01/19
 Misc :

Vial: 94
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.750 to 5.755 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.7	148808	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	924	PASS
127	198	10	80	42.4	245952	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	579797	PASS
199	198	5	9	7.0	40765	PASS
275	198	10	60	34.5	199744	PASS
365	198	1	100	4.5	25891	PASS
441	442	0.01	24	16.6	148672	PASS
442	198	50	500	154.7	896896	PASS
443	442	15	24	19.4	174080	PASS

Data File Name: 1030Y194.D
Data File Path: M:\YODA\DATA\Y191030\
Operator: MA,SS
Date Acquired: 5 Nov 19 10:36
Method File: DFTPP2.M
Sample Name: SV TUNE 10/01/19
Vial Number: 94
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	7.09	67420600
2)	DDD	6.90	1086490
3)	DDE	6.62	62697

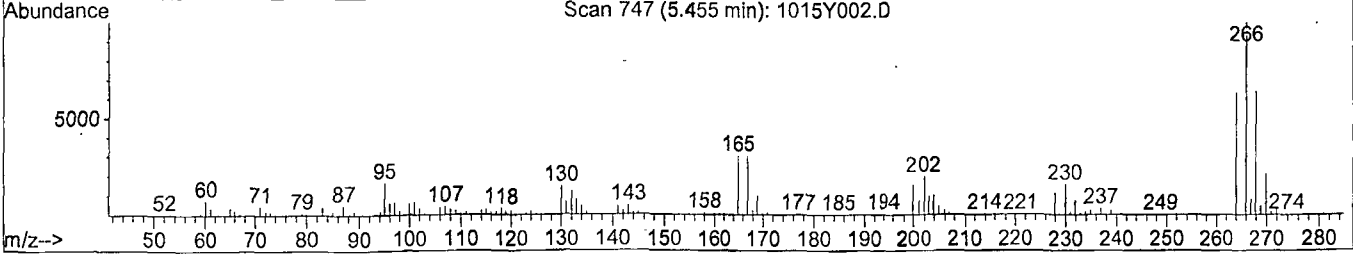
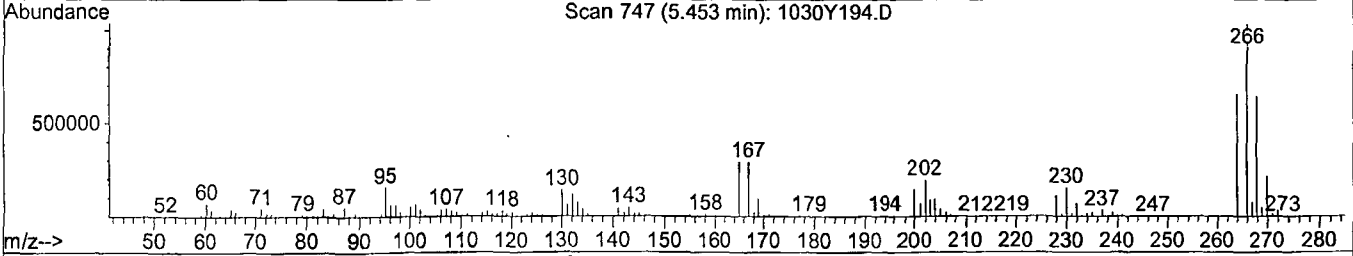
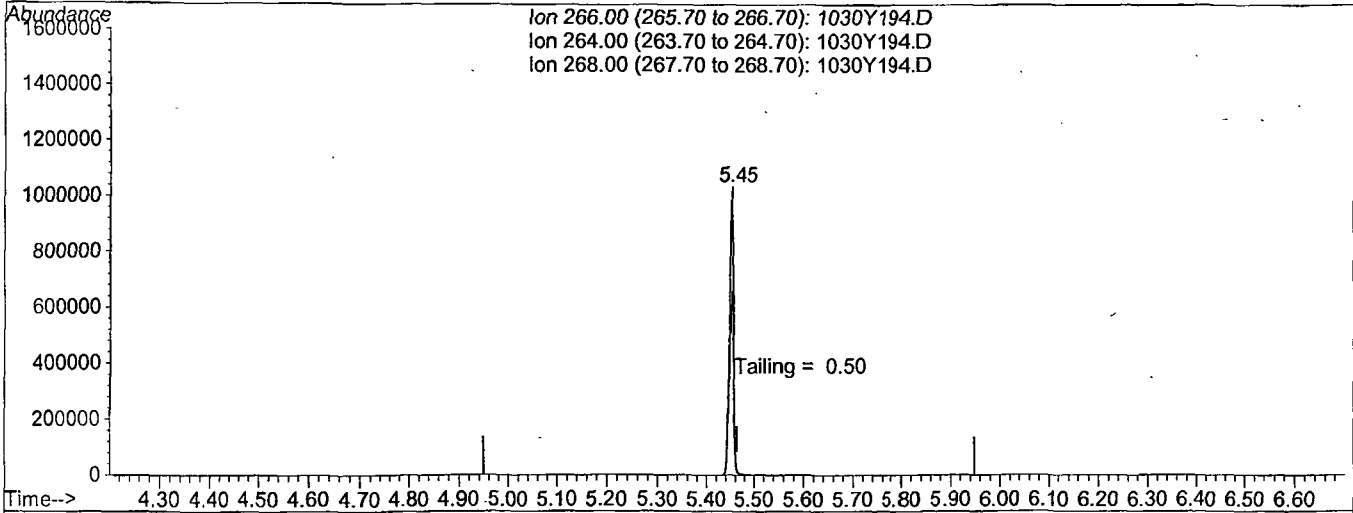
Breakdown 1.68

Quantitation Report

Data File : M:\YODA\DATA\Y191030\1030Y194.D
 Acq On : 5 Nov 19 10:36
 Sample : SV TUNE 10/01/19
 Misc :
 Quant Time: Nov 5 10:32 2019

Vial: 94
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191030\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Oct 30 17:03:17 2019
 Response via : Single Level Calibration



TIC: 1030Y194.D

(5) Pentachlorophenol

5.45min 0.0000

response 6318802

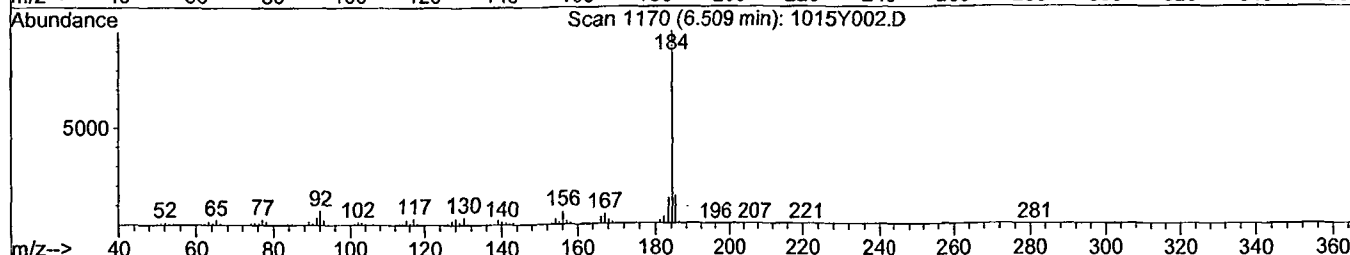
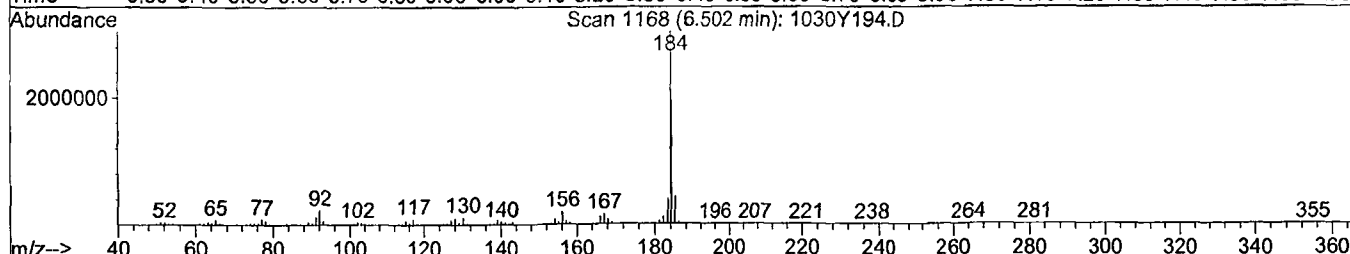
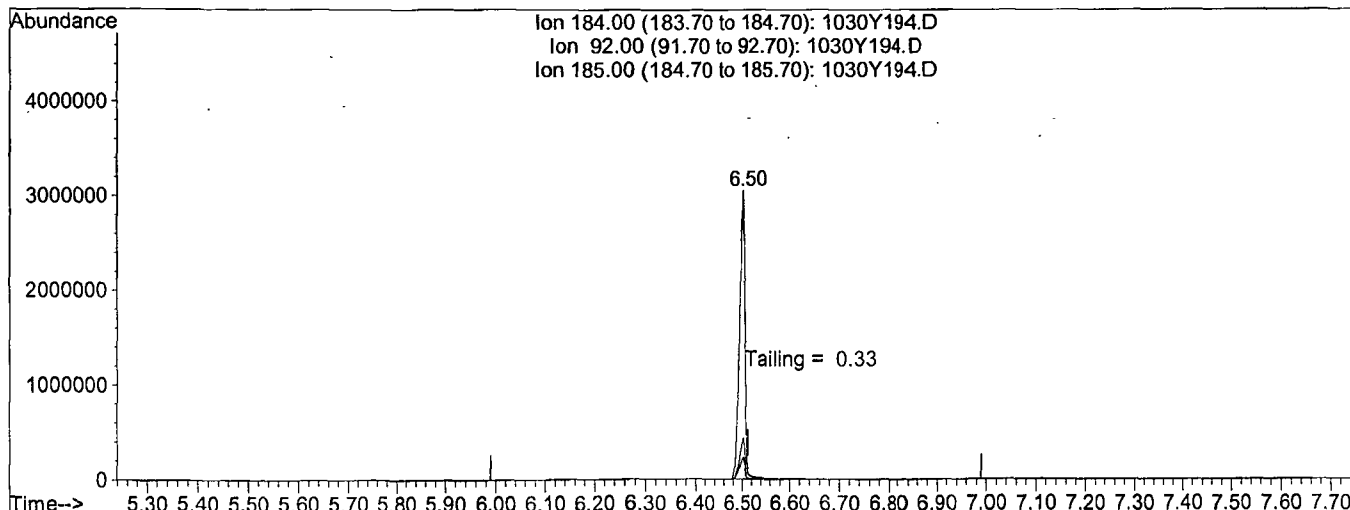
Ion	Exp%	Act%
266.00	100	100
264.00	62.90	64.02
268.00	64.50	64.02
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191030\1030Y194.D
 Acq On : 5 Nov 19 10:36
 Sample : SV TUNE 10/01/19
 Misc :
 Quant Time: Nov 5 10:32 2019

Vial: 94
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191030\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Oct 30 17:03:17 2019
 Response via : Single Level Calibration



TIC: 1030Y194.D

(6) Benzidine

6.50min 0.0000

response 24822574

Ion	Exp%	Act%
184.00	100	100
92.00	7.40	7.39
185.00	14.40	14.32
0.00	0.00	0.00

Name of Final Standard **8270 Full Scan Standard Curve**

Prep'd By (Initials)

JP

Prep Date 10/11/19

Exp Date 10/11/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Second Source**

Prep'd By (Initials)

JP

Prep Date 10/11/19

Exp Date 01/08/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike**

Prep'd By (Initials)

GA

Prep Date 09/17/19
Exp Date 09/17/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	020119 - 41134	09/17/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	041619 - 41139	09/17/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618 - 41144	09/17/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018 - 40934	09/17/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	030119 - 41149	09/17/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116 - 40939	09/17/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	051719 - 41154	09/17/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	020818 - 41159	09/17/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418 - 40944	09/17/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	053119 - 49277	09/17/20	1.0 mL	*	*	various

Name of Final Standard **8270 Internal Standard Ampules (2)**

Prep'd By (Initials)

GA

Prep Date 09/17/19
Exp Date 09/17/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatil e Internal Standard	Restek	31206	2000ug/mL	A0144261-40466 A0144261-40467	09/17/20	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard **8270 SS STOCK**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

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

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Name of Final Standard **8270 Surrogate 200/400 ppm**
 Prep Date **07/10/19**
 Exp Date **06/24/20**

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

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0141104-39902	06/24/20	200 uL	5 mL	MC 56258 4,600 uL	400 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0141697-40114	06/24/20	200 uL	*	*	200 ug/mL

Name of Final Standard **Semivolatle (SV) Tuning Solution**
 Prep Date **10/01/19**
 Exp Date **11/30/20**

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

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

Injection Log

Directory: M:\YODA\DATA\Y191015\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	92	1015Y002.D	1	SV TUNE 10/01/19		15 Oct 19 8:30
2	4	1015Y004.D	1	4ug/ml 8270 10/11/19		15 Oct 19 10:16
3	5	1015Y005.D	1	5ug/ml 8270 10/11/19		15 Oct 19 10:44
4	6	1015Y006.D	1	10ug/ml 8270 10/11/19		15 Oct 19 11:13
5	7	1015Y007.D	1	20ug/ml 8270 10/11/19		15 Oct 19 11:41
6	8	1015Y008.D	1	40ug/ml 8270 10/11/19		15 Oct 19 12:09
7	9	1015Y009.D	1	60ug/ml 8270 10/11/19		15 Oct 19 12:38
8	10	1015Y010.D	1	80ug/ml 8270 10/11/19		15 Oct 19 13:06
9	11	1015Y011.D	1	100ug/ml 8270 10/11/19		15 Oct 19 13:35
10	13	1015Y013.D	1	50ug/ml 8270 10/11/19		15 Oct 19 14:58
11	14	1015Y014.D	1	SS 8270 10/11/19		15 Oct 19 15:26
12	94	1030Y194.D	1	SV TUNE 10/01/19		5 Nov 19 10:36
13	95	1030Y195.D	1	50ug/ml 8270 10/24/19 (3)		5 Nov 19 10:52
14	96	1030Y196.D	1.25	191029A BLK 1/800		5 Nov 19 11:27
15	97	1030Y197.D	1.25	191029A LCS-1 1/800		5 Nov 19 11:55
16	98	1030Y198.D	1.25	191029A LCSD-1 1/800		5 Nov 19 12:24
17	99	1030Y199.D	1.25	BA01775W11 1/800		5 Nov 19 12:52
18	100	1030Y200.D	1.25	BA01777W10 1/800		5 Nov 19 13:20
19	1	1030Y201.D	1.25	BA01779W11 1/800		5 Nov 19 13:48
20	2	1030Y202.D	1.25	BA01781W10 1/800		5 Nov 19 14:16
21	3	1030Y203.D	1.25	BA01782W10 1/800		5 Nov 19 14:44
22	16	1030Y216.D	1.25	BA01784W14 1/800		5 Nov 19 20:52
23	20	1030Y220.D	1	50ug/ml 8270 10/24/19 (2)		5 Nov 19 22:45

ORGANICS
Calibration Data

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/31/19
Instrument: Linus

Initials: *MA/*

1030L004.D 1030L005.D 1030L006.D 1030L007.D 1030L008.D 1030L009.D 1030L010.D 1030L011.D

	Compound	1	2	3	4	5	6	7	8		Avg	%RSD	Type	r^2	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)															
2	TM 2-(2-Methoxyethoxy)ethanol	0.1255	0.1270	0.1199	*	0.1601	0.1377	0.1599	0.1385		0.14	12	TM			
3	I Napthalene-D8(IS)															
4	I Acenaphthene-D10(IS)															
5	I Phenanthrene-D10(IS)															
6	I Chrysene-D12(IS)															
7	I Perylene-D12(IS)															
8																
9																
10																
11																
12																
13	* It was concentrated. Deleted from the ICAL															
14																
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35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L004.D Vial: 4
 Acq On : 31 Oct 19 11:50 Operator: MA
 Sample : 50 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 12:28 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	924546	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3824592	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1847509	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3070665	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.42	240	2379935	40.00000	ppb	0.02
7) Perylene-D12 (IS)	10.65	264	2480690	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.19	45	145043m	63.19099	ppb	98

Quantitation Report

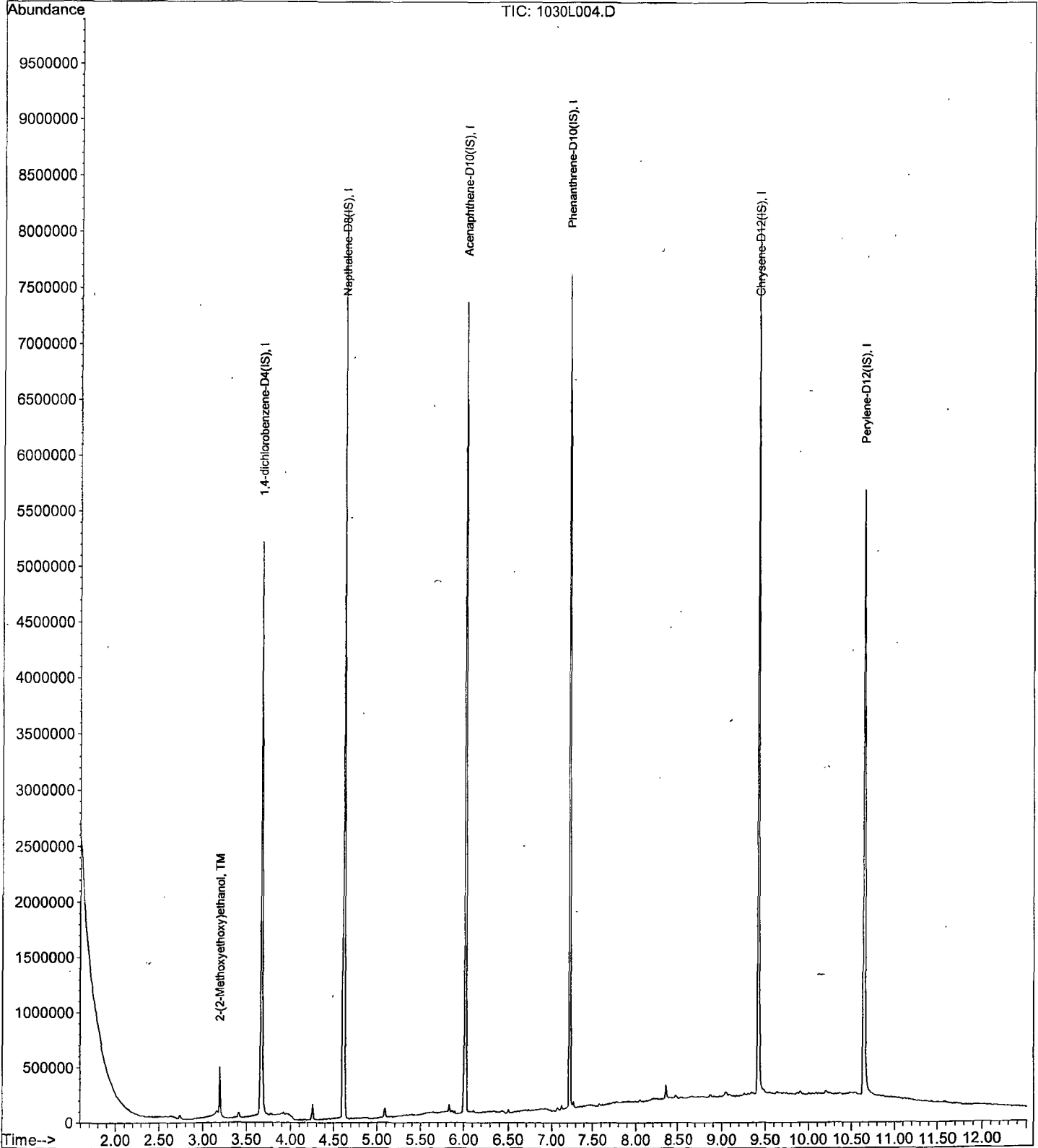
Data File : M:\LINUS\DATA\L191030M\1030L004.D
Acq On : 31 Oct 19 11:50
Sample : 50 2MEE 4/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 12:28 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration

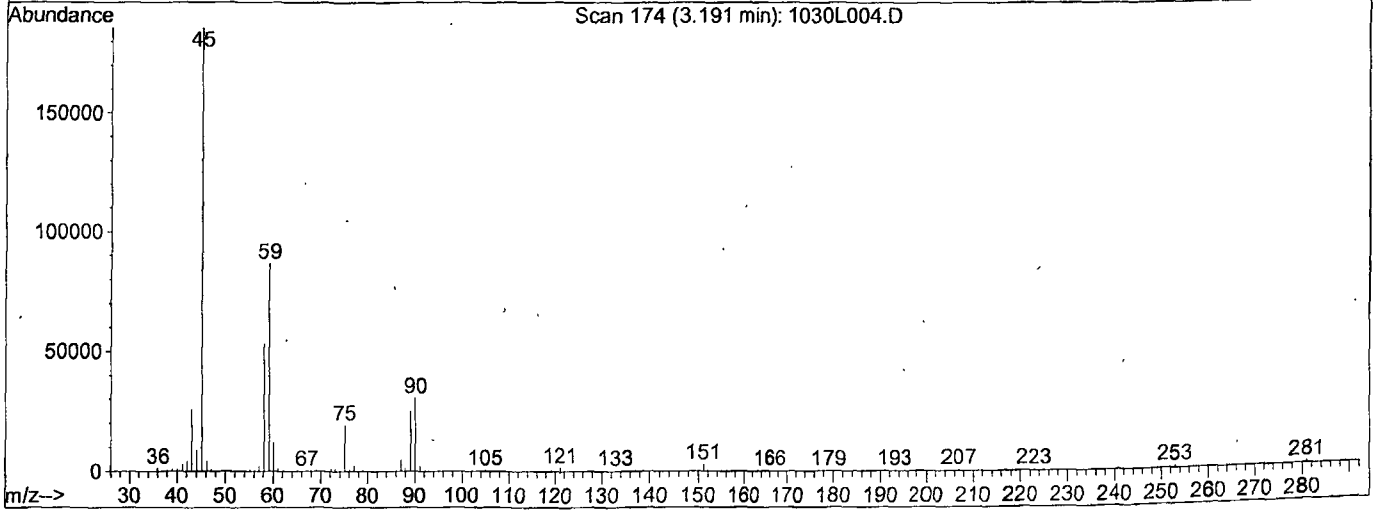
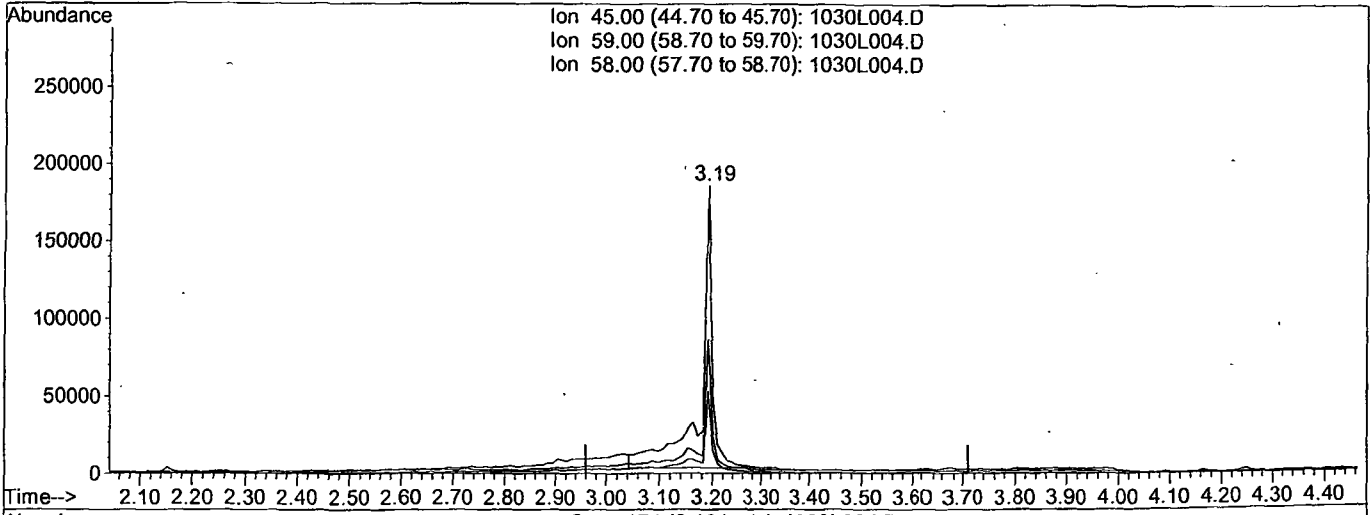


Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D
 Acq On : 31 Oct 19 11:50
 Sample : 50 2MEE 4/30/19
 Misc :
 Quant Time: Oct 31 12:04 2019

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 99.2279ppb

response 284001

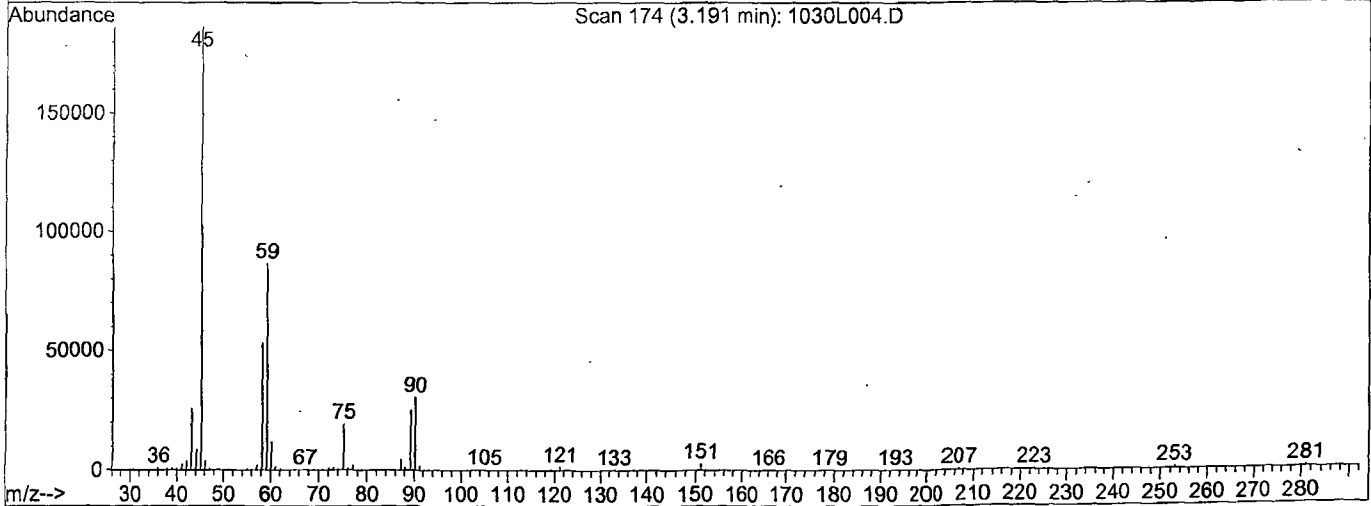
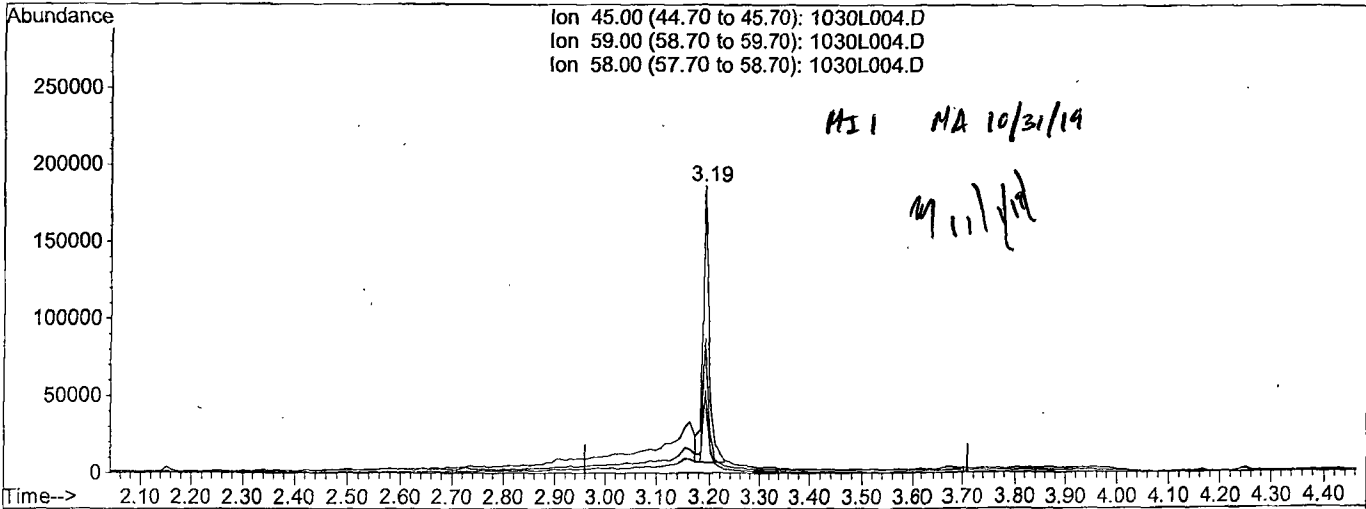
Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D
Acq On : 31 Oct 19 11:50
Sample : 50 2MEE 4/30/19
Misc :
Quant Time: Oct 31 12:28 2019

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 11:46:50 2019
Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 63.1910ppb m

response 145043

Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L005.D Vial: 5
 Acq On : 31 Oct 19 12:10 Operator: MA
 Sample : 100 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:29 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	802143	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3947022	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1905798	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3352515	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2935825	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2243163	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.19	45	254665	101.69486	ppb	93

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

Quantitation Report

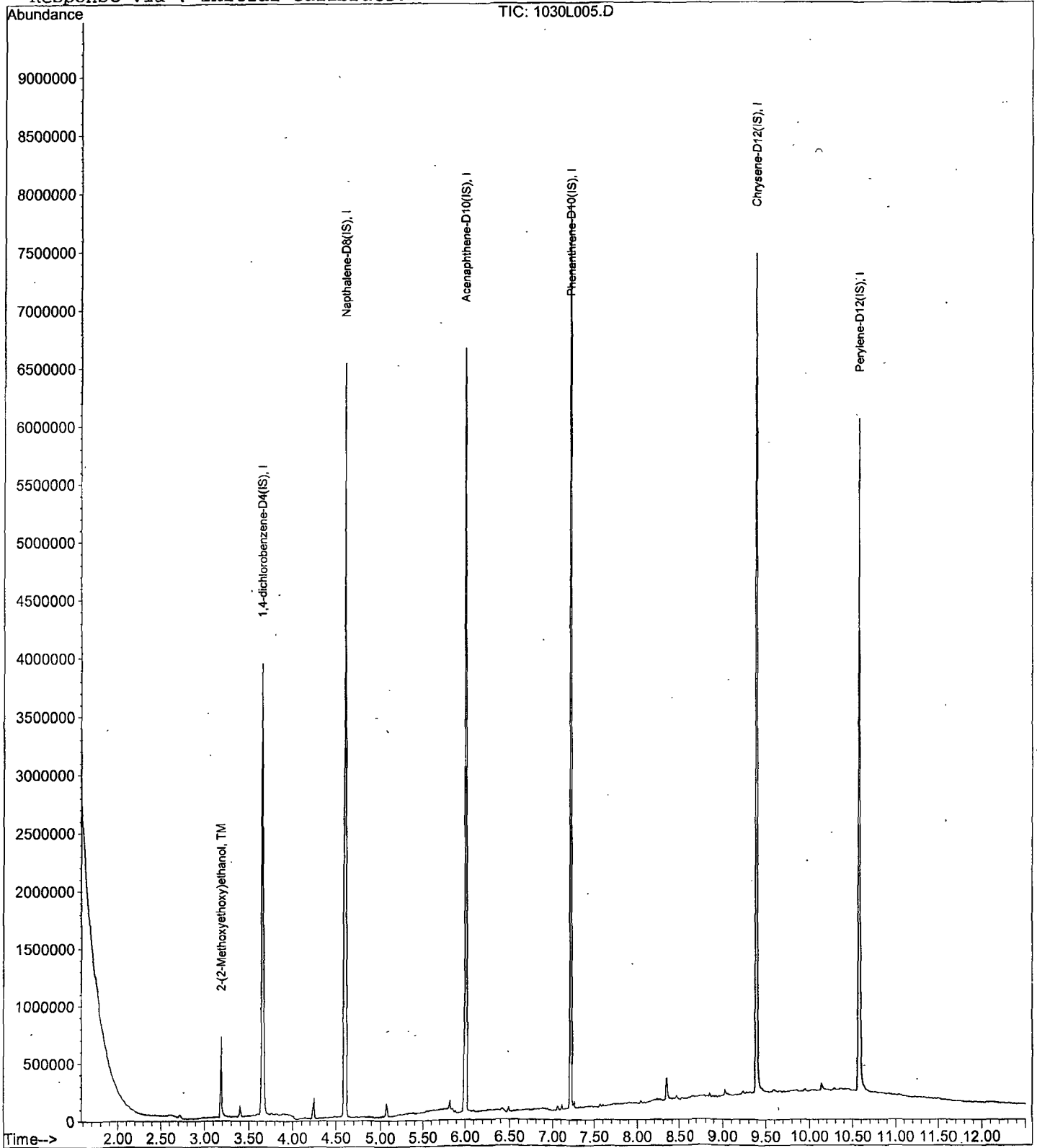
Data File : M:\LINUS\DATA\L191030M\1030L005.D
Acq On : 31 Oct 19 12:10
Sample : 100 2MEE 4/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:29 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L006.D
 Acq On : 31 Oct 19 12:29
 Sample : 200 2MEE 4/30/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	867176	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3930052	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2009214	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3319659	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	3235629	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2613264	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.20	45	519817	166.78709	ppb	99

Quantitation Report

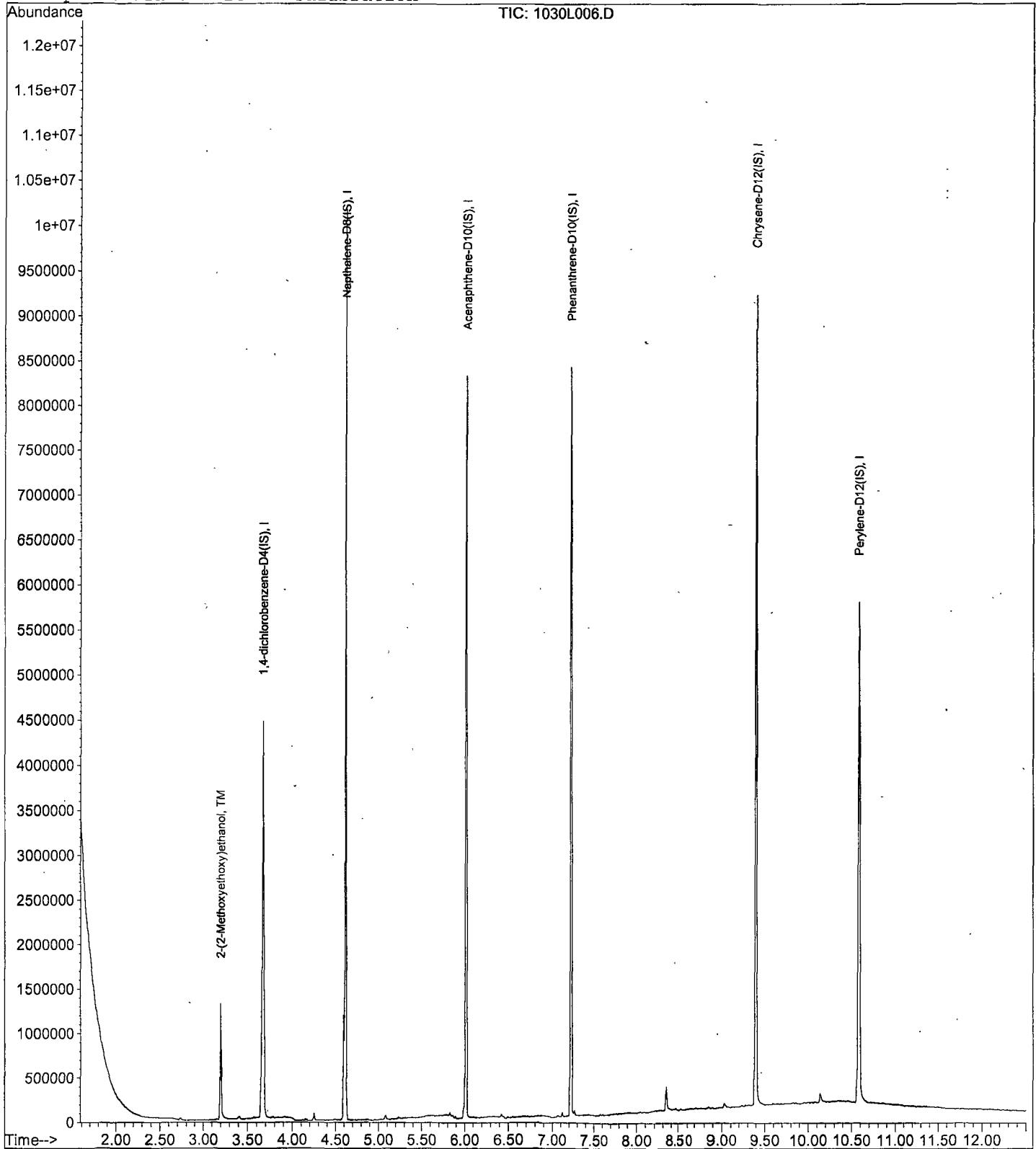
Data File : M:\LINUS\DATA\L191030M\1030L006.D
Acq On : 31 Oct 19 12:29
Sample : 200 2MEE 4/30/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
 Acq On : 31 Oct 19 12:49 Operator: MA
 Sample : 400 2MEE 4/30/19 not used. It got concen Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	768222	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3846001	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2102228	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3529522	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2845578	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2568289	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.22	45	1438559	476.21754	ppb	94

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

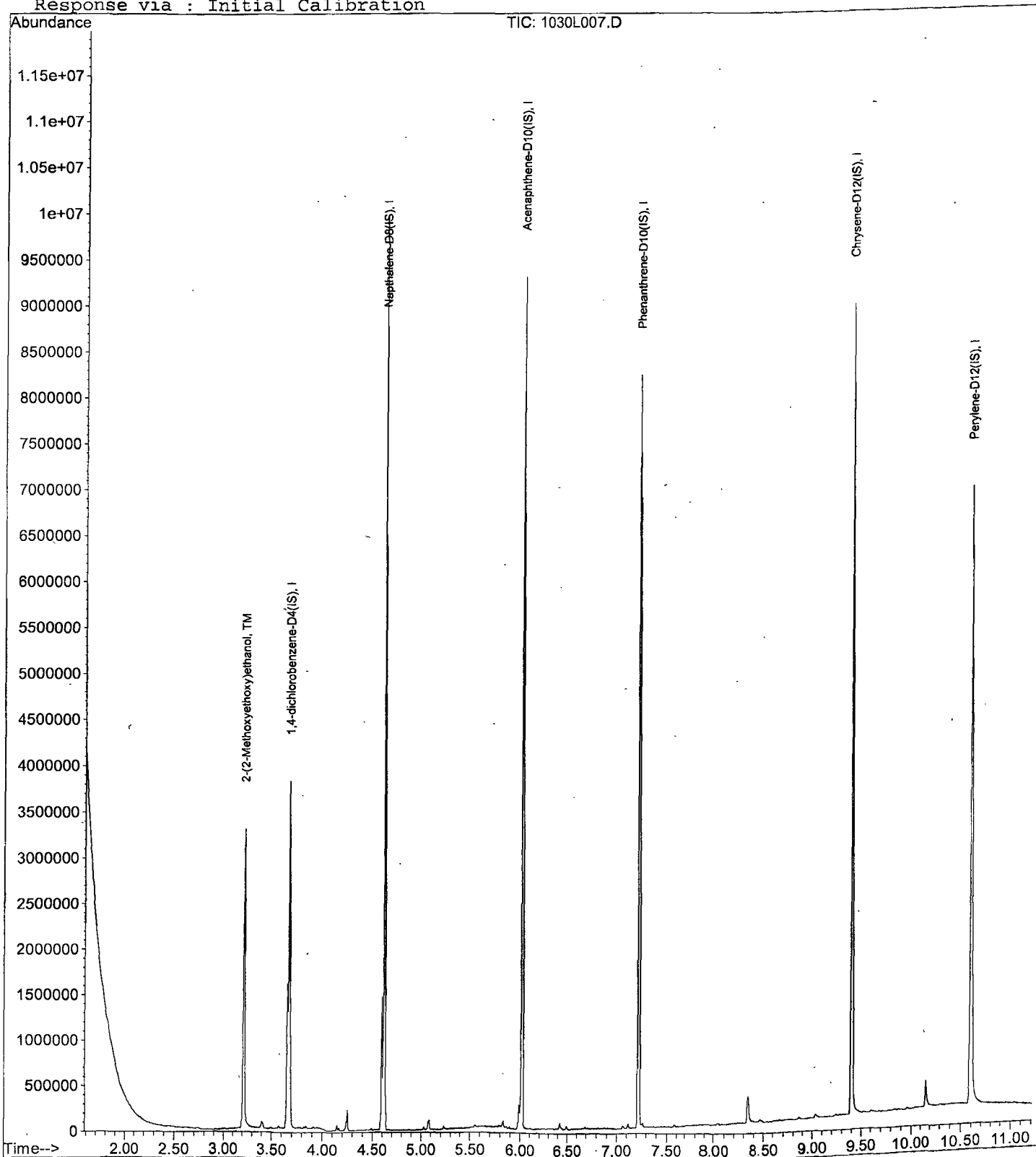
Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
Acq On : 31 Oct 19 12:49 Operator: MA
Sample : 400 2MEE 4/30/19 not used. It got concen Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L008.D Vial: 8
 Acq On : 31 Oct 19 13:07 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:14 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 14:14:39 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	772292	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3394425	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1712966	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2832000	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2510708	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2441015	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.21	45	1545173	578.42618	ppb	100

Quantitation Report

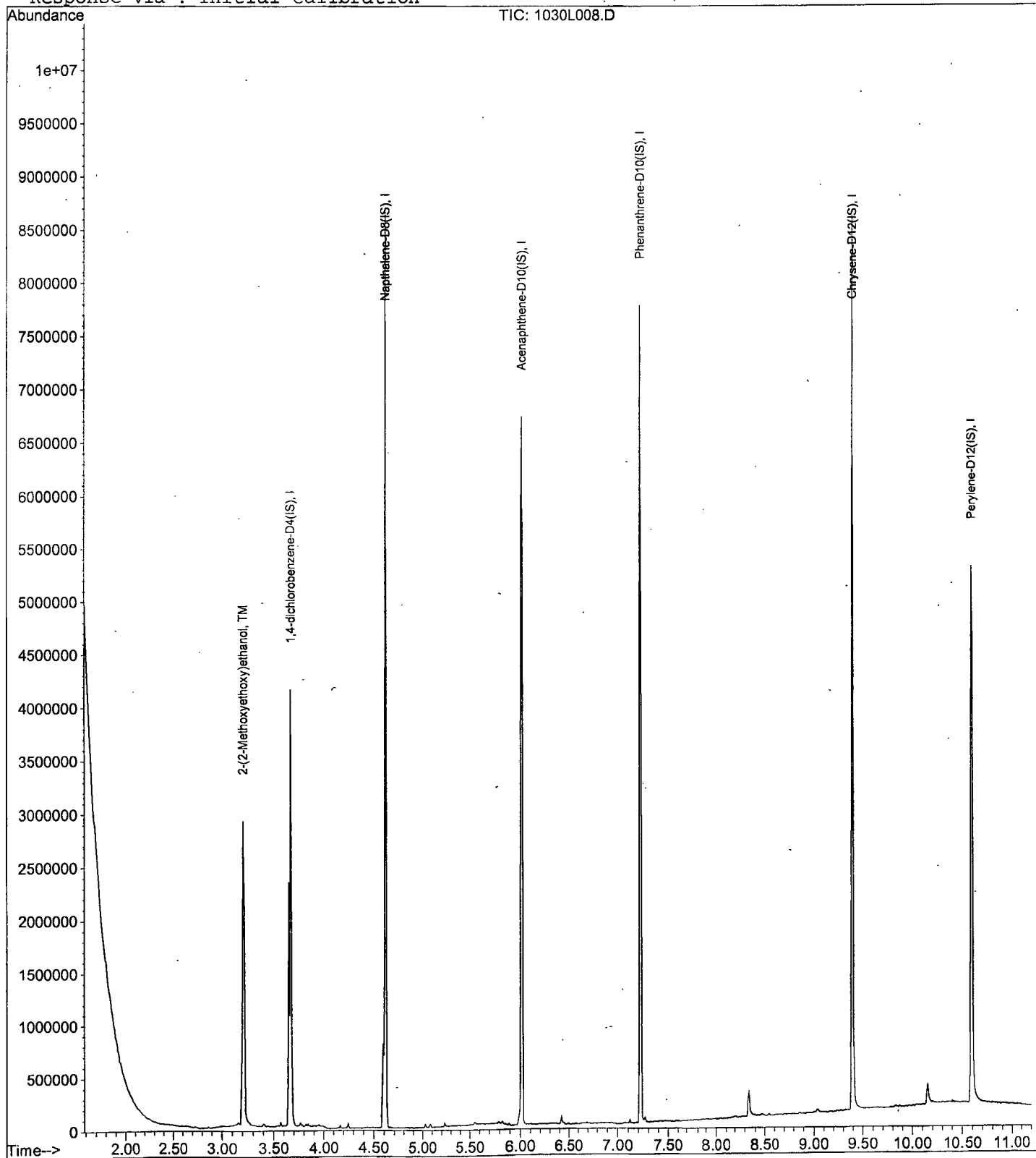
Data File : M:\LINUS\DATA\L191030M\1030L008.D
Acq On : 31 Oct 19 13:07
Sample : 500 2MEE 4/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:14 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L009.D
 Acq On : 31 Oct 19 13:25
 Sample : 600 2MEE 4/30/19
 Misc :

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 13:40 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	918679	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3995417	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2035544	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3476903	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2887642	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	2390309	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	1897302	517.69156	ppb	98

Quantitation Report

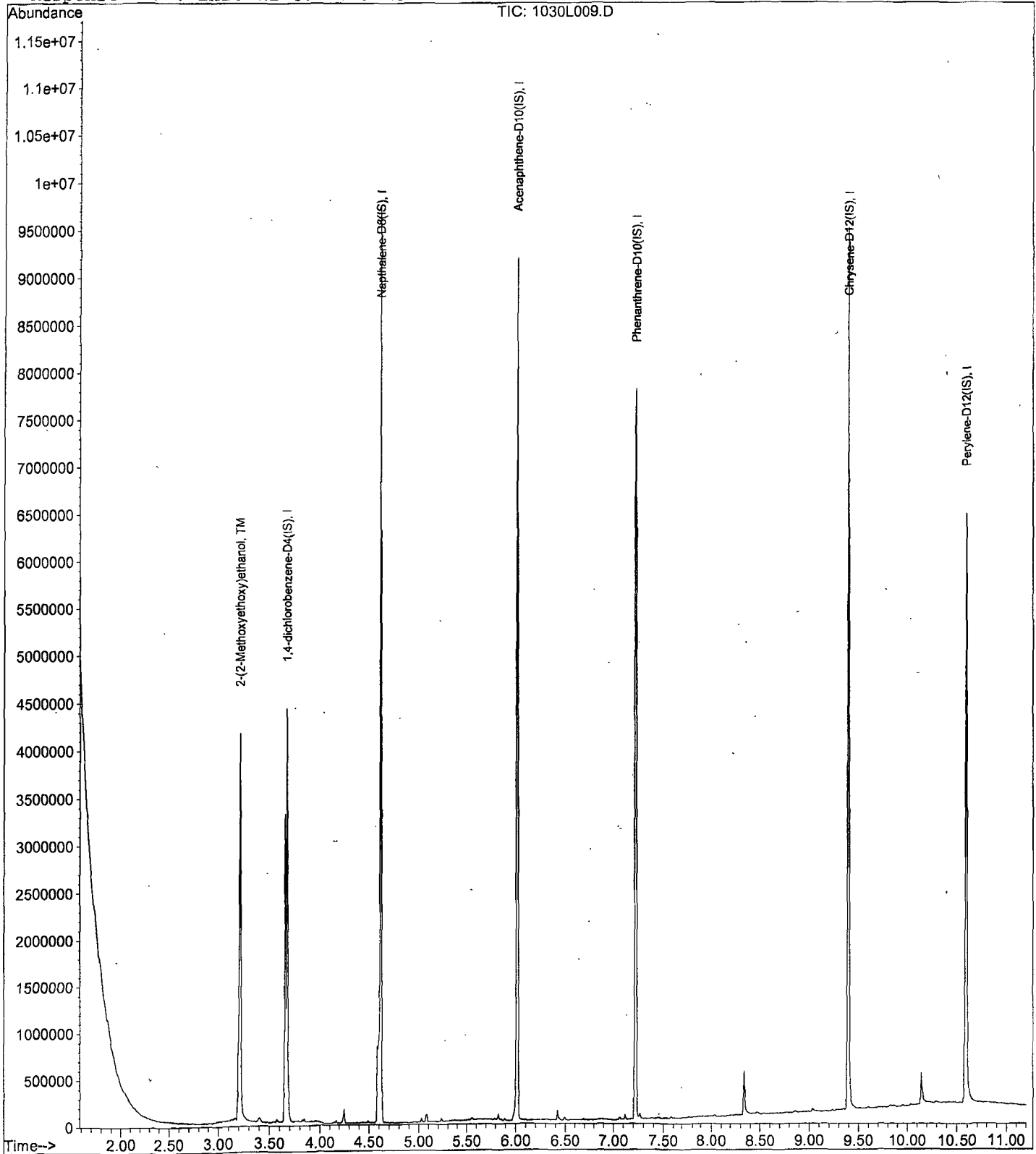
Data File : M:\LINUS\DATA\L191030M\1030L009.D
Acq On : 31 Oct 19 13:25
Sample : 600 2MEE 4/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:40 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L010.D Vial: 10
 Acq On : 31 Oct 19 13:43 Operator: MA
 Sample : 800 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:12 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	781913	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3819124	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2060420	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3432435	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	3218071	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.61	264	2421844	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.23	45	2499934	802.74185	ppb	98

Quantitation Report

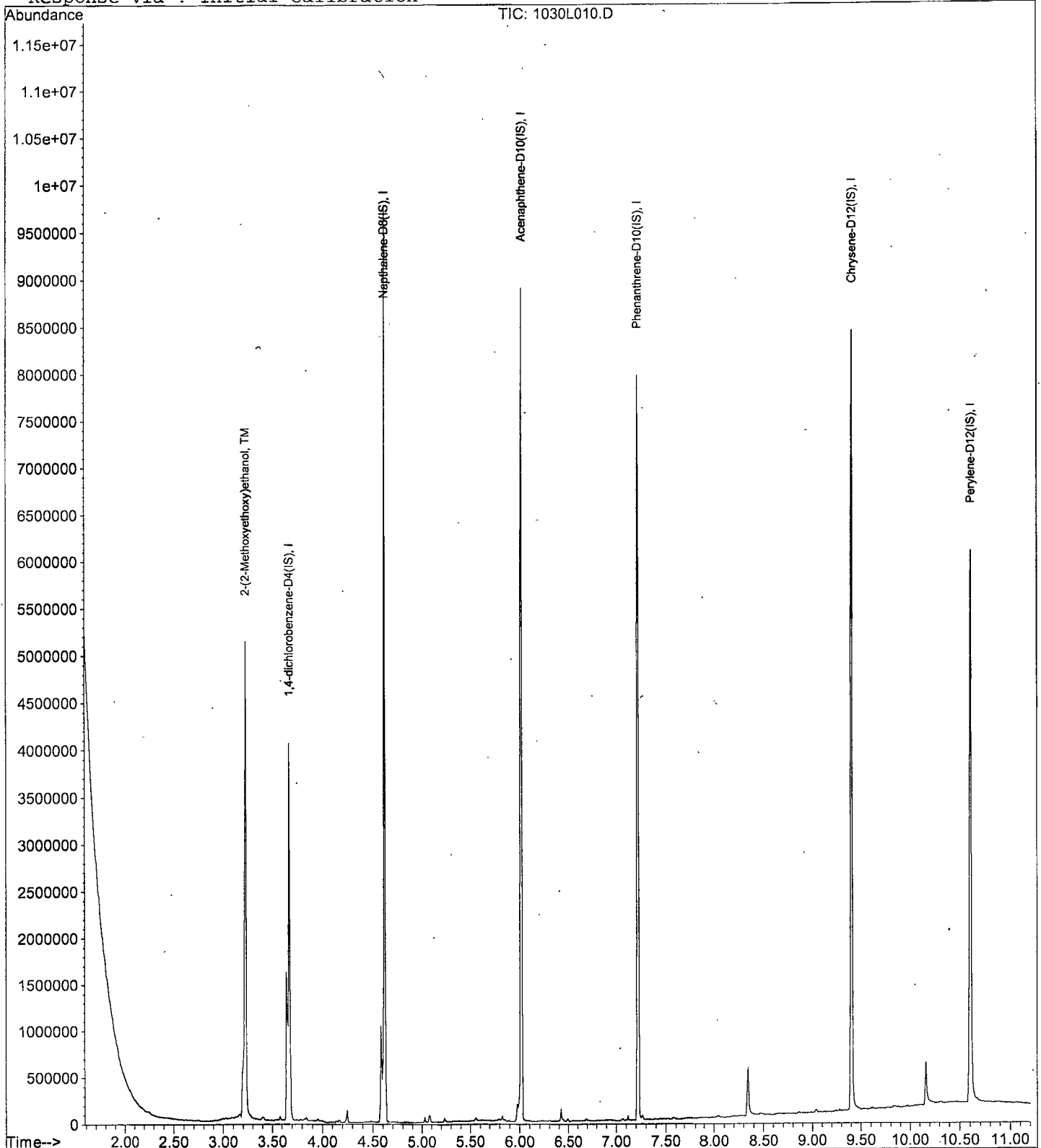
Data File : M:\LINUS\DATA\L191030M\1030L010.D
Acq On : 31 Oct 19 13:43
Sample : 800 2MEE 4/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:12 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L011.D
 Acq On : 31 Oct 19 14:02
 Sample : 1000 2MEE 4/30/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 31 14:13 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	893999	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4002209	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2003789	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3346119	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2853107	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2370540	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.23	45	3096034	880.60620	ppb	98

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

Quantitation Report

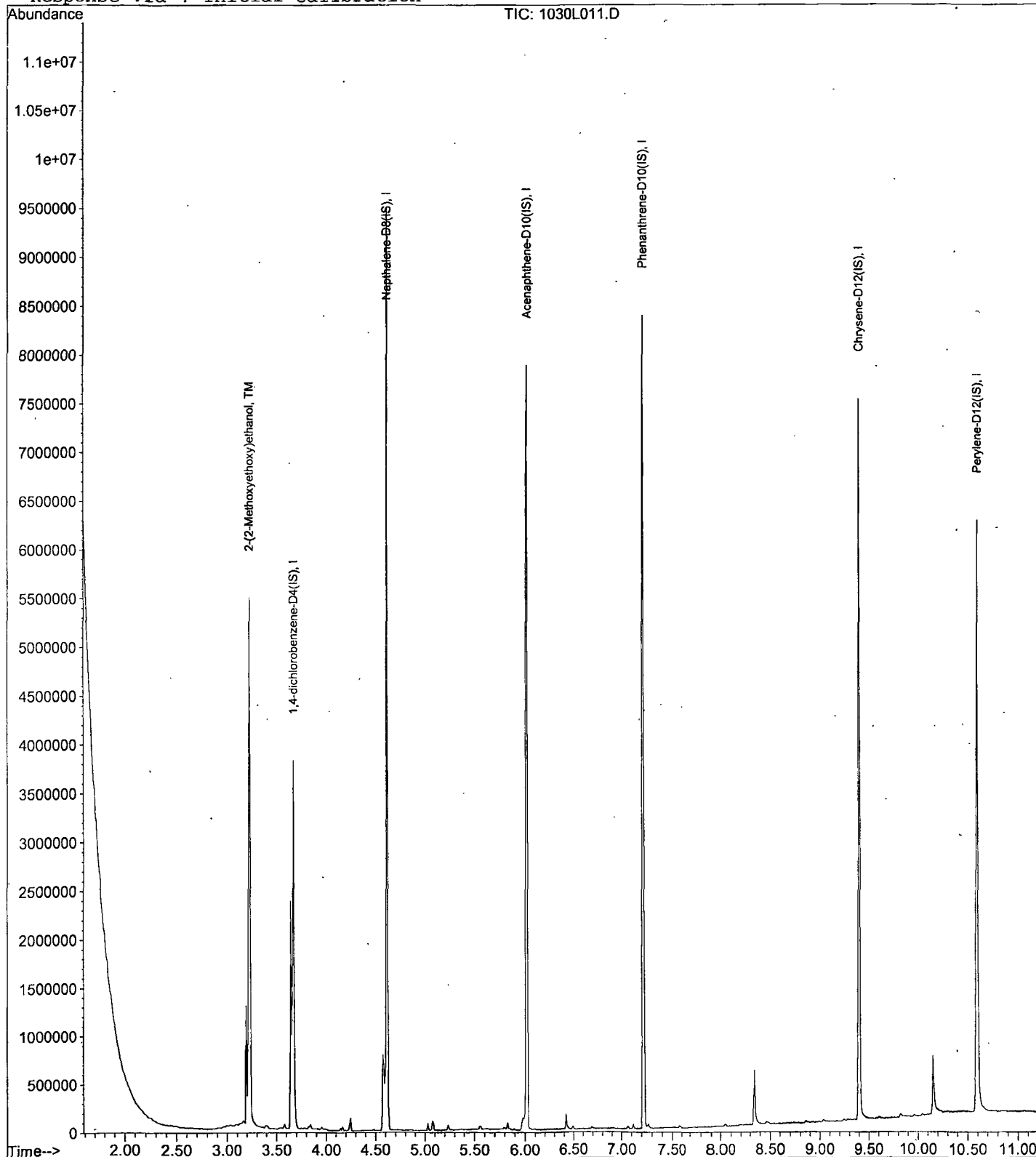
Data File : M:\LINUS\DATA\L191030M\1030L011.D
Acq On : 31 Oct 19 14:02
Sample : 1000 2MEE 4/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:13 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Secon Source Continuing Calibration

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

SDG No: _____
Date Analyzed: 1 Nov 19 17:11
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L016.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1658	20	TM
3	I Napthalene-D8(IS)	ISTD			I
4	I Acenaphthene-D10(IS)	ISTD			I
5	I Phenanthrene-D10(IS)	ISTD			I
6	I Chrysene-D12(IS)	ISTD			I
7	I Perylene-D12(IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
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36					
37					
38					
39					
40					

Average

20.0

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L016.D Vial: 16
 Acq On : 1 Nov 19 17:11 Operator: MA
 Sample : SS 2MEE 11/1/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 17:27 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:06:59 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	966230	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4151555	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2209408	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	4025811	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2795621	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	3078419	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	2003024	599.31894	ppb	100

Quantitation Report

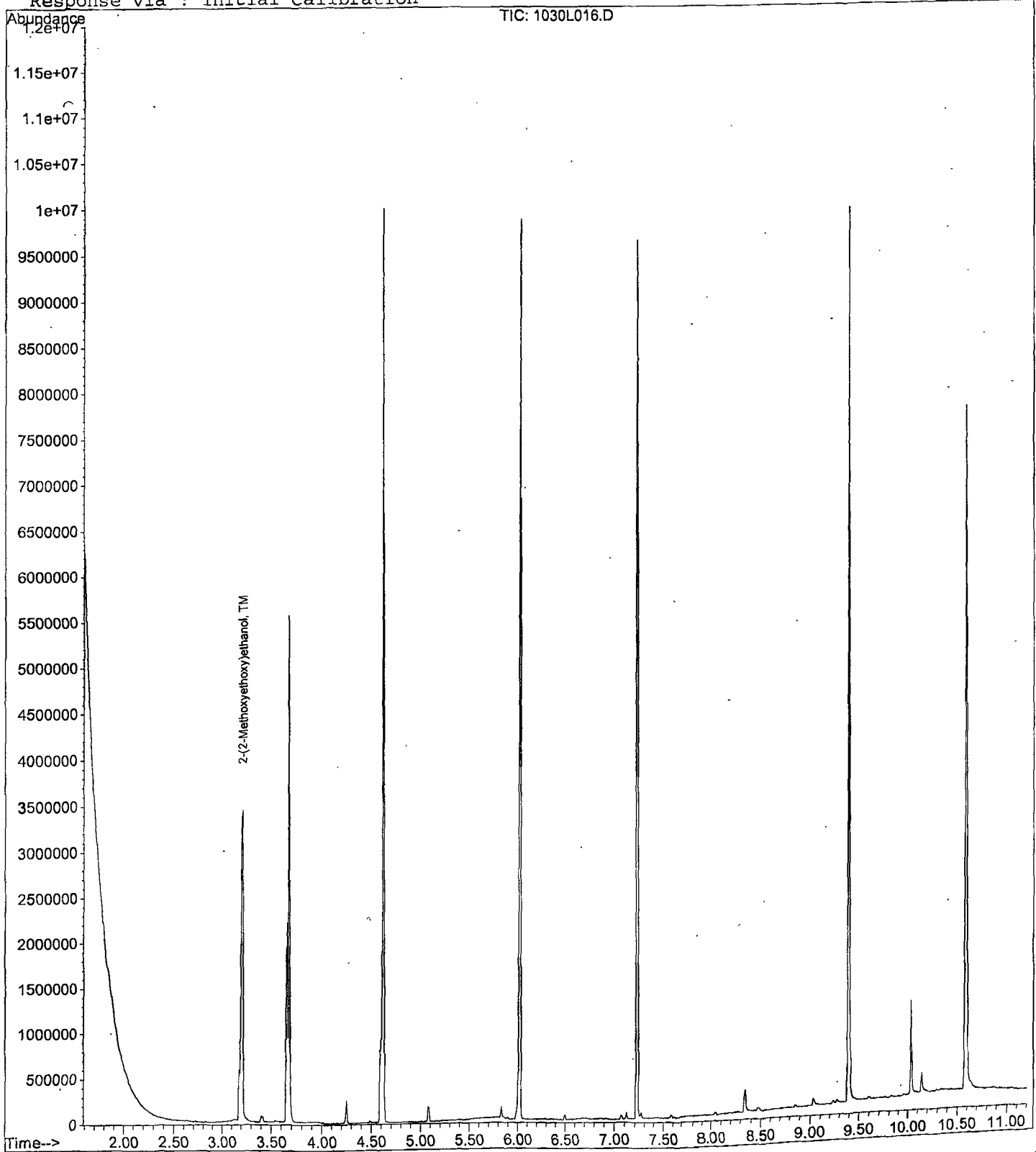
Data File : M:\LINUS\DATA\L191030M\1030L016.D
Acq On : 1 Nov 19 17:11
Sample : SS 2MEE 11/1/19
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 17:27 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 1 Nov 19 16:15

Matrix: _____

Instrument: Linus

Initial Cal. Date: 10/31/19

Data File: 1030L015.D

	Compound	MEAN	CCRF	%D	%Drift
1	| 1,4-dichlorobenzene-D4(IS)	ISTD			|
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1528	10	TM
3	| Napthalene-D8(IS)	ISTD			|
4	| Acenaphthene-D10(IS)	ISTD			|
5	Phenanthrene-D10(IS)	ISTD			
6	Chrysene-D12(IS)	ISTD			
7	Perylene-D12(IS)	ISTD			
8					
9					
10					
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36					
37					
38					
39					
40	Average			10.0	

Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L015.D Vial: 15
 Acq On : 1 Nov 19 16:15 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 16:30 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 14:18:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.65	152	892511	40.00000	ppb	-0.03
3) Napthalene-D8 (IS)	4.62	136	4064584	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2071335	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3678193	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	3053819	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.61	264	2924479	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.20	45	1705168	552.33933	ppb	99

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

Quantitation Report

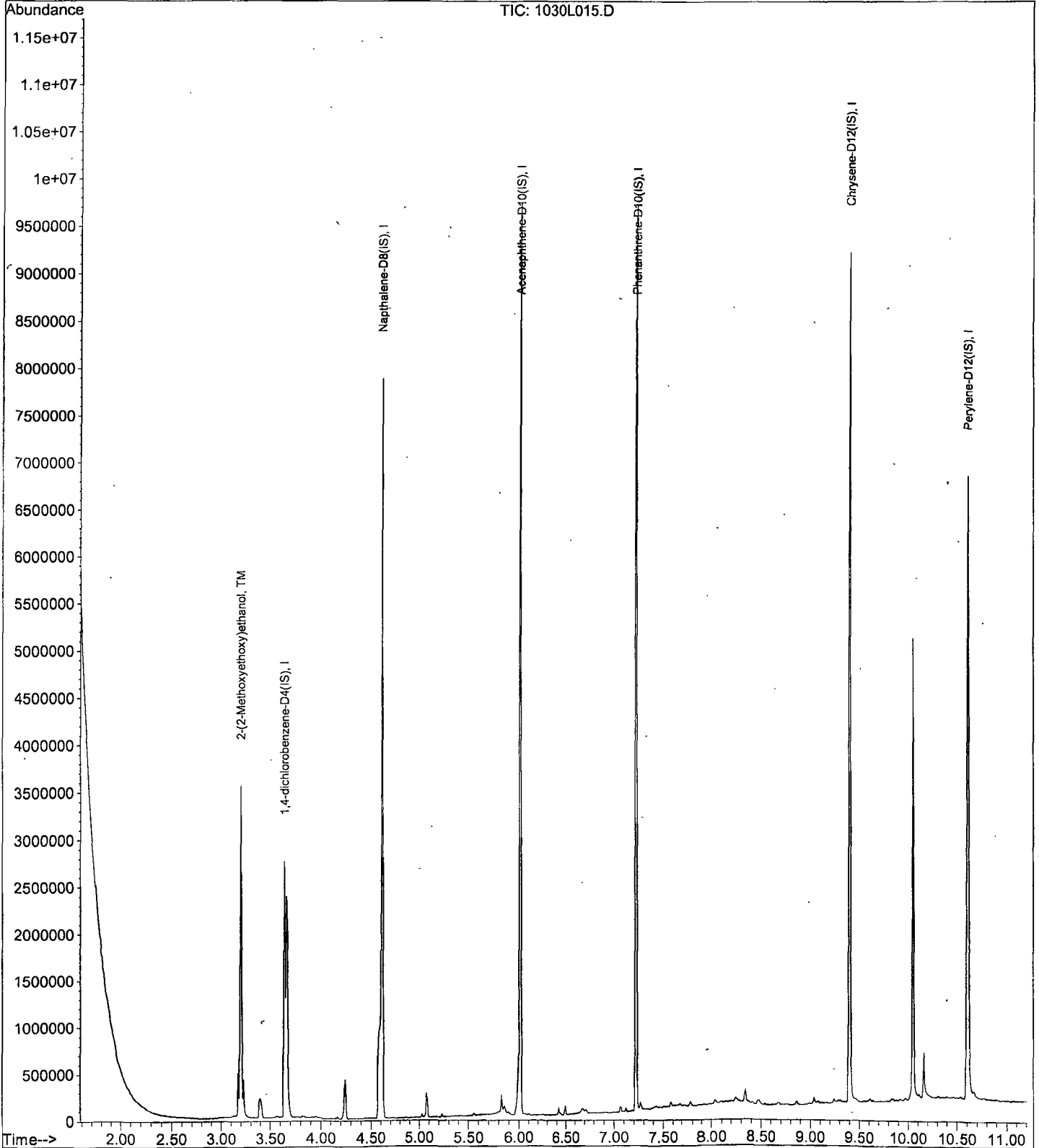
Data File : M:\LINUS\DATA\L191030M\1030L015.D
Acq On : 1 Nov 19 16:15
Sample : 500 2MEE 4/30/19
Misc :

Vial: 15
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 16:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7
Continuing Calibration

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

SDG No: _____
Date Analyzed: 2 Nov 19 00:07
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L039.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.1384	0.1534	11	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
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38						
39						
40						

Average

11.0

Data File : M:\LINUS\DATA\L191030M\1030L039.D Vial: 39
 Acq On : 2 Nov 19 00:07 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:39 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	891531m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3825839	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1833836	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3287488	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	3160925	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	3110577	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.20	45	1709393	554.31654	ppb	93

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

Quantitation Report

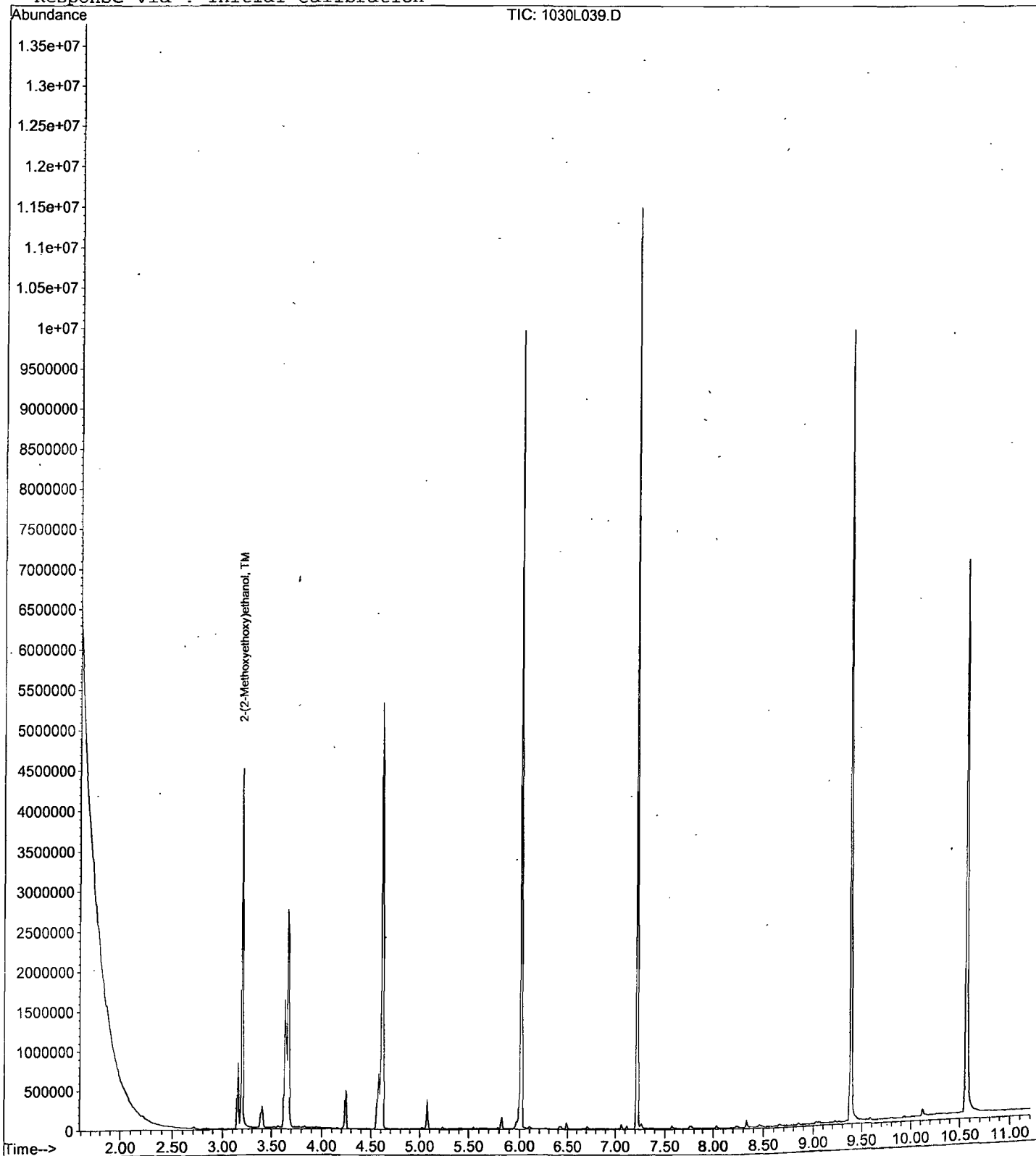
Data File : M:\LINUS\DATA\L191030M\1030L039.D
Acq On : 2 Nov 19 00:07
Sample : 500 2MEE 4/30/19
Misc :

Vial: 39
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:39 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration

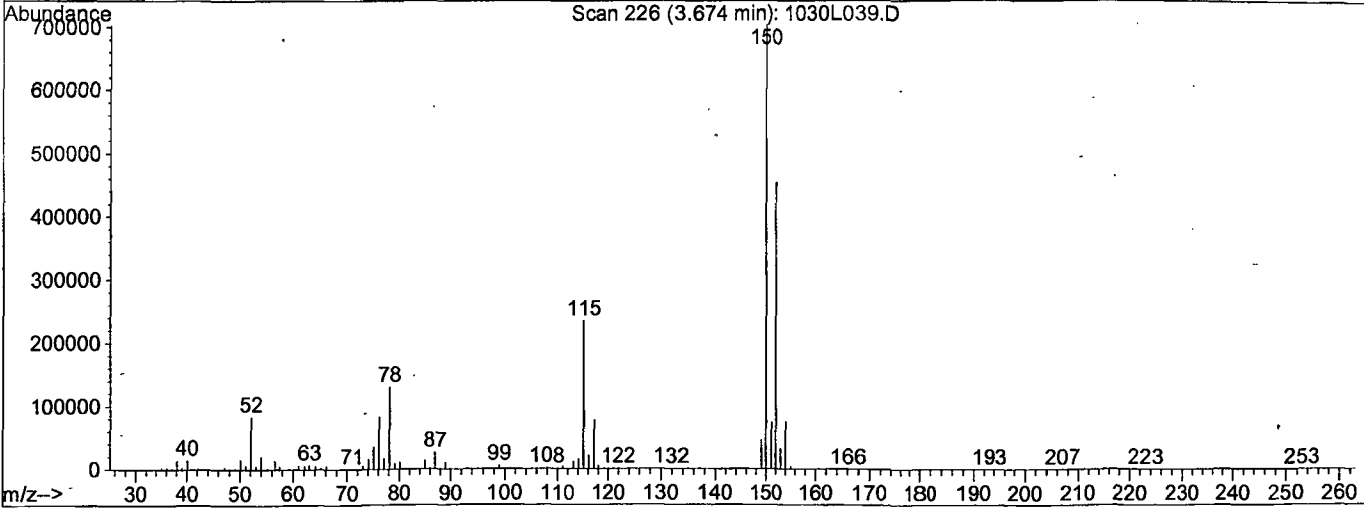
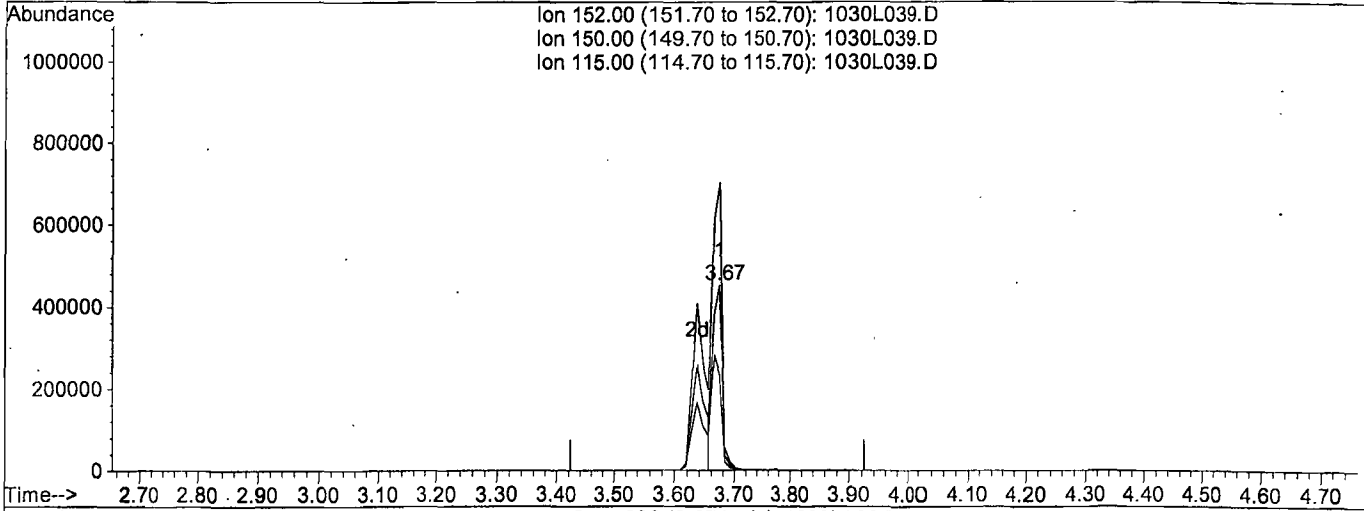


Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L039.D
 Acq On : 2 Nov 19 00:07
 Sample : 500 2MEE 4/30/19
 Misc :
 Quant Time: Nov 2 12:38 2019

Vial: 39
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Multiple Level Calibration



TIC: 1030L039.D

(1) 1,4-dichlorobenzene-D4(IS) (I)

3.67min 40.0000ppb

response 495213

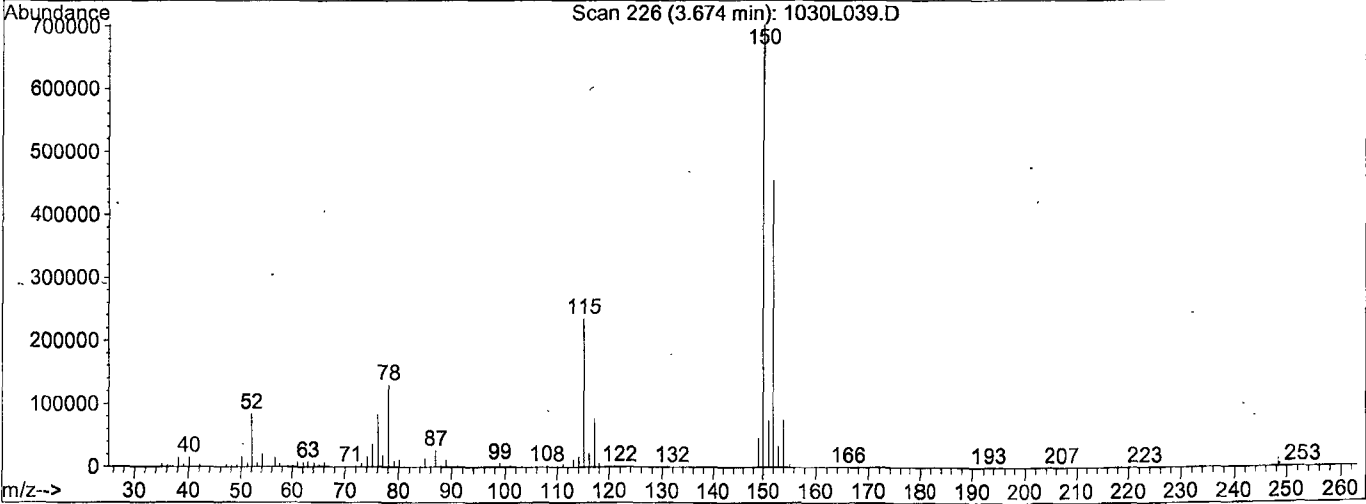
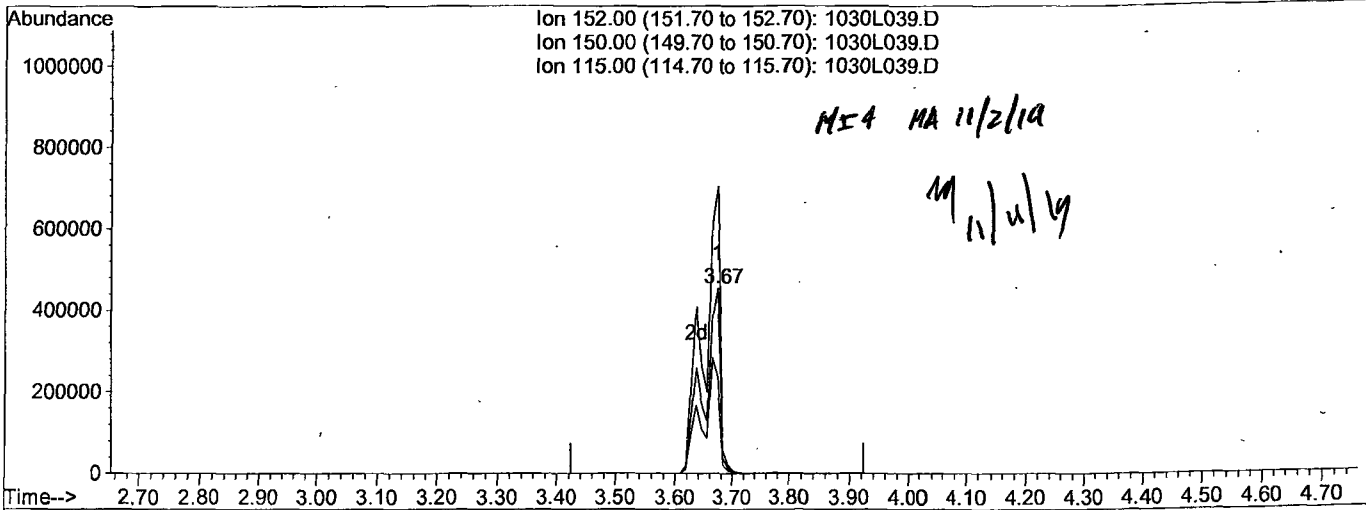
Ion	Exp%	Act%
152.00	100	100
150.00	157.00	155.00
115.00	59.10	51.72
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L039.D
 Acq On : 2 Nov 19 00:07
 Sample : 500 2MEE 4/30/19
 Misc :
 Quant Time: Nov 2 12:39 2019

Vial: 39
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Multiple Level Calibration



TIC: 1030L039.D

(1) 1,4-dichlorobenzene-D4(IS) (l)

3.67min 40.0000ppb m

response 891531

Ion	Exp%	Act%
152.00	100	100
150.00	157.00	154.82
115.00	59.10	51.71
0.00	0.00	0.00

ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L191030M\1030L033.D Vial: 33
 Acq On : 1 Nov 19 22:20 Operator: MA
 Sample : BA01775W07 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	727465	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2911045	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1412014	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2747291	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1848431	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.55	264	2120877	40.00000	ppb	-0.05

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

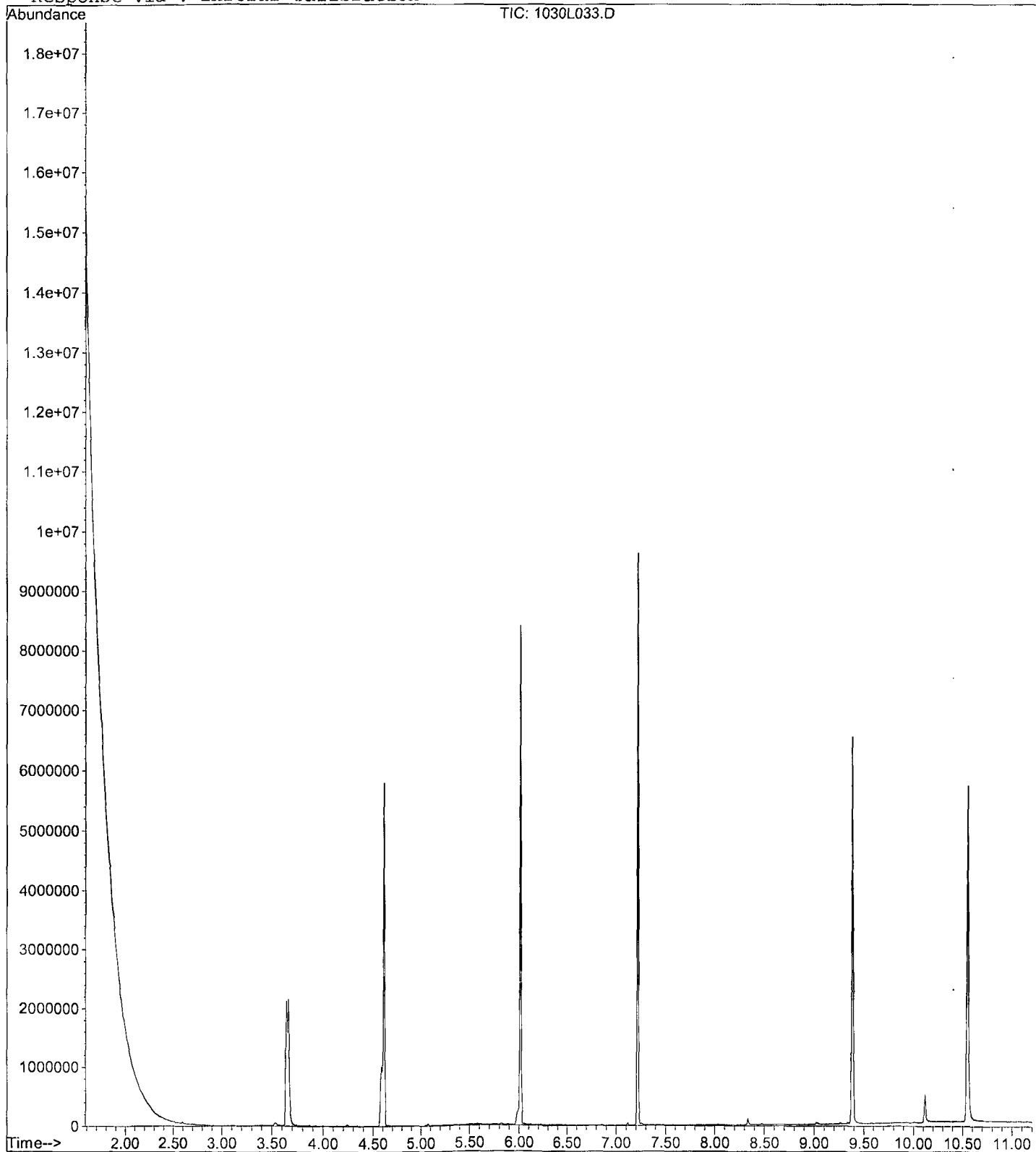
Data File : M:\LINUS\DATA\L191030M\1030L033.D
Acq On : 1 Nov 19 22:20
Sample : BA01775W07 2/500
Misc :

Vial: 33
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L034.D
 Acq On : 1 Nov 19 22:38
 Sample : BA01777W08 2/500
 Misc :

Vial: 34
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	739954	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2961761	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1410570	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2724012	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.38	240	1904234	40.00000	ppb	-0.02
7) Perylene-D12 (IS)	10.55	264	2121599	40.00000	ppb	-0.05

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

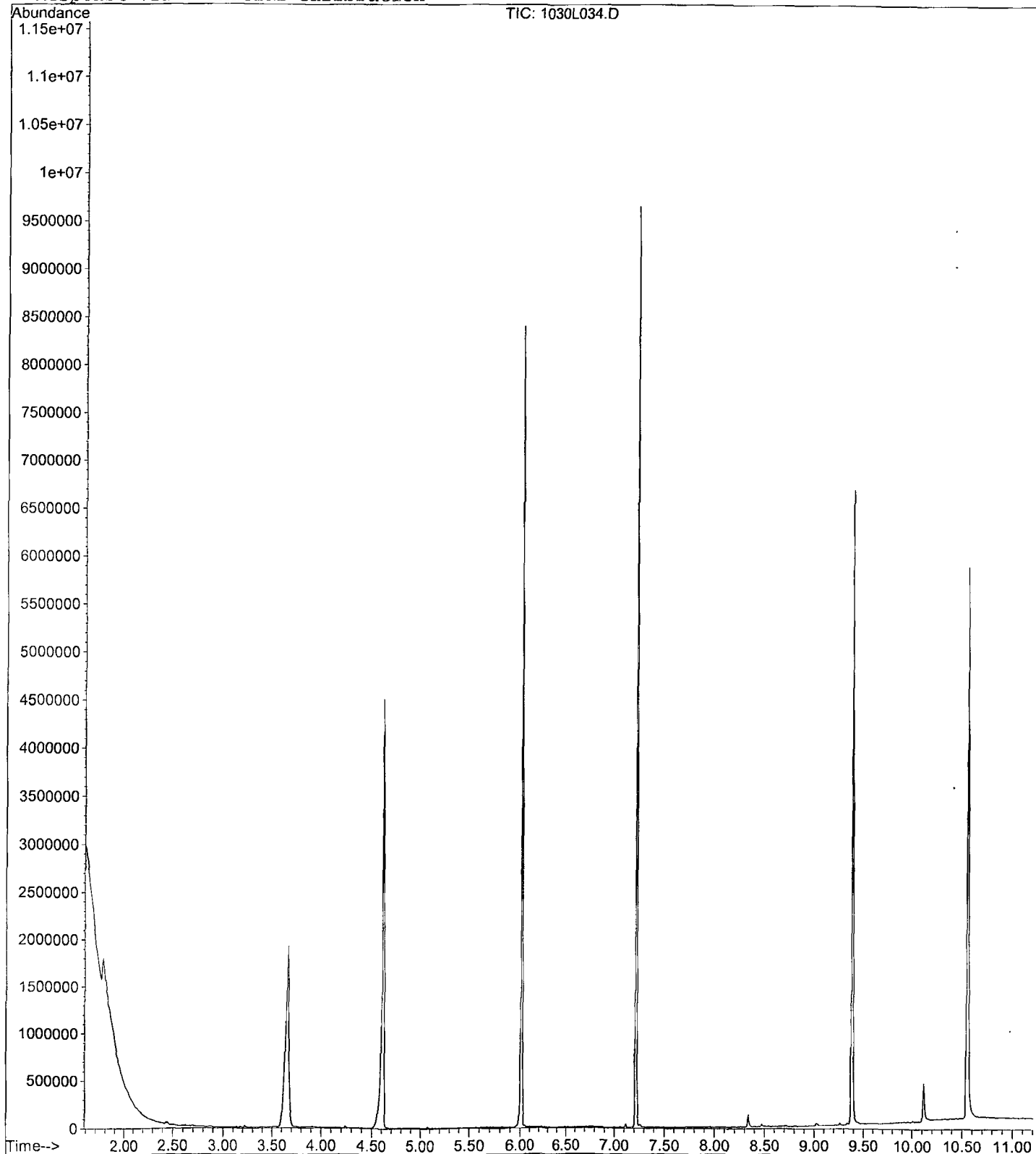
Data File : M:\LINUS\DATA\L191030M\1030L034.D
Acq On : 1 Nov 19 22:38
Sample : BA01777W08 2/500
Misc :

Vial: 34
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L035.D Vial: 35
 Acq On : 1 Nov 19 22:56 Operator: MA
 Sample : BA01779W08 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	743333	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	4.61	136	2964802	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1420472	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2802173	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2175710	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2097361	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

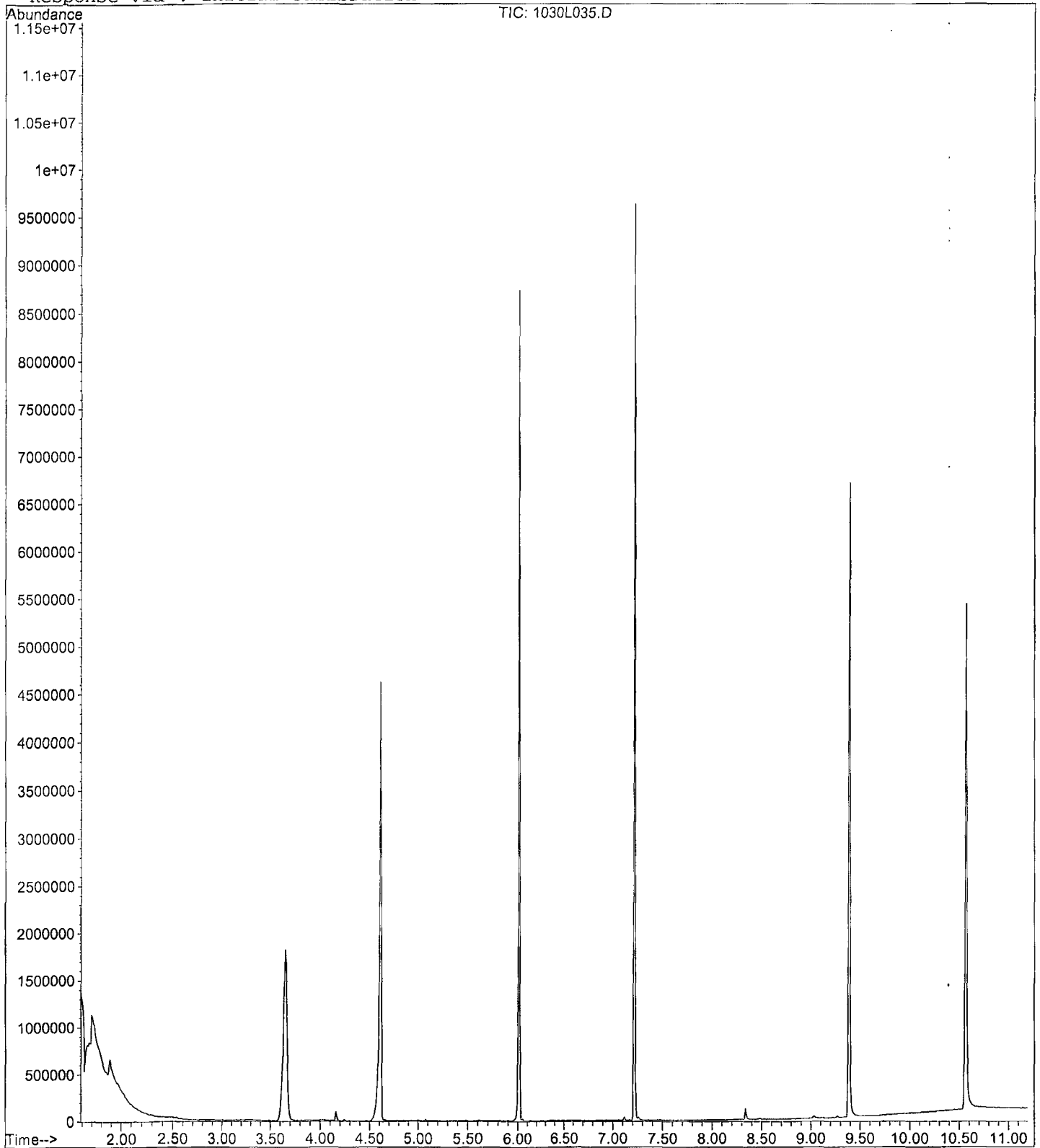
Data File : M:\LINUS\DATA\L191030M\1030L035.D
Acq On : 1 Nov 19 22:56
Sample : BA01779W08 2/500
Misc :

Vial: 35
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L036.D Vial: 36
 Acq On : 1 Nov 19 23:13 Operator: MA
 Sample : BA01781W09 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	718075	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2875424	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1397062	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2664470	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2088140	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2038448	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

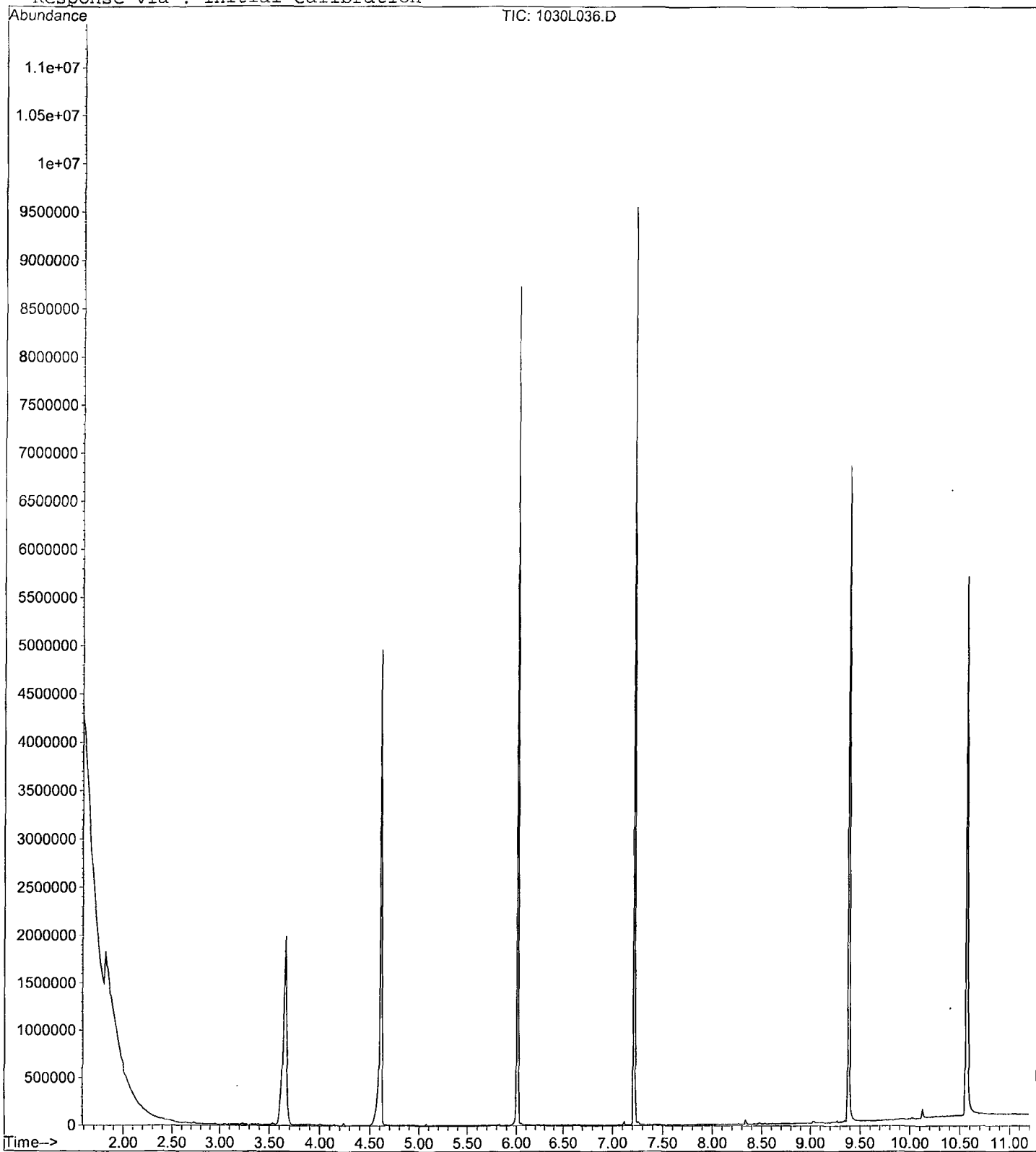
Data File : M:\LINUS\DATA\L191030M\1030L036.D
Acq On : 1 Nov 19 23:13
Sample : BA01781W09 2/500
Misc :

Vial: 36
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L037.D Vial: 37
 Acq On : 1 Nov 19 23:31 Operator: MA
 Sample : BA01782W07 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	731928	40.00000	ppb	-0.02
3) Napthalene-D8 (IS)	4.61	136	2945346	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1458036	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2804733	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2035649	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2189243	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

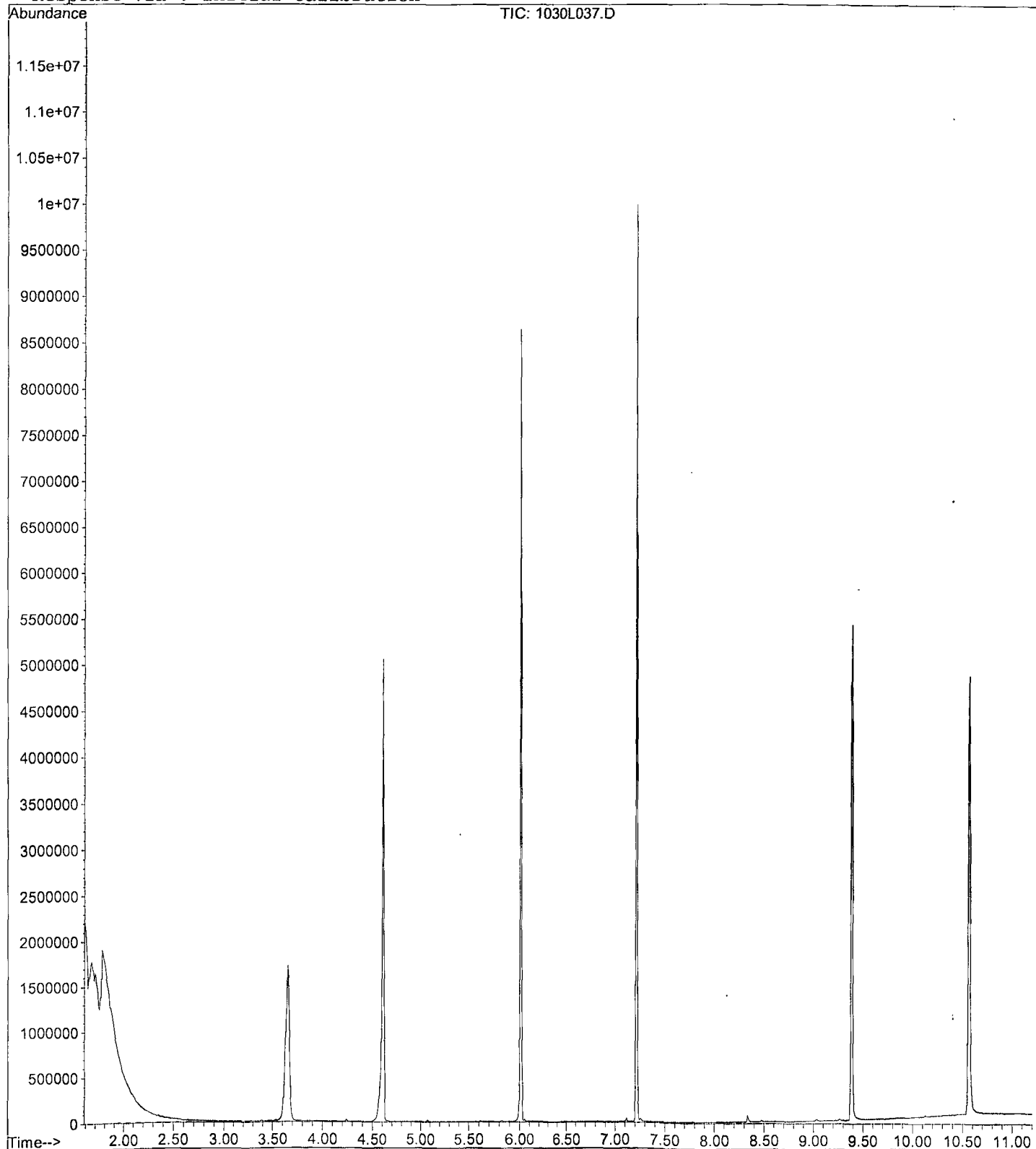
Data File : M:\LINUS\DATA\L191030M\1030L037.D
Acq On : 1 Nov 19 23:31
Sample : BA01782W07 2/500
Misc :

Vial: 37
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L038.D Vial: 38
 Acq On : 1 Nov 19 23:49 Operator: MA
 Sample : BA01784W13 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:59 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	707416	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	2768345	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1367251	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2753903	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2024108	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2177901	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

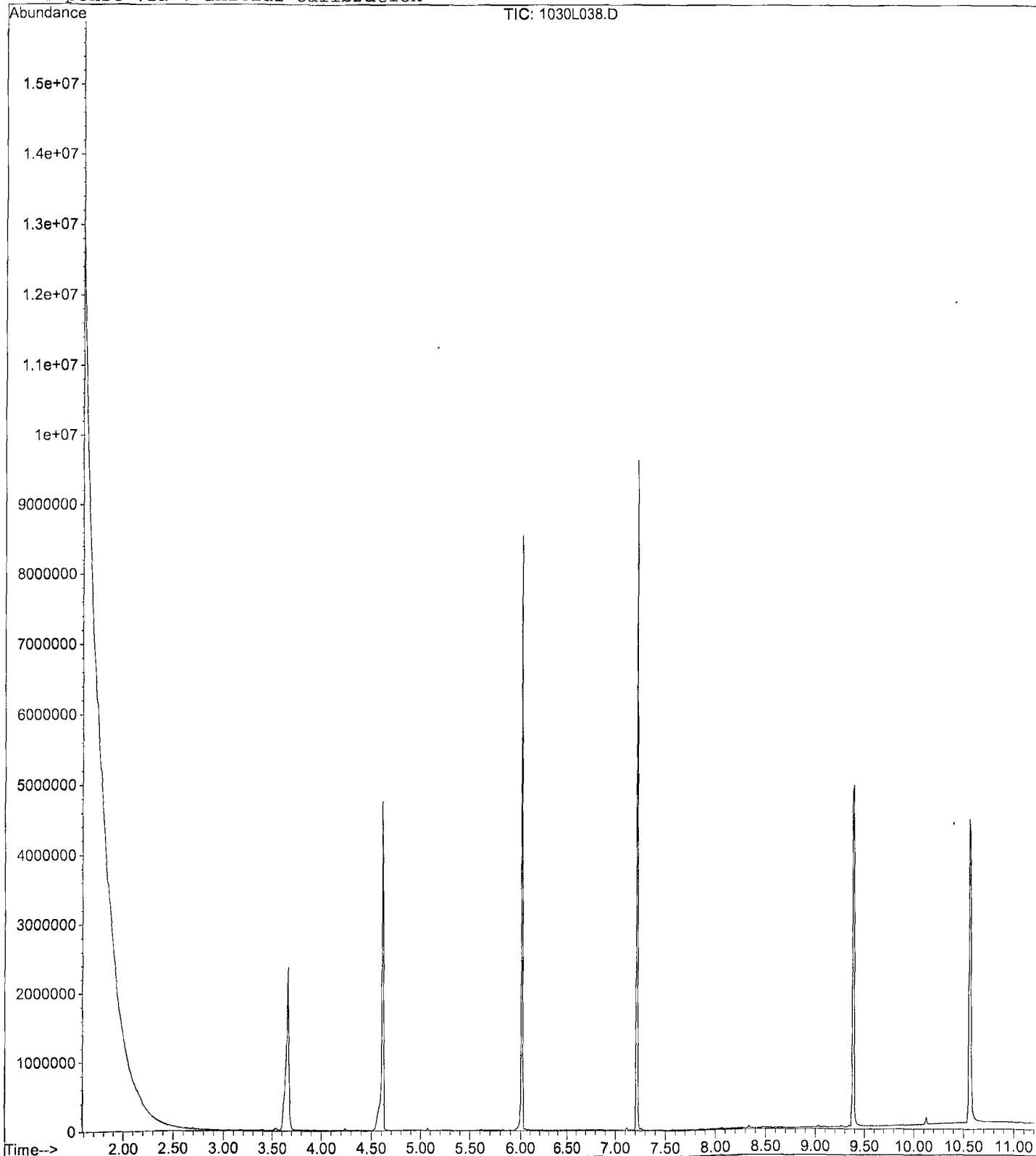
Data File : M:\LINUS\DATA\L191030M\1030L038.D
Acq On : 1 Nov 19 23:49
Sample : BA01784W13 2/500
Misc :

Vial: 38
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:59 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L018.D Vial: 18
 Acq On : 1 Nov 19 17:48 Operator: MA
 Sample : 191028A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:54 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	805766	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3426527	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1574221	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2673076	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2103487	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2452804	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

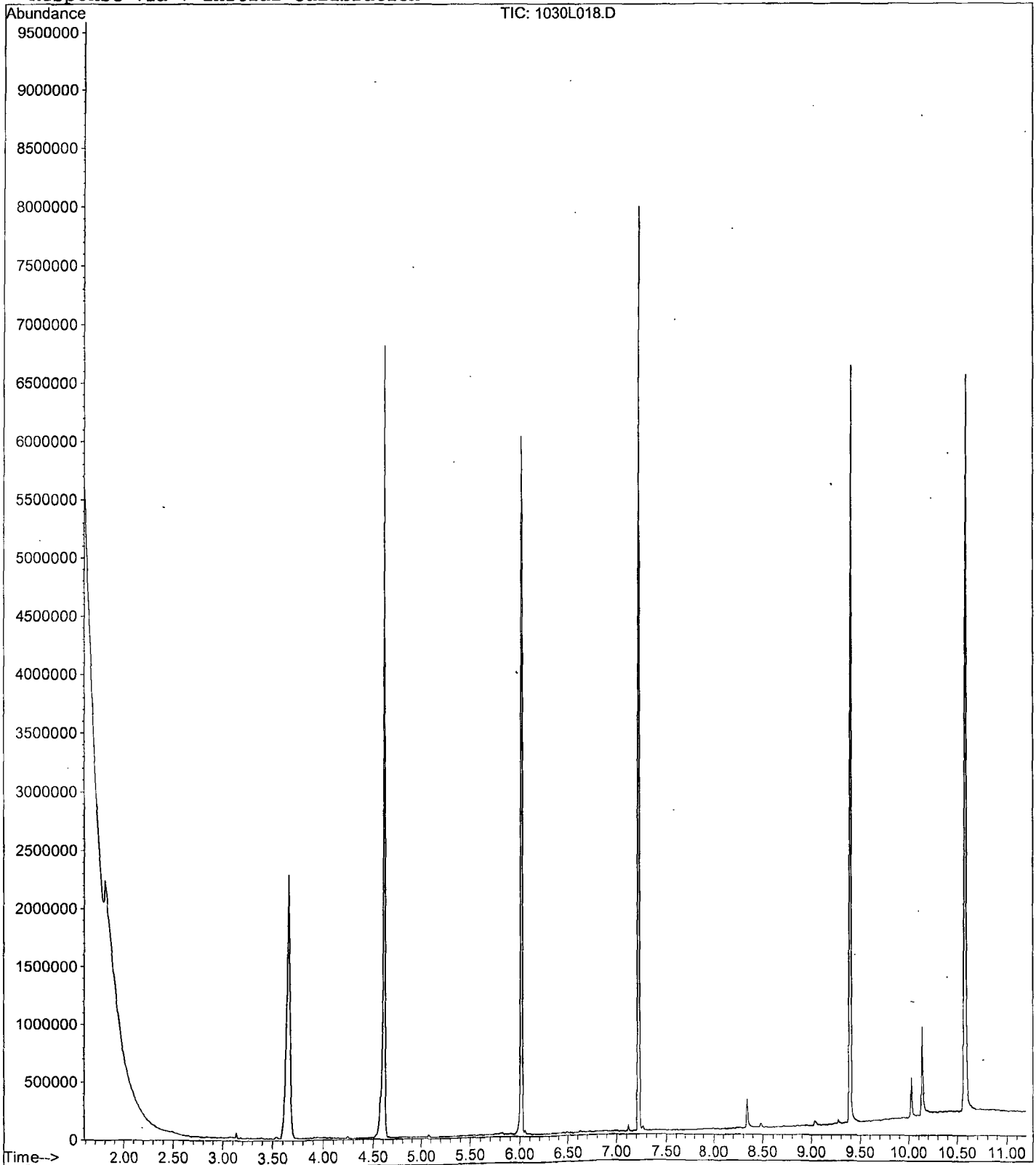
Data File : M:\LINUS\DATA\L191030M\1030L018.D
Acq On : 1 Nov 19 17:48
Sample : 191028A BLK 2/500
Misc :

Vial: 18
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:54 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L017.D Vial: 17
 Acq On : 1 Nov 19 17:30 Operator: MA
 Sample : 191028A LCS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 17:44 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	707122	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	2888555	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1352673	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2422735	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	1805294	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2122418	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
-2) 2-(2-Methoxyethoxy) ethanol	3.23	45	269371	110.13082	ppb	100

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

Quantitation Report

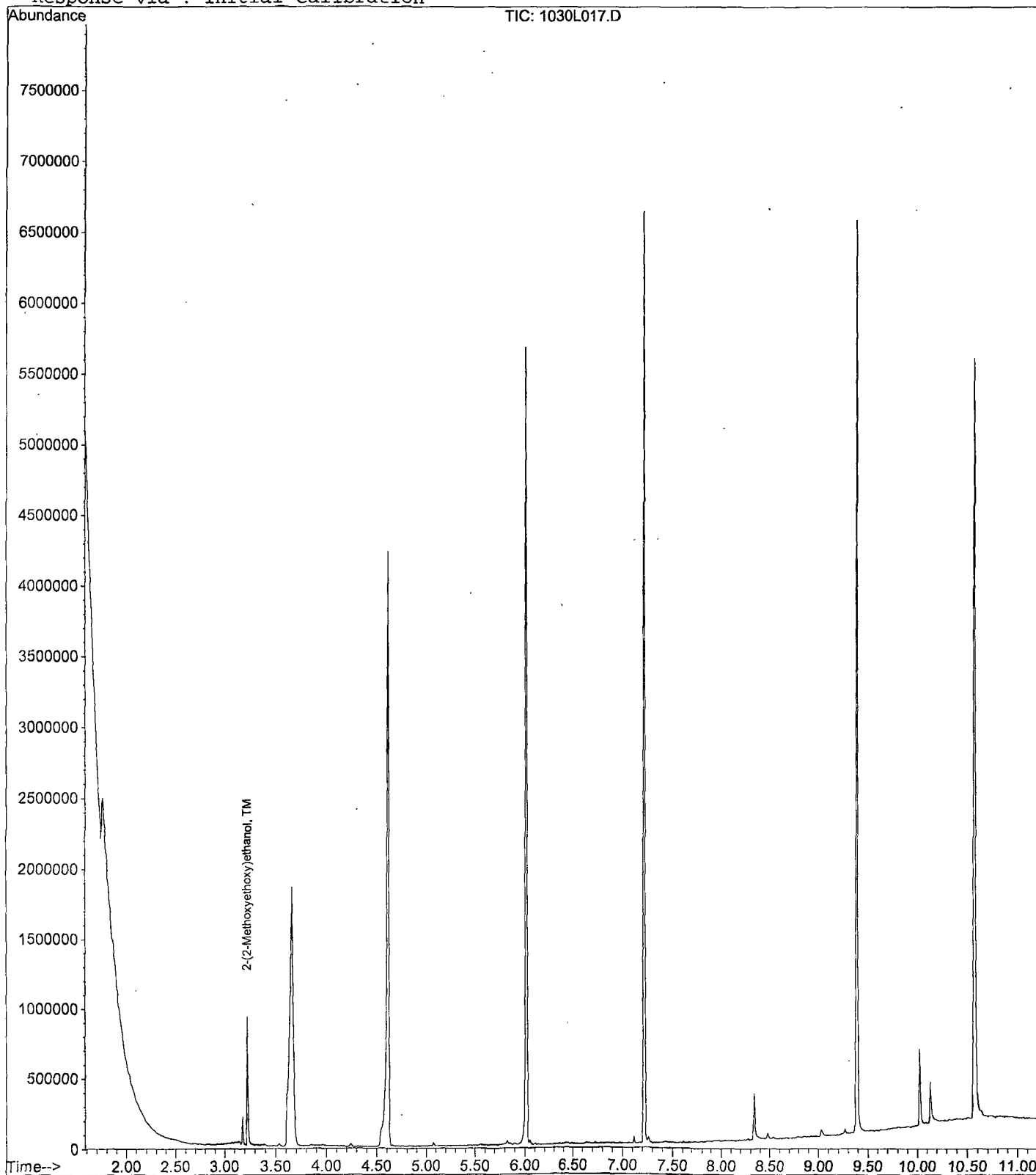
Data File : M:\LINUS\DATA\L191030M\1030L017.D
Acq On : 1 Nov 19 17:30
Sample : 191028A LCS-1 2/500
Misc :

Vial: 17
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 17:44 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L019.D Vial: 19
 Acq On : 1 Nov 19 18:07 Operator: MA
 Sample : 191028A LCSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 2 12:54 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	830353	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3497756	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1608718	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2770300	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2134241	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2443458	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.24	45	279043	97.15401	ppb	100

Quantitation Report

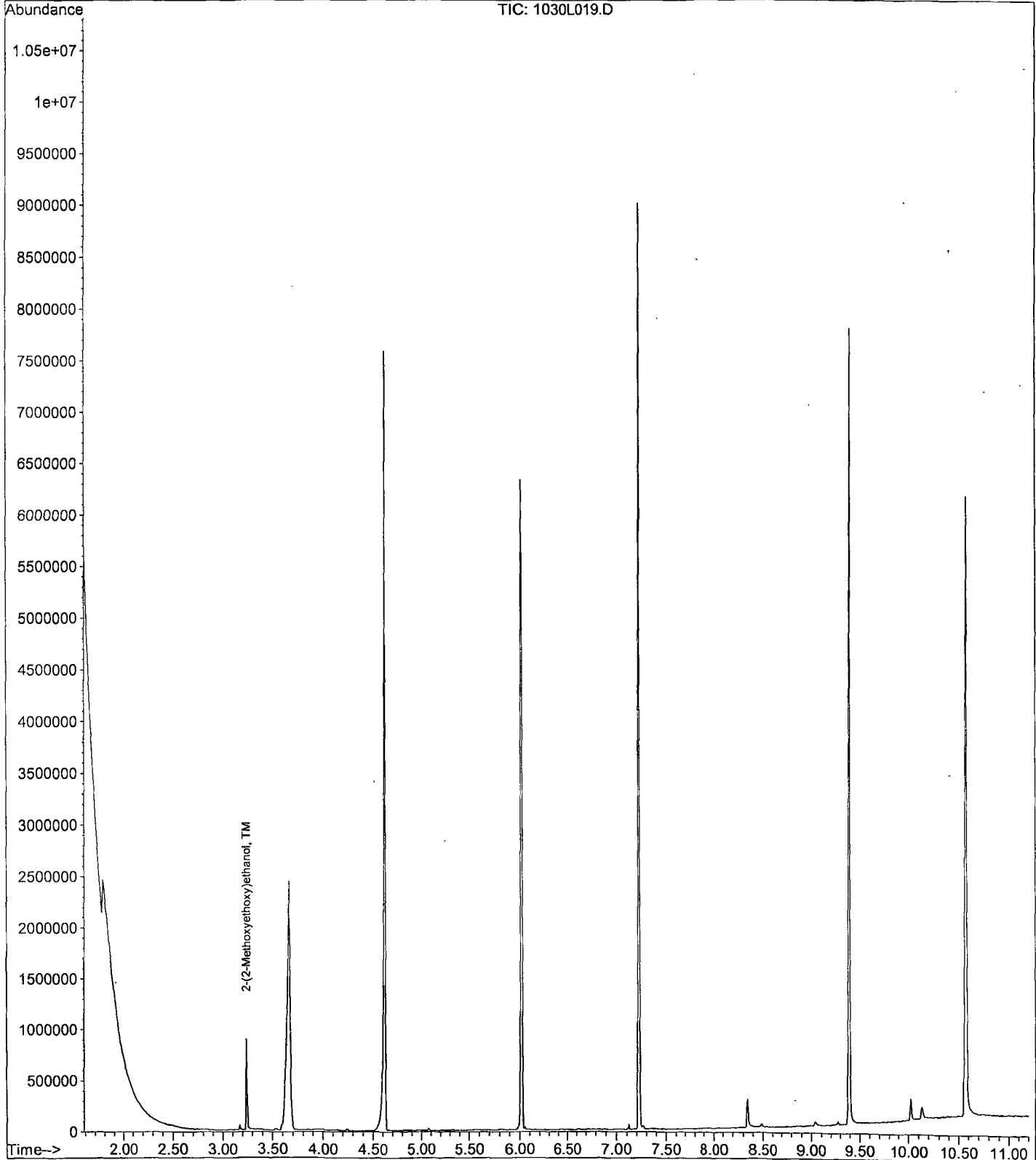
Data File : M:\LINUS\DATA\L191030M\1030L019.D
Acq On : 1 Nov 19 18:07
Sample : 191028A LCSD-1 2/500
Misc :

Vial: 19
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 2 12:54 2019

Quant Results File: YMEE1030.RES

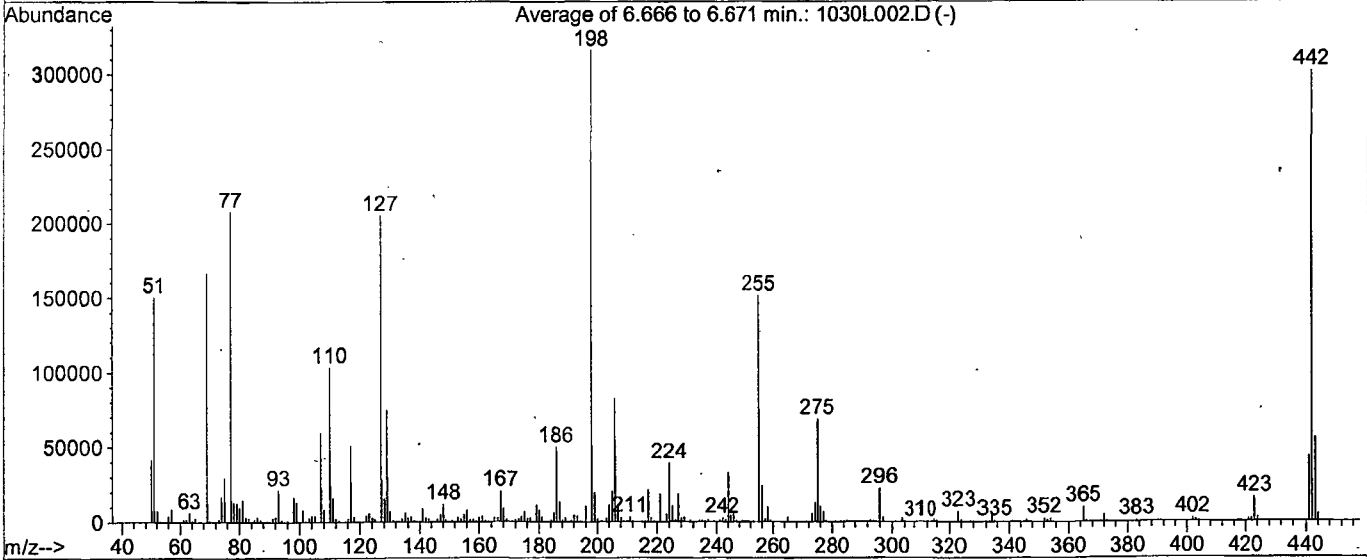
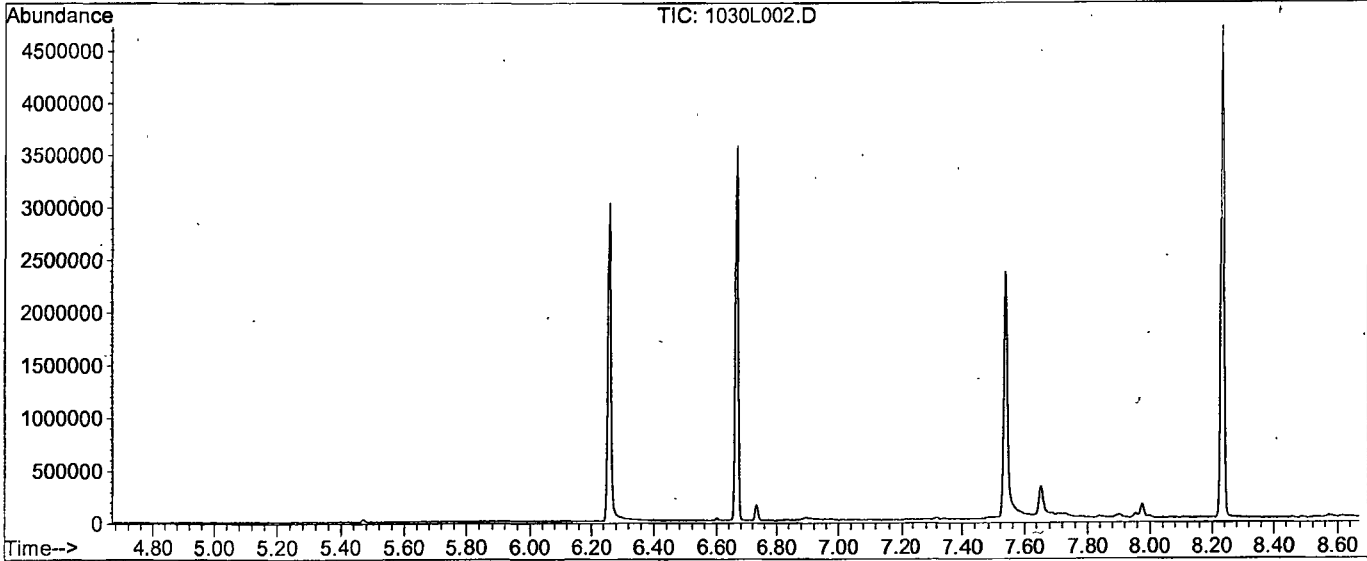
Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L002.D
 Acq On : 31 Oct 19 9:39
 Sample : SV Tune 10/01/19
 Misc :

Vial: 86
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.5	150243	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	922	PASS
127	198	10	80	64.9	205418	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	316523	PASS
199	198	5	9	6.2	19776	PASS
275	198	10	60	21.7	68701	PASS
365	198	1	100	3.2	9986	PASS
441	442	0.01	24	14.5	43648	PASS
442	198	50	500	95.4	301909	PASS
443	442	15	24	18.6	56149	PASS

Data File Name: 1030L002.D
Data File Path: M:\LINUS\DATA\191030M\
Operator: MA
Date Acquired: 31 Oct 2019 09:39
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 86
Instrument Name: Linus

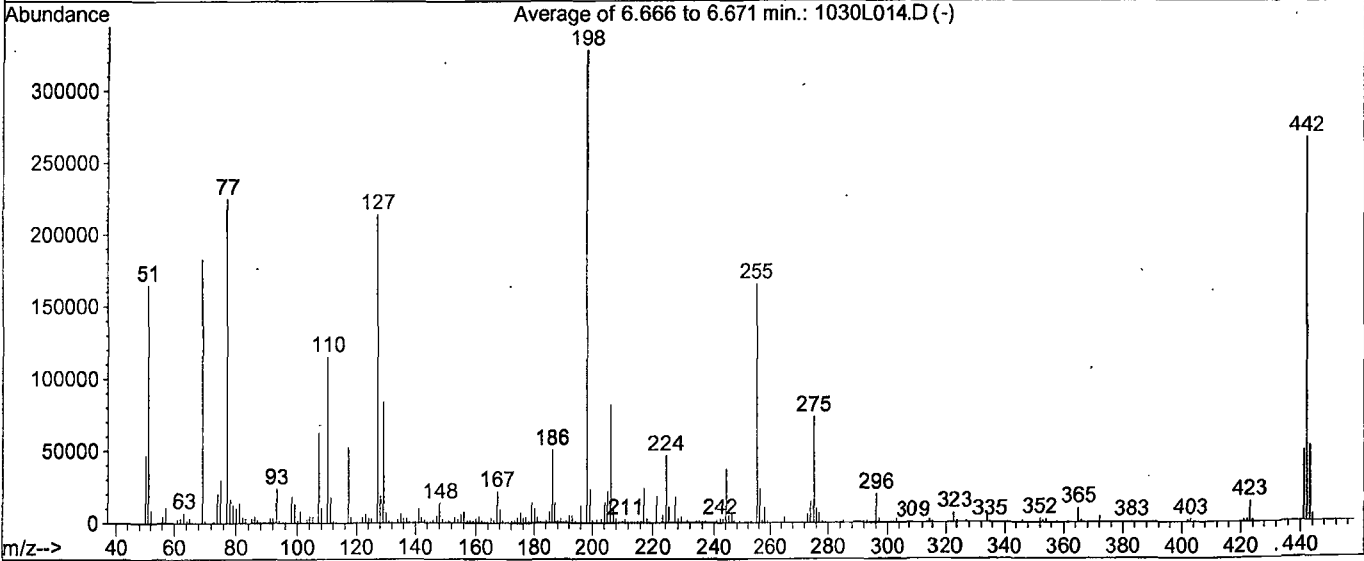
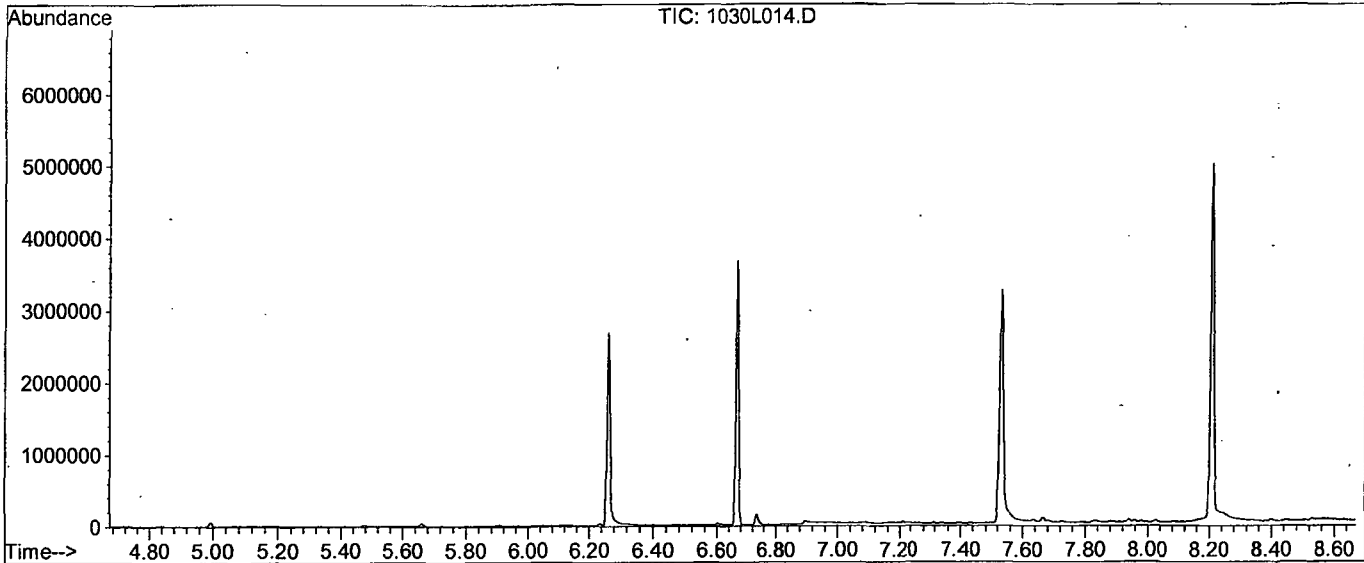
#	Name	Ret Time	Target Response
1)	DDT	8.21	32088400
2)	DDD	7.98	1040940
3)	DDE	8.00	701952

Breakdown 5.15

Data File : M:\LINUS\DATA\L191030M\1030L014.D
 Acq On : 1 Nov 19 15:17
 Sample : SV Tune 10/01/19
 Misc :

Vial: 14
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1630

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.2	164951	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	1364	PASS
127	198	10	80	65.2	214229	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	328597	PASS
199	198	5	9	7.0	22899	PASS
275	198	10	60	22.3	73325	PASS
365	198	1	100	3.1	10112	PASS
441	442	0.01	24	18.5	49301	PASS
442	198	50	500	81.1	266539	PASS
443	442	15	24	19.7	52437	PASS

Data File Name: 1030L014.D
Data File Path: M:\LINUS\DATA\191030M\
Operator: MA
Date Acquired: 1 Nov 19 15:17
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 14
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	38086400
2)	DDD	7.98	224750
3)	DDE	8.00	113996

Breakdown 0.88

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Diethylene glycol methyl ether	AccuStand ard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:		04/29/19 10:50			
Spiked ID 8		Ext. End Time:		04/29/19 16:40			
		GC Requires Extract By:		04/30/19 0:00			
		pH1		Water Bath Temp Criteria			
		pH2					
		pH3					

M STD AND SS PREPARATION
HA 5/1/19

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 190429A BIK				NA	NA	500	2	7	04/29/19 10:50	
2 190429A LCS-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
3 190429A LCSD-1		0.040	1	NA	NA	500	2	7	04/29/19 10:50	
4 AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5 AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6 AZ89958	AZ89958W24			NA	NA	500	2	7	04/29/19 10:50	88687
7 AZ89959	AZ89959W06			NA	NA	480	2	7	04/29/19 10:50	88687
8 AZ89961	AZ89961W22			NA	NA	510	2	7	04/29/19 10:50	88687
9 AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10 AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11 AZ90051	AZ90051W22			NA	NA	500	2	7	04/29/19 10:50	88701
12 AZ90052	AZ90052W05			NA	NA	505	2	7	04/29/19 10:50	88701
13 AZ90054	AZ90054W16			NA	NA	510	2	7	04/29/19 10:50	88701
14 AZ90056	AZ90056W16			NA	NA	510	2	7	04/29/19 10:50	88701
15 AZ90058	AZ90058W17			NA	NA	500	2	7	04/29/19 10:50	88701
16 AZ90060	AZ90060W17			NA	NA	505	2	7	04/29/19 10:50	88701

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Organic Extraction Worksheet











Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		YES		
Spiked ID 7			Ext. Start Time:		04/29/19 10:50		
Spiked ID 8			Ext. End Time:		04/29/19 16:40		
			GC Requires Extract By:		04/30/19 0:00		
			pH1		Water Bath Temp Criteria		
			pH2				
			pH3				

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100W17			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102W16			NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103W04			NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105W16			NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107W16			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109W17			NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213W15			NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215W16			NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD	1	1	NA	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS	0.097	2	NA	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: Page 528 of 1000

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200 uL	Methanol 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol 50uL Lot# 208858	1000 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Name of

Final

Standard 2MEE Second Source Stock

Prep'd By (Initials) JP

Prep Date 10/28/19

Exp Date 10/28/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	07/31/22	0.1022g	10 mL	MC #56258	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)

0.097ml were spiked in 500ml of water and extracted on 10/28/2019. Final concentration is 2000ug/L

Name of Final Standard MEE Second Source
 Prep Date 11/01/19
 Exp Date 11/01/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	10/28/19	10/28/20	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	10/28/19	10/28/20	4 uL	*	*	*

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10200ug/mL 10/28/19 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/28/19 16:10			
Spiked ID 8			Ext. End Time:	10/30/19 14:30			
			GC Requires Extract By:				
			pH1		Water Bath Temp 1 °C		
			pH2		Water Bath Temp 2 °C		
			pH3		Water Bath Temp 3 °C		

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191028A Blk				NA	NA	500	2	7Y	10/28/19 11:10	
						equip				
2 191028A LCS-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
						equip				
3 191028A LCSD-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
						equip				
4 BA01579 MS-1	BA01579W21	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
						equip				
5 BA01579 MSD-1	BA01579W18	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
						equip				
6 BA01579	BA01579W16			NA	NA	500	2	7Y	10/28/19 11:10	90524
						equip				
7 BA01580	BA01580W06			NA	NA	500	2	7Y	10/28/19 11:10	90524
						equip				
8 BA01582	BA01582W12			NA	NA	500	2	7Y	10/28/19 11:10	90524
						equip				
9 BA01651	BA01651W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
10 BA01652	BA01652W07			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
11 BA01654	BA01654W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
12 BA01656	BA01656W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
13 BA01658	BA01658W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
14 BA01660	BA01660W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
15 BA01662	BA01662W17			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				
16 BA01664	BA01664W18			NA	NA	500	2	7Y	10/28/19 11:10	90532
						equip				

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	10/31/19
Time	08:03
Refrigerator	Hobard

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By:

Page 532 of 1006 Date 11/6/19

Organic Extraction Worksheet








Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10200ug/mL 10/28/19 10/28/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:					
Spiked ID 7		Ext. Start Time:	10/28/19 16:10				
Spiked ID 8		Ext. End Time:	10/30/19 14:30				
		GC Requires Extract By:					
		pH1				Water Bath Temp 1 °C	
		pH2				Water Bath Temp 2 °C	
		pH3				Water Bath Temp 3 °C	

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA01775 	BA01775W07		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
18	BA01777 	BA01777W08		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
19	BA01779 	BA01779W08		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
20	BA01781 	BA01781W09		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
21	BA01782 	BA01782W07		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
22	BA01784 	BA01784W13		NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					
23	SS 	0.097	2	NA	NA	500	2	7Y	10/28/19 11:10	90551
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	10/31/19
Time	08:03
Refrigerator	Hobard

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By: Page 533 of 1006 Date 11/16/19
Ext_ID 64850

Injection Log

Directory: M:\LINUS\DATA\L191030M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
86	1030L002.D	1	SV Tune 10/01/19		31 Oct 19 9:39
4	1030L004.D	1	50 2MEE 4/30/19		31 Oct 19 11:50
5	1030L005.D	1	100 2MEE 4/30/19		31 Oct 19 12:10
6	1030L006.D	1	200 2MEE 4/30/19		31 Oct 19 12:29
8	1030L008.D	1	500 2MEE 4/30/19		31 Oct 19 13:07
9	1030L009.D	1	600 2MEE 4/30/19		31 Oct 19 13:25
10	1030L010.D	1	800 2MEE 4/30/19		31 Oct 19 13:43
11	1030L011.D	1	1000 2MEE 4/30/19		31 Oct 19 14:02
14	1030L014.D	1	SV Tune 10/01/19		1 Nov 19 15:17
15	1030L015.D	1	500 2MEE 4/30/19		1 Nov 19 16:15
16	1030L016.D	1	SS 2MEE 11/1/19		1 Nov 19 17:11
17	1030L017.D	1	191028A LCS-1 2/500		1 Nov 19 17:30
18	1030L018.D	1	191028A BLK 2/500		1 Nov 19 17:48
19	1030L019.D	1	191028A LCSD-1 2/500		1 Nov 19 18:07
33	1030L033.D	1	BA01775W07 2/500		1 Nov 19 22:20
34	1030L034.D	1	BA01777W08 2/500		1 Nov 19 22:38
35	1030L035.D	1	BA01779W08 2/500		1 Nov 19 22:56
36	1030L036.D	1	BA01781W09 2/500		1 Nov 19 23:13
37	1030L037.D	1	BA01782W07 2/500		1 Nov 19 23:31
38	1030L038.D	1	BA01784W13 2/500		1 Nov 19 23:49
39	1030L039.D	1	500 2MEE 4/30/19		2 Nov 19 00:07

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19 _____
Instrument: Loki _____

Initials: _____

1023L10 D 1023L11 D 1023L12 D 1023L13 D 1023L14 D 1023L15 D 1023L16 D 1023L17 D 1023L18 D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I	Fluorobenzene (IS)															
2	TM	Chlorotrifluoroethene												TM			
3	TML	Dichlorodifluoromethane	0.0880	0.0722	0.0621	0.0589	0.0578	0.0587	0.0535	0.0579		0.06	18	TML	0.999		
4	TML	Freon 114	0.2235	0.1320	0.1596	0.1211	0.1160	0.1136	0.1058	0.0986		0.13	30	TML	0.999		
5	TM**L	Chloromethane	0.3269	0.2689	0.2351	0.1900	0.1718	0.1659	0.1537	0.1613		0.21	30	TM**L	0.999		
6	TM*	Vinyl chloride	0.2111	0.1934	0.2183	0.1818	0.1816	0.1723	0.1607	0.1521		0.18	13	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane												TM			
8	TML	Bromomethane	0.4022	0.2674	0.2871	0.2214	0.2217					0.28	26	TML	0.998		
9	TML	Chloroethane	0.2226	0.1493	0.1668	0.1467	0.1441					0.17	20	TML	0.999		
10	TM	Dichlorofluoromethane	0.4146	0.4236	0.3744	0.3169	0.3288	0.3132	0.3060			0.35	14	TM			
11	TM	Trichlorofluoromethane	0.2175	0.2371	0.2201	0.2098	0.2136	0.2076	0.1807	0.2000		0.21	7.7	TM			
12	TM	Diethyl ether												TM			
13	TM	Acrolein	0.0193	0.0187	0.0186	0.0192	0.0179	0.0166	0.0182	0.0187		0.02	4.7	TM			
14	TML	Acetone				0.1568	0.0839	0.0610	0.0576	0.0518	0.0471	0.08	54	TML	0.998		
15	TM	Freon-113	0.2129	0.1684	0.1821	0.1567	0.1517	0.1496	0.1388			0.17	15	TM			
16	TM*L	1,1-DCE		0.2193	0.1697	0.2015	0.1373	0.1532	0.1409	0.1380	0.1293	0.16	21	TM*L	0.999		
17	TML	t-Butanol	0.0207	0.0169	0.0148	0.0147	0.0155	0.0159	0.0166			0.02	12	TML	0.994		
18	TM	2-Propanol												TM			
19	TM	Acetonitrile	0.0345	0.0305	0.0308	0.0281	0.0275	0.0265	0.0245	0.0227		0.03	13	TM			
20	TML	Methyl Acetate	0.1918	0.1630	0.1520	0.1677	0.1360	0.1291	0.1270			0.15	16	TML	0.999		
21	TML	Iodomethane	0.0633	0.0442	0.0565	0.0645	0.0943	0.1203	0.1410			0.08	43	TML	0.991		
22	TML	Acrylonitrile		0.1295	0.0962	0.0850	0.0765	0.0740	0.0691	0.0609		0.08	27	TML	0.997		
23	TML	Methylene chloride	0.3582	0.3060	0.2774	0.2024	0.1881	0.1817	0.1685	0.1564		0.23	32	TML	0.999		
24	TML	Carbon disulfide	0.5002	0.3730	0.4086	0.3087	0.3166					0.38	20	TML	0.993		
25	TM	Methyl t-butyl ether (MtBE)	0.4786	0.3967	0.3992	0.3604	0.3441	0.3351	0.3306	0.3154		0.37	14	TM			
26	TML	Trans-1,2-DCE	0.2484	0.2082	0.1954	0.1577	0.1742	0.1697	0.1591	0.1525		0.18	18	TML	0.999		
27	TM	Diisopropyl Ether	0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383		0.34	8.0	TM			
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane												TM**			
29	TM**	1,1-DCA	0.2844	0.2574	0.2790	0.2378	0.2571	0.2391	0.2994	0.2647		0.26	8.2	TM**			
30	TM	Vinyl Acetate	0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383		0.34	8.0	TM			
31	TM	Ethyl tert Butyl Ether	0.1493	0.1248	0.1340	0.1003	0.1124	0.1123	0.1133	0.1248		0.12	13	TM			
32	TML	MEK (2-Butanone)			0.0324	0.0165	0.0133	0.0143	0.0150	0.0162		0.02	40	TML	0.998		
33	TML	Cis-1,2-DCE	0.2289	0.1640	0.1557	0.1479	0.1420	0.1443	0.1410	0.1359		0.16	19	TML	1.000		
34	TM	2,2-Dichloropropane	0.1966	0.2302	0.2044	0.1848	0.1862	0.1877	0.1814	0.1715		0.19	9.3	TM			
35	TM	2-Methylpentane												TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Initial Cal. Date: 10/23/19 _____

Matrix: _____

Instrument: Loki _____

Initials: _____

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
36	TM	3-Methylpentane												TM		
37	TM*	Chloroform		0.3171	0.2945	0.3006	0.2845	0.2703	0.2696	0.2539	0.2381	0.28	9.3	TM*		
38	TM	Bromochloromethane		0.1089	0.1072	0.0954	0.0922	0.0913	0.0848	0.0866	0.0760	0.09	12	TM		
39	S	Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768	0.31	7.4	S		
40	TM	1,1,1-TCA		0.2466	0.2571	0.2752	0.2137	0.2437	0.2350	0.2253	0.2163	0.24	8.8	TM		
41	TML	Cyclohexane			0.1265	0.1151	0.0811	0.0861	0.0819	0.0824	0.0858	0.09	20	TML	1.000	
42	TM	1,1-Dichloropropene		0.1271	0.1720	0.1516	0.1311	0.1322	0.1431	0.1390	0.1460	0.14	10	TM		
43	TM	2,2,4-Trimethylpentane		0.2046	0.2496	0.2457	0.2105	0.2253	0.2404	0.2404	0.2627	0.23	8.5	TM		
44	S	1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961	0.33	8.5	S		
45	TM	Carbon Tetrachloride		0.1604	0.2305	0.2409	0.2229	0.2234	0.2174	0.2024	0.1959	0.21	12	TM		
46	TM	Tert Amyl Methyl Ether			0.0817	0.0931	0.0787	0.0756	0.0815	0.0866	0.1009	0.09	10	TM		
47	TM	Methylcyclopentane												TM		
48	TM	1,2-DCA		0.2398	0.2085	0.2239	0.1874	0.2036	0.1943	0.1905	0.1767	0.20	10	TM		
49	TM	Benzene		0.5930	0.5529	0.5115	0.4473	0.4716	0.4850	0.4808	0.4617	0.50	9.9	TM		
50	TM	TCE		0.1913	0.1728	0.1589	0.1509	0.1623	0.1483	0.1483	0.1448	0.16	9.9	TM		
51	TM	2-Pentanone		0.0512	0.0511	0.0510	0.0526	0.0503	0.0527	0.0539	0.0575	0.05	4.4	TM		
52	TM*	1,2-Dichloropropane		0.1278	0.1222	0.1579	0.1180	0.1225	0.1257	0.1254	0.1173	0.13	10	TM*		
53	TM	Bromodichloromethane		0.1995	0.2191	0.2118	0.1944	0.2044	0.1957	0.1945	0.1815	0.20	5.8	TM		
54	TM	Methyl Cyclohexane		0.1535	0.1267	0.1519	0.1057	0.1210	0.1196	0.1334	0.1436	0.13	13	TM		
55	TM	Dibromomethane		0.0929	0.1302	0.0969	0.1012	0.0922	0.0950	0.0948	0.0869	0.10	14	TM		
56	TML	2-Chloroethyl vinyl ether												TML	*	
57	TML	MIBK (methyl isobutyl ketone)		0.0827	0.0922	0.0644	0.0509	0.0607	0.0597	0.0691	0.0689	0.07	19	TML	0.995	
58	TM	1-Bromo-2-chloroethane		0.1531	0.1577	0.1587	0.1593	0.1618	0.1594	0.1599	0.1486	0.16	2.8	TM		
59	TM	Cis-1,3-Dichloropropene		0.1626	0.1909	0.1585	0.1541	0.1634	0.1537	0.1600	0.1615	0.16	7.2	TM		
60	TM*	Toluene		0.4777	0.4622	0.4420	0.4535	0.4757	0.5055	0.5113	0.5039	0.48	5.4	TM*		
61	TM	Trans-1,3-Dichloropropene		0.1247	0.1541	0.1332	0.1179	0.1424	0.1527	0.1562	0.1580	0.14	11	TM		
62	TM	1,1,2-TCA		0.1049	0.1057	0.0925	0.1049	0.1054	0.1082	0.1020	0.0943	0.10	5.6	TM		
63	TML	2-Hexanone			0.0449	0.0200	0.0243	0.0181	0.0289	0.0248	0.0273	0.03	33	TML	0.997	
64	I	Chlorobenzene-D5 (IS)														
65	S	Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617	0.91	9.0	S		
66	TM	1,2-EDB		0.1267	0.1287	0.1339	0.1202	0.1334	0.1289	0.1357	0.1265	0.13	3.9	TM		
67	TM	Tetrachloroethene		0.2557	0.1968	0.2027	0.1752	0.1783	0.1867	0.1773	0.1713	0.19	14	TM		
68	TM	1-Chlorohexane		0.1059	0.1087	0.1181	0.1046	0.1150	0.1196	0.1311	0.1410	0.12	11	TM		
69	TML	1,1,1,2-Tetrachloroethane		0.2391	0.2464	0.1817	0.1760	0.1779	0.1732	0.1720	0.1590	0.19	17	TML	0.999	
70	TML	m&p-Xylene		0.3600	0.2941	0.3461	0.3123	0.3629	0.4195	0.4559	0.4632	0.38	17	TML	1.000	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19
Instrument: Loki

Initials: _____

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
71	TM		0.1571	0.1849	0.1982	0.1739	0.1820	0.1967	0.2218	0.2292		0.19	12	TM		
72	TML		0.2167	0.2270	0.2610	0.2391	0.2723	0.3346	0.3866	0.3958		0.29	24	TML	0.999	
73	S	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S		
74	TM		0.2068	0.2345	0.2113	0.1823	0.1930	0.2014	0.2026	0.1844		0.20	8.3	TM		
75	TM		0.1931	0.2063	0.2141	0.1782	0.1874	0.1742	0.1861	0.1684		0.19	8.3	TM		
76	TM**		0.4937	0.4361	0.4383	0.3830	0.3901	0.3885	0.3924	0.3720		0.41	10.0	TM**		
77	TM*		0.4407	0.4204	0.4803	0.4285	0.4625	0.5274	0.5605	0.5622		0.49	12	TM*		
78	TM**		0.1323	0.1359	0.1491	0.1276	0.1372	0.1397	0.1446	0.1273		0.14	5.6	TM**		
79	I															
80	TM		0.5856	0.5289	0.5018	0.4318	0.4759	0.5078	0.5625	0.5703		0.52	10.0	TM		
81	TM**L		0.4746	0.4405	0.4427	0.3542	0.3524	0.2996	0.2969	0.2466		0.36	23	TM**L	0.994	
82	TML		0.1731	0.0943	0.1307	0.1188	0.1225	0.1007	0.1076			0.12	22	TML	0.997	
83	TM				0.0357	0.0337	0.0404	0.0363	0.0395	0.0354		0.04	7.0	TM		
84	TM		0.3492	0.4295	0.3882	0.3490	0.3438	0.3176	0.3322	0.3026		0.35	11	TM		
85	TML		0.7558	0.4687	0.9138	0.9209	0.9909	0.9770	1.108	1.093		0.90	23	TML	1.000	
86	TML		0.6774	0.6404	0.6417	0.6595	0.7976	0.8617	1.001	0.9857		0.78	19	TML	0.999	
87	TM		0.3654	0.4185	0.4066	0.3802	0.3612	0.4006	0.4365	0.4055		0.40	6.6	TM		
88	TML		0.6675	0.6950	0.6313	0.6132	0.7414	0.8323	0.9454	0.8934		0.75	17	TML	0.999	
89	TM		0.1313	0.1267	0.1551	0.1280	0.1576	0.1656	0.1728	0.1739		0.15	13	TM		
90	TM		0.5705	0.6573	0.6077	0.6181	0.6143	0.7336	0.7011	0.7264		0.65	9.3	TM		
91	TML		0.6123	0.6140	0.5889	0.5538	0.6582	0.7168	0.8549	0.8602		0.68	17	TML	0.999	
92	TM		0.8267	0.7982	0.8049	0.7524	0.8609	0.9128	1.038	1.045		0.88	13	TM		
93	TM		0.9336	0.8116	0.8559	0.7340	0.8567	0.8976	1.007	1.010		0.89	11	TM		
94	TM		0.2231	0.2759	0.2770	0.2077	0.2008	0.1988	0.1986	0.2301		0.23	15	TM		
95	TM		0.5885	0.5277	0.6171	0.5066	0.5870	0.5493	0.6076	0.5638		0.57	6.8	TM		
96	TM		0.7396	0.8267	0.7799	0.6052	0.6496	0.6051	0.6618	0.6213		0.69	12	TM		
97	TM		0.5281	0.5470	0.5277	0.4704	0.5476	0.5675	0.6752	0.7301		0.57	15	TM		
98	TM		0.7204	0.5796	0.6249	0.5247	0.5454	0.4927	0.5441	0.5382		0.57	13	TM		
99	TML		0.0744	0.1824	0.2215	0.1831	0.1807	0.1764	0.1662	0.1948		0.17	25	TML	0.997	
100	TML			0.0721	0.0466	0.0398	0.0441	0.0409	0.0432	0.0441		0.05	24	TML	1.000	
101	TMQ		0.1046	0.1759	0.1809	0.1581	0.1574	0.1822	0.2252	0.2945		0.18	30	TMQ	1.000	
102	TML		0.0720	0.0845	0.0886	0.0483	0.0440	0.0405	0.0485	0.0553		0.06	31	TML	0.995	
103	TMQ		0.2202	0.3782	0.2056	0.2022	0.2403	0.2494	0.3565	0.5141		0.30	37	TMQ	1.000	
104	TML			0.1412	0.1020	0.0878	0.0909	0.0894	0.1135	0.1350		0.11	20	TML	0.994	
105																

Data File : M:\LOKI\DATA\191023\1023L10.D
 Acq On : 23 Oct 19 19:30
 Sample : 0.3ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 6
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 7:41 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 08:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	199488	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	15394	5.6187	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	22.476%	
44) 1,2-DCA-D4(S)	4.95	65	17619	5.8432	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	23.372%	
65) Toluene-D8(S)	7.38	98	39179	5.2655	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	21.064%	
73) 4-Bromofluorobenzene(S)	10.28	95	12477	4.4654	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	17.860%	
Target Compounds						Qvalue
17) t-Butanol	2.42	59	1870	41.0927	ppb	# 80

Quantitation Report

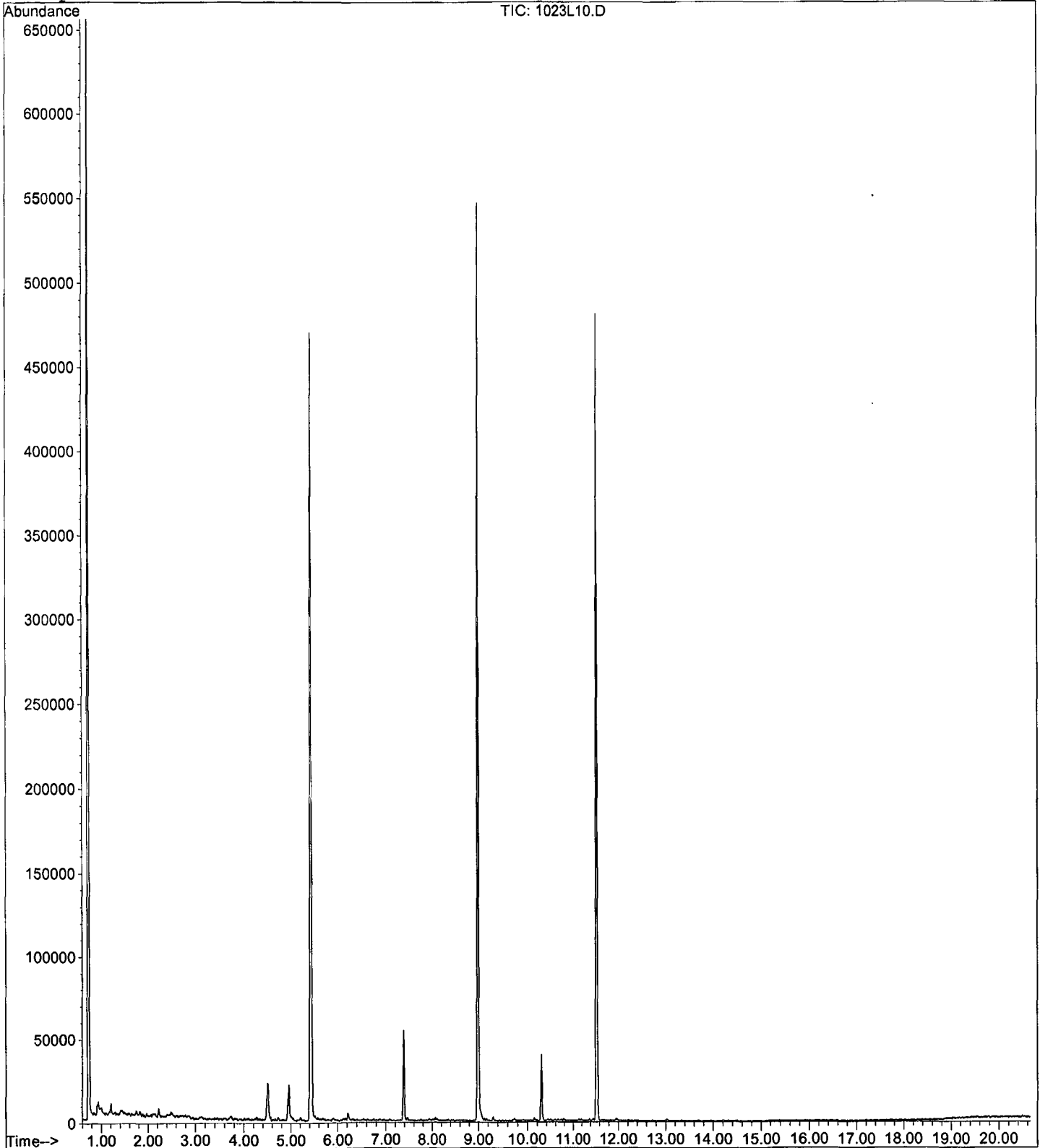
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 7:41 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211584	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Dibromofluoromethane(S)	4.50	111	15575	5.6217	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.488%	
44) 1,2-DCA-D4(S)	4.95	65	16291	5.4727	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.892%	
65) Toluene-D8(S)	7.38	98	37595	4.8832	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.532%	
73) 4-Bromofluorobenzene(S)	10.29	95	13224	4.8495	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.396%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	396	0.8267	ppb	# 49
4) Freon 114	0.91	85	1006	-0.3730	ppb	75
5) Chloromethane	0.94	50	1471	0.4476	ppb	# 87
6) Vinyl chloride	1.01	62	950	0.5739	ppb	# 78
8) Bromomethane	1.21	94	1810	0.5200	ppb	83
9) Chloroethane	1.28	64	1002	0.5593	ppb	96
10) Dichlorofluoromethane	1.41	67	1866	0.5857	ppb	86
11) Trichlorofluoromethane	1.45	103	979	0.5160	ppb	77
13) Acrolein	1.75	56	4338	26.1779	ppb	# 69
14) Acetone	1.88	43	2059	0.3949	ppb	# 87
15) Freon-113	1.83	101	958	0.6422	ppb	# 82
16) 1,1-DCE	1.82	96	987	-0.2621	ppb	# 68
17) t-Butanol	2.41	59	3809	27.3883	ppb	# 86
19) Acetonitrile	2.11	41	7685	30.3488	ppb	# 76
20) Methyl Acetate	2.17	43	1280	0.4625	ppb	# 47
21) Iodomethane	1.93	142	285	1.9340	ppb	# 42
22) Acrylonitrile	2.48	53	200	-2.2748	ppb	# 4
23) Methylene chloride	2.23	84	1612	-0.6710	ppb	99
24) Carbon disulfide	1.97	76	2251	0.4913	ppb	# 77
25) Methyl t-butyl ether (MtBE)	2.52	73	2154	0.6468	ppb	# 90
26) Trans-1,2-DCE	2.50	96	1118	-0.0973	ppb	# 85
27) Diisopropyl Ether	3.11	45	1581	0.5168	ppb	98
29) 1,1-DCA	2.95	63	1280	0.5369	ppb	# 76
30) Vinyl Acetate	3.11	45	1581	0.5168	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	672	0.6151	ppb	# 82
32) MEK (2-Butanone)	3.85	43	242	2.3682	ppb	# 40
33) Cis-1,2-DCE	3.73	96	1030	0.2595	ppb	# 72
34) 2,2-Dichloropropane	3.72	77	885	0.5098	ppb	# 76
37) Chloroform	4.27	83	1427	0.5691	ppb	88
38) Bromochloromethane	4.09	128	490	0.5866	ppb	# 65
40) 1,1,1-TCA	4.49	97	1110	0.5157	ppb	87
41) Cyclohexane	4.54	41	745	1.0595	ppb	# 29
42) 1,1-Dichloropropene	4.75	75	572	0.4451	ppb	# 79
43) 2,2,4-Trimethylpentane	5.20	57	921	0.4356	ppb	# 43
45) Carbon Tetrachloride	4.72	117	722	0.3788	ppb	95
46) Tert Amyl Methyl Ether	5.28	73	161	0.2093	ppb	# 59
48) 1,2-DCA	5.06	62	1079	0.5903	ppb	# 84
49) Benzene	5.02	78	2669	0.5925	ppb	# 87
50) TCE	5.90	130	861	0.5990	ppb	# 77

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

Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	11517	24.3646	ppb	94
52) 1,2-Dichloropropane	6.17	63	575	0.5027	ppb #	82
53) Bromodichloromethane	6.54	83	898	0.4985	ppb #	82
54) Methyl Cyclohexane	6.12	83	691	0.5819	ppb	88
55) Dibromomethane	6.30	93	418	0.4701	ppb #	36
57) MIBK (methyl isobutyl ket	7.32	43	372	0.5667	ppb #	79
58) 1-Bromo-2-chloroethane	6.87	63	689	0.4866	ppb	93
59) Cis-1,3-Dichloropropene	7.09	75	732	0.4986	ppb #	83
60) Toluene	7.46	91	2150	0.4987	ppb	80
61) Trans-1,3-Dichloropropene	7.74	75	561	0.4378	ppb #	71
62) 1,1,2-TCA	7.93	83	472	0.5129	ppb	97
63) 2-Hexanone	8.27	43	86	1.2587	ppb #	26
66) 1,2-EDB	8.46	107	536	0.4900	ppb #	64
67) Tetrachloroethene	8.07	166	1082	0.6624	ppb #	80
68) 1-Chlorohexane	9.06	91	448	0.4486	ppb #	73
69) 1,1,1,2-Tetrachloroethane	9.12	131	1012	-0.2107	ppb	98
70) m&p-Xylene	9.30	91	3047	2.9514	ppb	92
71) o-Xylene	9.72	106	665	0.4072	ppb	78
72) Styrene	9.75	104	917	1.8097	ppb #	73
74) 1,3-Dichloropropane	8.12	76	875	0.5117	ppb	91
75) Dibromochloromethane	8.36	129	817	0.5122	ppb	96
76) Chlorobenzene	9.01	112	2089	0.5995	ppb	94
77) Ethylbenzene	9.17	91	1865	0.4541	ppb	94
78) Bromoform	9.90	173	560	0.4840	ppb #	23
80) Isopropylbenzene	10.15	105	1008	0.5625	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	817	-1.8038	ppb #	89
82) 1,2,3-Trichloropropane	10.49	110	298	0.4367	ppb	90
84) Bromobenzene	10.43	156	601	0.4966	ppb	97
85) n-Propylbenzene	10.59	91	1301	1.0532	ppb	88
86) 4-Ethyltoluene	10.72	105	1166	1.4159	ppb #	80
87) 2-Chlorotoluene	10.66	91	629	0.4604	ppb	88
88) 1,3,5-Trimethylbenzene	10.80	105	1149	0.4436	ppb #	73
89) 4-Chlorotoluene	10.78	126	226	0.4337	ppb #	29
90) Tert-Butylbenzene	11.13	119	982	0.4364	ppb	87
91) 1,2,4-Trimethylbenzene	11.19	105	1054	1.6679	ppb	86
92) Sec-Butylbenzene	11.37	105	1423	0.4698	ppb	100
93) p-Isopropyltoluene	11.55	119	1607	0.5255	ppb #	78
94) Benzyl Chloride	11.71	91	384	0.4925	ppb #	61
95) 1,3-DCB	11.46	146	1013	0.5177	ppb #	82
96) 1,4-DCB	11.56	146	1273	0.5389	ppb	89
97) n-Butylbenzene	11.98	91	909	0.4599	ppb #	81
98) 1,2-DCB	11.95	146	1240	0.6305	ppb #	85
99) Hexachloroethane	12.23	201	128	1.0853	ppb #	89
101) 1,2,4-Trichlorobenzene	13.69	180	180	0.8111	ppb #	48
102) Hexachlorobutadiene	13.90	223	124	1.8356	ppb #	58
103) Naphthalene	13.95	128	379	1.0011	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	250	3.3075	ppb #	73

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

1023L11.D L1023W.M Tue Nov 19 11:00:03 2019

Quantitation Report

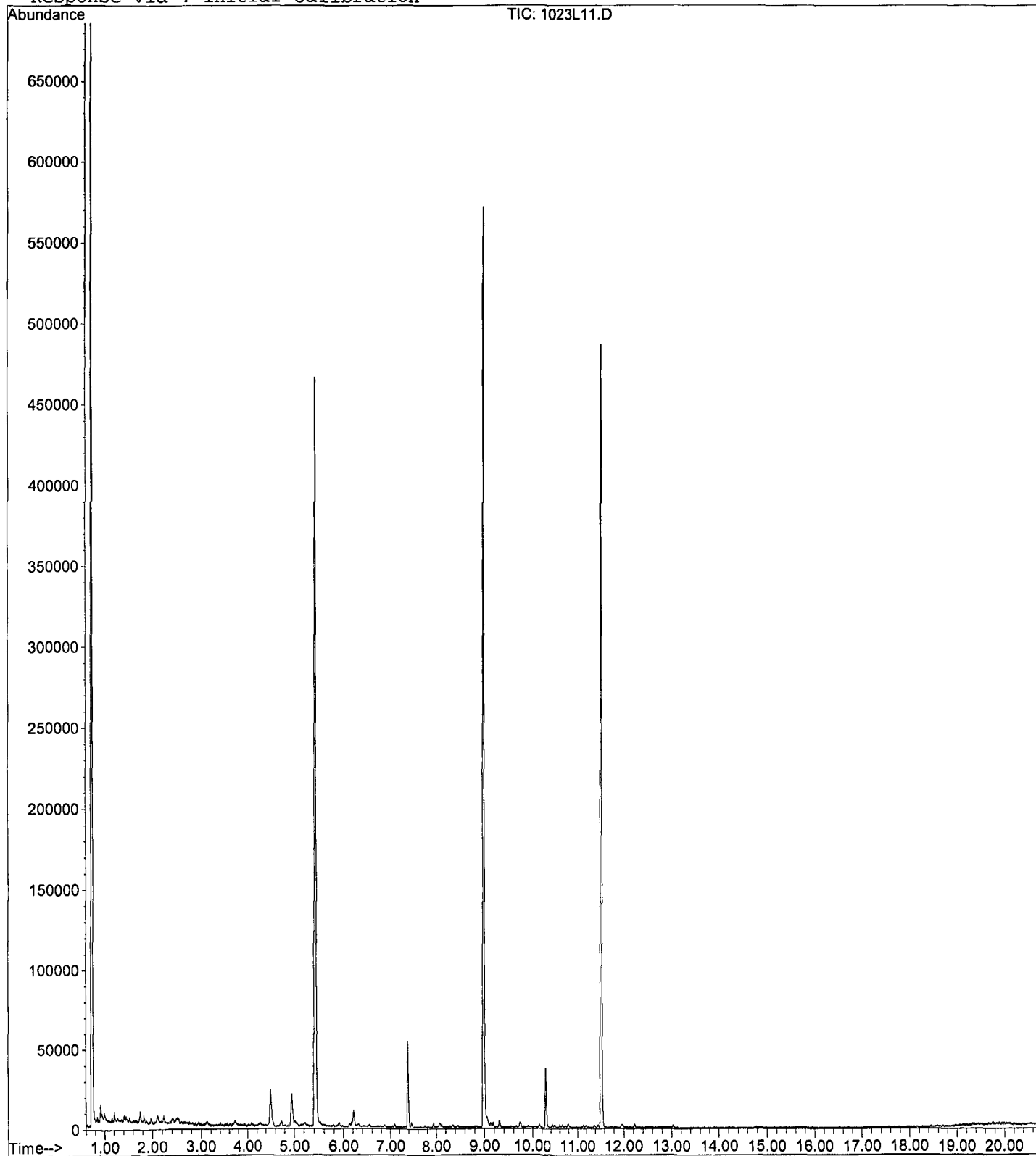
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	208192	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	27680	9.7932	ppb	0.00
Spiked Amount			Recovery	=	39.172%	
44) 1,2-DCA-D4(S)	4.95	65	28867	9.5055	ppb	0.00
Spiked Amount			Recovery	=	38.020%	
65) Toluene-D8(S)	7.38	98	64087	8.4599	ppb	0.00
Spiked Amount			Recovery	=	33.840%	
73) 4-Bromofluorobenzene(S)	10.28	95	21968	8.1873	ppb	0.00
Spiked Amount			Recovery	=	32.748%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	663	1.3184	ppb	78
4) Freon 114	0.91	85	1212	-0.1669	ppb	92
5) Chloromethane	0.94	50	2469	1.1097	ppb	93
6) Vinyl chloride	1.01	62	1776	1.0516	ppb	# 72
8) Bromomethane	1.21	94	2455	0.8335	ppb	# 73
9) Chloroethane	1.28	64	1371	0.8290	ppb	# 69
10) Dichlorofluoromethane	1.41	67	3890	1.1969	ppb	100
11) Trichlorofluoromethane	1.45	103	2177	1.1248	ppb	# 72
13) Acrolein	1.74	56	8606	50.9055	ppb	# 66
14) Acetone	1.88	43	2599	1.5947	ppb	97
15) Freon-113	1.84	101	1546	1.0159	ppb	# 85
16) 1,1-DCE	1.82	96	1558	0.2031	ppb	93
17) t-Butanol	2.41	59	6802	47.0527	ppb	# 85
19) Acetonitrile	2.10	41	13984	54.1310	ppb	86
20) Methyl Acetate	2.17	43	1497	0.6286	ppb	99
21) Iodomethane	1.92	142	406	2.0219	ppb	# 78
22) Acrylonitrile	2.48	53	1189	-0.4957	ppb	# 80
23) Methylene chloride	2.23	84	2810	0.1473	ppb	88
24) Carbon disulfide	1.97	76	3425	0.8938	ppb	# 93
25) Methyl t-butyl ether (MtBE)	2.53	73	3643	1.0722	ppb	# 86
26) Trans-1,2-DCE	2.49	96	1912	0.4551	ppb	# 57
27) Diisopropyl Ether	3.11	45	3261	1.0448	ppb	# 88
29) 1,1-DCA	2.95	63	2364	0.9719	ppb	# 84
30) Vinyl Acetate	3.11	45	3261	1.0448	ppb	# 88
31) Ethyl tert Butyl Ether	3.62	59	1146	1.0282	ppb	# 40
32) MEK (2-Butanone)	3.82	43	284	2.6188	ppb	# 50
33) Cis-1,2-DCE	3.73	96	1506	0.6247	ppb	# 79
34) 2,2-Dichloropropane	3.70	77	2114	1.1936	ppb	# 71
37) Chloroform	4.26	83	2704	1.0571	ppb	# 68
38) Bromochloromethane	4.11	128	984	1.1548	ppb	# 30
40) 1,1,1-TCA	4.49	97	2361	1.0753	ppb	82
41) Cyclohexane	4.56	41	1162	1.5723	ppb	# 51
42) 1,1-Dichloropropene	4.74	75	1579	1.2044	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	2292	1.0625	ppb	# 45
45) Carbon Tetrachloride	4.73	117	2117	1.0888	ppb	90
46) Tert Amyl Methyl Ether	5.28	73	750	0.9558	ppb	# 55
48) 1,2-DCA	5.06	62	1915	1.0269	ppb	# 69
49) Benzene	5.01	78	5077	1.1047	ppb	96
50) TCE	5.91	130	1587	1.0822	ppb	# 75

(#) = qualifier out of range (m) = manual integration
 1023L12.D L1023W.M Tue Nov 19 11:00:05 2019

Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	23440	48.6065	ppb	99
52) 1,2-Dichloropropane	6.17	63	1122	0.9615	ppb #	82
53) Bromodichloromethane	6.54	83	2012	1.0949	ppb #	73
54) Methyl Cyclohexane	6.13	83	1163	0.9600	ppb	82
55) Dibromomethane	6.30	93	1196	1.3186	ppb #	64
57) MIBK (methyl isobutyl ket	7.32	43	847	1.3273	ppb #	76
58) 1-Bromo-2-chloroethane	6.88	63	1448	1.0024	ppb #	59
59) Cis-1,3-Dichloropropene	7.09	75	1753	1.1705	ppb #	89
60) Toluene	7.45	91	4244	0.9649	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	1415	1.0824	ppb #	67
62) 1,1,2-TCA	7.94	83	971	1.0342	ppb #	78
63) 2-Hexanone	8.28	43	412	2.5503	ppb #	26
66) 1,2-EDB	8.45	107	1072	0.9960	ppb #	60
67) Tetrachloroethene	8.07	166	1639	1.0197	ppb	95
68) 1-Chlorohexane	9.06	91	905	0.9211	ppb #	66
69) 1,1,1,2-Tetrachloroethane	9.13	131	2052	0.5861	ppb #	64
70) m&p-Xylene	9.30	91	4899	3.4401	ppb #	81
71) o-Xylene	9.72	106	1540	0.9583	ppb	75
72) Styrene	9.74	104	1890	2.1061	ppb	92
74) 1,3-Dichloropropane	8.11	76	1953	1.1608	ppb #	80
75) Dibromochloromethane	8.35	129	1718	1.0947	ppb #	67
76) Chlorobenzene	9.02	112	3632	1.0593	ppb	97
77) Ethylbenzene	9.17	91	3501	0.8663	ppb	95
78) Bromoform	9.91	173	1132	0.9942	ppb	98
80) Isopropylbenzene	10.15	105	1783	1.0160	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	1485	-0.9784	ppb	91
82) 1,2,3-Trichloropropane	10.50	110	318	0.5102	ppb	98
84) Bromobenzene	10.43	156	1448	1.2219	ppb	92
85) n-Propylbenzene	10.78	91	1580	1.1355	ppb	96
86) 4-Ethyltoluene	10.72	105	2159	1.7185	ppb	93
87) 2-Chlorotoluene	10.66	91	1411	1.0547	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	2343	0.9237	ppb	84
89) 4-Chlorotoluene	10.77	126	427	0.8368	ppb	95
90) Tert-Butylbenzene	11.14	119	2216	1.0057	ppb #	87
91) 1,2,4-Trimethylbenzene	11.19	105	2070	2.0221	ppb	80
92) Sec-Butylbenzene	11.38	105	2691	0.9072	ppb	95
93) p-Isopropyltoluene	11.54	119	2736	0.9137	ppb #	85
94) Benzyl Chloride	11.72	91	930	1.2180	ppb #	64
95) 1,3-DCB	11.46	146	1779	0.9283	ppb #	93
96) 1,4-DCB	11.56	146	2787	1.2049	ppb	95
97) n-Butylbenzene	11.98	91	1844	0.9526	ppb	88
98) 1,2-DCB	11.95	146	1954	1.0146	ppb	91
99) Hexachloroethane	12.23	201	615	1.8386	ppb #	33
100) 1,2-Dibromo-3-chloropropan	12.79	75	243	1.8867	ppb #	1
101) 1,2,4-Trichlorobenzene	13.69	180	593	1.5130	ppb #	50
102) Hexachlorobutadiene	13.90	223	285	2.7215	ppb #	63
103) Naphthalene	13.94	128	1275	2.1035	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	476	3.8128	ppb #	51

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

1023L12.D L1023W.M Tue Nov 19 11:00:06 2019

Page 2

Quantitation Report

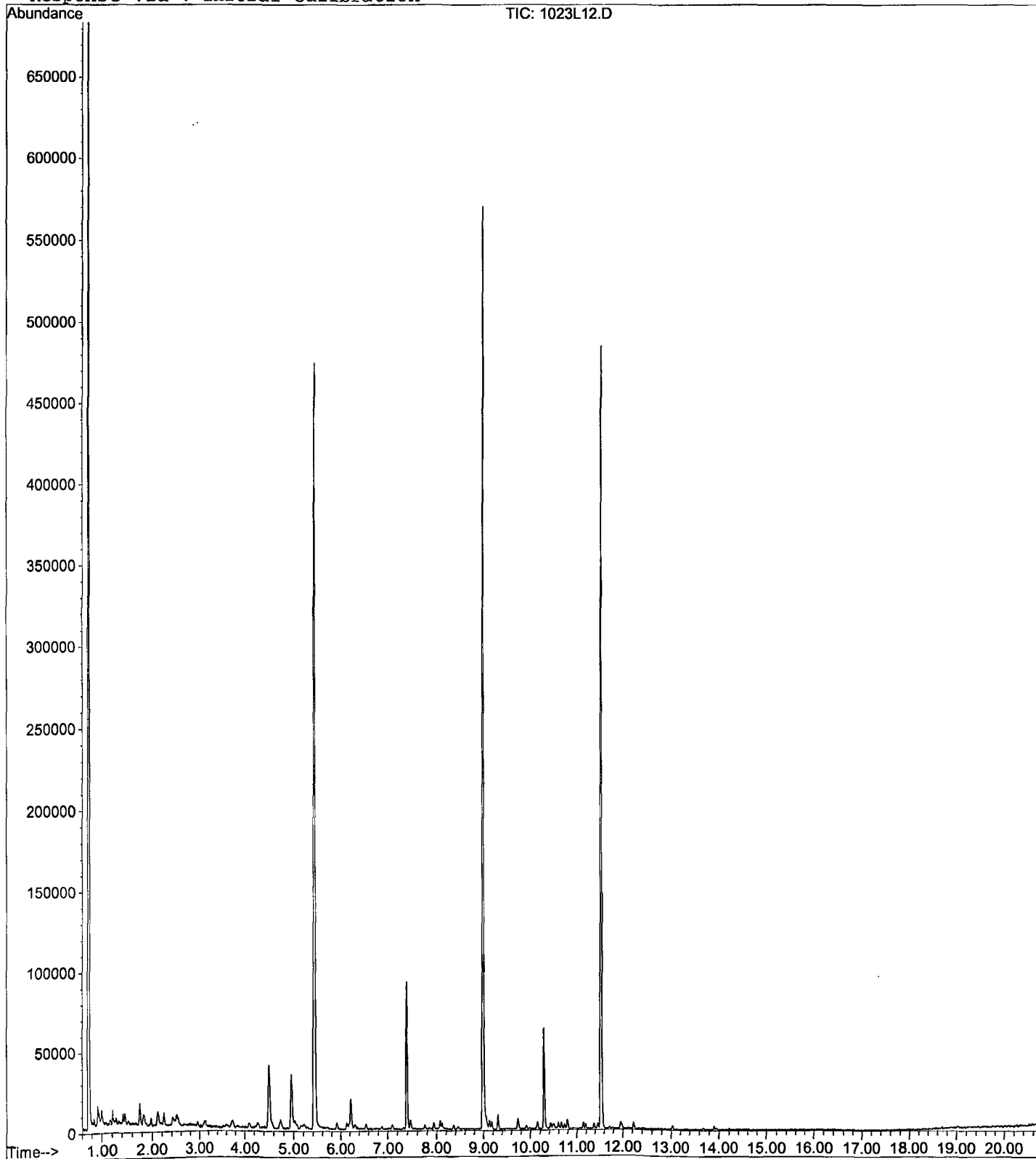
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	202496	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	25895	9.2938	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	37.176%	
44) 1,2-DCA-D4(S)	4.95	65	28773	9.6112	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	38.444%	
65) Toluene-D8(S)	7.38	98	64548	8.7605	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	35.040%	
73) 4-Bromofluorobenzene(S)	10.29	95	21984	8.4237	ppb	0.00
Spiked Amount				25.000		
			Recovery	=	33.696%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.84	87	1124	2.2244	ppb	99
4) Freon 114	0.91	85	2890	1.7422	ppb	98
5) Chloromethane	0.94	50	4257	2.3743	ppb	99
6) Vinyl chloride	1.01	62	3952	2.3739	ppb	89
8) Bromomethane	1.21	94	5197	2.2849	ppb	93
9) Chloroethane	1.27	64	3019	2.1367	ppb	94
10) Dichlorofluoromethane	1.41	67	6778	2.1156	ppb	93
11) Trichlorofluoromethane	1.45	103	3984	2.0880	ppb	99
13) Acrolein	1.75	56	12639	75.8394	ppb	# 75
14) Acetone	1.87	43	2838	2.2685	ppb	# 88
15) Freon-113	1.84	101	3297	2.1977	ppb	# 84
16) 1,1-DCE	1.82	96	3648	2.0120	ppb	88
17) t-Butanol	2.41	59	10011	69.6659	ppb	93
19) Acetonitrile	2.10	41	20885	82.0103	ppb	91
20) Methyl Acetate	2.17	43	2752	1.7543	ppb	96
21) Iodomethane	1.92	142	1022	2.5028	ppb	# 74
22) Acrylonitrile	2.47	53	1741	0.5468	ppb	# 63
23) Methylene chloride	2.23	84	5022	1.7513	ppb	93
24) Carbon disulfide	1.97	76	7398	2.3485	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.52	73	7227	2.1577	ppb	# 93
26) Trans-1,2-DCE	2.50	96	3538	1.6559	ppb	97
27) Diisopropyl Ether	3.11	45	7072	2.2986	ppb	92
29) 1,1-DCA	2.95	63	5051	2.1066	ppb	# 79
30) Vinyl Acetate	3.11	45	7072	2.2986	ppb	92
31) Ethyl tert Butyl Ether	3.62	59	2426	2.2080	ppb	97
32) MEK (2-Butanone)	3.81	43	586	4.7157	ppb	# 70
33) Cis-1,2-DCE	3.73	96	2819	1.7107	ppb	94
34) 2,2-Dichloropropane	3.71	77	3701	2.1198	ppb	# 83
37) Chloroform	4.26	83	5443	2.1585	ppb	# 74
38) Bromochloromethane	4.08	128	1727	2.0559	ppb	86
40) 1,1,1-TCA	4.49	97	4982	2.3016	ppb	90
41) Cyclohexane	4.55	41	2084	2.7870	ppb	94
42) 1,1-Dichloropropene	4.74	75	2745	2.1240	ppb	96
43) 2,2,4-Trimethylpentane	5.21	57	4449	2.0922	ppb	# 50
45) Carbon Tetrachloride	4.71	117	4362	2.2759	ppb	92
46) Tert Amyl Methyl Ether	5.27	73	1685	2.1782	ppb	# 65
48) 1,2-DCA	5.05	62	4054	2.2052	ppb	99
49) Benzene	5.01	78	9260	2.0440	ppb	93
50) TCE	5.90	130	2876	1.9895	ppb	95

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

Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	34625	72.8360	ppb	100
52) 1,2-Dichloropropane	6.17	63	2858	2.4845	ppb #	82
53) Bromodichloromethane	6.54	83	3834	2.1164	ppb #	94
54) Methyl Cyclohexane	6.13	83	2750	2.3027	ppb	91
55) Dibromomethane	6.30	93	1755	1.9628	ppb	95
57) MIBK (methyl isobutyl ket	7.32	43	1166	1.8738	ppb #	69
58) 1-Bromo-2-chloroethane	6.87	63	2874	2.0183	ppb	84
59) Cis-1,3-Dichloropropene	7.09	75	2869	1.9433	ppb	86
60) Toluene	7.45	91	8003	1.8458	ppb	92
61) Trans-1,3-Dichloropropene	7.75	75	2411	1.8708	ppb	98
62) 1,1,2-TCA	7.94	83	1675	1.8098	ppb #	73
63) 2-Hexanone	8.28	43	362	2.3720	ppb #	58
66) 1,2-EDB	8.44	107	2169	2.0719	ppb #	81
67) Tetrachloroethene	8.07	166	3284	2.1007	ppb #	79
68) 1-Chlorohexane	9.06	91	1913	2.0017	ppb #	85
69) 1,1,1,2-Tetrachloroethane	9.12	131	2943	1.3208	ppb	85
70) m&p-Xylene	9.30	91	11212	5.1441	ppb	97
71) o-Xylene	9.72	106	3210	2.0537	ppb	60
72) Styrene	9.74	104	4228	2.8433	ppb	91
74) 1,3-Dichloropropane	8.11	76	3423	2.0917	ppb	83
75) Dibromochloromethane	8.35	129	3468	2.2719	ppb	98
76) Chlorobenzene	9.01	112	7100	2.1289	ppb	88
77) Ethylbenzene	9.17	91	7781	1.9794	ppb	100
78) Bromoform	9.91	173	2415	2.1808	ppb	80
80) Isopropylbenzene	10.14	105	3631	1.9279	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	3203	0.8287	ppb #	90
82) 1,2,3-Trichloropropane	10.51	110	946	2.0917	ppb #	74
83) t-1,4-Dichloro-2-Butene	10.53	53	258	1.9367	ppb #	17
84) Bromobenzene	10.43	156	2809	2.2088	ppb	86
85) n-Propylbenzene	10.59	91	6612	2.3689	ppb	97
86) 4-Ethyltoluene	10.72	105	4643	2.3633	ppb	89
87) 2-Chlorotoluene	10.65	91	2942	2.0492	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	4568	1.6780	ppb	88
89) 4-Chlorotoluene	10.77	126	1122	2.0489	ppb #	64
90) Tert-Butylbenzene	11.14	119	4397	1.8594	ppb #	92
91) 1,2,4-Trimethylbenzene	11.19	105	4261	2.6707	ppb	94
92) Sec-Butylbenzene	11.38	105	5824	1.8295	ppb	96
93) p-Isopropyltoluene	11.54	119	6193	1.9272	ppb	94
94) Benzyl Chloride	11.71	91	2004	2.4456	ppb #	84
95) 1,3-DCB	11.46	146	4465	2.1711	ppb	98
96) 1,4-DCB	11.56	146	5643	2.2732	ppb	89
97) n-Butylbenzene	11.98	91	3818	1.8379	ppb	92
98) 1,2-DCB	11.95	146	4522	2.1879	ppb #	85
99) Hexachloroethane	12.23	201	1603	3.1903	ppb	85
100) 1,2-Dibromo-3-chloropropan	12.79	75	337	2.3651	ppb #	66
101) 1,2,4-Trichlorobenzene	13.69	180	1309	2.5559	ppb #	63
102) Hexachlorobutadiene	13.89	223	641	4.4131	ppb #	1
103) Naphthalene	13.94	128	1488	2.2376	ppb #	63
104) 1,2,3-Trichlorobenzene	14.20	182	738	4.2755	ppb #	88

(#) = qualifier out of range (m) = manual integration
 1023L13.D L1023W.M Tue Nov 19 11:00:09 2019

Quantitation Report

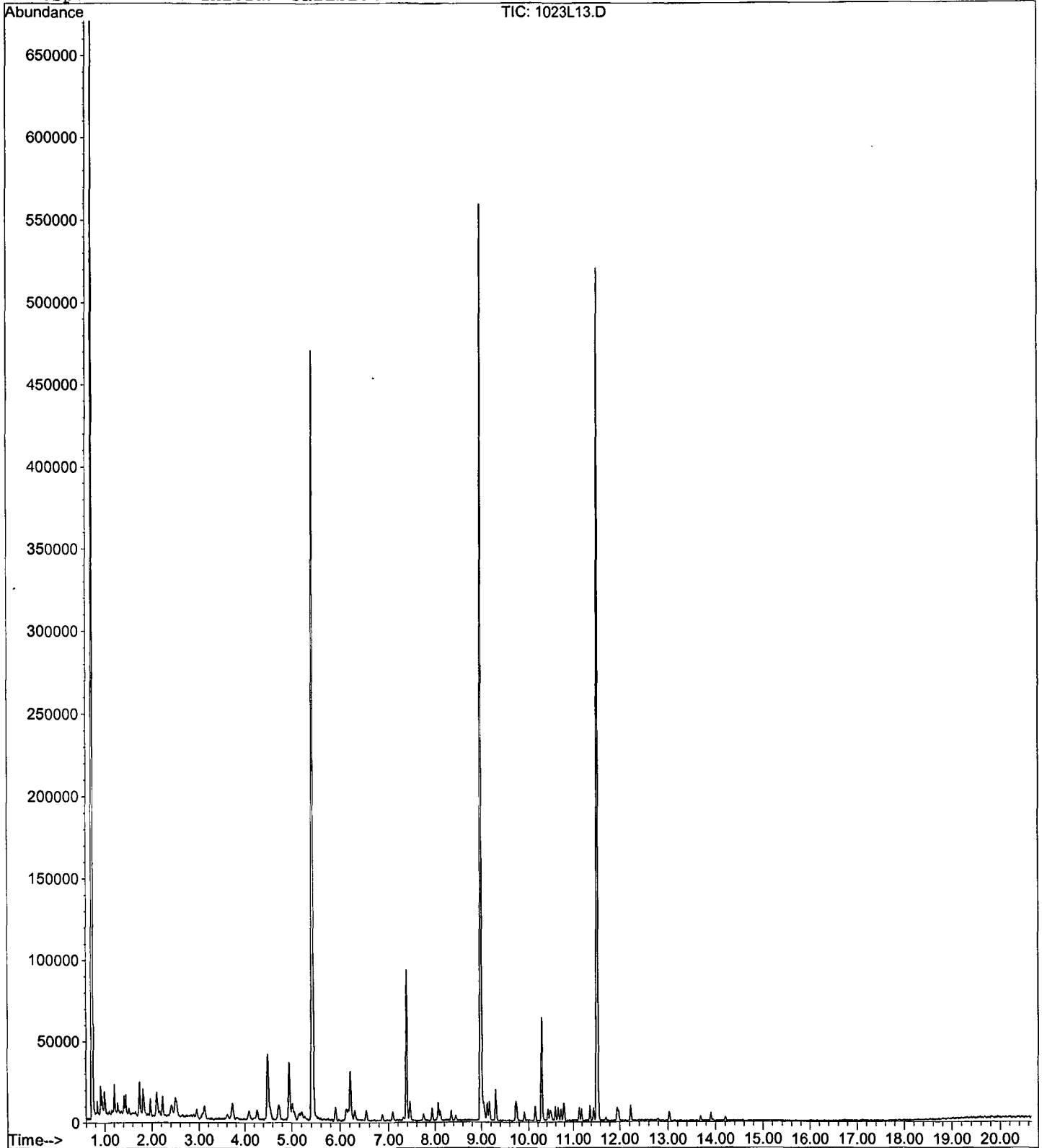
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	215872	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73331	25.5668	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.268%	
44) 1,2-DCA-D4(S)	4.95	65	77274	25.0747	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.300%	
65) Toluene-D8(S)	7.38	98	196494	25.0158	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.064%	
73) 4-Bromofluorobenzene(S)	10.29	95	66904	24.0474	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.188%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	2745	5.1954	ppb	79
4) Freon 114	0.91	85	5643	4.6608	ppb	99
5) Chloromethane	0.94	50	8851	5.3855	ppb	98
6) Vinyl chloride	1.01	62	8471	4.9429	ppb	95
8) Bromomethane	1.21	94	10315	4.8059	ppb	86
9) Chloroethane	1.28	64	6835	4.9763	ppb	95
10) Dichlorofluoromethane	1.41	67	14766	4.4771	ppb	97
11) Trichlorofluoromethane	1.45	103	9773	4.9758	ppb	82
13) Acrolein	1.75	56	17869	104.1582	ppb	# 82
14) Acetone	1.88	43	3908	4.6086	ppb	100
15) Freon-113	1.84	101	7299	4.7262	ppb	88
16) 1,1-DCE	1.82	96	6399	4.2114	ppb	93
17) t-Butanol	2.44	59	14447	97.1875	ppb	96
19) Acetonitrile	2.11	41	26178	99.8576	ppb	96
20) Methyl Acetate	2.17	43	7813	6.0209	ppb	95
21) Iodomethane	1.92	142	3005	3.9702	ppb	91
22) Acrylonitrile	2.47	53	3958	4.4018	ppb	93
23) Methylene chloride	2.23	84	9429	4.6983	ppb	87
24) Carbon disulfide	1.97	76	14384	4.7268	ppb	94
25) Methyl t-butyl ether (MtBE)	2.53	73	16791	4.8699	ppb	96
26) Trans-1,2-DCE	2.50	96	7349	4.2715	ppb	96
27) Diisopropyl Ether	3.12	45	14431	4.5565	ppb	# 89
29) 1,1-DCA	2.95	63	11078	4.4883	ppb	94
30) Vinyl Acetate	3.12	45	14431	4.5565	ppb	# 89
31) Ethyl tert Butyl Ether	3.62	59	4671	4.1297	ppb	# 87
32) MEK (2-Butanone)	3.85	43	769	5.8190	ppb	# 72
33) Cis-1,2-DCE	3.73	96	6892	4.8652	ppb	88
34) 2,2-Dichloropropane	3.71	77	8610	4.7906	ppb	# 90
37) Chloroform	4.27	83	13255	5.1064	ppb	90
38) Bromochloromethane	4.09	128	4298	4.9705	ppb	75
40) 1,1,1-TCA	4.48	97	9955	4.4677	ppb	90
41) Cyclohexane	4.54	41	3780	4.8423	ppb	96
42) 1,1-Dichloropropene	4.74	75	6110	4.5926	ppb	89
43) 2,2,4-Trimethylpentane	5.20	57	9807	4.4802	ppb	87
45) Carbon Tetrachloride	4.72	117	10385	5.2635	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	3669	4.6075	ppb	# 84
48) 1,2-DCA	5.06	62	8733	4.6147	ppb	100
49) Benzene	5.01	78	20840	4.4686	ppb	95
50) TCE	5.90	130	7030	4.7241	ppb	# 93

(#) = qualifier out of range (m) = manual integration
 1023L14.D L1023W.M Tue Nov 19 11:00:11 2019

Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	48974	100.0766	ppb	97
52) 1,2-Dichloropropane	6.17	63	5496	4.6412	ppb #	92
53) Bromodichloromethane	6.54	83	9059	4.8579	ppb	91
54) Methyl Cyclohexane	6.12	83	4926	4.0069	ppb	91
55) Dibromomethane	6.30	93	4716	5.1236	ppb #	72
57) MIBK (methyl isobutyl ket	7.32	43	2371	3.7509	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	7422	5.0632	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	7182	4.7257	ppb	99
60) Toluene	7.45	91	21128	4.7336	ppb	91
61) Trans-1,3-Dichloropropene	7.75	75	5492	4.1398	ppb	99
62) 1,1,2-TCA	7.94	83	4889	5.1316	ppb	92
63) 2-Hexanone	8.27	43	1130	5.3449	ppb #	82
66) 1,2-EDB	8.45	107	5191	4.6514	ppb #	76
67) Tetrachloroethene	8.07	166	7564	4.5387	ppb	94
68) 1-Chlorohexane	9.05	91	4515	4.4317	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.12	131	7598	4.5664	ppb	98
70) m&p-Xylene	9.31	91	26965	8.8661	ppb	98
71) o-Xylene	9.72	106	7509	4.5065	ppb	72
72) Styrene	9.75	104	10324	4.5266	ppb	94
74) 1,3-Dichloropropane	8.11	76	7871	4.5118	ppb	96
75) Dibromochloromethane	8.36	129	7692	4.7267	ppb	84
76) Chlorobenzene	9.02	112	16534	4.6505	ppb	93
77) Ethylbenzene	9.17	91	18501	4.4148	ppb	93
78) Bromoform	9.91	173	5510	4.6673	ppb	92
80) Isopropylbenzene	10.15	105	8921	4.1468	ppb	91
81) 1,1,2,2-Tetrachloroethane	10.47	83	7318	4.4261	ppb	92
82) 1,2,3-Trichloropropane	10.50	110	2455	5.2388	ppb	80
83) t-1,4-Dichloro-2-Butene	10.54	53	697	4.5806	ppb	85
84) Bromobenzene	10.43	156	7212	4.9648	ppb	89
85) n-Propylbenzene	10.59	91	19028	4.8893	ppb	96
86) 4-Ethyltoluene	10.72	105	13627	4.3833	ppb	97
87) 2-Chlorotoluene	10.65	91	7856	4.7906	ppb	80
88) 1,3,5-Trimethylbenzene	10.79	105	12671	4.0750	ppb	97
89) 4-Chlorotoluene	10.78	126	2644	4.2271	ppb	76
90) Tert-Butylbenzene	11.13	119	12772	4.7285	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	11442	4.5012	ppb	98
92) Sec-Butylbenzene	11.38	105	15546	4.2754	ppb	99
93) p-Isopropyltoluene	11.54	119	15167	4.1320	ppb	94
94) Benzyl Chloride	11.71	91	4291	4.5845	ppb #	87
95) 1,3-DCB	11.46	146	10467	4.4558	ppb	90
96) 1,4-DCB	11.55	146	12505	4.4102	ppb	94
97) n-Butylbenzene	11.98	91	9719	4.0960	ppb	90
98) 1,2-DCB	11.95	146	10842	4.5926	ppb	96
99) Hexachloroethane	12.23	201	3784	5.6412	ppb #	86
100) 1,2-Dibromo-3-chloropropan	12.79	75	823	4.7727	ppb #	75
101) 1,2,4-Trichlorobenzene	13.69	180	3266	4.9053	ppb	74
102) Hexachlorobutadiene	13.90	223	998	5.5877	ppb #	68
103) Naphthalene	13.94	128	4178	4.6013	ppb #	87
104) 1,2,3-Trichlorobenzene	14.20	182	1815	6.0088	ppb #	85

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

Quantitation Report

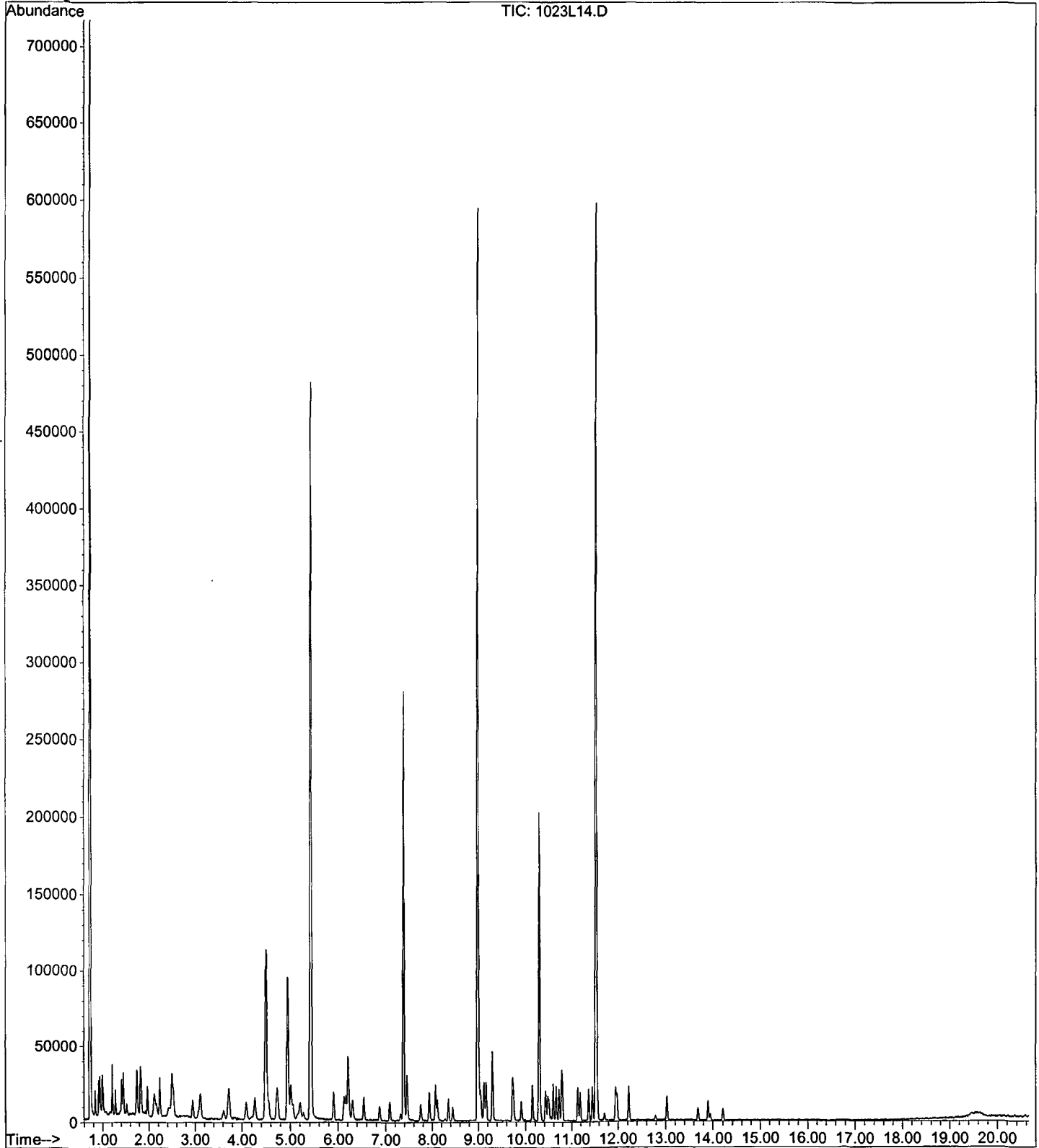
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	224832	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73614	24.5977	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.392%	
44) 1,2-DCA-D4 (S)	4.95	65	77647	24.1476	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.592%	
65) Toluene-D8 (S)	7.38	98	203676	24.8968	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.588%	
73) 4-Bromofluorobenzene(S)	10.29	95	73416	25.3364	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.344%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	5617	10.1316	ppb	100
4) Freon 114	0.91	85	11281	10.3152	ppb	100
5) Chloromethane	0.94	50	16704	10.2088	ppb	100
6) Vinyl chloride	1.01	62	17656	9.8739	ppb	100
8) Bromomethane	1.21	94	21551	10.0557	ppb	100
9) Chloroethane	1.27	64	14010	9.9986	ppb	100
10) Dichlorofluoromethane	1.41	67	31971	9.2905	ppb	100
11) Trichlorofluoromethane	1.45	103	20764	10.1319	ppb	100
13) Acrolein	1.74	56	21736	121.4281	ppb	100
14) Acetone	1.88	43	5930	8.8198	ppb	100
15) Freon-113	1.84	101	14752	9.1548	ppb	100
16) 1,1-DCE	1.82	96	14892	10.7618	ppb	100
17) t-Butanol	2.42	59	19301	124.1076	ppb	100
19) Acetonitrile	2.11	41	33427	122.2048	ppb	100
20) Methyl Acetate	2.17	43	13219	10.1812	ppb	100
21) Iodomethane	1.92	142	9167	8.3137	ppb	100
22) Acrylonitrile	2.47	53	7439	10.0471	ppb	100
23) Methylene chloride	2.23	84	18291	10.3035	ppb	100
24) Carbon disulfide	1.97	76	30784	10.0396	ppb	100
25) Methyl t-butyl ether (MtBE)	2.52	73	33454	9.2991	ppb	100
26) Trans-1,2-DCE	2.50	96	16940	10.5417	ppb	100
27) Diisopropyl Ether	3.12	45	30228	9.1472	ppb	100
29) 1,1-DCA	2.95	63	25001	9.7078	ppb	100
30) Vinyl Acetate	3.12	45	30228	9.1472	ppb	100
31) Ethyl tert Butyl Ether	3.61	59	10926	9.2581	ppb	100
32) MEK (2-Butanone)	3.82	43	1289	8.9232	ppb	100
33) Cis-1,2-DCE	3.73	96	13811	9.8811	ppb	100
34) 2,2-Dichloropropane	3.72	77	18108	9.6562	ppb	100
37) Chloroform	4.27	83	26278	9.7022	ppb	100
38) Bromochloromethane	4.09	128	8877	9.8388	ppb	100
40) 1,1,1-TCA	4.49	97	23699	10.1934	ppb	100
41) Cyclohexane	4.56	41	8372	10.1779	ppb	100
42) 1,1-Dichloropropene	4.74	75	12858	9.2627	ppb	100
43) 2,2,4-Trimethylpentane	5.20	57	21908	9.5919	ppb	100
45) Carbon Tetrachloride	4.72	117	21722	10.5516	ppb	100
46) Tert Amyl Methyl Ether	5.27	73	7355	8.8521	ppb	100
48) 1,2-DCA	5.05	62	19791	10.0228	ppb	100
49) Benzene	5.01	78	45851	9.4226	ppb	100
50) TCE	5.90	130	15785	10.1662	ppb	100

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

Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	61171	119.8006	ppb	100
52) 1,2-Dichloropropane	6.17	63	11911	9.6401	ppb	100
53) Bromodichloromethane	6.54	83	19876	10.2150	ppb	100
54) Methyl Cyclohexane	6.12	83	11767	9.1734	ppb	100
55) Dibromomethane	6.30	93	8969	9.3388	ppb	100
57) MIBK (methyl isobutyl ket	7.32	43	5900	9.0159	ppb	100
58) 1-Bromo-2-chloroethane	6.87	63	15727	10.2825	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	15887	10.0187	ppb	100
60) Toluene	7.46	91	46253	9.9316	ppb	100
61) Trans-1,3-Dichloropropene	7.75	75	13841	9.9991	ppb	100
62) 1,1,2-TCA	7.93	83	10245	10.3059	ppb	100
63) 2-Hexanone	8.28	43	1763	7.5417	ppb	100
66) 1,2-EDB	8.45	107	11995	10.3198	ppb	100
67) Tetrachloroethene	8.07	166	16035	9.2381	ppb	100
68) 1-Chlorohexane	9.06	91	10343	9.7475	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.13	131	16000	10.2157	ppb	100
70) m&p-Xylene	9.31	91	65270	17.7180	ppb	100
71) o-Xylene	9.73	106	16367	9.4311	ppb	100
72) Styrene	9.75	104	24492	8.3441	ppb	100
74) 1,3-Dichloropropane	8.11	76	17357	9.5529	ppb	100
75) Dibromochloromethane	8.35	129	16851	9.9423	ppb	100
76) Chlorobenzene	9.02	112	35079	9.4735	ppb	100
77) Ethylbenzene	9.17	91	41590	9.5290	ppb	100
78) Bromoform	9.91	173	12341	10.0370	ppb	100
80) Isopropylbenzene	10.15	105	21528	9.1420	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.47	83	15943	11.5501	ppb	100
82) 1,2,3-Trichloropropane	10.50	110	5543	11.2120	ppb	100
83) t-1,4-Dichloro-2-Butene	10.54	53	1827	10.9689	ppb	100
84) Bromobenzene	10.43	156	15551	9.7800	ppb	100
85) n-Propylbenzene	10.59	91	44823	9.7037	ppb	100
86) 4-Ethyltoluene	10.72	105	36081	9.0758	ppb	100
87) 2-Chlorotoluene	10.66	91	16339	9.1023	ppb	100
88) 1,3,5-Trimethylbenzene	10.80	105	33536	9.8529	ppb	100
89) 4-Chlorotoluene	10.78	126	7129	10.4123	ppb	100
90) Tert-Butylbenzene	11.14	119	27789	9.3987	ppb	100
91) 1,2,4-Trimethylbenzene	11.19	105	29772	8.8880	ppb	100
92) Sec-Butylbenzene	11.38	105	38945	9.7847	ppb	100
93) p-Isopropyltoluene	11.54	119	38751	9.6446	ppb	100
94) Benzyl Chloride	11.72	91	9084	8.8664	ppb	100
95) 1,3-DCB	11.46	146	26552	10.3262	ppb	100
96) 1,4-DCB	11.56	146	29385	9.4675	ppb	100
97) n-Butylbenzene	11.99	91	24773	9.5379	ppb	100
98) 1,2-DCB	11.95	146	24672	9.5475	ppb	100
99) Hexachloroethane	12.23	201	8173	10.2625	ppb	100
100) 1,2-Dibromo-3-chloropropan	12.79	75	1995	10.2661	ppb	100
101) 1,2,4-Trichlorobenzene	13.69	180	7118	9.0209	ppb	100
102) Hexachlorobutadiene	13.90	223	1991	9.2149	ppb	100
103) Naphthalene	13.95	128	10870	9.6697	ppb	100
104) 1,2,3-Trichlorobenzene	14.21	182	4112	9.4708	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023L15.D L1023W.M Tue Nov 19 11:00:14 2019

Quantitation Report

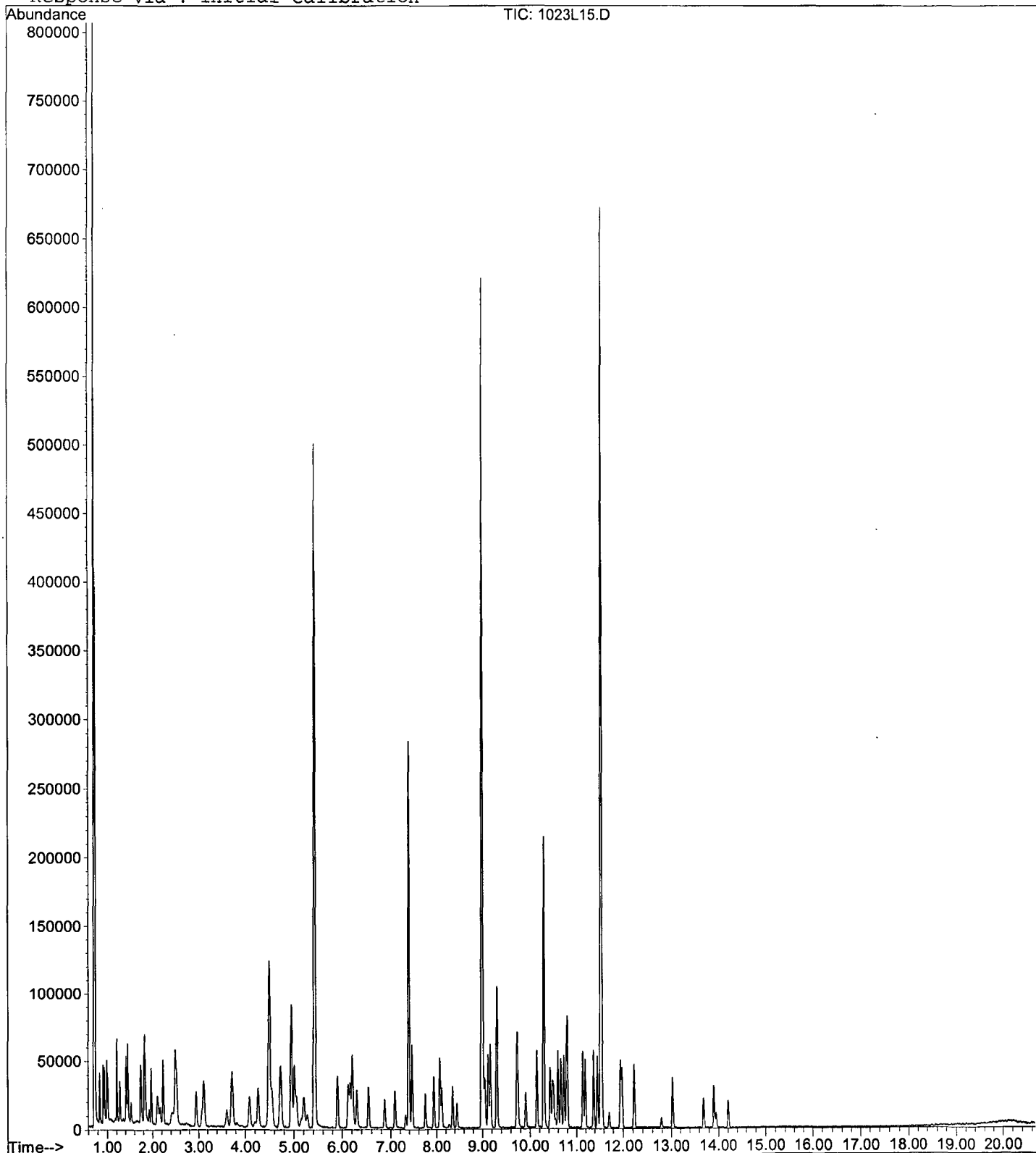
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	234944	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	152485	48.8553	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.420%	
44) 1,2-DCA-D4 (S)	4.95	65	165297	49.2906	ppb	0.00
Spiked Amount	25.000		Recovery	=	197.164%	
65) Toluene-D8 (S)	7.38	98	454363	53.1496	ppb	0.00
Spiked Amount	25.000		Recovery	=	212.600%	
73) 4-Bromofluorobenzene (S)	10.29	95	166667	55.0425	ppb	0.00
Spiked Amount	25.000		Recovery	=	220.168%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	11912	20.5402	ppb	80
4) Freon 114	0.91	85	23048	21.6579	ppb	98
5) Chloromethane	0.94	50	33644	20.2545	ppb	99
6) Vinyl chloride	1.01	62	34944	18.7378	ppb	92
8) Bromomethane	1.21	94	40662	18.5413	ppb	99
9) Chloroethane	1.28	64	28290	19.5753	ppb	98
10) Dichlorofluoromethane	1.41	67	63509	17.6958	ppb	94
11) Trichlorofluoromethane	1.45	103	42093	19.6942	ppb	92
13) Acrolein	1.75	56	25250	135.2543	ppb	88
14) Acetone	1.88	43	11684	20.8078	ppb	91
15) Freon-113	1.84	101	30336	18.0512	ppb	94
16) 1,1-DCE	1.82	96	28582	20.7397	ppb	92
17) t-Butanol	2.45	59	25200	155.0725	ppb	98
19) Acetonitrile	2.11	41	40237	141.0479	ppb	94
20) Methyl Acetate	2.17	43	26178	19.9373	ppb	91
21) Iodomethane	1.92	142	24387	18.5512	ppb	95
22) Acrylonitrile	2.47	53	15011	21.9106	ppb	# 79
23) Methylene chloride	2.23	84	36847	21.6030	ppb	100
24) Carbon disulfide	1.97	76	57128	18.1197	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	67952	18.1111	ppb	94
26) Trans-1,2-DCE	2.50	96	34415	21.4014	ppb	96
27) Diisopropyl Ether	3.12	45	64802	18.8025	ppb	91
29) 1,1-DCA	2.95	63	48492	18.0544	ppb	94
30) Vinyl Acetate	3.12	45	64802	18.8025	ppb	91
31) Ethyl tert Butyl Ether	3.61	59	22768	18.4984	ppb	97
32) MEK (2-Butanone)	3.82	43	2904	18.4630	ppb	90
33) Cis-1,2-DCE	3.73	96	29262	20.6760	ppb	94
34) 2,2-Dichloropropane	3.72	77	38070	19.4656	ppb	# 90
37) Chloroform	4.27	83	54671	19.3547	ppb	92
38) Bromochloromethane	4.09	128	17202	18.2812	ppb	# 69
40) 1,1,1-TCA	4.48	97	47649	19.6515	ppb	98
41) Cyclohexane	4.56	41	16617	19.2890	ppb	97
42) 1,1-Dichloropropene	4.73	75	29030	20.0522	ppb	94
43) 2,2,4-Trimethylpentane	5.20	57	48757	20.4687	ppb	88
45) Carbon Tetrachloride	4.72	117	44086	20.5338	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	16529	19.0749	ppb	# 75
48) 1,2-DCA	5.06	62	39402	19.1334	ppb	95
49) Benzene	5.01	78	98352	19.3802	ppb	98
50) TCE	5.90	130	30073	18.5713	ppb	88

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

Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	80112	150.4392	ppb	97
52) 1,2-Dichloropropane	6.17	63	25489	19.7804	ppb	96
53) Bromodichloromethane	6.54	83	39689	19.5583	ppb	99
54) Methyl Cyclohexane	6.13	83	24258	18.1330	ppb	99
55) Dibromomethane	6.30	93	19267	19.2358	ppb	79
57) MIBK (methyl isobutyl ket	7.32	43	12116	17.8021	ppb	98
58) 1-Bromo-2-chloroethane	6.87	63	32326	20.2655	ppb	97
59) Cis-1,3-Dichloropropene	7.09	75	31179	18.8531	ppb	98
60) Toluene	7.45	91	102526	21.1088	ppb	95
61) Trans-1,3-Dichloropropene	7.75	75	30964	21.4487	ppb	100
62) 1,1,2-TCA	7.94	83	21941	21.1633	ppb	97
63) 2-Hexanone	8.27	43	5861	22.0514	ppb	# 66
66) 1,2-EDB	8.44	107	24227	19.9464	ppb	# 81
67) Tetrachloroethene	8.07	166	35093	19.3477	ppb	95
68) 1-Chlorohexane	9.05	91	22487	20.2802	ppb	93
69) 1,1,1,2-Tetrachloroethane	9.12	131	32557	20.8037	ppb	92
70) m&p-Xylene	9.31	91	157688	38.1023	ppb	98
71) o-Xylene	9.73	106	36971	20.3867	ppb	95
72) Styrene	9.74	104	62888	18.2603	ppb	94
74) 1,3-Dichloropropane	8.11	76	37845	19.9326	ppb	99
75) Dibromochloromethane	8.35	129	32738	18.4844	ppb	83
76) Chlorobenzene	9.02	112	73014	18.8695	ppb	92
77) Ethylbenzene	9.17	91	99134	21.7357	ppb	91
78) Bromoform	9.91	173	26260	20.4382	ppb	88
80) Isopropylbenzene	10.15	105	53768	19.5096	ppb	98
81) 1,1,2,2-Tetrachloroethane	10.47	83	31720	21.5728	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	10660	18.6699	ppb	93
83) t-1,4-Dichloro-2-Butene	10.53	53	3846	19.7297	ppb	77
84) Bromobenzene	10.43	156	33632	18.0725	ppb	94
85) n-Propylbenzene	10.59	91	103441	18.4442	ppb	96
86) 4-Ethyltoluene	10.72	105	91242	18.3613	ppb	97
87) 2-Chlorotoluene	10.65	91	42412	20.1883	ppb	88
88) 1,3,5-Trimethylbenzene	10.79	105	88124	22.1223	ppb	99
89) 4-Chlorotoluene	10.78	126	17536	21.8844	ppb	96
90) Tert-Butylbenzene	11.14	119	77678	22.4481	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	75898	17.8102	ppb	95
92) Sec-Butylbenzene	11.37	105	96648	20.7480	ppb	100
93) p-Isopropyltoluene	11.54	119	95037	20.2106	ppb	98
94) Benzyl Chloride	11.71	91	21054	17.5585	ppb	95
95) 1,3-DCB	11.46	146	58162	19.3271	ppb	97
96) 1,4-DCB	11.56	146	64064	17.6364	ppb	97
97) n-Butylbenzene	11.98	91	60083	19.7657	ppb	98
98) 1,2-DCB	11.95	146	52173	17.2511	ppb	95
99) Hexachloroethane	12.23	201	18679	19.1902	ppb	92
100) 1,2-Dibromo-3-chloropropan	12.79	75	4332	18.8340	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	19289	18.9948	ppb	84
102) Hexachlorobutadiene	13.90	223	4287	15.9644	ppb	93
103) Naphthalene	13.94	128	26408	17.9502	ppb	94
104) 1,2,3-Trichlorobenzene	14.20	182	9469	15.9523	ppb	95

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

1023L16.D L1023W.M Tue Nov 19 11:00:17 2019

Quantitation Report

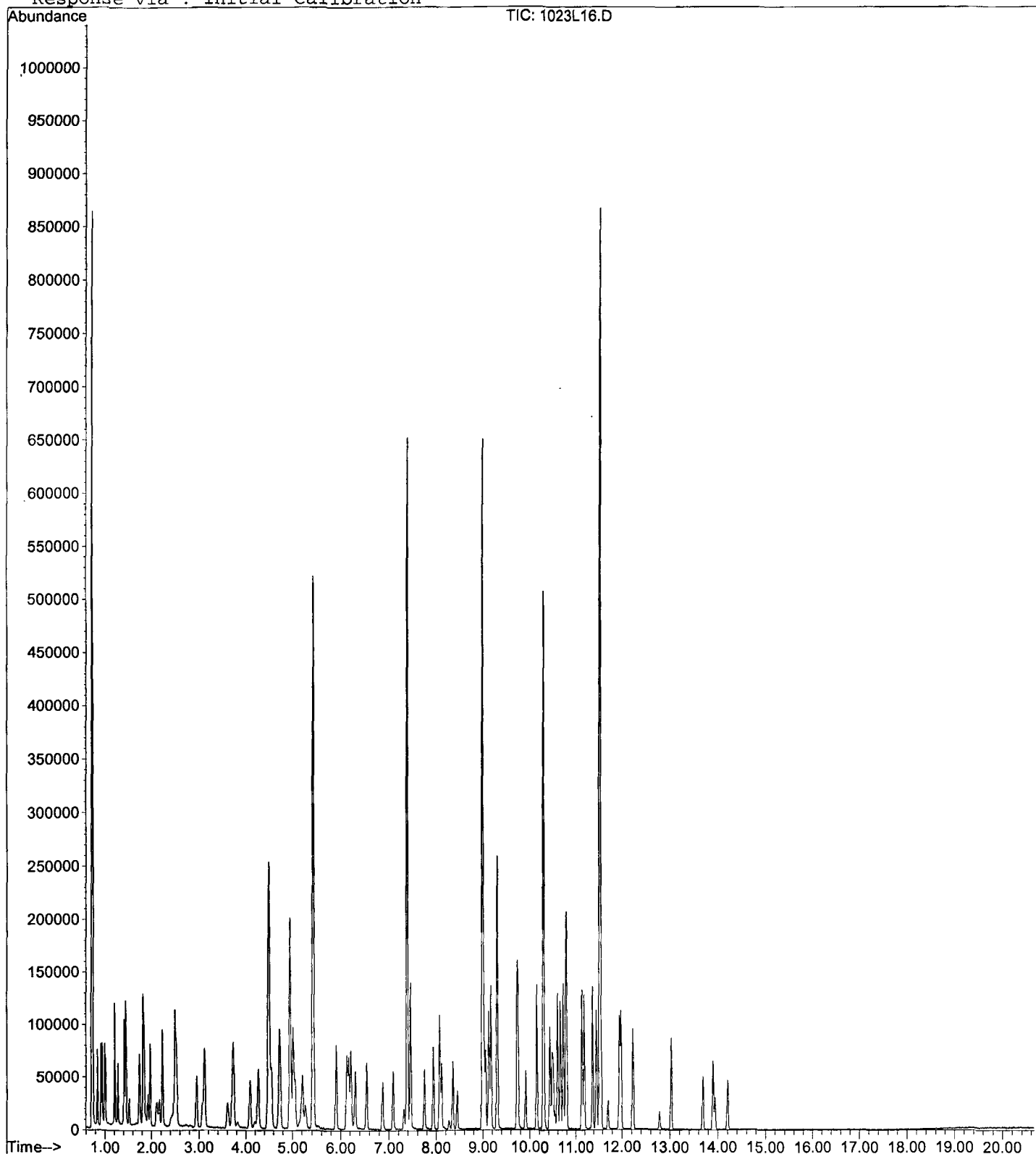
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	232256	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	154619	48.8728	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.492%	
44) 1,2-DCA-D4(S)	4.95	65	164006	48.2479	ppb	0.00
Spiked Amount	25.000		Recovery	=	192.992%	
65) Toluene-D8(S)	7.38	98	466931	55.2519	ppb	0.00
Spiked Amount	25.000		Recovery	=	221.008%	
73) 4-Bromofluorobenzene(S)	10.29	95	177941	59.4459	ppb	0.00
Spiked Amount	25.000		Recovery	=	237.784%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	21976	37.3353	ppb	87
4) Freon 114	0.91	85	43518	41.6481	ppb	93
5) Chloromethane	0.94	50	63203	38.0317	ppb	98
6) Vinyl chloride	1.01	62	66088	34.9614	ppb	95
8) Bromomethane	1.21	94	71318	32.3976	ppb	99
9) Chloroethane	1.27	64	50642	34.7475	ppb	99
10) Dichlorofluoromethane	1.41	67	125806	34.5824	ppb	99
11) Trichlorofluoromethane	1.45	103	74304	34.2973	ppb	99
13) Acrolein	1.74	56	32822	173.4499	ppb	# 71
14) Acetone	1.88	43	21286	41.1145	ppb	93
15) Freon-113	1.84	101	57076	33.5058	ppb	92
16) 1,1-DCE	1.82	96	56733	41.6787	ppb	95
17) t-Butanol	2.43	59	34928	211.6097	ppb	99
19) Acetonitrile	2.11	41	44080	152.4411	ppb	90
20) Methyl Acetate	2.16	43	52217	39.8851	ppb	86
21) Iodomethane	1.92	142	57977	41.2061	ppb	99
22) Acrylonitrile	2.47	53	28390	43.1704	ppb	92
23) Methylene chloride	2.23	84	69292	41.6402	ppb	92
24) Carbon disulfide	1.97	76	115976	36.6187	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	135915	35.7378	ppb	97
26) Trans-1,2-DCE	2.49	96	65403	40.9242	ppb	96
27) Diisopropyl Ether	3.11	45	141259	40.4356	ppb	95
29) 1,1-DCA	2.95	63	123114	45.2209	ppb	94
30) Vinyl Acetate	3.11	45	141259	40.4356	ppb	95
31) Ethyl tert Butyl Ether	3.61	59	46570	37.3281	ppb	99
32) MEK (2-Butanone)	3.82	43	6170	37.9321	ppb	83
33) Cis-1,2-DCE	3.73	96	57990	40.9810	ppb	95
34) 2,2-Dichloropropane	3.71	77	74598	37.6297	ppb	93
37) Chloroform	4.27	83	104371	36.4526	ppb	97
38) Bromochloromethane	4.09	128	35586	37.3100	ppb	# 63
40) 1,1,1-TCA	4.49	97	92639	37.6924	ppb	97
41) Cyclohexane	4.55	41	33874	38.7012	ppb	93
42) 1,1-Dichloropropene	4.74	75	57129	38.9305	ppb	96
43) 2,2,4-Trimethylpentane	5.20	57	98818	40.9269	ppb	# 82
45) Carbon Tetrachloride	4.72	117	83207	38.2338	ppb	93
46) Tert Amyl Methyl Ether	5.27	73	35618	40.5512	ppb	# 76
48) 1,2-DCA	5.06	62	78306	37.5135	ppb	97
49) Benzene	5.01	78	197673	38.4274	ppb	99
50) TCE	5.90	130	60966	37.1425	ppb	# 88

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

Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	96879	179.4785	ppb	100
52) 1,2-Dichloropropane	6.17	63	51543	39.4614	ppb	97
53) Bromodichloromethane	6.54	83	79986	38.8861	ppb	100
54) Methyl Cyclohexane	6.13	83	54839	40.4413	ppb	91
55) Dibromomethane	6.30	93	38978	38.3915	ppb	84
57) MIBK (methyl isobutyl ket	7.32	43	28419	41.2613	ppb	99
58) 1-Bromo-2-chloroethane	6.87	63	65748	40.6636	ppb	99
59) Cis-1,3-Dichloropropene	7.09	75	65769	39.2338	ppb	99
60) Toluene	7.45	91	210212	42.6980	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	64204	43.8758	ppb	97
62) 1,1,2-TCA	7.93	83	41949	39.9178	ppb	96
63) 2-Hexanone	8.27	43	10209	37.2405	ppb	# 85
66) 1,2-EDB	8.45	107	50421	41.9928	ppb	85
67) Tetrachloroethene	8.07	166	65893	36.7489	ppb	96
68) 1-Chlorohexane	9.05	91	48711	44.4391	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.13	131	63915	42.2622	ppb	96
70) m&p-Xylene	9.30	91	338863	80.2677	ppb	96
71) o-Xylene	9.73	106	82411	45.9694	ppb	89
72) Styrene	9.74	104	143659	40.1787	ppb	98
74) 1,3-Dichloropropane	8.11	76	75287	40.1118	ppb	100
75) Dibromochloromethane	8.35	129	69172	39.5077	ppb	96
76) Chlorobenzene	9.02	112	145816	38.1204	ppb	93
77) Ethylbenzene	9.17	91	208273	46.1936	ppb	94
78) Bromoform	9.91	173	53731	42.3030	ppb	90
80) Isopropylbenzene	10.15	105	118712	43.2207	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	62668	45.4844	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	22708	40.3407	ppb	97
83) t-1,4-Dichloro-2-Butene	10.53	53	8331	42.8825	ppb	86
84) Bromobenzene	10.43	156	70104	37.7990	ppb	90
85) n-Propylbenzene	10.59	91	233924	40.9506	ppb	97
86) 4-Ethyltoluene	10.72	105	211346	41.2500	ppb	96
87) 2-Chlorotoluene	10.65	91	92128	44.0023	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	199524	50.2579	ppb	98
89) 4-Chlorotoluene	10.78	126	36464	45.6604	ppb	91
90) Tert-Butylbenzene	11.14	119	147955	42.9025	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	180420	40.6587	ppb	99
92) Sec-Butylbenzene	11.37	105	219025	47.1791	ppb	97
93) p-Isopropyltoluene	11.54	119	212481	45.3397	ppb	96
94) Benzyl Chloride	11.71	91	41921	35.0799	ppb	96
95) 1,3-DCB	11.46	146	128229	42.7550	ppb	94
96) 1,4-DCB	11.56	146	139675	38.5822	ppb	98
97) n-Butylbenzene	11.98	91	142488	47.0340	ppb	95
98) 1,2-DCB	11.95	146	114832	38.0984	ppb	94
99) Hexachloroethane	12.23	201	35079	35.3722	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	9108	39.4560	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	47535	40.7746	ppb	81
102) Hexachlorobutadiene	13.90	223	10244	36.6311	ppb	# 71
103) Naphthalene	13.94	128	75231	41.0905	ppb	99
104) 1,2,3-Trichlorobenzene	14.20	182	23960	36.2357	ppb	96

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

1023L17.D L1023W.M Tue Nov 19 11:00:19 2019

Quantitation Report

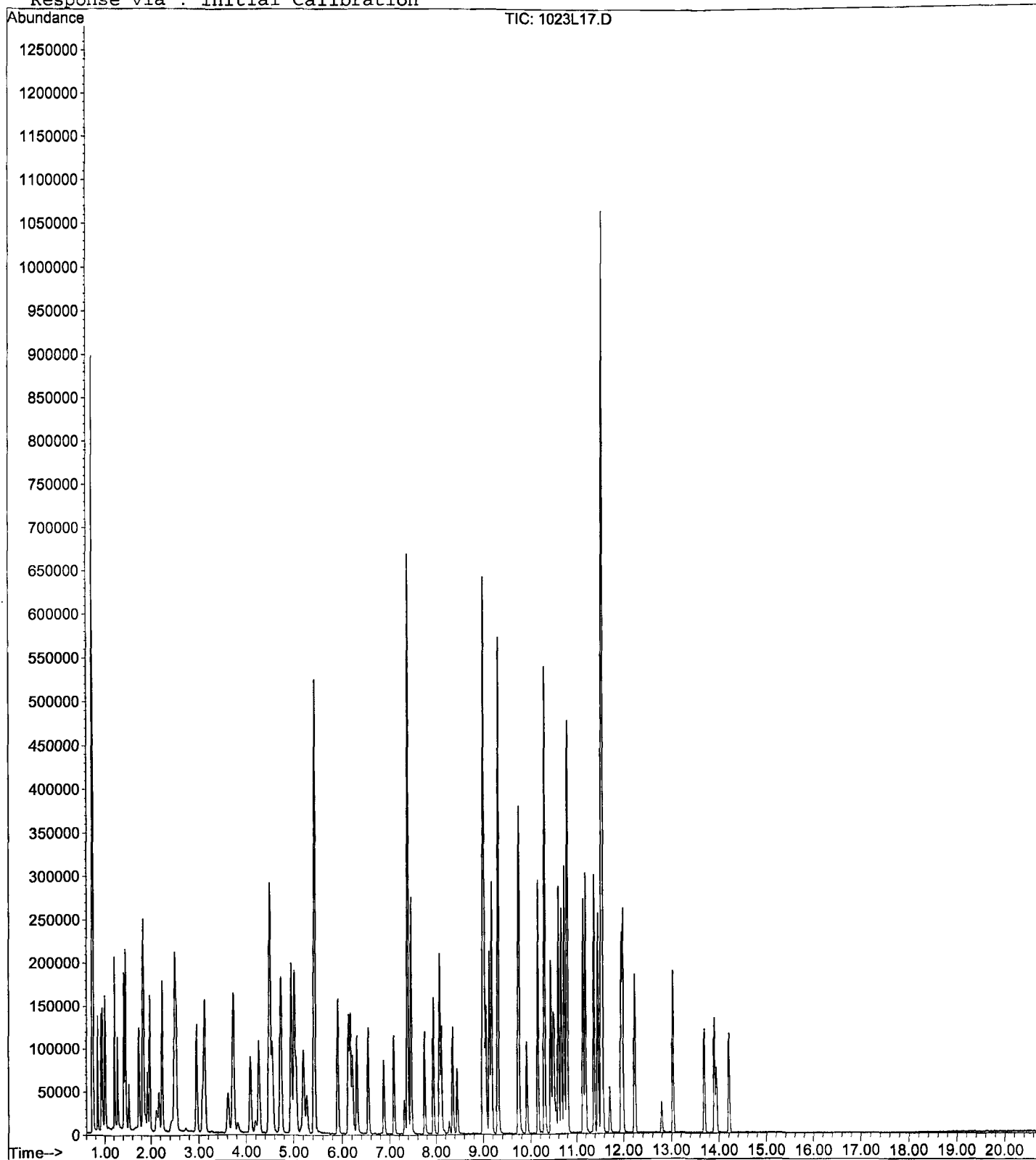
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	239360	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	281593	89.9257	ppb	0.00
Spiked Amount	25.000		Recovery	= 359.704%		
44) 1,2-DCA-D4(S)	4.95	65	301257	89.5392	ppb	0.00
Spiked Amount	25.000		Recovery	= 358.156%		
65) Toluene-D8(S)	7.38	98	920813	105.7259	ppb	0.00
Spiked Amount	25.000		Recovery	= 422.904%		
73) 4-Bromofluorobenzene(S)	10.29	95	349610	113.3300	ppb	0.00
Spiked Amount	25.000		Recovery	= 453.320%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	58858	100.9246	ppb	89
4) Freon 114	0.91	85	100326	99.0158	ppb	95
5) Chloromethane	0.94	50	164075	100.6879	ppb	99
6) Vinyl chloride	1.01	62	154688	82.6761	ppb	96
8) Bromomethane	1.20	94	171941	79.5330	ppb	99
9) Chloroethane	1.27	64	109740	76.3485	ppb	99
10) Dichlorofluoromethane	1.41	67	276740	76.8571	ppb	100
11) Trichlorofluoromethane	1.44	103	203432	94.8691	ppb	95
13) Acrolein	1.74	56	38124	203.5472	ppb	# 29
14) Acetone	1.88	43	47886	99.3808	ppb	99
15) Freon-113	1.83	101	137071	81.2961	ppb	95
16) 1,1-DCE	1.82	96	131579	99.1554	ppb	98
17) t-Butanol	2.42	59	56335	344.0788	ppb	96
19) Acetonitrile	2.10	41	46267	161.6551	ppb	97
20) Methyl Acetate	2.16	43	112199	87.3733	ppb	95
21) Iodomethane	1.92	142	169897	118.6397	ppb	94
22) Acrylonitrile	2.47	53	61987	98.4189	ppb	89
23) Methylene chloride	2.23	84	159135	99.0274	ppb	97
24) Carbon disulfide	1.97	76	266304	85.3837	ppb	98
25) Methyl t-butyl ether (MtBE)	2.52	73	320920	85.2541	ppb	96
26) Trans-1,2-DCE	2.49	96	155132	99.3476	ppb	98
27) Diisopropyl Ether	3.12	45	344132	99.5245	ppb	99
29) 1,1-DCA	2.95	63	269292	99.9339	ppb	94
30) Vinyl Acetate	3.12	45	344132	99.5245	ppb	99
31) Ethyl tert Butyl Ether	3.62	59	126915	102.7780	ppb	95
32) MEK (2-Butanone)	3.82	43	16476	101.1470	ppb	91
33) Cis-1,2-DCE	3.73	96	138211	99.5018	ppb	92
34) 2,2-Dichloropropane	3.71	77	174471	88.9169	ppb	95
37) Chloroform	4.27	83	242258	85.4840	ppb	94
38) Bromochloromethane	4.09	128	77334	81.9171	ppb	# 65
40) 1,1,1-TCA	4.48	97	220083	90.4700	ppb	99
41) Cyclohexane	4.55	41	87304	100.6304	ppb	81
42) 1,1-Dichloropropene	4.74	75	148550	102.2737	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	267273	111.8369	ppb	# 78
45) Carbon Tetrachloride	4.72	117	199279	92.5139	ppb	98
46) Tert Amyl Methyl Ether	5.27	73	102663	118.0880	ppb	# 86
48) 1,2-DCA	5.05	62	179804	87.0261	ppb	98
49) Benzene	5.01	78	469758	92.2625	ppb	98
50) TCE	5.91	130	147267	90.6457	ppb	91

(#) = qualifier out of range (m) = manual integration
 1023L18.D L1023W.M Tue Nov 19 11:00:21 2019

Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	116946	218.8900	ppb	98
52) 1,2-Dichloropropane	6.17	63	119334	92.3048	ppb	97
53) Bromodichloromethane	6.54	83	184598	90.6703	ppb	96
54) Methyl Cyclohexane	6.13	83	146085	108.8425	ppb	89
55) Dibromomethane	6.30	93	88392	87.9602	ppb	83
57) MIBK (methyl isobutyl ket	7.32	43	70099	102.9020	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	151148	94.4460	ppb	95
59) Cis-1,3-Dichloropropene	7.09	75	164269	99.0039	ppb	94
60) Toluene	7.45	91	512676	105.2084	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	160691	110.9460	ppb	96
62) 1,1,2-TCA	7.93	83	95909	92.2067	ppb	89
63) 2-Hexanone	8.27	43	27810	100.8992	ppb	# 86
66) 1,2-EDB	8.45	107	121094	97.8591	ppb	88
67) Tetrachloroethene	8.07	166	163999	88.7487	ppb	96
68) 1-Chlorohexane	9.06	91	134962	119.4718	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.12	131	152266	98.9558	ppb	89
70) m&p-Xylene	9.31	91	886987	200.5103	ppb	97
71) o-Xylene	9.73	106	219398	118.7494	ppb	94
72) Styrene	9.74	104	378918	100.4312	ppb	98
74) 1,3-Dichloropropane	8.11	76	176562	91.2777	ppb	100
75) Dibromochloromethane	8.35	129	161221	89.3487	ppb	93
76) Chlorobenzene	9.02	112	356125	90.3380	ppb	94
77) Ethylbenzene	9.17	91	538282	115.8441	ppb	95
78) Bromoform	9.91	173	121836	93.0759	ppb	89
80) Isopropylbenzene	10.15	105	323840	109.5581	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	140032	97.4201	ppb	96
82) 1,2,3-Trichloropropane	10.50	110	46087	76.4167	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	20073	96.0090	ppb	100
84) Bromobenzene	10.43	156	171822	86.0861	ppb	96
85) n-Propylbenzene	10.59	91	620871	99.9546	ppb	94
86) 4-Ethyltoluene	10.72	105	559675	99.9320	ppb	96
87) 2-Chlorotoluene	10.65	91	230269	102.1963	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	507278	118.7331	ppb	100
89) 4-Chlorotoluene	10.78	126	98736	114.8862	ppb	92
90) Tert-Butylbenzene	11.14	119	412431	111.1274	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	488409	100.2811	ppb	96
92) Sec-Butylbenzene	11.38	105	593550	118.8036	ppb	97
93) p-Isopropyltoluene	11.54	119	573299	113.6727	ppb	96
94) Benzyl Chloride	11.72	91	130635	101.5787	ppb	94
95) 1,3-DCB	11.46	146	320104	99.1763	ppb	92
96) 1,4-DCB	11.56	146	352781	90.5503	ppb	99
97) n-Butylbenzene	11.98	91	414547	127.1523	ppb	96
98) 1,2-DCB	11.95	146	305584	94.2086	ppb	96
99) Hexachloroethane	12.23	201	110613	101.9197	ppb	96
100) 1,2-Dibromo-3-chloropropan	12.79	75	25043	100.4194	ppb	83
101) 1,2,4-Trichlorobenzene	13.69	180	167192	99.9452	ppb	85
102) Hexachlorobutadiene	13.90	223	31392	102.1316	ppb	# 78
103) Naphthalene	13.94	128	291902	99.9353	ppb	95
104) 1,2,3-Trichlorobenzene	14.21	182	76648	102.2441	ppb	91

(#) = qualifier out of range (m) = manual integration
 1023L18.D L1023W.M Tue Nov 19 11:00:22 2019

Quantitation Report

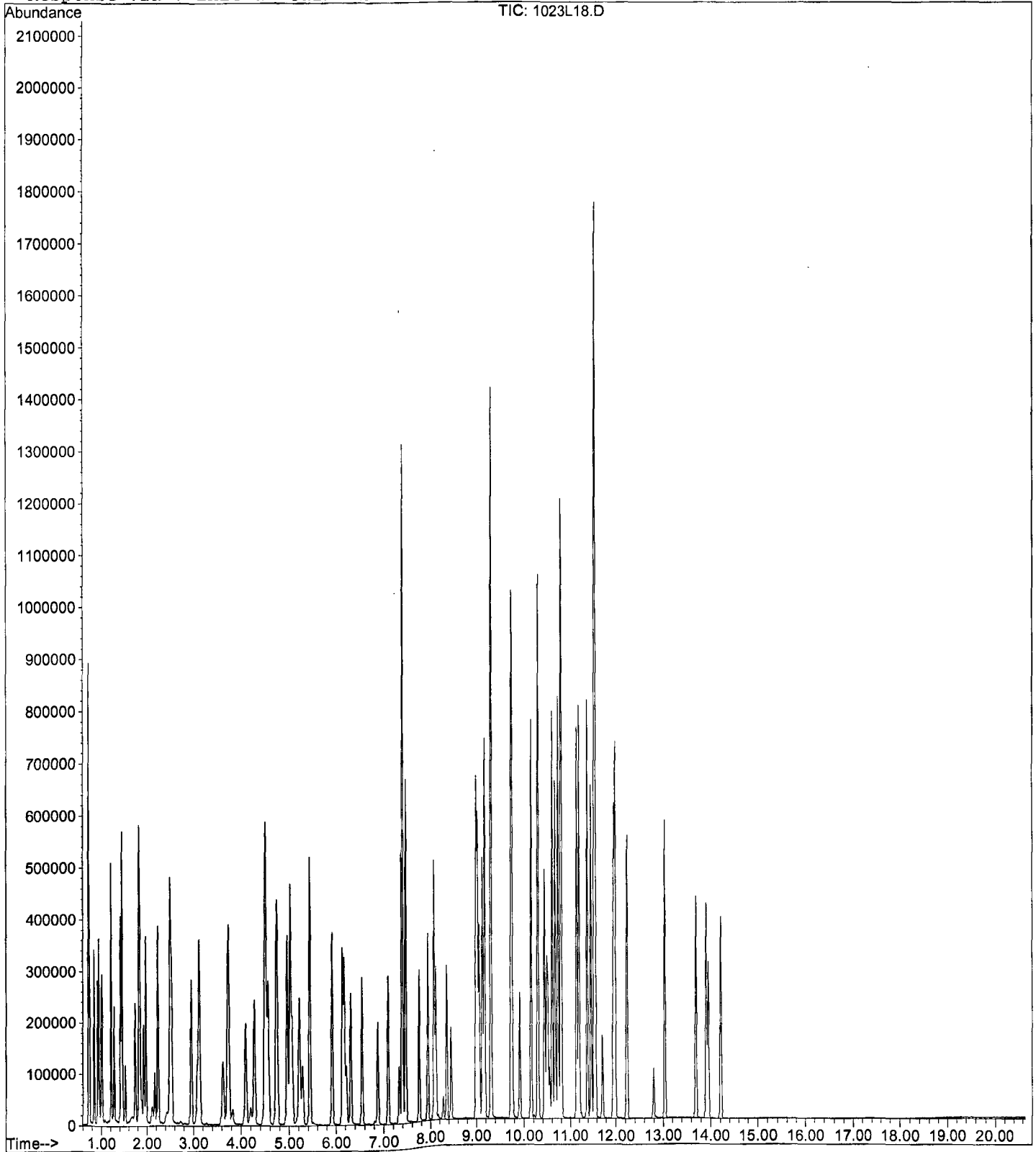
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D		%Drift
1	TML	Dichlorodifluoromethane	0.0636	0.0637	0.06	TML	12
2	TML	Freon 114	0.1338	0.1699	27	TML	58*
3	TM**L	Chloromethane	0.2092	0.1892	9.6	TM**L	13
4	TM*	Vinyl chloride	0.1839	0.2117	15	TM*	
5	TML	Bromomethane	0.2799	0.2324	17	TML	5.7
6	TML	Chloroethane	0.1659	0.1816	9.4	TML	27*
7	TM	Dichlorofluoromethane	0.3539	0.3390	4.2	TM	
8	TM	Trichlorofluoromethane	0.2108	0.1987	5.7	TM	
9	TM	Diethyl ether	0.0000	0.0312	0.00	TM	
10	TM	Acrolein	0.0184	0.0198	7.3	TM	
11	TML	Acetone	0.0763	0.0733	4.0	TML	15
12	TM	Freon-113	0.1657	0.1747	5.4	TM	
13	TM*L	1,1-DCE	0.1612	0.1456	9.7	TM*L	1.7
14	TML	t-Butanol	0.0165	0.0133	19	TML	17
15	TM	2-Propanol	0.0000	0.0003	0.00	TM	
16	TM	Acetonitrile	0.0281	0.0211	25	TM	*
17	TML	Methyl Acetate	0.1524	0.1378	9.5	TML	3.3
18	TML	Iodomethane	0.0834	0.1006	21	TML	12
19	TML	Acrylonitrile	0.0844	0.0793	6.1	TML	5.1
20	TML	Methylene chloride	0.2298	0.1948	15	TML	7.3
21	TML	Carbon disulfide	0.3814	0.3663	4.0	TML	17
22	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3594	2.9	TM	
23	TML	Trans-1,2-DCE	0.1832	0.1659	9.4	TML	0.05
24	TM	Diisopropyl Ether	0.3399	0.3666	7.8	TM	
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0012	0.00	TM**	
26	TM**	1,1-DCA	0.2649	0.2738	3.4	TM**	
27	TM	Vinyl Acetate	0.3399	0.3666	7.8	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1314	8.2	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0170	5.2	TML	12
30	TML	Cis-1,2-DCE	0.1575	0.1350	14	TML	6.4
31	TM	2,2-Dichloropropane	0.1929	0.1844	4.4	TM	
32	TM	2-Methylpentane	0.0000	0.0002	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0735	0.00	TM	
34	TM*	Chloroform	0.2786	0.2542	8.8	TM*	
35	TM	Bromochloromethane	0.0928	0.0883	4.9	TM	
36	TM	1,1,1-TCA	0.2391	0.2222	7.1	TM	
37	TML	Cyclohexane	0.0941	0.1069	14	TML	26*
38	TM	1,1-Dichloropropene	0.1428	0.1312	8.1	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2565	9.2	TM	
40	TM	Carbon Tetrachloride	0.2117	0.2206	4.2	TM	

Average

8.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/24/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1023L20.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.0855	0.0886	3.7	TM
42	TM	Methylcyclopentane	0.0000	0.0173	0.00	TM
43	TM	1,2-DCA	0.2031	0.1923	5.3	TM
44	TM	Benzene	0.5005	0.4393	12	TM
45	TM	TCE	0.1597	0.1433	10	TM
46	TM	2-Pentanone	0.0525	0.0415	21	TM
47	TM*	1,2-Dichloropropane	0.1271	0.1187	6.6	TM*
48	TM	Bromodichloromethane	0.2001	0.1961	2.0	TM
49	TM	Methyl Cyclohexane	0.1319	0.1482	12	TM
50	TM	Dibromomethane	0.0988	0.0921	6.8	TM
51	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0692	0.93	TML 2.9
52	TM	1-Bromo-2-chloroethane	0.1573	0.1721	9.4	TM
53	TM	Cis-1,3-Dichloropropene	0.1631	0.1506	7.6	TM
54	TM*	Toluene	0.4790	0.4556	4.9	TM*
55	TM	Trans-1,3-Dichloropropene	0.1424	0.1357	4.6	TM
56	TM	1,1,2-TCA	0.1022	0.0950	7.1	TM
57	TML	2-Hexanone	0.0269	0.0282	4.8	TML 12
58	TM	1,2-EDB	0.1292	0.1359	5.1	TM
59	TM	Tetrachloroethene	0.1930	0.1947	0.90	TM
60	TM	1-Chlorohexane	0.1180	0.1316	12	TM
61	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1734	9.0	TML 0.65
62	TML	m&p-Xylene	0.3768	0.3571	5.2	TML 13
63	TM	o-Xylene	0.1930	0.1790	7.3	TM
64	TML	Styrene	0.2916	0.2878	1.3	TML 13
65	TM	1,3-Dichloropropane	0.2020	0.1898	6.0	TM
66	TM	Dibromochloromethane	0.1885	0.1895	0.54	TM
67	TM**	Chlorobenzene	0.4117	0.3876	5.9	TM**
68	TM*	Ethylbenzene	0.4853	0.4916	1.3	TM*
69	TM**	Bromoform	0.1367	0.1339	2.1	TM**
70	TM	Isopropylbenzene	0.5206	0.4731	9.1	TM
71	TM**L	1,1,1,2-Tetrachloroethane	0.3634	0.3272	10.0	TM**L 5.2
72	TML	1,2,3-Trichloropropane	0.1211	0.1103	8.9	TML 0.53
73	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0354	3.8	TM
74	TM	Bromobenzene	0.3515	0.3413	2.9	TM
75	TML	n-Propylbenzene	0.9036	0.9575	6.0	TML 6.0
76	TML	4-Ethyltoluene	0.7832	0.8835	13	TML 0.63
77	TM	2-Chlorotoluene	0.3968	0.4020	1.3	TM
78	TML	1,3,5-Trimethylbenzene	0.7524	0.7169	4.7	TML 14
79	TM	4-Chlorotoluene	0.1514	0.1524	0.69	TM
80	TM	Tert-Butylbenzene	0.6536	0.7181	9.9	TM

Average

6.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	1,2,4-Trimethylbenzene	0.6824	0.6562	3.8	TML	11
82	TM	Sec-Butylbenzene	0.8799	0.9209	4.7	TM	
83	TM	p-Isopropyltoluene	0.8882	0.8730	1.7	TM	
84	TM	Benzyl Chloride	0.2265	0.1811	20	TM	
85	TM	1,3-DCB	0.5684	0.5675	0.16	TM	
86	TM	1,4-DCB	0.6861	0.6376	7.1	TM	
87	TM	n-Butylbenzene	0.5742	0.5498	4.2	TM	
88	TM	1,2-DCB	0.5713	0.5088	11	TM	
89	TML	Hexachloroethane	0.1724	0.1885	9.3	TML	6.7
90	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0462	2.2	TML	7.5
91	TMQ	1,2,4-Trichlorobenzene	0.1848	0.1984	7.3	TMQ	11
92	TML	Hexachlorobutadiene	0.0602	0.0540	10	TML	10
93	TMQ	Naphthalene	0.2958	0.3015	1.9	TMQ	17
94	TML	1,2,3-Trichlorobenzene	0.1086	0.0728	33	TML	19
95							
96							
97							
98							
99							
100							
101							
102							
103							
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111							
112							
113							
114							
115							
116							
117							
118							
119							
120		Average			8.3		

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	242176	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211264	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	108216	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	74313	24.9232	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.692%	
44) 1,2-DCA-D4(S)	4.95	65	76856	23.9900	ppb	0.00
Spiked Amount				25.000		
					Recovery = 95.960%	
65) Toluene-D8(S)	7.38	98	202484	26.3407	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.364%	
73) 4-Bromofluorobenzene(S)	10.29	95	69631	25.5735	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.292%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	6167	11.1587	ppb	92
4) Freon 114	0.91	85	16457	15.8058	ppb	98
5) Chloromethane	0.94	50	18325	11.2994	ppb	97
6) Vinyl chloride	1.01	62	20504	11.5090	ppb	94
8) Bromomethane	1.21	94	22516	10.5658	ppb	96
9) Chloroethane	1.27	64	17588	12.6587	ppb	98
10) Dichlorofluoromethane	1.41	67	32835	9.5769	ppb	98
11) Trichlorofluoromethane	1.45	103	19247	9.4264	ppb	88
13) Acrolein	1.74	56	23915	134.0954	ppb	# 100
14) Acetone	1.87	43	7099	11.5371	ppb	95
15) Freon-113	1.84	101	16924	10.5415	ppb	90
16) 1,1-DCE	1.82	96	14102	10.1735	ppb	93
17) t-Butanol	2.41	59	16098	104.0878	ppb	99
19) Acetonitrile	2.10	41	25491	93.5366	ppb	94
20) Methyl Acetate	2.16	43	13350	10.3294	ppb	86
21) Iodomethane	1.92	142	9741	8.7530	ppb	97
22) Acrylonitrile	2.47	53	7680	10.5067	ppb	# 70
23) Methylene chloride	2.23	84	18868	10.7325	ppb	95
24) Carbon disulfide	1.97	76	35488	11.6680	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	34814	9.7129	ppb	95
26) Trans-1,2-DCE	2.49	96	16072	9.9949	ppb	96
27) Diisopropyl Ether	3.11	45	35508	10.7847	ppb	98
29) 1,1-DCA	2.95	63	26522	10.3365	ppb	91
30) Vinyl Acetate	3.11	45	35508	10.7847	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	12726	10.8232	ppb	97
32) MEK (2-Butanone)	3.81	43	1647	11.2458	ppb	85
33) Cis-1,2-DCE	3.73	96	13075	9.3601	ppb	95
34) 2,2-Dichloropropane	3.72	77	17859	9.5586	ppb	97
37) Chloroform	4.27	83	24623	9.1248	ppb	95
38) Bromochloromethane	4.09	128	8551	9.5126	ppb	73
40) 1,1,1-TCA	4.48	97	21529	9.2943	ppb	95
41) Cyclohexane	4.55	41	10355	12.6135	ppb	95
42) 1,1-Dichloropropene	4.74	75	12713	9.1921	ppb	98
43) 2,2,4-Trimethylpentane	5.20	57	24847	10.9189	ppb	95
45) Carbon Tetrachloride	4.72	117	21365	10.4166	ppb	88
46) Tert Amyl Methyl Ether	5.27	73	8587	10.3731	ppb	# 87
48) 1,2-DCA	5.06	62	18628	9.4688	ppb	100
49) Benzene	5.01	78	42555	8.7777	ppb	91
50) TCE	5.90	130	13885	8.9756	ppb	# 88

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

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	50296	98.8668	ppb	99
52) 1,2-Dichloropropane	6.16	63	11499	9.3411	ppb	97
53) Bromodichloromethane	6.54	83	18992	9.7968	ppb	97
54) Methyl Cyclohexane	6.13	83	14354	11.2316	ppb	92
55) Dibromomethane	6.30	93	8920	9.3221	ppb	85
57) MIBK (methyl isobutyl ket	7.31	43	6705	10.2911	ppb	97
58) 1-Bromo-2-chloroethane	6.87	63	16669	10.9387	ppb	92
59) Cis-1,3-Dichloropropene	7.08	75	14591	9.2355	ppb	99
60) Toluene	7.45	91	44134	9.5117	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	13150	9.5350	ppb	90
62) 1,1,2-TCA	7.94	83	9202	9.2910	ppb	90
63) 2-Hexanone	8.27	43	2731	11.2215	ppb #	73
66) 1,2-EDB	8.45	107	11482	10.5129	ppb #	93
67) Tetrachloroethene	8.07	166	16456	10.0895	ppb	91
68) 1-Chlorohexane	9.05	91	11120	11.1528	ppb #	85
69) 1,1,1,2-Tetrachloroethane	9.13	131	14657	9.9351	ppb	90
70) m&p-Xylene	9.30	91	60351	17.4697	ppb	97
71) o-Xylene	9.73	106	15124	9.2745	ppb	95
72) Styrene	9.74	104	24322	8.7308	ppb	91
74) 1,3-Dichloropropane	8.11	76	16040	9.3950	ppb	99
75) Dibromochloromethane	8.35	129	16012	10.0540	ppb	88
76) Chlorobenzene	9.02	112	32755	9.4139	ppb	91
77) Ethylbenzene	9.17	91	41541	10.1290	ppb	96
78) Bromoform	9.91	173	11312	9.7910	ppb	93
80) Isopropylbenzene	10.14	105	20480	9.0885	ppb	92
81) 1,1,2,2-Tetrachloroethane	10.47	83	14162	10.5233	ppb	97
82) 1,2,3-Trichloropropane	10.50	110	4774	10.0531	ppb	92
83) t-1,4-Dichloro-2-Butene	10.53	53	1533	9.6182	ppb #	72
84) Bromobenzene	10.43	156	14772	9.7083	ppb	88
85) n-Propylbenzene	10.59	91	41447	9.4007	ppb	90
86) 4-Ethyltoluene	10.72	105	38245	9.9373	ppb	91
87) 2-Chlorotoluene	10.65	91	17403	10.1315	ppb	87
88) 1,3,5-Trimethylbenzene	10.80	105	31032	8.6180	ppb	98
89) 4-Chlorotoluene	10.78	126	6597	10.0691	ppb	93
90) Tert-Butylbenzene	11.14	119	31086	10.9871	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	28403	8.8651	ppb	94
92) Sec-Butylbenzene	11.38	105	39863	10.4663	ppb	100
93) p-Isopropyltoluene	11.54	119	37788	9.8283	ppb	98
94) Benzyl Chloride	11.71	91	7838	7.9946	ppb	90
95) 1,3-DCB	11.46	146	24567	9.9843	ppb	94
96) 1,4-DCB	11.56	146	27600	9.2927	ppb	98
97) n-Butylbenzene	11.98	91	23799	9.5754	ppb	95
98) 1,2-DCB	11.95	146	22023	8.9061	ppb	99
99) Hexachloroethane	12.23	201	8159	10.6676	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	2001	10.7486	ppb	94
101) 1,2,4-Trichlorobenzene	13.69	180	8588	11.0951	ppb	76
102) Hexachlorobutadiene	13.90	223	2339	11.0448	ppb #	57
103) Naphthalene	13.94	128	13049	11.7446	ppb	97
104) 1,2,3-Trichlorobenzene	14.21	182	3150	8.1348	ppb #	79

(#) = qualifier out of range (m) = manual integration
 1023L20.D L1023W.M Tue Nov 19 11:00:25 2019

Quantitation Report

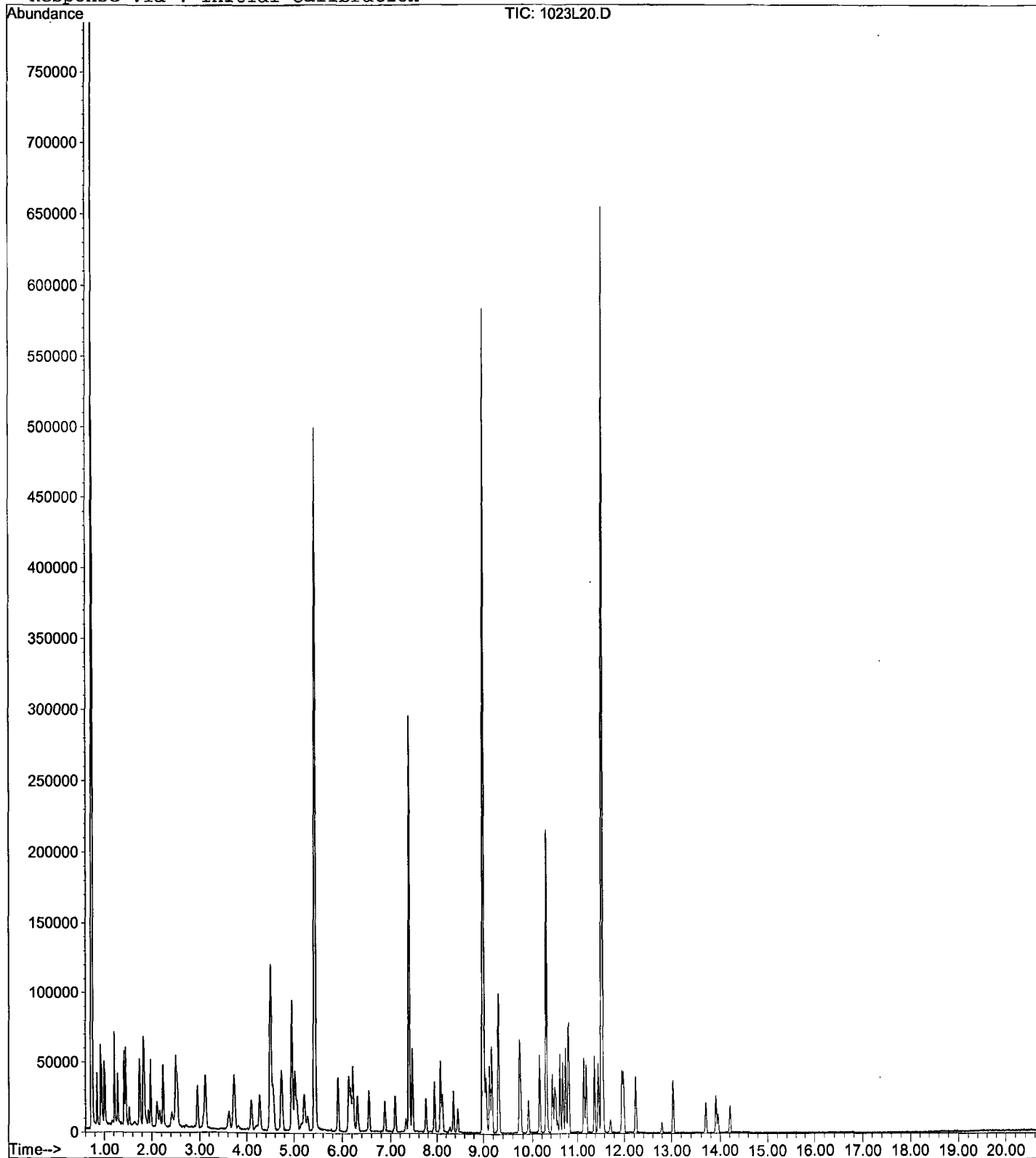
Data File : M:\LOKI\DATA\191023\1023L20.D
Acq On : 24 Oct 19 00:15
Sample : (SS)10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19 _____

Matrix: _____

Instrument: Loki _____

Initial Cal. Date: 10/23/19 _____

Data File: 1028L21.D _____

	Compound	MEAN	CCRF	%D	%Drift	
1	I Fluorobenzene (IS)	ISTD			I	
2	TML Dichlorodifluoromethane	0.0636	0.0553	13	TML	3.1
3	TML Freon 114	0.1338	0.1179	12	TML	5.0
4	TM**L Chloromethane	0.2092	0.1119	46	TM**L	36 *
5	TM* Vinyl chloride	0.1839	0.1185	36	TM*	*
6	TML Bromomethane	0.2799	0.1345	52	TML	41 *
7	TML Chloroethane	0.1659	0.0738	56	TML	50 *
8	TM Dichlorofluoromethane	0.3539	0.2105	41	TM	*
9	TM Trichlorofluoromethane	0.2108	0.1763	16	TM	
10	TM Diethyl ether	0.0000	0.0209	0.00	TM	
11	TM Acrolein	0.0184	0.0099	46	TM	*
12	TML Acetone	0.0763	0.0456	40	TML	46 *
13	TM Freon-113	0.1657	0.1197	28	TM	*
14	TM*L 1,1-DCE	0.1612	0.1087	33	TM*L	27 *
15	TML t-Butanol	0.0165	0.0122	26	TML	23 *
16	TM 2-Propanol	0.0000	0.0001	0.00	TM	
17	TM Acetonitrile	0.0281	0.0162	42	TM	*
18	TML Methyl Acetate	0.1524	0.0733	52	TML	48 *
19	TML Iodomethane	0.0834	0.0322	61	TML	60 *
20	TML Acrylonitrile	0.0844	0.0465	45	TML	49 *
21	TML Methylene chloride	0.2298	0.1387	40	TML	29 *
22	TML Carbon disulfide	0.3814	0.2221	42	TML	31 *
23	TM Methyl t-butyl ether (MtBE)	0.3700	0.2952	20	TM	
24	TML Trans-1,2-DCE	0.1832	0.1288	30	TML	24 *
25	TM Diisopropyl Ether	0.3399	0.2665	22	TM	*
26	TM** 1,1-DCA	0.2649	0.2085	21	TM**	*
27	TM Vinyl Acetate	0.3399	0.2665	22	TM	*
28	TM Ethyl tert Butyl Ether	0.1214	0.1624	34	TM	*
29	TML MEK (2-Butanone)	0.0179	0.0130	27	TML	12
30	TML Cis-1,2-DCE	0.1575	0.1206	23	TML	17
31	TM 2,2-Dichloropropane	0.1929	0.1729	10	TM	
32	TM 2-Methylpentane	0.0000	0.0008	0.00	TM	
33	TM 3-Methylpentane	0.0000	0.0572	0.00	TM	
34	TM* Chloroform	0.2786	0.2449	12	TM*	
35	TM Bromochloromethane	0.0928	0.0804	13	TM	
36	S Dibromofluoromethane(S)	0.3078	0.3004	2.4	S	
37	TM 1,1,1-TCA	0.2391	0.2334	2.4	TM	
38	TML Cyclohexane	0.0941	0.0697	26	TML	18
39	TM 1,1-Dichloropropene	0.1428	0.1356	5.0	TM	
40	TM 2,2,4-Trimethylpentane	0.2349	0.2119	9.8	TM	

Average

25.8

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L21.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.3307	0.3491	5.6	S
42	TM	Carbon Tetrachloride	0.2117	0.2203	4.1	TM
43	TM	Tert Amyl Methyl Ether	0.0855	0.1344	57	TM
44	TM	Methylcyclopentane	0.0000	0.0103	0.00	TM
45	TM	1,2-DCA	0.2031	0.1987	2.2	TM
46	TM	Benzene	0.5005	0.4377	13	TM
47	TM	TCE	0.1597	0.1448	9.3	TM
48	TM	2-Pentanone	0.0525	0.0563	7.2	TM
49	TM*	1,2-Dichloropropane	0.1271	0.1080	15	TM*
50	TM	Bromodichloromethane	0.2001	0.1904	4.9	TM
51	TM	Methyl Cyclohexane	0.1319	0.1383	4.8	TM
52	TM	Dibromomethane	0.0988	0.0900	8.9	TM
53	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0633	7.8	TML 6.0
54	TM	1-Bromo-2-chloroethane	0.1573	0.1339	15	TM
55	TM	Cis-1,3-Dichloropropene	0.1631	0.1602	1.8	TM
56	TM*	Toluene	0.4790	0.4925	2.8	TM*
57	TM	Trans-1,3-Dichloropropene	0.1424	0.1629	14	TM
58	TM	1,1,2-TCA	0.1022	0.0929	9.2	TM
59	TML	2-Hexanone	0.0269	0.0269	0.18	TML 7.3
60	I	Chlorobenzene-D5 (IS)	ISTD			I
61	S	Toluene-D8(S)	0.9097	0.9546	4.9	S
62	TM	1,2-EDB	0.1292	0.1147	11	TM
63	TM	Tetrachloroethene	0.1930	0.1814	6.0	TM
64	TM	1-Chlorohexane	0.1180	0.1193	1.1	TM
65	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1608	16	TML 8.6
66	TML	m&p-Xylene	0.3768	0.3931	4.3	TML 4.9
67	TM	o-Xylene	0.1930	0.1839	4.7	TM
68	TML	Styrene	0.2916	0.3064	5.1	TML 8.1
69	S	4-Bromofluorobenzene(S)	0.3222	0.3582	11	S
70	TM	1,3-Dichloropropane	0.2020	0.1817	10	TM
71	TM	Dibromochloromethane	0.1885	0.1750	7.1	TM
72	TM**	Chlorobenzene	0.4117	0.3644	11	TM**
73	TM*	Ethylbenzene	0.4853	0.5183	6.8	TM*
74	TM**	Bromoform	0.1367	0.1350	1.3	TM**
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
76	TM	Isopropylbenzene	0.5206	0.5063	2.7	TM
77	TM**L	1,1,1,2,2-Tetrachloroethane	0.3634	0.2668	27	TM**L 19
78	TML	1,2,3-Trichloropropane	0.1211	0.1011	17	TML 8.1
79	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0379	3.0	TM
80	TM	Bromobenzene	0.3515	0.3035	14	TM

Average

9.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1028L21.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	n-Propylbenzene	0.9036	0.9786	8.3	TML	4.1
82	TML	4-Ethyltoluene	0.7832	0.8319	6.2	TML	5.8
83	TM	2-Chlorotoluene	0.3968	0.3812	3.9	TM	
84	TML	1,3,5-Trimethylbenzene	0.7524	0.7605	1.1	TML	9.0
85	TM	4-Chlorotoluene	0.1514	0.1326	12	TM	
86	TM	Tert-Butylbenzene	0.6536	0.6668	2.0	TM	
87	TML	1,2,4-Trimethylbenzene	0.6824	0.7027	3.0	TML	6.0
88	TM	Sec-Butylbenzene	0.8799	0.8516	3.2	TM	
89	TM	p-Isopropyltoluene	0.8882	0.8340	6.1	TM	
90	TM	Benzyl Chloride	0.2265	0.2165	4.4	TM	
91	TM	1,3-DCB	0.5684	0.5406	4.9	TM	
92	TM	1,4-DCB	0.6861	0.5713	17	TM	
93	TM	n-Butylbenzene	0.5742	0.5615	2.2	TM	
94	TM	1,2-DCB	0.5713	0.5236	8.3	TM	
95	TML	Hexachloroethane	0.1724	0.2454	42	TML	36*
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0425	10.0	TML	0.88
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2576	39	TMQ	40*
98	TML	Hexachlorobutadiene	0.0602	0.0781	30	TML	54*
99	TMQ	Naphthalene	0.2958	0.3906	32	TMQ	46*
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1201	11	TML	16
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

12.3

Data File : M:\LOKI\DATA\191023\1028L21.D
 Acq On : 28 Oct 19 19:39
 Sample : 191028B CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	295872	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	295104	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	165824	25.0000	ppb	0.00

System Monitoring Compounds

39) Dibromofluoromethane(S)	4.50	111	88893	24.4025	ppb	0.00
Spiked Amount			Recovery	=	97.608%	
44) 1,2-DCA-D4(S)	4.95	65	103292	26.3904	ppb	0.00
Spiked Amount			Recovery	=	105.560%	
65) Toluene-D8(S)	7.38	98	281710	26.2355	ppb	0.00
Spiked Amount			Recovery	=	104.940%	
73) 4-Bromofluorobenzene(S)	10.28	95	105711	27.7944	ppb	0.00
Spiked Amount			Recovery	=	111.176%	

Target Compounds

						Qvalue
3) Dichlorodifluoromethane	0.83	87	6539	9.6924	ppb	96
4) Freon 114	0.91	85	13949	10.5026	ppb	94
5) Chloromethane	0.94	50	13246	6.4491	ppb	91
6) Vinyl chloride	1.01	62	14028	6.4450	ppb	99
8) Bromomethane	1.21	94	15923	5.9343	ppb	99
9) Chloroethane	1.27	64	8737	5.0100	ppb	98
10) Dichlorofluoromethane	1.41	67	24908	5.9464	ppb	99
11) Trichlorofluoromethane	1.45	103	20870	8.3663	ppb	91
13) Acrolein	1.75	56	14594	66.9800	ppb	# 67
14) Acetone	1.88	43	5400	5.4241	ppb	90
15) Freon-113	1.83	101	14163	7.2208	ppb	93
16) 1,1-DCE	1.82	96	12867	7.3164	ppb	91
17) t-Butanol	2.42	59	18071	95.7356	ppb	94
19) Acetonitrile	2.11	41	23971	71.9960	ppb	# 85
20) Methyl Acetate	2.16	43	8671	5.1763	ppb	91
21) Iodomethane	1.92	142	3813	3.9682	ppb	95
22) Acrylonitrile	2.47	53	5508	5.0761	ppb	91
23) Methylene chloride	2.23	84	16417	7.1181	ppb	98
24) Carbon disulfide	1.97	76	26288	6.9456	ppb	96
25) Methyl t-butyl ether (MtBE)	2.52	73	34935	7.9778	ppb	94
26) Trans-1,2-DCE	2.49	96	15243	7.5545	ppb	86
27) Diisopropyl Ether	3.12	45	31542	7.8415	ppb	90
29) 1,1-DCA	2.95	63	24681	7.8733	ppb	# 89
30) Vinyl Acetate	3.12	45	31542	7.8415	ppb	90
31) Ethyl tert Butyl Ether	3.61	59	19217	13.3776	ppb	92
32) MEK (2-Butanone)	3.82	43	1542	8.7817	ppb	85
33) Cis-1,2-DCE	3.73	96	14273	8.3012	ppb	96
34) 2,2-Dichloropropane	3.71	77	20463	8.9647	ppb	93
37) Chloroform	4.27	83	28982	8.7910	ppb	91
38) Bromochloromethane	4.09	128	9519	8.6676	ppb	78
40) 1,1,1-TCA	4.48	97	27622	9.7606	ppb	96
41) Cyclohexane	4.55	41	8243	8.2499	ppb	# 68
42) 1,1-Dichloropropene	4.74	75	16047	9.4971	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	25073	9.0186	ppb	97
45) Carbon Tetrachloride	4.72	117	26078	10.4070	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	15910	15.7313	ppb	# 83
48) 1,2-DCA	5.05	62	23515	9.7836	ppb	# 90
49) Benzene	5.01	78	51802	8.7458	ppb	98
50) TCE	5.90	130	17133	9.0652	ppb	# 94

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

Data File : M:\LOKI\DATA\191023\1028L21.D
 Acq On : 28 Oct 19 19:39
 Sample : 191028B CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83310	134.0422	ppb	95
52) 1,2-Dichloropropane	6.17	63	12783	8.4996	ppb #	94
53) Bromodichloromethane	6.54	83	22535	9.5148	ppb	97
54) Methyl Cyclohexane	6.13	83	16362	10.4793	ppb	99
55) Dibromomethane	6.30	93	10647	9.1076	ppb	79
57) MIBK (methyl isobutyl ket	7.32	43	7486	9.4002	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	15842	8.5093	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	18959	9.8224	ppb	90
60) Toluene	7.45	91	58288	10.2823	ppb	99
61) Trans-1,3-Dichloropropene	7.74	75	19277	11.4410	ppb	92
62) 1,1,2-TCA	7.93	83	10993	9.0850	ppb	77
63) 2-Hexanone	8.27	43	3178	10.7315	ppb	88
66) 1,2-EDB	8.44	107	13540	8.8751	ppb	91
67) Tetrachloroethene	8.07	166	21414	9.3993	ppb	99
68) 1-Chlorohexane	9.05	91	14077	10.1074	ppb	97
69) 1,1,1,2-Tetrachloroethane	9.12	131	18987	9.1439	ppb	79
70) m&p-Xylene	9.30	91	92805	19.0120	ppb	97
71) o-Xylene	9.72	106	21712	9.5318	ppb	90
72) Styrene	9.74	104	36163	9.1942	ppb	98
74) 1,3-Dichloropropane	8.11	76	21445	8.9923	ppb	94
75) Dibromochloromethane	8.35	129	20662	9.2879	ppb	91
76) Chlorobenzene	9.02	112	43014	8.8502	ppb	90
77) Ethylbenzene	9.17	91	61177	10.6790	ppb	88
78) Bromoform	9.91	173	15931	9.8715	ppb	87
80) Isopropylbenzene	10.14	105	33584	9.7261	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	17696	8.0703	ppb	96
82) 1,2,3-Trichloropropane	10.50	110	6708	9.1866	ppb	85
83) t-1,4-Dichloro-2-Butene	10.54	53	2516	10.3016	ppb	99
84) Bromobenzene	10.43	156	20128	8.6327	ppb	95
85) n-Propylbenzene	10.59	91	64913	9.5926	ppb	100
86) 4-Ethyltoluene	10.72	105	55181	9.4197	ppb	97
87) 2-Chlorotoluene	10.65	91	25285	9.6063	ppb	86
88) 1,3,5-Trimethylbenzene	10.79	105	50444	9.0995	ppb	97
89) 4-Chlorotoluene	10.78	126	8793	8.7584	ppb	73
90) Tert-Butylbenzene	11.14	119	44230	10.2019	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	46611	9.4007	ppb	99
92) Sec-Butylbenzene	11.37	105	56484	9.6781	ppb	97
93) p-Isopropyltoluene	11.54	119	55321	9.3899	ppb	93
94) Benzyl Chloride	11.71	91	14358	9.5572	ppb	94
95) 1,3-DCB	11.46	146	35858	9.5104	ppb	97
96) 1,4-DCB	11.56	146	37897	8.3269	ppb	97
97) n-Butylbenzene	11.98	91	37242	9.7786	ppb	92
98) 1,2-DCB	11.95	146	34729	9.1653	ppb	94
99) Hexachloroethane	12.23	201	16278	13.6196	ppb #	83
100) 1,2-Dibromo-3-chloropropan	12.79	75	2822	9.9123	ppb #	74
101) 1,2,4-Trichlorobenzene	13.69	180	17087	13.9980	ppb	85
102) Hexachlorobutadiene	13.89	223	5178	15.4326	ppb #	73
103) Naphthalene	13.94	128	25906	14.6312	ppb	96
104) 1,2,3-Trichlorobenzene	14.20	182	7967	11.6233	ppb	90

(#) = qualifier out of range (m) = manual integration
 1028L21.D L1023W.M Tue Nov 19 11:00:27 2019

Quantitation Report

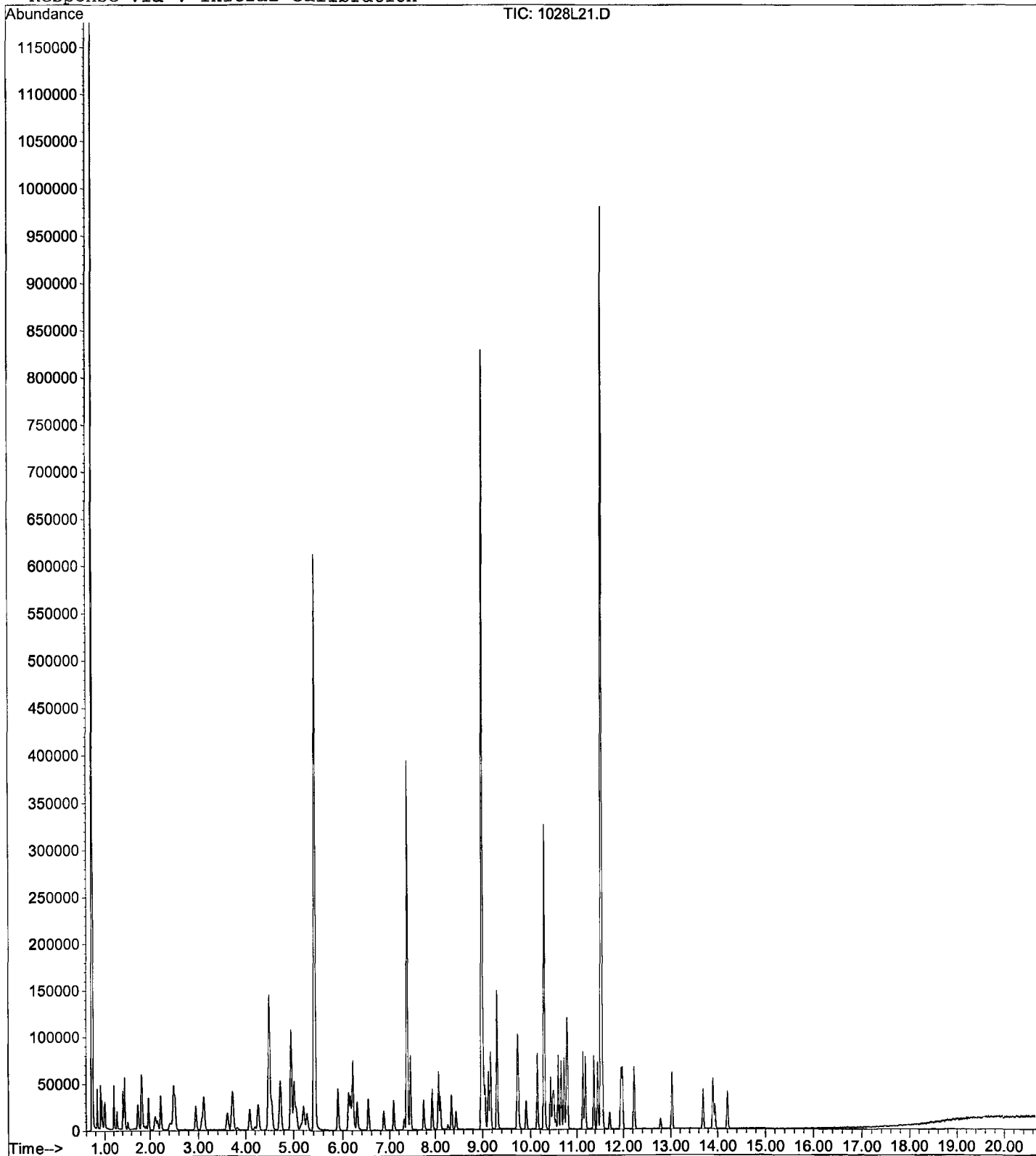
Data File : M:\LOKI\DATA\191023\1028L21.D
Acq On : 28 Oct 19 19:39
Sample : 191028B CCV 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1028L45.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0608	4.5	TML	6.5
3	TML	Freon 114	0.1338	0.1298	3.0	TML	17
4	TM**L	Chloromethane	0.2092	0.1374	34	TM**L	19
5	TM*	Vinyl chloride	0.1839	0.1310	29	TM*	
6	TML	Bromomethane	0.2799	0.1595	43	TML	29
7	TML	Chloroethane	0.1659	0.0857	48	TML	41
8	TM	Dichlorofluoromethane	0.3539	0.2396	32	TM	
9	TM	Trichlorofluoromethane	0.2108	0.1911	9.4	TM	
10	TM	Diethyl ether	0.0000	0.0198	0.00	TM	
11	TM	Acrolein	0.0184	0.0091	51	TM	*
12	TML	Acetone	0.0763	0.0513	33	TML	33
13	TM	Freon-113	0.1657	0.1299	22	TM	
14	TM*L	1,1-DCE	0.1612	0.1291	20	TM*L	11
15	TML	t-Butanol	0.0165	0.0098	41	TML	39
16	TM	2-Propanol	0.0000	0.0000	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0136	52	TM	*
18	TML	Methyl Acetate	0.1524	0.0745	51	TML	47
19	TML	Iodomethane	0.0834	0.0302	64	TML	62*
20	TML	Acrylonitrile	0.0844	0.0441	48	TML	53*
21	TML	Methylene chloride	0.2298	0.1468	36	TML	24
22	TML	Carbon disulfide	0.3814	0.2677	30	TML	16
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.2953	20	TM	
24	TML	Trans-1,2-DCE	0.1832	0.1468	20	TML	13
25	TM	Diisopropyl Ether	0.3399	0.3349	1.5	TM	
26	TM**	1,1-DCA	0.2649	0.2403	9.3	TM**	
27	TM	Vinyl Acetate	0.3399	0.3349	1.5	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1483	22	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0120	33	TML	19
30	TML	Cis-1,2-DCE	0.1575	0.1415	10	TML	1.6
31	TM	2,2-Dichloropropane	0.1929	0.1734	10	TM	
32	TM	3-Methylpentane	0.0000	0.0639	0.00	TM	
33	TM*	Chloroform	0.2786	0.2922	4.9	TM*	
34	TM	Bromochloromethane	0.0928	0.0912	1.8	TM	
35	S	Dibromofluoromethane(S)	0.3078	0.3061	0.56	S	
36	TM	1,1,1-TCA	0.2391	0.2743	15	TM	
37	TML	Cyclohexane	0.0941	0.0806	14	TML	4.7
38	TM	1,1-Dichloropropene	0.1428	0.1530	7.2	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2354	0.22	TM	
40	S	1,2-DCA-D4(S)	0.3307	0.3722	13	S	

Average

21.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1028L45.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TM	Carbon Tetrachloride	0.2117	0.2540	20	TM	
42	TM	Tert Amyl Methyl Ether	0.0855	0.1136	33	TM	
43	TM	Methylcyclopentane	0.0000	0.0091	0.00	TM	
44	TM	1,2-DCA	0.2031	0.2172	6.9	TM	
45	TM	Benzene	0.5005	0.4875	2.6	TM	
46	TM	TCE	0.1597	0.1708	7.0	TM	
47	TM	2-Pentanone	0.0525	0.0441	16	TM	
48	TM*	1,2-Dichloropropane	0.1271	0.1176	7.5	TM*	
49	TM	Bromodichloromethane	0.2001	0.2070	3.4	TM	
50	TM	Methyl Cyclohexane	0.1319	0.1509	14	TM	
51	TM	Dibromomethane	0.0988	0.0936	5.3	TM	
52	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0572	17	TML	15
53	TM	1-Bromo-2-chloroethane	0.1573	0.1513	3.8	TM	
54	TM	Cis-1,3-Dichloropropene	0.1631	0.1722	5.6	TM	
55	TM*	Toluene	0.4790	0.5740	20	TM*	
56	TM	Trans-1,3-Dichloropropene	0.1424	0.1646	16	TM	
57	TM	1,1,2-TCA	0.1022	0.0976	4.5	TM	
58	TML	2-Hexanone	0.0269	0.0216	20	TML	12
59	I	Chlorobenzene-D5 (IS)	ISTD			I	
60	S	Toluene-D8(S)	0.9097	0.9922	9.1	S	
61	TM	1,2-EDB	0.1292	0.1261	2.4	TM	
62	TM	Tetrachloroethene	0.1930	0.2075	7.5	TM	
63	TM	1-Chlorohexane	0.1180	0.1304	11	TM	
64	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1890	0.90	TML	9.1
65	TML	m&p-Xylene	0.3768	0.4344	15	TML	3.9
66	TM	o-Xylene	0.1930	0.2033	5.4	TM	
67	TML	Styrene	0.2916	0.3280	12	TML	2.7
68	S	4-Bromofluorobenzene(S)	0.3222	0.3670	14	S	
69	TM	1,3-Dichloropropane	0.2020	0.1839	9.0	TM	
70	TM	Dibromochloromethane	0.1885	0.1768	6.2	TM	
71	TM**	Chlorobenzene	0.4117	0.4104	0.33	TM**	
72	TM*	Ethylbenzene	0.4853	0.5811	20	TM*	
73	TM**	Bromoform	0.1367	0.1460	6.8	TM**	
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
75	TM	Isopropylbenzene	0.5206	0.5881	13	TM	
76	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2611	28	TM**L	22
77	TML	1,2,3-Trichloropropane	0.1211	0.1045	14	TML	4.9
78	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0278	25	TM	
79	TM	Bromobenzene	0.3515	0.3347	4.8	TM	
80	TML	n-Propylbenzene	0.9036	1.011	12	TML	1.1

Average

11.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1028L45.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	4-Ethyltoluene	0.7832	0.8650	10	TML	2.5
82	TM	2-Chlorotoluene	0.3968	0.4075	2.7	TM	
83	TML	1,3,5-Trimethylbenzene	0.7524	0.8764	16	TML	3.8
84	TM	4-Chlorotoluene	0.1514	0.1469	2.9	TM	
85	TM	Tert-Butylbenzene	0.6536	0.8295	27	TM	
86	TML	1,2,4-Trimethylbenzene	0.6824	0.7723	13	TML	2.0
87	TM	Sec-Butylbenzene	0.8799	0.9736	11	TM	
88	TM	p-Isopropyltoluene	0.8882	0.9198	3.6	TM	
89	TM	Benzyl Chloride	0.2265	0.1615	29	TM	
90	TM	1,3-DCB	0.5684	0.6064	6.7	TM	
91	TM	1,4-DCB	0.6861	0.6452	6.0	TM	
92	TM	n-Butylbenzene	0.5742	0.6286	9.5	TM	
93	TM	1,2-DCB	0.5713	0.5738	0.45	TM	
94	TML	Hexachloroethane	0.1724	0.2617	52	TML	45
95	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0409	13	TML	4.5
96	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2673	45	TMQ	45
97	TML	Hexachlorobutadiene	0.0602	0.0825	37	TML	63*
98	TMQ	Naphthalene	0.2958	0.3091	4.5	TMQ	20
99	TML	1,2,3-Trichlorobenzene	0.1086	0.1149	5.8	TML	12
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

15.5

Data File : M:\LOKI\DATA\191023\1028L45.D
 Acq On : 29 Oct 19 7:01
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 45
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	282752	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	277184	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	157696	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86542	24.8594	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.436%	
44) 1,2-DCA-D4(S)	4.95	65	105227	28.1323	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.528%	
65) Toluene-D8(S)	7.38	98	275013	27.2676	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.072%	
73) 4-Bromofluorobenzene(S)	10.28	95	101727	28.4761	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.904%	
Target Compounds						
3) Dichlorodifluoromethane	0.84	87	6873	10.6542	ppb	85
4) Freon 114	0.91	85	14685	11.7234	ppb	98
5) Chloromethane	0.94	50	15543	8.0504	ppb	94
6) Vinyl chloride	1.01	62	14811	7.1205	ppb	90
8) Bromomethane	1.21	94	18044	7.1169	ppb	97
9) Chloroethane	1.27	64	9697	5.8558	ppb	96
10) Dichlorofluoromethane	1.41	67	27103	6.7707	ppb	95
11) Trichlorofluoromethane	1.45	103	21609	9.0645	ppb	95
13) Acrolein	1.74	56	12849	61.7075	ppb	# 91
14) Acetone	1.88	43	5798	6.6699	ppb	# 84
15) Freon-113	1.83	101	14687	7.8354	ppb	97
16) 1,1-DCE	1.82	96	14606	8.8994	ppb	96
17) t-Butanol	2.45	59	13812	76.8048	ppb	# 80
19) Acetonitrile	2.11	41	19279	60.5905	ppb	89
20) Methyl Acetate	2.16	43	8431	5.2783	ppb	97
21) Iodomethane	1.92	142	3418	3.8283	ppb	# 85
22) Acrylonitrile	2.47	53	4988	4.6717	ppb	84
23) Methylene chloride	2.23	84	16605	7.6402	ppb	96
24) Carbon disulfide	1.97	76	30272	8.4365	ppb	# 91
25) Methyl t-butyl ether (MtBE)	2.52	73	33393	7.9795	ppb	92
26) Trans-1,2-DCE	2.49	96	16600	8.7364	ppb	89
27) Diisopropyl Ether	3.11	45	37875	9.8528	ppb	# 87
29) 1,1-DCA	2.95	63	27173	9.0705	ppb	# 88
30) Vinyl Acetate	3.11	45	37875	9.8528	ppb	# 87
31) Ethyl tert Butyl Ether	3.61	59	16776	12.2202	ppb	91
32) MEK (2-Butanone)	3.83	43	1352	8.1148	ppb	# 67
33) Cis-1,2-DCE	3.73	96	16001	9.8391	ppb	96
34) 2,2-Dichloropropane	3.71	77	19614	8.9914	ppb	95
37) Chloroform	4.27	83	33052	10.4907	ppb	91
38) Bromochloromethane	4.09	128	10311	9.8244	ppb	75
40) 1,1,1-TCA	4.48	97	31029	11.4733	ppb	96
41) Cyclohexane	4.55	41	9112	9.5287	ppb	# 77
42) 1,1-Dichloropropene	4.74	75	17303	10.7156	ppb	92
43) 2,2,4-Trimethylpentane	5.20	57	26627	10.0220	ppb	86
45) Carbon Tetrachloride	4.72	117	28729	11.9969	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	12849	13.2942	ppb	# 88
48) 1,2-DCA	5.05	62	24564	10.6943	ppb	92
49) Benzene	5.01	78	55136	9.7407	ppb	98
50) TCE	5.90	130	19317	10.6951	ppb	# 92

(#) = qualifier out of range (m) = manual integration
 1028L45.D L1023W.M Tue Nov 19 11:00:35 2019

Data File : M:\LOKI\DATA\191023\1028L45.D
 Acq On : 29 Oct 19 7:01
 Sample : Ending CCV 10ug/L 10/28/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 45
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	62412	105.0777	ppb	94
52) 1,2-Dichloropropane	6.17	63	13298	9.2523	ppb	100
53) Bromodichloromethane	6.54	83	23410	10.3429	ppb	87
54) Methyl Cyclohexane	6.12	83	17068	11.4387	ppb	95
55) Dibromomethane	6.30	93	10581	9.4711	ppb	82
57) MIBK (methyl isobutyl ket	7.31	43	6470	8.4965	ppb #	86
58) 1-Bromo-2-chloroethane	6.87	63	17112	9.6180	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	19471	10.5557	ppb	96
60) Toluene	7.45	91	64919	11.9834	ppb	95
61) Trans-1,3-Dichloropropene	7.75	75	18621	11.5645	ppb	97
62) 1,1,2-TCA	7.93	83	11041	9.5480	ppb	86
63) 2-Hexanone	8.27	43	2442	8.8069	ppb #	82
66) 1,2-EDB	8.45	107	13980	9.7559	ppb #	81
67) Tetrachloroethene	8.07	166	23003	10.7495	ppb	97
68) 1-Chlorohexane	9.05	91	14456	11.0506	ppb	98
69) 1,1,1,2-Tetrachloroethane	9.12	131	20951	10.9101	ppb	95
70) m&p-Xylene	9.30	91	96333	20.7814	ppb	98
71) o-Xylene	9.72	106	22540	10.5350	ppb	82
72) Styrene	9.74	104	36364	9.7344	ppb	100
74) 1,3-Dichloropropane	8.11	76	20385	9.1004	ppb	96
75) Dibromochloromethane	8.35	129	19605	9.3825	ppb	95
76) Chlorobenzene	9.01	112	45498	9.9665	ppb	91
77) Ethylbenzene	9.17	91	64427	11.9733	ppb	96
78) Bromoform	9.91	173	16184	10.6765	ppb	89
80) Isopropylbenzene	10.15	105	37096	11.2970	ppb	94
81) 1,1,2,2-Tetrachloroethane	10.47	83	16470	7.8394	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	6593	9.5073	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	1751	7.5389	ppb	84
84) Bromobenzene	10.43	156	21110	9.5206	ppb	94
85) n-Propylbenzene	10.59	91	63801	9.8904	ppb	98
86) 4-Ethyltoluene	10.72	105	54565	9.7518	ppb	96
87) 2-Chlorotoluene	10.65	91	25704	10.2688	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	55281	10.3790	ppb	93
89) 4-Chlorotoluene	10.78	126	9266	9.7052	ppb	78
90) Tert-Butylbenzene	11.14	119	52321	12.6901	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	48714	10.2010	ppb	99
92) Sec-Butylbenzene	11.37	105	61416	11.0656	ppb	99
93) p-Isopropyltoluene	11.54	119	58019	10.3554	ppb	93
94) Benzyl Chloride	11.72	91	10188	7.1310	ppb	97
95) 1,3-DCB	11.46	146	38249	10.6674	ppb	96
96) 1,4-DCB	11.56	146	40701	9.4040	ppb	98
97) n-Butylbenzene	11.98	91	39648	10.9469	ppb	99
98) 1,2-DCB	11.95	146	36195	10.0445	ppb	95
99) Hexachloroethane	12.23	201	16507	14.4638	ppb #	82
100) 1,2-Dibromo-3-chloropropan	12.78	75	2583	9.5498	ppb #	61
101) 1,2,4-Trichlorobenzene	13.69	180	16863	14.4655	ppb	89
102) Hexachlorobutadiene	13.90	223	5207	16.2513	ppb	79
103) Naphthalene	13.94	128	19496	11.9975	ppb	91
104) 1,2,3-Trichlorobenzene	14.21	182	7245	11.2360	ppb #	85

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

1028L45.D L1023W.M Tue Nov 19 11:00:35 2019

Quantitation Report

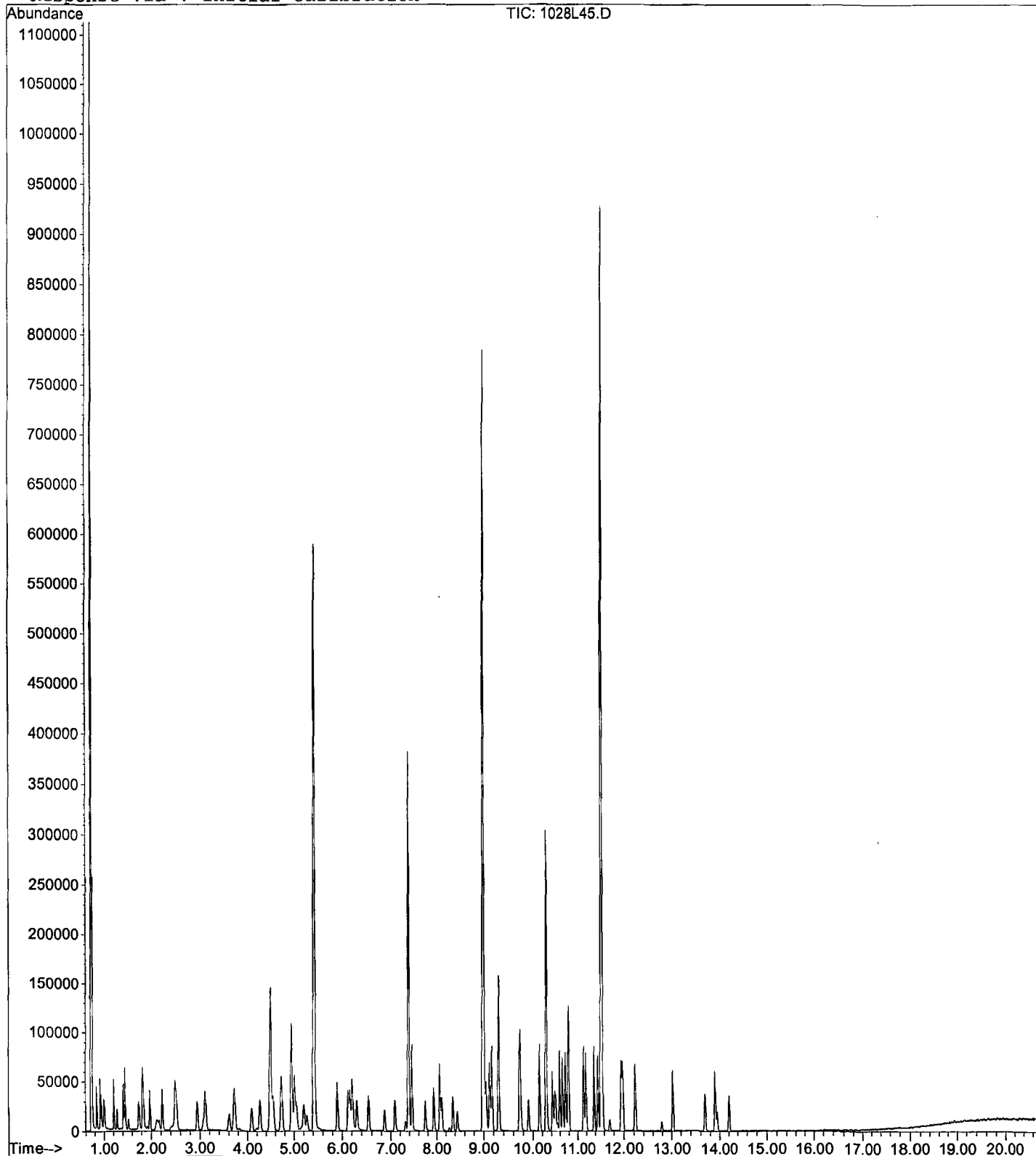
Data File : M:\LOKI\DATA\191023\1028L45.D
Acq On : 29 Oct 19 7:01
Sample : Ending CCV 10ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 45
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:58 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/19

Data File: 1030L18.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0557	12	TML	2.2
3	TML	Freon 114	0.1338	0.1217	9.0	TML	9.0
4	TM**L	Chloromethane	0.2092	0.1127	46	TM**L	35 *
5	TM*	Vinyl chloride	0.1839	0.1199	35	TM*	*
6	TML	Bromomethane	0.2799	0.1592	43	TML	29 *
7	TML	Chloroethane	0.1659	0.0793	52	TML	46 *
8	TM	Dichlorofluoromethane	0.3539	0.2405	32	TM	*
9	TM	Trichlorofluoromethane	0.2108	0.1864	12	TM	
10	TM	Diethyl ether	0.0000	0.0206	0.00	TM	
11	TM	Acrolein	0.0184	0.0093	50	TM	*
12	TML	Acetone	0.0763	0.0443	42	TML	49 *
13	TM	Freon-113	0.1657	0.1235	25	TM	*
14	TM*L	1,1-DCE	0.1612	0.1226	24	TM*L	16
15	TML	t-Butanol	0.0165	0.0118	28	TML	26 *
16	TM	2-Propanol	0.0000	0.0001	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0136	52	TM	*
18	TML	Methyl Acetate	0.1524	0.0928	39	TML	33 *
19	TML	Iodomethane	0.0834	0.0234	72	TML	67 *
20	TML	Acrylonitrile	0.0844	0.0503	40	TML	43 *
21	TML	Methylene chloride	0.2298	0.1419	38	TML	27 *
22	TML	Carbon disulfide	0.3814	0.2477	35	TML	22 *
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3100	16	TM	
24	TML	Trans-1,2-DCE	0.1832	0.1351	26	TML	20
25	TM	Diisopropyl Ether	0.3399	0.2800	18	TM	
26	TM**	1,1-DCA	0.2649	0.2334	12	TM**	
27	TM	Vinyl Acetate	0.3399	0.2800	18	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1486	22	TM	*
29	TML	MEK (2-Butanone)	0.0179	0.0130	27	TML	12
30	TML	Cis-1,2-DCE	0.1575	0.1422	9.7	TML	1.0
31	TM	2,2-Dichloropropane	0.1929	0.1730	10	TM	
32	TM	2-Methylpentane	0.0000	0.0027	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0563	0.00	TM	
34	TM*	Chloroform	0.2786	0.2730	2.0	TM*	
35	TM	Bromochloromethane	0.0928	0.0923	0.55	TM	
36	S	Dibromofluoromethane(S)	0.3078	0.3091	0.42	S	
37	TM	1,1,1-TCA	0.2391	0.2578	7.8	TM	
38	TML	Cyclohexane	0.0941	0.0740	21	TML	12
39	TM	1,1-Dichloropropene	0.1428	0.1377	3.5	TM	
40	TM	2,2,4-Trimethylpentane	0.2349	0.2228	5.2	TM	

Average

22.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/19

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/19

Data File: 1030L18.D

		Compound	MEAN	CCRF	%D	%Drift
41	S	1,2-DCA-D4(S)	0.3307	0.3702	12	S
42	TM	Carbon Tetrachloride	0.2117	0.2462	16	TM
43	TM	Tert Amyl Methyl Ether	0.0855	0.1189	39	TM
44	TM	Methylcyclopentane	0.0000	0.0108	0.00	TM
45	TM	1,2-DCA	0.2031	0.2156	6.1	TM
46	TM	Benzene	0.5005	0.4738	5.3	TM
47	TM	TCE	0.1597	0.1648	3.2	TM
48	TM	2-Pentanone	0.0525	0.0494	5.9	TM
49	TM*	1,2-Dichloropropane	0.1271	0.1131	11	TM*
50	TM	Bromodichloromethane	0.2001	0.2181	9.0	TM
51	TM	Methyl Cyclohexane	0.1319	0.1417	7.4	TM
52	TM	Dibromomethane	0.0988	0.0919	7.0	TM
53	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0677	1.2	TML 0.69
54	TM	1-Bromo-2-chloroethane	0.1573	0.1520	3.4	TM
55	TM	Cis-1,3-Dichloropropene	0.1631	0.1668	2.3	TM
56	TM*	Toluene	0.4790	0.5339	11	TM*
57	TM	Trans-1,3-Dichloropropene	0.1424	0.1641	15	TM
58	TM	1,1,2-TCA	0.1022	0.0958	6.3	TM
59	TML	2-Hexanone	0.0269	0.0224	17	TML 8.9
60	I	Chlorobenzene-D5 (IS)	ISTD			I
61	S	Toluene-D8(S)	0.9097	0.9986	9.8	S
62	TM	1,2-EDB	0.1292	0.1157	10	TM
63	TM	Tetrachloroethene	0.1930	0.1912	0.94	TM
64	TM	1-Chlorohexane	0.1180	0.1246	5.6	TM
65	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1846	3.2	TML 6.3
66	TML	m&p-Xylene	0.3768	0.4214	12	TML 1.1
67	TM	o-Xylene	0.1930	0.1931	0.05	TM
68	TML	Styrene	0.2916	0.3245	11	TML 3.5
69	S	4-Bromofluorobenzene(S)	0.3222	0.3571	11	S
70	TM	1,3-Dichloropropane	0.2020	0.1940	4.0	TM
71	TM	Dibromochloromethane	0.1885	0.1861	1.3	TM
72	TM**	Chlorobenzene	0.4117	0.3908	5.1	TM**
73	TM*	Ethylbenzene	0.4853	0.5392	11	TM*
74	TM**	Bromoform	0.1367	0.1495	9.4	TM**
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
76	TM	Isopropylbenzene	0.5206	0.5504	5.7	TM
77	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2665	27	TM**L 19
78	TML	1,2,3-Trichloropropane	0.1211	0.0998	18	TML 9.4
79	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0356	3.4	TM
80	TM	Bromobenzene	0.3515	0.3324	5.4	TM

Average

8.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1030L18.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TML	n-Propylbenzene	0.9036	0.9829	8.8	TML	3.7
82	TML	4-Ethyltoluene	0.7832	0.8680	11	TML	2.2
83	TM	2-Chlorotoluene	0.3968	0.4056	2.2	TM	
84	TML	1,3,5-Trimethylbenzene	0.7524	0.8461	12	TML	0.45
85	TM	4-Chlorotoluene	0.1514	0.1410	6.9	TM	
86	TM	Tert-Butylbenzene	0.6536	0.7037	7.7	TM	
87	TML	1,2,4-Trimethylbenzene	0.6824	0.7446	9.1	TML	1.2
88	TM	Sec-Butylbenzene	0.8799	0.9332	6.1	TM	
89	TM	p-Isopropyltoluene	0.8882	0.8819	0.72	TM	
90	TM	Benzyl Chloride	0.2265	0.1814	20	TM	
91	TM	1,3-DCB	0.5684	0.5738	0.95	TM	
92	TM	1,4-DCB	0.6861	0.5854	15	TM	
93	TM	n-Butylbenzene	0.5742	0.5753	0.19	TM	
94	TM	1,2-DCB	0.5713	0.5623	1.6	TM	
95	TML	Hexachloroethane	0.1724	0.2521	46	TML	40 *
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0472	0.09	TML	9.7
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2732	48	TMQ	47 *
98	TML	Hexachlorobutadiene	0.0602	0.0830	38	TML	63 *
99	TMQ	Naphthalene	0.2958	0.3275	11	TMQ	26 *
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1218	12	TML	17
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

12.9

Data File : M:\LOKI\DATA\191023\1030L18.D
 Acq On : 30 Oct 19 22:00
 Sample : 191030 CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	285632	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	281344	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	157696	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	88285	25.1044	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 100.416%	
44) 1,2-DCA-D4(S)	4.95	65	105727	27.9810	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 111.924%	
65) Toluene-D8(S)	7.38	98	280948	27.4442	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 109.776%	
73) 4-Bromofluorobenzene(S)	10.28	95	100478	27.7106	ppb	0.00
Spiked Amount				25.000		
				Recovery	= 110.844%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	0.83	87	6367	9.7753	ppb	89
4) Freon 114	0.91	85	13907	10.8958	ppb	94
5) Chloromethane	0.94	50	12872	6.4955	ppb	100
6) Vinyl chloride	1.01	62	13701	6.5204	ppb	95
8) Bromomethane	1.21	94	18185	7.0992	ppb	97
9) Chloroethane	1.27	64	9055	5.3955	ppb	98
10) Dichlorofluoromethane	1.41	67	27479	6.7954	ppb	93
11) Trichlorofluoromethane	1.45	103	21295	8.8427	ppb	93
13) Acrolein	1.74	56	13228	62.8871	ppb	# 85
14) Acetone	1.88	43	5059	5.1259	ppb	89
15) Freon-113	1.83	101	14112	7.4527	ppb	91
16) 1,1-DCE	1.82	96	14006	8.3914	ppb	95
17) t-Butanol	2.40	59	16870	92.6161	ppb	93
19) Acetonitrile	2.10	41	19442	60.4867	ppb	97
20) Methyl Acetate	2.16	43	10600	6.7339	ppb	92
21) Iodomethane	1.92	142	2669	3.3480	ppb	# 57
22) Acrylonitrile	2.47	53	5746	5.6984	ppb	88
23) Methylene chloride	2.23	84	16211	7.3225	ppb	96
24) Carbon disulfide	1.97	76	28304	7.7841	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	35417	8.3778	ppb	# 90
26) Trans-1,2-DCE	2.49	96	15433	7.9675	ppb	96
27) Diisopropyl Ether	3.11	45	31989	8.2377	ppb	# 81
29) 1,1-DCA	2.95	63	26669	8.8125	ppb	92
30) Vinyl Acetate	3.11	45	31989	8.2377	ppb	# 81
31) Ethyl tert Butyl Ether	3.60	59	16975	12.2405	ppb	# 86
32) MEK (2-Butanone)	3.82	43	1490	8.7891	ppb	# 81
33) Cis-1,2-DCE	3.72	96	16252	9.8958	ppb	95
34) 2,2-Dichloropropane	3.71	77	19769	8.9711	ppb	94
37) Chloroform	4.27	83	31189	9.7996	ppb	91
38) Bromochloromethane	4.09	128	10544	9.9451	ppb	88
40) 1,1,1-TCA	4.48	97	29457	10.7822	ppb	99
41) Cyclohexane	4.55	41	8460	8.7649	ppb	87
42) 1,1-Dichloropropene	4.74	75	15733	9.6450	ppb	96
43) 2,2,4-Trimethylpentane	5.20	57	25454	9.4839	ppb	88
45) Carbon Tetrachloride	4.72	117	28134	11.6299	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	13585	13.9140	ppb	# 85
48) 1,2-DCA	5.05	62	24628	10.6140	ppb	97
49) Benzene	5.01	78	54132	9.4669	ppb	97
50) TCE	5.90	130	18831	10.3209	ppb	# 94

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

Data File : M:\LOKI\DATA\191023\1030L18.D
 Acq On : 30 Oct 19 22:00
 Sample : 191030 CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	70543	117.5697	ppb	94
52) 1,2-Dichloropropane	6.16	63	12926	8.9028	ppb	100
53) Bromodichloromethane	6.54	83	24918	10.8981	ppb	100
54) Methyl Cyclohexane	6.13	83	16188	10.7396	ppb	83
55) Dibromomethane	6.30	93	10499	9.3030	ppb	85
57) MIBK (methyl isobutyl ket	7.31	43	7738	10.0686	ppb	# 93
58) 1-Bromo-2-chloroethane	6.87	63	17367	9.6629	ppb	97
59) Cis-1,3-Dichloropropene	7.08	75	19055	10.2260	ppb	88
60) Toluene	7.45	91	60999	11.1463	ppb	100
61) Trans-1,3-Dichloropropene	7.75	75	18747	11.5253	ppb	95
62) 1,1,2-TCA	7.93	83	10946	9.3704	ppb	87
63) 2-Hexanone	8.26	43	2563	9.1147	ppb	89
66) 1,2-EDB	8.44	107	13020	8.9517	ppb	# 80
67) Tetrachloroethene	8.07	166	21516	9.9060	ppb	92
68) 1-Chlorohexane	9.05	91	14022	10.5603	ppb	92
69) 1,1,1,2-Tetrachloroethane	9.12	131	20772	10.6347	ppb	94
70) m&p-Xylene	9.30	91	94838	20.2219	ppb	99
71) o-Xylene	9.72	106	21728	10.0054	ppb	95
72) Styrene	9.74	104	36521	9.6481	ppb	92
74) 1,3-Dichloropropane	8.11	76	21831	9.6019	ppb	100
75) Dibromochloromethane	8.35	129	20939	9.8727	ppb	94
76) Chlorobenzene	9.01	112	43982	9.4920	ppb	88
77) Ethylbenzene	9.17	91	60682	11.1106	ppb	93
78) Bromoform	9.91	173	16827	10.9366	ppb	92
80) Isopropylbenzene	10.14	105	34720	10.5734	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	16809	8.0577	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	6294	9.0588	ppb	97
83) t-1,4-Dichloro-2-Butene	10.54	53	2244	9.6615	ppb	95
84) Bromobenzene	10.42	156	20970	9.4574	ppb	99
85) n-Propylbenzene	10.59	91	61999	9.6311	ppb	97
86) 4-Ethyltoluene	10.72	105	54752	9.7815	ppb	95
87) 2-Chlorotoluene	10.65	91	25584	10.2209	ppb	86
88) 1,3,5-Trimethylbenzene	10.79	105	53371	10.0446	ppb	95
89) 4-Chlorotoluene	10.78	126	8893	9.3145	ppb	86
90) Tert-Butylbenzene	11.14	119	44389	10.7663	ppb	99
91) 1,2,4-Trimethylbenzene	11.18	105	46968	9.8825	ppb	99
92) Sec-Butylbenzene	11.37	105	58866	10.6061	ppb	97
93) p-Isopropyltoluene	11.54	119	55626	9.9283	ppb	94
94) Benzyl Chloride	11.71	91	11445	8.0109	ppb	99
95) 1,3-DCB	11.46	146	36196	10.0948	ppb	93
96) 1,4-DCB	11.56	146	36924	8.5313	ppb	97
97) n-Butylbenzene	11.98	91	36286	10.0187	ppb	92
98) 1,2-DCB	11.95	146	35469	9.8431	ppb	93
99) Hexachloroethane	12.22	201	15903	13.9672	ppb	88
100) 1,2-Dibromo-3-chloropropan	12.78	75	2978	10.9721	ppb	# 82
101) 1,2,4-Trichlorobenzene	13.69	180	17234	14.7469	ppb	78
102) Hexachlorobutadiene	13.90	223	5233	16.3265	ppb	# 70
103) Naphthalene	13.94	128	20656	12.6030	ppb	98
104) 1,2,3-Trichlorobenzene	14.21	182	7681	11.7453	ppb	97

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

1030L18.D L1023W.M Tue Nov 19 11:00:38 2019

Page 2

Quantitation Report

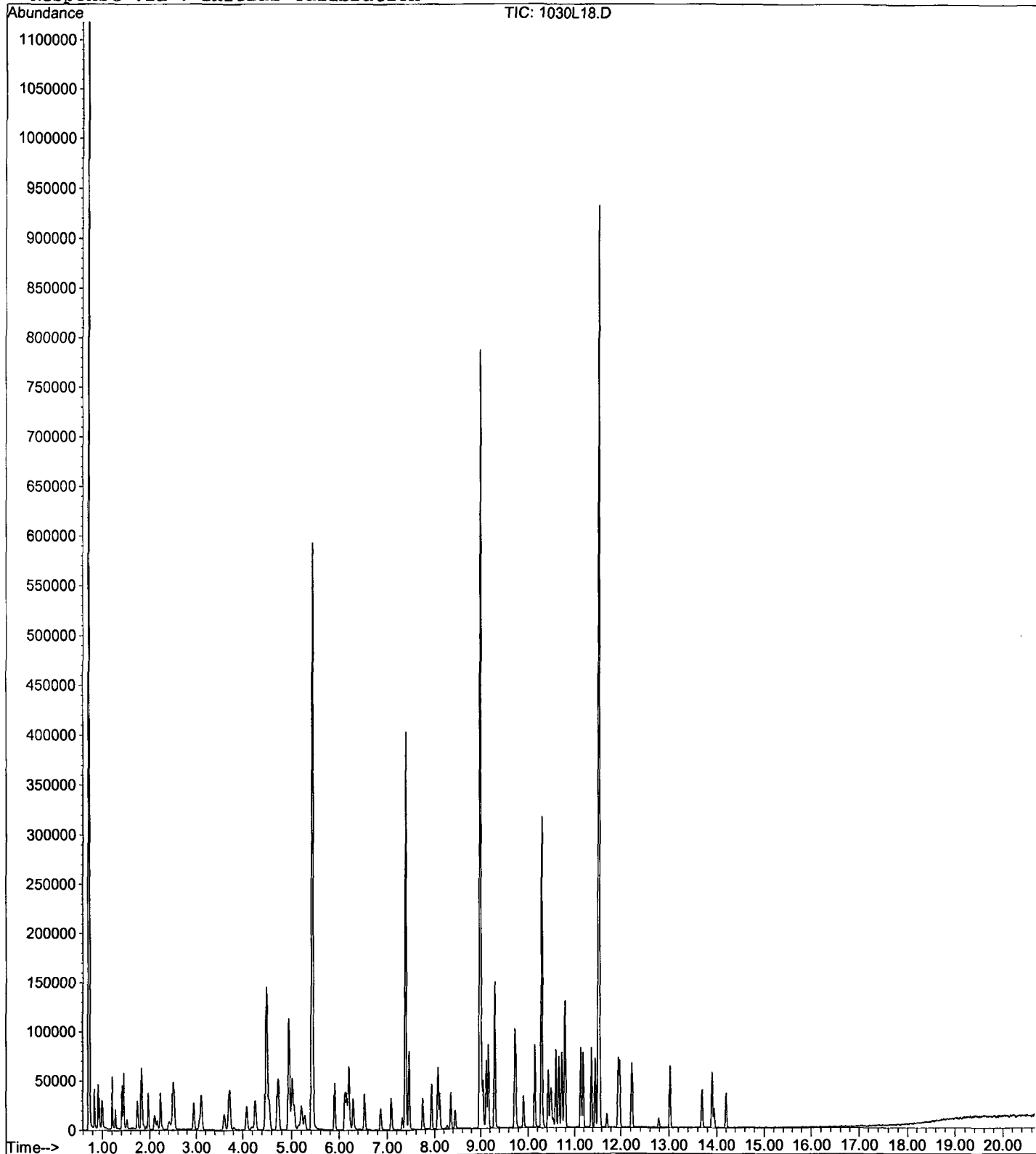
Data File : M:\LOKI\DATA\191023\1030L18.D
Acq On : 30 Oct 19 22:00
Sample : 191030 CCV 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 18
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/19

Data File: 1030L42.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0489	23	TML	14
3	TML	Freon 114	0.1338	0.1117	17	TML	1.2
4	TM**L	Chloromethane	0.2092	0.1035	51	TM**L	41
5	TM*	Vinyl chloride	0.1839	0.1173	36	TM*	
6	TML	Bromomethane	0.2799	0.1202	57	TML	47
7	TML	Chloroethane	0.1659	0.0735	56	TML	50
8	TM	Dichlorofluoromethane	0.3539	0.2309	35	TM	
9	TM	Trichlorofluoromethane	0.2108	0.1783	15	TM	
10	TM	Diethyl ether	0.0000	0.0209	0.00	TM	
11	TM	Acrolein	0.0184	0.0081	56	TM	*
12	TML	Acetone	0.0763	0.0410	46	TML	56*
13	TM	Freon-113	0.1657	0.1079	35	TM	
14	TM*L	1,1-DCE	0.1612	0.1145	29	TM*L	22
15	TML	t-Butanol	0.0165	0.0104	37	TML	35
16	TM	2-Propanol	0.0000	0.0000	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0137	51	TM	*
18	TML	Methyl Acetate	0.1524	0.0754	51	TML	47
19	TML	Iodomethane	0.0834	0.0069	92	TML	78*
20	TML	Acrylonitrile	0.0844	0.0454	46	TML	51*
21	TML	Methylene chloride	0.2298	0.1445	37	TML	25
22	TML	Carbon disulfide	0.3814	0.2305	40	TML	28
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3043	18	TM	
24	TML	Trans-1,2-DCE	0.1832	0.1267	31	TML	26
25	TM	Diisopropyl Ether	0.3399	0.2961	13	TM	
26	TM**	1,1-DCA	0.2649	0.2268	14	TM**	
27	TM	Vinyl Acetate	0.3399	0.2961	13	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1582	30	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0093	48	TML	35
30	TML	Cis-1,2-DCE	0.1575	0.1370	13	TML	4.9
31	TM	2,2-Dichloropropane	0.1929	0.1527	21	TM	
32	TM	3-Methylpentane	0.0000	0.0651	0.00	TM	
33	TM*	Chloroform	0.2786	0.2587	7.1	TM*	
34	TM	Bromochloromethane	0.0928	0.0759	18	TM	
35	S	Dibromofluoromethane(S)	0.3078	0.2899	5.8	S	
36	TM	1,1,1-TCA	0.2391	0.2485	3.9	TM	
37	TML	Cyclohexane	0.0941	0.0698	26	TML	17
38	TM	1,1-Dichloropropene	0.1428	0.1438	0.72	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2055	13	TM	
40	S	1,2-DCA-D4(S)	0.3307	0.3552	7.4	S	

Average

28.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1030L42.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Carbon Tetrachloride	0.2117	0.2407	14	TM
42	TM	Tert Amyl Methyl Ether	0.0855	0.1172	37	TM
43	TM	Methylcyclopentane	0.0000	0.0111	0.00	TM
44	TM	1,2-DCA	0.2031	0.2095	3.2	TM
45	TM	Benzene	0.5005	0.4676	6.6	TM
46	TM	TCE	0.1597	0.1613	1.0	TM
47	TM	2-Pentanone	0.0525	0.0464	12	TM
48	TM*	1,2-Dichloropropane	0.1271	0.1149	9.6	TM*
49	TM	Bromodichloromethane	0.2001	0.2070	3.4	TM
50	TM	Methyl Cyclohexane	0.1319	0.1504	14	TM
51	TM	Dibromomethane	0.0988	0.0887	10	TM
52	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0641	6.5	TML 4.7
53	TM	1-Bromo-2-chloroethane	0.1573	0.1417	9.9	TM
54	TM	Cis-1,3-Dichloropropene	0.1631	0.1746	7.1	TM
55	TM*	Toluene	0.4790	0.5439	14	TM*
56	TM	Trans-1,3-Dichloropropene	0.1424	0.1589	12	TM
57	TM	1,1,2-TCA	0.1022	0.0951	7.0	TM
58	TML	2-Hexanone	0.0269	0.0239	11	TML 3.4
59	I	Chlorobenzene-D5 (IS)	ISTD			I
60	S	Toluene-D8(S)	0.9097	0.9897	8.8	S
61	TM	1,2-EDB	0.1292	0.1170	9.5	TM
62	TM	Tetrachloroethene	0.1930	0.2018	4.6	TM
63	TM	1-Chlorohexane	0.1180	0.1335	13	TM
64	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1752	8.1	TML 0.42
65	TML	m&p-Xylene	0.3768	0.4518	20	TML 7.6
66	TM	o-Xylene	0.1930	0.2115	9.6	TM
67	TML	Styrene	0.2916	0.3718	27	TML 8.3
68	S	4-Bromofluorobenzene(S)	0.3222	0.3708	15	S
69	TM	1,3-Dichloropropane	0.2020	0.1890	6.5	TM
70	TM	Dibromochloromethane	0.1885	0.1841	2.3	TM
71	TM**	Chlorobenzene	0.4117	0.3997	2.9	TM**
72	TM*	Ethylbenzene	0.4853	0.5797	19	TM*
73	TM**	Bromoform	0.1367	0.1420	3.9	TM**
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
75	TM	Isopropylbenzene	0.5206	0.5931	14	TM
76	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2387	34	TM**L 31
77	TML	1,2,3-Trichloropropane	0.1211	0.0907	25	TML 18
78	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0330	10	TM
79	TM	Bromobenzene	0.3515	0.3433	2.3	TM
80	TML	n-Propylbenzene	0.9036	1.051	16	TML 2.5

Average

11.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/19
Instrument: Loki
Cal. Date: 10/23/19
Data File: 1030L42.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	4-Ethyltoluene	0.7832	0.9298	19	TML	4.0
82	TM	2-Chlorotoluene	0.3968	0.4183	5.4	TM	
83	TML	1,3,5-Trimethylbenzene	0.7524	0.8541	14	TML	1.3
84	TM	4-Chlorotoluene	0.1514	0.1411	6.8	TM	
85	TM	Tert-Butylbenzene	0.6536	0.7213	10	TM	
86	TML	1,2,4-Trimethylbenzene	0.6824	0.7914	16	TML	4.2
87	TM	Sec-Butylbenzene	0.8799	0.9880	12	TM	
88	TM	p-Isopropyltoluene	0.8882	0.9129	2.8	TM	
89	TM	Benzyl Chloride	0.2265	0.1539	32	TM	
90	TM	1,3-DCB	0.5684	0.5938	4.5	TM	
91	TM	1,4-DCB	0.6861	0.6172	10	TM	
92	TM	n-Butylbenzene	0.5742	0.7694	34	TM	
93	TM	1,2-DCB	0.5713	0.5618	1.7	TM	
94	TML	Hexachloroethane	0.1724	0.2376	38	TML	32
95	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0488	3.4	TML	13
96	TMQ	1,2,4-Trichlorobenzene	0.1848	0.3042	65	TMQ	62*
97	TML	Hexachlorobutadiene	0.0602	0.0780	30	TML	54*
98	TMQ	Naphthalene	0.2958	0.4329	46	TMQ	60*
99	TML	1,2,3-Trichlorobenzene	0.1086	0.1517	40	TML	39
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

20.6

Data File : M:\LOKI\DATA\191023\1030L42.D
 Acq On : 31 Oct 19 9:21
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	276480	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	267584	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156544	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	80162	23.5491	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.196%	
44) 1,2-DCA-D4(S)	4.94	65	98207	26.8511	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.404%	
65) Toluene-D8(S)	7.38	98	264817	27.1986	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.796%	
73) 4-Bromofluorobenzene(S)	10.28	95	99230	28.7737	ppb	0.00
Spiked Amount	25.000		Recovery	=	115.096%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	5410	8.5882	ppb	94
4) Freon 114	0.91	85	12355	9.8760	ppb	93
5) Chloromethane	0.94	50	11449	5.9217	ppb	99
6) Vinyl chloride	1.01	62	12972	6.3779	ppb	100
8) Bromomethane	1.21	94	13297	5.2573	ppb	94
9) Chloroethane	1.27	64	8134	4.9905	ppb	94
10) Dichlorofluoromethane	1.41	67	25537	6.5242	ppb	97
11) Trichlorofluoromethane	1.45	103	19714	8.4572	ppb	87
13) Acrolein	1.74	56	11136	54.6940	ppb	# 95
14) Acetone	1.88	43	4535	4.4026	ppb	89
15) Freon-113	1.83	101	11934	6.5111	ppb	88
16) 1,1-DCE	1.82	96	12660	7.7624	ppb	95
17) t-Butanol	2.48	59	14363	81.6055	ppb	98
19) Acetonitrile	2.13	41	18999	61.0651	ppb	94
20) Methyl Acetate	2.16	43	8338	5.3462	ppb	95
21) Iodomethane	1.92	142	765	2.1967	ppb	# 83
22) Acrylonitrile	2.47	53	5022	4.8887	ppb	93
23) Methylene chloride	2.23	84	15986	7.4941	ppb	92
24) Carbon disulfide	1.97	76	25496	7.2212	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	33651	8.2236	ppb	91
26) Trans-1,2-DCE	2.49	96	14016	7.4190	ppb	90
27) Diisopropyl Ether	3.11	45	32741	8.7105	ppb	# 88
29) 1,1-DCA	2.95	63	25080	8.5617	ppb	93
30) Vinyl Acetate	3.11	45	32741	8.7105	ppb	# 88
31) Ethyl tert Butyl Ether	3.60	59	17492	13.0308	ppb	89
32) MEK (2-Butanone)	3.81	43	1029	6.4715	ppb	# 81
33) Cis-1,2-DCE	3.73	96	15149	9.5080	ppb	97
34) 2,2-Dichloropropane	3.71	77	16888	7.9174	ppb	97
37) Chloroform	4.27	83	28612	9.2875	ppb	98
38) Bromochloromethane	4.09	128	8389	8.1744	ppb	# 63
40) 1,1,1-TCA	4.48	97	27481	10.3919	ppb	92
41) Cyclohexane	4.55	41	7714	8.2618	ppb	# 44
42) 1,1-Dichloropropene	4.74	75	15903	10.0720	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	22725	8.7474	ppb	92
45) Carbon Tetrachloride	4.72	117	26619	11.3679	ppb	99
46) Tert Amyl Methyl Ether	5.27	73	12957	13.7101	ppb	# 85
48) 1,2-DCA	5.05	62	23171	10.3167	ppb	92
49) Benzene	5.01	78	51713	9.3432	ppb	97
50) TCE	5.90	130	17843	10.1031	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1030L42.D L1023W.M Tue Nov 19 11:00:45 2019

Data File : M:\LOKI\DATA\191023\1030L42.D
 Acq On : 31 Oct 19 9:21
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	64077	110.3283	ppb	93
52) 1,2-Dichloropropane	6.17	63	12711	9.0445	ppb	99
53) Bromodichloromethane	6.54	83	22895	10.3448	ppb	99
54) Methyl Cyclohexane	6.12	83	16637	11.4028	ppb	80
55) Dibromomethane	6.30	93	9807	8.9775	ppb	87
57) MIBK (methyl isobutyl ket	7.31	43	7088	9.5254	ppb #	96
58) 1-Bromo-2-chloroethane	6.87	63	15668	9.0061	ppb	99
59) Cis-1,3-Dichloropropene	7.08	75	19310	10.7059	ppb	94
60) Toluene	7.45	91	60155	11.3559	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	17571	11.1599	ppb	96
62) 1,1,2-TCA	7.93	83	10514	9.2985	ppb	85
63) 2-Hexanone	8.27	43	2647	9.6641	ppb	90
66) 1,2-EDB	8.44	107	12523	9.0527	ppb #	87
67) Tetrachloroethene	8.07	166	21603	10.4575	ppb	96
68) 1-Chlorohexane	9.05	91	14285	11.3116	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.12	131	18747	10.0423	ppb	93
70) m&p-Xylene	9.30	91	96714	21.5249	ppb	99
71) o-Xylene	9.72	106	22640	10.9614	ppb	95
72) Styrene	9.74	104	39792	10.8287	ppb	99
74) 1,3-Dichloropropane	8.11	76	20227	9.3539	ppb	98
75) Dibromochloromethane	8.35	129	19710	9.7711	ppb	88
76) Chlorobenzene	9.02	112	42785	9.7085	ppb	92
77) Ethylbenzene	9.17	91	62043	11.9440	ppb	86
78) Bromoform	9.91	173	15204	10.3899	ppb	92
80) Isopropylbenzene	10.14	105	37136	11.3924	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	14948	6.9300	ppb	98
82) 1,2,3-Trichloropropane	10.50	110	5679	8.1990	ppb	91
83) t-1,4-Dichloro-2-Butene	10.54	53	2068	8.9692	ppb	95
84) Bromobenzene	10.43	156	21498	9.7669	ppb	90
85) n-Propylbenzene	10.59	91	65835	10.2527	ppb	99
86) 4-Ethyltoluene	10.72	105	58220	10.4011	ppb	100
87) 2-Chlorotoluene	10.65	91	26192	10.5408	ppb	85
88) 1,3,5-Trimethylbenzene	10.79	105	53481	10.1328	ppb	92
89) 4-Chlorotoluene	10.77	126	8835	9.3219	ppb	87
90) Tert-Butylbenzene	11.14	119	45169	11.0361	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	49554	10.4207	ppb	99
92) Sec-Butylbenzene	11.37	105	61865	11.2285	ppb	100
93) p-Isopropyltoluene	11.54	119	57162	10.2775	ppb	93
94) Benzyl Chloride	11.71	91	9636	6.7943	ppb	98
95) 1,3-DCB	11.46	146	37182	10.4461	ppb	93
96) 1,4-DCB	11.56	146	38645	8.9946	ppb	98
97) n-Butylbenzene	11.98	91	48175	13.3991	ppb	93
98) 1,2-DCB	11.95	146	35177	9.8339	ppb	92
99) Hexachloroethane	12.22	201	14878	13.2145	ppb #	81
100) 1,2-Dibromo-3-chloropropan	12.79	75	3058	11.3411	ppb	94
101) 1,2,4-Trichlorobenzene	13.69	180	19047	16.2134	ppb	78
102) Hexachlorobutadiene	13.90	223	4886	15.4261	ppb	83
103) Naphthalene	13.94	128	27110	15.9533	ppb	96
104) 1,2,3-Trichlorobenzene	14.20	182	9496	13.9473	ppb	96

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

Quantitation Report

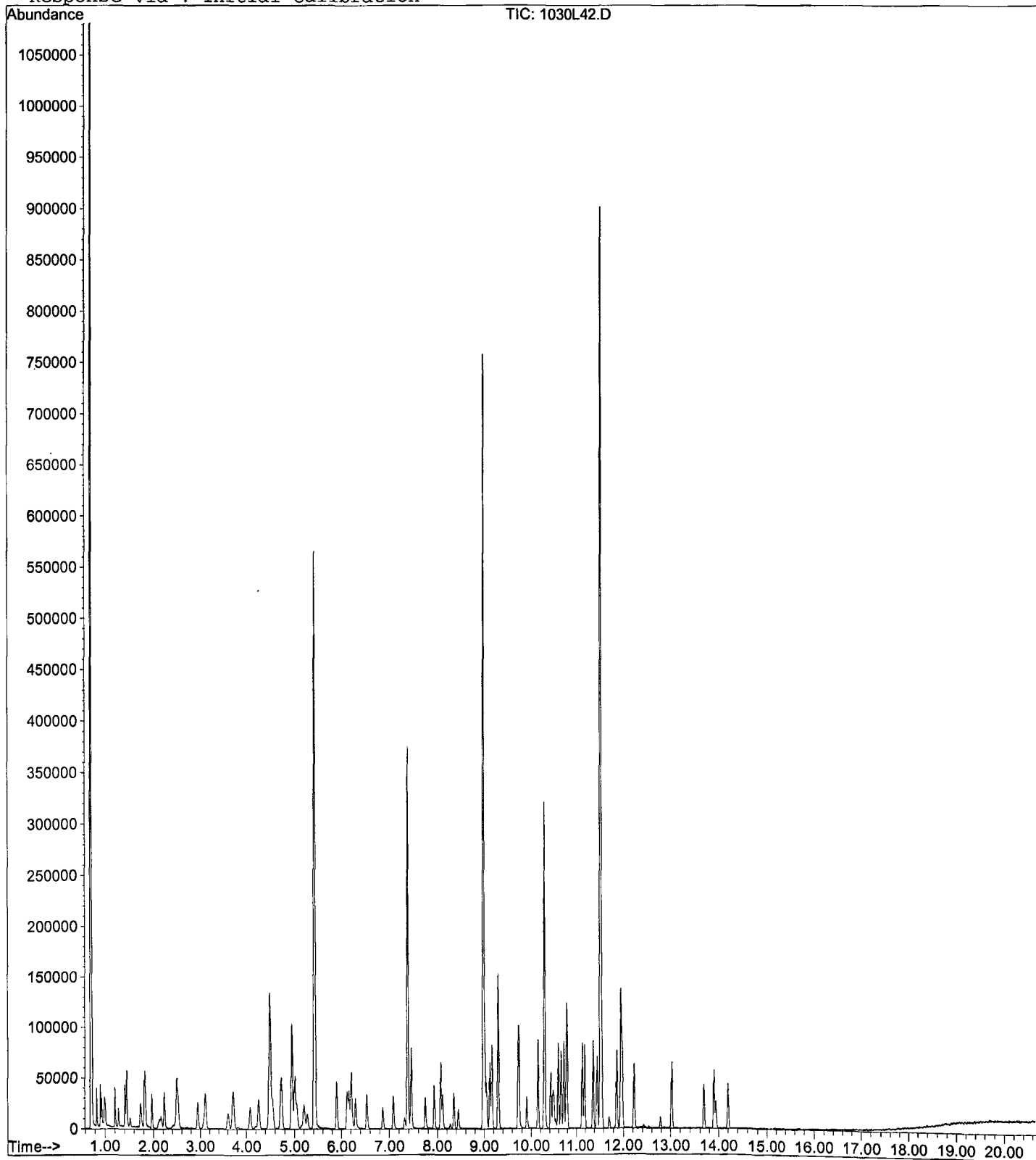
Data File : M:\LOKI\DATA\191023\1030L42.D
Acq On : 31 Oct 19 9:21
Sample : Ending CCV 10ug/L 10/29/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 42
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No:

Case No:

Initial Cal. Date: 10/23/19

Matrix:

Instrument: Thor

Initials: DP

1023T06.D 1023T07.D 1023T08.D 1023T09.D 1023T10.D 1023T11.D 1023T12.D 1023T13.D 1023T14.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	Fluorobenzene (IS)																
2	TM Chlorotrifluoroethene													TM			
3	TM Dichlorodifluoromethane		0.2635	0.2974	0.2177	0.1924	0.2092	0.2232	0.2234	0.2273		0.23	14	TM			
4	TML Freon 114		0.1488	0.1532	0.1309	0.0936	0.1075	0.1061	0.1016	0.0918		0.12	21	TML	0.998		
5	TM**L Chloromethane		0.3470	0.2838	0.2274	0.1882	0.1949	0.1769	0.1792	0.1673		0.22	29	TM**L	0.999		
6	TM* Vinyl chloride		0.2045	0.2053	0.1544	0.1472	0.1629	0.1574	0.1616	0.1630		0.17	13	TM*			
7	TM 2-Chloro-1,1,1-trifluoroethane													TM			
8	TML Bromomethane		0.1364	0.1701	0.1326	0.1025	0.0971	0.0973	0.0998	0.0989		0.12	23	TML	1.000		
9	TML Chloroethane		0.5439	0.3418	0.1686	0.1126	0.1183	0.1159	0.1115	0.1078		0.20	79	TML	1.000		
10	TM Dichlorofluoromethane		0.2987	0.3792	0.3293	0.2792	0.2956	0.3000	0.3099	0.2707		0.31	11	TM			
11	TM Trichlorofluoromethane		0.3546	0.3702	0.3204	0.2669	0.2914	0.3067	0.3120	0.3052		0.32	10	TM			
12	TM Diethyl ether													TM			
13	TM Acrolein		0.0091	0.0102	0.0093	0.0090	0.0099	0.0090	0.0094	0.0107		0.01	6.5	TM			
14	TML Acetone					0.0850	0.0694	0.0573	0.0525	0.0436		0.06	26	TML	0.993		
15	TML Freon-113		0.0900	0.0943	0.1495	0.1217	0.1326	0.1349	0.1331	0.1190		0.12	17	TML	0.997		
16	TM* 1,1-DCE		0.2461	0.2741	0.2375	0.2011	0.1994	0.2212	0.2174	0.1945		0.22	12	TM*			
17	TM 2-Propanol													TM			
18	TML Acetonitrile		0.0231	0.0203	0.0205	0.0204	0.0205	0.0204	0.0201			0.02	5.0	TML	0.999		
19	TM t-Butanol	0.0186	0.0170	0.0165	0.0163	0.0166	0.0164	0.0165	0.0162	0.0151		0.02	5.5	TM			
20	TML Methyl Acetate		0.1825	0.1427	0.1250	0.1098	0.1167	0.1135	0.1109	0.0979		0.12	21	TML	0.997		
21	TML Iodomethane			0.0515	0.0317	0.0309	0.0938	0.1285	0.1563	0.1730		0.10	62	TML	0.997		
22	TM Acrylonitrile			0.0579	0.0653	0.0505	0.0563	0.0575	0.0589	0.0544		0.06	7.9	TM			
23	TML Methylene chloride		0.3088	0.2765	0.2310	0.1876	0.2049	0.2008	0.2073	0.1755		0.22	21	TML	0.995		
24	TML Carbon disulfide		0.4997	0.5113	0.4516	0.3454	0.3784	0.3694	0.3894			0.42	16	TML	0.997		
25	TML Methyl t-butyl ether (MtBE)		0.7185	0.5653	0.5427	0.4770	0.5079	0.4926	0.5094	0.4544		0.53	15	TML	0.998		
26	TM Trans-1,2-DCE		0.2379	0.2419	0.2386	0.1914	0.2112	0.2110	0.2265	0.1937		0.22	9.2	TM			
27	TM Hexane													TM			
28	TM Diisopropyl Ether		0.2261	0.2133	0.2022	0.1735	0.1673	0.1872	0.1843	0.1687		0.19	11	TM			
29	TM** 2,2-Dichloro-1,1,1-trifluoroethane													TM**			
30	TM**L 1,1-DCA		0.1617	0.1772	0.1442	0.1175	0.1246	0.1250	0.1246	0.1101		0.14	17	TM**L	0.997		
31	TML Vinyl Acetate		0.0970	0.1887	0.1478	0.1332	0.1470	0.1495	0.1560	0.1383		0.14	18	TML	0.997		
32	TM Ethyl tert Butyl Ether		0.5563	0.5078	0.5374	0.4655	0.5217	0.5147	0.5270	0.4675		0.51	6.2	TM			
33	TML MEK (2-Butanone)		0.0765	0.1107	0.0883	0.0675	0.0684	0.0667	0.0726	0.0638		0.08	20	TML	0.997		
34	TM Cis-1,2-DCE		0.2725	0.2659	0.2822	0.2450	0.2650	0.2688	0.2788	0.2434		0.27	5.4	TM			
35	TML 2,2-Dichloropropane		0.1769	0.1489	0.1233	0.0973	0.0982	0.1074	0.1129	0.0987		0.12	24	TML	0.996		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19
Instrument: Thor

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
36	TM	2-Methylpentane													TM		
37	TM	3-Methylpentane													TM		
38	TM*	Chloroform		0.1766	0.2016	0.1713	0.1616	0.1730	0.1737	0.1778	0.1552		0.17	7.8	TM*		
39	TM	Bromochloromethane		0.0894	0.0865	0.0750	0.0644	0.0729	0.0733	0.0722	0.0632		0.07	12	TM		
40	S	Dibromofluoromethane(S)	0.5385	0.5240	0.4368	0.4526	0.4712	0.4842	0.4850	0.4883	0.4565		0.48	6.8	S		
41	TML	1,1,1-TCA		0.2129	0.1588	0.1638	0.1363	0.1488	0.1422	0.1490	0.1319		0.16	16	TML	0.998	
42	TM	Cyclohexane		0.2261	0.2534	0.2165	0.1723	0.1768	0.1838	0.1960	0.1759		0.20	15	TM		
43	TM	1,1-Dichloropropene		0.2534	0.2616	0.2105	0.1953	0.2043	0.2079	0.2218	0.1929		0.22	12	TM		
44	TML	2,2,4-Trimethylpentane		0.2331	0.2307	0.1631	0.1311	0.1417	0.1530	0.1543	0.1467		0.17	24	TML	0.999	
45	S	1,2-DCA-D4(S)	0.5868	0.5920	0.4819	0.5140	0.5350	0.5510	0.5468	0.5434	0.5053		0.54	6.7	S		
46	TML	Carbon Tetrachloride		0.1055	0.3400	0.2537	0.2272	0.2464	0.2563	0.2777	0.2389		0.24	27	TML	0.996	
47	TM	Tert Amyl Methyl Ether		0.5745	0.5621	0.5367	0.4861	0.4912	0.5084	0.5332	0.4716		0.52	7.1	TM		
48	TM	Methylcyclopentane													TM		
49	TML	1,2-DCA		0.1966	0.3107	0.1541	0.1327	0.1395	0.1555	0.1500	0.1332		0.17	35	TML	0.997	
50	TM	Benzene		0.8485	0.8036	0.7185	0.6643	0.6662	0.6757	0.6931	0.6211		0.71	11	TM		
51	TM	TCE		0.2722	0.2470	0.2286	0.1953	0.2056	0.2059	0.2205	0.1905		0.22	13	TM		
52	TM	2-Pentanone		0.1108	0.1149	0.1111	0.1099	0.1099	0.1143	0.1151	0.1033		0.11	3.5	TM		
53	TM*	1,2-Dichloropropane		0.1853	0.2044	0.2111	0.1592	0.1711	0.1716	0.1804	0.1632		0.18	10	TM*		
54	TM	Bromodichloromethane		0.3065	0.2886	0.2968	0.2566	0.2672	0.2716	0.2766	0.2507		0.28	7.0	TM		
55	TM	Methyl Cyclohexane		0.2264	0.2806	0.2220	0.1998	0.2057	0.2142	0.2154	0.1995		0.22	12	TM		
56	TML	Dibromomethane		0.0397	0.1774	0.1298	0.1310	0.1452	0.1650	0.1731	0.1500		0.14	32	TML	0.996	
57	TML	MIBK (methyl isobutyl ketone)		0.0844	0.0692	0.0637	0.0572	0.0554	0.0541	0.0581	0.0607		0.06	16	TML	0.999	
58	TM	1-Bromo-2-chloroethane		0.2573	0.2182	0.2514	0.2085	0.2346	0.2347	0.2443	0.2149		0.23	7.6	TM		
59	TM	2-Chloroethyl vinyl ether													TM		
60	TM	Cis-1,3-Dichloropropene		0.3335	0.3178	0.2936	0.2532	0.2842	0.2741	0.2944	0.2653		0.29	9.2	TM		
61	TM*	Toluene		0.9098	0.9112	0.8100	0.7171	0.7733	0.7816	0.8151	0.7330		0.81	9.0	TM*		
62	TM	Trans-1,3-Dichloropropene		0.2312	0.1717	0.1734	0.1593	0.1756	0.1793	0.1867	0.1706		0.18	12	TM		
63	TM	1,1,2-TCA		0.1921	0.1936	0.1959	0.1649	0.1831	0.1763	0.1788	0.1619		0.18	7.1	TM		
64	TML	2-Hexanone		0.1190	0.1019	0.0917	0.0683	0.0836	0.0845	0.0859	0.0908		0.09	16	TML	0.999	
65	I	Chlorobenzene-D5 (IS)															
66	S	Toluene-D8(S)	2.143	2.042	1.649	1.690	1.820	1.965	1.778	1.900	1.815		1.9	8.7	S		
67	TM	1,2-EDB		0.1280	0.1257	0.1213	0.1171	0.1178	0.1147	0.1206	0.1124		0.12	4.4	TM		
68	TM	Tetrachloroethene		0.2621	0.1636	0.2604	0.2344	0.2586	0.2354	0.2538	0.2261		0.24	14	TM		
69	TML	1-Chlorohexane		0.2348	0.3409	0.1975	0.2087	0.2225	0.2148	0.2169	0.2095		0.23	20	TML	1.000	
70	TM	1,1,1,2-Tetrachloroethane		0.2959	0.2482	0.2317	0.2188	0.2393	0.2266	0.2473	0.2274		0.24	10.0	TM		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19 _____
Instrument: Thor _____

Initials: DP

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
71	TM	m&p-Xylene		0.7498	0.7821	0.7043	0.6485	0.7359	0.6995	0.7681	0.7042		0.72	6.0	TM		
72	TM	o-Xylene		0.8311	0.8492	0.7438	0.6798	0.8011	0.7259	0.8069	0.7531		0.77	7.5	TM		
73	TM	Styrene		0.6076	0.5684	0.4928	0.4722	0.5586	0.5232	0.5954	0.5736		0.55	8.8	TM		
74	S	4-Bromofluorobenzene(S)	0.8756	0.7804	0.6244	0.6442	0.7197	0.7700	0.7173	0.7521	0.7682		0.74	10	S		
75	TM	1,3-Dichloropropane		0.3214	0.3602	0.3177	0.2956	0.3152	0.2972	0.3054	0.2819		0.31	7.6	TM		
76	TML	Dibromochloromethane		0.0593	0.2424	0.2370	0.2108	0.2612	0.2356	0.2509	0.2387		0.22	30	TML	0.999	
77	TM**	Chlorobenzene		0.4023	0.3965	0.3492	0.3439	0.3893	0.3469	0.3743	0.3468		0.37	6.7	TM**		
78	TM*	Ethylbenzene		0.9902	0.9200	0.9273	0.8019	0.9160	0.8708	0.9368	0.8660		0.90	6.3	TM*		
79	TM**L	Bromoform		0.0742	0.1464	0.1916	0.1780	0.2077	0.1939	0.1995	0.1988		0.17	26	TM**L	1.000	
80	I	1,4-Dichlorobenzene-D (IS)															
81	TM	Isopropylbenzene		1.591	1.840	1.530	1.427	1.549	1.443	1.591	1.317		1.5	10	TM		
82	TM**	1,1,2,2-Tetrachloroethane		0.4738	0.3664	0.4444	0.3665	0.4152	0.4009	0.3990	0.3637		0.40	9.9	TM**		
83	TML	1,2,3-Trichloropropane		0.0485	0.1436	0.1330	0.1331	0.1434	0.1385	0.1396	0.1228		0.13	25	TML	0.997	
84	TML	t-1,4-Dichloro-2-Butene		0.0264	0.0609	0.0805	0.0930	0.0833	0.0809	0.0819	0.0749		0.07	29	TML	0.999	
85	TM	Bromobenzene		0.4205	0.4747	0.4052	0.3679	0.4011	0.3708	0.4040	0.3574		0.40	9.3	TM		
86	TM	n-Propylbenzene		1.966	1.913	1.738	1.541	1.638	1.619	1.750	1.493		1.7	9.8	TM		
87	TM	4-Ethyltoluene		1.598	1.501	1.504	1.355	1.436	1.406	1.581	1.337		1.5	6.7	TM		
88	TM	2-Chlorotoluene		0.7020	0.8063	0.7557	0.6917	0.6698	0.6817	0.7216	0.6330		0.71	7.6	TM		
89	TM	1,3,5-Trimethylbenzene		1.259	1.494	1.251	1.244	1.304	1.280	1.391	1.196		1.3	7.4	TM		
90	TM	4-Chlorotoluene		0.7780	0.8172	0.8811	0.7244	0.8125	0.7871	0.9000	0.7433		0.81	7.6	TM		
91	TM	Tert-Butylbenzene		1.225	1.170	1.311	1.208	1.130	1.115	1.210	1.033		1.2	7.1	TM		
92	TM	1,2,4-Trimethylbenzene		1.331	1.543	1.367	1.254	1.300	1.276	1.402	1.212		1.3	7.8	TM		
93	TM	Sec-Butylbenzene		1.667	1.641	1.503	1.393	1.510	1.463	1.615	1.396		1.5	7.0	TM		
94	TM	p-Isopropyltoluene		1.283	1.416	1.335	1.225	1.374	1.326	1.466	1.277		1.3	5.9	TM		
95	TM	Benzyl Chloride		0.3521	0.3298	0.2742	0.3076	0.2905	0.3003	0.3140	0.3307		0.31	8.0	TM		
96	TM	1,3-DCB		0.7074	0.6746	0.6224	0.5443	0.5435	0.5187	0.5507	0.4944		0.58	13	TM		
97	TM	1,4-DCB		1.117	0.9190	0.9501	0.7911	0.8213	0.8035	0.8716	0.7780		0.88	13	TM		
98	TM	n-Butylbenzene		1.085	1.065	1.005	0.8899	0.9728	0.9890	1.126	0.9982		1.0	7.3	TM		
99	TM	1,2-DCB		0.5874	0.5719	0.5274	0.4788	0.5258	0.4932	0.5480	0.5036		0.53	7.2	TM		
100	TM	Hexachloroethane		0.1594	0.1599	0.1796	0.1534	0.1690	0.1464	0.1699	0.1641		0.16	6.4	TM		
101	TML	1,2-Dibromo-3-chloropropane		0.1001	0.0554	0.0561	0.0637	0.0530	0.0547	0.0600	0.0551		0.06	25	TML	0.999	
102	TM	1,2,4-Trichlorobenzene		0.3419	0.3602	0.2846	0.2815	0.3090	0.3105	0.3407	0.3131		0.32	8.8	TM		
103	TM	Hexachlorobutadiene		0.2380	0.1957	0.1659	0.1794	0.1971	0.1781	0.2086	0.1932		0.19	11	TM		
104	TM	Naphthalene		0.9319	0.8032	0.7281	0.6839	0.7404	0.8006	0.9091	0.8287		0.80	11	TM		
105	TML	1,2,3-Trichlorobenzene		0.1330	0.5188	0.4190	0.4062	0.3909	0.4349	0.4897	0.4316		0.40	29	TML	0.997	

Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T191023\1023T06.D Vial: 6
 Acq On : 23 Oct 19 19:32 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 10:00 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	160768	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	91040	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	19209	5.59	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.348%	
45) 1,2-DCA-D4(S)	6.18	65	20935	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.752%	
66) Toluene-D8(S)	8.30	98	68918	5.74	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.960%	
74) 4-Bromofluorobenzene(S)	10.92	174	28153	5.92	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.692%	
Target Compounds						
19) t-Butanol	3.53	59	1328	11.22	ppb #	Qvalue 83

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

Quantitation Report

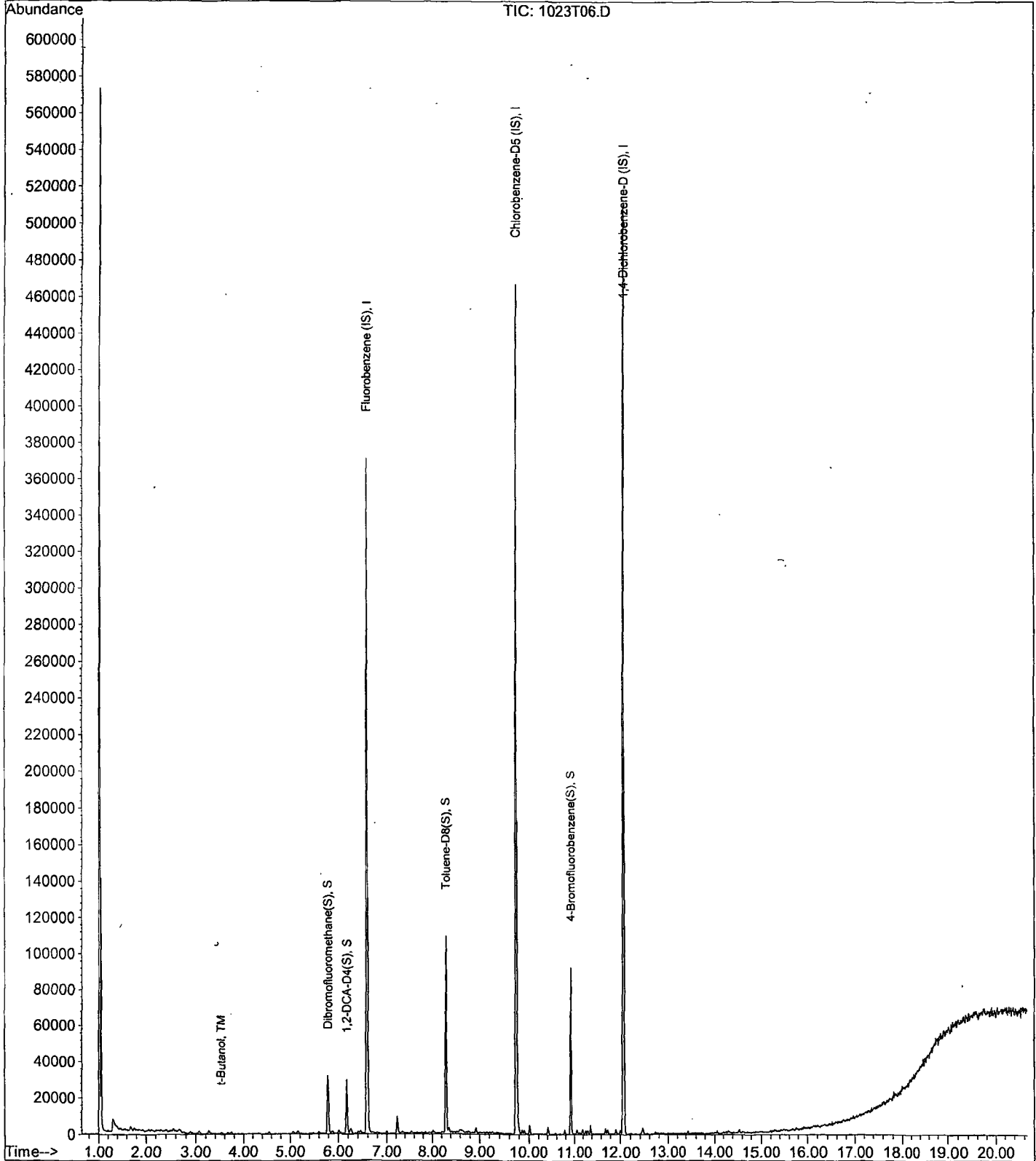
Data File : M:\THOR\DATA\T191023\1023T06.D
Acq On : 23 Oct 19 19:32
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 10:00 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T07.D
 Acq On : 23 Oct 19 20:01
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177792	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	164416	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	92872	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	18632	5.44	ppb	0.00
Spiked Amount				25.000		
Recovery				=	21.748%	
45) 1,2-DCA-D4(S)	6.18	65	21049	5.49	ppb	0.00
Spiked Amount				25.000		
Recovery				=	21.940%	
66) Toluene-D8(S)	8.30	98	67127	5.47	ppb	0.00
Spiked Amount				25.000		
Recovery				=	21.868%	
74) 4-Bromofluorobenzene(S)	10.92	174	25663	5.28	ppb	0.00
Spiked Amount				25.000		
Recovery				=	21.120%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.21	85	937	0.57	ppb	95
4) Freon 114	1.32	85	529	-0.55	ppb #	68
6) Vinyl chloride	1.46	62	727	0.60	ppb #	51
8) Bromomethane	1.76	96	485	0.41	ppb	92
9) Chloroethane	1.87	64	1934	1.06	ppb #	42
10) Dichlorofluoromethane	2.06	67	1062	0.49	ppb	89
11) Trichlorofluoromethane	2.12	101	1261	0.56	ppb	86
13) Acrolein	2.56	55	1625	23.88	ppb	94
14) Acetone	2.74	43	1532	3.50	ppb #	76
15) Freon-113	2.70	101	320	-0.57	ppb #	77
16) 1,1-DCE	2.68	61	875	0.55	ppb	95
18) Acetonitrile	3.06	41	4102	25.90	ppb #	90
19) t-Butanol	3.54	59	3028	25.66	ppb #	72
20) Methyl Acetate	3.19	43	649	-0.56	ppb #	51
23) Methylene chloride	3.27	49	1098	-0.66	ppb #	86
24) Carbon disulfide	2.90	76	1777	0.45	ppb #	92
25) Methyl t-butyl ether (MtBE)	3.74	73	2555	-0.20	ppb #	83
26) Trans-1,2-DCE	3.68	61	846	0.54	ppb	85
28) Diisopropyl Ether	4.55	45	804	0.59	ppb	91
30) 1,1-DCA	4.33	63	575	-0.56	ppb #	66
31) Vinyl Acetate	4.55	87	345	-0.38	ppb #	37
32) Ethyl tert Butyl Ether	5.06	59	1978	0.54	ppb #	82
33) MEK (2-Butanone)	5.23	43	272	0.59	ppb #	52
34) Cis-1,2-DCE	5.16	61	969	0.51	ppb #	84
35) 2,2-Dichloropropane	5.16	77	629	0.49	ppb #	56
38) Chloroform	5.60	83	628	0.51	ppb	87
39) Bromochloromethane	5.47	130	318	0.60	ppb #	74
41) 1,1,1-TCA	5.80	97	757	-0.21	ppb	81
42) Cyclohexane	5.87	84	804	0.57	ppb #	75
43) 1,1-Dichloropropene	6.01	75	901	0.58	ppb #	78
44) 2,2,4-Trimethylpentane	6.41	57	829	0.47	ppb	88
46) Carbon Tetrachloride	6.01	119	375	-0.52	ppb #	17
47) Tert Amyl Methyl Ether	6.45	73	2043	0.55	ppb #	80
49) 1,2-DCA	6.27	62	699	-0.50	ppb #	72
50) Benzene	6.25	78	3017	0.60	ppb	95
51) TCE	7.01	130	968	0.62	ppb #	70
52) 2-Pentanone	7.23	43	19699	24.92	ppb	100
53) 1,2-Dichloropropane	7.23	63	659	0.51	ppb #	71
54) Bromodichloromethane	7.53	83	1090	0.55	ppb #	91

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

Data File : M:\THOR\DATA\T191023\1023T07.D
 Acq On : 23 Oct 19 20:01
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) Methyl Cyclohexane	7.22	83	805	0.51	ppb	89
56) Dibromomethane	7.35	174	141	-0.35	ppb	91
57) MIBK (methyl isobutyl ket	9.05	43	300	1.22	ppb #	77
58) 1-Bromo-2-chloroethane	7.85	63	915	0.55	ppb	90
60) Cis-1,3-Dichloropropene	8.02	75	1186	0.58	ppb #	82
61) Toluene	8.36	91	3235	0.56	ppb	96
62) Trans-1,3-Dichloropropene	8.59	75	822	0.64	ppb #	72
63) 1,1,2-TCA	8.77	97	683	0.53	ppb	87
64) 2-Hexanone	8.20	43	423	1.29	ppb #	62
67) 1,2-EDB	9.26	107	421	0.53	ppb	92
68) Tetrachloroethene	8.93	166	862	0.55	ppb	89
69) 1-Chlorohexane	9.78	91	772	0.19	ppb #	65
70) 1,1,1,2-Tetrachloroethane	9.86	131	973	0.61	ppb	95
71) m&p-Xylene	10.02	91	4931	1.04	ppb	98
72) o-Xylene	10.40	91	2733	0.54	ppb	96
73) Styrene	10.41	104	1998	0.55	ppb	96
75) 1,3-Dichloropropane	8.94	76	1057	0.52	ppb	93
77) Chlorobenzene	9.77	112	1323	0.55	ppb	83
78) Ethylbenzene	9.90	91	3256	0.55	ppb	88
79) Bromoform	10.58	173	244	0.38	ppb #	64
81) Isopropylbenzene	10.78	105	2955	0.52	ppb #	92
82) 1,1,2,2-Tetrachloroethane	11.06	83	880	0.59	ppb #	85
83) 1,2,3-Trichloropropane	11.10	110	90	-0.89	ppb #	19
84) t-1,4-Dichloro-2-Butene	11.13	53	49	-0.64	ppb #	16
85) Bromobenzene	11.06	77	781	0.53	ppb	91
86) n-Propylbenzene	11.19	91	3651	0.58	ppb	89
87) 4-Ethyltoluene	11.31	105	2968	0.55	ppb #	90
88) 2-Chlorotoluene	11.26	91	1304	0.50	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	2339	0.48	ppb	95
90) 4-Chlorotoluene	11.37	91	1445	0.48	ppb	98
91) Tert-Butylbenzene	11.69	119	2276	0.52	ppb	96
92) 1,2,4-Trimethylbenzene	11.74	105	2473	0.50	ppb	97
93) Sec-Butylbenzene	11.91	105	3096	0.55	ppb	95
94) p-Isopropyltoluene	12.06	119	2383	0.48	ppb #	81
95) Benzyl Chloride	12.22	91	654	0.56	ppb #	74
96) 1,3-DCB	12.00	146	1008	0.47	ppb	89
97) 1,4-DCB	12.09	146	2074	0.63	ppb	94
98) n-Butylbenzene	12.47	91	2016	0.53	ppb	95
99) 1,2-DCB	12.46	146	1091	0.55	ppb	84
100) Hexachloroethane	12.71	117	296	0.49	ppb #	38
101) 1,2-Dibromo-3-chloropropan	13.22	157	186	0.50	ppb #	50
102) 1,2,4-Trichlorobenzene	14.07	182	635	0.54	ppb #	81
103) Hexachlorobutadiene	14.25	225	442	0.61	ppb #	43
104) Naphthalene	14.30	128	1731	0.58	ppb #	85

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

1023T07.D T1023W.M

Thu Oct 24 10:00:18 2019

Quantitation Report

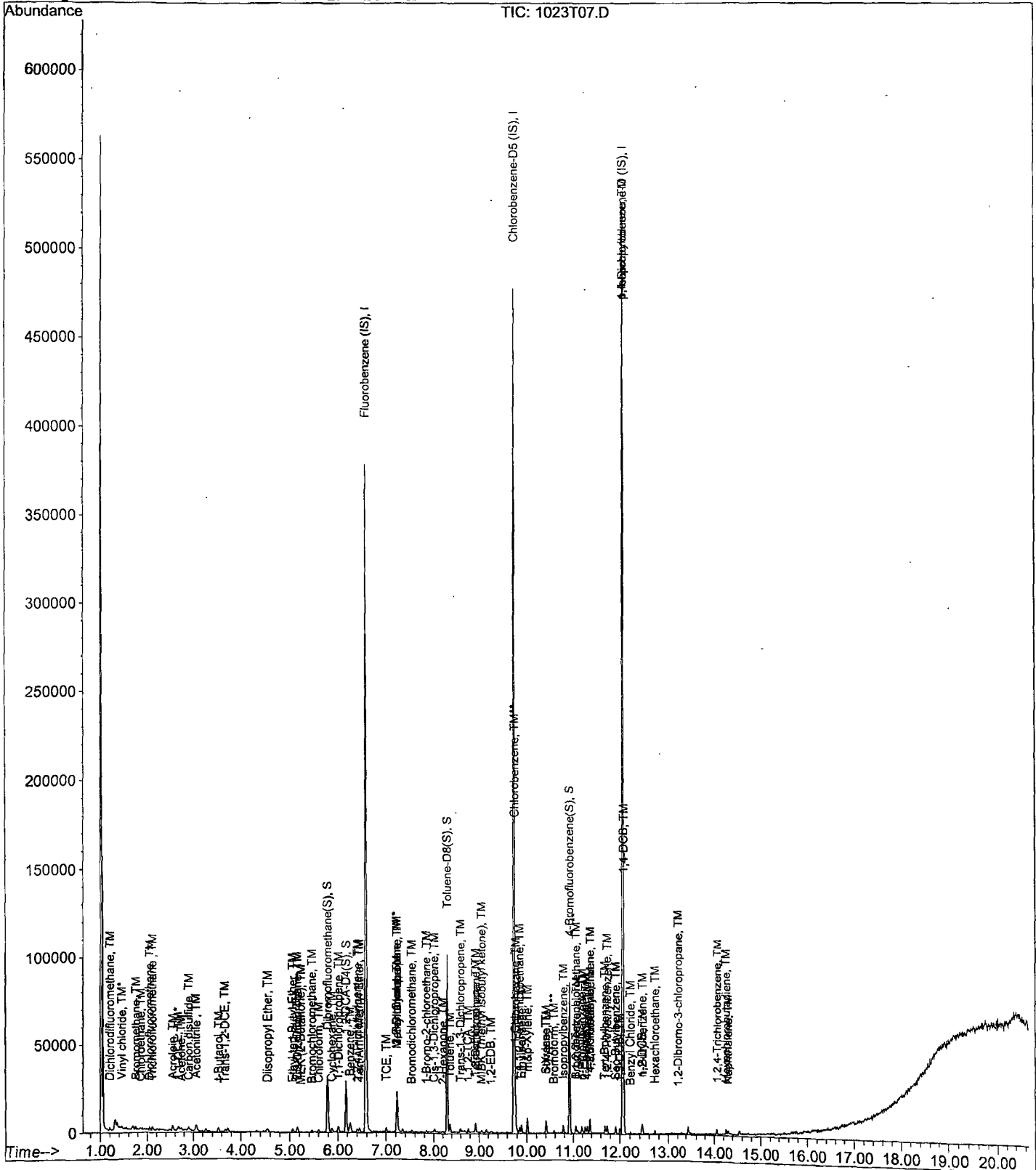
Data File : M:\THOR\DATA\T191023\1023T07.D
 Acq On : 23 Oct 19 20:01
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T08.D Vial: 8
 Acq On : 23 Oct 19 20:29 Operator:
 Sample : 1.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	186048	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	170048	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	96952	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	32509	9.07	ppb	0.00
Spiked Amount						
			Recovery	=	36.260%	
45) 1,2-DCA-D4(S)	6.18	65	35862	8.93	ppb	0.00
Spiked Amount						
			Recovery	=	35.724%	
66) Toluene-D8(S)	8.30	98	112166	8.83	ppb	0.00
Spiked Amount						
			Recovery	=	35.332%	
74) 4-Bromofluorobenzene(S)	10.92	174	42473	8.45	ppb	0.00
Spiked Amount						
			Recovery	=	33.796%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.21	85	2213	1.28	ppb	# 81
4) Freon 114	1.32	85	1140	0.31	ppb	93
5) Chloromethane	1.36	50	2112	0.60	ppb	96
6) Vinyl chloride	1.46	62	1528	1.21	ppb	96
8) Bromomethane	1.75	96	1266	1.45	ppb	96
9) Chloroethane	1.86	64	2544	1.72	ppb	98
10) Dichlorofluoromethane	2.06	67	2822	1.23	ppb	92
11) Trichlorofluoromethane	2.12	101	2755	1.17	ppb	99
13) Acrolein	2.55	55	3800	53.36	ppb	80
14) Acetone	2.74	43	1592	3.48	ppb	# 79
15) Freon-113	2.69	101	702	-0.16	ppb	# 84
16) 1,1-DCE	2.66	61	2040	1.22	ppb	90
18) Acetonitrile	3.06	41	7539	47.94	ppb	92
19) t-Butanol	3.54	59	6157	49.86	ppb	96
21) Iodomethane	2.82	142	383	3.68	ppb	94
22) Acrylonitrile	3.62	53	431	1.01	ppb	# 78
24) Carbon disulfide	2.90	76	3805	1.15	ppb	# 93
25) Methyl t-butyl ether (MtBE)	3.73	73	4207	0.25	ppb	# 89
26) Trans-1,2-DCE	3.67	61	1800	1.10	ppb	93
28) Diisopropyl Ether	4.55	45	1587	1.12	ppb	# 83
30) 1,1-DCA	4.32	63	1319	0.31	ppb	# 79
31) Vinyl Acetate	4.56	87	1404	0.62	ppb	91
32) Ethyl tert Butyl Ether	5.06	59	3779	0.99	ppb	# 77
33) MEK (2-Butanone)	5.25	43	824	1.70	ppb	# 52
34) Cis-1,2-DCE	5.16	61	1979	1.00	ppb	# 70
35) 2,2-Dichloropropane	5.15	77	1108	1.09	ppb	# 58
38) Chloroform	5.60	83	1500	1.16	ppb	98
39) Bromochloromethane	5.46	130	644	1.16	ppb	# 48
41) 1,1,1-TCA	5.80	97	1182	0.18	ppb	# 79
42) Cyclohexane	5.87	84	1886	1.27	ppb	78
43) 1,1-Dichloropropene	6.02	75	1947	1.20	ppb	85
44) 2,2,4-Trimethylpentane	6.41	57	1717	1.24	ppb	93
46) Carbon Tetrachloride	6.01	119	2530	0.67	ppb	77
47) Tert Amyl Methyl Ether	6.45	73	4183	1.08	ppb	95
49) 1,2-DCA	6.26	62	2312	1.08	ppb	# 90
50) Benzene	6.25	78	5980	1.13	ppb	# 88
51) TCE	7.01	130	1838	1.12	ppb	87
52) 2-Pentanone	7.23	43	42744	51.67	ppb	96
53) 1,2-Dichloropropane	7.23	63	1521	1.13	ppb	# 88

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

Data File : M:\THOR\DATA\T191023\1023T08.D
 Acq On : 23 Oct 19 20:29
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Bromodichloromethane	7.54	83	2148	1.04	ppb	# 68
55) Methyl Cyclohexane	7.22	83	2088	1.27	ppb	88
56) Dibromomethane	7.35	174	1320	0.68	ppb	90
57) MIBK (methyl isobutyl ket	9.05	43	515	1.66	ppb	# 73
58) 1-Bromo-2-chloroethane	7.85	63	1624	0.94	ppb	83
60) Cis-1,3-Dichloropropene	8.02	75	2365	1.10	ppb	98
61) Toluene	8.37	91	6781	1.13	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	1278	0.95	ppb	# 28
63) 1,1,2-TCA	8.77	97	1441	1.07	ppb	94
64) 2-Hexanone	8.21	43	758	1.76	ppb	# 71
67) 1,2-EDB	9.26	107	855	1.05	ppb	# 75
68) Tetrachloroethene	8.92	166	1113	0.69	ppb	92
69) 1-Chlorohexane	9.78	91	2319	1.25	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.86	131	1688	1.03	ppb	79
71) m&p-Xylene	10.02	91	10640	2.16	ppb	91
72) o-Xylene	10.40	91	5776	1.10	ppb	92
73) Styrene	10.42	104	3866	1.04	ppb	93
75) 1,3-Dichloropropane	8.93	76	2450	1.16	ppb	87
76) Dibromochloromethane	9.16	129	1649	0.91	ppb	# 81
77) Chlorobenzene	9.77	112	2697	1.08	ppb	# 91
78) Ethylbenzene	9.90	91	6258	1.02	ppb	96
79) Bromoform	10.58	173	996	0.93	ppb	# 30
81) Isopropylbenzene	10.78	105	7137	1.20	ppb	96
82) 1,1,2,2-Tetrachloroethane	11.06	83	1421	0.91	ppb	# 91
85) Bromobenzene	11.06	77	1841	1.19	ppb	91
86) n-Propylbenzene	11.19	91	7417	1.12	ppb	92
87) 4-Ethyltoluene	11.31	105	5822	1.02	ppb	92
88) 2-Chlorotoluene	11.26	91	3127	1.14	ppb	94
89) 1,3,5-Trimethylbenzene	11.31	105	5746	1.14	ppb	84
90) 4-Chlorotoluene	11.37	91	3169	1.01	ppb	# 85
91) Tert-Butylbenzene	11.69	119	4538	1.00	ppb	93
92) 1,2,4-Trimethylbenzene	11.74	105	5982	1.15	ppb	91
93) Sec-Butylbenzene	11.91	105	6363	1.08	ppb	# 92
94) p-Isopropyltoluene	12.06	119	5492	1.06	ppb	# 89
95) Benzyl Chloride	12.22	91	1279	1.06	ppb	# 92
96) 1,3-DCB	12.00	146	2616	1.16	ppb	92
97) 1,4-DCB	12.09	146	3564	1.04	ppb	99
98) n-Butylbenzene	12.47	91	4131	1.05	ppb	# 83
99) 1,2-DCB	12.46	146	2218	1.08	ppb	96
100) Hexachloroethane	12.72	117	620	0.98	ppb	92
101) 1,2-Dibromo-3-chloropropan	13.22	157	215	0.59	ppb	# 74
102) 1,2,4-Trichlorobenzene	14.06	182	1397	1.13	ppb	94
103) Hexachlorobutadiene	14.25	225	759	1.01	ppb	# 33
104) Naphthalene	14.30	128	3115	1.00	ppb	96
105) 1,2,3-Trichlorobenzene	14.54	182	2012	0.99	ppb	# 69

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

1023T08.D T1023W.M

Thu Oct 24 10:00:23 2019

Quantitation Report

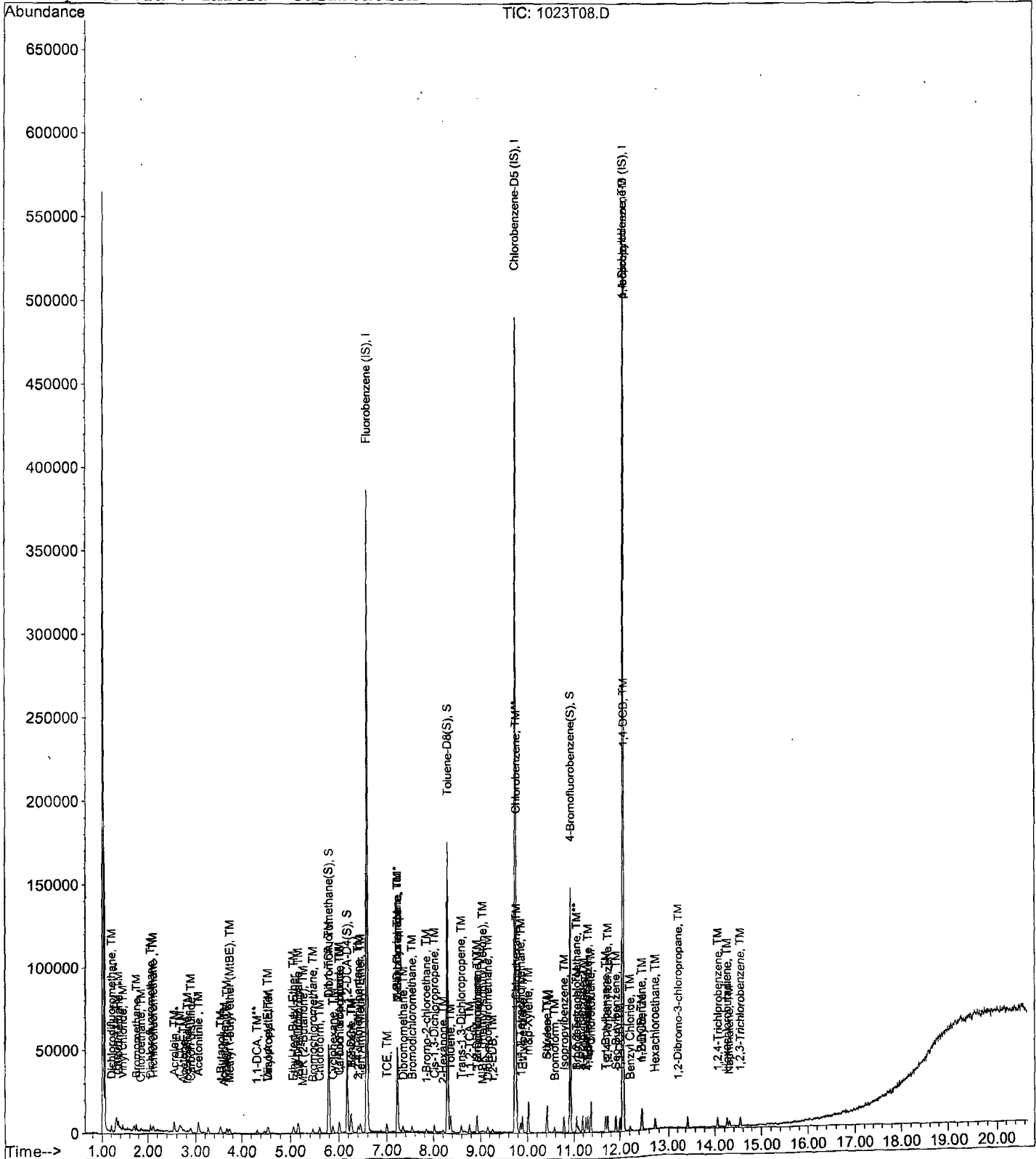
Data File : M:\THOR\DATA\T191023\1023T08.D
Acq On : 23 Oct 19 20:29
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T09.D
 Acq On : 23 Oct 19 20:58
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	182336	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	173696	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	94992	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	33009	9.39	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.568%	
45) 1,2-DCA-D4(S)	6.18	65	37488	9.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.104%	
66) Toluene-D8(S)	8.30	98	117350	9.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.188%	
74) 4-Bromofluorobenzene(S)	10.92	174	44756	8.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.864%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	3175	1.88	ppb	97
4) Freon 114	1.32	85	1910	1.49	ppb	85
5) Chloromethane	1.36	50	3317	1.63	ppb #	81
6) Vinyl chloride	1.46	62	2252	1.82	ppb	90
8) Bromomethane	1.75	96	1934	2.41	ppb	83
9) Chloroethane	1.86	64	2460	1.68	ppb #	73
10) Dichlorofluoromethane	2.06	67	4804	2.14	ppb	89
11) Trichlorofluoromethane	2.12	101	4673	2.03	ppb	97
13) Acrolein	2.55	55	5067	72.60	ppb	97
14) Acetone	2.74	43	2190	4.88	ppb #	76
15) Freon-113	2.70	101	2181	1.55	ppb #	88
16) 1,1-DCE	2.67	61	3464	2.12	ppb	92
18) Acetonitrile	3.06	41	11213	74.43	ppb	97
19) t-Butanol	3.54	59	8922	73.72	ppb	93
20) Methyl Acetate	3.18	43	1823	1.05	ppb #	78
21) Iodomethane	2.82	142	462	3.74	ppb	88
22) Acrylonitrile	3.62	53	953	2.28	ppb	92
23) Methylene chloride	3.27	49	3370	1.08	ppb	87
24) Carbon disulfide	2.89	76	6588	2.19	ppb	98
25) Methyl t-butyl ether (MtBE)	3.73	73	7916	1.39	ppb #	89
26) Trans-1,2-DCE	3.68	61	3481	2.18	ppb	89
28) Diisopropyl Ether	4.55	45	2949	2.12	ppb	97
30) 1,1-DCA	4.32	63	2103	1.32	ppb #	92
31) Vinyl Acetate	4.55	87	2156	1.39	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	7839	2.10	ppb	99
33) MEK (2-Butanone)	5.22	43	1288	2.71	ppb #	73
34) Cis-1,2-DCE	5.16	61	4117	2.13	ppb	95
35) 2,2-Dichloropropane	5.16	77	1799	2.05	ppb	93
38) Chloroform	5.59	83	2498	1.97	ppb	97
39) Bromochloromethane	5.46	130	1094	2.01	ppb	90
41) 1,1,1-TCA	5.80	97	2390	1.46	ppb	94
42) Cyclohexane	5.87	84	3158	2.16	ppb	79
43) 1,1-Dichloropropene	6.02	75	3070	1.93	ppb	92
44) 2,2,4-Trimethylpentane	6.41	57	2379	1.89	ppb	99
46) Carbon Tetrachloride	6.01	119	3701	1.36	ppb	88
47) Tert Amyl Methyl Ether	6.46	73	7829	2.06	ppb	95
49) 1,2-DCA	6.27	62	2248	1.06	ppb	93
50) Benzene	6.25	78	10480	2.02	ppb	95
51) TCE	7.00	130	3335	2.07	ppb	95

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

Data File : M:\THOR\DATA\T191023\1023T09.D
 Acq On : 23 Oct 19 20:58
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	60760	74.94	ppb	97
53) 1,2-Dichloropropane	7.23	63	3079	2.34	ppb #	98
54) Bromodichloromethane	7.54	83	4329	2.14	ppb	99
55) Methyl Cyclohexane	7.22	83	3239	2.01	ppb	85
56) Dibromomethane	7.34	174	1893	1.22	ppb	97
57) MIBK (methyl isobutyl ket	9.05	43	929	2.63	ppb #	84
58) 1-Bromo-2-chloroethane	7.85	63	3667	2.16	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	4282	2.03	ppb	95
61) Toluene	8.37	91	11816	2.01	ppb	97
62) Trans-1,3-Dichloropropene	8.59	75	2529	1.92	ppb #	65
63) 1,1,2-TCA	8.77	97	2858	2.17	ppb	79
64) 2-Hexanone	8.20	43	1337	2.66	ppb #	89
67) 1,2-EDB	9.26	107	1686	2.03	ppb	80
68) Tetrachloroethene	8.92	166	3619	2.20	ppb	93
69) 1-Chlorohexane	9.77	91	2745	1.51	ppb	92
70) 1,1,1,2-Tetrachloroethane	9.85	131	3220	1.92	ppb	97
71) m&p-Xylene	10.02	91	19574	3.89	ppb	100
72) o-Xylene	10.40	91	10335	1.92	ppb	93
73) Styrene	10.42	104	6848	1.80	ppb	90
75) 1,3-Dichloropropane	8.93	76	4414	2.04	ppb	96
76) Dibromochloromethane	9.16	129	3293	1.87	ppb	83
77) Chlorobenzene	9.77	112	4853	1.89	ppb	96
78) Ethylbenzene	9.90	91	12886	2.05	ppb	92
79) Bromoform	10.58	173	2663	2.11	ppb	90
81) Isopropylbenzene	10.78	105	11630	1.99	ppb #	92
82) 1,1,2,2-Tetrachloroethane	11.05	83	3377	2.20	ppb #	92
83) 1,2,3-Trichloropropane	11.09	110	1011	1.06	ppb #	76
84) t-1,4-Dichloro-2-Butene	11.12	53	612	1.33	ppb	90
85) Bromobenzene	11.06	77	3079	2.02	ppb	80
86) n-Propylbenzene	11.19	91	13209	2.04	ppb	98
87) 4-Ethyltoluene	11.31	105	11432	2.05	ppb	97
88) 2-Chlorotoluene	11.26	91	5743	2.14	ppb	91
89) 1,3,5-Trimethylbenzene	11.37	105	9508	1.92	ppb	97
90) 4-Chlorotoluene	11.37	91	6696	2.19	ppb	96
91) Tert-Butylbenzene	11.69	119	9964	2.23	ppb	86
92) 1,2,4-Trimethylbenzene	11.74	105	10392	2.05	ppb	92
93) Sec-Butylbenzene	11.91	105	11421	1.97	ppb	97
94) p-Isopropyltoluene	12.06	119	10147	2.00	ppb	99
95) Benzyl Chloride	12.22	91	2084	1.76	ppb	96
96) 1,3-DCB	12.00	146	4196	1.90	ppb	97
97) 1,4-DCB	12.09	146	7220	2.16	ppb	97
98) n-Butylbenzene	12.47	91	7641	1.98	ppb	98
99) 1,2-DCB	12.46	146	4008	1.99	ppb	96
100) Hexachloroethane	12.72	117	1365	2.21	ppb	88
101) 1,2-Dibromo-3-chloropropan	13.22	157	426	1.62	ppb #	79
102) 1,2,4-Trichlorobenzene	14.06	182	2163	1.79	ppb #	84
103) Hexachlorobutadiene	14.26	225	1261	1.71	ppb	95
104) Naphthalene	14.30	128	5533	1.81	ppb	93
105) 1,2,3-Trichlorobenzene	14.55	182	3184	1.72	ppb #	75

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

1023T09.D T1023W.M

Thu Oct 24 10:00:28 2019

Data File : M:\THOR\DATA\T191023\1023T10.D
 Acq On : 23 Oct 19 21:26
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	183104	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	171200	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	96128	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	86276	24.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.780%	
45) 1,2-DCA-D4(S)	6.18	65	97911	24.78	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.104%	
66) Toluene-D8(S)	8.30	98	311553	24.37	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.476%	
74) 4-Bromofluorobenzene(S)	10.92	174	123213	24.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.376%	
Target Compounds						
3) Dichlorodifluoromethane	1.21	85	7047	4.15	ppb	Qvalue 100
4) Freon 114	1.32	85	3426	3.73	ppb	92
5) Chloromethane	1.36	50	6891	4.54	ppb	97
6) Vinyl chloride	1.46	62	5392	4.34	ppb	92
8) Bromomethane	1.75	96	3752	4.92	ppb	100
9) Chloroethane	1.86	64	4122	3.80	ppb	90
10) Dichlorofluoromethane	2.06	67	10226	4.54	ppb	92
11) Trichlorofluoromethane	2.12	101	9773	4.22	ppb	99
13) Acrolein	2.55	55	6587	93.99	ppb	94
14) Acetone	2.74	43	3112	6.90	ppb	91
15) Freon-113	2.70	101	4455	4.13	ppb	94
16) 1,1-DCE	2.66	61	7366	4.49	ppb	96
18) Acetonitrile	3.06	41	14951	99.89	ppb	97
19) t-Butanol	3.54	59	12184	100.25	ppb	95
20) Methyl Acetate	3.18	43	4022	4.10	ppb	97
21) Iodomethane	2.82	142	1130	4.26	ppb	96
22) Acrylonitrile	3.62	53	1849	4.41	ppb	# 79
23) Methylene chloride	3.27	49	6871	3.77	ppb	95
24) Carbon disulfide	2.89	76	12647	4.37	ppb	# 93
25) Methyl t-butyl ether (MtBE)	3.73	73	17467	4.24	ppb	95
26) Trans-1,2-DCE	3.68	61	7009	4.37	ppb	93
28) Diisopropyl Ether	4.55	45	6353	4.56	ppb	90
30) 1,1-DCA	4.32	63	4303	4.02	ppb	96
31) Vinyl Acetate	4.54	87	4879	4.04	ppb	84
32) Ethyl tert Butyl Ether	5.06	59	17047	4.54	ppb	# 89
33) MEK (2-Butanone)	5.23	43	2473	5.18	ppb	# 57
34) Cis-1,2-DCE	5.16	61	8972	4.62	ppb	# 84
35) 2,2-Dichloropropane	5.15	77	3565	4.40	ppb	95
38) Chloroform	5.60	83	5919	4.65	ppb	98
39) Bromochloromethane	5.47	130	2359	4.32	ppb	83
41) 1,1,1-TCA	5.81	97	4991	4.13	ppb	94
42) Cyclohexane	5.88	84	6309	4.31	ppb	80
43) 1,1-Dichloropropene	6.02	75	7151	4.47	ppb	96
44) 2,2,4-Trimethylpentane	6.41	57	4801	4.13	ppb	99
46) Carbon Tetrachloride	6.02	119	8319	3.96	ppb	83
47) Tert Amyl Methyl Ether	6.46	73	17800	4.67	ppb	97
49) 1,2-DCA	6.27	62	4860	3.72	ppb	96
50) Benzene	6.25	78	24326	4.67	ppb	97
51) TCE	7.01	130	7152	4.42	ppb	92

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T191023\1023T10.D
 Acq On : 23 Oct 19 21:26
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	80479	98.85	ppb	98
53) 1,2-Dichloropropane	7.23	63	5830	4.40	ppb #	84
54) Bromodichloromethane	7.54	83	9397	4.63	ppb #	98
55) Methyl Cyclohexane	7.22	83	7317	4.53	ppb	96
56) Dibromomethane	7.35	174	4797	3.82	ppb	91
57) MIBK (methyl isobutyl ket	9.05	43	2096	5.25	ppb #	86
58) 1-Bromo-2-chloroethane	7.85	63	7637	4.48	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	9274	4.37	ppb	97
61) Toluene	8.37	91	26261	4.45	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	5833	4.40	ppb	85
63) 1,1,2-TCA	8.77	97	6039	4.56	ppb	96
64) 2-Hexanone	8.20	43	2503	4.40	ppb	92
67) 1,2-EDB	9.26	107	4010	4.89	ppb	89
68) Tetrachloroethene	8.92	166	8026	4.95	ppb	98
69) 1-Chlorohexane	9.77	91	7147	4.60	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.86	131	7493	4.52	ppb	96
71) m&p-Xylene	10.02	91	44412	8.96	ppb	98
72) o-Xylene	10.41	91	23275	4.39	ppb	96
73) Styrene	10.42	104	16167	4.30	ppb	97
75) 1,3-Dichloropropane	8.93	76	10123	4.74	ppb	100
76) Dibromochloromethane	9.16	129	7218	4.29	ppb	94
77) Chlorobenzene	9.77	112	11774	4.66	ppb	100
78) Ethylbenzene	9.89	91	27457	4.44	ppb	96
79) Bromoform	10.58	173	6093	4.66	ppb	92
81) Isopropylbenzene	10.78	105	27436	4.65	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.06	83	7046	4.54	ppb #	94
83) 1,2,3-Trichloropropane	11.09	110	2559	4.29	ppb	89
84) t-1,4-Dichloro-2-Butene	11.12	53	1788	5.37	ppb #	61
85) Bromobenzene	11.06	77	7073	4.60	ppb	88
86) n-Propylbenzene	11.19	91	29626	4.51	ppb	97
87) 4-Ethyltoluene	11.31	105	26056	4.63	ppb	97
88) 2-Chlorotoluene	11.26	91	13299	4.89	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	23914	4.78	ppb	96
90) 4-Chlorotoluene	11.37	91	13927	4.50	ppb	97
91) Tert-Butylbenzene	11.69	119	23226	5.14	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	24100	4.69	ppb	95
93) Sec-Butylbenzene	11.91	105	26773	4.57	ppb	96
94) p-Isopropyltoluene	12.06	119	23556	4.58	ppb	96
95) Benzyl Chloride	12.22	91	5914	4.92	ppb	99
96) 1,3-DCB	12.00	146	9295	4.15	ppb	97
97) 1,4-DCB	12.09	146	15209	4.49	ppb	97
98) n-Butylbenzene	12.46	91	17108	4.38	ppb	97
99) 1,2-DCB	12.45	146	9205	4.52	ppb	96
100) Hexachloroethane	12.72	117	2949	4.71	ppb	96
101) 1,2-Dibromo-3-chloropropan	13.22	157	1225	5.34	ppb #	67
102) 1,2,4-Trichlorobenzene	14.06	182	5412	4.43	ppb	98
103) Hexachlorobutadiene	14.25	225	3450	4.61	ppb #	55
104) Naphthalene	14.30	128	13148	4.26	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	7810	4.45	ppb #	78

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

Quantitation Report

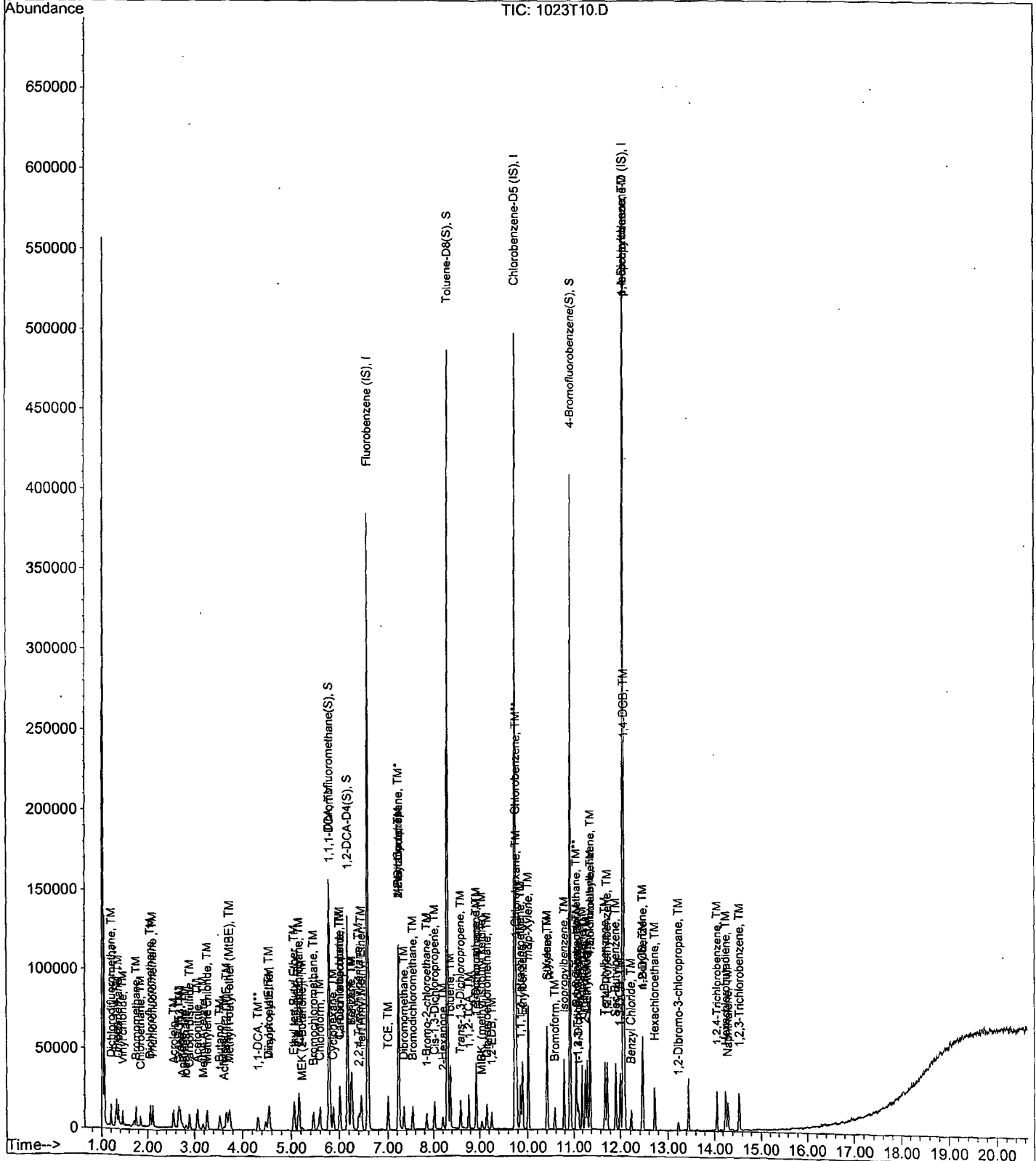
Data File : M:\THOR\DATA\T191023\1023T10.D
 Acq On : 23 Oct 19 21:26
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T11.D
 Acq On : 23 Oct 19 21:55
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178432	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	159872	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	97112	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	86393	25.12	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.476%	
45) 1,2-DCA-D4(S)	6.18	65	98312	25.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.112%	
66) Toluene-D8(S)	8.30	98	314020	26.30	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.208%	
74) 4-Bromofluorobenzene(S)	10.92	174	123099	26.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.180%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	14932	9.03	ppb	100
4) Freon 114	1.32	85	7672	10.34	ppb	100
5) Chloromethane	1.36	50	13913	10.59	ppb	100
6) Vinyl chloride	1.46	62	11629	9.61	ppb	100
8) Bromomethane	1.75	96	6929	9.57	ppb	100
9) Chloroethane	1.86	64	8442	9.63	ppb	100
10) Dichlorofluoromethane	2.06	67	21099	9.60	ppb	100
11) Trichlorofluoromethane	2.12	101	20797	9.22	ppb	100
13) Acrolein	2.55	55	8793	128.75	ppb	100
14) Acetone	2.74	43	4950	11.27	ppb	100
15) Freon-113	2.70	101	9462	10.12	ppb	100
16) 1,1-DCE	2.67	61	14233	8.91	ppb	100
18) Acetonitrile	3.06	41	18272	126.10	ppb	100
19) t-Butanol	3.53	59	14643	123.64	ppb	100
20) Methyl Acetate	3.18	43	8327	10.39	ppb	100
21) Iodomethane	2.82	142	6698	8.68	ppb	100
22) Acrylonitrile	3.62	53	4020	9.84	ppb	100
23) Methylene chloride	3.27	49	14626	10.05	ppb	100
24) Carbon disulfide	2.90	76	27007	9.83	ppb	100
25) Methyl t-butyl ether (MtBE)	3.73	73	36251	10.13	ppb	100
26) Trans-1,2-DCE	3.68	61	15076	9.64	ppb	100
28) Diisopropyl Ether	4.55	45	11939	8.79	ppb	100
30) 1,1-DCA	4.32	63	8893	9.98	ppb	100
31) Vinyl Acetate	4.54	87	10490	9.80	ppb	100
32) Ethyl tert Butyl Ether	5.06	59	37233	10.18	ppb	100
33) MEK (2-Butanone)	5.23	43	4883	10.51	ppb	100
34) Cis-1,2-DCE	5.16	61	18914	9.99	ppb	100
35) 2,2-Dichloropropane	5.16	77	7007	9.26	ppb	100
38) Chloroform	5.60	83	12348	9.95	ppb	100
39) Bromochloromethane	5.46	130	5202	9.77	ppb	100
41) 1,1,1-TCA	5.80	97	10621	10.21	ppb	100
42) Cyclohexane	5.88	84	12619	8.84	ppb	100
43) 1,1-Dichloropropene	6.02	75	14583	9.35	ppb	100
44) 2,2,4-Trimethylpentane	6.41	57	10115	9.30	ppb	100
46) Carbon Tetrachloride	6.01	119	17586	9.45	ppb	100
47) Tert Amyl Methyl Ether	6.46	73	35058	9.44	ppb	100
49) 1,2-DCA	6.27	62	9957	9.19	ppb	100
50) Benzene	6.25	78	47545	9.36	ppb	100
51) TCE	7.01	130	14677	9.32	ppb	100

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

Data File : M:\THOR\DATA\T191023\1023T11.D
 Acq On : 23 Oct 19 21:55
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	98031	123.56	ppb	100
53) 1,2-Dichloropropane	7.23	63	12213	9.46	ppb	100
54) Bromodichloromethane	7.54	83	19074	9.65	ppb	100
55) Methyl Cyclohexane	7.22	83	14678	9.33	ppb	100
56) Dibromomethane	7.35	174	10360	9.04	ppb	100
57) MIBK (methyl isobutyl ket	9.05	43	3951	9.67	ppb	100
58) 1-Bromo-2-chloroethane	7.85	63	16743	10.07	ppb	100
60) Cis-1,3-Dichloropropene	8.02	75	20283	9.82	ppb	100
61) Toluene	8.37	91	55194	9.59	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	12534	9.70	ppb	100
63) 1,1,2-TCA	8.77	97	13065	10.12	ppb	100
64) 2-Hexanone	8.20	43	5964	9.85	ppb	100
67) 1,2-EDB	9.26	107	7535	9.84	ppb	100
68) Tetrachloroethene	8.92	166	16538	10.92	ppb	100
69) 1-Chlorohexane	9.78	91	14226	10.24	ppb	100
70) 1,1,1,2-Tetrachloroethane	9.86	131	15300	9.89	ppb	100
71) m&p-Xylene	10.02	91	94120	20.33	ppb	100
72) o-Xylene	10.40	91	51227	10.35	ppb	100
73) Styrene	10.42	104	35722	10.18	ppb	100
75) 1,3-Dichloropropane	8.93	76	20155	10.11	ppb	100
76) Dibromochloromethane	9.15	129	16704	10.78	ppb	100
77) Chlorobenzene	9.77	112	24896	10.56	ppb	100
78) Ethylbenzene	9.90	91	58576	10.14	ppb	100
79) Bromoform	10.58	173	13279	10.61	ppb	100
81) Isopropylbenzene	10.78	105	60153	10.08	ppb	100
82) 1,1,2,2-Tetrachloroethane	11.05	83	16130	10.28	ppb	100
83) 1,2,3-Trichloropropane	11.09	110	5570	10.50	ppb	100
84) t-1,4-Dichloro-2-Butene	11.12	53	3236	10.26	ppb	100
85) Bromobenzene	11.06	77	15582	10.02	ppb	100
86) n-Propylbenzene	11.19	91	63613	9.59	ppb	100
87) 4-Ethyltoluene	11.31	105	55797	9.81	ppb	100
88) 2-Chlorotoluene	11.26	91	26018	9.46	ppb	100
89) 1,3,5-Trimethylbenzene	11.37	105	50646	10.01	ppb	100
90) 4-Chlorotoluene	11.37	91	31560	10.09	ppb	100
91) Tert-Butylbenzene	11.69	119	43879	9.61	ppb	100
92) 1,2,4-Trimethylbenzene	11.74	105	50506	9.74	ppb	100
93) Sec-Butylbenzene	11.91	105	58662	9.91	ppb	100
94) p-Isopropyltoluene	12.06	119	53371	10.27	ppb	100
95) Benzyl Chloride	12.22	91	11283	9.30	ppb	100
96) 1,3-DCB	12.00	146	21112	9.34	ppb	100
97) 1,4-DCB	12.09	146	31903	9.32	ppb	100
98) n-Butylbenzene	12.46	91	37788	9.57	ppb	100
99) 1,2-DCB	12.45	146	20424	9.93	ppb	100
100) Hexachloroethane	12.72	117	6566	10.39	ppb	100
101) 1,2-Dibromo-3-chloropropan	13.22	157	2059	9.16	ppb	100
102) 1,2,4-Trichlorobenzene	14.06	182	12002	9.73	ppb	100
103) Hexachlorobutadiene	14.25	225	7655	10.13	ppb	100
104) Naphthalene	14.30	128	28762	9.22	ppb	100
105) 1,2,3-Trichlorobenzene	14.54	182	15183	8.74	ppb	100

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

Quantitation Report

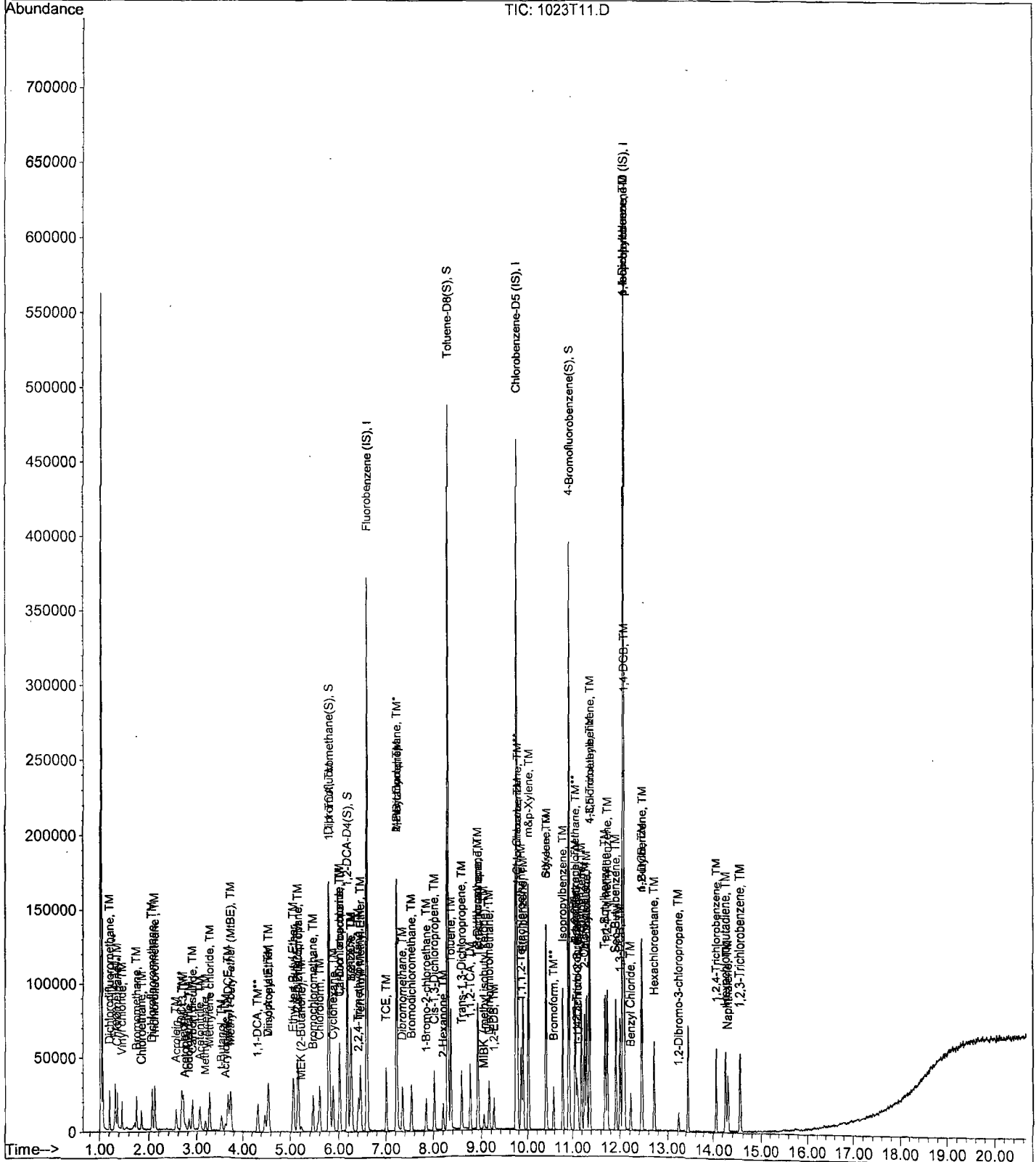
Data File : M:\THOR\DATA\T191023\1023T11.D
Acq On : 23 Oct 19 21:55
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T191023\1023T12.D
 Acq On : 23 Oct 19 22:23
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	180864	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	175808	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	103912	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	175433	50.32	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.288%	
45) 1,2-DCA-D4(S)	6.18	65	197560	50.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.440%	
66) Toluene-D8(S)	8.30	98	624922	47.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.396%	
74) 4-Bromofluorobenzene(S)	10.92	174	252217	48.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	194.104%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	32288	19.26	ppb	97
4) Freon 114	1.32	85	15354	21.74	ppb	96
5) Chloromethane	1.36	50	25641	20.15	ppb	100
6) Vinyl chloride	1.46	62	22773	18.57	ppb	100
8) Bromomethane	1.75	96	14084	19.47	ppb	95
9) Chloroethane	1.85	64	16775	20.31	ppb	100
10) Dichlorofluoromethane	2.06	67	43411	19.49	ppb	96
11) Trichlorofluoromethane	2.12	101	44383	19.42	ppb	95
13) Acrolein	2.55	55	9785	141.35	ppb	92
14) Acetone	2.74	43	8290	18.61	ppb	97
15) Freon-113	2.69	101	19524	21.58	ppb	94
16) 1,1-DCE	2.67	61	32010	19.76	ppb	93
18) Acetonitrile	3.06	41	22103	151.11	ppb	# 88
19) t-Butanol	3.54	59	17879	148.94	ppb	# 93
20) Methyl Acetate	3.18	43	16422	21.63	ppb	90
21) Iodomethane	2.82	142	18596	17.90	ppb	96
22) Acrylonitrile	3.62	53	8318	20.08	ppb	98
23) Methylene chloride	3.27	49	29061	21.18	ppb	94
24) Carbon disulfide	2.89	76	53453	19.39	ppb	95
25) Methyl t-butyl ether (MtBE)	3.73	73	71271	20.58	ppb	# 94
26) Trans-1,2-DCE	3.67	61	30537	19.27	ppb	96
28) Diisopropyl Ether	4.55	45	27088	19.67	ppb	93
30) 1,1-DCA	4.32	63	18088	21.33	ppb	96
31) Vinyl Acetate	4.54	87	21636	20.70	ppb	98
32) Ethyl tert Butyl Ether	5.06	59	74470	20.10	ppb	96
33) MEK (2-Butanone)	5.22	43	9649	20.48	ppb	# 90
34) Cis-1,2-DCE	5.16	61	38891	20.27	ppb	97
35) 2,2-Dichloropropane	5.15	77	15543	20.72	ppb	95
38) Chloroform	5.60	83	25136	19.99	ppb	96
39) Bromochloromethane	5.46	130	10607	19.65	ppb	92
41) 1,1,1-TCA	5.80	97	20576	20.43	ppb	89
42) Cyclohexane	5.88	84	26588	18.37	ppb	90
43) 1,1-Dichloropropene	6.02	75	30088	19.04	ppb	94
44) 2,2,4-Trimethylpentane	6.41	57	22144	20.47	ppb	99
46) Carbon Tetrachloride	6.01	119	37078	20.44	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	73559	19.54	ppb	98
49) 1,2-DCA	6.27	62	22504	22.02	ppb	96
50) Benzene	6.25	78	97763	19.00	ppb	97
51) TCE	7.01	130	29788	18.66	ppb	95

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

Data File : M:\THOR\DATA\T191023\1023T12.D
 Acq On : 23 Oct 19 22:23
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	124053	154.25	ppb	96
53) 1,2-Dichloropropane	7.23	63	24827	18.98	ppb	100
54) Bromodichloromethane	7.54	83	39295	19.62	ppb #	94
55) Methyl Cyclohexane	7.22	83	30988	19.43	ppb	98
56) Dibromomethane	7.35	174	23876	21.17	ppb	96
57) MIBK (methyl isobutyl ket	9.05	43	7826	18.40	ppb	95
58) 1-Bromo-2-chloroethane	7.85	63	33960	20.15	ppb	97
60) Cis-1,3-Dichloropropene	8.02	75	39658	18.93	ppb	96
61) Toluene	8.36	91	113096	19.39	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	25936	19.81	ppb	100
63) 1,1,2-TCA	8.77	97	25504	19.50	ppb	99
64) 2-Hexanone	8.20	43	12225	19.26	ppb	96
67) 1,2-EDB	9.26	107	16136	19.17	ppb	87
68) Tetrachloroethene	8.92	166	33107	19.88	ppb	96
69) 1-Chlorohexane	9.77	91	30211	20.12	ppb	97
70) 1,1,1,2-Tetrachloroethane	9.86	131	31868	18.73	ppb	98
71) m&p-Xylene	10.02	91	196759	38.64	ppb	99
72) o-Xylene	10.40	91	102100	18.76	ppb	97
73) Styrene	10.42	104	73591	19.06	ppb	100
75) 1,3-Dichloropropane	8.93	76	41806	19.06	ppb	97
76) Dibromochloromethane	9.15	129	33143	19.54	ppb	99
77) Chlorobenzene	9.77	112	48784	18.82	ppb	97
78) Ethylbenzene	9.90	91	122474	19.27	ppb	99
79) Bromoform	10.58	173	27267	19.65	ppb	91
81) Isopropylbenzene	10.78	105	119982	18.79	ppb	97
82) 1,1,2,2-Tetrachloroethane	11.05	83	33329	19.86	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	11514	21.30	ppb #	88
84) t-1,4-Dichloro-2-Butene	11.12	53	6726	20.70	ppb	93
85) Bromobenzene	11.05	77	30824	18.53	ppb	92
86) n-Propylbenzene	11.19	91	134615	18.97	ppb	97
87) 4-Ethyltoluene	11.31	105	116893	19.20	ppb	98
88) 2-Chlorotoluene	11.26	91	56665	19.26	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	106438	19.66	ppb	97
90) 4-Chlorotoluene	11.37	91	65432	19.54	ppb	96
91) Tert-Butylbenzene	11.69	119	92727	18.98	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	106050	19.10	ppb	100
93) Sec-Butylbenzene	11.91	105	121580	19.20	ppb	99
94) p-Isopropyltoluene	12.06	119	110194	19.82	ppb	98
95) Benzyl Chloride	12.22	91	24960	19.22	ppb	96
96) 1,3-DCB	12.00	146	43120	17.83	ppb	99
97) 1,4-DCB	12.09	146	66795	18.23	ppb	94
98) n-Butylbenzene	12.47	91	82217	19.46	ppb	94
99) 1,2-DCB	12.46	146	41000	18.63	ppb	100
100) Hexachloroethane	12.72	117	12173	18.00	ppb	86
101) 1,2-Dibromo-3-chloropropan	13.22	157	4549	19.35	ppb #	86
102) 1,2,4-Trichlorobenzene	14.06	182	25808	19.54	ppb	96
103) Hexachlorobutadiene	14.25	225	14803	18.31	ppb	89
104) Naphthalene	14.30	128	66553	19.93	ppb	100
105) 1,2,3-Trichlorobenzene	14.54	182	36151	19.68	ppb	84

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

1023T12.D T1023W.M

Thu Oct 24 10:00:41 2019

Quantitation Report

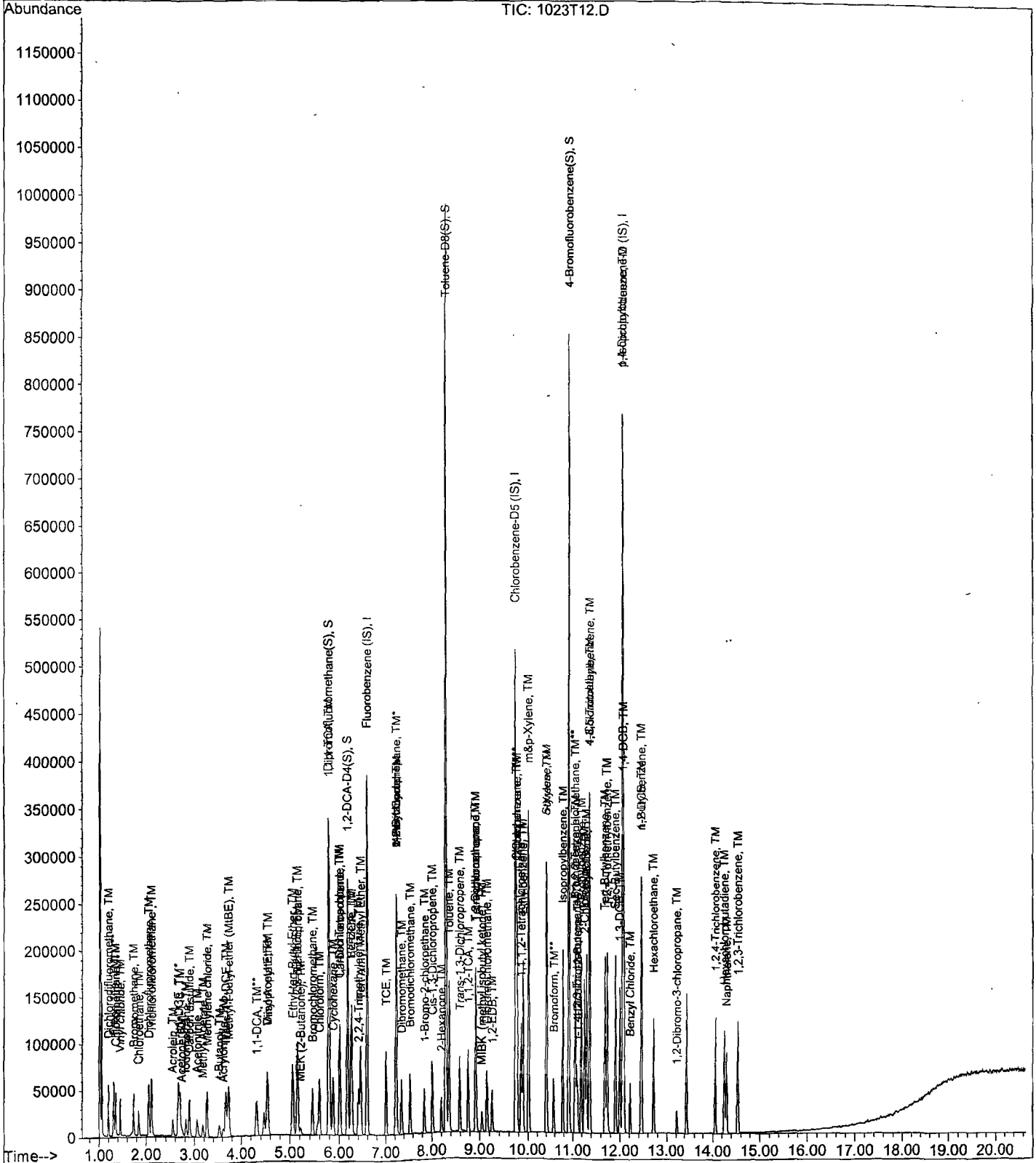
Data File : M:\THOR\DATA\T191023\1023T12.D
Acq On : 23 Oct 19 22:23
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T13.D
 Acq On : 23 Oct 19 22:52
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	169472	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	101648	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	174185	50.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.652%	
45) 1,2-DCA-D4(S)	6.18	65	193525	50.27	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.080%	
66) Toluene-D8(S)	8.30	98	644008	50.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.544%	
74) 4-Bromofluorobenzene(S)	10.92	174	254916	50.88	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.516%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	63760	38.56	ppb	95
4) Freon 114	1.32	85	29000	42.87	ppb	96
5) Chloromethane	1.36	50	51152	41.89	ppb	99
6) Vinyl chloride	1.46	62	46109	38.12	ppb	98
8) Bromomethane	1.74	96	28488	40.22	ppb	94
9) Chloroethane	1.85	64	31831	40.46	ppb	97
10) Dichlorofluoromethane	2.06	67	88454	40.27	ppb	97
11) Trichlorofluoromethane	2.11	101	89037	39.50	ppb	97
13) Acrolein	2.55	55	11710	171.52	ppb	99
14) Acetone	2.74	43	14990	34.13	ppb	96
15) Freon-113	2.70	101	37981	43.49	ppb	# 93
16) 1,1-DCE	2.66	61	62037	38.83	ppb	96
18) Acetonitrile	3.06	41	25122	174.65	ppb	98
19) t-Butanol	3.54	59	20185	170.50	ppb	97
20) Methyl Acetate	3.18	43	31651	43.69	ppb	95
21) Iodomethane	2.82	142	44603	38.69	ppb	97
22) Acrylonitrile	3.62	53	16801	41.12	ppb	93
23) Methylene chloride	3.27	49	59157	45.35	ppb	93
24) Carbon disulfide	2.89	76	111137	41.12	ppb	97
25) Methyl t-butyl ether (MtBE)	3.73	73	145366	43.62	ppb	95
26) Trans-1,2-DCE	3.67	61	64627	41.36	ppb	100
28) Diisopropyl Ether	4.54	45	52598	38.74	ppb	97
30) 1,1-DCA	4.32	63	35560	43.80	ppb	97
31) Vinyl Acetate	4.54	87	44516	43.98	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	150408	41.16	ppb	92
33) MEK (2-Butanone)	5.22	43	20713	44.58	ppb	# 85
34) Cis-1,2-DCE	5.16	61	79565	42.05	ppb	99
35) 2,2-Dichloropropane	5.15	77	32216	43.95	ppb	96
38) Chloroform	5.60	83	50728	40.90	ppb	98
39) Bromochloromethane	5.46	130	20600	38.70	ppb	93
41) 1,1,1-TCA	5.80	97	42512	43.91	ppb	91
42) Cyclohexane	5.88	84	55927	39.18	ppb	87
43) 1,1-Dichloropropene	6.02	75	63308	40.62	ppb	90
44) 2,2,4-Trimethylpentane	6.41	57	44048	41.62	ppb	99
46) Carbon Tetrachloride	6.01	119	79257	45.17	ppb	88
47) Tert Amyl Methyl Ether	6.45	73	152156	40.97	ppb	99
49) 1,2-DCA	6.27	62	42800	43.61	ppb	96
50) Benzene	6.25	78	197816	38.98	ppb	96
51) TCE	7.00	130	62914	39.96	ppb	96

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

Data File : M:\THOR\DATA\T191023\1023T13.D
 Acq On : 23 Oct 19 22:52
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	143761	181.26	ppb	99
53) 1,2-Dichloropropane	7.23	63	51484	39.91	ppb	95
54) Bromodichloromethane	7.54	83	78938	39.97	ppb	96
55) Methyl Cyclohexane	7.22	83	61467	39.08	ppb	97
56) Dibromomethane	7.35	174	49408	44.96	ppb	97
57) MIBK (methyl isobutyl ket	9.05	43	16584	38.93	ppb	92
58) 1-Bromo-2-chloroethane	7.85	63	69691	41.92	ppb	92
60) Cis-1,3-Dichloropropene	8.02	75	84020	40.68	ppb	97
61) Toluene	8.37	91	232623	40.43	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	53280	41.27	ppb	97
63) 1,1,2-TCA	8.77	97	51015	39.54	ppb	95
64) 2-Hexanone	8.20	43	24520	38.52	ppb	96
67) 1,2-EDB	9.26	107	32704	40.30	ppb	89
68) Tetrachloroethene	8.92	166	68825	42.87	ppb	96
69) 1-Chlorohexane	9.77	91	58810	41.01	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	67043	40.89	ppb	97
71) m&p-Xylene	10.02	91	416560	84.87	ppb	100
72) o-Xylene	10.40	91	218808	41.71	ppb	95
73) Styrene	10.42	104	161433	43.38	ppb	96
75) 1,3-Dichloropropane	8.93	76	82807	39.17	ppb	98
76) Dibromochloromethane	9.16	129	68039	41.72	ppb	98
77) Chlorobenzene	9.77	112	101480	40.61	ppb	96
78) Ethylbenzene	9.90	91	254015	41.47	ppb	96
79) Bromoform	10.58	173	54091	40.23	ppb	95
81) Isopropylbenzene	10.78	105	258833	41.44	ppb	97
82) 1,1,2,2-Tetrachloroethane	11.06	83	64889	39.53	ppb	98
83) 1,2,3-Trichloropropane	11.09	110	22702	44.03	ppb	85
84) t-1,4-Dichloro-2-Butene	11.12	53	13317	42.74	ppb	94
85) Bromobenzene	11.06	77	65704	40.38	ppb	92
86) n-Propylbenzene	11.19	91	284550	41.00	ppb	99
87) 4-Ethyltoluene	11.31	105	257138	43.17	ppb	99
88) 2-Chlorotoluene	11.26	91	117349	40.78	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	226201	42.72	ppb	99
90) 4-Chlorotoluene	11.37	91	146368	44.69	ppb	96
91) Tert-Butylbenzene	11.69	119	196787	41.18	ppb	97
92) 1,2,4-Trimethylbenzene	11.74	105	227965	41.98	ppb	96
93) Sec-Butylbenzene	11.91	105	262624	42.40	ppb	100
94) p-Isopropyltoluene	12.06	119	238398	43.83	ppb	99
95) Benzyl Chloride	12.22	91	51064	40.20	ppb	96
96) 1,3-DCB	12.00	146	89560	37.85	ppb	97
97) 1,4-DCB	12.09	146	141760	39.56	ppb	98
98) n-Butylbenzene	12.47	91	183127	44.31	ppb	96
99) 1,2-DCB	12.46	146	89128	41.40	ppb	98
100) Hexachloroethane	12.72	117	27632	41.77	ppb	99
101) 1,2-Dibromo-3-chloropropan	13.22	157	9753	42.89	ppb	82
102) 1,2,4-Trichlorobenzene	14.06	182	55408	42.90	ppb	97
103) Hexachlorobutadiene	14.25	225	33920	42.89	ppb	96
104) Naphthalene	14.30	128	147855	45.27	ppb	99
105) 1,2,3-Trichlorobenzene	14.55	182	79646	44.56	ppb	85

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

1023T13.D T1023W.M

Thu Oct 24 10:00:46 2019

Quantitation Report

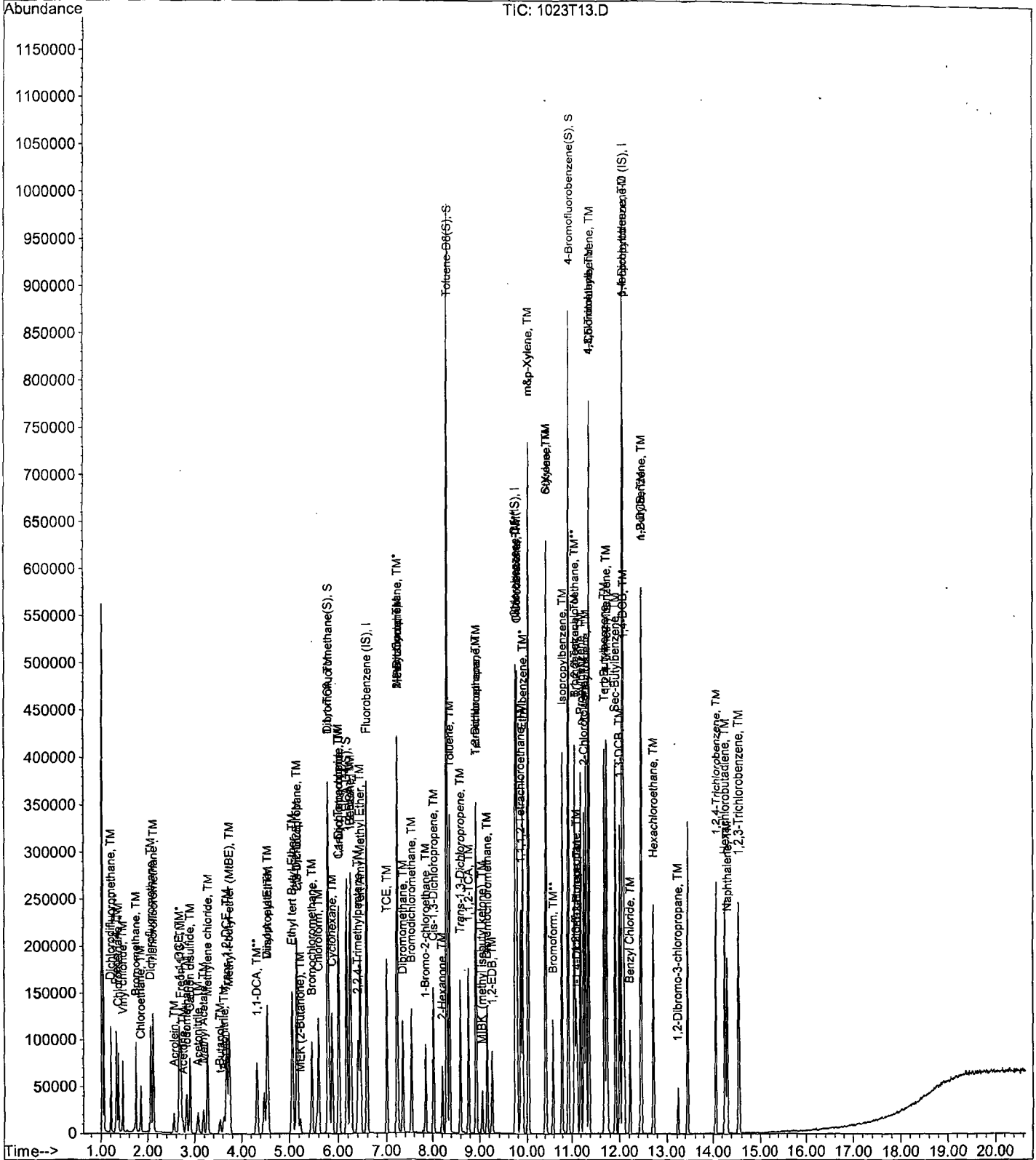
Data File : M:\THOR\DATA\T191023\1023T13.D
Acq On : 23 Oct 19 22:52
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T14.D Vial: 14
 Acq On : 23 Oct 19 23:20 Operator:
 Sample : 100ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177408	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	165184	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	110936	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	323935	94.73	ppb	0.00
Spiked Amount 25.000			Recovery =	378.912%		
45) 1,2-DCA-D4(S)	6.18	65	358548	93.64	ppb	0.00
Spiked Amount 25.000			Recovery =	374.564%		
66) Toluene-D8(S)	8.30	98	1198840	97.19	ppb	0.00
Spiked Amount 25.000			Recovery =	388.740%		
74) 4-Bromofluorobenzene(S)	10.92	174	507561	103.93	ppb	0.00
Spiked Amount 25.000			Recovery =	415.736%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	161280	98.07	ppb	94
4) Freon 114	1.32	85	65160	98.56	ppb	98
5) Chloromethane	1.36	50	118541	99.05	ppb	98
6) Vinyl chloride	1.46	62	115637	96.12	ppb	97
8) Bromomethane	1.74	96	70192	100.05	ppb	95
9) Chloroethane	1.84	64	76471	99.85	ppb	98
10) Dichlorofluoromethane	2.06	67	192115	87.94	ppb	95
11) Trichlorofluoromethane	2.11	101	216549	96.59	ppb	94
13) Acrolein	2.55	55	15173	223.45	ppb	84
14) Acetone	2.75	43	30975	70.91	ppb	99
15) Freon-113	2.69	101	84420	98.35	ppb	90
16) 1,1-DCE	2.66	61	138039	86.87	ppb	98
18) Acetonitrile	3.07	41	28302	198.25	ppb	98
19) t-Butanol	3.56	59	24074	204.45	ppb	90
20) Methyl Acetate	3.18	43	69485	98.24	ppb	100
21) Iodomethane	2.82	142	122737	101.05	ppb	98
22) Acrylonitrile	3.62	53	38523	94.80	ppb	89
23) Methylene chloride	3.27	49	124543	97.71	ppb	94
24) Carbon disulfide	2.89	76	244994	91.39	ppb	97
25) Methyl t-butyl ether (MtBE)	3.73	73	322426	98.48	ppb	96
26) Trans-1,2-DCE	3.67	61	137420	88.41	ppb	95
28) Diisopropyl Ether	4.55	45	119684	88.62	ppb	95
30) 1,1-DCA	4.32	63	78104	98.29	ppb	97
31) Vinyl Acetate	4.55	87	98071	98.30	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	331724	91.26	ppb	92
33) MEK (2-Butanone)	5.22	43	45284	97.99	ppb	# 90
34) Cis-1,2-DCE	5.16	61	172748	91.79	ppb	96
35) 2,2-Dichloropropane	5.15	77	70056	96.54	ppb	94
38) Chloroform	5.60	83	110152	89.29	ppb	99
39) Bromochloromethane	5.46	130	44816	84.64	ppb	90
41) 1,1,1-TCA	5.80	97	93568	98.40	ppb	93
42) Cyclohexane	5.88	84	124790	87.89	ppb	86
43) 1,1-Dichloropropene	6.02	75	136901	88.30	ppb	93
44) 2,2,4-Trimethylpentane	6.41	57	104128	99.37	ppb	99
46) Carbon Tetrachloride	6.01	119	169517	97.97	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	334682	90.62	ppb	99
49) 1,2-DCA	6.27	62	94504	98.32	ppb	98
50) Benzene	6.25	78	440766	87.32	ppb	99
51) TCE	7.00	130	135158	86.30	ppb	96

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

Data File : M:\THOR\DATA\T191023\1023T14.D
 Acq On : 23 Oct 19 23:20
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	164997	209.16	ppb	98
53) 1,2-Dichloropropane	7.23	63	115843	90.29	ppb	98
54) Bromodichloromethane	7.54	83	177908	90.56	ppb #	98
55) Methyl Cyclohexane	7.22	83	141548	90.49	ppb	93
56) Dibromomethane	7.35	174	106467	97.96	ppb	95
57) MIBK (methyl isobutyl ket	9.05	43	43040	100.75	ppb	90
58) 1-Bromo-2-chloroethane	7.85	63	152471	92.22	ppb	95
60) Cis-1,3-Dichloropropene	8.02	75	188241	91.63	ppb	96
61) Toluene	8.37	91	520145	90.90	ppb	99
62) Trans-1,3-Dichloropropene	8.59	75	121088	94.29	ppb	100
63) 1,1,2-TCA	8.77	97	114901	89.55	ppb	97
64) 2-Hexanone	8.20	43	64448	100.76	ppb	95
67) 1,2-EDB	9.26	107	74256	93.88	ppb	91
68) Tetrachloroethene	8.92	166	149403	95.48	ppb	94
69) 1-Chlorohexane	9.77	91	138433	99.58	ppb	99
70) 1,1,1,2-Tetrachloroethane	9.86	131	150233	94.00	ppb	98
71) m&p-Xylene	10.02	91	930569	194.51	ppb	99
72) o-Xylene	10.41	91	497624	97.32	ppb	96
73) Styrene	10.42	104	378992	104.49	ppb	97
75) 1,3-Dichloropropane	8.93	76	186261	90.40	ppb	99
76) Dibromochloromethane	9.16	129	157727	99.37	ppb	96
77) Chlorobenzene	9.77	112	229120	94.07	ppb	96
78) Ethylbenzene	9.90	91	572206	95.84	ppb	97
79) Bromoform	10.58	173	131325	99.93	ppb	93
81) Isopropylbenzene	10.78	105	584266	85.72	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	161391	90.08	ppb	98
83) 1,2,3-Trichloropropane	11.09	110	54492	98.15	ppb	87
84) t-1,4-Dichloro-2-Butene	11.12	53	33220	98.75	ppb	96
85) Bromobenzene	11.06	77	158592	89.31	ppb	95
86) n-Propylbenzene	11.19	91	662551	87.46	ppb	99
87) 4-Ethyltoluene	11.31	105	593199	91.26	ppb	100
88) 2-Chlorotoluene	11.26	91	280887	89.44	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	530500	91.80	ppb	99
90) 4-Chlorotoluene	11.37	91	329856	92.29	ppb	97
91) Tert-Butylbenzene	11.69	119	458246	87.86	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	537692	90.73	ppb	98
93) Sec-Butylbenzene	11.91	105	619321	91.62	ppb	100
94) p-Isopropyltoluene	12.06	119	566466	95.43	ppb	99
95) Benzyl Chloride	12.22	91	146752	105.86	ppb	98
96) 1,3-DCB	12.00	146	219392	84.95	ppb	98
97) 1,4-DCB	12.09	146	345218	88.27	ppb	98
98) n-Butylbenzene	12.46	91	442939	98.20	ppb	97
99) 1,2-DCB	12.46	146	223488	95.11	ppb	99
100) Hexachloroethane	12.72	117	72808	100.84	ppb	98
101) 1,2-Dibromo-3-chloropropan	13.22	157	24448	99.05	ppb #	81
102) 1,2,4-Trichlorobenzene	14.06	182	138944	98.56	ppb	95
103) Hexachlorobutadiene	14.25	225	85720	99.32	ppb	97
104) Naphthalene	14.30	128	367747	103.17	ppb	99
105) 1,2,3-Trichlorobenzene	14.54	182	191498	98.40	ppb	84

(#) = qualifier out of range (m) = manual integration
 1023T14.D T1023W.M Thu Oct 24 10:50:50 2019

Quantitation Report

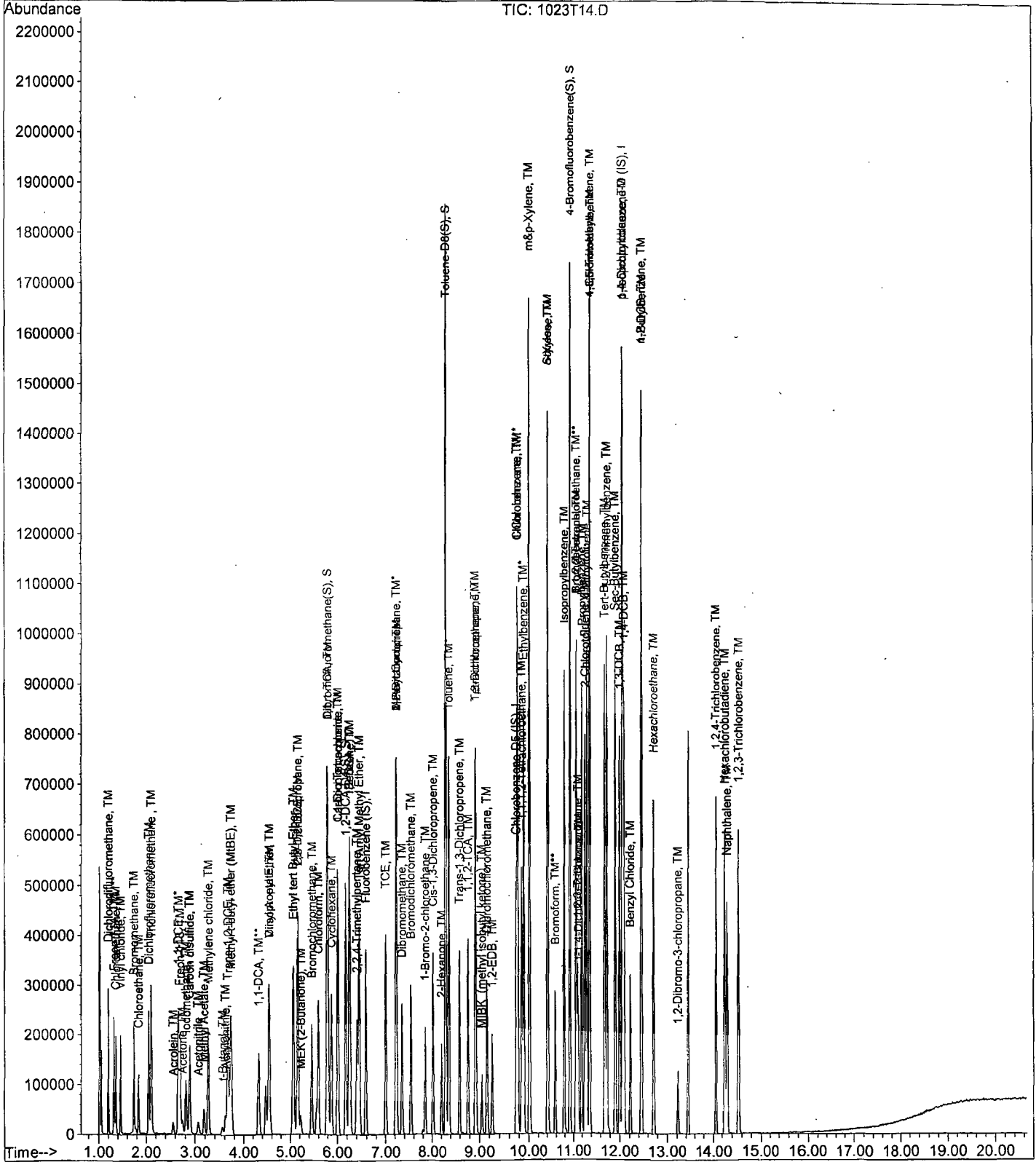
Data File : M:\THOR\DATA\T191023\1023T14.D
Acq On : 23 Oct 19 23:20
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Thor
Initial Cal. Date: 10/23/19
Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Dichlorodifluoromethane	0.2318	0.2193	5.4	TM	
2	TML	Freon 114	0.1167	0.1499	28	TML	49 * NT
3	TM**L	Chloromethane	0.2206	0.1984	10	TM**L	7.9
4	TM*	Vinyl chloride	0.1695	0.1774	4.7	TM*	
5	TM	2-Chloro-1,1,1-trifluoroethane	0.0000	0.0033	0.00	TM	
6	TML	Bromomethane	0.1168	0.1128	3.5	TML	12
7	TML	Chloroethane	0.2026	0.1323	35	TML	9.5
8	TM	Dichlorofluoromethane	0.3078	0.3001	2.5	TM	
9	TM	Trichlorofluoromethane	0.3159	0.2995	5.2	TM	
10	TM	Acrolein	0.0096	0.0112	18	TM	
11	TML	Acetone	0.0616	0.0554	10.0	TML	10.0
12	TML	Freon-113	0.1219	0.1457	20	TML	12
13	TM*	1,1-DCE	0.2239	0.2001	11	TM*	
14	TM	2-Propanol	0.0000	0.0000	0.00	TM	
15	TML	Acetonitrile	0.0207	0.0162	22	TML	21 * NT
16	TM	t-Butanol	0.0166	0.0133	20	TM	
17	TML	Methyl Acetate	0.1249	0.1273	1.9	TML	15
18	TML	Iodomethane	0.0951	0.0641	33	TML	30 * NT
19	TM	Acrylonitrile	0.0573	0.0640	12	TM	
20	TML	Methylene chloride	0.2241	0.1875	16	TML	9.4
21	TML	Carbon disulfide	0.4208	0.4590	9.1	TML	20
22	TML	Methyl t-butyl ether (MtBE)	0.5335	0.5214	2.3	TML	4.3
23	TM	Trans-1,2-DCE	0.2190	0.2083	4.9	TM	
24	TM	Diisopropyl Ether	0.1903	0.1867	1.9	TM	
25	TM**L	1,1-DCA	0.1356	0.1114	18	TM**L	12
26	TML	Vinyl Acetate	0.1447	0.1570	8.5	TML	5.2
27	TM	Ethyl tert Butyl Ether	0.5122	0.5159	0.73	TM	
28	TML	MEK (2-Butanone)	0.0768	0.0670	13	TML	2.8
29	TM	Cis-1,2-DCE	0.2652	0.2502	5.7	TM	
30	TML	2,2-Dichloropropane	0.1205	0.1062	12	TML	0.49
31	TM	3-Methylpentane	0.0000	0.1118	0.00	TM	
32	TM*	Chloroform	0.1738	0.1625	6.5	TM*	
33	TM	Bromochloromethane	0.0746	0.0630	16	TM	
34	TML	1,1,1-TCA	0.1555	0.1321	15	TML	11
35	TM	Cyclohexane	0.2001	0.2050	2.5	TM	
36	TM	1,1-Dichloropropene	0.2185	0.1948	11	TM	
37	TML	2,2,4-Trimethylpentane	0.1692	0.1696	0.19	TML	12
38	TML	Carbon Tetrachloride	0.2432	0.2335	4.0	TML	11
39	TM	Tert Amyl Methyl Ether	0.5205	0.5251	0.89	TM	
40	TM	Methylcyclopentane	0.0000	0.0302	0.00	TM	

Average

9.8

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Thor
Cal. Date: 10/23/19
Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift
41	TML	1,2-DCA	0.1715	0.1289	25	TML 16
42	TM	Benzene	0.7114	0.6162	13	TM
43	TM	TCE	0.2207	0.1896	14	TM
44	TM	2-Pentanone	0.1112	0.0883	21	TM
45	TM*	1,2-Dichloropropane	0.1808	0.1591	12	TM*
46	TM	Bromodichloromethane	0.2768	0.2438	12	TM
47	TM	Methyl Cyclohexane	0.2204	0.2355	6.8	TM
48	TML	Dibromomethane	0.1389	0.1511	8.8	TML 5.7
49	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0468	25	TML 17
50	TM	1-Bromo-2-chloroethane	0.2330	0.2366	1.5	TM
51	TM	2-Chloroethyl vinyl ether	0.0000	0.0003	0.00	TM
52	TM	Cis-1,3-Dichloropropene	0.2895	0.2553	12	TM
53	TM*	Toluene	0.8064	0.7207	11	TM*
54	TM	Trans-1,3-Dichloropropene	0.1810	0.1646	9.1	TM
55	TM	1,1,2-TCA	0.1808	0.1646	9.0	TM
56	TML	2-Hexanone	0.0907	0.0766	16	TML 9.2
57	TM	1,2-EDB	0.1197	0.1061	11	TM
58	TM	Tetrachloroethene	0.2368	0.2406	1.6	TM
59	TML	1-Chlorohexane	0.2307	0.2346	1.7	TML 8.2
60	TM	1,1,1,2-Tetrachloroethane	0.2419	0.2138	12	TM
61	TM	m&p-Xylene	0.7241	0.6656	8.1	TM
62	TM	o-Xylene	0.7739	0.7175	7.3	TM
63	TM	Styrene	0.5490	0.5082	7.4	TM
64	TM	1,3-Dichloropropane	0.3118	0.2867	8.1	TM
65	TML	Dibromochloromethane	0.2170	0.2142	1.3	TML 12
66	TM**	Chlorobenzene	0.3686	0.3346	9.2	TM**
67	TM*	Ethylbenzene	0.9036	0.8620	4.6	TM*
68	TM**L	Bromoform	0.1737	0.1747	0.52	TM**L 10
69	TM	Isopropylbenzene	1.536	1.414	7.9	TM
70	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.3702	8.3	TM**
71	TML	1,2,3-Trichloropropane	0.1253	0.1278	2.0	TML 7.6
72	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0898	24	TML 11
73	TM	Bromobenzene	0.4002	0.3609	9.8	TM
74	TM	n-Propylbenzene	1.707	1.544	9.6	TM
75	TM	4-Ethyltoluene	1.465	1.535	4.8	TM
76	TM	2-Chlorotoluene	0.7078	0.6820	3.6	TM
77	TM	1,3,5-Trimethylbenzene	1.302	1.250	4.0	TM
78	TM	4-Chlorotoluene	0.8054	0.7723	4.1	TM
79	TM	Tert-Butylbenzene	1.175	1.037	12	TM
80	TM	1,2,4-Trimethylbenzene	1.336	1.253	6.2	TM
		Average			9.1	

* NT

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/19
Instrument: Thor
Cal. Date: 10/23/19
Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Sec-Butylbenzene	1.523	1.403	7.9	TM
82	TM	p-Isopropyltoluene	1.338	1.290	3.6	TM
83	TM	Benzyl Chloride	0.3124	0.2611	16	TM
84	TM	1,3-DCB	0.5820	0.5032	14	TM
85	TM	1,4-DCB	0.8814	0.7951	9.8	TM
86	TM	n-Butylbenzene	1.016	1.002	1.4	TM
87	TM	1,2-DCB	0.5295	0.4923	7.0	TM
88	TM	Hexachloroethane	0.1627	0.1495	8.1	TM
89	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0560	10	TML 3.0
90	TM	1,2,4-Trichlorobenzene	0.3177	0.3716	17	TM
91	TM	Hexachlorobutadiene	0.1945	0.1920	1.3	TM
92	TM	Naphthalene	0.8033	1.276	59	TM
93	TML	1,2,3-Trichlorobenzene	0.4030	0.5563	38	TML 25*
94						
95						
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114						
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116						
117						
118						
119						
120						

Average

14.9

Data File : M:\THOR\DATA\T191023\1023T16.D
 Acq On : 24 Oct 19 00:17
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 10:01 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	189056	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	176576	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	104576	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	88311	24.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.936%	
45) 1,2-DCA-D4(S)	6.18	65	99051	24.28	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.100%	
66) Toluene-D8(S)	8.30	98	317868	24.11	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.424%	
74) 4-Bromofluorobenzene(S)	10.92	174	125676	24.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.300%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	16584	9.46	ppb	95
4) Freon 114	1.32	85	11332	14.95	ppb	94
5) Chloromethane	1.36	50	15001	10.79	ppb	100
6) Vinyl chloride	1.46	62	13419	10.47	ppb	94
8) Bromomethane	1.75	96	8529	11.16	ppb	91
9) Chloroethane	1.85	64	10004	10.95	ppb	94
10) Dichlorofluoromethane	2.06	67	22695	9.75	ppb	94
11) Trichlorofluoromethane	2.12	101	22652	9.48	ppb	93
13) Acrolein	2.55	55	10633	146.94	ppb	91
14) Acetone	2.74	43	4192	9.00	ppb	# 85
15) Freon-113	2.70	101	11017	11.22	ppb	94
16) 1,1-DCE	2.67	61	15133	8.94	ppb	94
18) Acetonitrile	3.06	41	15283	98.86	ppb	93
19) t-Butanol	3.53	59	12569	100.17	ppb	90
20) Methyl Acetate	3.18	43	9624	11.47	ppb	100
21) Iodomethane	2.82	142	4850	7.01	ppb	96
22) Acrylonitrile	3.62	53	4841	11.18	ppb	92
23) Methylene chloride	3.27	49	14178	9.06	ppb	95
24) Carbon disulfide	2.89	76	34712	11.97	ppb	96
25) Methyl t-butyl ether (MtBE)	3.73	73	39432	10.43	ppb	# 94
26) Trans-1,2-DCE	3.67	61	15749	9.51	ppb	99
28) Diisopropyl Ether	4.54	45	14117	9.81	ppb	93
30) 1,1-DCA	4.32	63	8425	8.79	ppb	96
31) Vinyl Acetate	4.55	87	11869	10.52	ppb	94
32) Ethyl tert Butyl Ether	5.06	59	39017	10.07	ppb	95
33) MEK (2-Butanone)	5.22	43	5065	10.28	ppb	96
34) Cis-1,2-DCE	5.16	61	18921	9.43	ppb	98
35) 2,2-Dichloropropane	5.16	77	8030	10.05	ppb	93
38) Chloroform	5.60	83	12288	9.35	ppb	98
39) Bromochloromethane	5.46	130	4761	8.44	ppb	92
41) 1,1,1-TCA	5.80	97	9986	8.94	ppb	93
42) Cyclohexane	5.88	84	15506	10.25	ppb	83
43) 1,1-Dichloropropene	6.02	75	14729	8.92	ppb	93
44) 2,2,4-Trimethylpentane	6.41	57	12822	11.20	ppb	96
46) Carbon Tetrachloride	6.01	119	17655	8.91	ppb	94
47) Tert Amyl Methyl Ether	6.45	73	39710	10.09	ppb	97
49) 1,2-DCA	6.26	62	9746	8.40	ppb	96
50) Benzene	6.25	78	46595	8.66	ppb	96
51) TCE	7.01	130	14335	8.59	ppb	94

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

Data File : M:\THOR\DATA\T191023\1023T16.D
 Acq On : 24 Oct 19 00:17
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 10:01 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	83503	99.33	ppb	97
53) 1,2-Dichloropropane	7.23	63	12032	8.80	ppb	99
54) Bromodichloromethane	7.54	83	18434	8.81	ppb	96
55) Methyl Cyclohexane	7.22	83	17807	10.68	ppb	99
56) Dibromomethane	7.35	174	11427	9.43	ppb	89
57) MIBK (methyl isobutyl ket	9.05	43	3541	8.26	ppb	91
58) 1-Bromo-2-chloroethane	7.85	63	17889	10.15	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	19310	8.82	ppb	95
61) Toluene	8.36	91	54500	8.94	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	12446	9.09	ppb	91
63) 1,1,2-TCA	8.77	97	12450	9.10	ppb	95
64) 2-Hexanone	8.21	43	5795	9.08	ppb	91
67) 1,2-EDB	9.26	107	7497	8.87	ppb	92
68) Tetrachloroethene	8.93	166	16992	10.16	ppb	93
69) 1-Chlorohexane	9.77	91	16573	10.82	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	15099	8.84	ppb	99
71) m&p-Xylene	10.02	91	94029	18.39	ppb	98
72) o-Xylene	10.41	91	50679	9.27	ppb	97
73) Styrene	10.42	104	35896	9.26	ppb	98
75) 1,3-Dichloropropane	8.93	76	20248	9.19	ppb	99
76) Dibromochloromethane	9.15	129	15128	8.82	ppb	94
77) Chlorobenzene	9.77	112	23632	9.08	ppb	94
78) Ethylbenzene	9.90	91	60882	9.54	ppb	94
79) Bromoform	10.58	173	12336	8.96	ppb	94
81) Isopropylbenzene	10.78	105	59167	9.21	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	15484	9.17	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	5345	9.24	ppb	95
84) t-1,4-Dichloro-2-Butene	11.12	53	3757	11.13	ppb	96
85) Bromobenzene	11.06	77	15098	9.02	ppb	92
86) n-Propylbenzene	11.19	91	64588	9.04	ppb	100
87) 4-Ethyltoluene	11.31	105	64214	10.48	ppb	98
88) 2-Chlorotoluene	11.26	91	28529	9.64	ppb	93
89) 1,3,5-Trimethylbenzene	11.37	105	52305	9.60	ppb	99
90) 4-Chlorotoluene	11.37	91	32304	9.59	ppb	96
91) Tert-Butylbenzene	11.69	119	43377	8.82	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	52394	9.38	ppb	99
93) Sec-Butylbenzene	11.91	105	58680	9.21	ppb	96
94) p-Isopropyltoluene	12.06	119	53966	9.64	ppb	97
95) Benzyl Chloride	12.22	91	10920	8.36	ppb	98
96) 1,3-DCB	12.00	146	21048	8.65	ppb	97
97) 1,4-DCB	12.09	146	33259	9.02	ppb	98
98) n-Butylbenzene	12.47	91	41925	9.86	ppb	97
99) 1,2-DCB	12.45	146	20592	9.30	ppb	98
100) Hexachloroethane	12.72	117	6254	9.19	ppb	99
101) 1,2-Dibromo-3-chloropropan	13.22	157	2343	9.70	ppb	86
102) 1,2,4-Trichlorobenzene	14.06	182	15546	11.70	ppb	98
103) Hexachlorobutadiene	14.25	225	8031	9.87	ppb	99
104) Naphthalene	14.30	128	53370	15.88	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	23272	12.52	ppb	# 81

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

Quantitation Report

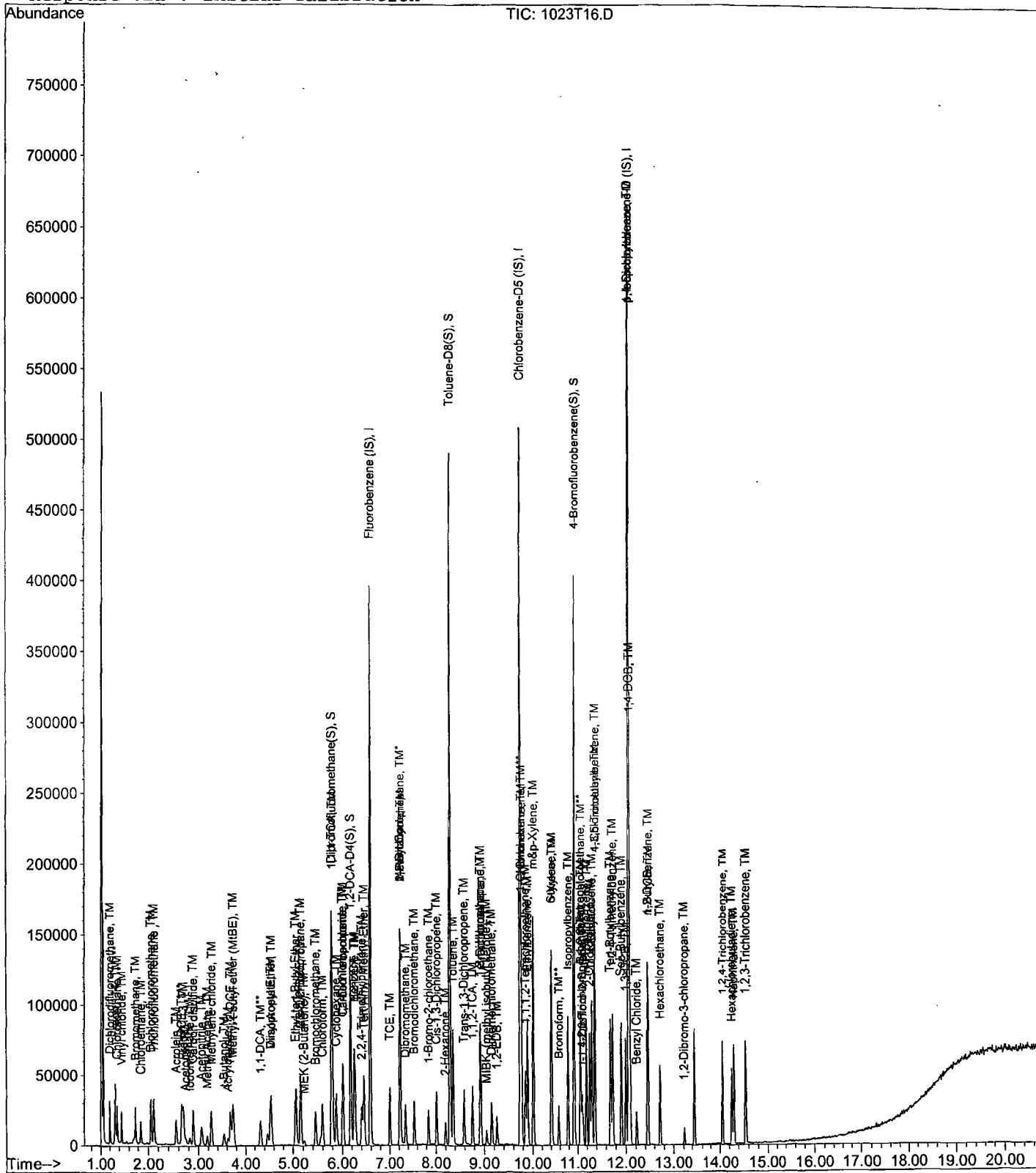
Data File : M:\THOR\DATA\T191023\1023T16.D
Acq On : 24 Oct 19 00:17
Sample : (SS)10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 16
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 10:01 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/23/19

Data File: 1028T16.D

	Compound	MEAN	CCRF	%D	%Drift	
1	I Fluorobenzene (IS)	ISTD			I	
2	TM Dichlorodifluoromethane	0.2318	0.2377	2.6	TM	
3	TML Freon 114	0.1167	0.1238	6.1	TML	21 * NT
4	TM**L Chloromethane	0.2206	0.2063	6.5	TM**L	13
5	TM* Vinyl chloride	0.1695	0.1724	1.7	TM*	
6	TM 2-Chloro-1,1,1-trifluoroethane	0.0000	0.0038	0.00	TM	
7	TML Bromomethane	0.1168	0.1242	6.3	TML	23 *
8	TML Chloroethane	0.2026	0.1325	35	TML	9.6
9	TM Dichlorofluoromethane	0.3078	0.3326	8.1	TM	
10	TM Trichlorofluoromethane	0.3159	0.3486	10	TM	
11	TM Acrolein	0.0096	0.0081	15	TM	
12	TML Acetone	0.0616	0.0663	7.7	TML	7.7
13	TML Freon-113	0.1219	0.1406	15	TML	7.9
14	TM* 1,1-DCE	0.2239	0.2286	2.1	TM*	
15	TML Acetonitrile	0.0207	0.0184	11	TML	9.4
16	TM t-Butanol	0.0166	0.0141	15	TM	
17	TML Methyl Acetate	0.1249	0.1016	19	TML	11
18	TML Iodomethane	0.0951	0.0920	3.2	TML	14
19	TM Acrylonitrile	0.0573	0.0503	12	TM	
20	TML Methylene chloride	0.2241	0.2029	9.4	TML	0.63
21	TML Carbon disulfide	0.4208	0.4655	11	TML	21 *
22	TML Methyl t-butyl ether (MtBE)	0.5335	0.4839	9.3	TML	3.9
23	TM Trans-1,2-DCE	0.2190	0.2320	5.9	TM	
24	TM Diisopropyl Ether	0.1903	0.1762	7.4	TM	
25	TM**L 1,1-DCA	0.1356	0.1182	13	TM**L	6.0
26	TML Vinyl Acetate	0.1447	0.1476	2.0	TML	1.5
27	TM Ethyl tert Butyl Ether	0.5122	0.4775	6.8	TM	
28	TML MEK (2-Butanone)	0.0768	0.0593	23	TML	8.9
29	TM Cis-1,2-DCE	0.2652	0.2705	2.0	TM	
30	TML 2,2-Dichloropropane	0.1205	0.1123	6.8	TML	6.5
31	TM 3-Methylpentane	0.0000	0.0945	0.00	TM	
32	TM* Chloroform	0.1738	0.1786	2.7	TM*	
33	TM Bromochloromethane	0.0746	0.0728	2.4	TM	
34	S Dibromofluoromethane(S)	0.4819	0.4775	0.91	S	
35	TML 1,1,1-TCA	0.1555	0.1405	9.6	TML	4.2
36	TM Cyclohexane	0.2001	0.1974	1.3	TM	
37	TM 1,1-Dichloropropene	0.2185	0.2123	2.8	TM	
38	TML 2,2,4-Trimethylpentane	0.1692	0.1516	10	TML	0.21
39	S 1,2-DCA-D4(S)	0.5396	0.5299	1.8	S	
40	TML Carbon Tetrachloride	0.2432	0.2732	12	TML	5:5

Average

8.1

**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: 0

Instrument: Thor

Cal. Date: 10/23/19

Data File: 1028T16.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Tert Amyl Methyl Ether	0.5205	0.4957	4.8	TM	
42	TM	Methylcyclopentane	0.0000	0.0257	0.00	TM	
43	TML	1,2-DCA	0.1715	0.1504	12	TML	0.01
44	TM	Benzene	0.7114	0.6946	2.4	TM	
45	TM	TCE	0.2207	0.2238	1.4	TM	
46	TM	2-Pentanone	0.1112	0.0966	13	TM	
47	TM*	1,2-Dichloropropane	0.1808	0.1747	3.4	TM*	
48	TM	Bromodichloromethane	0.2768	0.2661	3.9	TM	
49	TM	Methyl Cyclohexane	0.2204	0.2315	5.0	TM	
50	TML	Dibromomethane	0.1389	0.1701	23	TML	6.8
51	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0469	25	TML	17
52	TM	1-Bromo-2-chloroethane	0.2330	0.2274	2.4	TM	
53	TM	2-Chloroethyl vinyl ether	0.0000	0.0004	0.00	TM	
54	TM	Cis-1,3-Dichloropropene	0.2895	0.2914	0.64	TM	
55	TM*	Toluene	0.8064	0.8082	0.23	TM*	
56	TM	Trans-1,3-Dichloropropene	0.1810	0.1708	5.6	TM	
57	TM	1,1,2-TCA	0.1808	0.1821	0.70	TM	
58	TML	2-Hexanone	0.0907	0.0729	20	TML	13
59	I	Chlorobenzene-D5 (IS)	ISTD			I	
60	S	Toluene-D8(S)	1.867	1.823	2.4	S	
61	TM	1,2-EDB	0.1197	0.1156	3.4	TM	
62	TM	Tetrachloroethene	0.2368	0.2705	14	TM	
63	TML	1-Chlorohexane	0.2307	0.2147	6.9	TML	1.3
64	TM	1,1,1,2-Tetrachloroethane	0.2419	0.2264	6.4	TM	
65	TM	m&p-Xylene	0.7241	0.7129	1.5	TM	
66	TM	o-Xylene	0.7739	0.7368	4.8	TM	
67	TM	Styrene	0.5490	0.5108	7.0	TM	
68	S	4-Bromofluorobenzene(S)	0.7391	0.7164	3.1	S	
69	TM	1,3-Dichloropropane	0.3118	0.3111	0.22	TM	
70	TML	Dibromochloromethane	0.2170	0.2321	7.0	TML	4.3
71	TM**	Chlorobenzene	0.3686	0.3681	0.16	TM**	
72	TM*	Ethylbenzene	0.9036	0.8665	4.1	TM*	
73	TM**L	Bromoform	0.1737	0.1889	8.7	TM**L	3.3
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
75	TM	Isopropylbenzene	1.536	1.524	0.76	TM	
76	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.3907	3.2	TM**	
77	TML	1,2,3-Trichloropropane	0.1253	0.1328	6.0	TML	3.6
78	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0716	1.5	TML	13
79	TM	Bromobenzene	0.4002	0.3878	3.1	TM	
80	TM	n-Propylbenzene	1.707	1.655	3.1	TM	
Average					5.5		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Thor
Cal. Date: 10/23/19
Data File: 1028T16.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	4-Ethyltoluene	1.465	1.489	1.6	TM
82	TM	2-Chlorotoluene	0.7078	0.7351	3.9	TM
83	TM	1,3,5-Trimethylbenzene	1.302	1.336	2.6	TM
84	TM	4-Chlorotoluene	0.8054	0.8410	4.4	TM
85	TM	Tert-Butylbenzene	1.175	1.322	12	TM
86	TM	1,2,4-Trimethylbenzene	1.336	1.313	1.7	TM
87	TM	Sec-Butylbenzene	1.523	1.538	0.97	TM
88	TM	p-Isopropyltoluene	1.338	1.317	1.6	TM
89	TM	Benzyl Chloride	0.3124	0.2709	13	TM
90	TM	1,3-DCB	0.5820	0.5739	1.4	TM
91	TM	1,4-DCB	0.8814	0.8880	0.75	TM
92	TM	n-Butylbenzene	1.016	1.026	0.92	TM
93	TM	1,2-DCB	0.5295	0.5416	2.3	TM
94	TM	Hexachloroethane	0.1627	0.1788	9.9	TM
95	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0556	11	TML 3.8
96	TM	1,2,4-Trichlorobenzene	0.3177	0.3343	5.2	TM
97	TM	Hexachlorobutadiene	0.1945	0.2108	8.4	TM
98	TM	Naphthalene	0.8033	0.8665	7.9	TM
99	TML	1,2,3-Trichlorobenzene	0.4030	0.4959	23	TML 11
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

5.9

Data File : M:\THOR\DATA\T191028\1028T16.D
 Acq On : 28 Oct 19 22:50
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	153088	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	142528	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	80472	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	73098	24.77	ppb	0.00
Spiked Amount 25.000			Recovery =	99.088%		
45) 1,2-DCA-D4(S)	6.17	65	81114	24.55	ppb	0.00
Spiked Amount 25.000			Recovery =	98.200%		
66) Toluene-D8(S)	8.30	98	259828	24.41	ppb	0.00
Spiked Amount 25.000			Recovery =	97.644%		
74) 4-Bromofluorobenzene(S)	10.92	174	102100	24.23	ppb	0.00
Spiked Amount 25.000			Recovery =	96.924%		
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	14557	10.26	ppb	Qvalue 95
4) Freon 114	1.32	85	7578	12.11	ppb	98
5) Chloromethane	1.36	50	12630	11.27	ppb	99
6) Vinyl chloride	1.46	62	10558	10.17	ppb	97
8) Bromomethane	1.75	96	7603	12.32	ppb	98
9) Chloroethane	1.86	64	8111	10.96	ppb	99
10) Dichlorofluoromethane	2.06	67	20369	10.81	ppb	94
11) Trichlorofluoromethane	2.12	101	21344	11.03	ppb	82
13) Acrolein	2.55	55	6220	106.15	ppb	98
14) Acetone	2.73	43	4059	10.77	ppb	96
15) Freon-113	2.69	101	8610	10.79	ppb	# 94
16) 1,1-DCE	2.67	61	14001	10.21	ppb	94
18) Acetonitrile	3.06	41	14118	113.24	ppb	94
19) t-Butanol	3.53	59	10766	105.96	ppb	96
20) Methyl Acetate	3.17	43	6223	8.86	ppb	91
21) Iodomethane	2.82	142	5636	8.58	ppb	91
22) Acrylonitrile	3.61	53	3081	8.79	ppb	93
23) Methylene chloride	3.27	49	12425	9.94	ppb	91
24) Carbon disulfide	2.89	76	28507	12.14	ppb	99
25) Methyl t-butyl ether (MtBE)	3.73	73	29630	9.61	ppb	96
26) Trans-1,2-DCE	3.67	61	14204	10.59	ppb	95
28) Diisopropyl Ether	4.54	45	10787	9.26	ppb	90
30) 1,1-DCA	4.32	63	7236	9.40	ppb	95
31) Vinyl Acetate	4.54	87	9041	9.85	ppb	96
32) Ethyl tert Butyl Ether	5.06	59	29242	9.32	ppb	# 89
33) MEK (2-Butanone)	5.22	43	3632	9.11	ppb	# 35
34) Cis-1,2-DCE	5.16	61	16565	10.20	ppb	# 92
35) 2,2-Dichloropropane	5.15	77	6875	10.65	ppb	89
38) Chloroform	5.59	83	10934	10.27	ppb	97
39) Bromochloromethane	5.46	130	4458	9.76	ppb	94
41) 1,1,1-TCA	5.80	97	8606	9.58	ppb	89
42) Cyclohexane	5.88	84	12088	9.87	ppb	89
43) 1,1-Dichloropropene	6.02	75	13000	9.72	ppb	96
44) 2,2,4-Trimethylpentane	6.41	57	9286	9.98	ppb	99
46) Carbon Tetrachloride	6.01	119	16727	10.55	ppb	92
47) Tert Amyl Methyl Ether	6.45	73	30353	9.52	ppb	98
49) 1,2-DCA	6.26	62	9207	10.00	ppb	98
50) Benzene	6.25	78	42533	9.76	ppb	94
51) TCE	7.00	130	13705	10.14	ppb	94

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

Data File : M:\THOR\DATA\T191028\1028T16.D
 Acq On : 28 Oct 19 22:50
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.22	43	73934	108.61	ppb	100
53) 1,2-Dichloropropane	7.23	63	10699	9.66	ppb	98
54) Bromodichloromethane	7.54	83	16295	9.61	ppb	91
55) Methyl Cyclohexane	7.22	83	14176	10.50	ppb	90
56) Dibromomethane	7.34	174	10419	10.68	ppb	98
57) MIBK (methyl isobutyl ket	9.05	43	2869	8.26	ppb	# 77
58) 1-Bromo-2-chloroethane	7.85	63	13927	9.76	ppb	97
60) Cis-1,3-Dichloropropene	8.02	75	17841	10.06	ppb	98
61) Toluene	8.36	91	49491	10.02	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	10456	9.44	ppb	87
63) 1,1,2-TCA	8.77	97	11150	10.07	ppb	96
64) 2-Hexanone	8.20	43	4463	8.67	ppb	95
67) 1,2-EDB	9.26	107	6592	9.66	ppb	93
68) Tetrachloroethene	8.92	166	15420	11.42	ppb	97
69) 1-Chlorohexane	9.77	91	12243	9.87	ppb	98
70) 1,1,1,2-Tetrachloroethane	9.86	131	12908	9.36	ppb	81
71) m&p-Xylene	10.02	91	81284	19.69	ppb	96
72) o-Xylene	10.40	91	42005	9.52	ppb	95
73) Styrene	10.41	104	29122	9.30	ppb	93
75) 1,3-Dichloropropane	8.93	76	17738	9.98	ppb	100
76) Dibromochloromethane	9.15	129	13233	9.57	ppb	94
77) Chlorobenzene	9.77	112	20984	9.98	ppb	98
78) Ethylbenzene	9.90	91	49399	9.59	ppb	97
79) Bromoform	10.58	173	10768	9.67	ppb	95
81) Isopropylbenzene	10.78	105	49071	9.92	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	12576	9.68	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	4275	9.64	ppb	94
84) t-1,4-Dichloro-2-Butene	11.11	53	2305	8.71	ppb	93
85) Bromobenzene	11.06	77	12484	9.69	ppb	82
86) n-Propylbenzene	11.19	91	53259	9.69	ppb	99
87) 4-Ethyltoluene	11.30	105	47919	10.16	ppb	97
88) 2-Chlorotoluene	11.26	91	23662	10.39	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	43008	10.26	ppb	99
90) 4-Chlorotoluene	11.37	91	27072	10.44	ppb	94
91) Tert-Butylbenzene	11.69	119	42540	11.24	ppb	94
92) 1,2,4-Trimethylbenzene	11.74	105	42274	9.83	ppb	97
93) Sec-Butylbenzene	11.91	105	49509	10.10	ppb	99
94) p-Isopropyltoluene	12.06	119	42377	9.84	ppb	100
95) Benzyl Chloride	12.22	91	8721	8.67	ppb	97
96) 1,3-DCB	12.00	146	18472	9.86	ppb	98
97) 1,4-DCB	12.09	146	28583	10.07	ppb	94
98) n-Butylbenzene	12.46	91	33021	10.09	ppb	99
99) 1,2-DCB	12.45	146	17432	10.23	ppb	97
100) Hexachloroethane	12.72	117	5756	10.99	ppb	90
101) 1,2-Dibromo-3-chloropropan	13.22	157	1789	9.62	ppb	# 81
102) 1,2,4-Trichlorobenzene	14.06	182	10762	10.52	ppb	98
103) Hexachlorobutadiene	14.25	225	6785	10.84	ppb	93
104) Naphthalene	14.30	128	27893	10.79	ppb	96
105) 1,2,3-Trichlorobenzene	14.54	182	15961	11.14	ppb	# 79

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

1028T16.D T1023W.M Tue Oct 29 09:21:51 2019

Quantitation Report

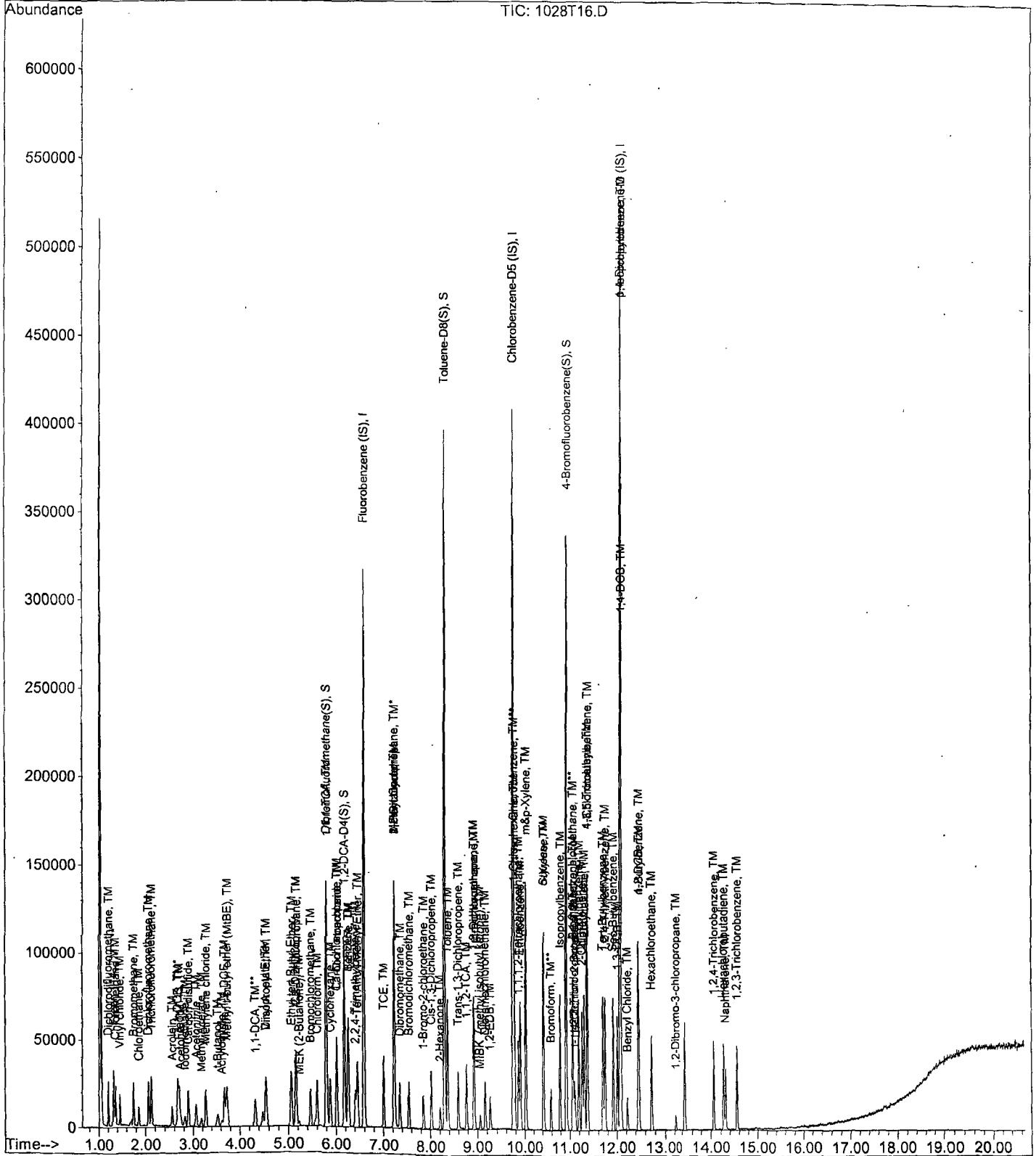
Data File : M:\THOR\DATA\T191028\1028T16.D
Acq On : 28 Oct 19 22:50
Sample : 191028A CCV/LCS 10ug/L
Misc : IS&S 9/23/19

Vial: 16
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Thor
Initial Cal. Date: 10/23/19
Data File: 1028t37.D



		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.2318	0.1617	30	TM	
3	TML	Freon 114	0.1167	0.0927	21	TML	13
4	TM**L	Chloromethane	0.2206	0.1310	41	TM**L	32
5	TM*	Vinyl chloride	0.1695	0.1216	28	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	0.0000	0.0037	0.00	TM	
7	TML	Bromomethane	0.1168	0.0964	17	TML	5.0
8	TML	Chloroethane	0.2026	0.0978	52	TML	23
9	TM	Dichlorofluoromethane	0.3078	0.2265	26	TM	
10	TM	Trichlorofluoromethane	0.3159	0.2345	26	TM	
11	TM	Acrolein	0.0096	0.0054	44	TM	
12	TML	Acetone	0.0616	0.0428	30	TML	30
13	TML	Freon-113	0.1219	0.0990	19	TML	27
14	TM*	1,1-DCE	0.2239	0.1609	28	TM*	
15	TML	Acetonitrile	0.0207	0.0121	42	TML	41
16	TM	t-Butanol	0.0166	0.0085	49	TM	
17	TML	Methyl Acetate	0.1249	0.0742	41	TML	39
18	TML	Iodomethane	0.0951	0.0365	62	TML	46
19	TM	Acrylonitrile	0.0573	0.0344	40	TM	
20	TML	Methylene chloride	0.2241	0.1536	31	TML	29
21	TML	Carbon disulfide	0.4208	0.3247	23	TML	16
22	TML	Methyl t-butyl ether (MtBE)	0.5335	0.3179	40	TML	40
23	TM	Trans-1,2-DCE	0.2190	0.1599	27	TM	
24	TM	Diisopropyl Ether	0.1903	0.1158	39	TM	
25	TM**L	1,1-DCA	0.1356	0.0859	37	TM**L	35
26	TML	Vinyl Acetate	0.1447	0.1012	30	TML	35
27	TM	Ethyl tert Butyl Ether	0.5122	0.3369	34	TM	
28	TML	MEK (2-Butanone)	0.0768	0.0407	47	TML	37
29	TM	Cis-1,2-DCE	0.2652	0.1820	31	TM	
30	TML	2,2-Dichloropropane	0.1205	0.0642	47	TML	41
31	TM	3-Methylpentane	0.0000	0.0676	0.00	TM	
32	TM*	Chloroform	0.1738	0.1196	31	TM*	
33	TM	Bromochloromethane	0.0746	0.0528	29	TM	
34	S	Dibromofluoromethane(S)	0.4819	0.3368	30	S	
35	TML	1,1,1-TCA	0.1555	0.1055	32	TML	31
36	TM	Cyclohexane	0.2001	0.1314	34	TM	
37	TM	1,1-Dichloropropene	0.2185	0.1513	31	TM	
38	TML	2,2,4-Trimethylpentane	0.1692	0.0958	43	TML	38
39	S	1,2-DCA-D4(S)	0.5396	0.3810	29	S	
40	TML	Carbon Tetrachloride	0.2432	0.1909	22	TML	28

Average

32.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Thor
Cal. Date: 10/23/19
Data File: 1028t37.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.5205	0.3362	35	TM
42	TM	Methylcyclopentane	0.0000	0.0204	0.00	TM
43	TML	1,2-DCA	0.1715	0.1035	40	TML 35
44	TM	Benzene	0.7114	0.4820	32	TM
45	TM	TCE	0.2207	0.1592	28	TM
46	TM	2-Pentanone	0.1112	0.0610	45	TM
47	TM*	1,2-Dichloropropane	0.1808	0.1245	31	TM*
48	TM	Bromodichloromethane	0.2768	0.1892	32	TM
49	TM	Methyl Cyclohexane	0.2204	0.1520	31	TM
50	TML	Dibromomethane	0.1389	0.1193	14	TML 27
51	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0307	51	TML 44
52	TM	1-Bromo-2-chloroethane	0.2330	0.1526	35	TM
53	TM	2-Chloroethyl vinyl ether	0.0000	0.0003	0.00	TM
54	TM	Cis-1,3-Dichloropropene	0.2895	0.1879	35	TM
55	TM*	Toluene	0.8064	0.5652	30	TM*
56	TM	Trans-1,3-Dichloropropene	0.1810	0.1140	37	TM
57	TM	1,1,2-TCA	0.1808	0.1215	33	TM
58	TML	2-Hexanone	0.0907	0.0476	48	TML 41
59	I	Chlorobenzene-D5 (IS)	ISTD			I
60	S	Toluene-D8(S)	1.867	1.407	25	S
61	TM	1,2-EDB	0.1197	0.0838	30	TM
62	TM	Tetrachloroethene	0.2368	0.1951	18	TM
63	TML	1-Chlorohexane	0.2307	0.1564	32	TML 29
64	TM	1,1,1,2-Tetrachloroethane	0.2419	0.1823	25	TM
65	TM	m&p-Xylene	0.7241	0.5352	26	TM
66	TM	o-Xylene	0.7739	0.5523	29	TM
67	TM	Styrene	0.5490	0.3653	33	TM
68	S	4-Bromofluorobenzene(S)	0.7391	0.5578	25	S
69	TM	1,3-Dichloropropane	0.3118	0.2256	28	TM
70	TML	Dibromochloromethane	0.2170	0.1802	17	TML 26
71	TM**	Chlorobenzene	0.3686	0.2843	23	TM**
72	TM*	Ethylbenzene	0.9036	0.6439	29	TM*
73	TM**L	Bromoform	0.1737	0.1380	21	TM**L 29
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
75	TM	Isopropylbenzene	1.536	1.110	28	TM
76	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.2517	38	TM**
77	TML	1,2,3-Trichloropropane	0.1253	0.0965	23	TML 33
78	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0509	30	TML 40
79	TM	Bromobenzene	0.4002	0.2747	31	TM
80	TM	n-Propylbenzene	1.707	1.151	33	TM

Average

29.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Thor
Cal. Date: 10/23/19
Data File: 1028t37.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	4-Ethyltoluene	1.465	1.013	31	TM
82	TM	2-Chlorotoluene	0.7078	0.4984	30	TM
83	TM	1,3,5-Trimethylbenzene	1.302	0.9189	29	TM
84	TM	4-Chlorotoluene	0.8054	0.5545	31	TM
85	TM	Tert-Butylbenzene	1.175	0.9064	23	TM
86	TM	1,2,4-Trimethylbenzene	1.336	0.8985	33	TM
87	TM	Sec-Butylbenzene	1.523	1.023	33	TM
88	TM	p-Isopropyltoluene	1.338	0.8930	33	TM
89	TM	Benzyl Chloride	0.3124	0.1525	51	TM
90	TM	1,3-DCB	0.5820	0.3911	33	TM
91	TM	1,4-DCB	0.8814	0.6224	29	TM
92	TM	n-Butylbenzene	1.016	0.6412	37	TM
93	TM	1,2-DCB	0.5295	0.3749	29	TM
94	TM	Hexachloroethane	0.1627	0.1310	19	TM
95	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0336	46	TML 43
96	TM	1,2,4-Trichlorobenzene	0.3177	0.1708	46	TM
97	TM	Hexachlorobutadiene	0.1945	0.1365	30	TM
98	TM	Naphthalene	0.8033	0.3470	57	TM
99	TML	1,2,3-Trichlorobenzene	0.4030	0.2328	42	TML 49
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

* NT

*

Average

34.8

Data File : M:\THOR\DATA\T191028\1028t37.D
 Acq On : 29 Oct 19 8:43
 Sample : Ending CCV 10ug/L 10/13/19
 Misc : IS&S 9/23/19

Vial: 37
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	204672	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	176896	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	105960	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.78	111	68929	17.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	69.888%	
45) 1,2-DCA-D4(S)	6.17	65	77988	17.65	ppb	0.00
Spiked Amount	25.000		Recovery	=	70.620%	
66) Toluene-D8(S)	8.30	98	248812	18.83	ppb	0.00
Spiked Amount	25.000		Recovery	=	75.340%	
74) 4-Bromofluorobenzene(S)	10.92	174	98677	18.87	ppb	0.00
Spiked Amount	25.000		Recovery	=	75.472%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	13237	6.98	ppb	92
4) Freon 114	1.32	85	7587	8.73	ppb	98
5) Chloromethane	1.36	50	10723	6.75	ppb	93
6) Vinyl chloride	1.46	62	9959	7.18	ppb	100
8) Bromomethane	1.75	96	7893	9.50	ppb	96
9) Chloroethane	1.86	64	8005	7.70	ppb	95
10) Dichlorofluoromethane	2.06	67	18541	7.36	ppb	98
11) Trichlorofluoromethane	2.12	101	19198	7.42	ppb	94
13) Acrolein	2.55	55	5498	70.18	ppb	96
14) Acetone	2.74	43	3505	6.95	ppb	90
15) Freon-113	2.70	101	8103	7.32	ppb	91
16) 1,1-DCE	2.66	61	13171	7.18	ppb	97
18) Acetonitrile	3.05	41	12386	73.19	ppb	93
19) t-Butanol	3.52	59	8668	63.81	ppb #	89
20) Methyl Acetate	3.17	43	6072	6.06	ppb	86
21) Iodomethane	2.82	142	2989	5.45	ppb	80
22) Acrylonitrile	3.62	53	2814	6.00	ppb	81
23) Methylene chloride	3.27	49	12574	7.15	ppb	94
24) Carbon disulfide	2.89	76	26582	8.40	ppb	99
25) Methyl t-butyl ether (MtBE)	3.73	73	26022	5.97	ppb #	95
26) Trans-1,2-DCE	3.67	61	13093	7.30	ppb	94
28) Diisopropyl Ether	4.54	45	9483	6.09	ppb	98
30) 1,1-DCA	4.32	63	7036	6.48	ppb	98
31) Vinyl Acetate	4.55	87	8282	6.52	ppb	89
32) Ethyl tert Butyl Ether	5.06	59	27583	6.58	ppb	97
33) MEK (2-Butanone)	5.22	43	3335	6.26	ppb	99
34) Cis-1,2-DCE	5.16	61	14899	6.86	ppb	91
35) 2,2-Dichloropropane	5.15	77	5260	5.93	ppb	99
38) Chloroform	5.59	83	9790	6.88	ppb	99
39) Bromochloromethane	5.45	130	4320	7.07	ppb	92
41) 1,1,1-TCA	5.80	97	8636	6.94	ppb	93
42) Cyclohexane	5.87	84	10757	6.57	ppb	80
43) 1,1-Dichloropropene	6.02	75	12386	6.93	ppb	91
44) 2,2,4-Trimethylpentane	6.41	57	7847	6.19	ppb	97
46) Carbon Tetrachloride	6.01	119	15628	7.15	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	27526	6.46	ppb	98
49) 1,2-DCA	6.26	62	8470	6.50	ppb	93
50) Benzene	6.25	78	39463	6.78	ppb	99
51) TCE	7.00	130	13035	7.21	ppb	95

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

Data File : M:\THOR\DATA\T191028\1028t37.D
 Acq On : 29 Oct 19 8:43
 Sample : Ending CCV 10ug/L 10/13/19
 Misc : IS&S 9/23/19

Vial: 37
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	62398	68.56	ppb	97
53) 1,2-Dichloropropane	7.23	63	10195	6.89	ppb	94
54) Bromodichloromethane	7.53	83	15493	6.84	ppb #	98
55) Methyl Cyclohexane	7.22	83	12440	6.89	ppb	82
56) Dibromomethane	7.35	174	9763	7.34	ppb	98
57) MIBK (methyl isobutyl ket	9.05	43	2516	5.60	ppb	98
58) 1-Bromo-2-chloroethane	7.85	63	12490	6.55	ppb	96
60) Cis-1,3-Dichloropropene	8.02	75	15382	6.49	ppb	96
61) Toluene	8.36	91	46276	7.01	ppb	93
62) Trans-1,3-Dichloropropene	8.59	75	9330	6.30	ppb	87
63) 1,1,2-TCA	8.76	97	9951	6.72	ppb	93
64) 2-Hexanone	8.20	43	3893	5.88	ppb	92
67) 1,2-EDB	9.25	107	5928	7.00	ppb	84
68) Tetrachloroethene	8.92	166	13807	8.24	ppb	97
69) 1-Chlorohexane	9.77	91	11066	7.09	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	12896	7.53	ppb	99
71) m&p-Xylene	10.02	91	75738	14.78	ppb	100
72) o-Xylene	10.41	91	39081	7.14	ppb	99
73) Styrene	10.41	104	25845	6.65	ppb	100
75) 1,3-Dichloropropane	8.93	76	15966	7.24	ppb	100
76) Dibromochloromethane	9.15	129	12750	7.41	ppb	97
77) Chlorobenzene	9.77	112	20120	7.71	ppb	98
78) Ethylbenzene	9.89	91	45564	7.13	ppb	97
79) Bromoform	10.58	173	9763	7.12	ppb	98
81) Isopropylbenzene	10.78	105	47033	7.22	ppb	99
82) 1,1,2,2-Tetrachloroethane	11.05	83	10670	6.24	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	4089	6.71	ppb #	84
84) t-1,4-Dichloro-2-Butene	11.12	53	2159	5.96	ppb	93
85) Bromobenzene	11.05	77	11641	6.86	ppb	90
86) n-Propylbenzene	11.19	91	48777	6.74	ppb	98
87) 4-Ethyltoluene	11.30	105	42938	6.92	ppb	98
88) 2-Chlorotoluene	11.26	91	21125	7.04	ppb	96
89) 1,3,5-Trimethylbenzene	11.37	105	38948	7.06	ppb	95
90) 4-Chlorotoluene	11.37	91	23504	6.89	ppb	95
91) Tert-Butylbenzene	11.69	119	38417	7.71	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	38083	6.73	ppb	98
93) Sec-Butylbenzene	11.91	105	43363	6.72	ppb	94
94) p-Isopropyltoluene	12.06	119	37847	6.68	ppb	98
95) Benzyl Chloride	12.22	91	6463	4.88	ppb	92
96) 1,3-DCB	12.00	146	16576	6.72	ppb	100
97) 1,4-DCB	12.09	146	26381	7.06	ppb	96
98) n-Butylbenzene	12.46	91	27176	6.31	ppb	96
99) 1,2-DCB	12.45	146	15890	7.08	ppb	98
100) Hexachloroethane	12.72	117	5554	8.05	ppb	91
101) 1,2-Dibromo-3-chloropropan	13.22	157	1424	5.66	ppb	95
102) 1,2,4-Trichlorobenzene	14.06	182	7241	5.38	ppb	98
103) Hexachlorobutadiene	14.25	225	5786	7.02	ppb	94
104) Naphthalene	14.30	128	14708	4.32	ppb	96
105) 1,2,3-Trichlorobenzene	14.54	182	9868	5.13	ppb #	80

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

Quantitation Report

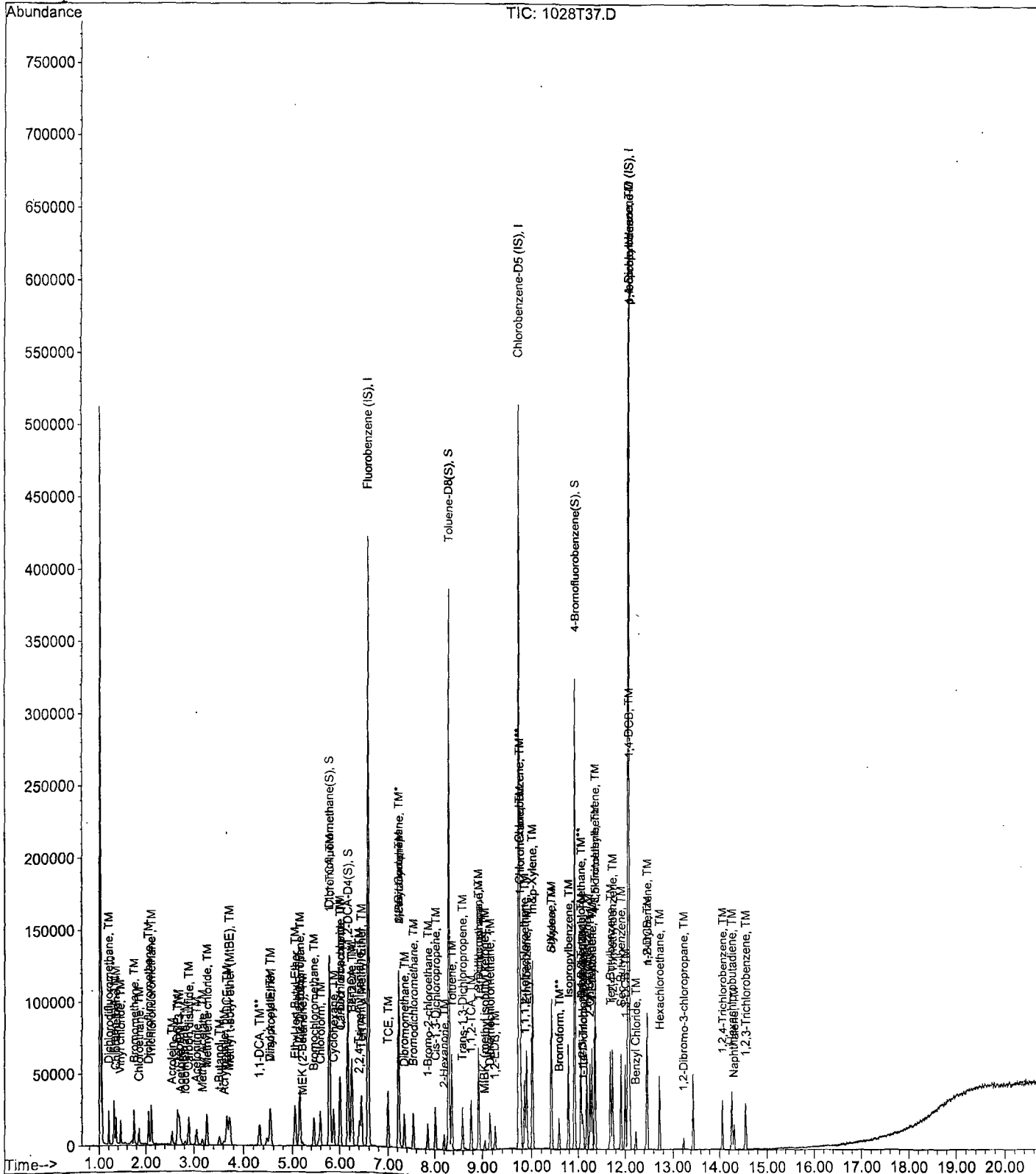
Data File : M:\THOR\DATA\T191028\1028t37.D
 Acq On : 29 Oct 19 8:43
 Sample : Ending CCV 10ug/L 10/13/19
 Misc : IS&S 9/23/19

Vial: 37
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 9:17 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\191023\1028L28.D Vial: 28
 Acq On : 28 Oct 19 22:59 Operator:
 Sample : BA01774W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:14 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277632	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	279616	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	138112	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	86608	25.3372	ppb	0.00
Spiked Amount				25.000		
					Recovery =	101.348%
44) 1,2-DCA-D4(S)	4.95	65	99818	27.1784	ppb	0.00
Spiked Amount				25.000		
					Recovery =	108.712%
65) Toluene-D8(S)	7.38	98	262174	25.7685	ppb	0.00
Spiked Amount				25.000		
					Recovery =	103.076%
73) 4-Bromofluorobenzene(S)	10.28	95	92339	25.6233	ppb	0.00
Spiked Amount				25.000		
					Recovery =	102.492%

Target Compounds Qvalue

Quantitation Report

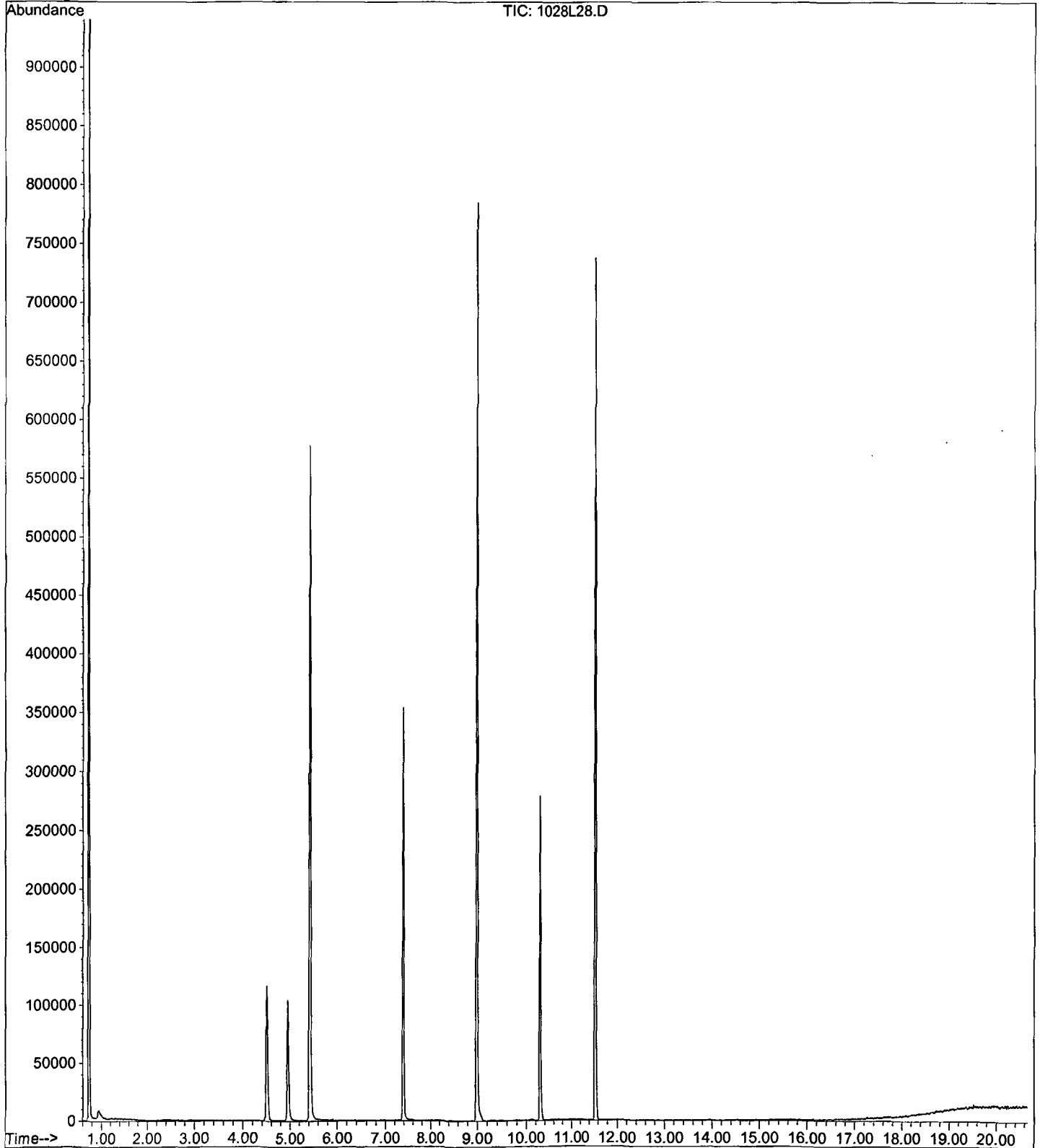
Data File : M:\LOKI\DATA\191023\1028L28.D
Acq On : 28 Oct 19 22:59
Sample : BA01774W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:14 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L44.D Vial: 44
 Acq On : 29 Oct 19 6:33 Operator:
 Sample : BA01775W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:19 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	263040	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	261824	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	132160	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	83640	25.8263	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.304%	
44) 1,2-DCA-D4(S)	4.95	65	95191	27.3563	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.424%	
65) Toluene-D8(S)	7.38	98	249214	26.1592	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.636%	
73) 4-Bromofluorobenzene(S)	10.28	95	82873	24.5593	ppb	0.00
Spiked Amount				25.000		
					Recovery = 98.236%	

Target Compounds Qvalue

Quantitation Report

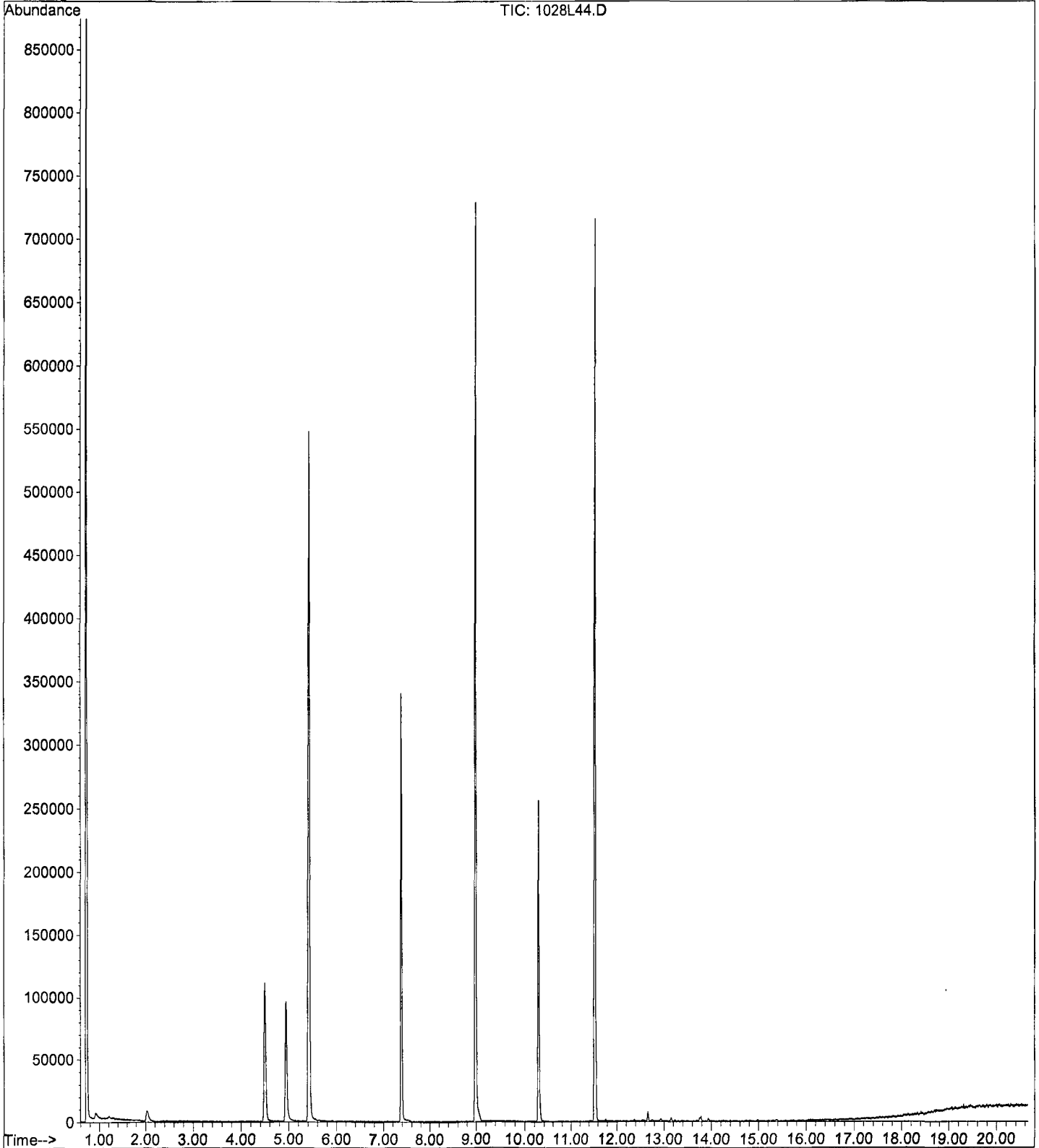
Data File : M:\LOKI\DATA\191023\1028L44.D
Acq On : 29 Oct 19 6:33
Sample : BA01775W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 44
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:19 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L29.D Vial: 29
 Acq On : 28 Oct 19 23:27 Operator:
 Sample : BA01776W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:14 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283840	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	283904	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	136064	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	88683	25.3768	ppb	0.00
Spiked Amount				25.000		
					Recovery =	101.508%
44) 1,2-DCA-D4(S)	4.95	65	102019	27.1701	ppb	0.00
Spiked Amount				25.000		
					Recovery =	108.680%
65) Toluene-D8(S)	7.38	98	268220	25.9646	ppb	0.00
Spiked Amount				25.000		
					Recovery =	103.860%
73) 4-Bromofluorobenzene(S)	10.29	95	90844	24.8278	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.312%

Target Compounds Qvalue

Quantitation Report

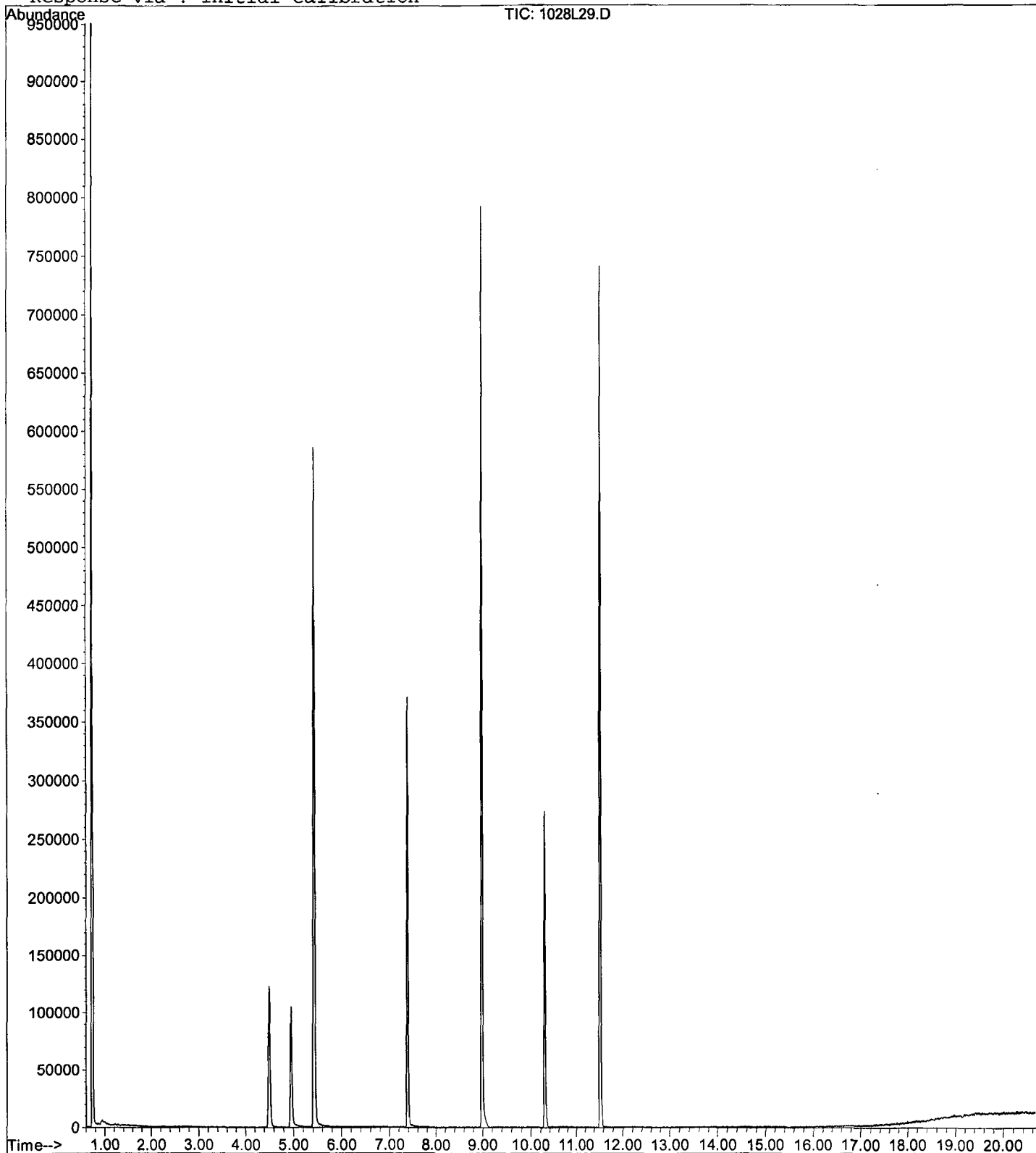
Data File : M:\LOKI\DATA\191023\1028L29.D
Acq On : 28 Oct 19 23:27
Sample : BA01776W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:14 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260E
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L27.D
 Acq On : 31 Oct 19 2:15
 Sample : BA01777W03
 Misc : IS&S:10/7/19, 10/23/19

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	260864	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	256640	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	126784	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	82293	25.6223	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.488%	
44) 1,2-DCA-D4(S)	4.94	65	97209	28.1693	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.676%	
65) Toluene-D8(S)	7.38	98	248561	26.6177	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.472%	
73) 4-Bromofluorobenzene(S)	10.29	95	86122	26.0377	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.152%	

Target Compounds

Qvalue

Quantitation Report

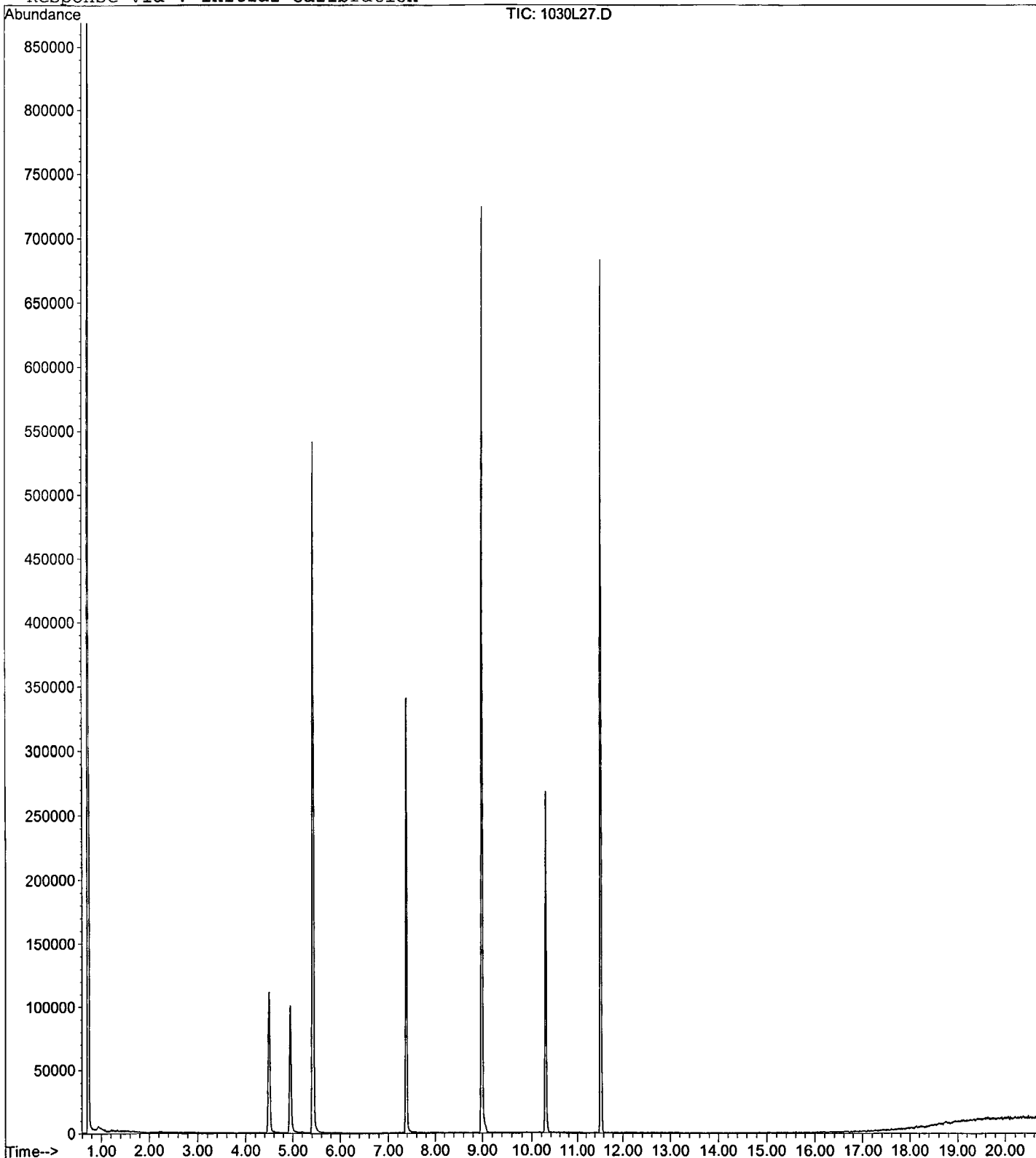
Data File : M:\LOKI\DATA\191023\1030L27.D
Acq On : 31 Oct 19 2:15
Sample : BA01777W03
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L30.D Vial: 30
 Acq On : 28 Oct 19 23:55 Operator:
 Sample : BA01778W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:15 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277568	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	267584	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	135232	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86233	25.2333	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.932%	
44) 1,2-DCA-D4(S)	4.94	65	98738	26.8905	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.560%	
65) Toluene-D8(S)	7.38	98	258954	26.5965	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.384%	
73) 4-Bromofluorobenzene(S)	10.29	95	90047	26.1109	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.444%	

Target Compounds Qvalue

Quantitation Report

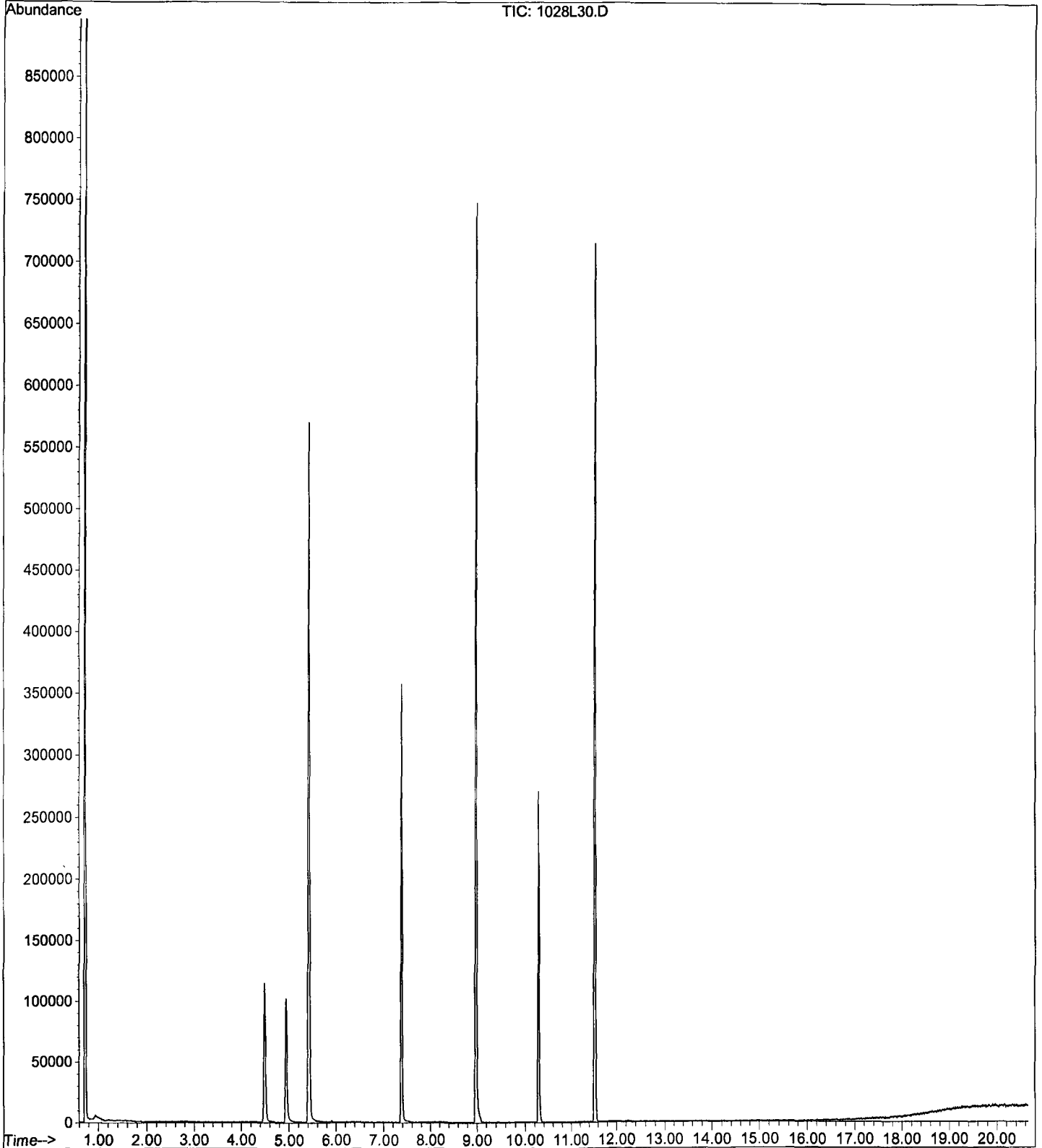
Data File : M:\LOKI\DATA\191023\1028L30.D
Acq On : 28 Oct 19 23:55
Sample : BA01778W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:15 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T34.D
 Acq On : 29 Oct 19 7:18
 Sample : BA01779W01
 Misc : IS&S 9/23/19

Vial: 34
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:41 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	139968	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	130488	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	68216	25.0000	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	66372	24.6009	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.404%
45) 1,2-DCA-D4 (S)	6.17	65	75495	24.9908	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.964%
66) Toluene-D8 (S)	8.30	98	231963	23.8042	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.216%
74) 4-Bromofluorobenzene(S)	10.92	174	89940	23.3142	ppb	0.00
Spiked Amount				25.000		
					Recovery =	93.256%

Target Compounds

Qvalue

Quantitation Report

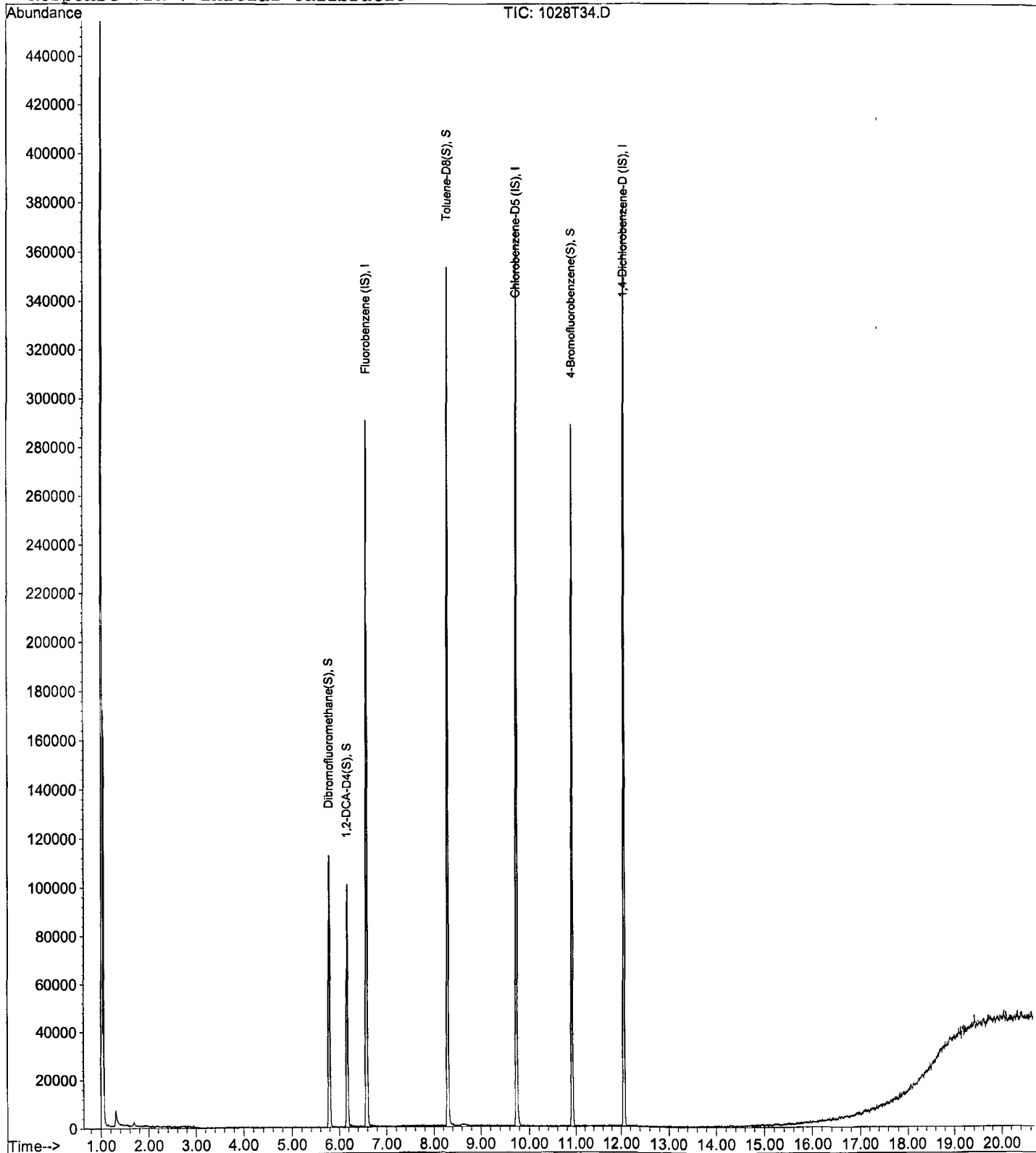
Data File : M:\THOR\DATA\T191028\1028T34.D
Acq On : 29 Oct 19 7:18
Sample : BA01779W01
Misc : IS&S 9/23/19

Vial: 34
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:41 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L40.D
 Acq On : 29 Oct 19 4:39
 Sample : BA01780W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 40
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:18 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	266752	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	254528	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	124800	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	83705	25.4867	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.948%	
44) 1,2-DCA-D4 (S)	4.95	65	94171	26.6866	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.748%	
65) Toluene-D8 (S)	7.38	98	251853	27.1940	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.776%	
73) 4-Bromofluorobenzene (S)	10.29	95	82050	25.0124	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.048%	

Target Compounds Qvalue

Quantitation Report

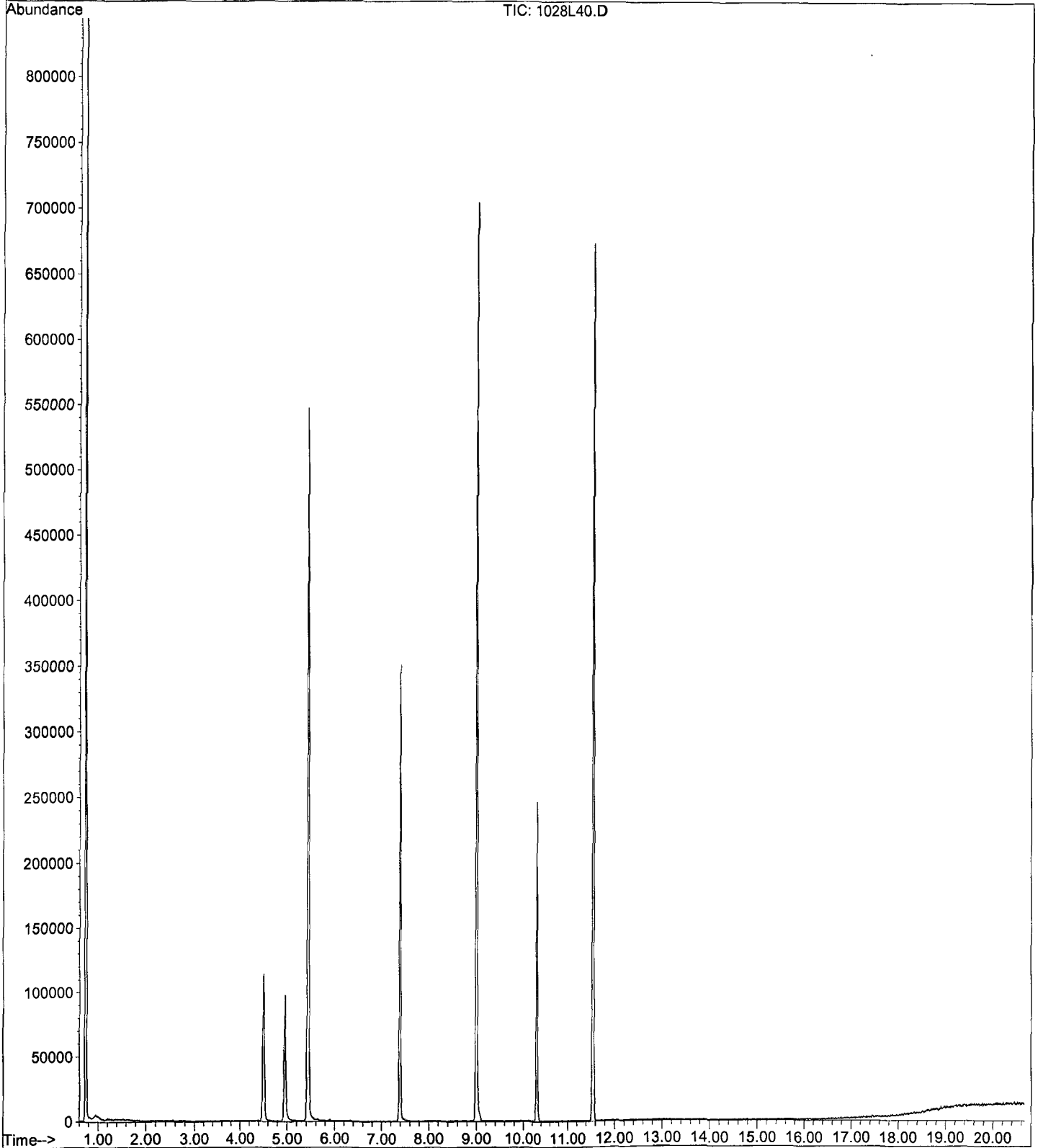
Data File : M:\LOKI\DATA\191023\1028L40.D
Acq On : 29 Oct 19 4:39
Sample : BA01780W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 40
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:18 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L41.D Vial: 41
 Acq On : 29 Oct 19 5:08 Operator:
 Sample : BA01781W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:18 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	267456	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	271680	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	125112	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	83222	25.2729	ppb	0.00
Spiked Amount				25.000		
				Recovery = 101.092%		
44) 1,2-DCA-D4(S)	4.95	65	98213	27.7588	ppb	0.00
Spiked Amount				25.000		
				Recovery = 111.036%		
65) Toluene-D8(S)	7.38	98	253947	25.6890	ppb	0.00
Spiked Amount				25.000		
				Recovery = 102.756%		
73) 4-Bromofluorobenzene(S)	10.29	95	86710	24.7642	ppb	0.00
Spiked Amount				25.000		
				Recovery = 99.056%		

Target Compounds Qvalue

Quantitation Report

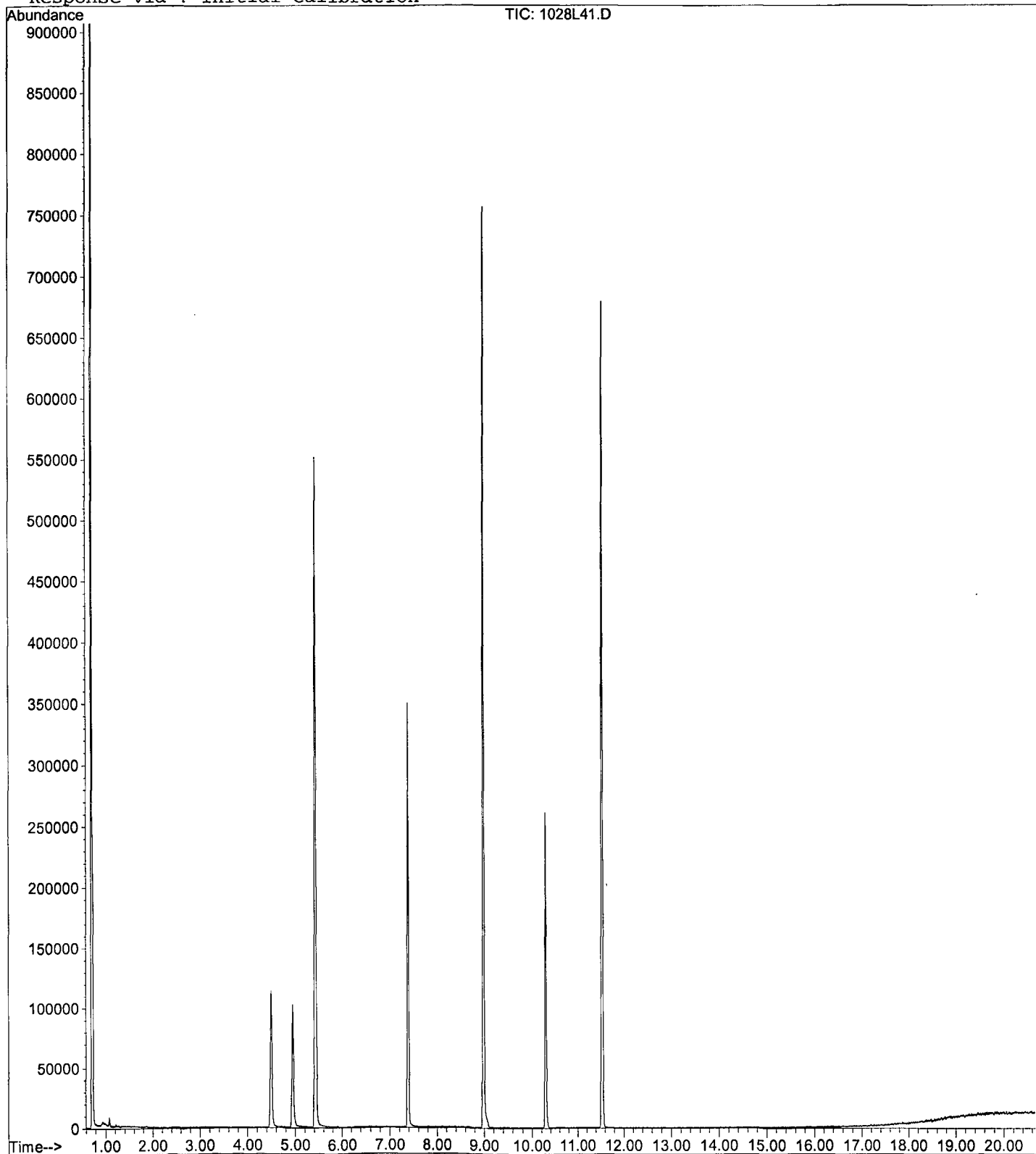
Data File : M:\LOKI\DATA\191023\1028L41.D
Acq On : 29 Oct 19 5:08
Sample : BA01781W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 41
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:18 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L42.D
 Acq On : 29 Oct 19 5:36
 Sample : BA01782W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:18 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	268544	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	267136	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	129296	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86595	26.1907	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.764%	
44) 1,2-DCA-D4(S)	4.95	65	97827	27.5377	ppb	0.00
Spiked Amount				25.000		
					Recovery = 110.152%	
65) Toluene-D8(S)	7.38	98	262246	26.9798	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.920%	
73) 4-Bromofluorobenzene(S)	10.28	95	85503	24.8349	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.340%	

Target Compounds Qvalue

Quantitation Report

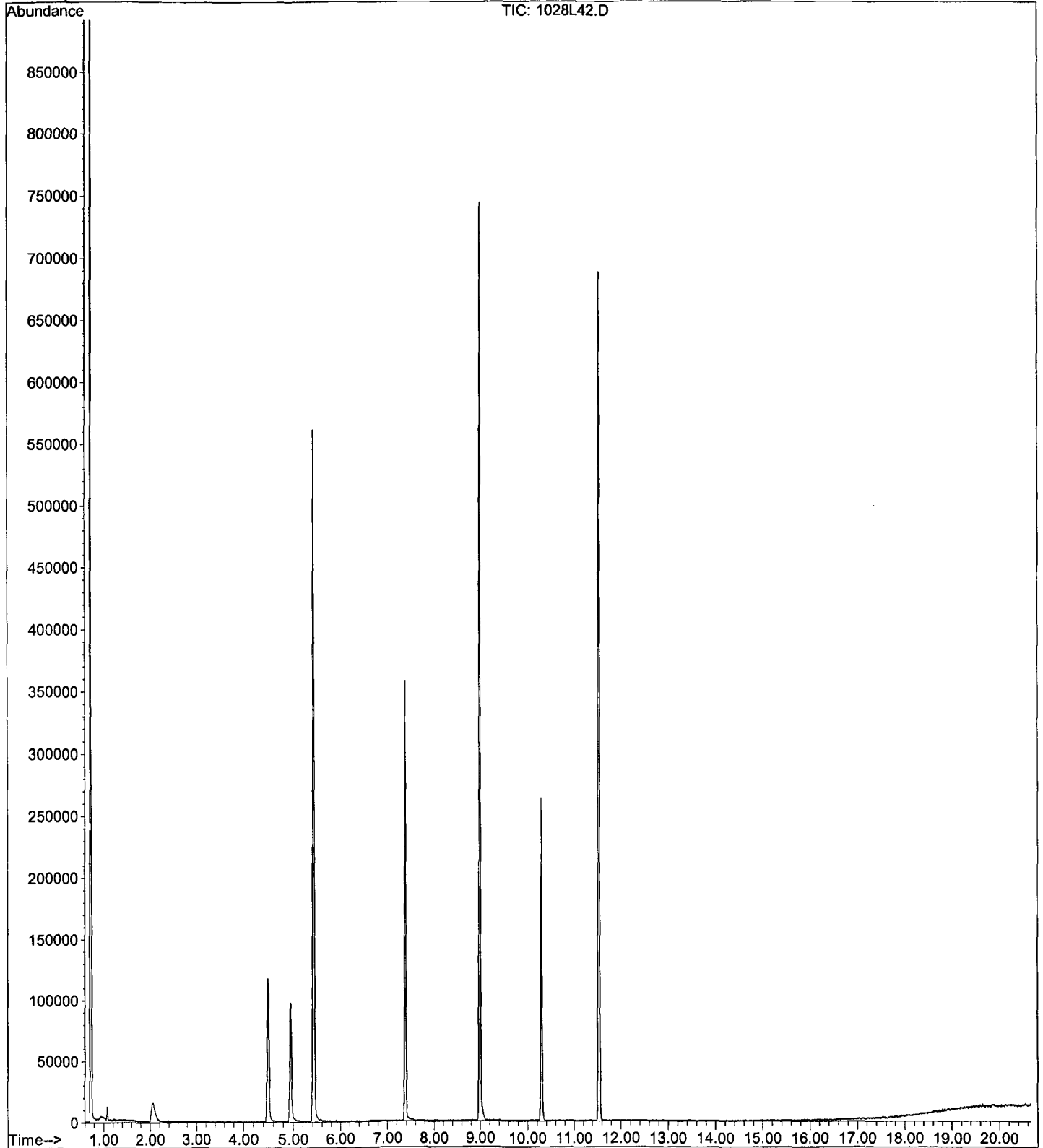
Data File : M:\LOKI\DATA\191023\1028L42.D
Acq On : 29 Oct 19 5:36
Sample : BA01782W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 42
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:18 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L31.D Vial: 31
 Acq On : 29 Oct 19 00:24 Operator:
 Sample : BA01783W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:15 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	278336	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	273536	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	130544	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86241	25.1660	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.664%	
44) 1,2-DCA-D4(S)	4.95	65	101907	27.6770	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.708%	
65) Toluene-D8(S)	7.38	98	262895	26.4137	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.656%	
73) 4-Bromofluorobenzene(S)	10.28	95	87597	24.8478	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.392%	

Target Compounds Qvalue

Quantitation Report

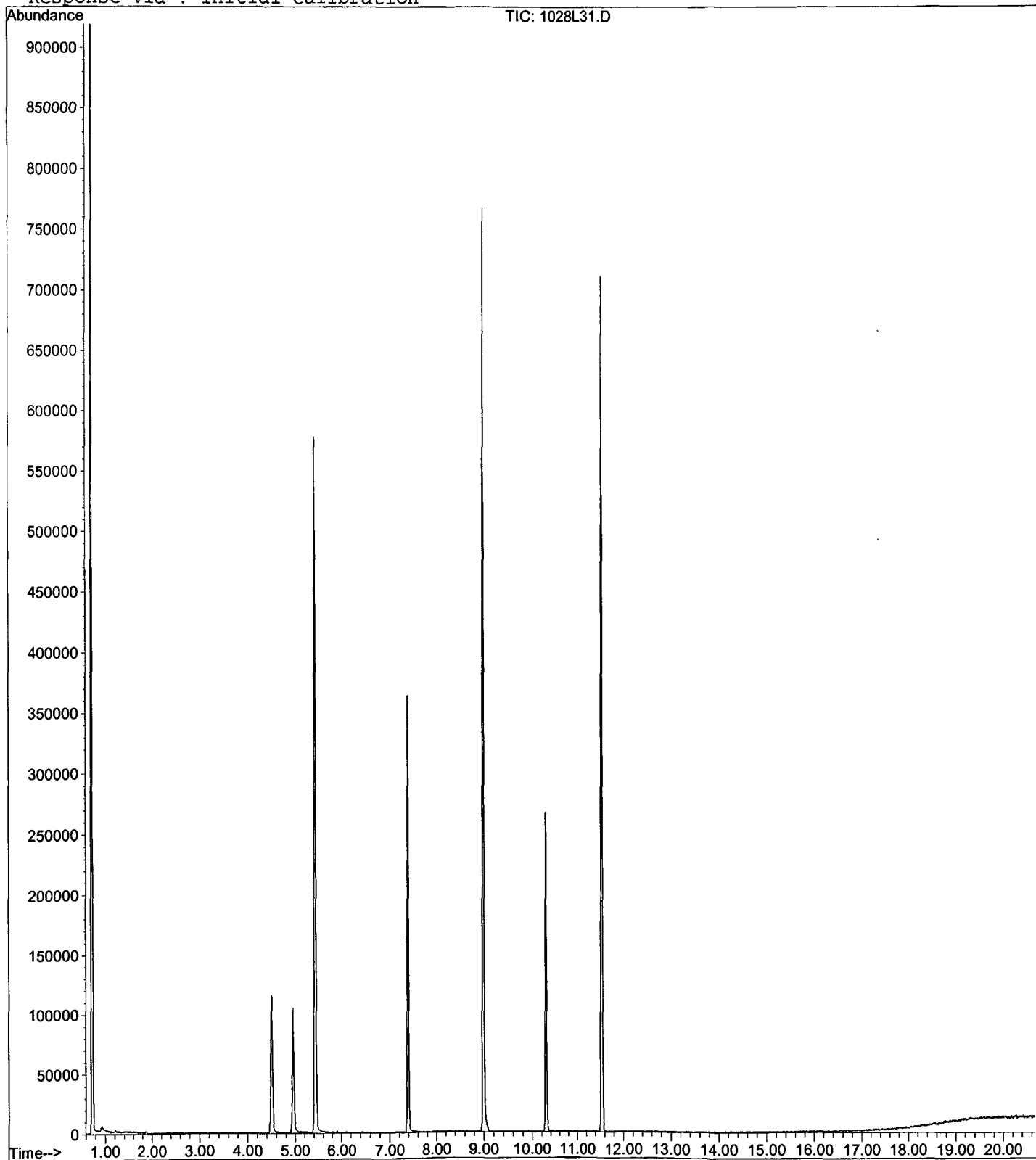
Data File : M:\LOKI\DATA\191023\1028L31.D
Acq On : 29 Oct 19 00:24
Sample : BA01783W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:15 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L43.D
 Acq On : 29 Oct 19 6:05
 Sample : BA01784W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 43
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:19 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	272896	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	264896	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	128080	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	86949	25.8784	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.512%	
44) 1,2-DCA-D4 (S)	4.95	65	98130	27.1824	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.728%	
65) Toluene-D8 (S)	7.38	98	259478	26.9207	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.684%	
73) 4-Bromofluorobenzene (S)	10.28	95	84418	24.7271	ppb	0.00
Spiked Amount				25.000		
					Recovery = 98.908%	
Target Compounds						Qvalue
14) Acetone	2.06	43	487330	982.1522	ppb	# 46

Quantitation Report

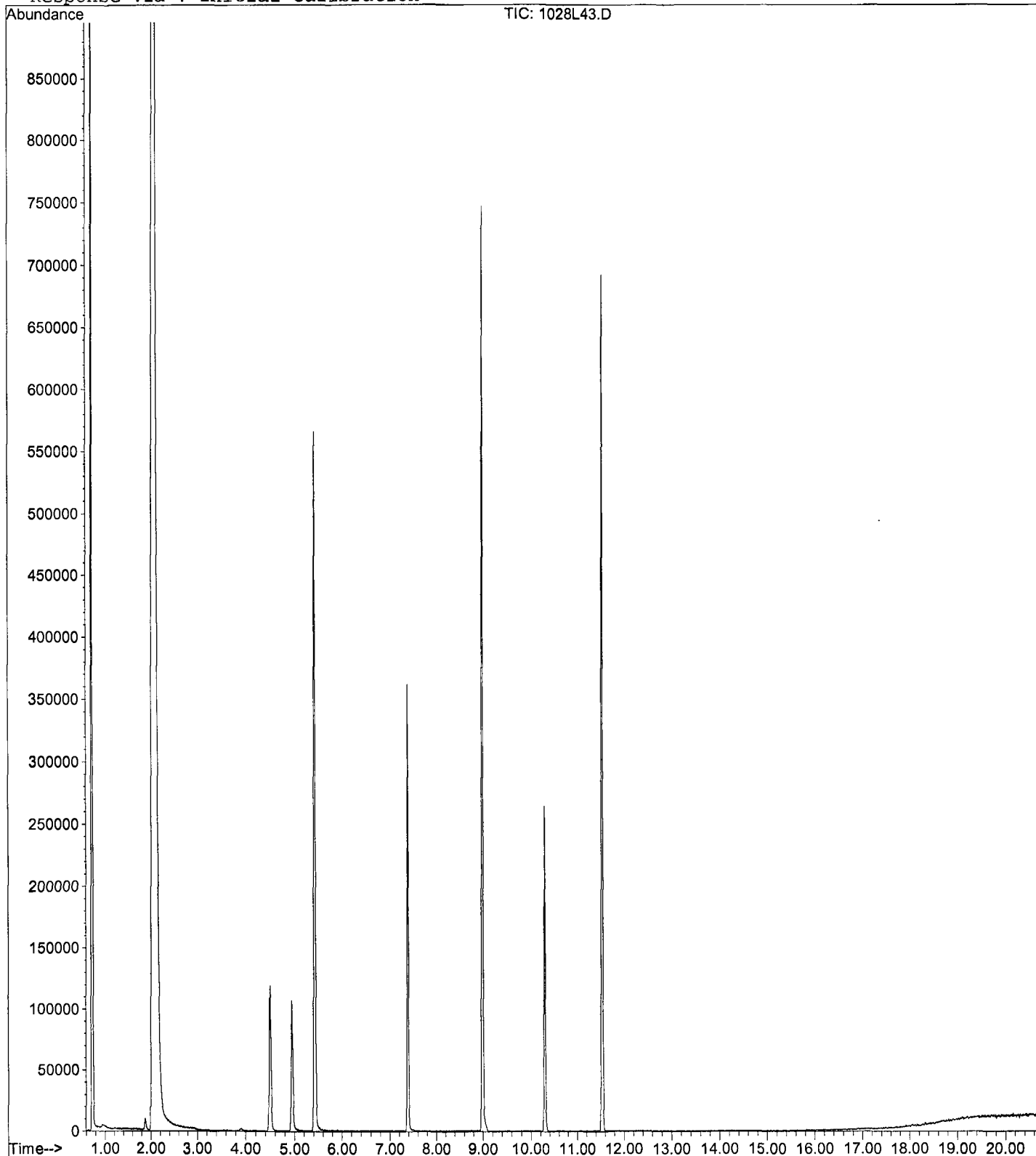
Data File : M:\LOKI\DATA\191023\1028L43.D
Acq On : 29 Oct 19 6:05
Sample : BA01784W01
Misc : IS&S:10/7/19, 10/23/19

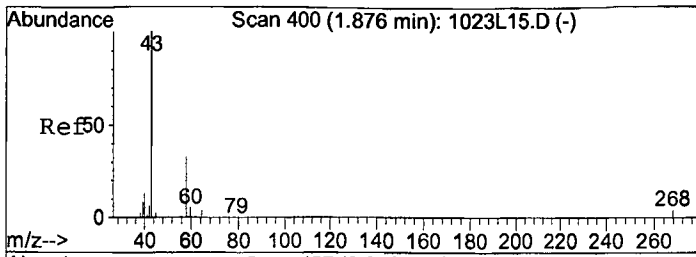
Vial: 43
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:19 2019

Quant Results File: L1023W.RES

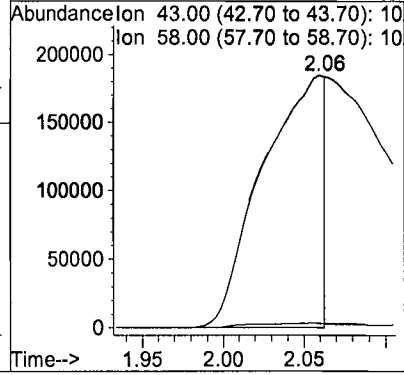
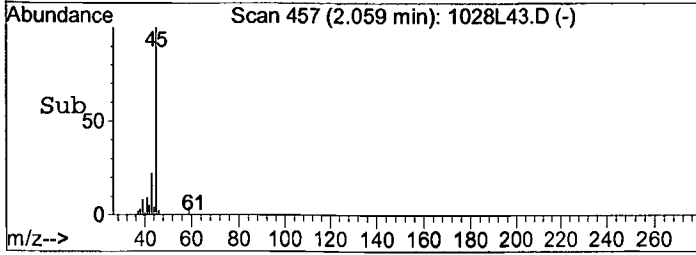
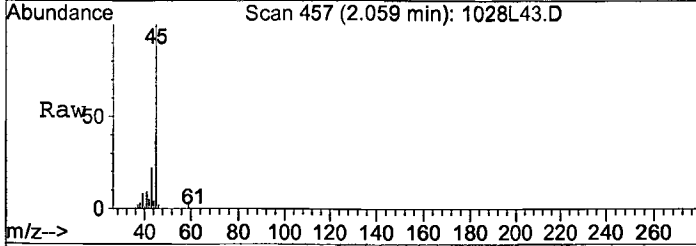
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration





#14
 Acetone
 Concen: 982.1522 ppb
 RT: 2.06 min Scan# 457
 Delta R.T. 0.18 min
 Lab File: 1028L43.D
 Acq: 29 Oct 19 6:05

Tgt Ion: 43 Resp: 487330
 Ion Ratio Lower Upper
 43 100
 58 1.8 25.2 37.8#



Data File : M:\LOKI\DATA\191023\1028L27.D
 Acq On : 28 Oct 19 22:30
 Sample : 191028B BLK
 Misc : IS&S:10/7/19, 10/23/19

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:14 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283200	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	274752	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	138880	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	87049	24.9655	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.864%
44) 1,2-DCA-D4(S)	4.95	65	100947	26.9454	ppb	0.00
Spiked Amount				25.000		
					Recovery =	107.780%
65) Toluene-D8(S)	7.38	98	265753	26.5827	ppb	0.00
Spiked Amount				25.000		
					Recovery =	106.332%
73) 4-Bromofluorobenzene(S)	10.29	95	90992	25.6966	ppb	0.00
Spiked Amount				25.000		
					Recovery =	102.788%

Target Compounds Qvalue

Quantitation Report

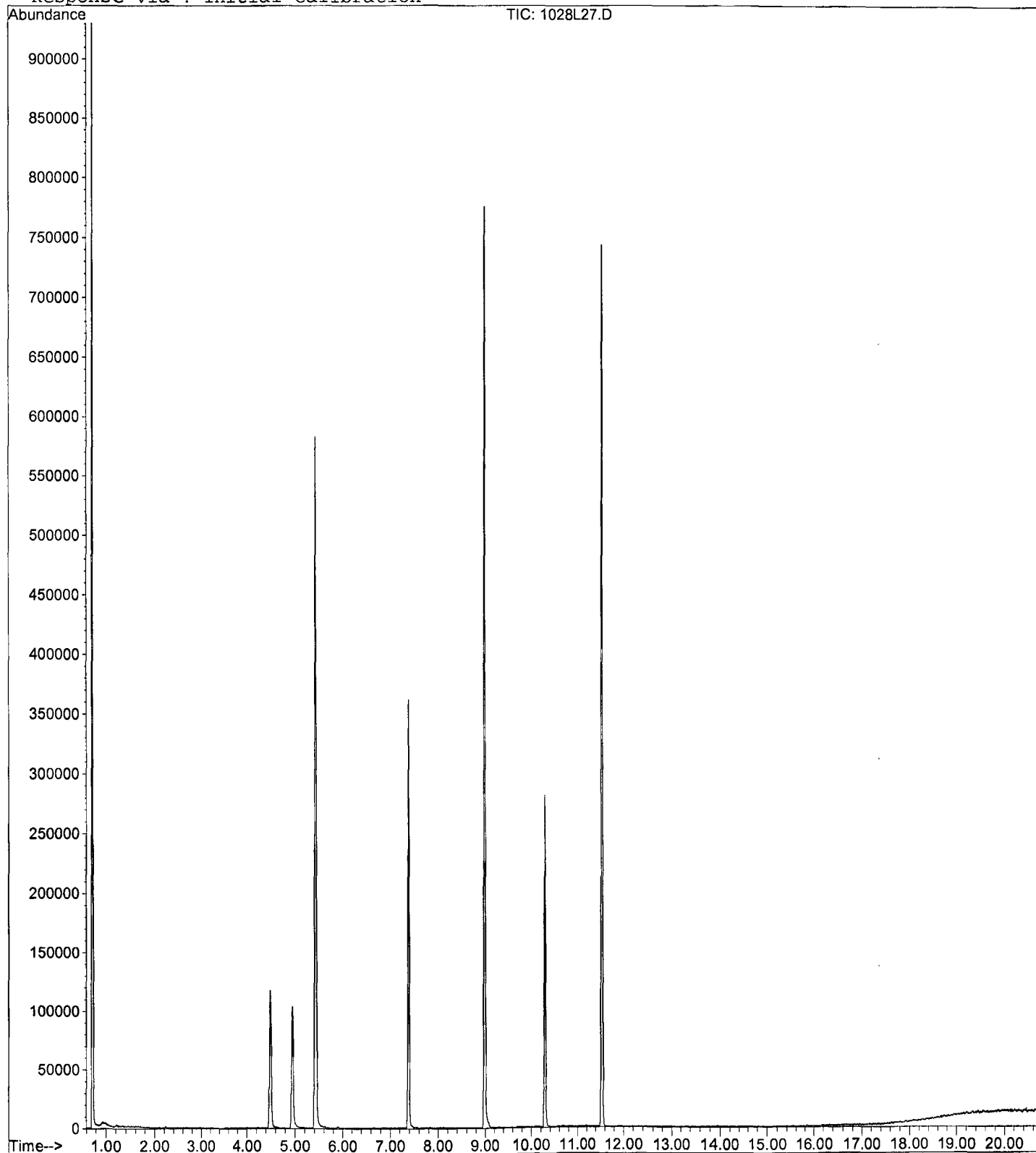
Data File : M:\LOKI\DATA\191023\1028L27.D
Acq On : 28 Oct 19 22:30
Sample : 191028B BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:14 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L24.D Vial: 24
 Acq On : 31 Oct 19 00:50 Operator:
 Sample : 191030 BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:36 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	257024	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	249472	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	123784	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	83670	26.4403	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.760%	
44) 1,2-DCA-D4(S)	4.95	65	95429	28.0666	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.268%	
65) Toluene-D8(S)	7.38	98	251875	27.7476	ppb	0.00
Spiked Amount				25.000		
					Recovery = 110.992%	
73) 4-Bromofluorobenzene(S)	10.28	95	84431	26.2599	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.040%	

Target Compounds Qvalue

Quantitation Report

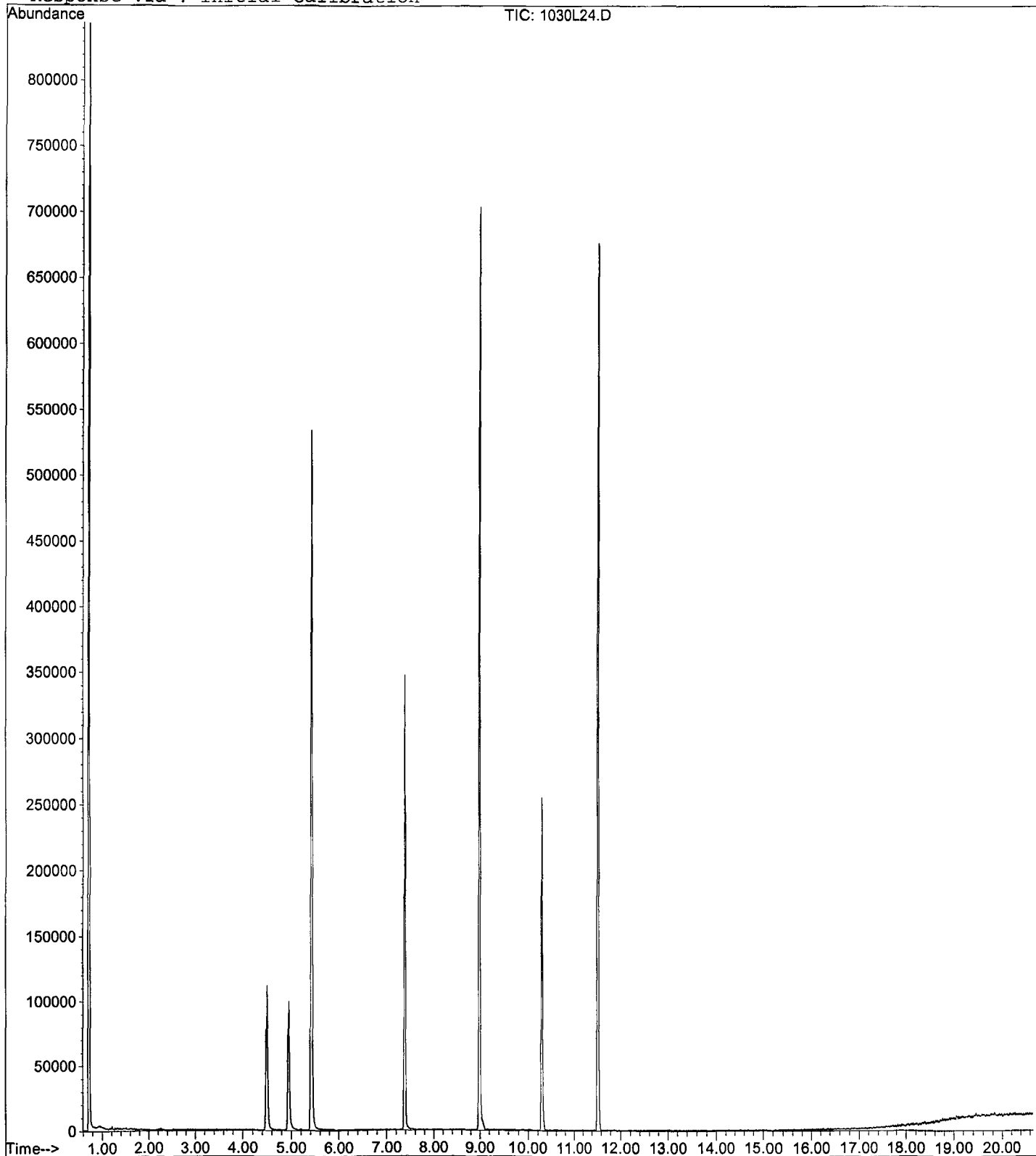
Data File : M:\LOKI\DATA\191023\1030L24.D
Acq On : 31 Oct 19 00:50
Sample : 191030 BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:36 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T21.D
 Acq On : 29 Oct 19 1:11
 Sample : 191028A BLK
 Misc : IS&S 9/23/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:29 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	145408	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	132032	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	72064	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	70206	25.0485	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.192%	
45) 1,2-DCA-D4(S)	6.17	65	78702	25.0778	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.312%	
66) Toluene-D8(S)	8.30	98	243731	24.7194	ppb	0.00
Spiked Amount				25.000		
					Recovery = 98.876%	
74) 4-Bromofluorobenzene(S)	10.92	174	92786	23.7707	ppb	0.00
Spiked Amount				25.000		
					Recovery = 95.084%	

Target Compounds Qvalue

Quantitation Report

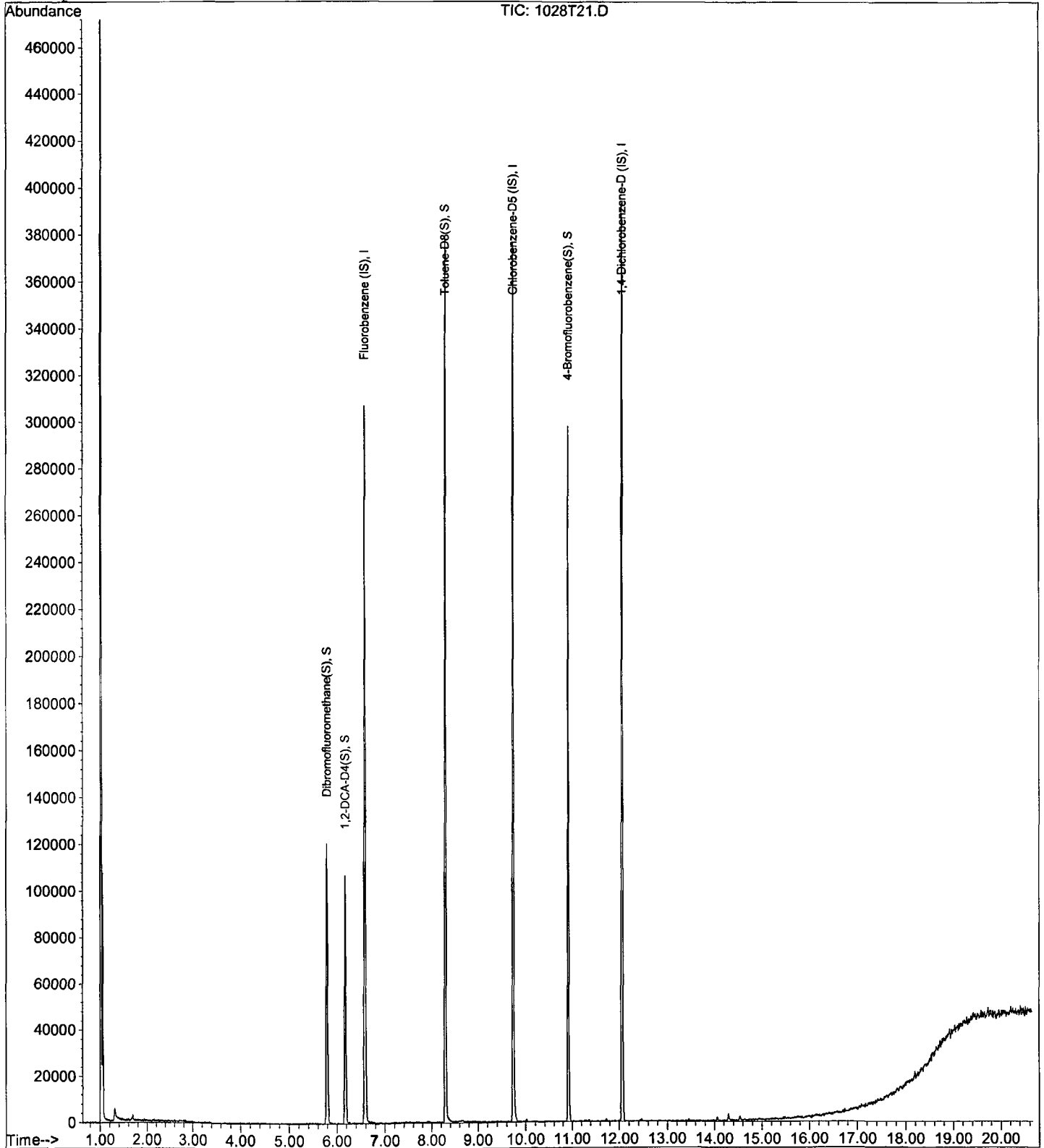
Data File : M:\THOR\DATA\T191028\1028T21.D
Acq On : 29 Oct 19 1:11
Sample : 191028A BLK
Misc : IS&S 9/23/19

Vial: 21
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:29 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L22.D
 Acq On : 28 Oct 19 20:08
 Sample : 191028B LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	300864	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	290688	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	170880	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	89857	24.2578	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.032%	
44) 1,2-DCA-D4(S)	4.95	65	106225	26.6895	ppb	0.00
Spiked Amount	25.000		Recovery	=	106.756%	
65) Toluene-D8(S)	7.38	98	283404	26.7942	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.176%	
73) 4-Bromofluorobenzene(S)	10.29	95	106887	28.5306	ppb	0.00
Spiked Amount	25.000		Recovery	=	114.124%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	7097	10.3409	ppb	86
4) Freon 114	0.91	85	14880	11.0918	ppb	98
5) Chloromethane	0.94	50	15151	7.3264	ppb	99
6) Vinyl chloride	1.01	62	14628	6.6092	ppb	93
8) Bromomethane	1.21	94	17557	6.4710	ppb	98
9) Chloroethane	1.27	64	9194	5.1927	ppb	99
10) Dichlorofluoromethane	1.41	67	27316	6.4131	ppb	94
11) Trichlorofluoromethane	1.45	103	22143	8.7293	ppb	97
13) Acrolein	1.74	56	13779	62.1902	ppb	# 95
14) Acetone	1.87	43	6147	6.6288	ppb	91
15) Freon-113	1.83	101	15012	7.5266	ppb	84
16) 1,1-DCE	1.82	96	14525	8.2446	ppb	97
17) t-Butanol	2.43	59	18380	95.7567	ppb	# 86
19) Acetonitrile	2.10	41	23128	68.3115	ppb	95
20) Methyl Acetate	2.16	43	10543	6.3211	ppb	96
21) Iodomethane	1.92	142	4501	4.3310	ppb	92
22) Acrylonitrile	2.47	53	6193	5.8921	ppb	# 77
23) Methylene chloride	2.23	84	17895	7.7615	ppb	95
24) Carbon disulfide	1.97	76	29336	7.6542	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	38499	8.6458	ppb	# 89
26) Trans-1,2-DCE	2.49	96	16772	8.2494	ppb	92
27) Diisopropyl Ether	3.11	45	34475	8.4284	ppb	# 83
29) 1,1-DCA	2.95	63	27698	8.6891	ppb	94
30) Vinyl Acetate	3.11	45	34475	8.4284	ppb	# 83
31) Ethyl tert Butyl Ether	3.61	59	21233	14.5357	ppb	89
32) MEK (2-Butanone)	3.82	43	1866	10.3174	ppb	# 80
33) Cis-1,2-DCE	3.73	96	16361	9.4320	ppb	94
34) 2,2-Dichloropropane	3.71	77	22288	9.6022	ppb	95
37) Chloroform	4.27	83	31529	9.4049	ppb	99
38) Bromochloromethane	4.09	128	10286	9.2106	ppb	# 69
40) 1,1,1-TCA	4.48	97	30114	10.4646	ppb	89
41) Cyclohexane	4.55	41	9131	8.9790	ppb	# 63
42) 1,1-Dichloropropene	4.74	75	16911	9.8423	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	29123	10.3016	ppb	88
45) Carbon Tetrachloride	4.72	117	27617	10.8383	ppb	94
46) Tert Amyl Methyl Ether	5.27	73	17157	16.6829	ppb	# 85
48) 1,2-DCA	5.05	62	25850	10.5767	ppb	96
49) Benzene	5.01	78	55433	9.2036	ppb	96
50) TCE	5.90	130	18196	9.4679	ppb	# 79

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

Data File : M:\LOKI\DATA\191023\1028L22.D
 Acq On : 28 Oct 19 20:08
 Sample : 191028B LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83152	131.5682	ppb	92
52) 1,2-Dichloropropane	6.17	63	13562	8.8679	ppb	96
53) Bromodichloromethane	6.54	83	25083	10.4149	ppb	96
54) Methyl Cyclohexane	6.13	83	17946	11.3031	ppb	89
55) Dibromomethane	6.30	93	10936	9.1996	ppb	98
57) MIBK (methyl isobutyl ket	7.32	43	8356	10.3236	ppb	92
58) 1-Bromo-2-chloroethane	6.87	63	18002	9.5091	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	21161	10.7813	ppb	94
60) Toluene	7.45	91	62946	10.9198	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	19889	11.6084	ppb	97
62) 1,1,2-TCA	7.93	83	12125	9.8542	ppb	81
63) 2-Hexanone	8.27	43	3592	11.8269	ppb	92
66) 1,2-EDB	8.45	107	15274	10.1638	ppb	85
67) Tetrachloroethene	8.07	166	23582	10.5081	ppb	97
68) 1-Chlorohexane	9.05	91	14304	10.4264	ppb	92
69) 1,1,1,2-Tetrachloroethane	9.13	131	21876	10.8584	ppb	98
70) m&p-Xylene	9.30	91	103735	21.2801	ppb	97
71) o-Xylene	9.73	106	24382	10.8666	ppb	100
72) Styrene	9.75	104	39776	10.0869	ppb	95
74) 1,3-Dichloropropane	8.11	76	22737	9.6789	ppb	94
75) Dibromochloromethane	8.35	129	21500	9.8114	ppb	90
76) Chlorobenzene	9.01	112	46627	9.7393	ppb	91
77) Ethylbenzene	9.17	91	67035	11.8793	ppb	94
78) Bromoform	9.91	173	17711	11.1411	ppb	82
80) Isopropylbenzene	10.14	105	38184	10.7311	ppb	95
81) 1,1,2,2-Tetrachloroethane	10.47	83	18878	8.4521	ppb	92
82) 1,2,3-Trichloropropane	10.50	110	7244	9.6455	ppb	97
83) t-1,4-Dichloro-2-Butene	10.54	53	2812	11.1729	ppb	95
84) Bromobenzene	10.43	156	22422	9.3321	ppb	96
85) n-Propylbenzene	10.59	91	69038	9.8775	ppb	95
86) 4-Ethyltoluene	10.72	105	59919	9.8680	ppb	97
87) 2-Chlorotoluene	10.65	91	27504	10.1402	ppb	83
88) 1,3,5-Trimethylbenzene	10.79	105	54447	9.4976	ppb	94
89) 4-Chlorotoluene	10.78	126	10441	10.0922	ppb	89
90) Tert-Butylbenzene	11.14	119	47695	10.6756	ppb	92
91) 1,2,4-Trimethylbenzene	11.19	105	52884	10.2174	ppb	97
92) Sec-Butylbenzene	11.37	105	65121	10.8279	ppb	99
93) p-Isopropyltoluene	11.54	119	60033	9.8882	ppb	91
94) Benzyl Chloride	11.71	91	15429	9.9662	ppb	93
95) 1,3-DCB	11.46	146	39397	10.1398	ppb	94
96) 1,4-DCB	11.56	146	42977	9.1637	ppb	96
97) n-Butylbenzene	11.98	91	41506	10.5758	ppb	89
98) 1,2-DCB	11.95	146	38303	9.8094	ppb	93
99) Hexachloroethane	12.23	201	16088	13.0988	ppb	83
100) 1,2-Dibromo-3-chloropropan	12.79	75	3386	11.5005	ppb #	91
101) 1,2,4-Trichlorobenzene	13.69	180	20924	16.3046	ppb	79
102) Hexachlorobutadiene	13.90	223	5536	15.9672	ppb #	81
103) Naphthalene	13.94	128	31668	16.8822	ppb	90
104) 1,2,3-Trichlorobenzene	14.20	182	10755	14.3671	ppb #	89

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

Quantitation Report

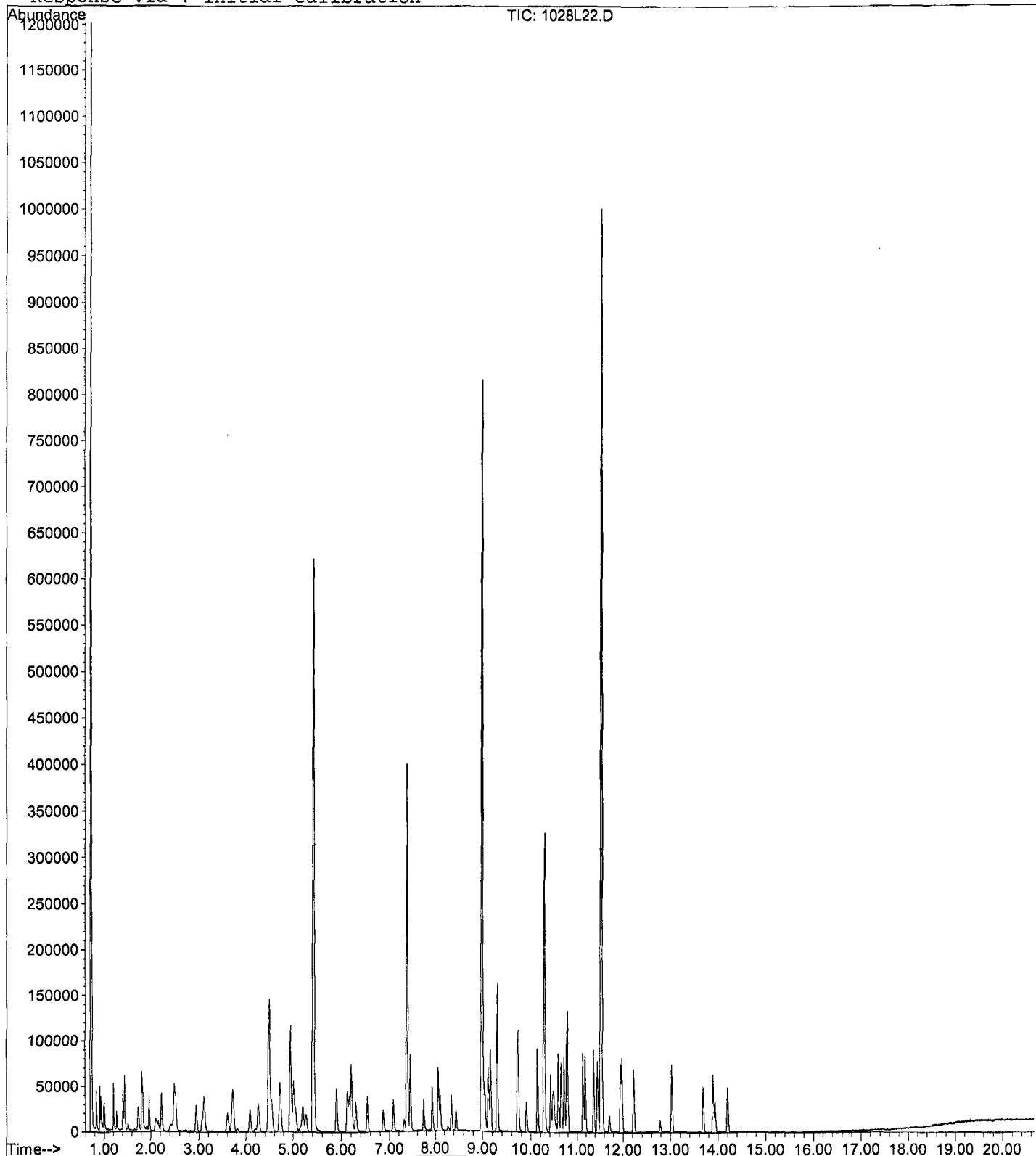
Data File : M:\LOKI\DATA\191023\1028L22.D
Acq On : 28 Oct 19 20:08
Sample : 191028B LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L19.D
 Acq On : 30 Oct 19 22:28
 Sample : 191030 LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min).
1) Fluorobenzene (IS)	5.42	96	292736	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	276032	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156032	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	86094	23.8873	ppb	0.00
Spiked Amount			Recovery	=	95.548%	
44) 1,2-DCA-D4 (S)	4.95	65	104013	26.8593	ppb	0.00
Spiked Amount			Recovery	=	107.436%	
65) Toluene-D8 (S)	7.38	98	275341	27.4140	ppb	0.00
Spiked Amount			Recovery	=	109.656%	
73) 4-Bromofluorobenzene (S)	10.29	95	100869	28.3538	ppb	0.00
Spiked Amount			Recovery	=	113.416%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	6578	9.8536	ppb	96
4) Freon 114	0.91	85	14388	11.0135	ppb	94
5) Chloromethane	0.94	50	14001	6.9292	ppb	100
6) Vinyl chloride	1.01	62	15172	7.0453	ppb	95
8) Bromomethane	1.21	94	18174	6.9120	ppb	99
9) Chloroethane	1.28	64	8831	5.1232	ppb	92
10) Dichlorofluoromethane	1.41	67	28627	6.9075	ppb	95
11) Trichlorofluoromethane	1.45	103	22952	9.2995	ppb	95
13) Acrolein	1.74	56	12979	60.2060	ppb	# 97
14) Acetone	1.88	43	5461	5.6473	ppb	89
15) Freon-113	1.83	101	14642	7.5450	ppb	91
16) 1,1-DCE	1.82	96	14045	8.1866	ppb	99
17) t-Butanol	2.43	59	15144	81.2697	ppb	# 88
19) Acetonitrile	2.11	41	20030	60.8038	ppb	95
20) Methyl Acetate	2.16	43	8813	5.3358	ppb	97
21) Iodomethane	1.92	142	3313	3.6934	ppb	88
22) Acrylonitrile	2.47	53	5845	5.6362	ppb	# 79
23) Methylene chloride	2.23	84	16538	7.2805	ppb	92
24) Carbon disulfide	1.97	76	30784	8.2808	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	35249	8.1357	ppb	92
26) Trans-1,2-DCE	2.49	96	17519	8.9233	ppb	89
27) Diisopropyl Ether	3.11	45	37206	9.3487	ppb	# 88
29) 1,1-DCA	2.95	63	27356	8.8201	ppb	89
30) Vinyl Acetate	3.11	45	37206	9.3487	ppb	# 88
31) Ethyl tert Butyl Ether	3.61	59	18240	12.8335	ppb	92
32) MEK (2-Butanone)	3.82	43	1370	7.9572	ppb	# 79
33) Cis-1,2-DCE	3.73	96	16458	9.7711	ppb	97
34) 2,2-Dichloropropane	3.71	77	21451	9.4982	ppb	# 91
37) Chloroform	4.27	83	31693	9.7163	ppb	96
38) Bromochloromethane	4.09	128	10230	9.4148	ppb	# 65
40) 1,1,1-TCA	4.48	97	31069	11.0963	ppb	94
41) Cyclohexane	4.55	41	9203	9.2978	ppb	76
42) 1,1-Dichloropropene	4.73	75	16221	9.7029	ppb	89
43) 2,2,4-Trimethylpentane	5.20	57	27234	9.9009	ppb	88
45) Carbon Tetrachloride	4.72	117	30323	12.2306	ppb	95
46) Tert Amyl Methyl Ether	5.27	73	13609	13.6003	ppb	# 91
48) 1,2-DCA	5.05	62	25291	10.6353	ppb	96
49) Benzene	5.01	78	57107	9.7448	ppb	97
50) TCE	5.90	130	19559	10.4597	ppb	# 87

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

Data File : M:\LOKI\DATA\191023\1030L19.D
 Acq On : 30 Oct 19 22:28
 Sample : 191030 LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	70260	114.2563	ppb	97
52) 1,2-Dichloropropane	6.17	63	12768	8.5805	ppb	99
53) Bromodichloromethane	6.54	83	25359	10.8219	ppb	96
54) Methyl Cyclohexane	6.12	83	17392	11.2583	ppb	92
55) Dibromomethane	6.30	93	10507	9.0841	ppb	82
57) MIBK (methyl isobutyl ket	7.31	43	8213	10.4291	ppb	# 84
58) 1-Bromo-2-chloroethane	6.87	63	17154	9.3128	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	19195	10.0512	ppb	95
60) Toluene	7.45	91	66341	11.8283	ppb	98
61) Trans-1,3-Dichloropropene	7.74	75	19270	11.5594	ppb	95
62) 1,1,2-TCA	7.93	83	11346	9.4771	ppb	79
63) 2-Hexanone	8.27	43	3157	10.7711	ppb	97
66) 1,2-EDB	8.45	107	14073	9.8618	ppb	91
67) Tetrachloroethene	8.07	166	21997	10.3223	ppb	92
68) 1-Chlorohexane	9.05	91	15163	11.6394	ppb	99
69) 1,1,1,2-Tetrachloroethane	9.12	131	20319	10.6001	ppb	93
70) m&p-Xylene	9.30	91	102708	22.0951	ppb	96
71) o-Xylene	9.72	106	24103	11.3126	ppb	94
72) Styrene	9.74	104	39733	10.5311	ppb	98
74) 1,3-Dichloropropane	8.11	76	21238	9.5208	ppb	94
75) Dibromochloromethane	8.35	129	20383	9.7955	ppb	94
76) Chlorobenzene	9.01	112	46972	10.3324	ppb	89
77) Ethylbenzene	9.17	91	64774	12.0881	ppb	95
78) Bromoform	9.91	173	16329	10.8172	ppb	87
80) Isopropylbenzene	10.14	105	36048	11.0949	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	16797	8.1653	ppb	98
82) 1,2,3-Trichloropropane	10.49	110	6794	9.9175	ppb	95
83) t-1,4-Dichloro-2-Butene	10.54	53	1840	8.0066	ppb	84
84) Bromobenzene	10.42	156	21690	9.8865	ppb	94
85) n-Propylbenzene	10.59	91	67337	10.5025	ppb	100
86) 4-Ethyltoluene	10.72	105	56758	10.1967	ppb	98
87) 2-Chlorotoluene	10.65	91	25768	10.4042	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	54920	10.4183	ppb	100
89) 4-Chlorotoluene	10.78	126	9525	10.0829	ppb	90
90) Tert-Butylbenzene	11.13	119	54656	13.3979	ppb	95
91) 1,2,4-Trimethylbenzene	11.19	105	49881	10.5109	ppb	100
92) Sec-Butylbenzene	11.37	105	61320	11.1661	ppb	99
93) p-Isopropyltoluene	11.54	119	60446	10.9036	ppb	95
94) Benzyl Chloride	11.71	91	11477	8.1189	ppb	95
95) 1,3-DCB	11.46	146	39126	11.0283	ppb	89
96) 1,4-DCB	11.56	146	40527	9.4636	ppb	99
97) n-Butylbenzene	11.98	91	41906	11.6938	ppb	97
98) 1,2-DCB	11.95	146	37277	10.4551	ppb	96
99) Hexachloroethane	12.23	201	16243	14.3892	ppb	87
100) 1,2-Dibromo-3-chloropropan	12.79	75	3165	11.7669	ppb	98
101) 1,2,4-Trichlorobenzene	13.69	180	18310	15.7042	ppb	85
102) Hexachlorobutadiene	13.90	223	5421	17.0381	ppb	82
103) Naphthalene	13.94	128	24428	14.6573	ppb	98
104) 1,2,3-Trichlorobenzene	14.20	182	9065	13.4751	ppb	# 93

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

1030L19.D L1023W.M Tue Nov 19 11:00:40 2019

Quantitation Report

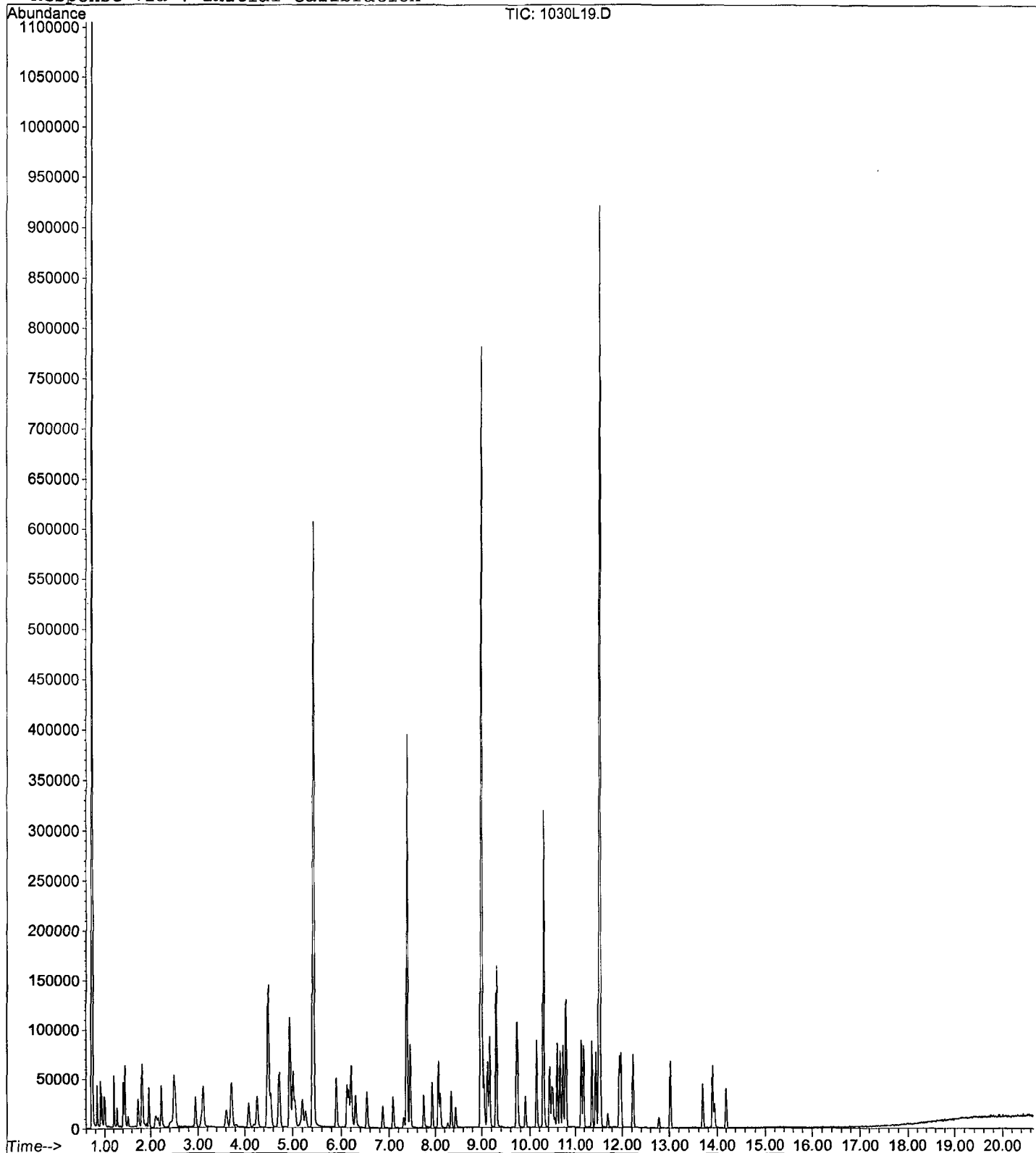
Data File : M:\LOKI\DATA\191023\1030L19.D
Acq On : 30 Oct 19 22:28
Sample : 191030 LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 19
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T16.D
 Acq On : 28 Oct 19 22:50
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	153088	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	142528	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	80472	25.0000	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	73098	24.7719	ppb	0.00
Spiked Amount			Recovery	=	99.088%	
45) 1,2-DCA-D4(S)	6.17	65	81114	24.5497	ppb	0.00
Spiked Amount			Recovery	=	98.200%	
66) Toluene-D8(S)	8.30	98	259828	24.4114	ppb	0.00
Spiked Amount			Recovery	=	97.644%	
74) 4-Bromofluorobenzene(S)	10.92	174	102100	24.2306	ppb	0.00
Spiked Amount			Recovery	=	96.924%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.20	85	14557	10.2576	ppb	95
4) Freon 114	1.32	85	7578	12.1102	ppb	98
5) Chloromethane	1.36	50	12630	11.2667	ppb	99
6) Vinyl chloride	1.46	62	10558	10.1703	ppb	97
8) Bromomethane	1.75	96	7603	12.3154	ppb	98
9) Chloroethane	1.86	64	8111	10.9608	ppb	99
10) Dichlorofluoromethane	2.06	67	20369	10.8053	ppb	94
11) Trichlorofluoromethane	2.12	101	21344	11.0333	ppb	82
13) Acrolein	2.55	55	6220	106.1518	ppb	98
14) Acetone	2.73	43	4059	10.7675	ppb	96
15) Freon-113	2.69	101	8610	10.7923	ppb	# 94
16) 1,1-DCE	2.67	61	14001	10.2109	ppb	94
18) Acetonitrile	3.06	41	14118	113.2352	ppb	94
19) t-Butanol	3.53	59	10766	105.9552	ppb	96
20) Methyl Acetate	3.17	43	6223	8.8583	ppb	91
21) Iodomethane	2.82	142	5636	8.5827	ppb	91
22) Acrylonitrile	3.61	53	3081	8.7865	ppb	93
23) Methylene chloride	3.27	49	12425	9.9369	ppb	91
24) Carbon disulfide	2.89	76	28507	12.1417	ppb	99
25) Methyl t-butyl ether (MtBE)	3.73	73	29630	9.6080	ppb	96
26) Trans-1,2-DCE	3.67	61	14204	10.5905	ppb	95
28) Diisopropyl Ether	4.54	45	10787	9.2565	ppb	90
30) 1,1-DCA	4.32	63	7236	9.4003	ppb	95
31) Vinyl Acetate	4.54	87	9041	9.8483	ppb	96
32) Ethyl tert Butyl Ether	5.06	59	29242	9.3228	ppb	# 89
33) MEK (2-Butanone)	5.22	43	3632	9.1079	ppb	# 35
34) Cis-1,2-DCE	5.16	61	16565	10.2000	ppb	# 92
35) 2,2-Dichloropropane	5.15	77	6875	10.6462	ppb	89
38) Chloroform	5.59	83	10934	10.2711	ppb	97
39) Bromochloromethane	5.46	130	4458	9.7571	ppb	94
41) 1,1,1-TCA	5.80	97	8606	9.5831	ppb	89
42) Cyclohexane	5.88	84	12088	9.8659	ppb	89
43) 1,1-Dichloropropene	6.02	75	13000	9.7174	ppb	96
44) 2,2,4-Trimethylpentane	6.41	57	9286	9.9788	ppb	99
46) Carbon Tetrachloride	6.01	119	16727	10.5519	ppb	92
47) Tert Amyl Methyl Ether	6.45	73	30353	9.5236	ppb	98
49) 1,2-DCA	6.26	62	9207	10.0011	ppb	98
50) Benzene	6.25	78	42533	9.7643	ppb	94
51) TCE	7.00	130	13705	10.1411	ppb	94

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

Data File : M:\THOR\DATA\T191028\1028T16.D
 Acq On : 28 Oct 19 22:50
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.22	43	73934	108.6133	ppb	100
53) 1,2-Dichloropropane	7.23	63	10699	9.6641	ppb	98
54) Bromodichloromethane	7.54	83	16295	9.6124	ppb	91
55) Methyl Cyclohexane	7.22	83	14176	10.5020	ppb	90
56) Dibromomethane	7.34	174	10419	10.6824	ppb	98
57) MIBK (methyl isobutyl ket	9.05	43	2869	8.2630	ppb	# 77
58) 1-Bromo-2-chloroethane	7.85	63	13927	9.7616	ppb	97
60) Cis-1,3-Dichloropropene	8.02	75	17841	10.0637	ppb	98
61) Toluene	8.36	91	49491	10.0225	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	10456	9.4354	ppb	87
63) 1,1,2-TCA	8.77	97	11150	10.0701	ppb	96
64) 2-Hexanone	8.20	43	4463	8.6700	ppb	95
67) 1,2-EDB	9.26	107	6592	9.6584	ppb	93
68) Tetrachloroethene	8.92	166	15420	11.4211	ppb	97
69) 1-Chlorohexane	9.77	91	12243	9.8704	ppb	98
70) 1,1,1,2-Tetrachloroethane	9.86	131	12908	9.3603	ppb	81
71) m&p-Xylene	10.02	91	81284	19.6912	ppb	96
72) o-Xylene	10.40	91	42005	9.5209	ppb	95
73) Styrene	10.41	104	29122	9.3050	ppb	93
75) 1,3-Dichloropropane	8.93	76	17738	9.9776	ppb	100
76) Dibromochloromethane	9.15	129	13233	9.5699	ppb	94
77) Chlorobenzene	9.77	112	20984	9.9844	ppb	98
78) Ethylbenzene	9.90	91	49399	9.5889	ppb	97
79) Bromoform	10.58	173	10768	9.6694	ppb	95
81) Isopropylbenzene	10.78	105	49071	9.9244	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	12576	9.6769	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	4275	9.6428	ppb	94
84) t-1,4-Dichloro-2-Butene	11.11	53	2305	8.7068	ppb	93
85) Bromobenzene	11.06	77	12484	9.6912	ppb	82
86) n-Propylbenzene	11.19	91	53259	9.6922	ppb	99
87) 4-Ethyltoluene	11.30	105	47919	10.1624	ppb	97
88) 2-Chlorotoluene	11.26	91	23662	10.3864	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	43008	10.2595	ppb	99
90) 4-Chlorotoluene	11.37	91	27072	10.4420	ppb	94
91) Tert-Butylbenzene	11.69	119	42540	11.2445	ppb	94
92) 1,2,4-Trimethylbenzene	11.74	105	42274	9.8336	ppb	97
93) Sec-Butylbenzene	11.91	105	49509	10.0972	ppb	99
94) p-Isopropyltoluene	12.06	119	42377	9.8417	ppb	100
95) Benzyl Chloride	12.22	91	8721	8.6728	ppb	97
96) 1,3-DCB	12.00	146	18472	9.8603	ppb	98
97) 1,4-DCB	12.09	146	28583	10.0747	ppb	94
98) n-Butylbenzene	12.46	91	33021	10.0921	ppb	99
99) 1,2-DCB	12.45	146	17432	10.2273	ppb	97
100) Hexachloroethane	12.72	117	5756	10.9901	ppb	90
101) 1,2-Dibromo-3-chloropropan	13.22	157	1789	9.6247	ppb	# 81
102) 1,2,4-Trichlorobenzene	14.06	182	10762	10.5243	ppb	98
103) Hexachlorobutadiene	14.25	225	6785	10.8379	ppb	93
104) Naphthalene	14.30	128	27893	10.7880	ppb	96
105) 1,2,3-Trichlorobenzene	14.54	182	15961	11.1360	ppb	# 79

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

1028T16.D T1023W.M Tue Nov 19 10:56:24 2019

Quantitation Report

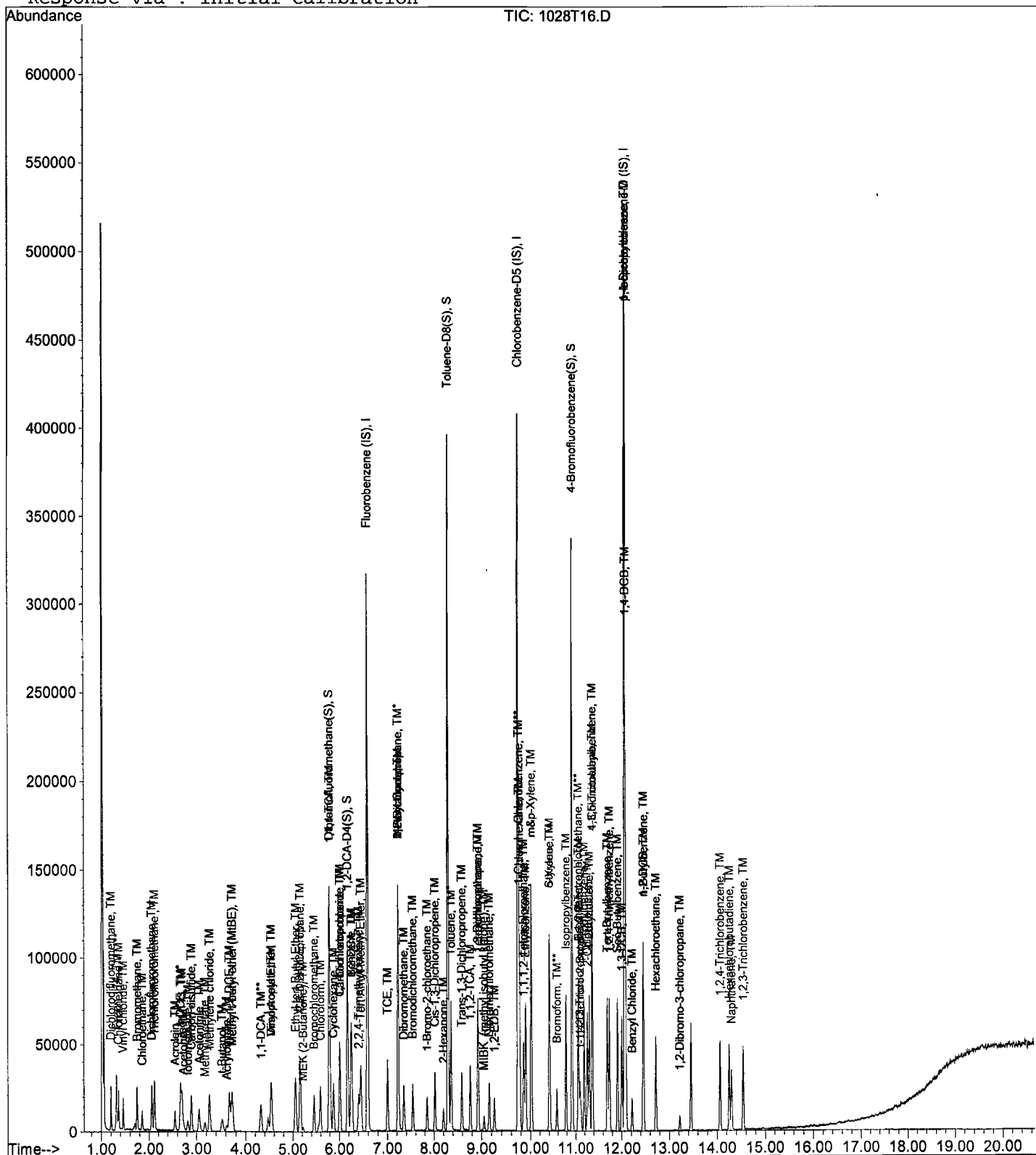
Data File : M:\THOR\DATA\T191028\1028T16.D
 Acq On : 28 Oct 19 22:50
 Sample : 191028A CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L23.D
 Acq On : 28 Oct 19 20:36
 Sample : 191028B LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	289664	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	288256	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	163456	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86891	24.3641	ppb	0.00
Spiked Amount			Recovery	=	97.456%	
44) 1,2-DCA-D4(S)	4.95	65	103456	26.9988	ppb	0.00
Spiked Amount			Recovery	=	107.996%	
65) Toluene-D8(S)	7.38	98	281257	26.8155	ppb	0.00
Spiked Amount			Recovery	=	107.264%	
73) 4-Bromofluorobenzene(S)	10.28	95	105468	28.3893	ppb	0.00
Spiked Amount			Recovery	=	113.556%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.83	87	6882	10.4149	ppb	98
4) Freon 114	0.91	85	14290	11.0601	ppb	96
5) Chloromethane	0.94	50	14945	7.5204	ppb	98
6) Vinyl chloride	1.01	62	15641	7.3401	ppb	91
8) Bromomethane	1.21	94	16847	6.4480	ppb	96
9) Chloroethane	1.27	64	8539	5.0010	ppb	97
10) Dichlorofluoromethane	1.41	67	26751	6.5233	ppb	97
11) Trichlorofluoromethane	1.45	103	22717	9.3019	ppb	84
13) Acrolein	1.74	56	14405	67.5295	ppb	# 85
14) Acetone	1.88	43	5762	6.3308	ppb	92
15) Freon-113	1.83	101	14693	7.6515	ppb	93
16) 1,1-DCE	1.82	96	14465	8.5662	ppb	86
17) t-Butanol	2.42	59	18493	100.0173	ppb	97
19) Acetonitrile	2.11	41	22004	67.5045	ppb	95
20) Methyl Acetate	2.16	43	10042	6.2463	ppb	95
21) Iodomethane	1.92	142	5214	4.8631	ppb	95
22) Acrylonitrile	2.47	53	5758	5.5994	ppb	# 80
23) Methylene chloride	2.23	84	17552	7.9413	ppb	93
24) Carbon disulfide	1.97	76	29632	8.0465	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	37943	8.8504	ppb	92
26) Trans-1,2-DCE	2.49	96	15959	8.1423	ppb	94
27) Diisopropyl Ether	3.11	45	34585	8.7823	ppb	93
29) 1,1-DCA	2.95	63	26090	8.5011	ppb	91
30) Vinyl Acetate	3.11	45	34585	8.7823	ppb	93
31) Ethyl tert Butyl Ether	3.61	59	20201	14.3639	ppb	93
32) MEK (2-Butanone)	3.81	43	1678	9.6829	ppb	96
33) Cis-1,2-DCE	3.72	96	15654	9.3697	ppb	93
34) 2,2-Dichloropropane	3.71	77	21849	9.7770	ppb	# 91
37) Chloroform	4.27	83	30189	9.3534	ppb	98
38) Bromochloromethane	4.09	128	9736	9.0552	ppb	72
40) 1,1,1-TCA	4.48	97	30669	11.0696	ppb	92
41) Cyclohexane	4.55	41	8640	8.8262	ppb	# 63
42) 1,1-Dichloropropene	4.74	75	17268	10.4387	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	28592	10.5048	ppb	87
45) Carbon Tetrachloride	4.72	117	27108	11.0498	ppb	85
46) Tert Amyl Methyl Ether	5.27	73	17097	17.2673	ppb	94
48) 1,2-DCA	5.05	62	24149	10.2627	ppb	91
49) Benzene	5.01	78	56078	9.6707	ppb	95
50) TCE	5.90	130	18978	10.2566	ppb	93

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

Data File : M:\LOKI\DATA\191023\1028L23.D
 Acq On : 28 Oct 19 20:36
 Sample : 191028B LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260E
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	83666	137.5000	ppb	95
52) 1,2-Dichloropropane	6.17	63	14094	9.5721	ppb	97
53) Bromodichloromethane	6.54	83	24996	10.7801	ppb	93
54) Methyl Cyclohexane	6.12	83	16797	10.9885	ppb	94
55) Dibromomethane	6.30	93	10552	9.2198	ppb	88
57) MIBK (methyl isobutyl ket	7.32	43	8570	11.0006	ppb #	92
58) 1-Bromo-2-chloroethane	6.87	63	18589	10.1988	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	20135	10.6552	ppb	93
60) Toluene	7.45	91	63418	11.4270	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	19738	11.9657	ppb	94
62) 1,1,2-TCA	7.93	83	11845	9.9989	ppb	87
63) 2-Hexanone	8.27	43	3574	12.1922	ppb #	78
66) 1,2-EDB	8.44	107	14871	9.9791	ppb #	95
67) Tetrachloroethene	8.07	166	23252	10.4485	ppb	94
68) 1-Chlorohexane	9.05	91	14418	10.5982	ppb	95
69) 1,1,1,2-Tetrachloroethane	9.12	131	20091	9.9855	ppb	91
70) m&p-Xylene	9.30	91	98985	20.5593	ppb	100
71) o-Xylene	9.72	106	24285	10.9147	ppb	96
72) Styrene	9.74	104	39844	10.1738	ppb	100
74) 1,3-Dichloropropane	8.11	76	22562	9.6854	ppb	97
75) Dibromochloromethane	8.35	129	20956	9.6438	ppb	94
76) Chlorobenzene	9.01	112	44063	9.2814	ppb	89
77) Ethylbenzene	9.17	91	65928	11.7817	ppb	93
78) Bromoform	9.91	173	17723	11.2427	ppb	93
80) Isopropylbenzene	10.14	105	36920	10.8472	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	18983	9.0270	ppb	99
82) 1,2,3-Trichloropropane	10.49	110	7273	10.1429	ppb	100
83) t-1,4-Dichloro-2-Butene	10.53	53	2757	11.4519	ppb	97
84) Bromobenzene	10.43	156	22049	9.5936	ppb	98
85) n-Propylbenzene	10.59	91	68168	10.1731	ppb	97
86) 4-Ethyltoluene	10.72	105	56013	9.6682	ppb	96
87) 2-Chlorotoluene	10.65	91	26424	10.1845	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	52310	9.5362	ppb	97
89) 4-Chlorotoluene	10.78	126	9611	9.7118	ppb #	67
90) Tert-Butylbenzene	11.14	119	52408	12.2633	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	50399	10.1844	ppb	99
92) Sec-Butylbenzene	11.37	105	62567	10.8757	ppb	99
93) p-Isopropyltoluene	11.54	119	60858	10.4793	ppb	95
94) Benzyl Chloride	11.71	91	15090	10.1900	ppb	99
95) 1,3-DCB	11.46	146	39504	10.6291	ppb	91
96) 1,4-DCB	11.56	146	41908	9.3416	ppb	99
97) n-Butylbenzene	11.98	91	41142	10.9591	ppb	95
98) 1,2-DCB	11.95	146	38859	10.4038	ppb	90
99) Hexachloroethane	12.23	201	15327	13.0496	ppb	89
100) 1,2-Dibromo-3-chloropropan	12.79	75	3544	12.5603	ppb	97
101) 1,2,4-Trichlorobenzene	13.69	180	21503	17.3658	ppb	86
102) Hexachlorobutadiene	13.89	223	5870	17.5717	ppb #	76
103) Naphthalene	13.94	128	32720	17.9985	ppb	90
104) 1,2,3-Trichlorobenzene	14.20	182	10769	14.9094	ppb #	93

(#) = qualifier out of range (m) = manual integration
 1028L23.D L1023W.M Tue Nov 19 11:00:33 2019

Quantitation Report

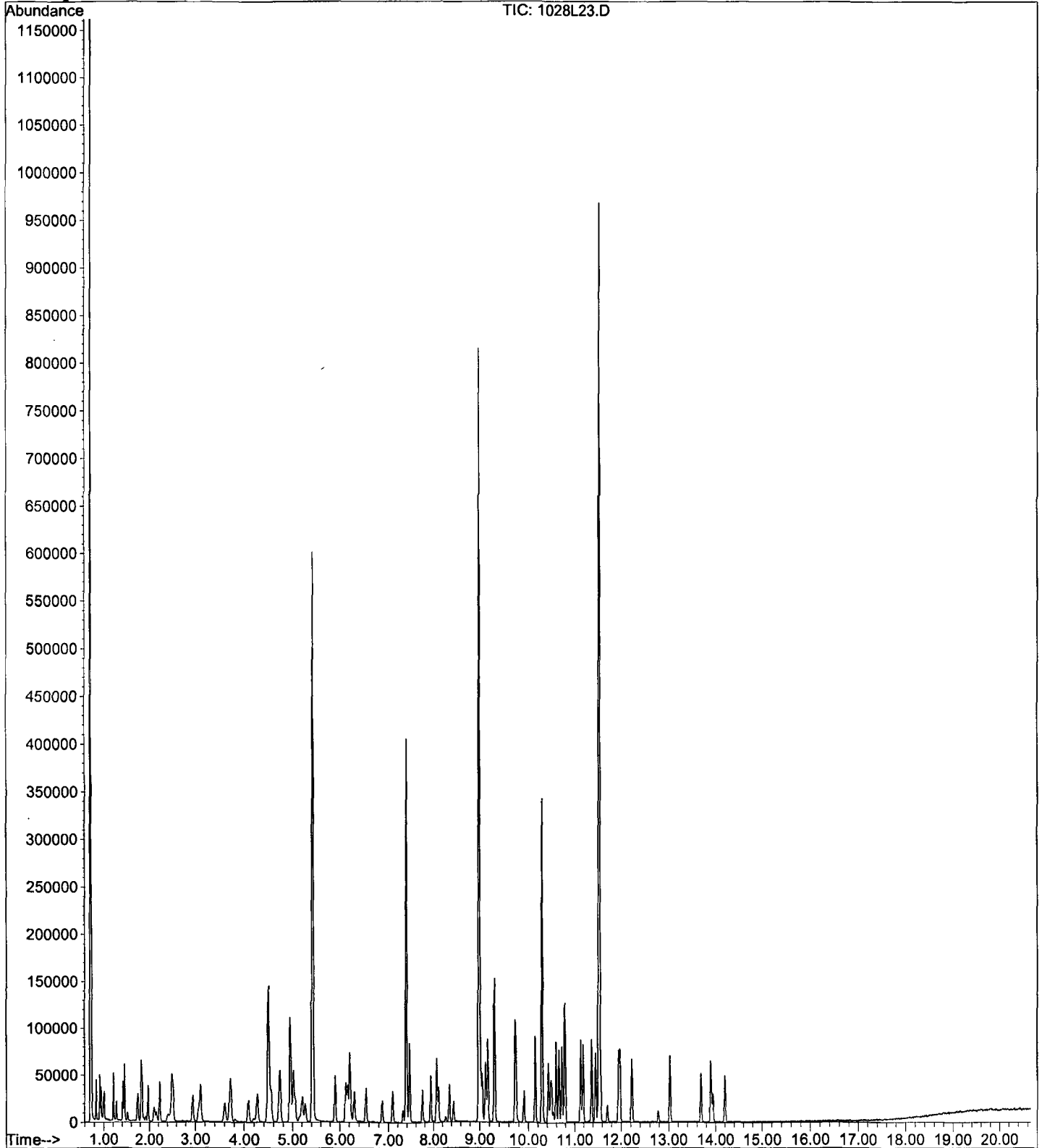
Data File : M:\LOKI\DATA\191023\1028L23.D
Acq On : 28 Oct 19 20:36
Sample : 191028B LCSD 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 8:57 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L20.D
 Acq On : 30 Oct 19 22:57
 Sample : 191030 LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283840	25.0000	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	278400	25.0000	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156480	25.0000	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	83830	23.9881	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.952%	
44) 1,2-DCA-D4(S)	4.95	65	101639	27.0689	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.276%	
65) Toluene-D8(S)	7.38	98	268118	26.4678	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.872%	
73) 4-Bromofluorobenzene(S)	10.28	95	100480	28.0042	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.016%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.83	87	6576	10.1575	ppb	96
4) Freon 114	0.91	85	15128	12.0705	ppb	100
5) Chloromethane	0.94	50	13022	6.6231	ppb	90
6) Vinyl chloride	1.01	62	13888	6.6512	ppb	95
8) Bromomethane	1.21	94	17662	6.9288	ppb	94
9) Chloroethane	1.27	64	9559	5.7462	ppb	99
10) Dichlorofluoromethane	1.41	67	27156	6.7579	ppb	93
11) Trichlorofluoromethane	1.45	103	22594	9.4413	ppb	92
13) Acrolein	1.74	56	12397	59.3086	ppb	# 92
14) Acetone	1.88	43	5334	5.7231	ppb	98
15) Freon-113	1.83	101	13975	7.4269	ppb	86
16) 1,1-DCE	1.82	96	14013	8.4562	ppb	100
17) t-Butanol	2.42	59	15796	87.3358	ppb	98
19) Acetonitrile	2.11	41	19714	61.7202	ppb	94
20) Methyl Acetate	2.16	43	8914	5.5952	ppb	93
21) Iodomethane	1.92	142	3511	3.8775	ppb	91
22) Acrylonitrile	2.47	53	4923	4.5487	ppb	97
23) Methylene chloride	2.23	84	16102	7.3183	ppb	91
24) Carbon disulfide	1.97	76	29416	8.1560	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	34368	8.1810	ppb	92
26) Trans-1,2-DCE	2.49	96	15932	8.3125	ppb	87
27) Diisopropyl Ether	3.11	45	33953	8.7987	ppb	90
29) 1,1-DCA	2.95	63	26351	8.7624	ppb	93
30) Vinyl Acetate	3.11	45	33953	8.7987	ppb	90
31) Ethyl tert Butyl Ether	3.61	59	16749	12.1538	ppb	90
32) MEK (2-Butanone)	3.82	43	1491	8.8457	ppb	98
33) Cis-1,2-DCE	3.72	96	16373	10.0405	ppb	89
34) 2,2-Dichloropropane	3.71	77	20159	9.2059	ppb	93
37) Chloroform	4.27	83	30788	9.7347	ppb	93
38) Bromochloromethane	4.09	128	10196	9.6776	ppb	# 59
40) 1,1,1-TCA	4.48	97	30756	11.3288	ppb	98
41) Cyclohexane	4.54	41	8533	8.8950	ppb	84
42) 1,1-Dichloropropene	4.74	75	16169	9.9749	ppb	90
43) 2,2,4-Trimethylpentane	5.20	57	27198	10.1977	ppb	87
45) Carbon Tetrachloride	4.72	117	28661	11.9226	ppb	96
46) Tert Amyl Methyl Ether	5.27	73	13176	13.5803	ppb	# 86
48) 1,2-DCA	5.05	62	23656	10.2595	ppb	98
49) Benzene	5.01	78	54367	9.5680	ppb	95
50) TCE	5.90	130	19301	10.6452	ppb	# 82

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

Data File : M:\LOKI\DATA\191023\1030L20.D
 Acq On : 30 Oct 19 22:57
 Sample : 191030 LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	68050	114.1308	ppb	94
52) 1,2-Dichloropropane	6.17	63	13429	9.3076	ppb	98
53) Bromodichloromethane	6.54	83	24195	10.6487	ppb	97
54) Methyl Cyclohexane	6.12	83	16641	11.1098	ppb	98
55) Dibromomethane	6.30	93	10943	9.7576	ppb	83
57) MIBK (methyl isobutyl ket	7.31	43	8008	10.4878	ppb	96
58) 1-Bromo-2-chloroethane	6.87	63	16339	9.1483	ppb	94
59) Cis-1,3-Dichloropropene	7.08	75	19800	10.6929	ppb	88
60) Toluene	7.45	91	61503	11.3094	ppb	95
61) Trans-1,3-Dichloropropene	7.74	75	18902	11.6940	ppb	91
62) 1,1,2-TCA	7.93	83	11275	9.7130	ppb	90
63) 2-Hexanone	8.27	43	3004	10.5873	ppb	# 86
66) 1,2-EDB	8.45	107	13115	9.1123	ppb	# 76
67) Tetrachloroethene	8.07	166	22338	10.3932	ppb	97
68) 1-Chlorohexane	9.05	91	14400	10.9597	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.12	131	20173	10.4193	ppb	86
70) m&p-Xylene	9.30	91	99476	21.3043	ppb	98
71) o-Xylene	9.72	106	23877	11.1112	ppb	92
72) Styrene	9.74	104	38170	10.1039	ppb	97
74) 1,3-Dichloropropane	8.11	76	22076	9.8123	ppb	96
75) Dibromochloromethane	8.35	129	21111	10.0591	ppb	99
76) Chlorobenzene	9.01	112	44147	9.6283	ppb	88
77) Ethylbenzene	9.17	91	63563	11.7612	ppb	92
78) Bromoform	9.91	173	16501	10.8381	ppb	94
80) Isopropylbenzene	10.14	105	35064	10.7611	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	15443	7.2552	ppb	95
82) 1,2,3-Trichloropropane	10.49	110	6118	8.8661	ppb	94
83) t-1,4-Dichloro-2-Butene	10.53	53	2061	8.9425	ppb	92
84) Bromobenzene	10.43	156	20862	9.4818	ppb	91
85) n-Propylbenzene	10.59	91	65020	10.1385	ppb	97
86) 4-Ethyltoluene	10.72	105	57652	10.3139	ppb	98
87) 2-Chlorotoluene	10.65	91	26960	10.8543	ppb	83
88) 1,3,5-Trimethylbenzene	10.79	105	53082	10.0662	ppb	97
89) 4-Chlorotoluene	10.77	126	9777	10.3200	ppb	89
90) Tert-Butylbenzene	11.13	119	46803	11.4400	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	51080	10.7049	ppb	97
92) Sec-Butylbenzene	11.37	105	62899	11.4209	ppb	99
93) p-Isopropyltoluene	11.54	119	55876	10.0504	ppb	92
94) Benzyl Chloride	11.71	91	11961	8.4371	ppb	99
95) 1,3-DCB	11.46	146	39442	11.0856	ppb	96
96) 1,4-DCB	11.56	146	39609	9.2228	ppb	99
97) n-Butylbenzene	11.98	91	39709	11.0490	ppb	# 92
98) 1,2-DCB	11.95	146	36255	10.1394	ppb	96
99) Hexachloroethane	12.23	201	15500	13.7349	ppb	93
100) 1,2-Dibromo-3-chloropropan	12.79	75	3010	11.1715	ppb	89
101) 1,2,4-Trichlorobenzene	13.69	180	18087	15.4960	ppb	87
102) Hexachlorobutadiene	13.90	223	5976	18.6118	ppb	# 69
103) Naphthalene	13.94	128	24483	14.6497	ppb	93
104) 1,2,3-Trichlorobenzene	14.20	182	8580	12.8735	ppb	99

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

1030L20.D L1023W.M Tue Nov 19 11:00:43 2019

Quantitation Report

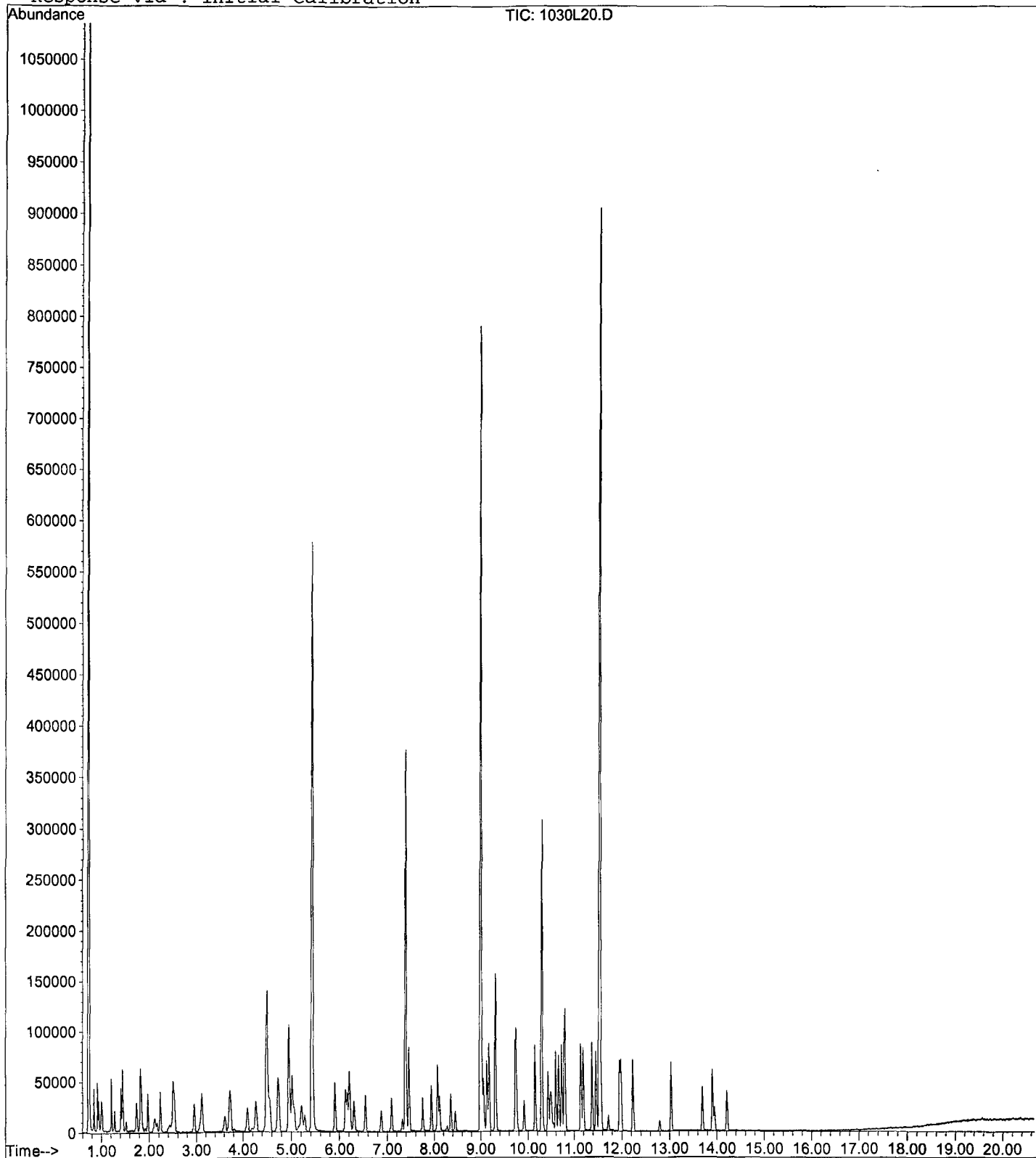
Data File : M:\LOKI\DATA\191023\1030L20.D
Acq On : 30 Oct 19 22:57
Sample : 191030 LCSD 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 20
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T17.D
 Acq On : 28 Oct 19 23:18
 Sample : 191028A LCSD 10ug/L
 Misc : IS&S 9/23/19

Vial: 17
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	147328	25.0000	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	137792	25.0000	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	80160	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	73007	25.7084	ppb	0.00
Spiked Amount 25.000			Recovery = 102.832%			
45) 1,2-DCA-D4(S)	6.18	65	79695	25.0632	ppb	0.00
Spiked Amount 25.000			Recovery = 100.252%			
66) Toluene-D8(S)	8.30	98	257311	25.0058	ppb	0.00
Spiked Amount 25.000			Recovery = 100.024%			
74) 4-Bromofluorobenzene(S)	10.92	174	104018	25.5343	ppb	0.00
Spiked Amount 25.000			Recovery = 102.136%			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.20	85	14281	10.4565	ppb	96
4) Freon 114	1.32	85	8402	14.1580	ppb	91
5) Chloromethane	1.36	50	11987	11.0960	ppb	99
6) Vinyl chloride	1.46	62	10486	10.4958	ppb	97
8) Bromomethane	1.75	96	7353	12.3774	ppb	92
9) Chloroethane	1.86	64	7943	11.1798	ppb	96
10) Dichlorofluoromethane	2.06	67	19578	10.7918	ppb	92
11) Trichlorofluoromethane	2.12	101	21069	11.3169	ppb	91
13) Acrolein	2.55	55	6055	107.3760	ppb	97
14) Acetone	2.73	43	3812	10.5077	ppb	96
15) Freon-113	2.69	101	9004	11.8092	ppb	93
16) 1,1-DCE	2.67	61	13858	10.5018	ppb	99
18) Acetonitrile	3.05	41	13747	114.6086	ppb	97
19) t-Butanol	3.52	59	10391	106.2627	ppb	97
20) Methyl Acetate	3.18	43	6566	9.8558	ppb	# 85
21) Iodomethane	2.82	142	6163	9.2909	ppb	98
22) Acrylonitrile	3.61	53	3133	9.2841	ppb	81
23) Methylene chloride	3.27	49	13720	11.6283	ppb	96
24) Carbon disulfide	2.89	76	27904	12.3531	ppb	97
25) Methyl t-butyl ether (MtBE)	3.72	73	28615	9.6450	ppb	94
26) Trans-1,2-DCE	3.67	61	14357	11.1230	ppb	98
28) Diisopropyl Ether	4.54	45	10107	9.0120	ppb	97
30) 1,1-DCA	4.32	63	7604	10.3833	ppb	93
31) Vinyl Acetate	4.54	87	8925	10.1209	ppb	91
32) Ethyl tert Butyl Ether	5.05	59	29612	9.8098	ppb	# 94
33) MEK (2-Butanone)	5.22	43	3648	9.5056	ppb	99
34) Cis-1,2-DCE	5.16	61	16416	10.5034	ppb	99
35) 2,2-Dichloropropane	5.15	77	6626	10.6623	ppb	97
38) Chloroform	5.59	83	10769	10.5116	ppb	99
39) Bromochloromethane	5.46	130	4744	10.7890	ppb	92
41) 1,1,1-TCA	5.80	97	9123	10.6588	ppb	92
42) Cyclohexane	5.88	84	12297	10.4288	ppb	87
43) 1,1-Dichloropropene	6.02	75	13249	10.2907	ppb	98
44) 2,2,4-Trimethylpentane	6.41	57	8957	10.0023	ppb	96
46) Carbon Tetrachloride	6.01	119	16386	10.7541	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	28258	9.2130	ppb	99
49) 1,2-DCA	6.26	62	8850	9.9877	ppb	95
50) Benzene	6.25	78	41609	9.9256	ppb	97
51) TCE	7.00	130	12844	9.8756	ppb	91

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

Data File : M:\THOR\DATA\T191028\1028T17.D
 Acq On : 28 Oct 19 23:18
 Sample : 191028A LCSD 10ug/L
 Misc : IS&S 9/23/19

Vial: 17
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.22	43	70823	108.1107	ppb	97
53) 1,2-Dichloropropane	7.23	63	10763	10.1020	ppb	99
54) Bromodichloromethane	7.53	83	16367	10.0324	ppb #	96
55) Methyl Cyclohexane	7.22	83	13171	10.1389	ppb	97
56) Dibromomethane	7.35	174	9764	10.3896	ppb	94
57) MIBK (methyl isobutyl ket	9.05	43	2581	7.7581	ppb	98
58) 1-Bromo-2-chloroethane	7.85	63	13805	10.0544	ppb	97
60) Cis-1,3-Dichloropropene	8.02	75	17023	9.9777	ppb	96
61) Toluene	8.36	91	47638	10.0245	ppb	95
62) Trans-1,3-Dichloropropene	8.59	75	9891	9.2745	ppb	97
63) 1,1,2-TCA	8.76	97	10685	10.0274	ppb	93
64) 2-Hexanone	8.20	43	3896	7.9234	ppb #	86
67) 1,2-EDB	9.26	107	6728	10.1965	ppb #	78
68) Tetrachloroethene	8.92	166	14881	11.4007	ppb	97
69) 1-Chlorohexane	9.77	91	11628	9.6902	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	13861	10.3968	ppb	93
71) m&p-Xylene	10.02	91	80377	20.1407	ppb	98
72) o-Xylene	10.40	91	42227	9.9002	ppb	95
73) Styrene	10.42	104	29169	9.6403	ppb	94
75) 1,3-Dichloropropane	8.93	76	16697	9.7149	ppb	95
76) Dibromochloromethane	9.15	129	12901	9.6514	ppb	93
77) Chlorobenzene	9.77	112	20312	9.9969	ppb	97
78) Ethylbenzene	9.89	91	48759	9.7900	ppb	98
79) Bromoform	10.57	173	10369	9.6319	ppb	96
81) Isopropylbenzene	10.78	105	48844	9.9169	ppb	99
82) 1,1,2,2-Tetrachloroethane	11.05	83	11987	9.2596	ppb	97
83) 1,2,3-Trichloropropane	11.09	110	4474	10.1861	ppb	94
84) t-1,4-Dichloro-2-Butene	11.12	53	2360	8.9720	ppb	97
85) Bromobenzene	11.06	77	12176	9.4889	ppb	86
86) n-Propylbenzene	11.19	91	53736	9.8171	ppb	98
87) 4-Ethyltoluene	11.31	105	46280	9.8530	ppb	98
88) 2-Chlorotoluene	11.26	91	22507	9.9179	ppb	96
89) 1,3,5-Trimethylbenzene	11.37	105	42212	10.1088	ppb	100
90) 4-Chlorotoluene	11.37	91	26200	10.1450	ppb	99
91) Tert-Butylbenzene	11.69	119	41817	11.0964	ppb	97
92) 1,2,4-Trimethylbenzene	11.74	105	40165	9.3794	ppb	98
93) Sec-Butylbenzene	11.91	105	47795	9.7856	ppb	98
94) p-Isopropyltoluene	12.06	119	42832	9.9861	ppb	98
95) Benzyl Chloride	12.22	91	7670	7.6573	ppb	99
96) 1,3-DCB	12.00	146	18232	9.7700	ppb	92
97) 1,4-DCB	12.09	146	27224	9.6330	ppb	100
98) n-Butylbenzene	12.46	91	32175	9.8718	ppb	98
99) 1,2-DCB	12.45	146	16752	9.8666	ppb	97
100) Hexachloroethane	12.72	117	5839	11.1919	ppb	95
101) 1,2-Dibromo-3-chloropropan	13.22	157	1770	9.5568	ppb	83
102) 1,2,4-Trichlorobenzene	14.06	182	10256	10.0686	ppb	91
103) Hexachlorobutadiene	14.26	225	6632	10.6347	ppb #	54
104) Naphthalene	14.30	128	26169	10.1606	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	14362	10.0407	ppb	83

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

1028T17.D T1023W.M Tue Nov 19 10:56:27 2019

Quantitation Report

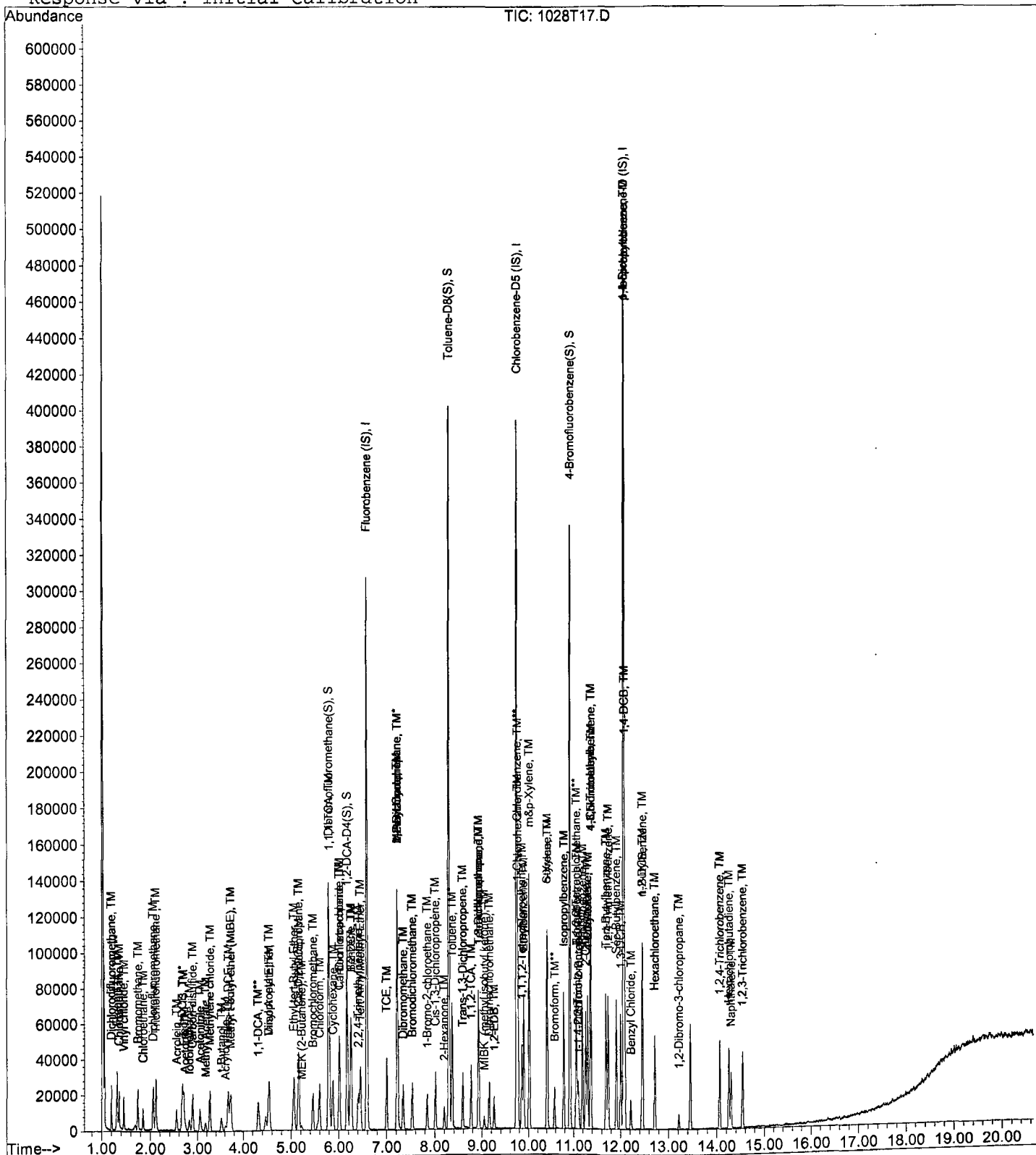
Data File : M:\THOR\DATA\T191028\1028T17.D
Acq On : 28 Oct 19 23:18
Sample : 191028A LCSD 10ug/L
Misc : IS&S 9/23/19

Vial: 17
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:17 2019

Quant Results File: T1023W.RES

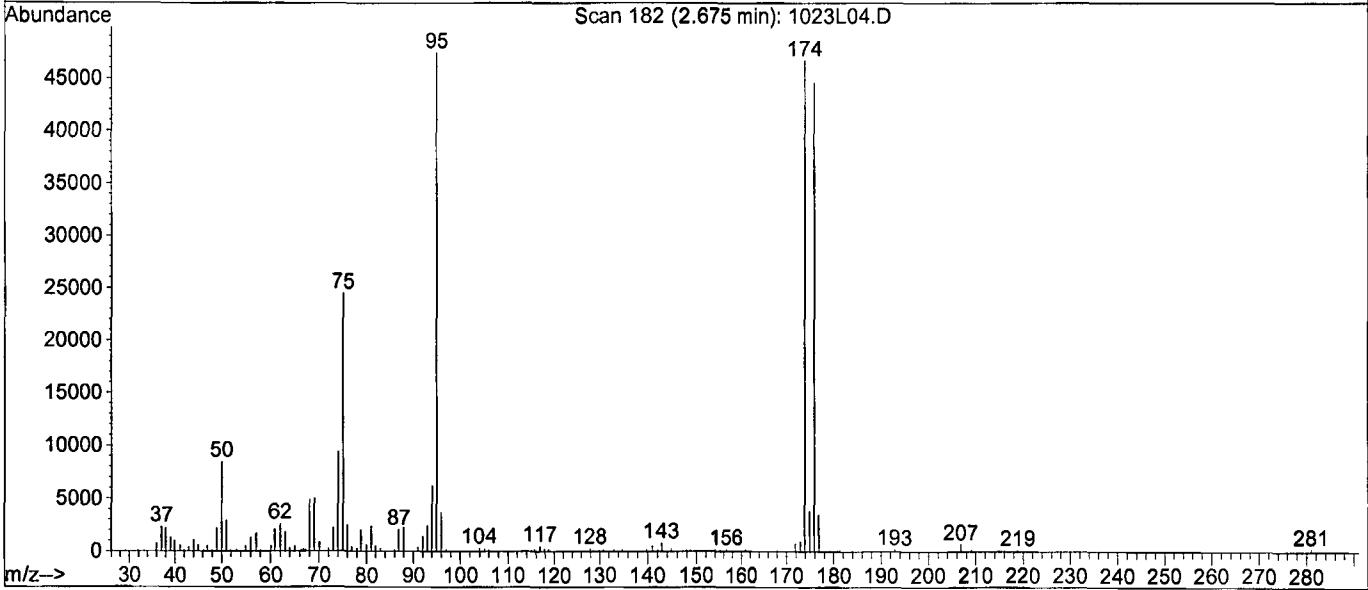
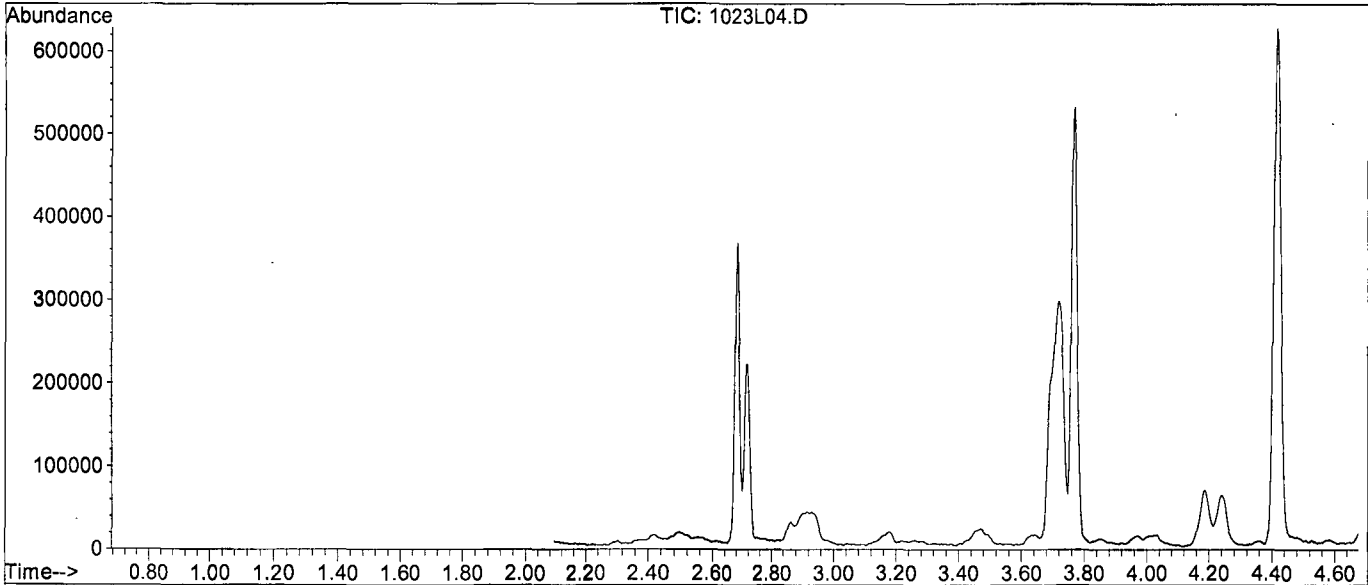
Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L04.D
 Acq On : 23 Oct 19 17:01
 Sample : 25ug/L BFB STD 8/11/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



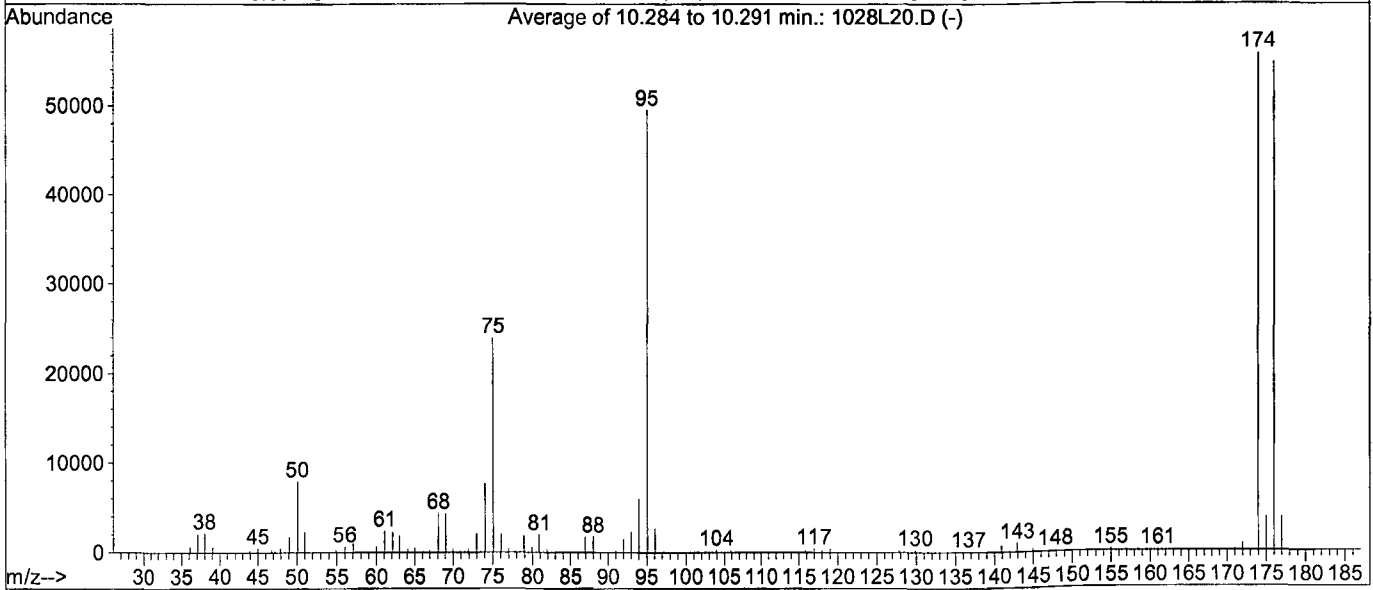
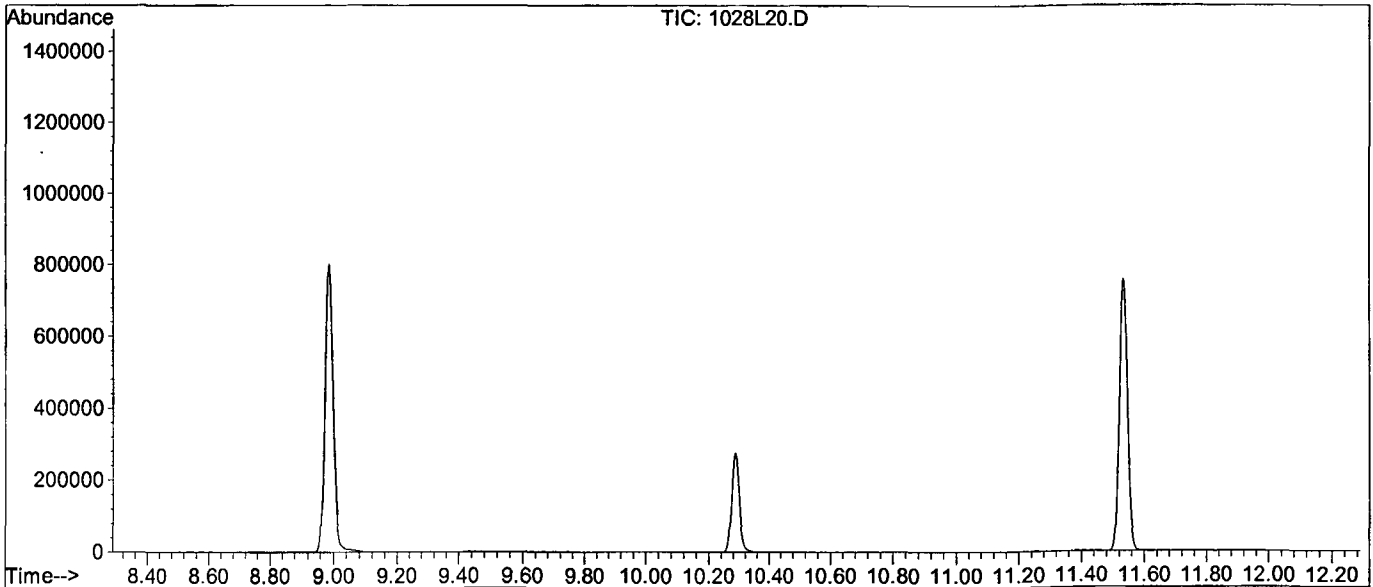
Spectrum Information: Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8472	PASS
75	95	30	60	51.6	24496	PASS
95	95	100	100	100.0	47432	PASS
96	95	5	9	7.8	3715	PASS
173	174	0.00	2	1.9	909	PASS
174	95	50	200	98.4	46696	PASS
175	174	5	9	8.2	3836	PASS
176	174	95	101	95.4	44536	PASS
177	176	5	9	7.9	3519	PASS

Data File : M:\LOKI\DATA\191023\1028L20.D
 Acq On : 28 Oct 19 19:11
 Sample : 25ug/L BFB STD 10/10/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



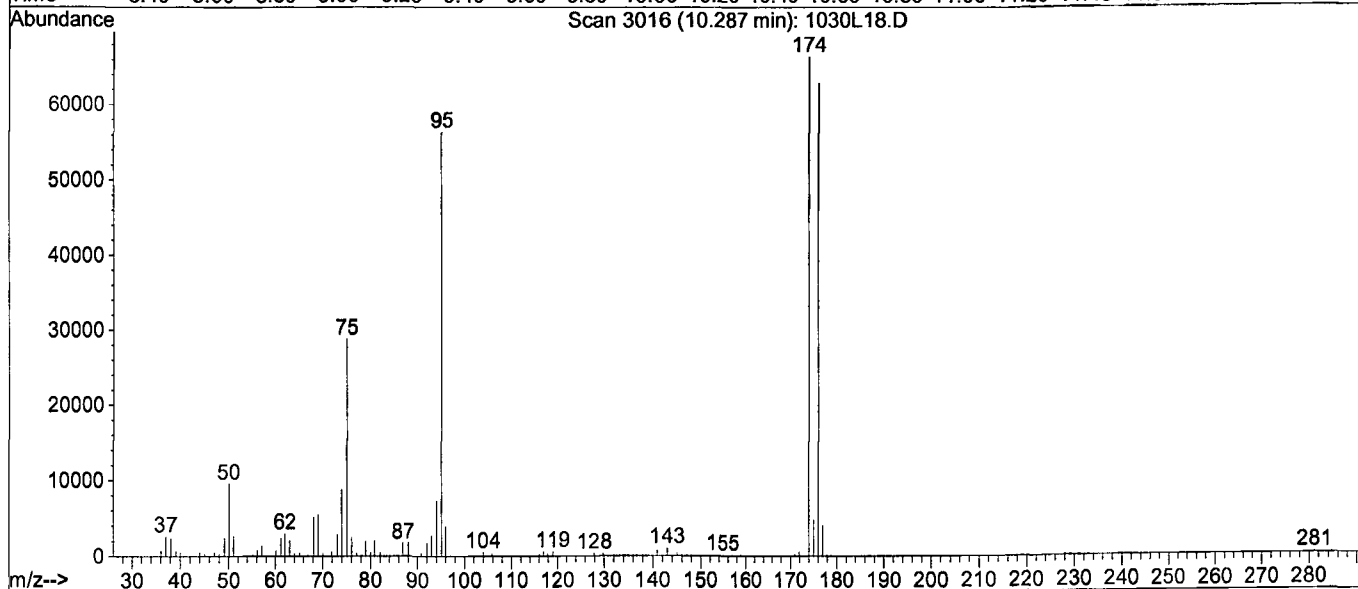
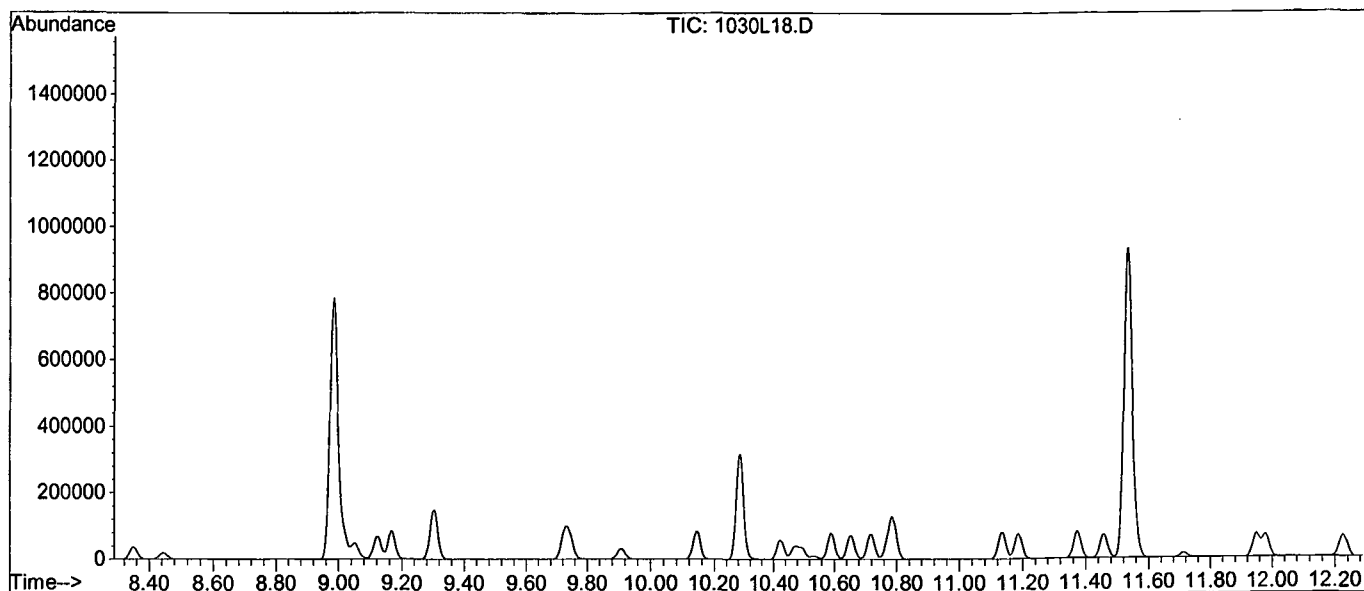
AutoFind: Scans 3015, 3016, 3017; Background Corrected with Scan 3001

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	7904	PASS
75	95	30	60	48.3	23893	PASS
95	95	100	100	100.0	49480	PASS
96	95	5	9	5.3	2646	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	112.8	55795	PASS
175	174	5	9	6.7	3722	PASS
176	174	95	101	98.2	54776	PASS
177	176	5	9	6.7	3686	PASS

Data File : M:\LOKI\DATA\191023\1030L18.D
 Acq On : 30 Oct 19 22:00
 Sample : 191030 CCV 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



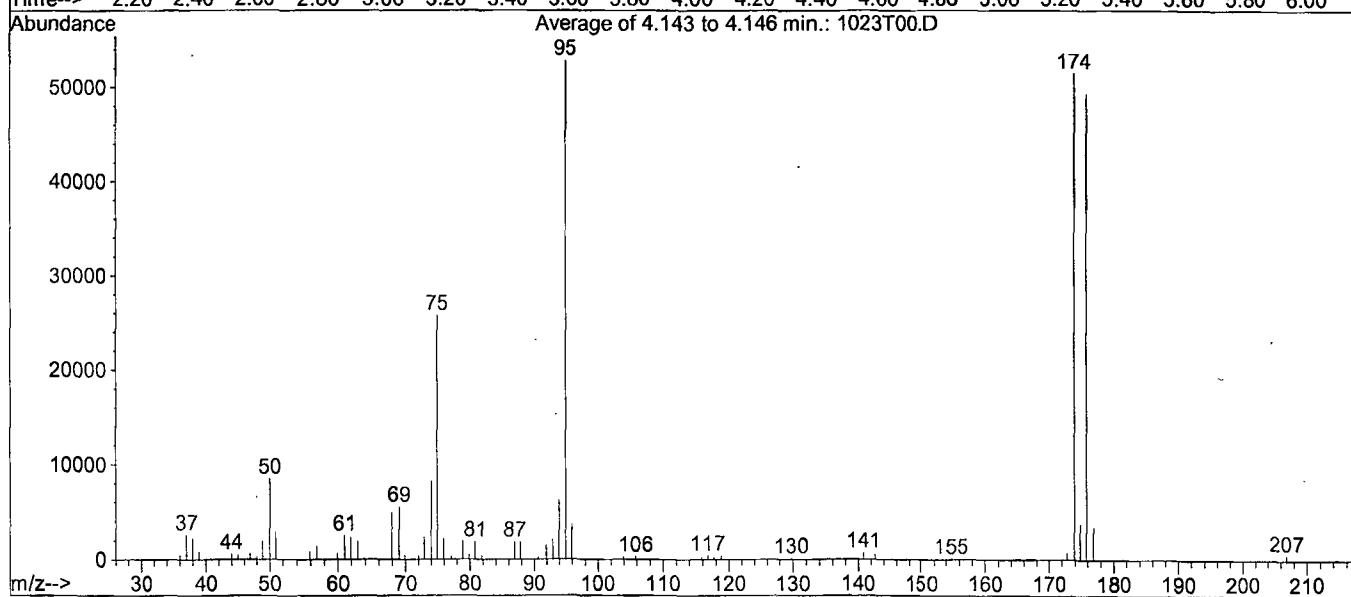
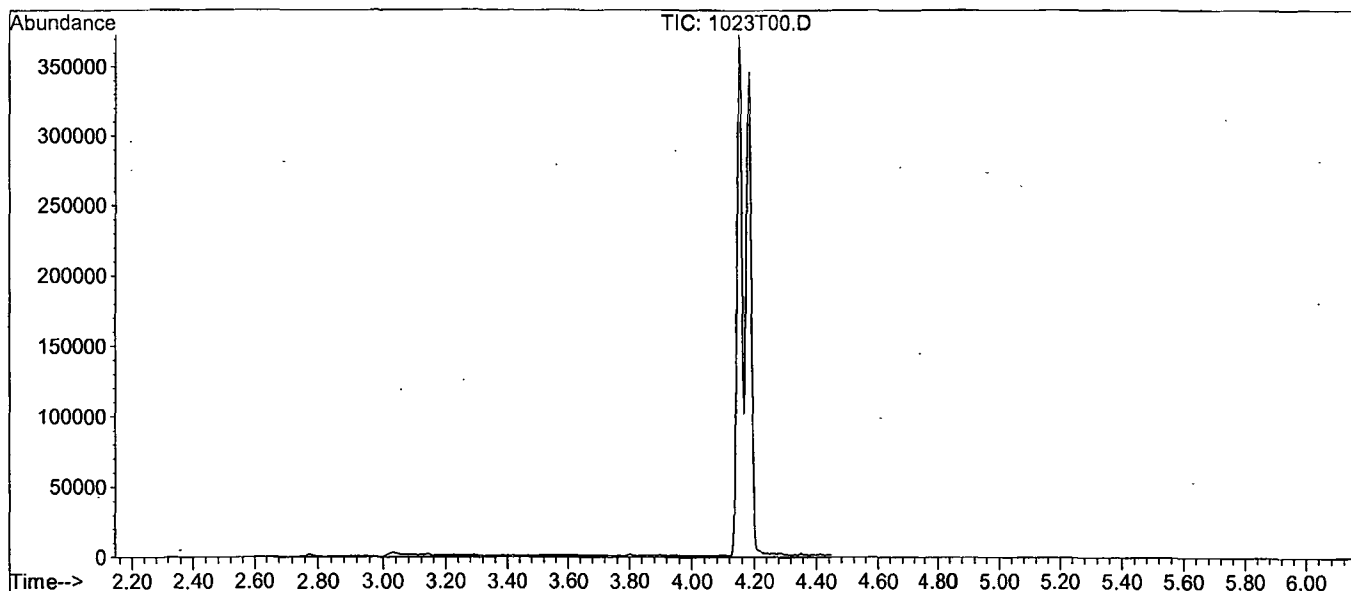
Spectrum Information: Scan 3016

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	9564	PASS
75	95	30	60	51.0	28752	PASS
95	95	100	100	100.0	56336	PASS
96	95	5	9	7.0	3937	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	117.8	66368	PASS
175	174	5	9	7.2	4764	PASS
176	174	95	101	94.6	62816	PASS
177	176	5	9	6.3	3984	PASS

Data File : M:\THOR\DATA\T191023\1023T00.D
 Acq On : 23 Oct 19 16:48
 Sample : 25ug/L BFBSTD 10/10/19
 Misc : 2ul BFB

Vial: 1
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B



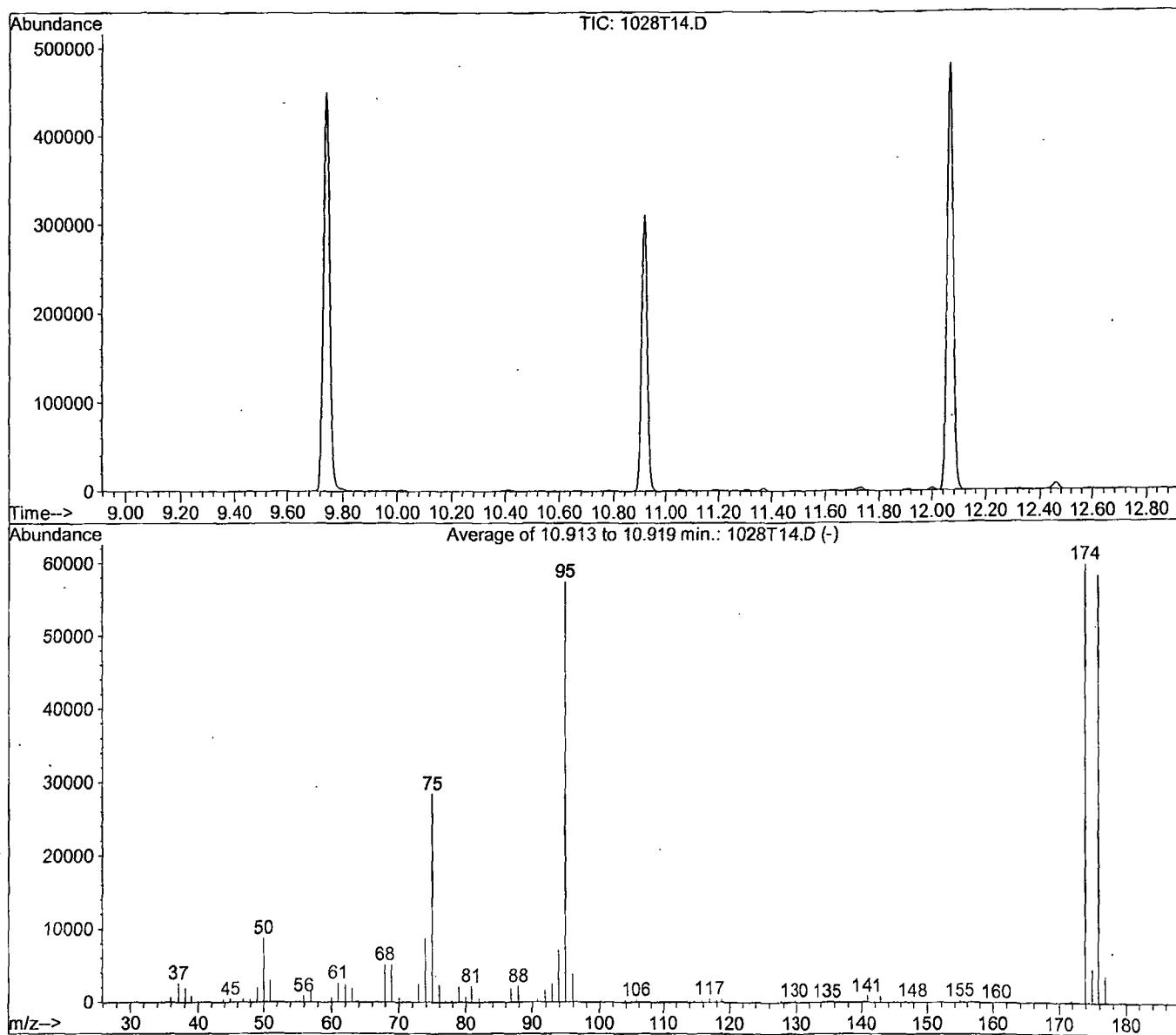
Spectrum Information: Average of 4.143 to 4.146 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	8507	PASS
75	95	30	60	48.8	25764	PASS
95	95	100	100	100.0	52848	PASS
96	95	5	9	7.0	3705	PASS
173	174	0.00	2	1.5	760	PASS
174	95	50	200	97.4	51468	PASS
175	174	5	9	7.4	3817	PASS
176	174	95	101	95.9	49368	PASS
177	176	5	9	7.0	3443	PASS

Data File : M:\THOR\DATA\T191028\1028t14.D
 Acq On : 28 Oct 19 21:53
 Sample : 25ug/L BFBSTD 9/24/19
 Misc : IS&S 9/23/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B



Spectrum Information: Average of 10.913 to 10.919 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	8734	PASS
75	95	30	60	49.4	28405	PASS
95	95	100	100	100.0	57480	PASS
96	95	5	9	6.7	3869	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	103.7	59581	PASS
175	174	5	9	7.7	4602	PASS
176	174	95	101	97.4	58043	PASS
177	176	5	9	6.2	3625	PASS

Injection Log

Directory: M:\LOK\DATA\191023\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1023L04.D	1	25ug/L BFB STD 8/11/19	IS&S:10/7/19, 10/23/19	23 Oct 19 17:01
2	6	1023L10.D	1	0.3ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:30
3	7	1023L11.D	1	0.5ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:59
4	8	1023L12.D	1	1.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:27
5	9	1023L13.D	1	2.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:56
6	10	1023L14.D	1	5.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:24
7	11	1023L15.D	1	10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:53
8	12	1023L16.D	1	20ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:21
9	13	1023L17.D	1	40ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:50
10	14	1023L18.D	1	100ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 23:18
11	16	1023L20.D	1	(SS)10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	24 Oct 19 00:15
12	20	1028L20.D	1	25ug/L BFB STD 10/10/19	IS&S:10/7/19, 10/23/19	28 Oct 19 19:11
13	21	1028L21.D	1	191028B CCV 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 19:39
14	22	1028L22.D	1	191028B LCS 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 20:08
15	23	1028L23.D	1	191028B LCSD 10ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 20:36
16	27	1028L27.D	1	191028B BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 22:30
17	28	1028L28.D	1	BA01774W01	IS&S:10/7/19, 10/23/19	28 Oct 19 22:59
18	29	1028L29.D	1	BA01776W01	IS&S:10/7/19, 10/23/19	28 Oct 19 23:27
19	30	1028L30.D	1	BA01778W01	IS&S:10/7/19, 10/23/19	28 Oct 19 23:55
20	31	1028L31.D	1	BA01783W01	IS&S:10/7/19, 10/23/19	29 Oct 19 00:24
21	41	1028L41.D	1	BA01781W01	IS&S:10/7/19, 10/23/19	29 Oct 19 5:08
22	42	1028L42.D	1	BA01782W01	IS&S:10/7/19, 10/23/19	29 Oct 19 5:36
23	43	1028L43.D	1	BA01784W01	IS&S:10/7/19, 10/23/19	29 Oct 19 6:05
24	44	1028L44.D	1	BA01775W01	IS&S:10/7/19, 10/23/19	29 Oct 19 6:33
25	45	1028L45.D	1	Ending CCV 10ug/L 10/28/19	IS&S:10/7/19, 10/23/19	29 Oct 19 7:01
26	18	1030L18.D	1	191030 CCV/BFB 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:00
27	19	1030L19.D	1	191030 LCS 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:28
28	20	1030L20.D	1	191030 LCSD 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:57
29	24	1030L24.D	1	191030 BLK	IS&S:10/7/19, 10/23/19	31 Oct 19 00:50
30	27	1030L27.D	1	BA01777W03	IS&S:10/7/19, 10/23/19	31 Oct 19 2:15
31	42	1030L42.D	1	Ending CCV 10ug/L 10/29/19	IS&S:10/7/19, 10/23/19	31 Oct 19 9:21

Injection Log

Directory: M:\THOR\DATA\T191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1023T00.D	1	25ug/L BFBSTD 10/10/19	2ul BFB	23 Oct 19 16:48
6	1023T06.D	1	0.3ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 19:32
7	1023T07.D	1	0.5ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:01
8	1023T08.D	1	1.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:29
9	1023T09.D	1	2.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:58
10	1023T10.D	1	5.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:26
11	1023T11.D	1	10ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:55
12	1023T12.D	1	20ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:23
13	1023T13.D	1	40ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:52
14	1023T14.D	1	100ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 23:20
16	1023T16.D	1	(SS)10ug/L VOC STD 10/23/19	IS&S 9/23/19	24 Oct 19 00:17
14	1028T14.D	1	25ug/L BFBSTD 9/24/19	IS&S 9/23/19	28 Oct 19 21:53
16	1028T16.D	1	191028A CCV/LCS 10ug/L	IS&S 9/23/19	28 Oct 19 22:50
17	1028T17.D	1	191028A LCSD 10ug/L	IS&S 9/23/19	28 Oct 19 23:18
21	1028T21.D	1	191028A BLK	IS&S 9/23/19	29 Oct 19 1:11
34	1028T34.D	1	BA01779W01	IS&S 9/23/19	29 Oct 19 7:18
37	1028T37.D	1	Ending CCV 10ug/L 10/13/19	IS&S 9/23/19	29 Oct 19 8:43

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/24/19
Instrument: Thor

Initials: DP

1023T08.D 1023T07.D 1023T08.D 1023T09.D 1023T10.D 1023T11.D 1023T12.D 1023T13.D 1023T14.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.5385	0.5240	0.4368	0.4526	0.4712	0.4642	0.4850	0.4883	0.4565		0.48	6.8	S			
3	S 1,2-DCA-D4(S)	0.5868	0.5920	0.4819	0.5140	0.5350	0.5510	0.5468	0.5434	0.5053		0.54	6.7	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	2.143	2.042	1.649	1.690	1.820	1.965	1.778	1.900	1.815		1.9	8.7	S			
6	S 4-Bromofluorobenzene(S)	0.8756	0.7804	0.6244	0.6442	0.7197	0.7700	0.7173	0.7521	0.7682		0.74	10	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
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14																	
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35																	

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T191023\1023T06.D Vial: 6
 Acq On : 23 Oct 19 19:32 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	160768	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	91040	25.00	ppb	0.00

System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	19209	5.59	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.348%	
3) 1,2-DCA-D4(S)	6.18	65	20935	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.752%	
5) Toluene-D8(S)	8.30	98	68918	5.74	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.960%	
6) 4-Bromofluorobenzene(S)	10.92	174	28153	5.92	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.692%	

Target Compounds Qvalue

Quantitation Report

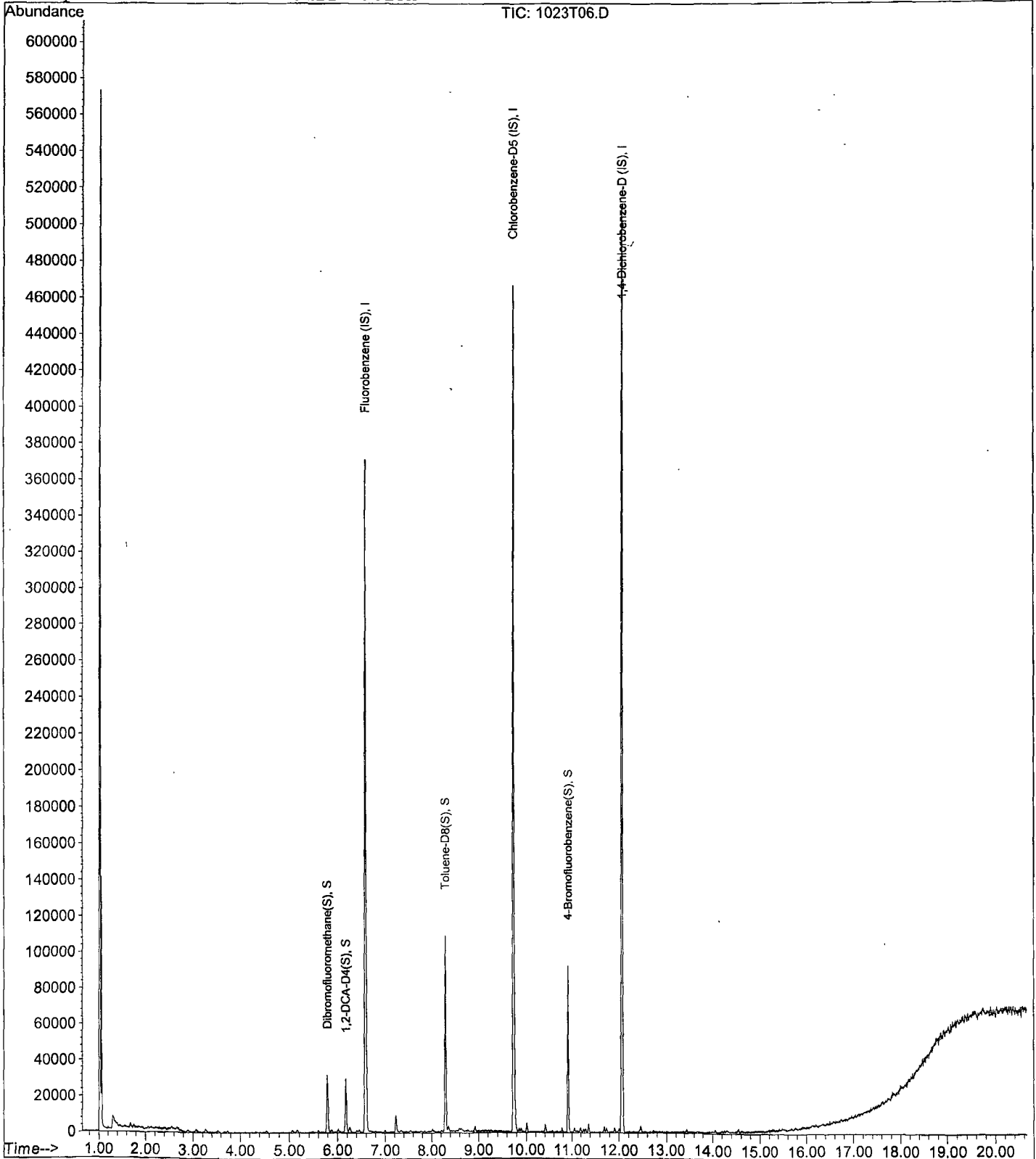
Data File : M:\THOR\DATA\T191023\1023T06.D
Acq On : 23 Oct 19 19:32
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T191023\1023T07.D Vial: 7
 Acq On : 23 Oct 19 20:01 Operator:
 Sample : 0.5ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177792	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	164416	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	92872	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	18632	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.748%	
3) 1,2-DCA-D4(S)	6.18	65	21049	5.49	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.940%	
5) Toluene-D8(S)	8.30	98	67127	5.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.868%	
6) 4-Bromofluorobenzene(S)	10.92	174	25663	5.28	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.120%	
Target Compounds						Qvalue

Quantitation Report

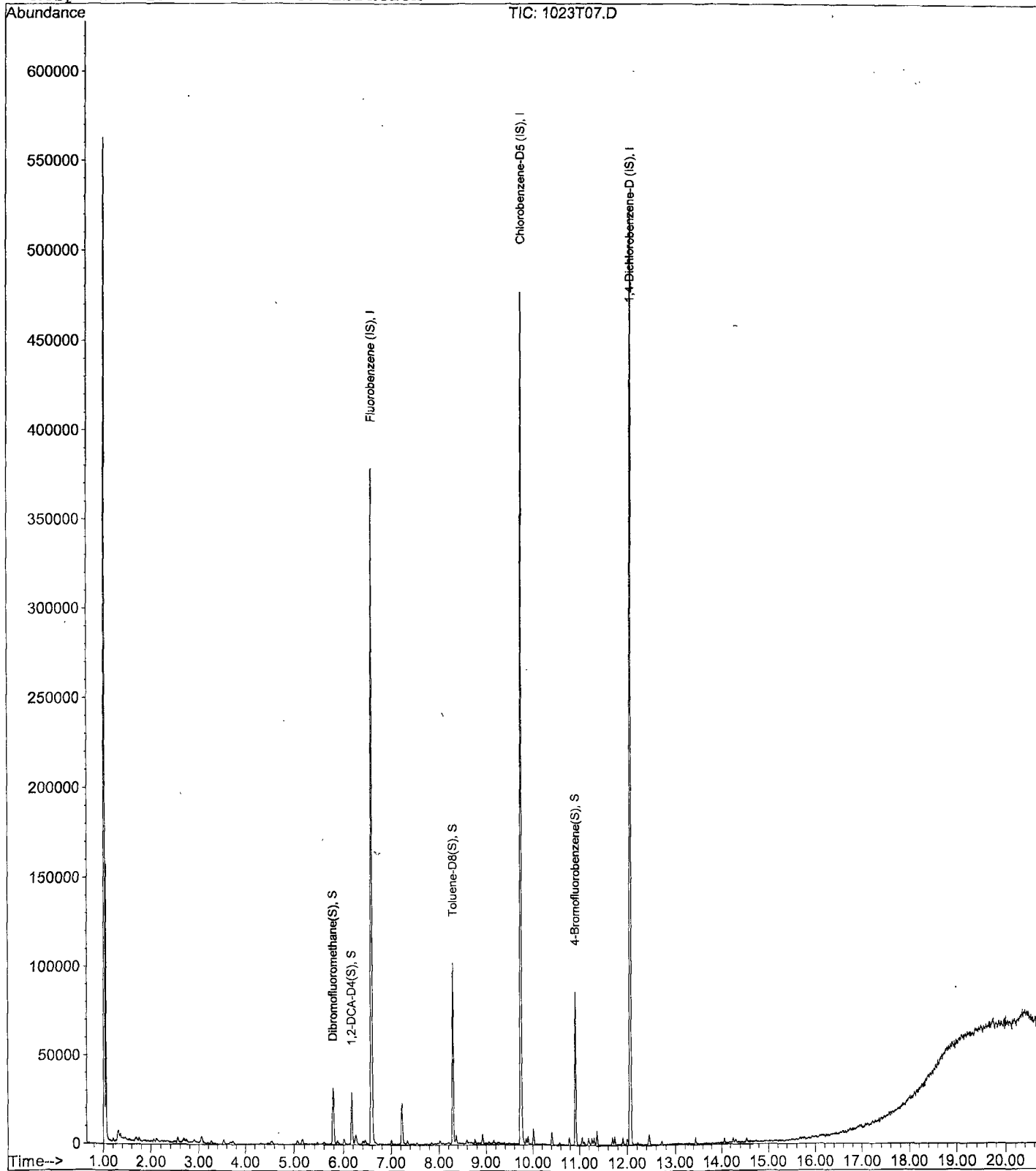
Data File : M:\THOR\DATA\T191023\1023T07.D
Acq On : 23 Oct 19 20:01
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T08.D Vial: 8
 Acq On : 23 Oct 19 20:29 Operator:
 Sample : 1.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	186048	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	170048	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	96952	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	32509	9.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.260%	
3) 1,2-DCA-D4 (S)	6.18	65	35862	8.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.724%	
5) Toluene-D8(S)	8.30	98	112166	8.83	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.332%	
6) 4-Bromofluorobenzene(S)	10.92	174	42473	8.45	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	

Target Compounds Qvalue

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

Quantitation Report

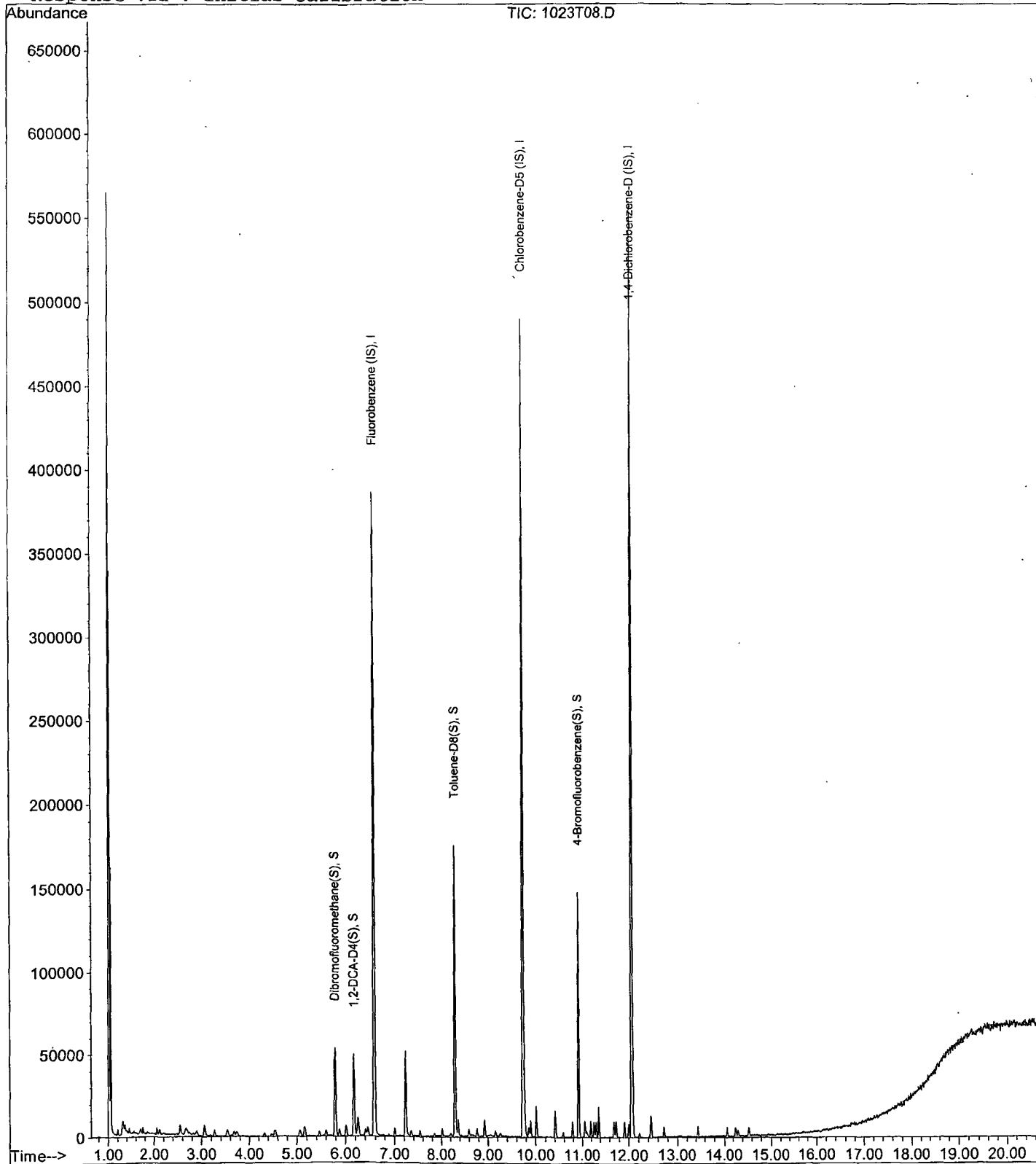
Data File : M:\THOR\DATA\T191023\1023T08.D
Acq On : 23 Oct 19 20:29
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T09.D Vial: 9
 Acq On : 23 Oct 19 20:58 Operator:
 Sample : 2.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	182336	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	173696	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	94992	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	33009	9.39	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.568%	
3) 1,2-DCA-D4(S)	6.18	65	37488	9.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.104%	
5) Toluene-D8(S)	8.30	98	117350	9.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.188%	
6) 4-Bromofluorobenzene(S)	10.92	174	44756	8.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.864%	

Target Compounds Qvalue

Quantitation Report

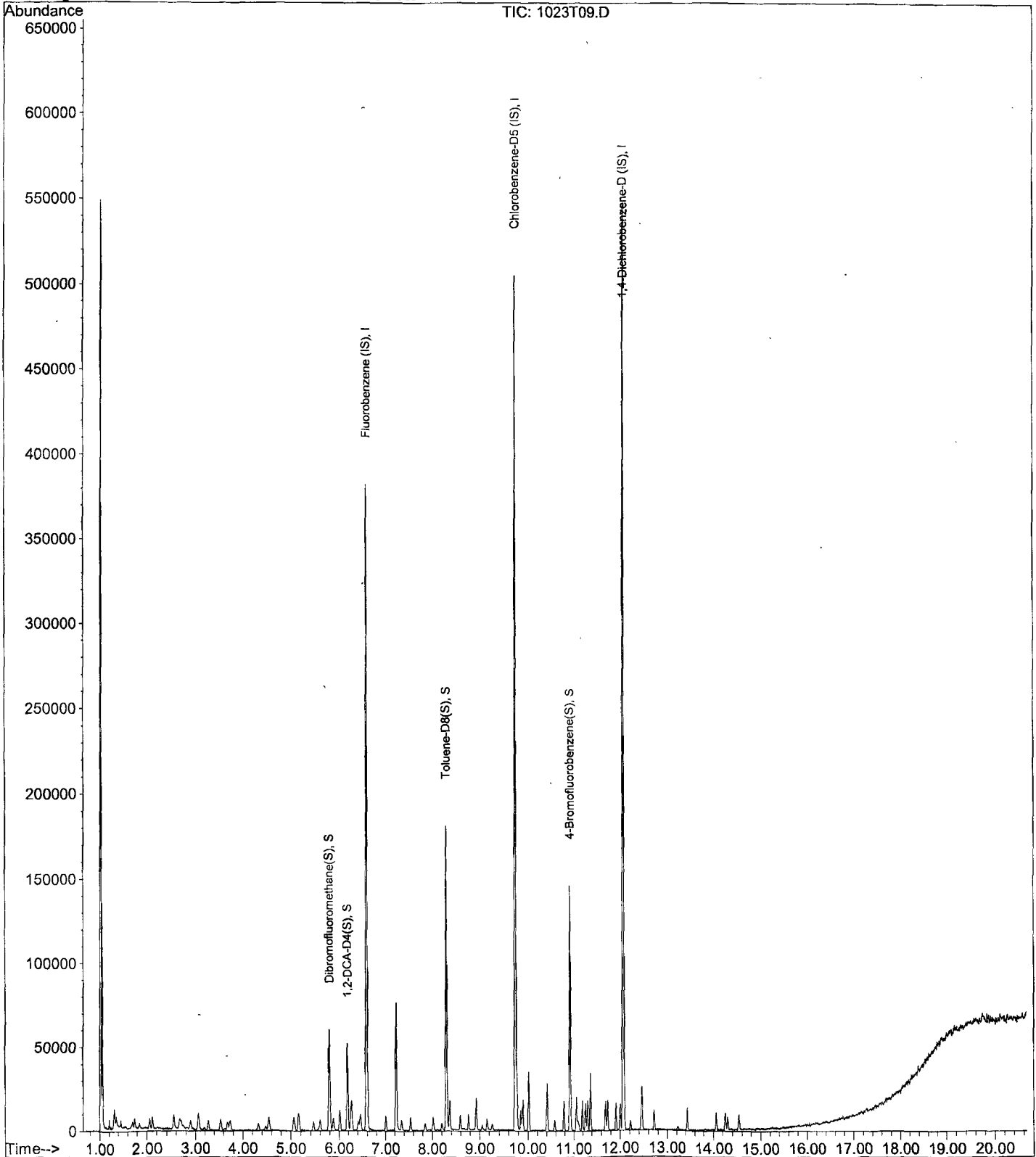
Data File : M:\THOR\DATA\T191023\1023T09.D
Acq On : 23 Oct 19 20:58
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T191023\1023T10.D Vial: 10
 Acq On : 23 Oct 19 21:26 Operator:
 Sample : 5.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	183104	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	171200	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	96128	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	86276	24.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.780%	
3) 1,2-DCA-D4(S)	6.18	65	97911	24.78	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.104%	
5) Toluene-D8(S)	8.30	98	311553	24.37	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.476%	
6) 4-Bromofluorobenzene(S)	10.92	174	123213	24.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.376%	

Target Compounds Qvalue

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

Quantitation Report

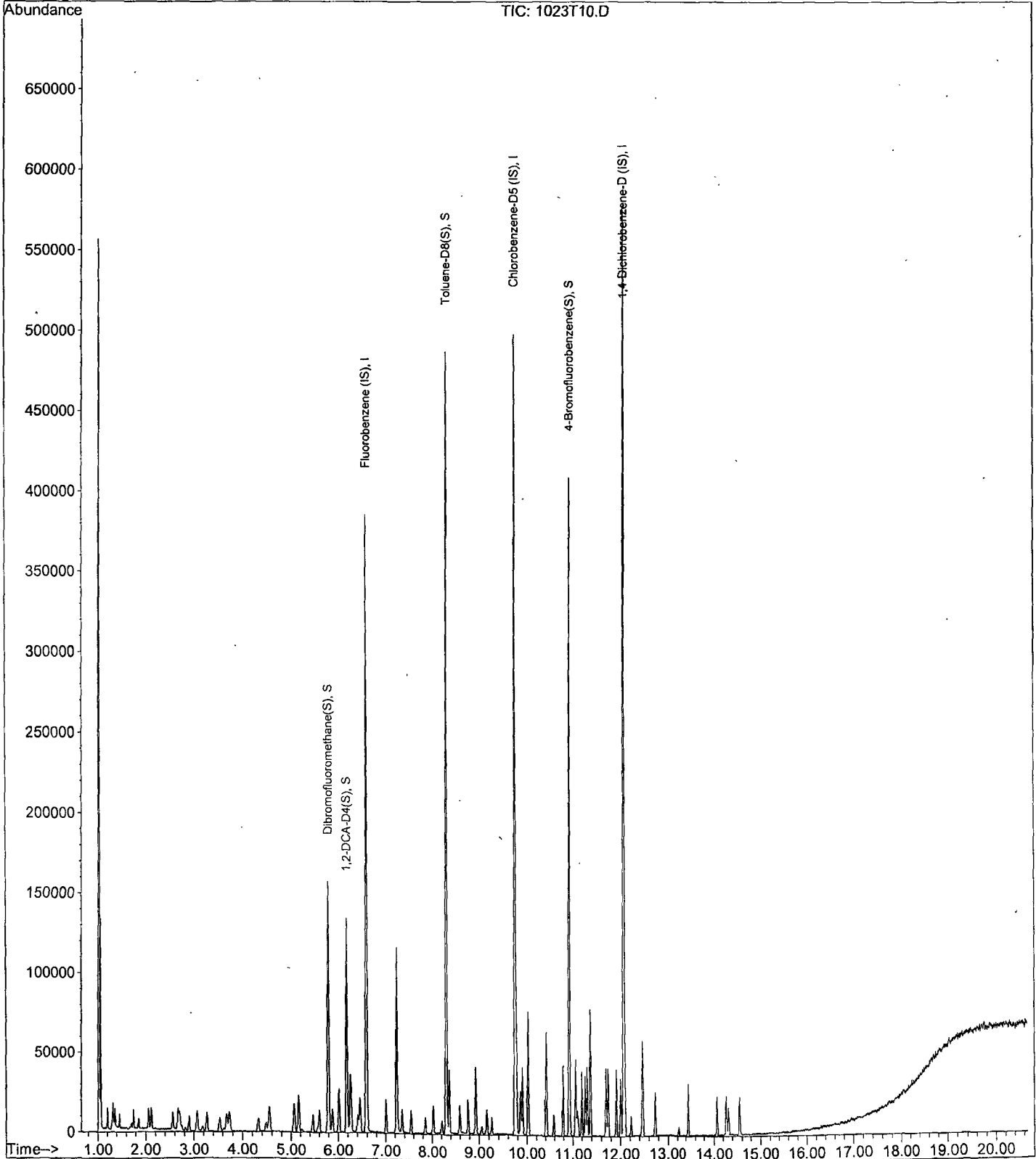
Data File : M:\THOR\DATA\T191023\1023T10.D
Acq On : 23 Oct 19 21:26
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T11.D Vial: 11
 Acq On : 23 Oct 19 21:55 Operator:
 Sample : 10ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178432	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	159872	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	97112	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	86393	25.12	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.476%	
3) 1,2-DCA-D4(S)	6.18	65	98312	25.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.112%	
5) Toluene-D8(S)	8.30	98	314020	26.30	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.208%	
6) 4-Bromofluorobenzene(S)	10.92	174	123099	26.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.180%	

Target Compounds Qvalue

Quantitation Report

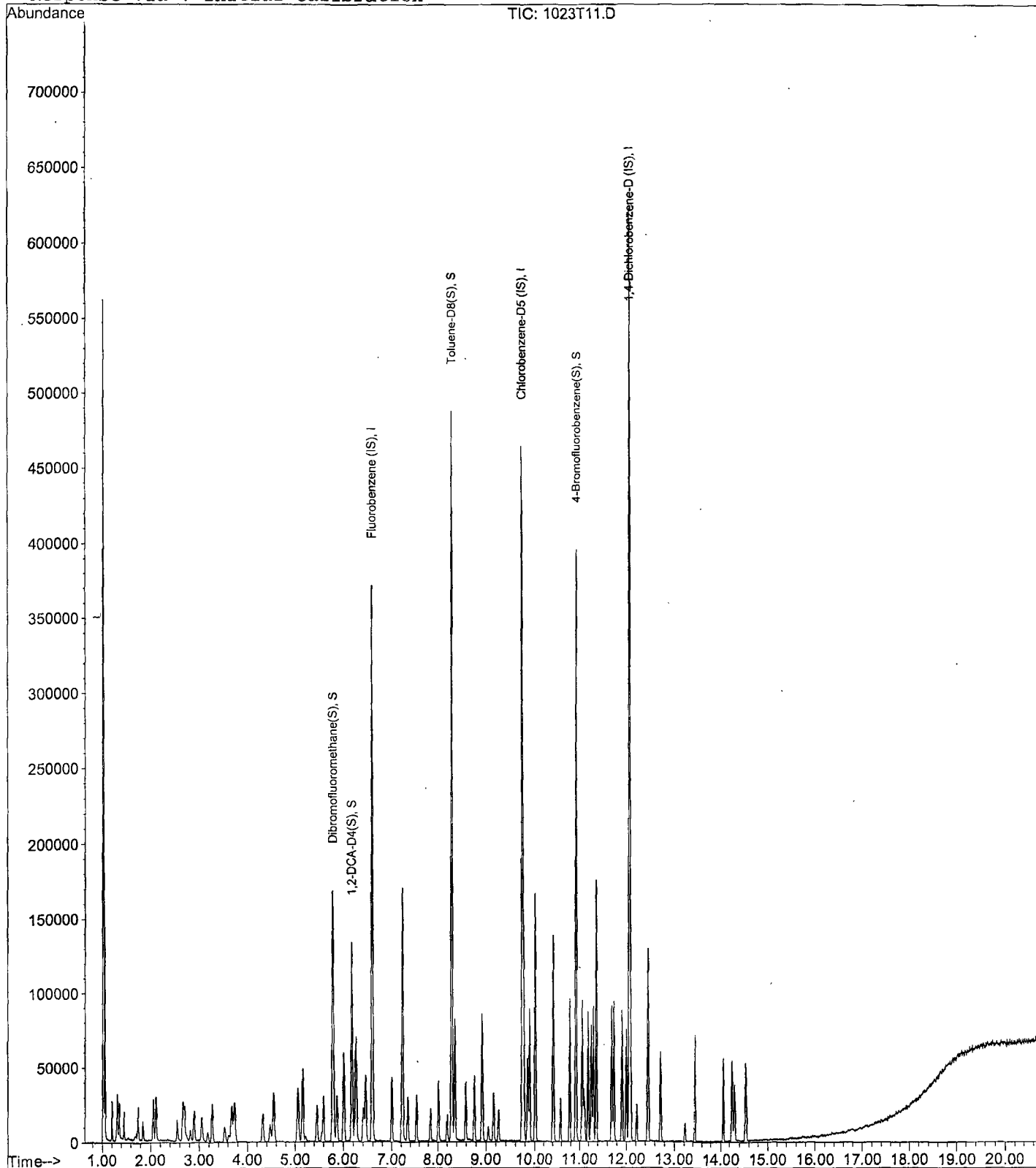
Data File : M:\THOR\DATA\T191023\1023T11.D
Acq On : 23 Oct 19 21:55
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T12.D Vial: 12
 Acq On : 23 Oct 19 22:23 Operator:
 Sample : 20ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	180864	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	175808	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	103912	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	175433	50.32	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.288%	
3) 1,2-DCA-D4(S)	6.18	65	197560	50.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.440%	
5) Toluene-D8(S)	8.30	98	624922	47.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.396%	
6) 4-Bromofluorobenzene(S)	10.92	174	252217	48.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	194.104%	

Target Compounds Qvalue

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

Quantitation Report

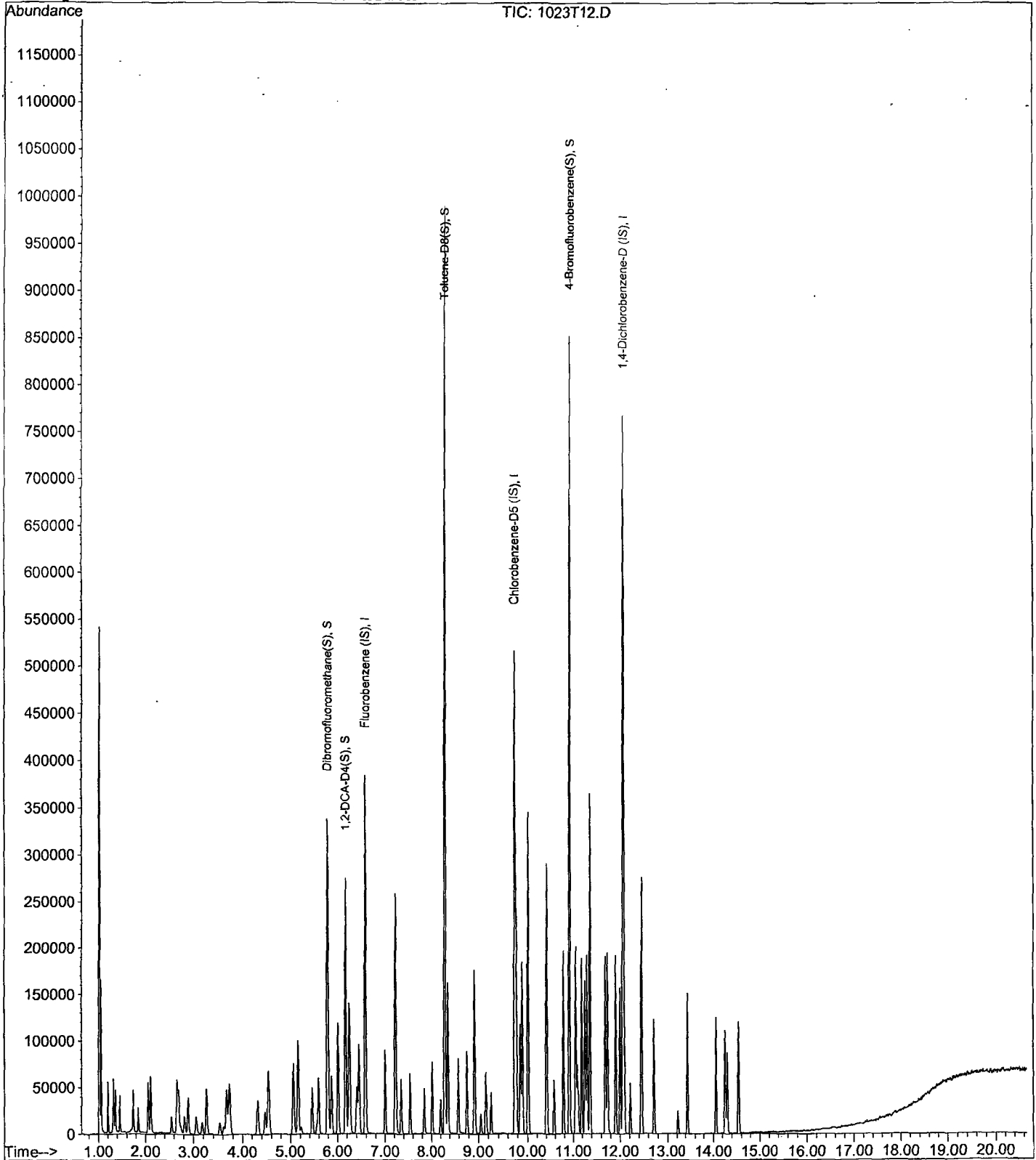
Data File : M:\THOR\DATA\T191023\1023T12.D
Acq On : 23 Oct 19 22:23
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T13.D Vial: 13
 Acq On : 23 Oct 19 22:52 Operator:
 Sample : 40ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	169472	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	101648	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	174185	50.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.652%	
3) 1,2-DCA-D4(S)	6.18	65	193525	50.27	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.080%	
5) Toluene-D8(S)	8.30	98	644008	50.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.544%	
6) 4-Bromofluorobenzene(S)	10.92	174	254916	50.88	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.516%	

Target Compounds Qvalue

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

Quantitation Report

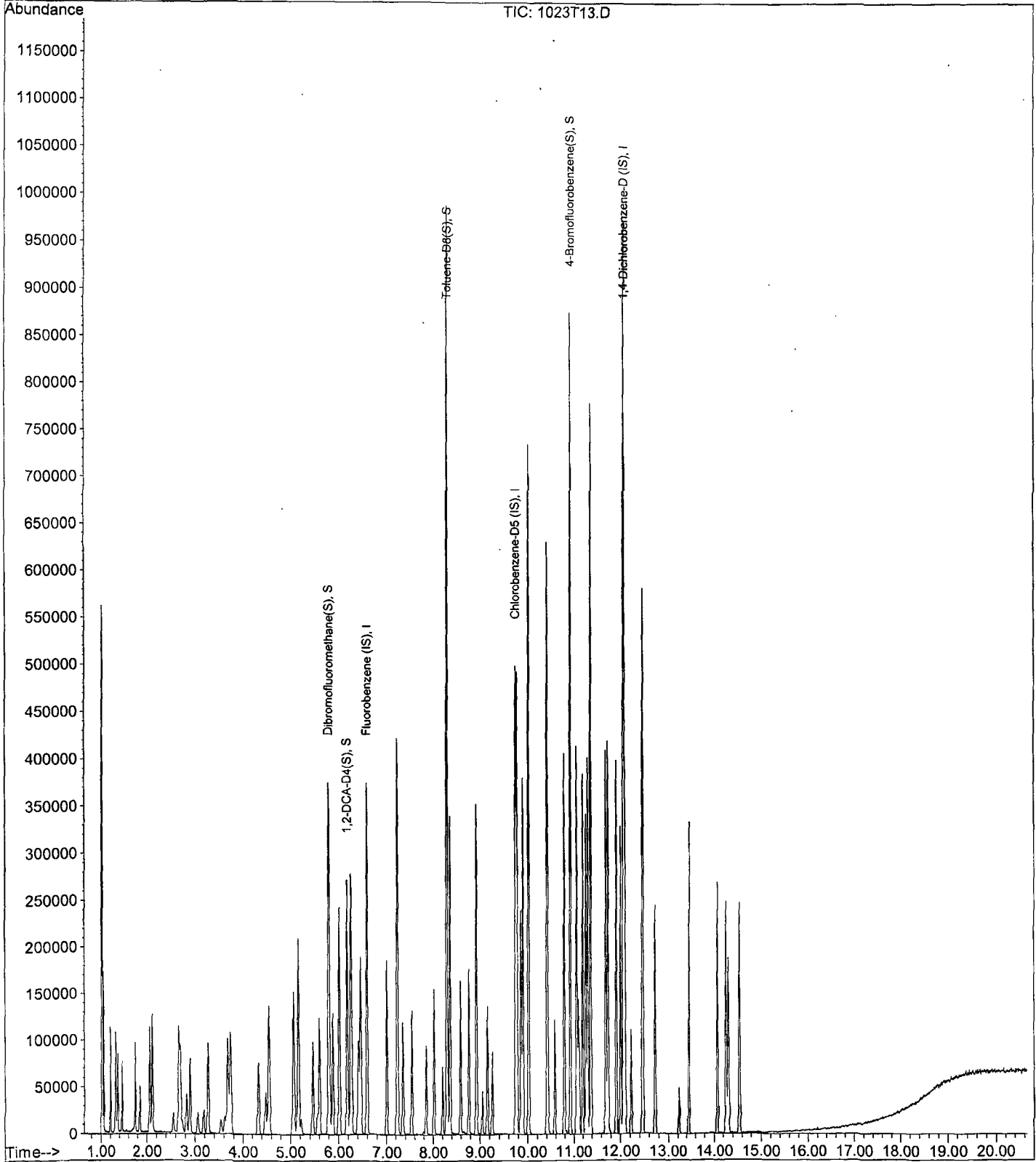
Data File : M:\THOR\DATA\T191023\1023T13.D
Acq On : 23 Oct 19 22:52
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T14.D Vial: 14
 Acq On : 23 Oct 19 23:20 Operator:
 Sample : 100ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 9:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177408	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	165184	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	110936	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	323935	94.73	ppb	0.00
Spiked Amount	25.000		Recovery	=	378.912%	
3) 1,2-DCA-D4(S)	6.18	65	358548	93.64	ppb	0.00
Spiked Amount	25.000		Recovery	=	374.564%	
5) Toluene-D8(S)	8.30	98	1198840	97.19	ppb	0.00
Spiked Amount	25.000		Recovery	=	388.740%	
6) 4-Bromofluorobenzene(S)	10.92	174	507561	103.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	415.736%	

Target Compounds Qvalue

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

Quantitation Report

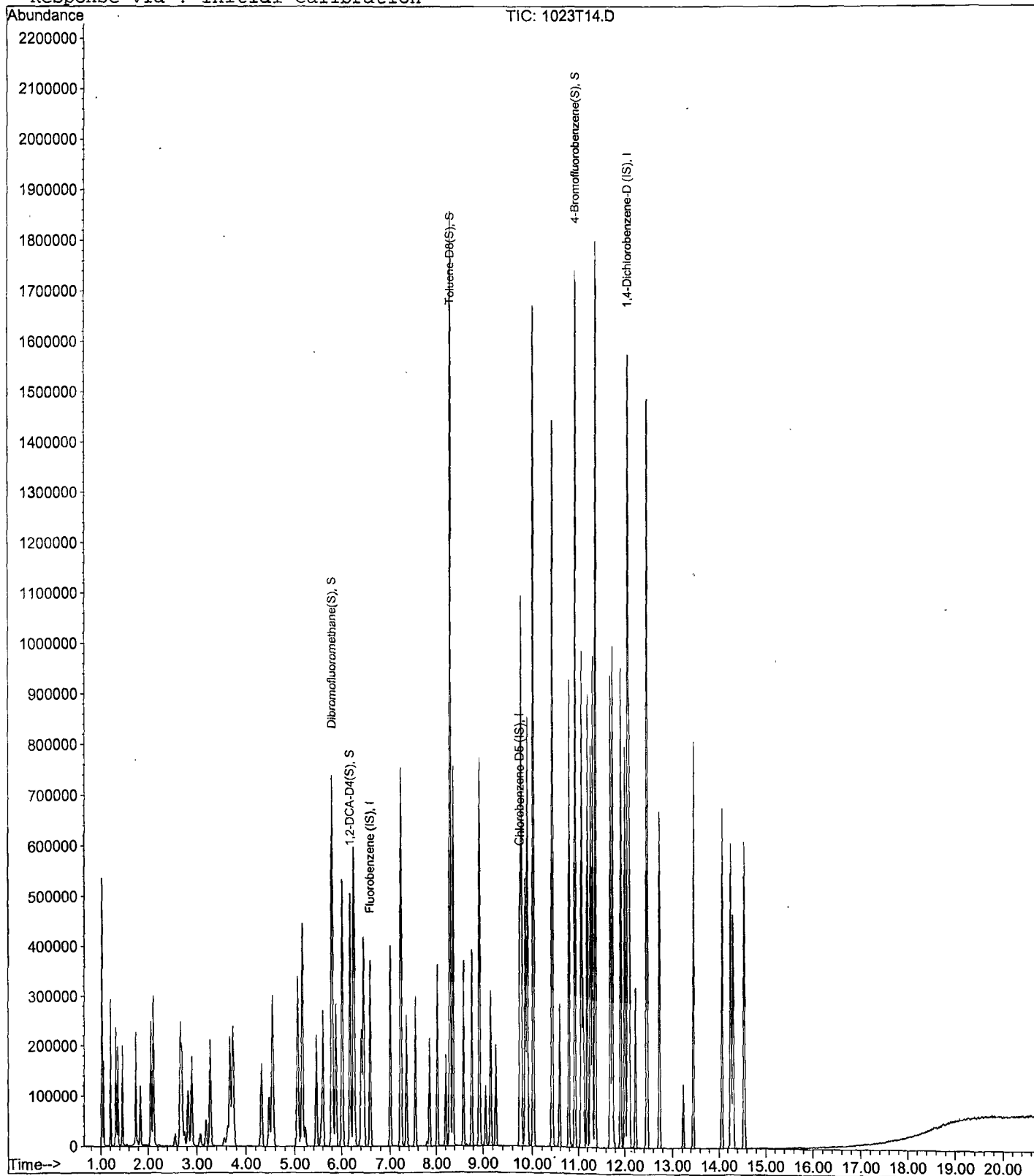
Data File : M:\THOR\DATA\T191023\1023T14.D
Acq On : 23 Oct 19 23:20
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19 _____
Instrument: Thor _____

Initials: _____

1026T02.D 1026T03.D 1026T04.D 1026T05.D 1026T06.D 1026T07.D 1026T08.D

	Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	TMHBL Gasoline C6-C10	12.7	5.185	2.689	1.053	0.7251	0.6177					3.8	122	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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34																	
35																	

Data File : M:\THOR\DATA\T191023\1026T02.D Vial: 2
 Acq On : 26 Oct 19 12:41 Operator:
 Sample : 20ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 10:27 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	325203	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	402502	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	430991	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3299042m	24.1543	ppb	100

Quantitation Report

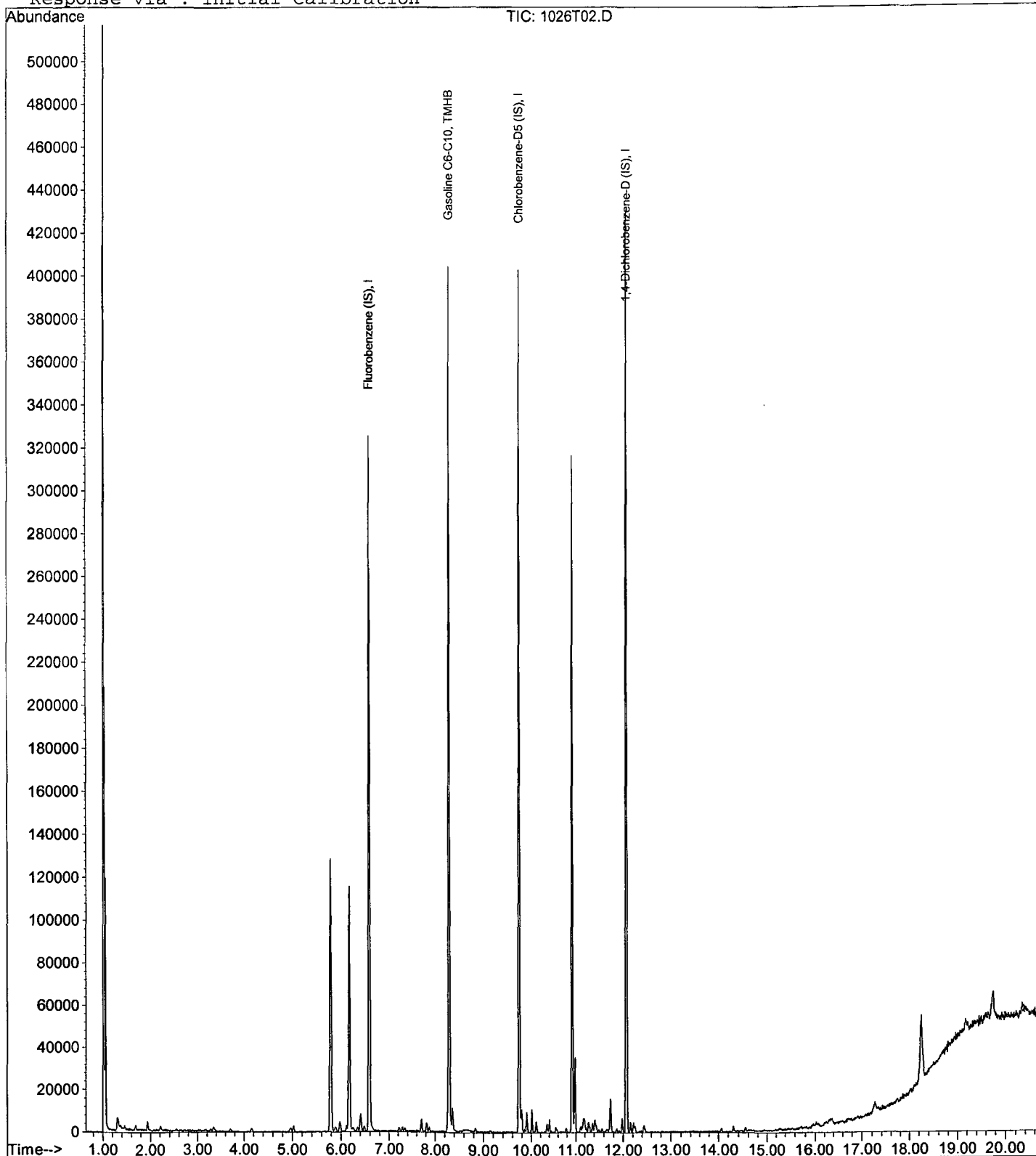
Data File : M:\THOR\DATA\T191023\1026T02.D
Acq On : 26 Oct 19 12:41
Sample : 20ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 2
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:27 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T03.D Vial: 3
 Acq On : 26 Oct 19 13:09 Operator:
 Sample : 50ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:17 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	321177	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392178	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	407724	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3330329m	43.7210	ppb	100

Quantitation Report

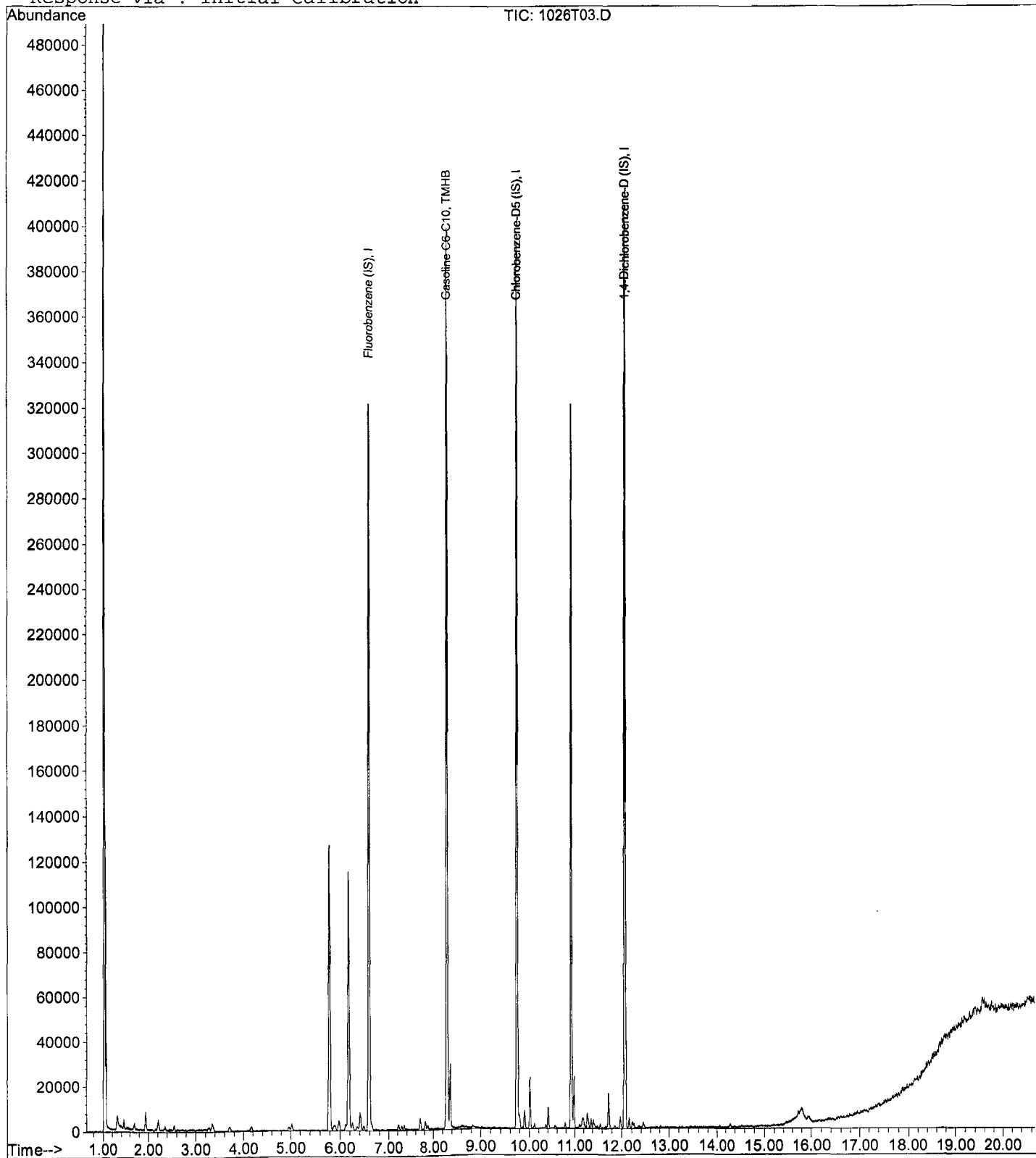
Data File : M:\THOR\DATA\T191023\1026T03.D
Acq On : 26 Oct 19 13:09
Sample : 50ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 3
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:17 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T04.D Vial: 4
 Acq On : 26 Oct 19 13:37 Operator:
 Sample : 100ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:21 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	324811	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392744	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	413459	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3493186m	77.2978	ppb	100

Quantitation Report

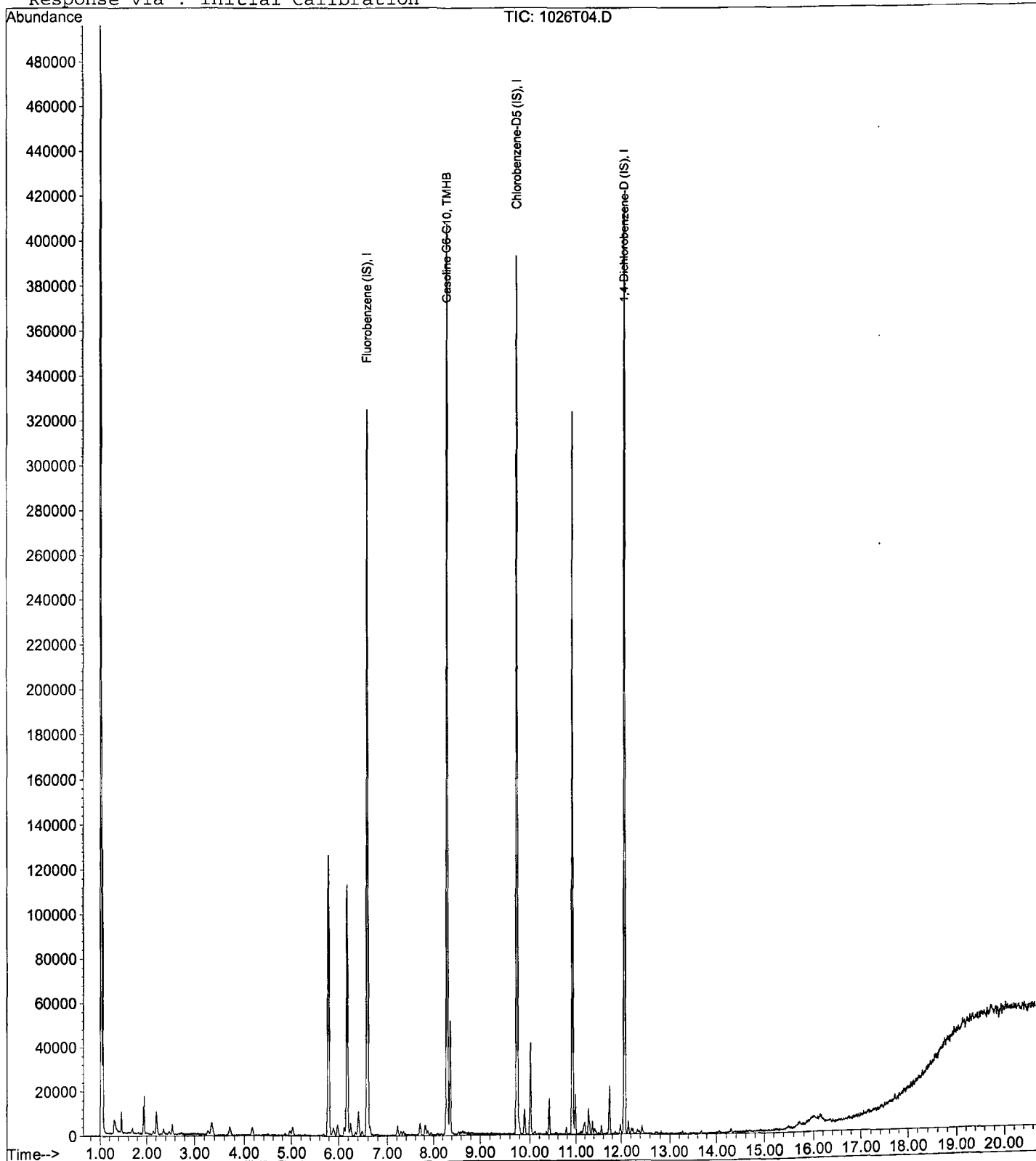
Data File : M:\THOR\DATA\T191023\1026T04.D
Acq On : 26 Oct 19 13:37
Sample : 100ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:21 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T05.D Vial: 5
 Acq On : 26 Oct 19 14:06 Operator:
 Sample : 300ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:14 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	338187	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	410094	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	434804	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4271474m	240.7466	ppb	100

Quantitation Report

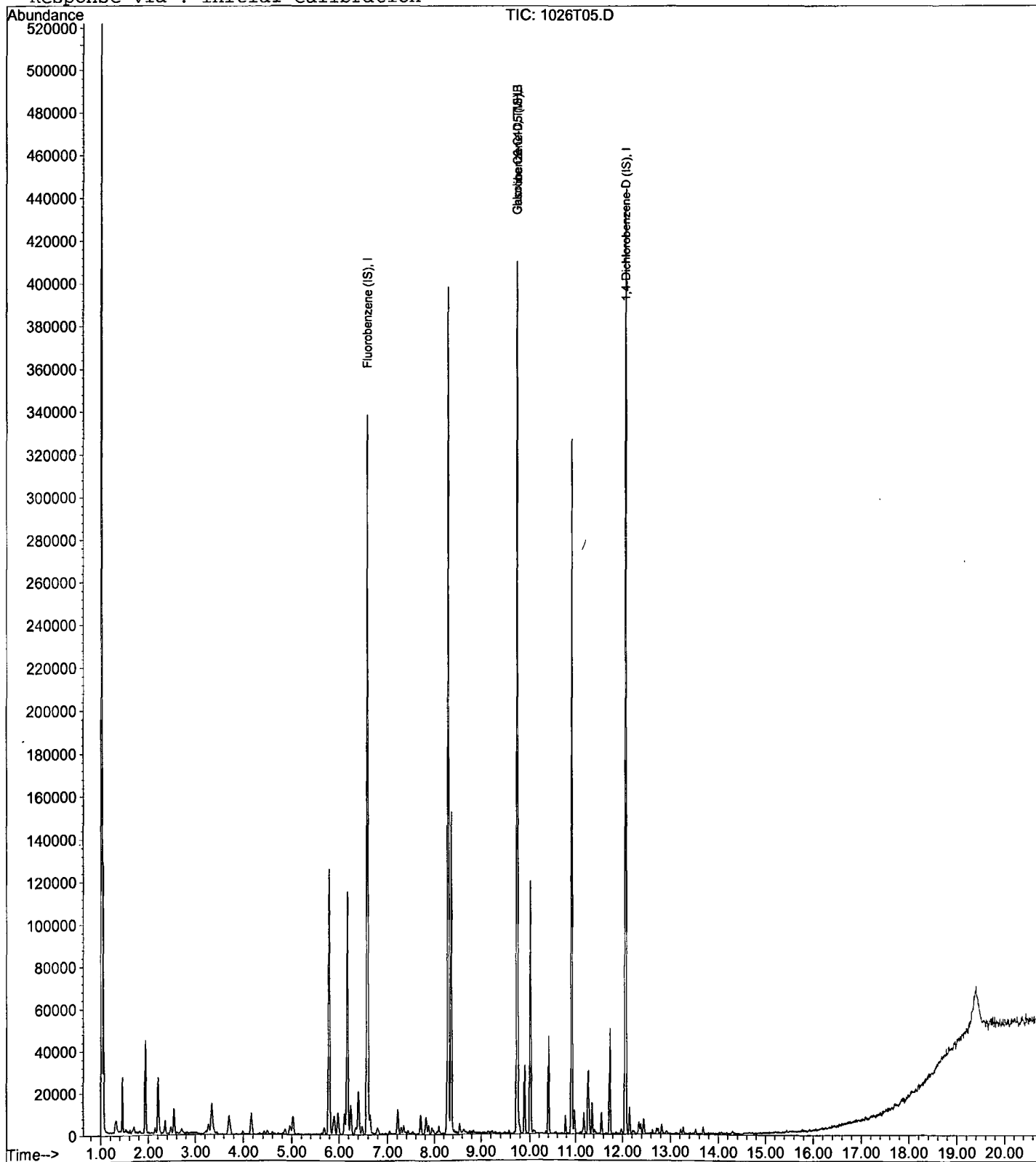
Data File : M:\THOR\DATA\T191023\1026T05.D
Acq On : 26 Oct 19 14:06
Sample : 300ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:14 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T06.D Vial: 6
 Acq On : 26 Oct 19 14:34 Operator:
 Sample : 600ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 10:30 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	311099	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392304	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	407391	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	5413641m	656.4416	ppb	100

Quantitation Report

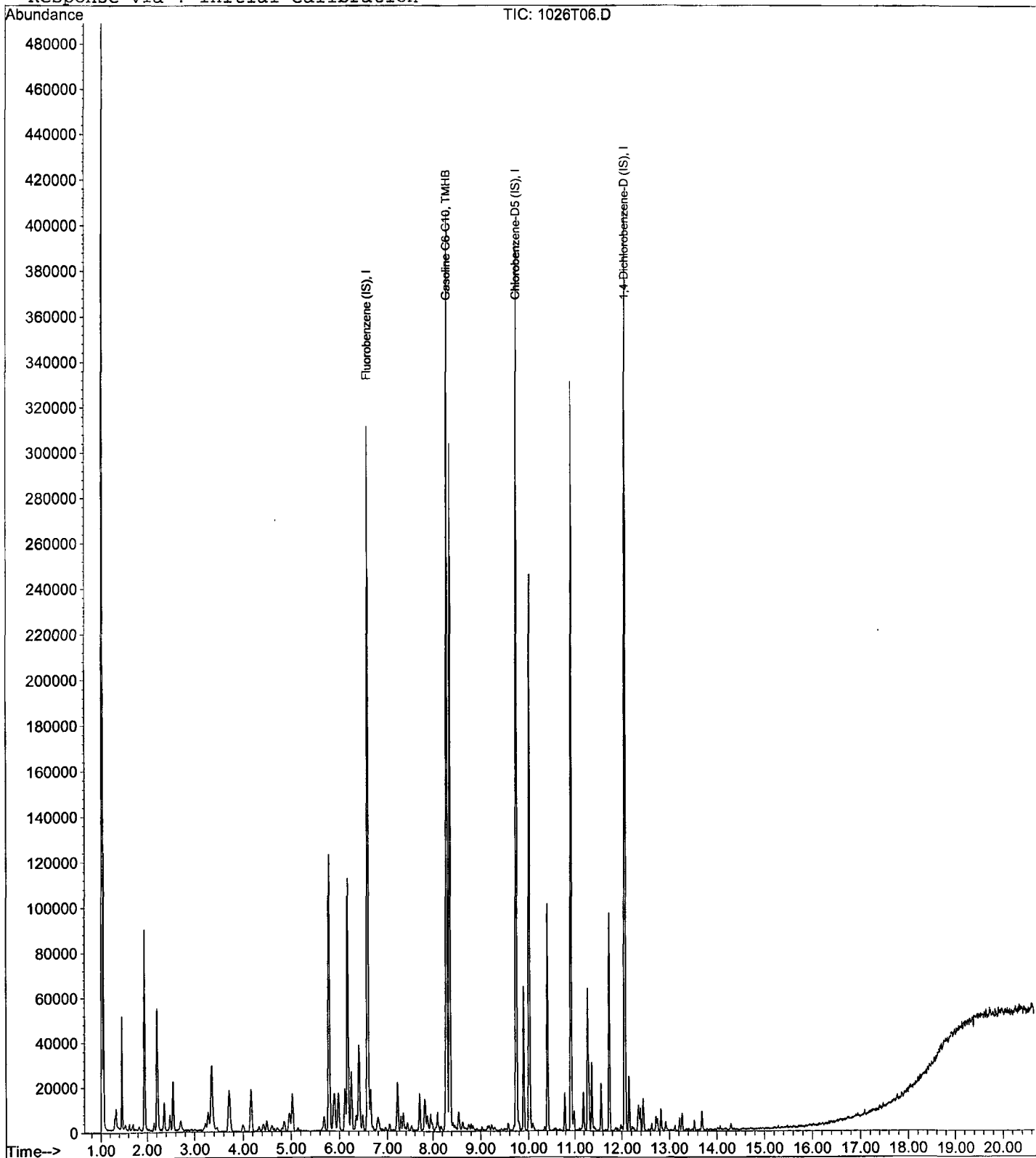
Data File : M:\THOR\DATA\T191023\1026T06.D
Acq On : 26 Oct 19 14:34
Sample : 600ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:30 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T07.D Vial: 7
 Acq On : 26 Oct 19 15:03 Operator:
 Sample : 800ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 10:31 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	329742	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	399858	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	434700	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.36	TIC	6517501m	862.3907	ppb	100

Quantitation Report

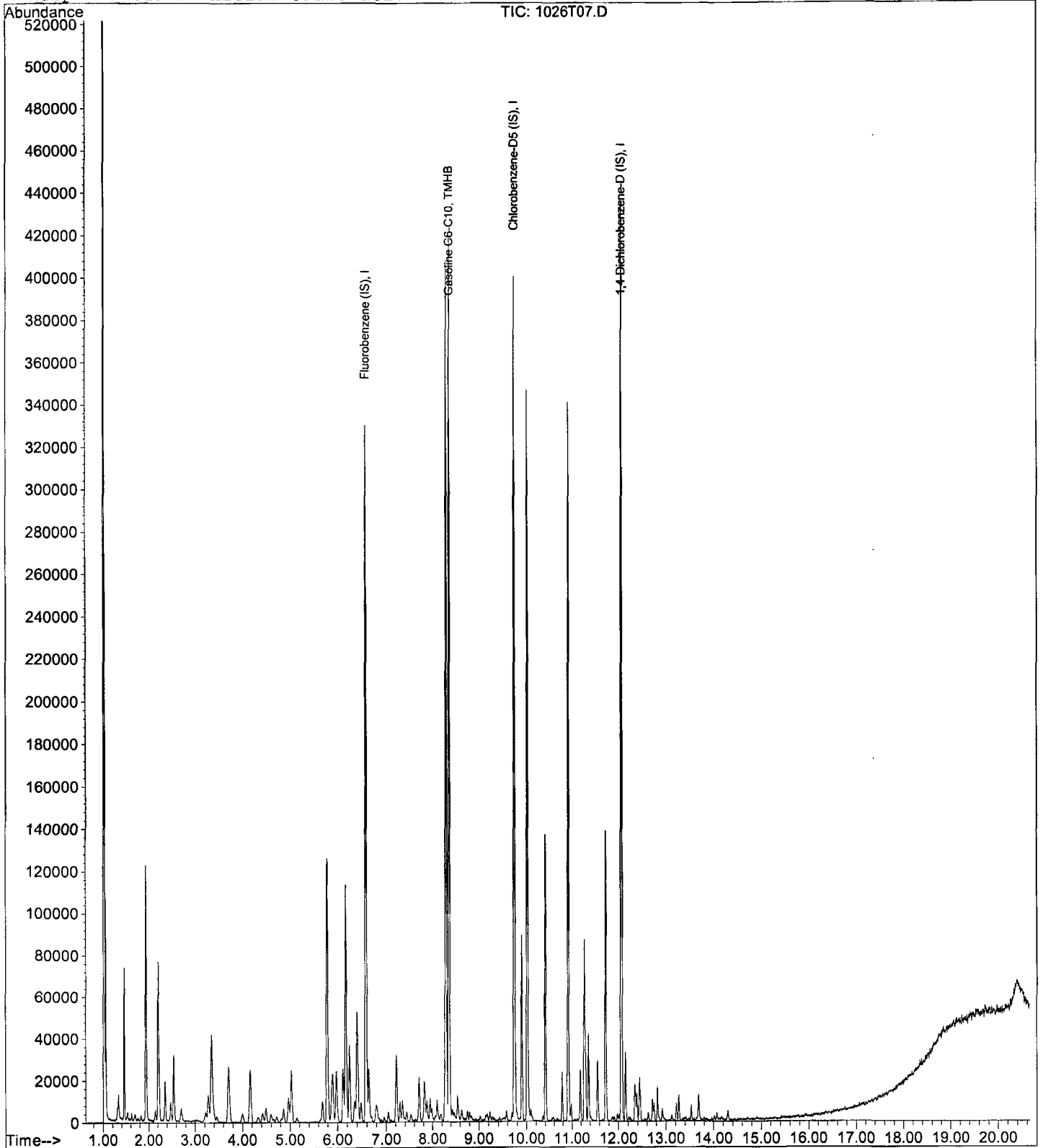
Data File : M:\THOR\DATA\T191023\1026T07.D
Acq On : 26 Oct 19 15:03
Sample : 800ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:31 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Thor
Initial Cal. Date: 10/23/19
Data File: 1028T01.D

	Compound	MEAN	CCRF	%D		%Drift
1	TMHB Gasoline C6-C10	3.825	1.077	72	TMHBL	11
2						
3						
4						
5						
6						
7						
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36						
37						
38						
39						
40	Average			72.0		

Data File : M:\THOR\DATA\T191028\1028T01.D Vial: 1
 Acq On : 28 Oct 19 15:43 Operator:
 Sample : (SS) 300ug/L GAS 10/28/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 15:45 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.58	TIC	356344	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	432263	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	455917	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4607248m	265.6409	ppb	100

Quantitation Report

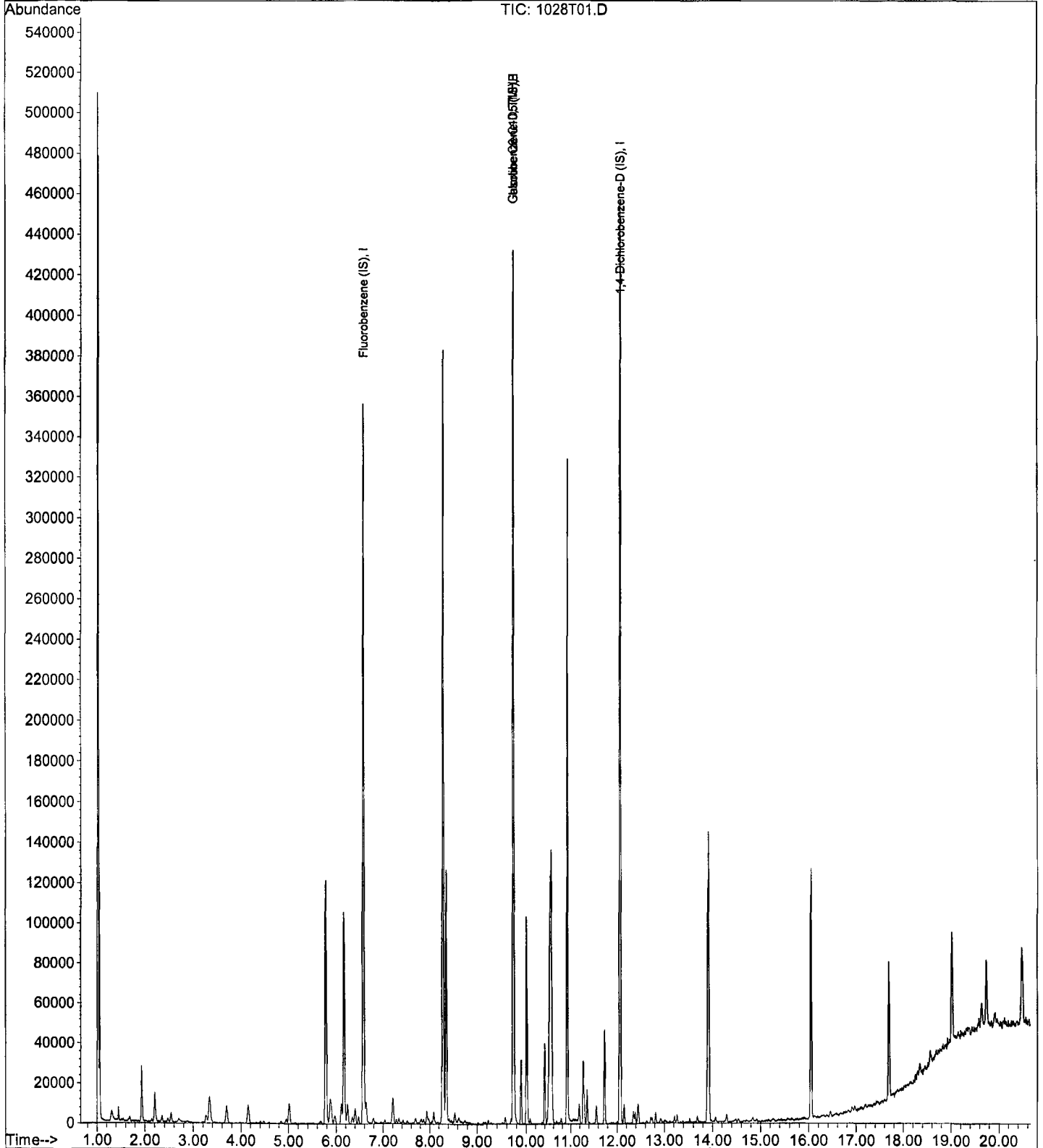
Data File : M:\THOR\DATA\T191028\1028T01.D
Acq On : 28 Oct 19 15:43
Sample : (SS) 300ug/L GAS 10/28/19
Misc : IS&S 9/23/19

Vial: 1
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 15:45 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Thor
Initial Cal. Date: 10/23/19
Data File: 1028T18.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline C6-C10	3.825	1.072	72	TMHBL 13
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
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33					
34					
35					
36					
37					
38					
39					
40	Average			72.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/23/19

Data File: 1028T18.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.4819	0.4729	1.9	S
3	S 1,2-DCA-D4(S)	0.5396	0.5255	2.6	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	1.867	1.847	1.1	S
6	S 4-Bromofluorobenzene(S)	0.7391	0.7114	3.8	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			2.4	

Data File : M:\THOR\DATA\T191028\1028T18.D
 Acq On : 28 Oct 19 23:46
 Sample : 191028A CCV/LCS 300ug/L
 Misc : IS&S 9/23/19

Vial: 18
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:47 2019

Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	309313	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	390245	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	416848	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	3977475m	260.0908	ppb	100

Data File : M:\THOR\DATA\T191028\1028T18.D
 Acq On : 28 Oct 19 23:46
 Sample : 191028A CCV/LCS 300ug/L
 Misc : IS&S 9/23/19

Vial: 18
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 31 12:39 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	150208	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	134784	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	75136	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	71028	24.5319	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.128%
3) 1,2-DCA-D4(S)	6.17	65	78939	24.3495	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.396%
5) Toluene-D8(S)	8.30	98	248990	24.7372	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.948%
6) 4-Bromofluorobenzene(S)	10.92	174	95882	24.0623	ppb	0.00
Spiked Amount				25.000		
					Recovery =	96.248%

Target Compounds Qvalue

Quantitation Report

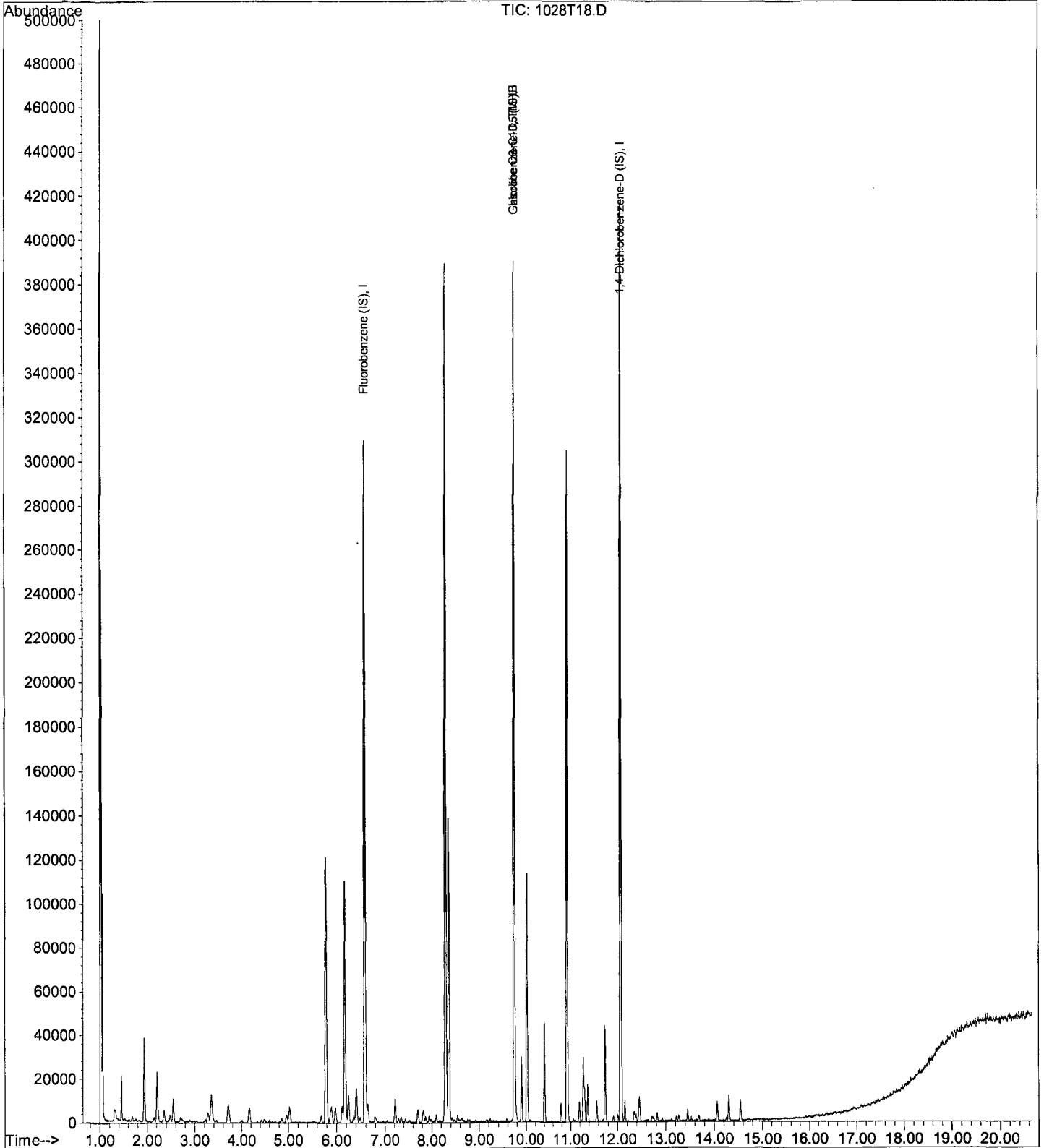
Data File : M:\THOR\DATA\T191028\1028T18.D
Acq On : 28 Oct 19 23:46
Sample : 191028A CCV/LCS 300ug/L
Misc : IS&S 9/23/19

Vial: 18
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:47 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/23/19

Data File: 1028T38.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	3.825	1.018	73	TMHBL 30
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			73.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Thor
Initial Cal. Date: 10/23/19
Data File: 1028T38.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	S	Dibromofluoromethane(S)	0.4819	0.4629	3.9	S
3	S	1,2-DCA-D4(S)	0.5396	0.5220	3.2	S
4	I	Chlorobenzene-D5 (IS)	ISTD			I
5	S	Toluene-D8(S)	1.867	1.798	3.7	S
6	S	4-Bromofluorobenzene(S)	0.7391	0.7039	4.8	S
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
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25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40		Average			3.9	

Average

3.9

Data File : M:\THOR\DATA\T191028\1028T38.D Vial: 38
 Acq On : 29 Oct 19 9:11 Operator:
 Sample : Ending CCV 300ug/L 10/13/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 29 8:50 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	308211	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	383257	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	416157	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	3765766m	209.3847	ppb	100

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

Data File : M:\THOR\DATA\T191028\1028T38.D
 Acq On : 29 Oct 19 9:11
 Sample : Ending CCV 300ug/L 10/13/19
 Misc : IS&S 9/23/19

Vial: 38
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 29 8:50 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	146816	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	134848	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	75808	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	67962	24.0153	ppb	0.00
Spiked Amount						
						Recovery = 96.060%
3) 1,2-DCA-D4(S)	6.17	65	76645	24.1881	ppb	0.00
Spiked Amount						
						Recovery = 96.752%
5) Toluene-D8(S)	8.30	98	242502	24.0811	ppb	0.00
Spiked Amount						
						Recovery = 96.324%
6) 4-Bromofluorobenzene(S)	10.92	174	94922	23.8101	ppb	0.00
Spiked Amount						
						Recovery = 95.240%

Target Compounds

Qvalue

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

Quantitation Report

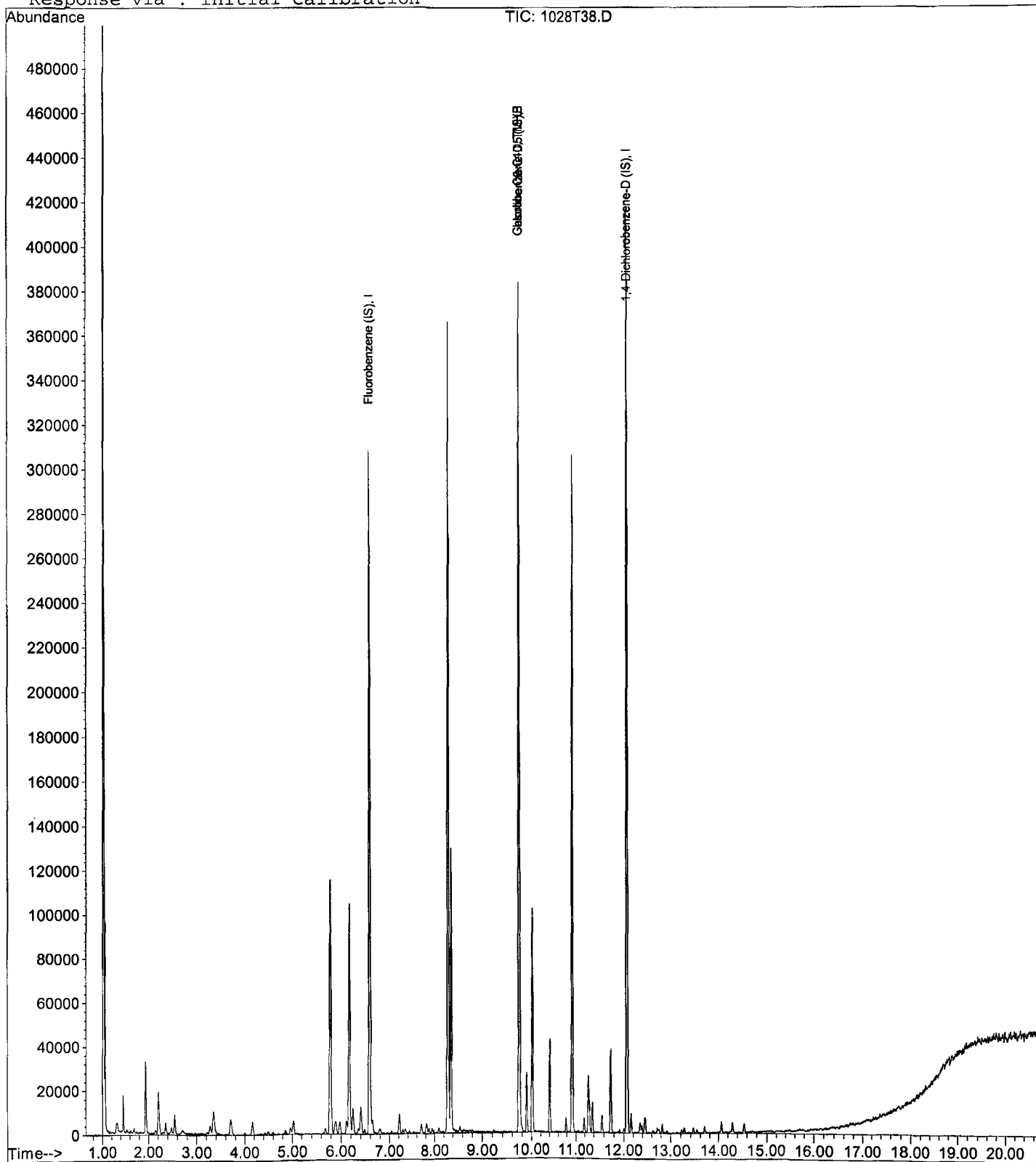
Data File : M:\THOR\DATA\T191028\1028T38.D
Acq On : 29 Oct 19 9:11
Sample : Ending CCV 300ug/L 10/13/19
Misc : IS&S 9/23/19

Vial: 38
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:50 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/19
Instrument: Loki

Initials: DP

1023L10.D 1023L11.D 1023L12.D 1023L13.D 1023L14.D 1023L15.D 1023L16.D 1023L17.D 1023L18.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768		0.31	7.4	S			
3	S 1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961		0.33	8.5	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617		0.91	9.0	S			
6	S 4-Bromofluorobenzene(S)	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
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35																	

Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\191023\1023L10.D Vial: 6
 Acq On : 23 Oct 19 19:30 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	199488	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	15394	5.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.132%	
3) 1,2-DCA-D4(S)	4.95	65	17619	5.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.576%	
5) Toluene-D8(S)	7.38	98	39179	5.40	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.592%	
6) 4-Bromofluorobenzene(S)	10.28	95	12477	4.85	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.412%	

Target Compounds Qvalue

Quantitation Report

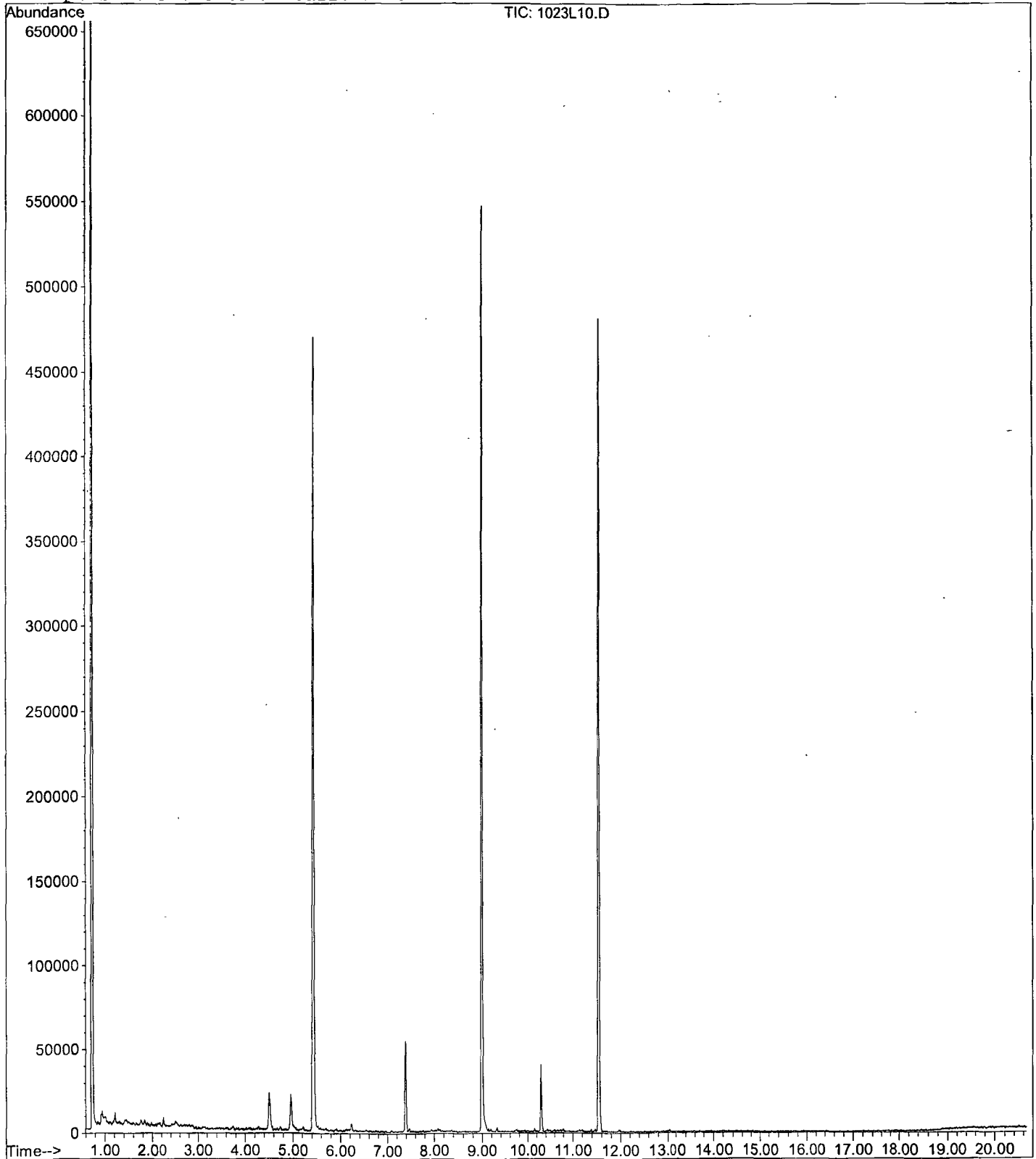
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LOKI\DATA\191023\1023L11.D Vial: 7
 Acq On : 23 Oct 19 19:59 Operator:
 Sample : 0.5ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	211584	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	15575	5.62	ppb	0.00
Spiked Amount						
			Recovery	=		22.488%
3) 1,2-DCA-D4(S)	4.95	65	16291	5.47	ppb	0.00
Spiked Amount						
			Recovery	=		21.892%
5) Toluene-D8(S)	7.38	98	37595	4.88	ppb	0.00
Spiked Amount						
			Recovery	=		19.532%
6) 4-Bromofluorobenzene(S)	10.29	95	13224	4.85	ppb	0.00
Spiked Amount						
			Recovery	=		19.396%

Target Compounds Qvalue

Quantitation Report

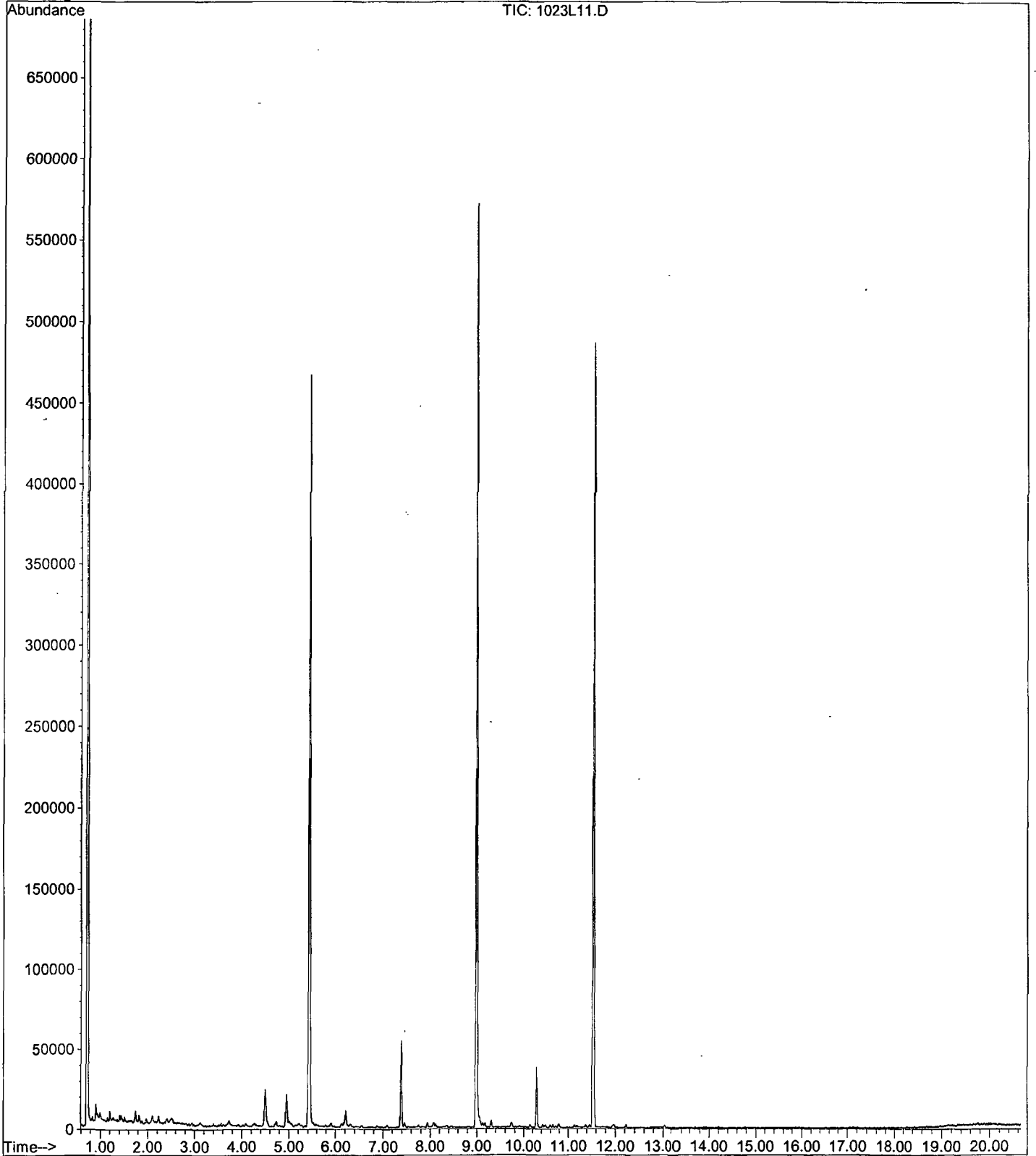
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	208192	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	27680	9.79	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.172%	
3) 1,2-DCA-D4(S)	4.95	65	28867	9.51	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.020%	
5) Toluene-D8(S)	7.38	98	64087	8.46	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.840%	
6) 4-Bromofluorobenzene(S)	10.28	95	21968	8.19	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.748%	

Target Compounds

Qvalue

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

Quantitation Report

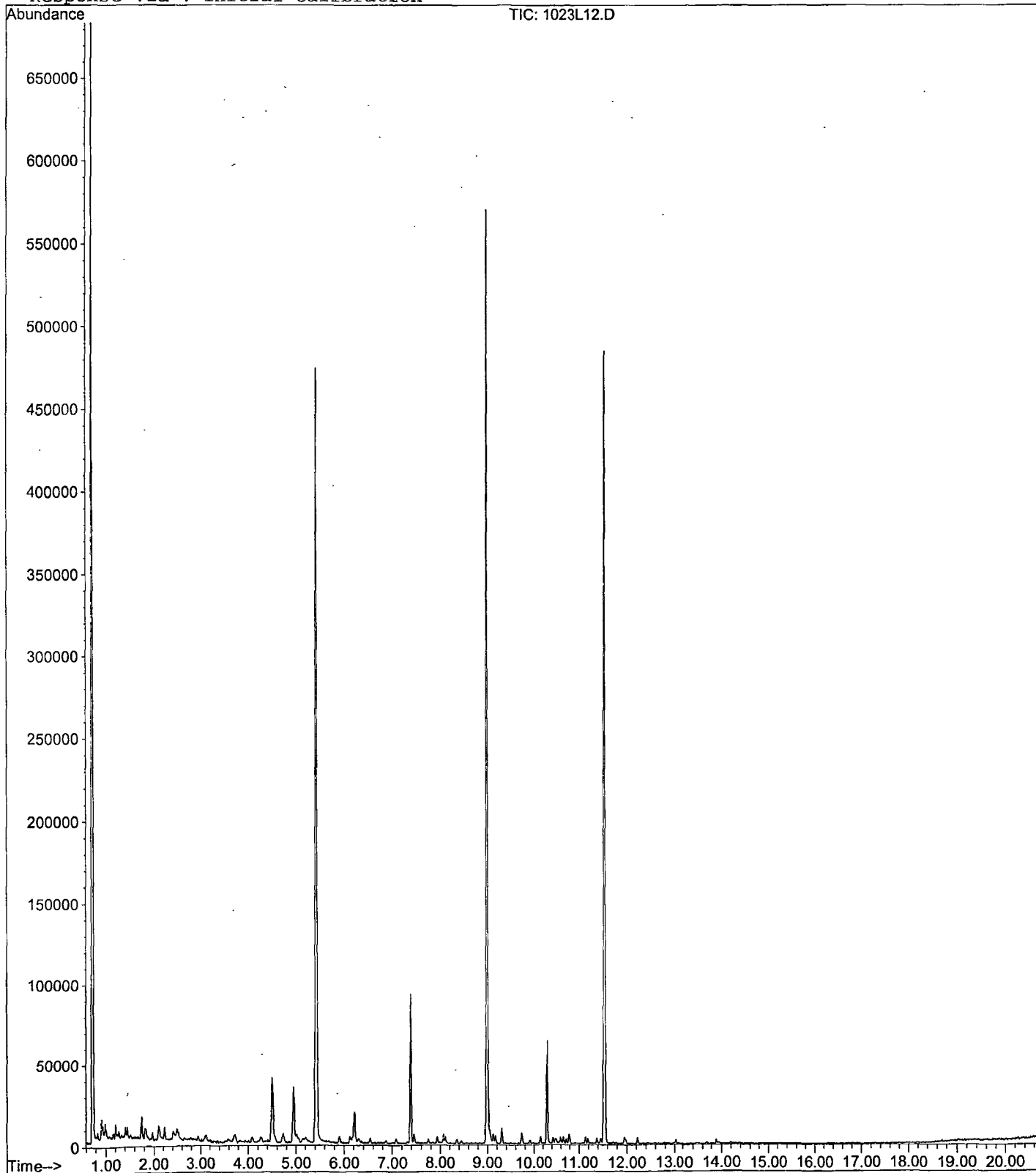
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D Vial: 9
 Acq On : 23 Oct 19 20:56 Operator:
 Sample : 2.0ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	202496	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	25895	9.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.176%	
3) 1,2-DCA-D4(S)	4.95	65	28773	9.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.444%	
5) Toluene-D8(S)	7.38	98	64548	8.76	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.040%	
6) 4-Bromofluorobenzene(S)	10.29	95	21984	8.42	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.696%	

Target Compounds Qvalue

Quantitation Report

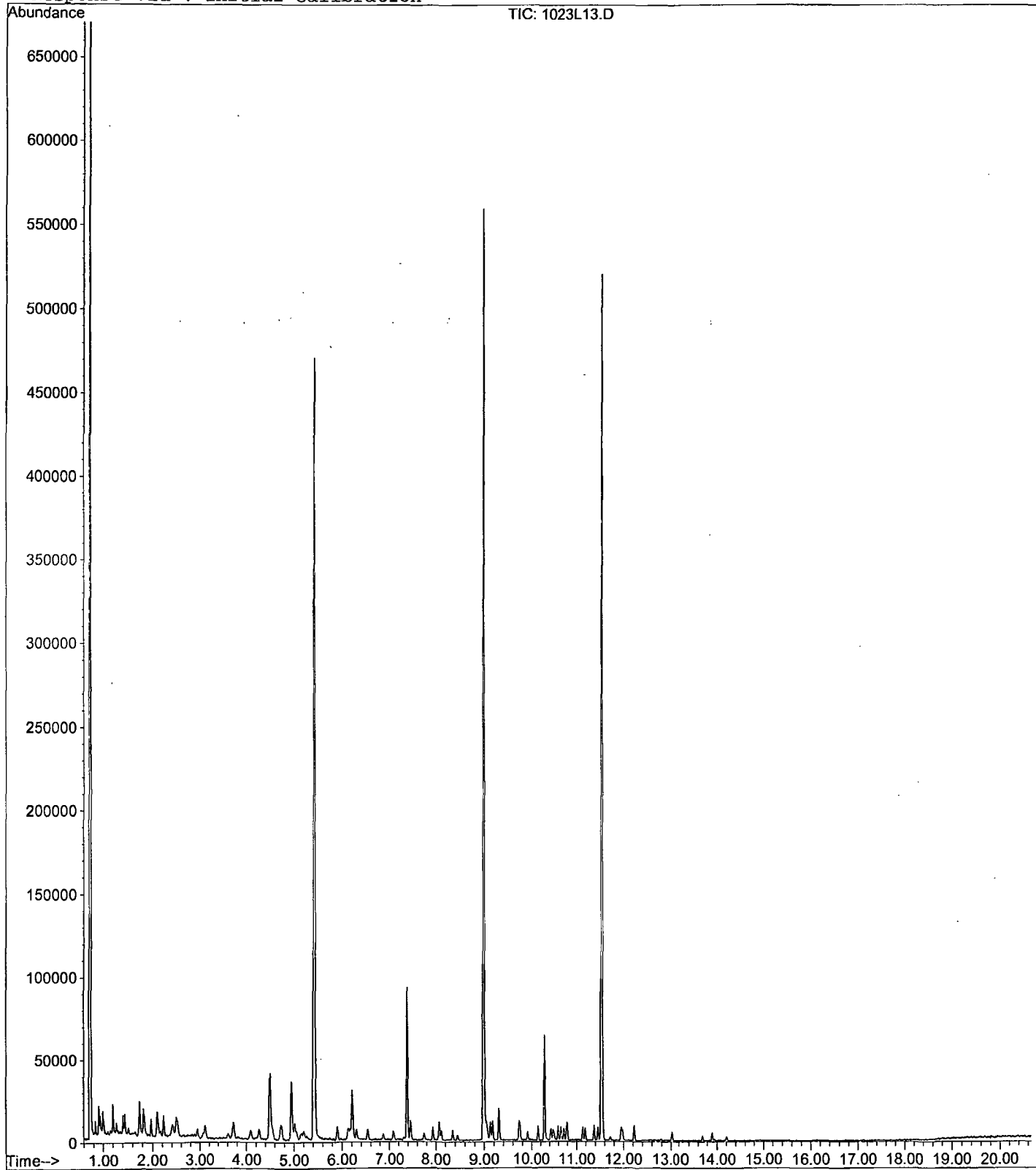
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D Vial: 10
 Acq On : 23 Oct 19 21:24 Operator:
 Sample : 5.0ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	215872	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	73331	25.57	ppb	0.00
Spiked Amount	25.000		Recovery	= 102.268%		
3) 1,2-DCA-D4(S)	4.95	65	77274	25.07	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.300%		
5) Toluene-D8(S)	7.38	98	196494	25.02	ppb	0.00
Spiked Amount	25.000		Recovery	= 100.064%		
6) 4-Bromofluorobenzene(S)	10.29	95	66904	24.05	ppb	0.00
Spiked Amount	25.000		Recovery	= 96.188%		

Target Compounds

Qvalue

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

Quantitation Report

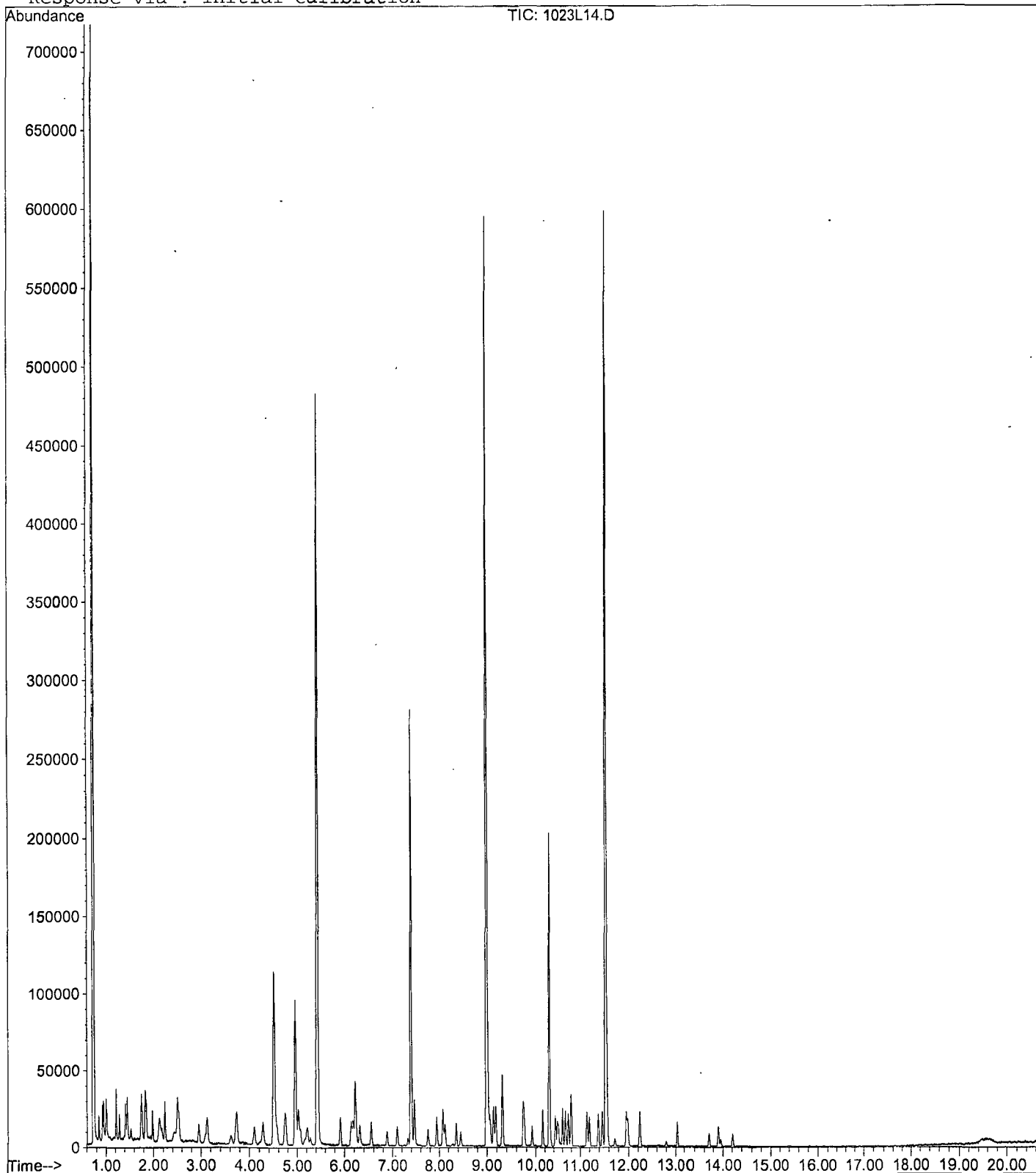
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D Vial: 11
 Acq On : 23 Oct 19 21:53 Operator:
 Sample : 10ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	224832	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	73614	24.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.392%	
3) 1,2-DCA-D4(S)	4.95	65	77647	24.15	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.592%	
5) Toluene-D8(S)	7.38	98	203676	24.90	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.588%	
6) 4-Bromofluorobenzene(S)	10.29	95	73416	25.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.344%	

Target Compounds Qvalue

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

Quantitation Report

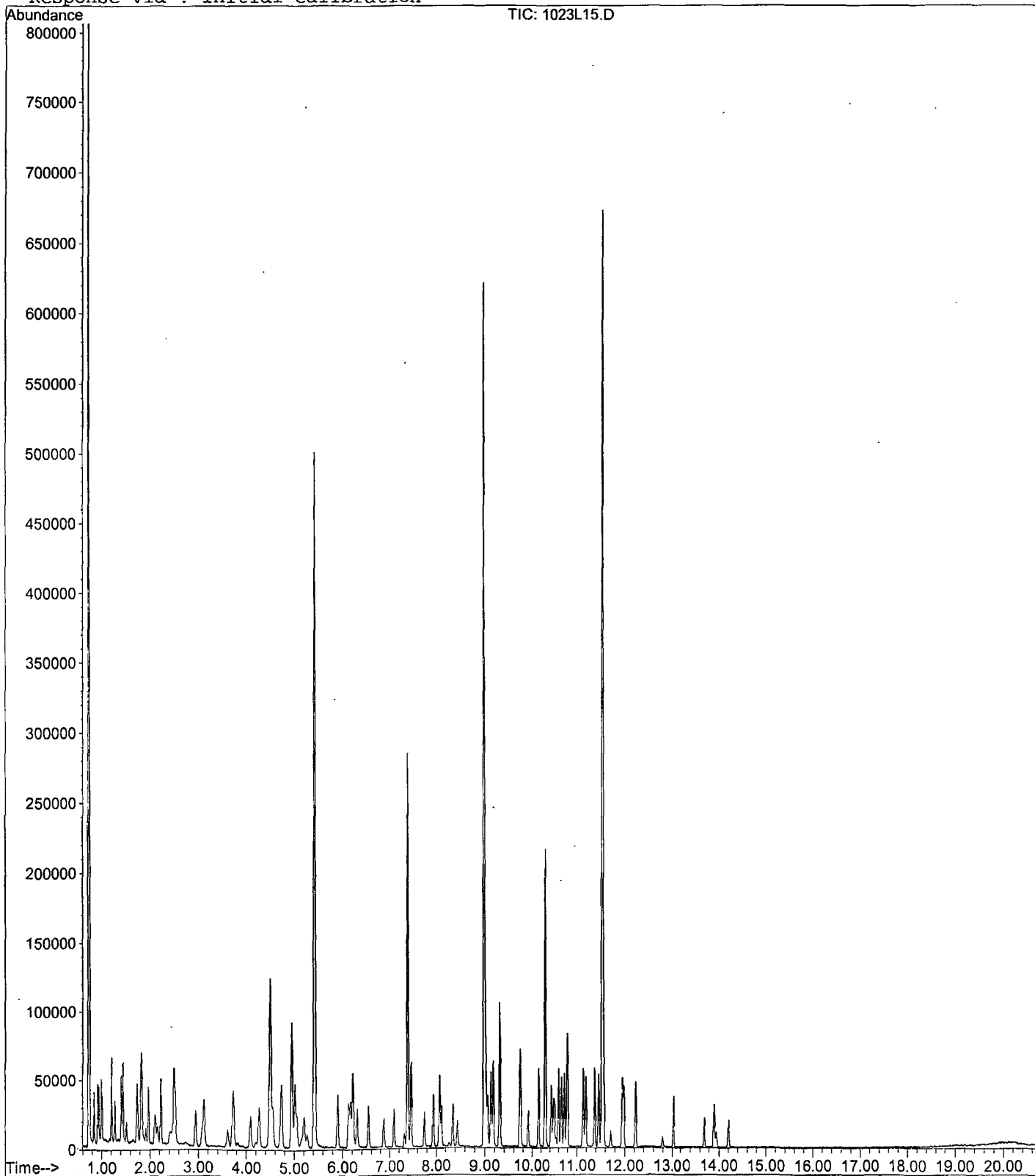
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D Vial: 12
 Acq On : 23 Oct 19 22:21 Operator:
 Sample : 20ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	234944	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	152485	48.86	ppb	0.00
Spiked Amount				25.000		
					Recovery =	195.420%
3) 1,2-DCA-D4(S)	4.95	65	165297	49.29	ppb	0.00
Spiked Amount				25.000		
					Recovery =	197.164%
5) Toluene-D8(S)	7.38	98	454363	53.15	ppb	0.00
Spiked Amount				25.000		
					Recovery =	212.600%
6) 4-Bromofluorobenzene(S)	10.29	95	166667	55.04	ppb	0.00
Spiked Amount				25.000		
					Recovery =	220.168%

Target Compounds Qvalue

Quantitation Report

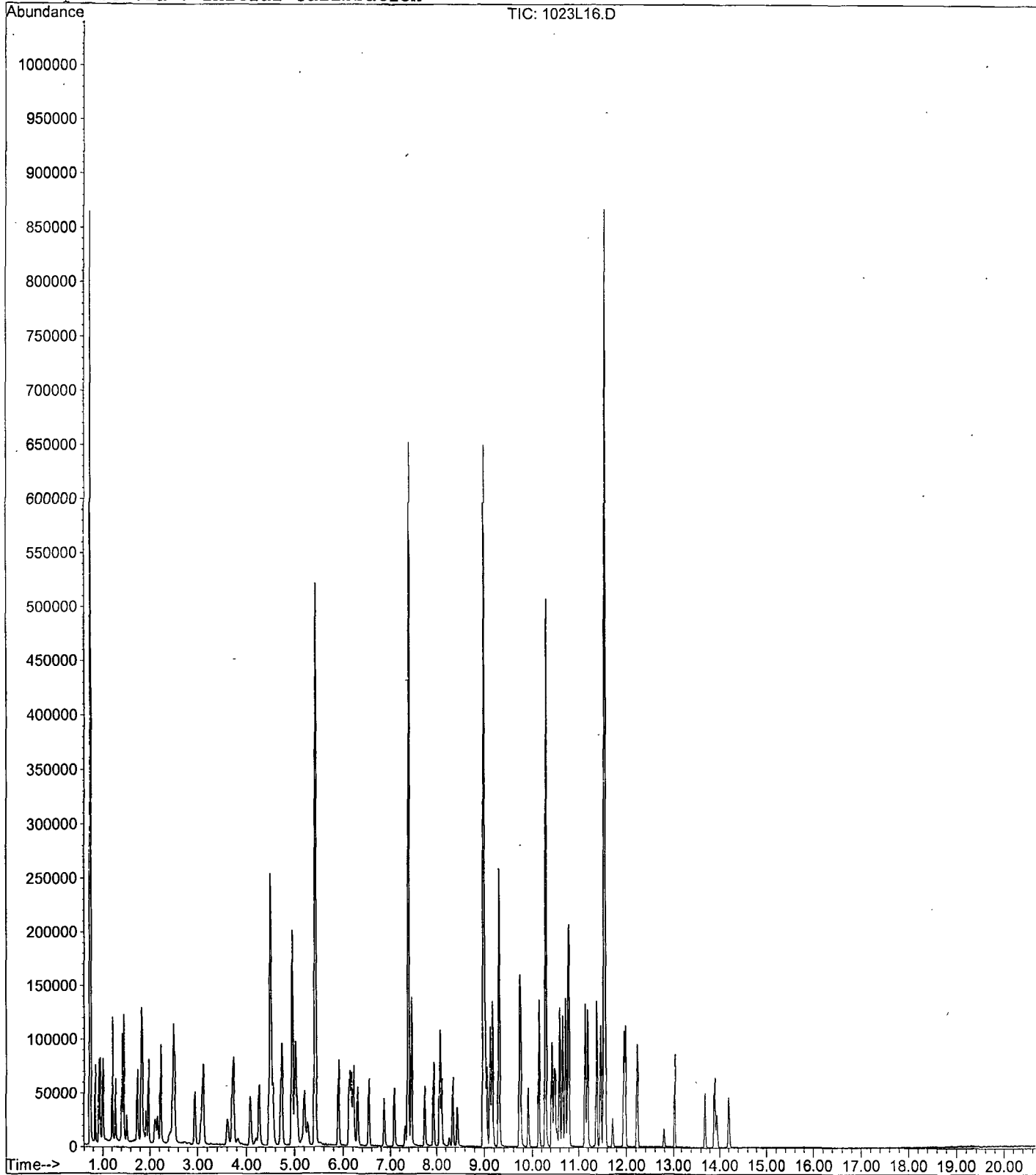
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	232256	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	154619	48.87	ppb	0.00
Spiked Amount	25.000		Recovery	= 195.492%		
3) 1,2-DCA-D4(S)	4.95	65	164006	48.25	ppb	0.00
Spiked Amount	25.000		Recovery	= 192.992%		
5) Toluene-D8(S)	7.38	98	466931	55.25	ppb	0.00
Spiked Amount	25.000		Recovery	= 221.008%		
6) 4-Bromofluorobenzene(S)	10.29	95	177941	59.45	ppb	0.00
Spiked Amount	25.000		Recovery	= 237.784%		

Target Compounds

Qvalue

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

Quantitation Report

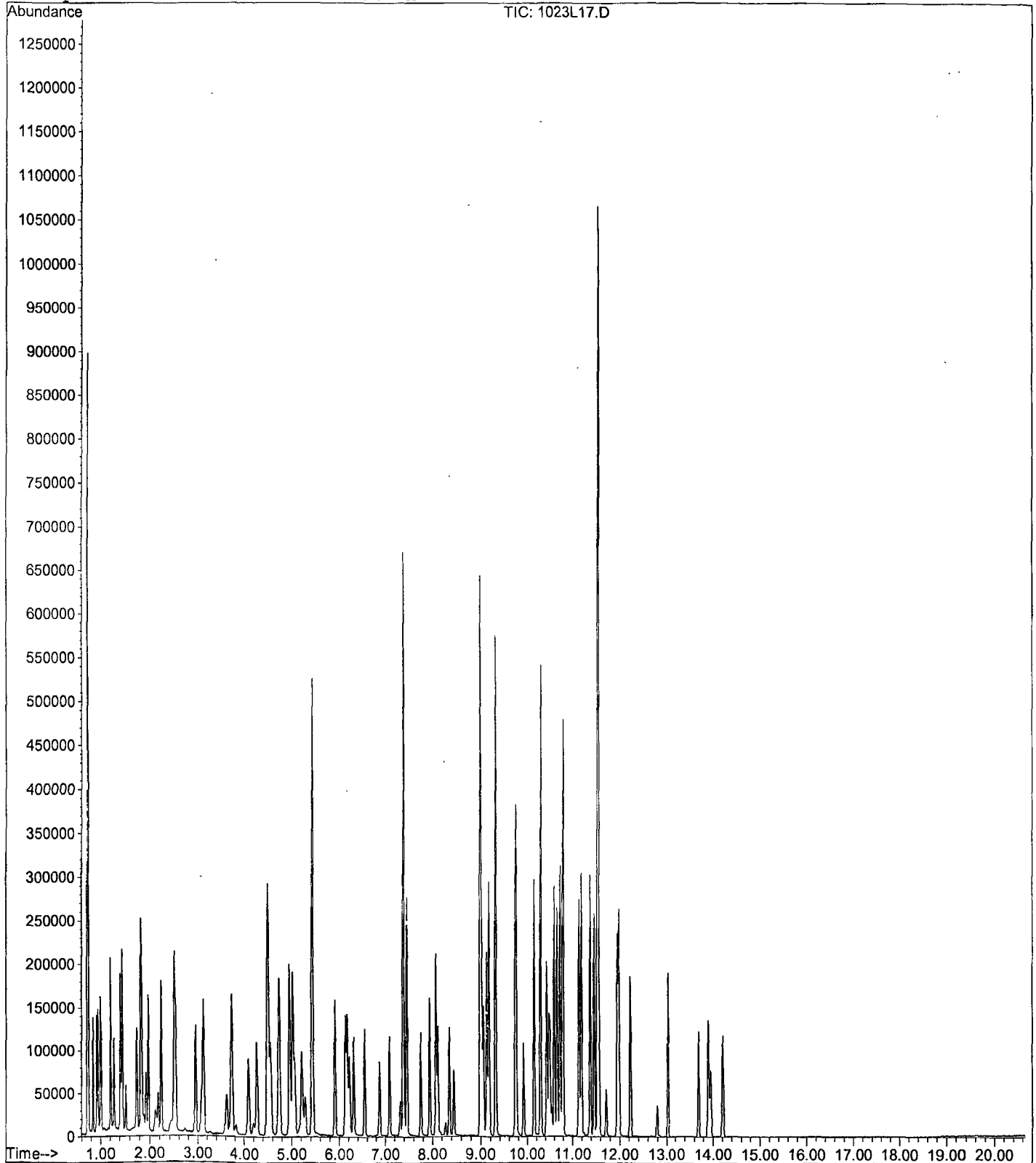
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D Vial: 14
 Acq On : 23 Oct 19 23:18 Operator:
 Sample : 100ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	239360	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	281593	89.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	359.704%	
3) 1,2-DCA-D4(S)	4.95	65	301257	89.54	ppb	0.00
Spiked Amount	25.000		Recovery	=	358.156%	
5) Toluene-D8(S)	7.38	98	920813	105.73	ppb	0.00
Spiked Amount	25.000		Recovery	=	422.904%	
6) 4-Bromofluorobenzene(S)	10.29	95	349610	113.33	ppb	0.00
Spiked Amount	25.000		Recovery	=	453.320%	

Target Compounds Qvalue

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

Quantitation Report

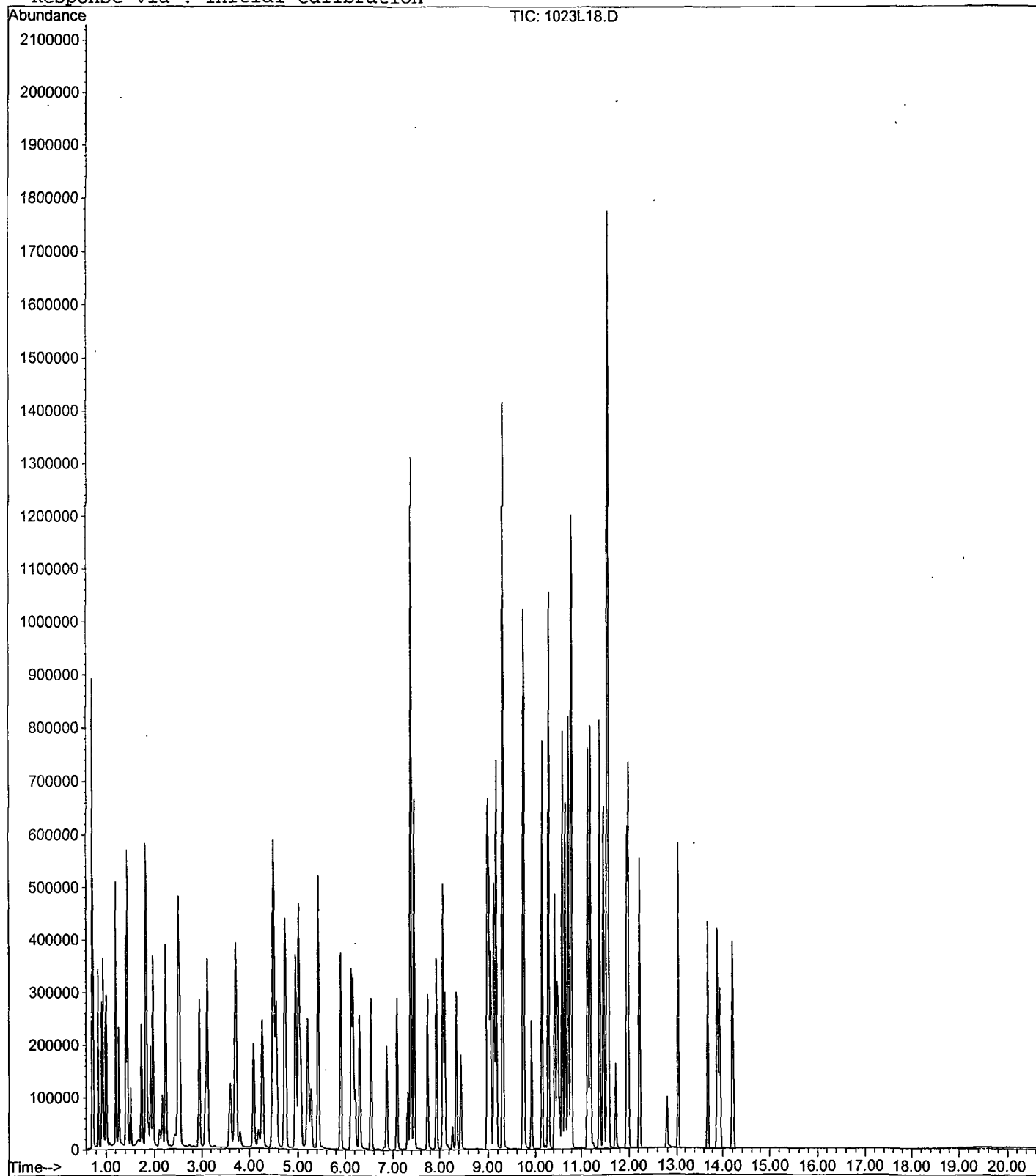
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/27/19
Instrument: Loki

Initials: _____

1026L50.D 1026L51.D 1026L52.D 1026L53.D 1026L54.D 1026L55.D 1026L56.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	10.0	4.049	2.170	0.8414	0.5566	0.4779	0.4246				2.6	132	TMHBL	0.998		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
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Data File : M:\LOKI\DATA\191023\1026L50.D Vial: 50
 Acq On : 27 Oct 19 6:07 Operator:
 Sample : 20ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:56 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	587714	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	786274	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	795193	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4702558m	47.2992	ppb	100

Quantitation Report

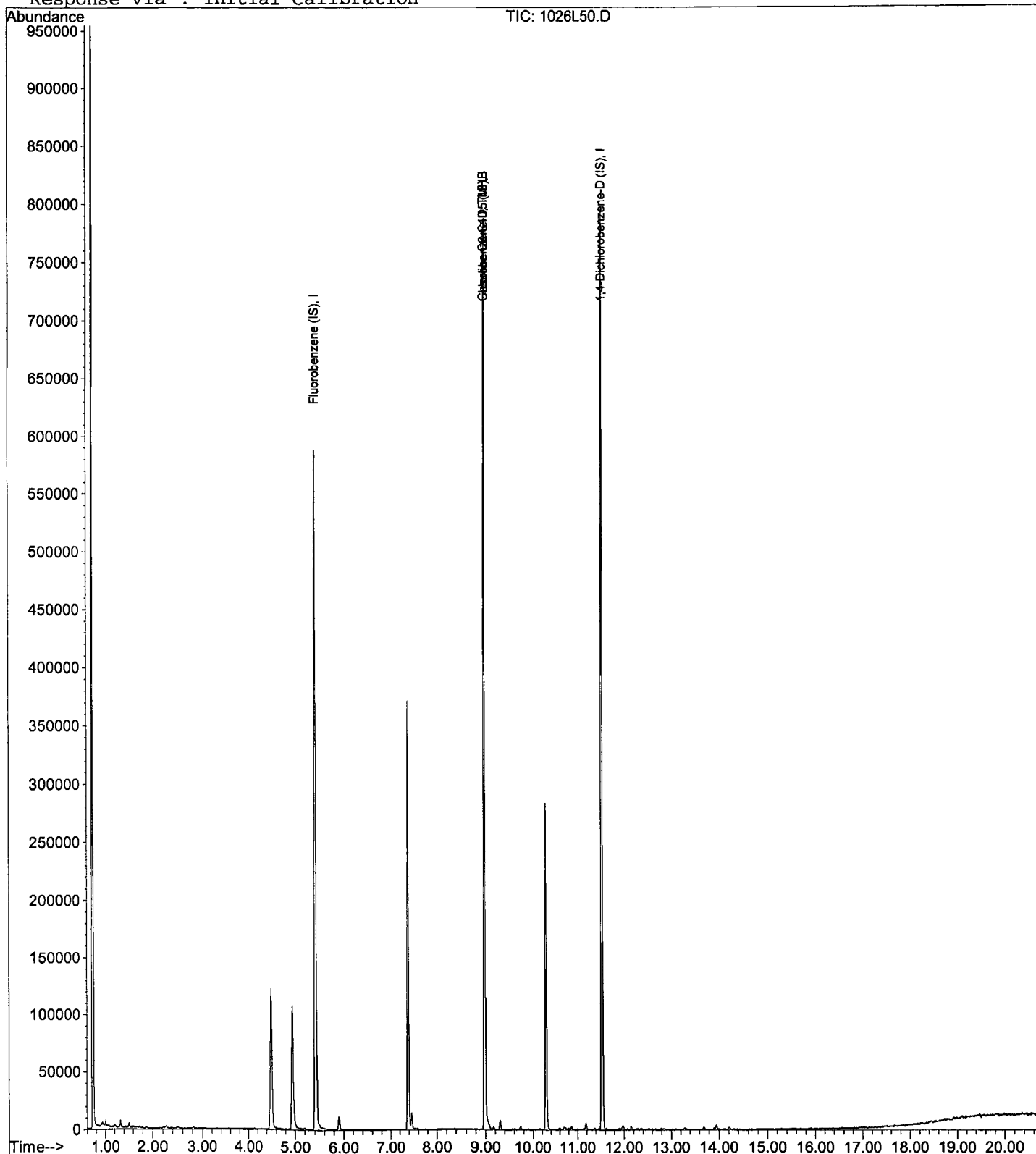
Data File : M:\LOKI\DATA\191023\1026L50.D
Acq On : 27 Oct 19 6:07
Sample : 20ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 50
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:56 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L51.D Vial: 51
 Acq On : 27 Oct 19 6:36 Operator:
 Sample : 50ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	613535	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	808241	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	781111	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4968405m	58.1803	ppb	100

Quantitation Report

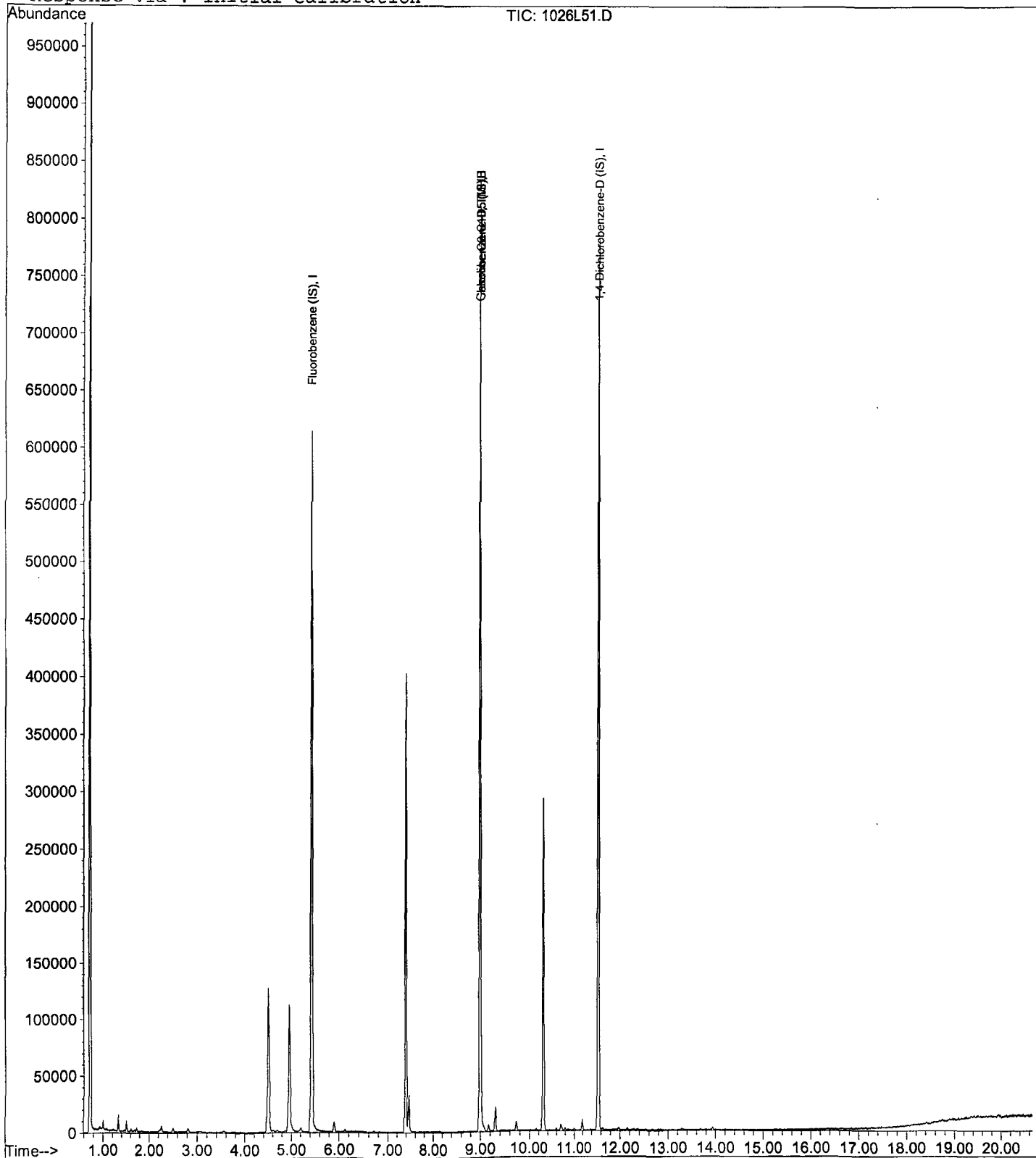
Data File : M:\LOKI\DATA\191023\1026L51.D
Acq On : 27 Oct 19 6:36
Sample : 50ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 51
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L52.D Vial: 52
 Acq On : 27 Oct 19 7:04 Operator:
 Sample : 100ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	589963	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	813222	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	779217	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5121065m	123.8017	ppb	100

Quantitation Report

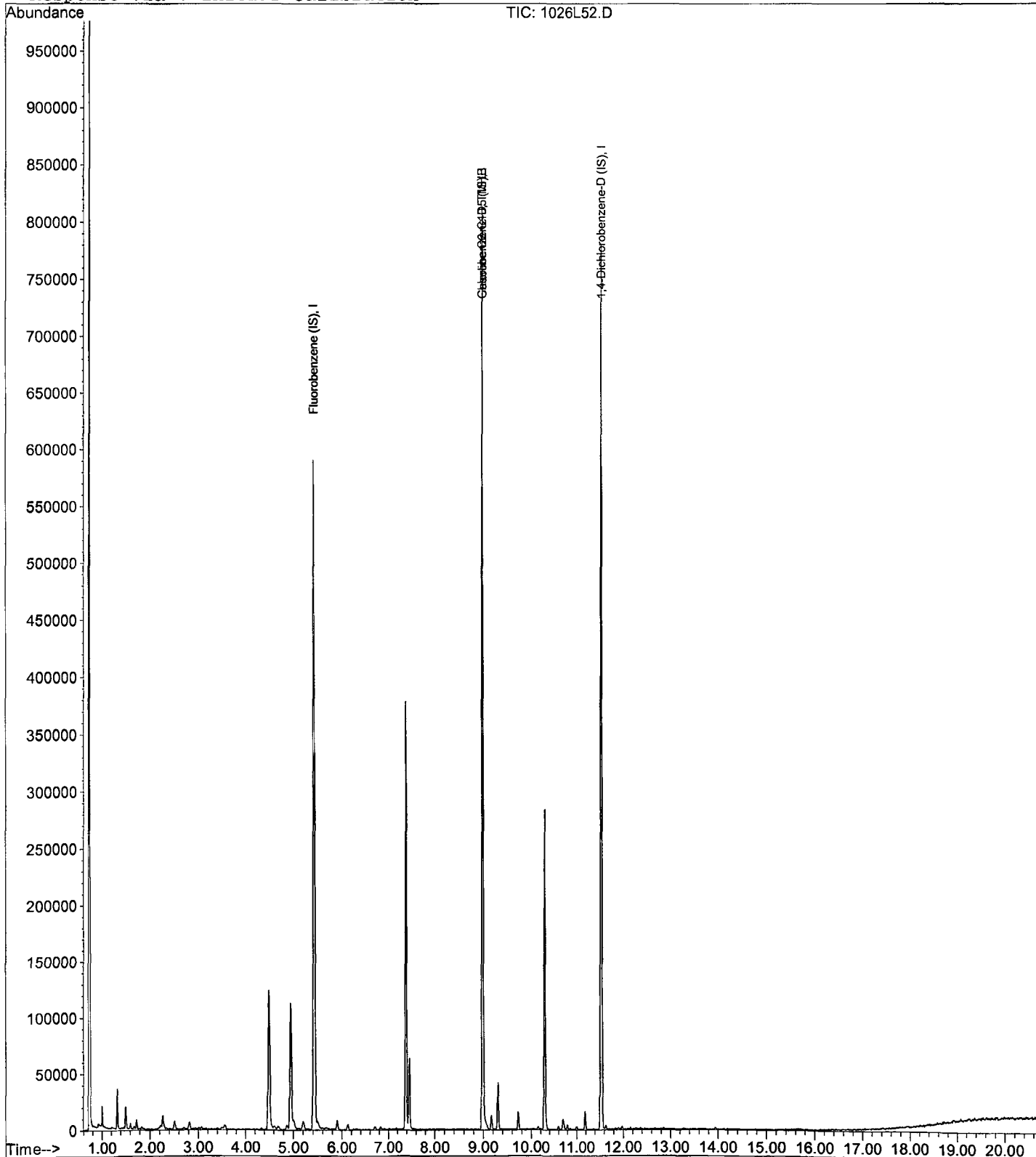
Data File : M:\LOKI\DATA\191023\1026L52.D
Acq On : 27 Oct 19 7:04
Sample : 100ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 52
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L53.D Vial: 53
 Acq On : 27 Oct 19 7:32 Operator:
 Sample : 300ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	605171	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	807996	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	810244	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6110194m	283.4073	ppb	100

Quantitation Report

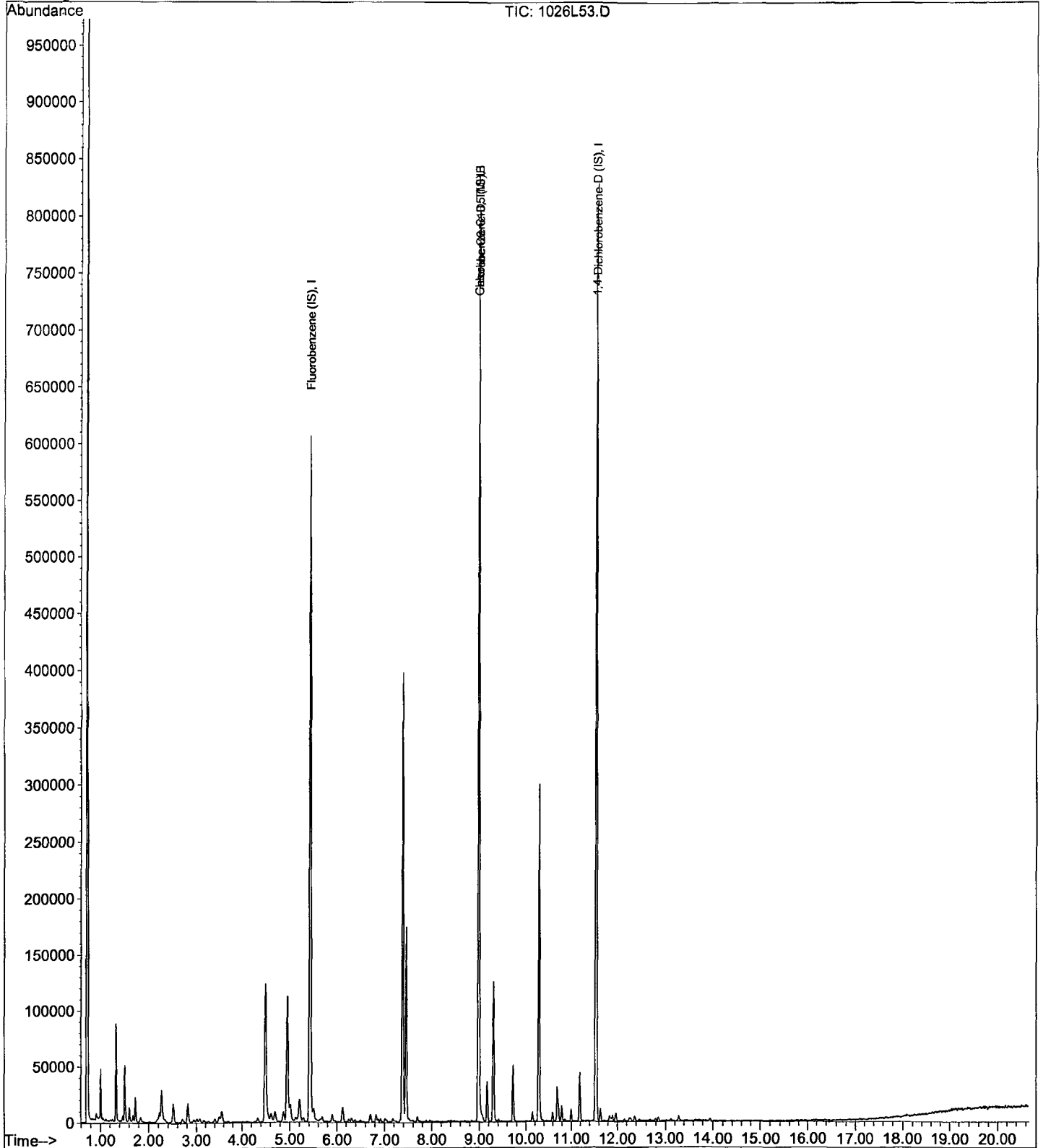
Data File : M:\LOKI\DATA\191023\1026L53.D
Acq On : 27 Oct 19 7:32
Sample : 300ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 53
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L54.D Vial: 54
 Acq On : 27 Oct 19 8:01 Operator:
 Sample : 600ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	621964	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	824309	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	863438	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	8308732m	651.0269	ppb	100

Quantitation Report

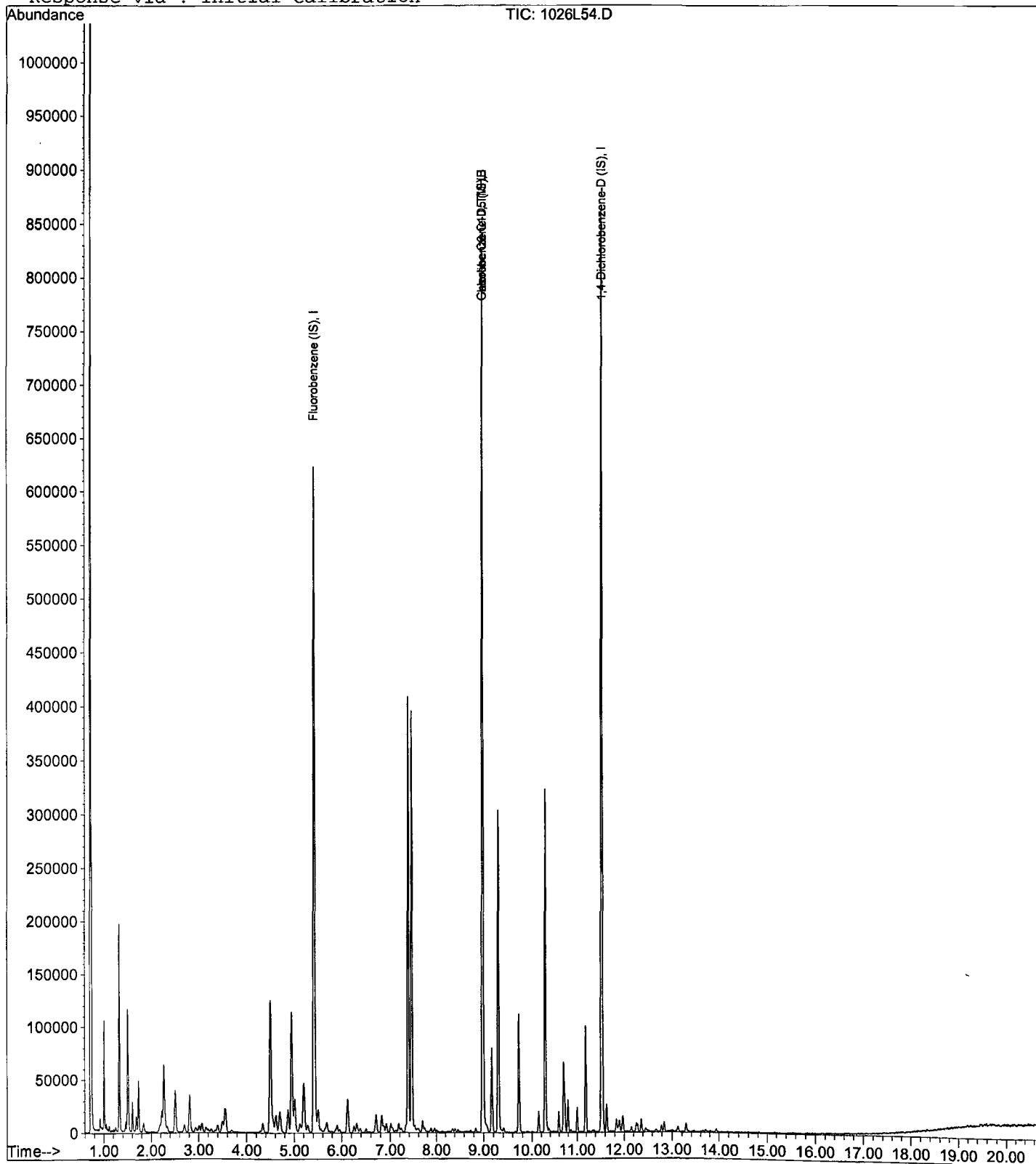
Data File : M:\LOKI\DATA\191023\1026L54.D
Acq On : 27 Oct 19 8:01
Sample : 600ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 54
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L55.D Vial: 55
 Acq On : 27 Oct 19 8:29 Operator:
 Sample : 800ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:55 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	621888	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	829776	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	844730	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	9510252m	868.9337	ppb	100

Quantitation Report

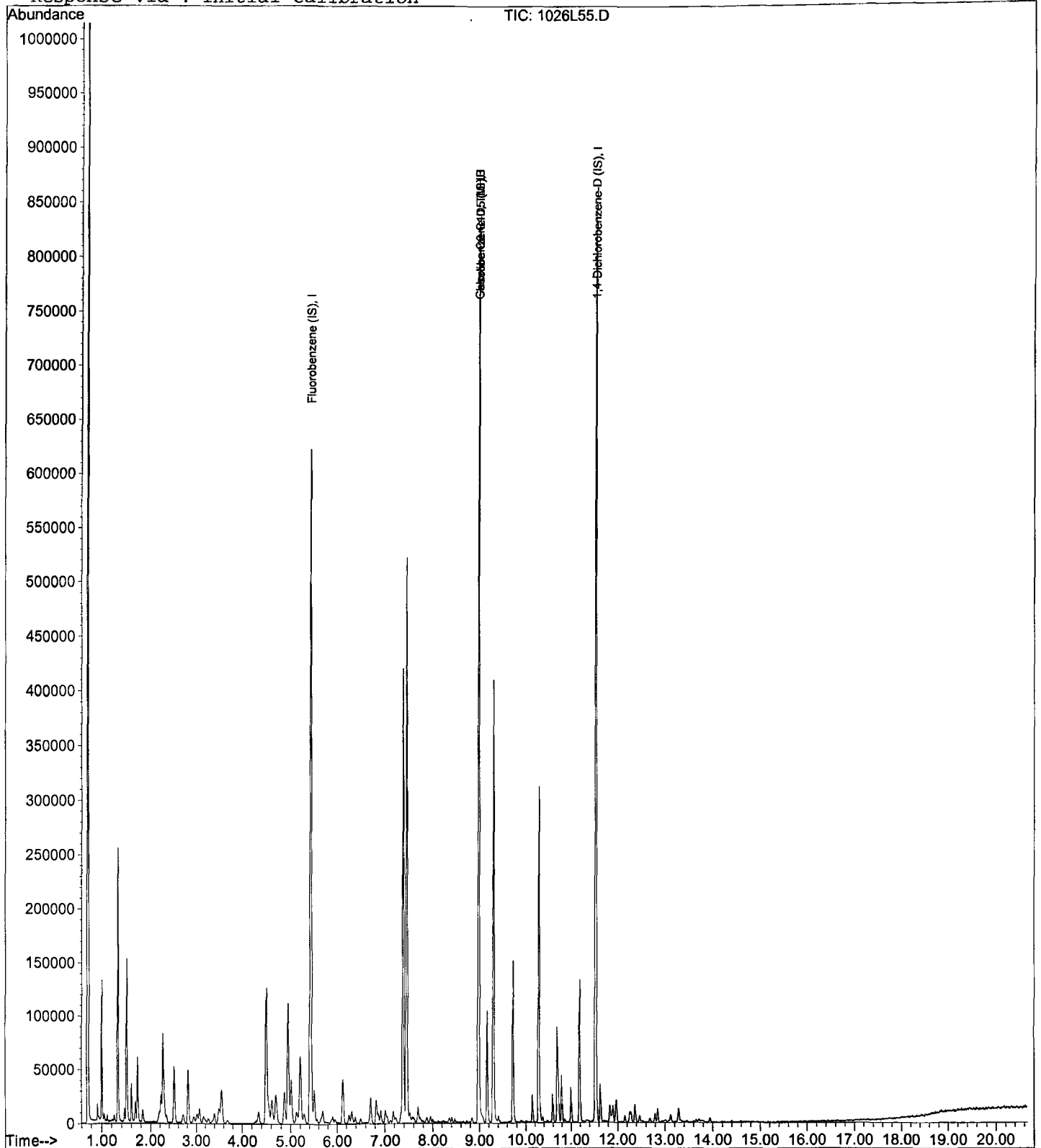
Data File : M:\LOKI\DATA\191023\1026L55.D
Acq On : 27 Oct 19 8:29
Sample : 800ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 55
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:55 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1026L56.D Vial: 56
 Acq On : 27 Oct 19 8:58 Operator:
 Sample : 1000ug/L GAS 10/26/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:54 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	630476	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	837268	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	862019	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	10708466m	1059.6259	ppb	100

Quantitation Report

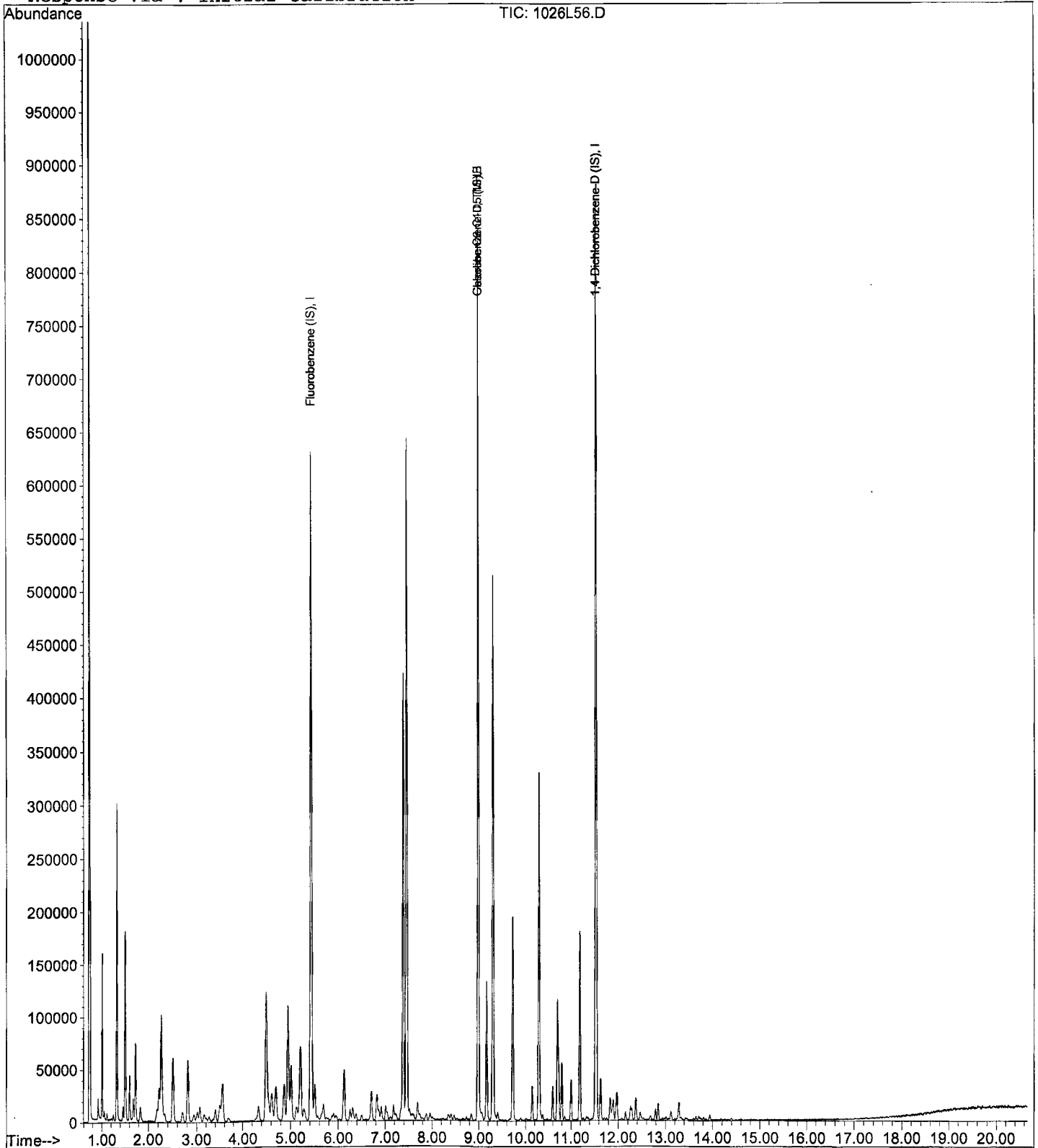
Data File : M:\LOKI\DATA\191023\1026L56.D
Acq On : 27 Oct 19 8:58
Sample : 1000ug/L GAS 10/26/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 56
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 28 11:54 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L09.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	2.646	0.8841	67	TMHBL 4.9
2					
3					
4					
5					
6					
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34					
35					
36					
37					
38					
39					
40	Average			67.0	

Data File : M:\LOKI\DATA\191023\1028L09.D Vial: 9
 Acq On : 28 Oct 19 13:58 Operator:
 Sample : (SS) 300ug/L GAS STD 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:40 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.41	TIC	582767	25.0000	ppb	-0.01
3) Chlorobenzene-D5 (IS)	8.98	TIC	816146	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	800804	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.98	TIC	6182345m	314.7573	ppb	100

Quantitation Report

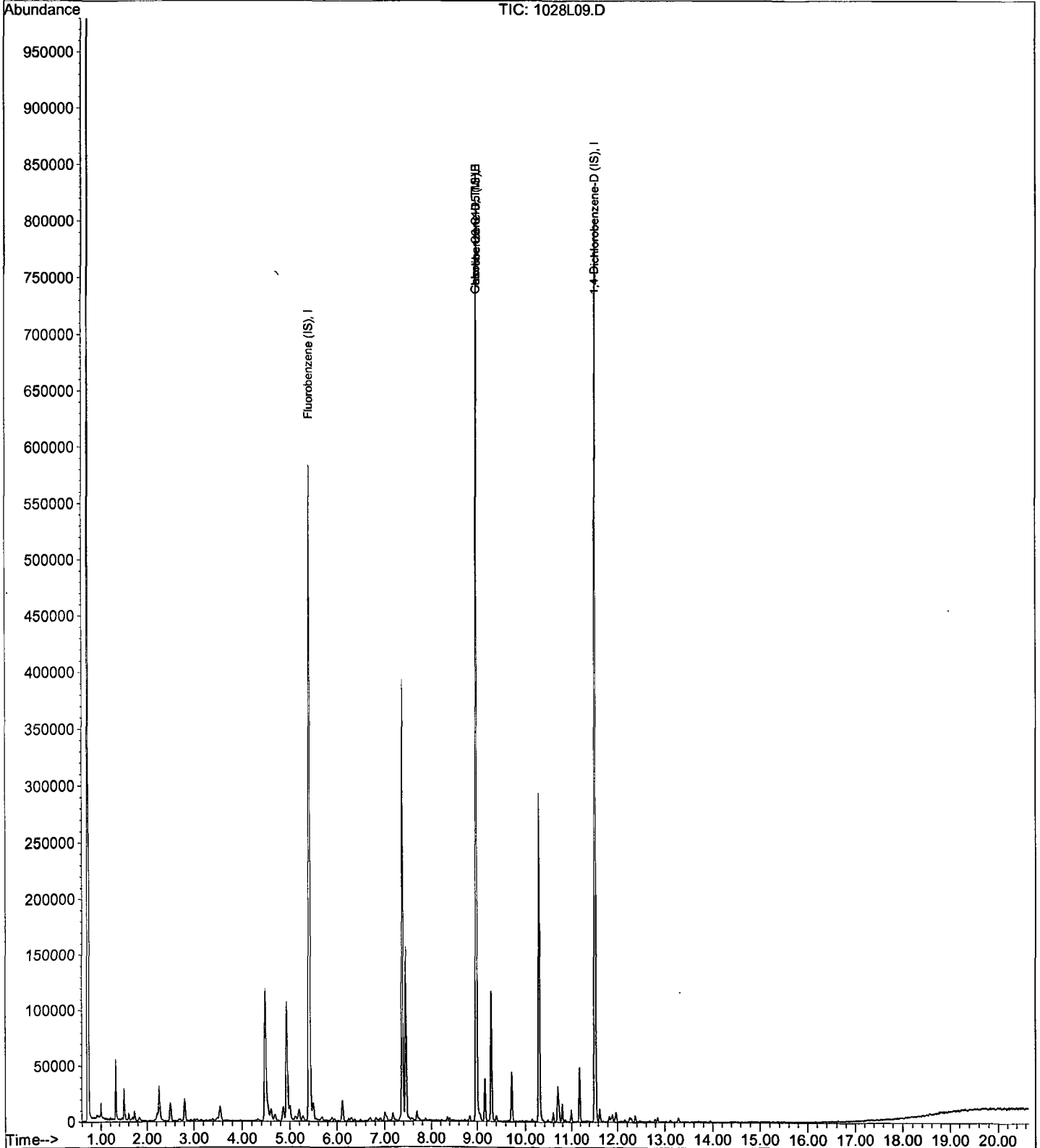
Data File : M:\LOKI\DATA\191023\1028L09.D
Acq On : 28 Oct 19 13:58
Sample : (SS) 300ug/L GAS STD 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:40 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/19

Data File: 1028L24.D

	Compound	MEAN	CCRF	%D	%Drift
1	Fluorobenzene (IS)	ISTD			
2	TMHB Gasoline C6-C10	2.646	0.8792	67	TMHBL 2.9
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
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9					
10					
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35					
36					
37					
38					
39					
40	Average			67.0	

Average

67.0

**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/19

Data File: 1028L24.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	S	Dibromofluoromethane(S)	0.3078	0.3022	1.8	S
3	S	1,2-DCA-D4(S)	0.3307	0.3580	8.2	S
4	I	Chlorobenzene-D5 (IS)	ISTD			I
5	S	Toluene-D8(S)	0.9097	0.9689	6.5	S
6	S	4-Bromofluorobenzene(S)	0.3222	0.3489	8.3	S
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
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39						
40		Average			6.2	

Data File : M:\LOKI\DATA\191023\1028L24.D Vial: 24
 Acq On : 28 Oct 19 21:05 Operator:
 Sample : 191028B CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:50 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	589556	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	791796	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	801390	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6220201m	308.5778	ppb	100

Data File : M:\LOKI\DATA\191023\1028L24.D Vial: 24
 Acq On : 28 Oct 19 21:05 Operator:
 Sample : 191028B CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	284608	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	282752	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	147136	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86009	24.5452	ppb	0.00
Spiked Amount				25.000		
				Recovery =	98.180%	
3) 1,2-DCA-D4(S)	4.95	65	101883	27.0607	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.244%	
5) Toluene-D8(S)	7.38	98	273951	26.6274	ppb	0.00
Spiked Amount				25.000		
				Recovery =	106.508%	
6) 4-Bromofluorobenzene(S)	10.28	95	98641	27.0685	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.276%	

Target Compounds Qvalue

Quantitation Report

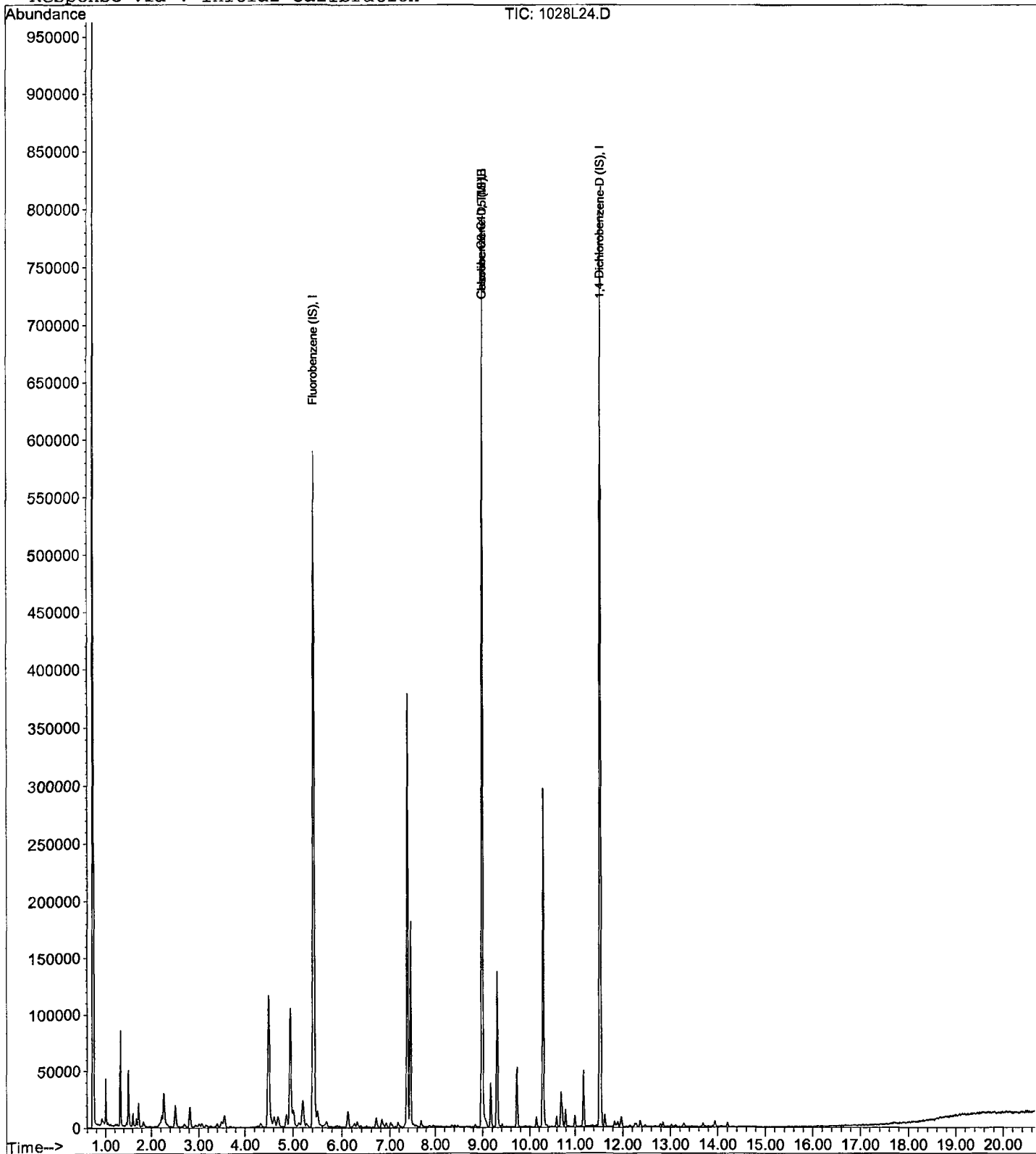
Data File : M:\LOKI\DATA\191023\1028L24.D
Acq On : 28 Oct 19 21:05
Sample : 191028B CCV 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:50 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L46.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	2.646	0.8709	67	TMHBL 0.69
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
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15					
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32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Loki
Initial Cal. Date: 10/27/19
Data File: 1028L46.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	S	Dibromofluoromethane(S)	0.3078	0.3144	2.1	S
3	S	1,2-DCA-D4(S)	0.3307	0.3720	12	S
4	I	Chlorobenzene-D5 (IS)	ISTD			I
5	S	Toluene-D8(S)	0.9097	0.9868	8.5	S
6	S	4-Bromofluorobenzene(S)	0.3222	0.3523	9.3	S
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
8						
9						
10						
11						
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15						
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36						
37						
38						
39						
40		Average			8.0	

Data File : M:\LOKI\DATA\191023\1028L46.D Vial: 46
 Acq On : 29 Oct 19 7:30 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:54 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	577892	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	774368	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	757604	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6039506m	297.9435	ppb	100.

Data File : M:\LOKI\DATA\191023\1028L46.D Vial: 46
 Acq On : 29 Oct 19 7:30 Operator:
 Sample : Ending CCV 300ug/L 10/28/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277248	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274368	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	139712	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87158	25.5334	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.132%	
3) 1,2-DCA-D4(S)	4.95	65	103138	28.1212	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.484%	
5) Toluene-D8(S)	7.38	98	270743	27.1197	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.480%	
6) 4-Bromofluorobenzene(S)	10.28	95	96660	27.3354	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.340%	

Target Compounds Qvalue

Quantitation Report

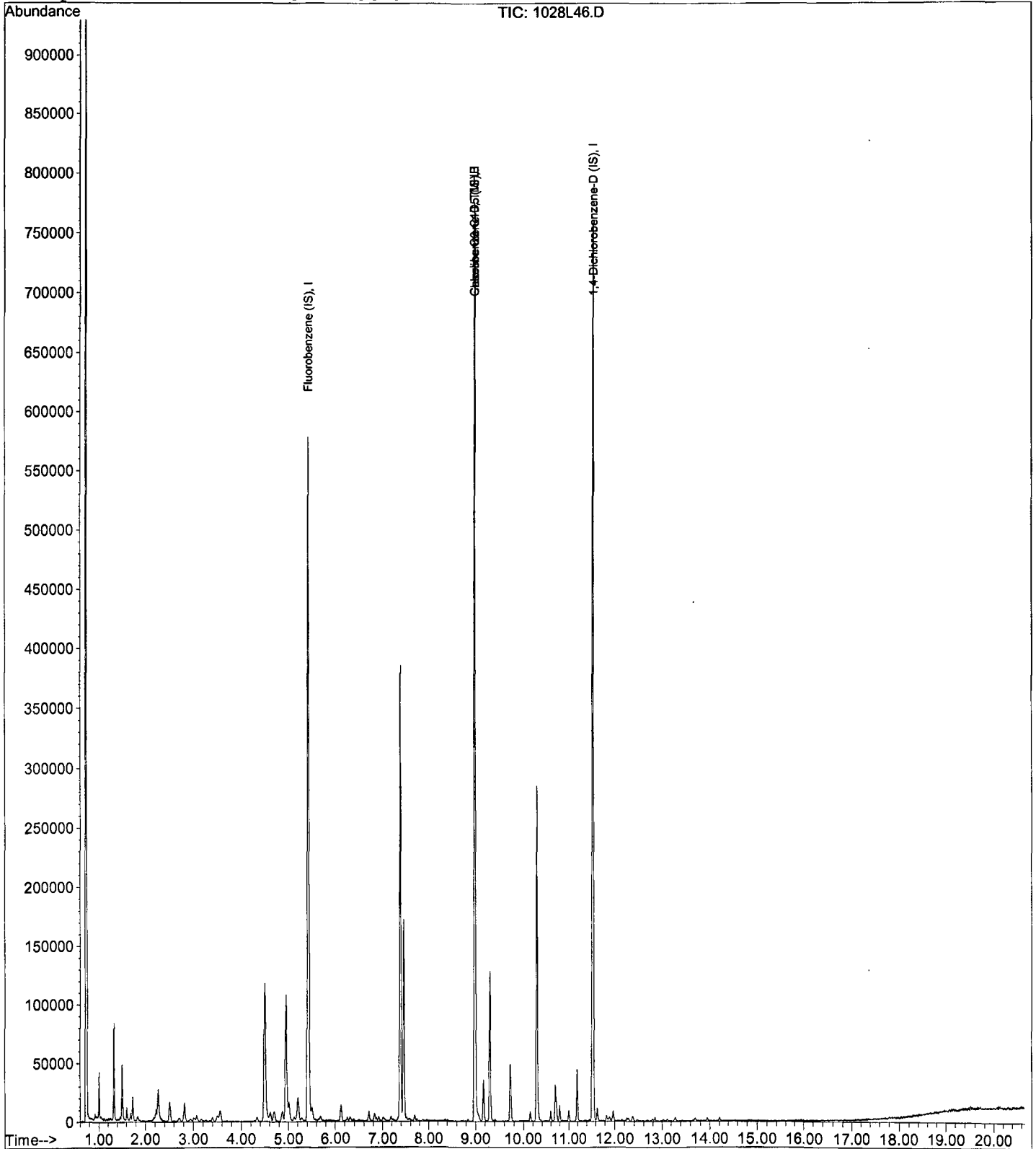
Data File : M:\LOKI\DATA\191023\1028L46.D
Acq On : 29 Oct 19 7:30
Sample : Ending CCV 300ug/L 10/28/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 46
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:54 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1030L21.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	2.646	0.8711	67	TMHBL 0.59
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
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26					
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29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/19

Data File: 1030L21.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	S	Dibromofluoromethane(S)	0.3078	0.3138	2.0	S
3	S	1,2-DCA-D4(S)	0.3307	0.3633	9.8	S
4	I	Chlorobenzene-D5 (IS)	ISTD			I
5	S	Toluene-D8(S)	0.9097	0.9880	8.6	S
6	S	4-Bromofluorobenzene(S)	0.3222	0.3389	5.2	S
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
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38						
39						
40						

Average

6.4

Data File : M:\LOKI\DATA\191023\1030L21.D Vial: 21
 Acq On : 30 Oct 19 23:25 Operator:
 Sample : 191030 CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	573553	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	770969	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	741300	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5995738m	298.2369	ppb	100

Data File : M:\LOKI\DATA\191023\1030L21.D
 Acq On : 30 Oct 19 23:25
 Sample : 191030 CCV 300ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 21
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	275008	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274752	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	135552	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	86309	25.4906	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.964%	
3) 1,2-DCA-D4(S)	4.95	65	99907	27.4621	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.848%	
5) Toluene-D8(S)	7.38	98	271442	27.1517	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.608%	
6) 4-Bromofluorobenzene(S)	10.29	95	93127	26.2995	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.196%	

Target Compounds

Qvalue

Quantitation Report

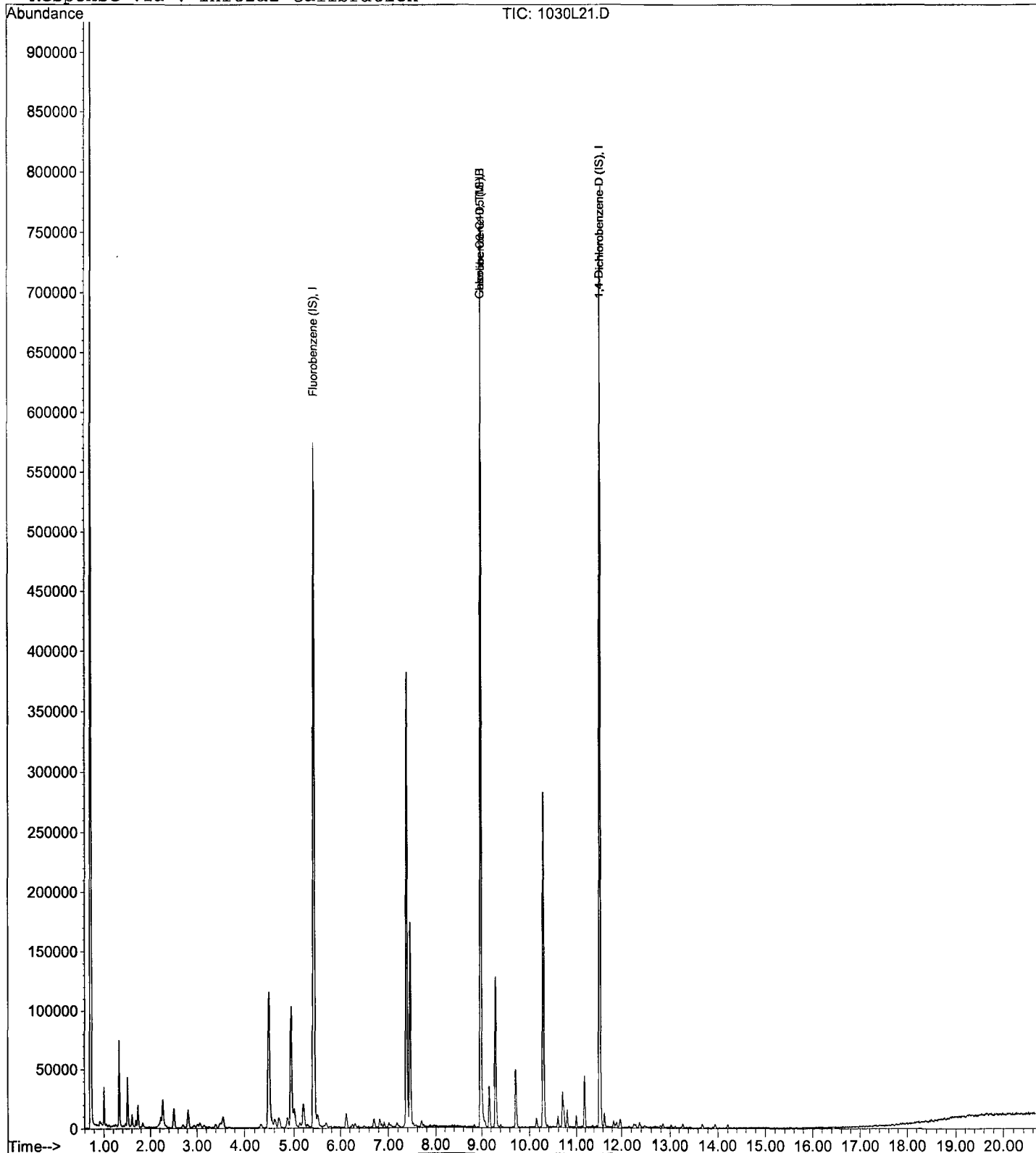
Data File : M:\LOKI\DATA\191023\1030L21.D
Acq On : 30 Oct 19 23:25
Sample : 191030 CCV 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/19

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/19

Data File: 1030L43.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TMHB Gasoline C6-C10	2.646	0.8556	68	TMHBL 7.2
3	I Chlorobenzene-D5 (IS)	ISTD			I
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
5					
6					
7					
8					
9					
10					
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35					
36					
37					
38					
39					
40	Average			68.0	

**VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS**

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/31/19
Instrument: Loki
Initial Cal. Date: 10/23/19
Data File: 1030L43.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	S Dibromofluoromethane(S)	0.3078	0.3076	0.06	S
3	S 1,2-DCA-D4(S)	0.3307	0.3625	9.6	S
4	I Chlorobenzene-D5 (IS)	ISTD			I
5	S Toluene-D8(S)	0.9097	0.9739	7.1	S
6	S 4-Bromofluorobenzene(S)	0.3222	0.3486	8.2	S
7	I 1,4-Dichlorobenzene-D (IS)	ISTD			I
8					
9					
10					
11					
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28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			6.2	

Data File : M:\LOKI\DATA\191023\1030L43.D Vial: 43
 Acq On : 31 Oct 19 9:49 Operator:
 Sample : Ending CCV 300ug/L 10/29/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 9:16 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	584993	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	796628	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	803304	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6005915m	278.2931	ppb	100

Data File : M:\LOKI\DATA\191023\1030L43.D Vial: 43
 Acq On : 31 Oct 19 9:49 Operator:
 Sample : Ending CCV 300ug/L 10/29/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 9:16 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	282432	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	286656	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	146560	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86883	24.9857	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.944%	
3) 1,2-DCA-D4(S)	4.95	65	102394	27.4059	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.624%	
5) Toluene-D8(S)	7.38	98	279170	26.7651	ppb	0.00
Spiked Amount				25.000		
					Recovery = 107.060%	
6) 4-Bromofluorobenzene(S)	10.28	95	99920	27.0461	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.184%	

Target Compounds Qvalue

Quantitation Report

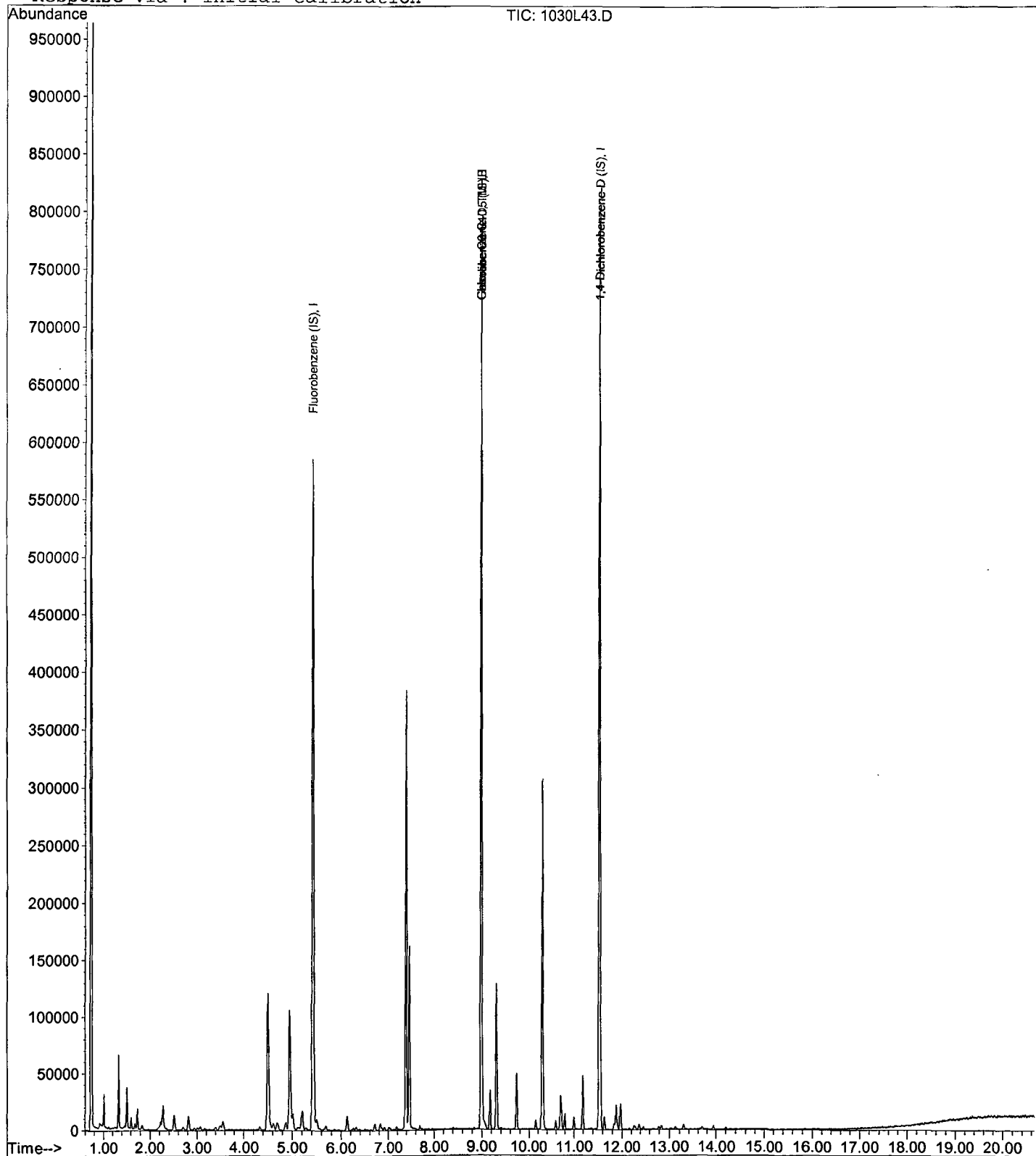
Data File : M:\LOKI\DATA\191023\1030L43.D
Acq On : 31 Oct 19 9:49
Sample : Ending CCV 300ug/L 10/29/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 43
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 9:16 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LOKI\DATA\191023\1028L28.D Vial: 28
 Acq On : 28 Oct 19 22:59 Operator:
 Sample : BA01774W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	577548	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	784048	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	737014	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L28.D
 Acq On : 28 Oct 19 22:59
 Sample : BA01774W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 28
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277632	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	279616	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	138112	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86608	25.3372	ppb	0.00
Spiked Amount				25.000		
					Recovery =	101.348%
3) 1,2-DCA-D4(S)	4.95	65	99818	27.1784	ppb	0.00
Spiked Amount				25.000		
					Recovery =	108.712%
5) Toluene-D8(S)	7.38	98	262174	25.7685	ppb	0.00
Spiked Amount				25.000		
					Recovery =	103.076%
6) 4-Bromofluorobenzene(S)	10.28	95	92339	25.6233	ppb	0.00
Spiked Amount				25.000		
					Recovery =	102.492%

Target Compounds Qvalue

Quantitation Report

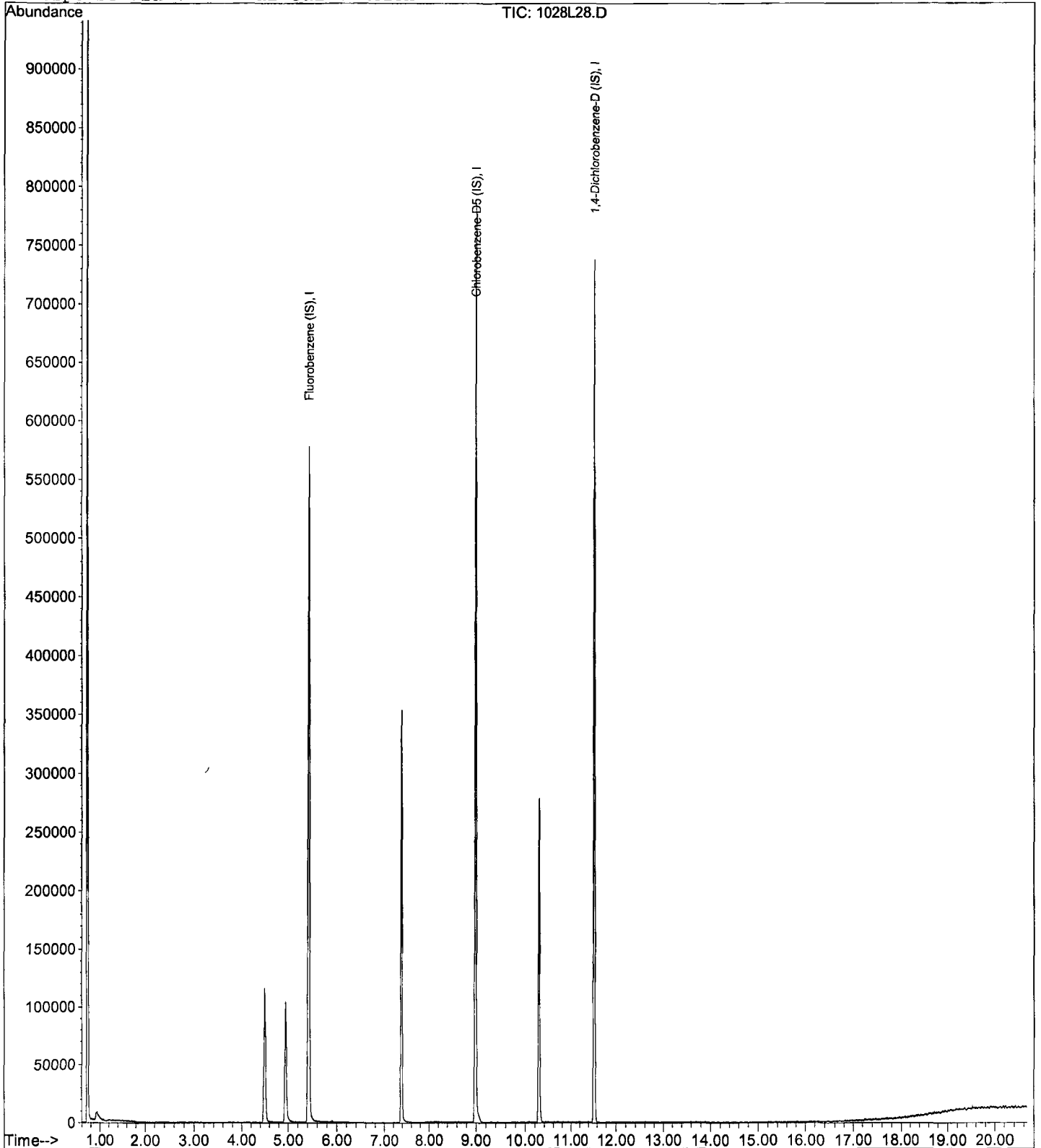
Data File : M:\LOKI\DATA\191023\1028L28.D
Acq On : 28 Oct 19 22:59
Sample : BA01774W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L44.D Vial: 44
 Acq On : 29 Oct 19 6:33 Operator:
 Sample : BA01775W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	547523	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	728510	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	715336	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L44.D
 Acq On : 29 Oct 19 6:33
 Sample : BA01775W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 44
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	263040	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	261824	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	132160	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	83640	25.8263	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.304%	
3) 1,2-DCA-D4(S)	4.95	65	95191	27.3563	ppb	0.00
Spiked Amount				25.000		
					Recovery = 109.424%	
5) Toluene-D8(S)	7.38	98	249214	26.1592	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.636%	
6) 4-Bromofluorobenzene(S)	10.28	95	82873	24.5593	ppb	0.00
Spiked Amount				25.000		
					Recovery = 98.236%	

Target Compounds Qvalue

Quantitation Report

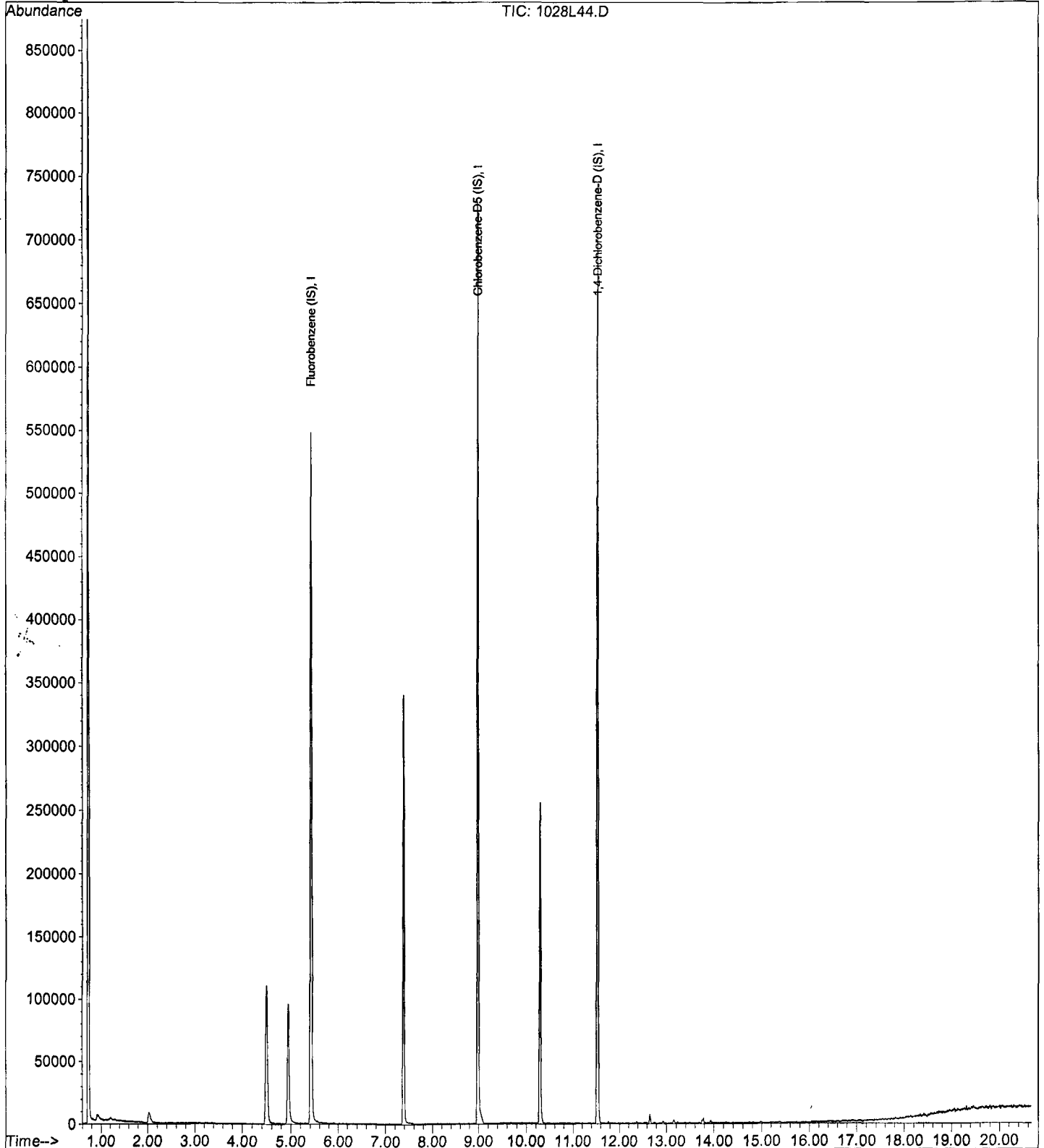
Data File : M:\LOKI\DATA\191023\1028L44.D
Acq On : 29 Oct 19 6:33
Sample : BA01775W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 44
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L29.D Vial: 29
 Acq On : 28 Oct 19 23:27 Operator:
 Sample : BA01776W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	585940	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	791968	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	740781	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L29.D Vial: 29
 Acq On : 28 Oct 19 23:27 Operator:
 Sample : BA01776W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283840	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	283904	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	136064	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	88683	25.3768	ppb	0.00
Spiked Amount 25.000			Recovery = 101.508%			
3) 1,2-DCA-D4(S)	4.95	65	102019	27.1701	ppb	0.00
Spiked Amount 25.000			Recovery = 108.680%			
5) Toluene-D8(S)	7.38	98	268220	25.9646	ppb	0.00
Spiked Amount 25.000			Recovery = 103.860%			
6) 4-Bromofluorobenzene(S)	10.29	95	90844	24.8278	ppb	0.00
Spiked Amount 25.000			Recovery = 99.312%			

Target Compounds Qvalue

Quantitation Report

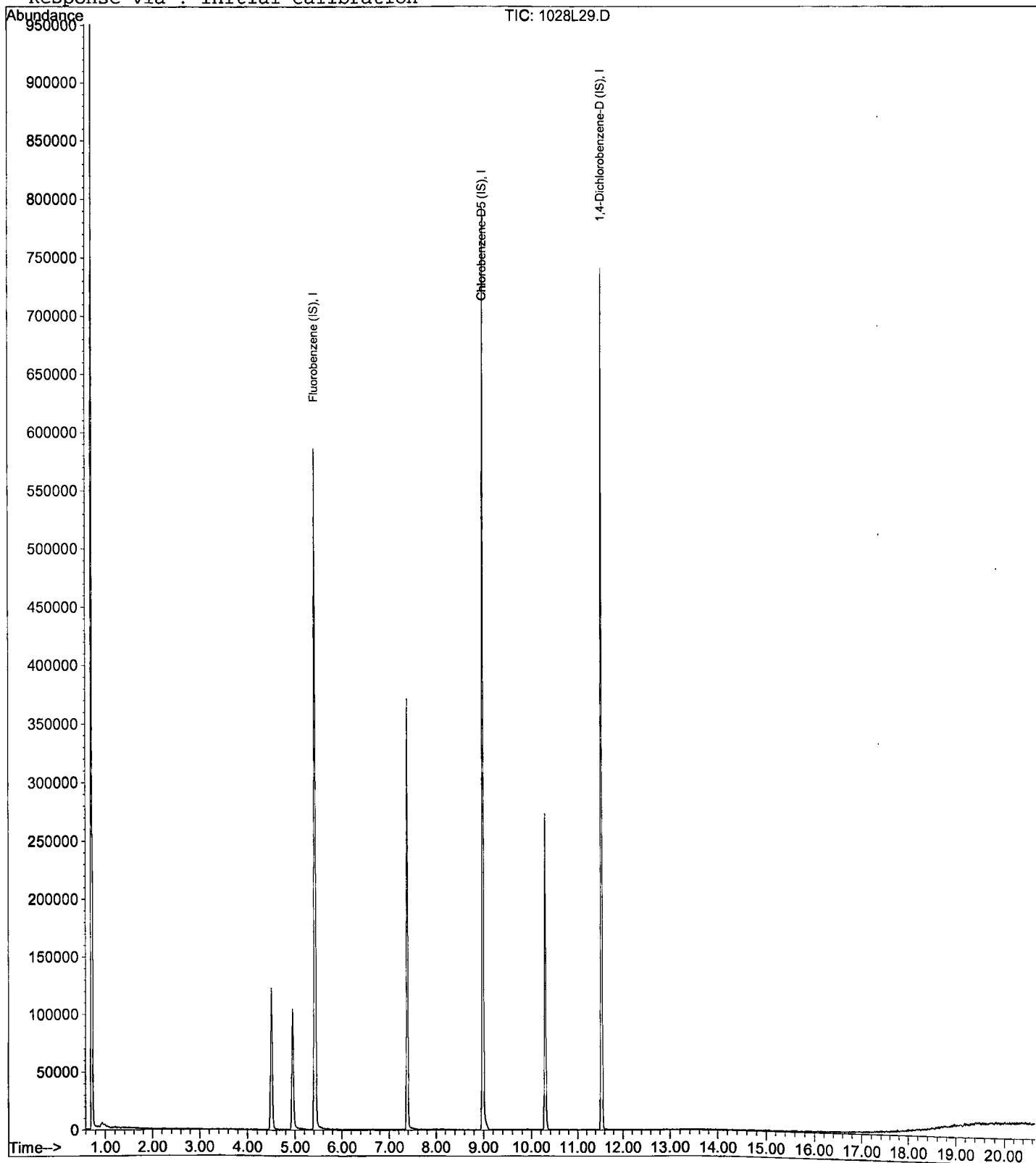
Data File : M:\LOKI\DATA\191023\1028L29.D
Acq On : 28 Oct 19 23:27
Sample : BA01776W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 29
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L27.D Vial: 27
 Acq On : 31 Oct 19 2:15 Operator:
 Sample : BA01777W03 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:41 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	541263	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	723780	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	683101	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1030L27.D
 Acq On : 31 Oct 19 2:15
 Sample : BA01777W03
 Misc : IS&S:10/7/19, 10/23/19

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	260864	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	256640	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	126784	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	82293	25.6223	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.488%	
3) 1,2-DCA-D4(S)	4.94	65	97209	28.1693	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.676%	
5) Toluene-D8(S)	7.38	98	248561	26.6177	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.472%	
6) 4-Bromofluorobenzene(S)	10.29	95	86122	26.0377	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.152%	

Target Compounds

Qvalue

Quantitation Report

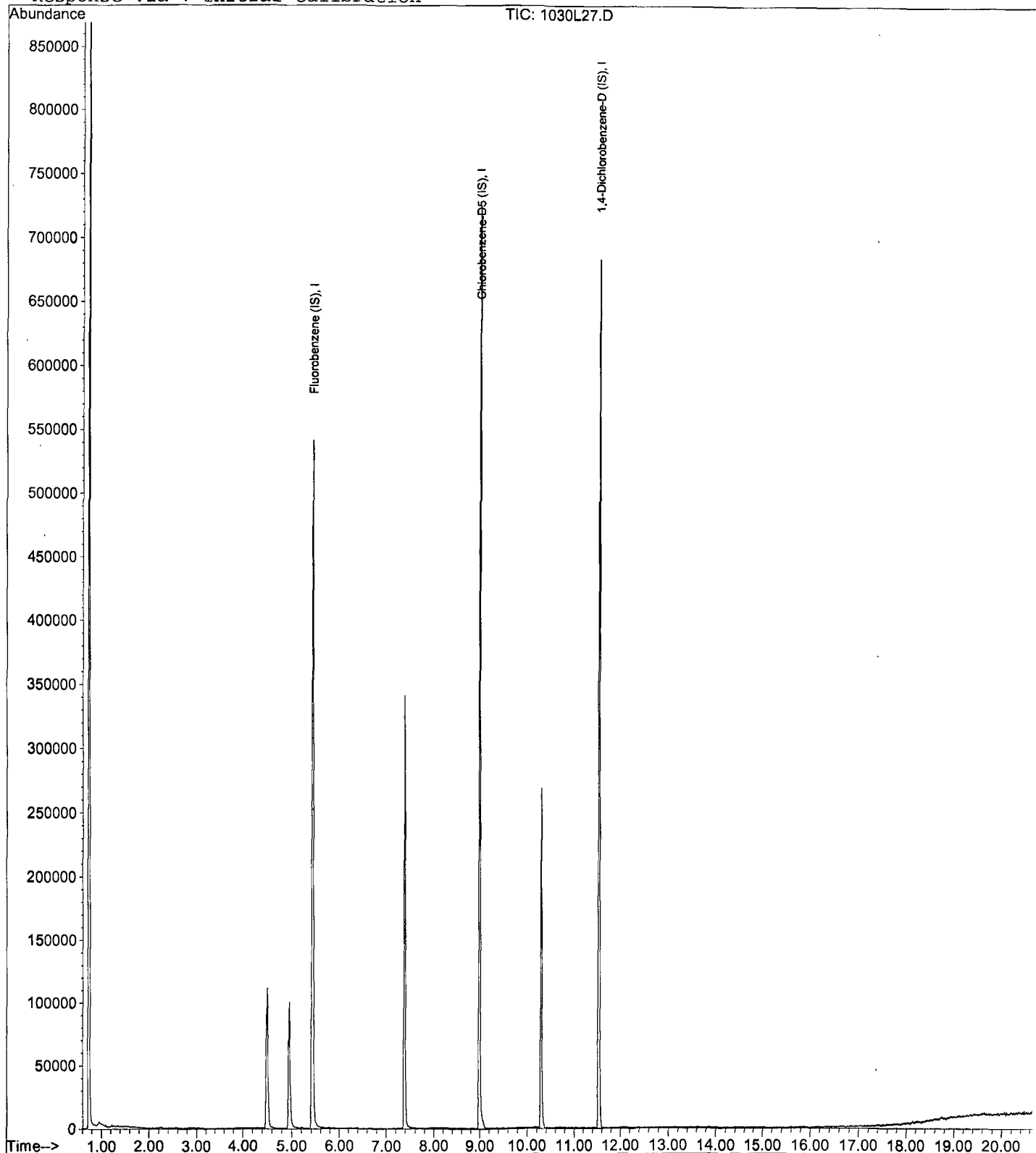
Data File : M:\LOKI\DATA\191023\1030L27.D
Acq On : 31 Oct 19 2:15
Sample : BA01777W03
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L30.D Vial: 30
 Acq On : 28 Oct 19 23:55 Operator:
 Sample : BA01778W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	570087	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	746853	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	714241	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L30.D
 Acq On : 28 Oct 19 23:55
 Sample : BA01778W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 30
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	277568	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	267584	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	135232	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86233	25.2333	ppb	0.00
Spiked Amount				25.000		
						Recovery = 100.932%
3) 1,2-DCA-D4(S)	4.94	65	98738	26.8905	ppb	0.00
Spiked Amount				25.000		
						Recovery = 107.560%
5) Toluene-D8(S)	7.38	98	258954	26.5965	ppb	0.00
Spiked Amount				25.000		
						Recovery = 106.384%
6) 4-Bromofluorobenzene(S)	10.29	95	90047	26.1109	ppb	0.00
Spiked Amount				25.000		
						Recovery = 104.444%

Target Compounds Qvalue

Quantitation Report

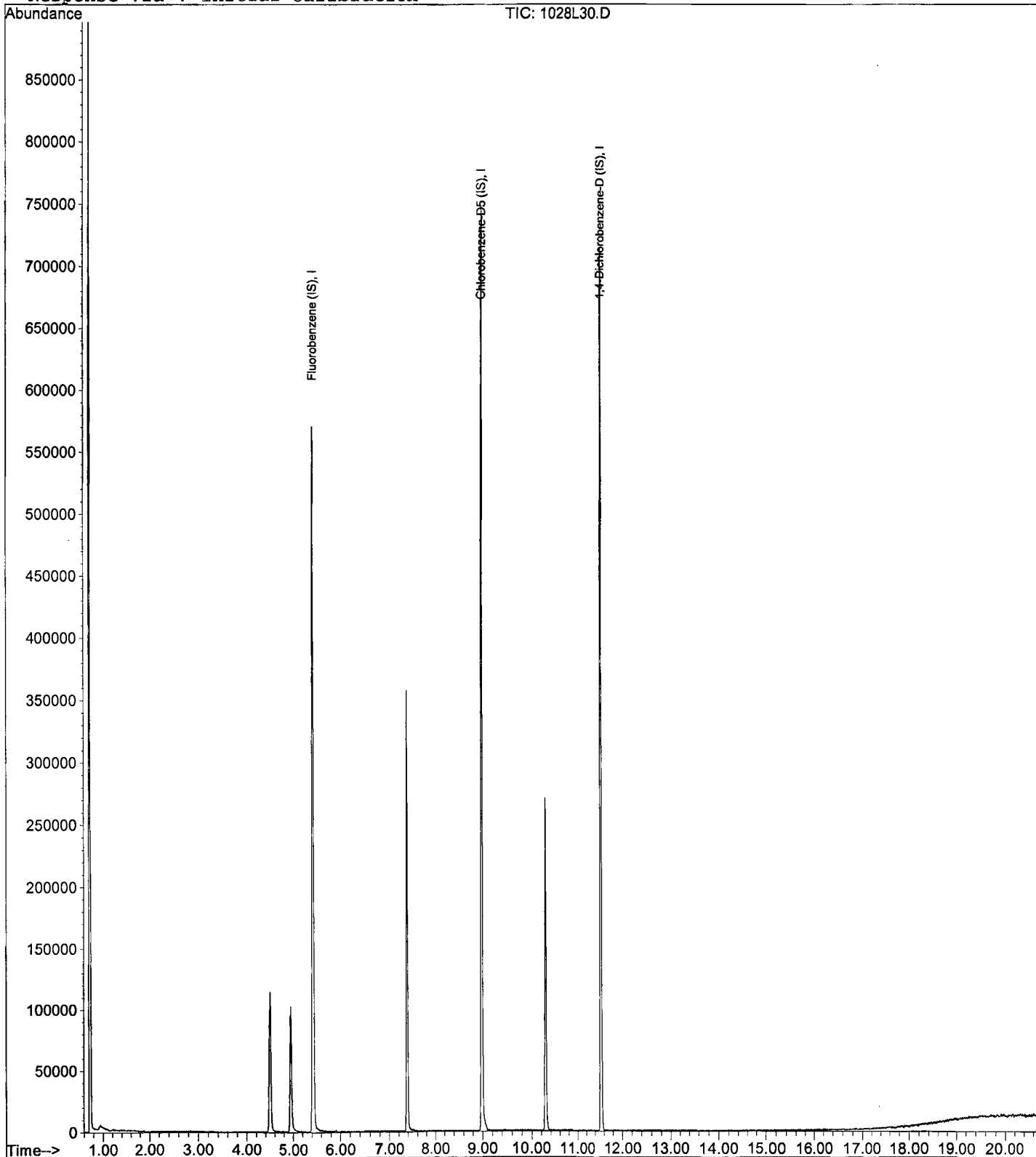
Data File : M:\LOKI\DATA\191023\1028L30.D
Acq On : 28 Oct 19 23:55
Sample : BA01778W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 30
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T34.D Vial: 34
 Acq On : 29 Oct 19 7:18 Operator:
 Sample : BA01779W01 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 31 12:41 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	290606	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	369080	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	378557	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T191028\1028T34.D
 Acq On : 29 Oct 19 7:18
 Sample : BA01779W01
 Misc : IS&S 9/23/19

Vial: 34
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 31 12:41 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	139968	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	130488	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	68216	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	5.79	111	66372	24.6009	ppb	0.00
Spiked Amount 25.000						
					Recovery = 98.404%	
3) 1,2-DCA-D4(S)	6.17	65	75495	24.9908	ppb	0.00
Spiked Amount 25.000						
					Recovery = 99.964%	
5) Toluene-D8(S)	8.30	98	231963	23.8042	ppb	0.00
Spiked Amount 25.000						
					Recovery = 95.216%	
6) 4-Bromofluorobenzene(S)	10.92	174	89940	23.3142	ppb	0.00
Spiked Amount 25.000						
					Recovery = 93.256%	

Target Compounds Qvalue

Quantitation Report

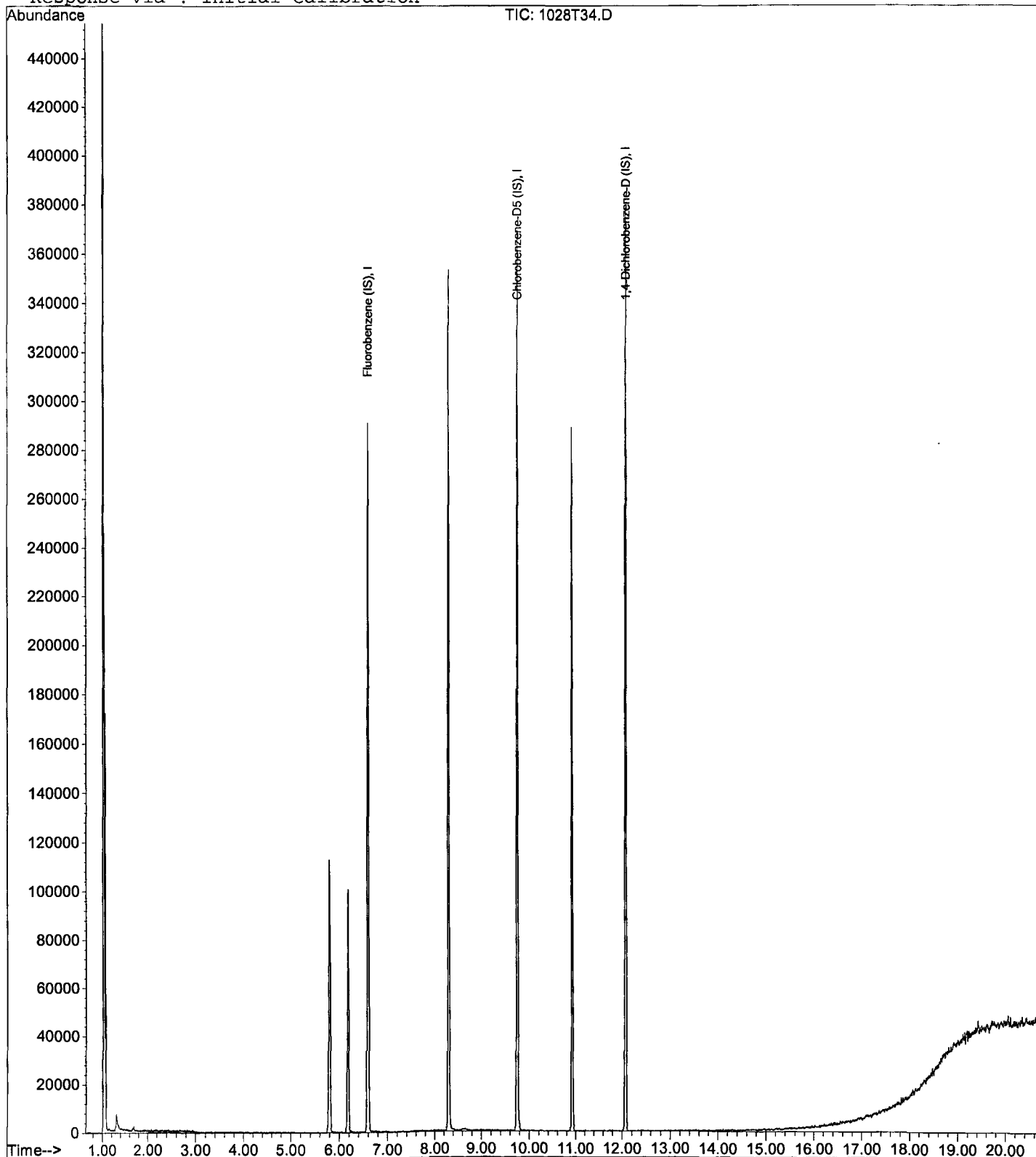
Data File : M:\THOR\DATA\T191028\1028T34.D
Acq On : 29 Oct 19 7:18
Sample : BA01779W01
Misc : IS&S 9/23/19

Vial: 34
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 31 12:41 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L40.D Vial: 40
 Acq On : 29 Oct 19 4:39 Operator:
 Sample : BA01780W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	547079	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	703771	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	672792	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L40.D Vial: 40
 Acq On : 29 Oct 19 4:39 Operator:
 Sample : BA01780W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	266752	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	254528	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	124800	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	83705	25.4867	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.948%	
3) 1,2-DCA-D4(S)	4.95	65	94171	26.6866	ppb	0.00
Spiked Amount				25.000		
					Recovery = 106.748%	
5) Toluene-D8(S)	7.38	98	251853	27.1940	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.776%	
6) 4-Bromofluorobenzene(S)	10.29	95	82050	25.0124	ppb	0.00
Spiked Amount				25.000		
					Recovery = 100.048%	

Target Compounds Qvalue

Quantitation Report

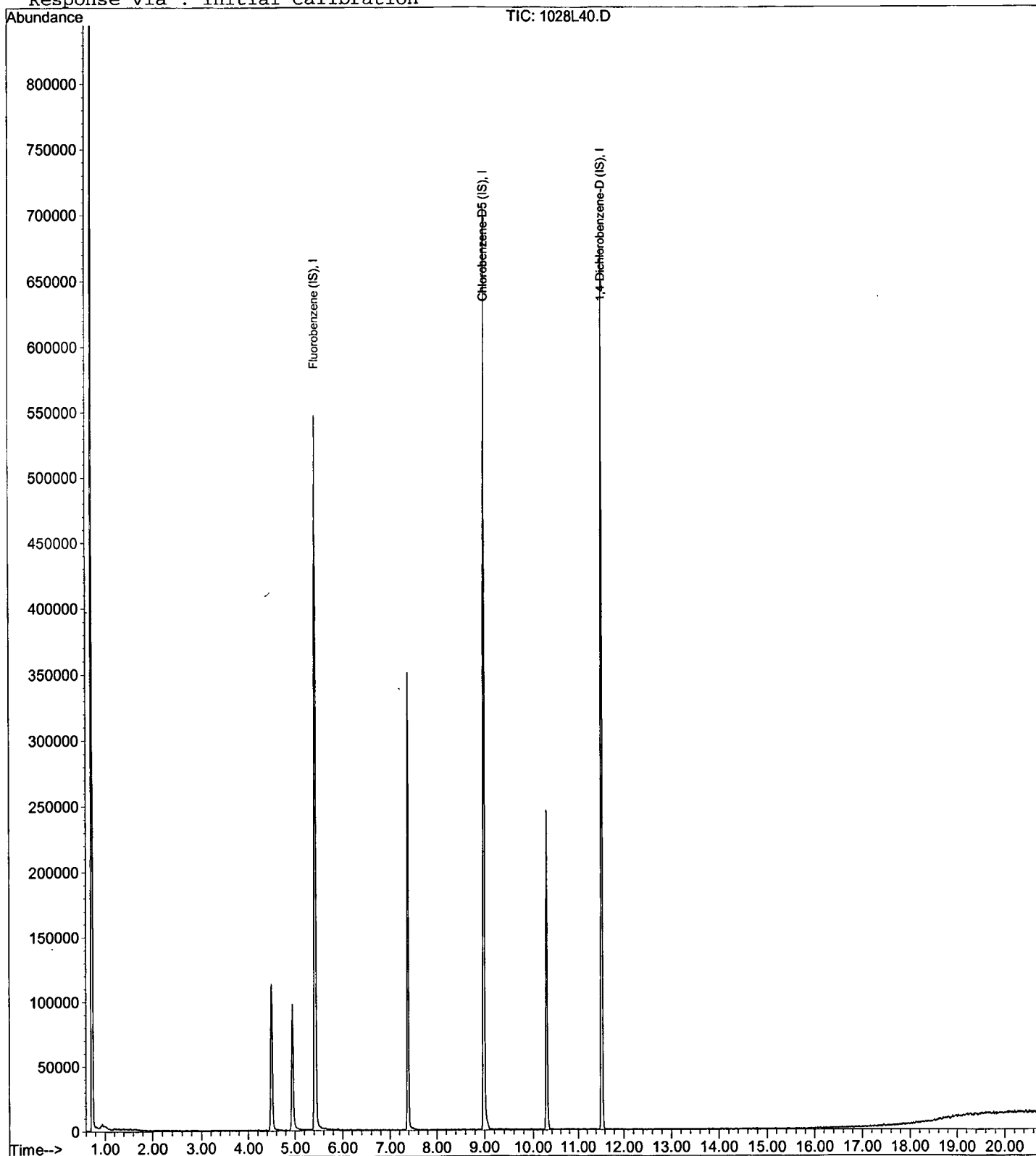
Data File : M:\LOKI\DATA\191023\1028L40.D
Acq On : 29 Oct 19 4:39
Sample : BA01780W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 40
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L41.D Vial: 41
 Acq On : 29 Oct 19 5:08 Operator:
 Sample : BA01781W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	550699	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	755774	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	678505	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L41.D Vial: 41
 Acq On : 29 Oct 19 5:08 Operator:
 Sample : BA01781W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	267456	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	271680	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	125112	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	83222	25.2729	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.092%	
3) 1,2-DCA-D4(S)	4.95	65	98213	27.7588	ppb	0.00
Spiked Amount				25.000		
					Recovery = 111.036%	
5) Toluene-D8(S)	7.38	98	253947	25.6890	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.756%	
6) 4-Bromofluorobenzene(S)	10.29	95	86710	24.7642	ppb	0.00
Spiked Amount				25.000		
					Recovery = 99.056%	

Target Compounds Qvalue

Quantitation Report

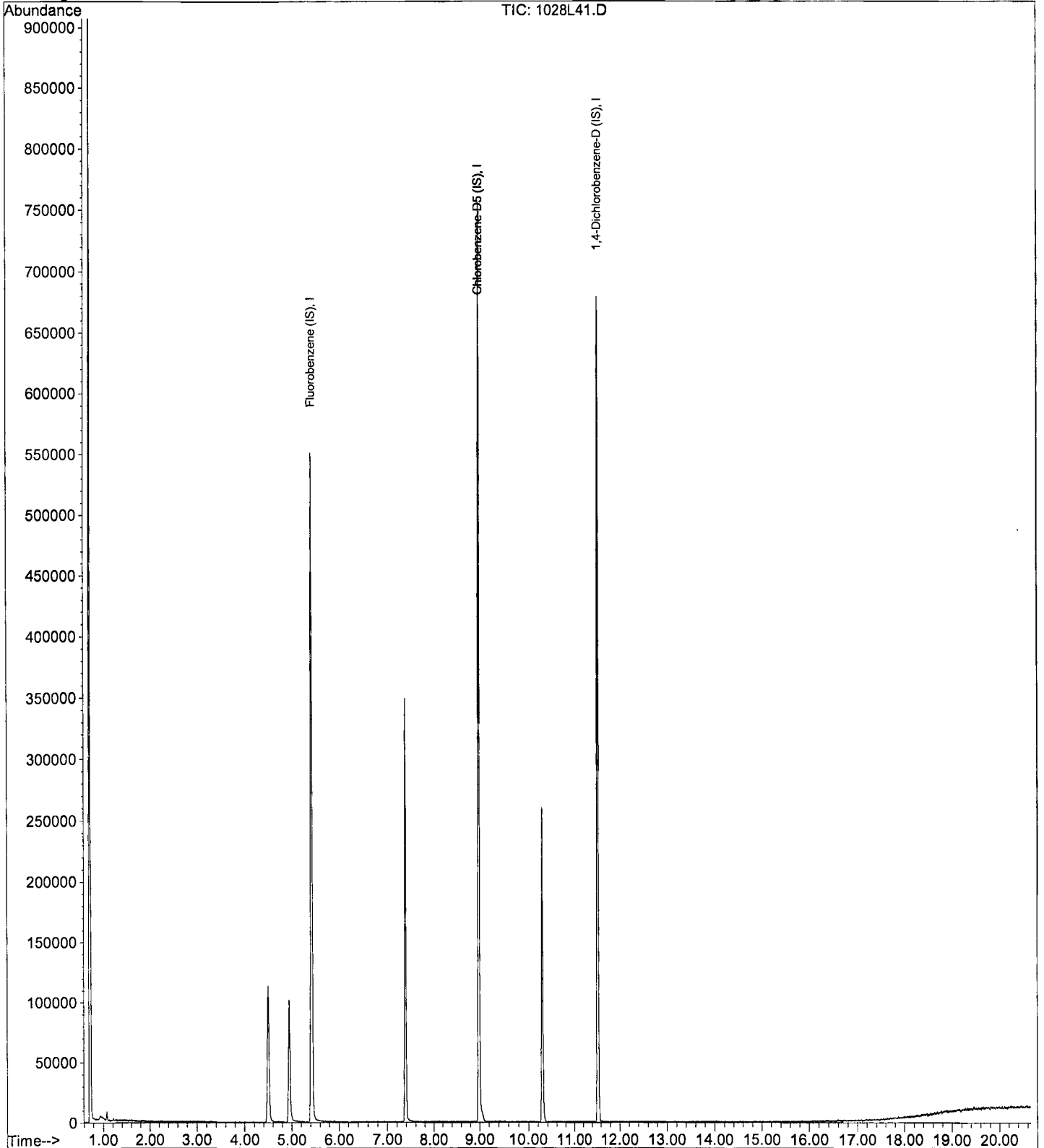
Data File : M:\LOKI\DATA\191023\1028L41.D
Acq On : 29 Oct 19 5:08
Sample : BA01781W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 41
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L42.D Vial: 42
 Acq On : 29 Oct 19 5:36 Operator:
 Sample : BA01782W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	560924	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	743776	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	687854	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L42.D
 Acq On : 29 Oct 19 5:36
 Sample : BA01782W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	268544	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	267136	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	129296	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	86595	26.1907	ppb	0.00
Spiked Amount 25.000			Recovery = 104.764%			
3) 1,2-DCA-D4(S)	4.95	65	97827	27.5377	ppb	0.00
Spiked Amount 25.000			Recovery = 110.152%			
5) Toluene-D8(S)	7.38	98	262246	26.9798	ppb	0.00
Spiked Amount 25.000			Recovery = 107.920%			
6) 4-Bromofluorobenzene(S)	10.28	95	85503	24.8349	ppb	0.00
Spiked Amount 25.000			Recovery = 99.340%			

Target Compounds Qvalue

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

Quantitation Report

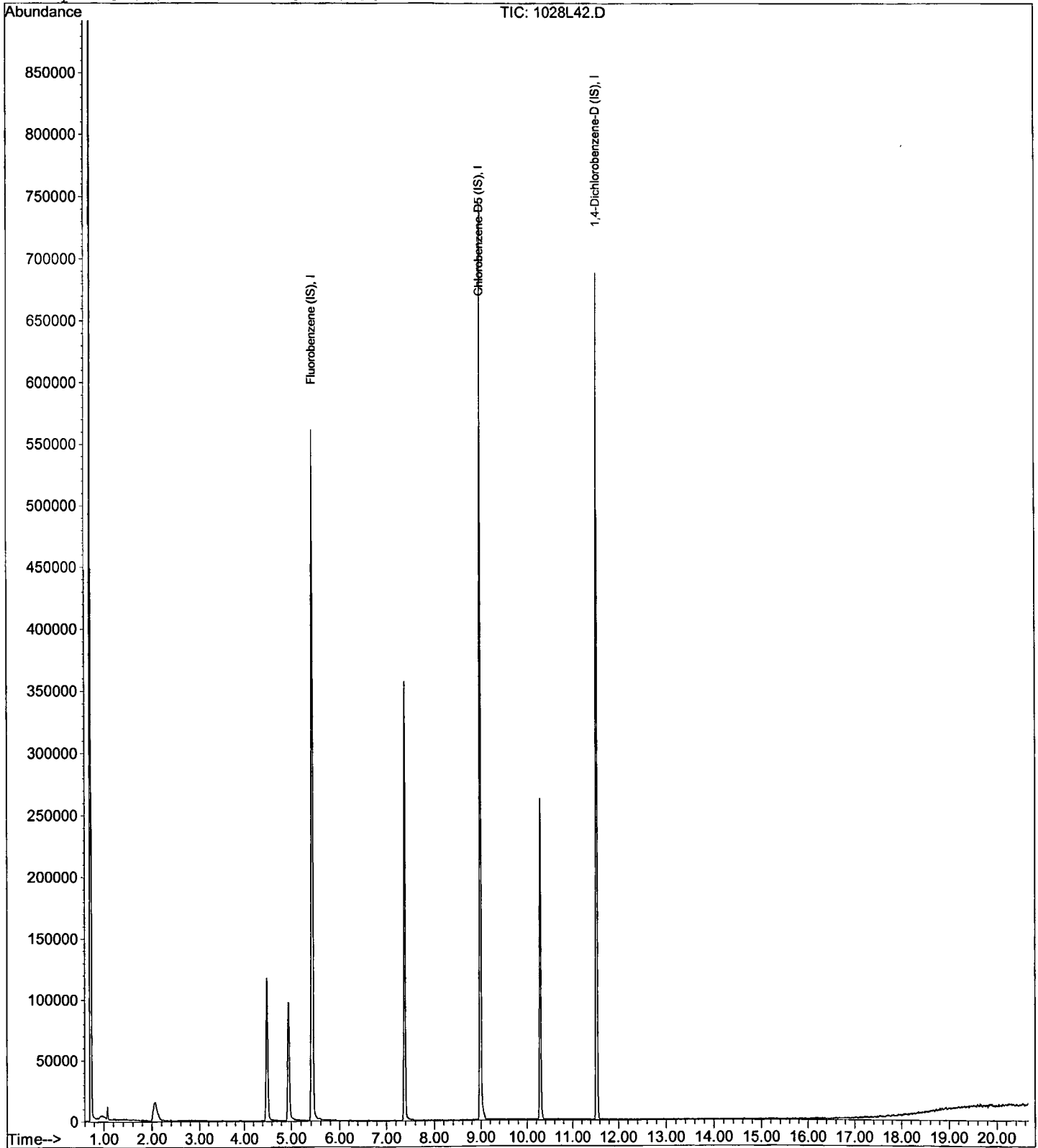
Data File : M:\LOKI\DATA\191023\1028L42.D
Acq On : 29 Oct 19 5:36
Sample : BA01782W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 42
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L31.D Vial: 31
 Acq On : 29 Oct 19 00:24 Operator:
 Sample : BA01783W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	577284	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	766092	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	710488	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L31.D
 Acq On : 29 Oct 19 00:24
 Sample : BA01783W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 31
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	278336	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	273536	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	130544	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	86241	25.1660	ppb	0.00
Spiked Amount				25.000		
					Recovery =	100.664%
3) 1,2-DCA-D4(S)	4.95	65	101907	27.6770	ppb	0.00
Spiked Amount				25.000		
					Recovery =	110.708%
5) Toluene-D8(S)	7.38	98	262895	26.4137	ppb	0.00
Spiked Amount				25.000		
					Recovery =	105.656%
6) 4-Bromofluorobenzene(S)	10.28	95	87597	24.8478	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.392%

Target Compounds

Qvalue

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

Quantitation Report

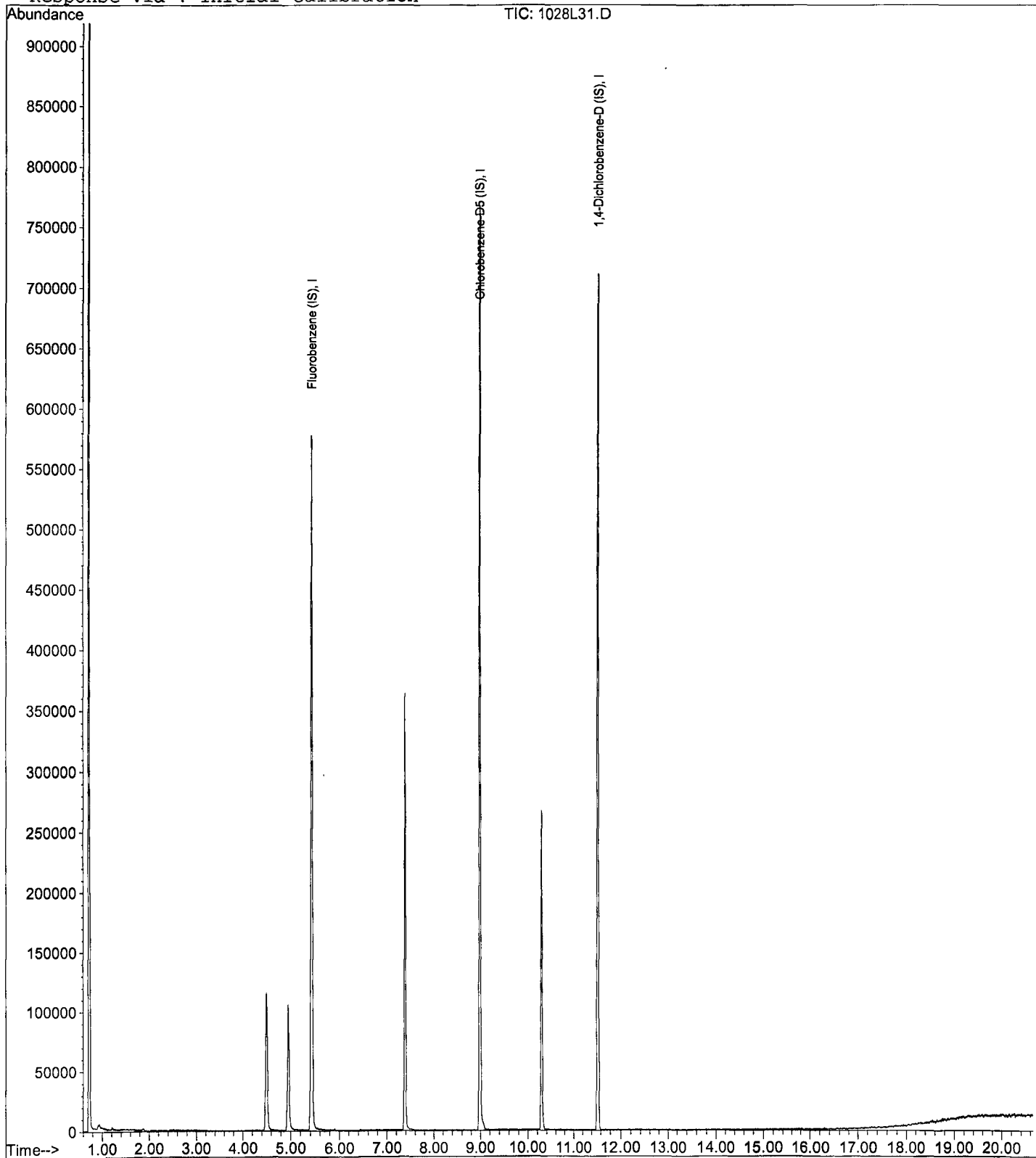
Data File : M:\LOKI\DATA\191023\1028L31.D
Acq On : 29 Oct 19 00:24
Sample : BA01783W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 31
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L43.D Vial: 43
 Acq On : 29 Oct 19 6:05 Operator:
 Sample : BA01784W01 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:52 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	565446	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	746319	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	691784	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L43.D
 Acq On : 29 Oct 19 6:05
 Sample : BA01784W01
 Misc : IS&S:10/7/19, 10/23/19

Vial: 43
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	272896	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	264896	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	128080	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	86949	25.8784	ppb	0.00
Spiked Amount				25.000		
				Recovery = 103.512%		
3) 1,2-DCA-D4(S)	4.95	65	98130	27.1824	ppb	0.00
Spiked Amount				25.000		
				Recovery = 108.728%		
5) Toluene-D8(S)	7.38	98	259478	26.9207	ppb	0.00
Spiked Amount				25.000		
				Recovery = 107.684%		
6) 4-Bromofluorobenzene(S)	10.28	95	84418	24.7271	ppb	0.00
Spiked Amount				25.000		
				Recovery = 98.908%		

Target Compounds

Qvalue

Quantitation Report

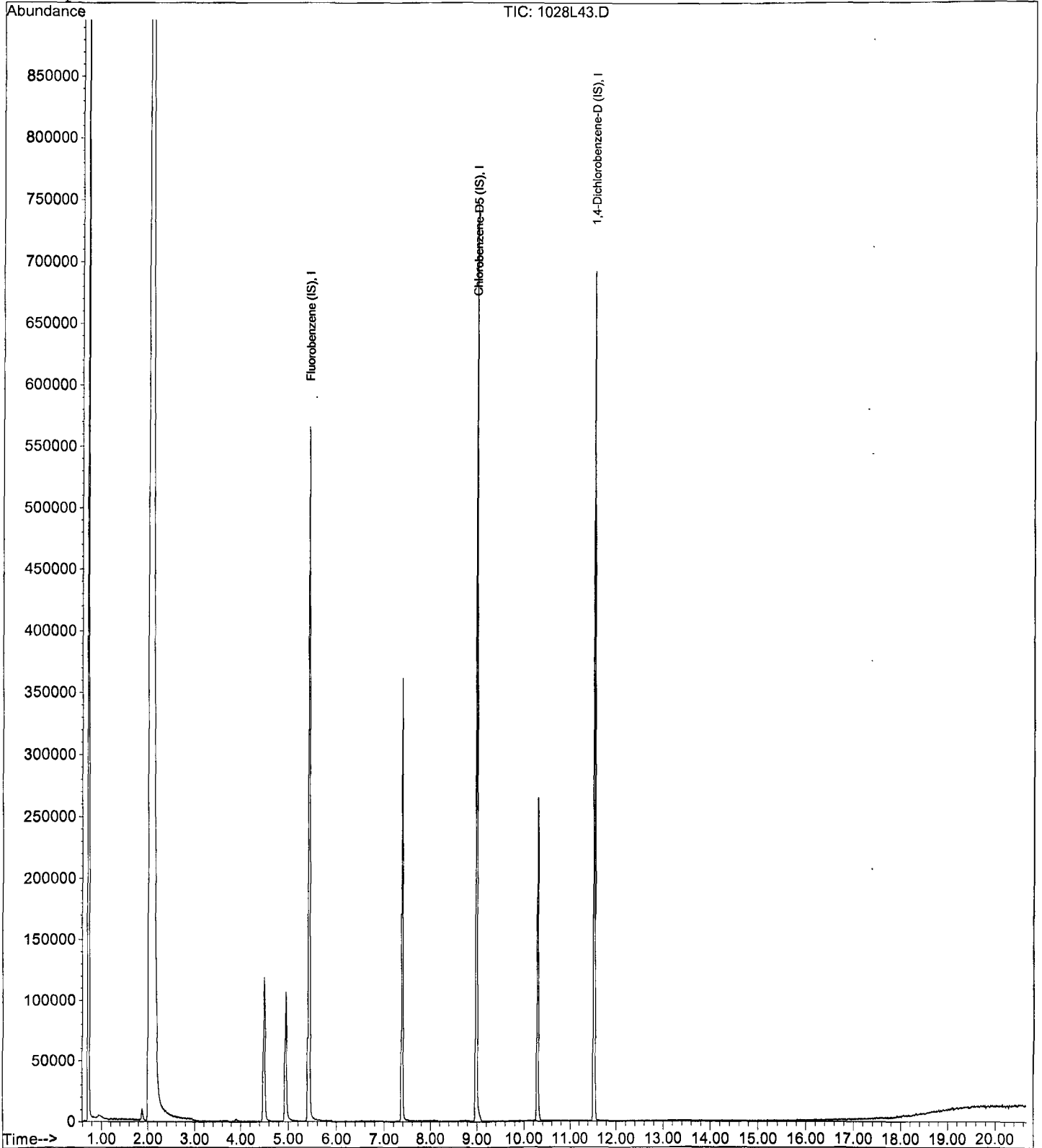
Data File : M:\LOKI\DATA\191023\1028L43.D
Acq On : 29 Oct 19 6:05
Sample : BA01784W01
Misc : IS&S:10/7/19, 10/23/19

Vial: 43
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:52 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T21.D Vial: 21
 Acq On : 29 Oct 19 1:11 Operator:
 Sample : 191028A BLK Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 31 12:40 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	306856	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	376384	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	393312	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\THOR\DATA\T191028\1028T21.D
 Acq On : 29 Oct 19 1:11
 Sample : 191028A BLK
 Misc : IS&S 9/23/19

Vial: 21
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 31 12:39 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	145408	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	132032	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	72064	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	5.79	111	70206	25.0485	ppb	0.00
Spiked Amount				25.000		
					Recovery =	100.192%
3) 1,2-DCA-D4(S)	6.17	65	78702	25.0778	ppb	0.00
Spiked Amount				25.000		
					Recovery =	100.312%
5) Toluene-D8(S)	8.30	98	243731	24.7194	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.876%
6) 4-Bromofluorobenzene(S)	10.92	174	92786	23.7707	ppb	0.00
Spiked Amount				25.000		
					Recovery =	95.084%

Target Compounds

Qvalue

Quantitation Report

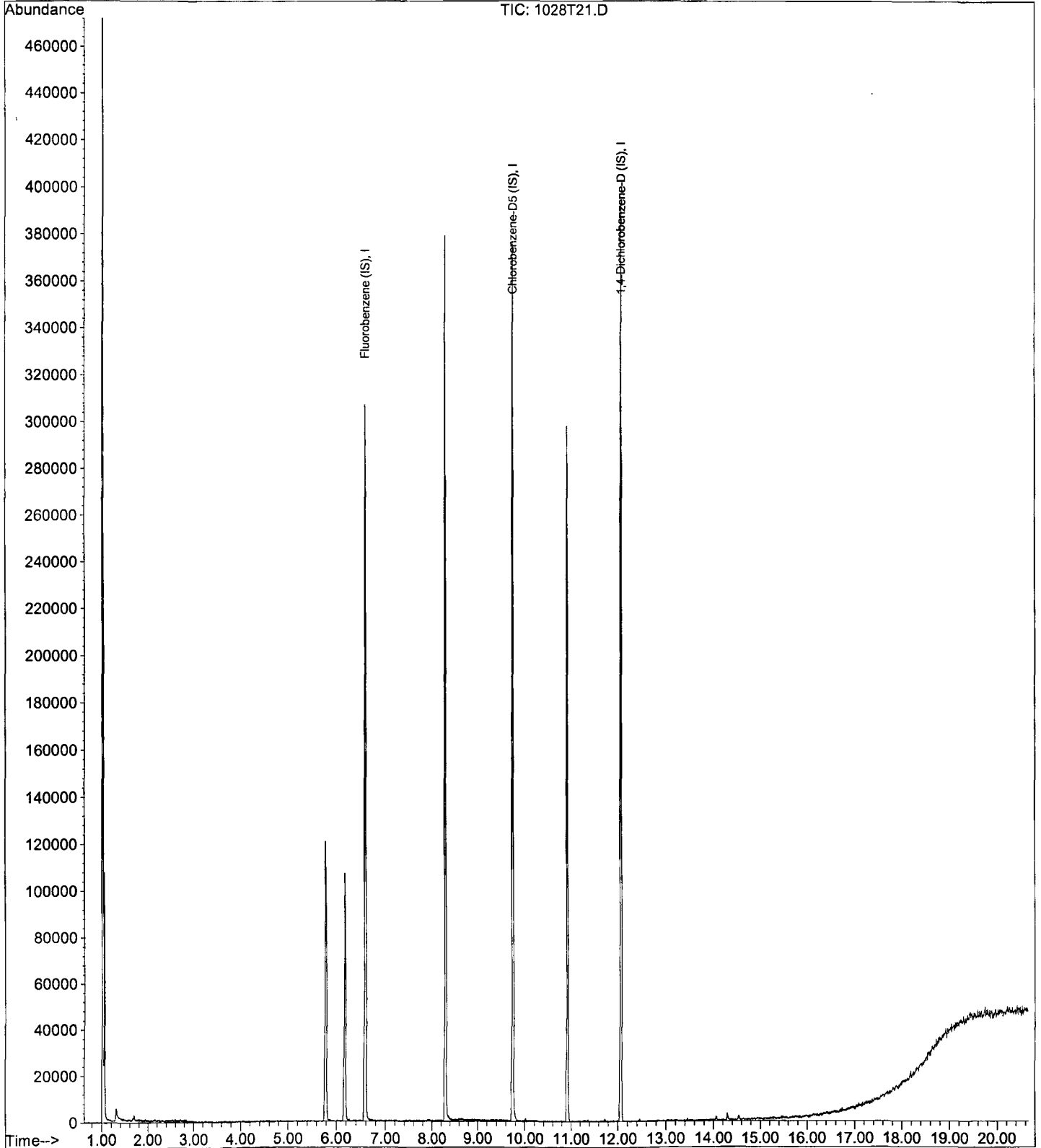
Data File : M:\THOR\DATA\T191028\1028T21.D
Acq On : 29 Oct 19 1:11
Sample : 191028A BLK
Misc : IS&S 9/23/19

Vial: 21
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 31 12:40 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L27.D
 Acq On : 28 Oct 19 22:30
 Sample : 191028B BLK
 Misc : IS&S:10/7/19, 10/23/19

Vial: 27
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	581928	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	774929	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	742797	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1028L27.D Vial: 27
 Acq On : 28 Oct 19 22:30 Operator:
 Sample : 191028B BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283200	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	274752	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	138880	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87049	24.9655	ppb	0.00
Spiked Amount 25.000					Recovery = 99.864%	
3) 1,2-DCA-D4(S)	4.95	65	100947	26.9454	ppb	0.00
Spiked Amount 25.000					Recovery = 107.780%	
5) Toluene-D8(S)	7.38	98	265753	26.5827	ppb	0.00
Spiked Amount 25.000					Recovery = 106.332%	
6) 4-Bromofluorobenzene(S)	10.29	95	90992	25.6966	ppb	0.00
Spiked Amount 25.000					Recovery = 102.788%	

Target Compounds Qvalue

Quantitation Report

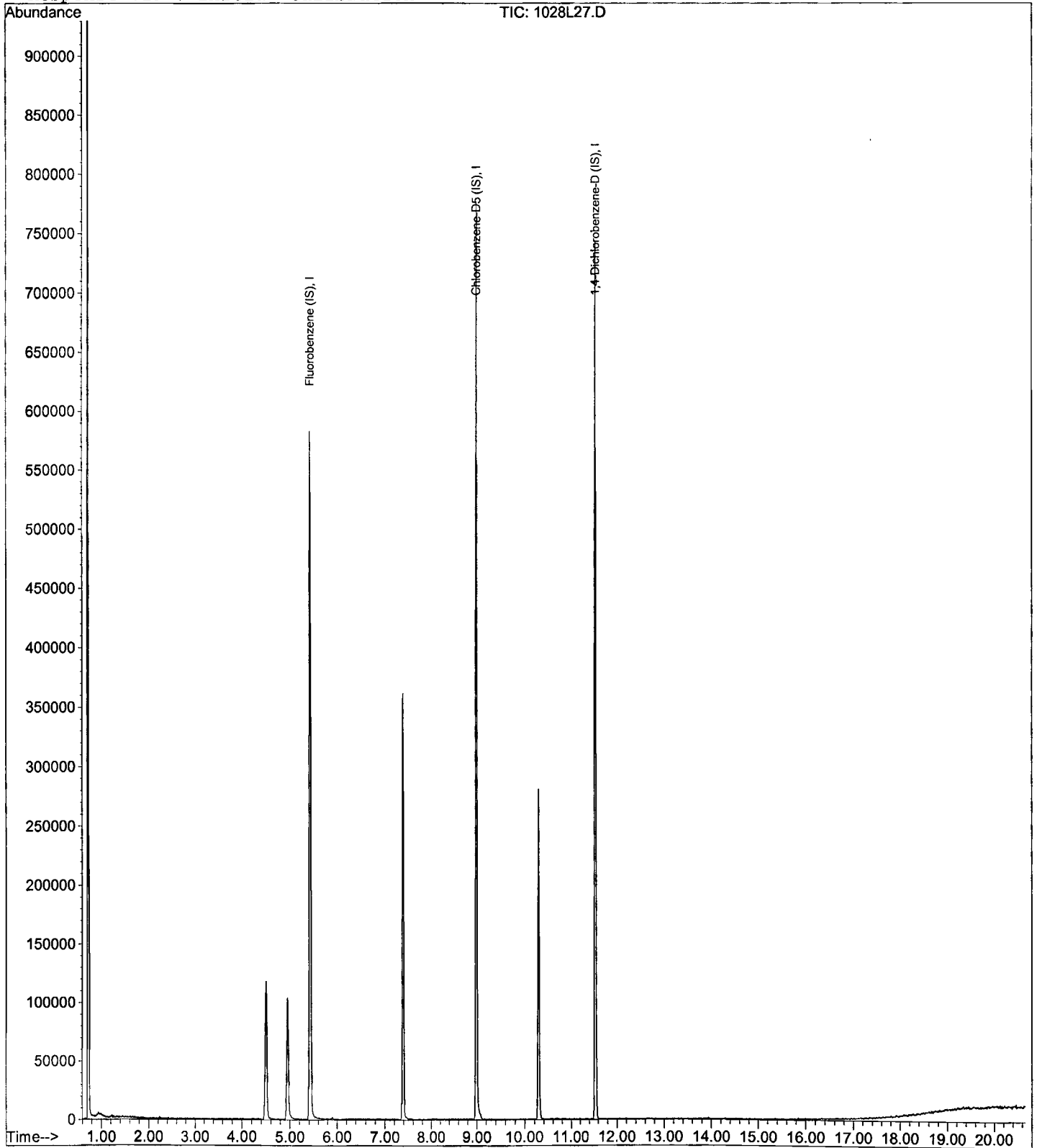
Data File : M:\LOKI\DATA\191023\1028L27.D
Acq On : 28 Oct 19 22:30
Sample : 191028B BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 27
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L24.D Vial: 24
 Acq On : 31 Oct 19 00:50 Operator:
 Sample : 191030 BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:38 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	533845	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	703076	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	676062	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Data File : M:\LOKI\DATA\191023\1030L24.D Vial: 24
 Acq On : 31 Oct 19 00:50 Operator:
 Sample : 191030 BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:38 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	257024	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	249472	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	123784	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	83670	26.4403	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.760%	
3) 1,2-DCA-D4(S)	4.95	65	95429	28.0666	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.268%	
5) Toluene-D8(S)	7.38	98	251875	27.7476	ppb	0.00
Spiked Amount				25.000		
					Recovery = 110.992%	
6) 4-Bromofluorobenzene(S)	10.28	95	84431	26.2599	ppb	0.00
Spiked Amount				25.000		
					Recovery = 105.040%	

Target Compounds Qvalue

Quantitation Report

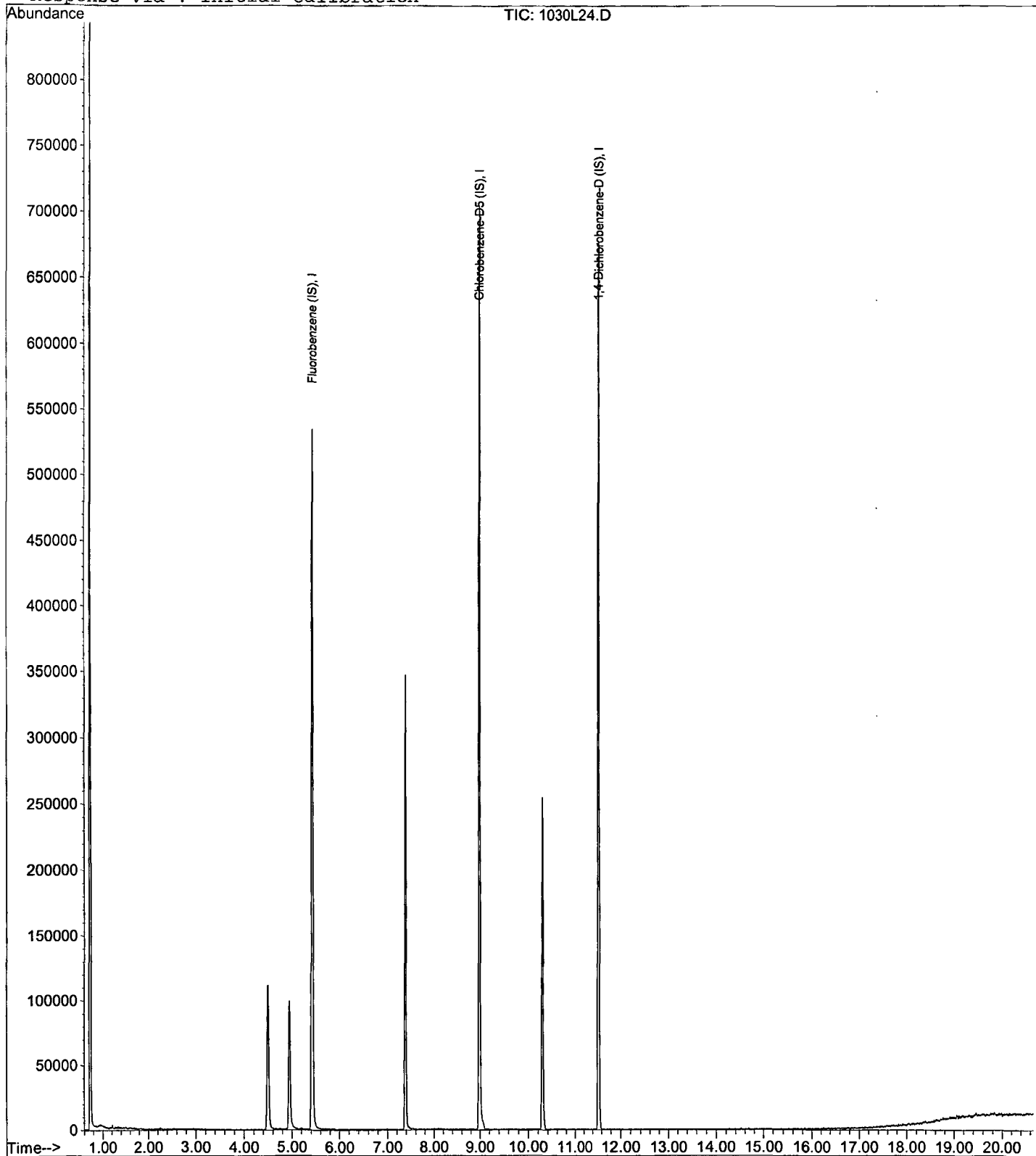
Data File : M:\LOKI\DATA\191023\1030L24.D
Acq On : 31 Oct 19 00:50
Sample : 191030 BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:38 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T191028\1028T18.D
Acq On : 28 Oct 19 23:46
Sample : 191028A CCV/LCS 300ug/L
Misc : IS&S 9/23/19

Vial: 18
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:47 2019

Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration
DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	309313	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	390245	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	416848	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	3977475m	260.0908	ppb	100

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

Data File : M:\THOR\DATA\T191028\1028T18.D Vial: 18
 Acq On : 28 Oct 19 23:46 Operator:
 Sample : 191028A CCV/LCS 300ug/L Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 31 12:39 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	150208	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	134784	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	75136	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	71028	24.5319	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.128%
3) 1,2-DCA-D4(S)	6.17	65	78939	24.3495	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.396%
5) Toluene-D8(S)	8.30	98	248990	24.7372	ppb	0.00
Spiked Amount				25.000		
					Recovery =	98.948%
6) 4-Bromofluorobenzene(S)	10.92	174	95882	24.0623	ppb	0.00
Spiked Amount				25.000		
					Recovery =	96.248%

Target Compounds Qvalue

Quantitation Report

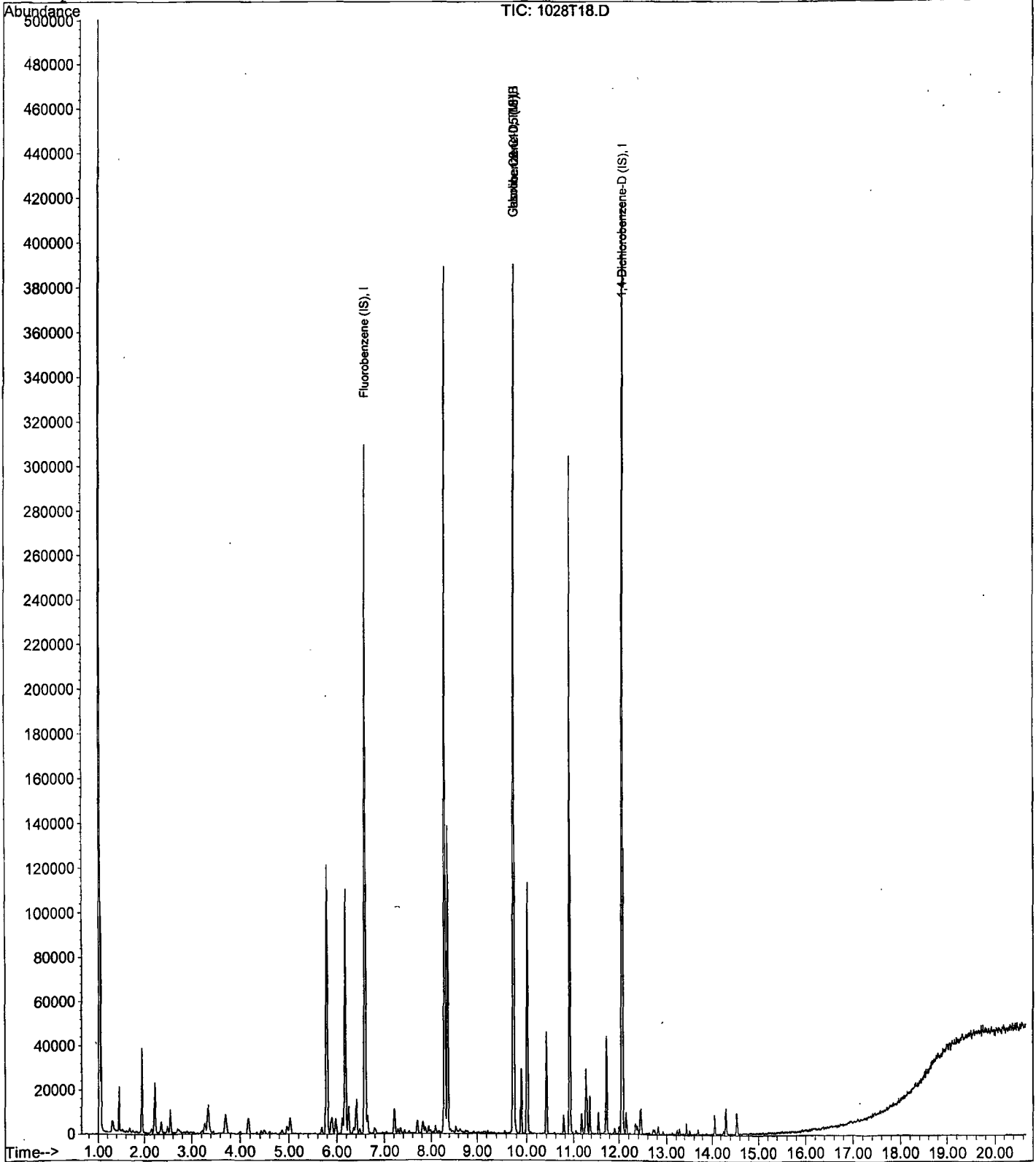
Data File : M:\THOR\DATA\T191028\1028T18.D
Acq On : 28 Oct 19 23:46
Sample : 191028A CCV/LCS 300ug/L
Misc : IS&S 9/23/19

Vial: 18
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:47 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L25.D Vial: 25
 Acq On : 28 Oct 19 21:33 Operator:
 Sample : 191028B LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	592723	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	784350	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	815034	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6197033m	298.3985	ppb	100

Data File : M:\LOKI\DATA\191023\1028L25.D Vial: 25
 Acq On : 28 Oct 19 21:33 Operator:
 Sample : 191028B LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	288640	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	279808	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	151680	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	87788	24.7029	ppb	0.00
Spiked Amount				25.000		
				Recovery =	98.812%	
3) 1,2-DCA-D4(S)	4.95	65	100647	26.3590	ppb	0.00
Spiked Amount				25.000		
				Recovery =	105.436%	
5) Toluene-D8(S)	7.38	98	276231	27.1315	ppb	0.00
Spiked Amount				25.000		
				Recovery =	108.528%	
6) 4-Bromofluorobenzene(S)	10.28	95	96961	26.8875	ppb	0.00
Spiked Amount				25.000		
				Recovery =	107.548%	

Target Compounds Qvalue

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

Quantitation Report

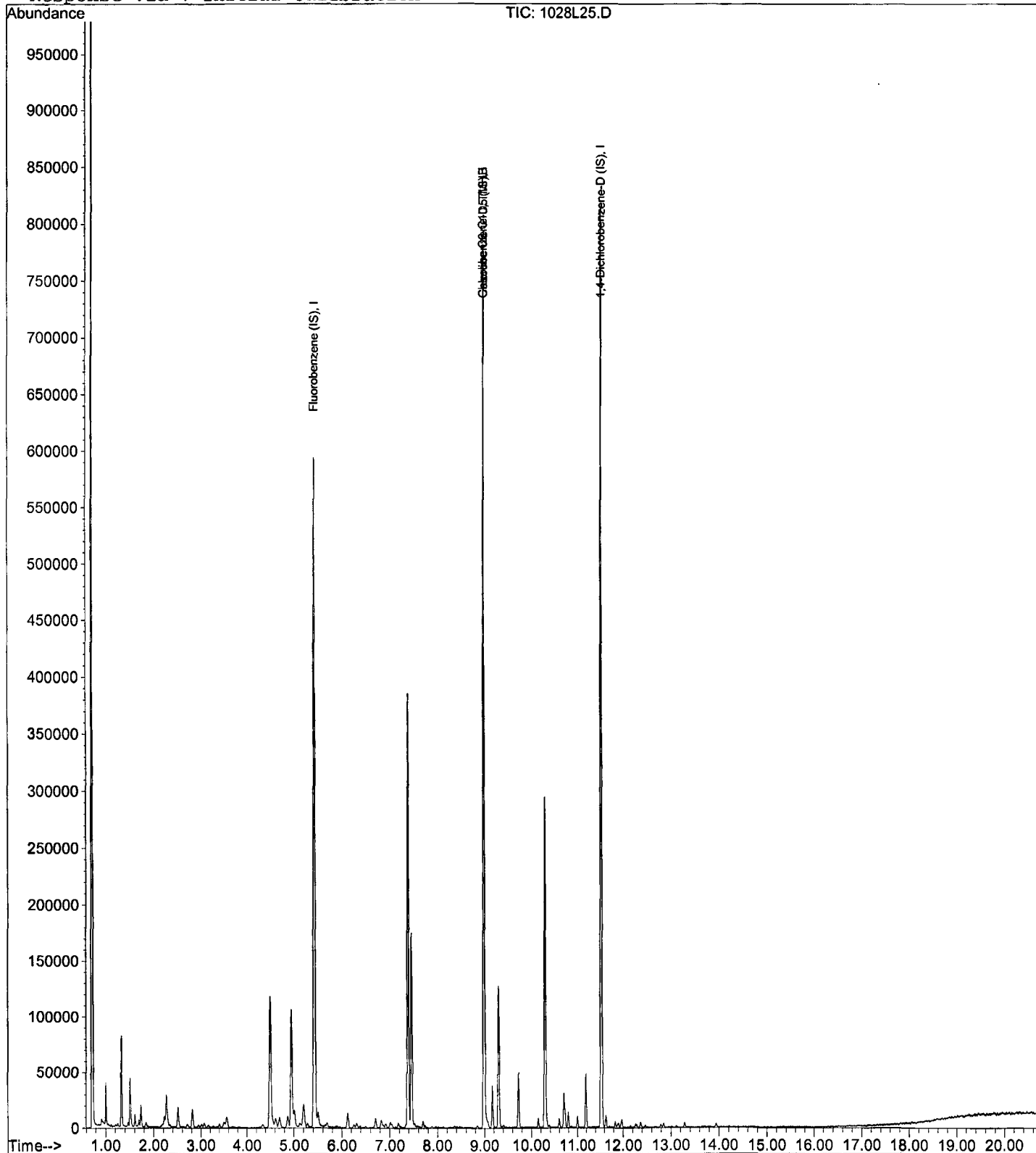
Data File : M:\LOKI\DATA\191023\1028L25.D
Acq On : 28 Oct 19 21:33
Sample : 191028B LCS 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 25
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L22.D Vial: 22
 Acq On : 30 Oct 19 23:53 Operator:
 Sample : 191030 LCS 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	568298	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	772917	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	733820	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5951352m	300.2161	ppb	100

Data File : M:\LOKI\DATA\191023\1030L22.D
 Acq On : 30 Oct 19 23:53
 Sample : 191030 LCS 300ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 22
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	271936	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	273600	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	134208	25.0000	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	85617	25.5719	ppb	0.00
Spiked Amount				25.000		
					Recovery = 102.288%	
3) 1,2-DCA-D4(S)	4.95	65	101264	28.1496	ppb	0.00
Spiked Amount				25.000		
					Recovery = 112.600%	
5) Toluene-D8(S)	7.38	98	269410	27.0620	ppb	0.00
Spiked Amount				25.000		
					Recovery = 108.248%	
6) 4-Bromofluorobenzene(S)	10.28	95	92083	26.1142	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.456%	

Target Compounds

Qvalue

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

Quantitation Report

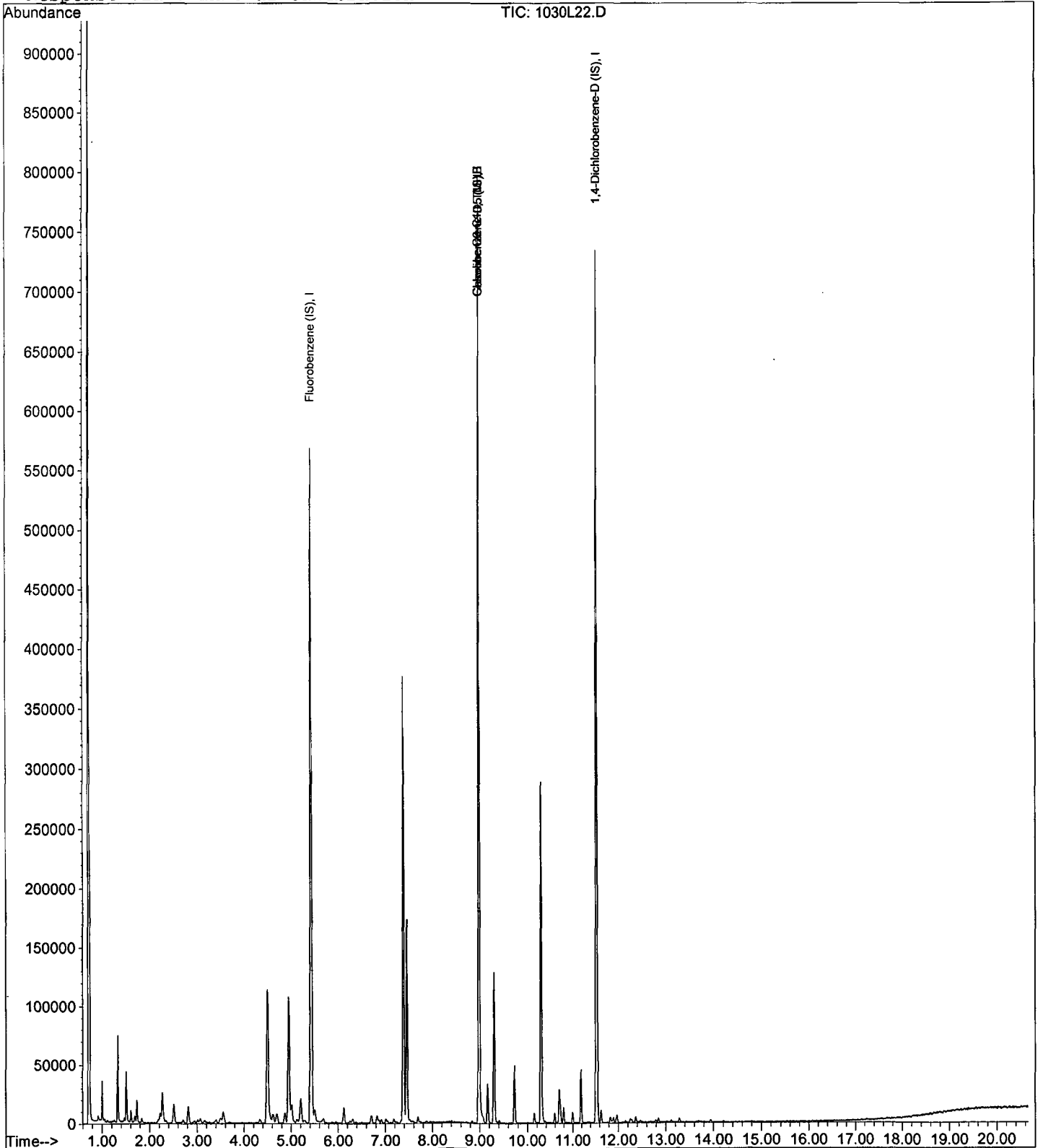
Data File : M:\LOKI\DATA\191023\1030L22.D
Acq On : 30 Oct 19 23:53
Sample : 191030 LCS 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1028T19.D Vial: 19
 Acq On : 29 Oct 19 00:14 Operator:
 Sample : 191028A LCSD 300ug/L Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 29 8:49 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	321646	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	405428	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	441050	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4032922m	234.7207	ppb	100

Data File : M:\THOR\DATA\T191028\1028T19.D
 Acq On : 29 Oct 19 00:14
 Sample : 191028A LCSD 300ug/L
 Misc : IS&S 9/23/19

Vial: 19
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 31 12:39 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191028\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	153728	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	143296	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	80720	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	70502	23.7927	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.172%	
3) 1,2-DCA-D4(S)	6.17	65	80123	24.1488	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.596%	
5) Toluene-D8(S)	8.30	98	246102	22.9978	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.992%	
6) 4-Bromofluorobenzene(S)	10.92	174	97285	22.9642	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.856%	
Target Compounds						Qvalue

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

Quantitation Report

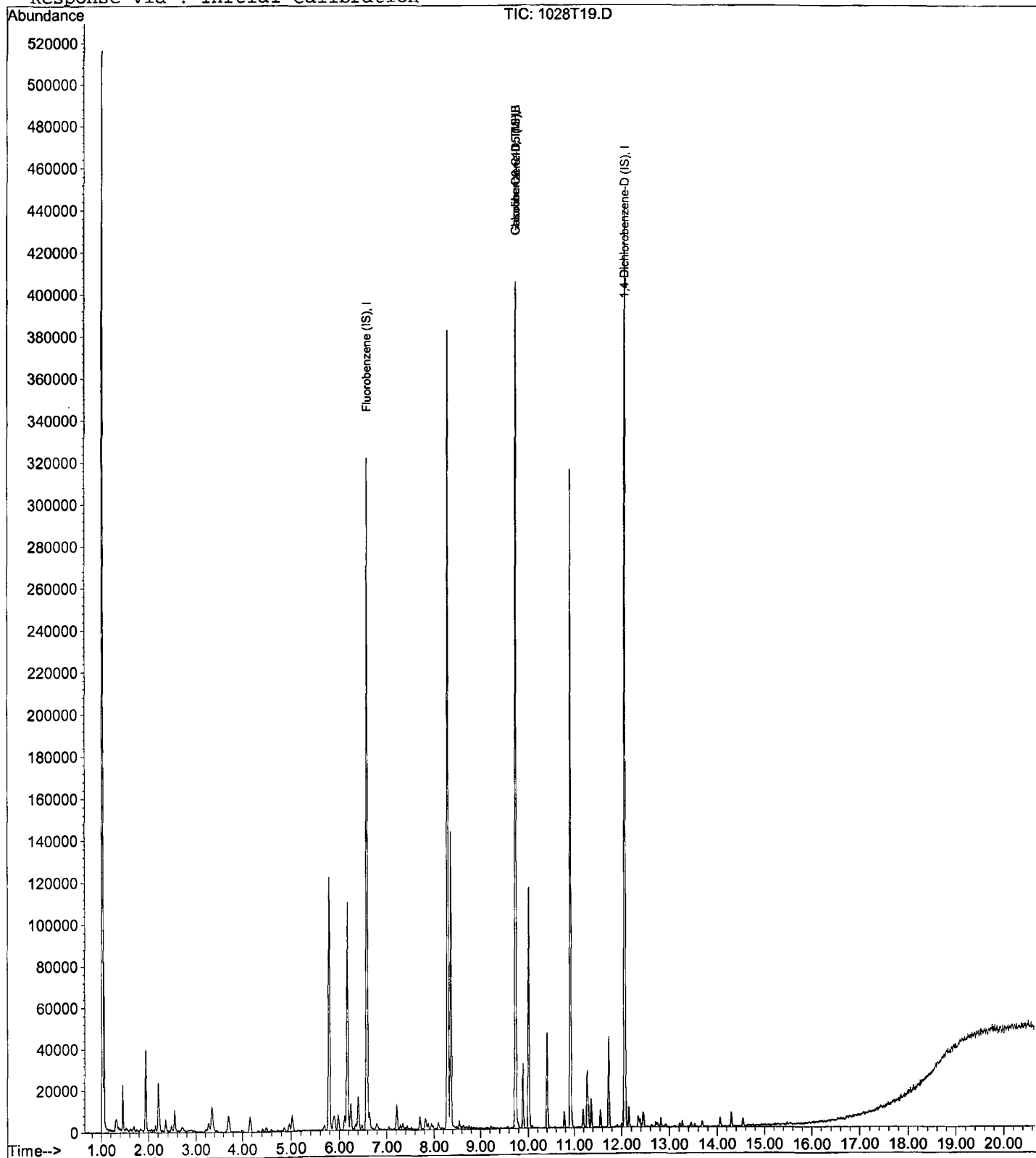
Data File : M:\THOR\DATA\T191028\1028T19.D
Acq On : 29 Oct 19 00:14
Sample : 191028A LCSD 300ug/L
Misc : IS&S 9/23/19

Vial: 19
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 29 8:49 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1028L26.D Vial: 26
 Acq On : 28 Oct 19 22:02 Operator:
 Sample : 191028B LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:51 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	618205	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	838431	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	813030	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6415442m	290.1173	ppb	100

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

Data File : M:\LOKI\DATA\191023\1028L26.D
 Acq On : 28 Oct 19 22:02
 Sample : 191028B LCSD 300ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 26
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:49 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	298880	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	299776	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	150784	25.0000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	88580	24.0718	ppb	0.00
Spiked Amount				25.000		
					Recovery = 96.288%	
3) 1,2-DCA-D4(S)	4.95	65	102916	26.0297	ppb	0.00
Spiked Amount				25.000		
					Recovery = 104.120%	
5) Toluene-D8(S)	7.38	98	282430	25.8926	ppb	0.00
Spiked Amount				25.000		
					Recovery = 103.572%	
6) 4-Bromofluorobenzene(S)	10.28	95	97667	25.2792	ppb	0.00
Spiked Amount				25.000		
					Recovery = 101.116%	

Target Compounds Qvalue

Quantitation Report

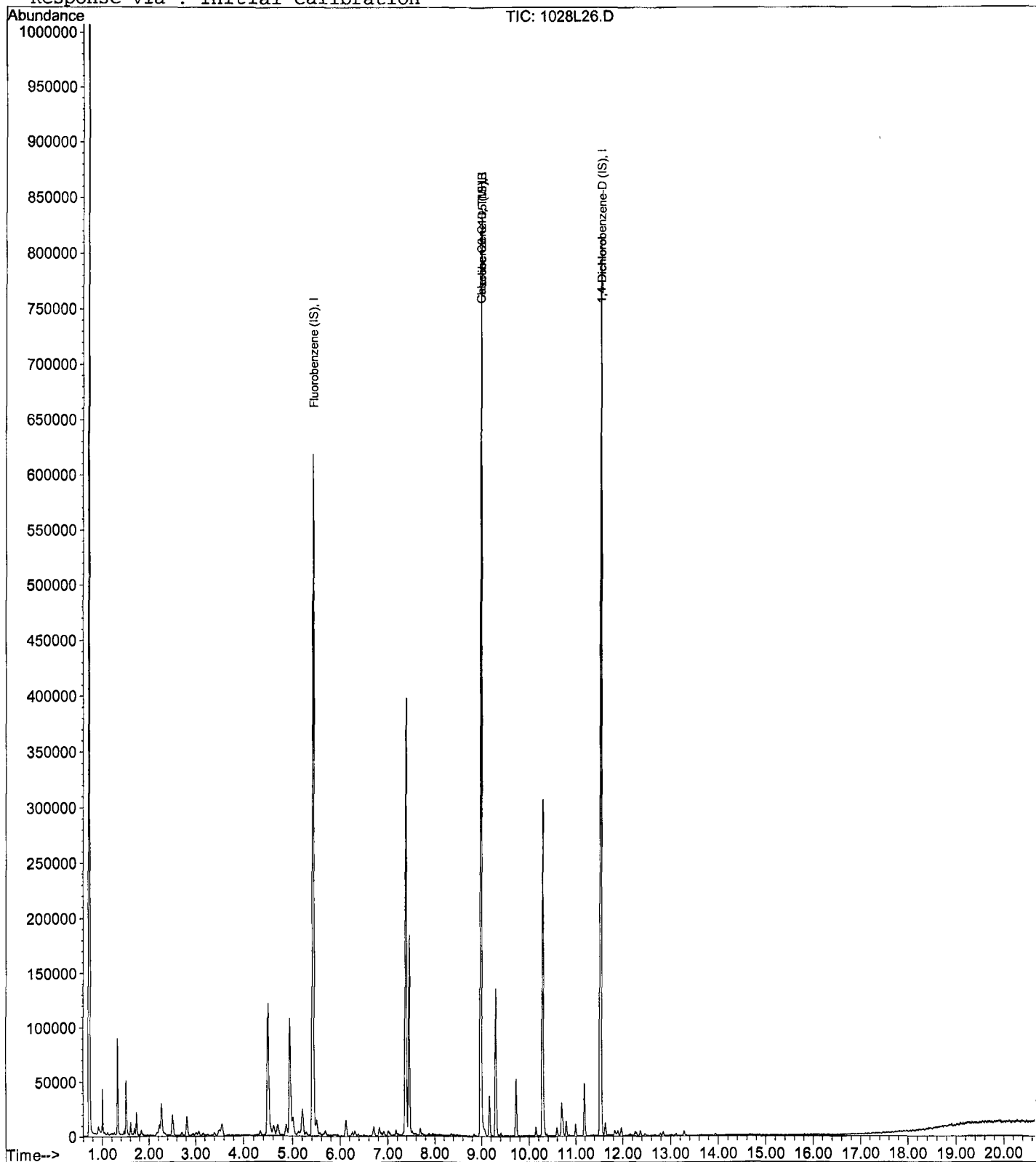
Data File : M:\LOKI\DATA\191023\1028L26.D
Acq On : 28 Oct 19 22:02
Sample : 191028B LCSD 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 26
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:51 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L23.D
 Acq On : 31 Oct 19 00:22
 Sample : 191030 LCSD 300ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 23
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	572534	25.0000	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	749746	25.0000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	736815	25.0000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5874300m	277.6035	ppb	100

Data File : M:\LOKI\DATA\191023\1030L23.D Vial: 23
 Acq On : 31 Oct 19 00:22 Operator:
 Sample : 191030 LCSD 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	274816	25.0000	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	265088	25.0000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	135104	25.0000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	83818	24.7722	ppb	0.00
Spiked Amount 25.000						Recovery = 99.088%
3) 1,2-DCA-D4(S)	4.95	65	98003	26.9576	ppb	0.00
Spiked Amount 25.000						Recovery = 107.832%
5) Toluene-D8(S)	7.38	98	263021	27.2685	ppb	0.00
Spiked Amount 25.000						Recovery = 109.076%
6) 4-Bromofluorobenzene(S)	10.28	95	92437	27.0563	ppb	0.00
Spiked Amount 25.000						Recovery = 108.224%

Target Compounds Qvalue

Quantitation Report

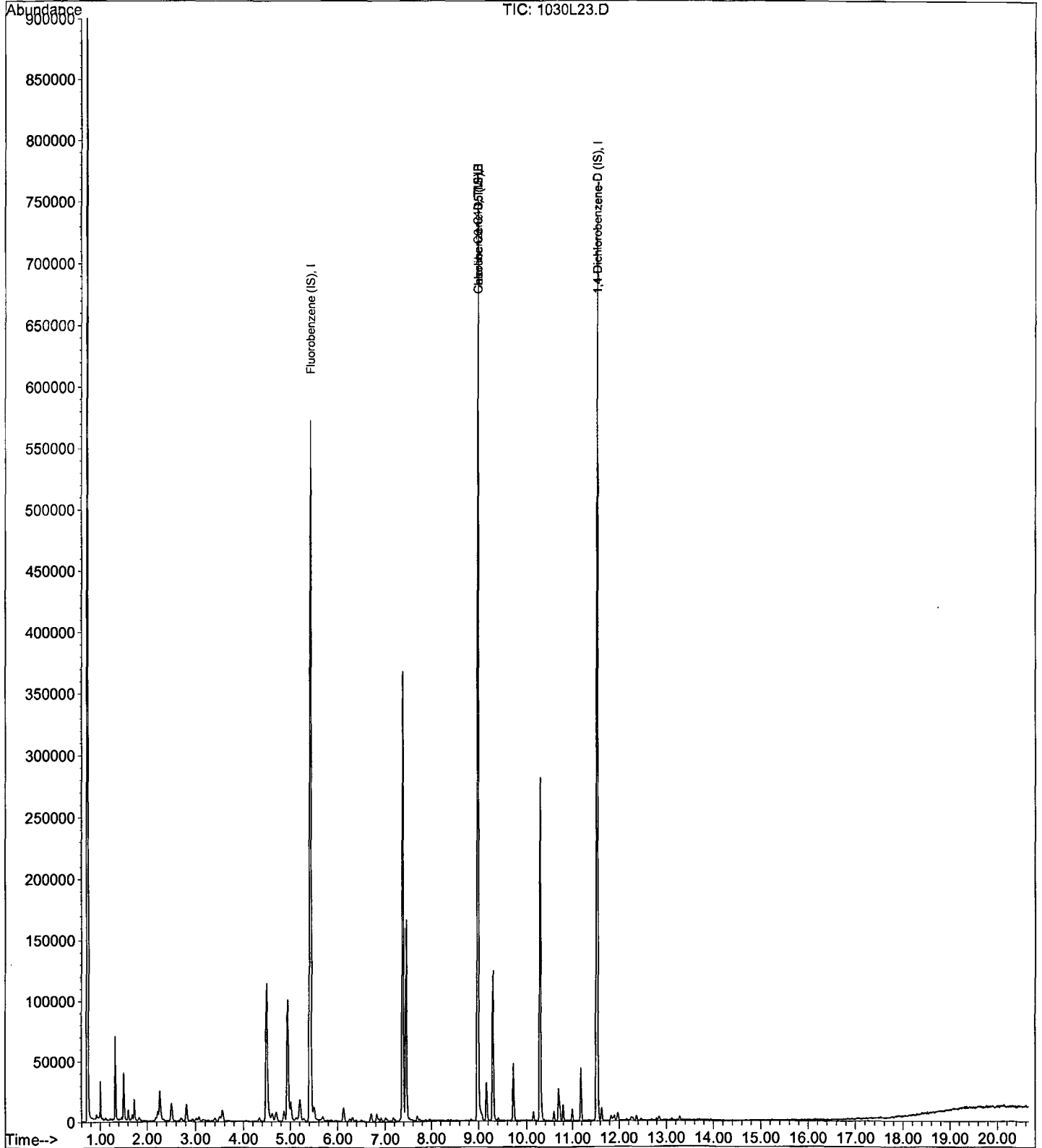
Data File : M:\LOKI\DATA\191023\1030L23.D
Acq On : 31 Oct 19 00:22
Sample : 191030 LCSD 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191025\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Injection Log

Directory: M:\THOR\DATA\T191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
6	1023T06.D	1	0.3ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 19:32
7	1023T07.D	1	0.5ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:01
8	1023T08.D	1	1.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:29
9	1023T09.D	1	2.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:58
10	1023T10.D	1	5.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:26
11	1023T11.D	1	10ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:55
12	1023T12.D	1	20ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:23
13	1023T13.D	1	40ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:52
14	1023T14.D	1	100ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 23:20
2	1026T02.D	1	20ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 12:41
3	1026T03.D	1	50ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 13:09
4	1026T04.D	1	100ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 13:37
5	1026T05.D	1	300ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 14:06
6	1026T06.D	1	600ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 14:34
7	1026T07.D	1	800ug/L GAS 10/26/19	IS&S 9/23/19	26 Oct 19 15:03
1	1028T01.D	1	(SS) 300ug/L GAS 10/28/19	IS&S 9/23/19	28 Oct 19 15:43
18	1028T18.D	1	191028A CCV/LCS 300ug/L	IS&S 9/23/19	28 Oct 19 23:46
19	1028T19.D	1	191028A LCSD 300ug/L	IS&S 9/23/19	29 Oct 19 00:14
21	1028T21.D	1	191028A BLK	IS&S 9/23/19	29 Oct 19 1:11
34	1028T34.D	1	BA01779W01	IS&S 9/23/19	29 Oct 19 7:18
38	1028T38.D	1	Ending CCV 300ug/L 10/13/19	IS&S 9/23/19	29 Oct 19 9:11

Injection Log

Directory: M:\LOKIDATA\191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
6	1023L10.D	1	0.3ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:30
7	1023L11.D	1	0.5ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:59
8	1023L12.D	1	1.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:27
9	1023L13.D	1	2.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:56
10	1023L14.D	1	5.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:24
11	1023L15.D	1	10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:53
12	1023L16.D	1	20ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:21
13	1023L17.D	1	40ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:50
14	1023L18.D	1	100ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 23:18
50	1026L50.D	1	20ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 6:07
51	1026L51.D	1	50ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 6:36
52	1026L52.D	1	100ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 7:04
53	1026L53.D	1	300ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 7:32
54	1026L54.D	1	600ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:01
55	1026L55.D	1	800ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:29
56	1026L56.D	1	1000ug/L GAS 10/26/19	IS&S:10/7/19, 10/23/19	27 Oct 19 8:58
9	1028L09.D	1	(SS) 300ug/L GAS STD 10/28/19	IS&S:10/7/19, 10/23/19	28 Oct 19 13:58
24	1028L24.D	1	191028B CCV 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 21:05
25	1028L25.D	1	191028B LCS 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 21:33
26	1028L26.D	1	191028B LCSD 300ug/L	IS&S:10/7/19, 10/23/19	28 Oct 19 22:02
27	1028L27.D	1	191028B BLK	IS&S:10/7/19, 10/23/19	28 Oct 19 22:30
28	1028L28.D	1	BA01774W01	IS&S:10/7/19, 10/23/19	28 Oct 19 22:59
29	1028L29.D	1	BA01776W01	IS&S:10/7/19, 10/23/19	28 Oct 19 23:27
30	1028L30.D	1	BA01778W01	IS&S:10/7/19, 10/23/19	28 Oct 19 23:55
31	1028L31.D	1	BA01783W01	IS&S:10/7/19, 10/23/19	29 Oct 19 00:24
40	1028L40.D	1	BA01780W01	IS&S:10/7/19, 10/23/19	29 Oct 19 4:39
41	1028L41.D	1	BA01781W01	IS&S:10/7/19, 10/23/19	29 Oct 19 5:08
42	1028L42.D	1	BA01782W01	IS&S:10/7/19, 10/23/19	29 Oct 19 5:36
43	1028L43.D	1	BA01784W01	IS&S:10/7/19, 10/23/19	29 Oct 19 6:05
44	1028L44.D	1	BA01775W01	IS&S:10/7/19, 10/23/19	29 Oct 19 6:33
46	1028L46.D	1	Ending CCV 300ug/L 10/28/19	IS&S:10/7/19, 10/23/19	29 Oct 19 7:30
21	1030L21.D	1	191030 CCV 300ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 23:25
22	1030L22.D	1	191030 LCS 300ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 23:53
23	1030L23.D	1	191030 LCSD 300ug/L	IS&S:10/7/19, 10/23/19	31 Oct 19 00:22
24	1030L24.D	1	191030 BLK	IS&S:10/7/19, 10/23/19	31 Oct 19 00:50
27	1030L27.D	1	BA01777W03	IS&S:10/7/19, 10/23/19	31 Oct 19 2:15
43	1030L43.D	1	Ending CCV 300ug/L 10/29/19	IS&S:10/7/19, 10/23/19	31 Oct 19 9:49

**ORGANICS
Calibration Data**

RSK 175
RSK 175

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/02/19
Instrument: 7890

Initials: _____

1002R02.D 1002R03.D 1002R04.D 1002R05.D 1002R06.D 1002R07.D 1002R08.D

		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r ²	Q
1	ATM	Methane	63820	40452	36215	45202	48427	44031	45774				46274	19	ATM		
2	ATM	Ethane	42546	31037	26553	34655	37738	32771	32974				34039	15	ATM		
3	ATM	Ethene	32900	24299	20841	27689	29847	25551	26297				26775	15	ATM		
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1.377886

Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R02.D Vial: 2
 Acq On : 2 Oct 19 17:45 Operator: GA
 Sample : RSK STD 1 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

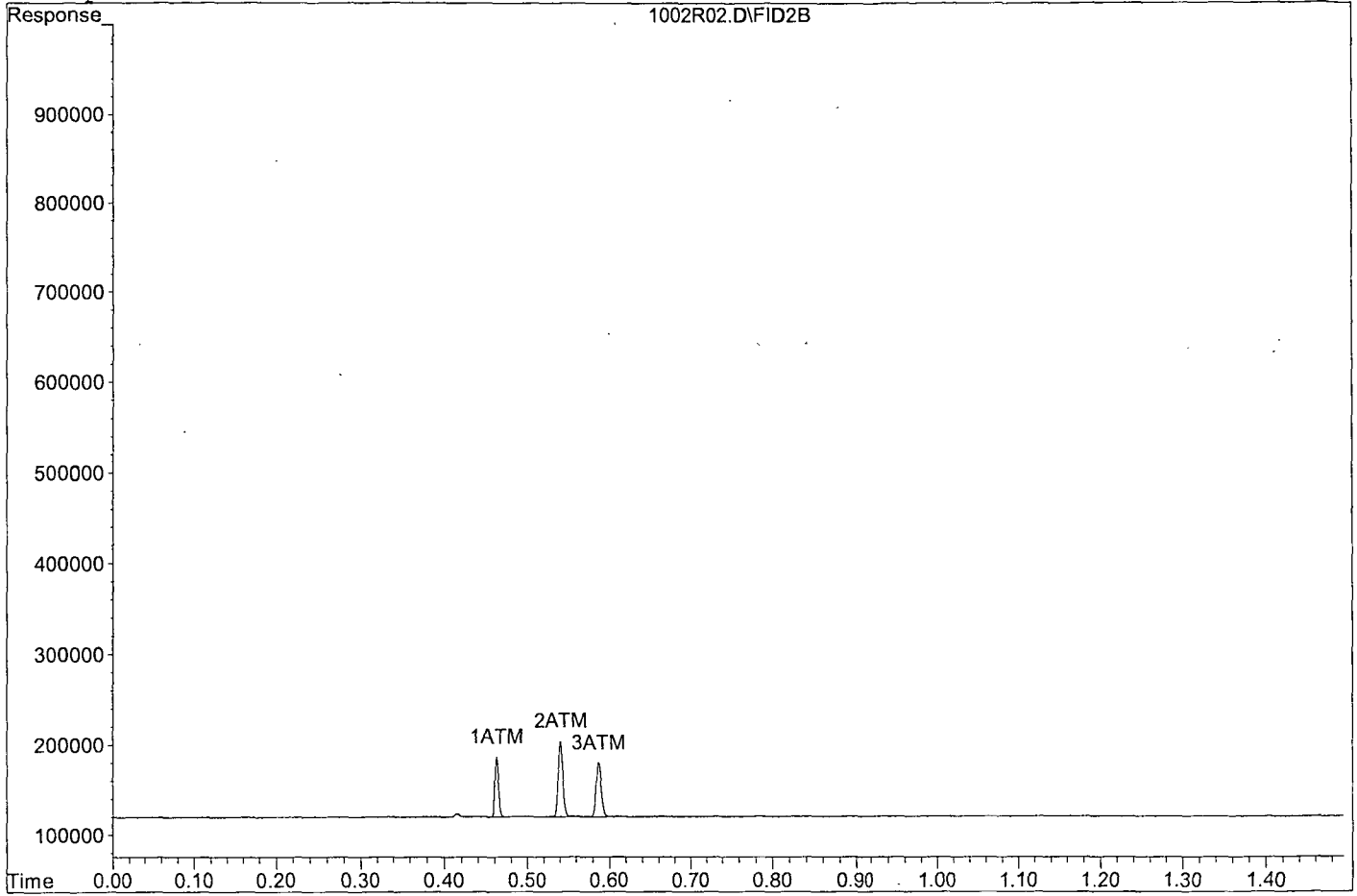
Target Compounds			
1) ATM Methane	0.46	66373	8.306 ppb
2) ATM Ethane	0.54	83177	6.216 ppb
3) ATM Ethene	0.59	60042	5.640 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R02.D

Sample : RSK STD 1 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R03.D Vial: 3
 Acq On : 2 Oct 19 17:50 Operator: GA
 Sample : RSK STD 2 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

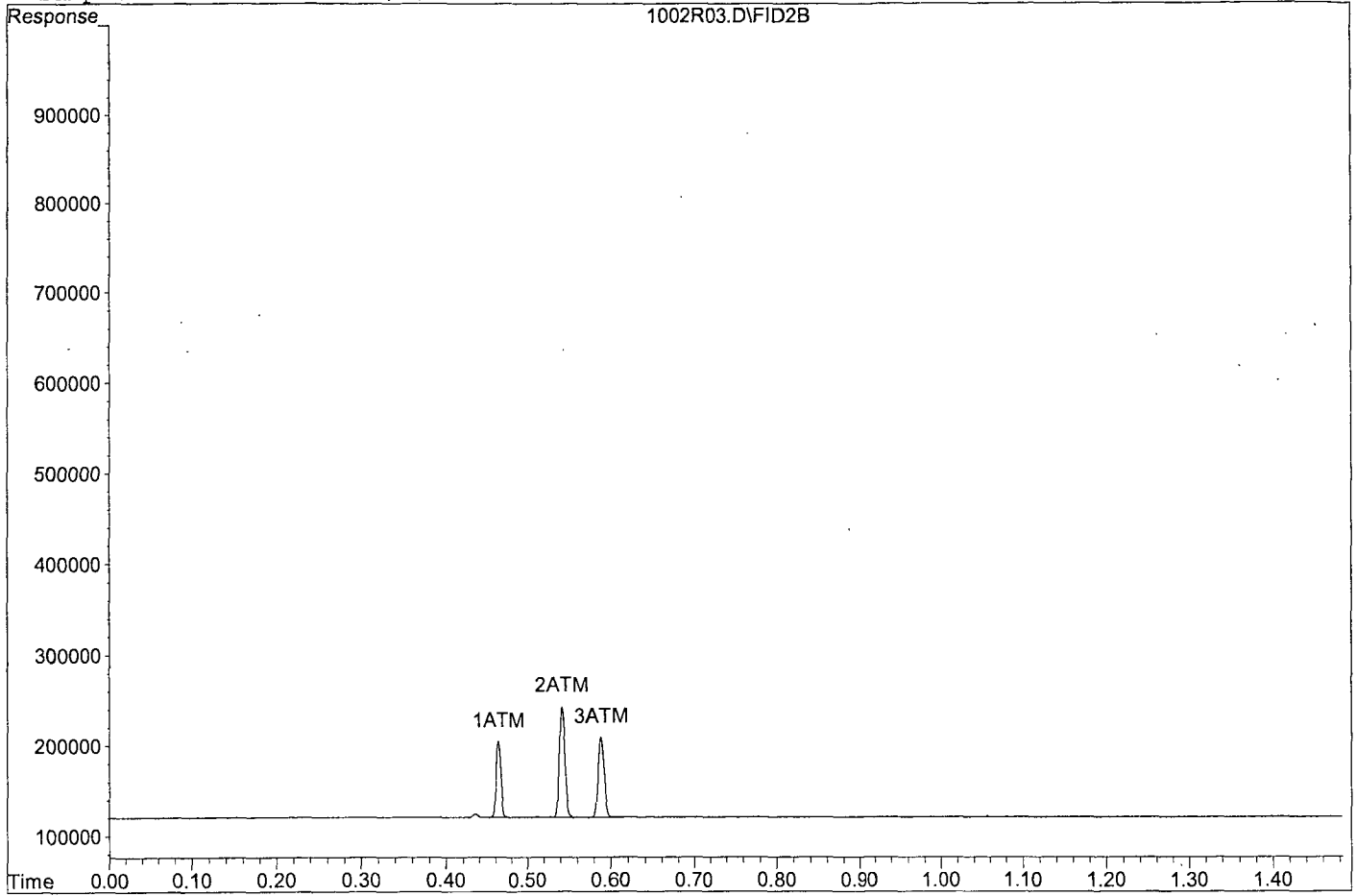
Target Compounds			
1) ATM Methane	0.46	84140	9.332 ppb.
2) ATM Ethane	0.54	121200	9.058 ppb
3) ATM Ethene	0.59	88693	8.332 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R03.D

Sample : RSK STD 2 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R04.D Vial: 4
 Acq On : 2 Oct 19 17:52 Operator: GA
 Sample : RSK STD 3 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

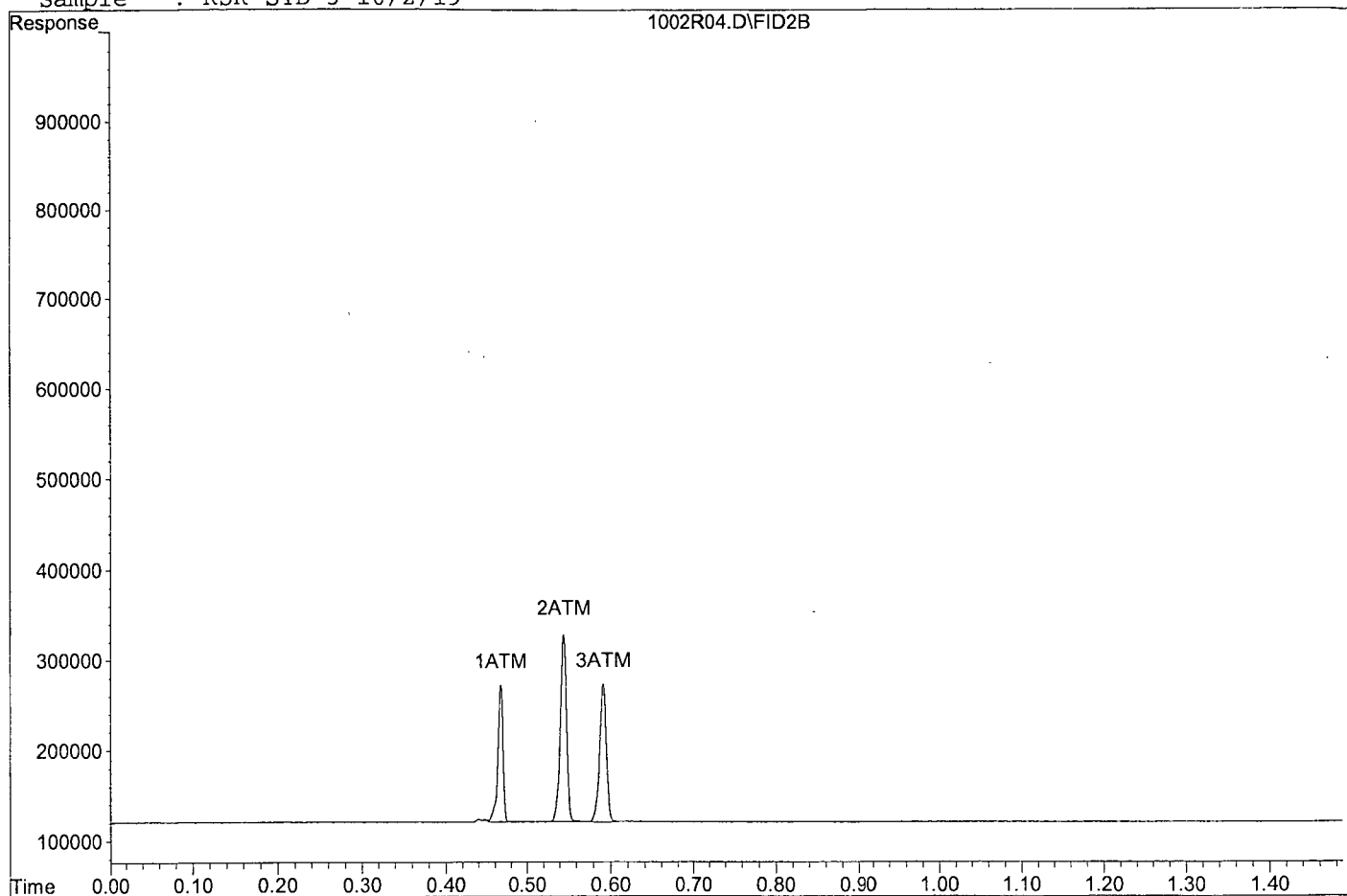
Target Compounds			
1) ATM Methane	0.47	151018	13.195 ppb
2) ATM Ethane	0.55	207113	15.479 ppb
3) ATM Ethene	0.59	152138	14.292 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R04.D

Sample : RSK STD 3 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R05.D Vial: 5
 Acq On : 2 Oct 19 17:57 Operator: GA
 Sample : RSK STD 4 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

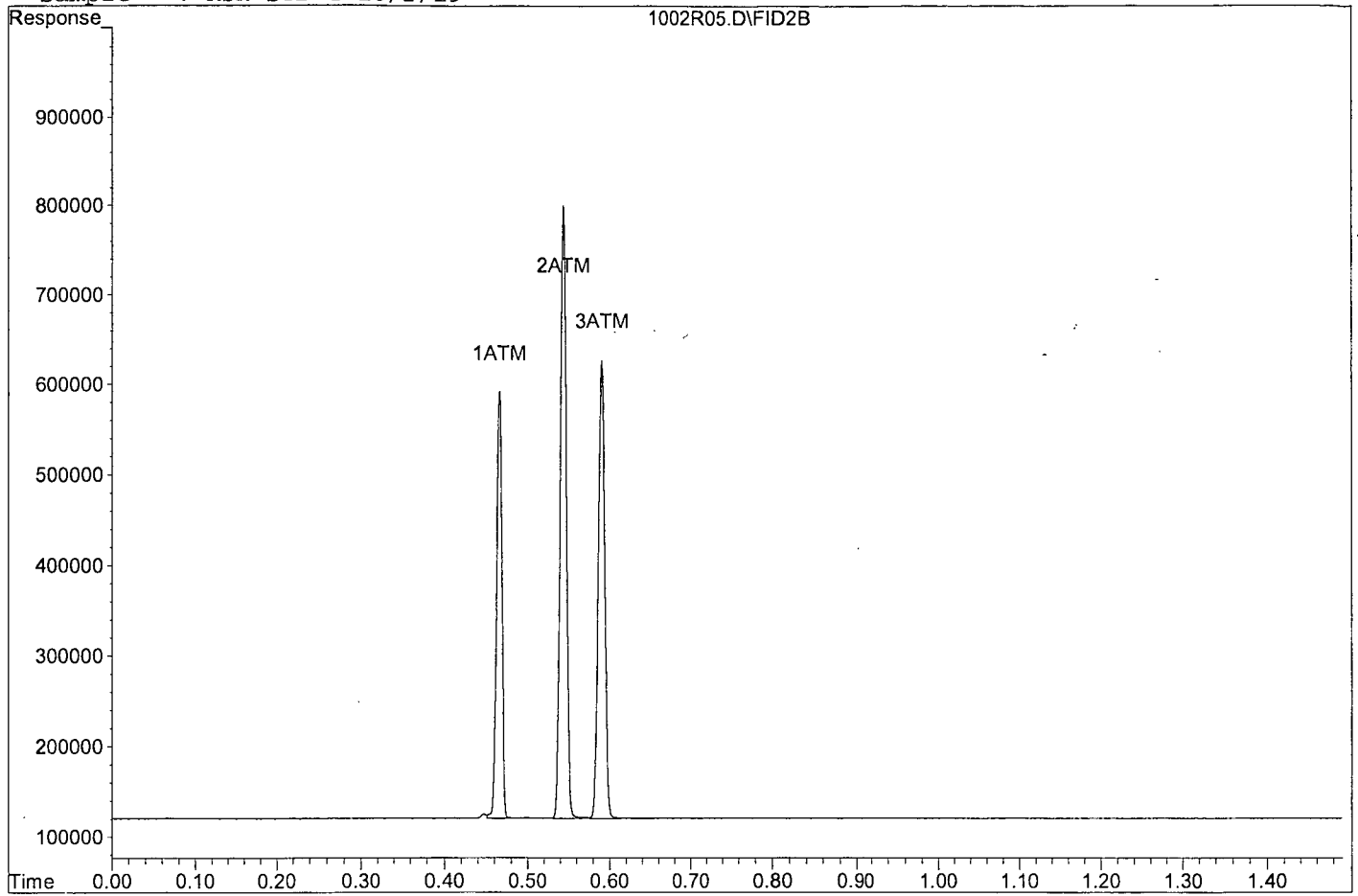
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.47	471234	31.689 ppb
2) ATM Ethane	0.54	677330	50.623 ppb
3) ATM Ethene	0.59	504779	47.419 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R05.D
Sample : RSK STD 4 10/2/19



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1002R06.D Vial: 6
 Acq On : 2 Oct 19 17:59 Operator: GA
 Sample : RSK STD 5 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

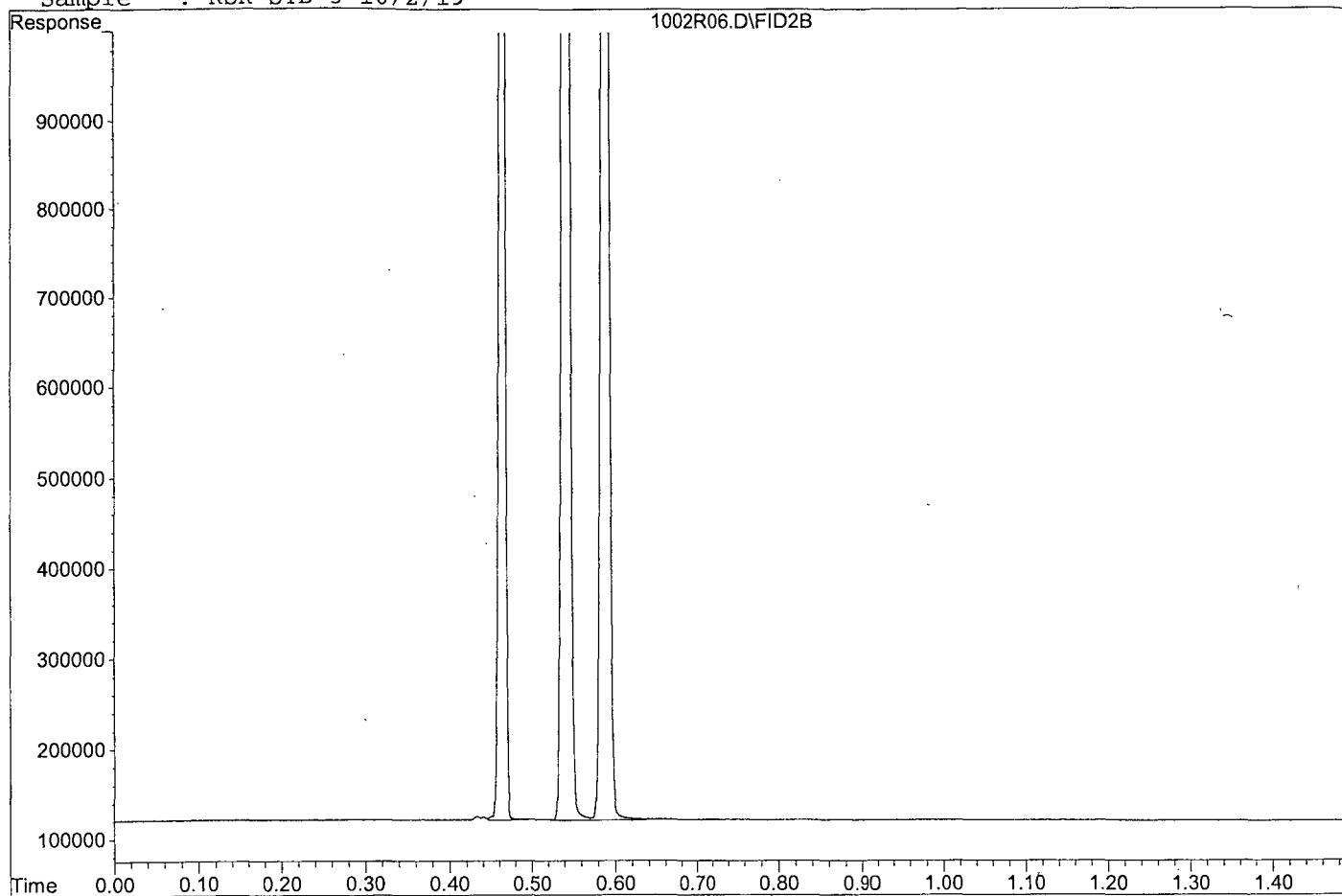
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	2019402	121.105 ppb
2) ATM Ethane	0.54	2950189	220.492 ppb
3) ATM Ethene	0.59	2176445	204.454 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R06.D
Sample : RSK STD 5 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R07.D Vial: 7
 Acq On : 2 Oct 19 18:05 Operator: GA
 Sample : RSK STD 6 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

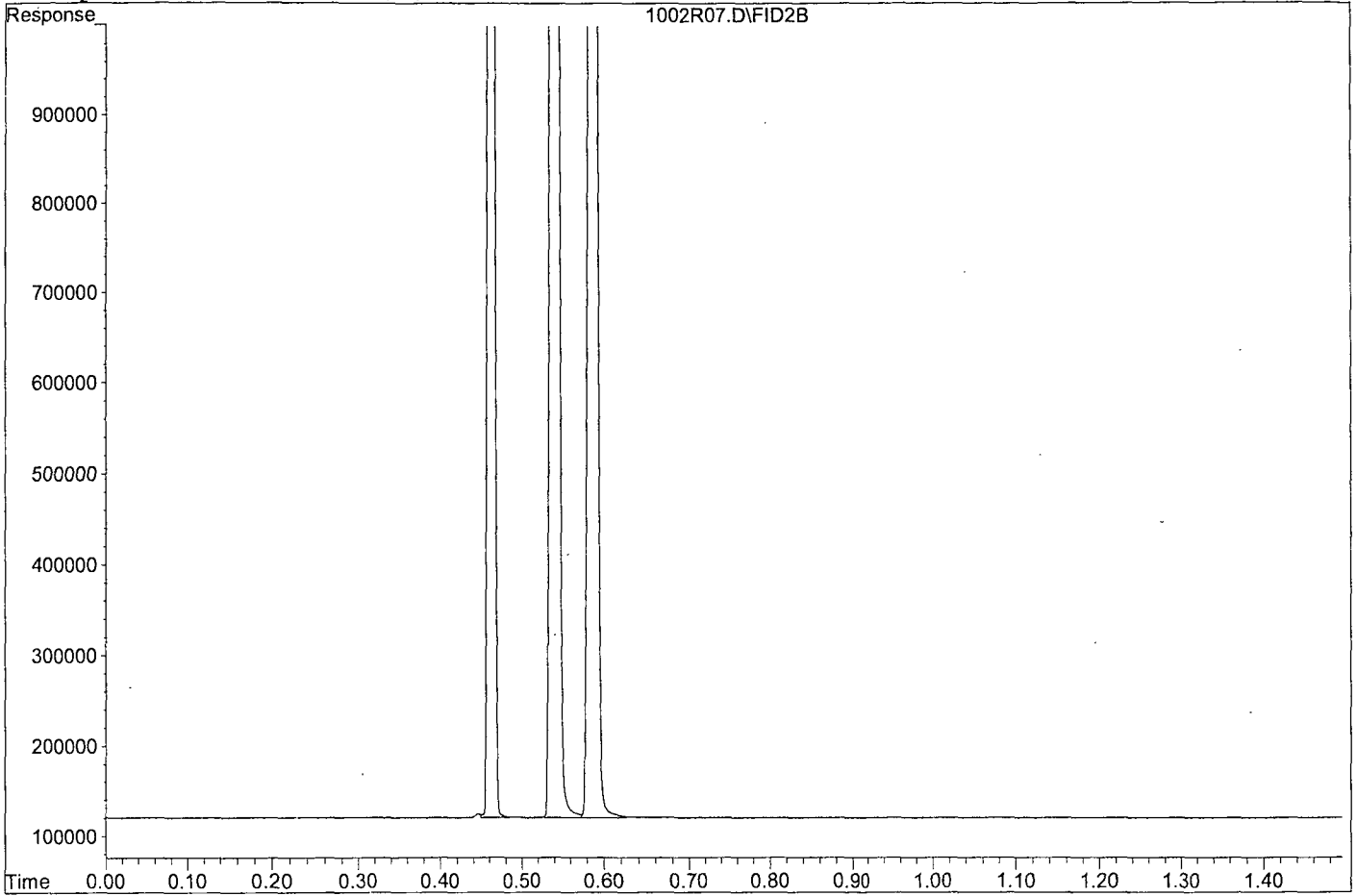
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	4590194	269.583 ppb
2) ATM Ethane	0.54	6405030	478.702 ppb
3) ATM Ethene	0.59	4657966	437.567 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R07.D
Sample : RSK STD 6 10/2/19



Data File : G:\ROCKY\DATA\191002RS\1002R08.D Vial: 8
 Acq On : 2 Oct 19 18:07 Operator: GA
 Sample : RSK STD 7 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

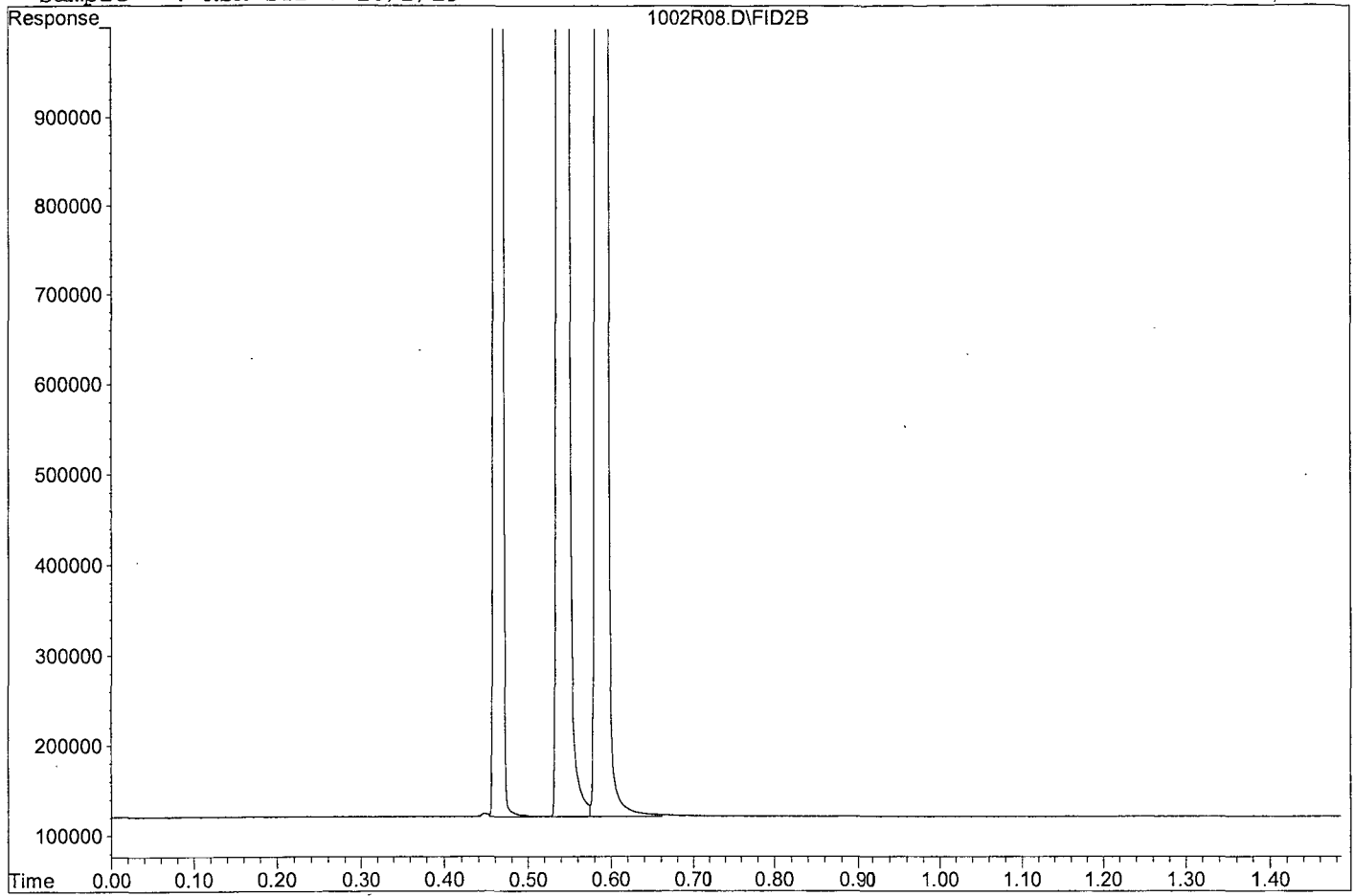
Compound	R.T.	Response	Conc Units

Target Compounds			
1) ATM Methane	0.46	19087907	1106.909 ppb
2) ATM Ethane	0.54	25777712	1926.584 ppb
3) ATM Ethene	0.59	19176068	1801.389 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R08.D
Sample : RSK STD 7 10/2/19



RSK 175

RSK 175

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 2 Oct 19 18:24

Matrix: _____

Instrument: 7890

Initial Cal. Date: 10/02/19

Data File: 1002R10.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	50203	8.5	ATM
2	ATM	Ethane	34039	37011	8.7	ATM
3	ATM	Ethene	26775	28699	7.2	ATM
4						
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40		Average			8.1	

Data File : G:\ROCKY\DATA\191002RS\1002R10.D Vial: 10
 Acq On : 2 Oct 19 18:24 Operator: GA
 Sample : SS RSK STD 5 10/2/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 2 18:27 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Wed Oct 02 18:14:49 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

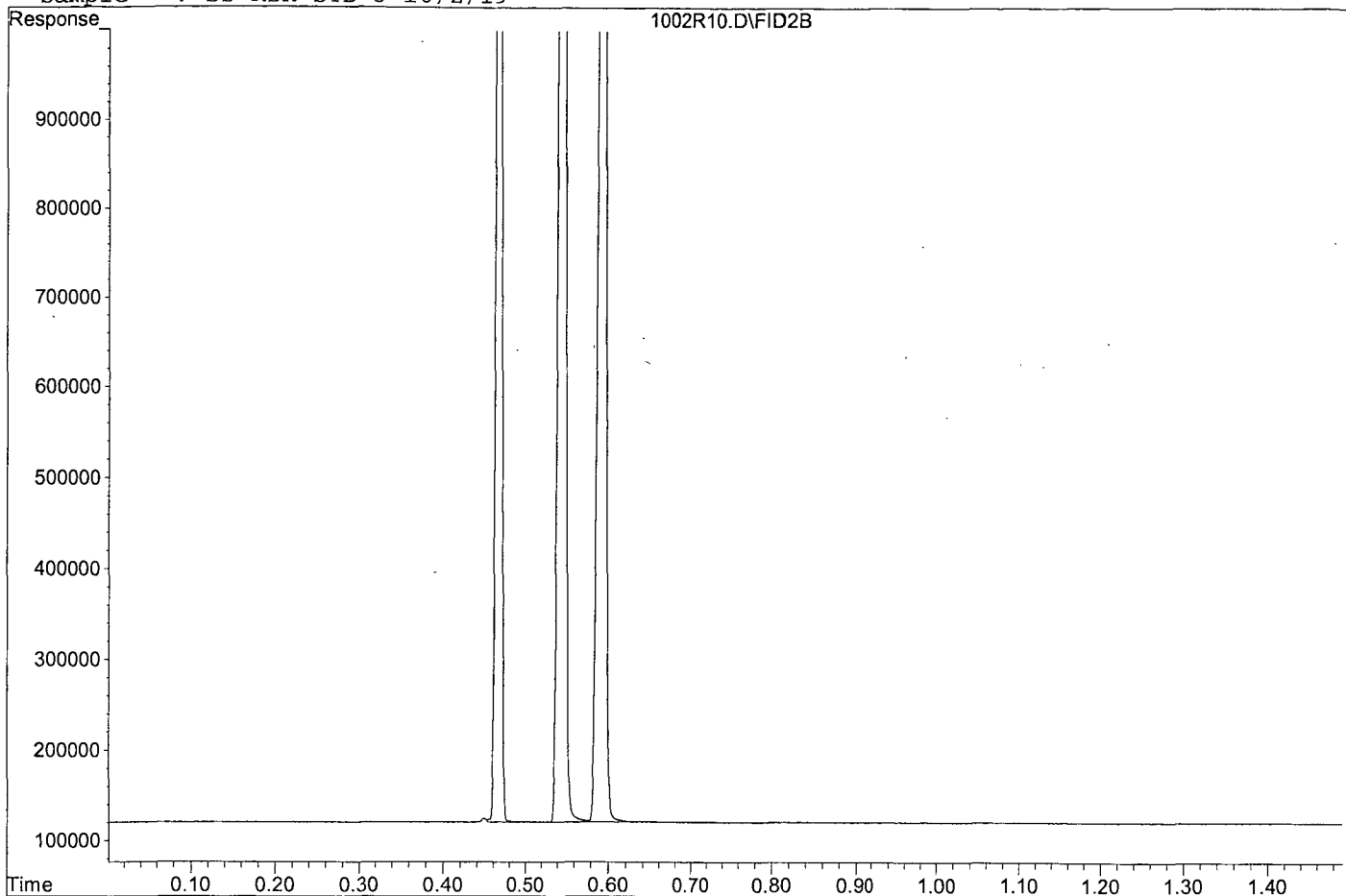
Target Compounds			
1) ATM Methane	0.47	2093456	90.480 ppb
2) ATM Ethane	0.54	2893356	170.002 ppb
3) ATM Ethene	0.59	2092707	156.318 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1002R10.D

Sample : SS RSK STD 5 10/2/19



RSK 175
RSK 175

Form 7
Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: 7890
Initial Cal. Date: 10/02/19
Data File: 1029R04.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	44336	4.2	ATM
2	ATM	Ethane	34039	34507	1.4	ATM
3	ATM	Ethene	26775	26285	1.8	ATM
4						
5						
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Average

2.5

Data File : G:\ROCKY\DATA\191002RS\1029R04.D Vial: 4
 Acq On : 29 Oct 19 17:17 Operator: GA
 Sample : 191029A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 17:37 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

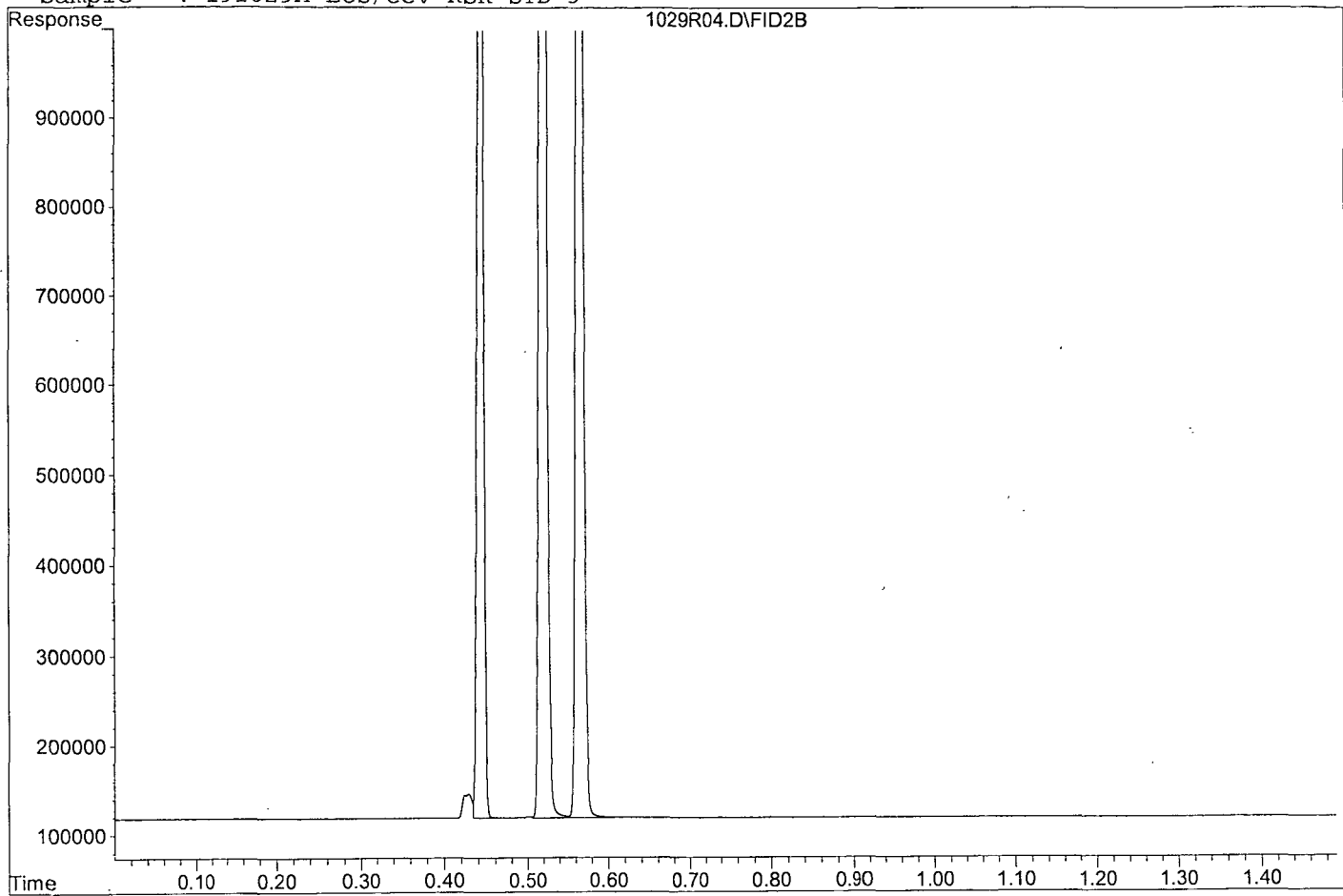
Target Compounds			
1) ATM Methane	0.44	1848809	79.906 ppb
2) ATM Ethane	0.52	2697562	158.498 ppb
3) ATM Ethene	0.57	1916665	143.168 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R04.D

Sample : 191029A LCS/CCV RSK STD 5



RSK 175
RSK 175

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: 7890
Initial Cal. Date: 10/02/19
Data File: 1029R19.D

		Compound	MEAN	CCRF	%D	%Drift
1	ATM	Methane	46275	35934	22	ATM
2	ATM	Ethane	34039	28783	15	ATM
3	ATM	Ethene	26775	21497	20	ATM
4						
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40						

Average

19.0

Data File : G:\ROCKY\DATA\191002RS\1029R19.D Vial: 19
 Acq On : 29 Oct 19 18:45 Operator: GA
 Sample : ENDING CCV RSK STD 5 10/29/19 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:49 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

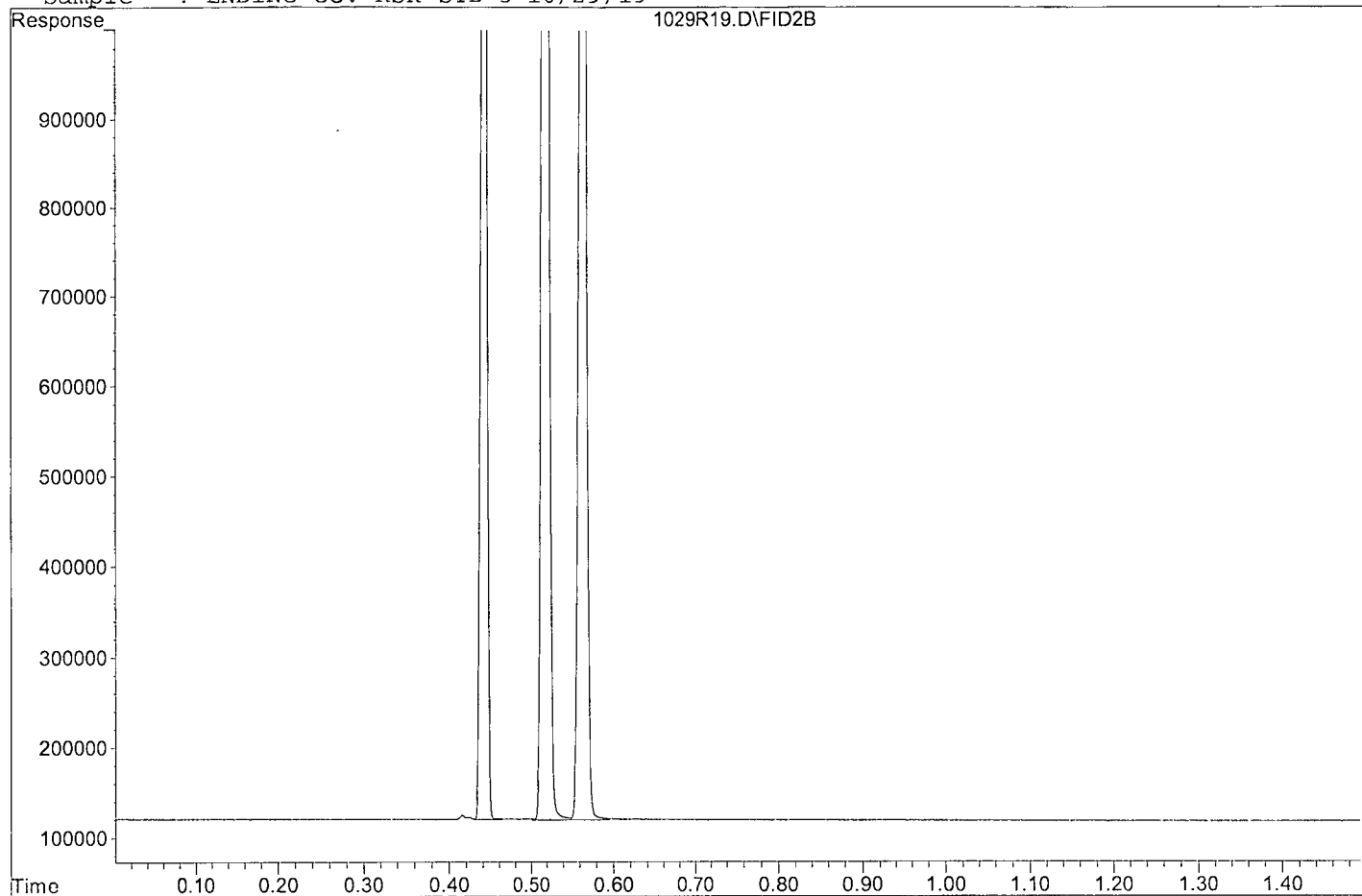
Target Compounds			
1) ATM Methane	0.44	1498442	64.763 ppb
2) ATM Ethane	0.52	2250092	132.206 ppb
3) ATM Ethene	0.56	1567558	117.091 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R19.D

Sample : ENDING CCV RSK STD 5 10/29/19



ORGANICS
Raw Data

Data File : G:\ROCKY\DATA\191002RS\1029R07.D Vial: 7
 Acq On : 29 Oct 19 17:46 Operator: GA
 Sample : BA01774W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 17:54 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

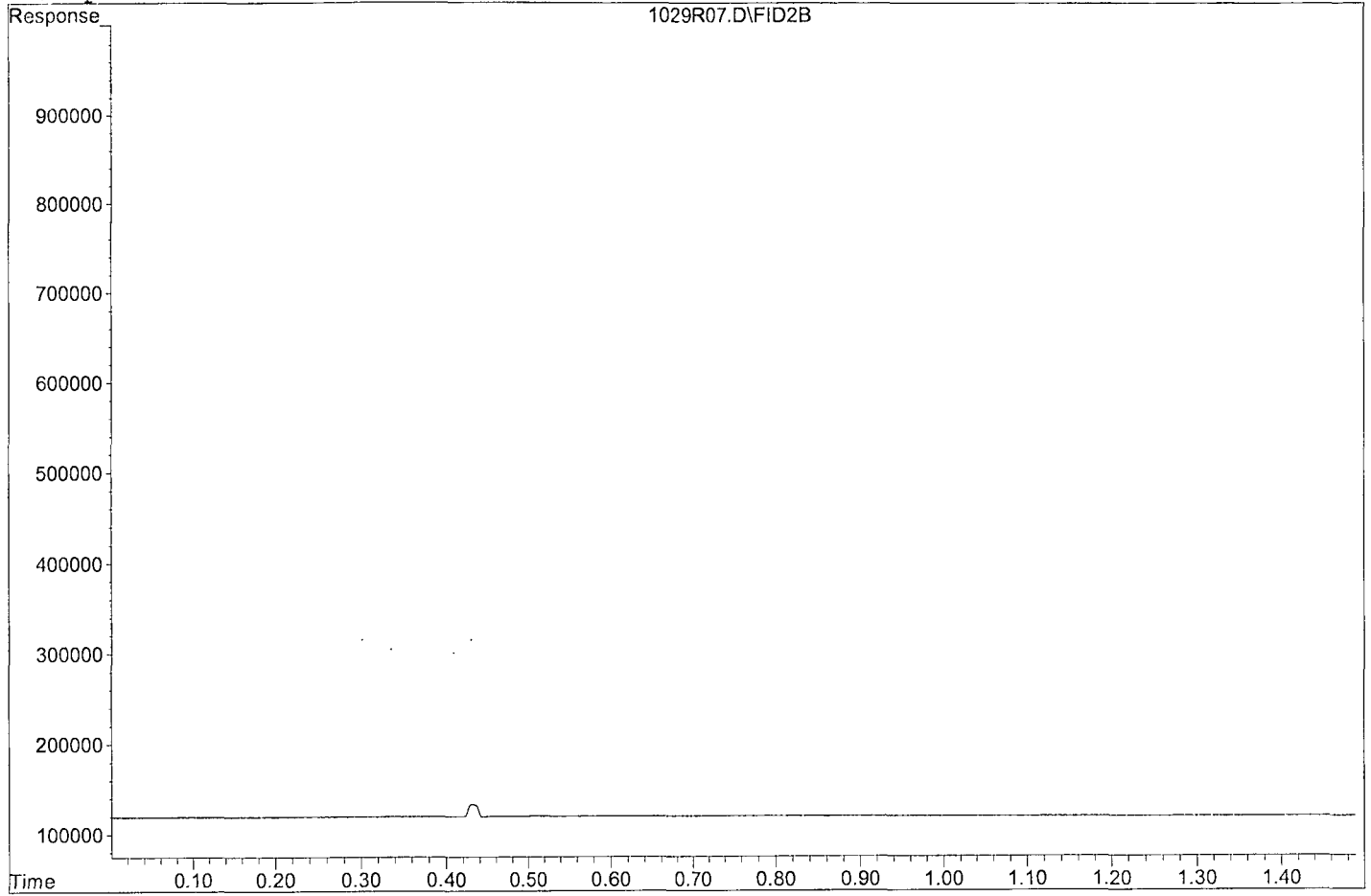
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R07.D

Sample : BA01774W02



Data File : G:\ROCKY\DATA\191002RS\1029R08.D Vial: 8
 Acq On : 29 Oct 19 17:55 Operator: GA
 Sample : BA01775W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:00 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

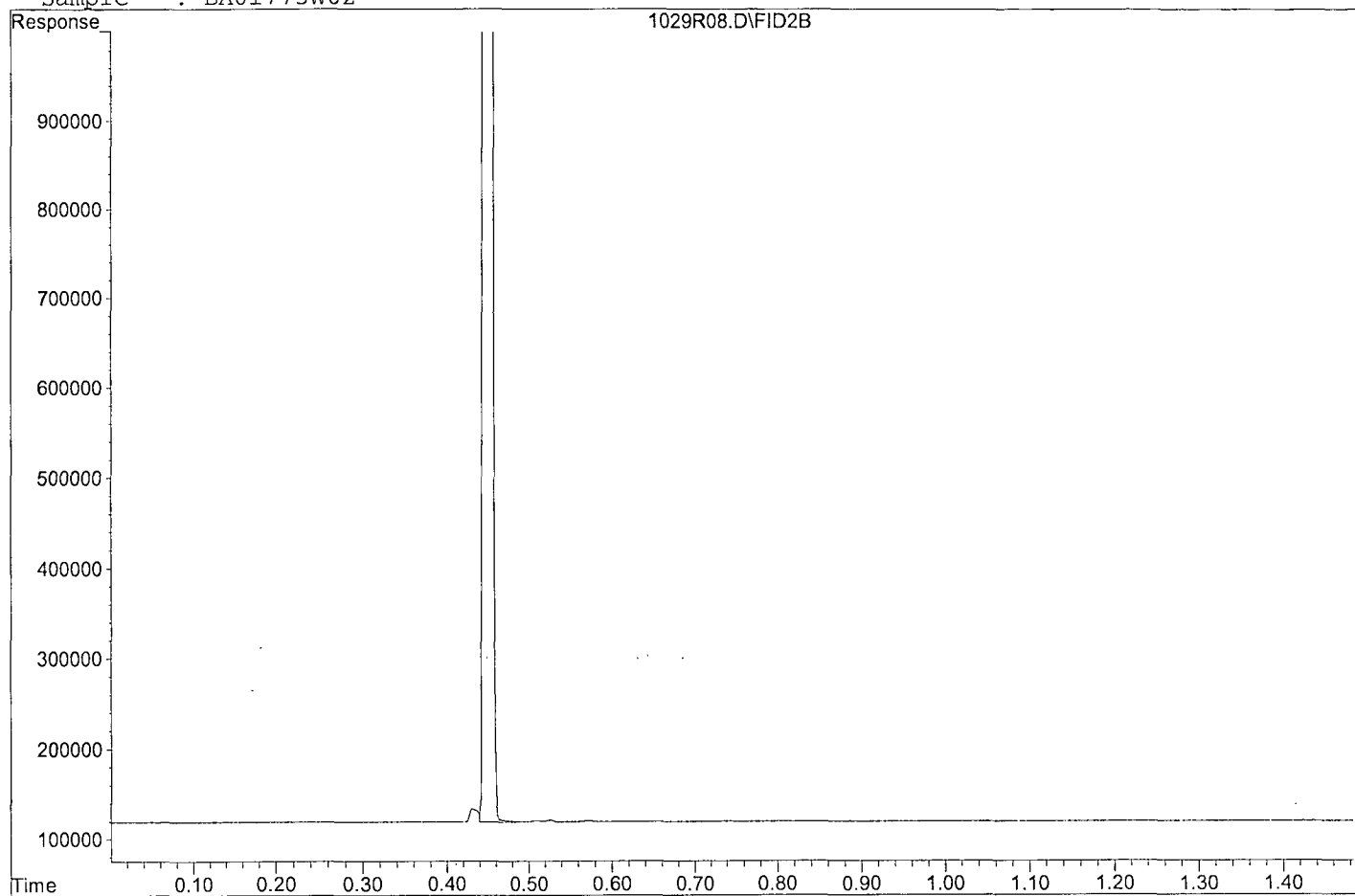
Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) ATM Methane	0.45	6926586	299.370	ppb
Target Compounds				
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Data File: G:\ROCKY\DATA\191002RS\1029R08.D

Sample : BA01775W02



Data File : G:\ROCKY\DATA\191002RS\1029R09.D Vial: 9
 Acq On : 29 Oct 19 18:01 Operator: GA
 Sample : BA01776W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:04 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

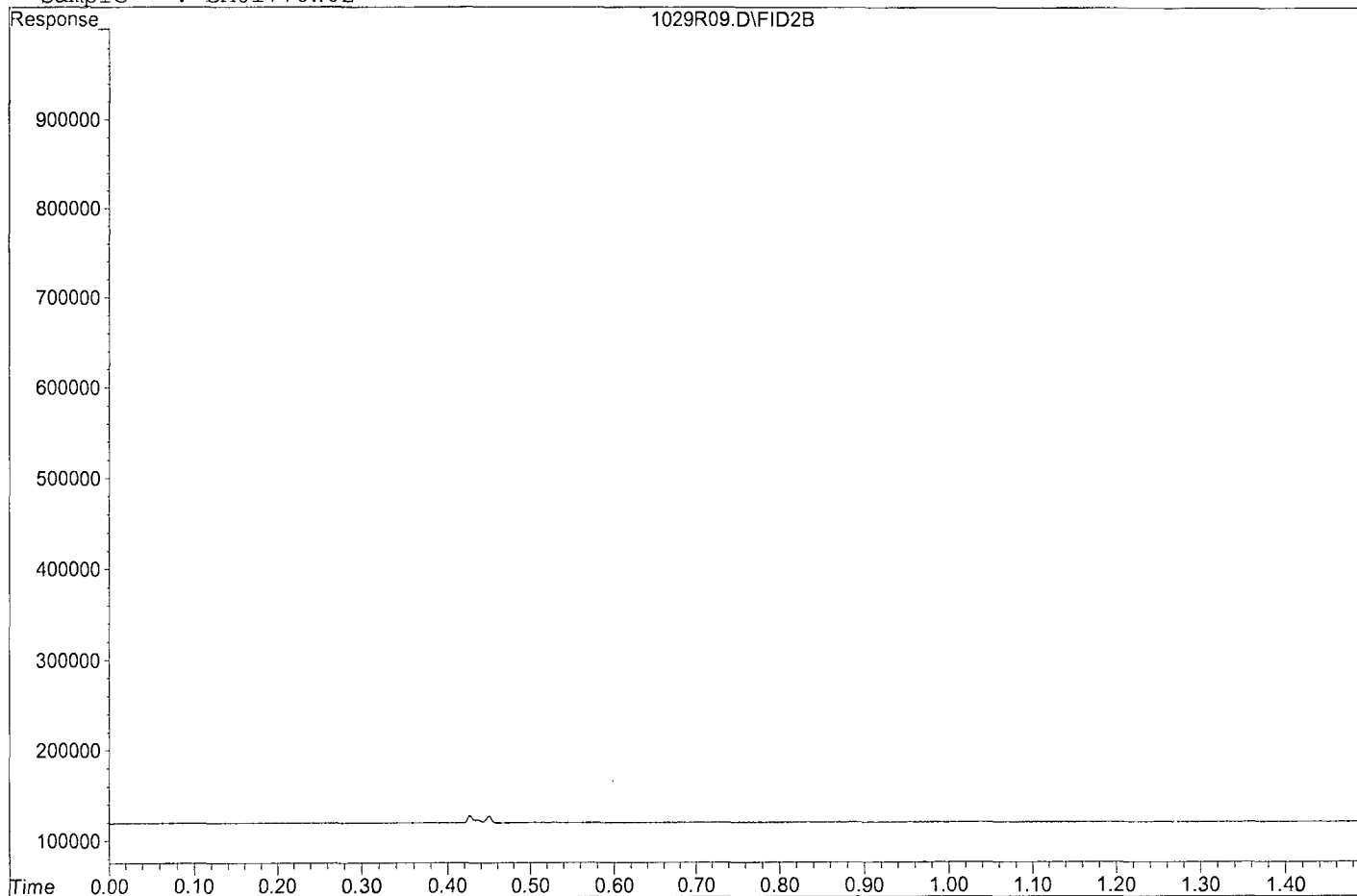
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R09.D

Sample : BA01776W02



Data File : G:\ROCKY\DATA\191002RS\1029R10.D Vial: 10
 Acq On : 29 Oct 19 18:05 Operator: GA
 Sample : BA01777W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:07 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

Target Compounds

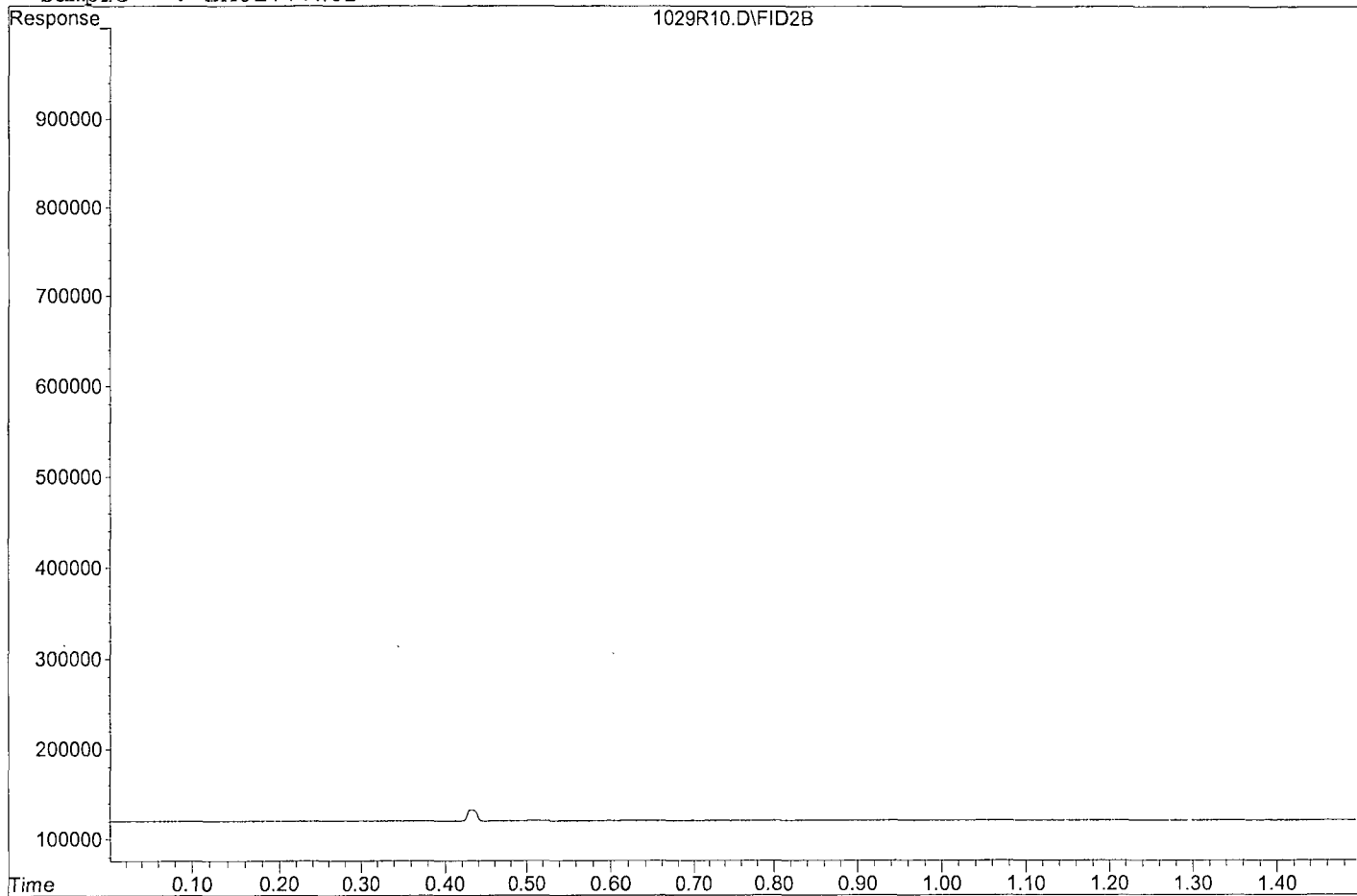
Target Compounds

1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R10.D

Sample : BA01777W02



Data File : G:\ROCKY\DATA\191002RS\1029R11.D Vial: 11
 Acq On : 29 Oct 19 18:08 Operator: GA
 Sample : BA01778W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:11 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
----------	------	----------	------	-------

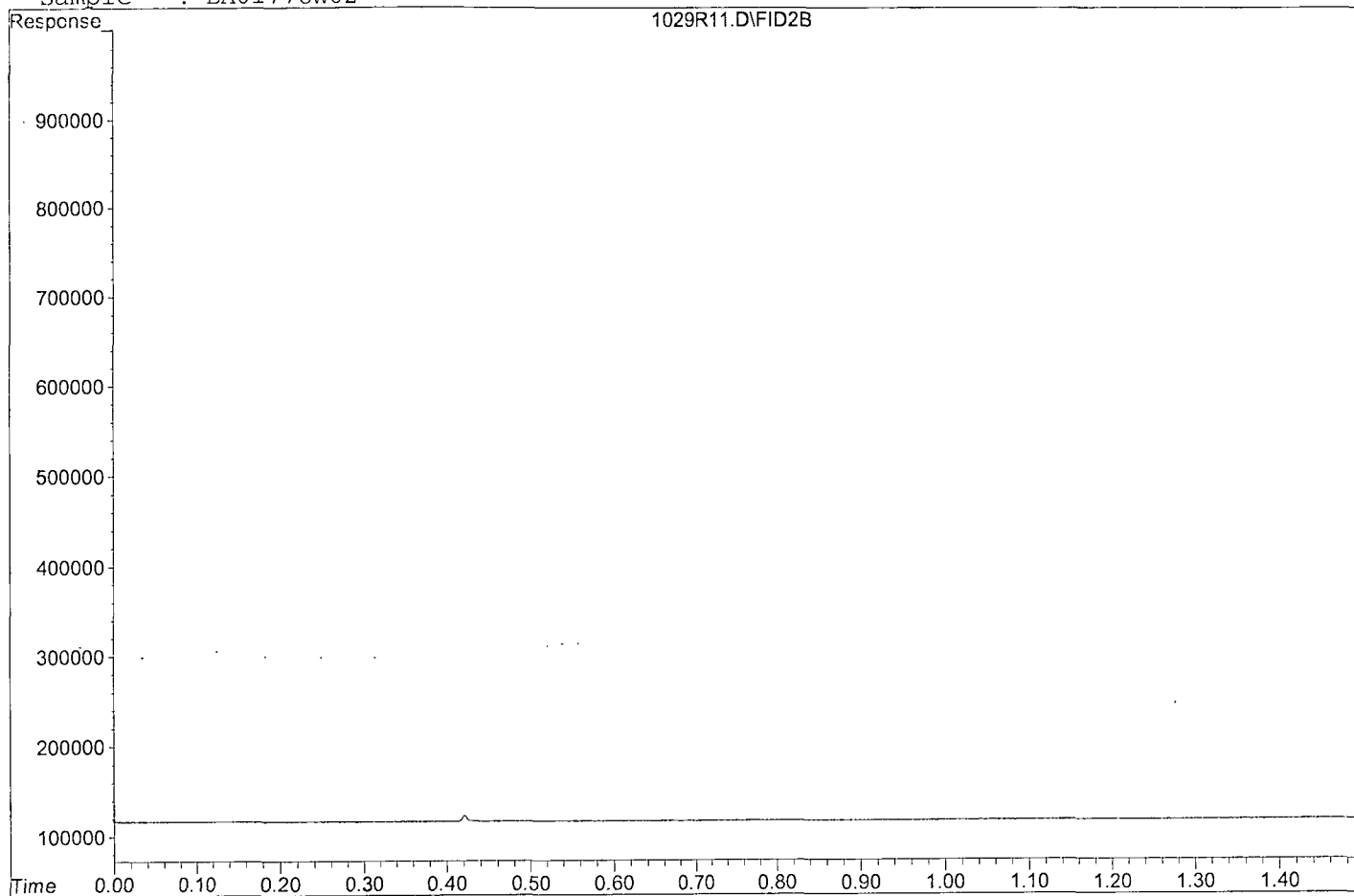
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R11.D

Sample : BA01778W02



Data File : G:\ROCKY\DATA\191002RS\1029R12.D Vial: 12
 Acq On : 29 Oct 19 18:12 Operator: GA
 Sample : BA01779W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:16 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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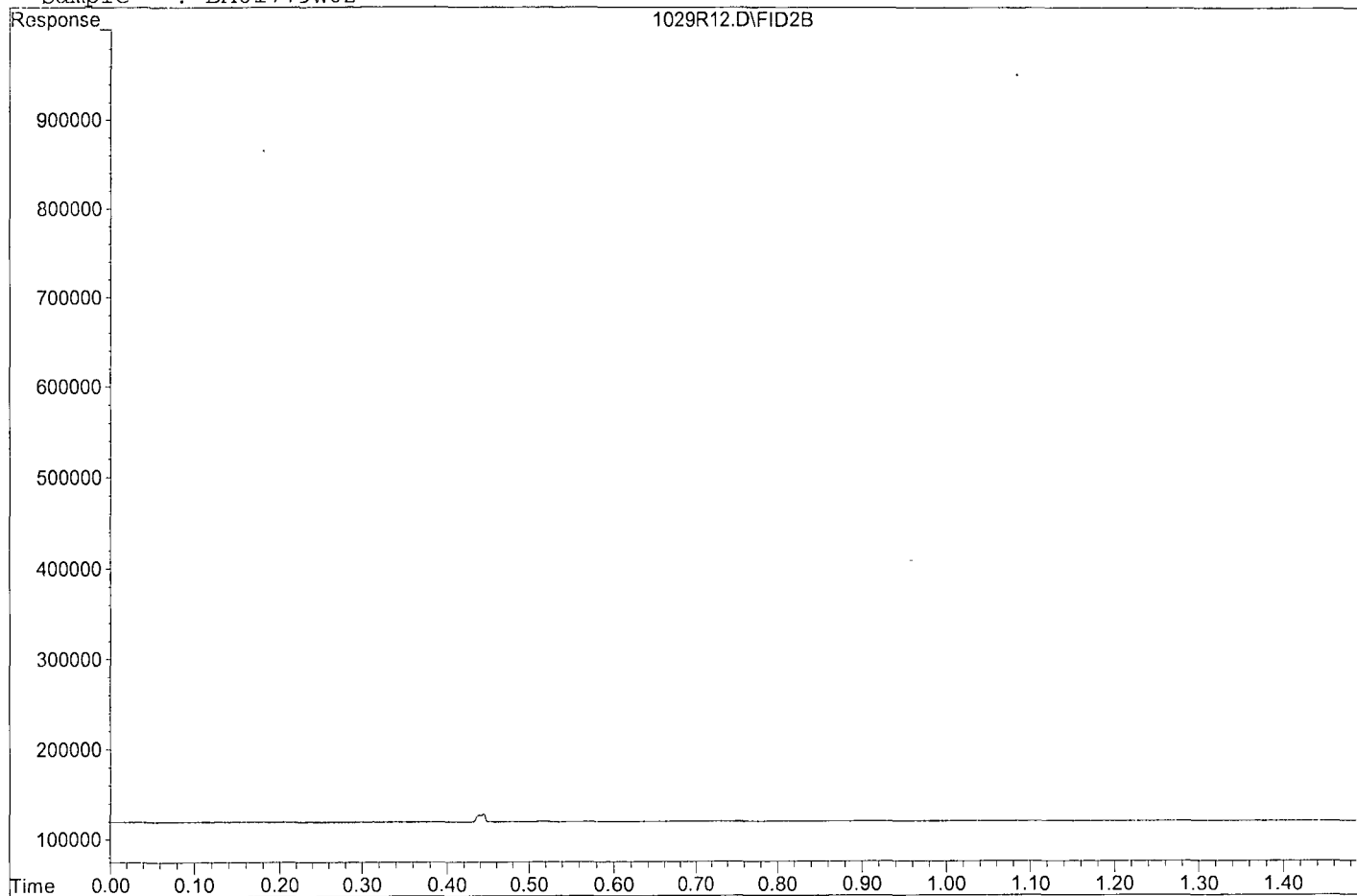
Target Compounds

Target Compounds

1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Data File: G:\ROCKY\DATA\191002RS\1029R12.D

Sample : BA01779W02



Data File : G:\ROCKY\DATA\191002RS\1029R13.D Vial: 13
 Acq On : 29 Oct 19 18:17 Operator: GA
 Sample : BA01783W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:20 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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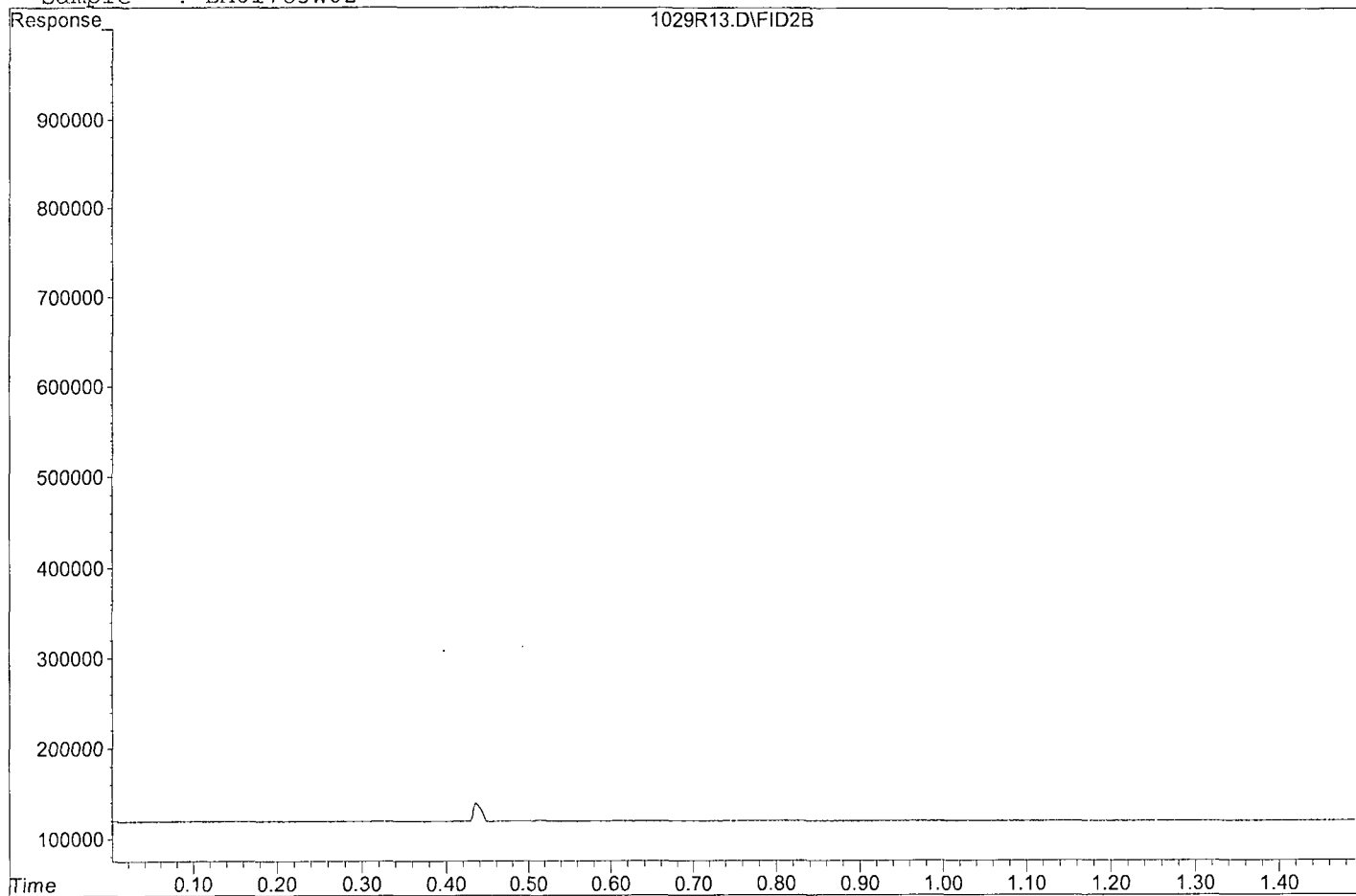
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R13.D

Sample : BA01783W02



Data File : G:\ROCKY\DATA\191002RS\1029R14.D Vial: 14
 Acq On : 29 Oct 19 18:21 Operator: GA
 Sample : BA01784W02 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 18:27 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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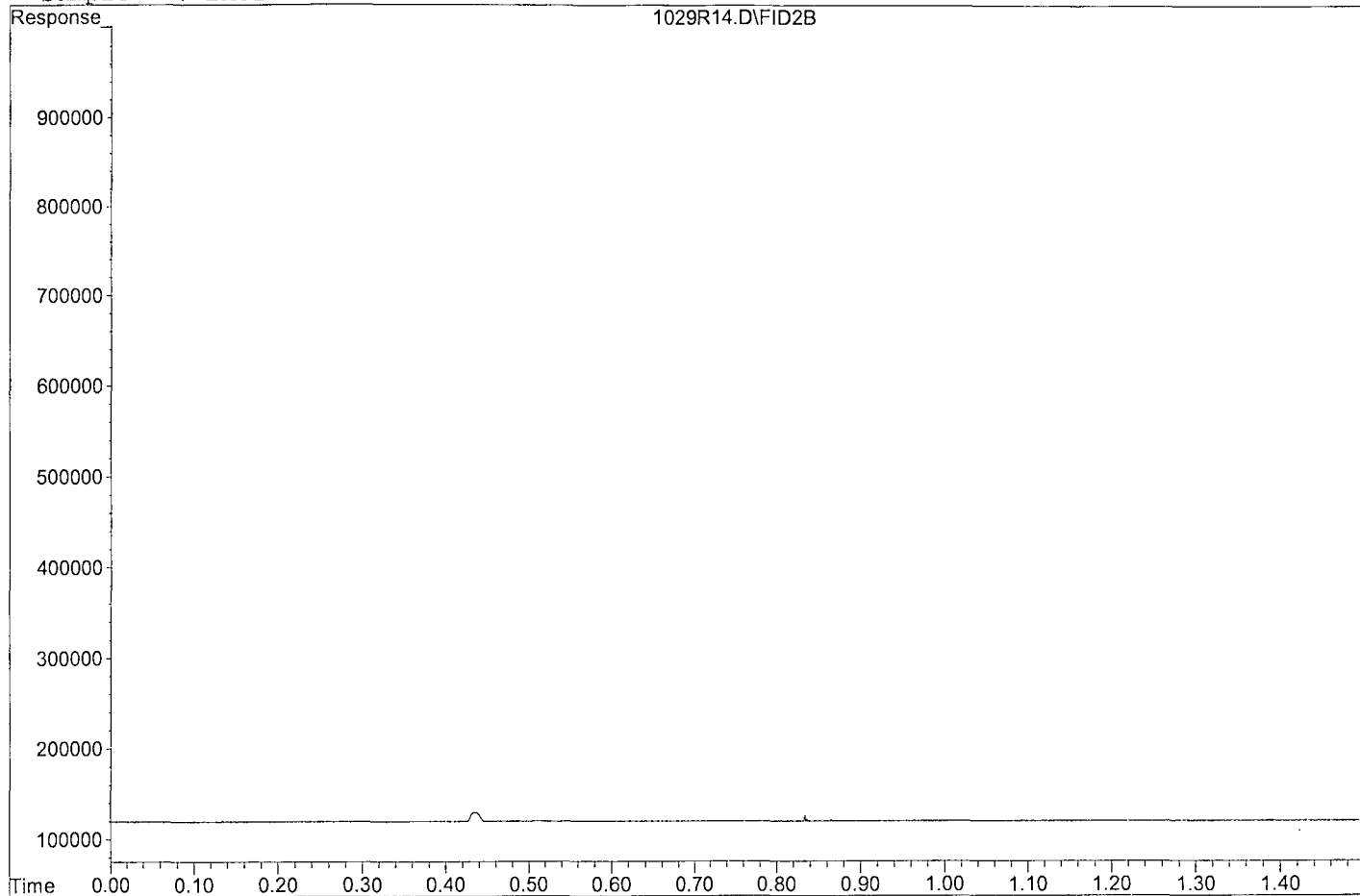
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R14.D

Sample : BA01784W02



Data File : G:\ROCKY\DATA\191002RS\1029R06.D Vial: 6
 Acq On : 29 Oct 19 17:42 Operator: GA
 Sample : 191029A BLK Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 17:53 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc	Units
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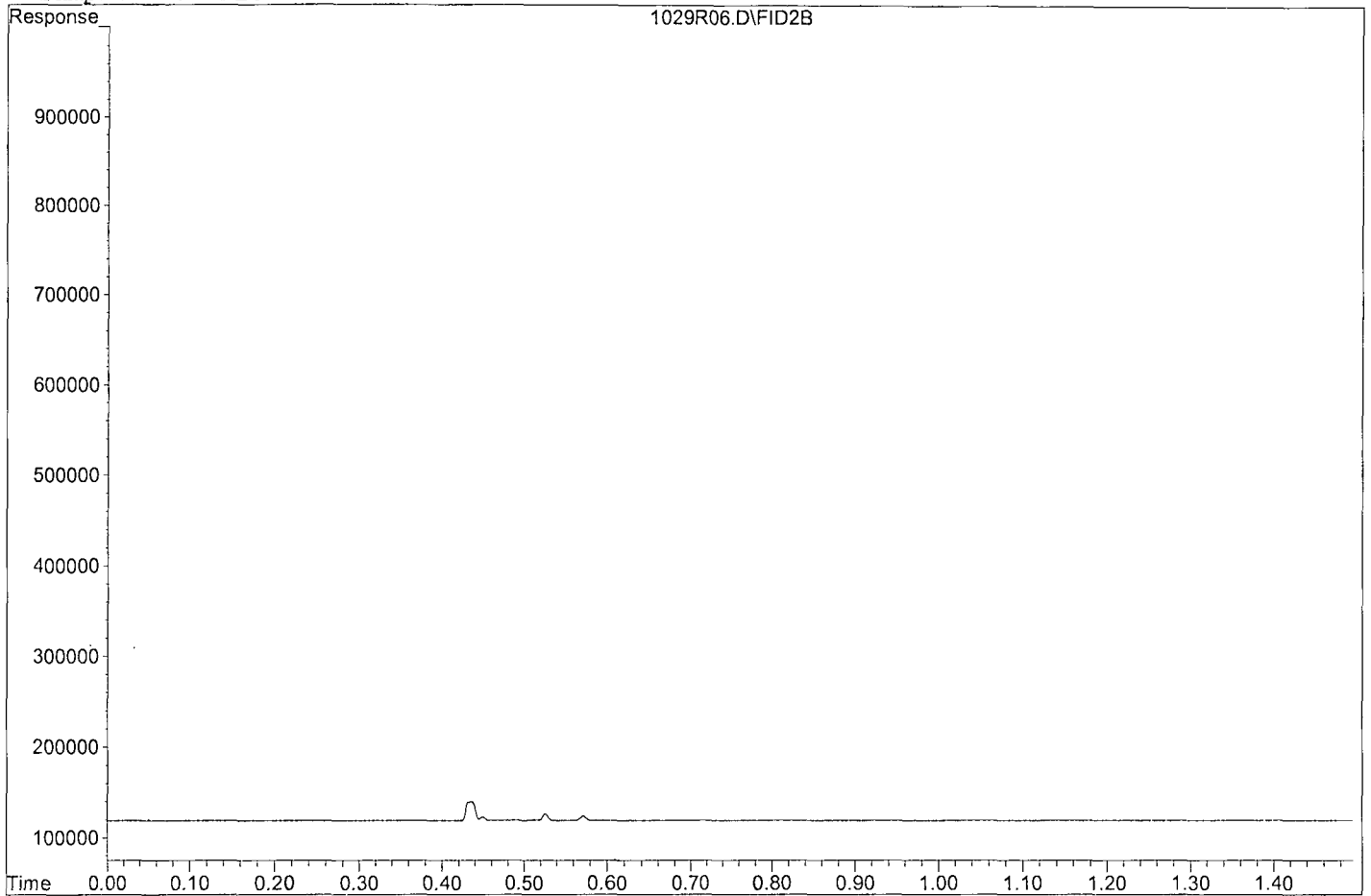
Target Compounds

Target Compounds	R.T.	Response	Conc	Units
1) ATM Methane	0.00	0	N.D.	ppb d
2) ATM Ethane	0.00	0	N.D.	ppb d
3) ATM Ethene	0.00	0	N.D.	ppb d

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R06.D

Sample : 191029A BLK



Quantitation Report (Not Reviewed)

Data File : G:\ROCKY\DATA\191002RS\1029R04.D Vial: 4
 Acq On : 29 Oct 19 17:17 Operator: GA
 Sample : 191029A LCS/CCV RSK STD 5 Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 17:37 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

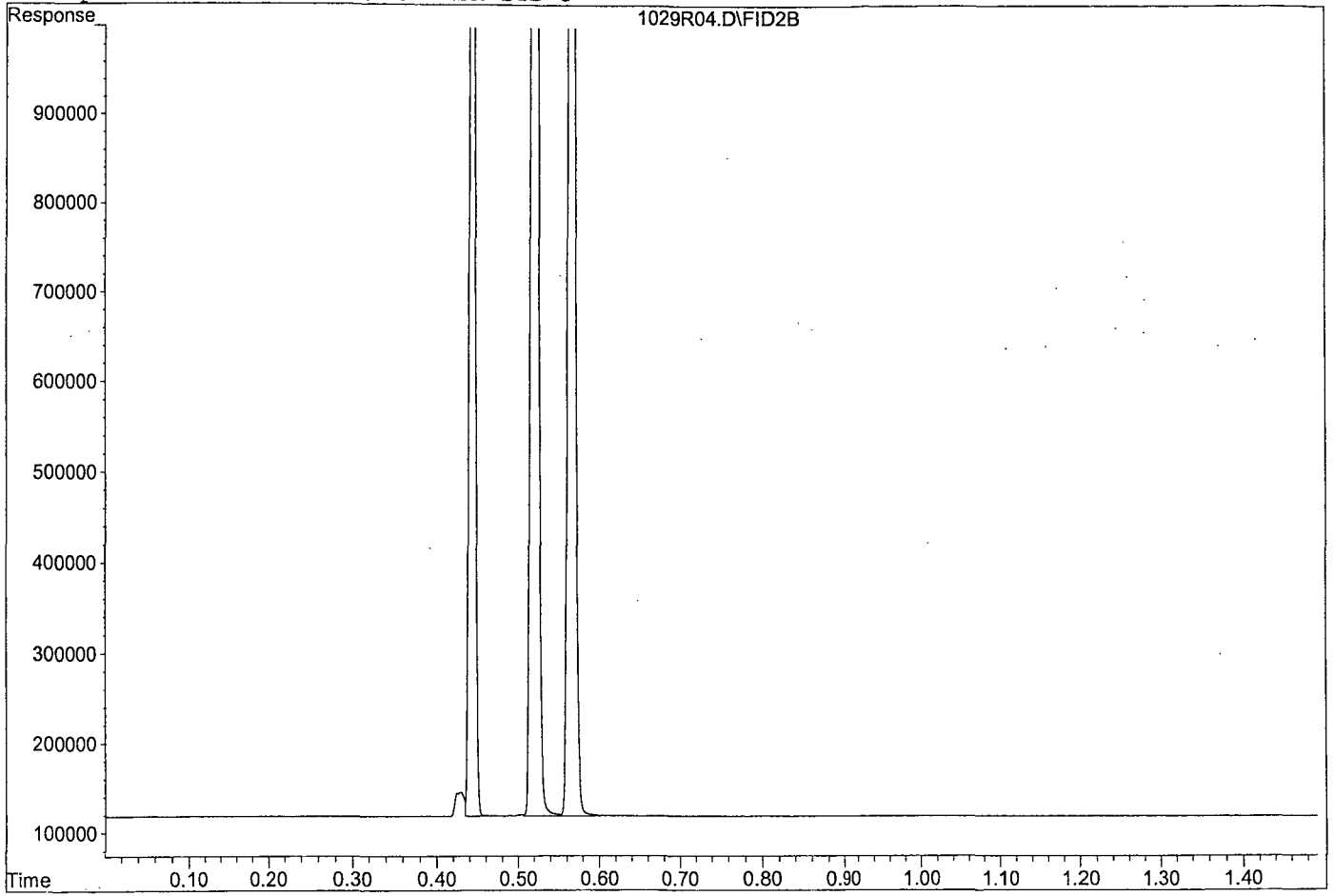
Target Compounds			
1) ATM Methane	0.44	1848809	79.906 ppb
2) ATM Ethane	0.52	2697562	158.498 ppb
3) ATM Ethene	0.57	1916665	143.168 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R04.D

Sample : 191029A LCS/CCV RSK STD 5



Data File : G:\ROCKY\DATA\191002RS\1029R05.D Vial: 5
 Acq On : 29 Oct 19 17:37 Operator: GA
 Sample : 191029A LCSD Inst : 7890
 Misc : Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Oct 29 17:41 2019 Quant Results File: RSK1002.RES

Method : G:\ROCKY\DATA\190929RS\RSK1002.M (Chemstation Integrator)
 Title : RSK 175
 Last Update : Mon Oct 28 16:28:47 2019
 Response via : Multiple Level Calibration

Volume Inj. : 0.500 mL
 Signal Phase : CARBOPACK
 Signal Info :

Compound	R.T.	Response	Conc Units

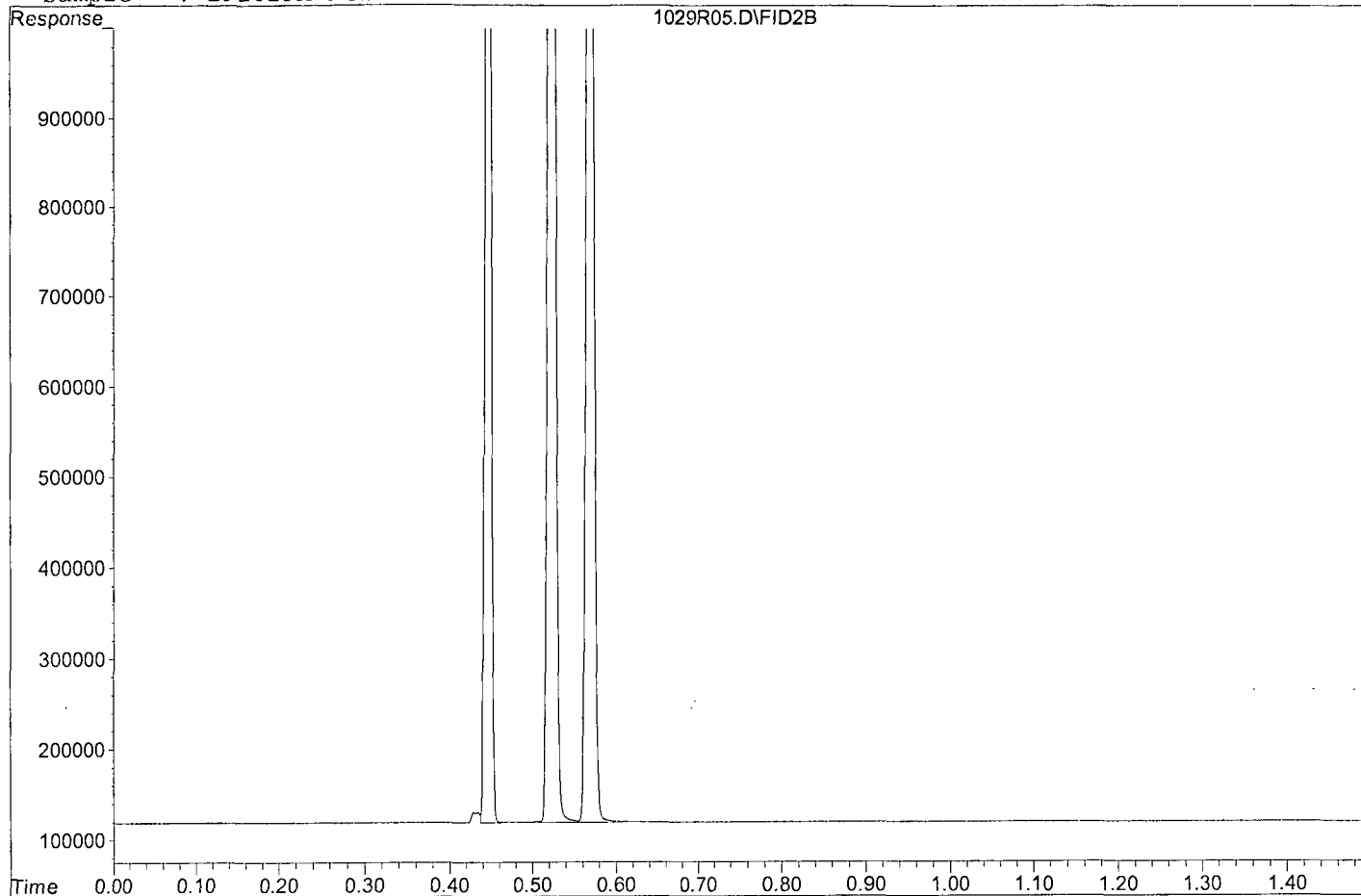
Target Compounds			
1) ATM Methane	0.45	1637915	70.791 ppb
2) ATM Ethane	0.52	2458546	144.454 ppb
3) ATM Ethene	0.57	1746105	130.428 ppb

Target Compounds

Quantitation Report

Data File: G:\ROCKY\DATA\191002RS\1029R05.D

Sample : 191029A LCSD



Primary Stock Source
10,000ppmV

Manufacture Expiration: 09/21/21

RSK Gas Mix (Scott Specialty Gas) CAT#X04NI97CP140001 LOT#160-401558175-1
 1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

RSK Calibration Curve (prepared in 1.0 L Tedlar Bags at room temp)

01/02/19

10/02/19

Analyte	Conc Std 1 (1/2 = LOD) (ug/L)	Conc Std 2 (LOQ Chk) (ug/L)	Conc Std 3 (ug/L)	Conc Std 4 (ug/L)	Conc Std 5 (ug/L)	Conc Std 6 (ug/L)	Conc Std 7 (ug/L)
Methane (MW 16.04)	2.08	4.16	8.34	20.85	83.40	208.5	834.0
Ethane (MW 30.07)	3.91	7.81	15.6	39.09	156.35	390.9	1563.5
Ethene (MW 28.05)	3.65	7.30	14.6	36.46	145.84	364.6	1458.4
Stock Source	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1	160-401558175-1
Stock Conc (ppmv)	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV	10,000 ppmV
Stock Aliquot (mL)	0.010	0.020	0.040	0.100	0.400	1.00	4.00
Final Volume P&T Water	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL	32 mL

Second Source Stock Standard 10,000ppmV

Manufacturer Exp date 9-21-2021

RSK Gas Mix (Scott Specialty Gas) Cat.# 23452, Lot # 160-401303032-1-39774
 1% Gas Concentration Moles = 10,000ppmV Methane, Ethane, Ethene

Second Source

Expires 10/03/19

10/02/19

2.0mL of SS from tank into 980 mL Nitrogen

final conc: 13.3ug/L Methane, 25.0 ug/L Ethane, and 23.3 ug/L Ethene

CCV/LCS/LCSD

GA 10/29/19

Spike 0.400mL of 10,000ppmV into 32mL DI water, with 8mL Nitrogen headspace
 final conc: 83.40ug/L Methane, 156.35ug/L Ethane, and 145.84ug/L Ethene

Injection Log

Directory: G:\ROCKY\DATA\191002RS\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1002R02.D	1	RSK STD 1 10/2/19		2 Oct 19 17:45
2	3	1002R03.D	1	RSK STD 2 10/2/19		2 Oct 19 17:50
3	4	1002R04.D	1	RSK STD 3 10/2/19		2 Oct 19 17:52
4	5	1002R05.D	1	RSK STD 4 10/2/19		2 Oct 19 17:57
5	6	1002R06.D	1	RSK STD 5 10/2/19		2 Oct 19 17:59
6	7	1002R07.D	1	RSK STD 6 10/2/19		2 Oct 19 18:05
7	8	1002R08.D	1	RSK STD 7 10/2/19		2 Oct 19 18:07
8	10	1002R10.D	1	SS RSK STD 5 10/2/19		2 Oct 19 18:24
9	4	1029R04.D	1	191029A LCS/CCV RSK STD 5		29 Oct 19 17:17
10	5	1029R05.D	1	191029A LCSD		29 Oct 19 17:37
11	6	1029R06.D	1	191029A BLK		29 Oct 19 17:42
12	7	1029R07.D	1	BA01774W02		29 Oct 19 17:46
13	8	1029R08.D	1	BA01775W02		29 Oct 19 17:55
14	9	1029R09.D	1	BA01776W02		29 Oct 19 18:01
15	10	1029R10.D	1	BA01777W02		29 Oct 19 18:05
16	11	1029R11.D	1	BA01778W02		29 Oct 19 18:08
17	12	1029R12.D	1	BA01779W02		29 Oct 19 18:12
18	13	1029R13.D	1	BA01783W02		29 Oct 19 18:17
19	14	1029R14.D	1	BA01784W02		29 Oct 19 18:21
20	19	1029R19.D	1	ENDING CCV RSK STD 5 10/29/19		29 Oct 19 18:45

METALS
Calibration Data

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC.Contract: AECOMARF No: 90551SDG: 90551Analysis Date: 10/30/19Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:14	%R(1)	True CCV1	Found 13:20	%R(1)	True CCV2	Found 13:58	%R(1)	
Calcium (Ca)	12500	12560	100	25000	25100	100	18750	18370	98.0	P
Potassium (K)	12500	12300	98.4	10000	9718	97.2	7500	7569	101	P
Magnesium (Mg)	12500	12780	102	25000	25160	101	18750	19450	104	P
Manganese (Mn)	500	499.4	99.9	500	502.4	100	375.5	370.5	98.7	P
Sodium (Na)	12500	12500	100	12500	12120	97.0	9375	9156	97.7	P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 90551

SDG: 90551

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 10/30/19

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C	U	1	C	2	C	3	C	C	U	
			09:29	13:25	14:03		13:30				
Calcium (Ca)	1000.00	U	1000.00	U	1000.00	U			1000.00	U	P
Potassium (K)	3000.00	U	3000.00	U	3000.00	U			3000.00	U	P
Magnesium (Mg)	500.00	U	500.00	U	500.00	U			500.00	U	P
Manganese (Mn)	1.83	J	10.00	U	10.00	U			10.00	U	P
Sodium (Na)	5000.00	U	5000.00	U	5000.00	U			5000.00	U	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.
 ARF No.: 90551
 ICP ID Number: Phoebe

Contract: AECOM
 SDG: 90551
 ICS Source: Environmental Express

Analysis Date: 10/30/19

Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 9:55	Sol AB 10:00	%R(1)
Aluminum (Al)	100000	100000	104400	109300	109
Calcium (Ca)	100000	100000	101300	106500	107
Iron (Fe)	100000	100000	97930	101300	101
Potassium (K)			-157.1	-105.4	
Magnesium (Mg)	100000	100000	101700	107200	107
Manganese (Mn)		250	-0.577	261.3	105
Sodium (Na)			73.49	74.45	

(1) Control Limits: Metals 80-120

Low Level ICV

Sample Name	Acq Date Time	Run Sequence	Analyte	Actual	Spiked	Control Limits	% Recovery	QC Flag
				Conc (ug/L)	Conc (ug/L)			
LLICV	10/30/19 9:34 AM	191030A	Silver	0.403	0.5	80-120%	81	
LLICV	10/30/19 9:34 AM	191030A	Aluminum	40.5	50	80-120%	81	
LLICVX2	10/30/19 9:39 AM	191030A	Arsenic	3.62	4	80-120%	91	
LLICVX2	10/30/19 9:39 AM	191030A	Boron	46.20	50	80-120%	92	
LLICV	10/30/19 9:34 AM	191030A	Barium	1.627	1.5	80-120%	108	
LLICV	10/30/19 9:34 AM	191030A	Beryllium	0.945	1	80-120%	95	
LLICVX2	10/30/19 9:39 AM	191030A	Calcium	117.50	100	80-120%	118	
LLICV	10/30/19 9:34 AM	191030A	Cadmium	0.29	0.25	80-120%	114	
LLICV	10/30/19 9:34 AM	191030A	Cobalt	2.614	2.5	80-120%	105	
LLICV	10/30/19 9:34 AM	191030A	Chromium	0.56	0.5	80-120%	112	
LLICVX2	10/30/19 9:39 AM	191030A	Copper	5.53	5	80-120%	111	
LLICV	10/30/19 9:34 AM	191030A	Iron	27.73	25	80-120%	111	
LLICV	10/30/19 9:34 AM	191030A	Potassium	430.5	500	80-120%	86	
LLICV	10/30/19 9:34 AM	191030A	Magnesium	26.90	25	80-120%	108	
LLICVX6	10/30/19 9:44 AM	191030A	Manganese	6.78	6	80-120%	113	
LLICV	10/30/19 9:34 AM	191030A	Molybdenum	1.04	1	80-120%	104	
LLICV	10/30/19 9:34 AM	191030A	Sodium	496.6	500	80-120%	99	
LLICV	10/30/19 9:34 AM	191030A	Nickel	1.197	1	80-120%	120	
LLICV	10/30/19 9:34 AM	191030A	Phosphorus	10.03	12.5	80-120%	80	
LLICVX2	10/30/19 9:39 AM	191030A	Lead	2.63	3	80-120%	88	
LLICVX2	10/30/19 9:39 AM	191030A	Antimony	3.53	4	80-120%	88	
LLICV25	10/30/19 10:22:AM	191030A	Selenium	26.91	25.00	80-120%	108	
LLICV	10/30/19 9:34 AM	191030A	Tin	2.697	3	80-120%	90	
LLICVX2	10/30/19 9:39 AM	191030A	Strontium	2.007	2	80-120%	100	
LLICV	10/30/19 9:34 AM	191030A	Titanium	2.06	2.5	80-120%	82	
LLICV5	10/30/19 10:13 AM	191030A	Thallium	5.79	5.00	80-120%	116	
LLICV	10/30/19 9:34 AM	191030A	Vanadium	0.50	0.5	80-120%	100	
LLICV	10/30/19 9:34 AM	191030A	Zinc	26.76	25	80-120%	107	

```

=====
Sequence No.: 1                               Autosampler Location: 1
Sample ID: CalBlk 191030 I:PB O:PW           Date Collected: 10/30/19 8:56:52 AM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:33 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====
    
```

Mean Data: CalBlk 191030 I:PB O:PW

Analyte	Mean Corrected	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1265196.0	14645.00	1.16%	100.0	%
Y 371.029 Radial	1209055.5	14810.81	1.22%	100.0	%
Ag 338.289†	-171.1	73.62	43.03%	[0.00]	ug/L
Al 308.215†	37.2	3.92	10.56%	[0.00]	ug/L
As 188.979†	-69.1	8.17	11.83%	[0.00]	ug/L
B†	174.9	12.02	6.87%	[0.00]	ug/L
Ba 233.527†	97.8	4.31	4.41%	[0.00]	ug/L
Be 313.107†	5.0	5.43	109.66%	{0.00}	ug/L
Ca 315.887†	14.4	10.33	71.76%	[0.00]	ug/L
Cd 214.440†	-254.0	3.67	1.44%	[0.00]	ug/L
Co 228.616†	82.6	17.40	21.06%	[0.00]	ug/L
Cr 267.716†	243.9	25.47	10.44%	[0.00]	ug/L
Cu 327.393†	-496.0	170.89	34.46%	[0.00]	ug/L
Fe 273.955†	34.9	3.90	11.18%	[0.00]	ug/L
K 766.490†	1604.6	71.42	4.45%	[0.00]	ug/L
Mg 285.213†	-13.5	4.45	33.06%	[0.00]	ug/L
Mn 257.610†	-91.0	4.64	5.09%	[0.00]	ug/L
Mo 202.031†	53.9	1.01	1.87%	[0.00]	ug/L
Na 589.592†	1290.9	115.02	8.91%	[0.00]	ug/L
Ni 231.604†	51.1	20.36	39.81%	[0.00]	ug/L
P 213.617†	-120.5	2.32	1.92%	[0.00]	ug/L
Pb 220.353†	18.0	2.05	11.38%	[0.00]	ug/L
Sb 206.836†	-29.8	2.24	7.54%	[0.00]	ug/L
Se 196.026†	-1.3	3.18	242.44%	[0.00]	ug/L
Sn 189.927†	11.2	5.15	46.11%	[0.00]	ug/L
Sr 421.552†	-124.7	76.29	61.16%	[0.00]	ug/L
Ti 337.279†	-127.7	11.36	8.89%	[0.00]	ug/L
Tl 190.801†	-101.9	3.22	3.16%	[0.00]	ug/L
V 292.402†	-350.1	83.35	23.81%	[0.00]	ug/L
Zn 206.200†	-463.8	9.66	2.08%	[0.00]	ug/L

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Sequence No.: 2                               Autosampler Location: 2
Sample ID: STD 1 191030 I:PB O:PW           Date Collected: 10/30/19 9:01:35 AM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:36 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: STD 1 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1268026.0	17466.24	1.38%	100.2	%
Y 371.029 Radial	1211618.7	17709.68	1.46%	100.2	%
Ag 338.289†	20.2	63.54	314.42%	[0.5]	ug/L
Al 308.215†	13.3	5.23	39.38%	[50]	ug/L
As 188.979†	15.8	10.33	65.28%	[2]	ug/L
B†	1084.2	4.39	0.40%	[25]	ug/L
Ba 233.527†	180.0	9.01	5.00%	[1.5]	ug/L
Be 313.107†	57.1	5.87	10.29%	[1]	ug/L
Ca 315.887†	97.6	7.66	7.85%	[50]	ug/L
Cd 214.440†	18.8	11.34	60.42%	[0.25]	ug/L
Co 228.616†	129.7	15.16	11.69%	[2.5]	ug/L
Cr 267.716†	49.2	9.14	18.58%	[0.5]	ug/L
Cu 327.393†	196.6	50.03	25.45%	[2.5]	ug/L
Fe 273.955†	438.2	17.19	3.92%	[25]	ug/L
K 766.490†	1011.1	77.12	7.63%	[500]	ug/L
Mg 285.213†	54.3	5.94	10.93%	[25]	ug/L
Mn 257.610†	14.3	7.73	54.23%	[1]	ug/L
Mo 202.031†	21.3	8.74	41.08%	[1]	ug/L
Na 589.592†	1384.6	104.88	7.57%	[500]	ug/L
Ni 231.604†	45.5	4.66	10.24%	[1]	ug/L
P 213.617†	40.6	3.91	9.61%	[12.5]	ug/L
Pb 220.353†	13.6	10.82	79.67%	[1.5]	ug/L
Sb 206.836†	4.5	2.24	49.22%	[2]	ug/L
Se 196.026†	5.6	13.25	236.48%	[2]	ug/L
Sn 189.927†	32.4	1.27	3.92%	[3]	ug/L
Sr 421.552†	167.8	52.45	31.25%	[1]	ug/L
Ti 337.279†	15.6	6.84	43.79%	[2.5]	ug/L
Tl 190.801†	11.9	3.06	25.81%	[2]	ug/L
V 292.402†	77.8	60.84	78.18%	[0.5]	ug/L
Zn 206.200†	1295.3	4.63	0.36%	[25]	ug/L

Sequence No.: 3
 Sample ID: STD 2 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 10/30/19 9:06:28 AM
 Data Type: Reprocessed on 10/31/19 1:15:38 PM
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: STD 2 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1212292.0	12033.70	0.99%	95.82	%
Y 371.029 Radial	1155348.4	11972.77	1.04%	95.56	%
Ag 338.289†	18252.9	247.73	1.36%	[250]	ug/L
Al 308.215†	2640.1	28.45	1.08%	[10000]	ug/L
As 188.979†	1601.2	11.73	0.73%	[500]	ug/L
B†	20766.6	212.99	1.03%	[500]	ug/L
Ba 233.527†	53490.1	558.73	1.04%	[500]	ug/L
Be 313.107†	31318.9	146.06	0.47%	[500]	ug/L
Ca 315.887†	34286.8	394.73	1.15%	[25000]	ug/L
Cd 214.440†	69981.5	760.79	1.09%	[500]	ug/L
Co 228.616†	23277.7	170.82	0.73%	[500]	ug/L
Cr 267.716†	37802.5	337.47	0.89%	[500]	ug/L
Cu 327.393†	41242.1	339.85	0.82%	[500]	ug/L
Fe 273.955†	156164.6	1695.77	1.09%	[10000]	ug/L
K 766.490†	19022.1	146.18	0.77%	[10000]	ug/L
Mg 285.213†	53115.8	46.24	0.09%	[25000]	ug/L
Mn 257.610†	2891.3	35.80	1.24%	[500]	ug/L
Mo 202.031†	13320.7	138.77	1.04%	[500]	ug/L
Na 589.592†	38102.8	196.26	0.52%	[12500]	ug/L
Ni 231.604†	18991.5	203.80	1.07%	[500]	ug/L
P 213.617†	8257.2	87.06	1.05%	[2500]	ug/L
Pb 220.353†	5098.0	57.79	1.13%	[500]	ug/L
Sb 206.836†	1996.3	29.52	1.48%	[500]	ug/L
Se 196.026†	1399.2	17.17	1.23%	[500]	ug/L
Sn 189.927†	4735.2	42.24	0.89%	[500]	ug/L
Sr 421.552†	68651.1	207.34	0.30%	[500]	ug/L
Ti 337.279†	3513.1	52.76	1.50%	[500]	ug/L
Tl 190.801†	2071.9	23.72	1.14%	[500]	ug/L
V 292.402†	68966.4	732.98	1.06%	[500]	ug/L
Zn 206.200†	24629.0	227.65	0.92%	[500]	ug/L

Sequence No.: 4
 Sample ID: STD 3 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 10/30/19 9:11:10 AM
 Data Type: Reprocessed on 10/31/19 1:15:40 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: STD 3 191030 I:PB O:PW

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	1186935.1	10126.54	0.85%	93.81	%
Y 371.029 Radial	1130125.2	10207.49	0.90%	93.47	%
Ag 338.289†	36790.4	437.37	1.19%	[500]	ug/L
Al 308.215†	5236.4	87.27	1.67%	[20000]	ug/L
As 188.979†	3231.4	19.33	0.60%	[1000]	ug/L
B†	42183.1	266.65	0.63%	[1000]	ug/L
Ba 233.527†	107265.0	918.39	0.86%	[1000]	ug/L
Be 313.107†	63234.0	771.29	1.22%	[1000]	ug/L
Ca 315.887†	67804.4	1658.40	2.45%	[50000]	ug/L
Cd 214.440†	139385.1	862.09	0.62%	[1000]	ug/L
Co 228.616†	46514.5	390.10	0.84%	[1000]	ug/L
Cr 267.716†	75741.3	429.46	0.57%	[1000]	ug/L
Cu 327.393†	83698.5	598.26	0.71%	[1000]	ug/L
Fe 273.955†	312908.5	2470.23	0.79%	[20000]	ug/L
K 766.490†	39114.0	604.46	1.55%	[20000]	ug/L
Mg 285.213†	106513.2	945.59	0.89%	[50000]	ug/L
Mn 257.610†	5730.4	122.32	2.13%	[1000]	ug/L
Mo 202.031†	26576.5	222.77	0.84%	[1000]	ug/L
Na 589.592†	77241.9	738.85	0.96%	[25000]	ug/L
Ni 231.604†	37678.0	246.98	0.66%	[1000]	ug/L
P 213.617†	16671.1	129.37	0.78%	[5000]	ug/L
Pb 220.353†	10016.4	70.30	0.70%	[1000]	ug/L
Sb 206.836†	3995.4	34.14	0.85%	[1000]	ug/L
Se 196.026†	2799.0	32.65	1.17%	[1000]	ug/L
Sn 189.927†	9359.7	65.91	0.70%	[1000]	ug/L
Sr 421.552†	138618.9	1369.33	0.99%	[1000]	ug/L
Ti 337.279†	6975.1	199.81	2.86%	[1000]	ug/L
Tl 190.801†	4102.5	37.55	0.92%	[1000]	ug/L
V 292.402†	139507.1	999.95	0.72%	[1000]	ug/L
Zn 206.200†	49055.3	439.88	0.90%	[1000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	73.47	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	0.2623	0.00000	0.999994	
As 188.979	3	Lin Thru 0	0.0	3.226	0.00000	0.999990	
B	3	Lin Thru 0	0.0	42.05	0.00000	0.999981	
Ba 233.527	3	Lin Thru 0	0.0	107.2	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	63.11	0.00000	0.999993	
Ca 315.887	3	Lin Thru 0	0.0	1.359	0.00000	0.999990	
Cd 214.440	3	Lin Thru 0	0.0	139.5	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	46.52	0.00000	1.000000	
Cr 267.716	3	Lin Thru 0	0.0	75.71	0.00000	1.000000	
Cu 327.393	3	Lin Thru 0	0.0	83.46	0.00000	0.999983	
Fe 273.955	3	Lin Thru 0	0.0	15.64	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	1.945	0.00000	0.999939	
Mg 285.213	3	Lin Thru 0	0.0	2.129	0.00000	0.999999	
Mn 257.610	3	Lin Thru 0	0.0	5.741	0.00000	0.999992	
Mo 202.031	3	Lin Thru 0	0.0	26.59	0.00000	1.000000	
Na 589.592	3	Lin Thru 0	0.0	3.081	0.00000	0.999984	
Ni 231.604	3	Lin Thru 0	0.0	37.74	0.00000	0.999995	
P 213.617	3	Lin Thru 0	0.0	3.328	0.00000	0.999993	
Pb 220.353	3	Lin Thru 0	0.0	10.05	0.00000	0.999974	
Sb 206.836	3	Lin Thru 0	0.0	3.995	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	2.799	0.00000	1.000000	
Sn 189.927	3	Lin Thru 0	0.0	9.382	0.00000	0.999989	
Sr 421.552	3	Lin Thru 0	0.0	138.4	0.00000	0.999993	

Ti 337.279	3	Lin Thru 0	0.0	6.985	0.00000	0.999996
Tl 190.801	3	Lin Thru 0	0.0	4.111	0.00000	0.999992
V 292.402	3	Lin Thru 0	0.0	139.2	0.00000	0.999990
Zn 206.200	3	Lin Thru 0	0.0	49.10	0.00000	0.999998

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Sequence No.: 5                               Autosampler Location: 5
Sample ID: ICV 191030 I:PB O:PW              Date Collected: 10/30/19 9:14:58 AM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:41 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: ICV 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1212578.6	95.84 %	0.403			0.42%
Y 371.029 Radial	1155898.3	95.60 %	0.408			0.43%
Ag 338.289†	18399.5	252.6 ug/L	1.16	252.6 ug/L	1.16	0.46%
QC value within limits for Ag 338.289 Recovery = 101.05%						
Al 308.215†	3320.7	12670 ug/L	108.8	12670 ug/L	108.8	0.86%
QC value within limits for Al 308.215 Recovery = 101.35%						
As 188.979†	1601.0	500.6 ug/L	2.68	500.6 ug/L	2.68	0.54%
QC value within limits for As 188.979 Recovery = 100.12%						
B†	21331.5	507.2 ug/L	1.12	507.2 ug/L	1.12	0.22%
QC value within limits for B Recovery = 101.45%						
Ba 233.527†	54032.5	503.2 ug/L	2.59	503.2 ug/L	2.59	0.51%
QC value within limits for Ba 233.527 Recovery = 100.64%						
Be 313.107†	30922.9	491.5 ug/L	6.12	491.5 ug/L	6.12	1.25%
QC value within limits for Be 313.107 Recovery = 98.29%						
Ca 315.887†	17080.2	12560 ug/L	111.8	12560 ug/L	111.8	0.89%
QC value within limits for Ca 315.887 Recovery = 100.50%						
Cd 214.440†	70454.1	504.9 ug/L	1.46	504.9 ug/L	1.46	0.29%
QC value within limits for Cd 214.440 Recovery = 100.99%						
Co 228.616†	23767.7	509.0 ug/L	1.44	509.0 ug/L	1.44	0.28%
QC value within limits for Co 228.616 Recovery = 101.79%						
Cr 267.716†	37891.4	499.7 ug/L	2.07	499.7 ug/L	2.07	0.41%
QC value within limits for Cr 267.716 Recovery = 99.95%						
Cu 327.393†	41880.5	503.1 ug/L	2.89	503.1 ug/L	2.89	0.57%
QC value within limits for Cu 327.393 Recovery = 100.63%						
Fe 273.955†	212635.9	13550 ug/L	55.7	13550 ug/L	55.7	0.41%
QC value within limits for Fe 273.955 Recovery = 108.42%						
K 766.490†	23942.3	12300 ug/L	140.2	12300 ug/L	140.2	1.14%
QC value within limits for K 766.490 Recovery = 98.38%						
Mg 285.213†	27190.9	12780 ug/L	107.9	12780 ug/L	107.9	0.84%
QC value within limits for Mg 285.213 Recovery = 102.28%						
Mn 257.610†	2863.0	499.4 ug/L	4.20	499.4 ug/L	4.20	0.84%
QC value within limits for Mn 257.610 Recovery = 99.88%						
Mo 202.031†	13040.6	490.7 ug/L	2.26	490.7 ug/L	2.26	0.46%
QC value within limits for Mo 202.031 Recovery = 98.14%						
Na 589.592†	38474.6	12500 ug/L	116.6	12500 ug/L	116.6	0.93%
QC value within limits for Na 589.592 Recovery = 99.97%						
Ni 231.604†	19296.1	507.7 ug/L	3.69	507.7 ug/L	3.69	0.73%
QC value within limits for Ni 231.604 Recovery = 101.53%						
P 213.617†	8168.3	2454 ug/L	16.2	2454 ug/L	16.2	0.66%
QC value within limits for P 213.617 Recovery = 98.18%						
Pb 220.353†	5118.2	511.7 ug/L	3.18	511.7 ug/L	3.18	0.62%
QC value within limits for Pb 220.353 Recovery = 102.35%						
Sb 206.836†	1872.4	468.7 ug/L	1.65	468.7 ug/L	1.65	0.35%
QC value within limits for Sb 206.836 Recovery = 93.74%						
Se 196.026†	1397.4	505.1 ug/L	4.36	505.1 ug/L	4.36	0.86%
QC value within limits for Se 196.026 Recovery = 101.03%						
Sn 189.927†	2322.5	251.1 ug/L	2.00	251.1 ug/L	2.00	0.80%
QC value within limits for Sn 189.927 Recovery = 100.46%						
Sr 421.552†	68265.9	493.3 ug/L	4.61	493.3 ug/L	4.61	0.94%
QC value within limits for Sr 421.552 Recovery = 98.65%						
Ti 337.279†	3457.6	494.7 ug/L	4.13	494.7 ug/L	4.13	0.84%
QC value within limits for Ti 337.279 Recovery = 98.94%						
Tl 190.801†	2091.5	521.2 ug/L	4.49	521.2 ug/L	4.49	0.86%
QC value within limits for Tl 190.801 Recovery = 104.24%						
V 292.402†	68750.4	501.3 ug/L	2.12	501.3 ug/L	2.12	0.42%
QC value within limits for V 292.402 Recovery = 100.25%						
Zn 206.200†	25062.9	514.0 ug/L	0.19	514.0 ug/L	0.19	0.04%
QC value within limits for Zn 206.200 Recovery = 102.79%						

All analyte(s) passed QC.

Sequence No.: 6
 Sample ID: LLICV 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 10/30/19 9:34:36 AM
 Data Type: Reprocessed on 10/31/19 1:15:43 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LLICV 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1272000.9	100.5 %		0.68			0.67%
Y 371.029 Radial	1216118.0	100.6 %		0.72			0.72%
Ag 338.289†	27.9	0.403 ug/L		0.7357	0.403 ug/L	0.7357	182.67%
QC value within limits for Ag 338.289 Recovery = 80.56%							
Al 308.215†	10.6	40.48 ug/L		3.948	40.48 ug/L	3.948	9.75%
QC value within limits for Al 308.215 Recovery = 80.96%							
As 188.979†	11.2	3.502 ug/L		0.2662	3.502 ug/L	0.2662	7.60%
QC value greater than the upper limit for As 188.979 Recovery = 175.12%							
B†	1348.4	32.06 ug/L		0.904	32.06 ug/L	0.904	2.82%
QC value greater than the upper limit for B Recovery = 128.25%							
Ba 233.527†	174.8	1.627 ug/L		0.0912	1.627 ug/L	0.0912	5.61%
QC value within limits for Ba 233.527 Recovery = 108.45%							
Be 313.107†	59.2	0.945 ug/L		0.1501	0.945 ug/L	0.1501	15.88%
QC value within limits for Be 313.107 Recovery = 94.47%							
Ca 315.887†	88.5	65.10 ug/L		6.587	65.10 ug/L	6.587	10.12%
QC value greater than the upper limit for Ca 315.887 Recovery = 130.20%							
Cd 214.440†	40.0	0.286 ug/L		0.0465	0.286 ug/L	0.0465	16.28%
QC value within limits for Cd 214.440 Recovery = 114.36%							
Co 228.616†	122.1	2.614 ug/L		0.2082	2.614 ug/L	0.2082	7.96%
QC value within limits for Co 228.616 Recovery = 104.57%							
Cr 267.716†	42.9	0.558 ug/L		0.2546	0.558 ug/L	0.2546	45.65%
QC value within limits for Cr 267.716 Recovery = 111.53%							
Cu 327.393†	146.7	1.745 ug/L		0.5629	1.745 ug/L	0.5629	32.26%
QC value less than the lower limit for Cu 327.393 Recovery = 69.80%							
Fe 273.955†	434.3	27.73 ug/L		0.231	27.73 ug/L	0.231	0.83%
QC value within limits for Fe 273.955 Recovery = 110.94%							
K 766.490†	837.4	430.5 ug/L		69.68	430.5 ug/L	69.68	16.19%
QC value within limits for K 766.490 Recovery = 86.10%							
Mg 285.213†	57.4	26.90 ug/L		1.770	26.90 ug/L	1.770	6.58%
QC value within limits for Mg 285.213 Recovery = 107.61%							
Mn 257.610†	14.4	2.503 ug/L		1.5321	2.503 ug/L	1.5321	61.20%
QC value greater than the upper limit for Mn 257.610 Recovery = 250.33%							
Mo 202.031†	27.8	1.037 ug/L		0.1718	1.037 ug/L	0.1718	16.57%
QC value within limits for Mo 202.031 Recovery = 103.70%							
Na 589.592†	1530.6	496.6 ug/L		31.11	496.6 ug/L	31.11	6.27%
QC value within limits for Na 589.592 Recovery = 99.32%							
Ni 231.604†	46.5	1.197 ug/L		0.1213	1.197 ug/L	0.1213	10.13%
QC value within limits for Ni 231.604 Recovery = 119.72%							
P 213.617†	33.4	10.03 ug/L		1.448	10.03 ug/L	1.448	14.43%
QC value within limits for P 213.617 Recovery = 80.25%							
Pb 220.353†	-8.8	-0.878 ug/L		2.2700	-0.878 ug/L	2.2700	258.41%
QC value less than the lower limit for Pb 220.353 Recovery = -58.56%							
Sb 206.836†	4.7	1.181 ug/L		1.1102	1.181 ug/L	1.1102	94.04%
QC value less than the lower limit for Sb 206.836 Recovery = 59.03%							
Se 196.026†	18.4	6.595 ug/L		2.1929	6.595 ug/L	2.1929	33.25%
QC value greater than the upper limit for Se 196.026 Recovery = 329.76%							
Sn 189.927†	25.2	2.697 ug/L		0.4984	2.697 ug/L	0.4984	18.48%
QC value within limits for Sn 189.927 Recovery = 89.91%							
Sr 421.552†	177.7	1.284 ug/L		0.6019	1.284 ug/L	0.6019	46.88%
QC value greater than the upper limit for Sr 421.552 Recovery = 128.39%							
Ti 337.279†	14.4	2.055 ug/L		1.3015	2.055 ug/L	1.3015	63.34%
QC value within limits for Ti 337.279 Recovery = 82.20%							
Tl 190.801†	14.6	3.585 ug/L		1.4462	3.585 ug/L	1.4462	40.34%
QC value greater than the upper limit for Tl 190.801 Recovery = 179.26%							
V 292.402†	67.8	0.499 ug/L		0.9614	0.499 ug/L	0.9614	192.81%
QC value within limits for V 292.402 Recovery = 99.73%							
Zn 206.200†	1314.9	26.76 ug/L		0.121	26.76 ug/L	0.121	0.45%
QC value within limits for Zn 206.200 Recovery = 107.02%							
QC Failed. Continue with analysis.							

Sequence No.: 7
 Sample ID: LLICVX2 191030 I:PB O:PW
 Analyst:
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 10/30/19 9:39:21 AM
 Data Type: Reprocessed on 10/31/19 1:15:44 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LLICVX2 191030 I:PB O:PW

Analyte	Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1265255.3	100.0 %	0.17			0.17%
Y 371.029 Radial	1209624.4	100.0 %	0.21			0.21%
Ag 338.289†	52.8	0.777 ug/L	1.2058	0.777 ug/L	1.2058	155.23%
QC value less than the lower limit for Ag 338.289 Recovery = 77.68%						
Al 308.215†	23.3	88.87 ug/L	5.528	88.87 ug/L	5.528	6.22%
QC value within limits for Al 308.215 Recovery = 88.87%						
As 188.979†	11.5	3.622 ug/L	0.4545	3.622 ug/L	0.4545	12.55%
QC value within limits for As 188.979 Recovery = 90.55%						
B†	1942.8	46.20 ug/L	0.339	46.20 ug/L	0.339	0.73%
QC value within limits for B Recovery = 92.40%						
Ba 233.527†	339.2	3.156 ug/L	0.1859	3.156 ug/L	0.1859	5.89%
QC value within limits for Ba 233.527 Recovery = 105.20%						
Be 313.107†	118.9	1.899 ug/L	0.1716	1.899 ug/L	0.1716	9.04%
QC value within limits for Be 313.107 Recovery = 94.93%						
Ca 315.887†	159.9	117.5 ug/L	8.48	117.5 ug/L	8.48	7.21%
QC value within limits for Ca 315.887 Recovery = 117.54%						
Cd 214.440†	79.4	0.568 ug/L	0.0935	0.568 ug/L	0.0935	16.46%
QC value within limits for Cd 214.440 Recovery = 113.58%						
Co 228.616†	251.7	5.387 ug/L	0.3801	5.387 ug/L	0.3801	7.06%
QC value within limits for Co 228.616 Recovery = 107.74%						
Cr 267.716†	77.3	1.003 ug/L	0.0880	1.003 ug/L	0.0880	8.77%
QC value within limits for Cr 267.716 Recovery = 100.28%						
Cu 327.393†	463.6	5.529 ug/L	1.1624	5.529 ug/L	1.1624	21.02%
QC value within limits for Cu 327.393 Recovery = 110.57%						
Fe 273.955†	827.4	52.85 ug/L	0.800	52.85 ug/L	0.800	1.51%
QC value within limits for Fe 273.955 Recovery = 105.69%						
K 766.490†	1672.5	859.9 ug/L	47.89	859.9 ug/L	47.89	5.57%
QC value within limits for K 766.490 Recovery = 85.99%						
Mg 285.213†	104.5	48.93 ug/L	4.155	48.93 ug/L	4.155	8.49%
QC value within limits for Mg 285.213 Recovery = 97.86%						
Mn 257.610†	20.0	3.499 ug/L	0.6470	3.499 ug/L	0.6470	18.49%
QC value greater than the upper limit for Mn 257.610 Recovery = 174.94%						
Mo 202.031†	49.2	1.835 ug/L	0.1642	1.835 ug/L	0.1642	8.95%
QC value within limits for Mo 202.031 Recovery = 91.75%						
Na 589.592†	2920.7	947.6 ug/L	28.24	947.6 ug/L	28.24	2.98%
QC value within limits for Na 589.592 Recovery = 94.76%						
Ni 231.604†	76.7	1.964 ug/L	0.3277	1.964 ug/L	0.3277	16.68%
QC value within limits for Ni 231.604 Recovery = 98.22%						
P 213.617†	79.3	23.81 ug/L	0.292	23.81 ug/L	0.292	1.23%
QC value within limits for P 213.617 Recovery = 95.25%						
Pb 220.353†	26.4	2.630 ug/L	0.7839	2.630 ug/L	0.7839	29.81%
QC value within limits for Pb 220.353 Recovery = 87.66%						
Sb 206.836†	14.1	3.532 ug/L	1.0125	3.532 ug/L	1.0125	28.66%
QC value within limits for Sb 206.836 Recovery = 88.31%						
Se 196.026†	15.7	5.608 ug/L	1.1362	5.608 ug/L	1.1362	20.26%
QC value greater than the upper limit for Se 196.026 Recovery = 140.20%						
Sn 189.927†	52.9	5.677 ug/L	0.6118	5.677 ug/L	0.6118	10.78%
QC value within limits for Sn 189.927 Recovery = 94.62%						
Sr 421.552†	277.8	2.007 ug/L	0.0393	2.007 ug/L	0.0393	1.96%
QC value within limits for Sr 421.552 Recovery = 100.34%						
Ti 337.279†	34.8	4.981 ug/L	1.3486	4.981 ug/L	1.3486	27.08%
QC value within limits for Ti 337.279 Recovery = 99.61%						
Tl 190.801†	25.5	6.273 ug/L	0.7824	6.273 ug/L	0.7824	12.47%
QC value greater than the upper limit for Tl 190.801 Recovery = 156.82%						
V 292.402†	137.7	1.008 ug/L	0.5790	1.008 ug/L	0.5790	57.42%
QC value within limits for V 292.402 Recovery = 100.85%						
Zn 206.200†	2562.6	52.14 ug/L	0.198	52.14 ug/L	0.198	0.38%
QC value within limits for Zn 206.200 Recovery = 104.28%						
QC Failed. Continue with analysis.						

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Sequence No.: 8                               Autosampler Location: 11
Sample ID: LLICVX6 191030 I:PB O:PW          Date Collected: 10/30/19 9:44:08 AM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:45 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: LLICVX6 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1260657.4	99.64 %		0.739			0.74%
Y 371.029 Radial	1205653.3	99.72 %		0.768			0.77%
Ag 338.289†	204.2	2.947 ug/L		1.4032	2.947 ug/L	1.4032	47.62%
QC value within limits for Ag 338.289 Recovery = 98.23%							
Al 308.215†	73.7	280.5 ug/L		20.20	280.5 ug/L	20.20	7.20%
QC value within limits for Al 308.215 Recovery = 93.49%							
As 188.979†	43.6	13.65 ug/L		1.594	13.65 ug/L	1.594	11.68%
QC value within limits for As 188.979 Recovery = 113.74%							
B†	5931.8	141.1 ug/L		1.82	141.1 ug/L	1.82	1.29%
QC value within limits for B Recovery = 94.04%							
Ba 233.527†	1029.6	9.578 ug/L		0.1607	9.578 ug/L	0.1607	1.68%
QC value within limits for Ba 233.527 Recovery = 106.43%							
Be 313.107†	363.7	5.805 ug/L		0.0790	5.805 ug/L	0.0790	1.36%
QC value within limits for Be 313.107 Recovery = 96.75%							
Ca 315.887†	431.2	317.0 ug/L		8.23	317.0 ug/L	8.23	2.60%
QC value within limits for Ca 315.887 Recovery = 105.66%							
Cd 214.440†	231.7	1.657 ug/L		0.1343	1.657 ug/L	0.1343	8.11%
QC value within limits for Cd 214.440 Recovery = 110.46%							
Co 228.616†	769.6	16.48 ug/L		0.377	16.48 ug/L	0.377	2.28%
QC value within limits for Co 228.616 Recovery = 109.86%							
Cr 267.716†	233.3	3.030 ug/L		0.1785	3.030 ug/L	0.1785	5.89%
QC value within limits for Cr 267.716 Recovery = 101.00%							
Cu 327.393†	1314.5	15.67 ug/L		0.524	15.67 ug/L	0.524	3.34%
QC value within limits for Cu 327.393 Recovery = 104.44%							
Fe 273.955†	2418.6	154.5 ug/L		2.64	154.5 ug/L	2.64	1.71%
QC value within limits for Fe 273.955 Recovery = 103.00%							
K 766.490†	5531.4	2844 ug/L		54.6	2844 ug/L	54.6	1.92%
QC value within limits for K 766.490 Recovery = 94.79%							
Mg 285.213†	319.4	149.5 ug/L		1.77	149.5 ug/L	1.77	1.19%
QC value within limits for Mg 285.213 Recovery = 99.68%							
Mn 257.610†	38.8	6.783 ug/L		0.1588	6.783 ug/L	0.1588	2.34%
QC value within limits for Mn 257.610 Recovery = 113.06%							
Mo 202.031†	152.6	5.692 ug/L		0.3182	5.692 ug/L	0.3182	5.59%
QC value within limits for Mo 202.031 Recovery = 94.87%							
Na 589.592†	8929.5	2897 ug/L		27.3	2897 ug/L	27.3	0.94%
QC value within limits for Na 589.592 Recovery = 96.57%							
Ni 231.604†	231.1	5.935 ug/L		0.1936	5.935 ug/L	0.1936	3.26%
QC value within limits for Ni 231.604 Recovery = 98.92%							
P 213.617†	234.6	70.49 ug/L		1.488	70.49 ug/L	1.488	2.11%
QC value within limits for P 213.617 Recovery = 93.99%							
Pb 220.353†	84.8	8.436 ug/L		1.7448	8.436 ug/L	1.7448	20.68%
QC value within limits for Pb 220.353 Recovery = 93.73%							
Sb 206.836†	44.8	11.23 ug/L		0.456	11.23 ug/L	0.456	4.06%
QC value within limits for Sb 206.836 Recovery = 93.54%							
Se 196.026†	44.0	15.74 ug/L		3.126	15.74 ug/L	3.126	19.87%
QC value greater than the upper limit for Se 196.026 Recovery = 131.13%							
Sn 189.927†	169.4	18.16 ug/L		0.808	18.16 ug/L	0.808	4.45%
QC value within limits for Sn 189.927 Recovery = 100.87%							
Sr 421.552†	852.9	6.161 ug/L		0.2417	6.161 ug/L	0.2417	3.92%
QC value within limits for Sr 421.552 Recovery = 102.68%							
Ti 337.279†	100.3	14.35 ug/L		0.147	14.35 ug/L	0.147	1.03%
QC value within limits for Ti 337.279 Recovery = 95.65%							
Tl 190.801†	55.0	13.55 ug/L		0.361	13.55 ug/L	0.361	2.66%
QC value within limits for Tl 190.801 Recovery = 112.93%							
V 292.402†	363.3	2.671 ug/L		0.0739	2.671 ug/L	0.0739	2.77%
QC value within limits for V 292.402 Recovery = 89.04%							
Zn 206.200†	7644.6	155.5 ug/L		3.16	155.5 ug/L	3.16	2.03%
QC value within limits for Zn 206.200 Recovery = 103.70%							
QC Failed. Continue with analysis.							

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Sequence No.: 9                               Autosampler Location: 3
Sample ID: CCV1 191030 I:PB O:PW           Date Collected: 10/30/19 1:20:40 PM
Analyst:                                     Data Type: Reprocessed on 10/31/19 1:15:46 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
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Mean Data: CCV1 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1229015.5	97.14 %		0.263			0.27%
Y 371.029 Radial	1171934.3	96.93 %		0.308			0.32%
Ag 338.289†	18414.4	252.7 ug/L		1.61	252.7 ug/L	1.61	0.64%
QC value within limits for Ag 338.289 Recovery = 101.09%							
Al 308.215†	2621.7	10000 ug/L		66.3	10000 ug/L	66.3	0.66%
QC value within limits for Al 308.215 Recovery = 100.01%							
As 188.979†	1647.3	514.0 ug/L		0.76	514.0 ug/L	0.76	0.15%
QC value within limits for As 188.979 Recovery = 102.80%							
B†	20485.9	487.1 ug/L		5.61	487.1 ug/L	5.61	1.15%
QC value within limits for B Recovery = 97.43%							
Ba 233.527†	53870.5	501.9 ug/L		3.16	501.9 ug/L	3.16	0.63%
QC value within limits for Ba 233.527 Recovery = 100.38%							
Be 313.107†	31962.7	507.9 ug/L		2.68	507.9 ug/L	2.68	0.53%
QC value within limits for Be 313.107 Recovery = 101.59%							
Ca 315.887†	34121.2	25100 ug/L		116.4	25100 ug/L	116.4	0.46%
QC value within limits for Ca 315.887 Recovery = 100.40%							
Cd 214.440†	70165.4	503.0 ug/L		2.62	503.0 ug/L	2.62	0.52%
QC value within limits for Cd 214.440 Recovery = 100.59%							
Co 228.616†	23582.9	505.1 ug/L		3.41	505.1 ug/L	3.41	0.68%
QC value within limits for Co 228.616 Recovery = 101.02%							
Cr 267.716†	38087.8	502.2 ug/L		1.59	502.2 ug/L	1.59	0.32%
QC value within limits for Cr 267.716 Recovery = 100.43%							
Cu 327.393†	41631.8	499.2 ug/L		5.19	499.2 ug/L	5.19	1.04%
QC value within limits for Cu 327.393 Recovery = 99.83%							
Fe 273.955†	157791.7	10040 ug/L		59.2	10040 ug/L	59.2	0.59%
QC value within limits for Fe 273.955 Recovery = 100.43%							
K 766.490†	18927.4	9718 ug/L		38.4	9718 ug/L	38.4	0.40%
QC value within limits for K 766.490 Recovery = 97.18%							
Mg 285.213†	53547.1	25160 ug/L		89.3	25160 ug/L	89.3	0.35%
QC value within limits for Mg 285.213 Recovery = 100.64%							
Mn 257.610†	2884.8	502.4 ug/L		1.89	502.4 ug/L	1.89	0.38%
QC value within limits for Mn 257.610 Recovery = 100.48%							
Mo 202.031†	12944.2	486.9 ug/L		4.32	486.9 ug/L	4.32	0.89%
QC value within limits for Mo 202.031 Recovery = 97.38%							
Na 589.592†	37300.3	12120 ug/L		34.1	12120 ug/L	34.1	0.28%
QC value within limits for Na 589.592 Recovery = 96.96%							
Ni 231.604†	19172.8	504.3 ug/L		1.19	504.3 ug/L	1.19	0.24%
QC value within limits for Ni 231.604 Recovery = 100.87%							
P 213.617†	8495.9	2553 ug/L		8.3	2553 ug/L	8.3	0.32%
QC value within limits for P 213.617 Recovery = 102.12%							
Pb 220.353†	5163.0	515.4 ug/L		2.01	515.4 ug/L	2.01	0.39%
QC value within limits for Pb 220.353 Recovery = 103.09%							
Sb 206.836†	2020.9	505.9 ug/L		1.11	505.9 ug/L	1.11	0.22%
QC value within limits for Sb 206.836 Recovery = 101.17%							
Se 196.026†	1420.8	511.9 ug/L		2.19	511.9 ug/L	2.19	0.43%
QC value within limits for Se 196.026 Recovery = 102.37%							
Sn 189.927†	4793.8	515.0 ug/L		1.99	515.0 ug/L	1.99	0.39%
QC value within limits for Sn 189.927 Recovery = 103.01%							
Sr 421.552†	67358.8	486.6 ug/L		1.07	486.6 ug/L	1.07	0.22%
QC value within limits for Sr 421.552 Recovery = 97.32%							
Ti 337.279†	3504.2	501.2 ug/L		2.24	501.2 ug/L	2.24	0.45%
QC value within limits for Ti 337.279 Recovery = 100.24%							
Tl 190.801†	2095.4	522.1 ug/L		1.31	522.1 ug/L	1.31	0.25%
QC value within limits for Tl 190.801 Recovery = 104.43%							
V 292.402†	69692.8	508.8 ug/L		2.18	508.8 ug/L	2.18	0.43%
QC value within limits for V 292.402 Recovery = 101.75%							
Zn 206.200†	24771.7	506.6 ug/L		2.50	506.6 ug/L	2.50	0.49%
QC value within limits for Zn 206.200 Recovery = 101.32%							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCB 191030 I:PB O:PW

Analyst:

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 10/30/19 1:25:17 PM

Data Type: Reprocessed on 10/31/19 1:15:48 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB 191030 I:PB O:PW

Analyte	Mean Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1276414.3	100.9 %	1.16			1.15%
Y 371.029 Radial	1219831.1	100.9 %	1.26			1.25%
Ag 338.289†	47.4	0.629 ug/L	0.4657	0.629 ug/L	0.4657	74.05%
QC value within limits for Ag 338.289 Recovery = Not calculated						
Al 308.215†	3.9	14.81 ug/L	7.394	14.81 ug/L	7.394	49.94%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979†	5.1	1.571 ug/L	2.7926	1.571 ug/L	2.7926	177.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B†	39.6	0.941 ug/L	0.5691	0.941 ug/L	0.5691	60.51%
QC value within limits for B Recovery = Not calculated						
Ba 233.527†	-16.4	-0.154 ug/L	0.1157	-0.154 ug/L	0.1157	75.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.6	0.069 ug/L	0.0624	0.069 ug/L	0.0624	90.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-61.5	-45.22 ug/L	10.408	-45.22 ug/L	10.408	23.02%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 214.440†	0.5	0.004 ug/L	0.0674	0.004 ug/L	0.0674	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Co 228.616†	-1.4	-0.026 ug/L	0.0682	-0.026 ug/L	0.0682	260.30%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.4	0.138 ug/L	0.2311	0.138 ug/L	0.2311	167.26%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-62.1	-0.749 ug/L	1.3685	-0.749 ug/L	1.3685	182.72%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 273.955†	-13.0	-0.855 ug/L	0.3367	-0.855 ug/L	0.3367	39.37%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490†	-67.9	-34.93 ug/L	17.459	-34.93 ug/L	17.459	49.98%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-12.7	-5.955 ug/L	1.9116	-5.955 ug/L	1.9116	32.10%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-1.5	-0.261 ug/L	0.8192	-0.261 ug/L	0.8192	314.47%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.4	0.280 ug/L	0.2658	0.280 ug/L	0.2658	94.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-369.0	-119.8 ug/L	10.65	-119.8 ug/L	10.65	8.89%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-13.6	-0.365 ug/L	0.5076	-0.365 ug/L	0.5076	138.89%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 213.617†	-2.1	-0.622 ug/L	0.7912	-0.622 ug/L	0.7912	127.28%
QC value within limits for P 213.617 Recovery = Not calculated						
Pb 220.353†	3.2	0.327 ug/L	1.7247	0.327 ug/L	1.7247	526.72%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.3	0.077 ug/L	0.8803	0.077 ug/L	0.8803	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.0	-1.061 ug/L	0.4031	-1.061 ug/L	0.4031	38.00%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-3.3	-0.357 ug/L	0.3269	-0.357 ug/L	0.3269	91.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-13.7	-0.099 ug/L	0.2628	-0.099 ug/L	0.2628	266.06%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 337.279†	-8.4	-1.197 ug/L	0.4550	-1.197 ug/L	0.4550	38.01%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	17.0	4.131 ug/L	1.4469	4.131 ug/L	1.4469	35.02%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	36.0	0.264 ug/L	0.6282	0.264 ug/L	0.6282	238.04%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	-20.9	-0.442 ug/L	0.1492	-0.442 ug/L	0.1492	33.79%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.


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Sequence No.: 11                               Autosampler Location: 8
Sample ID: CCV2 191030 I:PB O:PW             Date Collected: 10/30/19 1:58:35 PM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:49 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCV2 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1236531.8	97.73 %		1.096			1.12%
Y 371.029 Radial	1180474.7	97.64 %		1.185			1.21%
Ag 338.289†	13237.5	181.8 ug/L		0.52	181.8 ug/L	0.52	0.29%
QC value within limits for Ag 338.289 Recovery = 96.95%							
Al 308.215†	1904.0	7263 ug/L		86.2	7263 ug/L	86.2	1.19%
QC value within limits for Al 308.215 Recovery = 96.84%							
As 188.979†	1206.0	376.2 ug/L		3.27	376.2 ug/L	3.27	0.87%
QC value within limits for As 188.979 Recovery = 100.33%							
B†	16374.9	389.4 ug/L		1.91	389.4 ug/L	1.91	0.49%
QC value within limits for B Recovery = 103.83%							
Ba 233.527†	39949.5	372.2 ug/L		0.78	372.2 ug/L	0.78	0.21%
QC value within limits for Ba 233.527 Recovery = 99.26%							
Be 313.107†	24434.2	388.3 ug/L		4.30	388.3 ug/L	4.30	1.11%
QC value within limits for Be 313.107 Recovery = 103.54%							
Ca 315.887†	24975.8	18370 ug/L		165.7	18370 ug/L	165.7	0.90%
QC value within limits for Ca 315.887 Recovery = 97.99%							
Cd 214.440†	55180.4	395.6 ug/L		1.41	395.6 ug/L	1.41	0.36%
QC value within limits for Cd 214.440 Recovery = 105.48%							
Co 228.616†	17105.3	366.4 ug/L		1.58	366.4 ug/L	1.58	0.43%
QC value within limits for Co 228.616 Recovery = 97.70%							
Cr 267.716†	28236.8	372.3 ug/L		1.37	372.3 ug/L	1.37	0.37%
QC value within limits for Cr 267.716 Recovery = 99.27%							
Cu 327.393†	31123.2	373.2 ug/L		2.46	373.2 ug/L	2.46	0.66%
QC value within limits for Cu 327.393 Recovery = 99.51%							
Fe 273.955†	114886.3	7311 ug/L		16.8	7311 ug/L	16.8	0.23%
QC value within limits for Fe 273.955 Recovery = 97.48%							
K 766.490†	14741.9	7569 ug/L		156.5	7569 ug/L	156.5	2.07%
QC value within limits for K 766.490 Recovery = 100.92%							
Mg 285.213†	41392.6	19450 ug/L		166.8	19450 ug/L	166.8	0.86%
QC value within limits for Mg 285.213 Recovery = 103.72%							
Mn 257.610†	2127.5	370.5 ug/L		3.96	370.5 ug/L	3.96	1.07%
QC value within limits for Mn 257.610 Recovery = 98.79%							
Mo 202.031†	9899.4	372.3 ug/L		4.58	372.3 ug/L	4.58	1.23%
QC value within limits for Mo 202.031 Recovery = 99.29%							
Na 589.592†	28179.8	9156 ug/L		61.9	9156 ug/L	61.9	0.68%
QC value within limits for Na 589.592 Recovery = 97.66%							
Ni 231.604†	14099.4	370.8 ug/L		1.75	370.8 ug/L	1.75	0.47%
QC value within limits for Ni 231.604 Recovery = 98.89%							
P 213.617†	5896.3	1772 ug/L		26.1	1772 ug/L	26.1	1.47%
QC value within limits for P 213.617 Recovery = 94.49%							
Pb 220.353†	3770.4	376.5 ug/L		4.10	376.5 ug/L	4.10	1.09%
QC value within limits for Pb 220.353 Recovery = 100.39%							
Sb 206.836†	1484.3	371.6 ug/L		4.80	371.6 ug/L	4.80	1.29%
QC value within limits for Sb 206.836 Recovery = 99.08%							
Se 196.026†	1085.7	391.0 ug/L		7.01	391.0 ug/L	7.01	1.79%
QC value within limits for Se 196.026 Recovery = 104.26%							
Sn 189.927†	3596.2	386.3 ug/L		4.63	386.3 ug/L	4.63	1.20%
QC value within limits for Sn 189.927 Recovery = 103.02%							
Sr 421.552†	49440.3	357.2 ug/L		2.68	357.2 ug/L	2.68	0.75%
QC value within limits for Sr 421.552 Recovery = 95.24%							
Ti 337.279†	2613.7	373.8 ug/L		4.51	373.8 ug/L	4.51	1.21%
QC value within limits for Ti 337.279 Recovery = 99.69%							
Tl 190.801†	1608.4	400.5 ug/L		2.77	400.5 ug/L	2.77	0.69%
QC value within limits for Tl 190.801 Recovery = 106.79%							
V 292.402†	51636.8	377.1 ug/L		0.58	377.1 ug/L	0.58	0.15%
QC value within limits for V 292.402 Recovery = 100.57%							
Zn 206.200†	18928.0	387.1 ug/L		2.35	387.1 ug/L	2.35	0.61%
QC value within limits for Zn 206.200 Recovery = 103.22%							

All analyte(s) passed QC.

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Sequence No.: 12                               Autosampler Location: 1
Sample ID: CCB 191030 I:PB O:PW              Date Collected: 10/30/19 2:03:22 PM
Analyst:                                       Data Type: Reprocessed on 10/31/19 1:15:50 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Mean Data: CCB 191030 I:PB O:PW

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1285514.0	101.6 %		0.37			0.36%
Y 371.029 Radial	1229772.8	101.7 %		0.37			0.37%
Ag 338.289†	-27.1	-0.383 ug/L		0.8969	-0.383 ug/L	0.8969	234.36%
QC value within limits for Ag 338.289 Recovery = Not calculated							
Al 308.215†	4.9	18.63 ug/L		5.602	18.63 ug/L	5.602	30.07%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979†	6.5	2.029 ug/L		1.6653	2.029 ug/L	1.6653	82.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B†	34.8	0.828 ug/L		0.2325	0.828 ug/L	0.2325	28.09%
QC value within limits for B Recovery = Not calculated							
Ba 233.527†	-24.1	-0.227 ug/L		0.0712	-0.227 ug/L	0.0712	31.44%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	6.7	0.104 ug/L		0.1560	0.104 ug/L	0.1560	149.55%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	-38.0	-27.93 ug/L		6.384	-27.93 ug/L	6.384	22.85%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Cd 214.440†	49.6	0.356 ug/L		0.1046	0.356 ug/L	0.1046	29.40%
QC value within limits for Cd 214.440 Recovery = Not calculated							
Co 228.616†	12.4	0.266 ug/L		0.2142	0.266 ug/L	0.2142	80.62%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	7.4	0.095 ug/L		0.2846	0.095 ug/L	0.2846	298.12%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	115.8	1.380 ug/L		1.3030	1.380 ug/L	1.3030	94.44%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 273.955†	-32.8	-2.040 ug/L		0.1811	-2.040 ug/L	0.1811	8.88%
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490†	-262.0	-134.7 ug/L		65.63	-134.7 ug/L	65.63	48.72%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	-22.7	-10.65 ug/L		3.104	-10.65 ug/L	3.104	29.15%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	0.7	0.130 ug/L		0.2425	0.130 ug/L	0.2425	186.70%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-19.2	-0.719 ug/L		0.3302	-0.719 ug/L	0.3302	45.89%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-266.8	-86.54 ug/L		29.745	-86.54 ug/L	29.745	34.37%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-21.3	-0.575 ug/L		0.4961	-0.575 ug/L	0.4961	86.31%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 213.617†	-34.4	-10.33 ug/L		1.895	-10.33 ug/L	1.895	18.34%
QC value within limits for P 213.617 Recovery = Not calculated							
Pb 220.353†	-28.5	-2.842 ug/L		1.0170	-2.842 ug/L	1.0170	35.78%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-7.3	-1.815 ug/L		1.0718	-1.815 ug/L	1.0718	59.04%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	18.6	6.638 ug/L		0.5781	6.638 ug/L	0.5781	8.71%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-6.7	-0.721 ug/L		0.3515	-0.721 ug/L	0.3515	48.78%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	30.8	0.223 ug/L		0.3012	0.223 ug/L	0.3012	135.27%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 337.279†	-4.8	-0.692 ug/L		0.9466	-0.692 ug/L	0.9466	136.82%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	28.9	7.021 ug/L		1.2655	7.021 ug/L	1.2655	18.02%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-93.7	-0.681 ug/L		0.5627	-0.681 ug/L	0.5627	82.58%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	-22.9	-0.492 ug/L		0.2325	-0.492 ug/L	0.2325	47.30%
QC value within limits for Zn 206.200 Recovery = Not calculated							
QC Failed. Continue with analysis.							

METALS

Raw Data

Sequence No.: 15

Sample ID: BA01784W20 DF5

Analyst: P

Logged In Analyst (Original) : chemist_metals

Initial Sample Wt:

Dilution: 5X

Autosampler Location: 55

Date Collected: 10/30/19 1:53:46 PM

Data Type: Reprocessed on 10/31/19 1:15:53 PM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BA01784W20 DF5

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.			Units
Y 371.029	1283030.4	101.4	%	1.07				1.06%
Y 371.029 Radial	1227401.6	101.5	%	1.13				1.12%
Ag 338.289†	-43.2	-0.614	ug/L	0.3093	-3.068	ug/L	1.5463	50.40%
Al 308.215†	-4.6	-18.44	ug/L	19.784	-92.19	ug/L	98.922	107.30%
As 188.979†	7.5	2.316	ug/L	1.9005	11.58	ug/L	9.502	82.06%
B†	328.3	7.807	ug/L	0.7653	-39.03	ug/L	3.826	9.80%
Ba 233.527†	37.0	0.338	ug/L	0.0795	1.691	ug/L	0.3974	23.50%
Be 313.107†	-0.0	0.002	ug/L	0.2365	0.011	ug/L	1.1823	>999.9%
Ca 315.887†	2803.2	2062	ug/L	61.6	10310	ug/L	308.1	2.99%
Cd 214.440†	-18.6	-0.139	ug/L	0.0487	-0.694	ug/L	0.2436	35.12%
Co 228.616†	-2.4	-0.075	ug/L	0.3559	-0.376	ug/L	1.7796	472.96%
Cr 267.716†	47.7	0.596	ug/L	0.1631	2.980	ug/L	0.8157	27.38%
Cu 327.393†	109.4	1.183	ug/L	0.1959	5.915	ug/L	0.9795	16.56%
Fe 273.955†	212.4	12.81	ug/L	1.344	64.05	ug/L	6.718	10.49%
K 766.490†	241.5	124.0	ug/L	40.03	619.8	ug/L	200.14	32.29%
Mg 285.213†	6255.7	2936	ug/L	80.4	14680	ug/L	402.0	2.74%
Mn 257.610†	74.3	12.81	ug/L	0.480	64.06	ug/L	2.400	3.75%
Mo 202.031†	4.1	0.038	ug/L	0.1649	0.189	ug/L	0.8243	436.39%
Na 589.592†	24056.1	7808	ug/L	241.2	39040	ug/L	1205.8	3.09%
Ni 231.604†	41.8	1.081	ug/L	0.1758	5.403	ug/L	0.8788	16.27%
P 213.617†	38.0	11.41	ug/L	2.555	57.06	ug/L	12.773	22.38%
Pb 220.353†	-28.9	-2.928	ug/L	0.5611	-14.64	ug/L	2.806	19.16%
Sb 206.836†	-7.1	-1.786	ug/L	0.6370	-8.931	ug/L	3.1849	35.66%
Se 196.026†	20.9	7.330	ug/L	1.1543	36.65	ug/L	5.771	15.75%
Sn 189.927†	-5.4	-0.497	ug/L	0.2323	-2.486	ug/L	1.1615	46.73%
Sr 421.552†	3185.5	23.00	ug/L	0.487	115.0	ug/L	2.43	2.12%
Ti 337.279†	2.1	0.264	ug/L	1.1236	1.318	ug/L	5.6180	426.37%
Tl 190.801†	14.8	3.752	ug/L	0.6948	18.76	ug/L	3.474	18.52%
V 292.402†	89.0	0.657	ug/L	0.2499	3.285	ug/L	1.2497	38.05%
Zn 206.200†	70.5	1.357	ug/L	0.2737	6.785	ug/L	1.3684	20.17%

Sequence No.: 16
 Sample ID: 191028B BLK
 Analyst: P
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 10/30/19 1:30:09 PM
 Data Type: Reprocessed on 10/31/19 1:15:55 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 191028B BLK

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1294304.3	102.3 %	1.03			1.00%
Y 371.029 Radial	1237399.8	102.3 %	1.10			1.08%
Ag 338.289†	3.2	0.042 ug/L	0.6973	0.042 ug/L	0.6973	>999.9%
Al 308.215†	-4.9	-18.83 ug/L	10.444	-18.83 ug/L	10.444	55.47%
As 188.979†	-4.9	-1.511 ug/L	1.3874	-1.511 ug/L	1.3874	91.85%
B†	-45.1	-1.073 ug/L	0.2488	-1.073 ug/L	0.2488	23.18%
Ba 233.527†	-7.9	-0.073 ug/L	0.1089	-0.073 ug/L	0.1089	149.01%
Be 313.107†	1.3	0.021 ug/L	0.1069	0.021 ug/L	0.1069	511.83%
Ca 315.887†	-30.5	-22.45 ug/L	1.830	-22.45 ug/L	1.830	8.16%
Cd 214.440†	0.4	0.003 ug/L	0.0227	0.003 ug/L	0.0227	801.12%
Co 228.616†	-0.1	-0.004 ug/L	0.1219	-0.004 ug/L	0.1219	>999.9%
Cr 267.716†	34.9	0.458 ug/L	0.1798	0.458 ug/L	0.1798	39.31%
Cu 327.393†	162.2	1.951 ug/L	0.7415	1.951 ug/L	0.7415	38.00%
Fe 273.955†	48.5	3.119 ug/L	1.1395	3.119 ug/L	1.1395	36.54%
K 766.490†	-113.1	-58.18 ug/L	47.924	-58.18 ug/L	47.924	82.38%
Mg 285.213†	6.5	3.089 ug/L	1.4946	3.089 ug/L	1.4946	48.39%
Mn 257.610†	1.8	0.320 ug/L	0.9221	0.320 ug/L	0.9221	288.02%
Mo 202.031†	9.6	0.363 ug/L	0.4871	0.363 ug/L	0.4871	134.15%
Na 589.592†	-330.7	-107.3 ug/L	40.89	-107.3 ug/L	40.89	38.11%
Ni 231.604†	-17.4	-0.468 ug/L	0.1962	-0.468 ug/L	0.1962	41.93%
P 213.617†	6.6	1.973 ug/L	1.5665	1.973 ug/L	1.5665	79.40%
Pb 220.353†	3.3	0.323 ug/L	0.7491	0.323 ug/L	0.7491	231.86%
Sb 206.836†	1.8	0.451 ug/L	0.5833	0.451 ug/L	0.5833	129.30%
Se 196.026†	8.7	3.102 ug/L	2.5109	3.102 ug/L	2.5109	80.94%
Sn 189.927†	108.2	11.53 ug/L	0.301	11.53 ug/L	0.301	2.61%
Sr 421.552†	-35.8	-0.259 ug/L	0.3408	-0.259 ug/L	0.3408	131.72%
Ti 337.279†	1.6	0.231 ug/L	1.0053	0.231 ug/L	1.0053	435.15%
Tl 190.801†	8.2	1.994 ug/L	0.2284	1.994 ug/L	0.2284	11.46%
V 292.402†	-32.5	-0.226 ug/L	0.7339	-0.226 ug/L	0.7339	324.84%
Zn 206.200†	291.2	5.962 ug/L	0.1263	5.962 ug/L	0.1263	2.12%

Sequence No.: 17
 Sample ID: 191028B LCS
 Analyst: P
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 51
 Date Collected: 10/30/19 1:34:51 PM
 Data Type: Reprocessed on 10/31/19 1:15:56 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 191028B LCS

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1255338.0	99.22	%	0.671			0.68%
Y 371.029 Radial	1199200.3	99.18	%	0.712			0.72%
Ag 338.289†	7208.5	99.00	ug/L	1.011	99.00 ug/L	1.011	1.02%
Al 308.215†	503.7	1920	ug/L	45.0	1920 ug/L	45.0	2.35%
As 188.979†	808.8	251.2	ug/L	0.30	251.2 ug/L	0.30	0.12%
B†	10241.7	243.5	ug/L	2.31	243.5 ug/L	2.31	0.95%
Ba 233.527†	27122.8	253.0	ug/L	1.20	253.0 ug/L	1.20	0.47%
Be 313.107†	3122.1	50.22	ug/L	0.288	50.22 ug/L	0.288	0.57%
Ca 315.887†	33509.9	24650	ug/L	106.8	24650 ug/L	106.8	0.43%
Cd 214.440†	7031.7	50.54	ug/L	0.317	50.54 ug/L	0.317	0.63%
Co 228.616†	12060.4	258.5	ug/L	1.40	258.5 ug/L	1.40	0.54%
Cr 267.716†	19244.2	253.5	ug/L	1.12	253.5 ug/L	1.12	0.44%
Cu 327.393†	21283.6	253.9	ug/L	1.51	253.9 ug/L	1.51	0.60%
Fe 273.955†	15875.9	988.9	ug/L	2.97	988.9 ug/L	2.97	0.30%
K 766.490†	9458.2	4855	ug/L	53.4	4855 ug/L	53.4	1.10%
Mg 285.213†	53461.6	25100	ug/L	89.8	25100 ug/L	89.8	0.36%
Mn 257.610†	1420.7	246.6	ug/L	2.02	246.6 ug/L	2.02	0.82%
Mo 202.031†	6741.3	253.1	ug/L	1.15	253.1 ug/L	1.15	0.46%
Na 589.592†	74936.9	24330	ug/L	71.9	24330 ug/L	71.9	0.30%
Ni 231.604†	9647.2	253.6	ug/L	1.91	253.6 ug/L	1.91	0.75%
P 213.617†	6702.8	2014	ug/L	8.9	2014 ug/L	8.9	0.44%
Pb 220.353†	2560.3	254.8	ug/L	3.34	254.8 ug/L	3.34	1.31%
Sb 206.836†	929.6	232.7	ug/L	2.98	232.7 ug/L	2.98	1.28%
Se 196.026†	685.3	244.9	ug/L	2.01	244.9 ug/L	2.01	0.82%
Sn 189.927†	2378.4	256.0	ug/L	2.02	256.0 ug/L	2.02	0.79%
Sr 421.552†	33068.7	238.8	ug/L	1.03	238.8 ug/L	1.03	0.43%
Ti 337.279†	1753.6	250.7	ug/L	0.86	250.7 ug/L	0.86	0.34%
Tl 190.801†	1027.1	255.9	ug/L	2.72	255.9 ug/L	2.72	1.06%
V 292.402†	35106.8	257.3	ug/L	0.83	257.3 ug/L	0.83	0.32%
Zn 206.200†	24973.5	508.2	ug/L	2.82	508.2 ug/L	2.82	0.56%

Sequence No.: 21
 Sample ID: 191028B LCSD
 Analyst: P
 Logged In Analyst (Original) : chemist_metals
 Initial Sample Wt:
 Dilution:

Autosampler Location: 52
 Date Collected: 10/30/19 1:39:35 PM
 Data Type: Reprocessed on 10/30/19 2:41:03 PM
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 191028B LCSD

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1246260.9	98.50 %	0.469			0.48%
Y 371.029 Radial	1190146.8	98.44 %	0.527			0.54%
Ag 338.289†	6940.9	95.42 ug/L	1.532	95.42 ug/L	1.532	1.61%
Al 308.215†	504.9	1924 ug/L	33.5	1924 ug/L	33.5	1.74%
As 188.979†	786.2	244.2 ug/L	2.33	244.2 ug/L	2.33	0.95%
B†	10293.9	244.8 ug/L	1.25	244.8 ug/L	1.25	0.51%
Ba 233.527†	26540.4	247.5 ug/L	0.77	247.5 ug/L	0.77	0.31%
Be 313.107†	3088.6	49.68 ug/L	0.608	49.68 ug/L	0.608	1.22%
Ca 315.887†	33104.1	24350 ug/L	149.1	24350 ug/L	149.1	0.61%
Cd 214.440†	7066.1	50.78 ug/L	0.302	50.78 ug/L	0.302	0.59%
Co 228.616†	11814.2	253.2 ug/L	1.36	253.2 ug/L	1.36	0.54%
Cr 267.716†	18820.5	247.9 ug/L	1.53	247.9 ug/L	1.53	0.62%
Cu 327.393†	21009.8	250.6 ug/L	1.11	250.6 ug/L	1.11	0.44%
Fe 273.955†	15458.5	962.8 ug/L	1.43	962.8 ug/L	1.43	0.15%
K 766.490†	9303.2	4776 ug/L	27.4	4776 ug/L	27.4	0.57%
Mg 285.213†	52959.9	24870 ug/L	280.7	24870 ug/L	280.7	1.13%
Mn 257.610†	1398.9	242.8 ug/L	1.20	242.8 ug/L	1.20	0.49%
Mo 202.031†	6674.7	250.6 ug/L	0.89	250.6 ug/L	0.89	0.35%
Na 589.592†	74096.3	24060 ug/L	307.7	24060 ug/L	307.7	1.28%
Ni 231.604†	9455.9	248.5 ug/L	1.47	248.5 ug/L	1.47	0.59%
P 213.617†	6493.2	1951 ug/L	16.1	1951 ug/L	16.1	0.83%
Pb 220.353†	2517.1	250.5 ug/L	0.34	250.5 ug/L	0.34	0.13%
Sb 206.836†	909.0	227.6 ug/L	1.30	227.6 ug/L	1.30	0.57%
Se 196.026†	681.1	243.4 ug/L	5.05	243.4 ug/L	5.05	2.07%
Sn 189.927†	2356.8	253.6 ug/L	0.90	253.6 ug/L	0.90	0.35%
Sr 421.552†	32606.1	235.4 ug/L	3.61	235.4 ug/L	3.61	1.53%
Ti 337.279†	1751.5	250.4 ug/L	1.09	250.4 ug/L	1.09	0.43%
Tl 190.801†	1032.3	257.1 ug/L	2.50	257.1 ug/L	2.50	0.97%
V 292.402†	34280.0	251.3 ug/L	0.90	251.3 ug/L	0.90	0.36%
Zn 206.200†	25134.0	511.4 ug/L	4.19	511.4 ug/L	4.19	0.82%

ICP-OES Calibration Standard Prep									
Prepared: 10/30/19									
Expires: 11/06/19									
1% HNO3 / 5% HCl Prep: 10/30/19									
Prepared By (Initials): PW									
Calibration Standard 3									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number/ APPL Prep Date	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/L)
Solution A	Texas Scientific	HP1810-250	200 - 5,000	m2meb662248-38391	10/11/20	500uL	100mL	1% HNO3 / 5% HCl	1000 - 25,000
Solution B	Texas Scientific	HP1810-250	4000 - 10,000	m2meb662249-38389	10/11/20	500uL			2000 - 50,000
Solution C	Texas Scientific	HP1810-250	100 - 200	m2meb662250-38394	10/11/20	500uL			500 - 1000
Calibration Standard 2									
ICP-OES Calib Standard 3	Texas Scientific	Standard 2/CCV1	0.5 - 50	Prepared 10/30/19	11/06/19	25mL	50mL	1% HNO3 / 5% HCl	250 - 25,000
Calibration Standard 1									
200.7 LDL	O2Si	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 200
ICP-OES ICV (SS)									
Prepared: 10/28/19									
Expires: 08/09/19									
1% HNO3 / 5% HCl Prep: 10/28/19									
Prepared By (Initials): PW									
ICP-OES ICV 1									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
QCS ICV Soln A	CPI	4400-070615RH01	50 - 500	10062445-8-40746	10/30/20	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 2.5
QCS ICV Soln B	CPI	4400-070615RH01	2,500	10062445-8-40747	10/30/20	250uL			12.5
ICP-OES ICV Ba									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
Custom 23 Element Mix #314	O2Si	161314-01-03	5 - 25,00	1064561-8-38870	08/09/19	1mL	50mL	1% HNO3 / 5% HCl	0.1 - 50
Custom 23 Element Mix #315	O2Si	161314-01-03	10 - 25	1064561-7-38869	08/09/19	1mL			0.2 - 0.5
ICP-OES CCV2									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	APPL Prep Date	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/mL)
ICP-OES Calib Standard 3	Texas Scientific	CCV2	0.5 - 50	Prepared 10/30/19	11/06/19	15mL	50mL	1% HNO3 / 5% HCl	0.15 - 15
ICP-OES Low Levels (LLICV)									
Prepared: 10/30/19									
Expires: 11/13/19									
1% HNO3 / 5% HCl Prep: 10/30/19									
Prepared By (Initials): PW									
LLICV									
Initial Standard Information					Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. Range (ug/L)
200.7 LDL	O2Si	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	250uL	50mL	1% HNO3 / 5% HCl	0.25 - 200
LLICVX2									
200.7 LDL	O2Si	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	500uL	50mL	1% HNO3 / 5% HCl	0.50 - 400
LLICVX6									
200.7 LDL	O2Si	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	1.5mL	50mL	1% HNO3 / 5% HCl	1.5 - 1,200
LLICVX10									
200.7 LDL	O2Si	160634-01-01	0.05 - 100	10080366-1-39117	11/16/19	2.5mL	50mL	1% HNO3 / 5% HCl	2.5 - 2,000
LLICV 10									
ICP-OES Calib Standard 3	Texas Scientific	HP1810-250	0.5 - 50	10080366-1-39117	11/06/19	500uL	50mL	1% HNO3 / 5% HCl	5 - 500
LLICV 50									
ICP-OES Calib Standard 3	Texas Scientific	HP1810-250	0.5 - 50	10080366-1-39117	11/06/19	2.5mL	50mL	1% HNO3 / 5% HCl	25 - 2,500

ICP-OES Interference Check Solution A									
Prepared: <u>10/24/19</u>									
Expires: <u>11/07/19</u>									
1% HNO3 / 5% HCl Prep: <u>10/24/19</u>									
Prepared By (Initials): <u>PW</u>									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Aluminum	Inorganic Ventures	35-APPLTSP-6010ICSA	10,000	N2-MEB670092-39414	07/25/22	500uL	50mL	1% HNO3 / 5% HCl	100
Calcium			10,000						100
Magnesium			10,000						100
Iron			10,000						100
ICP-OES Interference Check Solution AB									
Aluminum	Inorganic Ventures	35-APPLTSP-6010ICSA	10,000	N2-MEB670092-39414	07/25/22	500uL	50mL	1% HNO3 / 5% HCl	100
Calcium			10,000						100
Magnesium			10,000						100
Iron			10,000						100
Special Mix (Interference)	O2Si	160495-01-01	100	10081266-39278	12/13/19	250uL			0.5
ICP-OES Internal Standards									
Prepared: <u>10/28/18</u>									
Expires: <u>11/28/18</u>									
1% HNO3 / 5% HCl Prep: <u>10/28/18</u>									
Prepared By (Initials): <u>PW</u>									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (mg/L)	Lot Number - QA Number	Exp Date	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (mg/L)
Yttrium	O2Si	060039-04-03	1,000	10083563-39486	01/27/20	4mL	2L	1% HNO3 / 5% HCl	2

Metals Digestion Worksheet

Method Name 3010A Digestion

Prep Method M3010

Set 191028B

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 10064561-11-41208 Pipette AP-21
Spiked ID 2	LCSW LOT# 10064561-12-41210
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 10/28/19 9:52:00 AM
Witnessed By	PW Date: 10/28/19 9:52:00 AM

Starting Temp:	SLOT 14 THERM:MT1 92.2C
Ending Temp:	SLOT 14 95.2C
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	YES
End Date/Time	10/28/19 13:31

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	191028B Blk			50mL	50mL	10/28/19 9:52	equip: Modblock2
2	191028B LCS	500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
3	191028B LCSD	500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
4	BA01212 BA01212W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
5	BA01213 BA01213W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
6	BA01214 BA01214W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
7	BA01215 BA01215W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
8	BA01216 BA01216W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
9	BA01217 BA01217W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
10	BA01220 BA01220W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
11	BA01221 BA01221W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
12	BA01222 BA01222W07			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
13	BA01223 BA01223W07			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
14	BA01224 BA01224W06			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
15	BA01225 BA01225W05			50mL	50mL	10/28/19 9:52	equip: Modblock2 90435
16	BA01225 DUP BA01225W05			50mL	50mL	10/28/19 9:52	equip: Modblock2
17	BA01225 MS BA01225W05	500uL	1+2	50mL	50mL	10/28/19 9:52	equip: Modblock2
18	BA01662 BA01662W24			50mL	50mL	10/28/19 9:52	equip: Modblock2 90532
19	BA01664 BA01664W24			50mL	50mL	10/28/19 9:52	equip: Modblock2 90532
20	BA01784 BA01784W20			50mL	50mL	10/28/19 9:52	equip: Modblock2 90551

Solvent and Lot#
HNO3 BDH 1119020 15581
1:1 HCL 10-22-19
50mL vessel 190916

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	PW
Date	10/30/19
Time	11:41
Moved to	METALS

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	
Modified	10/28/19 9:43:01 AM

Reviewed By: *PW* Date: *10/30/19*

6010C/3010A Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	30 Oct 2019	08:56	CalBlk 191030 I:PB O:PW		191030A200	1.
2	30 Oct 2019	09:01	STD 1 191030 I:PB O:PW		191030A200	1.
3	30 Oct 2019	09:06	STD 2 191030 I:PB O:PW		191030A200	1.
4	30 Oct 2019	09:11	STD 3 191030 I:PB O:PW		191030A200	1.
5	30 Oct 2019	09:14	ICV 191030 I:PB O:PW		191030A200	1.
6	30 Oct 2019	09:29	ICB 191030 I:PB O:PW		191030A200	1.
7	30 Oct 2019	09:34	LLICV 191030 I:PB O:PW		191030A200	1.
8	30 Oct 2019	09:39	LLICVX2 191030 I:PB O:PW		191030A200	1.
9	30 Oct 2019	09:44	LLICVX6 191030 I:PB O:PW		191030A200	1.
10	30 Oct 2019	09:55	ICSA 191030 I:PB O:PW		191030A200	1.
11	30 Oct 2019	10:00	ICSAB 191030 I:PB O:PW		191030A200	1.
38	30 Oct 2019	13:20	CCV1 191030 I:PB O:PW		191030A200	1.
39	30 Oct 2019	13:25	CCB 191030 I:PB O:PW		191030A200	1.
40	30 Oct 2019	13:30	191028B BLK		191030A200	1.
41	30 Oct 2019	13:34	191028B LCS		191030A200	1.
42	30 Oct 2019	13:39	191028B LCSD		191030A200	1.
45	30 Oct 2019	13:53	BA01784W20 DF5		191030A200	5.
46	30 Oct 2019	13:58	CCV2 191030 I:PB O:PW		191030A200	1.
47	30 Oct 2019	14:03	CCB 191030 I:PB O:PW		191030A200	1.

INORGANIC ANALYSIS
Calibration Data

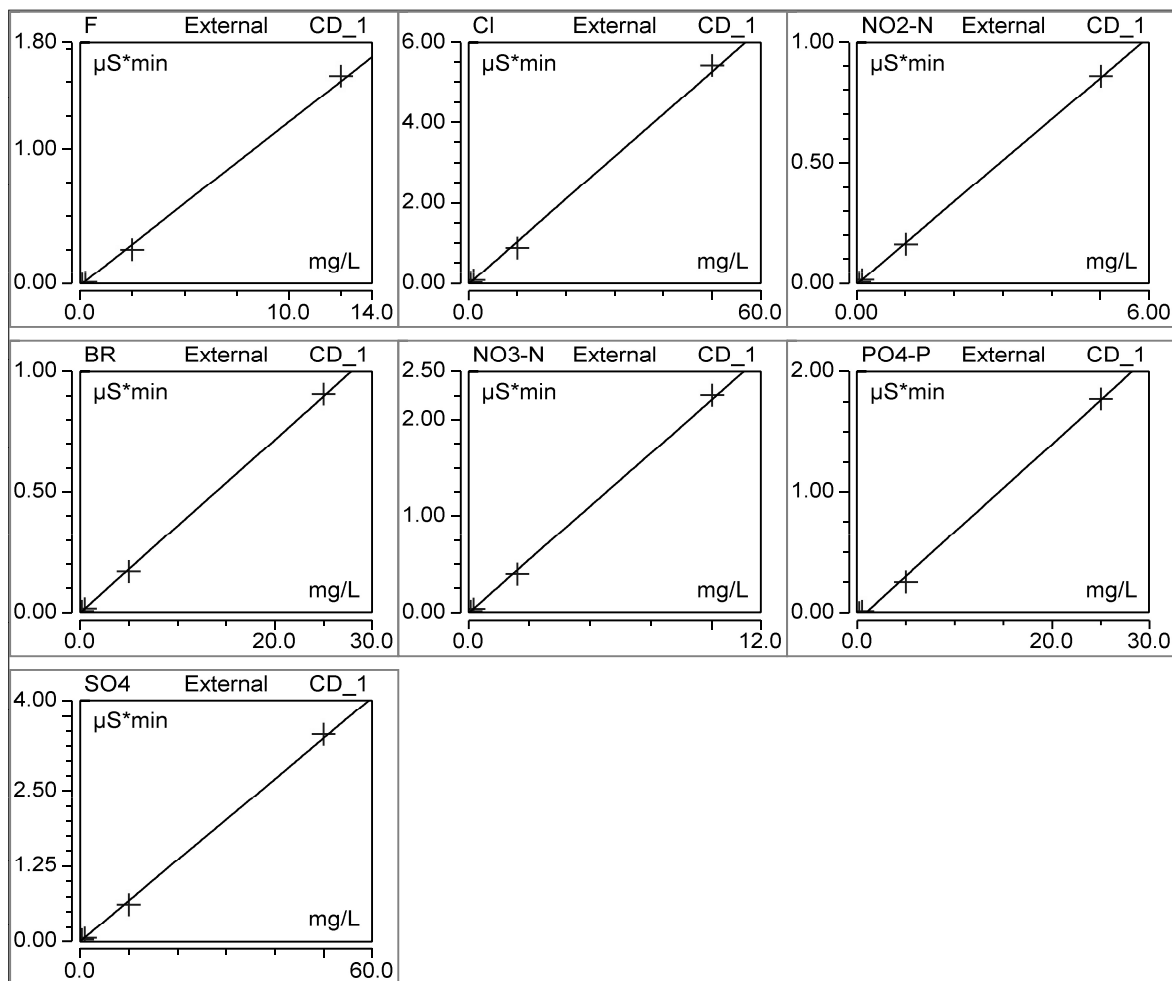
Calibration Batch Report

Sequence:	190925 300W_ICAL	Injection Volume:	25.00
Instrument Method:	Anions IM	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:16	Run Time:	5.1

Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
F	Area	Lin, WithOffset, 1/A	4.000	-0.014	0.122	0.000	99.5887
Cl	Area	Lin, WithOffset, 1/A	4.000	-0.016	0.106	0.000	99.5281
NO2-N	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.171	0.000	99.9672
BR	Area	Lin, WithOffset, 1/A	4.000	-0.001	0.036	0.000	99.9396
NO3-N	Area	Lin, WithOffset, 1/A	4.000	-0.004	0.222	0.000	99.7842
PO4-P	Area	Lin, WithOffset	3.000	-0.065	0.073	0.000	99.7793
SO4	Area	Lin, WithOffset, 1/A	4.000	-0.004	0.068	0.000	99.7924

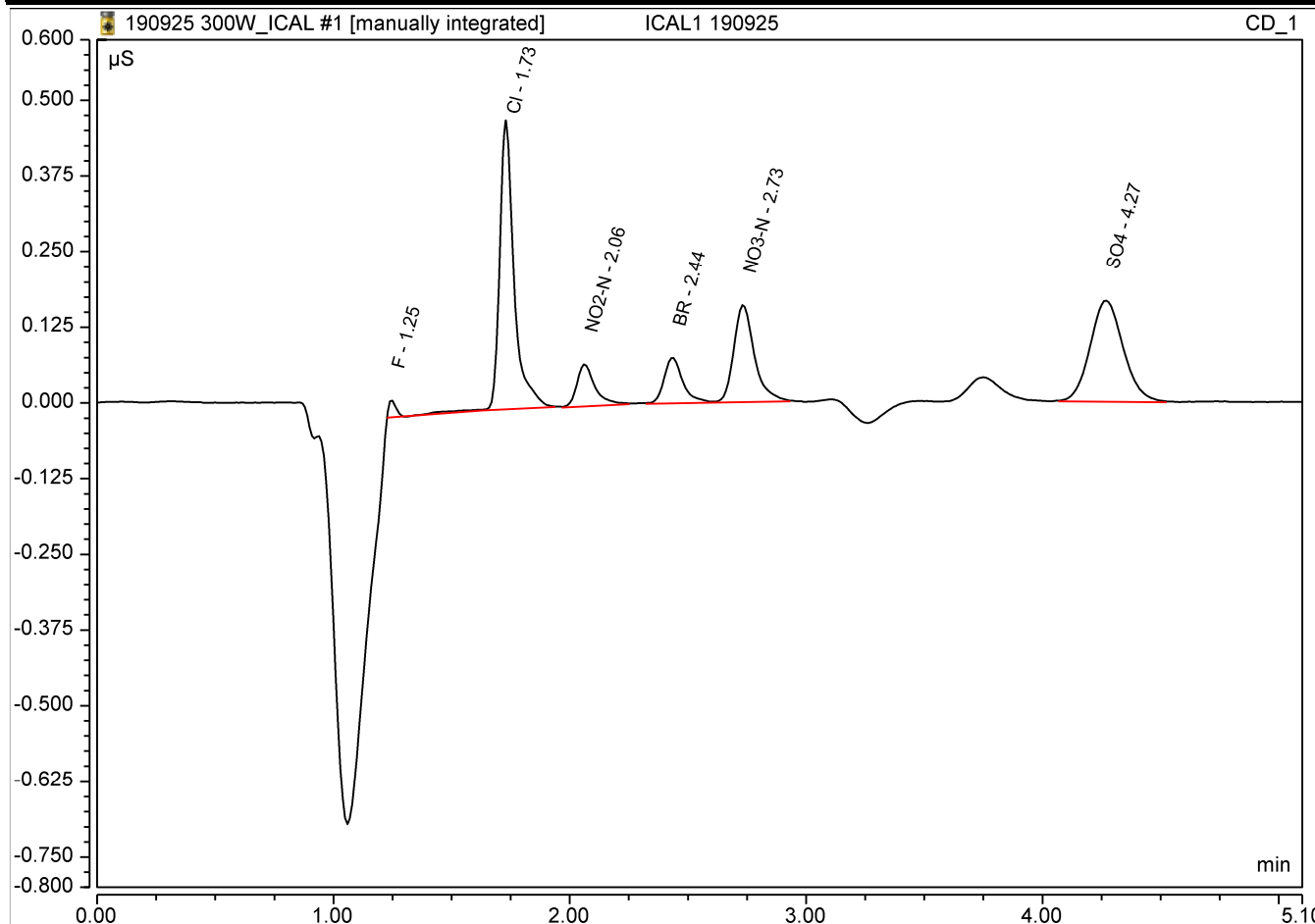
Injection Name	Amount mg/L CD_1 F	Amount mg/L CD_1 Cl	Amount mg/L CD_1 NO2-N	Amount mg/L CD_1 BR	Amount mg/L CD_1 NO3-N	Amount mg/L CD_1 PO4-P	Amount mg/L CD_1 SO4
ICAL1 190925	0.126	0.4596	0.0412	0.2113	0.0904	n.a.	0.4586
ICAL2 190925	0.210	0.9697	0.1002	0.4928	0.1895	1.0431	0.9277
ICAL5 190925	2.193	8.5222	0.9607	4.7374	1.8054	4.3347	9.0681
ICAL8 190925	12.821	51.4484	5.0379	25.2585	10.1947	25.1222	50.9456



Peak Integration Report

Sample Name:	ICAL1 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 16:54	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.25	F	Mb*	0.001	0.027	0.13	0.1	125.5%
2	1.73	Cl	bMB*	0.033	0.477	0.46	0.4	114.9%
3	2.06	NO2-N	BMB	0.006	0.068	0.04	0.04	103.0%
4	2.44	BR	BMB	0.007	0.074	0.21	0.2	105.7%
5	2.73	NO3-N	BMB	0.016	0.159	0.09	0.08	113.1%
6	4.27	SO4	BMB	0.027	0.166	0.46	0.4	114.7%

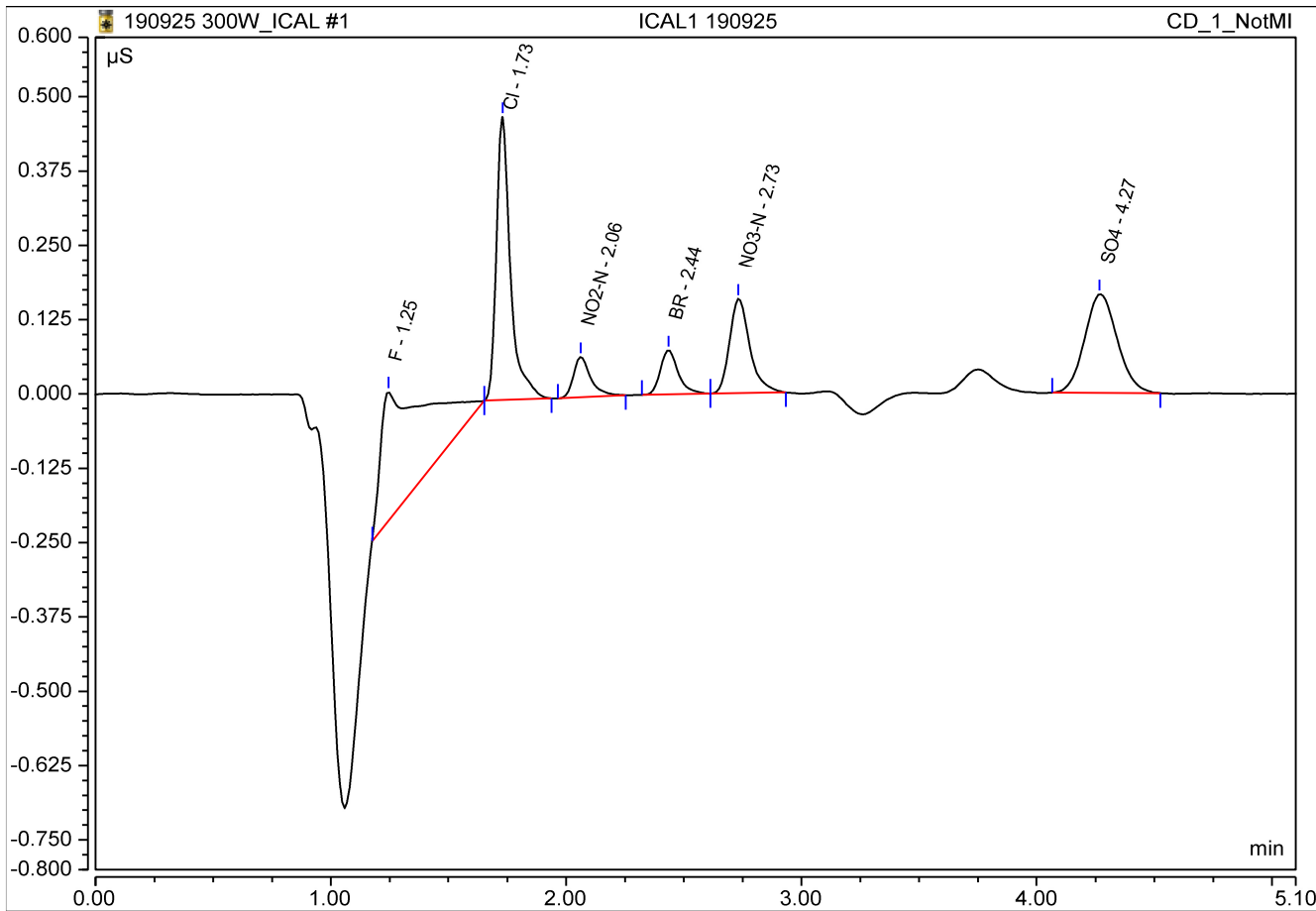


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL1 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 16:54	Run Time:	5.10

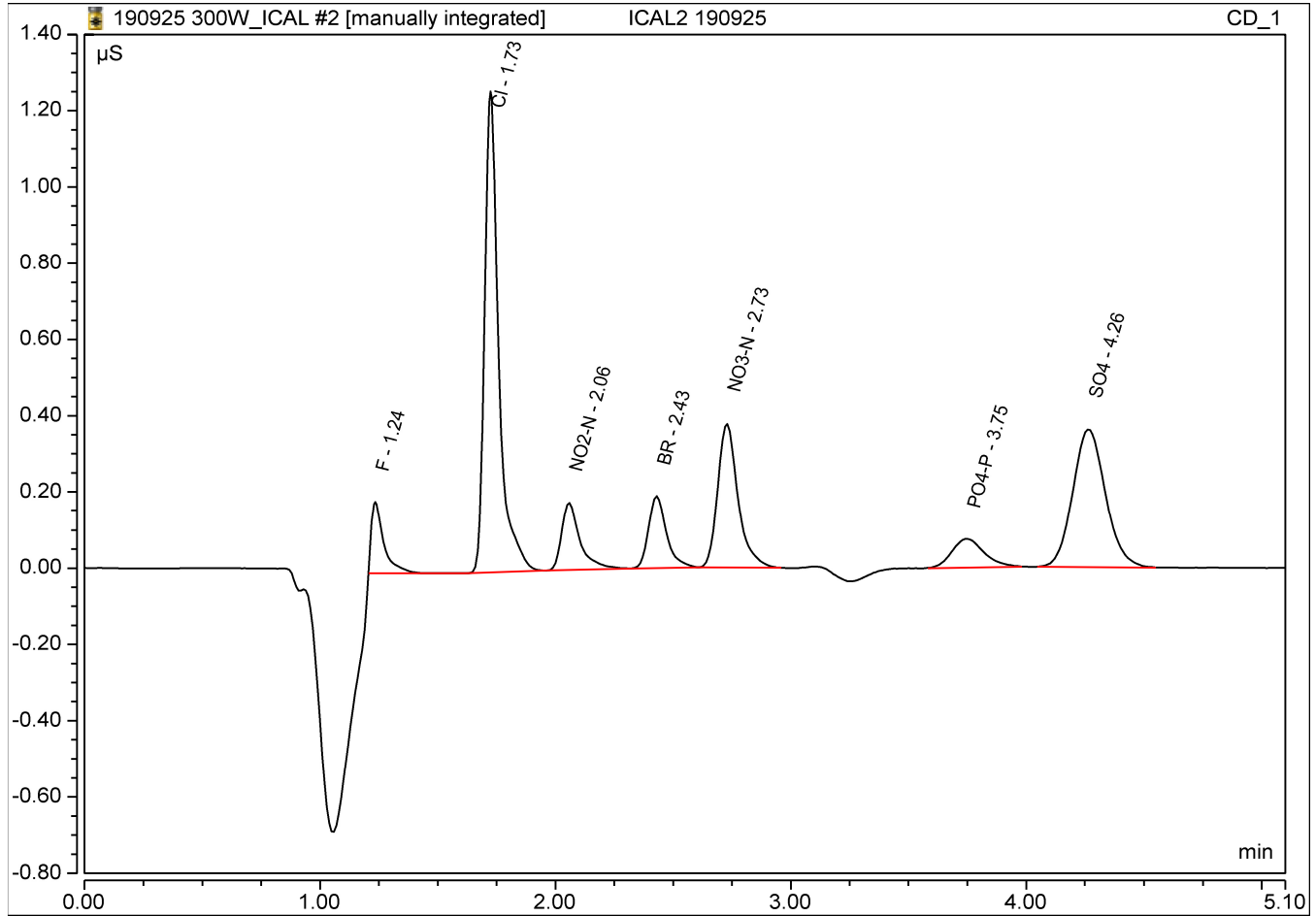
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.25	F	Mb*	0.048	0.218	0.1074
2	1.73	Cl	bMB*	0.033	0.476	0.4595
3	2.06	NO ₂ -N	BMB	0.006	0.068	0.0412
4	2.44	BR	BMB	0.007	0.074	0.2113
5	2.73	NO ₃ -N	BMB	0.016	0.159	0.0904
6	4.27	SO ₄	BMB	0.027	0.166	0.4586



Peak Integration Report

Sample Name:		ICAL2 190925			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:01			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	Mb*	0.011	0.188	0.21	0.25	84.2%
2	1.73	Cl	bMB*	0.087	1.261	0.97	1	97.0%
3	2.06	NO2-N	BMB	0.016	0.178	0.10	0.1	100.2%
4	2.43	BR	BMB	0.017	0.190	0.49	0.5	98.6%
5	2.73	NO3-N	BMB	0.038	0.379	0.19	0.2	94.7%
6	3.75	PO4-P	BMB	0.012	0.075	1.04	0.5	208.6%
7	4.26	SO4	BMB	0.058	0.363	0.93	1	92.8%

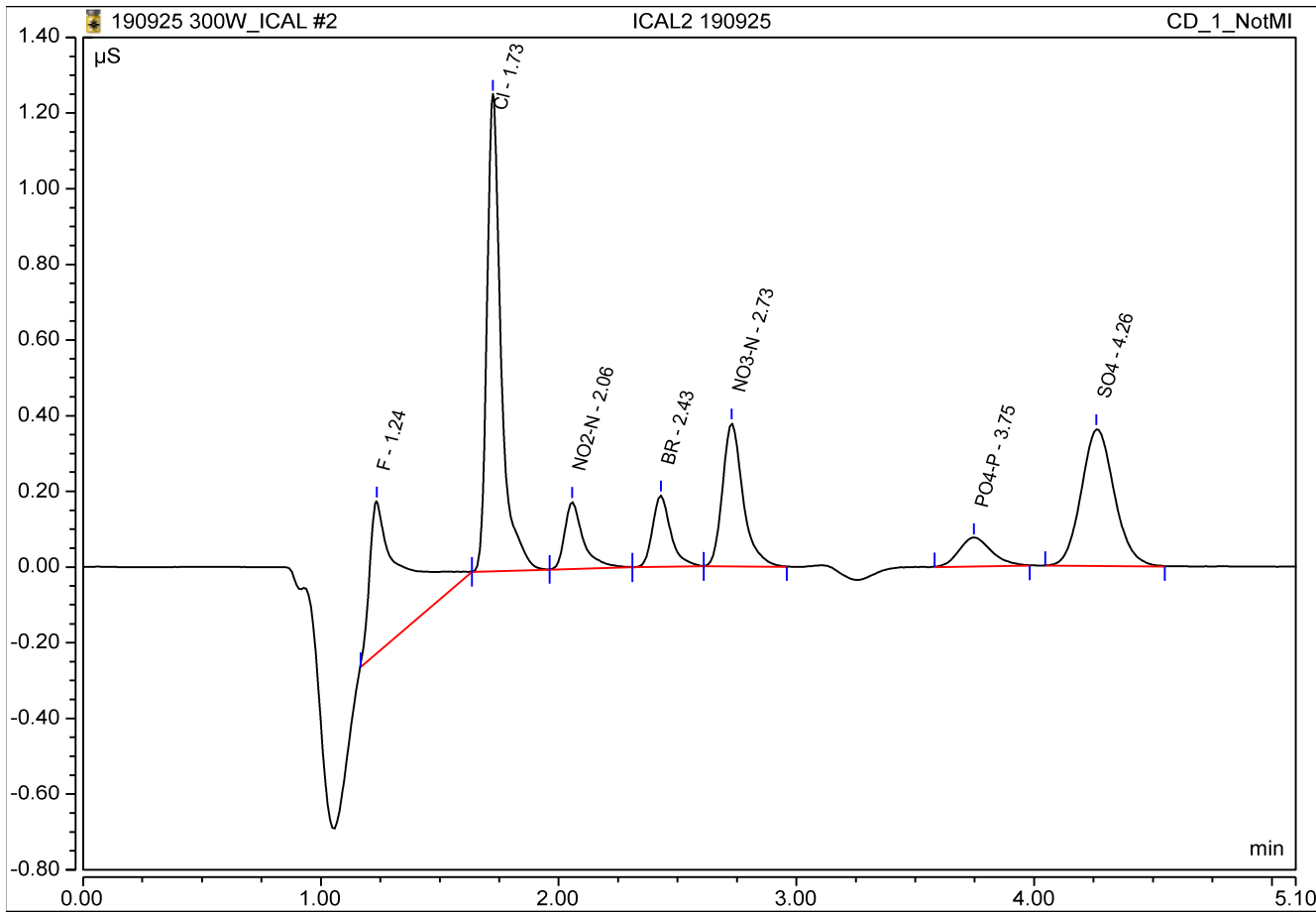


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL2 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:01	Run Time:	5.10

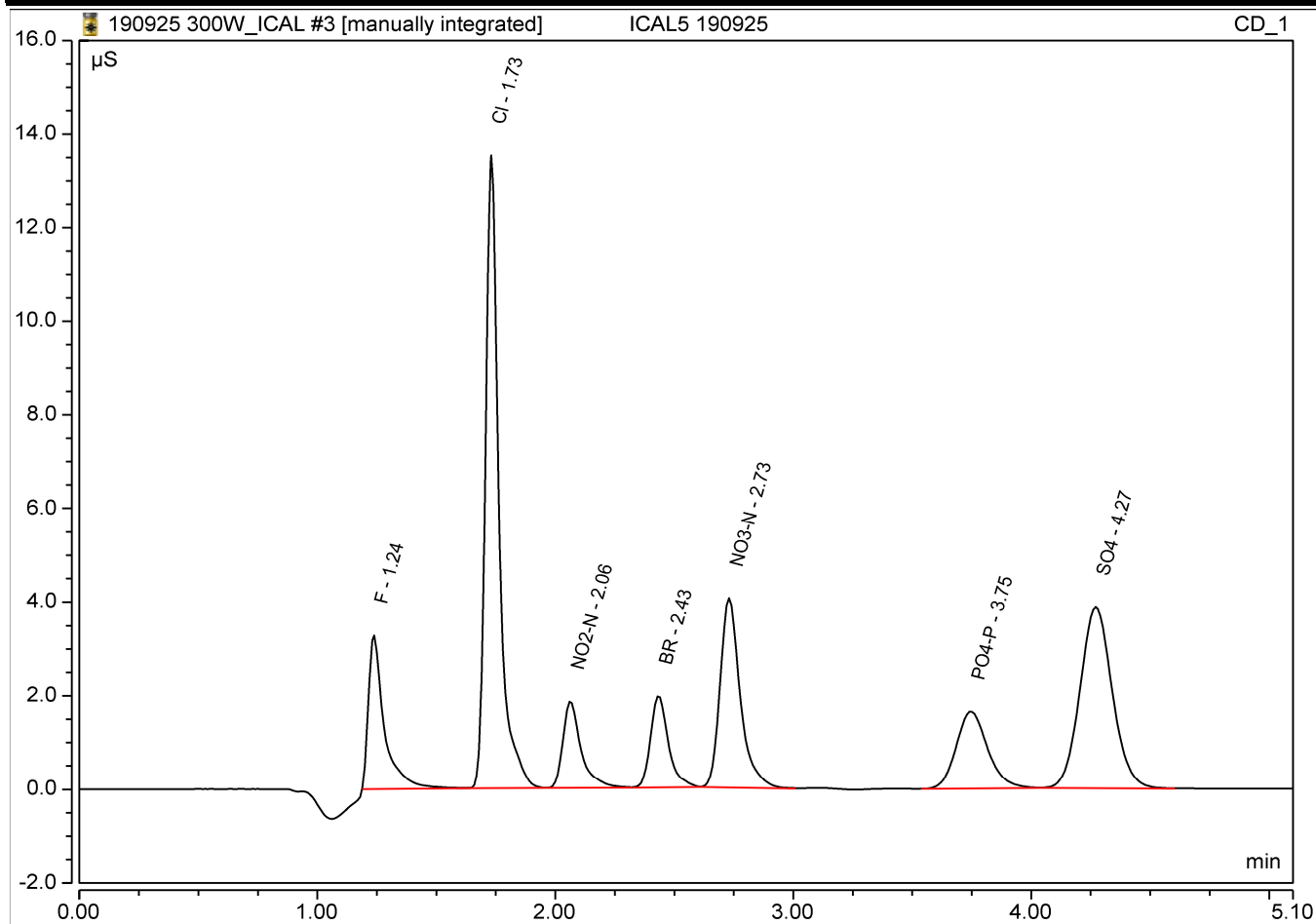
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.24	F	Mb*	0.064	0.402	0.2430
2	1.73	Cl	bMB*	0.087	1.261	0.9701
3	2.06	NO2-N	BMB	0.016	0.178	0.1002
4	2.43	BR	BMB	0.017	0.190	0.4928
5	2.73	NO3-N	BMB	0.038	0.379	0.1895
6	3.75	PO4-P	BMB	0.012	0.075	1.0431
7	4.26	SO4	BMB	0.058	0.363	0.9277



Peak Integration Report

Sample Name:		ICAL5 190925			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:09			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.24	F	MB*	0.254	3.299	2.19	2.5	87.7%
2	1.73	Cl	BMB	0.888	13.520	8.52	10	85.2%
3	2.06	NO2-N	BMB	0.163	1.858	0.96	1	96.1%
4	2.43	BR	BMB	0.169	1.960	4.74	5	94.7%
5	2.73	NO3-N	BMB	0.396	4.038	1.81	2	90.3%
6	3.75	PO4-P	BMB	0.252	1.652	4.33	5	86.7%
7	4.27	SO4	BMB	0.608	3.869	9.07	10	90.7%

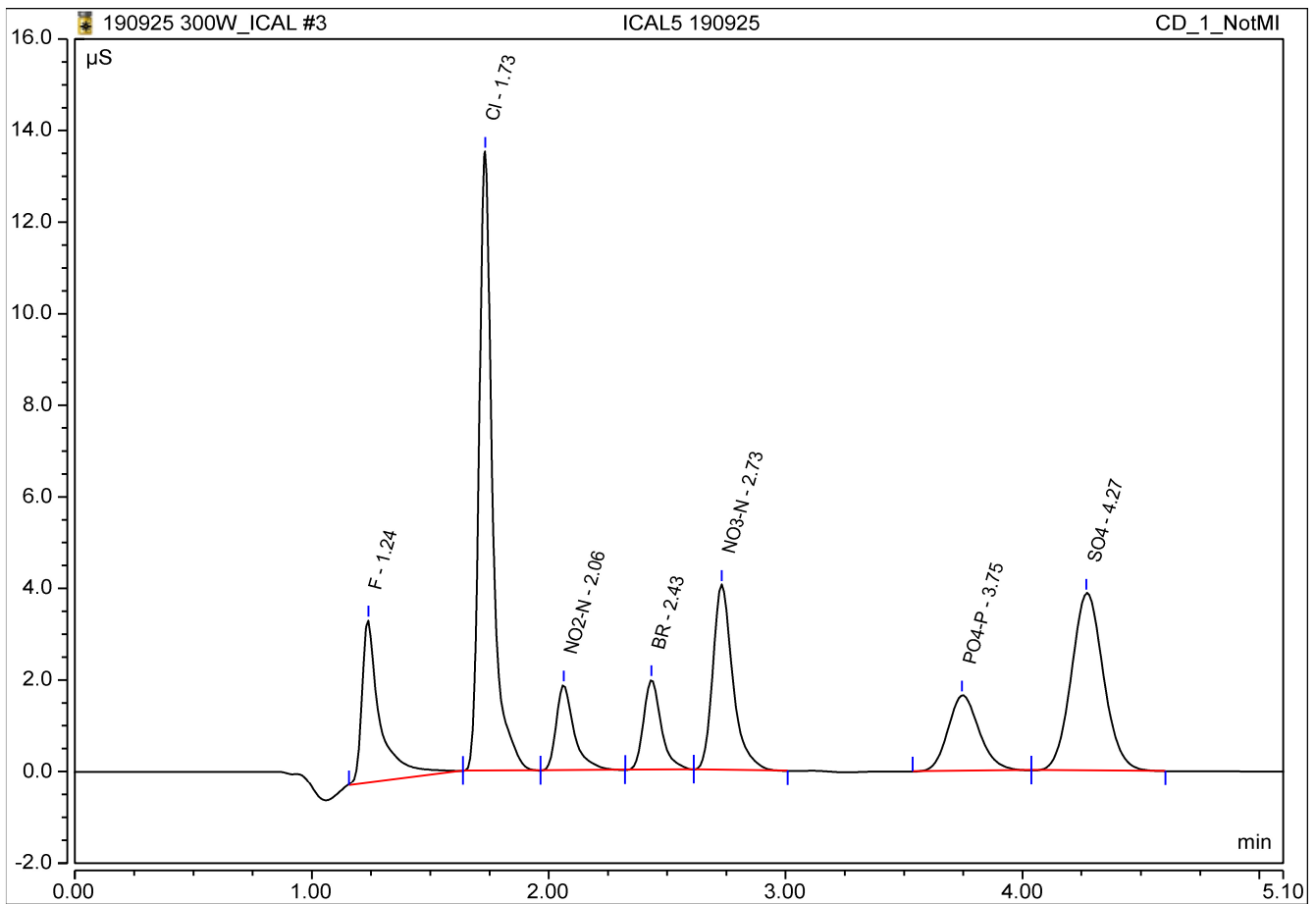


MI1 BW 190925

Not Manipulated Peak Integration Report

Sample Name:	ICAL5 190925	Inj. Vol.:	25uL
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:09	Run Time:	5.10

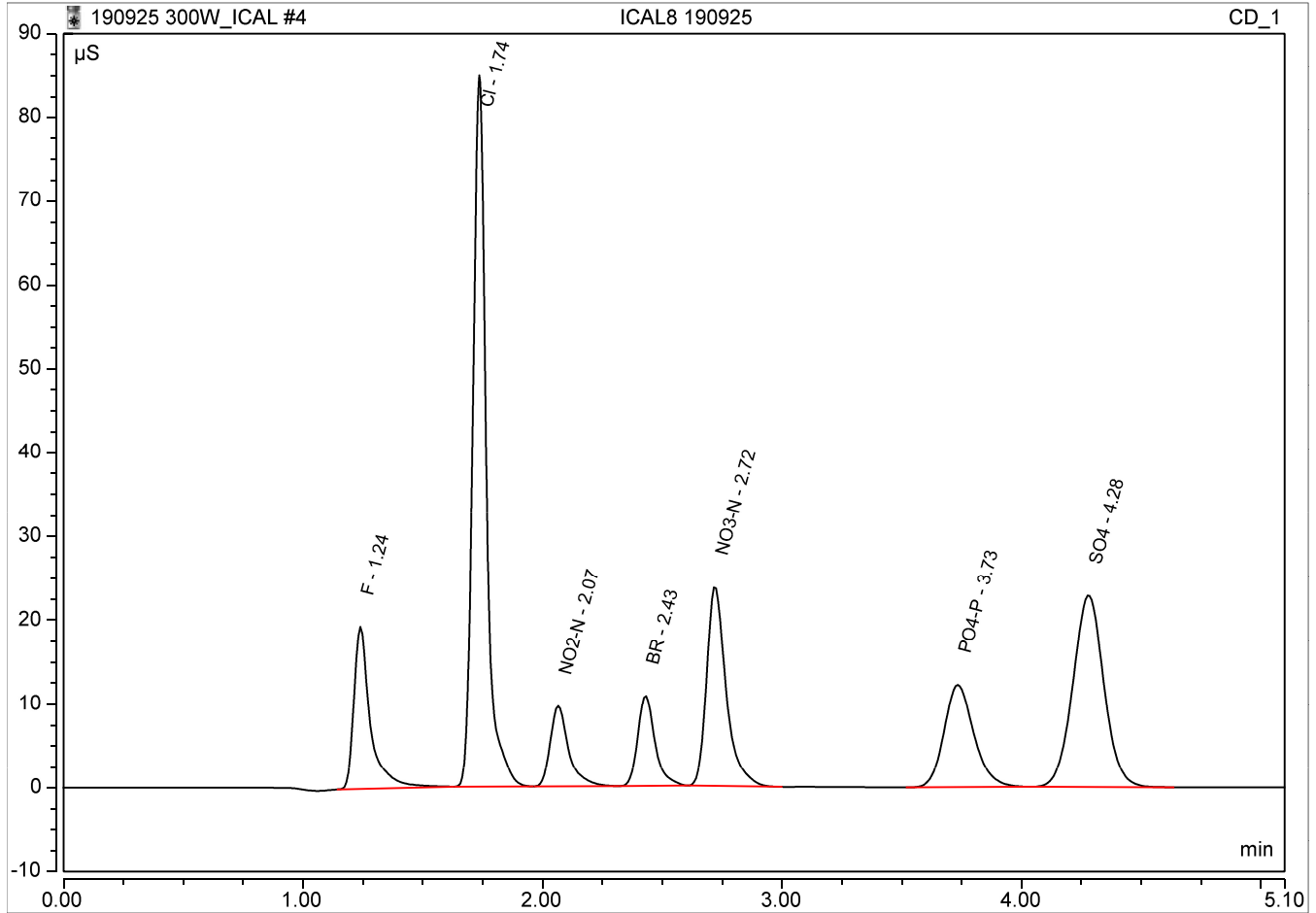
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.24	F	MB*	0.317	3.541	2.3555
2	1.73	Cl	BMB	0.888	13.520	8.5227
3	2.06	NO2-N	BMB	0.163	1.858	0.9607
4	2.43	BR	BMB	0.169	1.960	4.7374
5	2.73	NO3-N	BMB	0.396	4.038	1.8054
6	3.75	PO4-P	BMB	0.252	1.652	4.3347
7	4.27	SO4	BMB	0.608	3.869	9.0681



Peak Integration Report

Sample Name:		ICAL8 190925			Inj. Vol.:		25uL	
Injection Type:		Calibration Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:16			Run Time:		5.10	

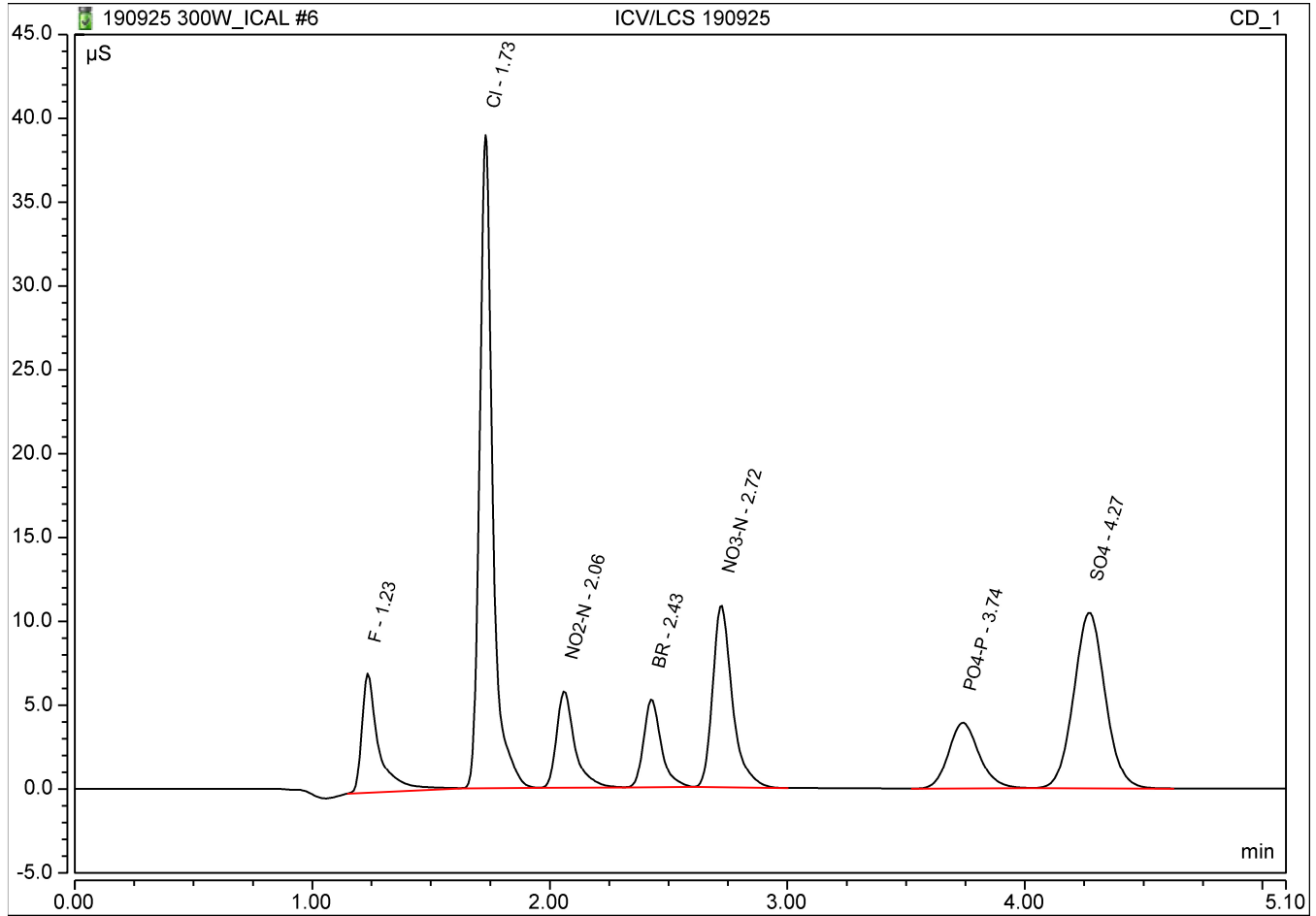
No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.24	F	BMB	1.552	19.416	12.82	12.5	102.6%
2	1.74	Cl	BMB	5.438	84.821	51.45	50	102.9%
3	2.07	NO2-N	BMB	0.862	9.634	5.04	5	100.8%
4	2.43	BR	BMB	0.906	10.832	25.26	25	101.0%
5	2.72	NO3-N	BMB	2.255	23.813	10.19	10	101.9%
6	3.73	PO4-P	BMB	1.773	12.273	25.12	25	100.5%
7	4.28	SO4	BMB	3.437	22.889	50.95	50	101.9%



Peak Integration Report

Sample Name:		ICV/LCS 190925			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Sep-2019 / 17:31			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (µS*min)	Height (µS)	Amount	Spike Level	Recovery
	min			µS*min	µS	mg/L	mg/L	
1	1.23	F	BMB	0.591	7.128	4.95	5	99.0%
2	1.73	Cl	BMB	2.480	38.952	23.54	25	94.2%
3	2.06	NO2-N	BMB	0.510	5.775	2.99	3.04	98.2%
4	2.43	BR	BMB	0.448	5.264	12.51	12.5	100.1%
5	2.72	NO3-N	BMB	1.047	10.885	4.74	5	94.8%
6	3.74	PO4-P	BMB	0.590	3.949	8.95	10	89.5%
7	4.27	SO4	BMB	1.609	10.485	23.88	25	95.5%



Algorithm Check

y = Peak Area

x = mg/L S04

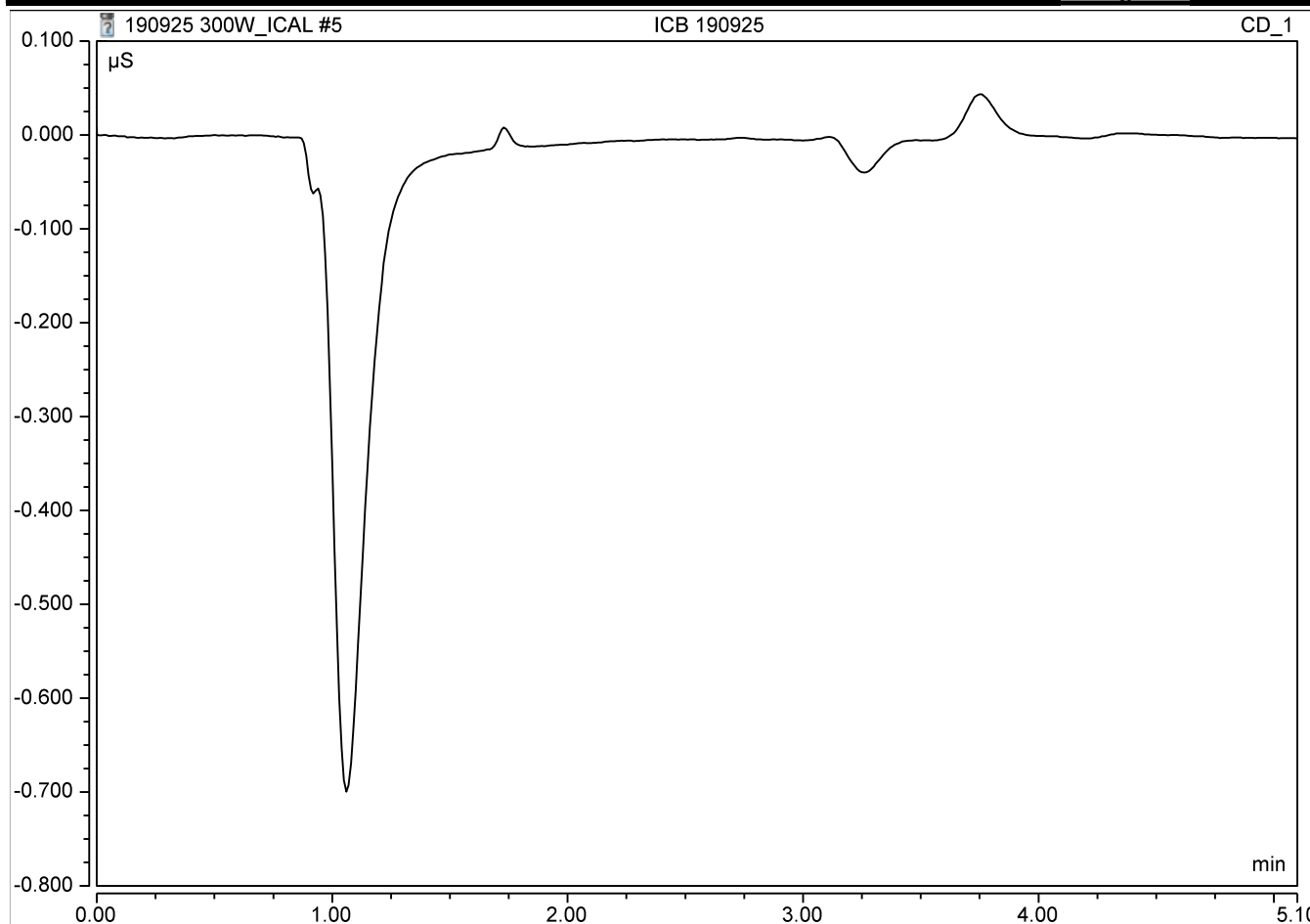
$$y = 0.0676 \quad x + \quad -0.0044$$

$$y = 1.6089 \quad \text{therefor } x = 23.86 \text{ HH 190929}$$

Peak Integration Report

Sample Name:	ICB 190925	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Sep-2019 / 17:24	Run Time:	5.10

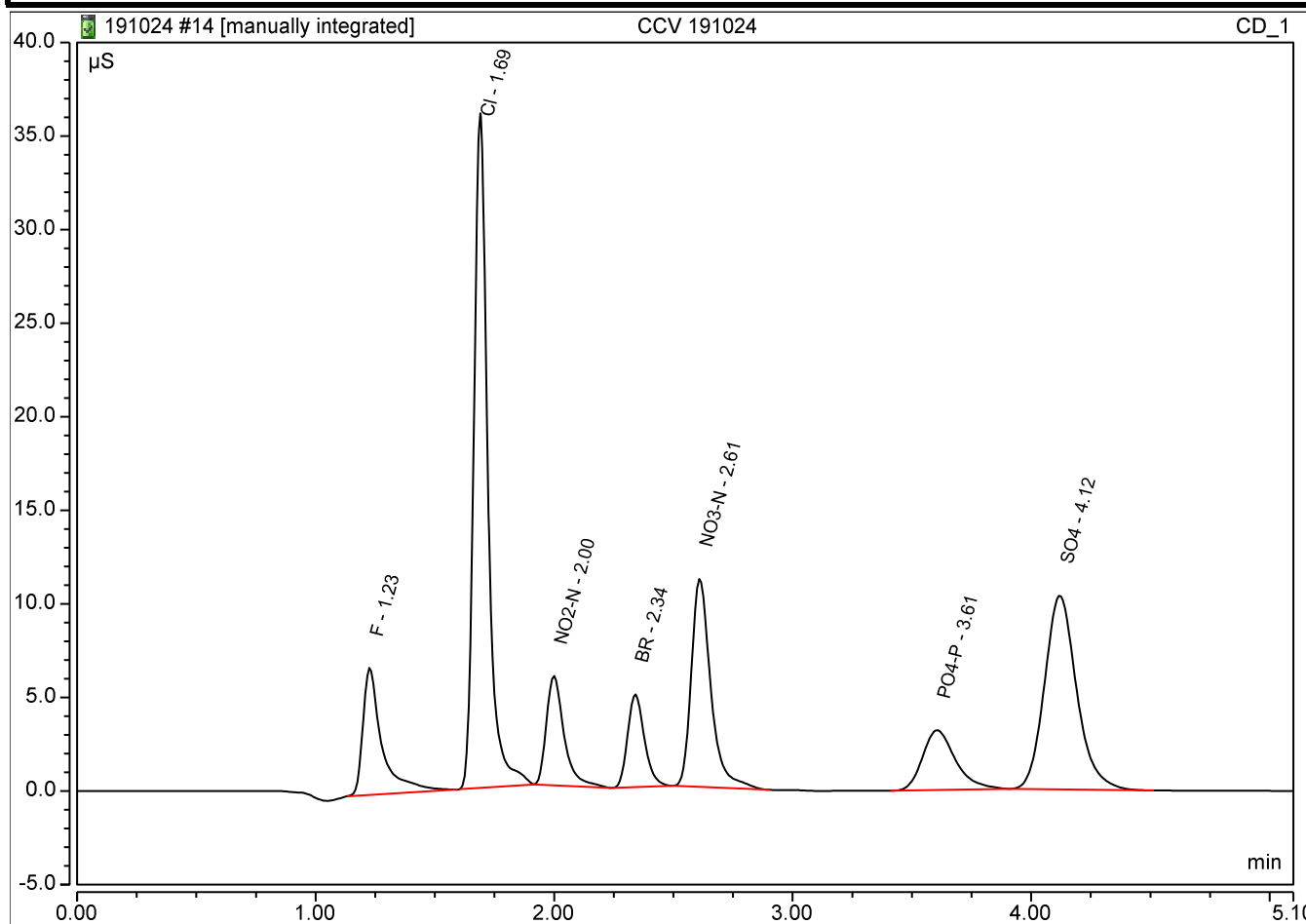
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	



Peak Integration Report

Sample Name:	CCV 191024	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:22	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.629	6.793	5.26	5	105.3%
2	1.69	Cl	BMB*	2.432	36.052	23.09	25	92.4%
3	2.00	NO2-N	bMB*	0.503	5.841	2.94	3.04	96.9%
4	2.34	BR	BMB	0.407	4.971	11.35	12.5	90.8%
5	2.61	NO3-N	BMB	1.053	11.133	4.77	5	95.5%
6	3.61	PO4-P	BMB	0.511	3.196	7.87	10	78.7%
7	4.12	SO4	BMB	1.618	10.357	24.02	25	96.1%

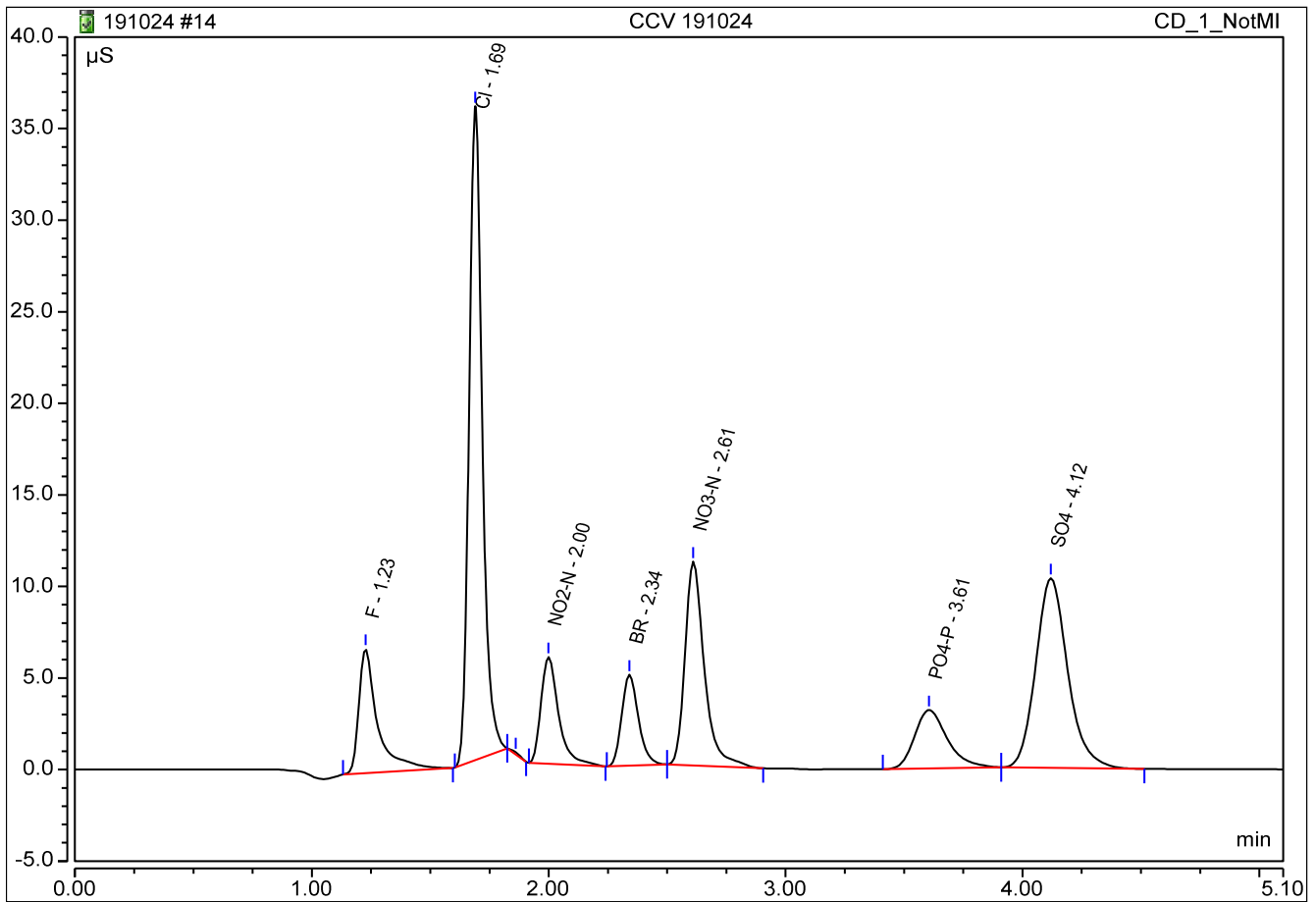


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	CCV 191024	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:22	Run Time:	5.10

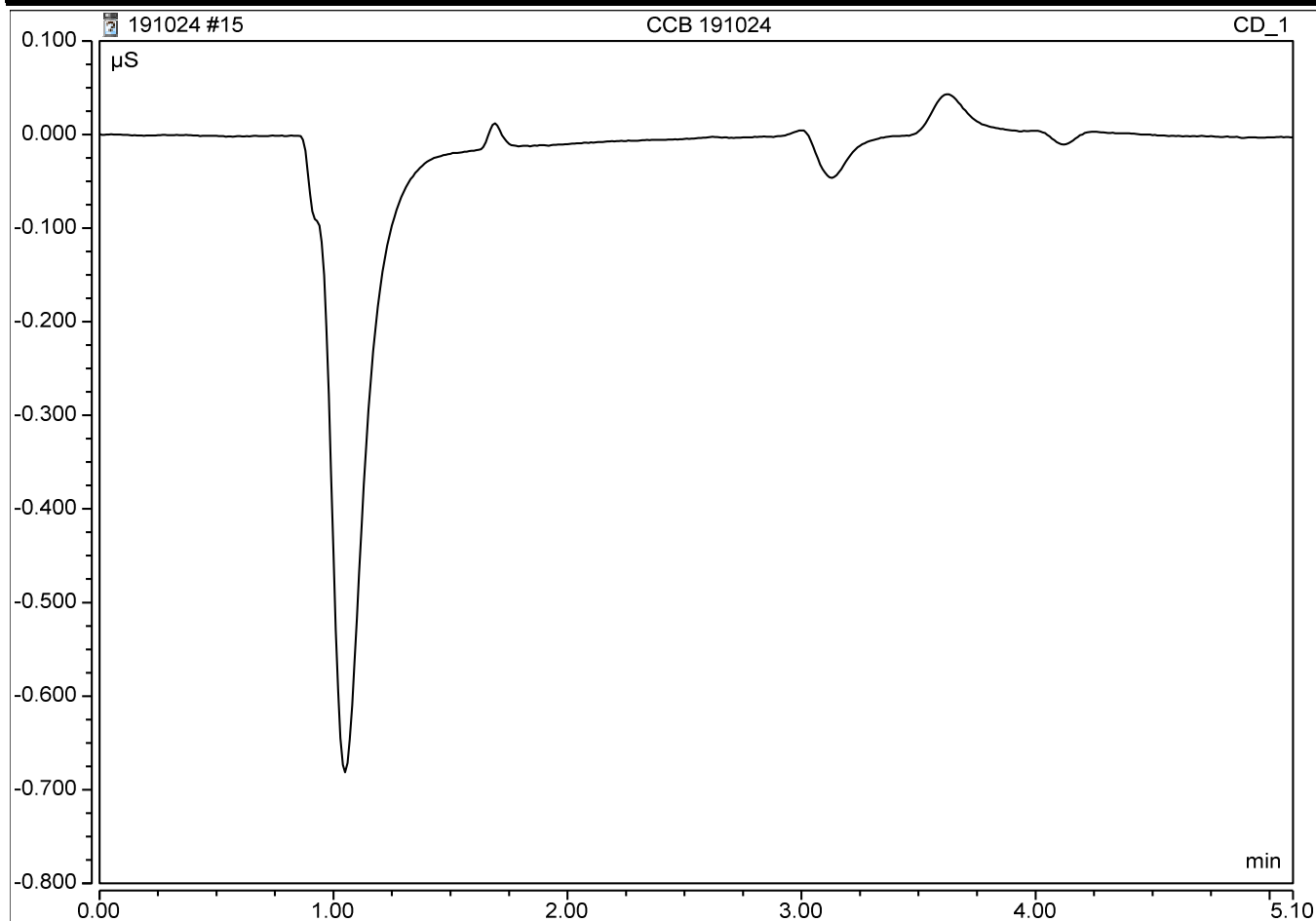
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.629	6.793	4.9496
2	1.69	Cl	BMB*	2.292	35.710	21.7736
3	2.00	NO ₂ -N	bMB*	0.503	5.841	2.9450
4	2.34	BR	BMB	0.407	4.971	11.3507
5	2.61	NO ₃ -N	BMB	1.053	11.133	4.7730
6	3.61	PO ₄ -P	BMB	0.511	3.196	7.8686
7	4.12	SO ₄	BMB	1.618	10.357	24.0197



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:30	Run Time:	5.10

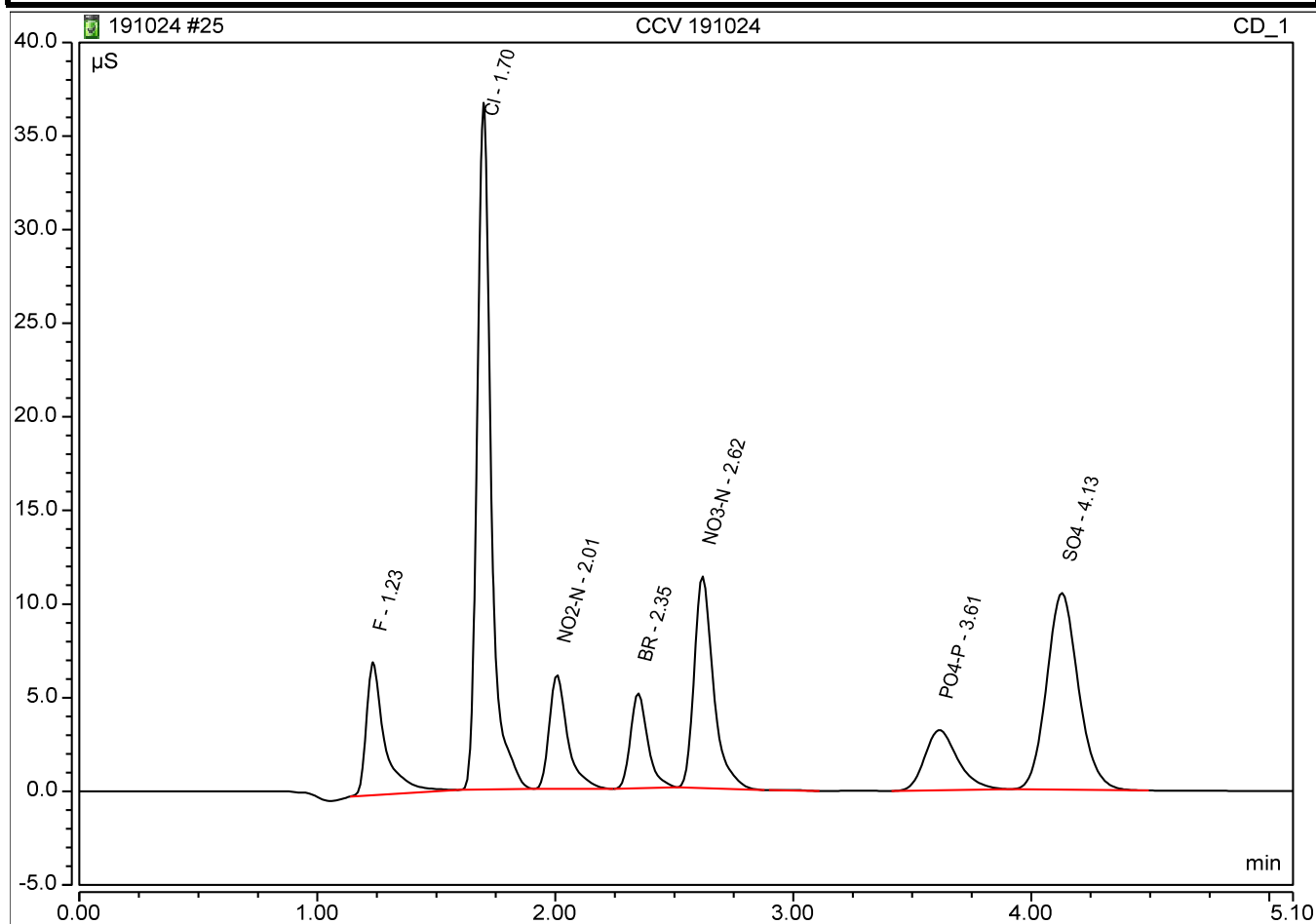
No.	Time (min) min	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$) $\mu\text{S}\cdot\text{min}$	Height (μS) μS	Amount mg/L	Spike Level mg/L	Recovery
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Peak Integration Report

Sample Name:	CCV 191024	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:44	Run Time:	5.10

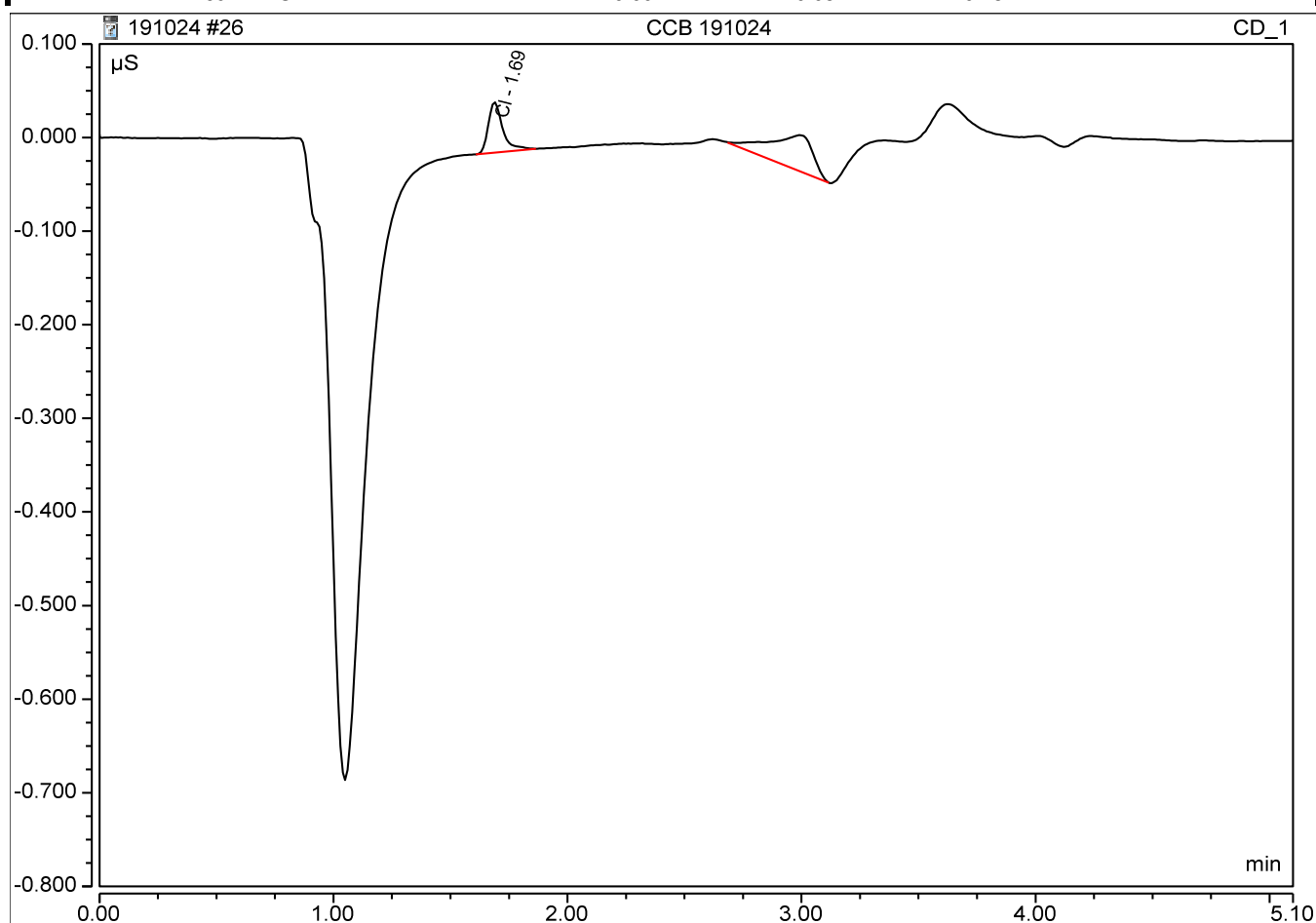
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB	0.641	7.109	5.36	5	107.3%
2	1.70	Cl	BMB	2.487	36.689	23.61	25	94.4%
3	2.01	NO ₂ -N	BMB	0.546	6.096	3.20	3.04	105.1%
4	2.35	BR	BMB	0.427	5.078	11.92	12.5	95.4%
5	2.62	NO ₃ -N	BMB	1.067	11.318	4.83	5	96.7%
7	3.61	PO ₄ -P	BMB	0.517	3.217	7.95	10	79.5%
8	4.13	SO ₄	BMB	1.627	10.501	24.15	25	96.6%



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:52	Run Time:	5.10

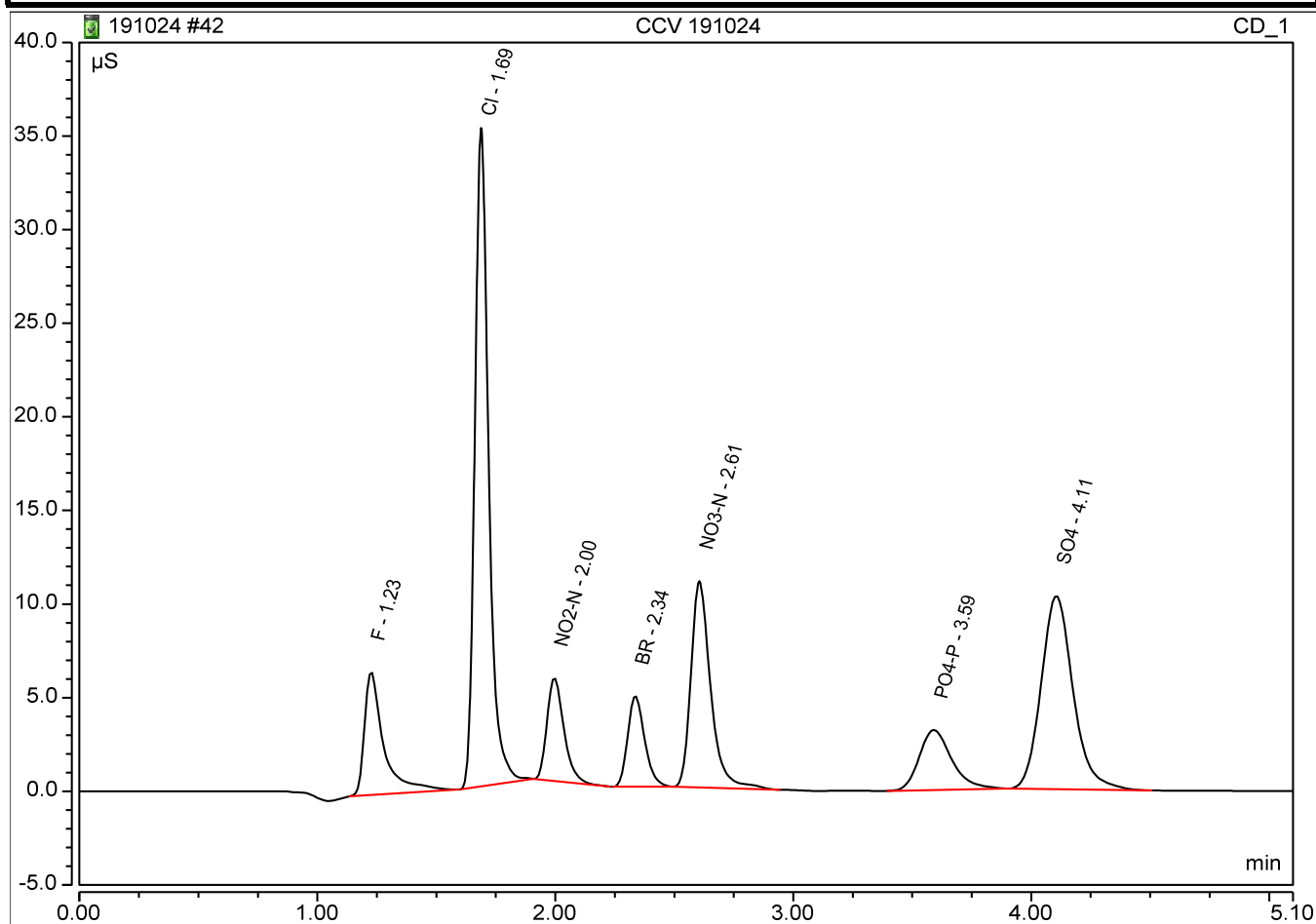
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	0.004	0.054	0.18		



Peak Integration Report

Sample Name:	CCV 191024	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 08:51	Run Time:	5.10

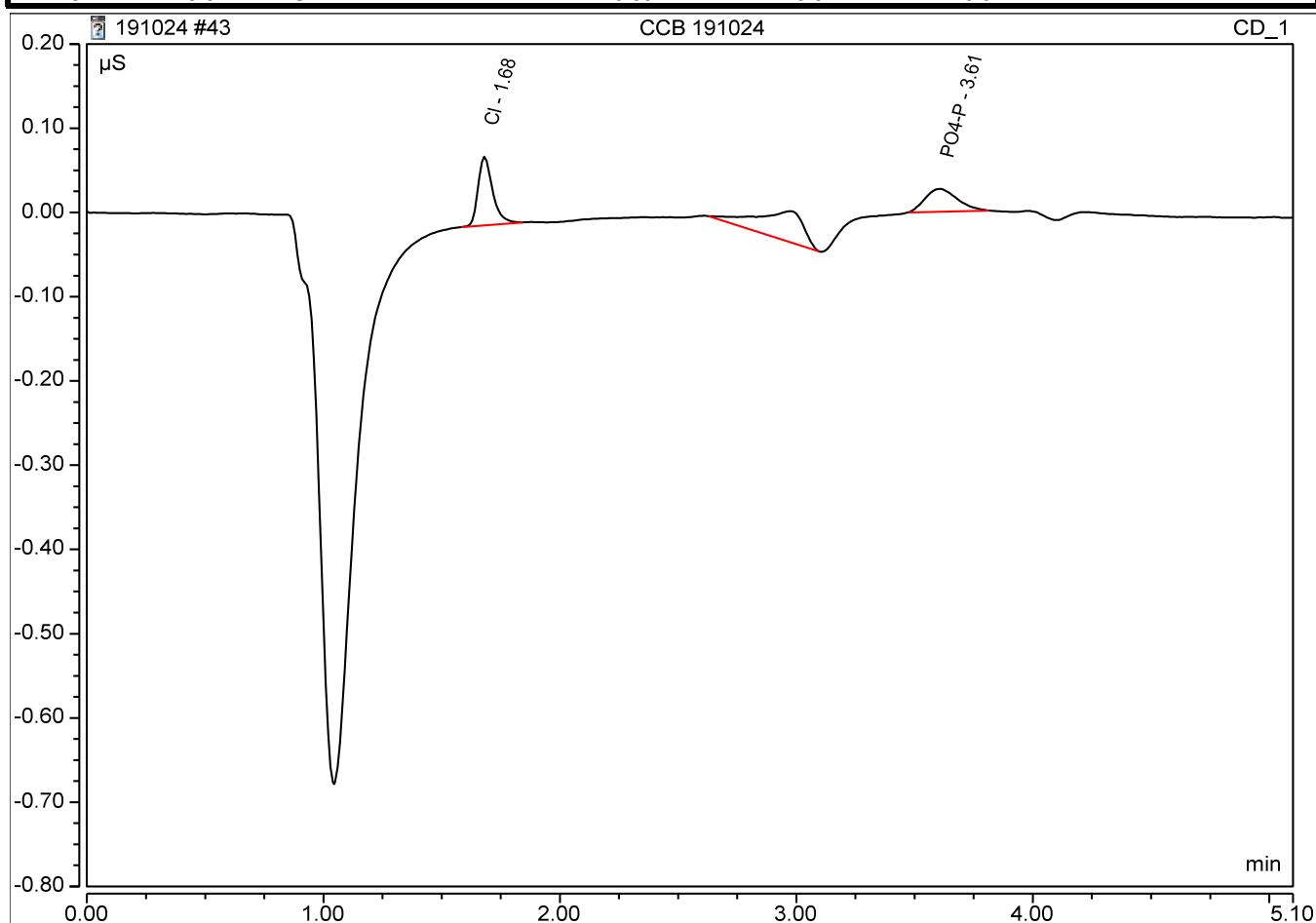
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S} \cdot \text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S} \cdot \text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB	0.621	6.580	5.20	5	104.0%
2	1.69	Cl	BMB	2.357	35.173	22.39	25	89.5%
3	2.00	NO ₂ -N	BMB	0.457	5.510	2.68	3.04	88.0%
4	2.34	BR	BMB	0.403	4.864	11.25	12.5	90.0%
5	2.61	NO ₃ -N	BMB	1.058	11.026	4.79	5	95.9%
6	3.59	PO ₄ -P	BMB	0.507	3.203	7.81	10	78.1%
7	4.11	SO ₄	BMB	1.608	10.329	23.87	25	95.5%



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 08:59	Run Time:	5.10

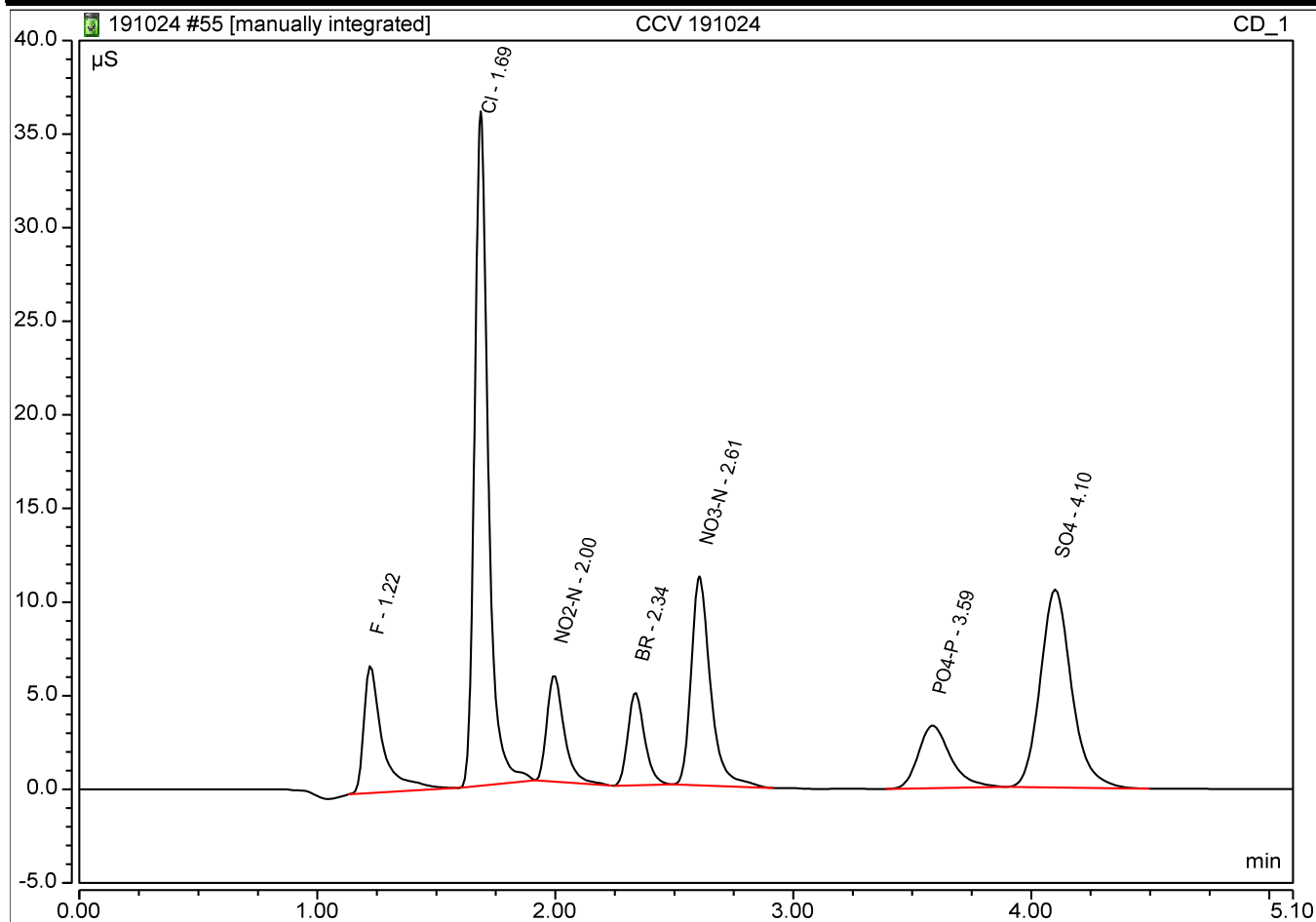
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
1	1.68	Cl	BMB	0.006	0.082	0.20		
3	3.61	PO4-P	BMB	0.004	0.027	0.94		



Peak Integration Report

Sample Name:		CCV 191024			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 10:28			Run Time:		5.10	

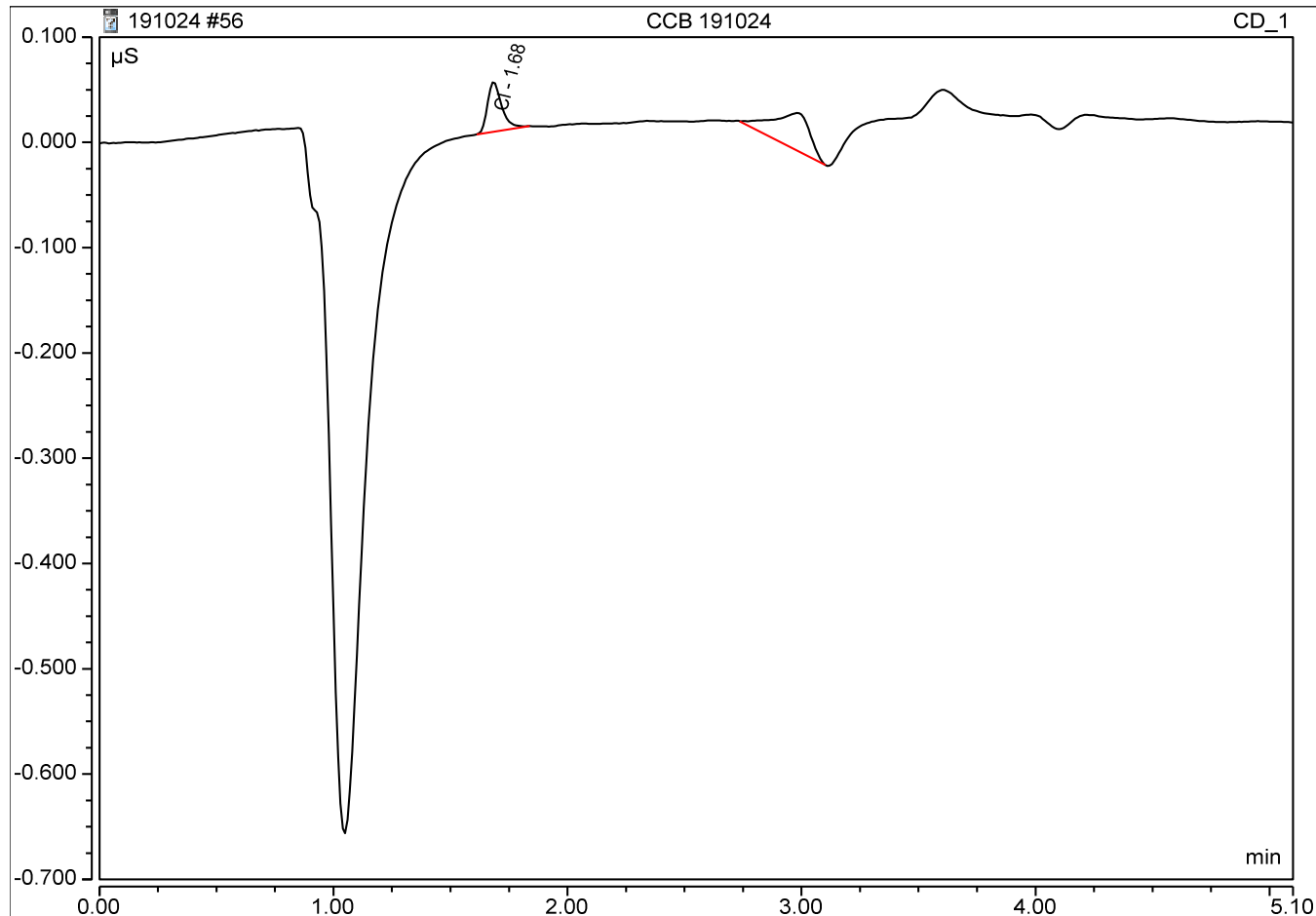
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.22	F	BMB	0.627	6.812	5.25	5	105.0%
2	1.69	Cl	BMB*	2.399	36.015	22.78	25	91.1%
3	2.00	NO2-N	bBMB*	0.480	5.693	2.81	3.04	92.4%
4	2.34	BR	BMB	0.404	4.967	11.29	12.5	90.3%
5	2.61	NO3-N	BMB	1.054	11.167	4.78	5	95.6%
6	3.59	PO4-P	BMB	0.523	3.341	8.04	10	80.4%
7	4.10	SO4	BMB	1.615	10.576	23.97	25	95.9%



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 10:36	Run Time:	5.10

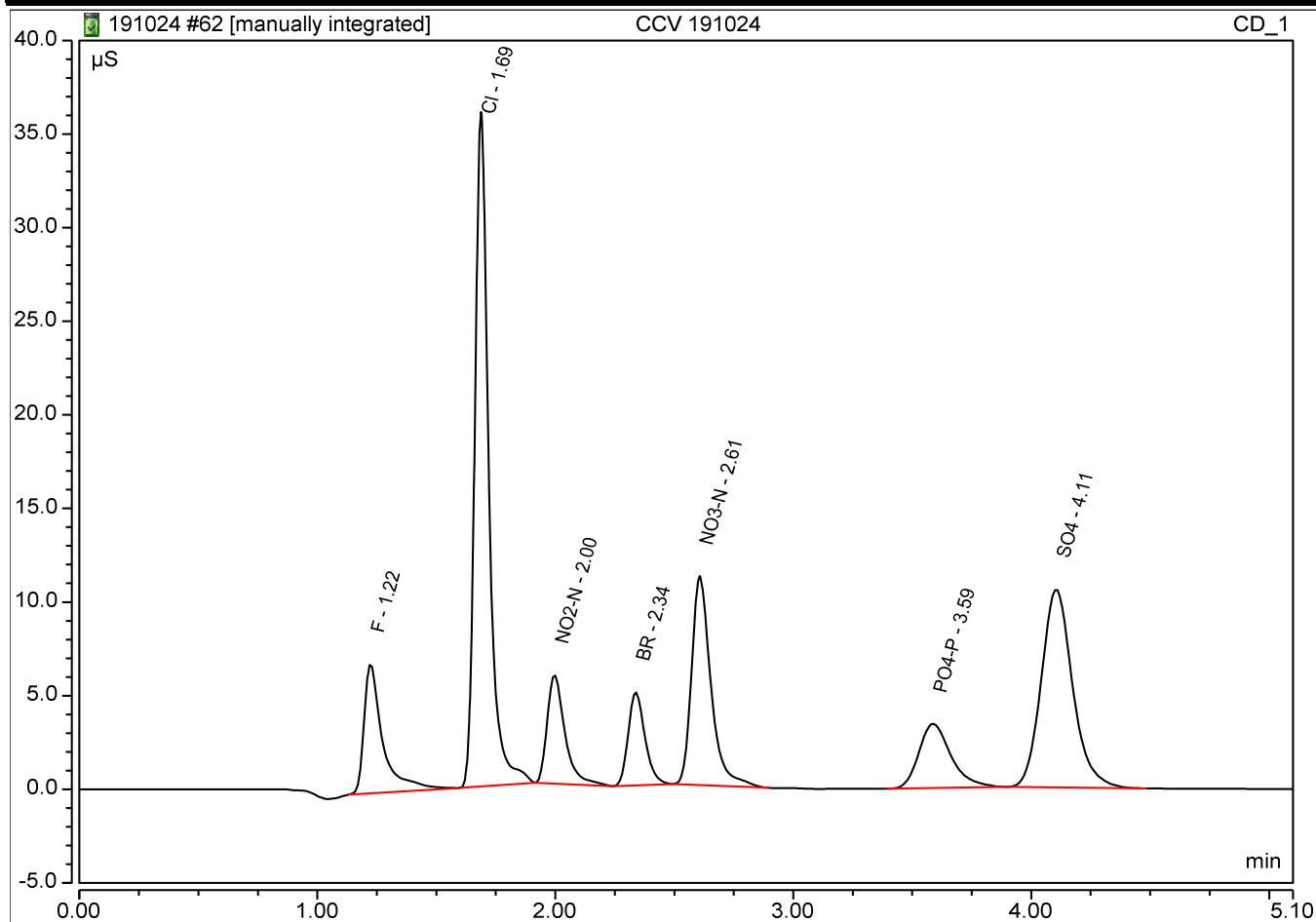
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
1	1.68	Cl	BMB	0.003	0.047	0.18		



Peak Integration Report

Sample Name:		CCV 191024			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 11:21			Run Time:		5.10	

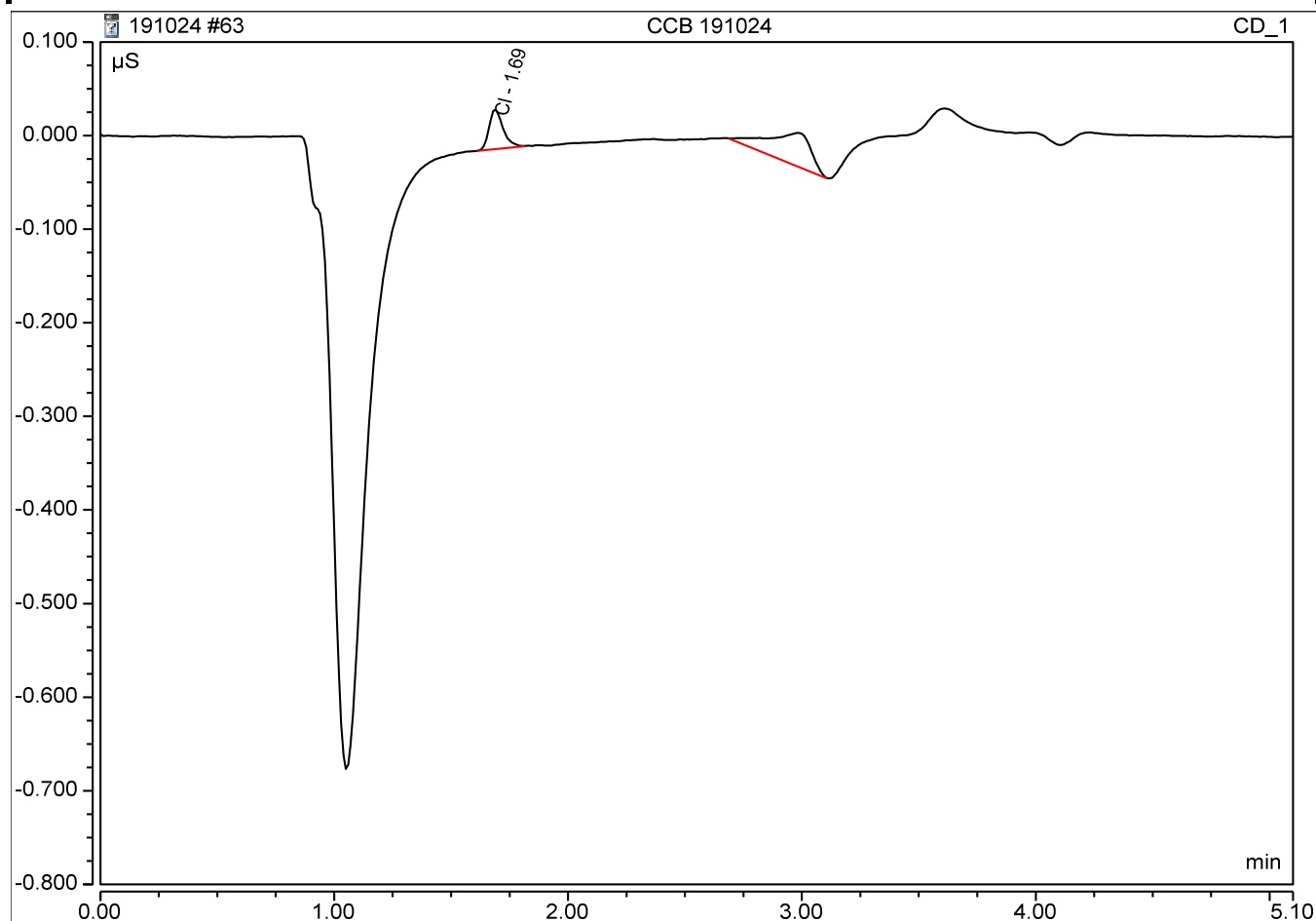
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.22	F	BMB	0.632	6.911	5.29	5	105.8%
2	1.69	Cl	BMB*	2.426	36.016	23.04	25	92.1%
3	2.00	NO2-N	bBMB*	0.504	5.808	2.95	3.04	97.1%
4	2.34	BR	BMB	0.406	4.978	11.34	12.5	90.7%
5	2.61	NO3-N	BMB	1.052	11.156	4.76	5	95.3%
6	3.59	PO4-P	BMB	0.539	3.435	8.25	10	82.5%
7	4.11	SO4	BMB	1.619	10.590	24.03	25	96.1%



Peak Integration Report

Sample Name:	CCB 191024	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 11:28	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount (mg/L)	Spike Level (mg/L)	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	0.003	0.042	0.18		

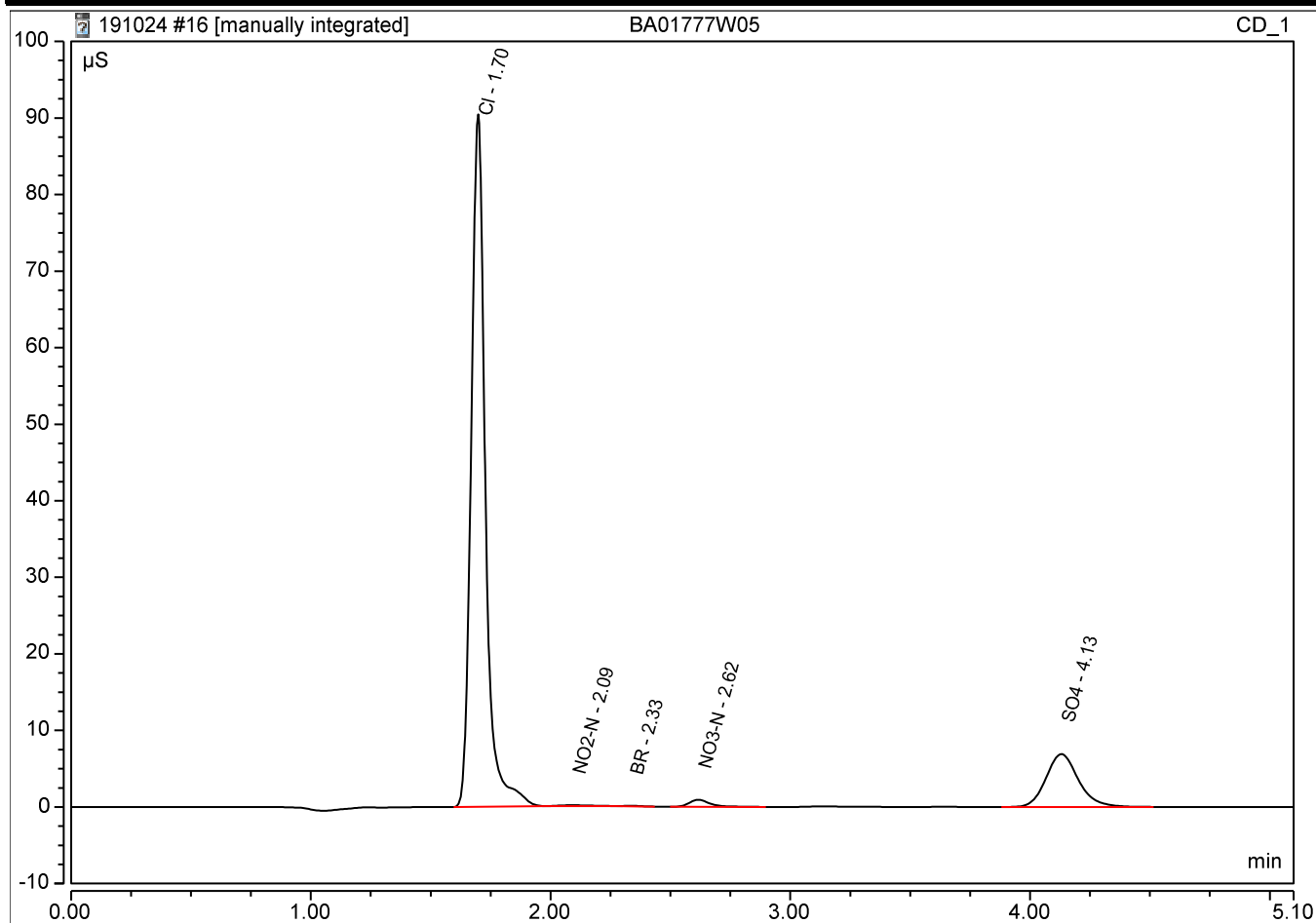


INORGANIC ANALYSIS
Raw Data

Peak Integration Report

Sample Name:		BA01777W05			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 19:37			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	6.186	90.459	58.50		
2	2.09	NO2-N	bMB*	0.016	0.105	0.10		
3	2.33	BR	BMB	0.004	0.059	0.15		
4	2.62	NO3-N	BMB	0.092	0.920	0.43		
5	4.13	SO4	BMB	1.083	6.906	16.09		

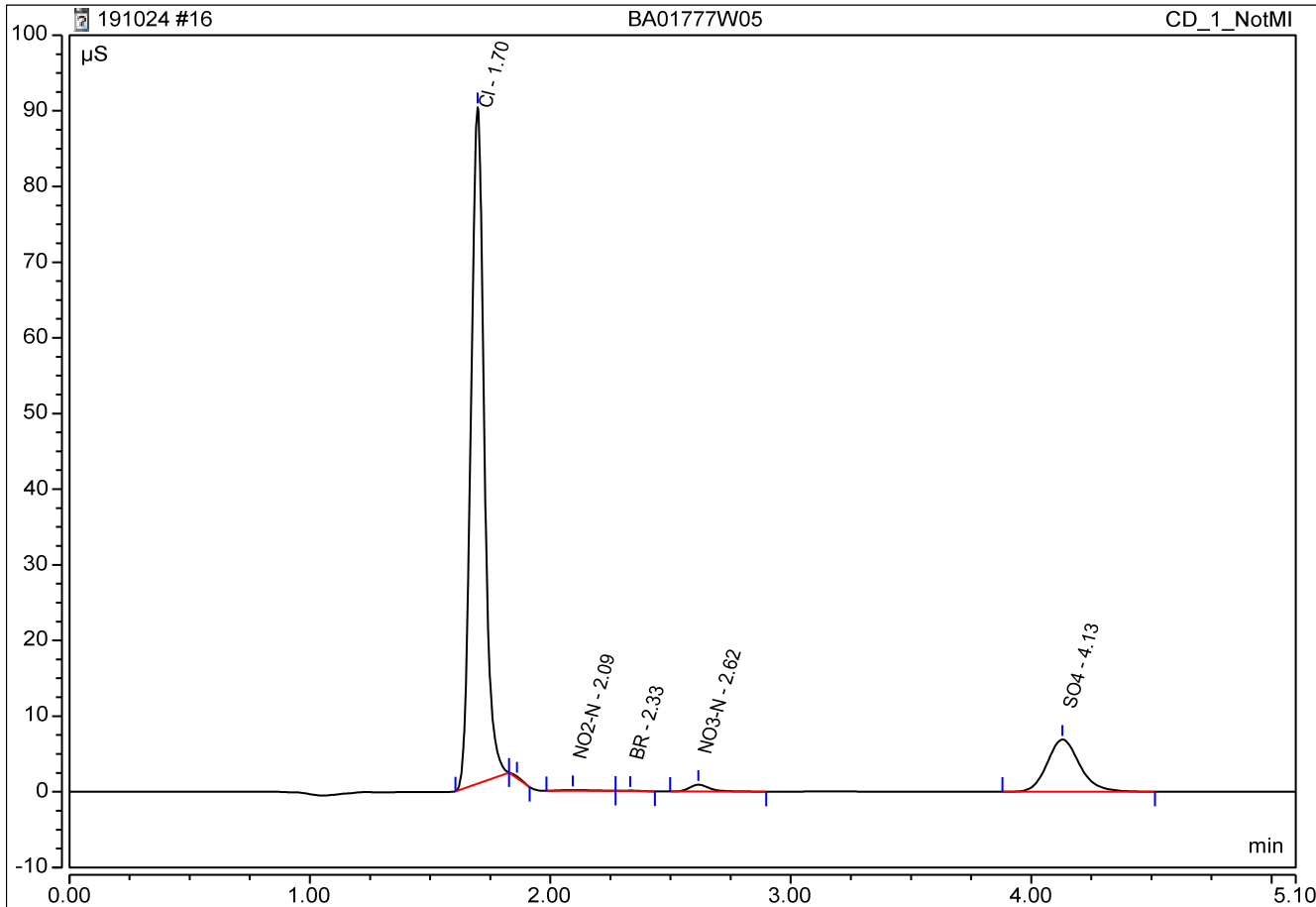


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01777W05	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:37	Run Time:	5.10

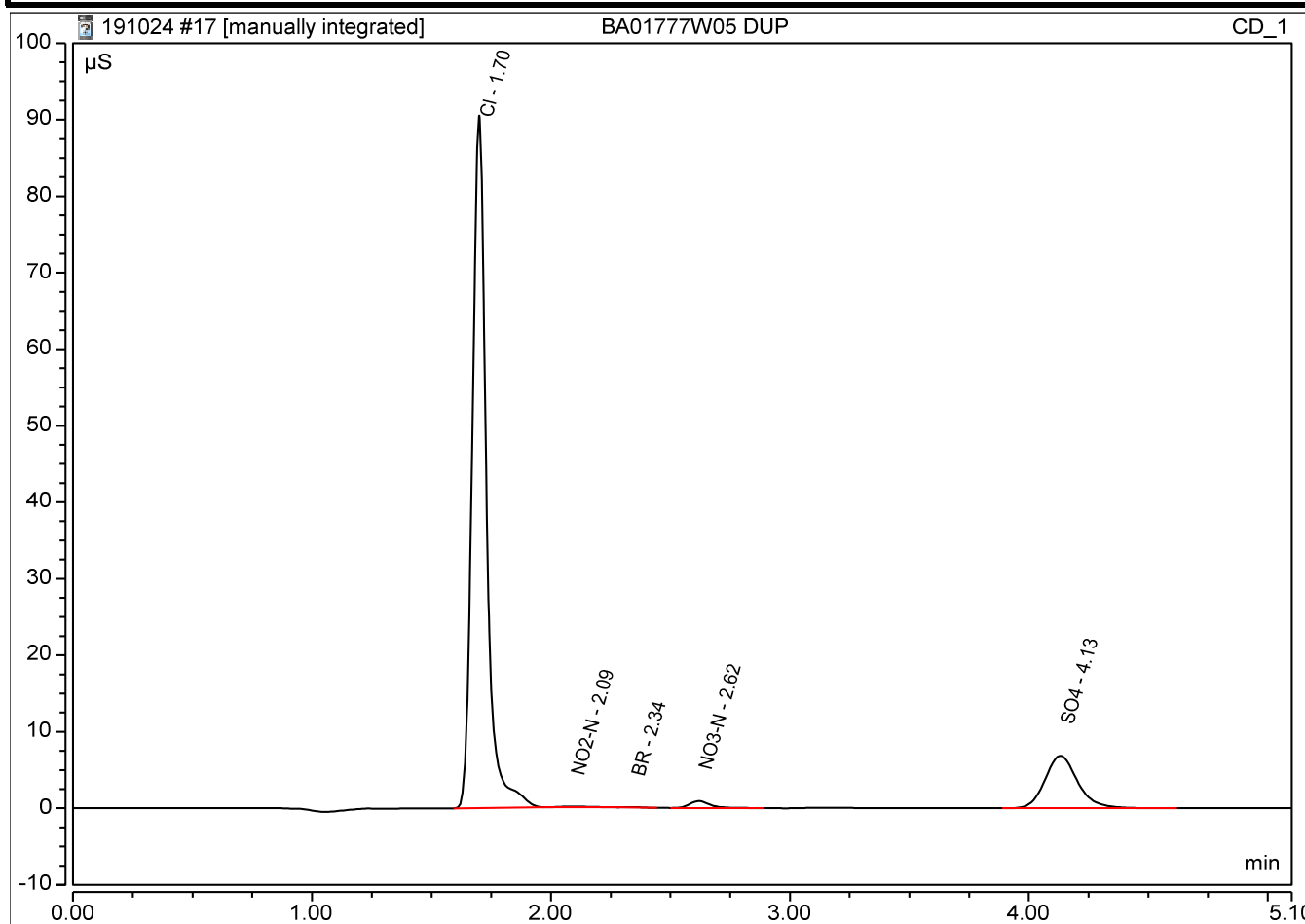
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.70	Cl	BMB*	5.755	89.397	54.4435
2	2.09	NO2-N	bMB*	0.016	0.105	0.1019
3	2.33	BR	BMB	0.004	0.059	0.1541
4	2.62	NO3-N	BMB	0.092	0.920	0.4331
5	4.13	SO4	BMB	1.083	6.906	16.0922



Peak Integration Report

Sample Name:		BA01777W05 DUP			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 19:45			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	6.190	90.503	58.54		
2	2.09	NO2-N	bMB*	0.016	0.102	0.10		
3	2.34	BR	BMB	0.005	0.063	0.16		
4	2.62	NO3-N	BMB	0.091	0.919	0.43		
5	4.13	SO4	BMB	1.078	6.860	16.02		

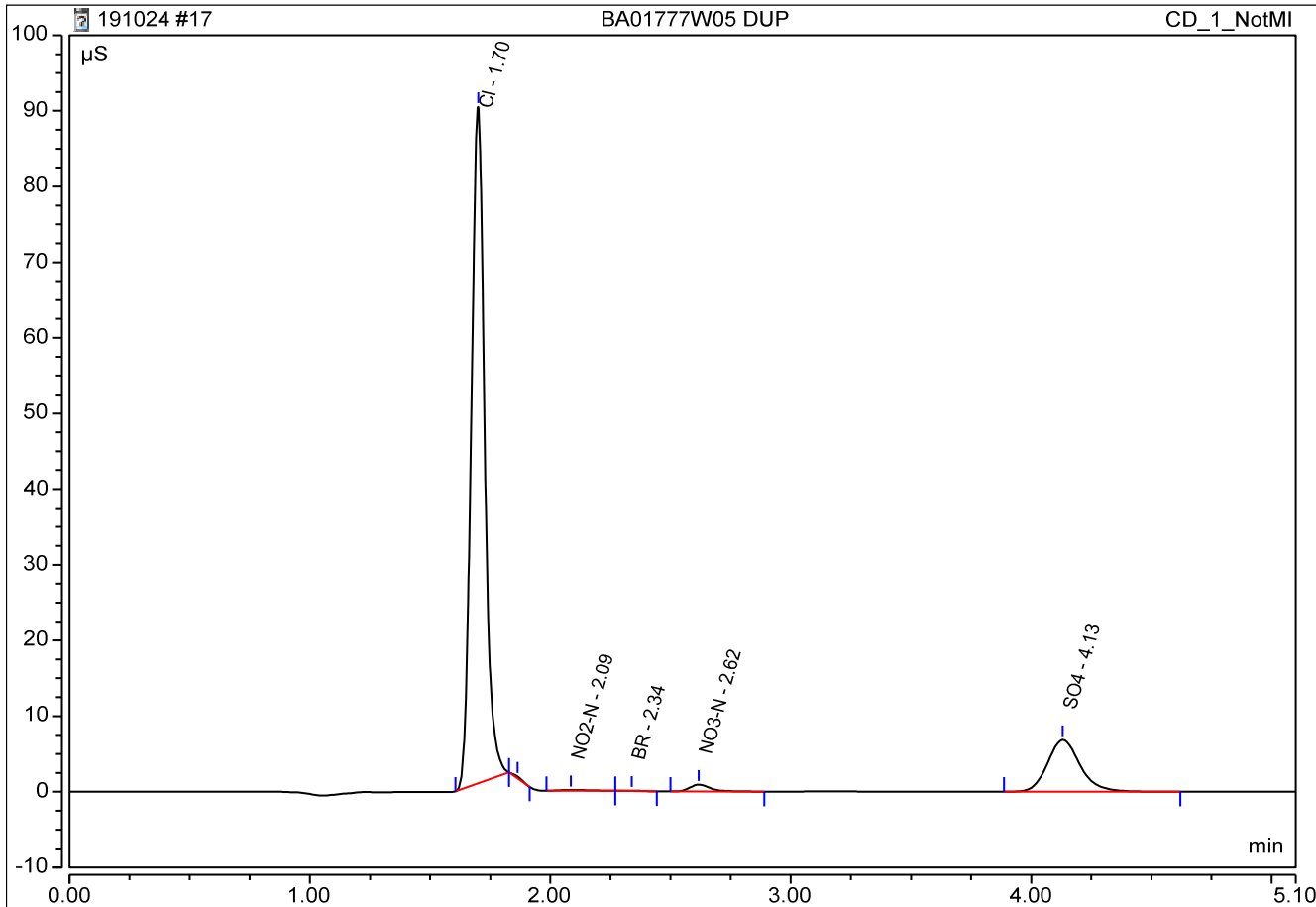


Cl MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01777W05 DUP	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:45	Run Time:	5.10

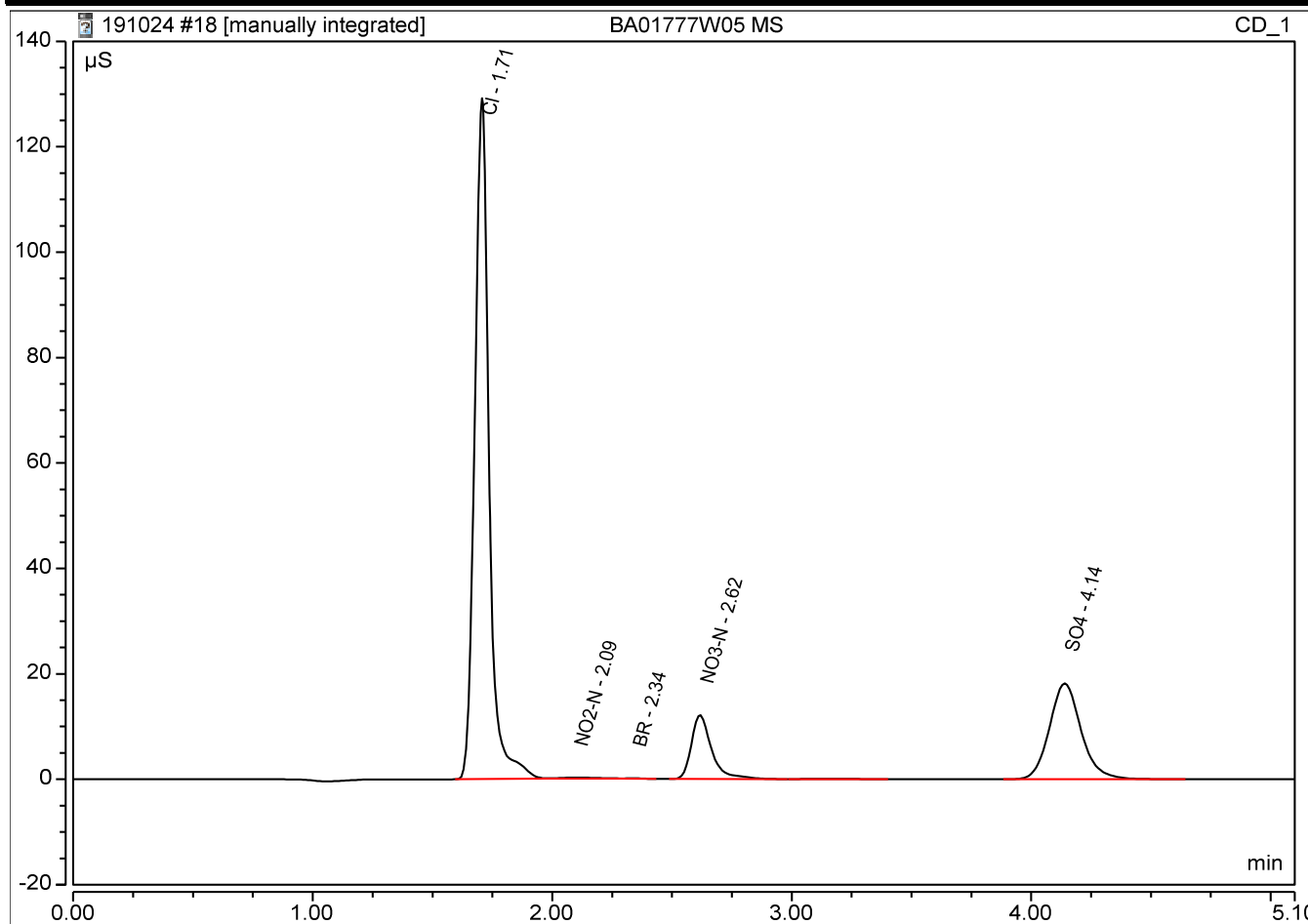
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.70	Cl	BMB*	5.756	89.420	54.4464
2	2.09	NO2-N	bMB*	0.016	0.102	0.1015
3	2.34	BR	BMB	0.005	0.063	0.1600
4	2.62	NO3-N	BMB	0.091	0.919	0.4312
5	4.13	SO4	BMB	1.078	6.860	16.0207



Peak Integration Report

Sample Name:		BA01777W05 MS			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 19:52			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.71	Cl	BMB*	8.936	129.130	84.46		
2	2.09	NO2-N	bMB*	0.025	0.166	0.15		
3	2.34	BR	BMB	0.004	0.053	0.14		
4	2.62	NO3-N	BMB	1.186	12.161	5.37		
6	4.14	SO4	BMB	2.777	18.176	41.17		

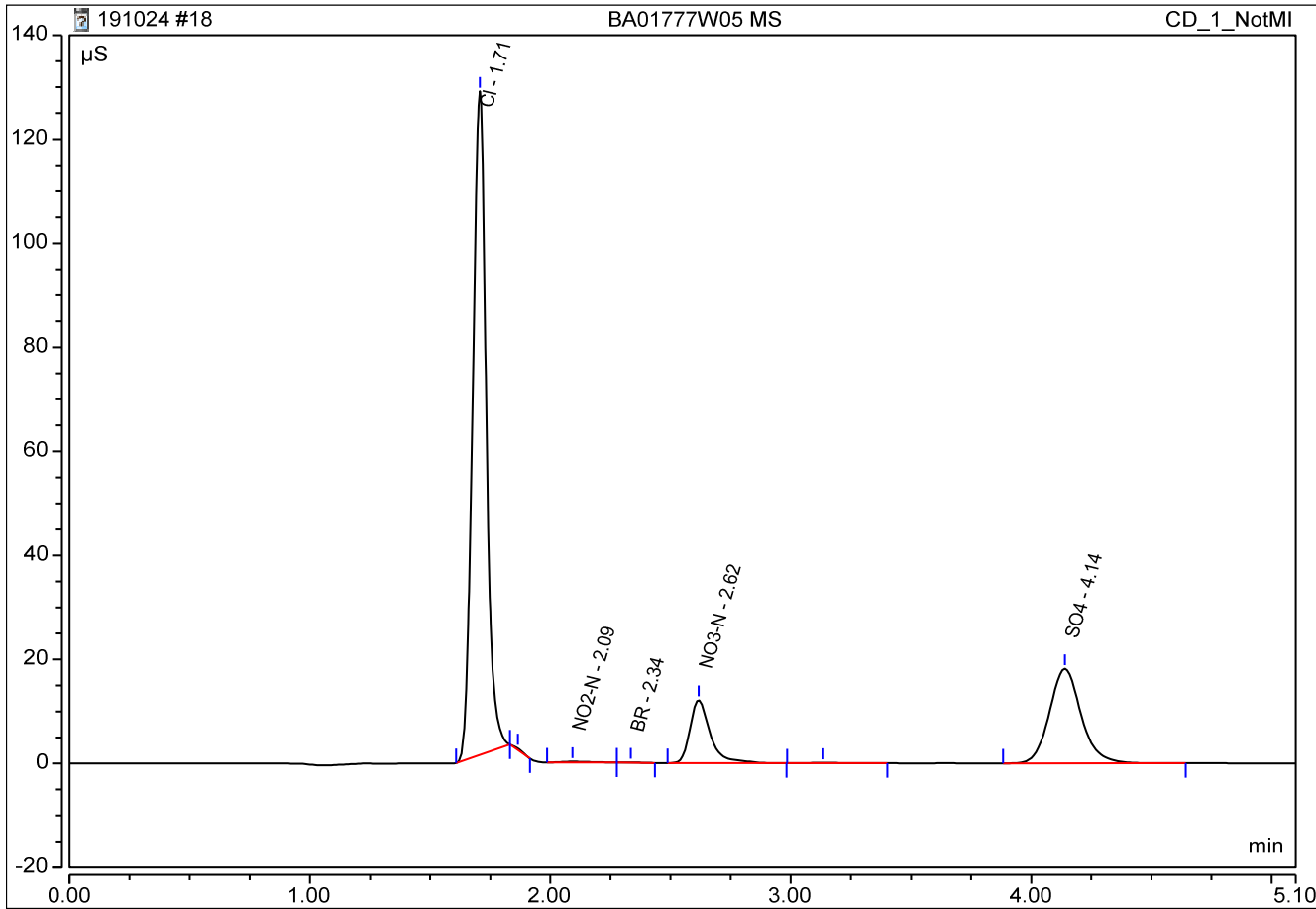


Cl MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01777W05 MS	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 19:52	Run Time:	5.10

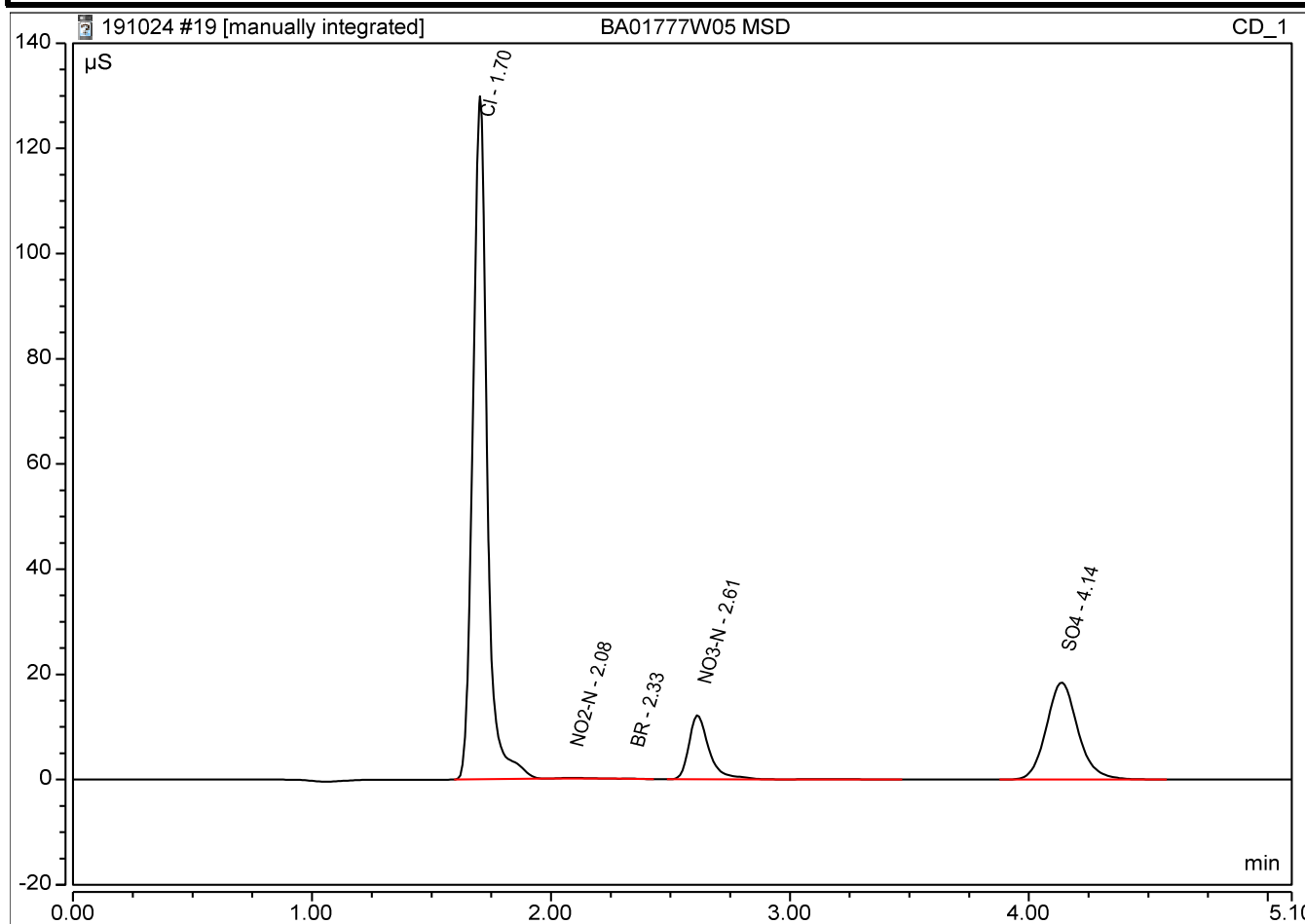
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.71	Cl	BMB*	8.319	127.531	78.6340
2	2.09	NO2-N	bMB*	0.025	0.166	0.1514
3	2.34	BR	BMB	0.004	0.053	0.1403
4	2.62	NO3-N	BMB	1.186	12.161	5.3724
6	4.14	SO4	BMB	2.777	18.176	41.1661



Peak Integration Report

Sample Name:		BA01777W05 MSD			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 20:00			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	8.985	129.845	84.91		
2	2.08	NO2-N	bMB*	0.022	0.145	0.13		
3	2.33	BR	BMB	0.004	0.053	0.14		
4	2.61	NO3-N	BMB	1.191	12.206	5.39		
6	4.14	SO4	BMB	2.819	18.470	41.79		

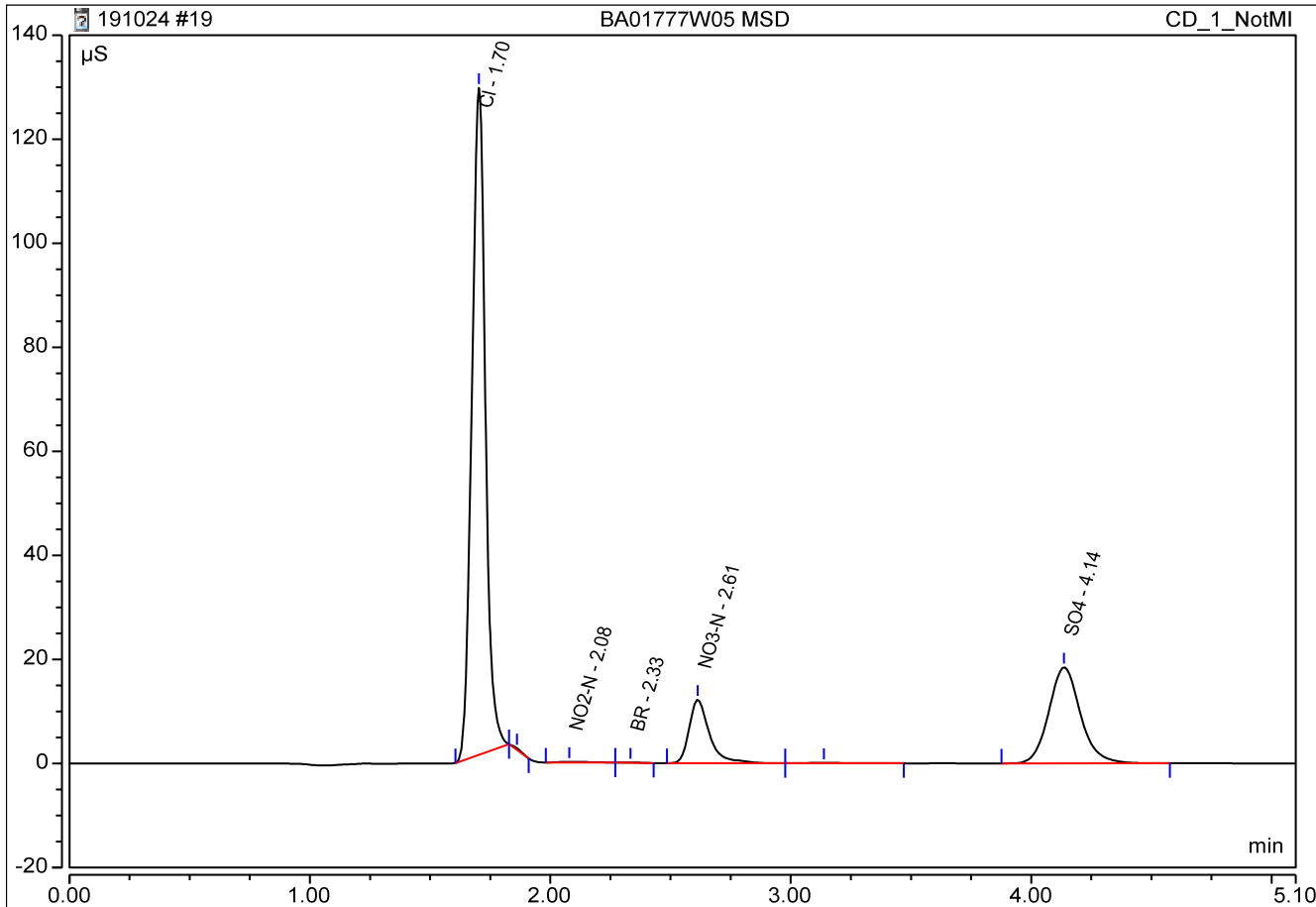


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01777W05 MSD	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:00	Run Time:	5.10

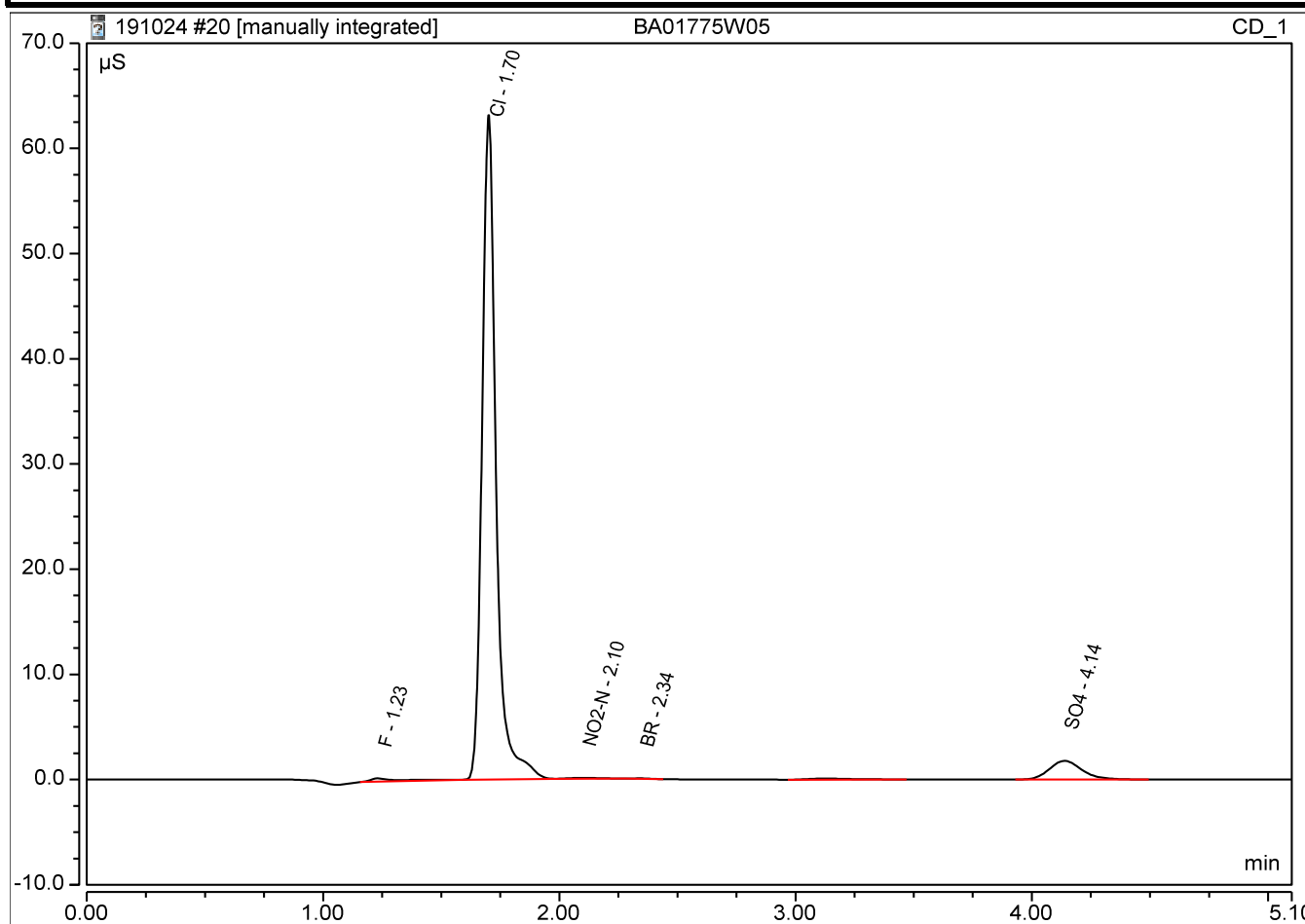
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.70	Cl	BMB*	8.364	128.224	79.0521
2	2.08	NO2-N	bMB*	0.022	0.145	0.1348
3	2.33	BR	BMB	0.004	0.053	0.1397
4	2.61	NO3-N	BMB	1.191	12.206	5.3921
6	4.14	SO4	BMB	2.819	18.470	41.7898



Peak Integration Report

Sample Name:	BA01775W05	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:07	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB*	0.045	0.315	0.48		
2	1.70	Cl	bMB*	4.336	63.142	41.06		
3	2.10	NO2-N	bMB*	0.013	0.082	0.08		
4	2.34	BR	BMB	0.004	0.050	0.13		
6	4.14	SO4	BMB	0.284	1.778	4.27		

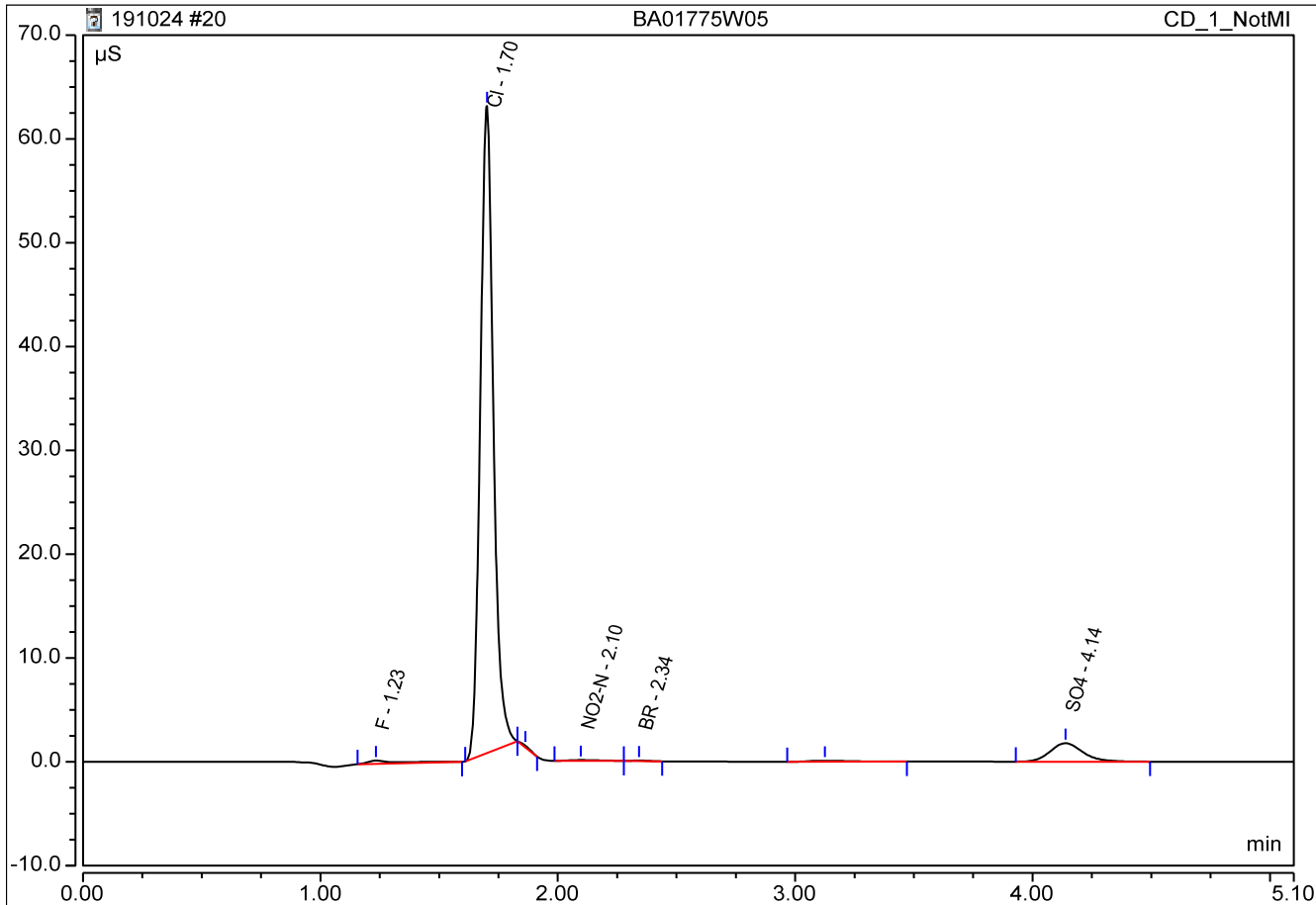


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01775W05	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:07	Run Time:	5.10

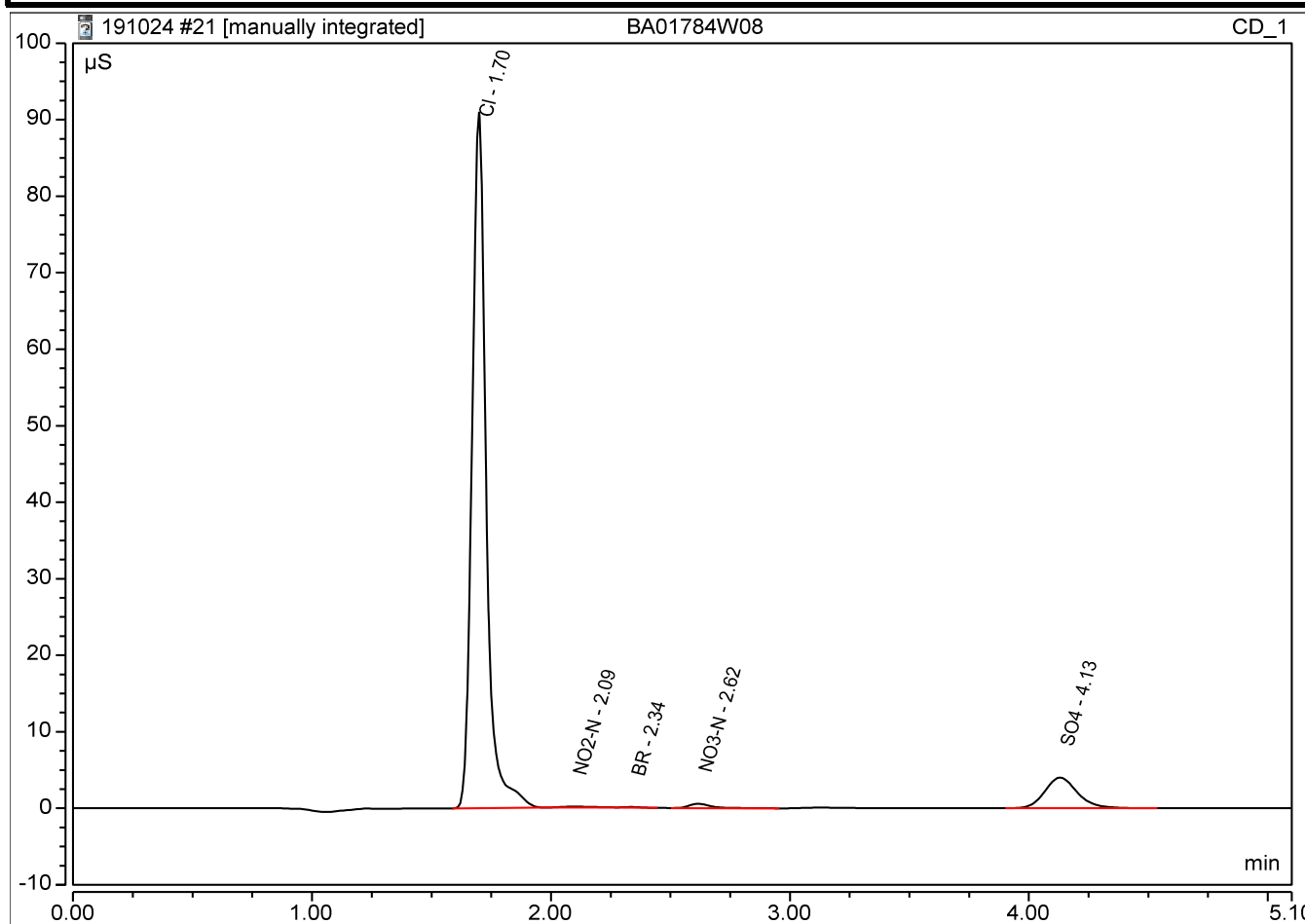
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMb*	0.045	0.315	0.0816
2	1.70	Cl	bMb*	4.004	62.314	37.9267
3	2.10	NO2-N	bMB*	0.013	0.082	0.0826
4	2.34	BR	BMB	0.004	0.050	0.1339
6	4.14	SO4	BMB	0.284	1.778	4.2724



Peak Integration Report

Sample Name:		BA01784W08			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 20:15			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.70	Cl	BMB*	6.222	90.927	58.85		
2	2.09	NO2-N	bMB*	0.017	0.108	0.11		
3	2.34	BR	BMB	0.005	0.072	0.18		
4	2.62	NO3-N	BMB	0.061	0.583	0.29		
5	4.13	SO4	BMB	0.633	4.010	9.44		

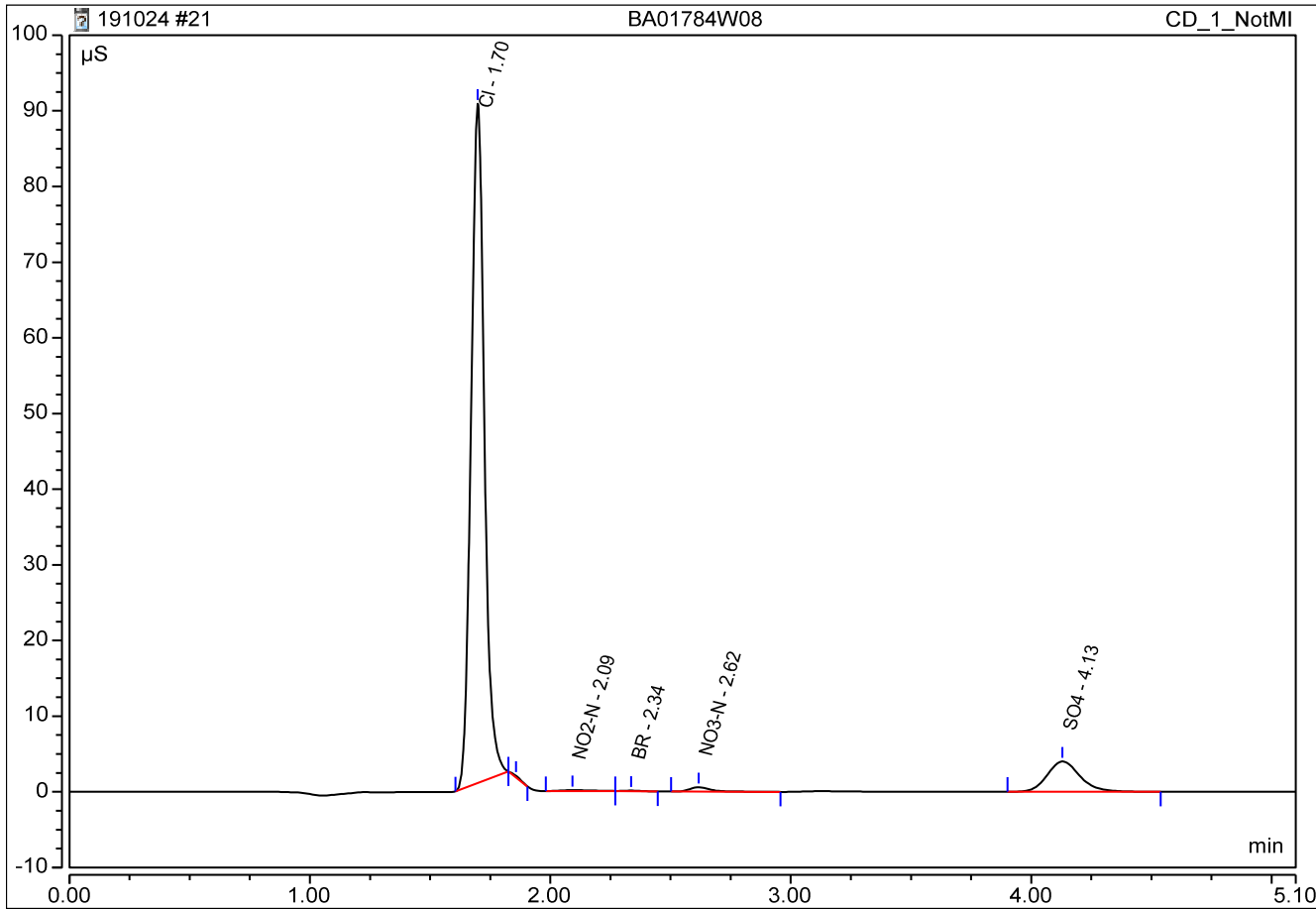


Cl MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01784W08	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:15	Run Time:	5.10

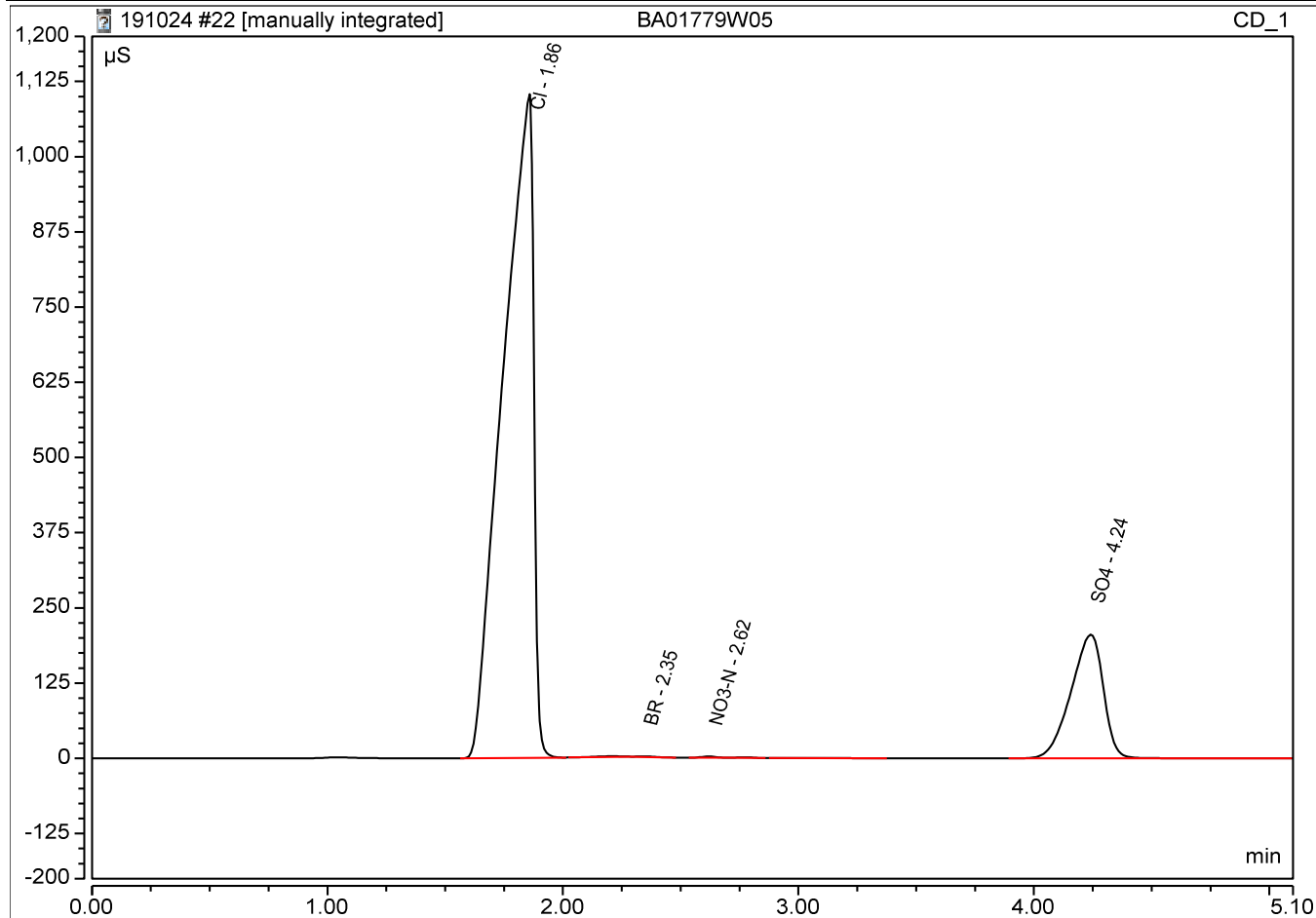
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.70	Cl	BMB*	5.773	89.776	54.6106
2	2.09	NO2-N	bMB*	0.017	0.108	0.1056
3	2.34	BR	BMB	0.005	0.072	0.1818
4	2.62	NO3-N	BMB	0.061	0.583	0.2935
5	4.13	SO4	BMB	0.633	4.010	9.4388



Peak Integration Report

Sample Name:	BA01779W05	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:22	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.86	Cl	BMB*	165.297	1103.202	1559.58		
3	2.35	BR	BMB	0.073	0.991	2.05		
4	2.62	NO3-N	BMB	0.160	2.262	0.74		
7	4.24	SO4	BMB	32.778	205.842	485.24		

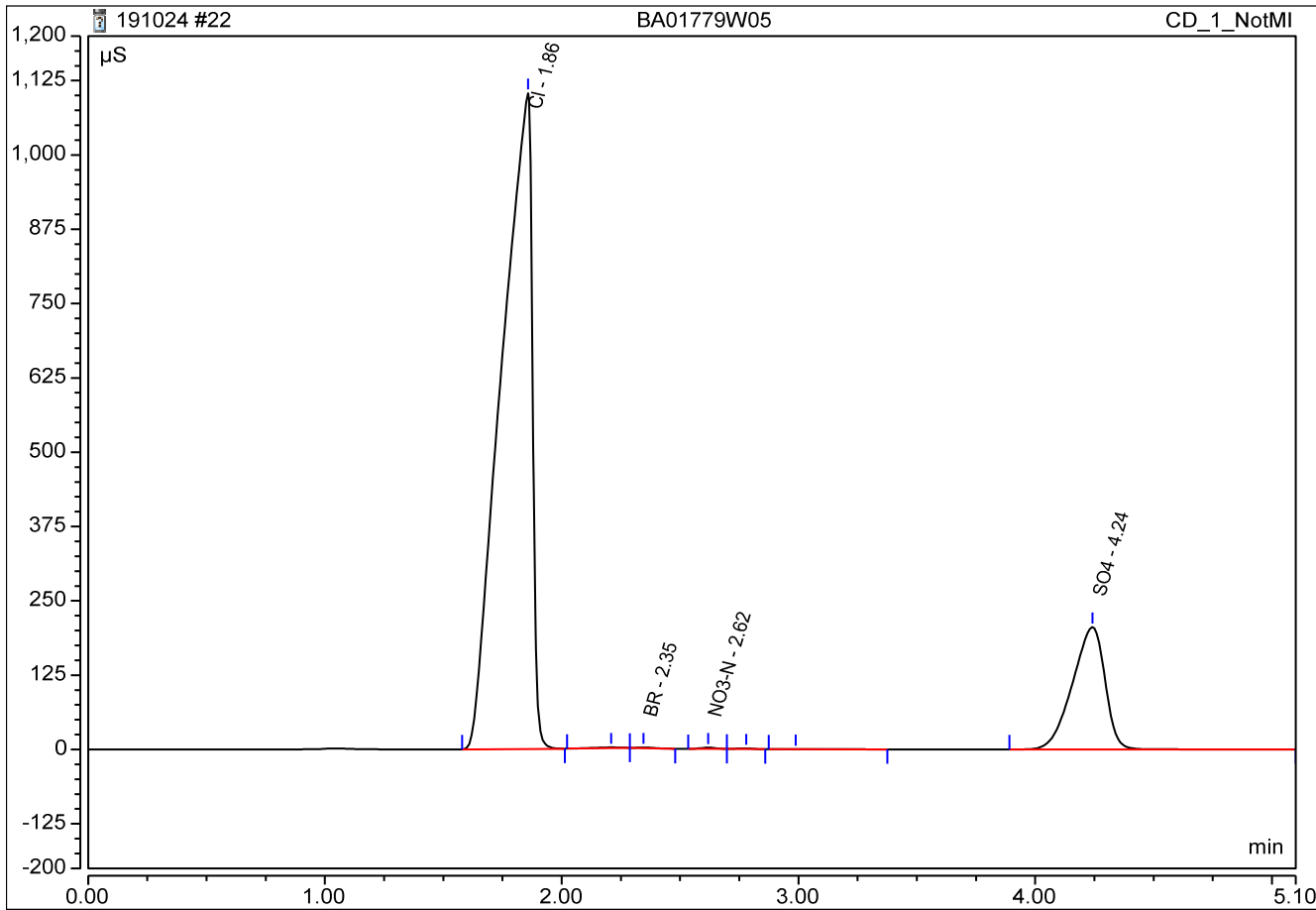


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01779W05	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 20:22	Run Time:	5.10

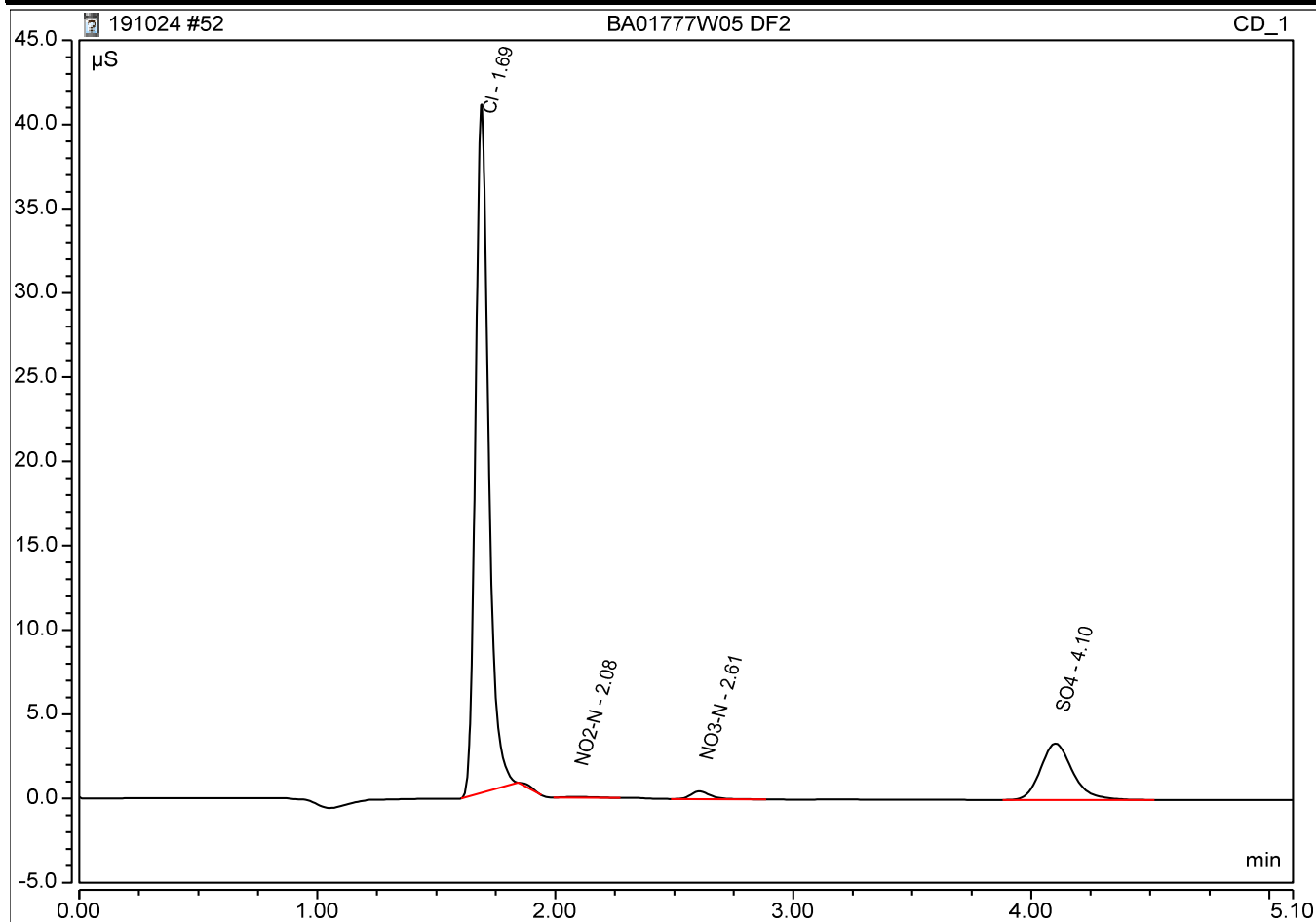
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Ammount mg/L
1	1.86	Cl	BMB*	165.272	1103.162	1559.3007
3	2.35	BR	BMB	0.073	0.991	2.0496
4	2.62	NO3-N	BMB	0.160	2.262	0.7433
7	4.24	SO4	BMB	32.778	205.842	485.2415



Peak Integration Report

Sample Name:	BA01777W05 DF2	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 10:06	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.69	Cl	BMB	2.614	40.847	49.63		
3	2.08	NO ₂ -N	BMB	0.008	0.047	0.10		
4	2.61	NO ₃ -N	BMB	0.045	0.464	0.44		
5	4.10	SO ₄	BMB	0.525	3.354	15.66		

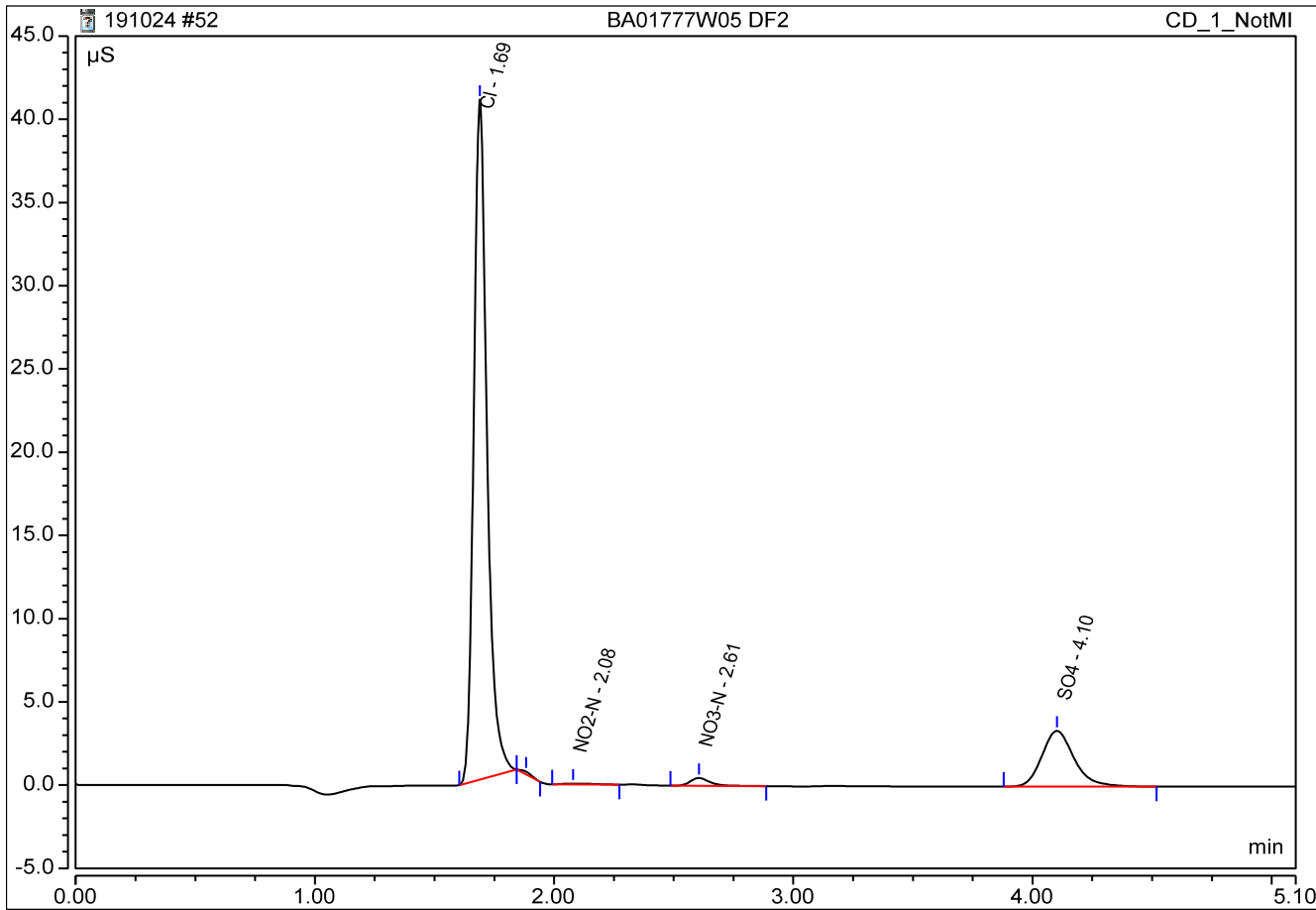


Cl MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	BA01777W05 DF2	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 10:06	Run Time:	5.10

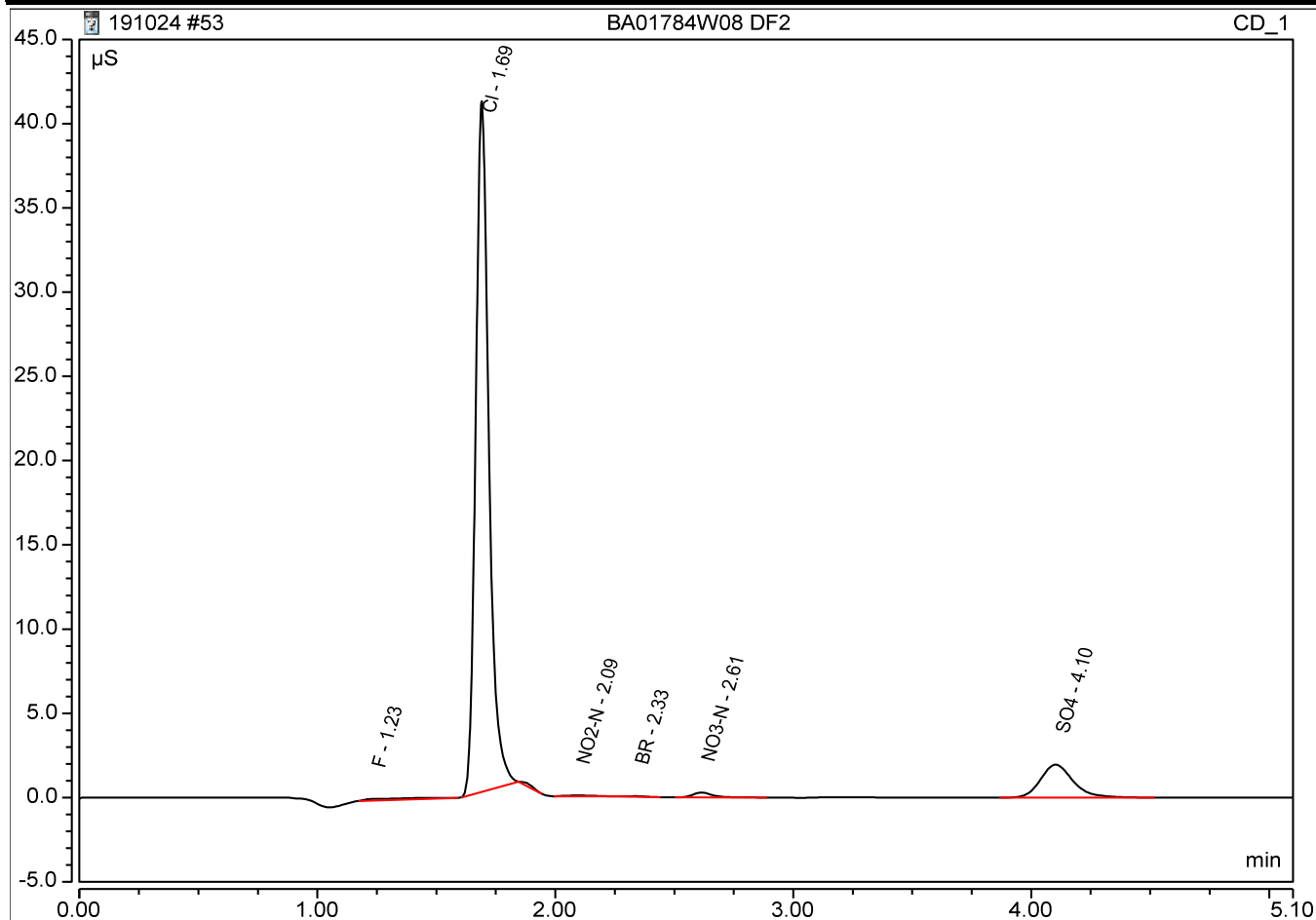
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.69	Cl	BMB	2.614	40.847	24.8129
3	2.08	NO ₂ -N	BMB	0.008	0.047	0.0511
4	2.61	NO ₃ -N	BMB	0.045	0.464	0.2222
5	4.10	SO ₄	BMB	0.525	3.354	7.8309



Peak Integration Report

Sample Name:	BA01784W08 DF2	Inj. Vol.:	25uL
Injection Type:	Unknown	Dilution Factor:	2.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	25-Oct-2019 / 10:13	Run Time:	5.10

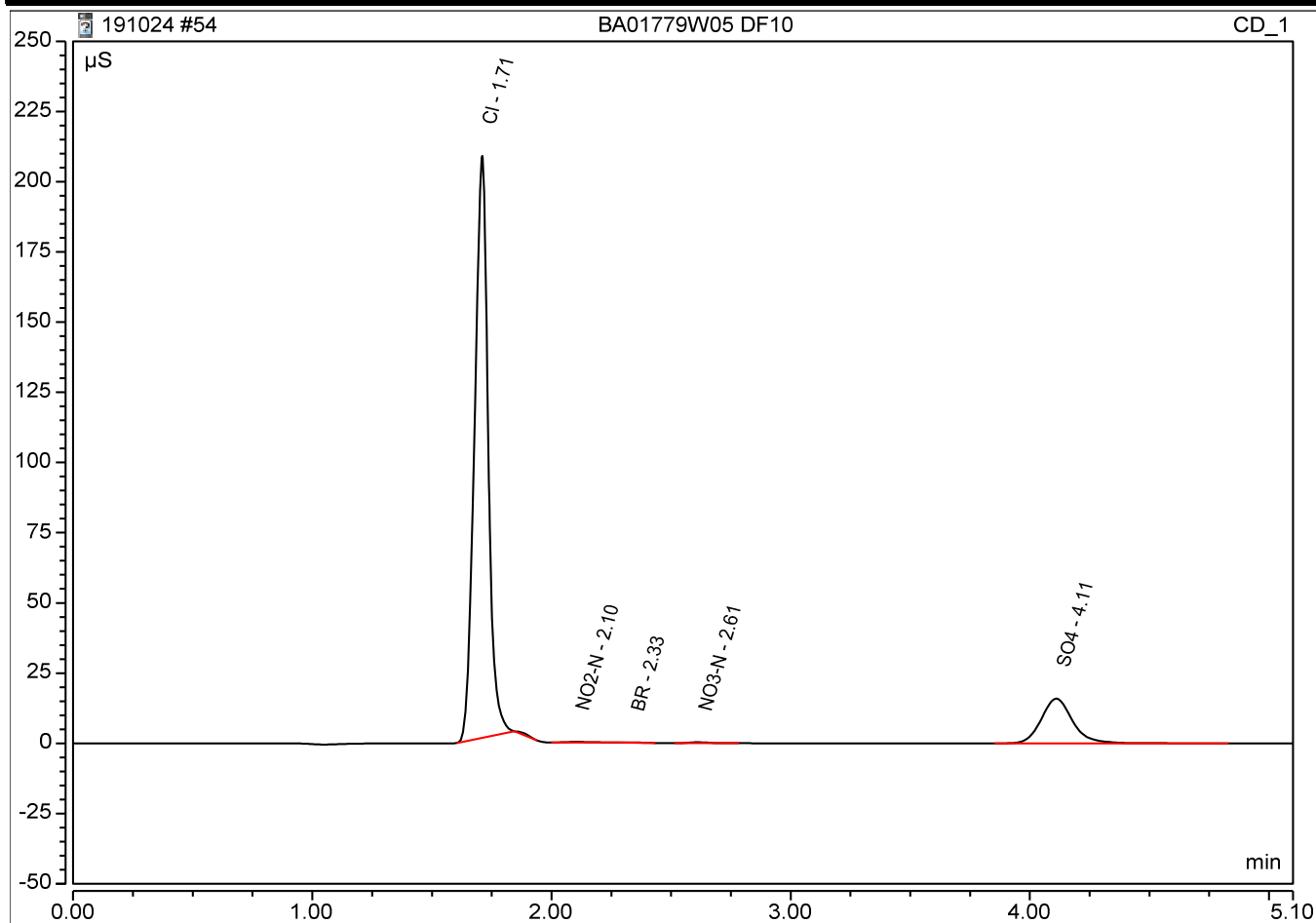
No.	Time (min)	Peak Name	Peak Type	Area ($\mu\text{S}\cdot\text{min}$)	Height (μS)	Amount	Spike Level	Recovery
	min			$\mu\text{S}\cdot\text{min}$	μS	mg/L	mg/L	
1	1.23	F	BMB	0.023	0.092	0.60		
2	1.69	Cl	BMB	2.625	40.986	49.82		
4	2.09	NO2-N	BMB	0.008	0.051	0.10		
5	2.33	BR	BMB	0.003	0.036	0.21		
6	2.61	NO3-N	BMB	0.027	0.284	0.29		
7	4.10	SO4	BMB	0.311	1.954	9.33		



Peak Integration Report

Sample Name:		BA01779W05 DF10			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		10.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 10:21			Run Time:		5.10	

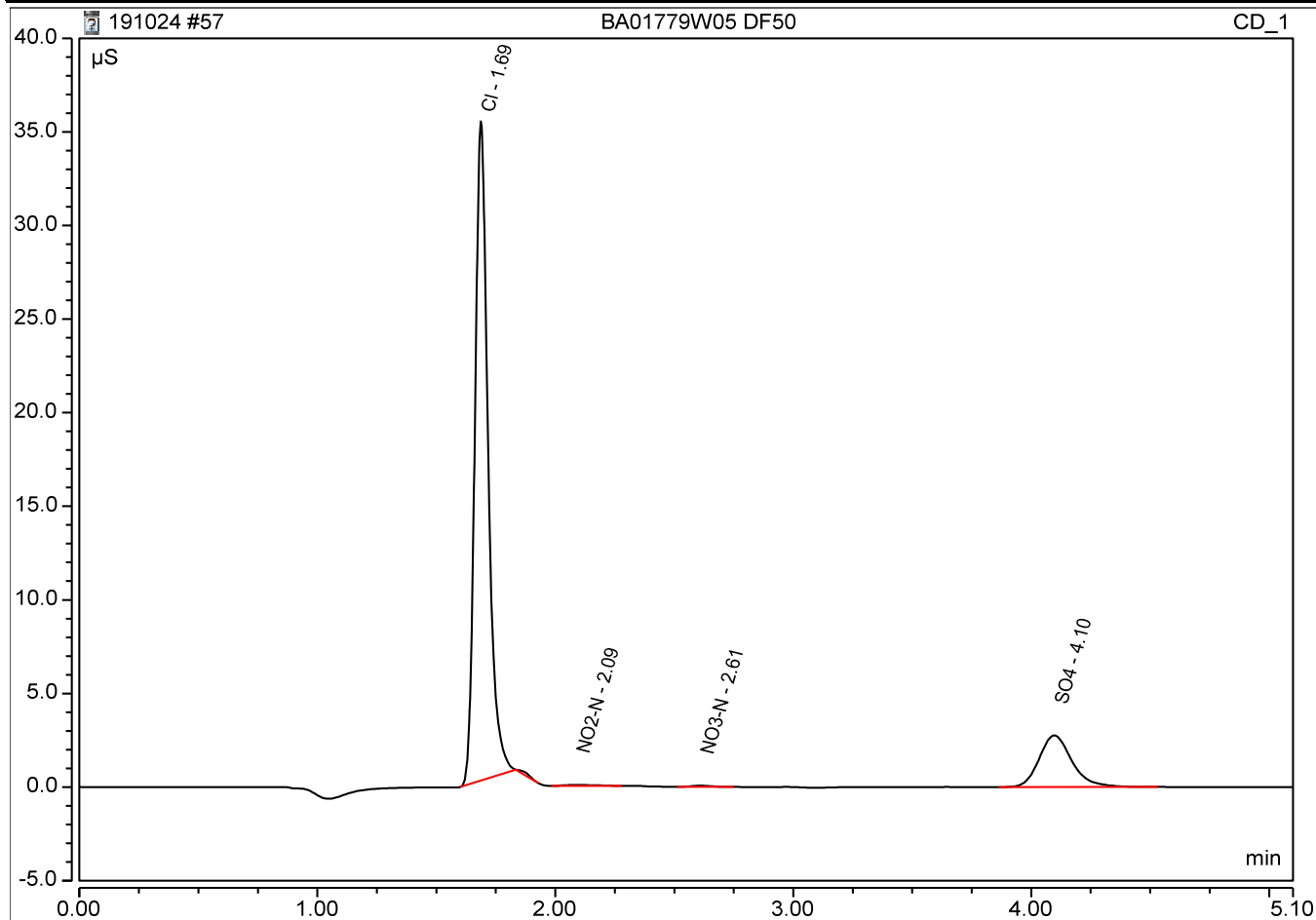
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.71	Cl	BMB	13.674	207.224	1291.55		
3	2.10	NO2-N	BMB	0.031	0.211	1.90		
4	2.33	BR	BMB	0.007	0.103	2.38		
5	2.61	NO3-N	BMB	0.030	0.334	1.55		
6	4.11	SO4	BMB	2.412	15.928	357.69		



Peak Integration Report

Sample Name:		BA01779W05 DF50			Inj. Vol.:		25uL	
Injection Type:		Unknown			Dilution Factor:		50.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		25-Oct-2019 / 10:43			Run Time:		5.10	

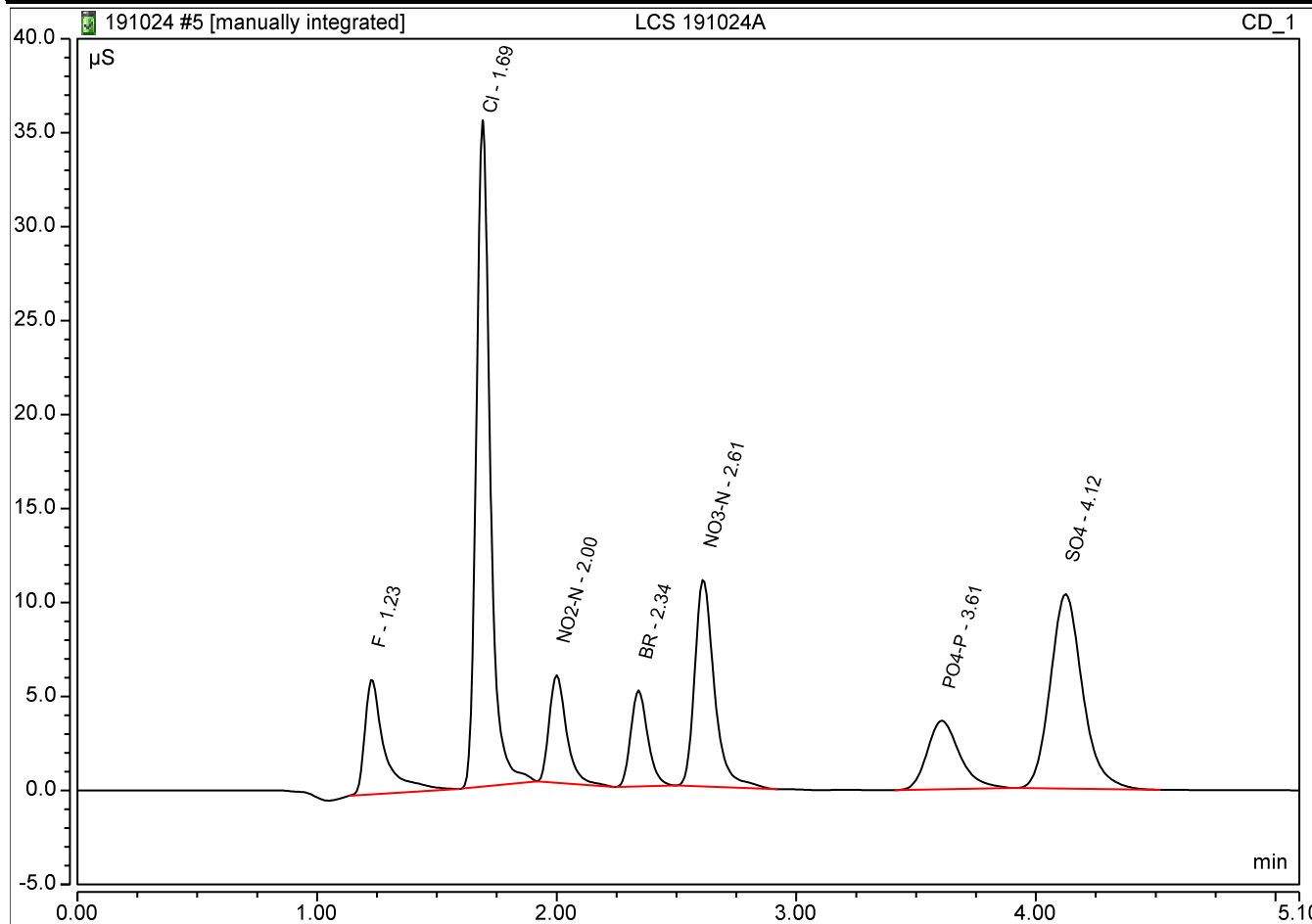
No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.69	Cl	BMB	2.247	35.211	1067.25		
3	2.09	NO2-N	BMB	0.009	0.058	3.05		
4	2.61	NO3-N	BMB	0.006	0.068	2.33		
5	4.10	SO4	BMB	0.440	2.761	328.60		



Peak Integration Report

Sample Name:		LCS 191024A			Inj. Vol.:		25uL	
Injection Type:		Check Standard			Dilution Factor:		1.00	
Program:		Anion APM 190925A			Operator:		chemist_wetlab	
Inj. Date / Time:		24-Oct-2019 / 18:15			Run Time:		5.10	

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.586	6.132	4.91	5	98.3%
2	1.69	Cl	BMB*	2.394	35.462	22.73	25	90.9%
3	2.00	NO2-N	BMB	0.483	5.721	2.83	3.04	93.0%
4	2.34	BR	BMB	0.419	5.107	11.70	12.5	93.6%
5	2.61	NO3-N	BMB	1.049	11.022	4.75	5	95.1%
6	3.61	PO4-P	BMB	0.575	3.658	8.75	10	87.5%
7	4.12	SO4	BMB	1.617	10.352	23.99	25	96.0%



CI MI4 BW 191025

Algorithm Check

y = Peak Area

x = mg/L S04

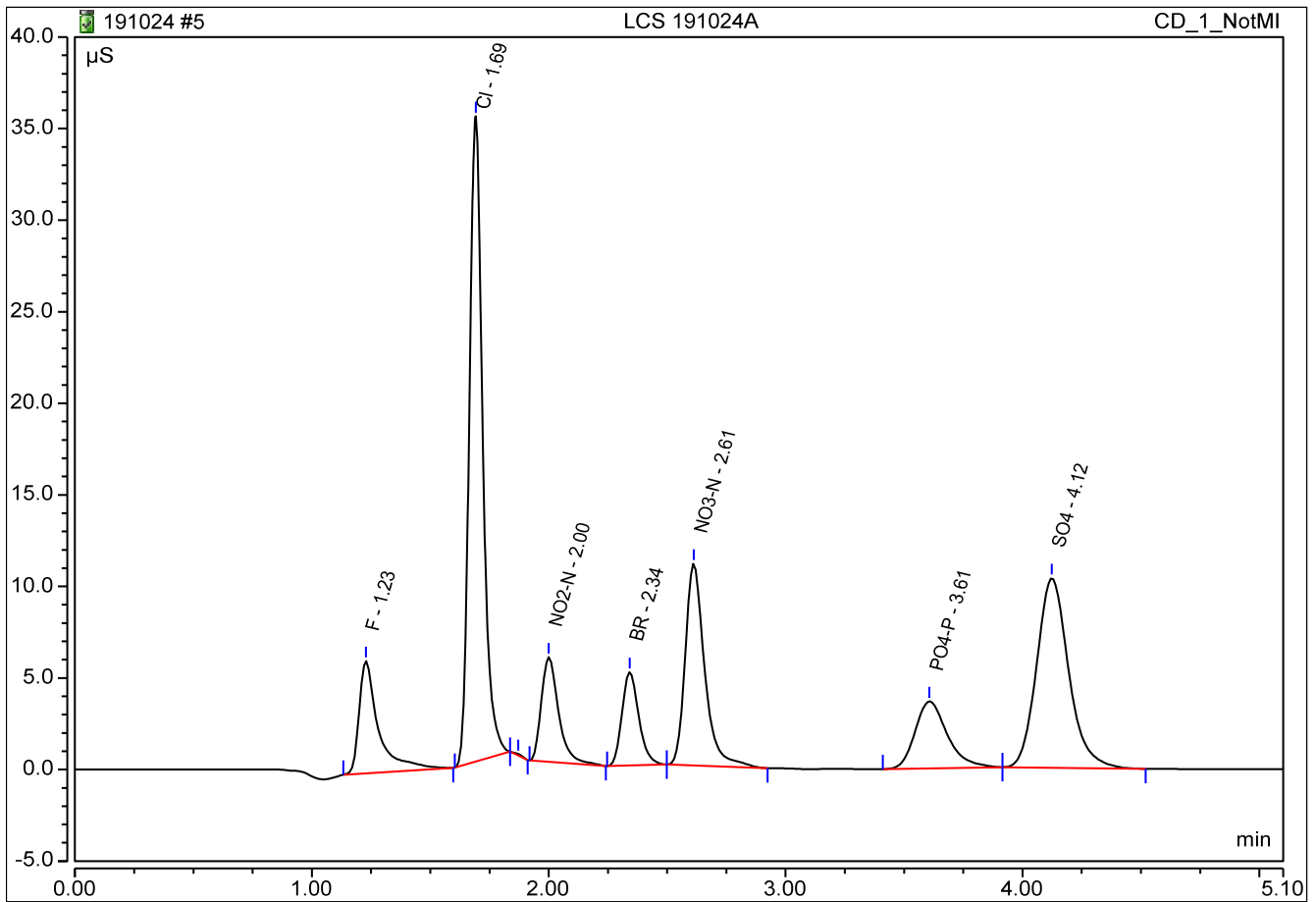
$$y = 0.0676 \quad x + \quad -0.0044$$

$$y = 1.6166 \quad \text{therefor } x =$$

Not Manipulated Peak Integration Report

Sample Name:	LCS 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:15	Run Time:	5.10

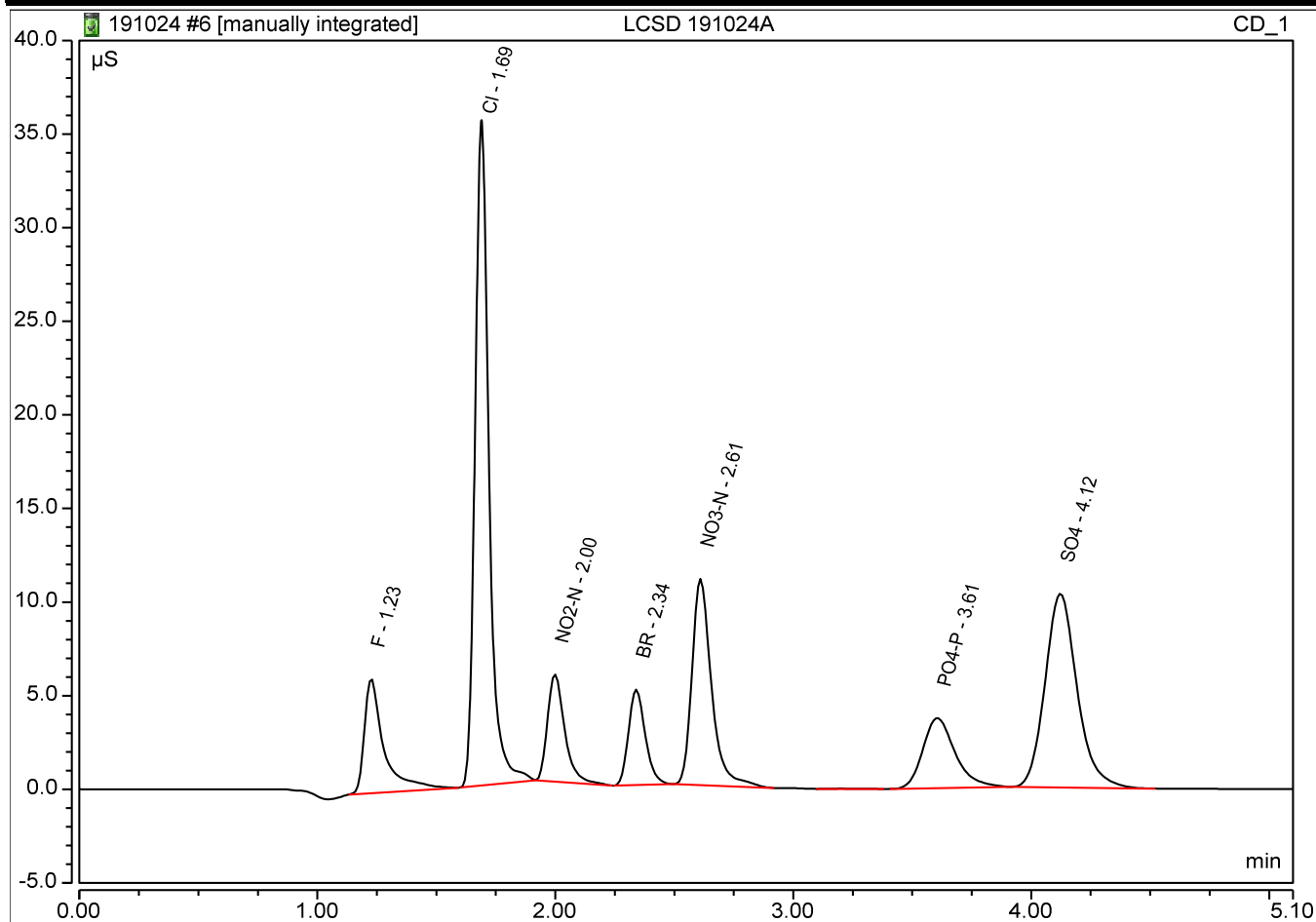
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.586	6.132	4.5933
2	1.69	Cl	BMB*	2.300	35.243	21.8466
3	2.00	NO ₂ -N	BMB	0.483	5.721	2.8271
4	2.34	BR	BMB	0.419	5.107	11.7036
5	2.61	NO ₃ -N	BMB	1.049	11.022	4.7527
6	3.61	PO ₄ -P	BMB	0.575	3.658	8.7504
7	4.12	SO ₄	BMB	1.617	10.352	23.9942



Peak Integration Report

Sample Name:	LCSD 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.00
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:22	Run Time:	5.10

No.	Time (min)	Peak Name	Peak Type	Area (μS*min)	Height (μS)	Amount	Spike Level	Recovery
	min			μS*min	μS	mg/L	mg/L	
1	1.23	F	BMB	0.583	6.117	4.89	5	97.9%
2	1.69	Cl	BMB*	2.397	35.531	22.76	25	91.0%
3	2.00	NO2-N	bMB*	0.484	5.730	2.83	3.04	93.1%
4	2.34	BR	BMB	0.419	5.111	11.71	12.5	93.6%
5	2.61	NO3-N	BMB	1.049	11.028	4.75	5	95.1%
7	3.61	PO4-P	BMB	0.588	3.739	8.92	10	89.2%
8	4.12	SO4	BMB	1.616	10.352	23.98	25	95.9%

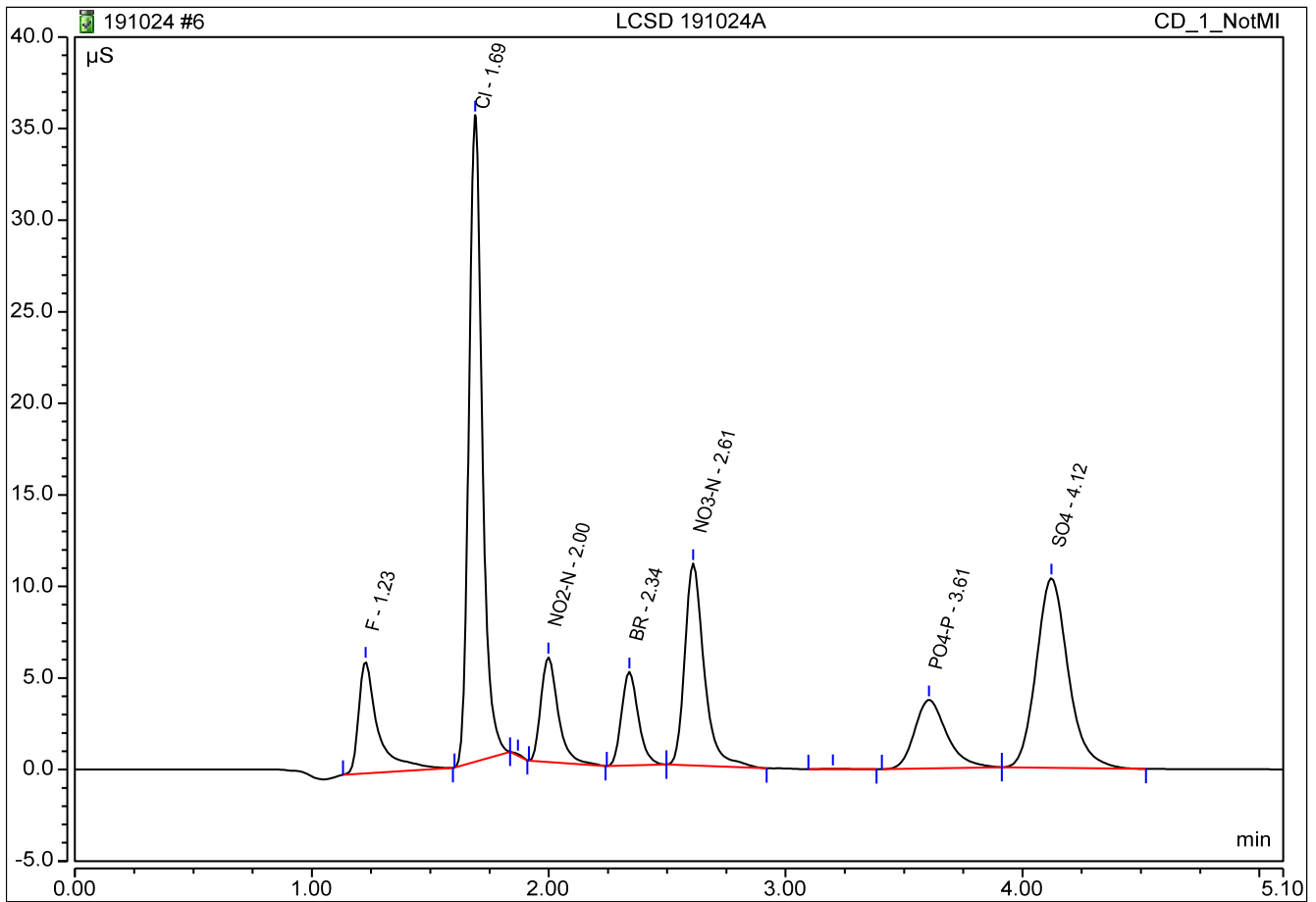


CI MI4 BW 191025

Not Manipulated Peak Integration Report

Sample Name:	LCSD 191024A	Inj. Vol.:	25uL
Injection Type:	Check Standard	Dilution Factor:	1.0000
Program:	Anion APM 190925A	Operator:	chemist_wetlab
Inj. Date / Time:	24-Oct-2019 / 18:22	Run Time:	5.10

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount mg/L
1	1.23	F	BMB	0.583	6.117	4.5725
2	1.69	Cl	BMB*	2.302	35.312	21.8667
3	2.00	NO ₂ -N	bMB*	0.484	5.730	2.8295
4	2.34	BR	BMB	0.419	5.111	11.7056
5	2.61	NO ₃ -N	BMB	1.049	11.028	4.7533
7	3.61	PO ₄ -P	BMB	0.588	3.739	8.9202
8	4.12	SO ₄	BMB	1.616	10.352	23.9833



Anion Chromatography Working Standard									
Prep Date: 09/25/19									
Exp Date: 09/26/19									
Prep'd By (Initials): BW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	142626-24-38407	10/30/20	312.5 µL	25 mL	Millipore Water	12.5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICN021	1000	N2-NOX672889	05/01/20	411 µL	25 mL	Millipore Water	5 as NO2-N
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	250 µL	25 mL	Millipore Water	50
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	625 µL	25 mL	Millipore Water	25
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	250 µL	25 mL	Millipore Water	10
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	625 µL	25 mL	Millipore Water	25
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	1250 µL	25 mL	Millipore Water	50

Anion Chromatography Calibration Curve									
Prep Date: 09/25/19									
Exp Date: 09/25/19									
Prep'd By (Initials): BW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. Range (ug/mL)	Reference To APPL Prep Date	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc. Range (µg/mL)
Anion Chromatography Working Standard	Varies	ICal1	5.0-50.0	Prepared 09/25/19	09/25/19	200 µL	25000 µL	Millipore Water	0.04-0.40
Anion Chromatography Working Standard	Varies	ICal2	5.0-50.0	Prepared 09/25/19	09/25/19	20 µL	1000 µL	Millipore Water	0.1-1.0
Anion Chromatography Working Standard	Varies	ICal3	5.0-50.0	Prepared 09/25/19	09/25/19	50 µL	1000 µL	Millipore Water	0.25-2.5
Anion Chromatography Working Standard	Varies	ICal4	5.0-50.0	Prepared 09/25/19	09/25/19	100 µL	1000 µL	Millipore Water	0.5-5.0
Anion Chromatography Working Standard	Varies	ICal5	5.0-50.0	Prepared 09/25/19	09/25/19	200 µL	1000 µL	Millipore Water	1.0-10.0
Anion Chromatography Working Standard	Varies	ICal6	5.0-50.0	Prepared 09/25/19	09/25/19	500 µL	1000 µL	Millipore Water	2.5-25.0
Anion Chromatography Working Standard	Varies	ICal7	5.0-50.0	Prepared 09/25/19	09/25/19	700 µL	1000 µL	Millipore Water	3.5-35.0
Anion Chromatography Working Standard	Varies	ICal8	5.0-50.0	Prepared 09/25/19	09/25/19	1000 µL	1000 µL	Millipore Water	5.0-50.0

Anion Chromatography LCS/ICV									
Prep Date: See Injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): BW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. Range (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Fluoride	Inorganic Ventures	ICF1	993-999	K-F652018-39801	10/23/19	125 µL	25 mL	Millipore Water	5
Nitrite	Inorganic Ventures	ICNO21	993-1001	M2-NOX660562-39802	10/23/19	250 µL	25 mL	Millipore Water	10
Chloride	Inorganic Ventures	ICCL1	995-1001	N2CL664868-39036	11/26/19	625 µL	25 mL	Millipore Water	25
O-Phosphate as P	Inorganic Ventures	ICPPO41	1001-1009	M2-POX655826-39803	10/23/19	250 µL	25 mL	Millipore Water	10
Nitrate as N	Inorganic Ventures	ICNNO31	997-1005	N2-NOX667147-39510	10/23/19	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Bromide, 1000 µg/mL in H2O	GPI International	4400-IC8M	995-1005	16H087-37320	02/06/20	312.5 µL	25 mL	Millipore Water	12.5
Sulfate	Inorganic Ventures	ICSO41	998-1006	N2-SOX664928-39507	11/27/19	625 µL	25 mL	Millipore Water	25

Anion Chromatography CCV									
Prep Date: See Injection Log									
Exp Date: 24 hours after prep									
Prep'd By (Initials): BW									
Initial Standard Information						Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc (µg/mL)
Ion Chromatography Standard Fluoride 1000 µg/mL in H2O	o2si	O2SI-062002-01-01	1000	687393-38-40744	10/30/20	125 µL	25 mL	Millipore Water	5
Ion Chromatography Standard Nitrite 1000 µg/mL in H2O	Inorganic Ventures	ICN021	1000	N2-NOX672889	05/01/20	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Chloride 5000 µg/mL in H2O	o2si	062001-08-03	5000	10084781-1-39578	02/21/20	125 µL	25 mL	Millipore Water	25
Ortho-Phosphate as P Standard	Ultra Scientific	ICC-005A	1000	G34-CP-3323-39057	08/31/23	250 µL	25 mL	Millipore Water	10
Ion Chromatography Standard Nitrate as N 1000 µg/mL in H2O	o2si	062003-01-03	1000	880117-4-39577	02/21/20	125 µL	25 mL	Millipore Water	5
Bromide Standard	Ultra Scientific	ICC-001	1000	CR-5372-39521	12/31/21	312.5 µL	25 mL	Millipore Water	12.5
Sulfate Standard	Agilent	ICC-006	1000	CS-0688-40047	03/31/22	625 µL	25 mL	Millipore Water	25

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	BA1	ICAL1 190925	25/Sep/2019 16:54	Calibration Standard	
2	BA2	ICAL2 190925	25/Sep/2019 17:01	Calibration Standard	
3	BA3	ICAL5 190925	25/Sep/2019 17:09	Calibration Standard	
4	BA4	ICAL8 190925	25/Sep/2019 17:16	Calibration Standard	
5	R1	ICB 190925	25/Sep/2019 17:24	Unknown	
6	R3	ICV/LCS 190925	25/Sep/2019 17:31	Check Standard	
7	R3	ICVD/LCSD 190925	25/Sep/2019 17:39	Check Standard	
8	R2	CCV 190925	25/Sep/2019 17:46	Check Standard	
9	R1	CCB 190925	25/Sep/2019 17:54	Unknown	
10	RD7	BA0000W03	25/Sep/2019 18:01	Unknown	NDF10 NO3-N Cl; NDF100 SO4
11	RD8	BA00001W01	25/Sep/2019 18:09	Unknown	NDF10 NO3-N Cl; NDF100 SO4
12	RE1	BA00002W01	25/Sep/2019 18:16	Unknown	NDF10 NO3-N Cl; NDF100 SO4
13	RE3	BA00055W12	25/Sep/2019 18:24	Unknown	
14	RE4	BA00055W12 MS	25/Sep/2019 18:31	Unknown	
15	RE5	BA00055W12 MSD	25/Sep/2019 18:39	Unknown	
16	RE6	BA00065W01	25/Sep/2019 18:46	Unknown	
17	RE7	BA00094W12	25/Sep/2019 18:54	Unknown	filtered
18	RE8	BA00098W12	25/Sep/2019 19:01	Unknown	filtered
19	BA5	AZ99900W07	25/Sep/2019 19:09	Unknown	
20	BA6	AZ99908W07	25/Sep/2019 19:16	Unknown	
21	R2	CCV 190925	25/Sep/2019 19:24	Check Standard	
22	R1	CCB 190925	25/Sep/2019 19:31	Unknown	
23	R2	STOP	n.a.	Unknown	

Method 300 and 9056 Injection Log

No.	Position	Injection Description	Inject Time	Type	Comment
1	R2	CCV 191024xxx	24/Oct/2019 17:45	Check Standard	Br low; reprep
2	R1	CCB 191024	24/Oct/2019 17:52	Unknown	
3	R2	CCV 191024	24/Oct/2019 18:00	Check Standard	PO4 low
4	R1	CCB 191024	24/Oct/2019 18:07	Unknown	
5	R3	LCS 191024A	24/Oct/2019 18:15	Check Standard	PO4 fail
6	R3	LCSD 191024A	24/Oct/2019 18:22	Check Standard	PO4 fail
7	GA1	BA01747W07	24/Oct/2019 18:30	Unknown	ndf2 CI Bat 191022 1550
8	GA2	BA01748W07	24/Oct/2019 18:37	Unknown	Bat 191022 1708
9	GA3	BA01749W07	24/Oct/2019 18:45	Unknown	Bat 191022 1055
10	GA4	BA01750W07	24/Oct/2019 18:52	Unknown	*Bottle says preserved; pH 7 - can't
11	GA5	BA01751W07	24/Oct/2019 19:00	Unknown	Bat 191022 1738 Dup
12	GA6	BA01752W07	24/Oct/2019 19:07	Unknown	ndf2 CI Bat 191023 1036
13	GA7	BA01753W07	24/Oct/2019 19:15	Unknown	*Bottle says preserved; pH 7 - can't
14	R2	CCV 191024	24/Oct/2019 19:22	Check Standard	PO4 low
15	R1	CCB 191024	24/Oct/2019 19:30	Unknown	
16	GA8	BA01777W05	24/Oct/2019 19:37	Unknown	ndf2 CI RH 191022 1259
17	GB1	BA01777W05 DUP	24/Oct/2019 19:45	Unknown	RH 191022 1259
18	GB2	BA01777W05 MS	24/Oct/2019 19:52	Unknown	NO3 SO4 CI RH 191022 1259 MS
19	GB3	BA01777W05 MSD	24/Oct/2019 20:00	Unknown	NO3 SO4 CI RH 191022 1259 MSD
20	GB4	BA01775W05	24/Oct/2019 20:07	Unknown	RH 191022 1130
21	GB5	BA01784W08	24/Oct/2019 20:15	Unknown	ndf2 CI RH 191023 0740
22	GB6	BA01779W05	24/Oct/2019 20:22	Unknown	ndf10 SO4; ndf50 CI RH 191023 09
23	GB7	BA01684W01	24/Oct/2019 20:29	Unknown	
24	GB8	BA01685W01	24/Oct/2019 20:37	Unknown	
25	R2	CCV 191024	24/Oct/2019 20:44	Check Standard	PO4 low
26	R1	CCB 191024	24/Oct/2019 20:52	Unknown	
27	R2	STOP	24/Oct/2019 20:57	Unknown	
28	GC1	BA01684W01 DF2	25/Oct/2019 07:06	Unknown	DF2 NO3
29	GC2	BA01685W01 DF2	25/Oct/2019 07:13	Unknown	DF2 NO3
30	GC3	BA01128W11	25/Oct/2019 07:21	Unknown	
31	GC4	BA01128W11 MS	25/Oct/2019 07:28	Unknown	NO2 NO3
32	GC5	BA01128W11 MSD	25/Oct/2019 07:36	Unknown	NO2 NO3
33	GC6	BA01129W11	25/Oct/2019 07:43	Unknown	
34	GC7	BA01129W11 MS	25/Oct/2019 07:51	Unknown	NO2 NO3
35	GC8	BA01129W11 MSD	25/Oct/2019 07:58	Unknown	NO2 NO3
36	GD1	BA01665W08 DF20	25/Oct/2019 08:06	Unknown	SO4 ndf20
37	GD2	BA01666W06 DF10	25/Oct/2019 08:14	Unknown	SO4 ndf10
38	GD3	BA01736W07 DF20	25/Oct/2019 08:21	Unknown	ndf20 CI
39	GD4	BA01740W07 DF5	25/Oct/2019 08:29	Unknown	ndf5 CI
40	GD5	BA01741W07 DF10	25/Oct/2019 08:36	Unknown	ndf10 CI
41	GD6	BA01654W07 DF2	25/Oct/2019 08:44	Unknown	ndf2 SO4
42	R2	CCV 191024	25/Oct/2019 08:51	Check Standard	CI NO2 PO4 low
43	R1	CCB 191024	25/Oct/2019 08:59	Unknown	
44	GA2	BA01537W02 DF10	25/Oct/2019 09:06	Unknown	ndf10 SO4
45	GD7	BA01656W07 DF5	25/Oct/2019 09:14	Unknown	ndf5 CI
46	GD8	BA01658W07 DF20	25/Oct/2019 09:21	Unknown	ndf20 CI
47	GE1	BA01660W07 DF20	25/Oct/2019 09:29	Unknown	ndf20 CI
48	GE2	BA01660W07 DF2	25/Oct/2019 09:36	Unknown	ndf2 SO4
49	GE3	BA01747W07 DF2	25/Oct/2019 09:44	Unknown	ndf2 CI Bat 191022 1550 DF2
50	GE4	BA01752W07 DF2	25/Oct/2019 09:51	Unknown	ndf2 CI Bat 191023 1036 DF2
51	GE5	BA01753W07 DF10	25/Oct/2019 09:58	Unknown	*Bottle says preserved; pH 7 - can't
52	GE6	BA01777W05 DF2	25/Oct/2019 10:06	Unknown	ndf2 CI RH 191022 1259 DF2
53	GE7	BA01784W08 DF2	25/Oct/2019 10:13	Unknown	ndf2 CI RH 191023 0740 DF2
54	GE8	BA01779W05 DF10	25/Oct/2019 10:21	Unknown	ndf10 SO4; ndf50 CI RH 191023 09
55	R2	CCV 191024	25/Oct/2019 10:28	Check Standard	PO4 low
56	R1	CCB 191024	25/Oct/2019 10:36	Unknown	
57	GA1	BA01779W05 DF50	25/Oct/2019 10:43	Unknown	ndf10 SO4; ndf50 CI RH 191023 09
58	GA3	BA01579W11 DF5	25/Oct/2019 10:51	Unknown	ndf5 CL +MS/MSD
59	GA4	BA01579W11 MS DF5	25/Oct/2019 10:58	Unknown	ndf5 CL +MS/MSD
60	GA5	BA01579W11 MSD DF5	25/Oct/2019 11:06	Unknown	ndf5 CL +MS/MSD
61	GA6	BA01582W07 DF2	25/Oct/2019 11:13	Unknown	ndf2 CI
62	R2	CCV 191024	25/Oct/2019 11:21	Check Standard	PO4 low
63	R1	CCB 191024	25/Oct/2019 11:28	Unknown	
64	R2	STOP	n.a.	Unknown	

INORGANIC ANALYSIS
Calibration Data

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 90551 SDG: 90551

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 10/25/19

Analyte	Calibration Verification									M
	True ICV	Found 18:10	%R(1)	True CCV1	Found 18:32	%R(1)	True CCV1	Found 18:53	%R(1)	
TOXN	3	2.9182	97.3	3	3.0831	103	3	2.961	98.7	

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: AECOM

ARF No: 90551 SDG: 90551

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: o2si

Analysis Date: 10/25/19

Analyte	Calibration Verification									M
	True CCV1	Found 18:57	%R(1)	True	Found	%R(1)	True	Found	%R(1)	
TOXN	3	3.0799	103							

A.P.P.L. INC.

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BLANKS

Lab Name: A.P.P.L. INC.

Contract: AECOM

ARF No.: 90551

SDG: 90551

Preparation Blank Matrix (soil/water): water

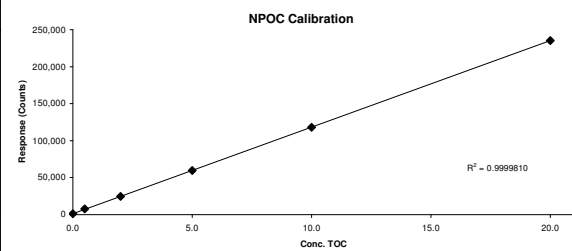
Preparation Blank Concentration Units (ug/L or mg/kg): mg/L

Analyte	Calibration Blanks										M
	ICB 10/25/19 18:12	C	CCB 10/25/19 18:34	C	CCB 10/25/19 18:54	C	CCB 10/25/19 18:58	C		C	
TOXN	.100	U	.100	U	.100	U	.100	U			

INORGANIC ANALYSIS
Raw Data

Method: WetChem	TOTAL ORGANIC CARBON	Instrument: Tic Toc
Analyte: TOC	Units mg/L	
Analyst: AR	QCG: 191107A	
	Final Volume: 40mL	

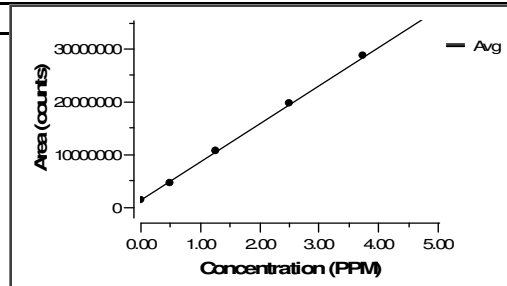
Date	Time	Appl ID	[TOC]	Raw	% Recovery
10/31/19	19:20	QC blank	0.00	1130.000	
10/31/19	19:56	Ical 1	0.50	7935.000	
10/31/19	20:28	Ical 2	2.00	24866.000	
10/31/19	21:02	Ical 3	5.00	59510.000	
10/31/19	21:35	Ical 4	10.00	118117.000	
10/31/19	22:08	Ical 5	20.00	235471.000	
11/01/19	10:03	ICB	0.08	883.000	
11/01/19	10:39	ICV	10.40	121613.000	104.0%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2019-11-08	06:10 PM	CCV	1	62296	40mL	0.000	5.192	5.19	0.33	5.00	103.8%
2019-11-08	06:46 PM	CCB	1	3065	40mL	0.000	0.126	0.13	0.02		
2019-11-08	07:21 PM	191107A LCS	1	62286	40mL	0.000	5.191	5.19	0.00	5.00	103.8%
2019-11-08	07:57 PM	191107A LCSD	1	61857	40mL	0.000	5.154	5.15	0.04	5.00	103.1%
2019-11-08	08:33 PM	AZ99539W15	1	100224	40mL	0.000	8.567	8.57	0.09		
2019-11-08	09:06 PM	AZ99541W15	1	29600	40mL	0.000	2.527	2.53	0.02		
2019-11-08	09:39 PM	AZ99542W15	1	16254	40mL	0.000	1.386	1.39	0.00		
2019-11-08	10:12 PM	AZ99679W15	1	21758	40mL	0.000	1.857	1.86	0.01		
2019-11-08	10:45 PM	AZ99892W15	1	40797	40mL	0.000	3.485	3.49	0.06		
2019-11-08	11:18 PM	AZ99893W15	1	16844	40mL	0.000	1.436	1.44	0.01		
2019-11-08	11:51 PM	AZ99894W15	1	53708	40mL	0.000	4.589	4.59	0.21		
2019-11-09	12:24 AM	AZ99897W15	1	26563	40mL	0.000	2.268	2.27	0.00		
2019-11-09	12:57 AM	BA00055W15	1	32841	40mL	0.000	2.805	2.81	0.01		
2019-11-09	01:30 AM	BA00094W15	1	53330	40mL	0.000	4.557	4.56	0.03		
2019-11-09	02:03 AM	BA00094W15 DUP	1	52736	40mL	0.000	4.506	4.51	0.05		
2019-11-09	02:36 AM	CCV	1	60531	40mL	0.000	5.04	5.04	0.13	5.00	100.8%
2019-11-09	03:12 AM	CCB	1	3047	40mL	0.000	0.124	0.12	0.01		
2019-11-09	03:48 AM	BA00098W15	1	22600	40mL	0.000	1.929	1.93	0.07		
2019-11-09	04:21 AM	BA01743W05	1	26547	40mL	0.000	2.266	2.27	0.05		
2019-11-09	04:54 AM	BA01744W05	1	81873	40mL	0.000	6.998	7.00	0.28		
2019-11-09	05:27 AM	BA01746W05	1	24787	40mL	0.000	2.115	2.12	0.02		
2019-11-09	06:00 AM	BA01775W13	1	10048	40mL	0.000	0.855	0.86	0.02		
2019-11-09	06:33 AM	BA01777W13	1	3946	40mL	0.000	0.333	0.33	0.02		
2019-11-09	07:06 AM	BA01779W13	1	8470	40mL	0.000	0.72	0.72	0.03		
2019-11-09	07:41 AM	BA01784W18	1	5085	40mL	0.000	0.43	0.43	0.01		
2019-11-09	08:14 AM	BA01784W18 DUP	1	5080	40mL	0.000	0.43	0.43	0.03		
2019-11-09	08:47 AM	BA01784W18 MS	1	58618	40mL	0.000	5.009	5.01	1.97		
2019-11-09	09:20 AM	BA01784W18 MSD	1	60703	40mL	0.000	5.187	5.19	0.74		
2019-11-09	09:53 AM	BA02407W01	1	14889	40mL	0.000	1.269	1.27	0.02		
2019-11-09	10:26 AM	CCV	1	60294	40mL	0.000	5.02	5.02	0.04	5.00	100.4%
2019-11-09	11:02 AM	CCB	1	3187	40mL	0.000	0.137	0.14	0.01		

Method: WetChem	TOTAL ORGANIC CARBON	Instrument: Tic Toc
Analyte: DOC	Units mg/L	
Analyst: AR	QCG: 191105A	
	Final Volume: 40mL	

Date	Time	Appl ID	[TOC]	Raw	% Recovery
10/31/19	19:20	QC blank	0.00	1130.000	
10/31/19	19:56	Ical 1	0.50	7935.000	
10/31/19	20:28	Ical 2	2.00	24866.000	
10/31/19	21:02	Ical 3	5.00	59510.000	
10/31/19	21:35	Ical 4	10.00	118117.000	
10/31/19	22:08	Ical 5	20.00	235471.000	
11/01/19	10:03	ICB	0.08	883.000	
11/01/19	10:39	ICV	10.40	121613.000	104.0%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2019-11-05	03:44 PM	CCV	1	63408	40mL	0.010	5.287	5.28	0.13	5.00	105.5%
2019-11-05	04:20 PM	CCB	1	1709	40mL	0.010	0.01	0.00	0.01		
2019-11-05	04:56 PM	191105A LCS	1	60895	40mL	0.010	5.072	5.06	0.08		
2019-11-05	05:31 PM	191105A LCSD	1	60928	40mL	0.010	5.074	5.06	0.02		
2019-11-05	06:07 PM	BA01736W14	1	60233	40mL	0.010	5.147	5.14	2.88		
2019-11-05	06:41 PM	BA01736W14 DUP	1	69335	40mL	0.010	5.926	5.92	0.16		
2019-11-05	07:14 PM	BA01736W14 MS	1	120114	40mL	0.010	10.268	10.26	2.84		
2019-11-05	07:48 PM	BA01736W14 MSD	1	122952	40mL	0.010	10.511	10.50	1.63		
2019-11-05	08:21 PM	BA01737W09	1	15408	40mL	0.010	1.314	1.30	0.01		
2019-11-05	08:54 PM	BA01738W09	1	9921	40mL	0.010	0.844	0.83	0.01		
2019-11-05	09:27 PM	BA01739W09	1	20767	40mL	0.010	1.772	1.76	0.03		
2019-11-05	10:00 PM	BA01740W13	1	112932	40mL	0.010	9.654	9.64	0.16		
2019-11-05	11:08 PM	BA01784W18	1	6306	40mL	0.010	0.535	0.53	0.21		
2019-11-05	11:41 PM	BA01747W09	1	116542	40mL	0.010	9.963	9.95	0.04		
2019-11-06	12:15 AM	BA01748W09	1	46602	40mL	0.010	3.981	3.97	0.04		
2019-11-06	12:48 AM	BA01749W13	1	67409	40mL	0.010	5.761	5.75	0.01		
2019-11-06	01:21 AM	CCV	1	62631	40mL	0.010	5.22	5.21	0.24	5.00	104.2%
2019-11-06	01:57 AM	CCB	1	2052	40mL	0.010	0.039	0.03	0.01		
2019-11-06	02:33 AM	BA01750W09	1	12342	40mL	0.010	1.051	1.04	0.01		
2019-11-06	03:06 AM	BA01751W09	1	12675	40mL	0.010	1.08	1.07	0.01		
2019-11-06	04:13 AM	BA01753W13	1	76200	40mL	0.010	6.513	6.50	0.14		
2019-11-06	04:47 AM	BA01831W18	1	4158	40mL	0.010	0.351	0.34	0.05		
2019-11-06	05:20 AM	BA01833W18 DUP	1	4389	40mL	0.010	0.371	0.36	0.02		
2019-11-06	05:53 AM	BA01833W18	1	4799	40mL	0.010	0.406	0.40	0.01		
2019-11-06	06:26 AM	BA02301W17	1	39760	40mL	0.010	3.396	3.39	0.04		
2019-11-06	06:59 AM	CCV	1	61255	40mL	0.010	5.103	5.09	0.25	5.00	101.9%
2019-11-06	07:36 AM	CCB	1	1897	40mL	0.010	0.026	0.02	0.01		

Method SM3500Fe		Units mg/L		Rev 2, 04-05-19	
Analyte Fe2+		QCG: 191024		Instrument: Genesis Spectrometer	
Analyst fjr		Final Volume: 50mL		Wavelength: 510 nm	
Units: mg/L					

Date	Time	Appl ID	[Fe2+]	Absorbance	% Recovery
06/28/19	12:48	ICB	0.00	0.000	
06/28/19	12:49	Ical 1	1.00	0.092	95.2%
06/28/19	12:50	Ical 2	2.00	0.195	97.9%
06/28/19	12:51	Ical 3	4.00	0.408	100.9%
06/28/19	12:51	Ical 4	5.00	0.507	100.0%
06/28/19	12:52	Ical 5	10.00	1.019	100.0%
06/28/19	13:08	ICV	3.00	0.326	107.9%
06/28/19	12:53	ICB	0.00	0.002	

Slope	0.102479592	Algorithm Check: Appl ID Absorbance Result ICV/LCS 191024A 0.295 2.93 Result = (Absorbance-Raw Blk-Intercept)/ Slope Test: FJR 10/24/19 2.93
Intercept	-0.005591837	
Coefficient of Determination	0.999872044	

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Raw BLK	Calc Conc	Result	QC True	% Recovery
10/24/19	23:21	CCV 4.0 191024	1	0.413	25mL		4.08	4.08	4.00	102.1%
10/24/19	23:21	CCB 191024	1	0.000	25mL		0.05	0.05		
10/24/19	23:22	ICV/LCS 191024A	1	0.295	25mL		2.93	2.93	3.00	97.8%
10/24/19	23:23	ICV/LCSD 191024A	1	0.298	25mL		2.96	2.96	3.00	98.7%
10/24/19	23:25	BA01784W19	1	0.002	25mL		0.07	0.07		
10/24/19	23:26	BA01779W14	1	0.003	25mL		0.08	0.08		
10/24/19	23:27	BA01775W14	1	0.040	25mL		0.44	0.44		
10/24/19	23:28	BA01777W14	1	0.002	25mL		0.07	0.07		
10/24/19	23:29	BA01777W14 MS	1	0.310	25mL		3.08	3.08		
10/24/19	23:29	BA01777W14 MSD	1	0.315	25mL		3.13	3.13		
10/24/19	23:30	CCV 4.0 191024	1	0.416	25mL		4.11	4.11	4.00	102.8%
10/24/19	23:31	CCB 191024	1	0.001	25mL		0.06	0.06		

AQ2 Tray Report



Serial Number: 190170
Software Version: 2.1.0
Report Requested By: Eve V
Date & Time: 2019-10-28 10:58:04
Tray Number: 8
Tray Name: 191025A NO2 NO3 TOXN

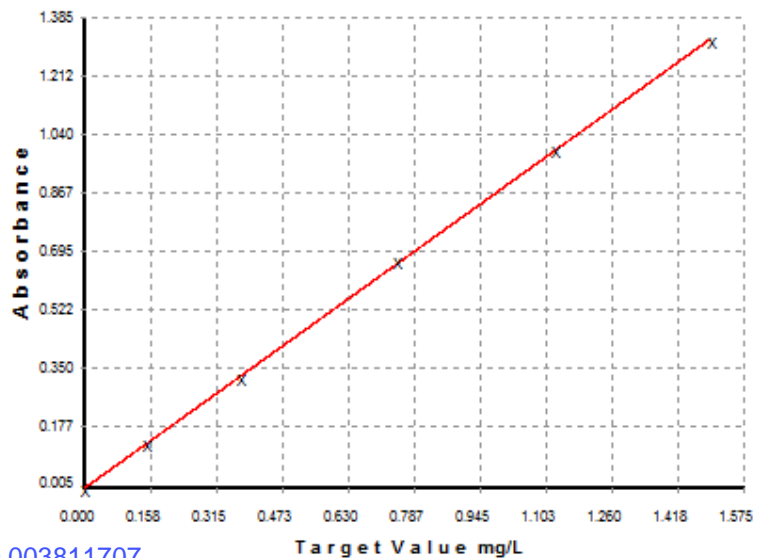
Nitrite-N

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0046	0.0014	0.0000	
S90	0.1341	0.1485	0.1500	-1.01
S91	0.3286	0.3694	0.3750	-1.49
S92	0.6686	0.7557	0.7500	0.75
S93	0.9985	1.1305	1.1250	0.48
S94	1.3191	1.4946	1.5000	-0.36
S0	0.0140	0.0121	0.0000	

Polynomial Order: 1
 Correlation Coefficient: 1.0000
 Carryover(%): 0.7
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -3.811707E-003
 b =: 1.135970E+000
 Date & Time: 2019-10-25 17:10:30

Calibration Graph



Algorithm check

$$y = 1.135970(0.635270) - 0.003811707$$

$$y = 0.718$$

EV 11/04/19

Reagents

Name	Batch	Prepared By	Expiry Date
Sulfa-NEDD		Joel	
NO2 Buffer		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0046			0.004555			Ev	2019-10-25 17:03:09
S90	Standard 90	0.1341			0.134065			Ev	2019-10-25 17:04:22
S91	Standard 91	0.3286			0.328552			Ev	2019-10-25 17:05:36
S92	Standard 92	0.6686			0.668567			Ev	2019-10-25 17:06:49
S93	Standard 93	0.9985			0.998497			Ev	2019-10-25 17:08:03
S94	Standard 94	1.3191			1.319085			Ev	2019-10-25 17:09:16
S0	Standard 0	0.0140			0.014031			Ev	2019-10-25 17:10:30
CCV	CCV .75	0.7419	mg/L		0.656436			Ev	2019-10-25 17:11:44
CCB	CCB	0.0073	mg/L		0.009771			Ev	2019-10-25 17:12:58
3	U1	✓ ICB NO2			0.635270			Ev	2019-10-25 17:14:12
5	U3	ICB NO2 NO3 TOXN			0.009730			Ev	2019-10-25 17:15:26
6	U4	191025A BLK NO2 NO3 TOXN			0.005094			Ev	2019-10-25 17:16:39
7	U5	191025A LCS NO2			0.645518			Ev	2019-10-25 17:17:54
8	U6	191025A LCSD NO2			0.642699			Ev	2019-10-25 17:19:08
9	U7	191025A LCS NO3 TOXN			0.010262			Ev	2019-10-25 17:20:22
10	U8	194025A LCSD NO3 TOXN			0.005000			Ev	2019-10-25 17:21:37
11	U9	1ppm NO2			0.870580			Ev	2019-10-25 17:22:51

12	U10	1ppm NO3	0.0088	mg/L	0.011068		Ev	2019-10-25 17:24:04
13	U11	BA01115W01	2.4511	mg/L	0.542791	x4.0000	Ev	2019-10-25 19:16:47
13	U11	BA01115W01	2.4089	mg/L	2.123878		Ev	2019-10-25 17:25:20
	CCV	CCV .75	0.7569	mg/L	0.669625		Ev	2019-10-25 17:25:58
	CCB	CCB	0.0075	mg/L	0.009976		Ev	2019-10-25 17:28:07
14	U12	BA01117W01	0.0025	mg/L	0.005580		Ev	2019-10-25 17:30:21
15	U13	BA01579W12	0.0020	mg/L	0.005081		Ev	2019-10-25 17:32:39
16	U14	BA01579W12 MS	0.7343	mg/L	0.649781		Ev	2019-10-25 17:34:56
17	U15	BA01579W12 MSD	0.7333	mg/L	0.648889		Ev	2019-10-25 17:37:13
	CCV	CCV .75	0.7244	mg/L	0.641005		Ev	2019-10-25 17:39:31
	CCB	CCB	0.0066	mg/L	0.009145		Ev	2019-10-25 17:41:44
	CCV	CCV .75	0.7596	mg/L	0.671998			2019-10-25 19:12:16
	CCB	CCB	0.0065	mg/L	0.009050			2019-10-25 19:14:34
	CCV	CCV .75	0.7341	mg/L	0.649603			2019-10-25 19:19:00
	CCB	CCB	0.0070	mg/L	0.009526			2019-10-25 19:20:08

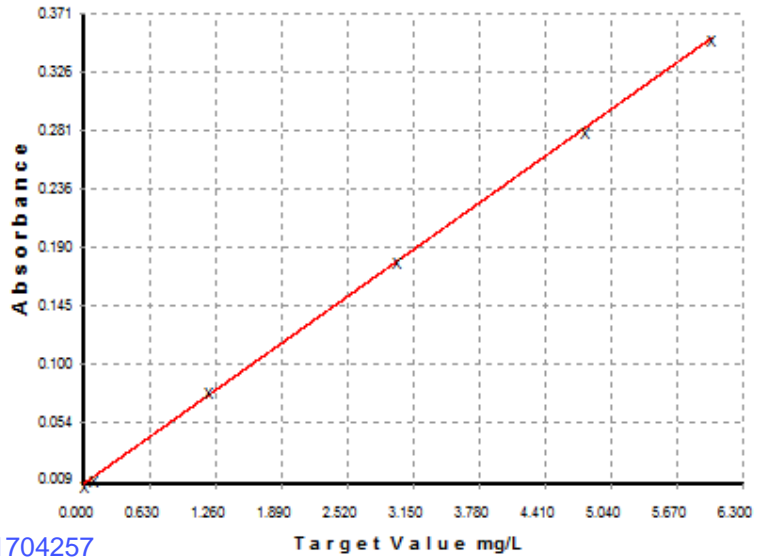
TOXN

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0089	-0.0141	0.0000	
S90	0.0136	0.0673	0.1000	-32.73
S91	0.0816	1.2572	1.2000	4.77
S92	0.1824	3.0197	3.0000	0.66
S93	0.2815	4.7531	4.8000	-0.98
S94	0.3538	6.0168	6.0000	0.28
S0	0.0090	-0.0126	0.0000	

Polynomial Order: 1
 Correlation Coefficient: 0.9999
 Carryover(%): 0.0
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -1.704257E-001
 b =: 1.748890E+001
 Date & Time: 2019-10-25 18:03:38

Calibration Graph



Algorithm check
 $y = 17.48890(0.176605) - 0.1704257$
 $y = 2.92$
 EV 11/04/19

Reagents

Name	Batch	Prepared By	Expiry Date
NO3 W Buffer		Joel	
Sulfa-NEDD		Joel	

Test Results

Cup Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
S1	Standard 1	0.0089			0.008941			Ev	2019-10-25 17:50:30
S90	Standard 90	0.0136			0.013591			Ev	2019-10-25 17:52:41
S91	Standard 91	0.0816			0.081632			Ev	2019-10-25 17:54:53
S92	Standard 92	0.1824			0.182407			Ev	2019-10-25 17:57:04
S93	Standard 93	0.2815			0.281524			Ev	2019-10-25 17:59:15
S94	Standard 94	0.3538			0.353778			Ev	2019-10-25 18:01:27
S0	Standard 0	0.0090			0.009022			Ev	2019-10-25 18:03:38
CCV	CCV	3.0328	mg/L		0.183159			Ev	2019-10-25 18:05:50
CCB	CCB	-0.0183	mg/L		0.008696			Ev	2019-10-25 18:08:02
4	U2	✓ ICV NO3 TOXN	2.9182	mg/L	0.176605			Ev	2019-10-25 18:10:14
5	U3	ICB NO2 NO3 TOXN	-0.0138	mg/L	0.008954			Ev	2019-10-25 18:12:26
6	U4	191025A BLK NO2 NO3 TOXN	-0.0088	mg/L	0.009240			Ev	2019-10-25 18:14:39
9	U7	191025A LCS NO3 TOXN	3.0090	mg/L	0.181799			Ev	2019-10-25 18:16:51
10	U8	194025A LCSD NO3 TOXN	3.2938	mg/L	0.198082			Ev	2019-10-25 18:19:03
12	U10	1ppm NO3	1.0131	mg/L	0.067674			Ev	2019-10-25 18:21:15
14	U12	BA01117W01	9.9271	mg/L	0.066507	x10.0000		Ev	2019-10-25 19:25:17
14	U12	BA01117W01	10.4563	mg/L	0.607626			Ev	2019-10-25 18:23:27
15	U13	BA01579W12	0.6195	mg/L	0.045170			Ev	2019-10-25 18:25:40
16	U14	BA01579W12 MS	4.0269	mg/L	0.239997			Ev	2019-10-25 18:27:52
17	U15	BA01579W12 MSD	4.0394	mg/L	0.240715			Ev	2019-10-25 18:30:04
	CCV	CCV	3.0831	mg/L	0.186033			Ev	2019-10-25 18:32:17
	CCB	CCB	-0.0162	mg/L	0.008818			Ev	2019-10-25 18:34:30
18	U16	BA01582W08	0.5623	mg/L	0.041899			Ev	2019-10-25 18:36:42
19	U17	BA01651W08	-0.0088	mg/L	0.009240			Ev	2019-10-25 18:38:54
20	U18	BA01654W08	1.7310	mg/L	0.108724			Ev	2019-10-25 18:41:08
21	U19	BA01656W08	0.8269	mg/L	0.057028			Ev	2019-10-25 18:43:20
22	U20	BA01658W08	0.6408	mg/L	0.046384			Ev	2019-10-25 18:45:32
23	U21	BA01660W08	1.0870	mg/L	0.071899			Ev	2019-10-25 18:47:44
24	U22	BA01662W15	0.3557	mg/L	0.030085			Ev	2019-10-25 18:49:57
25	U23	BA01664W15	0.3196	mg/L	0.028019			Ev	2019-10-25 18:50:35
26	U24	BA01775W13	-0.0026	mg/L	0.009594			Ev	2019-10-25 18:51:39
27	U25	BA01777W13	0.4837	mg/L	0.037402			Ev	2019-10-25 18:52:35
	CCV	CCV	2.9610	mg/L	0.179053			Ev	2019-10-25 18:53:31

	CCB	CCB	-0.0062	mg/L	0.009390	Ev	2019-10-25 18:54:28
28	U26	BA01779W13	1.9738	mg/L	0.122604	Ev	2019-10-25 18:55:25
29	U27	BA01784W18	0.3027	mg/L	0.027053	Ev	2019-10-25 18:56:21
	CCV	CCV	3.0799	mg/L	0.185849	Ev	2019-10-25 18:57:17
	CCB	CCB	-0.0319	mg/L	0.007922	Ev	2019-10-25 18:58:14
	CCV	CCV	3.0702	mg/L	0.185297		2019-10-25 19:23:23
	CCB	CCB	-0.0107	mg/L	0.009131		2019-10-25 19:24:20
	CCV	CCV	3.1146	mg/L	0.187837		2019-10-25 19:26:13
	CCB	CCB	-0.0095	mg/L	0.009199		2019-10-25 19:27:10

Nitrate-N

Test Results

Cup	Type	ID	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time/Date
6	U4	191025A BLK NO2 NO3 TOXN	-0.0108	mg/L		0.000000			Ev	2019-10-25 18:14:39
6	U4	191025A BLK NO2 NO3 TOXN				0.000000			Ev	2019-10-25 18:14:39
9	U7	191025A LCS NO3 TOXN	3.0012	mg/L		0.000000			Ev	2019-10-25 18:16:51
9	U7	191025A LCS NO3 TOXN				0.000000			Ev	2019-10-25 18:16:51
10	U8	194025A LCSD NO3 TOXN	3.2919	mg/L		0.000000			Ev	2019-10-25 18:19:03
10	U8	194025A LCSD NO3 TOXN				0.000000			Ev	2019-10-25 18:19:03
12	U10	1ppm NO3	1.0044	mg/L		0.000000			Ev	2019-10-25 18:21:15
12	U10	1ppm NO3				0.000000			Ev	2019-10-25 18:21:15
14	U12	BA01117W01	9.9246	mg/L		0.000000			Ev	2019-10-25 19:25:17
14	U12	BA01117W01				0.000000			Ev	2019-10-25 19:25:17
15	U13	BA01579W12	0.6176	mg/L		0.000000			Ev	2019-10-25 18:25:40
15	U13	BA01579W12				0.000000			Ev	2019-10-25 18:25:40
16	U14	BA01579W12 MS	3.2925	mg/L		0.000000			Ev	2019-10-25 18:27:52
16	U14	BA01579W12 MS				0.000000			Ev	2019-10-25 18:27:52
17	U15	BA01579W12 MSD	3.3061	mg/L		0.000000			Ev	2019-10-25 18:30:04
17	U15	BA01579W12 MSD				0.000000			Ev	2019-10-25 18:30:04

Metrohm 814/809 Titrando Data

Sample ID	Analysis Date/Time	Method	Titration Volume (to 8.3)	OH	CO3	HCO3	Total Alk	Unit	Sample Vol	N	Batch	Initials
BA01784W09	2019-10-29 15:30:35 UTC-8	Alkalinity	0.000	1.418	0.00	58.99	58.99	mg/L	25 mL	0.0208	191029C	CD
BA01779W05	2019-10-29 15:22:58 UTC-8	Alkalinity	0.000	3.670	0.00	152.67	152.67	mg/L	25 mL	0.0208	191029C	CD
BA01777W05	2019-10-29 15:16:41 UTC-8	Alkalinity	0.000	1.312	0.00	54.58	54.58	mg/L	25 mL	0.0208	191029C	CD
BA01775W05	2019-10-29 15:10:39 UTC-8	Alkalinity	0.000	1.882	0.00	78.29	78.29	mg/L	25 mL	0.0208	191029C	CD
191029C LCSD	2019-10-29 13:03:33 UTC-8	Alkalinity	0.072	5.876	5.99	238.45	244.44	mg/L	25 mL	0.0208	191029C	CD
191029C LCS	2019-10-29 12:52:32 UTC-8	Alkalinity	0.000	5.878	0.00	244.52	244.52	mg/L	25 mL	0.0208	191029C	CD
191029C BLK	2019-10-29 11:45:11 UTC-8	Alkalinity	0.000	0.000	0.00	0.00	0.00	mg/L	25 mL	0.0208	191029C	CD

Nitrite

High Point @ 1.5 mg/L

0.2463 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

CCV @ 0.75 mg/L

0.1232 mL NO₂ Inorganic Ventures lot N2-NOX672889-40759 exp: 05/01/20
50 mL DI Water

ICV/LCS @ 0.73 mg/L

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21
50 mL DI Water

1 mg/L NO₂

400 uL of High point and 200 uL of DI made directly into a sample cup

Prep 10/25/19

Exp 11/01/19

EV

Nitrate/TOXN

High Point @ 6 mg/L

0.300 mL NO₃ O₂Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

CCV @ 3.0 mg/L

0.150 mL NO₃ O₂Si lot 880117-4-39577 exp: 2/21/20
50 mL DI Water

ICV/LCS @ 3.0 mg/L

0.150 mL NO₃ Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
50 mL DI Water

1 mg/L NO₃

100 uL of High point and 500 uL of DI made directly into a sample cup

MS @ 0.73 mg/L NO₂ and 2.5 mg/L NO₃

0.120 mL NO₂ Inorganic Ventures lot M2-NOX660562-40468 exp: 08/25/21 and
0.125 mL NO₃ Inorganic Ventures lot P2-NOX675324-49391 exp: 02/14/23
Final volume 50 mL of sample

Prep 10/25/19

Exp 11/01/19

EV

Tiamo Alkalinity Standard Prep										
Prep Date:										
Exp Date:										
Prep'd By (Initials): AR										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Unit	Conc	Lot Number - QA Number	Prep/Opened	Exp. Date	Aliquot from Stock	Final Volume	Solvent	Final Standard Conc
Sulfuric Acid (H2SO4)	J.T.Baker	NA	NA	167828	NA	NA	PURCHASED	NA	NA	NA
0.10N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.1N	167828	05/24/19	05/24/20	3ml	1L	DI	0.10N
0.02N Sulfuric Acid (H2SO4)	J.T.Baker	Normality	0.02N	167828	05/24/19	05/24/20	200mL	1L	DI	0.02N
Inorganic Spike(NaHCO3)	BDH	NA	NA	1575C510	10/18/18	08/14/20	PURCHASED	NA	NA	NA
Inorganic Spike Solution	BDH	Milligrams/Liters	250mg/L	1575C510	09/17/19	03/17/20	3.5g	500mL	DI	250mg/L
Standarizing Solution(NaCO3)	J.T.Baker	Normality	1N	178494	07/25/17	07/25/19	PURCHASED	NA	NA	NA

Name of Final Standard **TOC Calibration Curve**
 Prep Date 06/11/19
 Exp Date 07/09/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	50 uL	40 mL	DI Water	1.25 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	150 uL	40 mL	DI Water	3.75 ppm
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard **ICV (TOC)**
 Prep Date 06/11/19
 Exp Date 07/09/19

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1000 PPM ICV TOC Intermediate	APPL Inc.	Prep: 2/11/19	1000 mg/L	Prep: 2/11/19	07/09/19	100 uL	40mL	DI Water	2.5 ppm

Name of Final Standard **CCV (TOC)**
 Prep Date See Data
 Exp Date 1 year

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	CS-5157-40233	11/30/20	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard **TOC LCS/LCSD**
 Prep Date See Data
 Exp Date 1 year

Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	02/28/19	100 uL	40 mL	DI Water	2.5 ppm

Name of Final Standard **TOC MS/MSD**
 Prep Date See Data
 Exp Date 1 year

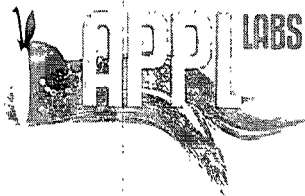
Prep'd By (Initials) AR

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	ULTRA Scientific	IQC-106-5	1000 mg/L	CR-0328-37639	02/28/19	100 uL	40 mL	sample	2.5 ppm

EPA 353.2 Injection Log

Directory: I:\EVE\Export\2019\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	25 Oct 2019	17:50	Standard 1 TOXN/NO3		191025A NO	1.
2	25 Oct 2019	17:52	Standard 90 TOXN/NO3		191025A NO	1.
3	25 Oct 2019	17:54	Standard 91 TOXN/NO3		191025A NO	1.
4	25 Oct 2019	17:57	Standard 92 TOXN/NO3		191025A NO	1.
5	25 Oct 2019	17:59	Standard 93 TOXN/NO3		191025A NO	1.
6	25 Oct 2019	18:01	Standard 94 TOXN/NO3		191025A NO	1.
7	25 Oct 2019	18:03	Standard 0 TOXN/NO3		191025A NO	1.
10	25 Oct 2019	18:10	ICV NO3 TOXN		191025A NO	1.
11	25 Oct 2019	18:12	ICB NO2 NO3 TOXN		191025A NO	1.
12	25 Oct 2019	18:14	191025A BLK NO2 NO3 TOXN		191025A NO	1.
13	25 Oct 2019	18:16	191025A LCS NO3 TOXN		191025A NO	1.
14	25 Oct 2019	18:19	194025A LCSD NO3 TOXN		191025A NO	1.
19	25 Oct 2019	18:32	CCV TOXN/NO3		191025A NO	1.
20	25 Oct 2019	18:34	CCB TOXN/NO3		191025A NO	1.
29	25 Oct 2019	18:51	BA01775W13 TOXN/NO3		191025A NO	1.
30	25 Oct 2019	18:52	BA01777W13 TOXN/NO3		191025A NO	1.
31	25 Oct 2019	18:53	CCV TOXN/NO3		191025A NO	1.
32	25 Oct 2019	18:54	CCB TOXN/NO3		191025A NO	1.
33	25 Oct 2019	18:55	BA01779W13 TOXN/NO3		191025A NO	1.
34	25 Oct 2019	18:56	BA01784W18 TOXN/NO3		191025A NO	1.
35	25 Oct 2019	18:57	CCV TOXN/NO3		191025A NO	1.
36	25 Oct 2019	18:58	CCB TOXN/NO3		191025A NO	1.



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

November 20, 2019

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Margie Pascua

Title: Report of Data: Case 90559

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

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

Dear Ms. Pascua:

Six water samples were received October 25, 2019. Written results for the requested analyses are being provided on this November 20, 2019.

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

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

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

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

Paula McCartney, Laboratory Director
APPL, Inc.

PM/lac
Enclosure
cc: File

Data Validation Package
for
60481245 CIV 0053 Red Hill Fuel Storage
APPL SDG 90559
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CASE NARRATIVE

Case Narrative

ARF: 90559

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Six water samples were received October 25, 2019, at 3.4°C, 4.9°C, and 3.4°C. The sample group was assigned Analytical Request Form (ARF) number 90559.

Sample Preparation and Analysis Information:

For the EPA 8011 analysis, the samples were extracted according to APPL SOP method MWE012.

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

For the EPA 8270D SIM analysis, the sample was extracted according to EPA method 3520C.

For the EPA 8270D Phenol analysis, the sample was extracted according to EPA method 3520C.

For the APPL SOP ANA2MEE analysis, the sample was extracted according to EPA method 3535.

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

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

For the EPA 6010C analysis, the sample was digested according to EPA method 3010A.

For the EPA 9060A, 300.0, 353.2, SM 2320B, SM 4500-SiD and SM 3500FeB analyses, the sample was prepared according to the methods.

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

Analytical Exceptions, Deviations and Abnormalities.

EPA 8270D SIM: Three RPDs exceeded the 20% limit in LCS/LCSD. No detects in the samples.

APPL SOP ANA2MEE: Manual integrations are performed according to the SOP. 2-MEE was manually integrated in one of the ICAL standards. Before and after chromatograms are included.

EPA 6010C:

Inorganics: The EPA 9060A method requires the instrument to acquire data in quadruplicate. The opening CCV and CCB were inadvertently analyzed in duplicate, rather than quadruplicate. The subsequent samples and CCV, CCB's were all analyzed in quadruplicate,

in accordance with the method. Corrective Action: None. The recovery of the opening CCV was acceptable in duplicate "mode". There was limited sample remaining for re-analysis. The client was notified.

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description	Prep DateTime	Analysis DateTime
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/30/2019 3:50:00 AM	10/30/2019 3:50:00 AM
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER		
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER		
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/30/2019 3:50:00 AM	10/30/2019 3:50:00 AM
90559	10/25/2019	ERH932	BA01828	10/24/2019 9:50:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:29:00 PM	10/29/2019 6:29:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/30/2019 11:31:00 AM	10/30/2019 11:31:00 AM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 7:25:41 PM	10/25/2019 7:25:41 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	11/5/2019 10:38:39 PM	11/5/2019 10:38:39 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	SM3500FeB	Ferrous Iron	10/25/2019 9:56:00 PM	10/25/2019 9:56:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/30/2019 5:12:00 PM	10/30/2019 5:12:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	10/30/2019 4:47:00 AM	10/30/2019 4:47:00 AM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 9:20:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/31/2019 3:15:00 PM	11/8/2019 4:26:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	SW846 9060A	9060A TOC		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	SW846 9060A	9060A TOC		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 9:41:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/30/2019 4:47:00 AM	10/30/2019 4:47:00 AM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:32:00 PM	10/29/2019 6:32:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 2:39:00 PM
90559	10/25/2019	ERH933	BA01829	10/24/2019 10:25:00 AM	WATER	SW846 9060A	9060A TOC	11/10/2019 5:57:00 PM	11/10/2019 8:22:00 PM
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 1:30:00 AM
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/30/2019 6:12:00 AM	10/30/2019 6:12:00 AM
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	RSK 175	METHANE BY RSK 175		
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	RSK 175	METHANE BY RSK 175		
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/30/2019 6:12:00 AM	10/30/2019 6:12:00 AM
90559	10/25/2019	ERH948	BA01830	10/24/2019 7:30:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/31/2019 5:15:00 PM	10/31/2019 5:15:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/30/2019 11:36:00 AM	10/30/2019 11:36:00 AM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 7:40:38 PM	10/25/2019 7:40:38 PM

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90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SM3500FeB	Ferrous Iron	10/25/2019 9:55:00 PM	10/25/2019 9:55:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/30/2019 5:14:00 PM	10/30/2019 5:14:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL	10/30/2019 12:18:00 PM	11/18/2019 2:12:53 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 1:50:00 AM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/30/2019 5:15:00 AM	10/30/2019 5:15:00 AM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 9:48:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/31/2019 3:15:00 PM	11/8/2019 5:03:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water		
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water		
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 10:01:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SW846 9060A	9060A DOC	11/5/2019 3:44:00 PM	11/6/2019 4:47:00 AM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/30/2019 5:15:00 AM	10/30/2019 5:15:00 AM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:35:00 PM	10/29/2019 6:35:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 3:01:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SM 4500-Si D	Silica W	10/30/2019 9:05:00 PM	10/30/2019 9:05:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SM 4500-Si D	SILICA W - DISSOLVED	10/30/2019 9:07:00 PM	10/30/2019 9:07:00 PM
90559	10/25/2019	ERH949	BA01831	10/24/2019 8:30:00 AM	WATER	SW846 9060A	9060A TOC	11/10/2019 5:57:00 PM	11/10/2019 8:55:00 PM
90559	10/25/2019	ERH952	BA01832	10/23/2019 9:52:00 AM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 2:10:00 AM
90559	10/25/2019	ERH952	BA01832	10/23/2019 9:52:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/30/2019 4:18:00 AM	10/30/2019 4:18:00 AM
90559	10/25/2019	ERH952	BA01832	10/23/2019 9:52:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH952	BA01832	10/23/2019 9:52:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/30/2019 4:18:00 AM	10/30/2019 4:18:00 AM
90559	10/25/2019	ERH952	BA01832	10/23/2019 9:52:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/31/2019 5:17:00 PM	10/31/2019 5:17:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM 2320B	Wetlab 2320B - Water	10/30/2019 11:41:00 AM	10/30/2019 11:41:00 AM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	10/25/2019 7:33:09 PM	10/25/2019 7:33:09 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 300.0	Wetlab 300.0 - Water	11/5/2019 10:46:08 PM	11/5/2019 10:46:08 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM3500FeB	Ferrous Iron	10/25/2019 9:57:00 PM	10/25/2019 9:57:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 353.2	EPA 353.2 - WATER	10/30/2019 5:17:00 PM	10/30/2019 5:17:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL	10/30/2019 12:18:00 PM	11/18/2019 2:17:59 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	8011	EPA 8011	10/28/2019 4:05:00 PM	10/30/2019 2:30:00 AM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER	10/31/2019 2:44:00 AM	10/31/2019 2:44:00 AM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8270D	EPA 8270D WATER	10/29/2019 12:35:00 PM	11/5/2019 10:16:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER	10/31/2019 3:15:00 PM	11/8/2019 5:22:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM3500FeB	Ferrous Iron		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM3500FeB	Ferrous Iron		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	6010C/3010A	EPA 6010C TOTAL		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8260B	EPA 8260B BTEX & 1,2-DCA WATER		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8015B-eLL	EPA 8015B TPH LIQ-LIQ	10/29/2019 12:35:00 PM	11/7/2019 10:21:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SW846 9060A	9060A DOC	11/5/2019 3:44:00 PM	11/6/2019 5:53:00 AM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8260-GAS	EPA 8260 with GAS		
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	10/31/2019 2:44:00 AM	10/31/2019 2:44:00 AM

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90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	RSK 175	METHANE BY RSK 175	10/29/2019 6:41:00 PM	10/29/2019 6:41:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	10/29/2019 12:35:00 PM	11/5/2019 3:23:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM 4500-Si D	Silica W	10/30/2019 9:05:00 PM	10/30/2019 9:05:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SM 4500-Si D	SILICA W - DISSOLVED	10/30/2019 9:08:00 PM	10/30/2019 9:08:00 PM
90559	10/25/2019	ERH953	BA01833	10/23/2019 11:45:00 AM	WATER	SW846 9060A	9060A TOC	11/10/2019 5:57:00 PM	11/10/2019 9:28:00 PM

APPL Inc.
Abbreviations and Flags


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

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

APPL - Analysis Request Form

90559

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Margie Pascua
 Phone: 808-356-5373 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 108,111,113
 RAD Screen (Y/N): Y pH (Y/N): N
 Turn Around Type: 1 WEEK

Received by: LA 
 Date Received: 10/25/19 Time: 14:31
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): 3.4,4.9,3.4°C
 Color: VFRG/J-PurBik/GB-GrY
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: _____

Comments:

PM: login and F1s to Margie.Pascua@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Wetlab: Nitrate by EPA 300 and 353.2
8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH D & O both with and w/o SGC, reverse surrogate for the SGC; analyze SGC if detections
RSK: Methane only; 8011: EDB only; \$87DC53W5: report phenol + TICs
FR: 2 labeled CDs to Margie AFTER validation; email ftp info to Margie, Stella, trommelfanger@lab-data
EDD: AECOM EQUIS EDD 2.5.3 Red Hill 87DMEE->3535A to Margie.Pascua@aecom.com & jecklund@lab-data.com




Sample Distribution:

Charges:

Invoice To:

GC: 3-\$87DC53W5, 3-\$87DMEEW5, 3-\$DOC53W5LIQ, 3-\$SIM53LIQ51, 4-\$8011
 Extractions: 3- LIQ003, 3- LIQ005, 3- MWE2MEE, 4-MWE012
 VOA: 2-\$86BTOTXDOD5W, 6-\$GASBL, 6-\$GRO86BW, 5-\$RSKMETH, 4-\$86BTOTXDCAW
 Metals: 2-\$61CDOD5W (Ca, Mg, Mn, K, Na)
 Wetlab: 3-\$232W (HCO3, CO3, ALK), 1-\$300W (NO3, CL, SO4), 3-\$35FE, 3-\$35OF, 3-\$TOCW53, 2-\$300W (NO3, BR, CL, F, SO4), 2-\$DOCW53, 2-\$SIO2, 2-\$STO2D
 Other: 2- M3010

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

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH932	BA01828W LCSD 	10/24/19 09:50	\$86BTOTXDOD5W, \$GASBL, \$GRO86BW, \$RSKMETH
2. ERH933	BA01829W LCSD 	10/24/19 10:25	\$232W (HCO3, CO3, ALK), \$300W (NO3, CL, SO4), \$35FE, \$35OF, \$86BTOTXDOD5W, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$TOCW53 -- see comments
3. ERH948	BA01830W LCSD 	10/24/19 07:30	\$8011, \$86BTOTXDCAW, \$GASBL, \$GRO86BW, \$RSKMETH

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -10 UTC
 Page 1 Client Code: AECOM-REDHILL Printed 10/30/19 4:23:41 PM Computer: APPL-LC

90559

APPL - Analysis Request Form

90559

4. ERH949

LCSD BA01831W 10/24/19 08:30



\$232W(HCO3,CO3,ALK), \$300W(NO3,BR,CL,F,SO4), \$35FE, \$35OF, \$61CDOD5W(Ca,Mg,Mn,K,Na), \$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$DOCW53, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$SIO2, \$SIO2D, \$TOCW53 -- see comments

5. ERH952

LCSD BA01832W 10/23/19 09:52



\$8011, \$86BTOTXDCAW, \$GASBL, \$GRO86BW

6. ERH953

LCSD BA01833W 10/23/19 11:45



\$232W(HCO3,CO3,ALK), \$300W(NO3,BR,CL,F,SO4), \$35FE, \$35OF, \$61CDOD5W(Ca,Mg,Mn,K,Na), \$8011, \$86BTOTXDCAW, \$87DC53W5, \$87DMEEW5, \$DOC53W5LIQ, \$DOCW53, \$GASBL, \$GRO86BW, \$RSKMETH, \$SIM53LIQ51, \$SIO2, \$SIO2D, \$TOCW53 -- see comments

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

APPL Sample Receipt Form

ARF# 90559

Sample	Container Type	Count	p
BA01828	13 VOAs - HCL	4	na
BA01829	3 PL 250mL	1	na
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	17 Amber Liter	4	na
	32 Clear VOA - H2SO4	2	na
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	na
BA01830	13 VOAs - HCL	4	na
	15 VOAs - NP	3	na
BA01831	3 PL 250mL	3	na
	6 PL 500mL - HNO3	1	1.7
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	15 VOAs - NP	3	na
	17 Amber Liter	4	na
	32 Clear VOA - H2SO4	4	na
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	na
BA01832	13 VOAs - HCL	4	na
	15 VOAs - NP	3	na
BA01833	3 PL 250mL	3	na
	6 PL 500mL - HNO3	1	1.7
	10 PL 250mL - H2SO4	1	1.7
	13 VOAs - HCL	4	na
	15 VOAs - NP	3	na
	17 Amber Liter	4	na
	32 Clear VOA - H2SO4	4	na
	38 250mL brn poly, HCl prsvd	1	1.7
	40 500mL Amber, unprsvd	3	na

Sample Container Type Count p

90559



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

CHAIN OF CUSTODY RECORD
Phone: (559) 275-2175
Fax: (559) 275-4422
coc@applinc.com

C.O.C. 108

Report to: PLEASE PRINT
Company Name: AECOM Phone: 808-356-5373
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Margie Pascua
Email: margie.pascua@aecom.com

Invoice to: PLEASE PRINT
Company Name: AECOM Phone: 808-529-7249
Address: 1001 Bishop St, Suite 1600
Honolulu, HI 96813 Fax: 808-523-8950
Attn: Mary Basano
Email: mary.basano@aecom.com; usapimaging@aecom.com

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number													Date Shipped: <u>PRELIM</u>												
		Purchase Order Number	Sampler (Signature)	No. of Containers	Matrix			8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	8630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol, TICs		8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate Sulfate Chloride	800.0 Bromide/Fluoride	8010 Total Ca Mg Mn K Na	SM4500 Total & Dissolved Silica	9050A TOC	Carrier: <u>FedEx</u>	Waybill No.:	Comments:
Sample Identification	Location				Date Collected	Time Collected	Time Zone	Aq	Sed.	Soil																	
CV18F0126 / 60571032	GM, CS, RS																										
102604	MP for GM, CS, RS																										
ERH932	Trip Blank	10/24/19	0950	HST	4	X										X											
ERH933	HOMW2353-03	10/24/19	1025	HST	16	X					X	X	X	X	X	X	X	X	X								X
<i>JM 10/24/19</i>																											

*Analyze TPH w/SGT only if TPH-d/o detected.
TPH-d/o & PAHs need liquid-liquid extraction.

Shuttle Temperature: RB: 3.0/3.4, 4.5/4.9, 3.0/3.4

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

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

Relinquished by sampler: <u>AECOM</u> <u>Sidney Mahanay</u>	Date: <u>10/24/19</u>	Time: <u>1300</u>	Received by:	Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date: <u>10/25/19</u>	Time: <u>940</u>	Received at lab by: <u>[Signature]</u>



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

CHAIN OF CUSTODY RECORD

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

C.O.C. 113

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

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number														Date Shipped: MM/DD/YY											
		Matrix			8260C BTEX, TPH-g	8260C DCA	8011 LEDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270DSIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxy ethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	353.2 Nitrate-Nitrite N		SM2320B Alkalinity	300.0 Nitrate Sulfate, Chloride	800.0 Bromide/Fluoride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	9100 PCB	9100 DOC	Carrier: FedEx	Waybill No.:	Comments:
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil																						
CV18F0126 / 60571032	MH, BL, JF																										
102604	MP for MH, BL, JF																										
Sample Identification	Location	Date Collected	Time Collected	Time Zone																							
ERH952	Trip Blank	10/23/19	0952	HST	7	X																					
ERH953	RHMW14-07	10/23/19	1145	HST	24	X																					
<p><i>SM 10/24/19</i></p>																											

Shuttle Temperature:	Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other: _____	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler: AECOM <i>Sidney Mahanay</i>	Date: <u>10/24/19</u> Time: <u>1300</u>	Received by: _____
Relinquished by:	Date: _____ Time: _____	Received by: _____
	Date: <u>10/23/19</u> Time: <u>940</u>	Received at lab by: <i>[Signature]</i>



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

CHAIN OF CUSTODY RECORD

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

C.O.C. 111

Report to: PLEASE PRINT Company Name: AECOM Phone: 808-356-5373 Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950 Attn: Margie Pascua Email: margie.pascua@aecom.com	Invoice to: PLEASE PRINT Company Name: AECOM Phone: 808-529-7249 Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax: 808-523-8950 Attn: Mary Basano Email: mary.basano@aecom.com; usapimaging@aecom.com
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Project Name/Number CV18F0126 / 60571032		Sampler (Print) SM MH, BL, JF			Analysis Requested/Method Number												Date Shipped: 10/24/19											
Purchase Order Number 102604		Sampler (Signature) MP for MH, BL, JF			No. of Containers	Matrix				8260C BTEX, TPH-g	8260C DCA	8011 EDB	8015C TPH-d/o	3630/8015C TPH-d/o w/ SGT	8270D SIM PAHs short list	8270D Phenol, TICs	8270D 2-(2-methoxyethoxy)-ethanol	RSK175M Methane	SM3500-Fe Ferrous Iron	363.2 Nitrate-Nitrite N	SM2320B Alkalinity	300.0 Nitrate, Sulfate, Chloride	800.0 Bromide/Ferride	8010 Total Ca, Mg, Mn, K, Na	SM4500 Total & Dissolved Silica	9060A TOC	9040 DO	Carrier: FedEx
Sample Identification		Location		Date Collected		Time Collected	Time Zone	Aq	Sed.	Soil																		
ERH 948	Trip Blank	10/24/19	0730	HST	7	X					X	X					X											Comments:
ERH 949	RHMW4-04	10/24/19	0830	HST	24	X					X	X	X*	X	X	X	X	X	X	X	X	X	X	X	X	X		

SM 10/24/19

Shuttle Temperature:		Turnaround Requested: Check one <input type="checkbox"/> Standard 2-3 wk <input checked="" type="checkbox"/> One week <input type="checkbox"/> 3 days <input type="checkbox"/> 24/48 Hrs. <input type="checkbox"/> Other:				Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)			
Relinquished by sampler: AECOM Sidney Mahanay	Date 10/24/19	Time 1300	Received by:	Relinquished by:	Date 10/24/19	Time 940	Received by:	Received at lab by:	

COOLER RECEIPT FORM

ARF: 90559

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 10/25/19

2) Coolers: Number of Coolers: 3

3) YES Were custody seals present and intact? How many? 6 Name/Date on seal? see below

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

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

6) YES Were cooler temperatures acceptable?

7) Serial number of certified NIST thermometer use R5 @ +0.4°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp 1: 3.0°C/ 3.4°C 2: 4.5°C/ 4.9°C 3: 3.0C/ 3.4°C 4: 5: 6: 7: 8: 9: 10: 11: 12:

Chain of custody:

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

Sample Labels:

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

Sample Containers:

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

If yes, the following were received with air bubbles:

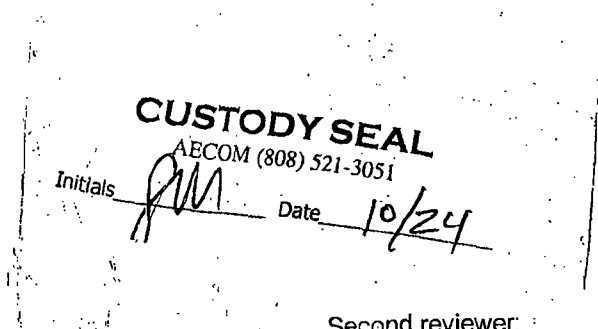
Larger than a pea: Smaller than a pea:

Preservation Hold time:

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

pH strip lot number: 90B2031 Lab notified if pH was not adequate:

Notes/Deficiencies:



Personnel receiving samples: ZG Personnel labeling samples: ZG Project manager notified: AA Name of client notified:

Second reviewer: AA Date/Time of notification 10/25/19 Date/Time of notification

SAMPLE RESULTS

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH948

Sample Collection Date: 10/24/19

ARF: 90559

APPL ID: BA01830

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	102	70-132			%	10/28/19	10/30/19

Amended Results.

Quant Method: 8011917A.M
Run #: 1025082
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 12/10/2019 1:57:26 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH949

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01831

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	104	70-132			%	10/28/19	10/30/19

Amended Results.

Quant Method: 8011917A.M
Run #: 1025083
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 12/10/2019 1:57:26 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH952

Sample Collection Date: 10/23/19

ARF: 90559

APPL ID: BA01832

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	103	70-132			%	10/28/19	10/30/19

Amended Results.

Quant Method: 8011917A.M
Run #: 1025084
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 12/10/2019 1:57:26 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8011

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90559

Sample ID: ERH953

APPL ID: BA01833

Sample Collection Date: 10/23/19

QCG: #8011-191028A-246589

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8011	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/19	10/30/19
8011	SURROGATE: 1,3-DIBROMOPROPANE	102	70-132			%	10/28/19	10/30/19

Amended Results.

Quant Method: 8011917A.M
Run #: 1025085
Instrument: Herbie
Sequence: 191025
Dilution Factor: 1
Initials: GAG

Printed: 12/10/2019 1:57:26 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH933

Sample Collection Date: 10/24/19

ARF: 90559

APPL ID: BA01829

QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	128	60-142			%	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	96.5	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107012
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/12/19 4:35:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90559

Sample ID: ERH949

APPL ID: BA01831

Sample Collection Date: 10/24/19

QCG: #DOC53-191029A-247044

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	125	60-142			%	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	95.4	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107013
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/12/19 4:35:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90559
APPL ID: BA01833
QCG: #DOC53-191029A-247044

Sample ID: ERH953

Sample Collection Date: 10/23/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-eL	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
EPA 8015B-eL	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: OCTACOSANE (S)	136	60-142			%	10/29/19	11/07/19
EPA 8015B-eL	SURROGATE: ORTHO-TERPHENYL (S)	99.0	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107014
Instrument: Apollo
Sequence: 191107
Dilution Factor: 1
Initials: LPO

Printed: 11/12/19 4:35:37 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH933

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01829

QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	93.0	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	110	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L172
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:13:16 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH949
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01831
QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	92.2	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	111	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L173
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:13:17 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH953
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01833
QCG: #SIM53-191029A-246817

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	10/29/19	11/05/19
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	90.3	39-114			%	10/29/19	11/05/19
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	106	58-120			%	10/29/19	11/05/19

Quant Method: L1028.M
Run #: 1028L174
Instrument: Linus
Sequence: L191028
Dilution Factor: 1
Initials: MA

Printed: 11/05/19 5:13:17 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90559

Sample ID: ERH933

APPL ID: BA01829

Sample Collection Date: 10/24/19

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	91.2	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	81.6	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	97.1	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	95.5	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	103	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	91.4	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y217
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH949

Sample Collection Date: 10/24/19

ARF: 90559

APPL ID: BA01831

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	83.8	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	76.3	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	95.1	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	95.8	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	102	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	85.5	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y218
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90559

Sample ID: ERH953

APPL ID: BA01833

Sample Collection Date: 10/23/19

QCG: #87DC5-191029A-246900

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2,4,6-TRIBROMOPHENO	84.4	43-140			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUORBIPHENYL (S)	75.7	44-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: 2-FLUOROPHENOL (S)	103	19-119			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: NITROBENZENE-D5 (S)	101	44-120			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: PHENOL-D6 (S)	112	10-115			%	10/29/19	11/05/19
EPA 8270D	SURROGATE: TERPHENYL-D14 (S)	86.2	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y219
Instrument: Yoda
Sequence: Y191030
Dilution Factor: 1
Initials: JPR

Printed: 11/08/19 9:45:45 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH933

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01829

QCG: #87DME-191031A-247175

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/31/19	11/08/19

Quant Method: YMEE1030.M
Run #: 1030L046
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/15/19 12:34:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH949

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01831

QCG: #87DME-191031A-247175

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/31/19	11/08/19

Quant Method: YMEE1030.M
Run #: 1030L048
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/15/19 12:34:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH953
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01833
QCG: #87DME-191031A-247175

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/L	10/31/19	11/08/19

Quant Method: YMEE1030.M
Run #: 1030L049
Instrument: Linus
Sequence: L191030M
Dilution Factor: 1
Initials: MA

Printed: 11/15/19 12:34:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH932

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01828

QCG: #86BTO-191029BT-246624

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	10/30/19	10/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	96.4	81-118			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.0	85-114			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	96.5	80-119			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	92.7	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
Run #: 1029T35
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:02:53 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH933

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01829

QCG: #86BTO-191029BT-246624

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	10/30/19	10/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	92.6	81-118			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.0	85-114			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	98.0	80-119			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	94.1	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
Run #: 1029T37
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:02:53 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH948
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01830
QCG: #86BTO-191029BT1-246625

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/30/19	10/30/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	98.5	81-118			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.8	85-114			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	98.9	80-119			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	93.1	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
Run #: 1029T40
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:00:43 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH949
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01831
QCG: #86BTO-191029BT1-246625

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/30/19	10/30/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	96.9	81-118			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.0	85-114			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	96.3	80-119			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.8	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
Run #: 1029T38
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:00:44 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90559

Sample ID: ERH952

APPL ID: BA01832

Sample Collection Date: 10/23/19

QCG: #86BTO-191029BT1-246625

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/30/19	10/30/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.4	81-118			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.1	85-114			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	101	80-119			%	10/30/19	10/30/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
Run #: 1029T36
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:00:44 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX & 1,2-DCA WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 90559

Sample ID: ERH953

APPL ID: BA01833

Sample Collection Date: 10/23/19

QCG: #86BTO-191030AL1-246611

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/31/19	10/31/19
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/31/19	10/31/19
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/31/19	10/31/19
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	111	81-118			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	103	80-119			%	10/31/19	10/31/19
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	109	89-112			%	10/31/19	10/31/19

Quant Method: L1023W.M
Run #: 1030L28
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:00:44 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH932
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01828
QCG: #GRO86-191029BT-246623

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	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	91.0	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T35
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH933
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01829
QCG: #GRO86-191029BT-246623

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	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	92.0	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T37
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH948

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: **BA01830**

QCG: #GRO86-191029BT-246623

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	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	90.8	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T40
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH949
Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01831
QCG: #GRO86-191029BT-246623

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	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	93.0	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T38
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH952
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01832
QCG: #GRO86-191029BT-246623

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	10/30/19	10/30/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.1	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T36
Instrument: Thor
Sequence: T191028
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH953

Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01833

QCG: #GRO86-191030AL-246612

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	10/31/19	10/31/19
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	10/31/19	10/31/19

Quant Method: LGAS1026.M
Run #: 1030L28
Instrument: Loki
Sequence: 191023
Dilution Factor: 1
Initials: DPO

Printed: 10/31/19 1:11:36 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH932

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01828

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R15
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90559
APPL ID: BA01829
QCG: #RSKME-191029A-246555

Sample ID: ERH933

Sample Collection Date: 10/24/19

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R16
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

ARF: 90559

Sample ID: ERH948

APPL ID: BA01830

Sample Collection Date: 10/24/19

QCG: #RSKME-191031A-246650

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/31/19	10/31/19

Quant Method: RSK1002.M
Run #: 1031R06
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH949

Sample Collection Date: 10/24/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01831

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R17
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH952
Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559
APPL ID: BA01832
QCG: #RSKME-191031A-246650

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/31/19	10/31/19

Quant Method: RSK1002.M
Run #: 1031R07
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

METHANE

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

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

Sample ID: ERH953

Sample Collection Date: 10/23/19

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 90559

APPL ID: BA01833

QCG: #RSKME-191029A-246555

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
RSK 175	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R18
Instrument: Rocky
Sequence: 191002
Dilution Factor: 1
Initials: GAG

Printed: 11/15/19 10:43:11 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

Metals Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH949

Sample Collection Date: 10/24/19

ARF: 90559

APPL ID: BA01831

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6010C/3010A	CALCIUM (CA)	8100	1000	75.0	27.5	ug/L	1	10/30/19	11/18/19
6010C/3010A	MAGNESIUM (MG)	9260	500	30.0	12.9	ug/L	1	10/30/19	11/18/19
6010C/3010A	MANGANESE (MN)	4.00 U	10.0	4.00	1.23	ug/L	1	10/30/19	11/18/19
6010C/3010A	POTASSIUM (K)	482 J	3000	500.0	220.0	ug/L	1	10/30/19	11/18/19
6010C/3010A	SODIUM (NA)	32400	5000	500.0	111.1	ug/L	1	10/30/19	11/18/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH953

Sample Collection Date: 10/23/19

ARF: 90559

APPL ID: BA01833

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6010C/3010A	CALCIUM (CA)	11400	1000	75.0	27.5	ug/L	1	10/30/19	11/18/19
6010C/3010A	MAGNESIUM (MG)	11400	500	30.0	12.9	ug/L	1	10/30/19	11/18/19
6010C/3010A	MANGANESE (MN)	15.8	10.0	4.00	1.23	ug/L	1	10/30/19	11/18/19
6010C/3010A	POTASSIUM (K)	799 J	3000	500.0	220.0	ug/L	1	10/30/19	11/18/19
6010C/3010A	SODIUM (NA)	36200	5000	500.0	111.1	ug/L	1	10/30/19	11/18/19

J = Estimated value.

Printed: 11/19/19 2:52:13 PM
APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH933

Sample Collection Date: 10/24/19

APPL ID: BA01829

ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.21	0.10	0.090	0.028	mg/L	1	10/30/19	10/30/19
SM 2320B	BICARBONATE AS CaCO ₃	49.3	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	49.3	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM3500FeB	FERROUS IRON	1.4	1.0	0.32	0.16	mg/L	1	10/25/19	10/25/19
SW846 9060A	TOTAL ORGANIC CARBON	0.29 J	0.93	0.350	0.130	mg/L	1	11/10/19	11/10/19

J = Estimated value.

Printed: 11/20/19 4:02:01 PM

APPL-F1-SC-NoMC-REG-MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH949

Sample Collection Date: 10/24/19

APPL ID: BA01831

ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.35	0.10	0.090	0.028	mg/L	1	10/30/19	10/30/19
SM 2320B	BICARBONATE AS CaCO ₃	53.4	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	53.4	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 4500-Si D	SILICA W	55.0	5.0	4.00	2.65	mg/L	5	10/30/19	10/30/19
SM 4500-Si D	DISSOLVED SILICA	54.8	5.0	4.00	2.65	mg/L	5	10/30/19	10/30/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/25/19	10/25/19
SW846 9060A	DISSOLVED ORGANIC CARB	0.34 J	0.93	0.350	0.130	mg/L	1	11/05/19	11/06/19
SW846 9060A	TOTAL ORGANIC CARBON	0.26 J	0.93	0.350	0.130	mg/L	1	11/10/19	11/10/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH953

Sample Collection Date: 10/23/19

APPL ID: BA01833

ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 353.2	NITRATE-NITRITE-N	0.39	0.10	0.090	0.028	mg/L	1	10/30/19	10/30/19
SM 2320B	BICARBONATE AS CaCO ₃	61.1	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	CARBONATE AS CaCO ₃	1.70 U	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 2320B	TOTAL ALKALINITY AS CaCO ₃	61.1	2.0	1.70	0.85	mg/L	1	10/30/19	10/30/19
SM 4500-Si D	SILICA W	63.1	5.0	4.00	2.65	mg/L	5	10/30/19	10/30/19
SM 4500-Si D	DISSOLVED SILICA	61.1	5.0	4.00	2.65	mg/L	5	10/30/19	10/30/19
SM3500FeB	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	1	10/25/19	10/25/19
SW846 9060A	DISSOLVED ORGANIC CARB	0.40 J	0.93	0.350	0.130	mg/L	1	11/05/19	11/06/19
SW846 9060A	TOTAL ORGANIC CARBON	0.32 J	0.93	0.350	0.130	mg/L	1	11/10/19	11/10/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua
Project: 60571032 CV18F0126 Red Hill Fuel Storage
Sample ID: ERH933
Sample Collection Date: 10/24/19

APPL ID: BA01829
ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	96.8	2.0	0.40	0.16	mg/L	2	11/05/19	11/05/19
EPA 300.0	NITRATE	0.98	0.5	0.18	0.04	mg/L	1	10/25/19	10/25/19
EPA 300.0	SULFATE	29.0	1.0	0.20	0.09	mg/L	1	10/25/19	10/25/19

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

Sample ID: ERH949
Sample Collection Date: 10/24/19

APPL ID: BA01831
ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	BROMIDE	0.13 J	0.5	0.16	0.05	mg/L	1	10/25/19	10/25/19
EPA 300.0	CHLORIDE	42.6	1.0	0.20	0.08	mg/L	1	10/25/19	10/25/19
EPA 300.0	FLUORIDE	0.09 U	0.1	0.09	0.08	mg/L	1	10/25/19	10/25/19
EPA 300.0	NITRATE	1.4	0.5	0.18	0.04	mg/L	1	10/25/19	10/25/19
EPA 300.0	SULFATE	11.0	1.0	0.20	0.09	mg/L	1	10/25/19	10/25/19

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Margie Pascua

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH953

Sample Collection Date: 10/23/19

APPL ID: BA01833

ARF: 90559

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
EPA 300.0	CHLORIDE	58.0	2.0	0.40	0.16	mg/L	2	11/05/19	11/05/19
EPA 300.0	BROMIDE	0.15 J	0.5	0.16	0.05	mg/L	1	10/25/19	10/25/19
EPA 300.0	FLUORIDE	0.09 U	0.1	0.09	0.08	mg/L	1	10/25/19	10/25/19
EPA 300.0	NITRATE	1.6	0.5	0.18	0.04	mg/L	1	10/25/19	10/25/19
EPA 300.0	SULFATE	9.6	1.0	0.20	0.09	mg/L	1	10/25/19	10/25/19

J = Estimated value.

Printed: 11/19/19 3:26:22 PM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

8011

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER

SDG No: 90559
Date Analyzed: 10/29/19
Instrument: Herbie

APPL ID.	Client Sample No.	SURROGATE: 1,3-DIBROMOPROPANE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191028A-BLK	Blank	70-132	104				
191028A-LCS	Lab Control Spike	70-132	110				
191028A-LCSD	Lab Control SpikeD	70-132	109				
BA01830	ERH948	70-132	102				
BA01831	ERH949	70-132	104				
BA01832	ERH952	70-132	103				
BA01833	ERH953	70-132	102				

Comments: Batch: #8011-191028A

8011

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
Blank ID: 191028A-BLK

SDG No: 90559
Date Analyzed: 10/29/19
Instrument: Herbie
Time Analyzed: 2049

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028A-BLK	Blank	1025068	10/29/19 2049
191028A-LCS	Lab Control Spike	1025069	10/29/19 2109
191028A-LCSD	Lab Control SpikeD	1025070	10/29/19 2130
BA01830	ERH948	1025082	10/30/19 0130
BA01831	ERH949	1025083	10/30/19 0150
BA01832	ERH952	1025084	10/30/19 0210
BA01833	ERH953	1025085	10/30/19 0230

Comments: Batch: #8011-191028A

Method Blank
EPA 8011

Blank Name/QCG: **191028W-01661 - 246589**
Batch ID: #8011-191028A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	EDB	0.019 U	0.02	0.019	0.010	ug/L	10/28/2019	10/29/2019
BLANK	SURROGATE: 1,3-DIBROMOPRO	104	70-132			%	10/28/2019	10/29/2019

Quant Method: 8011917A.M
Run #: 1025068
Instrument: Herbie
Sequence: 191025
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 12/10/2019 1:53:50 PM

8011

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Herbie

LCS ID: 191028A-LCS

Time Analyzed: 2109

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191028A-BLK	Blank	1025068	10/29/19 2049
191028A-LCS	Lab Control Spike	1025069	10/29/19 2109
191028A-LCSD	Lab Control SpikeD	1025070	10/29/19 2130
BA01830	ERH948	1025082	10/30/19 0130
BA01831	ERH949	1025083	10/30/19 0150
BA01832	ERH952	1025084	10/30/19 0210
BA01833	ERH953	1025085	10/30/19 0230

Comments: Batch: #8011-191028A

Printed: 11/14/19 2:56:46 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8011

APPL ID: 191028W-01661 LCS - 246589
 Batch ID: #8011-191028A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
EDB	0.250	0.271	0.265	108	106	60-140	2.2	25
SURROGATE: 1,3-DIBROMOPROPANE (	0.250	0.275	0.273	110	109	70-132		

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	8011917A.M	8011917A.M
Extraction Date :	10/28/19	10/28/19
Analysis Date :	10/29/19	10/29/19
Instrument :	Herbie	Herbie
Run :	1025069	1025070
Initials :	GAG	

EPA 8015B-eLL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/07/19

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	60-142	102		56-125	98.0	
191029A-LCS	Lab Control Spike	60-142	109		56-125	87.7	
191029A-LCSD	Lab Control SpikeD	60-142	115		56-125	88.7	
BA01829	ERH933	60-142	128		56-125	96.5	
BA01831	ERH949	60-142	125		56-125	95.4	
BA01833	ERH953	60-142	136		56-125	99.0	

Comments: Batch: #DOC53-191029A

Printed: 11/12/19 4:35:57 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8015B-eL

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/07/19

Matrix: WATER

Instrument: Apollo

Blank ID: 191029A-BLK

Time Analyzed: 1837

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191029A-BLK	Blank	1107003	11/07/19 1837
191029A-LCS	Lab Control Spike	1107004	11/07/19 1858
191029A-LCSD	Lab Control SpikeD	1107005	11/07/19 1918
BA01829	ERH933	1107012	11/07/19 2141
BA01831	ERH949	1107013	11/07/19 2201
BA01833	ERH953	1107014	11/07/19 2221

Comments: Batch: #DOC53-191029A

Printed: 11/12/19 4:35:57 PM
Form 4, Blank Summary

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **191029W-01775 - 247044**
Batch ID: #DOC53-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	25.00 U	40.0	25.00	13.07	ug/L	10/29/19	11/07/19
BLANK	OIL (C24-C40)	40.00 U	40.0	40.00	5.54	ug/L	10/29/19	11/07/19
BLANK	SURROGATE: OCTACOSANE (S)	102	60-142			%	10/29/19	11/07/19
BLANK	SURROGATE: ORTHO-TERPHEN	98.0	56-125			%	10/29/19	11/07/19

Quant Method: DOC0911.M
Run #: 1107003
Instrument: Apollo
Sequence: 191107
Initials: LPO

GC SC-Blank-REG MDLs-DOD
Printed: 11/12/19 4:35:36 PM

EPA 8015B-eL

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/07/19

Matrix: WATER

Instrument: Apollo

LCS ID: 191029A-LCS

Time Analyzed: 1858

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1107003	11/07/19 1837
191029A-LCS	Lab Control Spike	1107004	11/07/19 1858
191029A-LCSD	Lab Control SpikeD	1107005	11/07/19 1918
BA01829	ERH933	1107012	11/07/19 2141
BA01831	ERH949	1107013	11/07/19 2201
BA01833	ERH953	1107014	11/07/19 2221

Comments: Batch: #DOC53-191029A

Printed: 11/12/19 4:35:58 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **191029W-01775 LCS - 247044**
 Batch ID: #DOC53-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	1250	1100	1110	88.0	88.8	36-132	0.90	30
OIL (C24-C40)	1250	1290	1320	103	106	41-113	2.3	30

SURROGATE: OCTACOSANE (S)	75.0	81.8	86.4	109	115	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	75.0	65.8	66.5	87.7	88.7	56-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	DOC0911.M	DOC0911.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/07/19	11/07/19
Instrument :	Apollo	Apollo
Run :	1107004	1107005
Initials :	LPO	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	39-114	86.3		58-120	103	
191029A-LCS	Lab Control Spike	39-114	87.5		58-120	100	
191029A-LCSD	Lab Control SpikeD	39-114	70.2		58-120	78.9	
BA01829	ERH933	39-114	93.0		58-120	110	
BA01831	ERH949	39-114	92.2		58-120	111	
BA01833	ERH953	39-114	90.3		58-120	106	

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:13:41 PM
Form 2 & 8, Surrogate Recovery Summary

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

Blank ID: 191029A-BLK

Time Analyzed: 1031

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1028L163	11/05/19 1031
191029A-LCS	Lab Control Spike	1028L164	11/05/19 1053
191029A-LCSD	Lab Control SpikeD	1028L165	11/05/19 1204
BA01829	ERH933	1028L172	11/05/19 1439
BA01831	ERH949	1028L173	11/05/19 1501
BA01833	ERH953	1028L174	11/05/19 1523

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:13:42 PM
Form 4, Blank Summary

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **191029W-01775 - 246817**
Batch ID: #SIM53-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	10/29/19	11/05/19
BLANK	SURROGATE: 2-METHYLNAPHT	86.3	39-114			%	10/29/19	11/05/19
BLANK	SURROGATE: FLUORANTHENE-	103	58-120			%	10/29/19	11/05/19

Quant Method:L1028.M
Run #:1028L163
Instrument:Linus
Sequence:L191028
Initials:MA

GC SC-Blank-REG MDLs-DOD
Printed: 11/05/19 5:13:15 PM

8270D-SIM

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Linus

LCS ID: 191029A-LCS

Time Analyzed: 1053

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1028L163	11/05/19 1031
191029A-LCS	Lab Control Spike	1028L164	11/05/19 1053
191029A-LCSD	Lab Control SpikeD	1028L165	11/05/19 1204
BA01829	ERH933	1028L172	11/05/19 1439
BA01831	ERH949	1028L173	11/05/19 1501
BA01833	ERH953	1028L174	11/05/19 1523

Comments: Batch: #SIM53-191029A

Printed: 11/05/19 5:13:43 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D SIM LIQ-LIQ

APPL ID: 191029W-01775 LCS - 246817
 Batch ID: #SIM53-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	6.25	5.92	4.66	94.7	74.6	41-115	23.8 #	20
2-METHYLNAPHTHALENE	6.25	6.04	4.77	96.6	76.3	39-114	23.5 #	20
NAPHTHALENE	6.25	6.08	4.79	97.3	76.6	43-114	23.7 #	20
SURROGATE: 2-METHYLNAPHTHALEN	6.25	5.47	4.39	87.5	70.2	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	6.25	6.28	4.93	100	78.9	58-120		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	L1028.M	L1028.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/05/19	11/05/19
Instrument :	Linus	Linus
Run :	1028L164	1028L165
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1028L002.D

SDG No: _____
 Date Analyzed: 10/28/19
 Instrument: Linus
 Time Analyzed: 10:20

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 SIM 10/28/19(2)	1028L004.D	10/28/19 12:26
2		0.1 SIM 10/28/19	1028L005.D	10/28/19 12:51
3		0.2 SIM 10/28/19	1028L006.D	10/28/19 13:13
4		0.5 SIM 10/28/19	1028L007.D	10/28/19 13:35
5		1 SIM 10/28/19	1028L008.D	10/28/19 13:57
6		20 SIM 10/28/19	1028L009.D	10/28/19 14:19
7		50 SIM 10/28/19	1028L010.D	10/28/19 14:42
8		100 SIM 10/28/19	1028L011.D	10/28/19 15:04
9		SS SIM 10/28/19	1028L012.D	10/28/19 15:55
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.1% of mass 198	44.0
68 0 - 2.05% of mass 69	0.0
70 0 - 2% of mass 69	0.3
127 10 - 80% of mass 198	66.3
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.8
275 10 - 60% of mass 198	23.0
365 1 - 100% of mass 198	3.1
441 0.01 - 24% of mass 442	15.5
442 50 - 500% of mass 198	95.8
443 15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 90559
Matrix: Water
ID: 1028L161.D

SDG No: 90559
Date Analyzed: 11/05/19
Instrument: Linus
Time Analyzed: 9:37

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	5 SIM 10/28/19 (1)	1028L162.D	11/05/19 9:53
2	Blank	191029A BLK 1/800	11/05/19 10:31
3	Lab Control Spike	191029A LCS-2 1/800	11/05/19 10:53
4	Lab Control SpikeD	191029A LCSD-2 1/800	11/05/19 12:04
5	ERH933	BA01829W11 1/800	11/05/19 14:39
6	ERH949	BA01831W17 1/800	11/05/19 15:01
7	ERH953	BA01833W14 1/800	11/05/19 15:23
8	5 SIM 10/28/19 (1)	1028L176.D	11/05/19 16:00
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.1% of mass 198	<u>47.1</u>
68 0 - 2.05% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.3</u>
127 10 - 80% of mass 198	<u>61.5</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.6</u>
275 10 - 60% of mass 198	<u>22.1</u>
365 1 - 100% of mass 198	<u>3.2</u>
441 0.01 - 24% of mass 442	<u>17.4</u>
442 50 - 500% of mass 198	<u>86.3</u>
443 15 - 24% of mass 442	<u>19.0</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.

Contract: _____

Lab Code: _____

SDG No.: _____

Lab File ID (Standard): 1028L162.D

Date Analyzed: 5 Nov 19 9:53

Instrument ID: Linus

Time Analyzed: 5 Nov 19 9:53

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		46666	4.27	18912	6.27	32761	7.98
UPPER LIMIT		93332	4.44	37824	6.44	65522	8.15
LOWER LIMIT		23333	4.10	9456	6.10	16381	7.81
SAMPLE NO.							
01	191029A BLK 1/800	44857	4.27	18050	6.27	31808	7.98
02	191029A LCS-2 1/800	43683	4.27	17918	6.27	31966	7.98
03	191029A LCSD-2 1/800	45280	4.27	18710	6.27	33144	7.99
04	BA01829W11 1/800	42437	4.27	17533	6.27	31161	7.99
05	BA01831W17 1/800	42358	4.27	17196	6.27	30344	7.99
06	BA01833W14 1/800	42783	4.27	17300	6.27	30992	7.99
07	5 SIM 10/28/19 (1)	42309	4.29	17180	6.27	30616	7.99
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): 1028L162.D Date Analyzed: 5 Nov 19 9:53
 Instrument ID: Linus Time Analyzed: 5 Nov 19 9:53
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	40179	11.10	42489	13.53		
	UPPER LIMIT	80358	11.27	84978	13.70		
	LOWER LIMIT	20090	10.93	21245	13.36		
	SAMPLE NO.						
01	191029A BLK 1/800	38127	11.11	40362	13.53		
02	191029A LCS-2 1/800	38171	11.10	40236	13.53		
03	191029A LCSD-2 1/800	39090	11.11	40700	13.53		
04	BA01829W11 1/800	38122	11.11	40150	13.53		
05	BA01831W17 1/800	37919	11.11	39306	13.53		
06	BA01833W14 1/800	38146	11.11	38463	13.53		
07	5 SIM 10/28/19 (1)	37162	11.11	38169	13.53		
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER

SDG No: 90559
Date Analyzed: 11/05/19
Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2,4,6-TRIBROMOPHENOL (S)			SURROGATE: 2-FLUORBIPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	43-140	84.3		44-119	75.8	
191029A-LCS	Lab Control Spike	43-140	86.0		44-119	75.4	
191029A-LCSD	Lab Control SpikeD	43-140	90.8		44-119	79.7	
BA01829	ERH933	43-140	91.2		44-119	81.6	
BA01831	ERH949	43-140	83.8		44-119	76.3	
BA01833	ERH953	43-140	84.4		44-119	75.7	

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:54:06 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: 2-FLUOROPHENOL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	19-119	88.8		44-120	87.3	
191029A-LCS	Lab Control Spike	19-119	86.4		44-120	81.6	
191029A-LCSD	Lab Control SpikeD	19-119	88.8		44-120	88.0	
BA01829	ERH933	19-119	97.1		44-120	95.5	
BA01831	ERH949	19-119	95.1		44-120	95.8	
BA01833	ERH953	19-119	103		44-120	101	

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:54:07 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

APPL ID.	Client Sample No.	SURROGATE: PHENOL-D6 (S)			SURROGATE: TERPHENYL-D14 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029A-BLK	Blank	10-115	92.2		50-134	89.5	
191029A-LCS	Lab Control Spike	10-115	92.0		50-134	87.2	
191029A-LCSD	Lab Control SpikeD	10-115	94.4		50-134	88.0	
BA01829	ERH933	10-115	103		50-134	91.4	
BA01831	ERH949	10-115	102		50-134	85.5	
BA01833	ERH953	10-115	112		50-134	86.2	

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:54:07 AM
Form 2 & 8, Surrogate Recovery Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

Blank ID: 191029A-BLK

Time Analyzed: 1127

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-BLK	Blank	1030Y196	11/05/19 1127
191029A-LCS	Lab Control Spike	1030Y197	11/05/19 1155
191029A-LCSD	Lab Control SpikeD	1030Y198	11/05/19 1224
BA01829	ERH933	1030Y217	11/05/19 2120
BA01831	ERH949	1030Y218	11/05/19 2148
BA01833	ERH953	1030Y219	11/05/19 2216

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:54:09 AM
Form 4, Blank Summary

Method Blank
EPA 8270D WATER

Blank Name/QCG: **191029W-01775 - 246900**
Batch ID: #87DC5-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	PHENOL	4.00 U	5.0	4.00	1.00	ug/L	10/29/19	11/05/19
BLANK	SURROGATE: 2,4,6-TRIBROMOP	84.3	43-140			%	10/29/19	11/05/19
BLANK	SURROGATE: 2-FLUORBIPHENY	75.8	44-119			%	10/29/19	11/05/19
BLANK	SURROGATE: 2-FLUOROPHENO	88.8	19-119			%	10/29/19	11/05/19
BLANK	SURROGATE: NITROBENZENE-	87.3	44-120			%	10/29/19	11/05/19
BLANK	SURROGATE: PHENOL-D6 (S)	92.2	10-115			%	10/29/19	11/05/19
BLANK	SURROGATE: TERPHENYL-D14 (	89.5	50-134			%	10/29/19	11/05/19

Quant Method: Y1015NC.M
Run #: 1030Y196
Instrument: Yoda
Sequence: Y191030
Initials: JPR

GC SC-Blank-REG MDLs-DOD
Printed: 11/08/19 9:45:55 AM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Yoda

LCS ID: 191029A-LCS

Time Analyzed: 1155

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191029A-BLK	Blank	1030Y196	11/05/19 1127
191029A-LCS	Lab Control Spike	1030Y197	11/05/19 1155
191029A-LCSD	Lab Control Spiked	1030Y198	11/05/19 1224
BA01829	ERH933	1030Y217	11/05/19 2120
BA01831	ERH949	1030Y218	11/05/19 2148
BA01833	ERH953	1030Y219	11/05/19 2216

Comments: Batch: #87DC5-191029A

Printed: 11/08/19 9:54:11 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D WATER

APPL ID: 191029W-01775 LCS - 246900
 Batch ID: #87DC5-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PHENOL	62.5	57.6	58.9	92.2	94.2	10-115	2.2	20
SURROGATE: 2,4,6-TRIBROMOPHENOL	250	215	227	86.0	90.8	43-140		
SURROGATE: 2-FLUORBIPHENYL (S)	125	94.2	99.6	75.4	79.7	44-119		
SURROGATE: 2-FLUOROPHENOL (S)	250	216	222	86.4	88.8	19-119		
SURROGATE: NITROBENZENE-D5 (S)	125	102	110	81.6	88.0	44-120		
SURROGATE: PHENOL-D6 (S)	250	230	236	92.0	94.4	10-115		
SURROGATE: TERPHENYL-D14 (S)	125	109	110	87.2	88.0	50-134		

Comments:

Primary	SPK	DUP
Quant Method :	Y1015NC.M	Y1015NC.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	11/05/19	11/05/19
Instrument :	Yoda	Yoda
Run :	1030Y197	1030Y198
Initials :	JPR	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Soil
 ID: 1015Y002.D

SDG No: _____
 Date Analyzed: 10/15/19
 Instrument: Yoda
 Time Analyzed: 8:30

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		4ug/ml 8270 10/11/19	1015Y004.D	10/15/19 10:16
2		5ug/ml 8270 10/11/19	1015Y005.D	10/15/19 10:44
3		10ug/ml 8270 10/11/1	1015Y006.D	10/15/19 11:13
4		20ug/ml 8270 10/11/1	1015Y007.D	10/15/19 11:41
5		40ug/ml 8270 10/11/1	1015Y008.D	10/15/19 12:09
6		60ug/ml 8270 10/11/1	1015Y009.D	10/15/19 12:38
7		80ug/ml 8270 10/11/1	1015Y010.D	10/15/19 13:06
8		100ug/ml 8270 10/11/1	1015Y011.D	10/15/19 13:35
9		50ug/ml 8270 10/11/1	1015Y013.D	10/15/19 14:58
10		SS 8270 10/11/19	1015Y014.D	10/15/19 15:26
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 9.95 - 80.04% of mass 198	24.2
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.2
127 10 - 80% of mass 198	40.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.8
275 10 - 60% of mass 198	34.5
365 1 - 100% of mass 198	4.9
441 0.01 - 24% of mass 442	16.3
442 50 - 500% of mass 198	163.6
443 15 - 24% of mass 442	19.6

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 90559
 Matrix: Water
 ID: 1030Y194.D

SDG No: 90559
 Date Analyzed: 11/05/19
 Instrument: Yoda
 Time Analyzed: 10:36

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50ug/ml 8270 10/24/1	1030Y195.D	11/05/19 10:52
2	Blank	191029A BLK 1/800	11/05/19 11:27
3	Lab Control Spike	191029A LCS-1 1/800	11/05/19 11:55
4	Lab Control SpikeD	191029A LCSD-1 1/800	11/05/19 12:24
5	ERH933	BA01829W11 1/800	11/05/19 21:20
6	ERH949	BA01831W17 1/800	11/05/19 21:48
7	ERH953	BA01833W14 1/800	11/05/19 22:16
8	50ug/ml 8270 10/24/1	1030Y220.D	11/05/19 22:45
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17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	25.7
68 0 - 2% of mass 69	0.0
70 0 - 2% of mass 69	0.5
127 10 - 80% of mass 198	42.4
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	7.0
275 10 - 60% of mass 198	34.5
365 1 - 100% of mass 198	4.5
441 0.01 - 24% of mass 442	16.6
442 50 - 500% of mass 198	154.7
443 15 - 24% of mass 442	19.4

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1030Y195.D Date Analyzed: 5 Nov 19 10:52
 Instrument ID: Yoda Time Analyzed: 5 Nov 19 10:52
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Napthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		174147	5.52	676049	6.95	414742	8.97
UPPER LIMIT		348294	5.69	1352098	7.12	829484	9.14
LOWER LIMIT		87074	5.35	338025	6.78	207371	8.80
SAMPLE NO.							
01	191029A BLK 1/800	140492	5.52	561979	6.94	418337	8.97
02	191029A LCS-1 1/800	141387	5.52	572016	6.95	404386	8.97
03	191029A LCSD-1 1/800	138377	5.52	529852	6.96	384813	8.97
04	BA01829W11 1/800	147570	5.52	577999	6.95	441037	8.97
05	BA01831W17 1/800	148061	5.52	573436	6.95	470571	8.97
06	BA01833W14 1/800	126958	5.52	518877	6.95	453956	8.97
07	50ug/ml 8270 10/24/19	165446	5.52	635668	6.95	379878	8.97
08							
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20							
21							
22							

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

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

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1030Y195.D Date Analyzed: 5 Nov 19 10:52
 Instrument ID: Yoda Time Analyzed: 5 Nov 19 10:52
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	907962	10.70	1087990	13.78	1195400	15.67
UPPER LIMIT	1815924	10.87	2175980	13.95	2390800	15.84
LOWER LIMIT	453981	10.53	543995	13.61	597700	15.50
SAMPLE NO.						
01 191029A BLK 1/800	873218	10.70	972890	13.78	1125240	15.67
02 191029A LCS-1 1/800	828621	10.70	956790	13.79	1060390	15.67
03 191029A LCSD-1 1/800	831873	10.70	950487	13.79	1063530	15.67
04 BA01829W11 1/800	969012	10.69	1044210	13.79	1161540	15.66
05 BA01831W17 1/800	1042220	10.70	1099690	13.79	1228800	15.66
06 BA01833W14 1/800	975300	10.69	1061760	13.78	1174920	15.66
07 50ug/ml 8270 10/24/19	830093	10.70	972758	13.78	1066690	15.67
08						
09						
10						
11						
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/08/19

Matrix: WATER

Instrument: Linus

Blank ID: 191031A-BLK

Time Analyzed: 1421

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-BLK	Blank	1030L043	11/08/19 1421
191031A-LCS	Lab Control Spike	1030L044	11/08/19 1549
BA01829	ERH933	1030L046	11/08/19 1626
191031A-LCSD	Lab Control SpikeD	1030L047	11/08/19 1645
BA01831	ERH949	1030L048	11/08/19 1703
BA01833	ERH953	1030L049	11/08/19 1722

Comments: Batch: #87DME-191031A

Printed: 11/15/19 12:34:48 PM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **191031W-01829 - 247175**
Batch ID: #87DME-191031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	10/31/19	11/08/19

Quant Method: YMEE1030.M
Run #: 1030L043
Instrument: Linus
Sequence: L191030M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 11/15/19 12:34:41 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/08/19

Matrix: WATER

Instrument: Linus

LCS ID: 191031A-LCS

Time Analyzed: 1549

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-BLK	Blank	1030L043	11/08/19 1421
191031A-LCS	Lab Control Spike	1030L044	11/08/19 1549
BA01829	ERH933	1030L046	11/08/19 1626
191031A-LCSD	Lab Control SpikeD	1030L047	11/08/19 1645
BA01831	ERH949	1030L048	11/08/19 1703
BA01833	ERH953	1030L049	11/08/19 1722

Comments: Batch: #87DME-191031A

Printed: 11/15/19 12:34:49 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries
EPA 8270D MODIFIED WATER

APPL ID: 191031W-01829 LCS - 247175
 Batch ID: #87DME-191031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	92.2	82.6	115	103	30-130	11.0	20

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	YMEE1030.M	YMEE1030.M
Extraction Date :	10/31/19	10/31/19
Analysis Date :	11/08/19	11/08/19
Instrument :	Linus	Linus
Run :	1030L044	1030L047
Initials :	MA	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1030L002.D

SDG No: _____
Date Analyzed: 10/31/19
Instrument: Linus
Time Analyzed: 9:39

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	50 2MEE 4/30/19	1030L004.D	10/31/19 11:50
2	100 2MEE 4/30/19	1030L005.D	10/31/19 12:10
3	200 2MEE 4/30/19	1030L006.D	10/31/19 12:29
4	400 2MEE 4/30/19 not	1030L007.D	10/31/19 12:49
5	500 2MEE 4/30/19	1030L008.D	10/31/19 13:07
6	600 2MEE 4/30/19	1030L009.D	10/31/19 13:25
7	800 2MEE 4/30/19	1030L010.D	10/31/19 13:43
8	1000 2MEE 4/30/19	1030L011.D	10/31/19 14:02
9	SS 2MEE 4/30/19	1030L012.D	10/31/19 14:40
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21			
22			

m/e

51 9.95 - 80.04% of mass 198	47.5
68 0 - 2.04% of mass 69	0.0
70 0 - 2.04% of mass 69	0.6
127 10 - 80% of mass 198	64.9
197 0 - 2% of mass 198	0.0
198 100 - 100% of mass 198.1	100.0
199 5 - 9% of mass 198	6.2
275 10 - 60% of mass 198	21.7
365 1 - 100% of mass 198	3.2
441 0.01 - 24% of mass 442	14.5
442 50 - 500% of mass 198.1	95.4
443 15 - 24% of mass 442	18.6

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1030L014.D

SDG No: _____
 Date Analyzed: 11/01/19
 Instrument: Linus
 Time Analyzed: 15:17

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	SS 2MEE 11/1/19	1030L016.D	11/01/19 17:11
2			
3			
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5			
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14			
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17			
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19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>50.2</u>
68 0 - 2.04% of mass 69	<u>0.0</u>
70 0 - 2.04% of mass 69	<u>0.7</u>
127 10 - 80% of mass 198	<u>65.2</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>7.0</u>
275 10 - 60% of mass 198	<u>22.3</u>
365 1 - 100% of mass 198	<u>3.1</u>
441 0.01 - 24% of mass 442	<u>18.5</u>
442 50 - 500% of mass 198	<u>81.1</u>
443 15 - 24% of mass 442	<u>19.7</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1030L041.D

SDG No: _____
 Date Analyzed: 11/08/19
 Instrument: Linus
 Time Analyzed: 12:30

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	500 2MEE 4/30/19	1030L042.D	11/08/19 13:13	
2	Blank	191031A BLK 2/500	1030L043.D	11/08/19 14:21
3	Lab Control Spike	191031A LCS-1 2/500	1030L044.D	11/08/19 15:49
4		BA01829W08 2/500	1030L046.D	11/08/19 16:26
5	Lab Control Spiked	191031A LCSD-1 2/500	1030L047.D	11/08/19 16:45
6		BA01831W11 2/500	1030L048.D	11/08/19 17:03
7		BA01833W12 2/500	1030L049.D	11/08/19 17:22
8		500 2MEE 4/30/19	1030L061.D	11/08/19 21:02
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22				

m/e

51	9.95 - 80.04% of mass 198	46.6
68	0 - 2.04% of mass 69	0.0
70	0 - 2.04% of mass 69	0.6
127	10 - 80% of mass 198	60.1
197	0 - 2% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	22.2
365	1 - 100% of mass 198	3.6
441	0.01 - 24% of mass 442	17.0
442	50 - 500% of mass 198	82.6
443	15 - 24% of mass 442	20.2

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.

Contract: _____

Lab Code: _____

SDG No.: _____

Lab File ID (Standard): 1030L042.DDate Analyzed: 8 Nov 19 13:13Instrument ID: LinusTime Analyzed: 8 Nov 19 13:13

GC Column: _____

ID: _____ Heated Purge: (Y/N) _____

		1,4-dichlorobenzene-D4(IS)		Naphthalene-D8(IS)		Acenaphthene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		742292	3.67	3312060	4.62	1556560	6.01
UPPER LIMIT		1484584	3.84	6624120	4.79	3113120	6.18
LOWER LIMIT		371146	3.50	1656030	4.45	778280	5.84
SAMPLE NO.							
01	191031A BLK 2/500	699122	3.67	3106330	4.62	1436560	6.01
02	191031A LCS-1 2/500	835190	3.66	3596710	4.62	1685480	6.01
03	BA01829W08 2/500	713657	3.67	3015440	4.62	1385130	6.01
04	191031A LCSD-1 2/500	968441	3.66	4015250	4.62	1942620	6.01
05	BA01831W11 2/500	650281	3.66	2611270	4.62	1342460	6.01
06	BA01833W12 2/500	698575	3.66	2888160	4.62	1372750	6.01
07	500 2MEE 4/30/19	772424	3.67	3311190	4.61	1654190	6.01
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22							

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = -50% of internal standard area.

RT UPPER LIMIT = +0.17 minutes of internal standard RT

RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.

Contract: _____

Lab Code: _____

SDG No.: _____

Lab File ID (Standard): 1030L042.DDate Analyzed: 8 Nov 19 13:13Instrument ID: LinusTime Analyzed: 8 Nov 19 13:13

GC Column: _____

ID: _____ Heated Purge: (Y/N) _____

	Phenanthrene-D10(IS)		Chrysene-D12(IS)		Perylene-D12(IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	2759130	7.22	2199350	9.42	2536270	10.65	
UPPER LIMIT	5518260	7.39	4398700	9.59	5072540	10.82	
LOWER LIMIT	1379565	7.05	1099675	9.25	1268135	10.48	
SAMPLE NO.							
01 191031A BLK 2/500	2646760	7.22	2042230	9.44	2139010	10.68	
02 191031A LCS-1 2/500	2974820	7.22	2366380	9.43	2671220	10.66	
03 BA01829W08 2/500	2599400	7.22	2209890	9.40	2265790	10.59	
04 191031A LCSD-1 2/500	3543240	7.22	2703110	9.41	3165690	10.63	
05 BA01831W11 2/500	2560700	7.22	1999260	9.40	2136440	10.59	
06 BA01833W12 2/500	2687420	7.22	2120570	9.39	2116810	10.57	
07 500 2MEE 4/30/19	3011210	7.22	2583760	9.39	2584580	10.57	
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20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = -50% of internal standard area.

RT UPPER LIMIT = +0.17 minutes of internal standard RT

RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

* Values outside of QC limits.

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029BT-LCS	Lab Control Spike	81-118	97.6		85-114	101	
191029BT-LCSD	Lab Control Spiked	81-118	93.6		85-114	94.8	
191029BT-BLK	Blank	81-118	100		85-114	93.1	
BA01828	ERH932	81-118	96.4		85-114	91.0	
BA01829	ERH933	81-118	92.6		85-114	92.0	

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:03:02 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029BT-LCS	Lab Control Spike	80-119	101		89-112	99.6	
191029BT-LCSD	Lab Control SpikeD	80-119	95.2		89-112	94.8	
191029BT-BLK	Blank	80-119	102		89-112	97.2	
BA01828	ERH932	80-119	96.5		89-112	92.7	
BA01829	ERH933	80-119	98.0		89-112	94.1	

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:03:02 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029BT1-LCS	Lab Control Spike	81-118	97.6		85-114	101	
191029BT1-LCSD	Lab Control SpikeD	81-118	93.6		85-114	94.8	
191029BT1-BLK	Blank	81-118	100		85-114	93.1	
BA01832	ERH952	81-118	99.4		85-114	98.1	
BA01831	ERH949	81-118	96.9		85-114	93.0	
BA01830	ERH948	81-118	98.5		85-114	90.8	

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:00:51 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029BT1-LCS	Lab Control Spike	80-119	101		89-112	99.6	
191029BT1-LCSD	Lab Control Spiked	80-119	95.2		89-112	94.8	
191029BT1-BLK	Blank	80-119	102		89-112	97.2	
BA01832	ERH952	80-119	101		89-112	101	
BA01831	ERH949	80-119	96.3		89-112	97.8	
BA01830	ERH948	80-119	98.9		89-112	93.1	

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:00:51 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191030AL1-LCS	Lab Control Spike	81-118	108		85-114	114	
191030AL1-LCSD	Lab Control Spiked	81-118	108		85-114	112	
191030AL1-BLK	Blank	81-118	112		85-114	105	
BA01833	ERH953	81-118	111		85-114	101	

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:00:52 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
191030AL1-LCS	Lab Control Spike	80-119	95.6		89-112	110	
191030AL1-LCSD	Lab Control SpikeD	80-119	96.0		89-112	106	
191030AL1-BLK	Blank	80-119	106		89-112	111	
BA01833	ERH953	80-119	103		89-112	109	

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:00:52 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

Blank ID: 191029BT-BLK

Time Analyzed: 0322

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT-LCS	Lab Control Spike	1029T29	10/30/19 0100
191029BT-LCSD	Lab Control Spiked	1029T30	10/30/19 0129
191029BT-BLK	Blank	1029T34	10/30/19 0322
BA01828	ERH932	1029T35	10/30/19 0350
BA01829	ERH933	1029T37	10/30/19 0447

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:02:58 PM
Form 4, Blank Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
Blank ID: 191029BT1-BLK

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Thor
Time Analyzed: 0322

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT1-LCS	Lab Control Spike	1029T29	10/30/19 0100
191029BT1-LCSD	Lab Control Spiked	1029T30	10/30/19 0129
191029BT1-BLK	Blank	1029T34	10/30/19 0322
BA01832	ERH952	1029T36	10/30/19 0418
BA01831	ERH949	1029T38	10/30/19 0515
BA01830	ERH948	1029T40	10/30/19 0612

Comments: Batch: #86BTO-191029BT

Method Blank
EPA 8260B BTEX & 1,2-DCA WATER

Blank Name/QCG: **191029W-01830 - 246625**
 Batch ID: #86BTO-191029BT1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/30/19	10/30/19
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/30/19	10/30/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/30/19	10/30/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/30/19	10/30/19
BLANK	SURROGATE: 1,2-DICHLOROET	100	81-118			%	10/30/19	10/30/19
BLANK	SURROGATE: 4-BROMOFLUORO	93.1	85-114			%	10/30/19	10/30/19
BLANK	SURROGATE: DIBROMOFLUOR	102	80-119			%	10/30/19	10/30/19
BLANK	SURROGATE: TOLUENE-D8 (S)	97.2	89-112			%	10/30/19	10/30/19

Quant Method: T1023W.M
 Run #: 1029T34
 Instrument: Thor
 Sequence: T191028
 Initials: DPO

GC SC-Blank-REG MDLs-DOD
 Printed: 10/31/19 1:00:53 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
Blank ID: 191030AL1-BLK

SDG No: 90559
Date Analyzed: 10/31/19
Instrument: Loki
Time Analyzed: 0050

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL1-LCS	Lab Control Spike	1030L19	10/30/19 2228
191030AL1-LCSD	Lab Control SpikeD	1030L20	10/30/19 2257
191030AL1-BLK	Blank	1030L24	10/31/19 0050
BA01833	ERH953	1030L28	10/31/19 0244

Comments: Batch: #86BTO-191030AL

Method Blank
EPA 8260B BTEX & 1,2-DCA WATER

Blank Name/QCG: **191030W-01833 - 246611**
Batch ID: #86BTO-191030AL1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	0.30 U	1.0	0.30	0.14	ug/L	10/31/19	10/31/19
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	10/31/19	10/31/19
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	10/31/19	10/31/19
BLANK	SURROGATE: 1,2-DICHLOROET	112	81-118			%	10/31/19	10/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	105	85-114			%	10/31/19	10/31/19
BLANK	SURROGATE: DIBROMOFLUOR	106	80-119			%	10/31/19	10/31/19
BLANK	SURROGATE: TOLUENE-D8 (S)	111	89-112			%	10/31/19	10/31/19

Quant Method:L1023W.M
Run #: 1030L24
Instrument:Loki
Sequence:191023
Initials:DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19,1:00:53 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
LCS ID: 191029BT-LCS

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Thor
Time Analyzed: 0100

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT-LCS	Lab Control Spike	1029T29	10/30/19 0100
191029BT-LCSD	Lab Control Spiked	1029T30	10/30/19 0129
191029BT-BLK	Blank	1029T34	10/30/19 0322
BA01828	ERH932	1029T35	10/30/19 0350
BA01829	ERH933	1029T37	10/30/19 0447

Comments: Batch: #86BTO-191029BT

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

LCS ID: 191029BT1-LCS

Time Analyzed: 0100

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT1-LCS	Lab Control Spike	1029T29	10/30/19 0100
191029BT1-LCSD	Lab Control Spiked	1029T30	10/30/19 0129
191029BT1-BLK	Blank	1029T34	10/30/19 0322
BA01832	ERH952	1029T36	10/30/19 0418
BA01831	ERH949	1029T38	10/30/19 0515
BA01830	ERH948	1029T40	10/30/19 0612

Comments: Batch: #86BTO-191029BT

Printed: 10/31/19 1:00:45 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX & 1,2-DCA WATER

APPL ID: 191030W-01830 LCS - 246625

Batch ID: #86BTO-191029BT1

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	9.90	9.04	99.0	90.4	73-128	9.1	20
BENZENE	10.00	9.62	9.13	96.2	91.3	79-120	5.2	20
ETHYLBENZENE	10.00	9.86	9.16	98.6	91.6	79-121	7.4	20
TOLUENE	10.00	9.63	9.12	96.3	91.2	80-121	5.4	20
XYLENES (TOTAL)	30.0	29.2	27.5	97.3	91.7	79-121	6.0	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	24.4	23.4	97.6	93.6	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.2	23.7	101	94.8	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	25.2	23.8	101	95.2	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	24.9	23.7	99.6	94.8	89-112		

Comments: _____

	Primary	SPK	DUP
Quant Method :	T1023W.M	T1023W.M	T1023W.M
Extraction Date :	10/30/19	10/30/19	10/30/19
Analysis Date :	10/30/19	10/30/19	10/30/19
Instrument :	Thor	Thor	Thor
Run :	1029T29	1029T30	1029T30
Initials :	DPO		

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Loki

LCS ID: 191030AL1-LCS

Time Analyzed: 2228

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL1-LCS	Lab Control Spike	1030L19	10/30/19 2228
191030AL1-LCSD	Lab Control SpikeD	1030L20	10/30/19 2257
191030AL1-BLK	Blank	1030L24	10/31/19 0050
BA01833	ERH953	1030L28	10/31/19 0244

Comments: Batch: #86BTO-191030AL

Printed: 10/31/19 1:00:45 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B BTEX & 1,2-DCA WATER

APPL ID: 191030W-01833 LCS - 246611
 Batch ID: #86BTO-191030AL1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	10.6	10.3	106	103	73-128	2.9	20
BENZENE	10.00	9.74	9.57	97.4	95.7	79-120	1.8	20
ETHYLBENZENE	10.00	12.1	11.8	121	118	79-121	2.5	20
TOLUENE	10.00	11.8	11.3	118	113	80-121	4.3	20
XYLENES (TOTAL)	30.0	33.4	32.4	111	108	79-121	3.0	20

SURROGATE: 1,2-DICHLOROETHANE-D	25.0	26.9	27.1	108	108	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	28.4	28.0	114	112	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	23.9	24.0	95.6	96.0	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	27.4	26.5	110	106	89-112		

Comments: _____

Primary	SPK	DUP
Quant Method :	L1023W.M	L1023W.M
Extraction Date :	10/30/19	10/30/19
Analysis Date :	10/30/19	10/30/19
Instrument :	Loki	Loki
Run :	1030L19	1030L20
Initials :	DPO	

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1023L04.D

SDG No: _____
 Date Analyzed: 10/23/2019
 Instrument: Loki
 Time Analyzed: 17:01

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.5ug/L VOC STD 10/2	1023L11.D	10/23/2019 19:59
2	1.0ug/L VOC STD 10/2	1023L12.D	10/23/2019 20:27
3	2.0ug/L VOC STD 10/2	1023L13.D	10/23/2019 20:56
4	5.0ug/L VOC STD 10/2	1023L14.D	10/23/2019 21:24
5	10ug/L VOC STD 10/23	1023L15.D	10/23/2019 21:53
6	20ug/L VOC STD 10/23	1023L16.D	10/23/2019 22:21
7	40ug/L VOC STD 10/23	1023L17.D	10/23/2019 22:50
8	100ug/L VOC STD 10/2	1023L18.D	10/23/2019 23:18
9	(SS)10ug/L VOC STD 1	1023L20.D	10/24/2019 0:15
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>17.9</u>
75 30 - 60% of mass 95	<u>51.6</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.8</u>
173 0 - 2% of mass 174	<u>1.9</u>
174 50 - 200% of mass 95	<u>98.4</u>
175 5 - 9% of mass 174	<u>8.2</u>
176 94.95 - 101% of mass 174	<u>95.4</u>
177 5 - 9% of mass 176	<u>7.9</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 90559
 Matrix: Water
 ID: 1030L17.D

SDG No: 90559
 Date Analyzed: 10/30/2019
 Instrument: Loki
 Time Analyzed: 21:31

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	191030 CCV/BFB 10ug/	1030L18.D	10/30/2019 22:00
2	Lab Control Spike	191030 LCS 10ug/L	1030L19.D
3	Lab Control SpikeD	191030 LCSD 10ug/L	1030L20.D
4	Blank	191030 BLK	1030L24.D
5	ERH953	BA01833W03	1030L28.D
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>16.7</u>
75 30 - 60% of mass 95	<u>51.4</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>5.3</u>
173 0 - 2% of mass 174	<u>0.0</u>
174 50 - 200% of mass 95	<u>120.9</u>
175 5 - 9% of mass 174	<u>7.6</u>
176 94.95 - 101% of mass 174	<u>97.5</u>
177 5 - 9% of mass 176	<u>6.2</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1023T00.D

SDG No: _____
 Date Analyzed: 10/23/2019
 Instrument: Thor
 Time Analyzed: 16:48

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	0.3ug/L VOC STD 10/2	1023T06.D	10/23/2019 19:32
2	0.5ug/L VOC STD 10/2	1023T07.D	10/23/2019 20:01
3	1.0ug/L VOC STD 10/2	1023T08.D	10/23/2019 20:29
4	2.0ug/L VOC STD 10/2	1023T09.D	10/23/2019 20:58
5	5.0ug/L VOC STD 10/2	1023T10.D	10/23/2019 21:26
6	10ug/L VOC STD 10/23	1023T11.D	10/23/2019 21:55
7	20ug/L VOC STD 10/23	1023T12.D	10/23/2019 22:23
8	40ug/L VOC STD 10/23	1023T13.D	10/23/2019 22:52
9	100ug/L VOC STD 10/2	1023T14.D	10/23/2019 23:20
10	(SS)10ug/L VOC STD 1	1023T16.D	10/24/2019 0:17
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50 15 - 40% of mass 95	<u>16.1</u>
75 30 - 60% of mass 95	<u>48.8</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.0</u>
173 0 - 2% of mass 174	<u>1.5</u>
174 50 - 200% of mass 95	<u>97.4</u>
175 5 - 9% of mass 174	<u>7.4</u>
176 94.9 - 100% of mass 174	<u>95.9</u>
177 5 - 9% of mass 176	<u>7.0</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 90559
 Matrix: Water
 ID: 1029T27.D

SDG No: 90559
 Date Analyzed: 10/30/2019
 Instrument: Thor
 Time Analyzed: 0:04

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	191029B CCV/LCS 10ug	1029T29.D	10/30/2019 1:00
2	Lab Control SpikeD	191029B LCSD 10ug/L	1029T30.D	10/30/2019 1:29
3	Blank	191029B BLK	1029T34.D	10/30/2019 3:22
4	ERH952	BA01832W01	1029T36.D	10/30/2019 4:18
5	ERH933	BA01829W01	1029T37.D	10/30/2019 4:47
6	ERH949	BA01831W01	1029T38.D	10/30/2019 5:15
7	ERH948	BA01830W01	1029T40.D	10/30/2019 6:12
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

50 15 - 40% of mass 95	<u>15.9</u>
75 30 - 60% of mass 95	<u>46.5</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.5</u>
173 0 - 2.05% of mass 174	<u>1.0</u>
174 50 - 200% of mass 95	<u>93.5</u>
175 5 - 9% of mass 174	<u>8.1</u>
176 95 - 101% of mass 174	<u>97.0</u>
177 5 - 9% of mass 176	<u>7.1</u>

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.

Contract: _____

Lab Code: _____

SDG No.: _____

Lab File ID (Standard): 1029T29.DDate Analyzed: 10/30/19Instrument ID: ThorTime Analyzed: 1:00

GC Column: _____

ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	139072	6.59	127016	9.74	74304	12.06
UPPER LIMIT	278144	6.76	254032	9.91	148608	12.23
LOWER LIMIT	69536	6.42	63508	9.57	37152	11.89
SAMPLE NO.						
01 191030B LCS 10ug/L	134976	6.59	122032	9.74	72248	12.07
02 BA01730W06	140608	6.59	125016	9.74	71560	12.06
03 BA01738W04	131712	6.59	121136	9.74	67712	12.06
04 BA01739W03	132224	6.59	116832	9.74	64216	12.06
05 BA01740W03	138048	6.59	130920	9.74	69512	12.06
06 BA01747W01	106376	6.60	151424	9.74	88448	12.06
07 BA01749W01	148544	6.59	132864	9.74	73936	12.06
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): 1023L17.D Date Analyzed: 10/23/19
 Instrument ID: Loki Time Analyzed: 22:50
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	256960	5.43	232256	8.99	131904	11.53	
UPPER LIMIT	513920	5.60	464512	9.16	263808	11.70	
LOWER LIMIT	128480	5.26	116128	8.82	65952	11.36	
SAMPLE NO.							
01	191030 CCV/BFB 10ug/	285632	5.42	281344	8.99	157696	11.53
02	191030 LCS 10ug/L	292736	5.42	276032	8.99	156032	11.53
03	191030 LCSD 10ug/L	283840	5.42	278400	8.99	156480	11.53
04	191030 BLK	257024	5.42	249472	8.99	123784	11.53
05	BA01833W03	269248	5.42	261184	8.99	125680	11.53
06	Ending CCV 10ug/L 10/2	276480	5.42	267584	8.99	156544	11.53
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.
Case No: 90559
Matrix: WATER

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
191029BT-LCS	Lab Control Spike	85-114	91.6				
191029BT-LCSD	Lab Control Spiked	85-114	91.6				
191029BT-BLK	Blank	85-114	93.1				
BA01828	ERH932	85-114	91.0				
BA01832	ERH952	85-114	98.1				
BA01829	ERH933	85-114	92.0				
BA01831	ERH949	85-114	93.0				
BA01830	ERH948	85-114	90.8				

Comments: Batch: #GRO86-191029BT

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Loki

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)			Limits	Result	Qualifier
		Limits	Result	Qualifier			
191030AL-LCS	Lab Control Spike	85-114	104				
191030AL-LCSD	Lab Control SpikeD	85-114	108				
191030AL-BLK	Blank	85-114	105				
BA01833	ERH953	85-114	101				

Comments: Batch: #GRO86-191030AL

Printed: 10/31/19 1:11:49 PM
Form 2 & 8, Surrogate Recovery Summary

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

Blank ID: 191029BT-BLK

Time Analyzed: 0322

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT-LCS	Lab Control Spike	1029T31	10/30/19 0157
191029BT-LCSD	Lab Control Spiked	1029T32	10/30/19 0225
191029BT-BLK	Blank	1029T34	10/30/19 0322
BA01828	ERH932	1029T35	10/30/19 0350
BA01832	ERH952	1029T36	10/30/19 0418
BA01829	ERH933	1029T37	10/30/19 0447
BA01831	ERH949	1029T38	10/30/19 0515
BA01830	ERH948	1029T40	10/30/19 0612

Comments: Batch: #GRO86-191029BT

Printed: 10/31/19 1:11:42 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **191029W-01828 - 246623**
Batch ID: #GRO86-191029BT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/30/19	10/30/19
BLANK	SURROGATE: 4-BROMOFLUORO	93.1	85-114			%	10/30/19	10/30/19

Quant Method: TGAS1026.M
Run #: 1029T34
Instrument: Thor
Sequence: T191028
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:11:51 PM

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Loki

Blank ID: 191030AL-BLK

Time Analyzed: 0050

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL-LCS	Lab Control Spike	1030L22	10/30/19 2353
191030AL-LCSD	Lab Control SpikeD	1030L23	10/31/19 0022
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01833	ERH953	1030L28	10/31/19 0244

Comments: Batch: #GRO86-191030AL

Printed: 10/31/19 1:11:42 PM
Form 4, Blank Summary

Method Blank
EPA 8260B GRO WATER

Blank Name/QCG: **191030W-01777 - 246612**
Batch ID: #GRO86-191030AL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	10/31/19	10/31/19
BLANK	SURROGATE: 4-BROMOFLUORO	105	85-114			%	10/31/19	10/31/19

Quant Method: LGAS1026.M
Run #: 1030L24
Instrument: Loki
Sequence: 191023
Initials: DPO

GC SC-Blank-REG MDLs-DOD
Printed: 10/31/19 1:11:50 PM

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Thor

LCS ID: 191029BT-LCS

Time Analyzed: 0157

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029BT-LCS	Lab Control Spike	1029T31	10/30/19 0157
191029BT-LCSD	Lab Control SpikeD	1029T32	10/30/19 0225
191029BT-BLK	Blank	1029T34	10/30/19 0322
BA01828	ERH932	1029T35	10/30/19 0350
BA01832	ERH952	1029T36	10/30/19 0418
BA01829	ERH933	1029T37	10/30/19 0447
BA01831	ERH949	1029T38	10/30/19 0515
BA01830	ERH948	1029T40	10/30/19 0612

Comments: Batch: #GRO86-191029BT

Printed: 10/31/19 1:11:40 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 191030W-01828 LCS - 246623
 Batch ID: #GRO86-191029BT

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	330	340	110	113	78-122	3.0	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	22.9	22.9	91.6	91.6	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	TGAS1026.M	TGAS1026.M
Extraction Date :	10/30/19	10/30/19
Analysis Date :	10/30/19	10/30/19
Instrument :	Thor	Thor
Run :	1029T31	1029T32
Initials :	DPO	

EPA 8260B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
LCS ID: 191030AL-LCS

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Loki
Time Analyzed: 2353

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030AL-LCS	Lab Control Spike	1030L22	10/30/19 2353
191030AL-LCSD	Lab Control SpikeD	1030L23	10/31/19 0022
191030AL-BLK	Blank	1030L24	10/31/19 0050
BA01833	ERH953	1030L28	10/31/19 0244

Comments: Batch: #GRO86-191030AL

Laboratory Control Spike Recoveries

EPA 8260B GRO WATER

APPL ID: 191030W-01777 LCS - 246612
 Batch ID: #GRO86-191030AL

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	300	278	100	92.7	78-122	7.6	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	26.1	27.1	104	108	85-114		

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	LGAS1026.M	LGAS1026.M
Extraction Date :	10/30/19	10/31/19
Analysis Date :	10/30/19	10/31/19
Instrument :	Loki	Loki
Run :	1030L22	1030L23
Initials :	DPO	

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Rocky

Blank ID: 191029A-BLK

Time Analyzed: 1742

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191029A-LCS	Lab Control Spike	1029R04	10/29/19 1717
191029A-LCSD	Lab Control SpikeD	1029R05	10/29/19 1737
191029A-BLK	Blank	1029R06	10/29/19 1742
BA01828	ERH932	1029R15	10/29/19 1829
BA01829	ERH933	1029R16	10/29/19 1832
BA01831	ERH949	1029R17	10/29/19 1835
BA01833	ERH953	1029R18	10/29/19 1841

Comments: Batch: #RSKME-191029A

Printed: 11/15/19 10:43:31 AM
Form 4, Blank Summary

RSK 175

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Rocky

Blank ID: 191031A-BLK

Time Analyzed: 1712

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-LCS	Lab Control Spike	1031R03	10/31/19 1703
191031A-LCSD	Lab Control SpikeD	1031R04	10/31/19 1708
191031A-BLK	Blank	1031R05	10/31/19 1712
BA01830	ERH948	1031R06	10/31/19 1715
BA01832	ERH952	1031R07	10/31/19 1717

Comments: Batch: #RSKME-191031A

Printed: 11/15/19 10:43:31 AM
Form 4, Blank Summary

Method Blank
METHANE

Blank Name/QCG: **191029W-01774 - 246555**
Batch ID: #RSKME-191029A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/29/19	10/29/19

Quant Method: RSK1002.M
Run #: 1029R06
Instrument: Rocky
Sequence: 191002
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 11/15/19 10:43:10 AM

Method Blank
METHANE

Blank Name/QCG: 191031W-01830 - 246650
Batch ID: #RSKME-191031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHANE	1.00 U	5.0	1.00	0.25	ug/L	10/31/19	10/31/19

Quant Method: RSK1002.M
Run #: 1031R05
Instrument: Rocky
Sequence: 191002
Initials: GAG

GC SC-Blank-REG MDLs-DOD
Printed: 11/15/19 10:43:10 AM

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/29/19

Matrix: WATER

Instrument: Rocky

LCS ID: 191029A-LCS

Time Analyzed: 1717

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191029A-LCS	Lab Control Spike	1029R04	10/29/19 1717
191029A-LCSD	Lab Control SpikeD	1029R05	10/29/19 1737
191029A-BLK	Blank	1029R06	10/29/19 1742
BA01828	ERH932	1029R15	10/29/19 1829
BA01829	ERH933	1029R16	10/29/19 1832
BA01831	ERH949	1029R17	10/29/19 1835
BA01833	ERH953	1029R18	10/29/19 1841

Comments: Batch: #RSKME-191029A

Printed: 11/15/19 10:43:32 AM
Form 4, LCS Summary

RSK 175

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/31/19

Matrix: WATER

Instrument: Rocky

LCS ID: 191031A-LCS

Time Analyzed: 1703

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191031A-LCS	Lab Control Spike	1031R03	10/31/19 1703
191031A-LCSD	Lab Control SpikeD	1031R04	10/31/19 1708
191031A-BLK	Blank	1031R05	10/31/19 1712
BA01830	ERH948	1031R06	10/31/19 1715
BA01832	ERH952	1031R07	10/31/19 1717

Comments: Batch: #RSKME-191031A

Printed: 11/15/19 10:43:32 AM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METHANE

APPL ID: 191029W-01774 LCS - 246555
 Batch ID: #RSKME-191029A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	79.9	70.8	95.8	84.9	72-125	12.1	30

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK1002.M	RSK1002.M
Extraction Date :	10/29/19	10/29/19
Analysis Date :	10/29/19	10/29/19
Instrument :	Rocky	Rocky
Run :	1029R04	1029R05
Initials :	GAG	

Laboratory Control Spike Recoveries

METHANE

APPL ID: 191031W-01830 LCS - 246650

Batch ID: #RSKME-191031A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
METHANE	83.4	86.5	88.2	104	106	72-125	1.9	30

Comments: _____

	<u>SPK</u>	<u>DUP</u>
Quant Method :	RSK1002.M	RSK1002.M
Extraction Date :	10/31/19	10/31/19
Analysis Date :	10/31/19	10/31/19
Instrument :	Rocky	Rocky
Run :	1031R03	1031R04
Initials :	GAG	

6010C/3010A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/18/19

Matrix: WATER

Instrument: Phoebe

Blank ID: 191030A-BLK

Time Analyzed: 1350

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control SpikeD	191118A	11/18/19 1408
191030A-LCS	Lab Control Spike	191118A	11/18/19 1403
191030A-BLK	Blank	191118A	11/18/19 1350
BA01833	ERH953	191118A	11/18/19 1417
BA01831	ERH949	191118A	11/18/19 1412

Comments: Batch: #61CDO-191030A

Printed: 11/19/19 2:51:49 PM
Form 4, Blank Summary

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6010C	CALCIUM (CA)	75.0 U	1000	75.0	27.5	ug/L	10/30/19	11/18/19	#61CDO-191030A-BA01833
6010C	MAGNESIUM (MG)	30.0 U	500	30.0	12.9	ug/L	10/30/19	11/18/19	#61CDO-191030A-BA01833
6010C	MANGANESE (MN)	4.00 U	10.0	4.00	1.23	ug/L	10/30/19	11/18/19	#61CDO-191030A-BA01833
6010C	POTASSIUM (K)	500.0 U	3000	500.0	220.0	ug/L	10/30/19	11/18/19	#61CDO-191030A-BA01833
6010C	SODIUM (NA)	120 J	5000	500.0	111.1	ug/L	10/30/19	11/18/19	#61CDO-191030A-BA01833

J = Estimated value.

Metals SC-Blank-REG MDLs
Printed: 11/19/19 2:52:19 PM

6010C/3010A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/18/19

Matrix: WATER

Instrument: Phoebe

LCS ID: 191030A-LCS

Time Analyzed: 1403

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control Spiked	191118A	11/18/19 1408
191030A-LCS	Lab Control Spike	191118A	11/18/19 1403
191030A-BLK	Blank	191118A	11/18/19 1350
BA01833	ERH953	191118A	11/18/19 1417
BA01831	ERH949	191118A	11/18/19 1412

Comments: Batch: #61CDO-191030A

Printed: 11/19/19 2:53:49 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 6010C	CALCIUM (CA)	25000	24100	22900	96.4	91.6	5.1	20	87-113	10/30/19	11/18/19	10/30/19	11/18/19	#61CDO-191030A-BA0183
EPA 6010C	MAGNESIUM (MG)	25000	24100	22900	96.4	91.6	5.1	20	85-113	10/30/19	11/18/19	10/30/19	11/18/19	#61CDO-191030A-BA0183
EPA 6010C	MANGANESE (MN)	250	239	229	95.6	91.6	4.3	20	90-114	10/30/19	11/18/19	10/30/19	11/18/19	#61CDO-191030A-BA0183
EPA 6010C	POTASSIUM (K)	5000	4510	4340	90.2	86.8	3.8	20	86-114	10/30/19	11/18/19	10/30/19	11/18/19	#61CDO-191030A-BA0183
EPA 6010C	SODIUM (NA)	25000	23600	22400	94.4	89.6	5.2	20	87-115	10/30/19	11/18/19	10/30/19	11/18/19	#61CDO-191030A-BA0183

Comments: _____

Matrix Spike Recoveries

METALS

APPL ID: 191030W-01833 MS - 247321

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample ID: BA01833

Client ID: ERH953

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
EPA 6010C	CALCIUM (CA)	6250	11400	36400	41000	400 #	474 #	11.9	20	87-113	10/30/19	11/18/19	10/30/19	11/18/19	247321	BA01833
EPA 6010C	MAGNESIUM (MG)	6250	11400	37300	41900	414 #	488 #	11.6	20	85-113	10/30/19	11/18/19	10/30/19	11/18/19	247321	BA01833
EPA 6010C	MANGANESE (MN)	250	15.8	262	297	98.5	112	12.5	20	90-114	10/30/19	11/18/19	10/30/19	11/18/19	247321	BA01833
EPA 6010C	POTASSIUM (K)	6250	799	5580	6380	76.5 #	89.3	13.4	20	86-114	10/30/19	11/18/19	10/30/19	11/18/19	247321	BA01833
EPA 6010C	SODIUM (NA)	6250	36200	60300	68300	386 #	514 #	12.4	20	87-115	10/30/19	11/18/19	10/30/19	11/18/19	247321	BA01833

= Recovery is outside QC limits.

Comments:

EPA 353.2

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: EVE

Blank ID: 191030A-BLK

Time Analyzed: 1650

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191030A-BLK	Blank	12	10/30/19 1650
191030A-LCS	Lab Control Spike	13	10/30/19 1652
191030A-LCSD	Lab Control Spiked	14	10/30/19 1655
BA01829	ERH933	22	10/30/19 1712
BA01831	ERH949	23	10/30/19 1714
BA01833	ERH953	24	10/30/19 1717

Comments: Batch: #35OF-191030A

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SM 2320B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Tiamo

Blank ID: 191030A-BLK

Time Analyzed: 0813

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-BLK	Blank	1	10/30/19 0813
BA01829	ERH933	12	10/30/19 1131
BA01831	ERH949	13	10/30/19 1136
BA01833	ERH953	14	10/30/19 1141
191030A-LCS	Lab Control Spike	2	10/30/19 0816
191030A-LCSD	Lab Control SpikeD	3	10/30/19 0843

Comments: Batch: #232W-191030A

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SM 4500-Si D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 191030A-BLK

Time Analyzed: 2104

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control Spiked	63	10/30/19 2104
191030A-LCS	Lab Control Spike	64	10/30/19 2104
191030A-BLK	Blank	65	10/30/19 2104
BA01831	ERH949	66	10/30/19 2105
BA01833	ERH953	67	10/30/19 2105

Comments: Batch: #SIO2-191030A

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SM 4500-Si D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: 191030A-BLK

Time Analyzed: 2104

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control SpikeD	63	10/30/19 2104
191030A-LCS	Lab Control Spike	64	10/30/19 2104
191030A-BLK	Blank	65	10/30/19 2104
BA01831	ERH949	69	10/30/19 2107
BA01833	ERH953	71	10/30/19 2108

Comments: Batch: #SIO2D-191030A

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SM3500FeB

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/25/19

Matrix: WATER

Instrument: Manual Spec

Blank ID: A191025-BLK

Time Analyzed: 2152

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A191025-BLK	Blank	30	10/25/19 2152
A191025-LCSD	Lab Control SpikeD	32	10/25/19 2154
A191025-LCS	Lab Control Spike	33	10/25/19 2154
BA01831	ERH949	34	10/25/19 2155
BA01829	ERH933	35	10/25/19 2156
BA01833	ERH953	36	10/25/19 2157

Comments: Batch: #35FE-A191025

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 90559
Case No: 90559 Date Analyzed: 11/05/19
Matrix: WATER Instrument: TICTOC
Blank ID: 191105A-BLK Time Analyzed: 1620

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191105A-BLK	Blank	15	11/05/19 1620
191105A-LCS	Lab Control Spike	16	11/05/19 1656
191105A-LCSD	Lab Control Spiked	17	11/05/19 1731
BA01831	ERH949	35	11/06/19 0447
BA01833	ERH953	37	11/06/19 0553

Comments: Batch: #DOCW5-191105A

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 90559
Case No: 90559 Date Analyzed: 11/10/19
Matrix: WATER Instrument: TICTOC
Blank ID: 191107B-BLK Time Analyzed: 1833

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191107B-BLK	Blank	10	11/10/19 1833
191107B-LCS	Lab Control Spike	11	11/10/19 1909
191107B-LCSD	Lab Control SpikeD	12	11/10/19 1945
BA01829	ERH933	13	11/10/19 2022
BA01831	ERH949	14	11/10/19 2055
BA01833	ERH953	15	11/10/19 2128

Comments: Batch: #TOCW5-191107B

Printed: 11/20/19 4:02:03 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SM 2320B	TOTAL ALKALINITY	1.70 U	2.0	1.70	0.85	mg/L	10/30/19	10/30/19	#232W-191030A-BA02059
EPA 353.2	NITRATE-NITRITE-	0.090 U	0.10	0.090	0.028	mg/L	10/30/19	10/30/19	#350F-191030A-BA02056
SW846 90	TOTAL ORGANIC C	0.13 J	0.93	0.350	0.130	mg/L	11/10/19	11/10/19	#TOCW5-191107B-BA01829
SW846 90	DISSOLVED ORGA	0.350 U	0.93	0.350	0.130	mg/L	11/05/19	11/05/19	#DOCW5-191105A-BA01784
SM3500Fe	FERROUS IRON	0.32 U	1.0	0.32	0.16	mg/L	10/25/19	10/25/19	#35FE-A191025-BA01833
SM 4500-S	SILICA W	0.80 U	1.0	0.80	0.53	mg/L	10/30/19	10/30/19	#SIO2-191030A-BA01833
SM 4500-S	DISSOLVED SILICA	0.80 U	1.0	0.80	0.53	mg/L	10/30/19	10/30/19	#SIO2D-191030A-BA01833

Wetlab SC-Blank-REG MDLs
Printed: 11/20/19 4:02:01 PM

EPA 353.2

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: EVE

LCS ID: 191030A-LCS

Time Analyzed: 1652

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-BLK	Blank	12	10/30/19 1650
191030A-LCS	Lab Control Spike	13	10/30/19 1652
191030A-LCSD	Lab Control Spiked	14	10/30/19 1655
BA01829	ERH933	22	10/30/19 1712
BA01831	ERH949	23	10/30/19 1714
BA01833	ERH953	24	10/30/19 1717

Comments: Batch: #35OF-191030A

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SM 2320B

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
LCS ID: 191030A-LCS

SDG No: 90559
Date Analyzed: 10/30/19
Instrument: Tiamo
Time Analyzed: 0816

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-BLK	Blank	1	10/30/19 0813
BA01829	ERH933	12	10/30/19 1131
BA01831	ERH949	13	10/30/19 1136
BA01833	ERH953	14	10/30/19 1141
191030A-LCS	Lab Control Spike	2	10/30/19 0816
191030A-LCSD	Lab Control Spiked	3	10/30/19 0843

Comments: Batch: #232W-191030A

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SM 4500-Si D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 191030A-LCS

Time Analyzed: 2104

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control SpikeD	63	10/30/19 2104
191030A-LCS	Lab Control Spike	64	10/30/19 2104
191030A-BLK	Blank	65	10/30/19 2104
BA01831	ERH949	66	10/30/19 2105
BA01833	ERH953	67	10/30/19 2105

Comments: Batch: #SIO2-191030A

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SM 4500-Si D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/30/19

Matrix: WATER

Instrument: Manual Spec

LCS ID: 191030A-LCS

Time Analyzed: 2104

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191030A-LCSD	Lab Control SpikeD	63	10/30/19 2104
191030A-LCS	Lab Control Spike	64	10/30/19 2104
191030A-BLK	Blank	65	10/30/19 2104
BA01831	ERH949	69	10/30/19 2107
BA01833	ERH953	71	10/30/19 2108

Comments: Batch: #SIO2D-191030A

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SM3500FeB

Form 4

LCS Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
LCS ID: A191025-LCS

SDG No: 90559
Date Analyzed: 10/25/19
Instrument: Manual Spec
Time Analyzed: 2154

APPL ID.	Client Sample No.	File ID.	Date Analyzed
A191025-BLK	Blank	30	10/25/19 2152
A191025-LCSD	Lab Control SpikeD	32	10/25/19 2154
A191025-LCS	Lab Control Spike	33	10/25/19 2154
BA01831	ERH949	34	10/25/19 2155
BA01829	ERH933	35	10/25/19 2156
BA01833	ERH953	36	10/25/19 2157

Comments: Batch: #35FE-A191025

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: TICTOC

LCS ID: 191105A-LCS

Time Analyzed: 1656

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191105A-BLK	Blank	15	11/05/19 1620
191105A-LCS	Lab Control Spike	16	11/05/19 1656
191105A-LCSD	Lab Control Spiked	17	11/05/19 1731
BA01831	ERH949	35	11/06/19 0447
BA01833	ERH953	37	11/06/19 0553

Comments: Batch: #DOCW5-191105A

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/10/19

Matrix: WATER

Instrument: TICTOC

LCS ID: 191107B-LCS

Time Analyzed: 1909

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191107B-BLK	Blank	10	11/10/19 1833
191107B-LCS	Lab Control Spike	11	11/10/19 1909
191107B-LCSD	Lab Control Spiked	12	11/10/19 1945
BA01829	ERH933	13	11/10/19 2022
BA01831	ERH949	14	11/10/19 2055
BA01833	ERH953	15	11/10/19 2128

Comments: Batch: #TOCW5-191107B

Printed: 11/20/19 4:02:04 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 353.2	NITRATE-NITRITE-N	3.00	2.98	3.03	99.3	101	1.7	20	90-110	10/30/19	10/30/19	10/30/19	10/30/19	#35OF-191030A-BA02056
SM 2320B	TOTAL ALKALINITY AS CA	250	248	248	99.2	99.2	0.0	20	90-110	10/30/19	10/30/19	10/30/19	10/30/19	#232W-191030A-BA02059
SW846 90	TOTAL ORGANIC CARBO	5.00	5.16	5.12	103	102	0.78	20	80-120	11/10/19	11/10/19	11/10/19	11/10/19	#TOCW5-191107B-BA018

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SW846 90	DISSOLVED ORGANIC CA	5.00	5.06	5.06	101	101	0.0	20	90-110	11/05/19	11/05/19	11/05/19	11/05/19	#DOCW5-191105A-BA017

Comments: _____

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SM 4500-Si	SILICA W	4.00	3.81	3.77	95.3	94.3	1.1	20	80-120	10/30/19	10/30/19	10/30/19	10/30/19	#SIO2-191030A-BA01833
SM 4500-Si	DISSOLVED SILICA	4.00	3.81	3.77	95.3	94.3	1.1	20	80-120	10/30/19	10/30/19	10/30/19	10/30/19	#SIO2D-191030A-BA01833
SM3500Fe	FERROUS IRON	3.00	3.14	3.13	105	104	0.32	20	80-120	10/25/19	10/25/19	10/25/19	10/25/19	#35FE-A191025-BA01833

Comments:

Printed: 11/20/19 4:02:02 PM
 APPL Standard LCSD

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/25/19

Matrix: WATER

Instrument: Charlie

Blank ID: 191025E1-BLK

Time Analyzed: 1903

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191025E1-BLK	Blank	19	10/25/19 1903
BA01829	ERH933	22	10/25/19 1925
BA01833	ERH953	23	10/25/19 1933
BA01831	ERH949	24	10/25/19 1940
191025E1-LCS	Lab Control Spike	5	10/25/19 1718
191025E1-LCSD	Lab Control Spiked	6	10/25/19 1725

Comments: Batch: #300W-191025E1

Printed: 11/19/19 3:34:44 PM
Form 4, Blank Summary

EPA 300.0

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 90559
Matrix: WATER
Blank ID: 191105DRH-BLK

SDG No: 90559
Date Analyzed: 11/05/19
Instrument: Charlie
Time Analyzed: 2231

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191105DRH-BLK	Blank	20	11/05/19 2231
BA01829	ERH933	21	11/05/19 2238
BA01833	ERH953	22	11/05/19 2246
191105DRH-LCS	Lab Control Spike	3	11/05/19 2023
191105DRH-LCSD	Lab Control Spiked	4	11/05/19 2031

Comments: Batch: #300WD-191105D

Printed: 11/19/19 3:34:44 PM
Form 4, Blank Summary

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	RL	MDL	Units	Prep Date	Analysis Date	QC Group
EPA 300.0	CHLORIDE	0.08 U	1.0	0.08	mg/L	11/05/19	11/05/19	J0WD-191105DRH-BA01829
EPA 300.0	BROMIDE	0.05 U	0.5	0.05	mg/L	10/25/19	10/25/19	#300W-191025E1-BA01831
EPA 300.0	CHLORIDE	0.18 J	1.0	0.08	mg/L	10/25/19	10/25/19	#300W-191025E1-BA01831
EPA 300.0	FLUORIDE	0.08 U	0.1	0.08	mg/L	10/25/19	10/25/19	#300W-191025E1-BA01831
EPA 300.0	NITRATE	0.04 U	0.5	0.04	mg/L	10/25/19	10/25/19	#300W-191025E1-BA01831
EPA 300.0	SULFATE	0.09 U	1.0	0.09	mg/L	10/25/19	10/25/19	#300W-191025E1-BA01831

J = Estimated value.

Wetlab SC-Blank-REG MDLs
Printed: 11/19/19 3:34:20 PM

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 10/25/19

Matrix: WATER

Instrument: Charlie

LCS ID: 191025E1-LCS

Time Analyzed: 1718

APPL ID.	Client Sample No.	File ID.	Date Analyzed
191025E1-BLK	Blank	19	10/25/19 1903
BA01829	ERH933	22	10/25/19 1925
BA01833	ERH953	23	10/25/19 1933
BA01831	ERH949	24	10/25/19 1940
191025E1-LCS	Lab Control Spike	5	10/25/19 1718
191025E1-LCSD	Lab Control Spiked	6	10/25/19 1725

Comments: Batch: #300W-191025E1

Printed: 11/19/19 3:34:44 PM
Form 4, LCS Summary

EPA 300.0

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 90559

Case No: 90559

Date Analyzed: 11/05/19

Matrix: WATER

Instrument: Charlie

LCS ID: 191105DRH-LCS

Time Analyzed: 2023

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
191105DRH-BLK	Blank	20	11/05/19 2231
BA01829	ERH933	21	11/05/19 2238
BA01833	ERH953	22	11/05/19 2246
191105DRH-LCS	Lab Control Spike	3	11/05/19 2023
191105DRH-LCSD	Lab Control Spiked	4	11/05/19 2031

Comments: Batch: #300WD-191105D

Printed: 11/19/19 3:34:44 PM
Form 4, LCS Summary

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Analysis Date-Spk	Extract Analysis Date-Spk	Extract Analysis Date-Dup	QC Group
EPA 300.0	CHLORIDE	25.0	24.7	24.7	98.8	98.8	0.0	20	90-110	11/05/19	11/05/19	11/05/19	11/05/19 #300WD-191105DRH-BA0

Comments:

Printed: 11/19/19 3:34:30 PM
APPL Standard LCSD

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
EPA 300.0	BROMIDE	12.5	12.5	12.5	100	100	0.0	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#300W-191025E1-BA0183
EPA 300.0	CHLORIDE	25.0	23.9	23.8	95.6	95.2	0.42	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#300W-191025E1-BA0183
EPA 300.0	FLUORIDE	5.0	5.04	4.97	101	99.4	1.4	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#300W-191025E1-BA0183
EPA 300.0	NITRATE	22.1	21.7	21.7	98.2	98.2	0.0	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#300W-191025E1-BA0183
EPA 300.0	SULFATE	25.0	24.5	24.5	98.0	98.0	0.0	20	90-110	10/25/19	10/25/19	10/25/19	10/25/19	#300W-191025E1-BA0183

Comments: _____

ORGANICS
Calibration Data

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/04/19
Instrument: Herbie

Initials: _____

0916268.D 0916269.D 0916270.D 0916271.D 0916272.D 0916273.D

		Compound	1	2	3	4	5	6				Avg	%RSD	Type	r ²	Q
1	TM	EDB	957925	891635	829946	799880	783065	760594				837174	8.9	TM		
2	TM	1,2,3-TCP	275950	261900	249268	238118	222163	222258				244943	8.8	TM		
3	S	1,3-DIBROMOPROPANE(S)		1075985	937166	872350	833523	840804				911966	11	S		
4	TM	DBCP	3687525	3144370	3175104	3075688	2997261	3077861				3192968	7.8	TM		
5		Signal #2										0	0			
6																
7																
8																
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10																
11																
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33																
34																
35																

1.045453

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: _____

Case No: _____

Initial Cal. Date: 10/04/19 _____

Matrix: Water _____

Instrument: Herbie _____

Initials: _____

0916268.D 0916269.D 0916270.D 0916271.D 0916272.D 0916273.D

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
36	TM	EDB #2	4043025	3612320	3361426	3185151	3128997	3162054					3415495	10	TM		
37	TM	1,2,3-TCP #2	716275	690230	656420	605505	578491	554784					633618	10	TM		
38	S	1,3-DIBROMOPROPANE(S) #2		2479830	2319054	2114508	2054939	2051529					2203972	8.6	S		
39	TM	DBCP #2	10155850	9496460	9513624	9602001	9342871	9593304					9617352	2.9	TM		
40																	
41																	
42																	
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69																	
70																	

0.915583

Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916268.D\ECD1A.CH Vial: 68
 Signal #2 : G:\HERBIE\DATA\190916\0916268.D\ECD2B.CH
 Acq On : 10-04-19 19:08:08 Operator: MA,SS
 Sample : 8011 1 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

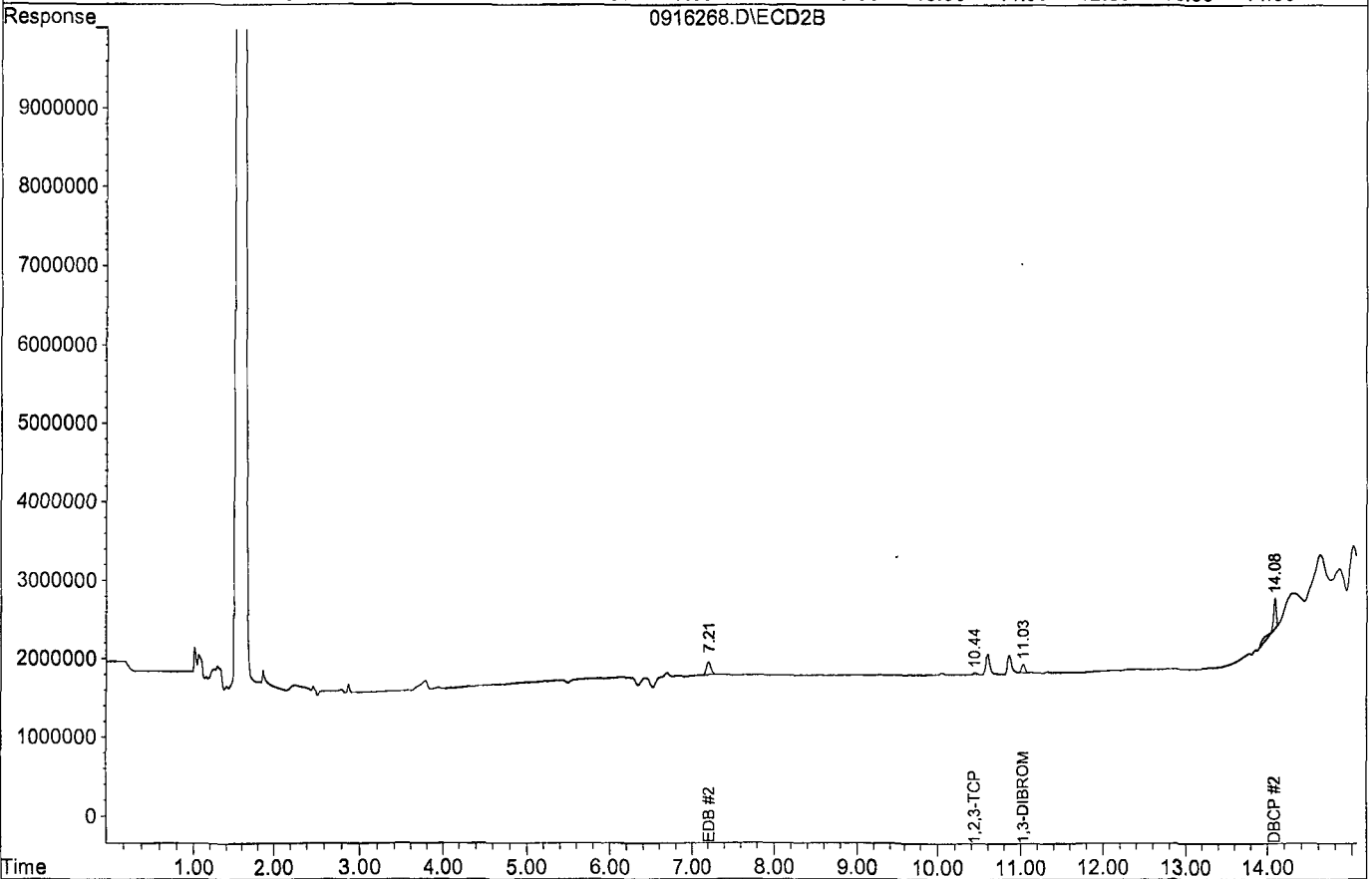
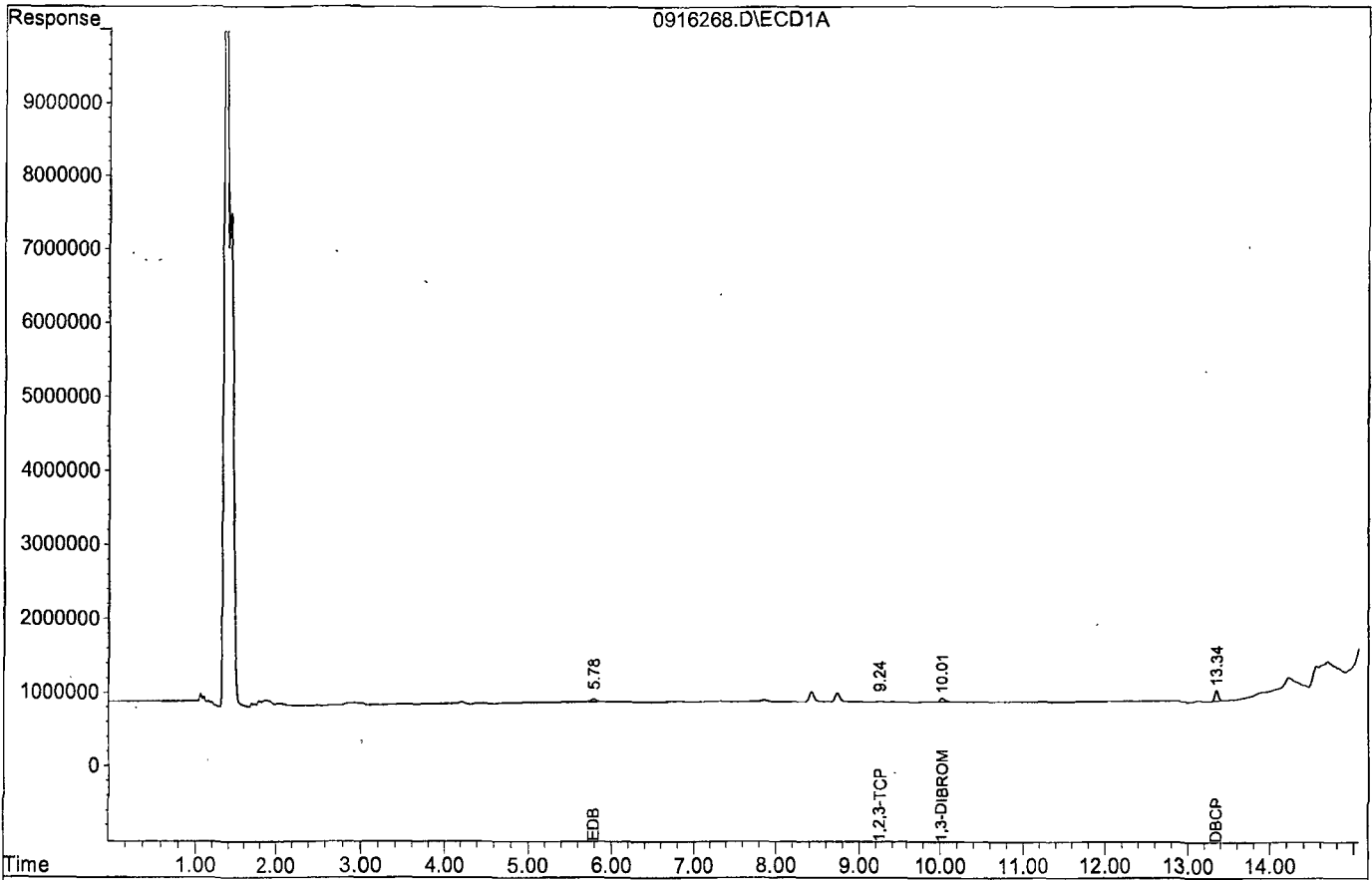
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	53761	107891	0.028	0.026
Spiked Amount	0.350		Recovery	=	8.00%	7.43%
Target Compounds						
1) TM EDB	5.78	7.21	38317	161721	0.029	0.026
2) TM 1,2,3-TCP	9.24	10.44	11038	28651	0.023	0.025
4) TM DBCP	13.34	14.08	147501	406234	0.023	0.025

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916268.D
Acq On : 10-04-19 19:08:08
Sample : 8011 1 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 68
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916269.D\ECD1A.CH Vial: 69
 Signal #2 : G:\HERBIE\DATA\190916\0916269.D\ECD2B.CH
 Acq On : 10-04-19 19:28:36 Operator: MA,SS
 Sample : 8011 2 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

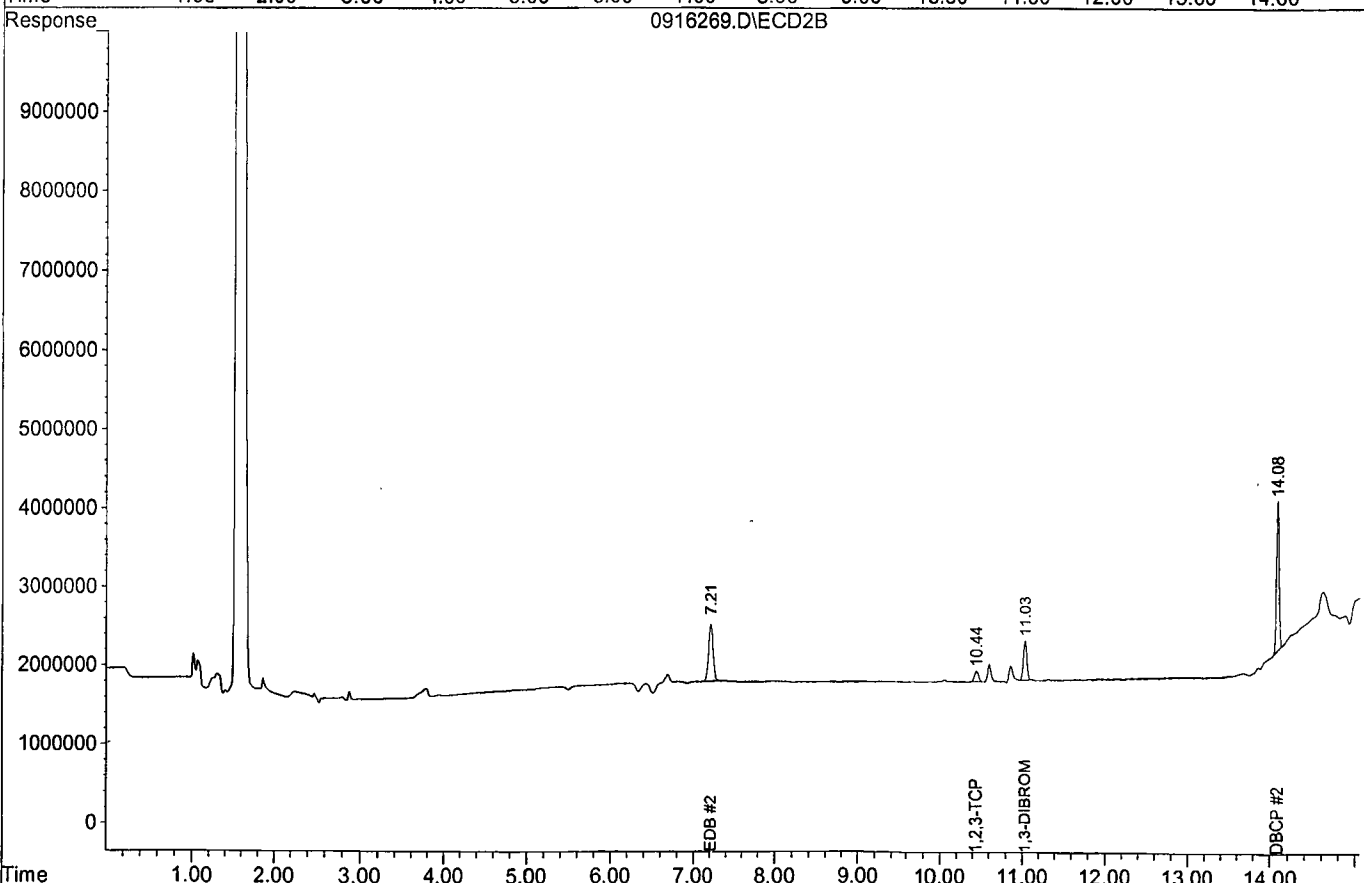
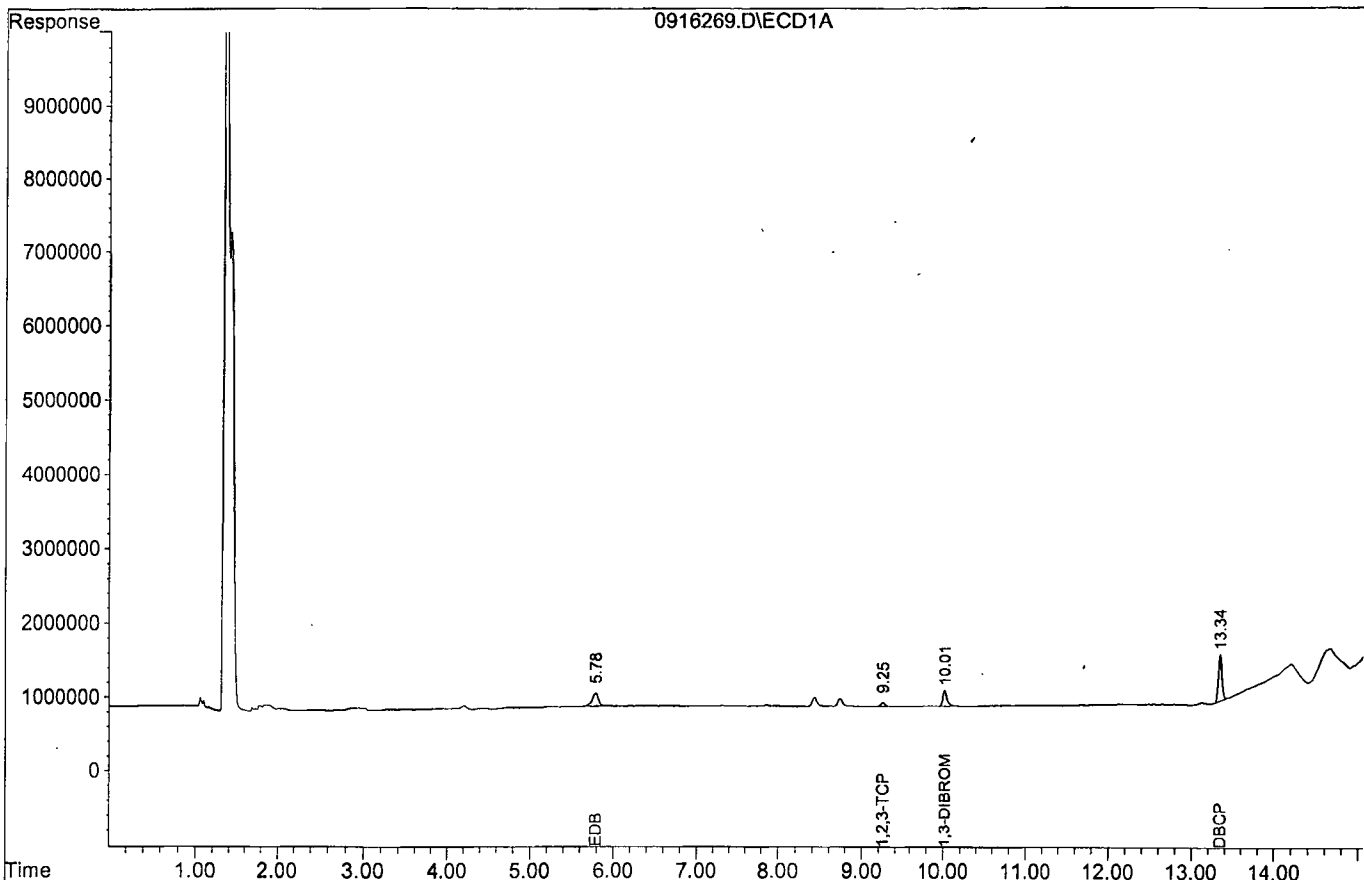
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	215197	495966	0.113	0.121
Spiked Amount	0.350		Recovery	=	32.29%	34.57%
Target Compounds						
1) TM EDB	5.78	7.21	178327	722464	0.133	0.116
2) TM 1,2,3-TCP	9.25	10.44	52380	138046	0.108	0.122
4) TM DBCP	13.34	14.08	628874	1899292	0.098	0.117

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916269.D
Acq On : 10-04-19 19:28:36
Sample : 8011 2 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 69
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916270.D\ECD1A.CH Vial: 70
 Signal #2 : G:\HERBIE\DATA\190916\0916270.D\ECD2B.CH
 Acq On : 10-04-19 19:49:11 Operator: MA,SS
 Sample : 8011 3 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

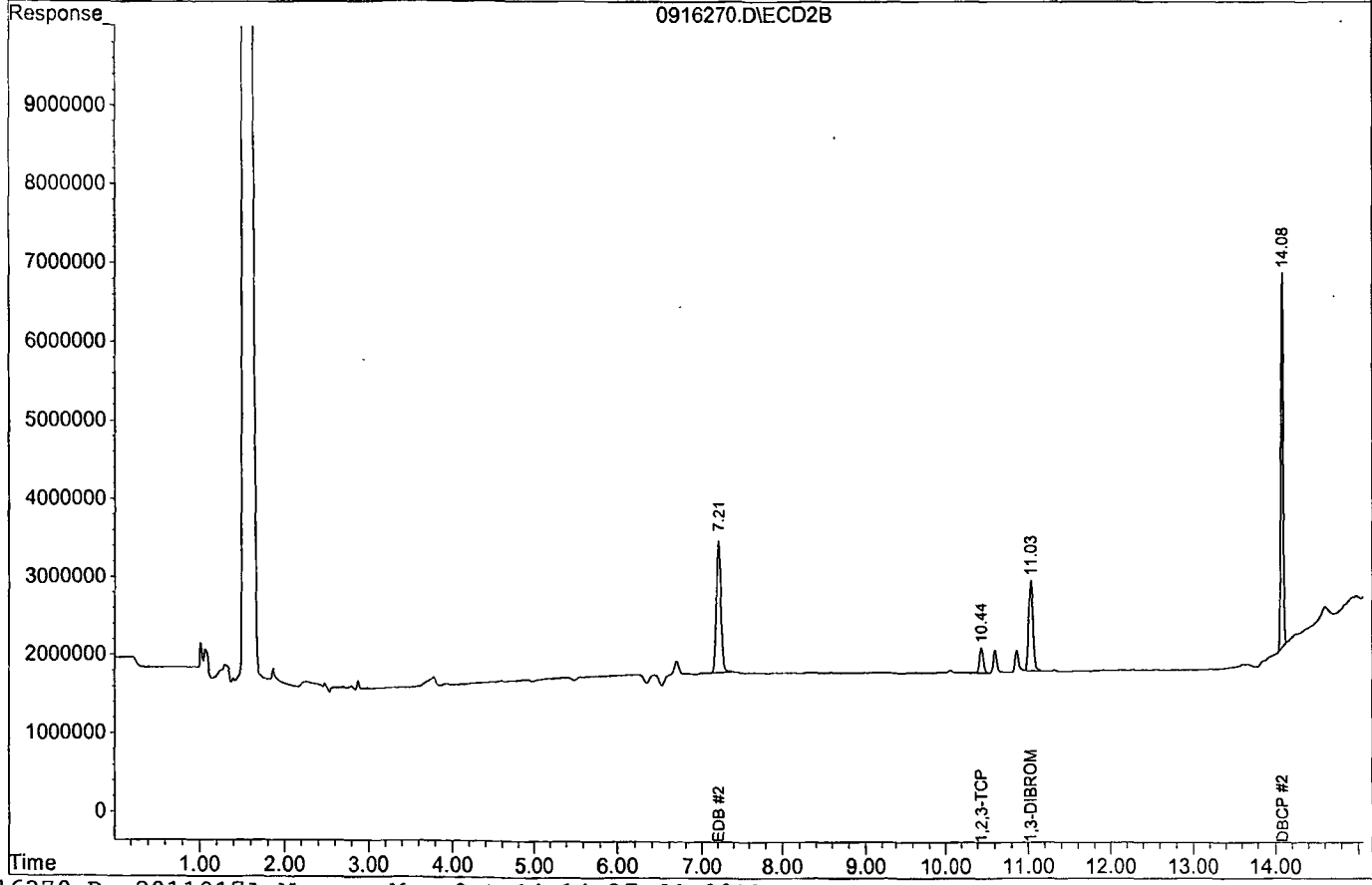
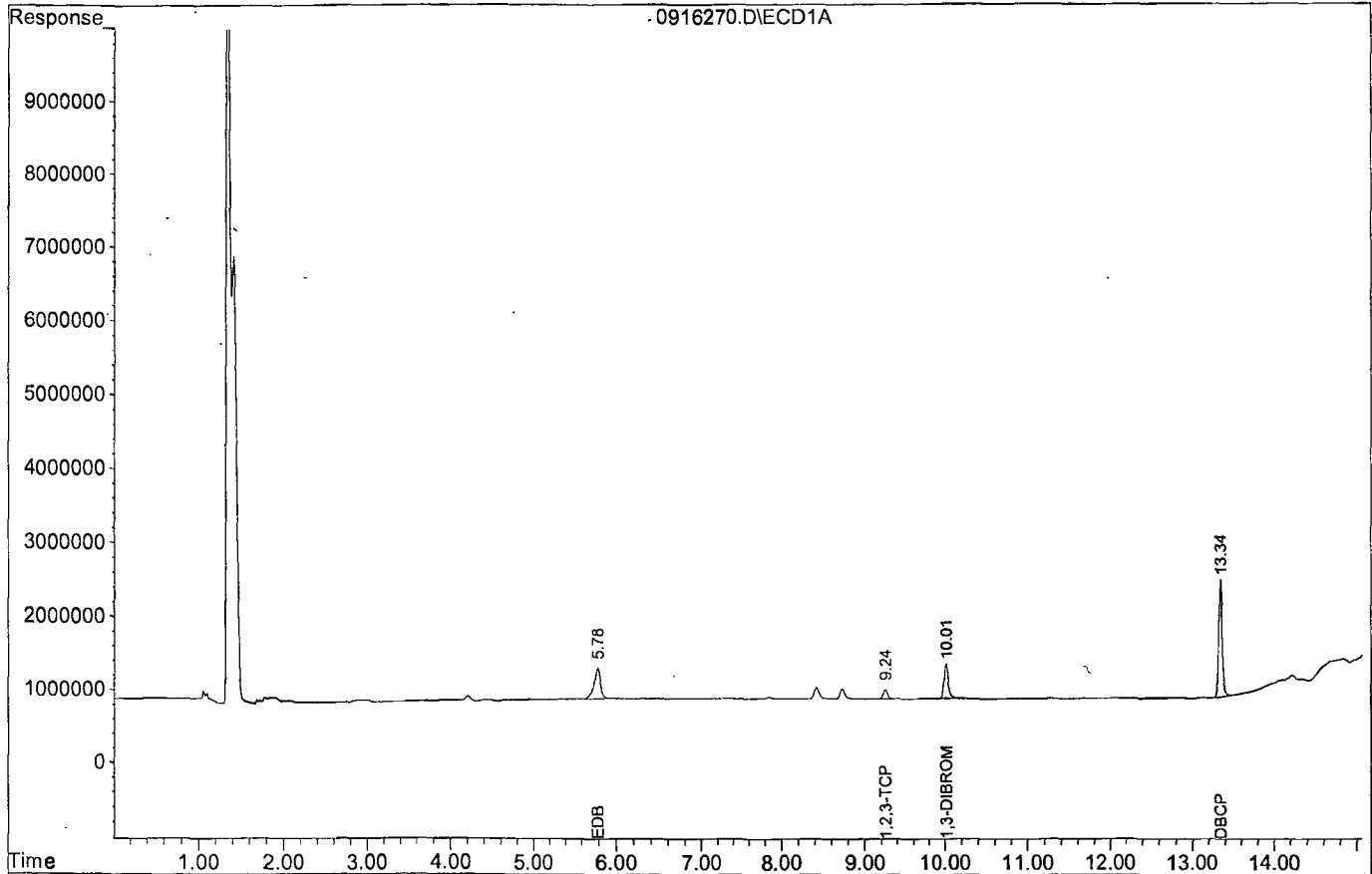
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	468583	1159527	0.246	0.283
Spiked Amount	0.350		Recovery	=	70.29%	80.86%
Target Compounds						
1) TM EDB	5.78	7.21	414973	1680713	0.309	0.270
2) TM 1,2,3-TCP	9.24	10.44	124634	328210	0.257	0.289
4) TM DBCP	13.34	14.08	1587552	4756812	0.248	0.292

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916270.D
Acq On : 10-04-19 19:49:11
Sample : 8011 3 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 70
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916271.D\ECD1A.CH Vial: 71
 Signal #2 : G:\HERBIE\DATA\190916\0916271.D\ECD2B.CH
 Acq On : 10-04-19 20:09:38 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

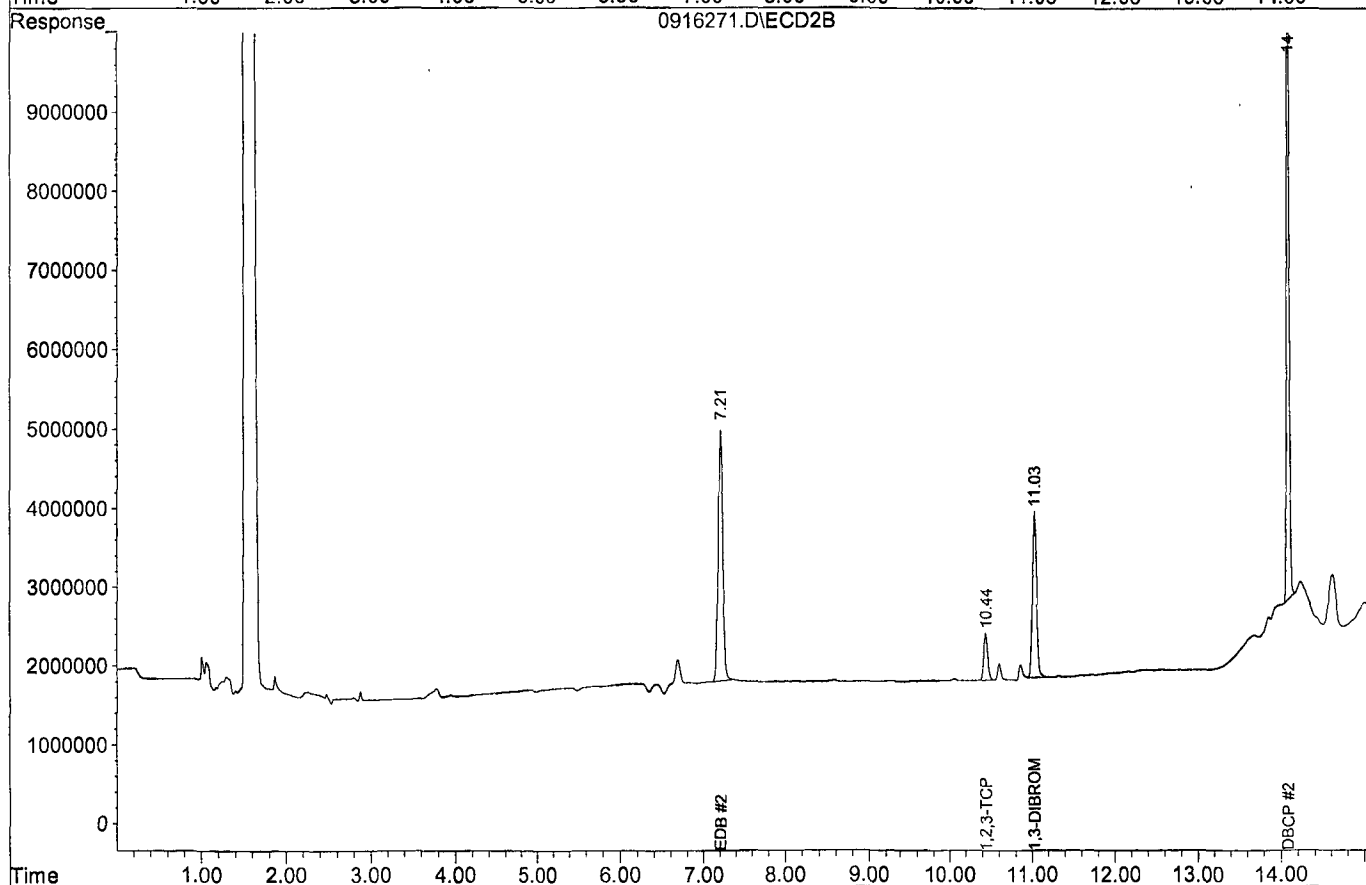
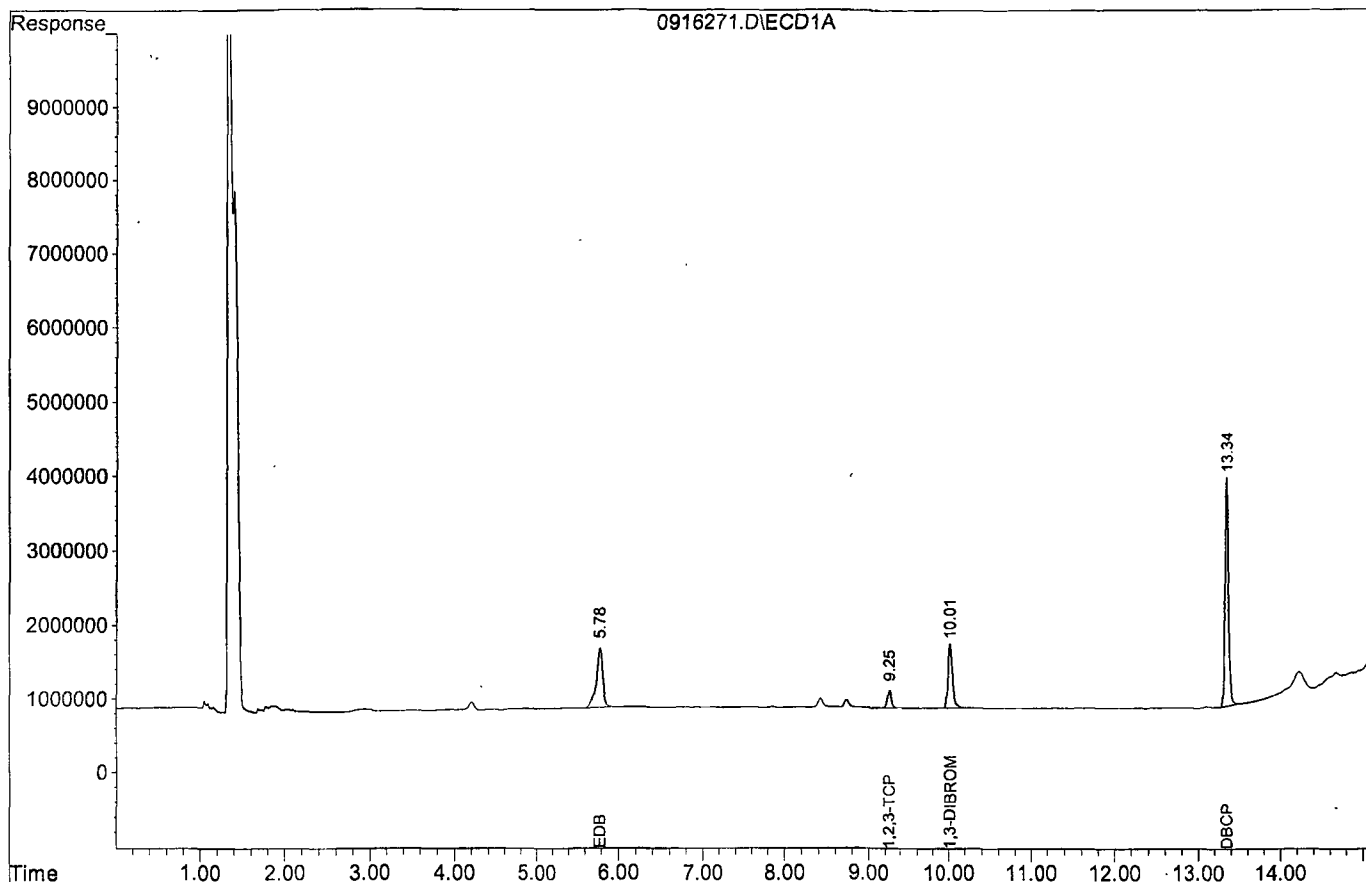
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	872350	2114508	0.458	0.517
Spiked Amount	0.350		Recovery	=	130.86%	147.71%
Target Compounds						
1) TM EDB	5.78	7.21	799880	3185151	0.596	0.511
2) TM 1,2,3-TCP	9.25	10.44	238118	605505	0.490	0.533
4) TM DBCP	13.34	14.08	3075688	9602001	0.481	0.590

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916271.D
Acq On : 10-04-19 20:09:38
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 71
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916272.D\ECD1A.CH Vial: 72
 Signal #2 : G:\HERBIE\DATA\190916\0916272.D\ECD2B.CH
 Acq On : 10-04-19 20:30:00 Operator: MA,SS
 Sample : 8011 5 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	1250285	3082409	0.657	0.753
Spiked Amount	0.350		Recovery	=	187.71%	215.14%

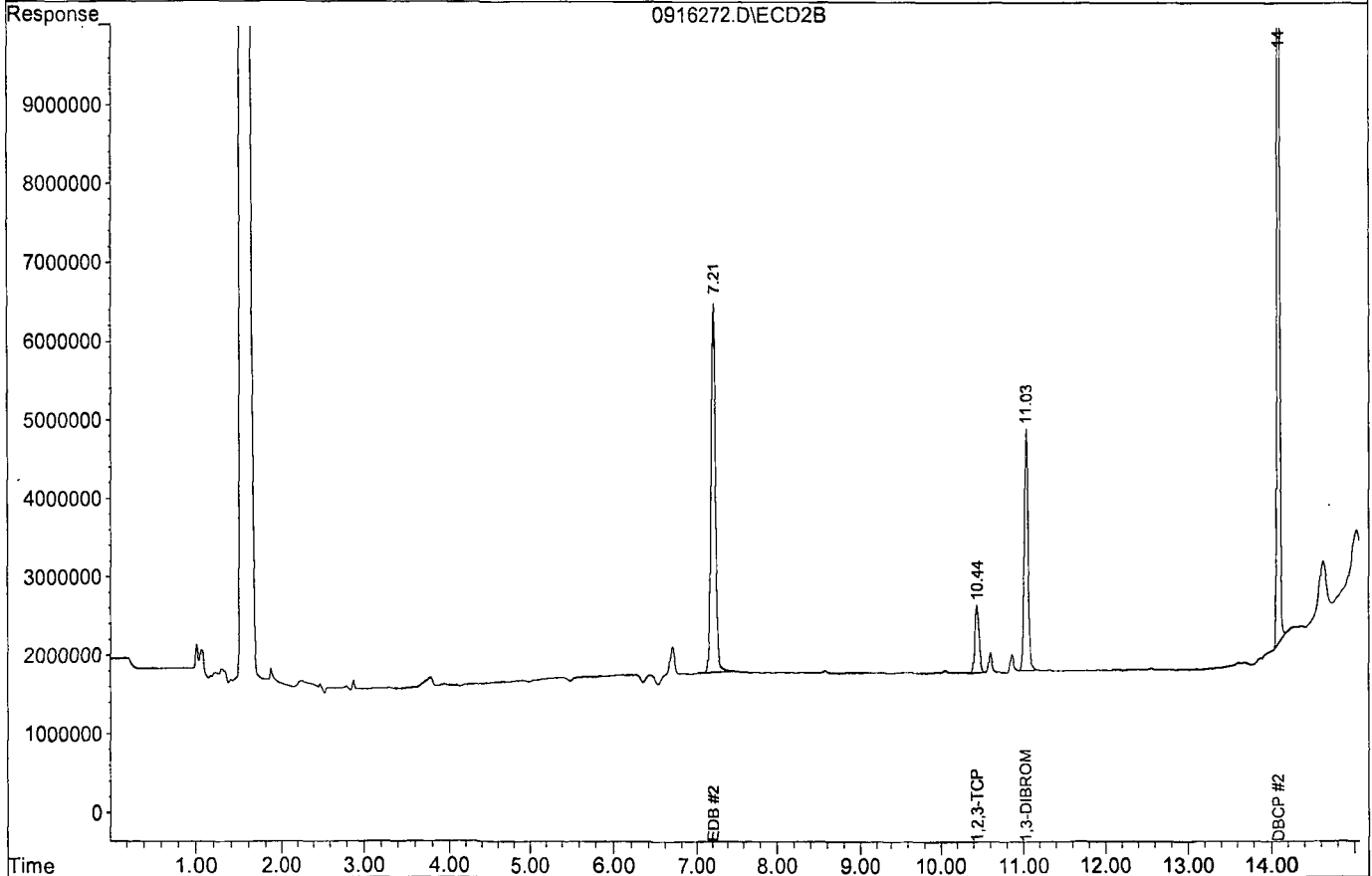
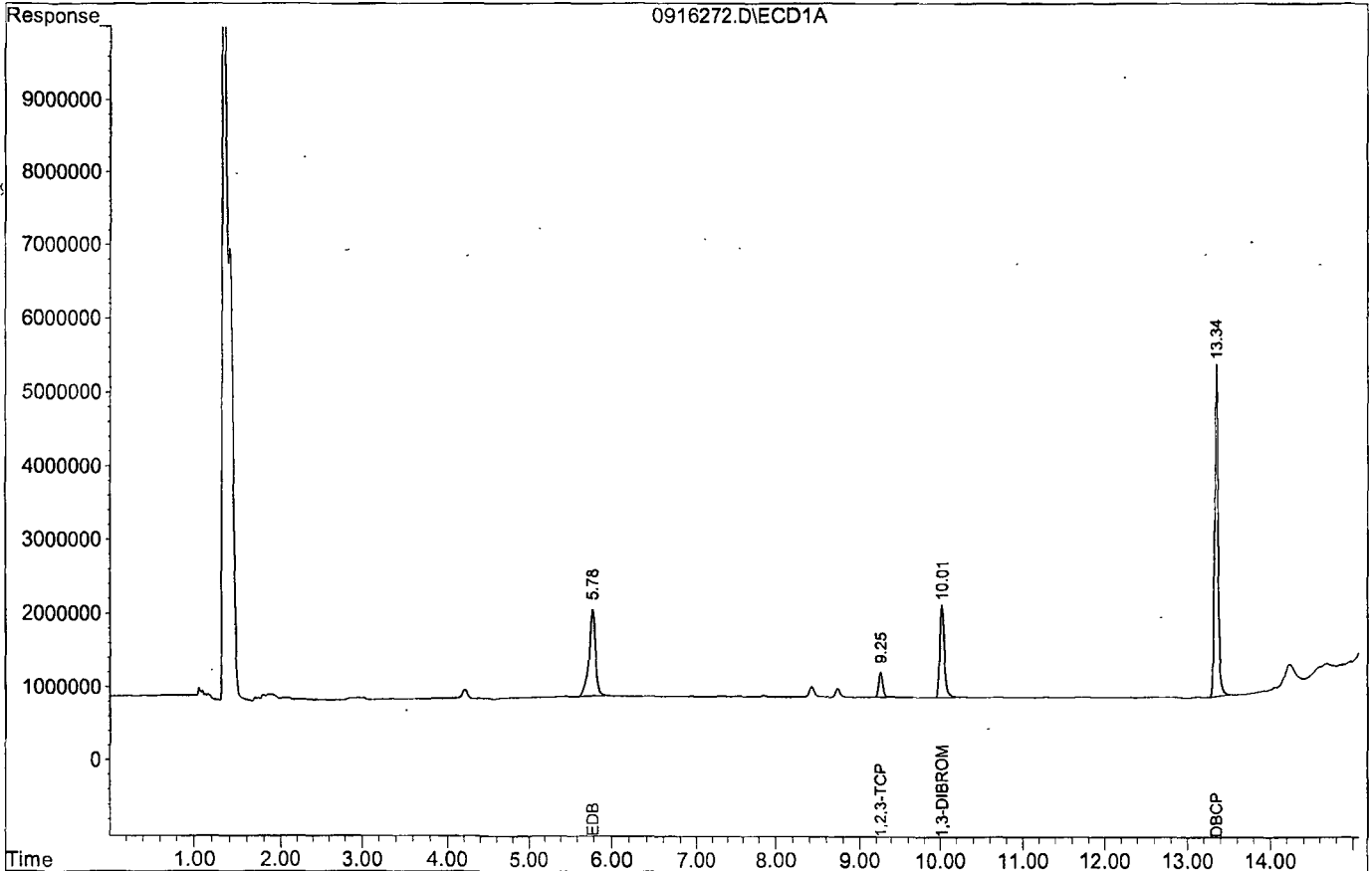
Target Compounds						
1) TM EDB	5.78	7.21	1174598	4693496	0.875	0.753
2) TM 1,2,3-TCP	9.25	10.44	333245	867737	0.686	0.764
4) TM DBCP	13.34	14.08	4495892	14014307	0.703	0.862

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916272.D
Acq On : 10-04-19 20:30:00
Sample : 8011 5 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

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



Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916273.D\ECD1A.CH Vial: 73
 Signal #2 : G:\HERBIE\DATA\190916\0916273.D\ECD2B.CH
 Acq On : 10-04-19 20:50:31 Operator: MA,SS
 Sample : 8011 6 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	1681608	4103058	0.883	1.003
Spiked Amount	0.350		Recovery	=	252.29%	286.57%

Target Compounds

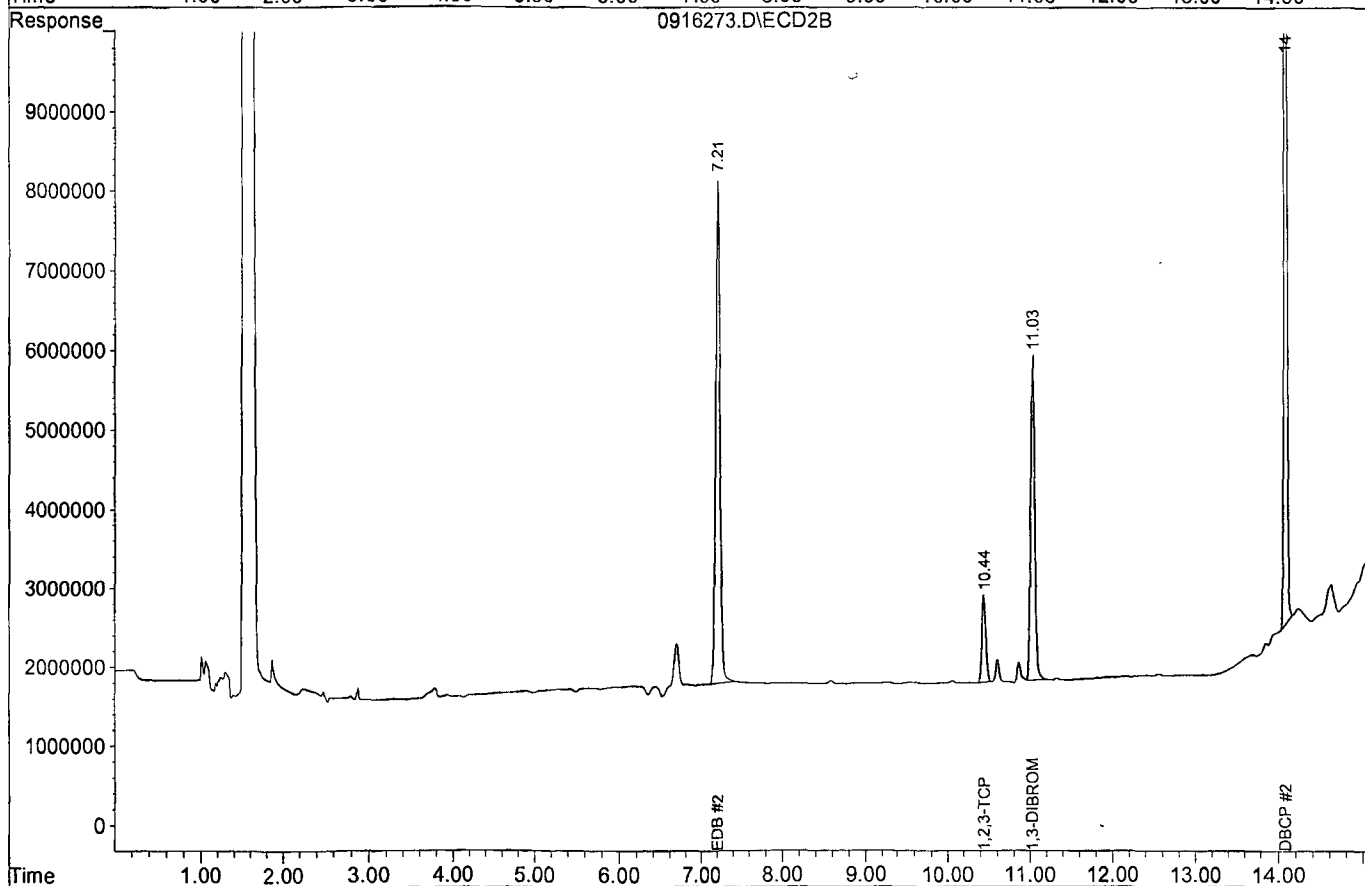
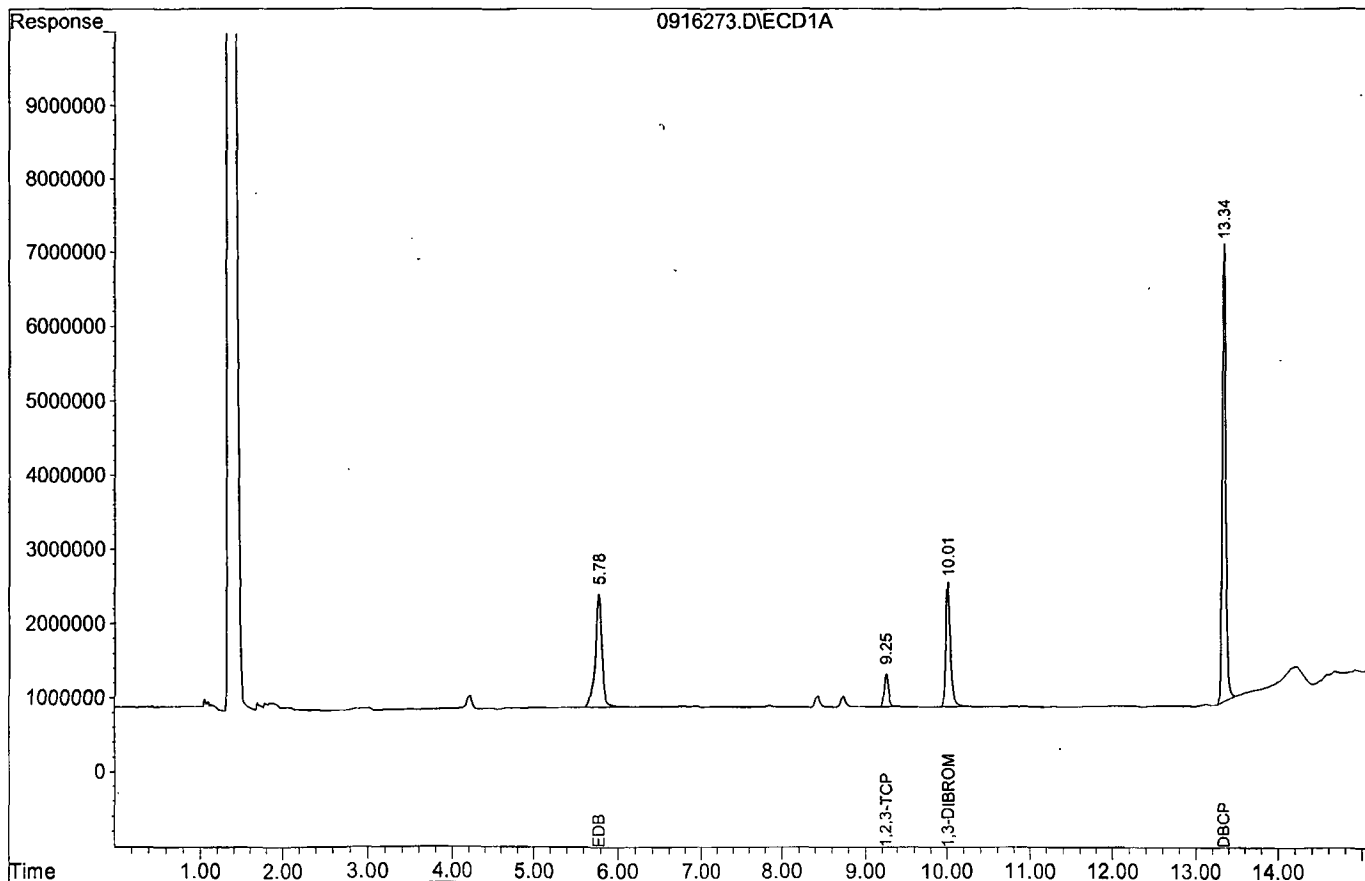
1) TM EDB	5.78	7.21	1521187	6324107	1.133	1.014
2) TM 1,2,3-TCP	9.25	10.44	444516	1109568	0.915	0.977
4) TM DBCP	13.34	14.08	6155722	19186607	0.963	1.180

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916273.D
Acq On : 10-04-19 20:50:31
Sample : 8011 6 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 73
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/04/19
Instrument: Herbie
Initial Cal. Date: 10/04/19
Data File: 0916274.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	802470	4.1	TM
2	TM	1,2,3-TCP	244943	232280	5.2	TM
3	TM	DBCP	3192970	2971730	6.9	TM
4						
5						
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36						
37						
38						
39						
40		Average			5.4	

Average

5.4

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/04/19

Matrix: Water

Instrument: Herbie

Cal. Date: 10/04/19

Data File: 0916274.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3269020	4.3	TM
42	TM	1,2,3-TCP	633618	597545	5.7	TM
43	TM	DBCP	9617350	8954430	6.9	TM
44						
45						
46						
47						
48						
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80						

Average

5.6

Quantitation Report (Not Reviewed)

Signal #1 : G:\HERBIE\DATA\190916\0916274.D\ECD1A.CH Vial: 74
 Signal #2 : G:\HERBIE\DATA\190916\0916274.D\ECD2B.CH
 Acq On : 10-04-19 21:10:52 Operator: MA,SS
 Sample : 8011 SS 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 6 12:40 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Tue Aug 13 10:40:23 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

3) S 1,3-DIBROMOPROPA	10.01	11.03	666463	1624406	0.350	0.397
Spiked Amount	0.350		Recovery	=	100.00%	113.43%

Target Compounds

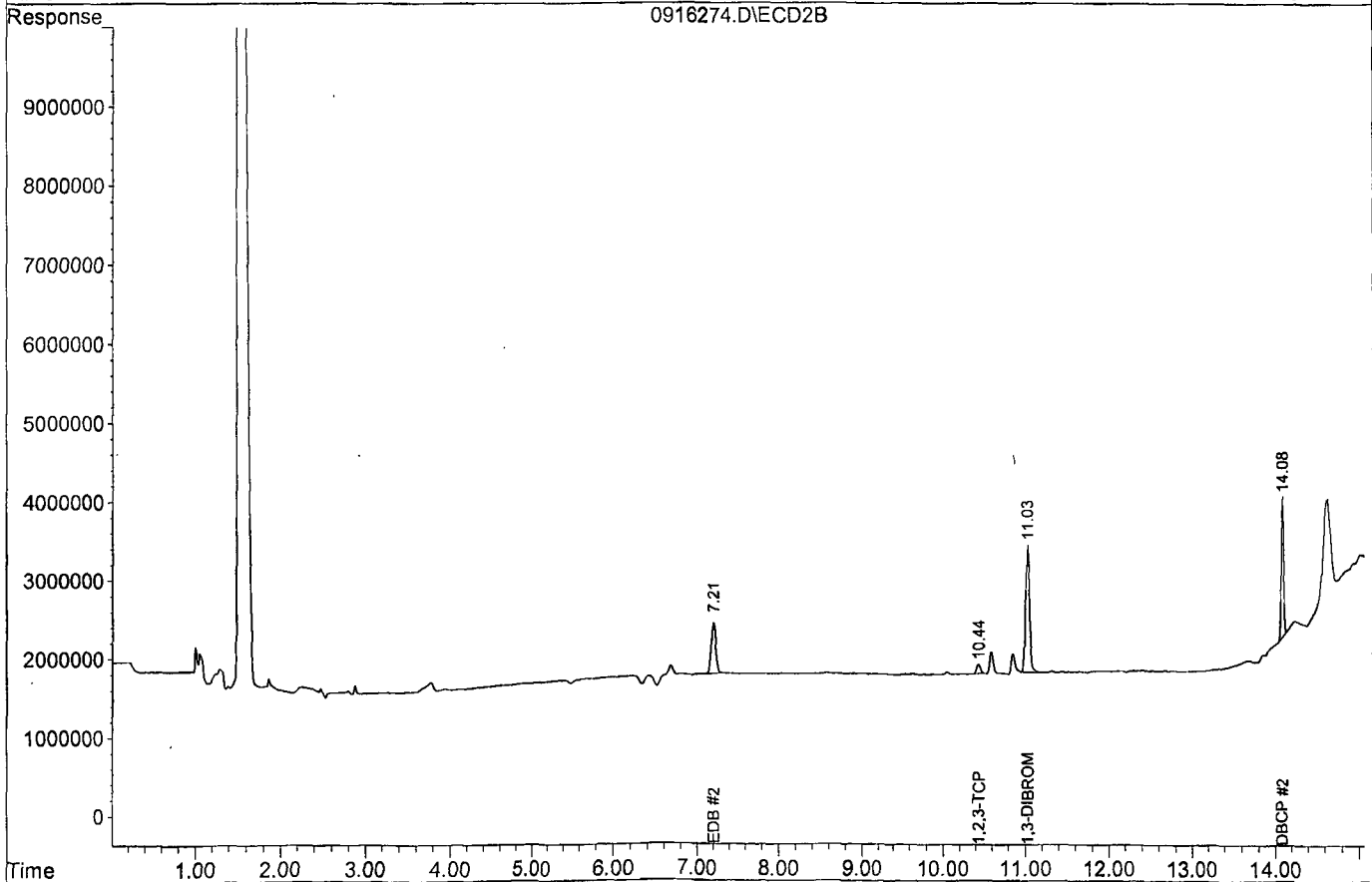
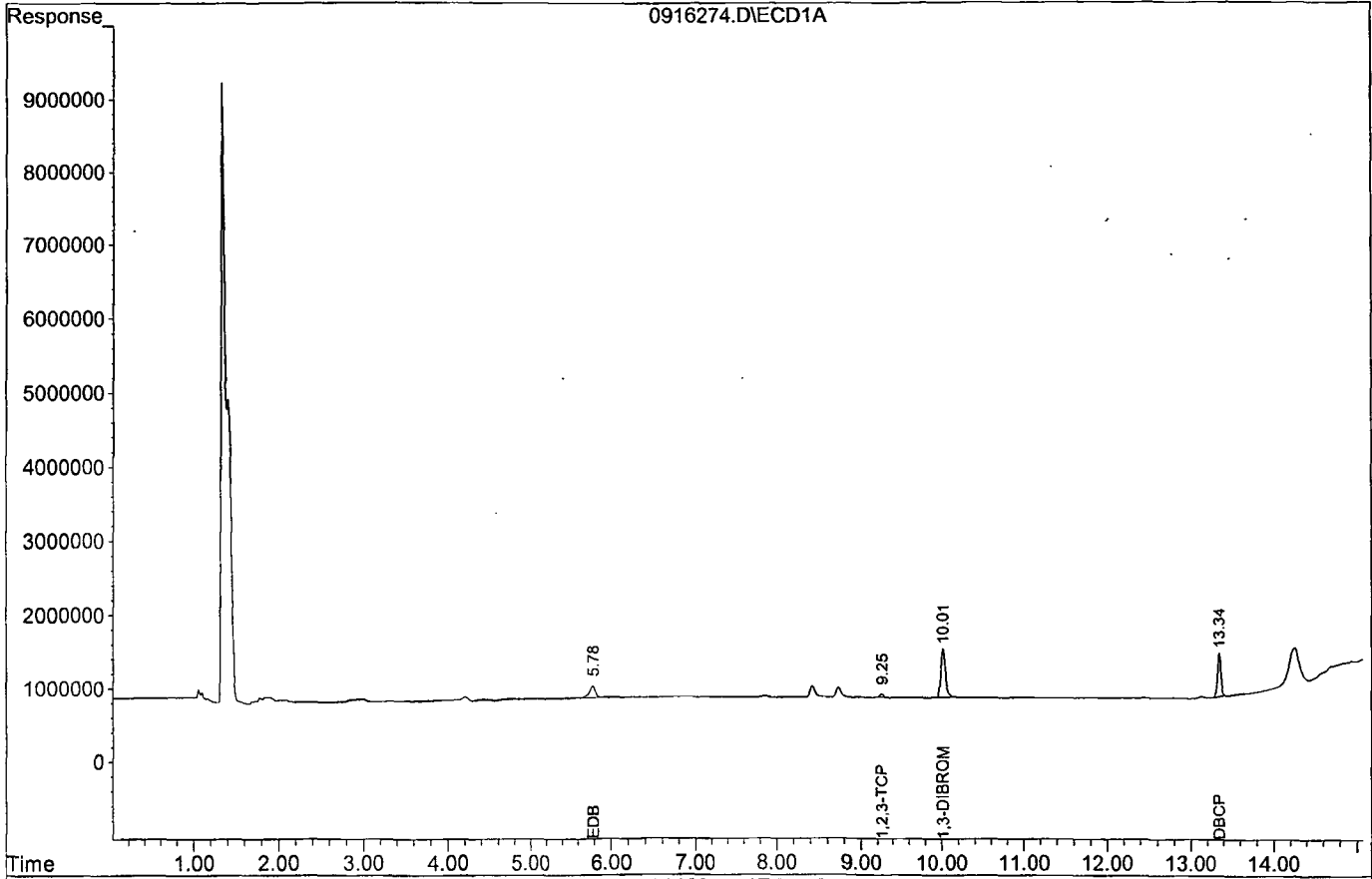
1) TM EDB	5.78	7.21	160494	653803	0.120	0.105
2) TM 1,2,3-TCP	9.25	10.44	46456	119509	0.096	0.105
4) TM DBCP	13.34	14.08	594345	1790886	0.093	0.110

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\190916\0916274.D
Acq On : 10-04-19 21:10:52
Sample : 8011 SS 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 74
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/29/19

Matrix: Water

Instrument: Herbie

Initial Cal. Date: 10/04/19

Data File: 1025067.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	826713	1.2	TM
2	TM	1,2,3-TCP	244943	229783	6.2	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	855894	6.1	S
4	TM	DBCP	3192970	2986610	6.5	TM
5						
6						
7						
8						
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36						
37						
38						
39						
40		Average			5.0	

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/29/19
Instrument: Herbie
Cal. Date: 10/04/19
Data File: 1025067.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3308900	3.1	TM
42	TM	1,2,3-TCP	633618	615052	2.9	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2169670	1.6	S
44	TM	DBCP	9617350	10380400	7.9	TM
45						
46						
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79						
80		Average			3.9	

Signal #1 : G:\HERBIE\DATA\191025\1025067.D\ECD1A.CH Vial: 67
 Signal #2 : G:\HERBIE\DATA\191025\1025067.D\ECD2B.CH
 Acq On : 10-29-19 20:29:50 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 8:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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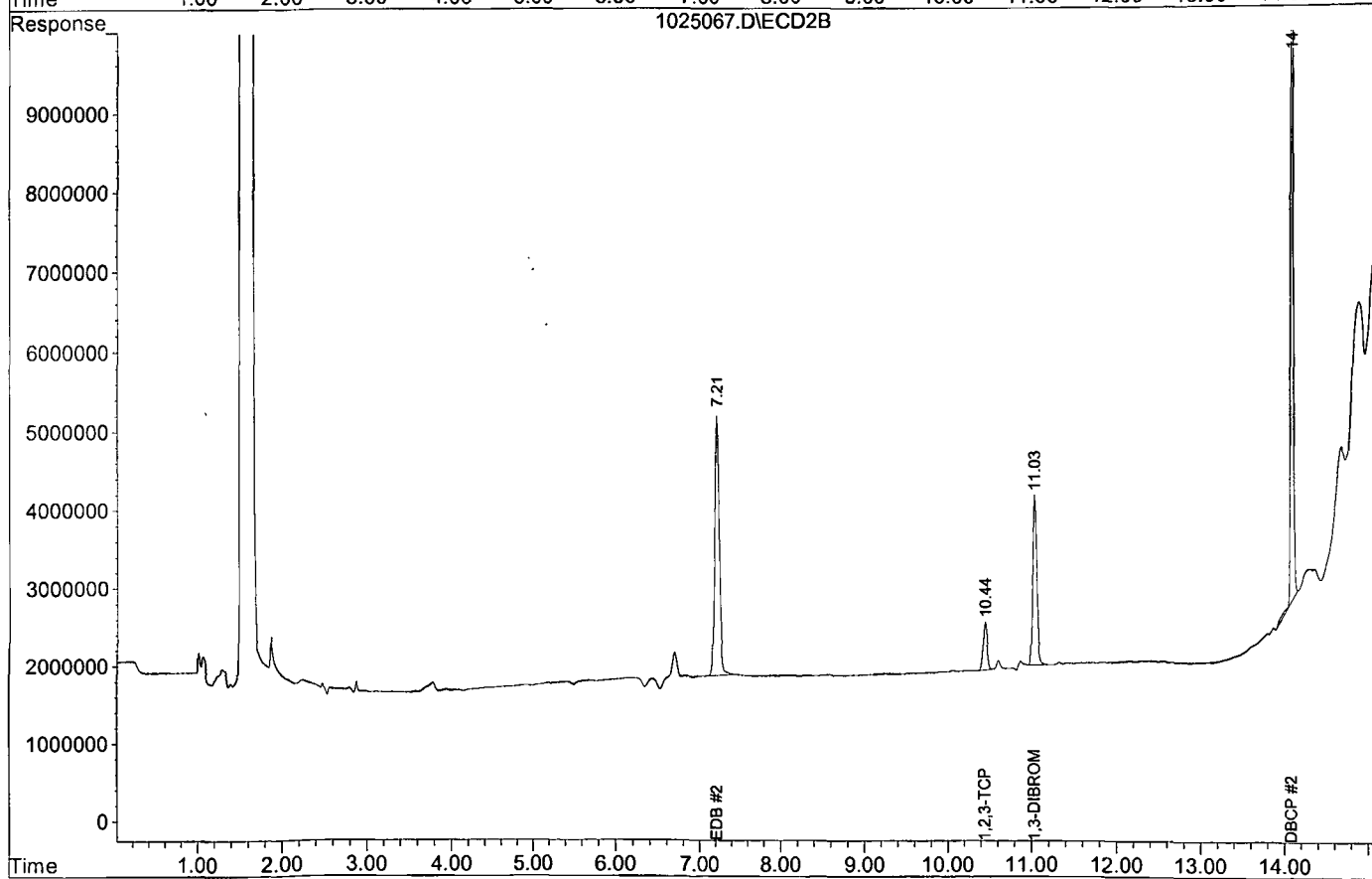
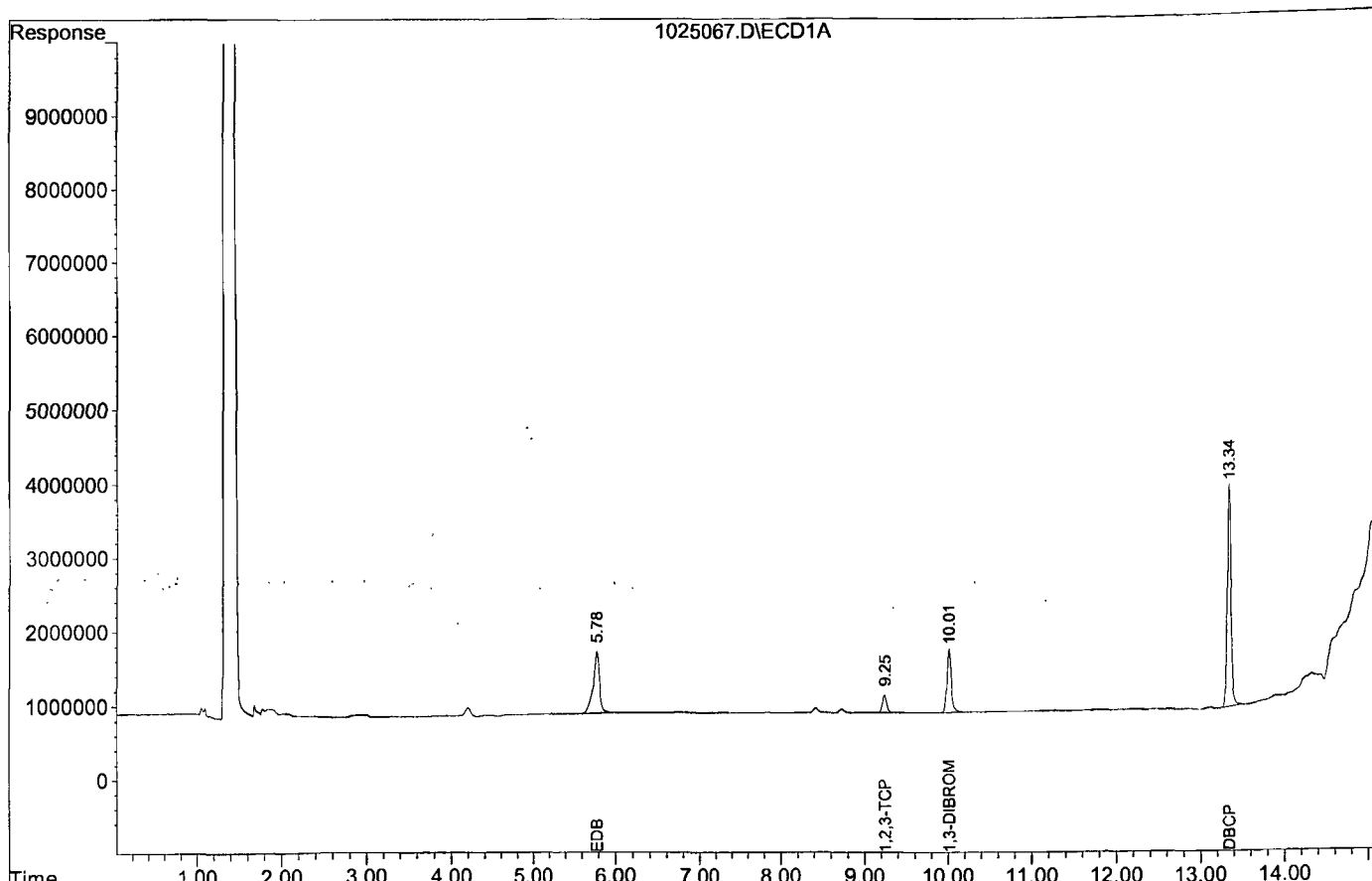
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	855894	2169672	0.469	0.492
	Spiked Amount	0.350		Recovery	=	134.00%	140.57%

Target Compounds							
1) TM	EDB	5.78	7.21	826713	3308899	0.494	0.484
2) TM	1,2,3-TCP	9.25	10.44	229783	615052	0.469	0.485
4) TM	DBCP	13.34	14.08	2986614	10380374	0.468	0.540

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025067.D
Acq On : 10-29-19 20:29:50
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 67
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Herbie
Initial Cal. Date: 10/04/19
Data File: 1025081.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	809069	3.4	TM
2	TM	1,2,3-TCP	244943	231093	5.7	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	903845	0.89	S
4	TM	DBCP	3192970	3030860	5.1	TM
5						
6						
7						
8						
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35						
36						
37						
38						
39						
40						

Average

3.8

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Herbie
Cal. Date: 10/04/19
Data File: 1025081.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3298620	3.4	TM
42	TM	1,2,3-TCP	633618	630069	0.56	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2232390	1.3	S
44	TM	DBCP	9617350	10650400	11	TM
45						
46						
47						
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75						
76						
77						
78						
79						
80		Average			4.1	

Signal #1 : G:\HERBIE\DATA\191025\1025081.D\ECD1A.CH Vial: 81
 Signal #2 : G:\HERBIE\DATA\191025\1025081.D\ECD2B.CH
 Acq On : 10-30-19 1:10:19 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 8:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds
 3) S 1,3-DIBROMOPROPA 10.02 11.03 903845 2232392 0.496 0.506
 Spiked Amount 0.350 Recovery = 141.71% 144.57%

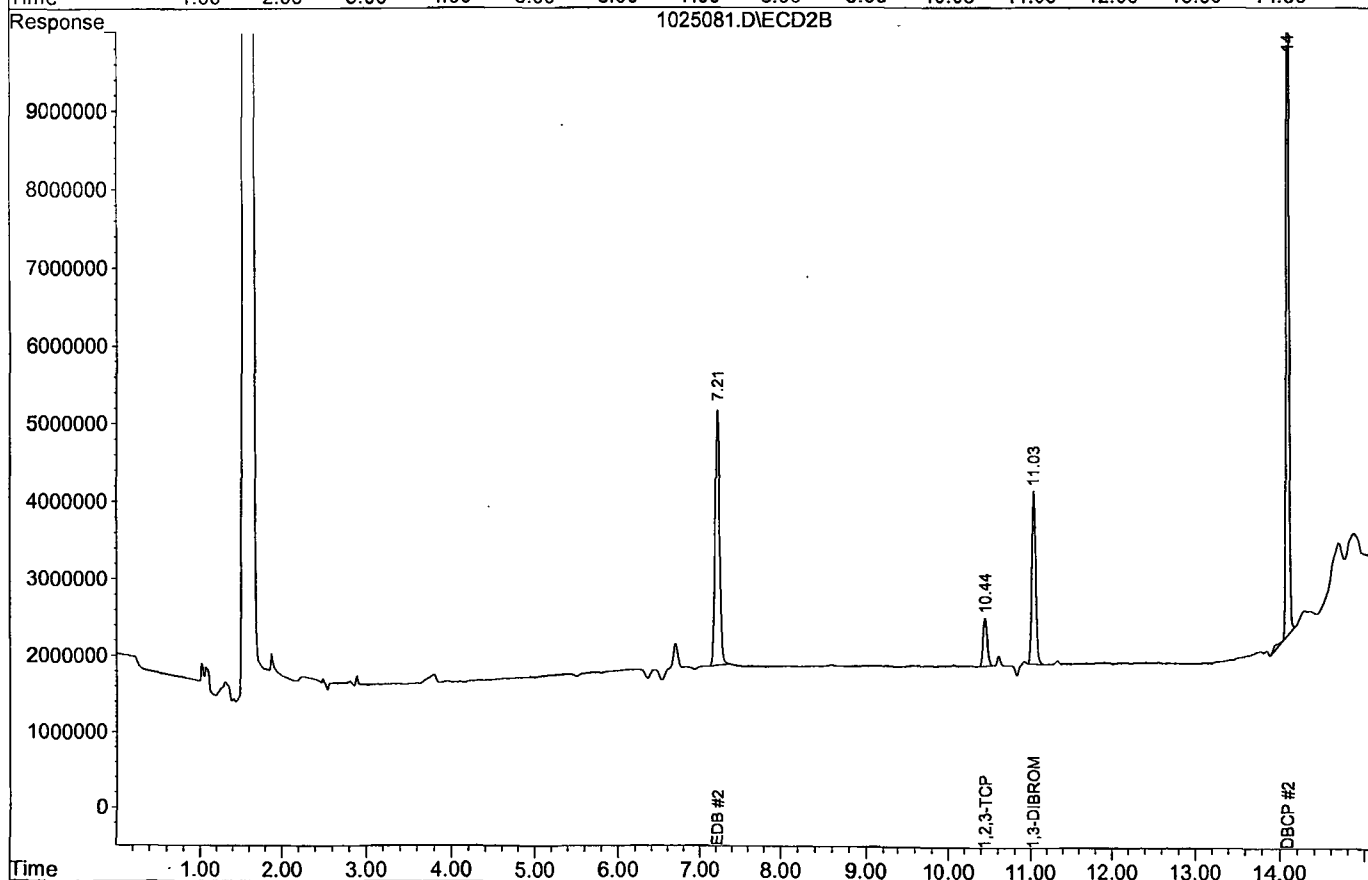
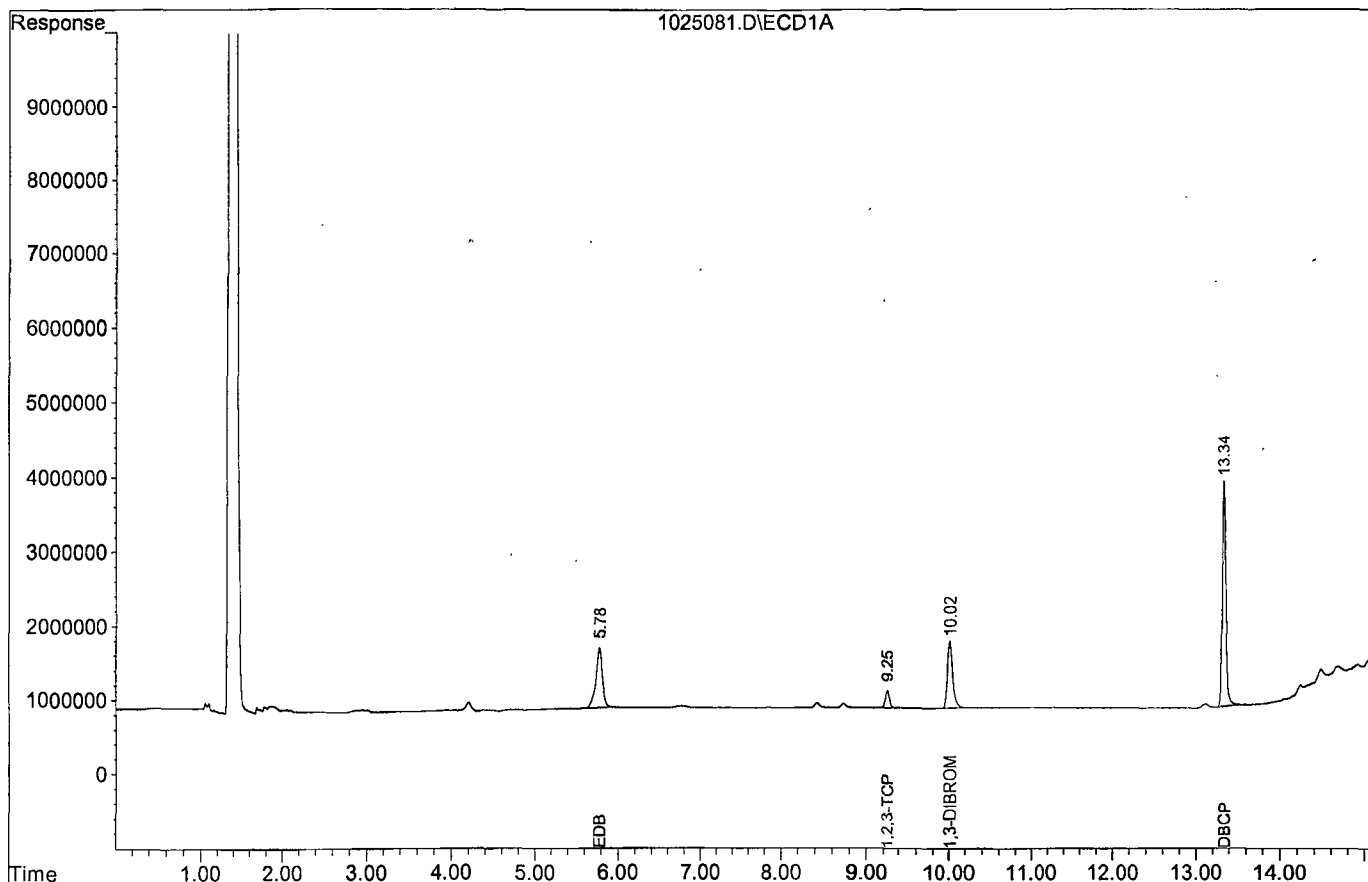
Target Compounds
 1) TM EDB 5.78 7.21 809069 3298623 0.483 0.483
 2) TM 1,2,3-TCP 9.25 10.44 231093 630069 0.472 0.497
 4) TM DBCP 13.34 14.08 3030855 10650388 0.475 0.554

Target Compounds

Quantitation Report (Not Reviewed)

Data File : G:\HERBIE\DATA\191025\1025081.D
Acq On : 10-30-19 1:10:19
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 81
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Herbie
Initial Cal. Date: 10/04/19
Data File: 1025087.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	EDB	837174	844464	0.87	TM
2	TM	1,2,3-TCP	244943	231396	5.5	TM
3	S	1,3-DIBROMOPROPANE(S)	911966	916272	0.47	S
4	TM	DBCP	3192970	3043250	4.7	TM
5						
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39						
40						

Average

2.9

DBCP/EDB/1,2,3-TCP Analysis by
504 8011

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/19
Instrument: Herbie
Cal. Date: 10/04/19
Data File: 1025087.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	EDB	3415500	3277900	4.0	TM
42	TM	1,2,3-TCP	633618	625751	1.2	TM
43	S	1,3-DIBROMOPROPANE(S)	2203970	2190480	0.61	S
44	TM	DBCP	9617350	10479400	9.0	TM
45						
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79						
80						

Average

3.7

Signal #1 : G:\HERBIE\DATA\191025\1025087.D\ECD1A.CH Vial: 81
 Signal #2 : G:\HERBIE\DATA\191025\1025087.D\ECD2B.CH
 Acq On : 10-30-19 3:10:06 Operator: MA,SS
 Sample : 8011 4 9/17/19 Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 8:20 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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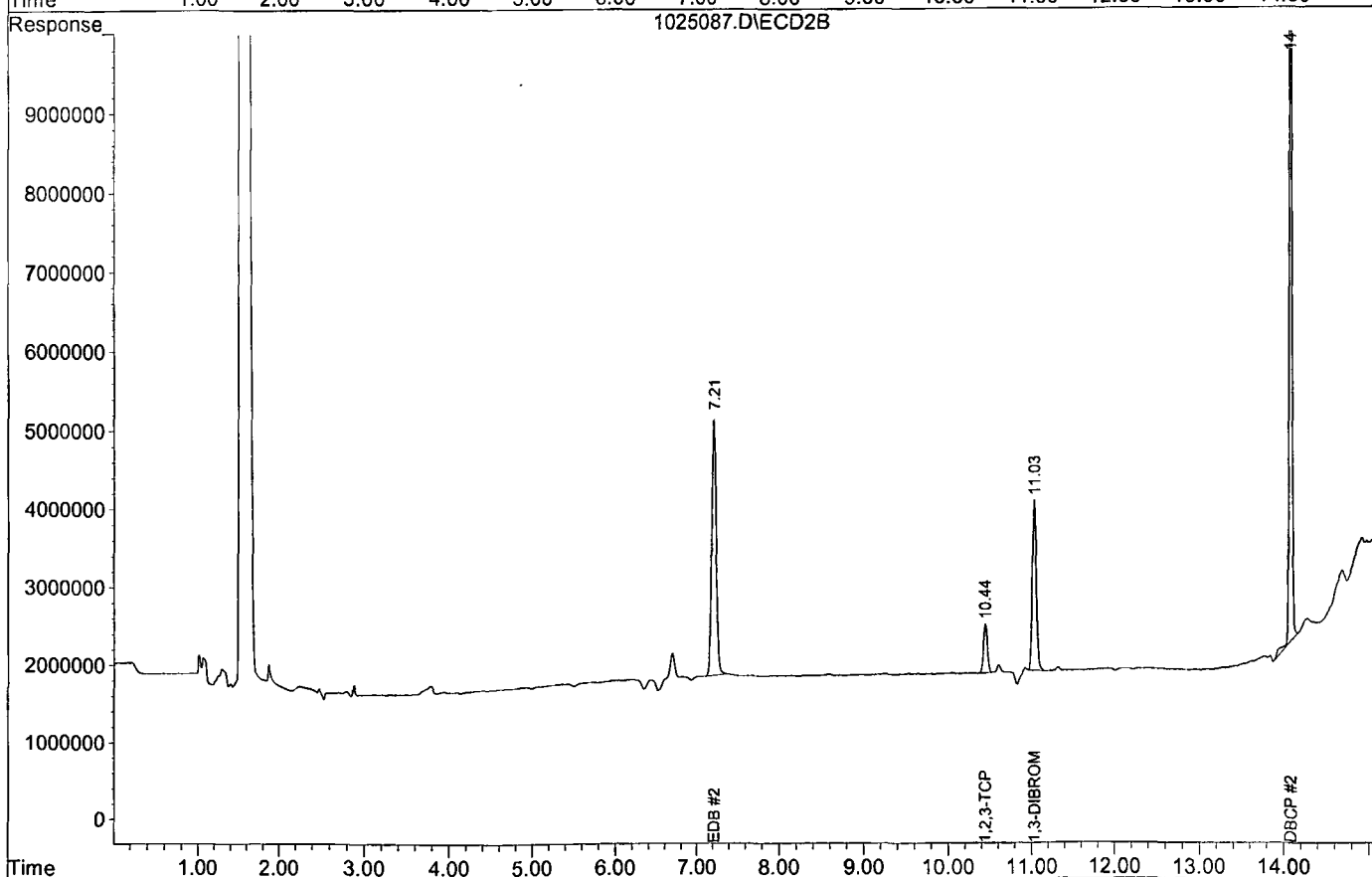
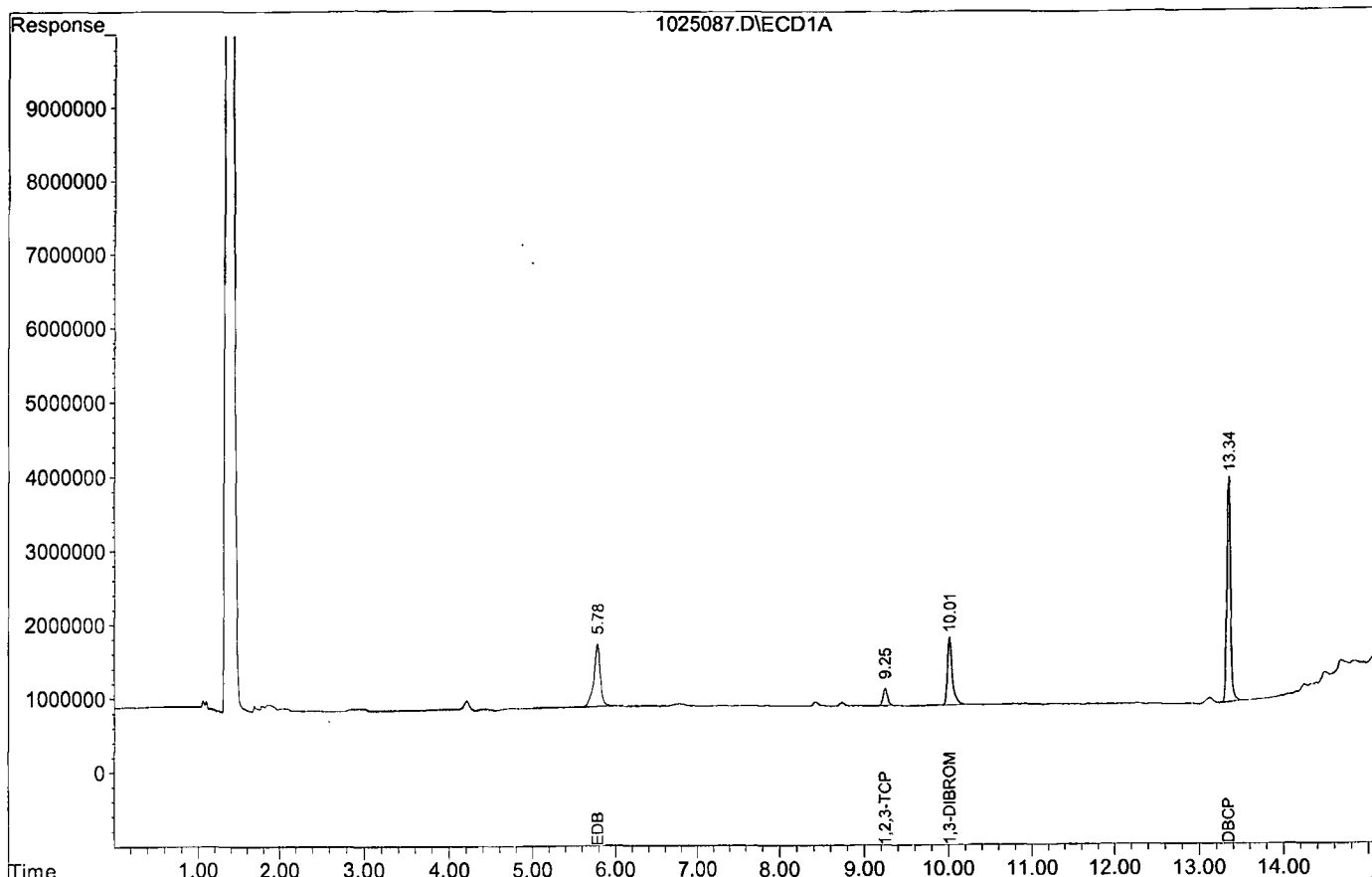
System Monitoring Compounds
 3) S 1,3-DIBROMOPROPA 10.01 11.03 916272 2190479 0.502 0.497
 Spiked Amount 0.350 Recovery = 143.43% 142.00%

Target Compounds
 1) TM EDB 5.78 7.21 844464 3277903 0.504 0.480
 2) TM 1,2,3-TCP 9.25 10.44 231396 625751 0.472 0.494
 4) TM DBCP 13.34 14.08 3043251 10479431 0.477 0.545

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025087.D
Acq On : 10-30-19 3:10:06
Sample : 8011 4 9/17/19
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 81
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



ORGANICS
Raw Data

Signal #1 : G:\HERBIE\DATA\191025\1025082.D\ECD1A.CH Vial: 82
 Signal #2 : G:\HERBIE\DATA\191025\1025082.D\ECD2B.CH
 Acq On : 10-30-19 1:30:13 Operator: MA,SS
 Sample : BA01830W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.98
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:23 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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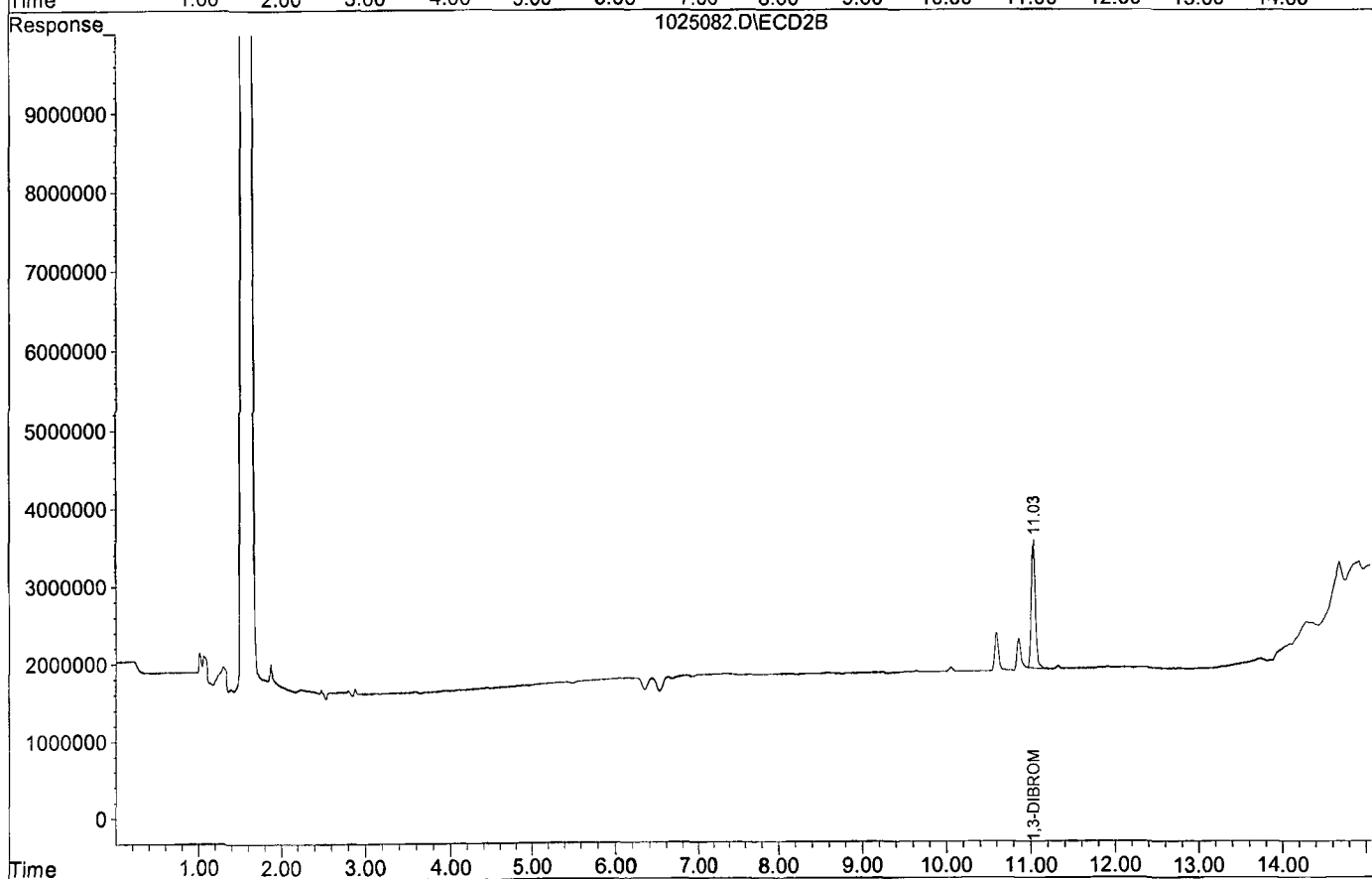
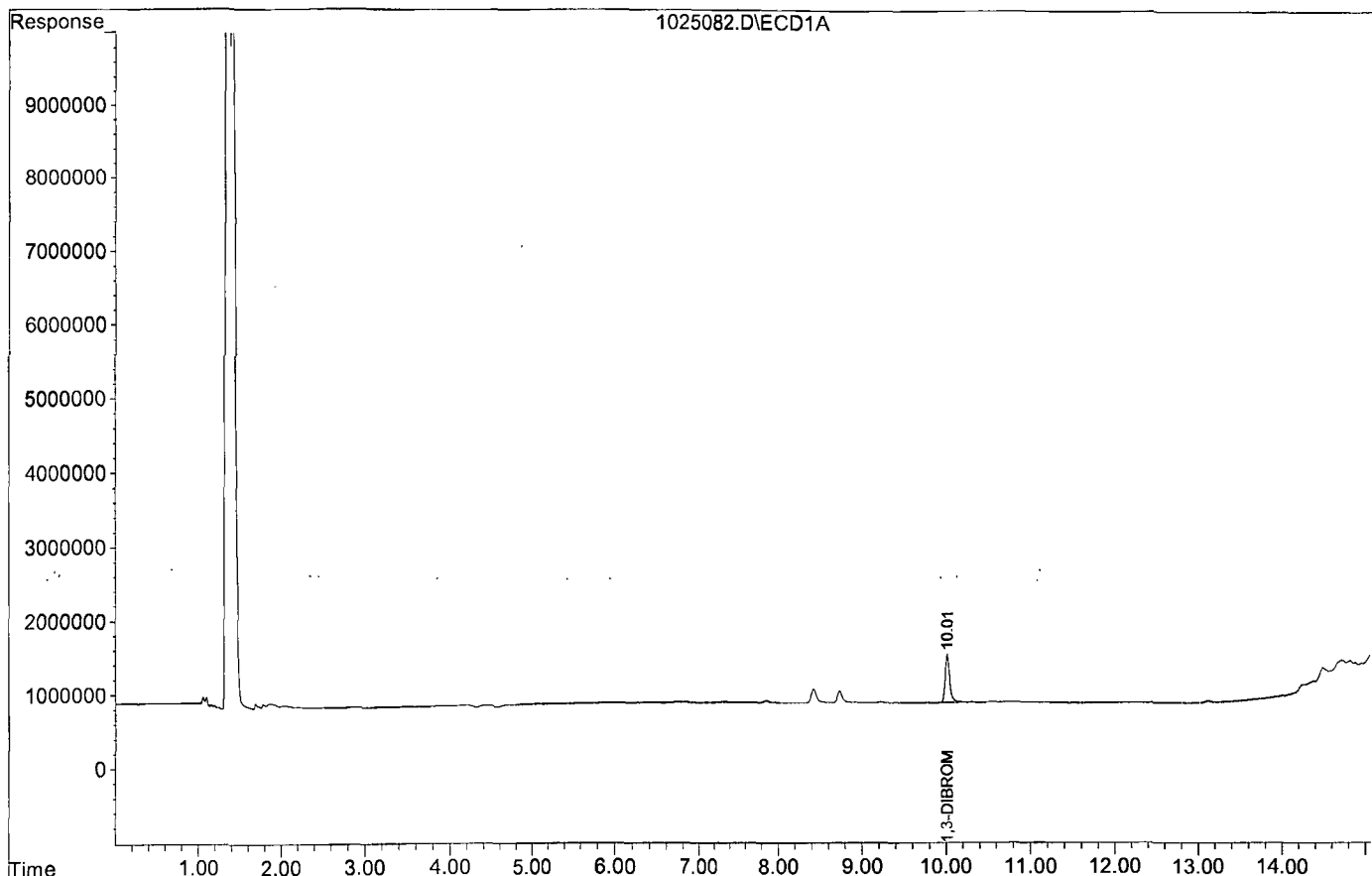
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	647929	1653896	0.350	0.369
	Spiked Amount	0.345		Recovery	=	101.57%	107.09%

Target Compounds

Target Compounds							
		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025082.D
Acq On : 10-30-19 1:30:13
Sample : BA01830W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 82
Operator: MA,SS
Inst : Herbie
Multiplr: 0.98



Signal #1 : G:\HERBIE\DATA\191025\1025083.D\ECD1A.CH Vial: 83
 Signal #2 : G:\HERBIE\DATA\191025\1025083.D\ECD2B.CH
 Acq On : 10-30-19 1:50:11 Operator: MA,SS
 Sample : BA01831W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:23 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds
 3) S 1,3-DIBROMOPROPA 10.01 11.03 667605 1669695 0.365 0.378
 Spiked Amount 0.349 Recovery = 104.46% 108.19%

Target Compounds

Target Compounds	RT#1	RT#2	0	0	N.D. d	N.D. d
1) TM EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM 1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025083.D

Vial: 83

Acq On : 10-30-19 1:50:11

Operator: MA,SS

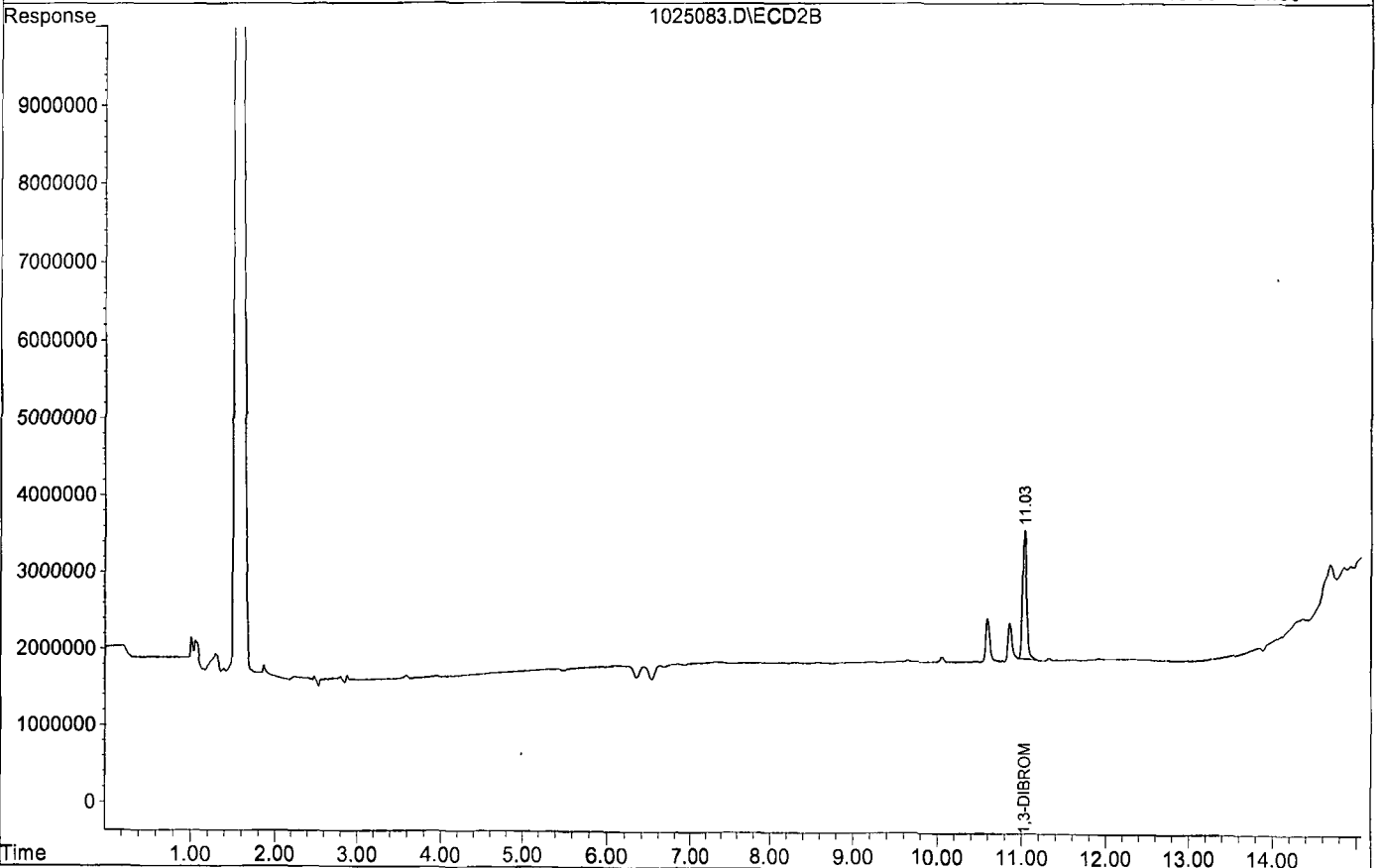
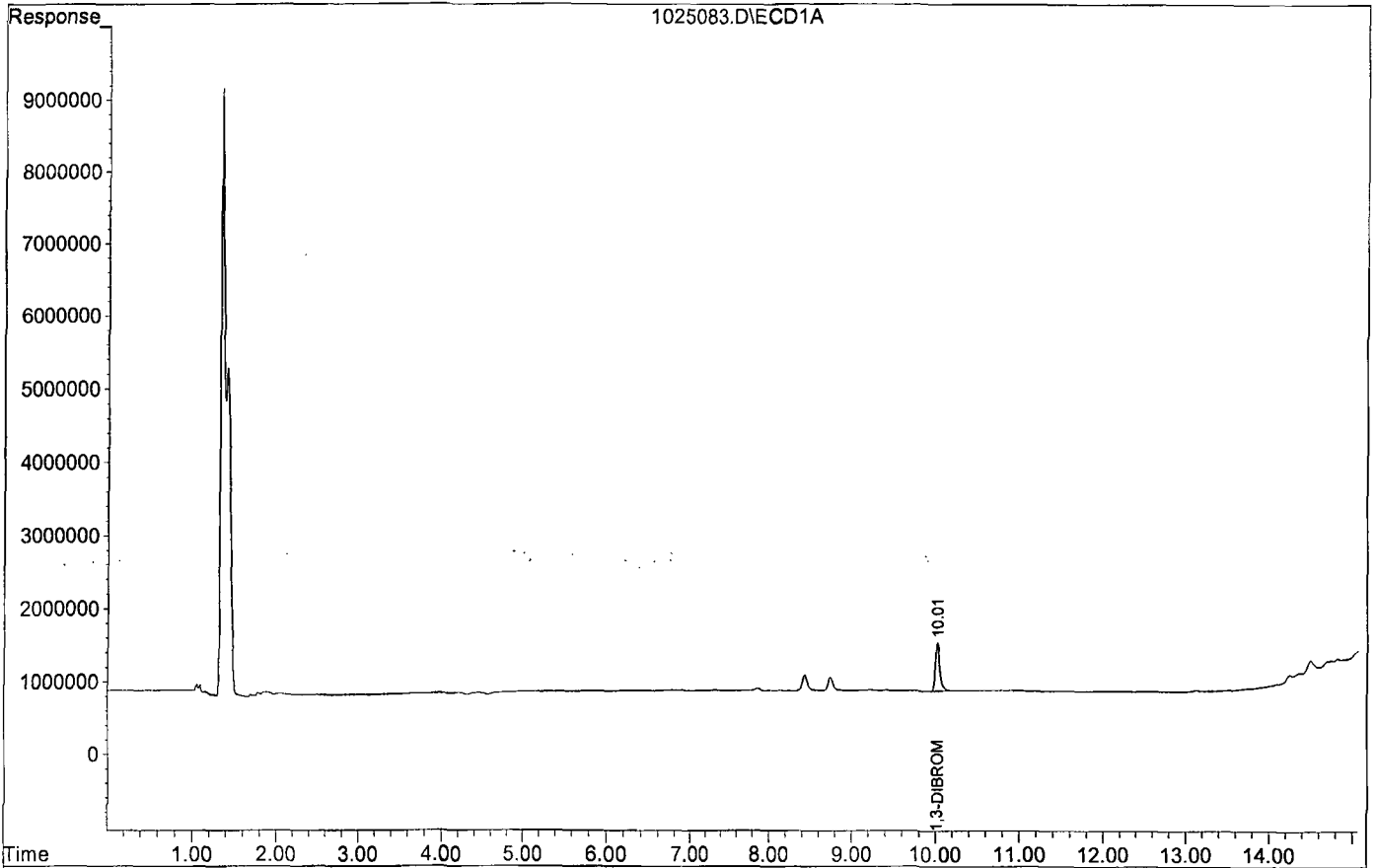
Sample : BA01831W01 2/35.00G

Inst : Herbie

Misc : water

Multiplr: 1.00

Quant Method : G:\HERBIE\DATA\190916\8011917A.M



Quantitation Report (QT Reviewed)

Signal #1 : G:\HERBIE\DATA\191025\1025084.D\ECD1A.CH Vial: 84
 Signal #2 : G:\HERBIE\DATA\191025\1025084.D\ECD2B.CH
 Acq On : 10-30-19 2:10:08 Operator: MA,SS
 Sample : BA01832W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:24 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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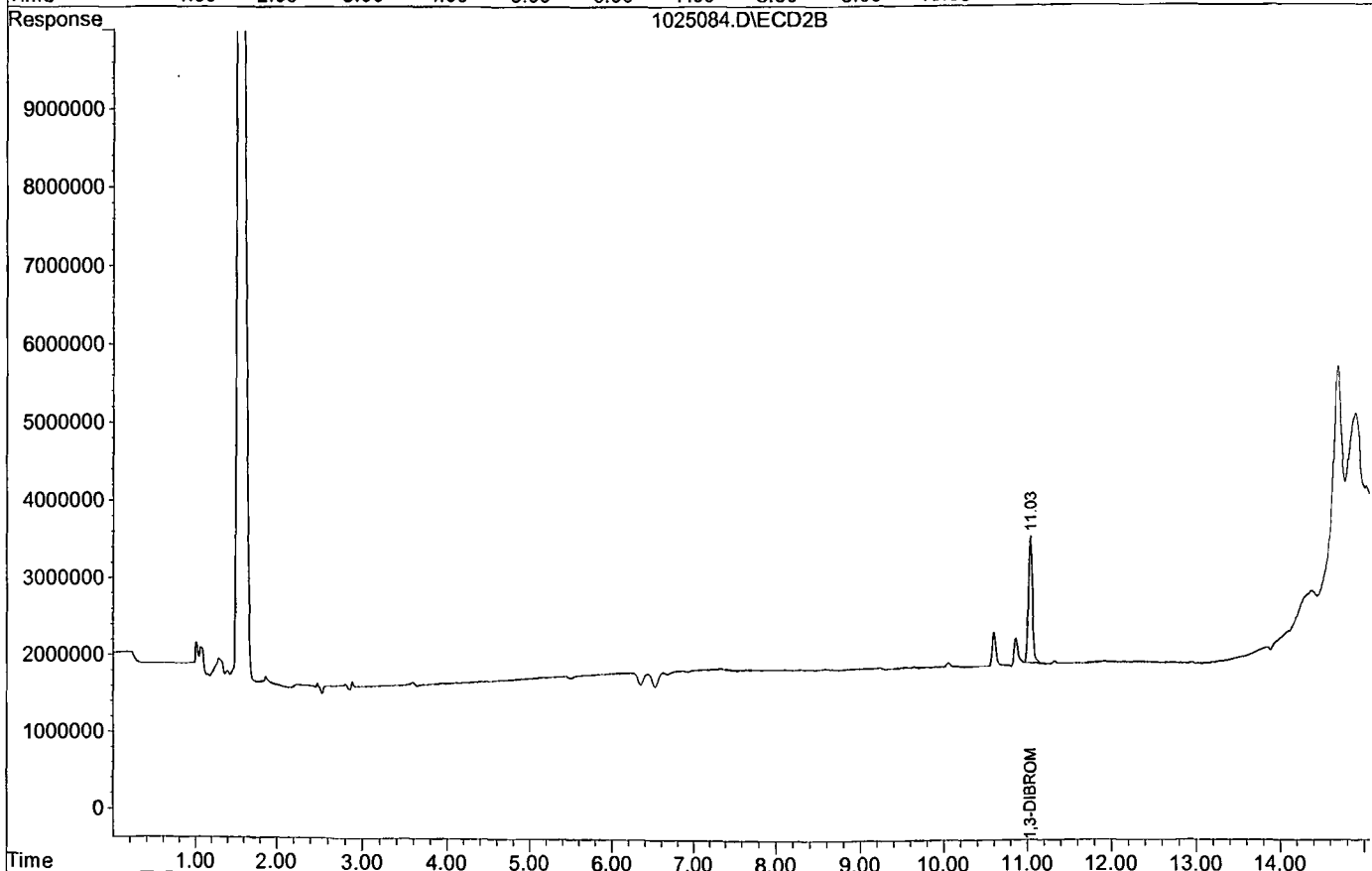
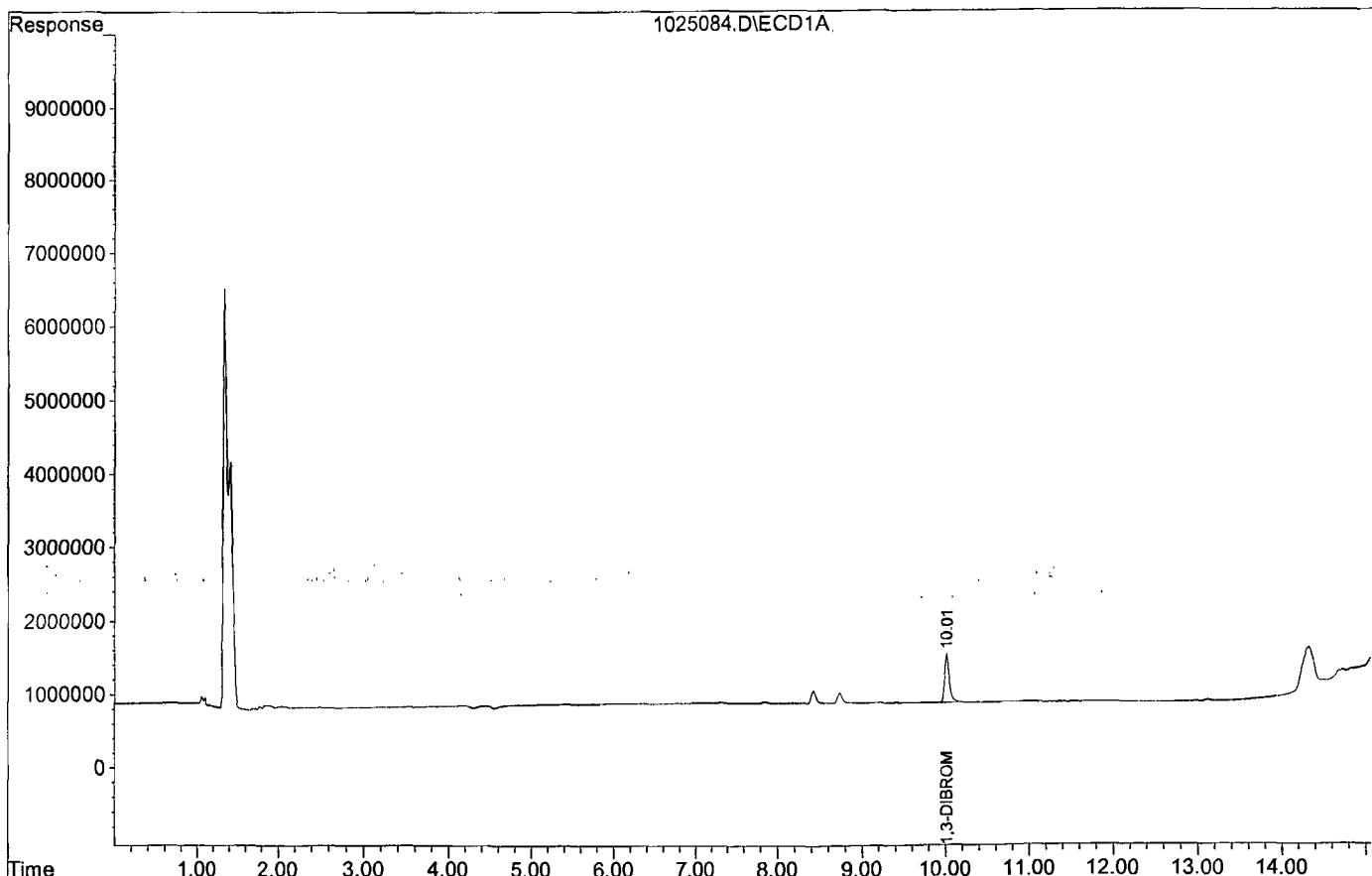
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	660828	1634704	0.361	0.370
Spiked Amount	0.349		Recovery	=	103.47%	106.05%

Target Compounds

Target Compounds						
1) TM	EDB	0.00	0.00	0	0	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d

Data File : G:\HERBIE\DATA\191025\1025084.D
Acq On : 10-30-19 2:10:08
Sample : BA01832W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 84
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025085.D\ECD1A.CH Vial: 85
 Signal #2 : G:\HERBIE\DATA\191025\1025085.D\ECD2B.CH
 Acq On : 10-30-19 2:30:07 Operator: MA,SS
 Sample : BA01833W01 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.99
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:27 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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System Monitoring Compounds

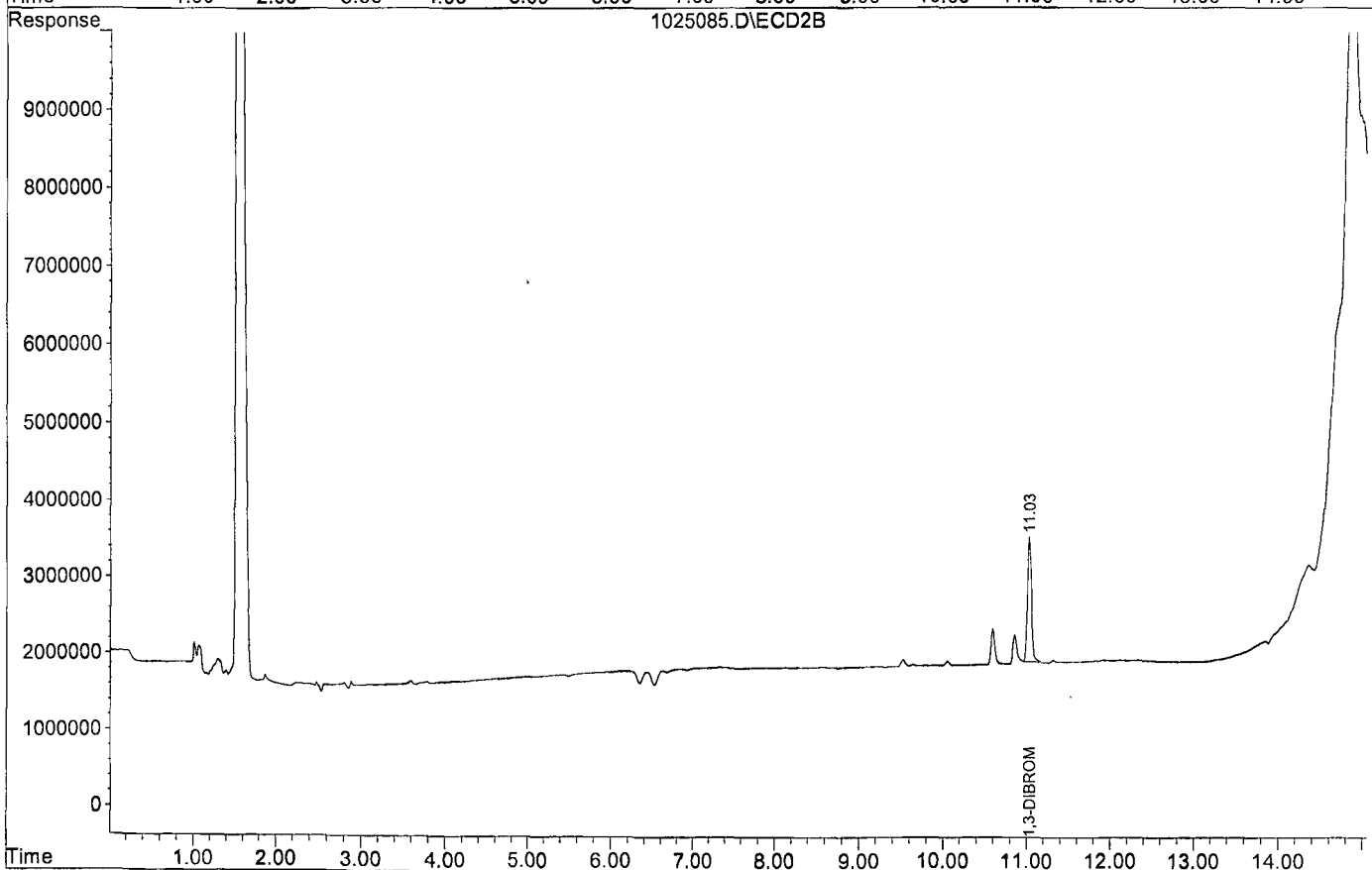
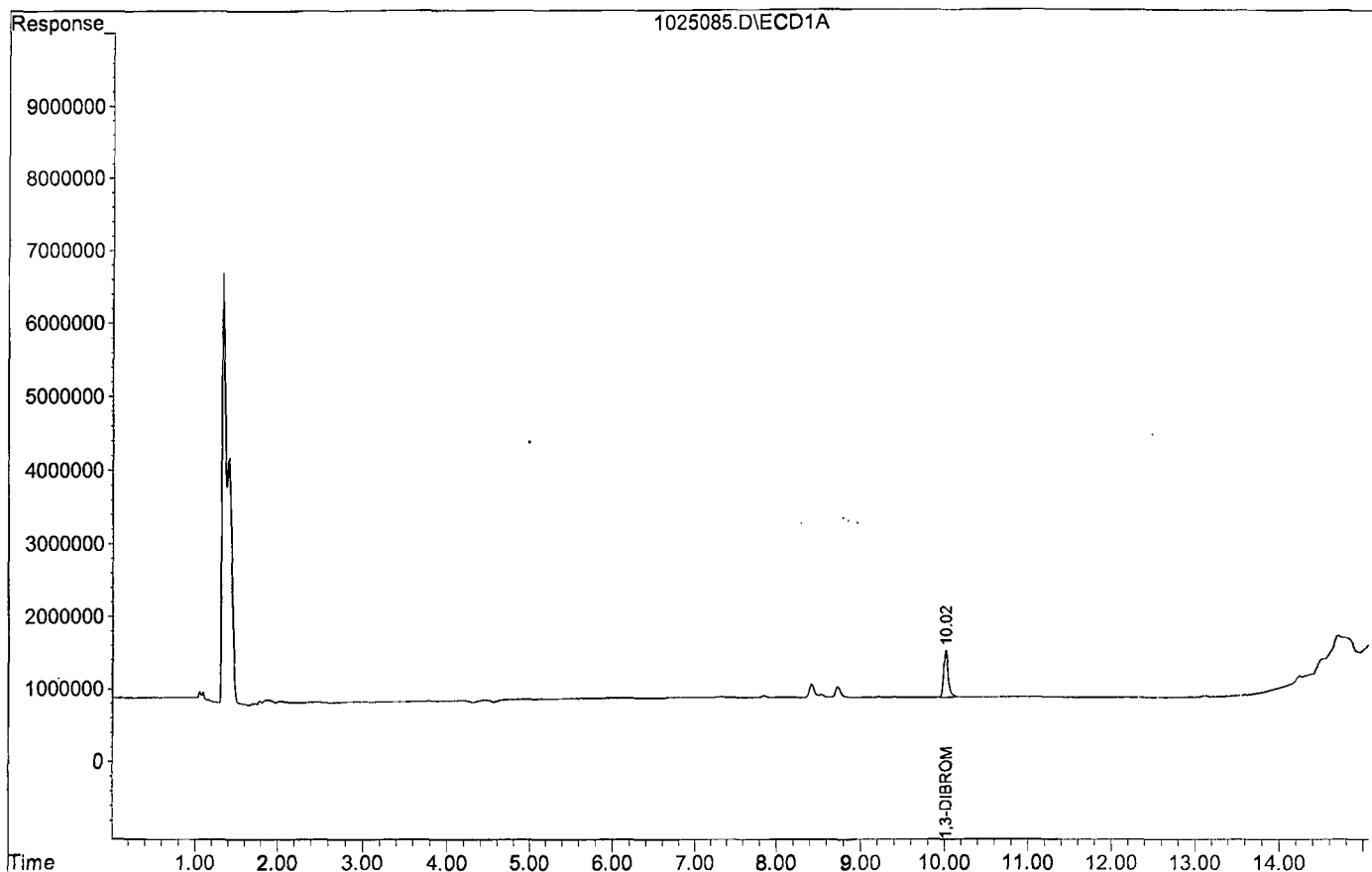
3) S	1,3-DIBROMOPROPA	10.02	11.03	649185	1618262	0.352	0.363
	Spiked Amount	0.346		Recovery	=	101.61%	104.78%

Target Compounds

Target Compounds		RT#1	RT#2	0	0	N.D. d	N.D. d
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025085.D
Acq On : 10-30-19 2:30:07
Sample : BA01833W01 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 85
Operator: MA,SS
Inst : Herbie
Multiplr: 0.99



Signal #1 : G:\HERBIE\DATA\191025\1025068.D\ECD1A.CH Vial: 68
 Signal #2 : G:\HERBIE\DATA\191025\1025068.D\ECD2B.CH
 Acq On : 10-29-19 20:49:55 Operator: MA,SS
 Sample : 191028A BLK 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:16 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
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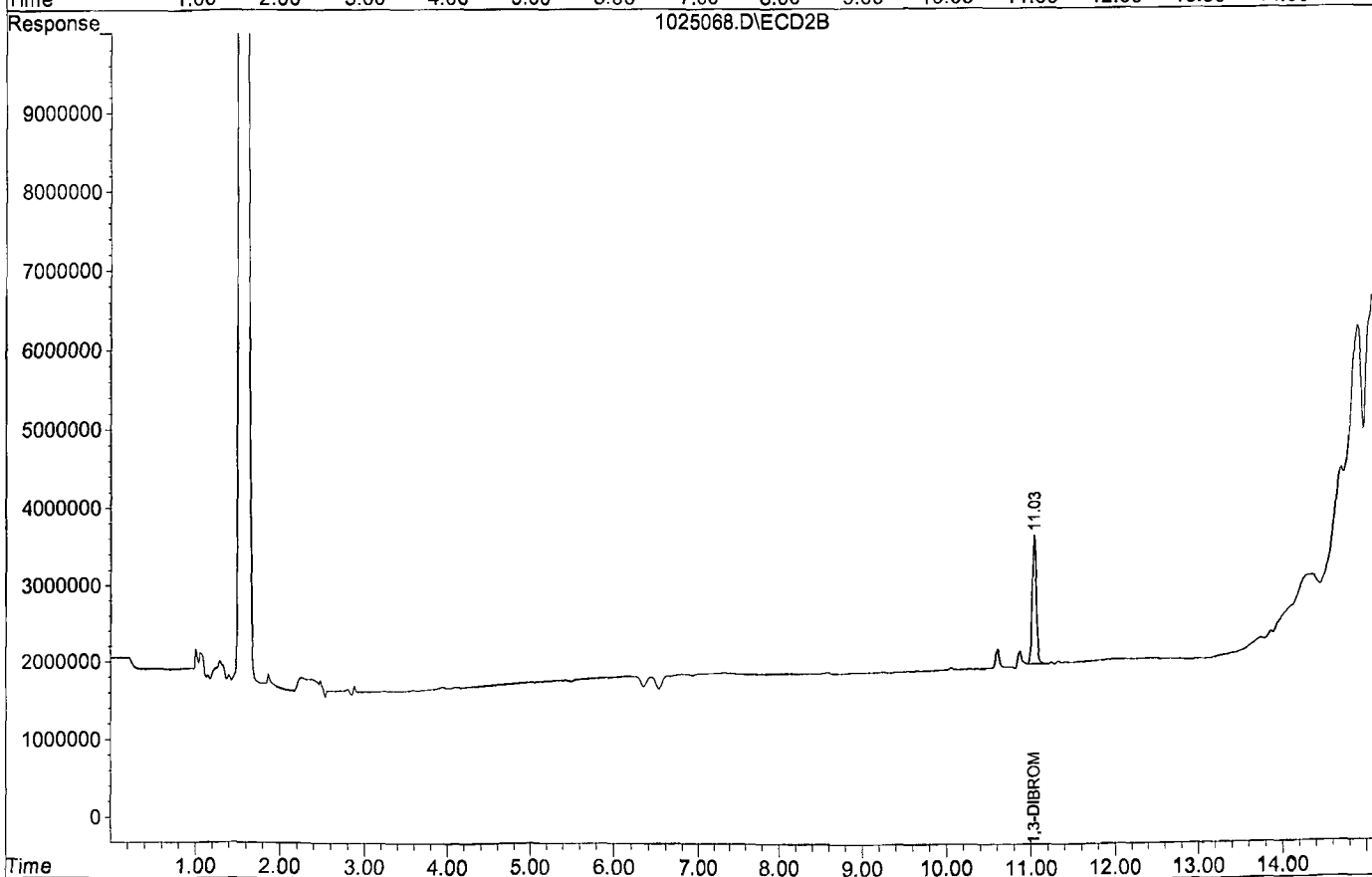
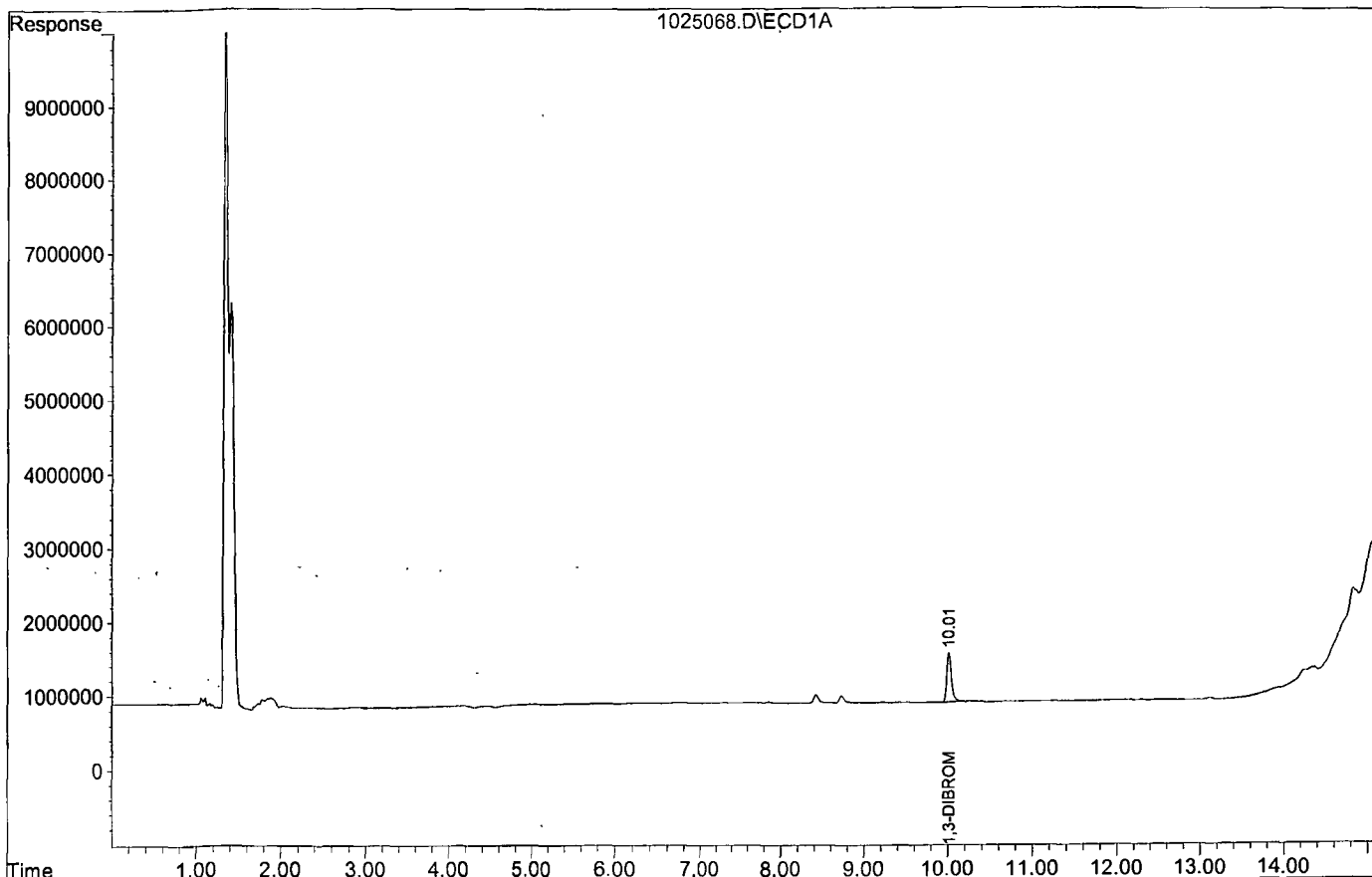
System Monitoring Compounds							
3) S	1,3-DIBROMOPROPA	10.01	11.03	663555	1651808	0.363	0.374
	Spiked Amount	0.349		Recovery	=	104.01%	107.16%

Target Compounds

Target Compounds							
		RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) TM	EDB	0.00	0.00	0	0	N.D. d	N.D. d
2) TM	1,2,3-TCP	0.00	0.00	0	0	N.D. d	N.D. d
4) TM	DBCP	0.00	0.00	0	0	N.D. d	N.D. d

Data File : G:\HERBIE\DATA\191025\1025068.D
Acq On : 10-29-19 20:49:55
Sample : 191028A BLK 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 68
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025069.D\ECD1A.CH Vial: 69
 Signal #2 : G:\HERBIE\DATA\191025\1025069.D\ECD2B.CH
 Acq On : 10-29-19 21:09:59 Operator: MA,SS
 Sample : 191028A LCS-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 1.00
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:10 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

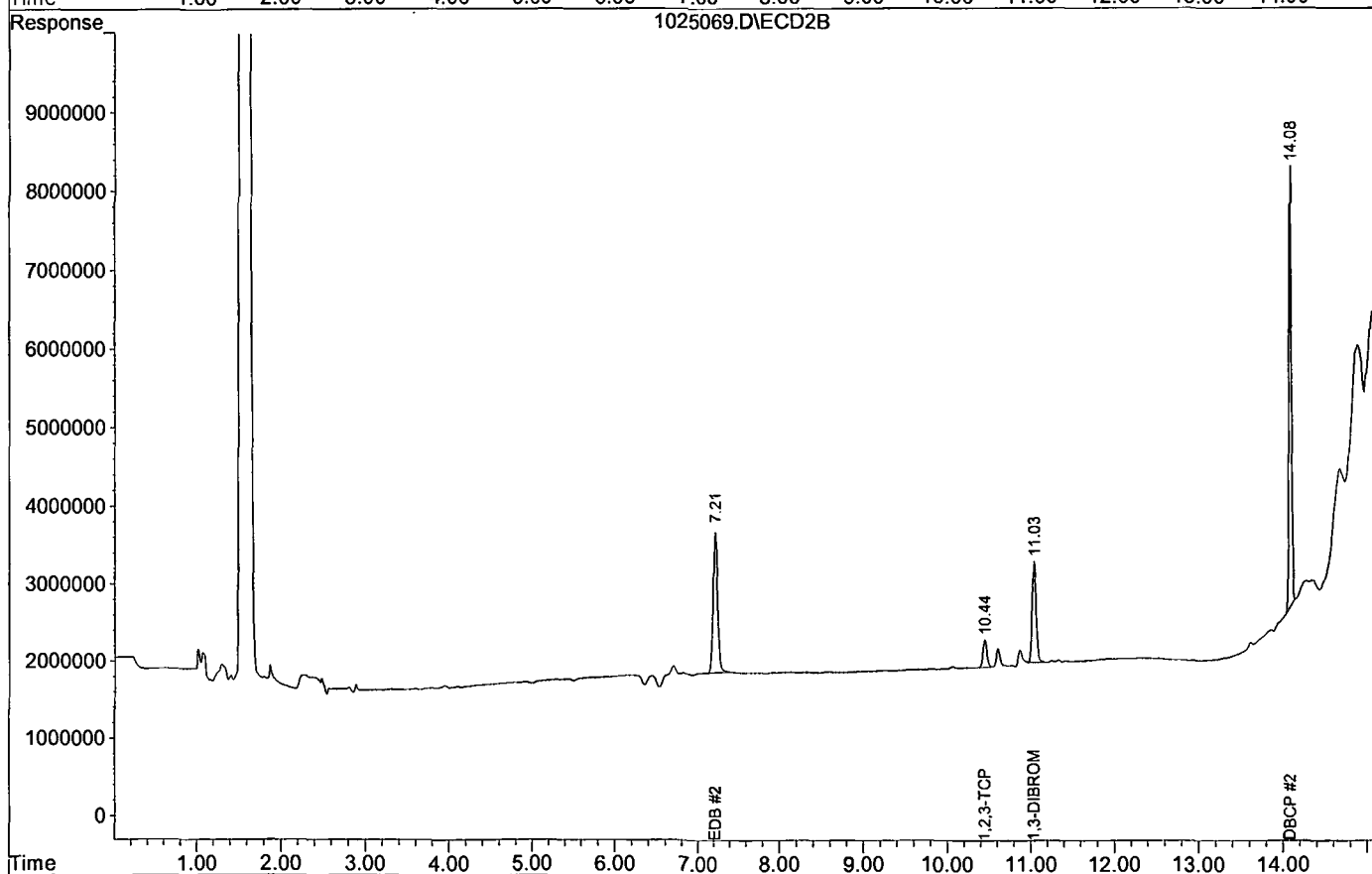
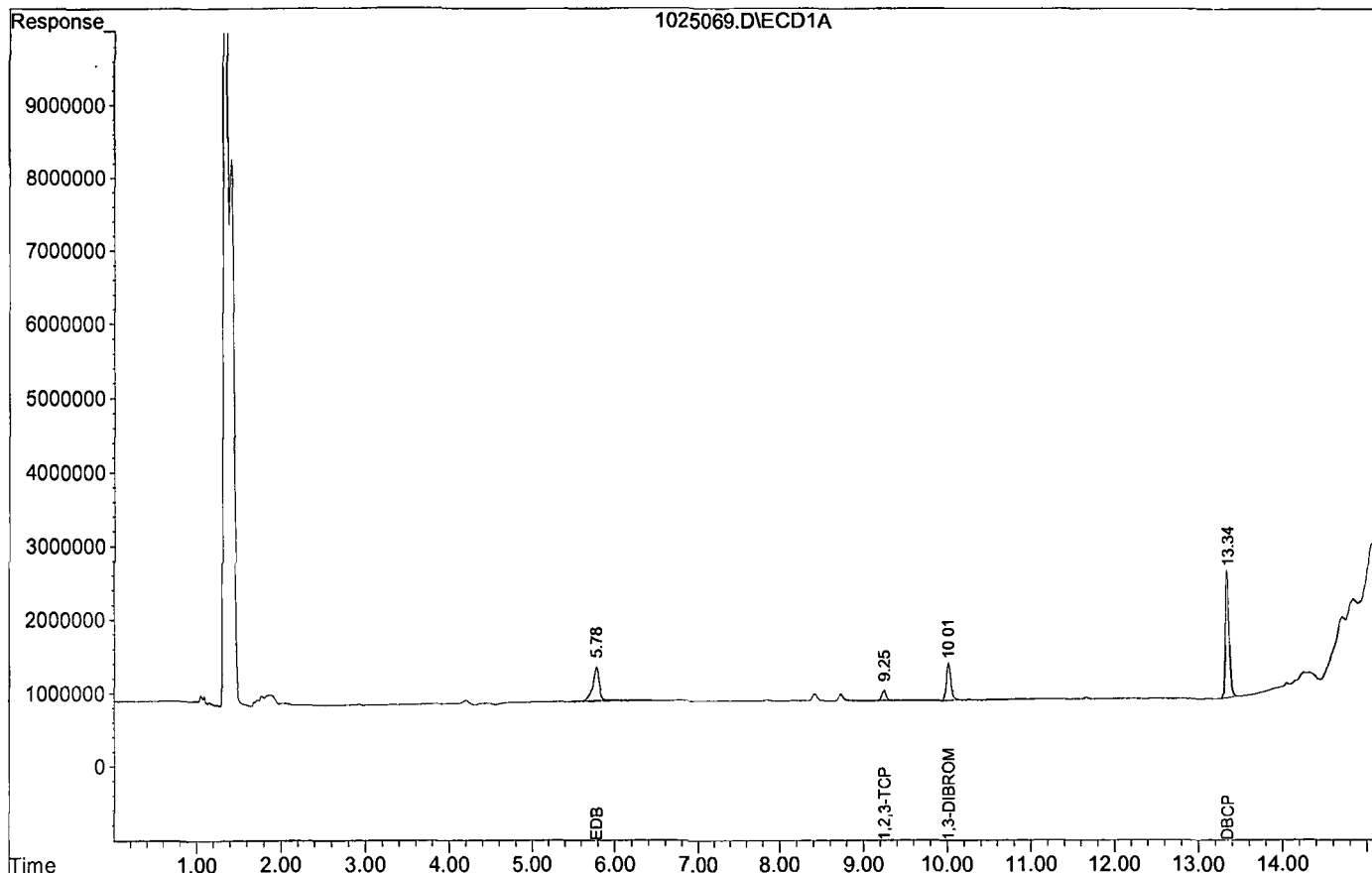
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	503322	1304384	0.275	0.295
Spiked Amount	0.349		Recovery	=	78.84%	84.57%
Target Compounds						
1) TM EDB	5.78	7.21	455986	1806548	0.271	0.264
2) TM 1,2,3-TCP	9.25	10.44	133925	356898	0.272	0.281
4) TM DBCP	13.34	14.08	1717318	5597880	0.268	0.290

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025069.D
Acq On : 10-29-19 21:09:59
Sample : 191028A LCS-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 69
Operator: MA,SS
Inst : Herbie
Multiplr: 1.00



Signal #1 : G:\HERBIE\DATA\191025\1025070.D\ECD1A.CH Vial: 70
 Signal #2 : G:\HERBIE\DATA\191025\1025070.D\ECD2B.CH
 Acq On : 10-29-19 21:30:06 Operator: MA,SS
 Sample : 191028A LCSD-1 2/35.00G Inst : Herbie
 Misc : water Multiplr: 0.98
 IntFile Signal #1: rteint.p IntFile Signal #2: rteint2.p
 Quant Time: Oct 30 14:10 2019 Quant Results File: 8011917A.RES

Quant Method : G:\HERBIE\DATA\190916\8011917A.M (RTE Integrator)
 Title : 504.1 OR 8011
 Last Update : Sun Oct 06 12:43:10 2019
 Response via : Initial Calibration
 DataAcq Meth : DOHS504.M

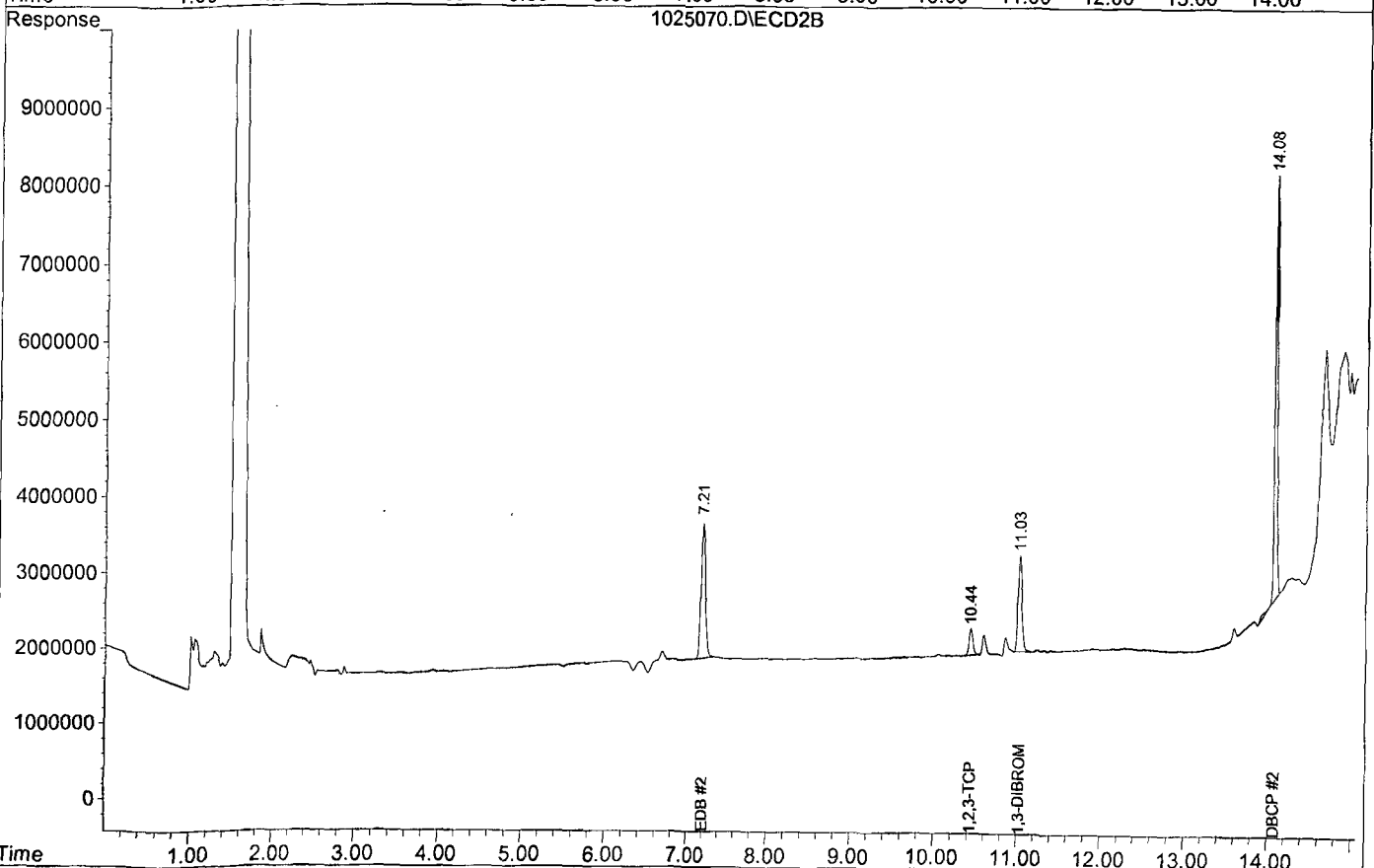
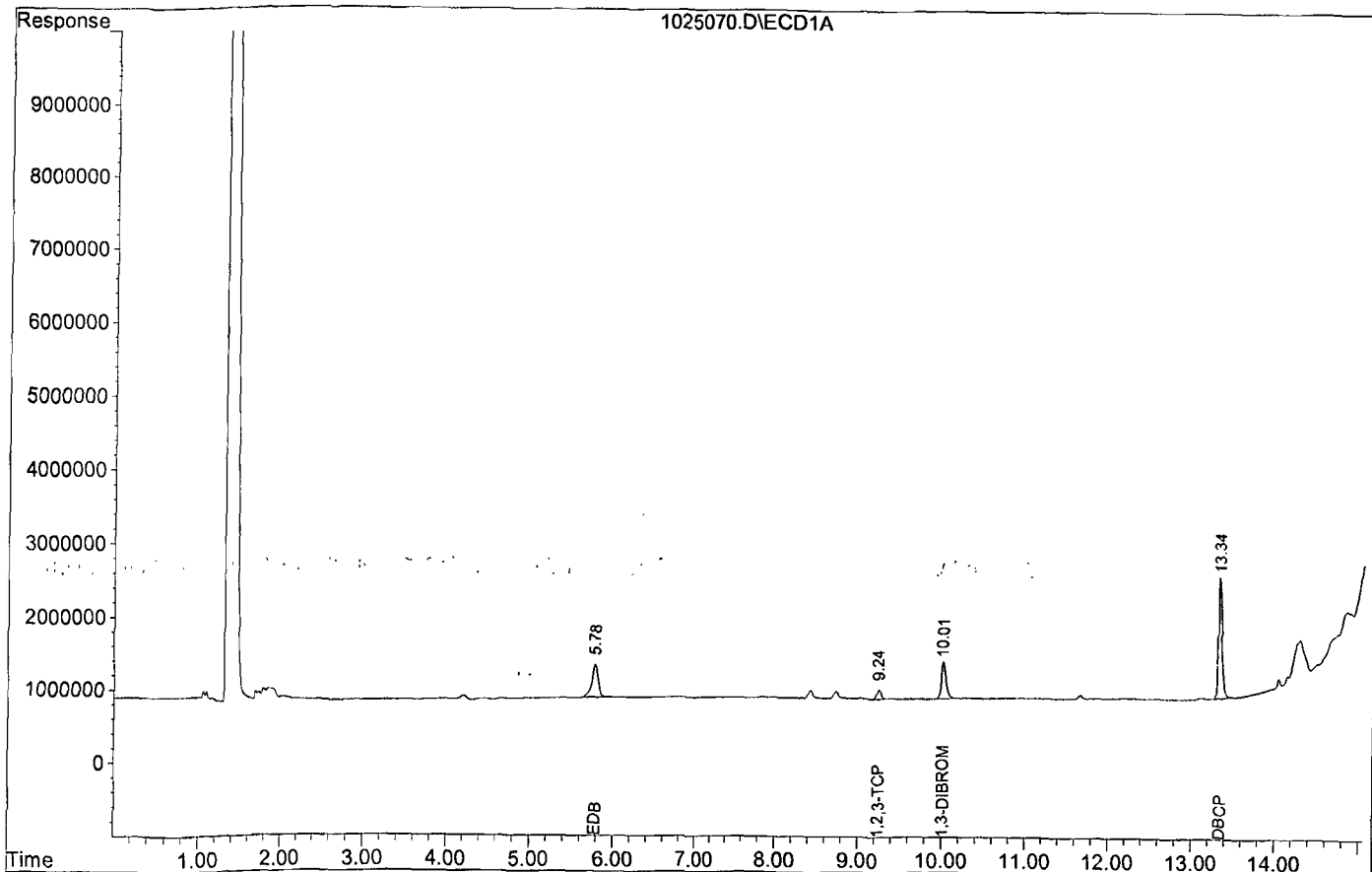
Volume Inj. : 2µL
 Signal #1 Phase : DB-35MS Signal #2 Phase: DB-XLB
 Signal #1 Info : 0.25 Signal #2 Info : 0.50

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
3) S 1,3-DIBROMOPROPA	10.01	11.03	506052	1264980	0.273	0.282
Spiked Amount	0.344		Recovery	=	79.29%	81.91%
Target Compounds						
1) TM EDB	5.78	7.21	450438	1768656	0.265	0.255
2) TM 1,2,3-TCP	9.24	10.44	131056	347754	0.263	0.270
4) TM DBCP	13.34	14.08	1663213	5480489	0.256	0.280

Target Compounds

Data File : G:\HERBIE\DATA\191025\1025070.D
Acq On : 10-29-19 21:30:06
Sample : 191028A LCSD-1 2/35.00G
Misc : water
Quant Method : G:\HERBIE\DATA\190916\8011917A.M

Vial: 70
Operator: MA,SS
Inst : Herbie
Multiplr: 0.98



Name of Final Standard 504/8011 Stock
 Prep Date 09/09/19
 Exp Date 01/06/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/DOHS Stock	APPL	504/DOHS Stock	20 ug/mL	05/07/19	04/10/20	175 uL	10 mL	Methanol #208858	0.35 ug/mL
1,3 DBP Stock	APPL	1,3 DBP Stock	100 ug/mL	05/07/19	01/06/20	35 uL			

Name of Final Standard 504/8011 Spike
 Prep Date 09/09/19
 Exp Date 01/06/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
504/8011 Stock	APPL	504/8011 Stock	0.35 ug/mL	09/09/19	01/06/20	1000 uL	10 mL	Methanol #208858	0.035 ug/mL

Name of Final Standard 504/8011 Surrogate
 Prep Date 09/04/19
 Exp Date 01/06/19

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1,3 DBP	APPL	1,3 DBP Stock	100 ug/mL	05/07/19	01/06/20	35 uL	10 mL	Methanol #208858	0.35ug/ml

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	191028A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 M. SPIKE 09/19/19 EXP 01/06/20	Surrogate ID 1	504.1 Surrogate 09/04/19 EXP 01/06/20				
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:					
Spiked ID 7		Ext. Start Time:		10/28/19 16:05			
Spiked ID 8		Ext. End Time:		10/29/19 12:00			
		GC Requires Extract By:					
		pH1		Water Bath Temp 1 °C			
		pH2		Water Bath Temp 2 °C			
		pH3		Water Bath Temp 3 °C			

Spiked By: DL

Date 10/28/19 4:05:00 PM

Witnessed By: DS

Date 10/28/19 4:05:00 PM

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	191028A Blk			0.035	1	35.10g	2	7	10/28/19 16:05	
2	191028A LCS-1	0.250	1	NA	NA	35.12g	2	7	10/28/19 16:05	
3	191028A LCSD-1	0.250	1	NA	NA	35.58g	2	7	10/28/19 16:05	
4	BA01322 BA01322W04			0.035	1	35.19g	2	7	10/28/19 16:05	90472 RX
5	BA01349 BA01349W01			0.035	1	35.68g	2	7	10/28/19 16:05	90481 RX
6	BA01661 BA01661W06			0.035	1	35.57g	2	7	10/28/19 16:05	90532
7	BA01662 BA01662W05			0.035	1	35.48g	2	7	10/28/19 16:05	90532
8	BA01663 BA01663W07			0.035	1	35.61g	2	7	10/28/19 16:05	90532
9	BA01664 BA01664W07			0.035	1	35.42g	2	7	10/28/19 16:05	90532
10	BA01780 BA01780W06			0.035	1	35.34g	2	7	10/28/19 16:05	90551
11	BA01781 BA01781W04			0.035	1	35.19g	2	7	10/28/19 16:05	90551
12	BA01782 BA01782W04			0.035	1	35.20g	2	7	10/28/19 16:05	90551
13	BA01784 BA01784W05			0.035	1	35.04g	2	7	10/28/19 16:05	90551
14	BA01830 BA01830W05			0.035	1	35.55	2	7	10/29/19 11:10	90559
15	BA01831 BA01831W05			0.035	1	35.06g	2	7	10/29/19 11:10	90559
16	BA01832 BA01832W07			0.035	1	35.11g	2	7	10/29/19 11:10	90559

Solvent and Lot#	
ph strip	HC863463
NaCL	19A035211
GC2 Hexane (2mLs)	DT947
Sod. Thiosulfate	1016C241

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	GA
Date	10/29/19
Time	10:30
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	11/14/19 4:07:39 PM

Reviewed By: GA 219 of 866 Date 11/14/19

Organic Extraction Worksheet

Method	EPA Method 8011 DBCP/EDB	Extraction Set	191028A	Extraction Method	MWE012	Units	mL
Spiked ID 1	504.1 M. SPIKE 09/19/19 EXP 01/06/20	Surrogate ID 1	504.1	Surrogate 09/04/19 EXP 01/06/20			
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:					
Spiked ID 7		Ext. Start Time:		10/28/19 16:05			
Spiked ID 8		Ext. End Time:		10/29/19 12:00			
GC Requires Extract By:							
pH1				Water Bath Temp 1 °C			
pH2				Water Bath Temp 2 °C			
pH3				Water Bath Temp 3 °C			

Spiked By: DL

Date 10/28/19 4:05:00 PM

Witnessed By: DS

Date 10/28/19 4:05:00 PM

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17 BA01833	BA01833W06			0.035	1	35.36g	2	7	10/29/19 11:10	90559
18 M STD 1		0.020	1	NA	NA	35.13g	2	7	10/28/19 16:05	

~~GA 11/14/19~~

Solvent and Lot#	
ph strip	HC863463
NaCL	19A035211
GC2 Hexane (2mLs)	DT947
Sod. Thiosulfate	1016C241

Extraction COC Transfer	
Extraction lab employee Initials	DL
GC analyst's initials	GA
Date	
Time	
Refrigerator	Hobart

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	11/14/19 4:07:39 PM

Reviewed By: GA 220 of 866 Date 11/14/19

Injection Log

Directory: G:\HERBIE\DATA\190916\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	68	0916268.D	1	8011 1 9/17/19	water	10-04-19 19:08:08
2	69	0916269.D	1	8011 2 9/17/19	water	10-04-19 19:28:36
3	70	0916270.D	1	8011 3 9/17/19	water	10-04-19 19:49:11
4	71	0916271.D	1	8011 4 9/17/19	water	10-04-19 20:09:38
5	72	0916272.D	1	8011 5 9/17/19	water	10-04-19 20:30:00
6	73	0916273.D	1	8011 6 9/17/19	water	10-04-19 20:50:31
7	74	0916274.D	1	8011 SS 9/17/19	water	10-04-19 21:10:52
8	67	1025067.D	1	8011 4 9/17/19	water	10-29-19 20:29:50
9	68	1025068.D	0.99715	191028A BLK 2/35.00G	water	10-29-19 20:49:55
10	69	1025069.D	0.99658	191028A LCS-1 2/35.00G	water	10-29-19 21:09:59
11	70	1025070.D	0.9837	191028A LCSD-1 2/35.00G	water	10-29-19 21:30:06
16	81	1025081.D	1	8011 4 9/17/19	water	10-30-19 1:10:19
17	82	1025082.D	0.98453	BA01830W01 2/35.00G	water	10-30-19 1:30:13
18	83	1025083.D	0.99829	BA01831W01 2/35.00G	water	10-30-19 1:50:11
19	84	1025084.D	0.996867	BA01832W01 2/35.00G	water	10-30-19 2:10:08
20	85	1025085.D	0.98982	BA01833W01 2/35.00G	water	10-30-19 2:30:07
21	81	1025087.D	1	8011 4 9/17/19	water	10-30-19 3:10:06

ORGANICS
Calibration Data

TPH Extractables
DOC0911

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 09/11/19
Instrument: Apollo

Initials: BT/CL

911003.D 911004.D 911005.D 911006.D 911007.D 911008.D

	Compound	1	2	3	4	5	6					Avg	%RSD	Type	r ²	Q
1	HATM Diesel (C10-C24)	2090856	1588723	1790144	1804407	1916066	1884405					1845767	9.0	HATM		
2	HBTML Motor Oil (C24-C40)	2201969	1482847	1340977	1308351	1375248	1357618					1511168	23	HBTM	1.000	
3	SA Ortho-Terphenyl(S)	2423821	1778443	1741236	1675620	1723534	1686854					1838251	16	SA		
4	SA Octacosane(S)	2007294	1899908	1686113	1622552	1817363	1870543					1817296	7.8	SA		
5																
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7																
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1.579095

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911003.D Vial: 3
 Acq On : 9-11-19 13:25:10 Operator: BT
 Sample : Diesel/Motor Oil - 1 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

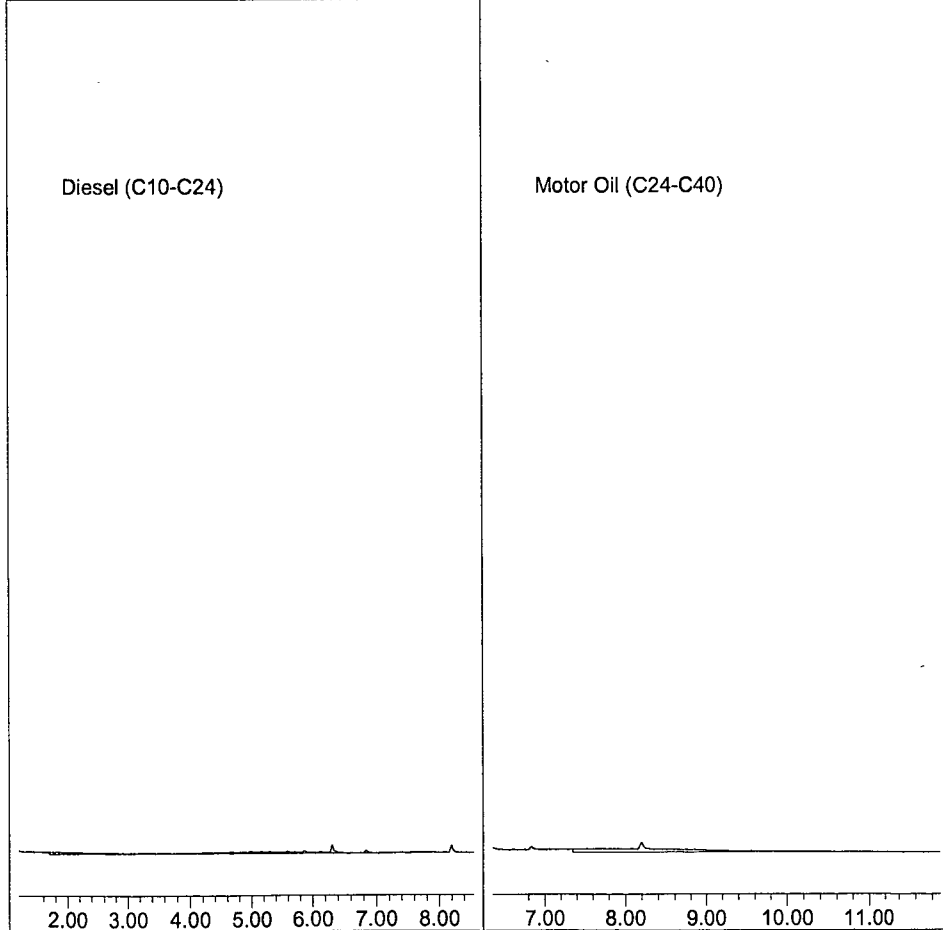
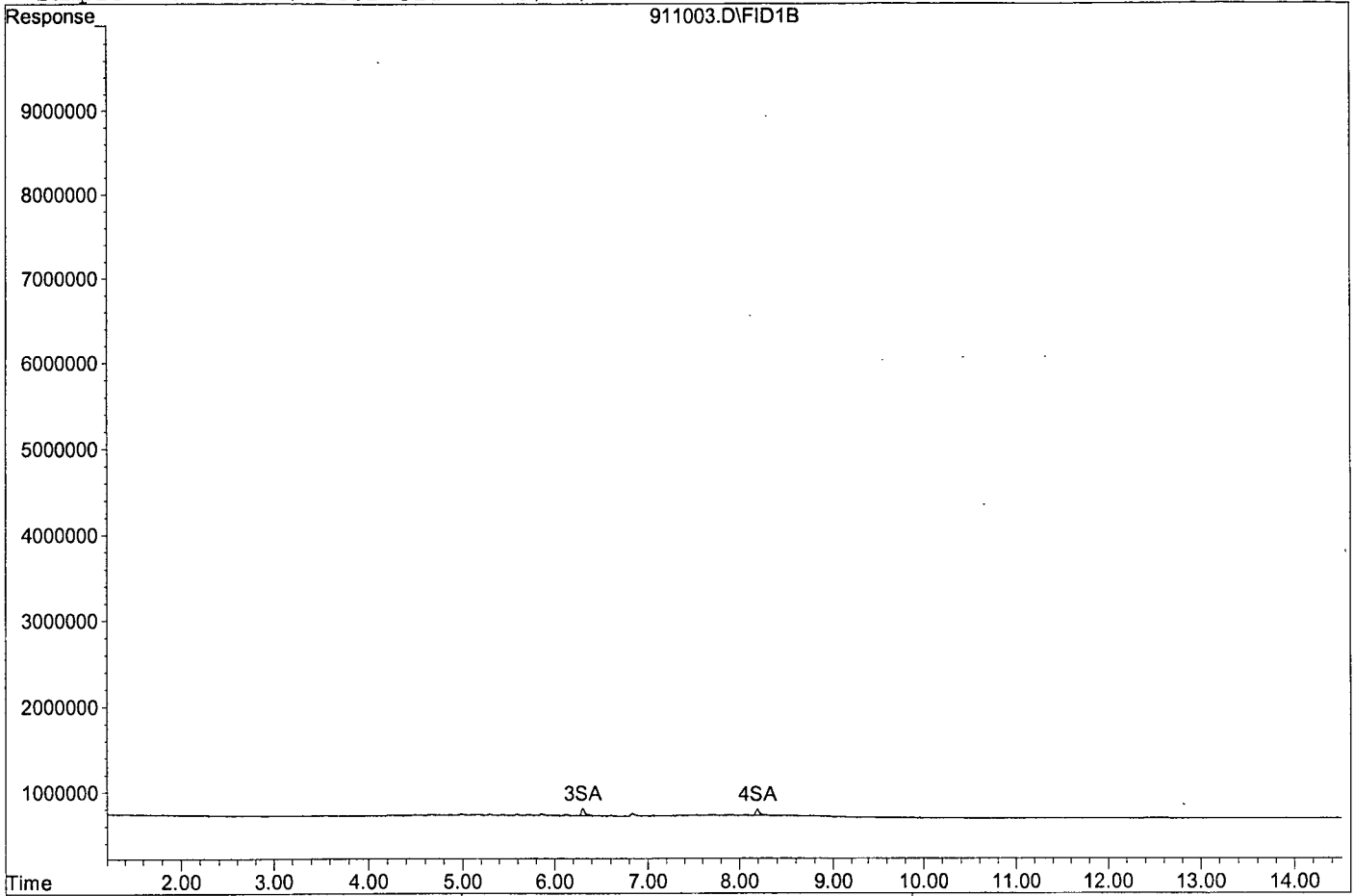
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.31	2423821	0.659 ppb
Surrogate Spike 30.000		Recovery =	2.20%
4) SA Octacosane(S)	8.20	2007294	0.552 ppb
Surrogate Spike 30.000		Recovery =	1.84%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	41817119	11.328 ppb
2) HBTM Motor Oil (C24-C40)	9.13	44039382	17.660 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911003.D

Sample : Diesel/Motor Oil - 1 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911004.D Vial: 4
 Acq On : 9-11-19 13:45:18 Operator: BT
 Sample : Diesel/Motor Oil - 2 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

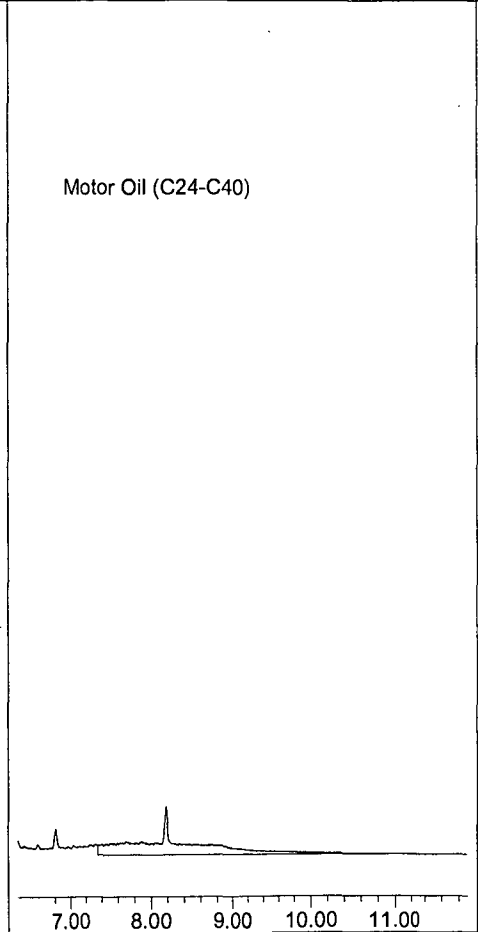
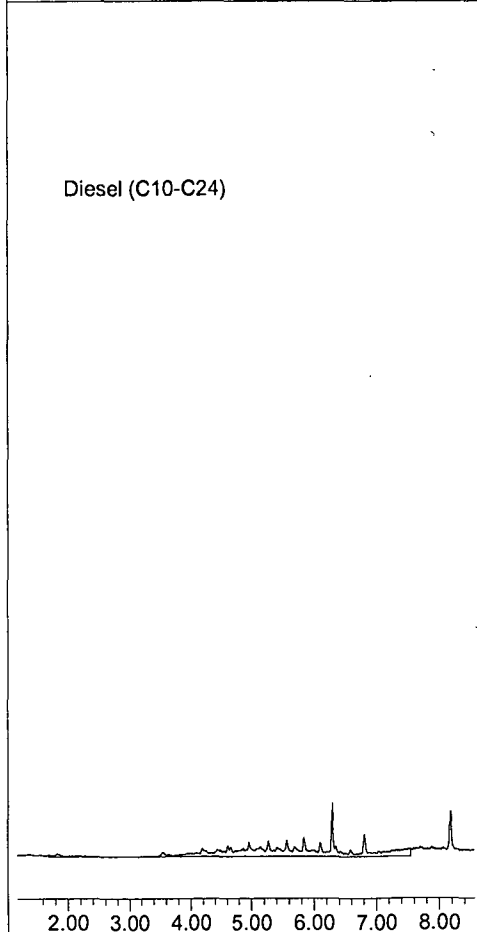
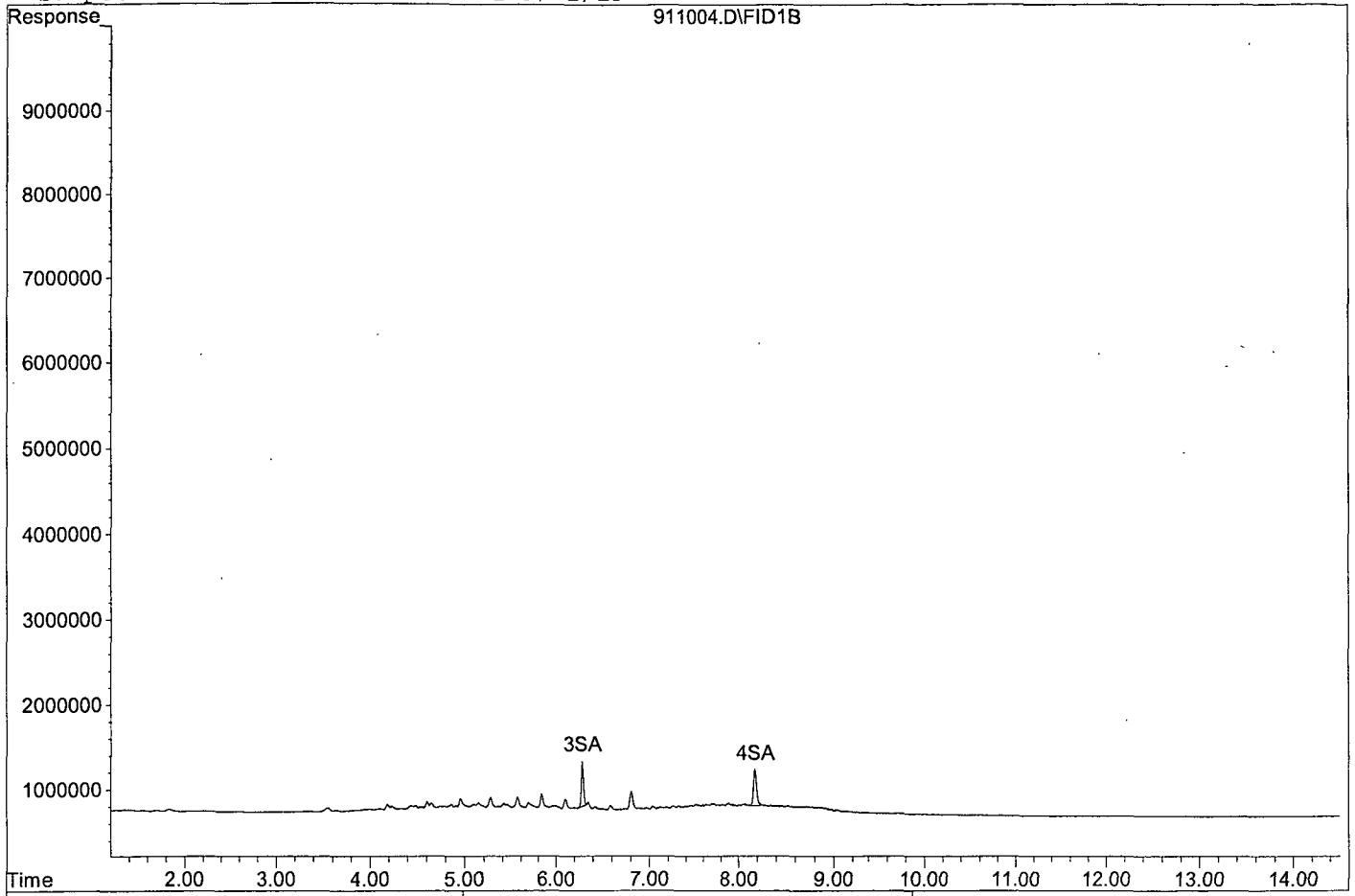
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	8892214	2.419 ppb
Surrogate Spike 30.000		Recovery =	8.06%
4) SA Octacosane(S)	8.18	9499540	2.614 ppb
Surrogate Spike 30.000		Recovery =	8.71%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	158872320	43.037 ppb
2) HBTM Motor Oil (C24-C40)	9.13	148284733	56.056 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911004.D
Sample : Diesel/Motor Oil - 2 9/11/19



Data File : G:\APOLLO\DATA\190911\911005.D Vial: 5
 Acq On : 9-11-19 14:04:58 Operator: BT
 Sample : Diesel/Motor Oil - 3 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

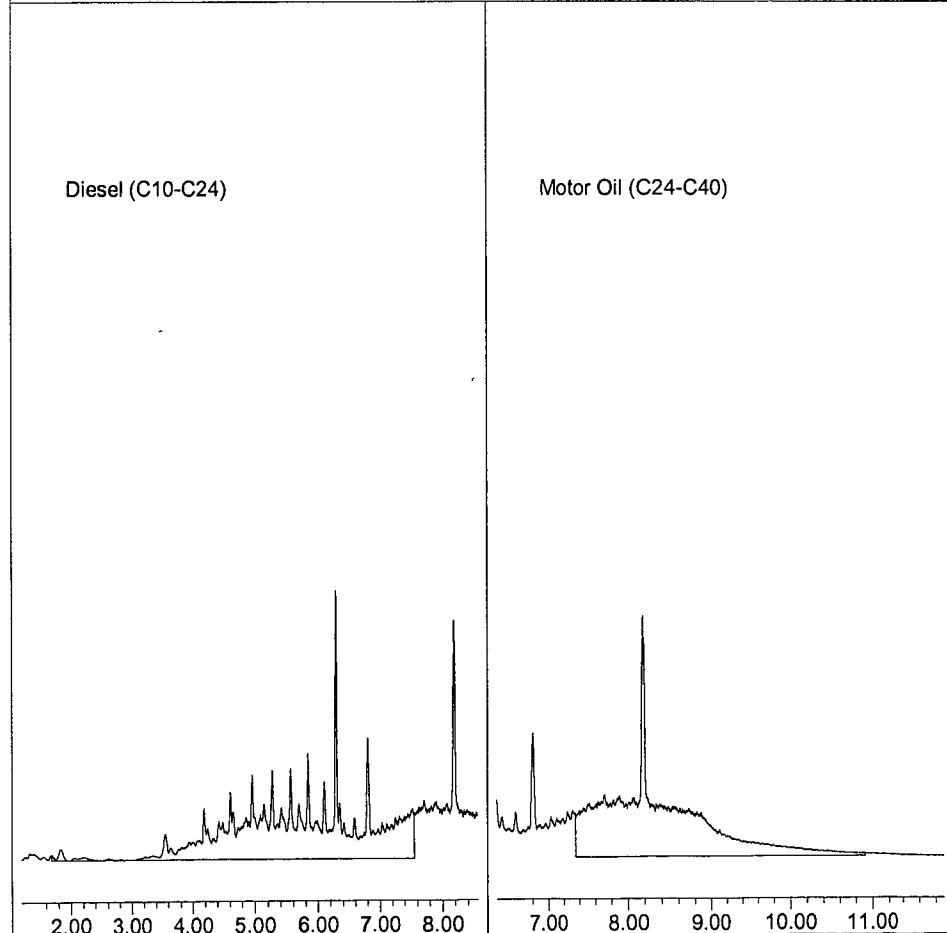
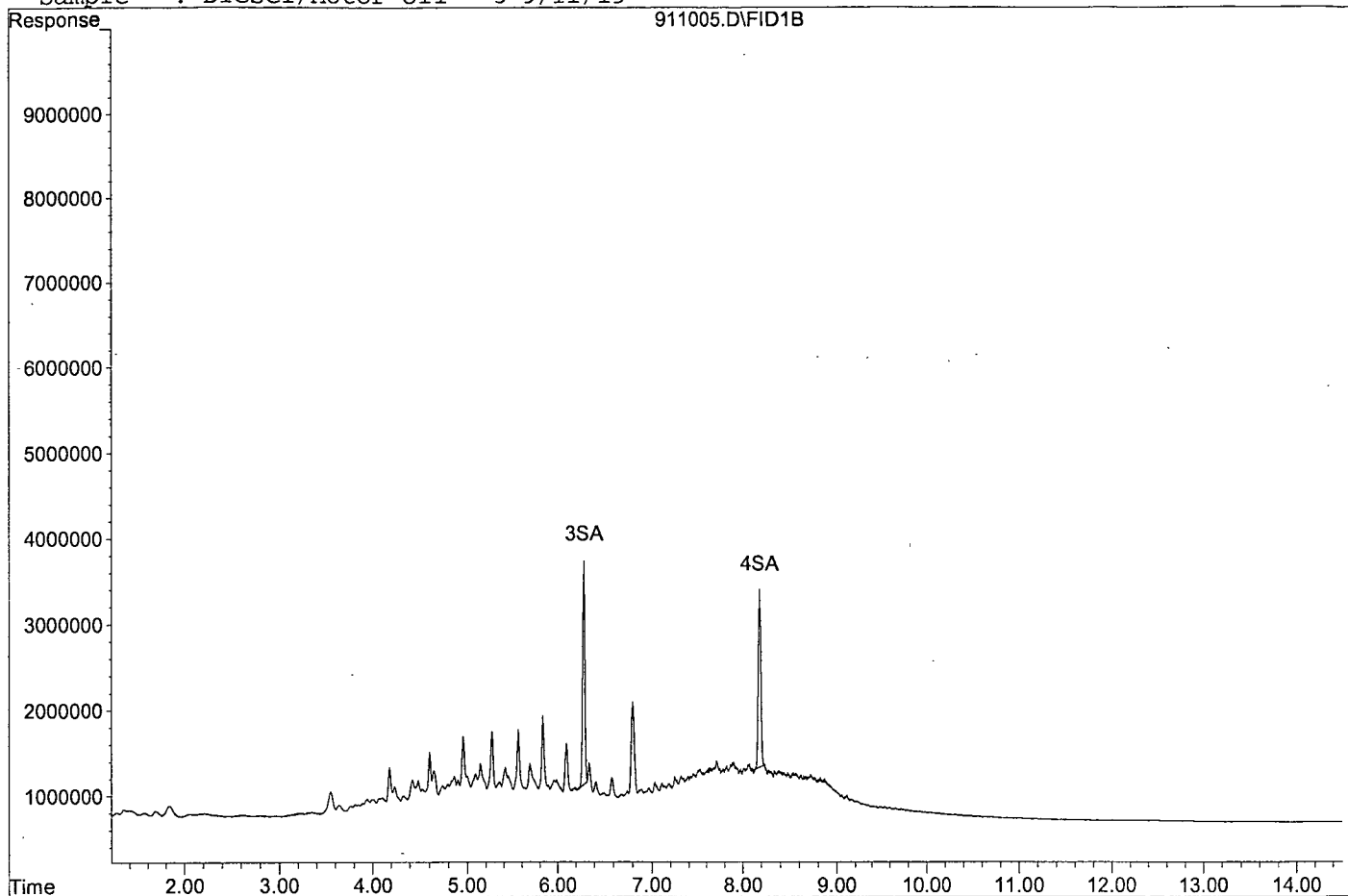
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	43530898	11.840 ppb
Surrogate Spike 30.000		Recovery =	39.47%
4) SA Octacosane(S)	8.18	42152834	11.598 ppb
Surrogate Spike 30.000		Recovery =	38.66%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	895072230	242.466 ppb
2) HBTM Motor Oil (C24-C40)	9.13	670488328	248.396 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911005.D

Sample : Diesel/Motor Oil - 3 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911006.D Vial: 6
 Acq On : 9-11-19 14:25:14 Operator: BT
 Sample : Diesel/Motor Oil - 4 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

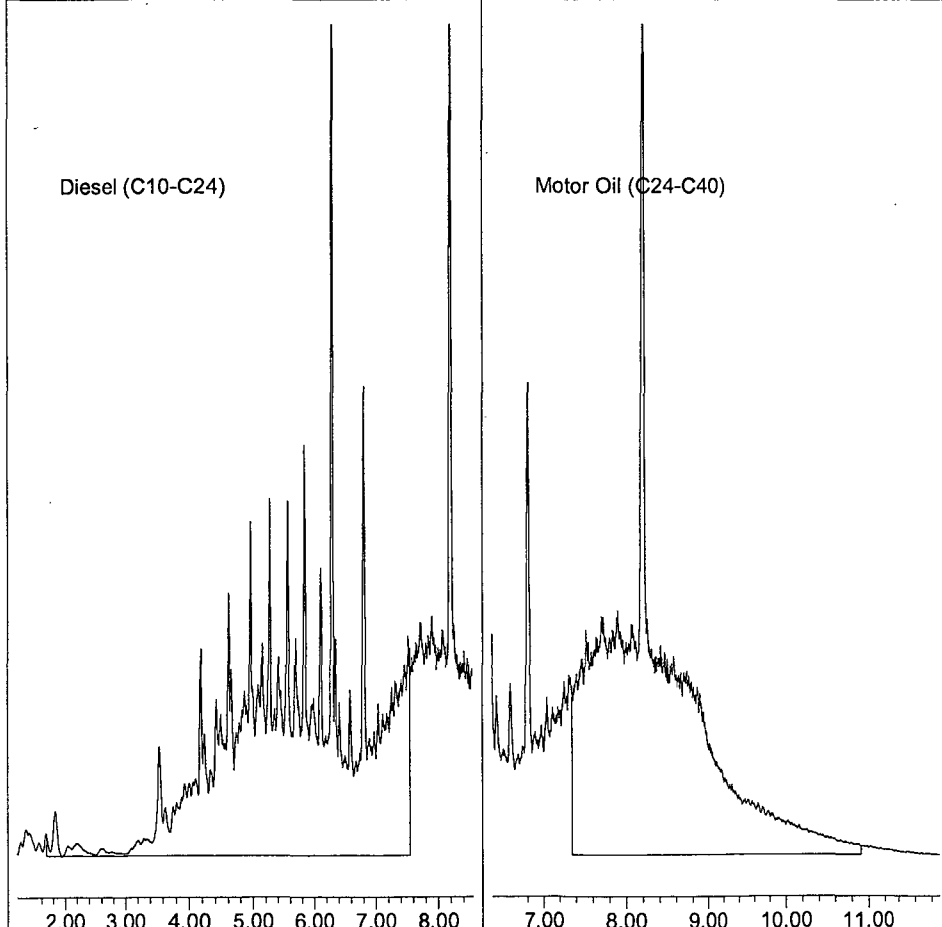
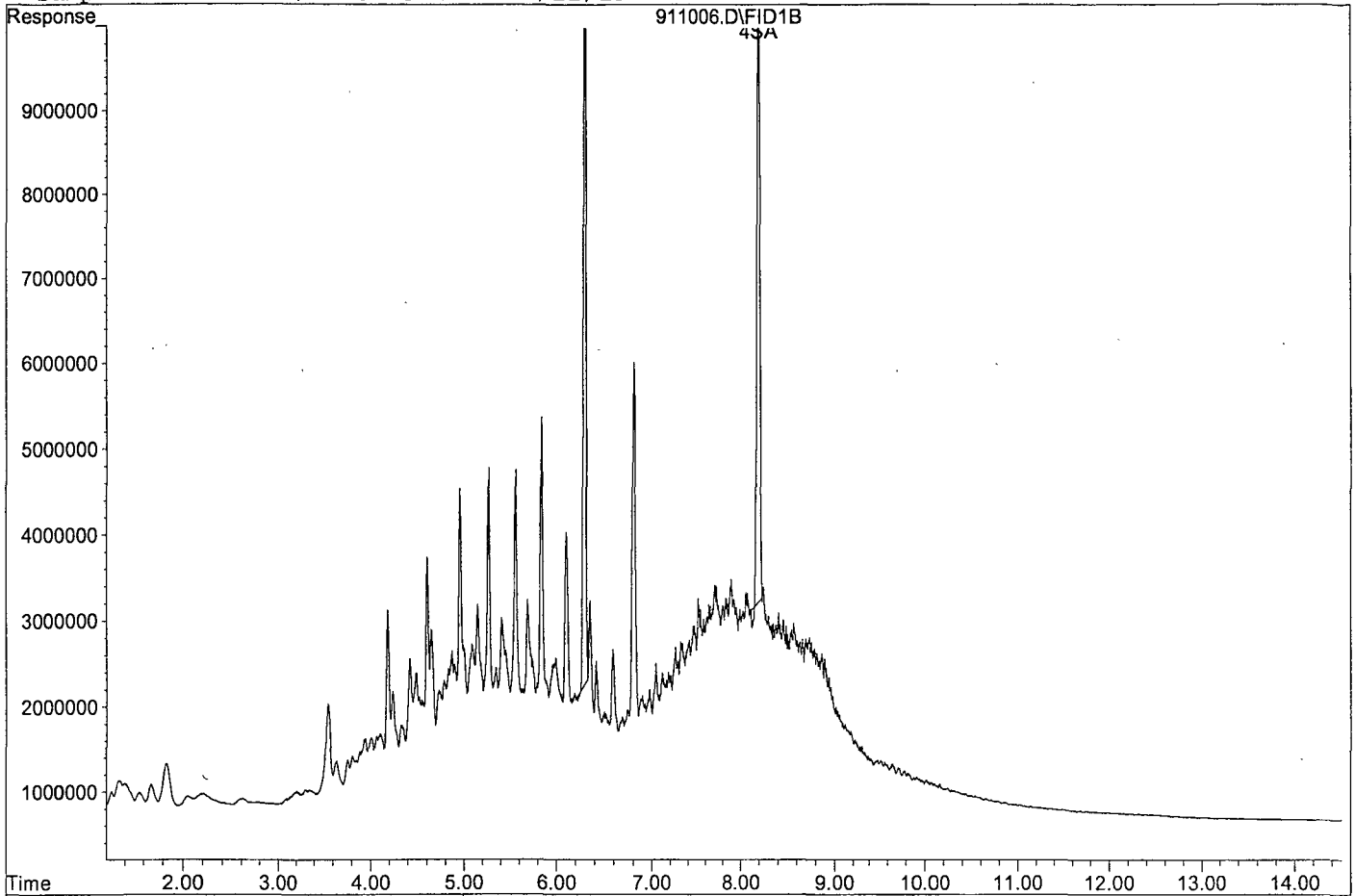
Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.29	167561976	45.576 ppb
Surrogate Spike 30.000		Recovery =	151.92%
4) SA Octacosane(S)	8.19	162255227	44.642 ppb
Surrogate Spike 30.000		Recovery =	148.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	3608813483	977.592 ppb
2) HBTM Motor Oil (C24-C40)	9.13	2616701147	965.232 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911006.D
Sample : Diesel/Motor Oil - 4 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911007.D Vial: 7
 Acq On : 9-11-19 14:45:29 Operator: BT
 Sample : Diesel/Motor Oil - 5 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

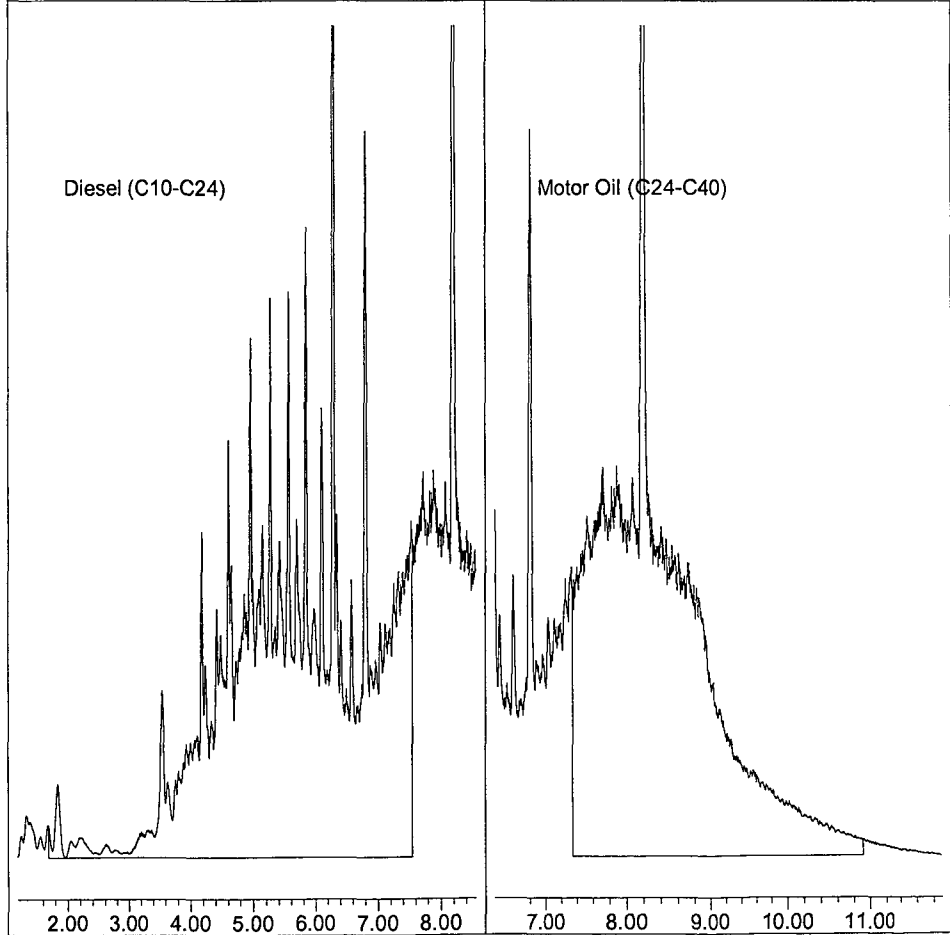
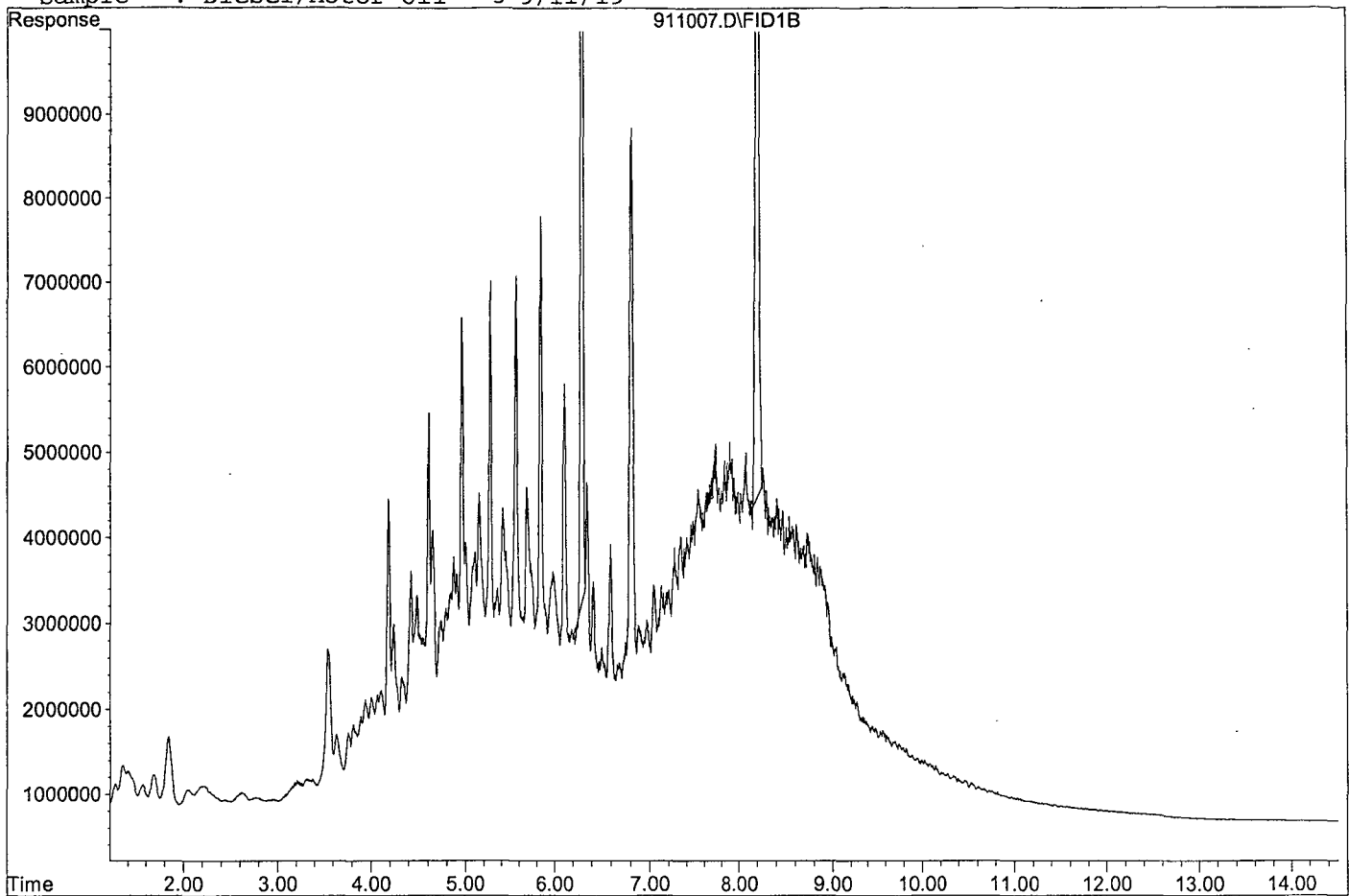
Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	258530070	70.320 ppb
Surrogate Spike 30.000		Recovery =	234.40%
4) SA Octacosane(S)	8.20	272604437	75.003 ppb
Surrogate Spike 30.000		Recovery =	250.01%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	5748198779	1557.130 ppb
2) HBTM Motor Oil (C24-C40)	9.13	4125744424	1521.048 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911007.D
Sample : Diesel/Motor Oil - 5 9/11/19



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\190911\911008.D Vial: 8
 Acq On : 9-11-19 15:05:37 Operator: BT
 Sample : Diesel/Motor Oil - 6 9/11/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 12:59 2019 Quant Results File: DOC0911.RES

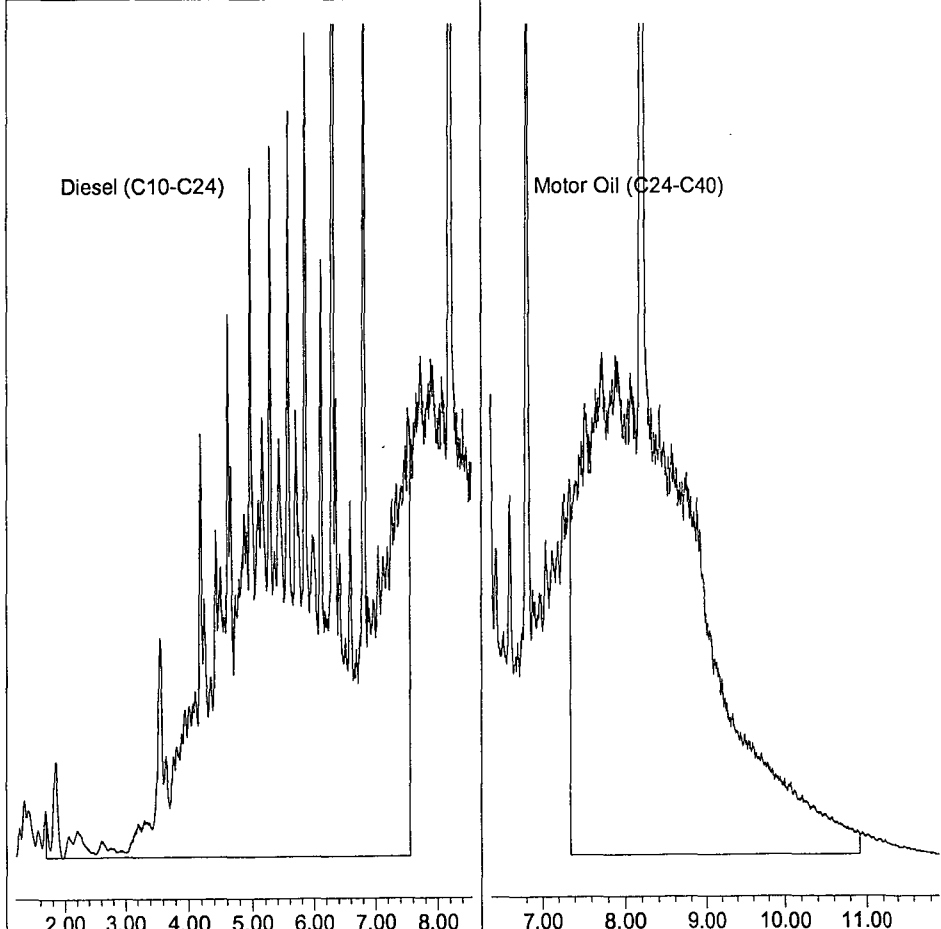
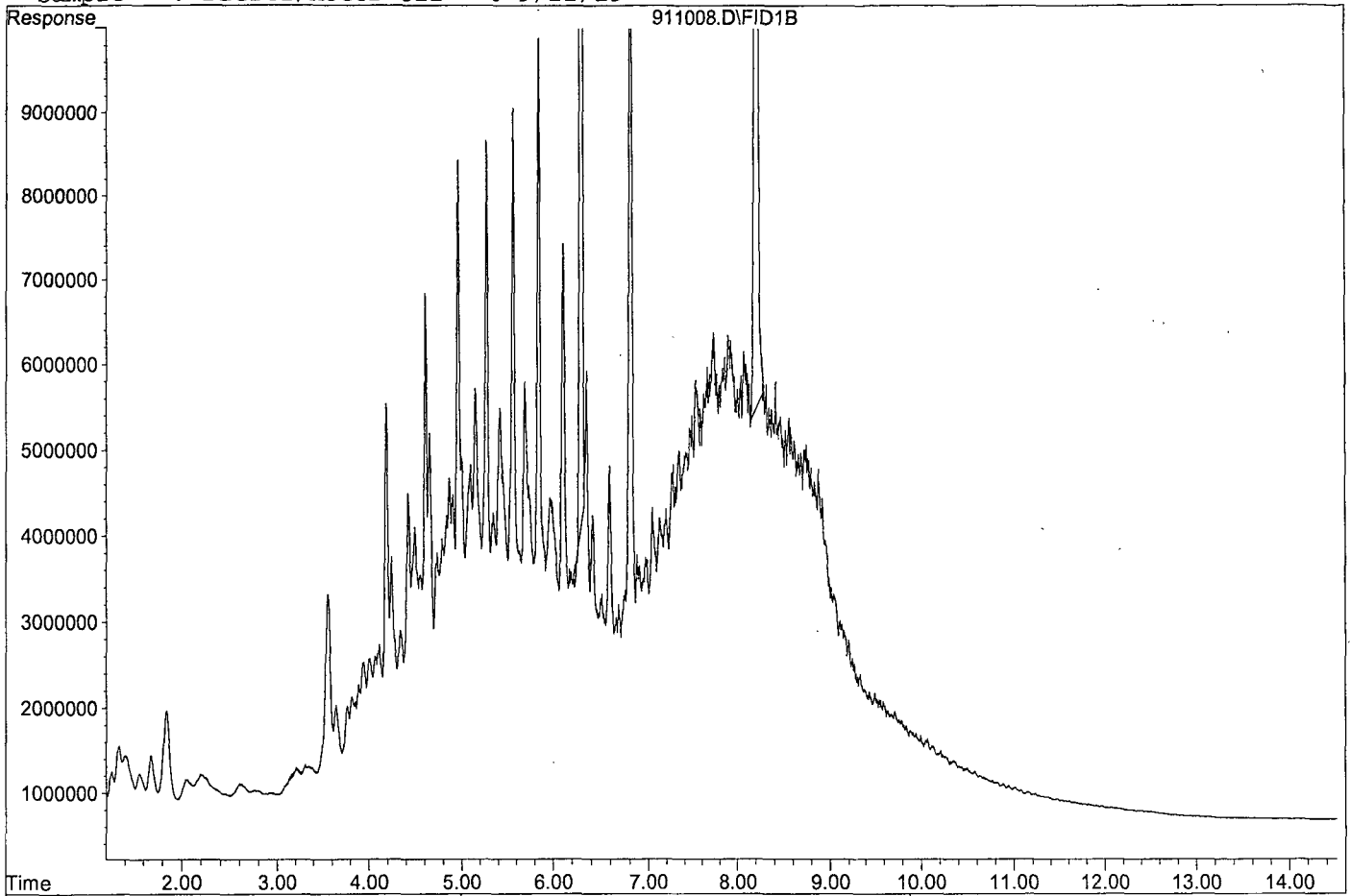
Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

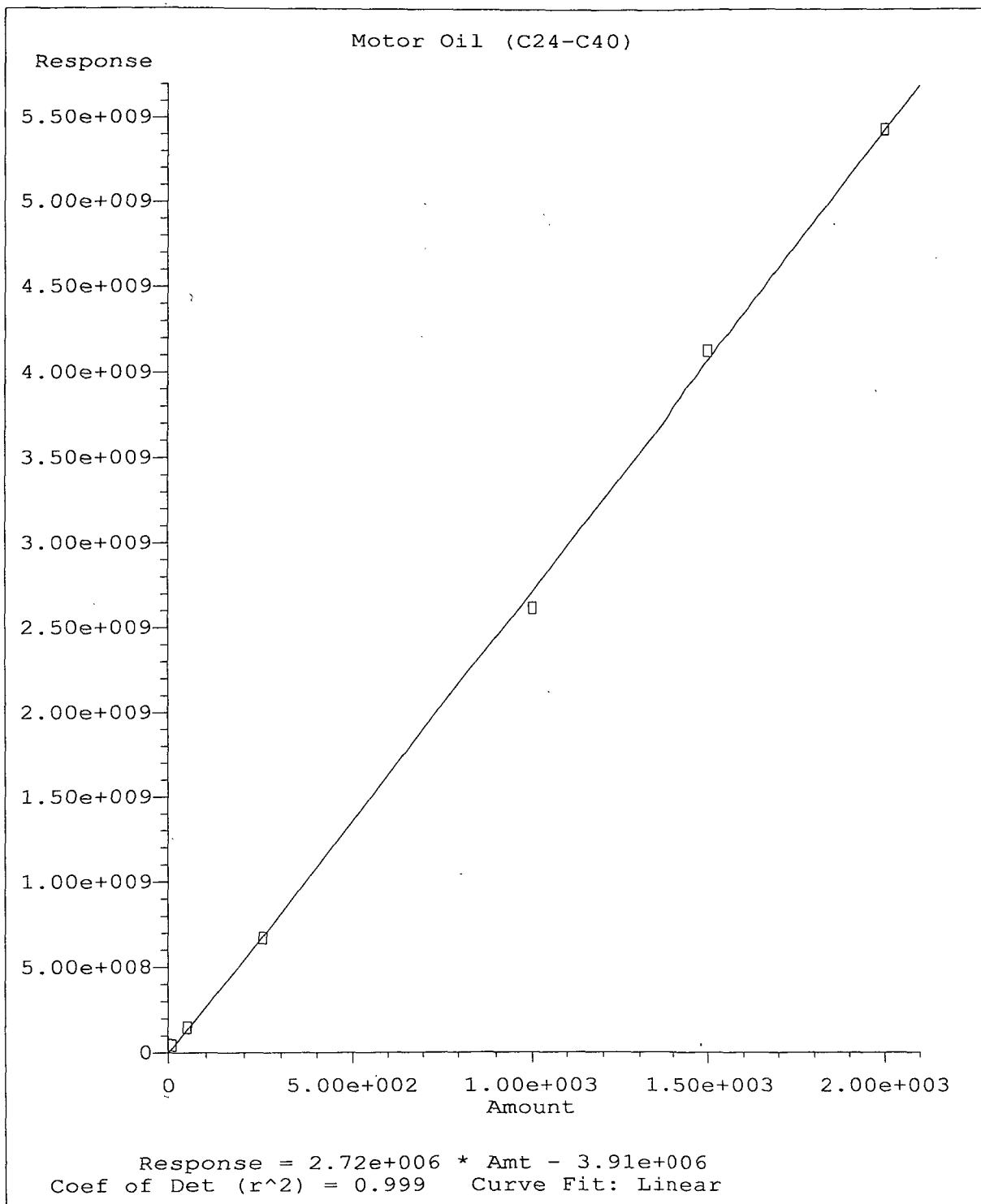
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.30	337370734	91.764 ppb
Surrogate Spike 30.000		Recovery =	305.88%
4) SA Octacosane(S)	8.21	374108579	102.930 ppb
Surrogate Spike 30.000		Recovery =	343.10%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	7537618628	2041.866 ppb
2) HBTM Motor Oil (C24-C40)	9.13	5430471626	2001.609 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911008.D
Sample : Diesel/Motor Oil - 6 9/11/19





Method Name: G:\APOLLO\DATA\190911\DOC0911.M
 Calibration Table Last Updated: Mon Sep 16 14:12:10 2019

TPH Extractables
DOC0911

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 09/11/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 09/11/19

Data File: 911009.D

	Compound	MEAN	CCRF	%D	%Drift	
1	HATM Diesel (C10-C24)	1845770	1998360	8.3	HATM	
2	HBTM Motor Oil (C24-C40)	1511170	1551320	2.7	HBTML	15
3						
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31						
32						
33						
34						
35						
36						
37						
38						
39						
40	Average			5.5		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\190911\911009.D Vial: 9
 Acq On : 9-11-19 15:25:51 Operator: BT
 Sample : Diesel/Motor Oil Second Source 1/15/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 12 13:03 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Thu Sep 12 12:59:02 2019
 Response via : Multiple Level Calibration

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

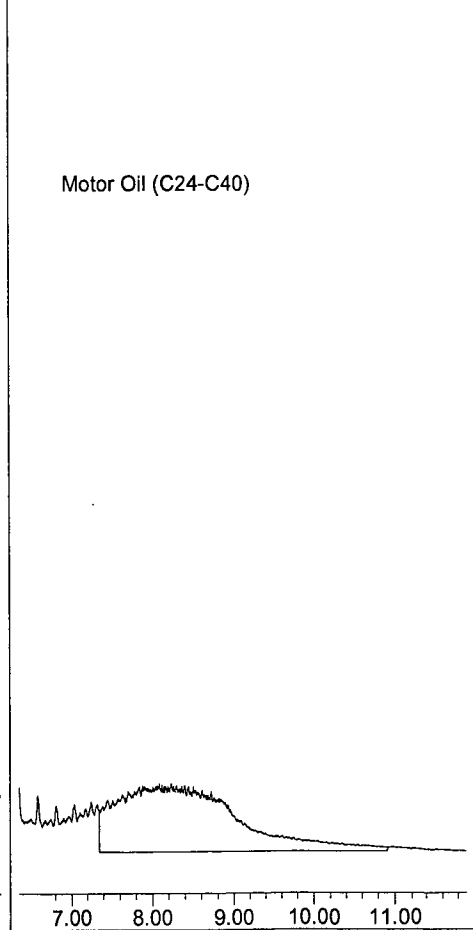
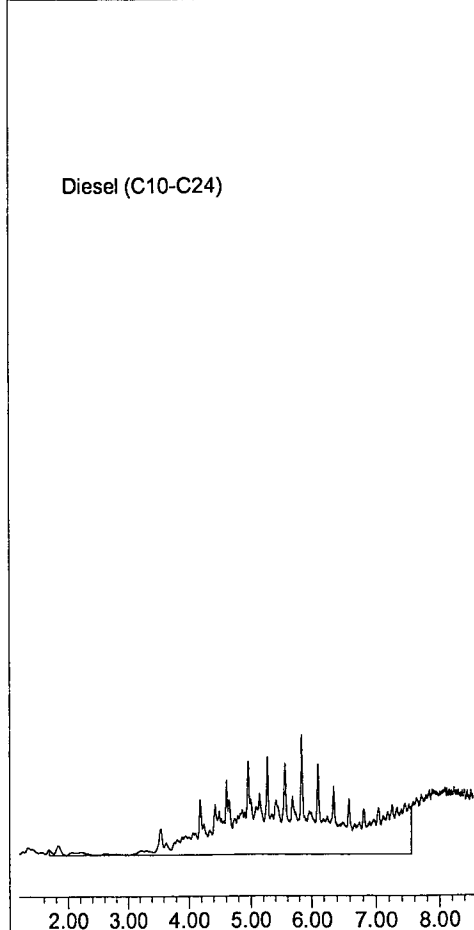
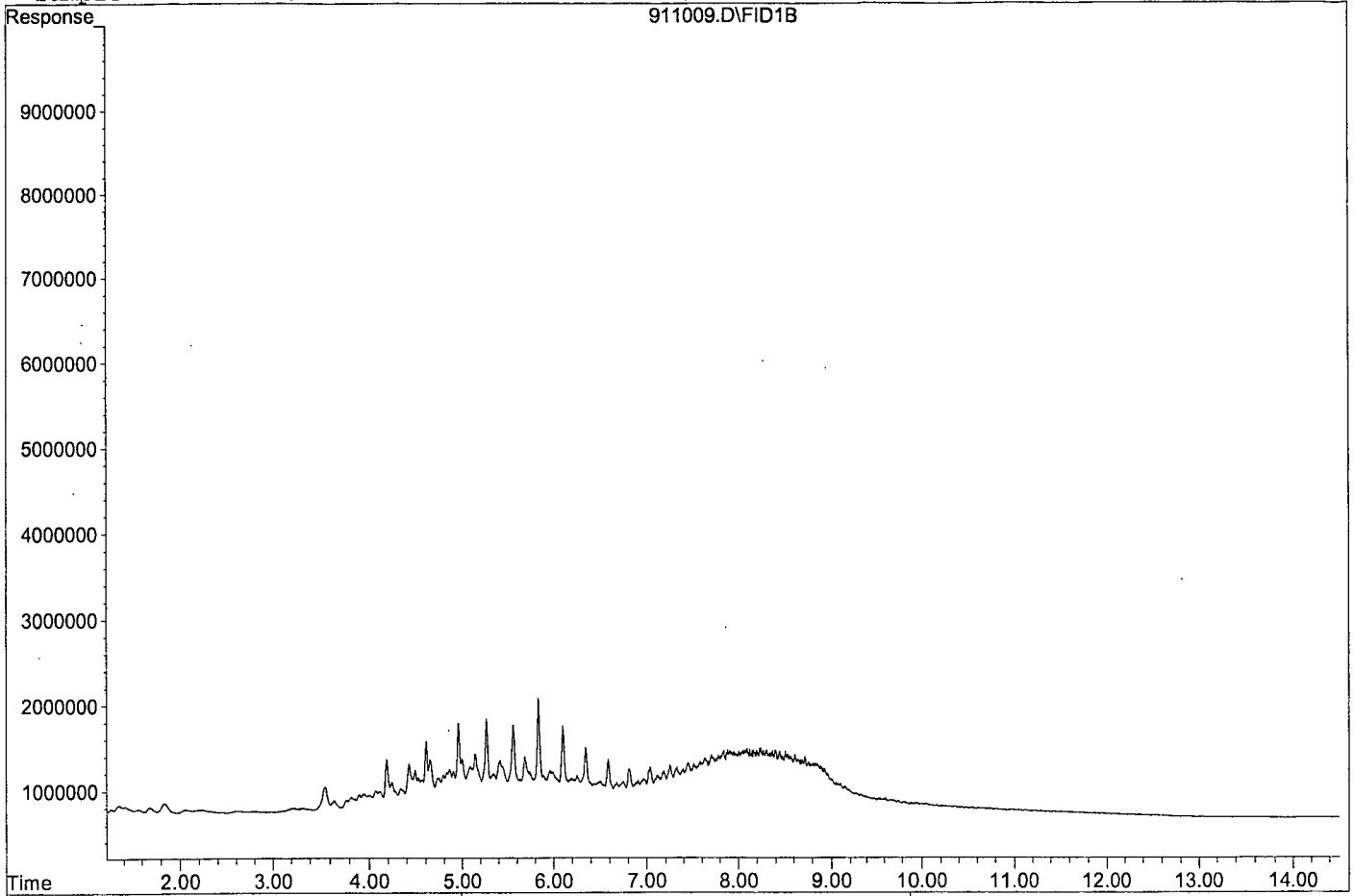
Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	0.00	0	N.D.	ppb d
Surrogate Spike 30.000		Recovery =	0.00%	
4) SA Octacosane(S)	0.00	0	N.D.	ppb d
Surrogate Spike 30.000		Recovery =	0.00%	
Target Compounds				
1) HATM Diesel (C10-C24)	4.62	999178897	270.668	ppb
2) HBTM Motor Oil (C24-C40)	9.13	775659942	287.133	ppb
Target Compounds				

Quantitation Report

Data File: G:\APOLLO\DATA\190911\911009.D

Sample : Diesel/Motor Oil Second Source 1/15/19



TPH Extractables
DOC0911

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 11/07/19
Instrument: Apollo
Initial Cal. Date: 09/11/19
Data File: 1107002.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	1845770	1989050	7.8	HATM
2	HBTM Motor Oil (C24-C40)	1511170	1457340	3.6	HBTML 7.9
3	SA Ortho-Terphenyl(S)	1838250	1777170	3.3	SA
4	SA Octacosane(S)	1817300	1910780	5.1	SA
5					
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36					
37					
38					
39					
40	Average			5.0	

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\191107\1107002.D Vial: 2
 Acq On : 11-7-19 18:16:59 Operator: BT
 Sample : Diesel Motor Oil CCV 10/21/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

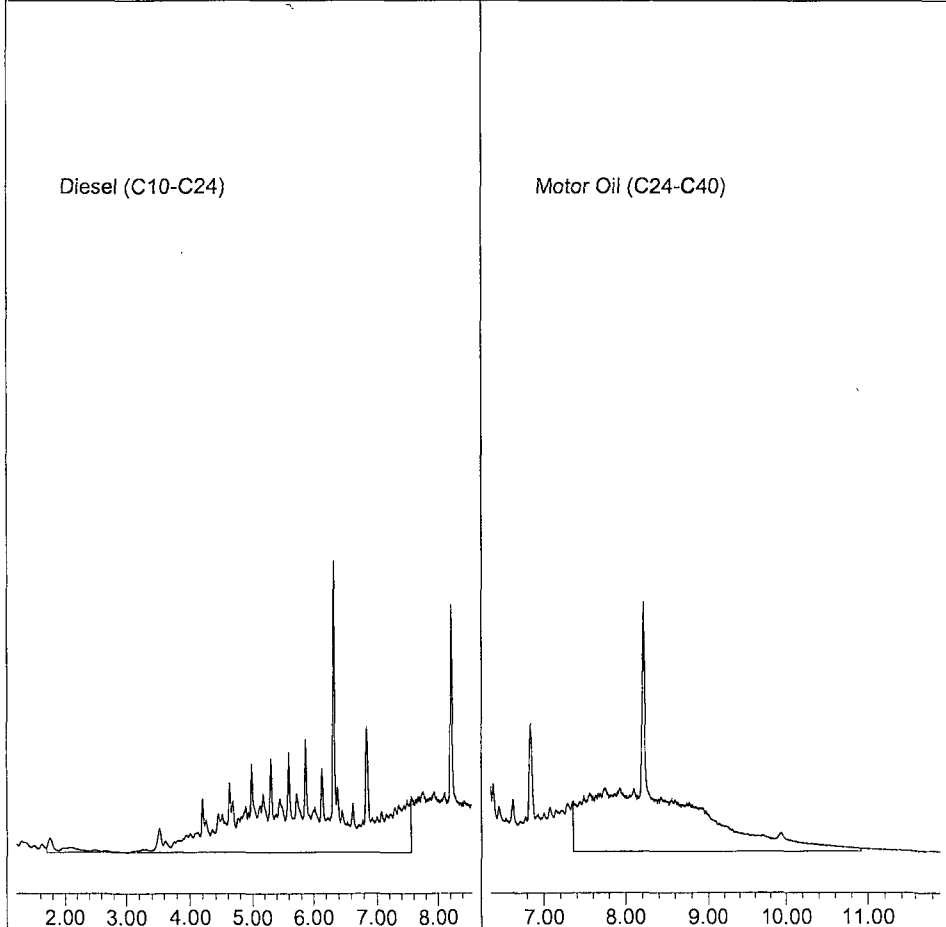
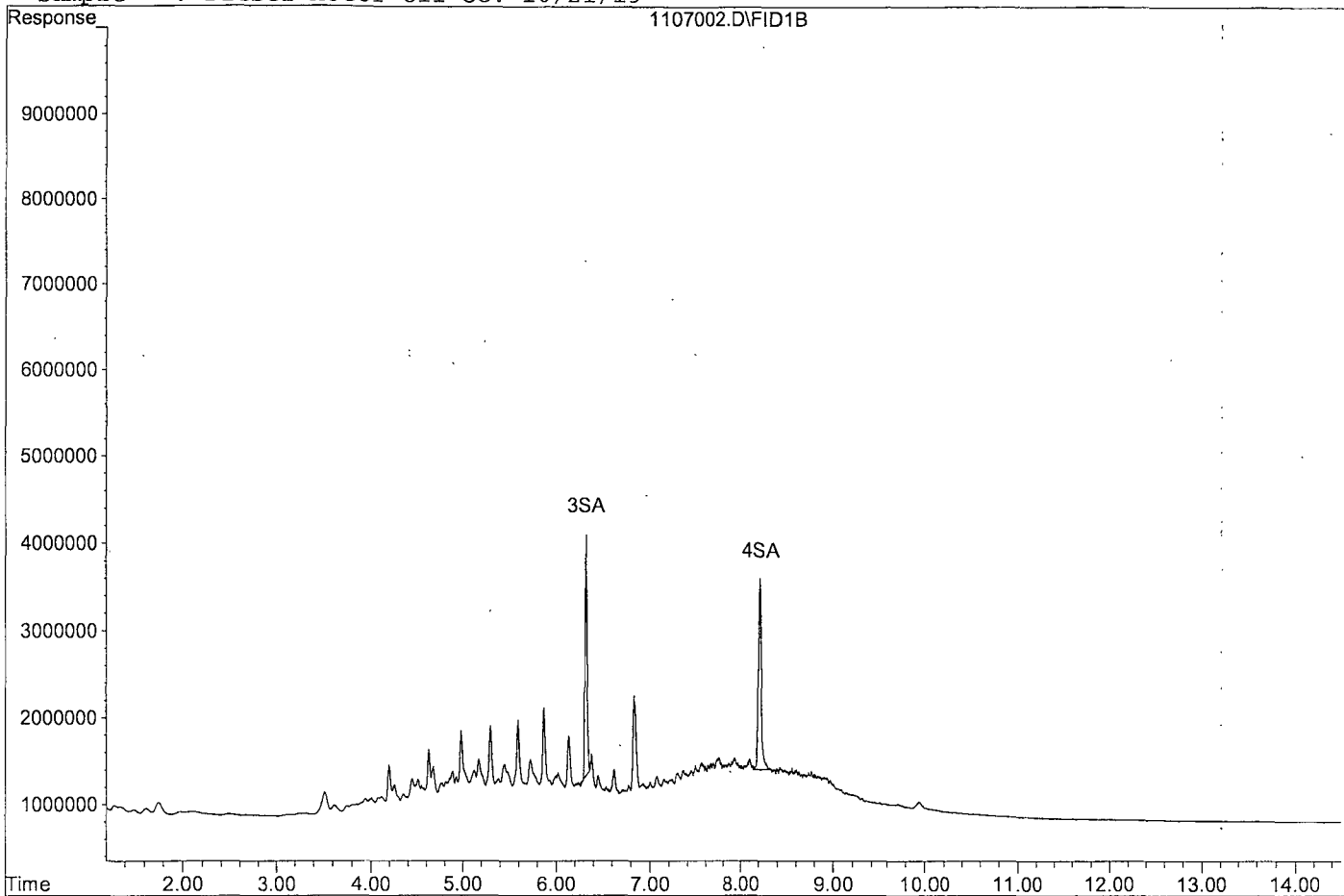
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	44429245	12.085 ppb
Surrogate Spike 30.000		Recovery =	40.28%
4) SA Octacosane(S)	8.22	47769535	13.143 ppb
Surrogate Spike 30.000		Recovery =	43.81%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	994523583	269.407 ppb
2) HBTM Motor Oil (C24-C40)	9.13	728669156	269.825 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107002.D

Sample : Diesel Motor Oil CCV 10/21/19



TPH Extractables
DOC0911

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 11/08/19

Matrix: Water

Instrument: Apollo

Initial Cal. Date: 09/11/19

Data File: 1107019.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C24)	1845770	2083260	13	HATM
2	HBTM Motor Oil (C24-C40)	1511170	1538580	1.8	HBTML 14
3	SA Ortho-Terphenyl(S)	1838250	1892640	3.0	SA
4	SA Octacosane(S)	1817300	1825430	0.45	SA
5					
6					
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39					
40	Average			4.6	

Data File : G:\APOLLO\DATA\191107\1107019.D Vial: 19
 Acq On : 11-8-19 0:00:37 Operator: BT
 Sample : Diesel Motor Oil CCV 10/21/19 Inst : Apollo
 Misc : water Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 12 15:26 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	47316065	12.870 ppb
Surrogate Spike 30.000		Recovery =	42.90%
4) SA Octacosane(S)	8.21	45635759	12.556 ppb
Surrogate Spike 30.000		Recovery =	41.85%
Target Compounds			
1) HATM Diesel (C10-C24)	4.62	1041628409	282.167 ppb
2) HBTM Motor Oil (C24-C40)	9.13	769291477	284.787 ppb

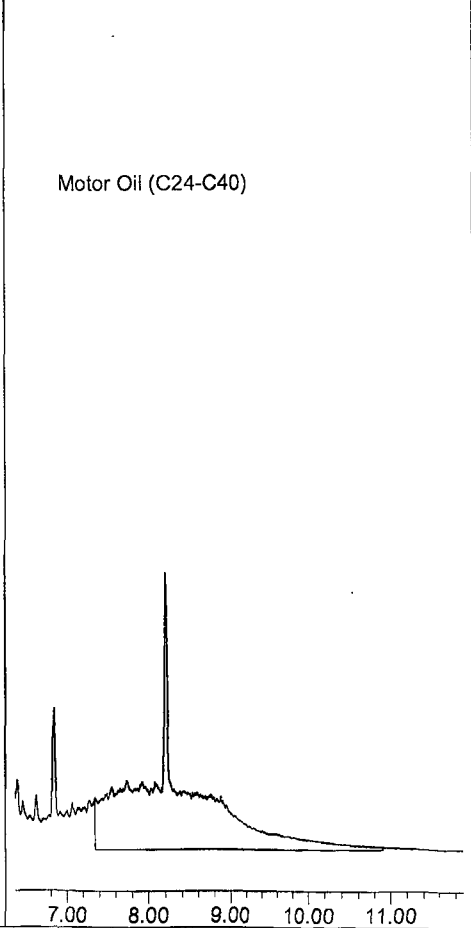
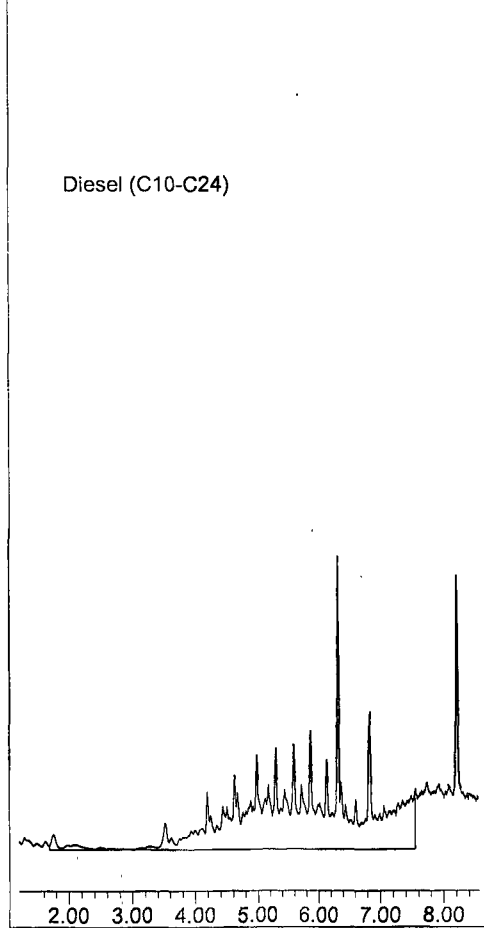
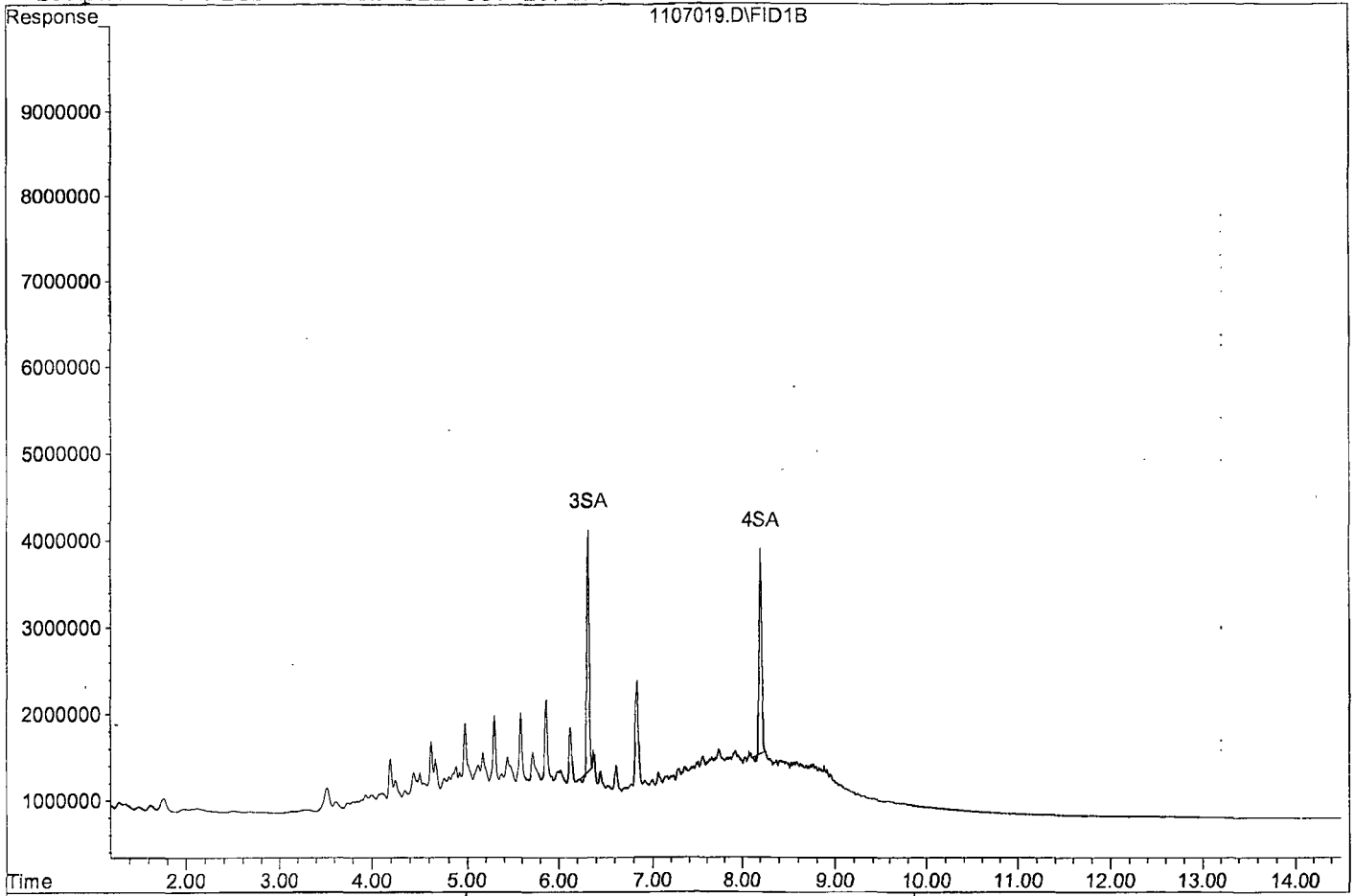
Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107019.D

Sample : Diesel Motor Oil CCV 10/21/19

1107019.D\FID1B



ORGANICS
Raw Data

Data File : G:\APOLLO\DATA\191107\1107012.D Vial: 12
 Acq On : 11-7-19 21:41:29 Operator: BT
 Sample : BA01829W12 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

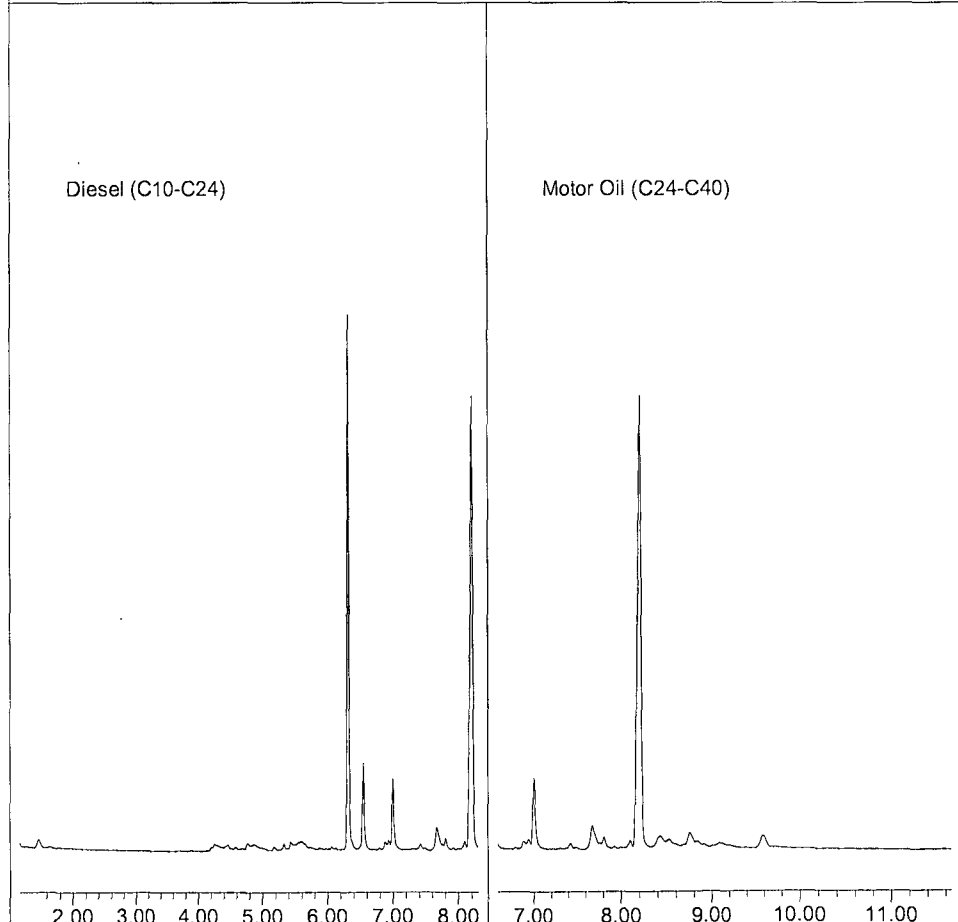
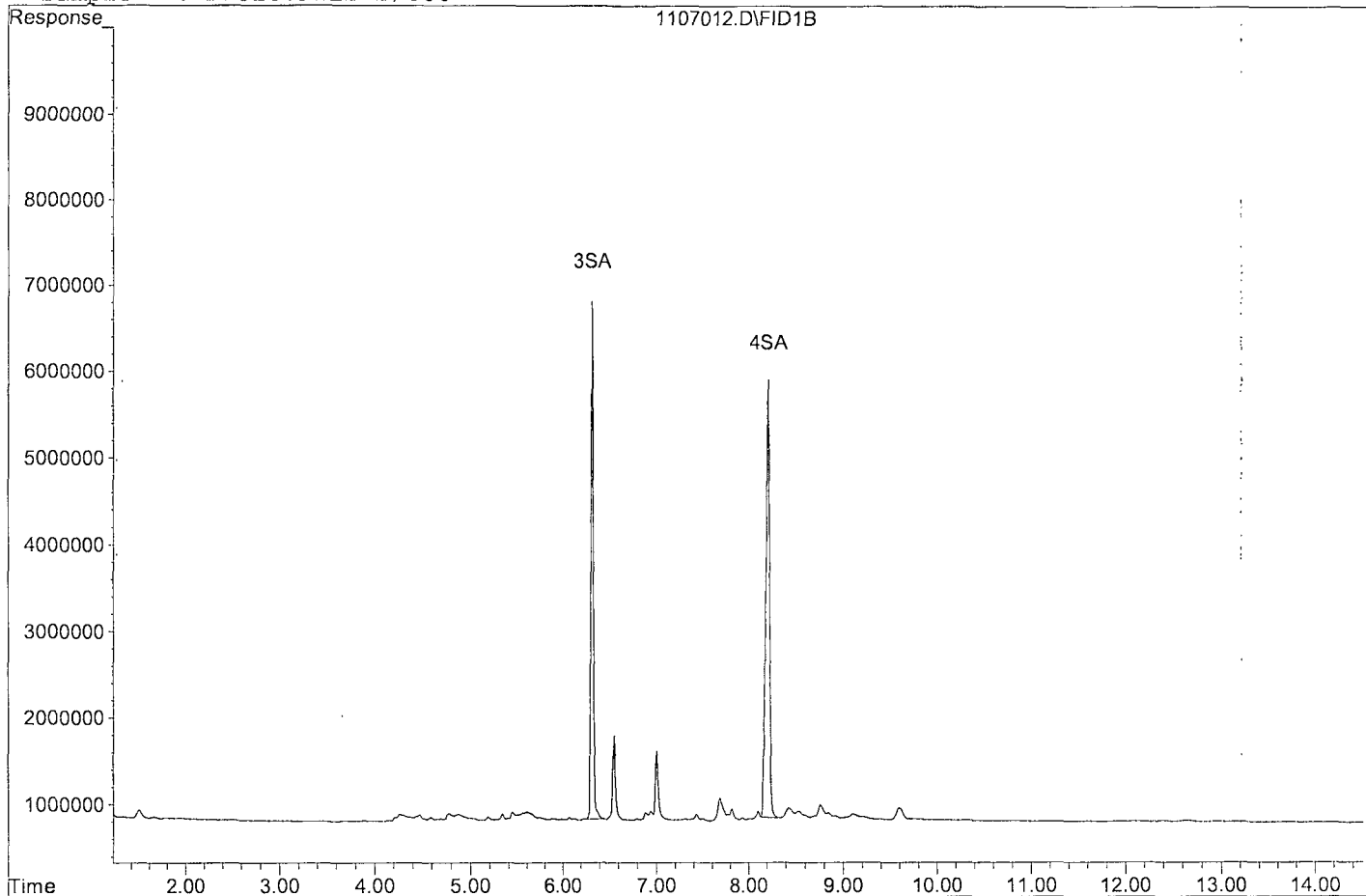
Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	6.32	106480425	72.406	ppb
Surrogate Spike 75.000		Recovery =	96.54%	
4) SA Octacosane(S)	8.21	139420711	95.898	ppb
Surrogate Spike 75.000		Recovery =	127.86%	
Target Compounds				
Target Compounds				
1) HATM Diesel (C10-C24)	0.00	0	N.D.	ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D.	ppb

Data File: G:\APOLLO\DATA\191107\1107012.D

Sample : BA01829W12 2/800



Data File : G:\APOLLO\DATA\191107\1107013.D Vial: 13
 Acq On : 11-7-19 22:01:38 Operator: BT
 Sample : BA01831W15 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:50 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

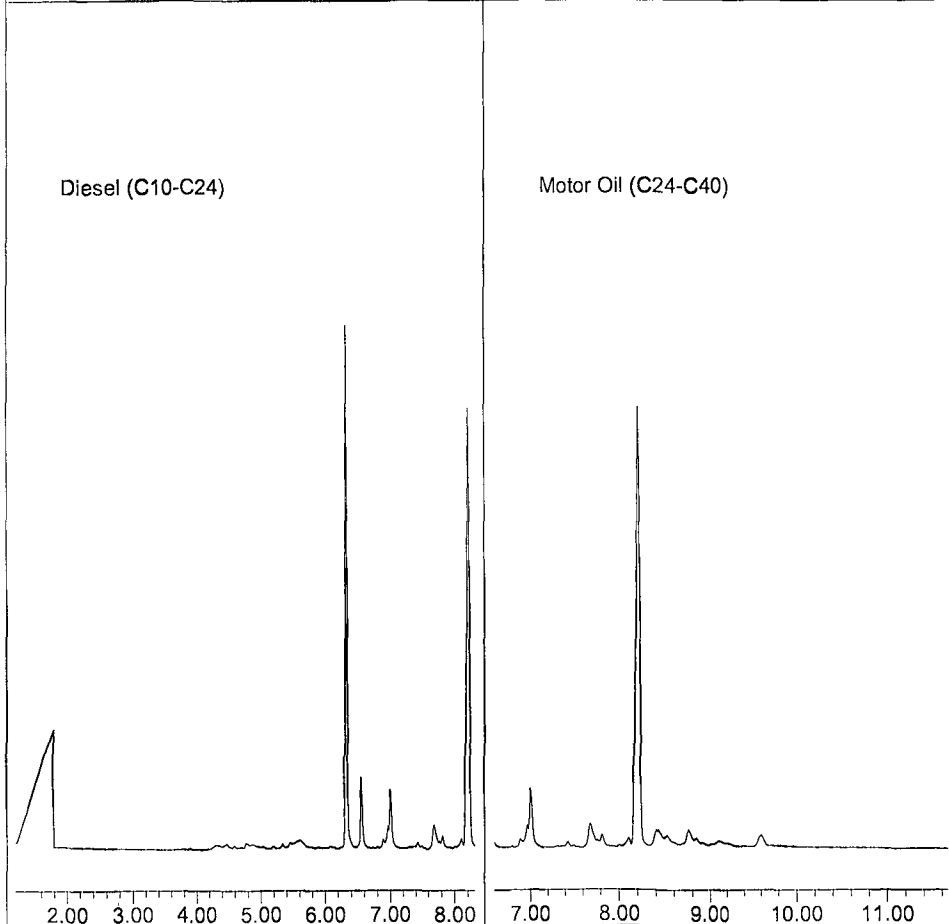
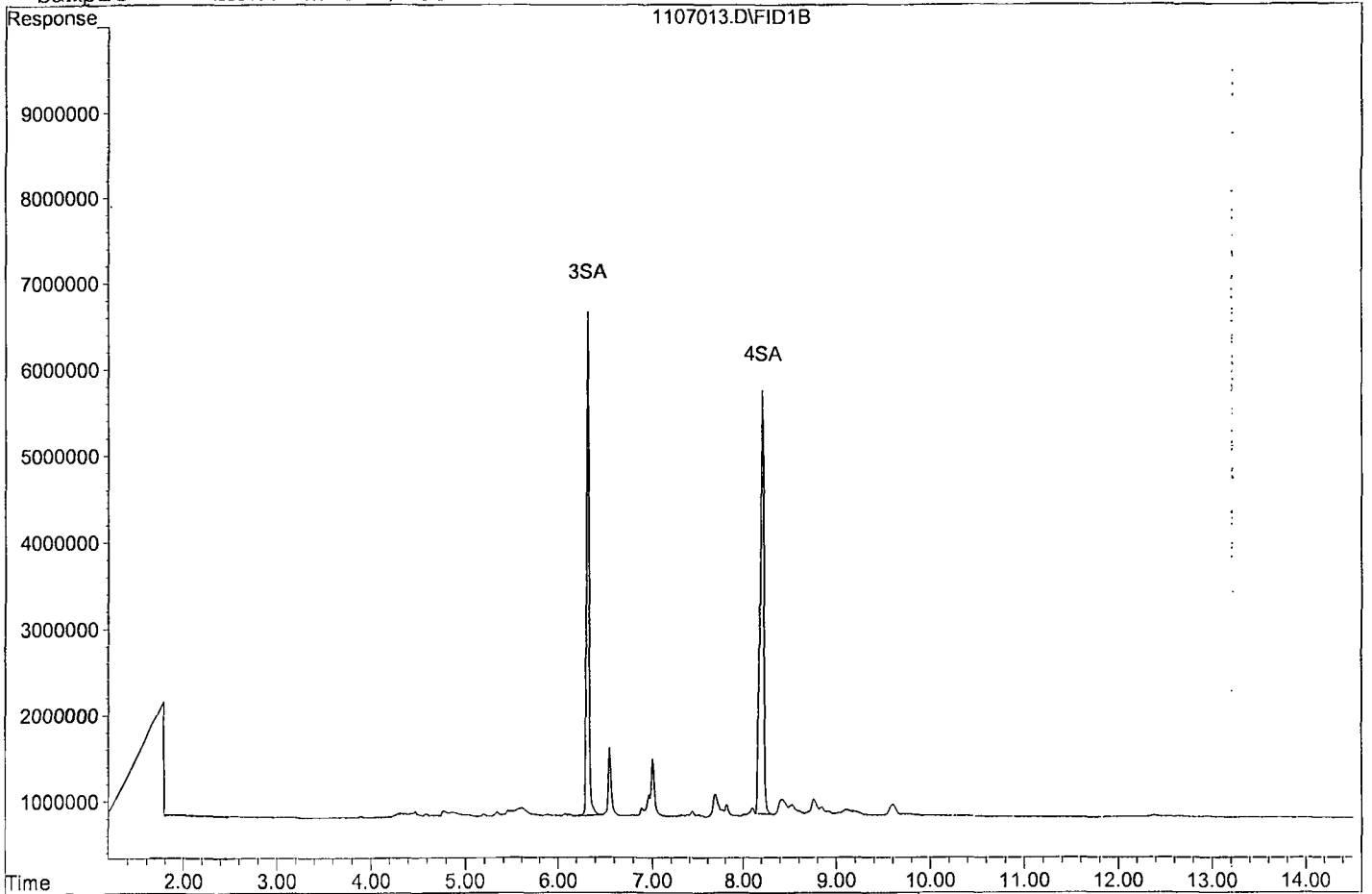
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	105248962	71.569 ppb
Surrogate Spike 75.000		Recovery =	95.43%
4) SA Octacosane(S)	8.21	136631453	93.980 ppb
Surrogate Spike 75.000		Recovery =	125.31%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107013.D

Sample : BA01831W15 2/800



Data File : G:\APOLLO\DATA\191107\1107014.D Vial: 14
 Acq On : 11-7-19 22:21:47 Operator: BT
 Sample : BA01833W15 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 16:04 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

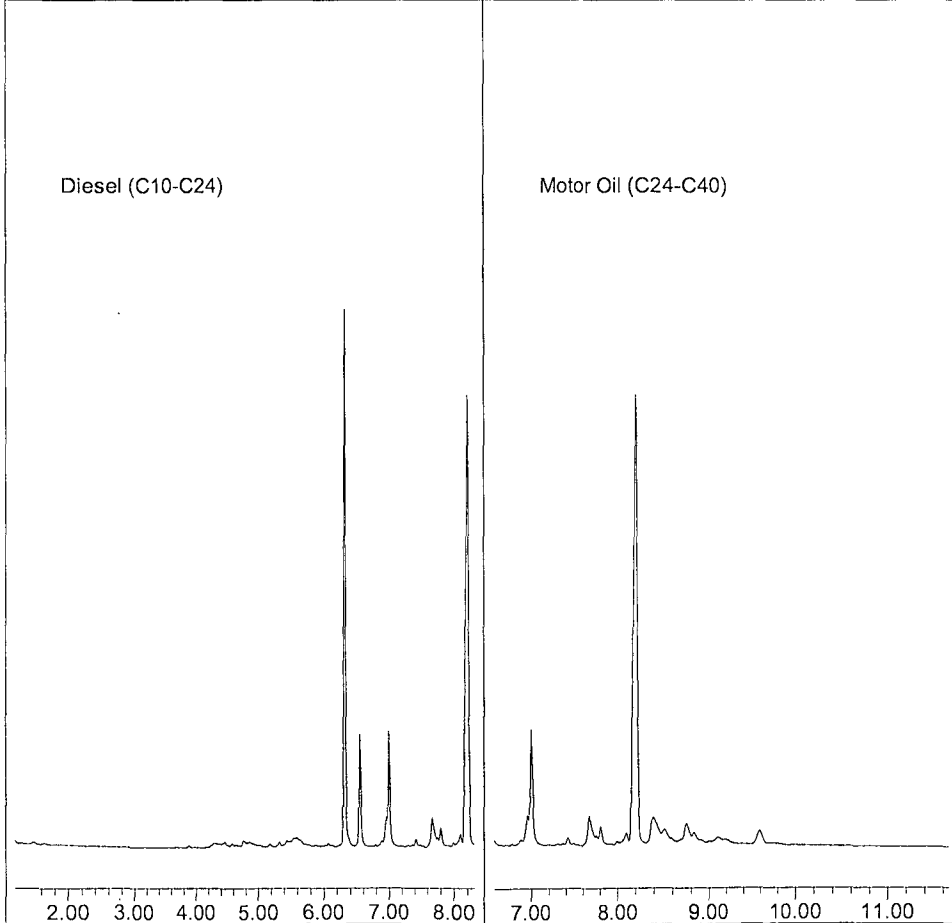
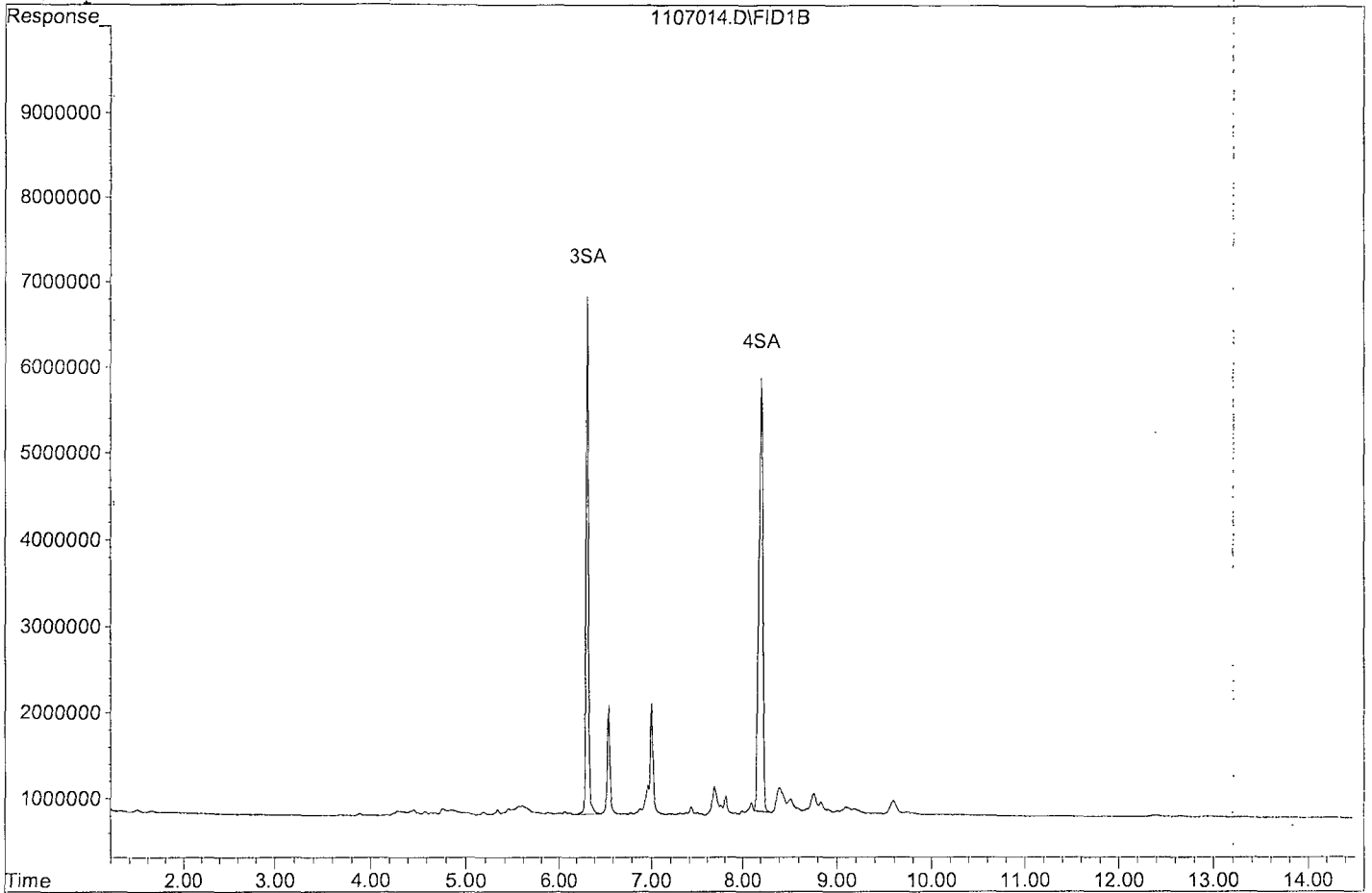
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	109231642	74.277 ppb
Surrogate Spike 75.000		Recovery =	99.04%
4) SA Octacosane(S)	8.21	148539790	102.171 ppb
Surrogate Spike 75.000		Recovery =	136.23%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107014.D

Sample : BA01833W15 2/800



Data File : G:\APOLLO\DATA\191107\1107003.D Vial: 3
 Acq On : 11-7-19 18:37:30 Operator: BT
 Sample : 191029A BLK 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:49 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

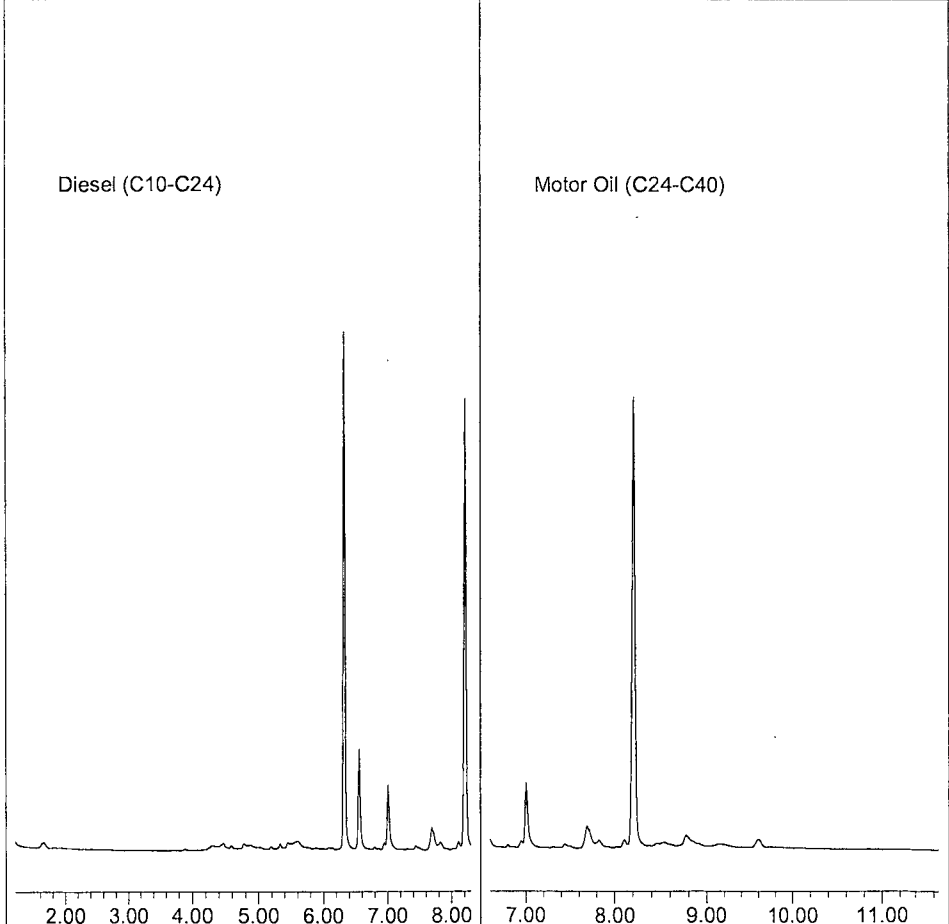
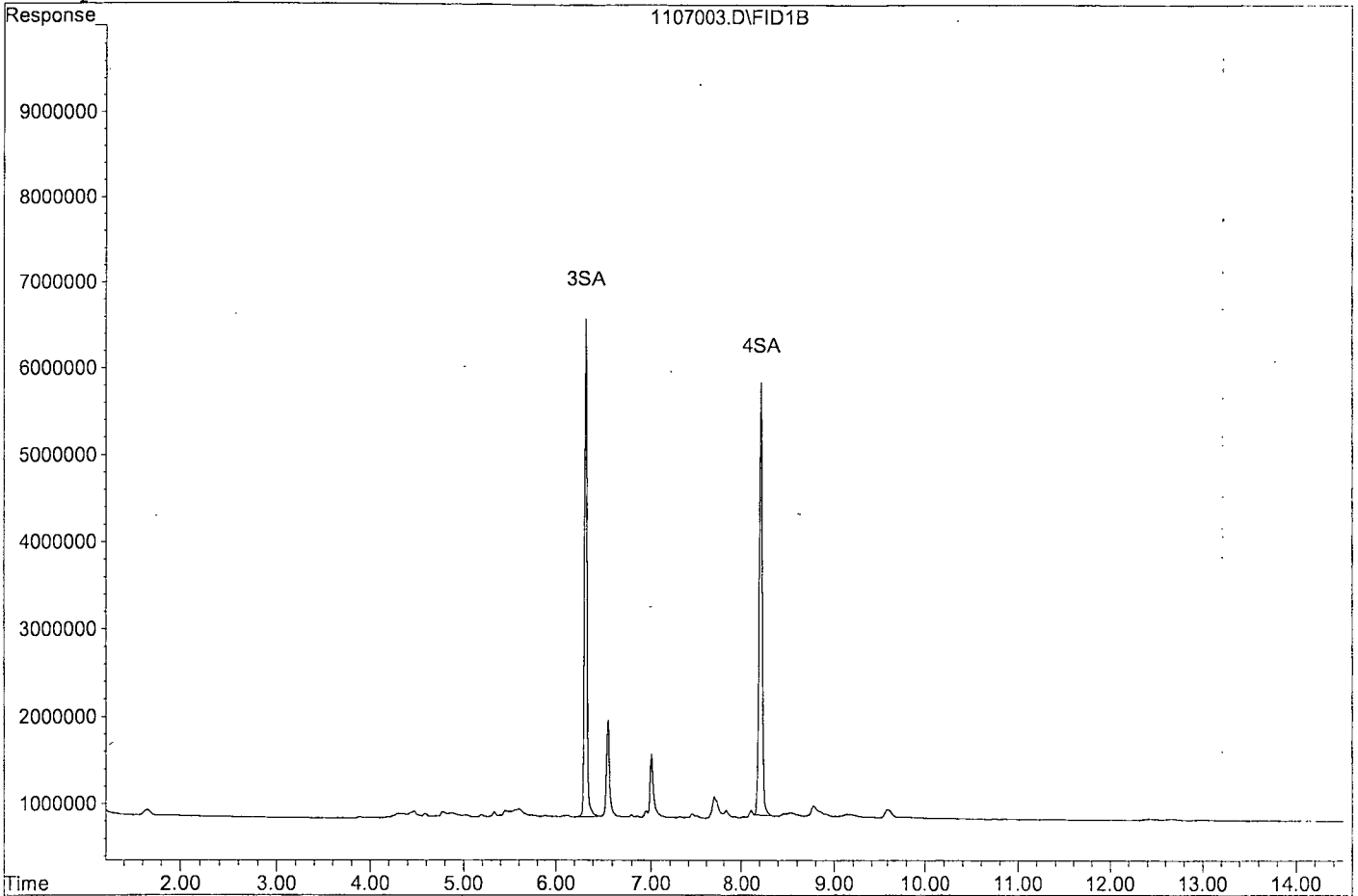
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	6.32	108108569	73.513 ppb
Surrogate Spike 75.000		Recovery =	98.02%
4) SA Octacosane(S)	8.21	110979971	76.336 ppb
Surrogate Spike 75.000		Recovery =	101.78%
Target Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	0.00	0	N.D. ppb
2) HBTM Motor Oil (C24-C40)	0.00	0	N.D. ppb

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107003.D

Sample : 191029A BLK 2/800



Data File : G:\APOLLO\DATA\191107\1107004.D Vial: 4
 Acq On : 11-7-19 18:58:07 Operator: BT
 Sample : 191029A LCS-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	6.32	96807330	65.828 ppb
Surrogate Spike 75.000		Recovery =	87.77%
4) SA Octacosane(S)	8.22	118898355	81.782 ppb
Surrogate Spike 75.000		Recovery =	109.04%

Target Compounds

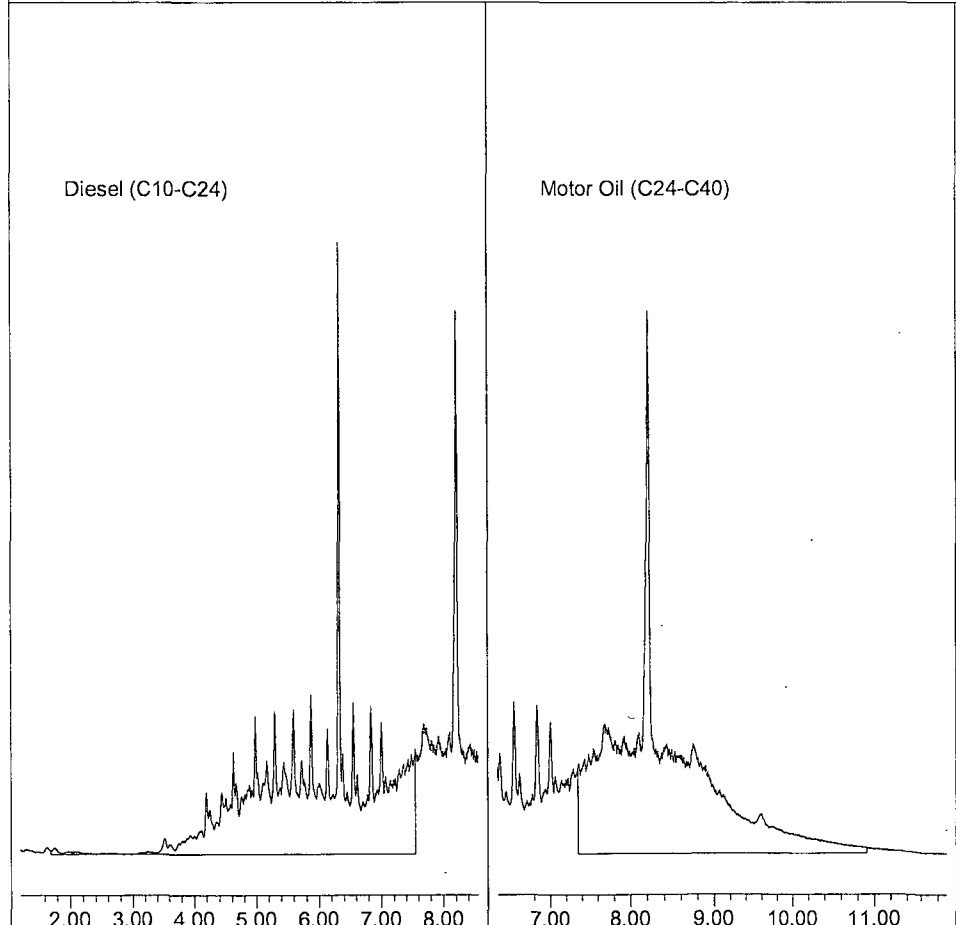
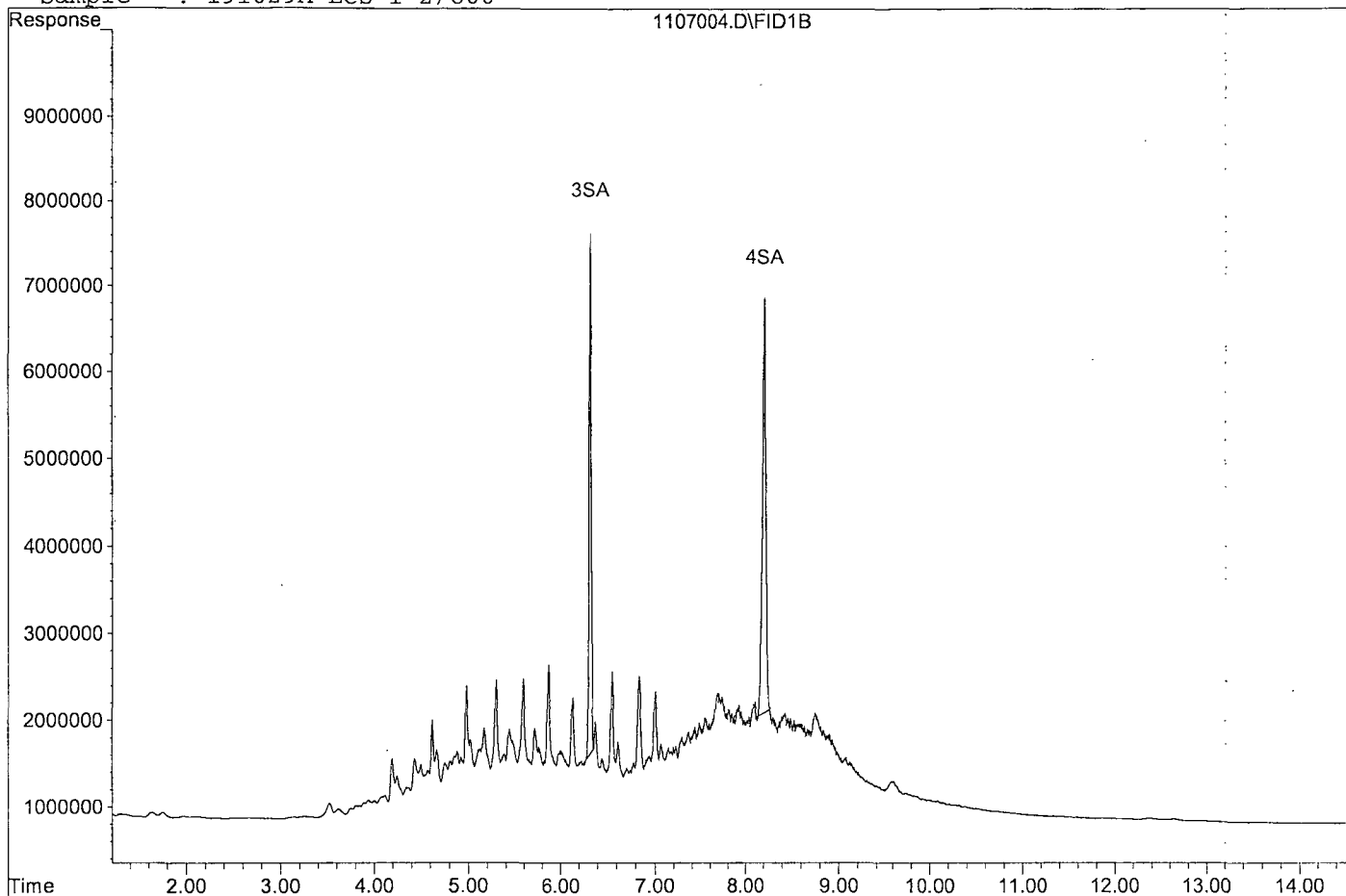
1) HATM Diesel (C10-C24)	4.62	1621409128	1098.059 ppb
2) HBTM Motor Oil (C24-C40)	9.13	1401073021	1293.718 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107004.D

Sample : 191029A LCS-1 2/800



Data File : G:\APOLLO\DATA\191107\1107005.D Vial: 5
 Acq On : 11-7-19 19:18:42 Operator: BT
 Sample : 191029A LCSD-1 2/800 Inst : Apollo
 Misc : water Multiplr: 2.50
 IntFile : events.e
 Quant Time: Nov 12 15:25 2019 Quant Results File: DOC0911.RES

Method : G:\APOLLO\DATA\190911\DOC0911.M (Chemstation Integrator)
 Title : 8015 B&C
 Last Update : Wed Oct 16 08:57:31 2019
 Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Ortho-Terphenyl(S)	6.32	97733733	66.458 ppb
Surrogate Spike 75.000		Recovery =	88.61%
4) SA Octacosane(S)	8.22	125621519	86.407 ppb
Surrogate Spike 75.000		Recovery =	115.21%

Target Compounds

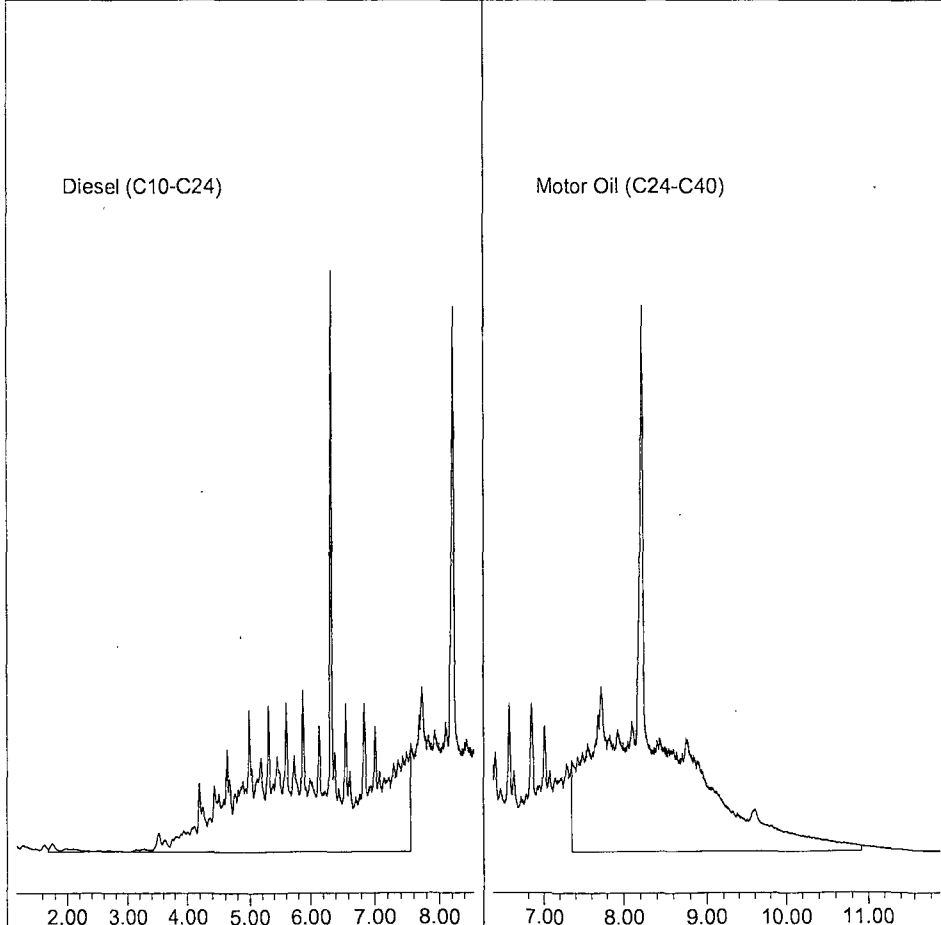
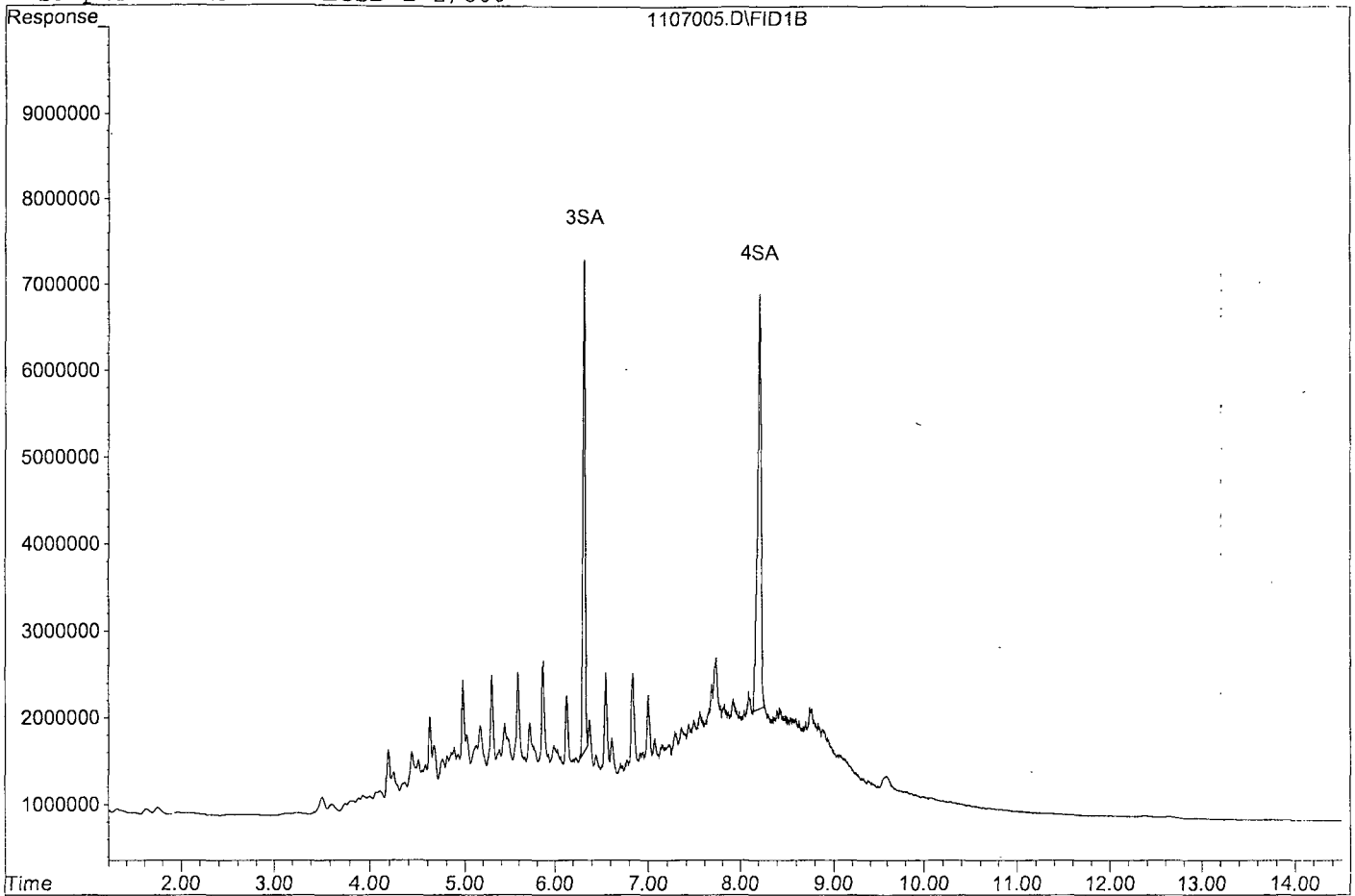
1) HATM Diesel (C10-C24)	4.62	1637344358	1108.851 ppb
2) HBTM Motor Oil (C24-C40)	9.13	1428588363	1319.054 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\191107\1107005.D

Sample : 191029A LCSD-1 2/800



Diesel / Motor Oil Calibration Standard										
Prepared: 09/11/19						Prepared By (Initials): BT				
Expires: 09/11/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Phenova	ALO-101287	50,000	CL13227-40445	09/11/20	02/31/2025	400uL			2000
Motor Oil	Restek	31464	50,000	A0147736-41330	09/11/20	05/31/26	400uL	10mL	MC	2000
THC Surrogate	Phenova	ALO-130161	600	CL13940-41312	09/11/20	07/31/24	1666uL			100

Diesel / Motor Oil Second Source										
Prepared: 01/15/19						Prepared By (Initials): DP				
Expires: 01/15/20										
Methylene Chloride Lot No. 56278										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	O2SI	G34-011598-03	50,000	G34-319187-38958	08/02/19	09/29/21	50uL	10mL	MC	250
Motor Oil Second Source	O2SI	116390-02-SS	50,000	301142-37652	07/13/19	03/05/22	50uL			

Diesel / Motor Oil Calibration Curve										
Prepared: 09/11/19						Prepared By (Initials): BT				
Expires: 03/11/20										
Methylene Chloride Lot No. 58059										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference to APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 1	2,000	Prepared 09/11/19	09/11/20	N/A	5uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 2	2,000	Prepared 09/11/19	09/11/20	N/A	25uL	1mL	MC	50
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 3	2,000	Prepared 09/11/19	09/11/20	N/A	125uL	1mL	MC	250
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 4	2,000	Prepared 09/11/19	09/11/20	N/A	500uL	1mL	MC	1000
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 5	2,000	Prepared 09/11/19	09/11/20	N/A	750uL	1mL	MC	1500
Diesel / Motor Oil Calibration STD	APPL	Diesel / Motor Oil - 6	2,000	Prepared 09/11/19	09/11/20	N/A	100uL	100uL	N/A	2,000

Diesel Spike										
Prepared: 10/28/19						Prepared By (Initials): BT				
Expires: 10/28/20										
Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	A0149066-41319	10/28/20	06/03/26	N/A	N/A	N/A	50,000

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Motor Oil Composite	Restek	31464	50,000	A0147736-41329	10/17/20	05/31/26	N/A	N/A	N/A	50,000

THC Surrogate							Prepared By (Initials): <u>BT</u>			
Prepared: <u>10/29/19</u>										
Expires: <u>10/29/20</u>										
Initial Standard Information						Final Standard Information				
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	CL13256-49450	10/29/20	02/31/2024	N/A	N/A	N/A	600

Organic Extraction Worksheet













Method	Continuous Liq/Liq TPH-Diesel/MO 3520C	Extraction Set	191029A	Extraction Method	LIQ005	Units	mL
Spiked ID 1	Diesel Spike 10/28/19 10/28/20	Surrogate ID 1	THC Surrogate 10/29/19 10/29/20				
Spiked ID 2	Motor Oil Spike 10/17/19 10/17/20	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:					
Spiked ID 7		Ext. Start Time:		10/29/19 12:35			
Spiked ID 8		Ext. End Time:		10/31/19 14:25			
				GC Requires Extract By:			
				pH1		Water Bath Temp 1 °C	NA °C
				pH2		Water Bath Temp 2 °C	
				pH3		Water Bath Temp 3 °C	

Spiked By: DL

Date 10/29/19

Witnessed By: YL

Date 10/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	191029A Blk			0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
2	191029A LCS-1	0.020	1,2	0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
3	191029A LCSD-1	0.020	1,2	0.100	1	800	2	2Y	10/29/19 12:35	
					equip					
4	BA01775 BA01775W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
5	BA01777 BA01777W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
6	BA01779 BA01779W12			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
7	BA01781 BA01781W13			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
8	BA01782 BA01782W13			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
9	BA01784 BA01784W15			0.100	1	800	2	2Y	10/29/19 12:35	90551
					equip					
10	BA01829 BA01829W12			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					
11	BA01831 BA01831W15			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					
12	BA01833 BA01833W15			0.100	1	800	2	2Y	10/29/19 12:35	90559
					equip					

Solvent and Lot#	
1+1 HCL	.6/15/19
PH Strips	.HC863463
Dicholormethane (DCM)	.59130
Filter Paper	.400171
B. Sodium Sulfate	.2019020631
Silica Gel (*)	

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DS
Modified	10/29/19 10:58:47 AM

Reviewed By:

Date

Injection Log

Directory: G:\APOLLO\DATA\190911\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	911003.D	1	Diesel/Motor Oil - 1 9/11/19	water	9-11-19 13:25:10
2	4	911004.D	1	Diesel/Motor Oil - 2 9/11/19	water	9-11-19 13:45:18
3	5	911005.D	1	Diesel/Motor Oil - 3 9/11/19	water	9-11-19 14:04:58
4	6	911006.D	1	Diesel/Motor Oil - 4 9/11/19	water	9-11-19 14:25:14
5	7	911007.D	1	Diesel/Motor Oil - 5 9/11/19	water	9-11-19 14:45:29
6	8	911008.D	1	Diesel/Motor Oil - 6 9/11/19	water	9-11-19 15:05:37
7	9	911009.D	1	Diesel/Motor Oil Second Source 1/15/19	water	9-11-19 15:25:51

Injection Log

Directory: G:\APOLLO\DATA\191107\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1107002.D	1	Diesel Motor Oil CCV 10/21/19	water	11-7-19 18:16:59
2	3	1107003.D	2.5	191029A BLK 2/800	water	11-7-19 18:37:30
3	4	1107004.D	2.5	191029A LCS-1 2/800	water	11-7-19 18:58:07
4	5	1107005.D	2.5	191029A LCSD-1 2/800	water	11-7-19 19:18:42
5	12	1107012.D	2.5	BA01829W12 2/800	water	11-7-19 21:41:29
6	13	1107013.D	2.5	BA01831W15 2/800	water	11-7-19 22:01:38
7	14	1107014.D	2.5	BA01833W15 2/800	water	11-7-19 22:21:47
8	19	1107019.D	1	Diesel Motor Oil CCV 10/21/19	water	11-8-19 0:00:37

**ORGANICS
Calibration Data**

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/28/19
Instrument: Linus

Initials: MA/CP

1028L005.D 1028L006.D 1028L007.D 1028L008.D 1028L004.D 1028L009.D 1028L010.D 1028L011.D

	Compound	0.1	0.2	0.5	1	5	20	50	100			Avg	%RSD	Type	r^2	q	MRF
1	I Naphthalene-D8(IS)																
2	S Surrogate Recovery (NBZ)	0.6154	0.4960	0.4602	0.4714	0.4325	0.4265	0.4474	0.4616			0.48	13	S			
3	TM Naphthalene	1.353	1.324	1.228	1.322	1.154	1.233	1.170	1.137			1.2	6.8	TM			0.700
4	S 2-Methylnaphthalene-D10 (2M)	1.381	1.311	1.233	1.321	1.228	1.192	1.177	1.148			1.2	6.5	S			
5	TM 2-Methylnaphthalene	0.7871	0.7676	0.7353	0.7876	0.7127	0.7463	0.6996	0.6884			0.74	5.2	TM			0.400
6	TM 1-Methylnaphthalene	0.8729	0.8587	0.7207	0.7851	0.7016	0.7332	0.6925	0.6878			0.76	9.8	TM			
7	I Acenaphthene-D10(IS)																
8	S Surrogate Recovery (FBP)	2.084	2.067	1.863	2.099	1.844	1.830	1.715	1.653			1.9	9.1	S			
9	TM Acenaphthylene	5.495	5.363	5.078	5.658	5.251	5.751	5.010	4.930			5.3	5.7	TM			0.900
10	*TM Acenaphthene	1.708	1.625	1.517	1.618	1.412	1.529	1.338	1.439			1.5	8.1	*TM			0.900
11	TM Fluorene	1.748	1.717	1.628	1.812	1.633	1.776	1.673	1.592			1.7	4.6	TM			0.900
12	I Phenanthrene-D10(IS)																
13	TM Phenanthrene	1.669	1.541	1.498	1.635	1.381	1.470	1.355	1.265			1.5	9.4	TM			0.700
14	TM Anthracene	1.260	1.193	1.201	1.358	1.291	1.363	1.276	1.260			1.3	4.9	TM			0.700
15	S Fluoranthene-D10 (FRT)	1.894	1.787	1.721	1.903	1.860	1.907	1.799	1.683			1.8	4.7	S			
16	*TM Fluoranthene	2.125	1.989	1.963	2.216	2.039	2.159	1.845	1.771			2.0	7.6	*TM			0.600
17	I Chrysene-D12(IS)																
18	TM Pyrene	1.917	1.787	1.752	1.917	1.747	1.808	1.714	1.669			1.8	5.0	TM			0.600
19	S Surrogate Recovery (TPH)	1.035	0.9626	0.9160	0.9919	0.9371	0.9175	0.9804	0.9502			0.96	4.2	S			
20	TM Benz (a) anthracene	1.534	1.359	1.345	1.415	1.416	1.448	1.430	1.415			1.4	4.0	TM			0.800
21	TM Chrysene	1.877	1.680	1.536	1.668	1.444	1.534	1.433	1.409			1.6	10	TM			0.700
22	TM Indeno (1,2,3-cd) pyrene	1.476	1.215	1.084	1.244	1.392	1.511	1.583	1.595			1.4	14	TM			0.500
23	I Perylene-D12(IS)																
24	TM Benzo (b) fluoranthene	1.329	1.058	1.106	1.231	1.301	1.421	1.375	1.322			1.3	10	TM			0.700
25	TM Benzo (k) fluoranthene	1.285	1.483	1.360	1.569	1.476	1.628	1.346	1.365			1.4	8.3	TM			0.700
26	*TM Benzo (a) pyrene	1.142	0.9908	0.9637	1.073	1.246	1.377	1.283	1.260			1.2	13	*TM			0.700
27	TM Dibenz (a,h) anthracene	1.207	1.035	0.9842	1.085	1.167	1.279	1.208	1.243			1.2	9.1	TM			0.400
28	TM Benzo (g,h,i) perylene	1.405	1.180	1.137	1.241	1.225	1.358	1.281	1.283			1.3	7.0	TM			0.500
29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\LINUS\DATA\L191028\1028L004.D
 Acq On : 28 Oct 19 12:26
 Sample : 5 SIM 10/28/19(2)
 Misc :

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:37 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:36:52 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
1) Naphthalene-D8 (IS)	4.27	136	42509	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17630	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30825	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	35746	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	35057	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QI on	Response	Conc	Units	Dev (Min)
2) Surrogate Recovery (NBZ)	3.49	82	18387	2.26999	ppb	0.00
Spiked Amount 5.000			Recovery =	45.400%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	52219	2.45912	ppb	0.00
Spiked Amount 5.000			Recovery =	49.180%		
8) Surrogate Recovery (FBP)	5.52	172	32516	2.43389	ppb	0.00
Spiked Amount 5.000			Recovery =	48.680%		
15) Fluoranthene-D10 (FRT)	9.37	212	57325	2.55457	ppb	0.00
Spiked Amount 5.000			Recovery =	51.100%		
19) Surrogate Recovery (TPH)	9.86	244	33496	2.43703	ppb	0.00
Spiked Amount 5.000			Recovery =	48.740%		

Target Compounds	R.T.	QI on	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	98104	4.65241	ppb	100
5) 2-Methylnaphthalene	5.08	142	60590	4.81172	ppb	100
6) 1-Methylnaphthalene	5.19	142	59650	4.63689	ppb	100
9) Acenaphthylene	6.11	152	185151	4.93782	ppb	100
10) Acenaphthene	6.30	154	49783	4.63497	ppb	100
11) Fluorene	6.90	166	57596	4.81102	ppb	100
13) Phenanthrene	8.01	178	85147	4.67624	ppb	100
14) Anthracene	8.08	178	79570	5.06096	ppb	100
16) Fluoranthene	9.39	202	125700	5.02216	ppb	100
18) Pyrene	9.64	202	124886	4.88571	ppb	100
20) Benz (a) anthracene	11.09	228	101233	4.98555	ppb	100
21) Chrysene	11.14	228	103205	4.58223	ppb	100
22) Indeno (1,2,3-cd) pyrene	15.00	276	99497	5.01530	ppb	# 100
24) Benzo (b) fluoranthene	12.90	252	91200	5.12901	ppb	100
25) Benzo (k) fluoranthene	12.95	252	103463	5.12718	ppb	100
26) Benzo (a) pyrene	13.43	252	87360	5.33556	ppb	100
27) Dibenz (a,h) anthracene	15.05	278	81789	5.06796	ppb	100
28) Benzo (g,h,i) perylene	15.38	276	85903	4.84757	ppb	100

(#) = qualifier out of range (m) = manual integration
 1028L004.D L1028.M Wed Oct 30 10:46:52 2019

Quantitation Report

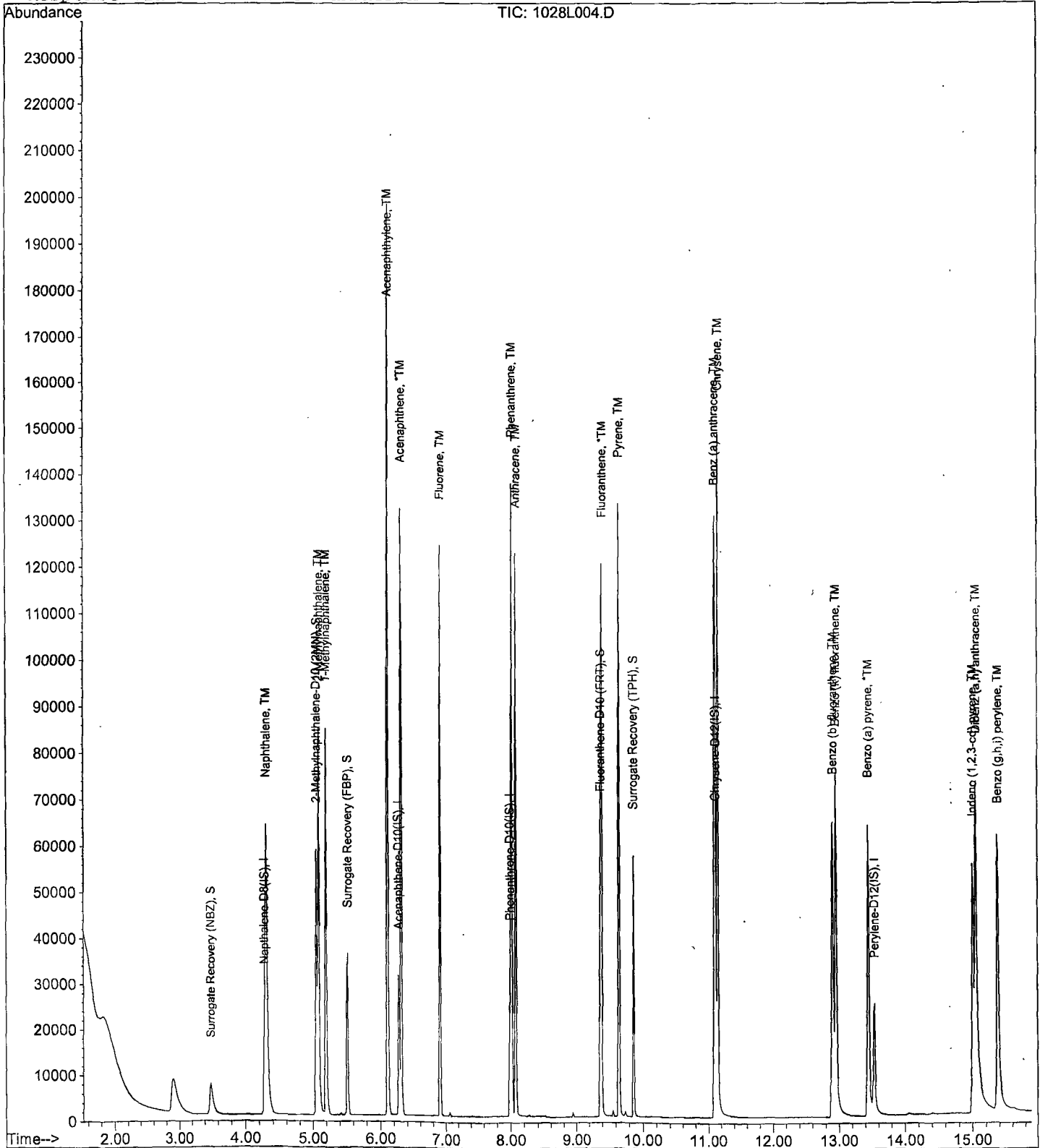
Data File : M:\LINUS\DATA\L191028\1028L004.D
 Acq On : 28 Oct 19 12:26
 Sample : 5 SIM 10/28/19(2)
 Misc :

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:37 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L005.D
 Acq On : 28 Oct 19 12:51
 Sample : 0.1 SIM 10/28/19
 Misc :

Vial: 5
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	39324	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	16174	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	28360	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	31560	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.52	264	31724	2.50000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	484	0.06459	ppb	0.00
Spiked Amount 5.000			Recovery =	1.300%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	1086	0.05528	ppb	0.00
Spiked Amount 5.000			Recovery =	1.100%		
8) Surrogate Recovery (FBP)	5.52	172	674	0.05499	ppb	0.00
Spiked Amount 5.000			Recovery =	1.100%		
15) Fluoranthene-D10 (FRT)	9.36	212	1074	0.05202	ppb	-0.01
Spiked Amount 5.000			Recovery =	1.040%		
19) Surrogate Recovery (TPH)	9.86	244	653	0.05381	ppb	0.00
Spiked Amount 5.000			Recovery =	1.080%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	2128	0.10909	ppb	99
5) 2-Methylnaphthalene	5.08	142	1238	0.10628	ppb	99
6) 1-Methylnaphthalene	5.19	142	1373	0.11537	ppb	95
9) Acenaphthylene	6.11	152	3555	0.10334	ppb	99
10) Acenaphthene	6.30	154	1105	0.11214	ppb	95
11) Fluorene	6.90	166	1131	0.10298	ppb	98
13) Phenanthrene	8.02	178	1893	0.11300	ppb	98
14) Anthracene	8.08	178	1429	0.09879	ppb	99
16) Fluoranthene	9.38	202	2411	0.10470	ppb	# 85
18) Pyrene	9.64	202	2420	0.10723	ppb	94
20) Benz (a) anthracene	11.09	228	1936	0.10799	ppb	99
21) Chrysene	11.14	228	2369	0.11913	ppb	96
22) Indeno (1,2,3-cd) pyrene	15.00	276	1863	0.10636	ppb	# 93
24) Benzo (b) fluoranthene	12.89	252	1687	0.10484	ppb	98
25) Benzo (k) fluoranthene	12.95	252	1630	0.08926	ppb	96
26) Benzo (a) pyrene	13.43	252	1449	0.09780	ppb	96
27) Dibenz (a,h) anthracene	15.04	278	1531	0.10483	ppb	# 91
28) Benzo (g,h,i) perylene	15.37	276	1783	0.11119	ppb	99

(#) = qualifier out of range (m) = manual integration
 1028L005.D L1028.M Wed Oct 30 10:46:58 2019

Quantitation Report

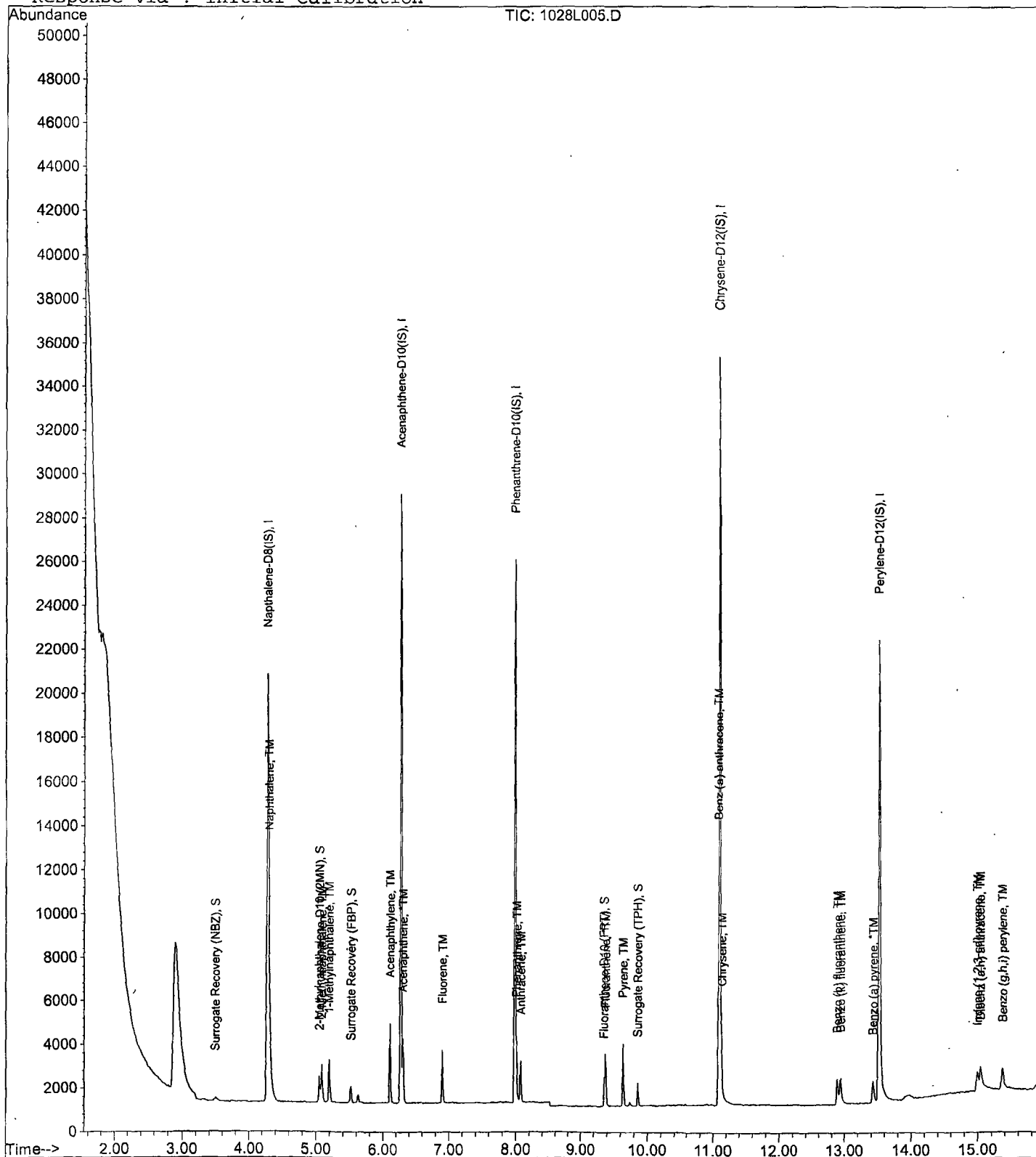
Data File : M:\LINUS\DATA\L191028\1028L005.D
Acq On : 28 Oct 19 12:51
Sample : 0.1 SIM 10/28/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L006.D
 Acq On : 28 Oct 19 13:13
 Sample : 0.2 SIM 10/28/19
 Misc :

Vial: 6
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	38562	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	15986	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	28375	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.10	240	31295	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.52	264	30972	2.50000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	765	0.10411	ppb	0.00
Spiked Amount 5.000			Recovery =	2.080%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	2022	0.10497	ppb	0.00
Spiked Amount 5.000			Recovery =	2.100%		
8) Surrogate Recovery (FBP)	5.52	172	1322	0.10913	ppb	0.00
Spiked Amount 5.000			Recovery =	2.180%		
15) Fluoranthene-D10 (FRT)	9.36	212	2028	0.09818	ppb	-0.01
Spiked Amount 5.000			Recovery =	1.960%		
19) Surrogate Recovery (TPH)	9.86	244	1205	0.10014	ppb	0.00
Spiked Amount 5.000			Recovery =	2.000%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	4084	0.21350	ppb	99
5) 2-Methylnaphthalene	5.08	142	2368	0.20730	ppb	97
6) 1-Methylnaphthalene	5.19	142	2649	0.22700	ppb	98
9) Acenaphthylene	6.11	152	6859	0.20174	ppb	99
10) Acenaphthene	6.30	154	2078	0.21337	ppb	99
11) Fluorene	6.90	166	2196	0.20230	ppb	97
13) Phenanthrene	8.01	178	3498	0.20870	ppb	99
14) Anthracene	8.08	178	2709	0.18718	ppb	100
16) Fluoranthene	9.38	202	4516	0.19601	ppb	# 82
18) Pyrene	9.64	202	4473	0.19988	ppb	94
20) Benz (a) anthracene	11.09	228	3402	0.19137	ppb	98
21) Chrysene	11.14	228	4205	0.21325	ppb	96
22) Indeno (1,2,3-cd) pyrene	15.00	276	3043	0.17520	ppb	# 80
24) Benzo (b) fluoranthene	12.89	252	2622	0.16691	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	3675	0.20614	ppb	97
26) Benzo (a) pyrene	13.43	252	2455	0.16972	ppb	# 93
27) Dibenz (a,h) anthracene	15.04	278	2564	0.17983	ppb	95
28) Benzo (g,h,i) perylene	15.37	276	2923	0.18670	ppb	93

Quantitation Report

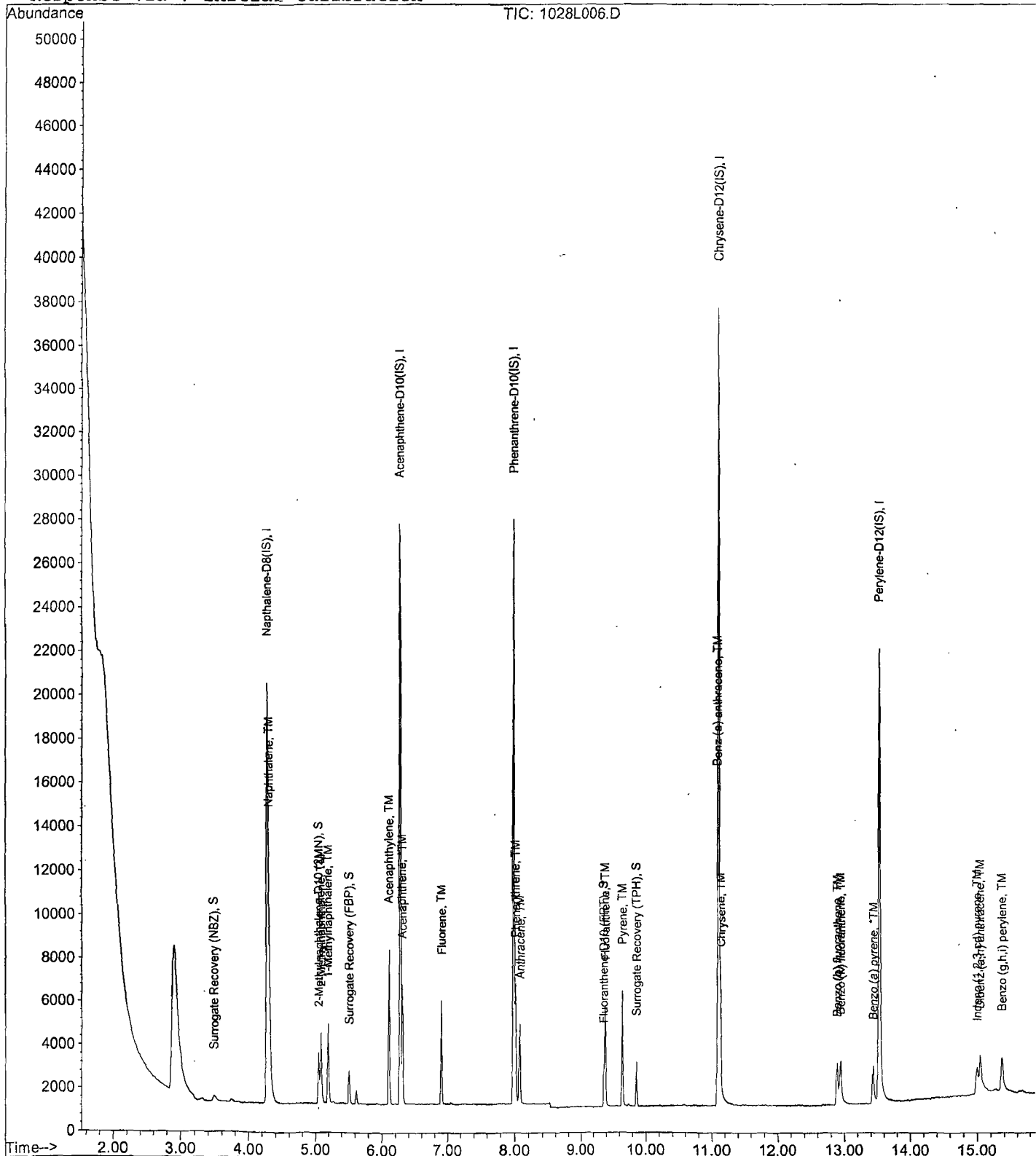
Data File : M:\LINUS\DATA\L191028\1028L006.D
Acq On : 28 Oct 19 13:13
Sample : 0.2 SIM 10/28/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:34 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L007.D
 Acq On : 28 Oct 19 13:35
 Sample : 0.5 SIM 10/28/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	37004	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.28	164	15527	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	27459	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	30862	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	29964	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	1703	0.24152	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.840%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	4562	0.24680	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.940%	
8) Surrogate Recovery (FBP)	5.52	172	2893	0.24588	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.920%	
15) Fluoranthene-D10 (FRT)	9.37	212	4727	0.23647	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.720%	
19) Surrogate Recovery (TPH)	9.86	244	2827	0.23823	ppb	0.00
Spiked Amount	5.000		Recovery	=	4.760%	
Target Compounds						
						Qvalue
3) Naphthalene	4.30	128	9091	0.49526	ppb	99
5) 2-Methylnaphthalene	5.08	142	5442	0.49647	ppb	100
6) 1-Methylnaphthalene	5.19	142	5334	0.47632	ppb	96
9) Acenaphthylene	6.11	152	15769	0.47751	ppb	100
10) Acenaphthene	6.30	154	4710	0.49791	ppb	98
11) Fluorene	6.90	166	5056	0.47953	ppb	98
13) Phenanthrene	8.02	178	8228	0.50727	ppb	98
14) Anthracene	8.08	178	6595	0.47089	ppb	99
16) Fluoranthene	9.39	202	10783	0.48363	ppb	98
18) Pyrene	9.64	202	10814	0.49001	ppb	96
20) Benz (a) anthracene	11.09	228	8304	0.47368	ppb	99
21) Chrysene	11.14	228	9479	0.48746	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.00	276	6693	0.39076	ppb	# 90
24) Benzo (b) fluoranthene	12.89	252	6629	0.43618	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	8149	0.47247	ppb	97
26) Benzo (a) pyrene	13.44	252	5775	0.41266	ppb	95
27) Dibenz (a,h) anthracene	15.04	278	5898	0.42758	ppb	# 89
28) Benzo (g,h,i) perylene	15.37	276	6815	0.44994	ppb	95

(#) = qualifier out of range (m) = manual integration
 1028L007.D L1028.M Wed Oct 30 10:47:09 2019

Quantitation Report

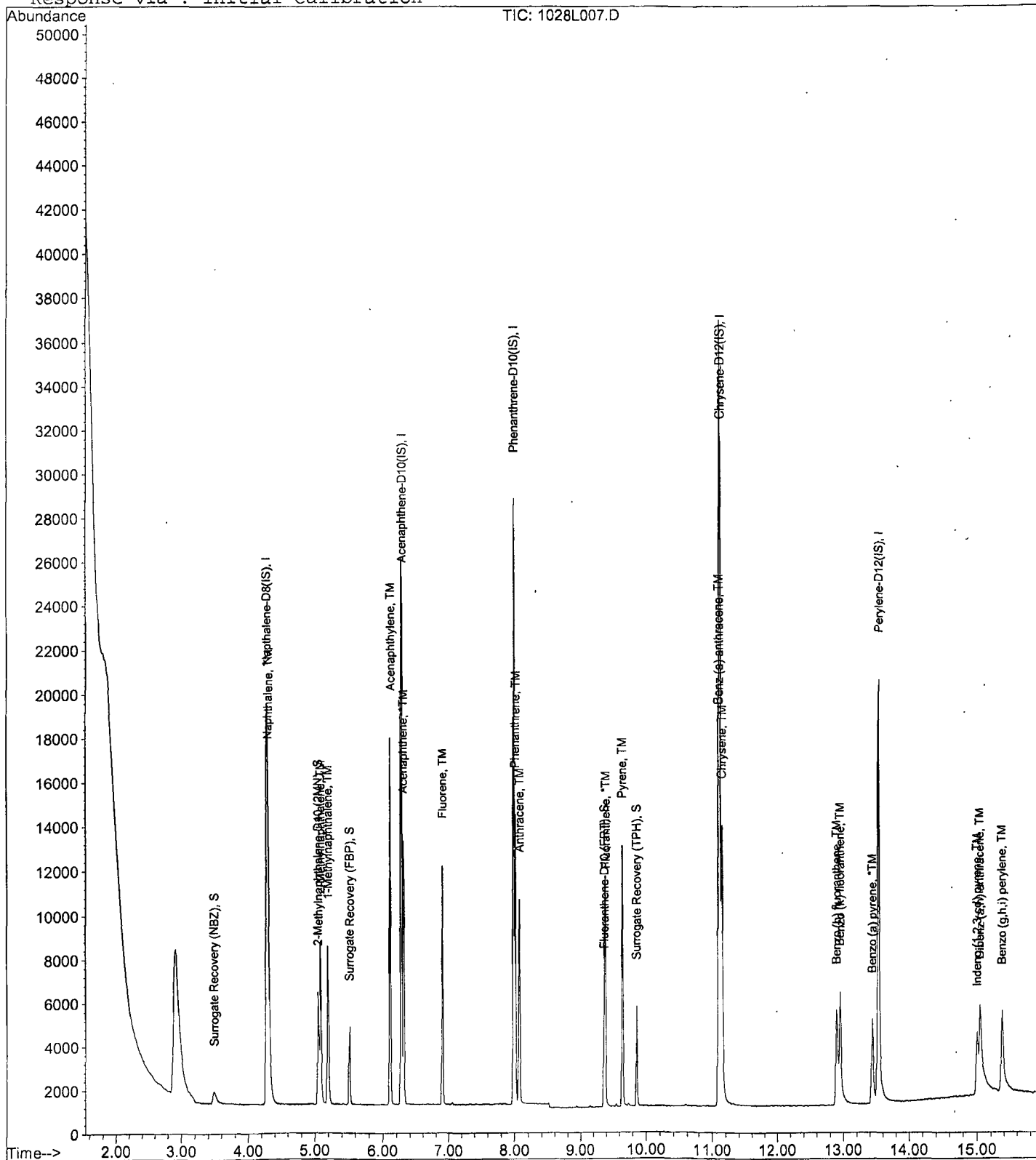
Data File : M:\LINUS\DATA\L191028\1028L007.D
 Acq On : 28 Oct 19 13:35
 Sample : 0.5 SIM 10/28/19
 Misc :

Vial: 7
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L008.D
 Acq On : 28 Oct 19 13:57
 Sample : 1 SIM 10/28/19
 Misc :

Vial: 8
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.29	136	32025	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	13099	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	23028	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.11	240	26425	2.50000	ppb	0.00
23) Perylene-D12(IS)	13.53	264	25032	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	3019	0.49473	ppb	0.00
Spiked Amount	5.000		Recovery	=	9.900%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	8459	0.52876	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.580%	
8) Surrogate Recovery (FBP)	5.52	172	5500	0.55409	ppb	0.00
Spiked Amount	5.000		Recovery	=	11.080%	
15) Fluoranthene-D10 (FRT)	9.37	212	8766	0.52290	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.460%	
19) Surrogate Recovery (TPH)	9.86	244	5242	0.51591	ppb	0.00
Spiked Amount	5.000		Recovery	=	10.320%	
Target Compounds						
						Qvalue
3) Naphthalene	4.30	128	16930	1.06571	ppb	100
5) 2-Methylnaphthalene	5.08	142	10089	1.06351	ppb	99
6) 1-Methylnaphthalene	5.19	142	10057	1.03771	ppb	97
9) Acenaphthylene	6.11	152	29648	1.06419	ppb	99
10) Acenaphthene	6.31	154	8477	1.06224	ppb	88
11) Fluorene	6.90	166	9496	1.06758	ppb	97
13) Phenanthrene	8.01	178	15064	1.10743	ppb	100
14) Anthracene	8.08	178	12506	1.06475	ppb	100
16) Fluoranthene	9.39	202	20409	1.09150	ppb	100
18) Pyrene	9.64	202	20263	1.07233	ppb	98
20) Benz (a) anthracene	11.10	228	14953	0.99617	ppb	97
21) Chrysene	11.14	228	17636	1.05923	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.00	276	13150	0.89665	ppb	# 94
24) Benzo (b) fluoranthene	12.90	252	12330	0.97114	ppb	99
25) Benzo (k) fluoranthene	12.95	252	15715	1.09065	ppb	99
26) Benzo (a) pyrene	13.43	252	10748	0.91934	ppb	99
27) Dibenz (a,h) anthracene	15.05	278	10865	0.94286	ppb	98
28) Benzo (g,h,i) perylene	15.37	276	12422	0.98172	ppb	# 89

(#) = qualifier out of range (m) = manual integration
 1028L008.D L1028.M Wed Oct 30 10:47:14 2019

Quantitation Report

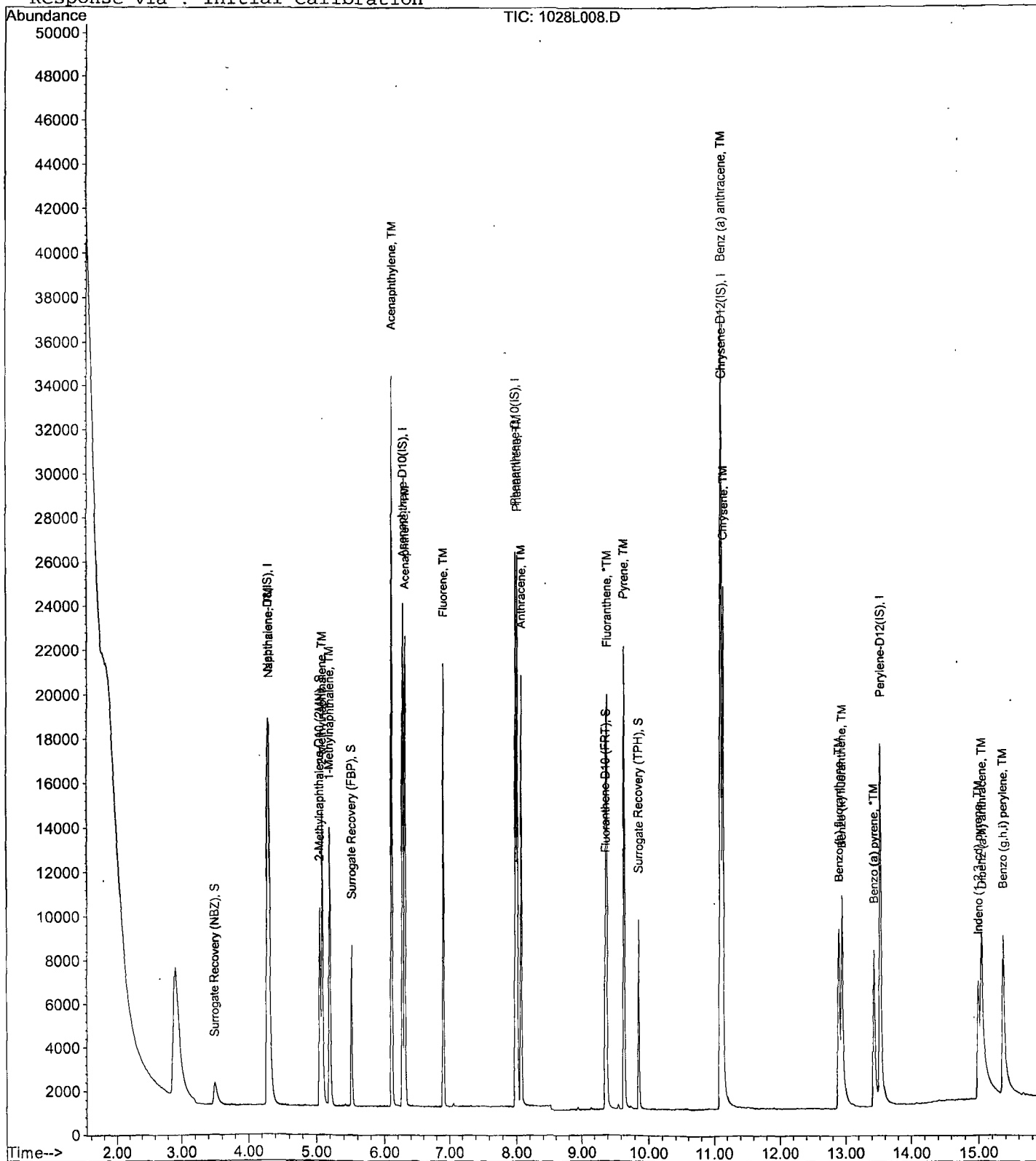
Data File : M:\LINUS\DATA\L191028\1028L008.D
Acq On : 28 Oct 19 13:57
Sample : 1 SIM 10/28/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L009.D
 Acq On : 28 Oct 19 14:19
 Sample : 20 SIM 10/28/19
 Misc :

Vial: 9
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:34:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.29	136	32869	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	13416	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	23677	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.11	240	28661	2.50000	ppb	0.00
23) Perylene-D12(IS)	13.53	264	27623	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	56078	8.95364	ppb	0.00
Spiked Amount	5.000		Recovery	=	179.080%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	156708	9.54415	ppb	0.00
Spiked Amount	5.000		Recovery	=	190.880%	
8) Surrogate Recovery (FBP)	5.52	172	98204	9.65967	ppb	0.00
Spiked Amount	5.000		Recovery	=	193.200%	
15) Fluoranthene-D10 (FRT)	9.37	212	180565	10.47571	ppb	0.00
Spiked Amount	5.000		Recovery	=	209.520%	
19) Surrogate Recovery (TPH)	9.86	244	105182	9.54434	ppb	0.00
Spiked Amount	5.000		Recovery	=	190.880%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.31	128	324267	19.88786	ppb	99
5) 2-Methylnaphthalene	5.08	142	196246	20.15556	ppb	98
6) 1-Methylnaphthalene	5.19	142	192793	19.38213	ppb	96
9) Acenaphthylene	6.11	152	617256	21.63237	ppb	99
10) Acenaphthene	6.31	154	164055	20.07171	ppb	88
11) Fluorene	6.90	166	190667	20.92904	ppb	96
13) Phenanthrene	8.01	178	278373	19.90356	ppb	99
14) Anthracene	8.08	178	258173	21.37818	ppb	98
16) Fluoranthene	9.39	202	408909	21.26956	ppb	# 88
18) Pyrene	9.65	202	414663	20.23232	ppb	# 88
20) Benz (a) anthracene	11.10	228	331965	20.39010	ppb	99
21) Chrysene	11.15	228	351823	19.48211	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.02	276	346411	21.77783	ppb	# 80
24) Benzo (b) fluoranthene	12.91	252	314014	22.41257	ppb	98
25) Benzo (k) fluoranthene	12.97	252	359815	22.62958	ppb	# 94
26) Benzo (a) pyrene	13.45	252	304231	23.58169	ppb	98
27) Dibenz (a,h) anthracene	15.07	278	282549	22.21959	ppb	96
28) Benzo (g,h,i) perylene	15.39	276	300183	21.49840	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1028L009.D L1028.M Wed Oct 30 10:47:19 2019

Quantitation Report

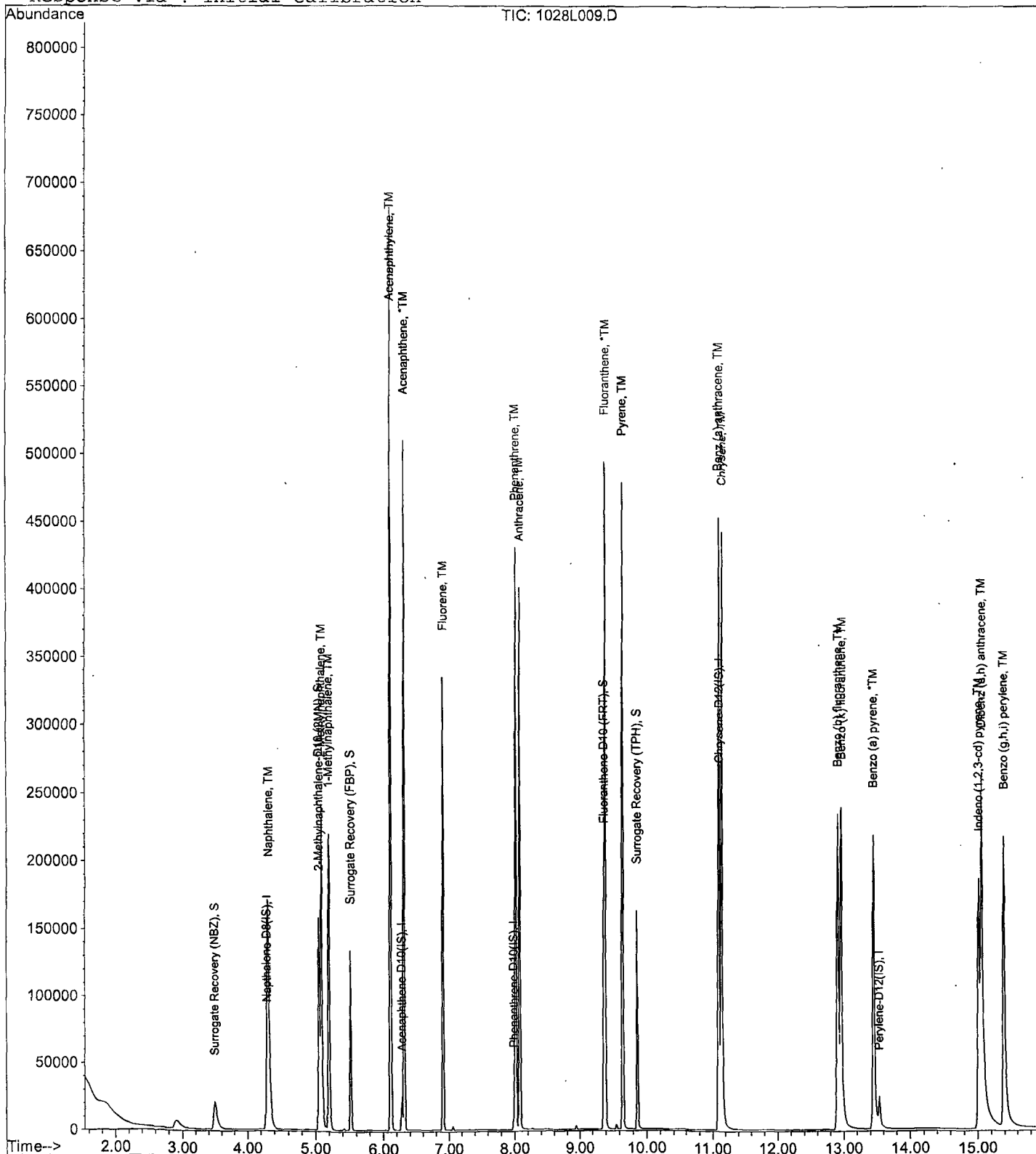
Data File : M:\LINUS\DATA\L191028\1028L009.D
Acq On : 28 Oct 19 14:19
Sample : 20 SIM 10/28/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:35 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L010.D Vial: 10
 Acq On : 28 Oct 19 14:42 Operator: MA
 Sample : 50 SIM 10/28/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:39 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:03 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.29	136	36782	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.28	164	15743	2.50000	ppb	0.01
12) Phenanthrene-D10 (IS)	7.99	188	27764	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.12	240	31502	2.50000	ppb	0.01
23) Perylene-D12 (IS)	13.54	264	33834	2.50000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	164569	23.48044	ppb	0.00
Spiked Amount	5.000		Recovery	= 469.600%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	432823	23.55633	ppb	0.00
Spiked Amount	5.000		Recovery	= 471.120%		
8) Surrogate Recovery (FBP)	5.52	172	269987	22.63141	ppb	0.00
Spiked Amount	5.000		Recovery	= 452.620%		
15) Fluoranthene-D10 (FRT)	9.38	212	499535	24.71499	ppb	0.01
Spiked Amount	5.000		Recovery	= 494.300%		
19) Surrogate Recovery (TPH)	9.87	244	308848	25.49780	ppb	0.01
Spiked Amount	5.000		Recovery	= 509.960%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.31	128	860769	47.17621	ppb	99
5) 2-Methylnaphthalene	5.10	142	514626	47.23207	ppb	96
6) 1-Methylnaphthalene	5.20	142	509460	45.76902	ppb	97
9) Acenaphthylene	6.11	152	1577589	47.11599	ppb	99
10) Acenaphthene	6.31	154	421153	43.91071	ppb	92
11) Fluorene	6.92	166	526911	49.28860	ppb	97
13) Phenanthrene	8.03	178	752594	45.88906	ppb	99
14) Anthracene	8.09	178	708446	50.02779	ppb	99
16) Fluoranthene	9.40	202	1024241	45.43376	ppb	# 91
18) Pyrene	9.66	202	1079871	47.93751	ppb	# 84
20) Benz (a) anthracene	11.11	228	900763	50.33740	ppb	98
21) Chrysene	11.16	228	902898	45.48872	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.04	276	997292	57.04250	ppb	# 80
24) Benzo (b) fluoranthene	12.92	252	930609	54.22848	ppb	100
25) Benzo (k) fluoranthene	12.99	252	911111	46.78279	ppb	100
26) Benzo (a) pyrene	13.47	252	868154	54.93963	ppb	97
27) Dibenz (a,h) anthracene	15.09	278	817460	52.48391	ppb	97
28) Benzo (g,h,i) perylene	15.42	276	866669	50.67466	ppb	93

Quantitation Report

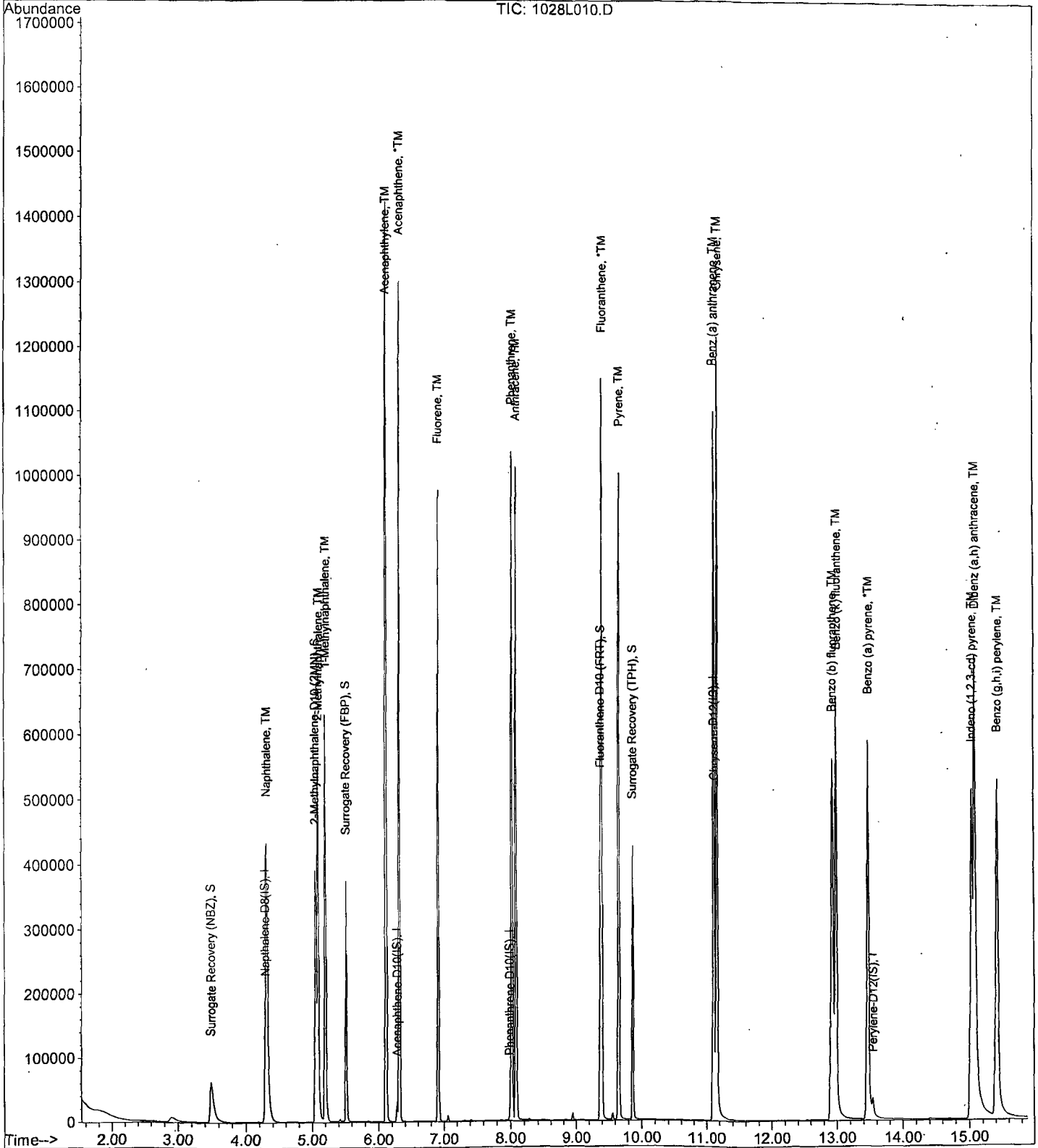
Data File : M:\LINUS\DATA\L191028\1028L010.D
Acq On : 28 Oct 19 14:42
Sample : 50 SIM 10/28/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L011.D
 Acq On : 28 Oct 19 15:04
 Sample : 100 SIM 10/28/19
 Misc :

Vial: 11
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:03 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8(IS)	4.29	136	35886	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	15357	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	27888	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.13	240	31266	2.50000	ppb	0.02
23) Perylene-D12(IS)	13.54	264	33574	2.50000	ppb	0.01

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	3.49	82	331274	48.44577	ppb	0.00
Spiked Amount	5.000					
				Recovery	=	968.920%
4) 2-Methylnaphthalene-D10 (2)	5.06	152	824254	45.97997	ppb	0.01
Spiked Amount	5.000					
				Recovery	=	919.600%
8) Surrogate Recovery (FBP)	5.52	172	507607	43.61919	ppb	0.00
Spiked Amount	5.000					
				Recovery	=	872.380%
15) Fluoranthene-D10 (FRT)	9.38	212	938946	46.24873	ppb	0.01
Spiked Amount	5.000					
				Recovery	=	924.980%
19) Surrogate Recovery (TPH)	9.87	244	594165	49.42319	ppb	0.01
Spiked Amount	5.000					
				Recovery	=	988.460%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.31	128	1632322	91.69646	ppb	99
5) 2-Methylnaphthalene	5.09	142	988093	92.95084	ppb	96
6) 1-Methylnaphthalene	5.20	142	987228	90.90531	ppb	97
9) Acenaphthylene	6.12	152	3028365	92.71793	ppb	98
10) Acenaphthene	6.33	154	884058	94.49143	ppb	81
11) Fluorene	6.92	166	977828	93.76761	ppb	99
13) Phenanthrene	8.03	178	1410719	85.63545	ppb	98
14) Anthracene	8.10	178	1405385	98.80172	ppb	98
16) Fluoranthene	9.41	202	1975643	87.24682	ppb	# 93
18) Pyrene	9.67	202	2087655	93.37447	ppb	# 79
20) Benz (a) anthracene	11.12	228	1769567	99.63525	ppb	98
21) Chrysene	11.17	228	1761570	89.41920	ppb	# 95
22) Indeno (1,2,3-cd) pyrene	15.08	276	1994441	114.93788	ppb	# 97
24) Benzo (b) fluoranthene	12.95	252	1775337	104.25365	ppb	98
25) Benzo (k) fluoranthene	13.01	252	1833100	94.85304	ppb	98
26) Benzo (a) pyrene	13.49	252	1692412	107.93077	ppb	96
27) Dibenz (a,h) anthracene	15.12	278	1669599	108.02446	ppb	94
28) Benzo (g,h,i) perylene	15.46	276	1722719	101.50847	ppb	96

(#) = qualifier out of range (m) = manual integration
 1028L011.D L1028.M Wed Oct 30 10:47:30 2019

Quantitation Report

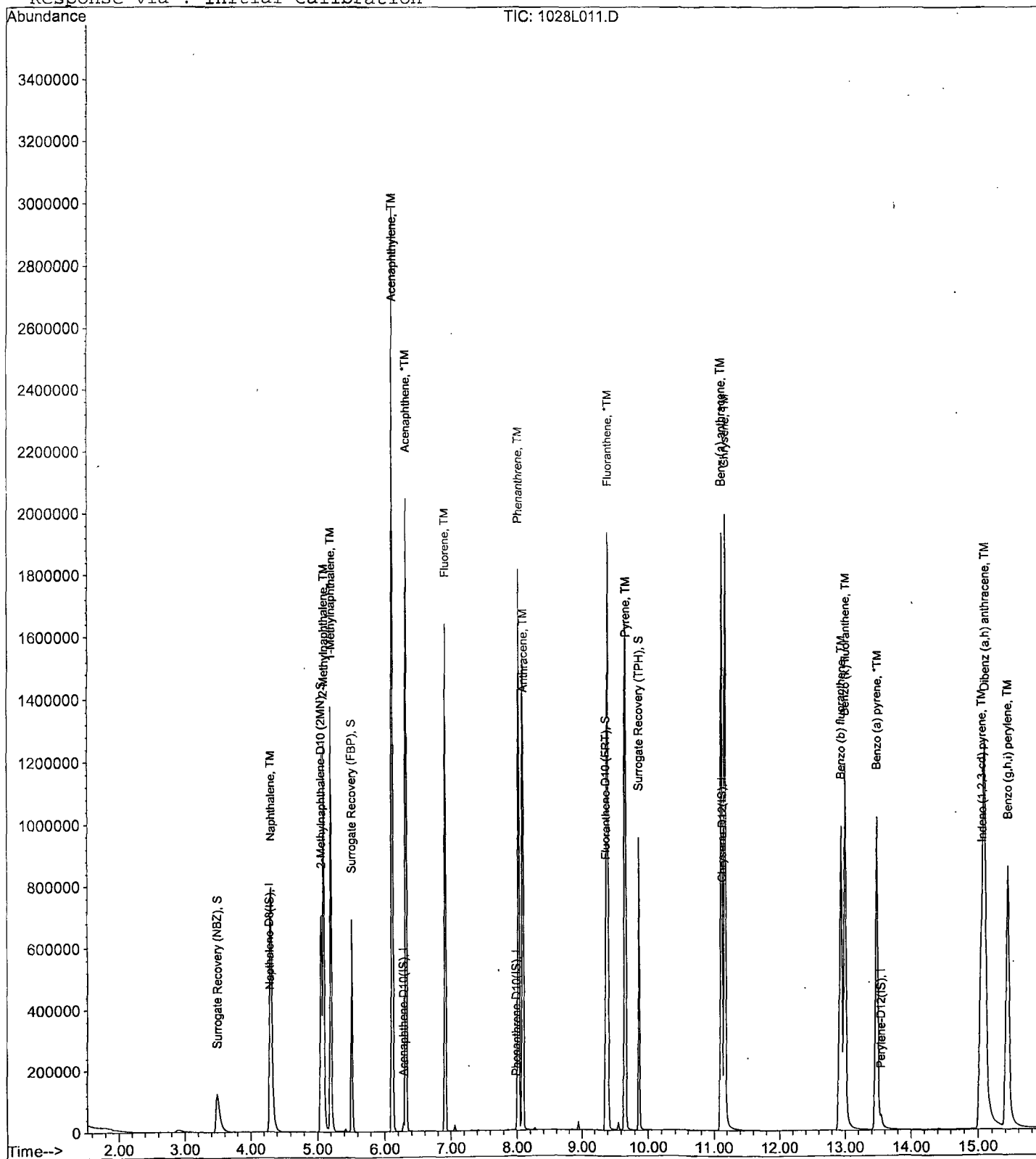
Data File : M:\LINUS\DATA\L191028\1028L011.D
Acq On : 28 Oct 19 15:04
Sample : 100 SIM 10/28/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:39 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/28/19
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L012.D

		Compound	MEAN	CCRF	%D	%Drift
1	TM	Naphthalene	1.240	1.222	1.4	TM
2	TM	2-Methylnaphthalene	0.7406	0.7386	0.26	TM
3	TM	1-Methylnaphthalene	0.7566	0.7450	1.5	TM
4	TM	Acenaphthylene	5.317	5.695	7.1	TM
5	*TM	Acenaphthene	1.523	1.515	0.52	*TM
6	TM	Fluorene	1.698	1.746	2.9	TM
7	TM	Phenanthrene	1.477	1.538	4.1	TM
8	TM	Anthracene	1.275	1.367	7.2	TM
9	*TM	Fluoranthene	2.013	2.171	7.8	*TM
10	TM	Pyrene	1.789	1.816	1.5	TM
11	TM	Benz (a) anthracene	1.420	1.330	6.4	TM
12	TM	Chrysene	1.573	1.539	2.2	TM
13	TM	Indeno (1,2,3-cd) pyrene	1.387	1.255	9.5	TM
14	TM	Benzo (b) fluoranthene	1.268	1.334	5.2	TM
15	TM	Benzo (k) fluoranthene	1.439	1.585	10	TM
16	*TM	Benzo (a) pyrene	1.167	1.265	8.4	*TM
17	TM	Dibenz (a,h) anthracene	1.151	1.126	2.2	TM
18	TM	Benzo (g,h,i) perylene	1.264	1.235	2.3	TM
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
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32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

4.5

Data File : M:\LINUS\DATA\L191028\1028L012.D
 Acq On : 28 Oct 19 15:55
 Sample : SS SIM 10/28/19
 Misc :

Vial: 12
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:44 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.29	136	37041	2.50000	ppb	0.01
7) Acenaphthene-D10(IS)	6.28	164	15072	2.50000	ppb	0.01
12) Phenanthrene-D10(IS)	7.99	188	26057	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.11	240	32042	2.50000	ppb	0.00
23) Perylene-D12(IS)	13.53	264	29024	2.50000	ppb	0.00

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
4) 2-Methylnaphthalene-D10 (2)	0.00	152	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
8) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
15) Fluoranthene-D10 (FRT)	0.00	212	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	
19) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	5.000		Recovery	=	0.000%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	90550	4.92808	ppb	100
5) 2-Methylnaphthalene	5.08	142	54717	4.98678	ppb	97
6) 1-Methylnaphthalene	5.19	142	55190	4.92351	ppb	97
9) Acenaphthylene	6.11	152	171659	5.35498	ppb	99
10) Acenaphthene	6.31	154	45673	4.97401	ppb	89
11) Fluorene	6.90	166	52636	5.14291	ppb	95
13) Phenanthrene	8.01	178	80127	5.20577	ppb	98
14) Anthracene	8.08	178	71254	5.36132	ppb	99
16) Fluoranthene	9.39	202	113116	5.39024	ppb	# 93
18) Pyrene	9.65	202	116362	5.07511	ppb	# 86
20) Benz (a) anthracene	11.10	228	85204	4.68122	ppb	98
21) Chrysene	11.14	228	98596	4.89203	ppb	# 96
22) Indeno (1,2,3-cd) pyrene	15.01	276	80441	4.52347	ppb	88
24) Benzo (b) fluoranthene	12.90	252	77412	5.25853	ppb	99
25) Benzo (k) fluoranthene	12.96	252	92007	5.50721	ppb	99
26) Benzo (a) pyrene	13.45	252	73458	5.42211	ppb	97
27) Dibenz (a,h) anthracene	15.05	278	65335	4.88992	ppb	# 94
28) Benzo (g,h,i) perylene	15.38	276	71685	4.88610	ppb	# 92

(#) = qualifier out of range (m) = manual integration
 1028L012.D L1028.M Wed Oct 30 10:46:00 2019

Quantitation Report

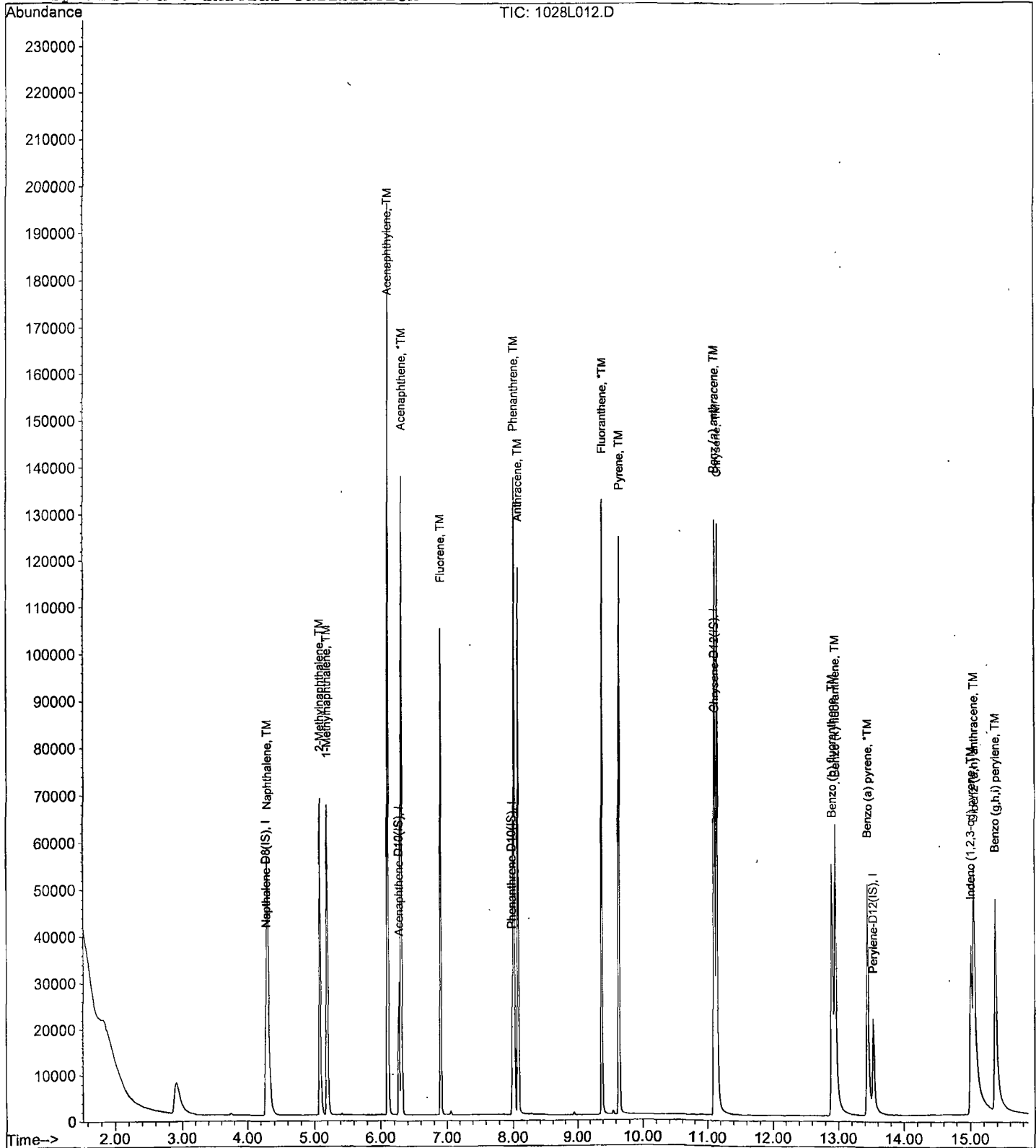
Data File : M:\LINUS\DATA\L191028\1028L012.D
Acq On : 28 Oct 19 15:55
Sample : SS SIM 10/28/19
Misc :

Vial: 12
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:44 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 9:53
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L162.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Naphthalene-D8(IS)	ISTD			I
2	S Surrogate Recovery (NBZ)	0.4764	0.4561	4.3	S
3	TM Naphthalene	1.240	1.220	1.6	TM
4	S 2-Methylnaphthalene-D10 (2MN)	1.249	1.181	5.4	S
5	TM 2-Methylnaphthalene	0.7406	0.7348	0.78	TM
6	TM 1-Methylnaphthalene	0.7566	0.7311	3.4	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBP)	1.894	1.847	2.5	S
9	TM Acenaphthylene	5.317	5.609	5.5	TM
10	*TM Acenaphthene	1.523	1.481	2.8	*TM
11	TM Fluorene	1.698	1.733	2.1	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.477	1.468	0.60	TM
14	TM Anthracene	1.275	1.347	5.6	TM
15	S Fluoranthene-D10 (FRT)	1.819	1.930	6.1	S
16	*TM Fluoranthene	2.013	2.142	6.4	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.789	1.778	0.60	TM
19	S Surrogate Recovery (TPH)	0.9613	0.9666	0.55	S
20	TM Benz (a) anthracene	1.420	1.458	2.7	TM
21	TM Chrysene	1.573	1.504	4.4	TM
22	TM Indeno (1,2,3-cd) pyrene	1.387	1.559	12	TM
23	I Perylene-D12(IS)	ISTD			I
24	TM Benzo (b) fluoranthene	1.268	1.360	7.3	TM
25	TM Benzo (k) fluoranthene	1.439	1.391	3.3	TM
26	*TM Benzo (a) pyrene	1.167	1.258	7.8	*TM
27	TM Dibenz (a,h) anthracene	1.151	1.217	5.8	TM
28	TM Benzo (g,h,i) perylene	1.264	1.250	1.0	TM
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

4.0

Data File : M:\LINUS\DATA\L191028\1028L162.D
 Acq On : 5 Nov 19 9:53
 Sample : 5 SIM 10/28/19 (1)
 Misc :

Vial: 62
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 5 10:20 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.27	136	46666	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18912	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	32761	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	40179	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	42489	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.49	82	21283	2.39346	ppb	0.00
Spiked Amount 5.000			Recovery =	47.860%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	55126	2.36477	ppb	0.00
Spiked Amount 5.000			Recovery =	47.300%		
8) Surrogate Recovery (FBP)	5.51	172	34932	2.43749	ppb	-0.01
Spiked Amount 5.000			Recovery =	48.740%		
15) Fluoranthene-D10 (FRT)	9.36	212	63220	2.65183	ppb	-0.01
Spiked Amount 5.000			Recovery =	53.040%		
19) Surrogate Recovery (TPH)	9.86	244	38836	2.51380	ppb	0.00
Spiked Amount 5.000			Recovery =	50.280%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	113903	4.92047	ppb	99
5) 2-Methylnaphthalene	5.08	142	68577	4.96088	ppb	99
6) 1-Methylnaphthalene	5.19	142	68234	4.83167	ppb	99
9) Acenaphthylene	6.10	152	212165	5.27471	ppb	98
10) Acenaphthene	6.30	154	56000	4.86036	ppb	94
11) Fluorene	6.90	166	65560	5.10503	ppb	97
13) Phenanthrene	8.01	178	96183	4.97017	ppb	99
14) Anthracene	8.08	178	88265	5.28224	ppb	99
16) Fluoranthene	9.38	202	140331	5.31870	ppb	# 83
18) Pyrene	9.64	202	142891	4.97004	ppb	93
20) Benz (a) anthracene	11.09	228	117172	5.13385	ppb	99
21) Chrysene	11.14	228	120851	4.78190	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.01	276	125248	5.61676	ppb	# 79
24) Benzo (b) fluoranthene	12.90	252	115600	5.36408	ppb	95
25) Benzo (k) fluoranthene	12.95	252	118227	4.83402	ppb	96
26) Benzo (a) pyrene	13.43	252	106867	5.38832	ppb	100
27) Dibenz (a,h) anthracene	15.05	278	103457	5.28928	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	106265	4.94771	ppb	99

(#) = qualifier out of range (m) = manual integration
 1028L162.D L1028.M Tue Nov 05 10:20:18 2019

Quantitation Report

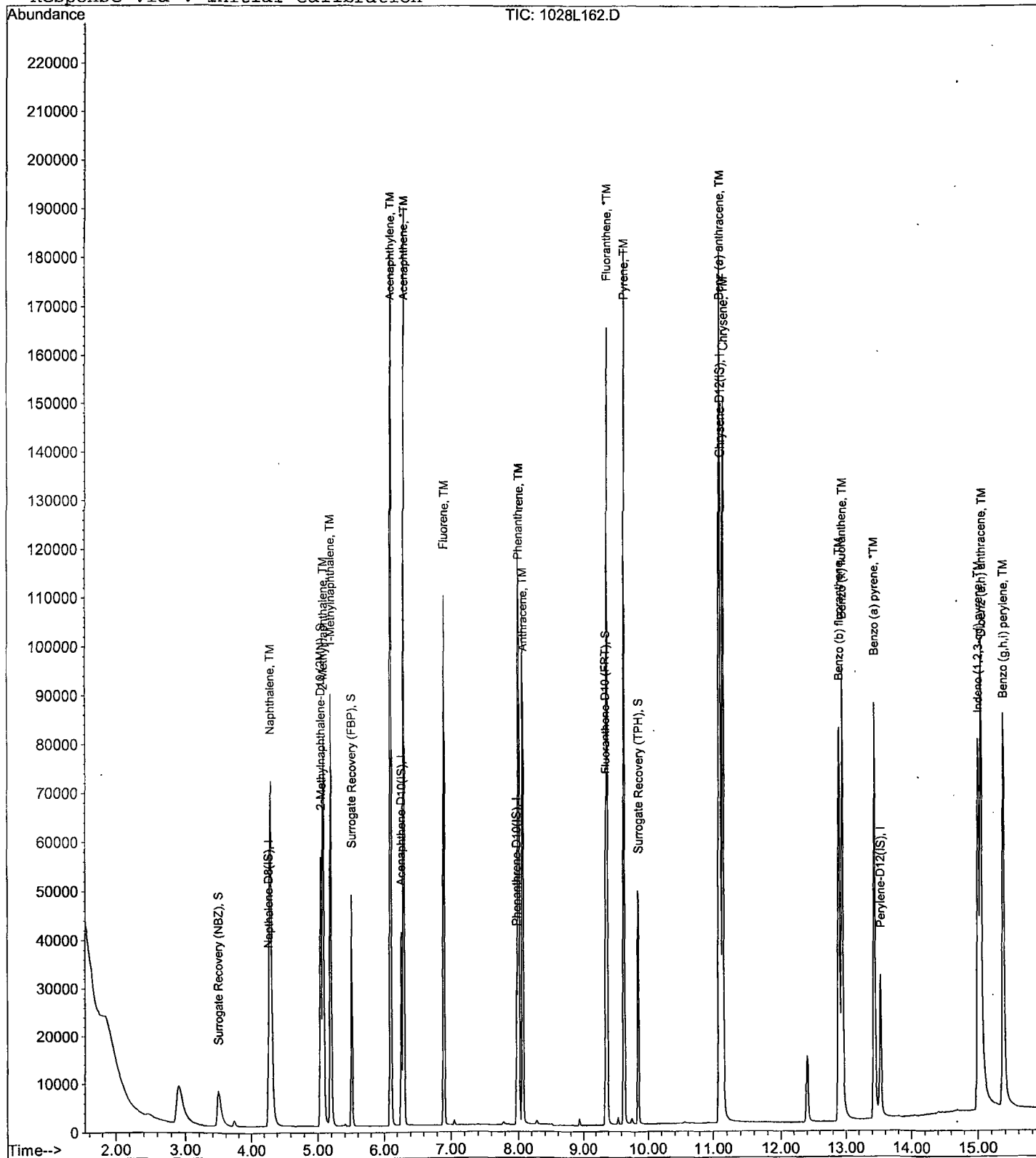
Data File : M:\LINUS\DATA\L191028\1028L162.D
Acq On : 5 Nov 19 9:53
Sample : 5 SIM 10/28/19 (1)
Misc :

Vial: 62
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 5 10:20 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 16:00
Instrument: Linus
Initial Cal. Date: 10/28/19
Data File: 1028L176.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Napthalene-D8(IS)	ISTD			I
2	S Surrogate Recovery (NBZ)	0.4764	0.4651	2.4	S
3	TM Napthalene	1.240	1.222	1.5	TM
4	S 2-Methylnapthalene-D10 (2MN)	1.249	1.169	6.4	S
5	TM 2-Methylnapthalene	0.7406	0.7374	0.42	TM
6	TM 1-Methylnapthalene	0.7566	0.7301	3.5	TM
7	I Acenaphthene-D10(IS)	ISTD			I
8	S Surrogate Recovery (FBP)	1.894	1.838	3.0	S
9	TM Acenaphthylene	5.317	5.687	7.0	TM
10	*TM Acenaphthene	1.523	1.493	2.0	*TM
11	TM Fluorene	1.698	1.756	3.4	TM
12	I Phenanthrene-D10(IS)	ISTD			I
13	TM Phenanthrene	1.477	1.457	1.3	TM
14	TM Anthracene	1.275	1.338	5.0	TM
15	S Fluoranthene-D10 (FRT)	1.819	1.898	4.3	S
16	*TM Fluoranthene	2.013	2.139	6.3	*TM
17	I Chrysene-D12(IS)	ISTD			I
18	TM Pyrene	1.789	1.775	0.79	TM
19	S Surrogate Recovery (TPH)	0.9613	0.9644	0.33	S
20	TM Benz (a) anthracene	1.420	1.450	2.1	TM
21	TM Chrysene	1.573	1.468	6.6	TM
22	TM Indeno (1,2,3-cd) pyrene	1.387	1.501	8.2	TM
23	I Perylene-D12(IS)	ISTD			I
24	TM Benzo (b) fluoranthene	1.268	1.308	3.1	TM
25	TM Benzo (k) fluoranthene	1.439	1.468	2.0	TM
26	*TM Benzo (a) pyrene	1.167	1.247	6.9	*TM
27	TM Dibenz (a,h) anthracene	1.151	1.217	5.8	TM
28	TM Benzo (g,h,i) perylene	1.264	1.243	1.7	TM
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

3.7

Data File : M:\LINUS\DATA\L191028\1028L176.D
 Acq On : 5 Nov 19 16:00
 Sample : 5 SIM 10/28/19 (1)
 Misc :

Vial: 76
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 5 16:17 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	4.29	136	42309	2.50000	ppb	0.01
7) Acenaphthene-D10 (IS)	6.27	164	17180	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30616	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	37162	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	38169	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.50	82	19677	2.44073	ppb	0.01
Spiked Amount	5.000			Recovery =	48.820%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	49474	2.34087	ppb	0.00
Spiked Amount	5.000			Recovery =	46.820%	
8) Surrogate Recovery (FBP)	5.52	172	31570	2.42498	ppb	0.00
Spiked Amount	5.000			Recovery =	48.500%	
15) Fluoranthene-D10 (FRT)	9.37	212	58111	2.60830	ppb	0.00
Spiked Amount	5.000			Recovery =	52.160%	
19) Surrogate Recovery (TPH)	9.86	244	35839	2.50815	ppb	0.00
Spiked Amount	5.000			Recovery =	50.160%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	4.30	128	103401	4.92679	ppb	100
5) 2-Methylnaphthalene	5.08	142	62401	4.97897	ppb	99
6) 1-Methylnaphthalene	5.19	142	61779	4.82508	ppb	97
9) Acenaphthylene	6.11	152	195402	5.34771	ppb	100
10) Acenaphthene	6.30	154	51297	4.90102	ppb	100
11) Fluorene	6.90	166	60340	5.17224	ppb	99
13) Phenanthrene	8.01	178	89217	4.93321	ppb	100
14) Anthracene	8.08	178	81944	5.24753	ppb	100
16) Fluoranthene	9.39	202	130993	5.31262	ppb	100
18) Pyrene	9.64	202	131911	4.96062	ppb	100
20) Benz (a) anthracene	11.09	228	107792	5.10629	ppb	99
21) Chrysene	11.14	228	109108	4.66775	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.01	276	111586	5.41034	ppb	83
24) Benzo (b) fluoranthene	12.90	252	99844	5.15733	ppb	96
25) Benzo (k) fluoranthene	12.96	252	112056	5.10026	ppb	98
26) Benzo (a) pyrene	13.45	252	95195	5.34306	ppb	# 94
27) Dibenz (a,h) anthracene	15.05	278	92931	5.28887	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	94852	4.91617	ppb	94

(#) = qualifier out of range (m) = manual integration
 1028L176.D L1028.M Tue Nov 05 16:17:12 2019

Quantitation Report

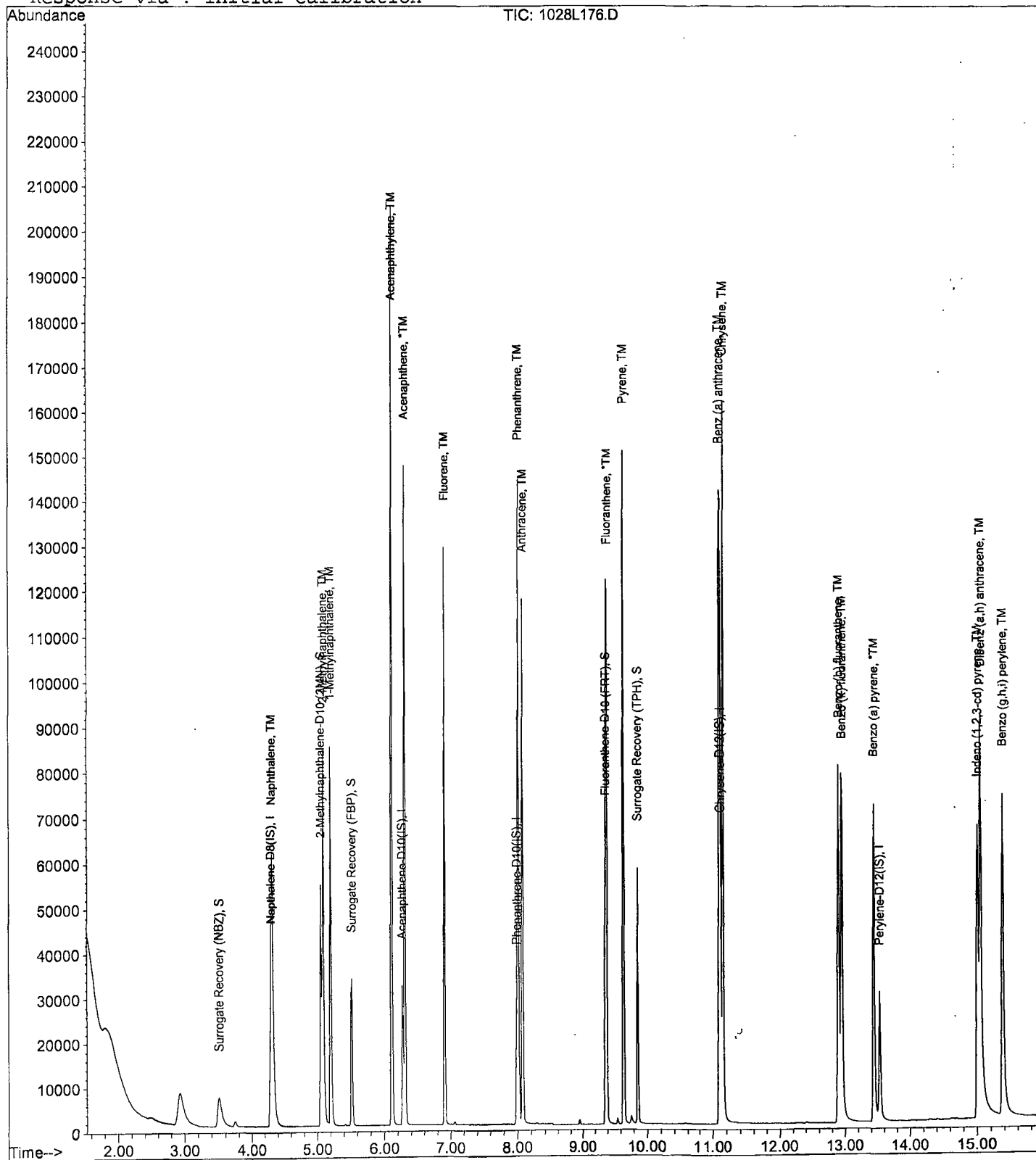
Data File : M:\LINUS\DATA\L191028\1028L176.D
 Acq On : 5 Nov 19 16:00
 Sample : 5 SIM 10/28/19 (1)
 Misc :

Vial: 76
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 5 16:17 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L191028\1028L172.D Vial: 72
 Acq On : 5 Nov 19 14:39 Operator: MA
 Sample : BA01829W11 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 15:00 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	4.27	136	42437	2.50000	ppb	0.00
7) Acenaphthene-D10(IS)	6.27	164	17533	2.50000	ppb	0.00
12) Phenanthrene-D10(IS)	7.99	188	31161	2.50000	ppb	0.00
17) Chrysene-D12(IS)	11.11	240	38122	2.50000	ppb	0.00
23) Perylene-D12(IS)	13.53	264	40150	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	643689	99.50273	ppb	0.01
Spiked Amount	6.250		Recovery	= 1592.048%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	98612	5.81471	ppb	0.00
Spiked Amount	6.250		Recovery	= 93.040%		
8) Surrogate Recovery (FBP)	5.52	172	852208	80.17810	ppb	0.00
Spiked Amount	6.250		Recovery	= 1282.848%		
15) Fluoranthene-D10 (FRT)	9.37	212	125060	6.89390	ppb	0.00
Spiked Amount	6.250		Recovery	= 110.304%		
19) Surrogate Recovery (TPH)	9.87	244	1017940	86.80656	ppb	0.01
Spiked Amount	6.250		Recovery	= 1388.912%		

Target Compounds Qvalue

Quantitation Report

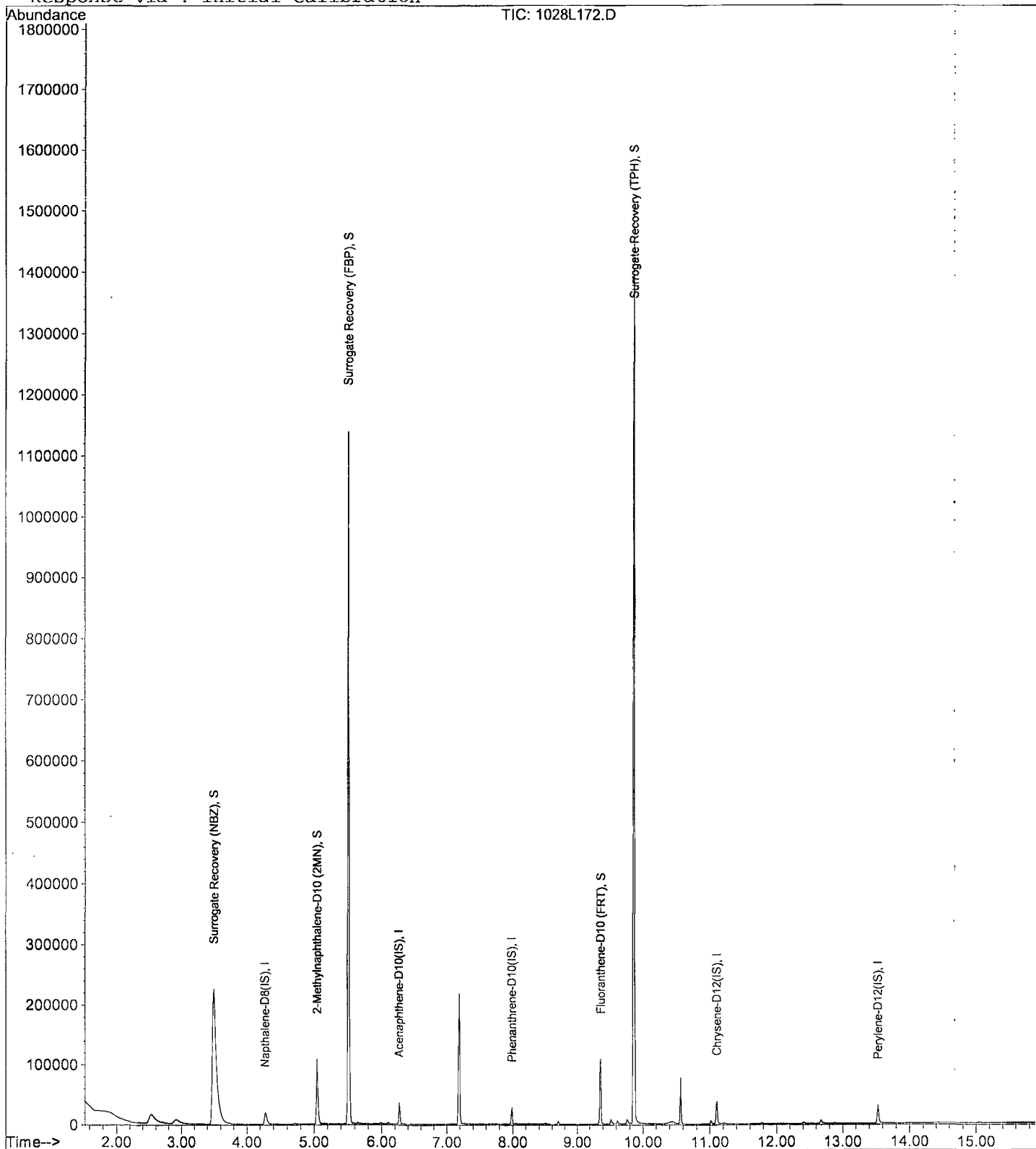
Data File : M:\LINUS\DATA\L191028\1028L172.D
Acq On : 5 Nov 19 14:39
Sample : BA01829W11 1/800
Misc :

Vial: 72
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 15:00 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L173.D Vial: 73
 Acq On : 5 Nov 19 15:01 Operator: MA
 Sample : BA01831W17 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 15:20 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	42358	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17196	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30344	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	37919	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	39306	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	3.50	82	630251	97.60717	ppb	0.01
Spiked Amount	6.250		Recovery	= 1561.712%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	97549	5.76275	ppb	0.00
Spiked Amount	6.250		Recovery	= 92.208%		
8) Surrogate Recovery (FBP)	5.52	172	845457	81.10179	ppb	0.00
Spiked Amount	6.250		Recovery	= 1297.632%		
15) Fluoranthene-D10 (FRT)	9.37	212	122787	6.95085	ppb	0.00
Spiked Amount	6.250		Recovery	= 111.216%		
19) Surrogate Recovery (TPH)	9.87	244	997681	85.53441	ppb	0.01
Spiked Amount	6.250		Recovery	= 1368.544%		

Target Compounds Qvalue

Quantitation Report

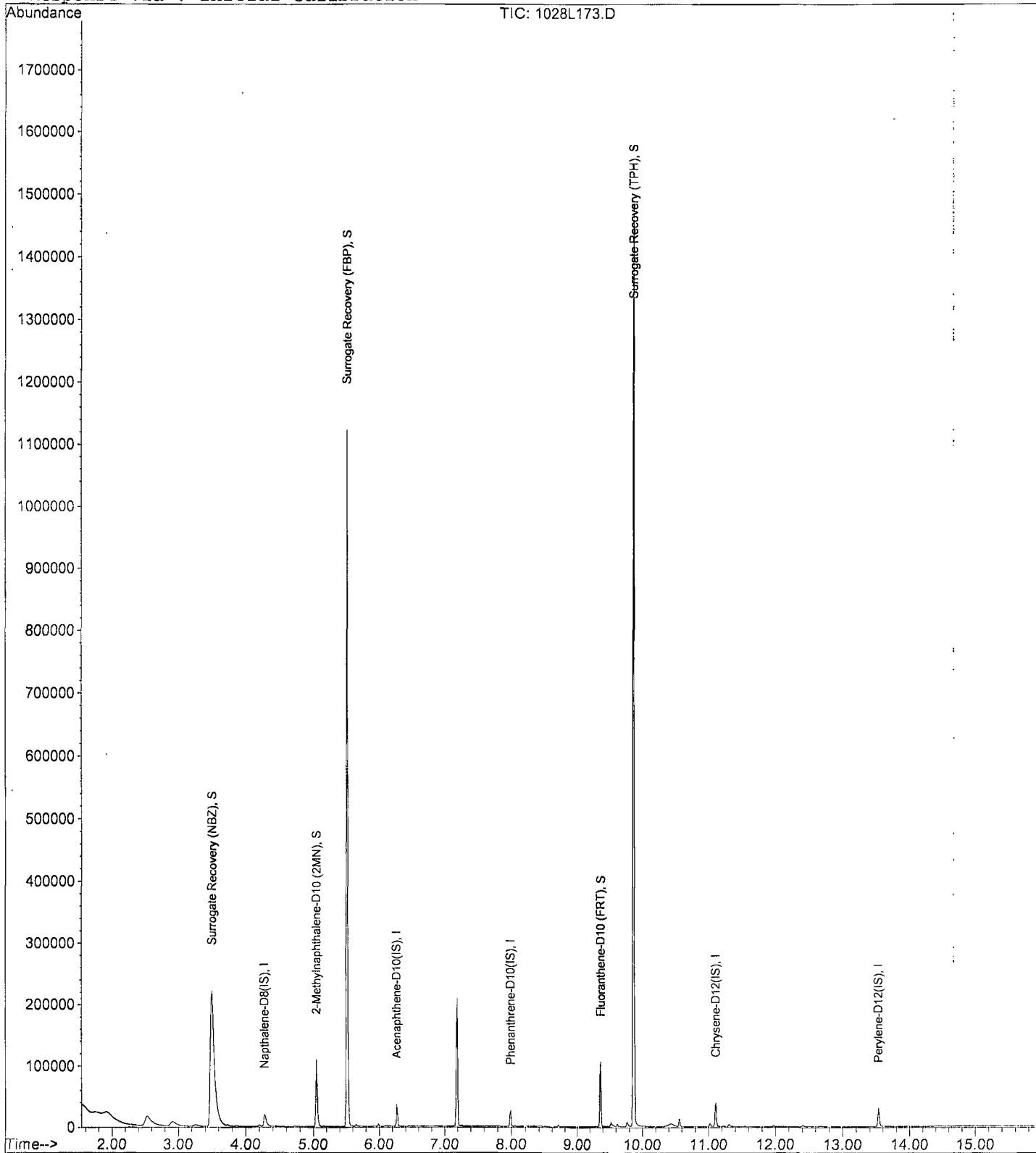
Data File : M:\LINUS\DATA\L191028\1028L173.D
Acq On : 5 Nov 19 15:01
Sample : BA01831W17 1/800
Misc :

Vial: 73
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 15:20 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L174.D Vial: 74
 Acq On : 5 Nov 19 15:23 Operator: MA
 Sample : BA01833W14 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 15:41 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	42783	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17300	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	30992	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	38146	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	38463	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	621847	95.34895	ppb	0.01
Spiked Amount	6.250		Recovery	= 1525.584%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96493	5.64374	ppb	0.00
Spiked Amount	6.250		Recovery	= 90.304%		
8) Surrogate Recovery (FBP)	5.52	172	838731	79.97292	ppb	0.00
Spiked Amount	6.250		Recovery	= 1279.568%		
15) Fluoranthene-D10 (FRT)	9.37	212	119943	6.64788	ppb	0.00
Spiked Amount	6.250		Recovery	= 106.368%		
19) Surrogate Recovery (TPH)	9.87	244	970714	82.72720	ppb	0.01
Spiked Amount	6.250		Recovery	= 1323.632%		

Target Compounds Qvalue

Quantitation Report

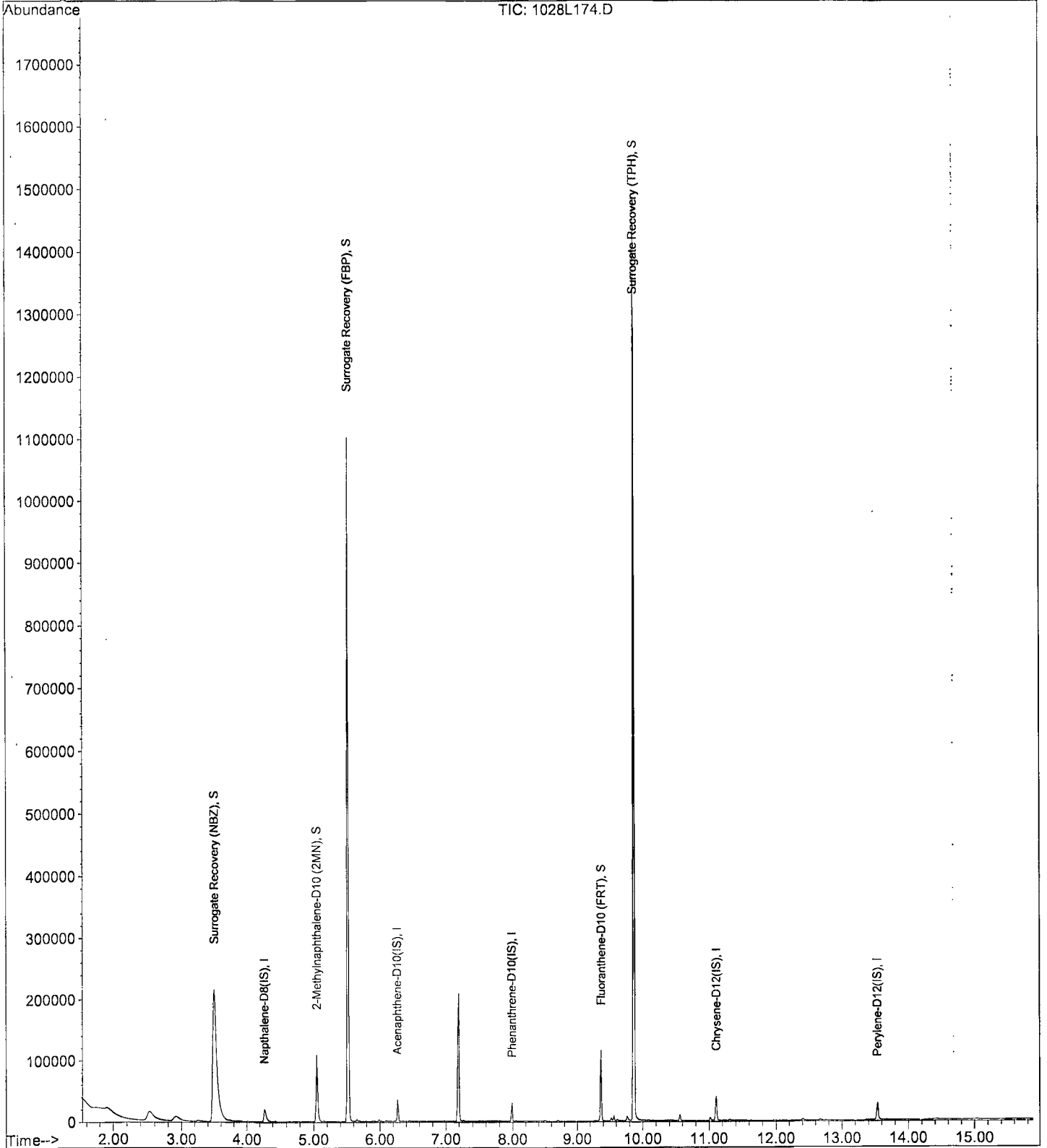
Data File : M:\LINUS\DATA\L191028\1028L174.D
Acq On : 5 Nov 19 15:23
Sample : BA01833W14 1/800
Misc :

Vial: 74
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 15:41 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L163.D Vial: 63
 Acq On : 5 Nov 19 10:31 Operator: MA
 Sample : 191029A BLK 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 11:11 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Napthalene-D8 (IS)	4.27	136	44857	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18050	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	31808	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.11	240	38127	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	40362	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.49	82	629324	92.03387	ppb	0.00
Spiked Amount	6.250		Recovery	= 1472.544%		
4) 2-Methylnaphthalene-D10 (2)	5.05	152	96691	5.39385	ppb	0.00
Spiked Amount	6.250		Recovery	= 86.304%		
8) Surrogate Recovery (FBP)	5.52	172	833016	76.12766	ppb	0.00
Spiked Amount	6.250		Recovery	= 1218.048%		
15) Fluoranthene-D10 (FRT)	9.36	212	119700	6.46422	ppb	-0.01
Spiked Amount	6.250		Recovery	= 103.424%		
19) Surrogate Recovery (TPH)	9.87	244	967601	82.50299	ppb	0.01
Spiked Amount	6.250		Recovery	= 1320.048%		

Target Compounds Qvalue

Quantitation Report

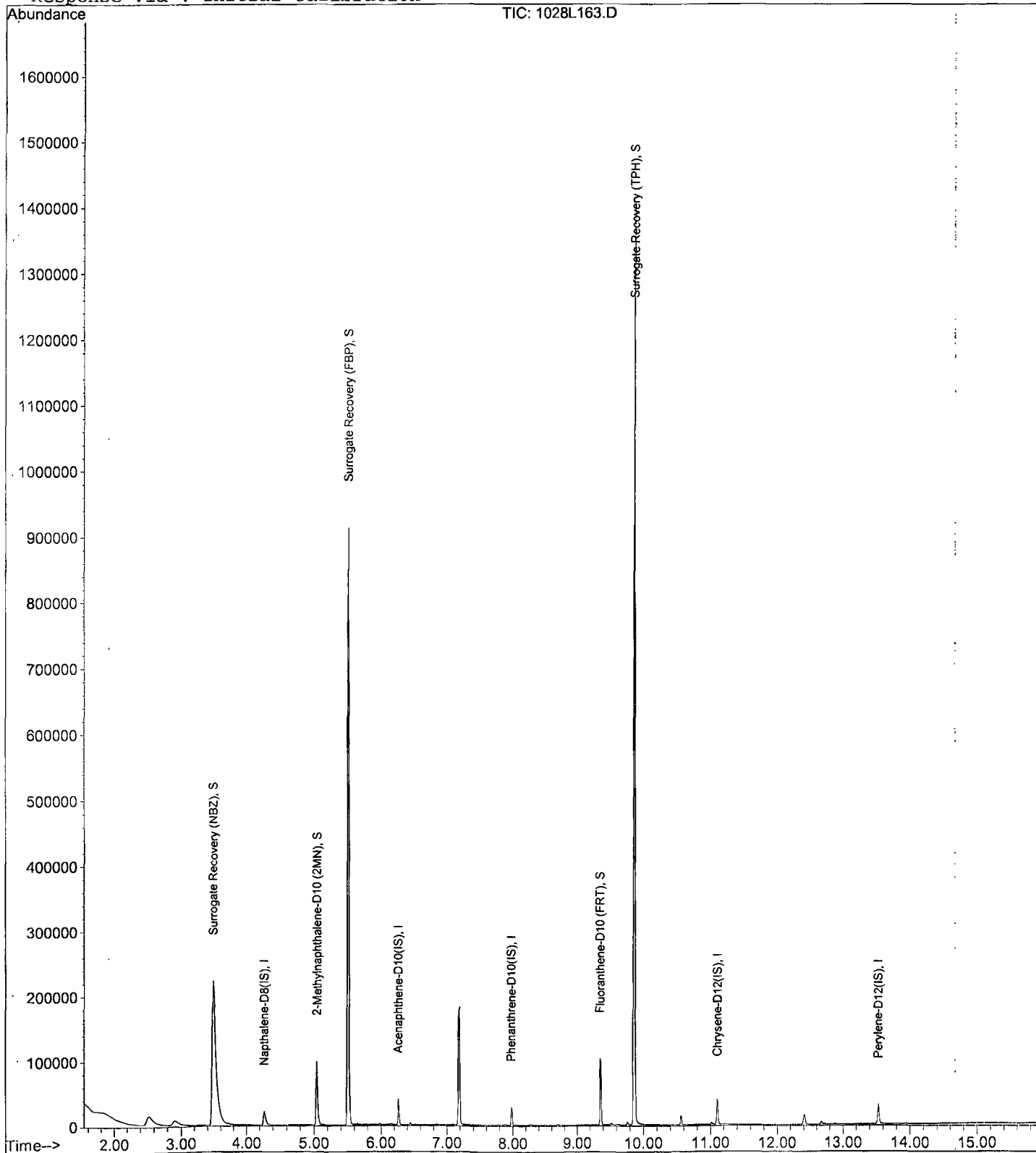
Data File : M:\LINUS\DATA\L191028\1028L163.D
Acq On : 5 Nov 19 10:31
Sample : 191029A BLK 1/800
Misc :

Vial: 63
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 11:11 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L164.D Vial: 64
 Acq On : 5 Nov 19 10:53 Operator: MA
 Sample : 191029A LCS-2 1/800 Inst : Linus
 Misc : Multiplr: 1.25

Quant Time: Nov 5 11:12 2019 Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

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

1) Naphthalene-D8 (IS)	4.27	136	43683	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	17918	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.98	188	31966	2.50000	ppb	-0.01
17) Chrysene-D12 (IS)	11.10	240	38171	2.50000	ppb	-0.01
23) Perylene-D12 (IS)	13.53	264	40236	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.47	82	181	0.02718	ppb	-0.02
Spiked Amount	6.250		Recovery	=	0.432%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	95466	5.46863	ppb	0.00
Spiked Amount	6.250		Recovery	=	87.504%	
8) Surrogate Recovery (FBP)	5.51	172	46	0.00423	ppb	-0.01
Spiked Amount	6.250		Recovery	=	0.064%	
15) Fluoranthene-D10 (FRT)	9.36	212	116900	6.28180	ppb	-0.01
Spiked Amount	6.250		Recovery	=	100.512%	
19) Surrogate Recovery (TPH)	9.86	244	905	0.07708	ppb	0.00
Spiked Amount	6.250		Recovery	=	1.232%	
Target Compounds						Qvalue
3) Naphthalene	4.30	128	105350	6.07720	ppb	99
5) 2-Methylnaphthalene	5.08	142	62496	6.03713	ppb	99
6) 1-Methylnaphthalene	5.19	142	62608	5.92003	ppb	100
9) Acenaphthylene	6.11	152	201007	6.59316	ppb	100
10) Acenaphthene	6.30	154	53619	6.13984	ppb	95
11) Fluorene	6.90	166	63081	6.48061	ppb	98
13) Phenanthrene	8.02	178	93890	6.21543	ppb	99
14) Anthracene	8.08	178	81681	6.26223	ppb	99
16) Fluoranthene	9.38	202	136273	6.61668	ppb	# 81
18) Pyrene	9.64	202	138846	6.35424	ppb	94
20) Benz (a) anthracene	11.09	228	114435	6.59711	ppb	99
21) Chrysene	11.14	228	117047	6.09378	ppb	98
22) Indeno (1,2,3-cd) pyrene	15.00	276	120350	7.10128	ppb	95
24) Benzo (b) fluoranthene	12.90	252	113417	6.94683	ppb	# 95
25) Benzo (k) fluoranthene	12.95	252	115882	6.25431	ppb	96
26) Benzo (a) pyrene	13.43	252	98534	6.55794	ppb	99
27) Dibenz (a,h) anthracene	15.05	278	100633	6.79123	ppb	98
28) Benzo (g,h,i) perylene	15.38	276	104573	6.42696	ppb	98

(#) = qualifier out of range (m) = manual integration
 1028L164.D L1028.M Tue Nov 12 12:30:27 2019

Quantitation Report

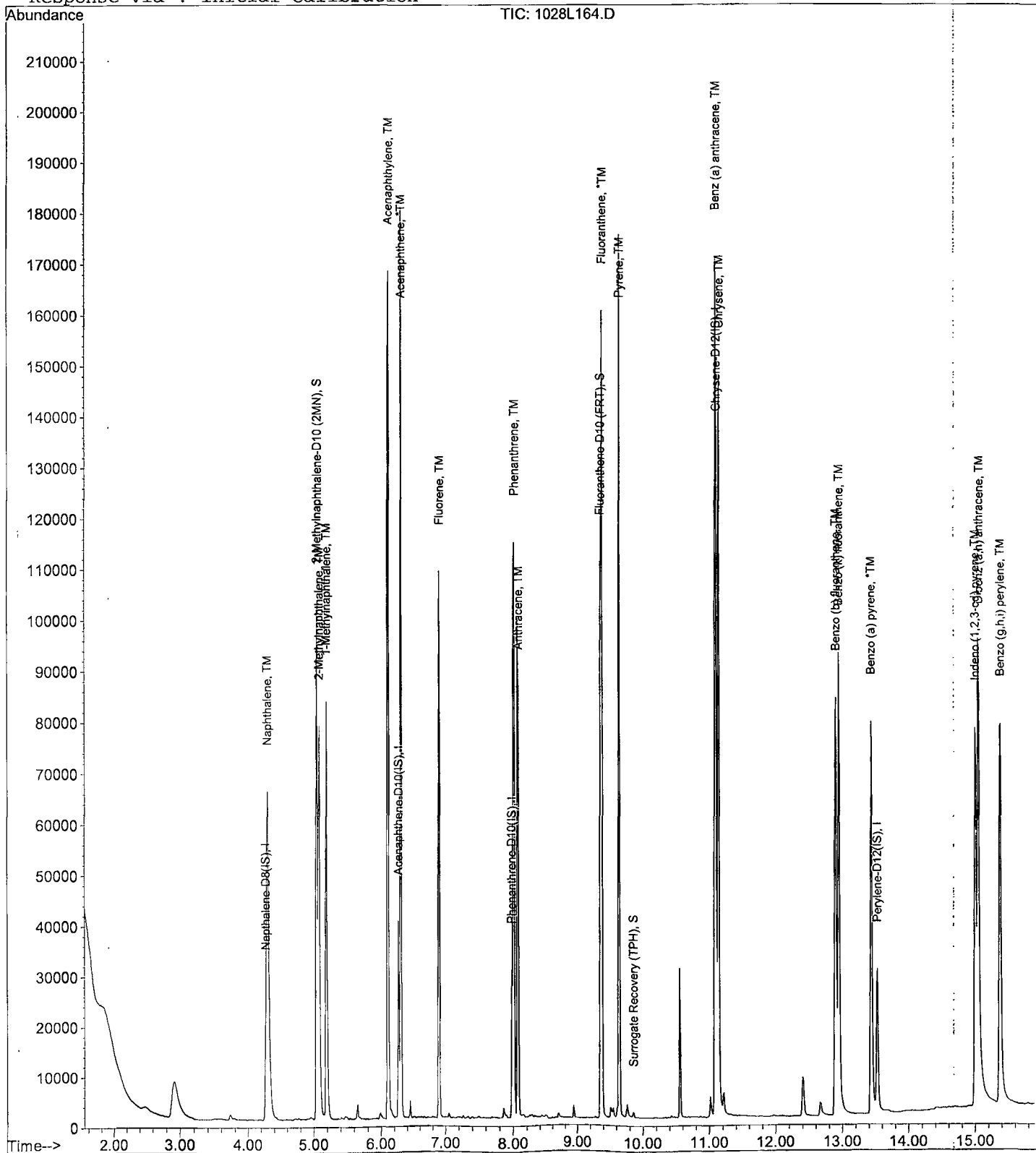
Data File : M:\LINUS\DATA\L191028\1028L164.D
 Acq On : 5 Nov 19 10:53
 Sample : 191029A LCS-2 1/800
 Misc :

Vial: 64
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 11:12 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191028\1028L165.D
 Acq On : 5 Nov 19 12:04
 Sample : 191029A LCSD-2 1/800
 Misc :

Vial: 65
 Operator: MA
 Inst : Linus
 Multiplr: 1.25

Quant Time: Nov 5 13:01 2019

Quant Results File: L1028.RES

Quant Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270
 Last Update : Wed Oct 30 10:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	4.27	136	45280	2.50000	ppb	0.00
7) Acenaphthene-D10 (IS)	6.27	164	18710	2.50000	ppb	0.00
12) Phenanthrene-D10 (IS)	7.99	188	33144	2.50000	ppb	0.00
17) Chrysene-D12 (IS)	11.11	240	39090	2.50000	ppb	0.00
23) Perylene-D12 (IS)	13.53	264	40700	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	3.50	82	46	0.00666	ppb	0.01
Spiked Amount	6.250		Recovery	=	0.112%	
4) 2-Methylnaphthalene-D10 (2)	5.05	152	99287	5.48692	ppb	0.00
Spiked Amount	6.250		Recovery	=	87.792%	
8) Surrogate Recovery (FBP)	5.51	172	49	0.00432	ppb	-0.01
Spiked Amount	6.250		Recovery	=	0.064%	
15) Fluoranthene-D10 (FRT)	9.37	212	118958	6.16520	ppb	0.00
Spiked Amount	6.250		Recovery	=	98.640%	
19) Surrogate Recovery (TPH)	9.86	244	797	0.06628	ppb	0.00
Spiked Amount	6.250		Recovery	=	1.056%	
Target Compounds						
3) Naphthalene	4.30	128	107509	5.98302	ppb	99
5) 2-Methylnaphthalene	5.08	142	64004	5.96474	ppb	99
6) 1-Methylnaphthalene	5.19	142	63874	5.82673	ppb	100
9) Acenaphthylene	6.11	152	204542	6.42511	ppb	99
10) Acenaphthene	6.30	154	54665	5.99465	ppb	94
11) Fluorene	6.91	166	65051	6.40010	ppb	99
13) Phenanthrene	8.02	178	96525	6.16276	ppb	100
14) Anthracene	8.08	178	84362	6.23790	ppb	100
16) Fluoranthene	9.39	202	136653	6.39931	ppb	99
18) Pyrene	9.64	202	141588	6.32739	ppb	100
20) Benz (a) anthracene	11.10	228	116735	6.57149	ppb	97
21) Chrysene	11.14	228	115239	5.85860	ppb	99
22) Indeno (1,2,3-cd) pyrene	15.01	276	119070	6.86058	ppb	84
24) Benzo (b) fluoranthene	12.90	252	109233	6.61429	ppb	96
25) Benzo (k) fluoranthene	12.96	252	120260	6.41660	ppb	98
26) Benzo (a) pyrene	13.45	252	97607	6.42219	ppb #	93
27) Dibenz (a,h) anthracene	15.05	278	98787	6.59065	ppb	97
28) Benzo (g,h,i) perylene	15.38	276	102074	6.20186	ppb #	91

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

Quantitation Report

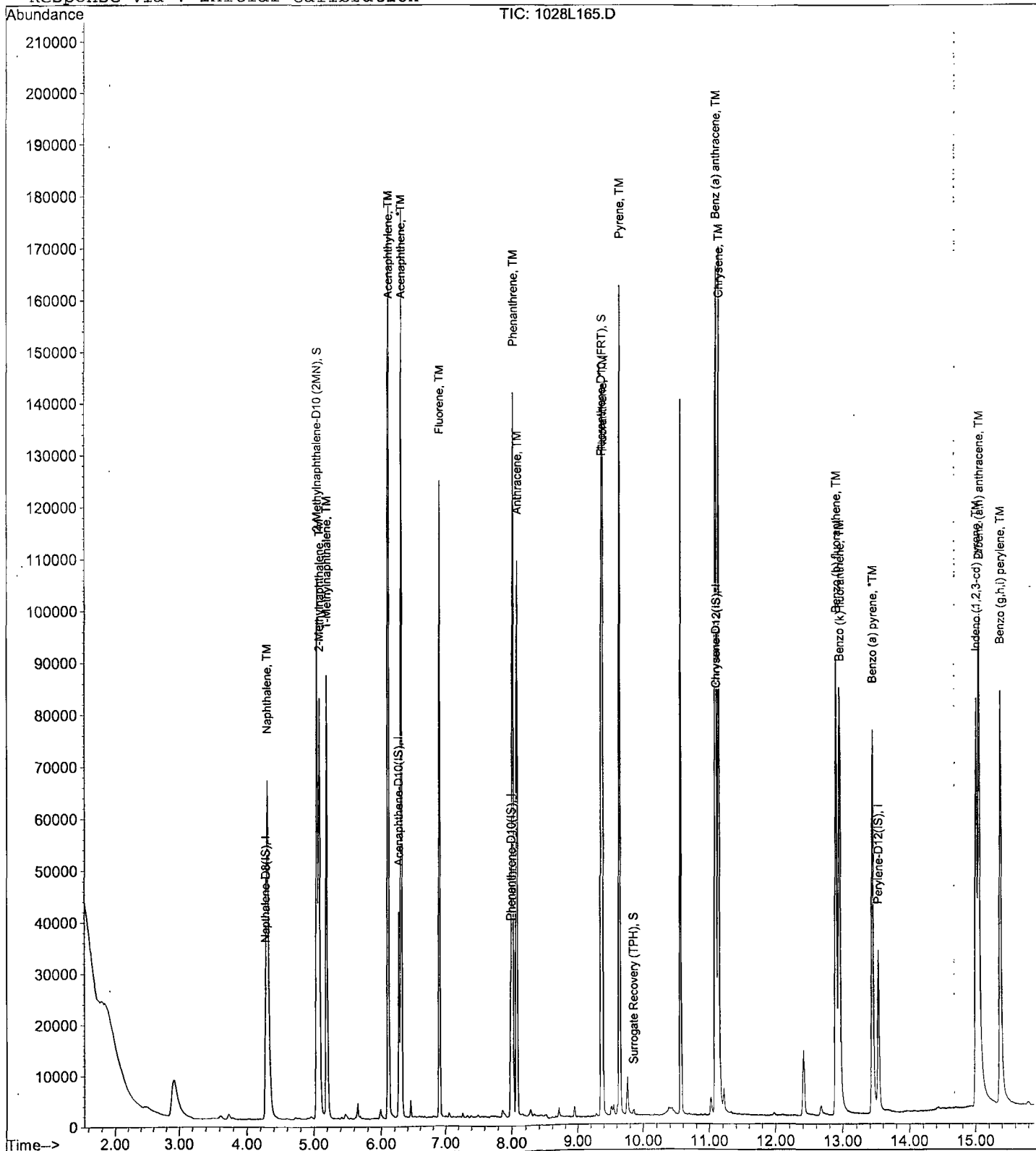
Data File : M:\LINUS\DATA\L191028\1028L165.D
Acq On : 5 Nov 19 12:04
Sample : 191029A LCSD-2 1/800
Misc :

Vial: 65
Operator: MA
Inst : Linus
Multiplr: 1.25

Quant Time: Nov 5 13:01 2019

Quant Results File: L1028.RES

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Oct 30 10:39:31 2019
Response via : Initial Calibration

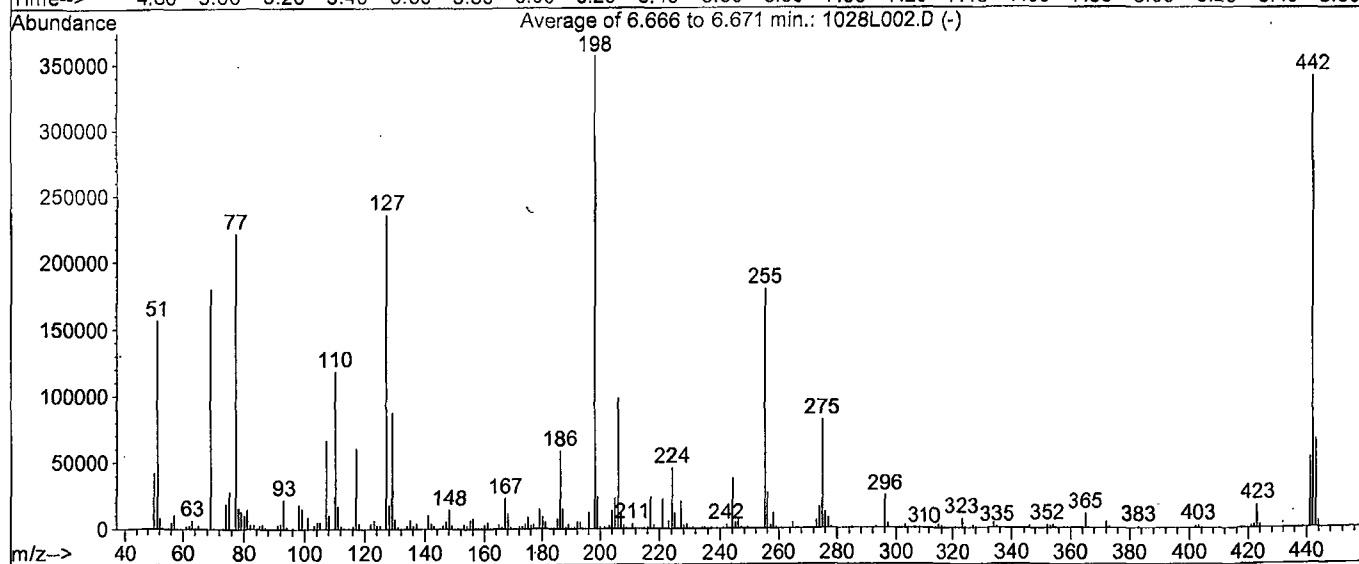
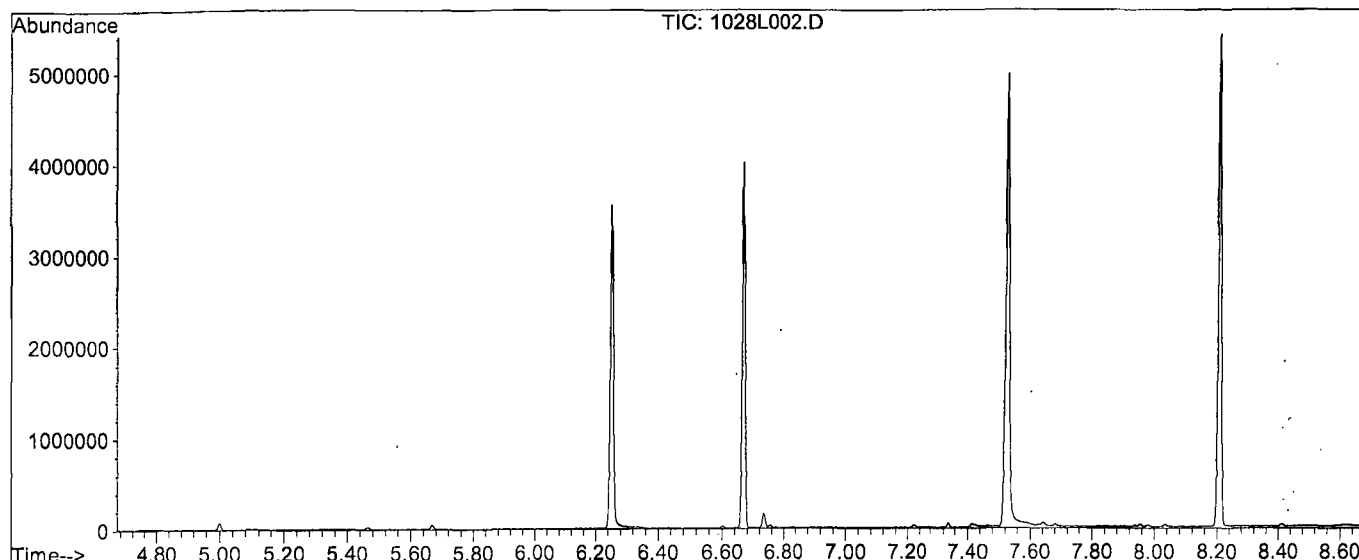


DFTPP

Data File : M:\LINUS\DATA\L191028\1028L002.D
 Acq On : 28 Oct 19 10:20
 Sample : SV Tune 07/11/19
 Misc :

Vial: 2
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1630

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.0	156621	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	628	PASS
127	198	10	80	66.3	235925	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	355968	PASS
199	198	5	9	6.8	24237	PASS
275	198	10	60	23.0	81733	PASS
365	198	1	100	3.1	10977	PASS
441	442	0.01	24	15.5	52947	PASS
442	198	50	500	95.8	340885	PASS
443	442	15	24	19.6	66771	PASS

Data File Name: 1028L002.D
Data File Path: M:\LINUS\DATA\L191028\
Operator: MA
Date Acquired: 28 Oct 2019 10:20
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 2
Instrument Name: Linus

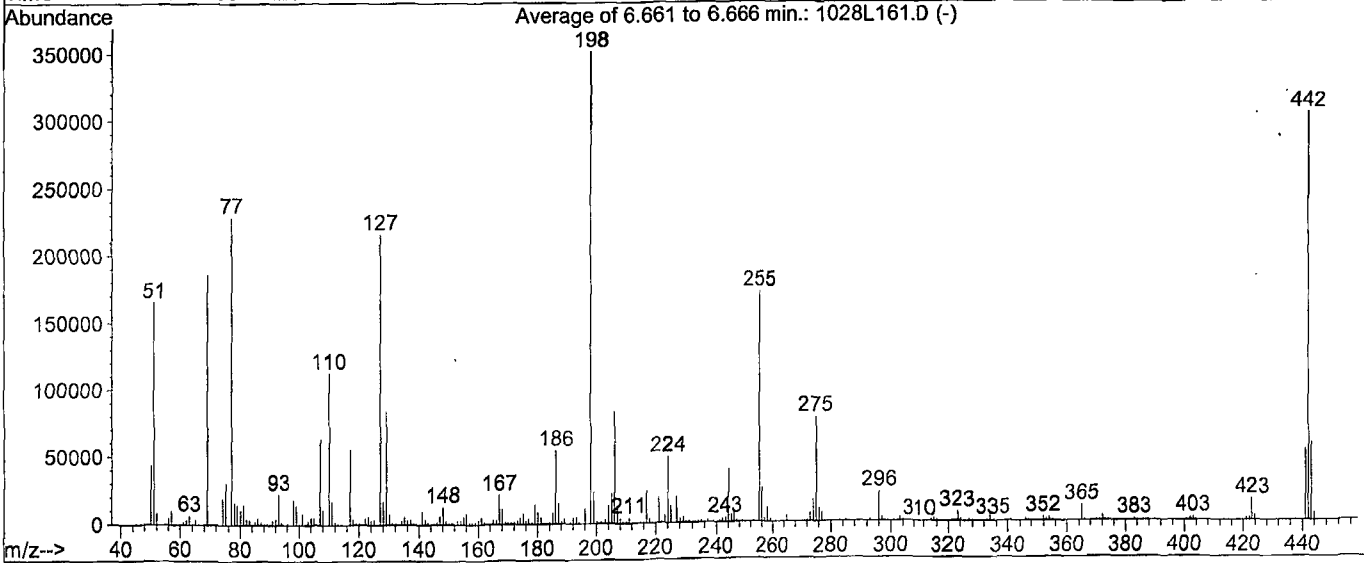
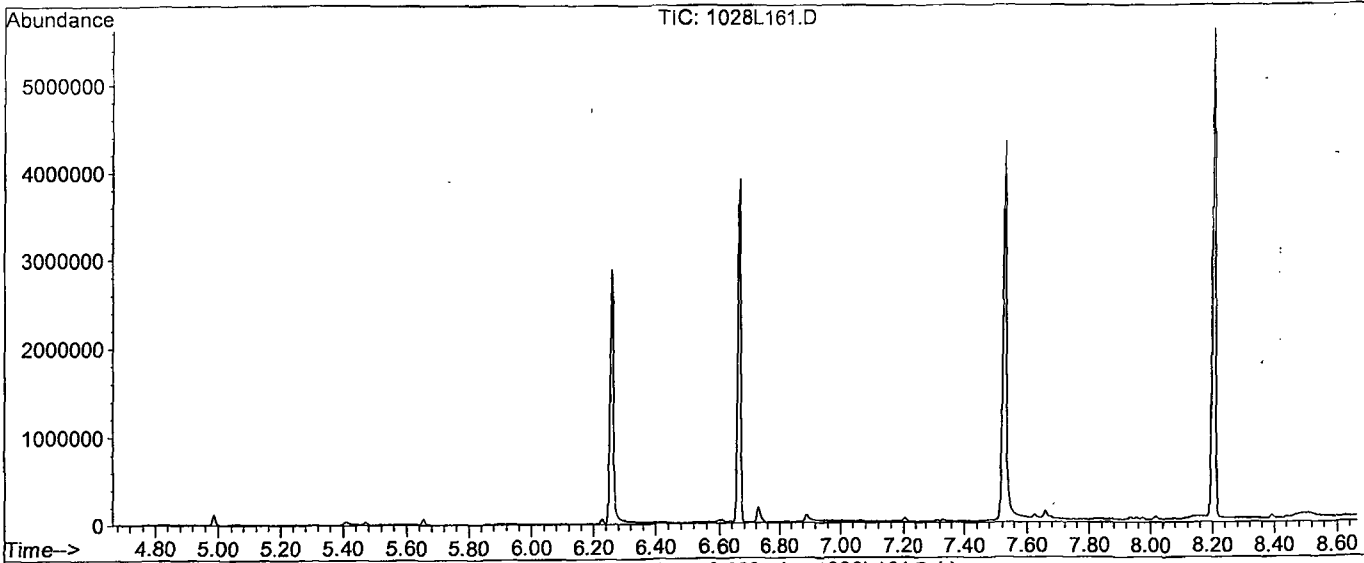
#	Name	Ret Time	Target Response
1)	DDT	8.21	37737600
2)	DDD	7.96	199800
3)	DDE	7.25	192158

Breakdown 1.03

Data File : M:\LINUS\DATA\L191028\1028L161.D
 Acq On : 5 Nov 19 9:37
 Sample : SV Tune 10/01/19
 Misc :

Vial: 61
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191028\L1028.M (RTE Integrator)
 Title : EPA 8270



AutoFind: Scans 1637, 1638, 1639; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.1	165312	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	485	PASS
127	198	10	80	61.5	216085	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	351339	PASS
199	198	5	9	6.6	23155	PASS
275	198	10	60	22.1	77653	PASS
365	198	1	100	3.2	11296	PASS
441	442	0.01	24	17.4	52677	PASS
442	198	50	500	86.3	303232	PASS
443	442	15	24	19.0	57675	PASS

Data File Name: 1028L161.D
Data File Path: M:\LINUS\DATA\L191028\
Operator: MA
Date Acquired: 5 Nov 19 9:37
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 61
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	38975200
2)	DDD	7.98	197956
3)	DDE	8.15	53943

Breakdown 0.64

Name of Final Standard Semivolatile (SV) Tuning Solution
 Prep Date 10/01/19
 Exp Date 11/30/20

Prep'd By (Initials) JP

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or,APPL Prep Date)	Final Standard Conc (range)
Semivolatile GC/MS Tuning Standard	Ultra Scientific	GCM-150-1	1,000 ug/mL	CR3789-38879	11/30/20	1,250 uL	25 mL	MC #58240	50 ug/mL

Name of Final Standard 8270 SIM PAH Internal Standard

Prep'd By (Initials) MA

Prep Date 10/28/19

Exp Date 10/28/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	A0151843-49414	07/35/25	625uL	10mL	MC 59130	125 ug/mL

Name of Final Standard SIM Curve

Prep'd By (Initials) MA

Prep Date 07/28/19

Exp Date 01/24/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 59130 90uL	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 59130 80uL	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	10 uL	100uL	MC 59130 90uL	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	08/10/19	01/24/20	20 uL	100uL	MC 59130 80 uL	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL

SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	5 uL	200uL	MC 59130 190 uL	5.0 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURR	100 ug/mL	05/17/19	01/24/20	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	4 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	10 uL	100 uL	MC 59130 80 uL	20 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	10 uL	*	*	10 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200	08/10/19	08/10/20	25 uL	100uL	MC 59130 50 uL	50 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	25 uL	*	*	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	PAH SIM STOCK	200 ug/mL	08/10/19	08/10/20	50 uL	100uL	na	100 ug/mL
SIM 2S SURROGA TE	APPL	SIM 2S SURROGA TE	100 ug/mL	05/17/19	01/24/20	50 uL	*	*	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	2 uL	*	*	2.5ug/mL

Name of

Final

Standard 8270 PAH SIM Second Source

Prep'd By (Initials)

MA

Prep Date 10/28/19

Exp Date 12/28/19

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	12/28/18	12/28/19	5 uL	200uL	MC 59130 195uL	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	10/28/19	10/28/20	4 uL	*	*	2.5ug/mL

Name of Final Standard PAH SIM Stock (Ampule)
 Prep Date 08/10/19
 Exp Date 08/10/20

Prep'd By (IMA)

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	CL13121-41102	08/10/20	1000 uL	1mL	NA	200ug/mL

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

Prep'd By (Initials) GA

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

Name of Final
Standard

SIM 2S Surrogate

Prep'd By (Initials)

GA

Prep Date 05/17/19

Exp Date 01/24/20

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

Name of Final Standard SIM Spike
 Prep Date 09/30/19
 Exp Date 09/30/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
(from container Label)	Supplier	APPL Mix Name	Conc. (range)	APPL prep date	Exp Date	Stock	Volume	(or APPL Prep Date)	Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	CL13121- 41224, 41225	12/31/22	2 mL	10 mL	Acetone 217497	40 ug/mL

Name of Final Standard SIM Surrogate
 Prep Date 09/03/19
 Exp Date 03/03/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0145699-40651,41234,41236	1/31/25, 4/20/25	2500 uL	50 mL	Acetone #217497	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	191029A	Extraction Method	LIQ003	Units	mL
Spiked ID 1	8270T Spike 10/3/19 10/3/20	Surrogate ID 1	8270 Surrogate 10/3/19 10/3/20	Surrogate ID 2	SIM Surrogate 10/27/19 10/25/20	Surrogate ID 3	
Spiked ID 2	Sim Spike 9/30/19 9/30/19 9/30/20	Surrogate ID 4		Surrogate ID 5			
Spiked ID 3		Sufficient Vol for Matrix QC: no					
Spiked ID 4		Ext. Start Time:	10/29/19 12:35				
Spiked ID 5		Ext. End Time:	11/04/19 10:25				
Spiked ID 6		GC Requires Extract By:					
Spiked ID 7		pH1	2	10/29/19 14:00	Water Bath Temp 1 °C	EWB5 75/74.2 °	
Spiked ID 8		pH2	14	10/30/19 13:05	Water Bath Temp 2 °C	EWB6 75/74.9	
		pH3			Water Bath Temp 3 °C		

Spiked By:		Date	Witnessed By:				Date			
Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	191029A Bk			1,050	1,2	800	1	2/1	10/29/19 12:35	
					equip	EWB5				
2	191029A LCS-1	1	1	1	1	800	1	2/1	10/29/19 12:35	
					equip	EWB5				
3	191029A LCS-2	0.125	2	0.050	2	800	1	2/1	10/29/19 12:35	
					equip	EWB5				
4	191029A LCSD-1	1	1	1	1	800	1	2/1	10/29/19 12:35	
					equip	EWB5				
5	191029A LCSD-2	0.125	2	0.050	2	800	1	2/1	10/29/19 12:35	
					equip	EWB5				
6	BA01775 BA01775W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB5				
7	BA01777 BA01777W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB5				
8	BA01779 BA01779W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB5				
9	BA01781 BA01781W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB5				
10	BA01782 BA01782W10			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB5				
11	BA01784 BA01784W14			1,050	1,2	800	1	2/1	10/29/19 12:35	90551
					equip	EWB6				
12	BA01829 BA01829W11			1,050	1,2	800	1	2/1	10/29/19 12:35	90559
					equip	EWB6				
13	BA01831 BA01831W17			1,050	1,2	800	1	2/1	10/29/19 12:35	90559
					equip	EWB6				
14	BA01833 BA01833W14			1,050	1,2	800	1	2/1	10/29/19 12:35	90559
					equip	EWB6				

Solvent and Lot#	
PH Strips	HC863463
Dichloromethane (DCM)	59130
1+1 H2SO4	10/14/19
10N NaOH	10/25/19
Filter Paper	400171
B. Na2SO4	2019020631

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	JP
Date	11/4/19
Time	11:44
Refrigerator	GC_C

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

Modified 11/05/19 5:24:40 PM

Reviewed By: **MA** Date **11/5/19**

Injection Log

Directory: M:\LINUS\DATA\L191028\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2	1028L002.D	1	SV Tune 10/01/19		28 Oct 19 10:20
4	1028L004.D	1	5 SIM 10/28/19(2)		28 Oct 19 12:26
5	1028L005.D	1	0.1 SIM 10/28/19		28 Oct 19 12:51
6	1028L006.D	1	0.2 SIM 10/28/19		28 Oct 19 13:13
7	1028L007.D	1	0.5 SIM 10/28/19		28 Oct 19 13:35
8	1028L008.D	1	1 SIM 10/28/19		28 Oct 19 13:57
9	1028L009.D	1	20 SIM 10/28/19		28 Oct 19 14:19
10	1028L010.D	1	50 SIM 10/28/19		28 Oct 19 14:42
11	1028L011.D	1	100 SIM 10/28/19		28 Oct 19 15:04
12	1028L012.D	1	SS SIM 10/28/19		28 Oct 19 15:55
61	1028L161.D	1	SV Tune 10/01/19		5 Nov 19 9:37
62	1028L162.D	1	5 SIM 10/28/19 (1)		5 Nov 19 9:53
63	1028L163.D	1.25	191029A BLK 1/800		5 Nov 19 10:31
64	1028L164.D	1.25	191029A LCS-2 1/800		5 Nov 19 10:53
65	1028L165.D	1.25	191029A LCSD-2 1/800		5 Nov 19 12:04
72	1028L172.D	1.25	BA01829W11 1/800		5 Nov 19 14:39
73	1028L173.D	1.25	BA01831W17 1/800		5 Nov 19 15:01
74	1028L174.D	1.25	BA01833W14 1/800		5 Nov 19 15:23
76	1028L176.D	1	5 SIM 10/28/19 (1)		5 Nov 19 16:00

ORGANICS
Calibration Data

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19
Instrument: Yoda

Initials: *HA*

1015Y004.D 1015Y005.D 1015Y006.D 1015Y007.D 1015Y008.D 1015Y010.D 1015Y009.D 1015Y010.D 1015Y011.D

	Compound	4	5	10	20	40	50	60	80	100	Avg	%RSD	Type	r^2	Q	MRF
1	I 1,4-dichlorobenzene-D4(1S)	ISTD														
2	1,4-Dioxane		0.3530	0.3893	0.2693	0.3027	0.2621	0.2998	0.3012	0.2730	0.31	14				
3	TM n-Nitrosodimethylamine		0.8794	0.7698	0.7223	0.6934	0.6081	0.6676	0.5851	0.6107	0.69	14	TM			
4	TM Pyridine		1.300	1.485	1.442	1.304	1.197	1.420	1.302	1.343	1.3	7.0	TM			
5	S 2-Fluorophenol (S)		1.401	1.379	1.307	1.317	1.210	1.319	1.295	1.324	1.3	4.4	S			
6	S Phenol-D6 (S)		1.585	1.567	1.478	1.495	1.380	1.491	1.466	1.494	1.5	4.2	S			
7	*TM Phenol		2.060	2.309	2.088	1.951	1.674	1.946	1.803	1.838	2.0	10	*TM			0.800
8	TM Aniline		1.920	2.325	2.175	2.028	1.771	2.059	1.905	1.910	2.0	8.7	TM			
9	TM Bis (2-chloroethyl) ether		0.8544	0.9097	0.8438	0.7693	0.6557	0.7823	0.7275	0.7292	0.78	10	TM			0.700
10	TM 2-Chlorophenol		1.682	1.793	1.675	1.586	1.360	1.564	1.464	1.483	1.6	8.9	TM			0.800
11	TM 1,3-DCB		2.014	2.074	1.961	1.866	1.607	1.873	1.746	1.770	1.9	8.2	TM			
12	*TM 1,4-DCB		2.047	2.133	1.972	1.874	1.631	1.899	1.781	1.795	1.9	8.4	*TM			
13	TM Benzyl alcohol		1.009	1.111	1.018	0.9455	0.8289	0.9518	0.8953	0.8903	0.96	9.3	TM			
14	TM 1,2-DCB		1.843	2.009	1.871	1.744	1.515	1.743	1.644	1.668	1.8	8.7	TM			
15	TM 2-Methylphenol		1.346	1.501	1.379	1.268	1.081	1.258	1.169	1.180	1.3	11	TM			0.700
16	TM Bis (2-chloroisopropyl) ether		0.7566	0.8140	0.7271	0.6719	0.5607	0.6654	0.6182	0.6202	0.68	12	TM			0.010
17	TM Acetophenone		2.499	2.697	2.516	2.331	2.072	2.338	2.250	2.286	2.4	8.1	TM			0.010
18	TM 3&4-Methylphenol		1.788	1.981	1.810	1.681	1.473	1.696	1.601	1.642	1.7	8.9	TM			0.600
19	**TM n-Nitrosodi-n-propylamine		1.371	1.418	1.330	1.235	1.059	1.219	1.143	1.149	1.2	10	**TM			0.500
20	TM Hexachloroethane		0.8090	0.8598	0.8227	0.7741	0.6827	0.7796	0.7315	0.7323	0.77	7.4	TM			0.300
21	I Naphthalene-D8(1S)	ISTD														
22	S Nitrobenzene-D5(S)		0.4945	0.4119	0.4063	0.4176	0.4285	0.4246	0.4344	0.4542	0.43	6.6	S			
23	TM Nitrobenzene		0.5114	0.5493	0.5263	0.4911	0.4601	0.4867	0.4686	0.4880	0.50	6.0	TM			0.200
24	TM Isophorone		0.8864	0.9111	0.8655	0.7958	0.7318	0.7808	0.7600	0.7834	0.81	8.0	TM			0.400
25	*TM 2-Nitrophenol		0.2101	0.2324	0.2232	0.2171	0.2054	0.2182	0.2151	0.2257	0.22	3.9	*TM			0.100
26	TM 2,4-Dimethylphenol		0.4289	0.4242	0.3824	0.3563	0.3397	0.3455	0.3304	0.3498	0.37	10	TM			0.200
27	TM Benzoic acid		0.2206	0.3001	0.3387	0.3463	0.3501	0.3651	0.3603	0.3341	0.33	14	TM			
28	TM Bis (2-chloroethoxy) methane		0.4635	0.4863	0.4590	0.4164	0.3848	0.4195	0.3999	0.4148	0.43	8.1	TM			0.300
29	*TM 2,4-Dichlorophenol		0.4112	0.4284	0.4100	0.3735	0.3485	0.3742	0.3684	0.3794	0.39	7.0	*TM			0.200
30	TM 1,2,4-Trichlorobenzene		0.5131	0.5206	0.4963	0.4609	0.4337	0.4610	0.4566	0.4779	0.48	6.3	TM			
31	TM 3,4-Dimethylphenol		0.6740	0.6939	0.6521	0.6027	0.5664	0.6029	0.5879	0.6128	0.62	7.1	TM			
32	TM Naphthalene		1.322	1.342	1.270	1.159	1.075	1.168	1.128	1.178	1.2	7.9	TM			0.700
33	TM 4-Chloroaniline		0.4598	0.5380	0.5241	0.4632	0.4290	0.4496	0.4132	0.4063	0.46	10	TM			0.010
34	TM 2,6-Dichlorophenol		0.3946	0.4067	0.3947	0.3643	0.3340	0.3615	0.3538	0.3676	0.37	6.6	TM			
35	TM Hexachloropropene		0.4482	0.4842	0.4651	0.4453	0.4264	0.4496	0.4430	0.4633	0.45	3.9	TM			

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
36	*TM	Hexachlorobutadiene		0.3782	0.4008	0.3841	0.3644	0.3431	0.3611	0.3530	0.3722		0.37	5.0	*TM		0.010
37	TM	Caprolactum		0.1120	0.1144	0.1144	0.1028	0.0944	0.1024	0.0996	0.1041		0.11	7.0	TM		0.010
38	*TM	4-Chloro-3-methylphenol		0.4499	0.4705	0.4493	0.4117	0.3814	0.4137	0.4013	0.4252		0.43	6.9	*TM		0.200
39	TM	2-Methylnaphthalene		0.8905	0.9311	0.8859	0.8148	0.7542	0.8082	0.7970	0.8379		0.84	6.9	TM		0.400
40	TM	1-Methylnaphthalene		0.9312	0.9539	0.9112	0.8387	0.7767	0.8363	0.8126	0.8584		0.86	7.1	TM		
41	I	Acenaphthene-D10(IS)	ISTD														
42	**TM	Hexachlorocyclopentadiene		0.7070	0.7962	0.7694	0.7753	0.7278	0.7729	0.7778	0.8429		0.77	5.3	**TM		0.050
43	TM	1,2,4,5-Tetrachlorobenzene		0.9561	0.9750	0.9068	0.8740	0.8287	0.8782	0.8747	0.9414		0.90	5.5	TM		0.010
44	*TM	2,4,6-Trichlorophenol		0.6121	0.6144	0.5859	0.5395	0.5107	0.5392	0.5224	0.5703		0.56	7.1	*TM		0.200
45	TM	2,4,5-Trichlorophenol		0.6319	0.6689	0.6388	0.6074	0.5644	0.5843	0.5719	0.6086		0.61	5.9	TM		0.200
46	S	2-Fluorobiphenyl(S)		1.693	1.559	1.521	1.517	1.511	1.452	1.520	1.625		1.5	4.9	S		
47	TM	1,1'-Biphenyl		1.977	1.989	1.855	1.720	1.633	1.699	1.680	1.802		1.8	7.6	TM		0.010
48	TM	2-Chloronaphthalene		1.685	1.682	1.544	1.457	1.343	1.425	1.394	1.491		1.5	8.4	TM		0.800
49	TM	2-Nitroaniline		0.4011	0.4500	0.4340	0.4159	0.4056	0.4183	0.4050	0.4274		0.42	4.0	TM		0.010
50	TM	Dimethyl phthalate		2.029	2.109	1.958	1.820	1.704	1.786	1.751	1.867		1.9	7.6	TM		0.010
51	TM	2,6-DNT		0.3694	0.4307	0.4116	0.3950	0.3774	0.3993	0.3862	0.4174		0.40	5.2	TM		0.200
52	TM	Acenaphthylene		2.451	2.526	2.367	2.208	2.068	2.179	2.098	2.258		2.3	7.3	TM		0.900
53	TM	3-Nitroaniline		0.4196	0.4633	0.4517	0.4283	0.4028	0.4262	0.4159	0.4479		0.43	4.7	TM		0.010
54	*TM	Acenaphthene		1.591	1.638	1.576	1.499	1.419	1.486	1.477	1.596		1.5	4.9	*TM		0.900
55	**TM	2,4-Dinitrophenol				0.1845	0.2153	0.2353	0.2425	0.2465	0.2783		0.23	14	**TM		0.010
56	**TM	4-Nitrophenol		0.0302	0.0313	0.0317	0.0289	0.0293	0.0286	0.0288	0.0300		0.03	4.0	**TM		0.010
57	TM	Dibenzofuran		2.389	2.469	2.286	2.127	2.007	2.077	2.046	2.198		2.2	7.6	TM		0.800
58	TM	2,4-DNT		0.5050	0.5851	0.5754	0.5578	0.5356	0.5541	0.5488	0.5907		0.56	5.0	TM		0.200
59	TM	2,3,4,6-Tetrachlorophenol		0.5471	0.5700	0.5350	0.5169	0.4941	0.5174	0.5097	0.5556		0.53	4.8	TM		0.010
60	TM	Diethyl phthalate		2.105	2.156	2.019	1.882	1.760	1.826	1.753	1.893		1.9	8.0	TM		0.010
61	TM	4-Chlorophenyl phenyl ether		1.185	1.202	1.138	1.086	1.035	1.095	1.111	1.204		1.1	5.4	TM		0.400
62	TM	Fluorene		1.928	1.961	1.845	1.780	1.669	1.789	1.788	1.964		1.8	5.6	TM		0.900
63	TM	4-Nitroaniline		0.3477	0.4037	0.3809	0.3597	0.3349	0.3419	0.3215	0.3378		0.35	7.6	TM		0.010
64	S	2,4,6-Tribromophenol(S)		0.3381	0.2924	0.3125	0.3318	0.3505	0.3378	0.3558	0.4017		0.34	9.5	S		
65	I	Phenanthrene-D10(IS)	ISTD														
66	TM	4,6-Dinitro-2-methylphenol			0.1396	0.1560	0.1603	0.1575	0.1689	0.1678	0.1795		0.16	7.8	TM		0.010
67	TM	Diphenyl amine		0.7090	0.7163	0.6726	0.6419	0.6001	0.6393	0.6282	0.6692		0.66	6.1	TM		
68	*TM	n-Nitrosodiphenylamine		0.7090	0.7163	0.6726	0.6419	0.6001	0.6393	0.6282	0.6692		0.66	6.1	*TM		0.010
69	TM	1,2-Diphenylhydrazine		0.8628	0.8836	0.8267	0.7681	0.6971	0.7397	0.7168	0.7317		0.78	9.0	TM		
70	TM	4-Bromophenyl phenyl ether		0.3223	0.3318	0.3172	0.2962	0.2818	0.2994	0.2996	0.3232		0.31	5.5	TM		0.100

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/15/19
Instrument: Yoda

Initials: _____

		Compound	4	5	10	20	40	50	60	80	100		Avg	%RSD	Type		Q
71	TM	Hexachlorobenzene		0.3483	0.3459	0.3349	0.3175	0.3018	0.3156	0.3186	0.3416		0.33	5.2	TM		0.100
72	TM	Atrazine		0.2893	0.3002	0.2644	0.2657	0.2592	0.2597	0.2558	0.2661		0.27	5.9	TM		0.010
73	*TM	Pentachlorophenol		0.1882	0.2209	0.2259	0.2157	0.2091	0.2185	0.2228	0.2366		0.22	6.5	*TM		0.050
74	TM	Phenanthrene		1.350	1.353	1.273	1.172	1.105	1.146	1.131	1.212		1.2	8.0	TM		0.700
75	TM	Anthracene		1.348	1.385	1.329	1.225	1.145	1.187	1.183	1.257		1.3	7.0	TM		0.700
76	TM	Carbazol		1.230	1.250	1.183	1.109	1.020	1.080	1.050	1.122		1.1	7.4	TM		0.010
77	TM	Di-n-butylphthalate		1.482	1.554	1.481	1.421	1.329	1.393	1.388	1.469		1.4	4.9	TM		0.010
78	*TM	Fluoranthene		1.592	1.674	1.579	1.535	1.427	1.497	1.473	1.562		1.5	5.0	*TM		0.600
79	I	Chrysene-D12(IS)	ISTD														
80	TM	Benzidine				0.3887	0.3345	0.3030	0.2986	0.2766	0.2840		0.31	13	TM		
81	TM	Pyrene		1.571	1.629	1.513	1.382	1.253	1.324	1.289	1.314		1.4	10	TM		0.600
82	S	Terphenyl-D14(S)		1.086	0.9752	0.9524	0.9350	0.9151	0.9108	0.9274	0.9553		0.96	5.9	S		
83	TM	Butyl benzylphthalate		0.6252	0.6839	0.6440	0.5922	0.5377	0.5692	0.5371	0.5621		0.59	8.9	TM		0.010
84	TM	3,3'-Dichlorobenzidine		0.4984	0.5973	0.5482	0.4820	0.4530	0.4454	0.4205	0.4334		0.48	13	TM		0.010
85	TM	Benz (a) anthracene		1.692	1.752	1.626	1.467	1.353	1.432	1.401	1.471		1.5	9.6	TM		0.800
86	TM	Bis (2-ethylhexyl) phthalate		0.9320	0.9804	0.9352	0.8519	0.7833	0.8167	0.8128	0.8340		0.87	8.2	TM		0.010
87	TM	Chrysene		1.597	1.641	1.529	1.414	1.297	1.329	1.262	1.306		1.4	10	TM		0.700
88	*TM	Di-n-octylphthalate		1.531	1.644	1.552	1.425	1.285	1.367	1.319	1.377		1.4	8.7	*TM		0.010
89	I	Perylene-D12(IS)	ISTD														
90	TM	Benzo (b) fluoranthene		1.556	1.552	1.422	1.417	1.320	1.445	1.323	1.590		1.5	7.2	TM		0.700
91	TM	Benzo (k) fluoranthene		1.337	1.482	1.451	1.243	1.200	1.224	1.318	1.258		1.3	8.0	TM		0.700
92	*TM	Benzo (a) pyrene	1.017	1.342	1.389	1.334	1.242	1.177	1.231	1.221	1.318		1.3	8.9	*TM		0.700
93	TM	Indeno (1,2,3-cd) pyrene		1.631	1.701	1.604	1.507	1.422	1.479	1.464	1.572		1.5	6.1	TM		0.500
94	TM	Dibenz (a,h) anthracene	1.047	1.406	1.485	1.405	1.311	1.250	1.296	1.292	1.391		1.3	9.6	TM		0.400
95	TM	Benzo (g,h,i) perylene		1.311	1.383	1.284	1.196	1.132	1.167	1.155	1.237		1.2	7.1	TM		0.500
96																	
97																	
98																	
99																	
100																	
101																	
102																	
103																	
104																	
105																	

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y004.D Vial: 4
 Acq On : 15 Oct 19 10:16 Operator: MA,SS
 Sample : 4ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:26 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	148876	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	562736	40.00000	ppb	-0.02
41) Acenaphthene-D10 (IS)	8.97	164	347322	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	774755	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	830987	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	959834	40.00000	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol (S)	0.00	112	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	0.00	82	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
46) 2-Fluorobiphenyl (S)	0.00	172	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
64) 2,4,6-Tribromophenol (S)	0.00	330	0d	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
82) Terphenyl-D14 (S)	0.00	244	0d	0.00000	ppb	
Spiked Amount	100.000		Recovery	=	0.000%	
Target Compounds						
92) Benzo (a) pyrene	15.58	252	97638	3.17215	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	100523	3.20919	ppb	97

Quantitation Report

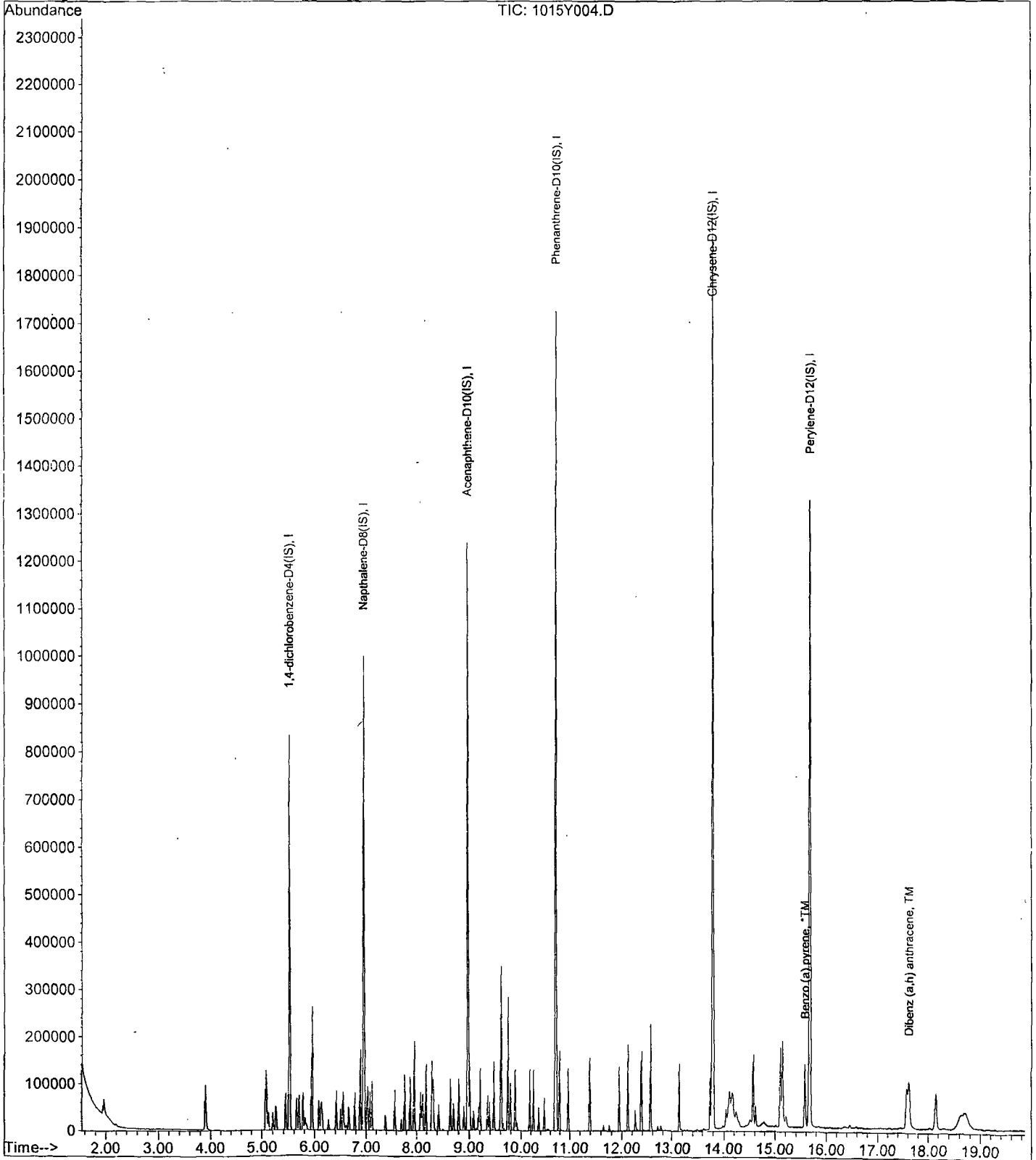
Data File : M:\YODA\DATA\Y191015\1015Y004.D
Acq On : 15 Oct 19 10:16
Sample : 4ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:26 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y005.D
 Acq On : 15 Oct 19 10:44
 Sample : 5ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	125780	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	490283	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	296001	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.70	188	664449	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	718467	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	819050	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.91	112	44070	9.64672	ppb	-0.01
Spiked Amount 200.000			Recovery =	4.824%		
6) Phenol-D6 (S)	5.08	99	49851	9.41136	ppb	-0.02
Spiked Amount 200.000			Recovery =	4.706%		
22) Nitrobenzene-D5 (S)	6.13	82	30306	5.19347	ppb	-0.02
Spiked Amount 100.000			Recovery =	5.193%		
46) 2-Fluorobiphenyl (S)	8.19	172	62657	5.48284	ppb	-0.01
Spiked Amount 100.000			Recovery =	5.483%		
64) 2,4,6-Tribromophenol (S)	9.89	330	25020	12.99996	ppb	-0.01
Spiked Amount 200.000			Recovery =	6.500%		
82) Terphenyl-D14 (S)	12.56	244	97550	5.47333	ppb	-0.01
Spiked Amount 100.000			Recovery =	5.473%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.74	58	555	0.85906		1
3) n-Nitrosodimethylamine	1.95	42	13826	8.60498	ppb	98
4) Pyridine	1.98	79	20443	5.78861	ppb	93
7) Phenol	5.09	94	32393	4.64540	ppb	93
8) Aniline	5.13	93	30194	4.57153	ppb	98
9) Bis (2-chloroethyl) ether	5.21	63	13433	4.25951	ppb	83
10) 2-Chlorophenol	5.27	128	26443	5.08768	ppb	91
11) 1,3-DCB	5.44	146	31672	5.31804	ppb	96
12) 1,4-DCB	5.53	146	32184	5.37826	ppb	99
13) Benzyl alcohol	5.66	108	15864	4.79314	ppb	96
14) 1,2-DCB	5.70	146	28971	5.15655	ppb	98
15) 2-Methylphenol	5.79	107	21159	4.88784	ppb	97
16) Bis (2-chloroisopropyl) et	5.82	45	11895	3.63749	ppb	# 70
17) Acetophenone	5.96	105	39292	5.11480	ppb	98
18) 3&4-Methylphenol	5.95	107	56230	9.95725	ppb	97
19) n-Nitrosodi-n-propylamine	5.96	70	21562	4.82234	ppb	97
20) Hexachloroethane	6.09	117	12719	5.08659	ppb	80
23) Nitrobenzene	6.15	77	31344	4.71152	ppb	98
24) Isophorone	6.42	82	54323	4.89534	ppb	98
25) 2-Nitrophenol	6.51	139	12879	5.14818	ppb	95
26) 2,4-Dimethylphenol	6.56	122	26285	5.49213	ppb	96
27) Benzoic acid	6.62	105	13522	3.83702	ppb	92
28) Bis (2-chloroethoxy) metha	6.67	93	28407	4.74921	ppb	98
29) 2,4-Dichlorophenol	6.78	162	25201	5.57992	ppb	98
30) 1,2,4-Trichlorobenzene	6.88	180	31446	5.85155	ppb	98
31) 3,4-Dimethylphenol	6.89	107	41306	5.44105	ppb	100
32) Napthalene	6.97	128	81004	5.40609	ppb	99
33) 4-Chloroaniline	7.03	127	28176	5.79244	ppb	96
34) 2,6-Dichlorophenol	7.04	162	24182	5.69182	ppb	93
35) Hexachloropropene	7.08	213	27467	5.96720	ppb	98
36) Hexachlorobutadiene	7.12	225	23180	6.00025	ppb	98
37) Caprolactum	7.39	55	6861	4.30957	ppb	89

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

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y005.D
 Acq On : 15 Oct 19 10:44
 Sample : 5ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.57	107	27571	5.30646	ppb	95
39) 2-Methylnaphthalene	7.76	142	54572	5.35556	ppb	96
40) 1-Methylnaphthalene	7.88	142	57069	5.47432	ppb	98
42) Hexachlorocyclopentadiene	7.96	237	26158	5.08539	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	35377	5.77521	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	22649	6.00363	ppb	96
45) 2,4,5-Trichlorophenol	8.12	196	23380	5.67614	ppb	90
47) 1,1'-Biphenyl	8.30	154	73137	5.43575	ppb	97
48) 2-Chloronaphthalene	8.33	162	62361	5.62941	ppb	96
49) 2-Nitroaniline	8.43	65	14841	4.43690	ppb	84
50) Dimethyl phthalate	8.64	163	75072	5.45637	ppb	99
51) 2,6-DNT	8.71	165	13668	4.83589	ppb	95
52) Acenaphthylene	8.80	152	90703	5.25317	ppb	99
53) 3-Nitroaniline	8.43	138	15527	4.74645	ppb	97
54) Acenaphthene	9.01	154	58861	5.22666	ppb	97
55) 2,4-Dinitrophenol	9.02	184	2792	1.93344	ppb	# 88
56) 4-Nitrophenol	8.71	65	1119	4.94059	ppb	# 77
57) Dibenzofuran	9.21	168	88376	5.48723	ppb	98
58) 2,4-DNT	9.18	165	18684	4.73423	ppb	# 74
59) 2,3,4,6-Tetrachlorophenol	9.35	232	20242	6.18984	ppb	93
60) Diethyl phthalate	9.47	149	77897	5.51616	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.61	204	43851	5.69866	ppb	92
62) Fluorene	9.61	166	71318	5.42103	ppb	98
63) 4-Nitroaniline	8.90	138	12864	5.12621	ppb	98
66) 4,6-Dinitro-2-methylphenol	9.66	198	8179	3.55318	ppb	# 94
67) Diphenyl amine	9.74	169	117769	10.54257	ppb	99
68) n-Nitrosodiphenylamine	9.74	169	117769	10.54257	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	71660	4.63833	ppb	97
70) 4-Bromophenyl phenyl ether	10.18	248	26767	5.66909	ppb	91
71) Hexachlorobenzene	10.25	284	28929	6.02587	ppb	90
72) Atrazine	10.36	200	12013	2.75831	ppb	96
73) Pentachlorophenol	10.47	266	15634	5.29082	ppb	100
74) Phenanthrene	10.73	178	112093	5.45738	ppb	98
75) Anthracene	10.79	178	111940	5.23535	ppb	99
76) Carbazol	10.96	167	102126	5.21940	ppb	99
77) Di-n-butylphthalate	11.38	149	123075	4.92573	ppb	99
78) Fluoranthene	12.12	202	132253	5.29517	ppb	99
80) Benzidine	12.26	184	32934	6.37668	ppb	97
81) Pyrene	12.38	202	141115	5.09272	ppb	99
83) Butyl benzylphthalate	13.14	149	56151	4.61792	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	44757	5.92293	ppb	97
85) Benz (a) anthracene	13.78	228	151990	5.31434	ppb	99
86) Bis (2-ethylhexyl) phthala	13.80	149	83702	4.80446	ppb	97
87) Chrysene	13.81	228	143454	5.38938	ppb	99
88) Di-n-octylphthalate	14.57	149	137484	4.75803	ppb	95
90) Benzo (b) fluoranthene	15.10	252	159316	5.37675	ppb	98
91) Benzo (k) fluoranthene	15.14	252	136861	4.75096	ppb	# 98
92) Benzo (a) pyrene	15.58	252	137424	5.23218	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.57	276	167003	5.33446	ppb	96
94) Dibenz (a,h) anthracene	17.62	278	143912	5.38410	ppb	97
95) Benzo (g,h,i) perylene	18.16	276	134201	5.37604	ppb	# 94

(#) = qualifier out of range (m) = manual integration
 1015Y005.D Y1015NC.M Wed Oct 16 09:18:31 2019

Quantitation Report

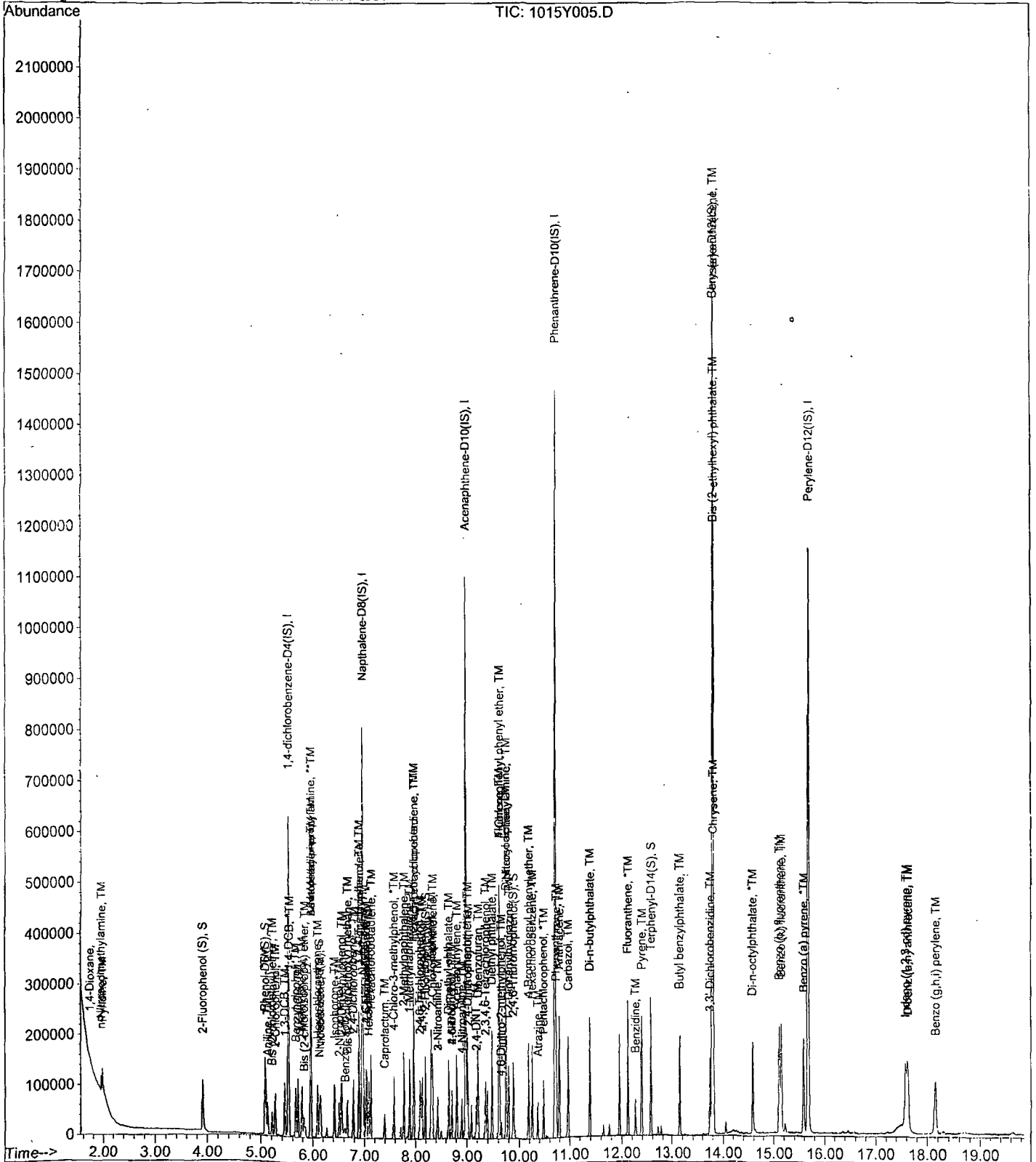
Data File : M:\YODA\DATA\Y191015\1015Y005.D
 Acq On : 15 Oct 19 10:44
 Sample : 5ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y006.D
 Acq On : 15 Oct 19 11:13
 Sample : 10ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.51	152	127526	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.96	136	524077	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	322778	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	727510	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	778151	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	888773	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.91	112	87955	18.98934	ppb	-0.01
Spiked Amount	200.000		Recovery	=	9.495%	
6) Phenol-D6 (S)	5.08	99	99944	18.61008	ppb	-0.02
Spiked Amount	200.000		Recovery	=	9.305%	
22) Nitrobenzene-D5 (S)	6.13	82	53967	8.65186	ppb	-0.02
Spiked Amount	100.000		Recovery	=	8.652%	
46) 2-Fluorobiphenyl (S)	8.19	172	125790	10.09418	ppb	-0.01
Spiked Amount	100.000		Recovery	=	10.094%	
64) 2,4,6-Tribromophenol (S)	9.89	330	47197	22.48840	ppb	-0.01
Spiked Amount	200.000		Recovery	=	11.244%	
82) Terphenyl-D14 (S)	12.56	244	189713	9.82798	ppb	-0.01
Spiked Amount	100.000		Recovery	=	9.828%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.72	58	1241	1.89460		# 1
3) n-Nitrosodimethylamine	1.94	42	24541	15.06463	ppb	85
4) Pyridine	1.97	79	47330	13.21839	ppb	92
7) Phenol	5.09	94	73621	10.41325	ppb	98
8) Aniline	5.13	93	74128	11.06970	ppb	98
9) Bis (2-chloroethyl) ether	5.20	63	29003	9.07074	ppb	94
10) 2-Chlorophenol	5.27	128	57151	10.84539	ppb	90
11) 1,3-DCB	5.44	146	66122	10.95052	ppb	98
12) 1,4-DCB	5.53	146	67999	11.20773	ppb	96
13) Benzyl alcohol	5.66	108	35407	10.55138	ppb	96
14) 1,2-DCB	5.70	146	64056	11.24523	ppb	98
15) 2-Methylphenol	5.79	107	47858	10.90409	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	25951	7.82716	ppb	# 73
17) Acetophenone	5.96	105	85976	11.03861	ppb	95
18) 3&4-Methylphenol	5.95	107	126289	22.05718	ppb	98
19) n-Nitrosodi-n-propylamine	5.96	70	45206	9.97189	ppb	99
20) Hexachloroethane	6.09	117	27412	10.81253	ppb	84
23) Nitrobenzene	6.15	77	71970	10.12069	ppb	98
24) Isophorone	6.43	82	119370	10.06344	ppb	92
25) 2-Nitrophenol	6.51	139	30446	11.38555	ppb	94
26) 2,4-Dimethylphenol	6.56	122	55581	10.86453	ppb	95
27) Benzoic acid	6.61	105	39322	10.43857	ppb	94
28) Bis (2-chloroethoxy) metha	6.67	93	63713	9.96497	ppb	99
29) 2,4-Dichlorophenol	6.78	162	56131	11.62692	ppb	97
30) 1,2,4-Trichlorobenzene	6.88	180	68203	11.87300	ppb	99
31) 3,4-Dimethylphenol	6.89	107	90914	11.20346	ppb	98
32) Napthalene	6.97	128	175795	10.97578	ppb	99
33) 4-Chloroaniline	7.03	127	70488	13.55654	ppb	95
34) 2,6-Dichlorophenol	7.04	162	53279	11.73186	ppb	96
35) Hexachloropropene	7.09	213	63441	12.89381	ppb	99
36) Hexachlorobutadiene	7.12	225	52518	12.71791	ppb	98
37) Caprolactum	7.41	55	14993	8.81021	ppb	# 71

(#) = qualifier out of range (m) = manual integration
 1015Y006.D Y1015NC.M Wed Oct 16 09:15:34 2019

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y006.D
 Acq On : 15 Oct 19 11:13
 Sample : 10ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.57	107	61640	11.09857	ppb	95
39) 2-Methylnaphthalene	7.76	142	121993	11.20010	ppb	98
40) 1-Methylnaphthalene	7.88	142	124975	11.21515	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	64249	11.45449	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	78680	11.77878	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	49575	12.05083	ppb	96
45) 2,4,5-Trichlorophenol	8.13	196	53974	12.01662	ppb	93
47) 1,1'-Biphenyl	8.30	154	160472	10.93732	ppb	97
48) 2-Chloronaphthalene	8.33	162	135696	11.23327	ppb	96
49) 2-Nitroaniline	8.43	65	36316	9.95644	ppb	91
50) Dimethyl phthalate	8.65	163	170210	11.34489	ppb	98
51) 2,6-DNT	8.72	165	34756	11.27691	ppb #	77
52) Acenaphthylene	8.80	152	203801	10.82419	ppb	99
53) 3-Nitroaniline	8.43	138	37383	10.47961	ppb	92
54) Acenaphthene	9.01	154	132166	10.76231	ppb	100
55) 2,4-Dinitrophenol	9.03	184	11664	7.40715	ppb	99
56) 4-Nitrophenol	8.71	65	2528	10.23564	ppb #	77
57) Dibenzofuran	9.21	168	199199	11.34215	ppb	96
58) 2,4-DNT	9.18	165	47211	10.97014	ppb	81
59) 2,3,4,6-Tetrachlorophenol	9.35	232	45992	12.89727	ppb	97
60) Diethyl phthalate	9.47	149	173952	11.29626	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	96965	11.55573	ppb	95
62) Fluorene	9.61	166	158228	11.02949	ppb	99
63) 4-Nitroaniline	8.91	138	32574	11.90367	ppb	90
66) 4,6-Dinitro-2-methylphenol	9.66	198	25382	10.07085	ppb #	97
67) Diphenyl amine	9.74	169	260549	21.30235	ppb	100
68) n-Nitrosodiphenylamine	9.74	169	260549	21.30235	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	160706	9.50034	ppb #	89
70) 4-Bromophenyl phenyl ether	10.18	248	60350	11.67384	ppb #	87
71) Hexachlorobenzene	10.25	284	62905	11.96724	ppb	90
72) Atrazine	10.36	200	27297	5.72439	ppb	94
73) Pentachlorophenol	10.47	266	40180	12.41898	ppb	97
74) Phenanthrene	10.73	178	246122	10.94406	ppb	100
75) Anthracene	10.79	178	251830	10.75699	ppb	100
76) Carbazol	10.97	167	227256	10.60772	ppb	99
77) Di-n-butylphthalate	11.38	149	282578	10.32908	ppb	100
78) Fluoranthene	12.12	202	304470	11.13375	ppb	98
80) Benzidine	12.26	184	86096	15.39133	ppb	97
81) Pyrene	12.39	202	316883	10.55889	ppb	99
83) Butyl benzylphthalate	13.14	149	133044	10.10247	ppb	92
84) 3,3'-Dichlorobenzidine	13.74	252	116207	14.19877	ppb	99
85) Benz (a) anthracene	13.78	228	340838	11.00335	ppb	100
86) Bis (2-ethylhexyl) phthala	13.81	149	190732	10.10823	ppb #	97
87) Chrysene	13.81	228	319183	11.07156	ppb	99
88) Di-n-octylphthalate	14.58	149	319770	10.21775	ppb	95
90) Benzo (b) fluoranthene	15.10	252	344891	10.72659	ppb	99
91) Benzo (k) fluoranthene	15.14	252	329300	10.53449	ppb	97
92) Benzo (a) pyrene	15.58	252	308623	10.82849	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.58	276	378000	11.12699	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	329999	11.37754	ppb	96
95) Benzo (g,h,i) perylene	18.16	276	307206	11.34112	ppb	94

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

1015Y006.D Y1015NC.M

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Page 2

Quantitation Report

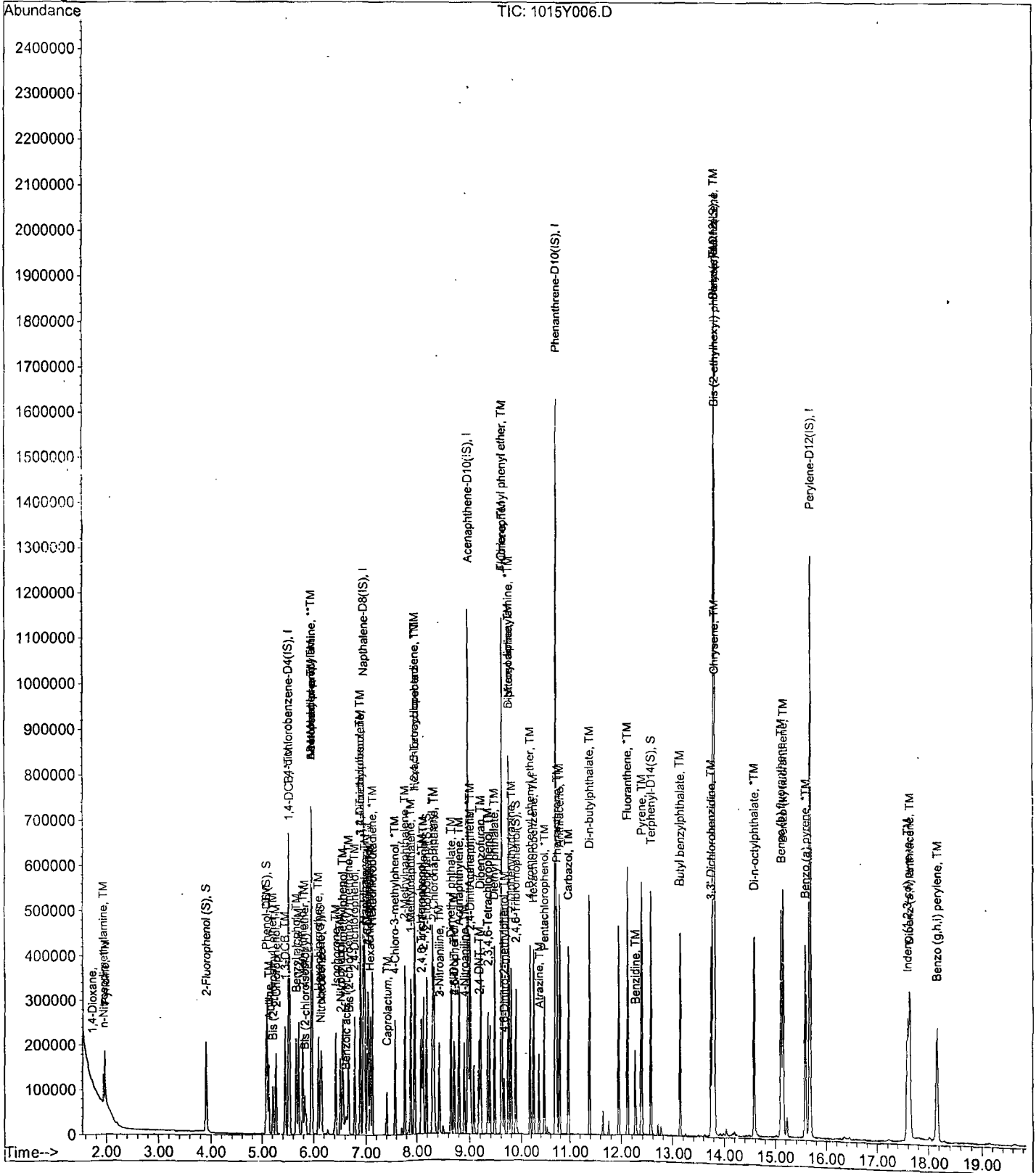
Data File : M:\YODA\DATA\Y191015\1015Y006.D
Acq On : 15 Oct 19 11:13
Sample : 10ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	115278	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	458250	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.97	164	287473	40.00000	ppb	-0.01
65) Phenanthrene-D10 (IS)	10.71	188	644340	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.79	240	705551	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	790264	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.91	112	150641	35.97864	ppb	-0.01
Spiked Amount	200.000					
					Recovery = 17.990%	
6) Phenol-D6 (S)	5.08	99	170369	35.09412	ppb	-0.02
Spiked Amount	200.000				Recovery = 17.547%	
22) Nitrobenzene-D5 (S)	6.13	82	93094	17.06850	ppb	-0.02
Spiked Amount	100.000				Recovery = 17.068%	
46) 2-Fluorobiphenyl (S)	8.19	172	218654	19.70105	ppb	-0.01
Spiked Amount	100.000				Recovery = 19.701%	
64) 2,4,6-Tribromophenol (S)	9.89	330	89848	48.06837	ppb	-0.01
Spiked Amount	200.000				Recovery = 24.034%	
82) Terphenyl-D14 (S)	12.56	244	335983	19.19641	ppb	-0.01
Spiked Amount	100.000				Recovery = 19.196%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	1552m	2.62113		1
3) n-Nitrosodimethylamine	1.95	42	41634	28.27266	ppb	91
4) Pyridine	1.97	79	83087	25.67010	ppb	94
7) Phenol	5.10	94	120355	18.83219	ppb	96
8) Aniline	5.13	93	125385	20.71340	ppb	99
9) Bis (2-chloroethyl) ether	5.21	63	48638	16.82781	ppb	86
10) 2-Chlorophenol	5.27	128	96572	20.27333	ppb	93
11) 1,3-DCB	5.44	146	113038	20.70930	ppb	96
12) 1,4-DCB	5.54	146	113636	20.71969	ppb	98
13) Benzyl alcohol	5.67	108	58684	19.34604	ppb	97
14) 1,2-DCB	5.70	146	107822	20.93959	ppb	99
15) 2-Methylphenol	5.79	107	79511	20.04077	ppb	100
16) Bis (2-chloroisopropyl) et	5.82	45	41909	13.98330	ppb	# 73
17) Acetophenone	5.96	105	144999	20.59466	ppb	85
18) 3&4-Methylphenol	5.96	107	208648	40.31354	ppb	96
19) n-Nitrosodi-n-propylamine	5.96	70	76656	18.70595	ppb	93
20) Hexachloroethane	6.09	117	47422	20.69277	ppb	87
23) Nitrobenzene	6.16	77	120584	19.39283	ppb	95
24) Isophorone	6.43	82	198305	19.11954	ppb	94
25) 2-Nitrophenol	6.51	139	51151	21.87613	ppb	88
26) 2,4-Dimethylphenol	6.56	122	87614	19.58623	ppb	98
27) Benzoic acid	6.64	105	77149	23.42223	ppb	93
28) Bis (2-chloroethoxy) metha	6.67	93	105175	18.81278	ppb	99
29) 2,4-Dichlorophenol	6.78	162	93945	22.25503	ppb	95
30) 1,2,4-Trichlorobenzene	6.89	180	113715	22.63953	ppb	98
31) 3,4-Dimethylphenol	6.89	107	149420	21.05827	ppb	100
32) Napthalene	6.98	128	290908	20.77195	ppb	99
33) 4-Chloroaniline	7.03	127	120084	26.41262	ppb	97
34) 2,6-Dichlorophenol	7.04	162	90434	22.77379	ppb	97
35) Hexachloropropene	7.09	213	106565	24.76957	ppb	99
36) Hexachlorobutadiene	7.12	225	88012	24.37485	ppb	99
37) Caprolactum	7.42	55	26202	17.60860	ppb	# 86

(#) = qualifier out of range (m) = manual integration
 1015Y007.D Y1015NC.M Wed Oct 16 09:18:39 2019

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	102953	21.20001	ppb	98
39) 2-Methylnaphthalene	7.76	142	202991	21.31358	ppb	100
40) 1-Methylnaphthalene	7.88	142	208772	21.42627	ppb	98
42) Hexachlorocyclopentadiene	7.96	237	110595	22.13868	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	130344	21.90957	ppb	100
44) 2,4,6-Trichlorophenol	8.09	196	84220	22.98668	ppb	98
45) 2,4,5-Trichlorophenol	8.13	196	91821	22.95339	ppb	95
47) 1,1'-Biphenyl	8.30	154	266580	20.40075	ppb	97
48) 2-Chloronaphthalene	8.33	162	221906	20.62600	ppb	98
49) 2-Nitroaniline	8.43	65	62388	19.20498	ppb	93
50) Dimethyl phthalate	8.66	163	281369	21.05709	ppb	99
51) 2,6-DNT	8.72	165	59168	21.55531	ppb	85
52) Acenaphthylene	8.80	152	340237	20.28979	ppb	100
53) 3-Nitroaniline	8.43	138	64925	20.43571	ppb	92
54) Acenaphthene	9.01	154	226545	20.71319	ppb	100
55) 2,4-Dinitrophenol	9.03	184	26523	18.91182	ppb	92
56) 4-Nitrophenol	8.72	65	4558	20.72139	ppb	# 89
57) Dibenzofuran	9.21	168	328567	21.00579	ppb	98
58) 2,4-DNT	9.18	165	82706	21.57809	ppb	86
59) 2,3,4,6-Tetrachlorophenol	9.35	232	76899	24.21268	ppb	97
60) Diethyl phthalate	9.48	149	290167	21.15730	ppb	97
61) 4-Chlorophenyl phenyl ethe	9.61	204	163558	21.88573	ppb	96
62) Fluorene	9.61	166	265249	20.76026	ppb	99
63) 4-Nitroaniline	8.91	138	54752	22.46552	ppb	86
66) 4,6-Dinitro-2-methylphenol	9.66	198	50274	22.52203	ppb	# 93
67) Diphenyl amine	9.75	169	433385	40.00699	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	433385	40.00699	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	266333	17.77690	ppb	# 90
70) 4-Bromophenyl phenyl ether	10.18	248	102203	22.32153	ppb	# 86
71) Hexachlorobenzene	10.25	284	107886	23.17383	ppb	93
72) Atrazine	10.36	200	42593	10.08502	ppb	96
73) Pentachlorophenol	10.47	266	72764	25.39314	ppb	96
74) Phenanthrene	10.73	178	410238	20.59623	ppb	99
75) Anthracene	10.79	178	428215	20.65233	ppb	99
76) Carbazol	10.98	167	381228	20.09164	ppb	98
77) Di-n-butylphthalate	11.38	149	477185	19.69400	ppb	100
78) Fluoranthene	12.12	202	508599	20.99890	ppb	98
80) Benzidine	12.27	184	137122	27.03559	ppb	99
81) Pyrene	12.39	202	533735	19.61465	ppb	99
83) Butyl benzylphthalate	13.14	149	227189	19.02633	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	193408	26.06323	ppb	97
85) Benz (a) anthracene	13.78	228	573739	20.42805	ppb	100
86) Bis (2-ethylhexyl) phthala	13.81	149	329899	19.28272	ppb	98
87) Chrysene	13.82	228	539268	20.63047	ppb	99
88) Di-n-octylphthalate	14.58	149	547403	19.29125	ppb	95
90) Benzo (b) fluoranthene	15.11	252	561796	19.65066	ppb	98
91) Benzo (k) fluoranthene	15.14	252	573214	20.62325	ppb	99
92) Benzo (a) pyrene	15.58	252	527013	20.79599	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.59	276	633749	20.98079	ppb	97
94) Dibenz (a,h) anthracene	17.63	278	555119	21.52486	ppb	97
95) Benzo (g,h,i) perylene	18.17	276	507253	21.06055	ppb	95

Quantitation Report

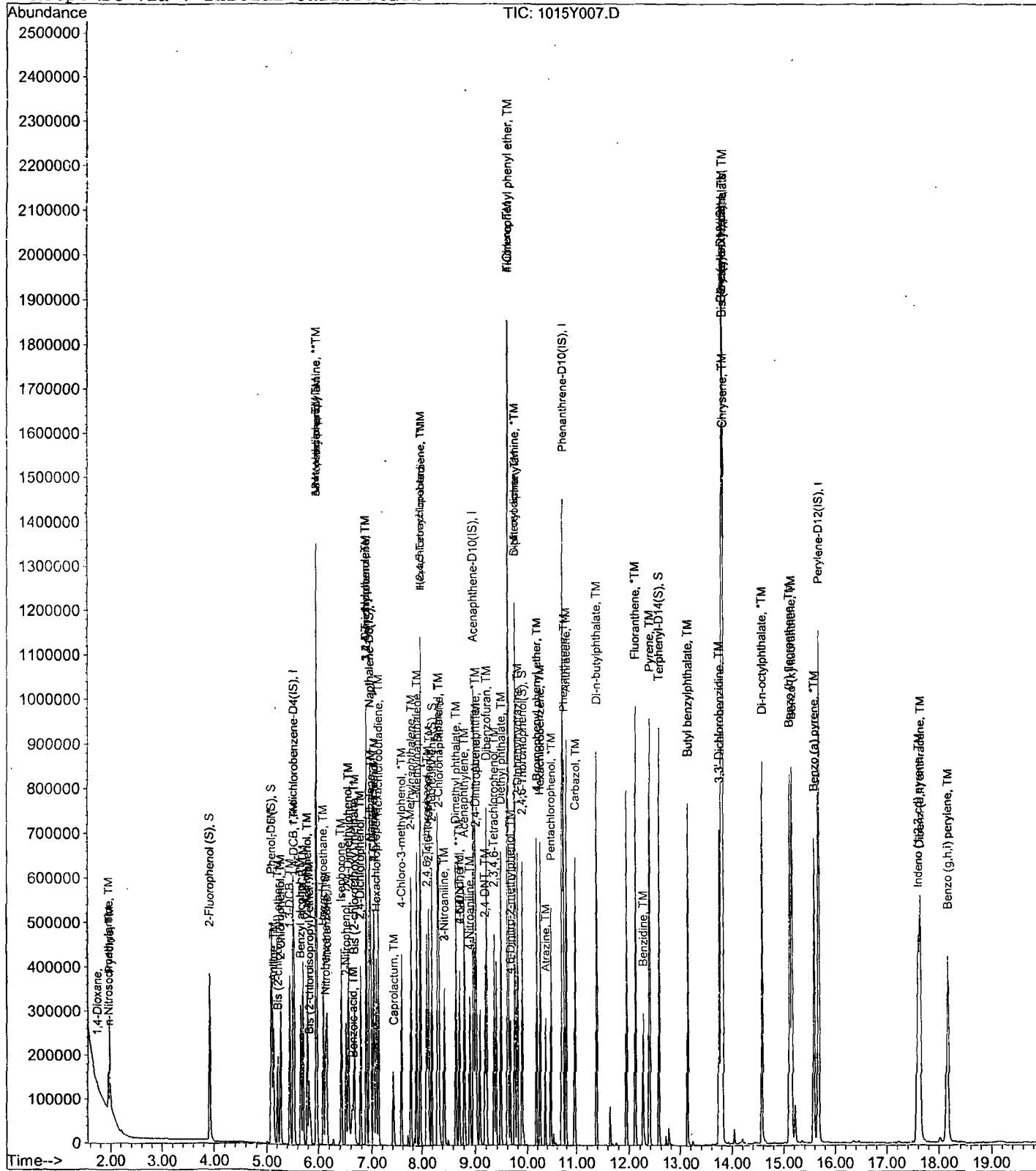
Data File : M:\YODA\DATA\Y191015\1015Y007.D
Acq On : 15 Oct 19 11:41
Sample : 20ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 15:28 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration

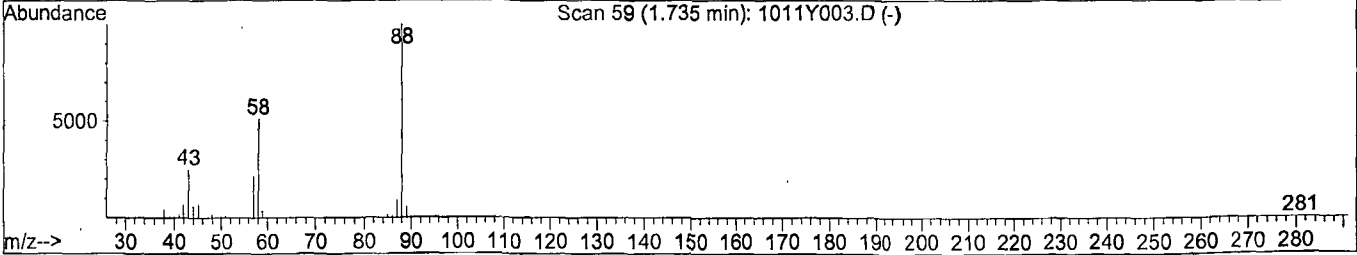
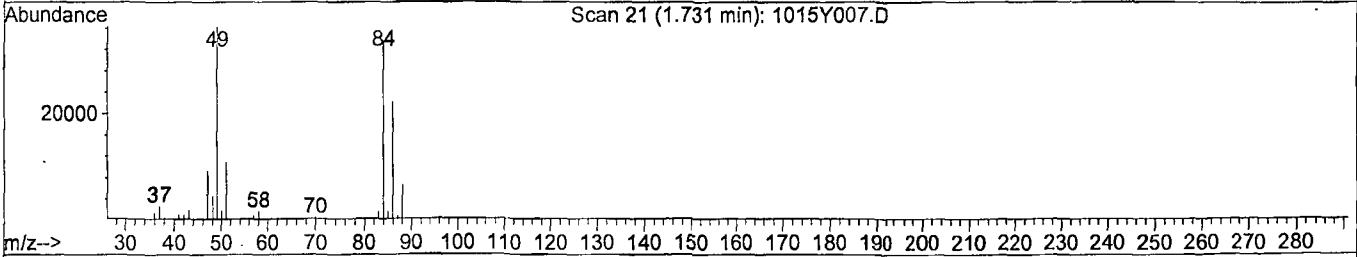
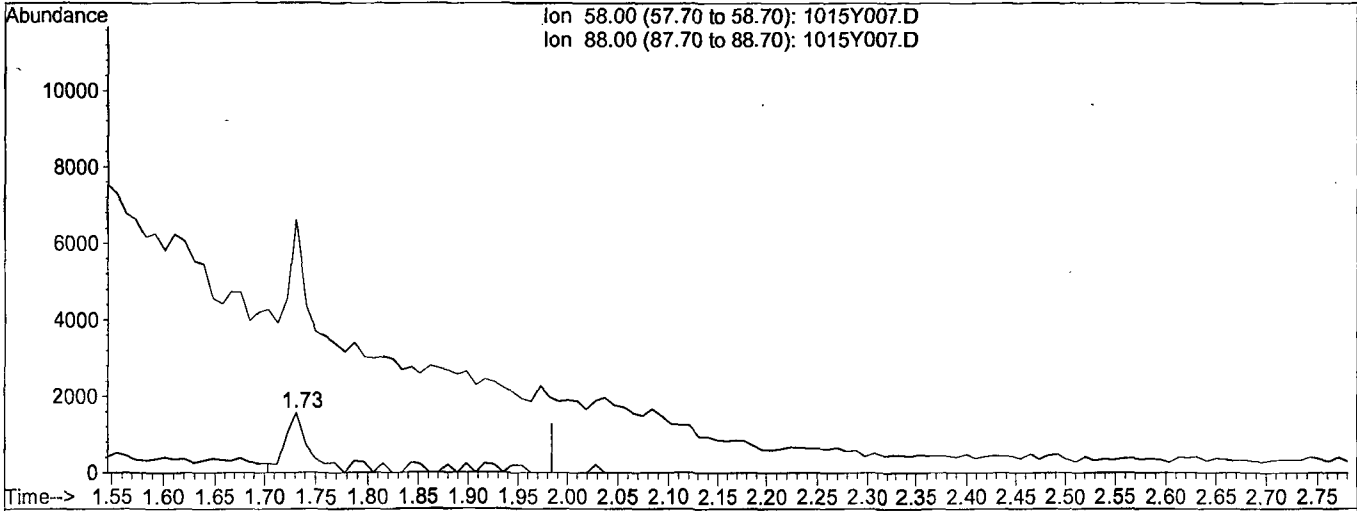


Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 14:25 2019

Vial: 7
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y007.D

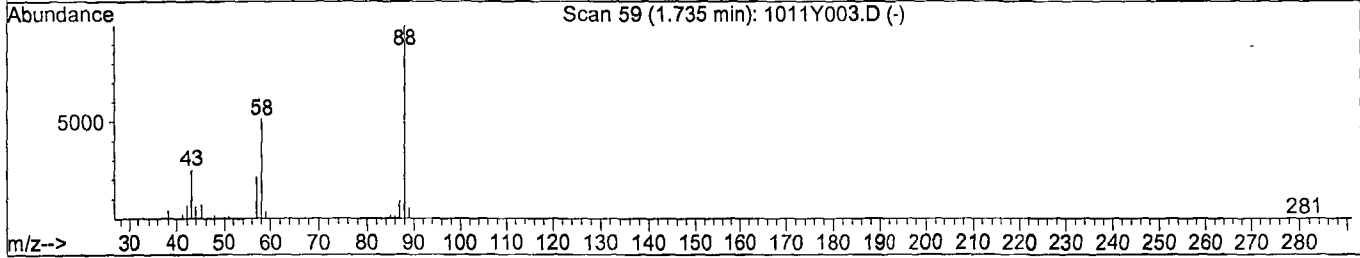
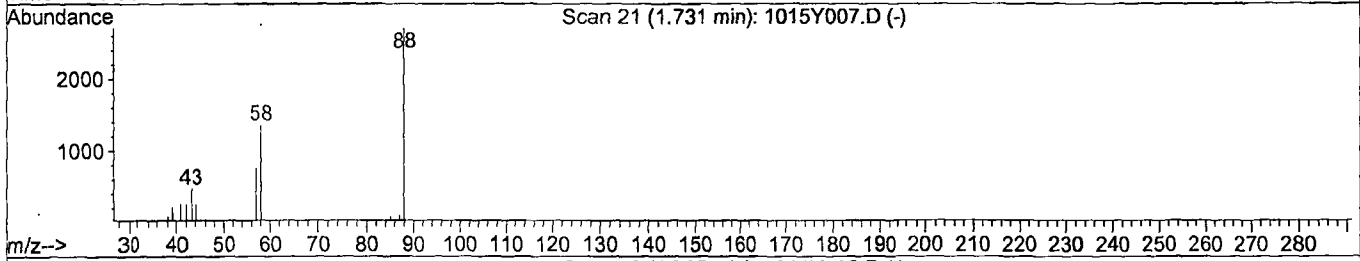
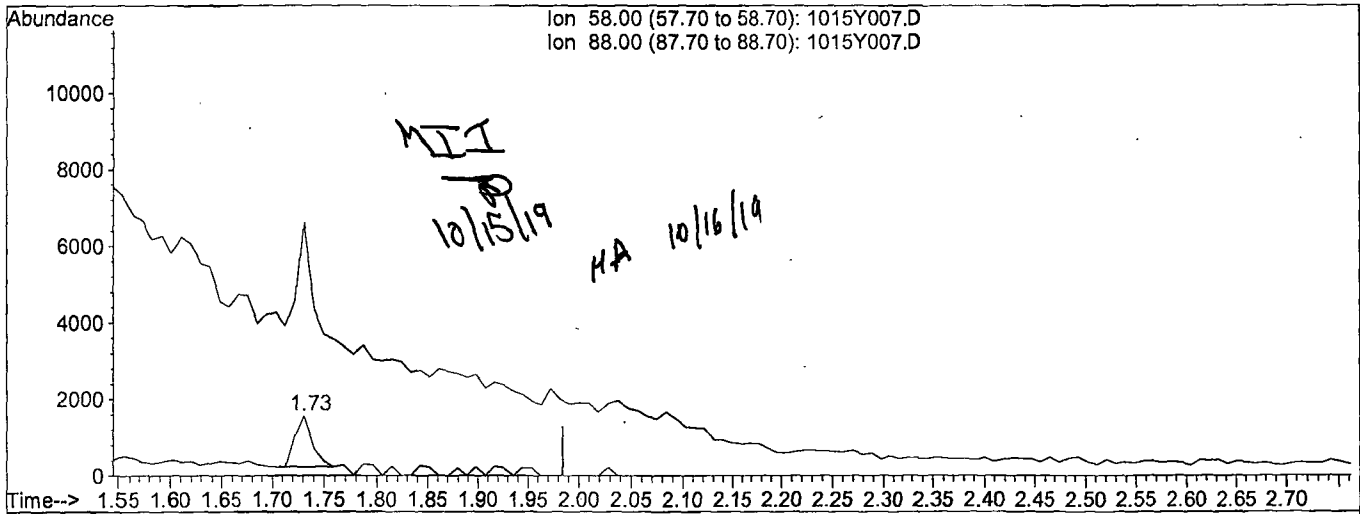
(2) 1,4-Dioxane		
1.73min	4.1665	
response	2467	
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	384.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y007.D
 Acq On : 15 Oct 19 11:41
 Sample : 20ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 15:28 2019

Vial: 7
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y007.D

(2) 1,4-Dioxane		
1.73min	2.6211 m	
response	1552	
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	610.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:26 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	117216	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	466409	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.98	164	287660	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	642519	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.80	240	741173	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	813465	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.91	112	308849	72.54498	ppb	-0.01
Spiked Amount	200.000		Recovery	=	36.273%	
6) Phenol-D6 (S)	5.09	99	350386	70.98231	ppb	-0.01
Spiked Amount	200.000		Recovery	=	35.491%	
22) Nitrobenzene-D5 (S)	6.14	82	194780	35.08759	ppb	-0.01
Spiked Amount	100.000		Recovery	=	35.088%	
46) 2-Fluorobiphenyl (S)	8.19	172	436309	39.28652	ppb	-0.01
Spiked Amount	100.000		Recovery	=	39.287%	
64) 2,4,6-Tribromophenol (S)	9.90	330	190899	102.06392	ppb	0.00
Spiked Amount	200.000		Recovery	=	51.032%	
82) Terphenyl-D14 (S)	12.56	244	692991	37.69112	ppb	-0.01
Spiked Amount	100.000		Recovery	=	37.691%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.72	58	3548m	5.89306		1
3) n-Nitrosodimethylamine	1.95	42	81275	54.27941	ppb	92
4) Pyridine	1.97	79	152812	46.43136	ppb	91
7) Phenol	5.11	94	228718	35.19627	ppb	96
8) Aniline	5.13	93	237728	38.62298	ppb	97
9) Bis (2-chloroethyl) ether	5.21	63	90178	30.68400	ppb	88
10) 2-Chlorophenol	5.27	128	185853	38.37098	ppb	94
11) 1,3-DCB	5.45	146	218760	39.41563	ppb	99
12) 1,4-DCB	5.54	146	219609	39.38011	ppb	99
13) Benzyl alcohol	5.67	108	110827	35.93168	ppb	98
14) 1,2-DCB	5.70	146	204401	39.03942	ppb	98
15) 2-Methylphenol	5.79	107	148616	36.83938	ppb	97
16) Bis (2-chloroisopropyl) et	5.83	45	78752	25.84184	ppb	# 74
17) Acetophenone	5.96	105	273270	38.17166	ppb	# 65
18) 3&4-Methylphenol	5.96	107	394090	74.88445	ppb	99
19) n-Nitrosodi-n-propylamine	5.97	70	144807	34.75223	ppb	97
20) Hexachloroethane	6.09	117	90736	38.93838	ppb	87
23) Nitrobenzene	6.16	77	229044	36.19144	ppb	98
24) Isophorone	6.43	82	371165	35.15979	ppb	96
25) 2-Nitrophenol	6.52	139	101255	42.54694	ppb	96
26) 2,4-Dimethylphenol	6.56	122	166200	36.50428	ppb	97
27) Benzoic acid	6.67	105	161529	48.18191	ppb	94
28) Bis (2-chloroethoxy) metha	6.67	93	194201	34.12931	ppb	99
29) 2,4-Dichlorophenol	6.79	162	174193	40.54346	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	214982	42.05206	ppb	98
31) 3,4-Dimethylphenol	6.90	107	281110	38.92474	ppb	98
32) Naphthalene	6.98	128	540746	37.93590	ppb	100
33) 4-Chloroaniline	7.03	127	216051	46.68939	ppb	98
34) 2,6-Dichlorophenol	7.04	162	169930	42.04449	ppb	97
35) Hexachloropropene	7.09	213	207674	47.42655	ppb	100
36) Hexachlorobutadiene	7.12	225	169961	46.24715	ppb	98
37) Caprolactum	7.44	55	47954	31.66291	ppb	86

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

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 15:26 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	192008	38.84651	ppb	97
39) 2-Methylnaphthalene	7.77	142	380008	39.20197	ppb	99
40) 1-Methylnaphthalene	7.89	142	391174	39.44391	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	223025	44.61567	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	251425	42.23465	ppb	100
44) 2,4,6-Trichlorophenol	8.09	196	155190	42.32942	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	174730	43.65056	ppb	# 88
47) 1,1'-Biphenyl	8.30	154	494695	37.83325	ppb	97
48) 2-Chloronaphthalene	8.33	162	419146	38.93399	ppb	99
49) 2-Nitroaniline	8.43	65	119625	36.80039	ppb	98
50) Dimethyl phthalate	8.66	163	523475	39.15035	ppb	99
51) 2,6-DNT	8.72	165	113631	41.36964	ppb	100
52) Acenaphthylene	8.81	152	635166	37.85304	ppb	100
53) 3-Nitroaniline	8.44	138	123191	38.75024	ppb	97
54) Acenaphthene	9.02	154	431151	39.39485	ppb	99
55) 2,4-Dinitrophenol	9.04	184	61929	44.12881	ppb	99
56) 4-Nitrophenol	8.72	65	8323	37.81308	ppb	# 93
57) Dibenzofuran	9.21	168	611903	39.09447	ppb	100
58) 2,4-DNT	9.19	165	160443	41.83254	ppb	98
59) 2,3,4,6-Tetrachlorophenol	9.35	232	148677	46.78252	ppb	98
60) Diethyl phthalate	9.48	149	541476	39.45563	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	312493	41.78757	ppb	98
62) Fluorene	9.61	166	511955	40.04317	ppb	100
63) 4-Nitroaniline	8.92	138	103468	42.42679	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.67	198	102969	46.25936	ppb	# 100
67) Diphenyl amine	9.75	169	824924	76.36688	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	824924	76.36688	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	493510	33.03362	ppb	91
70) 4-Bromophenyl phenyl ether	10.19	248	190331	41.68683	ppb	97
71) Hexachlorobenzene	10.26	284	204012	43.94582	ppb	# 78
72) Atrazine	10.36	200	85374	20.27184	ppb	99
73) Pentachlorophenol	10.48	266	138582	48.49933	ppb	97
74) Phenanthrene	10.74	178	753079	37.91592	ppb	99
75) Anthracene	10.79	178	787169	38.07187	ppb	100
76) Carbazol	10.98	167	712762	37.67075	ppb	99
77) Di-n-butylphthalate	11.38	149	913019	37.78818	ppb	100
78) Fluoranthene	12.12	202	986038	40.82665	ppb	98
80) Benzidine	12.27	184	247930	46.53360	ppb	98
81) Pyrene	12.39	202	1024427	35.83808	ppb	99
83) Butyl benzylphthalate	13.14	149	438910	34.99066	ppb	95
84) 3,3'-Dichlorobenzidine	13.74	252	357238	45.82688	ppb	98
85) Benz (a) anthracene	13.78	228	1087371	36.85522	ppb	99
86) Bis (2-ethylhexyl) phthala	13.81	149	631411	35.13243	ppb	98
87) Chrysene	13.83	228	1048016	38.16641	ppb	98
88) Di-n-octylphthalate	14.58	149	1056163	35.43178	ppb	95
90) Benzo (b) fluoranthene	15.12	252	1152337	39.15717	ppb	98
91) Benzo (k) fluoranthene	15.15	252	1011279	35.34636	ppb	98
92) Benzo (a) pyrene	15.59	252	1009951	38.71612	ppb	# 98
93) Indeno (1,2,3-cd) pyrene	17.60	276	1225883	39.42638	ppb	97
94) Dibenz (a,h) anthracene	17.64	278	1066708	40.18215	ppb	97
95) Benzo (g,h,i) perylene	18.19	276	972555	39.22767	ppb	# 95

(#) = qualifier out of range (m) = manual integration
 1015Y008.D Y1015NC.M Wed Oct 16 09:18:44 2019
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Quantitation Report

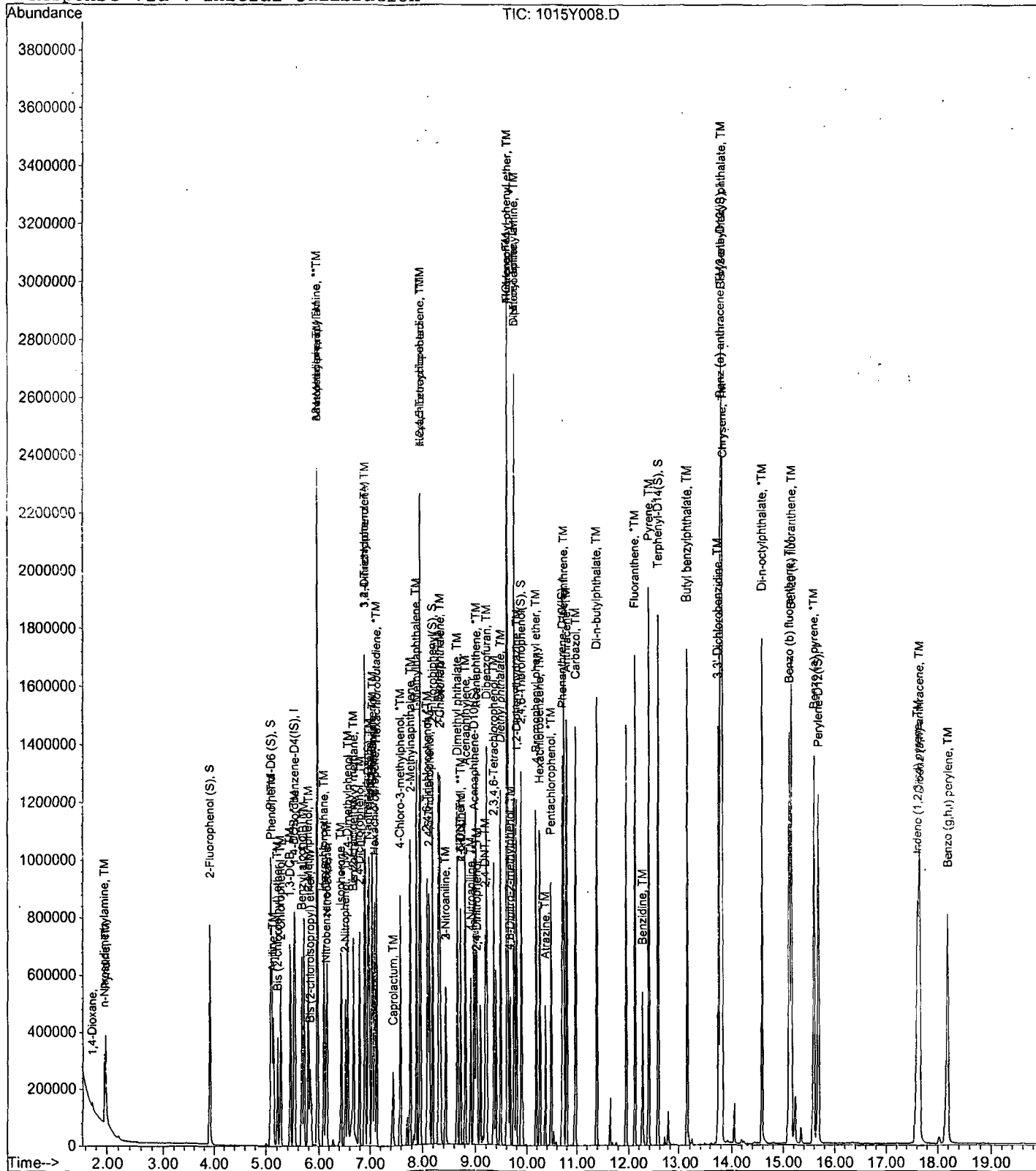
Data File : M:\YODA\DATA\Y191015\1015Y008.D
Acq On : 15 Oct 19 12:09
Sample : 40ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 15:26 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration

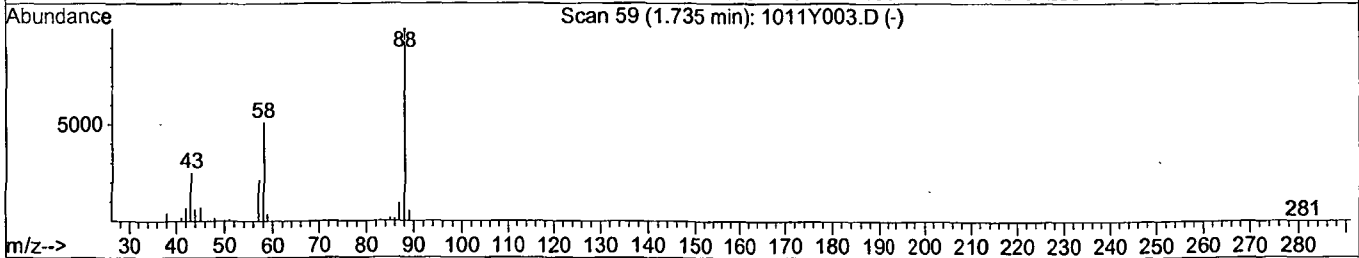
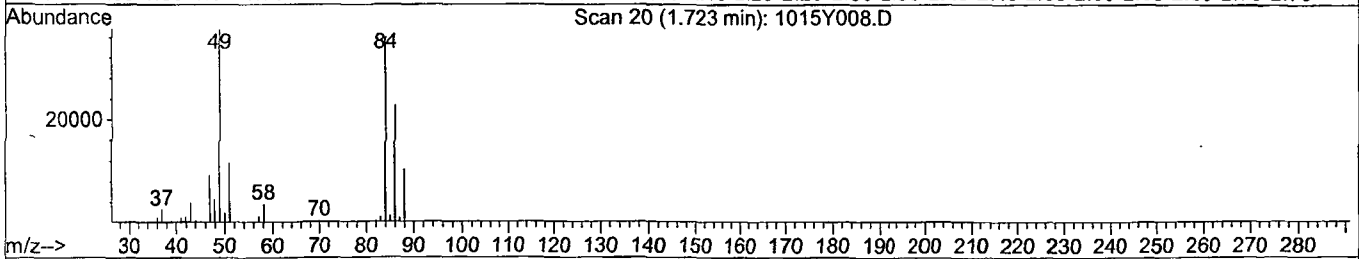
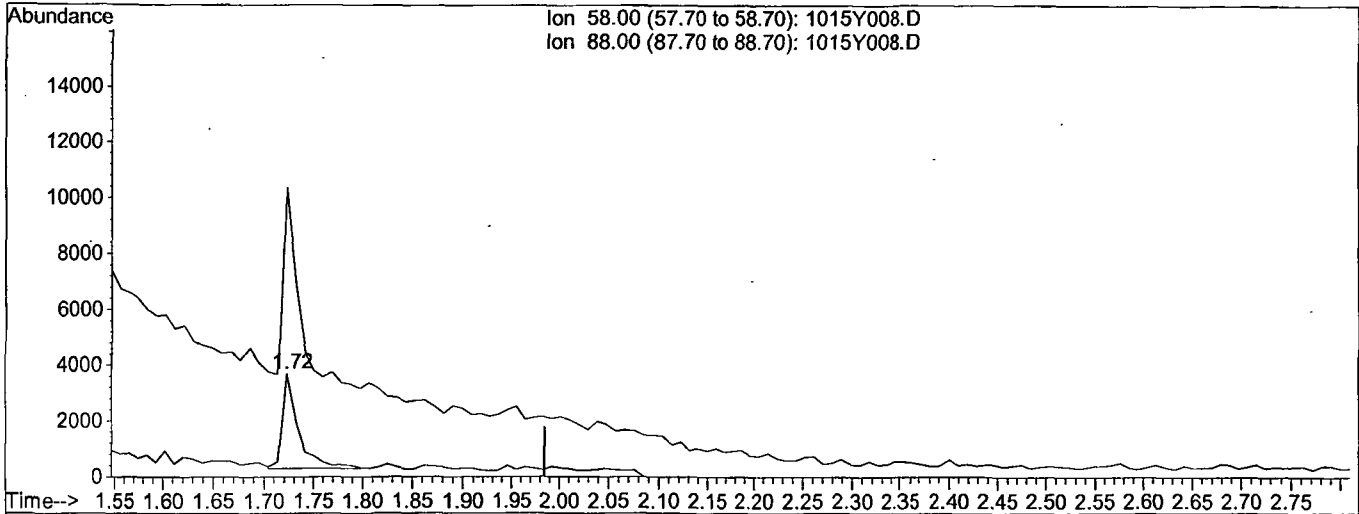


Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml. 8270 10/11/19
 Misc :
 Quant Time: Oct 15 14:25 2019

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y008.D

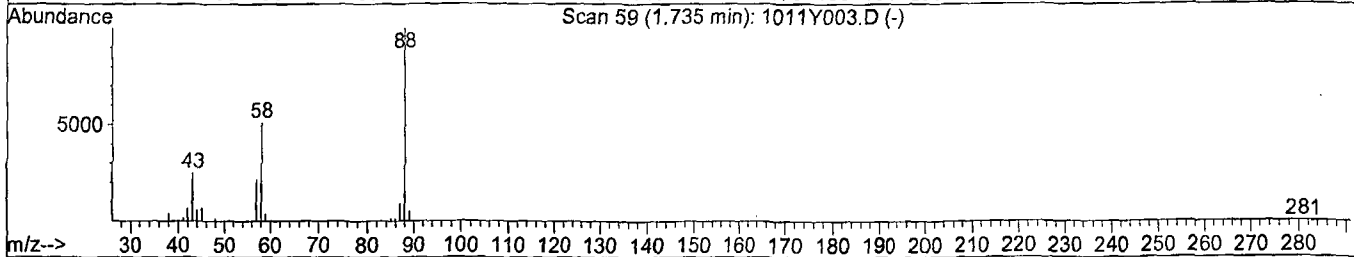
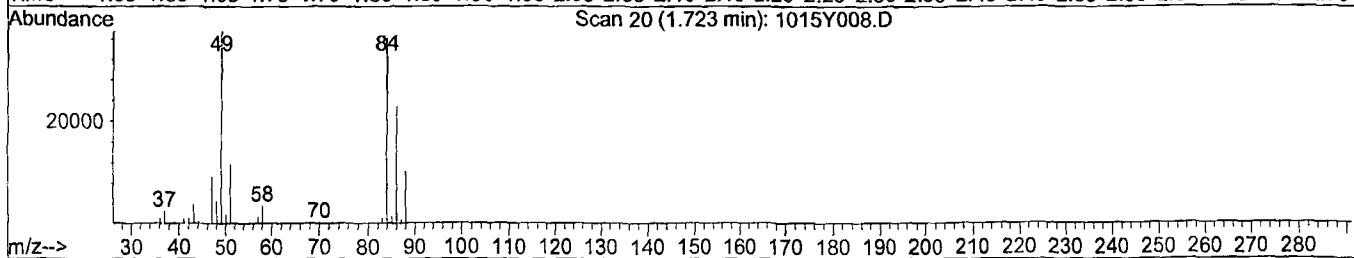
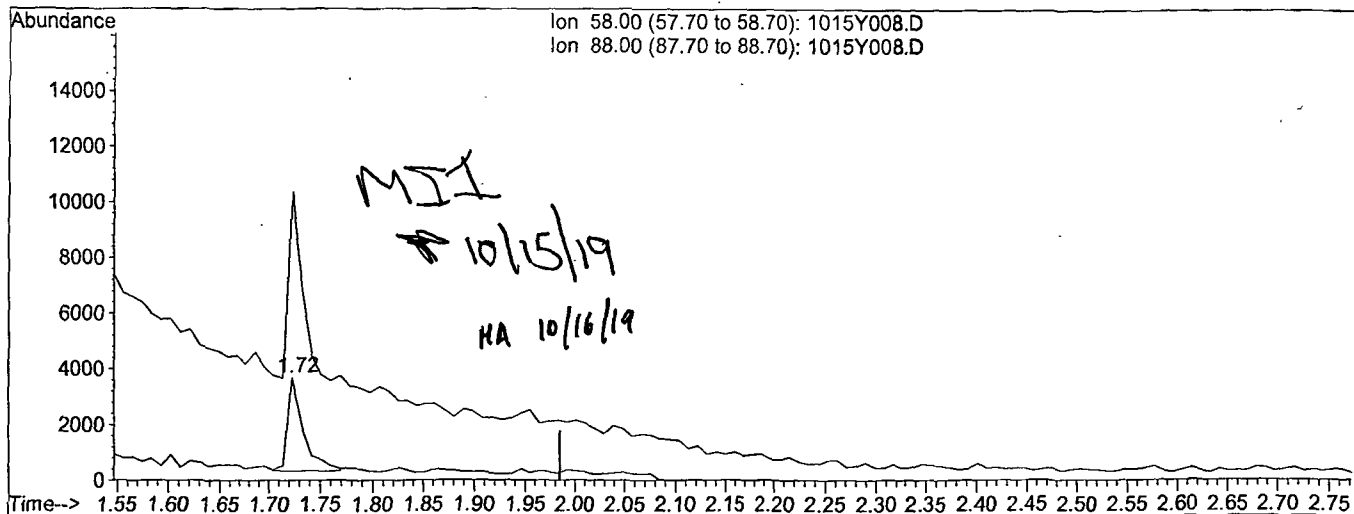
(2) 1,4-Dioxane		
1.72min	6.4295	
response	3871	
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	409.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y008.D
 Acq On : 15 Oct 19 12:09
 Sample : 40ug/ml 8270 10/11/19
 Misc :
 Quant Time: Oct 15 15:26 2019

Vial: 8
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Multiple Level Calibration



TIC: 1015Y008.D

(2) 1,4-Dioxane		
1.72min	5.8931 m	
response	3548	
Ion	Exp%	Act%
58.00	100	100
88.00	203.60	446.82#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y191015\1015Y009.D
 Acq On : 15 Oct 19 12:38
 Sample : 60ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	108401	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.95	136	433475	40.00000	ppb	-0.02
41) Acenaphthene-D10 (IS)	8.98	164	274601	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	619080	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	732366	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.68	264	770489	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.92	112	428974	108.95464	ppb	0.00
Spiked Amount 200.000			Recovery =	54.478%		
6) Phenol-D6 (S)	5.10	99	485010	106.24480	ppb	0.00
Spiked Amount 200.000			Recovery =	53.123%		
22) Nitrobenzene-D5 (S)	6.14	82	276054	53.50644	ppb	-0.02
Spiked Amount 100.000			Recovery =	53.506%		
46) 2-Fluorobiphenyl (S)	8.20	172	598118	56.41748	ppb	0.00
Spiked Amount 100.000			Recovery =	56.417%		
64) 2,4,6-Tribromophenol (S)	9.90	330	278286	155.86094	ppb	0.00
Spiked Amount 200.000			Recovery =	77.930%		
82) Terphenyl-D14 (S)	12.57	244	1000601	55.07618	ppb	0.00
Spiked Amount 100.000			Recovery =	55.076%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	4874	8.75379		80
3) n-Nitrosodimethylamine	1.95	42	108554	78.39305	ppb	97
4) Pyridine	1.97	79	230970	75.88626	ppb	99
7) Phenol	5.12	94	316443	52.65570	ppb	99
8) Aniline	5.13	93	334743	58.80720	ppb	99
9) Bis (2-chloroethyl) ether	5.22	63	127202	46.80141	ppb	90
10) 2-Chlorophenol	5.27	128	254292	56.77010	ppb	93
11) 1,3-DCB	5.45	146	304560	59.33720	ppb	98
12) 1,4-DCB	5.53	146	308708	59.85884	ppb	99
13) Benzyl alcohol	5.67	108	154767	54.25802	ppb	98
14) 1,2-DCB	5.71	146	283409	58.53122	ppb	97
15) 2-Methylphenol	5.79	107	204508	54.81642	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	108189	38.38828	ppb	# 80
17) Acetophenone	5.97	105	380171	57.42245	ppb	# 73
18) 3&4-Methylphenol	5.97	107	551606	113.33885	ppb	98
19) n-Nitrosodi-n-propylamine	5.98	70	198288	51.45684	ppb	95
20) Hexachloroethane	6.09	117	126765	58.82355	ppb	99
23) Nitrobenzene	6.17	77	316466	53.80429	ppb	95
24) Isophorone	6.44	82	507694	51.74688	ppb	# 90
25) 2-Nitrophenol	6.52	139	141895	64.15371	ppb	89
26) 2,4-Dimethylphenol	6.56	122	224671	53.09611	ppb	95
27) Benzoic acid	6.69	105	237364	76.18181	ppb	99
28) Bis (2-chloroethoxy) metha	6.68	93	272782	51.58157	ppb	99
29) 2,4-Dichlorophenol	6.80	162	243318	60.93505	ppb	96
30) 1,2,4-Trichlorobenzene	6.89	180	299719	63.08155	ppb	97
31) 3,4-Dimethylphenol	6.90	107	391994	58.40254	ppb	100
32) Napthalene	6.98	128	759492	57.33016	ppb	100
33) 4-Chloroaniline	7.04	127	292321	67.97119	ppb	97
34) 2,6-Dichlorophenol	7.05	162	235082	62.58371	ppb	98
35) Hexachloropropene	7.08	213	292346	71.83556	ppb	98
36) Hexachlorobutadiene	7.13	225	234810	68.74722	ppb	99
37) Caprolactum	7.46	55	66588	47.30694	ppb	85

(#) = qualifier out of range (m) = manual integration
 1015Y009.D Y1015NC.M Wed Oct 16 09:18:48 2019

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y009.D
 Acq On : 15 Oct 19 12:38
 Sample : 60ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	269003	58.55886	ppb	99
39) 2-Methylnaphthalene	7.77	142	525477	58.32728	ppb	98
40) 1-Methylnaphthalene	7.88	142	543796	58.99957	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	318366	66.71721	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	361723	63.65227	ppb	98
44) 2,4,6-Trichlorophenol	8.10	196	222087	63.45694	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	240688	62.98746	ppb	95
47) 1,1'-Biphenyl	8.31	154	699730	56.05882	ppb #	97
48) 2-Chloronaphthalene	8.34	162	586851	57.10429	ppb	97
49) 2-Nitroaniline	8.44	65	172304	55.52686	ppb	95
50) Dimethyl phthalate	8.66	163	735831	57.64944	ppb	99
51) 2,6-DNT	8.73	165	164459	62.72200	ppb	89
52) Acenaphthylene	8.81	152	897604	56.03710	ppb	100
53) 3-Nitroaniline	8.44	138	175561	57.84965	ppb #	91
54) Acenaphthene	9.01	154	611896	58.56862	ppb	99
55) 2,4-Dinitrophenol	9.04	184	99899	74.57043	ppb	95
56) 4-Nitrophenol	8.73	65	11763	55.98319	ppb	97
57) Dibenzofuran	9.22	168	855322	57.24529	ppb	97
58) 2,4-DNT	9.19	165	228249	62.34186	ppb	95
59) 2,3,4,6-Tetrachlorophenol	9.36	232	213127	70.25151	ppb	96
60) Diethyl phthalate	9.49	149	751933	57.39661	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.62	204	451003	63.17768	ppb	91
62) Fluorene	9.62	166	736977	60.38484	ppb	99
63) 4-Nitroaniline	8.92	138	140819	60.48849	ppb	92
66) 4,6-Dinitro-2-methylphenol	9.67	198	156873	73.14431	ppb #	100
67) Diphenyl amine	9.76	169	1187312	114.07623	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1187312	114.07623	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	686860	47.71640	ppb #	88
70) 4-Bromophenyl phenyl ether	10.18	248	278055	63.20614	ppb	92
71) Hexachlorobenzene	10.26	284	293057	65.51688	ppb	89
72) Atrazine	10.37	200	120585	29.71666	ppb	98
73) Pentachlorophenol	10.48	266	202915	73.70250	ppb	99
74) Phenanthrene	10.74	178	1064056	55.60127	ppb	100
75) Anthracene	10.80	178	1102656	55.34973	ppb	99
76) Carbazol	10.98	167	1002446	54.98698	ppb	99
77) Di-n-butylphthalate	11.39	149	1293400	55.55821	ppb	99
78) Fluoranthene	12.12	202	1390381	59.74797	ppb	97
80) Benzidine	12.27	184	327984	62.29909	ppb #	97
81) Pyrene	12.39	202	1454941	51.51107	ppb	99
83) Butyl benzylphthalate	13.14	149	625343	50.45292	ppb	92
84) 3,3'-Dichlorobenzidine	13.75	252	489294	63.52196	ppb	99
85) Benz (a) anthracene	13.79	228	1573209	53.96338	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	897195	50.52127	ppb	99
87) Chrysene	13.82	228	1459483	53.79028	ppb	99
88) Di-n-octylphthalate	14.57	149	1501198	50.96727	ppb	99
90) Benzo (b) fluoranthene	15.12	252	1670121	59.91730	ppb	98
91) Benzo (k) fluoranthene	15.16	252	1414380	52.19299	ppb #	98
92) Benzo (a) pyrene	15.59	252	1422482	57.57193	ppb	98
93) Indeno (1,2,3-cd) pyrene	17.61	276	1709815	58.05765	ppb	97
94) Dibenz (a,h) anthracene	17.66	278	1498368	59.59071	ppb	96
95) Benzo (g,h,i) perylene	18.20	276	1349242	57.45669	ppb #	94

(#) = qualifier out of range (m) = manual integration
 1015Y009.D Y1015NC.M Wed Oct 16 09:18:49 2019
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Quantitation Report

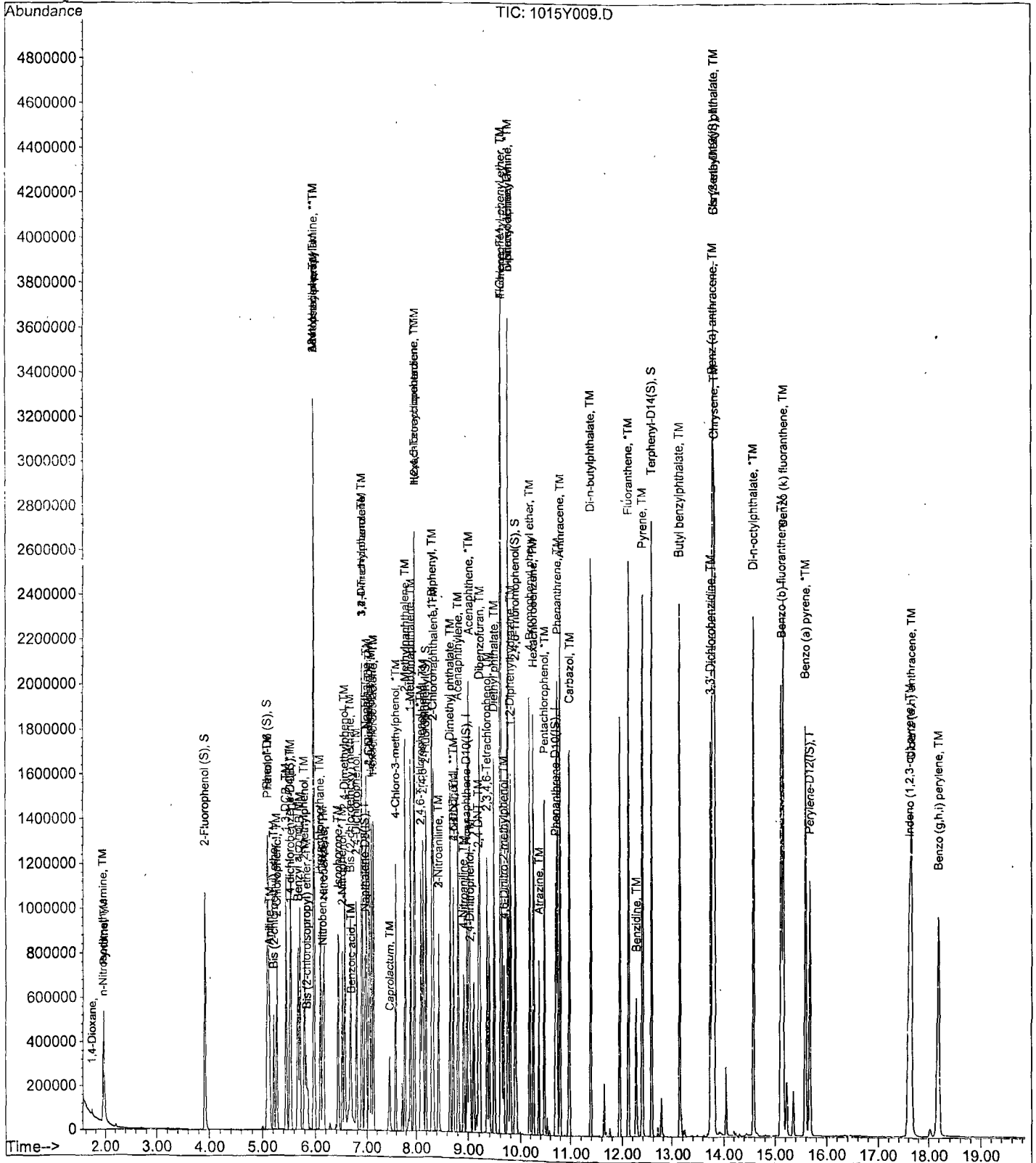
Data File : M:\YODA\DATA\Y191015\1015Y009.D
Acq On : 15 Oct 19 12:38
Sample : 60ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y010.D
 Acq On : 15 Oct 19 13:06
 Sample : 80ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	111703	40.00000	ppb	-0.02
21) Napthalene-D8 (IS)	6.96	136	429155	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	270188	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	601262	40.00000	ppb	-0.02
79) Chrysene-D12 (IS)	13.79	240	723233	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	735183	40.00000	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.93	112	578666	142.63009	ppb	0.00
Spiked Amount	200.000		Recovery	=	71.315%	
6) Phenol-D6 (S)	5.11	99	654851	139.20920	ppb	0.00
Spiked Amount	200.000		Recovery	=	69.605%	
22) Nitrobenzene-D5 (S)	6.15	82	372862	72.99785	ppb	0.00
Spiked Amount	100.000		Recovery	=	72.998%	
46) 2-Fluorobiphenyl (S)	8.20	172	821491	78.75274	ppb	0.00
Spiked Amount	100.000		Recovery	=	78.753%	
64) 2,4,6-Tribromophenol (S)	9.91	330	384571	218.90643	ppb	0.00
Spiked Amount	200.000		Recovery	=	109.453%	
82) Terphenyl-D14 (S)	12.57	244	1341453	74.77015	ppb	0.00
Spiked Amount	100.000		Recovery	=	74.770%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.73	58	6728	11.72641		85
3) n-Nitrosodimethylamine	1.95	42	130717	91.60776	ppb	92
4) Pyridine	1.98	79	290942	92.76464	ppb	91
7) Phenol	5.12	94	402834	65.04957	ppb	91
8) Aniline	5.13	93	425623	72.56255	ppb	96
9) Bis (2-chloroethyl) ether	5.22	63	162534	58.03336	ppb	94
10) 2-Chlorophenol	5.27	128	327024	70.84921	ppb	95
11) 1,3-DCB	5.45	146	389978	73.73314	ppb	98
12) 1,4-DCB	5.53	146	397846	74.86242	ppb	99
13) Benzyl alcohol	5.67	108	200024	68.05126	ppb	95
14) 1,2-DCB	5.71	146	367359	73.62631	ppb	97
15) 2-Methylphenol	5.79	107	261107	67.91838	ppb	98
16) Bis (2-chloroisopropyl) et	5.83	45	138107	47.55538	ppb	# 75
17) Acetophenone	5.98	105	502743	73.69147	ppb	# 79
18) 3&4-Methylphenol	5.98	107	715361	142.64073	ppb	98
19) n-Nitrosodi-n-propylamine	5.99	70	255340	64.30341	ppb	98
20) Hexachloroethane	6.09	117	163427	73.59429	ppb	98
23) Nitrobenzene	6.16	77	402185	69.06620	ppb	98
24) Isophorone	6.44	82	652355	67.16083	ppb	95
25) 2-Nitrophenol	6.52	139	184646	84.32269	ppb	86
26) 2,4-Dimethylphenol	6.56	122	283543	67.68376	ppb	95
27) Benzoic acid	6.71	105	309247	100.25171	ppb	97
28) Bis (2-chloroethoxy) metha	6.68	93	343275	65.56483	ppb	99
29) 2,4-Dichlorophenol	6.80	162	316165	79.97544	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	391870	83.30670	ppb	98
31) 3,4-Dimethylphenol	6.91	107	504559	75.93013	ppb	98
32) Napthalene	6.98	128	967988	73.80399	ppb	100
33) 4-Chloroaniline	7.04	127	354669	83.29864	ppb	99
34) 2,6-Dichlorophenol	7.05	162	303670	81.65705	ppb	98
35) Hexachloropropene	7.08	213	380213	94.36678	ppb	99
36) Hexachlorotadiene	7.13	225	302944	89.58820	ppb	99
37) Caprolactum	7.47	55	85511	61.36218	ppb	87

(#) = qualifier out of range (m) = manual integration
 1015Y010.D Y1015NC.M Wed Oct 16 09:18:53 2019

Data File : M:\YODA\DATA\Y191015\1015Y010.D
 Acq On : 15 Oct 19 13:06
 Sample : 80ug/ml 8270 10/11/19
 Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	344465	75.74091	ppb	96
39) 2-Methylnaphthalene	7.77	142	684060	76.69412	ppb	98
40) 1-Methylnaphthalene	7.89	142	697464	76.43363	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	420307	89.51872	ppb	98
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	472692	84.53803	ppb	99
44) 2,4,6-Trichlorophenol	8.10	196	282294	81.97731	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	309039	82.19569	ppb	89
47) 1,1'-Biphenyl	8.31	154	908035	73.93534	ppb	97
48) 2-Chloronaphthalene	8.34	162	753436	74.51151	ppb	98
49) 2-Nitroaniline	8.45	65	218862	71.68267	ppb	# 82
50) Dimethyl phthalate	8.66	163	946200	75.34180	ppb	100
51) 2,6-DNT	8.73	165	208668	80.88242	ppb	98
52) Acenaphthylene	8.81	152	1133579	71.92481	ppb	100
53) 3-Nitroaniline	8.45	138	224724	75.25896	ppb	96
54) Acenaphthene	9.02	154	798223	77.65111	ppb	100
55) 2,4-Dinitrophenol	9.04	184	133215	101.06359	ppb	93
56) 4-Nitrophenol	8.73	65	15538	75.15722	ppb	96
57) Dibenzofuran	9.22	168	1105633	75.20681	ppb	100
58) 2,4-DNT	9.20	165	296537	82.31630	ppb	84
59) 2,3,4,6-Tetrachlorophenol	9.36	232	275424	92.26883	ppb	96
60) Diethyl phthalate	9.49	149	947337	73.49329	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.62	204	600493	85.49254	ppb	92
62) Fluorene	9.62	166	966344	80.47144	ppb	98
63) 4-Nitroaniline	8.92	138	173705	75.83328	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.67	198	201735	96.84933	ppb	# 83
67) Diphenyl amine	9.76	169	1510750	149.45344	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1510750	149.45344	ppb	100
69) 1,2-Diphenylhydrazine	9.80	77	861986	61.65704	ppb	# 88
70) 4-Bromophenyl phenyl ether	10.18	248	360279	84.32387	ppb	91
71) Hexachlorobenzene	10.26	284	383099	88.18508	ppb	89
72) Atrazine	10.37	200	153810	39.02782	ppb	98
73) Pentachlorophenol	10.48	266	267913	100.19473	ppb	99
74) Phenanthrene	10.74	178	1359791	73.16029	ppb	100
75) Anthracene	10.80	178	1423012	73.54735	ppb	99
76) Carbazol	10.98	167	1262230	71.28865	ppb	99
77) Di-n-butylphthalate	11.39	149	1668800	73.80787	ppb	98
78) Fluoranthene	12.12	202	1771130	78.36511	ppb	# 97
80) Benzidine	12.26	184	400045	76.94631	ppb	99
81) Pyrene	12.39	202	1864418	66.84184	ppb	100
83) Butyl benzylphthalate	13.14	149	776840	63.46723	ppb	100
84) 3,3'-Dichlorobenzidine	13.74	252	608286	79.96718	ppb	99
85) Benz (a) anthracene	13.78	228	2026639	70.39455	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	1175720	67.04112	ppb	# 97
87) Chrysene	13.82	228	1825120	68.11553	ppb	100
88) Di-n-octylphthalate	14.57	149	1908063	65.59883	ppb	96
90) Benzo (b) fluoranthene	15.11	252	1945277	73.14030	ppb	98
91) Benzo (k) fluoranthene	15.16	252	1937814	74.94267	ppb	# 98
92) Benzo (a) pyrene	15.59	252	1795062	76.14027	ppb	# 98
93) Indeno (1,2,3-cd) pyrene	17.61	276	2152882	76.61283	ppb	97
94) Dibenz (a,h) anthracene	17.65	278	1899442	79.16936	ppb	97
95) Benzo (g,h,i) perylene	18.19	276	1698136	75.78692	ppb	# 95

Quantitation Report

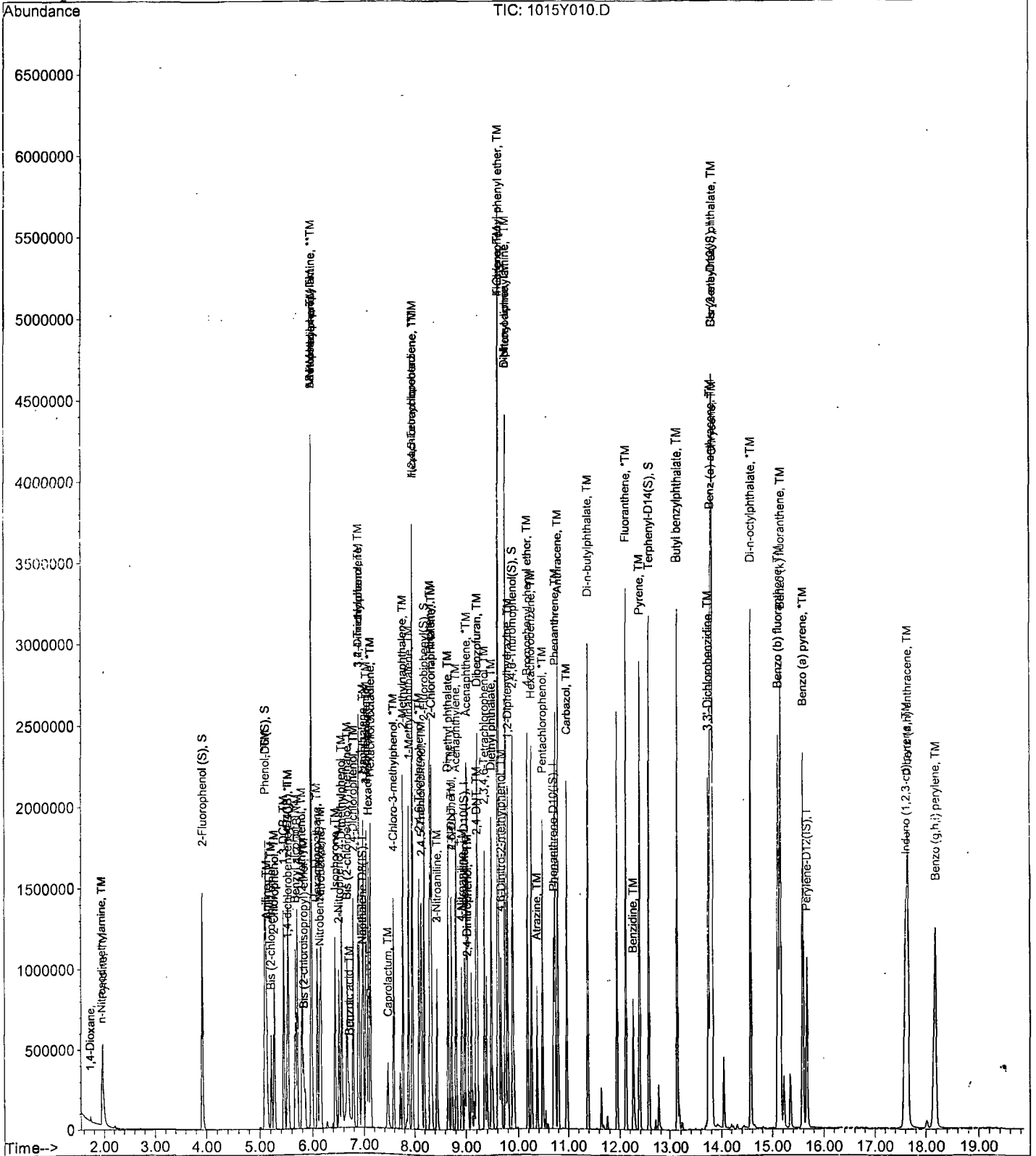
Data File : M:\YODA\DATA\Y191015\1015Y010.D
Acq On : 15 Oct 19 13:06
Sample : 80ug/ml 8270 10/11/19
Misc :

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

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y011.D Vial: 11
 Acq On : 15 Oct 19 13:35 Operator: MA,SS
 Sample : 100ug/ml 8270 10/11/19 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Oct 15 14:25 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	109795	40.00000	ppb	-0.01
21) Napthalene-D8 (IS)	6.96	136	410766	40.00000	ppb	-0.01
41) Acenaphthene-D10 (IS)	8.98	164	253641	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.71	188	580649	40.00000	ppb	-0.01
79) Chrysene-D12 (IS)	13.80	240	725891	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	720239	40.00000	ppb	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.93	112	726999	182.30530	ppb	0.00
Spiked Amount 200.000			Recovery =	91.153%		
6) Phenol-D6 (S)	5.11	99	820141	177.37656	ppb	0.00
Spiked Amount 200.000			Recovery =	88.689%		
22) Nitrobenzene-D5 (S)	6.15	82	466455	95.40944	ppb	0.00
Spiked Amount 100.000			Recovery =	95.409%		
46) 2-Fluorobiphenyl (S)	8.19	172	1030409	105.22504	ppb	-0.01
Spiked Amount 100.000			Recovery =	105.225%		
64) 2,4,6-Tribromophenol (S)	9.90	330	509442	308.90386	ppb	0.00
Spiked Amount 200.000			Recovery =	154.452%		
82) Terphenyl-D14 (S)	12.57	244	1733687	96.27872	ppb	0.00
Spiked Amount 100.000			Recovery =	96.279%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	7493	13.28670		99
3) n-Nitrosodimethylamine	1.95	42	167641	119.52609	ppb	95
4) Pyridine	1.97	79	368568	119.55726	ppb	95
7) Phenol	5.13	94	504559	82.89199	ppb	81
8) Aniline	5.14	93	524329	90.94391	ppb	90
9) Bis (2-chloroethyl) ether	5.22	63	200161	72.71018	ppb	91
10) 2-Chlorophenol	5.28	128	407096	89.72935	ppb	92
11) 1,3-DCB	5.45	146	485761	93.43887	ppb	99
12) 1,4-DCB	5.54	146	492802	94.34168	ppb	99
13) Benzyl alcohol	5.68	108	244365	84.58149	ppb	93
14) 1,2-DCB	5.71	146	457794	93.34579	ppb	96
15) 2-Methylphenol	5.80	107	323865	85.70676	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	170248	59.64146	ppb	# 80
17) Acetophenone	5.98	105	627454	93.56972	ppb	# 81
18) 3&4-Methylphenol	5.98	107	901335	182.84656	ppb	99
19) n-Nitrosodi-n-propylamine	6.01	70	315481	80.82963	ppb	94
20) Hexachloroethane	6.09	117	201014	92.09348	ppb	95
23) Nitrobenzene	6.17	77	501111	89.90696	ppb	98
24) Isophorone	6.45	82	804536	86.53608	ppb	95
25) 2-Nitrophenol	6.52	139	231743	110.56836	ppb	87
26) 2,4-Dimethylphenol	6.57	122	359191	89.57992	ppb	96
27) Benzoic acid	6.72	105	343099	116.20516	ppb	90
28) Bis (2-chloroethoxy) metha	6.68	93	426012	85.01005	ppb	99
29) 2,4-Dichlorophenol	6.80	162	389607	102.96492	ppb	98
30) 1,2,4-Trichlorobenzene	6.89	180	490729	108.99319	ppb	98
31) 3,4-Dimethylphenol	6.91	107	629322	98.94522	ppb	98
32) Napthalene	6.98	128	1209984	96.38494	ppb	100
33) 4-Chloroaniline	7.04	127	417247	102.38294	ppb	97
34) 2,6-Dichlorophenol	7.05	162	377504	106.05546	ppb	98
35) Hexachloropropene	7.09	213	475793	123.37578	ppb	98
36) Hexachlorobutadiene	7.12	225	382250	118.10156	ppb	99
37) Caprolactum	7.49	55	106952	80.18394	ppb	# 83

(#) = qualifier out of range (m) = manual integration
 1015Y011.D Y1015NC.M Wed Oct 16 09:18:57 2019
 348 of 866

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y011.D
 Acq On : 15 Oct 19 13:35
 Sample : 100ug/ml 8270 10/11/19
 Misc :

Vial: 11
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 13 10:12:12 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	436694	100.31880	ppb	95
39) 2-Methylnaphthalene	7.77	142	860456	100.78972	ppb	100
40) 1-Methylnaphthalene	7.88	142	881547	100.93177	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	534460	121.25763	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	596950	113.72565	ppb	99
44) 2,4,6-Trichlorophenol	8.10	196	361600	111.85800	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	385924	109.34127	ppb	91
47) 1,1'-Biphenyl	8.31	154	1142590	99.10294	ppb #	97
48) 2-Chloronaphthalene	8.34	162	945682	99.62508	ppb	97
49) 2-Nitroaniline	8.44	65	271008	94.55240	ppb	93
50) Dimethyl phthalate	8.66	163	1184183	100.44273	ppb	99
51) 2,6-DNT	8.73	165	264645	109.27192	ppb	98
52) Acenaphthylene	8.81	152	1431872	96.77824	ppb	100
53) 3-Nitroaniline	8.44	138	284025	101.32391	ppb #	91
54) Acenaphthene	9.02	154	1011864	104.85574	ppb	99
55) 2,4-Dinitrophenol	9.04	184	176478	142.61945	ppb	96
56) 4-Nitrophenol	8.73	65	19036	98.08394	ppb	98
57) Dibenzofuran	9.22	168	1393691	100.98556	ppb	97
58) 2,4-DNT	9.20	165	374594	110.76801	ppb	84
59) 2,3,4,6-Tetrachlorophenol	9.36	232	352312	125.72663	ppb	94
60) Diethyl phthalate	9.49	149	1200526	99.21135	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.61	204	763391	115.77476	ppb	97
62) Fluorene	9.62	166	1245231	110.46039	ppb	99
63) 4-Nitroaniline	8.92	138	214223	99.62314	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.68	198	260555	129.52836	ppb #	86
67) Diphenyl amine	9.76	169	1942972	199.03522	ppb	100
68) n-Nitrosodiphenylamine	9.76	169	1942972	199.03522	ppb	100
69) 1,2-Diphenylhydrazine	9.81	77	1062198	78.67523	ppb #	85
70) 4-Bromophenyl phenyl ether	10.19	248	469119	113.69587	ppb	98
71) Hexachlorobenzene	10.26	284	495882	118.19865	ppb #	83
72) Atrazine	10.37	200	193135	50.74588	ppb	99
73) Pentachlorophenol	10.48	266	343400	132.98463	ppb	98
74) Phenanthrene	10.73	178	1759829	98.04462	ppb	99
75) Anthracene	10.80	178	1824423	97.64142	ppb	99
76) Carbazol	10.97	167	1628686	95.25096	ppb	98
77) Di-n-butylphthalate	11.39	149	2132245	97.65300	ppb	97
78) Fluoranthene	12.13	202	2267953	103.90978	ppb #	96
80) Benzidine	12.27	184	515334	98.75852	ppb	99
81) Pyrene	12.39	202	2385033	85.19348	ppb	99
83) Butyl benzylphthalate	13.14	149	1020021	83.02978	ppb	97
84) 3,3'-Dichlorobenzidine	13.75	252	786538	103.02212	ppb	97
85) Benz (a) anthracene	13.78	228	2669873	92.39747	ppb	99
86) Bis (2-ethylhexyl) phthala	13.81	149	1513426	85.98157	ppb #	96
87) Chrysene	13.82	228	2369156	88.09580	ppb	100
88) Di-n-octylphthalate	14.58	149	2498094	85.56949	ppb	95
90) Benzo (b) fluoranthene	15.11	252	2862858	109.87373	ppb	99
91) Benzo (k) fluoranthene	15.16	252	2265102	89.41773	ppb	98
92) Benzo (a) pyrene	15.60	252	2373403	102.76028	ppb #	98
93) Indeno (1,2,3-cd) pyrene	17.61	276	2831365	102.84803	ppb	96
94) Dibenz (a,h) anthracene	17.67	278	2505141	106.58156	ppb #	95
95) Benzo (g,h,i) perylene	18.21	276	2227567	101.47788	ppb #	94

(#) = qualifier out of range (m) = manual integration
 1015Y011.D Y1015NC.M Wed Oct 16 09:18:58 2019
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Quantitation Report

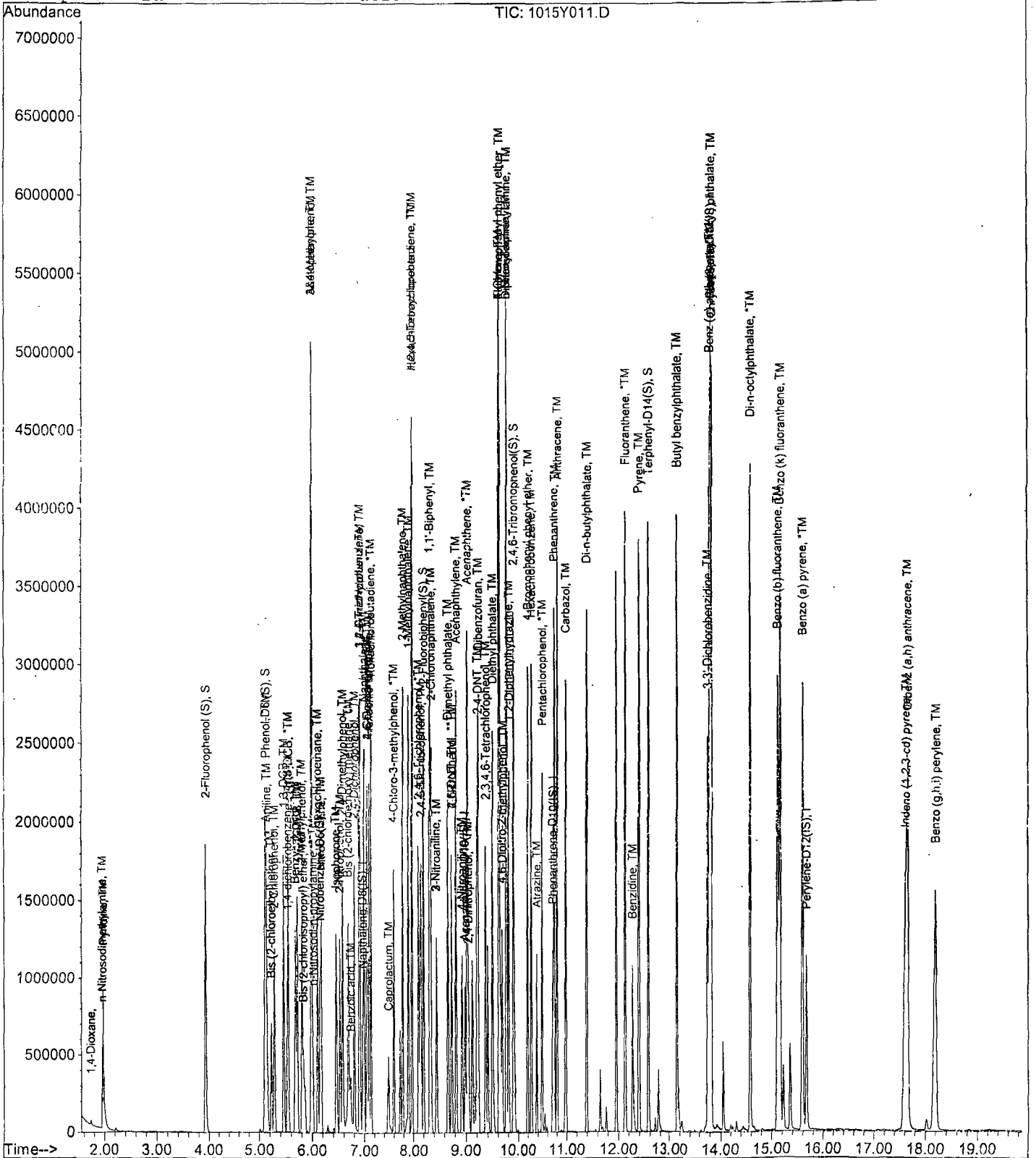
Data File : M:\YODA\DATA\Y191015\1015Y011.D
Acq On : 15 Oct 19 13:35
Sample : 100ug/ml 8270 10/11/19
Misc :

Vial: 11
Operator: MA, SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 14:25 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y013.D
 Acq On : 15 Oct 19 14:58
 Sample : 50ug/ml 8270 10/11/19
 Misc :

Vial: 13
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:17 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	114448	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	424154	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	260099	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	591906	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	697171	40.00000	ppb	-0.01
89) Perylene-D12 (IS)	15.67	264	739810	40.00000	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.92	112	346200	90.86669	ppb	0.00
Spiked Amount	200.000			Recovery =	45.434%	
6) Phenol-D6 (S)	5.09	99	394796	91.68678	ppb	0.00
Spiked Amount	200.000			Recovery =	45.844%	
22) Nitrobenzene-D5 (S)	6.14	82	227193	49.47889	ppb	0.00
Spiked Amount	100.000			Recovery =	49.479%	
46) 2-Fluorobiphenyl (S)	8.19	172	491198	48.66220	ppb	0.00
Spiked Amount	100.000			Recovery =	48.662%	
64) 2,4,6-Tribromophenol (S)	9.90	330	227910	104.00052	ppb	0.00
Spiked Amount	200.000			Recovery =	52.001%	
82) Terphenyl-D14 (S)	12.56	244	797449	47.65370	ppb	-0.01
Spiked Amount	100.000			Recovery =	47.654%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	3749	3.86751		96
3) n-Nitrosodimethylamine	1.95	42	86994	44.11514	ppb	81
4) Pyridine	1.97	79	171266	43.98939	ppb	94
7) Phenol	5.11	94	239503	42.42299	ppb	99
8) Aniline	5.13	93	253305	43.75054	ppb	97
9) Bis (2-chloroethyl) ether	5.21	63	93805	41.35712	ppb	92
10) 2-Chlorophenol	5.27	128	194531	42.91001	ppb	94
11) 1,3-DCB	5.45	146	229895	42.87495	ppb	99
12) 1,4-DCB	5.53	146	233371	42.87896	ppb	100
13) Benzyl alcohol	5.66	108	118587	43.13947	ppb	96
14) 1,2-DCB	5.70	146	216746	42.93767	ppb	99
15) 2-Methylphenol	5.78	107	154661	42.19998	ppb	97
16) Bis (2-chloroisopropyl) et	5.82	45	80212	40.73096	ppb	# 70
17) Acetophenone	5.97	105	296410	43.55956	ppb	90
18) 3&4-Methylphenol	5.97	107	421518	85.91746	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	151502	42.46262	ppb	93
20) Hexachloroethane	6.09	117	97669	44.00015	ppb	88
23) Nitrobenzene	6.16	77	243953	46.18522	ppb	99
24) Isophorone	6.43	82	387992	44.76228	ppb	93
25) 2-Nitrophenol	6.52	139	108918	47.03585	ppb	91
26) 2,4-Dimethylphenol	6.56	122	180117	45.80768	ppb	93
27) Benzoic acid	6.68	105	185609	54.52316	ppb	95
28) Bis (2-chloroethoxy) metha	6.67	93	204034	44.44457	ppb	98
29) 2,4-Dichlorophenol	6.79	162	184762	44.92124	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	229948	45.37465	ppb	99
31) 3,4-Dimethylphenol	6.90	107	300321	45.38586	ppb	99
32) Napthalene	6.98	128	569978	44.40849	ppb	100
33) 4-Chloroaniline	7.03	127	227456	46.43787	ppb	98
34) 2,6-Dichlorophenol	7.05	162	177064	44.76675	ppb	96
35) Hexachloropropene	7.08	213	226054	47.19737	ppb	100
36) Hexachlorotadiene	7.12	225	181909	46.52444	ppb	99
37) Caprolactum	7.45	55	50028	44.35942	ppb	# 82

(#) = qualifier out of range (m) = manual integration
 1015Y013.D Y1015NC.M Wed Oct 16 09:19:02 2019 351 of 886

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y013.D
 Acq On : 15 Oct 19 14:58
 Sample : 50ug/ml 8270 10/11/19
 Misc :

Vial: 13
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:17 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 14:34:28 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	202220	44.70235	ppb	94
39) 2-Methylnaphthalene	7.77	142	399889	44.77710	ppb	98
40) 1-Methylnaphthalene	7.88	142	411817	44.80745	ppb	99
42) Hexachlorocyclopentadiene	7.96	237	236629	47.25349	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	269429	45.79127	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	166034	45.38202	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	183514	46.30316	ppb	89
47) 1,1'-Biphenyl	8.31	154	530865	45.44358	ppb #	96
48) 2-Chloronaphthalene	8.33	162	436649	44.56966	ppb	100
49) 2-Nitroaniline	8.44	65	131883	48.54341	ppb	85
50) Dimethyl phthalate	8.65	163	554100	45.31841	ppb	99
51) 2,6-DNT	8.72	165	122711	47.61057	ppb	97
52) Acenaphthylene	8.81	152	672490	45.42977	ppb	99
53) 3-Nitroaniline	8.44	138	130952	46.63895	ppb #	96
54) Acenaphthene	9.01	154	461359	46.25562	ppb	99
55) 2,4-Dinitrophenol	9.03	184	76487	60.39498	ppb	93
56) 4-Nitrophenol	8.72	65	9519	49.51599	ppb #	90
57) Dibenzofuran	9.21	168	652615	45.55026	ppb	99
58) 2,4-DNT	9.19	165	174139	48.26540	ppb	80
59) 2,3,4,6-Tetrachlorophenol	9.35	232	160642	46.60077	ppb	98
60) Diethyl phthalate	9.48	149	572133	45.64375	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	336346	45.70502	ppb	99
62) Fluorene	9.61	166	542788	45.27721	ppb	100
63) 4-Nitroaniline	8.91	138	108873	47.29111	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.66	198	116519	49.50242	ppb #	90
67) Diphenyl amine	9.75	169	888039	90.68068	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	888039	90.68068	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	515780	44.54532	ppb	90
70) 4-Bromophenyl phenyl ether	10.18	248	208489	45.50538	ppb	96
71) Hexachlorobenzene	10.26	284	223295	46.04729	ppb #	79
72) Atrazine	10.37	200	95906	24.04582	ppb	95
73) Pentachlorophenol	10.48	266	154724	48.21138	ppb	98
74) Phenanthrene	10.73	178	817563	45.18736	ppb	100
75) Anthracene	10.80	178	847181	45.40760	ppb	99
76) Carbazol	10.97	167	754637	44.95851	ppb	99
77) Di-n-butylphthalate	11.38	149	983669	45.96795	ppb	100
78) Fluoranthene	12.11	202	1056106	46.16990	ppb	98
80) Benzidine	12.26	184	264028	47.97982	ppb	98
81) Pyrene	12.38	202	1092344	44.14663	ppb	99
83) Butyl benzylphthalate	13.14	149	468593	44.91450	ppb	94
84) 3,3'-Dichlorobenzidine	13.74	252	394787	46.95075	ppb	99
85) Benz (a) anthracene	13.78	228	1179236	44.13891	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	682577	44.79589	ppb #	97
87) Chrysene	13.82	228	1130633	45.56306	ppb	99
88) Di-n-octylphthalate	14.57	149	1119892	44.22505	ppb	95
90) Benzo (b) fluoranthene	15.11	252	1220669	45.62447	ppb #	98
91) Benzo (k) fluoranthene	15.15	252	1109680	45.22935	ppb #	98
92) Benzo (a) pyrene	15.59	252	1088189	46.85262	ppb #	97
93) Indeno (1,2,3-cd) pyrene	17.60	276	1315041	45.79064	ppb	97
94) Dibenz (a,h) anthracene	17.64	278	1155513	47.19750	ppb #	96
95) Benzo (g,h,i) perylene	18.18	276	1046529	45.67694	ppb #	95

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

Quantitation Report

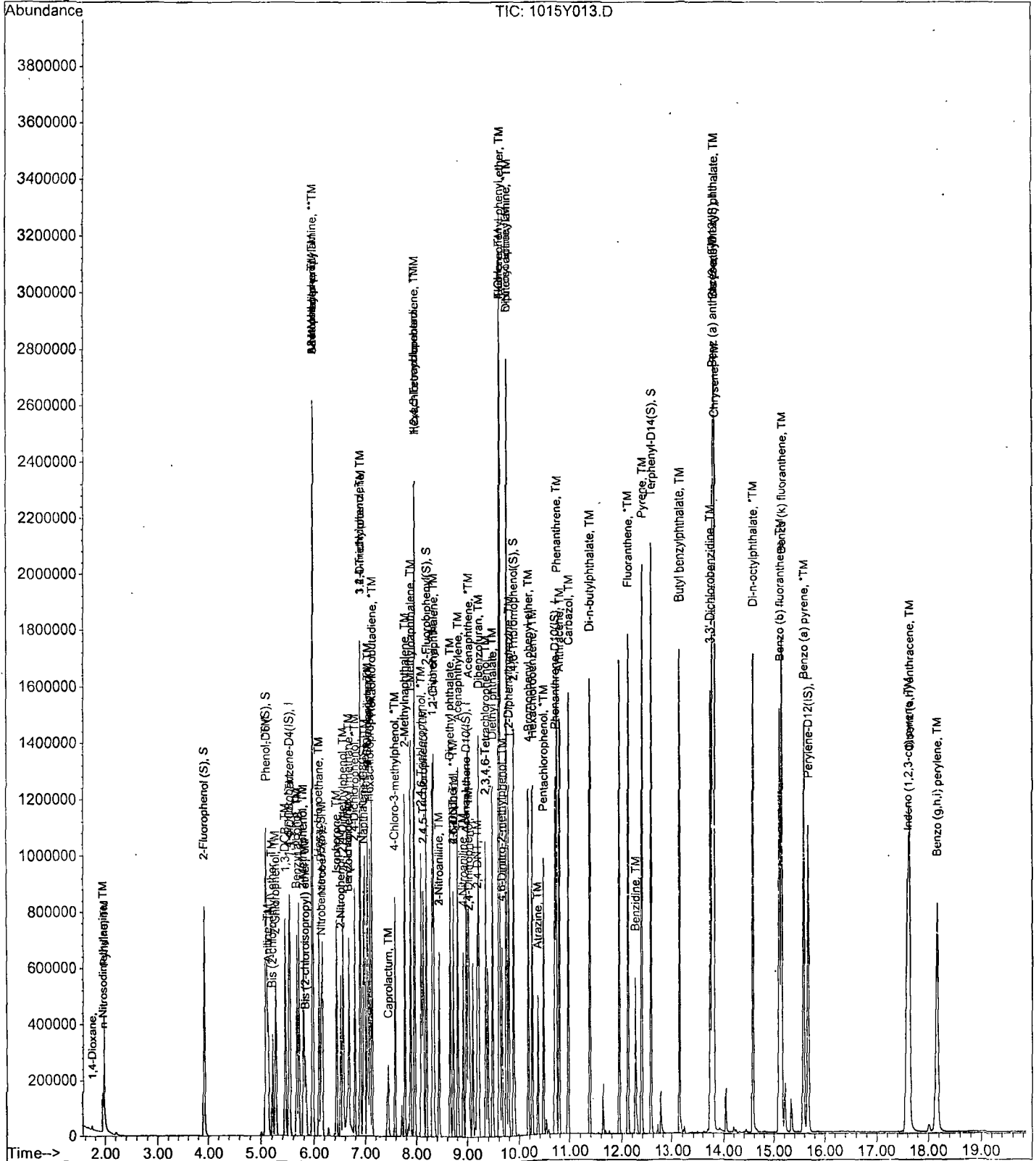
Data File : M:\YODA\DATA\Y191015\1015Y013.D
Acq On : 15 Oct 19 14:58
Sample : 50ug/ml 8270 10/11/19
Misc :

Vial: 13
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 15:17 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1015Y014.D

		Compound	MEAN	CCRF	%D	%Drift
1		1,4-Dioxane	0.3063	0.3452	13	
2	TM	n-Nitrosodimethylamine	0.6920	0.6480	6.4	TM
3	TM	Pyridine	1.349	1.345	0.27	TM
4	*TM	Phenol	1.959	1.752	11	*TM
5	TM	Aniline	2.012	1.774	12	TM
6	TM	Bis (2-chloroethyl) ether	0.7840	0.6810	13	TM
7	TM	2-Chlorophenol	1.576	1.460	7.3	TM
8	TM	1,3-DCB	1.864	1.691	9.3	TM
9	*TM	1,4-DCB	1.891	1.721	9.0	*TM
10	TM	Benzyl alcohol	0.9562	0.8410	12	TM
11	TM	1,2-DCB	1.755	1.588	9.5	TM
12	TM	2-Methylphenol	1.273	1.132	11	TM
13	TM	Bis (2-chloroisopropyl) ether	0.6792	0.5856	14	TM
14	TM	Acetophenone	2.374	2.148	9.5	TM
15	TM	3&4-Methylphenol	1.709	1.567	8.3	TM
16	**TM	n-Nitrosodi-n-propylamine	1.241	1.087	12	**TM
17	TM	Hexachloroethane	0.7740	0.7083	8.5	TM
18	TM	Nitrobenzene	0.4977	0.4581	8.0	TM
19	TM	Isophorone	0.8144	0.7420	8.9	TM
20	*TM	2-Nitrophenol	0.2184	0.2178	0.27	*TM
21	TM	2,4-Dimethylphenol	0.3697	0.3566	3.5	TM
22	TM	Benzoic acid	0.3267	0.3446	5.5	TM
23	TM	Bis (2-chloroethoxy) methane	0.4305	0.3821	11	TM
24	*TM	2,4-Dichlorophenol	0.3867	0.3645	5.8	*TM
25	TM	1,2,4-Trichlorobenzene	0.4775	0.4408	7.7	TM
26	TM	3,4-Dimethylphenol	0.6241	0.5830	6.6	TM
27	TM	Naphthalene	1.205	1.119	7.2	TM
28	TM	4-Chloroaniline	0.4604	0.4342	5.7	TM
29	TM	2,6-Dichlorophenol	0.3721	0.3586	3.6	TM
30	TM	Hexachloropropene	0.4531	0.4418	2.5	TM
31	*TM	Hexachlorobutadiene	0.3696	0.3442	6.9	*TM
32	TM	Caprolactum	0.1055	0.0969	8.2	TM
33	*TM	4-Chloro-3-methylphenol	0.4254	0.3995	6.1	*TM
34	TM	2-Methylnaphthalene	0.8399	0.7759	7.6	TM
35	TM	1-Methylnaphthalene	0.8649	0.8016	7.3	TM
36	**TM	Hexachlorocyclopentadiene	0.7712	0.7286	5.5	**TM
37	TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.8441	6.7	TM
38	*TM	2,4,6-Trichlorophenol	0.5618	0.5356	4.7	*TM
39	TM	2,4,5-Trichlorophenol	0.6095	0.5678	6.9	TM
40	TM	1,1'-Biphenyl	1.794	1.654	7.8	TM

Average

7.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1015Y014.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	2-Chloronaphthalene	1.503	1.351	10	TM
42	TM	2-Nitroaniline	0.4197	0.4017	4.3	TM
43	TM	Dimethyl phthalate	1.878	1.689	10	TM
44	TM	2,6-DNT	0.3984	0.3767	5.4	TM
45	TM	Acenaphthylene	2.269	2.065	9.0	TM
46	TM	3-Nitroaniline	0.4320	0.4104	5.0	TM
47	*TM	Acenaphthene	1.535	1.444	5.9	*TM
48	**TM	2,4-Dinitrophenol	0.2337	0.2488	6.4	**TM
49	**TM	4-Nitrophenol	0.0299	0.0279	6.5	**TM
50	TM	Dibenzofuran	2.200	2.001	9.0	TM
51	TM	2,4-DNT	0.5566	0.5362	3.6	TM
52	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.5487	3.4	TM
53	TM	Diethyl phthalate	1.924	1.740	9.6	TM
54	TM	4-Chlorophenyl phenyl ether	1.132	1.014	10	TM
55	TM	Fluorene	1.841	1.694	7.9	TM
56	TM	4-Nitroaniline	0.3535	0.3341	5.5	TM
57	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1687	4.6	TM
58	TM	Diphenyl amine	0.6596	0.6219	5.7	TM
59	*TM	n-Nitrosodiphenylamine	0.6596	0.6219	5.7	*TM
60	TM	1,2-Diphenylhydrazine	0.7783	0.7069	9.2	TM
61	TM	4-Bromophenyl phenyl ether	0.3089	0.2862	7.4	TM
62	TM	Hexachlorobenzene	0.3280	0.3100	5.5	TM
63	TM	Atrazine	0.2701	0.2395	11	TM
64	*TM	Pentachlorophenol	0.2172	0.2189	0.80	*TM
65	TM	Phenanthrene	1.218	1.112	8.7	TM
66	TM	Anthracene	1.257	1.142	9.2	TM
67	TM	Carbazol	1.130	1.045	7.6	TM
68	TM	Di-n-butylphthalate	1.440	1.342	6.8	TM
69	*TM	Fluoranthene	1.542	1.449	6.0	*TM
70	TM	Benzidine	0.3142	0.3398	8.1	TM
71	TM	Pyrene	1.410	1.275	9.5	TM
72	TM	Butyl benzylphthalate	0.5939	0.5393	9.2	TM
73	TM	3,3'-Dichlorobenzidine	0.4848	0.5045	4.1	TM
74	TM	Benz (a) anthracene	1.524	1.384	9.2	TM
75	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7763	11	TM
76	TM	Chrysene	1.422	1.296	8.9	TM
77	*TM	Di-n-octylphthalate	1.437	1.286	11	*TM
78	TM	Benzo (b) fluoranthene	1.453	1.287	11	TM
79	TM	Benzo (k) fluoranthene	1.314	1.300	1.0	TM
80	*TM	Benzo (a) pyrene	1.252	1.193	4.7	*TM

Average

7.2

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/15/19
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1015Y014.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Indeno (1,2,3-cd) pyrene	1.548	1.438	7.1	TM
82	TM	Dibenz (a,h) anthracene	1.320	1.249	5.4	TM
83	TM	Benzo (g,h,i) perylene	1.233	1.142	7.4	TM
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85						
86						
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120						

Average

6.6

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191015\1015Y014.D
 Acq On : 15 Oct 19 15:26
 Sample : SS 8270 10/11/19
 Misc :

Vial: 14
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	108800	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	413215	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.98	164	258052	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	576461	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	677525	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	709642	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	0.00	112	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
6) Phenol-D6 (S)	0.00	99	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
22) Nitrobenzene-D5 (S)	6.09	82	33101	7.38296	ppb	-0.05
Spiked Amount	100.000		Recovery	=	7.383%	
46) 2-Fluorobiphenyl (S)	8.13	172	338	0.03381	ppb	-0.06
Spiked Amount	100.000		Recovery	=	0.034%	
64) 2,4,6-Tribromophenol (S)	0.00	330	0	0.00000	ppb	
Spiked Amount	200.000		Recovery	=	0.000%	
82) Terphenyl-D14 (S)	12.56	244	429	0.02646	ppb	0.00
Spiked Amount	100.000		Recovery	=	0.026%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.73	58	4695	5.63591		97
3) n-Nitrosodimethylamine	1.95	42	88130	46.81859	ppb	85
4) Pyridine	1.97	79	182983	49.86584	ppb	97
7) Phenol	5.10	94	238322	44.73052	ppb	99
8) Aniline	5.14	93	241265	44.09205	ppb	98
9) Bis (2-chloroethyl) ether	5.21	63	92610	43.42828	ppb	99
10) 2-Chlorophenol	5.27	128	198561	46.32704	ppb	94
11) 1,3-DCB	5.45	146	229971	45.36089	ppb	99
12) 1,4-DCB	5.53	146	233999	45.48512	ppb	99
13) Benzyl alcohol	5.66	108	114371	43.97451	ppb	99
14) 1,2-DCB	5.70	146	216007	45.26167	ppb	100
15) 2-Methylphenol	5.79	107	153971	44.47739	ppb	98
16) Bis (2-chloroisopropyl) et	5.82	45	79642	43.10683	ppb	94
17) Acetophenone	5.97	105	292140	45.24897	ppb	93
18) 3&4-Methylphenol	5.97	107	426236	91.69300	ppb	100
19) n-Nitrosodi-n-propylamine	5.97	70	147849	43.81167	ppb	96
20) Hexachloroethane	6.09	117	96332	45.75897	ppb	93
23) Nitrobenzene	6.16	77	236616	46.02261	ppb	98
24) Isophorone	6.43	82	383237	45.55498	ppb	99
25) 2-Nitrophenol	6.52	139	112506	49.86279	ppb	99
26) 2,4-Dimethylphenol	6.56	122	184211	48.23981	ppb	95
27) Benzoic acid	6.68	105	177981	52.74143	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	197348	44.37091	ppb	98
29) 2,4-Dichlorophenol	6.79	162	188249	47.12455	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	227685	46.15796	ppb	98
31) 3,4-Dimethylphenol	6.90	107	301144	46.71007	ppb	99
32) Napthalene	6.98	128	577733	46.40319	ppb	99
33) 4-Chloroaniline	7.03	127	224265	47.15332	ppb	100
34) 2,6-Dichlorophenol	7.05	162	185210	48.17631	ppb	98
35) Hexachloropropene	7.08	213	228214	48.75337	ppb	100
36) Hexachlorobutadiene	7.12	225	177794	46.56268	ppb	99
37) Caprolactum	7.45	55	50037	45.90613	ppb	97

Data File : M:\YODA\DATA\Y191015\1015Y014.D
 Acq On : 15 Oct 19 15:26
 Sample : SS 8270 10/11/19
 Misc :

Vial: 14
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.58	107	206361	46.96055	ppb	98
39) 2-Methylnaphthalene	7.77	142	400760	46.18688	ppb	100
40) 1-Methylnaphthalene	7.88	142	414048	46.34241	ppb	100
42) Hexachlorocyclopentadiene	7.96	237	235014	47.23897	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.97	216	272284	46.66838	ppb	99
44) 2,4,6-Trichlorophenol	8.09	196	172764	47.66746	ppb	99
45) 2,4,5-Trichlorophenol	8.13	196	183146	46.57486	ppb	96
47) 1,1'-Biphenyl	8.31	154	533550	46.09555	ppb	100
48) 2-Chloronaphthalene	8.33	162	435932	44.96842	ppb	99
49) 2-Nitroaniline	8.44	65	129581	47.86079	ppb	97
50) Dimethyl phthalate	8.65	163	544763	44.96165	ppb	100
51) 2,6-DNT	8.72	165	121521	47.28407	ppb	99
52) Acenaphthylene	8.81	152	666168	45.50048	ppb	100
53) 3-Nitroaniline	8.44	138	132366	47.49970	ppb	99
54) Acenaphthene	9.01	154	465935	47.04690	ppb	99
55) 2,4-Dinitrophenol	9.03	184	80240	53.21247	ppb	98
56) 4-Nitrophenol	8.72	65	9001	46.73609	ppb	# 90
57) Dibenzofuran	9.21	168	645535	45.48850	ppb	98
58) 2,4-DNT	9.19	165	172975	48.17578	ppb	97
59) 2,3,4,6-Tetrachlorophenol	9.35	232	176990	51.69430	ppb	98
60) Diethyl phthalate	9.48	149	561141	45.20340	ppb	100
61) 4-Chlorophenyl phenyl ethe	9.61	204	327010	44.78022	ppb	97
62) Fluorene	9.61	166	546522	46.02770	ppb	100
63) 4-Nitroaniline	8.91	138	107766	47.25499	ppb	99
66) 4,6-Dinitro-2-methylphenol	9.66	198	121596	52.28900	ppb	90
67) Diphenyl amine	9.75	169	896206	94.28296	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	896206	94.28296	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	509368	45.41192	ppb	97
70) 4-Bromophenyl phenyl ether	10.18	248	206252	46.32452	ppb	94
71) Hexachlorobenzene	10.26	284	223396	47.25745	ppb	97
72) Atrazine	10.36	200	86302	22.17448	ppb	97
73) Pentachlorophenol	10.47	266	157761	50.39759	ppb	100
74) Phenanthrene	10.73	178	801561	45.67299	ppb	99
75) Anthracene	10.79	178	822779	45.40428	ppb	99
76) Carbazol	10.97	167	752964	46.22223	ppb	99
77) Di-n-butylphthalate	11.38	149	966666	46.59428	ppb	99
78) Fluoranthene	12.11	202	1044411	46.98429	ppb	100
80) Benzidine	12.26	184	287765	54.06904	ppb	99
81) Pyrene	12.38	202	1079829	45.22813	ppb	99
83) Butyl benzylphthalate	13.13	149	456745	45.40211	ppb	83
84) 3,3'-Dichlorobenzidine	13.74	252	427230	52.02874	ppb	99
85) Benz (a) anthracene	13.78	228	1172107	45.39357	ppb	100
86) Bis (2-ethylhexyl) phthala	13.80	149	657488	44.70556	ppb	96
87) Chrysene	13.82	228	1097481	45.57331	ppb	100
88) Di-n-octylphthalate	14.57	149	1088938	44.72842	ppb	95
90) Benzo (b) fluoranthene	15.10	252	1141613	44.28417	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1153389	49.47521	ppb	99
92) Benzo (a) pyrene	15.59	252	1058543	47.64716	ppb	100
93) Indeno (1,2,3-cd) pyrene	17.59	276	1275701	46.46121	ppb	100
94) Dibenz (a,h) anthracene	17.64	278	1107644	47.28480	ppb	100
95) Benzo (g,h,i) perylene	18.18	276	1013081	46.31348	ppb	99

(#) = qualifier out of range (m) = manual integration
 1015Y014.D Y1015NC.M Wed Oct 16 09:13:58 of 2019

Quantitation Report

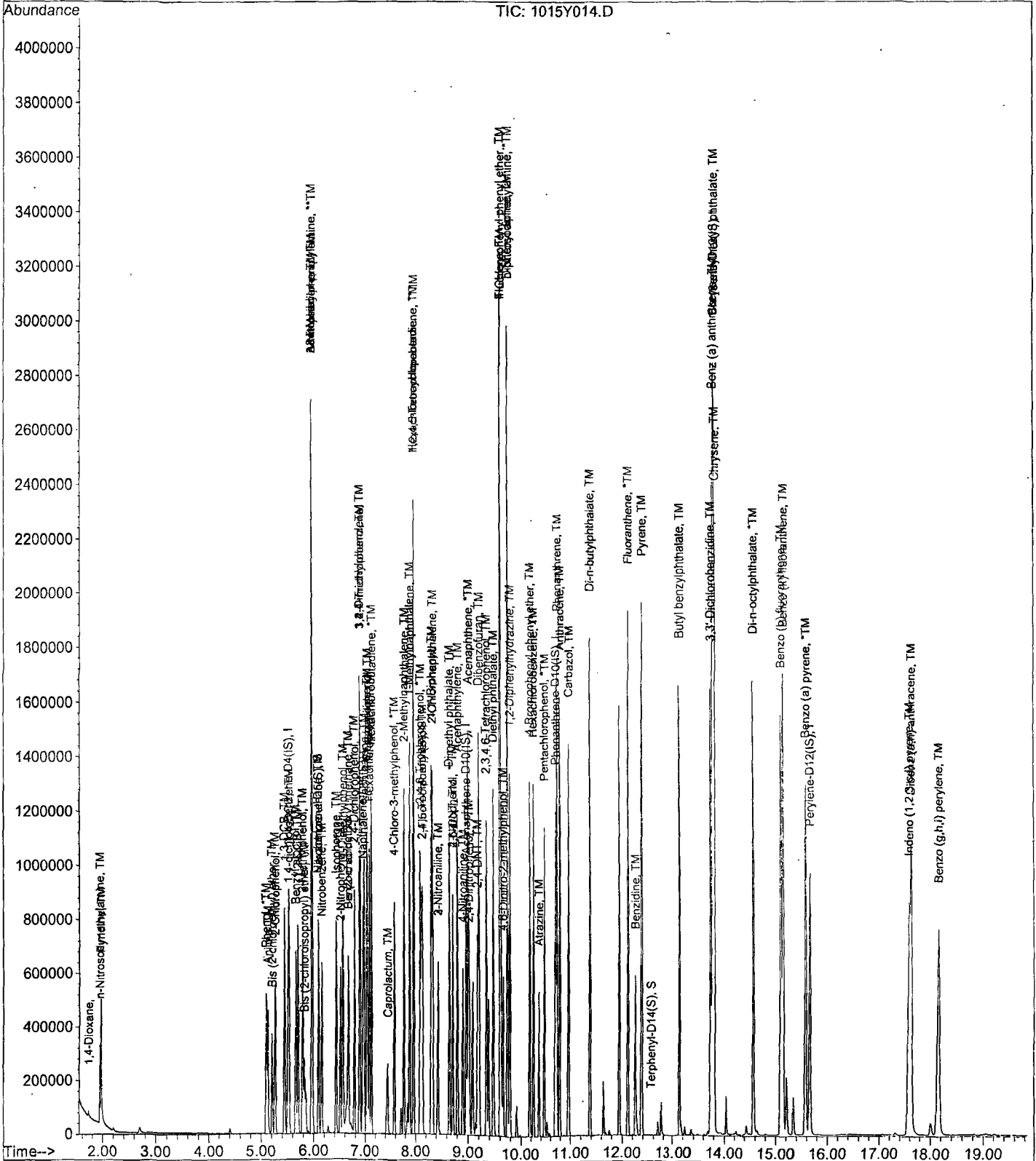
Data File : M:\YODA\DATA\Y191015\1015Y014.D
Acq On : 15 Oct 19 15:26
Sample : SS 8270 10/11/19
Misc :

Vial: 14
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Oct 15 15:31 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1030Y195.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	1,4-Dioxane	0.3063	0.4034	32	
3	TM n-Nitrosodimethylamine	0.6920	0.5539	20	TM
4	TM Pyridine	1.349	1.278	5.2	TM
5	S 2-Fluorophenol (S)	1.319	1.333	1.1	S
6	S Phenol-D6 (S)	1.495	1.516	1.4	S
7	*TM Phenol	1.959	1.738	11	*TM
8	TM Aniline	2.012	1.722	14	TM
9	TM Bis (2-chloroethyl) ether	0.7840	0.7149	8.8	TM
10	TM 2-Chlorophenol	1.576	1.466	7.0	TM
11	TM 1,3-DCB	1.864	1.690	9.3	TM
12	*TM 1,4-DCB	1.891	1.738	8.1	*TM
13	TM Benzyl alcohol	0.9562	0.8525	11	TM
14	TM 1,2-DCB	1.755	1.608	8.4	TM
15	TM 2-Methylphenol	1.273	1.133	11	TM
16	TM Bis (2-chloroisopropyl) ether	0.6792	0.7143	5.2	TM
17	TM Acetophenone	2.374	2.025	15	TM
18	TM 3&4-Methylphenol	1.709	1.493	13	TM
19	**TM n-Nitrosodi-n-propylamine	1.241	1.029	17	**TM
20	TM Hexachloroethane	0.7740	0.6674	14	TM
21	I Napthalene-D8(IS)	ISTD			I
22	S Nitrobenzene-D5(S)	0.4340	0.4148	4.4	S
23	TM Nitrobenzene	0.4977	0.4245	15	TM
24	TM Isophorone	0.8144	0.6948	15	TM
25	*TM 2-Nitrophenol	0.2184	0.2169	0.69	*TM
26	TM 2,4-Dimethylphenol	0.3697	0.3271	12	TM
27	TM Benzoic acid	0.3267	0.3159	3.3	TM
28	TM Bis (2-chloroethoxy) methane	0.4305	0.3932	8.7	TM
29	*TM 2,4-Dichlorophenol	0.3867	0.3493	9.7	*TM
30	TM 1,2,4-Trichlorobenzene	0.4775	0.4279	10	TM
31	TM 3,4-Dimethylphenol	0.6241	0.5321	15	TM
32	TM Napthalene	1.205	1.093	9.3	TM
33	TM 4-Chloroaniline	0.4604	0.4221	8.3	TM
34	TM 2,6-Dichlorophenol	0.3721	0.3305	11	TM
35	TM Hexachloropropene	0.4531	0.3889	14	TM
36	*TM Hexachlorobutadiene	0.3696	0.3163	14	*TM
37	TM Caprolactum	0.1055	0.1023	3.0	TM
38	*TM 4-Chloro-3-methylphenol	0.4254	0.3697	13	*TM
39	TM 2-Methylnapthalene	0.8399	0.7627	9.2	TM
40	TM 1-Methylnapthalene	0.8649	0.7801	9.8	TM

* NT
11/5/19

Average

10.5

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y195.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TM	Hexachlorocyclopentadiene	0.7712	0.6503	16	**TM
43	TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.8206	9.3	TM
44	*TM	2,4,6-Trichlorophenol	0.5618	0.4966	12	*TM
45	TM	2,4,5-Trichlorophenol	0.6095	0.5625	7.7	TM
46	S	2-Fluorobiphenyl(S)	1.550	1.589	2.5	S
47	TM	1,1'-Biphenyl	1.794	1.617	9.9	TM
48	TM	2-Chloronaphthalene	1.503	1.351	10	TM
49	TM	2-Nitroaniline	0.4197	0.3680	12	TM
50	TM	Dimethyl phthalate	1.878	1.660	12	TM
51	TM	2,6-DNT	0.3984	0.3874	2.8	TM
52	TM	Acenaphthylene	2.269	2.050	9.6	TM
53	TM	3-Nitroaniline	0.4320	0.4280	0.91	TM
54	*TM	Acenaphthene	1.535	1.406	8.4	*TM
55	**TM	2,4-Dinitrophenol	0.2337	0.2030	13	**TM
56	**TM	4-Nitrophenol	0.0299	0.0239	20	**TM
57	TM	Dibenzofuran	2.200	1.953	11	TM
58	TM	2,4-DNT	0.5566	0.5391	3.1	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.4972	6.3	TM
60	TM	Diethyl phthalate	1.924	1.668	13	TM
61	TM	4-Chlorophenyl phenyl ether	1.132	0.9903	13	TM
62	TM	Fluorene	1.841	1.624	12	TM
63	TM	4-Nitroaniline	0.3535	0.3482	1.5	TM
64	S	2,4,6-Tribromophenol(S)	0.3401	0.3890	14	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1626	0.79	TM
67	TM	Diphenyl amine	0.6596	0.6022	8.7	TM
68	*TM	n-Nitrosodiphenylamine	0.6596	0.6022	8.7	*TM
69	TM	1,2-Diphenylhydrazine	0.7783	0.6444	17	TM
70	TM	4-Bromophenyl phenyl ether	0.3089	0.2941	4.8	TM
71	TM	Hexachlorobenzene	0.3280	0.3208	2.2	TM
72	TM	Atrazine	0.2701	0.2327	14	TM
73	*TM	Pentachlorophenol	0.2172	0.2100	3.3	*TM
74	TM	Phenanthrene	1.218	1.101	9.6	TM
75	TM	Anthracene	1.257	1.146	8.8	TM
76	TM	Carbazol	1.130	1.040	8.0	TM
77	TM	Di-n-butylphthalate	1.440	1.309	9.1	TM
78	*TM	Fluoranthene	1.542	1.413	8.4	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3142	0.3028	3.6	TM

Average

8.8

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 10:52
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y195.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.410	1.229	13	TM
82	S	Terphenyl-D14(S)	0.9572	0.9948	3.9	S
83	TM	Butyl benzylphthalate	0.5939	0.5201	12	TM
84	TM	3,3'-Dichlorobenzidine	0.4848	0.5086	4.9	TM
85	TM	Benz (a) anthracene	1.524	1.325	13	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7484	14	TM
87	TM	Chrysene	1.422	1.254	12	TM
88	*TM	Di-n-octylphthalate	1.437	1.263	12	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.453	1.308	10.0	TM
91	TM	Benzo (k) fluoranthene	1.314	1.153	12	TM
92	*TM	Benzo (a) pyrene	1.252	1.164	7.1	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.548	1.407	9.1	TM
94	TM	Dibenz (a,h) anthracene	1.320	1.234	6.6	TM
95	TM	Benzo (g,h,i) perylene	1.233	1.119	9.2	TM
96						
97						
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120						

Average

9.9

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y195.D
 Acq On : 5 Nov 19 10:52
 Sample : 50ug/ml 8270 10/24/19 (3)
 Misc :

Vial: 95
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	174147	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	676049	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	414742	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	907962	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	1087986	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1195404	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.95	112	580379	101.05242	ppb	0.03
Spiked Amount 200.000			Recovery =	50.526%		
6) Phenol-D6 (S)	5.11	99	660084	101.44826	ppb	0.02
Spiked Amount 200.000			Recovery =	50.724%		
22) Nitrobenzene-D5 (S)	6.14	82	350557	47.79096	ppb	0.00
Spiked Amount 100.000			Recovery =	47.791%		
46) 2-Fluorobiphenyl (S)	8.19	172	823670	51.25801	ppb	0.00
Spiked Amount 100.000			Recovery =	51.258%		
64) 2,4,6-Tribromophenol (S)	9.90	330	403387	114.39449	ppb	0.00
Spiked Amount 200.000			Recovery =	57.197%		
82) Terphenyl-D14 (S)	12.56	244	1352886	51.96419	ppb	0.00
Spiked Amount 100.000			Recovery =	51.964%		

Target Compounds

						Qvalue
3) n-Nitrosodimethylamine	1.98	42	120566	40.01587	ppb	98
4) Pyridine	2.00	79	278287	47.38035	ppb	97
7) Phenol	5.13	94	378310	44.36092	ppb	98
8) Aniline	5.13	93	374783	42.79163	ppb	# 81
9) Bis (2-chloroethyl) ether	5.22	63	155623	45.59334	ppb	97
10) 2-Chlorophenol	5.28	128	319074	46.50984	ppb	93
11) 1,3-DCB	5.45	146	367844	45.32994	ppb	99
12) 1,4-DCB	5.53	146	378335	45.94569	ppb	98
13) Benzyl alcohol	5.67	108	185573	44.57720	ppb	84
14) 1,2-DCB	5.71	146	350010	45.82011	ppb	95
15) 2-Methylphenol	5.80	107	246612	44.50692	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	155493	52.58086	ppb	88
17) Acetophenone	5.97	105	440813	42.65648	ppb	100
18) 3&4-Methylphenol	5.97	107	649888	87.34488	ppb	96
19) n-Nitrosodi-n-propylamine	5.97	70	224016	41.47280	ppb	95
20) Hexachloroethane	6.09	117	145282	43.11519	ppb	96
23) Nitrobenzene	6.16	77	358736	42.64813	ppb	97
24) Isophorone	6.43	82	587138	42.65860	ppb	97
25) 2-Nitrophenol	6.52	139	183305	49.65616	ppb	86
26) 2,4-Dimethylphenol	6.56	122	276429	44.24574	ppb	89
27) Benzoic acid	6.68	105	266993	48.35885	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	332313	45.66788	ppb	98
29) 2,4-Dichlorophenol	6.80	162	295180	45.16472	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	361560	44.80129	ppb	99
31) 3,4-Dimethylphenol	6.90	107	449661	42.63040	ppb	98
32) Naphthalene	6.98	128	923738	45.34897	ppb	100
33) 4-Chloroaniline	7.04	127	356693	45.83986	ppb	# 90
34) 2,6-Dichlorophenol	7.05	162	279332	44.41071	ppb	98
35) Hexachloropropene	7.07	213	328626	42.91036	ppb	99
36) Hexachlorobutadiene	7.12	225	267292	42.78630	ppb	99
37) Caprolactum	7.46	55	86467	48.48727	ppb	93
38) 4-Chloro-3-methylphenol	7.58	107	312455	43.46012	ppb	93

(#) = qualifier out of range (m) = manual integration
 1030Y195.D Y1015NC.M Tue Nov 05 10:31:40 2019

Data File : M:\YODA\DATA\Y191030\1030Y195.D
 Acq On : 5 Nov 19 10:52
 Sample : 50ug/ml 8270 10/24/19 (3)
 Misc :

Vial: 95
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 2-Methylnaphthalene	7.76	142	644559	45.40408	ppb	100
40) 1-Methylnaphthalene	7.88	142	659221	45.09795	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	337141	42.16455	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	425433	45.36919	ppb	98
44) 2,4,6-Trichlorophenol	8.09	196	257432	44.19371	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	291603	46.13976	ppb	98
47) 1,1'-Biphenyl	8.30	154	838325	45.06356	ppb	# 98
48) 2-Chloronaphthalene	8.33	162	700464	44.95768	ppb	97
49) 2-Nitroaniline	8.44	65	190758	43.83798	ppb	94
50) Dimethyl phthalate	8.65	163	860514	44.18978	ppb	100
51) 2,6-DNT	8.72	165	200825	48.61951	ppb	88
52) Acenaphthylene	8.81	152	1063014	45.17524	ppb	99
53) 3-Nitroaniline	8.44	138	221889	49.54267	ppb	# 93
54) Acenaphthene	9.01	154	729006	45.80006	ppb	99
55) 2,4-Dinitrophenol	9.03	184	105226	43.41849	ppb	96
56) 4-Nitrophenol	8.72	65	12389m	40.02460	ppb	98
57) Dibenzofuran	9.21	168	1012702	44.40099	ppb	93
58) 2,4-DNT	9.19	165	279490	48.43295	ppb	94
59) 2,3,4,6-Tetrachlorophenol	9.36	232	257770	46.84417	ppb	# 89
60) Diethyl phthalate	9.48	149	864491	43.33001	ppb	96
61) 4-Chlorophenyl phenyl ethe	9.61	204	513405	43.74360	ppb	88
62) Fluorene	9.61	166	841862	44.11454	ppb	100
63) 4-Nitroaniline	8.91	138	180535	49.25570	ppb	100
66) 4,6-Dinitro-2-methylphenol	9.67	198	184576	50.39280	ppb	# 75
67) Diphenyl amine	9.75	169	1366984	91.30426	ppb	99
68) n-Nitrosodiphenylamine	9.75	169	1366984	91.30426	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	731375	41.39812	ppb	# 86
70) 4-Bromophenyl phenyl ether	10.17	248	333785	47.59724	ppb	96
71) Hexachlorobenzene	10.26	284	364135	48.90571	ppb	91
72) Atrazine	10.36	200	132071	21.54479	ppb	97
73) Pentachlorophenol	10.48	266	238331	48.33847	ppb	100
74) Phenanthrene	10.73	178	1249066	45.18669	ppb	99
75) Anthracene	10.79	178	1301131	45.58656	ppb	98
76) Carbazol	10.97	167	1179966	45.98841	ppb	98
77) Di-n-butylphthalate	11.38	149	1485361	45.45591	ppb	96
78) Fluoranthene	12.11	202	1603419	45.79631	ppb	99
80) Benzidine	12.26	184	411805	48.18416	ppb	99
81) Pyrene	12.38	202	1670888	43.58159	ppb	100
83) Butyl benzylphthalate	13.13	149	707362	43.78708	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	691739	52.45970	ppb	99
85) Benz (a) anthracene	13.78	228	1801805	43.45472	ppb	100
86) Bis (2-ethylhexyl) phthala	13.78	149	1017792	43.09579	ppb	97
87) Chrysene	13.82	228	1705851	44.11199	ppb	99
88) Di-n-octylphthalate	14.56	149	1717997	43.94453	ppb	99
90) Benzo (b) fluoranthene	15.11	252	1954720	45.01308	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1722265	43.85674	ppb	99
92) Benzo (a) pyrene	15.59	252	1739127	46.47125	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.60	276	2102136	45.44928	ppb	99
94) Dibenz (a,h) anthracene	17.64	278	1843639	46.72205	ppb	99
95) Benzo (g,h,i) perylene	18.18	276	1672567	45.39117	ppb	99

Quantitation Report

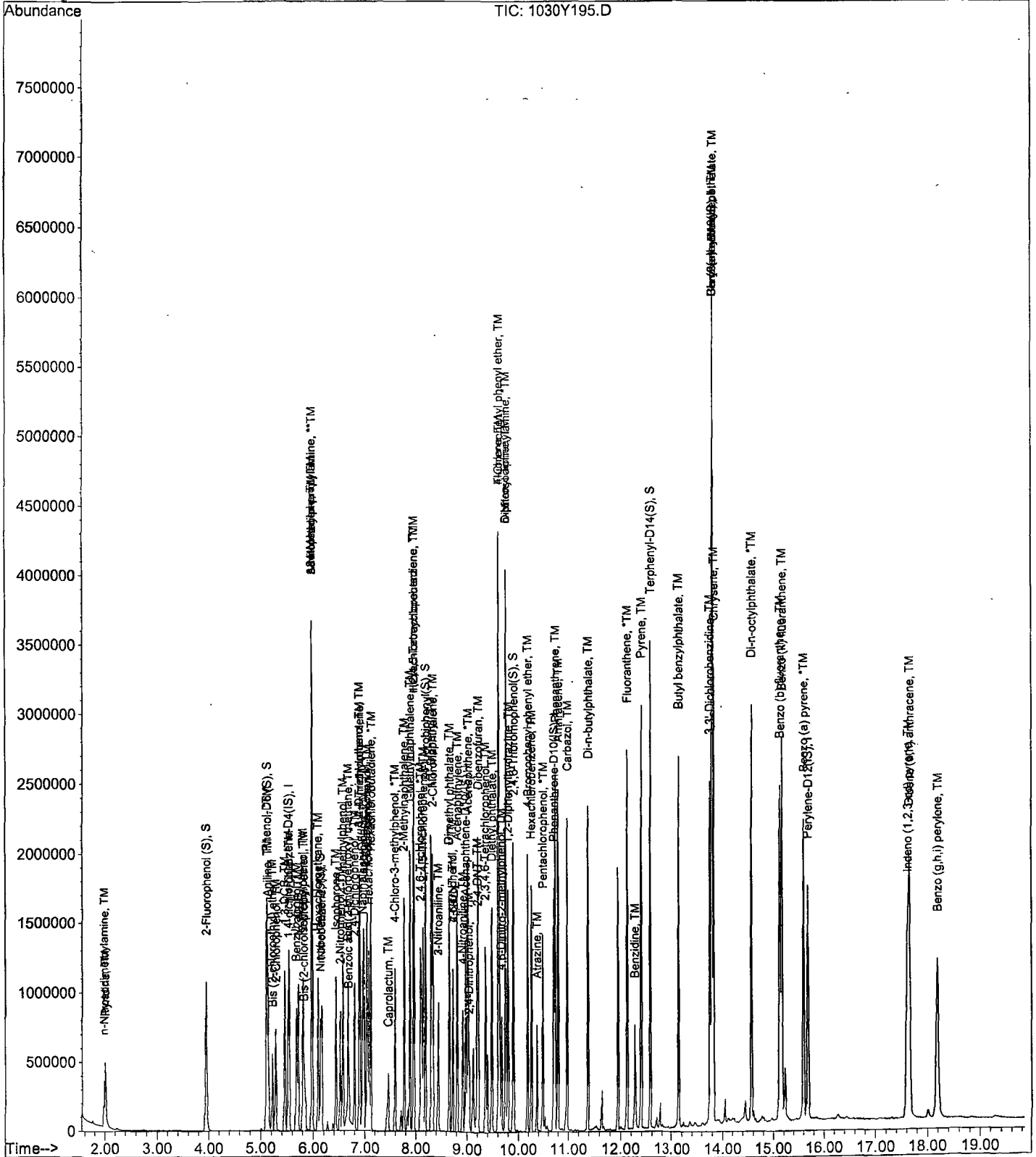
Data File : M:\YODA\DATA\Y191030\1030Y195.D
Acq On : 5 Nov 19 10:52
Sample : 50ug/ml 8270 10/24/19 (3)
Misc :

Vial: 95
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Nov 5 10:00 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

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

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Initial Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2		1,4-Dioxane	0.3063	0.2575	16	
3	TM	n-Nitrosodimethylamine	0.6920	0.5270	24	TM
4	TM	Pyridine	1.349	1.119	17	TM
5	S	2-Fluorophenol (S)	1.319	1.302	1.3	S
6	S	Phenol-D6 (S)	1.495	1.473	1.5	S
7	*TM	Phenol	1.959	1.649	16	*TM
8	TM	Aniline	2.012	1.636	19	TM
9	TM	Bis (2-chloroethyl) ether	0.7840	0.6917	12	TM
10	TM	2-Chlorophenol	1.576	1.404	11	TM
11	TM	1,3-DCB	1.864	1.576	15	TM
12	*TM	1,4-DCB	1.891	1.591	16	*TM
13	TM	Benzyl alcohol	0.9562	0.8095	15	TM
14	TM	1,2-DCB	1.755	1.501	14	TM
15	TM	2-Methylphenol	1.273	1.071	16	TM
16	TM	Bis (2-chloroisopropyl) ether	0.6792	0.7012	3.2	TM
17	TM	Acetophenone	2.374	1.894	20	TM
18	TM	3&4-Methylphenol	1.709	1.395	18	TM
19	**TM	n-Nitrosodi-n-propylamine	1.241	0.9838	21	**TM
20	TM	Hexachloroethane	0.7740	0.6132	21	TM
21	I	Napthalene-D8(IS)	ISTD			I
22	S	Nitrobenzene-D5(S)	0.4340	0.4036	7.0	S
23	TM	Nitrobenzene	0.4977	0.4082	18	TM
24	TM	Isophorone	0.8144	0.6724	17	TM
25	*TM	2-Nitrophenol	0.2184	0.2089	4.4	*TM
26	TM	2,4-Dimethylphenol	0.3697	0.3085	17	TM
27	TM	Benzoic acid	0.3267	0.3300	1.0	TM
28	TM	Bis (2-chloroethoxy) methane	0.4305	0.3773	12	TM
29	*TM	2,4-Dichlorophenol	0.3867	0.3331	14	*TM
30	TM	1,2,4-Trichlorobenzene	0.4775	0.3962	17	TM
31	TM	3,4-Dimethylphenol	0.6241	0.4968	20	TM
32	TM	Napthalene	1.205	1.032	14	TM
33	TM	4-Chloroaniline	0.4604	0.3950	14	TM
34	TM	2,6-Dichlorophenol	0.3721	0.3194	14	TM
35	TM	Hexachloropropene	0.4531	0.3445	24	TM
36	*TM	Hexachlorobutadiene	0.3696	0.2977	19	*TM
37	TM	Caprolactum	0.1055	0.1003	4.9	TM
38	*TM	4-Chloro-3-methylphenol	0.4254	0.3515	17	*TM
39	TM	2-Methylnapthalene	0.8399	0.7173	15	TM
40	TM	1-Methylnapthalene	0.8649	0.7308	16	TM

Average

14.3

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
41	I	Acenaphthene-D10(IS)	ISTD			I
42	**TM	Hexachlorocyclopentadiene	0.7712	0.5675	26	**TM
43	TM	1,2,4,5-Tetrachlorobenzene	0.9044	0.7751	14	TM
44	*TM	2,4,6-Trichlorophenol	0.5618	0.4877	13	*TM
45	TM	2,4,5-Trichlorophenol	0.6095	0.5401	11	TM
46	S	2-Fluorobiphenyl(S)	1.550	1.561	0.69	S
47	TM	1,1'-Biphenyl	1.794	1.567	13	TM
48	TM	2-Chloronaphthalene	1.503	1.304	13	TM
49	TM	2-Nitroaniline	0.4197	0.3568	15	TM
50	TM	Dimethyl phthalate	1.878	1.630	13	TM
51	TM	2,6-DNT	0.3984	0.3759	5.6	TM
52	TM	Acenaphthylene	2.269	1.997	12	TM
53	TM	3-Nitroaniline	0.4320	0.4132	4.3	TM
54	*TM	Acenaphthene	1.535	1.371	11	*TM
55	**TM	2,4-Dinitrophenol	0.2337	0.2397	2.6	**TM
56	**TM	4-Nitrophenol	0.0299	0.0231	23	**TM
57	TM	Dibenzofuran	2.200	1.882	14	TM
58	TM	2,4-DNT	0.5566	0.5202	6.5	TM
59	TM	2,3,4,6-Tetrachlorophenol	0.5307	0.4657	12	TM
60	TM	Diethyl phthalate	1.924	1.615	16	TM
61	TM	4-Chlorophenyl phenyl ether	1.132	0.9328	18	TM
62	TM	Fluorene	1.841	1.548	16	TM
63	TM	4-Nitroaniline	0.3535	0.3432	2.9	TM
64	S	2,4,6-Tribromophenol(S)	0.3401	0.3758	10	S
65	I	Phenanthrene-D10(IS)	ISTD			I
66	TM	4,6-Dinitro-2-methylphenol	0.1614	0.1586	1.7	TM
67	TM	Diphenyl amine	0.6596	0.5778	12	TM
68	*TM	n-Nitrosodiphenylamine	0.6596	0.5778	12	*TM
69	TM	1,2-Diphenylhydrazine	0.7783	0.6274	19	TM
70	TM	4-Bromophenyl phenyl ether	0.3089	0.2811	9.0	TM
71	TM	Hexachlorobenzene	0.3280	0.3009	8.3	TM
72	TM	Atrazine	0.2701	0.2085	23	TM
73	*TM	Pentachlorophenol	0.2172	0.1931	11	*TM
74	TM	Phenanthrene	1.218	1.052	14	TM
75	TM	Anthracene	1.257	1.113	11	TM
76	TM	Carbazol	1.130	0.9970	12	TM
77	TM	Di-n-butylphthalate	1.440	1.253	13	TM
78	*TM	Fluoranthene	1.542	1.361	12	*TM
79	I	Chrysene-D12(IS)	ISTD			I
80	TM	Benzidine	0.3142	0.2594	17	TM

Average

12.1

Semi-Volatile Analysis by GC-MS
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 5 Nov 19 22:45
Instrument: Yoda
Cal. Date: 10/15/19
Data File: 1030Y220.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	Pyrene	1.410	1.212	14	TM
82	S	Terphenyl-D14(S)	0.9572	0.9941	3.9	S
83	TM	Butyl benzylphthalate	0.5939	0.5028	15	TM
84	TM	3,3'-Dichlorobenzidine	0.4848	0.5011	3.4	TM
85	TM	Benz (a) anthracene	1.524	1.295	15	TM
86	TM	Bis (2-ethylhexyl) phthalate	0.8683	0.7292	16	TM
87	TM	Chrysene	1.422	1.216	14	TM
88	*TM	Di-n-octylphthalate	1.437	1.241	14	*TM
89	I	Perylene-D12(IS)	ISTD			I
90	TM	Benzo (b) fluoranthene	1.453	1.316	9.5	TM
91	TM	Benzo (k) fluoranthene	1.314	1.047	20	TM
92	*TM	Benzo (a) pyrene	1.252	1.120	11	*TM
93	TM	Indeno (1,2,3-cd) pyrene	1.548	1.324	14	TM
94	TM	Dibenz (a,h) anthracene	1.320	1.159	12	TM
95	TM	Benzo (g,h,i) perylene	1.233	1.058	14	TM
96						
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120						

Average

12.6

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y220.D Vial: 20
 Acq On : 5 Nov 19 22:45 Operator: MA,SS
 Sample : 50ug/ml 8270 10/24/19 (2) Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Nov 6 7:46 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	165446	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	635668	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	379878	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	830093	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	972758	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1066687	40.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol (S)	3.95	112	538375	98.66875	ppb	0.03
Spiked Amount	200.000					
				Recovery =	49.335%	
6) Phenol-D6 (S)	5.11	99	609164	98.54608	ppb	0.02
Spiked Amount	200.000					
				Recovery =	49.273%	
22) Nitrobenzene-D5 (S)	6.14	82	320684	46.49564	ppb	0.00
Spiked Amount	100.000					
				Recovery =	46.496%	
46) 2-Fluorobiphenyl (S)	8.19	172	741000	50.34549	ppb	0.00
Spiked Amount	100.000					
				Recovery =	50.345%	
64) 2,4,6-Tribromophenol (S)	9.90	330	356856	110.48672	ppb	0.00
Spiked Amount	200.000					
				Recovery =	55.244%	
82) Terphenyl-D14 (S)	12.56	244	1208729	51.92666	ppb	0.00
Spiked Amount	100.000					
				Recovery =	51.927%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	1.97	42	108978	38.07203	ppb	97
4) Pyridine	2.00	79	231369	41.46391	ppb	99
7) Phenol	5.13	94	341024	42.09179	ppb	98
8) Aniline	5.13	93	338306	40.65822	ppb	90
9) Bis (2-chloroethyl) ether	5.22	63	143040	44.11079	ppb	94
10) 2-Chlorophenol	5.28	128	290345	44.54793	ppb	94
11) 1,3-DCB	5.45	146	325895	42.27259	ppb	99
12) 1,4-DCB	5.53	146	329014	42.05740	ppb	99
13) Benzyl alcohol	5.67	108	167418	42.33113	ppb	85
14) 1,2-DCB	5.71	146	310439	42.77713	ppb	97
15) 2-Methylphenol	5.80	107	221595	42.09524	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	145004	51.61270	ppb	83
17) Acetophenone	5.97	105	391786	39.90610	ppb	97
18) 3&4-Methylphenol	5.97	107	576953	81.62048	ppb	99
19) n-Nitrosodi-n-propylamine	5.97	70	203466	39.64934	ppb	92
20) Hexachloroethane	6.09	117	126818	39.61495	ppb	99
23) Nitrobenzene	6.16	77	324331	41.00732	ppb	96
24) Isophorone	6.43	82	534252	41.28196	ppb	96
25) 2-Nitrophenol	6.52	139	165984	47.82036	ppb	86
26) 2,4-Dimethylphenol	6.56	122	245126	41.72776	ppb	92
27) Benzoic acid	6.68	105	262197	50.50701	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	299828	43.82113	ppb	98
29) 2,4-Dichlorophenol	6.80	162	264703	43.07439	ppb	97
30) 1,2,4-Trichlorobenzene	6.89	180	314804	41.48568	ppb	99
31) 3,4-Dimethylphenol	6.90	107	394754	39.80234	ppb	96
32) Napthalene	6.98	128	819948	42.81074	ppb	99
33) 4-Chloroaniline	7.03	127	313884	42.90083	ppb	96
34) 2,6-Dichlorophenol	7.05	162	253758	42.90763	ppb	99
35) Hexachloropropene	7.08	213	273710	38.01007	ppb	100
36) Hexachlorobutadiene	7.12	225	236546	40.27006	ppb	99
37) Caprolactum	7.44	55	79706	47.53529	ppb	93
38) 4-Chloro-3-methylphenol	7.58	107	279315	41.31859	ppb	92

(#) = qualifier out of range (m) = manual integration
 1030Y220.D Y1015NC.M Wed Nov 06 07:53:26 2019
 369 of 866

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y220.D
 Acq On : 5 Nov 19 22:45
 Sample : 50ug/ml 8270 10/24/19 (2)
 Misc :

Vial: 20
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Nov 6 7:46 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 2-Methylnaphthalene	7.76	142	569920	42.69666	ppb	99
40) 1-Methylnaphthalene	7.88	142	580665	42.24733	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	269477	36.79522	ppb	100
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	368032	42.84985	ppb	96
44) 2,4,6-Trichlorophenol	8.09	196	231593	43.40675	ppb	98
45) 2,4,5-Trichlorophenol	8.14	196	256454	44.30234	ppb	96
47) 1,1'-Biphenyl	8.30	154	744040	43.66598	ppb	# 99
48) 2-Chloronaphthalene	8.33	162	619237	43.39192	ppb	95
49) 2-Nitroaniline	8.44	65	169407	42.50431	ppb	91
50) Dimethyl phthalate	8.65	163	773812	43.38436	ppb	98
51) 2,6-DNT	8.72	165	178496	47.17969	ppb	84
52) Acenaphthylene	8.81	152	948168	43.99270	ppb	99
53) 3-Nitroaniline	8.44	138	196196	47.82639	ppb	# 93
54) Acenaphthene	9.01	154	651094	44.65936	ppb	98
55) 2,4-Dinitrophenol	9.03	184	113839	51.28338	ppb	98
56) 4-Nitrophenol	8.72	65	10978	38.72112	ppb	97
57) Dibenzofuran	9.21	168	893623	42.77591	ppb	93
58) 2,4-DNT	9.19	165	247008	46.73255	ppb	91
59) 2,3,4,6-Tetrachlorophenol	9.35	232	221130	43.87375	ppb	97
60) Diethyl phthalate	9.47	149	766758	41.95855	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	442922	41.20174	ppb	88
62) Fluorene	9.61	166	734875	42.04247	ppb	100
63) 4-Nitroaniline	8.91	138	162956	48.53995	ppb	96
66) 4,6-Dinitro-2-methylphenol	9.66	198	164585	49.15011	ppb	91
67) Diphenyl amine	9.75	169	1199022	87.59830	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	1199022	87.59830	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	651007	40.30576	ppb	# 85
70) 4-Bromophenyl phenyl ether	10.17	248	291683	45.49535	ppb	95
71) Hexachlorobenzene	10.26	284	312243	45.87021	ppb	90
72) Atrazine	10.36	200	108181	19.30309	ppb	98
73) Pentachlorophenol	10.48	266	200332	44.44302	ppb	99
74) Phenanthrene	10.73	178	1091571	43.19347	ppb	99
75) Anthracene	10.79	178	1155082	44.26593	ppb	99
76) Carbazol	10.97	167	1034468	44.09983	ppb	99
77) Di-n-butylphthalate	11.38	149	1300257	43.52397	ppb	# 96
78) Fluoranthene	12.11	202	1412278	44.12093	ppb	99
80) Benzidine	12.26	184	315396	41.27503	ppb	98
81) Pyrene	12.38	202	1473717	42.99206	ppb	100
83) Butyl benzylphthalate	13.13	149	611418	42.33124	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	609361	51.68645	ppb	98
85) Benz (a) anthracene	13.78	228	1574442	42.46922	ppb	99
86) Bis (2-ethylhexyl) phthala	13.78	149	886636	41.98940	ppb	97
87) Chrysene	13.81	228	1478783	42.76993	ppb	99
88) Di-n-octylphthalate	14.56	149	1508592	43.15914	ppb	99
90) Benzo (b) fluoranthene	15.11	252	1754045	45.26605	ppb	99
91) Benzo (k) fluoranthene	15.15	252	1396130	39.84189	ppb	100
92) Benzo (a) pyrene	15.59	252	1493225	44.71529	ppb	100
93) Indeno (1,2,3-cd) pyrene	17.59	276	1765685	42.78161	ppb	98
94) Dibenz (a,h) anthracene	17.64	278	1545935	43.90510	ppb	98
95) Benzo (g,h,i) perylene	18.17	276	1410478	42.89749	ppb	98

Quantitation Report

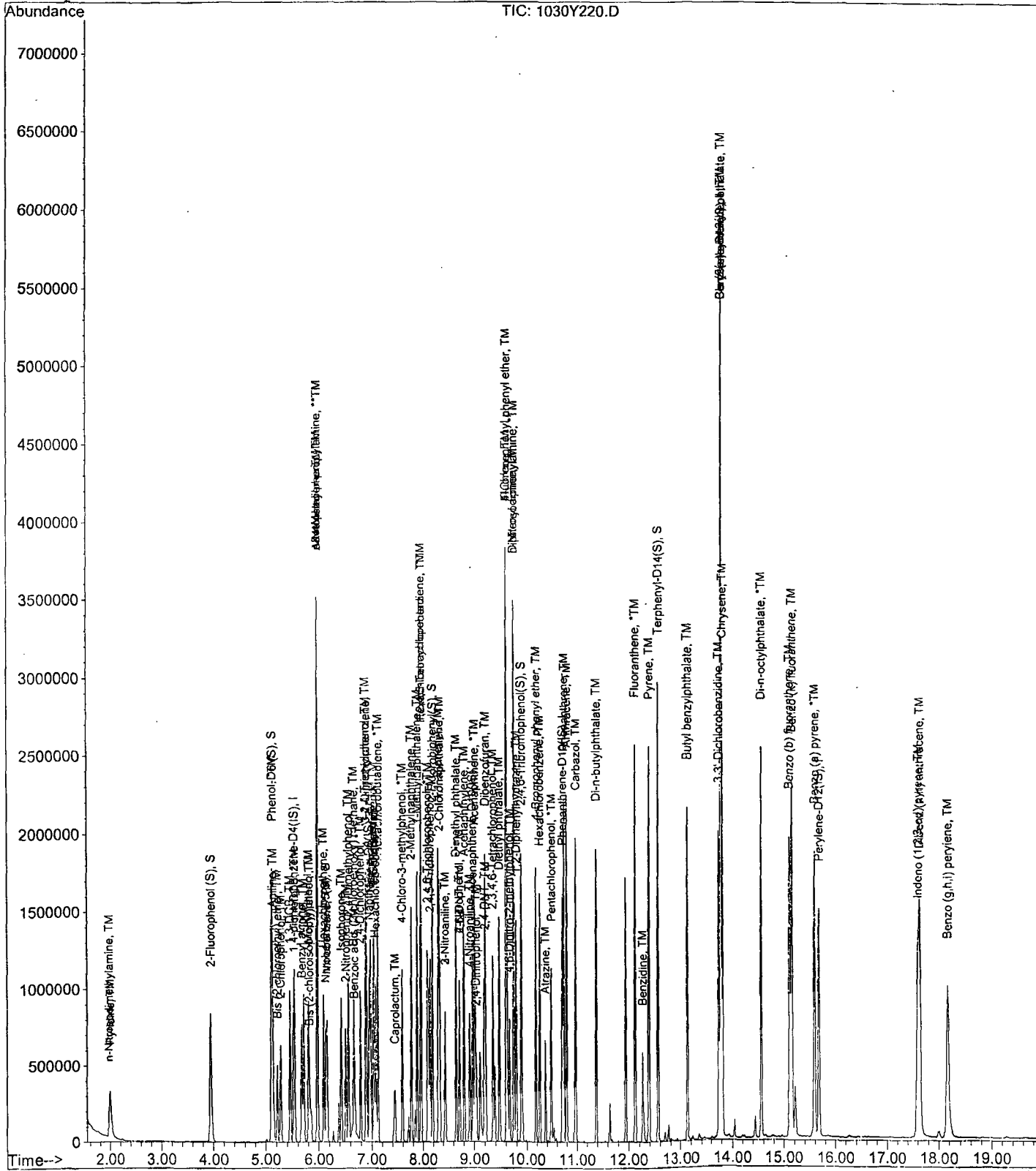
Data File : M:\YODA\DATA\Y191030\1030Y220.D
Acq On : 5 Nov 19 22:45
Sample : 50ug/ml 8270 10/24/19 (2)
Misc :

Vial: 20
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Nov 6 7:46 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Oct 15 15:29:17 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\YODA\DATA\Y191030\1030Y217.D Vial: 17
 Acq On : 5 Nov 19 21:20 Operator: MA,SS
 Sample : BA01829W11 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 8 9:18 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	147570	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	577999	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	441037	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.69	188	969012	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1044210	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1161541	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	944911	242.69110	ppb	0.04
Spiked Amount	250.000		Recovery	=	97.076%	
6) Phenol-D6 (S)	5.11	99	1133752	257.03450	ppb	0.02
Spiked Amount	250.000		Recovery	=	102.814%	
22) Nitrobenzene-D5 (S)	6.14	82	598780	119.34810	ppb	0.00
Spiked Amount	125.000		Recovery	=	95.478%	
46) 2-Fluorobiphenyl (S)	8.19	172	1394064	101.97746	ppb	0.00
Spiked Amount	125.000		Recovery	=	81.582%	
64) 2,4,6-Tribromophenol (S)	9.89	330	683816	227.94784	ppb	0.00
Spiked Amount	250.000		Recovery	=	91.179%	
82) Terphenyl-D14 (S)	12.56	244	2283648	114.23984	ppb	0.00
Spiked Amount	125.000		Recovery	=	91.392%	

Target Compounds Qvalue

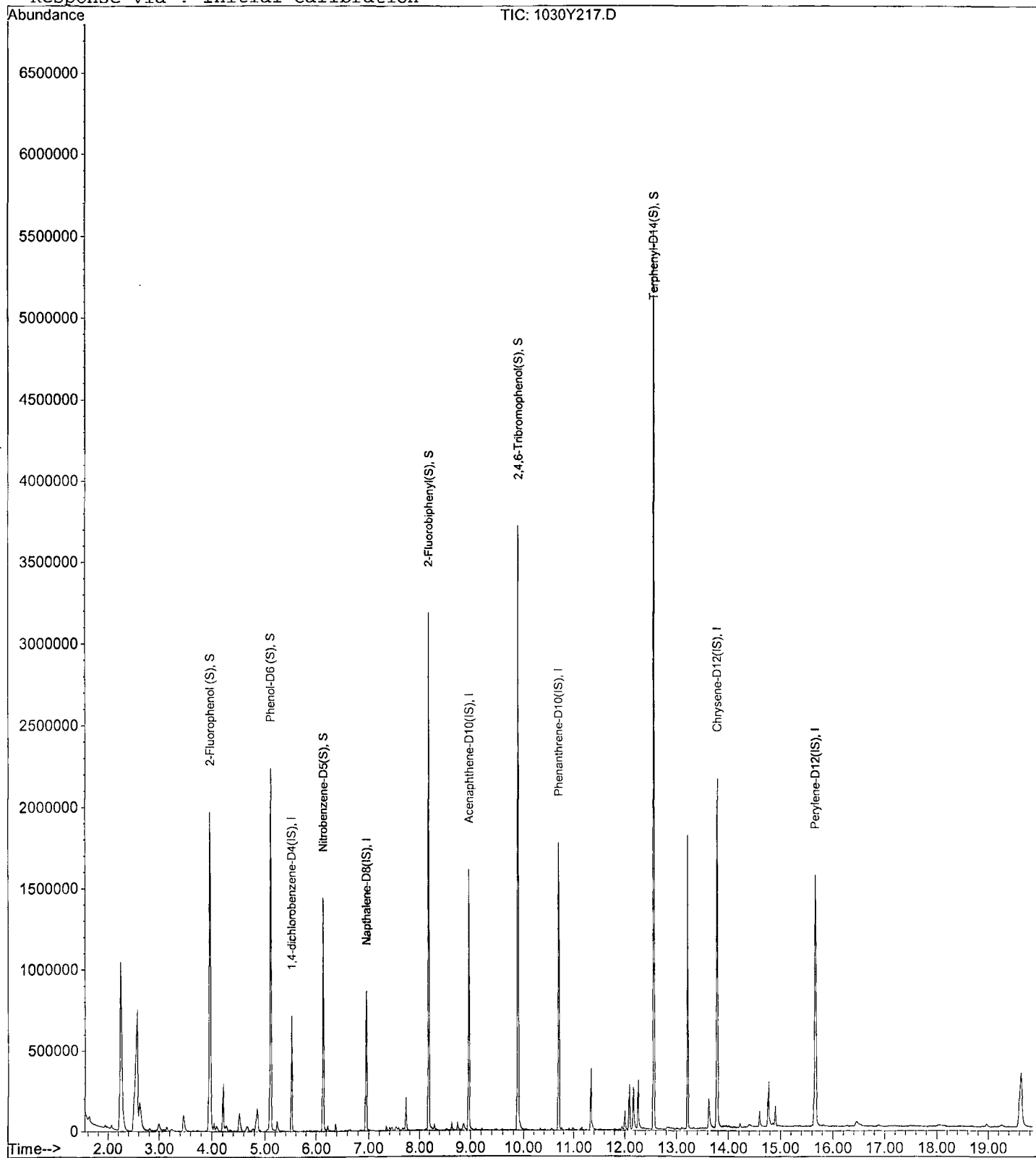
Data File : M:\YODA\DATA\Y191030\1030Y217.D
Acq On : 5 Nov 19 21:20
Sample : BA01829W11 1/800
Misc :

Vial: 17
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 8 9:18 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y218.D Vial: 18
 Acq On : 5 Nov 19 21:48 Operator: MA,SS
 Sample : BA01831W17 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 8 9:22 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	148061	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	573436	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	470571	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	1042222	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	1099686	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1228796	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.97	112	928417	237.66402	ppb	0.05
Spiked Amount	250.000		Recovery	=	95.066%	
6) Phenol-D6 (S)	5.11	99	1128775	255.05752	ppb	0.02
Spiked Amount	250.000		Recovery	=	102.023%	
22) Nitrobenzene-D5 (S)	6.14	82	595951	119.72943	ppb	0.00
Spiked Amount	125.000		Recovery	=	95.783%	
46) 2-Fluorobiphenyl (S)	8.19	172	1391287	95.38676	ppb	0.00
Spiked Amount	125.000		Recovery	=	76.310%	
64) 2,4,6-Tribromophenol (S)	9.89	330	670711	209.54703	ppb	0.00
Spiked Amount	250.000		Recovery	=	83.819%	
82) Terphenyl-D14 (S)	12.56	244	2249607	106.85977	ppb	0.00
Spiked Amount	125.000		Recovery	=	85.488%	

Target Compounds Qvalue

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

Quantitation Report

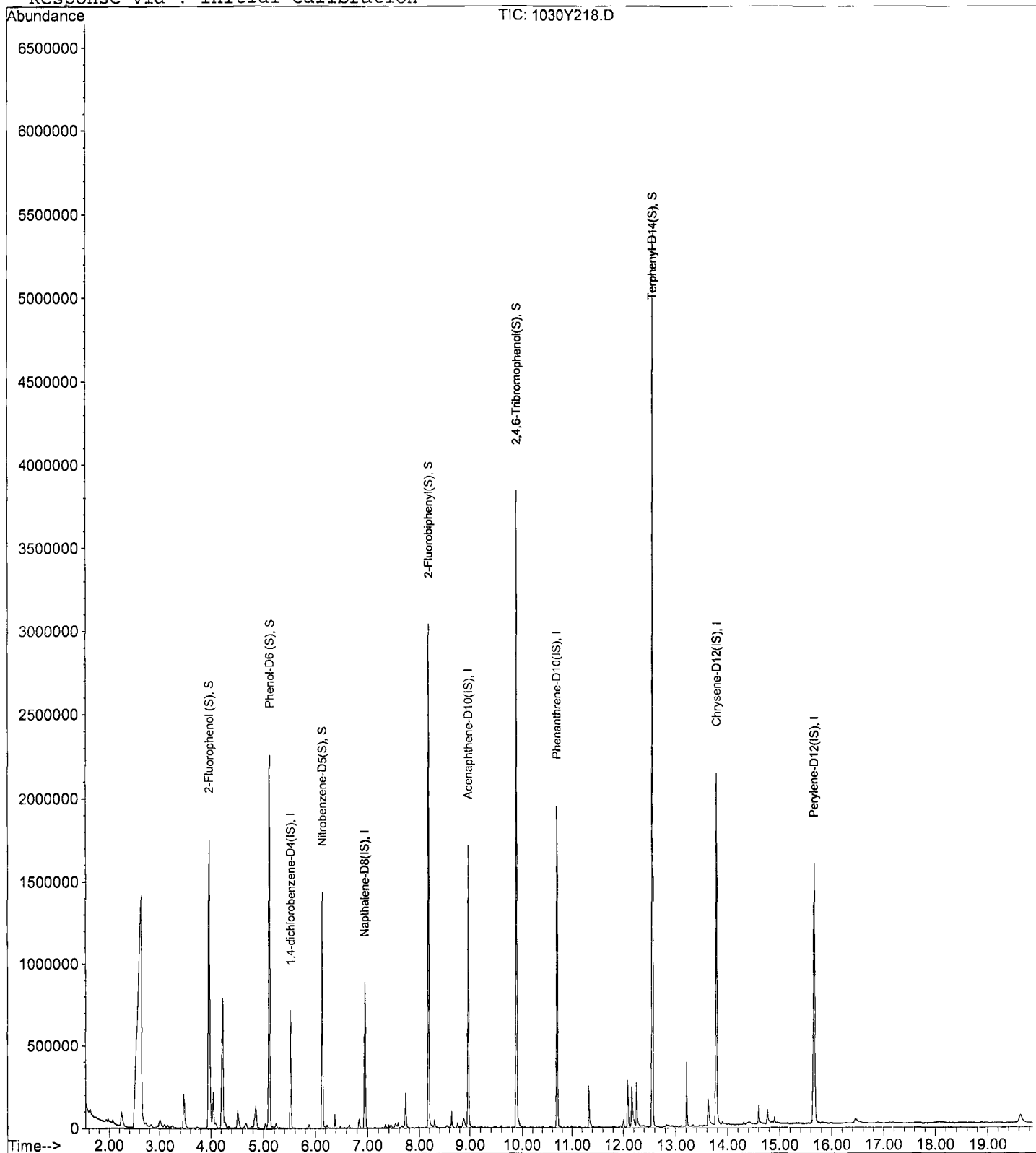
Data File : M:\YODA\DATA\Y191030\1030Y218.D
Acq On : 5 Nov 19 21:48
Sample : BA01831W17 1/800
Misc :

Vial: 18
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 8 9:22 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y219.D Vial: 19
 Acq On : 5 Nov 19 22:16 Operator: MA,SS
 Sample : BA01833W14 1/800 Inst : Yoda
 Misc : Multiplr: 1.25

Quant Time: Nov 8 9:23 2019 Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	126958	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	518877	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	453956	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.69	188	975300	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	1061761	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.66	264	1174916	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.97	112	863731	257.85732	ppb	0.05
Spiked Amount 250.000			Recovery =	103.143%		
6) Phenol-D6 (S)	5.11	99	1061643	279.76273	ppb	0.02
Spiked Amount 250.000			Recovery =	111.905%		
22) Nitrobenzene-D5 (S)	6.14	82	566247	125.72360	ppb	0.00
Spiked Amount 125.000			Recovery =	100.579%		
46) 2-Fluorobiphenyl (S)	8.19	172	1330577	94.56333	ppb	0.00
Spiked Amount 125.000			Recovery =	75.650%		
64) 2,4,6-Tribromophenol (S)	9.89	330	651582	211.02143	ppb	0.00
Spiked Amount 250.000			Recovery =	84.408%		
82) Terphenyl-D14 (S)	12.56	244	2191316	107.80887	ppb	0.00
Spiked Amount 125.000			Recovery =	86.247%		

Target Compounds

Qvalue

Quantitation Report

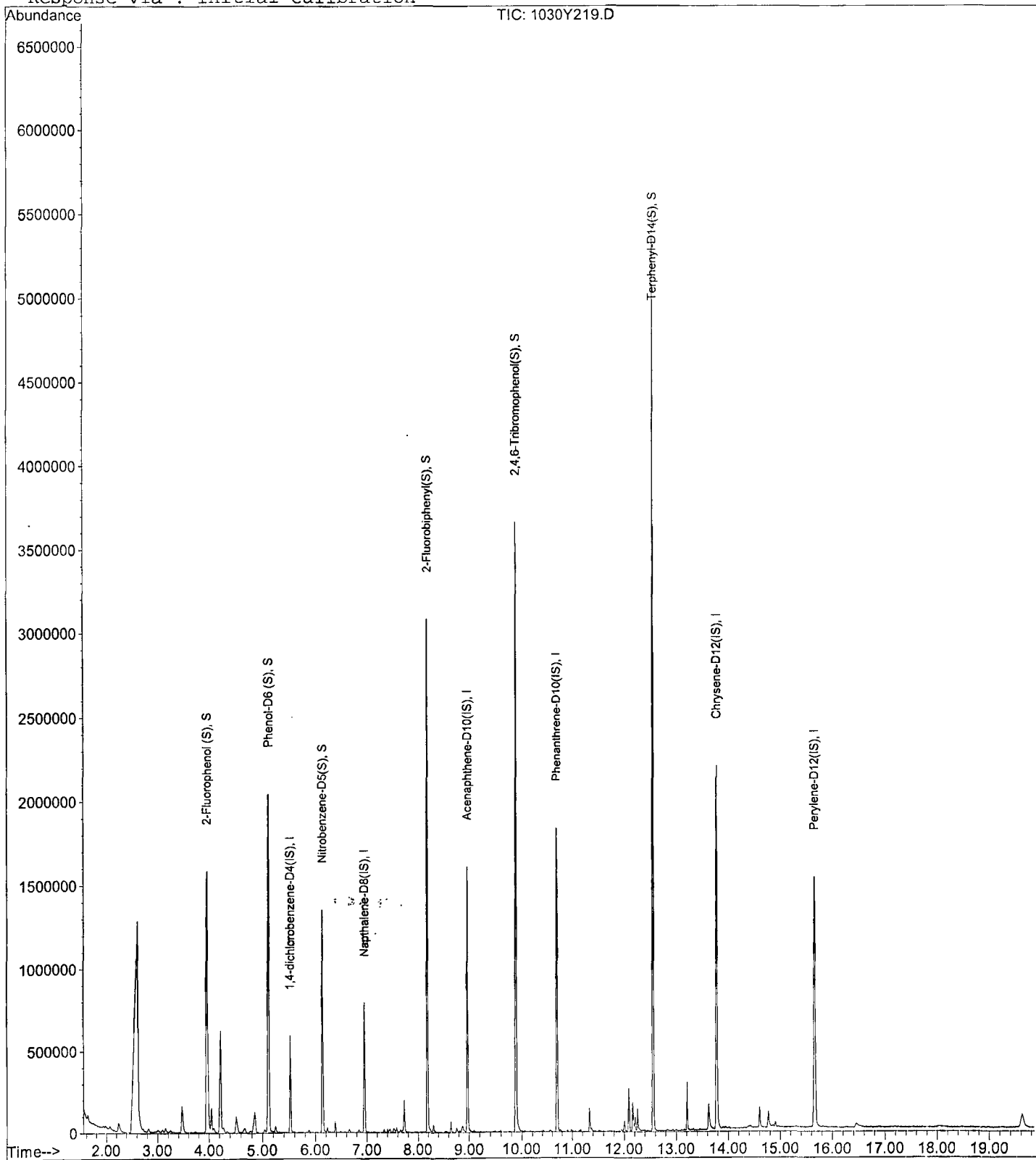
Data File : M:\YODA\DATA\Y191030\1030Y219.D
Acq On : 5 Nov 19 22:16
Sample : BA01833W14 1/800
Misc :

Vial: 19
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 8 9:23 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y196.D
 Acq On : 5 Nov 19 11:27
 Sample : 191029A BLK 1/800
 Misc :

Vial: 96
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:31 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	140492	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.94	136	561979	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	418337	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	873218	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.78	240	972890	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1125237	40.00000	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol (S)	3.96	112	823262	222.09946	ppb	0.04
Spiked Amount 250.000			Recovery =	88.840%		
6) Phenol-D6 (S)	5.11	99	967612	230.42048	ppb	0.02
Spiked Amount 250.000			Recovery =	92.168%		
22) Nitrobenzene-D5 (S)	6.14	82	532134	109.08781	ppb	0.00
Spiked Amount 125.000			Recovery =	87.270%		
46) 2-Fluorobiphenyl (S)	8.19	172	1229354	94.80848	ppb	0.00
Spiked Amount 125.000			Recovery =	75.846%		
64) 2,4,6-Tribromophenol (S)	9.89	330	599570	210.70986	ppb	0.00
Spiked Amount 250.000			Recovery =	84.284%		
82) Terphenyl-D14 (S)	12.56	244	2084173	111.90418	ppb	0.00
Spiked Amount 125.000			Recovery =	89.523%		

Target Compounds

Qvalue

Quantitation Report

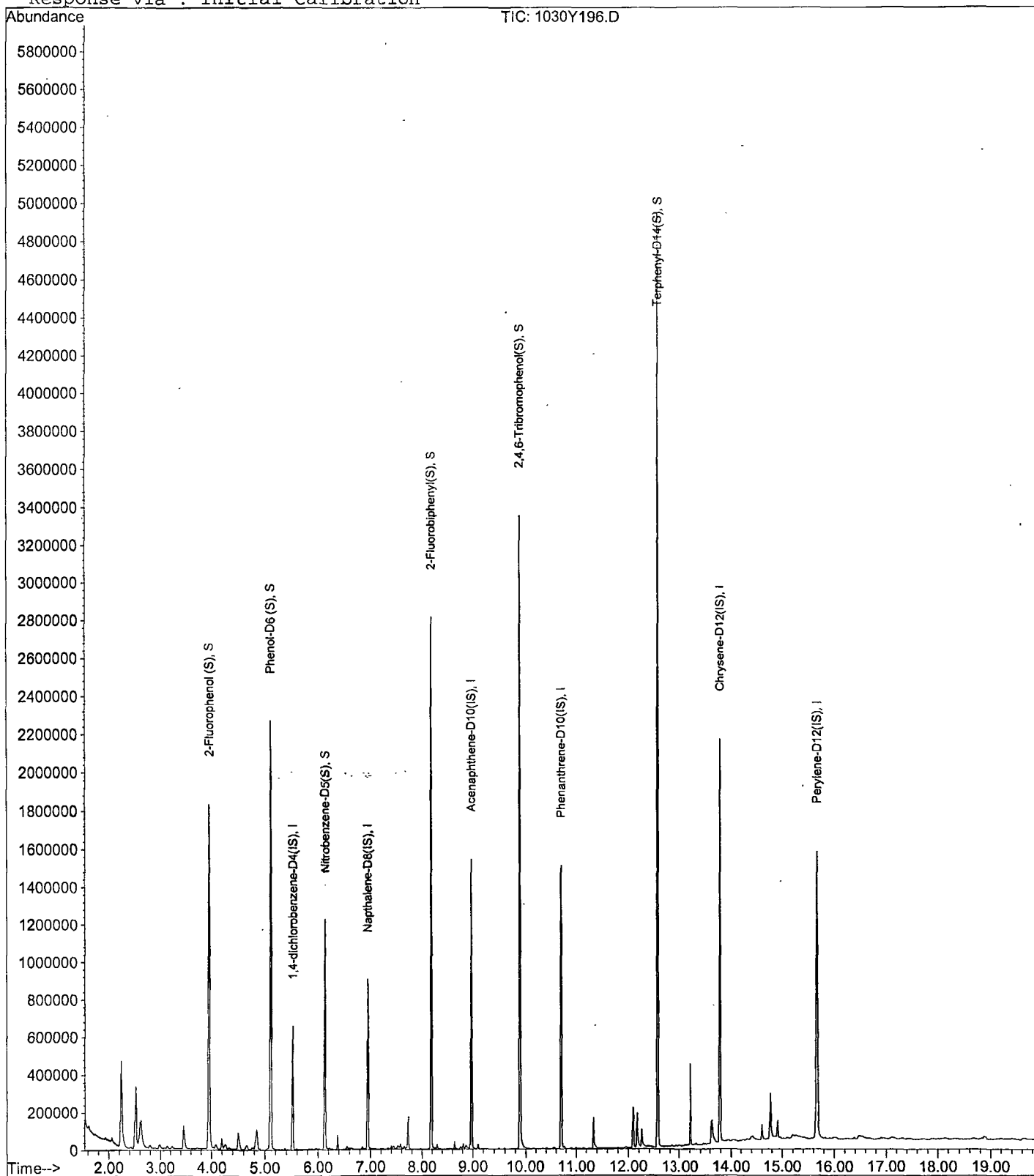
Data File : M:\YODA\DATA\Y191030\1030Y196.D
Acq On : 5 Nov 19 11:27
Sample : 191029A BLK 1/800
Misc :

Vial: 96
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:31 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y191030\1030Y197.D
 Acq On : 5 Nov 19 11:55
 Sample : 191029A LCS-1 1/800
 Misc :

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:09 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	141387	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.95	136	572016	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	404386	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	828621	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	956790	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1060389	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.96	112	807229	216.39554	ppb	0.04
Spiked Amount 250.000			Recovery =	86.558%		
6) Phenol-D6 (S)	5.12	99	973959	230.46375	ppb	0.03
Spiked Amount 250.000			Recovery =	92.186%		
22) Nitrobenzene-D5 (S)	6.14	82	505483	101.80607	ppb	0.00
Spiked Amount 125.000			Recovery =	81.445%		
46) 2-Fluorobiphenyl (S)	8.19	172	1181178	94.23577	ppb	0.00
Spiked Amount 125.000			Recovery =	75.389%		
64) 2,4,6-Tribromophenol (S)	9.90	330	592156	215.28376	ppb	0.00
Spiked Amount 250.000			Recovery =	86.114%		
82) Terphenyl-D14 (S)	12.56	244	1988620	108.57040	ppb	0.00
Spiked Amount 125.000			Recovery =	86.856%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.76	58	5336	6.16132		83
3) n-Nitrosodimethylamine	1.98	42	98533	50.35072	ppb	99
4) Pyridine	2.00	79	198048	51.91494	ppb	97
7) Phenol	5.13	94	319277	57.64172	ppb	96
8) Aniline	5.14	93	220339	38.73351	ppb	# 51
9) Bis (2-chloroethyl) ether	5.22	63	129285	58.31661	ppb	93
10) 2-Chlorophenol	5.28	128	269810	60.55194	ppb	93
11) 1,3-DCB	5.45	146	265059	50.28987	ppb	99
12) 1,4-DCB	5.53	146	274519	51.32834	ppb	99
13) Benzyl alcohol	5.67	108	150794	55.76973	ppb	84
14) 1,2-DCB	5.71	146	263821	53.17427	ppb	96
15) 2-Methylphenol	5.80	107	200963	55.84007	ppb	94
16) Bis (2-chloroisopropyl) et	5.82	45	127803	66.53872	ppb	88
17) Acetophenone	5.97	105	364308	54.27700	ppb	96
18) 3&4-Methylphenol	5.97	107	530633	109.80187	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	184520	52.59498	ppb	93
20) Hexachloroethane	6.09	117	97469	44.53501	ppb	94
23) Nitrobenzene	6.16	77	301206	52.90159	ppb	97
24) Isophorone	6.43	82	485355	52.09618	ppb	97
25) 2-Nitrophenol	6.52	139	155623	62.28058	ppb	85
26) 2,4-Dimethylphenol	6.56	122	227517	53.79994	ppb	90
27) Benzoic acid	6.68	105	181151	48.47266	ppb	96
28) Bis (2-chloroethoxy) metha	6.67	93	269603	54.73539	ppb	97
29) 2,4-Dichlorophenol	6.79	162	247815	56.01703	ppb	98
30) 1,2,4-Trichlorobenzene	6.89	180	265188	48.54494	ppb	98
31) 3,4-Dimethylphenol	6.90	107	365516	51.19418	ppb	95
32) Napthalene	6.97	128	732420	53.12009	ppb	100
33) 4-Chloroaniline	7.03	127	166928	31.69260	ppb	95
34) 2,6-Dichlorophenol	7.05	162	239496	56.25295	ppb	99
35) Hexachloropropene	7.08	213	131297	25.32766	ppb	97
36) Hexachlorobutadiene	7.12	225	173813	41.10371	ppb	99
37) Caprolactum	7.44	55	72317	59.90978	ppb	89

(#) = qualifier out of range (m) = manual integration
 1030Y197.D Y1015NC.M Fri Nov 08 09:53:20 2019
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Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y197.D
 Acq On : 5 Nov 19 11:55
 Sample : 191029A LCS-1 1/800
 Misc :

Vial: 97
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:09 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	266955	54.85567	ppb	95
39) 2-Methylnaphthalene	7.76	142	503945	52.44394	ppb	99
40) 1-Methylnaphthalene	7.88	142	519458	52.49963	ppb	100
42) Hexachlorocyclopentadiene	7.95	237	62152	9.96513	ppb	99
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	317599	43.42111	ppb	99
44) 2,4,6-Trichlorophenol	8.09	196	222834	49.04236	ppb	98
45) 2,4,5-Trichlorophenol	8.14	196	235685	47.80873	ppb	94
47) 1,1'-Biphenyl	8.30	154	655483	45.17170	ppb	99
48) 2-Chloronaphthalene	8.33	162	546372	44.95712	ppb	97
49) 2-Nitroaniline	8.44	65	150947	44.47174	ppb	84
50) Dimethyl phthalate	8.65	163	736569	48.49190	ppb	98
51) 2,6-DNT	8.72	165	165146	51.25695	ppb	80
52) Acenaphthylene	8.80	152	842319	45.89126	ppb	99
53) 3-Nitroaniline	8.44	138	176418	50.49849	ppb	# 89
54) Acenaphthene	9.01	154	590459	47.55724	ppb	99
55) 2,4-Dinitrophenol	9.03	184	102096	54.00728	ppb	99
56) 4-Nitrophenol	8.72	65	10310	42.70133	ppb	94
57) Dibenzofuran	9.21	168	815430	45.83420	ppb	92
58) 2,4-DNT	9.19	165	229176	50.91382	ppb	89
59) 2,3,4,6-Tetrachlorophenol	9.35	232	215683	50.24941	ppb	98
60) Diethyl phthalate	9.47	149	718888	46.19356	ppb	99
61) 4-Chlorophenyl phenyl ethe	9.61	204	410122	44.79808	ppb	88
62) Fluorene	9.61	166	671898	45.13736	ppb	99
63) 4-Nitroaniline	8.91	138	124743	43.63181	ppb	88
66) 4,6-Dinitro-2-methylphenol	9.66	198	164348	61.45815	ppb	89
67) Diphenyl amine	9.75	169	1059763	96.95230	ppb	100
68) n-Nitrosodiphenylamine	9.75	169	1059763	96.95230	ppb	100
69) 1,2-Diphenylhydrazine	9.79	77	594603	46.09877	ppb	# 84
70) 4-Bromophenyl phenyl ether	10.18	248	271747	53.07641	ppb	97
71) Hexachlorobenzene	10.25	284	288119	53.00182	ppb	93
72) Atrazine	10.36	200	115987	25.91588	ppb	97
73) Pentachlorophenol	10.48	266	201190	55.89082	ppb	98
74) Phenanthrene	10.73	178	1008762	49.98453	ppb	99
75) Anthracene	10.79	178	1050888	50.43059	ppb	99
76) Carbazol	10.97	167	956514	51.06132	ppb	98
77) Di-n-butylphthalate	11.37	149	1226600	51.41420	ppb	99
78) Fluoranthene	12.11	202	1284476	50.24944	ppb	99
80) Benzidine	12.26	184	187638	31.20687	ppb	96
81) Pyrene	12.38	202	1345341	49.87751	ppb	99
83) Butyl benzylphthalate	13.13	149	577346	50.79922	ppb	96
84) 3,3'-Dichlorobenzidine	13.74	252	321246	34.62884	ppb	99
85) Benz (a) anthracene	13.78	228	1458914	50.01215	ppb	99
86) Bis (2-ethylhexyl) phthala	13.79	149	885291	53.28175	ppb	98
87) Chrysene	13.81	228	1372376	50.44352	ppb	100
88) Di-n-octylphthalate	14.56	149	1414068	51.41259	ppb	99
90) Benzo (b) fluoranthene	15.11	252	1639127	53.18955	ppb	100
91) Benzo (k) fluoranthene	15.15	252	1252838	44.95633	ppb	100
92) Benzo (a) pyrene	15.59	252	1334831	50.26190	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.60	276	1663171	50.67137	ppb	99
94) Dibenz (a,h) anthracene	17.64	278	1464036	52.28261	ppb	99
95) Benzo (g,h,i) perylene	18.18	276	1319374	50.45629	ppb	99

(#) = qualifier out of range (m) = manual integration
 1030Y197.D Y1015NC.M Fri Nov 08 09:53:20 2019 382 of 866

Quantitation Report

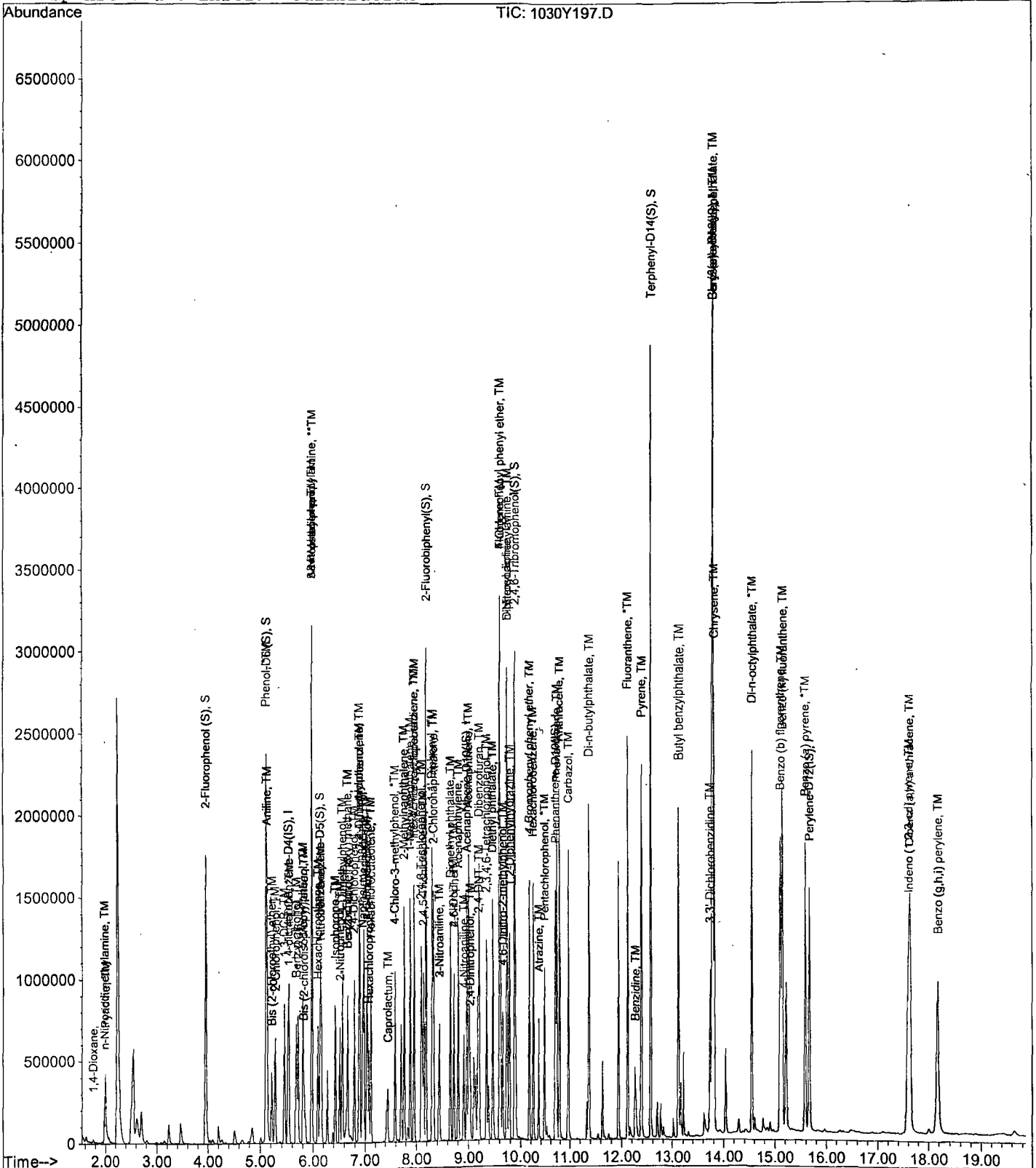
Data File : M:\YODA\DATA\Y191030\1030Y197.D
Acq On : 5 Nov 19 11:55
Sample : 191029A LCS-1 1/800
Misc :

Vial: 97
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:09 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y198.D
 Acq On : 5 Nov 19 12:24
 Sample : 191029A LCSD-1 1/800
 Misc :

Vial: 98
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	5.52	152	138377	40.00000	ppb	0.00
21) Napthalene-D8 (IS)	6.96	136	529852	40.00000	ppb	0.00
41) Acenaphthene-D10 (IS)	8.97	164	384813	40.00000	ppb	0.00
65) Phenanthrene-D10 (IS)	10.70	188	831873	40.00000	ppb	0.00
79) Chrysene-D12 (IS)	13.79	240	950487	40.00000	ppb	0.00
89) Perylene-D12 (IS)	15.67	264	1063527	40.00000	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol (S)	3.96	112	810164	221.90652	ppb	0.04
Spiked Amount 250.000			Recovery =	88.763%		
6) Phenol-D6 (S)	5.11	99	975820	235.92677	ppb	0.02
Spiked Amount 250.000			Recovery =	94.371%		
22) Nitrobenzene-D5 (S)	6.14	82	507921	110.43759	ppb	0.00
Spiked Amount 125.000			Recovery =	88.350%		
46) 2-Fluorobiphenyl (S)	8.19	172	1187778	99.58228	ppb	0.00
Spiked Amount 125.000			Recovery =	79.666%		
64) 2,4,6-Tribromophenol (S)	9.90	330	593536	226.76111	ppb	0.00
Spiked Amount 250.000			Recovery =	90.704%		
82) Terphenyl-D14 (S)	12.56	244	2001546	110.00076	ppb	0.00
Spiked Amount 125.000			Recovery =	88.001%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.76	58	4610m	5.43882		68
3) n-Nitrosodimethylamine	1.98	42	95103	49.65509	ppb	93
4) Pyridine	2.00	79	164130	43.95977	ppb	100
7) Phenol	5.13	94	319249	58.89039	ppb	97
8) Aniline	5.14	93	225517	40.50609	ppb	# 68
9) Bis (2-chloroethyl) ether	5.22	63	131535	60.62211	ppb	92
10) 2-Chlorophenol	5.28	128	271205	62.18895	ppb	99
11) 1,3-DCB	5.45	146	265883	51.54352	ppb	99
12) 1,4-DCB	5.54	146	272379	52.03601	ppb	99
13) Benzyl alcohol	5.68	108	150741	56.96282	ppb	86
14) 1,2-DCB	5.70	146	261819	53.91864	ppb	97
15) 2-Methylphenol	5.80	107	201842	57.30427	ppb	96
16) Bis (2-chloroisopropyl) et	5.82	45	128954	68.59836	ppb	88
17) Acetophenone	5.97	105	365921	55.70319	ppb	96
18) 3&4-Methylphenol	5.97	107	539716	114.11069	ppb	97
19) n-Nitrosodi-n-propylamine	5.97	70	183966	53.57769	ppb	92
20) Hexachloroethane	6.09	117	95005	44.35342	ppb	90
23) Nitrobenzene	6.16	77	301028	57.07758	ppb	96
24) Isophorone	6.43	82	482572	55.91935	ppb	99
25) 2-Nitrophenol	6.52	139	152079	65.70549	ppb	86
26) 2,4-Dimethylphenol	6.57	122	236705	60.42671	ppb	90
27) Benzoic acid	6.69	105	227810	65.80858	ppb	97
28) Bis (2-chloroethoxy) metha	6.67	93	273295	59.90027	ppb	97
29) 2,4-Dichlorophenol	6.79	162	251355	61.33856	ppb	99
30) 1,2,4-Trichlorobenzene	6.89	180	261692	51.71710	ppb	99
31) 3,4-Dimethylphenol	6.90	107	371223	56.13099	ppb	95
32) Napthalene	6.98	128	730325	57.18319	ppb	100
33) 4-Chloroaniline	7.03	127	146724	30.07346	ppb	94
34) 2,6-Dichlorophenol	7.04	162	242884	61.58848	ppb	98
35) Hexachloropropene	7.08	213	129050	26.87521	ppb	99
36) Hexachlorobutadiene	7.11	225	169787	43.34678	ppb	99
37) Caprolactum	7.44	55	74080	66.25397	ppb	89

(#) = qualifier out of range (m) = manual integration
 1030Y198.D Y1015NC.M Fri Nov 08 09:53:24 2019
 384 of 866

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y191030\1030Y198.D
 Acq On : 5 Nov 19 12:24
 Sample : 191029A LCSD-1 1/800
 Misc :

Vial: 98
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

Quant Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Oct 15 15:29:17 2019
 Response via : Initial Calibration
 DataAcq Meth : SVOC1011

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 4-Chloro-3-methylphenol	7.59	107	268445	59.55145	ppb	92
39) 2-Methylnaphthalene	7.76	142	502578	56.46369	ppb	99
40) 1-Methylnaphthalene	7.88	142	524139	57.18813	ppb	99
42) Hexachlorocyclopentadiene	7.95	237	59101	9.95793	ppb	96
43) 1,2,4,5-Tetrachlorobenzene	7.96	216	322757	46.37072	ppb	97
44) 2,4,6-Trichlorophenol	8.09	196	225656	52.18950	ppb	99
45) 2,4,5-Trichlorophenol	8.14	196	235686	50.24067	ppb	96
47) 1,1'-Biphenyl	8.30	154	672288	48.68629	ppb	99
48) 2-Chloronaphthalene	8.33	162	561491	48.55111	ppb	96
49) 2-Nitroaniline	8.43	65	156161	48.34801	ppb	97
50) Dimethyl phthalate	8.66	163	740441	51.22626	ppb	98
51) 2,6-DNT	8.72	165	165418	53.95278	ppb #	75
52) Acenaphthylene	8.80	152	843788	48.30956	ppb	100
53) 3-Nitroaniline	8.44	138	181322	54.54217	ppb #	88
54) Acenaphthene	9.01	154	594779	50.34181	ppb	99
55) 2,4-Dinitrophenol	9.04	184	109464	60.85010	ppb	97
56) 4-Nitrophenol	8.72	65	10067	43.81564	ppb	100
57) Dibenzofuran	9.21	168	823675	48.65250	ppb	91
58) 2,4-DNT	9.18	165	234470	54.73942	ppb	95
59) 2,3,4,6-Tetrachlorophenol	9.35	232	218137	53.40609	ppb	94
60) Diethyl phthalate	9.47	149	721165	48.69689	ppb	98
61) 4-Chlorophenyl phenyl ethe	9.60	204	417772	47.95479	ppb	97
62) Fluorene	9.61	166	678122	47.87260	ppb	99
63) 4-Nitroaniline	8.92	138	113350	41.66342	ppb	84
66) 4,6-Dinitro-2-methylphenol	9.67	198	165599	61.68388	ppb #	83
67) Diphenyl amine	9.75	169	999102	91.04542	ppb	99
68) n-Nitrosodiphenylamine	9.75	169	999102	91.04542	ppb	99
69) 1,2-Diphenylhydrazine	9.79	77	581084	44.87455	ppb	95
70) 4-Bromophenyl phenyl ether	10.18	248	270758	52.67651	ppb	97
71) Hexachlorobenzene	10.25	284	291644	53.44054	ppb	97
72) Atrazine	10.36	200	110197	24.52592	ppb	99
73) Pentachlorophenol	10.48	266	202092	55.92193	ppb	100
74) Phenanthrene	10.73	178	1019975	50.34256	ppb	99
75) Anthracene	10.79	178	1046122	50.00562	ppb	99
76) Carbazol	10.98	167	968995	51.52537	ppb	98
77) Di-n-butylphthalate	11.37	149	1235525	51.58585	ppb	97
78) Fluoranthene	12.12	202	1315447	51.25987	ppb	99
80) Benzidine	12.27	184	62012	10.38187	ppb #	90
81) Pyrene	12.39	202	1372521	51.22262	ppb	99
83) Butyl benzylphthalate	13.12	149	584702	51.78762	ppb	88
84) 3,3'-Dichlorobenzidine	13.74	252	303801	32.96552	ppb	99
85) Benz (a) anthracene	13.77	228	1472680	50.81883	ppb	99
86) Bis (2-ethylhexyl) phthala	13.79	149	853360	51.70055	ppb	98
87) Chrysene	13.82	228	1364629	50.49138	ppb	99
88) Di-n-octylphthalate	14.56	149	1443332	52.82455	ppb	98
90) Benzo (b) fluoranthene	15.11	252	1476271	47.76354	ppb #	98
91) Benzo (k) fluoranthene	15.15	252	1418546	50.75233	ppb	99
92) Benzo (a) pyrene	15.59	252	1336078	50.16041	ppb	99
93) Indeno (1,2,3-cd) pyrene	17.59	276	1657339	50.34470	ppb	98
94) Dibenz (a,h) anthracene	17.63	278	1457439	51.89345	ppb	98
95) Benzo (g,h,i) perylene	18.18	276	1313413	50.08013	ppb	99

(#) = qualifier out of range (m) = manual integration
 1030Y198.D Y1015NC.M Fri Nov 08 09:53:25 2019
 385 of 866

Quantitation Report

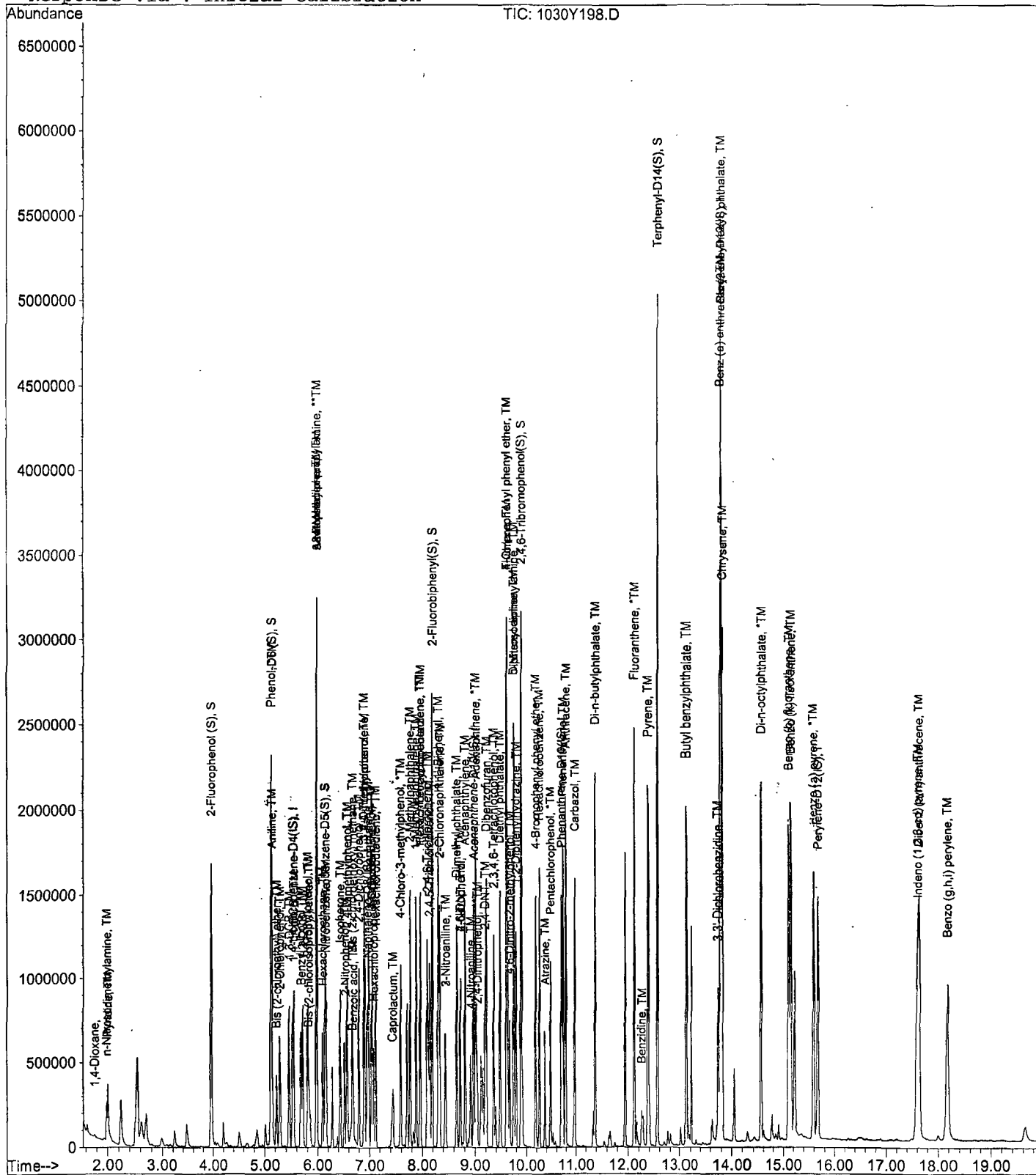
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Acq On : 5 Nov 19 12:24
Sample : 191029A LCSD-1 1/800
Misc :

Vial: 98
Operator: MA,SS
Inst : Yoda
Multiplr: 1.25

Quant Time: Nov 6 8:33 2019

Quant Results File: Y1015NC.RES

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Nov 07 12:28:35 2019
Response via : Initial Calibration

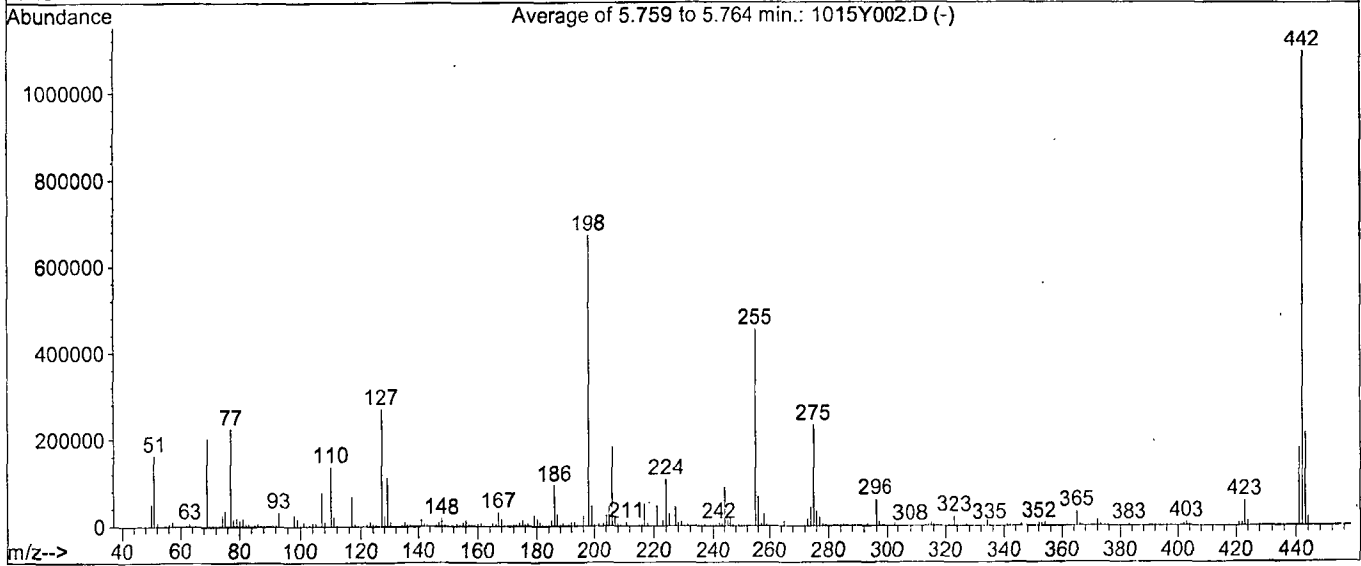
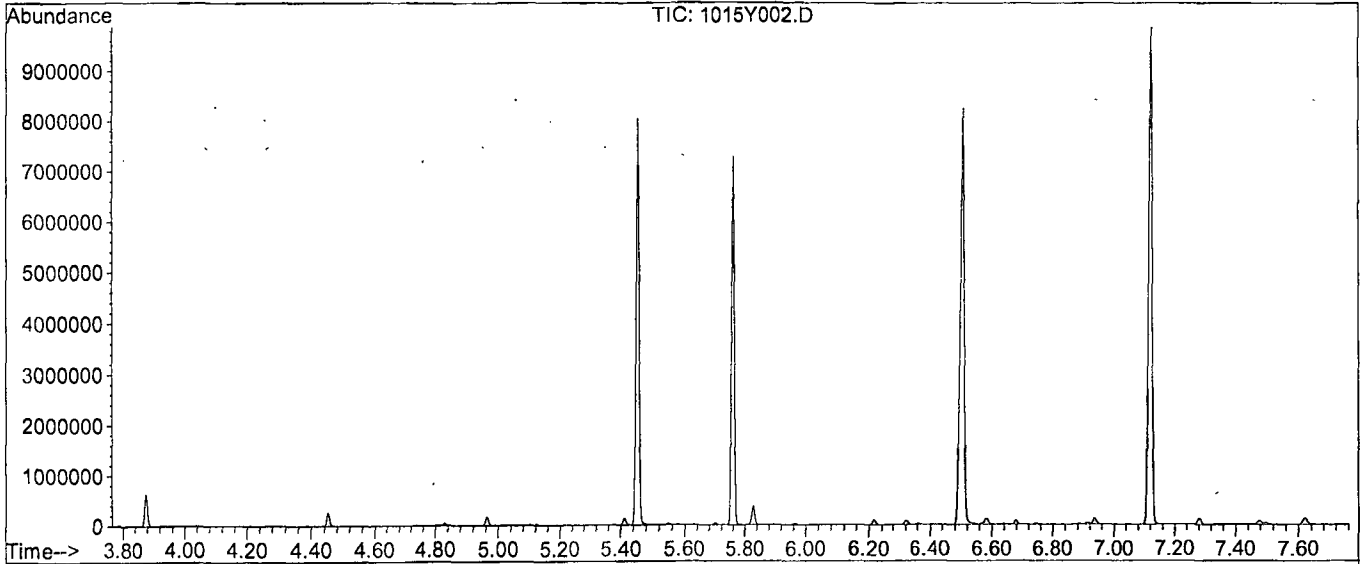


DFTPP

Data File : M:\YODA\DATA\Y191015\1015Y002.D
 Acq On : 15 Oct 19 8:30
 Sample : SV TUNE 10/01/19
 Misc :

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y191015\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.759 to 5.764 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.2	162281	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.2	371	PASS
127	198	10	80	40.4	270443	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	669973	PASS
199	198	5	9	6.8	45805	PASS
275	198	10	60	34.5	231296	PASS
365	198	1	100	4.9	32499	PASS
441	442	0.01	24	16.3	179093	PASS
442	198	50	500	163.6	1096256	PASS
443	442	15	24	19.6	214507	PASS

Data File Name: 1015Y002.D
Data File Path: M:\YODA\DATA\Y191015\
Operator: MA,SS
Date Acquired: 15 Oct 2019 08:30
Method File: DFTPP2.M
Sample Name: SV TUNE 10/01/19
Vial Number: 92
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	7.12	76531300
2)	DDD	6.93	970826
3)	DDE	6.58	924346

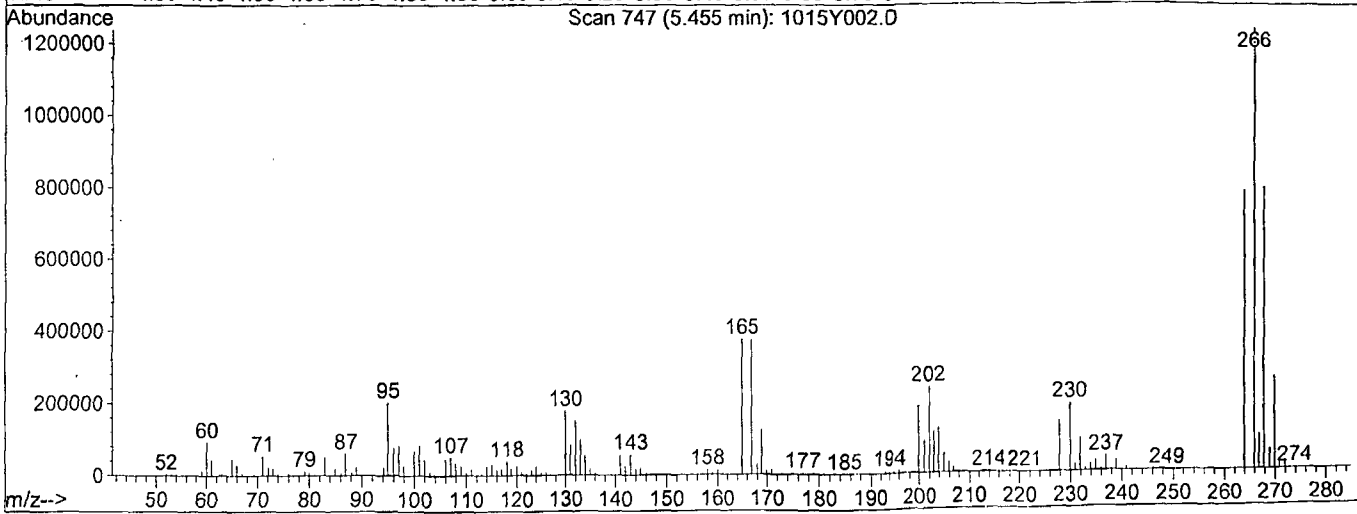
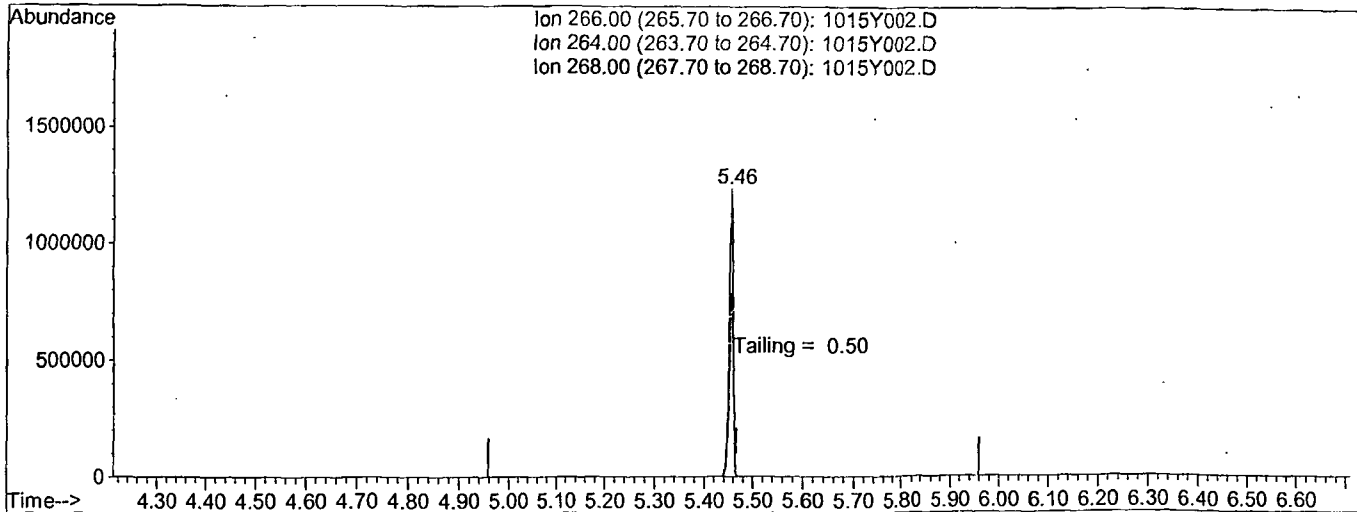
Breakdown 2.42

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y002.D
Acq On : 15 Oct 19 8:30
Sample : SV TUNE 10/01/19
Misc :
Quant Time: Oct 15 8:30 2019

Vial: 92
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Mon Oct 14 16:47:30 2019
Response via : Single Level Calibration



TIC: 1015Y002.D

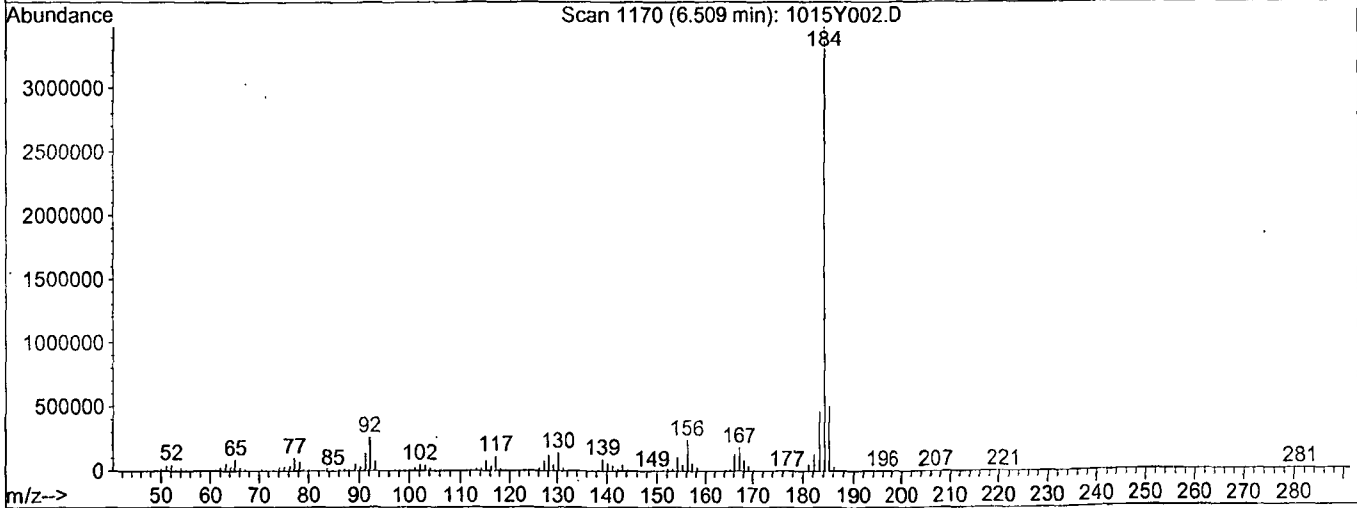
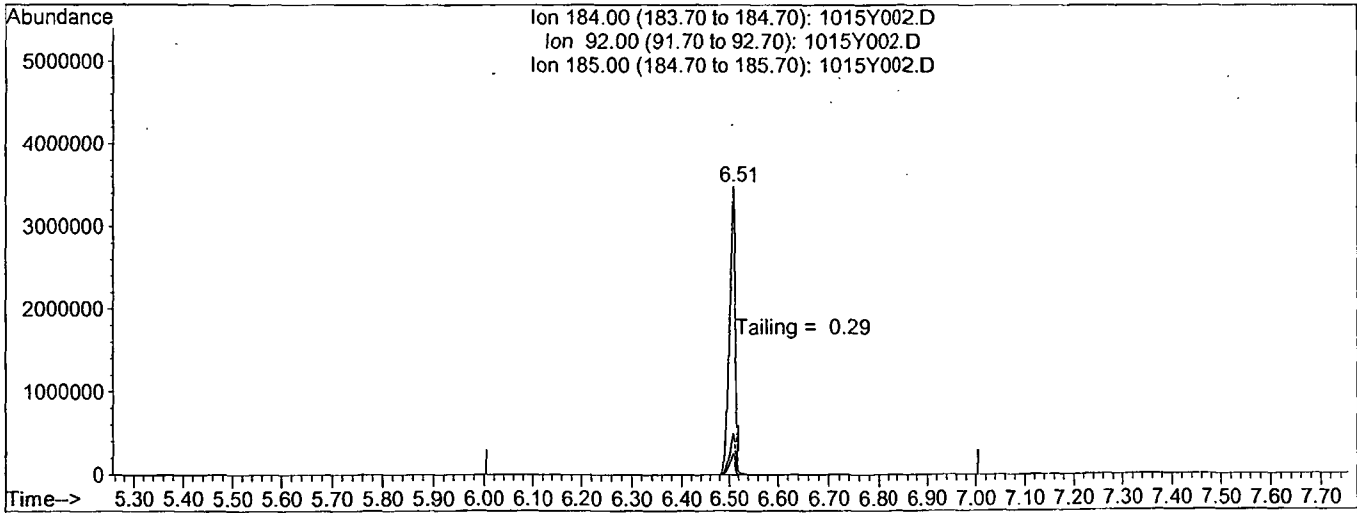
(5) Pentachlorophenol		
5.46min	0.0000	
response	7377979	
Ion	Exp%	Act%
266.00	100	100
264.00	63.90	62.94
268.00	64.90	63.99
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191015\1015Y002.D
 Acq On : 15 Oct 19 8:30
 Sample : SV TUNE 10/01/19
 Misc :
 Quant Time: Oct 15 8:30 2019

Vial: 92
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191015\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Mon Oct 14 16:47:30 2019
 Response via : Single Level Calibration



TIC: 1015Y002.D

(6) Benzidine

6.51min 0.0000

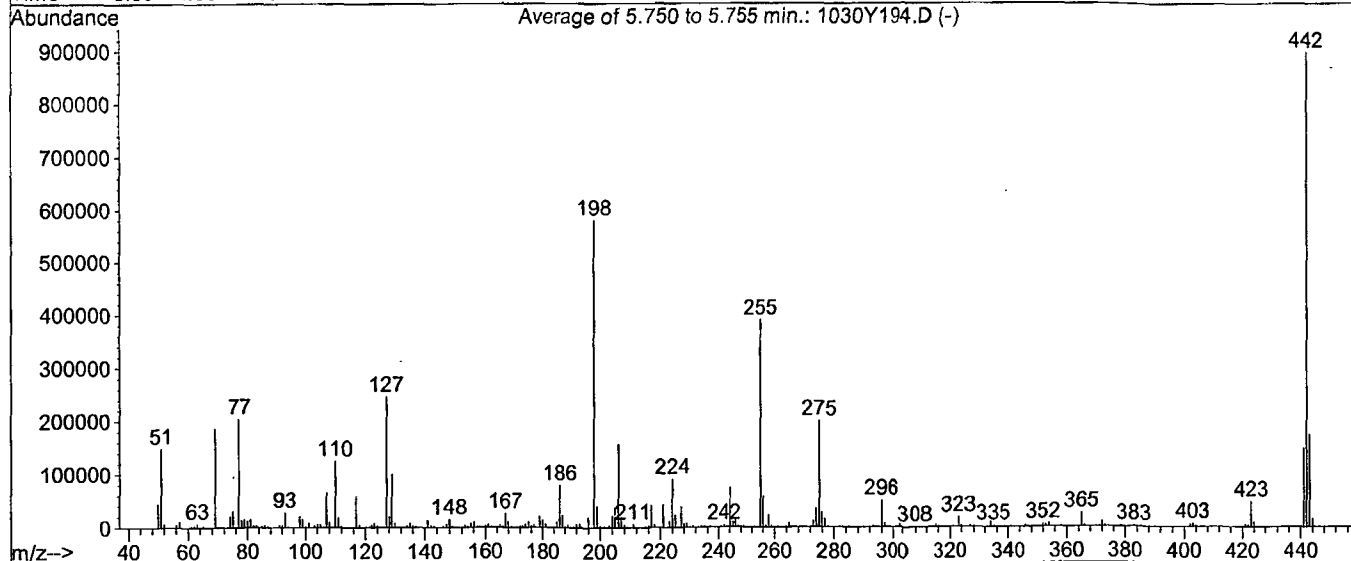
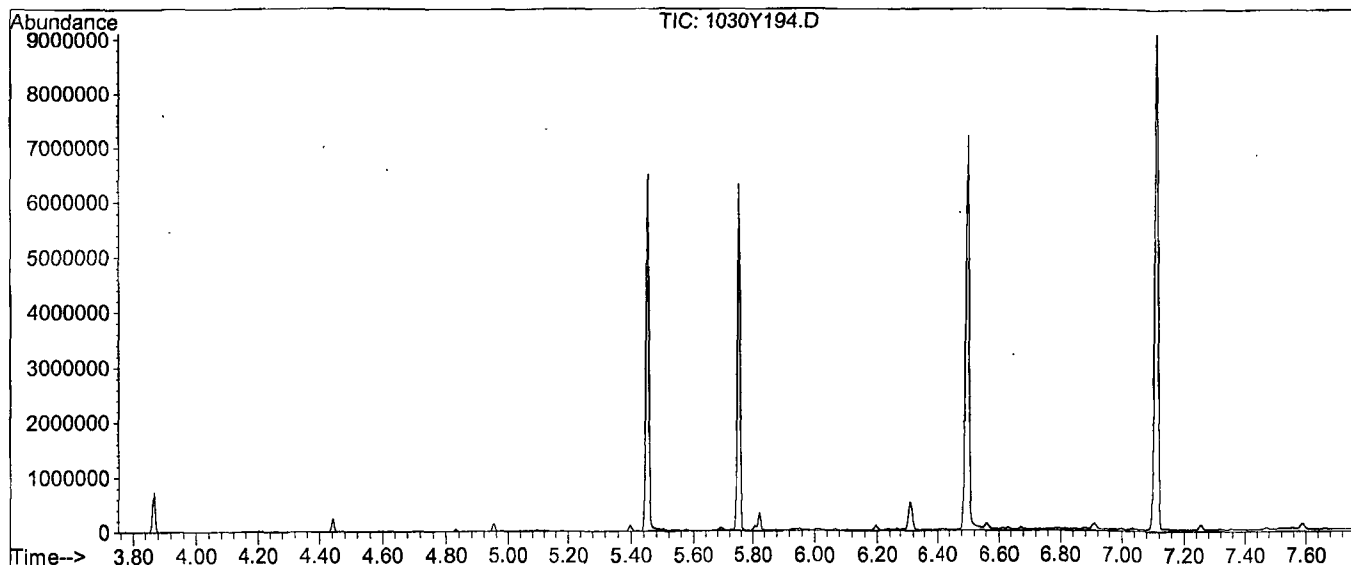
response 29565532

Ion	Exp%	Act%
184.00	100	100
92.00	6.90	6.96
185.00	14.50	14.22
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y191030\1030Y194.D
 Acq On : 5 Nov 19 10:36
 Sample : SV TUNE 10/01/19
 Misc :

Vial: 94
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y191030\Y1015NC.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 5.750 to 5.755 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.7	148808	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	924	PASS
127	198	10	80	42.4	245952	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	579797	PASS
199	198	5	9	7.0	40765	PASS
275	198	10	60	34.5	199744	PASS
365	198	1	100	4.5	25891	PASS
441	442	0.01	24	16.6	148672	PASS
442	198	50	500	154.7	896896	PASS
443	442	15	24	19.4	174080	PASS

Data File Name: 1030Y194.D
Data File Path: M:\YODA\DATA\Y191030\
Operator: MA,SS
Date Acquired: 5 Nov 19 10:36
Method File: DFTPP2.M
Sample Name: SV TUNE 10/01/19
Vial Number: 94
Instrument Name: Yoda

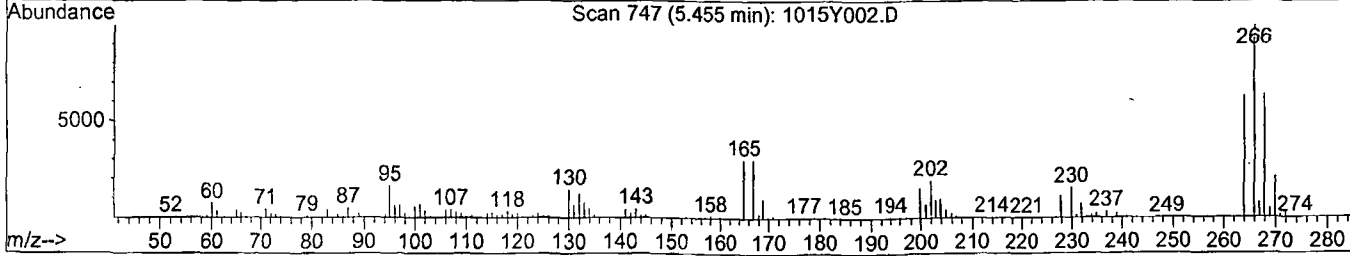
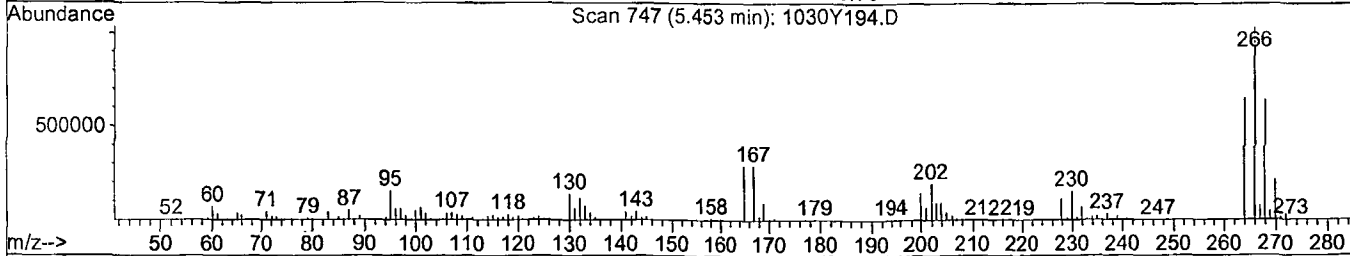
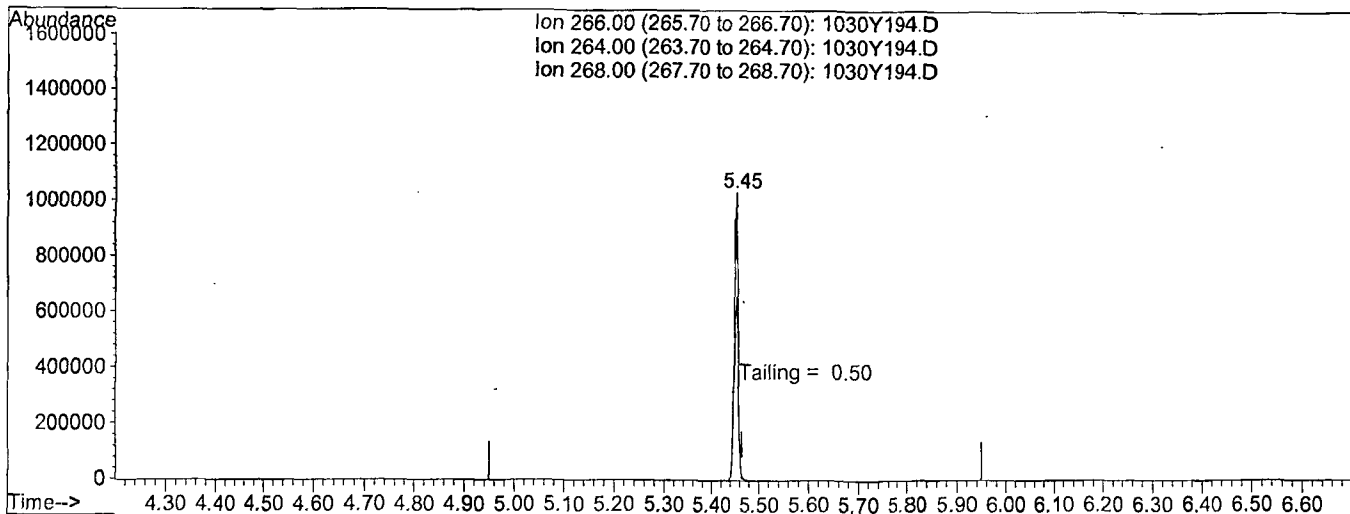
#	Name	Ret Time	Target Response
1)	DDT	7.09	67420600
2)	DDD	6.90	1086490
3)	DDE	6.62	62697

Breakdown 1.68

Quantitation Report

Data File : M:\YODA\DATA\Y191030\1030Y194.D Vial: 94
 Acq On : 5 Nov 19 10:36 Operator: MA,SS
 Sample : SV TUNE 10/01/19 Inst : Yoda
 Misc : Multiplr: 1.00
 Quant Time: Nov 5 10:32 2019 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191030\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Oct 30 17:03:17 2019
 Response via : Single Level Calibration



TIC: 1030Y194.D

(5) Pentachlorophenol

5.45min 0.0000

response 6318802

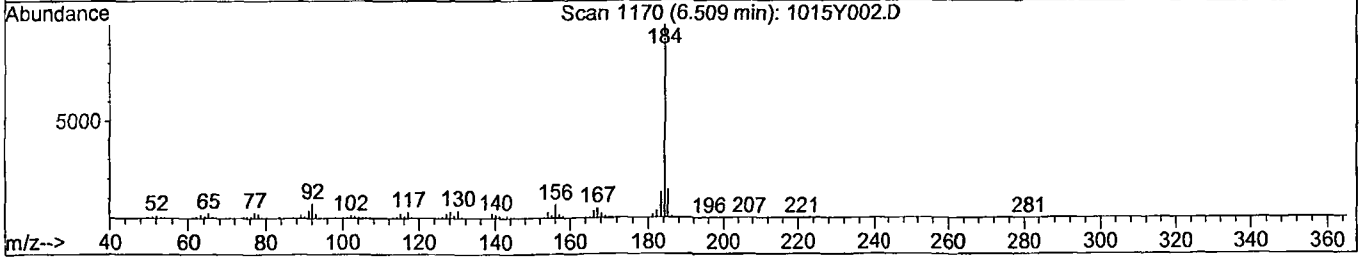
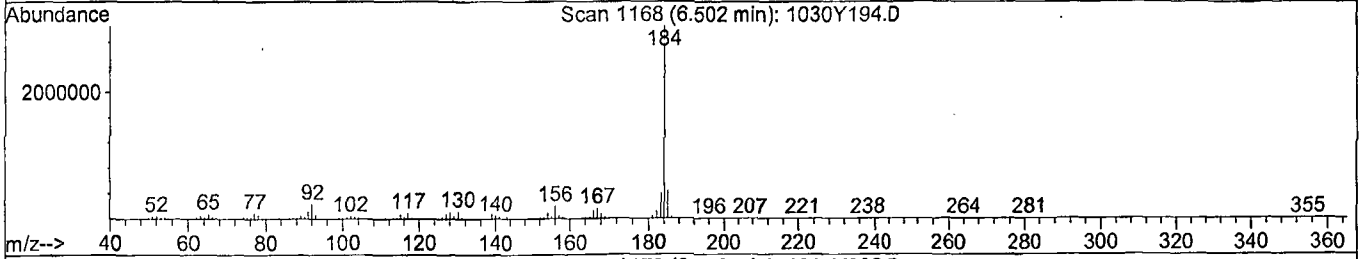
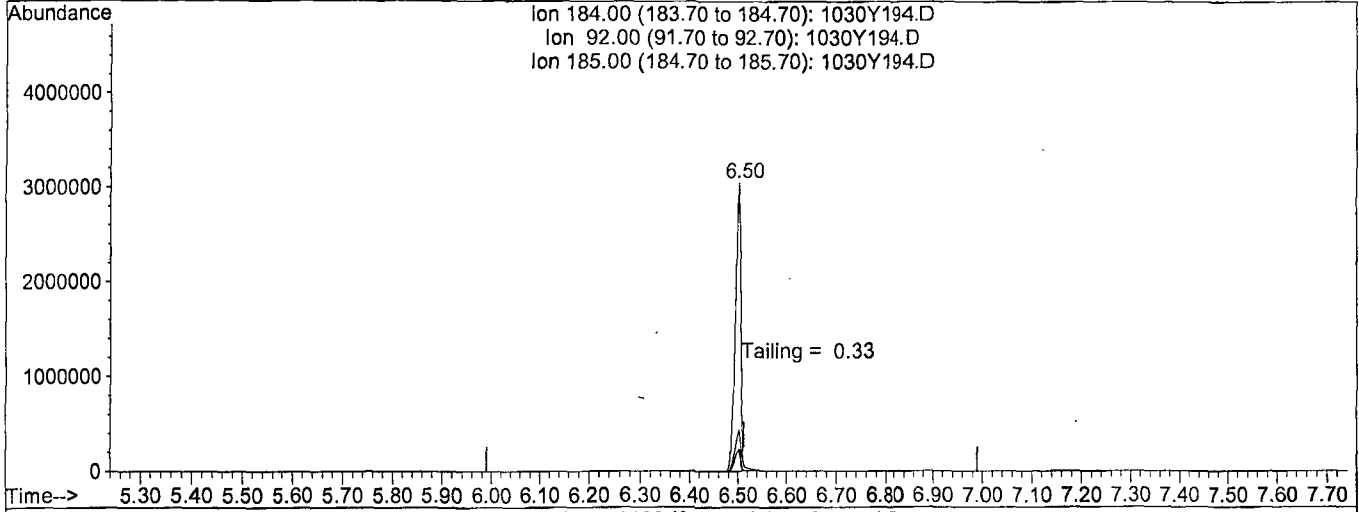
Ion	Exp%	Act%
266.00	100	100
264.00	62.90	64.02
268.00	64.50	64.02
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y191030\1030Y194.D
 Acq On : 5 Nov 19 10:36
 Sample : SV TUNE 10/01/19
 Misc :
 Quant Time: Nov 5 10:32 2019

Vial: 94
 Operator: MA, SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y191030\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Oct 30 17:03:17 2019
 Response via : Single Level Calibration



TIC: 1030Y194.D

(6) Benzidine

6.50min 0.0000

response 24822574

Ion	Exp%	Act%
184.00	100	100
92.00	7.40	7.39
185.00	14.40	14.32
0.00	0.00	0.00

Name of Final Standard **8270 Full Scan Standard Curve**

Prep'd By (Initials) JP

Prep Date 10/11/19

Exp Date 10/11/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	4 uL	200uL	MC 56258 192uL	4 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	4 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	5 uL	200uL	MC 56258 190uL	5 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	5 uL	100uL	MC 56258 90uL	10 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	5 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	10 uL	100uL	MC 56258 80uL	20 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	10 uL	*	*	*
SV Internal Standard	APPL	Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	20 uL	100uL	MC 56258 60uL	40 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	20 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	50 uL	200 uL	MC 56258 100uL	50 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	30 uL	100uL	MC 56258 40uL	60 ug/mL
8270 Surrogate	APPL	8270 Surrogate	ug/mL	07/10/19	06/24/20	30 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	40 uL	100uL	MC 56258 20uL	80 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	40 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*
8270 Stock	APPL	8270 Stock	200 ug/mL	09/17/19	09/17/20	50 uL	100uL	na	100 ug/mL
8270 Surrogate	APPL	8270 Surrogate	200/400 ug/mL	07/10/19	06/24/20	50 uL	*	*	*
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	2 uL	*	*	*

Name of Final Standard **8270 Full Scan Second Source**

Prep'd By (Initials) JP

Prep Date 10/11/19

Exp Date 01/08/20

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 SS Stock	o2si	8270 SS Stock	200 ug/mL	03/05/19	01/08/20	50 uL	200uL	MC 56258 150uL	50 ug/mL
SV Internal Standard	APPL	SV Internal Standard	2000 ug/mL	09/17/19	09/17/20	4 uL	*	*	*

Name of Final Standard **8270 Full Scan Spike**
 Prep Date 09/17/19
 Exp Date 09/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	020119 - 41134	09/17/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	041619 - 41139	09/17/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	031618 - 41144	09/17/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	032018 - 40934	09/17/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	030119 - 41149	09/17/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	080116 - 40939	09/17/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	051719 - 41154	09/17/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	020818 - 41159	09/17/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	081418 - 40944	09/17/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	053119 - 49277	09/17/20	1.0 mL	*	*	various

Name of Final Standard **8270 Internal Standard Ampules (2)**
 Prep Date 09/17/19
 Exp Date 09/17/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Semivolatiles Internal Standard	Restek	31206	2000ug/mL	A0144261-40466 A0144261-40467	09/17/20	2 mL	2 mL	NA	2000ug/mL

Name of Final Standard **8270 SS STOCK**
 Prep Date **03/05/19**
 Exp Date **01/08/20**

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

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
10001	Absolute	10001	2000	031618-39202	03/05/20	1.0 mL	10 mL	NA	200 ug/mL
10002	Absolute	10002	2000	G34-020217-38182	02/02/20	1.0 mL	*	*	200 ug/mL
10004	Absolute	10004	2000	010815-38625	01/08/20	1.0 mL	*	*	200 ug/mL
10005	Absolute	10005	2000	041317-37804	03/05/20	1.0 mL	*	*	200 ug/mL
10006	Absolute	10006	2000	011718-38827	03/05/20	1.0 mL	*	*	200 ug/mL
10007	Absolute	10007	2000	020515-38627	02/05/20	1.0 mL	*	*	200 ug/mL
10018	Absolute	10018	2000	G34-030216-38195	03/05/20	1.0 mL	*	*	200 ug/mL
70023	Absolute	70023	1000	013118-38830	03/05/20	1.0 mL	*	*	100 ug/mL
82705	Absolute	82705	2000	090617-38832	03/05/20	1.0 mL	*	*	200 ug/mL
94552	Absolute	94552	various	013118-40453	01/31/20	1.0 mL	*	*	various

Name of Final Standard **8270 Surrogate 200/400 ppm**
 Prep Date **07/10/19**
 Exp Date **06/24/20**

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

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
8270 Acid Surrogate Mix	Restek	33029	10,000 ug/mL	A0141104-39902	06/24/20	200 uL	5 mL	MC 56258 4,600 uL	400 ug/mL
8270 B/N Surrogate Mix	Restek	31086	5000 ug/mL	A0141697-40114	06/24/20	200 uL	*	*	200 ug/mL

Name of Final Standard **Semivolatle (SV) Tuning Solution**
 Prep Date **10/01/19**
 Exp Date **11/30/20**

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

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

Injection Log

Directory: M:\YODA\DATA\Y191030\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	92	1015Y002.D	1	SV TUNE	10/01/19	15 Oct 19 8:30
2	4	1015Y004.D	1	4ug/ml 8270	10/11/19	15 Oct 19 10:16
3	5	1015Y005.D	1	5ug/ml 8270	10/11/19	15 Oct 19 10:44
4	6	1015Y006.D	1	10ug/ml 8270	10/11/19	15 Oct 19 11:13
5	7	1015Y007.D	1	20ug/ml 8270	10/11/19	15 Oct 19 11:41
6	8	1015Y008.D	1	40ug/ml 8270	10/11/19	15 Oct 19 12:09
7	9	1015Y009.D	1	60ug/ml 8270	10/11/19	15 Oct 19 12:38
8	10	1015Y010.D	1	80ug/ml 8270	10/11/19	15 Oct 19 13:06
9	11	1015Y011.D	1	100ug/ml 8270	10/11/19	15 Oct 19 13:35
10	13	1015Y013.D	1	50ug/ml 8270	10/11/19	15 Oct 19 14:58
11	14	1015Y014.D	1	SS 8270	10/11/19	15 Oct 19 15:26
12	94	1030Y194.D	1	SV TUNE	10/01/19	5 Nov 19 10:36
13	95	1030Y195.D	1	50ug/ml 8270	10/24/19 (3)	5 Nov 19 10:52
14	96	1030Y196.D	1.25	191029A BLK	1/800	5 Nov 19 11:27
15	97	1030Y197.D	1.25	191029A LCS-1	1/800	5 Nov 19 11:55
16	98	1030Y198.D	1.25	191029A LCSD-1	1/800	5 Nov 19 12:24
17	17	1030Y217.D	1.25	BA01829W11	1/800	5 Nov 19 21:20
18	18	1030Y218.D	1.25	BA01831W17	1/800	5 Nov 19 21:48
19	19	1030Y219.D	1.25	BA01833W14	1/800	5 Nov 19 22:16
20	20	1030Y220.D	1	50ug/ml 8270	10/24/19 (2)	5 Nov 19 22:45

ORGANICS
Calibration Data

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/31/19
Instrument: Linus

Initials: MA/

1030L004.D 1030L005.D 1030L006.D 1030L007.D 1030L008.D 1030L009.D 1030L010.D 1030L011.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TM 2-(2-Methoxyethoxy)ethanol	0.1255	0.1270	0.1199	*	0.1601	0.1377	0.1599	0.1385			0.14	12	TM			
3	I Napthalene-D8(IS)																
4	I Acenaphthene-D10(IS)																
5	I Phenanthrene-D10(IS)																
6	I Chrysene-D12(IS)																
7	I Perylene-D12(IS)																
8																	
9																	
10																	
11																	
12																	
13	* It was concentrated. Deleted from the ICAL																
14																	
15																	
16																	
17																	
18																	
19																	
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21																	
22																	
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30																	
31																	
32																	
33																	
34																	
35																	

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L004.D Vial: 4
 Acq On : 31 Oct 19 11:50 Operator: MA
 Sample : 50 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 12:28 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	924546	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3824592	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1847509	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3070665	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.42	240	2379935	40.00000	ppb	0.02
7) Perylene-D12 (IS)	10.65	264	2480690	40.00000	ppb	0.06

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.19	45	145043m	63.19099	ppb	98

Quantitation Report

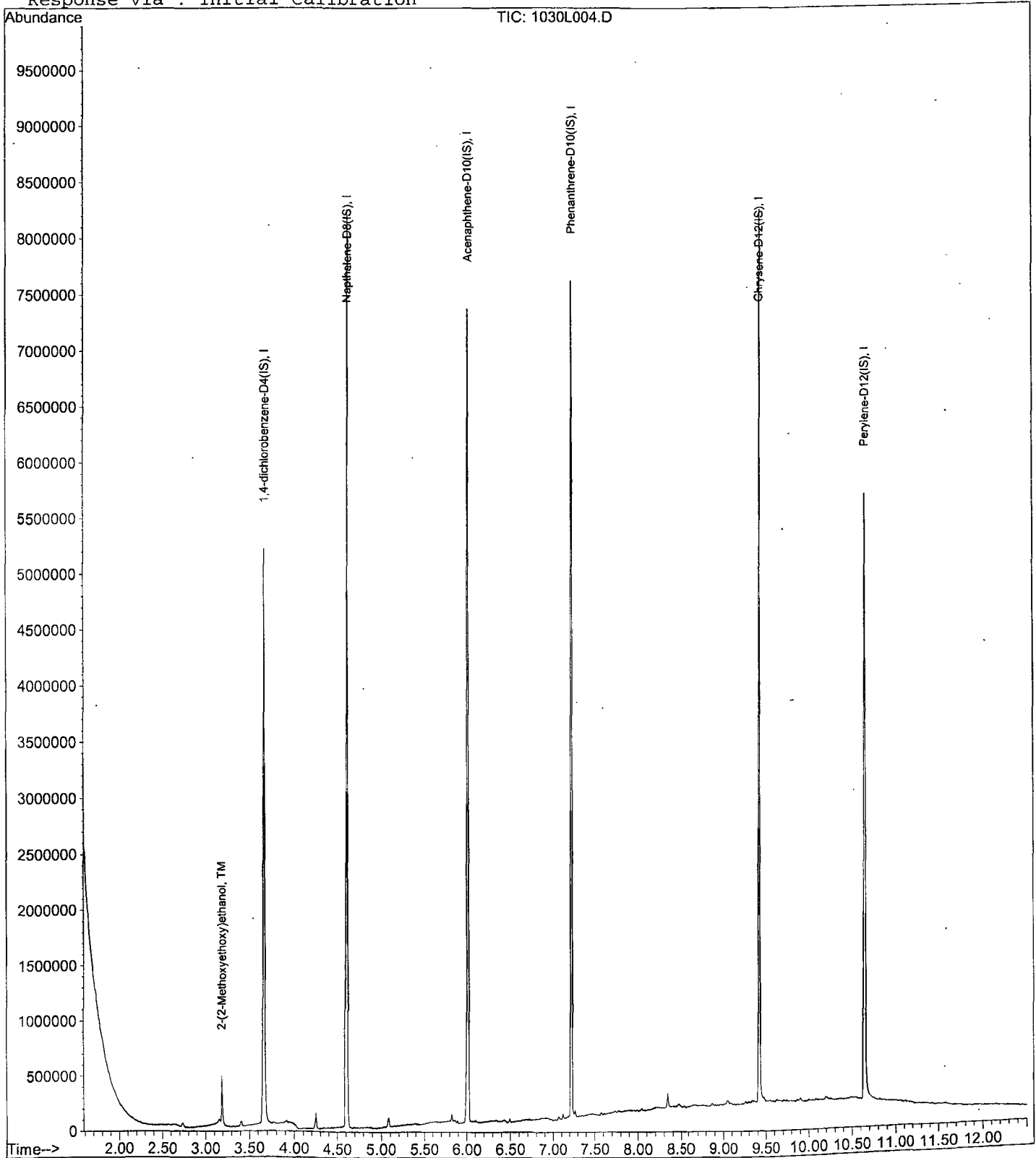
Data File : M:\LINUS\DATA\L191030M\1030L004.D
Acq On : 31 Oct 19 11:50
Sample : 50 2MEE 4/30/19
Misc :

Vial: 4
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 12:28 2019

Quant Results File: YMEE1030.RES

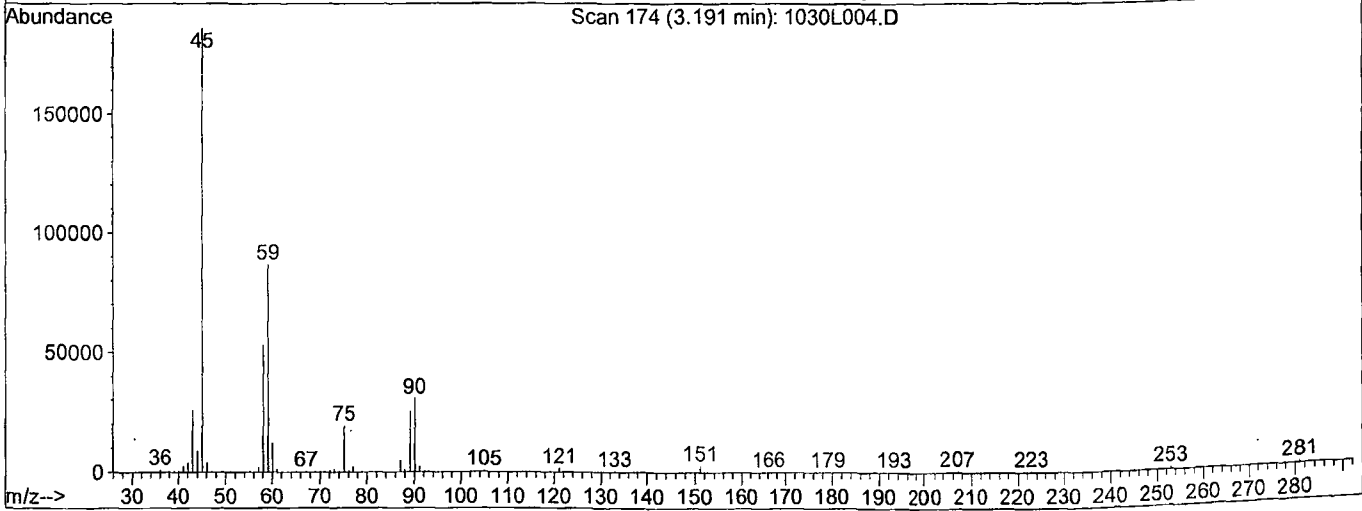
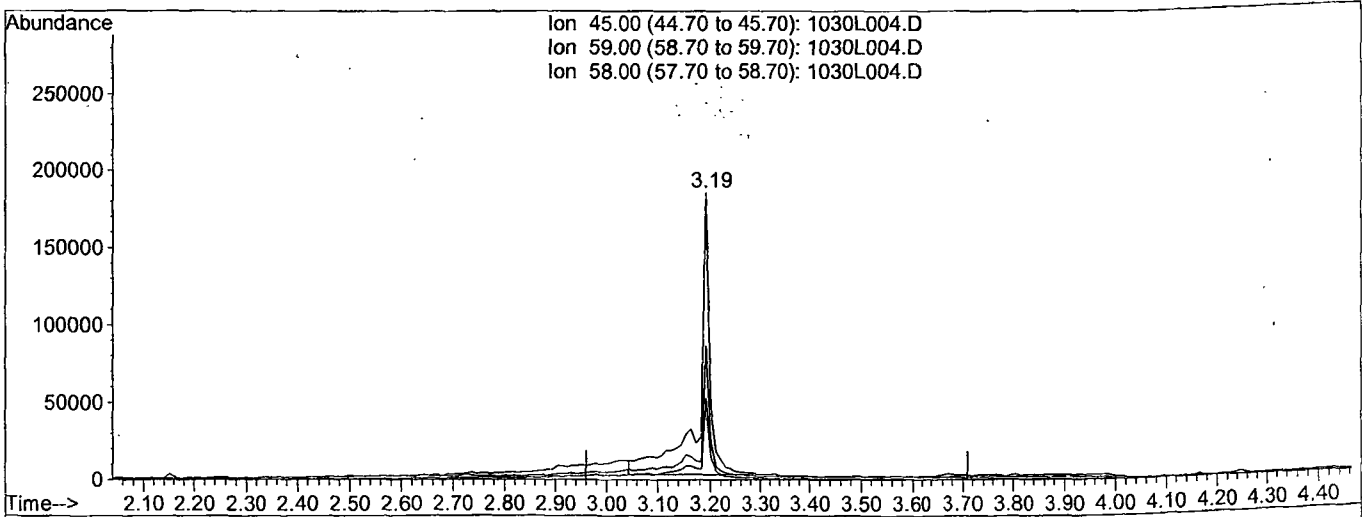
Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D Vial: 4
 Acq On : 31 Oct 19 11:50 Operator: MA
 Sample : 50 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00
 Quant Time: Oct 31 12:04 2019 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 99.2279ppb

response 284001

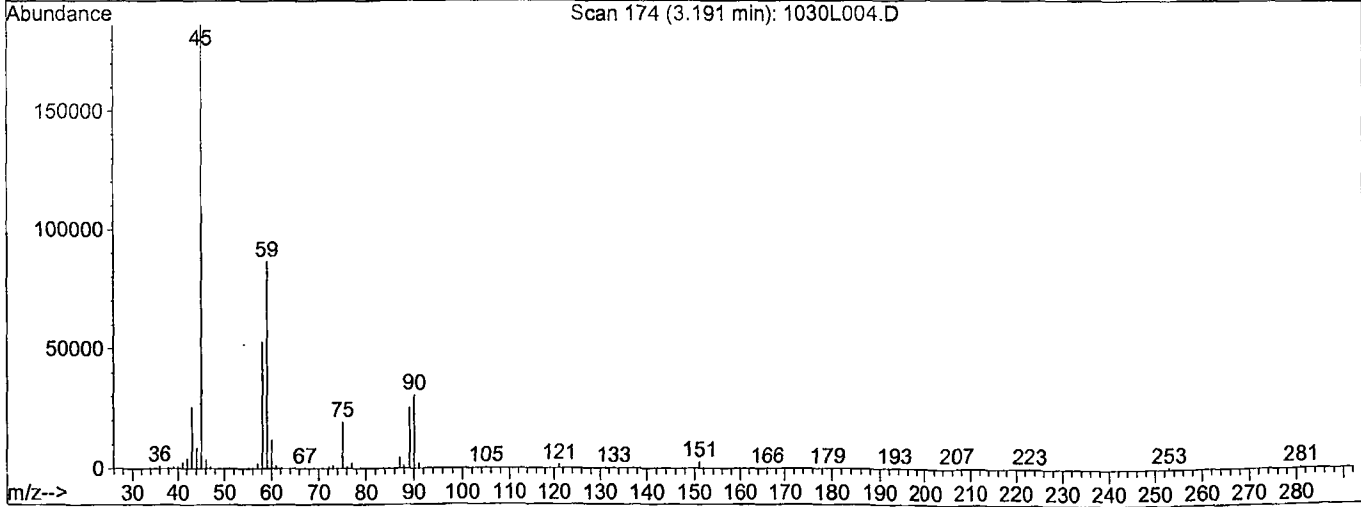
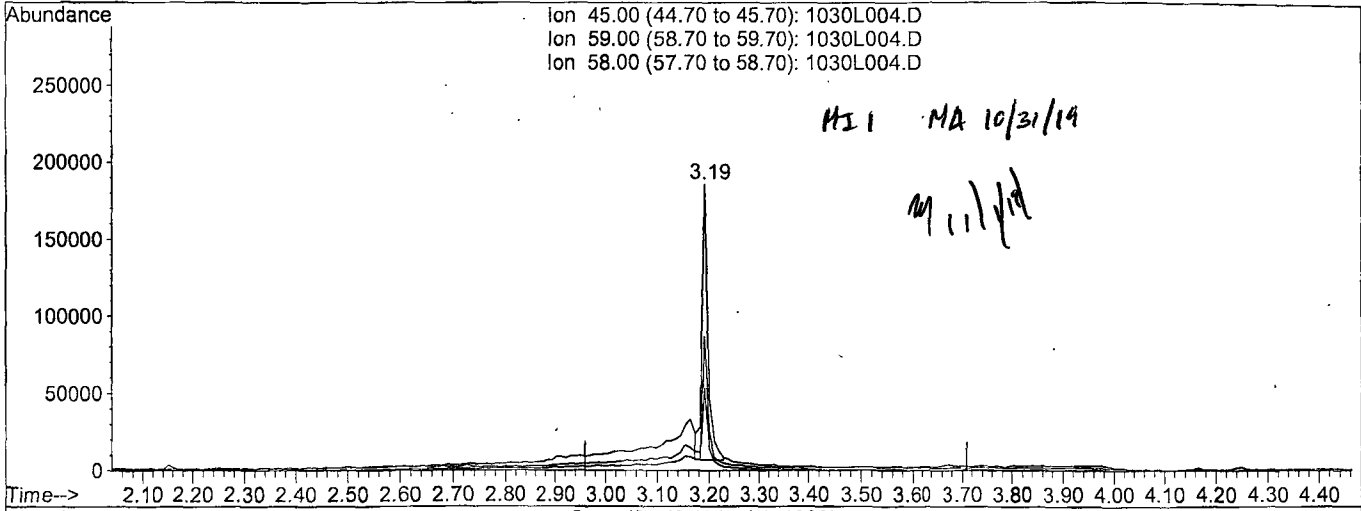
Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L004.D
 Acq On : 31 Oct 19 11:50
 Sample : 50 2MEE 4/30/19
 Misc :
 Quant Time: Oct 31 12:28 2019

Vial: 4
 Operator: MA
 Inst : Linus
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 11:46:50 2019
 Response via : Multiple Level Calibration



TIC: 1030L004.D

(2) 2-(2-Methoxyethoxy)ethanol (TM)

3.19min 63.1910ppb m

response 145043

Ion	Exp%	Act%
45.00	100	100
59.00	48.10	46.59
58.00	29.40	28.49
0.00	0.00	0.00

Data File : M:\LINUS\DATA\L191030M\1030L005.D Vial: 5
 Acq On : 31 Oct 19 12:10 Operator: MA
 Sample : 100 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:29 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	802143	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3947022	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1905798	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3352515	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2935825	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2243163	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.19	45	254665	101.69486	ppb	.93

Quantitation Report

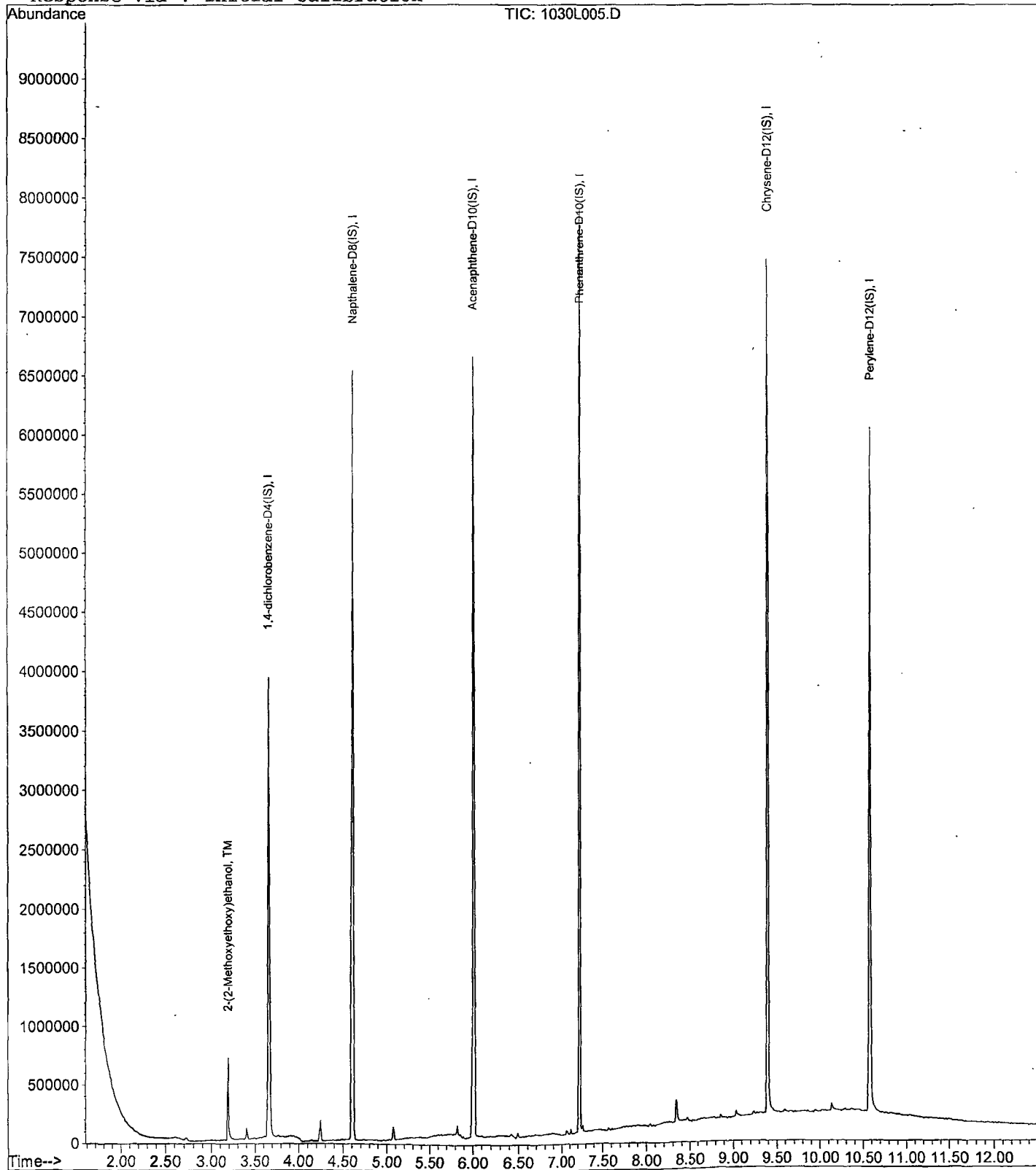
Data File : M:\LINUS\DATA\L191030M\1030L005.D
Acq On : 31 Oct 19 12:10
Sample : 100 2MEE 4/30/19
Misc :

Vial: 5
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:29 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L006.D Vial: 6
 Acq On : 31 Oct 19 12:29 Operator: MA
 Sample : 200 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	867176	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3930052	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2009214	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3319659	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	3235629	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.58	264	2613264	40.00000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	519817	166.78709	ppb	99

Quantitation Report

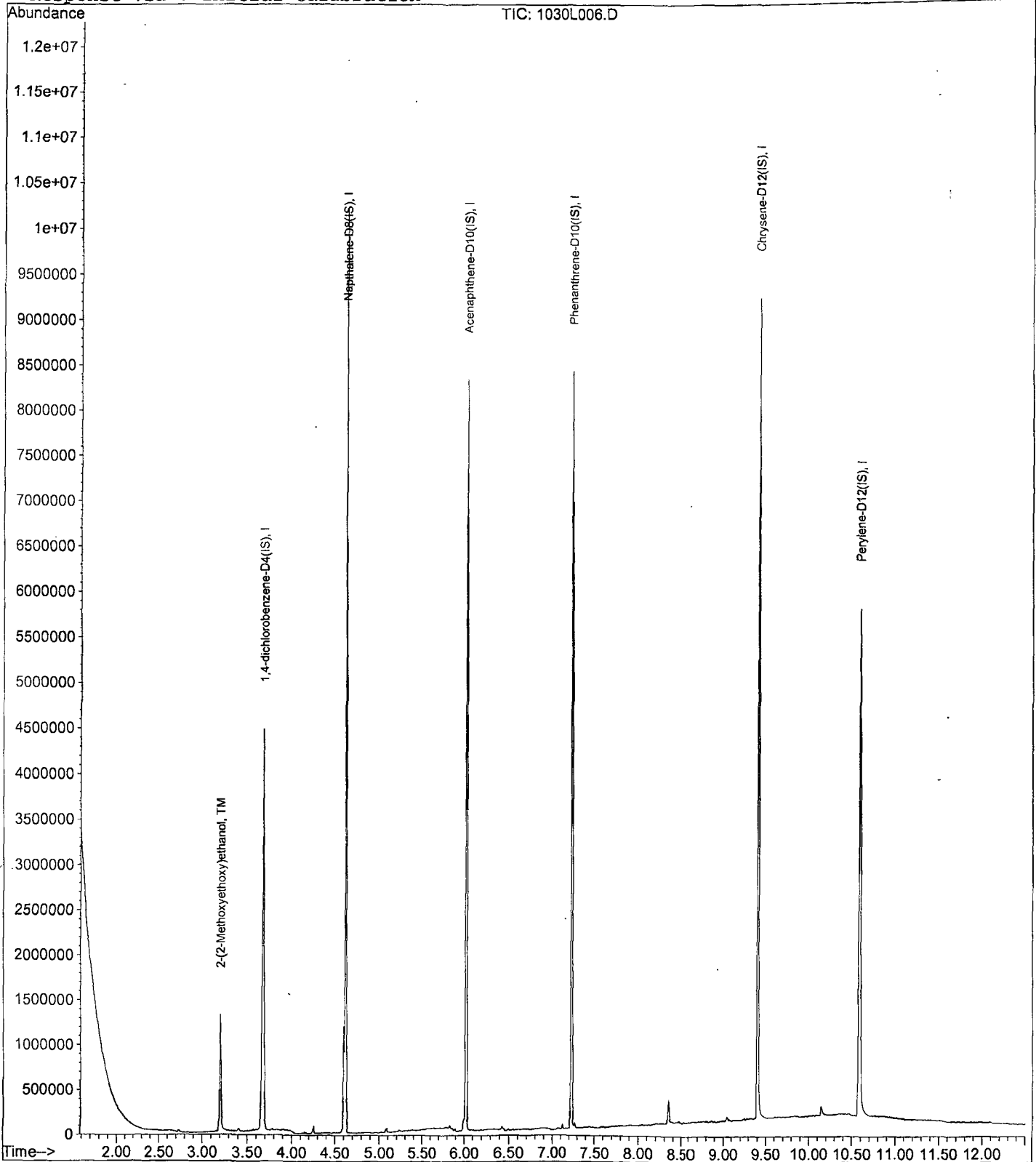
Data File : M:\LINUS\DATA\L191030M\1030L006.D
Acq On : 31 Oct 19 12:29
Sample : 200 2MEE 4/30/19
Misc :

Vial: 6
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
 Acq On : 31 Oct 19 12:49 Operator: MA
 Sample : 400 2MEE 4/30/19 not used. It got concen Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	768222	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3846001	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2102228	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3529522	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2845578	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2568289	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	1438559	476.21754	ppb	94

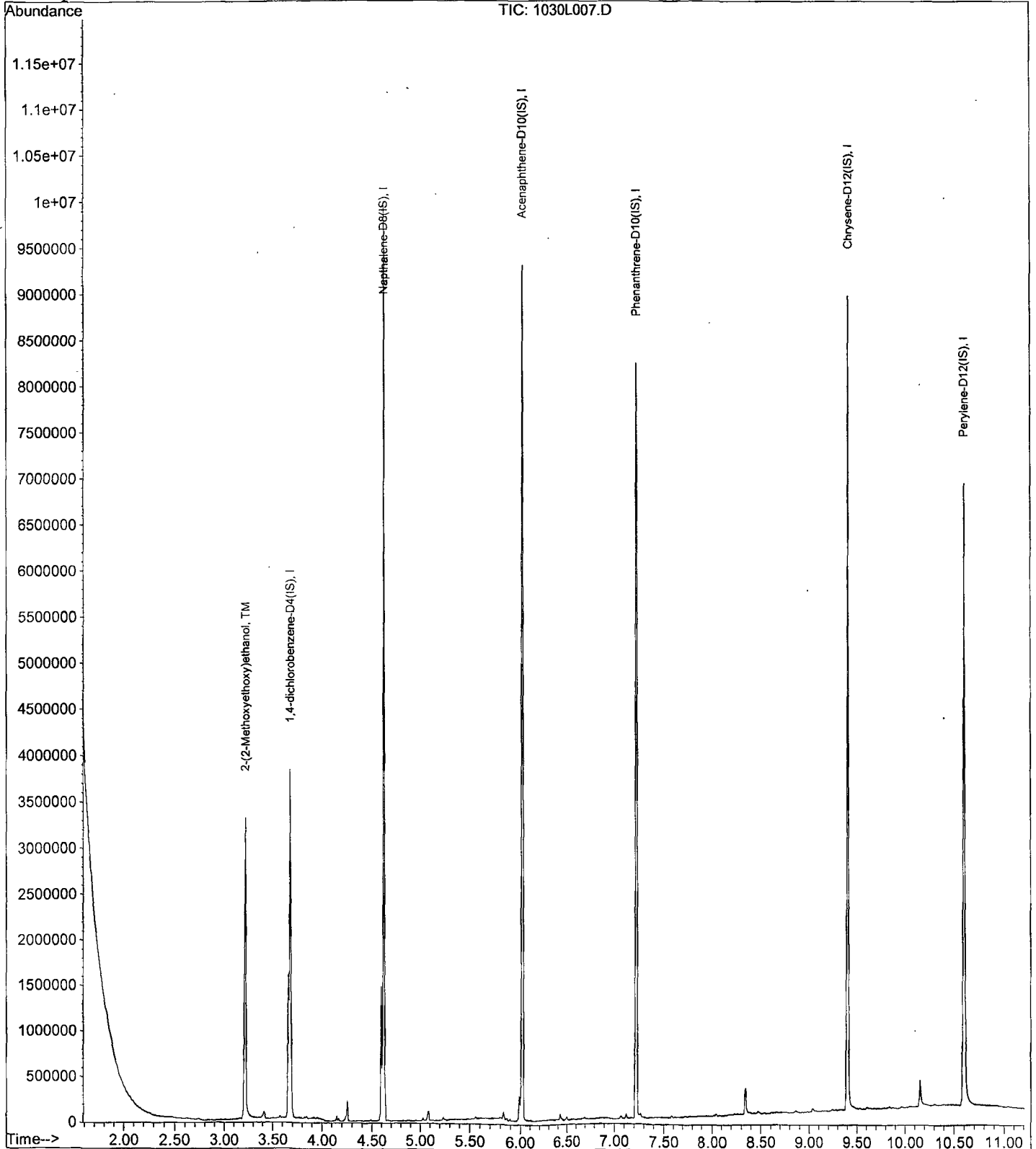
Quantitation Report

Data File : M:\LINUS\DATA\L191030M\1030L007.D Vial: 7
Acq On : 31 Oct 19 12:49 Operator: MA
Sample : 400 2MEE 4/30/19 not used. It got concn Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 31 13:30 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L008.D Vial: 8
 Acq On : 31 Oct 19 13:07 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:14 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 14:14:39 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	772292	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3394425	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	1712966	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2832000	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2510708	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2441015	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.21	45	1545173	578.42618	ppb	100

Quantitation Report

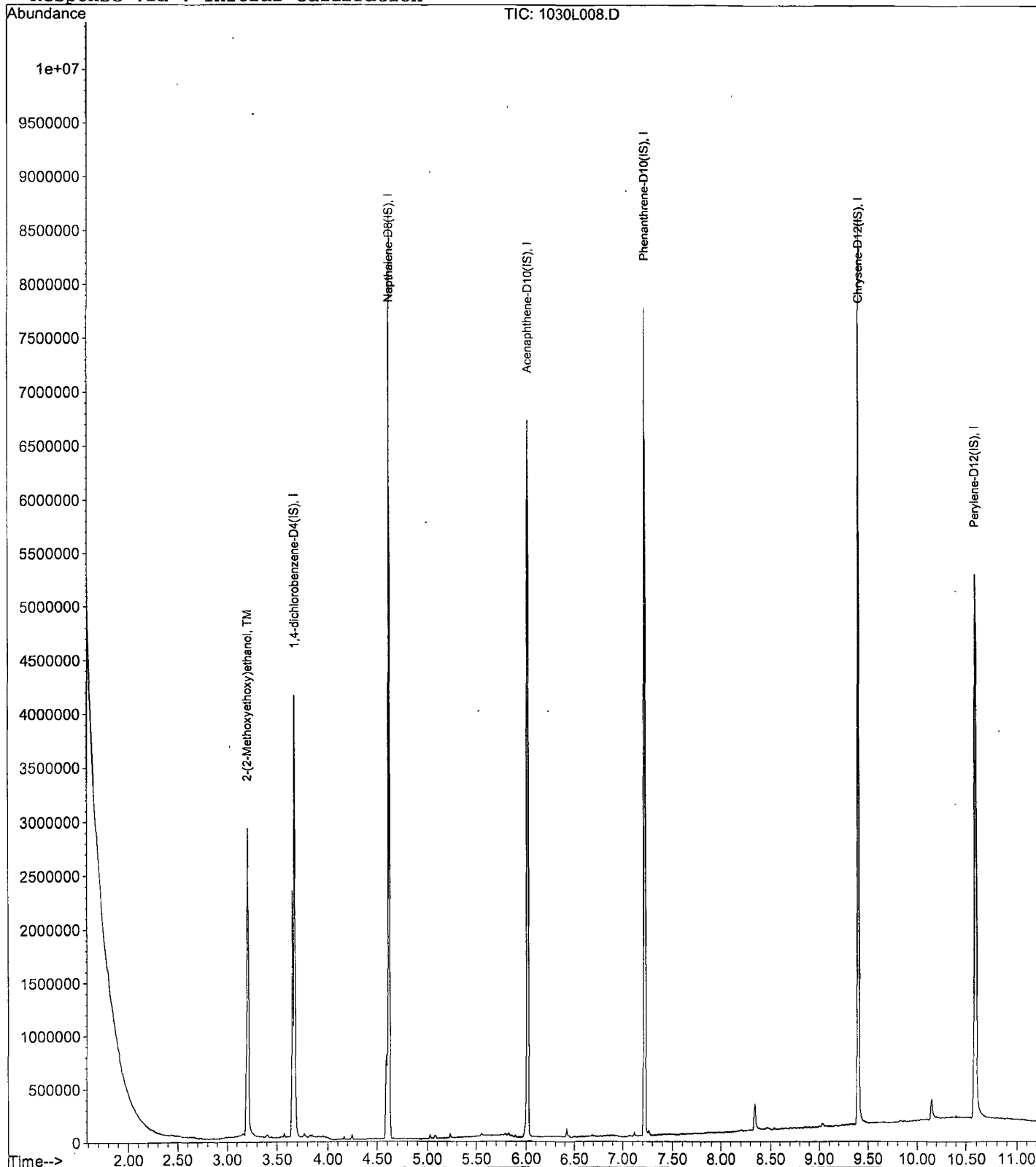
Data File : M:\LINUS\DATA\L191030M\1030L008.D
Acq On : 31 Oct 19 13:07
Sample : 500 2MEE 4/30/19
Misc :

Vial: 8
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:14 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L009.D Vial: 9
 Acq On : 31 Oct 19 13:25 Operator: MA
 Sample : 600 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 13:40 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	918679	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3995417	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2035544	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3476903	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2887642	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	2390309	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	1897302	517.69156	ppb	98

Quantitation Report

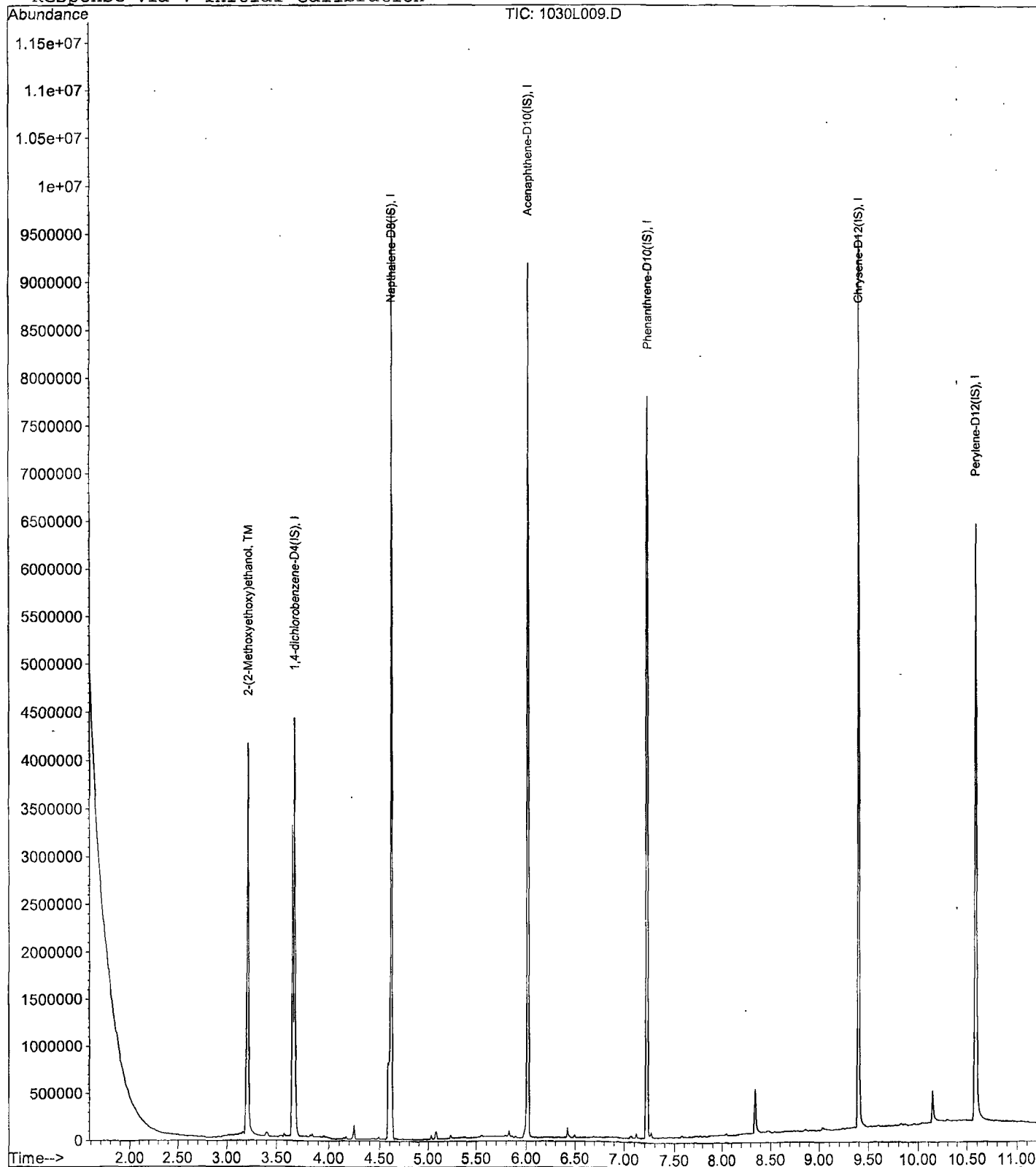
Data File : M:\LINUS\DATA\L191030M\1030L009.D
Acq On : 31 Oct 19 13:25
Sample : 600 2MEE 4/30/19
Misc :

Vial: 9
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 13:40 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L010.D Vial: 10
 Acq On : 31 Oct 19 13:43 Operator: MA
 Sample : 800 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:12 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	781913	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3819124	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2060420	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	3432435	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	3218071	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.61	264	2421844	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.23	45	2499934	802.74185	ppb	98

Quantitation Report

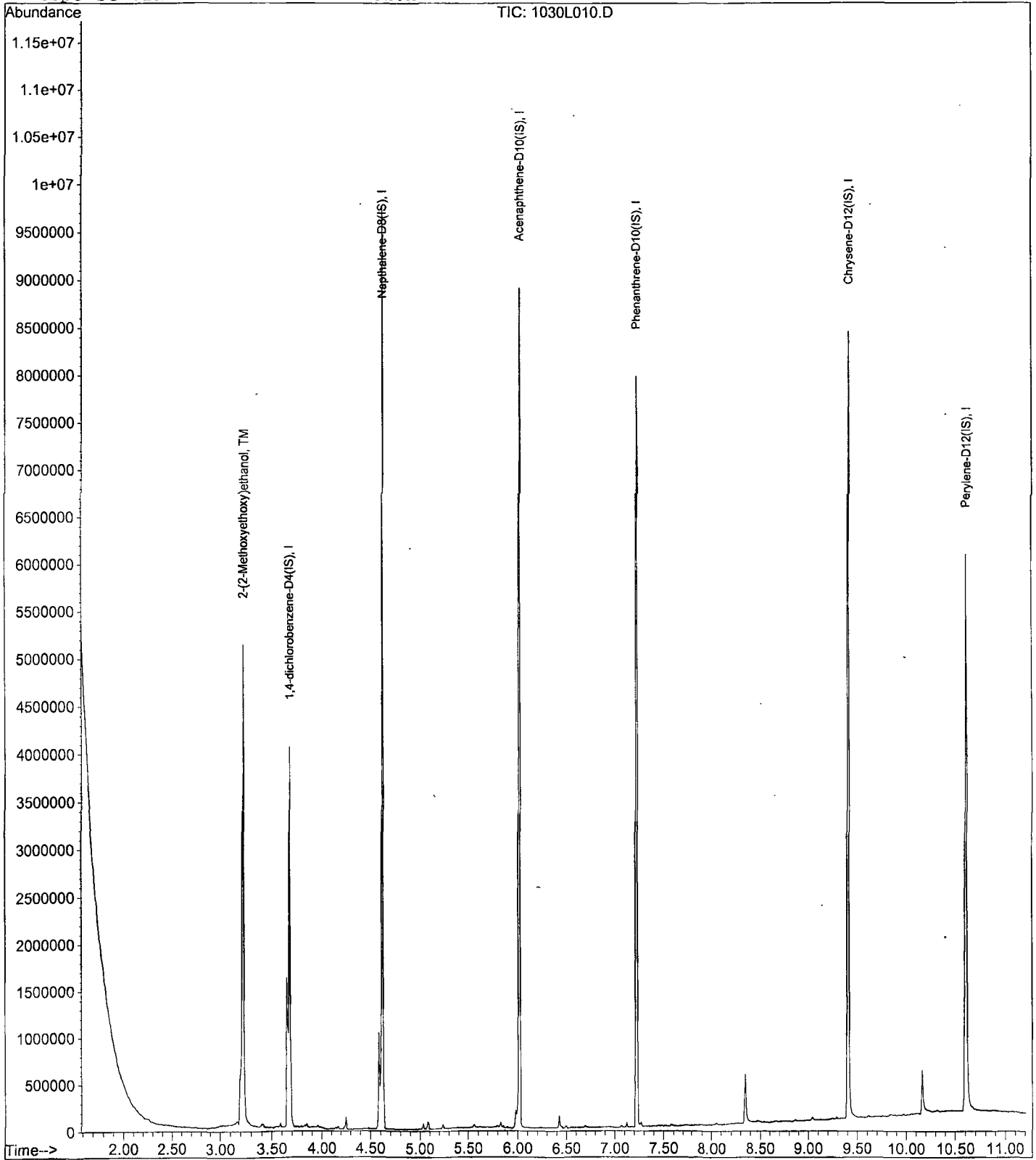
Data File : M:\LINUS\DATA\L191030M\1030L010.D
Acq On : 31 Oct 19 13:43
Sample : 800 2MEE 4/30/19
Misc :

Vial: 10
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:12 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L011.D Vial: 11
 Acq On : 31 Oct 19 14:02 Operator: MA
 Sample : 1000 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 31 14:13 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Oct 31 13:28:52 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	893999	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4002209	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2003789	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3346119	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2853107	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.60	264	2370540	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.23	45	3096034	880.60620	ppb	98

Quantitation Report

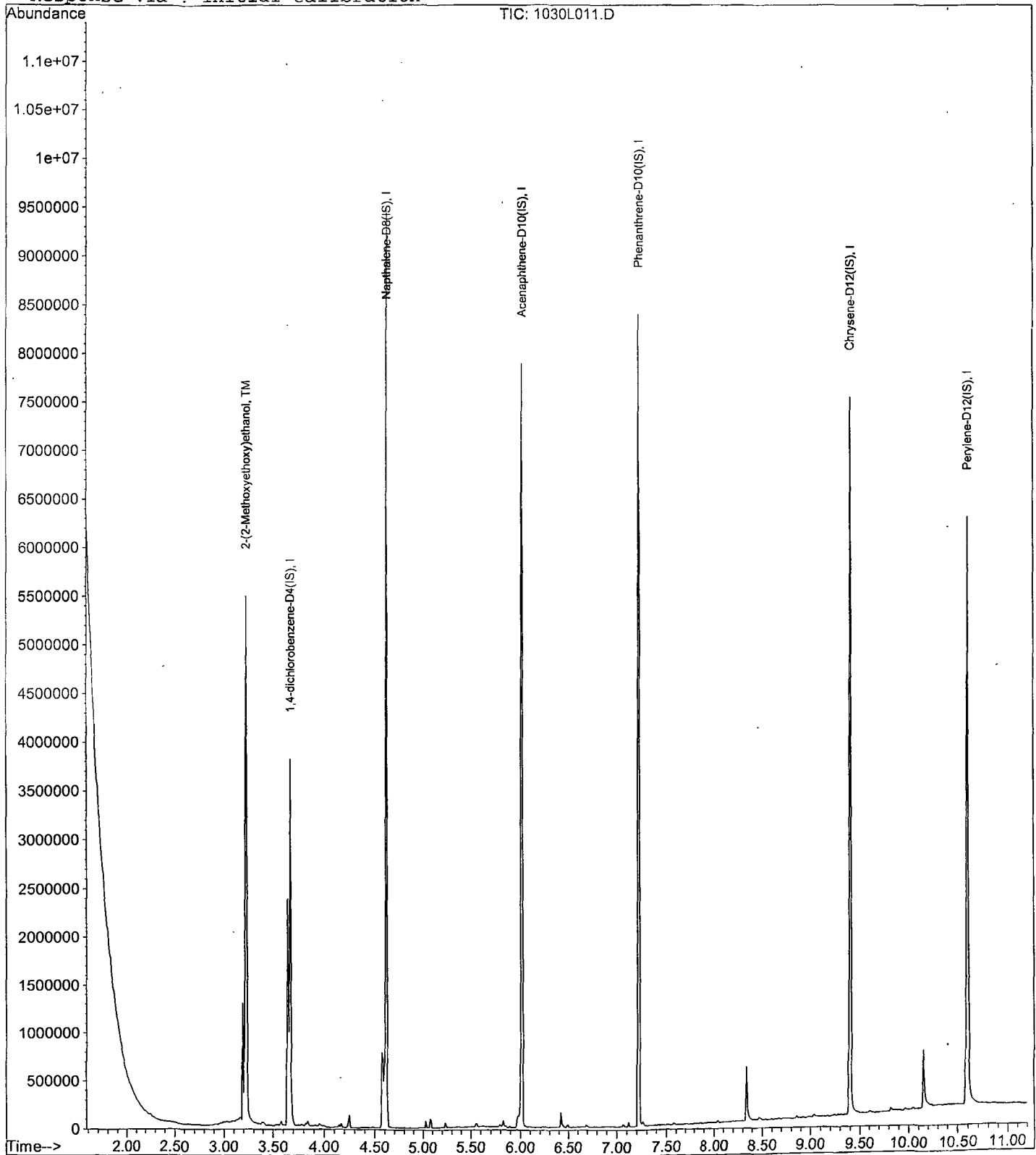
Data File : M:\LINUS\DATA\L191030M\1030L011.D
Acq On : 31 Oct 19 14:02
Sample : 1000 2MEE 4/30/19
Misc :

Vial: 11
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 31 14:13 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Oct 31 14:18:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Secon Source Continuing Calibration

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

SDG No: _____
Date Analyzed: 1 Nov 19 17:11
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L016.D

	Compound	MEAN	CCRF	%D	%Drift
1	| 1,4-dichlorobenzene-D4(IS)	ISTD			|
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1658	20	TM
3	| Napthalene-D8(IS)	ISTD			|
4	| Acenaphthene-D10(IS)	ISTD			|
5	Phenanthrene-D10(IS)	ISTD			
6	Chrysene-D12(IS)	ISTD			
7	Perylene-D12(IS)	ISTD			
8					
9					
10					
11					
12					
13					
14					
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38					
39					
40	Average			20.0	

Data File : M:\LINUS\DATA\L191030M\1030L016.D Vial: 16
 Acq On : 1 Nov 19 17:11 Operator: MA
 Sample : SS 2MEE 11/1/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 1 17:27 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:06:59 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	966230	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4151555	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.02	164	2209408	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.23	188	4025811	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2795621	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	3078419	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.20	45	2003024	599.31894	ppb	100

Quantitation Report

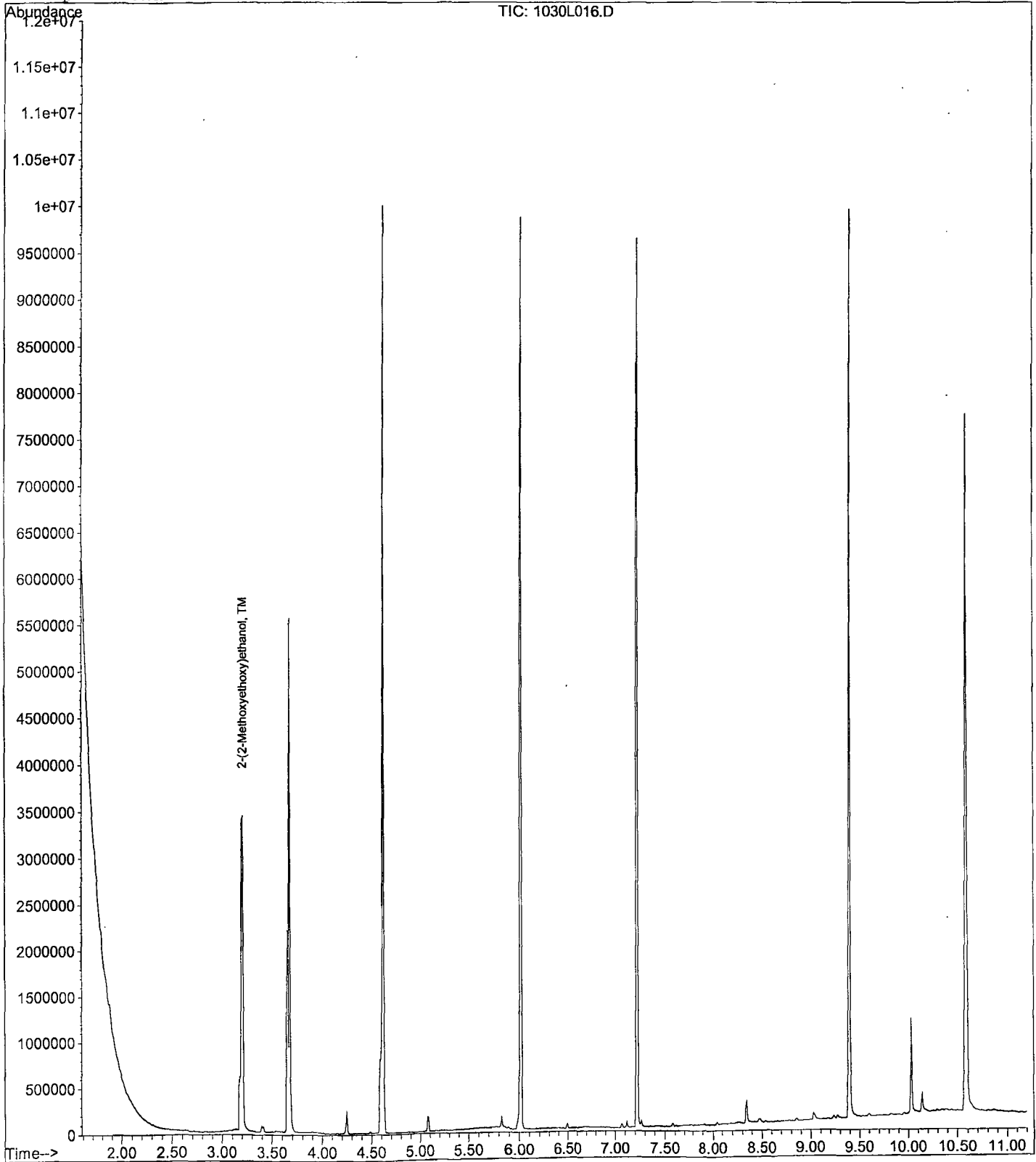
Data File : M:\LINUS\DATA\L191030M\1030L016.D
Acq On : 1 Nov 19 17:11
Sample : SS 2MEE 11/1/19
Misc :

Vial: 16
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 1 17:27 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 8 Nov 19 13:13
Instrument: Linus
Initial Cal. Date: 10/31/19
Data File: 1030L042.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM	2-(2-Methoxyethoxy)ethanol	0.1384	0.1387	0.23	TM
3	I	Napthalene-D8(IS)	ISTD			I
4	I	Acenaphthene-D10(IS)	ISTD			I
5	I	Phenanthrene-D10(IS)	ISTD			I
6	I	Chrysene-D12(IS)	ISTD			I
7	I	Perylene-D12(IS)	ISTD			I
8						
9						
10						
11						
12						
13						
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40						

Average

0.2

Data File : M:\LINUS\DATA\L191030M\1030L042.D Vial: 42
 Acq On : 8 Nov 19 13:13 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 13:31 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	742292m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3312063	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1556563	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2759126	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.42	240	2199352	40.00000	ppb	0.02
7) Perylene-D12 (IS)	10.65	264	2536267	40.00000	ppb	0.05

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.20	45	1286778	501.16556	ppb	98

Quantitation Report

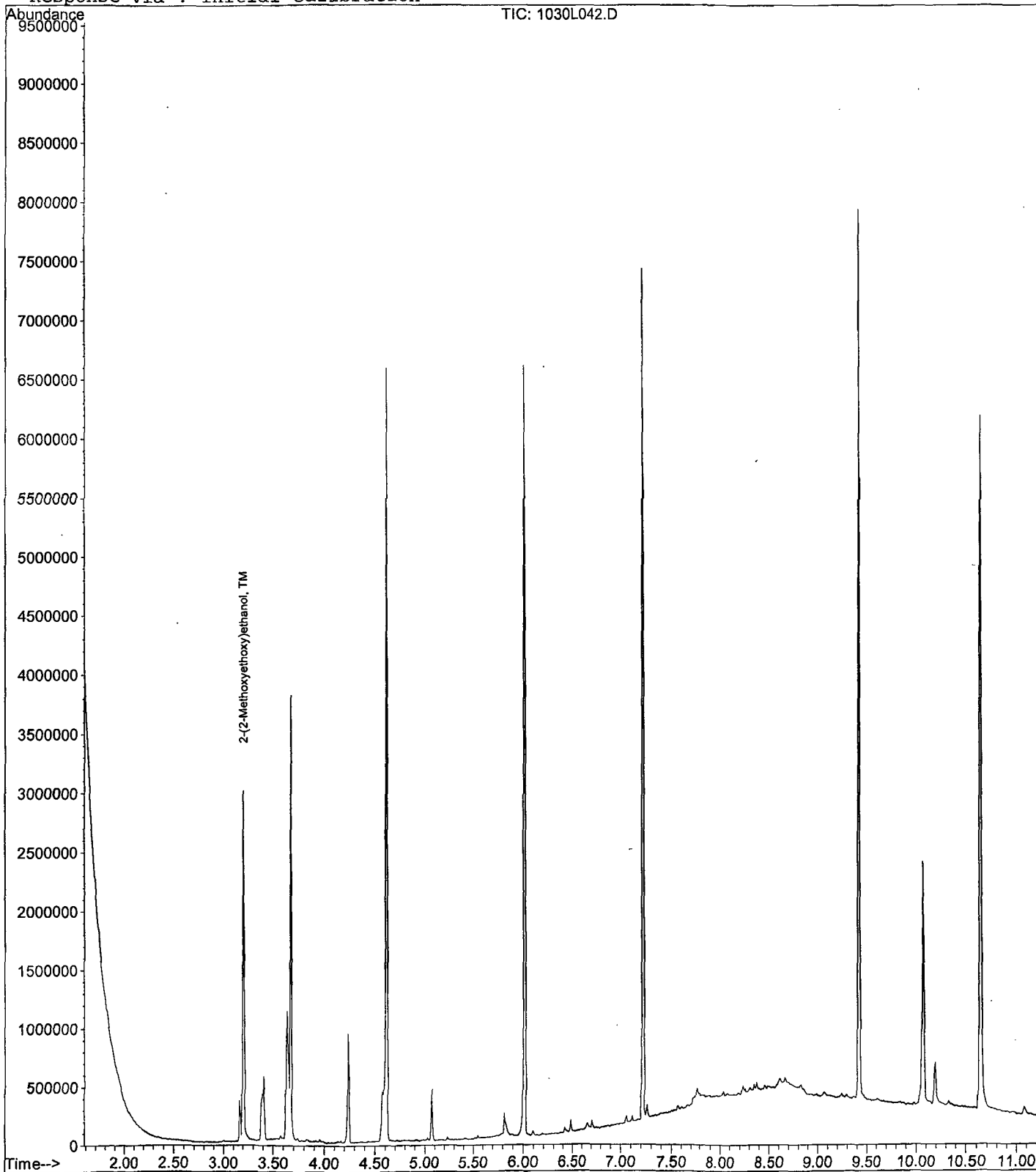
Data File : M:\LINUS\DATA\L191030M\1030L042.D
Acq On : 8 Nov 19 13:13
Sample : 500 2MEE 4/30/19
Misc :

Vial: 42
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 13:31 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 8 Nov 19 21:02

Matrix: _____

Instrument: Linus

Initial Cal. Date: 10/31/19

Data File: 1030L061.D

	Compound	MEAN	CCRF	%D	%Drift
1	I 1,4-dichlorobenzene-D4(IS)	ISTD			I
2	TM 2-(2-Methoxyethoxy)ethanol	0.1384	0.1103	20	TM
3	I Napthalene-D8(IS)	ISTD			I
4	I Acenaphthene-D10(IS)	ISTD			I
5	I Phenanthrene-D10(IS)	ISTD			I
6	I Chrysene-D12(IS)	ISTD			I
7	I Perylene-D12(IS)	ISTD			I
8					
9					
10					
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39					
40	Average			20.0	

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L191030M\1030L061.D Vial: 61
 Acq On : 8 Nov 19 21:02 Operator: MA
 Sample : 500 2MEE 4/30/19 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 11 9:47 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	772424m	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.61	136	3311191	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1654193	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3011207	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2583758	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2584578	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	3.19	45	1065305	398.72234	ppb	96

Quantitation Report

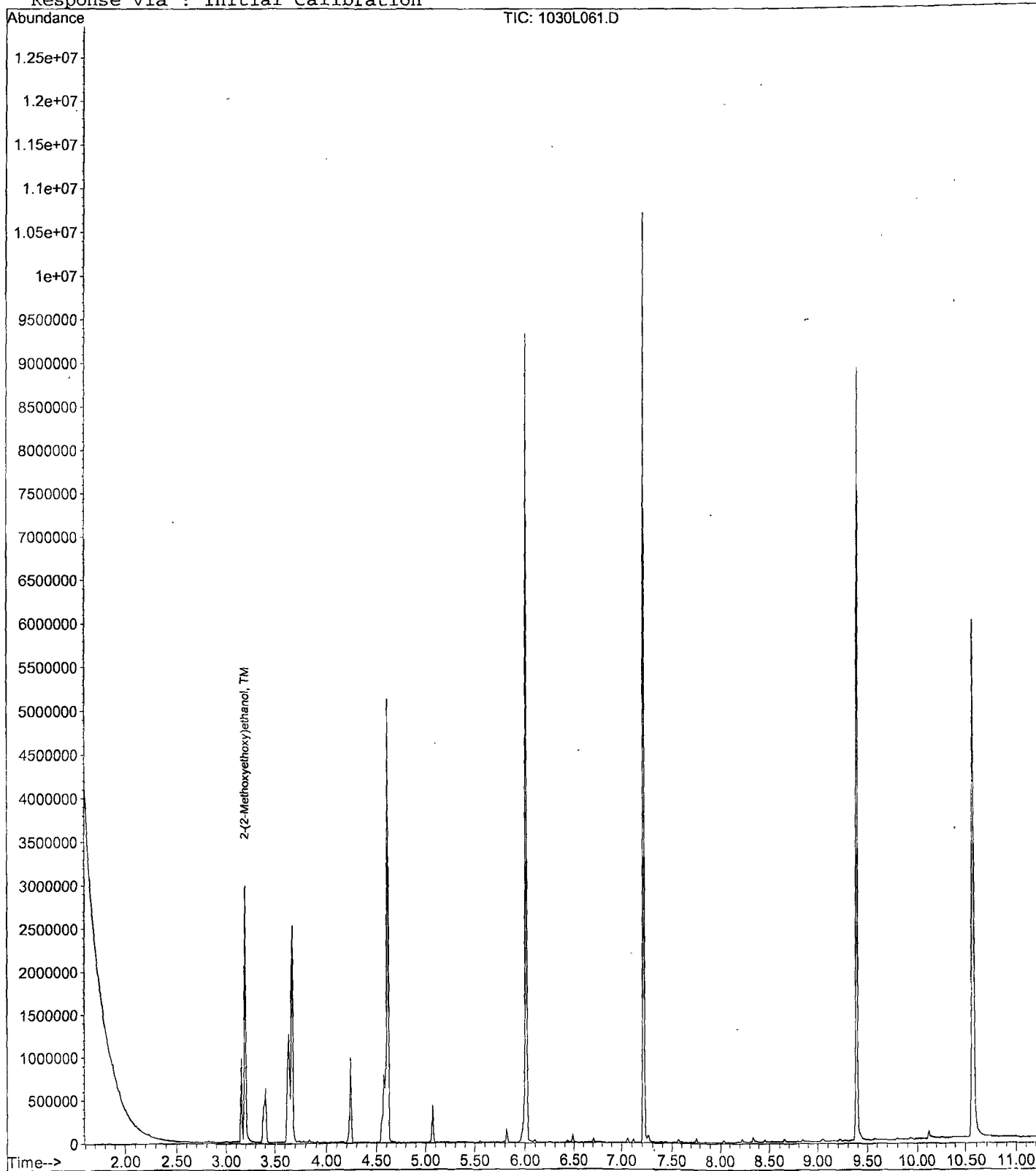
Data File : M:\LINUS\DATA\L191030M\1030L061.D
Acq On : 8 Nov 19 21:02
Sample : 500 2MEE 4/30/19
Misc :

Vial: 61
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 11 9:47 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\LINUS\DATA\L191030M\1030L046.D Vial: 46
 Acq On : 8 Nov 19 16:26 Operator: MA
 Sample : BA01829W08 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 17:18 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	713657	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3015436	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1385126	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2599403	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	2209887	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	2265785	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

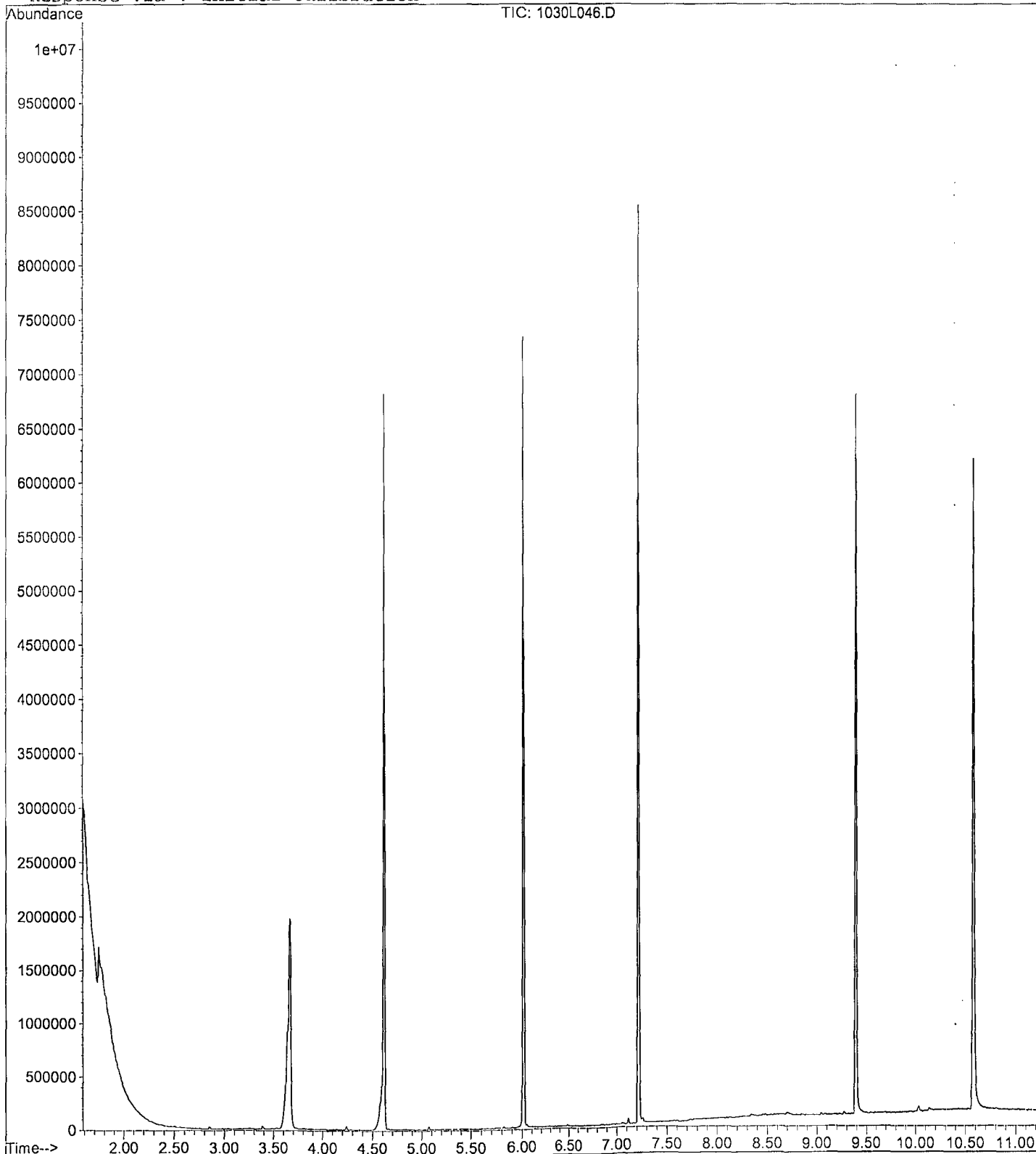
Data File : M:\LINUS\DATA\L191030M\1030L046.D
Acq On : 8 Nov 19 16:26
Sample : BA01829W08 2/500
Misc :

Vial: 46
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 17:18 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L048.D Vial: 48
 Acq On : 8 Nov 19 17:03 Operator: MA
 Sample : BA01831W11 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 17:19 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	650281	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	2611269	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1342463	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2560699	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.40	240	1999259	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.59	264	2136441	40.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

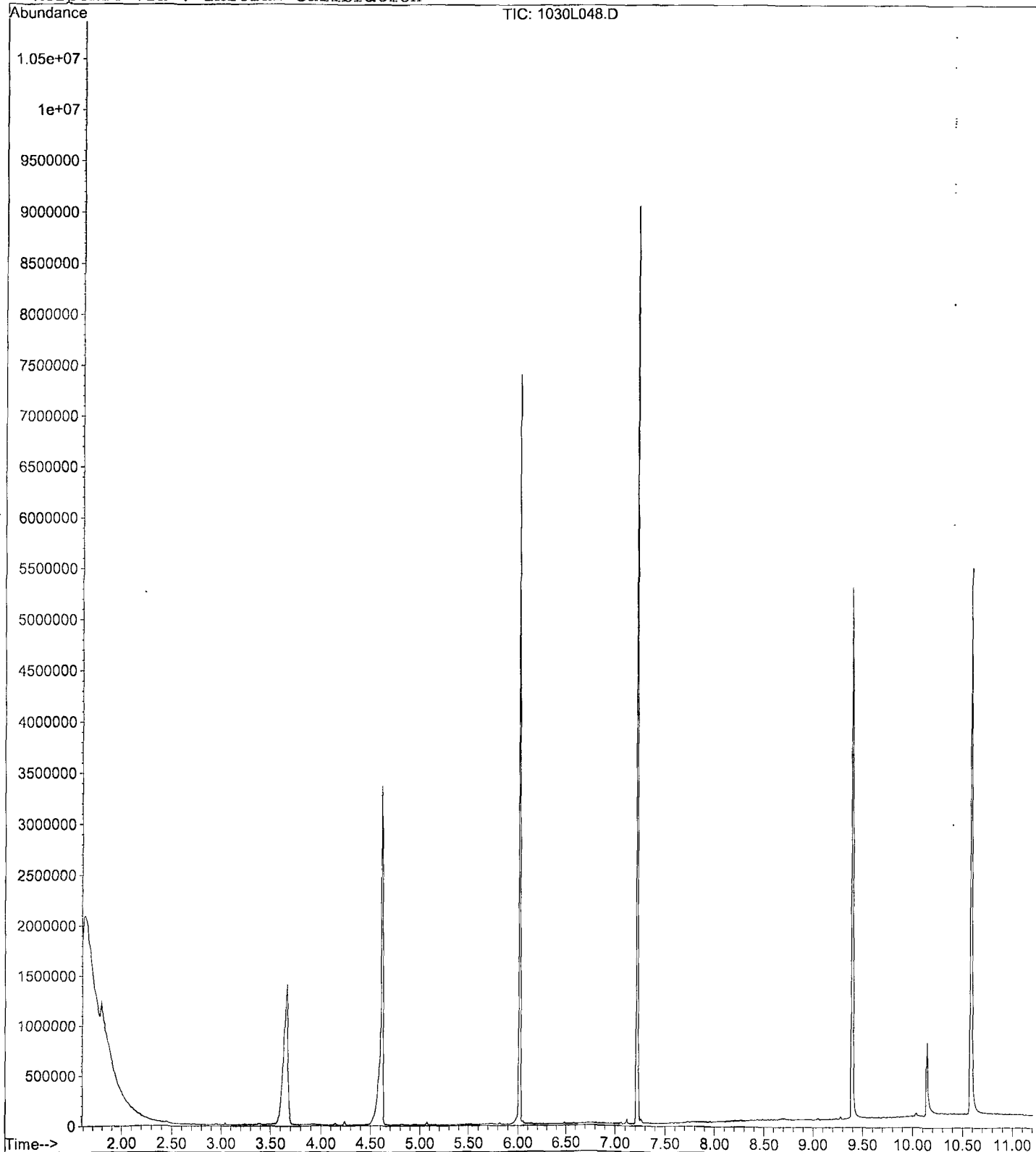
Data File : M:\LINUS\DATA\L191030M\1030L048.D
Acq On : 8 Nov 19 17:03
Sample : BA01831W11 2/500
Misc :

Vial: 48
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 17:19 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L049.D Vial: 49
 Acq On : 8 Nov 19 17:22 Operator: MA
 Sample : BA01833W12 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 11 9:44 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	698575	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	2888161	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1372751	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2687420	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.39	240	2120566	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.57	264	2116813	40.00000	ppb	-0.03

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

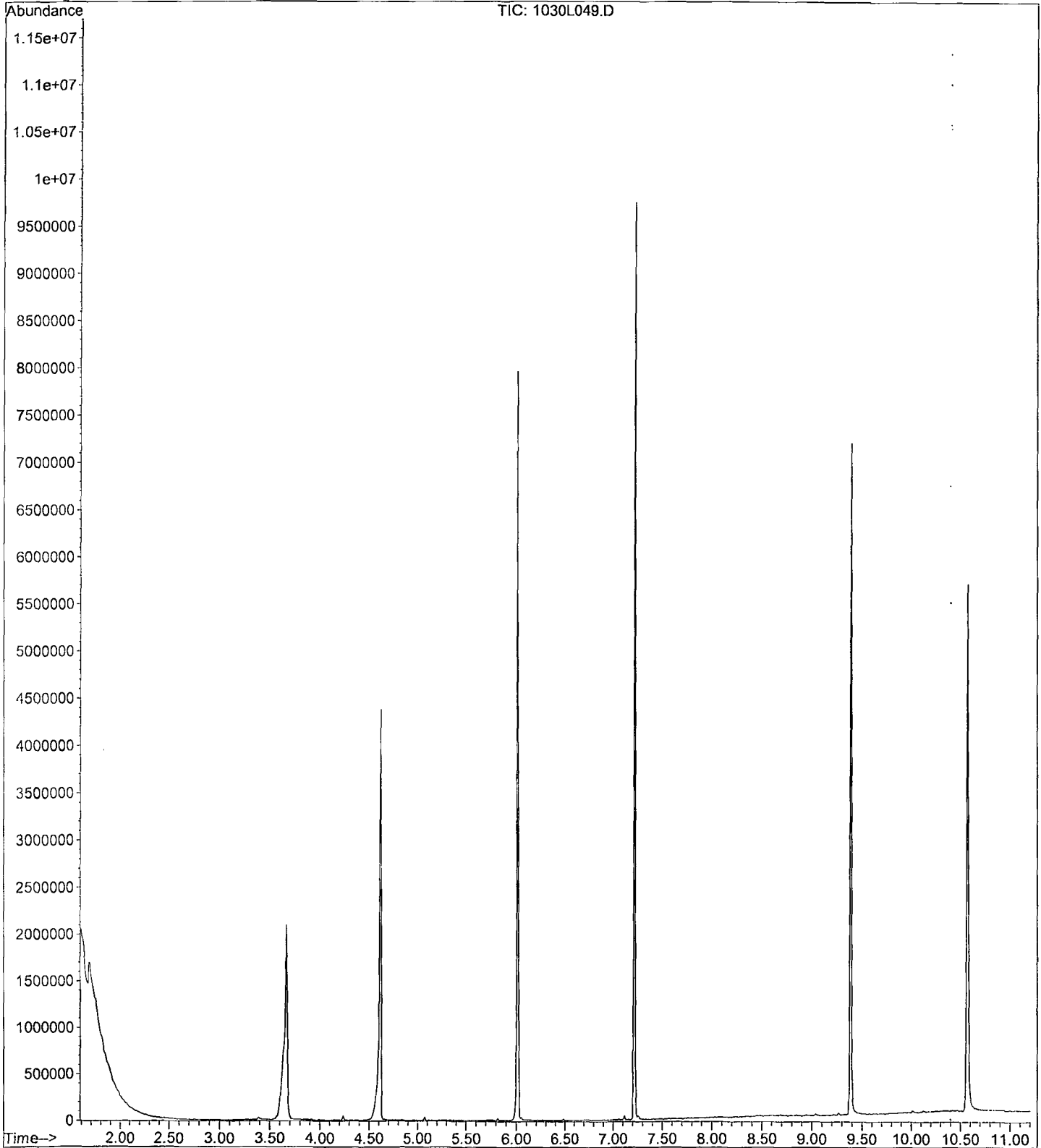
Data File : M:\LINUS\DATA\L191030M\1030L049.D
Acq On : 8 Nov 19 17:22
Sample : BA01833W12 2/500
Misc :

Vial: 49
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 11 9:44 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L043.D Vial: 43
 Acq On : 8 Nov 19 14:21 Operator: MA
 Sample : 191031A BLK 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 16:32 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.67	152	699122	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3106332	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1436563	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2646764	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.44	240	2042225	40.00000	ppb	0.04
7) Perylene-D12 (IS)	10.68	264	2139011	40.00000	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

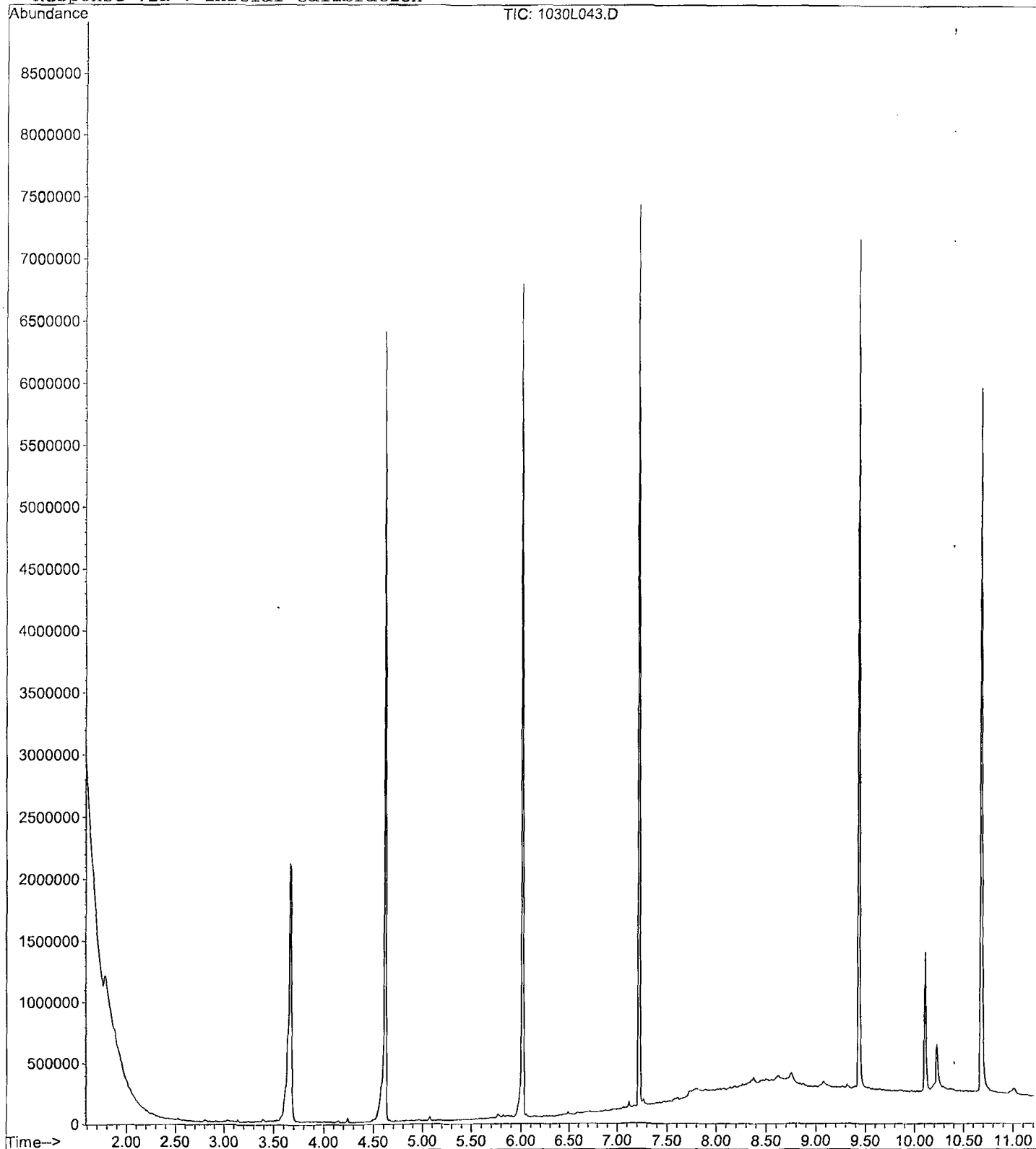
Data File : M:\LINUS\DATA\L191030M\1030L043.D
Acq On : 8 Nov 19 14:21
Sample : 191031A BLK 2/500
Misc :

Vial: 43
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 16:32 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L044.D Vial: 44
 Acq On : 8 Nov 19 15:49 Operator: MA
 Sample : 191031A LCS-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 16:33 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	835190	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	3596714	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1685475	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	2974818	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.43	240	2366376	40.00000	ppb	0.03
7) Perylene-D12 (IS)	10.66	264	2671224	40.00000	ppb	0.07

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	266233	92.15714	ppb	97

Quantitation Report

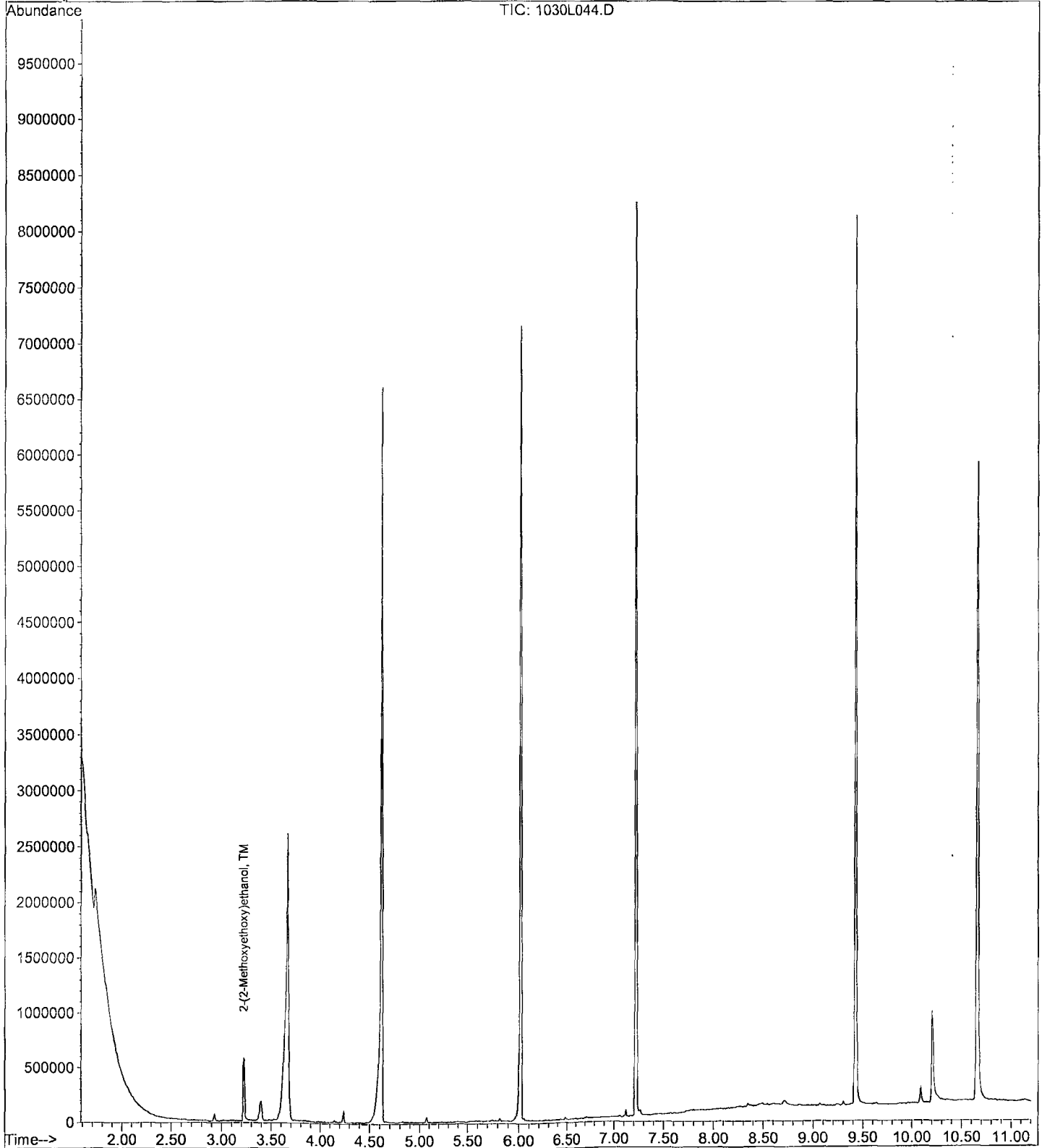
Data File : M:\LINUS\DATA\L191030M\1030L044.D
Acq On : 8 Nov 19 15:49
Sample : 191031A LCS-1 2/500
Misc :

Vial: 44
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 16:33 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L191030M\1030L047.D Vial: 47
 Acq On : 8 Nov 19 16:45 Operator: MA
 Sample : 191031A LCSD-1 2/500 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 8 17:18 2019 Quant Results File: YMEE1030.RES

Quant Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 01 17:44:15 2019
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	3.66	152	968441	40.00000	ppb	0.00
3) Napthalene-D8 (IS)	4.62	136	4015248	40.00000	ppb	0.00
4) Acenaphthene-D10 (IS)	6.01	164	1942615	40.00000	ppb	0.00
5) Phenanthrene-D10 (IS)	7.22	188	3543239	40.00000	ppb	0.00
6) Chrysene-D12 (IS)	9.41	240	2703109	40.00000	ppb	0.00
7) Perylene-D12 (IS)	10.63	264	3165685	40.00000	ppb	0.03

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	3.22	45	276813	82.63531	ppb	91

Quantitation Report

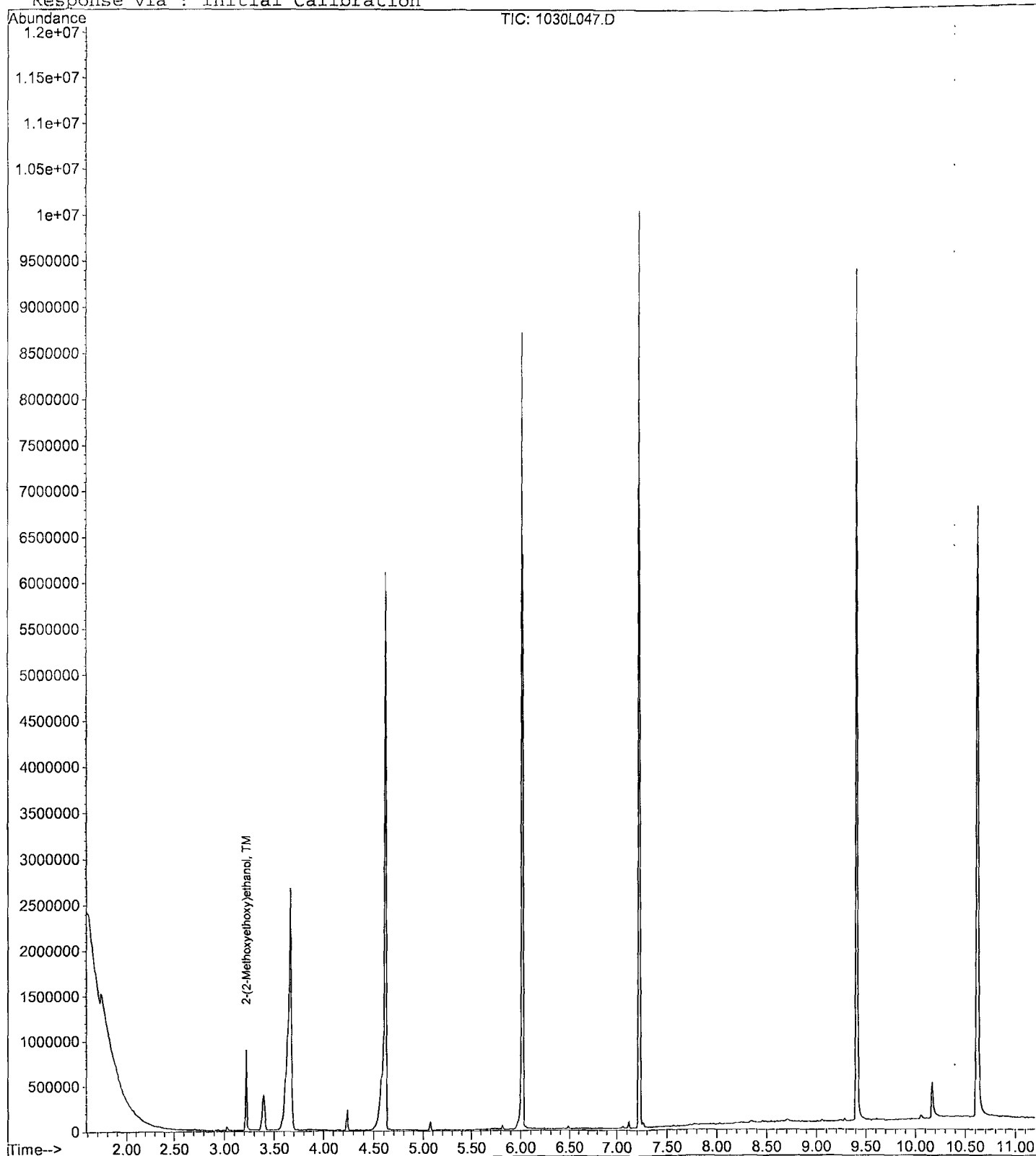
Data File : M:\LINUS\DATA\L191030M\1030L047.D
Acq On : 8 Nov 19 16:45
Sample : 191031A LCSD-1 2/500
Misc :

Vial: 47
Operator: MA
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 17:18 2019

Quant Results File: YMEE1030.RES

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 01 17:44:15 2019
Response via : Initial Calibration

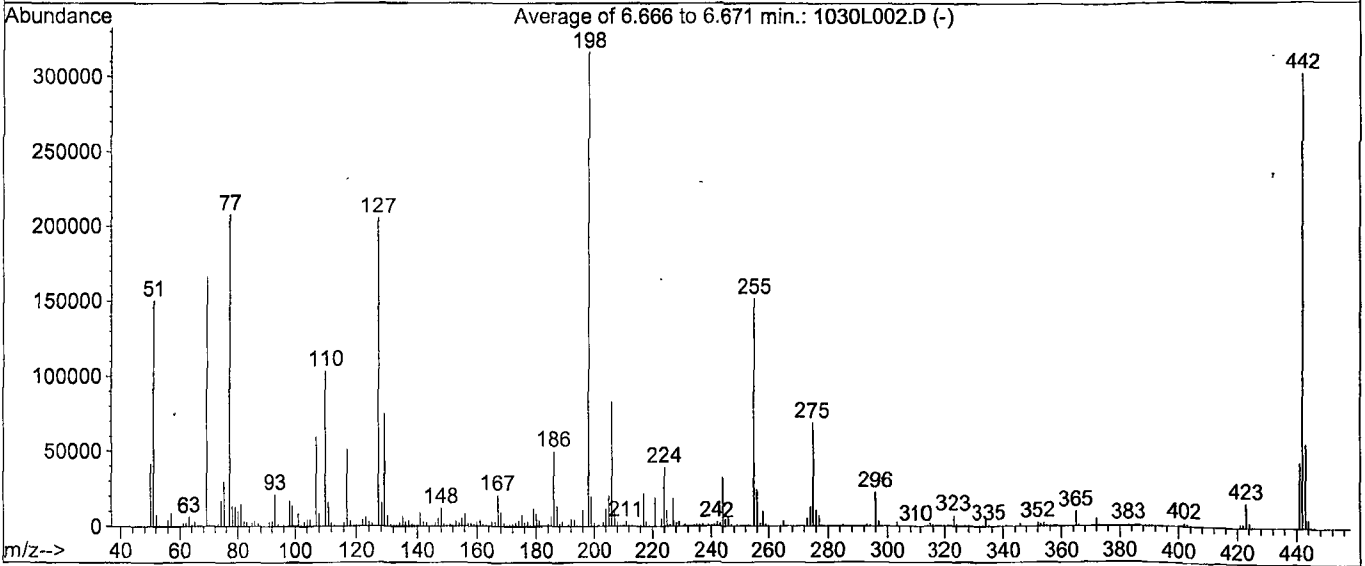
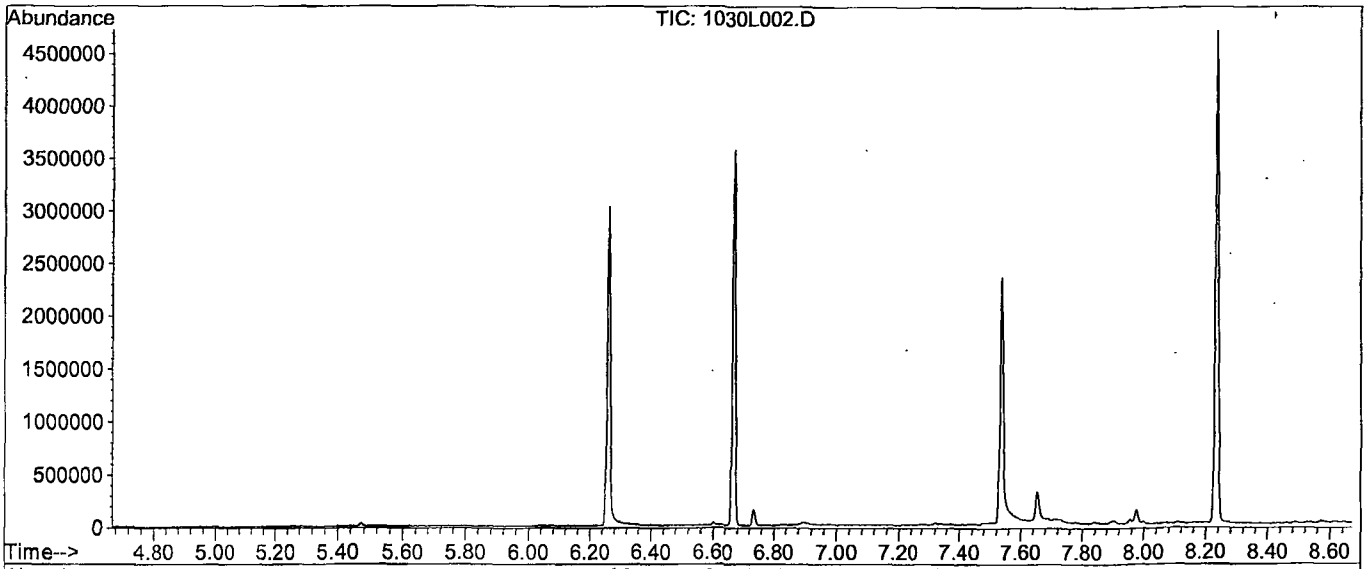


DFTPP

Data File : M:\LINUS\DATA\L191030M\1030L002.D
 Acq On : 31 Oct 19 9:39
 Sample : SV Tune 10/01/19
 Misc :

Vial: 86
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.5	150243	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	922	PASS
127	198	10	80	64.9	205418	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	316523	PASS
199	198	5	9	6.2	19776	PASS
275	198	10	60	21.7	68701	PASS
365	198	1	100	3.2	9986	PASS
441	442	0.01	24	14.5	43648	PASS
442	198	50	500	95.4	301909	PASS
443	442	15	24	18.6	56149	PASS

Data File Name: 1030L002.D
Data File Path: M:\LINUS\DATA\L191030M\
Operator: MA
Date Acquired: 31 Oct 2019 09:39
Method File: DFTPP2.M
Sample Name: SV Tune 07/11/19
Vial Number: 86
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	32088400
2)	DDD	7.98	1040940
3)	DDE	8.00	701952

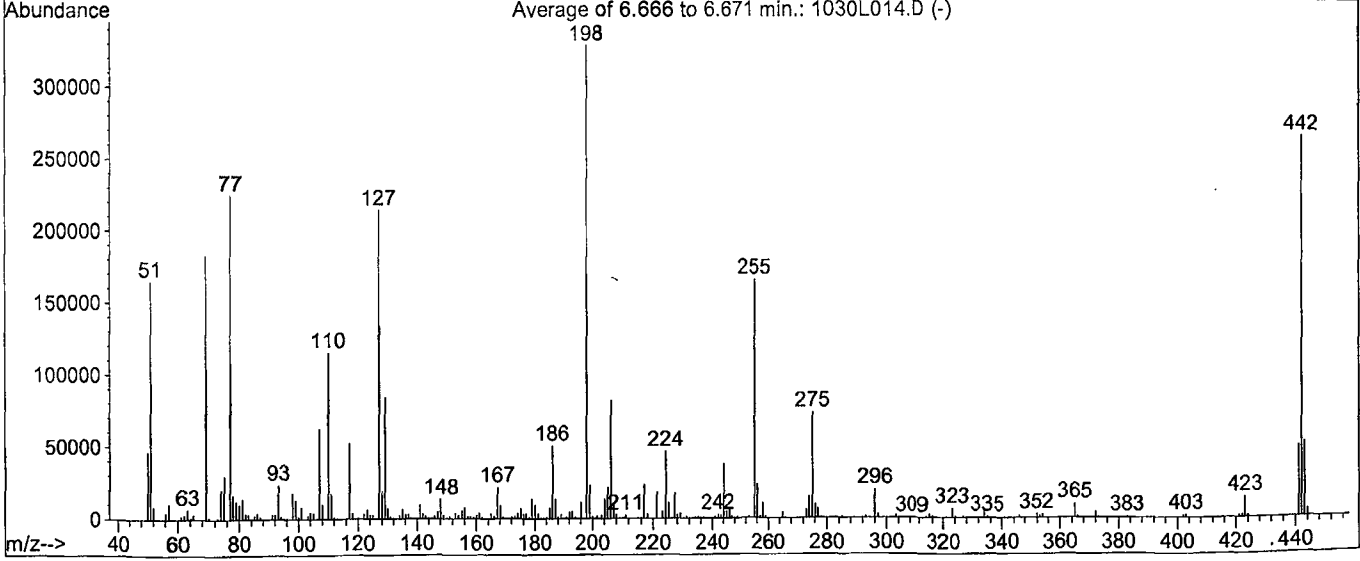
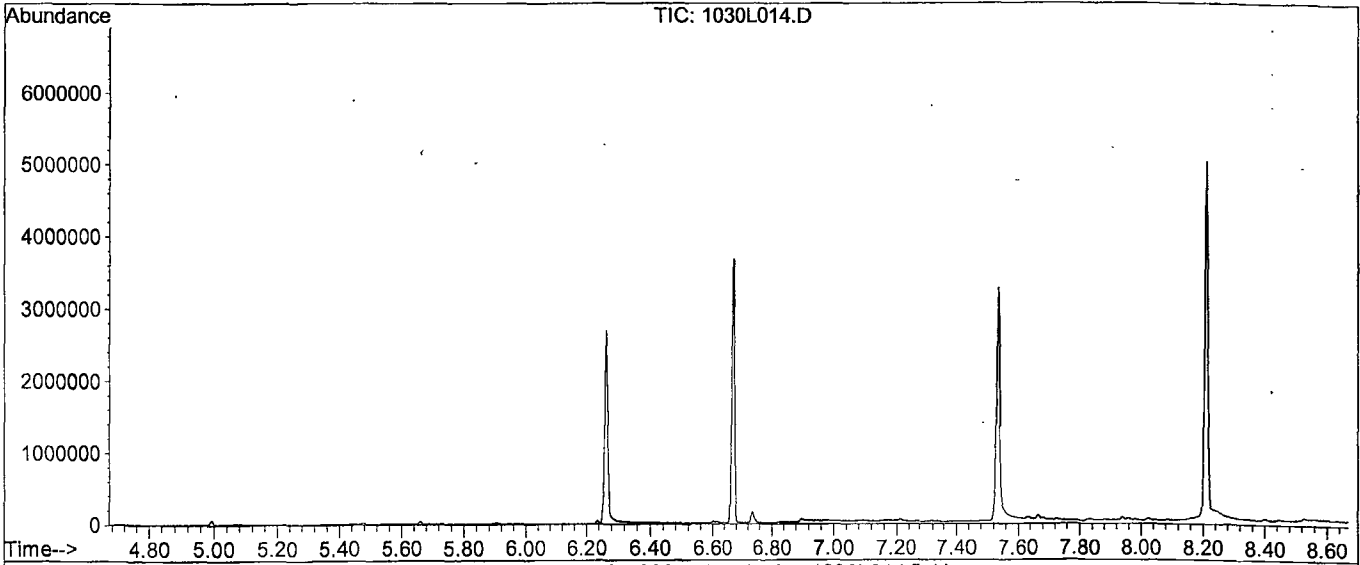
Breakdown 5.15

DFTPP

Data File : M:\LINUS\DATA\L191030M\1030L014.D
 Acq On : 1 Nov 19 15:17
 Sample : SV Tune 10/01/19
 Misc :

Vial: 14
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1639, 1640, 1641; Background Corrected with Scan 1630

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.2	164951	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	1364	PASS
127	198	10	80	65.2	214229	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	328597	PASS
199	198	5	9	7.0	22899	PASS
275	198	10	60	22.3	73325	PASS
365	198	1	100	3.1	10112	PASS
441	442	0.01	24	18.5	49301	PASS
442	198	50	500	81.1	266539	PASS
443	442	15	24	19.7	52437	PASS

Data File Name: 1030L014.D
Data File Path: M:\LINUS\DATA\L191030M\
Operator: MA
Date Acquired: 1 Nov 19 15:17
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 14
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	38086400
2)	DDD	7.98	224750
3)	DDE	8.00	113996

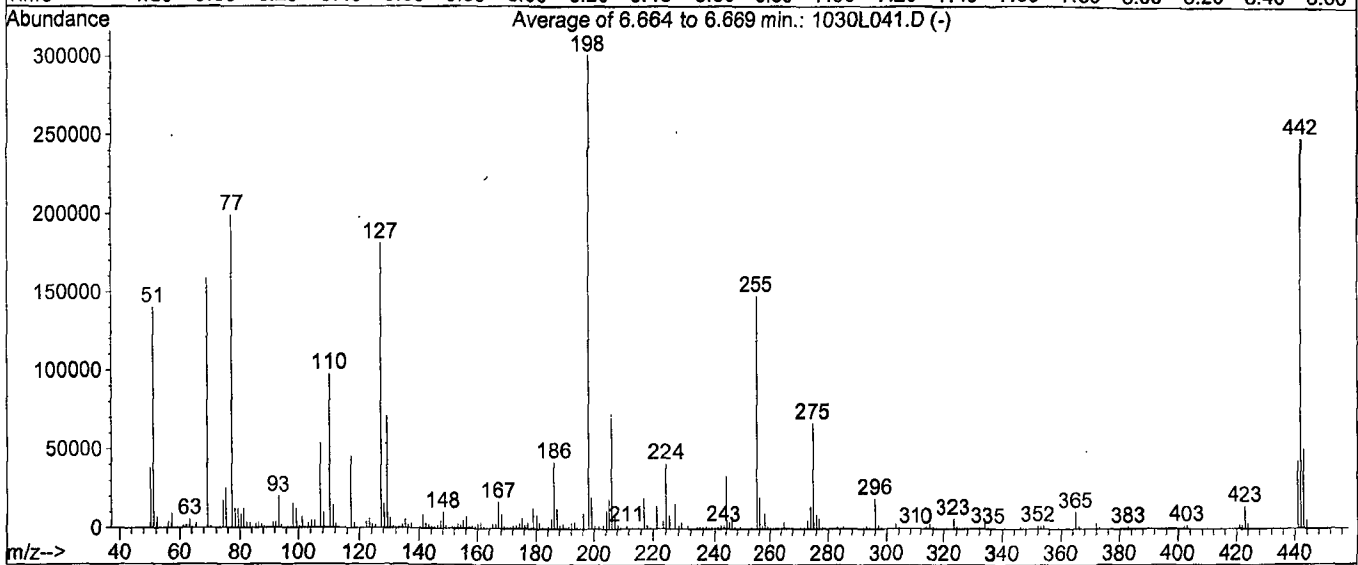
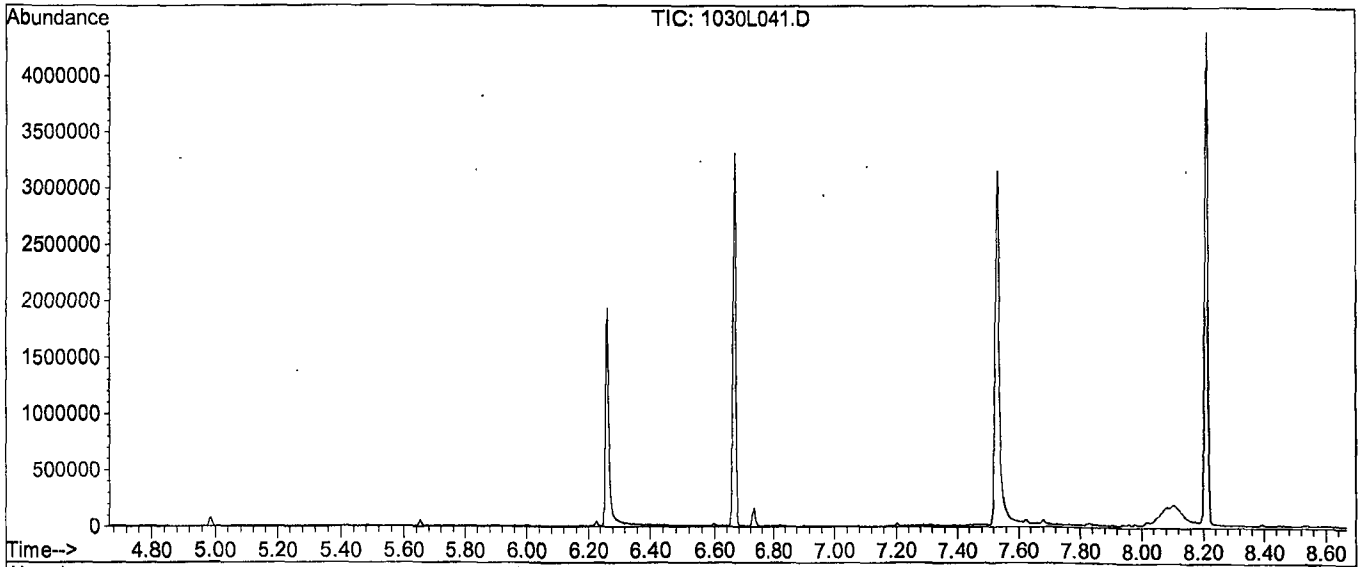
Breakdown 0.88

DFTPP

Data File : M:\LINUS\DATA\L191030M\1030L041.D
 Acq On : 8 Nov 19 12:30
 Sample : SV Tune 10/01/19
 Misc :

Vial: 41
 Operator: MA
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L191030M\YMEE1030.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.6	140225	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	933	PASS
127	198	10	80	60.1	180957	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	300928	PASS
199	198	5	9	6.6	19924	PASS
275	198	10	60	22.2	66765	PASS
365	198	1	100	3.6	10732	PASS
441	442	0.01	24	17.0	42301	PASS
442	198	50	500	82.6	248469	PASS
443	442	15	24	20.2	50115	PASS

Data File Name: 1030L041.D
Data File Path: M:\LINUS\DATA\L191030M\
Operator: MA
Date Acquired: 8 Nov 19 12:30
Method File: DFTPP2.M
Sample Name: SV Tune 10/01/19
Vial Number: 41
Instrument Name: Linus

#	Name	Ret Time	Target Response
1)	DDT	8.21	31052200
2)	DDD	7.98	158999
3)	DDE	8.00	92340

Breakdown 0.80

Name of Final Standard Diethylene Glycol
 Prep Date 01/31/19
 Exp Date 01/31/20

Prep'd By (Initials) GA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-39888 39889	01/31/20	2.0 mL	4 mL	Methanol #042317C	1000 ug/mL

Given to Extraction to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/L

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	ml
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:		04/29/19 10:50			
Spiked ID 8		Ext. End Time:		04/29/19 16:40			
		GC Requires Extract By:		04/30/19 0:00			
		pH1		Water Bath Temp Criteria			
		pH2					
		pH3					

M STD AND SS PREPARATION

HA 5/1/19

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments	
1	190429A Blk			NA	NA	500	2	7	04/29/19 10:50		
2	190429A LCS-1	0.040	1	NA	NA	500	2	7	04/29/19 10:50		
3	190429A LCSD-1	0.040	1	NA	NA	500	2	7	04/29/19 10:50		
4	AZ89958 MS-1	AZ89958W23	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
5	AZ89958 MSD-1	AZ89958W22	0.040	1	NA	NA	510	2	7	04/29/19 10:50	88687
6	AZ89958	AZ89958W24		NA	NA	500	2	7	04/29/19 10:50	88687	
7	AZ89959	AZ89959W06		NA	NA	480	2	7	04/29/19 10:50	88687	
8	AZ89961	AZ89961W22		NA	NA	510	2	7	04/29/19 10:50	88687	
9	AZ90051 MS-1	AZ90051W21	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
10	AZ90051 MSD-1	AZ90051W25	0.040	1	NA	NA	500	2	7	04/29/19 10:50	88701
11	AZ90051	AZ90051W22		NA	NA	500	2	7	04/29/19 10:50	88701	
12	AZ90052	AZ90052W05		NA	NA	505	2	7	04/29/19 10:50	88701	
13	AZ90054	AZ90054W16		NA	NA	510	2	7	04/29/19 10:50	88701	
14	AZ90056	AZ90056W16		NA	NA	510	2	7	04/29/19 10:50	88701	
15	AZ90058	AZ90058W17		NA	NA	500	2	7	04/29/19 10:50	88701	
16	AZ90060	AZ90060W17		NA	NA	505	2	7	04/29/19 10:50	88701	

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: 448 of 866 Date

Organic Extraction Worksheet











Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	190429A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20	Surrogate ID 1					
Spiked ID 2	2MEE SS 10320ug/mL 8-3-18 exp 8-3-19	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:		04/29/19 10:50			
Spiked ID 8		Ext. End Time:		04/29/19 16:40			
		GC Requires Extract By:		04/30/19 0:00			
		pH1		Water Bath Temp Criteria			
		pH2					
		pH3					

Spiked By: KY

Date 04/29/19

Witnessed By: DL

Date 04/29/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	AZ90100 			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
18	AZ90102 			NA	NA	395	2	7	04/29/19 10:50	88714
					equip					
19	AZ90103 			NA	NA	250	2	7	04/29/19 10:50	88714
					equip					
20	AZ90105 			NA	NA	500	2	7	04/29/19 10:50	88714
					equip					
21	AZ90107 			NA	NA	510	2	7	04/29/19 10:50	88714
					equip					
22	AZ90109 			NA	NA	505	2	7	04/29/19 10:50	88714
					equip					
23	AZ90213 			NA	NA	505	2	7	04/29/19 10:50	88736
					equip					
24	AZ90215 			NA	NA	500	2	7	04/29/19 10:50	88736
					equip					
25	M STD 	1	1	NA	NA	500	2	7	04/29/19 10:50	
					equip					
26	SS 	0.097	2	NA	NA	500	2	7	04/29/19 10:50	
					equip					

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	
Reverible Tube Lot:	11225702
PH Strip	HC 863463
Di Water	4-29-19
Dichloromethane	58240
Methanol	58179

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	04/29/19 2:46:49 PM

Reviewed By: 449 of 866 Date

Name of Final Standard MEE Curve
 Prep Date 04/30/19
 Exp Date 10/30/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	200uL	Methanol 195uL Lot# 208858	50 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	5 uL	100uL	Methanol 95uL Lot# 208858	100 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	10 uL	100uL	Methanol 90uL Lot# 208858	200 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	20 uL	100uL	Methanol 80 uL Lot# 208858	400 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	200uL	Methanol 150 uL	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	30 uL	100uL	Methanol 70 uL Lot# 208858	600 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	40 uL	100uL	Methanol 60 uL Lot# 208858	800 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	04/29/19	01/31/20	50 uL	100uL	Methanol 50uL Lot# 208858	1000 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	2 uL			

Name of Final Standard MEE Second Source
 Prep Date 04/30/19
 Exp Date 08/03/19

Prep'd By (Initials) SS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	04/29/19	08/03/19	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	03/12/19	03/12/20	4 uL			

Name of
 Final
 Standard 2MEE Second Source Stock

Prep'd By (Initials) JP

Prep Date 10/28/19
 Exp Date 10/28/20

Initial Standard Information					Final Standard Information				
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	7079100 - 39417	07/31/22	0.1022g	10 mL	MC #56258	10220 ug/mL

Given to Extraction to do **MEE SS** (used for ICAL SS)
 0.097ml were spiked in 500ml of water and extracted on 10/28/2019 . Final concentration is 2000ug/L

Name of Final Standard MEE Second Source
 Prep Date 11/01/19
 Exp Date 11/01/20

Prep'd By (Initials) MA

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	10/28/19	10/28/20	50 uL	200uL	Methanol 150uL Lot# 208858	500 ug/mL
SV Internal Standard	APPL	8270 I.S.	2000 ug/mL	10/28/19	10/28/20	4 uL			

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10200ug/mL10/28/19 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/28/19 16:10			
Spiked ID 8			Ext. End Time:	10/30/19 14:30			
			GC Requires Extract By:				
			pH1			Water Bath Temp 1 °C	
			pH2			Water Bath Temp 2 °C	
			pH3			Water Bath Temp 3 °C	

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191028A Blk				NA	NA	500	2	7Y	10/28/19 11:10	
2 191028A LCS-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
3 191028A LCSD-1		0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
4 BA01579 MS-1	BA01579W21	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
5 BA01579 MSD-1	BA01579W18	0.040	1	NA	NA	500	2	7Y	10/28/19 11:10	
6 BA01579	BA01579W16			NA	NA	500	2	7Y	10/28/19 11:10	90524
7 BA01580	BA01580W06			NA	NA	500	2	7Y	10/28/19 11:10	90524
8 BA01582	BA01582W12			NA	NA	500	2	7Y	10/28/19 11:10	90524
9 BA01651	BA01651W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
10 BA01652	BA01652W07			NA	NA	500	2	7Y	10/28/19 11:10	90532
11 BA01654	BA01654W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
12 BA01656	BA01656W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
13 BA01658	BA01658W11			NA	NA	500	2	7Y	10/28/19 11:10	90532
14 BA01660	BA01660W10			NA	NA	500	2	7Y	10/28/19 11:10	90532
15 BA01662	BA01662W17			NA	NA	500	2	7Y	10/28/19 11:10	90532
16 BA01664	BA01664W18			NA	NA	500	2	7Y	10/28/19 11:10	90532

Solvent and Lot#	
ENVI-Carb Plus 400MG/IML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

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

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By: _____ **Date** _____

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191028A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10200ug/mL 10/28/19 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:				
Spiked ID 7			Ext. Start Time:	10/28/19 16:10			
Spiked ID 8			Ext. End Time:	10/30/19 14:30			
GC Requires Extract By:							
pH1						Water Bath Temp 1 °C	
pH2						Water Bath Temp 2 °C	
pH3						Water Bath Temp 3 °C	

Spiked By:

Date

Witnessed By:

Date

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
17	BA01775 BA01775W07			NA	NA	500	2	7Y	10/28/19 11:10	90551
18	BA01777 BA01777W08			NA	NA	500	2	7Y	10/28/19 11:10	90551
19	BA01779 BA01779W08			NA	NA	500	2	7Y	10/28/19 11:10	90551
20	BA01781 BA01781W09			NA	NA	500	2	7Y	10/28/19 11:10	90551
21	BA01782 BA01782W07			NA	NA	500	2	7Y	10/28/19 11:10	90551
22	BA01784 BA01784W13			NA	NA	500	2	7Y	10/28/19 11:10	90551
23	SS	0.097	2	NA	NA	500	2	7Y	10/28/19 11:10	90551

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	1169450
PH Strip	HC863463
Di Water	10/30/19
Dichloromethane	59130
Methanol	59129

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

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/28/19 12:42:46 PM

Reviewed By:

Date

Organic Extraction Worksheet

Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	191031A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	Diethylene Glycol 1-31-19 EXP 1-31-20		Surrogate ID 1				
Spiked ID 2	2MEE SS 10320ug/mL 10/28/19 exp 10/28/20		Surrogate ID 2				
Spiked ID 3			Surrogate ID 3				
Spiked ID 4			Surrogate ID 4				
Spiked ID 5			Surrogate ID 5				
Spiked ID 6			Sufficient Vol for Matrix QC:		no		
Spiked ID 7			Ext. Start Time:		10/31/19 15:15		
Spiked ID 8			Ext. End Time:		11/06/19 13:30		
			GC Requires Extract By:				
			pH1		Water Bath Temp 1 °C		
			pH2		Water Bath Temp 2 °C		
			pH3		Water Bath Temp 3 °C		

Spiked By: DL

Date 10/31/19

Witnessed By: RP

Date 10/31/19

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 191031A Blk				NA	NA	500	2	7Y	10/31/19 15:15	
2 191031A LCS-1		0.040	1	NA	NA	500	2	7Y	10/31/19 15:15	
3 191031A LCSD-1		0.040	1	NA	NA	500	2	7Y	10/31/19 15:15	
4 BA01829	BA01829W08		1	NA	NA	500	2	7Y	10/31/19 15:15	90559
5 BA01831	BA01831W11			NA	NA	500	2	7Y	10/31/19 15:15	90559
6 BA01833	BA01833W12			NA	NA	500	2	7Y	10/31/19 15:15	90559
7 BA02090	BA02090W13			NA	NA	500	2	7Y	10/31/19 15:15	90587
8 BA02091	BA02091W10			NA	NA	500	2	7Y	10/31/19 15:15	90587
9 BA02160	BA02160W10			NA	NA	500	2	7Y	10/31/19 15:15	90599
10 SS		0.097	2	NA	NA	500	2	7Y	10/31/19 15:15	

Solvent and Lot#	
ENVI-Carb Plus 400MG/1ML	11694501
Reverible Tube Lot:	11694501
PH Strip	HC863463
Di Water	11/6/19
Dichloromethane	59130
Methanol	59129

Extraction COC Transfer	
Extraction lab employee Initials	SS
GC analyst's initials	MA
Date	11/6/19
Time	1:30
Refrigerator	GC_C

Technician's Initials	
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	DL
Modified	10/31/19 2:47:49 PM

Reviewed By: *MA* Date *11/19/19*

455 of 866
Ext_ID 64949

Injection Log

Directory: M:\LINUS\DATA\191030M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
86	1030L002.D	1	SV Tune	10/01/19	31 Oct 19 9:39
4	1030L004.D	1	50 2MEE	4/30/19	31 Oct 19 11:50
5	1030L005.D	1	100 2MEE	4/30/19	31 Oct 19 12:10
6	1030L006.D	1	200 2MEE	4/30/19	31 Oct 19 12:29
8	1030L008.D	1	500 2MEE	4/30/19	31 Oct 19 13:07
9	1030L009.D	1	600 2MEE	4/30/19	31 Oct 19 13:25
10	1030L010.D	1	800 2MEE	4/30/19	31 Oct 19 13:43
11	1030L011.D	1	1000 2MEE	4/30/19	31 Oct 19 14:02
14	1030L014.D	1	SV Tune	10/01/19	1 Nov 19 15:17
16	1030L016.D	1	SS 2MEE	11/1/19	1 Nov 19 17:11
41	1030L041.D	1	SV Tune	10/01/19	8 Nov 19 12:30
42	1030L042.D	1	500 2MEE	4/30/19	8 Nov 19 13:13
43	1030L043.D	1	191031A BLK	2/500	8 Nov 19 14:21
44	1030L044.D	1	191031A LCS-1	2/500	8 Nov 19 15:49
46	1030L046.D	1	BA01829W08	2/500	8 Nov 19 16:26
47	1030L047.D	1	191031A LCSD-1	2/500	8 Nov 19 16:45
48	1030L048.D	1	BA01831W11	2/500	8 Nov 19 17:03
49	1030L049.D	1	BA01833W12	2/500	8 Nov 19 17:22
61	1030L061.D	1	500 2MEE	4/30/19	8 Nov 19 21:02

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Thor

Initials: _____

1023T06.D 1023T07.D 1023T08.D 1023T09.D 1023T10.D 1023T11.D 1023T12.D 1023T13.D 1023T14.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I	Fluorobenzene (IS)															
2	TM	Chlorotrifluoroethene												TM			
3	TM	Dichlorodifluoromethane		0.2635	0.2974	0.2177	0.1924	0.2092	0.2232	0.2234	0.2273	0.23	14	TM			
4	TML	Freon 114		0.1488	0.1532	0.1309	0.0936	0.1075	0.1061	0.1016	0.0918	0.12	21	TML	0.998		
5	TM**L	Chloromethane		0.3470	0.2838	0.2274	0.1882	0.1949	0.1769	0.1792	0.1673	0.22	29	TM**L	0.999		
6	TM*	Vinyl chloride		0.2045	0.2053	0.1544	0.1472	0.1629	0.1574	0.1616	0.1630	0.17	13	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane												TM			
8	TML	Bromomethane		0.1364	0.1701	0.1326	0.1025	0.0971	0.0973	0.0998	0.0989	0.12	23	TML	1.000		
9	TML	Chloroethane		0.5439	0.3418	0.1686	0.1126	0.1183	0.1159	0.1115	0.1078	0.20	79	TML	1.000		
10	TM	Dichlorofluoromethane		0.2987	0.3792	0.3293	0.2792	0.2956	0.3000	0.3099	0.2707	0.31	11	TM			
11	TM	Trichlorofluoromethane		0.3546	0.3702	0.3204	0.2669	0.2914	0.3067	0.3120	0.3052	0.32	10	TM			
12	TM	Diethyl ether												TM			
13	TM	Acrolein		0.0091	0.0102	0.0093	0.0090	0.0099	0.0090	0.0094	0.0107	0.01	6.5	TM			
14	TML	Acetone					0.0850	0.0694	0.0573	0.0525	0.0436	0.06	26	TML	0.993		
15	TML	Freon-113		0.0900	0.0943	0.1495	0.1217	0.1326	0.1349	0.1331	0.1190	0.12	17	TML	0.997		
16	TM*	1,1-DCE		0.2461	0.2741	0.2375	0.2011	0.1994	0.2212	0.2174	0.1945	0.22	12	TM*			
17	TM	2-Propanol												TM			
18	TML	Acetonitrile		0.0231	0.0203	0.0205	0.0204	0.0205	0.0204	0.0201		0.02	5.0	TML	0.999		
19	TM	t-Butanol	0.0186	0.0170	0.0165	0.0163	0.0166	0.0164	0.0165	0.0162	0.0151	0.02	5.5	TM			
20	TML	Methyl Acetate		0.1825	0.1427	0.1250	0.1098	0.1167	0.1135	0.1109	0.0979	0.12	21	TML	0.997		
21	TML	Iodomethane			0.0515	0.0317	0.0309	0.0938	0.1285	0.1563	0.1730	0.10	62	TML	0.997		
22	TM	Acrylonitrile			0.0579	0.0653	0.0505	0.0563	0.0575	0.0589	0.0544	0.06	7.9	TM			
23	TML	Methylene chloride		0.3088	0.2765	0.2310	0.1876	0.2049	0.2008	0.2073	0.1755	0.22	21	TML	0.995		
24	TML	Carbon disulfide		0.4997	0.5113	0.4516	0.3454	0.3784	0.3694	0.3894		0.42	16	TML	0.997		
25	TML	Methyl t-butyl ether (MtBE)		0.7185	0.5653	0.5427	0.4770	0.5079	0.4926	0.5094	0.4544	0.53	15	TML	0.998		
26	TM	Trans-1,2-DCE		0.2379	0.2419	0.2386	0.1914	0.2112	0.2110	0.2265	0.1937	0.22	9.2	TM			
27	TM	Hexane												TM			
28	TM	Diisopropyl Ether		0.2261	0.2133	0.2022	0.1735	0.1673	0.1872	0.1843	0.1687	0.19	11	TM			
29	TM**	2,2-Dichloro-1,1,1-trifluoroethane												TM**			
30	TM**L	1,1-DCA		0.1617	0.1772	0.1442	0.1175	0.1246	0.1250	0.1246	0.1101	0.14	17	TM**L	0.997		
31	TML	Vinyl Acetate		0.0970	0.1887	0.1478	0.1332	0.1470	0.1495	0.1560	0.1383	0.14	18	TML	0.997		
32	TM	Ethyl tert Butyl Ether		0.5563	0.5078	0.5374	0.4655	0.5217	0.5147	0.5270	0.4675	0.51	6.2	TM			
33	TML	MEK (2-Butanone)		0.0765	0.1107	0.0883	0.0675	0.0684	0.0667	0.0726	0.0638	0.08	20	TML	0.997		
34	TM	Cis-1,2-DCE		0.2725	0.2659	0.2822	0.2450	0.2650	0.2688	0.2788	0.2434	0.27	5.4	TM			
35	TML	2,2-Dichloropropane		0.1769	0.1489	0.1233	0.0973	0.0982	0.1074	0.1129	0.0987	0.12	24	TML	0.996		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Thor

Initials: _____

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	Q	MRF
36	TM	2-Methylpentane											TM		
37	TM	3-Methylpentane											TM		
38	TM*	Chloroform		0.1766	0.2016	0.1713	0.1616	0.1730	0.1737	0.1778	0.1552	0.17	7.8	TM*	
39	TM	Bromochloromethane		0.0894	0.0865	0.0750	0.0644	0.0729	0.0733	0.0722	0.0632	0.07	12	TM	
40	S	Dibromofluoromethane(S)	0.5385	0.5240	0.4368	0.4526	0.4712	0.4842	0.4850	0.4883	0.4565	0.48	6.8	S	
41	TML	1,1,1-TCA		0.2129	0.1588	0.1638	0.1363	0.1488	0.1422	0.1490	0.1319	0.16	16	TML	0.998
42	TM	Cyclohexane		0.2261	0.2534	0.2165	0.1723	0.1768	0.1838	0.1960	0.1759	0.20	15	TM	
43	TM	1,1-Dichloropropene		0.2534	0.2616	0.2105	0.1953	0.2043	0.2079	0.2218	0.1929	0.22	12	TM	
44	TML	2,2,4-Trimethylpentane		0.2331	0.2307	0.1631	0.1311	0.1417	0.1530	0.1543	0.1467	0.17	24	TML	0.999
45	S	1,2-DCA-D4(S)	0.5868	0.5920	0.4819	0.5140	0.5350	0.5510	0.5468	0.5434	0.5053	0.54	6.7	S	
46	TML	Carbon Tetrachloride		0.1055	0.3400	0.2537	0.2272	0.2464	0.2563	0.2777	0.2389	0.24	27	TML	0.996
47	TM	Tert Amyl Methyl Ether		0.5745	0.5621	0.5367	0.4861	0.4912	0.5084	0.5332	0.4716	0.52	7.1	TM	
48	TM	Methylcyclopentane												TM	
49	TML	1,2-DCA		0.1966	0.3107	0.1541	0.1327	0.1395	0.1555	0.1500	0.1332	0.17	35	TML	0.997
50	TM	Benzene		0.8485	0.8036	0.7185	0.6643	0.6662	0.6757	0.6931	0.6211	0.71	11	TM	
51	TM	TCE		0.2722	0.2470	0.2286	0.1953	0.2056	0.2059	0.2205	0.1905	0.22	13	TM	
52	TM	2-Pentanone		0.1108	0.1149	0.1111	0.1099	0.1099	0.1143	0.1151	0.1033	0.11	3.5	TM	
53	TM*	1,2-Dichloropropane		0.1853	0.2044	0.2111	0.1592	0.1711	0.1716	0.1804	0.1632	0.18	10	TM*	
54	TM	Bromodichloromethane		0.3065	0.2886	0.2968	0.2566	0.2672	0.2716	0.2766	0.2507	0.28	7.0	TM	
55	TM	Methyl Cyclohexane		0.2264	0.2806	0.2220	0.1998	0.2057	0.2142	0.2154	0.1995	0.22	12	TM	
56	TML	Dibromomethane		0.0397	0.1774	0.1298	0.1310	0.1452	0.1650	0.1731	0.1500	0.14	32	TML	0.996
57	TML	MIBK (methyl isobutyl ketone)		0.0844	0.0692	0.0637	0.0572	0.0554	0.0541	0.0581	0.0607	0.06	16	TML	0.999
58	TM	1-Bromo-2-chloroethane		0.2573	0.2182	0.2514	0.2085	0.2346	0.2347	0.2443	0.2149	0.23	7.6	TM	
59	TM	2-Chloroethyl vinyl ether												TM	
60	TM	Cis-1,3-Dichloropropene		0.3335	0.3178	0.2936	0.2532	0.2842	0.2741	0.2944	0.2653	0.29	9.2	TM	
61	TM*	Toluene		0.9098	0.9112	0.8100	0.7171	0.7733	0.7816	0.8151	0.7330	0.81	9.0	TM*	
62	TM	Trans-1,3-Dichloropropene		0.2312	0.1717	0.1734	0.1593	0.1756	0.1793	0.1867	0.1706	0.18	12	TM	
63	TM	1,1,2-TCA		0.1921	0.1936	0.1959	0.1649	0.1831	0.1763	0.1788	0.1619	0.18	7.1	TM	
64	TML	2-Hexanone		0.1190	0.1019	0.0917	0.0683	0.0836	0.0845	0.0859	0.0908	0.09	16	TML	0.999
65	I	Chlorobenzene-D5 (IS)													
66	S	Toluene-D8(S)	2.143	2.042	1.649	1.690	1.820	1.965	1.778	1.900	1.815	1.9	8.7	S	
67	TM	1,2-EDB		0.1280	0.1257	0.1213	0.1171	0.1178	0.1147	0.1206	0.1124	0.12	4.4	TM	
68	TM	Tetrachloroethene		0.2621	0.1636	0.2604	0.2344	0.2586	0.2354	0.2538	0.2261	0.24	14	TM	
69	TML	1-Chlorohexane		0.2348	0.3409	0.1975	0.2087	0.2225	0.2148	0.2169	0.2095	0.23	20	TML	1.000
70	TM	1,1,1,2-Tetrachloroethane		0.2959	0.2482	0.2317	0.2188	0.2393	0.2266	0.2473	0.2274	0.24	10.0	TM	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Thor

Initials: _____

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	Q	MRF
71	TM	m&p-Xylene		0.7498	0.7821	0.7043	0.6485	0.7359	0.6995	0.7681	0.7042	0.72	6.0	TM		
72	TM	o-Xylene		0.8311	0.8492	0.7438	0.6798	0.8011	0.7259	0.8069	0.7531	0.77	7.5	TM		
73	TM	Styrene		0.6076	0.5684	0.4928	0.4722	0.5586	0.5232	0.5954	0.5736	0.55	8.8	TM		
74	S	4-Bromofluorobenzene(S)	0.8756	0.7804	0.6244	0.6442	0.7197	0.7700	0.7173	0.7521	0.7682	0.74	10	S		
75	TM	1,3-Dichloropropane		0.3214	0.3602	0.3177	0.2956	0.3152	0.2972	0.3054	0.2819	0.31	7.6	TM		
76	TML	Dibromochloromethane		0.0593	0.2424	0.2370	0.2108	0.2612	0.2356	0.2509	0.2387	0.22	30	TML	0.999	
77	TM**	Chlorobenzene		0.4023	0.3965	0.3492	0.3439	0.3893	0.3469	0.3743	0.3468	0.37	6.7	TM**		
78	TM*	Ethylbenzene		0.9902	0.9200	0.9273	0.8019	0.9160	0.8708	0.9368	0.8660	0.90	6.3	TM*		
79	TM**L	Bromoform		0.0742	0.1464	0.1916	0.1780	0.2077	0.1939	0.1995	0.1988	0.17	26	TM**L	1.000	
80	I	1,4-Dichlorobenzene-D (IS)														
81	TM	Isopropylbenzene		1.591	1.840	1.530	1.427	1.549	1.443	1.591	1.317	1.5	10	TM		
82	TM**	1,1,2,2-Tetrachloroethane		0.4738	0.3664	0.4444	0.3665	0.4152	0.4009	0.3990	0.3637	0.40	9.9	TM**		
83	TML	1,2,3-Trichloropropane		0.0485	0.1436	0.1330	0.1331	0.1434	0.1385	0.1396	0.1228	0.13	25	TML	0.997	
84	TML	t-1,4-Dichloro-2-Butene		0.0264	0.0609	0.0805	0.0930	0.0833	0.0809	0.0819	0.0749	0.07	29	TML	0.999	
85	TM	Bromobenzene		0.4205	0.4747	0.4052	0.3679	0.4011	0.3708	0.4040	0.3574	0.40	9.3	TM		
86	TM	n-Propylbenzene		1.966	1.913	1.738	1.541	1.638	1.619	1.750	1.493	1.7	9.8	TM		
87	TM	4-Ethyltoluene		1.598	1.501	1.504	1.355	1.436	1.406	1.581	1.337	1.5	6.7	TM		
88	TM	2-Chlorotoluene		0.7020	0.8063	0.7557	0.6917	0.6698	0.6817	0.7216	0.6330	0.71	7.6	TM		
89	TM	1,3,5-Trimethylbenzene		1.259	1.494	1.251	1.244	1.304	1.280	1.391	1.196	1.3	7.4	TM		
90	TM	4-Chlorotoluene		0.7780	0.8172	0.8811	0.7244	0.8125	0.7871	0.9000	0.7433	0.81	7.6	TM		
91	TM	Tert-Butylbenzene		1.225	1.170	1.311	1.208	1.130	1.115	1.210	1.033	1.2	7.1	TM		
92	TM	1,2,4-Trimethylbenzene		1.331	1.543	1.367	1.254	1.300	1.276	1.402	1.212	1.3	7.8	TM		
93	TM	Sec-Butylbenzene		1.667	1.641	1.503	1.393	1.510	1.463	1.615	1.396	1.5	7.0	TM		
94	TM	p-Isopropyltoluene		1.283	1.416	1.335	1.225	1.374	1.326	1.466	1.277	1.3	5.9	TM		
95	TM	Benzyl Chloride		0.3521	0.3298	0.2742	0.3076	0.2905	0.3003	0.3140	0.3307	0.31	8.0	TM		
96	TM	1,3-DCB		0.7074	0.6746	0.6224	0.5443	0.5435	0.5187	0.5507	0.4944	0.58	13	TM		
97	TM	1,4-DCB		1.117	0.9190	0.9501	0.7911	0.8213	0.8035	0.8716	0.7780	0.88	13	TM		
98	TM	n-Butylbenzene		1.085	1.065	1.005	0.8899	0.9728	0.9890	1.126	0.9982	1.0	7.3	TM		
99	TM	1,2-DCB		0.5874	0.5719	0.5274	0.4788	0.5258	0.4932	0.5480	0.5036	0.53	7.2	TM		
100	TM	Hexachloroethane		0.1594	0.1599	0.1796	0.1534	0.1690	0.1464	0.1699	0.1641	0.16	6.4	TM		
101	TML	1,2-Dibromo-3-chloropropane		0.1001	0.0554	0.0561	0.0637	0.0530	0.0547	0.0600	0.0551	0.06	25	TML	0.999	
102	TM	1,2,4-Trichlorobenzene		0.3419	0.3602	0.2846	0.2815	0.3090	0.3105	0.3407	0.3131	0.32	8.8	TM		
103	TM	Hexachlorobutadiene		0.2380	0.1957	0.1659	0.1794	0.1971	0.1781	0.2086	0.1932	0.19	11	TM		
104	TM	Naphthalene		0.9319	0.8032	0.7281	0.6839	0.7404	0.8006	0.9091	0.8287	0.80	11	TM		
105	TML	1,2,3-Trichlorobenzene		0.1330	0.5188	0.4190	0.4062	0.3909	0.4349	0.4897	0.4316	0.40	29	TML	0.997	

Data File : M:\THOR\DATA\T191023\1023T06.D
 Acq On : 23 Oct 19 19:32
 Sample : 0.3ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 6
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant. Time: Oct 24 9:00 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	160768	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	91040	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	19209	5.59	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.348%	
45) 1,2-DCA-D4(S)	6.18	65	20935	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.752%	
66) Toluene-D8(S)	8.30	98	68918	5.74	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.960%	
74) 4-Bromofluorobenzene(S)	10.92	174	28153	5.92	ppb	0.00
Spiked Amount	25.000		Recovery	=	23.692%	
Target Compounds						
19) t-Butanol	3.53	59	1328	11.22	ppb	Qvalue # 83

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

Quantitation Report

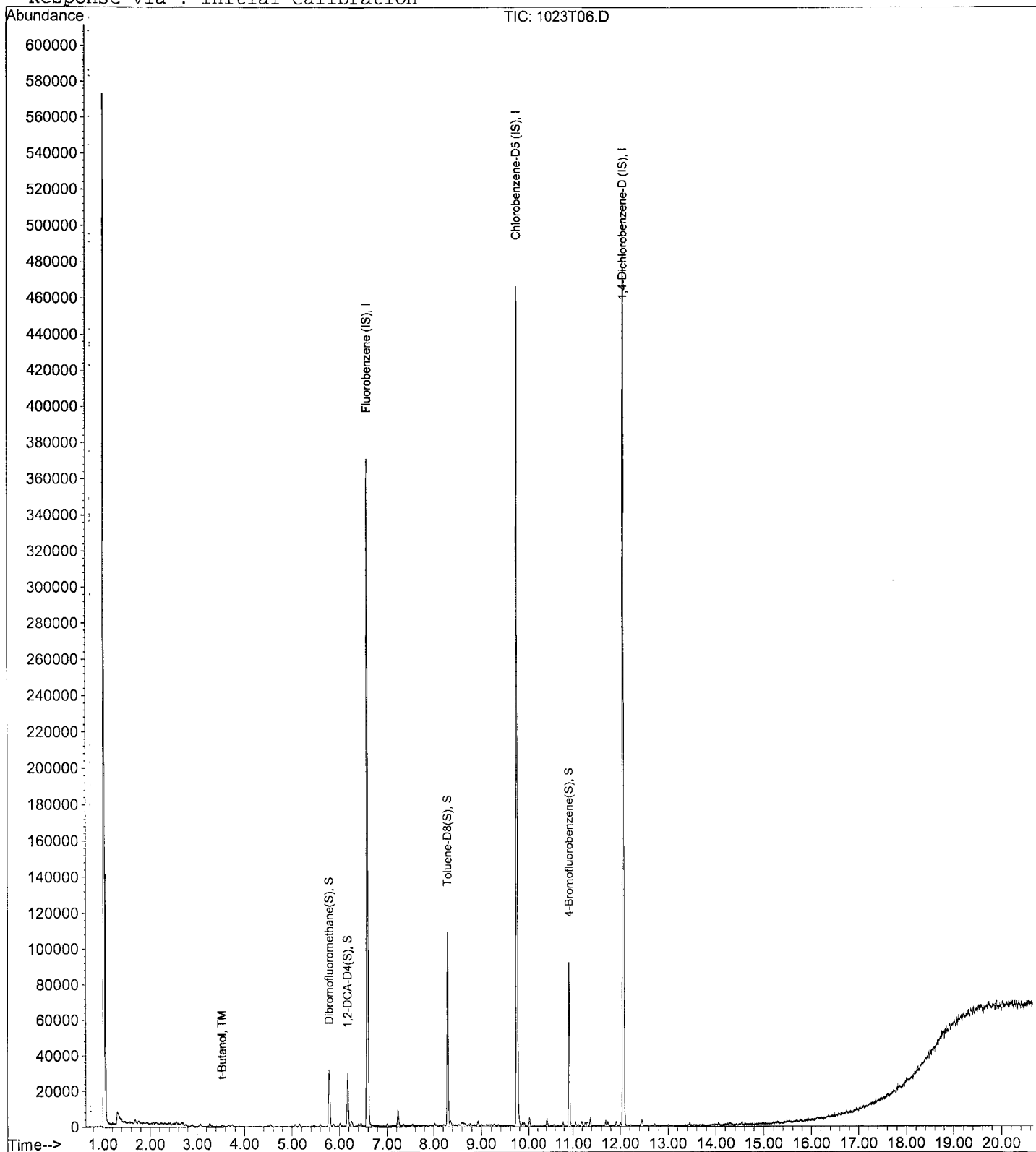
Data File : M:\THOR\DATA\T191023\1023T06.D
Acq On : 23 Oct 19 19:32
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant. Time: Oct 24 9:00 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T07.D
 Acq On : 23 Oct 19 20:01
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177792	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	164416	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	92872	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	18632	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.748%	
45) 1,2-DCA-D4(S)	6.18	65	21049	5.49	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.940%	
66) Toluene-D8(S)	8.30	98	67127	5.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.868%	
74) 4-Bromofluorobenzene(S)	10.92	174	25663	5.28	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.120%	
Target Compounds						
3) Dichlorodifluoromethane	1.21	85	937	0.57	ppb	Qvalue 95
4) Freon 114	1.32	85	529	-0.55	ppb #	68
6) Vinyl chloride	1.46	62	727	0.60	ppb #	51
8) Bromomethane	1.76	96	485	0.41	ppb	92
9) Chloroethane	1.87	64	1934	1.06	ppb #	42
10) Dichlorofluoromethane	2.06	67	1062	0.49	ppb	89
11) Trichlorofluoromethane	2.12	101	1261	0.56	ppb	86
13) Acrolein	2.56	55	1625	23.88	ppb	94
14) Acetone	2.74	43	1532	3.50	ppb #	76
15) Freon-113	2.70	101	320	-0.57	ppb #	77
16) 1,1-DCE	2.68	61	875	0.55	ppb	95
18) Acetonitrile	3.06	41	4102	25.90	ppb #	90
19) t-Butanol	3.54	59	3028	25.66	ppb #	72
20) Methyl Acetate	3.19	43	649	-0.56	ppb #	51
23) Methylene chloride	3.27	49	1098	-0.66	ppb #	86
24) Carbon disulfide	2.90	76	1777	0.45	ppb #	92
25) Methyl t-butyl ether (MtBE)	3.74	73	2555	-0.20	ppb #	83
26) Trans-1,2-DCE	3.68	61	846	0.54	ppb	85
28) Diisopropyl Ether	4.55	45	804	0.59	ppb	91
30) 1,1-DCA	4.33	63	575	-0.56	ppb #	66
31) Vinyl Acetate	4.55	87	345	-0.38	ppb #	37
32) Ethyl tert Butyl Ether	5.06	59	1978	0.54	ppb #	82
33) MEK (2-Butanone)	5.23	43	272	0.59	ppb #	52
34) Cis-1,2-DCE	5.16	61	969	0.51	ppb #	84
35) 2,2-Dichloropropane	5.16	77	629	0.49	ppb #	56
38) Chloroform	5.60	83	628	0.51	ppb	87
39) Bromochloromethane	5.47	130	318	0.60	ppb #	74
41) 1,1,1-TCA	5.80	97	757	-0.21	ppb	81
42) Cyclohexane	5.87	84	804	0.57	ppb #	75
43) 1,1-Dichloropropene	6.01	75	901	0.58	ppb #	78
44) 2,2,4-Trimethylpentane	6.41	57	829	0.47	ppb	88
46) Carbon Tetrachloride	6.01	119	375	-0.52	ppb #	17
47) Tert Amyl Methyl Ether	6.45	73	2043	0.55	ppb #	80
49) 1,2-DCA	6.27	62	699	-0.50	ppb #	72
50) Benzene	6.25	78	3017	0.60	ppb	95
51) TCE	7.01	130	968	0.62	ppb #	70
52) 2-Pentanone	7.23	43	19699	24.92	ppb	100
53) 1,2-Dichloropropane	7.23	63	659	0.51	ppb #	71
54) Bromodichloromethane	7.53	83	1090	0.55	ppb #	91

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

Data File : M:\THOR\DATA\T191023\1023T07.D
 Acq On : 23 Oct 19 20:01
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 7
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55) Methyl Cyclohexane	7.22	83	805	0.51	ppb	89
56) Dibromomethane	7.35	174	141	-0.35	ppb	91
57) MIBK (methyl isobutyl ket	9.05	43	300	1.22	ppb #	77
58) 1-Bromo-2-chloroethane	7.85	63	915	0.55	ppb	90
60) Cis-1,3-Dichloropropene	8.02	75	1186	0.58	ppb #	82
61) Toluene	8.36	91	3235	0.56	ppb	96
62) Trans-1,3-Dichloropropene	8.59	75	822	0.64	ppb #	72
63) 1,1,2-TCA	8.77	97	683	0.53	ppb	87
64) 2-Hexanone	8.20	43	423	1.29	ppb #	62
67) 1,2-EDB	9.26	107	421	0.53	ppb	92
68) Tetrachloroethene	8.93	166	862	0.55	ppb	89
69) 1-Chlorohexane	9.78	91	772	0.19	ppb #	65
70) 1,1,1,2-Tetrachloroethane	9.86	131	973	0.61	ppb	95
71) m&p-Xylene	10.02	91	4931	1.04	ppb	98
72) o-Xylene	10.40	91	2733	0.54	ppb	96
73) Styrene	10.41	104	1998	0.55	ppb	96
75) 1,3-Dichloropropane	8.94	76	1057	0.52	ppb	93
77) Chlorobenzene	9.77	112	1323	0.55	ppb	83
78) Ethylbenzene	9.90	91	3256	0.55	ppb	88
79) Bromoform	10.58	173	244	0.38	ppb #	64
81) Isopropylbenzene	10.78	105	2955	0.52	ppb #	92
82) 1,1,2,2-Tetrachloroethane	11.06	83	880	0.59	ppb #	85
83) 1,2,3-Trichloropropane	11.10	110	90	-0.89	ppb #	19
84) t-1,4-Dichloro-2-Butene	11.13	53	49	-0.64	ppb #	16
85) Bromobenzene	11.06	77	781	0.53	ppb	91
86) n-Propylbenzene	11.19	91	3651	0.58	ppb	89
87) 4-Ethyltoluene	11.31	105	2968	0.55	ppb #	90
88) 2-Chlorotoluene	11.26	91	1304	0.50	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	2339	0.48	ppb	95
90) 4-Chlorotoluene	11.37	91	1445	0.48	ppb	98
91) Tert-Butylbenzene	11.69	119	2276	0.52	ppb	96
92) 1,2,4-Trimethylbenzene	11.74	105	2473	0.50	ppb	97
93) Sec-Butylbenzene	11.91	105	3096	0.55	ppb	95
94) p-Isopropyltoluene	12.06	119	2383	0.48	ppb #	81
95) Benzyl Chloride	12.22	91	654	0.56	ppb #	74
96) 1,3-DCB	12.00	146	1008	0.47	ppb	89
97) 1,4-DCB	12.09	146	2074	0.63	ppb	94
98) n-Butylbenzene	12.47	91	2016	0.53	ppb	95
99) 1,2-DCB	12.46	146	1091	0.55	ppb	84
100) Hexachloroethane	12.71	117	296	0.49	ppb #	38
101) 1,2-Dibromo-3-chloropropan	13.22	157	186	0.50	ppb #	50
102) 1,2,4-Trichlorobenzene	14.07	182	635	0.54	ppb #	81
103) Hexachlorobutadiene	14.25	225	442	0.61	ppb #	43
104) Naphthalene	14.30	128	1731	0.58	ppb #	85

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

Quantitation Report

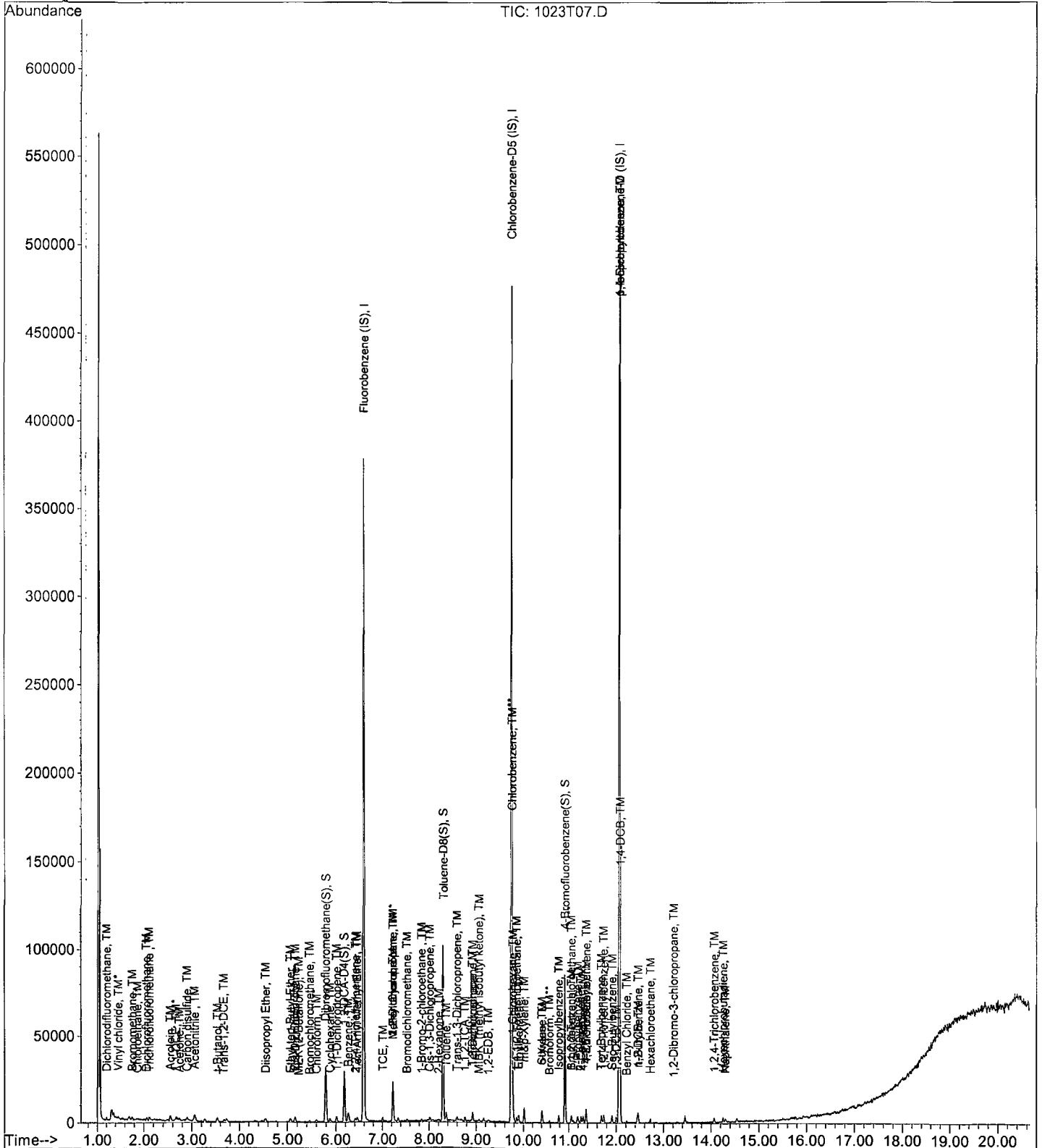
Data File : M:\THOR\DATA\T191023\1023T07.D
Acq On : 23 Oct 19 20:01
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T08.D
 Acq On : 23 Oct 19 20:29
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	186048	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	170048	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	96952	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	32509	9.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.260%	
45) 1,2-DCA-D4(S)	6.18	65	35862	8.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.724%	
66) Toluene-D8(S)	8.30	98	112166	8.83	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.332%	
74) 4-Bromofluorobenzene(S)	10.92	174	42473	8.45	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.796%	
Target Compounds						
3) Dichlorodifluoromethane	1.21	85	2213	1.28	ppb	# 81
4) Freon 114	1.32	85	1140	0.31	ppb	93
5) Chloromethane	1.36	50	2112	0.60	ppb	96
6) Vinyl chloride	1.46	62	1528	1.21	ppb	96
8) Bromomethane	1.75	96	1266	1.45	ppb	96
9) Chloroethane	1.86	64	2544	1.72	ppb	98
10) Dichlorofluoromethane	2.06	67	2822	1.23	ppb	92
11) Trichlorofluoromethane	2.12	101	2755	1.17	ppb	99
13) Acrolein	2.55	55	3800	53.36	ppb	80
14) Acetone	2.74	43	1592	3.48	ppb	# 79
15) Freon-113	2.69	101	702	-0.16	ppb	# 84
16) 1,1-DCE	2.66	61	2040	1.22	ppb	90
18) Acetonitrile	3.06	41	7539	47.94	ppb	92
19) t-Butanol	3.54	59	6157	49.86	ppb	96
21) Iodomethane	2.82	142	383	3.68	ppb	94
22) Acrylonitrile	3.62	53	431	1.01	ppb	# 78
24) Carbon disulfide	2.90	76	3805	1.15	ppb	# 93
25) Methyl t-butyl ether (MtBE)	3.73	73	4207	0.25	ppb	# 89
26) Trans-1,2-DCE	3.67	61	1800	1.10	ppb	93
28) Diisopropyl Ether	4.55	45	1587	1.12	ppb	# 83
30) 1,1-DCA	4.32	63	1319	0.31	ppb	# 79
31) Vinyl Acetate	4.56	87	1404	0.62	ppb	91
32) Ethyl tert Butyl Ether	5.06	59	3779	0.99	ppb	# 77
33) MEK (2-Butanone)	5.25	43	824	1.70	ppb	# 52
34) Cis-1,2-DCE	5.16	61	1979	1.00	ppb	# 70
35) 2,2-Dichloropropane	5.15	77	1108	1.09	ppb	# 58
38) Chloroform	5.60	83	1500	1.16	ppb	98
39) Bromochloromethane	5.46	130	644	1.16	ppb	# 48
41) 1,1,1-TCA	5.80	97	1182	0.18	ppb	# 79
42) Cyclohexane	5.87	84	1886	1.27	ppb	78
43) 1,1-Dichloropropene	6.02	75	1947	1.20	ppb	85
44) 2,2,4-Trimethylpentane	6.41	57	1717	1.24	ppb	93
46) Carbon Tetrachloride	6.01	119	2530	0.67	ppb	77
47) Tert Amyl Methyl Ether	6.45	73	4183	1.08	ppb	95
49) 1,2-DCA	6.26	62	2312	1.08	ppb	# 90
50) Benzene	6.25	78	5980	1.13	ppb	# 88
51) TCE	7.01	130	1838	1.12	ppb	87
52) 2-Pentanone	7.23	43	42744	51.67	ppb	96
53) 1,2-Dichloropropane	7.23	63	1521	1.13	ppb	# 88

(#) = qualifier out of range (m) = manual integration
 1023T08.D T1023W.M Wed Nov 20 13:59:12 2019

Data File : M:\THOR\DATA\T191023\1023T08.D
 Acq On : 23 Oct 19 20:29
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54) Bromodichloromethane	7.54	83	2148	1.04	ppb	# 68
55) Methyl Cyclohexane	7.22	83	2088	1.27	ppb	88
56) Dibromomethane	7.35	174	1320	0.68	ppb	90
57) MIBK (methyl isobutyl ket	9.05	43	515	1.66	ppb	# 73
58) 1-Bromo-2-chloroethane	7.85	63	1624	0.94	ppb	83
60) Cis-1,3-Dichloropropene	8.02	75	2365	1.10	ppb	98
61) Toluene	8.37	91	6781	1.13	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	1278	0.95	ppb	# 28
63) 1,1,2-TCA	8.77	97	1441	1.07	ppb	94
64) 2-Hexanone	8.21	43	758	1.76	ppb	# 71
67) 1,2-EDB	9.26	107	855	1.05	ppb	# 75
68) Tetrachloroethene	8.92	166	1113	0.69	ppb	92
69) 1-Chlorohexane	9.78	91	2319	1.25	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.86	131	1688	1.03	ppb	79
71) m&p-Xylene	10.02	91	10640	2.16	ppb	91
72) o-Xylene	10.40	91	5776	1.10	ppb	92
73) Styrene	10.42	104	3866	1.04	ppb	93
75) 1,3-Dichloropropane	8.93	76	2450	1.16	ppb	87
76) Dibromochloromethane	9.16	129	1649	0.91	ppb	# 81
77) Chlorobenzene	9.77	112	2697	1.08	ppb	# 91
78) Ethylbenzene	9.90	91	6258	1.02	ppb	96
79) Bromoform	10.58	173	996	0.93	ppb	# 30
81) Isopropylbenzene	10.78	105	7137	1.20	ppb	96
82) 1,1,2,2-Tetrachloroethane	11.06	83	1421	0.91	ppb	# 91
85) Bromobenzene	11.06	77	1841	1.19	ppb	91
86) n-Propylbenzene	11.19	91	7417	1.12	ppb	92
87) 4-Ethyltoluene	11.31	105	5822	1.02	ppb	92
88) 2-Chlorotoluene	11.26	91	3127	1.14	ppb	94
89) 1,3,5-Trimethylbenzene	11.31	105	5746	1.14	ppb	84
90) 4-Chlorotoluene	11.37	91	3169	1.01	ppb	# 85
91) Tert-Butylbenzene	11.69	119	4538	1.00	ppb	93
92) 1,2,4-Trimethylbenzene	11.74	105	5982	1.15	ppb	91
93) Sec-Butylbenzene	11.91	105	6363	1.08	ppb	# 92
94) p-Isopropyltoluene	12.06	119	5492	1.06	ppb	# 89
95) Benzyl Chloride	12.22	91	1279	1.06	ppb	# 92
96) 1,3-DCB	12.00	146	2616	1.16	ppb	92
97) 1,4-DCB	12.09	146	3564	1.04	ppb	99
98) n-Butylbenzene	12.47	91	4131	1.05	ppb	# 83
99) 1,2-DCB	12.46	146	2218	1.08	ppb	96
100) Hexachloroethane	12.72	117	620	0.98	ppb	92
101) 1,2-Dibromo-3-chloropropan	13.22	157	215	0.59	ppb	# 74
102) 1,2,4-Trichlorobenzene	14.06	182	1397	1.13	ppb	94
103) Hexachlorobutadiene	14.25	225	759	1.01	ppb	# 33
104) Naphthalene	14.30	128	3115	1.00	ppb	96
105) 1,2,3-Trichlorobenzene	14.54	182	2012	0.99	ppb	# 69

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

Quantitation Report

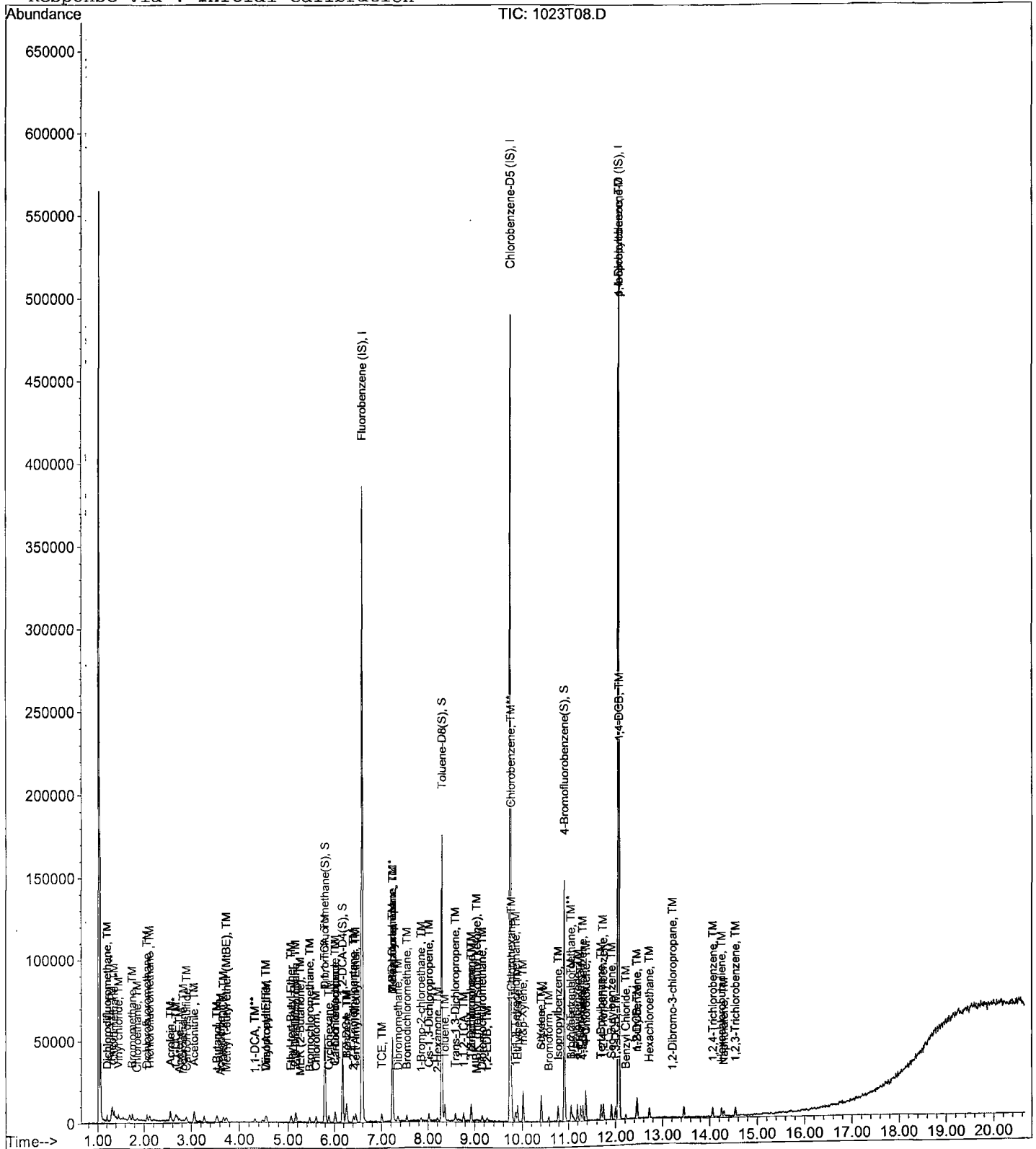
Data File : M:\THOR\DATA\T191023\1023T08.D
Acq On : 23 Oct 19 20:29
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T09.D
 Acq On : 23 Oct 19 20:58
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	182336	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	173696	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	94992	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	33009	9.39	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.568%	
45) 1,2-DCA-D4(S)	6.18	65	37488	9.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.104%	
66) Toluene-D8(S)	8.30	98	117350	9.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.188%	
74) 4-Bromofluorobenzene(S)	10.92	174	44756	8.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.864%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	3175	1.88	ppb	Qvalue 97
4) Freon 114	1.32	85	1910	1.49	ppb	85
5) Chloromethane	1.36	50	3317	1.63	ppb	# 81
6) Vinyl chloride	1.46	62	2252	1.82	ppb	90
8) Bromomethane	1.75	96	1934	2.41	ppb	83
9) Chloroethane	1.86	64	2460	1.68	ppb	# 73
10) Dichlorofluoromethane	2.06	67	4804	2.14	ppb	89
11) Trichlorofluoromethane	2.12	101	4673	2.03	ppb	97
13) Acrolein	2.55	55	5067	72.60	ppb	97
14) Acetone	2.74	43	2190	4.88	ppb	# 76
15) Freon-113	2.70	101	2181	1.55	ppb	# 88
16) 1,1-DCE	2.67	61	3464	2.12	ppb	92
18) Acetonitrile	3.06	41	11213	74.43	ppb	97
19) t-Butanol	3.54	59	8922	73.72	ppb	93
20) Methyl Acetate	3.18	43	1823	1.05	ppb	# 78
21) Iodomethane	2.82	142	462	3.74	ppb	88
22) Acrylonitrile	3.62	53	953	2.28	ppb	92
23) Methylene chloride	3.27	49	3370	1.08	ppb	87
24) Carbon disulfide	2.89	76	6588	2.19	ppb	98
25) Methyl t-butyl ether (MtBE)	3.73	73	7916	1.39	ppb	# 89
26) Trans-1,2-DCE	3.68	61	3481	2.18	ppb	89
28) Diisopropyl Ether	4.55	45	2949	2.12	ppb	97
30) 1,1-DCA	4.32	63	2103	1.32	ppb	# 92
31) Vinyl Acetate	4.55	87	2156	1.39	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	7839	2.10	ppb	99
33) MEK (2-Butanone)	5.22	43	1288	2.71	ppb	# 73
34) Cis-1,2-DCE	5.16	61	4117	2.13	ppb	95
35) 2,2-Dichloropropane	5.16	77	1799	2.05	ppb	93
38) Chloroform	5.59	83	2498	1.97	ppb	97
39) Bromochloromethane	5.46	130	1094	2.01	ppb	90
41) 1,1,1-TCA	5.80	97	2390	1.46	ppb	94
42) Cyclohexane	5.87	84	3158	2.16	ppb	79
43) 1,1-Dichloropropene	6.02	75	3070	1.93	ppb	92
44) 2,2,4-Trimethylpentane	6.41	57	2379	1.89	ppb	99
46) Carbon Tetrachloride	6.01	119	3701	1.36	ppb	88
47) Tert Amyl Methyl Ether	6.46	73	7829	2.06	ppb	95
49) 1,2-DCA	6.27	62	2248	1.06	ppb	93
50) Benzene	6.25	78	10480	2.02	ppb	95
51) TCE	7.00	130	3335	2.07	ppb	95

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

Data File : M:\THOR\DATA\T191023\1023T09.D
 Acq On : 23 Oct 19 20:58
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 9
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	60760	74.94	ppb	97
53) 1,2-Dichloropropane	7.23	63	3079	2.34	ppb #	98
54) Bromodichloromethane	7.54	83	4329	2.14	ppb	99
55) Methyl Cyclohexane	7.22	83	3239	2.01	ppb	85
56) Dibromomethane	7.34	174	1893	1.22	ppb	97
57) MIBK (methyl isobutyl ket	9.05	43	929	2.63	ppb #	84
58) 1-Bromo-2-chloroethane	7.85	63	3667	2.16	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	4282	2.03	ppb	95
61) Toluene	8.37	91	11816	2.01	ppb	97
62) Trans-1,3-Dichloropropene	8.59	75	2529	1.92	ppb #	65
63) 1,1,2-TCA	8.77	97	2858	2.17	ppb	79
64) 2-Hexanone	8.20	43	1337	2.66	ppb #	89
67) 1,2-EDB	9.26	107	1686	2.03	ppb	80
68) Tetrachloroethene	8.92	166	3619	2.20	ppb	93
69) 1-Chlorohexane	9.77	91	2745	1.51	ppb	92
70) 1,1,1,2-Tetrachloroethane	9.85	131	3220	1.92	ppb	97
71) m&p-Xylene	10.02	91	19574	3.89	ppb	100
72) o-Xylene	10.40	91	10335	1.92	ppb	93
73) Styrene	10.42	104	6848	1.80	ppb	90
75) 1,3-Dichloropropane	8.93	76	4414	2.04	ppb	96
76) Dibromochloromethane	9.16	129	3293	1.87	ppb	83
77) Chlorobenzene	9.77	112	4853	1.89	ppb	96
78) Ethylbenzene	9.90	91	12886	2.05	ppb	92
79) Bromoform	10.58	173	2663	2.11	ppb	90
81) Isopropylbenzene	10.78	105	11630	1.99	ppb #	92
82) 1,1,2,2-Tetrachloroethane	11.05	83	3377	2.20	ppb #	92
83) 1,2,3-Trichloropropane	11.09	110	1011	1.06	ppb #	76
84) t-1,4-Dichloro-2-Butene	11.12	53	612	1.33	ppb	90
85) Bromobenzene	11.06	77	3079	2.02	ppb	80
86) n-Propylbenzene	11.19	91	13209	2.04	ppb	98
87) 4-Ethyltoluene	11.31	105	11432	2.05	ppb	97
88) 2-Chlorotoluene	11.26	91	5743	2.14	ppb	91
89) 1,3,5-Trimethylbenzene	11.37	105	9508	1.92	ppb	97
90) 4-Chlorotoluene	11.37	91	6696	2.19	ppb	96
91) Tert-Butylbenzene	11.69	119	9964	2.23	ppb	86
92) 1,2,4-Trimethylbenzene	11.74	105	10392	2.05	ppb	92
93) Sec-Butylbenzene	11.91	105	11421	1.97	ppb	97
94) p-Isopropyltoluene	12.06	119	10147	2.00	ppb	99
95) Benzyl Chloride	12.22	91	2084	1.76	ppb	96
96) 1,3-DCB	12.00	146	4196	1.90	ppb	97
97) 1,4-DCB	12.09	146	7220	2.16	ppb	97
98) n-Butylbenzene	12.47	91	7641	1.98	ppb	98
99) 1,2-DCB	12.46	146	4008	1.99	ppb	96
100) Hexachloroethane	12.72	117	1365	2.21	ppb	88
101) 1,2-Dibromo-3-chloropropan	13.22	157	426	1.62	ppb #	79
102) 1,2,4-Trichlorobenzene	14.06	182	2163	1.79	ppb #	84
103) Hexachlorobutadiene	14.26	225	1261	1.71	ppb	95
104) Naphthalene	14.30	128	5533	1.81	ppb	93
105) 1,2,3-Trichlorobenzene	14.55	182	3184	1.72	ppb #	75

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

Quantitation Report

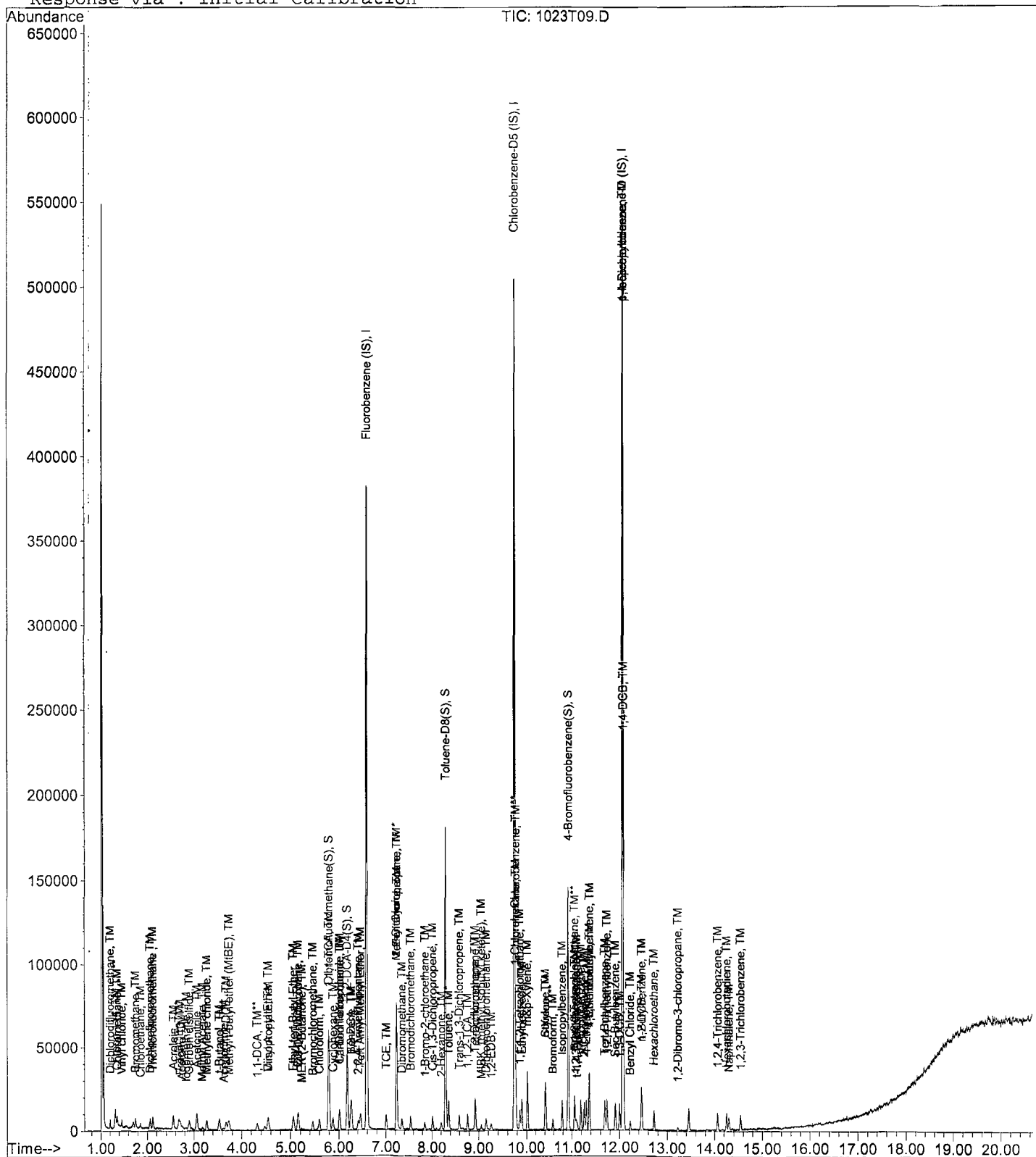
Data File : M:\THOR\DATA\T191023\1023T09.D
Acq On : 23 Oct 19 20:58
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T10.D
 Acq On : 23 Oct 19 21:26
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	183104	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	171200	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	96128	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	86276	24.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.780%	
45) 1,2-DCA-D4(S)	6.18	65	97911	24.78	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.104%	
66) Toluene-D8(S)	8.30	98	311553	24.37	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.476%	
74) 4-Bromofluorobenzene(S)	10.92	174	123213	24.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.376%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.21	85	7047	4.15	ppb	100
4) Freon 114	1.32	85	3426	3.73	ppb	92
5) Chloromethane	1.36	50	6891	4.54	ppb	97
6) Vinyl chloride	1.46	62	5392	4.34	ppb	92
8) Bromomethane	1.75	96	3752	4.92	ppb	100
9) Chloroethane	1.86	64	4122	3.80	ppb	90
10) Dichlorofluoromethane	2.06	67	10226	4.54	ppb	92
11) Trichlorofluoromethane	2.12	101	9773	4.22	ppb	99
13) Acrolein	2.55	55	6587	93.99	ppb	94
14) Acetone	2.74	43	3112	6.90	ppb	91
15) Freon-113	2.70	101	4455	4.13	ppb	94
16) 1,1-DCE	2.66	61	7366	4.49	ppb	96
18) Acetonitrile	3.06	41	14951	99.89	ppb	97
19) t-Butanol	3.54	59	12184	100.25	ppb	95
20) Methyl Acetate	3.18	43	4022	4.10	ppb	97
21) Iodomethane	2.82	142	1130	4.26	ppb	96
22) Acrylonitrile	3.62	53	1849	4.41	ppb	# 79
23) Methylene chloride	3.27	49	6871	3.77	ppb	95
24) Carbon disulfide	2.89	76	12647	4.37	ppb	# 93
25) Methyl t-butyl ether (MtBE)	3.73	73	17467	4.24	ppb	95
26) Trans-1,2-DCE	3.68	61	7009	4.37	ppb	93
28) Diisopropyl Ether	4.55	45	6353	4.56	ppb	90
30) 1,1-DCA	4.32	63	4303	4.02	ppb	96
31) Vinyl Acetate	4.54	87	4879	4.04	ppb	84
32) Ethyl tert Butyl Ether	5.06	59	17047	4.54	ppb	# 89
33) MEK (2-Butanone)	5.23	43	2473	5.18	ppb	# 57
34) Cis-1,2-DCE	5.16	61	8972	4.62	ppb	# 84
35) 2,2-Dichloropropane	5.15	77	3565	4.40	ppb	95
38) Chloroform	5.60	83	5919	4.65	ppb	98
39) Bromochloromethane	5.47	130	2359	4.32	ppb	83
41) 1,1,1-TCA	5.81	97	4991	4.13	ppb	94
42) Cyclohexane	5.88	84	6309	4.31	ppb	80
43) 1,1-Dichloropropene	6.02	75	7151	4.47	ppb	96
44) 2,2,4-Trimethylpentane	6.41	57	4801	4.13	ppb	99
46) Carbon Tetrachloride	6.02	119	8319	3.96	ppb	83
47) Tert Amyl Methyl Ether	6.46	73	17800	4.67	ppb	97
49) 1,2-DCA	6.27	62	4860	3.72	ppb	96
50) Benzene	6.25	78	24326	4.67	ppb	97
51) TCE	7.01	130	7152	4.42	ppb	92

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

Data File : M:\THOR\DATA\T191023\1023T10.D
 Acq On : 23 Oct 19 21:26
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 10
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	80479	98.85	ppb	98
53) 1,2-Dichloropropane	7.23	63	5830	4.40	ppb #	84
54) Bromodichloromethane	7.54	83	9397	4.63	ppb #	98
55) Methyl Cyclohexane	7.22	83	7317	4.53	ppb	96
56) Dibromomethane	7.35	174	4797	3.82	ppb	91
57) MIBK (methyl isobutyl ket	9.05	43	2096	5.25	ppb #	86
58) 1-Bromo-2-chloroethane	7.85	63	7637	4.48	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	9274	4.37	ppb	97
61) Toluene	8.37	91	26261	4.45	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	5833	4.40	ppb	85
63) 1,1,2-TCA	8.77	97	6039	4.56	ppb	96
64) 2-Hexanone	8.20	43	2503	4.40	ppb	92
67) 1,2-EDB	9.26	107	4010	4.89	ppb	89
68) Tetrachloroethene	8.92	166	8026	4.95	ppb	98
69) 1-Chlorohexane	9.77	91	7147	4.60	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.86	131	7493	4.52	ppb	96
71) m&p-Xylene	10.02	91	44412	8.96	ppb	98
72) o-Xylene	10.41	91	23275	4.39	ppb	96
73) Styrene	10.42	104	16167	4.30	ppb	97
75) 1,3-Dichloropropane	8.93	76	10123	4.74	ppb	100
76) Dibromochloromethane	9.16	129	7218	4.29	ppb	94
77) Chlorobenzene	9.77	112	11774	4.66	ppb	100
78) Ethylbenzene	9.89	91	27457	4.44	ppb	96
79) Bromoform	10.58	173	6093	4.66	ppb	92
81) Isopropylbenzene	10.78	105	27436	4.65	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.06	83	7046	4.54	ppb #	94
83) 1,2,3-Trichloropropane	11.09	110	2559	4.29	ppb	89
84) t-1,4-Dichloro-2-Butene	11.12	53	1788	5.37	ppb #	61
85) Bromobenzene	11.06	77	7073	4.60	ppb	88
86) n-Propylbenzene	11.19	91	29626	4.51	ppb	97
87) 4-Ethyltoluene	11.31	105	26056	4.63	ppb	97
88) 2-Chlorotoluene	11.26	91	13299	4.89	ppb	95
89) 1,3,5-Trimethylbenzene	11.37	105	23914	4.78	ppb	96
90) 4-Chlorotoluene	11.37	91	13927	4.50	ppb	97
91) Tert-Butylbenzene	11.69	119	23226	5.14	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	24100	4.69	ppb	95
93) Sec-Butylbenzene	11.91	105	26773	4.57	ppb	96
94) p-Isopropyltoluene	12.06	119	23556	4.58	ppb	96
95) Benzyl Chloride	12.22	91	5914	4.92	ppb	99
96) 1,3-DCB	12.00	146	9295	4.15	ppb	97
97) 1,4-DCB	12.09	146	15209	4.49	ppb	97
98) n-Butylbenzene	12.46	91	17108	4.38	ppb	97
99) 1,2-DCB	12.45	146	9205	4.52	ppb	96
100) Hexachloroethane	12.72	117	2949	4.71	ppb	96
101) 1,2-Dibromo-3-chloropropan	13.22	157	1225	5.34	ppb #	67
102) 1,2,4-Trichlorobenzene	14.06	182	5412	4.43	ppb	98
103) Hexachlorobutadiene	14.25	225	3450	4.61	ppb #	55
104) Naphthalene	14.30	128	13148	4.26	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	7810	4.45	ppb #	78

(#) = qualifier out of range (m) = manual integration
 1023T10.D T1023W.M Wed Nov 20 13:59:17 2019

Quantitation Report

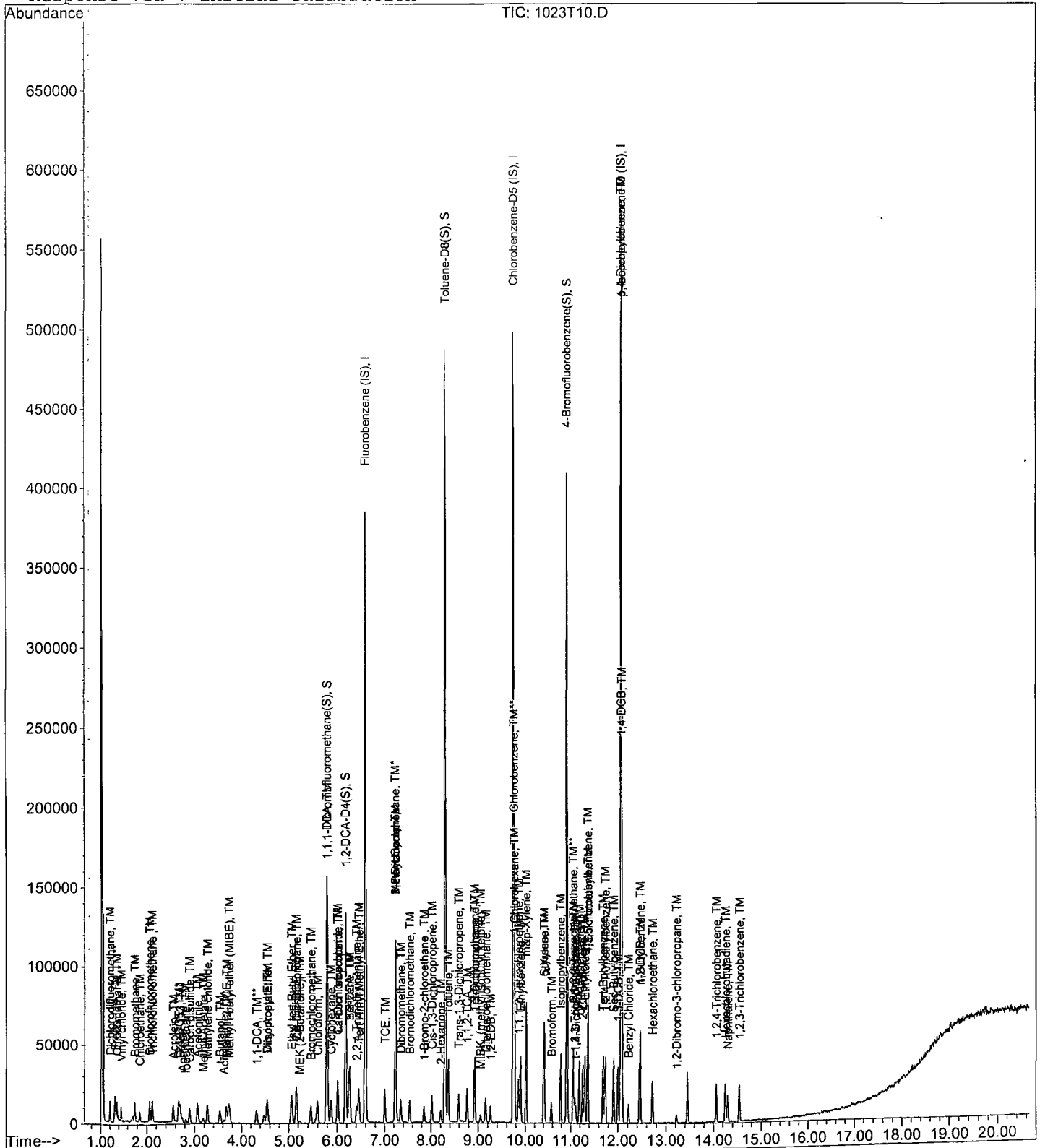
Data File : M:\THOR\DATA\T191023\1023T10.D
Acq On : 23 Oct 19 21:26
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T11.D
 Acq On : 23 Oct 19 21:55
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178432	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	159872	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	97112	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	86393	25.12	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.476%	
45) 1,2-DCA-D4(S)	6.18	65	98312	25.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.112%	
66) Toluene-D8(S)	8.30	98	314020	26.30	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.208%	
74) 4-Bromofluorobenzene(S)	10.92	174	123099	26.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	104.180%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.20	85	14932	9.03	ppb	100
4) Freon 114	1.32	85	7672	10.34	ppb	100
5) Chloromethane	1.36	50	13913	10.59	ppb	100
6) Vinyl chloride	1.46	62	11629	9.61	ppb	100
8) Bromomethane	1.75	96	6929	9.57	ppb	100
9) Chloroethane	1.86	64	8442	9.63	ppb	100
10) Dichlorofluoromethane	2.06	67	21099	9.60	ppb	100
11) Trichlorofluoromethane	2.12	101	20797	9.22	ppb	100
13) Acrolein	2.55	55	8793	128.75	ppb	100
14) Acetone	2.74	43	4950	11.27	ppb	100
15) Freon-113	2.70	101	9462	10.12	ppb	100
16) 1,1-DCE	2.67	61	14233	8.91	ppb	100
18) Acetonitrile	3.06	41	18272	126.10	ppb	100
19) t-Butanol	3.53	59	14643	123.64	ppb	100
20) Methyl Acetate	3.18	43	8327	10.39	ppb	100
21) Iodomethane	2.82	142	6698	8.68	ppb	100
22) Acrylonitrile	3.62	53	4020	9.84	ppb	100
23) Methylene chloride	3.27	49	14626	10.05	ppb	100
24) Carbon disulfide	2.90	76	27007	9.83	ppb	100
25) Methyl t-butyl ether (MtBE)	3.73	73	36251	10.13	ppb	100
26) Trans-1,2-DCE	3.68	61	15076	9.64	ppb	100
28) Diisopropyl Ether	4.55	45	11939	8.79	ppb	100
30) 1,1-DCA	4.32	63	8893	9.98	ppb	100
31) Vinyl Acetate	4.54	87	10490	9.80	ppb	100
32) Ethyl tert Butyl Ether	5.06	59	37233	10.18	ppb	100
33) MEK (2-Butanone)	5.23	43	4883	10.51	ppb	100
34) Cis-1,2-DCE	5.16	61	18914	9.99	ppb	100
35) 2,2-Dichloropropane	5.16	77	7007	9.26	ppb	100
38) Chloroform	5.60	83	12348	9.95	ppb	100
39) Bromochloromethane	5.46	130	5202	9.77	ppb	100
41) 1,1,1-TCA	5.80	97	10621	10.21	ppb	100
42) Cyclohexane	5.88	84	12619	8.84	ppb	100
43) 1,1-Dichloropropene	6.02	75	14583	9.35	ppb	100
44) 2,2,4-Trimethylpentane	6.41	57	10115	9.30	ppb	100
46) Carbon Tetrachloride	6.01	119	17586	9.45	ppb	100
47) Tert Amyl Methyl Ether	6.46	73	35058	9.44	ppb	100
49) 1,2-DCA	6.27	62	9957	9.19	ppb	100
50) Benzene	6.25	78	47545	9.36	ppb	100
51) TCE	7.01	130	14677	9.32	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023T11.D T1023W.M Wed Nov 20 13:59:20 2019

Data File : M:\THOR\DATA\T191023\1023T11.D
 Acq On : 23 Oct 19 21:55
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 11
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	98031	123.56	ppb	100
53) 1,2-Dichloropropane	7.23	63	12213	9.46	ppb	100
54) Bromodichloromethane	7.54	83	19074	9.65	ppb	100
55) Methyl Cyclohexane	7.22	83	14678	9.33	ppb	100
56) Dibromomethane	7.35	174	10360	9.04	ppb	100
57) MIBK (methyl isobutyl ket	9.05	43	3951	9.67	ppb	100
58) 1-Bromo-2-chloroethane	7.85	63	16743	10.07	ppb	100
60) Cis-1,3-Dichloropropene	8.02	75	20283	9.82	ppb	100
61) Toluene	8.37	91	55194	9.59	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	12534	9.70	ppb	100
63) 1,1,2-TCA	8.77	97	13065	10.12	ppb	100
64) 2-Hexanone	8.20	43	5964	9.85	ppb	100
67) 1,2-EDB	9.26	107	7535	9.84	ppb	100
68) Tetrachloroethene	8.92	166	16538	10.92	ppb	100
69) 1-Chlorohexane	9.78	91	14226	10.24	ppb	100
70) 1,1,1,2-Tetrachloroethane	9.86	131	15300	9.89	ppb	100
71) m&p-Xylene	10.02	91	94120	20.33	ppb	100
72) o-Xylene	10.40	91	51227	10.35	ppb	100
73) Styrene	10.42	104	35722	10.18	ppb	100
75) 1,3-Dichloropropane	8.93	76	20155	10.11	ppb	100
76) Dibromochloromethane	9.15	129	16704	10.78	ppb	100
77) Chlorobenzene	9.77	112	24896	10.56	ppb	100
78) Ethylbenzene	9.90	91	58576	10.14	ppb	100
79) Bromoform	10.58	173	13279	10.61	ppb	100
81) Isopropylbenzene	10.78	105	60153	10.08	ppb	100
82) 1,1,2,2-Tetrachloroethane	11.05	83	16130	10.28	ppb	100
83) 1,2,3-Trichloropropane	11.09	110	5570	10.50	ppb	100
84) t-1,4-Dichloro-2-Butene	11.12	53	3236	10.26	ppb	100
85) Bromobenzene	11.06	77	15582	10.02	ppb	100
86) n-Propylbenzene	11.19	91	63613	9.59	ppb	100
87) 4-Ethyltoluene	11.31	105	55797	9.81	ppb	100
88) 2-Chlorotoluene	11.26	91	26018	9.46	ppb	100
89) 1,3,5-Trimethylbenzene	11.37	105	50646	10.01	ppb	100
90) 4-Chlorotoluene	11.37	91	31560	10.09	ppb	100
91) Tert-Butylbenzene	11.69	119	43879	9.61	ppb	100
92) 1,2,4-Trimethylbenzene	11.74	105	50506	9.74	ppb	100
93) Sec-Butylbenzene	11.91	105	58662	9.91	ppb	100
94) p-Isopropyltoluene	12.06	119	53371	10.27	ppb	100
95) Benzyl Chloride	12.22	91	11283	9.30	ppb	100
96) 1,3-DCB	12.00	146	21112	9.34	ppb	100
97) 1,4-DCB	12.09	146	31903	9.32	ppb	100
98) n-Butylbenzene	12.46	91	37788	9.57	ppb	100
99) 1,2-DCB	12.45	146	20424	9.93	ppb	100
100) Hexachloroethane	12.72	117	6566	10.39	ppb	100
101) 1,2-Dibromo-3-chloropropan	13.22	157	2059	9.16	ppb	100
102) 1,2,4-Trichlorobenzene	14.06	182	12002	9.73	ppb	100
103) Hexachlorobutadiene	14.25	225	7655	10.13	ppb	100
104) Naphthalene	14.30	128	28762	9.22	ppb	100
105) 1,2,3-Trichlorobenzene	14.54	182	15183	8.74	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023T11.D T1023W.M Wed Nov 20 13:59:20 2019

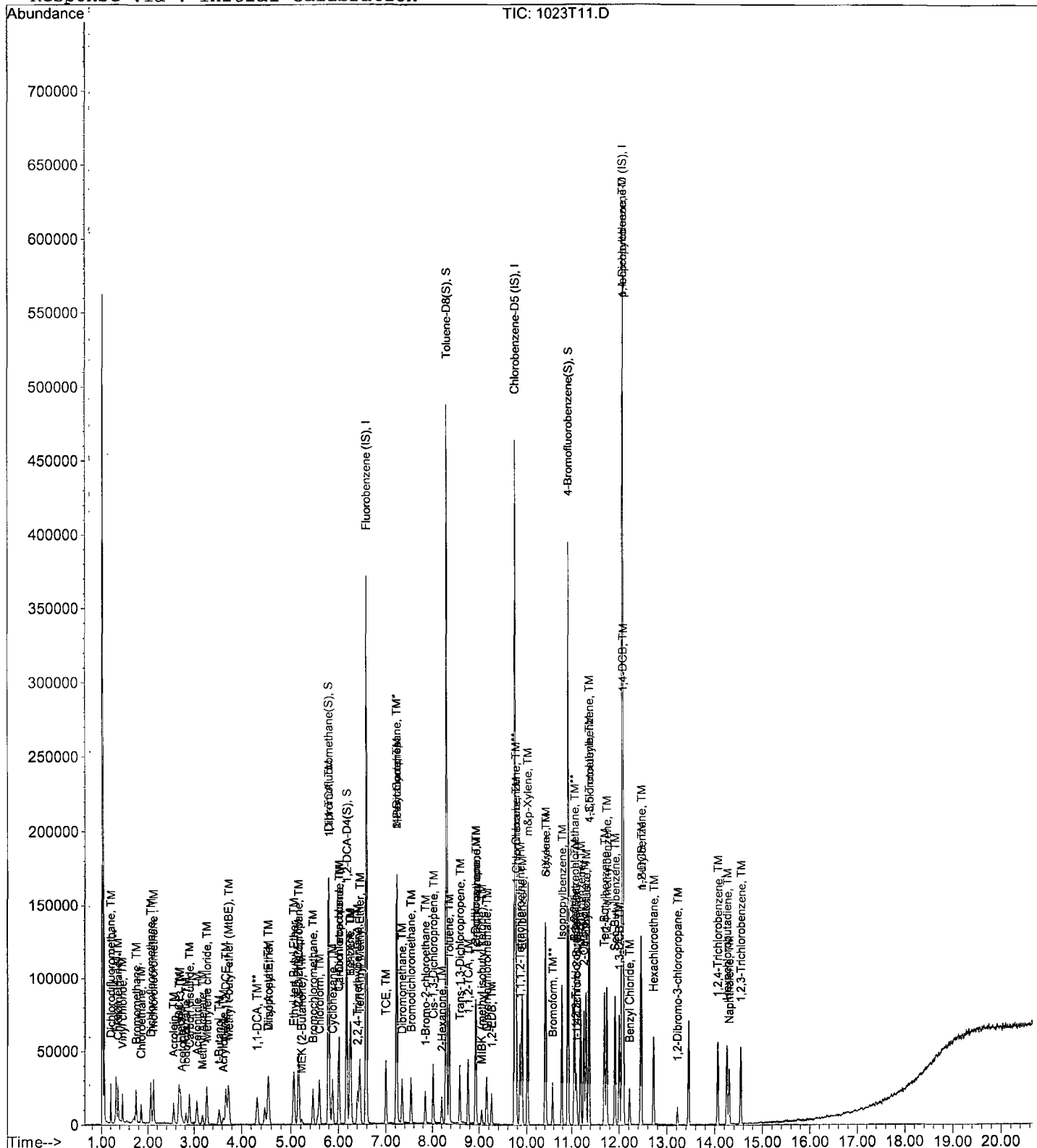
Data File : M:\THOR\DATA\T191023\1023T11.D
Acq On : 23 Oct 19 21:55
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T12.D
 Acq On : 23 Oct 19 22:23
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	180864	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	175808	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	103912	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	175433	50.32	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.288%	
45) 1,2-DCA-D4(S)	6.18	65	197560	50.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.440%	
66) Toluene-D8(S)	8.30	98	624922	47.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.396%	
74) 4-Bromofluorobenzene(S)	10.92	174	252217	48.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	194.104%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	32288	19.26	ppb	Qvalue 97
4) Freon 114	1.32	85	15354	21.74	ppb	96
5) Chloromethane	1.36	50	25641	20.15	ppb	100
6) Vinyl chloride	1.46	62	22773	18.57	ppb	100
8) Bromomethane	1.75	96	14084	19.47	ppb	95
9) Chloroethane	1.85	64	16775	20.31	ppb	100
10) Dichlorofluoromethane	2.06	67	43411	19.49	ppb	96
11) Trichlorofluoromethane	2.12	101	44383	19.42	ppb	95
13) Acrolein	2.55	55	9785	141.35	ppb	92
14) Acetone	2.74	43	8290	18.61	ppb	97
15) Freon-113	2.69	101	19524	21.58	ppb	94
16) 1,1-DCE	2.67	61	32010	19.76	ppb	93
18) Acetonitrile	3.06	41	22103	151.11	ppb	# 88
19) t-Butanol	3.54	59	17879	148.94	ppb	# 93
20) Methyl Acetate	3.18	43	16422	21.63	ppb	90
21) Iodomethane	2.82	142	18596	17.90	ppb	96
22) Acrylonitrile	3.62	53	8318	20.08	ppb	98
23) Methylene chloride	3.27	49	29061	21.18	ppb	94
24) Carbon disulfide	2.89	76	53453	19.39	ppb	95
25) Methyl t-butyl ether (MtBE)	3.73	73	71271	20.58	ppb	# 94
26) Trans-1,2-DCE	3.67	61	30537	19.27	ppb	96
28) Diisopropyl Ether	4.55	45	27088	19.67	ppb	93
30) 1,1-DCA	4.32	63	18088	21.33	ppb	96
31) Vinyl Acetate	4.54	87	21636	20.70	ppb	98
32) Ethyl tert Butyl Ether	5.06	59	74470	20.10	ppb	96
33) MEK (2-Butanone)	5.22	43	9649	20.48	ppb	# 90
34) Cis-1,2-DCE	5.16	61	38891	20.27	ppb	97
35) 2,2-Dichloropropane	5.15	77	15543	20.72	ppb	95
38) Chloroform	5.60	83	25136	19.99	ppb	96
39) Bromochloromethane	5.46	130	10607	19.65	ppb	92
41) 1,1,1-TCA	5.80	97	20576	20.43	ppb	89
42) Cyclohexane	5.88	84	26588	18.37	ppb	90
43) 1,1-Dichloropropene	6.02	75	30088	19.04	ppb	94
44) 2,2,4-Trimethylpentane	6.41	57	22144	20.47	ppb	99
46) Carbon Tetrachloride	6.01	119	37078	20.44	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	73559	19.54	ppb	98
49) 1,2-DCA	6.27	62	22504	22.02	ppb	96
50) Benzene	6.25	78	97763	19.00	ppb	97
51) TCE	7.01	130	29788	18.66	ppb	95

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

Data File : M:\THOR\DATA\T191023\1023T12.D
 Acq On : 23 Oct 19 22:23
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	124053	154.25	ppb	96
53) 1,2-Dichloropropane	7.23	63	24827	18.98	ppb	100
54) Bromodichloromethane	7.54	83	39295	19.62	ppb #	94
55) Methyl Cyclohexane	7.22	83	30988	19.43	ppb	98
56) Dibromomethane	7.35	174	23876	21.17	ppb	96
57) MIBK (methyl isobutyl ket	9.05	43	7826	18.40	ppb	95
58) 1-Bromo-2-chloroethane	7.85	63	33960	20.15	ppb	97
60) Cis-1,3-Dichloropropene	8.02	75	39658	18.93	ppb	96
61) Toluene	8.36	91	113096	19.39	ppb	100
62) Trans-1,3-Dichloropropene	8.59	75	25936	19.81	ppb	100
63) 1,1,2-TCA	8.77	97	25504	19.50	ppb	99
64) 2-Hexanone	8.20	43	12225	19.26	ppb	96
67) 1,2-EDB	9.26	107	16136	19.17	ppb	87
68) Tetrachloroethene	8.92	166	33107	19.88	ppb	96
69) 1-Chlorohexane	9.77	91	30211	20.12	ppb	97
70) 1,1,1,2-Tetrachloroethane	9.86	131	31868	18.73	ppb	98
71) m&p-Xylene	10.02	91	196759	38.64	ppb	99
72) o-Xylene	10.40	91	102100	18.76	ppb	97
73) Styrene	10.42	104	73591	19.06	ppb	100
75) 1,3-Dichloropropane	8.93	76	41806	19.06	ppb	97
76) Dibromochloromethane	9.15	129	33143	19.54	ppb	99
77) Chlorobenzene	9.77	112	48784	18.82	ppb	97
78) Ethylbenzene	9.90	91	122474	19.27	ppb	99
79) Bromoform	10.58	173	27267	19.65	ppb	91
81) Isopropylbenzene	10.78	105	119982	18.79	ppb	97
82) 1,1,2,2-Tetrachloroethane	11.05	83	33329	19.86	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	11514	21.30	ppb #	88
84) t-1,4-Dichloro-2-Butene	11.12	53	6726	20.70	ppb	93
85) Bromobenzene	11.05	77	30824	18.53	ppb	92
86) n-Propylbenzene	11.19	91	134615	18.97	ppb	97
87) 4-Ethyltoluene	11.31	105	116893	19.20	ppb	98
88) 2-Chlorotoluene	11.26	91	56665	19.26	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	106438	19.66	ppb	97
90) 4-Chlorotoluene	11.37	91	65432	19.54	ppb	96
91) Tert-Butylbenzene	11.69	119	92727	18.98	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	106050	19.10	ppb	100
93) Sec-Butylbenzene	11.91	105	121580	19.20	ppb	99
94) p-Isopropyltoluene	12.06	119	110194	19.82	ppb	98
95) Benzyl Chloride	12.22	91	24960	19.22	ppb	96
96) 1,3-DCB	12.00	146	43120	17.83	ppb	99
97) 1,4-DCB	12.09	146	66795	18.23	ppb	94
98) n-Butylbenzene	12.47	91	82217	19.46	ppb	94
99) 1,2-DCB	12.46	146	41000	18.63	ppb	100
100) Hexachloroethane	12.72	117	12173	18.00	ppb	86
101) 1,2-Dibromo-3-chloropropan	13.22	157	4549	19.35	ppb #	86
102) 1,2,4-Trichlorobenzene	14.06	182	25808	19.54	ppb	96
103) Hexachlorobutadiene	14.25	225	14803	18.31	ppb	89
104) Naphthalene	14.30	128	66553	19.93	ppb	100
105) 1,2,3-Trichlorobenzene	14.54	182	36151	19.68	ppb	84

(#) = qualifier out of range (m) = manual integration
 1023T12.D T1023W.M Wed Nov 20 13:59:23 2019

Quantitation Report

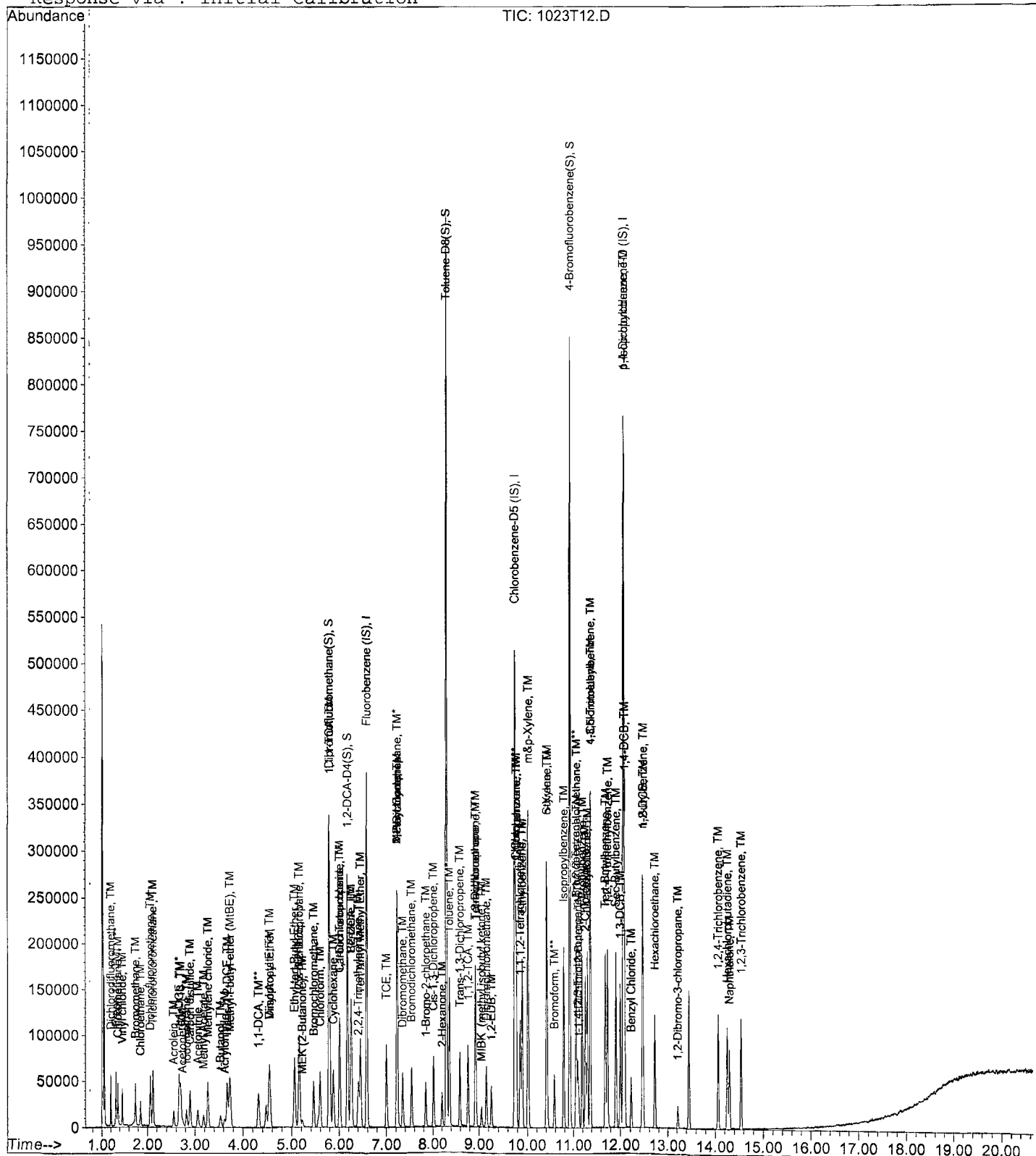
Data File : M:\THOR\DATA\T191023\1023T12.D
 Acq On : 23 Oct 19 22:23
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 12
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T13.D
 Acq On : 23 Oct 19 22:52
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	169472	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	101648	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	174185	50.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.652%	
45) 1,2-DCA-D4(S)	6.18	65	193525	50.27	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.080%	
66) Toluene-D8(S)	8.30	98	644008	50.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.544%	
74) 4-Bromofluorobenzene(S)	10.92	174	254916	50.88	ppb	0.00
Spiked Amount	25.000		Recovery	=	203.516%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	63760	38.56	ppb	Qvalue 95
4) Freon 114	1.32	85	29000	42.87	ppb	96
5) Chloromethane	1.36	50	51152	41.89	ppb	99
6) Vinyl chloride	1.46	62	46109	38.12	ppb	98
8) Bromomethane	1.74	96	28488	40.22	ppb	94
9) Chloroethane	1.85	64	31831	40.46	ppb	97
10) Dichlorofluoromethane	2.06	67	88454	40.27	ppb	97
11) Trichlorofluoromethane	2.11	101	89037	39.50	ppb	97
13) Acrolein	2.55	55	11710	171.52	ppb	99
14) Acetone	2.74	43	14990	34.13	ppb	96
15) Freon-113	2.70	101	37981	43.49	ppb	# 93
16) 1,1-DCE	2.66	61	62037	38.83	ppb	96
18) Acetonitrile	3.06	41	25122	174.65	ppb	98
19) t-Butanol	3.54	59	20185	170.50	ppb	97
20) Methyl Acetate	3.18	43	31651	43.69	ppb	95
21) Iodomethane	2.82	142	44603	38.69	ppb	97
22) Acrylonitrile	3.62	53	16801	41.12	ppb	93
23) Methylene chloride	3.27	49	59157	45.35	ppb	93
24) Carbon disulfide	2.89	76	111137	41.12	ppb	97
25) Methyl t-butyl ether (MtBE)	3.73	73	145366	43.62	ppb	95
26) Trans-1,2-DCE	3.67	61	64627	41.36	ppb	100
28) Diisopropyl Ether	4.54	45	52598	38.74	ppb	97
30) 1,1-DCA	4.32	63	35560	43.80	ppb	97
31) Vinyl Acetate	4.54	87	44516	43.98	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	150408	41.16	ppb	92
33) MEK (2-Butanone)	5.22	43	20713	44.58	ppb	# 85
34) Cis-1,2-DCE	5.16	61	79565	42.05	ppb	99
35) 2,2-Dichloropropane	5.15	77	32216	43.95	ppb	96
38) Chloroform	5.60	83	50728	40.90	ppb	98
39) Bromochloromethane	5.46	130	20600	38.70	ppb	93
41) 1,1,1-TCA	5.80	97	42512	43.91	ppb	91
42) Cyclohexane	5.88	84	55927	39.18	ppb	87
43) 1,1-Dichloropropene	6.02	75	63308	40.62	ppb	90
44) 2,2,4-Trimethylpentane	6.41	57	44048	41.62	ppb	99
46) Carbon Tetrachloride	6.01	119	79257	45.17	ppb	88
47) Tert Amyl Methyl Ether	6.45	73	152156	40.97	ppb	99
49) 1,2-DCA	6.27	62	42800	43.61	ppb	96
50) Benzene	6.25	78	197816	38.98	ppb	96
51) TCE	7.00	130	62914	39.96	ppb	96

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

Data File : M:\THOR\DATA\T191023\1023T13.D
 Acq On : 23 Oct 19 22:52
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 13
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	143761	181.26	ppb	99
53) 1,2-Dichloropropane	7.23	63	51484	39.91	ppb	95
54) Bromodichloromethane	7.54	83	78938	39.97	ppb	96
55) Methyl Cyclohexane	7.22	83	61467	39.08	ppb	97
56) Dibromomethane	7.35	174	49408	44.96	ppb	97
57) MIBK (methyl isobutyl ket	9.05	43	16584	38.93	ppb	92
58) 1-Bromo-2-chloroethane	7.85	63	69691	41.92	ppb	92
60) Cis-1,3-Dichloropropene	8.02	75	84020	40.68	ppb	97
61) Toluene	8.37	91	232623	40.43	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	53280	41.27	ppb	97
63) 1,1,2-TCA	8.77	97	51015	39.54	ppb	95
64) 2-Hexanone	8.20	43	24520	38.52	ppb	96
67) 1,2-EDB	9.26	107	32704	40.30	ppb	89
68) Tetrachloroethene	8.92	166	68825	42.87	ppb	96
69) 1-Chlorohexane	9.77	91	58810	41.01	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	67043	40.89	ppb	97
71) m&p-Xylene	10.02	91	416560	84.87	ppb	100
72) o-Xylene	10.40	91	218808	41.71	ppb	95
73) Styrene	10.42	104	161433	43.38	ppb	96
75) 1,3-Dichloropropane	8.93	76	82807	39.17	ppb	98
76) Dibromochloromethane	9.16	129	68039	41.72	ppb	98
77) Chlorobenzene	9.77	112	101480	40.61	ppb	96
78) Ethylbenzene	9.90	91	254015	41.47	ppb	96
79) Bromoform	10.58	173	54091	40.23	ppb	95
81) Isopropylbenzene	10.78	105	258833	41.44	ppb	97
82) 1,1,2,2-Tetrachloroethane	11.06	83	64889	39.53	ppb	98
83) 1,2,3-Trichloropropane	11.09	110	22702	44.03	ppb	85
84) t-1,4-Dichloro-2-Butene	11.12	53	13317	42.74	ppb	94
85) Bromobenzene	11.06	77	65704	40.38	ppb	92
86) n-Propylbenzene	11.19	91	284550	41.00	ppb	99
87) 4-Ethyltoluene	11.31	105	257138	43.17	ppb	99
88) 2-Chlorotoluene	11.26	91	117349	40.78	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	226201	42.72	ppb	99
90) 4-Chlorotoluene	11.37	91	146368	44.69	ppb	96
91) Tert-Butylbenzene	11.69	119	196787	41.18	ppb	97
92) 1,2,4-Trimethylbenzene	11.74	105	227965	41.98	ppb	96
93) Sec-Butylbenzene	11.91	105	262624	42.40	ppb	100
94) p-Isopropyltoluene	12.06	119	238398	43.83	ppb	99
95) Benzyl Chloride	12.22	91	51064	40.20	ppb	96
96) 1,3-DCB	12.00	146	89560	37.85	ppb	97
97) 1,4-DCB	12.09	146	141760	39.56	ppb	98
98) n-Butylbenzene	12.47	91	183127	44.31	ppb	96
99) 1,2-DCB	12.46	146	89128	41.40	ppb	98
100) Hexachloroethane	12.72	117	27632	41.77	ppb	99
101) 1,2-Dibromo-3-chloropropan	13.22	157	9753	42.89	ppb	82
102) 1,2,4-Trichlorobenzene	14.06	182	55408	42.90	ppb	97
103) Hexachlorobutadiene	14.25	225	33920	42.89	ppb	96
104) Naphthalene	14.30	128	147855	45.27	ppb	99
105) 1,2,3-Trichlorobenzene	14.55	182	79646	44.56	ppb	85

Quantitation Report

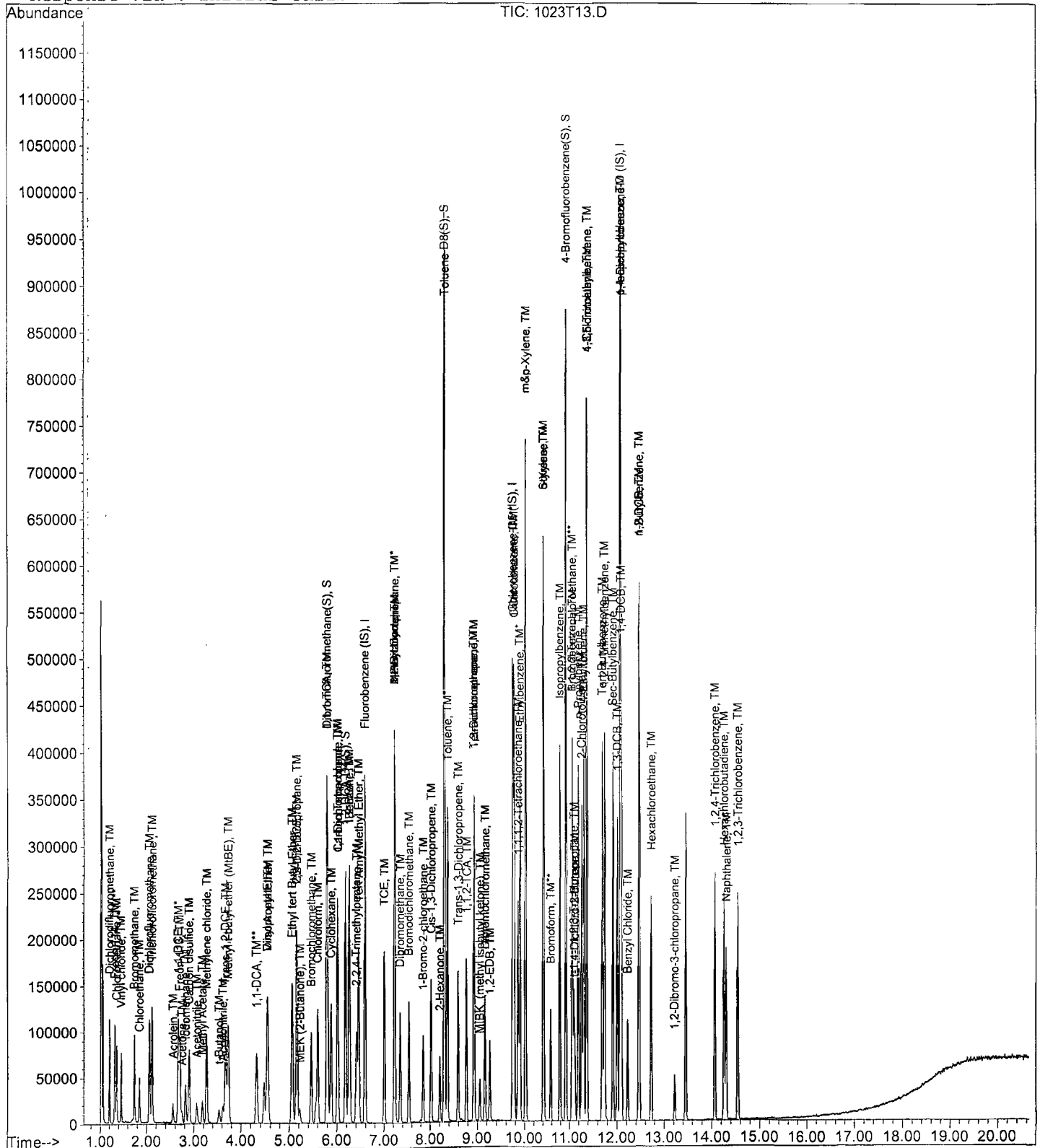
Data File : M:\THOR\DATA\T191023\1023T13.D
Acq On : 23 Oct 19 22:52
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T14.D
 Acq On : 23 Oct 19 23:20
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177408	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	165184	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	110936	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	323935	94.73	ppb	0.00
Spiked Amount	25.000		Recovery	=	378.912%	
45) 1,2-DCA-D4(S)	6.18	65	358548	93.64	ppb	0.00
Spiked Amount	25.000		Recovery	=	374.564%	
66) Toluene-D8(S)	8.30	98	1198840	97.19	ppb	0.00
Spiked Amount	25.000		Recovery	=	388.740%	
74) 4-Bromofluorobenzene(S)	10.92	174	507561	103.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	415.736%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	161280	98.07	ppb	94
4) Freon 114	1.32	85	65160	98.56	ppb	98
5) Chloromethane	1.36	50	118541	99.05	ppb	98
6) Vinyl chloride	1.46	62	115637	96.12	ppb	97
8) Bromomethane	1.74	96	70192	100.05	ppb	95
9) Chloroethane	1.84	64	76471	99.85	ppb	98
10) Dichlorofluoromethane	2.06	67	192115	87.94	ppb	95
11) Trichlorofluoromethane	2.11	101	216549	96.59	ppb	94
13) Acrolein	2.55	55	15173	223.45	ppb	84
14) Acetone	2.75	43	30975	70.91	ppb	99
15) Freon-113	2.69	101	84420	98.35	ppb	90
16) 1,1-DCE	2.66	61	138039	86.87	ppb	98
18) Acetonitrile	3.07	41	28302	198.25	ppb	98
19) t-Butanol	3.56	59	24074	204.45	ppb	90
20) Methyl Acetate	3.18	43	69485	98.24	ppb	100
21) Iodomethane	2.82	142	122737	101.05	ppb	98
22) Acrylonitrile	3.62	53	38523	94.80	ppb	89
23) Methylene chloride	3.27	49	124543	97.71	ppb	94
24) Carbon disulfide	2.89	76	244994	91.39	ppb	97
25) Methyl t-butyl ether (MtBE)	3.73	73	322426	98.48	ppb	96
26) Trans-1,2-DCE	3.67	61	137420	88.41	ppb	95
28) Diisopropyl Ether	4.55	45	119684	88.62	ppb	95
30) 1,1-DCA	4.32	63	78104	98.29	ppb	97
31) Vinyl Acetate	4.55	87	98071	98.30	ppb	99
32) Ethyl tert Butyl Ether	5.06	59	331724	91.26	ppb	92
33) MEK (2-Butanone)	5.22	43	45284	97.99	ppb	# 90
34) Cis-1,2-DCE	5.16	61	172748	91.79	ppb	96
35) 2,2-Dichloropropane	5.15	77	70056	96.54	ppb	94
38) Chloroform	5.60	83	110152	89.29	ppb	99
39) Bromochloromethane	5.46	130	44816	84.64	ppb	90
41) 1,1,1-TCA	5.80	97	93568	98.40	ppb	93
42) Cyclohexane	5.88	84	124790	87.89	ppb	86
43) 1,1-Dichloropropene	6.02	75	136901	88.30	ppb	93
44) 2,2,4-Trimethylpentane	6.41	57	104128	99.37	ppb	99
46) Carbon Tetrachloride	6.01	119	169517	97.97	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	334682	90.62	ppb	99
49) 1,2-DCA	6.27	62	94504	98.32	ppb	98
50) Benzene	6.25	78	440766	87.32	ppb	99
51) TCE	7.00	130	135158	86.30	ppb	96

(#) = qualifier out of range (m) = manual integration
 1023T14.D T1023W.M Wed Nov 20 13:59:27 2019

Data File : M:\THOR\DATA\T191023\1023T14.D
 Acq On : 23 Oct 19 23:20
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	164997	209.16	ppb	98
53) 1,2-Dichloropropane	7.23	63	115843	90.29	ppb	98
54) Bromodichloromethane	7.54	83	177908	90.56	ppb #	98
55) Methyl Cyclohexane	7.22	83	141548	90.49	ppb	93
56) Dibromomethane	7.35	174	106467	97.96	ppb	95
57) MIBK (methyl isobutyl ket	9.05	43	43040	100.75	ppb	90
58) 1-Bromo-2-chloroethane	7.85	63	152471	92.22	ppb	95
60) Cis-1,3-Dichloropropene	8.02	75	188241	91.63	ppb	96
61) Toluene	8.37	91	520145	90.90	ppb	99
62) Trans-1,3-Dichloropropene	8.59	75	121088	94.29	ppb	100
63) 1,1,2-TCA	8.77	97	114901	89.55	ppb	97
64) 2-Hexanone	8.20	43	64448	100.76	ppb	95
67) 1,2-EDB	9.26	107	74256	93.88	ppb	91
68) Tetrachloroethene	8.92	166	149403	95.48	ppb	94
69) 1-Chlorohexane	9.77	91	138433	99.58	ppb	99
70) 1,1,1,2-Tetrachloroethane	9.86	131	150233	94.00	ppb	98
71) m&p-Xylene	10.02	91	930569	194.51	ppb	99
72) o-Xylene	10.41	91	497624	97.32	ppb	96
73) Styrene	10.42	104	378992	104.49	ppb	97
75) 1,3-Dichloropropane	8.93	76	186261	90.40	ppb	99
76) Dibromochloromethane	9.16	129	157727	99.37	ppb	96
77) Chlorobenzene	9.77	112	229120	94.07	ppb	96
78) Ethylbenzene	9.90	91	572206	95.84	ppb	97
79) Bromoform	10.58	173	131325	99.93	ppb	93
81) Isopropylbenzene	10.78	105	584266	85.72	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	161391	90.08	ppb	98
83) 1,2,3-Trichloropropane	11.09	110	54492	98.15	ppb	87
84) t-1,4-Dichloro-2-Butene	11.12	53	33220	98.75	ppb	96
85) Bromobenzene	11.06	77	158592	89.31	ppb	95
86) n-Propylbenzene	11.19	91	662551	87.46	ppb	99
87) 4-Ethyltoluene	11.31	105	593199	91.26	ppb	100
88) 2-Chlorotoluene	11.26	91	280887	89.44	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	530500	91.80	ppb	99
90) 4-Chlorotoluene	11.37	91	329856	92.29	ppb	97
91) Tert-Butylbenzene	11.69	119	458246	87.86	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	537692	90.73	ppb	98
93) Sec-Butylbenzene	11.91	105	619321	91.62	ppb	100
94) p-Isopropyltoluene	12.06	119	566466	95.43	ppb	99
95) Benzyl Chloride	12.22	91	146752	105.86	ppb	98
96) 1,3-DCB	12.00	146	219392	84.95	ppb	98
97) 1,4-DCB	12.09	146	345218	88.27	ppb	98
98) n-Butylbenzene	12.46	91	442939	98.20	ppb	97
99) 1,2-DCB	12.46	146	223488	95.11	ppb	99
100) Hexachloroethane	12.72	117	72808	100.84	ppb	98
101) 1,2-Dibromo-3-chloropropan	13.22	157	24448	99.05	ppb #	81
102) 1,2,4-Trichlorobenzene	14.06	182	138944	98.56	ppb	95
103) Hexachlorobutadiene	14.25	225	85720	99.32	ppb	97
104) Naphthalene	14.30	128	367747	103.17	ppb	99
105) 1,2,3-Trichlorobenzene	14.54	182	191498	98.40	ppb	84

(#) = qualifier out of range (m) = manual integration
 1023T14.D T1023W.M Wed Nov 20 13:59:28 2019

Quantitation Report

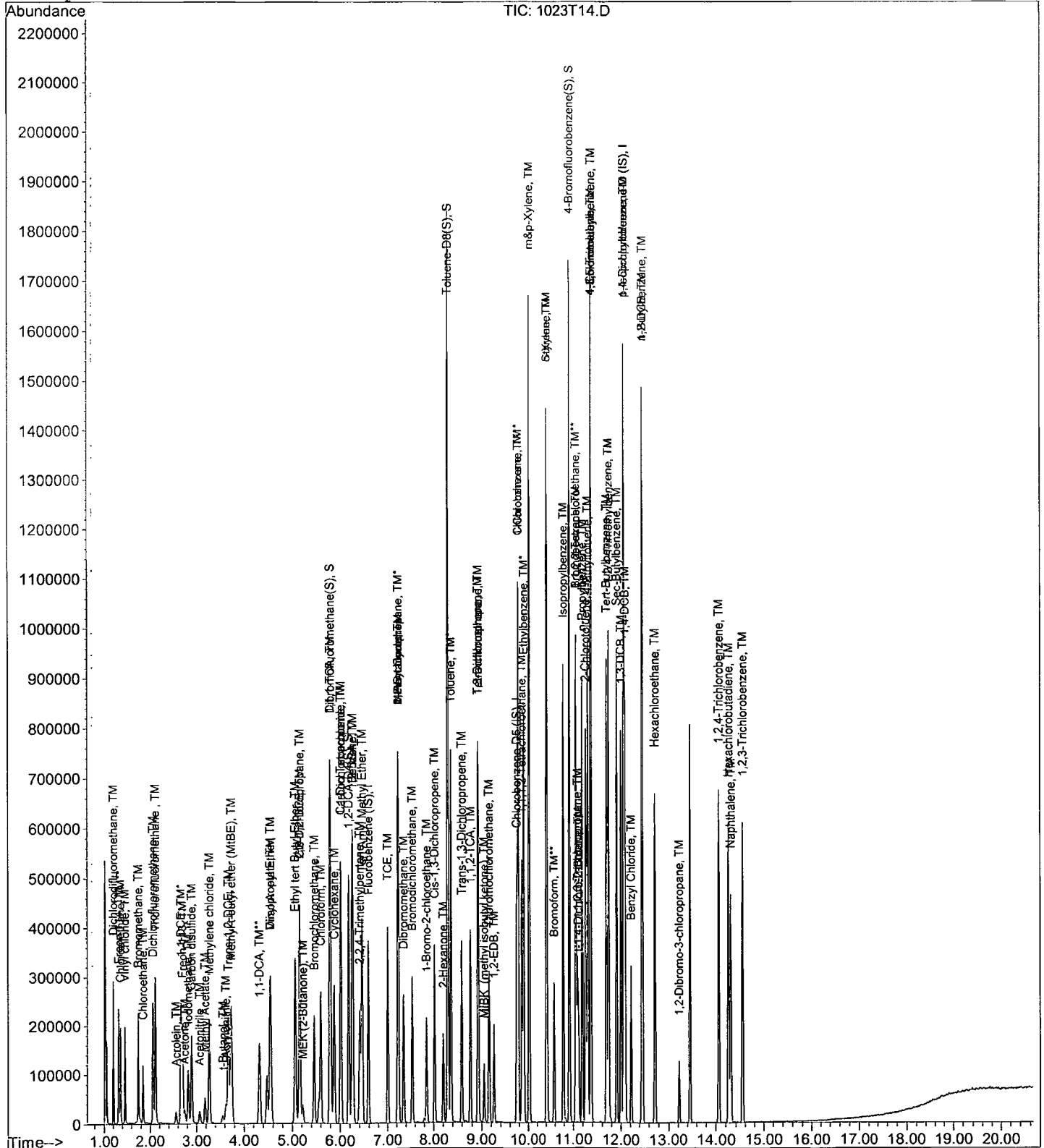
Data File : M:\THOR\DATA\T191023\1023T14.D
Acq On : 23 Oct 19 23:20
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:58 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No: _____
Date Analyzed: 10/24/2019
Instrument: Thor
Initial Cal. Date: 10/23/2019
Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TM	Dichlorodifluoromethane	0.2318	0.2193	5.4	TM	
2	TML	Freon 114	0.1167	0.1499	28	TML	49 nt
3	TM**L	Chloromethane	0.2206	0.1984	10	TM**L	7.9
4	TM*	Vinyl chloride	0.1695	0.1774	4.7	TM*	
5	TM	2-Chloro-1,1,1-trifluoroethane	0.0000	0.0033	0.00	TM	
6	TML	Bromomethane	0.1168	0.1128	3.5	TML	12
7	TML	Chloroethane	0.2026	0.1323	35	TML	9.5
8	TM	Dichlorofluoromethane	0.3078	0.3001	2.5	TM	
9	TM	Trichlorofluoromethane	0.3159	0.2995	5.2	TM	
10	TM	Acrolein	0.0096	0.0112	18	TM	
11	TML	Acetone	0.0616	0.0554	10.0	TML	10.0
12	TML	Freon-113	0.1219	0.1457	20	TML	12
13	TM*	1,1-DCE	0.2239	0.2001	11	TM*	
14	TM	2-Propanol	0.0000	0.0000	0.00	TM	
15	TML	Acetonitrile	0.0207	0.0162	22	TML	21 nt
16	TM	t-Butanol	0.0166	0.0133	20	TM	
17	TML	Methyl Acetate	0.1249	0.1273	1.9	TML	15
18	TML	Iodomethane	0.0951	0.0641	33	TML	30 nt
19	TM	Acrylonitrile	0.0573	0.0640	12	TM	
20	TML	Methylene chloride	0.2241	0.1875	16	TML	9.4
21	TML	Carbon disulfide	0.4208	0.4590	9.1	TML	20
22	TML	Methyl t-butyl ether (MtBE)	0.5335	0.5214	2.3	TML	4.3
23	TM	Trans-1,2-DCE	0.2190	0.2083	4.9	TM	
24	TM	Diisopropyl Ether	0.1903	0.1867	1.9	TM	
25	TM**L	1,1-DCA	0.1356	0.1114	18	TM**L	12
26	TML	Vinyl Acetate	0.1447	0.1570	8.5	TML	5.2
27	TM	Ethyl tert Butyl Ether	0.5122	0.5159	0.73	TM	
28	TML	MEK (2-Butanone)	0.0768	0.0670	13	TML	2.8
29	TM	Cis-1,2-DCE	0.2652	0.2502	5.7	TM	
30	TML	2,2-Dichloropropane	0.1205	0.1062	12	TML	0.49
31	TM	3-Methylpentane	0.0000	0.1118	0.00	TM	
32	TM*	Chloroform	0.1738	0.1625	6.5	TM*	
33	TM	Bromochloromethane	0.0746	0.0630	16	TM	
34	TML	1,1,1-TCA	0.1555	0.1321	15	TML	11
35	TM	Cyclohexane	0.2001	0.2050	2.5	TM	
36	TM	1,1-Dichloropropene	0.2185	0.1948	11	TM	
37	TML	2,2,4-Trimethylpentane	0.1692	0.1696	0.19	TML	12
38	TML	Carbon Tetrachloride	0.2432	0.2335	4.0	TML	11
39	TM	Tert Amyl Methyl Ether	0.5205	0.5251	0.89	TM	
40	TM	Methylcyclopentane	0.0000	0.0302	0.00	TM	
Average					9.8		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/24/2019

Matrix: 0

Instrument: Thor

Cal. Date: 10/23/2019

Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TML	1,2-DCA	0.1715	0.1289	25	TML	16
42	TM	Benzene	0.7114	0.6162	13	TM	
43	TM	TCE	0.2207	0.1896	14	TM	
44	TM	2-Pentanone	0.1112	0.0883	21	TM	nt
45	TM*	1,2-Dichloropropane	0.1808	0.1591	12	TM*	
46	TM	Bromodichloromethane	0.2768	0.2438	12	TM	
47	TM	Methyl Cyclohexane	0.2204	0.2355	6.8	TM	
48	TML	Dibromomethane	0.1389	0.1511	8.8	TML	5.7
49	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0468	25	TML	17
50	TM	1-Bromo-2-chloroethane	0.2330	0.2366	1.5	TM	
51	TM	2-Chloroethyl vinyl ether	0.0000	0.0003	0.00	TM	
52	TM	Cis-1,3-Dichloropropene	0.2895	0.2553	12	TM	
53	TM*	Toluene	0.8064	0.7207	11	TM*	
54	TM	Trans-1,3-Dichloropropene	0.1810	0.1646	9.1	TM	
55	TM	1,1,2-TCA	0.1808	0.1646	9.0	TM	
56	TML	2-Hexanone	0.0907	0.0766	16	TML	9.2
57	TM	1,2-EDB	0.1197	0.1061	11	TM	
58	TM	Tetrachloroethene	0.2368	0.2406	1.6	TM	
59	TML	1-Chlorohexane	0.2307	0.2346	1.7	TML	8.2
60	TM	1,1,1,2-Tetrachloroethane	0.2419	0.2138	12	TM	
61	TM	m&p-Xylene	0.7241	0.6656	8.1	TM	
62	TM	o-Xylene	0.7739	0.7175	7.3	TM	
63	TM	Styrene	0.5490	0.5082	7.4	TM	
64	TM	1,3-Dichloropropane	0.3118	0.2867	8.1	TM	
65	TML	Dibromochloromethane	0.2170	0.2142	1.3	TML	12
66	TM**	Chlorobenzene	0.3686	0.3346	9.2	TM**	
67	TM*	Ethylbenzene	0.9036	0.8620	4.6	TM*	
68	TM**L	Bromoform	0.1737	0.1747	0.52	TM**L	10
69	TM	Isopropylbenzene	1.536	1.414	7.9	TM	
70	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.3702	8.3	TM**	
71	TML	1,2,3-Trichloropropane	0.1253	0.1278	2.0	TML	7.6
72	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0898	24	TML	11
73	TM	Bromobenzene	0.4002	0.3609	9.8	TM	
74	TM	n-Propylbenzene	1.707	1.544	9.6	TM	
75	TM	4-Ethyltoluene	1.465	1.535	4.8	TM	
76	TM	2-Chlorotoluene	0.7078	0.6820	3.6	TM	
77	TM	1,3,5-Trimethylbenzene	1.302	1.250	4.0	TM	
78	TM	4-Chlorotoluene	0.8054	0.7723	4.1	TM	
79	TM	Tert-Butylbenzene	1.175	1.037	12	TM	
80	TM	1,2,4-Trimethylbenzene	1.336	1.253	6.2	TM	

Average

9.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/2019
Instrument: Thor
Cal. Date: 10/23/2019
Data File: 1023T16.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	Sec-Butylbenzene	1.523	1.403	7.9	TM	
82	TM	p-Isopropyltoluene	1.338	1.290	3.6	TM	
83	TM	Benzyl Chloride	0.3124	0.2611	16	TM	
84	TM	1,3-DCB	0.5820	0.5032	14	TM	
85	TM	1,4-DCB	0.8814	0.7951	9.8	TM	
86	TM	n-Butylbenzene	1.016	1.002	1.4	TM	
87	TM	1,2-DCB	0.5295	0.4923	7.0	TM	
88	TM	Hexachloroethane	0.1627	0.1495	8.1	TM	
89	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0560	10	TML	3.0
90	TM	1,2,4-Trichlorobenzene	0.3177	0.3716	17	TM	
91	TM	Hexachlorobutadiene	0.1945	0.1920	1.3	TM	
92	TM	Naphthalene	0.8033	1.276	59	TM	*
93	TML	1,2,3-Trichlorobenzene	0.4030	0.5563	38	TML	25*
94							
95							
96							
97							
98							
99							
100							
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115							
116							
117							
118							
119							
120							

Average

14.9

Data File : M:\THOR\DATA\T191023\1023T16.D
 Acq On : 24 Oct 19 00:17
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 9:01 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	189056	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	176576	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	104576	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	88311	24.23	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.936%	
45) 1,2-DCA-D4(S)	6.18	65	99051	24.28	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.100%	
66) Toluene-D8(S)	8.30	98	317868	24.11	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.424%	
74) 4-Bromofluorobenzene(S)	10.92	174	125676	24.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.300%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.20	85	16584	9.46	ppb	95
4) Freon 114	1.32	85	11332	14.95	ppb	94
5) Chloromethane	1.36	50	15001	10.79	ppb	100
6) Vinyl chloride	1.46	62	13419	10.47	ppb	94
8) Bromomethane	1.75	96	8529	11.16	ppb	91
9) Chloroethane	1.85	64	10004	10.95	ppb	94
10) Dichlorofluoromethane	2.06	67	22695	9.75	ppb	94
11) Trichlorofluoromethane	2.12	101	22652	9.48	ppb	93
13) Acrolein	2.55	55	10633	146.94	ppb	91
14) Acetone	2.74	43	4192	9.00	ppb	# 85
15) Freon-113	2.70	101	11017	11.22	ppb	94
16) 1,1-DCE	2.67	61	15133	8.94	ppb	94
18) Acetonitrile	3.06	41	15283	98.86	ppb	93
19) t-Butanol	3.53	59	12569	100.17	ppb	90
20) Methyl Acetate	3.18	43	9624	11.47	ppb	100
21) Iodomethane	2.82	142	4850	7.01	ppb	96
22) Acrylonitrile	3.62	53	4841	11.18	ppb	92
23) Methylene chloride	3.27	49	14178	9.06	ppb	95
24) Carbon disulfide	2.89	76	34712	11.97	ppb	96
25) Methyl t-butyl ether (MtBE)	3.73	73	39432	10.43	ppb	# 94
26) Trans-1,2-DCE	3.67	61	15749	9.51	ppb	99
28) Diisopropyl Ether	4.54	45	14117	9.81	ppb	93
30) 1,1-DCA	4.32	63	8425	8.79	ppb	96
31) Vinyl Acetate	4.55	87	11869	10.52	ppb	94
32) Ethyl tert Butyl Ether	5.06	59	39017	10.07	ppb	95
33) MEK (2-Butanone)	5.22	43	5065	10.28	ppb	96
34) Cis-1,2-DCE	5.16	61	18921	9.43	ppb	98
35) 2,2-Dichloropropane	5.16	77	8030	10.05	ppb	93
38) Chloroform	5.60	83	12288	9.35	ppb	98
39) Bromochloromethane	5.46	130	4761	8.44	ppb	92
41) 1,1,1-TCA	5.80	97	9986	8.94	ppb	93
42) Cyclohexane	5.88	84	15506	10.25	ppb	83
43) 1,1-Dichloropropene	6.02	75	14729	8.92	ppb	93
44) 2,2,4-Trimethylpentane	6.41	57	12822	11.20	ppb	96
46) Carbon Tetrachloride	6.01	119	17655	8.91	ppb	94
47) Tert Amyl Methyl Ether	6.45	73	39710	10.09	ppb	97
49) 1,2-DCA	6.26	62	9746	8.40	ppb	96
50) Benzene	6.25	78	46595	8.66	ppb	96
51) TCE	7.01	130	14335	8.59	ppb	94

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

Data File : M:\THOR\DATA\T191023\1023T16.D
 Acq On : 24 Oct 19 00:17
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 16
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant. Time: Oct 24 9:01 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	83503	99.33	ppb	97
53) 1,2-Dichloropropane	7.23	63	12032	8.80	ppb	99
54) Bromodichloromethane	7.54	83	18434	8.81	ppb	96
55) Methyl Cyclohexane	7.22	83	17807	10.68	ppb	99
56) Dibromomethane	7.35	174	11427	9.43	ppb	89
57) MIBK (methyl isobutyl ket	9.05	43	3541	8.26	ppb	91
58) 1-Bromo-2-chloroethane	7.85	63	17889	10.15	ppb	98
60) Cis-1,3-Dichloropropene	8.02	75	19310	8.82	ppb	95
61) Toluene	8.36	91	54500	8.94	ppb	98
62) Trans-1,3-Dichloropropene	8.59	75	12446	9.09	ppb	91
63) 1,1,2-TCA	8.77	97	12450	9.10	ppb	95
64) 2-Hexanone	8.21	43	5795	9.08	ppb	91
67) 1,2-EDB	9.26	107	7497	8.87	ppb	92
68) Tetrachloroethene	8.93	166	16992	10.16	ppb	93
69) 1-Chlorohexane	9.77	91	16573	10.82	ppb	96
70) 1,1,1,2-Tetrachloroethane	9.86	131	15099	8.84	ppb	99
71) m&p-Xylene	10.02	91	94029	18.39	ppb	98
72) o-Xylene	10.41	91	50679	9.27	ppb	97
73) Styrene	10.42	104	35896	9.26	ppb	98
75) 1,3-Dichloropropane	8.93	76	20248	9.19	ppb	99
76) Dibromochloromethane	9.15	129	15128	8.82	ppb	94
77) Chlorobenzene	9.77	112	23632	9.08	ppb	94
78) Ethylbenzene	9.90	91	60882	9.54	ppb	94
79) Bromoform	10.58	173	12336	8.96	ppb	94
81) Isopropylbenzene	10.78	105	59167	9.21	ppb	98
82) 1,1,2,2-Tetrachloroethane	11.05	83	15484	9.17	ppb	96
83) 1,2,3-Trichloropropane	11.09	110	5345	9.24	ppb	95
84) t-1,4-Dichloro-2-Butene	11.12	53	3757	11.13	ppb	96
85) Bromobenzene	11.06	77	15098	9.02	ppb	92
86) n-Propylbenzene	11.19	91	64588	9.04	ppb	100
87) 4-Ethyltoluene	11.31	105	64214	10.48	ppb	98
88) 2-Chlorotoluene	11.26	91	28529	9.64	ppb	93
89) 1,3,5-Trimethylbenzene	11.37	105	52305	9.60	ppb	99
90) 4-Chlorotoluene	11.37	91	32304	9.59	ppb	96
91) Tert-Butylbenzene	11.69	119	43377	8.82	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	52394	9.38	ppb	99
93) Sec-Butylbenzene	11.91	105	58680	9.21	ppb	96
94) p-Isopropyltoluene	12.06	119	53966	9.64	ppb	97
95) Benzyl Chloride	12.22	91	10920	8.36	ppb	98
96) 1,3-DCB	12.00	146	21048	8.65	ppb	97
97) 1,4-DCB	12.09	146	33259	9.02	ppb	98
98) n-Butylbenzene	12.47	91	41925	9.86	ppb	97
99) 1,2-DCB	12.45	146	20592	9.30	ppb	98
100) Hexachloroethane	12.72	117	6254	9.19	ppb	99
101) 1,2-Dibromo-3-chloropropan	13.22	157	2343	9.70	ppb	86
102) 1,2,4-Trichlorobenzene	14.06	182	15546	11.70	ppb	98
103) Hexachlorobutadiene	14.25	225	8031	9.87	ppb	99
104) Naphthalene	14.30	128	53370	15.88	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	23272	12.52	ppb #	81

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

Quantitation Report

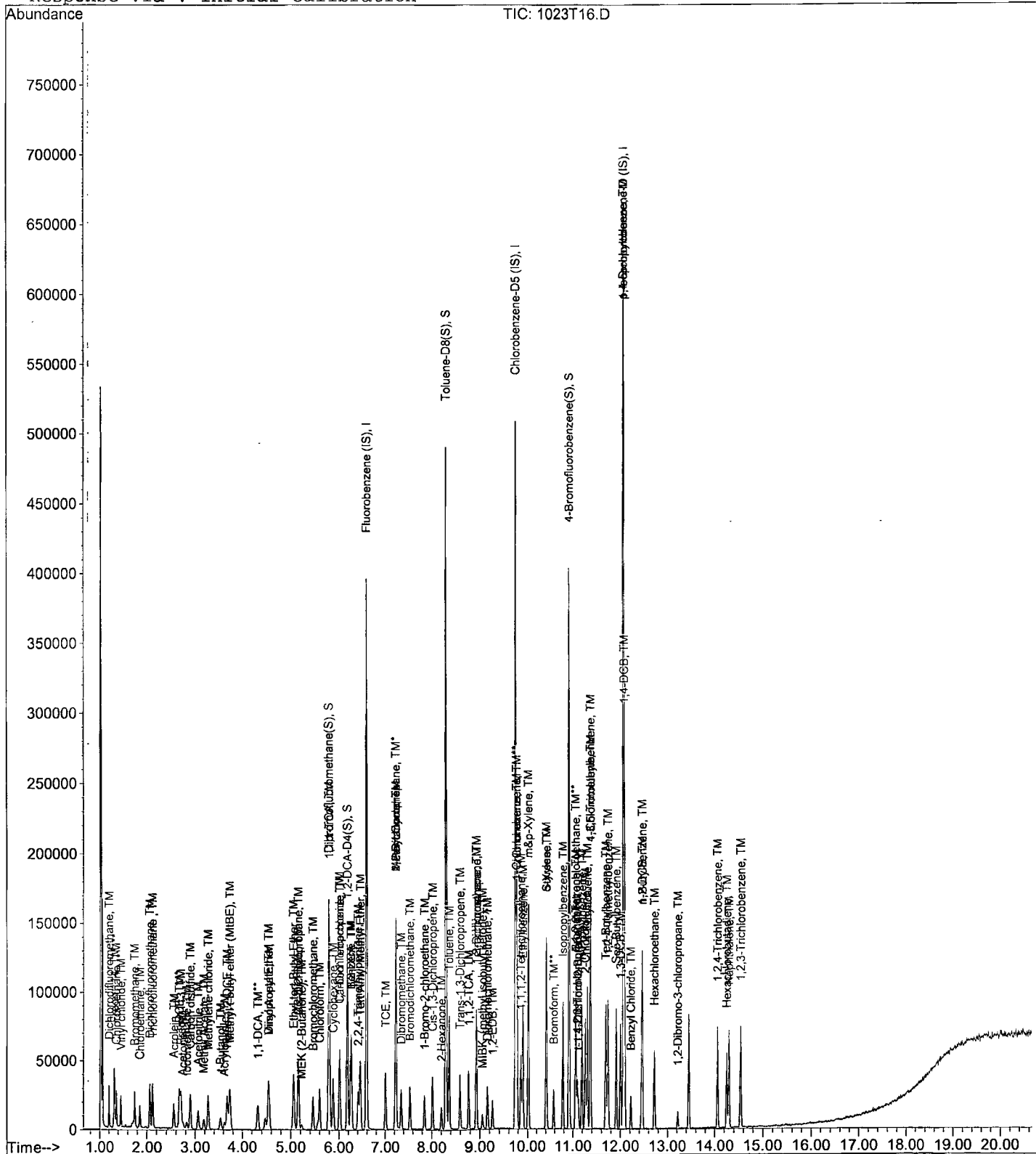
Data File : M:\THOR\DATA\T191023\1023T16.D
Acq On : 24 Oct 19 00:17
Sample : (SS)10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 16
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 9:01 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Initial Cal. Date: 10/23/2019
Data File: 1029T29.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.2318	0.2163	6.7	TM	
3	TML	Freon 114	0.1167	0.1611	38	TML	62 nt
4	TM**L	Chloromethane	0.2206	0.1918	13	TM**L	4.0
5	TM*	Vinyl chloride	0.1695	0.1657	2.3	TM*	
6	TM	2-Chloro-1,1,1-trifluoroethane	0.0000	0.0042	0.00	TM	
7	TML	Bromomethane	0.1168	0.1118	4.3	TML	11
8	TML	Chloroethane	0.2026	0.1278	37	TML	5.2
9	TM	Dichlorofluoromethane	0.3078	0.3271	6.3	TM	
10	TM	Trichlorofluoromethane	0.3159	0.3178	0.60	TM	
11	TM	Acrolein	0.0096	0.0065	32	TM	nt
12	TML	Acetone	0.0616	0.0587	4.7	TML	4.7
13	TML	Freon-113	0.1219	0.1482	22	TML	14
14	TM*	1,1-DCE	0.2239	0.2420	8.1	TM*	
15	TM	2-Propanol	0.0000	0.0001	0.00	TM	
16	TML	Acetonitrile	0.0207	0.0164	21	TML	20
17	TM	t-Butanol	0.0166	0.0123	26	TM	nt
18	TML	Methyl Acetate	0.1249	0.0949	24	TML	18
19	TML	Iodomethane	0.0951	0.0826	13	TML	19
20	TM	Acrylonitrile	0.0573	0.0459	20	TM	
21	TML	Methylene chloride	0.2241	0.2147	4.2	TML	6.1
22	TML	Carbon disulfide	0.4208	0.4706	12	TML	23 *
23	TML	Methyl t-butyl ether (MtBE)	0.5335	0.4616	13	TML	8.8
24	TM	Trans-1,2-DCE	0.2190	0.2230	1.8	TM	
25	TM	Diisopropyl Ether	0.1903	0.1783	6.3	TM	
26	TM**L	1,1-DCA	0.1356	0.1232	9.2	TM**L	1.5
27	TML	Vinyl Acetate	0.1447	0.1449	0.14	TML	3.5
28	TM	Ethyl tert Butyl Ether	0.5122	0.4678	8.7	TM	
29	TML	MEK (2-Butanone)	0.0768	0.0527	31	TML	19
30	TM	Cis-1,2-DCE	0.2652	0.2749	3.7	TM	
31	TML	2,2-Dichloropropane	0.1205	0.0929	23	TML	13
32	TM	3-Methylpentane	0.0000	0.0969	0.00	TM	
33	TM*	Chloroform	0.1738	0.1815	4.4	TM*	
34	TM	Bromochloromethane	0.0746	0.0768	2.9	TM	
35	S	Dibromofluoromethane(S)	0.4819	0.4849	0.62	S	
36	TML	1,1,1-TCA	0.1555	0.1615	3.9	TML	12
37	TM	Cyclohexane	0.2001	0.1926	3.8	TM	
38	TM	1,1-Dichloropropene	0.2185	0.2102	3.8	TM	
39	TML	2,2,4-Trimethylpentane	0.1692	0.1405	17	TML	7.8
40	S	1,2-DCA-D4(S)	0.5396	0.5261	2.5	S	

Average

11.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Cal. Date: 10/23/2019
Data File: 1029T29.D

		Compound	MEAN	CCRF	%D	%Drift	
41	TML	Carbon Tetrachloride	0.2432	0.2750	13	TML	6.3
42	TM	Tert Amyl Methyl Ether	0.5205	0.4717	9.4	TM	
43	TM	Methylcyclopentane	0.0000	0.0292	0.00	TM	
44	TML	1,2-DCA	0.1715	0.1490	13	TML	1.00
45	TM	Benzene	0.7114	0.6840	3.8	TM	
46	TM	TCE	0.2207	0.2255	2.2	TM	
47	TM	2-Pentanone	0.1112	0.0862	22	TM	nt
48	TM*	1,2-Dichloropropane	0.1808	0.1764	2.4	TM*	
49	TM	Bromodichloromethane	0.2768	0.2760	0.30	TM	
50	TM	Methyl Cyclohexane	0.2204	0.2192	0.55	TM	
51	TML	Dibromomethane	0.1389	0.1714	23	TML	7.6
52	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0374	40	TML	33*
53	TM	1-Bromo-2-chloroethane	0.2330	0.2565	10	TM	
54	TM	2-Chloroethyl vinyl ether	0.0000	0.0004	0.00	TM	
55	TM	Cis-1,3-Dichloropropene	0.2895	0.2641	8.8	TM	
56	TM*	Toluene	0.8064	0.7766	3.7	TM*	
57	TM	Trans-1,3-Dichloropropene	0.1810	0.1690	6.6	TM	
58	TM	1,1,2-TCA	0.1808	0.1657	8.4	TM	
59	TML	2-Hexanone	0.0907	0.0685	25	TML	18
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	1.867	1.862	0.28	S	
62	TM	1,2-EDB	0.1197	0.1117	6.7	TM	
63	TM	Tetrachloroethene	0.2368	0.2738	16	TM	
64	TML	1-Chlorohexane	0.2307	0.2036	12	TML	6.6
65	TM	1,1,1,2-Tetrachloroethane	0.2419	0.2444	1.0	TM	
66	TM	m&p-Xylene	0.7241	0.7102	1.9	TM	
67	TM	o-Xylene	0.7739	0.7401	4.4	TM	
68	TM	Styrene	0.5490	0.5289	3.7	TM	
69	S	4-Bromofluorobenzene(S)	0.7391	0.7451	0.81	S	
70	TM	1,3-Dichloropropane	0.3118	0.2952	5.3	TM	
71	TML	Dibromochloromethane	0.2170	0.2348	8.2	TML	3.2
72	TM**	Chlorobenzene	0.3686	0.3603	2.3	TM**	
73	TM*	Ethylbenzene	0.9036	0.8905	1.4	TM*	
74	TM**L	Bromoform	0.1737	0.1866	7.4	TM**L	4.5
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	1.536	1.496	2.6	TM	
77	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.3741	7.3	TM**	
78	TML	1,2,3-Trichloropropane	0.1253	0.1332	6.3	TML	3.3
79	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0638	12	TML	23 nt
80	TM	Bromobenzene	0.4002	0.3908	2.3	TM	
Average					7.7		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Cal. Date: 10/23/2019
Data File: 1029T29.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	n-Propylbenzene	1.707	1.617	5.3	TM	
82	TM	4-Ethyltoluene	1.465	1.469	0.28	TM	
83	TM	2-Chlorotoluene	0.7078	0.8204	16	TM	
84	TM	1,3,5-Trimethylbenzene	1.302	1.260	3.3	TM	
85	TM	4-Chlorotoluene	0.8054	0.8204	1.9	TM	
86	TM	Tert-Butylbenzene	1.175	1.168	0.65	TM	
87	TM	1,2,4-Trimethylbenzene	1.336	1.284	3.9	TM	
88	TM	Sec-Butylbenzene	1.523	1.446	5.1	TM	
89	TM	p-Isopropyltoluene	1.338	1.290	3.6	TM	
90	TM	Benzyl Chloride	0.3124	0.1983	37	TM	nt
91	TM	1,3-DCB	0.5820	0.5572	4.3	TM	
92	TM	1,4-DCB	0.8814	0.8276	6.1	TM	
93	TM	n-Butylbenzene	1.016	0.9551	6.0	TM	
94	TM	1,2-DCB	0.5295	0.5368	1.4	TM	
95	TM	Hexachloroethane	0.1627	0.1607	1.2	TM	
96	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0547	12	TML	5.3
97	TM	1,2,4-Trichlorobenzene	0.3177	0.2909	8.4	TM	
98	TM	Hexachlorobutadiene	0.1945	0.2113	8.6	TM	
99	TM	Naphthalene	0.8033	0.6759	16	TM	
100	TML	1,2,3-Trichlorobenzene	0.4030	0.3988	1.0	TML	11
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

7.1

Data File : M:\THOR\DATA\T191028\1029T29.D
 Acq On : 30 Oct 19 1:00
 Sample : 191029B CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 29
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	139072	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	127016	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	74304	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.78	111	67435	25.16	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.624%	
45) 1,2-DCA-D4(S)	6.17	65	73161	24.37	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.496%	
66) Toluene-D8(S)	8.30	98	236473	24.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.720%	
74) 4-Bromofluorobenzene(S)	10.92	174	94634	25.20	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.808%	
Target Compounds						
3) Dichlorodifluoromethane	1.20	85	12030	9.33	ppb	Qvalue 100
4) Freon 114	1.32	85	8964	16.18	ppb	95
5) Chloromethane	1.36	50	10672	10.40	ppb	99
6) Vinyl chloride	1.46	62	9218	9.77	ppb	96
8) Bromomethane	1.75	96	6218	11.06	ppb	88
9) Chloroethane	1.86	64	7110	10.52	ppb	92
10) Dichlorofluoromethane	2.06	67	18198	10.63	ppb	98
11) Trichlorofluoromethane	2.12	101	17680	10.06	ppb	96
13) Acrolein	2.55	55	4522	84.95	ppb	85
14) Acetone	2.74	43	3263	9.53	ppb	98
15) Freon-113	2.70	101	8246	11.43	ppb	90
16) 1,1-DCE	2.67	61	13460	10.81	ppb	94
18) Acetonitrile	3.05	41	11426	100.53	ppb #	84
19) t-Butanol	3.52	59	8583	92.98	ppb #	90
20) Methyl Acetate	3.17	43	5279	8.17	ppb	93
21) Iodomethane	2.82	142	4596	8.05	ppb	99
22) Acrylonitrile	3.61	53	2555	8.02	ppb	95
23) Methylene chloride	3.27	49	11945	10.61	ppb	92
24) Carbon disulfide	2.89	76	26177	12.28	ppb	97
25) Methyl t-butyl ether (MtBE)	3.72	73	25680	9.12	ppb #	94
26) Trans-1,2-DCE	3.67	61	12403	10.18	ppb	93
28) Diisopropyl Ether	4.54	45	9921	9.37	ppb	96
30) 1,1-DCA	4.32	63	6851	9.85	ppb	99
31) Vinyl Acetate	4.54	87	8060	9.65	ppb	99
32) Ethyl tert Butyl Ether	5.05	59	26023	9.13	ppb #	89
33) MEK (2-Butanone)	5.21	43	2933	8.10	ppb #	84
34) Cis-1,2-DCE	5.15	61	15292	10.37	ppb	97
35) 2,2-Dichloropropane	5.15	77	5169	8.75	ppb #	93
38) Chloroform	5.59	83	10099	10.44	ppb	97
39) Bromochloromethane	5.46	130	4270	10.29	ppb	89
41) 1,1,1-TCA	5.80	97	8982	11.16	ppb	89
42) Cyclohexane	5.87	84	10712	9.62	ppb	82
43) 1,1-Dichloropropene	6.01	75	11692	9.62	ppb	97
44) 2,2,4-Trimethylpentane	6.41	57	7814	9.22	ppb	95
46) Carbon Tetrachloride	6.01	119	15299	10.63	ppb	89
47) Tert Amyl Methyl Ether	6.45	73	26240	9.06	ppb	95
49) 1,2-DCA	6.26	62	8289	9.90	ppb	96
50) Benzene	6.25	78	38049	9.62	ppb	96
51) TCE	7.00	130	12544	10.22	ppb	98

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

Data File : M:\THOR\DATA\T191028\1029T29.D
 Acq On : 30 Oct 19 1:00
 Sample : 191029B CCV/LCS 10ug/L
 Misc : IS&S 9/23/19

Vial: 29
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.23	43	59970	96.98	ppb	99
53) 1,2-Dichloropropane	7.23	63	9812	9.76	ppb	99
54) Bromodichloromethane	7.53	83	15354	9.97	ppb	92
55) Methyl Cyclohexane	7.22	83	12195	9.94	ppb	98
56) Dibromomethane	7.34	174	9535	10.76	ppb	97
57) MIBK (methyl isobutyl ket	9.05	43	2080	6.70	ppb	# 82
58) 1-Bromo-2-chloroethane	7.84	63	14267	11.01	ppb	91
60) Cis-1,3-Dichloropropene	8.02	75	14693	9.12	ppb	95
61) Toluene	8.36	91	43204	9.63	ppb	97
62) Trans-1,3-Dichloropropene	8.59	75	9404	9.34	ppb	92
63) 1,1,2-TCA	8.77	97	9217	9.16	ppb	88
64) 2-Hexanone	8.20	43	3808	8.18	ppb	97
67) 1,2-EDB	9.26	107	5674	9.33	ppb	90
68) Tetrachloroethene	8.92	166	13913	11.56	ppb	96
69) 1-Chlorohexane	9.77	91	10346	9.34	ppb	93
70) 1,1,1,2-Tetrachloroethane	9.85	131	12415	10.10	ppb	89
71) m&p-Xylene	10.01	91	72163	19.62	ppb	98
72) o-Xylene	10.41	91	37600	9.56	ppb	99
73) Styrene	10.41	104	26873	9.63	ppb	99
75) 1,3-Dichloropropane	8.93	76	15000	9.47	ppb	99
76) Dibromochloromethane	9.15	129	11928	9.68	ppb	# 95
77) Chlorobenzene	9.77	112	18304	9.77	ppb	94
78) Ethylbenzene	9.90	91	45245	9.86	ppb	93
79) Bromoform	10.57	173	9479	9.55	ppb	90
81) Isopropylbenzene	10.78	105	44450	9.74	ppb	97
82) 1,1,2,2-Tetrachloroethane	11.05	83	11119	9.27	ppb	97
83) 1,2,3-Trichloropropane	11.09	110	3959	9.67	ppb	93
84) t-1,4-Dichloro-2-Butene	11.11	53	1895	7.66	ppb	# 77
85) Bromobenzene	11.05	77	11616	9.77	ppb	87
86) n-Propylbenzene	11.19	91	48050	9.47	ppb	96
87) 4-Ethyltoluene	11.31	105	43663	10.03	ppb	96
88) 2-Chlorotoluene	11.37	91	24384	11.59	ppb	94
89) 1,3,5-Trimethylbenzene	11.37	105	37438	9.67	ppb	100
90) 4-Chlorotoluene	11.37	91	24384	10.19	ppb	93
91) Tert-Butylbenzene	11.69	119	34706	9.94	ppb	92
92) 1,2,4-Trimethylbenzene	11.74	105	38148	9.61	ppb	95
93) Sec-Butylbenzene	11.91	105	42987	9.49	ppb	98
94) p-Isopropyltoluene	12.06	119	38343	9.64	ppb	97
95) Benzyl Chloride	12.22	91	5893	6.35	ppb	96
96) 1,3-DCB	12.00	146	16560	9.57	ppb	96
97) 1,4-DCB	12.09	146	24597	9.39	ppb	97
98) n-Butylbenzene	12.47	91	28387	9.40	ppb	96
99) 1,2-DCB	12.45	146	15956	10.14	ppb	95
100) Hexachloroethane	12.72	117	4777	9.88	ppb	90
101) 1,2-Dibromo-3-chloropropan	13.22	157	1627	9.47	ppb	88
102) 1,2,4-Trichlorobenzene	14.06	182	8646	9.16	ppb	97
103) Hexachlorobutadiene	14.25	225	6279	10.86	ppb	# 62
104) Naphthalene	14.30	128	20088	8.41	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	11854	8.92	ppb	84

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

1029T29.D T1023W.M Wed Nov 20 14:00:59 2019

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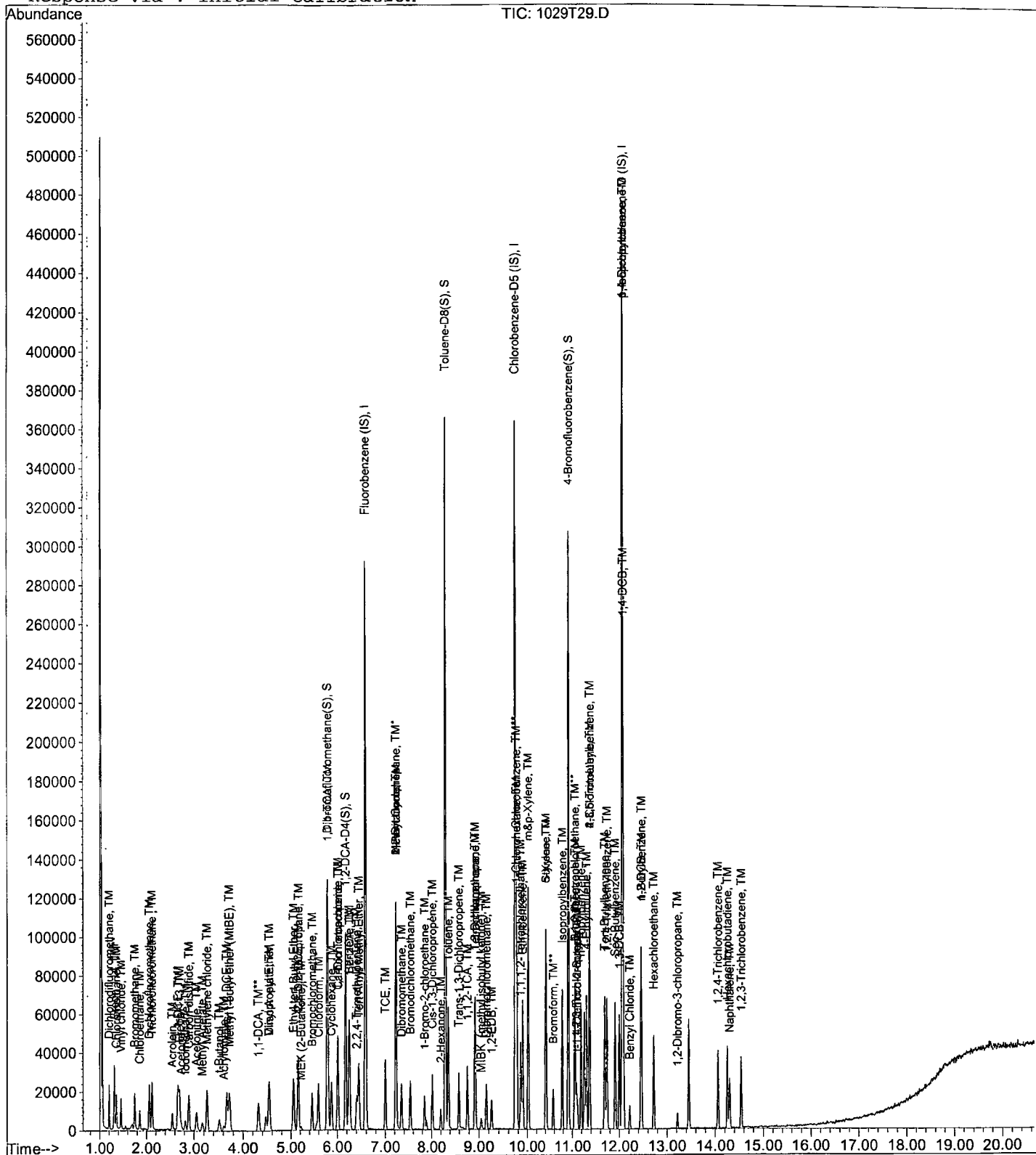
Data File : M:\THOR\DATA\T191028\1029T29.D
Acq On : 30 Oct 19 1:00
Sample : 191029B CCV/LCS 10ug/L
Misc : IS&S 9/23/19

Vial: 29
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/2019

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/23/2019

Data File: 1029T47.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TM Dichlorodifluoromethane	0.2318	0.2079	10	TM
3	TML Freon 114	0.1167	0.1294	11	TML 27
4	TM**L Chloromethane	0.2206	0.1858	16	TM**L 0.37
5	TM* Vinyl chloride	0.1695	0.1609	5.1	TM*
6	TM 2-Chloro-1,1,1-trifluoroethane	0.0000	0.0002	0.00	TM
7	TML Bromomethane	0.1168	0.0790	32	TML 23
8	TML Chloroethane	0.2026	0.1216	40	TML 0.57
9	TM Dichlorofluoromethane	0.3078	0.3181	3.3	TM
10	TM Trichlorofluoromethane	0.3159	0.3282	3.9	TM
11	TM Acrolein	0.0096	0.0065	32	TM
12	TML Acetone	0.0616	0.0614	0.28	TML 0.28
13	TML Freon-113	0.1219	0.1459	20	TML 12
14	TM* 1,1-DCE	0.2239	0.2413	7.7	TM*
15	TML Acetonitrile	0.0207	0.0169	19	TML 17
16	TM t-Butanol	0.0166	0.0120	28	TM
17	TML Methyl Acetate	0.1249	0.0988	21	TML 14
18	TML Iodomethane	0.0951	0.0386	59	TML 44
19	TM Acrylonitrile	0.0573	0.0498	13	TM
20	TML Methylene chloride	0.2241	0.2018	9.9	TML 1.2
21	TML Carbon disulfide	0.4208	0.4451	5.8	TML 16
22	TML Methyl t-butyl ether (MtBE)	0.5335	0.4712	12	TML 6.7
23	TM Trans-1,2-DCE	0.2190	0.2266	3.4	TM
24	TM Diisopropyl Ether	0.1903	0.1545	19	TM
25	TM**L 1,1-DCA	0.1356	0.1227	9.5	TM**L 1.9
26	TML Vinyl Acetate	0.1447	0.1394	3.6	TML 7.4
27	TM Ethyl tert Butyl Ether	0.5122	0.4430	14	TM
28	TML MEK (2-Butanone)	0.0768	0.0567	26	TML 13
29	TM Cis-1,2-DCE	0.2652	0.2702	1.9	TM
30	TML 2,2-Dichloropropane	0.1205	0.0916	24	TML 14
31	TM 3-Methylpentane	0.0000	0.0855	0.00	TM
32	TM* Chloroform	0.1738	0.1676	3.6	TM*
33	TM Bromochloromethane	0.0746	0.0782	4.9	TM
34	S Dibromofluoromethane(S)	0.4819	0.4692	2.6	S
35	TML 1,1,1-TCA	0.1555	0.1492	4.0	TML 2.4
36	TM Cyclohexane	0.2001	0.1817	9.2	TM
37	TM 1,1-Dichloropropene	0.2185	0.2011	8.0	TM
38	TML 2,2,4-Trimethylpentane	0.1692	0.1289	24	TML 16
39	S 1,2-DCA-D4(S)	0.5396	0.5066	6.1	S
40	TML Carbon Tetrachloride	0.2432	0.2664	9.5	TML 2.7

Average

13.4

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Cal. Date: 10/23/2019
Data File: 1029T47.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.5205	0.4454	14	TM
42	TM	Methylcyclopentane	0.0000	0.0218	0.00	TM
43	TML	1,2-DCA	0.1715	0.1415	18	TML 6.6
44	TM	Benzene	0.7114	0.6589	7.4	TM
45	TM	TCE	0.2207	0.2068	6.3	TM
46	TM	2-Pentanone	0.1112	0.0860	23	TM
47	TM*	1,2-Dichloropropane	0.1808	0.1604	11	TM*
48	TM	Bromodichloromethane	0.2768	0.2493	10.0	TM
49	TM	Methyl Cyclohexane	0.2204	0.2188	0.72	TM
50	TML	Dibromomethane	0.1389	0.1652	19	TML 3.6
51	TML	MIBK (methyl isobutyl ketone)	0.0628	0.0428	32	TML 24
52	TM	1-Bromo-2-chloroethane	0.2330	0.2421	3.9	TM
53	TM	2-Chloroethyl vinyl ether	0.0000	0.0006	0.00	TM
54	TM	Cis-1,3-Dichloropropene	0.2895	0.2406	17	TM
55	TM*	Toluene	0.8064	0.7599	5.8	TM*
56	TM	Trans-1,3-Dichloropropene	0.1810	0.1492	18	TM
57	TM	1,1,2-TCA	0.1808	0.1674	7.4	TM
58	TML	2-Hexanone	0.0907	0.0634	30	TML 24
59	I	Chlorobenzene-D5 (IS)	ISTD			I
60	S	Toluene-D8(S)	1.867	1.778	4.8	S
61	TM	1,2-EDB	0.1197	0.1181	1.4	TM
62	TM	Tetrachloroethene	0.2368	0.2572	8.6	TM
63	TML	1-Chlorohexane	0.2307	0.1985	14	TML 9.0
64	TM	1,1,1,2-Tetrachloroethane	0.2419	0.2328	3.7	TM
65	TM	m&p-Xylene	0.7241	0.6792	6.2	TM
66	TM	o-Xylene	0.7739	0.7020	9.3	TM
67	TM	Styrene	0.5490	0.4996	9.0	TM
68	S	4-Bromofluorobenzene(S)	0.7391	0.7146	3.3	S
69	TM	1,3-Dichloropropane	0.3118	0.2906	6.8	TM
70	TML	Dibromochloromethane	0.2170	0.2431	12	TML 0.26
71	TM**	Chlorobenzene	0.3686	0.3542	3.9	TM**
72	TM*	Ethylbenzene	0.9036	0.8339	7.7	TM*
73	TM**L	Bromoform	0.1737	0.1928	11	TM**L 1.3
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
75	TM	Isopropylbenzene	1.536	1.381	10	TM
76	TM**	1,1,2,2-Tetrachloroethane	0.4037	0.3270	19	TM**
77	TML	1,2,3-Trichloropropane	0.1253	0.1297	3.5	TML 6.1
78	TML	t-1,4-Dichloro-2-Butene	0.0727	0.0572	21	TML 32
79	TM	Bromobenzene	0.4002	0.3678	8.1	TM
80	TM	n-Propylbenzene	1.707	1.492	13	TM

Average

10.5

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Cal. Date: 10/23/2019
Data File: 1029T47.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	4-Ethyltoluene	1.465	1.349	7.9	TM	
82	TM	2-Chlorotoluene	0.7078	0.6681	5.6	TM	
83	TM	1,3,5-Trimethylbenzene	1.302	1.217	6.6	TM	
84	TM	4-Chlorotoluene	0.8054	0.7565	6.1	TM	
85	TM	Tert-Butylbenzene	1.175	1.057	10	TM	
86	TM	1,2,4-Trimethylbenzene	1.336	1.141	15	TM	
87	TM	Sec-Butylbenzene	1.523	1.330	13	TM	
88	TM	p-Isopropyltoluene	1.338	1.180	12	TM	
89	TM	Benzyl Chloride	0.3124	0.1610	48	TM	
90	TM	1,3-DCB	0.5820	0.5039	13	TM	
91	TM	1,4-DCB	0.8814	0.7781	12	TM	
92	TM	n-Butylbenzene	1.016	0.8091	20	TM	
93	TM	1,2-DCB	0.5295	0.4855	8.3	TM	
94	TM	Hexachloroethane	0.1627	0.1492	8.3	TM	
95	TML	1,2-Dibromo-3-chloropropane	0.0623	0.0455	27	TML	22
96	TM	1,2,4-Trichlorobenzene	0.3177	0.2333	27	TM	
97	TM	Hexachlorobutadiene	0.1945	0.1906	2.0	TM	
98	TM	Naphthalene	0.8033	0.5003	38	TM	
99	TML	1,2,3-Trichlorobenzene	0.4030	0.3444	15	TML	23
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

15.5

Data File : M:\THOR\DATA\T191028\1029T47.D
 Acq On : 30 Oct 19 9:29
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S 9/23/19

Vial: 47
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 9:36 2019

Quant Results File: T1023W.RES

Quant. Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	144576	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	130200	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	78360	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.78	111	67834	24.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	97.364%	
45) 1,2-DCA-D4(S)	6.17	65	73237	23.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.884%	
66) Toluene-D8(S)	8.30	98	231495	23.81	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.236%	
74) 4-Bromofluorobenzene(S)	10.92	174	93046	24.17	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.692%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.20	85	12022	8.97	ppb	98
4) Freon 114	1.32	85	7483	12.72	ppb	97
5) Chloromethane	1.36	50	10742	10.04	ppb	97
6) Vinyl chloride	1.46	62	9307	9.49	ppb	97
8) Bromomethane	1.75	96	4570	7.74	ppb	94
9) Chloroethane	1.86	64	7034	9.94	ppb	98
10) Dichlorofluoromethane	2.06	67	18396	10.33	ppb	90
11) Trichlorofluoromethane	2.12	101	18979	10.39	ppb	87
13) Acrolein	2.55	55	4674	84.46	ppb	96
14) Acetone	2.73	43	3550	9.97	ppb	# 87
15) Freon-113	2.69	101	8440	11.24	ppb	# 86
16) 1,1-DCE	2.67	61	13952	10.77	ppb	97
18) Acetonitrile	3.05	41	12183	103.19	ppb	98
19) t-Butanol	3.52	59	8696	90.62	ppb	# 87
20) Methyl Acetate	3.17	43	5714	8.57	ppb	99
21) Iodomethane	2.81	142	2231	5.56	ppb	95
22) Acrylonitrile	3.61	53	2881	8.70	ppb	84
23) Methylene chloride	3.27	49	11672	9.88	ppb	95
24) Carbon disulfide	2.89	76	25740	11.60	ppb	95
25) Methyl t-butyl ether (MtBE)	3.72	73	27249	9.33	ppb	97
26) Trans-1,2-DCE	3.67	61	13102	10.34	ppb	97
28) Diisopropyl Ether	4.54	45	8934	8.12	ppb	94
30) 1,1-DCA	4.32	63	7097	9.81	ppb	93
31) Vinyl Acetate	4.54	87	8063	9.26	ppb	94
32) Ethyl tert Butyl Ether	5.05	59	25619	8.65	ppb	92
33) MEK (2-Butanone)	5.22	43	3279	8.71	ppb	# 85
34) Cis-1,2-DCE	5.16	61	15625	10.19	ppb	93
35) 2,2-Dichloropropane	5.15	77	5300	8.62	ppb	94
38) Chloroform	5.59	83	9691	9.64	ppb	97
39) Bromochloromethane	5.45	130	4525	10.49	ppb	91
41) 1,1,1-TCA	5.80	97	8631	10.24	ppb	97
42) Cyclohexane	5.87	84	10510	9.08	ppb	88
43) 1,1-Dichloropropene	6.02	75	11628	9.20	ppb	97
44) 2,2,4-Trimethylpentane	6.41	57	7452	8.43	ppb	98
46) Carbon Tetrachloride	6.01	119	15405	10.27	ppb	95
47) Tert Amyl Methyl Ether	6.45	73	25760	8.56	ppb	95
49) 1,2-DCA	6.26	62	8183	9.34	ppb	100
50) Benzene	6.25	78	38103	9.26	ppb	97
51) TCE	7.00	130	11961	9.37	ppb	95

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

Data File : M:\THOR\DATA\T191028\1029T47.D
 Acq On : 30 Oct 19 9:29
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S 9/23/19

Vial: 47
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 9:36 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.22	43	62167	96.70	ppb	99
53) 1,2-Dichloropropane	7.23	63	9276	8.87	ppb	95
54) Bromodichloromethane	7.54	83	14416	9.00	ppb	97
55) Methyl Cyclohexane	7.22	83	12656	9.93	ppb	90
56) Dibromomethane	7.35	174	9556	10.36	ppb	96
57) MIBK (methyl isobutyl ket	9.05	43	2475	7.59	ppb	91
58) 1-Bromo-2-chloroethane	7.85	63	13998	10.39	ppb	99
60) Cis-1,3-Dichloropropene	8.02	75	13916	8.31	ppb	97
61) Toluene	8.36	91	43946	9.42	ppb	97
62) Trans-1,3-Dichloropropene	8.59	75	8628	8.24	ppb	94
63) 1,1,2-TCA	8.77	97	9679	9.26	ppb	98
64) 2-Hexanone	8.20	43	3664	7.62	ppb	94
67) 1,2-EDB	9.26	107	6149	9.86	ppb	# 79
68) Tetrachloroethene	8.92	166	13396	10.86	ppb	96
69) 1-Chlorohexane	9.77	91	10338	9.10	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.86	131	12126	9.63	ppb	88
71) m&p-Xylene	10.02	91	70741	18.76	ppb	96
72) o-Xylene	10.40	91	36560	9.07	ppb	99
73) Styrene	10.42	104	26020	9.10	ppb	94
75) 1,3-Dichloropropane	8.93	76	15133	9.32	ppb	95
76) Dibromochloromethane	9.15	129	12659	10.03	ppb	95
77) Chlorobenzene	9.77	112	18448	9.61	ppb	96
78) Ethylbenzene	9.89	91	43432	9.23	ppb	100
79) Bromoform	10.57	173	10042	9.87	ppb	99
81) Isopropylbenzene	10.78	105	43283	8.99	ppb	99
82) 1,1,2,2-Tetrachloroethane	11.05	83	10248	8.10	ppb	97
83) 1,2,3-Trichloropropane	11.09	110	4066	9.39	ppb	93
84) t-1,4-Dichloro-2-Butene	11.12	53	1792	6.79	ppb	85
85) Bromobenzene	11.05	77	11528	9.19	ppb	87
86) n-Propylbenzene	11.19	91	46762	8.74	ppb	99
87) 4-Ethyltoluene	11.31	105	42286	9.21	ppb	97
88) 2-Chlorotoluene	11.26	91	20941	9.44	ppb	96
89) 1,3,5-Trimethylbenzene	11.37	105	38132	9.34	ppb	99
90) 4-Chlorotoluene	11.37	91	23712	9.39	ppb	93
91) Tert-Butylbenzene	11.69	119	33116	8.99	ppb	98
92) 1,2,4-Trimethylbenzene	11.74	105	35774	8.55	ppb	95
93) Sec-Butylbenzene	11.91	105	41701	8.73	ppb	98
94) p-Isopropyltoluene	12.06	119	36984	8.82	ppb	97
95) Benzyl Chloride	12.22	91	5047	5.15	ppb	94
96) 1,3-DCB	12.00	146	15794	8.66	ppb	98
97) 1,4-DCB	12.09	146	24388	8.83	ppb	99
98) n-Butylbenzene	12.46	91	25361	7.96	ppb	93
99) 1,2-DCB	12.45	146	15218	9.17	ppb	96
100) Hexachloroethane	12.72	117	4677	9.17	ppb	92
101) 1,2-Dibromo-3-chloropropan	13.22	157	1425	7.80	ppb	# 86
102) 1,2,4-Trichlorobenzene	14.06	182	7313	7.34	ppb	# 90
103) Hexachlorobutadiene	14.25	225	5974	9.80	ppb	94
104) Naphthalene	14.30	128	15681	6.23	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	10794	7.68	ppb	# 77

(#) = qualifier out of range (m) = manual integration
 1029T47.D T1023W.M Wed Nov 20 14:01:42 2019

Quantitation Report

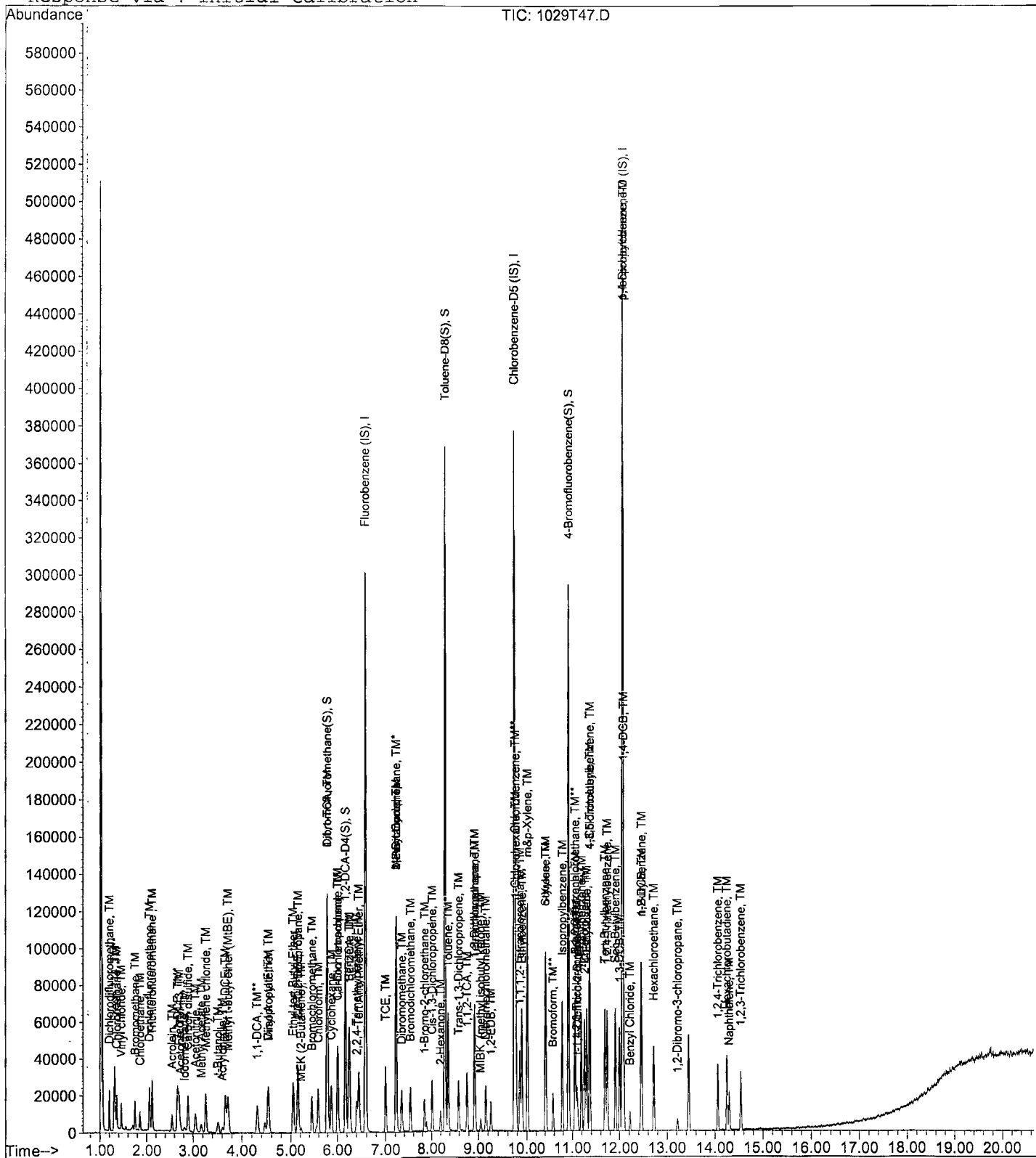
Data File : M:\THOR\DATA\T191028\1029T47.D
Acq On : 30 Oct 19 9:29
Sample : Ending CCV 10ug/L 10/29/19
Misc : IS&S 9/23/19

Vial: 47
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:36 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Loki

Initials: _____

1023L10.D 1023L11.D 1023L12.D 1023L13.D 1023L14.D 1023L15.D 1023L16.D 1023L17.D 1023L18.D

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)														
2	TM	Chlorotrifluoroethene											TM			
3	TML	Dichlorodifluoromethane	0.0880	0.0722	0.0621	0.0589	0.0578	0.0587	0.0535	0.0579	0.06	18	TML	0.999		
4	TML	Freon 114	0.2235	0.1320	0.1596	0.1211	0.1160	0.1136	0.1058	0.0986	0.13	30	TML	0.999		
5	TM**L	Chloromethane	0.3269	0.2689	0.2351	0.1900	0.1718	0.1659	0.1537	0.1613	0.21	30	TM**L	0.999		
6	TM*	Vinyl chloride	0.2111	0.1934	0.2183	0.1818	0.1816	0.1723	0.1607	0.1521	0.18	13	TM*			
7	TM	2-Chloro-1,1,1-trifluoroethane											TM			
8	TML	Bromomethane	0.4022	0.2674	0.2871	0.2214	0.2217				0.28	26	TML	0.998		
9	TML	Chloroethane	0.2226	0.1493	0.1668	0.1467	0.1441				0.17	20	TML	0.999		
10	TM	Dichlorofluoromethane	0.4146	0.4236	0.3744	0.3169	0.3288	0.3132	0.3060		0.35	14	TM			
11	TM	Trichlorofluoromethane	0.2175	0.2371	0.2201	0.2098	0.2136	0.2076	0.1807	0.2000	0.21	7.7	TM			
12	TM	Diethyl ether											TM			
13	TM	Acrolein	0.0193	0.0187	0.0186	0.0192	0.0179	0.0166	0.0182	0.0187	0.02	4.7	TM			
14	TML	Acetone			0.1568	0.0839	0.0610	0.0576	0.0518	0.0471	0.08	54	TML	0.998		
15	TM	Freon-113	0.2129	0.1684	0.1821	0.1567	0.1517	0.1496	0.1388		0.17	15	TM			
16	TM*L	1,1-DCE	0.2193	0.1697	0.2015	0.1373	0.1532	0.1409	0.1380	0.1293	0.16	21	TM*L	0.999		
17	TML	t-Butanol	0.0207	0.0169	0.0148	0.0147	0.0155	0.0159	0.0166		0.02	12	TML	0.994		
18	TM	2-Propanol											TM			
19	TM	Acetonitrile	0.0345	0.0305	0.0308	0.0281	0.0275	0.0265	0.0245	0.0227	0.03	13	TM			
20	TML	Methyl Acetate	0.1918	0.1630	0.1520	0.1677	0.1360	0.1291	0.1270		0.15	16	TML	0.999		
21	TML	Iodomethane	0.0633	0.0442	0.0565	0.0645	0.0943	0.1203	0.1410		0.08	43	TML	0.991		
22	TML	Acrylonitrile		0.1295	0.0962	0.0850	0.0765	0.0740	0.0691	0.0609	0.08	27	TML	0.997		
23	TML	Methylene chloride	0.3582	0.3060	0.2774	0.2024	0.1881	0.1817	0.1685	0.1564	0.23	32	TML	0.999		
24	TML	Carbon disulfide	0.5002	0.3730	0.4086	0.3087	0.3166				0.38	20	TML	0.993		
25	TM	Methyl t-butyl ether (MtBE)	0.4786	0.3967	0.3992	0.3604	0.3441	0.3351	0.3306	0.3154	0.37	14	TM			
26	TML	Trans-1,2-DCE	0.2484	0.2082	0.1954	0.1577	0.1742	0.1697	0.1591	0.1525	0.18	18	TML	0.999		
27	TM	Diisopropyl Ether	0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383	0.34	8.0	TM			
28	TM**	2,2-Dichloro-1,1,1-trifluoroethane											TM**			
29	TM**	1,1-DCA	0.2844	0.2574	0.2790	0.2378	0.2571	0.2391	0.2994	0.2647	0.26	8.2	TM**			
30	TM	Vinyl Acetate	0.3513	0.3551	0.3906	0.3097	0.3109	0.3195	0.3436	0.3383	0.34	8.0	TM			
31	TM	Ethyl tert Butyl Ether	0.1493	0.1248	0.1340	0.1003	0.1124	0.1123	0.1133	0.1248	0.12	13	TM			
32	TML	MEK (2-Butanone)			0.0324	0.0165	0.0133	0.0143	0.0150	0.0162	0.02	40	TML	0.998		
33	TML	Cis-1,2-DCE	0.2289	0.1640	0.1557	0.1479	0.1420	0.1443	0.1410	0.1359	0.16	19	TML	1.000		
34	TM	2,2-Dichloropropane	0.1966	0.2302	0.2044	0.1848	0.1862	0.1877	0.1814	0.1715	0.19	9.3	TM			
35	TM	2-Methylpentane											TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Loki

Initials: _____

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	Type	Q	MRF
36	TM	3-Methylpentane												TM		
37	TM*	Chloroform		0.3171	0.2945	0.3006	0.2845	0.2703	0.2696	0.2539	0.2381	0.28	9.3	TM*		
38	TM	Bromochloromethane		0.1089	0.1072	0.0954	0.0922	0.0913	0.0848	0.0866	0.0760	0.09	12	TM		
39	S	Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768	0.31	7.4	S		
40	TM	1,1,1-TCA		0.2466	0.2571	0.2752	0.2137	0.2437	0.2350	0.2253	0.2163	0.24	8.8	TM		
41	TML	Cyclohexane			0.1265	0.1151	0.0811	0.0861	0.0819	0.0824	0.0858	0.09	20	TML	1.000	
42	TM	1,1-Dichloropropene		0.1271	0.1720	0.1516	0.1311	0.1322	0.1431	0.1390	0.1460	0.14	10	TM		
43	TM	2,2,4-Trimethylpentane		0.2046	0.2496	0.2457	0.2105	0.2253	0.2404	0.2404	0.2627	0.23	8.5	TM		
44	S	1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961	0.33	8.5	S		
45	TM	Carbon Tetrachloride		0.1604	0.2305	0.2409	0.2229	0.2234	0.2174	0.2024	0.1959	0.21	12	TM		
46	TM	Tert Amyl Methyl Ether			0.0817	0.0931	0.0787	0.0756	0.0815	0.0866	0.1009	0.09	10	TM		
47	TM	Methylcyclopentane												TM		
48	TM	1,2-DCA		0.2398	0.2085	0.2239	0.1874	0.2036	0.1943	0.1905	0.1767	0.20	10	TM		
49	TM	Benzene		0.5930	0.5529	0.5115	0.4473	0.4716	0.4850	0.4808	0.4617	0.50	9.9	TM		
50	TM	TCE		0.1913	0.1728	0.1589	0.1509	0.1623	0.1483	0.1483	0.1448	0.16	9.9	TM		
51	TM	2-Pentanone		0.0512	0.0511	0.0510	0.0526	0.0503	0.0527	0.0539	0.0575	0.05	4.4	TM		
52	TM*	1,2-Dichloropropane		0.1278	0.1222	0.1579	0.1180	0.1225	0.1257	0.1254	0.1173	0.13	10	TM*		
53	TM	Bromodichloromethane		0.1995	0.2191	0.2118	0.1944	0.2044	0.1957	0.1945	0.1815	0.20	5.8	TM		
54	TM	Methyl Cyclohexane		0.1535	0.1267	0.1519	0.1057	0.1210	0.1196	0.1334	0.1436	0.13	13	TM		
55	TM	Dibromomethane		0.0929	0.1302	0.0969	0.1012	0.0922	0.0950	0.0948	0.0869	0.10	14	TM		
56	TML	2-Chloroethyl vinyl ether												TML		*
57	TML	MIBK (methyl isobutyl ketone)		0.0827	0.0922	0.0644	0.0509	0.0607	0.0597	0.0691	0.0689	0.07	19	TML	0.995	
58	TM	1-Bromo-2-chloroethane		0.1531	0.1577	0.1587	0.1593	0.1618	0.1594	0.1599	0.1486	0.16	2.8	TM		
59	TM	Cis-1,3-Dichloropropene		0.1626	0.1909	0.1585	0.1541	0.1634	0.1537	0.1600	0.1615	0.16	7.2	TM		
60	TM*	Toluene		0.4777	0.4622	0.4420	0.4535	0.4757	0.5055	0.5113	0.5039	0.48	5.4	TM*		
61	TM	Trans-1,3-Dichloropropene		0.1247	0.1541	0.1332	0.1179	0.1424	0.1527	0.1562	0.1580	0.14	11	TM		
62	TM	1,1,2-TCA		0.1049	0.1057	0.0925	0.1049	0.1054	0.1082	0.1020	0.0943	0.10	5.6	TM		
63	TML	2-Hexanone			0.0449	0.0200	0.0243	0.0181	0.0289	0.0248	0.0273	0.03	33	TML	0.997	
64	I	Chlorobenzene-D5 (IS)														
65	S	Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617	0.91	9.0	S		
66	TM	1,2-EDB		0.1267	0.1287	0.1339	0.1202	0.1334	0.1289	0.1357	0.1265	0.13	3.9	TM		
67	TM	Tetrachloroethene		0.2557	0.1968	0.2027	0.1752	0.1783	0.1867	0.1773	0.1713	0.19	14	TM		
68	TM	1-Chlorohexane		0.1059	0.1087	0.1181	0.1046	0.1150	0.1196	0.1311	0.1410	0.12	11	TM		
69	TML	1,1,1,2-Tetrachloroethane		0.2391	0.2464	0.1817	0.1760	0.1779	0.1732	0.1720	0.1590	0.19	17	TML	0.999	
70	TML	m&p-Xylene		0.3600	0.2941	0.3461	0.3123	0.3629	0.4195	0.4559	0.4632	0.38	17	TML	1.000	

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Loki

Initials: _____

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	Q	MRF
71	TM	o-Xylene		0.1571	0.1849	0.1982	0.1739	0.1820	0.1967	0.2218	0.2292		0.19	12	TM		
72	TML	Styrene		0.2167	0.2270	0.2610	0.2391	0.2723	0.3346	0.3866	0.3958		0.29	24	TML	0.999	
73	S	4-Bromofluorobenzene(S)	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S		
74	TM	1,3-Dichloropropane		0.2068	0.2345	0.2113	0.1823	0.1930	0.2014	0.2026	0.1844		0.20	8.3	TM		
75	TM	Dibromochloromethane		0.1931	0.2063	0.2141	0.1782	0.1874	0.1742	0.1861	0.1684		0.19	8.3	TM		
76	TM**	Chlorobenzene		0.4937	0.4361	0.4383	0.3830	0.3901	0.3885	0.3924	0.3720		0.41	10.0	TM**		
77	TM*	Ethylbenzene		0.4407	0.4204	0.4803	0.4285	0.4625	0.5274	0.5605	0.5622		0.49	12	TM*		
78	TM**	Bromoform		0.1323	0.1359	0.1491	0.1276	0.1372	0.1397	0.1446	0.1273		0.14	5.6	TM**		
79	I	1,4-Dichlorobenzene-D (IS)															
80	TM	Isopropylbenzene		0.5856	0.5289	0.5018	0.4318	0.4759	0.5078	0.5625	0.5703		0.52	10.0	TM		
81	TM**L	1,1,2,2-Tetrachloroethane		0.4746	0.4405	0.4427	0.3542	0.3524	0.2996	0.2969	0.2466		0.36	23	TM**L	0.994	
82	TML	1,2,3-Trichloropropane		0.1731	0.0943	0.1307	0.1188	0.1225	0.1007	0.1076			0.12	22	TML	0.997	
83	TM	t-1,4-Dichloro-2-Butene				0.0357	0.0337	0.0404	0.0363	0.0395	0.0354		0.04	7.0	TM		
84	TM	Bromobenzene		0.3492	0.4295	0.3882	0.3490	0.3438	0.3176	0.3322	0.3026		0.35	11	TM		
85	TML	n-Propylbenzene		0.7558	0.4687	0.9138	0.9209	0.9909	0.9770	1.108	1.093		0.90	23	TML	1.000	
86	TML	4-Ethyltoluene		0.6774	0.6404	0.6417	0.6595	0.7976	0.8617	1.001	0.9857		0.78	19	TML	0.999	
87	TM	2-Chlorotoluene		0.3654	0.4185	0.4066	0.3802	0.3612	0.4006	0.4365	0.4055		0.40	6.6	TM		
88	TML	1,3,5-Trimethylbenzene		0.6675	0.6950	0.6313	0.6132	0.7414	0.8323	0.9454	0.8934		0.75	17	TML	0.999	
89	TM	4-Chlorotoluene		0.1313	0.1267	0.1551	0.1280	0.1576	0.1656	0.1728	0.1739		0.15	13	TM		
90	TM	Tert-Butylbenzene		0.5705	0.6573	0.6077	0.6181	0.6143	0.7336	0.7011	0.7264		0.65	9.3	TM		
91	TML	1,2,4-Trimethylbenzene		0.6123	0.6140	0.5889	0.5538	0.6582	0.7168	0.8549	0.8602		0.68	17	TML	0.999	
92	TM	Sec-Butylbenzene		0.8267	0.7982	0.8049	0.7524	0.8609	0.9128	1.038	1.045		0.88	13	TM		
93	TM	p-Isopropyltoluene		0.9336	0.8116	0.8559	0.7340	0.8567	0.8976	1.007	1.010		0.89	11	TM		
94	TM	Benzyl Chloride		0.2231	0.2759	0.2770	0.2077	0.2008	0.1988	0.1986	0.2301		0.23	15	TM		
95	TM	1,3-DCB		0.5885	0.5277	0.6171	0.5066	0.5870	0.5493	0.6076	0.5638		0.57	6.8	TM		
96	TM	1,4-DCB		0.7396	0.8267	0.7799	0.6052	0.6496	0.6051	0.6618	0.6213		0.69	12	TM		
97	TM	n-Butylbenzene		0.5281	0.5470	0.5277	0.4704	0.5476	0.5675	0.6752	0.7301		0.57	15	TM		
98	TM	1,2-DCB		0.7204	0.5796	0.6249	0.5247	0.5454	0.4927	0.5441	0.5382		0.57	13	TM		
99	TML	Hexachloroethane		0.0744	0.1824	0.2215	0.1831	0.1807	0.1764	0.1662	0.1948		0.17	25	TML	0.997	
100	TML	1,2-Dibromo-3-chloropropane			0.0721	0.0466	0.0398	0.0441	0.0409	0.0432	0.0441		0.05	24	TML	1.000	
101	TMQ	1,2,4-Trichlorobenzene		0.1046	0.1759	0.1809	0.1581	0.1574	0.1822	0.2252	0.2945		0.18	30	TMQ	1.000	
102	TML	Hexachlorobutadiene		0.0720	0.0845	0.0886	0.0483	0.0440	0.0405	0.0485	0.0553		0.06	31	TML	0.995	
103	TMQ	Naphthalene		0.2202	0.3782	0.2056	0.2022	0.2403	0.2494	0.3565	0.5141		0.30	37	TMQ	1.000	
104	TML	1,2,3-Trichlorobenzene			0.1412	0.1020	0.0878	0.0909	0.0894	0.1135	0.1350		0.11	20	TML	0.994	
105																	

Data File : M:\LOKI\DATA\191023\1023L10.D Vial: 6
 Acq On : 23 Oct 19 19:30 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 24 7:41 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 08:39:31 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	199488	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	15394	5.62	ppb	0.00
Spiked Amount						
						Recovery = 22.476%
44) 1,2-DCA-D4(S)	4.95	65	17619	5.84	ppb	0.00
Spiked Amount						
						Recovery = 23.372%
65) Toluene-D8(S)	7.38	98	39179	5.27	ppb	0.00
Spiked Amount						
						Recovery = 21.064%
73) 4-Bromofluorobenzene(S)	10.28	95	12477	4.47	ppb	0.00
Spiked Amount						
						Recovery = 17.860%
Target Compounds						
17) t-Butanol	2.42	59	1870	41.09	ppb #	Qvalue 80

Quantitation Report

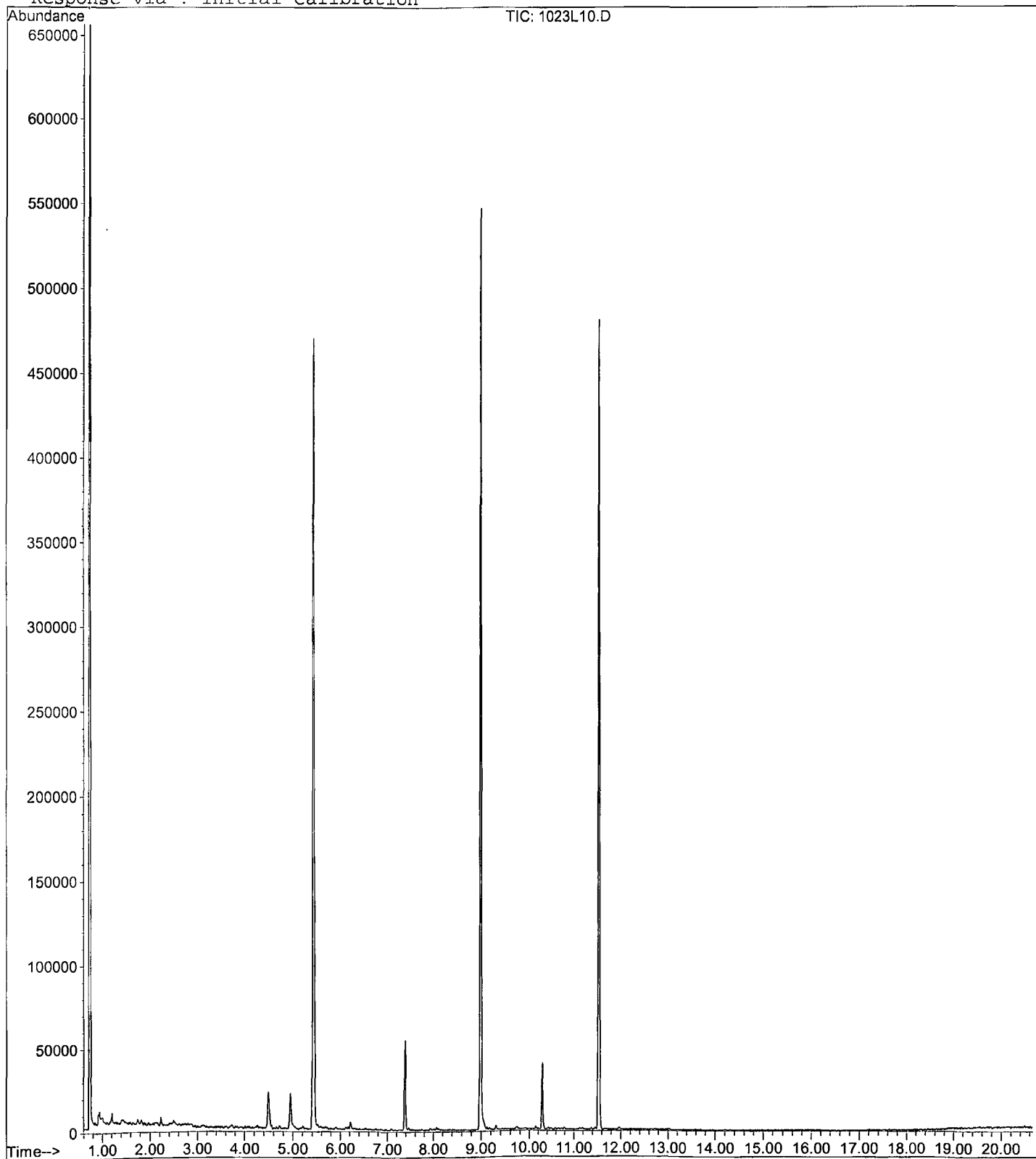
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 7:41 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211584	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	15575	5.62	ppb	0.00
Spiked Amount	25.000		Recovery	=	22.488%	
44) 1,2-DCA-D4(S)	4.95	65	16291	5.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.892%	
65) Toluene-D8(S)	7.38	98	37595	4.88	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.532%	
73) 4-Bromofluorobenzene(S)	10.29	95	13224	4.85	ppb	0.00
Spiked Amount	25.000		Recovery	=	19.396%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	396	0.83	ppb #	49
4) Freon 114	0.91	85	1006	-0.37	ppb	75
5) Chloromethane	0.94	50	1471	0.45	ppb #	87
6) Vinyl chloride	1.01	62	950	0.57	ppb #	78
8) Bromomethane	1.21	94	1810	0.52	ppb	83
9) Chloroethane	1.28	64	1002	0.56	ppb	96
10) Dichlorofluoromethane	1.41	67	1866	0.59	ppb	86
11) Trichlorofluoromethane	1.45	103	979	0.52	ppb	77
13) Acrolein	1.75	56	4338	26.18	ppb #	69
14) Acetone	1.88	43	2059	0.39	ppb #	87
15) Freon-113	1.83	101	958	0.64	ppb #	82
16) 1,1-DCE	1.82	96	987	-0.26	ppb #	68
17) t-Butanol	2.41	59	3809	27.39	ppb #	86
19) Acetonitrile	2.11	41	7685	30.35	ppb #	76
20) Methyl Acetate	2.17	43	1280	0.46	ppb #	47
21) Iodomethane	1.93	142	285	1.93	ppb #	42
22) Acrylonitrile	2.48	53	200	-2.27	ppb #	4
23) Methylene chloride	2.23	84	1612	-0.67	ppb	99
24) Carbon disulfide	1.97	76	2251	0.49	ppb #	77
25) Methyl t-butyl ether (MtBE)	2.52	73	2154	0.65	ppb #	90
26) Trans-1,2-DCE	2.50	96	1118	-0.10	ppb #	85
27) Diisopropyl Ether	3.11	45	1581	0.52	ppb	98
29) 1,1-DCA	2.95	63	1280	0.54	ppb #	76
30) Vinyl Acetate	3.11	45	1581	0.52	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	672	0.62	ppb #	82
32) MEK (2-Butanone)	3.85	43	242	2.37	ppb #	40
33) Cis-1,2-DCE	3.73	96	1030	0.26	ppb #	72
34) 2,2-Dichloropropane	3.72	77	885	0.51	ppb #	76
37) Chloroform	4.27	83	1427	0.57	ppb	88
38) Bromochloromethane	4.09	128	490	0.59	ppb #	65
40) 1,1,1-TCA	4.49	97	1110	0.52	ppb	87
41) Cyclohexane	4.54	41	745	1.06	ppb #	29
42) 1,1-Dichloropropene	4.75	75	572	0.45	ppb #	79
43) 2,2,4-Trimethylpentane	5.20	57	921	0.44	ppb #	43
45) Carbon Tetrachloride	4.72	117	722	0.38	ppb	95
46) Tert Amyl Methyl Ether	5.28	73	161	0.21	ppb #	59
48) 1,2-DCA	5.06	62	1079	0.59	ppb #	84
49) Benzene	5.02	78	2669	0.59	ppb #	87
50) TCE	5.90	130	861	0.60	ppb #	77

(#) = qualifier out of range (m) = manual integration
 1023L11.D L1023W.M Wed Nov 20 14:07:34 2019

Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	11517	24.36	ppb	94
52) 1,2-Dichloropropane	6.17	63	575	0.50	ppb #	82
53) Bromodichloromethane	6.54	83	898	0.50	ppb #	82
54) Methyl Cyclohexane	6.12	83	691	0.58	ppb	88
55) Dibromomethane	6.30	93	418	0.47	ppb #	36
57) MIBK (methyl isobutyl ket	7.32	43	372	0.57	ppb #	79
58) 1-Bromo-2-chloroethane	6.87	63	689	0.49	ppb	93
59) Cis-1,3-Dichloropropene	7.09	75	732	0.50	ppb #	83
60) Toluene	7.46	91	2150	0.50	ppb	80
61) Trans-1,3-Dichloropropene	7.74	75	561	0.44	ppb #	71
62) 1,1,2-TCA	7.93	83	472	0.51	ppb	97
63) 2-Hexanone	8.27	43	86	1.26	ppb #	26
66) 1,2-EDB	8.46	107	536	0.49	ppb #	64
67) Tetrachloroethene	8.07	166	1082	0.66	ppb #	80
68) 1-Chlorohexane	9.06	91	448	0.45	ppb #	73
69) 1,1,1,2-Tetrachloroethane	9.12	131	1012	-0.21	ppb	98
70) m&p-Xylene	9.30	91	3047	2.95	ppb	92
71) o-Xylene	9.72	106	665	0.41	ppb	78
72) Styrene	9.75	104	917	1.81	ppb #	73
74) 1,3-Dichloropropane	8.12	76	875	0.51	ppb	91
75) Dibromochloromethane	8.36	129	817	0.51	ppb	96
76) Chlorobenzene	9.01	112	2089	0.60	ppb	94
77) Ethylbenzene	9.17	91	1865	0.45	ppb	94
78) Bromoform	9.90	173	560	0.48	ppb #	23
80) Isopropylbenzene	10.15	105	1008	0.56	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	817	-1.80	ppb #	89
82) 1,2,3-Trichloropropane	10.49	110	298	0.44	ppb	90
84) Bromobenzene	10.43	156	601	0.50	ppb	97
85) n-Propylbenzene	10.59	91	1301	1.05	ppb	88
86) 4-Ethyltoluene	10.72	105	1166	1.42	ppb #	80
87) 2-Chlorotoluene	10.66	91	629	0.46	ppb	88
88) 1,3,5-Trimethylbenzene	10.80	105	1149	0.44	ppb #	73
89) 4-Chlorotoluene	10.78	126	226	0.43	ppb #	29
90) Tert-Butylbenzene	11.13	119	982	0.44	ppb	87
91) 1,2,4-Trimethylbenzene	11.19	105	1054	1.67	ppb	86
92) Sec-Butylbenzene	11.37	105	1423	0.47	ppb	100
93) p-Isopropyltoluene	11.55	119	1607	0.53	ppb #	78
94) Benzyl Chloride	11.71	91	384	0.49	ppb #	61
95) 1,3-DCB	11.46	146	1013	0.52	ppb #	82
96) 1,4-DCB	11.56	146	1273	0.54	ppb	89
97) n-Butylbenzene	11.98	91	909	0.46	ppb #	81
98) 1,2-DCB	11.95	146	1240	0.63	ppb #	85
99) Hexachloroethane	12.23	201	128	1.09	ppb #	89
101) 1,2,4-Trichlorobenzene	13.69	180	180	0.81	ppb #	48
102) Hexachlorobutadiene	13.90	223	124	1.84	ppb #	58
103) Naphthalene	13.95	128	379	1.00	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	250	3.31	ppb #	73

(#) = qualifier out of range (m) = manual integration
 1023L11.D L1023W.M Wed Nov 20 14:07:35 2019

Quantitation Report

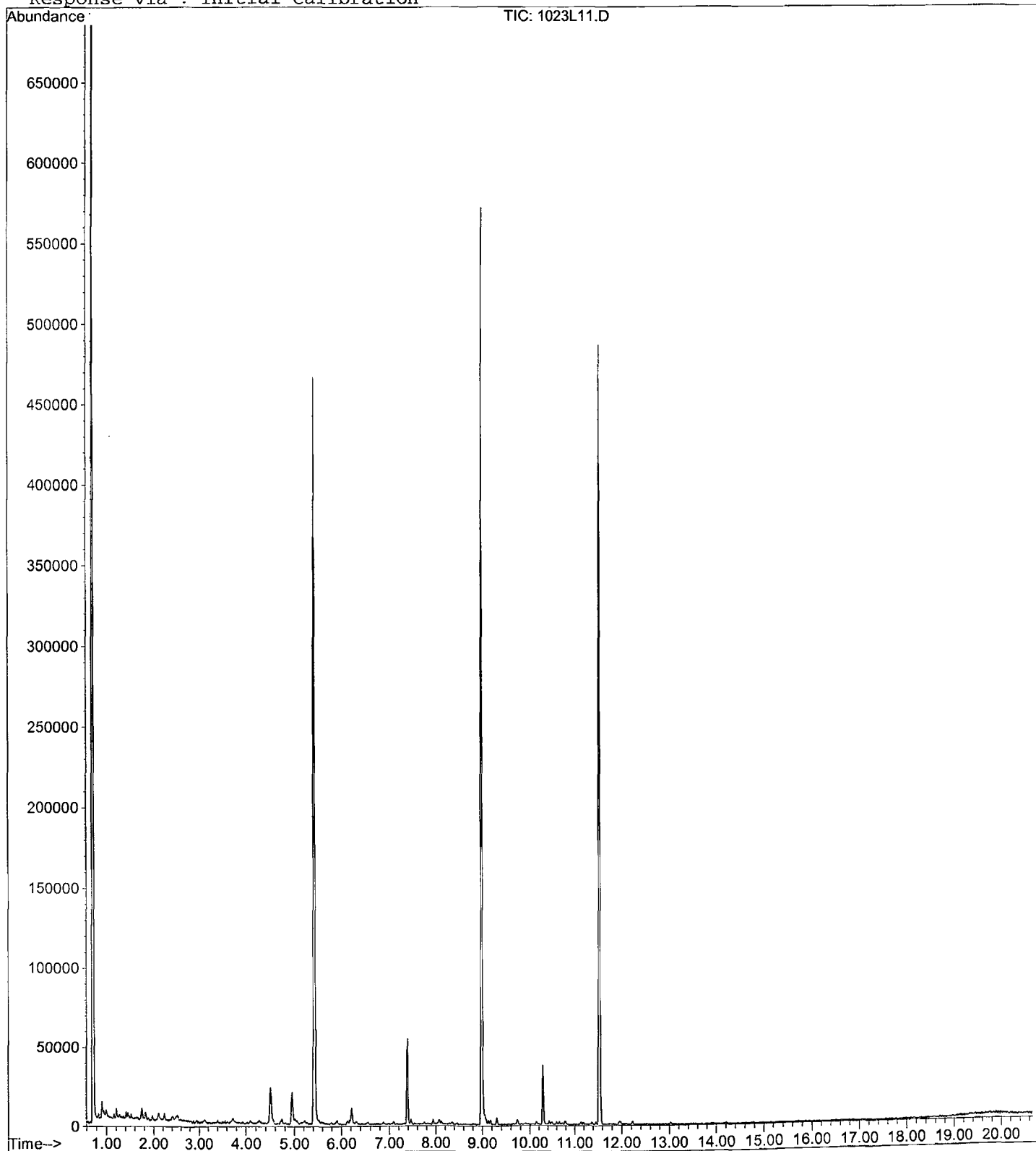
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	208192	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	27680	9.79	ppb	0.00
Spiked Amount	25.000		Recovery	=	39.172%	
44) 1,2-DCA-D4(S)	4.95	65	28867	9.51	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.020%	
65) Toluene-D8(S)	7.38	98	64087	8.46	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.840%	
73) 4-Bromofluorobenzene(S)	10.28	95	21968	8.19	ppb	0.00
Spiked Amount	25.000		Recovery	=	32.748%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	663	1.32	ppb	Qvalue 78
4) Freon 114	0.91	85	1212	-0.17	ppb	92
5) Chloromethane	0.94	50	2469	1.11	ppb	93
6) Vinyl chloride	1.01	62	1776	1.05	ppb	# 72
8) Bromomethane	1.21	94	2455	0.83	ppb	# 73
9) Chloroethane	1.28	64	1371	0.83	ppb	# 69
10) Dichlorofluoromethane	1.41	67	3890	1.20	ppb	100
11) Trichlorofluoromethane	1.45	103	2177	1.12	ppb	# 72
13) Acrolein	1.74	56	8606	50.91	ppb	# 66
14) Acetone	1.88	43	2599	1.59	ppb	97
15) Freon-113	1.84	101	1546	1.02	ppb	# 85
16) 1,1-DCE	1.82	96	1558	0.20	ppb	93
17) t-Butanol	2.41	59	6802	47.05	ppb	# 85
19) Acetonitrile	2.10	41	13984	54.13	ppb	86
20) Methyl Acetate	2.17	43	1497	0.63	ppb	99
21) Iodomethane	1.92	142	406	2.02	ppb	# 78
22) Acrylonitrile	2.48	53	1189	-0.50	ppb	# 80
23) Methylene chloride	2.23	84	2810	0.15	ppb	88
24) Carbon disulfide	1.97	76	3425	0.89	ppb	# 93
25) Methyl t-butyl ether (MtBE)	2.53	73	3643	1.07	ppb	# 86
26) Trans-1,2-DCE	2.49	96	1912	0.46	ppb	# 57
27) Diisopropyl Ether	3.11	45	3261	1.04	ppb	# 88
29) 1,1-DCA	2.95	63	2364	0.97	ppb	# 84
30) Vinyl Acetate	3.11	45	3261	1.04	ppb	# 88
31) Ethyl tert Butyl Ether	3.62	59	1146	1.03	ppb	# 40
32) MEK (2-Butanone)	3.82	43	284	2.62	ppb	# 50
33) Cis-1,2-DCE	3.73	96	1506	0.62	ppb	# 79
34) 2,2-Dichloropropane	3.70	77	2114	1.19	ppb	# 71
37) Chloroform	4.26	83	2704	1.06	ppb	# 68
38) Bromochloromethane	4.11	128	984	1.15	ppb	# 30
40) 1,1,1-TCA	4.49	97	2361	1.08	ppb	82
41) Cyclohexane	4.56	41	1162	1.57	ppb	# 51
42) 1,1-Dichloropropene	4.74	75	1579	1.20	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	2292	1.06	ppb	# 45
45) Carbon Tetrachloride	4.73	117	2117	1.09	ppb	90
46) Tert Amyl Methyl Ether	5.28	73	750	0.96	ppb	# 55
48) 1,2-DCA	5.06	62	1915	1.03	ppb	# 69
49) Benzene	5.01	78	5077	1.10	ppb	96
50) TCE	5.91	130	1587	1.08	ppb	# 75

(#) = qualifier out of range (m) = manual integration
 1023L12.D L1023W.M Wed Nov 20 14:07:36 2019

Data File : M:\LOKI\DATA\191023\1023L12.D
 Acq On : 23 Oct 19 20:27
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 8
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	23440	48.61	ppb	99
52) 1,2-Dichloropropane	6.17	63	1122	0.96	ppb #	82
53) Bromodichloromethane	6.54	83	2012	1.09	ppb #	73
54) Methyl Cyclohexane	6.13	83	1163	0.96	ppb	82
55) Dibromomethane	6.30	93	1196	1.32	ppb #	64
57) MIBK (methyl isobutyl ket	7.32	43	847	1.33	ppb #	76
58) 1-Bromo-2-chloroethane	6.88	63	1448	1.00	ppb #	59
59) Cis-1,3-Dichloropropene	7.09	75	1753	1.17	ppb #	89
60) Toluene	7.45	91	4244	0.96	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	1415	1.08	ppb #	67
62) 1,1,2-TCA	7.94	83	971	1.03	ppb #	78
63) 2-Hexanone	8.28	43	412	2.55	ppb #	26
66) 1,2-EDB	8.45	107	1072	1.00	ppb #	60
67) Tetrachloroethene	8.07	166	1639	1.02	ppb	95
68) 1-Chlorohexane	9.06	91	905	0.92	ppb #	66
69) 1,1,1,2-Tetrachloroethane	9.13	131	2052	0.59	ppb #	64
70) m&p-Xylene	9.30	91	4899	3.44	ppb #	81
71) o-Xylene	9.72	106	1540	0.96	ppb	75
72) Styrene	9.74	104	1890	2.11	ppb	92
74) 1,3-Dichloropropane	8.11	76	1953	1.16	ppb #	80
75) Dibromochloromethane	8.35	129	1718	1.09	ppb #	67
76) Chlorobenzene	9.02	112	3632	1.06	ppb	97
77) Ethylbenzene	9.17	91	3501	0.87	ppb	95
78) Bromoform	9.91	173	1132	0.99	ppb	98
80) Isopropylbenzene	10.15	105	1783	1.02	ppb #	76
81) 1,1,2,2-Tetrachloroethane	10.47	83	1485	-0.98	ppb	91
82) 1,2,3-Trichloropropane	10.50	110	318	0.51	ppb	98
84) Bromobenzene	10.43	156	1448	1.22	ppb	92
85) n-Propylbenzene	10.78	91	1580	1.14	ppb	96
86) 4-Ethyltoluene	10.72	105	2159	1.72	ppb	93
87) 2-Chlorotoluene	10.66	91	1411	1.05	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	2343	0.92	ppb	84
89) 4-Chlorotoluene	10.77	126	427	0.84	ppb	95
90) Tert-Butylbenzene	11.14	119	2216	1.01	ppb #	87
91) 1,2,4-Trimethylbenzene	11.19	105	2070	2.02	ppb	80
92) Sec-Butylbenzene	11.38	105	2691	0.91	ppb	95
93) p-Isopropyltoluene	11.54	119	2736	0.91	ppb #	85
94) Benzyl Chloride	11.72	91	930	1.22	ppb #	64
95) 1,3-DCB	11.46	146	1779	0.93	ppb #	93
96) 1,4-DCB	11.56	146	2787	1.20	ppb	95
97) n-Butylbenzene	11.98	91	1844	0.95	ppb	88
98) 1,2-DCB	11.95	146	1954	1.01	ppb	91
99) Hexachloroethane	12.23	201	615	1.84	ppb #	33
100) 1,2-Dibromo-3-chloropropan	12.79	75	243	1.89	ppb #	1
101) 1,2,4-Trichlorobenzene	13.69	180	593	1.51	ppb #	50
102) Hexachlorobutadiene	13.90	223	285	2.72	ppb #	63
103) Naphthalene	13.94	128	1275	2.10	ppb #	63
104) 1,2,3-Trichlorobenzene	14.21	182	476	3.81	ppb #	51

Quantitation Report

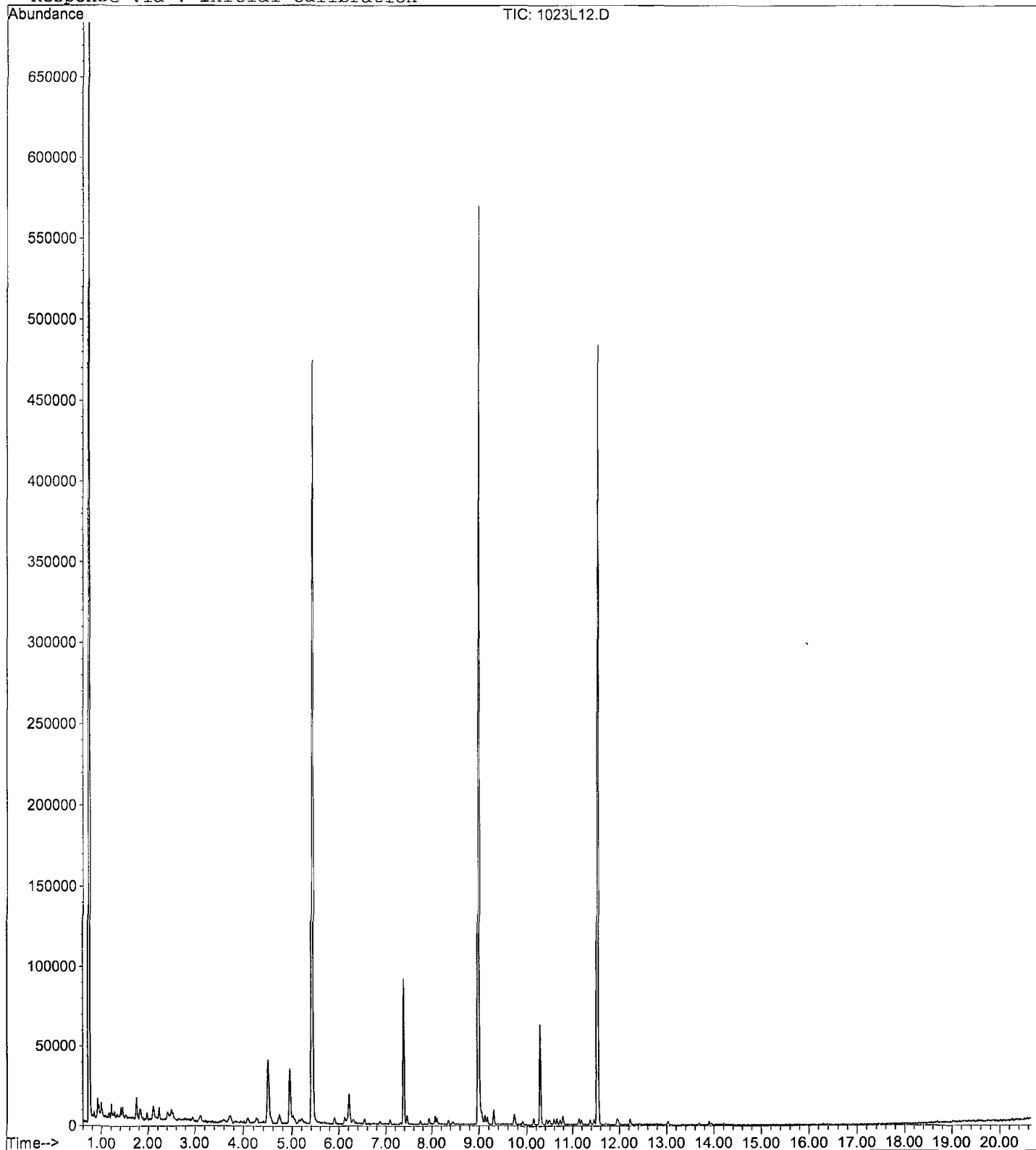
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	202496	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane (S)	4.50	111	25895	9.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.176%	
44) 1,2-DCA-D4 (S)	4.95	65	28773	9.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.444%	
65) Toluene-D8 (S)	7.38	98	64548	8.76	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.040%	
73) 4-Bromofluorobenzene (S)	10.29	95	21984	8.42	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.696%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	1124	2.22	ppb	99
4) Freon 114	0.91	85	2890	1.74	ppb	98
5) Chloromethane	0.94	50	4257	2.37	ppb	99
6) Vinyl chloride	1.01	62	3952	2.37	ppb	89
8) Bromomethane	1.21	94	5197	2.28	ppb	93
9) Chloroethane	1.27	64	3019	2.14	ppb	94
10) Dichlorofluoromethane	1.41	67	6778	2.12	ppb	93
11) Trichlorofluoromethane	1.45	103	3984	2.09	ppb	99
13) Acrolein	1.75	56	12639	75.84	ppb	# 75
14) Acetone	1.87	43	2838	2.27	ppb	# 88
15) Freon-113	1.84	101	3297	2.20	ppb	# 84
16) 1,1-DCE	1.82	96	3648	2.01	ppb	88
17) t-Butanol	2.41	59	10011	69.67	ppb	93
19) Acetonitrile	2.10	41	20885	82.01	ppb	91
20) Methyl Acetate	2.17	43	2752	1.75	ppb	96
21) Iodomethane	1.92	142	1022	2.50	ppb	# 74
22) Acrylonitrile	2.47	53	1741	0.55	ppb	# 63
23) Methylene chloride	2.23	84	5022	1.75	ppb	93
24) Carbon disulfide	1.97	76	7398	2.35	ppb	# 92
25) Methyl t-butyl ether (MtBE)	2.52	73	7227	2.16	ppb	# 93
26) Trans-1,2-DCE	2.50	96	3538	1.66	ppb	97
27) Diisopropyl Ether	3.11	45	7072	2.30	ppb	92
29) 1,1-DCA	2.95	63	5051	2.11	ppb	# 79
30) Vinyl Acetate	3.11	45	7072	2.30	ppb	92
31) Ethyl tert Butyl Ether	3.62	59	2426	2.21	ppb	97
32) MEK (2-Butanone)	3.81	43	586	4.72	ppb	# 70
33) Cis-1,2-DCE	3.73	96	2819	1.71	ppb	94
34) 2,2-Dichloropropane	3.71	77	3701	2.12	ppb	# 83
37) Chloroform	4.26	83	5443	2.16	ppb	# 74
38) Bromochloromethane	4.08	128	1727	2.06	ppb	86
40) 1,1,1-TCA	4.49	97	4982	2.30	ppb	90
41) Cyclohexane	4.55	41	2084	2.79	ppb	94
42) 1,1-Dichloropropene	4.74	75	2745	2.12	ppb	96
43) 2,2,4-Trimethylpentane	5.21	57	4449	2.09	ppb	# 50
45) Carbon Tetrachloride	4.71	117	4362	2.28	ppb	92
46) Tert Amyl Methyl Ether	5.27	73	1685	2.18	ppb	# 65
48) 1,2-DCA	5.05	62	4054	2.21	ppb	99
49) Benzene	5.01	78	9260	2.04	ppb	93
50) TCE	5.90	130	2876	1.99	ppb	95

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

Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	34625	72.84	ppb	100
52) 1,2-Dichloropropane	6.17	63	2858	2.48	ppb #	82
53) Bromodichloromethane	6.54	83	3834	2.12	ppb #	94
54) Methyl Cyclohexane	6.13	83	2750	2.30	ppb	91
55) Dibromomethane	6.30	93	1755	1.96	ppb	95
57) MIBK (methyl isobutyl ket	7.32	43	1166	1.87	ppb #	69
58) 1-Bromo-2-chloroethane	6.87	63	2874	2.02	ppb	84
59) Cis-1,3-Dichloropropene	7.09	75	2869	1.94	ppb	86
60) Toluene	7.45	91	8003	1.85	ppb	92
61) Trans-1,3-Dichloropropene	7.75	75	2411	1.87	ppb	98
62) 1,1,2-TCA	7.94	83	1675	1.81	ppb #	73
63) 2-Hexanone	8.28	43	362	2.37	ppb #	58
66) 1,2-EDB	8.44	107	2169	2.07	ppb #	81
67) Tetrachloroethene	8.07	166	3284	2.10	ppb #	79
68) 1-Chlorohexane	9.06	91	1913	2.00	ppb #	85
69) 1,1,1,2-Tetrachloroethane	9.12	131	2943	1.32	ppb	85
70) m&p-Xylene	9.30	91	11212	5.14	ppb	97
71) o-Xylene	9.72	106	3210	2.05	ppb	60
72) Styrene	9.74	104	4228	2.84	ppb	91
74) 1,3-Dichloropropane	8.11	76	3423	2.09	ppb	83
75) Dibromochloromethane	8.35	129	3468	2.27	ppb	98
76) Chlorobenzene	9.01	112	7100	2.13	ppb	88
77) Ethylbenzene	9.17	91	7781	1.98	ppb	100
78) Bromoform	9.91	173	2415	2.18	ppb	80
80) Isopropylbenzene	10.14	105	3631	1.93	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	3203	0.83	ppb #	90
82) 1,2,3-Trichloropropane	10.51	110	946	2.09	ppb #	74
83) t-1,4-Dichloro-2-Butene	10.53	53	258	1.94	ppb #	17
84) Bromobenzene	10.43	156	2809	2.21	ppb	86
85) n-Propylbenzene	10.59	91	6612	2.37	ppb	97
86) 4-Ethyltoluene	10.72	105	4643	2.36	ppb	89
87) 2-Chlorotoluene	10.65	91	2942	2.05	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	4568	1.68	ppb	88
89) 4-Chlorotoluene	10.77	126	1122	2.05	ppb #	64
90) Tert-Butylbenzene	11.14	119	4397	1.86	ppb #	92
91) 1,2,4-Trimethylbenzene	11.19	105	4261	2.67	ppb	94
92) Sec-Butylbenzene	11.38	105	5824	1.83	ppb	96
93) p-Isopropyltoluene	11.54	119	6193	1.93	ppb	94
94) Benzyl Chloride	11.71	91	2004	2.45	ppb #	84
95) 1,3-DCB	11.46	146	4465	2.17	ppb	98
96) 1,4-DCB	11.56	146	5643	2.27	ppb	89
97) n-Butylbenzene	11.98	91	3818	1.84	ppb	92
98) 1,2-DCB	11.95	146	4522	2.19	ppb #	85
99) Hexachloroethane	12.23	201	1603	3.19	ppb	85
100) 1,2-Dibromo-3-chloropropan	12.79	75	337	2.37	ppb #	66
101) 1,2,4-Trichlorobenzene	13.69	180	1309	2.56	ppb #	63
102) Hexachlorobutadiene	13.89	223	641	4.41	ppb #	1
103) Naphthalene	13.94	128	1488	2.24	ppb #	63
104) 1,2,3-Trichlorobenzene	14.20	182	738	4.28	ppb #	88

(#) = qualifier out of range (m) = manual integration
 1023L13.D L1023W.M Wed Nov 20 14:07:39 2019

Quantitation Report

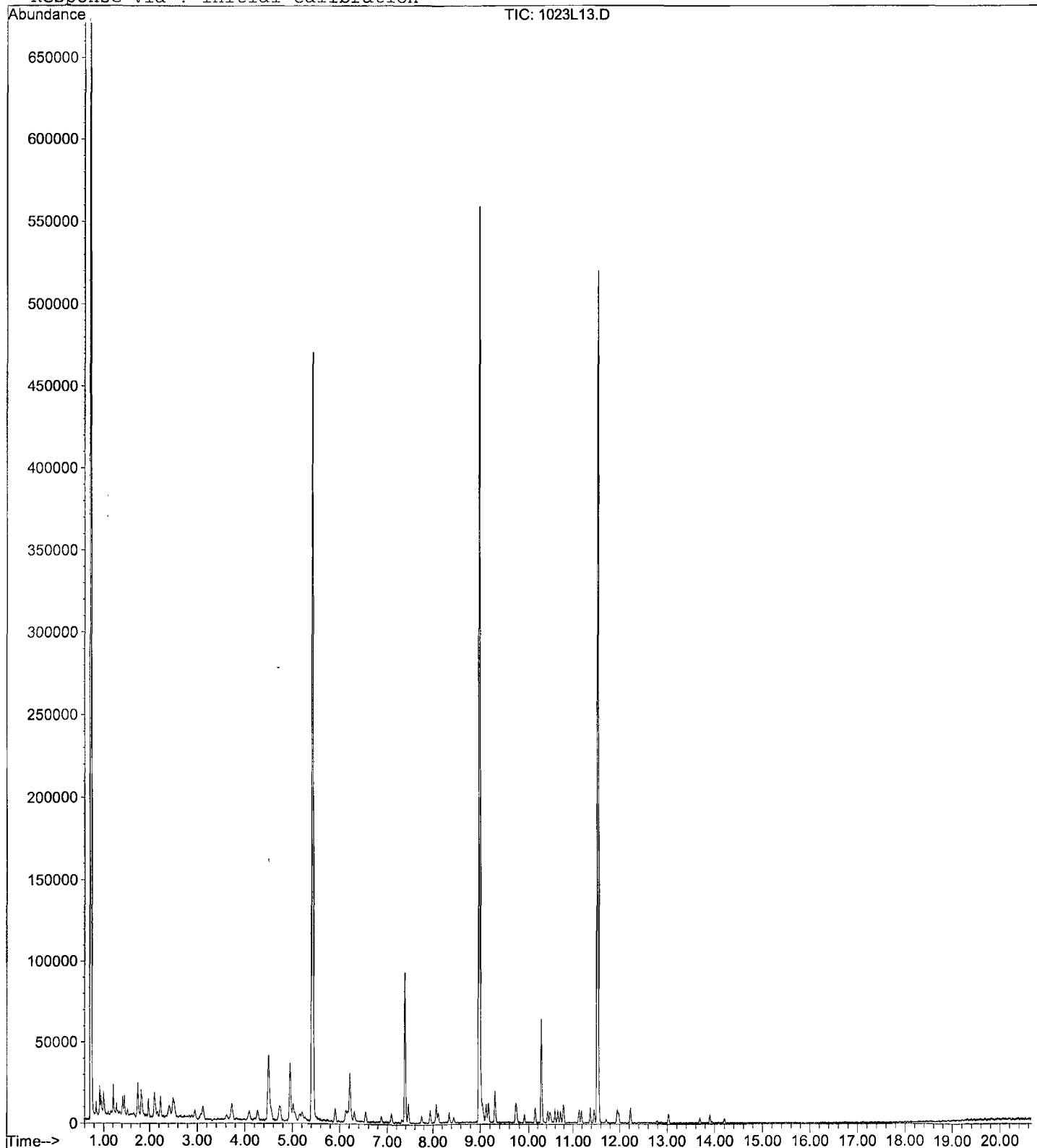
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	215872	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73331	25.57	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.268%	
44) 1,2-DCA-D4 (S)	4.95	65	77274	25.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.300%	
65) Toluene-D8(S)	7.38	98	196494	25.02	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.064%	
73) 4-Bromofluorobenzene(S)	10.29	95	66904	24.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.188%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	2745	5.20	ppb	79
4) Freon 114	0.91	85	5643	4.66	ppb	99
5) Chloromethane	0.94	50	8851	5.39	ppb	98
6) Vinyl chloride	1.01	62	8471	4.94	ppb	95
8) Bromomethane	1.21	94	10315	4.81	ppb	86
9) Chloroethane	1.28	64	6835	4.98	ppb	95
10) Dichlorofluoromethane	1.41	67	14766	4.48	ppb	97
11) Trichlorofluoromethane	1.45	103	9773	4.98	ppb	82
13) Acrolein	1.75	56	17869	104.16	ppb	# 82
14) Acetone	1.88	43	3908	4.61	ppb	100
15) Freon-113	1.84	101	7299	4.73	ppb	88
16) 1,1-DCE	1.82	96	6399	4.21	ppb	93
17) t-Butanol	2.44	59	14447	97.19	ppb	96
19) Acetonitrile	2.11	41	26178	99.86	ppb	96
20) Methyl Acetate	2.17	43	7813	6.02	ppb	95
21) Iodomethane	1.92	142	3005	3.97	ppb	91
22) Acrylonitrile	2.47	53	3958	4.40	ppb	93
23) Methylene chloride	2.23	84	9429	4.70	ppb	87
24) Carbon disulfide	1.97	76	14384	4.73	ppb	94
25) Methyl t-butyl ether (MtBE)	2.53	73	16791	4.87	ppb	96
26) Trans-1,2-DCE	2.50	96	7349	4.27	ppb	96
27) Diisopropyl Ether	3.12	45	14431	4.56	ppb	# 89
29) 1,1-DCA	2.95	63	11078	4.49	ppb	94
30) Vinyl Acetate	3.12	45	14431	4.56	ppb	# 89
31) Ethyl tert Butyl Ether	3.62	59	4671	4.13	ppb	# 87
32) MEK (2-Butanone)	3.85	43	769	5.82	ppb	# 72
33) Cis-1,2-DCE	3.73	96	6892	4.87	ppb	88
34) 2,2-Dichloropropane	3.71	77	8610	4.79	ppb	# 90
37) Chloroform	4.27	83	13255	5.11	ppb	90
38) Bromochloromethane	4.09	128	4298	4.97	ppb	75
40) 1,1,1-TCA	4.48	97	9955	4.47	ppb	90
41) Cyclohexane	4.54	41	3780	4.84	ppb	96
42) 1,1-Dichloropropene	4.74	75	6110	4.59	ppb	89
43) 2,2,4-Trimethylpentane	5.20	57	9807	4.48	ppb	87
45) Carbon Tetrachloride	4.72	117	10385	5.26	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	3669	4.61	ppb	# 84
48) 1,2-DCA	5.06	62	8733	4.61	ppb	100
49) Benzene	5.01	78	20840	4.47	ppb	95
50) TCE	5.90	130	7030	4.72	ppb	# 93

(#) = qualifier out of range (m) = manual integration
 1023L14.D L1023W.M Wed Nov 20 14:07:41 2019

Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	48974	100.08	ppb	97
52) 1,2-Dichloropropane	6.17	63	5496	4.64	ppb #	92
53) Bromodichloromethane	6.54	83	9059	4.86	ppb	91
54) Methyl Cyclohexane	6.12	83	4926	4.01	ppb	91
55) Dibromomethane	6.30	93	4716	5.12	ppb #	72
57) MIBK (methyl isobutyl ket	7.32	43	2371	3.75	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	7422	5.06	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	7182	4.73	ppb	99
60) Toluene	7.45	91	21128	4.73	ppb	91
61) Trans-1,3-Dichloropropene	7.75	75	5492	4.14	ppb	99
62) 1,1,2-TCA	7.94	83	4889	5.13	ppb	92
63) 2-Hexanone	8.27	43	1130	5.34	ppb #	82
66) 1,2-EDB	8.45	107	5191	4.65	ppb #	76
67) Tetrachloroethene	8.07	166	7564	4.54	ppb	94
68) 1-Chlorohexane	9.05	91	4515	4.43	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.12	131	7598	4.57	ppb	98
70) m&p-Xylene	9.31	91	26965	8.87	ppb	98
71) o-Xylene	9.72	106	7509	4.51	ppb	72
72) Styrene	9.75	104	10324	4.53	ppb	94
74) 1,3-Dichloropropane	8.11	76	7871	4.51	ppb	96
75) Dibromochloromethane	8.36	129	7692	4.73	ppb	84
76) Chlorobenzene	9.02	112	16534	4.65	ppb	93
77) Ethylbenzene	9.17	91	18501	4.41	ppb	93
78) Bromoform	9.91	173	5510	4.67	ppb	92
80) Isopropylbenzene	10.15	105	8921	4.15	ppb	91
81) 1,1,2,2-Tetrachloroethane	10.47	83	7318	4.43	ppb	92
82) 1,2,3-Trichloropropane	10.50	110	2455	5.24	ppb	80
83) t-1,4-Dichloro-2-Butene	10.54	53	697	4.58	ppb	85
84) Bromobenzene	10.43	156	7212	4.96	ppb	89
85) n-Propylbenzene	10.59	91	19028	4.89	ppb	96
86) 4-Ethyltoluene	10.72	105	13627	4.38	ppb	97
87) 2-Chlorotoluene	10.65	91	7856	4.79	ppb	80
88) 1,3,5-Trimethylbenzene	10.79	105	12671	4.07	ppb	97
89) 4-Chlorotoluene	10.78	126	2644	4.23	ppb	76
90) Tert-Butylbenzene	11.13	119	12772	4.73	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	11442	4.50	ppb	98
92) Sec-Butylbenzene	11.38	105	15546	4.28	ppb	99
93) p-Isopropyltoluene	11.54	119	15167	4.13	ppb	94
94) Benzyl Chloride	11.71	91	4291	4.58	ppb #	87
95) 1,3-DCB	11.46	146	10467	4.46	ppb	90
96) 1,4-DCB	11.55	146	12505	4.41	ppb	94
97) n-Butylbenzene	11.98	91	9719	4.10	ppb	90
98) 1,2-DCB	11.95	146	10842	4.59	ppb	96
99) Hexachloroethane	12.23	201	3784	5.64	ppb #	86
100) 1,2-Dibromo-3-chloropropan	12.79	75	823	4.77	ppb #	75
101) 1,2,4-Trichlorobenzene	13.69	180	3266	4.91	ppb	74
102) Hexachlorobutadiene	13.90	223	998	5.59	ppb #	68
103) Naphthalene	13.94	128	4178	4.60	ppb #	87
104) 1,2,3-Trichlorobenzene	14.20	182	1815	6.01	ppb #	85

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

1023L14.D L1023W.M Wed Nov 20 14:07:41 2019

Quantitation Report

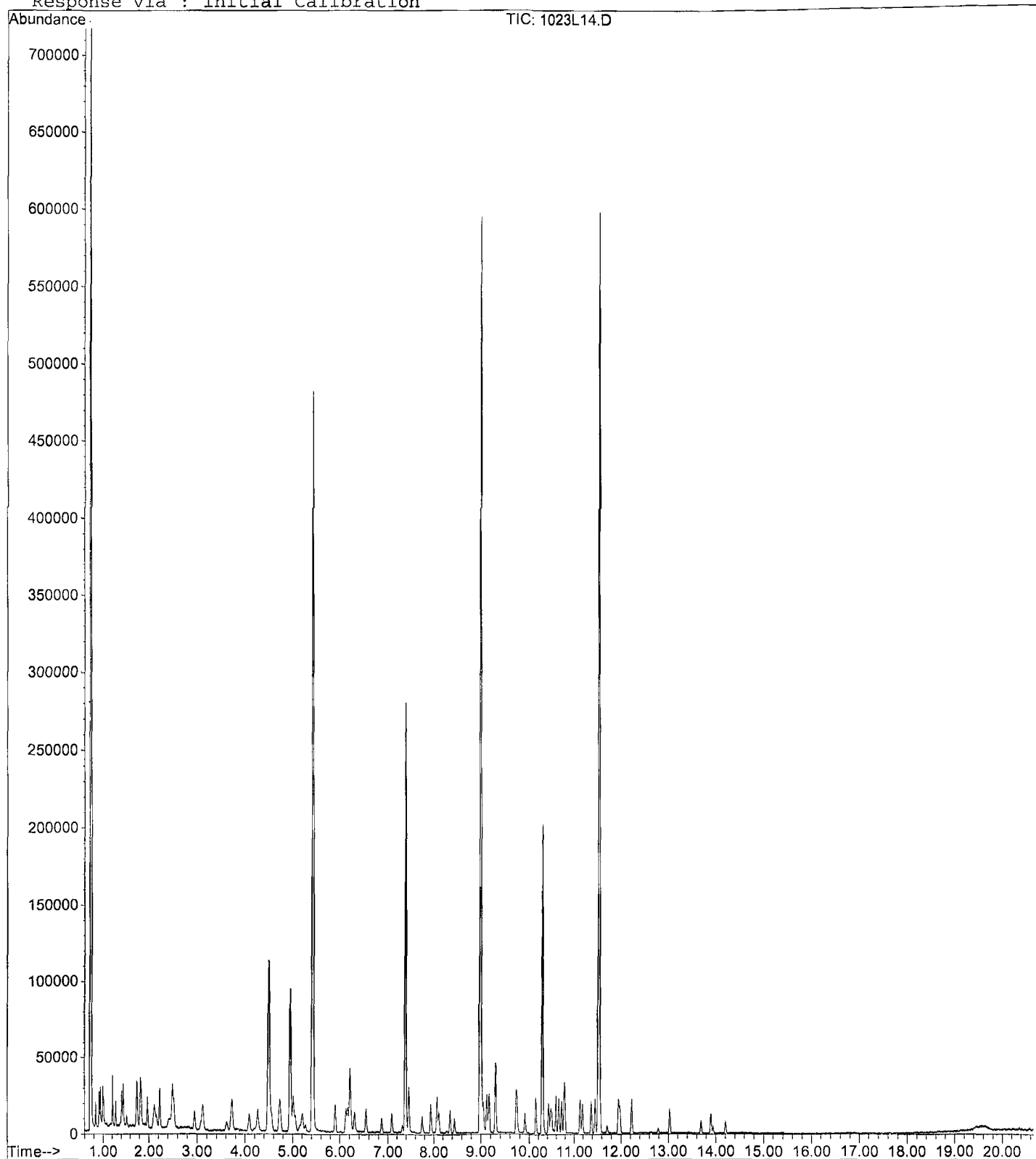
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	224832	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	73614	24.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.392%	
44) 1,2-DCA-D4(S)	4.95	65	77647	24.15	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.592%	
65) Toluene-D8(S)	7.38	98	203676	24.90	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.588%	
73) 4-Bromofluorobenzene(S)	10.29	95	73416	25.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	101.344%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.84	87	5617	10.13	ppb	100
4) Freon 114	0.91	85	11281	10.32	ppb	100
5) Chloromethane	0.94	50	16704	10.21	ppb	100
6) Vinyl chloride	1.01	62	17656	9.87	ppb	100
8) Bromomethane	1.21	94	21551	10.06	ppb	100
9) Chloroethane	1.27	64	14010	10.00	ppb	100
10) Dichlorofluoromethane	1.41	67	31971	9.29	ppb	100
11) Trichlorofluoromethane	1.45	103	20764	10.13	ppb	100
13) Acrolein	1.74	56	21736	121.43	ppb	100
14) Acetone	1.88	43	5930	8.82	ppb	100
15) Freon-113	1.84	101	14752	9.15	ppb	100
16) 1,1-DCE	1.82	96	14892	10.76	ppb	100
17) t-Butanol	2.42	59	19301	124.11	ppb	100
19) Acetonitrile	2.11	41	33427	122.20	ppb	100
20) Methyl Acetate	2.17	43	13219	10.18	ppb	100
21) Iodomethane	1.92	142	9167	8.31	ppb	100
22) Acrylonitrile	2.47	53	7439	10.05	ppb	100
23) Methylene chloride	2.23	84	18291	10.30	ppb	100
24) Carbon disulfide	1.97	76	30784	10.04	ppb	100
25) Methyl t-butyl ether (MtBE)	2.52	73	33454	9.30	ppb	100
26) Trans-1,2-DCE	2.50	96	16940	10.54	ppb	100
27) Diisopropyl Ether	3.12	45	30228	9.15	ppb	100
29) 1,1-DCA	2.95	63	25001	9.71	ppb	100
30) Vinyl Acetate	3.12	45	30228	9.15	ppb	100
31) Ethyl tert Butyl Ether	3.61	59	10926	9.26	ppb	100
32) MEK (2-Butanone)	3.82	43	1289	8.92	ppb	100
33) Cis-1,2-DCE	3.73	96	13811	9.88	ppb	100
34) 2,2-Dichloropropane	3.72	77	18108	9.66	ppb	100
37) Chloroform	4.27	83	26278	9.70	ppb	100
38) Bromochloromethane	4.09	128	8877	9.84	ppb	100
40) 1,1,1-TCA	4.49	97	23699	10.19	ppb	100
41) Cyclohexane	4.56	41	8372	10.18	ppb	100
42) 1,1-Dichloropropene	4.74	75	12858	9.26	ppb	100
43) 2,2,4-Trimethylpentane	5.20	57	21908	9.59	ppb	100
45) Carbon Tetrachloride	4.72	117	21722	10.55	ppb	100
46) Tert Amyl Methyl Ether	5.27	73	7355	8.85	ppb	100
48) 1,2-DCA	5.05	62	19791	10.02	ppb	100
49) Benzene	5.01	78	45851	9.42	ppb	100
50) TCE	5.90	130	15785	10.17	ppb	100

(#) = qualifier out of range (m) = manual integration
 1023L15.D L1023W.M Wed Nov 20 14:07:43 2019

Data File : M:\LOKI\DATA\191023\1023L15.D
 Acq On : 23 Oct 19 21:53
 Sample : 10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 11
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	61171	119.80	ppb	100
52) 1,2-Dichloropropane	6.17	63	11911	9.64	ppb	100
53) Bromodichloromethane	6.54	83	19876	10.22	ppb	100
54) Methyl Cyclohexane	6.12	83	11767	9.17	ppb	100
55) Dibromomethane	6.30	93	8969	9.34	ppb	100
57) MIBK (methyl isobutyl ket	7.32	43	5900	9.02	ppb	100
58) 1-Bromo-2-chloroethane	6.87	63	15727	10.28	ppb	100
59) Cis-1,3-Dichloropropene	7.09	75	15887	10.02	ppb	100
60) Toluene	7.46	91	46253	9.93	ppb	100
61) Trans-1,3-Dichloropropene	7.75	75	13841	10.00	ppb	100
62) 1,1,2-TCA	7.93	83	10245	10.31	ppb	100
63) 2-Hexanone	8.28	43	1763	7.54	ppb	100
66) 1,2-EDB	8.45	107	11995	10.32	ppb	100
67) Tetrachloroethene	8.07	166	16035	9.24	ppb	100
68) 1-Chlorohexane	9.06	91	10343	9.75	ppb	100
69) 1,1,1,2-Tetrachloroethane	9.13	131	16000	10.22	ppb	100
70) m&p-Xylene	9.31	91	65270	17.72	ppb	100
71) o-Xylene	9.73	106	16367	9.43	ppb	100
72) Styrene	9.75	104	24492	8.34	ppb	100
74) 1,3-Dichloropropane	8.11	76	17357	9.55	ppb	100
75) Dibromochloromethane	8.35	129	16851	9.94	ppb	100
76) Chlorobenzene	9.02	112	35079	9.47	ppb	100
77) Ethylbenzene	9.17	91	41590	9.53	ppb	100
78) Bromoform	9.91	173	12341	10.04	ppb	100
80) Isopropylbenzene	10.15	105	21528	9.14	ppb	100
81) 1,1,2,2-Tetrachloroethane	10.47	83	15943	11.55	ppb	100
82) 1,2,3-Trichloropropane	10.50	110	5543	11.21	ppb	100
83) t-1,4-Dichloro-2-Butene	10.54	53	1827	10.97	ppb	100
84) Bromobenzene	10.43	156	15551	9.78	ppb	100
85) n-Propylbenzene	10.59	91	44823	9.70	ppb	100
86) 4-Ethyltoluene	10.72	105	36081	9.08	ppb	100
87) 2-Chlorotoluene	10.66	91	16339	9.10	ppb	100
88) 1,3,5-Trimethylbenzene	10.80	105	33536	9.85	ppb	100
89) 4-Chlorotoluene	10.78	126	7129	10.41	ppb	100
90) Tert-Butylbenzene	11.14	119	27789	9.40	ppb	100
91) 1,2,4-Trimethylbenzene	11.19	105	29772	8.89	ppb	100
92) Sec-Butylbenzene	11.38	105	38945	9.78	ppb	100
93) p-Isopropyltoluene	11.54	119	38751	9.64	ppb	100
94) Benzyl Chloride	11.72	91	9084	8.87	ppb	100
95) 1,3-DCB	11.46	146	26552	10.33	ppb	100
96) 1,4-DCB	11.56	146	29385	9.47	ppb	100
97) n-Butylbenzene	11.99	91	24773	9.54	ppb	100
98) 1,2-DCB	11.95	146	24672	9.55	ppb	100
99) Hexachloroethane	12.23	201	8173	10.26	ppb	100
100) 1,2-Dibromo-3-chloropropan	12.79	75	1995	10.27	ppb	100
101) 1,2,4-Trichlorobenzene	13.69	180	7118	9.02	ppb	100
102) Hexachlorobutadiene	13.90	223	1991	9.21	ppb	100
103) Naphthalene	13.95	128	10870	9.67	ppb	100
104) 1,2,3-Trichlorobenzene	14.21	182	4112	9.47	ppb	100

Quantitation Report

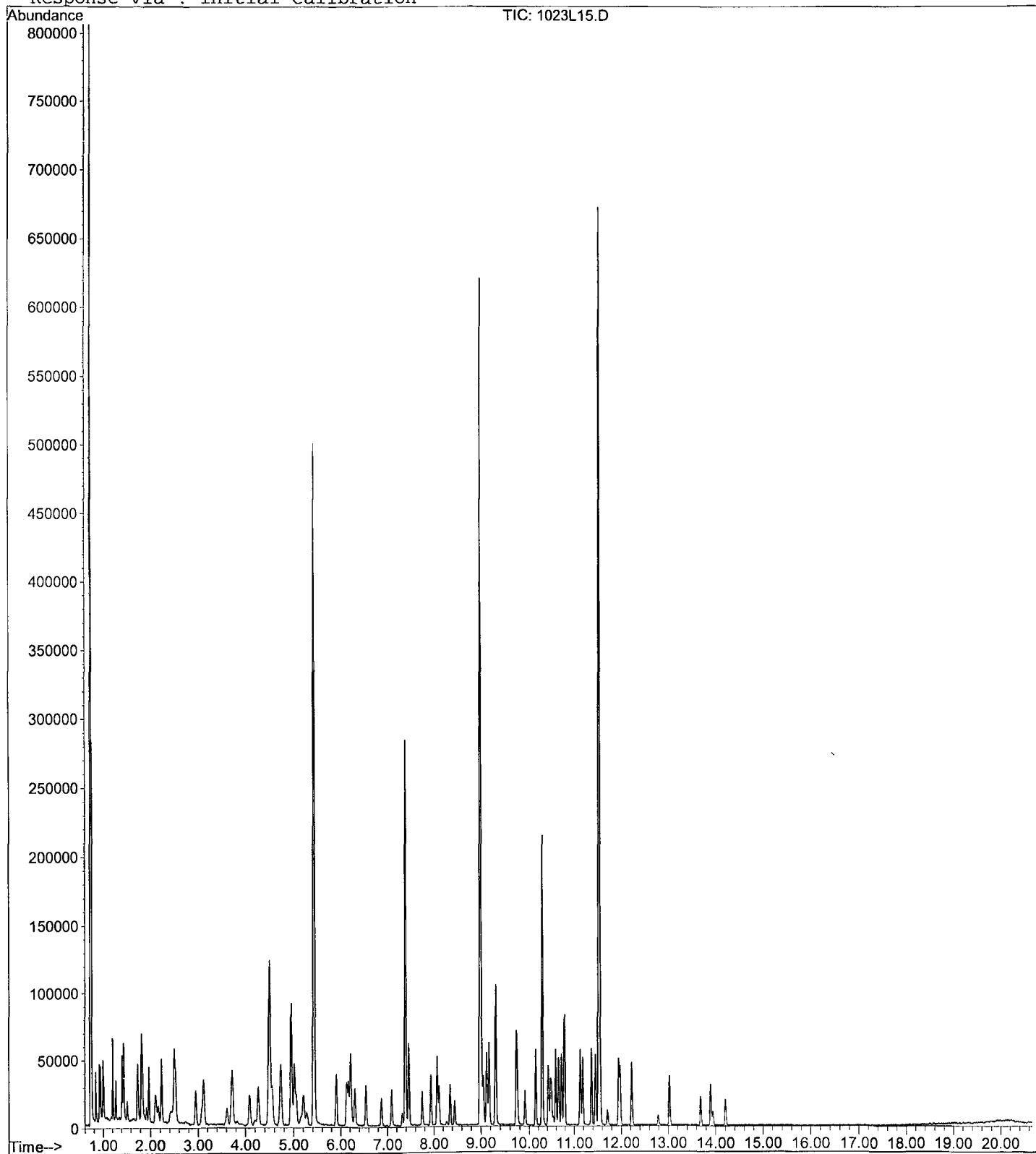
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	234944	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	152485	48.86	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.420%	
44) 1,2-DCA-D4(S)	4.95	65	165297	49.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	197.164%	
65) Toluene-D8(S)	7.38	98	454363	53.15	ppb	0.00
Spiked Amount	25.000		Recovery	=	212.600%	
73) 4-Bromofluorobenzene(S)	10.29	95	166667	55.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	220.168%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	11912	20.54	ppb	80
4) Freon 114	0.91	85	23048	21.66	ppb	98
5) Chloromethane	0.94	50	33644	20.25	ppb	99
6) Vinyl chloride	1.01	62	34944	18.74	ppb	92
8) Bromomethane	1.21	94	40662	18.54	ppb	99
9) Chloroethane	1.28	64	28290	19.58	ppb	98
10) Dichlorofluoromethane	1.41	67	63509	17.70	ppb	94
11) Trichlorofluoromethane	1.45	103	42093	19.69	ppb	92
13) Acrolein	1.75	56	25250	135.25	ppb	88
14) Acetone	1.88	43	11684	20.81	ppb	91
15) Freon-113	1.84	101	30336	18.05	ppb	94
16) 1,1-DCE	1.82	96	28582	20.74	ppb	92
17) t-Butanol	2.45	59	25200	155.07	ppb	98
19) Acetonitrile	2.11	41	40237	141.05	ppb	94
20) Methyl Acetate	2.17	43	26178	19.94	ppb	91
21) Iodomethane	1.92	142	24387	18.55	ppb	95
22) Acrylonitrile	2.47	53	15011	21.91	ppb	# 79
23) Methylene chloride	2.23	84	36847	21.60	ppb	100
24) Carbon disulfide	1.97	76	57128	18.12	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	67952	18.11	ppb	94
26) Trans-1,2-DCE	2.50	96	34415	21.40	ppb	96
27) Diisopropyl Ether	3.12	45	64802	18.80	ppb	91
29) 1,1-DCA	2.95	63	48492	18.05	ppb	94
30) Vinyl Acetate	3.12	45	64802	18.80	ppb	91
31) Ethyl tert Butyl Ether	3.61	59	22768	18.50	ppb	97
32) MEK (2-Butanone)	3.82	43	2904	18.46	ppb	90
33) Cis-1,2-DCE	3.73	96	29262	20.68	ppb	94
34) 2,2-Dichloropropane	3.72	77	38070	19.47	ppb	# 90
37) Chloroform	4.27	83	54671	19.35	ppb	92
38) Bromochloromethane	4.09	128	17202	18.28	ppb	# 69
40) 1,1,1-TCA	4.48	97	47649	19.65	ppb	98
41) Cyclohexane	4.56	41	16617	19.29	ppb	97
42) 1,1-Dichloropropene	4.73	75	29030	20.05	ppb	94
43) 2,2,4-Trimethylpentane	5.20	57	48757	20.47	ppb	88
45) Carbon Tetrachloride	4.72	117	44086	20.53	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	16529	19.07	ppb	# 75
48) 1,2-DCA	5.06	62	39402	19.13	ppb	95
49) Benzene	5.01	78	98352	19.38	ppb	98
50) TCE	5.90	130	30073	18.57	ppb	88

(#) = qualifier out of range (m) = manual integration
 1023L16.D L1023W.M Wed Nov 20 14:07:45 2019

Data File : M:\LOKI\DATA\191023\1023L16.D
 Acq On : 23 Oct 19 22:21
 Sample : 20ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 12
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	80112	150.44	ppb	97
52) 1,2-Dichloropropane	6.17	63	25489	19.78	ppb	96
53) Bromodichloromethane	6.54	83	39689	19.56	ppb	99
54) Methyl Cyclohexane	6.13	83	24258	18.13	ppb	99
55) Dibromomethane	6.30	93	19267	19.24	ppb	79
57) MIBK (methyl isobutyl ket	7.32	43	12116	17.80	ppb	98
58) 1-Bromo-2-chloroethane	6.87	63	32326	20.27	ppb	97
59) Cis-1,3-Dichloropropene	7.09	75	31179	18.85	ppb	98
60) Toluene	7.45	91	102526	21.11	ppb	95
61) Trans-1,3-Dichloropropene	7.75	75	30964	21.45	ppb	100
62) 1,1,2-TCA	7.94	83	21941	21.16	ppb	97
63) 2-Hexanone	8.27	43	5861	22.05	ppb	# 66
66) 1,2-EDB	8.44	107	24227	19.95	ppb	# 81
67) Tetrachloroethene	8.07	166	35093	19.35	ppb	95
68) 1-Chlorohexane	9.05	91	22487	20.28	ppb	93
69) 1,1,1,2-Tetrachloroethane	9.12	131	32557	20.80	ppb	92
70) m&p-Xylene	9.31	91	157688	38.10	ppb	98
71) o-Xylene	9.73	106	36971	20.39	ppb	95
72) Styrene	9.74	104	62888	18.26	ppb	94
74) 1,3-Dichloropropane	8.11	76	37845	19.93	ppb	99
75) Dibromochloromethane	8.35	129	32738	18.48	ppb	83
76) Chlorobenzene	9.02	112	73014	18.87	ppb	92
77) Ethylbenzene	9.17	91	99134	21.74	ppb	91
78) Bromoform	9.91	173	26260	20.44	ppb	88
80) Isopropylbenzene	10.15	105	53768	19.51	ppb	98
81) 1,1,2,2-Tetrachloroethane	10.47	83	31720	21.57	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	10660	18.67	ppb	93
83) t-1,4-Dichloro-2-Butene	10.53	53	3846	19.73	ppb	77
84) Bromobenzene	10.43	156	33632	18.07	ppb	94
85) n-Propylbenzene	10.59	91	103441	18.44	ppb	96
86) 4-Ethyltoluene	10.72	105	91242	18.36	ppb	97
87) 2-Chlorotoluene	10.65	91	42412	20.19	ppb	88
88) 1,3,5-Trimethylbenzene	10.79	105	88124	22.12	ppb	99
89) 4-Chlorotoluene	10.78	126	17536	21.88	ppb	96
90) Tert-Butylbenzene	11.14	119	77678	22.45	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	75898	17.81	ppb	95
92) Sec-Butylbenzene	11.37	105	96648	20.75	ppb	100
93) p-Isopropyltoluene	11.54	119	95037	20.21	ppb	98
94) Benzyl Chloride	11.71	91	21054	17.56	ppb	95
95) 1,3-DCB	11.46	146	58162	19.33	ppb	97
96) 1,4-DCB	11.56	146	64064	17.64	ppb	97
97) n-Butylbenzene	11.98	91	60083	19.77	ppb	98
98) 1,2-DCB	11.95	146	52173	17.25	ppb	95
99) Hexachloroethane	12.23	201	18679	19.19	ppb	92
100) 1,2-Dibromo-3-chloropropan	12.79	75	4332	18.83	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	19289	18.99	ppb	84
102) Hexachlorobutadiene	13.90	223	4287	15.96	ppb	93
103) Naphthalene	13.94	128	26408	17.95	ppb	94
104) 1,2,3-Trichlorobenzene	14.20	182	9469	15.95	ppb	95

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

Quantitation Report

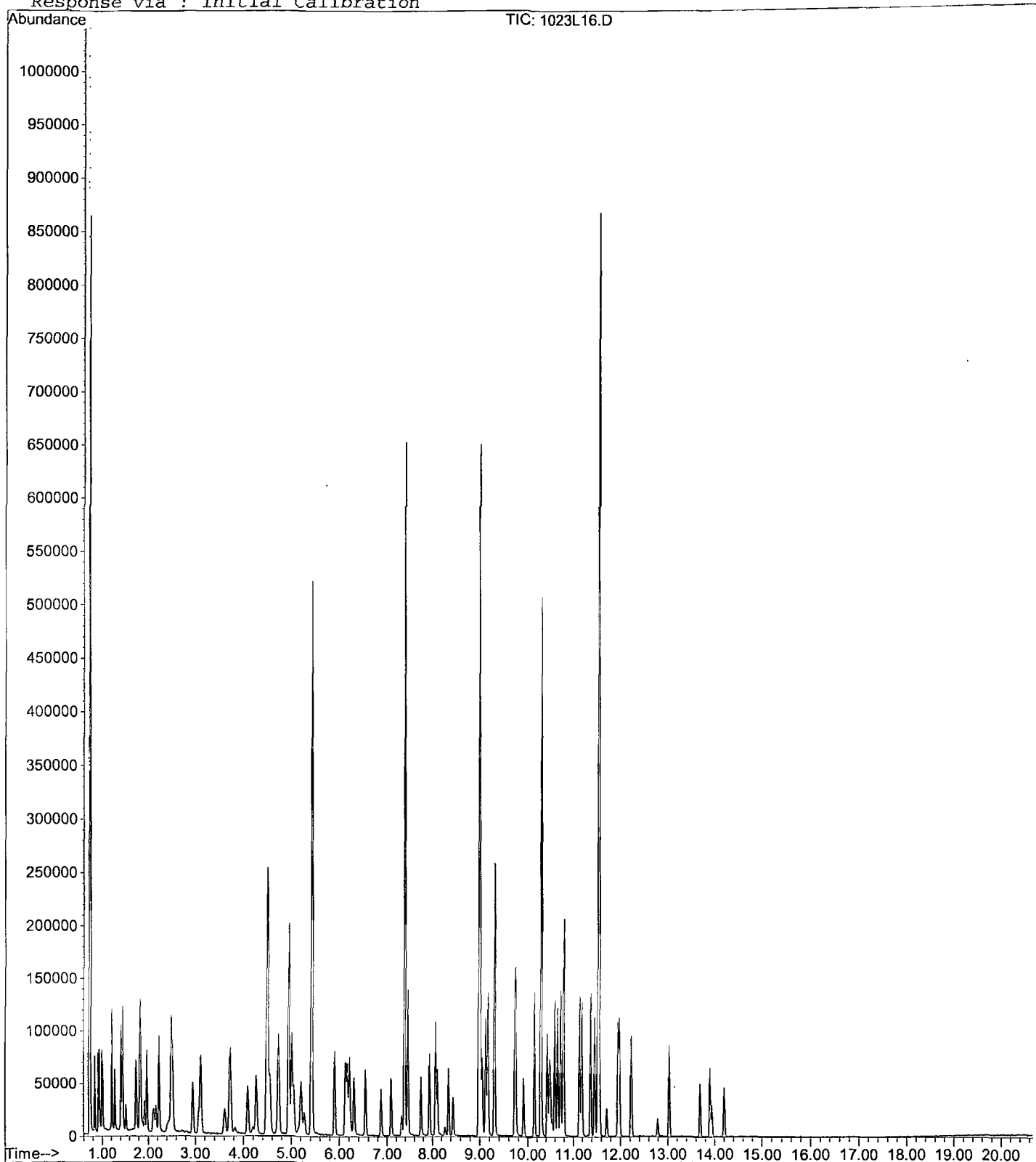
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	232256	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	154619	48.87	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.492%	
44) 1,2-DCA-D4(S)	4.95	65	164006	48.25	ppb	0.00
Spiked Amount	25.000		Recovery	=	192.992%	
65) Toluene-D8(S)	7.38	98	466931	55.25	ppb	0.00
Spiked Amount	25.000		Recovery	=	221.008%	
73) 4-Bromofluorobenzene(S)	10.29	95	177941	59.45	ppb	0.00
Spiked Amount	25.000		Recovery	=	237.784%	
Target Compounds						
3) Dichlorodifluoromethane	0.84	87	21976	37.34	ppb	Qvalue 87
4) Freon 114	0.91	85	43518	41.65	ppb	93
5) Chloromethane	0.94	50	63203	38.03	ppb	98
6) Vinyl chloride	1.01	62	66088	34.96	ppb	95
8) Bromomethane	1.21	94	71318	32.40	ppb	99
9) Chloroethane	1.27	64	50642	34.75	ppb	99
10) Dichlorofluoromethane	1.41	67	125806	34.58	ppb	99
11) Trichlorofluoromethane	1.45	103	74304	34.30	ppb	99
13) Acrolein	1.74	56	32822	173.45	ppb	# 71
14) Acetone	1.88	43	21286	41.11	ppb	93
15) Freon-113	1.84	101	57076	33.51	ppb	92
16) 1,1-DCE	1.82	96	56733	41.68	ppb	95
17) t-Butanol	2.43	59	34928	211.61	ppb	99
19) Acetonitrile	2.11	41	44080	152.44	ppb	90
20) Methyl Acetate	2.16	43	52217	39.89	ppb	86
21) Iodomethane	1.92	142	57977	41.21	ppb	99
22) Acrylonitrile	2.47	53	28390	43.17	ppb	92
23) Methylene chloride	2.23	84	69292	41.64	ppb	92
24) Carbon disulfide	1.97	76	115976	36.62	ppb	95
25) Methyl t-butyl ether (MtBE)	2.52	73	135915	35.74	ppb	97
26) Trans-1,2-DCE	2.49	96	65403	40.92	ppb	96
27) Diisopropyl Ether	3.11	45	141259	40.44	ppb	95
29) 1,1-DCA	2.95	63	123114	45.22	ppb	94
30) Vinyl Acetate	3.11	45	141259	40.44	ppb	95
31) Ethyl tert Butyl Ether	3.61	59	46570	37.33	ppb	99
32) MEK (2-Butanone)	3.82	43	6170	37.93	ppb	83
33) Cis-1,2-DCE	3.73	96	57990	40.98	ppb	95
34) 2,2-Dichloropropane	3.71	77	74598	37.63	ppb	93
37) Chloroform	4.27	83	104371	36.45	ppb	97
38) Bromochloromethane	4.09	128	35586	37.31	ppb	# 63
40) 1,1,1-TCA	4.49	97	92639	37.69	ppb	97
41) Cyclohexane	4.55	41	33874	38.70	ppb	93
42) 1,1-Dichloropropene	4.74	75	57129	38.93	ppb	96
43) 2,2,4-Trimethylpentane	5.20	57	98818	40.93	ppb	# 82
45) Carbon Tetrachloride	4.72	117	83207	38.23	ppb	93
46) Tert Amyl Methyl Ether	5.27	73	35618	40.55	ppb	# 76
48) 1,2-DCA	5.06	62	78306	37.51	ppb	97
49) Benzene	5.01	78	197673	38.43	ppb	99
50) TCE	5.90	130	60966	37.14	ppb	# 88

(#) = qualifier out of range (m) = manual integration
 1023L17.D L1023W.M Wed Nov 20 14:07:48 2019

Data File : M:\LOKI\DATA\191023\1023L17.D
 Acq On : 23 Oct 19 22:50
 Sample : 40ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 13
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	96879	179.48	ppb	100
52) 1,2-Dichloropropane	6.17	63	51543	39.46	ppb	97
53) Bromodichloromethane	6.54	83	79986	38.89	ppb	100
54) Methyl Cyclohexane	6.13	83	54839	40.44	ppb	91
55) Dibromomethane	6.30	93	38978	38.39	ppb	84
57) MIBK (methyl isobutyl ket	7.32	43	28419	41.26	ppb	99
58) 1-Bromo-2-chloroethane	6.87	63	65748	40.66	ppb	99
59) Cis-1,3-Dichloropropene	7.09	75	65769	39.23	ppb	99
60) Toluene	7.45	91	210212	42.70	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	64204	43.88	ppb	97
62) 1,1,2-TCA	7.93	83	41949	39.92	ppb	96
63) 2-Hexanone	8.27	43	10209	37.24	ppb	# 85
66) 1,2-EDB	8.45	107	50421	41.99	ppb	85
67) Tetrachloroethene	8.07	166	65893	36.75	ppb	96
68) 1-Chlorohexane	9.05	91	48711	44.44	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.13	131	63915	42.26	ppb	96
70) m&p-Xylene	9.30	91	338863	80.27	ppb	96
71) o-Xylene	9.73	106	82411	45.97	ppb	89
72) Styrene	9.74	104	143659	40.18	ppb	98
74) 1,3-Dichloropropane	8.11	76	75287	40.11	ppb	100
75) Dibromochloromethane	8.35	129	69172	39.51	ppb	96
76) Chlorobenzene	9.02	112	145816	38.12	ppb	93
77) Ethylbenzene	9.17	91	208273	46.19	ppb	94
78) Bromoform	9.91	173	53731	42.30	ppb	90
80) Isopropylbenzene	10.15	105	118712	43.22	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	62668	45.48	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	22708	40.34	ppb	97
83) t-1,4-Dichloro-2-Butene	10.53	53	8331	42.88	ppb	86
84) Bromobenzene	10.43	156	70104	37.80	ppb	90
85) n-Propylbenzene	10.59	91	233924	40.95	ppb	97
86) 4-Ethyltoluene	10.72	105	211346	41.25	ppb	96
87) 2-Chlorotoluene	10.65	91	92128	44.00	ppb	90
88) 1,3,5-Trimethylbenzene	10.79	105	199524	50.26	ppb	98
89) 4-Chlorotoluene	10.78	126	36464	45.66	ppb	91
90) Tert-Butylbenzene	11.14	119	147955	42.90	ppb	96
91) 1,2,4-Trimethylbenzene	11.19	105	180420	40.66	ppb	99
92) Sec-Butylbenzene	11.37	105	219025	47.18	ppb	97
93) p-Isopropyltoluene	11.54	119	212481	45.34	ppb	96
94) Benzyl Chloride	11.71	91	41921	35.08	ppb	96
95) 1,3-DCB	11.46	146	128229	42.75	ppb	94
96) 1,4-DCB	11.56	146	139675	38.58	ppb	98
97) n-Butylbenzene	11.98	91	142488	47.03	ppb	95
98) 1,2-DCB	11.95	146	114832	38.10	ppb	94
99) Hexachloroethane	12.23	201	35079	35.37	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	9108	39.46	ppb	91
101) 1,2,4-Trichlorobenzene	13.69	180	47535	40.77	ppb	81
102) Hexachlorobutadiene	13.90	223	10244	36.63	ppb	# 71
103) Naphthalene	13.94	128	75231	41.09	ppb	99
104) 1,2,3-Trichlorobenzene	14.20	182	23960	36.24	ppb	96

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

Quantitation Report

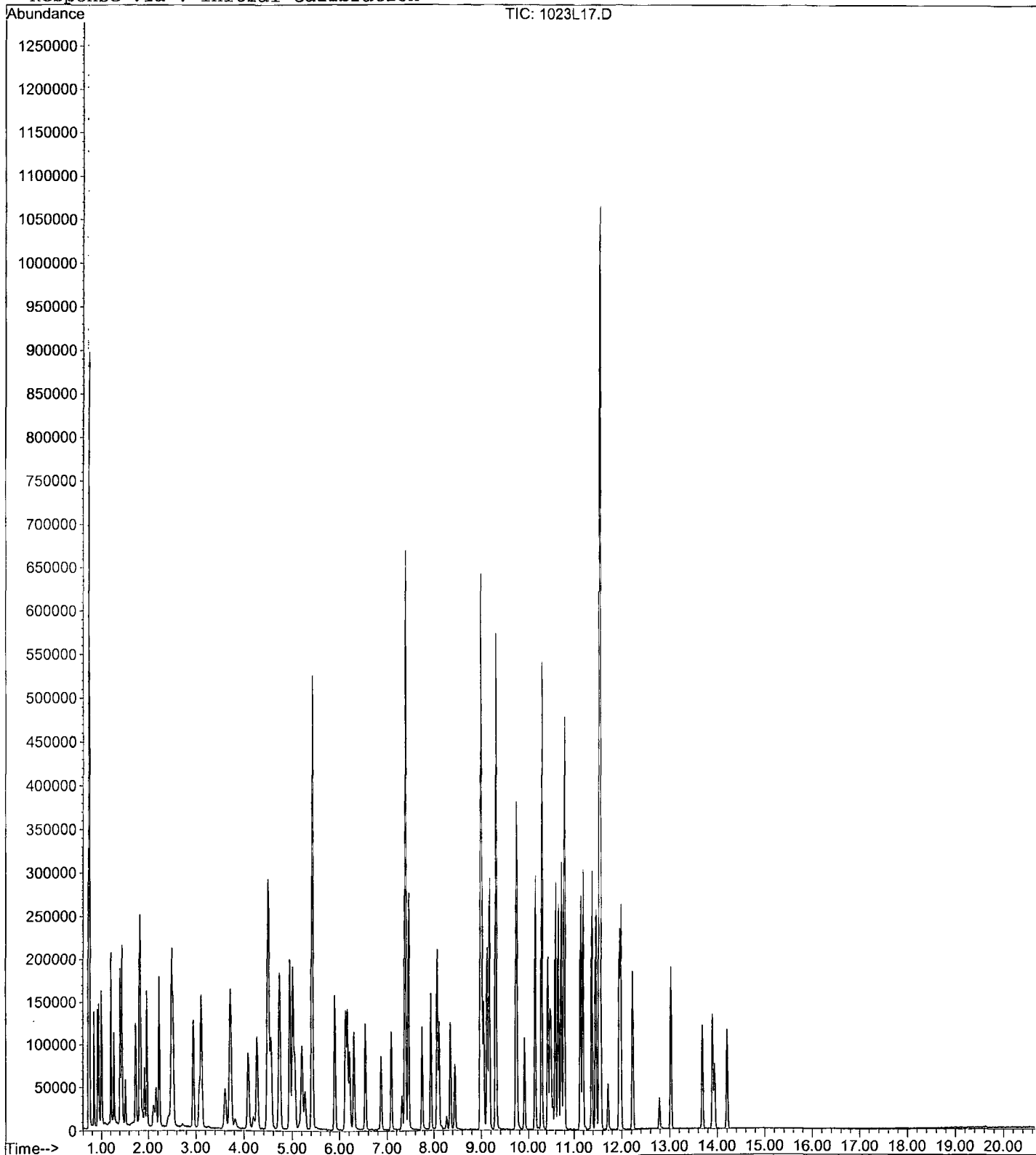
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant. Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	239360	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	281593	89.93	ppb	0.00
Spiked Amount	25.000		Recovery	=	359.704%	
44) 1,2-DCA-D4(S)	4.95	65	301257	89.54	ppb	0.00
Spiked Amount	25.000		Recovery	=	358.156%	
65) Toluene-D8(S)	7.38	98	920813	105.73	ppb	0.00
Spiked Amount	25.000		Recovery	=	422.904%	
73) 4-Bromofluorobenzene(S)	10.29	95	349610	113.33	ppb	0.00
Spiked Amount	25.000		Recovery	=	453.320%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	58858	100.92	ppb	89
4) Freon 114	0.91	85	100326	99.02	ppb	95
5) Chloromethane	0.94	50	164075	100.69	ppb	99
6) Vinyl chloride	1.01	62	154688	82.68	ppb	96
8) Bromomethane	1.20	94	171941	79.53	ppb	99
9) Chloroethane	1.27	64	109740	76.35	ppb	99
10) Dichlorofluoromethane	1.41	67	276740	76.86	ppb	100
11) Trichlorofluoromethane	1.44	103	203432	94.87	ppb	95
13) Acrolein	1.74	56	38124	203.55	ppb	# 29
14) Acetone	1.88	43	47886	99.38	ppb	99
15) Freon-113	1.83	101	137071	81.30	ppb	95
16) 1,1-DCE	1.82	96	131579	99.16	ppb	98
17) t-Butanol	2.42	59	56335	344.08	ppb	96
19) Acetonitrile	2.10	41	46267	161.66	ppb	97
20) Methyl Acetate	2.16	43	112199	87.37	ppb	95
21) Iodomethane	1.92	142	169897	118.64	ppb	94
22) Acrylonitrile	2.47	53	61987	98.42	ppb	89
23) Methylene chloride	2.23	84	159135	99.03	ppb	97
24) Carbon disulfide	1.97	76	266304	85.38	ppb	98
25) Methyl t-butyl ether (MtBE)	2.52	73	320920	85.25	ppb	96
26) Trans-1,2-DCE	2.49	96	155132	99.35	ppb	98
27) Diisopropyl Ether	3.12	45	344132	99.52	ppb	99
29) 1,1-DCA	2.95	63	269292	99.93	ppb	94
30) Vinyl Acetate	3.12	45	344132	99.52	ppb	99
31) Ethyl tert Butyl Ether	3.62	59	126915	102.78	ppb	95
32) MEK (2-Butanone)	3.82	43	16476	101.15	ppb	91
33) Cis-1,2-DCE	3.73	96	138211	99.50	ppb	92
34) 2,2-Dichloropropane	3.71	77	174471	88.92	ppb	95
37) Chloroform	4.27	83	242258	85.48	ppb	94
38) Bromochloromethane	4.09	128	77334	81.92	ppb	# 65
40) 1,1,1-TCA	4.48	97	220083	90.47	ppb	99
41) Cyclohexane	4.55	41	87304	100.63	ppb	81
42) 1,1-Dichloropropene	4.74	75	148550	102.27	ppb	95
43) 2,2,4-Trimethylpentane	5.20	57	267273	111.84	ppb	# 78
45) Carbon Tetrachloride	4.72	117	199279	92.51	ppb	98
46) Tert Amyl Methyl Ether	5.27	73	102663	118.09	ppb	# 86
48) 1,2-DCA	5.05	62	179804	87.03	ppb	98
49) Benzene	5.01	78	469758	92.26	ppb	98
50) TCE	5.91	130	147267	90.65	ppb	91

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

Data File : M:\LOKI\DATA\191023\1023L18.D
 Acq On : 23 Oct 19 23:18
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 14
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:12:55 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	116946	218.89	ppb	98
52) 1,2-Dichloropropane	6.17	63	119334	92.30	ppb	97
53) Bromodichloromethane	6.54	83	184598	90.67	ppb	96
54) Methyl Cyclohexane	6.13	83	146085	108.84	ppb	89
55) Dibromomethane	6.30	93	88392	87.96	ppb	83
57) MIBK (methyl isobutyl ket	7.32	43	70099	102.90	ppb	95
58) 1-Bromo-2-chloroethane	6.87	63	151148	94.45	ppb	95
59) Cis-1,3-Dichloropropene	7.09	75	164269	99.00	ppb	94
60) Toluene	7.45	91	512676	105.21	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	160691	110.95	ppb	96
62) 1,1,2-TCA	7.93	83	95909	92.21	ppb	89
63) 2-Hexanone	8.27	43	27810	100.90	ppb	# 86
66) 1,2-EDB	8.45	107	121094	97.86	ppb	88
67) Tetrachloroethene	8.07	166	163999	88.75	ppb	96
68) 1-Chlorohexane	9.06	91	134962	119.47	ppb	96
69) 1,1,1,2-Tetrachloroethane	9.12	131	152266	98.96	ppb	89
70) m&p-Xylene	9.31	91	886987	200.51	ppb	97
71) o-Xylene	9.73	106	219398	118.75	ppb	94
72) Styrene	9.74	104	378918	100.43	ppb	98
74) 1,3-Dichloropropane	8.11	76	176562	91.28	ppb	100
75) Dibromochloromethane	8.35	129	161221	89.35	ppb	93
76) Chlorobenzene	9.02	112	356125	90.34	ppb	94
77) Ethylbenzene	9.17	91	538282	115.84	ppb	95
78) Bromoform	9.91	173	121836	93.08	ppb	89
80) Isopropylbenzene	10.15	105	323840	109.56	ppb	96
81) 1,1,2,2-Tetrachloroethane	10.47	83	140032	97.42	ppb	96
82) 1,2,3-Trichloropropane	10.50	110	46087	76.42	ppb	92
83) t-1,4-Dichloro-2-Butene	10.54	53	20073	96.01	ppb	100
84) Bromobenzene	10.43	156	171822	86.09	ppb	96
85) n-Propylbenzene	10.59	91	620871	99.95	ppb	94
86) 4-Ethyltoluene	10.72	105	559675	99.93	ppb	96
87) 2-Chlorotoluene	10.65	91	230269	102.20	ppb	92
88) 1,3,5-Trimethylbenzene	10.79	105	507278	118.73	ppb	100
89) 4-Chlorotoluene	10.78	126	98736	114.89	ppb	92
90) Tert-Butylbenzene	11.14	119	412431	111.13	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	488409	100.28	ppb	96
92) Sec-Butylbenzene	11.38	105	593550	118.80	ppb	97
93) p-Isopropyltoluene	11.54	119	573299	113.67	ppb	96
94) Benzyl Chloride	11.72	91	130635	101.58	ppb	94
95) 1,3-DCB	11.46	146	320104	99.18	ppb	92
96) 1,4-DCB	11.56	146	352781	90.55	ppb	99
97) n-Butylbenzene	11.98	91	414547	127.15	ppb	96
98) 1,2-DCB	11.95	146	305584	94.21	ppb	96
99) Hexachloroethane	12.23	201	110613	101.92	ppb	96
100) 1,2-Dibromo-3-chloropropan	12.79	75	25043	100.42	ppb	83
101) 1,2,4-Trichlorobenzene	13.69	180	167192	99.95	ppb	85
102) Hexachlorobutadiene	13.90	223	31392	102.13	ppb	# 78
103) Naphthalene	13.94	128	291902	99.94	ppb	95
104) 1,2,3-Trichlorobenzene	14.21	182	76648	102.24	ppb	91

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

Quantitation Report

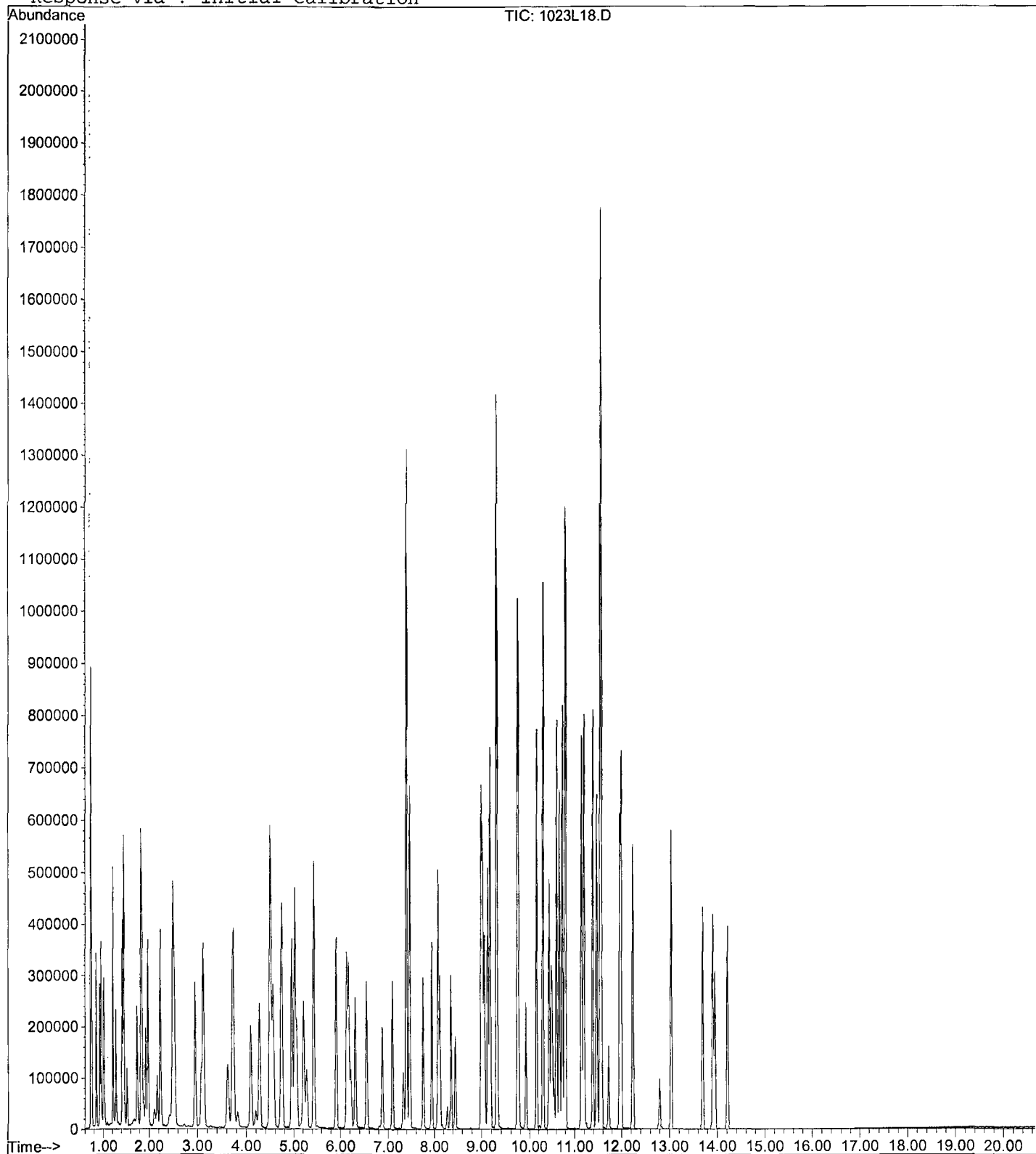
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:13 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/24/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/2019

Data File: 1023L20.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TML	Dichlorodifluoromethane	0.0636	0.0637	0.06	TML	12
2	TML	Freon 114	0.1338	0.1699	27	TML	58 nt
3	TM**L	Chloromethane	0.2092	0.1892	9.6	TM**L	13
4	TM*	Vinyl chloride	0.1839	0.2117	15	TM*	
5	TML	Bromomethane	0.2799	0.2324	17	TML	5.7
6	TML	Chloroethane	0.1659	0.1816	9.4	TML	27 *
7	TM	Dichlorofluoromethane	0.3539	0.3390	4.2	TM	
8	TM	Trichlorofluoromethane	0.2108	0.1987	5.7	TM	
9	TM	Diethyl ether	0.0000	0.0312	0.00	TM	
10	TM	Acrolein	0.0184	0.0198	7.3	TM	
11	TML	Acetone	0.0763	0.0733	4.0	TML	15
12	TM	Freon-113	0.1657	0.1747	5.4	TM	
13	TM*L	1,1-DCE	0.1612	0.1456	9.7	TM*L	1.7
14	TML	t-Butanol	0.0165	0.0133	19	TML	17
15	TM	2-Propanol	0.0000	0.0003	0.00	TM	
16	TM	Acetonitrile	0.0281	0.0211	25	TM	nt
17	TML	Methyl Acetate	0.1524	0.1378	9.5	TML	3.3
18	TML	Iodomethane	0.0834	0.1006	21	TML	12
19	TML	Acrylonitrile	0.0844	0.0793	6.1	TML	5.1
20	TML	Methylene chloride	0.2298	0.1948	15	TML	7.3
21	TML	Carbon disulfide	0.3814	0.3663	4.0	TML	17
22	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3594	2.9	TM	
23	TML	Trans-1,2-DCE	0.1832	0.1659	9.4	TML	0.05
24	TM	Diisopropyl Ether	0.3399	0.3666	7.8	TM	
25	TM**	2,2-Dichloro-1,1,1-trifluoroethane	0.0000	0.0012	0.00	TM**	
26	TM**	1,1-DCA	0.2649	0.2738	3.4	TM**	
27	TM	Vinyl Acetate	0.3399	0.3666	7.8	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1314	8.2	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0170	5.2	TML	12
30	TML	Cis-1,2-DCE	0.1575	0.1350	14	TML	6.4
31	TM	2,2-Dichloropropane	0.1929	0.1844	4.4	TM	
32	TM	2-Methylpentane	0.0000	0.0002	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0735	0.00	TM	
34	TM*	Chloroform	0.2786	0.2542	8.8	TM*	
35	TM	Bromochloromethane	0.0928	0.0883	4.9	TM	
36	TM	1,1,1-TCA	0.2391	0.2222	7.1	TM	
37	TML	Cyclohexane	0.0941	0.1069	14	TML	26 nt
38	TM	1,1-Dichloropropene	0.1428	0.1312	8.1	TM	
39	TM	2,2,4-Trimethylpentane	0.2349	0.2565	9.2	TM	
40	TM	Carbon Tetrachloride	0.2117	0.2206	4.2	TM	

Average

8.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/2019
Instrument: Loki
Cal. Date: 10/23/2019
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Tert Amyl Methyl Ether	0.0855	0.0886	3.7	TM
42	TM	Methylcyclopentane	0.0000	0.0173	0.00	TM
43	TM	1,2-DCA	0.2031	0.1923	5.3	TM
44	TM	Benzene	0.5005	0.4393	12	TM
45	TM	TCE	0.1597	0.1433	10	TM
46	TM	2-Pentanone	0.0525	0.0415	21	TM
47	TM*	1,2-Dichloropropane	0.1271	0.1187	6.6	TM*
48	TM	Bromodichloromethane	0.2001	0.1961	2.0	TM
49	TM	Methyl Cyclohexane	0.1319	0.1482	12	TM
50	TM	Dibromomethane	0.0988	0.0921	6.8	TM
51	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0692	0.93	TML 2.9
52	TM	1-Bromo-2-chloroethane	0.1573	0.1721	9.4	TM
53	TM	Cis-1,3-Dichloropropene	0.1631	0.1506	7.6	TM
54	TM*	Toluene	0.4790	0.4556	4.9	TM*
55	TM	Trans-1,3-Dichloropropene	0.1424	0.1357	4.6	TM
56	TM	1,1,2-TCA	0.1022	0.0950	7.1	TM
57	TML	2-Hexanone	0.0269	0.0282	4.8	TML 12
58	TM	1,2-EDB	0.1292	0.1359	5.1	TM
59	TM	Tetrachloroethene	0.1930	0.1947	0.90	TM
60	TM	1-Chlorohexane	0.1180	0.1316	12	TM
61	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1734	9.0	TML 0.65
62	TML	m&p-Xylene	0.3768	0.3571	5.2	TML 13
63	TM	o-Xylene	0.1930	0.1790	7.3	TM
64	TML	Styrene	0.2916	0.2878	1.3	TML 13
65	TM	1,3-Dichloropropane	0.2020	0.1898	6.0	TM
66	TM	Dibromochloromethane	0.1885	0.1895	0.54	TM
67	TM**	Chlorobenzene	0.4117	0.3876	5.9	TM**
68	TM*	Ethylbenzene	0.4853	0.4916	1.3	TM*
69	TM**	Bromoform	0.1367	0.1339	2.1	TM**
70	TM	Isopropylbenzene	0.5206	0.4731	9.1	TM
71	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.3272	10.0	TM**L 5.2
72	TML	1,2,3-Trichloropropane	0.1211	0.1103	8.9	TML 0.53
73	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0354	3.8	TM
74	TM	Bromobenzene	0.3515	0.3413	2.9	TM
75	TML	n-Propylbenzene	0.9036	0.9575	6.0	TML 6.0
76	TML	4-Ethyltoluene	0.7832	0.8835	13	TML 0.63
77	TM	2-Chlorotoluene	0.3968	0.4020	1.3	TM
78	TML	1,3,5-Trimethylbenzene	0.7524	0.7169	4.7	TML 14
79	TM	4-Chlorotoluene	0.1514	0.1524	0.69	TM
80	TM	Tert-Butylbenzene	0.6536	0.7181	9.9	TM

Average

6.1

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/24/2019
Instrument: Loki
Cal. Date: 10/23/2019
Data File: 1023L20.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	1,2,4-Trimethylbenzene	0.6824	0.6562	3.8	TML	11
82	TM	Sec-Butylbenzene	0.8799	0.9209	4.7	TM	
83	TM	p-Isopropyltoluene	0.8882	0.8730	1.7	TM	
84	TM	Benzyl Chloride	0.2265	0.1811	20	TM	
85	TM	1,3-DCB	0.5684	0.5675	0.16	TM	
86	TM	1,4-DCB	0.6861	0.6376	7.1	TM	
87	TM	n-Butylbenzene	0.5742	0.5498	4.2	TM	
88	TM	1,2-DCB	0.5713	0.5088	11	TM	
89	TML	Hexachloroethane	0.1724	0.1885	9.3	TML	6.7
90	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0462	2.2	TML	7.5
91	TMQ	1,2,4-Trichlorobenzene	0.1848	0.1984	7.3	TMQ	11
92	TML	Hexachlorobutadiene	0.0602	0.0540	10	TML	10
93	TMQ	Naphthalene	0.2958	0.3015	1.9	TMQ	17
94	TML	1,2,3-Trichlorobenzene	0.1086	0.0728	33	TML	19
95							
96							
97							
98							
99							
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115							
116							
117							
118							
119							
120							

Average

8.3

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	242176	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	211264	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	108216	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	74313	24.92	ppb	0.00
Spiked Amount	25.000		Recovery	=	99.692%	
44) 1,2-DCA-D4(S)	4.95	65	76856	23.99	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.960%	
65) Toluene-D8(S)	7.38	98	202484	26.34	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.364%	
73) 4-Bromofluorobenzene(S)	10.29	95	69631	25.57	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.292%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	0.84	87	6167	11.16	ppb	92
4) Freon 114	0.91	85	16457	15.81	ppb	98
5) Chloromethane	0.94	50	18325	11.30	ppb	97
6) Vinyl chloride	1.01	62	20504	11.51	ppb	94
8) Bromomethane	1.21	94	22516	10.57	ppb	96
9) Chloroethane	1.27	64	17588	12.66	ppb	98
10) Dichlorofluoromethane	1.41	67	32835	9.58	ppb	98
11) Trichlorofluoromethane	1.45	103	19247	9.43	ppb	88
13) Acrolein	1.74	56	23915	134.10	ppb	# 100
14) Acetone	1.87	43	7099	11.54	ppb	95
15) Freon-113	1.84	101	16924	10.54	ppb	90
16) 1,1-DCE	1.82	96	14102	10.17	ppb	93
17) t-Butanol	2.41	59	16098	104.09	ppb	99
19) Acetonitrile	2.10	41	25491	93.54	ppb	94
20) Methyl Acetate	2.16	43	13350	10.33	ppb	86
21) Iodomethane	1.92	142	9741	8.75	ppb	97
22) Acrylonitrile	2.47	53	7680	10.51	ppb	# 70
23) Methylene chloride	2.23	84	18868	10.73	ppb	95
24) Carbon disulfide	1.97	76	35488	11.67	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	34814	9.71	ppb	95
26) Trans-1,2-DCE	2.49	96	16072	9.99	ppb	96
27) Diisopropyl Ether	3.11	45	35508	10.78	ppb	98
29) 1,1-DCA	2.95	63	26522	10.34	ppb	91
30) Vinyl Acetate	3.11	45	35508	10.78	ppb	98
31) Ethyl tert Butyl Ether	3.61	59	12726	10.82	ppb	97
32) MEK (2-Butanone)	3.81	43	1647	11.25	ppb	85
33) Cis-1,2-DCE	3.73	96	13075	9.36	ppb	95
34) 2,2-Dichloropropane	3.72	77	17859	9.56	ppb	97
37) Chloroform	4.27	83	24623	9.12	ppb	95
38) Bromochloromethane	4.09	128	8551	9.51	ppb	73
40) 1,1,1-TCA	4.48	97	21529	9.29	ppb	95
41) Cyclohexane	4.55	41	10355	12.61	ppb	95
42) 1,1-Dichloropropene	4.74	75	12713	9.19	ppb	98
43) 2,2,4-Trimethylpentane	5.20	57	24847	10.92	ppb	95
45) Carbon Tetrachloride	4.72	117	21365	10.42	ppb	88
46) Tert Amyl Methyl Ether	5.27	73	8587	10.37	ppb	# 87
48) 1,2-DCA	5.06	62	18628	9.47	ppb	100
49) Benzene	5.01	78	42555	8.78	ppb	91
50) TCE	5.90	130	13885	8.98	ppb	# 88

(#) = qualifier out of range (m) = manual integration
 1023L20.D L1023W.M Wed Nov 20 14:07:52 2019

Data File : M:\LOKI\DATA\191023\1023L20.D
 Acq On : 24 Oct 19 00:15
 Sample : (SS)10ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 16
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	50296	98.87	ppb	99
52) 1,2-Dichloropropane	6.16	63	11499	9.34	ppb	97
53) Bromodichloromethane	6.54	83	18992	9.80	ppb	97
54) Methyl Cyclohexane	6.13	83	14354	11.23	ppb	92
55) Dibromomethane	6.30	93	8920	9.32	ppb	85
57) MIBK (methyl isobutyl ket	7.31	43	6705	10.29	ppb	97
58) 1-Bromo-2-chloroethane	6.87	63	16669	10.94	ppb	92
59) Cis-1,3-Dichloropropene	7.08	75	14591	9.24	ppb	99
60) Toluene	7.45	91	44134	9.51	ppb	96
61) Trans-1,3-Dichloropropene	7.75	75	13150	9.54	ppb	90
62) 1,1,2-TCA	7.94	83	9202	9.29	ppb	90
63) 2-Hexanone	8.27	43	2731	11.22	ppb	# 73
66) 1,2-EDB	8.45	107	11482	10.51	ppb	# 93
67) Tetrachloroethene	8.07	166	16456	10.09	ppb	91
68) 1-Chlorohexane	9.05	91	11120	11.15	ppb	# 85
69) 1,1,1,2-Tetrachloroethane	9.13	131	14657	9.94	ppb	90
70) m&p-Xylene	9.30	91	60351	17.47	ppb	97
71) o-Xylene	9.73	106	15124	9.27	ppb	95
72) Styrene	9.74	104	24322	8.73	ppb	91
74) 1,3-Dichloropropane	8.11	76	16040	9.40	ppb	99
75) Dibromochloromethane	8.35	129	16012	10.05	ppb	88
76) Chlorobenzene	9.02	112	32755	9.41	ppb	91
77) Ethylbenzene	9.17	91	41541	10.13	ppb	96
78) Bromoform	9.91	173	11312	9.79	ppb	93
80) Isopropylbenzene	10.14	105	20480	9.09	ppb	92
81) 1,1,2,2-Tetrachloroethane	10.47	83	14162	10.52	ppb	97
82) 1,2,3-Trichloropropane	10.50	110	4774	10.05	ppb	92
83) t-1,4-Dichloro-2-Butene	10.53	53	1533	9.62	ppb	# 72
84) Bromobenzene	10.43	156	14772	9.71	ppb	88
85) n-Propylbenzene	10.59	91	41447	9.40	ppb	90
86) 4-Ethyltoluene	10.72	105	38245	9.94	ppb	91
87) 2-Chlorotoluene	10.65	91	17403	10.13	ppb	87
88) 1,3,5-Trimethylbenzene	10.80	105	31032	8.62	ppb	98
89) 4-Chlorotoluene	10.78	126	6597	10.07	ppb	93
90) Tert-Butylbenzene	11.14	119	31086	10.99	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	28403	8.87	ppb	94
92) Sec-Butylbenzene	11.38	105	39863	10.47	ppb	100
93) p-Isopropyltoluene	11.54	119	37788	9.83	ppb	98
94) Benzyl Chloride	11.71	91	7838	7.99	ppb	90
95) 1,3-DCB	11.46	146	24567	9.98	ppb	94
96) 1,4-DCB	11.56	146	27600	9.29	ppb	98
97) n-Butylbenzene	11.98	91	23799	9.58	ppb	95
98) 1,2-DCB	11.95	146	22023	8.91	ppb	99
99) Hexachloroethane	12.23	201	8159	10.67	ppb	94
100) 1,2-Dibromo-3-chloropropan	12.79	75	2001	10.75	ppb	94
101) 1,2,4-Trichlorobenzene	13.69	180	8588	11.10	ppb	76
102) Hexachlorobutadiene	13.90	223	2339	11.04	ppb	# 57
103) Naphthalene	13.94	128	13049	11.74	ppb	97
104) 1,2,3-Trichlorobenzene	14.21	182	3150	8.13	ppb	# 79

(#) = qualifier out of range (m) = manual integration
 1023L20.D L1023W.M Wed Nov 20 14:07:52 2019

Quantitation Report

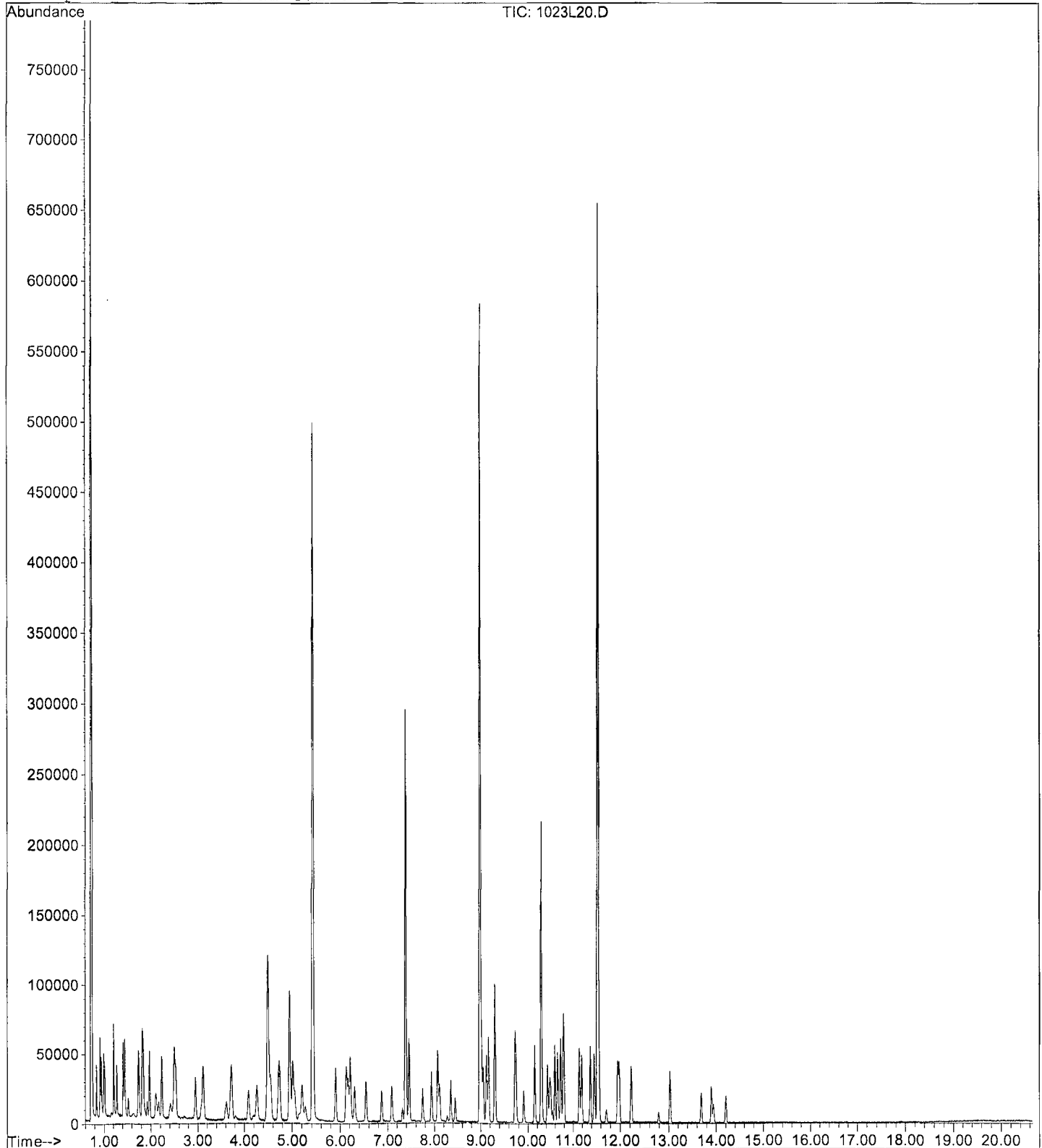
Data File : M:\LOKI\DATA\191023\1023L20.D
Acq On : 24 Oct 19 00:15
Sample : (SS)10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 16
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 9:24 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/2019

Data File: 1030L18.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TML	Dichlorodifluoromethane	0.0636	0.0557	12	TML	2.2
3	TML	Freon 114	0.1338	0.1217	9.0	TML	9.0
4	TM**L	Chloromethane	0.2092	0.1127	46	TM**L	35
5	TM*	Vinyl chloride	0.1839	0.1199	35	TM*	
6	TML	Bromomethane	0.2799	0.1592	43	TML	29
7	TML	Chloroethane	0.1659	0.0793	52	TML	46
8	TM	Dichlorofluoromethane	0.3539	0.2405	32	TM	
9	TM	Trichlorofluoromethane	0.2108	0.1864	12	TM	
10	TM	Diethyl ether	0.0000	0.0206	0.00	TM	
11	TM	Acrolein	0.0184	0.0093	50	TM	
12	TML	Acetone	0.0763	0.0443	42	TML	49
13	TM	Freon-113	0.1657	0.1235	25	TM	
14	TM*L	1,1-DCE	0.1612	0.1226	24	TM*L	16
15	TML	t-Butanol	0.0165	0.0118	28	TML	26
16	TM	2-Propanol	0.0000	0.0001	0.00	TM	
17	TM	Acetonitrile	0.0281	0.0136	52	TM	
18	TML	Methyl Acetate	0.1524	0.0928	39	TML	33
19	TML	Iodomethane	0.0834	0.0234	72	TML	67
20	TML	Acrylonitrile	0.0844	0.0503	40	TML	43
21	TML	Methylene chloride	0.2298	0.1419	38	TML	27
22	TML	Carbon disulfide	0.3814	0.2477	35	TML	22
23	TM	Methyl t-butyl ether (MtBE)	0.3700	0.3100	16	TM	
24	TML	Trans-1,2-DCE	0.1832	0.1351	26	TML	20
25	TM	Diisopropyl Ether	0.3399	0.2800	18	TM	
26	TM**	1,1-DCA	0.2649	0.2334	12	TM**	
27	TM	Vinyl Acetate	0.3399	0.2800	18	TM	
28	TM	Ethyl tert Butyl Ether	0.1214	0.1486	22	TM	
29	TML	MEK (2-Butanone)	0.0179	0.0130	27	TML	12
30	TML	Cis-1,2-DCE	0.1575	0.1422	9.7	TML	1.0
31	TM	2,2-Dichloropropane	0.1929	0.1730	10	TM	
32	TM	2-Methylpentane	0.0000	0.0027	0.00	TM	
33	TM	3-Methylpentane	0.0000	0.0563	0.00	TM	
34	TM*	Chloroform	0.2786	0.2730	2.0	TM*	
35	TM	Bromochloromethane	0.0928	0.0923	0.55	TM	
36	S	Dibromofluoromethane(S)	0.3078	0.3091	0.42	S	
37	TM	1,1,1-TCA	0.2391	0.2578	7.8	TM	
38	TML	Cyclohexane	0.0941	0.0740	21	TML	12
39	TM	1,1-Dichloropropene	0.1428	0.1377	3.5	TM	
40	TM	2,2,4-Trimethylpentane	0.2349	0.2228	5.2	TM	

Average

22.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Loki
Cal. Date: 10/23/2019
Data File: 1030L18.D

		Compound	MEAN	CCRF	%D	%Drift	
41	S	1,2-DCA-D4(S)	0.3307	0.3702	12	S	
42	TM	Carbon Tetrachloride	0.2117	0.2462	16	TM	
43	TM	Tert Amyl Methyl Ether	0.0855	0.1189	39	TM	
44	TM	Methylcyclopentane	0.0000	0.0108	0.00	TM	
45	TM	1,2-DCA	0.2031	0.2156	6.1	TM	
46	TM	Benzene	0.5005	0.4738	5.3	TM	
47	TM	TCE	0.1597	0.1648	3.2	TM	
48	TM	2-Pentanone	0.0525	0.0494	5.9	TM	
49	TM*	1,2-Dichloropropane	0.1271	0.1131	11	TM*	
50	TM	Bromodichloromethane	0.2001	0.2181	9.0	TM	
51	TM	Methyl Cyclohexane	0.1319	0.1417	7.4	TM	
52	TM	Dibromomethane	0.0988	0.0919	7.0	TM	
53	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0677	1.2	TML	0.69
54	TM	1-Bromo-2-chloroethane	0.1573	0.1520	3.4	TM	
55	TM	Cis-1,3-Dichloropropene	0.1631	0.1668	2.3	TM	
56	TM*	Toluene	0.4790	0.5339	11	TM*	
57	TM	Trans-1,3-Dichloropropene	0.1424	0.1641	15	TM	
58	TM	1,1,2-TCA	0.1022	0.0958	6.3	TM	
59	TML	2-Hexanone	0.0269	0.0224	17	TML	8.9
60	I	Chlorobenzene-D5 (IS)	ISTD			I	
61	S	Toluene-D8(S)	0.9097	0.9986	9.8	S	
62	TM	1,2-EDB	0.1292	0.1157	10	TM	
63	TM	Tetrachloroethene	0.1930	0.1912	0.94	TM	
64	TM	1-Chlorohexane	0.1180	0.1246	5.6	TM	
65	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1846	3.2	TML	6.3
66	TML	m&p-Xylene	0.3768	0.4214	12	TML	1.1
67	TM	o-Xylene	0.1930	0.1931	0.05	TM	
68	TML	Styrene	0.2916	0.3245	11	TML	3.5
69	S	4-Bromofluorobenzene(S)	0.3222	0.3571	11	S	
70	TM	1,3-Dichloropropane	0.2020	0.1940	4.0	TM	
71	TM	Dibromochloromethane	0.1885	0.1861	1.3	TM	
72	TM**	Chlorobenzene	0.4117	0.3908	5.1	TM**	
73	TM*	Ethylbenzene	0.4853	0.5392	11	TM*	
74	TM**	Bromoform	0.1367	0.1495	9.4	TM**	
75	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
76	TM	Isopropylbenzene	0.5206	0.5504	5.7	TM	
77	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2665	27	TM**L	19
78	TML	1,2,3-Trichloropropane	0.1211	0.0998	18	TML	9.4
79	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0356	3.4	TM	
80	TM	Bromobenzene	0.3515	0.3324	5.4	TM	

Average

8.7

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Loki
Cal. Date: 10/23/2019
Data File: 1030L18.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	n-Propylbenzene	0.9036	0.9829	8.8	TML	3.7
82	TML	4-Ethyltoluene	0.7832	0.8680	11	TML	2.2
83	TM	2-Chlorotoluene	0.3968	0.4056	2.2	TM	
84	TML	1,3,5-Trimethylbenzene	0.7524	0.8461	12	TML	0.45
85	TM	4-Chlorotoluene	0.1514	0.1410	6.9	TM	
86	TM	Tert-Butylbenzene	0.6536	0.7037	7.7	TM	
87	TML	1,2,4-Trimethylbenzene	0.6824	0.7446	9.1	TML	1.2
88	TM	Sec-Butylbenzene	0.8799	0.9332	6.1	TM	
89	TM	p-Isopropyltoluene	0.8882	0.8819	0.72	TM	
90	TM	Benzyl Chloride	0.2265	0.1814	20	TM	
91	TM	1,3-DCB	0.5684	0.5738	0.95	TM	
92	TM	1,4-DCB	0.6861	0.5854	15	TM	
93	TM	n-Butylbenzene	0.5742	0.5753	0.19	TM	
94	TM	1,2-DCB	0.5713	0.5623	1.6	TM	
95	TML	Hexachloroethane	0.1724	0.2521	46	TML	40
96	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0472	0.09	TML	9.7
97	TMQ	1,2,4-Trichlorobenzene	0.1848	0.2732	48	TMQ	47
98	TML	Hexachlorobutadiene	0.0602	0.0830	38	TML	63
99	TMQ	Naphthalene	0.2958	0.3275	11	TMQ	26
100	TML	1,2,3-Trichlorobenzene	0.1086	0.1218	12	TML	17
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

12.9

Data File : M:\LOKI\DATA\191023\1030L18.D
 Acq On : 30 Oct 19 22:00
 Sample : 191030 CCV/BFB 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	285632	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	281344	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	157696	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	88285	25.10	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.416%	
44) 1,2-DCA-D4(S)	4.95	65	105727	27.98	ppb	0.00
Spiked Amount	25.000		Recovery	=	111.924%	
65) Toluene-D8(S)	7.38	98	280948	27.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.776%	
73) 4-Bromofluorobenzene(S)	10.28	95	100478	27.71	ppb	0.00
Spiked Amount	25.000		Recovery	=	110.844%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	6367	9.78	ppb	89
4) Freon 114	0.91	85	13907	10.90	ppb	94
5) Chloromethane	0.94	50	12872	6.50	ppb	100
6) Vinyl chloride	1.01	62	13701	6.52	ppb	95
8) Bromomethane	1.21	94	18185	7.10	ppb	97
9) Chloroethane	1.27	64	9055	5.40	ppb	98
10) Dichlorofluoromethane	1.41	67	27479	6.80	ppb	93
11) Trichlorofluoromethane	1.45	103	21295	8.84	ppb	93
13) Acrolein	1.74	56	13228	62.89	ppb	# 85
14) Acetone	1.88	43	5059	5.13	ppb	89
15) Freon-113	1.83	101	14112	7.45	ppb	91
16) 1,1-DCE	1.82	96	14006	8.39	ppb	95
17) t-Butanol	2.40	59	16870	92.62	ppb	93
19) Acetonitrile	2.10	41	19442	60.49	ppb	97
20) Methyl Acetate	2.16	43	10600	6.73	ppb	92
21) Iodomethane	1.92	142	2669	3.35	ppb	# 57
22) Acrylonitrile	2.47	53	5746	5.70	ppb	88
23) Methylene chloride	2.23	84	16211	7.32	ppb	96
24) Carbon disulfide	1.97	76	28304	7.78	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	35417	8.38	ppb	# 90
26) Trans-1,2-DCE	2.49	96	15433	7.97	ppb	96
27) Diisopropyl Ether	3.11	45	31989	8.24	ppb	# 81
29) 1,1-DCA	2.95	63	26669	8.81	ppb	92
30) Vinyl Acetate	3.11	45	31989	8.24	ppb	# 81
31) Ethyl tert Butyl Ether	3.60	59	16975	12.24	ppb	# 86
32) MEK (2-Butanone)	3.82	43	1490	8.79	ppb	# 81
33) Cis-1,2-DCE	3.72	96	16252	9.90	ppb	95
34) 2,2-Dichloropropane	3.71	77	19769	8.97	ppb	94
37) Chloroform	4.27	83	31189	9.80	ppb	91
38) Bromochloromethane	4.09	128	10544	9.95	ppb	88
40) 1,1,1-TCA	4.48	97	29457	10.78	ppb	99
41) Cyclohexane	4.55	41	8460	8.76	ppb	87
42) 1,1-Dichloropropene	4.74	75	15733	9.65	ppb	96
43) 2,2,4-Trimethylpentane	5.20	57	25454	9.48	ppb	88
45) Carbon Tetrachloride	4.72	117	28134	11.63	ppb	91
46) Tert Amyl Methyl Ether	5.27	73	13585	13.91	ppb	# 85
48) 1,2-DCA	5.05	62	24628	10.61	ppb	97
49) Benzene	5.01	78	54132	9.47	ppb	97
50) TCE	5.90	130	18831	10.32	ppb	# 94

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

Data File : M:\LOKI\DATA\191023\1030L18.D
 Acq On : 30 Oct 19 22:00
 Sample : 191030 CCV/BFB 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	70543	117.57	ppb	94
52) 1,2-Dichloropropane	6.16	63	12926	8.90	ppb	100
53) Bromodichloromethane	6.54	83	24918	10.90	ppb	100
54) Methyl Cyclohexane	6.13	83	16188	10.74	ppb	83
55) Dibromomethane	6.30	93	10499	9.30	ppb	85
57) MIBK (methyl isobutyl ket	7.31	43	7738	10.07	ppb	# 93
58) 1-Bromo-2-chloroethane	6.87	63	17367	9.66	ppb	97
59) Cis-1,3-Dichloropropene	7.08	75	19055	10.23	ppb	88
60) Toluene	7.45	91	60999	11.15	ppb	100
61) Trans-1,3-Dichloropropene	7.75	75	18747	11.53	ppb	95
62) 1,1,2-TCA	7.93	83	10946	9.37	ppb	87
63) 2-Hexanone	8.26	43	2563	9.11	ppb	89
66) 1,2-EDB	8.44	107	13020	8.95	ppb	# 80
67) Tetrachloroethene	8.07	166	21516	9.91	ppb	92
68) 1-Chlorohexane	9.05	91	14022	10.56	ppb	92
69) 1,1,1,2-Tetrachloroethane	9.12	131	20772	10.63	ppb	94
70) m&p-Xylene	9.30	91	94838	20.22	ppb	99
71) o-Xylene	9.72	106	21728	10.01	ppb	95
72) Styrene	9.74	104	36521	9.65	ppb	92
74) 1,3-Dichloropropane	8.11	76	21831	9.60	ppb	100
75) Dibromochloromethane	8.35	129	20939	9.87	ppb	94
76) Chlorobenzene	9.01	112	43982	9.49	ppb	88
77) Ethylbenzene	9.17	91	60682	11.11	ppb	93
78) Bromoform	9.91	173	16827	10.94	ppb	92
80) Isopropylbenzene	10.14	105	34720	10.57	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	16809	8.06	ppb	99
82) 1,2,3-Trichloropropane	10.50	110	6294	9.06	ppb	97
83) t-1,4-Dichloro-2-Butene	10.54	53	2244	9.66	ppb	95
84) Bromobenzene	10.42	156	20970	9.46	ppb	99
85) n-Propylbenzene	10.59	91	61999	9.63	ppb	97
86) 4-Ethyltoluene	10.72	105	54752	9.78	ppb	95
87) 2-Chlorotoluene	10.65	91	25584	10.22	ppb	86
88) 1,3,5-Trimethylbenzene	10.79	105	53371	10.04	ppb	95
89) 4-Chlorotoluene	10.78	126	8893	9.31	ppb	86
90) Tert-Butylbenzene	11.14	119	44389	10.77	ppb	99
91) 1,2,4-Trimethylbenzene	11.18	105	46968	9.88	ppb	99
92) Sec-Butylbenzene	11.37	105	58866	10.61	ppb	97
93) p-Isopropyltoluene	11.54	119	55626	9.93	ppb	94
94) Benzyl Chloride	11.71	91	11445	8.01	ppb	99
95) 1,3-DCB	11.46	146	36196	10.09	ppb	93
96) 1,4-DCB	11.56	146	36924	8.53	ppb	97
97) n-Butylbenzene	11.98	91	36286	10.02	ppb	92
98) 1,2-DCB	11.95	146	35469	9.84	ppb	93
99) Hexachloroethane	12.22	201	15903	13.97	ppb	88
100) 1,2-Dibromo-3-chloropropan	12.78	75	2978	10.97	ppb	# 82
101) 1,2,4-Trichlorobenzene	13.69	180	17234	14.75	ppb	78
102) Hexachlorobutadiene	13.90	223	5233	16.33	ppb	# 70
103) Naphthalene	13.94	128	20656	12.60	ppb	98
104) 1,2,3-Trichlorobenzene	14.21	182	7681	11.75	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030L18.D L1023W.M Wed Nov 20 14:10:55 2019

Quantitation Report

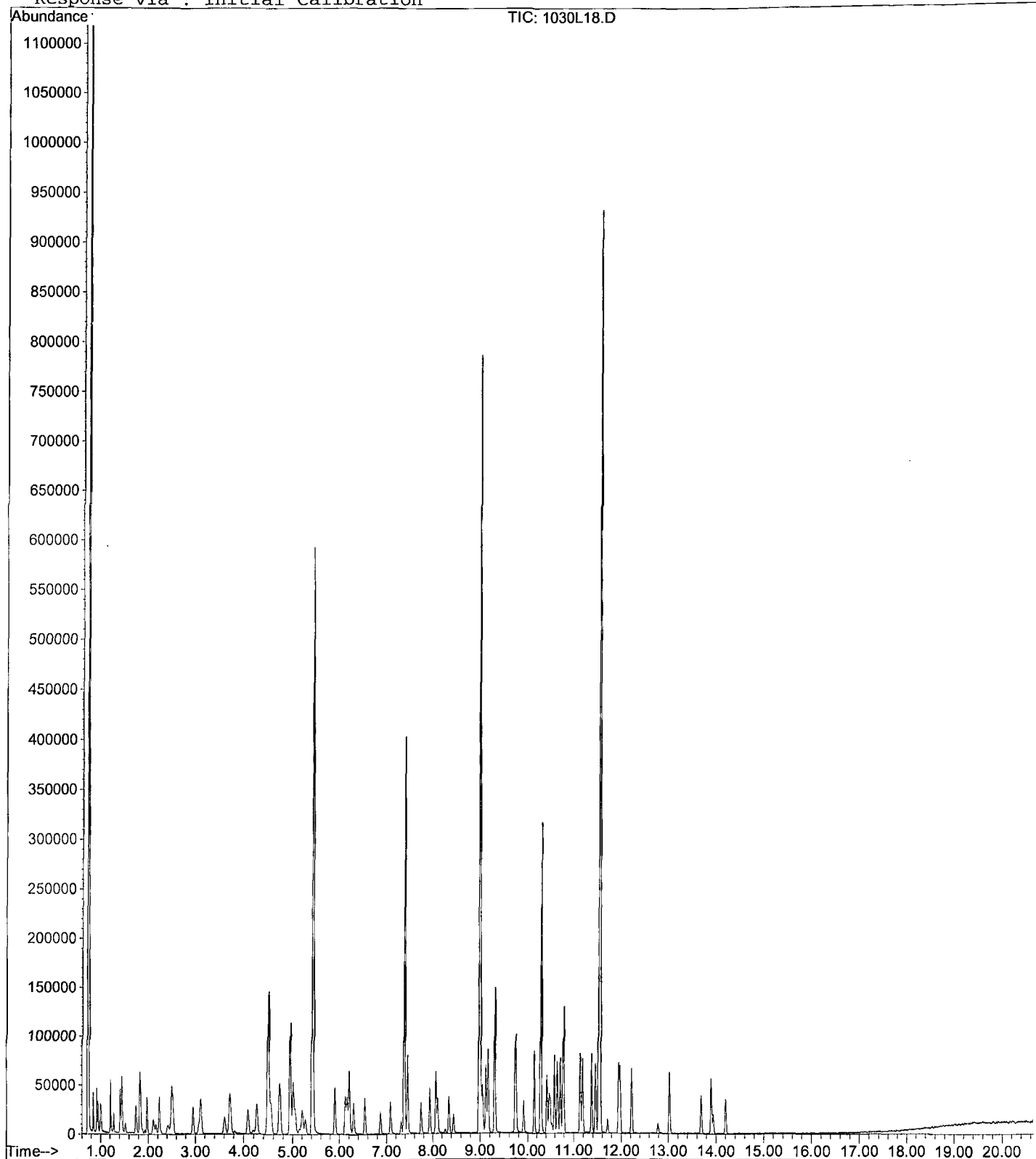
Data File : M:\LOKI\DATA\191023\1030L18.D
Acq On : 30 Oct 19 22:00
Sample : 191030 CCV/BFB 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 18
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/23/2019

Data File: 1030L42.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TML Dichlorodifluoromethane	0.0636	0.0489	23	TML 14
3	TML Freon 114	0.1338	0.1117	17	TML 1.2
4	TM**L Chloromethane	0.2092	0.1035	51	TM**L 41
5	TM* Vinyl chloride	0.1839	0.1173	36	TM*
6	TML Bromomethane	0.2799	0.1202	57	TML 47
7	TML Chloroethane	0.1659	0.0735	56	TML 50
8	TM Dichlorofluoromethane	0.3539	0.2309	35	TM
9	TM Trichlorofluoromethane	0.2108	0.1783	15	TM
10	TM Diethyl ether	0.0000	0.0209	0.00	TM
11	TM Acrolein	0.0184	0.0081	56	TM
12	TML Acetone	0.0763	0.0410	46	TML 56
13	TM Freon-113	0.1657	0.1079	35	TM
14	TM*L 1,1-DCE	0.1612	0.1145	29	TM*L 22
15	TML t-Butanol	0.0165	0.0104	37	TML 35
16	TM 2-Propanol	0.0000	0.0000	0.00	TM
17	TM Acetonitrile	0.0281	0.0137	51	TM
18	TML Methyl Acetate	0.1524	0.0754	51	TML 47
19	TML Iodomethane	0.0834	0.0069	92	TML 78
20	TML Acrylonitrile	0.0844	0.0454	46	TML 51
21	TML Methylene chloride	0.2298	0.1445	37	TML 25
22	TML Carbon disulfide	0.3814	0.2305	40	TML 28
23	TM Methyl t-butyl ether (MtBE)	0.3700	0.3043	18	TM
24	TML Trans-1,2-DCE	0.1832	0.1267	31	TML 26
25	TM Diisopropyl Ether	0.3399	0.2961	13	TM
26	TM** 1,1-DCA	0.2649	0.2268	14	TM**
27	TM Vinyl Acetate	0.3399	0.2961	13	TM
28	TM Ethyl tert Butyl Ether	0.1214	0.1582	30	TM
29	TML MEK (2-Butanone)	0.0179	0.0093	48	TML 35
30	TML Cis-1,2-DCE	0.1575	0.1370	13	TML 4.9
31	TM 2,2-Dichloropropane	0.1929	0.1527	21	TM
32	TM 3-Methylpentane	0.0000	0.0651	0.00	TM
33	TM* Chloroform	0.2786	0.2587	7.1	TM*
34	TM Bromochloromethane	0.0928	0.0759	18	TM
35	S Dibromofluoromethane(S)	0.3078	0.2899	5.8	S
36	TM 1,1,1-TCA	0.2391	0.2485	3.9	TM
37	TML Cyclohexane	0.0941	0.0698	26	TML 17
38	TM 1,1-Dichloropropene	0.1428	0.1438	0.72	TM
39	TM 2,2,4-Trimethylpentane	0.2349	0.2055	13	TM
40	S 1,2-DCA-D4(S)	0.3307	0.3552	7.4	S

Average

28.0

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/2019
Instrument: Loki
Cal. Date: 10/23/2019
Data File: 1030L42.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	Carbon Tetrachloride	0.2117	0.2407	14	TM
42	TM	Tert Amyl Methyl Ether	0.0855	0.1172	37	TM
43	TM	Methylcyclopentane	0.0000	0.0111	0.00	TM
44	TM	1,2-DCA	0.2031	0.2095	3.2	TM
45	TM	Benzene	0.5005	0.4676	6.6	TM
46	TM	TCE	0.1597	0.1613	1.0	TM
47	TM	2-Pentanone	0.0525	0.0464	12	TM
48	TM*	1,2-Dichloropropane	0.1271	0.1149	9.6	TM*
49	TM	Bromodichloromethane	0.2001	0.2070	3.4	TM
50	TM	Methyl Cyclohexane	0.1319	0.1504	14	TM
51	TM	Dibromomethane	0.0988	0.0887	10	TM
52	TML	MIBK (methyl isobutyl ketone)	0.0686	0.0641	6.5	TML 4.7
53	TM	1-Bromo-2-chloroethane	0.1573	0.1417	9.9	TM
54	TM	Cis-1,3-Dichloropropene	0.1631	0.1746	7.1	TM
55	TM*	Toluene	0.4790	0.5439	14	TM*
56	TM	Trans-1,3-Dichloropropene	0.1424	0.1589	12	TM
57	TM	1,1,2-TCA	0.1022	0.0951	7.0	TM
58	TML	2-Hexanone	0.0269	0.0239	11	TML 3.4
59	I	Chlorobenzene-D5 (IS)	ISTD			I
60	S	Toluene-D8(S)	0.9097	0.9897	8.8	S
61	TM	1,2-EDB	0.1292	0.1170	9.5	TM
62	TM	Tetrachloroethene	0.1930	0.2018	4.6	TM
63	TM	1-Chlorohexane	0.1180	0.1335	13	TM
64	TML	1,1,1,2-Tetrachloroethane	0.1907	0.1752	8.1	TML 0.42
65	TML	m&p-Xylene	0.3768	0.4518	20	TML 7.6
66	TM	o-Xylene	0.1930	0.2115	9.6	TM
67	TML	Styrene	0.2916	0.3718	27	TML 8.3
68	S	4-Bromofluorobenzene(S)	0.3222	0.3708	15	S
69	TM	1,3-Dichloropropane	0.2020	0.1890	6.5	TM
70	TM	Dibromochloromethane	0.1885	0.1841	2.3	TM
71	TM**	Chlorobenzene	0.4117	0.3997	2.9	TM**
72	TM*	Ethylbenzene	0.4853	0.5797	19	TM*
73	TM**	Bromoform	0.1367	0.1420	3.9	TM**
74	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
75	TM	Isopropylbenzene	0.5206	0.5931	14	TM
76	TM**L	1,1,2,2-Tetrachloroethane	0.3634	0.2387	34	TM**L 31
77	TML	1,2,3-Trichloropropane	0.1211	0.0907	25	TML 18
78	TM	t-1,4-Dichloro-2-Butene	0.0368	0.0330	10	TM
79	TM	Bromobenzene	0.3515	0.3433	2.3	TM
80	TML	n-Propylbenzene	0.9036	1.051	16	TML 2.5

Average

11.3

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/2019

Matrix: 0

Instrument: Loki

Cal. Date: 10/23/2019

Data File: 1030L42.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TML	4-Ethyltoluene	0.7832	0.9298	19	TML	4.0
82	TM	2-Chlorotoluene	0.3968	0.4183	5.4	TM	
83	TML	1,3,5-Trimethylbenzene	0.7524	0.8541	14	TML	1.3
84	TM	4-Chlorotoluene	0.1514	0.1411	6.8	TM	
85	TM	Tert-Butylbenzene	0.6536	0.7213	10	TM	
86	TML	1,2,4-Trimethylbenzene	0.6824	0.7914	16	TML	4.2
87	TM	Sec-Butylbenzene	0.8799	0.9880	12	TM	
88	TM	p-Isopropyltoluene	0.8882	0.9129	2.8	TM	
89	TM	Benzyl Chloride	0.2265	0.1539	32	TM	
90	TM	1,3-DCB	0.5684	0.5938	4.5	TM	
91	TM	1,4-DCB	0.6861	0.6172	10	TM	
92	TM	n-Butylbenzene	0.5742	0.7694	34	TM	
93	TM	1,2-DCB	0.5713	0.5618	1.7	TM	
94	TML	Hexachloroethane	0.1724	0.2376	38	TML	32
95	TML	1,2-Dibromo-3-chloropropane	0.0473	0.0488	3.4	TML	13
96	TMQ	1,2,4-Trichlorobenzene	0.1848	0.3042	65	TMQ	62 nt
97	TML	Hexachlorobutadiene	0.0602	0.0780	30	TML	54 nt
98	TMQ	Naphthalene	0.2958	0.4329	46	TMQ	60 nt
99	TML	1,2,3-Trichlorobenzene	0.1086	0.1517	40	TML	39
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

20.6

Data File : M:\LOKI\DATA\191023\1030L42.D
 Acq On : 31 Oct 19 9:21
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	276480	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	267584	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156544	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	80162	23.55	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.196%	
44) 1,2-DCA-D4(S)	4.94	65	98207	26.85	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.404%	
65) Toluene-D8(S)	7.38	98	264817	27.20	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.796%	
73) 4-Bromofluorobenzene(S)	10.28	95	99230	28.77	ppb	0.00
Spiked Amount	25.000		Recovery	=	115.096%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	5410	8.59	ppb	94
4) Freon 114	0.91	85	12355	9.88	ppb	93
5) Chloromethane	0.94	50	11449	5.92	ppb	99
6) Vinyl chloride	1.01	62	12972	6.38	ppb	100
8) Bromomethane	1.21	94	13297	5.26	ppb	94
9) Chloroethane	1.27	64	8134	4.99	ppb	94
10) Dichlorofluoromethane	1.41	67	25537	6.52	ppb	97
11) Trichlorofluoromethane	1.45	103	19714	8.46	ppb	87
13) Acrolein	1.74	56	11136	54.69	ppb	# 95
14) Acetone	1.88	43	4535	4.40	ppb	89
15) Freon-113	1.83	101	11934	6.51	ppb	88
16) 1,1-DCE	1.82	96	12660	7.76	ppb	95
17) t-Butanol	2.48	59	14363	81.61	ppb	98
19) Acetonitrile	2.13	41	18999	61.07	ppb	94
20) Methyl Acetate	2.16	43	8338	5.35	ppb	95
21) Iodomethane	1.92	142	765	2.20	ppb	# 83
22) Acrylonitrile	2.47	53	5022	4.89	ppb	93
23) Methylene chloride	2.23	84	15986	7.49	ppb	92
24) Carbon disulfide	1.97	76	25496	7.22	ppb	94
25) Methyl t-butyl ether (MtBE)	2.52	73	33651	8.22	ppb	91
26) Trans-1,2-DCE	2.49	96	14016	7.42	ppb	90
27) Diisopropyl Ether	3.11	45	32741	8.71	ppb	# 88
29) 1,1-DCA	2.95	63	25080	8.56	ppb	93
30) Vinyl Acetate	3.11	45	32741	8.71	ppb	# 88
31) Ethyl tert Butyl Ether	3.60	59	17492	13.03	ppb	89
32) MEK (2-Butanone)	3.81	43	1029	6.47	ppb	# 81
33) Cis-1,2-DCE	3.73	96	15149	9.51	ppb	97
34) 2,2-Dichloropropane	3.71	77	16888	7.92	ppb	97
37) Chloroform	4.27	83	28612	9.29	ppb	98
38) Bromochloromethane	4.09	128	8389	8.17	ppb	# 63
40) 1,1,1-TCA	4.48	97	27481	10.39	ppb	92
41) Cyclohexane	4.55	41	7714	8.26	ppb	# 44
42) 1,1-Dichloropropene	4.74	75	15903	10.07	ppb	93
43) 2,2,4-Trimethylpentane	5.20	57	22725	8.75	ppb	92
45) Carbon Tetrachloride	4.72	117	26619	11.37	ppb	99
46) Tert Amyl Methyl Ether	5.27	73	12957	13.71	ppb	# 85
48) 1,2-DCA	5.05	62	23171	10.32	ppb	92
49) Benzene	5.01	78	51713	9.34	ppb	97
50) TCE	5.90	130	17843	10.10	ppb	# 87

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

Data File : M:\LOKI\DATA\191023\1030L42.D
 Acq On : 31 Oct 19 9:21
 Sample : Ending CCV 10ug/L 10/29/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 42
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	64077	110.33	ppb	93
52) 1,2-Dichloropropane	6.17	63	12711	9.04	ppb	99
53) Bromodichloromethane	6.54	83	22895	10.34	ppb	99
54) Methyl Cyclohexane	6.12	83	16637	11.40	ppb	80
55) Dibromomethane	6.30	93	9807	8.98	ppb	87
57) MIBK (methyl isobutyl ket	7.31	43	7088	9.53	ppb	# 96
58) 1-Bromo-2-chloroethane	6.87	63	15668	9.01	ppb	99
59) Cis-1,3-Dichloropropene	7.08	75	19310	10.71	ppb	94
60) Toluene	7.45	91	60155	11.36	ppb	97
61) Trans-1,3-Dichloropropene	7.75	75	17571	11.16	ppb	96
62) 1,1,2-TCA	7.93	83	10514	9.30	ppb	85
63) 2-Hexanone	8.27	43	2647	9.66	ppb	90
66) 1,2-EDB	8.44	107	12523	9.05	ppb	# 87
67) Tetrachloroethene	8.07	166	21603	10.46	ppb	96
68) 1-Chlorohexane	9.05	91	14285	11.31	ppb	94
69) 1,1,1,2-Tetrachloroethane	9.12	131	18747	10.04	ppb	93
70) m&p-Xylene	9.30	91	96714	21.52	ppb	99
71) o-Xylene	9.72	106	22640	10.96	ppb	95
72) Styrene	9.74	104	39792	10.83	ppb	99
74) 1,3-Dichloropropane	8.11	76	20227	9.35	ppb	98
75) Dibromochloromethane	8.35	129	19710	9.77	ppb	88
76) Chlorobenzene	9.02	112	42785	9.71	ppb	92
77) Ethylbenzene	9.17	91	62043	11.94	ppb	86
78) Bromoform	9.91	173	15204	10.39	ppb	92
80) Isopropylbenzene	10.14	105	37136	11.39	ppb	97
81) 1,1,2,2-Tetrachloroethane	10.47	83	14948	6.93	ppb	98
82) 1,2,3-Trichloropropane	10.50	110	5679	8.20	ppb	91
83) t-1,4-Dichloro-2-Butene	10.54	53	2068	8.97	ppb	95
84) Bromobenzene	10.43	156	21498	9.77	ppb	90
85) n-Propylbenzene	10.59	91	65835	10.25	ppb	99
86) 4-Ethyltoluene	10.72	105	58220	10.40	ppb	100
87) 2-Chlorotoluene	10.65	91	26192	10.54	ppb	85
88) 1,3,5-Trimethylbenzene	10.79	105	53481	10.13	ppb	92
89) 4-Chlorotoluene	10.77	126	8835	9.32	ppb	87
90) Tert-Butylbenzene	11.14	119	45169	11.04	ppb	98
91) 1,2,4-Trimethylbenzene	11.19	105	49554	10.42	ppb	99
92) Sec-Butylbenzene	11.37	105	61865	11.23	ppb	100
93) p-Isopropyltoluene	11.54	119	57162	10.28	ppb	93
94) Benzyl Chloride	11.71	91	9636	6.79	ppb	98
95) 1,3-DCB	11.46	146	37182	10.45	ppb	93
96) 1,4-DCB	11.56	146	38645	8.99	ppb	98
97) n-Butylbenzene	11.98	91	48175	13.40	ppb	93
98) 1,2-DCB	11.95	146	35177	9.83	ppb	92
99) Hexachloroethane	12.22	201	14878	13.21	ppb	# 81
100) 1,2-Dibromo-3-chloropropan	12.79	75	3058	11.34	ppb	94
101) 1,2,4-Trichlorobenzene	13.69	180	19047	16.21	ppb	78
102) Hexachlorobutadiene	13.90	223	4886	15.43	ppb	83
103) Naphthalene	13.94	128	27110	15.95	ppb	96
104) 1,2,3-Trichlorobenzene	14.20	182	9496	13.95	ppb	96

(#) = qualifier out of range (m) = manual integration
 1030L42.D L1023W.M Wed Nov 20 14:11:42 2019

Quantitation Report

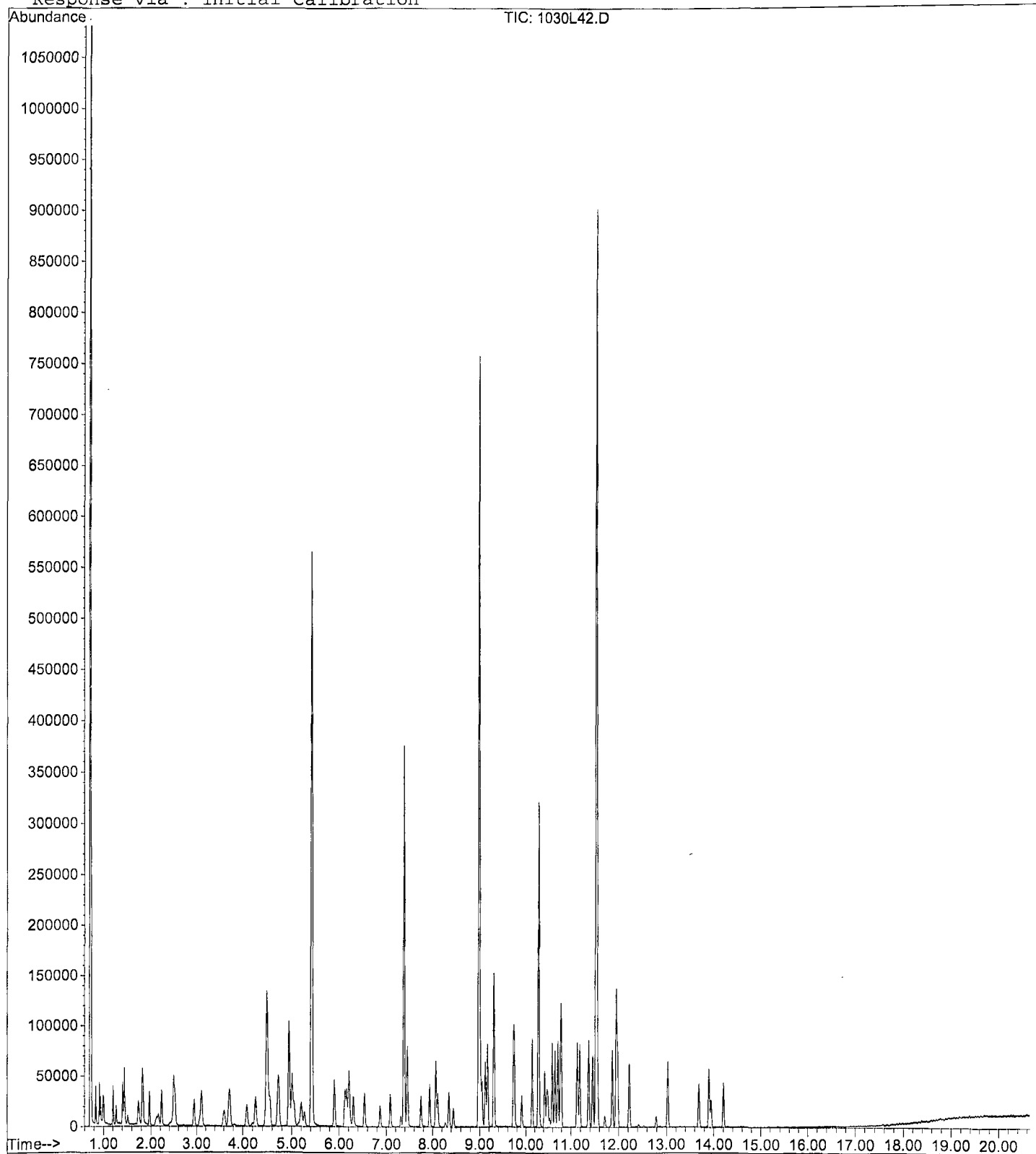
Data File : M:\LOKI\DATA\191023\1030L42.D
Acq On : 31 Oct 19 9:21
Sample : Ending CCV 10ug/L 10/29/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 42
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:54 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



ORGANICS
Raw Data

Data File : M:\THOR\DATA\T191028\1029T35.D Vial: 35
 Acq On : 30 Oct 19 3:50 Operator:
 Sample : BA01828W01 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 30 9:48 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	143872	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	132352	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	71056	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	66906	24.13	ppb	0.00
Spiked Amount 25.000			Recovery =	96.504%		
45) 1,2-DCA-D4(S)	6.17	65	74812	24.09	ppb	0.00
Spiked Amount 25.000			Recovery =	96.372%		
66) Toluene-D8(S)	8.30	98	229164	23.19	ppb	0.00
Spiked Amount 25.000			Recovery =	92.744%		
74) 4-Bromofluorobenzene(S)	10.92	174	88978	22.74	ppb	0.00
Spiked Amount 25.000			Recovery =	90.960%		

Target Compounds Qvalue

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

Quantitation Report

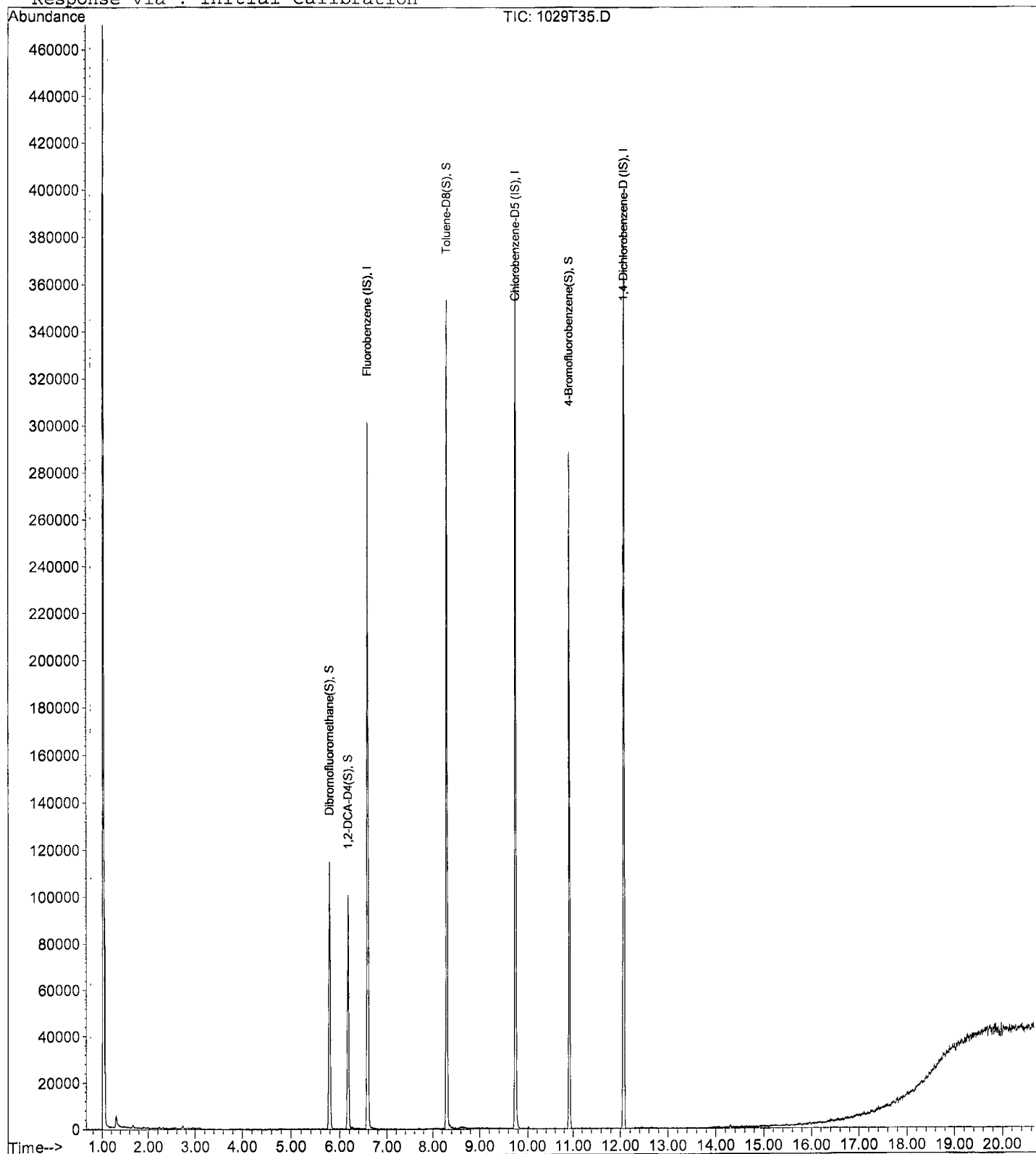
Data File : M:\THOR\DATA\T191028\1029T35.D
Acq On : 30 Oct 19 3:50
Sample : BA01828W01
Misc : IS&S 9/23/19

Vial: 35
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:48 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T37.D Vial: 37
 Acq On : 30 Oct 19 4:47 Operator:
 Sample : BA01829W01 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 30 9:48 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	141376	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	127264	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	69216	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.79	111	66792	24.51	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.040%	
45) 1,2-DCA-D4(S)	6.17	65	70617	23.14	ppb	0.00
Spiked Amount	25.000		Recovery	=	92.572%	
66) Toluene-D8(S)	8.30	98	223581	23.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.100%	
74) 4-Bromofluorobenzene(S)	10.92	174	86497	22.99	ppb	0.00
Spiked Amount	25.000		Recovery	=	91.960%	

Target Compounds Qvalue

Quantitation Report

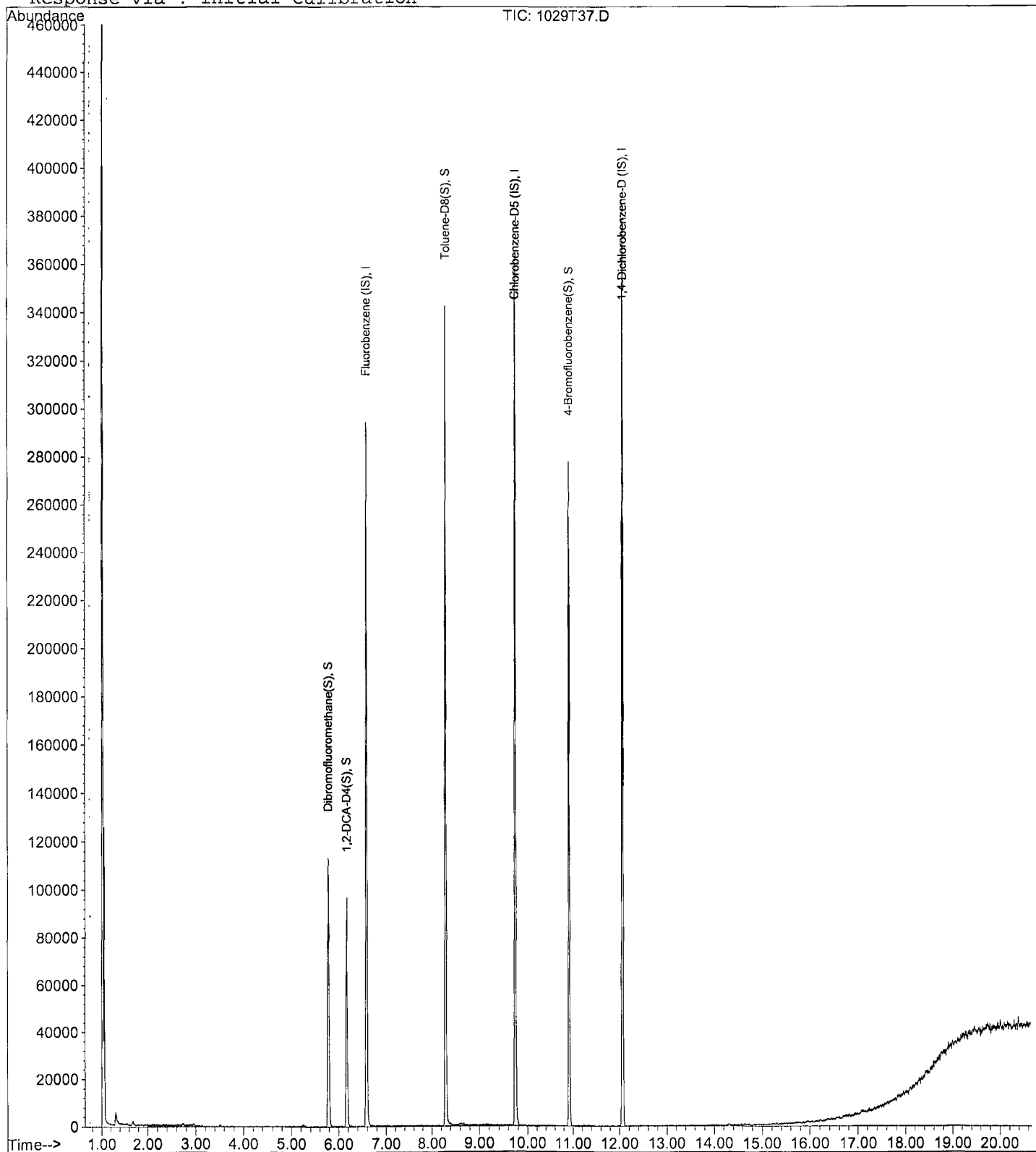
Data File : M:\THOR\DATA\T191028\1029T37.D
Acq On : 30 Oct 19 4:47
Sample : BA01829W01
Misc : IS&S 9/23/19

Vial: 37
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:48 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T40.D Vial: 40
 Acq On : 30 Oct 19 6:12 Operator:
 Sample : BA01830W01 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 30 9:49 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	133760	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	126440	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	66240	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.78	111	63727	24.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.868%	
45) 1,2-DCA-D4(S)	6.17	65	71064	24.62	ppb	0.00
Spiked Amount	25.000		Recovery	=	98.464%	
66) Toluene-D8(S)	8.30	98	219690	23.27	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.068%	
74) 4-Bromofluorobenzene(S)	10.92	174	84894	22.71	ppb	0.00
Spiked Amount	25.000		Recovery	=	90.844%	

Target Compounds Qvalue

Quantitation Report

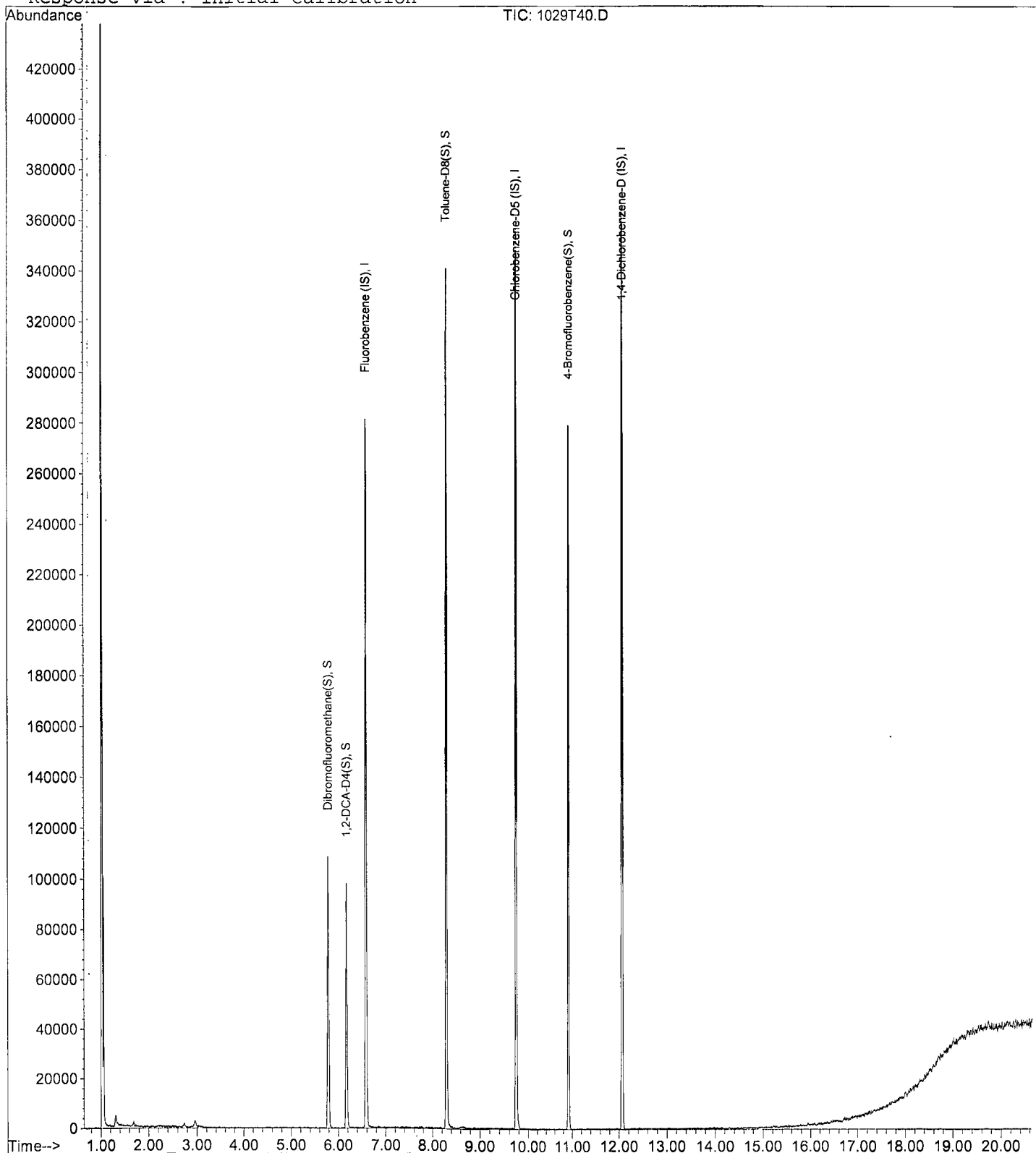
Data File : M:\THOR\DATA\T191028\1029T40.D
Acq On : 30 Oct 19 6:12
Sample : BA01830W01
Misc : IS&S 9/23/19

Vial: 40
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:49 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T38.D
 Acq On : 30 Oct 19 5:15
 Sample : BA01831W01
 Misc : IS&S 9/23/19

Vial: 38
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 9:49 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	139200	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	125728	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	65480	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.79	111	64616	24.08	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		96.328%
45) 1,2-DCA-D4(S)	6.17	65	72787	24.23	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		96.908%
66) Toluene-D8(S)	8.30	98	229681	24.46	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		97.848%
74) 4-Bromofluorobenzene(S)	10.92	174	86465	23.26	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		93.048%

Target Compounds

Qvalue

Quantitation Report

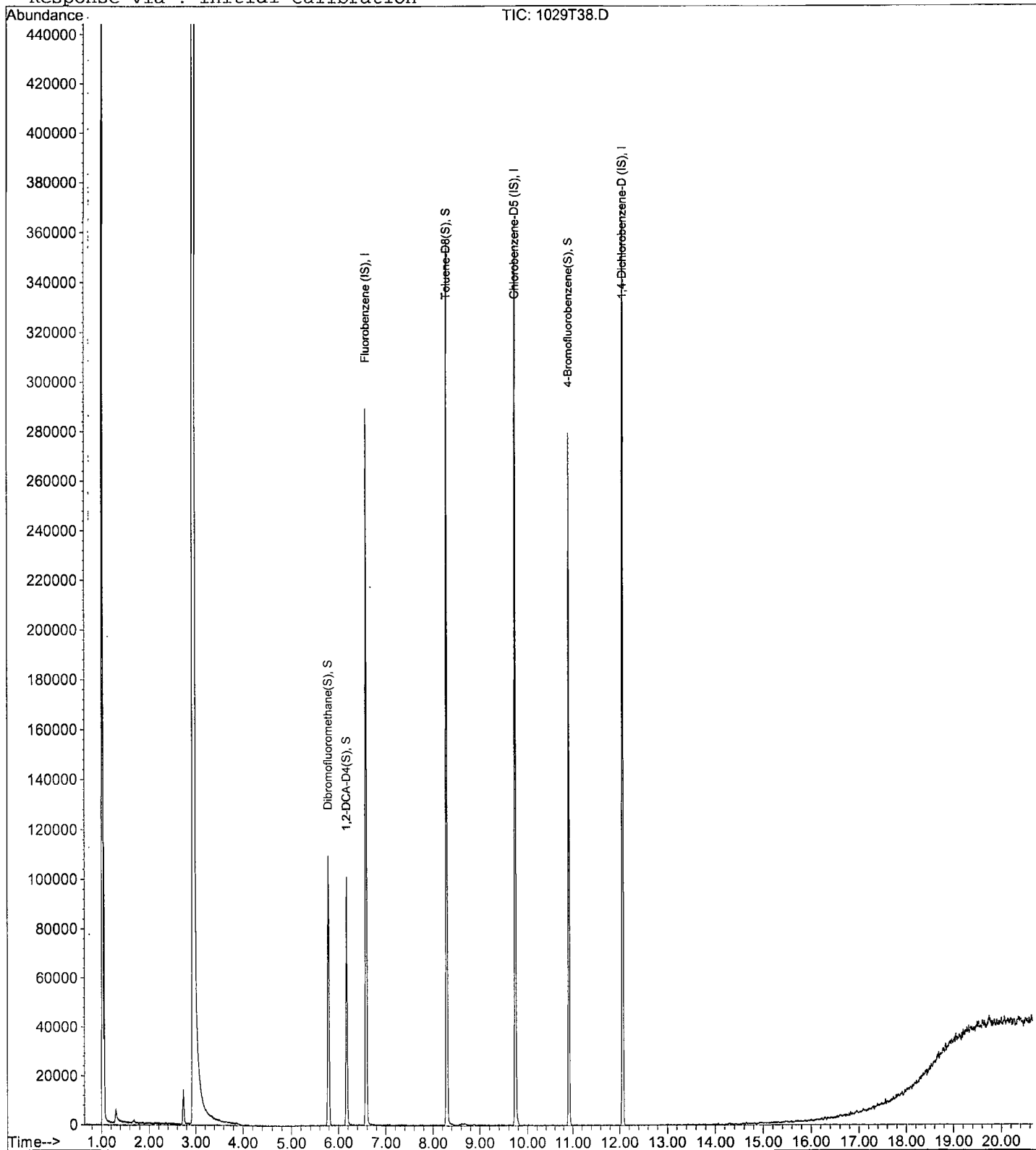
Data File : M:\THOR\DATA\T191028\1029T38.D
Acq On : 30 Oct 19 5:15
Sample : BA01831W01
Misc : IS&S 9/23/19

Vial: 38
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:49 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T36.D Vial: 36
 Acq On : 30 Oct 19 4:18 Operator:
 Sample : BA01832W01 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 30 9:48 2019 Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	133504	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	120008	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	65888	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Dibromofluoromethane(S)	5.79	111	65276	25.37	ppb	0.00
Spiked Amount 25.000			Recovery =	101.464%		
45) 1,2-DCA-D4(S)	6.17	65	71582	24.84	ppb	0.00
Spiked Amount 25.000			Recovery =	99.372%		
66) Toluene-D8(S)	8.30	98	226347	25.26	ppb	0.00
Spiked Amount 25.000			Recovery =	101.024%		
74) 4-Bromofluorobenzene(S)	10.92	174	87033	24.53	ppb	0.00
Spiked Amount 25.000			Recovery =	98.124%		

Target Compounds Qvalue

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

Quantitation Report

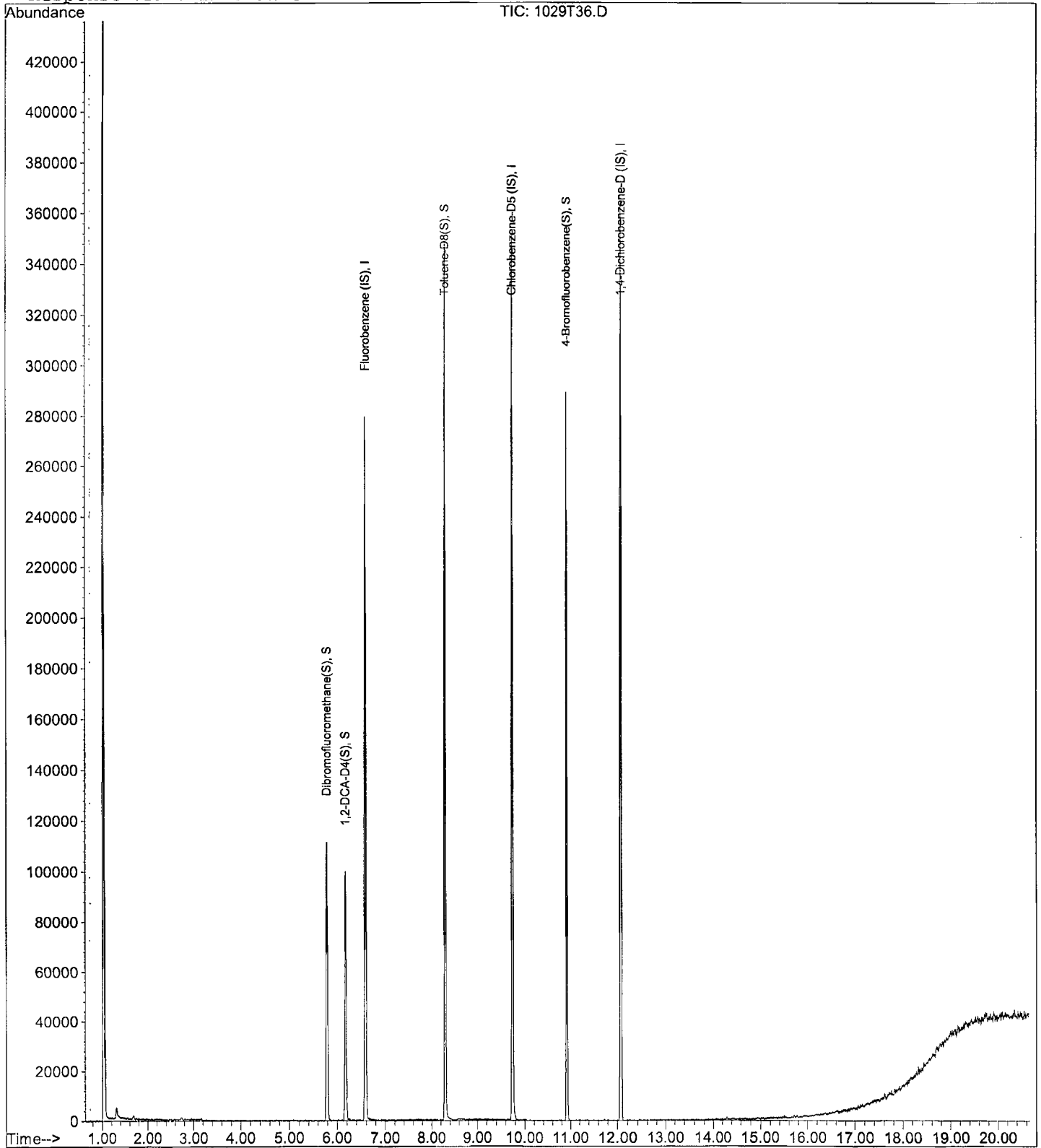
Data File : M:\THOR\DATA\T191028\1029T36.D
Acq On : 30 Oct 19 4:18
Sample : BA01832W01
Misc : IS&S 9/23/19

Vial: 36
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:48 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L28.D
 Acq On : 31 Oct 19 2:44
 Sample : BA01833W03
 Misc : IS&S:10/7/19, 10/23/19

Vial: 28
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	269248	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	261184	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	125680	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	85688	25.85	ppb	0.00
Spiked Amount				25.000		
					Recovery =	103.396%
44) 1,2-DCA-D4(S)	4.95	65	99108	27.83	ppb	0.00
Spiked Amount				25.000		
					Recovery =	111.300%
65) Toluene-D8(S)	7.38	98	258811	27.23	ppb	0.00
Spiked Amount				25.000		
					Recovery =	108.932%
73) 4-Bromofluorobenzene(S)	10.28	95	85098	25.28	ppb	0.00
Spiked Amount				25.000		
					Recovery =	101.120%

Target Compounds

Qvalue

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

Quantitation Report

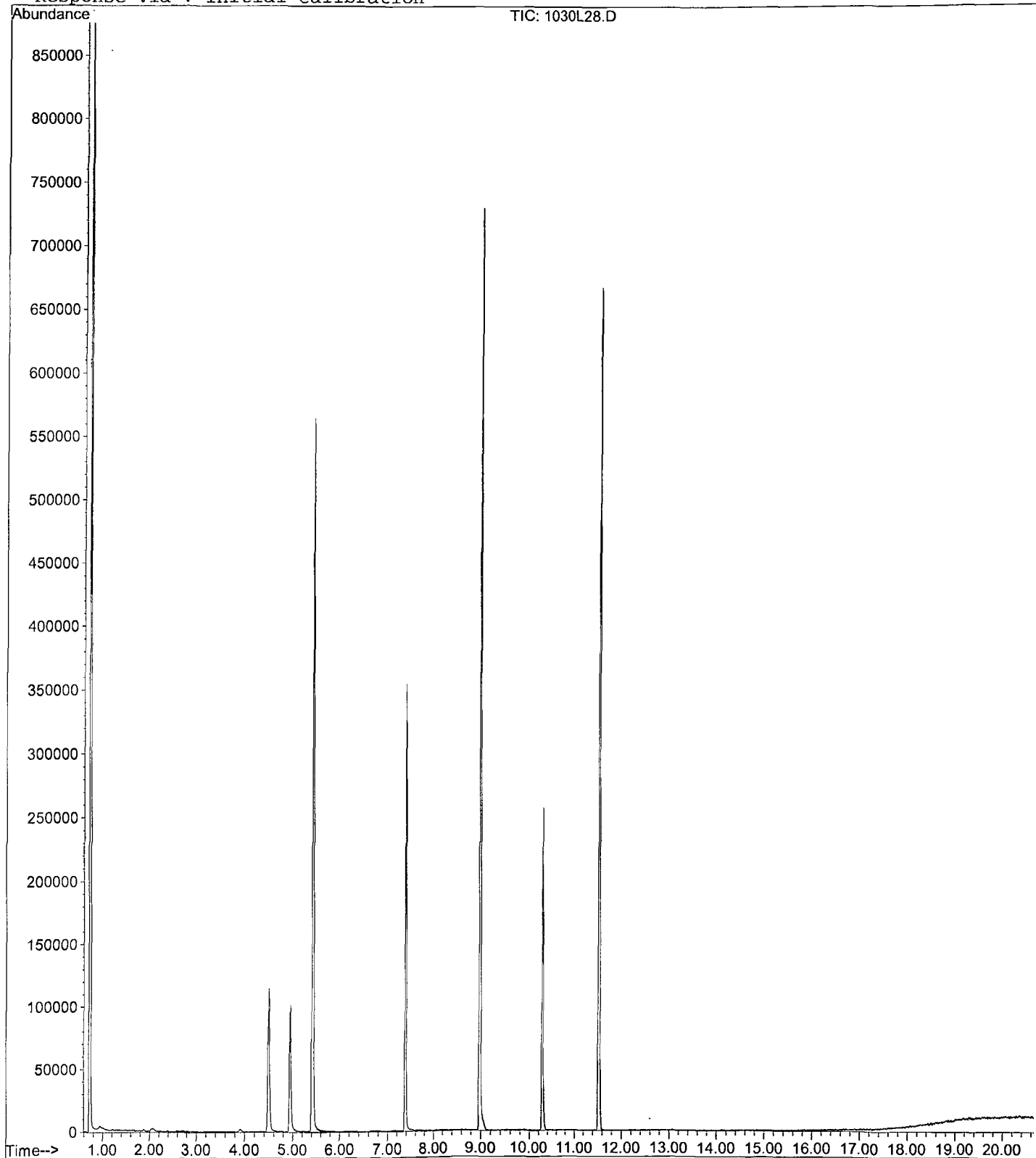
Data File : M:\LOKI\DATA\191023\1030L28.D
Acq On : 31 Oct 19 2:44
Sample : BA01833W03
Misc : IS&S:10/7/19, 10/23/19

Vial: 28
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:41 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T34.D
 Acq On : 30 Oct 19 3:22
 Sample : 191029B BLK
 Misc : IS&S 9/23/19

Vial: 34
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 8:44 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	137792	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	126768	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.07	152	71344	25.00	ppb	0.00

System Monitoring Compounds

40) Dibromofluoromethane(S)	5.78	111	67916	25.57	ppb	0.00
Spiked Amount				25.000		
						Recovery = 102.284%
45) 1,2-DCA-D4(S)	6.17	65	74617	25.09	ppb	0.00
Spiked Amount				25.000		
						Recovery = 100.360%
66) Toluene-D8(S)	8.30	98	230020	24.30	ppb	0.00
Spiked Amount				25.000		
						Recovery = 97.192%
74) 4-Bromofluorobenzene(S)	10.92	174	87273	23.29	ppb	0.00
Spiked Amount				25.000		
						Recovery = 93.148%

Target Compounds

Qvalue

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

Quantitation Report

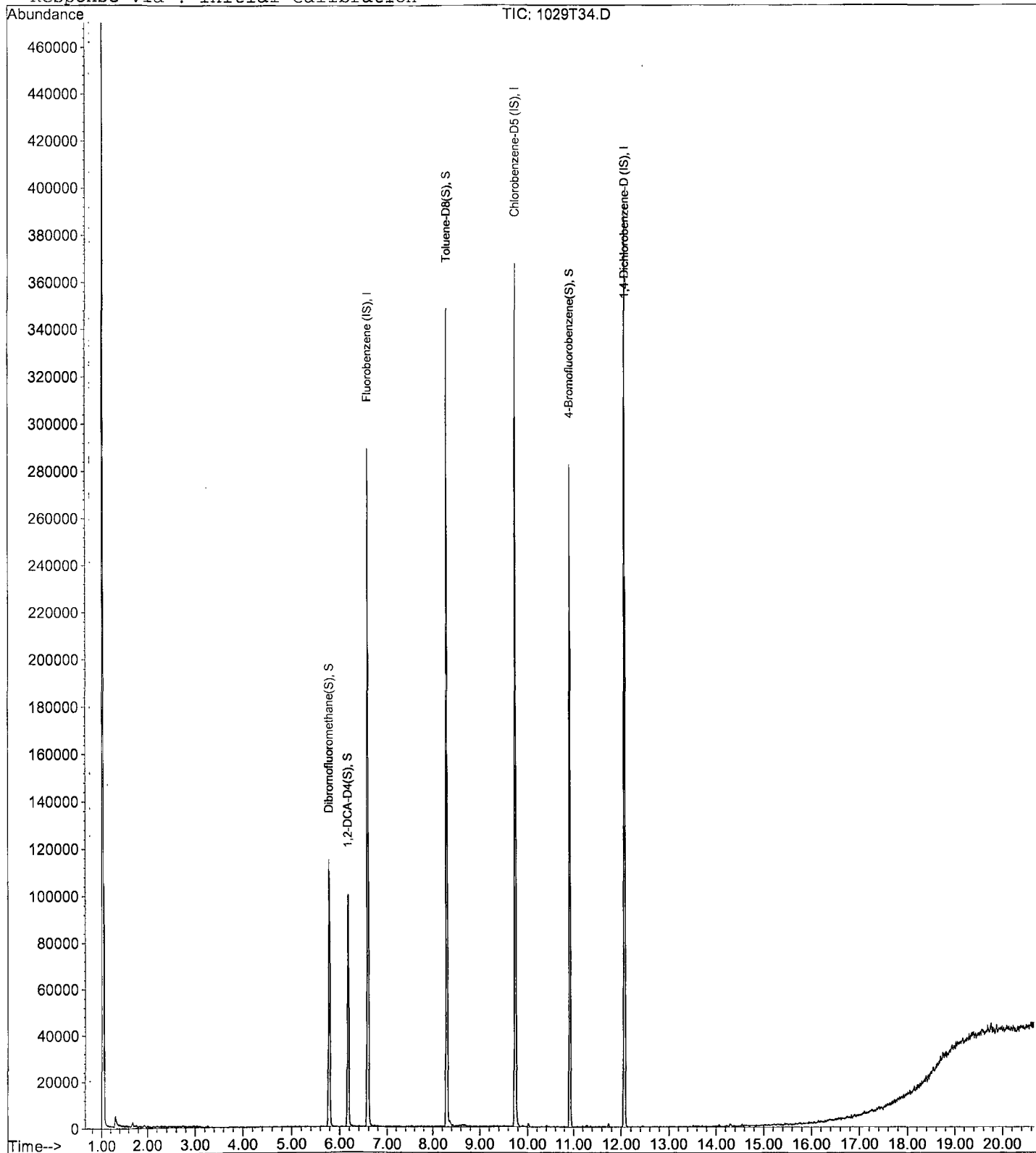
Data File : M:\THOR\DATA\T191028\1029T34.D
Acq On : 30 Oct 19 3:22
Sample : 191029B BLK
Misc : IS&S 9/23/19

Vial: 34
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 8:44 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191028\1029T30.D
 Acq On : 30 Oct 19 1:29
 Sample : 191029B LCSD 10ug/L
 Misc : IS&S 9/23/19

Vial: 30
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.59	96	148544	25.00	ppb	0.00
65) Chlorobenzene-D5 (IS)	9.74	117	136000	25.00	ppb	0.00
80) 1,4-Dichlorobenzene-D (IS)	12.06	152	79800	25.00	ppb	0.00
System Monitoring Compounds						
40) Dibromofluoromethane(S)	5.78	111	68060	23.77	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.080%	
45) 1,2-DCA-D4(S)	6.17	65	74873	23.35	ppb	0.00
Spiked Amount	25.000		Recovery	=	93.416%	
66) Toluene-D8(S)	8.30	98	240271	23.66	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.628%	
74) 4-Bromofluorobenzene(S)	10.92	174	95091	23.65	ppb	0.00
Spiked Amount	25.000		Recovery	=	94.600%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.20	85	12196	8.86	ppb	93
4) Freon 114	1.32	85	7833	12.99	ppb	96
5) Chloromethane	1.36	50	10057	9.05	ppb	96
6) Vinyl chloride	1.46	62	8779	8.72	ppb	97
8) Bromomethane	1.75	96	6072	10.09	ppb	92
9) Chloroethane	1.86	64	7370	10.17	ppb	98
10) Dichlorofluoromethane	2.06	67	18249	9.98	ppb	95
11) Trichlorofluoromethane	2.12	101	18647	9.93	ppb	98
13) Acrolein	2.55	55	5262	92.55	ppb	98
14) Acetone	2.73	43	3251	8.89	ppb	92
15) Freon-113	2.70	101	8232	10.62	ppb	92
16) 1,1-DCE	2.67	61	12655	9.51	ppb	96
18) Acetonitrile	3.05	41	12049	99.21	ppb	95
19) t-Butanol	3.52	59	8281	83.99	ppb	96
20) Methyl Acetate	3.17	43	5529	7.99	ppb	87
21) Iodomethane	2.82	142	5393	8.51	ppb	90
22) Acrylonitrile	3.61	53	2964	8.71	ppb	96
23) Methylene chloride	3.27	49	12155	10.03	ppb	92
24) Carbon disulfide	2.89	76	26473	11.61	ppb	100
25) Methyl t-butyl ether (MtBE)	3.72	73	26266	8.69	ppb	# 95
26) Trans-1,2-DCE	3.67	61	12916	9.92	ppb	# 81
28) Diisopropyl Ether	4.54	45	9330	8.25	ppb	92
30) 1,1-DCA	4.32	63	6388	8.44	ppb	97
31) Vinyl Acetate	4.54	87	8340	9.33	ppb	86
32) Ethyl tert Butyl Ether	5.05	59	26526	8.72	ppb	94
33) MEK (2-Butanone)	5.21	43	3033	7.84	ppb	99
34) Cis-1,2-DCE	5.15	61	14085	8.94	ppb	95
35) 2,2-Dichloropropane	5.15	77	5548	8.79	ppb	96
38) Chloroform	5.59	83	9525	9.22	ppb	97
39) Bromochloromethane	5.46	130	4326	9.76	ppb	94
41) 1,1,1-TCA	5.80	97	8685	10.01	ppb	92
42) Cyclohexane	5.87	84	10475	8.81	ppb	89
43) 1,1-Dichloropropene	6.01	75	11592	8.93	ppb	94
44) 2,2,4-Trimethylpentane	6.41	57	7796	8.59	ppb	93
46) Carbon Tetrachloride	6.01	119	16007	10.40	ppb	91
47) Tert Amyl Methyl Ether	6.45	73	26046	8.42	ppb	98
49) 1,2-DCA	6.26	62	8166	9.04	ppb	98
50) Benzene	6.25	78	38578	9.13	ppb	96
51) TCE	7.00	130	12309	9.39	ppb	94

(#) = qualifier out of range (m) = manual integration
 1029T30.D T1023W.M Wed Nov 20 14:02:05 2019

Data File : M:\THOR\DATA\T191028\1029T30.D
 Acq On : 30 Oct 19 1:29
 Sample : 191029B LCSD 10ug/L
 Misc : IS&S 9/23/19

Vial: 30
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Quant Method : M:\THOR\DATA\T191028\T1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:55:52 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 2-Pentanone	7.22	43	60899	92.20	ppb	97
53) 1,2-Dichloropropane	7.23	63	9407	8.76	ppb #	92
54) Bromodichloromethane	7.54	83	15386	9.35	ppb #	97
55) Methyl Cyclohexane	7.22	83	11862	9.06	ppb	97
56) Dibromomethane	7.34	174	9439	9.94	ppb	93
57) MIBK (methyl isobutyl ket	9.05	43	2247	6.77	ppb #	91
58) 1-Bromo-2-chloroethane	7.85	63	14464	10.45	ppb	96
60) Cis-1,3-Dichloropropene	8.02	75	14439	8.39	ppb	92
61) Toluene	8.36	91	43685	9.12	ppb	97
62) Trans-1,3-Dichloropropene	8.59	75	9016	8.38	ppb	92
63) 1,1,2-TCA	8.77	97	9647	8.98	ppb	98
64) 2-Hexanone	8.20	43	3146	6.47	ppb	95
67) 1,2-EDB	9.26	107	5724	8.79	ppb	89
68) Tetrachloroethene	8.92	166	13729	10.66	ppb #	92
69) 1-Chlorohexane	9.77	91	10486	8.82	ppb	95
70) 1,1,1,2-Tetrachloroethane	9.85	131	12869	9.78	ppb	95
71) m&p-Xylene	10.02	91	72211	18.33	ppb	98
72) o-Xylene	10.40	91	38451	9.13	ppb	95
73) Styrene	10.41	104	25887	8.67	ppb	97
75) 1,3-Dichloropropane	8.93	76	14658	8.64	ppb	95
76) Dibromochloromethane	9.15	129	12480	9.46	ppb	95
77) Chlorobenzene	9.77	112	19424	9.69	ppb	96
78) Ethylbenzene	9.89	91	45033	9.16	ppb	98
79) Bromoform	10.58	173	9499	8.95	ppb	94
81) Isopropylbenzene	10.78	105	44435	9.06	ppb	96
82) 1,1,2,2-Tetrachloroethane	11.05	83	10695	8.30	ppb	94
83) 1,2,3-Trichloropropane	11.09	110	3979	8.98	ppb	87
84) t-1,4-Dichloro-2-Butene	11.11	53	1938	7.26	ppb	92
85) Bromobenzene	11.06	77	10695	8.37	ppb	85
86) n-Propylbenzene	11.19	91	48410	8.88	ppb	99
87) 4-Ethyltoluene	11.31	105	43532	9.31	ppb	99
88) 2-Chlorotoluene	11.26	91	20943	9.27	ppb	97
89) 1,3,5-Trimethylbenzene	11.37	105	39462	9.49	ppb	99
90) 4-Chlorotoluene	11.37	91	24160	9.40	ppb	97
91) Tert-Butylbenzene	11.69	119	37984	10.12	ppb	99
92) 1,2,4-Trimethylbenzene	11.74	105	37682	8.84	ppb	98
93) Sec-Butylbenzene	11.91	105	43265	8.90	ppb	99
94) p-Isopropyltoluene	12.06	119	39220	9.19	ppb	96
95) Benzyl Chloride	12.22	91	6207	6.22	ppb	95
96) 1,3-DCB	12.00	146	16640	8.96	ppb	100
97) 1,4-DCB	12.09	146	27464	9.76	ppb	90
98) n-Butylbenzene	12.47	91	27537	8.49	ppb	98
99) 1,2-DCB	12.45	146	16728	9.90	ppb	97
100) Hexachloroethane	12.72	117	5179	9.97	ppb	95
101) 1,2-Dibromo-3-chloropropan	13.22	157	1587	8.57	ppb #	77
102) 1,2,4-Trichlorobenzene	14.06	182	9407	9.28	ppb	98
103) Hexachlorobutadiene	14.25	225	6260	10.08	ppb	94
104) Naphthalene	14.30	128	19895	7.76	ppb	98
105) 1,2,3-Trichlorobenzene	14.54	182	12624	8.84	ppb	85

(#) = qualifier out of range (m) = manual integration
 1029T30.D T1023W.M Wed Nov 20 14:02:06 2019

Quantitation Report

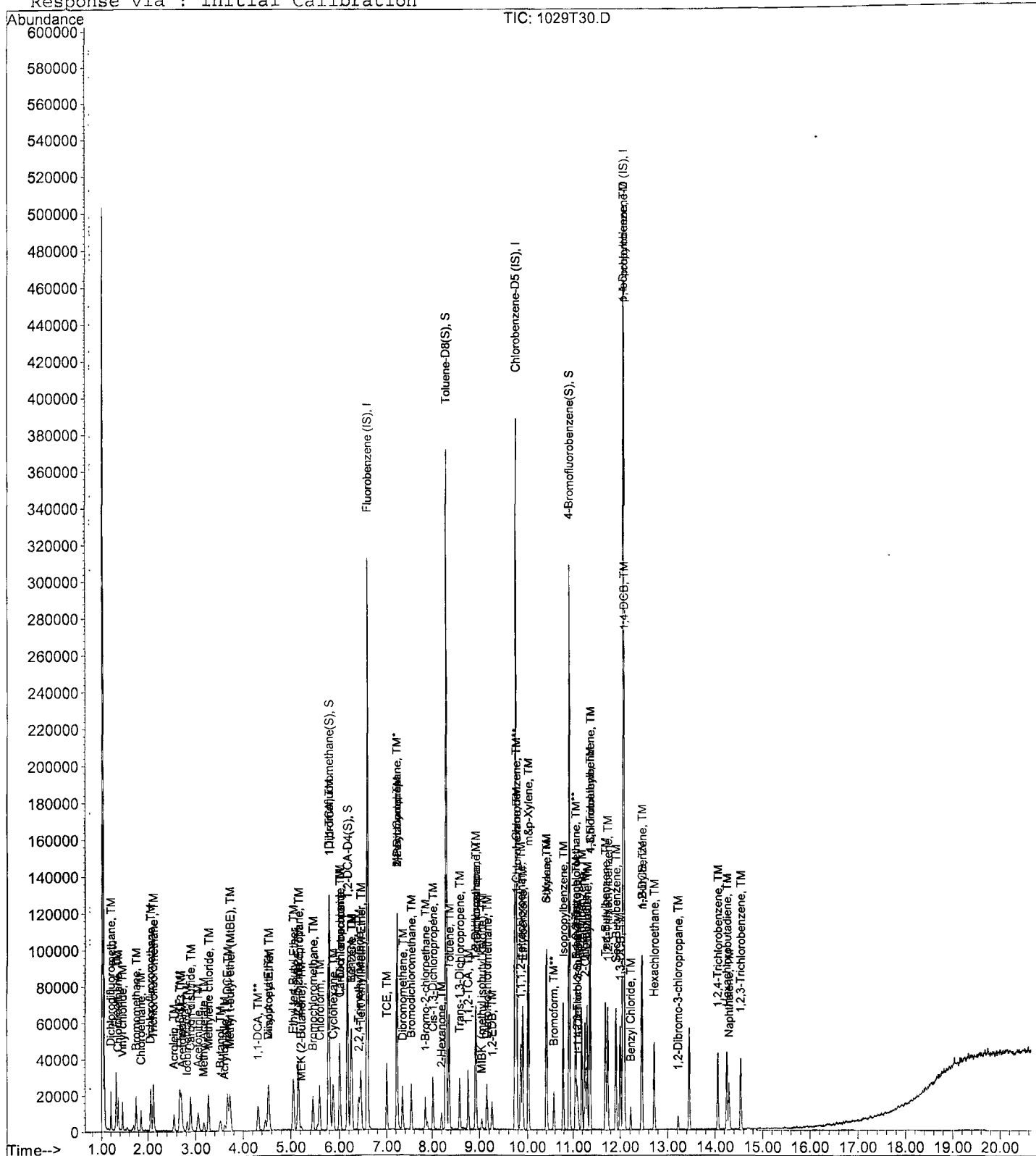
Data File : M:\THOR\DATA\T191028\1029T30.D
Acq On : 30 Oct 19 1:29
Sample : 191029B LCSD 10ug/L
Misc : IS&S 9/23/19

Vial: 30
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 8:10 2019

Quant Results File: T1023W.RES

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:55:52 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L24.D Vial: 24
 Acq On : 31 Oct 19 00:50 Operator:
 Sample : 191030 BLK Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:36 2019 Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	257024	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	249472	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	123784	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Dibromofluoromethane(S)	4.50	111	83670	26.44	ppb	0.00
Spiked Amount 25.000						Recovery = 105.760%
44) 1,2-DCA-D4(S)	4.95	65	95429	28.07	ppb	0.00
Spiked Amount 25.000						Recovery = 112.268%
65) Toluene-D8(S)	7.38	98	251875	27.75	ppb	0.00
Spiked Amount 25.000						Recovery = 110.992%
73) 4-Bromofluorobenzene(S)	10.28	95	84431	26.26	ppb	0.00
Spiked Amount 25.000						Recovery = 105.040%

Target Compounds Qvalue

Quantitation Report

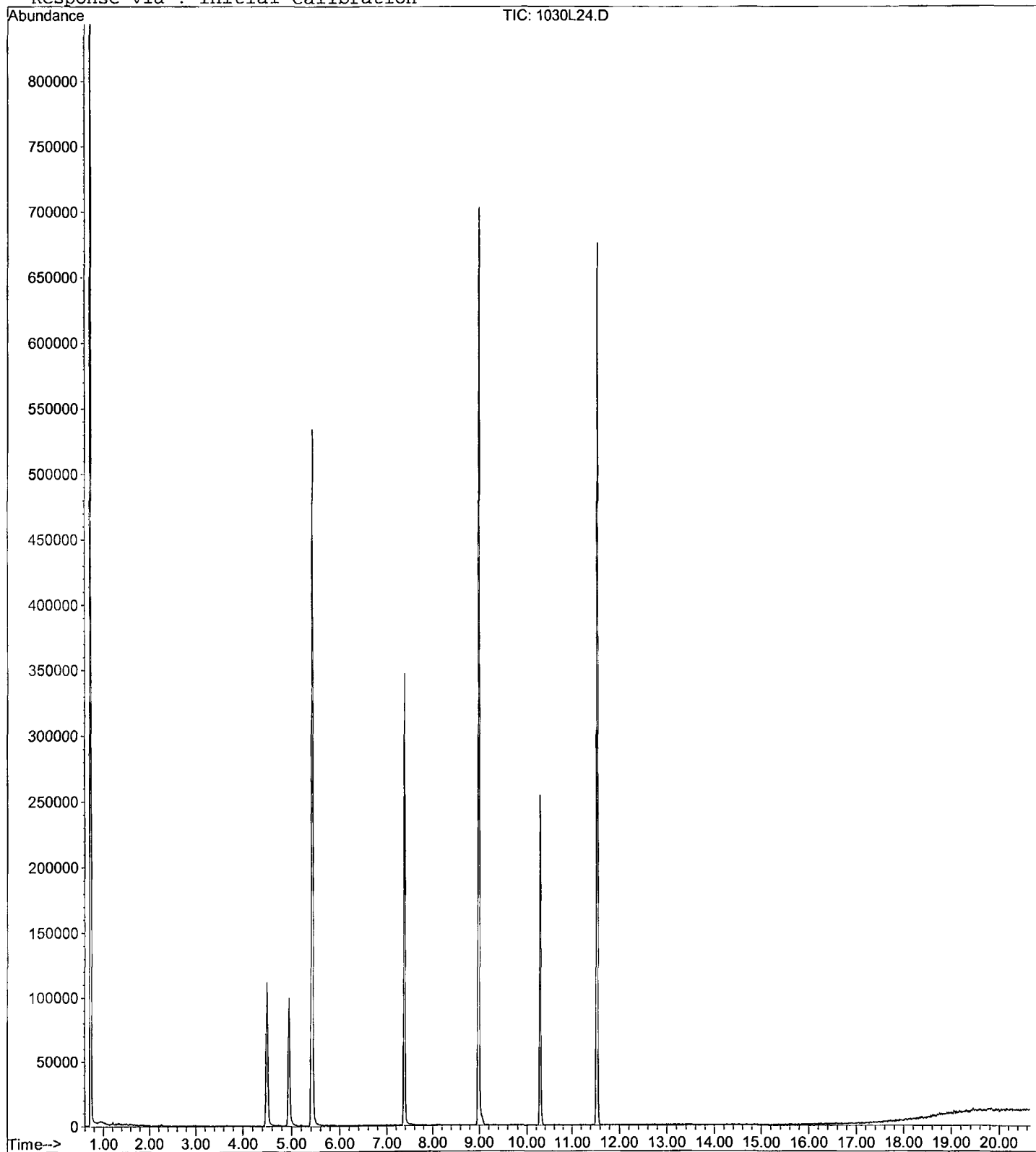
Data File : M:\LOKI\DATA\191023\1030L24.D
Acq On : 31 Oct 19 00:50
Sample : 191030 BLK
Misc : IS&S:10/7/19, 10/23/19

Vial: 24
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:36 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L19.D
 Acq On : 30 Oct 19 22:28
 Sample : 191030 LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.42	96	292736	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	276032	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156032	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	86094	23.89	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.548%	
44) 1,2-DCA-D4(S)	4.95	65	104013	26.86	ppb	0.00
Spiked Amount	25.000		Recovery	=	107.436%	
65) Toluene-D8(S)	7.38	98	275341	27.41	ppb	0.00
Spiked Amount	25.000		Recovery	=	109.656%	
73) 4-Bromofluorobenzene(S)	10.29	95	100869	28.35	ppb	0.00
Spiked Amount	25.000		Recovery	=	113.416%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	6578	9.85	ppb	96
4) Freon 114	0.91	85	14388	11.01	ppb	94
5) Chloromethane	0.94	50	14001	6.93	ppb	100
6) Vinyl chloride	1.01	62	15172	7.05	ppb	95
8) Bromomethane	1.21	94	18174	6.91	ppb	99
9) Chloroethane	1.28	64	8831	5.12	ppb	92
10) Dichlorofluoromethane	1.41	67	28627	6.91	ppb	95
11) Trichlorofluoromethane	1.45	103	22952	9.30	ppb	95
13) Acrolein	1.74	56	12979	60.21	ppb	# 97
14) Acetone	1.88	43	5461	5.65	ppb	89
15) Freon-113	1.83	101	14642	7.54	ppb	91
16) 1,1-DCE	1.82	96	14045	8.19	ppb	99
17) t-Butanol	2.43	59	15144	81.27	ppb	# 88
19) Acetonitrile	2.11	41	20030	60.80	ppb	95
20) Methyl Acetate	2.16	43	8813	5.34	ppb	97
21) Iodomethane	1.92	142	3313	3.69	ppb	88
22) Acrylonitrile	2.47	53	5845	5.64	ppb	# 79
23) Methylene chloride	2.23	84	16538	7.28	ppb	92
24) Carbon disulfide	1.97	76	30784	8.28	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	35249	8.14	ppb	92
26) Trans-1,2-DCE	2.49	96	17519	8.92	ppb	89
27) Diisopropyl Ether	3.11	45	37206	9.35	ppb	# 88
29) 1,1-DCA	2.95	63	27356	8.82	ppb	89
30) Vinyl Acetate	3.11	45	37206	9.35	ppb	# 88
31) Ethyl tert Butyl Ether	3.61	59	18240	12.83	ppb	92
32) MEK (2-Butanone)	3.82	43	1370	7.96	ppb	# 79
33) Cis-1,2-DCE	3.73	96	16458	9.77	ppb	97
34) 2,2-Dichloropropane	3.71	77	21451	9.50	ppb	# 91
37) Chloroform	4.27	83	31693	9.72	ppb	96
38) Bromochloromethane	4.09	128	10230	9.41	ppb	# 65
40) 1,1,1-TCA	4.48	97	31069	11.10	ppb	94
41) Cyclohexane	4.55	41	9203	9.30	ppb	76
42) 1,1-Dichloropropene	4.73	75	16221	9.70	ppb	89
43) 2,2,4-Trimethylpentane	5.20	57	27234	9.90	ppb	88
45) Carbon Tetrachloride	4.72	117	30323	12.23	ppb	95
46) Tert Amyl Methyl Ether	5.27	73	13609	13.60	ppb	# 91
48) 1,2-DCA	5.05	62	25291	10.64	ppb	96
49) Benzene	5.01	78	57107	9.74	ppb	97
50) TCE	5.90	130	19559	10.46	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1030L19.D L1023W.M Wed Nov 20 14:12:07 2019

Data File : M:\LOKI\DATA\191023\1030L19.D
 Acq On : 30 Oct 19 22:28
 Sample : 191030 LCS 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	70260	114.26	ppb	97
52) 1,2-Dichloropropane	6.17	63	12768	8.58	ppb	99
53) Bromodichloromethane	6.54	83	25359	10.82	ppb	96
54) Methyl Cyclohexane	6.12	83	17392	11.26	ppb	92
55) Dibromomethane	6.30	93	10507	9.08	ppb	82
57) MIBK (methyl isobutyl ket	7.31	43	8213	10.43	ppb	# 84
58) 1-Bromo-2-chloroethane	6.87	63	17154	9.31	ppb	93
59) Cis-1,3-Dichloropropene	7.08	75	19195	10.05	ppb	95
60) Toluene	7.45	91	66341	11.83	ppb	98
61) Trans-1,3-Dichloropropene	7.74	75	19270	11.56	ppb	95
62) 1,1,2-TCA	7.93	83	11346	9.48	ppb	79
63) 2-Hexanone	8.27	43	3157	10.77	ppb	97
66) 1,2-EDB	8.45	107	14073	9.86	ppb	91
67) Tetrachloroethene	8.07	166	21997	10.32	ppb	92
68) 1-Chlorohexane	9.05	91	15163	11.64	ppb	99
69) 1,1,1,2-Tetrachloroethane	9.12	131	20319	10.60	ppb	93
70) m&p-Xylene	9.30	91	102708	22.10	ppb	96
71) o-Xylene	9.72	106	24103	11.31	ppb	94
72) Styrene	9.74	104	39733	10.53	ppb	98
74) 1,3-Dichloropropane	8.11	76	21238	9.52	ppb	94
75) Dibromochloromethane	8.35	129	20383	9.80	ppb	94
76) Chlorobenzene	9.01	112	46972	10.33	ppb	89
77) Ethylbenzene	9.17	91	64774	12.09	ppb	95
78) Bromoform	9.91	173	16329	10.82	ppb	87
80) Isopropylbenzene	10.14	105	36048	11.09	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	16797	8.17	ppb	98
82) 1,2,3-Trichloropropane	10.49	110	6794	9.92	ppb	95
83) t-1,4-Dichloro-2-Butene	10.54	53	1840	8.01	ppb	84
84) Bromobenzene	10.42	156	21690	9.89	ppb	94
85) n-Propylbenzene	10.59	91	67337	10.50	ppb	100
86) 4-Ethyltoluene	10.72	105	56758	10.20	ppb	98
87) 2-Chlorotoluene	10.65	91	25768	10.40	ppb	89
88) 1,3,5-Trimethylbenzene	10.79	105	54920	10.42	ppb	100
89) 4-Chlorotoluene	10.78	126	9525	10.08	ppb	90
90) Tert-Butylbenzene	11.13	119	54656	13.40	ppb	95
91) 1,2,4-Trimethylbenzene	11.19	105	49881	10.51	ppb	100
92) Sec-Butylbenzene	11.37	105	61320	11.17	ppb	99
93) p-Isopropyltoluene	11.54	119	60446	10.90	ppb	95
94) Benzyl Chloride	11.71	91	11477	8.12	ppb	95
95) 1,3-DCB	11.46	146	39126	11.03	ppb	89
96) 1,4-DCB	11.56	146	40527	9.46	ppb	99
97) n-Butylbenzene	11.98	91	41906	11.69	ppb	97
98) 1,2-DCB	11.95	146	37277	10.46	ppb	96
99) Hexachloroethane	12.23	201	16243	14.39	ppb	87
100) 1,2-Dibromo-3-chloropropan	12.79	75	3165	11.77	ppb	98
101) 1,2,4-Trichlorobenzene	13.69	180	18310	15.70	ppb	85
102) Hexachlorobutadiene	13.90	223	5421	17.04	ppb	82
103) Naphthalene	13.94	128	24428	14.66	ppb	98
104) 1,2,3-Trichlorobenzene	14.20	182	9065	13.48	ppb	# 93

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

1030L19.D L1023W.M Wed Nov 20 14:12:08 2019

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Quantitation Report

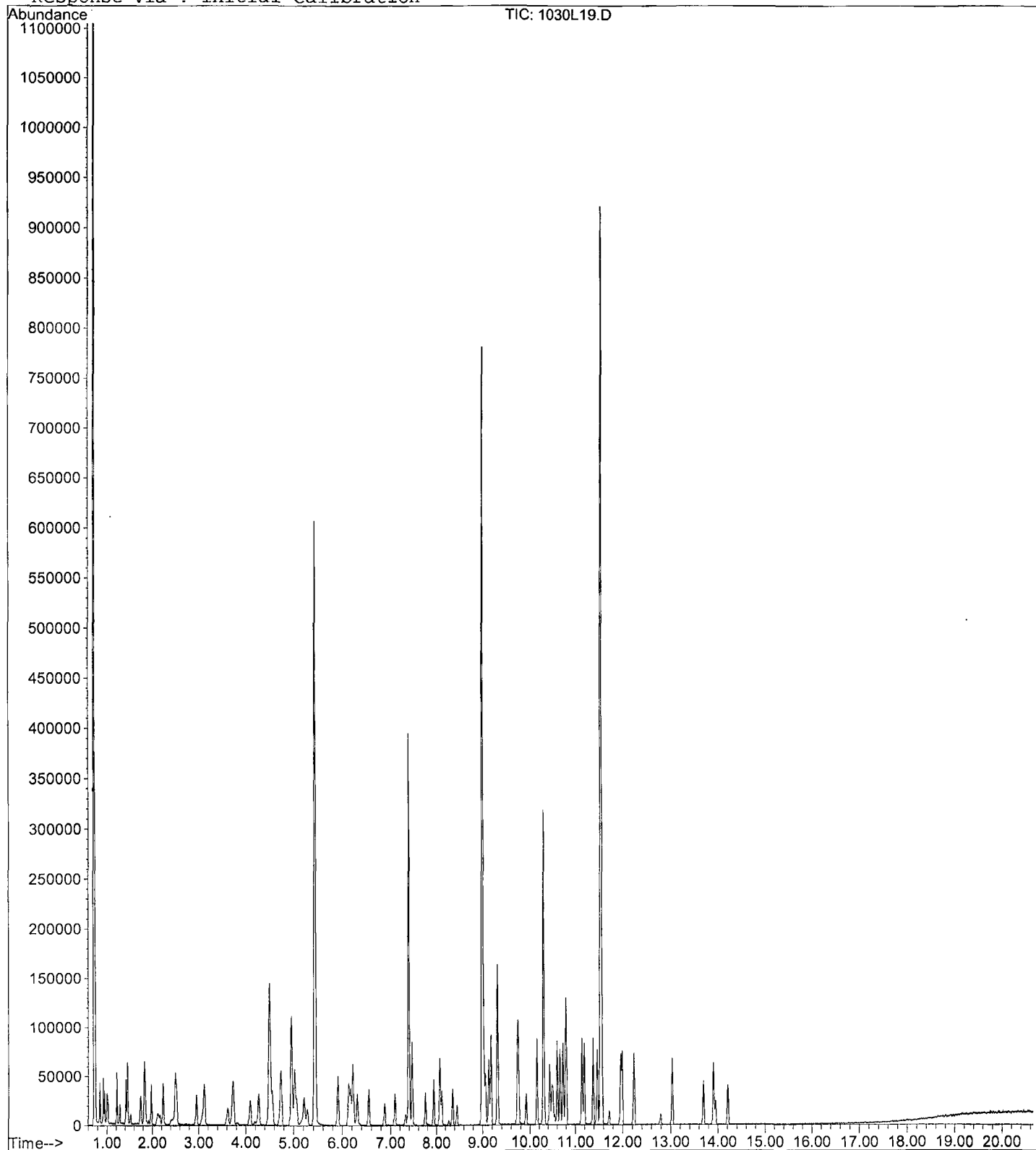
Data File : M:\LOKI\DATA\191023\1030L19.D
Acq On : 30 Oct 19 22:28
Sample : 191030 LCS 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 19
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1030L20.D
 Acq On : 30 Oct 19 22:57
 Sample : 191030 LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	96	283840	25.00	ppb	0.00
64) Chlorobenzene-D5 (IS)	8.99	117	278400	25.00	ppb	0.00
79) 1,4-Dichlorobenzene-D (IS)	11.53	152	156480	25.00	ppb	0.00
System Monitoring Compounds						
39) Dibromofluoromethane(S)	4.50	111	83830	23.99	ppb	0.00
Spiked Amount	25.000		Recovery	=	95.952%	
44) 1,2-DCA-D4(S)	4.95	65	101639	27.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	108.276%	
65) Toluene-D8(S)	7.38	98	268118	26.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	105.872%	
73) 4-Bromofluorobenzene(S)	10.28	95	100480	28.00	ppb	0.00
Spiked Amount	25.000		Recovery	=	112.016%	
Target Compounds						
3) Dichlorodifluoromethane	0.83	87	6576	10.16	ppb	Qvalue 96
4) Freon 114	0.91	85	15128	12.07	ppb	100
5) Chloromethane	0.94	50	13022	6.62	ppb	90
6) Vinyl chloride	1.01	62	13888	6.65	ppb	95
8) Bromomethane	1.21	94	17662	6.93	ppb	94
9) Chloroethane	1.27	64	9559	5.75	ppb	99
10) Dichlorofluoromethane	1.41	67	27156	6.76	ppb	93
11) Trichlorofluoromethane	1.45	103	22594	9.44	ppb	92
13) Acrolein	1.74	56	12397	59.31	ppb	# 92
14) Acetone	1.88	43	5334	5.72	ppb	98
15) Freon-113	1.83	101	13975	7.43	ppb	86
16) 1,1-DCE	1.82	96	14013	8.46	ppb	100
17) t-Butanol	2.42	59	15796	87.34	ppb	98
19) Acetonitrile	2.11	41	19714	61.72	ppb	94
20) Methyl Acetate	2.16	43	8914	5.60	ppb	93
21) Iodomethane	1.92	142	3511	3.88	ppb	91
22) Acrylonitrile	2.47	53	4923	4.55	ppb	97
23) Methylene chloride	2.23	84	16102	7.32	ppb	91
24) Carbon disulfide	1.97	76	29416	8.16	ppb	97
25) Methyl t-butyl ether (MtBE)	2.52	73	34368	8.18	ppb	92
26) Trans-1,2-DCE	2.49	96	15932	8.31	ppb	87
27) Diisopropyl Ether	3.11	45	33953	8.80	ppb	90
29) 1,1-DCA	2.95	63	26351	8.76	ppb	93
30) Vinyl Acetate	3.11	45	33953	8.80	ppb	90
31) Ethyl tert Butyl Ether	3.61	59	16749	12.15	ppb	90
32) MEK (2-Butanone)	3.82	43	1491	8.85	ppb	98
33) Cis-1,2-DCE	3.72	96	16373	10.04	ppb	89
34) 2,2-Dichloropropane	3.71	77	20159	9.21	ppb	93
37) Chloroform	4.27	83	30788	9.73	ppb	93
38) Bromochloromethane	4.09	128	10196	9.68	ppb	# 59
40) 1,1,1-TCA	4.48	97	30756	11.33	ppb	98
41) Cyclohexane	4.54	41	8533	8.90	ppb	84
42) 1,1-Dichloropropene	4.74	75	16169	9.97	ppb	90
43) 2,2,4-Trimethylpentane	5.20	57	27198	10.20	ppb	87
45) Carbon Tetrachloride	4.72	117	28661	11.92	ppb	96
46) Tert Amyl Methyl Ether	5.27	73	13176	13.58	ppb	# 86
48) 1,2-DCA	5.05	62	23656	10.26	ppb	98
49) Benzene	5.01	78	54367	9.57	ppb	95
50) TCE	5.90	130	19301	10.65	ppb	# 82

(#) = qualifier out of range (m) = manual integration
 1030L20.D L1023W.M Wed Nov 20 14:12:09 2019

Data File : M:\LOKI\DATA\191023\1030L20.D
 Acq On : 30 Oct 19 22:57
 Sample : 191030 LCSD 10ug/L
 Misc : IS&S:10/7/19, 10/23/19

Vial: 20
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant. Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

Quant Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) 2-Pentanone	6.21	43	68050	114.13	ppb	94
52) 1,2-Dichloropropane	6.17	63	13429	9.31	ppb	98
53) Bromodichloromethane	6.54	83	24195	10.65	ppb	97
54) Methyl Cyclohexane	6.12	83	16641	11.11	ppb	98
55) Dibromomethane	6.30	93	10943	9.76	ppb	83
57) MIBK (methyl isobutyl ket	7.31	43	8008	10.49	ppb	96
58) 1-Bromo-2-chloroethane	6.87	63	16339	9.15	ppb	94
59) Cis-1,3-Dichloropropene	7.08	75	19800	10.69	ppb	88
60) Toluene	7.45	91	61503	11.31	ppb	95
61) Trans-1,3-Dichloropropene	7.74	75	18902	11.69	ppb	91
62) 1,1,2-TCA	7.93	83	11275	9.71	ppb	90
63) 2-Hexanone	8.27	43	3004	10.59	ppb	# 86
66) 1,2-EDB	8.45	107	13115	9.11	ppb	# 76
67) Tetrachloroethene	8.07	166	22338	10.39	ppb	97
68) 1-Chlorohexane	9.05	91	14400	10.96	ppb	91
69) 1,1,1,2-Tetrachloroethane	9.12	131	20173	10.42	ppb	86
70) m&p-Xylene	9.30	91	99476	21.30	ppb	98
71) o-Xylene	9.72	106	23877	11.11	ppb	92
72) Styrene	9.74	104	38170	10.10	ppb	97
74) 1,3-Dichloropropane	8.11	76	22076	9.81	ppb	96
75) Dibromochloromethane	8.35	129	21111	10.06	ppb	99
76) Chlorobenzene	9.01	112	44147	9.63	ppb	88
77) Ethylbenzene	9.17	91	63563	11.76	ppb	92
78) Bromoform	9.91	173	16501	10.84	ppb	94
80) Isopropylbenzene	10.14	105	35064	10.76	ppb	99
81) 1,1,2,2-Tetrachloroethane	10.47	83	15443	7.26	ppb	95
82) 1,2,3-Trichloropropane	10.49	110	6118	8.87	ppb	94
83) t-1,4-Dichloro-2-Butene	10.53	53	2061	8.94	ppb	92
84) Bromobenzene	10.43	156	20862	9.48	ppb	91
85) n-Propylbenzene	10.59	91	65020	10.14	ppb	97
86) 4-Ethyltoluene	10.72	105	57652	10.31	ppb	98
87) 2-Chlorotoluene	10.65	91	26960	10.85	ppb	83
88) 1,3,5-Trimethylbenzene	10.79	105	53082	10.07	ppb	97
89) 4-Chlorotoluene	10.77	126	9777	10.32	ppb	89
90) Tert-Butylbenzene	11.13	119	46803	11.44	ppb	97
91) 1,2,4-Trimethylbenzene	11.19	105	51080	10.70	ppb	97
92) Sec-Butylbenzene	11.37	105	62899	11.42	ppb	99
93) p-Isopropyltoluene	11.54	119	55876	10.05	ppb	92
94) Benzyl Chloride	11.71	91	11961	8.44	ppb	99
95) 1,3-DCB	11.46	146	39442	11.09	ppb	96
96) 1,4-DCB	11.56	146	39609	9.22	ppb	99
97) n-Butylbenzene	11.98	91	39709	11.05	ppb	# 92
98) 1,2-DCB	11.95	146	36255	10.14	ppb	96
99) Hexachloroethane	12.23	201	15500	13.73	ppb	93
100) 1,2-Dibromo-3-chloropropan	12.79	75	3010	11.17	ppb	89
101) 1,2,4-Trichlorobenzene	13.69	180	18087	15.50	ppb	87
102) Hexachlorobutadiene	13.90	223	5976	18.61	ppb	# 69
103) Naphthalene	13.94	128	24483	14.65	ppb	93
104) 1,2,3-Trichlorobenzene	14.20	182	8580	12.87	ppb	99

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

1030L20.D L1023W.M Wed Nov 20 14:12:10 2019

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Quantitation Report

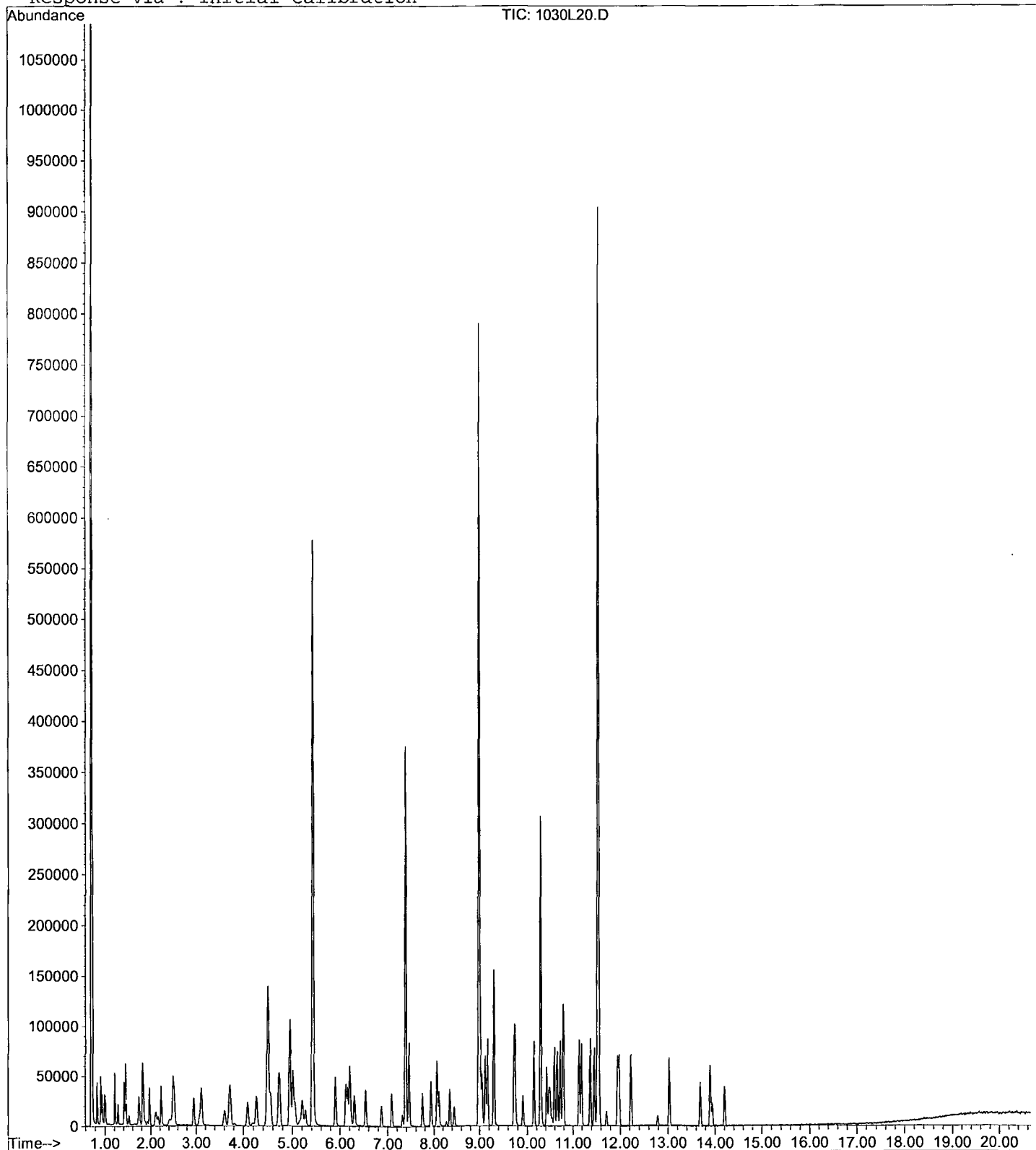
Data File : M:\LOKI\DATA\191023\1030L20.D
Acq On : 30 Oct 19 22:57
Sample : 191030 LCSD 10ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 20
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 7:56 2019

Quant Results File: L1023W.RES

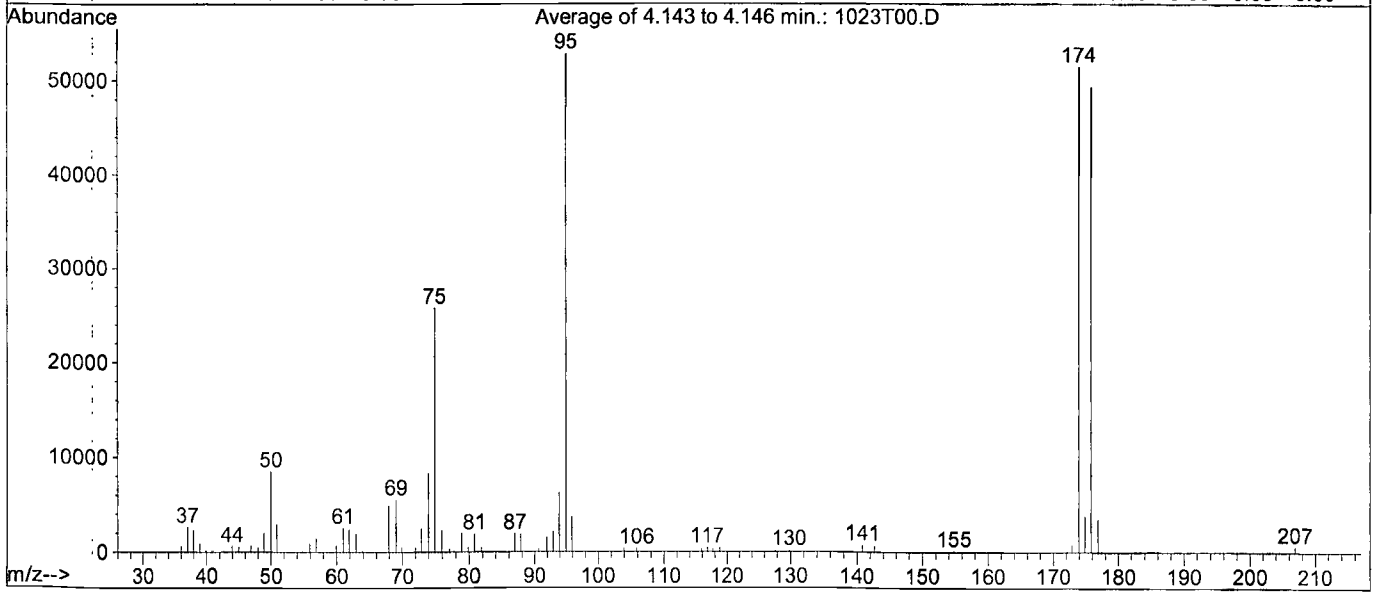
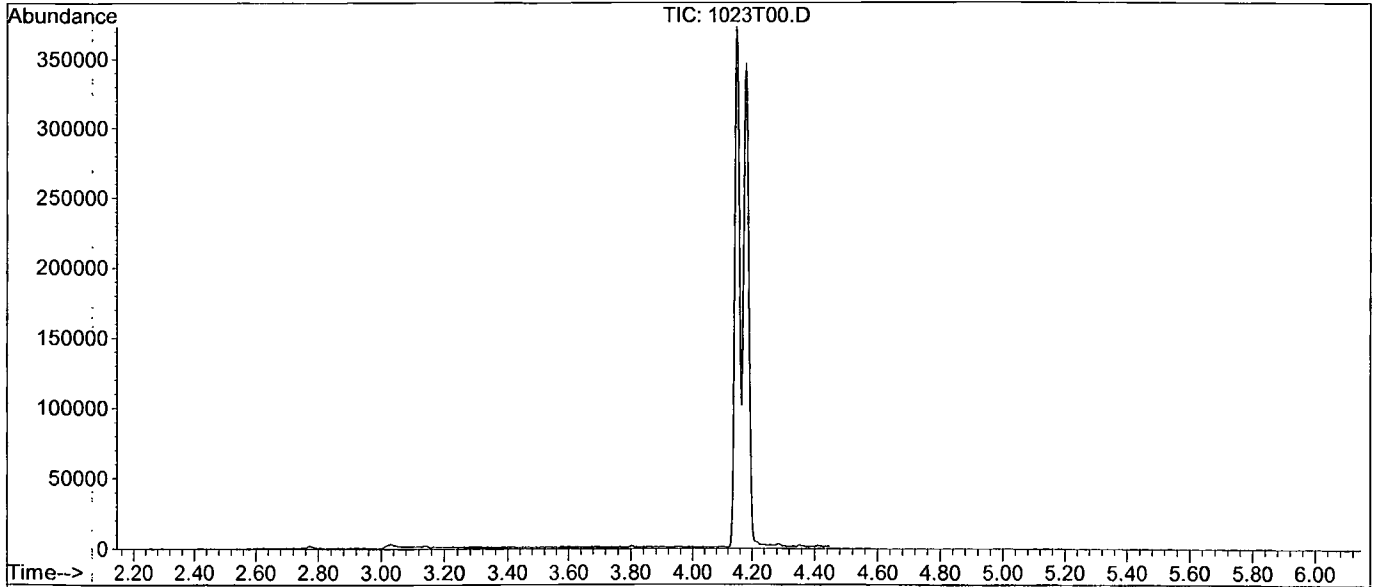
Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T00.D
 Acq On : 23 Oct 19 16:48
 Sample : 25ug/L BFBSTD 10/10/19
 Misc : 2ul BFB

Vial: 1
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\LOKI\DATA\191017\L1017S.M (RTE Integrator)
 Title : METHOD 8260B



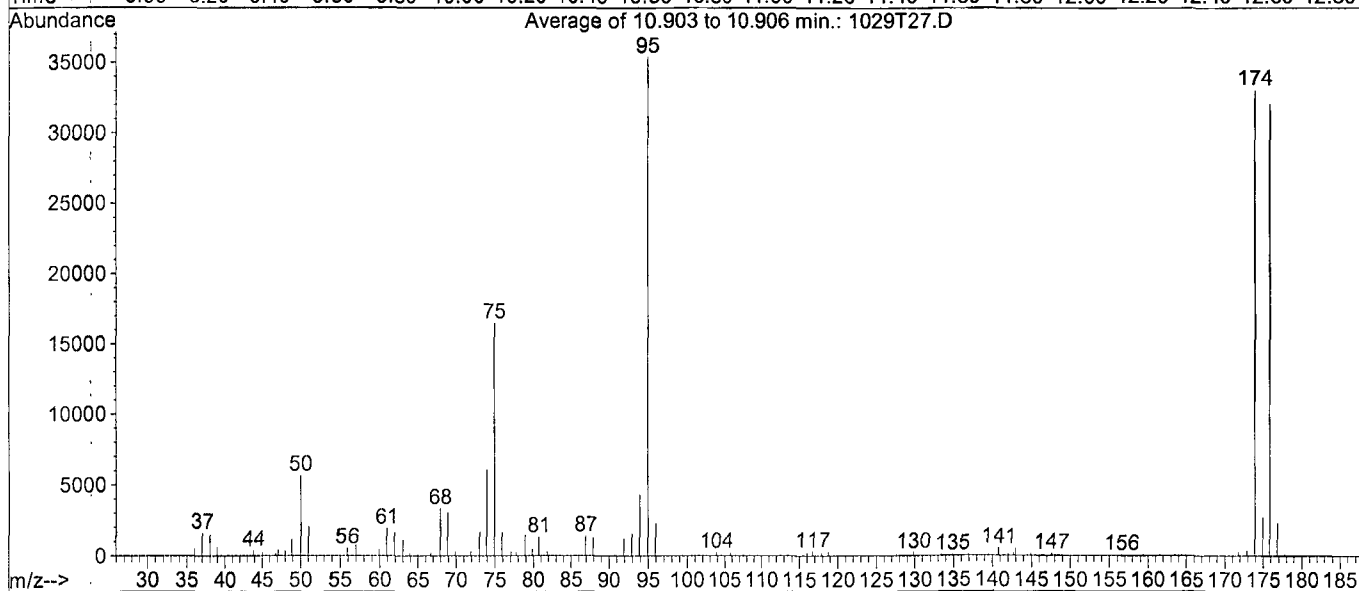
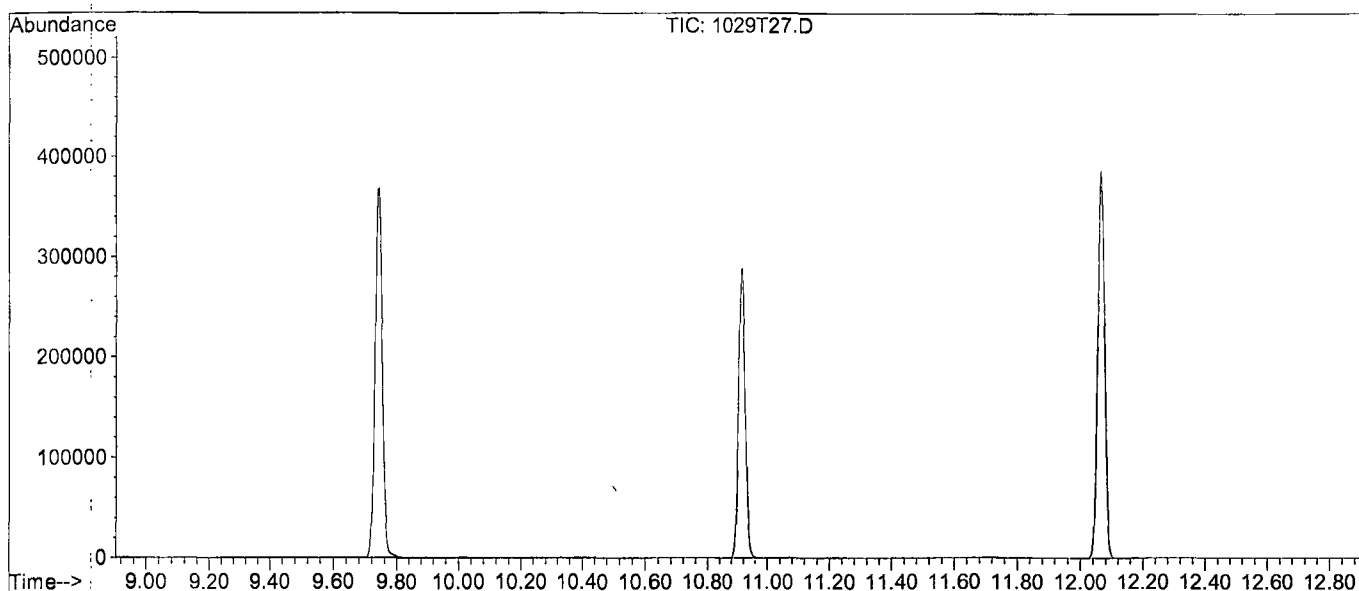
Spectrum Information: Average of 4.143 to 4.146 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	8507	PASS
75	95	30	60	48.8	25764	PASS
95	95	100	100	100.0	52848	PASS
96	95	5	9	7.0	3705	PASS
173	174	0.00	2	1.5	760	PASS
174	95	50	200	97.4	51468	PASS
175	174	5	9	7.4	3817	PASS
176	174	95	100	95.9	49368	PASS
177	176	5	9	7.0	3443	PASS

Data File : M:\THOR\DATA\T191028\1029T27.D
 Acq On : 30 Oct 19 00:04
 Sample : 25ug/L BFBSTD 9/24/19
 Misc : IS&S 9/23/19

Vial: 27
 Operator:
 Inst : Thor
 Multiplr: 1.00

Method : M:\THOR\DATA\T191023\T1023W.M (RTE Integrator)
 Title : METHOD 8260B



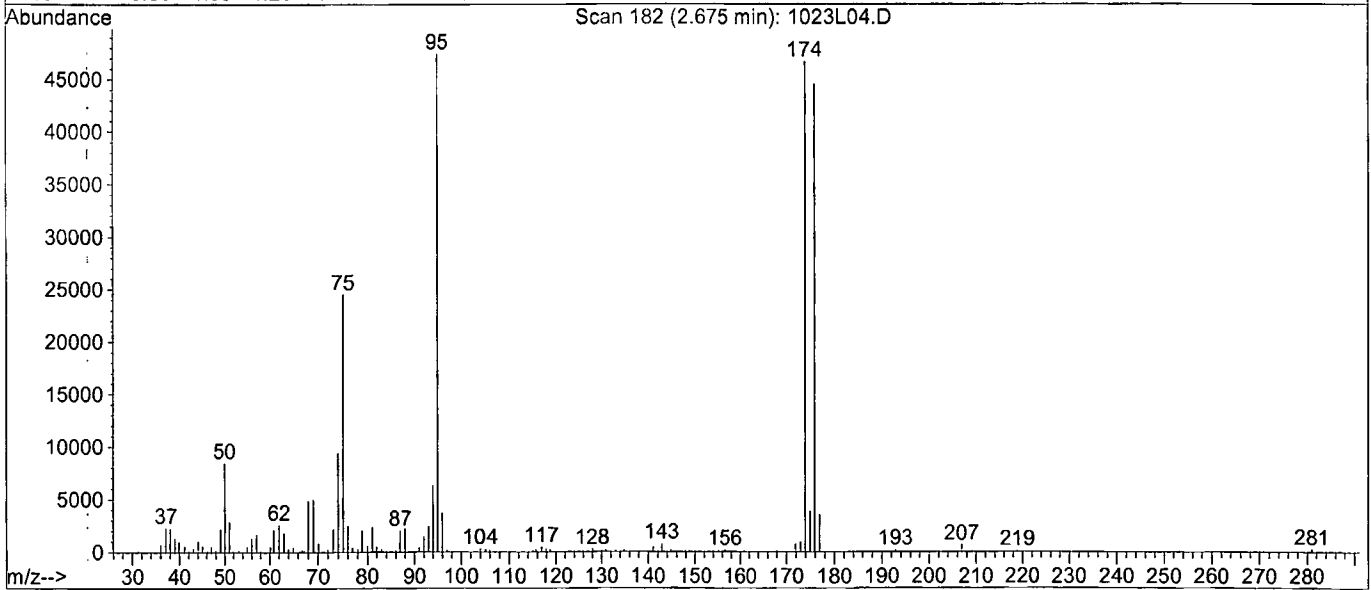
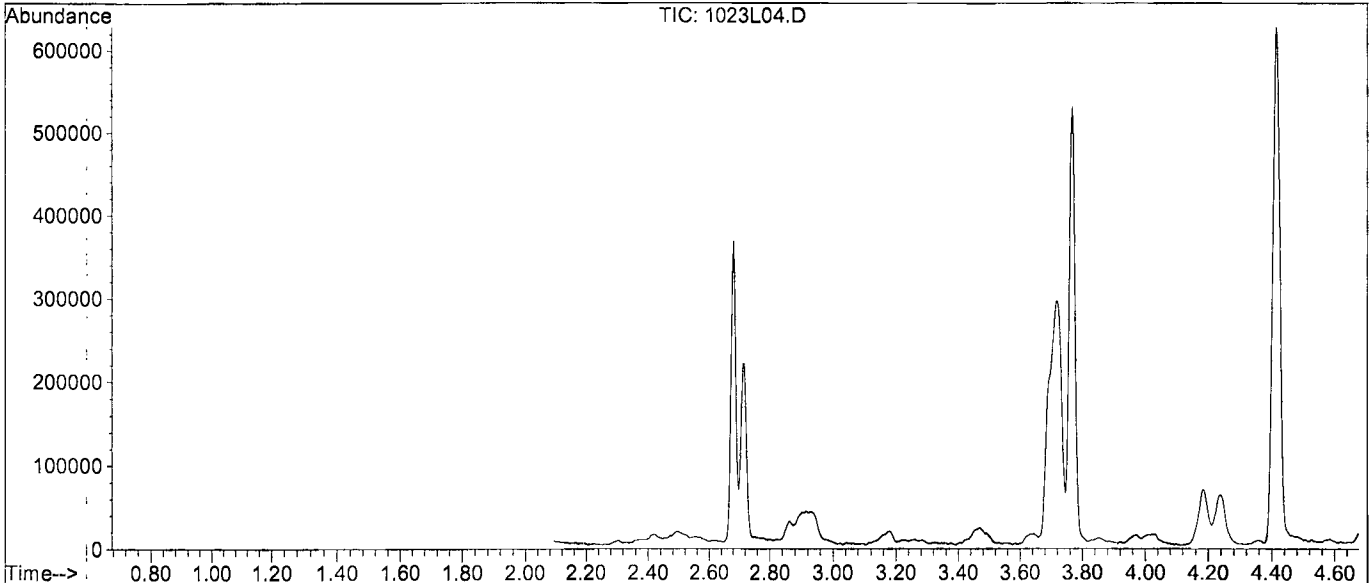
Spectrum Information: Average of 10.903 to 10.906 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	5636	PASS
75	95	30	60	46.5	16459	PASS
95	95	100	100	100.0	35360	PASS
96	95	5	9	6.5	2281	PASS
173	174	0.00	2	1.0	339	PASS
174	95	50	200	93.5	33072	PASS
175	174	5	9	8.1	2684	PASS
176	174	95	101	97.0	32092	PASS
177	176	5	9	7.1	2271	PASS

Data File : M:\LOKI\DATA\191023\1023L04.D
 Acq On : 23 Oct 19 17:01
 Sample : 25ug/L BFB STD 8/11/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 1
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



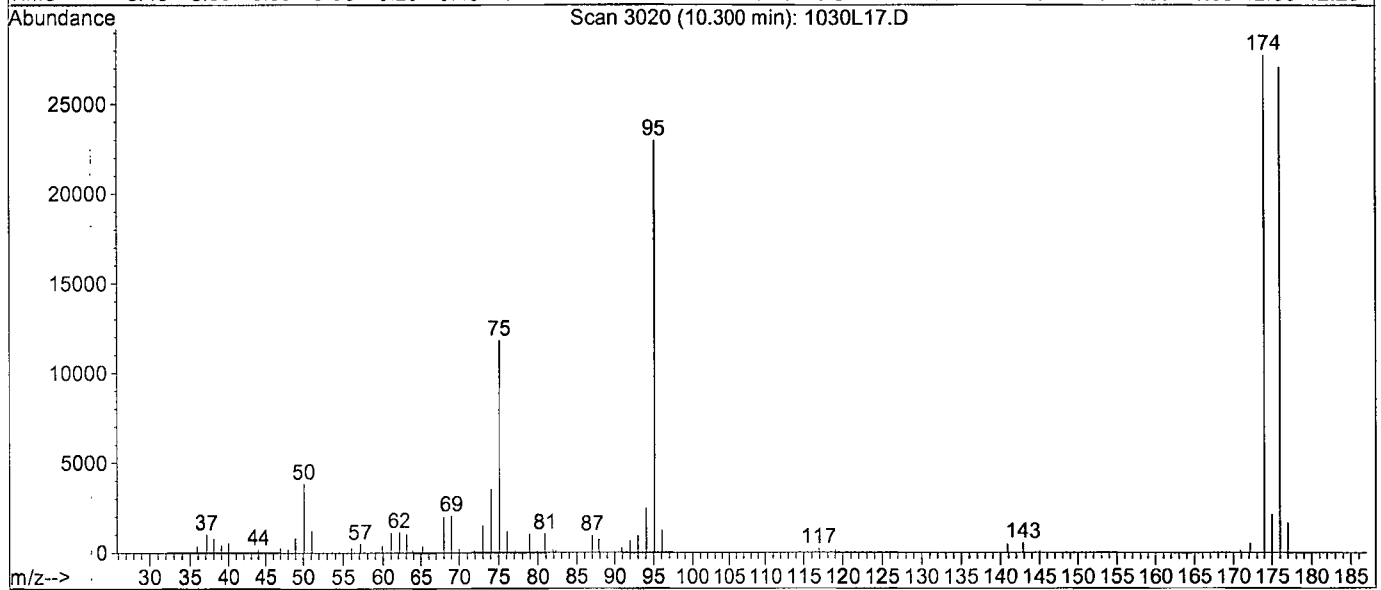
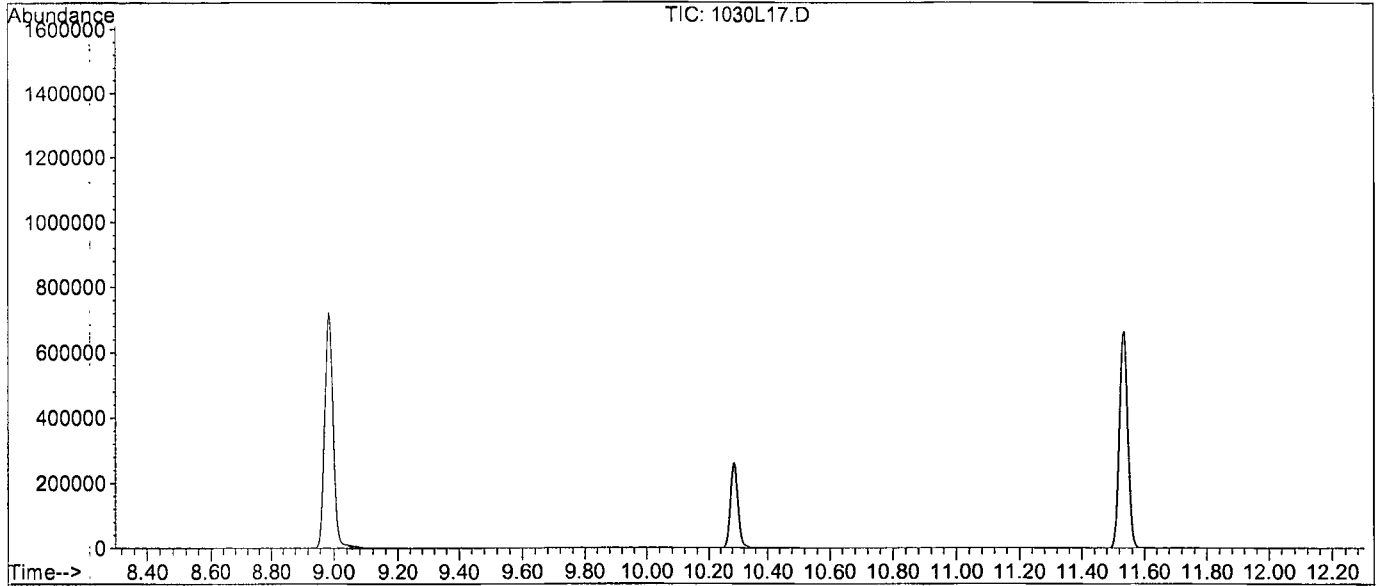
Spectrum Information: Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8472	PASS
75	95	30	60	51.6	24496	PASS
95	95	100	100	100.0	47432	PASS
96	95	5	9	7.8	3715	PASS
173	174	0.00	2	1.9	909	PASS
174	95	50	200	98.4	46696	PASS
175	174	5	9	8.2	3836	PASS
176	174	95	101	95.4	44536	PASS
177	176	5	9	7.9	3519	PASS

Data File : M:\LOKI\DATA\191023\1030L17.D
 Acq On : 30 Oct 19 21:31
 Sample : 25ug/L BFB STD 10/10/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 17
 Operator:
 Inst : Loki
 Multiplr: 1.00

Method : M:\LOKI\DATA\191023\L1023W.M (RTE Integrator)
 Title : METHOD 8260B



Spectrum Information: Scan 3020

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	3828	PASS
75	95	30	60	51.4	11822	PASS
95	95	100	100	100.0	22984	PASS
96	95	5	9	5.3	1214	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	120.9	27784	PASS
175	174	5	9	7.6	2122	PASS
176	174	95	101	97.5	27096	PASS
177	176	5	9	6.2	1690	PASS

Injection Log

Directory: M:\THOR\DATA\T191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1023T00.D	1	25ug/L BFBSTD 10/10/19	2ul BFB	23 Oct 19 16:48
6	1023T06.D	1	0.3ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 19:32
7	1023T07.D	1	0.5ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:01
8	1023T08.D	1	1.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:29
9	1023T09.D	1	2.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 20:58
10	1023T10.D	1	5.0ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:26
11	1023T11.D	1	10ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 21:55
12	1023T12.D	1	20ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:23
13	1023T13.D	1	40ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 22:52
14	1023T14.D	1	100ug/L VOC STD 10/23/19	IS&S 9/23/19	23 Oct 19 23:20
16	1023T16.D	1	(SS)10ug/L VOC STD 10/23/19	IS&S 9/23/19	24 Oct 19 00:17
27	1029T27.D	1	25ug/L BFBSTD 9/24/19	IS&S 9/23/19	30 Oct 19 00:04
29	1029T29.D	1	191029B CCV/LCS 10ug/L	IS&S 9/23/19	30 Oct 19 1:00
30	1029T30.D	1	191029B LCSD 10ug/L	IS&S 9/23/19	30 Oct 19 1:29
34	1029T34.D	1	191029B BLK	IS&S 9/23/19	30 Oct 19 3:22
35	1029T35.D	1	BA01828W01	IS&S 9/23/19	30 Oct 19 3:50
36	1029T36.D	1	BA01832W01	IS&S 9/23/19	30 Oct 19 4:18
37	1029T37.D	1	BA01829W01	IS&S 9/23/19	30 Oct 19 4:47
38	1029T38.D	1	BA01831W01	IS&S 9/23/19	30 Oct 19 5:15
40	1029T40.D	1	BA01830W01	IS&S 9/23/19	30 Oct 19 6:12
47	1029T47.D	1	Ending CCV 10ug/L 10/29/19	IS&S 9/23/19	30 Oct 19 9:29

Injection Log

Directory: M:\LOKI\DATA\191023\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1023L04.D	1	25ug/L BFB STD 8/11/19	IS&S:10/7/19, 10/23/19	23 Oct 19 17:01
6	1023L10.D	1	0.3ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:30
7	1023L11.D	1	0.5ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 19:59
8	1023L12.D	1	1.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:27
9	1023L13.D	1	2.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 20:56
10	1023L14.D	1	5.0ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:24
11	1023L15.D	1	10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 21:53
12	1023L16.D	1	20ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:21
13	1023L17.D	1	40ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 22:50
14	1023L18.D	1	100ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	23 Oct 19 23:18
16	1023L20.D	1	(SS)10ug/L VOC STD 10/23/19	IS&S:10/7/19, 10/23/19	24 Oct 19 00:15
17	1030L17.D	1	25ug/L BFB STD 10/10/19	IS&S:10/7/19, 10/23/19	30 Oct 19 21:31
18	1030L18.D	1	191030 CCV 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:00
19	1030L19.D	1	191030 LCS 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:28
20	1030L20.D	1	191030 LCSD 10ug/L	IS&S:10/7/19, 10/23/19	30 Oct 19 22:57
24	1030L24.D	1	191030 BLK	IS&S:10/7/19, 10/23/19	31 Oct 19 00:50
28	1030L28.D	1	BA01833W03	IS&S:10/7/19, 10/23/19	31 Oct 19 2:44
42	1030L42.D	1	Ending CCV 10ug/L 10/29/19	IS&S:10/7/19, 10/23/19	31 Oct 19 9:21

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Loki

Initials: _____

1023L10.D 1023L11.D 1023L12.D 1023L13.D 1023L14.D 1023L15.D 1023L16.D 1023L17.D 1023L18.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.3406	0.3461	0.3014	0.2861	0.3148	0.3028	0.3008	0.3009	0.2768		0.31	7.4	S			
3	S 1,2-DCA-D4(S)	0.3898	0.3620	0.3144	0.3179	0.3317	0.3194	0.3260	0.3191	0.2961		0.33	8.5	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	0.9820	0.8884	0.7696	0.7969	0.9102	0.9059	0.9670	1.005	0.9617		0.91	9.0	S			
6	S 4-Bromofluorobenzene(S)	0.3127	0.3125	0.2638	0.2714	0.3099	0.3265	0.3547	0.3831	0.3652		0.32	12	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
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32																	
33																	
34																	
35																	

Data File : M:\LOKI\DATA\191023\1023L10.D Vial: 6
 Acq On : 23 Oct 19 19:30 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225984	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	199488	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	86008	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	15394	5.53	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		22.132%
3) 1,2-DCA-D4(S)	4.95	65	17619	5.89	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		23.576%
5) Toluene-D8(S)	7.38	98	39179	5.40	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		21.592%
6) 4-Bromofluorobenzene(S)	10.28	95	12477	4.85	ppb	0.00
Spiked Amount				25.000		
			Recovery	=		19.412%

Target Compounds Qvalue

Quantitation Report

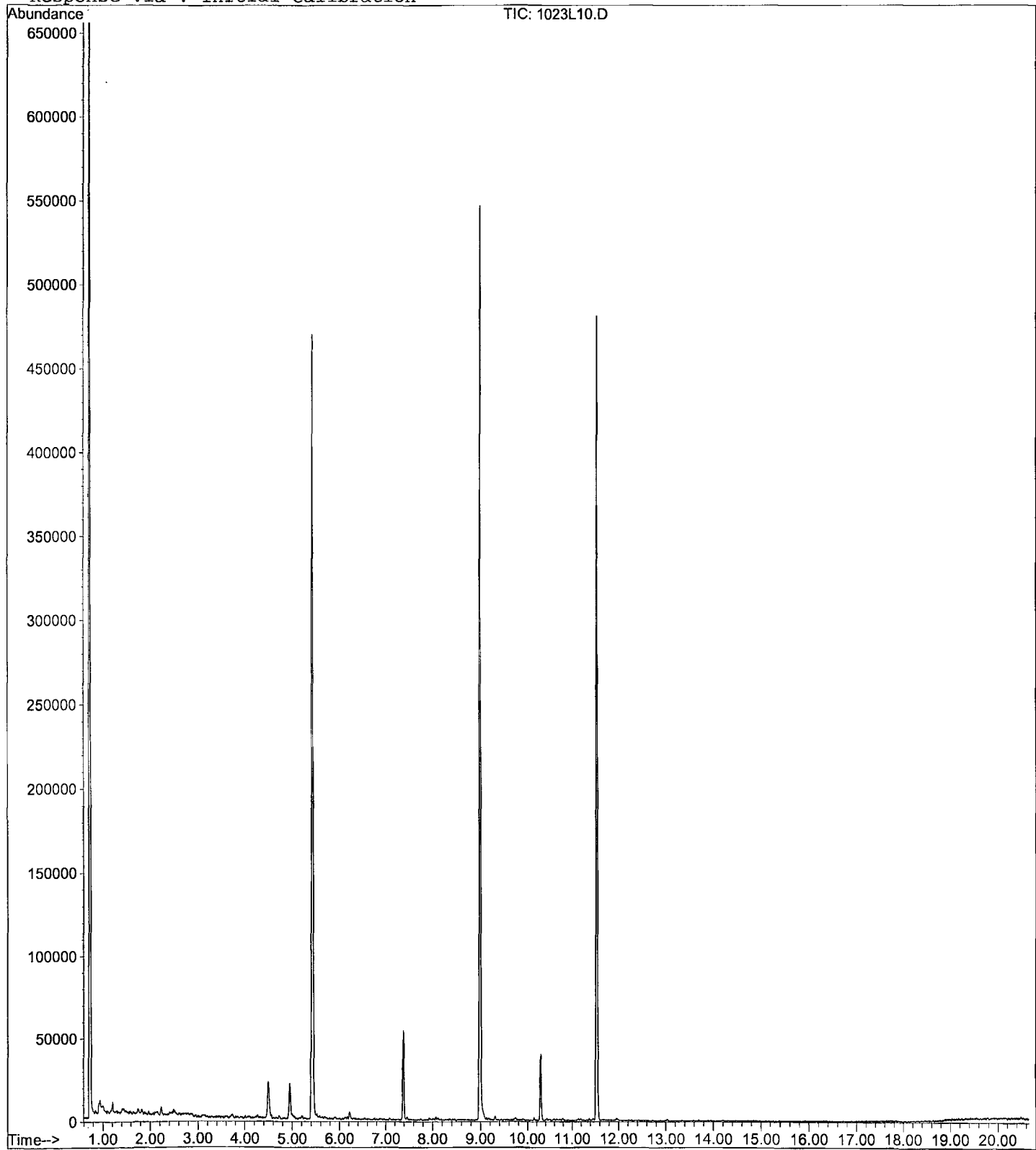
Data File : M:\LOKI\DATA\191023\1023L10.D
Acq On : 23 Oct 19 19:30
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 6
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L11.D
 Acq On : 23 Oct 19 19:59
 Sample : 0.5ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 7
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	225024	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	211584	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	86064	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	4.50	111	15575	5.62	ppb	0.00
Spiked Amount 25.000			Recovery	=	22.488%	
3) 1,2-DCA-D4(S)	4.95	65	16291	5.47	ppb	0.00
Spiked Amount 25.000			Recovery	=	21.892%	
5) Toluene-D8(S)	7.38	98	37595	4.88	ppb	0.00
Spiked Amount 25.000			Recovery	=	19.532%	
6) 4-Bromofluorobenzene(S)	10.29	95	13224	4.85	ppb	0.00
Spiked Amount 25.000			Recovery	=	19.396%	

Target Compounds

Qvalue

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

Quantitation Report

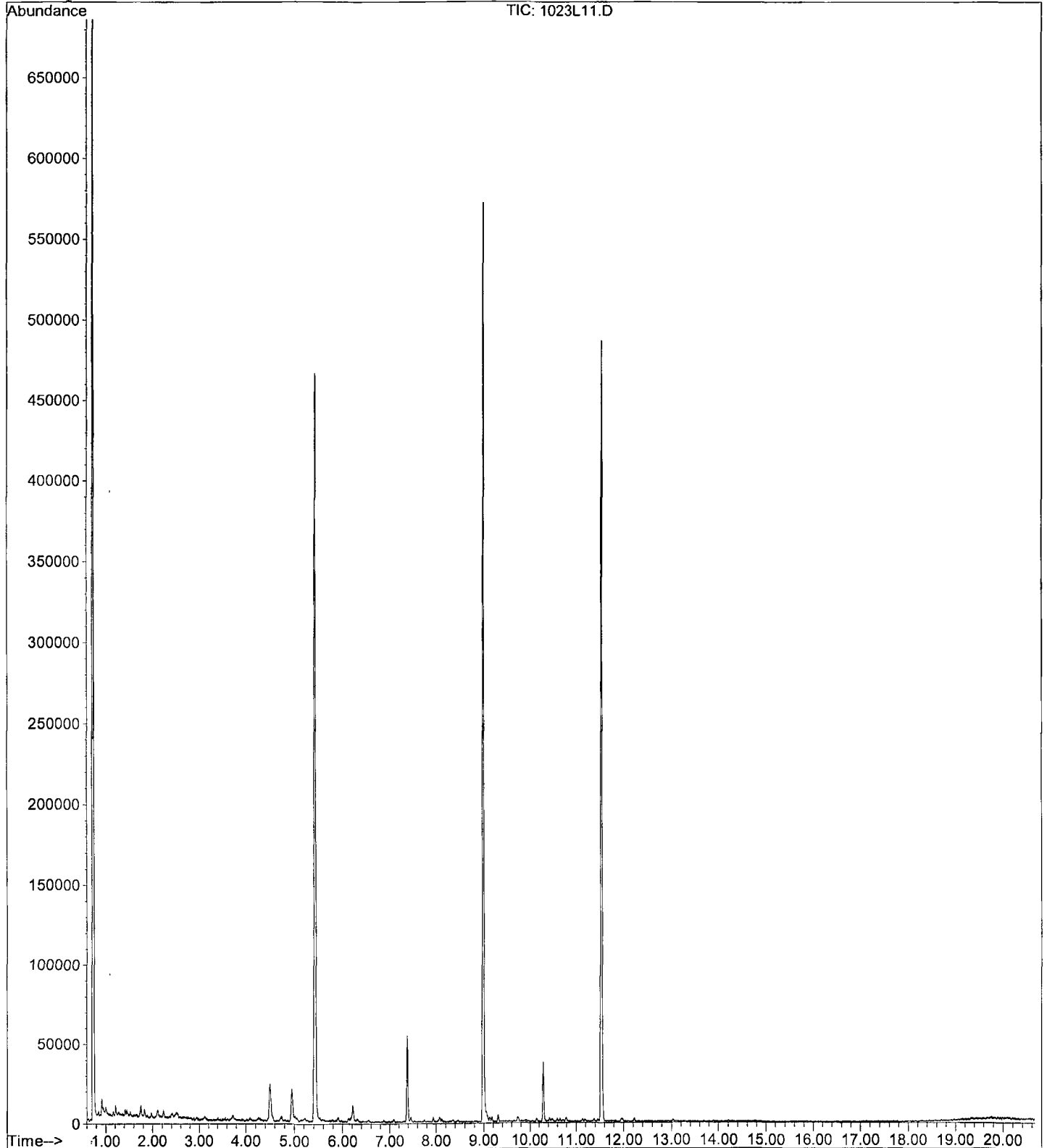
Data File : M:\LOKI\DATA\191023\1023L11.D
Acq On : 23 Oct 19 19:59
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 7
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L12.D Vial: 8
 Acq On : 23 Oct 19 20:27 Operator:
 Sample : 1.0ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	229568	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	208192	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	84280	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	27680	9.79	ppb	0.00
Spiked Amount			Recovery	=	39.172%	
3) 1,2-DCA-D4(S)	4.95	65	28867	9.51	ppb	0.00
Spiked Amount			Recovery	=	38.020%	
5) Toluene-D8(S)	7.38	98	64087	8.46	ppb	0.00
Spiked Amount			Recovery	=	33.840%	
6) 4-Bromofluorobenzene(S)	10.28	95	21968	8.19	ppb	0.00
Spiked Amount			Recovery	=	32.748%	

Target Compounds Qvalue

Quantitation Report

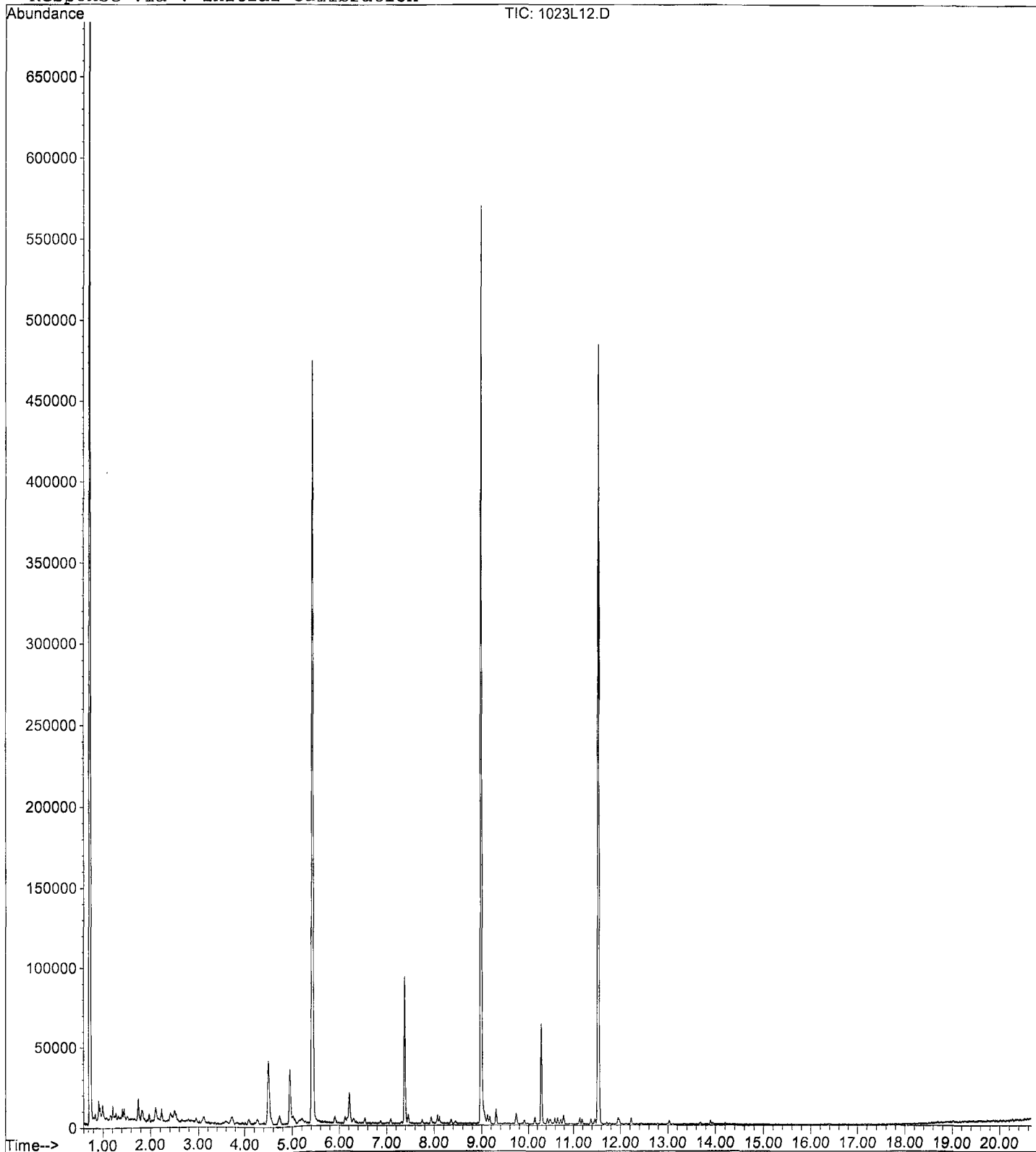
Data File : M:\LOKI\DATA\191023\1023L12.D
Acq On : 23 Oct 19 20:27
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 8
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L13.D
 Acq On : 23 Oct 19 20:56
 Sample : 2.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 9
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	226304	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	202496	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	90448	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	25895	9.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.176%	
3) 1,2-DCA-D4(S)	4.95	65	28773	9.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.444%	
5) Toluene-D8(S)	7.38	98	64548	8.76	ppb	0.00
Spiked Amount	25.000		Recovery	=	35.040%	
6) 4-Bromofluorobenzene(S)	10.29	95	21984	8.42	ppb	0.00
Spiked Amount	25.000		Recovery	=	33.696%	

Target Compounds Qvalue

Quantitation Report

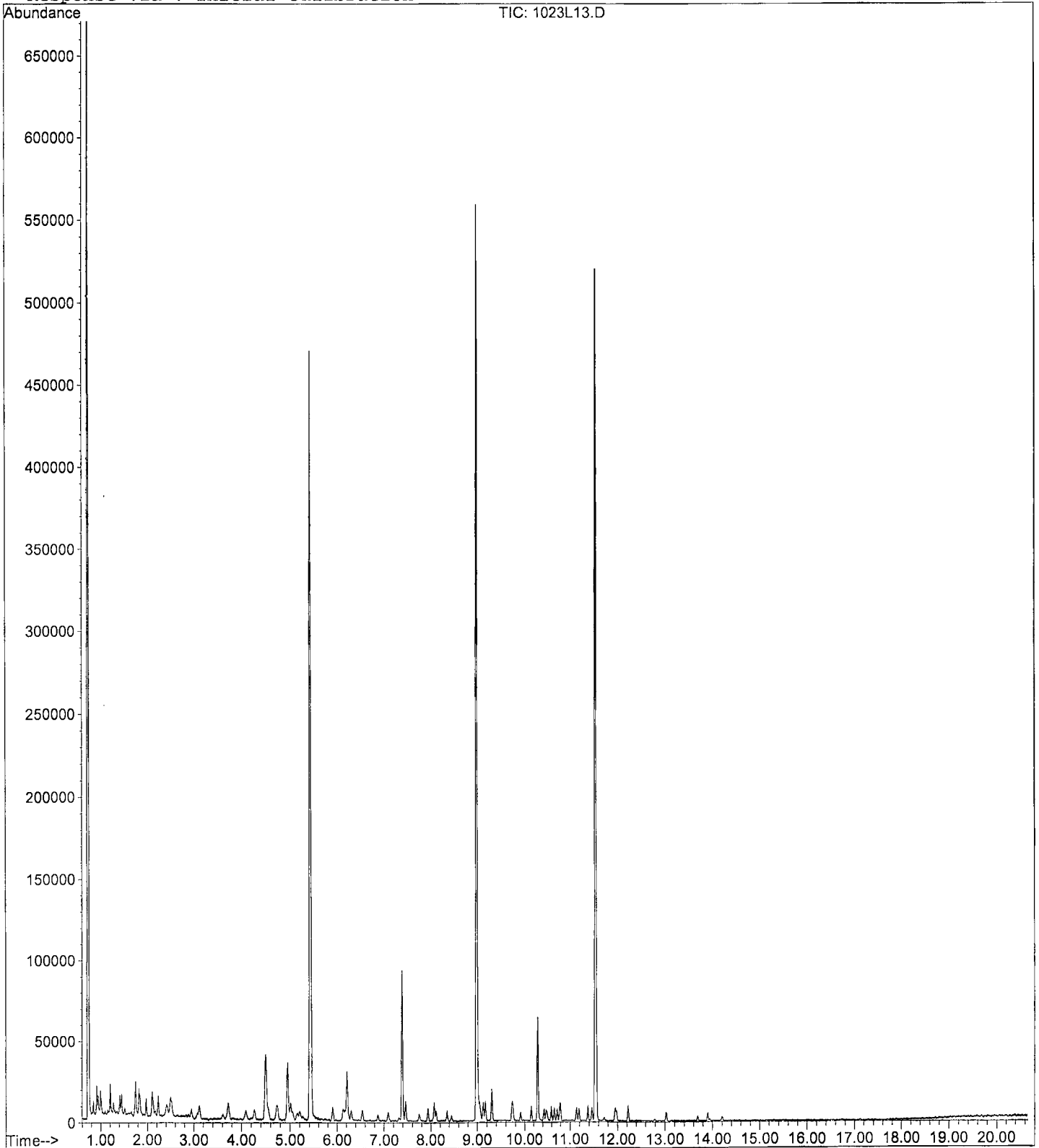
Data File : M:\LOKI\DATA\191023\1023L13.D
Acq On : 23 Oct 19 20:56
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 9
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L14.D
 Acq On : 23 Oct 19 21:24
 Sample : 5.0ug/L VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 10
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant. Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	232960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	215872	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	103312	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	73331	25.57	ppb	0.00
Spiked Amount	25.000		Recovery	=	102.268%	
3) 1,2-DCA-D4(S)	4.95	65	77274	25.07	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.300%	
5) Toluene-D8(S)	7.38	98	196494	25.02	ppb	0.00
Spiked Amount	25.000		Recovery	=	100.064%	
6) 4-Bromofluorobenzene(S)	10.29	95	66904	24.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	96.188%	

Target Compounds Qvalue

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

Quantitation Report

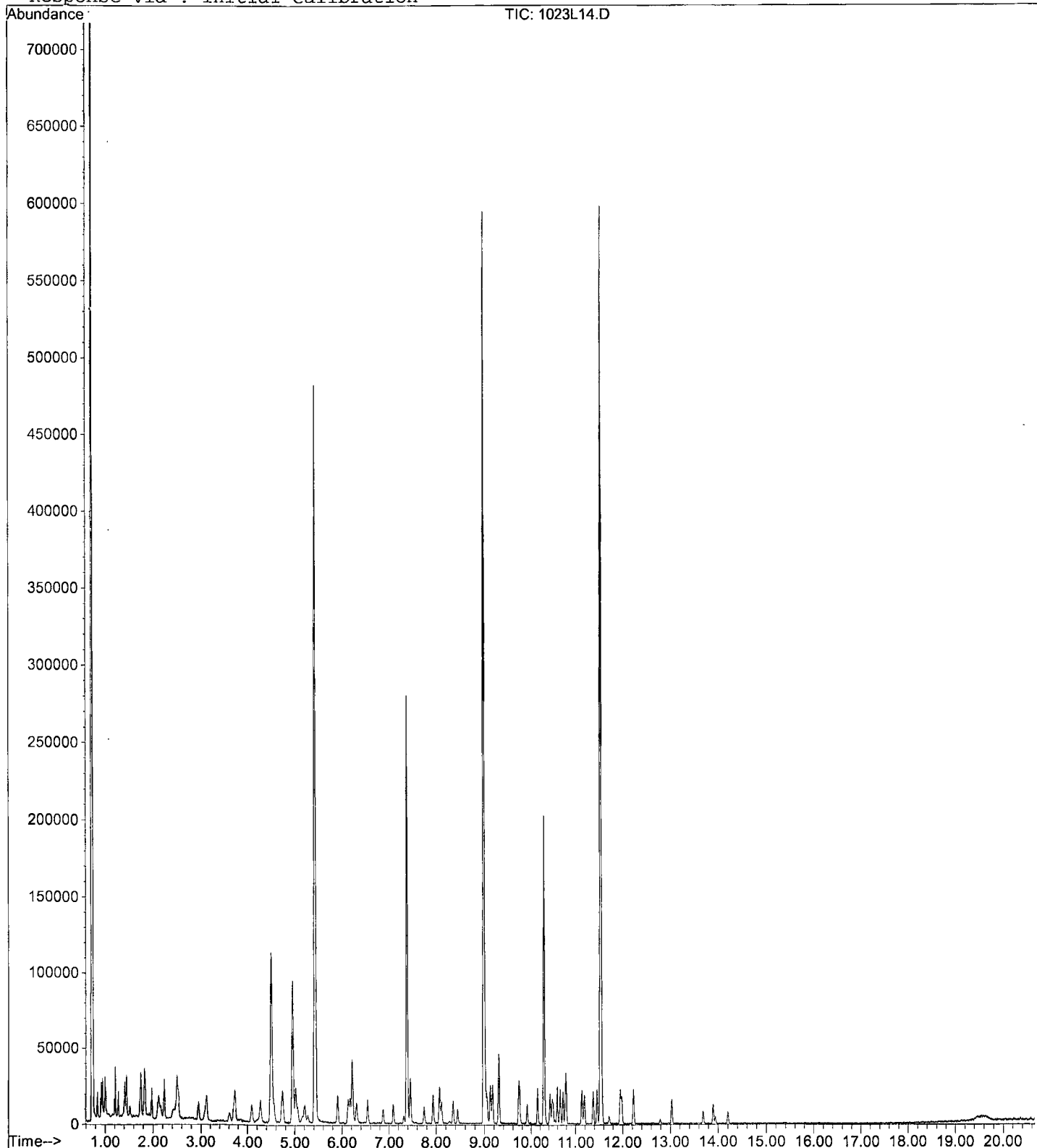
Data File : M:\LOKI\DATA\191023\1023L14.D
Acq On : 23 Oct 19 21:24
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 10
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L15.D Vial: 11
 Acq On : 23 Oct 19 21:53 Operator:
 Sample : 10ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	5.43	96	243072	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	224832	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	113088	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
2) Dibromofluoromethane(S)	4.50	111	73614	24.60	ppb	0.00
Spiked Amount 25.000			Recovery =	98.392%		
3) 1,2-DCA-D4 (S)	4.95	65	77647	24.15	ppb	0.00
Spiked Amount 25.000			Recovery =	96.592%		
5) Toluene-D8 (S)	7.38	98	203676	24.90	ppb	0.00
Spiked Amount 25.000			Recovery =	99.588%		
6) 4-Bromofluorobenzene(S)	10.29	95	73416	25.34	ppb	0.00
Spiked Amount 25.000			Recovery =	101.344%		

Target Compounds Qvalue

Quantitation Report

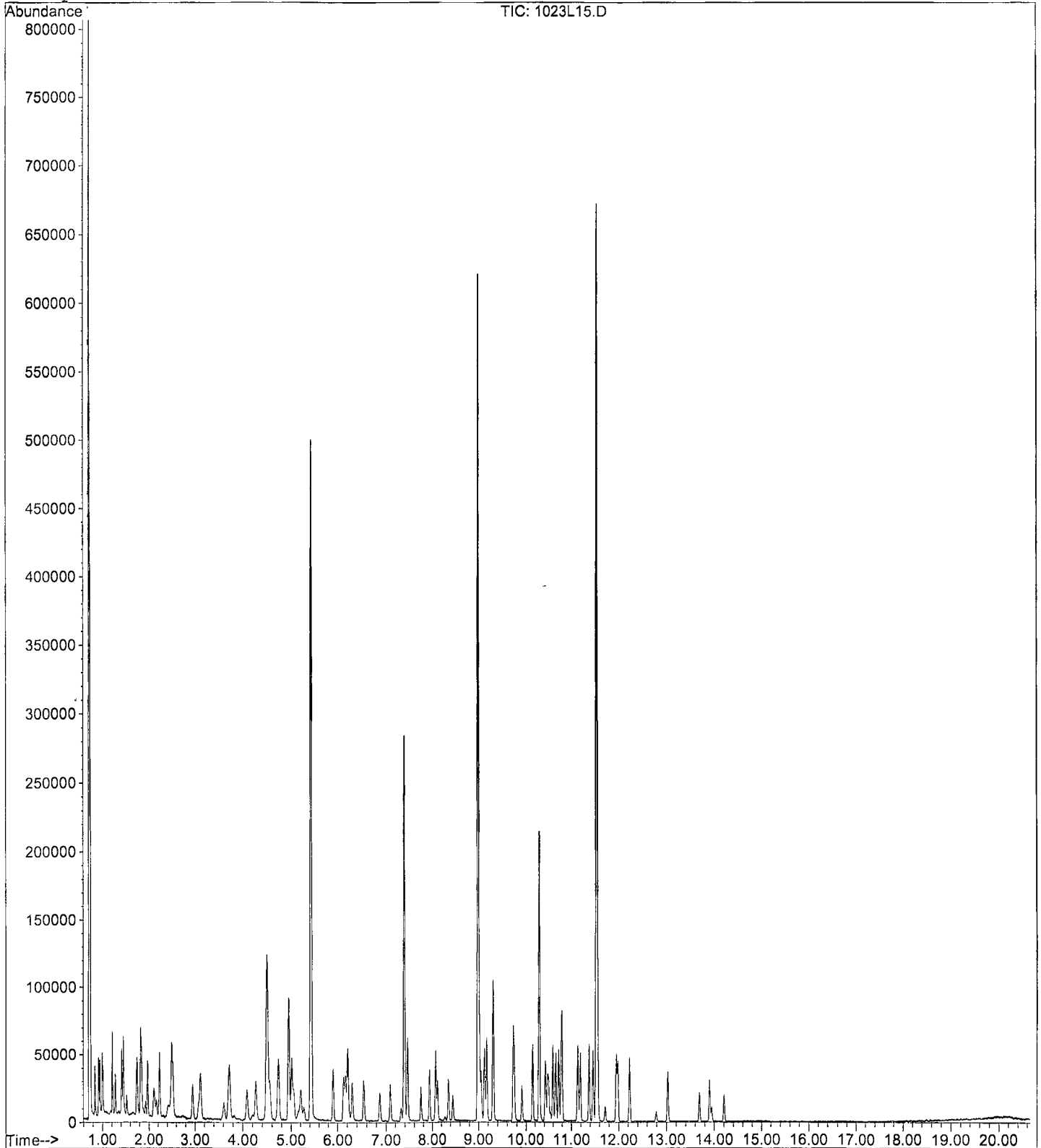
Data File : M:\LOKI\DATA\191023\1023L15.D
Acq On : 23 Oct 19 21:53
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 11
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L16.D Vial: 12
 Acq On : 23 Oct 19 22:21 Operator:
 Sample : 20ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	253504	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	234944	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	132352	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	152485	48.86	ppb	0.00
Spiked Amount	25.000		Recovery	=	195.420%	
3) 1,2-DCA-D4(S)	4.95	65	165297	49.29	ppb	0.00
Spiked Amount	25.000		Recovery	=	197.164%	
5) Toluene-D8(S)	7.38	98	454363	53.15	ppb	0.00
Spiked Amount	25.000		Recovery	=	212.600%	
6) 4-Bromofluorobenzene(S)	10.29	95	166667	55.04	ppb	0.00
Spiked Amount	25.000		Recovery	=	220.168%	

Target Compounds Qvalue

Quantitation Report

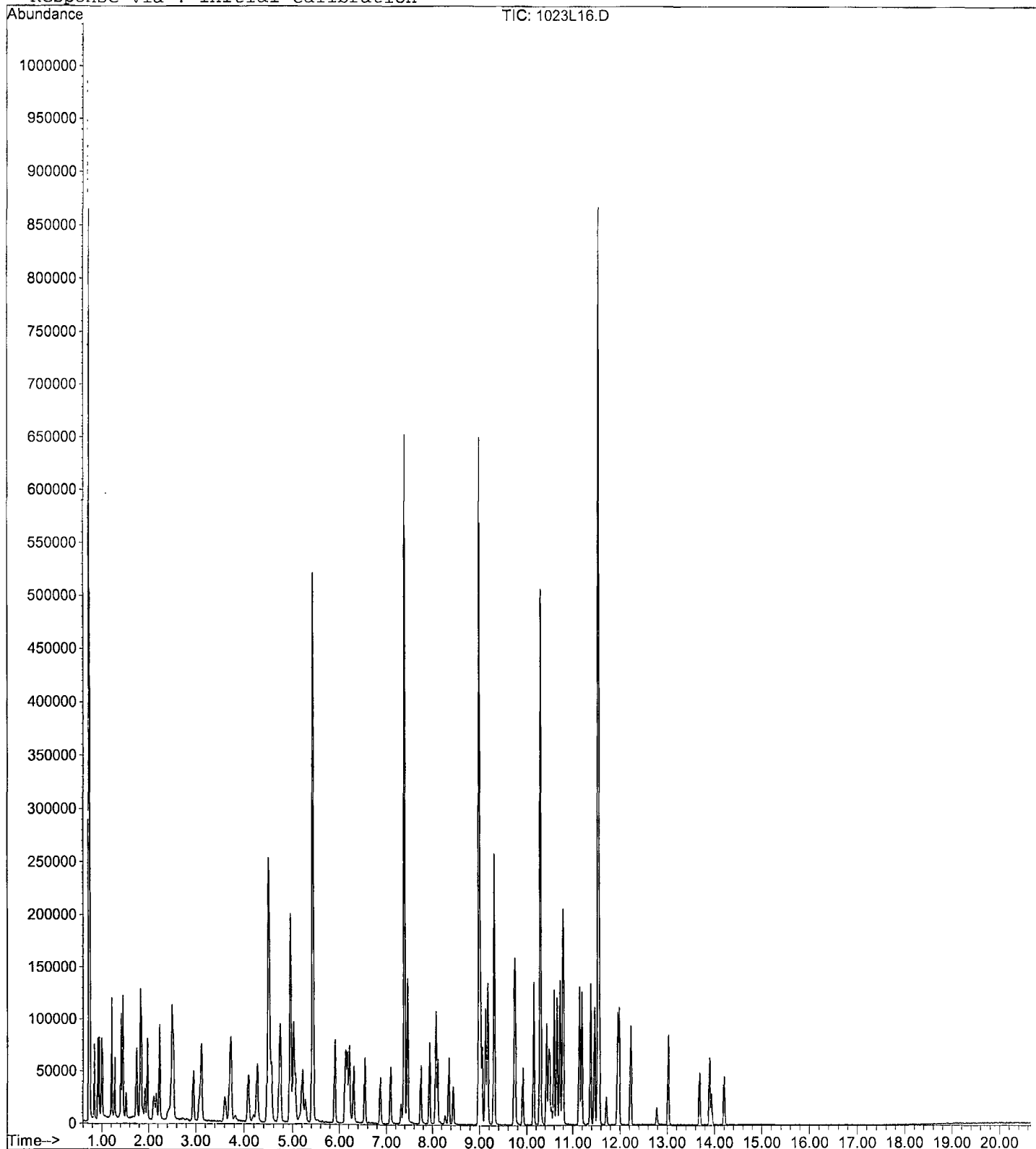
Data File : M:\LOKI\DATA\191023\1023L16.D
Acq On : 23 Oct 19 22:21
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 12
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L17.D Vial: 13
 Acq On : 23 Oct 19 22:50 Operator:
 Sample : 40ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	256960	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	232256	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.53	152	131904	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	4.50	111	154619	48.87	ppb	0.00
Spiked Amount						
						Recovery = 195.492%
3) 1,2-DCA-D4(S)	4.95	65	164006	48.25	ppb	0.00
Spiked Amount						
						Recovery = 192.992%
5) Toluene-D8(S)	7.38	98	466931	55.25	ppb	0.00
Spiked Amount						
						Recovery = 221.008%
6) 4-Bromofluorobenzene(S)	10.29	95	177941	59.45	ppb	0.00
Spiked Amount						
						Recovery = 237.784%

Target Compounds Qvalue

Quantitation Report

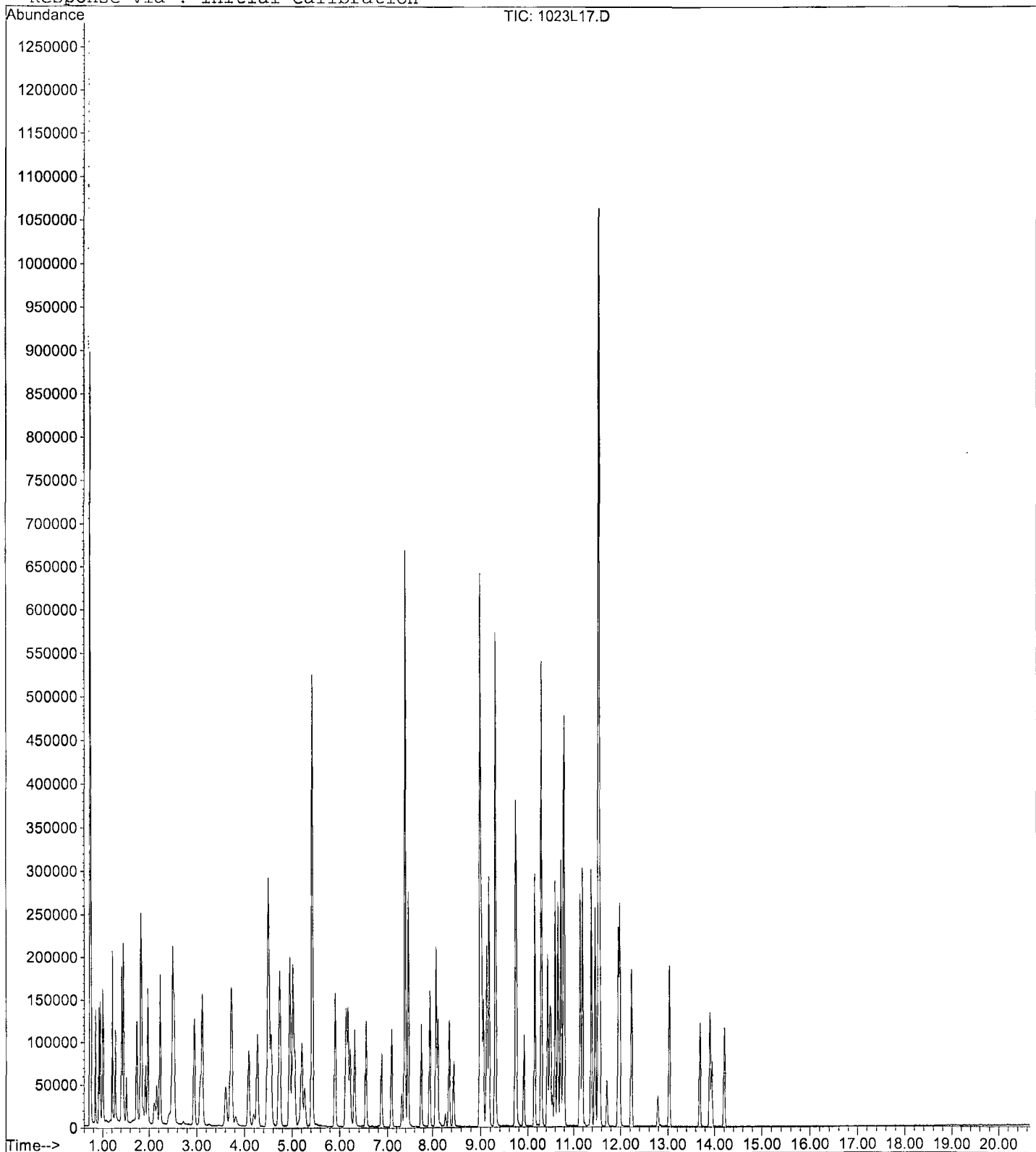
Data File : M:\LOKI\DATA\191023\1023L17.D
Acq On : 23 Oct 19 22:50
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 13
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L18.D Vial: 14
 Acq On : 23 Oct 19 23:18 Operator:
 Sample : 100ug/L VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 29 9:42 2019 Quant Results File: LSUR1023.RES

Quant. Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 10:20:57 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	96	254336	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	8.99	117	239360	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	11.54	152	141952	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	4.50	111	281593	89.93	ppb	0.00
Spiked Amount 25.000						
						Recovery = 359.704%
3) 1,2-DCA-D4(S)	4.95	65	301257	89.54	ppb	0.00
Spiked Amount 25.000						
						Recovery = 358.156%
5) Toluene-D8(S)	7.38	98	920813	105.73	ppb	0.00
Spiked Amount 25.000						
						Recovery = 422.904%
6) 4-Bromofluorobenzene(S)	10.29	95	349610	113.33	ppb	0.00
Spiked Amount 25.000						
						Recovery = 453.320%

Target Compounds Qvalue

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

Quantitation Report

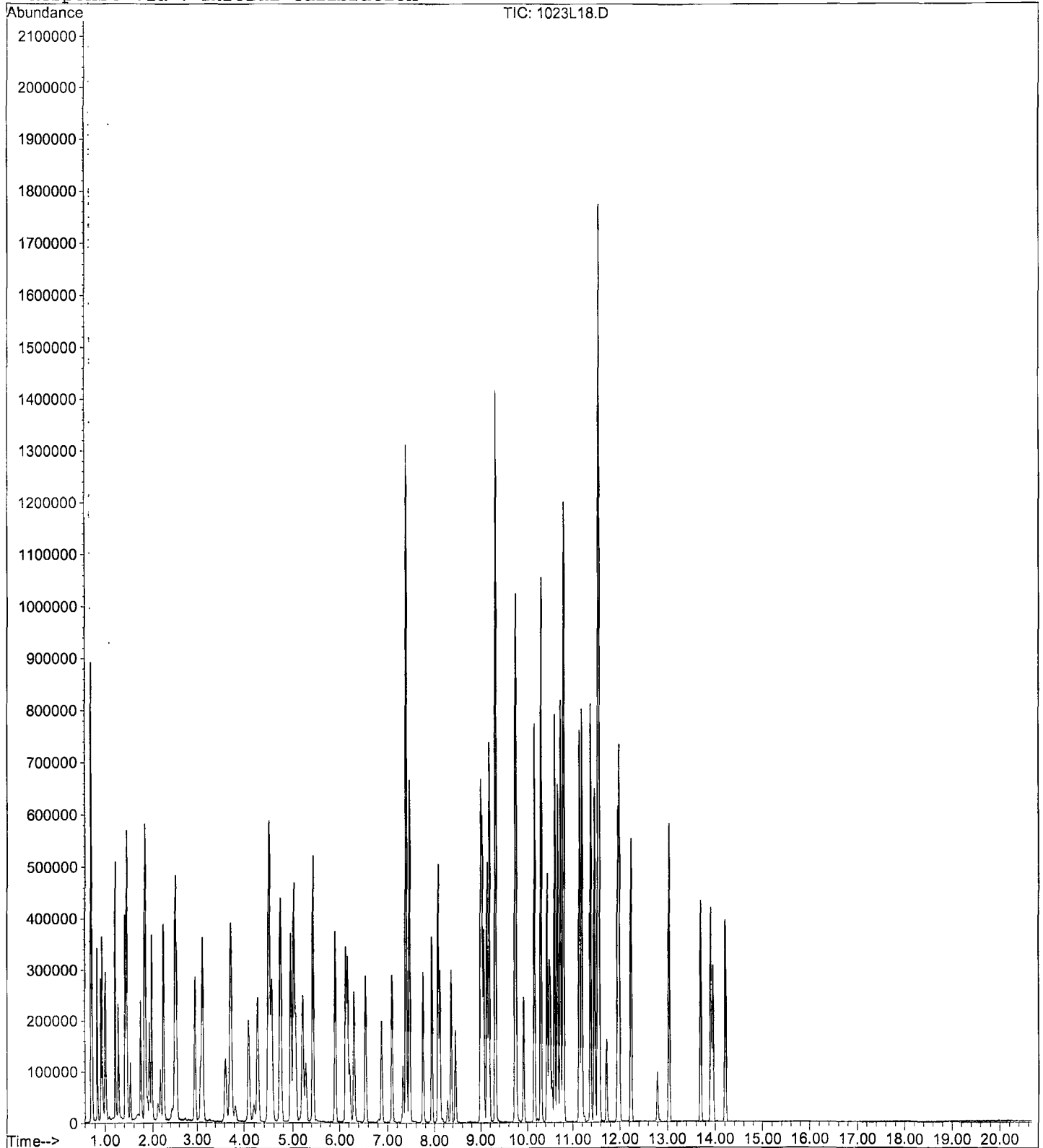
Data File : M:\LOKI\DATA\191023\1023L18.D
Acq On : 23 Oct 19 23:18
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 14
Operator:
Inst : Loki
Multiplr: 1.00

Quant. Time: Oct 29 9:42 2019

Quant Results File: LSUR1023.RES

Method : M:\LOKI\DATA\191023\LSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 10:20:57 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 10/27/2019

Matrix: _____

Instrument: Loki

Initials: _____

1026L50.D 1026L51.D 1026L52.D 1026L53.D 1026L54.D 1026L55.D 1026L56.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	10.0	4.049	2.170	0.8414	0.5566	0.4779	0.4246				2.6	132	TMHBL	0.998		
3	I Chlorobenzene-D5 (IS)																
4	I 1,4-Dichlorobenzene-D (IS)																
5																	
6																	
7																	
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9																	
10																	
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33																	
34																	
35																	

Data File : M:\LOKI\DATA\191023\1023L22.D
 Acq On : 24 Oct 19 1:12
 Sample : 2.0ug/L KLRH VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 18
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 14:15 2019

Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	463455	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	557998	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	443806	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	8.99	TIC	3573033m	486.97	ppb	0

Quantitation Report

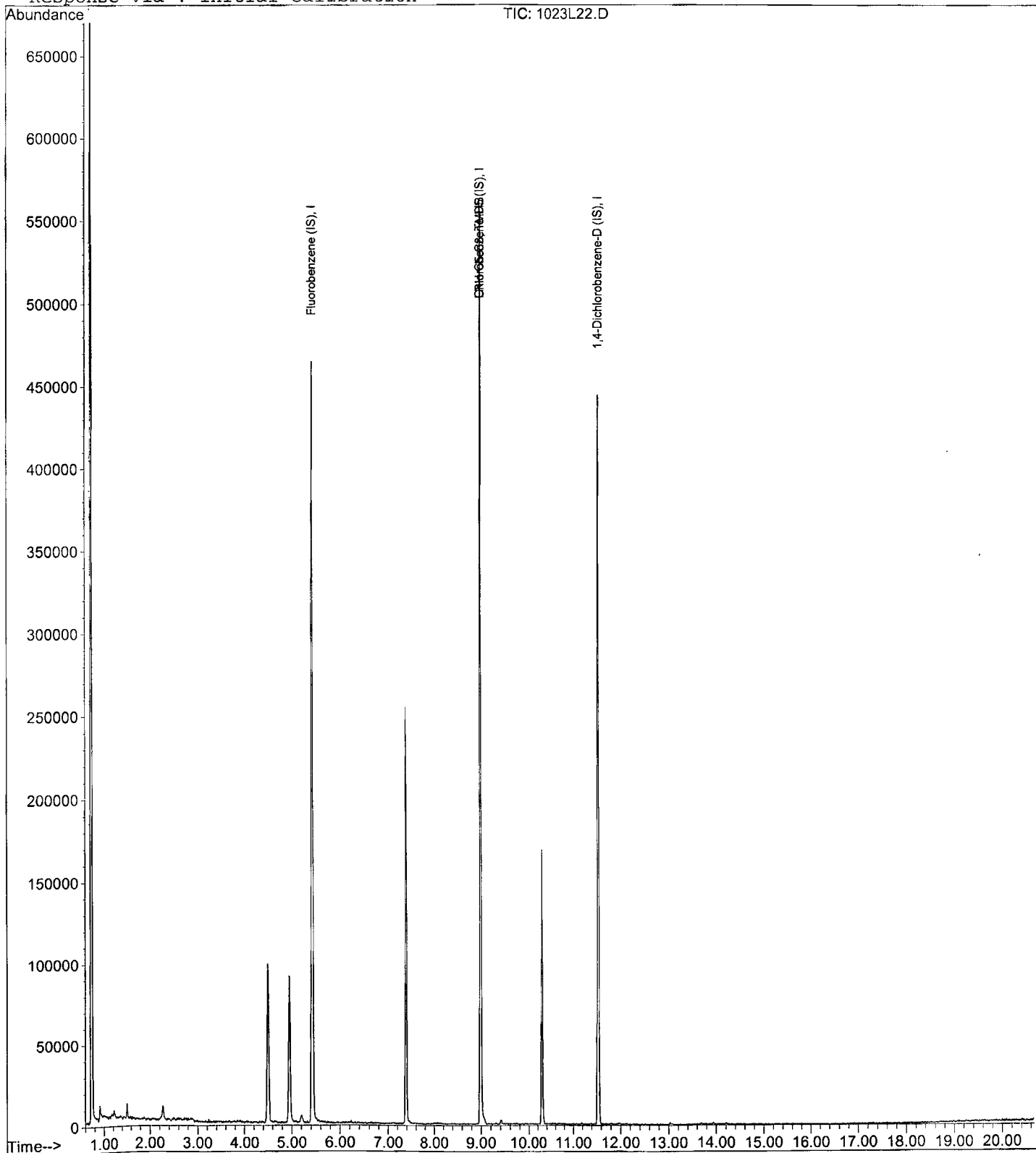
Data File : M:\LOKI\DATA\191023\1023L22.D
Acq On : 24 Oct 19 1:12
Sample : 2.0ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 18
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:15 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L23.D
 Acq On : 24 Oct 19 1:41
 Sample : 5.0ug/L KLRH VOC STD 10/23/19
 Misc : IS&S:10/7/19, 10/23/19

Vial: 19
 Operator:
 Inst : Loki
 Multiplr: 1.00

Quant Time: Oct 24 14:17 2019

Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	469779	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	586462	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	466588	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	8.99	TIC	3804111m	540.70	ppb	0

Quantitation Report

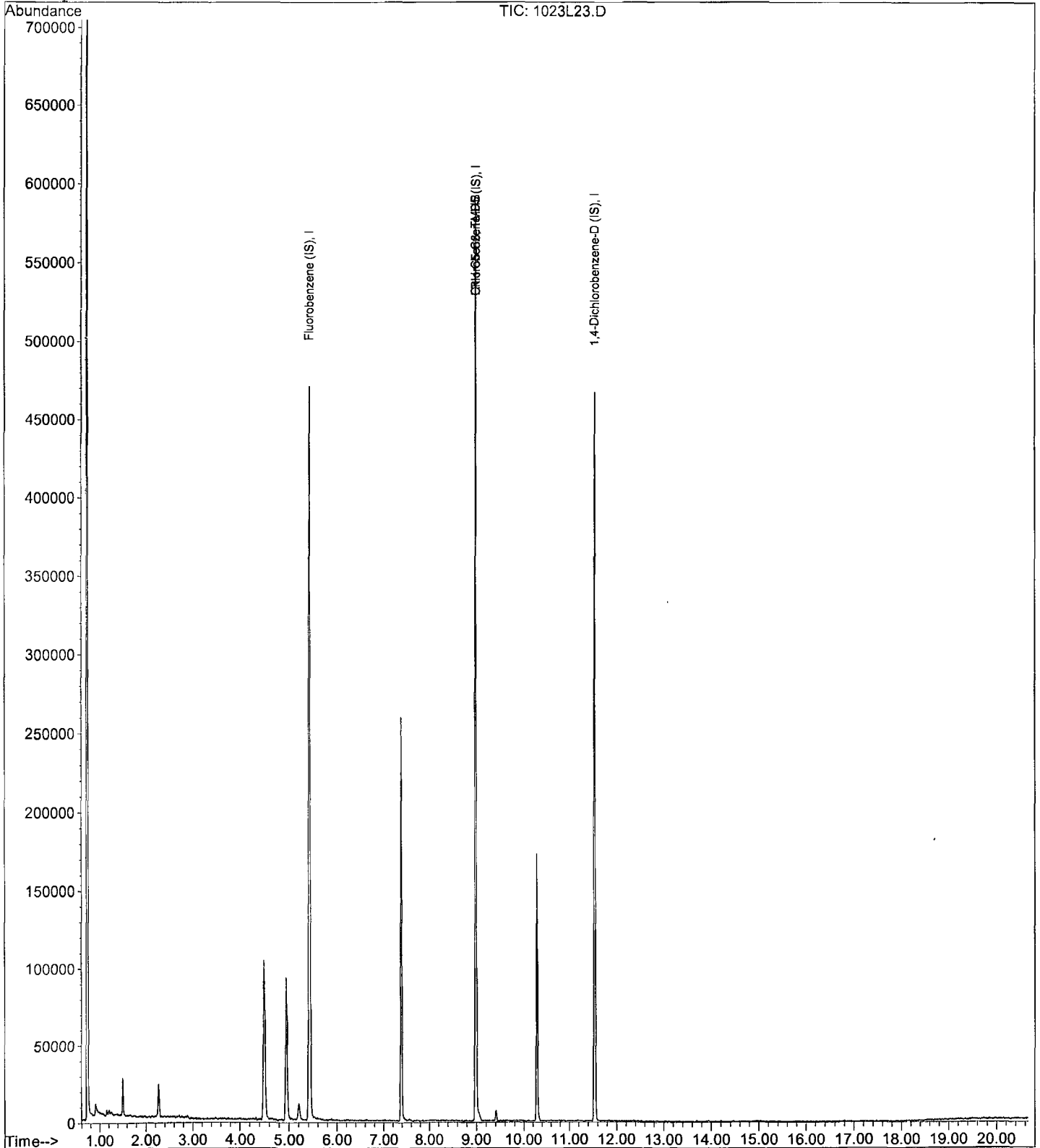
Data File : M:\LOKI\DATA\191023\1023L23.D
Acq On : 24 Oct 19 1:41
Sample : 5.0ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 19
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:17 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L24.D Vial: 20
 Acq On : 24 Oct 19 2:09 Operator:
 Sample : 25ug/L KLRH VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 24 14:19 2019 Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	457504	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	556841	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	441544	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	8.99	TIC	4044316m	643.48	ppb	0

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

Quantitation Report

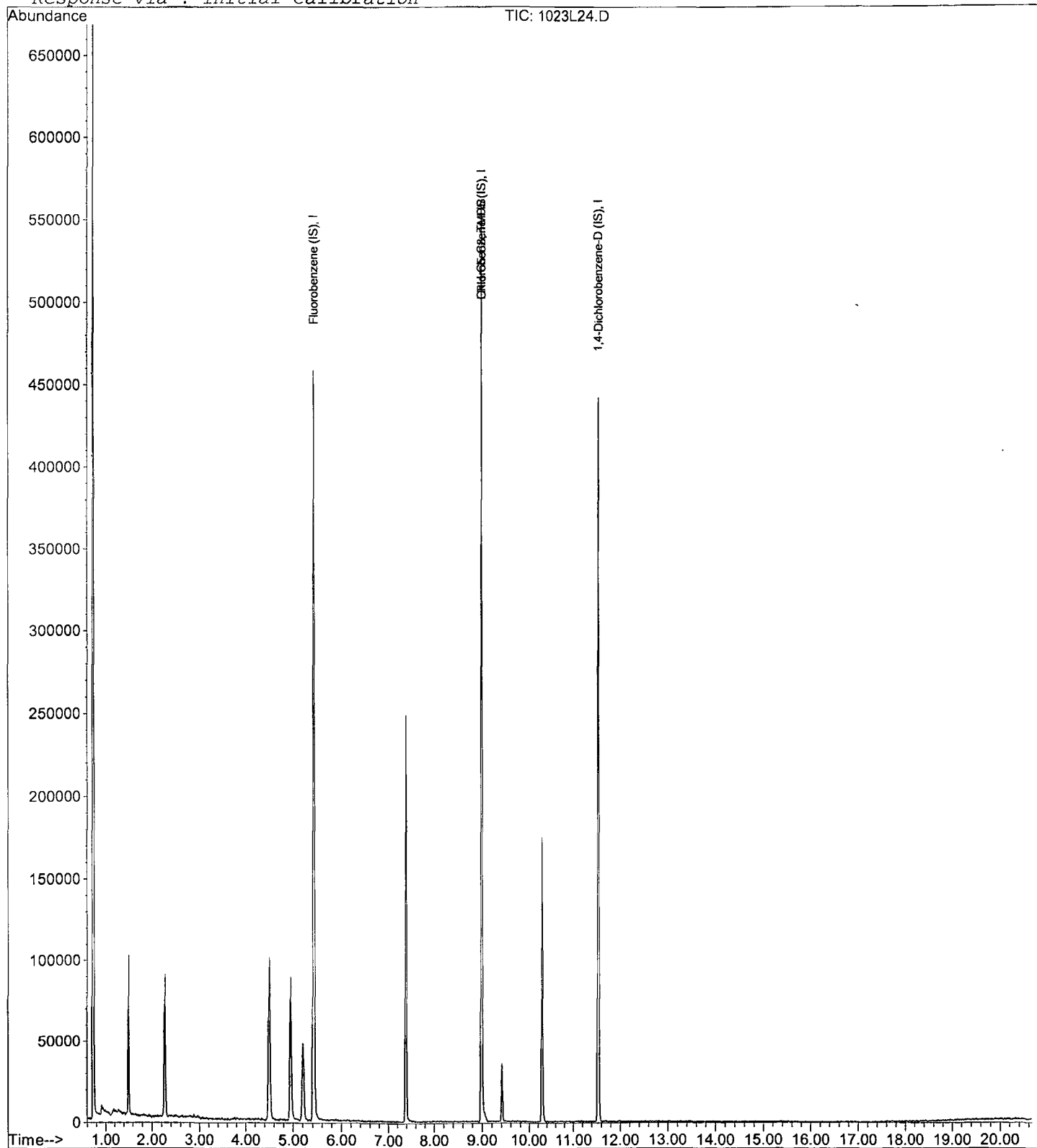
Data File : M:\LOKI\DATA\191023\1023L24.D
Acq On : 24 Oct 19 2:09
Sample : 25ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 20
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:19 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L25.D Vial: 21
 Acq On : 24 Oct 19 2:38 Operator:
 Sample : 50ug/L KLRH VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 24 14:20 2019 Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	481819	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	556519	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	453768	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	8.99	TIC	4675508m	763.10	ppb	0

Quantitation Report

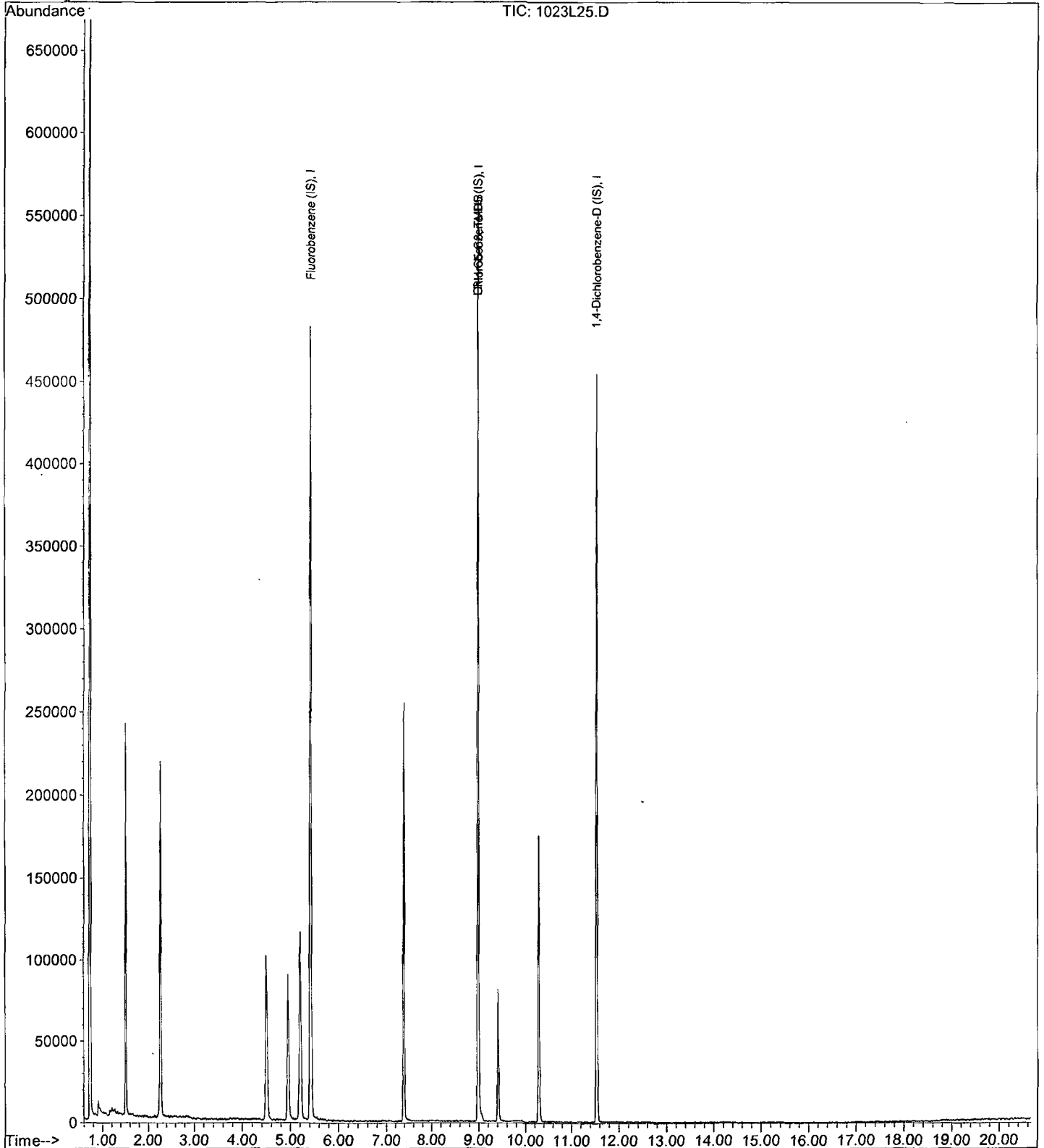
Data File : M:\LOKI\DATA\191023\1023L25.D
Acq On : 24 Oct 19 2:38
Sample : 50ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:20 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L26.D Vial: 22
 Acq On : 24 Oct 19 3:06 Operator:
 Sample : 100ug/L KLRH VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 24 14:21 2019 Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	503644	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	562001	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	456296	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	8.99	TIC	5814433m	1017.99	ppb	0

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

Quantitation Report

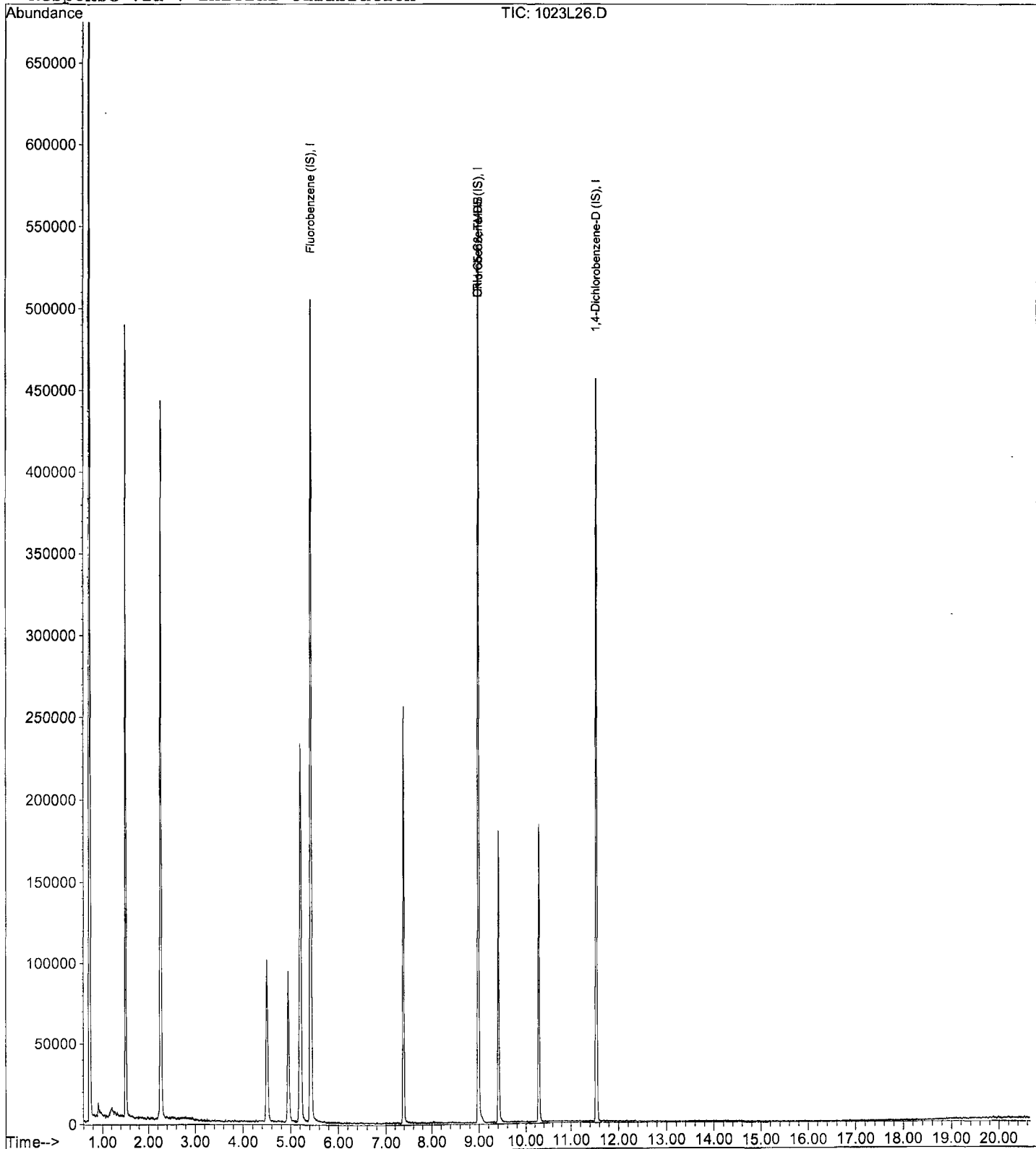
Data File : M:\LOKI\DATA\191023\1023L26.D
Acq On : 24 Oct 19 3:06
Sample : 100ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 22
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:21 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



Data File : M:\LOKI\DATA\191023\1023L27.D Vial: 23
 Acq On : 24 Oct 19 3:35 Operator:
 Sample : 200ug/L KLRH VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 24 14:23 2019 Quant Results File: KGAS1023.RES

Quant Method : M:\LOKI\DATA\191023\KGAS1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 15:06:45 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	506793	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	562009	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	462084	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) LRH C5-C8	1.51	TIC	7895509m	1576.63	ppb	0

Quantitation Report

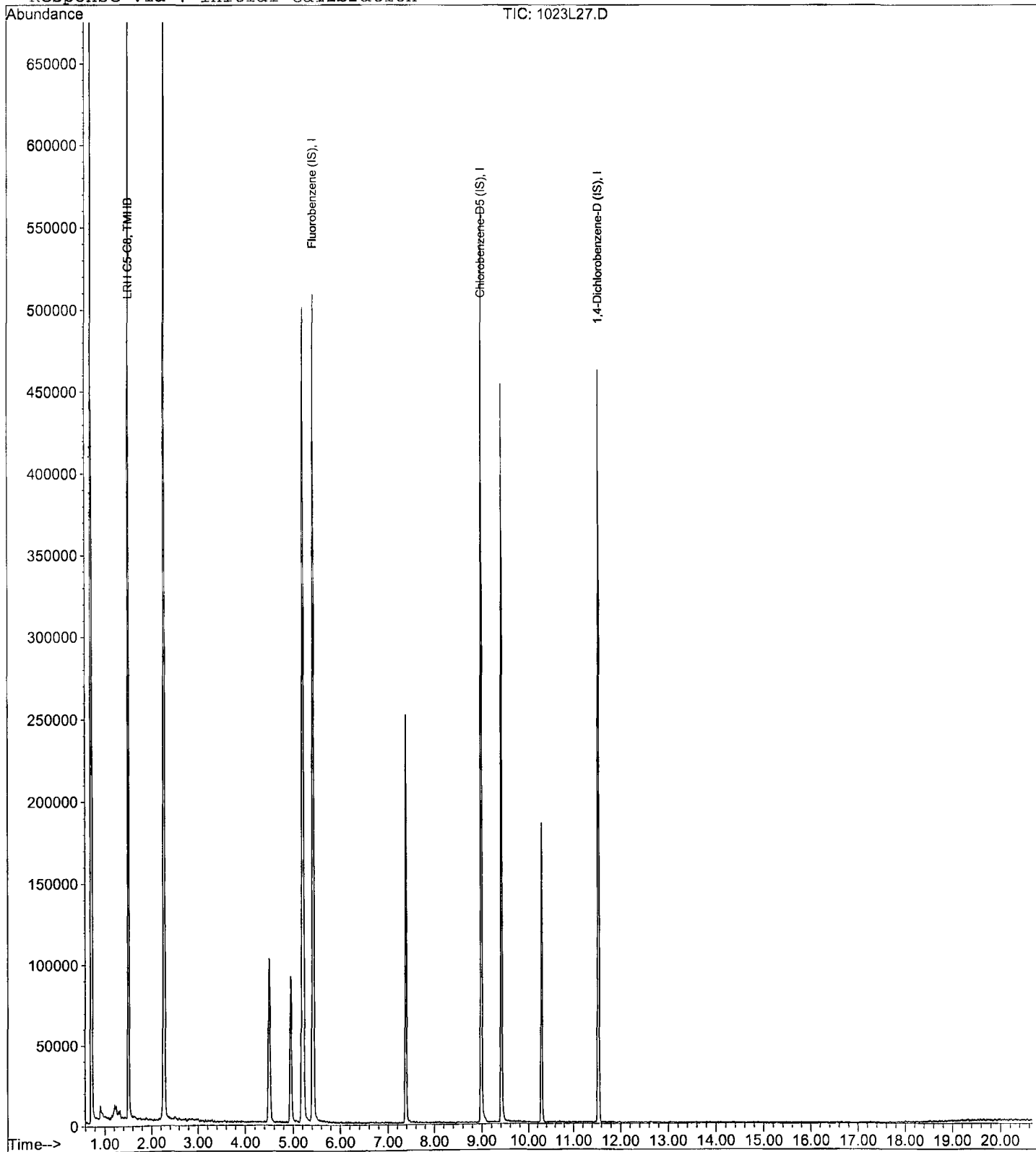
Data File : M:\LOKI\DATA\191023\1023L27.D
Acq On : 24 Oct 19 3:35
Sample : 200ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 23
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 24 14:23 2019

Quant Results File: KGAS1023.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/24/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/2019

Data File: 1023L29.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	2.646	0.8602	67	TMHBL 5.2
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			67.0	

Data File : M:\LOKI\DATA\191023\1023L29.D Vial: 25
 Acq On : 24 Oct 19 4:31 Operator:
 Sample : (SS)50ug/L KLRH VOC STD 10/23/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Nov 20 15:09 2019 Quant Results File: LGAS1026.RES

Quant. Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.43	TIC	463642	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	541162	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.54	TIC	428140	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	4786173m	284.30	ppb	100

Quantitation Report

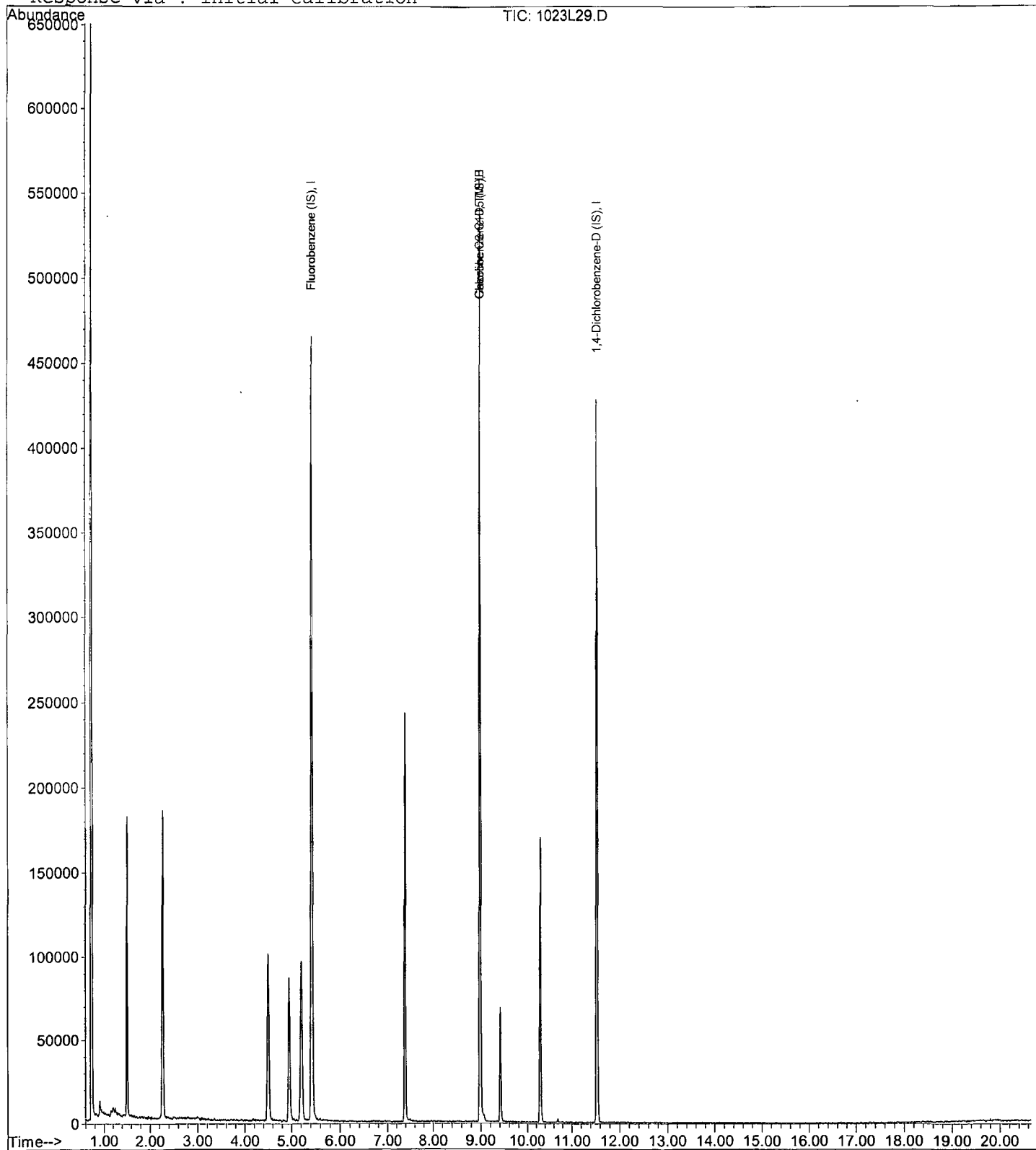
Data File : M:\LOKI\DATA\191023\1023L29.D
Acq On : 24 Oct 19 4:31
Sample : (SS)50ug/L KLRH VOC STD 10/23/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 25
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Nov 20 15:09 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/2019

Data File: 1030L21.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.646	0.8711	67	TMHBL	0.59
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
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36							
37							
38							
39							
40		Average			67.0		

Data File : M:\LOKI\DATA\191023\1030L21.D Vial: 21
 Acq On : 30 Oct 19 23:25 Operator:
 Sample : 191030 CCV 300ug/L Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 8:37 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	573553	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	770969	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	741300	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	5995738m	298.24	ppb	100

Quantitation Report

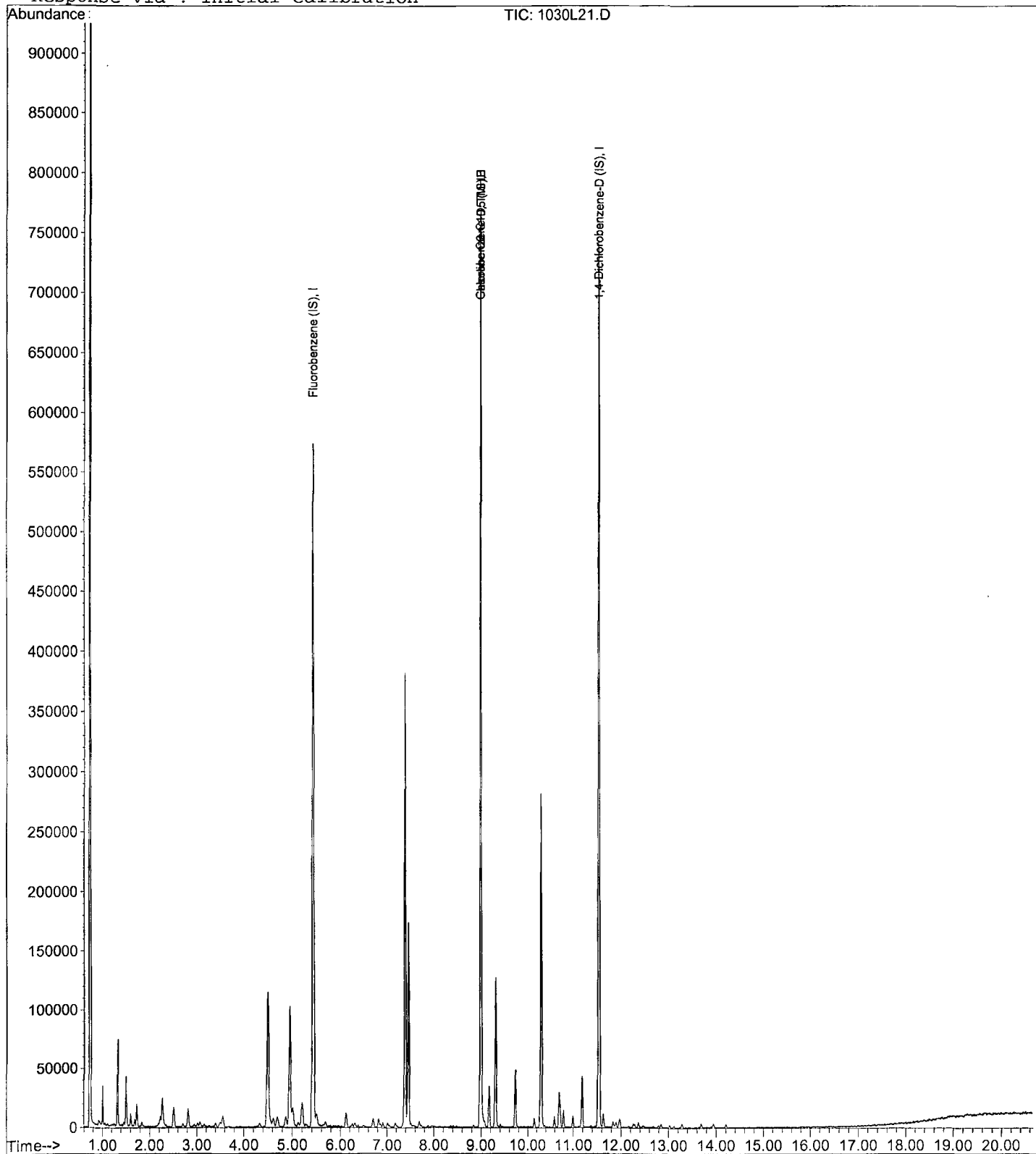
Data File : M:\LOKI\DATA\191023\1030L21.D
Acq On : 30 Oct 19 23:25
Sample : 191030 CCV 300ug/L
Misc : IS&S:10/7/19, 10/23/19

Vial: 21
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 8:37 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/2019

Matrix: _____

Instrument: Loki

Initial Cal. Date: 10/27/2019

Data File: 1030L43.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	2.646	0.8556	68	TMHBL	7.2
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
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31							
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33							
34							
35							
36							
37							
38							
39							
40		Average			68.0		

Data File : M:\LOKI\DATA\191023\1030L43.D Vial: 43
 Acq On : 31 Oct 19 9:49 Operator:
 Sample : Ending CCV 300ug/L 10/29/19 Inst : Loki
 Misc : IS&S:10/7/19, 10/23/19 Multiplr: 1.00

Quant Time: Oct 31 9:16 2019 Quant Results File: LGAS1026.RES

Quant Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:53:48 2019
 Response via : Initial Calibration
 DataAcq Meth : L8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	5.42	TIC	584993	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	8.99	TIC	796628	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	11.53	TIC	803304	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.99	TIC	6005915m	278.29	ppb	100

Quantitation Report

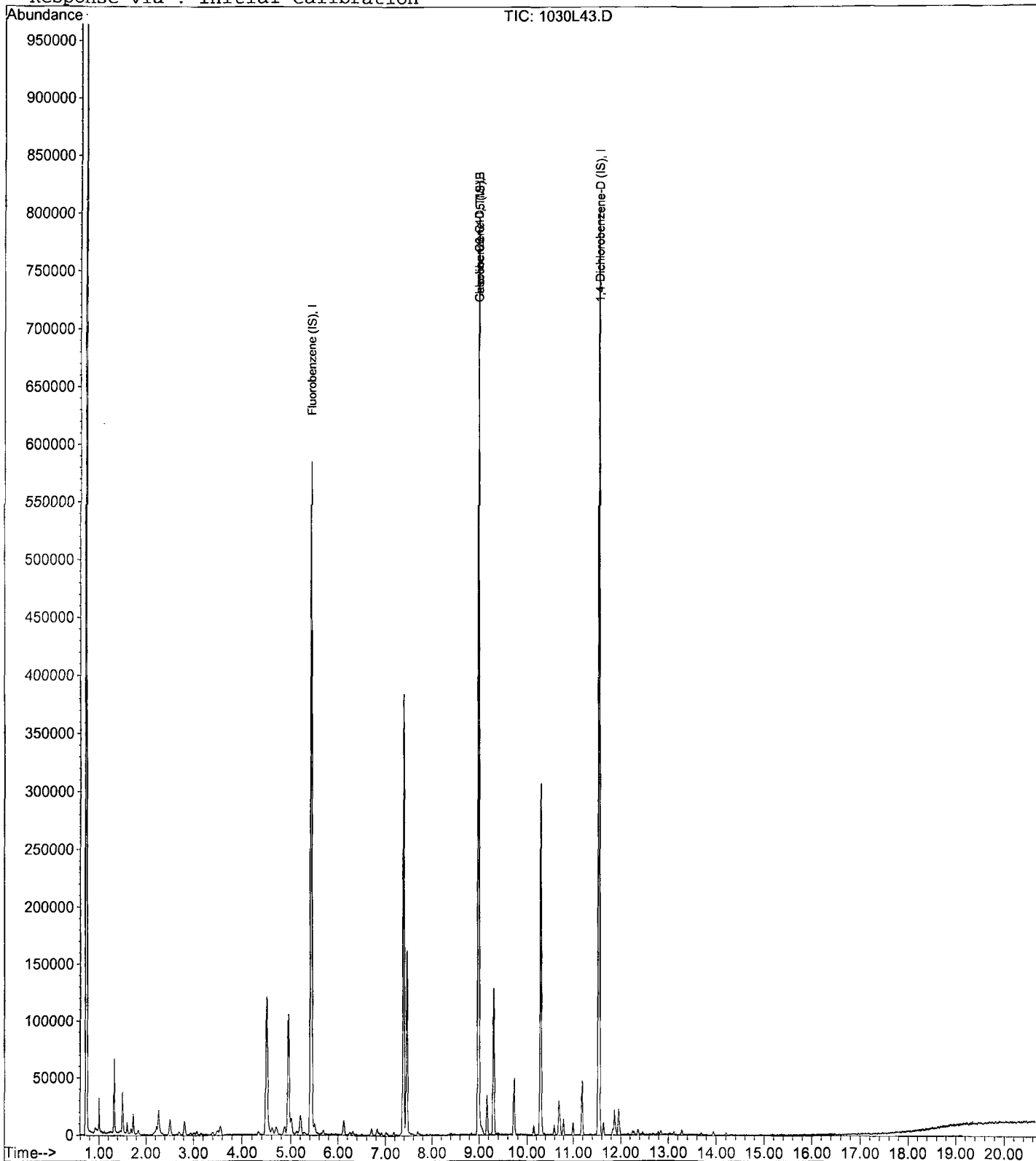
Data File : M:\LOKI\DATA\191023\1030L43.D
Acq On : 31 Oct 19 9:49
Sample : Ending CCV 300ug/L 10/29/19
Misc : IS&S:10/7/19, 10/23/19

Vial: 43
Operator:
Inst : Loki
Multiplr: 1.00

Quant Time: Oct 31 9:16 2019

Quant Results File: LGAS1026.RES

Method : M:\LOKI\DATA\191023\LGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:53:48 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Thor

Initials: _____

1023T06.D 1023T07.D 1023T08.D 1023T09.D 1023T10.D 1023T11.D 1023T12.D 1023T13.D 1023T14.D

	Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I Fluorobenzene (IS)																
2	S Dibromofluoromethane(S)	0.5385	0.5240	0.4368	0.4526	0.4712	0.4842	0.4850	0.4883	0.4565		0.48	6.8	S			
3	S 1,2-DCA-D4(S)	0.5868	0.5920	0.4819	0.5140	0.5350	0.5510	0.5468	0.5434	0.5053		0.54	6.7	S			
4	I Chlorobenzene-D5 (IS)																
5	S Toluene-D8(S)	2.143	2.042	1.649	1.690	1.820	1.965	1.778	1.900	1.815		1.9	8.7	S			
6	S 4-Bromofluorobenzene(S)	0.8756	0.7804	0.6244	0.6442	0.7197	0.7700	0.7173	0.7521	0.7682		0.74	10	S			
7	I 1,4-Dichlorobenzene-D (IS)																
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
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29																	
30																	
31																	
32																	
33																	
34																	
35																	

Data File : M:\THOR\DATA\T191023\1023T06.D Vial: 6
 Acq On : 23 Oct 19 19:32 Operator:
 Sample : 0.3ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	160768	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	91040	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	5.79	111	19209	5.59	ppb	0.00
Spiked Amount 25.000			Recovery =	22.348%		
3) 1,2-DCA-D4(S)	6.18	65	20935	5.44	ppb	0.00
Spiked Amount 25.000			Recovery =	21.752%		
5) Toluene-D8(S)	8.30	98	68918	5.74	ppb	0.00
Spiked Amount 25.000			Recovery =	22.960%		
6) 4-Bromofluorobenzene(S)	10.92	174	28153	5.92	ppb	0.00
Spiked Amount 25.000			Recovery =	23.692%		

Target Compounds Qvalue

Quantitation Report

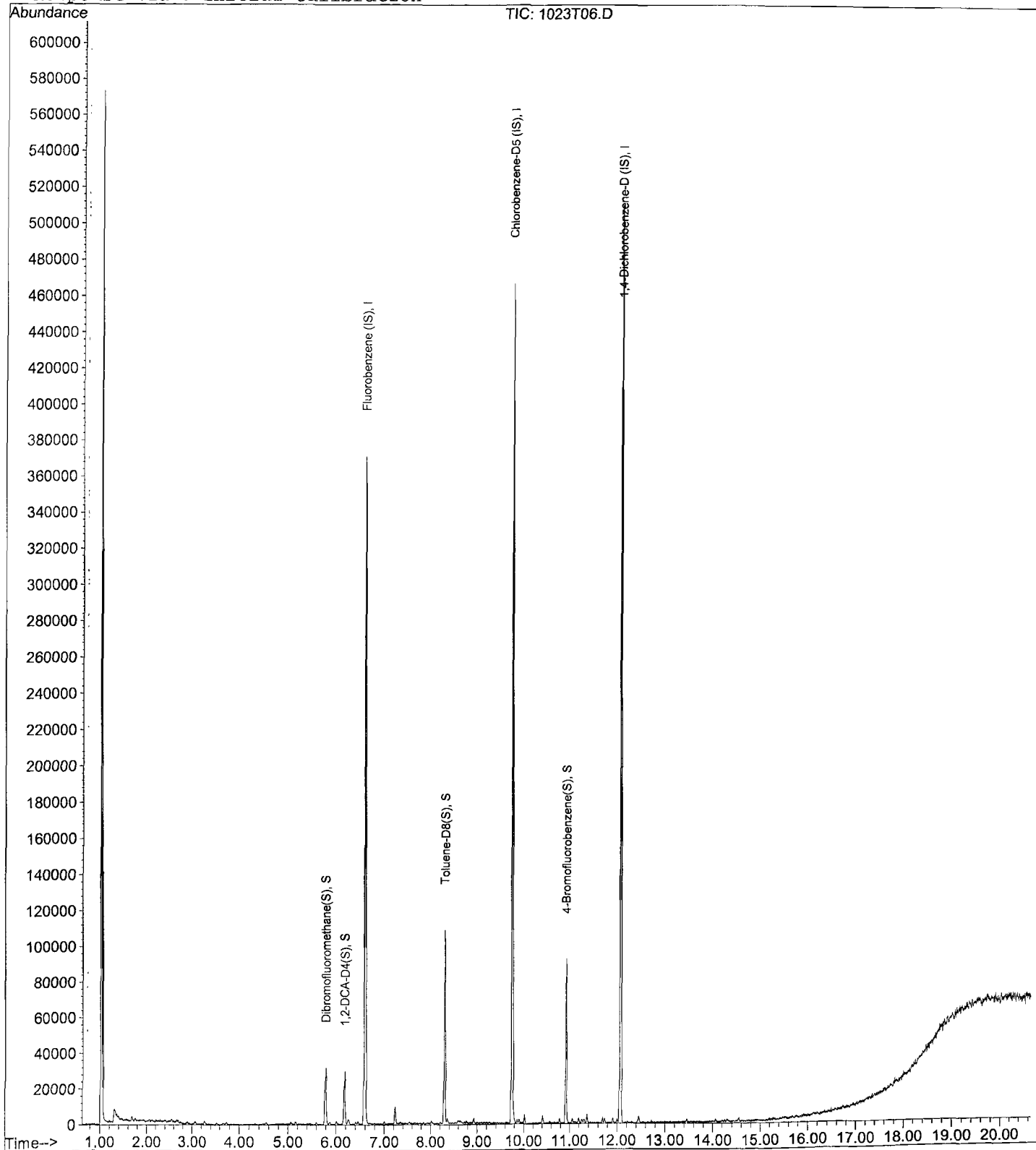
Data File : M:\THOR\DATA\T191023\1023T06.D
Acq On : 23 Oct 19 19:32
Sample : 0.3ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T07.D Vial: 7
 Acq On : 23 Oct 19 20:01 Operator:
 Sample : 0.5ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177792	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	164416	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	92872	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	18632	5.44	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.748%	
3) 1,2-DCA-D4(S)	6.18	65	21049	5.49	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.940%	
5) Toluene-D8(S)	8.30	98	67127	5.47	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.868%	
6) 4-Bromofluorobenzene(S)	10.92	174	25663	5.28	ppb	0.00
Spiked Amount	25.000		Recovery	=	21.120%	

Target Compounds Qvalue

Quantitation Report

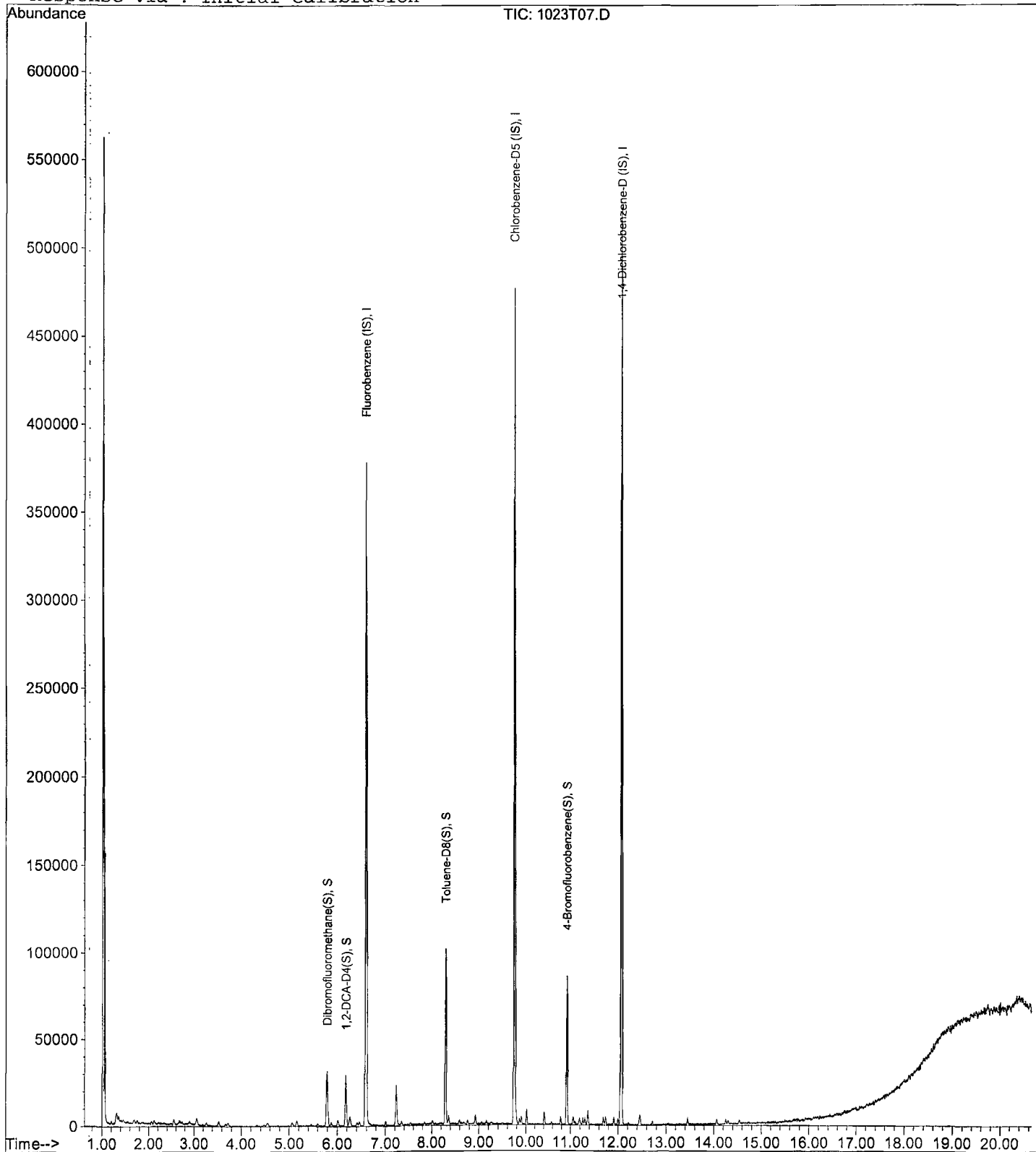
Data File : M:\THOR\DATA\T191023\1023T07.D
Acq On : 23 Oct 19 20:01
Sample : 0.5ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T08.D
 Acq On : 23 Oct 19 20:29
 Sample : 1.0ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 8
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	186048	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	170048	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	96952	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	5.79	111	32509	9.07	ppb	0.00
Spiked Amount 25.000			Recovery =	36.260%		
3) 1,2-DCA-D4(S)	6.18	65	35862	8.93	ppb	0.00
Spiked Amount 25.000			Recovery =	35.724%		
5) Toluene-D8(S)	8.30	98	112166	8.83	ppb	0.00
Spiked Amount 25.000			Recovery =	35.332%		
6) 4-Bromofluorobenzene(S)	10.92	174	42473	8.45	ppb	0.00
Spiked Amount 25.000			Recovery =	33.796%		

Target Compounds

Qvalue

Quantitation Report

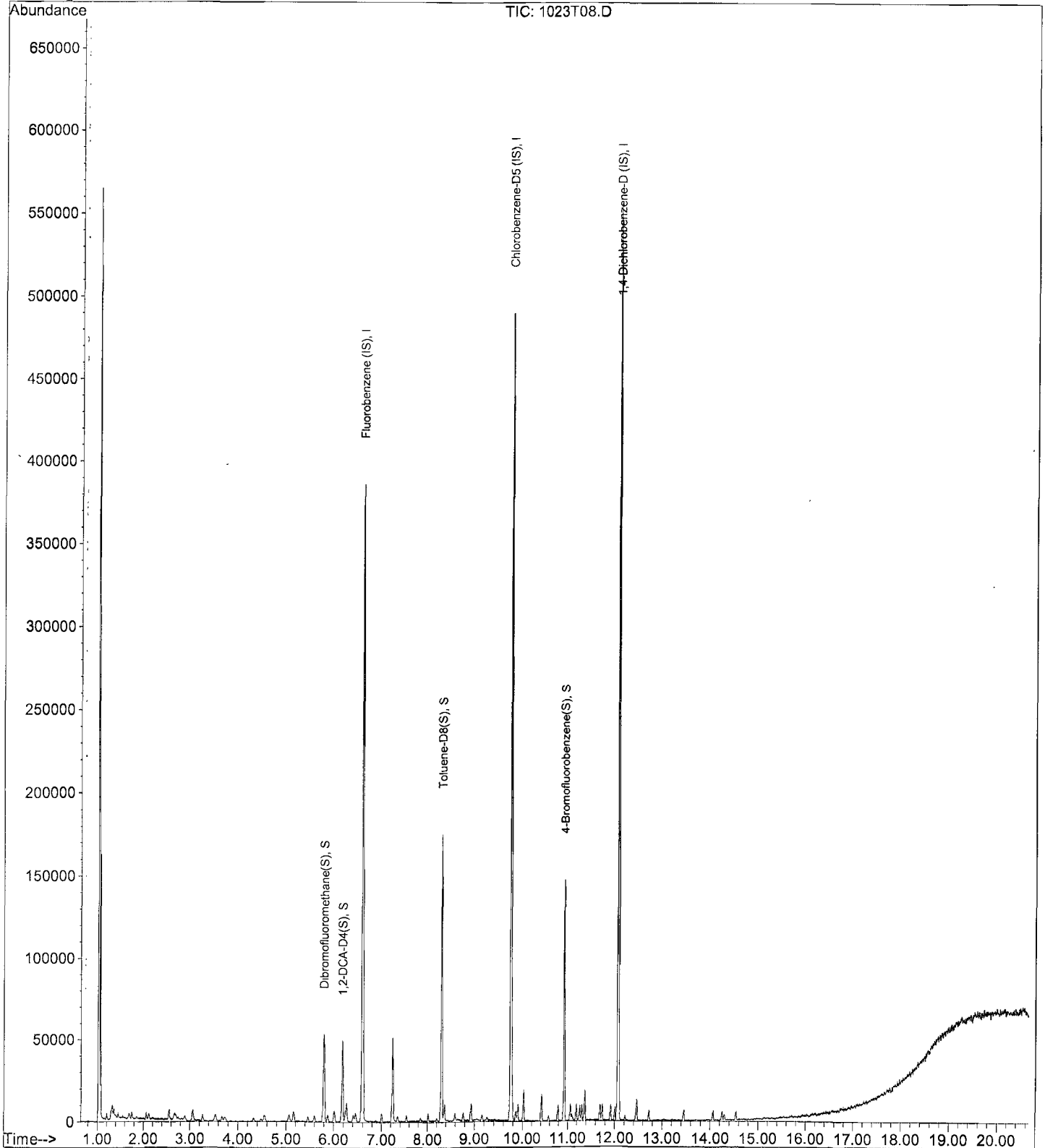
Data File : M:\THOR\DATA\T191023\1023T08.D
Acq On : 23 Oct 19 20:29
Sample : 1.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 8
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T09.D Vial: 9
 Acq On : 23 Oct 19 20:58 Operator:
 Sample : 2.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	182336	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	173696	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	94992	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	33009	9.39	ppb	0.00
Spiked Amount	25.000		Recovery	=	37.568%	
3) 1,2-DCA-D4(S)	6.18	65	37488	9.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	38.104%	
5) Toluene-D8(S)	8.30	98	117350	9.05	ppb	0.00
Spiked Amount	25.000		Recovery	=	36.188%	
6) 4-Bromofluorobenzene(S)	10.92	174	44756	8.72	ppb	0.00
Spiked Amount	25.000		Recovery	=	34.864%	

Target Compounds Qvalue

Quantitation Report

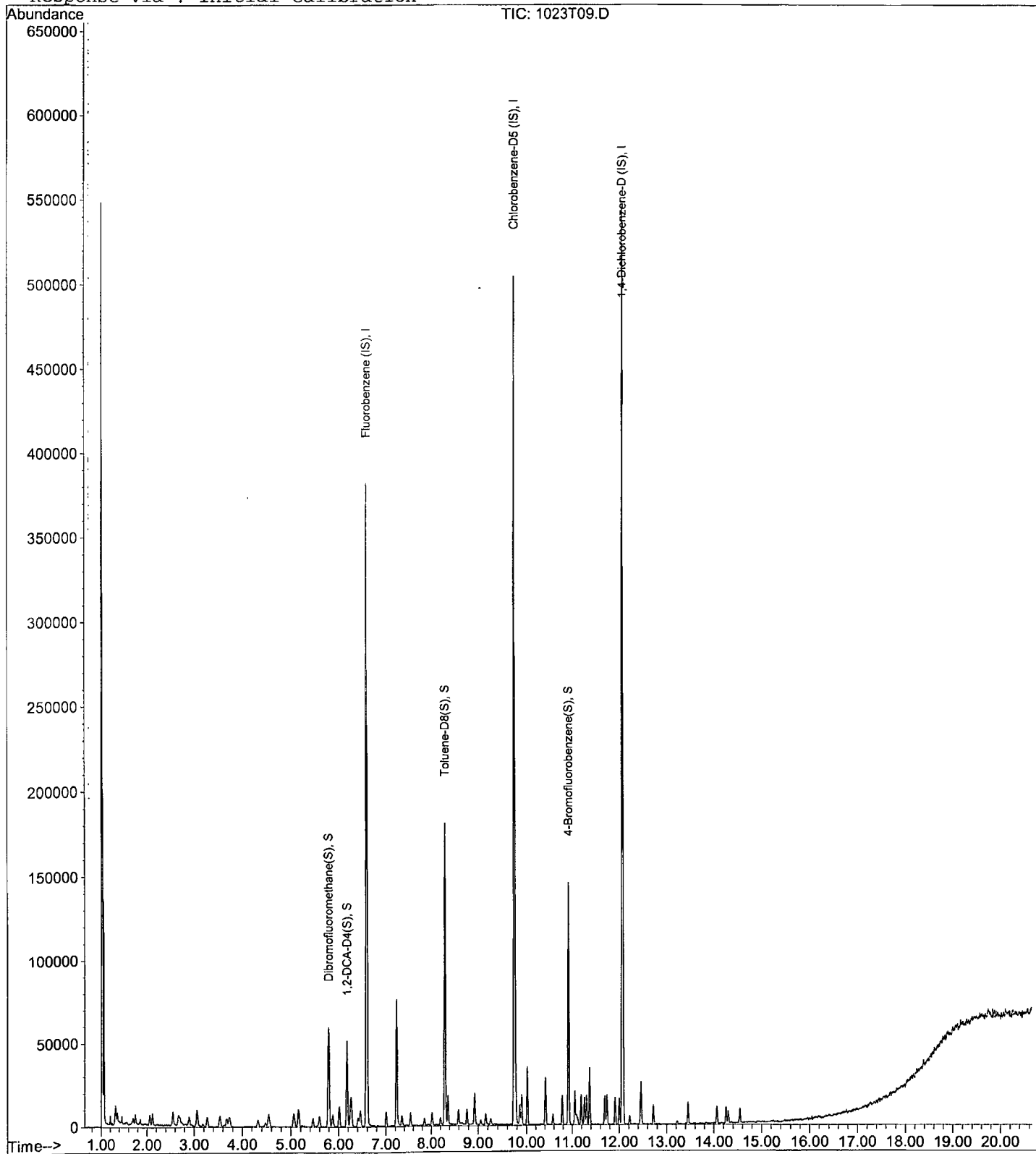
Data File : M:\THOR\DATA\T191023\1023T09.D
Acq On : 23 Oct 19 20:58
Sample : 2.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 9
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T10.D Vial: 10
 Acq On : 23 Oct 19 21:26 Operator:
 Sample : 5.0ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	183104	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	171200	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	96128	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	86276	24.44	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.780%
3) 1,2-DCA-D4(S)	6.18	65	97911	24.78	ppb	0.00
Spiked Amount				25.000		
					Recovery =	99.104%
5) Toluene-D8(S)	8.30	98	311553	24.37	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.476%
6) 4-Bromofluorobenzene(S)	10.92	174	123213	24.34	ppb	0.00
Spiked Amount				25.000		
					Recovery =	97.376%

Target Compounds Qvalue

Quantitation Report

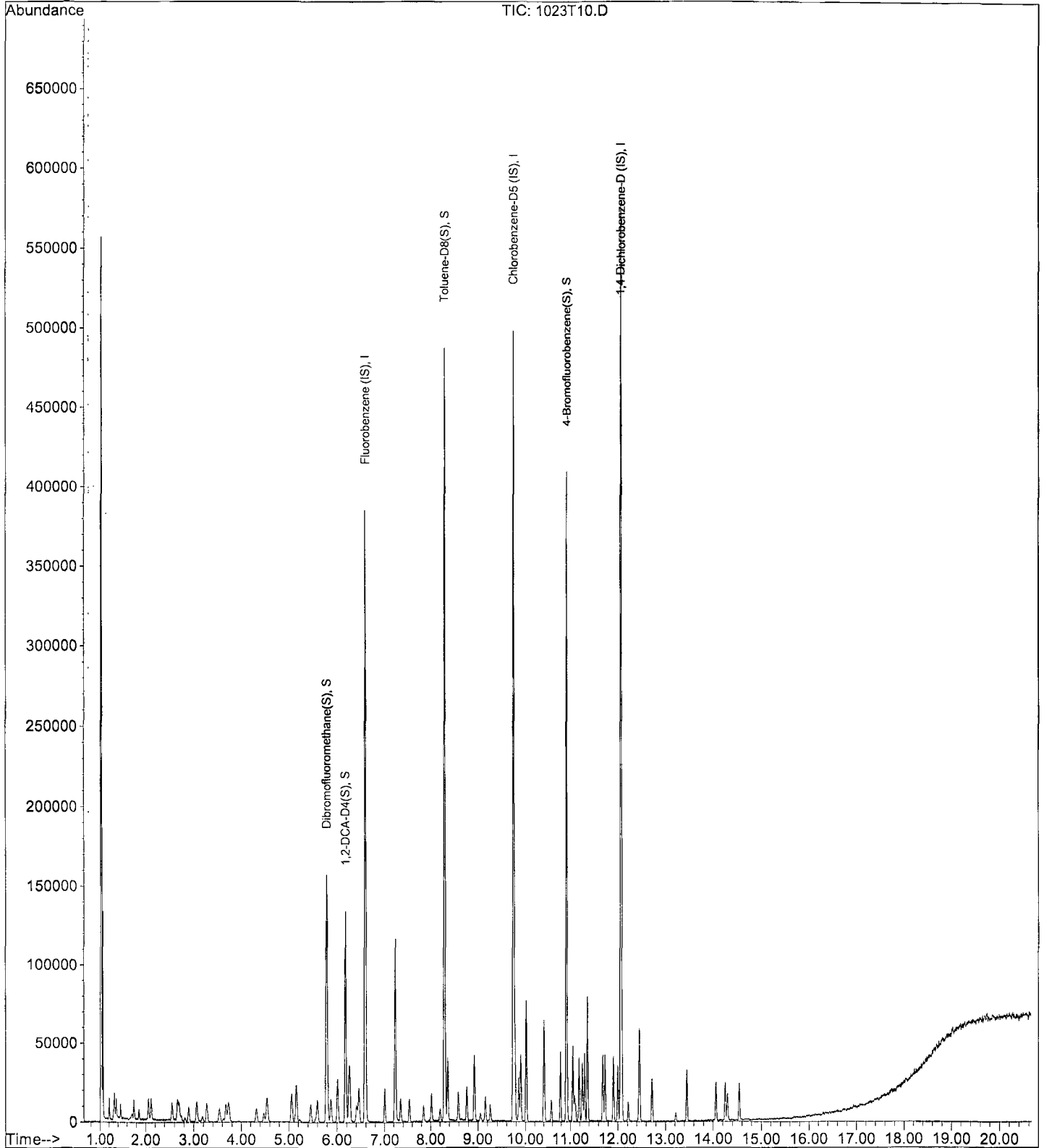
Data File : M:\THOR\DATA\T191023\1023T10.D
Acq On : 23 Oct 19 21:26
Sample : 5.0ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 10
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T11.D Vial: 11
 Acq On : 23 Oct 19 21:55 Operator:
 Sample : 10ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178432	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	159872	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	97112	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	86393	25.12	ppb	0.00
Spiked Amount				25.000		
						Recovery = 100.476%
3) 1,2-DCA-D4(S)	6.18	65	98312	25.53	ppb	0.00
Spiked Amount				25.000		
						Recovery = 102.112%
5) Toluene-D8(S)	8.30	98	314020	26.30	ppb	0.00
Spiked Amount				25.000		
						Recovery = 105.208%
6) 4-Bromofluorobenzene(S)	10.92	174	123099	26.04	ppb	0.00
Spiked Amount				25.000		
						Recovery = 104.180%

Target Compounds Qvalue

Quantitation Report

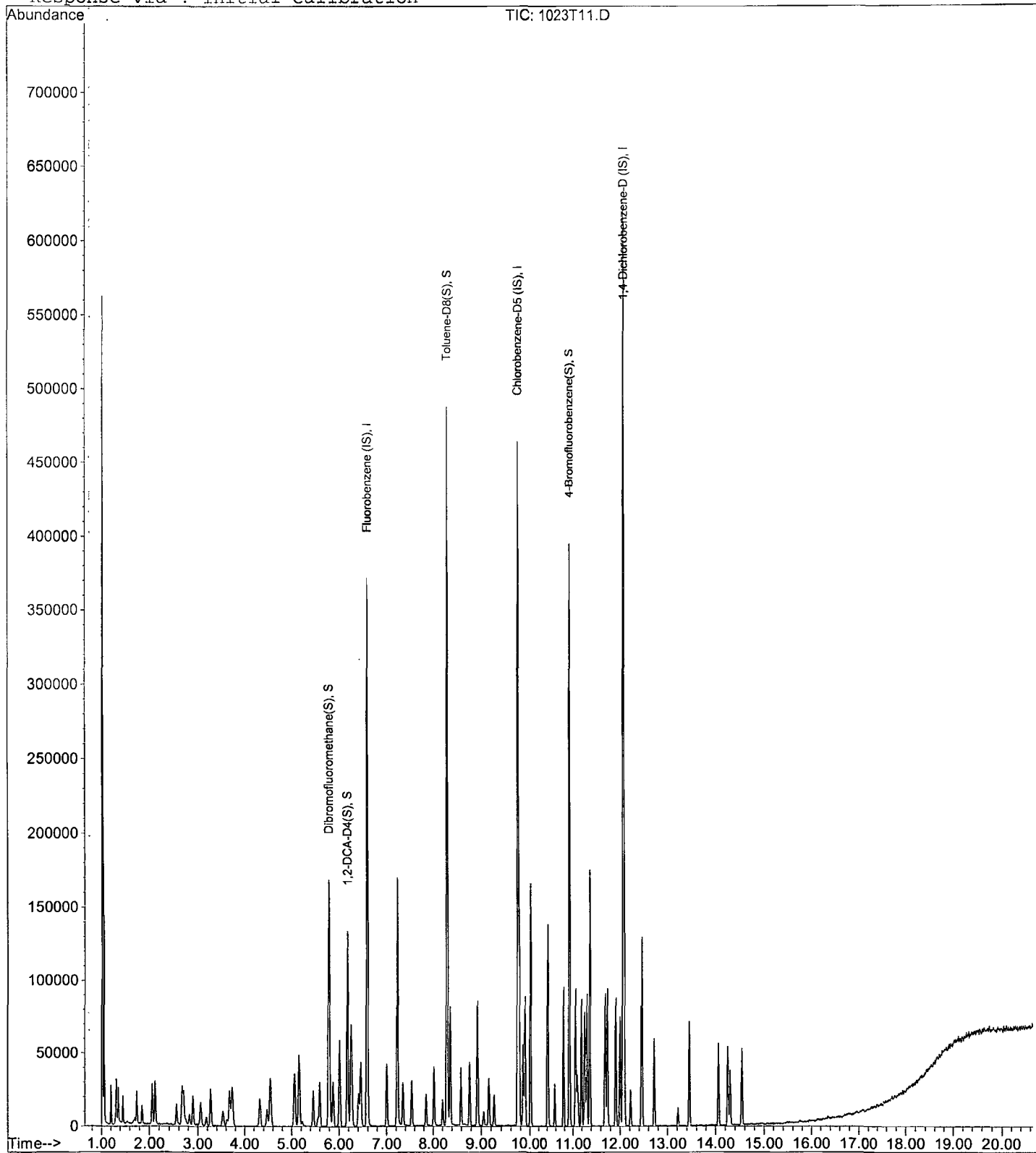
Data File : M:\THOR\DATA\T191023\1023T11.D
Acq On : 23 Oct 19 21:55
Sample : 10ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 11
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T12.D Vial: 12
 Acq On : 23 Oct 19 22:23 Operator:
 Sample : 20ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	180864	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	175808	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.07	152	103912	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.79	111	175433	50.32	ppb	0.00
Spiked Amount	25.000		Recovery	=	201.288%	
3) 1,2-DCA-D4(S)	6.18	65	197560	50.61	ppb	0.00
Spiked Amount	25.000		Recovery	=	202.440%	
5) Toluene-D8(S)	8.30	98	624922	47.60	ppb	0.00
Spiked Amount	25.000		Recovery	=	190.396%	
6) 4-Bromofluorobenzene(S)	10.92	174	252217	48.53	ppb	0.00
Spiked Amount	25.000		Recovery	=	194.104%	

Target Compounds Qvalue

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

Quantitation Report

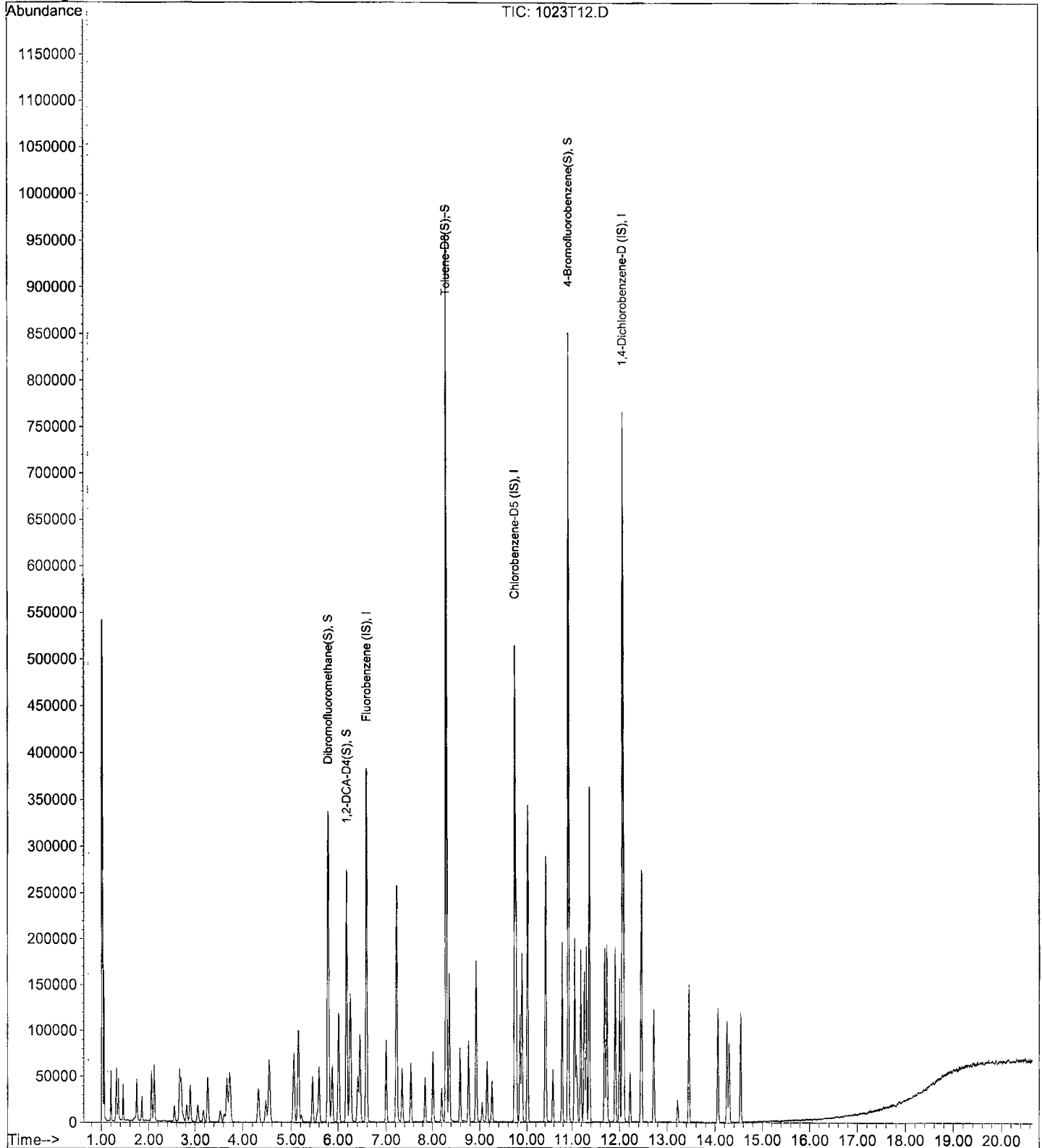
Data File : M:\THOR\DATA\T191023\1023T12.D
Acq On : 23 Oct 19 22:23
Sample : 20ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 12
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T13.D Vial: 13
 Acq On : 23 Oct 19 22:52 Operator:
 Sample : 40ug/L VOC STD 10/23/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019 Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	178368	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	169472	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	101648	25.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dibromofluoromethane(S)	5.79	111	174185	50.66	ppb	0.00
Spiked Amount				25.000		
					Recovery =	202.652%
3) 1,2-DCA-D4(S)	6.18	65	193525	50.27	ppb	0.00
Spiked Amount				25.000		
					Recovery =	201.080%
5) Toluene-D8(S)	8.30	98	644008	50.89	ppb	0.00
Spiked Amount				25.000		
					Recovery =	203.544%
6) 4-Bromofluorobenzene(S)	10.92	174	254916	50.88	ppb	0.00
Spiked Amount				25.000		
					Recovery =	203.516%

Target Compounds Qvalue

Quantitation Report

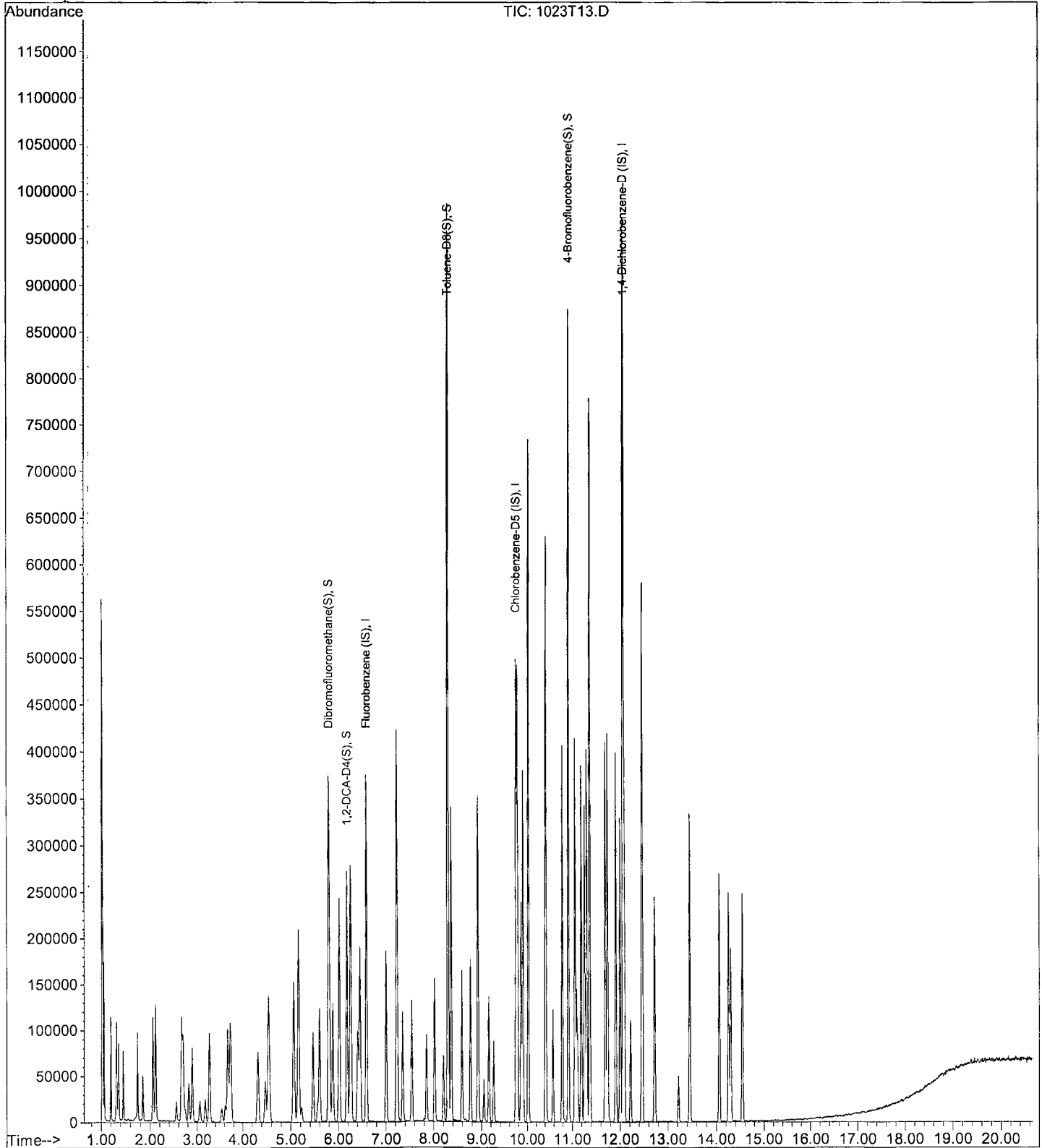
Data File : M:\THOR\DATA\T191023\1023T13.D
Acq On : 23 Oct 19 22:52
Sample : 40ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 13
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1023T14.D
 Acq On : 23 Oct 19 23:20
 Sample : 100ug/L VOC STD 10/23/19
 Misc : IS&S 9/23/19

Vial: 14
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Quant Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Oct 24 09:27:29 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	96	177408	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.74	117	165184	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.06	152	110936	25.00	ppb	0.00

System Monitoring Compounds

2) Dibromofluoromethane(S)	5.79	111	323935	94.73	ppb	0.00
Spiked Amount 25.000			Recovery =	378.912%		
3) 1,2-DCA-D4(S)	6.18	65	358548	93.64	ppb	0.00
Spiked Amount 25.000			Recovery =	374.564%		
5) Toluene-D8(S)	8.30	98	1198840	97.19	ppb	0.00
Spiked Amount 25.000			Recovery =	388.740%		
6) 4-Bromofluorobenzene(S)	10.92	174	507561	103.93	ppb	0.00
Spiked Amount 25.000			Recovery =	415.736%		

Target Compounds

Qvalue

Quantitation Report

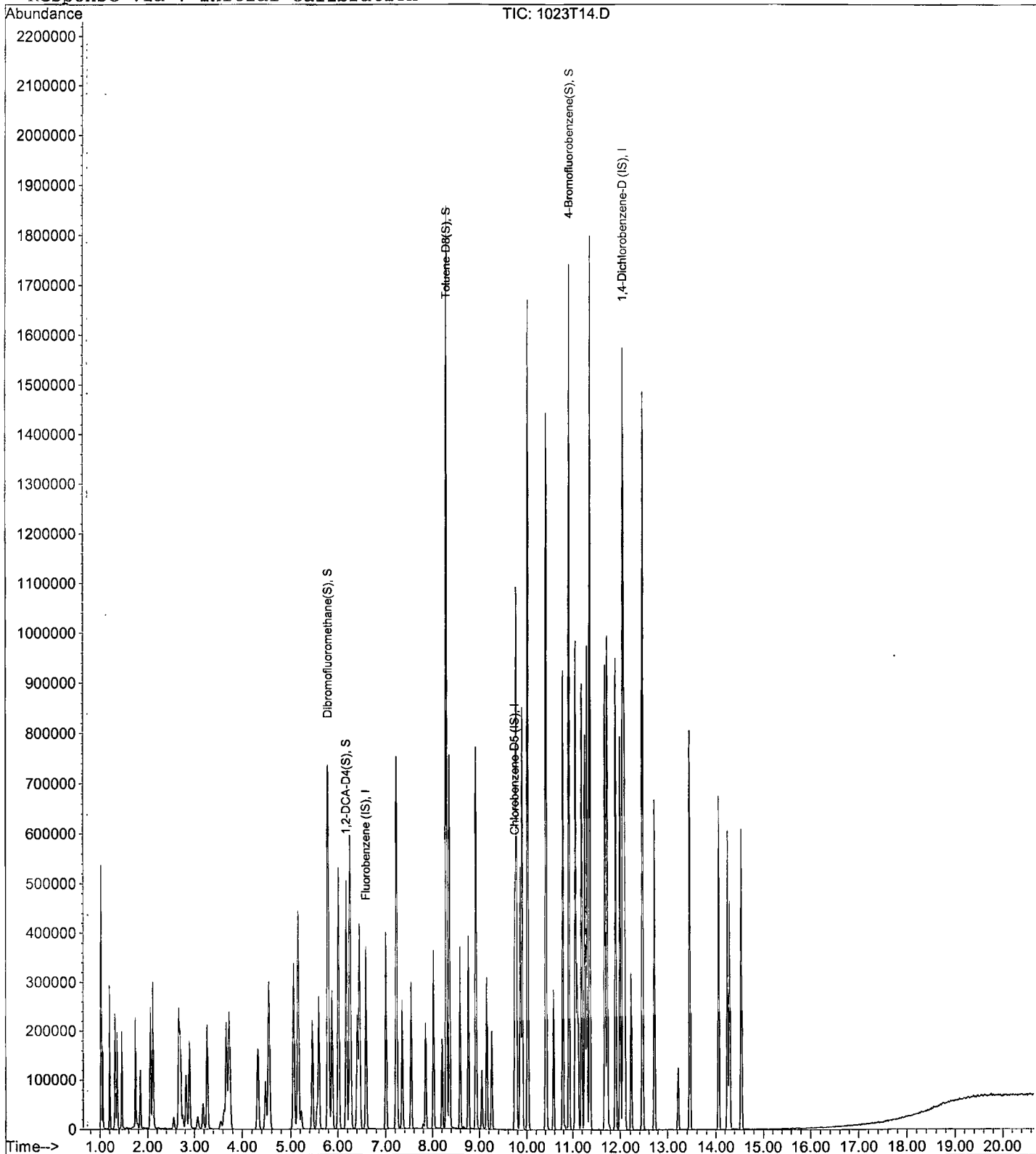
Data File : M:\THOR\DATA\T191023\1023T14.D
Acq On : 23 Oct 19 23:20
Sample : 100ug/L VOC STD 10/23/19
Misc : IS&S 9/23/19

Vial: 14
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 24 8:47 2019

Quant Results File: TSUR1023.RES

Method : M:\THOR\DATA\T191023\TSUR1023.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Oct 24 09:27:29 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

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

SDG No: _____
Initial Cal. Date: 10/23/2019
Instrument: Thor

Initials: _____

1026T02.D 1026T03.D 1026T04.D 1026T05.D 1026T06.D 1026T07.D 1026T08.D

	Compound	1	2	3	4	5	6	7			Avg	%RSD	Type	r ²	Q	MRF
1	I Fluorobenzene (IS)															
2	TMHBL Gasoline C6-C10	12.7	5.185	2.689	1.053	0.7251	0.6177				3.8	122	TMHBL	0.991		
3	I Chlorobenzene-D5 (IS)															
4	I 1,4-Dichlorobenzene-D (IS)															
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Data File : M:\THOR\DATA\T191023\1026T02.D
 Acq On : 26 Oct 19 12:41
 Sample : 20ug/L GAS 10/26/19
 Misc : IS&S 9/23/19

Vial: 2
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 28 10:27 2019

Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	325203	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	402502	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	430991	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3299042m	24.15	ppb	100

Quantitation Report

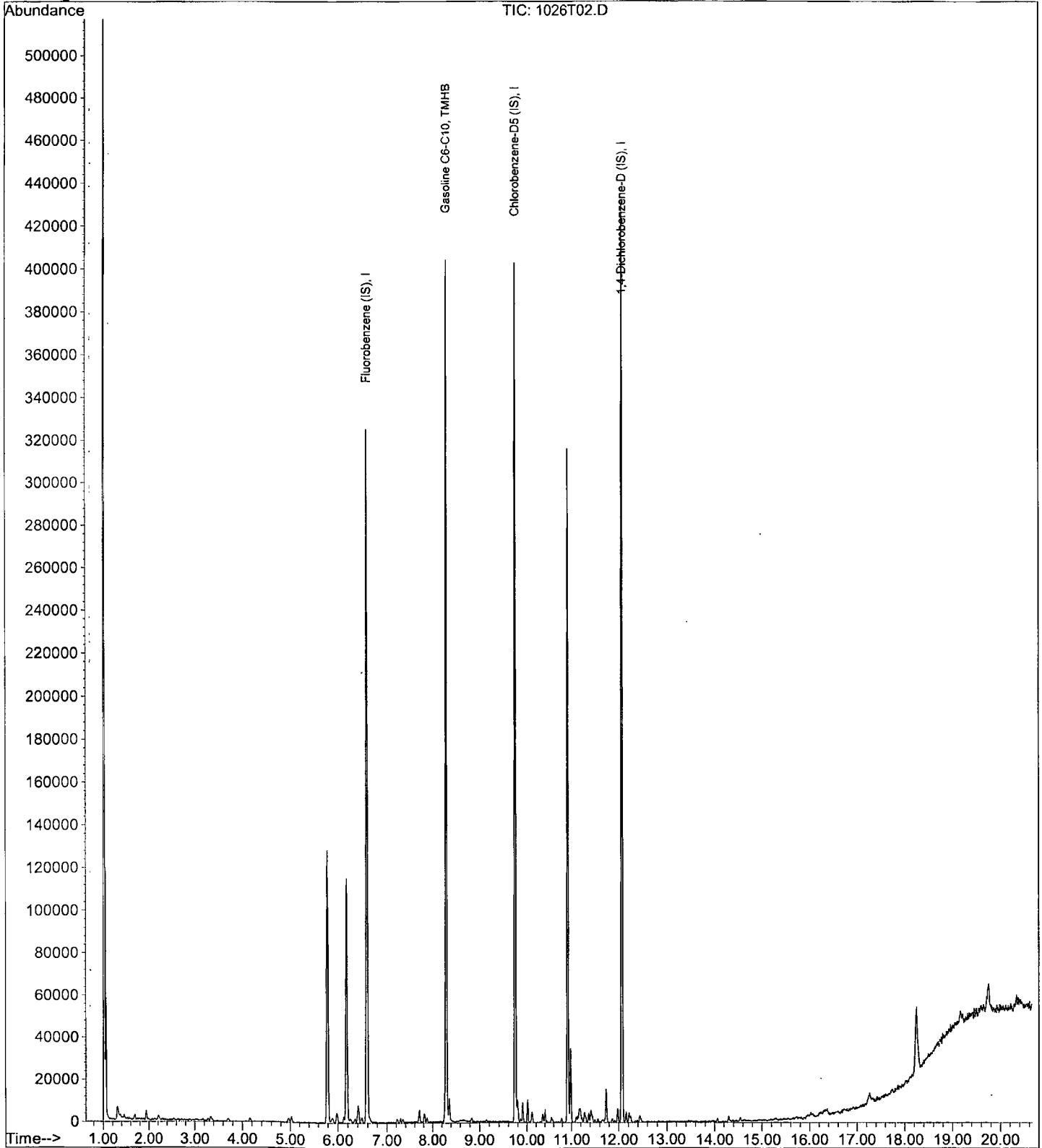
Data File : M:\THOR\DATA\T191023\1026T02.D
Acq On : 26 Oct 19 12:41
Sample : 20ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 2
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:27 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T03.D Vial: 3
 Acq On : 26 Oct 19 13:09 Operator:
 Sample : 50ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:17 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	321177	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392178	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.07	TIC	407724	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3330329m	43.72	ppb	100

Quantitation Report

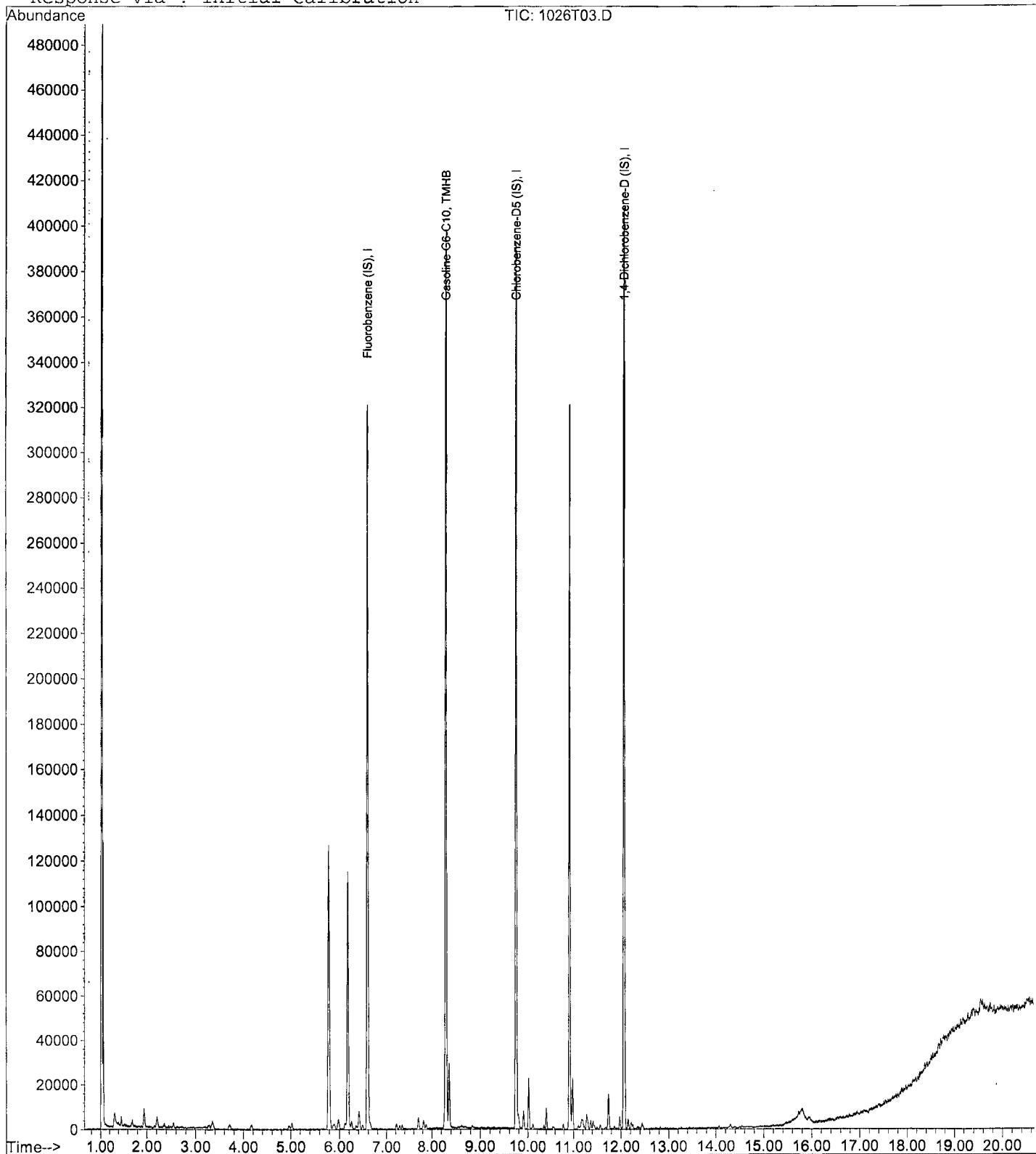
Data File : M:\THOR\DATA\T191023\1026T03.D
Acq On : 26 Oct 19 13:09
Sample : 50ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 3
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:17 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T04.D Vial: 4
 Acq On : 26 Oct 19 13:37 Operator:
 Sample : 100ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 11:21 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	324811	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392744	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	413459	25.00 ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	3493186m	77.30 ppb	100

Quantitation Report

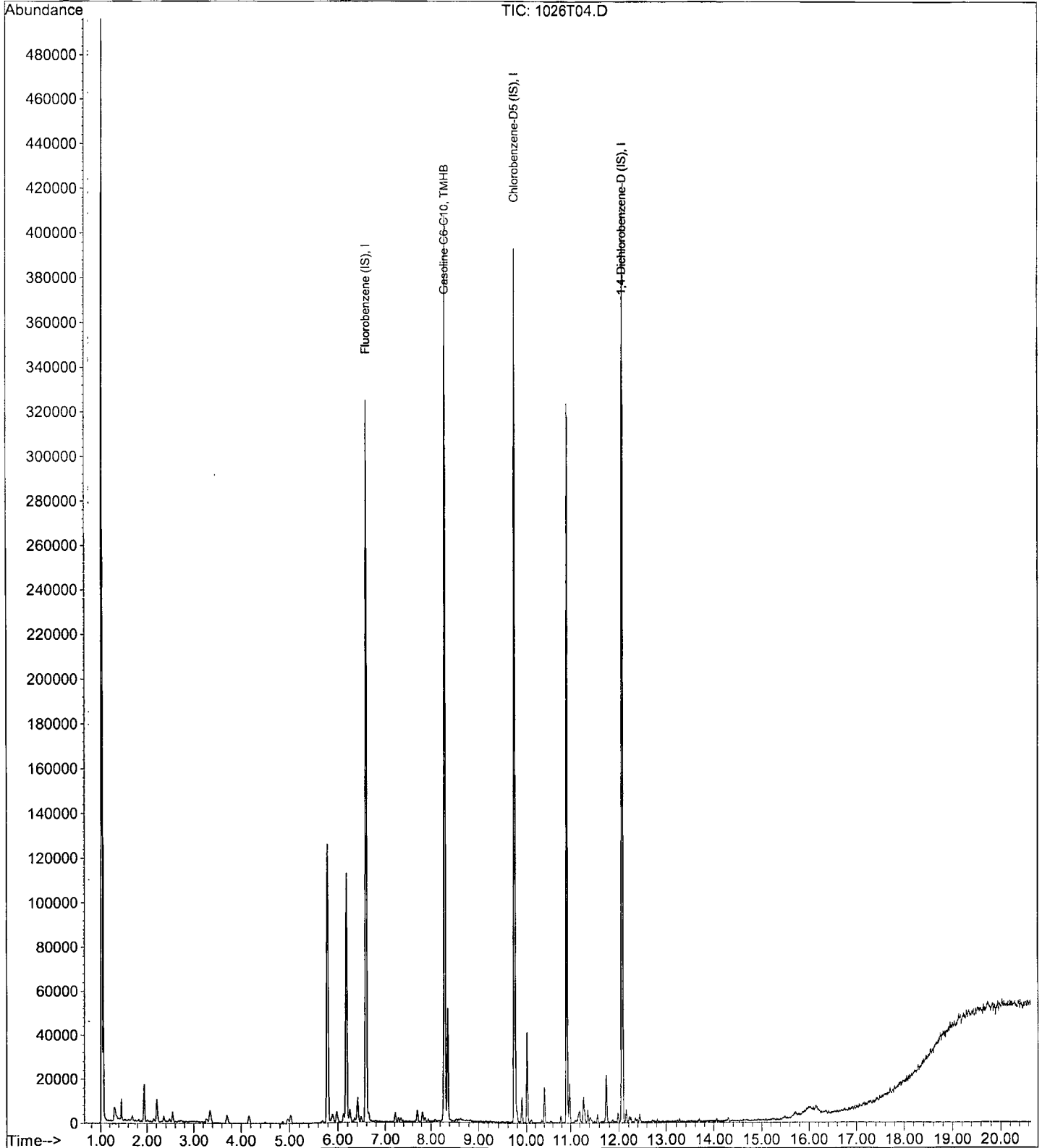
Data File : M:\THOR\DATA\T191023\1026T04.D
Acq On : 26 Oct 19 13:37
Sample : 100ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 4
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:21 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T05.D
 Acq On : 26 Oct 19 14:06
 Sample : 300ug/L GAS 10/26/19
 Misc : IS&S 9/23/19

Vial: 5
 Operator:
 Inst : Thor
 Multiplr: 1.00

Quant Time: Oct 28 11:14 2019

Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	338187	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	410094	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	434804	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4271474m	240.75	ppb	100

Quantitation Report

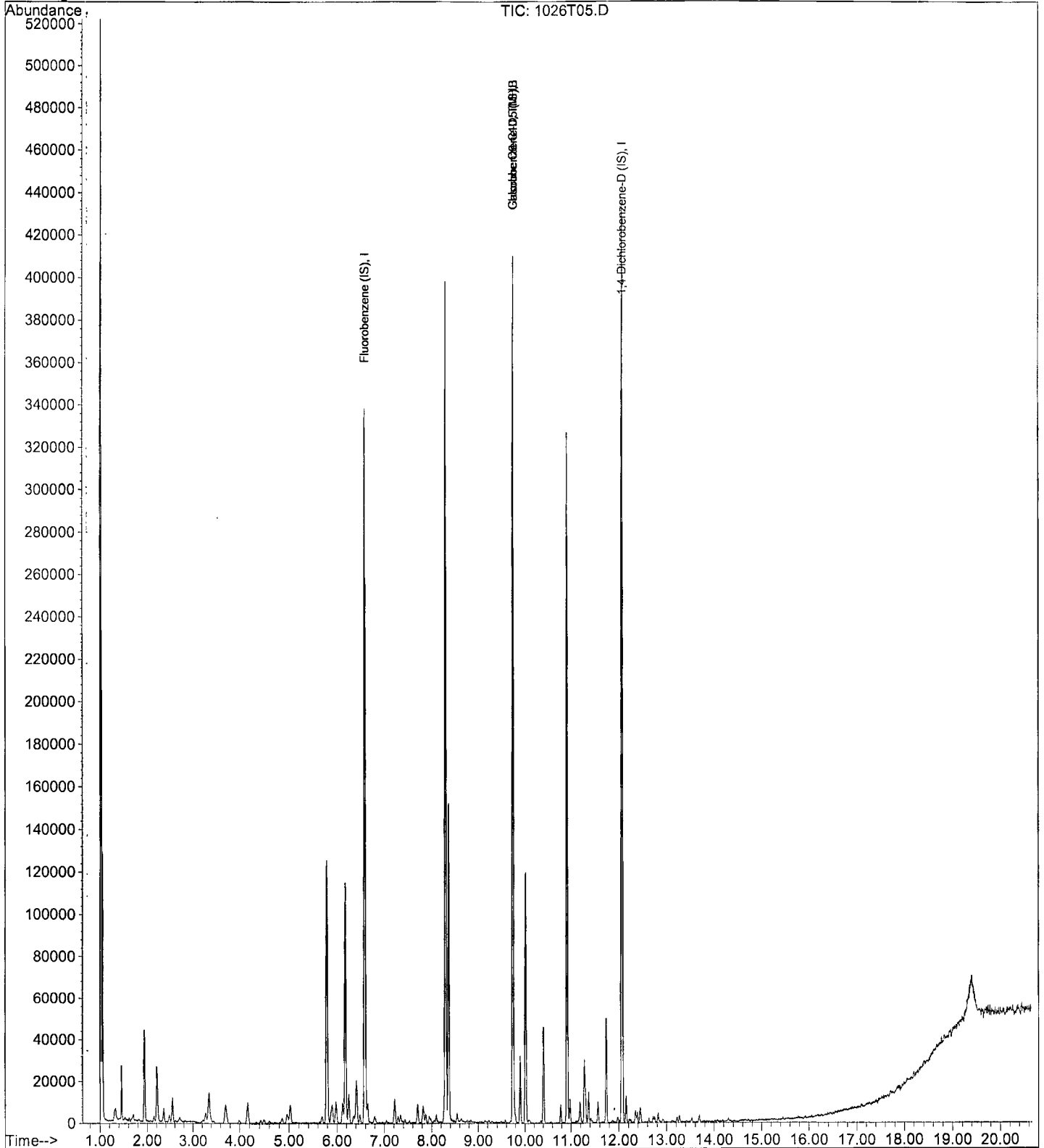
Data File : M:\THOR\DATA\T191023\1026T05.D
Acq On : 26 Oct 19 14:06
Sample : 300ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 5
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 11:14 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T06.D Vial: 6
 Acq On : 26 Oct 19 14:34 Operator:
 Sample : 600ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 10:30 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	311099	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	392304	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	407391	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.30	TIC	5413641m	656.44	ppb	100

Quantitation Report

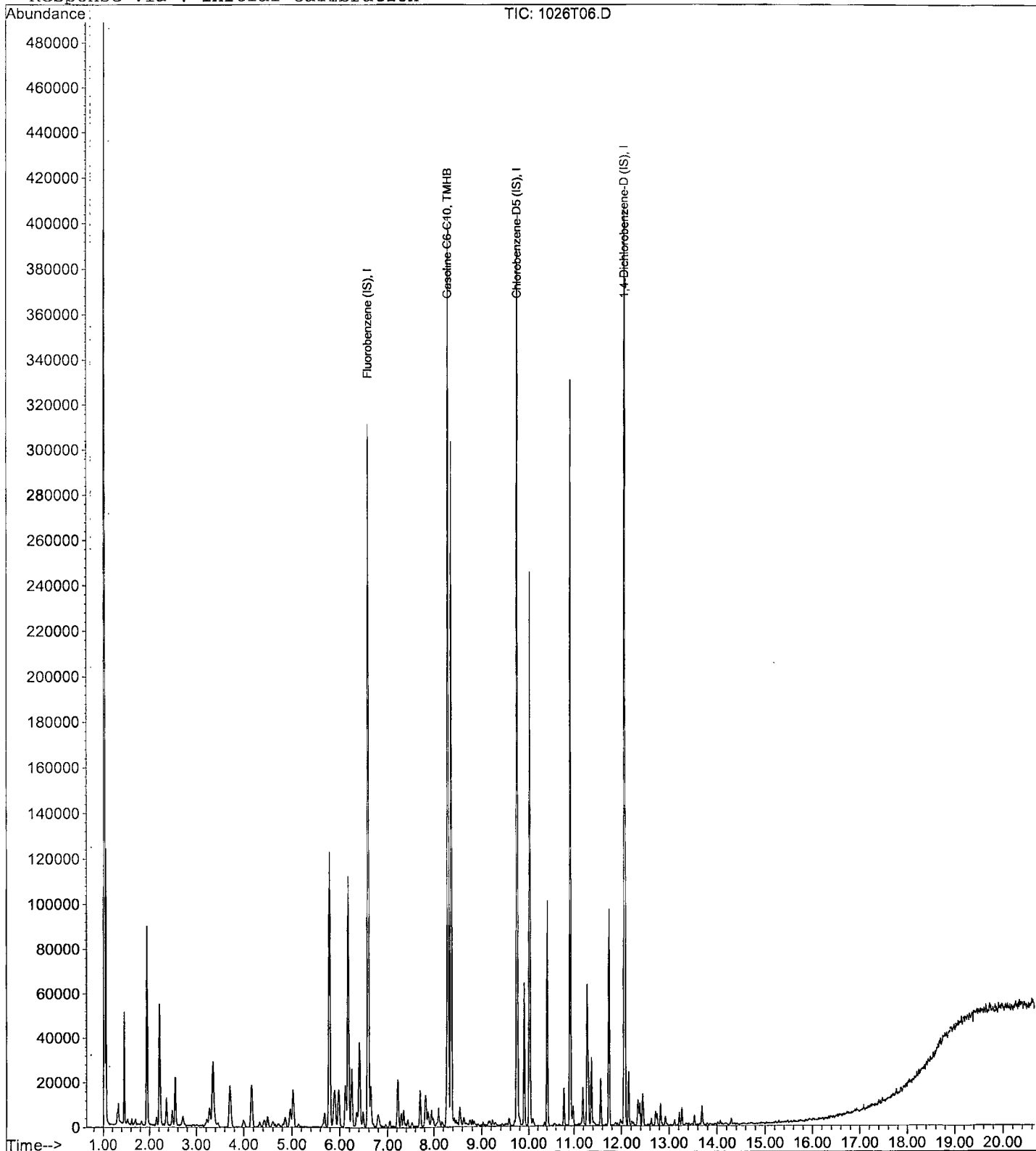
Data File : M:\THOR\DATA\T191023\1026T06.D
Acq On : 26 Oct 19 14:34
Sample : 600ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 6
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:30 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



Data File : M:\THOR\DATA\T191023\1026T07.D Vial: 7
 Acq On : 26 Oct 19 15:03 Operator:
 Sample : 800ug/L GAS 10/26/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 10:31 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 11:13:21 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	329742	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	399858	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	434700	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	8.36	TIC	6517501m	862.39	ppb	100

Quantitation Report

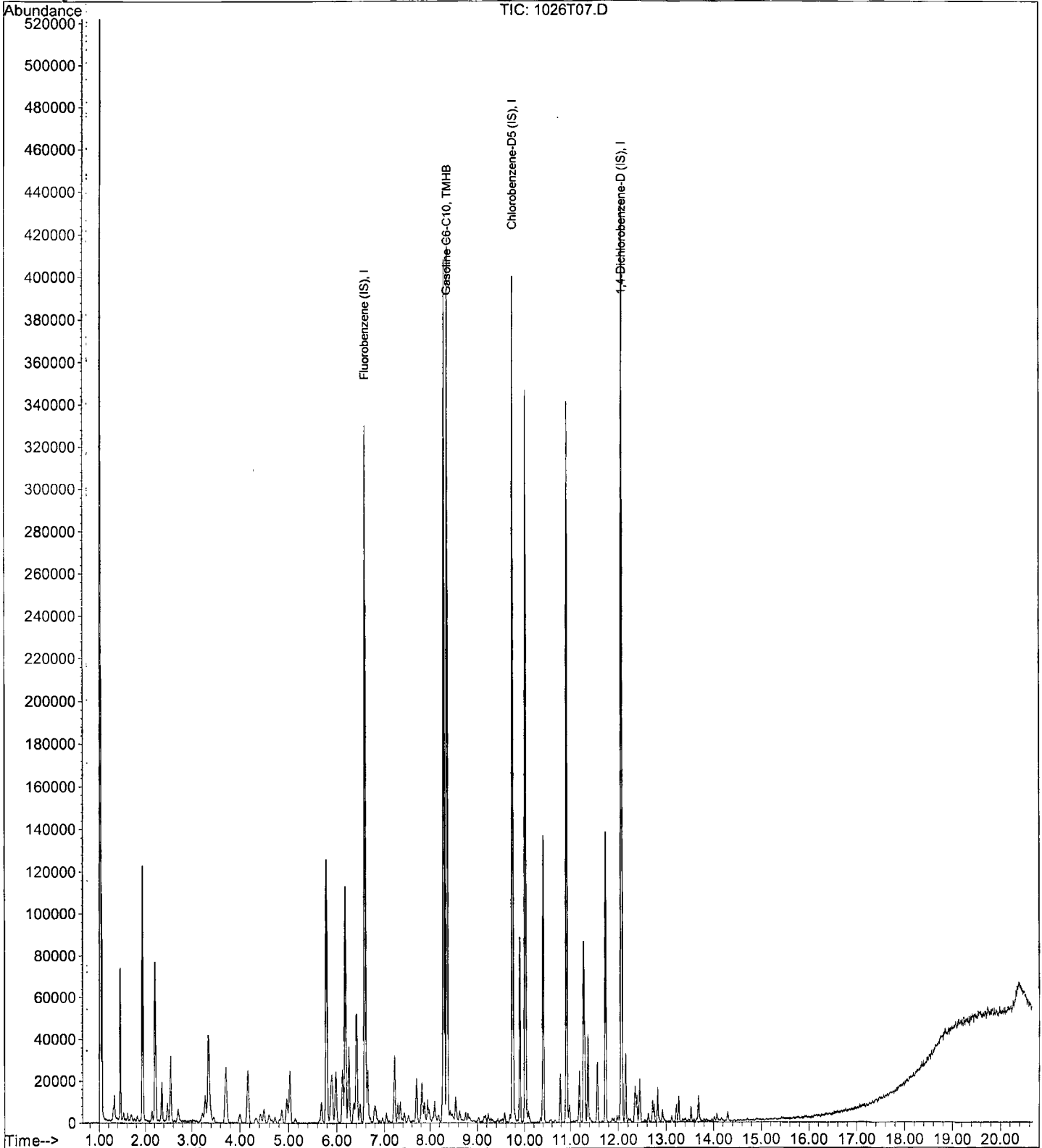
Data File : M:\THOR\DATA\T191023\1026T07.D
Acq On : 26 Oct 19 15:03
Sample : 800ug/L GAS 10/26/19
Misc : IS&S 9/23/19

Vial: 7
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 10:31 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/28/2019

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/23/2019

Data File: 1028T01.D

	Compound	MEAN	CCRF	%D	%Drift
1	TMHB Gasoline C6-C10	3.825	1.077	72	TMHBL 11
2					
3					
4					
5					
6					
7					
8					
9					
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29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			72.0	

Data File : M:\THOR\DATA\T191028\1028T01.D Vial: 1
 Acq On : 28 Oct 19 15:43 Operator:
 Sample : (SS) 300ug/L GAS 10/28/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 28 15:45 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	6.58	TIC	356344	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	432263	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	455917	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4607248m	265.64	ppb	100

Quantitation Report

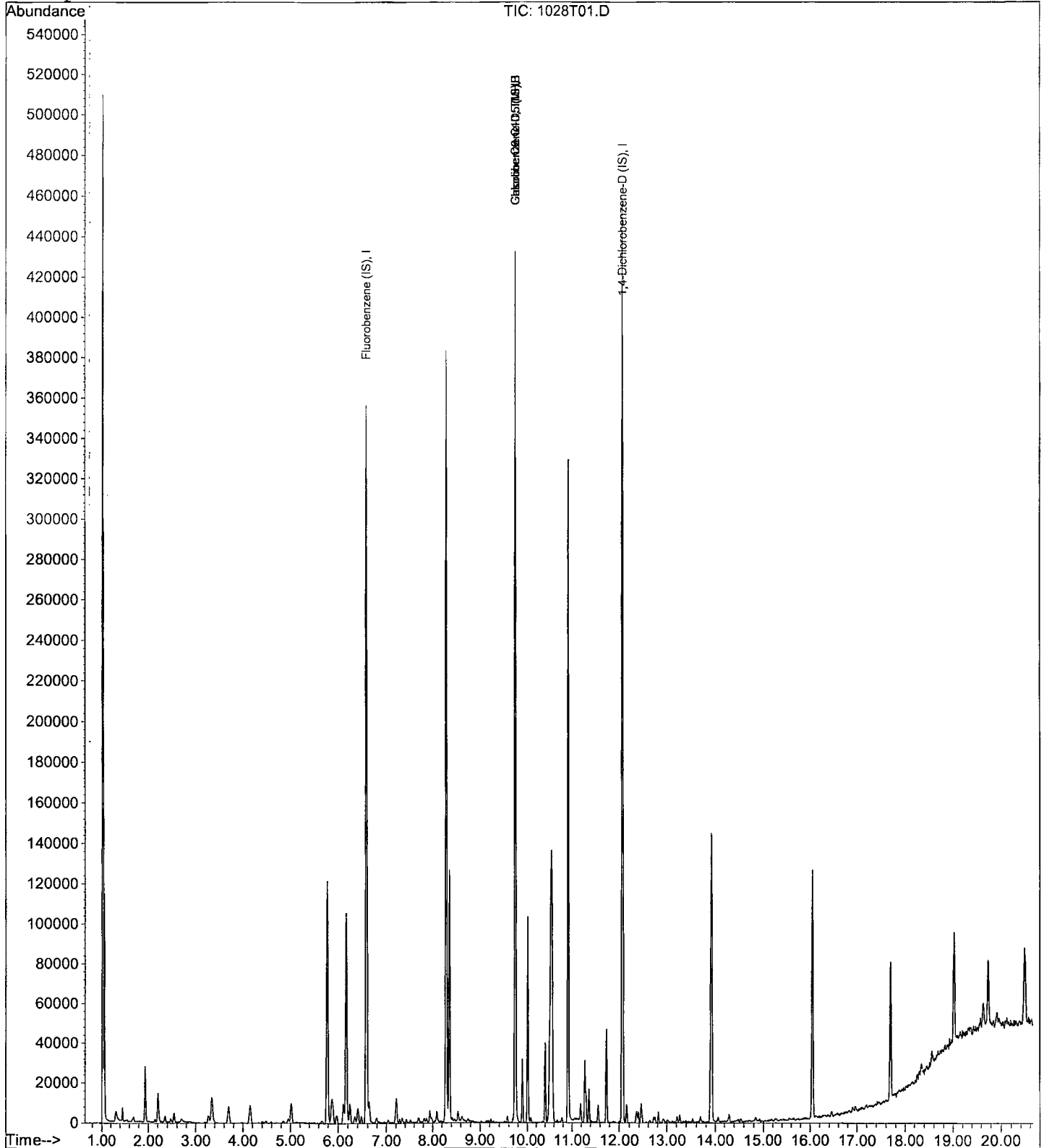
Data File : M:\THOR\DATA\T191028\1028T01.D
Acq On : 28 Oct 19 15:43
Sample : (SS) 300ug/L GAS 10/28/19
Misc : IS&S 9/23/19

Vial: 1
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 28 15:45 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No: _____
Date Analyzed: 10/30/2019
Instrument: Thor
Initial Cal. Date: 10/26/2019
Data File: 1029T31.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	3.825	1.145	70	TMHBL	10
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
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37							
38							
39							
40		Average			70.0		

Data File : M:\THOR\DATA\T191028\1029T31.D Vial: 31
 Acq On : 30 Oct 19 1:57 Operator:
 Sample : 191029B CCV/LCS 300ug/L Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant. Time: Oct 31 11:00 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	314141	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	396838	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	436847	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	4317801m	330.16	ppb	100

Quantitation Report

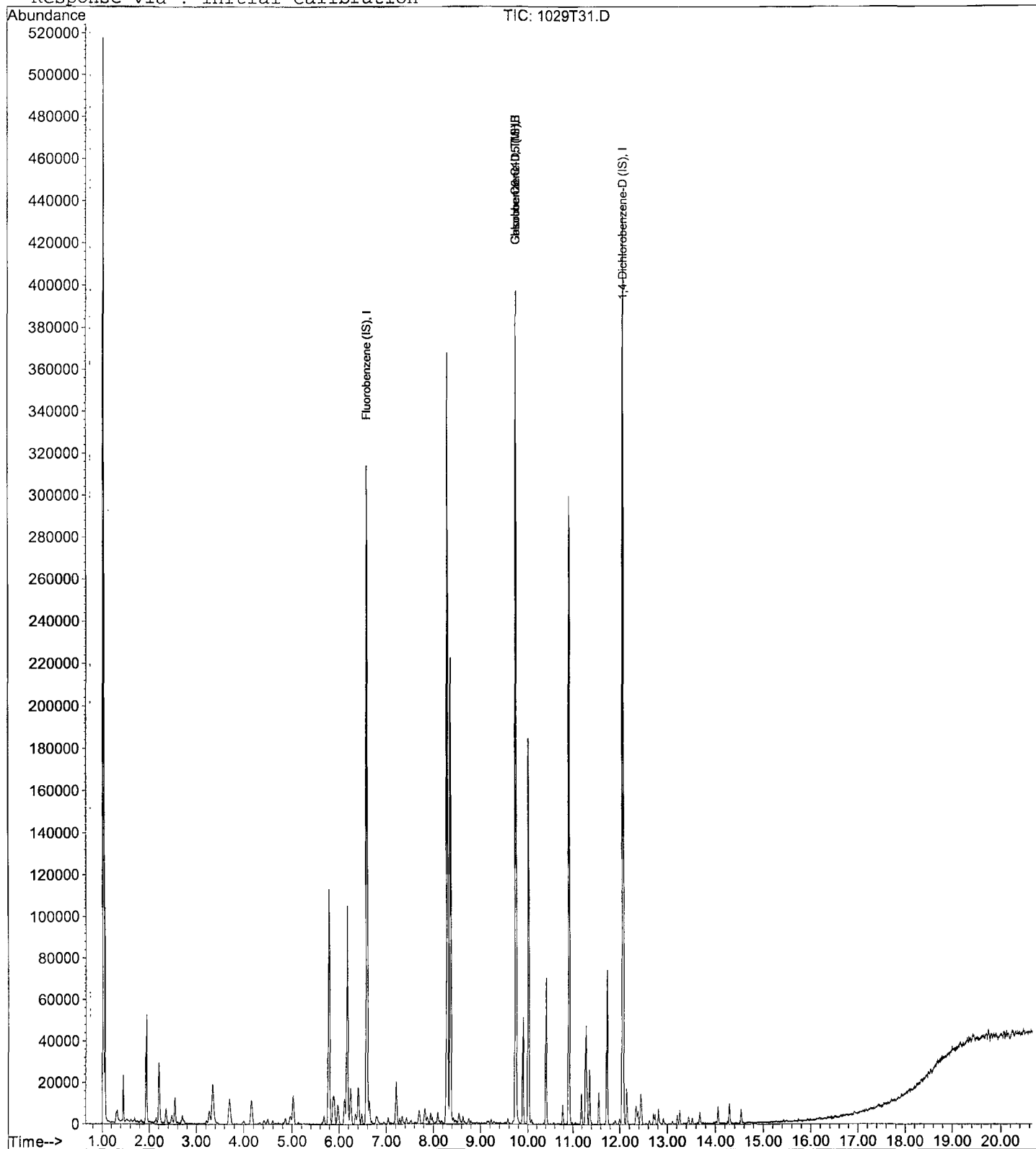
Data File : M:\THOR\DATA\T191028\1029T31.D
Acq On : 30 Oct 19 1:57
Sample : 191029B CCV/LCS 300ug/L
Misc : IS&S 9/23/19

Vial: 31
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 31 11:00 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/30/2019

Matrix: _____

Instrument: Thor

Initial Cal. Date: 10/26/2019

Data File: 1029T48.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	3.825	1.072	72	TMHBL	13
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
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39							
40							

Average

72.0

Data File : M:\THOR\DATA\T191028\1029T48.D Vial: 48
 Acq On : 30 Oct 19 9:58 Operator:
 Sample : Ending CCV 300ug/L 10/29/19 Inst : Thor
 Misc : IS&S 9/23/19 Multiplr: 1.00

Quant Time: Oct 30 9:38 2019 Quant Results File: TGAS1026.RES

Quant Method : M:\THOR\DATA\T191028\TGAS1026.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 28 12:08:31 2019
 Response via : Initial Calibration
 DataAcq Meth : T8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.59	TIC	285147	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	9.74	TIC	355492	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	12.06	TIC	395845	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline C6-C10	9.74	TIC	3666475m	260.02	ppb	100

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

Quantitation Report

Data File : M:\THOR\DATA\T191028\1029T48.D
Acq On : 30 Oct 19 9:58
Sample : Ending CCV 300ug/L 10/29/19
Misc : IS&S 9/23/19

Vial: 48
Operator:
Inst : Thor
Multiplr: 1.00

Quant Time: Oct 30 9:38 2019

Quant Results File: TGAS1026.RES

Method : M:\THOR\DATA\T191023\TGAS1026.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 28 12:08:31 2019
Response via : Initial Calibration

