Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

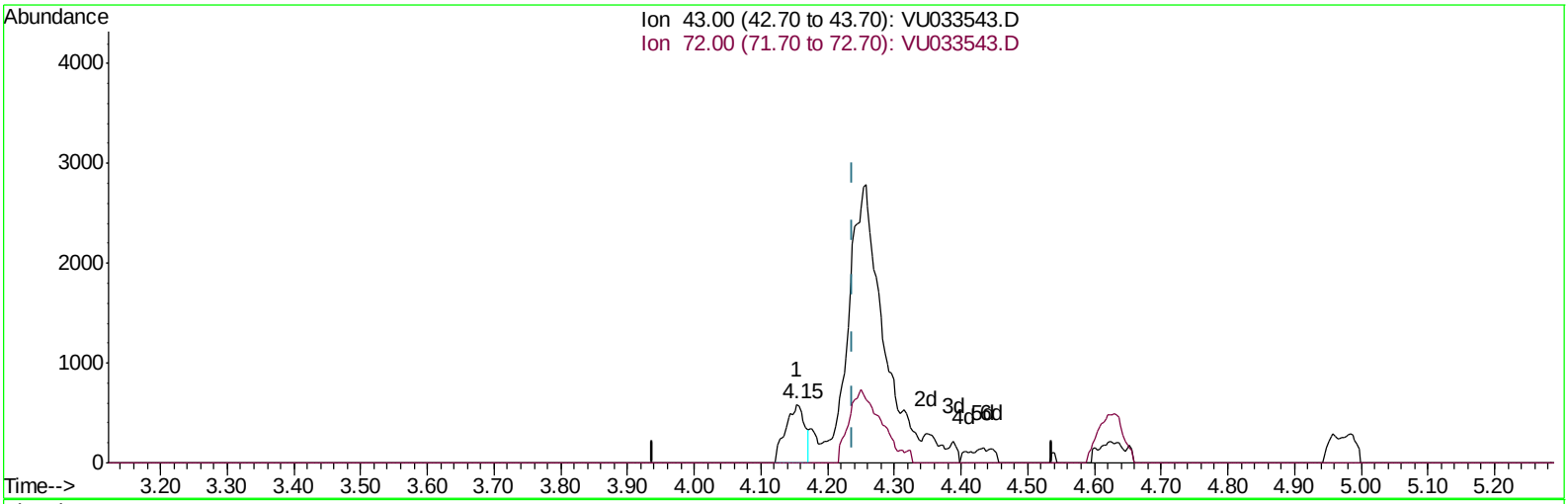
Quantitation Report (Qedit)

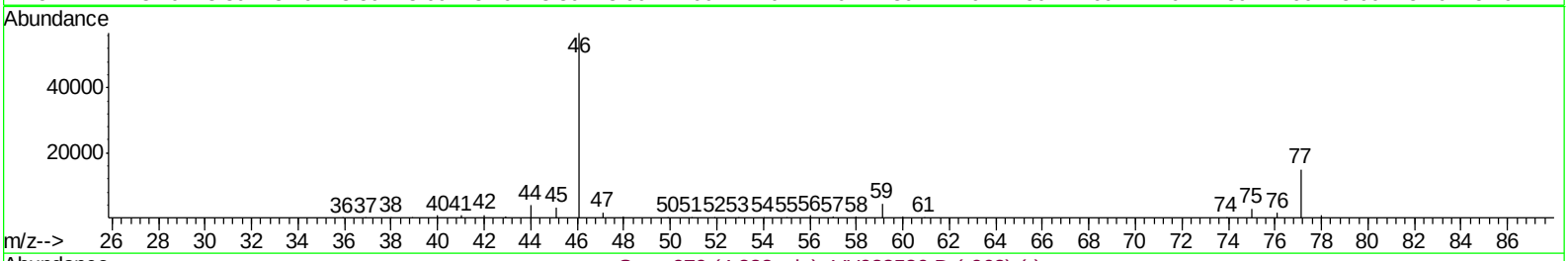
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

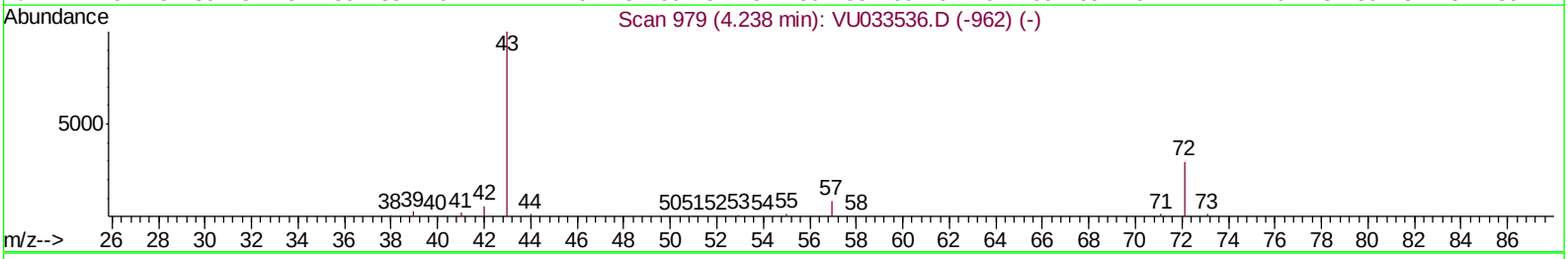
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(22) 2-Butanone (T)

4.154min (-0.084) 0.65ug/L

response 1153

Ion	Exp%	Act%
43.00	100	100
72.00	28.40	206.16#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

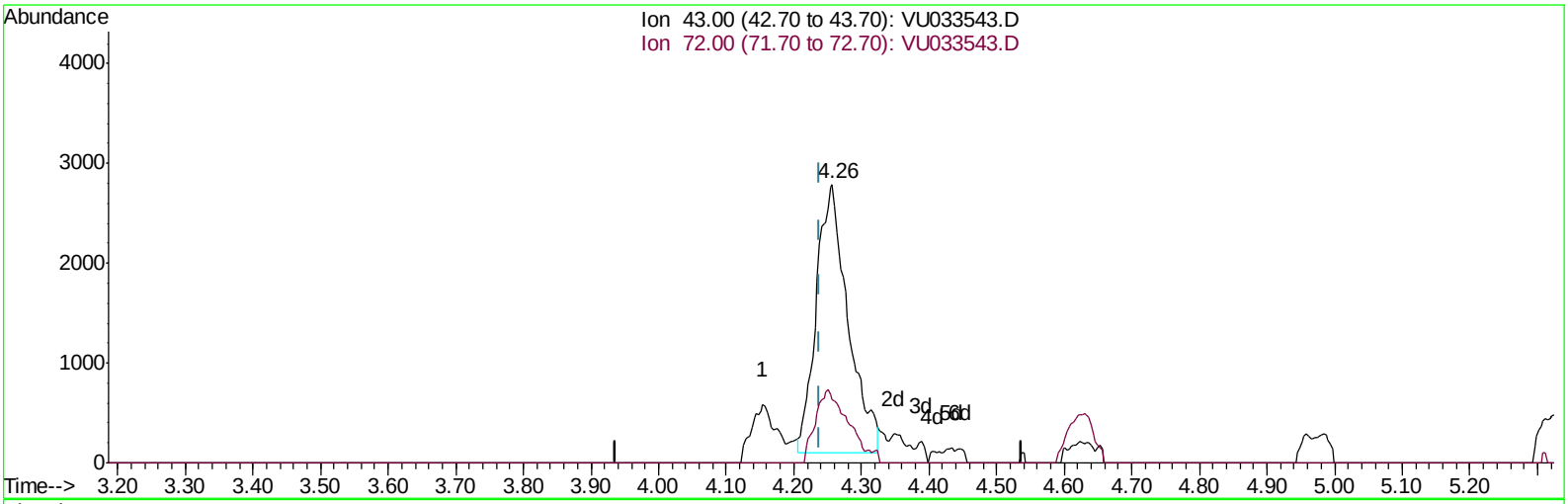
Quantitation Report (Qedit)

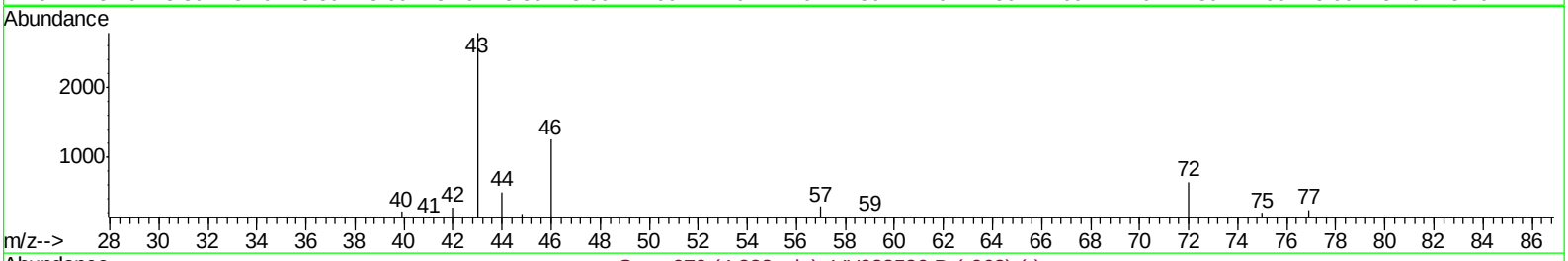
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

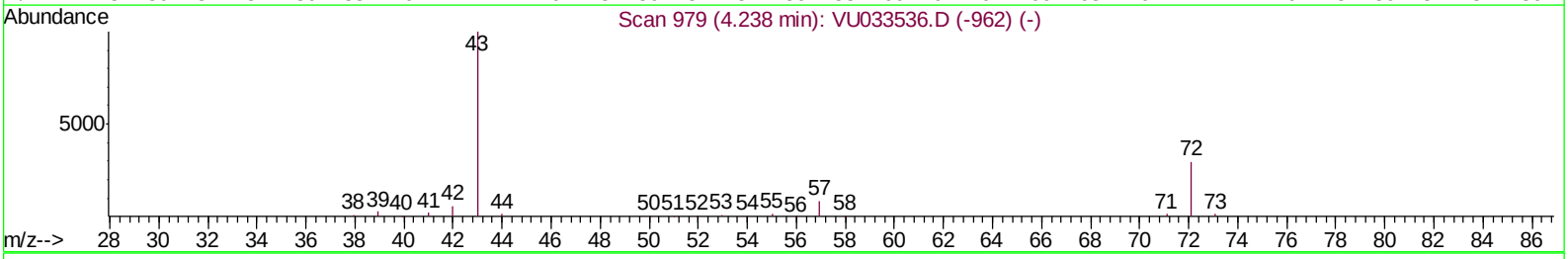
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(22) 2-Butanone (T)

4.257min (+0.019) 4.95ug/L m

response 8753

Ion	Exp%	Act%
43.00	100	100
72.00	28.40	27.16
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

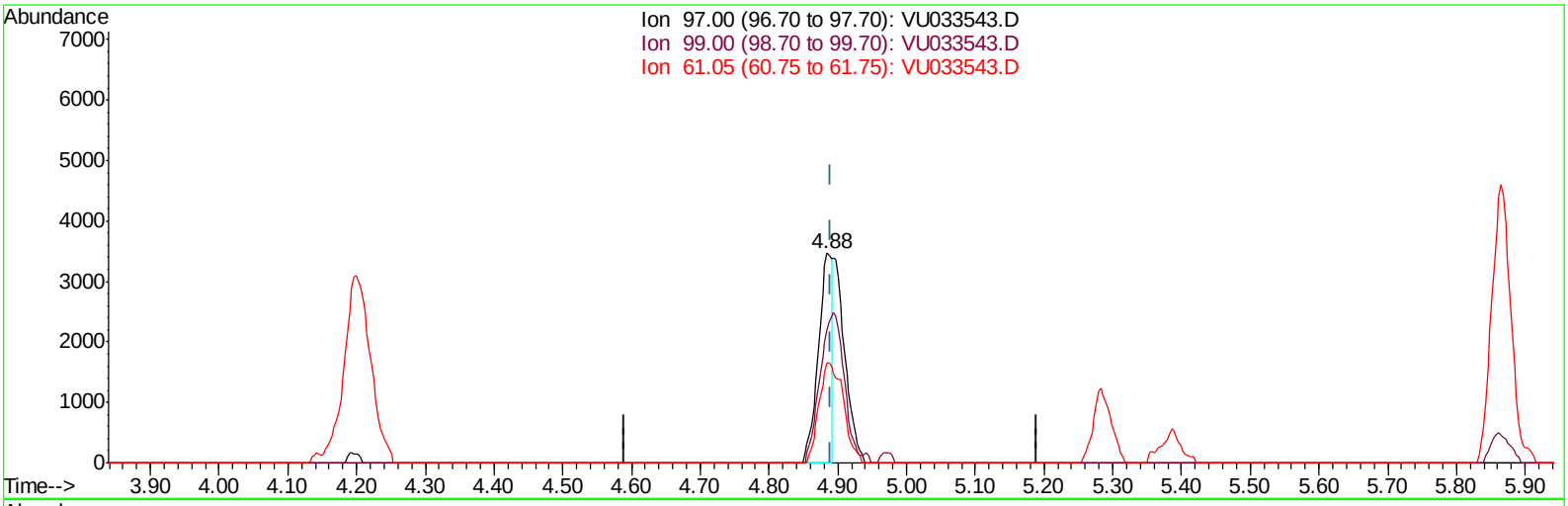
Quantitation Report (Qedit)

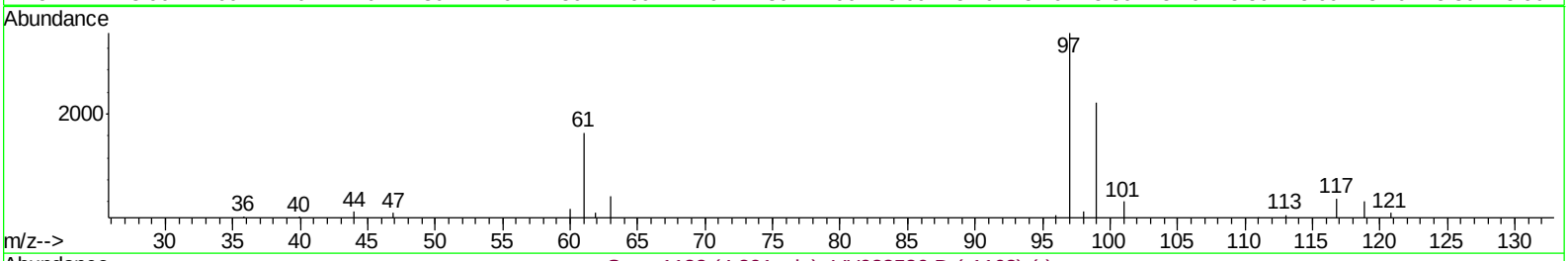
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

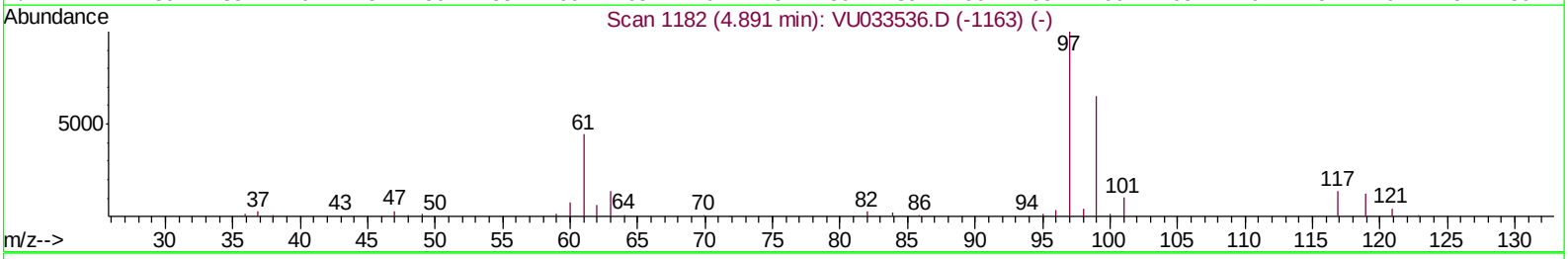
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(30) 1,1,1-Trichloroethane (T)

4.884min (-0.007) 1.35ug/L

response 4680

Ion	Exp%	Act%
97.00	100	100
99.00	63.90	129.42#
61.05	44.40	63.48#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

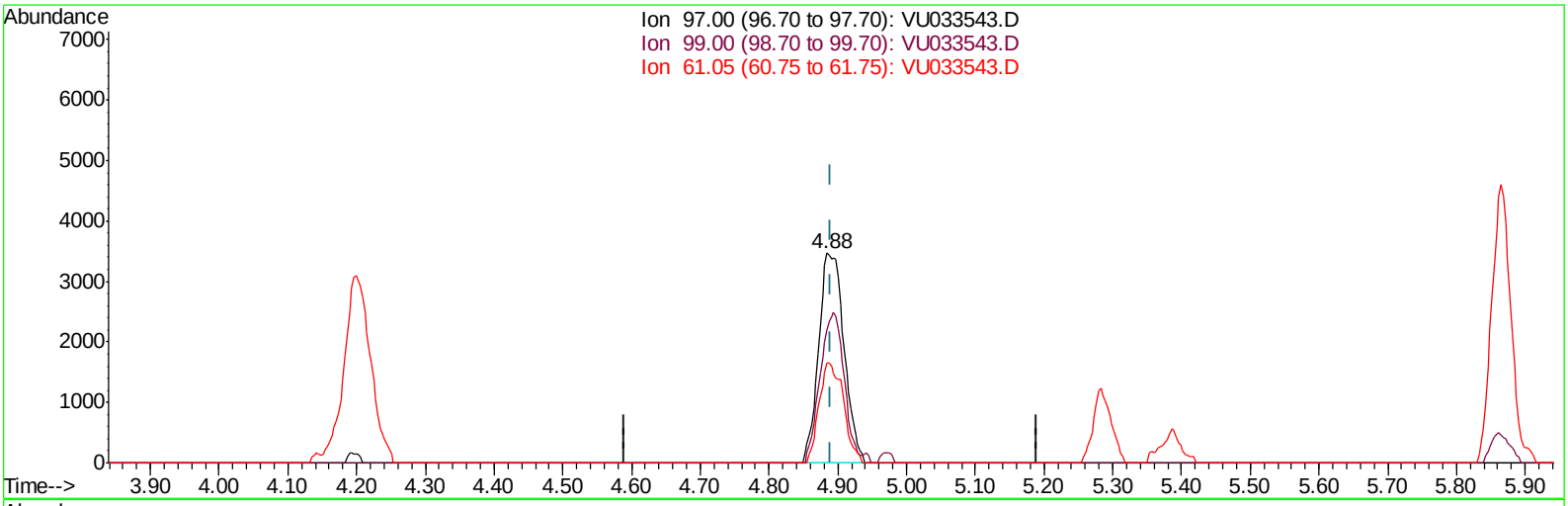
Quantitation Report (Qedit)

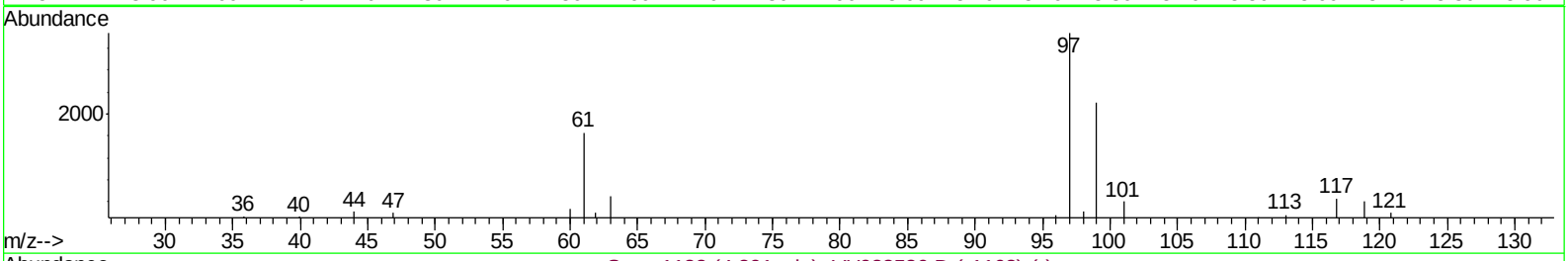
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

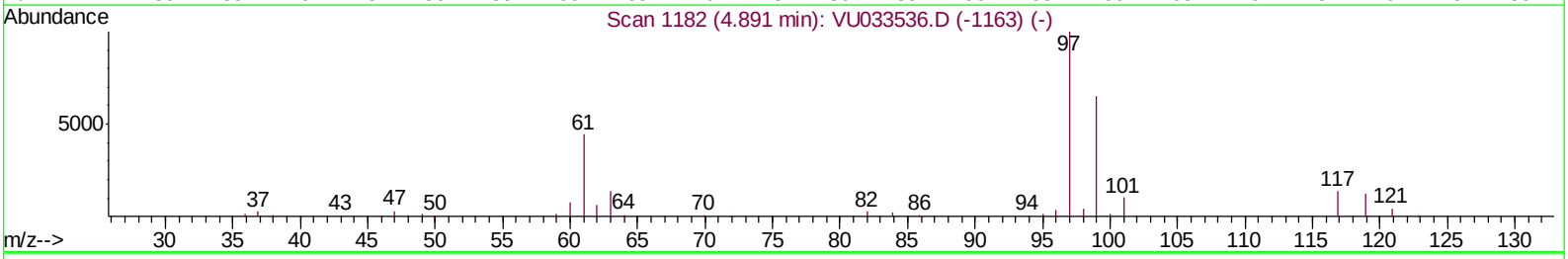
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(30) 1,1,1-Trichloroethane (T)

4.884min (-0.007) 2.56ug/L m

response 8882

Ion	Exp%	Act%
97.00	100	100
99.00	63.90	68.19
61.05	44.40	33.45#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

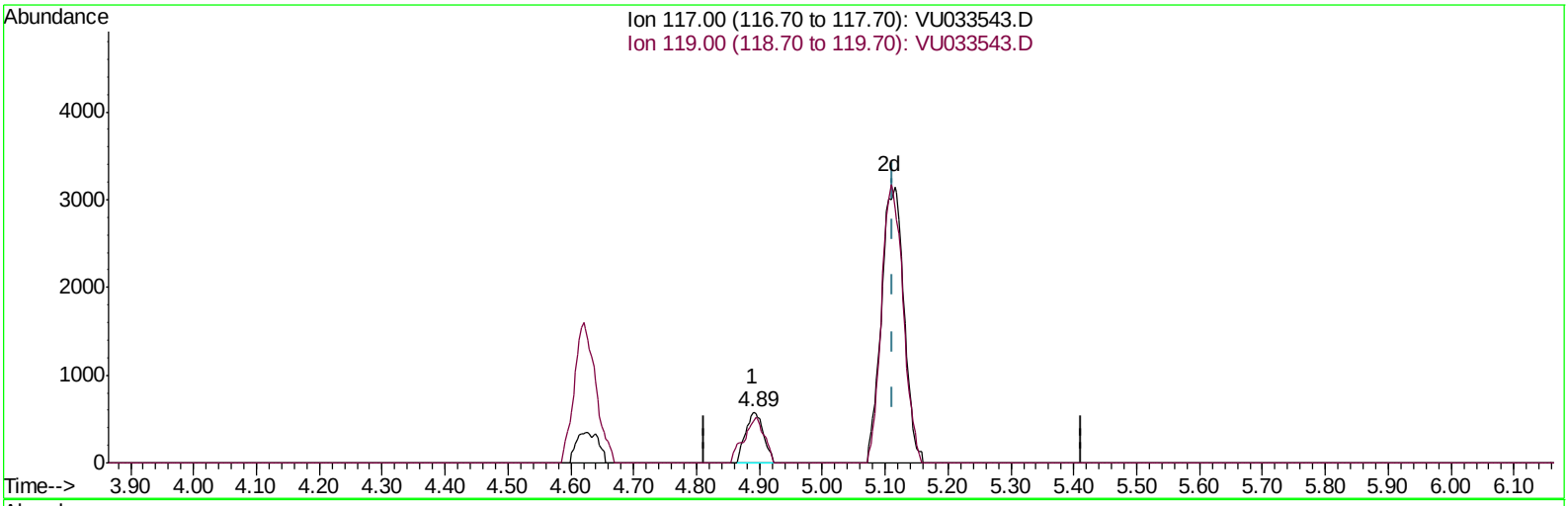
Quantitation Report (Qedit)

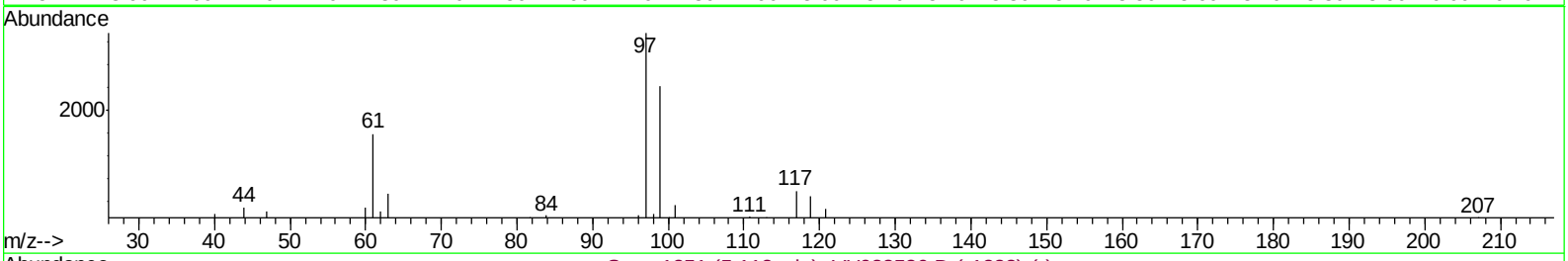
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

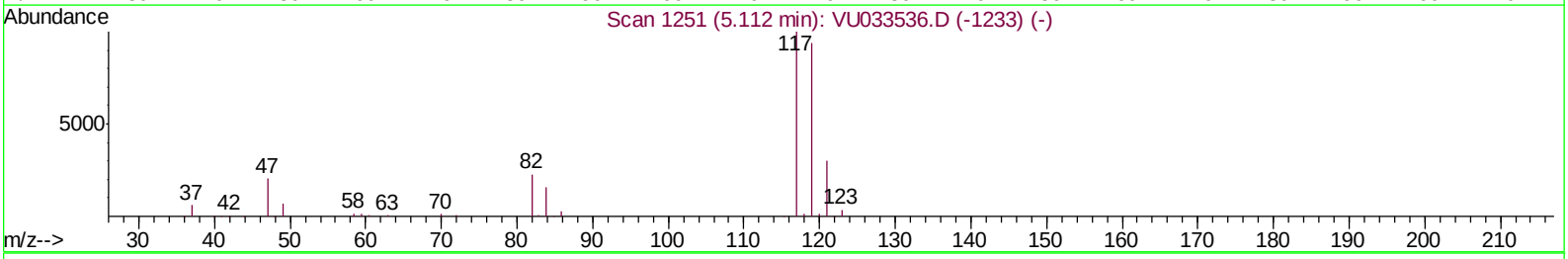
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(31) Carbon tetrachloride (T)

4.890min (-0.222) 0.38ug/L

response 1146

Ion	Exp%	Act%
117.00	100	100
119.00	96.20	82.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

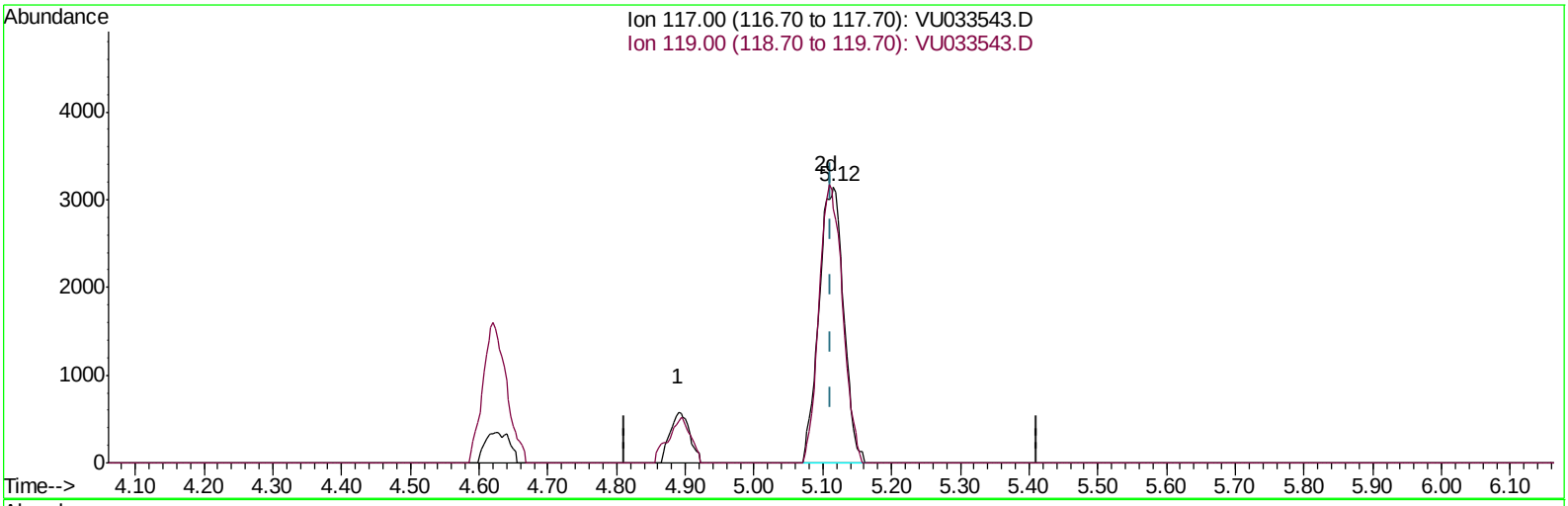
Quantitation Report (Qedit)

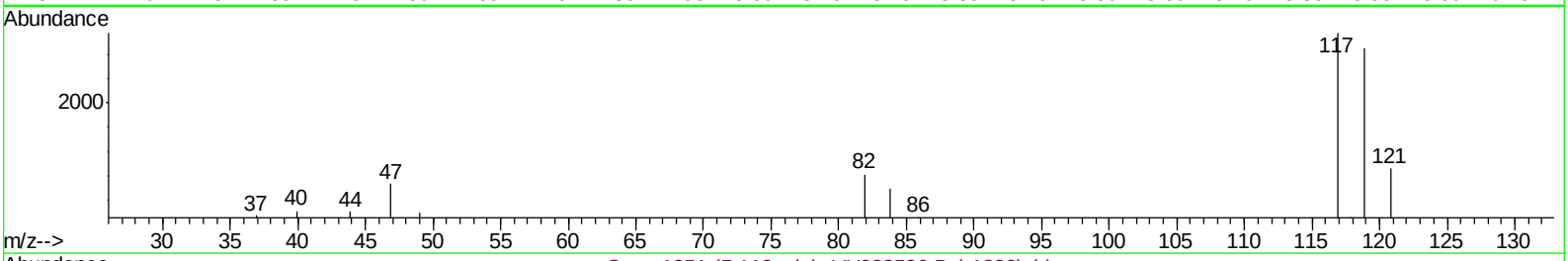
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

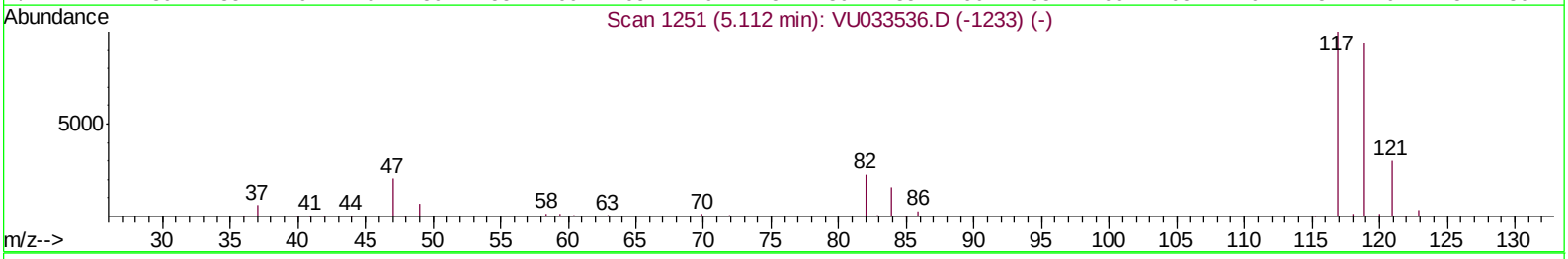
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(31) Carbon tetrachloride (T)

5.116min (+0.003) 2.59ug/L m

response 7832

Ion	Exp%	Act%
117.00	100	100
119.00	96.20	12.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

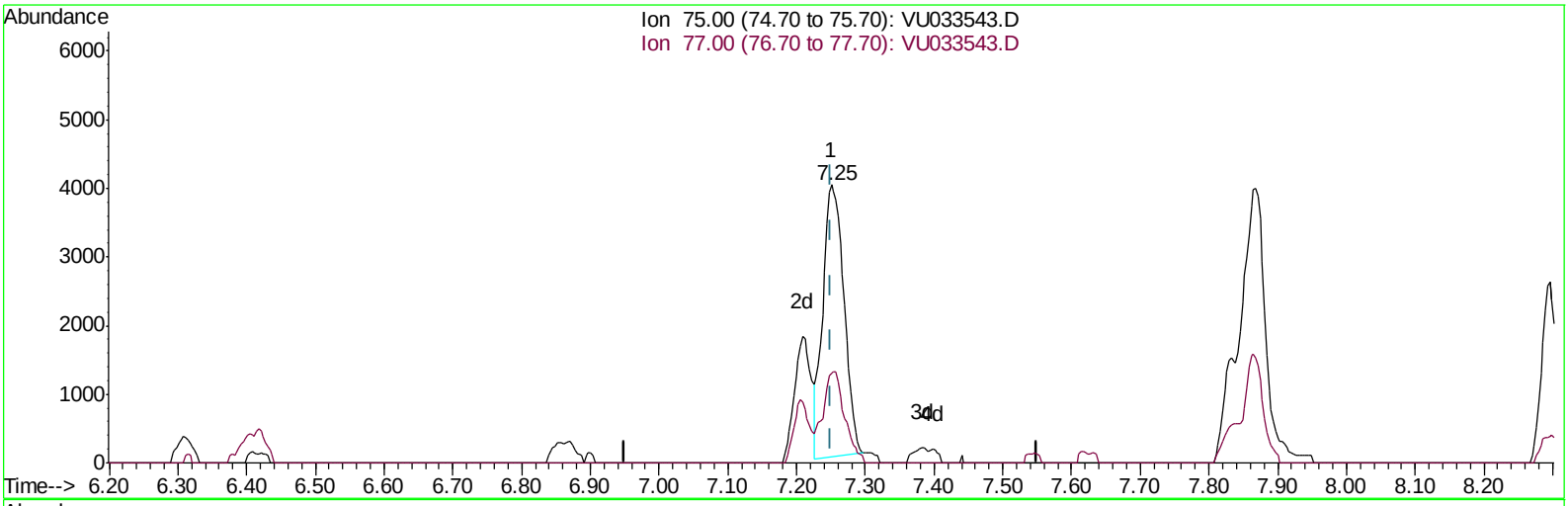
Quantitation Report (Qedit)

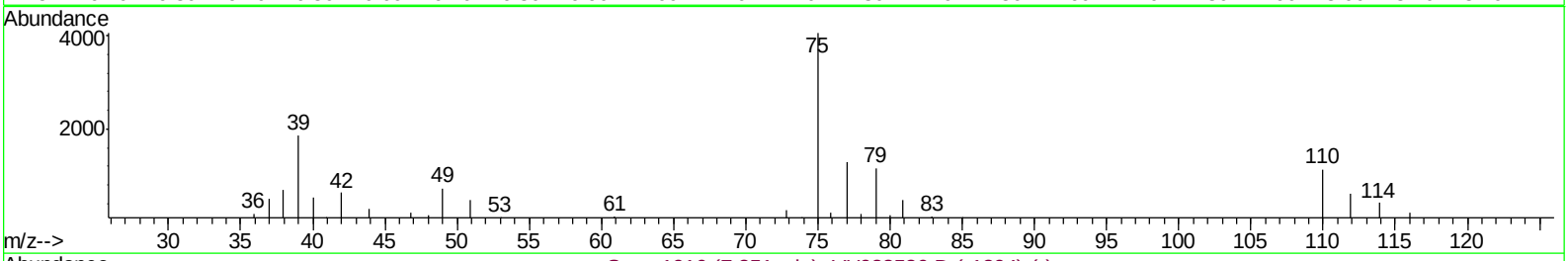
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

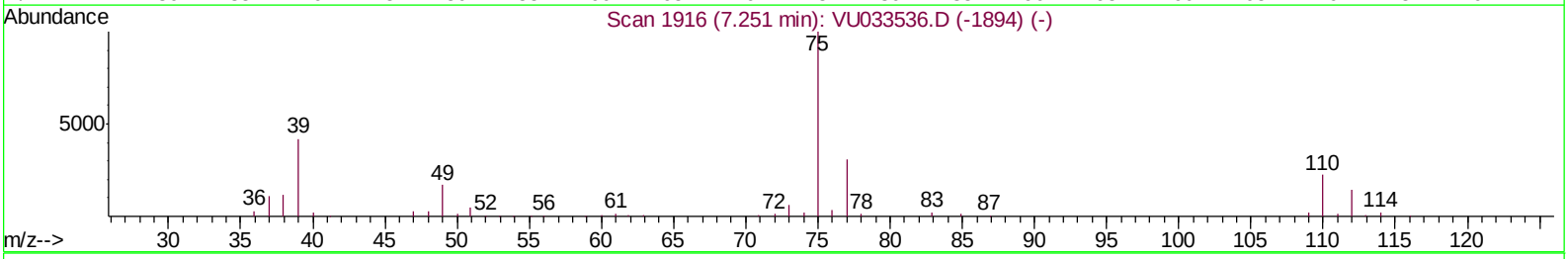
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(39) cis-1,3-Dichloropropene (T)

7.251min (-0.000) 2.34ug/L

response 8518

Ion	Exp%	Act%
75.00	100	100
77.00	31.90	32.17
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

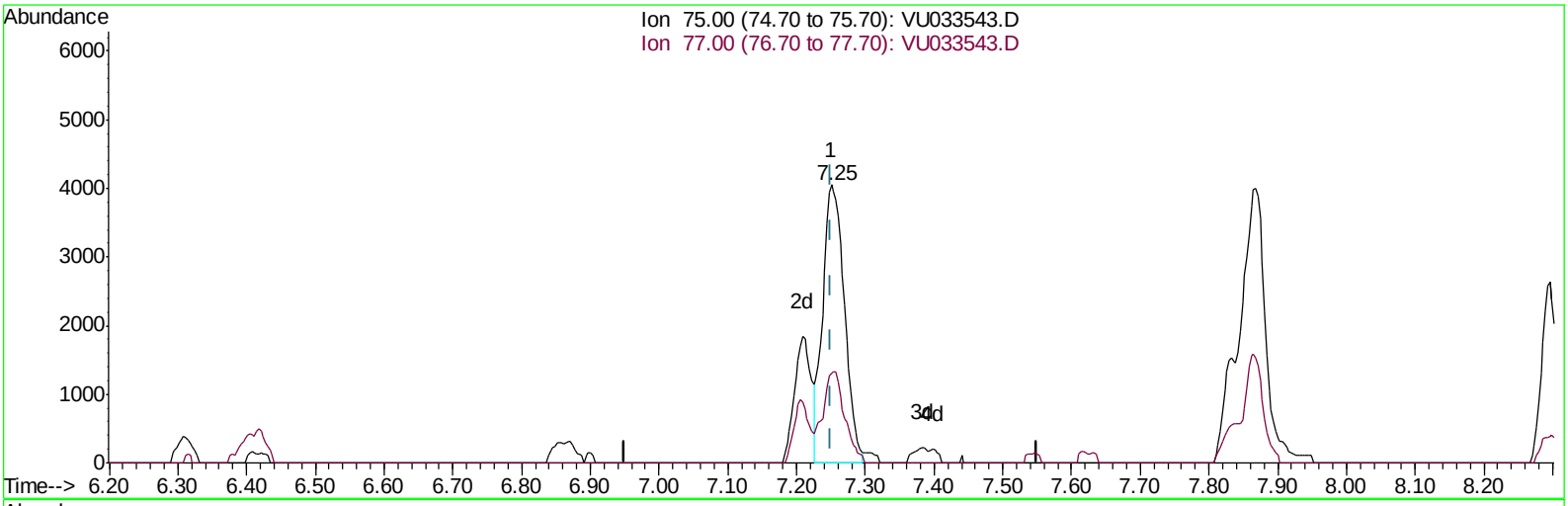
Quantitation Report (Qedit)

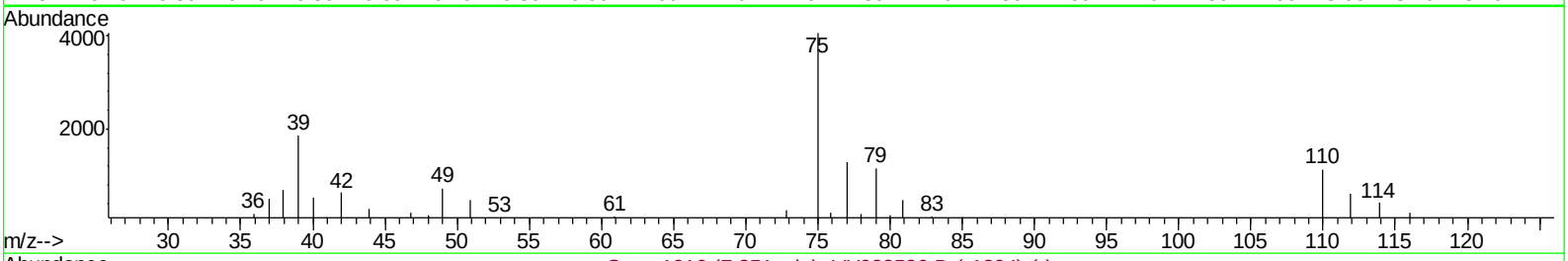
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

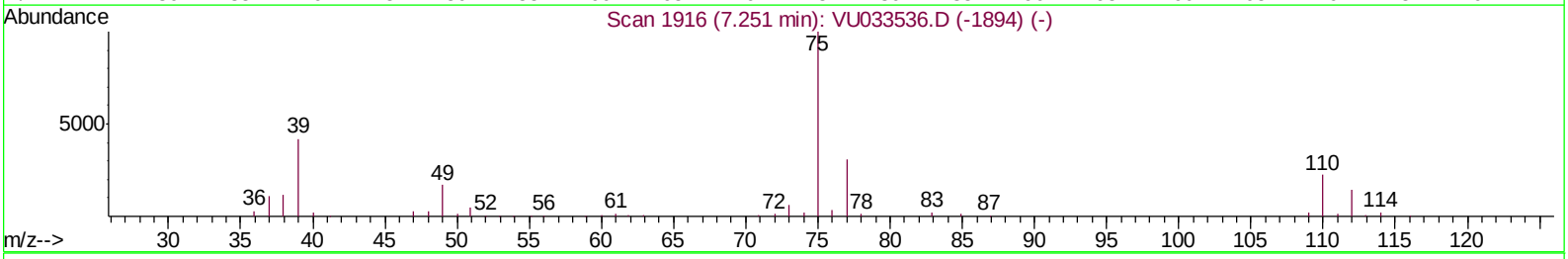
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(39) cis-1,3-Dichloropropene (T)

7.251min (-0.000) 2.46ug/L m

response 8959

Ion	Exp%	Act%
75.00	100	100
77.00	31.90	32.17
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

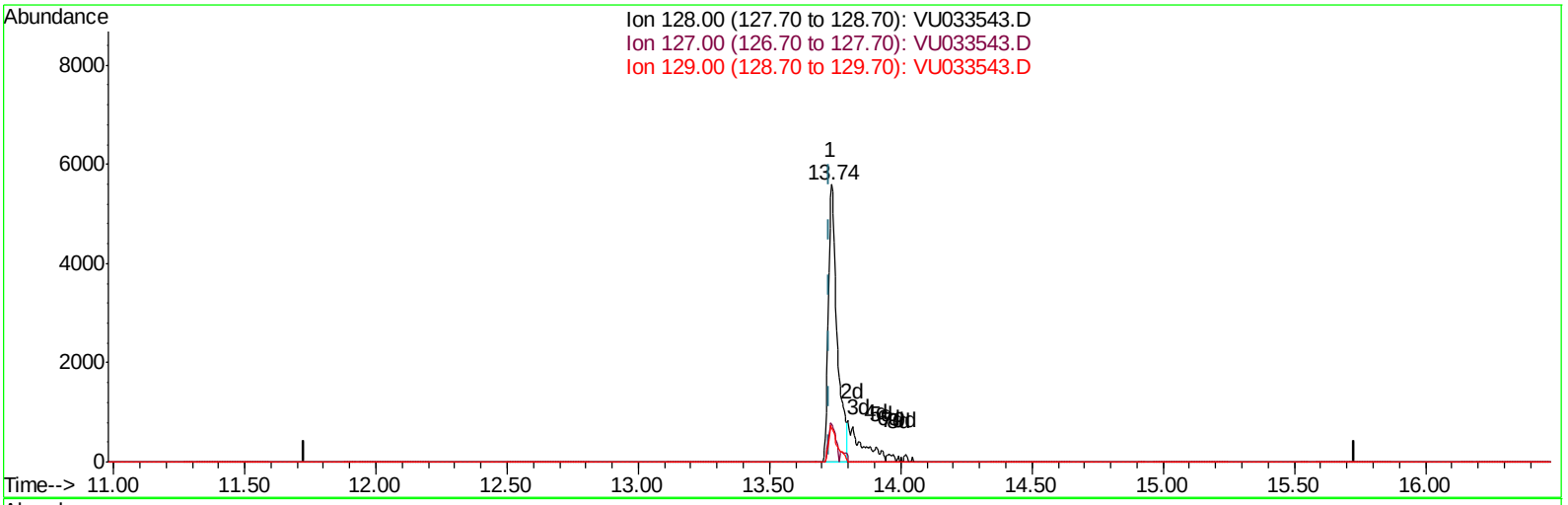
Quantitation Report (Qedit)

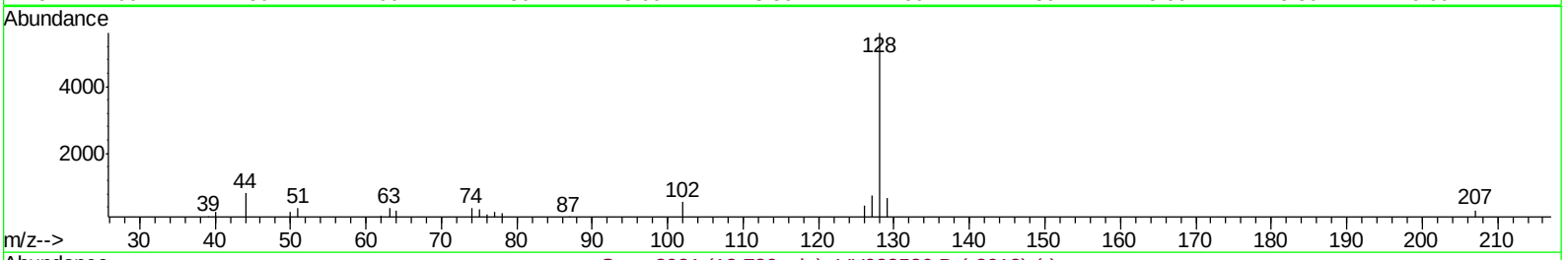
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

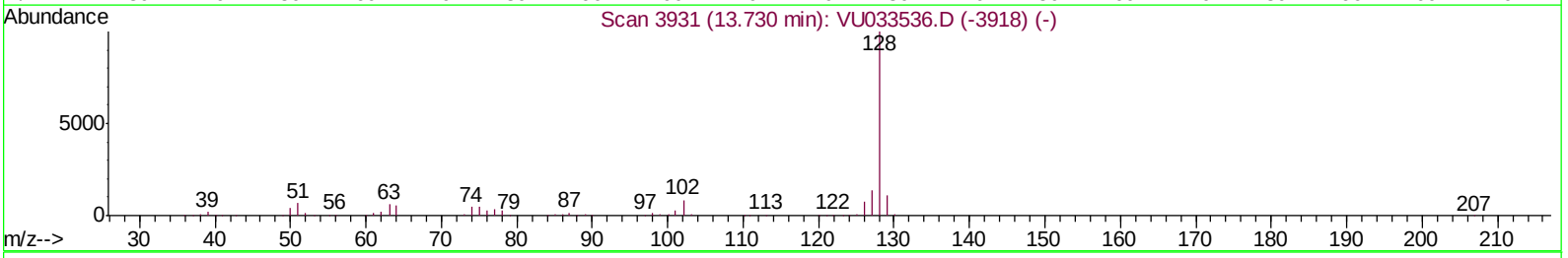
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(69) Naphthalene

13.736min (+0.006) 1.43ug/L

response 12746

Ion	Exp%	Act%
128.00	100	100
127.00	13.50	11.60
129.00	10.90	11.31
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

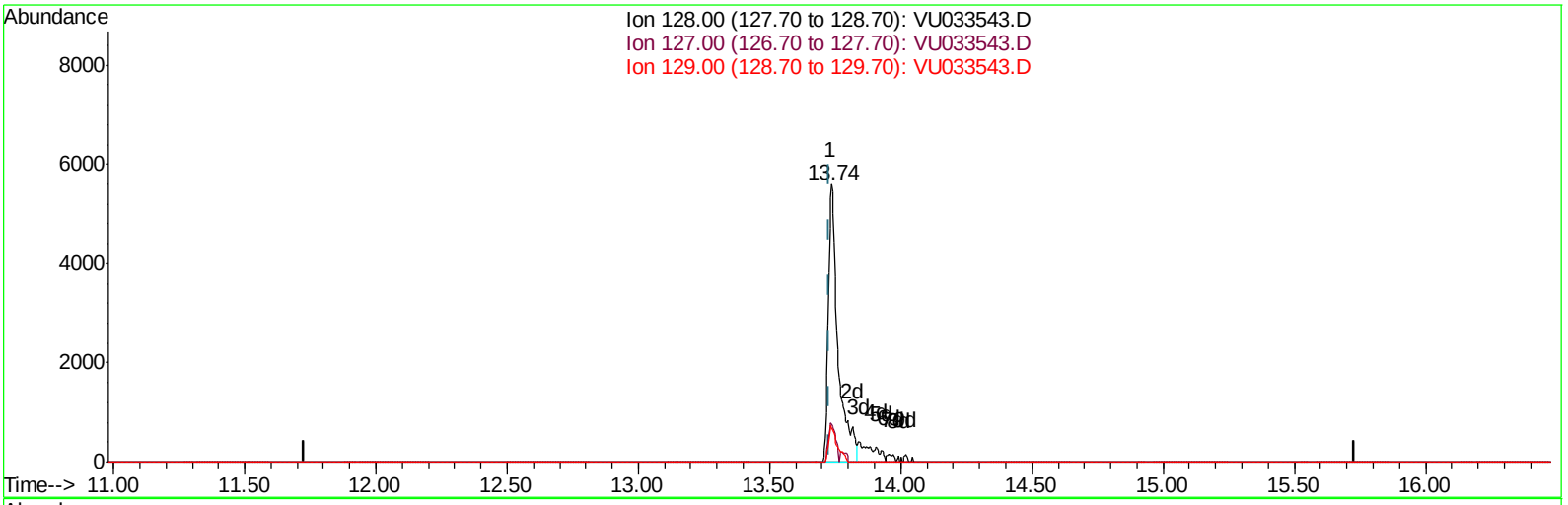
Quantitation Report (Qedit)

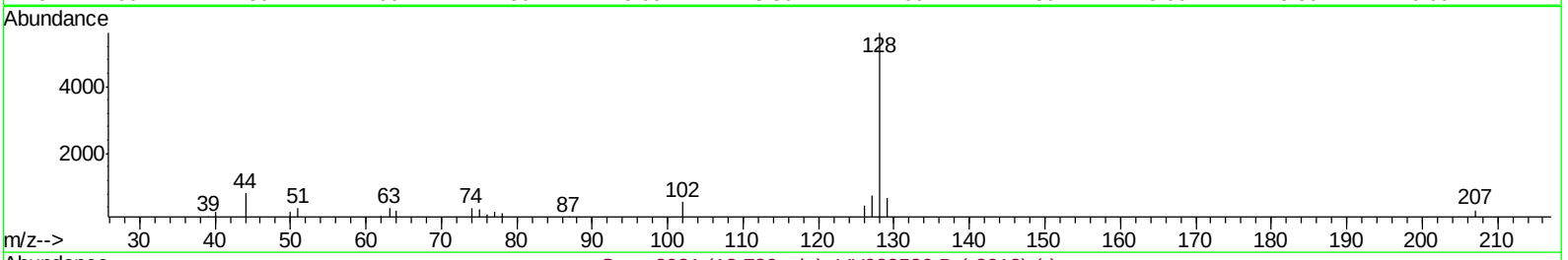
Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

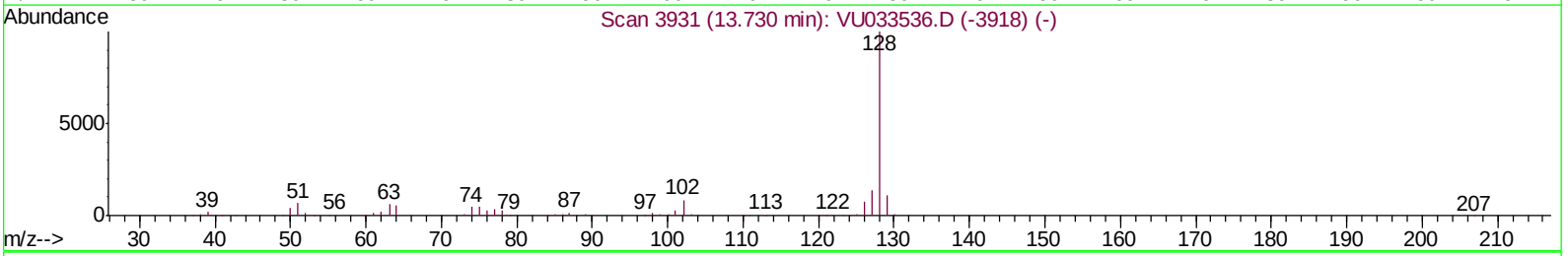
Quant Time: Aug 02 01:54:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM







TIC: VU033543.D

(69) Naphthalene

13.736min (+0.006) 1.58ug/L m

response 14119

Ion	Exp%	Act%
128.00	100	100
127.00	13.50	10.47#
129.00	10.90	10.21
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

Quantitation Report (QT Reviewed)

Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM

Quant Time: Aug 02 02:25:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	300883	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	301654	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	147064	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.39	65	99457	45.46	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 90.92%			
7) Chloroethane-d5	1.67	69	89652	47.77	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.54%			
11) 1,1-Dichloroethene-d2	2.26	63	138336	34.84	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 69.68%			
21) 2-Butanone-d5	4.15	46	168060	115.99	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 115.99%			
24) Chloroform-d	4.62	84	188969	51.53	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 103.06%			
26) 1,2-Dichloroethane-d4	5.28	65	124662	53.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 107.36%			
32) Benzene-d6	5.32	84	383188	51.24	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 102.48%			
36) 1,2-Dichloropropane-d6	6.31	67	124589	53.15	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 106.30%			
41) Toluene-d8	7.55	98	343995	49.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.18%			
43) trans-1,3-Dichloropropene-	7.83	79	55943	48.11	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 96.22%			
47) 2-Hexanone-d5	8.29	63	117766	105.81	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 105.81%			
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187890	51.98	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 103.96%			
64) 1,2-Dichlorobenzene-d4	11.85	152	142959	53.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	7275	2.564	ug/L	98
3) Chloromethane	1.32	50	8230	2.880	ug/L	97
5) Vinyl chloride	1.39	62	8529	2.784	ug/L #	71
6) Bromomethane	1.62	94	5618	2.078	ug/L	96
8) Chloroethane	1.69	64	5350	2.874	ug/L	90
9) Trichlorofluoromethane	1.87	101	10988	2.742	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6490	3.194	ug/L #	86
12) 1,1-Dichloroethene	2.27	96	6014	3.087	ug/L #	1
13) Acetone	2.31	43	7839	5.288	ug/L	99
14) Carbon disulfide	2.46	76	15363	2.514	ug/L	97
15) Methyl Acetate	2.60	43	6313	2.675	ug/L	99
16) Methylene chloride	2.68	84	6645	2.986	ug/L	85
17) trans-1,2-Dichloroethene	2.96	96	5306	2.599	ug/L	96
18) Methyl tert-butyl Ether	2.98	73	15925	2.558	ug/L	99
19) 1,1-Dichloroethane	3.42	63	10291	2.686	ug/L	94
20) cis-1,2-Dichloroethene	4.21	96	6482	2.829	ug/L	89
22) 2-Butanone	4.26	43	8753m	4.946	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080119\

Quantitation Report (QT Reviewed)

Data File : VU033543.D
Acq On : 01 Aug 2019 12:03
Operator : JC/SP
Sample : MDL06
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM

Quant Time: Aug 02 02:25:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 01:49:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Bromochloromethane	4.53	128	3108	2.600	ug/L		96
25) Chloroform	4.65	83	14451	3.584	ug/L		99
27) 1,2-Dichloroethane	5.39	62	8783	2.829	ug/L		97
29) Cyclohexane	4.97	56	7576	2.302	ug/L	#	91
30) 1,1,1-Trichloroethane	4.88	97	8882m	2.559	ug/L		
31) Carbon tetrachloride	5.12	117	7832m	2.591	ug/L		
33) Benzene	5.37	78	22991	2.642	ug/L		100
34) Trichloroethene	6.17	95	6423	2.798	ug/L		90
35) Methylcyclohexane	6.39	83	8242	2.301	ug/L		98
37) 1,2-Dichloropropane	6.41	63	6523	2.800	ug/L	#	95
38) Bromodichloromethane	6.74	83	7987	2.652	ug/L		99
39) cis-1,3-Dichloropropene	7.25	75	8959m	2.464	ug/L		
40) 4-Methyl-2-pentanone	7.44	43	15609	4.853	ug/L		95
42) Toluene	7.62	91	25282	2.702	ug/L		99
44) trans-1,3-Dichloropropene	7.87	75	8525	2.595	ug/L		89
45) 1,1,2-Trichloroethane	8.05	97	5880	2.659	ug/L		96
46) Tetrachloroethene	8.21	164	4590	2.449	ug/L		95
48) 2-Hexanone	8.35	43	16400	6.309	ug/L	#	91
49) Dibromochloromethane	8.46	129	6822	2.712	ug/L		92
50) 1,2-Dibromoethane	8.57	107	6340	2.588	ug/L	#	93
51) Chlorobenzene	9.10	112	15679	2.559	ug/L		98
52) Ethylbenzene	9.23	91	23261	2.309	ug/L		97
53) m,p-Xylene	9.36	106	8720	2.254	ug/L		97
54) o-xylene	9.76	106	8637	2.302	ug/L		91
55) Styrene	9.78	104	12986	2.038	ug/L		97
56) Isopropylbenzene	10.15	105	21267	2.169	ug/L		98
58) 1,1,2,2-Tetrachloroethane	10.44	83	11599	2.908	ug/L	#	96
59) 1,2,3-Trichloropropane	10.48	75	8561	2.784	ug/L		100
61) Bromoform	9.94	173	4816	2.711	ug/L	#	98
62) 1,3-Dichlorobenzene	11.40	146	11445	2.534	ug/L		99
63) 1,4-Dichlorobenzene	11.49	146	12984	2.767	ug/L		99
65) 1,2-Dichlorobenzene	11.86	146	12739	2.790	ug/L		93
66) 1,2-Dibromo-3-chloropropan	12.64	75	2064	2.446	ug/L		90
67) 1,3,5-Trichlorobenzene	12.88	180	8176	2.244	ug/L		98
68) 1,2,4-trichlorobenzene	13.50	180	6139	1.972	ug/L		96
69) Naphthalene	13.74	128	14119m	1.581	ug/L		
70) 1,2,3-Trichlorobenzene	13.98	180	6491	1.982	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations APPROVED
MMDadoda
8/2/2019 8:29:33 AM