

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010719\
 Data File : VW008069.D
 Acq On : 07 Jan 2019 15:02
 Operator : SY/AP
 Sample : K1012-05RE
 Misc : 8.95G/5ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-02-010419-C

Quant Time: Jan 08 03:44:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010219S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 03 05:03:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	65383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	110249	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	77554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	25488	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	40424	55.90	ug/l	0.00
Spiked Amount			Recovery	=	111.80%	
35) Dibromofluoromethane	7.88	113	34900	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
50) Toluene-d8	10.32	98	118382	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	
62) 4-Bromofluorobenzene	12.62	95	35898	35.90	ug/l	0.00
Spiked Amount			Recovery	=	71.80%	

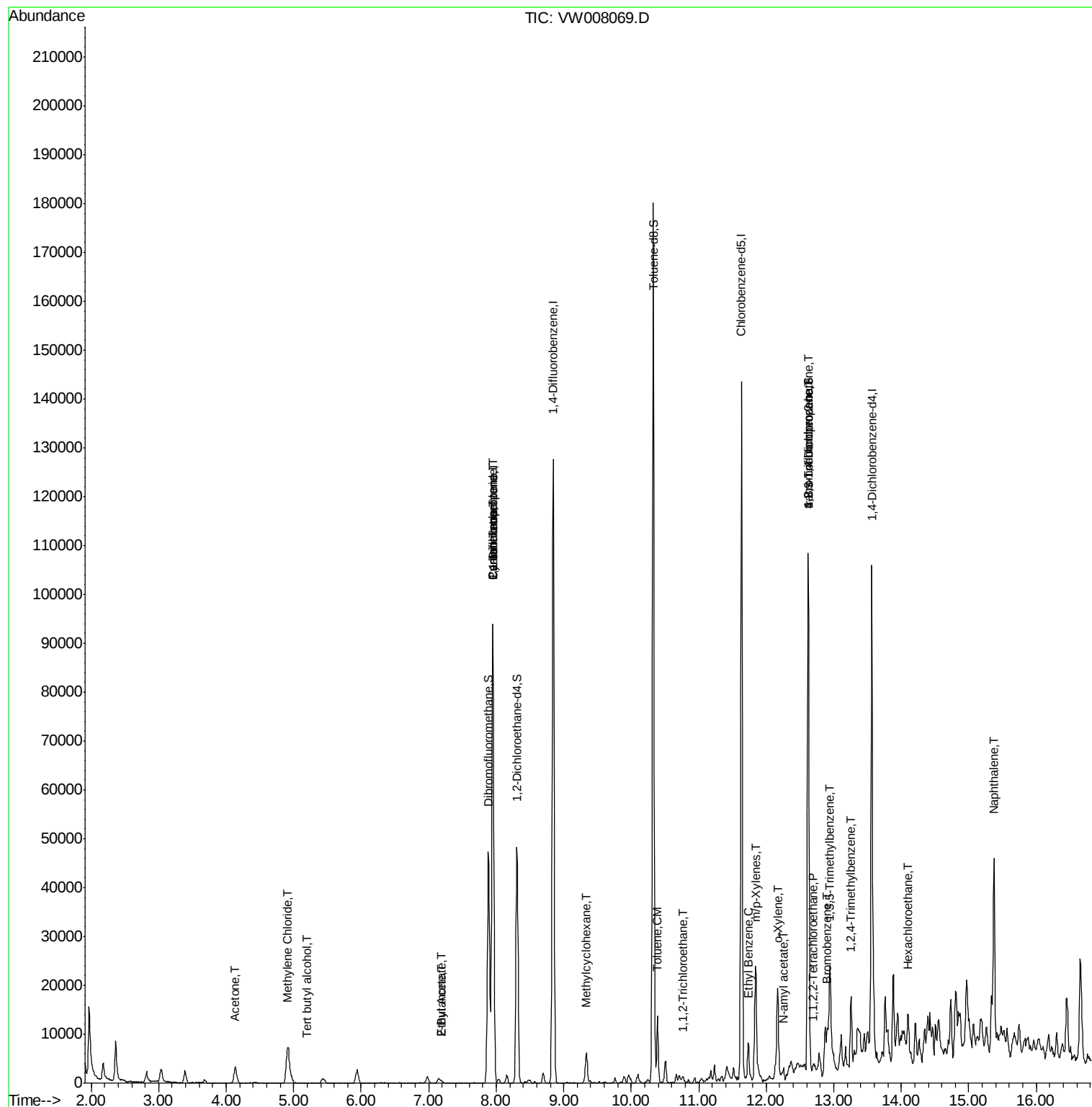
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	81	1.724	ug/l #	71
16) Acetone	4.14	43	6345	56.680	ug/l	98
20) Methylene Chloride	4.91	84	6013	6.649	ug/l #	96
25) 2-Butanone	7.18	43	678	5.140	ug/l	90
31) Cyclohexane	7.95	56	2673	2.418	ug/l #	47
36) 1,1-Dichloropropene	7.95	75	5202	4.783	ug/l #	51
37) Ethyl Acetate	7.18	43	678	2.075	ug/l #	67
38) Carbon Tetrachloride	7.95	117	7443	5.711	ug/l #	15
39) Methylcyclohexane	9.34	83	2661	1.963	ug/l	92
52) Toluene	10.39	92	5521	2.915	ug/l	91
55) 1,1,2-Trichloroethane	10.76	97	498	1.013	ug/l #	17
67) Ethyl Benzene	11.73	91	5354	1.820	ug/l	98
68) m/p-Xylenes	11.84	106	5891	5.179	ug/l	95
69) o-Xylene	12.17	106	4504	4.256	ug/l	94
74) N-amyl acetate	12.26	43	476	1.509	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.69	83	538	2.086	ug/l #	37
76) 1,2,3-Trichloropropane	12.62	75	18112	89.323	ug/l #	1
77) Bromobenzene	12.91	156	2320	5.326	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	5777	3.311	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	18112	211.235	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	8119	4.595	ug/l	94
90) Hexachloroethane	14.10	117	589	1.792	ug/l #	12
95) Naphthalene	15.38	128	35458	38.378	ug/l	100

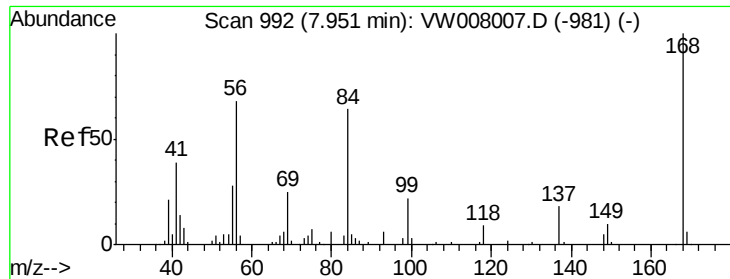
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 03 05:03:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

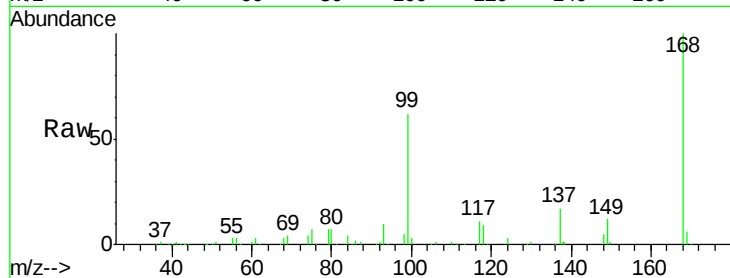
EO-02-010419-C

Tot Ion:168 Resp: 65383

Ion Ratio Lower Upper

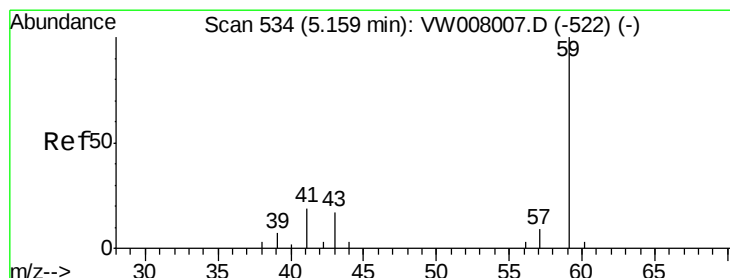
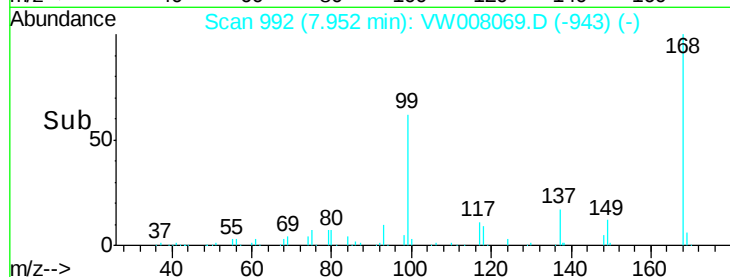
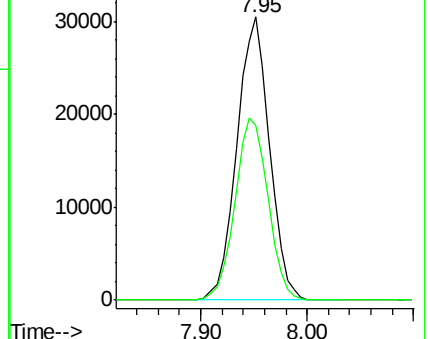
168 100

99 61.5 51.6 77.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.724 ug/l

RT: 5.20 min Scan# 540

Delta R.T. 0.04 min

Lab File: VW008069.D

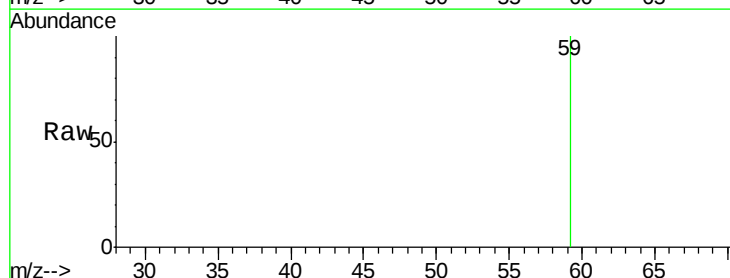
Acq: 07 Jan 2019 15:02

Tgt Ion: 59 Resp: 81

Ion Ratio Lower Upper

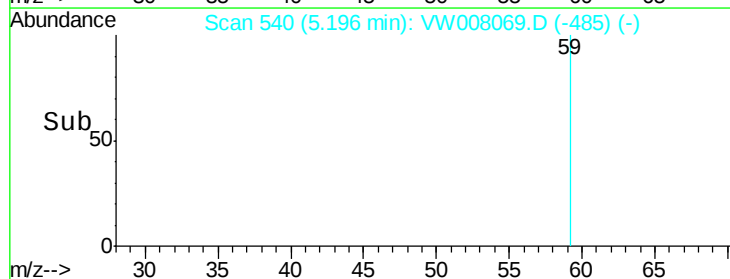
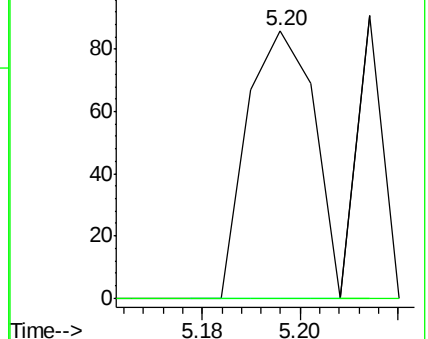
59 100

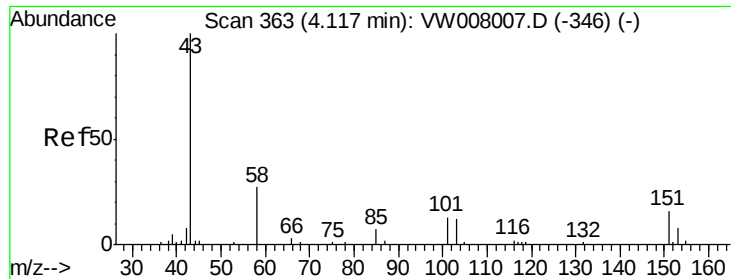
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 56.680 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

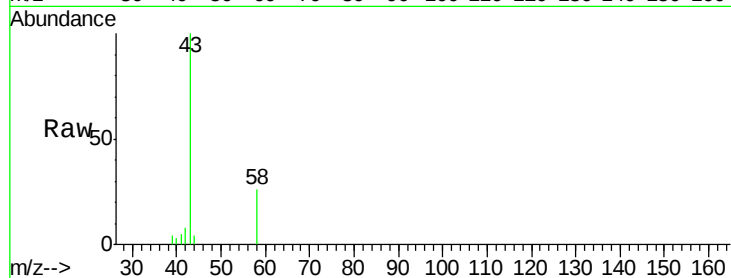
EO-02-010419-C

Tot Ion: 43 Resp: 6345

Ion Ratio Lower Upper

43 100

58 26.1 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

2500

2000

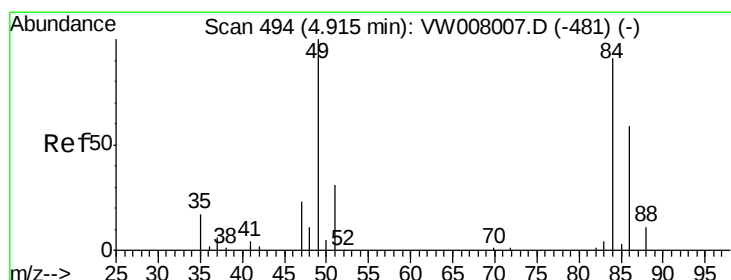
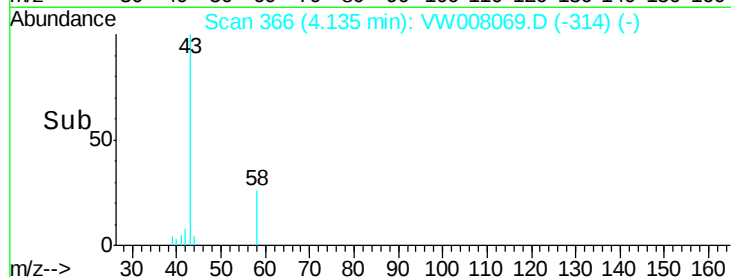
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 6.649 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Tgt Ion: 84 Resp: 6013

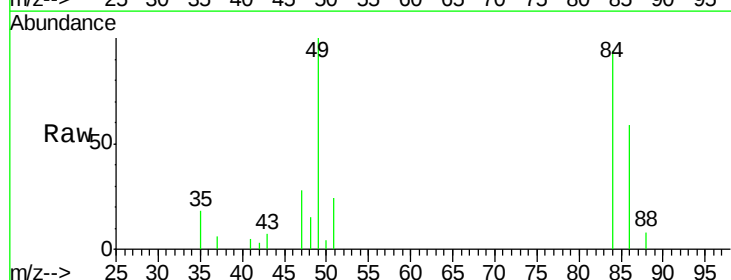
Ion Ratio Lower Upper

84 100

49 106.8 87.7 131.5

51 25.8 27.3 40.9#

86 63.0 51.4 77.0



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

4.91

3000

2500

2000

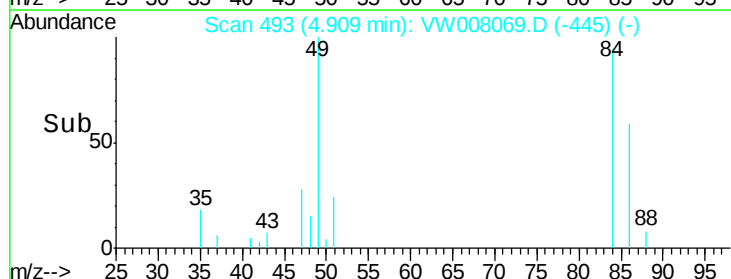
1500

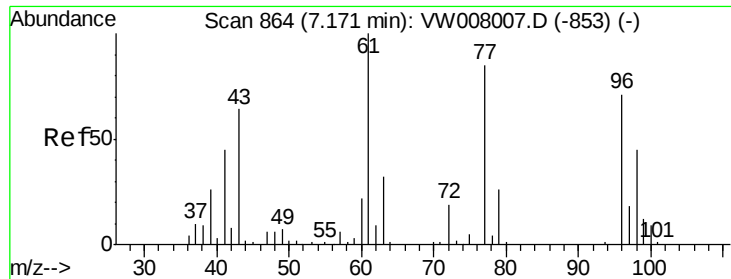
1000

500

0

Time-->

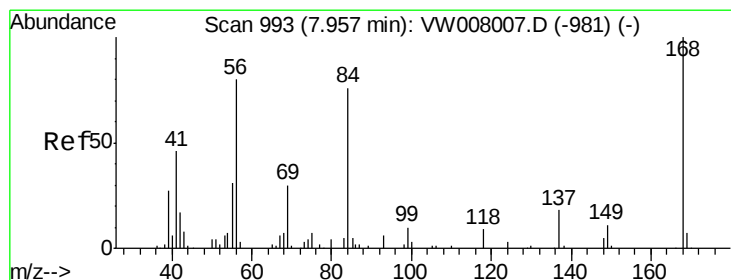
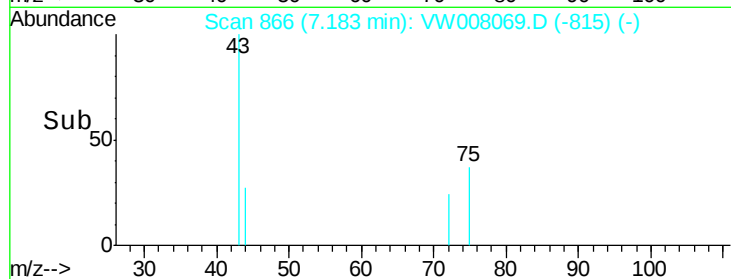
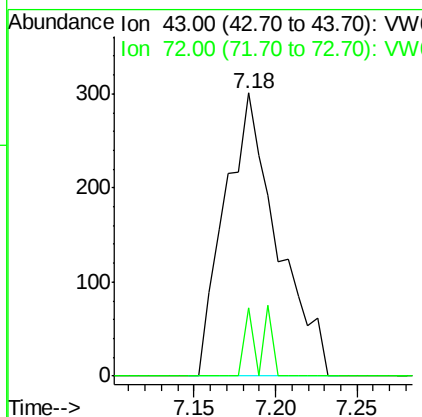
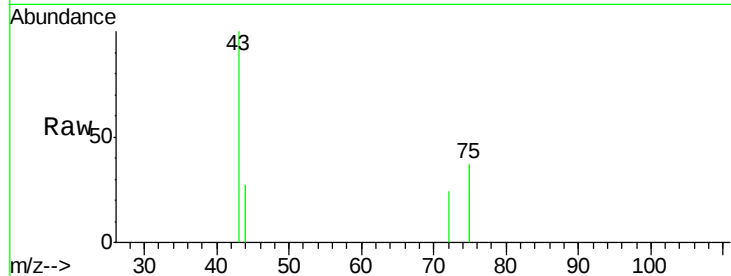




#25
2-Butanone
Concen: 5.140 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

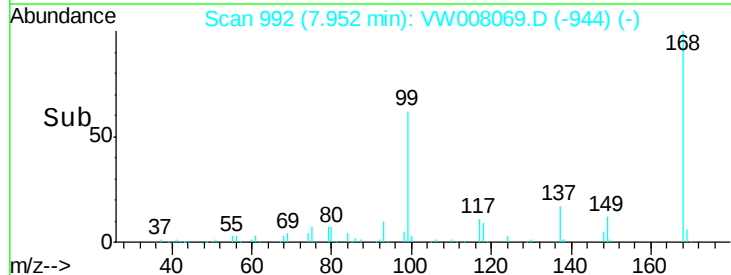
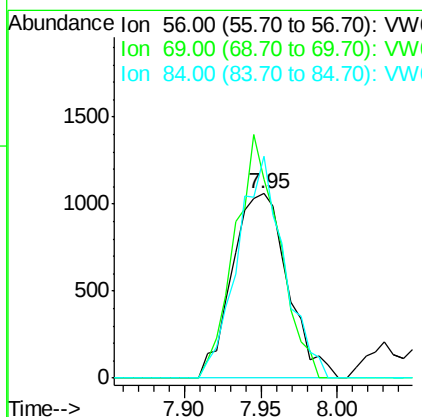
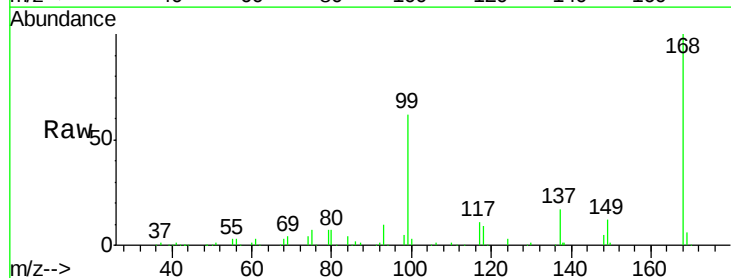
Instrument :
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EO-02-010419-C

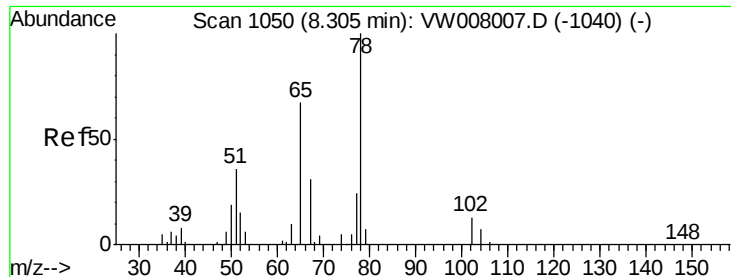
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
72 24.3 23.8 35.8



#31
Cyclohexane
Concen: 2.418 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Tgt Ion: 56 Resp: 2673
Ion Ratio Lower Upper
56 100
69 107.4 29.8 44.6#
84 120.3 75.2 112.8#





#33

1,2-Dichloroethane-d4

Concen: 55.898 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

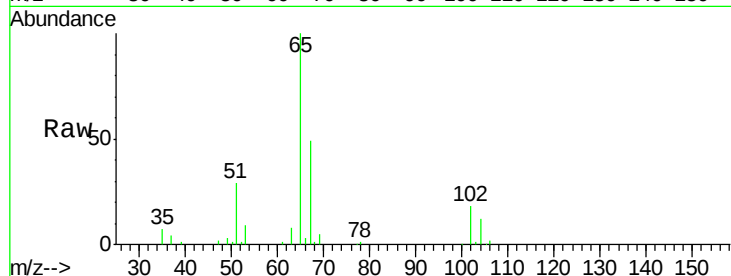
EO-02-010419-C

Tot Ion: 65 Resp: 40424

Ion Ratio Lower Upper

65 100

67 48.7 0.0 94.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

20000

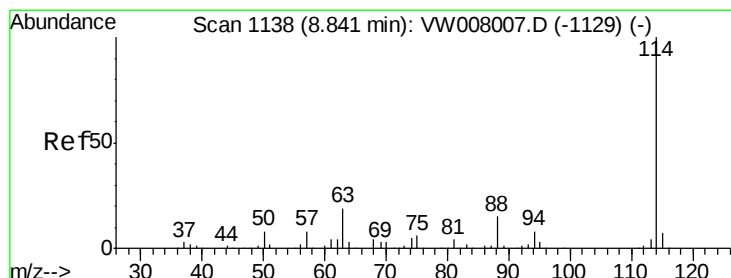
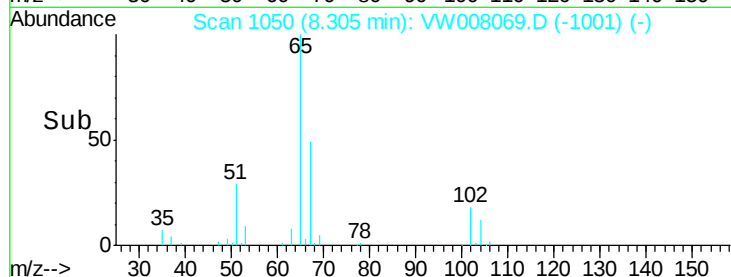
15000

10000

5000

0

Time--> 8.20 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

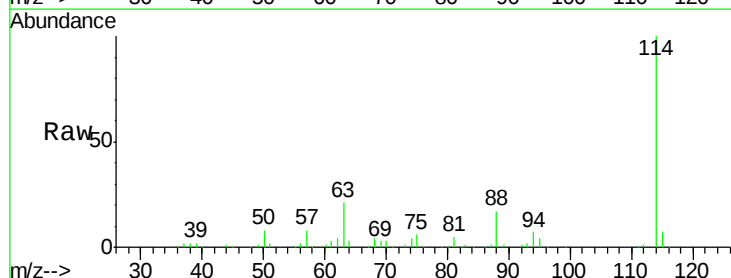
Tgt Ion: 114 Resp: 110249

Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.8

88 17.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

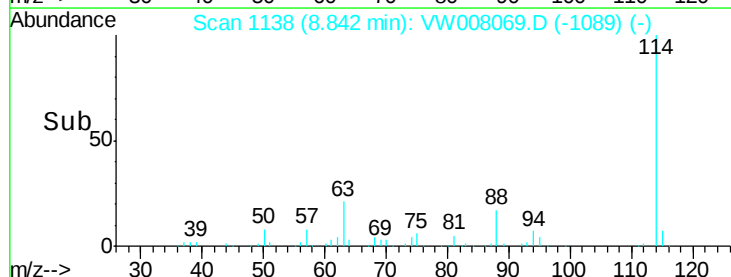
60000

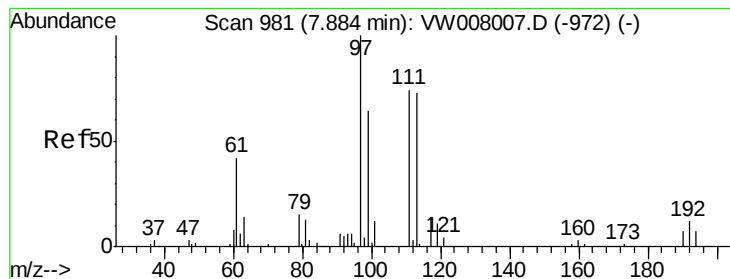
40000

20000

0

Time--> 8.75 8.80 8.85 8.90 8.95





#35

Dibromofluoromethane

Concen: 50.215 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

EO-02-010419-C

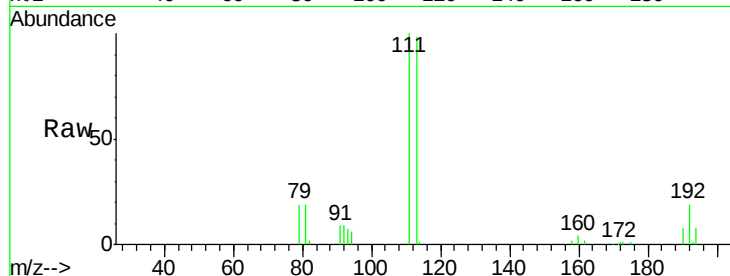
Tot Ion:113 Resp: 34900

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

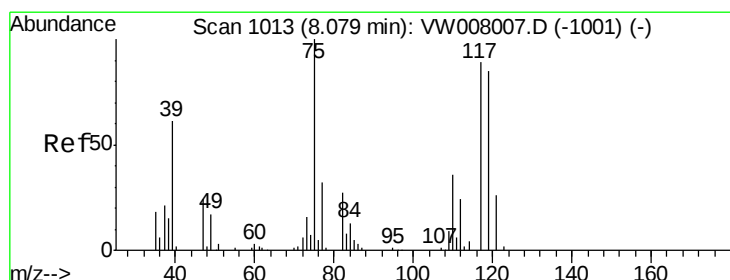
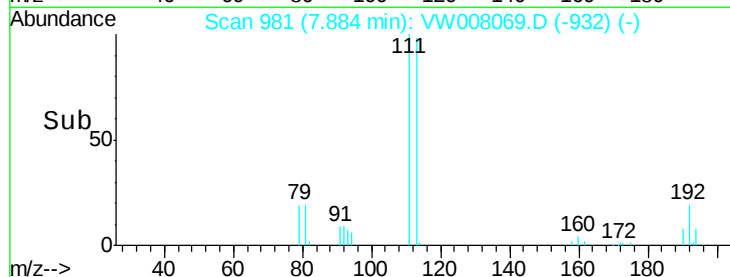
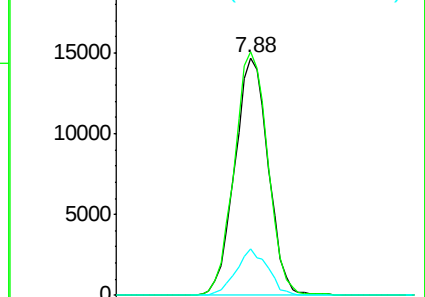
192 18.4 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

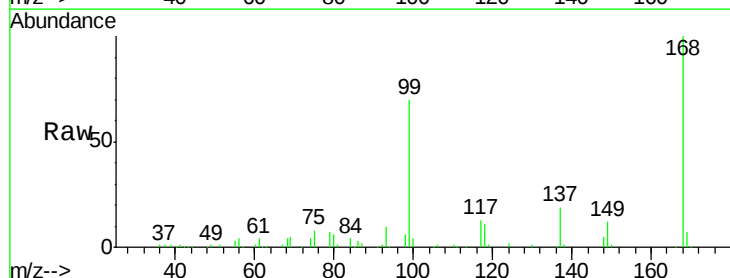
Tgt Ion: 75 Resp: 5202

Ion Ratio Lower Upper

75 100

110 11.7 18.1 54.3#

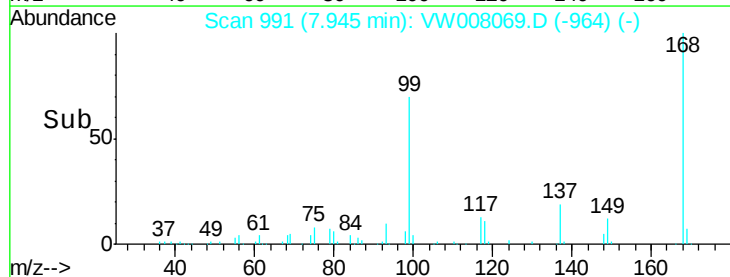
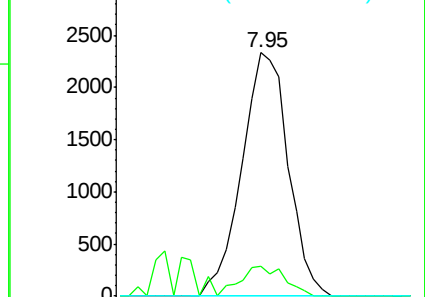
77 0.0 25.3 37.9#

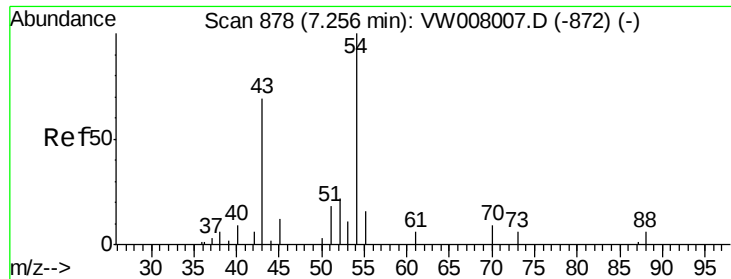


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

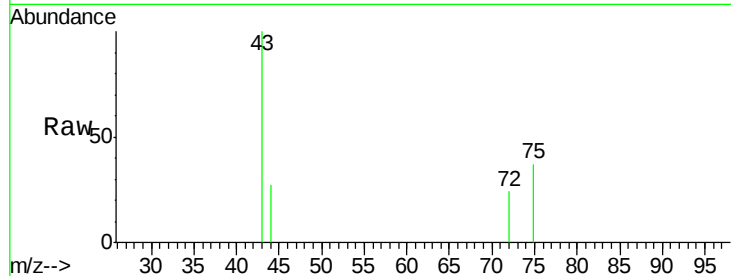




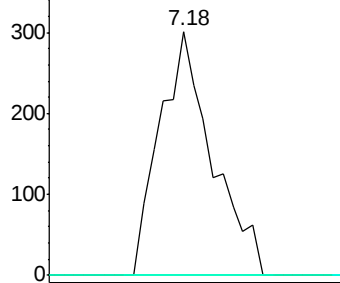
#37
Ethyl Acetate
Concen: 2.075 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Instrument :
MSVOA_W
ClientSampleId :
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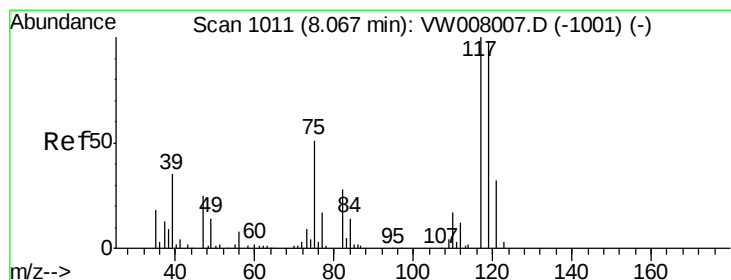
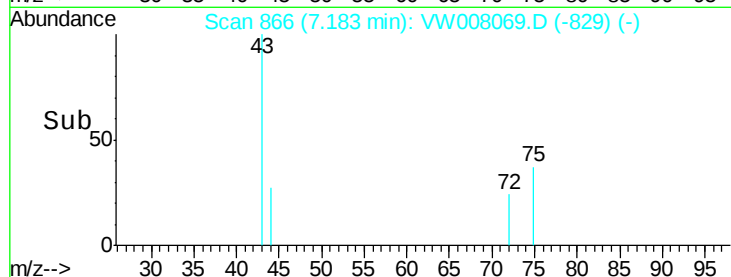
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

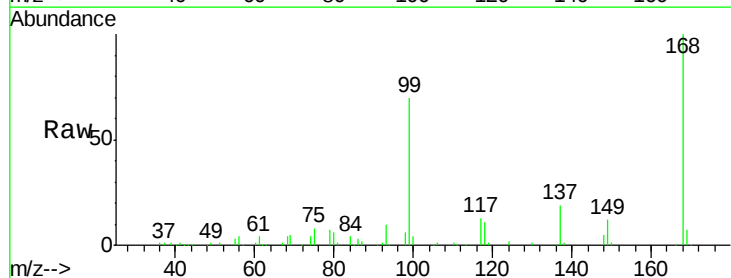


Time-->

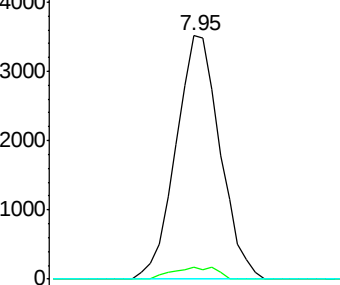


#38
Carbon Tetrachloride
Concen: 5.711 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

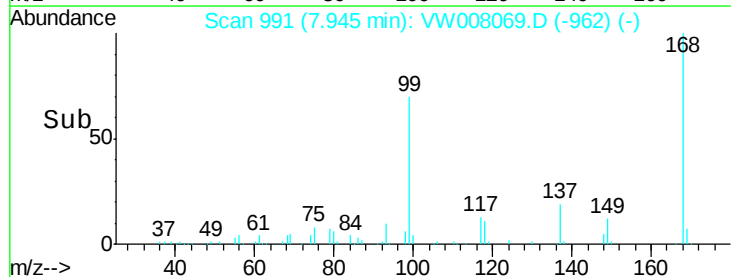
Tgt Ion: 117 Resp: 7443
Ion Ratio Lower Upper
117 100
119 4.8 78.7 118.1#
121 0.0 25.8 38.8#

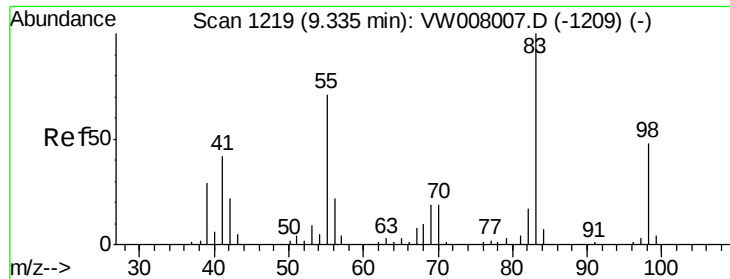


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



Time-->

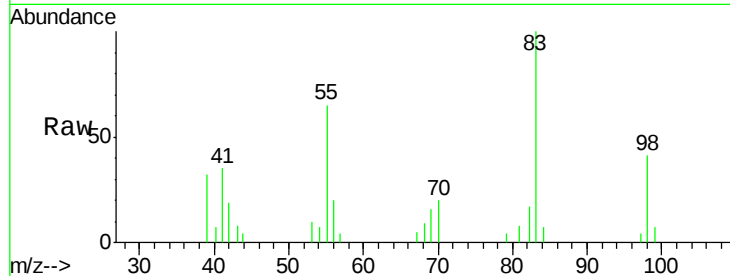




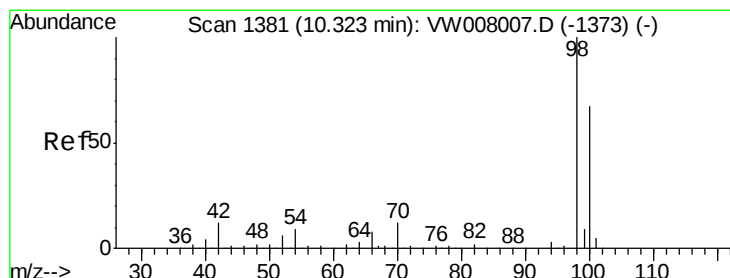
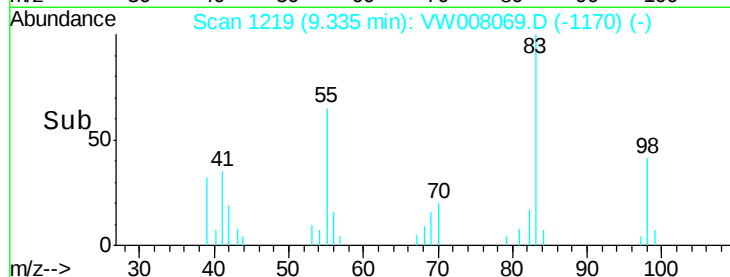
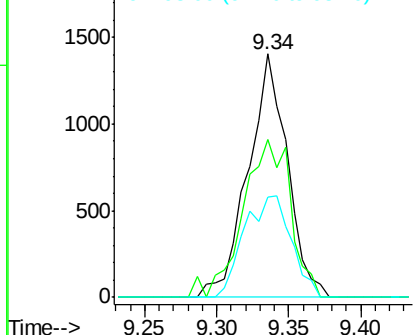
#39
Methylcyclohexane
Concen: 1.963 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Instrument :
MSVOA_W
ClientSampleId :
EO-02-010419-C

Tot Ion: 83 Resp: 2661
Ion Ratio Lower Upper
83 100
55 65.0 56.8 85.2
98 41.4 38.6 58.0

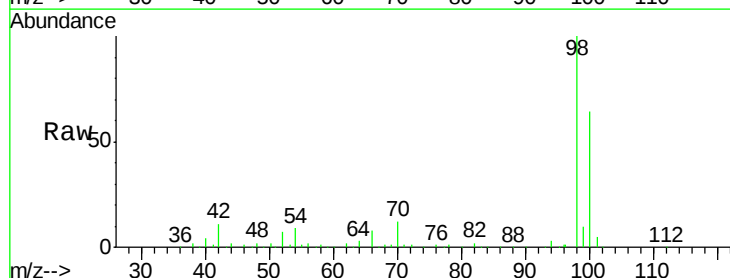


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

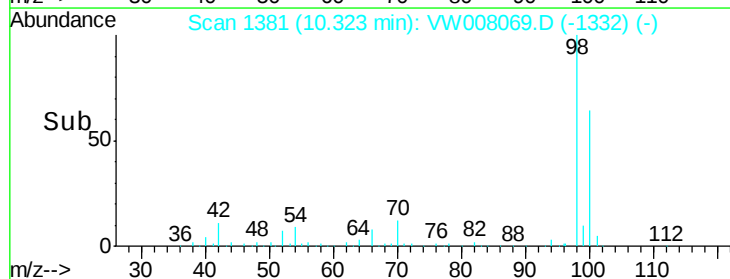
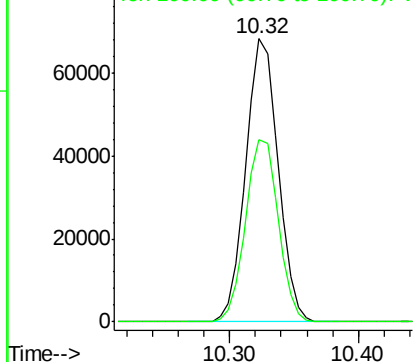


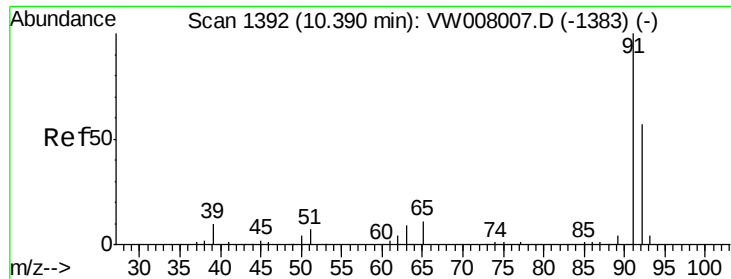
#50
Toluene-d8
Concen: 45.406 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Tgt Ion: 98 Resp: 118382
Ion Ratio Lower Upper
98 100
100 65.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 2.915 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

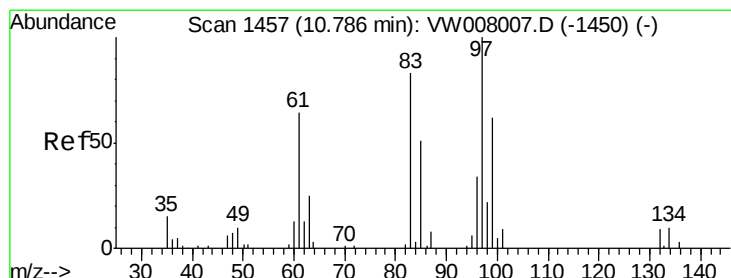
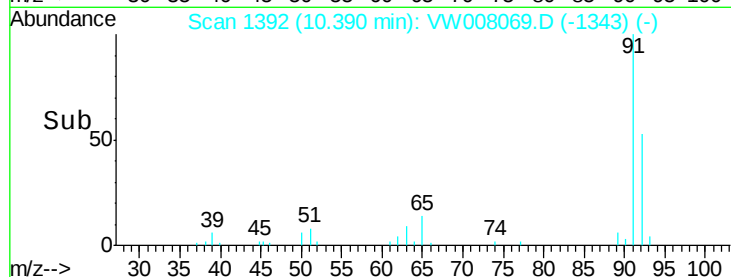
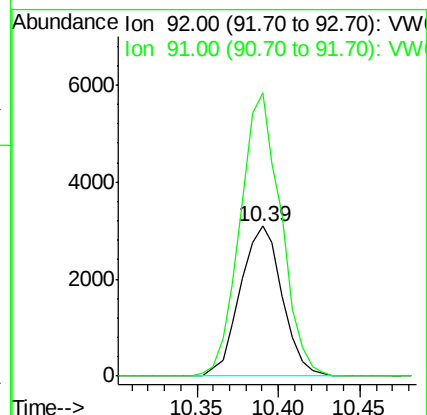
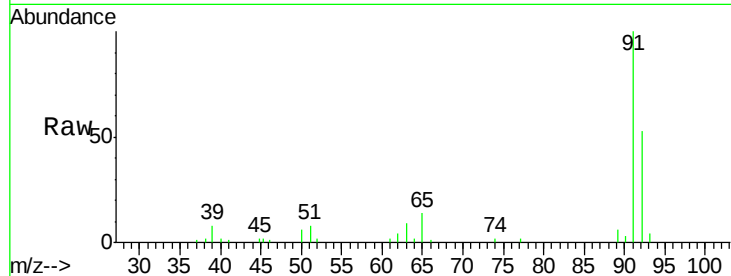
EO-02-010419-C

Tot Ion: 92 Resp: 5521

Ion Ratio Lower Upper

92 100

91 183.8 136.9 205.3



#55

1,1,2-Trichloroethane

Concen: 1.013 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Tgt Ion: 97 Resp: 498

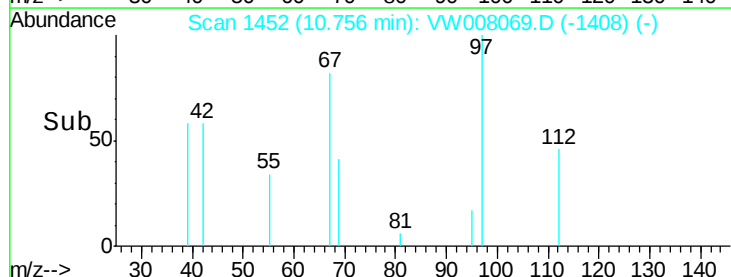
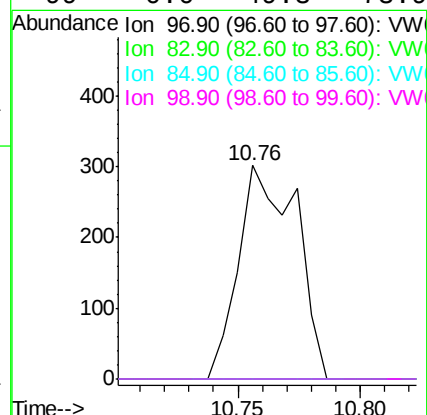
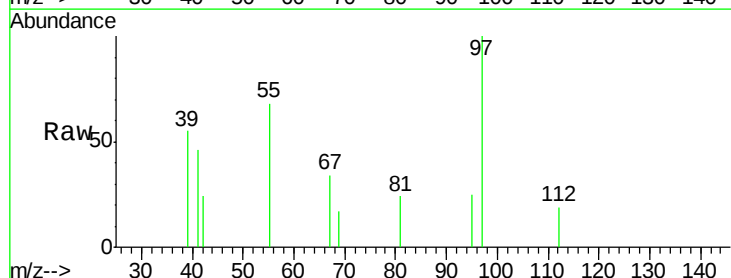
Ion Ratio Lower Upper

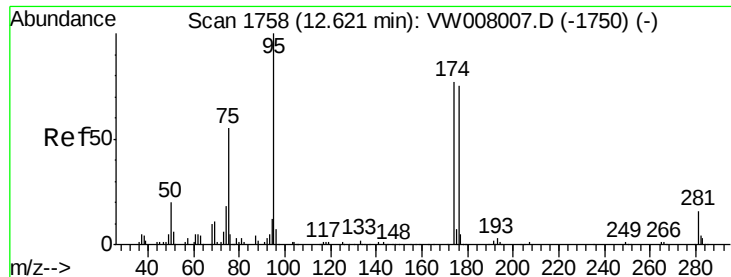
97 100

83 0.0 66.2 99.2#

85 0.0 41.0 61.4#

99 0.0 49.3 73.9#





#62

4-Bromofluorobenzene

Concen: 35.903 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

EO-02-010419-C

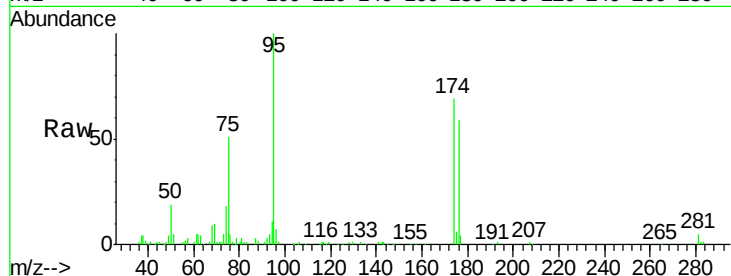
Tot Ion: 95 Resp: 35898

Ion Ratio Lower Upper

95 100

174 72.0 0.0 149.6

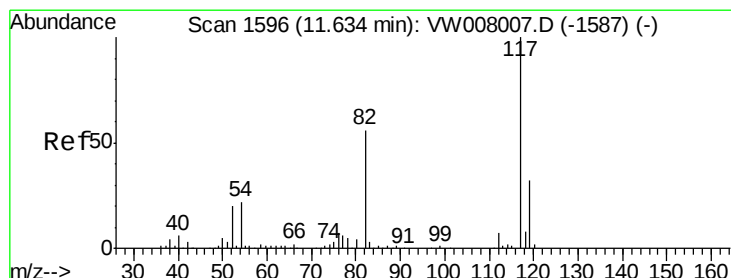
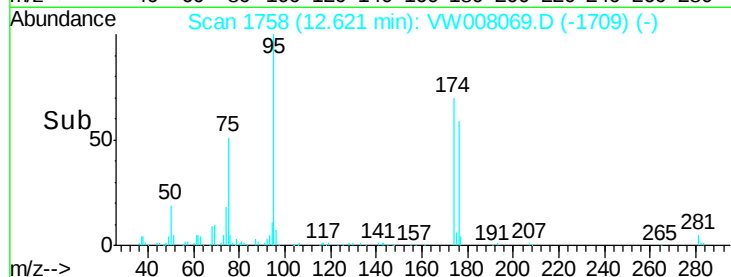
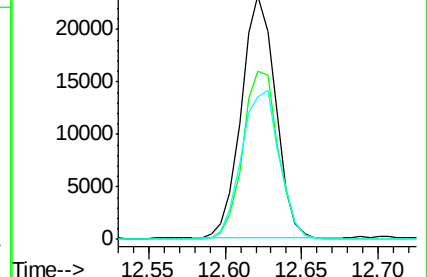
176 68.0 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

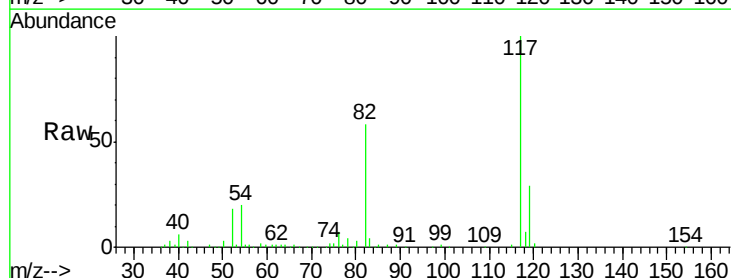
Tgt Ion: 117 Resp: 77554

Ion Ratio Lower Upper

117 100

82 57.9 44.8 67.2

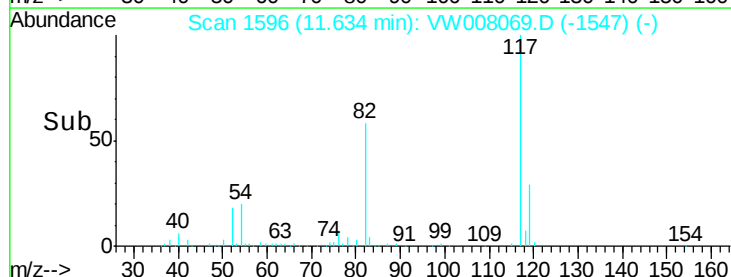
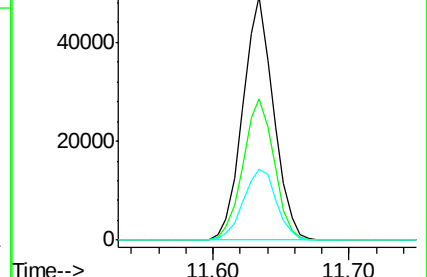
119 29.0 25.6 38.4

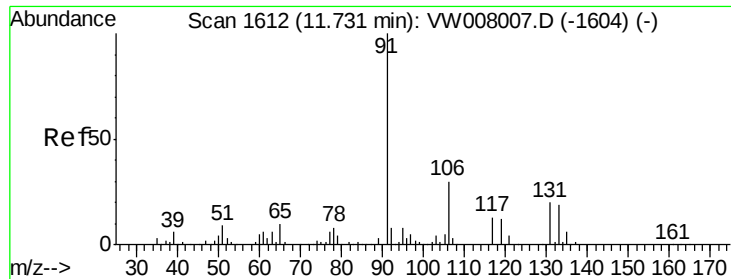


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

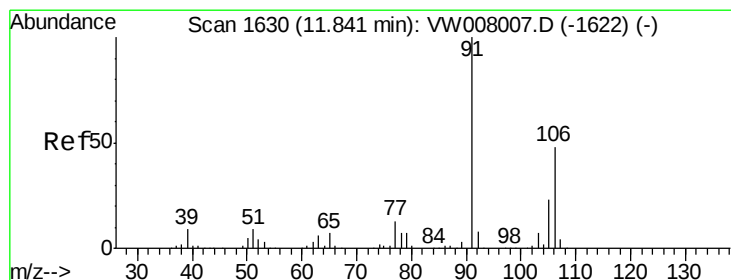
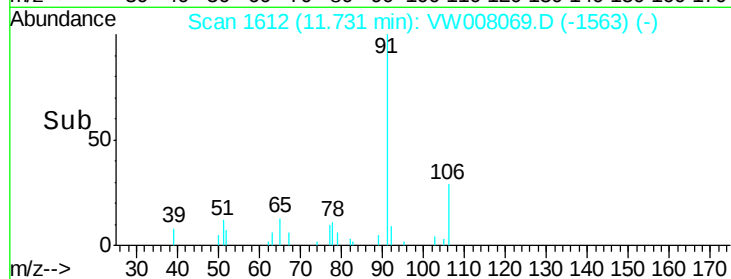
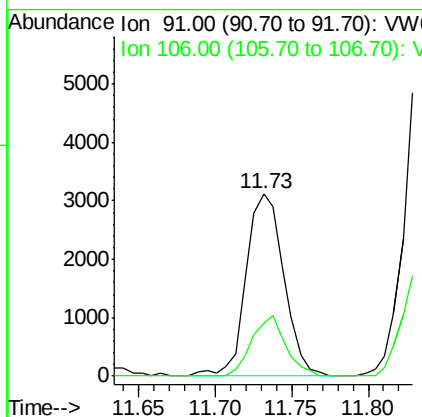
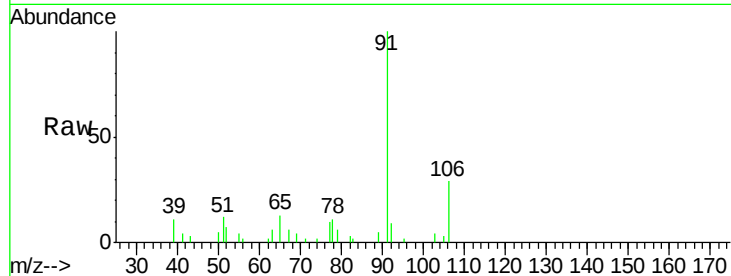




#67
Ethyl Benzene
Concen: 1.820 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

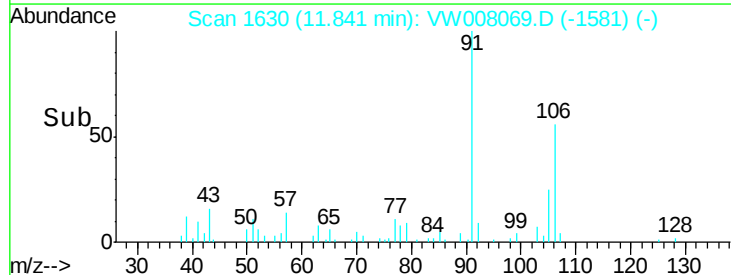
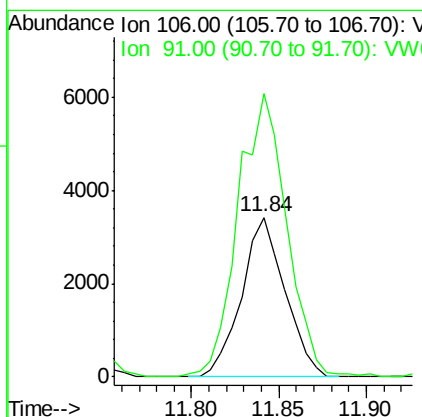
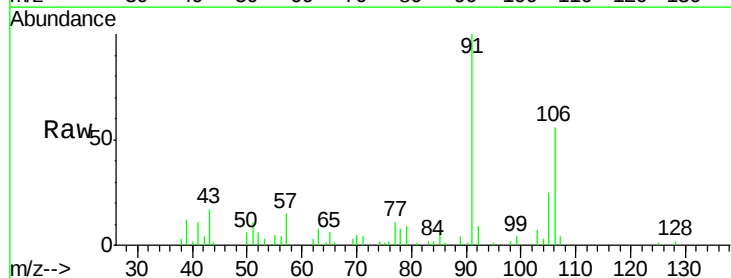
Instrument :
MSVOA_W
ClientSampled :
EO-02-010419-C

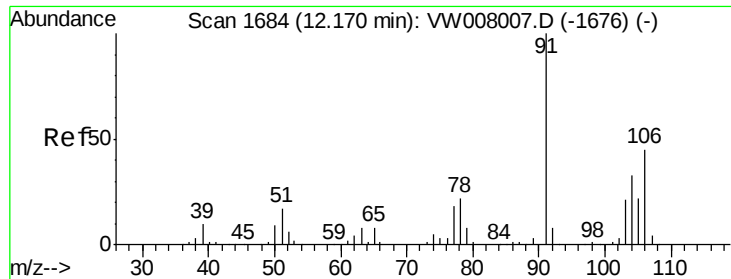
Tot Ion: 91 Resp: 5354
Ion Ratio Lower Upper
91 100
106 29.3 24.3 36.5



#68
m/p-Xylenes
Concen: 5.179 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Tgt Ion: 106 Resp: 5891
Ion Ratio Lower Upper
106 100
91 200.1 165.8 248.8

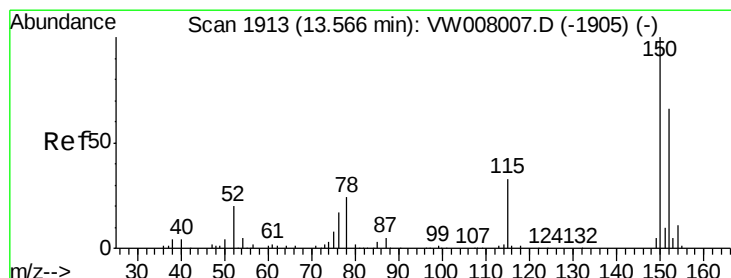
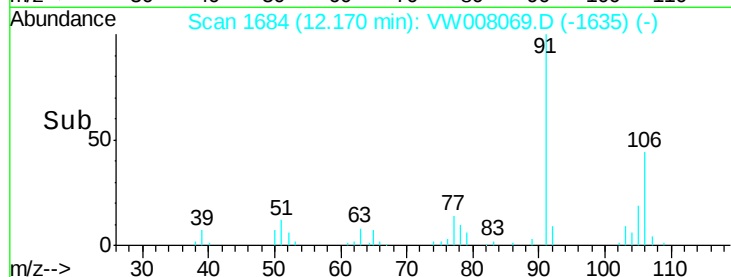
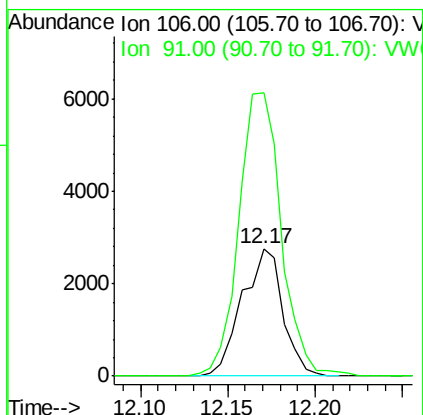
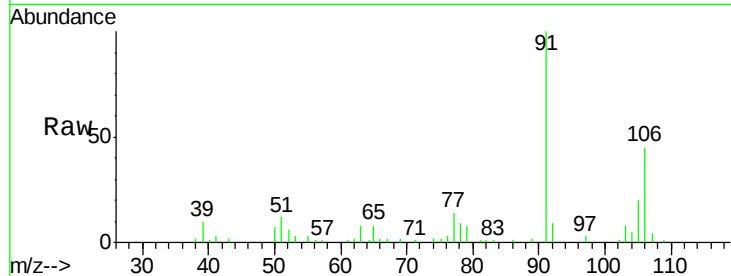




#69
o-Xylene
Concen: 4.256 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

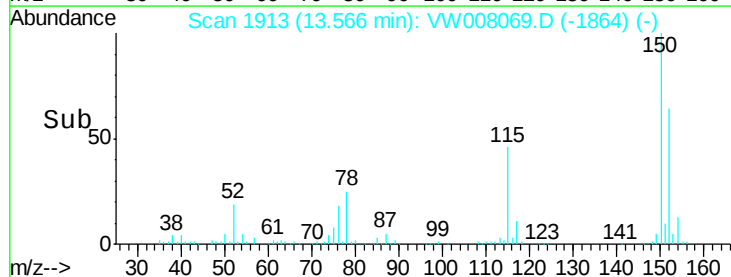
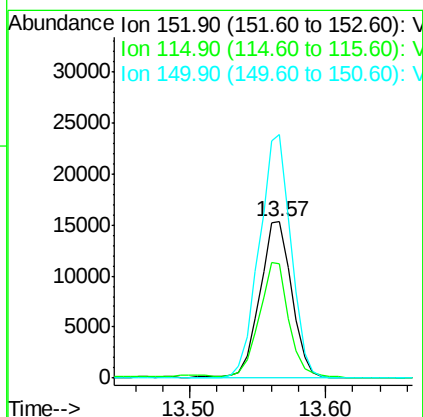
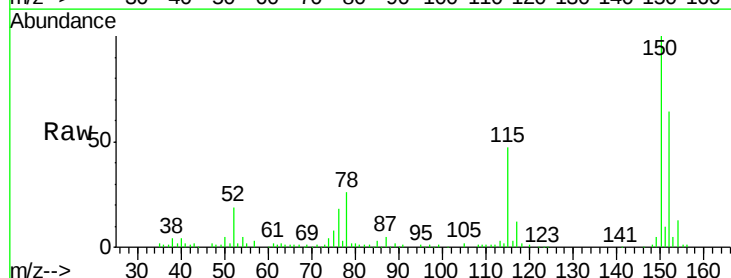
Instrument :
MSVOA_W
ClientSampleId :
EO-02-010419-C

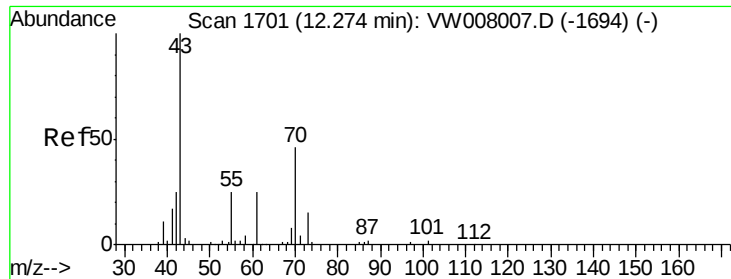
Tot Ion:106 Resp: 4504
Ion Ratio Lower Upper
106 100
91 230.7 110.6 331.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Tgt Ion:152 Resp: 25488
Ion Ratio Lower Upper
152 100
115 68.9 32.1 96.5
150 153.2 0.0 345.0





#74

N-amvl acetate

Concen: 1.509 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampled :

EO-02-010419-C

Tot Ion: 43 Resp: 476

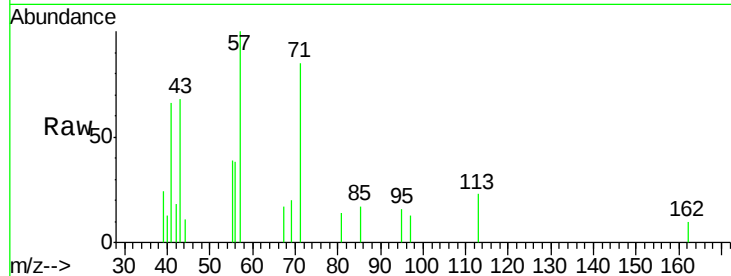
Ion Ratio Lower Upper

43 100

70 12.2 35.2 52.8#

55 75.8 21.4 32.0#

61 0.0 19.4 29.0#

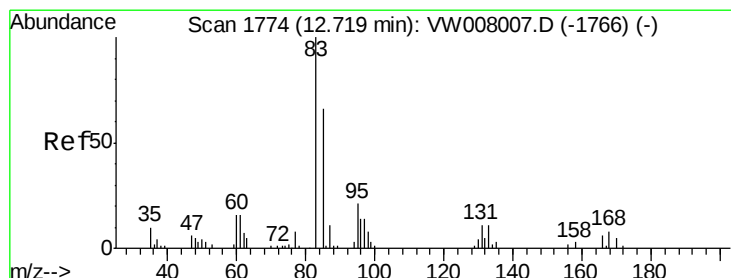
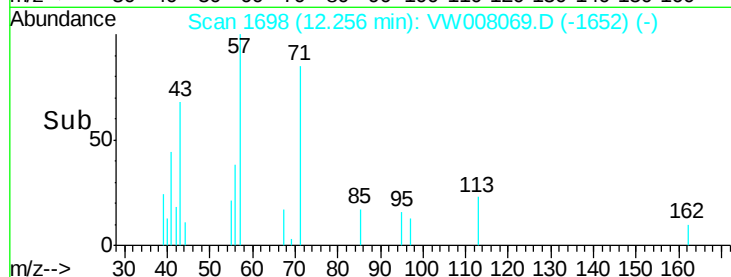
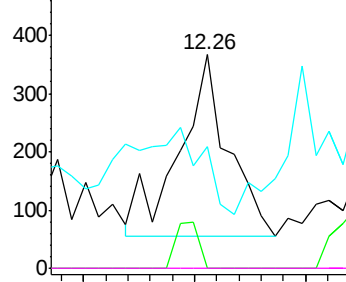


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 2.086 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

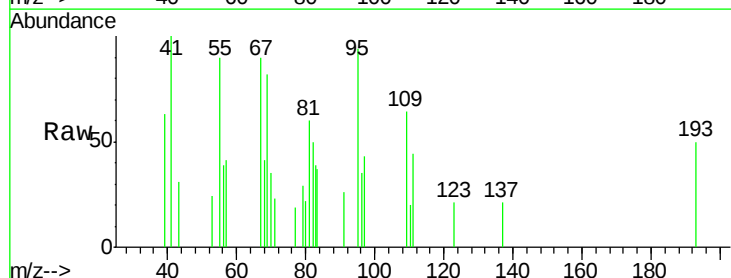
Tgt Ion: 83 Resp: 538

Ion Ratio Lower Upper

83 100

131 0.0 6.5 19.5#

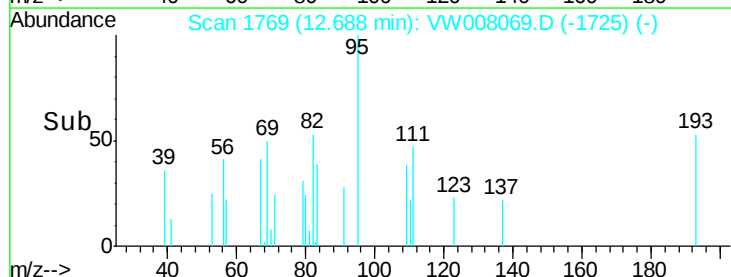
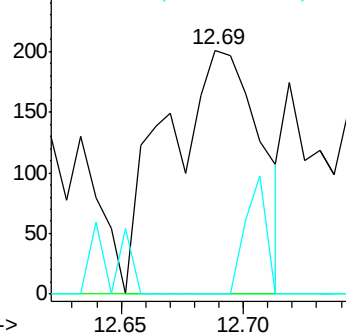
85 10.8 32.8 98.3#

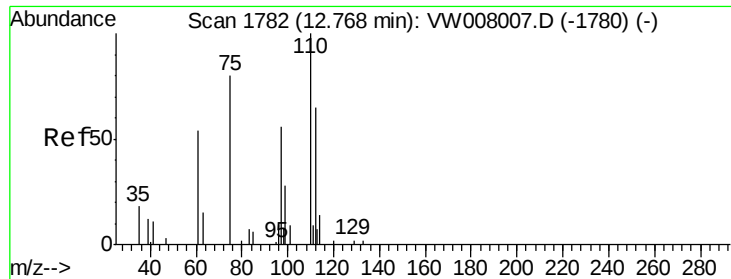


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 89.323 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

Instrument :

MSVOA_W

ClientSampleId :

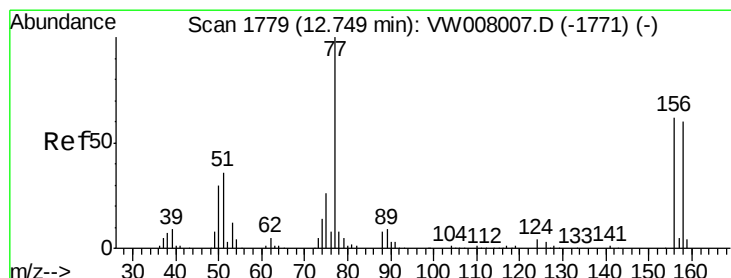
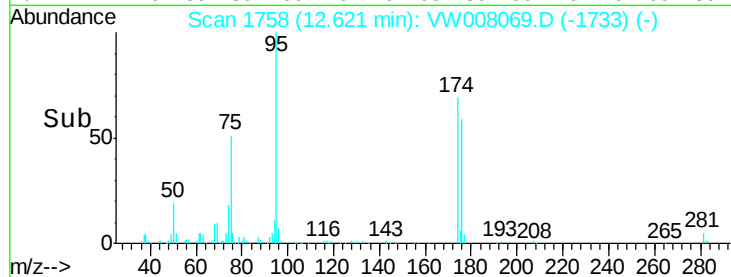
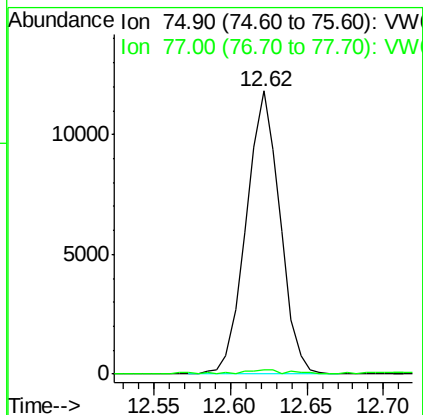
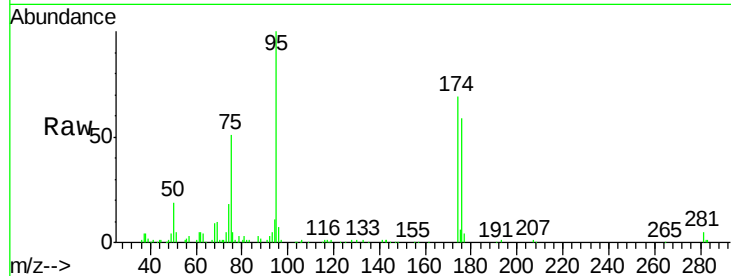
EO-02-010419-C

Tot Ion: 75 Resp: 18112

Ion Ratio Lower Upper

75 100

77 1.5 186.2 558.6#



#77

Bromobenzene

Concen: 5.326 ug/l

RT: 12.91 min Scan# 1805

Delta R.T. 0.16 min

Lab File: VW008069.D

Acq: 07 Jan 2019 15:02

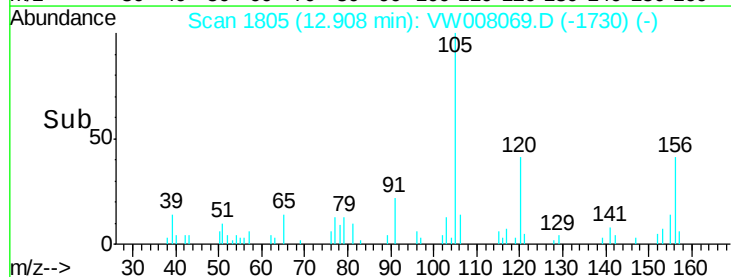
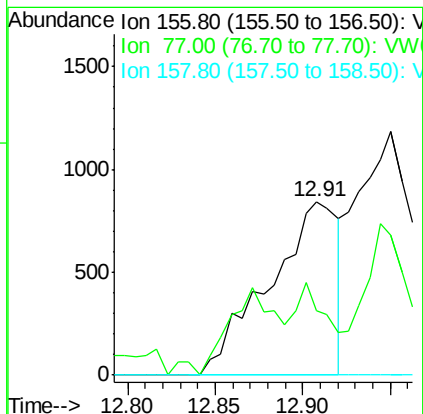
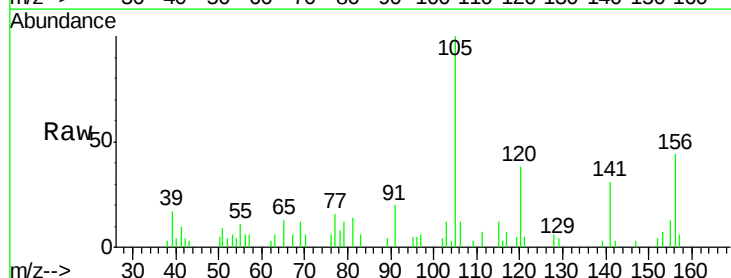
Tgt Ion: 156 Resp: 2320

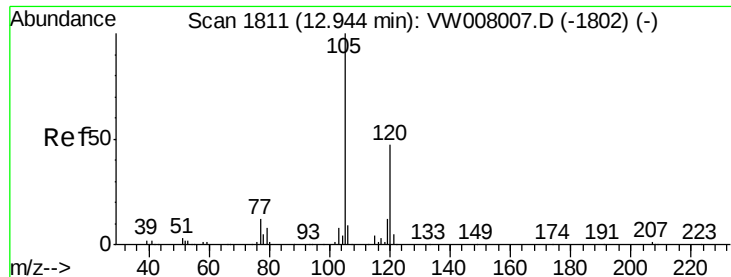
Ion Ratio Lower Upper

156 100

77 22.0 87.9 263.8#

158 0.0 47.8 143.4#

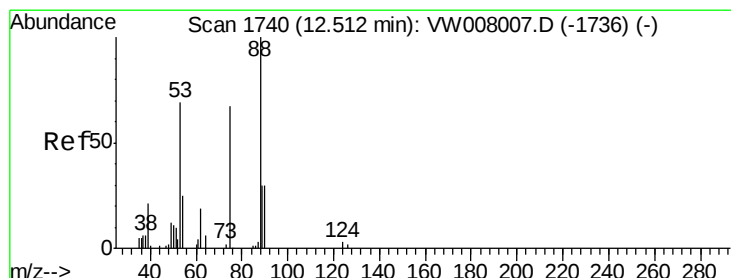
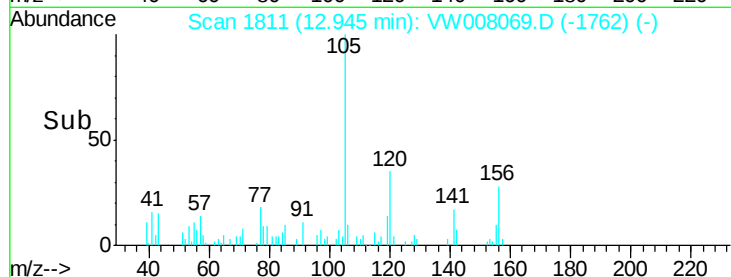
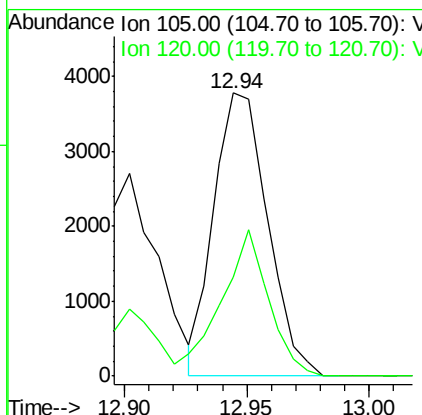
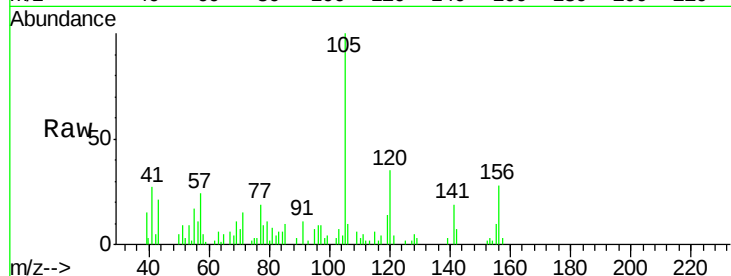




#80
 1,3,5-Trimethylbenzene
 Concen: 3.311 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW008069.D
 Acq: 07 Jan 2019 15:02

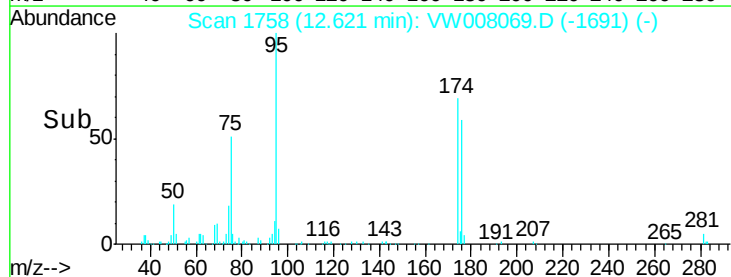
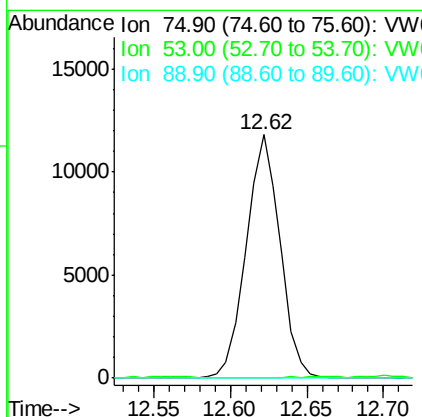
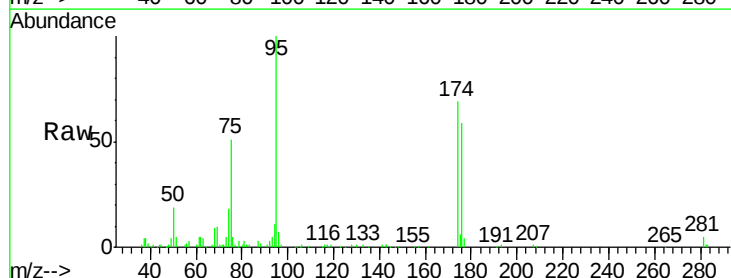
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-02-010419-C

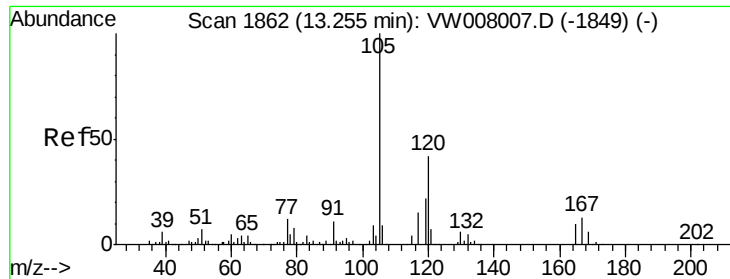
Tot Ion:105 Resp: 5777
 Ion Ratio Lower Upper
 105 100
 120 45.9 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 211.235 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008069.D
 Acq: 07 Jan 2019 15:02

Tgt Ion: 75 Resp: 18112
 Ion Ratio Lower Upper
 75 100
 53 0.0 87.6 131.4#
 89 0.0 42.2 63.2#

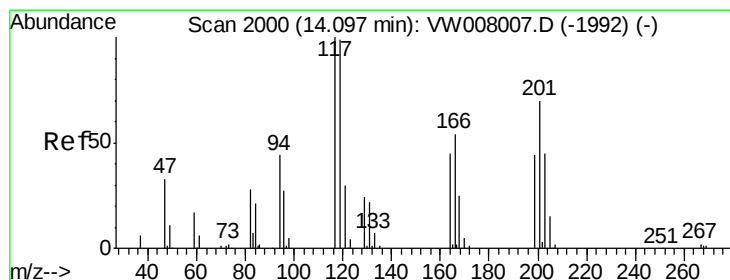
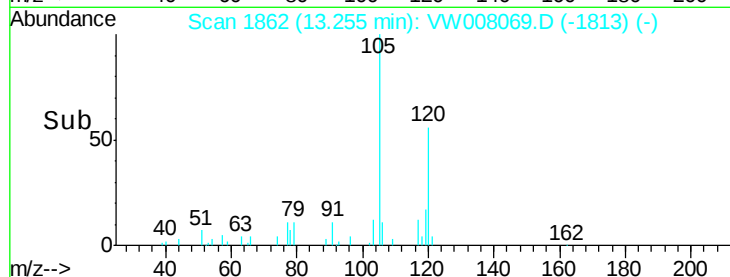
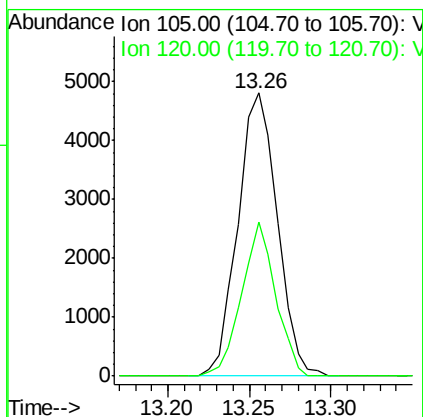
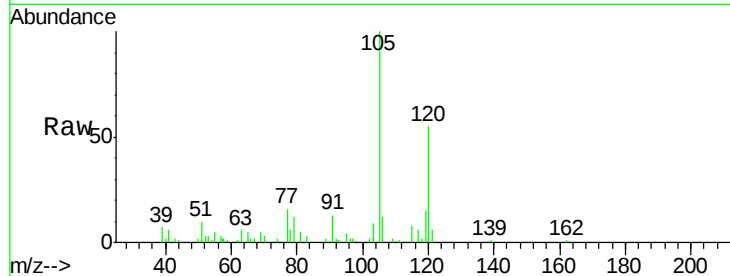




#84
 1,2,4-Trimethylbenzene
 Concen: 4.595 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW008069.D
 Acq: 07 Jan 2019 15:02

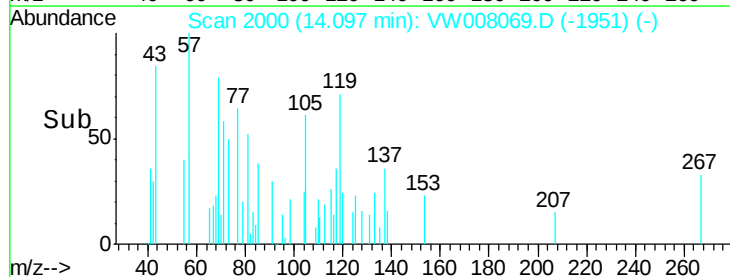
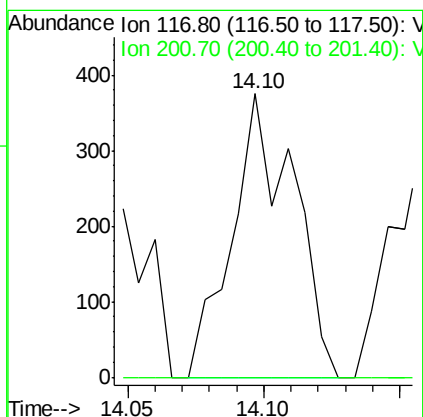
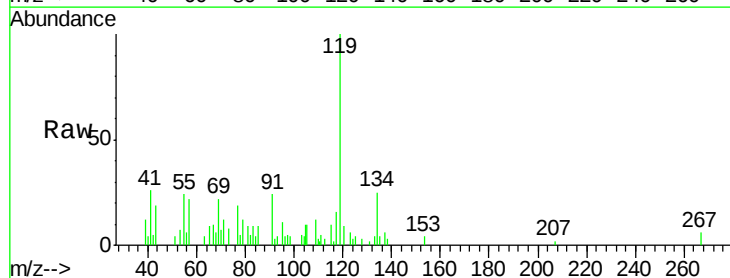
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-02-010419-C

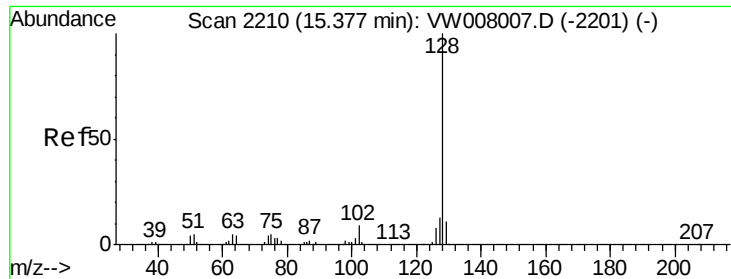
Tot Ion:105 Resp: 8119
 Ion Ratio Lower Upper
 105 100
 120 46.9 21.5 64.5



#90
 Hexachloroethane
 Concen: 1.792 ug/l
 RT: 14.10 min Scan# 2000
 Delta R.T. 0.00 min
 Lab File: VW008069.D
 Acq: 07 Jan 2019 15:02

Tgt Ion:117 Resp: 589
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.1 111.5#

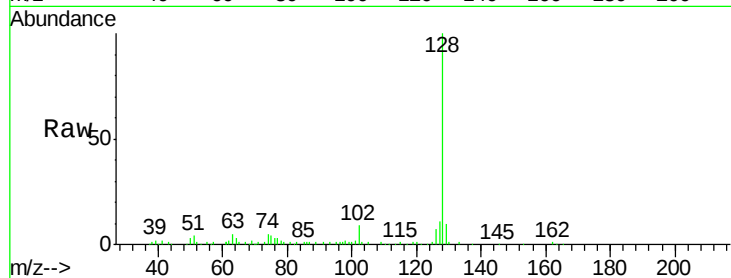




#95
Naphthalene
Concen: 38.378 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW008069.D
Acq: 07 Jan 2019 15:02

Instrument :
MSVOA_W
ClientSampleId :
EO-02-010419-C

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	11.1	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

