

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090618\
 Data File : VW005192.D
 Acq On : 07 Sep 2018 05:30
 Operator : SY/AP
 Sample : J4693-07RE
 Misc : 6.10G/5ML/MSVOA_W/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-MW-FD01RE

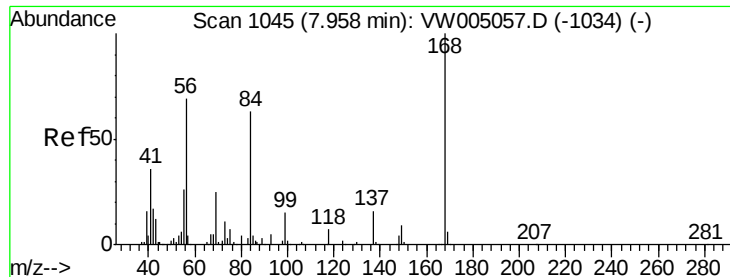
Quant Time: Sep 07 08:06:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090118S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 01 03:35:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	379886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	605780	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	664597	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	368106	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	199205	63.26	ug/l	0.00
Spiked Amount			Recovery	=	126.52%	
35) Dibromofluoromethane	7.89	113	177676	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.33	98	810462	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.62	95	336002	59.07	ug/l	0.00
Spiked Amount			Recovery	=	118.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	378	Below Cal	#	77
10) Methyl Iodide	4.27	142	77	3.833	ug/l #	44
11) Tert butyl alcohol	5.16	59	1754	Below Cal	#	72
16) Acetone	4.14	43	28820	45.634	ug/l	94
20) Methylene Chloride	4.92	84	34729	4.606	ug/l	94
25) 2-Butanone	7.18	43	7172	6.547	ug/l #	81
31) Cyclohexane	7.96	56	6256	1.011	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	25389	4.401	ug/l #	48
38) Carbon Tetrachloride	7.96	117	33565	6.119	ug/l #	17
55) 1,1,2-Trichloroethane	10.76	97	3605	1.129	ug/l #	26
59) 2-Hexanone	10.94	43	11934	6.705	ug/l #	28
73) Isopropylbenzene	12.47	105	141100	5.436	ug/l	99
74) N-amyl acetate	12.26	43	112510	25.175	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.69	83	10106	2.558	ug/l #	66
76) 1,2,3-Trichloropropane	12.62	75	153339	55.496	ug/l #	100
78) n-propylbenzene	12.81	91	141793	4.525	ug/l	100
79) 2-Chlorotoluene	12.81	91	141793	7.757	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.62	75	153339	133.572	ug/l #	16
82) 4-Chlorotoluene	12.81	91	141793	7.346	ug/l #	40
85) sec-Butylbenzene	13.39	105	103023	3.740	ug/l #	74
86) p-Isopropyltoluene	13.66	119	42803	1.755	ug/l	94
90) Hexachloroethane	14.10	117	7455	1.841	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.52	75	718	1.163	ug/l #	1
95) Naphthalene	15.38	128	2485	4.152	ug/l #	80

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

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MSVOA_W

ClientSampleId :

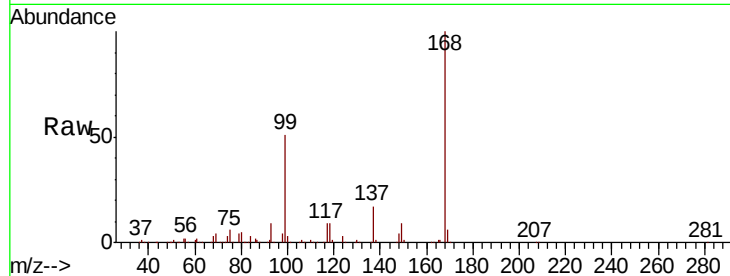
EP1-MW-FD01RE

Tgt Ion: 168 Resp: 379886

Ion Ratio Lower Upper

168 100

99 50.6 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.96

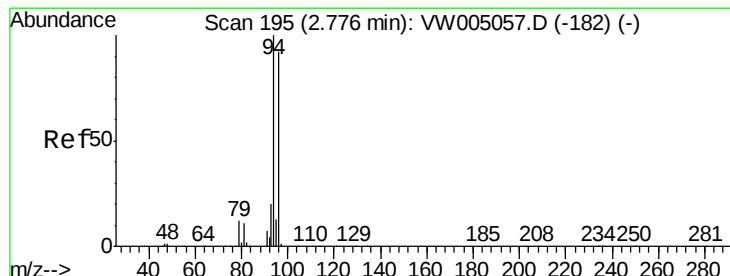
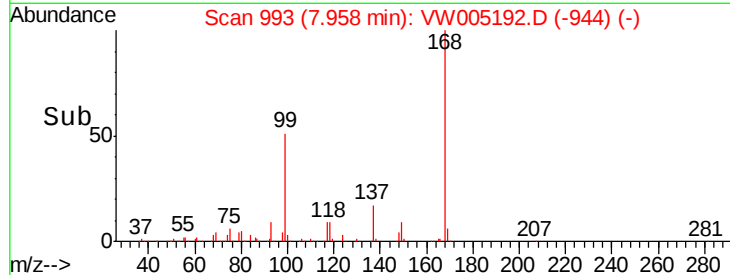
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW005192.D

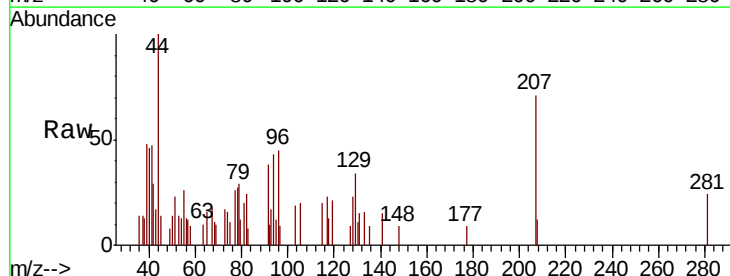
Acq: 07 Sep 2018 05:30

Tgt Ion: 94 Resp: 378

Ion Ratio Lower Upper

94 100

96 69.4 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.77

400

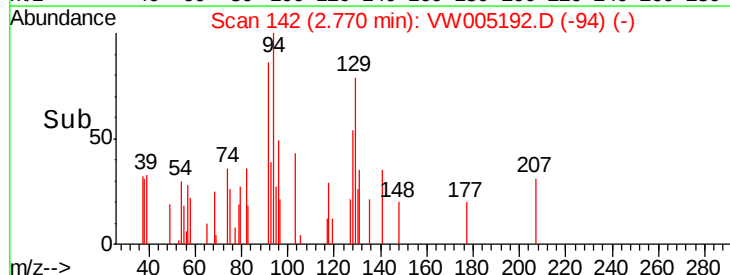
300

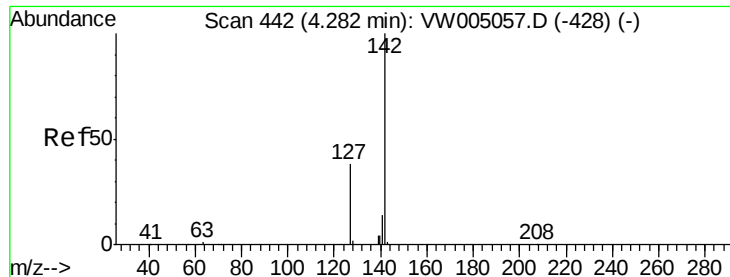
200

100

0

Time-->

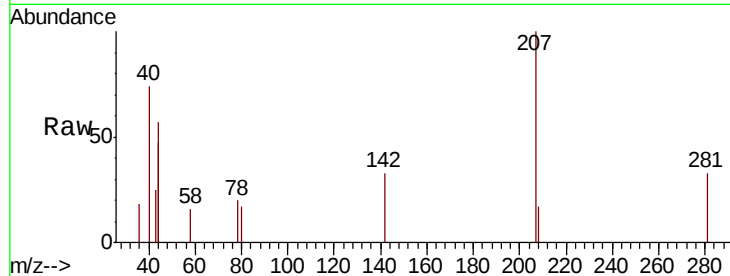




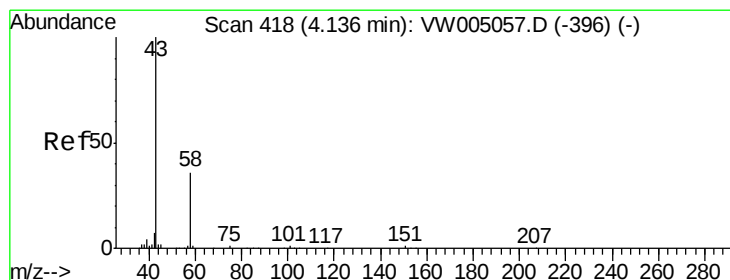
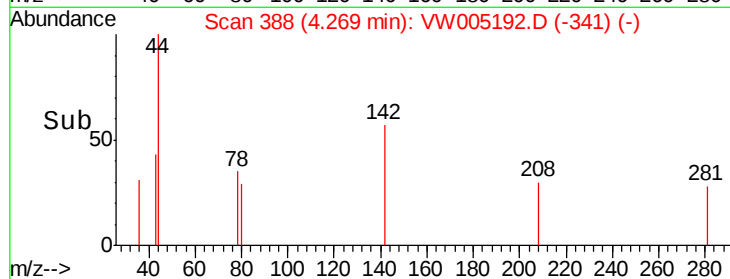
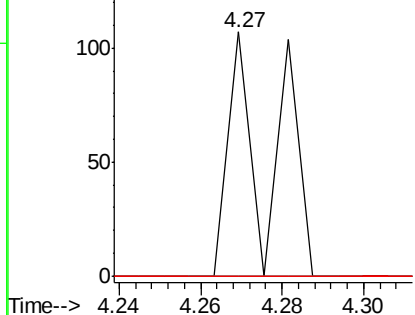
#10
Methyl Iodide
Concen: 3.833 ug/l
RT: 4.27 min Scan# 388
Delta R.T. -0.01 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

Tgt Ion: 142 Resp: 77
Ion Ratio Lower Upper
142 100
127 0.0 30.8 46.2#
141 0.0 11.6 17.4#

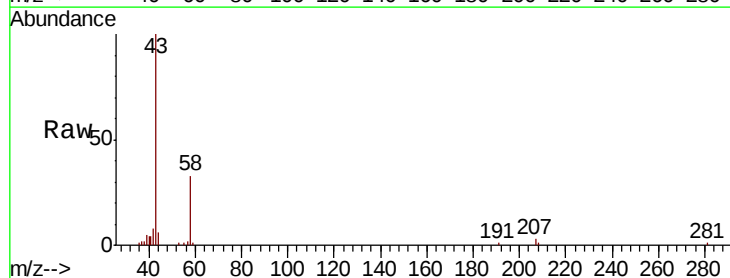


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

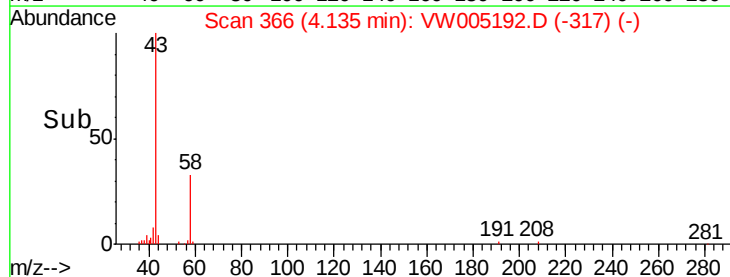
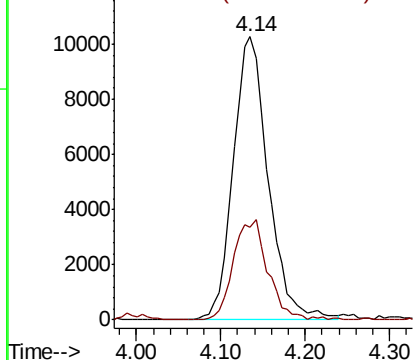


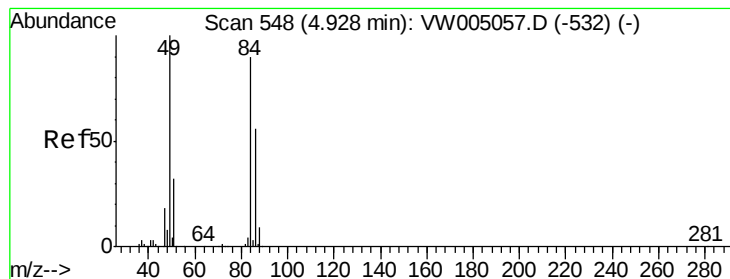
#16
Acetone
Concen: 45.634 ug/l
RT: 4.14 min Scan# 366
Delta R.T. -0.00 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion: 43 Resp: 28820
Ion Ratio Lower Upper
43 100
58 33.0 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VW
12000 Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 4.606 ug/l

RT: 4.92 min Scan# 495

Delta R.T. -0.01 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

EP1-MW-FD01RE

Tgt Ion: 84 Resp: 34729

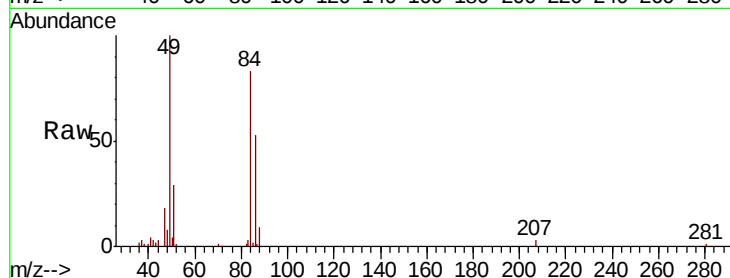
Ion Ratio Lower Upper

84 100

49 121.2 88.7 133.1

51 35.5 28.6 42.8

86 64.7 49.4 74.2

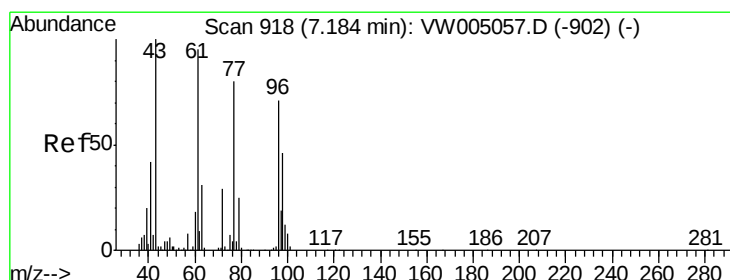
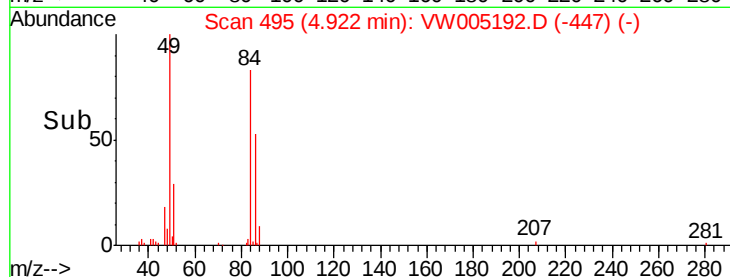
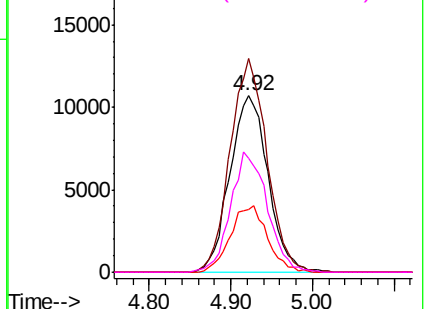


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#25

2-Butanone

Concen: 6.547 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW005192.D

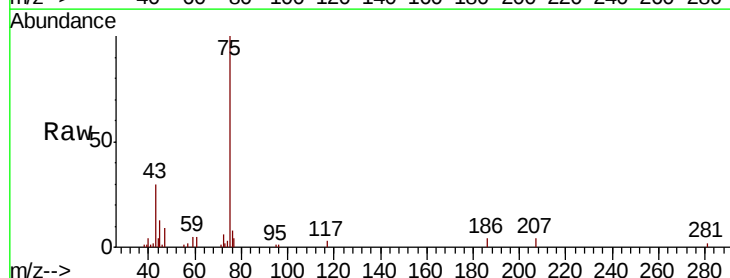
Acq: 07 Sep 2018 05:30

Tgt Ion: 43 Resp: 7172

Ion Ratio Lower Upper

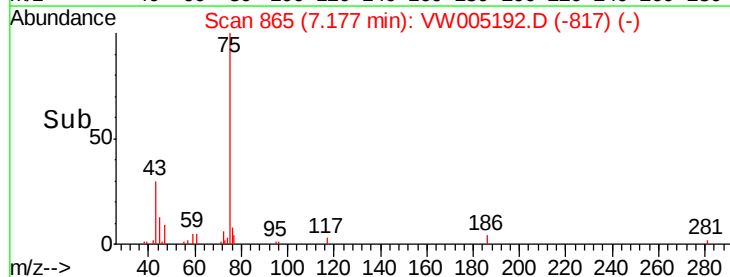
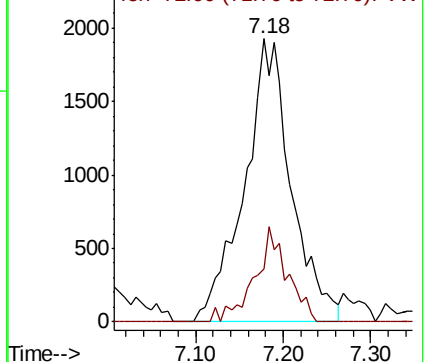
43 100

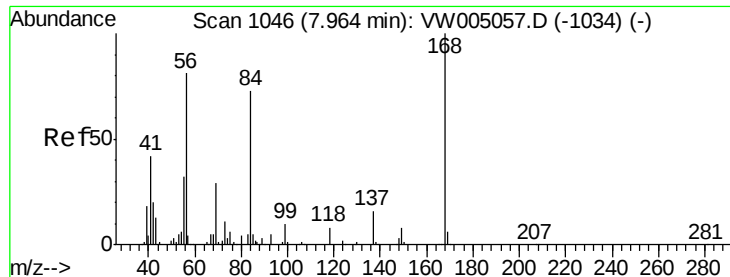
72 18.5 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

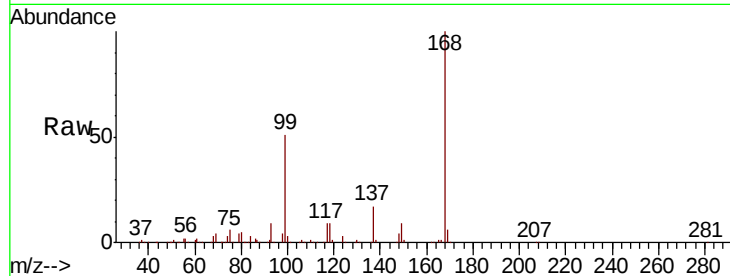




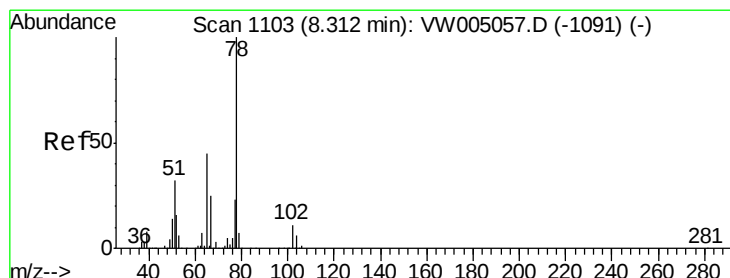
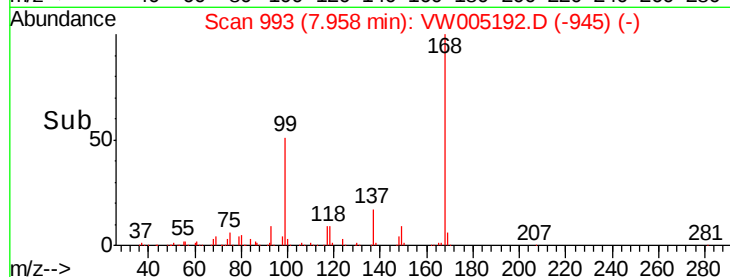
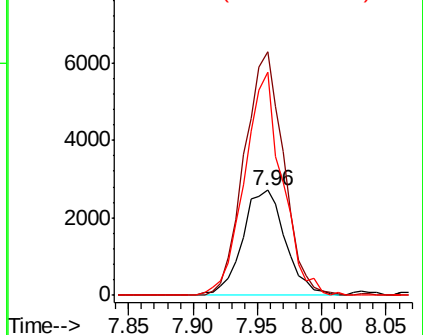
#31
Cyclohexane
Concen: 1.011 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

Tgt Ion: 56 Resp: 6256
Ion Ratio Lower Upper
56 100
69 231.7 28.2 42.2#
84 211.8 71.8 107.8#

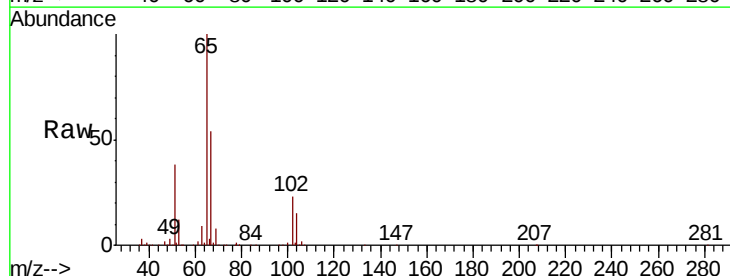


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

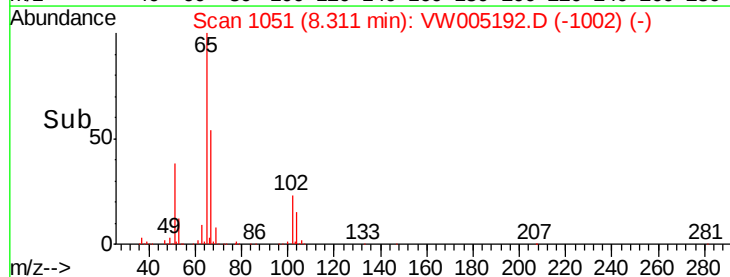
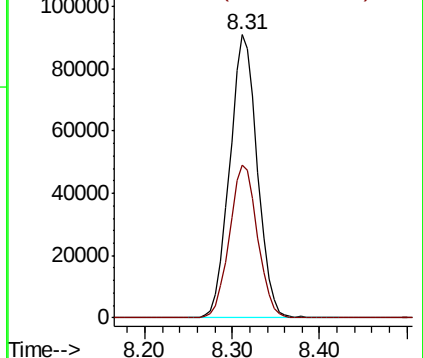


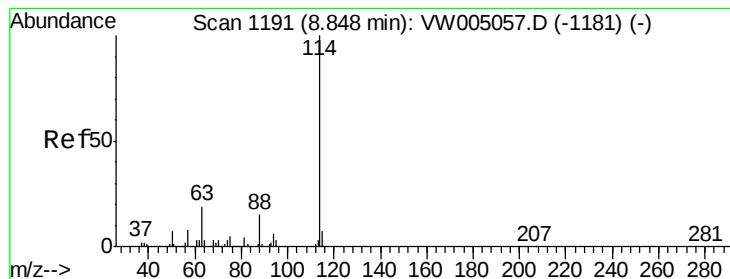
#33
1,2-Dichloroethane-d4
Concen: 63.258 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion: 65 Resp: 199205
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

EP1-MW-FD01RE

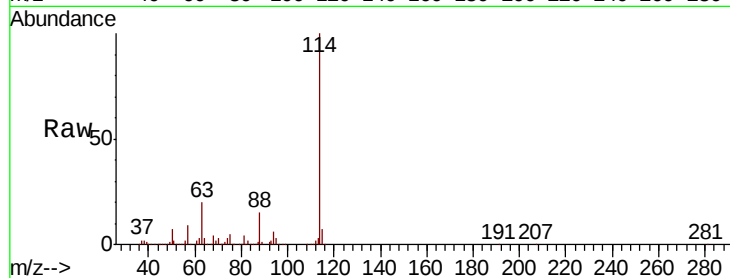
Tgt Ion:114 Resp: 605780

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.0

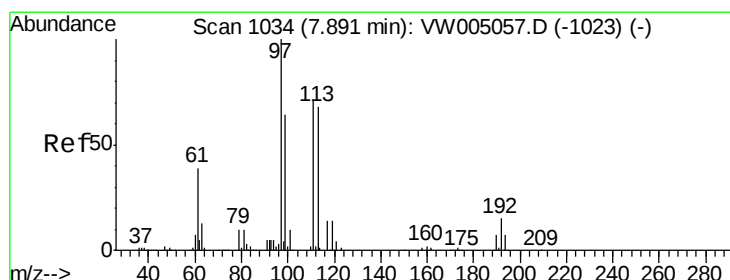
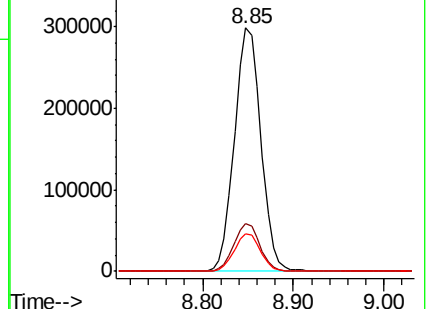
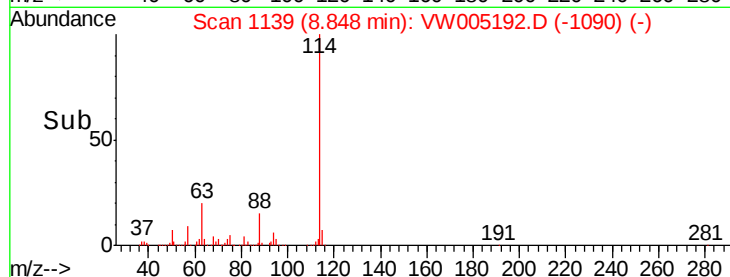
88 15.3 0.0 30.2



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



#35

Dibromofluoromethane

Concen: 50.754 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

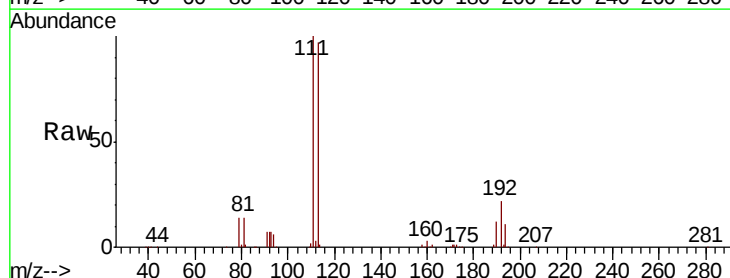
Tgt Ion:113 Resp: 177676

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

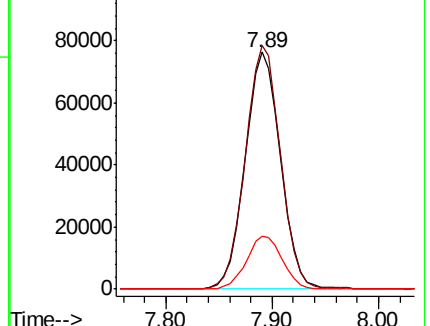
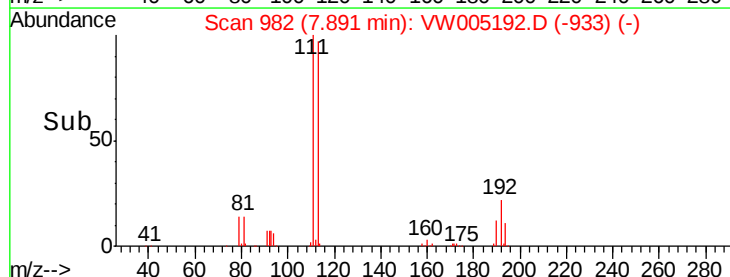
192 22.8 18.1 27.1

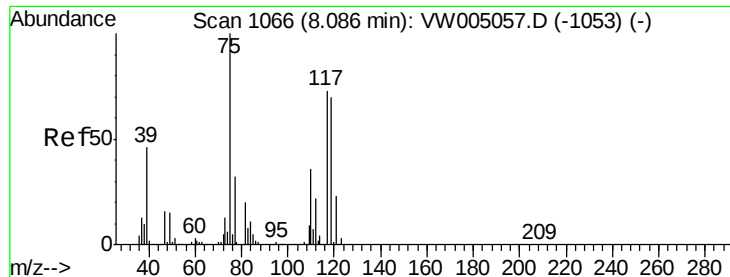


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.401 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

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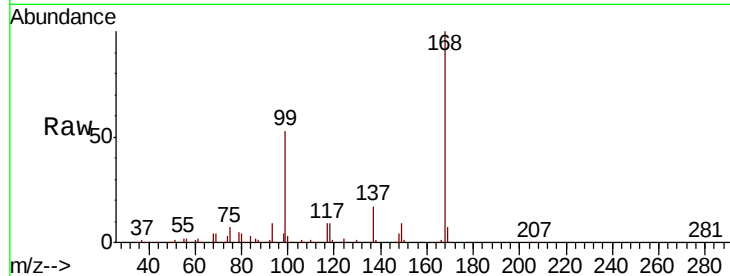
Tgt Ion: 75 Resp: 25389

Ion Ratio Lower Upper

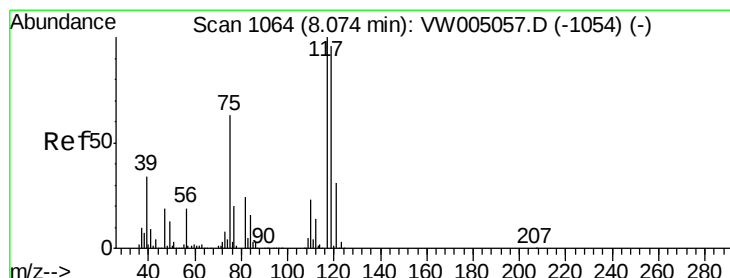
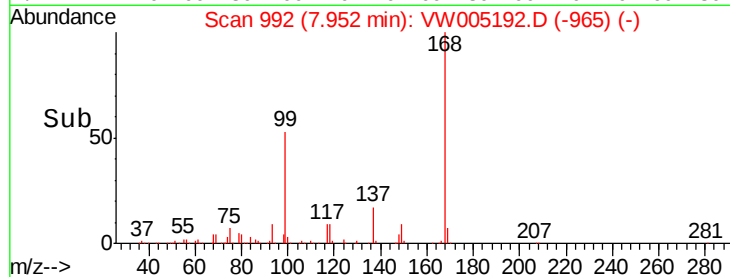
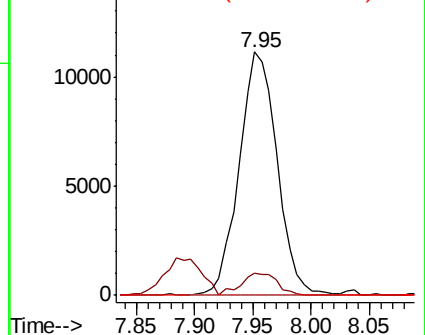
75 100

110 8.7 18.9 56.7#

77 0.0 25.5 38.3#



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



#38

Carbon Tetrachloride

Concen: 6.119 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

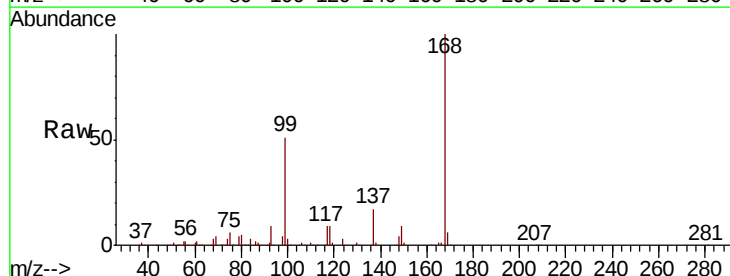
Tgt Ion: 117 Resp: 33565

Ion Ratio Lower Upper

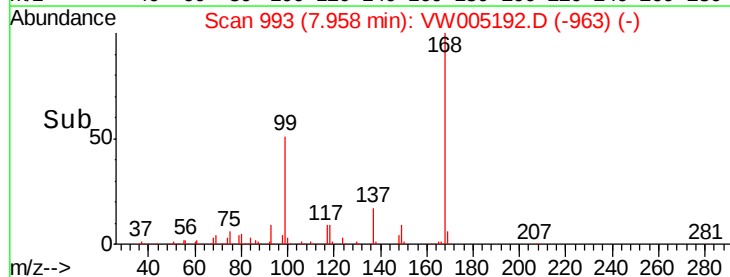
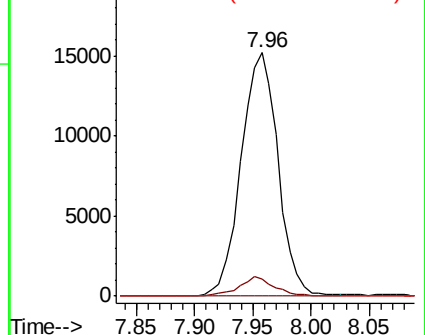
117 100

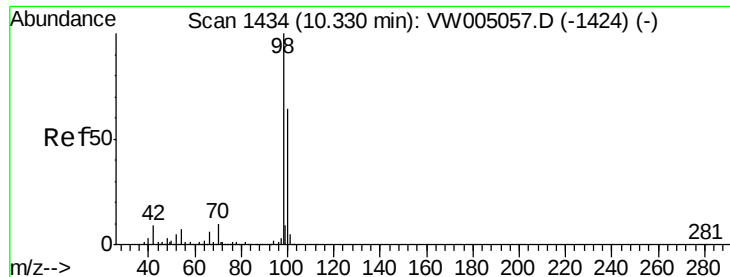
119 6.9 76.6 115.0#

121 0.0 24.8 37.2#



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





#50

Toluene-d8

Concen: 50.244 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

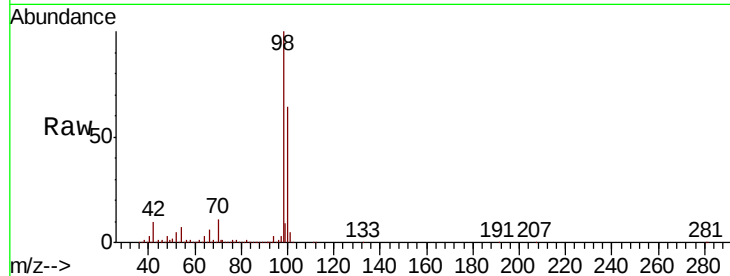
EP1-MW-FD01RE

Tgt Ion: 98 Resp: 810462

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.33

500000

400000

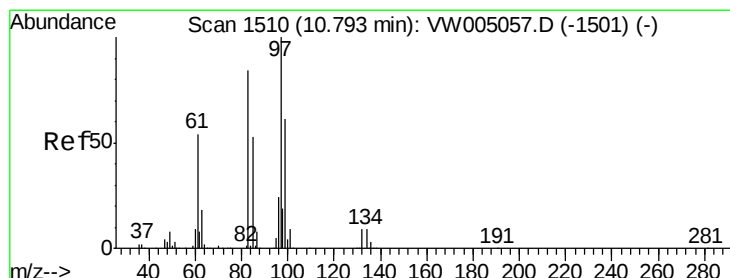
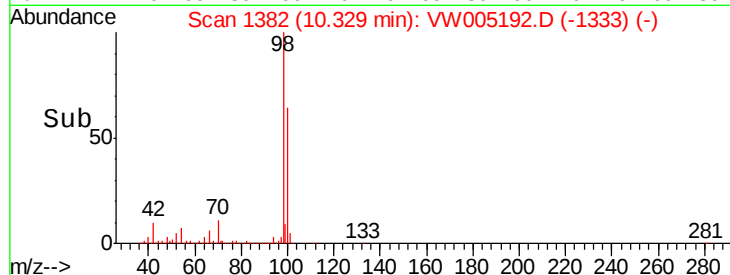
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.129 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.03 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Tgt Ion: 97 Resp: 3605

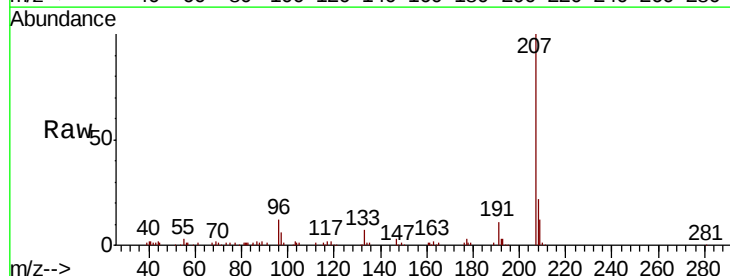
Ion Ratio Lower Upper

97 100

83 9.0 67.0 100.6#

85 15.5 42.3 63.5#

99 0.0 48.5 72.7#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

3000

2500

2000

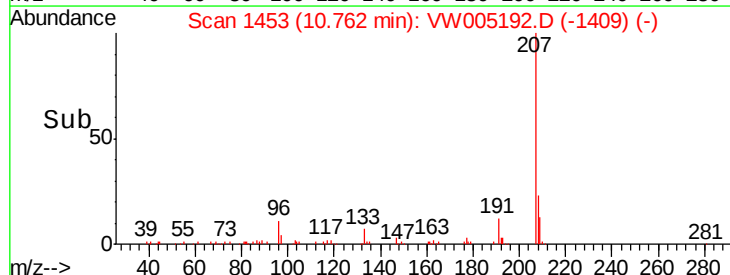
1500

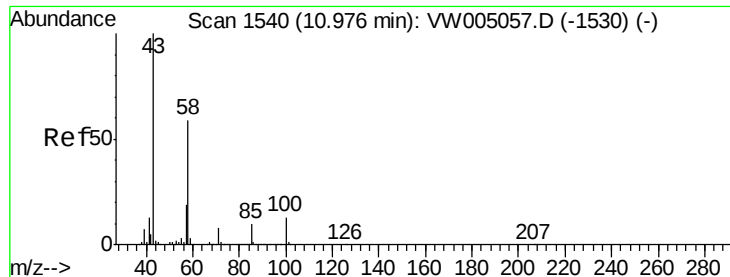
1000

500

0

Time-->

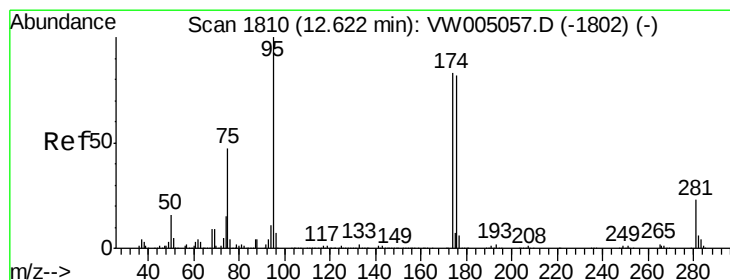
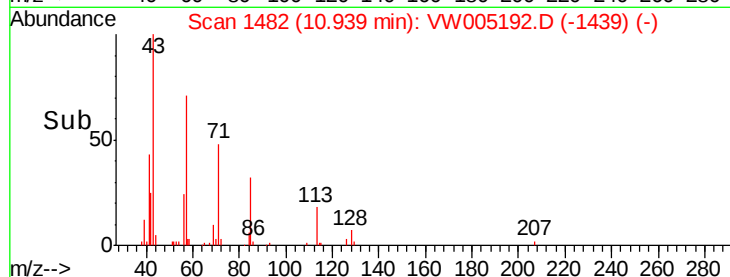
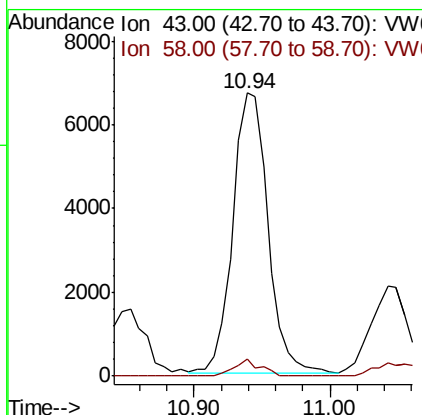
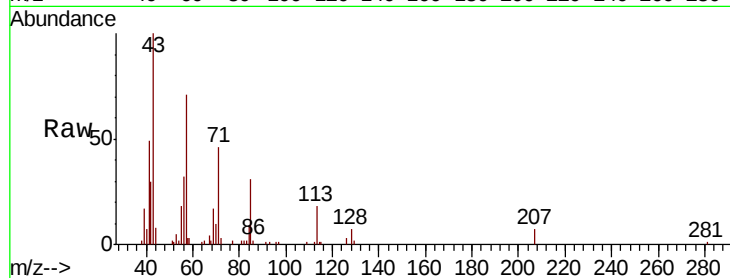




#59
2-Hexanone
Concen: 6.705 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

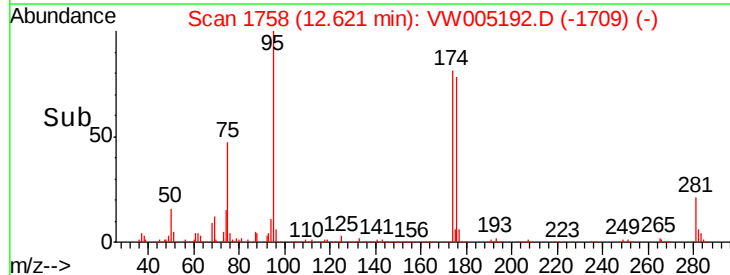
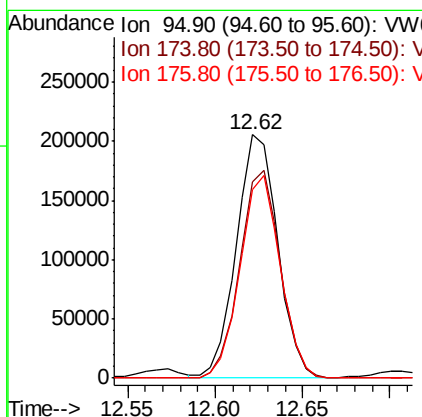
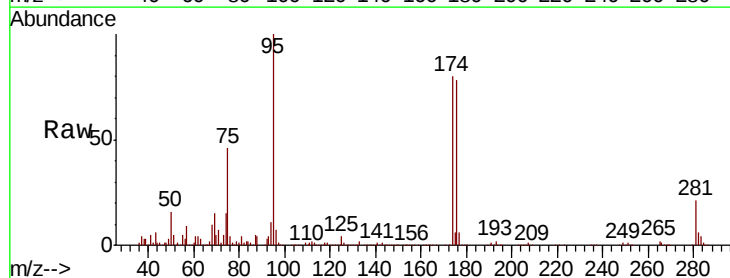
Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

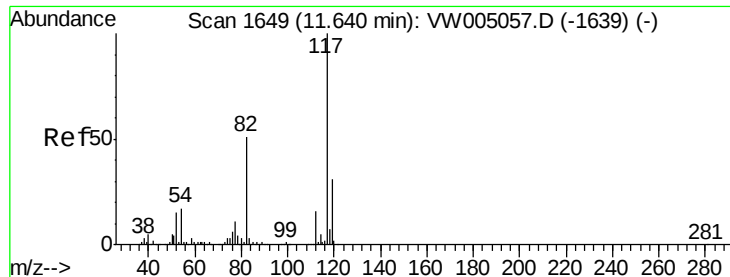
Tgt Ion: 43 Resp: 11934
Ion Ratio Lower Upper
43 100
58 4.4 28.7 86.3#



#62
4-Bromofluorobenzene
Concen: 59.074 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion: 95 Resp: 336002
Ion Ratio Lower Upper
95 100
174 84.1 0.0 173.4
176 81.4 0.0 167.4

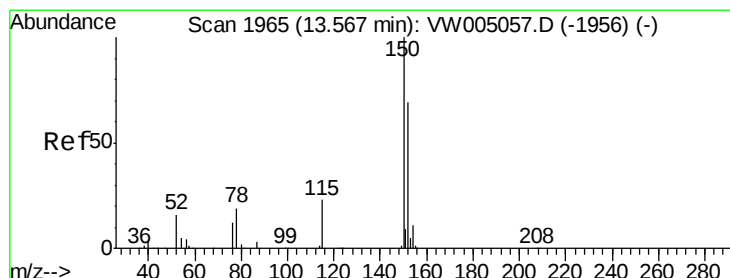
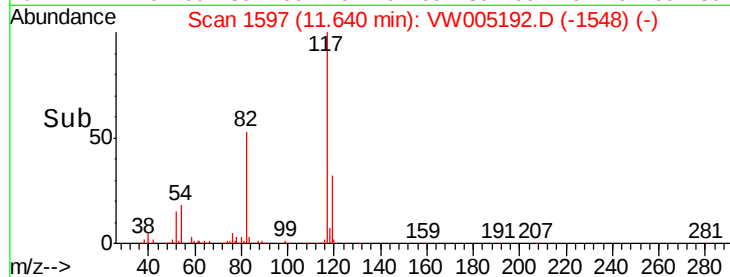
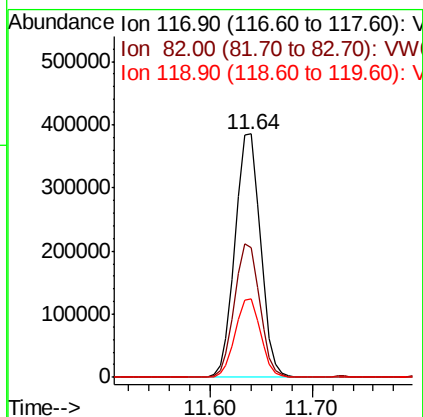
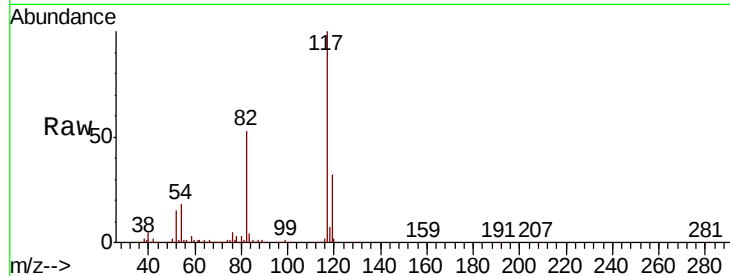




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

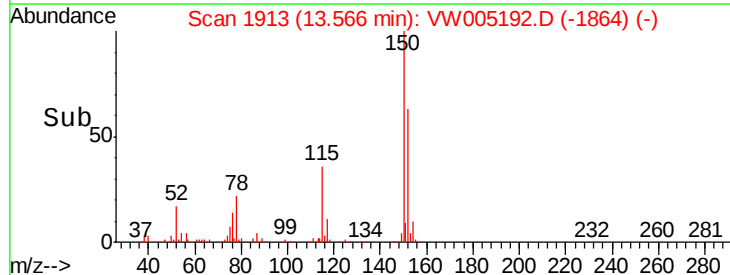
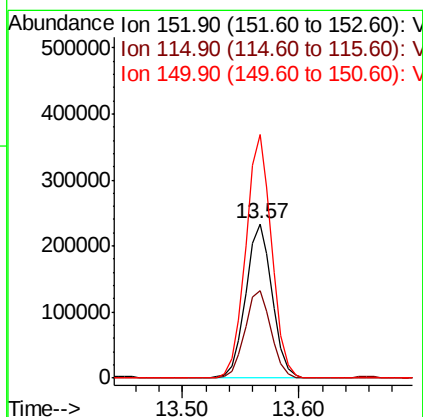
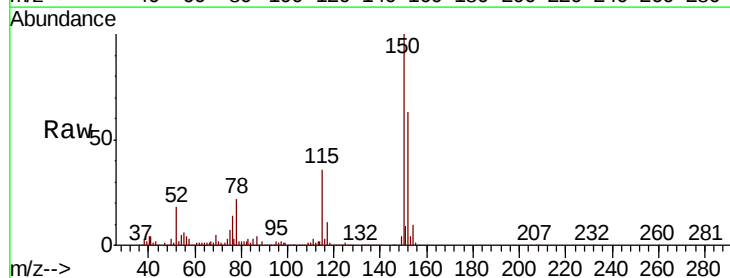
Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

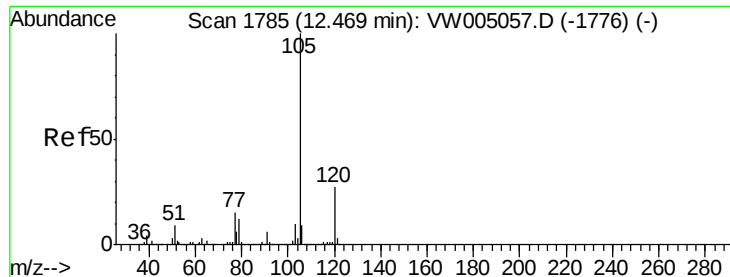
Tgt Ion:117 Resp: 664597
Ion Ratio Lower Upper
117 100
82 53.1 40.9 61.3
119 32.1 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion:152 Resp: 368106
Ion Ratio Lower Upper
152 100
115 56.5 27.8 83.4
150 154.8 0.0 351.4





#73

Isopropylbenzene

Concen: 5.436 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

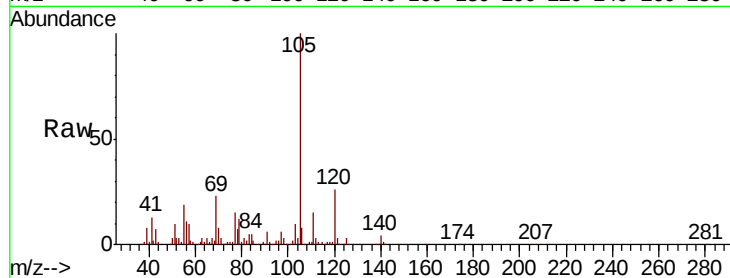
EP1-MW-FD01RE

Tgt Ion:105 Resp: 141100

Ion Ratio Lower Upper

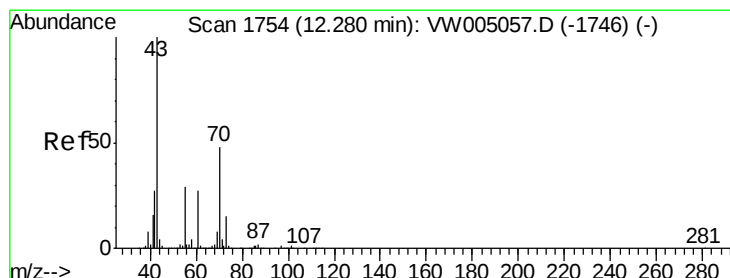
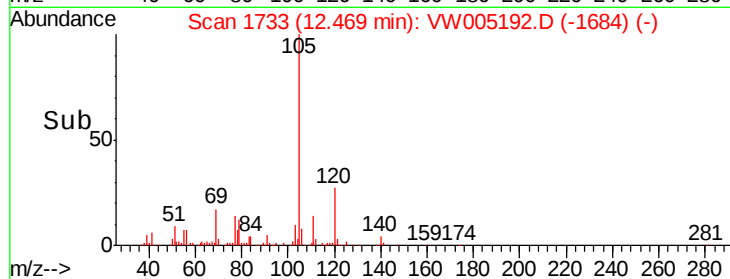
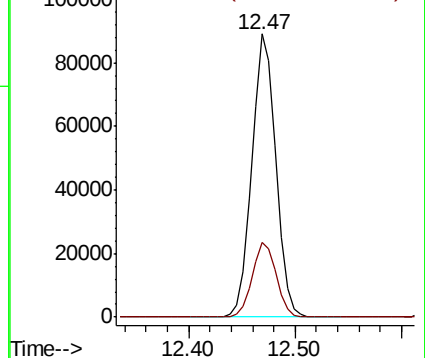
105 100

120 26.3 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.175 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.02 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Tgt Ion: 43 Resp: 112510

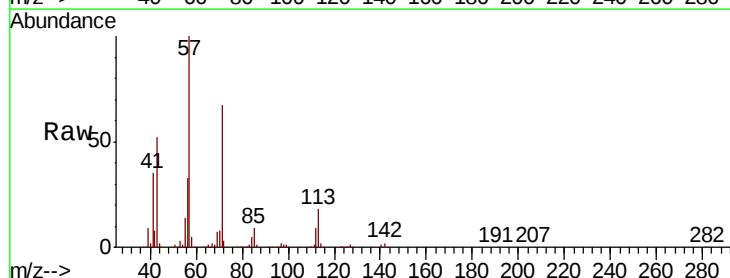
Ion Ratio Lower Upper

43 100

70 18.3 38.2 57.4#

55 29.7 23.2 34.8

61 0.0 20.6 31.0#

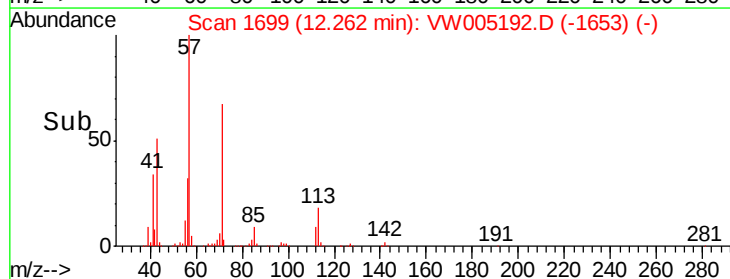
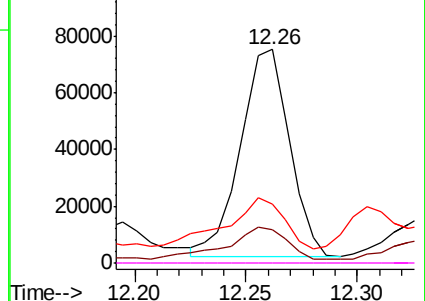


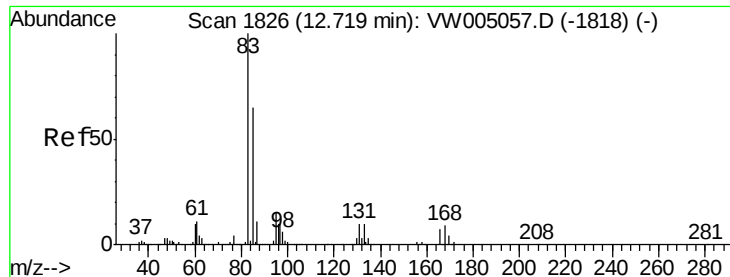
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 2.558 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

EP1-MW-FD01RE

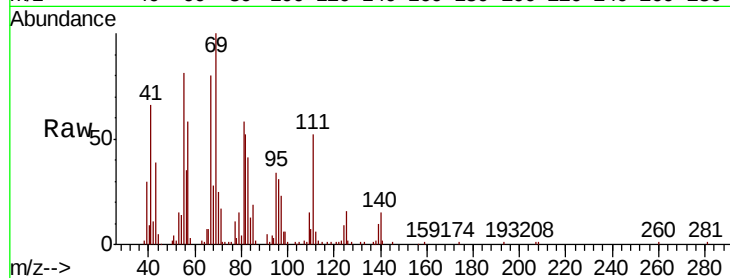
Tgt Ion: 83 Resp: 10106

Ion Ratio Lower Upper

83 100

131 1.7 5.5 16.4#

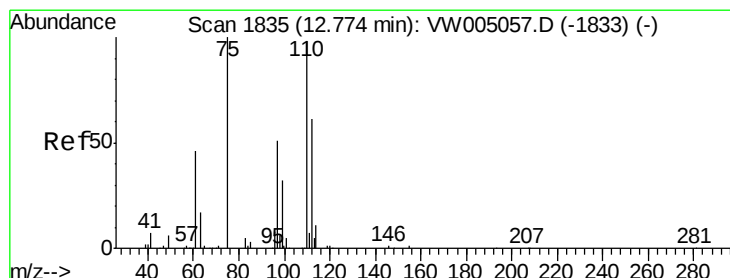
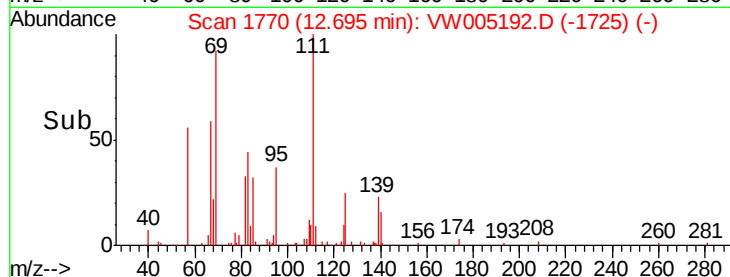
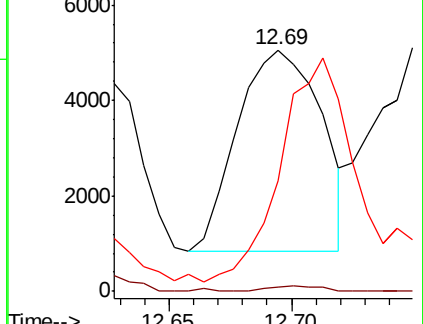
85 93.4 32.5 97.4



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: 55.496 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005192.D

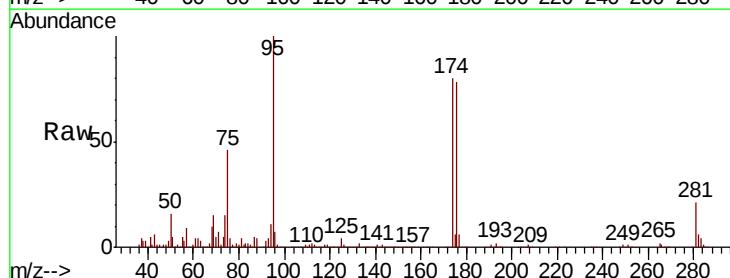
Acq: 07 Sep 2018 05:30

Tgt Ion: 75 Resp: 153339

Ion Ratio Lower Upper

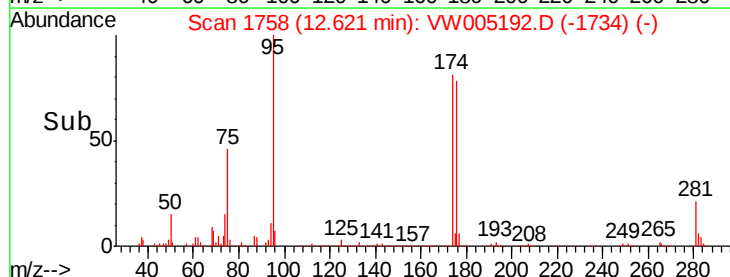
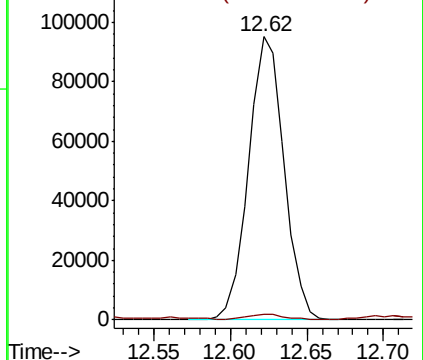
75 100

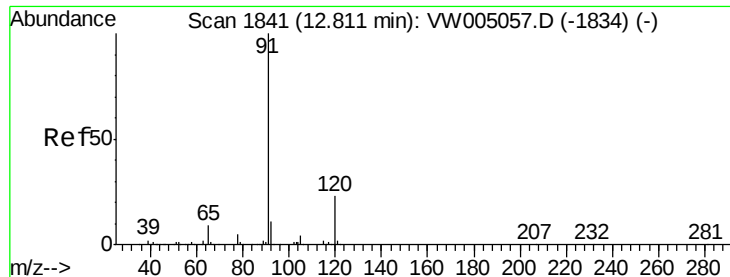
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 4.525 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005192.D

Acq: 07 Sep 2018 05:30

Instrument :

MSVOA_W

ClientSampleId :

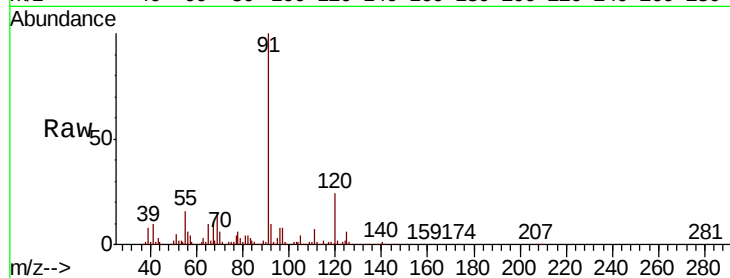
EP1-MW-FD01RE

Tgt Ion: 91 Resp: 141793

Ion Ratio Lower Upper

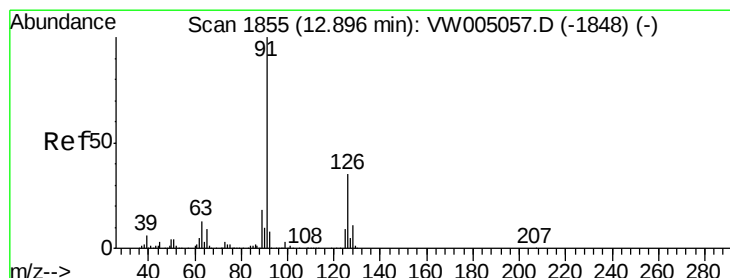
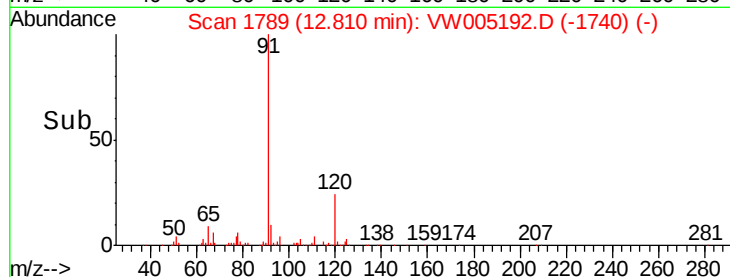
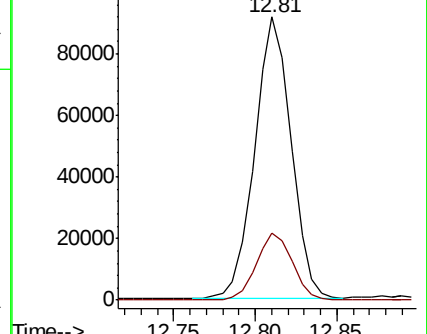
91 100

120 23.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 7.757 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.09 min

Lab File: VW005192.D

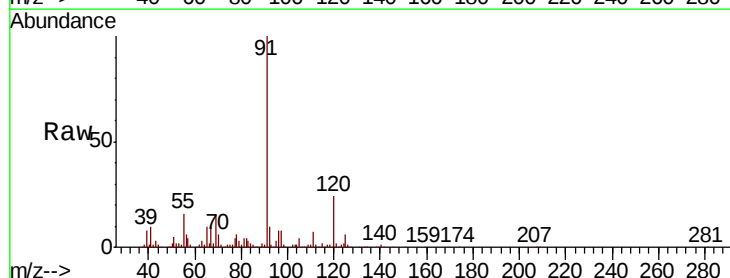
Acq: 07 Sep 2018 05:30

Tgt Ion: 91 Resp: 141793

Ion Ratio Lower Upper

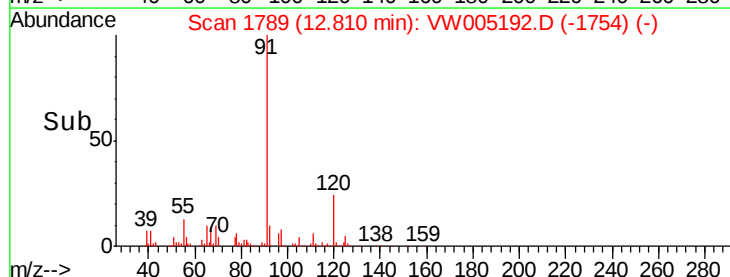
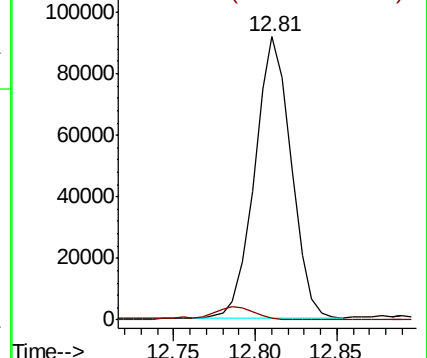
91 100

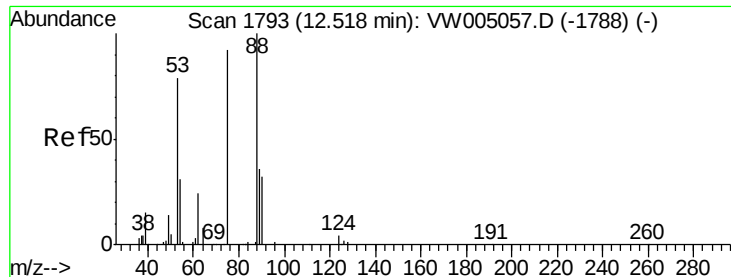
126 0.0 17.3 52.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

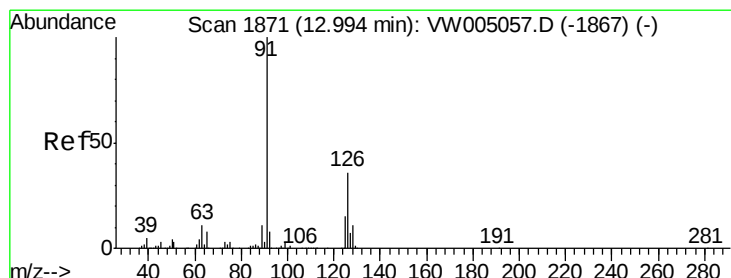
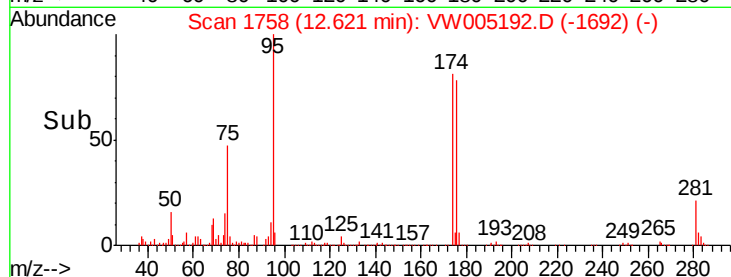
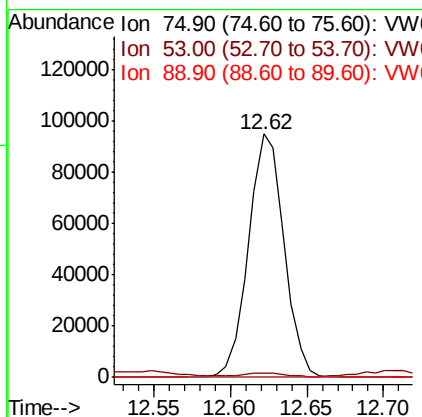
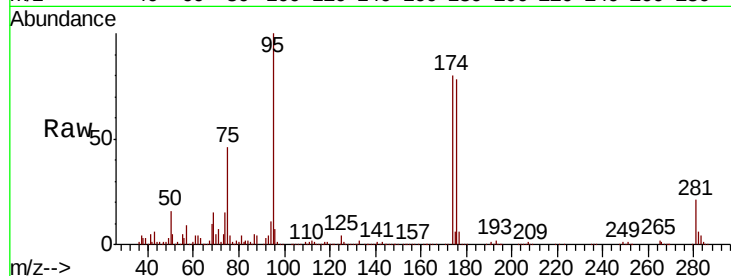




#81
trans-1,4-Dichloro-2-butene
Concen: 133.572 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

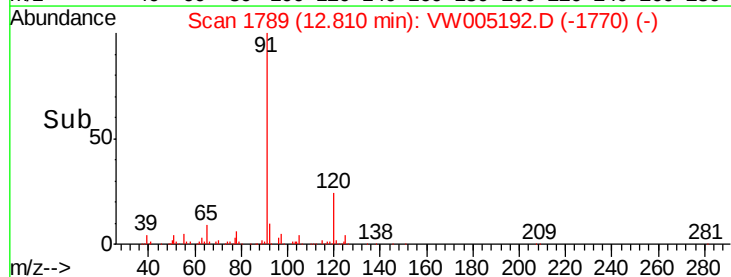
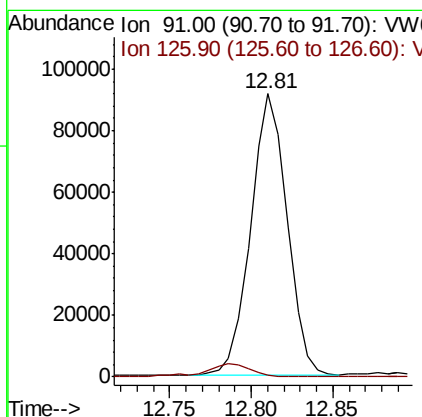
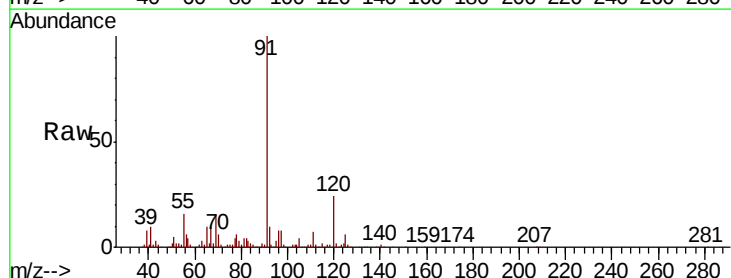
Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

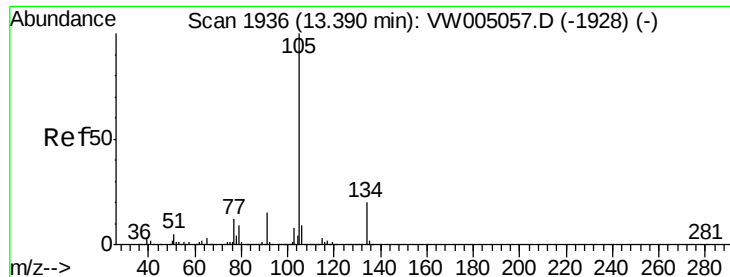
Tgt Ion: 75 Resp: 153339
Ion Ratio Lower Upper
75 100
53 1.7 69.8 104.8#
89 0.1 36.0 54.0#



#82
4-Chlorotoluene
Concen: 7.346 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.18 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion: 91 Resp: 141793
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.3#

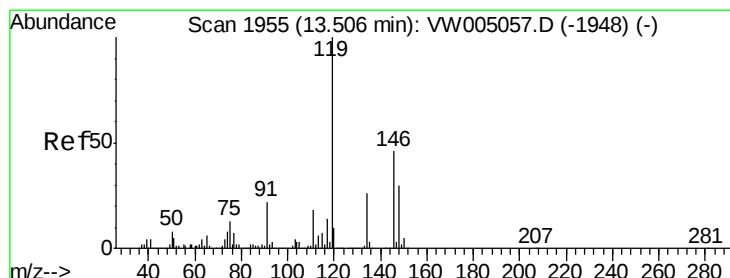
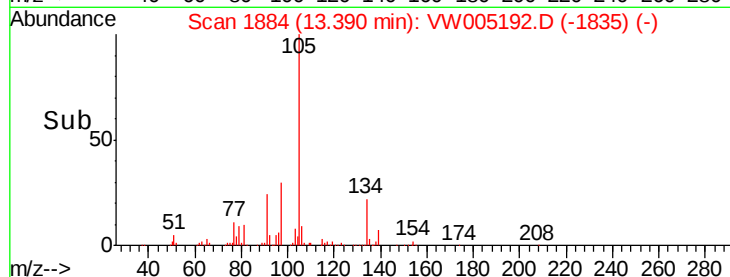
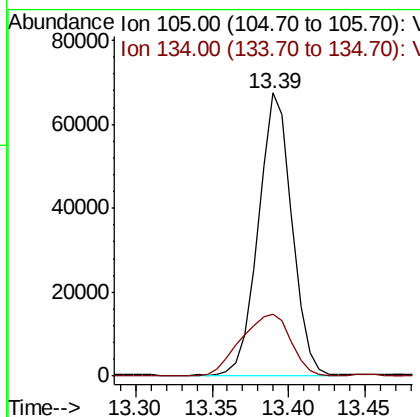
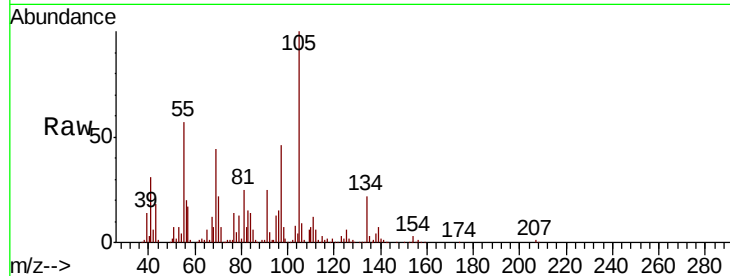




#85
 sec-Butylbenzene
 Concen: 3.740 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005192.D
 Acq: 07 Sep 2018 05:30

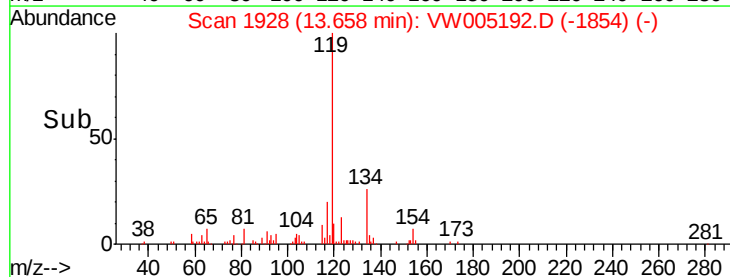
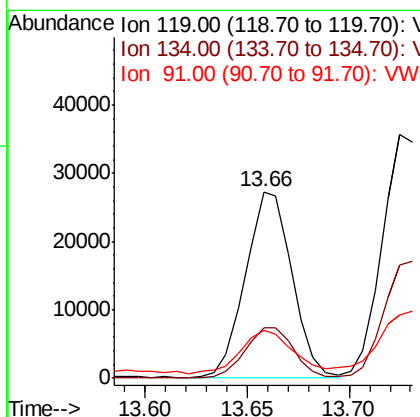
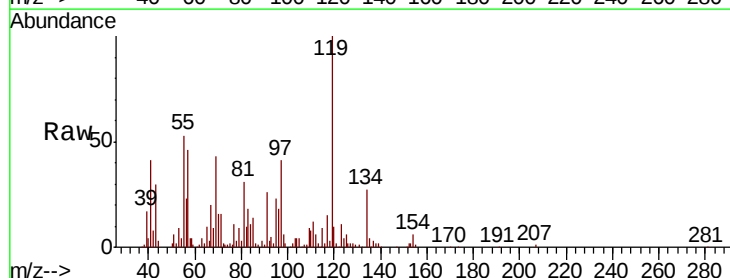
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-MW-FD01RE

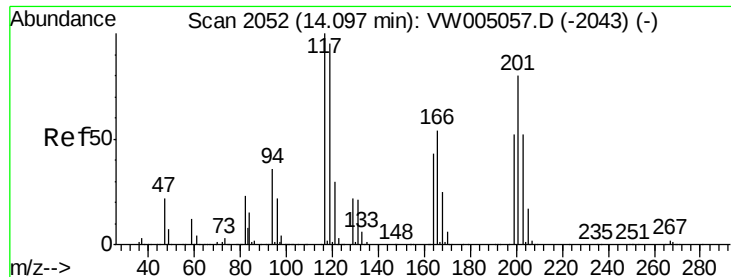
Tgt Ion:105 Resp: 103023
 Ion Ratio Lower Upper
 105 100
 134 32.4 10.1 30.3#



#86
 p-Isopropyltoluene
 Concen: 1.755 ug/l
 RT: 13.66 min Scan# 1928
 Delta R.T. 0.15 min
 Lab File: VW005192.D
 Acq: 07 Sep 2018 05:30

Tgt Ion:119 Resp: 42803
 Ion Ratio Lower Upper
 119 100
 134 28.6 13.3 39.8
 91 25.7 10.9 32.9

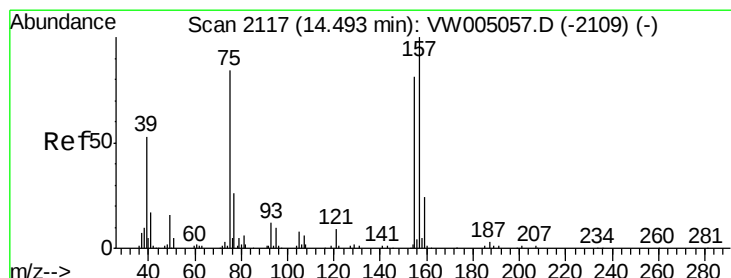
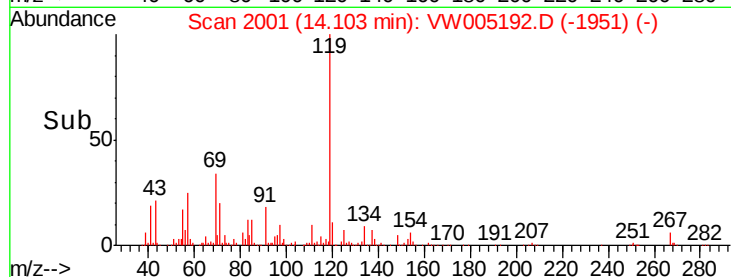
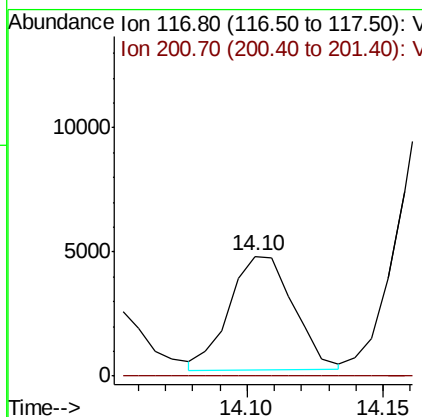
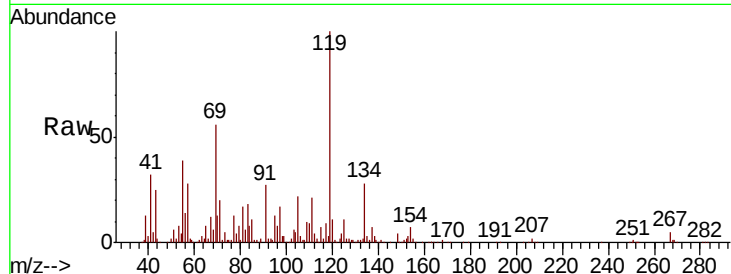




#90
Hexachloroethane
Concen: 1.841 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

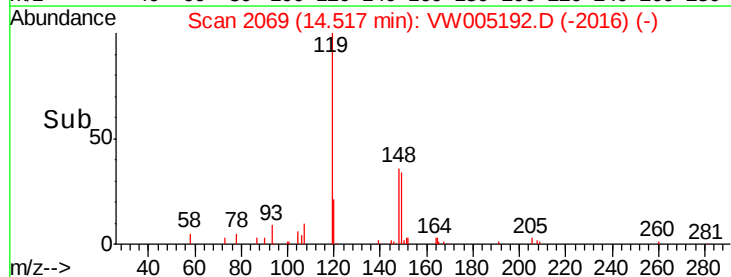
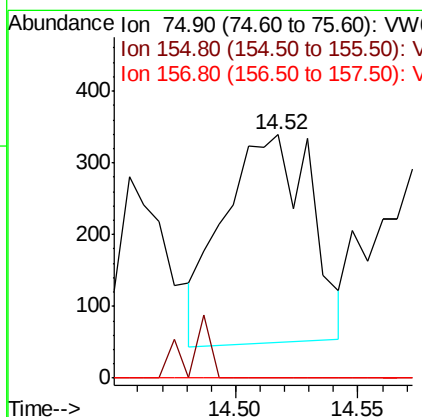
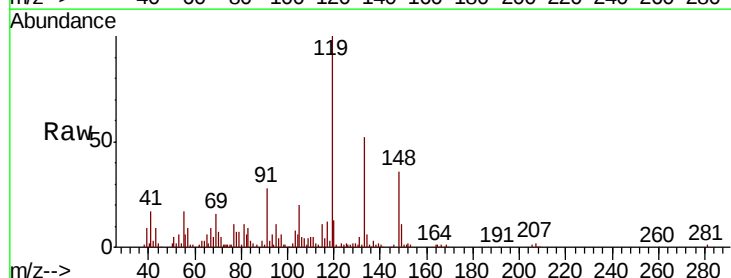
Instrument :
MSVOA_W
ClientSampleId :
EP1-MW-FD01RE

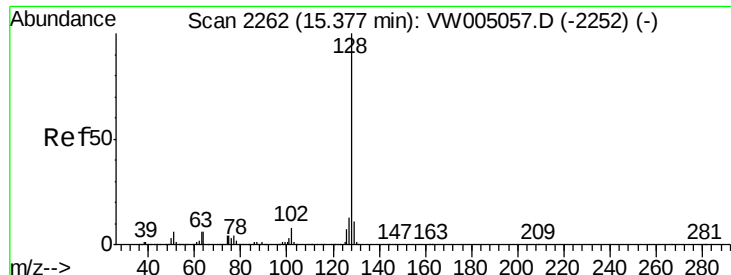
Tgt Ion:117 Resp: 7455
Ion Ratio Lower Upper
117 100
201 0.0 44.6 133.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.163 ug/l
RT: 14.52 min Scan# 2069
Delta R.T. 0.02 min
Lab File: VW005192.D
Acq: 07 Sep 2018 05:30

Tgt Ion: 75 Resp: 718
Ion Ratio Lower Upper
75 100
155 0.0 46.0 137.8#
157 0.0 58.6 175.7#

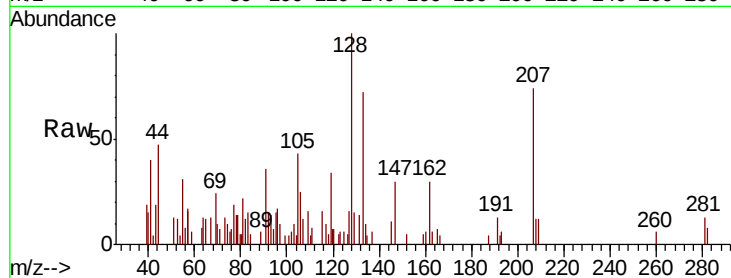




#95
 Naphthalene
 Concen: 4.152 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.00 min
 Lab File: VW005192.D
 Acq: 07 Sep 2018 05:30

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-MW-FD01RE

Tgt Ion:128 Resp: 2485
 Ion Ratio Lower Upper
 128 100
 127 17.7 10.4 15.6#
 129 0.0 8.7 13.1#



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

