

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW061518\
 Data File : VW003280.D
 Acq On : 15 Jun 2018 02:59
 Operator : VA/AP
 Sample : J3458-02
 Misc : 5.27G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EPE-105-5(5-10)

Quant Time: Jun 15 06:50:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 08:20:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	87440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	146679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	149028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	81018	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	44373	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	
35) Dibromofluoromethane	7.89	113	38323	42.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.10%	
50) Toluene-d8	10.33	98	125783	34.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.60%	
62) 4-Bromofluorobenzene	12.63	95	54092	42.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.58%	

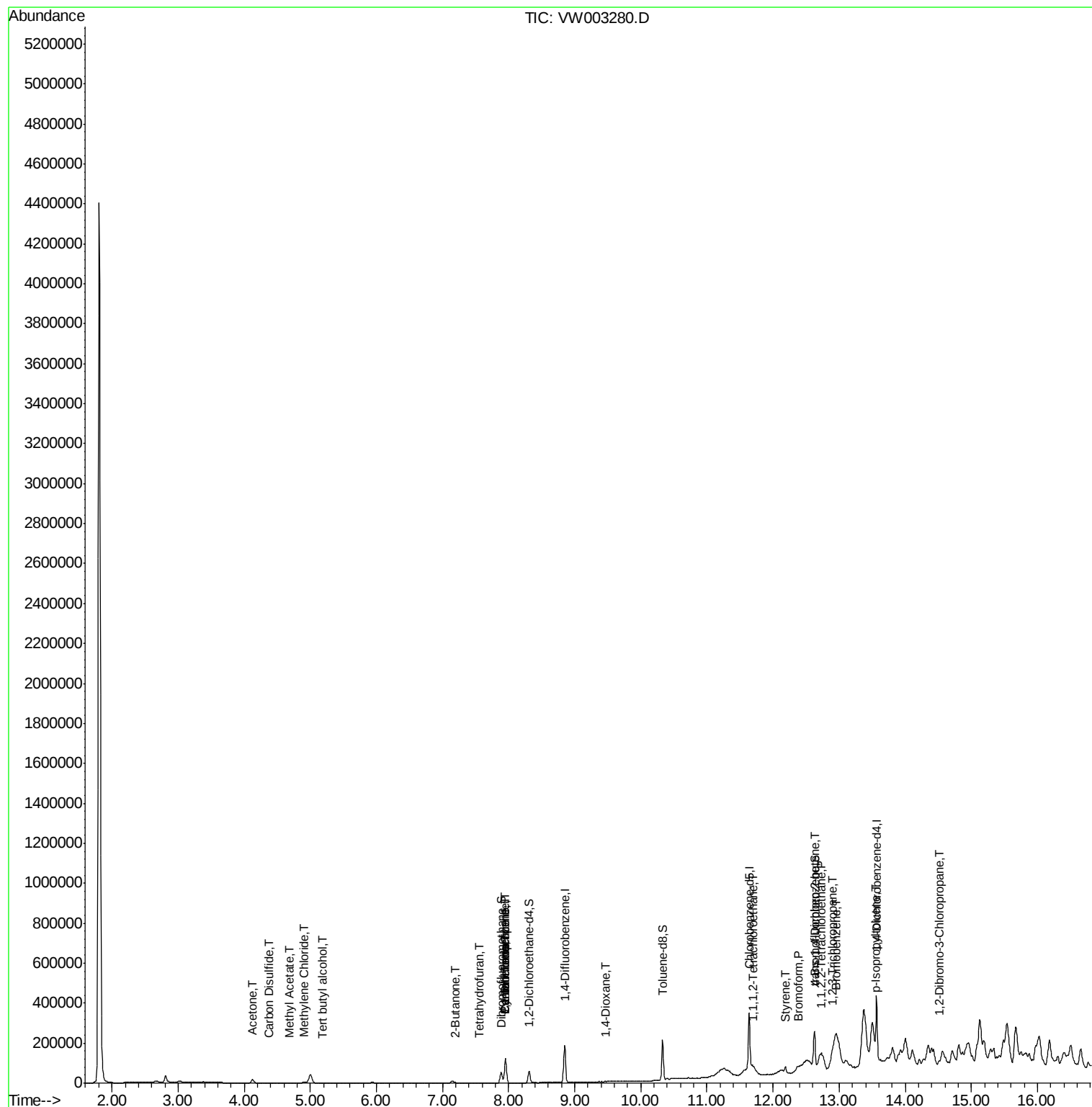
Target Compounds						Qvalue
11) Tert butyl alcohol	5.18	59	218	4.292	ug/l #	40
16) Acetone	4.12	43	29315	147.581	ug/l	95
17) Carbon Disulfide	4.37	76	2448	1.046	ug/l #	87
18) Methyl Acetate	4.68	43	2621	5.562	ug/l #	58
20) Methylene Chloride	4.90	84	4029	1.192	ug/l	92
25) 2-Butanone	7.20	43	3517	14.239	ug/l	93
29) Tetrahydrofuran	7.55	42	273	1.808	ug/l #	61
31) Cyclohexane	7.95	56	2345	1.532	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	7406	5.228	ug/l #	51
38) Carbon Tetrachloride	7.95	117	9134	6.574	ug/l #	17
49) 1,4-Dioxane	9.46	88	70	9.108	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	11.70	131	2167	1.987	ug/l #	11
70) Styrene	12.19	104	13935	4.320	ug/l	93
71) Bromoform	12.38	173	1276	2.258	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.73	83	27641	28.994	ug/l #	27
76) 1,2,3-Trichloropropane	12.89	75	1170	1.689	ug/l #	100
77) Bromobenzene	12.94	156	264740	201.728	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	30538	101.456	ug/l #	8
86) p-Isopropyltoluene	13.54	119	6658	1.260	ug/l #	51
92) 1,2-Dibromo-3-Chloropropan	14.51	75	177	1.103	ug/l #	4

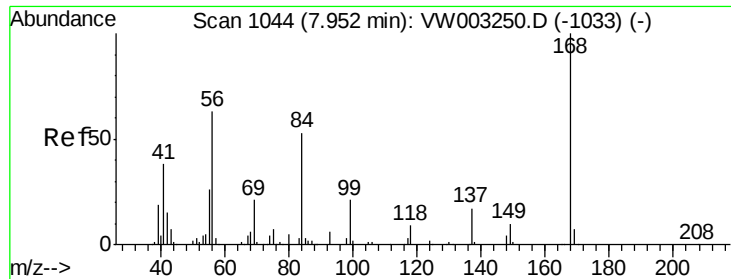
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

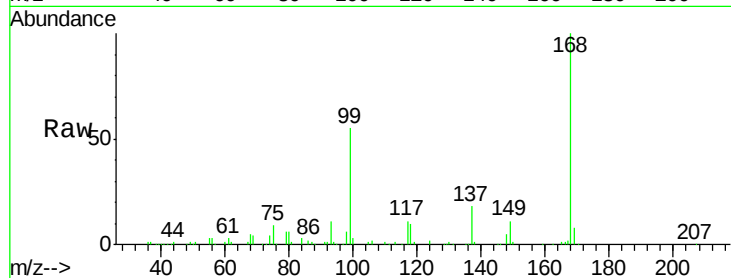
EPE-105-5(5-10)

Tgt Ion:168 Resp: 87440

Ion Ratio Lower Upper

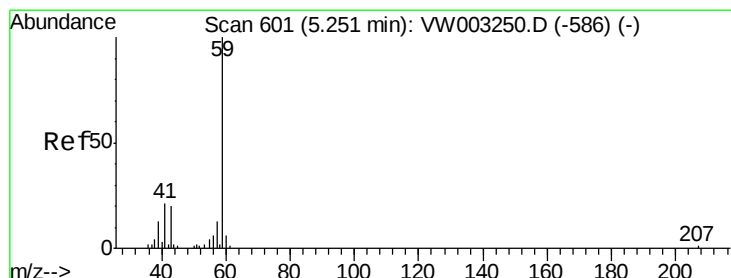
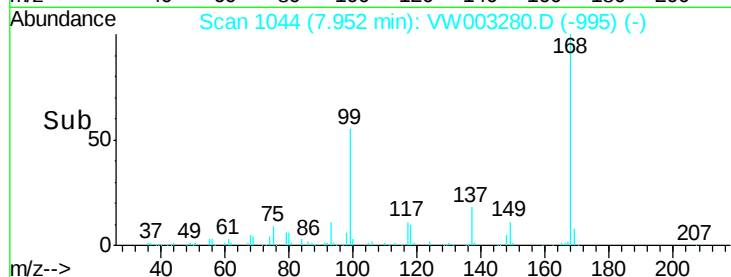
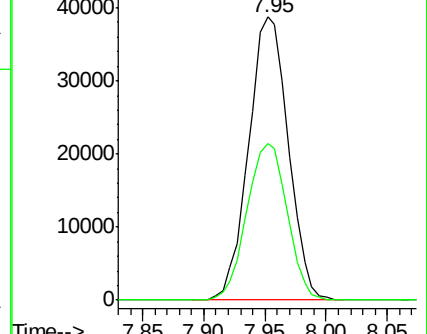
168 100

99 55.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 4.292 ug/l

RT: 5.18 min Scan# 589

Delta R.T. -0.07 min

Lab File: VW003280.D

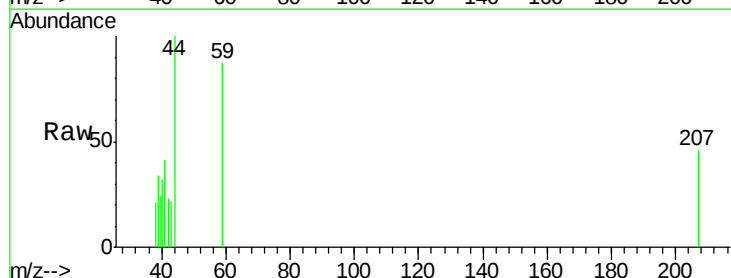
Acq: 15 Jun 2018 02:59

Tgt Ion: 59 Resp: 218

Ion Ratio Lower Upper

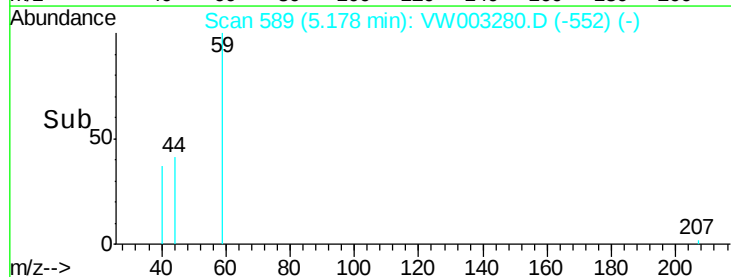
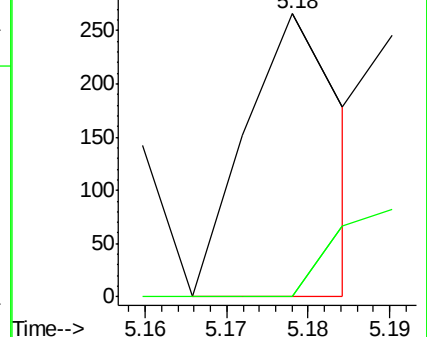
59 100

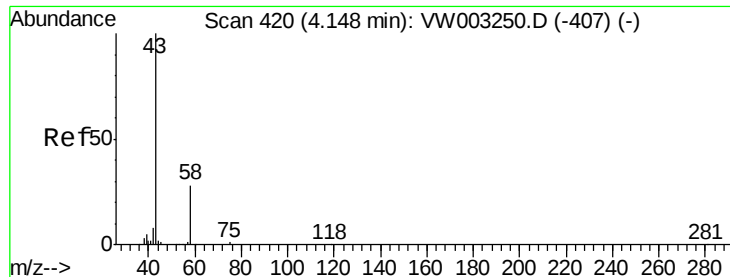
57 25.2 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 147.581 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.02 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

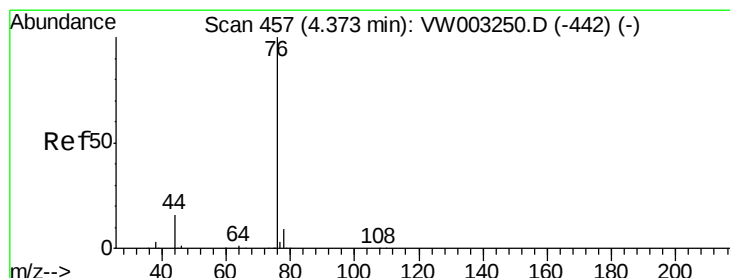
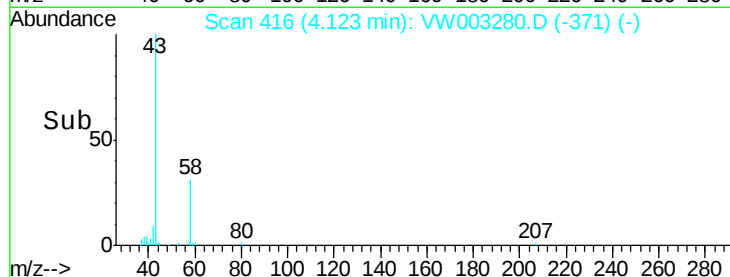
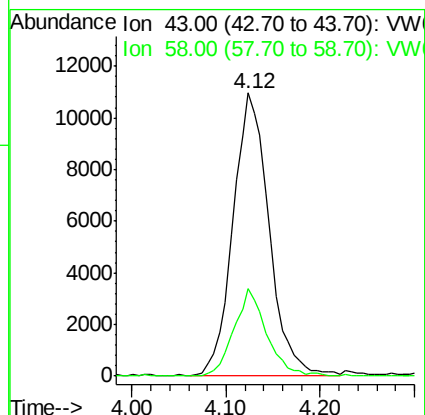
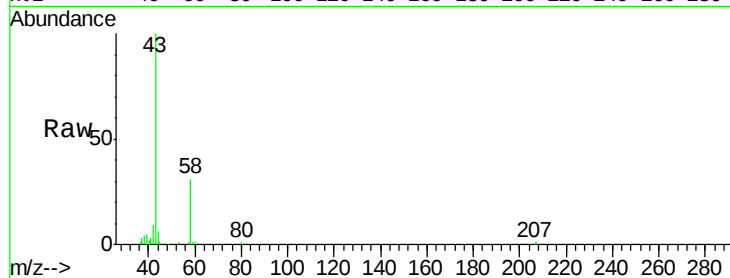
EPE-105-5(5-10)

Tgt Ion: 43 Resp: 29315

Ion Ratio Lower Upper

43 100

58 30.8 22.6 34.0



#17

Carbon Disulfide

Concen: 1.046 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW003280.D

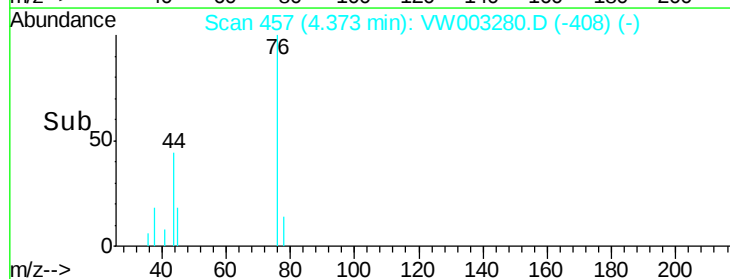
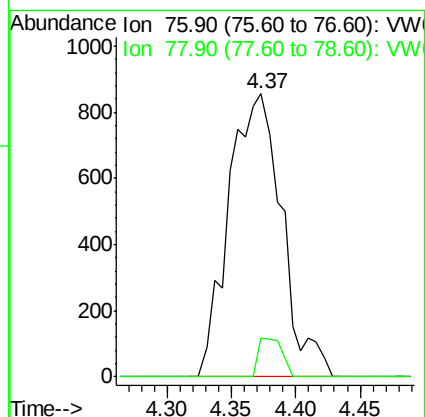
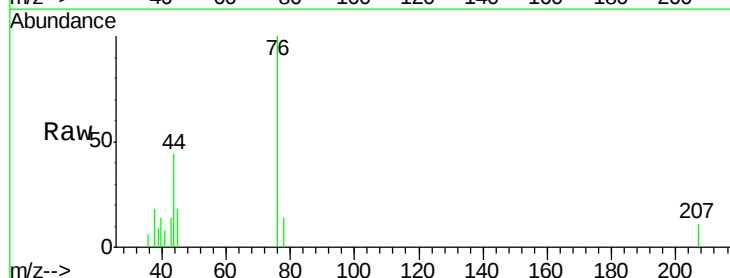
Acq: 15 Jun 2018 02:59

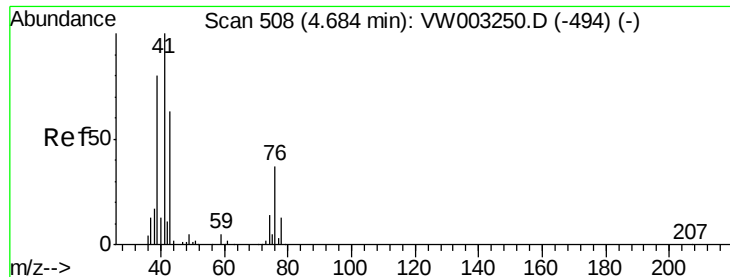
Tgt Ion: 76 Resp: 2448

Ion Ratio Lower Upper

76 100

78 13.7 7.1 10.7#

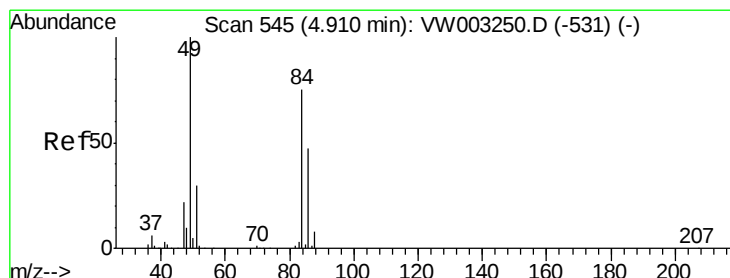
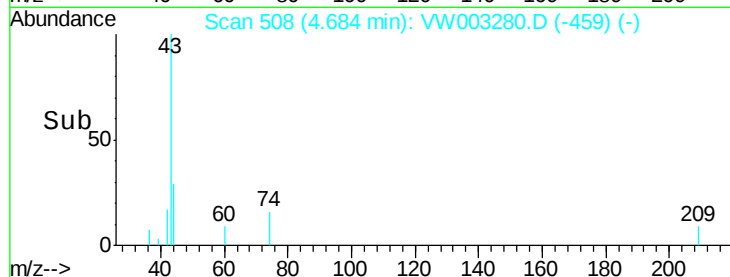
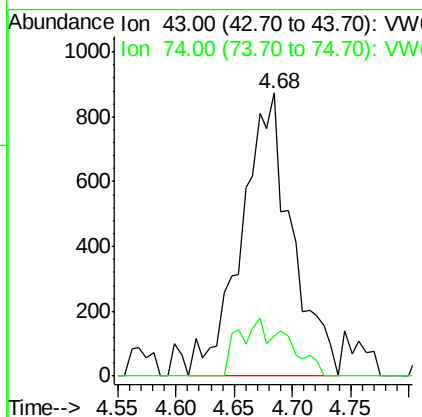
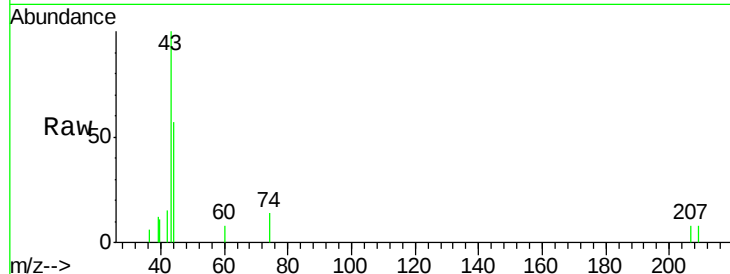




#18
Methyl Acetate
Concen: 5.562 ug/l
RT: 4.68 min Scan# 508
Delta R.T. 0.00 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

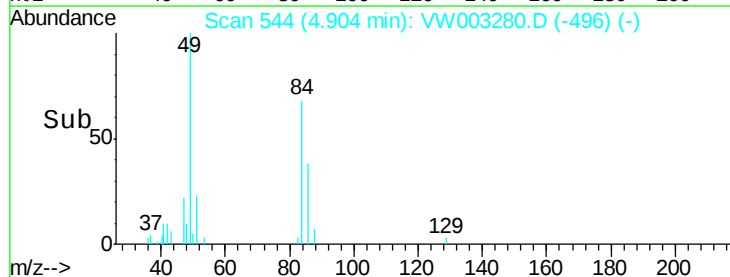
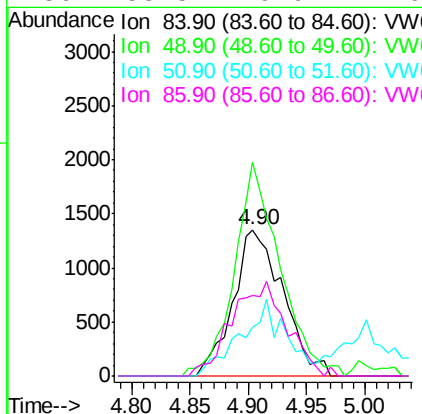
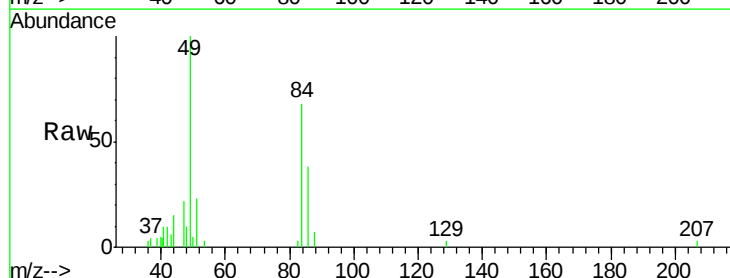
Instrument :
MSVOA_W
ClientSampleId :
EPE-105-5(5-10)

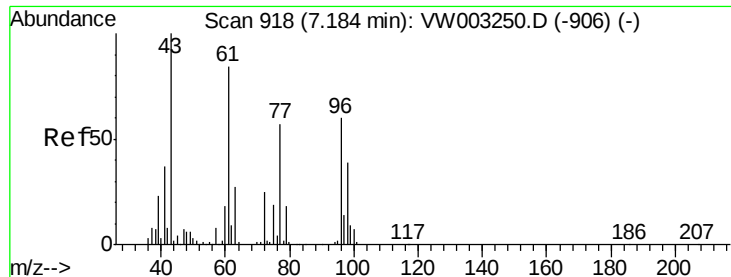
Tgt Ion: 43 Resp: 2621
Ion Ratio Lower Upper
43 100
74 3.1 18.7 28.1#



#20
Methylene Chloride
Concen: 1.192 ug/l
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

Tgt Ion: 84 Resp: 4029
Ion Ratio Lower Upper
84 100
49 140.9 106.3 159.5
51 32.9 32.0 48.0
86 55.5 49.9 74.9





#25

2-Butanone

Concen: 14.239 ug/l

RT: 7.20 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

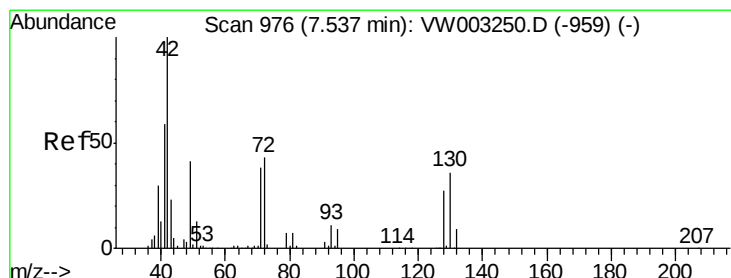
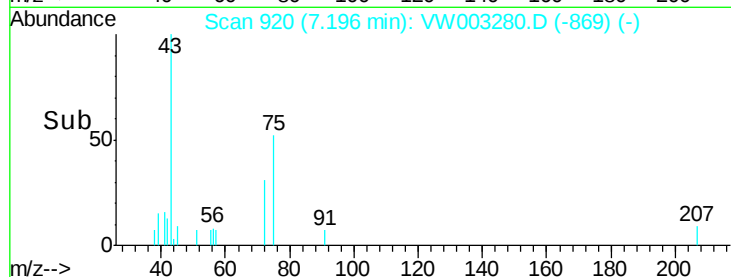
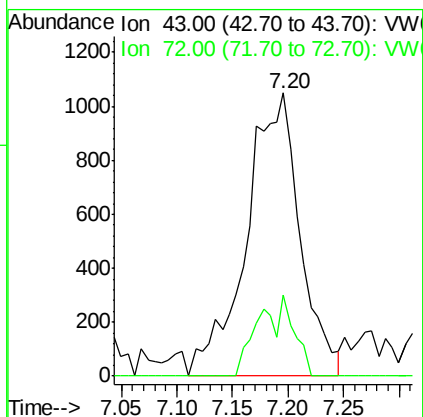
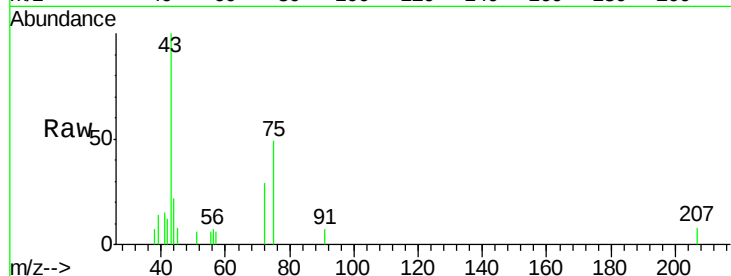
EPE-105-5(5-10)

Tgt Ion: 43 Resp: 3517

Ion Ratio Lower Upper

43 100

72 28.7 20.3 30.5



#29

Tetrahydrofuran

Concen: 1.808 ug/l

RT: 7.55 min Scan# 978

Delta R.T. 0.01 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

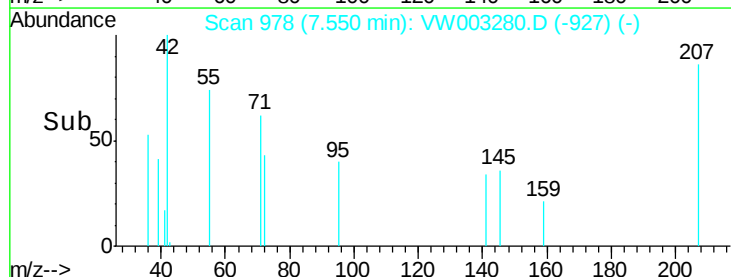
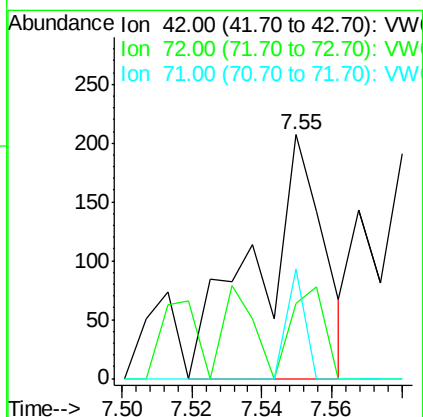
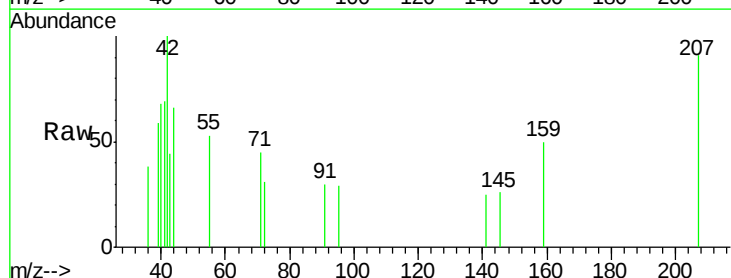
Tgt Ion: 42 Resp: 273

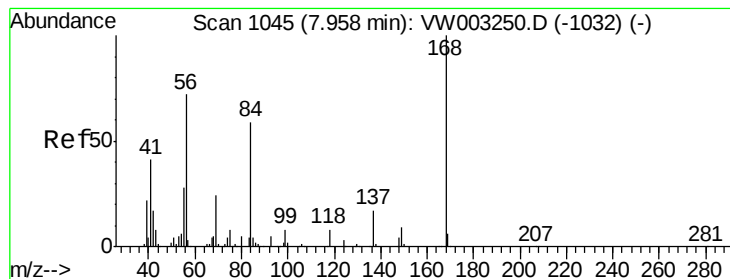
Ion Ratio Lower Upper

42 100

72 19.0 32.4 48.6#

71 12.5 31.2 46.8#





#31

Cyclohexane

Concen: 1.532 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(5-10)

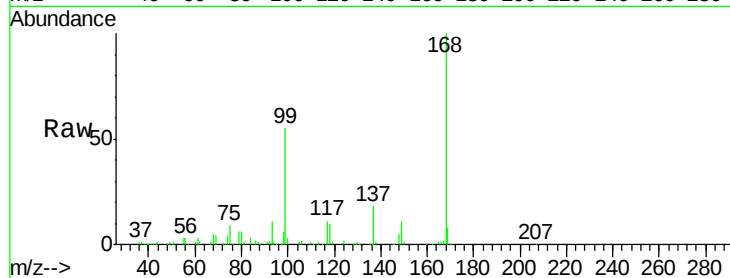
Tgt Ion: 56 Resp: 2345

Ion Ratio Lower Upper

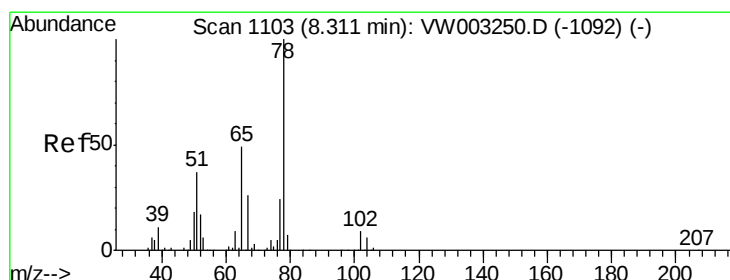
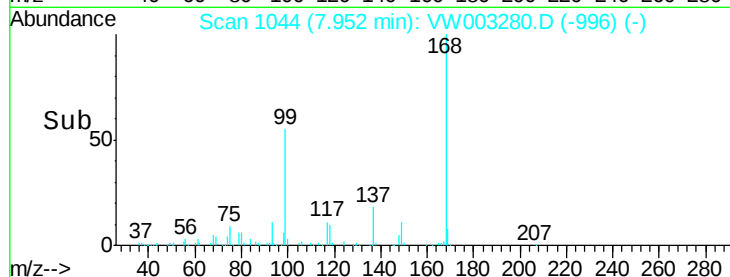
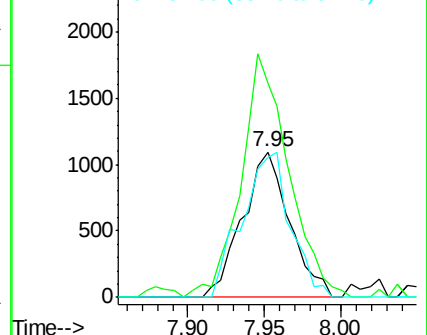
56 100

69 142.5 26.3 39.5#

84 96.4 65.7 98.5



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: 46.851 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003280.D

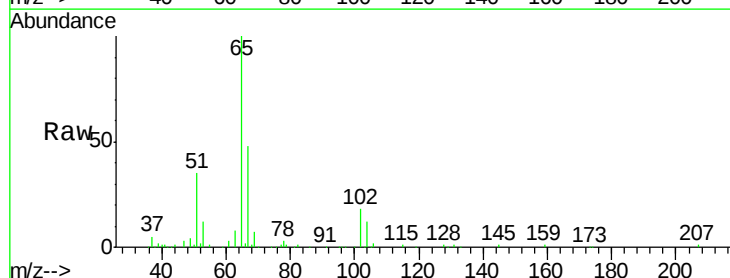
Acq: 15 Jun 2018 02:59

Tgt Ion: 65 Resp: 44373

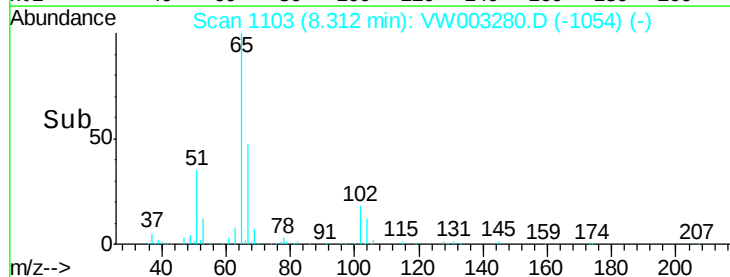
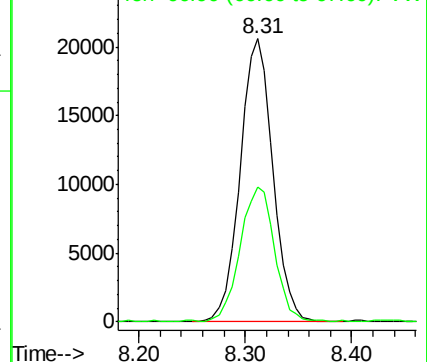
Ion Ratio Lower Upper

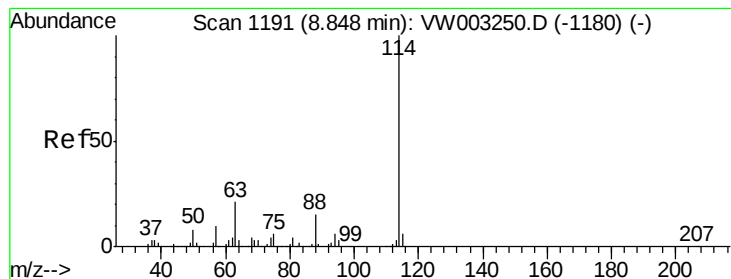
65 100

67 50.6 0.0 104.2



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# 1191

Delta R.T. 0.00 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

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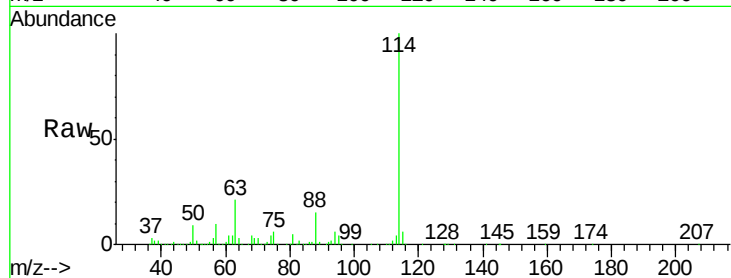
Tgt Ion:114 Resp: 146679

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.0

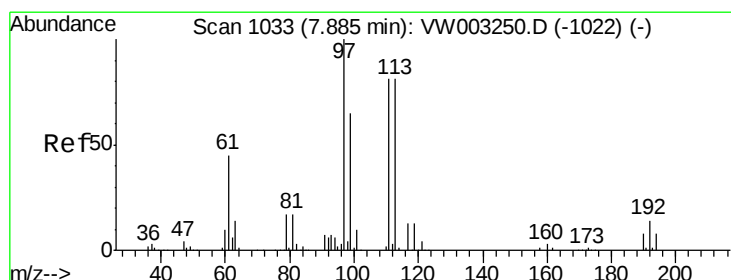
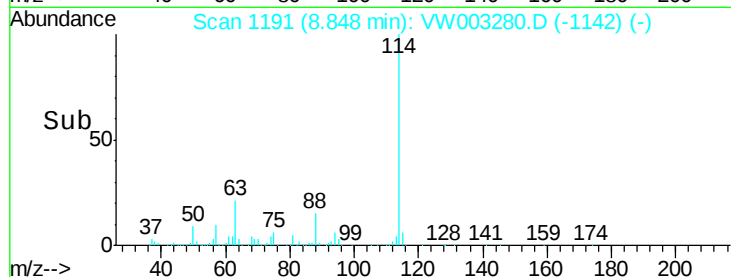
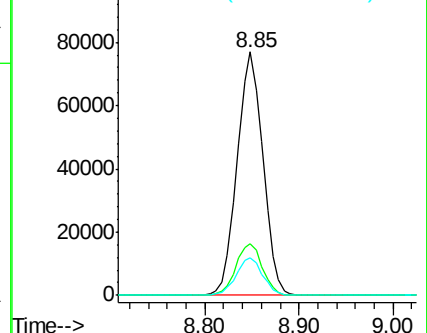
88 15.4 0.0 29.6



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: 42.048 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

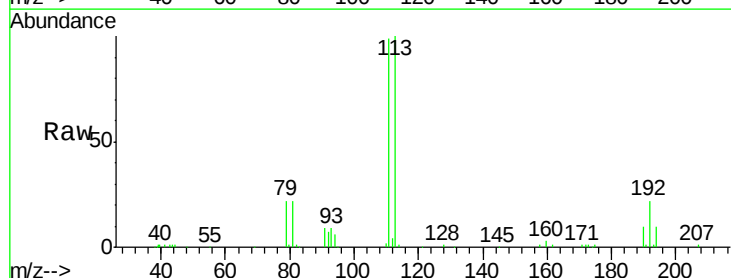
Tgt Ion:113 Resp: 38323

Ion Ratio Lower Upper

113 100

111 100.7 82.2 123.2

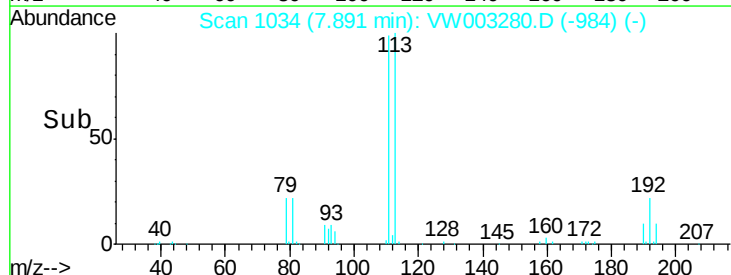
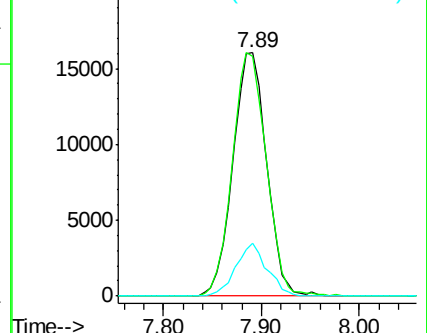
192 20.1 16.2 24.2

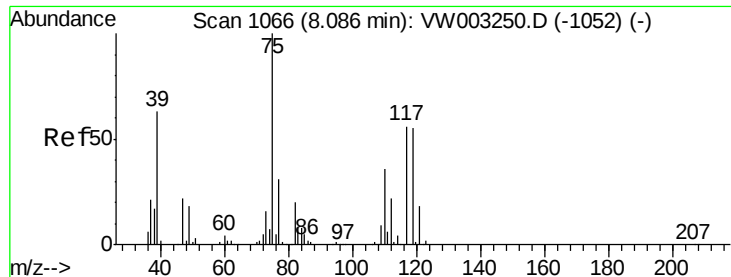


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

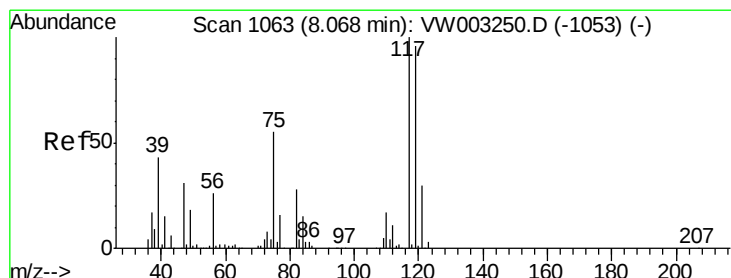
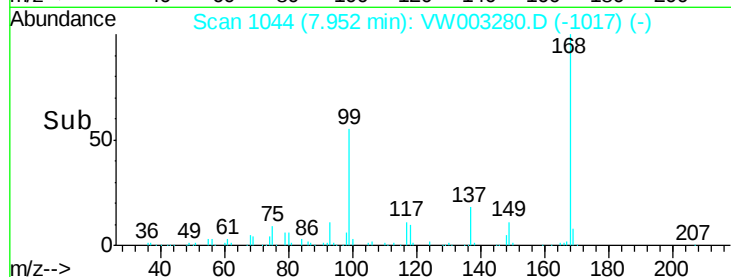
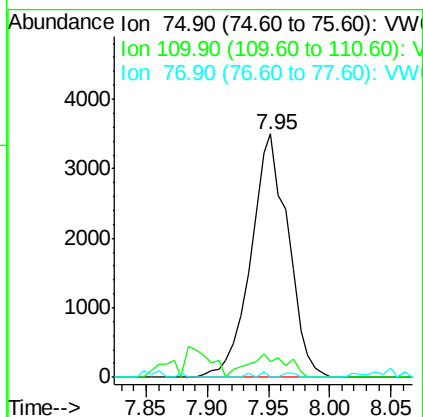
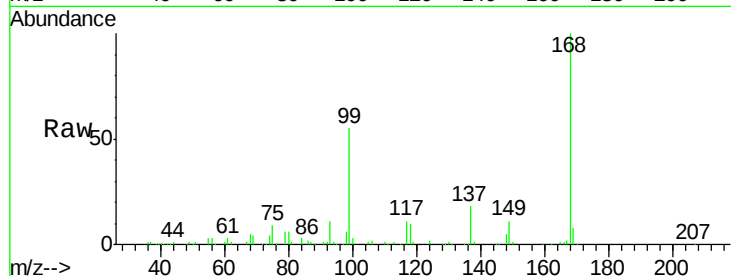




#36
 1,1-Dichloropropene
 Concen: 5.228 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW003280.D
 Acq: 15 Jun 2018 02:59

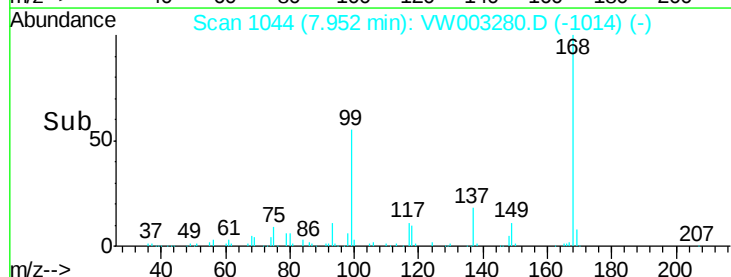
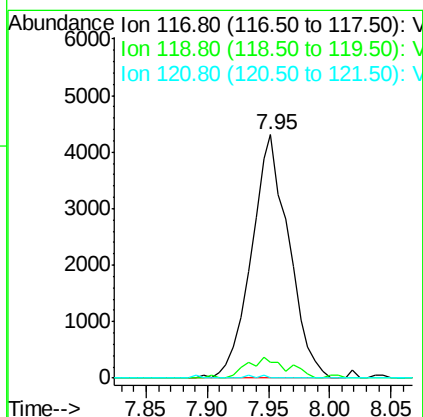
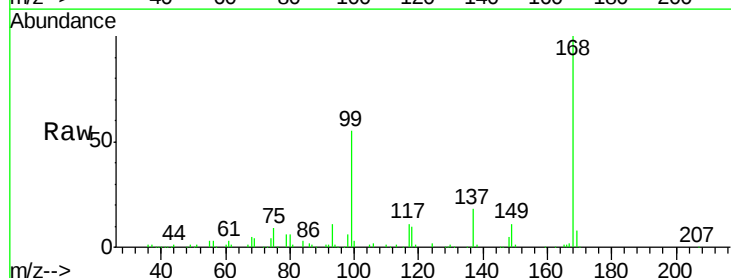
Instrument :
 MSVOA_W
 ClientSampleId :
 EPE-105-5(5-10)

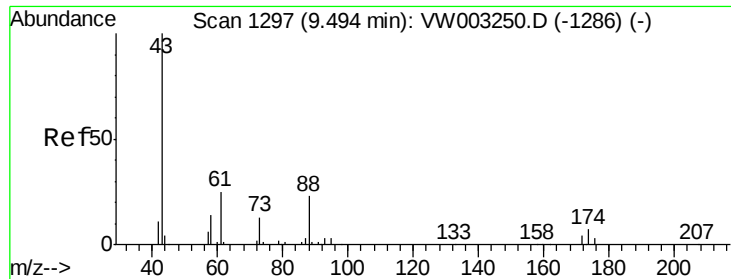
Tgt Ion: 75 Resp: 7406
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.1 51.3#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.574 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.12 min
 Lab File: VW003280.D
 Acq: 15 Jun 2018 02:59

Tgt Ion: 117 Resp: 9134
 Ion Ratio Lower Upper
 117 100
 119 6.4 76.6 115.0#
 121 0.0 23.9 35.9#

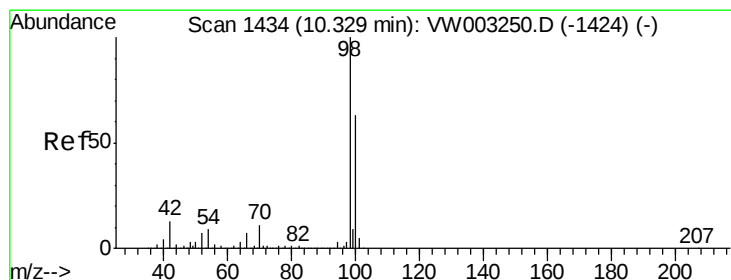
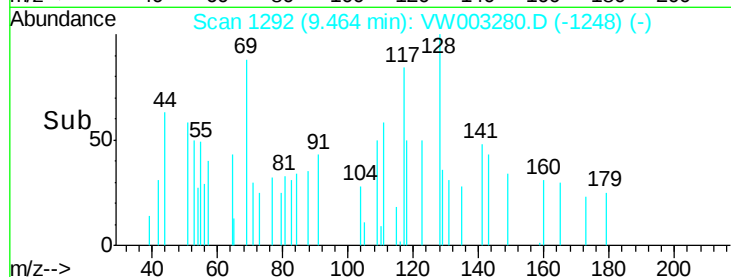
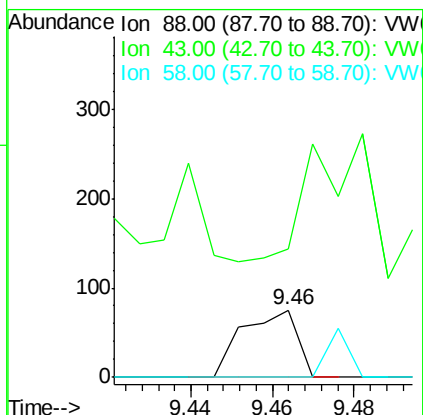
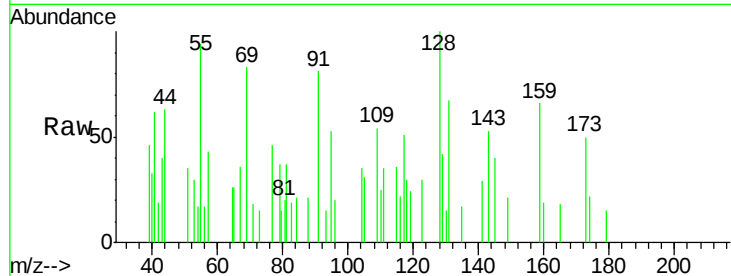




#49
1,4-Dioxane
Concen: 9.108 ug/l
RT: 9.46 min Scan# 1292
Delta R.T. -0.03 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

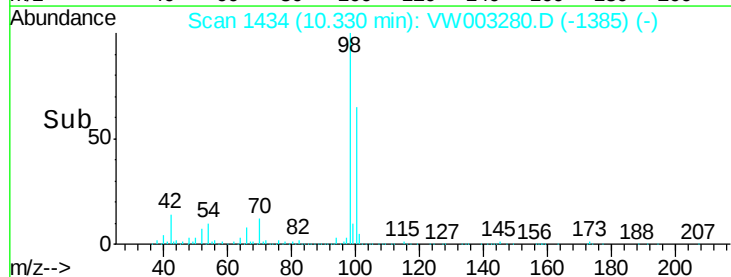
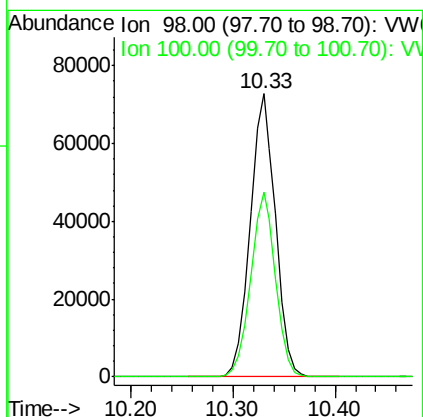
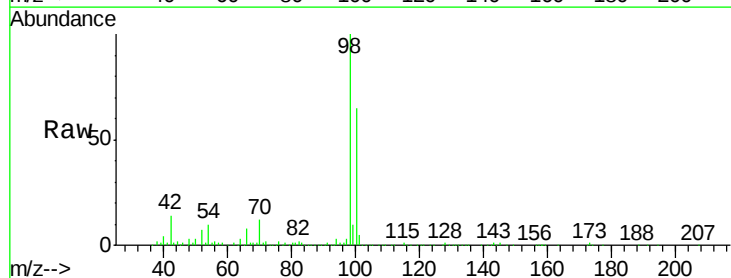
Instrument :
MSVOA_W
ClientSampleId :
EPE-105-5(5-10)

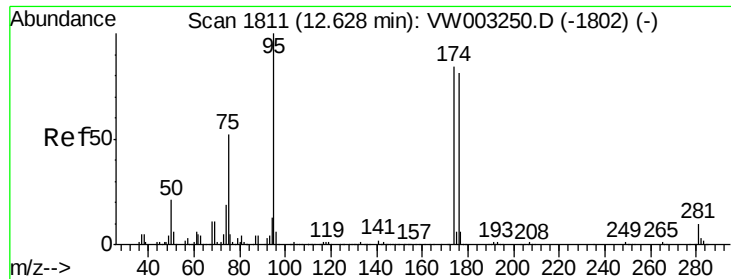
Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 204.3 454.7 682.1#
58 28.6 58.6 88.0#



#50
Toluene-d8
Concen: 34.805 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

Tgt Ion: 98 Resp: 125783
Ion Ratio Lower Upper
98 100
100 63.9 50.8 76.2

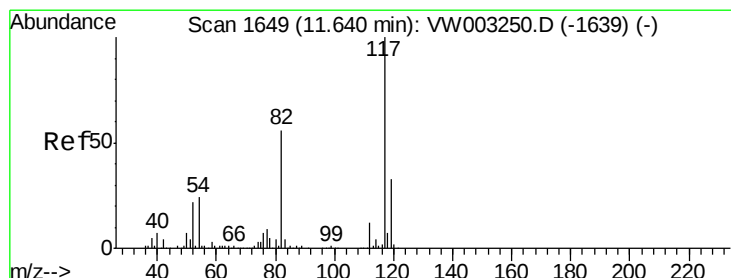
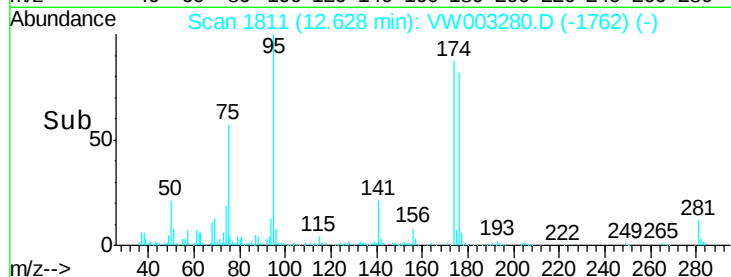
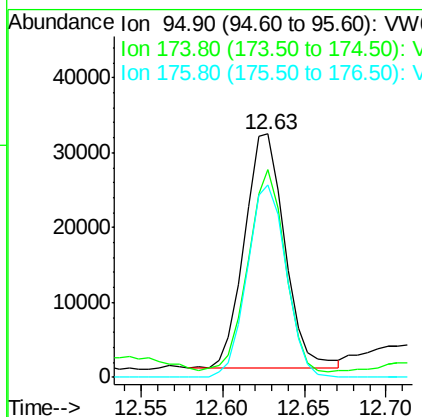
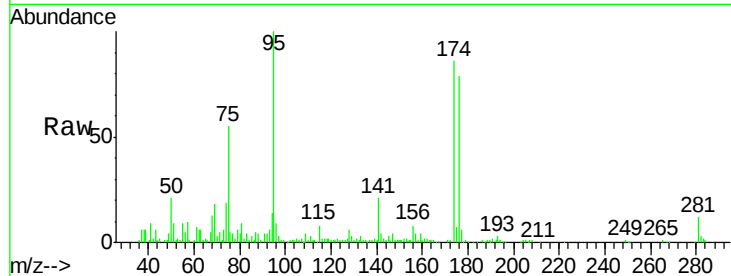




#62
4-Bromofluorobenzene
Concen: 42.294 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

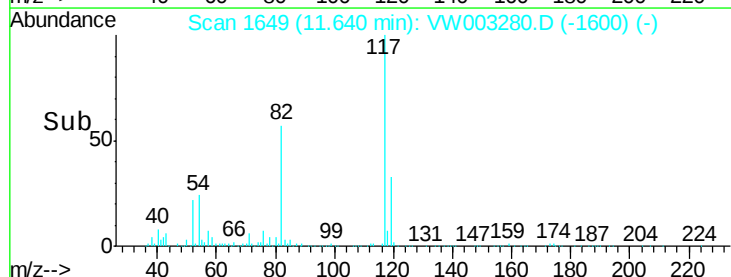
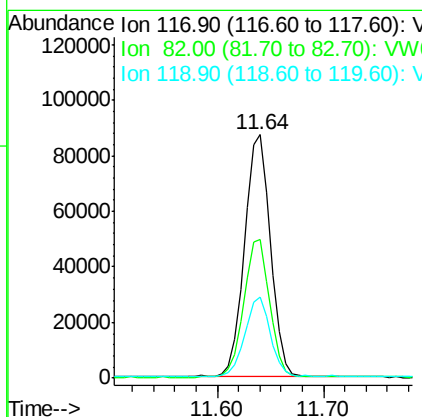
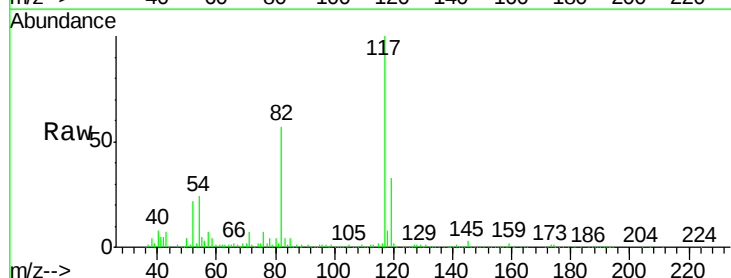
Instrument :
MSVOA_W
ClientSampleId :
EPE-105-5(5-10)

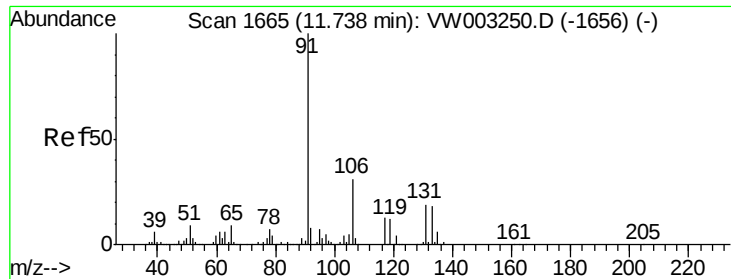
Tgt Ion: 95 Resp: 54092
Ion Ratio Lower Upper
95 100
174 78.8 0.0 166.4
176 79.2 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

Tgt Ion: 117 Resp: 149028
Ion Ratio Lower Upper
117 100
82 57.1 44.6 67.0
119 32.7 26.7 40.1





#66

1,1,1,2-Tetrachloroethane

Concen: 1.987 ug/l

RT: 11.70 min Scan# 1659

Delta R.T. -0.04 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

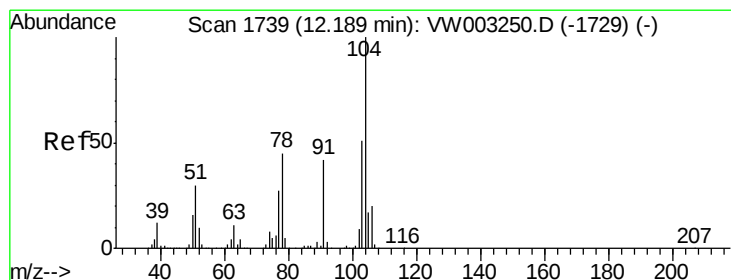
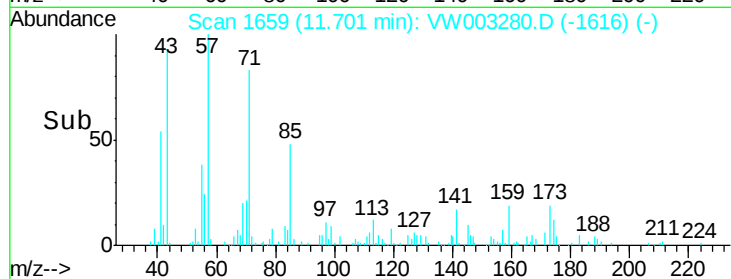
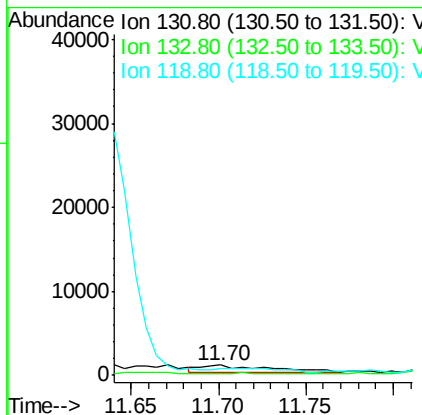
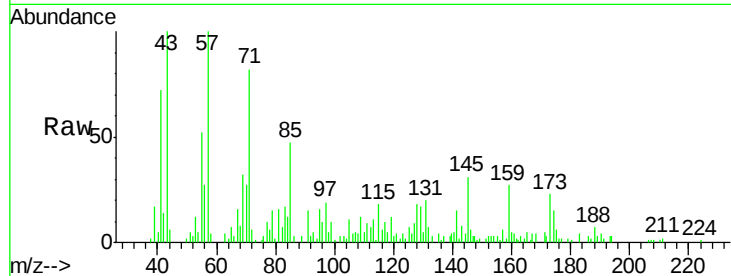
Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(5-10)

Tgt Ion:	131	Resp:	2167
Ion	Ratio	Lower	Upper
131	100		
133	4.3	47.3	142.0#
119	0.0	32.5	97.4#



#70

Styrene

Concen: 4.320 ug/l

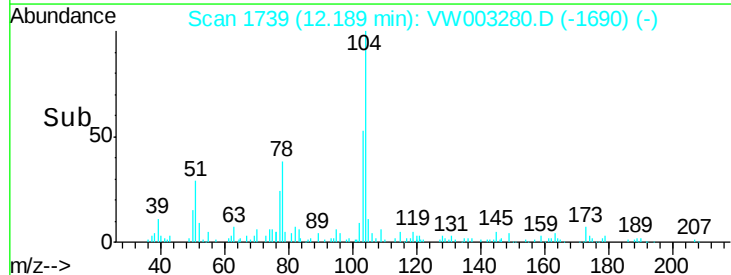
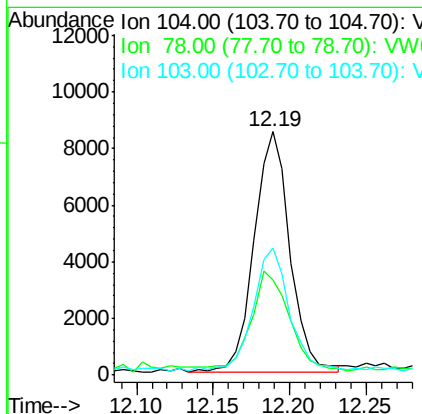
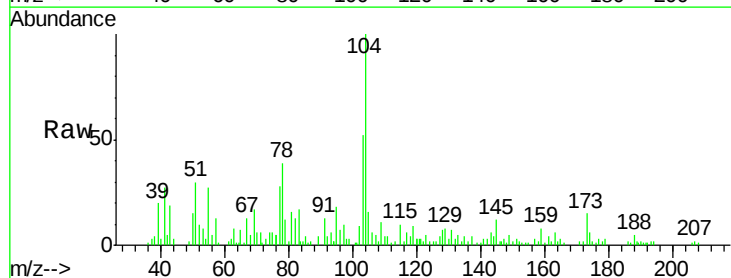
RT: 12.19 min Scan# 1739

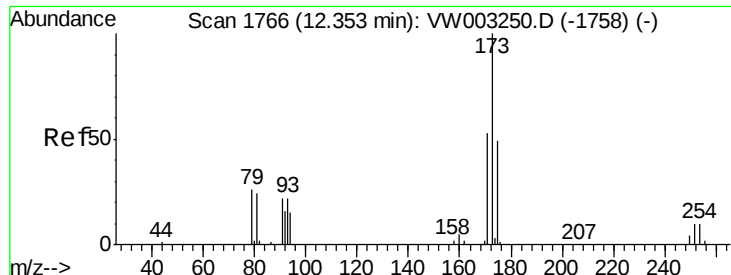
Delta R.T. 0.00 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Tgt Ion:	104	Resp:	13935
Ion	Ratio	Lower	Upper
104	100		
78	45.4	41.3	61.9
103	52.4	45.0	67.4





#71

Bromoform

Concen: 2.258 ug/l

RT: 12.38 min Scan# 1770

Delta R.T. 0.02 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(5-10)

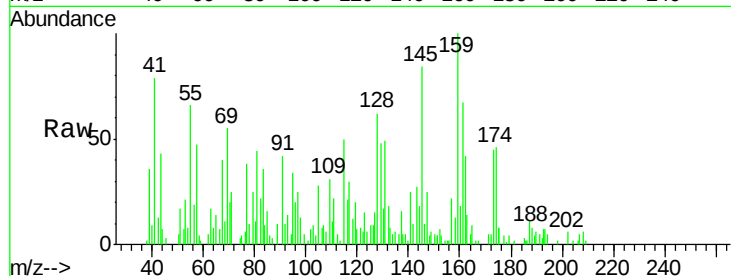
Tgt Ion:173 Resp: 1276

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.4#

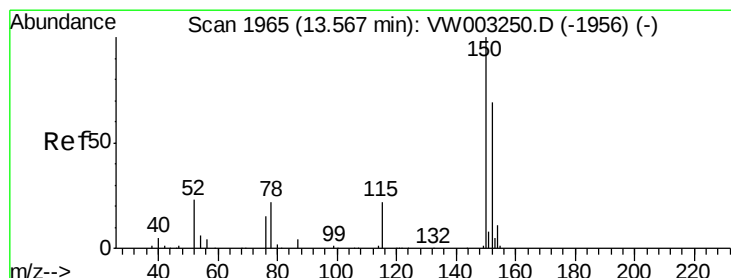
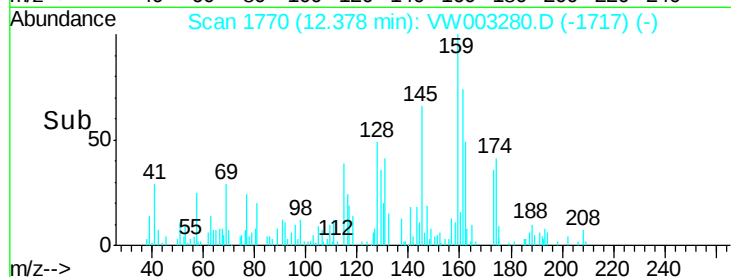
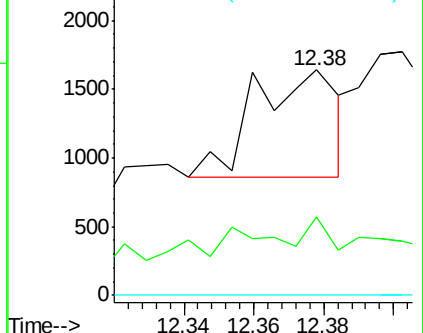
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

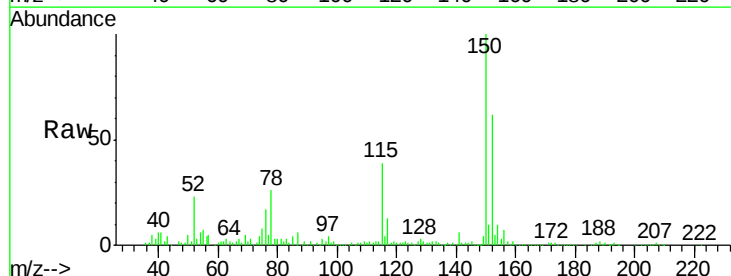
Tgt Ion:152 Resp: 81018

Ion Ratio Lower Upper

152 100

115 62.1 29.3 88.0

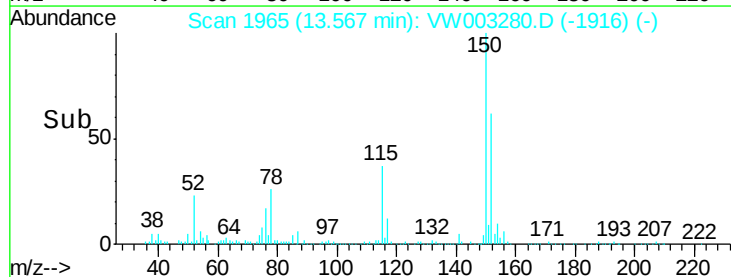
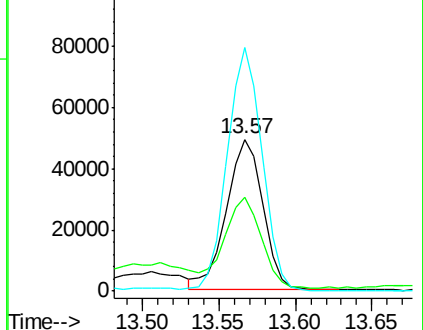
150 155.1 0.0 349.6

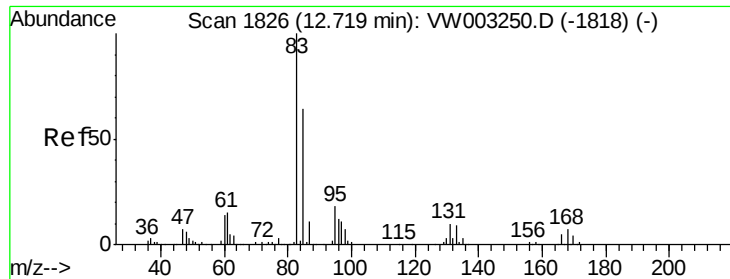


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 28.994 ug/l

RT: 12.73 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(5-10)

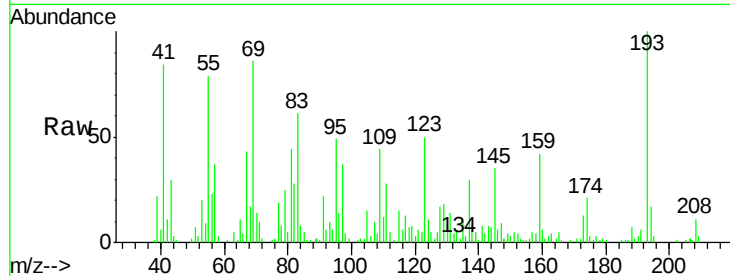
Tgt Ion: 83 Resp: 27641

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

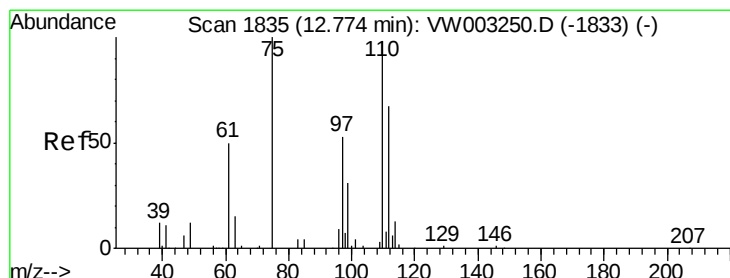
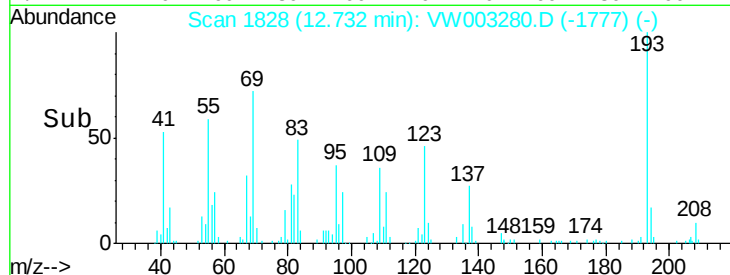
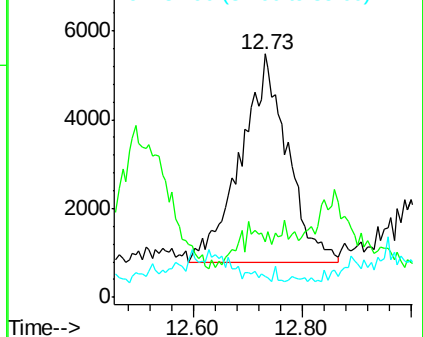
85 0.6 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 1.689 ug/l

RT: 12.89 min Scan# 1854

Delta R.T. 0.12 min

Lab File: VW003280.D

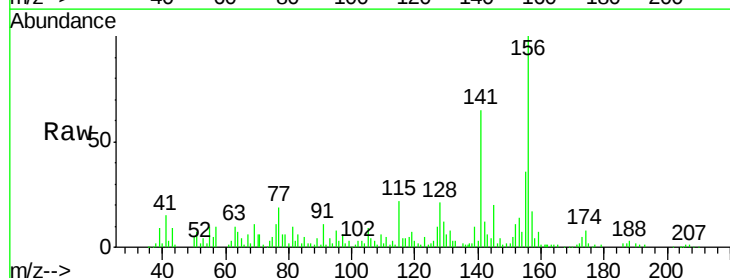
Acq: 15 Jun 2018 02:59

Tgt Ion: 75 Resp: 1170

Ion Ratio Lower Upper

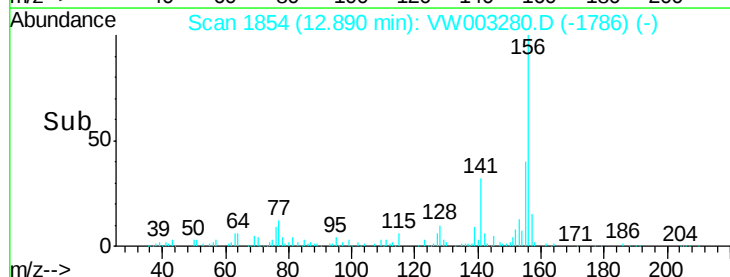
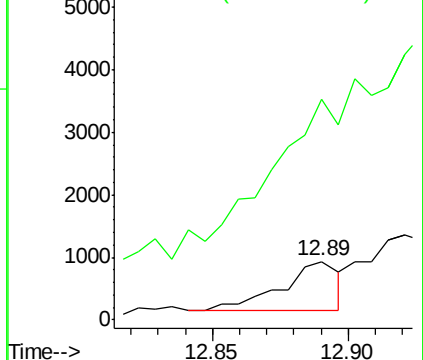
75 100

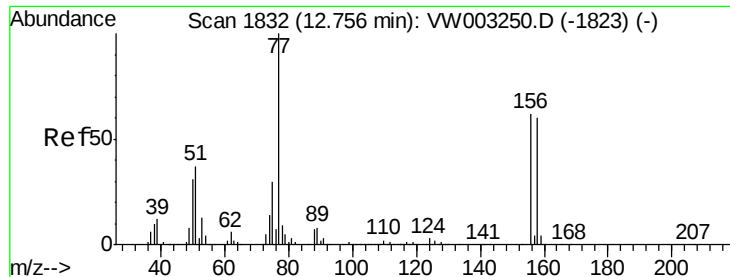
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 201.728 ug/l

RT: 12.94 min Scan# 1863

Delta R.T. 0.19 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(5-10)

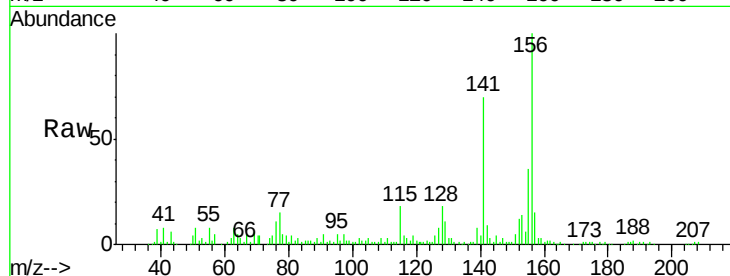
Tgt Ion:156 Resp: 264740

Ion Ratio Lower Upper

156 100

77 8.7 92.3 276.9#

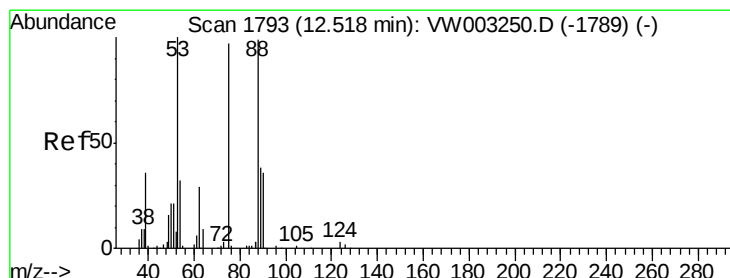
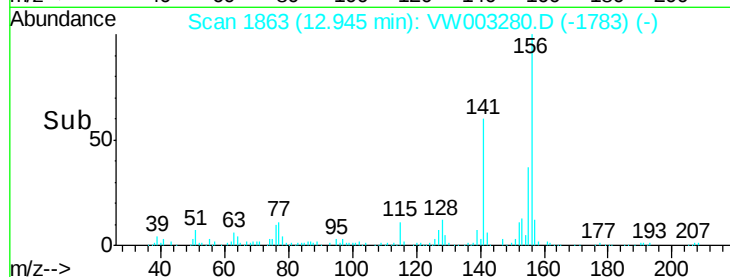
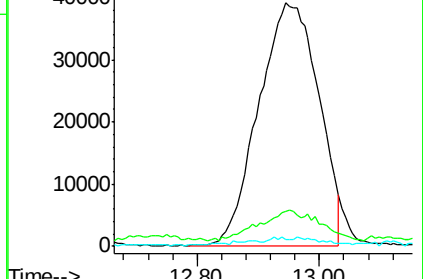
158 0.0 47.5 142.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 101.456 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW003280.D

Acq: 15 Jun 2018 02:59

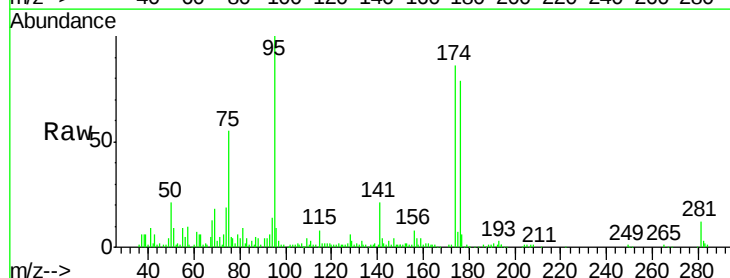
Tgt Ion: 75 Resp: 30538

Ion Ratio Lower Upper

75 100

53 0.0 82.9 124.3#

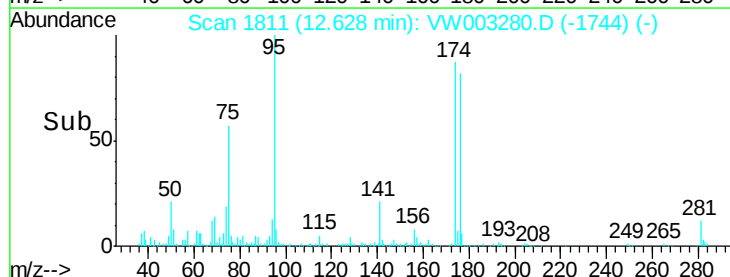
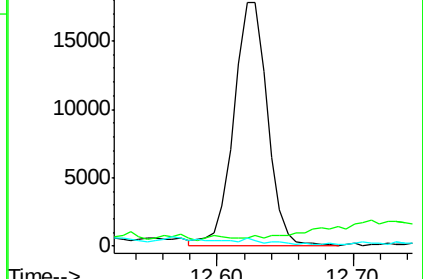
89 0.0 36.7 55.1#

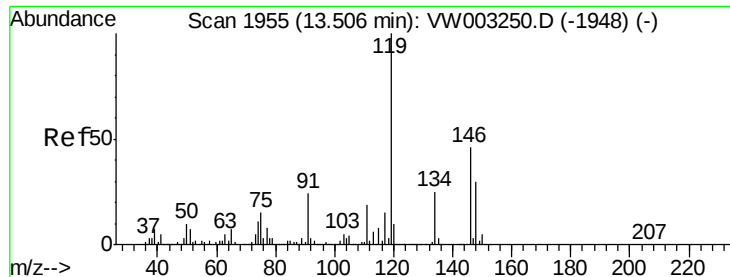


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

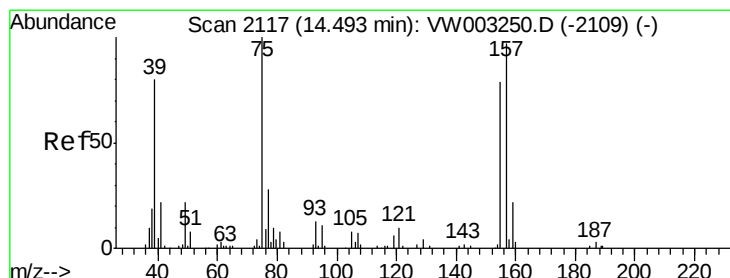
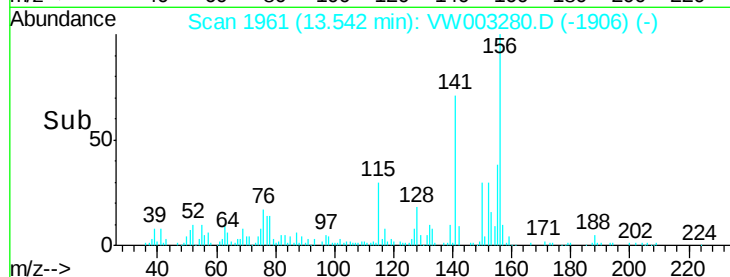
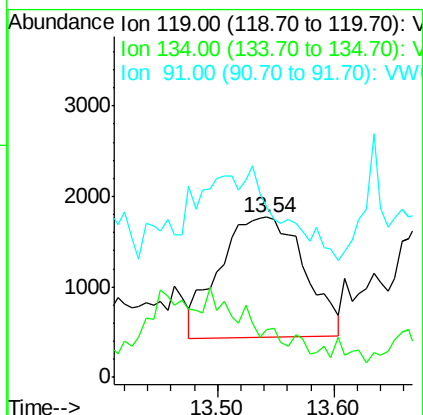
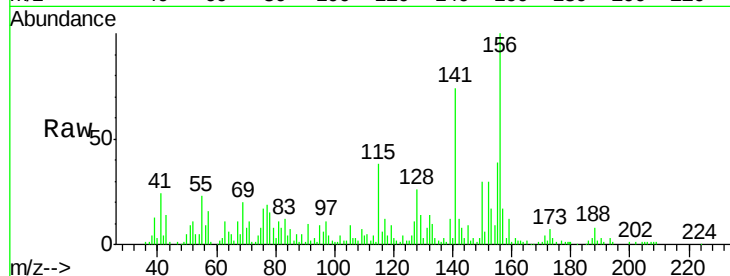




#86
p-Isopropyltoluene
Concen: 1.260 ug/l
RT: 13.54 min Scan# 1961
Delta R.T. 0.04 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

Instrument :
MSVOA_W
ClientSampleId :
EPE-105-5(5-10)

Tgt Ion: 119 Resp: 6658
Ion Ratio Lower Upper
119 100
134 0.0 12.9 38.7#
91 0.0 11.8 35.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.103 ug/l
RT: 14.51 min Scan# 2120
Delta R.T. 0.02 min
Lab File: VW003280.D
Acq: 15 Jun 2018 02:59

Tgt Ion: 75 Resp: 177
Ion Ratio Lower Upper
75 100
155 0.0 39.4 118.2#
157 0.0 51.5 154.5#

