

Data File : VW013440.D
Acq On : 04 Oct 2019 15:45
Operator : SY/VA
Sample : K5213-04
Misc : 5.08G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S-2(5-10)

Quant Time: Oct 05 04:54:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	213801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	307036	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	256265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	120150	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	81352	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
35) Dibromofluoromethane	7.88	113	82094	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
50) Toluene-d8	10.32	98	351333	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
62) 4-Bromofluorobenzene	12.62	95	181012	81.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	162.16%	

Target Compounds

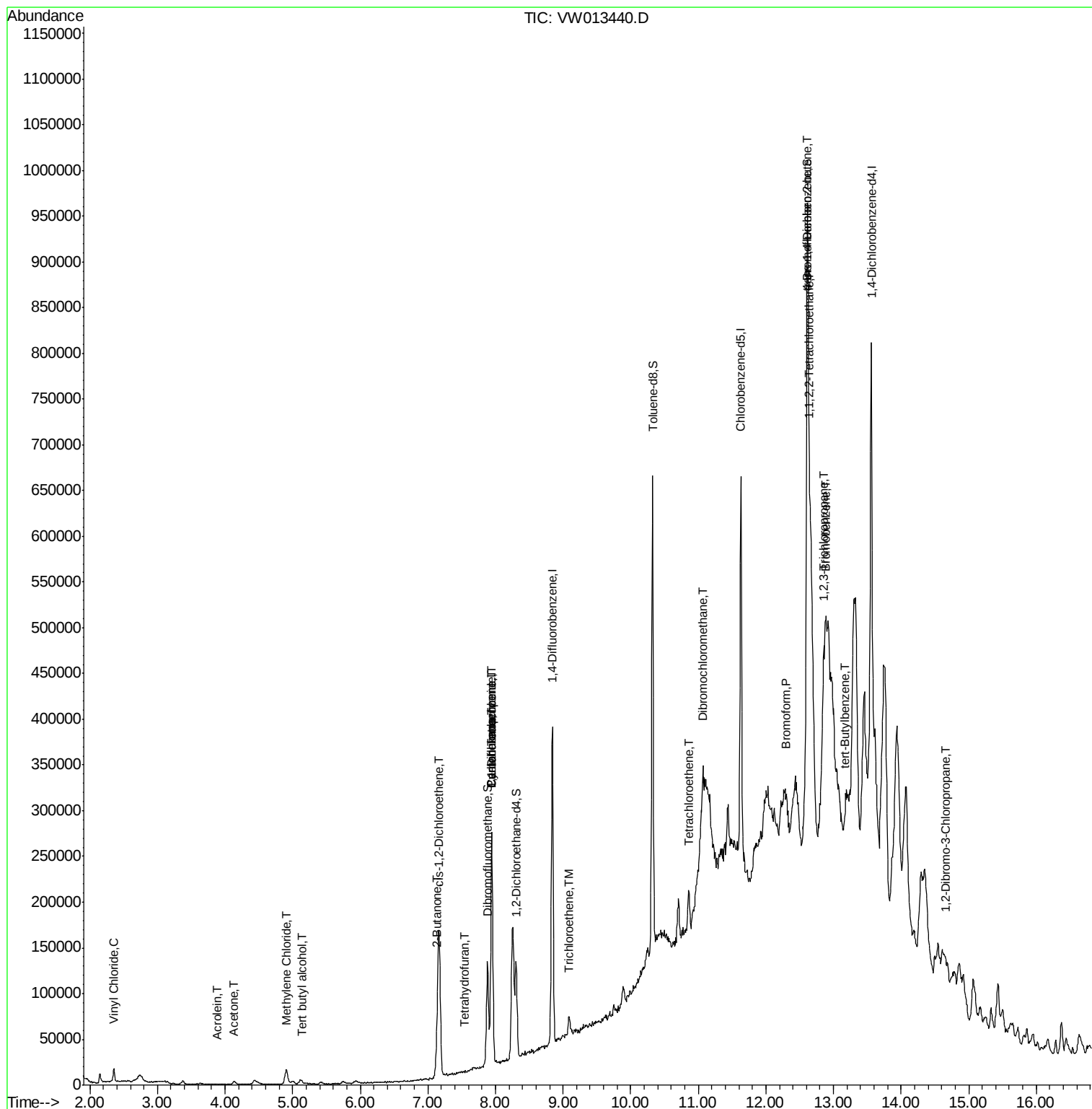
						Qvalue
4) Vinyl Chloride	2.35	62	11508	5.942	ug/l	97
11) Tert butyl alcohol	5.13	59	4641	3.832	ug/l #	74
13) Acrolein	3.88	56	42	10.827	ug/l #	1
16) Acetone	4.14	43	6905	14.111	ug/l	97
20) Methylene Chloride	4.90	84	11689	4.078	ug/l	95
25) 2-Butanone	7.13	43	2968	4.740	ug/l #	82
27) cis-1,2-Dichloroethene	7.17	96	88756	40.456	ug/l	89
29) Tetrahydrofuran	7.54	42	267	10.398	ug/l #	34
31) Cyclohexane	7.95	56	3733	1.022	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	13799	4.839	ug/l #	57
38) Carbon Tetrachloride	7.95	117	17781	7.198	ug/l #	17
44) Trichloroethene	9.09	130	8243	3.626	ug/l	98
49) 1,4-Dioxane	9.52	88	47	Below Cal	#	56
60) Dibromochloromethane	11.07	129	8838	5.364	ug/l	55
64) Tetrachloroethene	10.86	164	11340	5.816	ug/l	97
71) Bromoform	12.30	173	2652	2.735	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.65	83	146343	98.379	ug/l #	27
76) 1,2,3-Trichloropropane	12.85	75	3648	3.416	ug/l #	100
77) Bromobenzene	12.87	156	294526	139.564	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	50114	95.612	ug/l #	31
83) tert-Butylbenzene	13.17	119	9524	1.494	ug/l #	29
92) 1,2-Dibromo-3-Chloropropan	14.66	75	508	2.283	ug/l	91

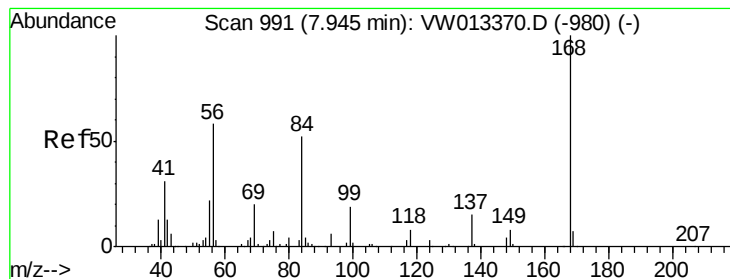
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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S-2(5-10)

Quant Time: Oct 05 04:54:06 2019
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Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

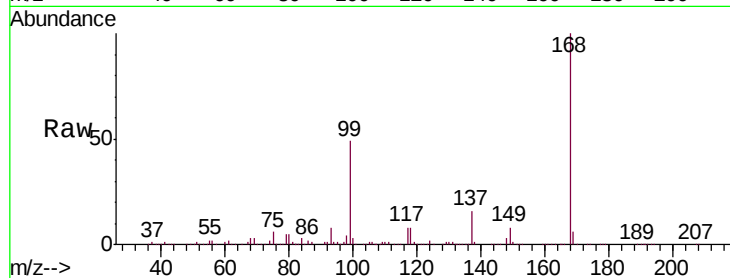
S-2(5-10)

Tgt Ion:168 Resp: 213801

Ion Ratio Lower Upper

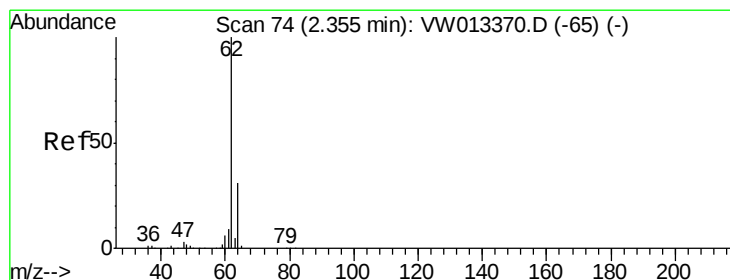
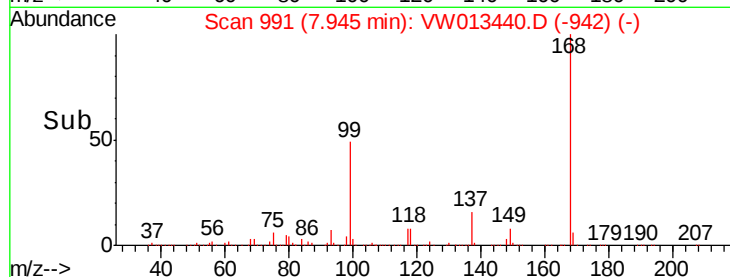
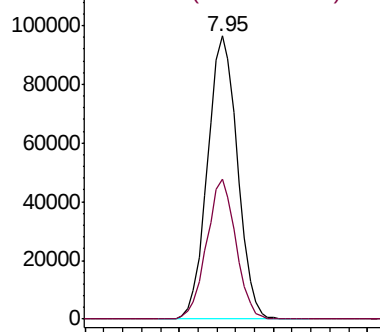
168 100

99 49.4 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#4

Vinyl Chloride

Concen: 5.942 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013440.D

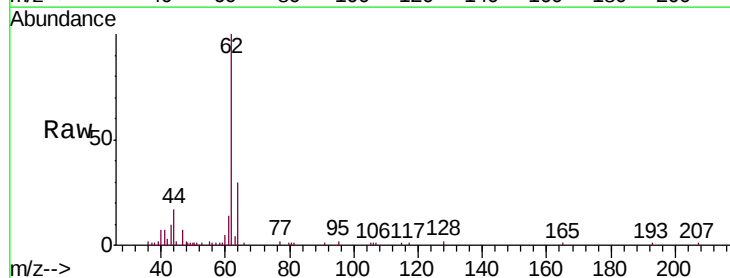
Acq: 04 Oct 2019 15:45

Tgt Ion: 62 Resp: 11508

Ion Ratio Lower Upper

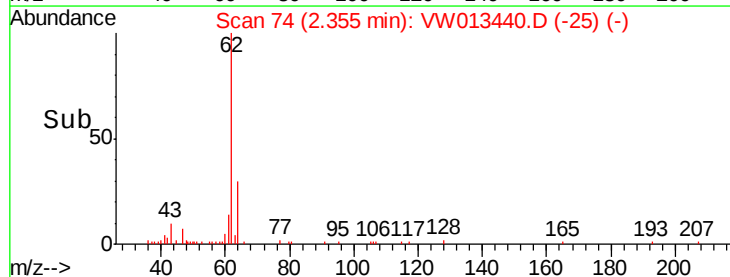
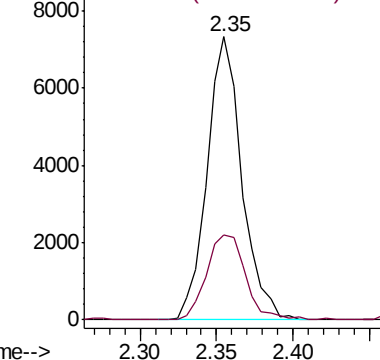
62 100

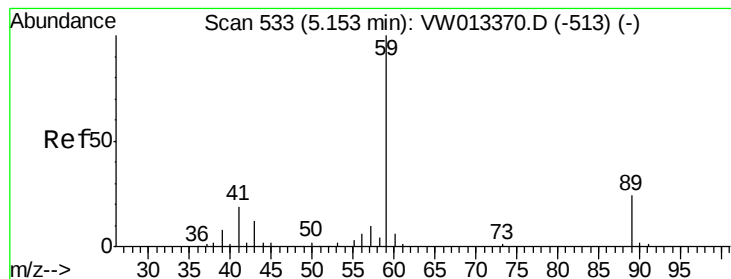
64 29.8 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW



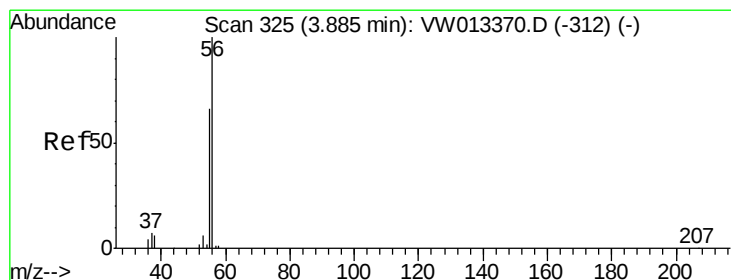
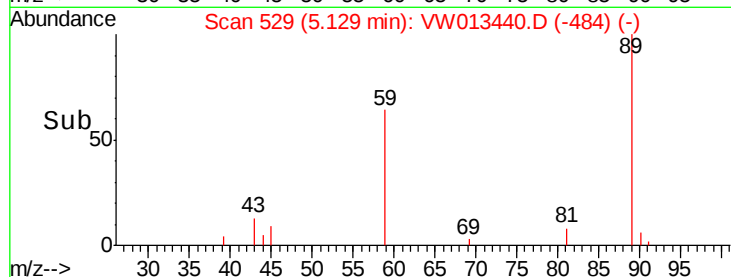
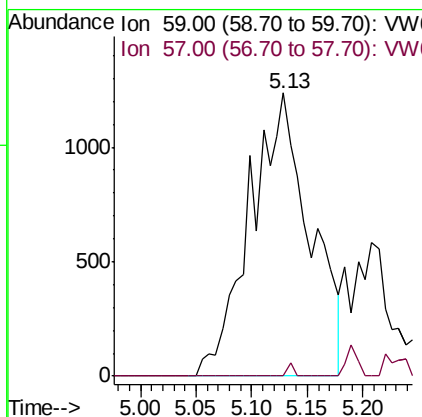
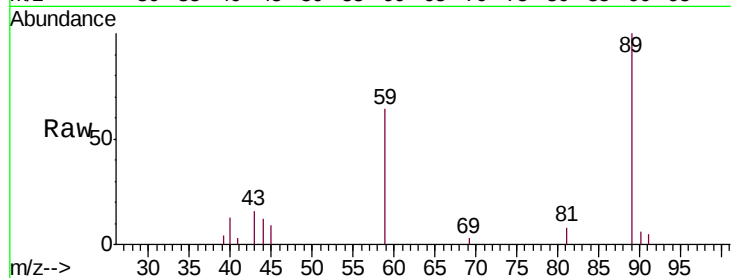


#11

Tert butyl alcohol
 Concen: 3.832 ug/l
 RT: 5.13 min Scan# 529
 Delta R.T. -0.02 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

Instrument :
 MSVOA_W
 ClientSampled :
 S-2(5-10)

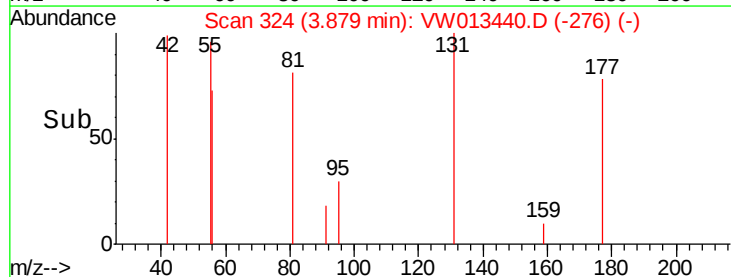
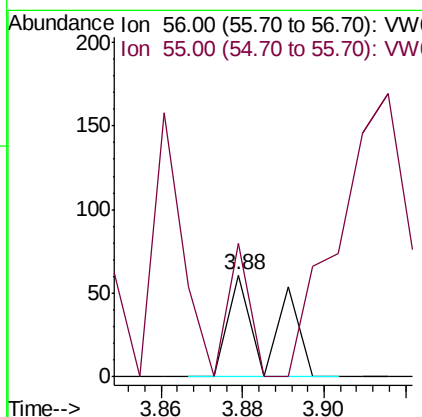
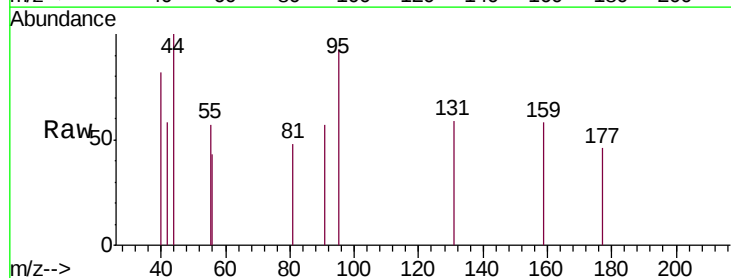
Tgt Ion: 59 Resp: 4641
 Ion Ratio Lower Upper
 59 100
 57 0.5 8.2 12.2#

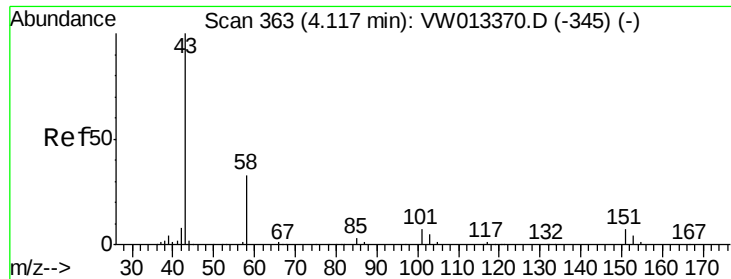


#13

Acrolein
 Concen: 10.827 ug/l
 RT: 3.88 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

Tgt Ion: 56 Resp: 42
 Ion Ratio Lower Upper
 56 100
 55 238.1 55.4 83.0#





#16

Acetone

Concen: 14.111 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

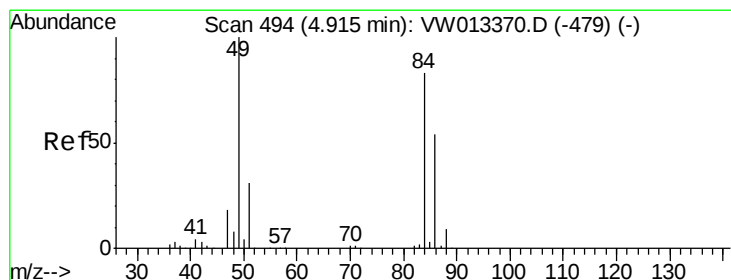
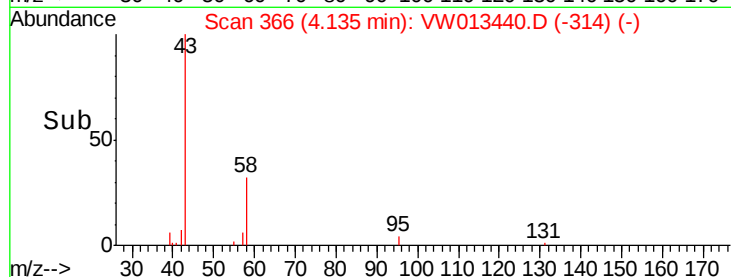
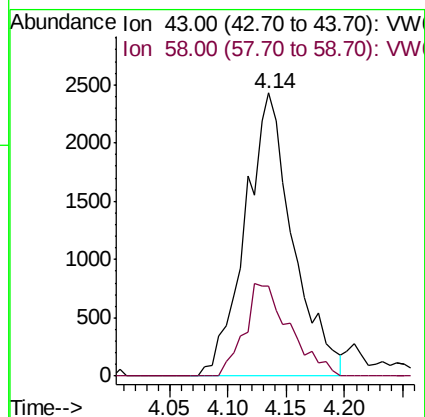
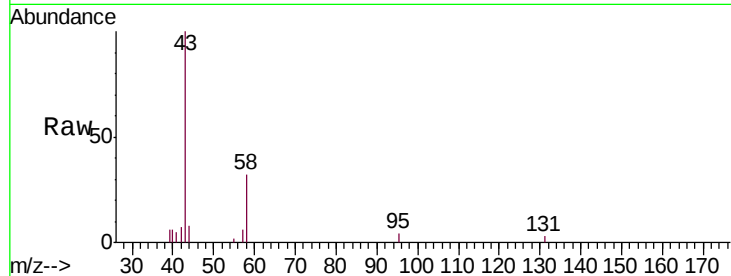
S-2(5-10)

Tgt Ion: 43 Resp: 6905

Ion Ratio Lower Upper

43 100

58 31.8 24.1 36.1



#20

Methylene Chloride

Concen: 4.078 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Tgt Ion: 84 Resp: 11689

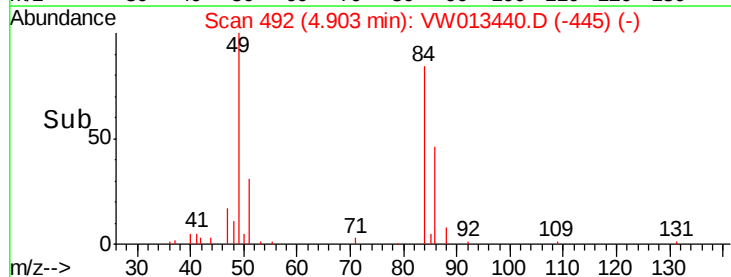
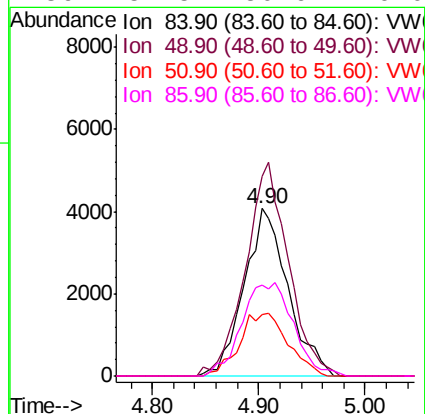
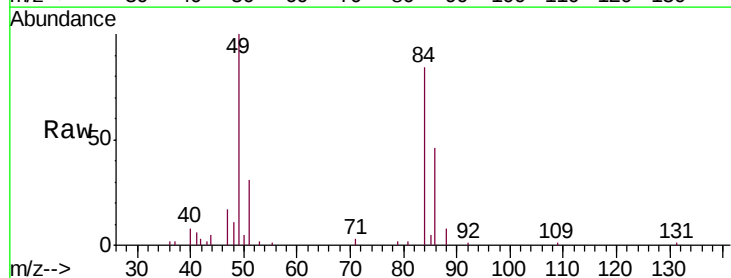
Ion Ratio Lower Upper

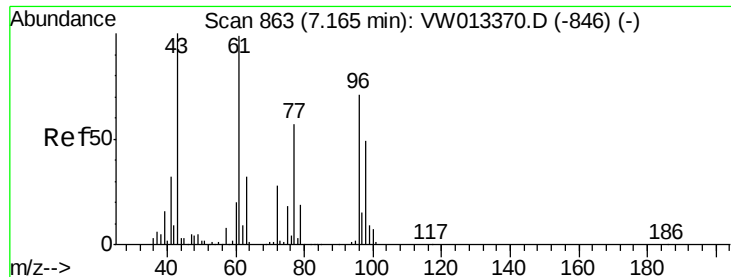
84 100

49 119.2 97.6 146.4

51 36.8 30.2 45.2

86 54.5 50.6 76.0

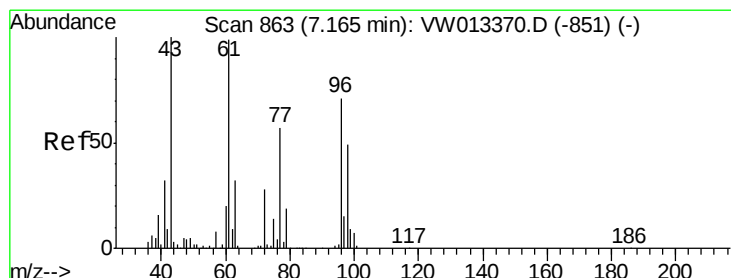
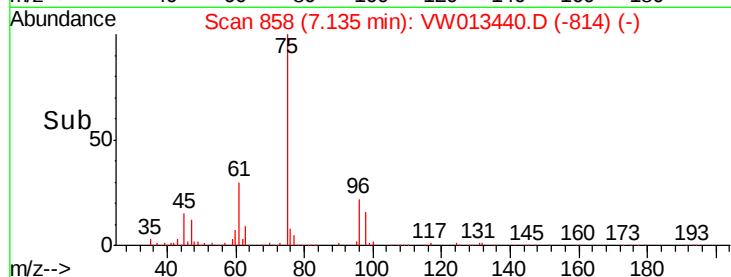
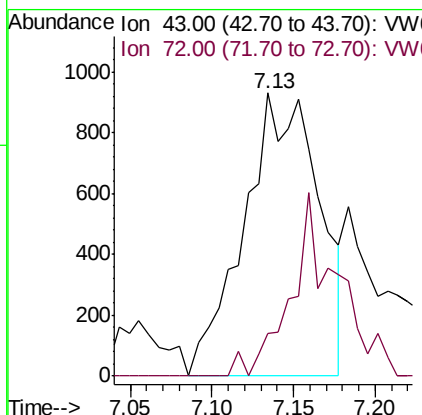
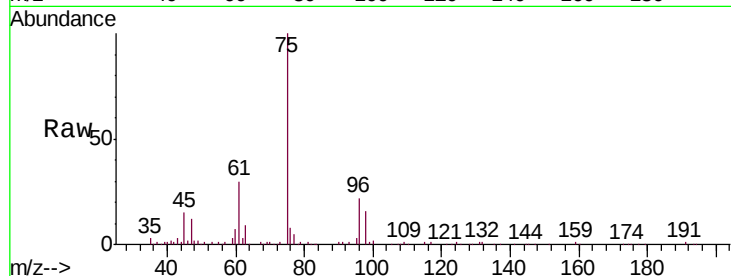




#25
2-Butanone
Concen: 4.740 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.03 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

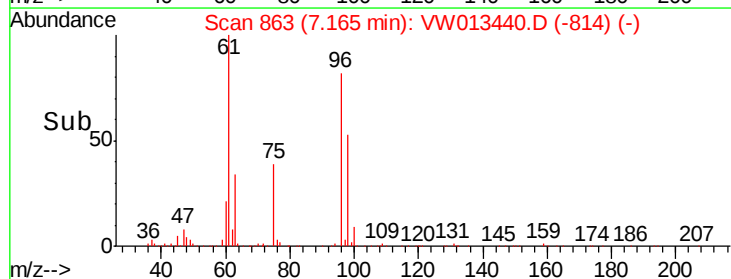
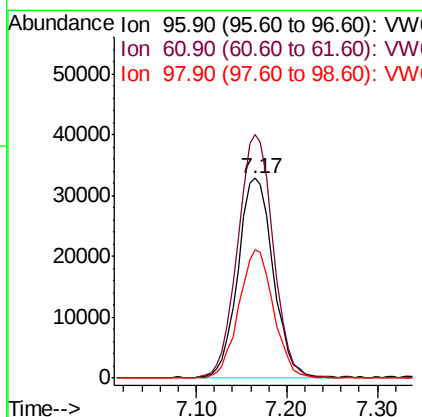
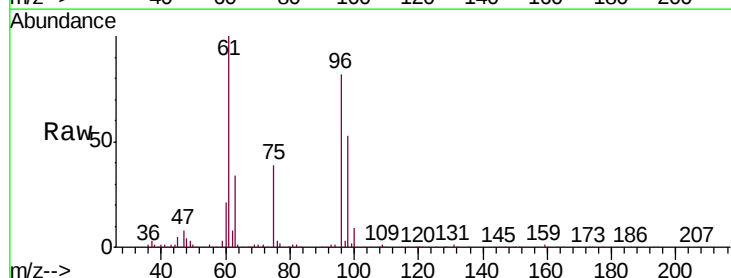
Instrument :
MSVOA_W
ClientSampled :
S-2(5-10)

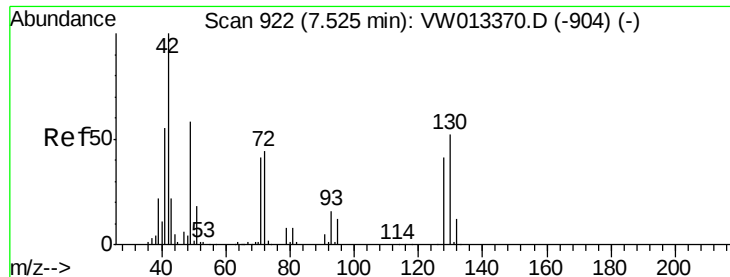
Tgt Ion: 43 Resp: 2968
Ion Ratio Lower Upper
43 100
72 15.2 19.4 29.0#



#27
cis-1,2-Dichloroethene
Concen: 40.456 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Tgt Ion: 96 Resp: 88756
Ion Ratio Lower Upper
96 100
61 122.5 0.0 282.4
98 63.3 0.0 128.2

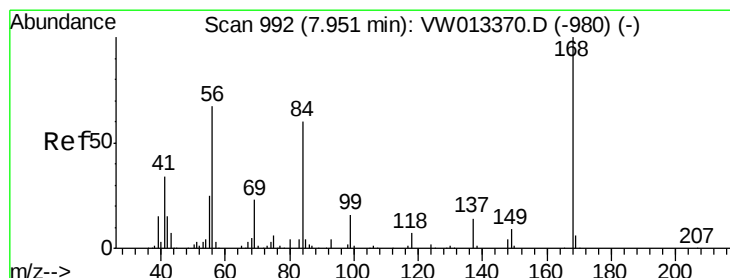
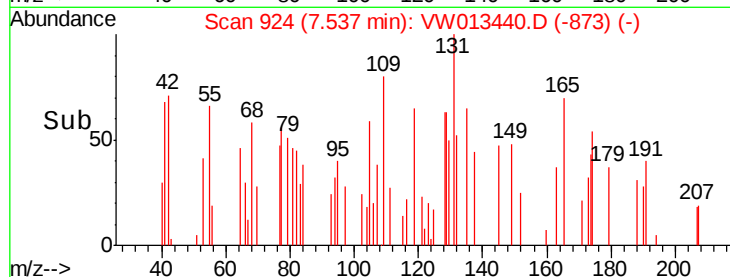
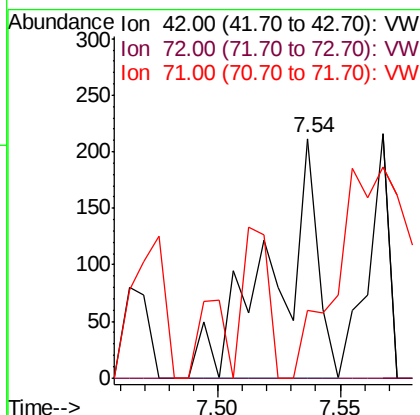
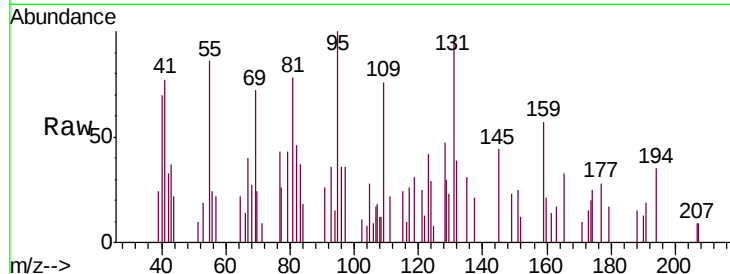




#29
Tetrahydrofuran
Concen: 10.398 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

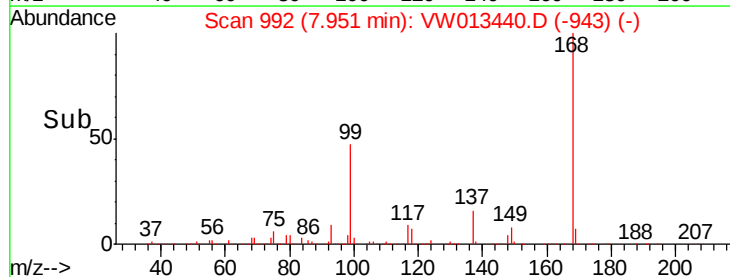
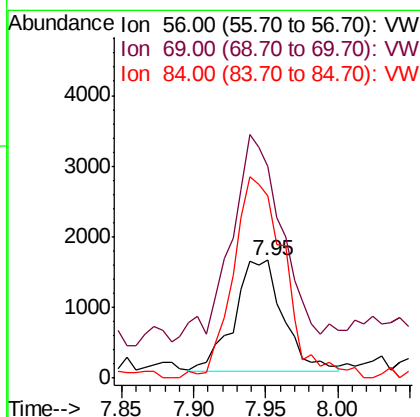
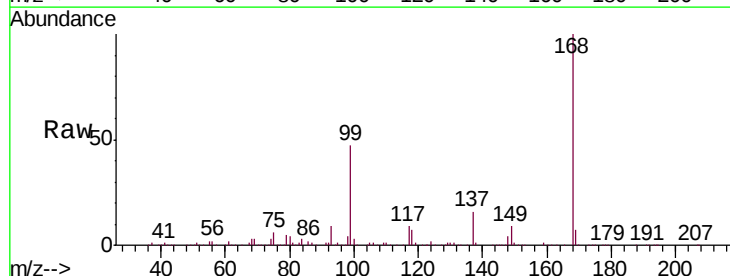
Instrument :
MSVOA_W
ClientSampled :
S-2(5-10)

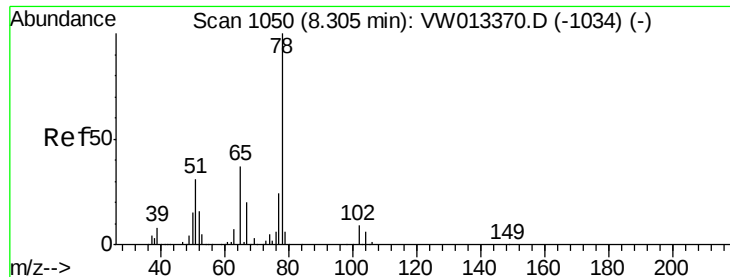
Tgt Ion: 42 Resp: 267
Ion Ratio Lower Upper
42 100
72 0.0 33.9 50.9#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: 1.022 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Tgt Ion: 56 Resp: 3733
Ion Ratio Lower Upper
56 100
69 148.2 27.2 40.8#
84 158.9 70.8 106.2#

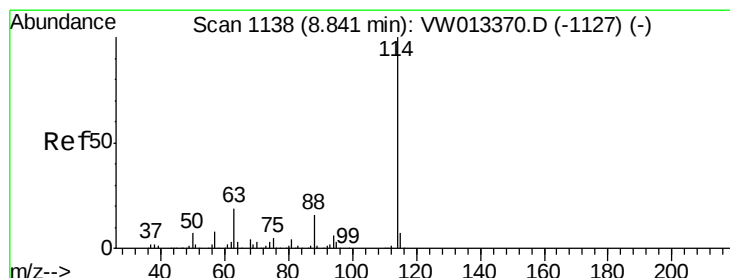
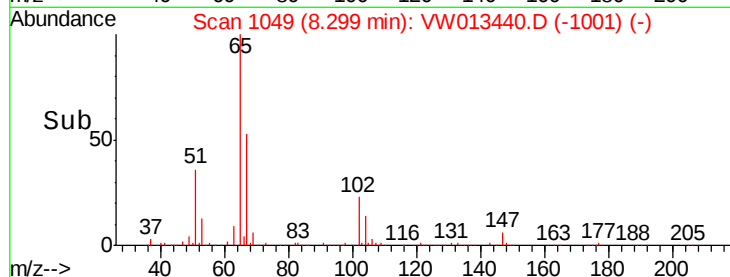
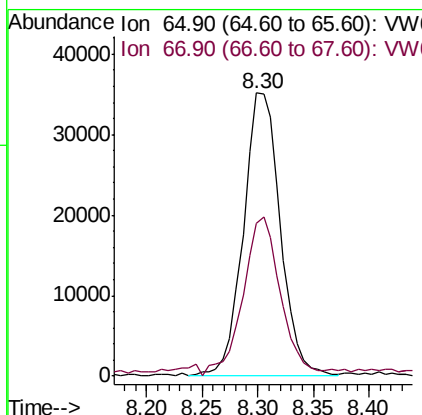
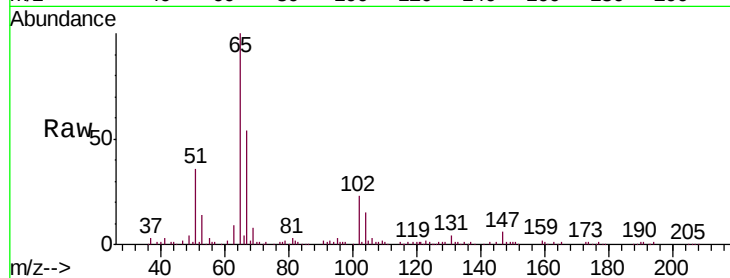




#33
 1,2-Dichloroethane-d4
 Concen: 50.960 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

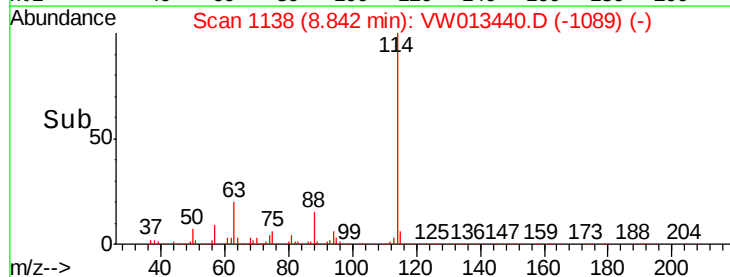
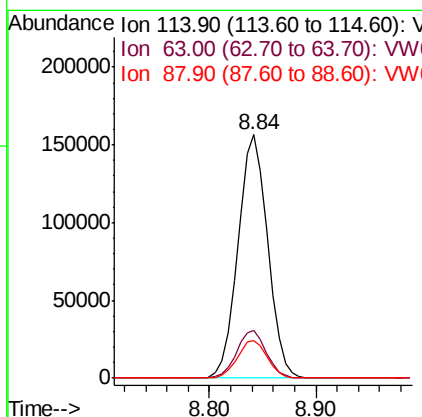
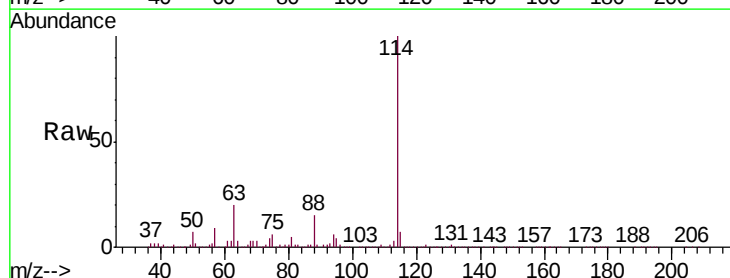
Instrument :
 MSVOA_W
 ClientSampleId :
 S-2(5-10)

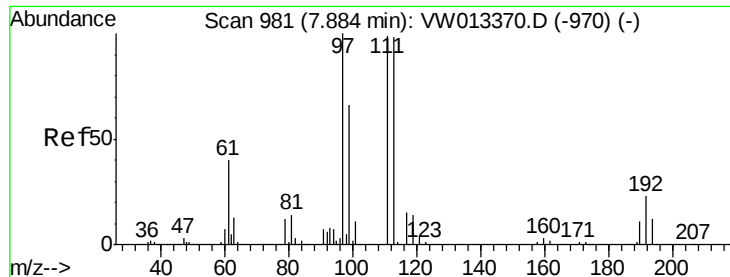
Tgt Ion: 65 Resp: 81352
 Ion Ratio Lower Upper
 65 100
 67 57.5 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

Tgt Ion: 114 Resp: 307036
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.4 0.0 32.0

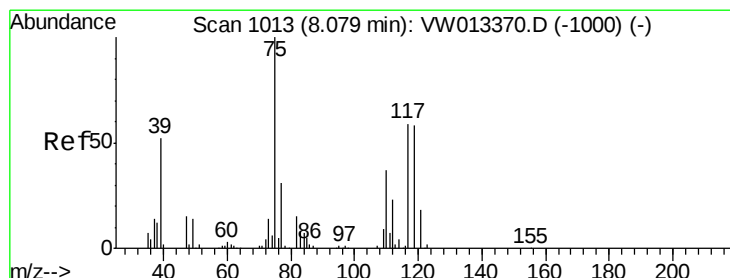
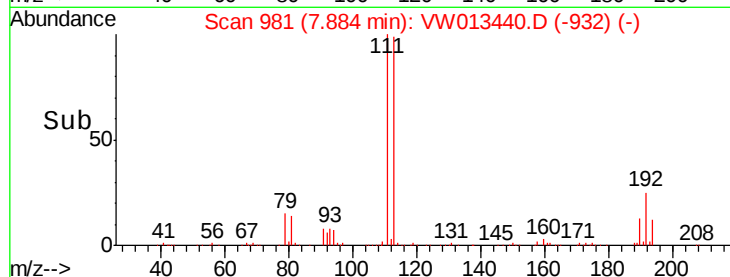
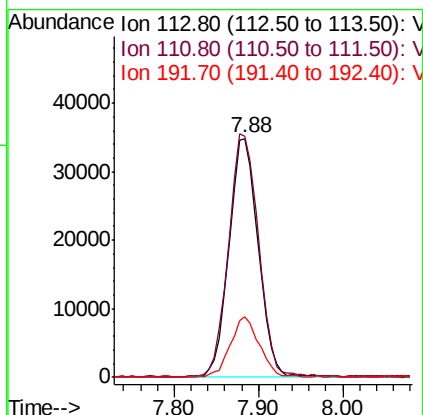
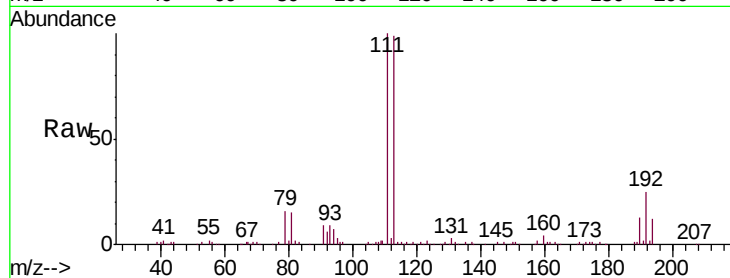




#35
 Dibromofluoromethane
 Concen: 50.956 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

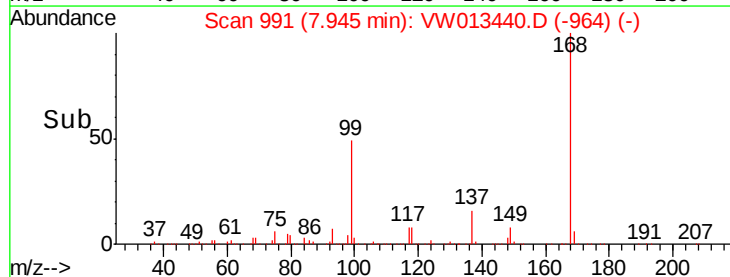
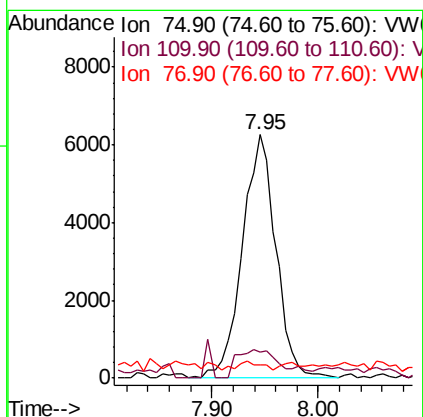
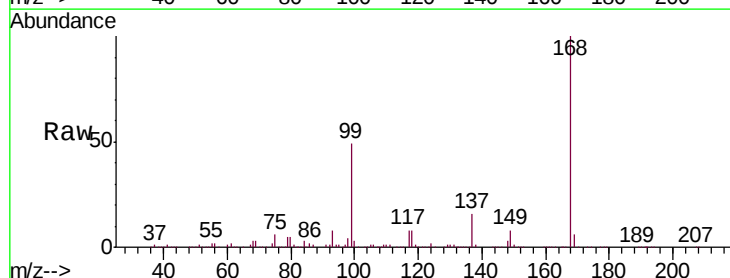
Instrument :
 MSVOA_W
 ClientSampleId :
 S-2(5-10)

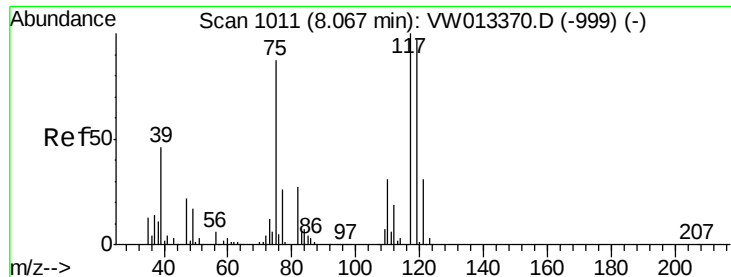
Tgt Ion:113 Resp: 82094
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.9 122.9
 192 25.0 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.839 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013440.D
 Acq: 04 Oct 2019 15:45

Tgt Ion: 75 Resp: 13799
 Ion Ratio Lower Upper
 75 100
 110 16.0 18.1 54.3#
 77 2.7 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 7.198 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampleId :

S-2(5-10)

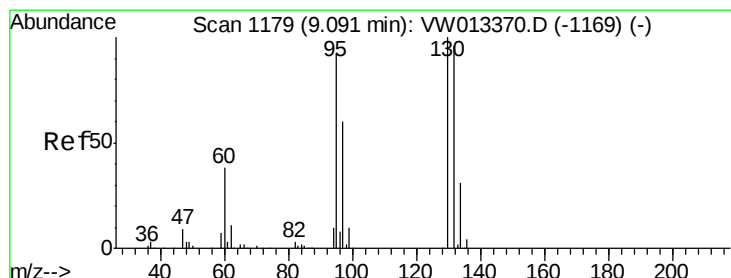
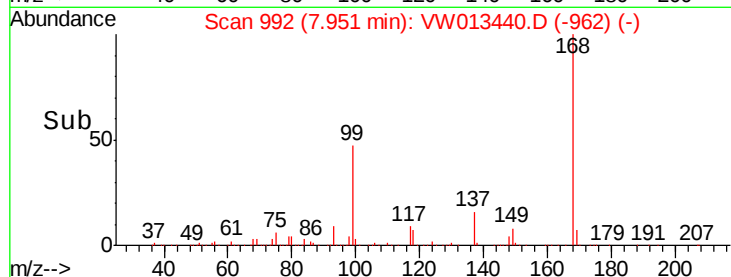
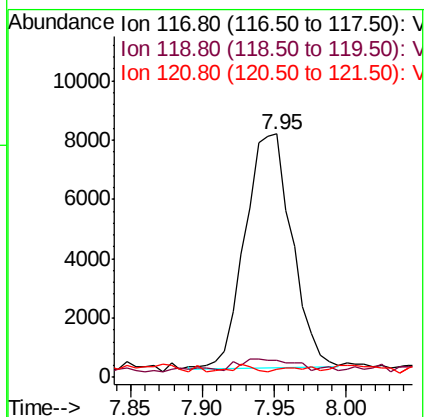
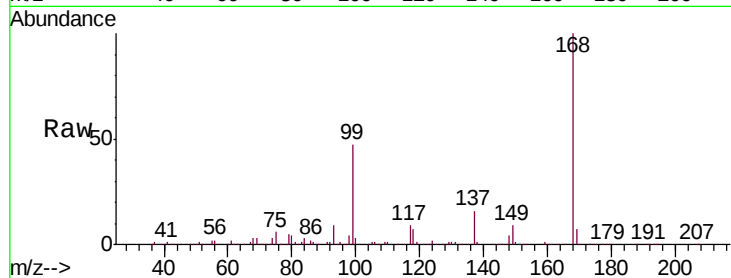
Tgt Ion:117 Resp: 17781

Ion Ratio Lower Upper

117 100

119 4.3 73.5 110.3#

121 1.0 25.0 37.6#



#44

Trichloroethene

Concen: 3.626 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW013440.D

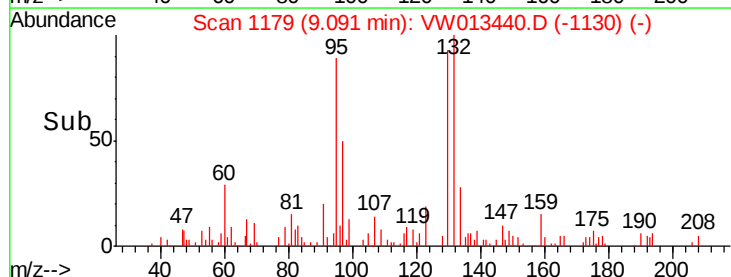
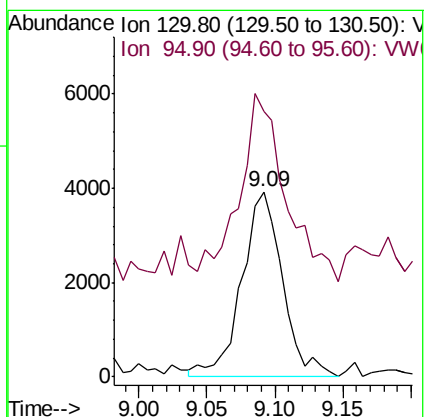
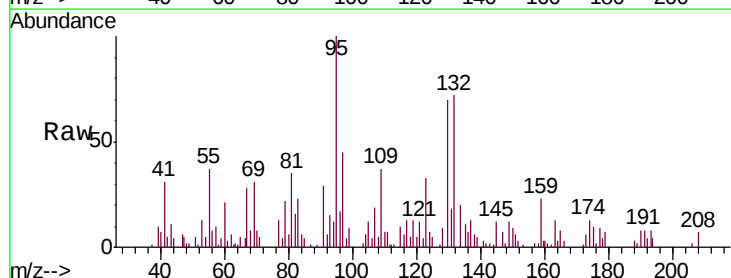
Acq: 04 Oct 2019 15:45

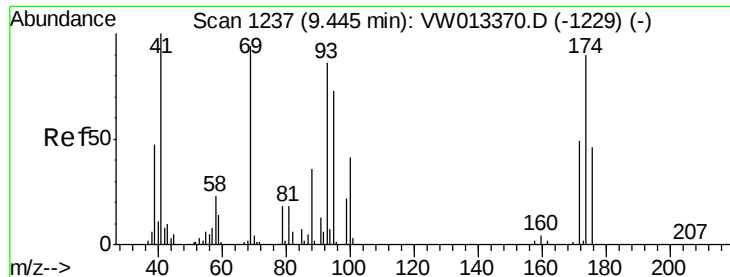
Tgt Ion:130 Resp: 8243

Ion Ratio Lower Upper

130 100

95 92.0 0.0 188.0

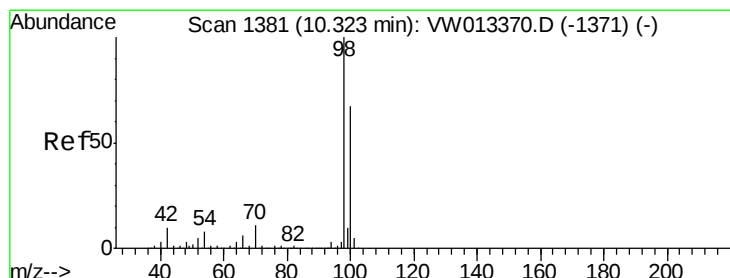
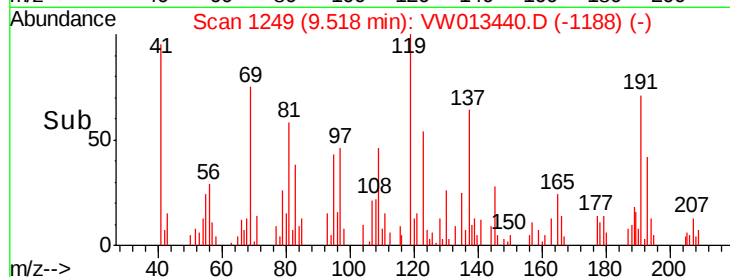
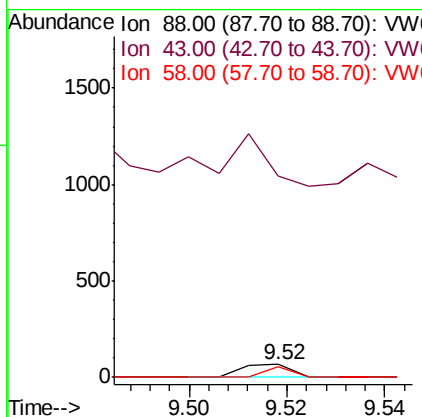
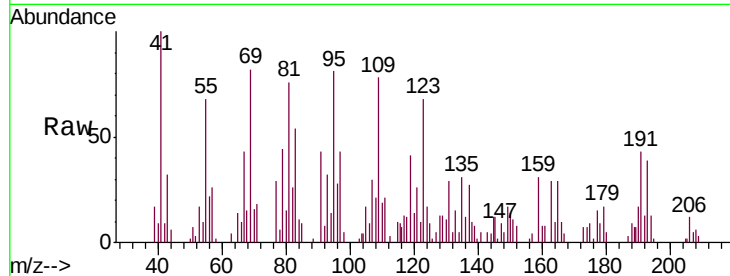




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.52 min Scan# 1249
Delta R.T. 0.07 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

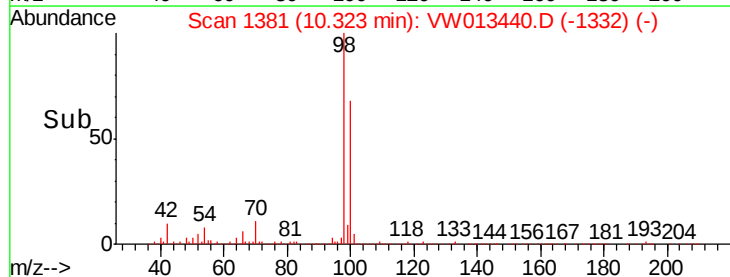
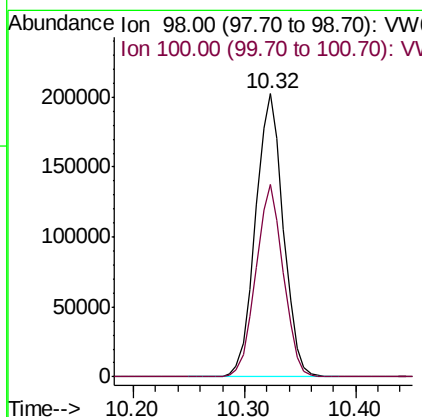
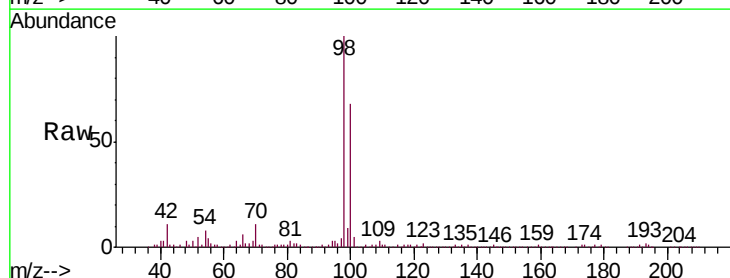
Instrument :
MSVOA_W
ClientSampleId :
S-2(5-10)

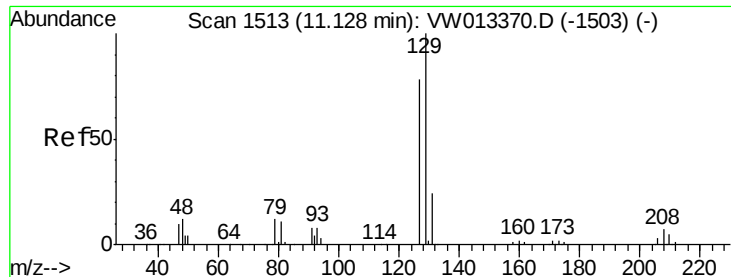
Tgt Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 42.6 65.4 98.0#



#50
Toluene-d8
Concen: 52.550 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Tgt Ion: 98 Resp: 351333
Ion Ratio Lower Upper
98 100
100 67.3 52.9 79.3

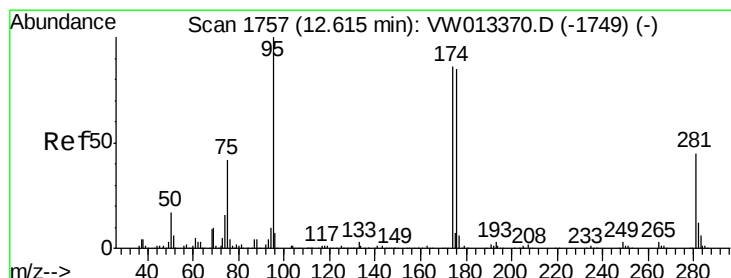
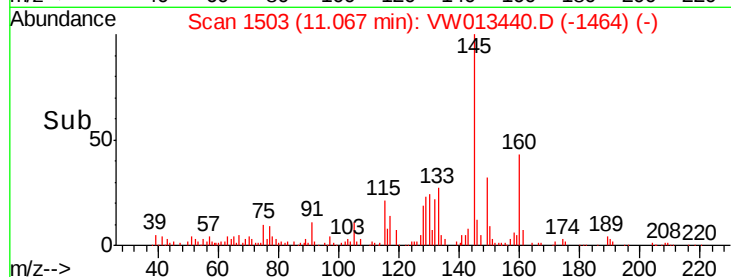
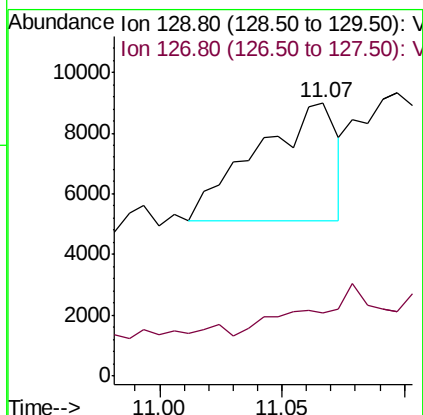
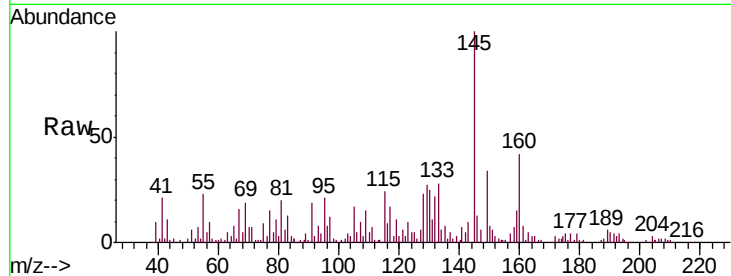




#60
Dibromochloromethane
Concen: 5.364 ug/l
RT: 11.07 min Scan# 1503
Delta R.T. -0.06 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

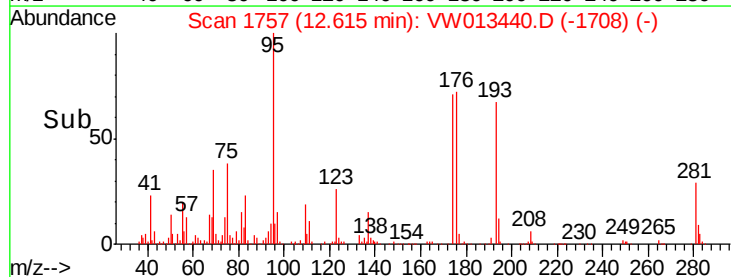
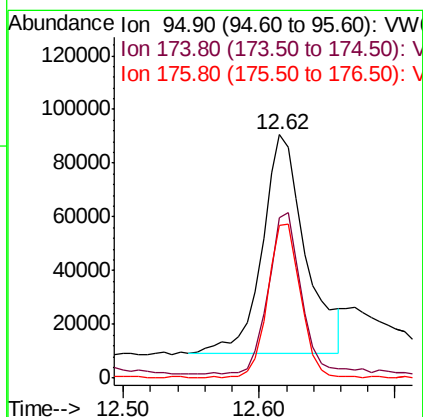
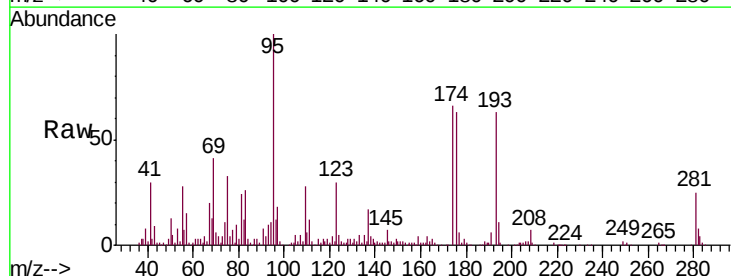
Instrument :
MSVOA_W
ClientSampled :
S-2(5-10)

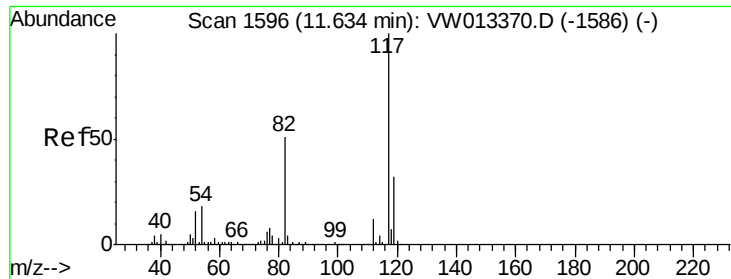
Tgt Ion:129 Resp: 8838
Ion Ratio Lower Upper
129 100
127 38.9 38.8 116.4



#62
4-Bromofluorobenzene
Concen: 81.076 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Tgt Ion: 95 Resp: 181012
Ion Ratio Lower Upper
95 100
174 57.3 0.0 178.4
176 52.7 0.0 172.2

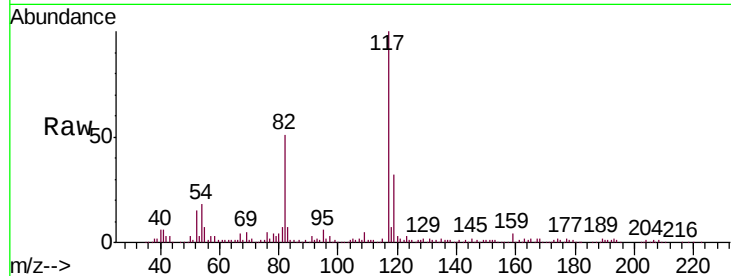




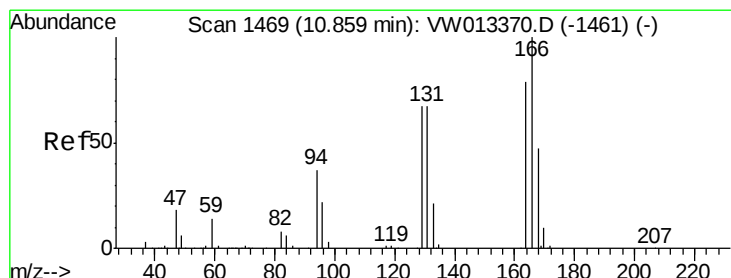
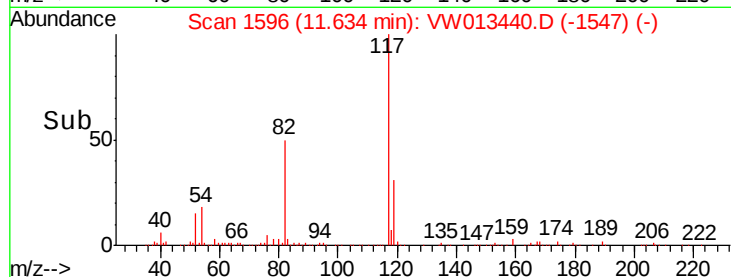
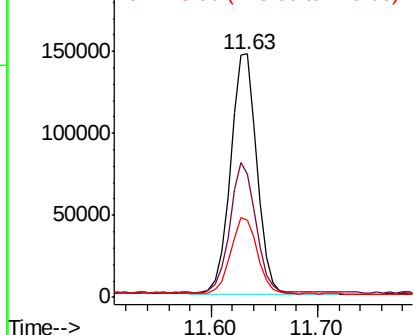
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Instrument :
MSVOA_W
ClientSampleId :
S-2(5-10)

Tgt Ion:117 Resp: 256265
Ion Ratio Lower Upper
117 100
82 49.3 45.9 68.9
119 30.5 26.2 39.2



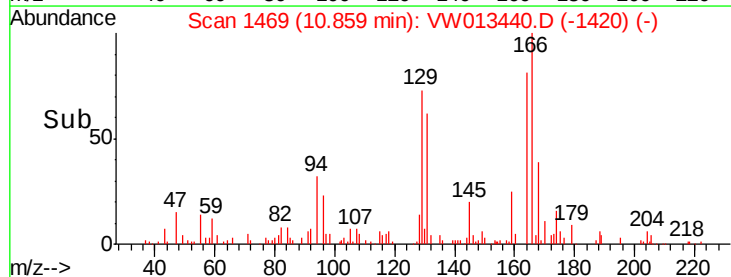
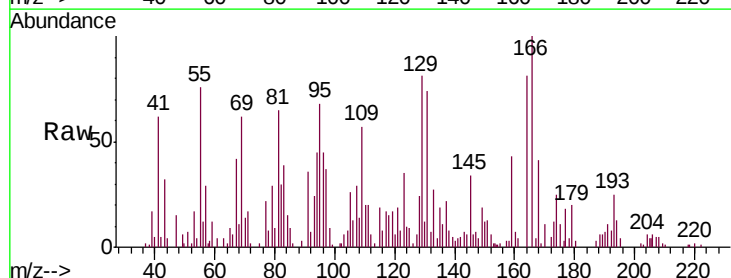
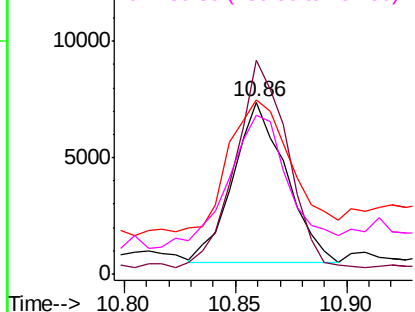
Abundance Ion 116.90 (116.60 to 117.60): V
200000 Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

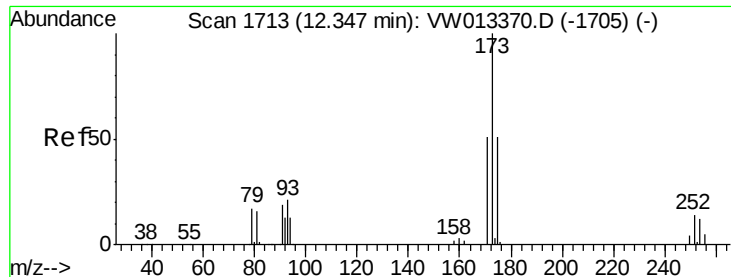


#64
Tetrachloroethene
Concen: 5.816 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013440.D
Acq: 04 Oct 2019 15:45

Tgt Ion:164 Resp: 11340
Ion Ratio Lower Upper
164 100
166 127.8 101.2 151.8
129 80.2 68.8 103.2
131 77.9 65.2 97.8

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 2.735 ug/l

RT: 12.30 min Scan# 1705

Delta R.T. -0.05 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

S-2(5-10)

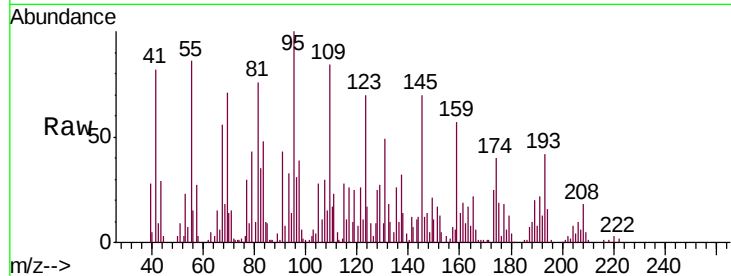
Tgt Ion:173 Resp: 2652

Ion Ratio Lower Upper

173 100

175 177.3 24.3 73.0#

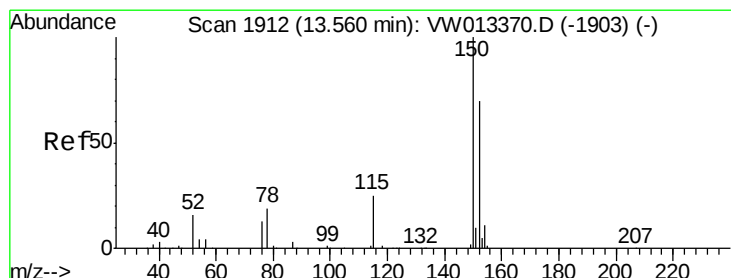
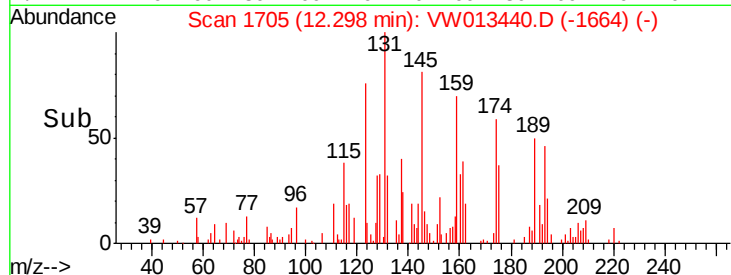
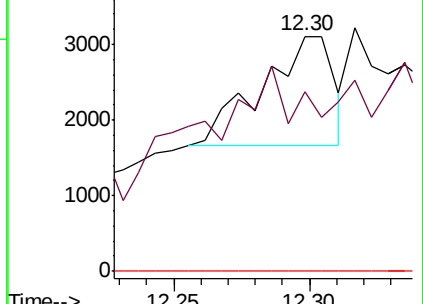
254 0.0 0.1 0.1#



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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

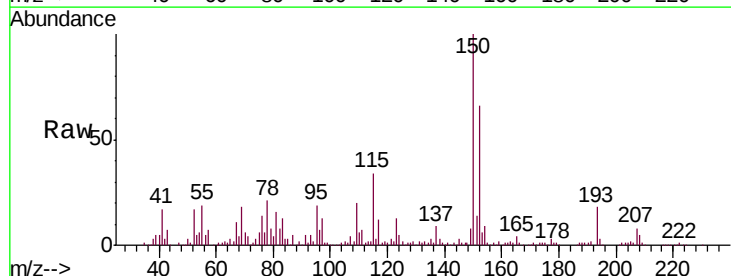
Tgt Ion:152 Resp: 120150

Ion Ratio Lower Upper

152 100

115 49.2 27.3 81.9

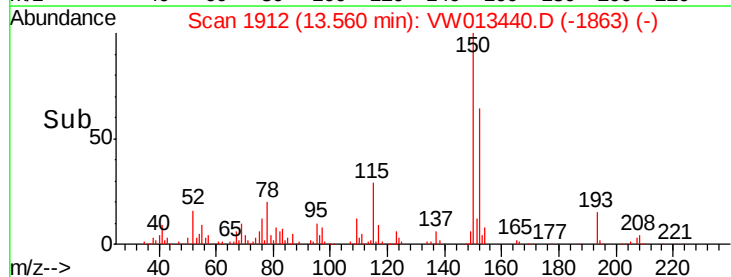
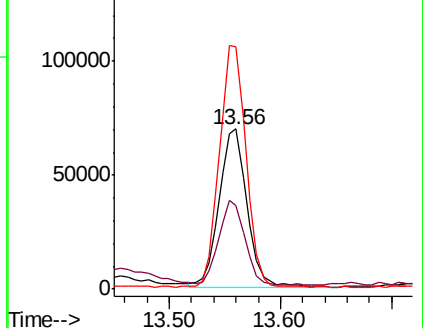
150 144.9 0.0 349.0

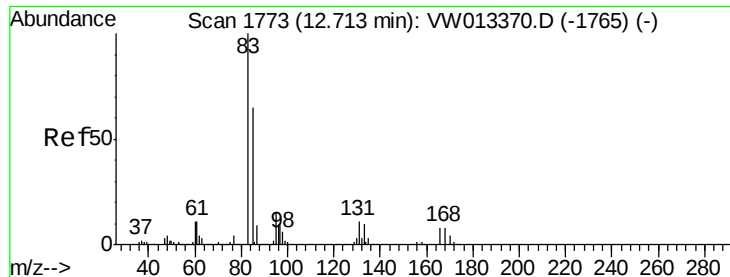


Abundance Ion 151.90 (151.60 to 152.60): V

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: 98.379 ug/l

RT: 12.65 min Scan# 1762

Delta R.T. -0.07 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampleId :

S-2(5-10)

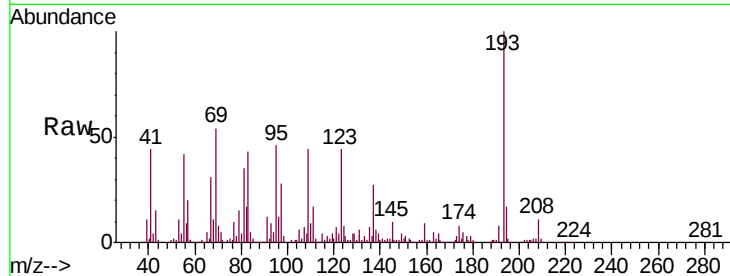
Tgt Ion: 83 Resp: 146343

Ion Ratio Lower Upper

83 100

131 1.3 5.4 16.2#

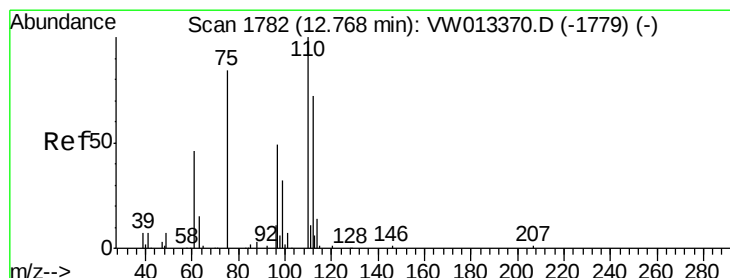
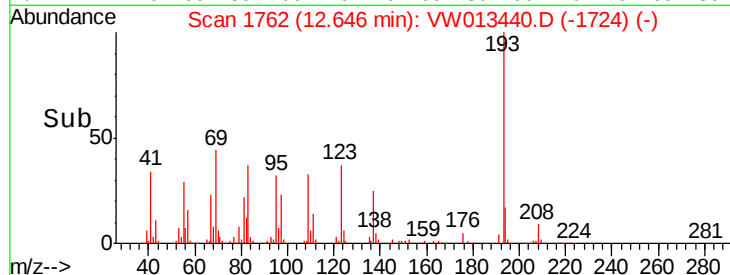
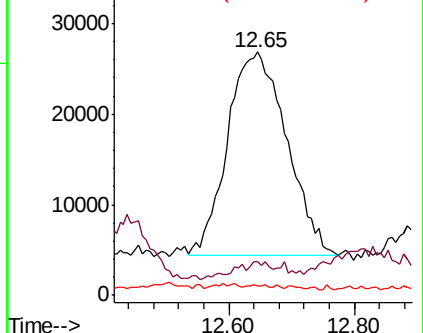
85 0.5 31.9 95.9#



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: 3.416 ug/l

RT: 12.85 min Scan# 1796

Delta R.T. 0.09 min

Lab File: VW013440.D

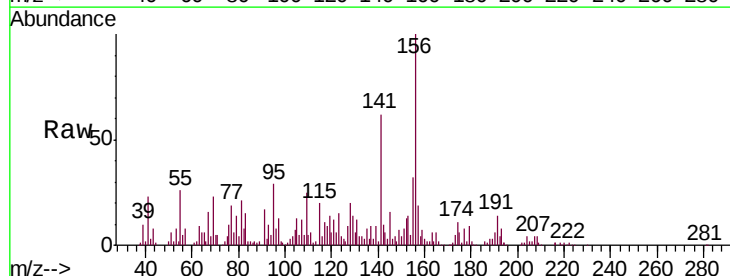
Acq: 04 Oct 2019 15:45

Tgt Ion: 75 Resp: 3648

Ion Ratio Lower Upper

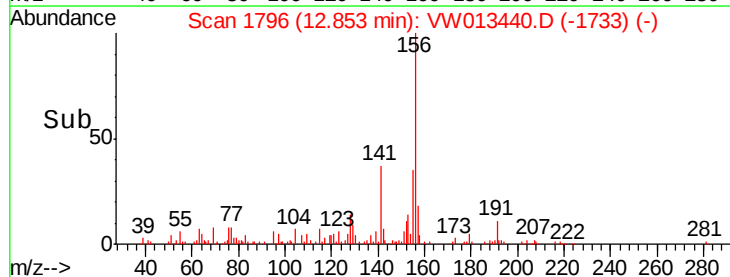
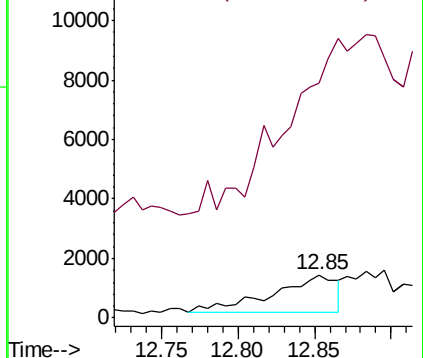
75 100

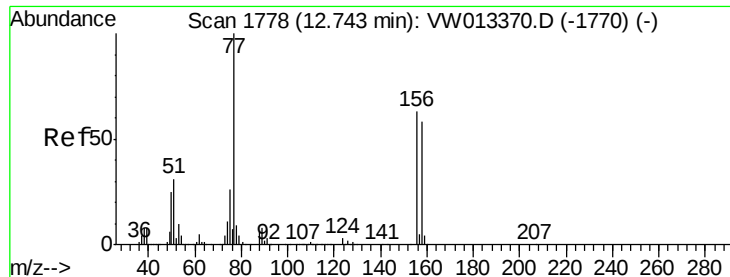
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 139.564 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.13 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

S-2(5-10)

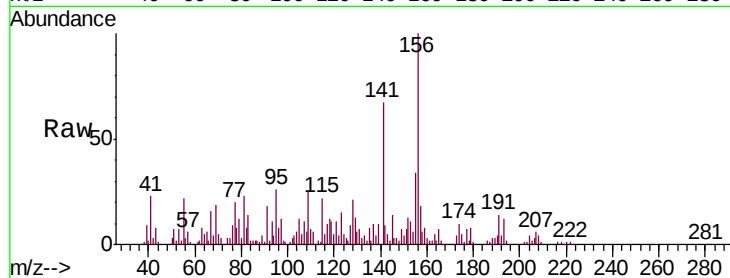
Tgt Ion:156 Resp: 294526

Ion Ratio Lower Upper

156 100

77 7.3 85.7 257.1#

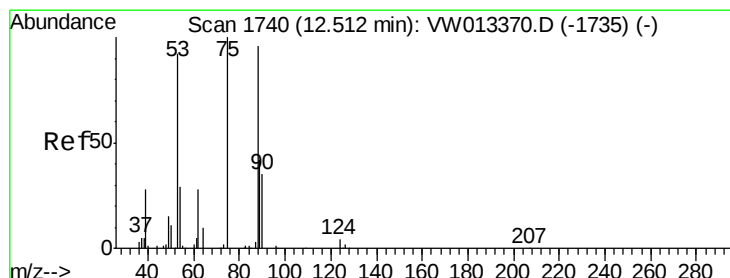
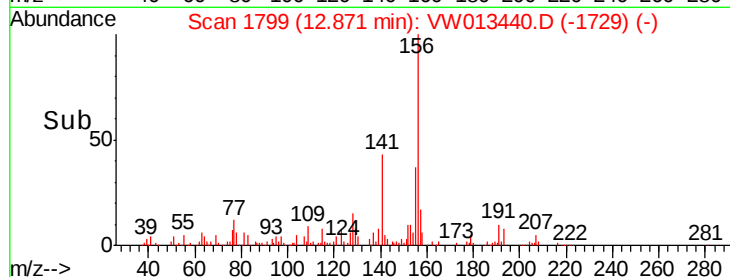
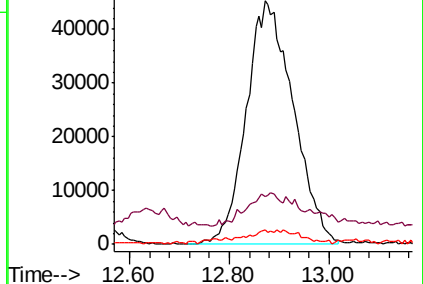
158 1.3 48.1 144.4#



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: 95.612 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

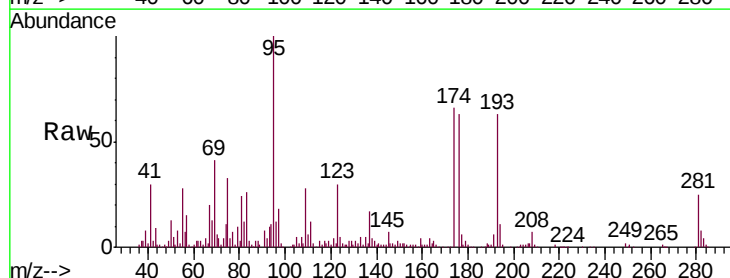
Tgt Ion: 75 Resp: 50114

Ion Ratio Lower Upper

75 100

53 25.9 76.6 114.8#

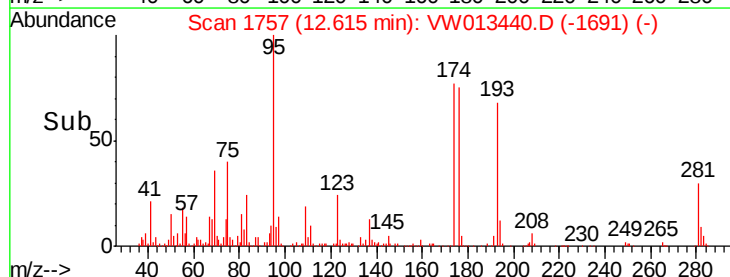
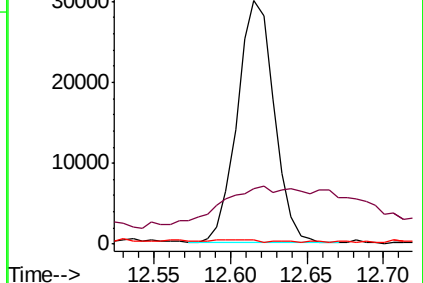
89 1.1 33.5 50.3#

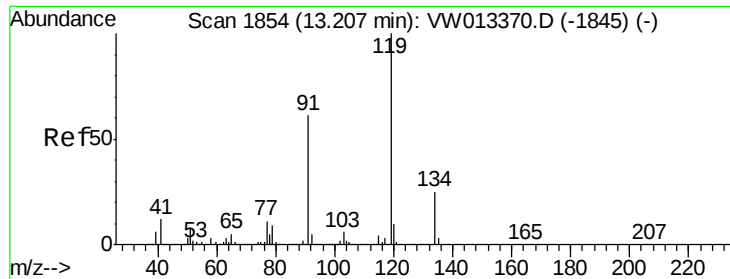


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#83

tert-Butylbenzene

Concen: 1.494 ug/l

RT: 13.17 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Instrument :

MSVOA_W

ClientSampled :

S-2(5-10)

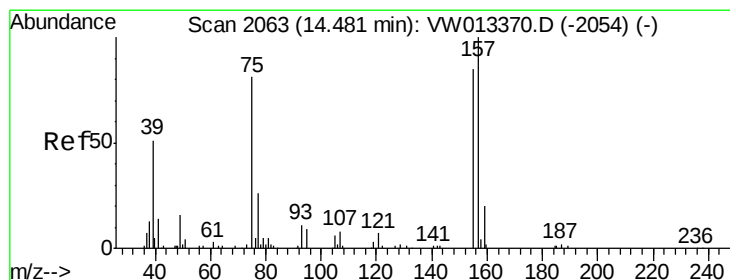
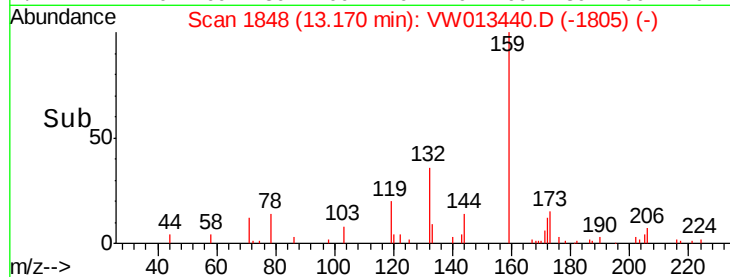
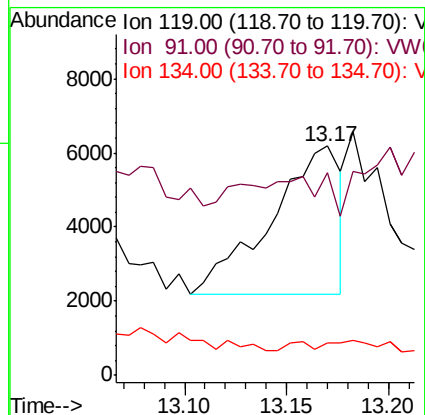
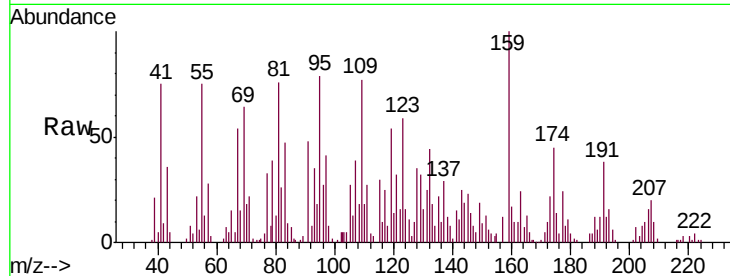
Tgt Ion: 119 Resp: 9524

Ion Ratio Lower Upper

119 100

91 0.0 30.7 92.1#

134 0.0 12.6 37.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.283 ug/l

RT: 14.66 min Scan# 2093

Delta R.T. 0.18 min

Lab File: VW013440.D

Acq: 04 Oct 2019 15:45

Tgt Ion: 75 Resp: 508

Ion Ratio Lower Upper

75 100

155 78.3 46.1 138.3

157 115.4 60.4 181.2

