

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011119\
 Data File : VX007021.D
 Acq On : 11 Jan 2019 18:36
 Operator : JC/SP
 Sample : K1133-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190109

Quant Time: Jan 11 22:21:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	538316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	839543	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	790988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	390494	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	293333	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
35) Dibromofluoromethane	5.50	113	259236	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	8.71	98	1003664	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	11.13	95	362453	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	

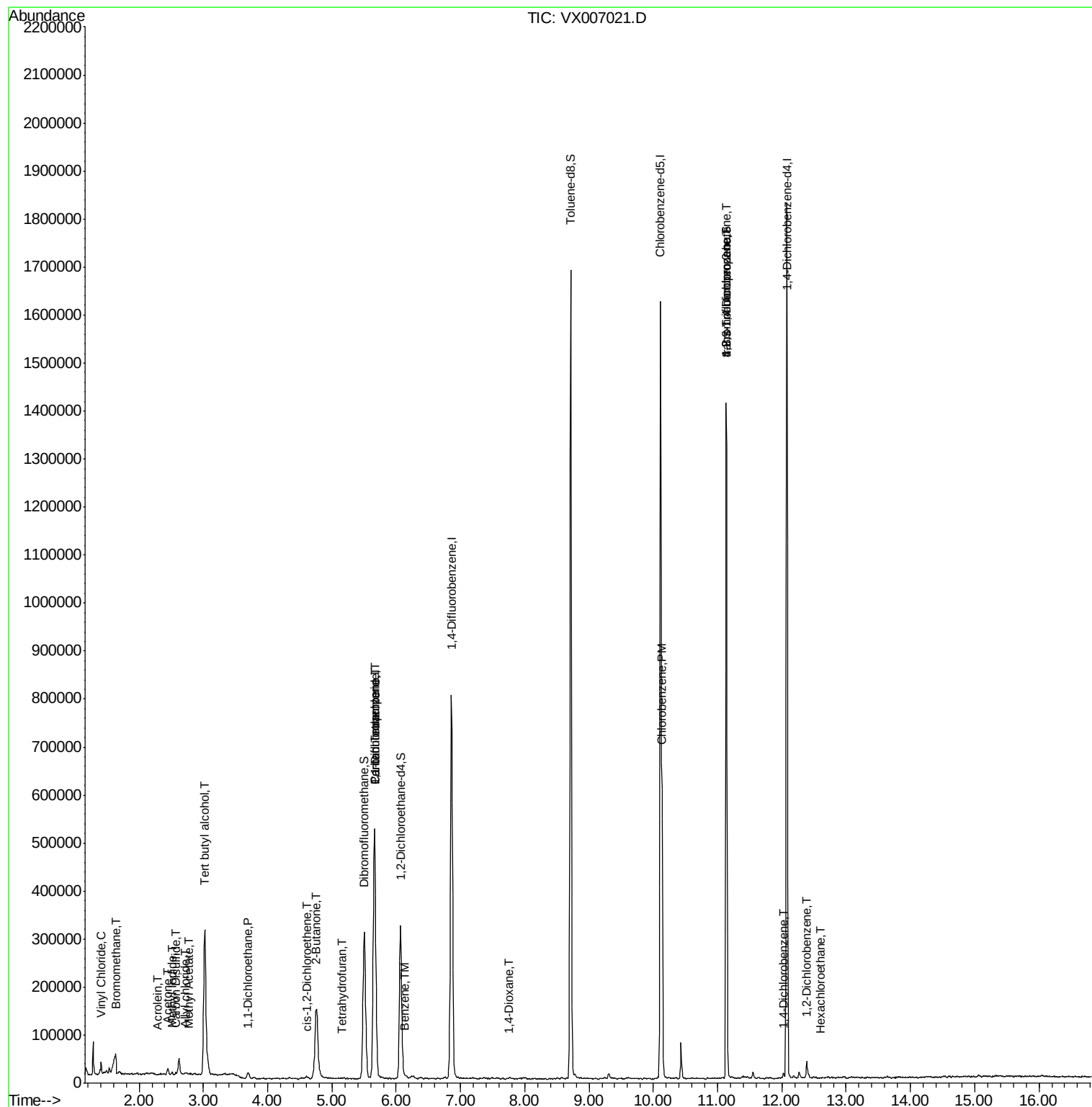
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	14082	2.544	ug/l	94
5) Bromomethane	1.64	94	2010	0.340	ug/l #	68
10) Methyl Iodide	2.51	142	4329	0.599	ug/l #	92
11) Tert butyl alcohol	3.02	59	210587	158.682	ug/l #	75
13) Acrolein	2.28	56	202	3.433	ug/l #	70
14) Allyl chloride	2.71	41	4069	0.480	ug/l #	50
16) Acetone	2.45	43	13593	4.887	ug/l	95
17) Carbon Disulfide	2.57	76	3919	0.308	ug/l	96
18) Methyl Acetate	2.78	43	2138	0.265	ug/l #	90
20) Methylene Chloride	2.85	84	345	Below Cal	#	69
24) 1,1-Dichloroethane	3.69	63	13192	1.480	ug/l #	87
25) 2-Butanone	4.76	43	13120	3.297	ug/l #	80
27) cis-1,2-Dichloroethene	4.60	96	2986	0.491	ug/l	79
29) Tetrahydrofuran	5.16	42	695	0.269	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	35368	4.846	ug/l #	48
38) Carbon Tetrachloride	5.67	117	49549	6.747	ug/l #	15
40) Benzene	6.14	78	9132	0.410	ug/l #	89
49) 1,4-Dioxane	7.76	88	2450	8.416	ug/l #	65
65) Chlorobenzene	10.14	112	248415	14.399	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	172695	21.824	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	172695	64.661	ug/l #	10
88) 1,4-Dichlorobenzene	12.02	146	2697	0.352	ug/l	78
90) Hexachloroethane	12.60	117	31	2.916	ug/l #	6
91) 1,2-Dichlorobenzene	12.39	146	6452	0.477	ug/l	99

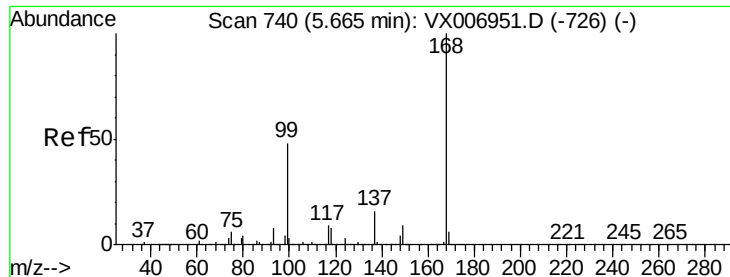
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 11 22:21:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

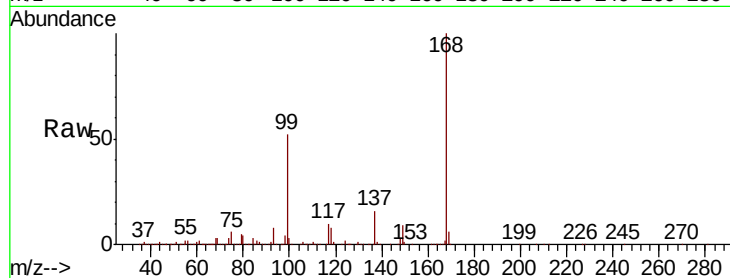
WP022MW102-190109

Tgt Ion:168 Resp: 538316

Ion Ratio Lower Upper

168 100

99 51.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

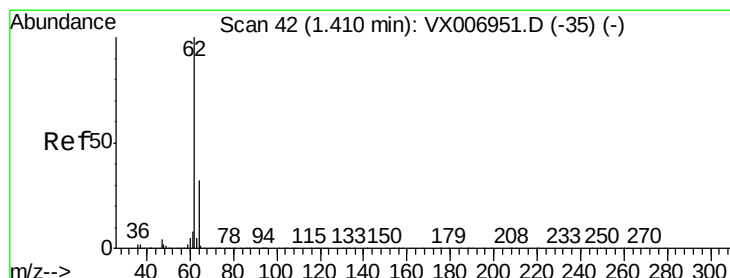
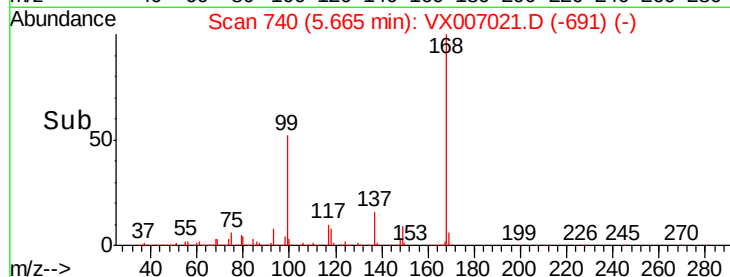
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 2.544 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007021.D

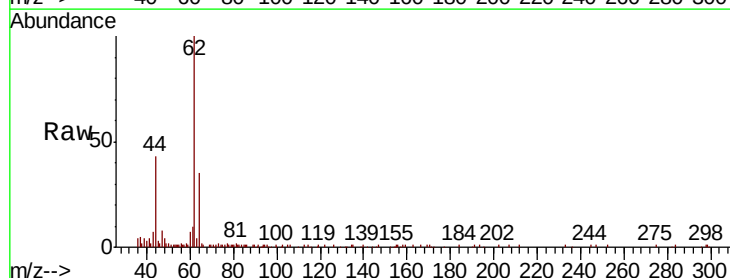
Acq: 11 Jan 2019 18:36

Tgt Ion: 62 Resp: 14082

Ion Ratio Lower Upper

62 100

64 34.8 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

15000

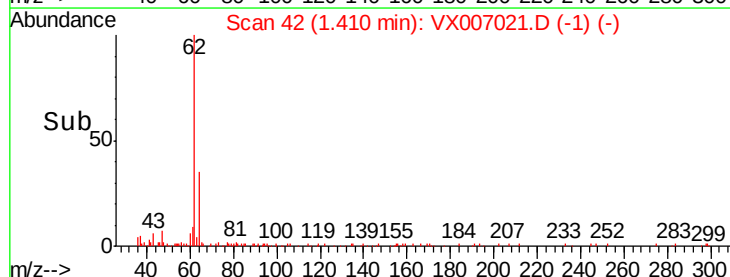
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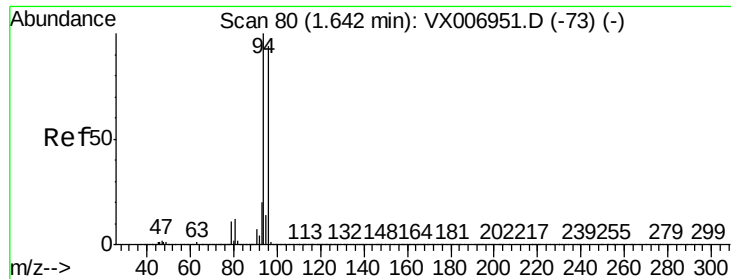
5000

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: 0.340 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

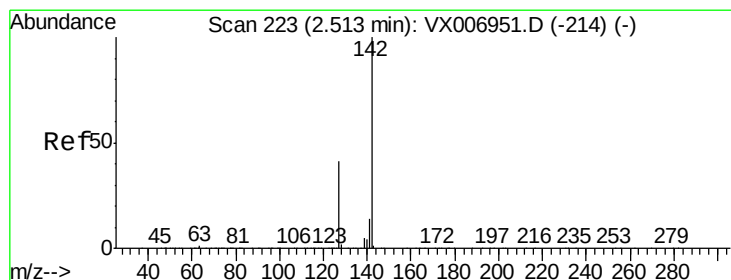
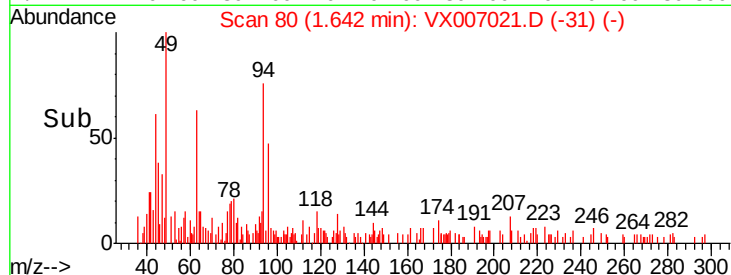
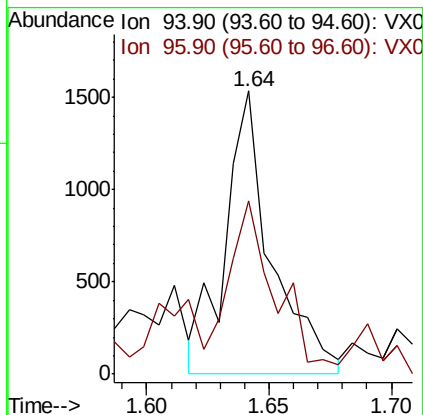
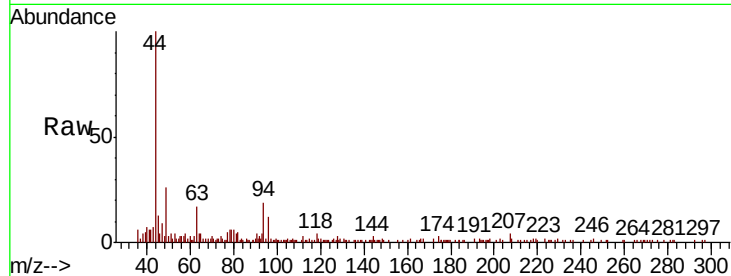
WP022MW102-190109

Tgt Ion: 94 Resp: 2010

Ion Ratio Lower Upper

94 100

96 61.2 73.4 110.2#



#10

Methyl Iodide

Concen: 0.599 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

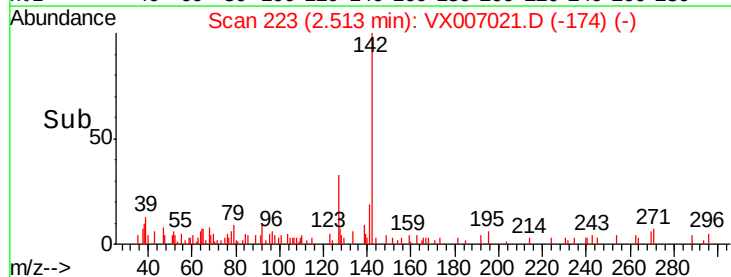
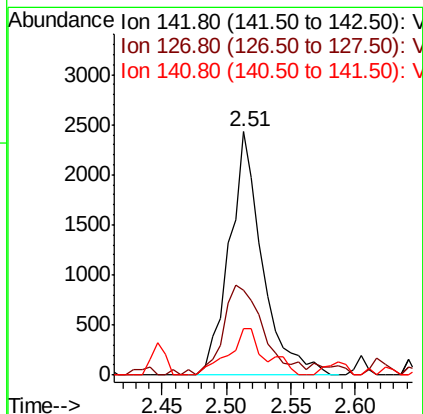
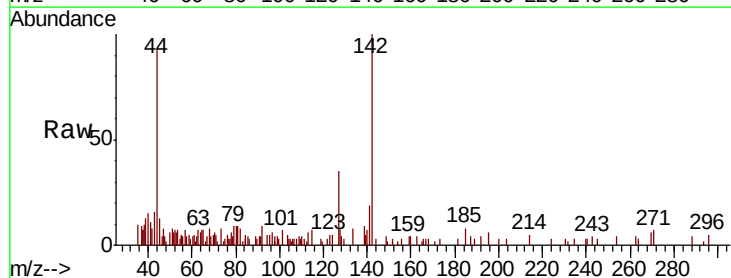
Tgt Ion: 142 Resp: 4329

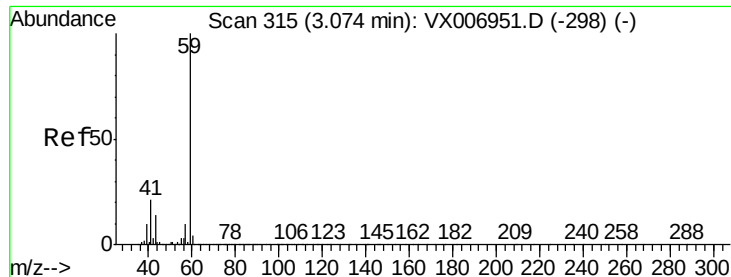
Ion Ratio Lower Upper

142 100

127 45.3 33.9 50.9

141 21.2 11.4 17.0#

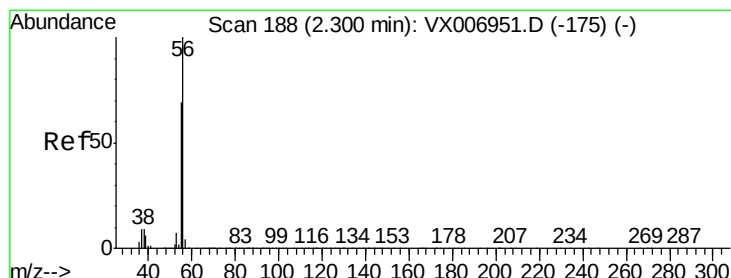
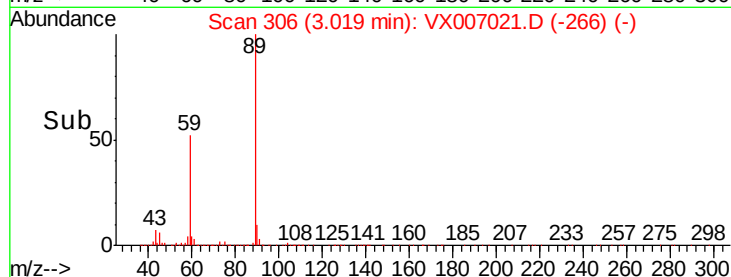
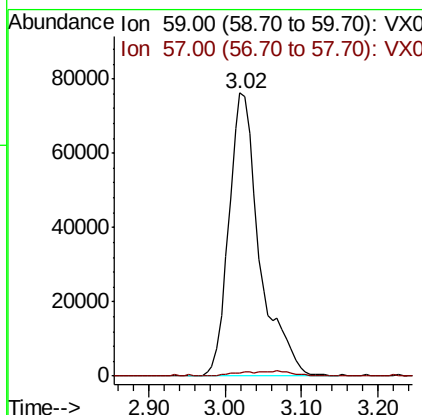
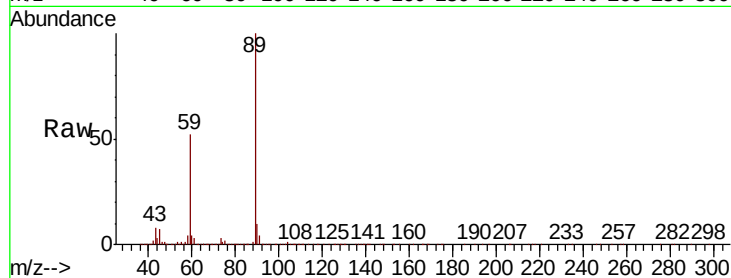




#11
Tert butyl alcohol
Concen: 158.682 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

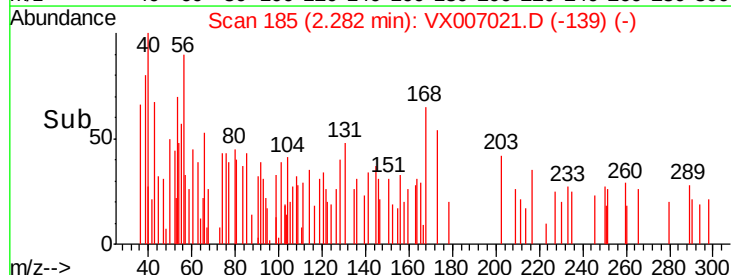
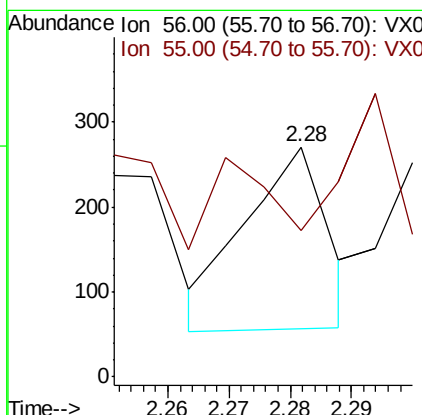
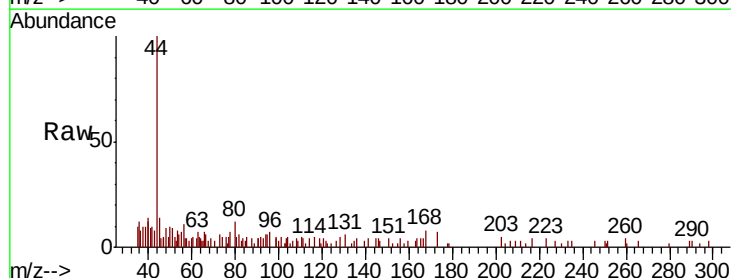
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190109

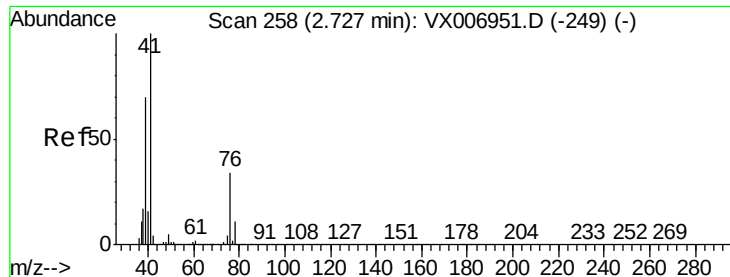
Tgt Ion: 59 Resp: 210587
Ion Ratio Lower Upper
59 100
57 1.2 8.5 12.7#



#13
Acrolein
Concen: 3.433 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.02 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion: 56 Resp: 202
Ion Ratio Lower Upper
56 100
55 97.5 58.2 87.4#

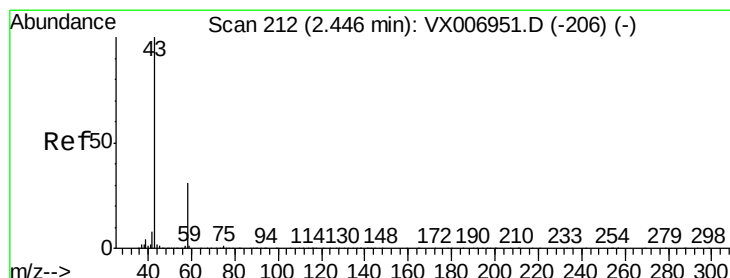
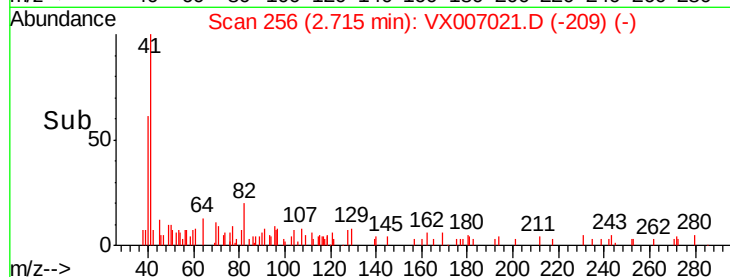
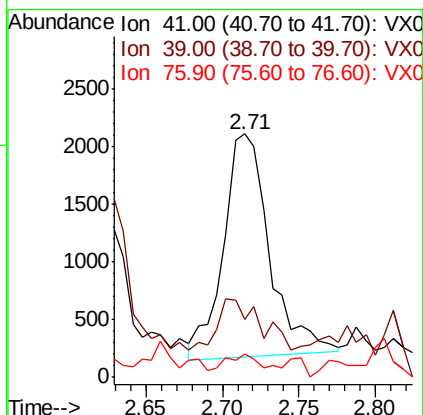
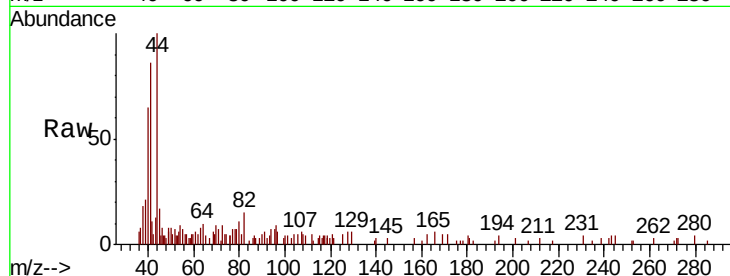




#14
 Allyl chloride
 Concen: 0.480 ug/l
 RT: 2.71 min Scan# 256
 Delta R.T. -0.01 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

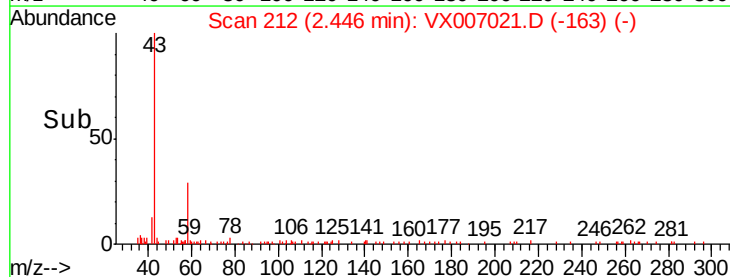
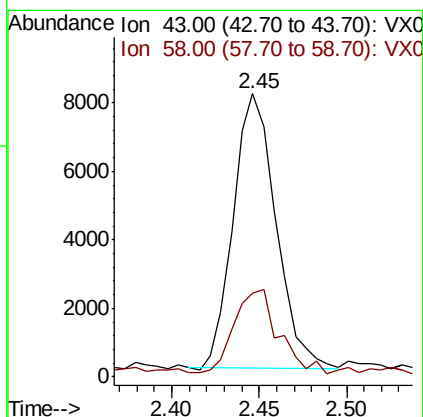
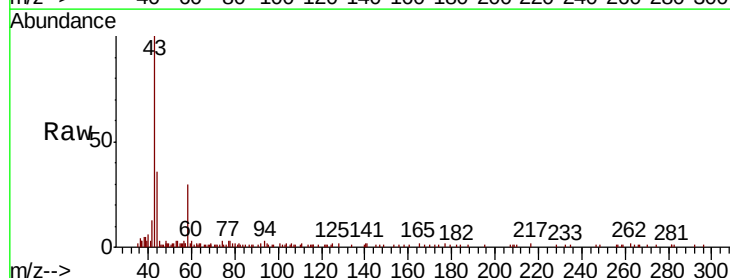
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190109

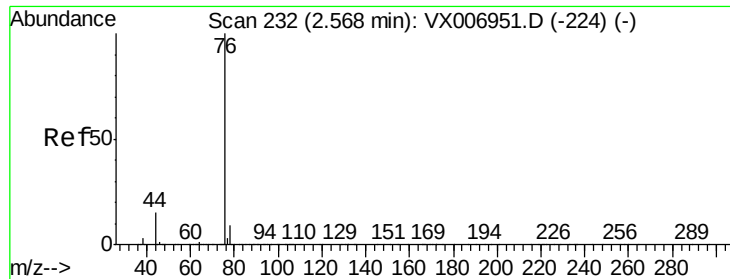
Tgt Ion: 41 Resp: 4069
 Ion Ratio Lower Upper
 41 100
 39 26.1 53.6 80.4#
 76 7.2 27.4 41.2#



#16
 Acetone
 Concen: 4.887 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

Tgt Ion: 43 Resp: 13593
 Ion Ratio Lower Upper
 43 100
 58 28.7 25.0 37.6

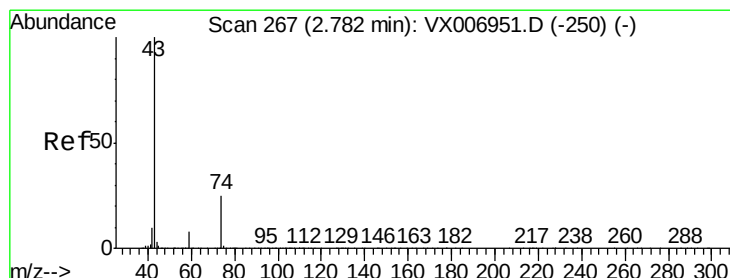
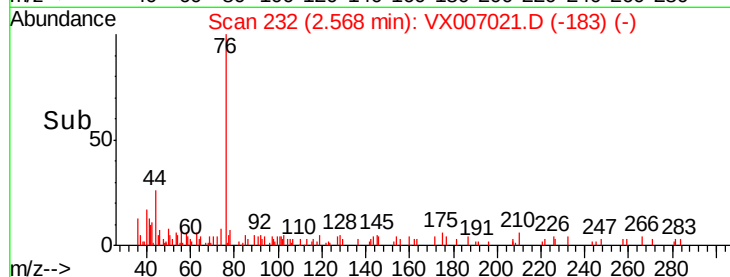
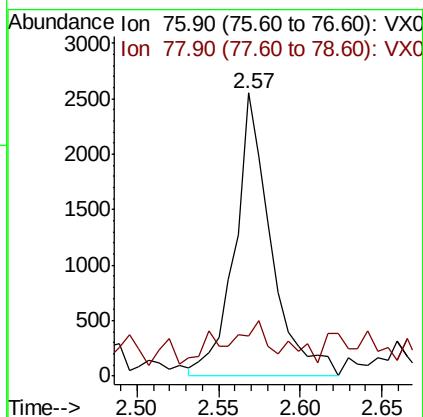
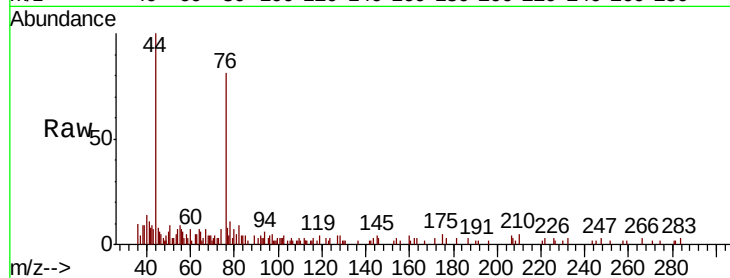




#17
Carbon Disulfide
Concen: 0.308 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

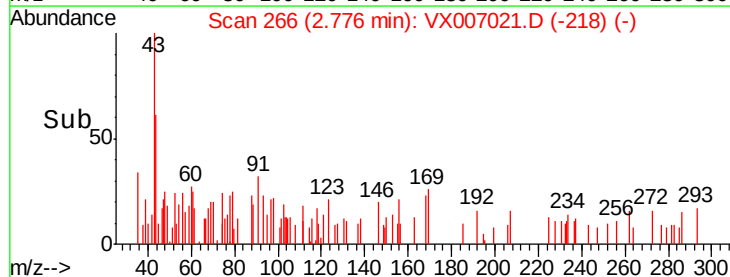
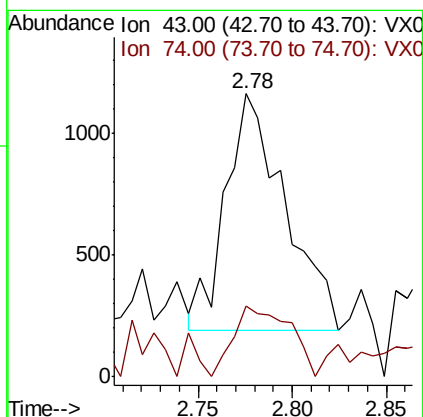
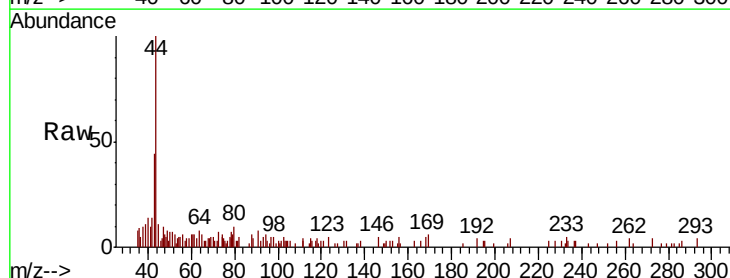
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ClientSampleId :
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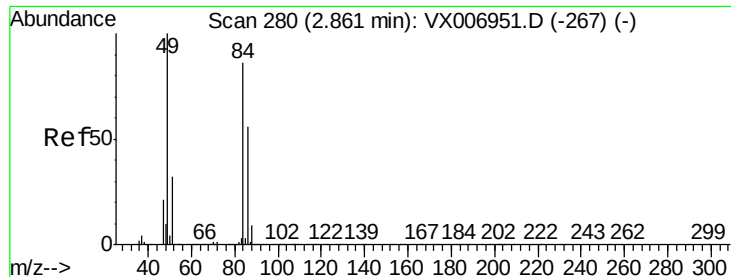
Tgt Ion: 76 Resp: 3919
Ion Ratio Lower Upper
76 100
78 7.5 7.0 10.6



#18
Methyl Acetate
Concen: 0.265 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion: 43 Resp: 2138
Ion Ratio Lower Upper
43 100
74 28.1 18.6 28.0#

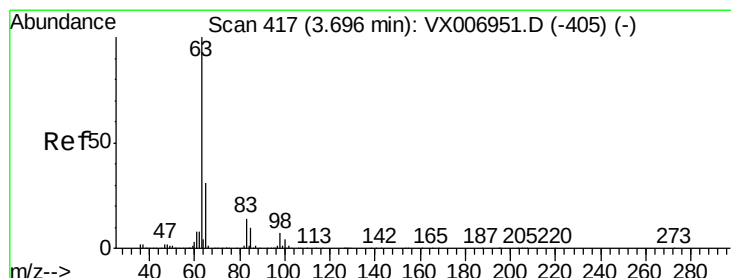
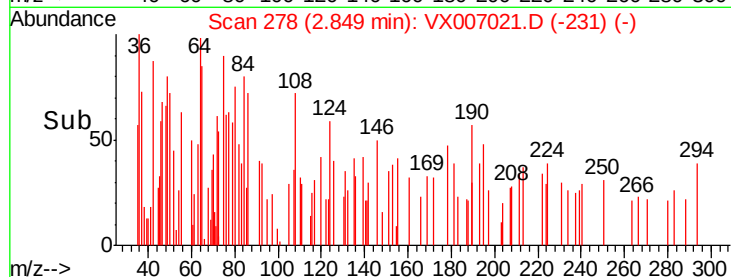
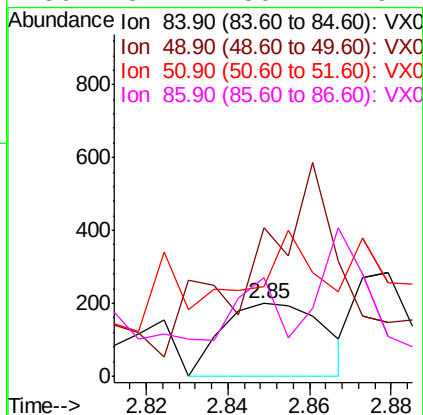
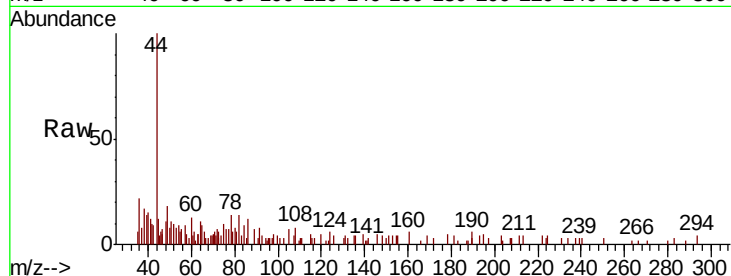




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

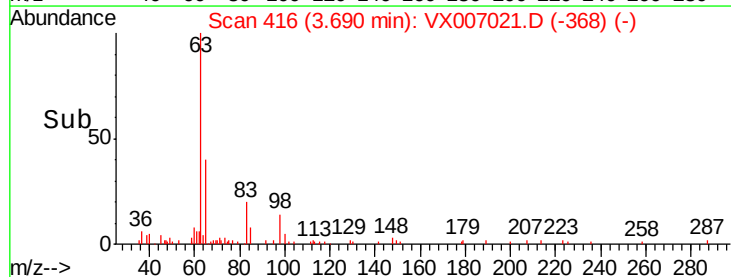
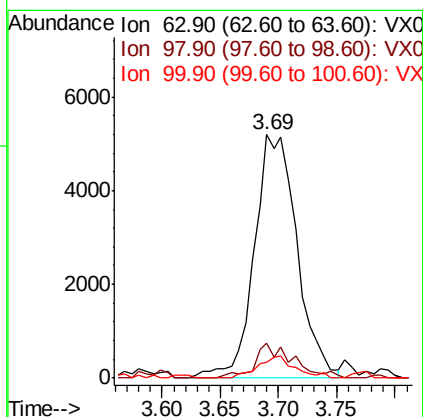
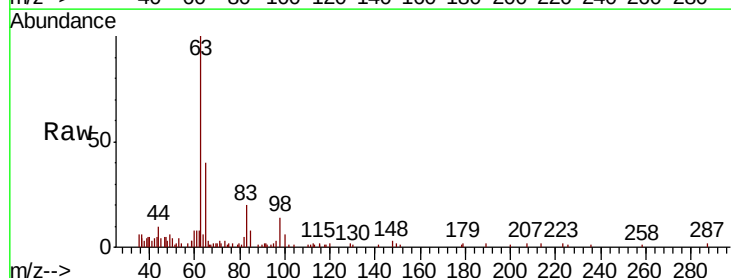
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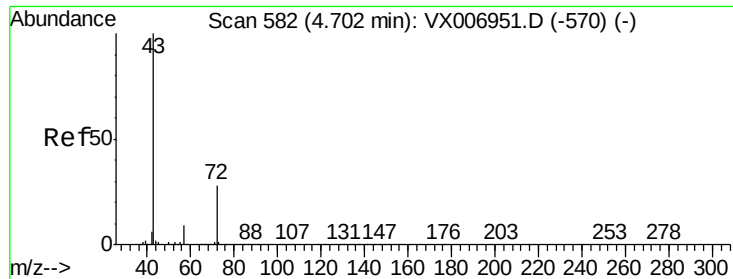
Tgt Ion: 84 Resp: 345
Ion Ratio Lower Upper
84 100
49 71.4 91.8 137.6#
51 32.2 28.5 42.7
86 84.4 50.2 75.2#



#24
1,1-Dichloroethane
Concen: 1.480 ug/l
RT: 3.69 min Scan# 416
Delta R.T. -0.01 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion: 63 Resp: 13192
Ion Ratio Lower Upper
63 100
98 14.1 3.9 11.5#
100 6.3 2.4 7.2





#25

2-Butanone

Concen: 3.297 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.05 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

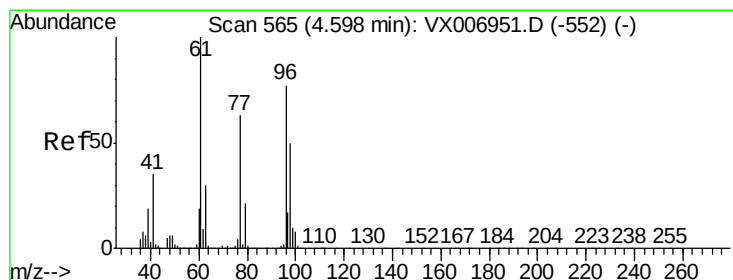
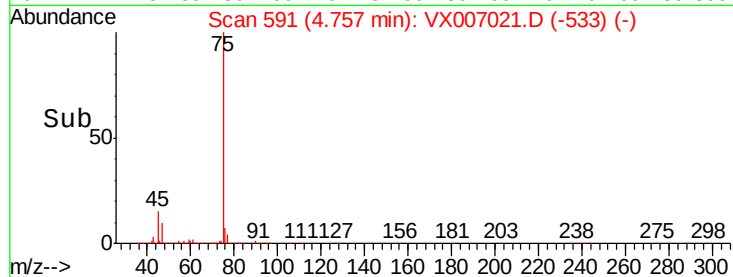
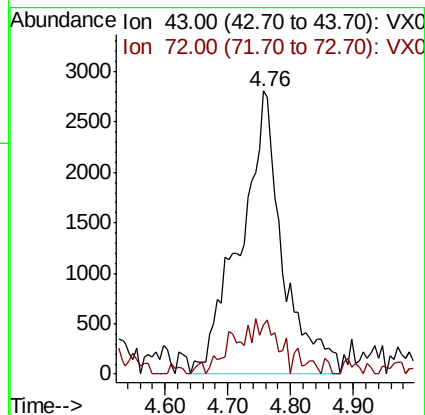
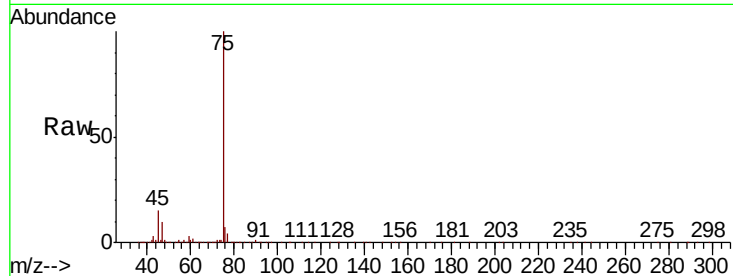
WP022MW102-190109

Tgt Ion: 43 Resp: 13120

Ion Ratio Lower Upper

43 100

72 17.3 22.4 33.6#



#27

cis-1,2-Dichloroethene

Concen: 0.491 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

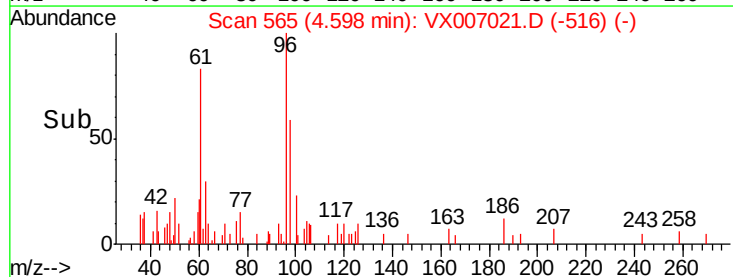
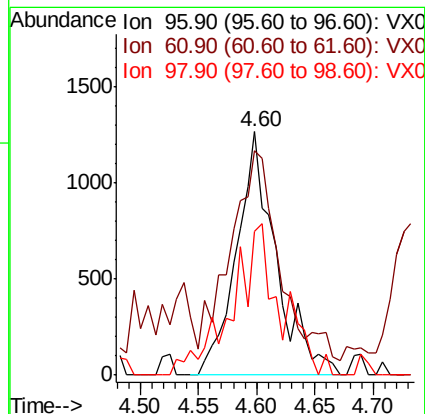
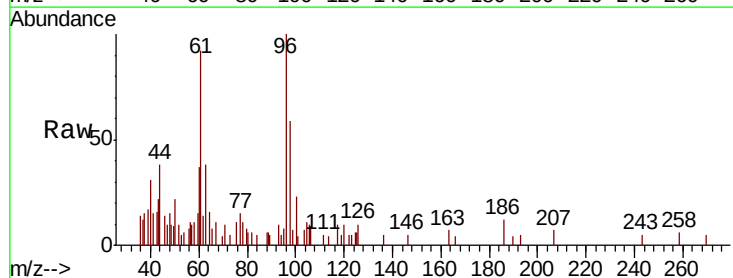
Tgt Ion: 96 Resp: 2986

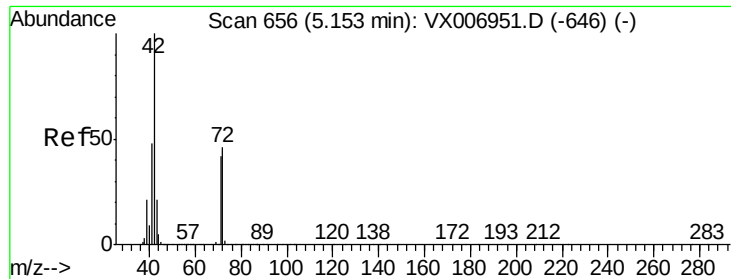
Ion Ratio Lower Upper

96 100

61 95.5 0.0 258.6

98 62.3 0.0 132.0

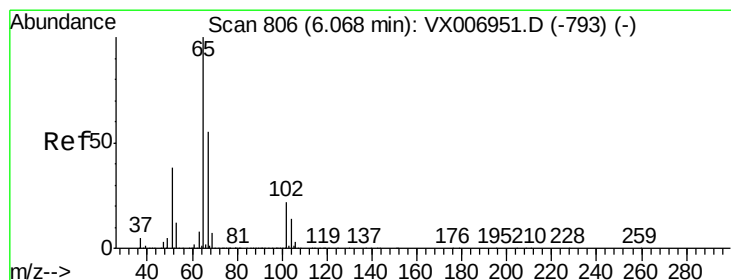
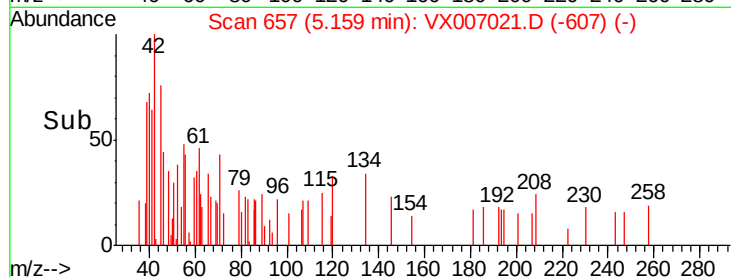
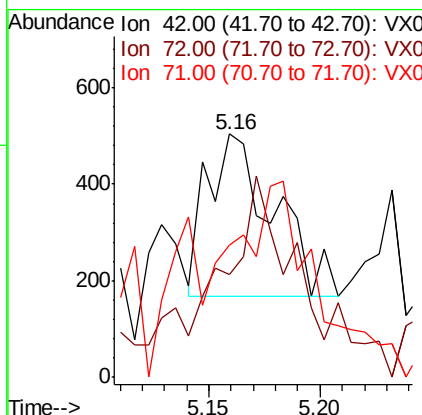
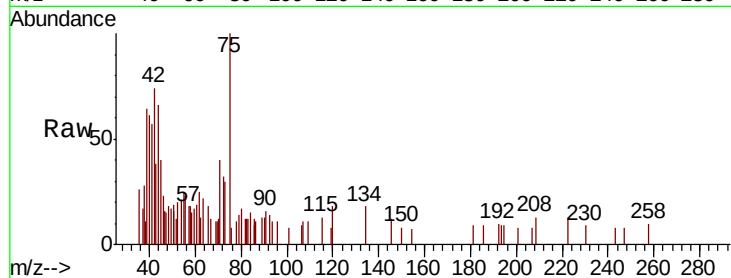




#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

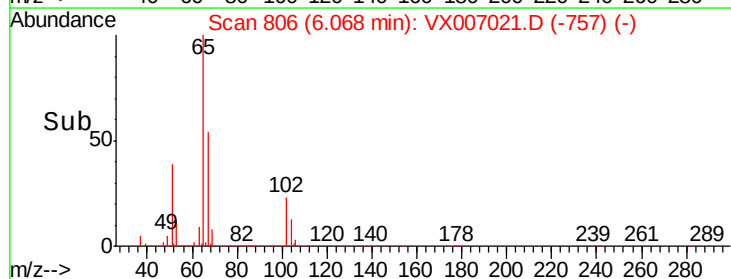
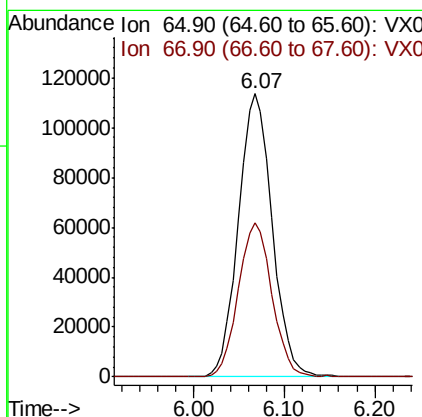
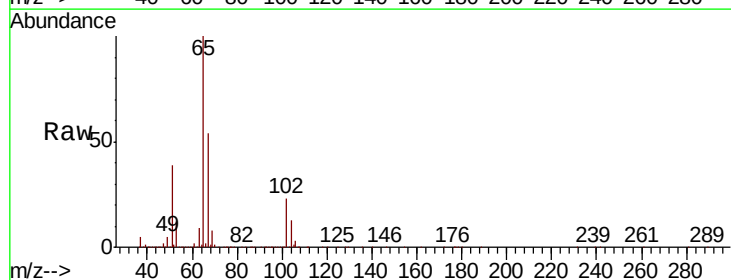
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190109

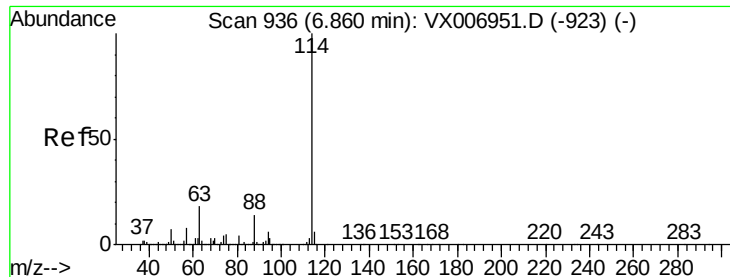
Tgt Ion: 42 Resp: 695
Ion Ratio Lower Upper
42 100
72 162.6 38.9 58.3#
71 0.0 36.2 54.4#



#33
1,2-Dichloroethane-d4
Concen: 52.140 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion: 65 Resp: 293333
Ion Ratio Lower Upper
65 100
67 54.1 0.0 105.0

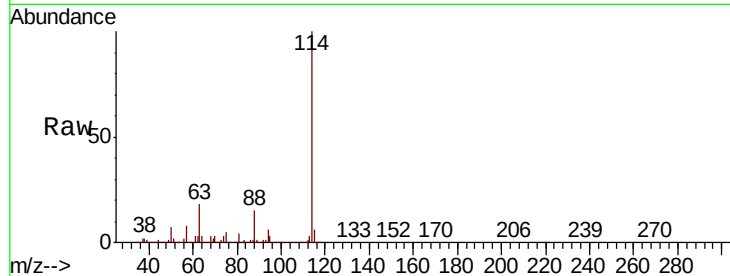




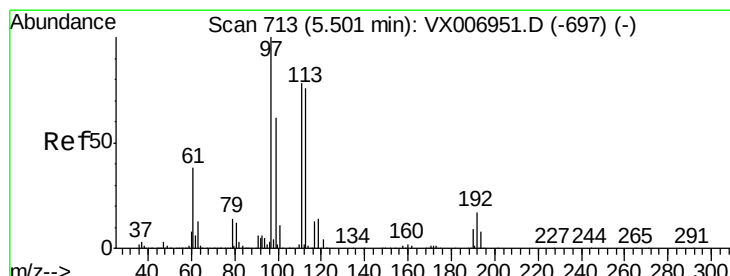
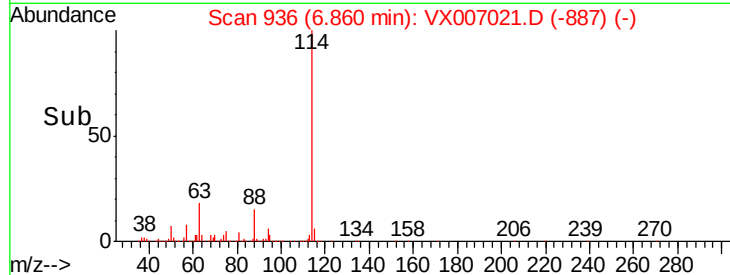
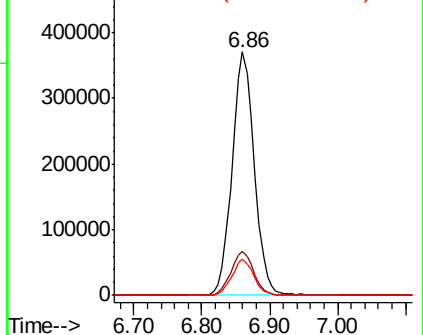
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190109

Tgt Ion:	114	Resp:	839543
Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	34.8
88	15.0	0.0	28.8

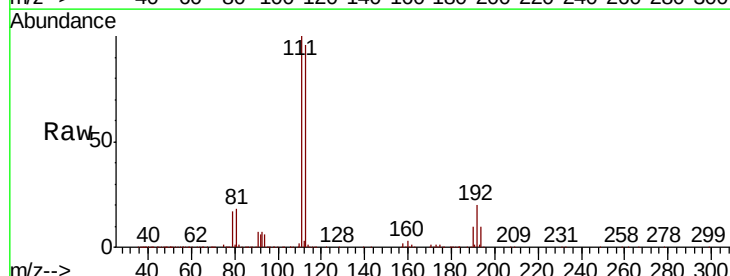


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

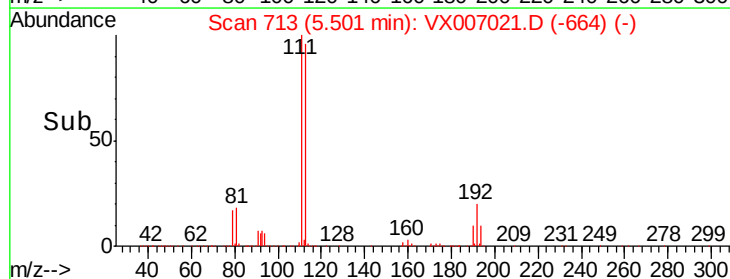
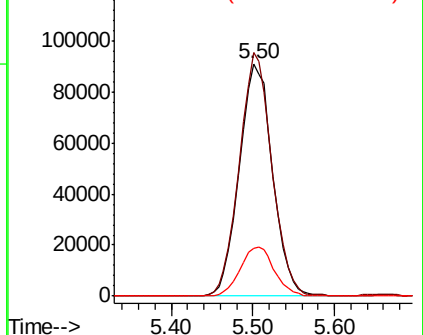


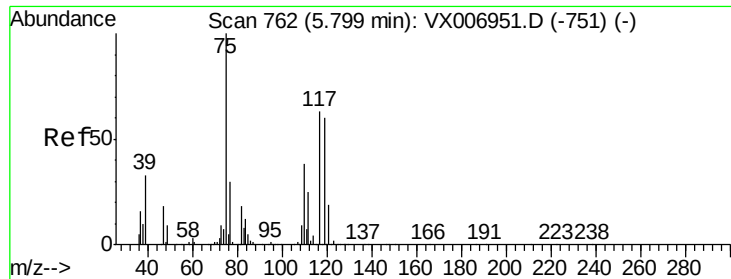
#35
 Dibromofluoromethane
 Concen: 48.218 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

Tgt Ion:	113	Resp:	259236
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.6	122.4
192	21.8	16.7	25.1



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

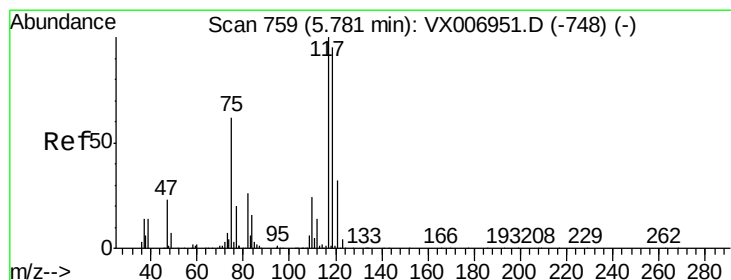
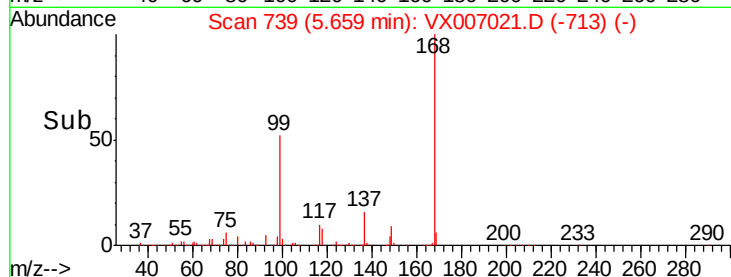
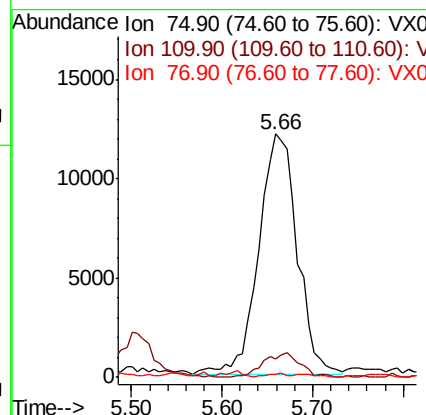
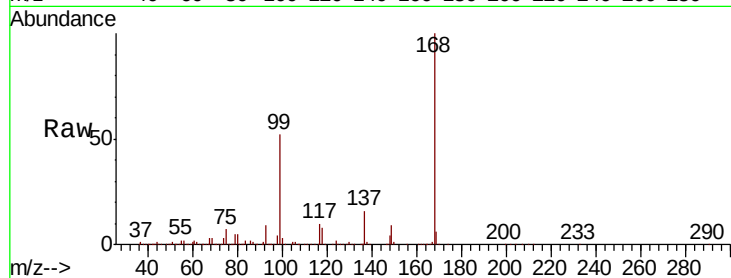




#36
 1,1-Dichloropropene
 Concen: 4.846 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

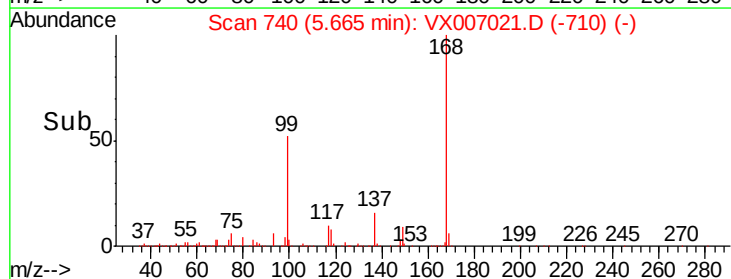
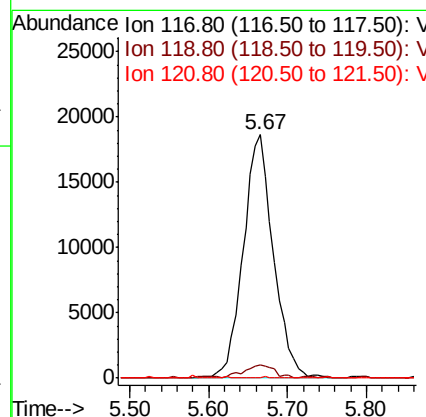
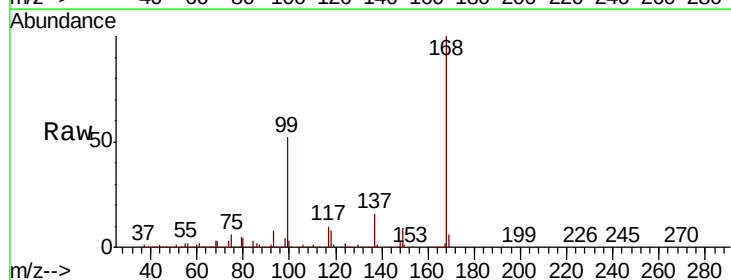
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190109

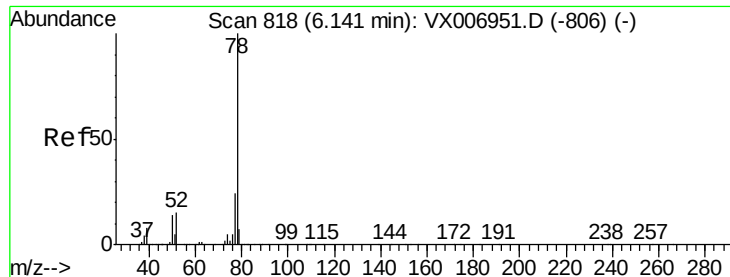
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	20.2	60.5#
77	0.9	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.747 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007021.D
 Acq: 11 Jan 2019 18:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	79.4	119.2#
121	0.0	24.0	36.0#





#40

Benzene

Concen: 0.410 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

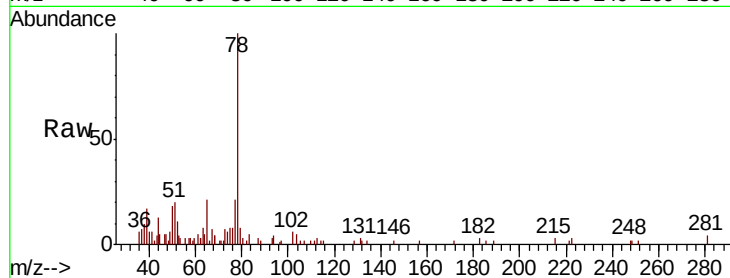
WP022MW102-190109

Tgt Ion: 78 Resp: 9132

Ion Ratio Lower Upper

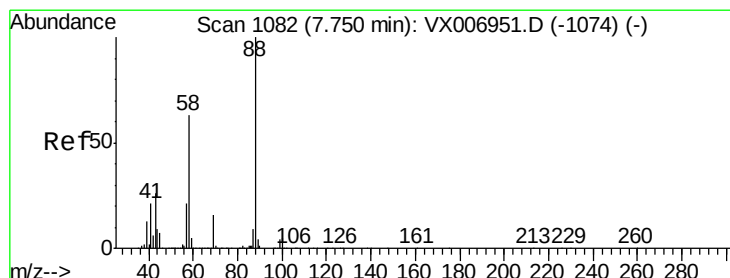
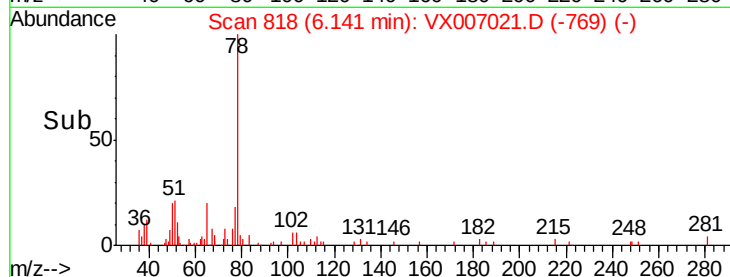
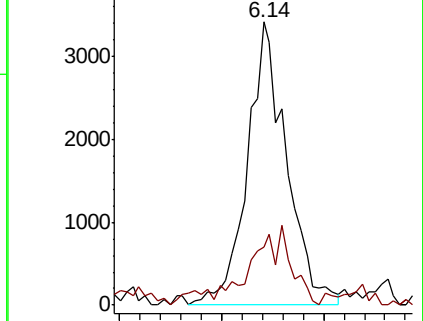
78 100

77 18.4 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#49

1,4-Dioxane

Concen: 8.416 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

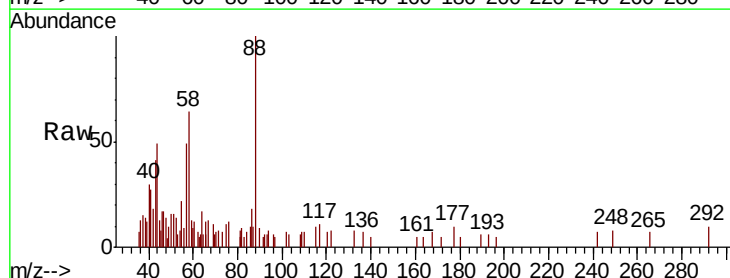
Tgt Ion: 88 Resp: 2450

Ion Ratio Lower Upper

88 100

43 63.6 22.2 33.4#

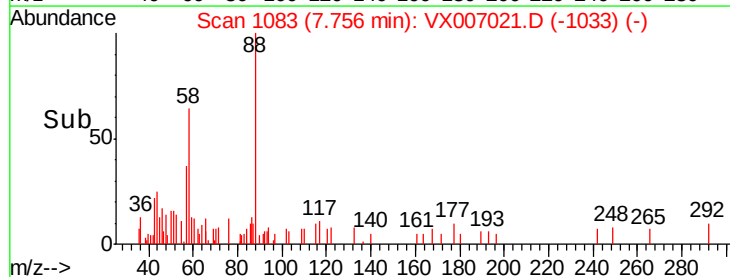
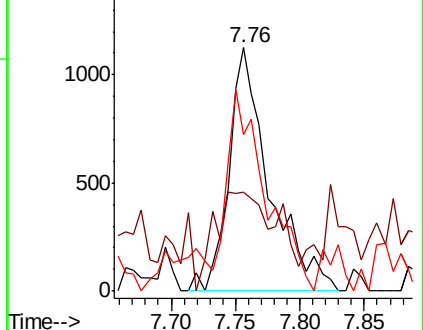
58 80.2 51.0 76.4#

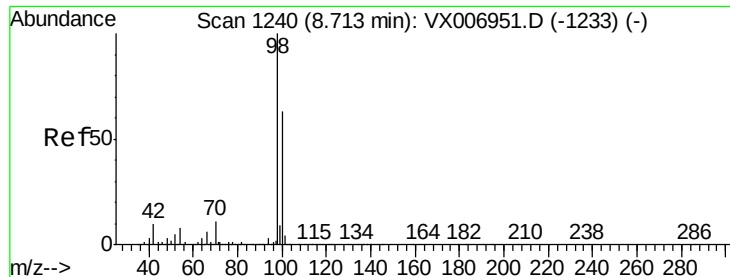


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.001 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

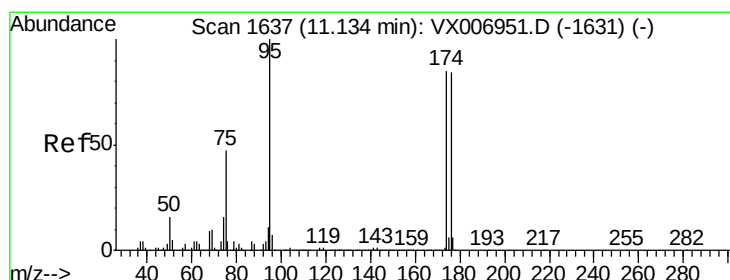
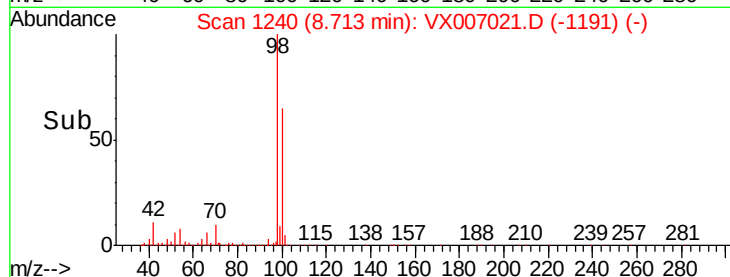
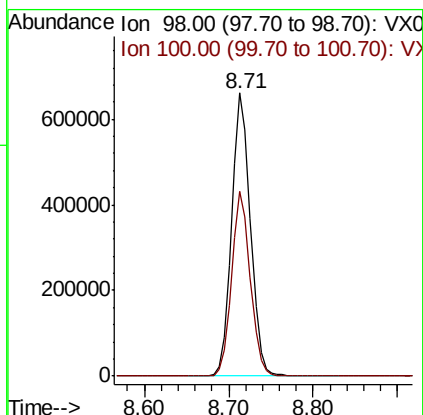
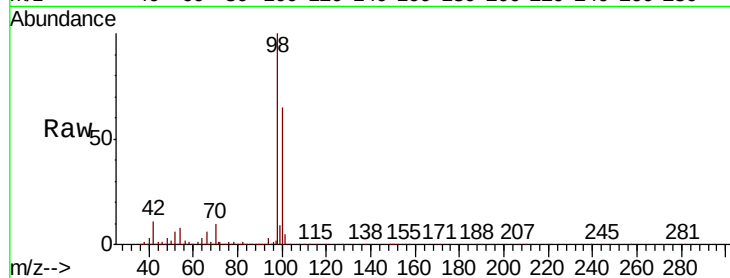
WP022MW102-190109

Tgt Ion: 98 Resp: 1003664

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 52.831 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

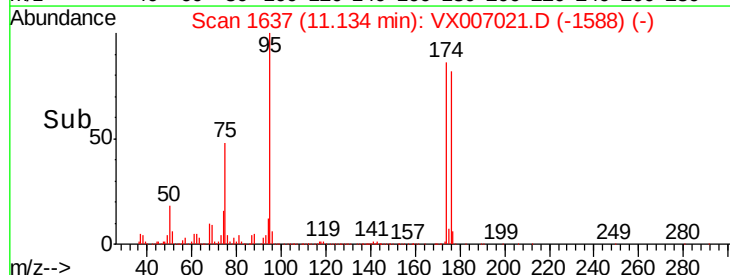
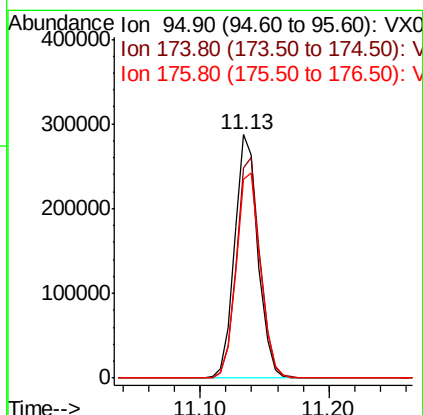
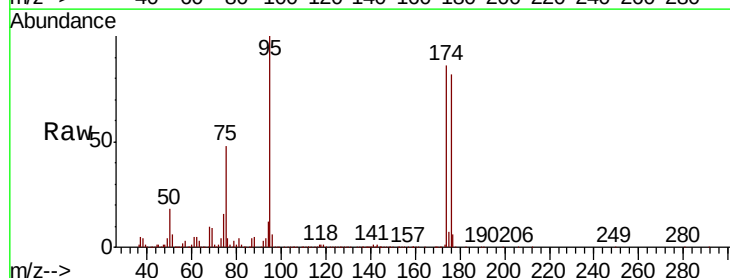
Tgt Ion: 95 Resp: 362453

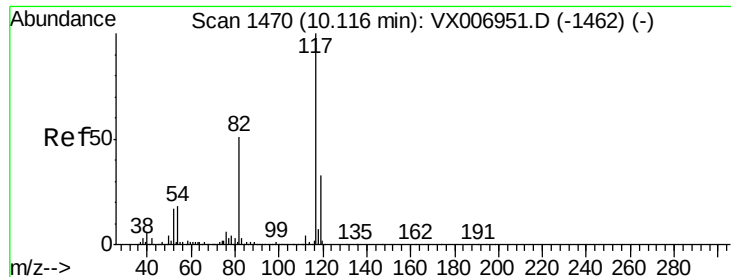
Ion Ratio Lower Upper

95 100

174 92.0 0.0 182.2

176 88.1 0.0 178.8

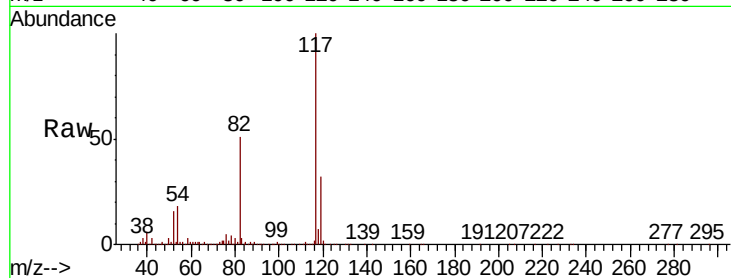




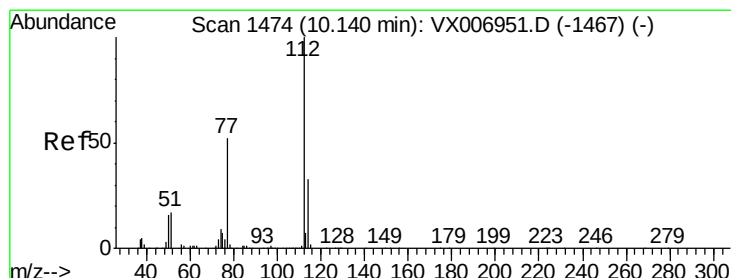
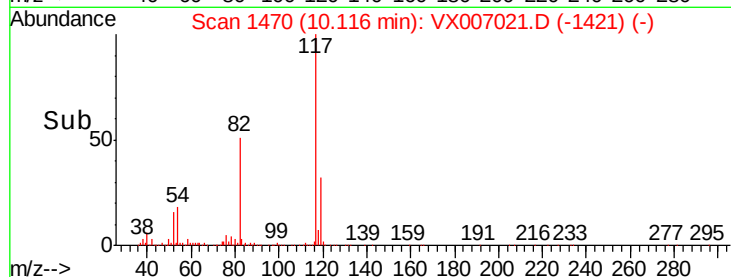
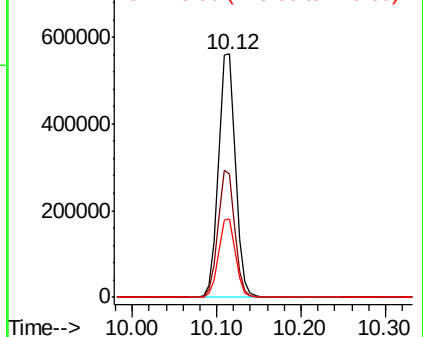
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190109

Tgt Ion:117 Resp: 790988
Ion Ratio Lower Upper
117 100
82 50.6 41.0 61.6
119 32.3 25.4 38.0

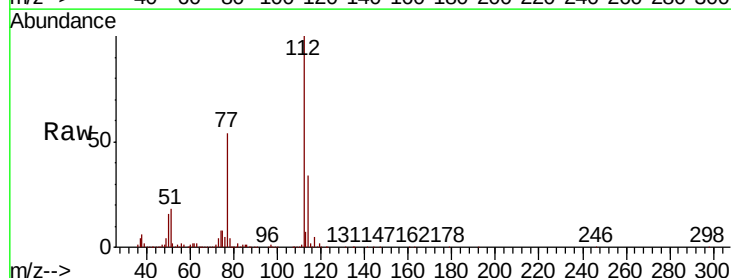


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

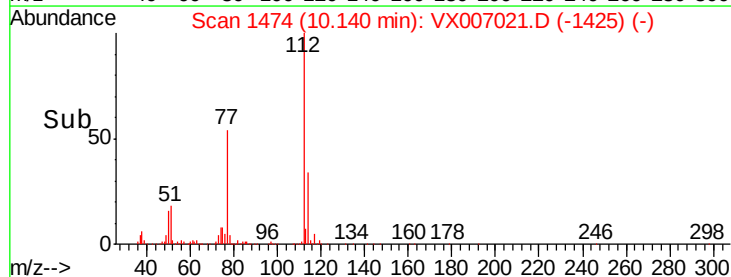
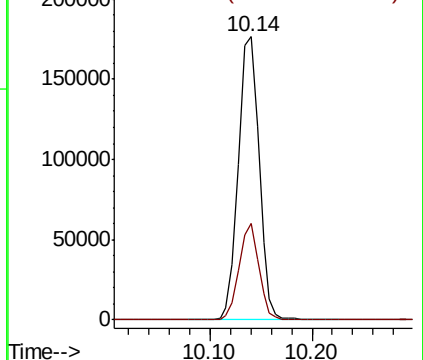


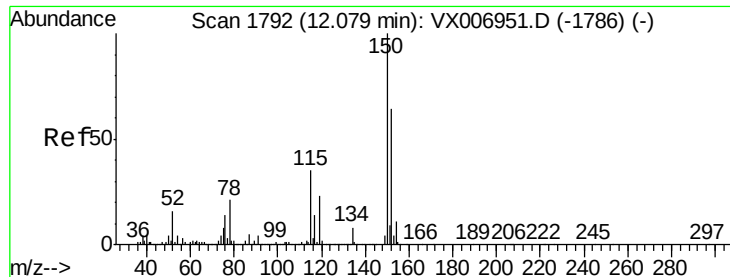
#65
Chlorobenzene
Concen: 14.399 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion:112 Resp: 248415
Ion Ratio Lower Upper
112 100
114 34.0 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

WP022MW102-190109

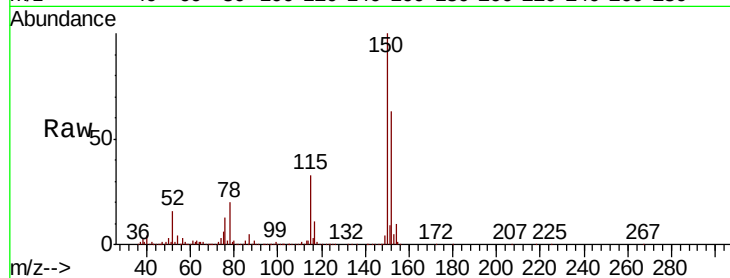
Tgt Ion: 152 Resp: 390494

Ion Ratio Lower Upper

152 100

115 54.2 39.1 117.2

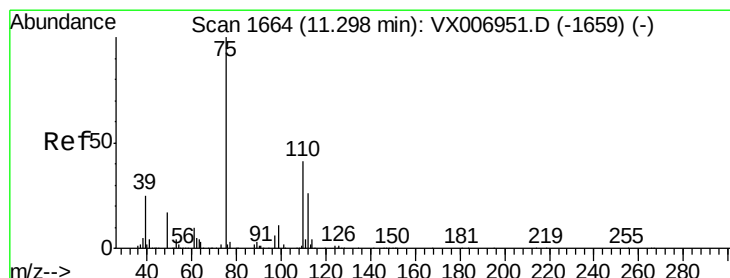
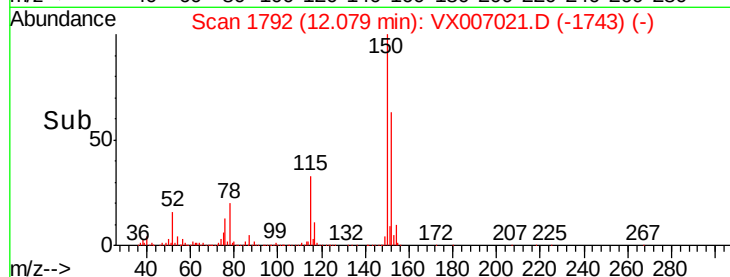
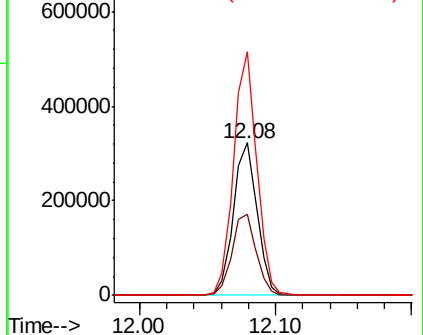
150 156.2 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 21.824 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007021.D

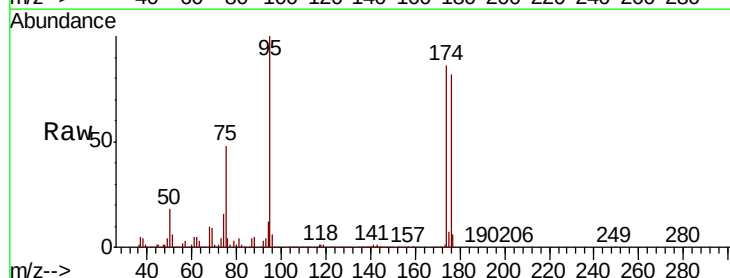
Acq: 11 Jan 2019 18:36

Tgt Ion: 75 Resp: 172695

Ion Ratio Lower Upper

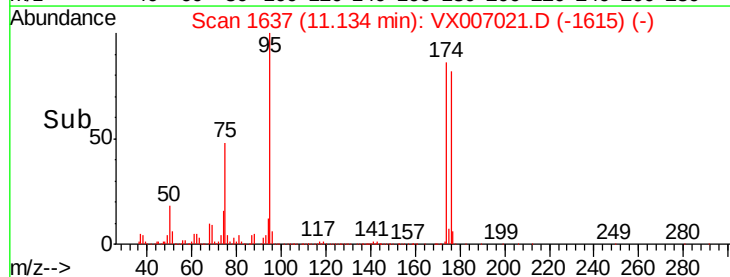
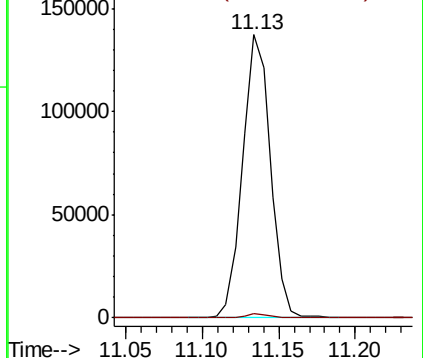
75 100

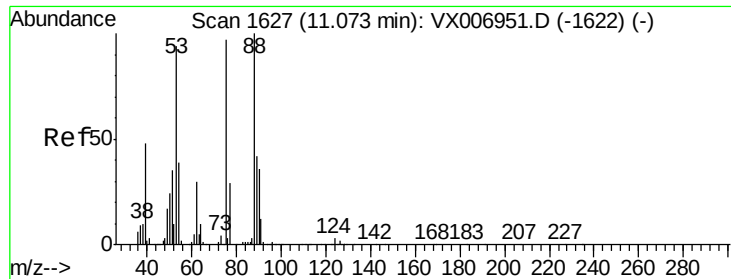
77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

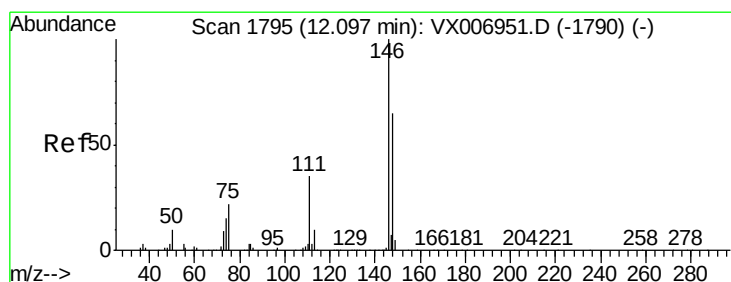
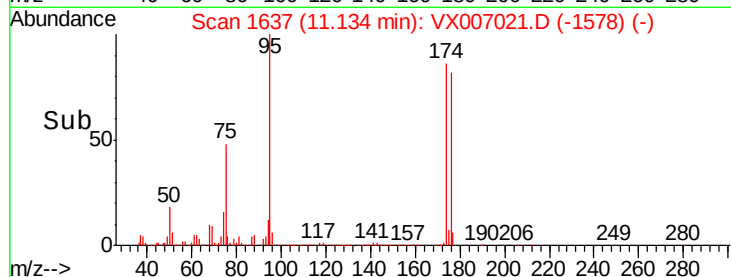
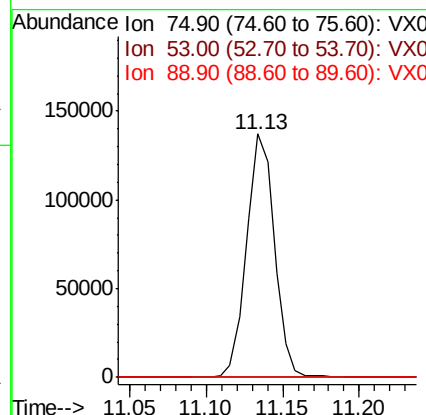
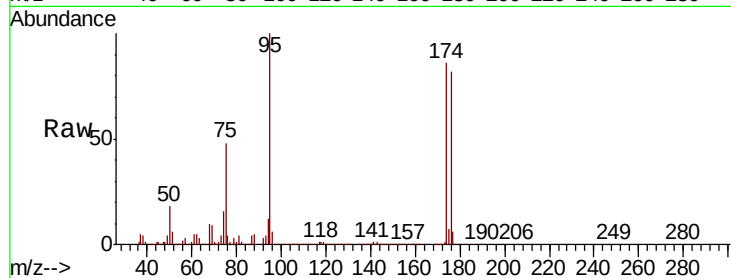




#81
trans-1,4-Dichloro-2-butene
Concen: 64.661 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

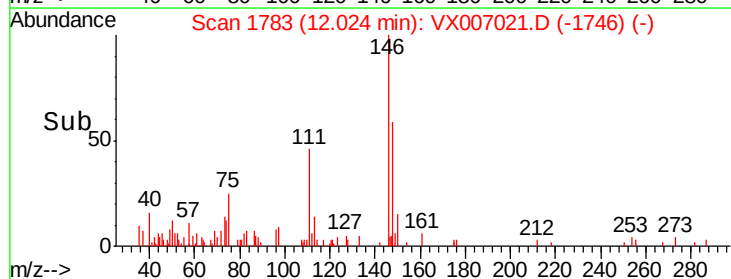
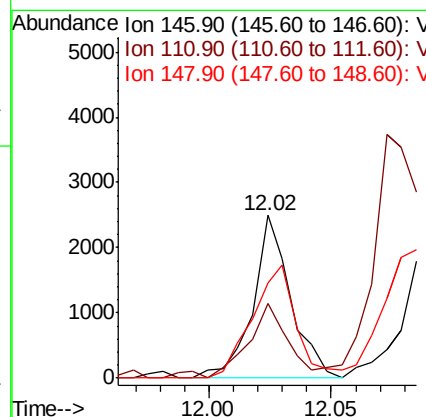
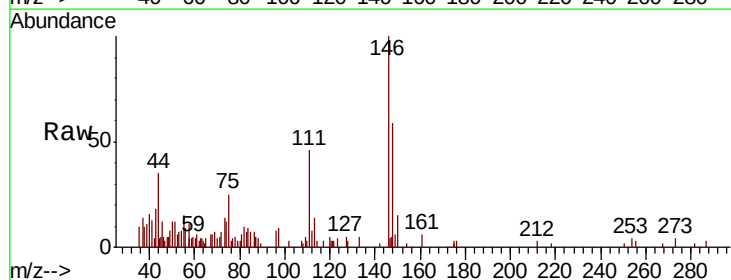
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190109

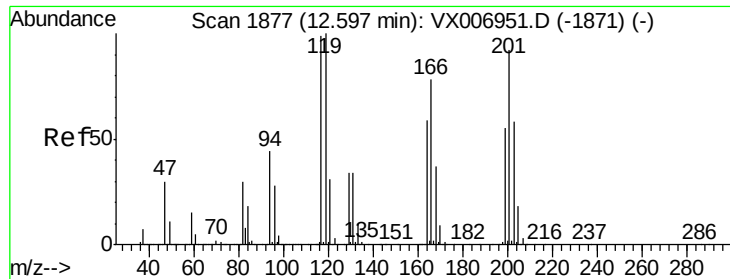
Tgt Ion: 75 Resp: 172695
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.0 38.0 57.0#



#88
1,4-Dichlorobenzene
Concen: 0.352 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. -0.07 min
Lab File: VX007021.D
Acq: 11 Jan 2019 18:36

Tgt Ion: 146 Resp: 2697
Ion Ratio Lower Upper
146 100
111 49.2 18.1 54.1
148 80.9 31.9 95.9





#90

Hexachloroethane

Concen: 2.916 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

Instrument :

MSVOA_X

ClientSampleId :

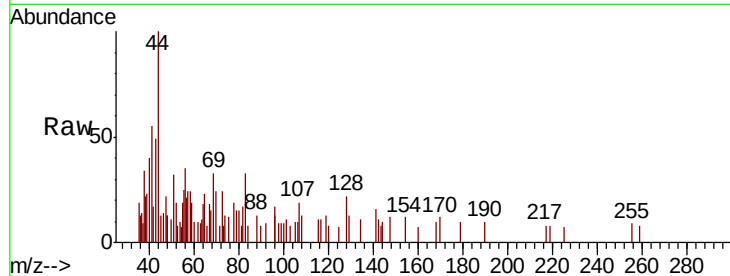
WP022MW102-190109

Tgt Ion:117 Resp: 31

Ion Ratio Lower Upper

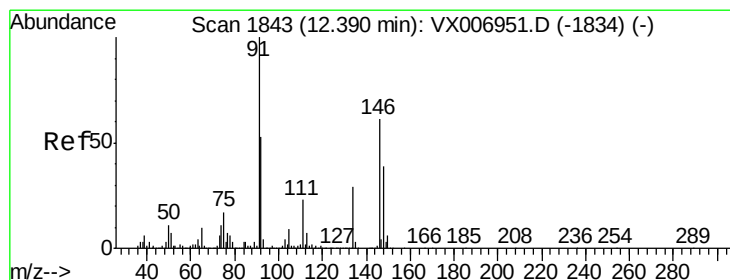
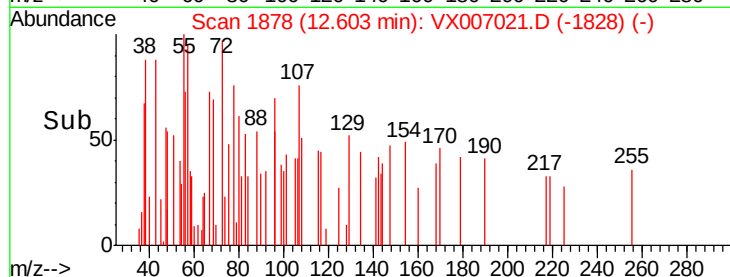
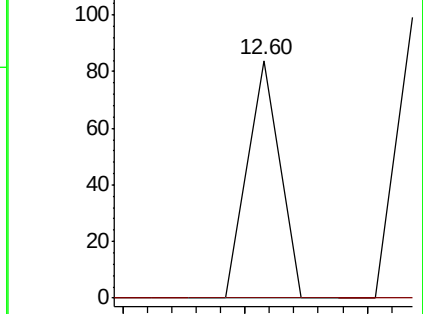
117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.477 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX007021.D

Acq: 11 Jan 2019 18:36

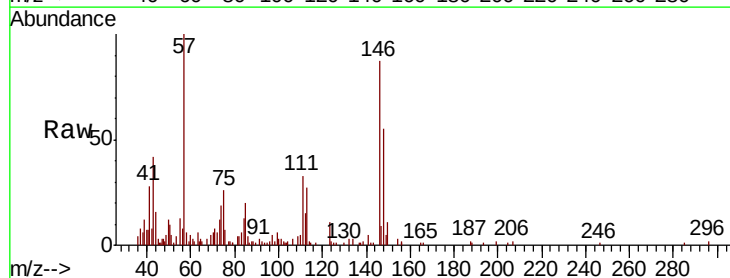
Tgt Ion:146 Resp: 6452

Ion Ratio Lower Upper

146 100

111 36.7 19.4 58.2

148 64.4 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

