

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014273.D
 Acq On : 26 Dec 2019 16:44
 Operator : JC/SP
 Sample : K6405-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 996-MW-15-(17)

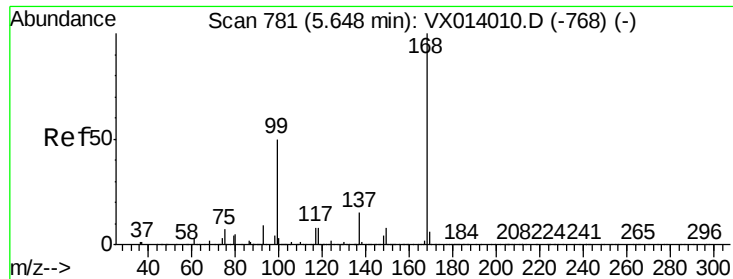
Quant Time: Dec 27 06:03:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	524511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	812062	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	727039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	312996	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	296363	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
35) Dibromofluoromethane	5.49	113	241412	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
50) Toluene-d8	8.71	98	963670	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.13	95	323949	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1695	0.359	ug/l #	53
6) Chloroethane	1.70	64	1554	0.379	ug/l #	66
10) Methyl Iodide	2.53	142	800	2.737	ug/l #	43
11) Tert butyl alcohol	3.03	59	3738	2.910	ug/l #	81
13) Acrolein	2.30	56	152	0.207	ug/l	84
16) Acetone	2.44	43	15403	3.991	ug/l	95
17) Carbon Disulfide	2.58	76	831	0.809	ug/l #	7
20) Methylene Chloride	2.86	84	1226	0.202	ug/l #	81
25) 2-Butanone	4.67	43	1795	0.377	ug/l	96
28) Bromochloromethane	5.00	49	326	0.538	ug/l #	47
29) Tetrahydrofuran	5.10	42	656	0.246	ug/l #	1
31) Cyclohexane	5.65	56	8943	1.007	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	36079	4.842	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46018	6.779	ug/l #	15
49) 1,4-Dioxane	7.73	88	265	1.953	ug/l #	1
64) Tetrachloroethene	9.33	164	3519	0.547	ug/l	86
76) 1,2,3-Trichloropropane	11.13	75	154437	22.728	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	154437	64.150	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

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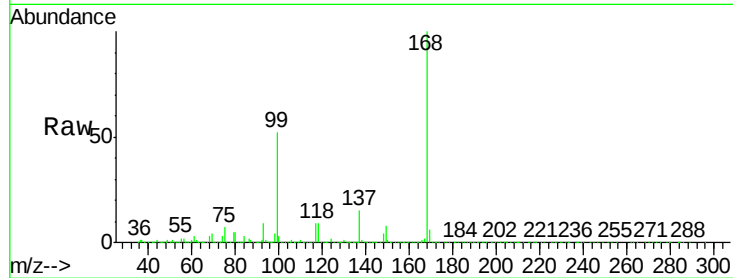
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Tgt Ion: 168 Resp: 524511

Ion Ratio Lower Upper

168 100

99 51.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

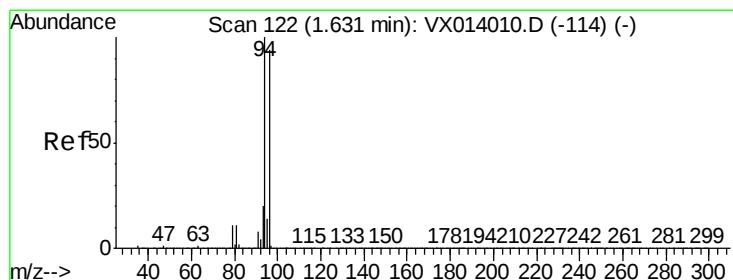
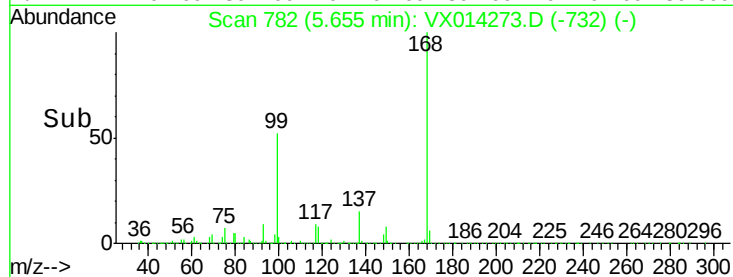
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.359 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014273.D

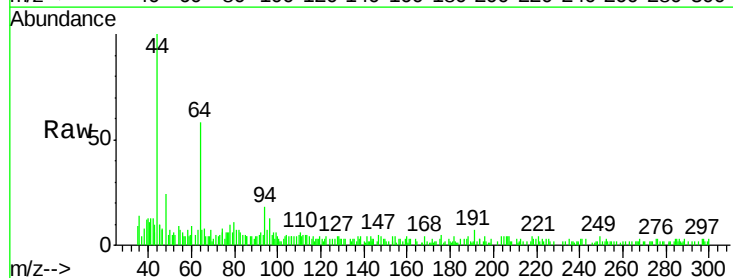
Acq: 26 Dec 2019 16:44

Tgt Ion: 94 Resp: 1695

Ion Ratio Lower Upper

94 100

96 48.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

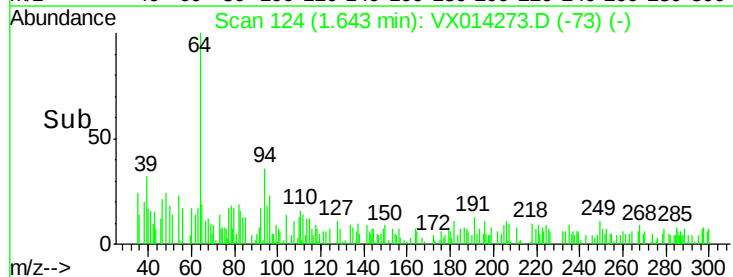
400

200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.379 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

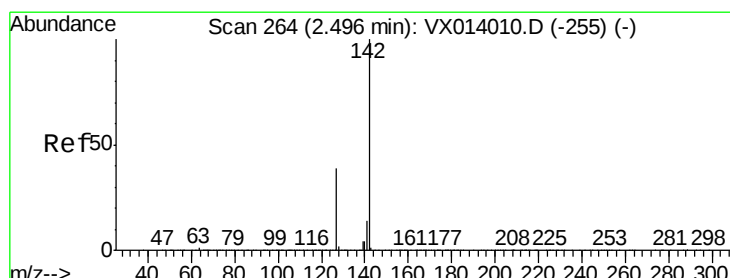
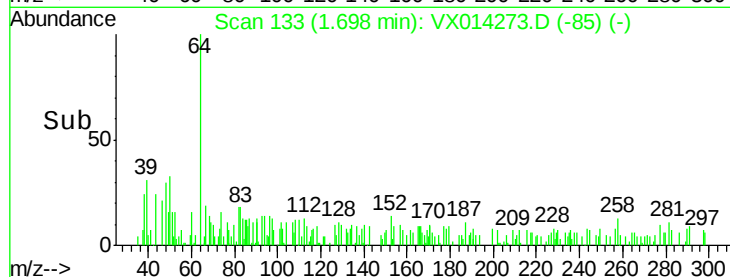
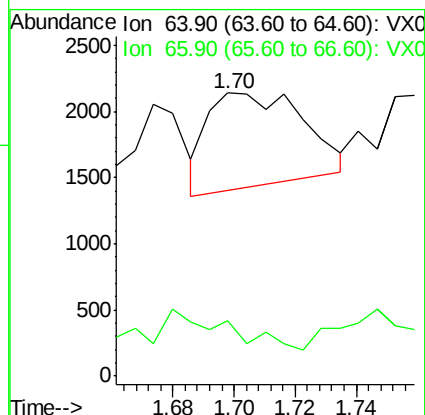
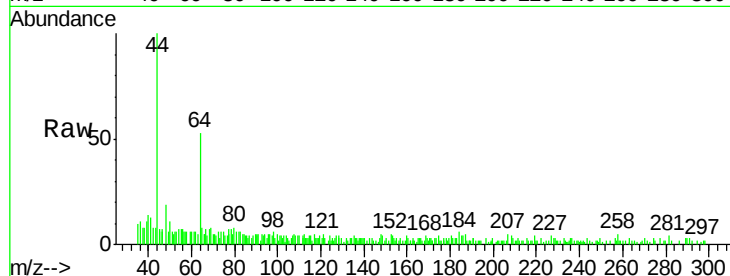
996-MW-15-(17)

Tgt Ion: 64 Resp: 1554

Ion Ratio Lower Upper

64 100

66 11.3 23.4 35.2#



#10

Methyl Iodide

Concen: 2.737 ug/l

RT: 2.53 min Scan# 269

Delta R.T. 0.03 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

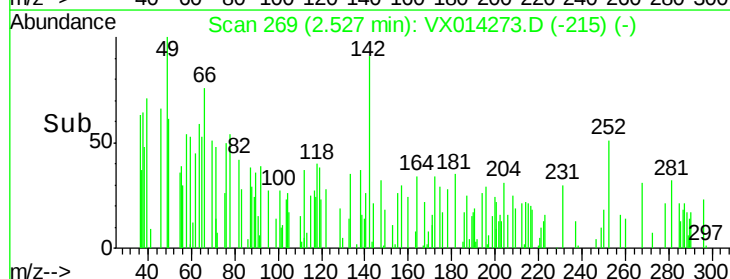
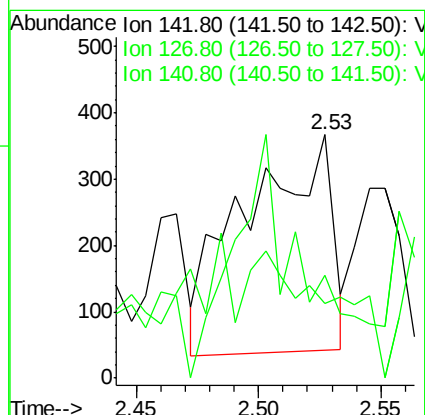
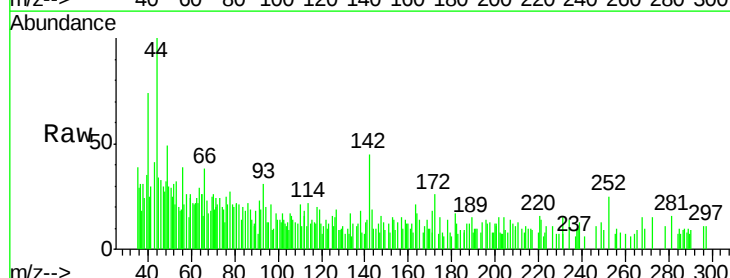
Tgt Ion: 142 Resp: 800

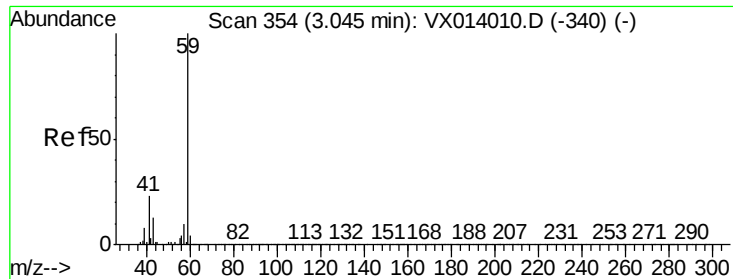
Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

141 0.0 11.6 17.4#



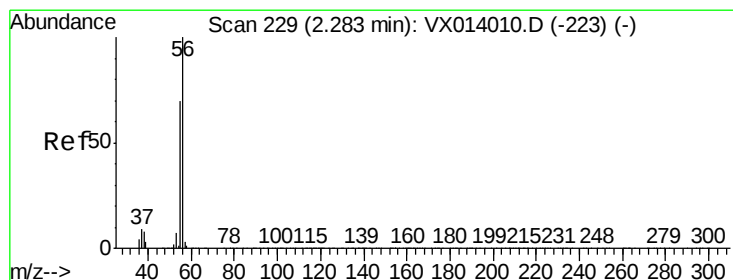
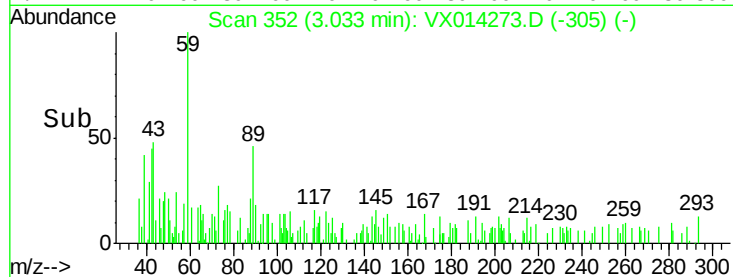
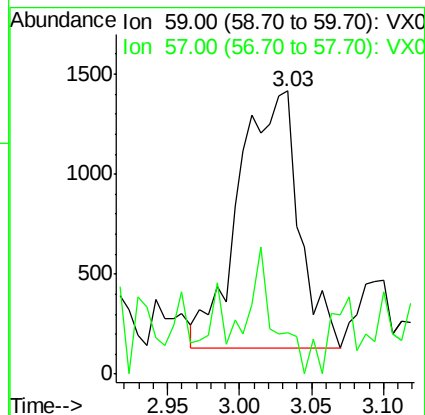
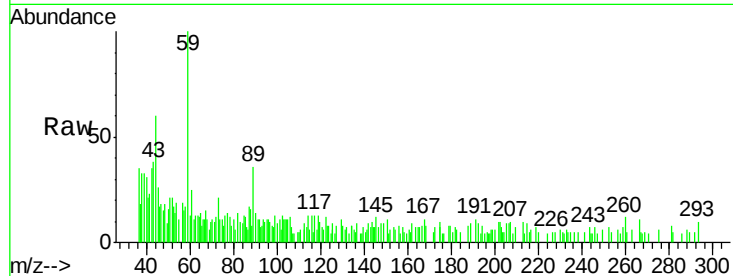


#11

Tert butyl alcohol
 Concen: 2.910 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX014273.D
 Acq: 26 Dec 2019 16:44

Instrument :
 MSVOA_X
 ClientSampleId :
 996-MW-15-(17)

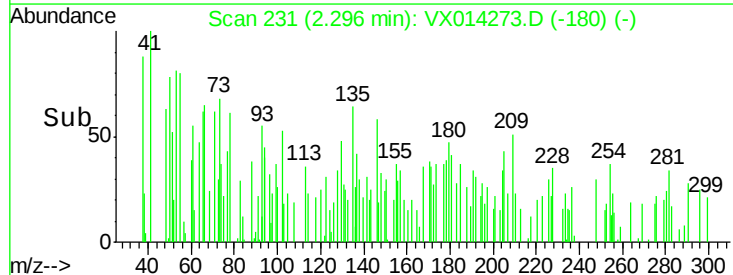
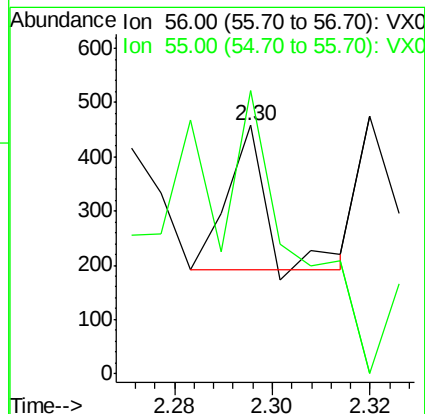
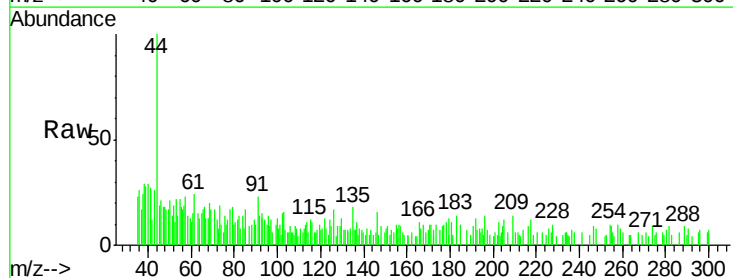
Tgt Ion: 59 Resp: 3738
 Ion Ratio Lower Upper
 59 100
 57 17.7 8.4 12.6#

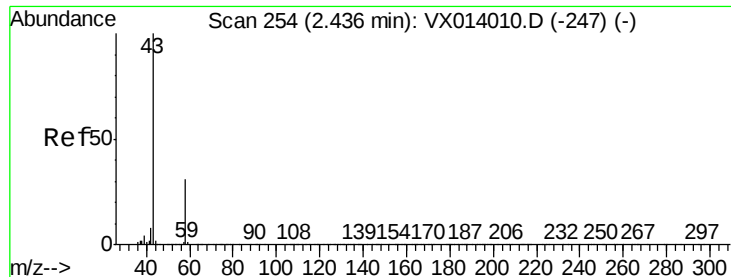


#13

Acrolein
 Concen: 0.207 ug/l
 RT: 2.30 min Scan# 231
 Delta R.T. 0.01 min
 Lab File: VX014273.D
 Acq: 26 Dec 2019 16:44

Tgt Ion: 56 Resp: 152
 Ion Ratio Lower Upper
 56 100
 55 57.9 56.9 85.3





#16

Acetone

Concen: 3.991 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

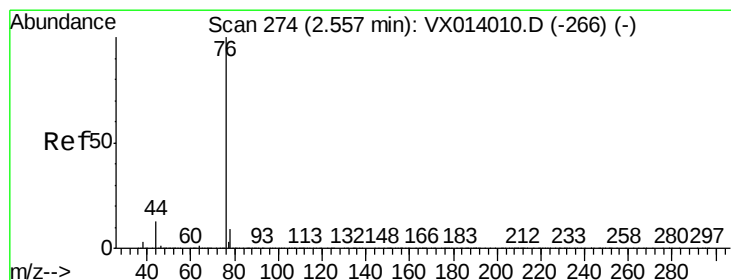
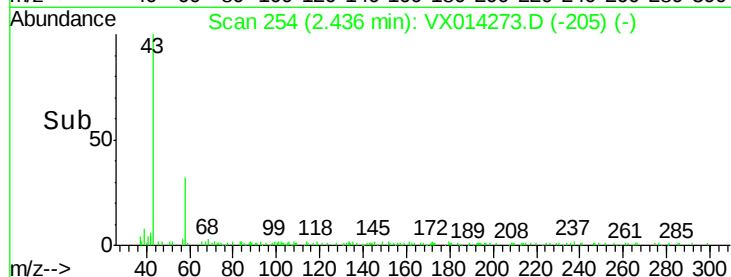
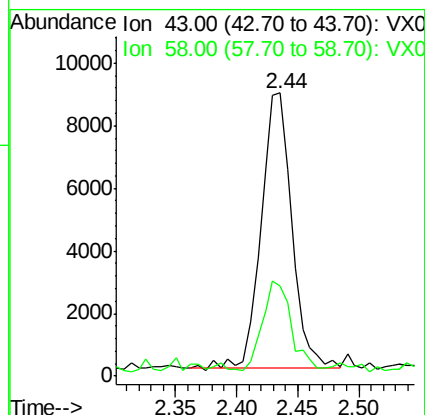
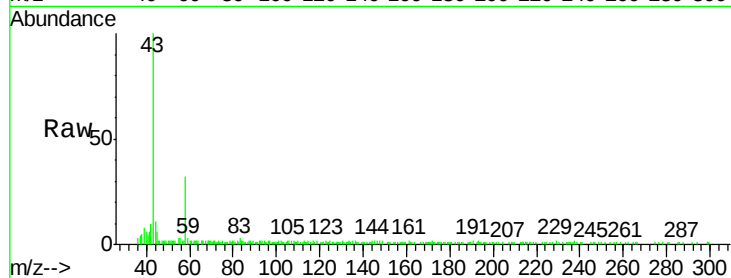
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Tgt Ion: 43 Resp: 15403

Ion Ratio Lower Upper

43 100

58 28.2 24.9 37.3



#17

Carbon Disulfide

Concen: 0.809 ug/l

RT: 2.58 min Scan# 277

Delta R.T. 0.02 min

Lab File: VX014273.D

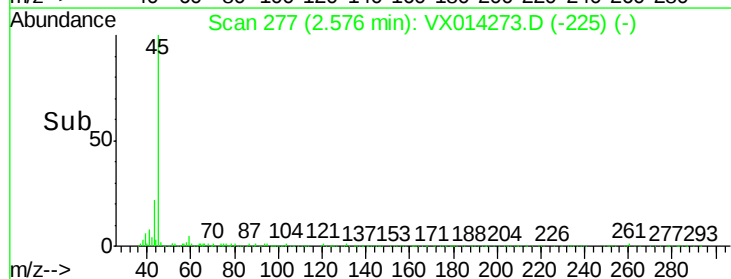
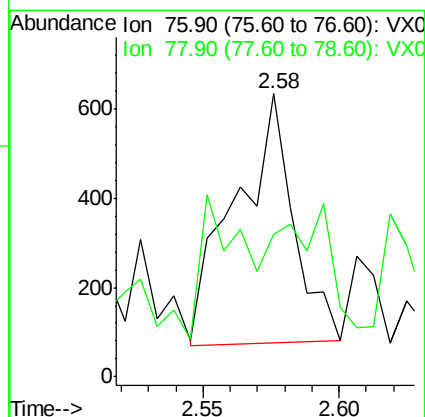
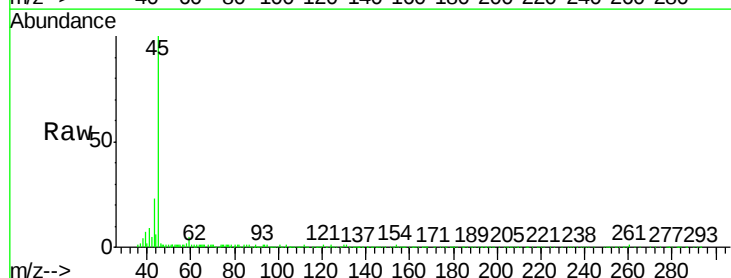
Acq: 26 Dec 2019 16:44

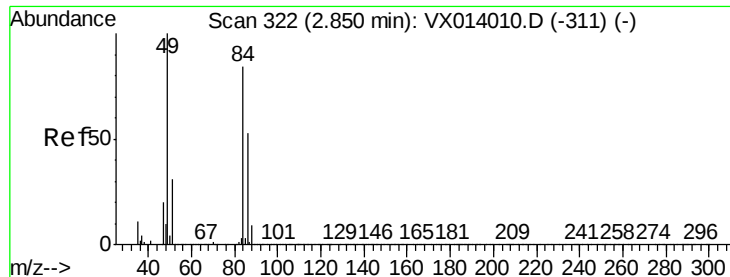
Tgt Ion: 76 Resp: 831

Ion Ratio Lower Upper

76 100

78 42.7 7.2 10.8#

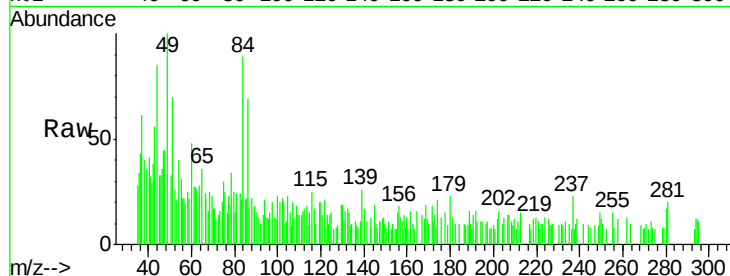




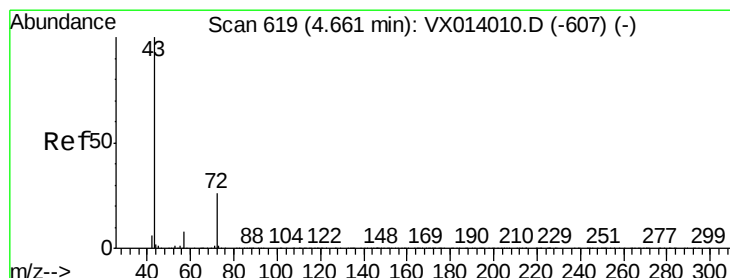
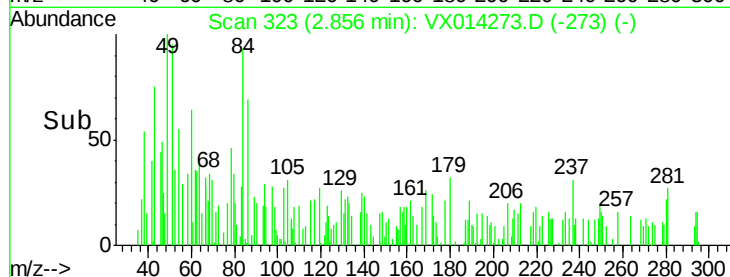
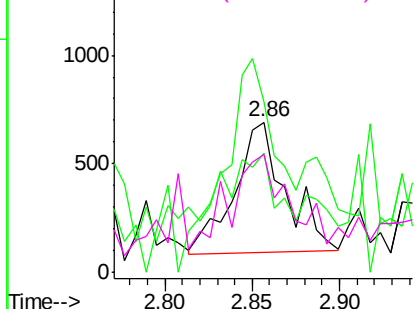
#20
Methylene Chloride
Concen: 0.202 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
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Tgt Ion: 84 Resp: 1226
Ion Ratio Lower Upper
84 100
49 101.0 95.8 143.6
51 57.4 29.8 44.8#
86 73.9 50.8 76.2

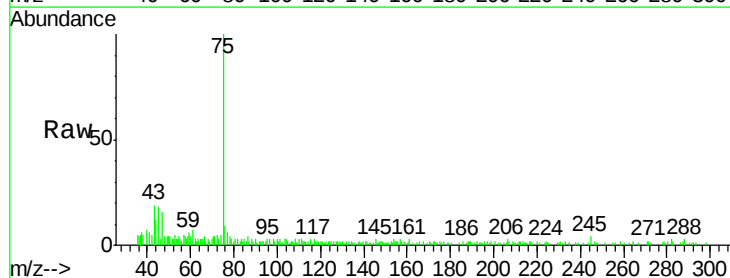


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

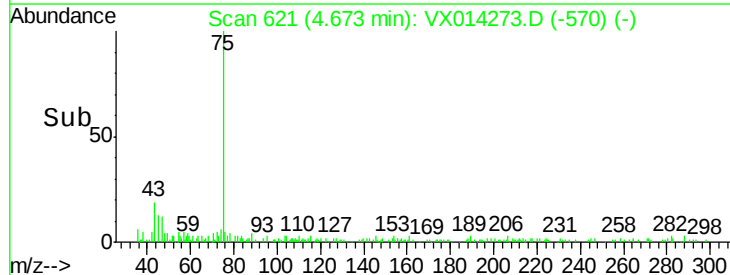
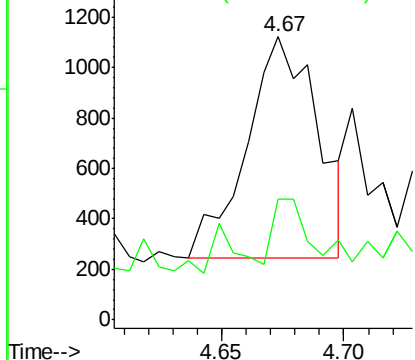


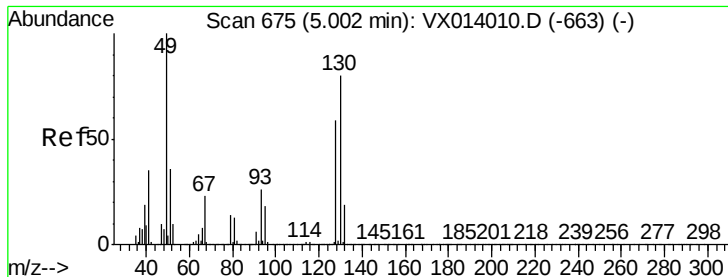
#25
2-Butanone
Concen: 0.377 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

Tgt Ion: 43 Resp: 1795
Ion Ratio Lower Upper
43 100
72 28.2 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.538 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

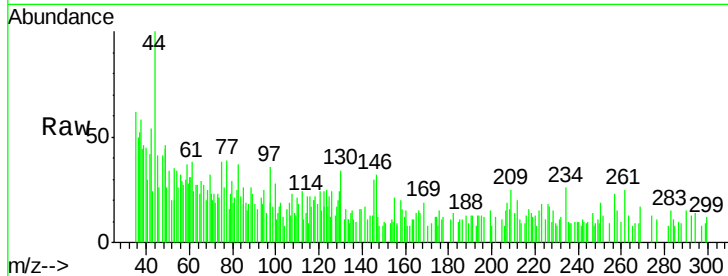
Tgt Ion: 49 Resp: 326

Ion Ratio Lower Upper

49 100

129 104.6 0.0 5.0#

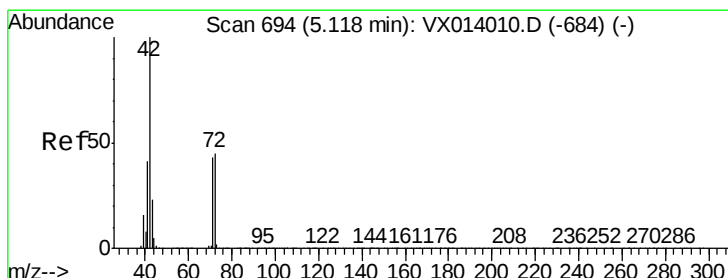
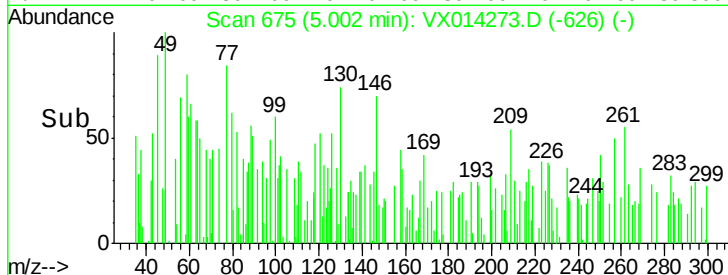
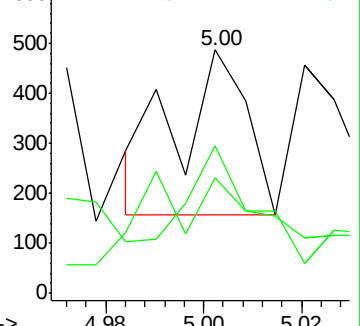
130 40.2 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.02 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

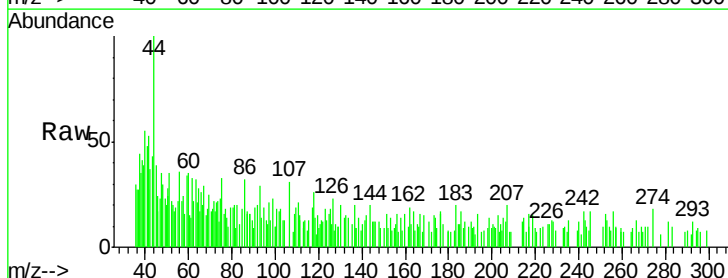
Tgt Ion: 42 Resp: 656

Ion Ratio Lower Upper

42 100

72 98.5 35.8 53.8#

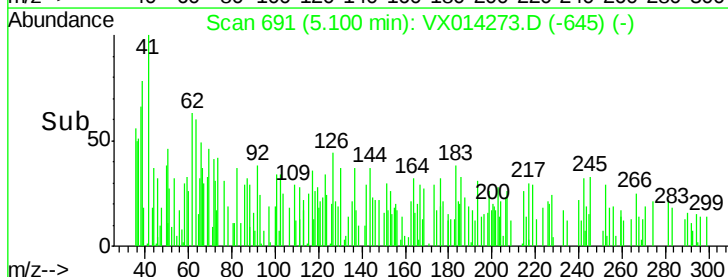
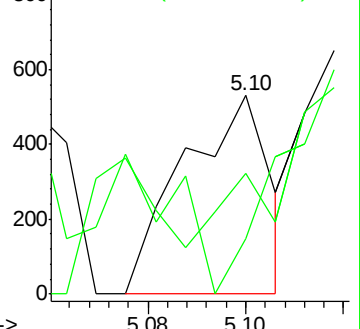
71 150.5 33.6 50.4#

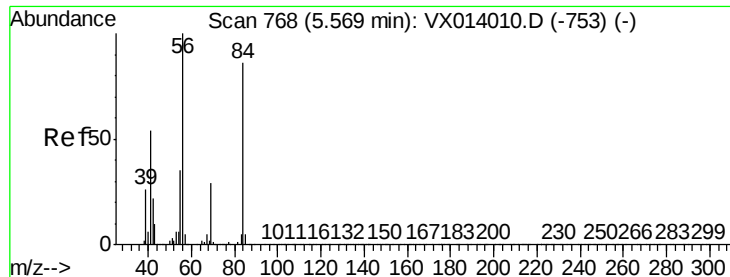


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

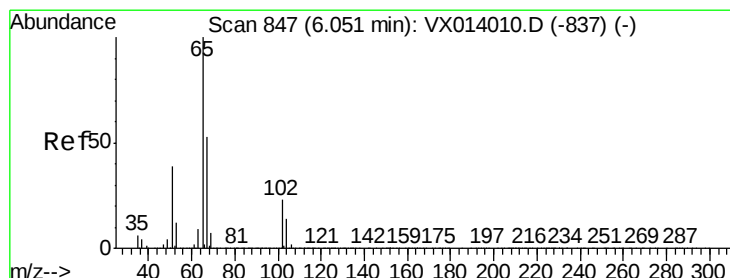
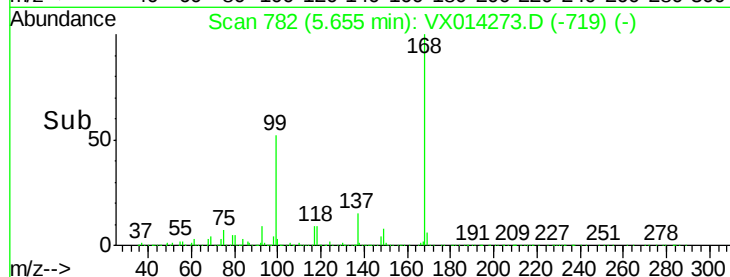
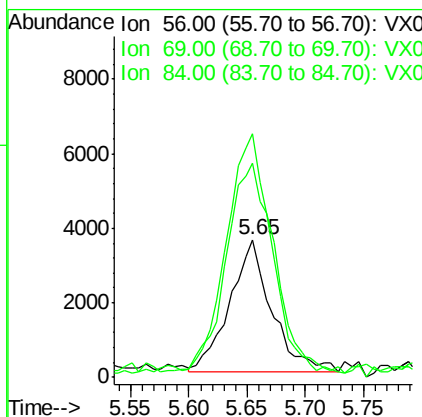
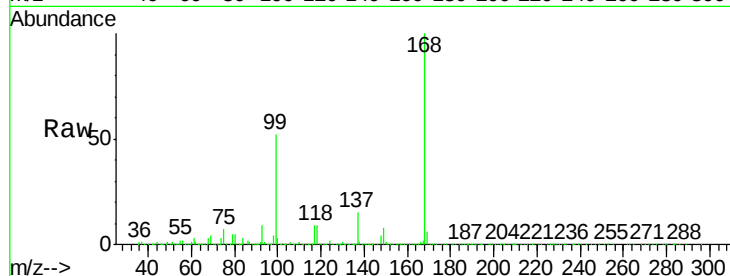




#31
Cyclohexane
Concen: 1.007 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

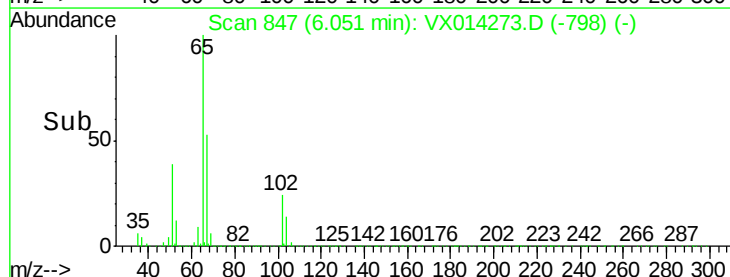
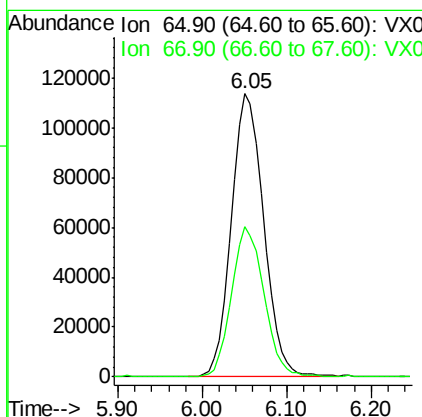
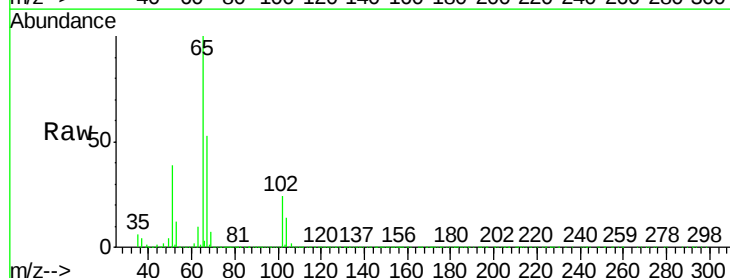
Instrument :
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996-MW-15-(17)

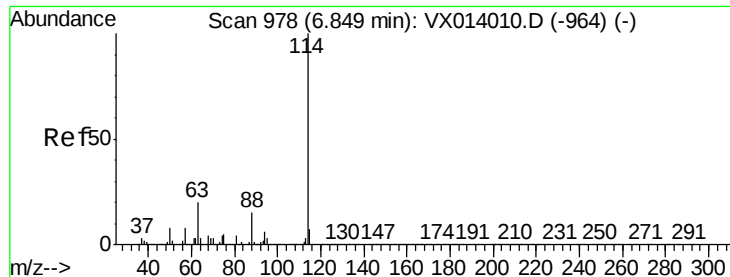
Tgt Ion: 56 Resp: 8943
Ion Ratio Lower Upper
56 100
69 179.6 23.2 34.8#
84 155.9 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 49.854 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

Tgt Ion: 65 Resp: 296363
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

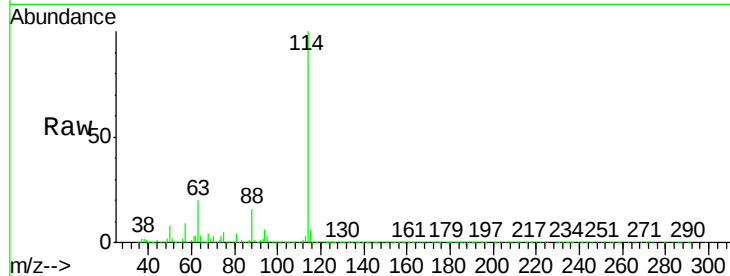
Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

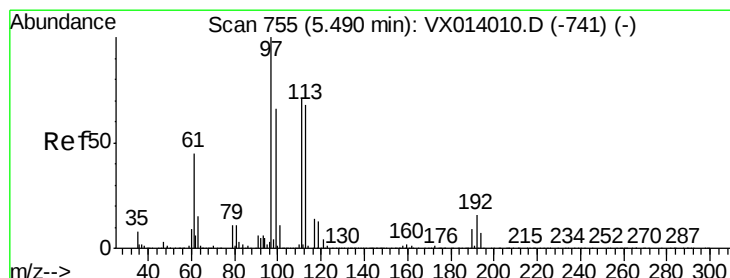
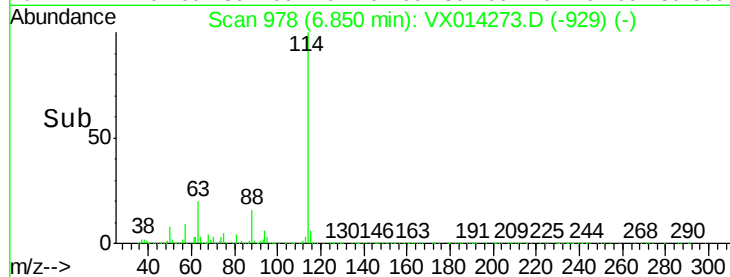
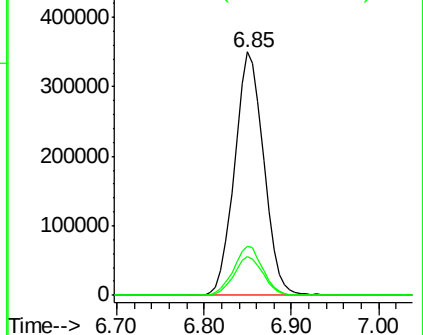
Tgt Ion:	114	Resp:	812062
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.8
88	16.0	0.0	30.4



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: 48.904 ug/l

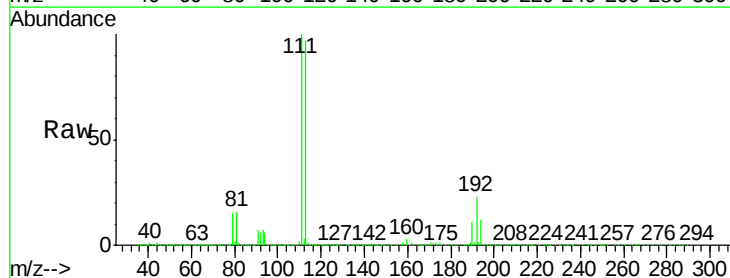
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

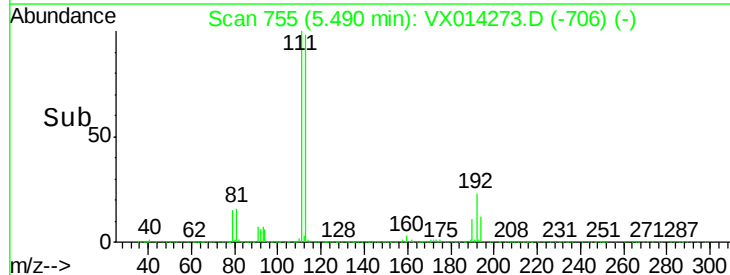
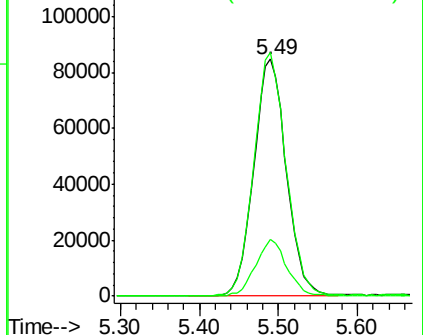
Tgt Ion:	113	Resp:	241412
Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	23.3	19.3	28.9

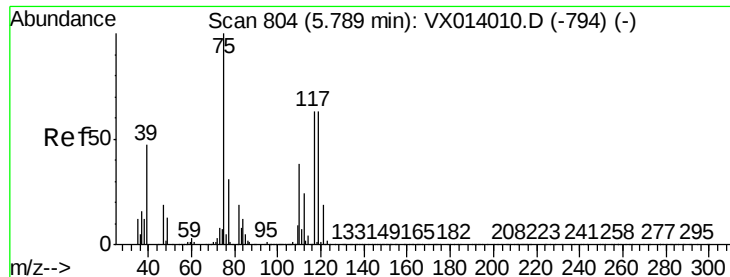


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

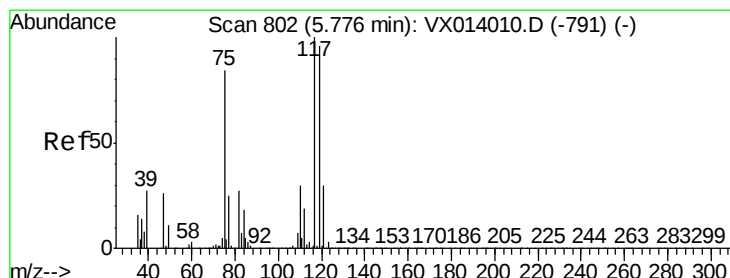
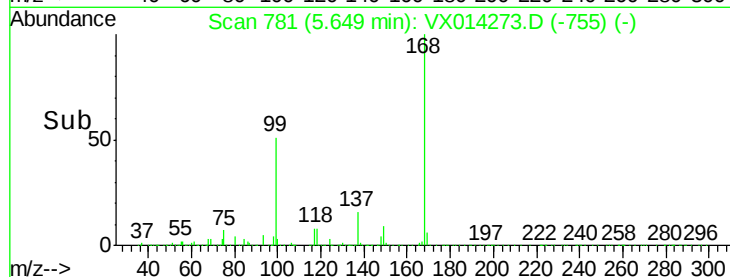
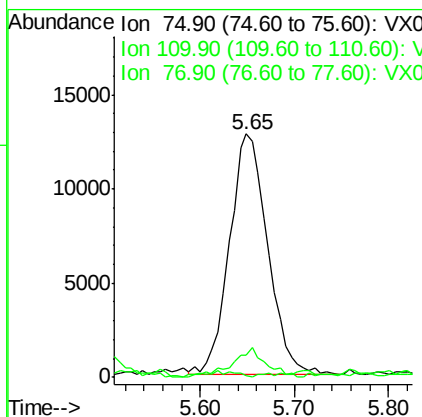
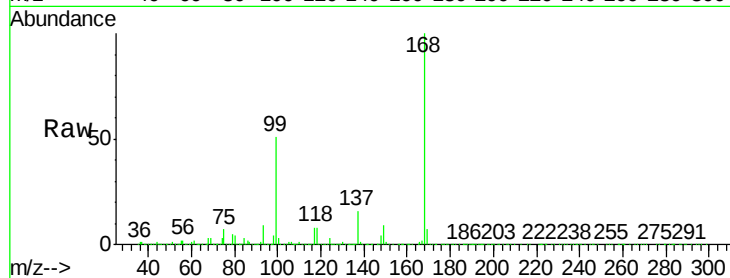




#36
 1,1-Dichloropropene
 Concen: 4.842 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014273.D
 Acq: 26 Dec 2019 16:44

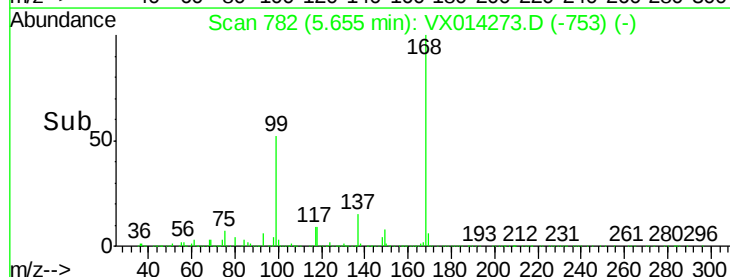
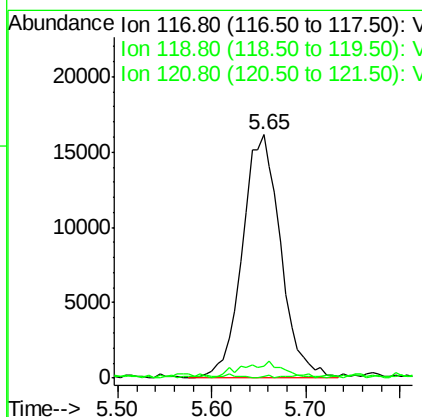
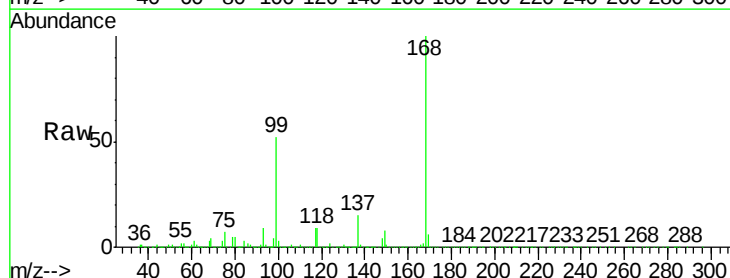
Instrument :
 MSVOA_X
 ClientSampleId :
 996-MW-15-(17)

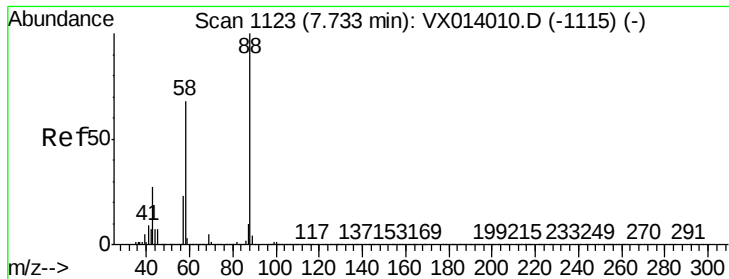
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.779 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014273.D
 Acq: 26 Dec 2019 16:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.2	114.4#
121	0.0	23.6	35.4#

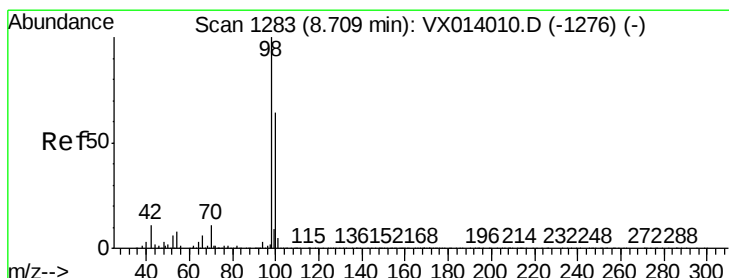
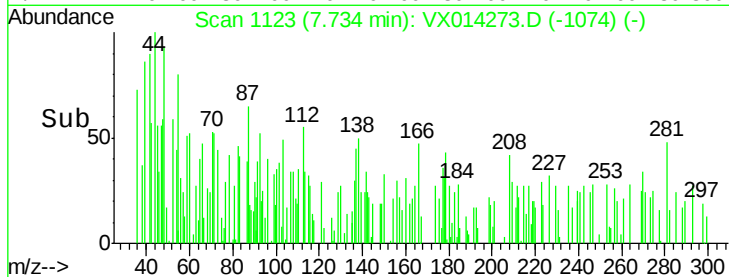
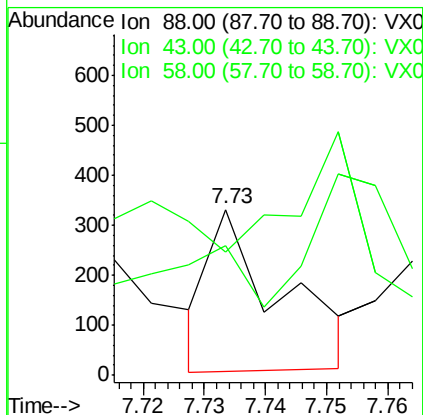
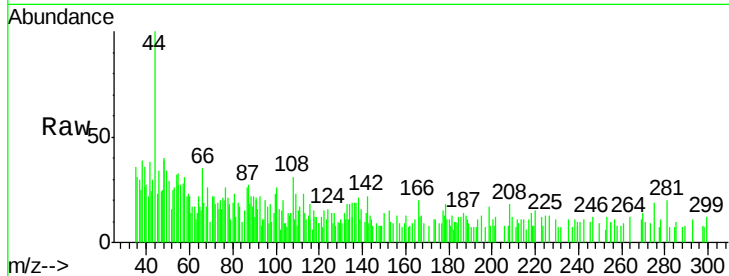




#49
1,4-Dioxane
Concen: 1.953 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

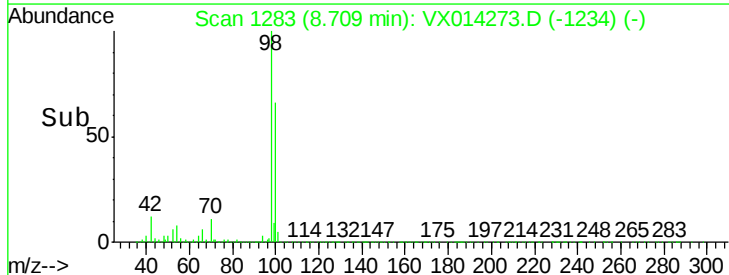
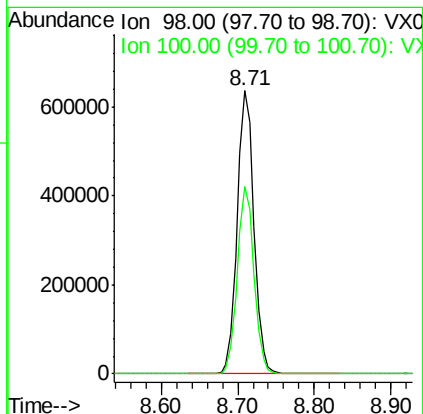
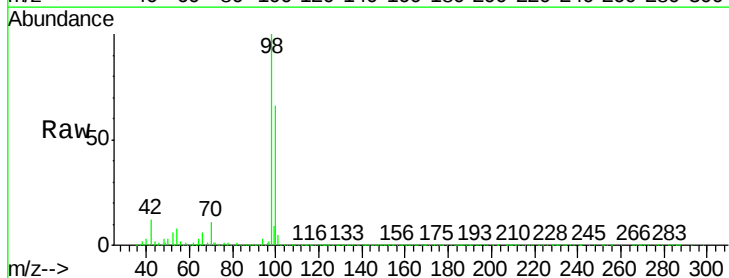
Instrument :
MSVOA_X
ClientSampleId :
996-MW-15-(17)

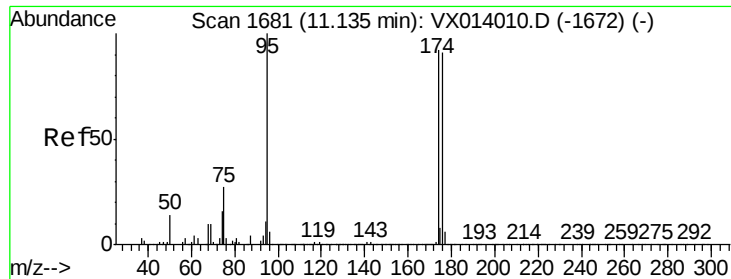
Tgt Ion: 88 Resp: 265
Ion Ratio Lower Upper
88 100
43 96.2 26.5 39.7#
58 261.1 56.8 85.2#



#50
Toluene-d8
Concen: 50.142 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014273.D
Acq: 26 Dec 2019 16:44

Tgt Ion: 98 Resp: 963670
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 46.112 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

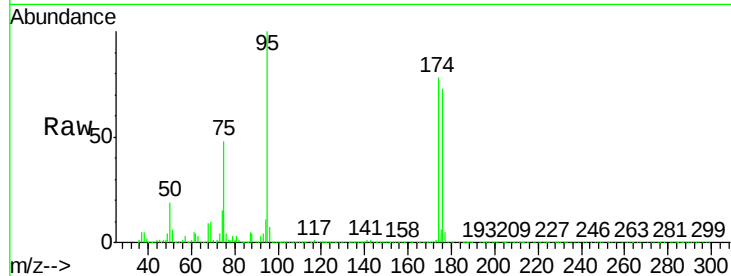
Tgt Ion: 95 Resp: 323949

Ion Ratio Lower Upper

95 100

174 86.9 0.0 175.8

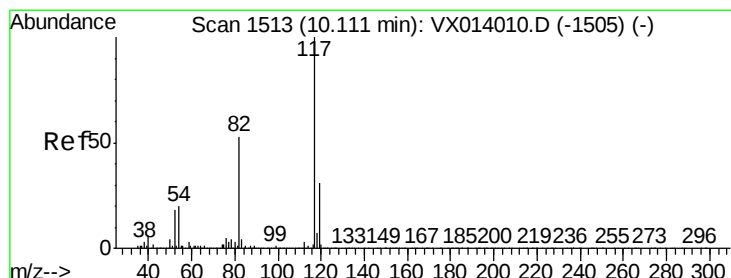
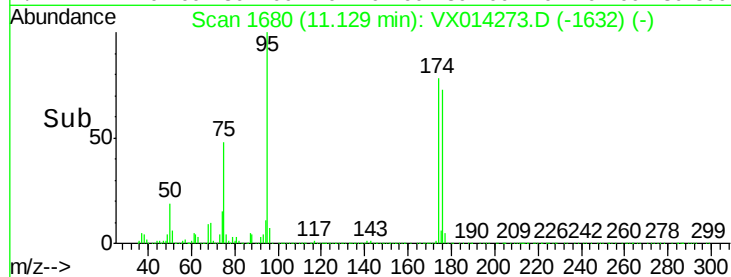
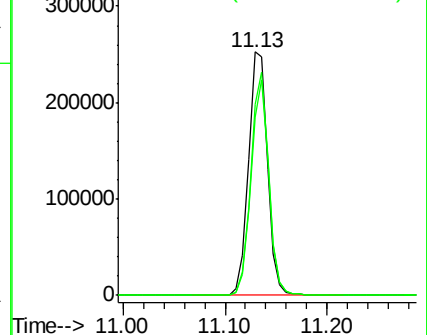
176 83.3 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

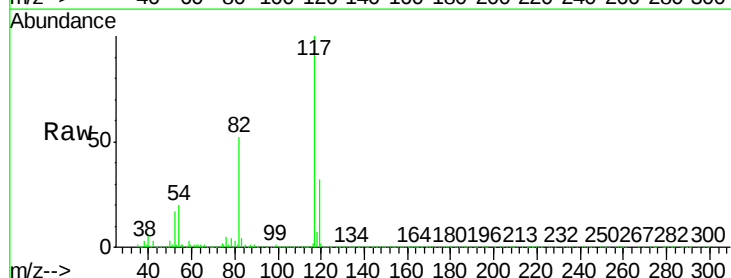
Tgt Ion: 117 Resp: 727039

Ion Ratio Lower Upper

117 100

82 52.3 42.2 63.4

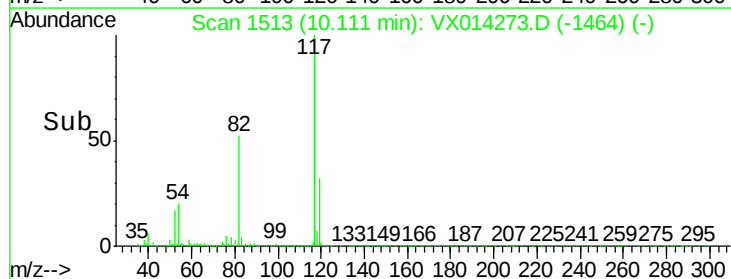
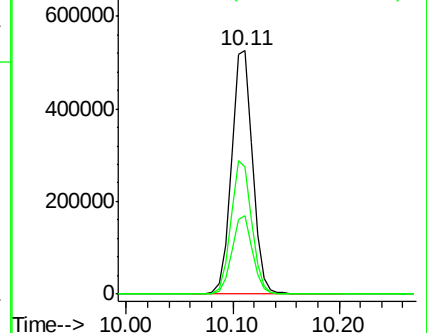
119 32.3 25.1 37.7

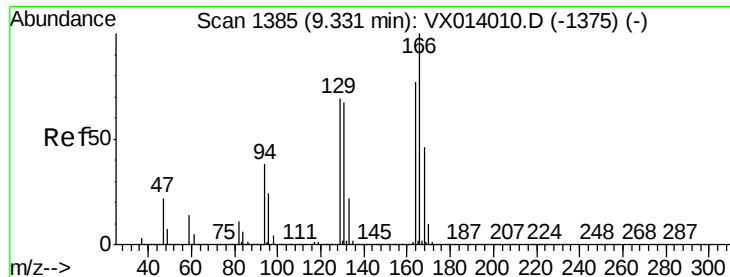


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.547 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

Tgt Ion:164 Resp: 3519

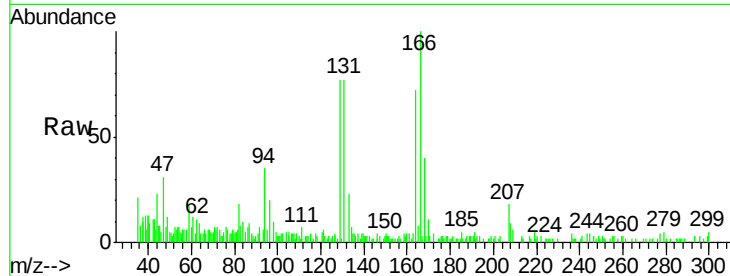
Ion Ratio Lower Upper

164 100

166 142.5 104.0 156.0

129 104.3 72.2 108.4

131 103.2 69.6 104.4

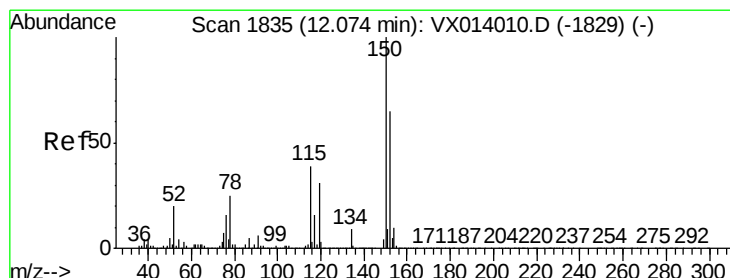
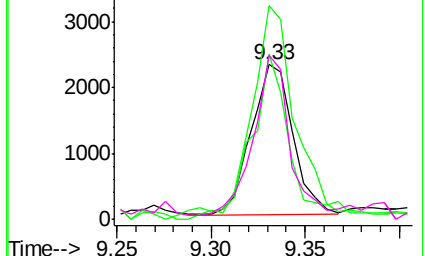
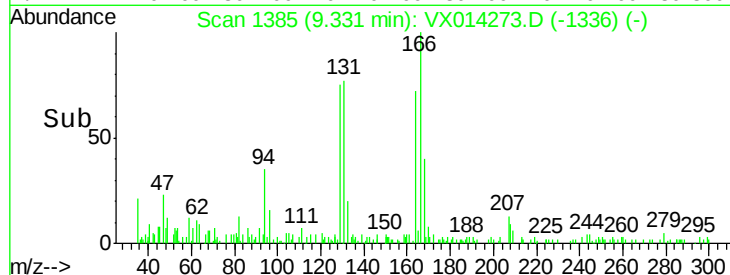


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

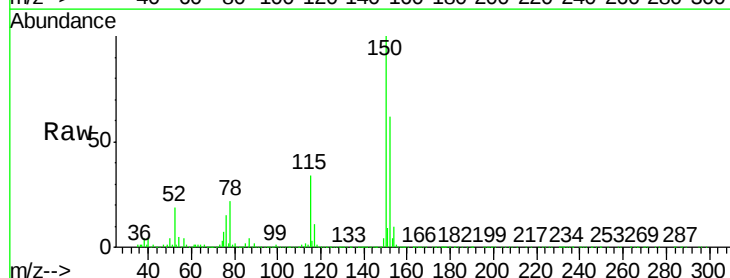
Tgt Ion:152 Resp: 312996

Ion Ratio Lower Upper

152 100

115 55.0 38.3 114.9

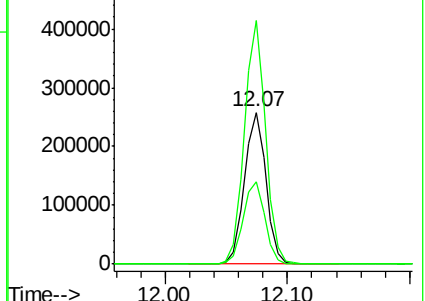
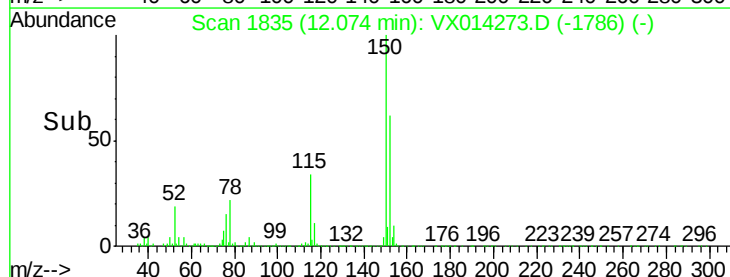
150 157.1 0.0 345.4

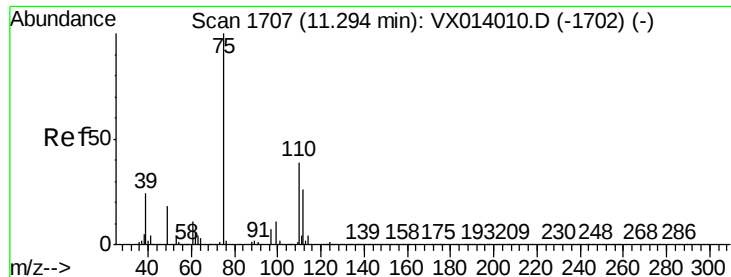


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.728 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

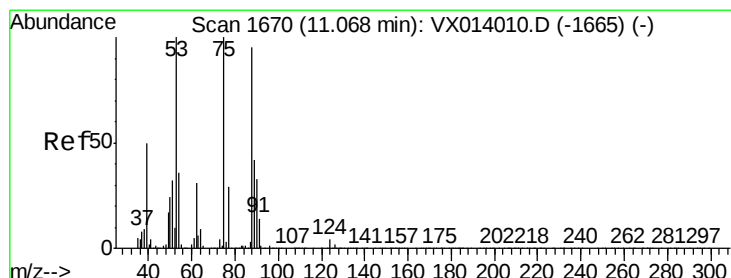
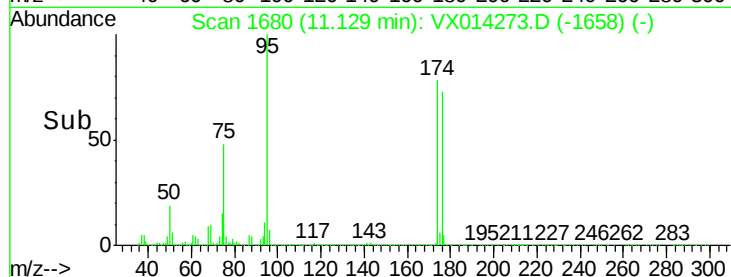
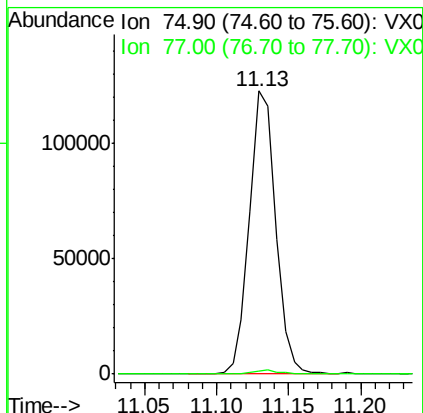
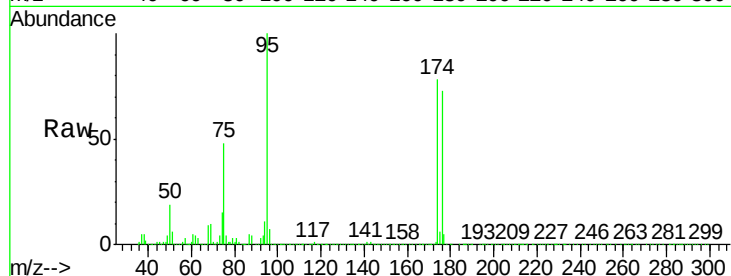
996-MW-15-(17)

Tgt Ion: 75 Resp: 154437

Ion Ratio Lower Upper

75 100

77 1.6 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.150 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014273.D

Acq: 26 Dec 2019 16:44

Tgt Ion: 75 Resp: 154437

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#

