

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122419\
 Data File : VX014253.D
 Acq On : 24 Dec 2019 18:21
 Operator : JC/SP
 Sample : K6405-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 997-MW-16-(22.5)

Quant Time: Dec 25 05:44:20 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	542420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	827933	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	740930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	325329	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	297409	48.38	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.76%		
35) Dibromofluoromethane	5.49	113	243461	48.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.74%		
50) Toluene-d8	8.71	98	976350	49.83	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.66%		
62) 4-Bromofluorobenzene	11.13	95	326607	45.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.20%		

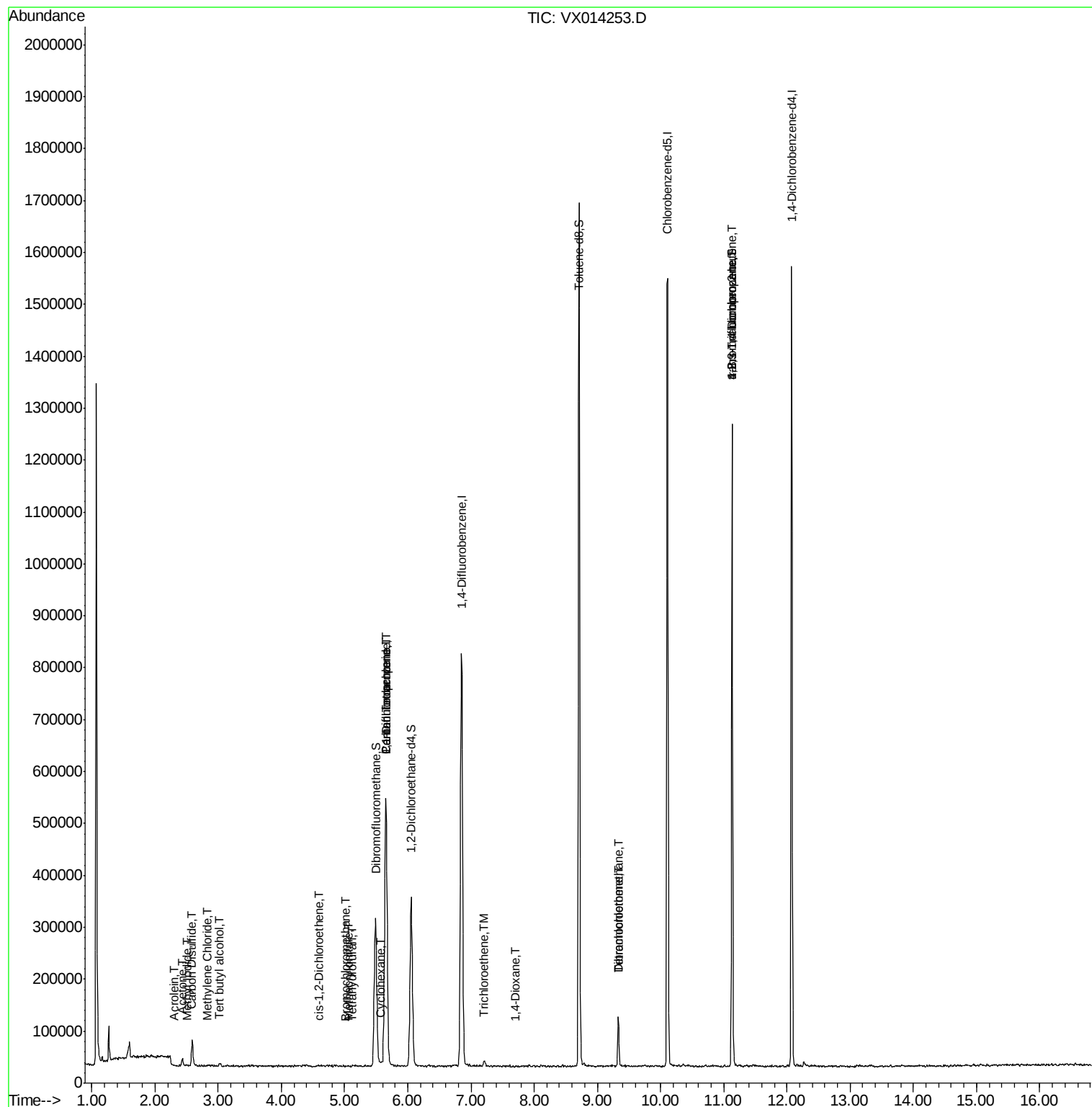
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.50	142	308	2.664	ug/l #	54
11) Tert butyl alcohol	3.02	59	6612	4.978	ug/l #	93
13) Acrolein	2.30	56	208	0.274	ug/l #	31
16) Acetone	2.44	43	15465	3.875	ug/l	92
17) Carbon Disulfide	2.57	76	1256	0.836	ug/l #	74
20) Methylene Chloride	2.84	84	2087	0.332	ug/l #	68
27) cis-1,2-Dichloroethene	4.59	96	2038	0.313	ug/l	70
28) Bromochloromethane	5.01	49	218	0.508	ug/l #	1
29) Tetrahydrofuran	5.11	42	1065	0.387	ug/l #	76
31) Cyclohexane	5.57	56	6347	0.691	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	37379	4.920	ug/l #	41
38) Carbon Tetrachloride	5.65	117	46580	6.731	ug/l #	18
41) Methacrylonitrile	5.06	41	1070	0.230	ug/l #	49
44) Trichloroethene	7.20	130	5036	0.780	ug/l	71
49) 1,4-Dioxane	7.70	88	268	1.937	ug/l #	1
60) Dibromochloromethane	9.33	129	17805	3.025	ug/l #	12
64) Tetrachloroethene	9.33	164	19772	3.016	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	159922	22.643	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	159922	63.910	ug/l #	12

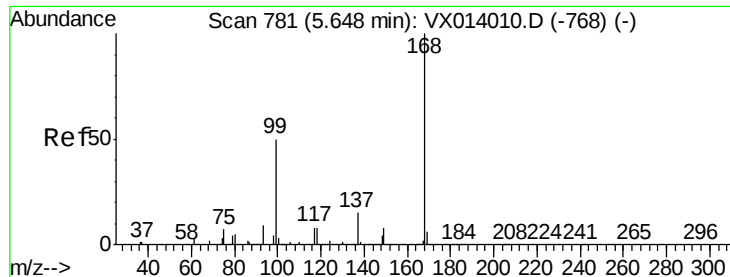
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

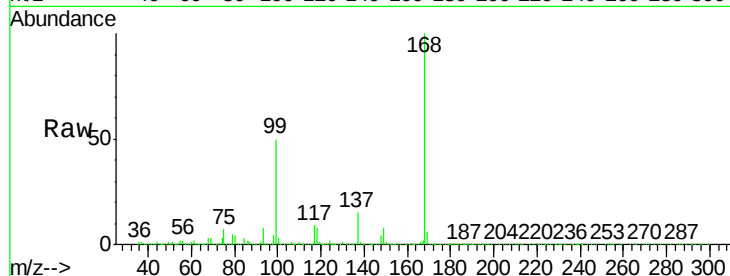
997-MW-16-(22.5)

Tgt Ion:168 Resp: 542420

Ion Ratio Lower Upper

168 100

99 49.5 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

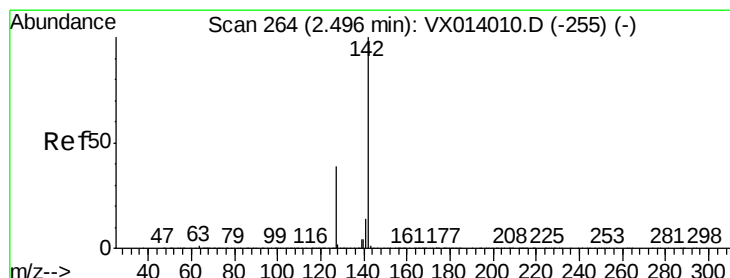
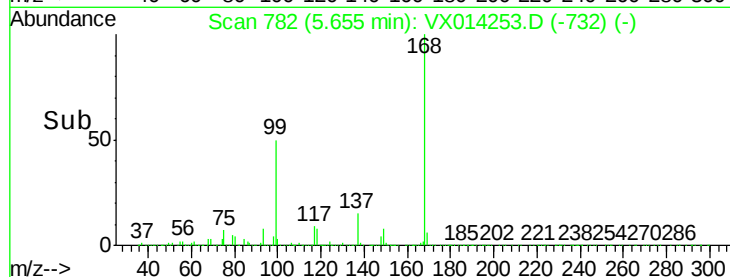
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 2.664 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

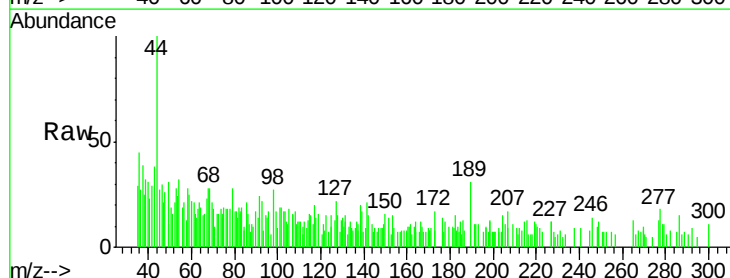
Tgt Ion:142 Resp: 308

Ion Ratio Lower Upper

142 100

127 70.5 31.6 47.4#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.50

400

300

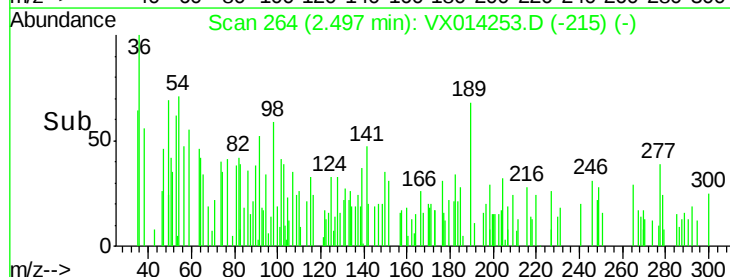
200

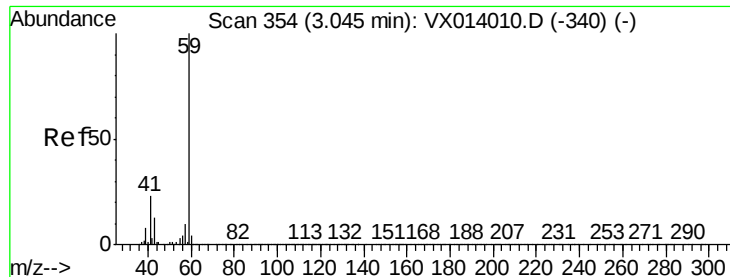
100

0

Time-->

2.48 2.50 2.52



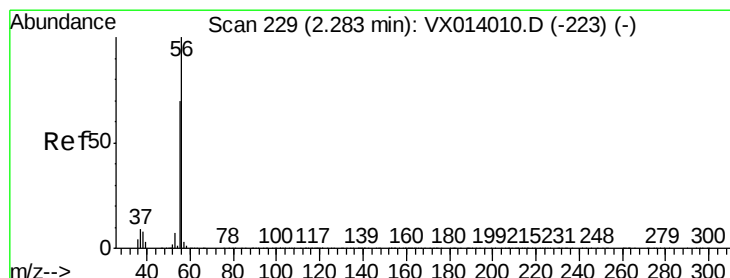
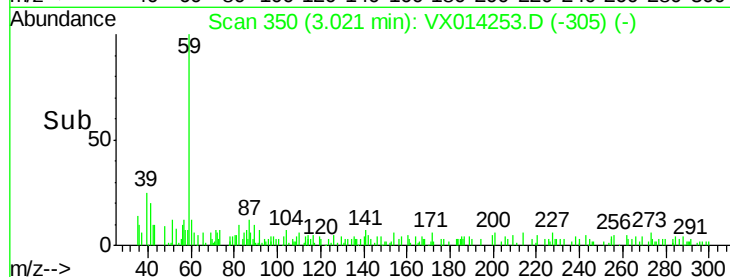
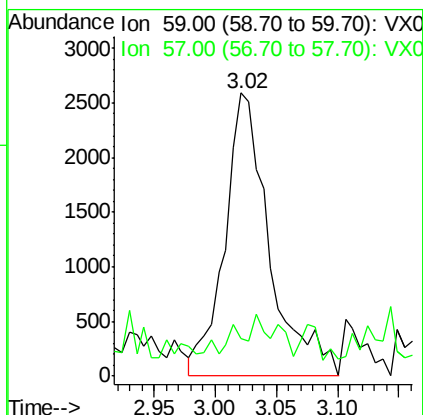
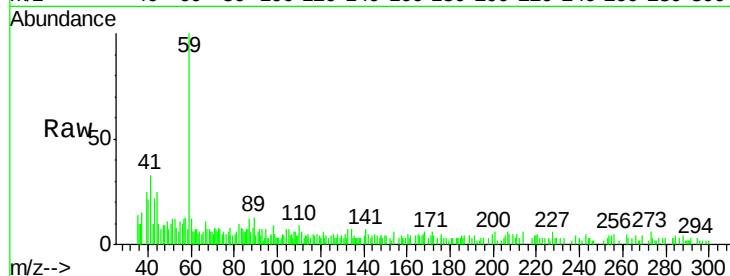


#11

Tert butyl alcohol
Concen: 4.978 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Instrument :
MSVOA_X
ClientSampleId :
997-MW-16-(22.5)

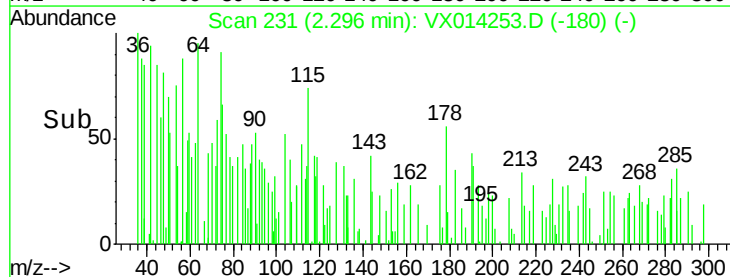
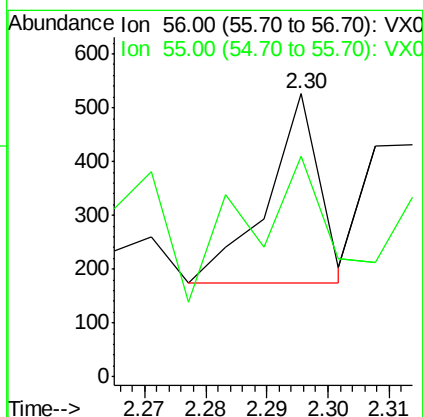
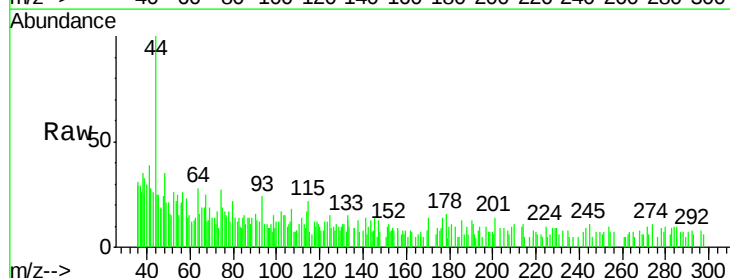
Tgt Ion: 59 Resp: 6612
Ion Ratio Lower Upper
59 100
57 7.8 8.4 12.6#

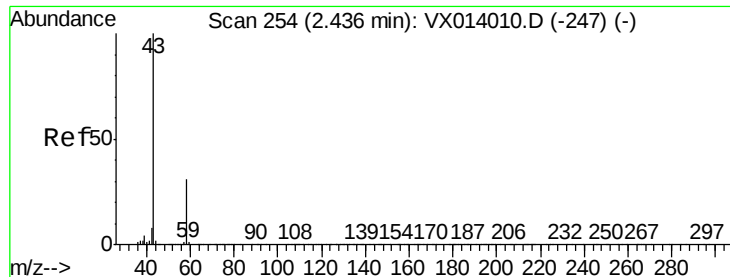


#13

Acrolein
Concen: 0.274 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Tgt Ion: 56 Resp: 208
Ion Ratio Lower Upper
56 100
55 128.4 56.9 85.3#

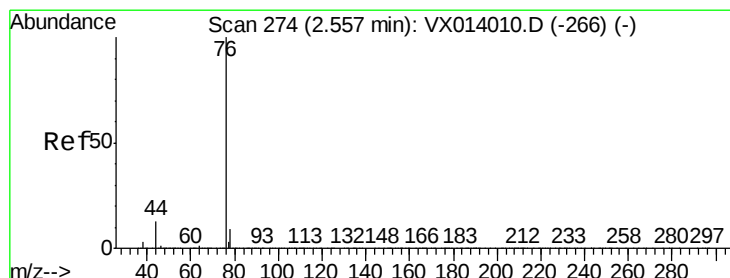
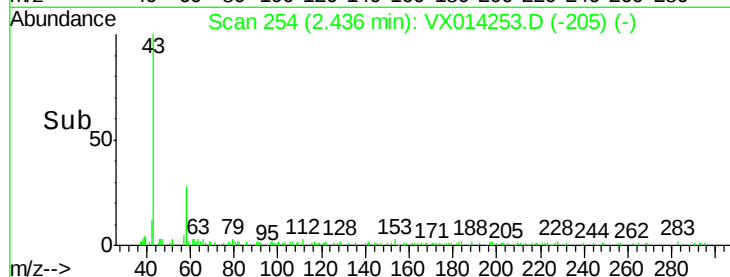
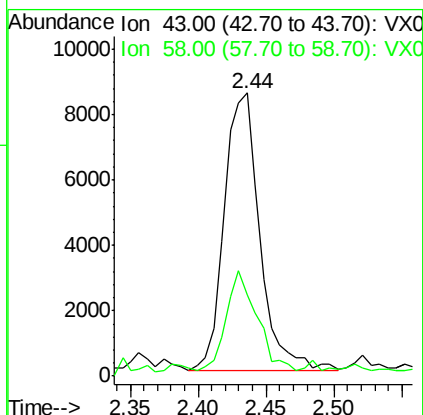
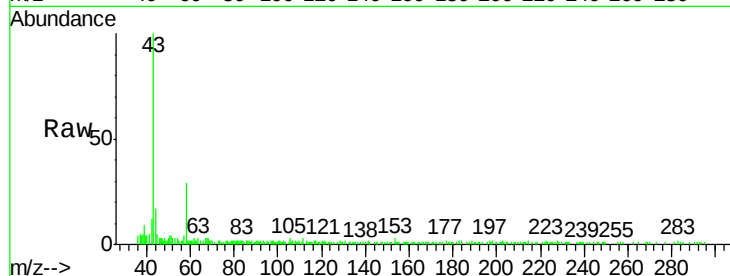




#16
Acetone
Concen: 3.875 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

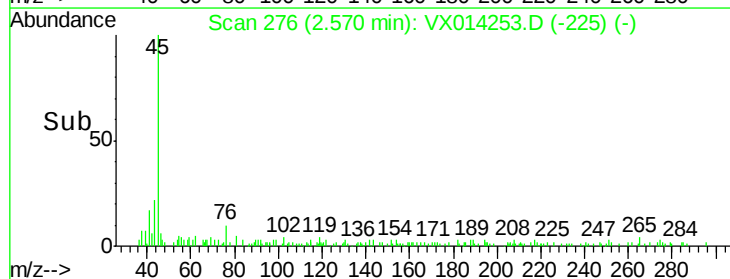
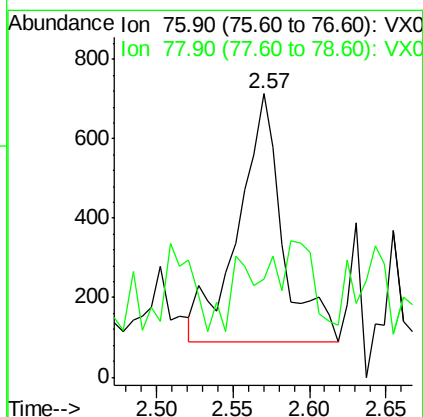
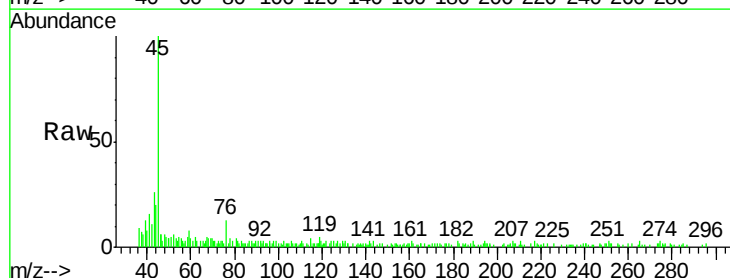
Instrument :
MSVOA_X
ClientSampleId :
997-MW-16-(22.5)

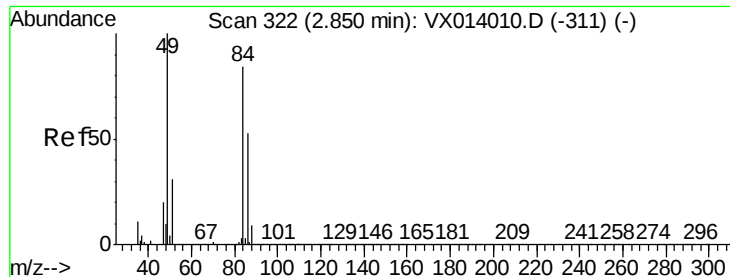
Tgt Ion: 43 Resp: 15465
Ion Ratio Lower Upper
43 100
58 26.9 24.9 37.3



#17
Carbon Disulfide
Concen: 0.836 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Tgt Ion: 76 Resp: 1256
Ion Ratio Lower Upper
76 100
78 18.4 7.2 10.8#

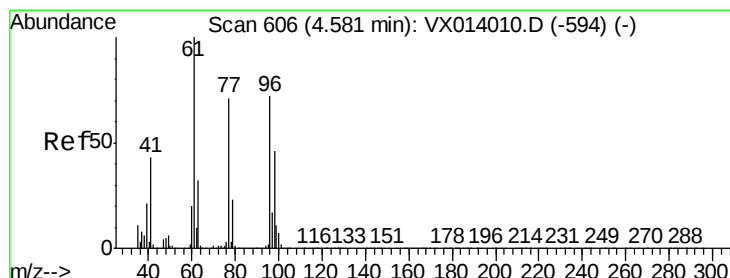
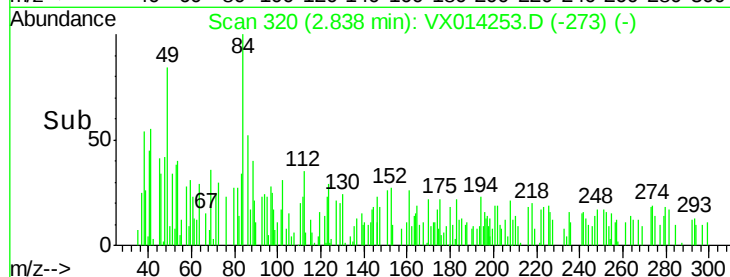
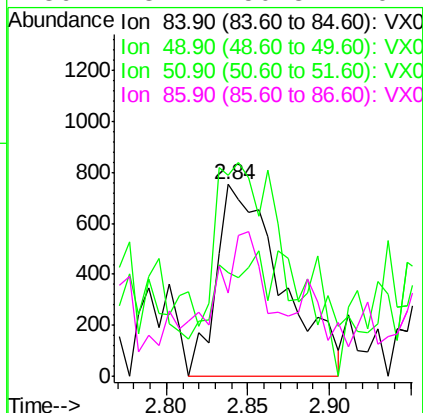
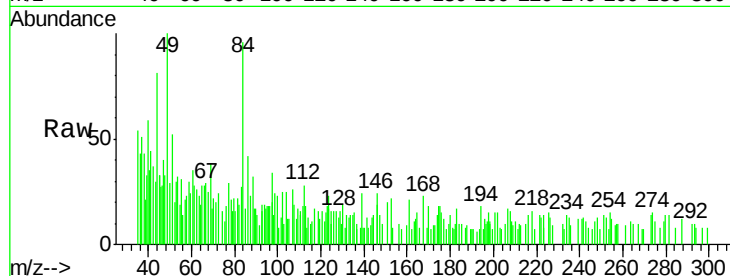




#20
Methylene Chloride
Concen: 0.332 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

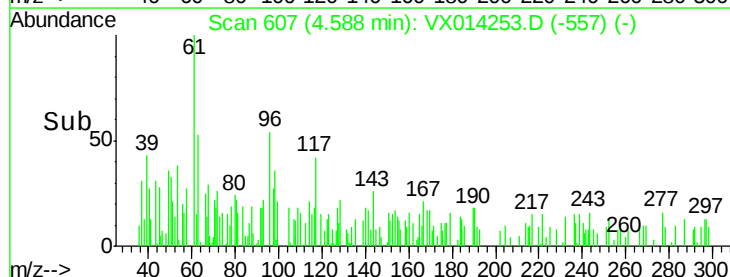
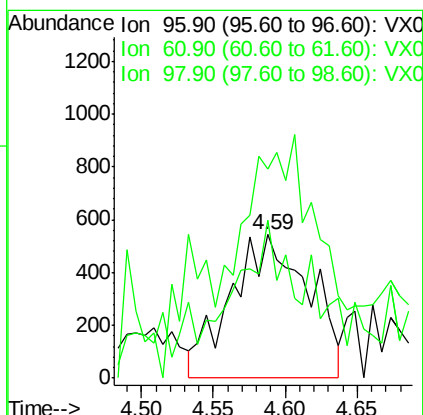
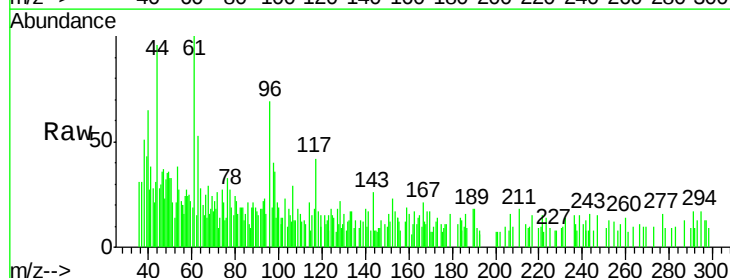
Instrument :
MSVOA_X
ClientSampleId :
997-MW-16-(22.5)

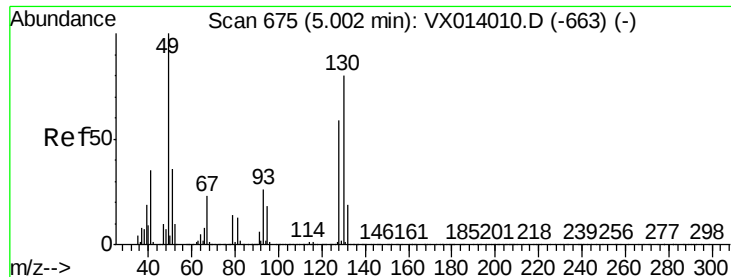
Tgt Ion:	84	Resp:	2087
Ion	Ratio	Lower	Upper
84	100		
49	90.8	95.8	143.6#
51	39.8	29.8	44.8
86	18.2	50.8	76.2#



#27
cis-1,2-Dichloroethene
Concen: 0.313 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Tgt Ion:	96	Resp:	2038
Ion	Ratio	Lower	Upper
96	100		
61	113.6	0.0	288.4
98	32.4	0.0	129.6





#28

Bromochloromethane

Concen: 0.508 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

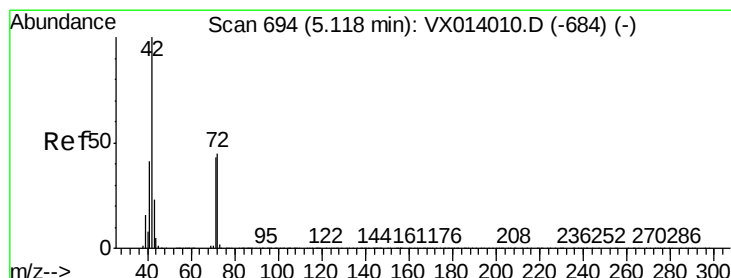
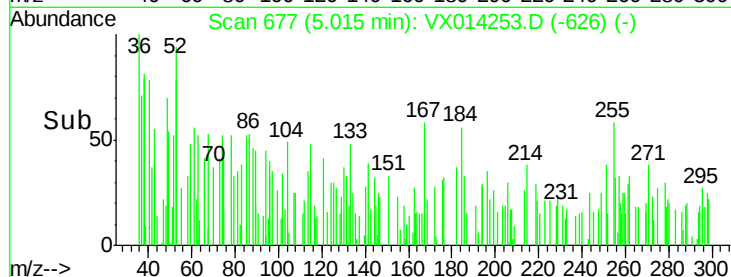
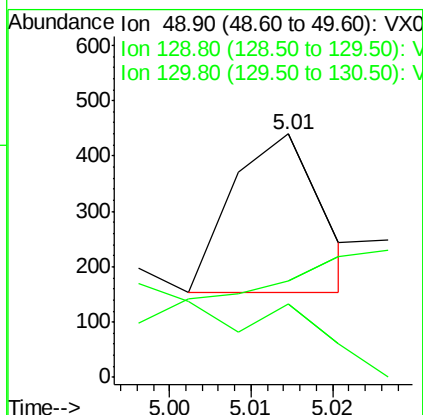
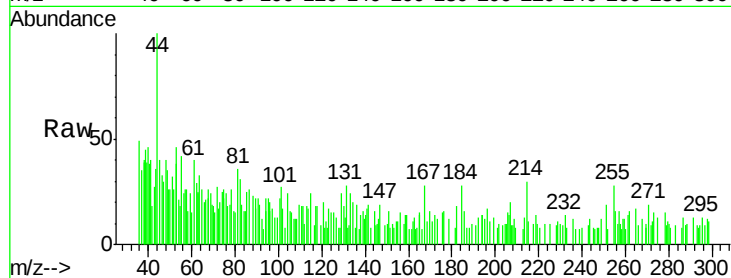
Tgt Ion: 49 Resp: 218

Ion Ratio Lower Upper

49 100

129 122.5 0.0 5.0#

130 0.0 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.387 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.01 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

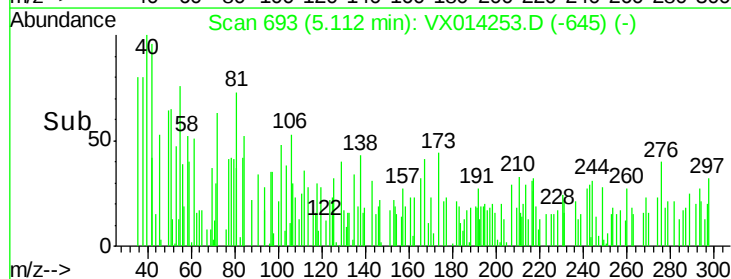
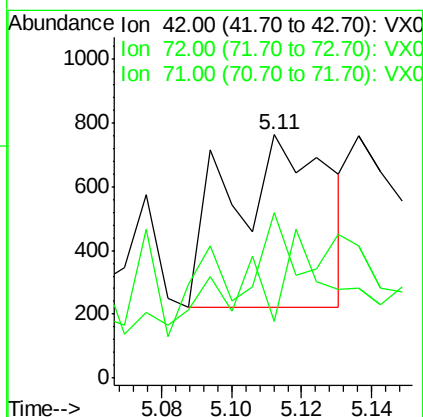
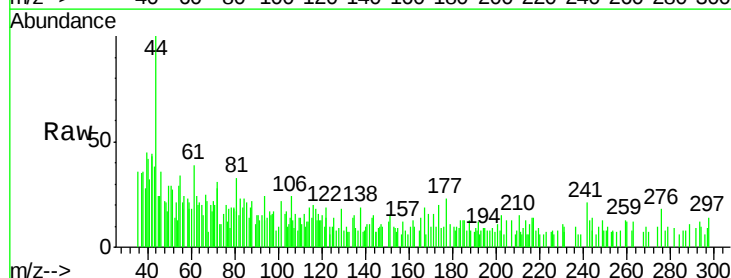
Tgt Ion: 42 Resp: 1065

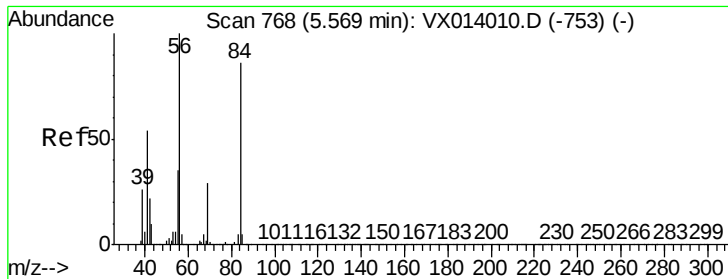
Ion Ratio Lower Upper

42 100

72 31.3 35.8 53.8#

71 24.6 33.6 50.4#





#31

Cyclohexane

Concen: 0.691 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.00 min

Lab File: VX014253.D

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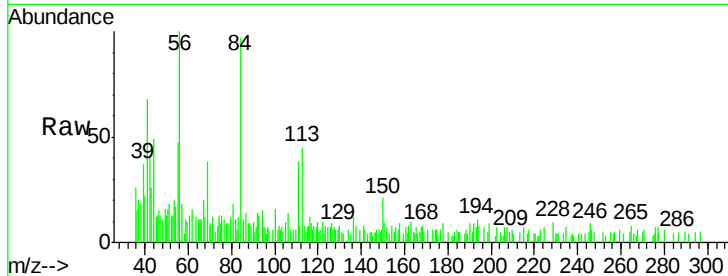
Tgt Ion: 56 Resp: 6347

Ion Ratio Lower Upper

56 100

69 9.7 23.2 34.8#

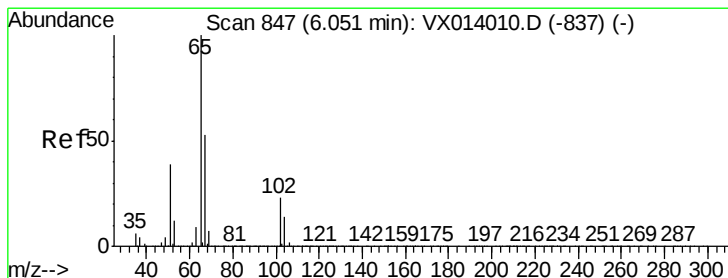
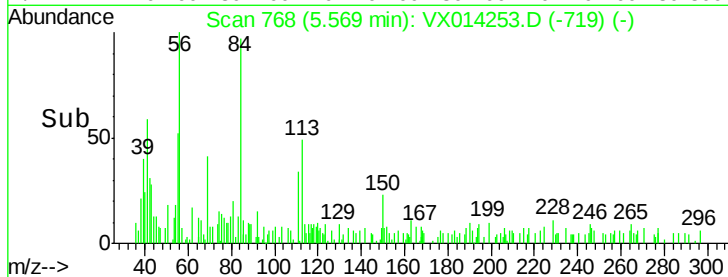
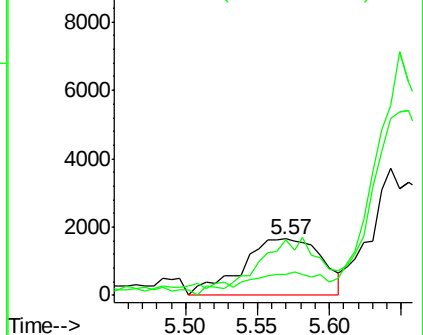
84 104.4 69.2 103.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.378 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014253.D

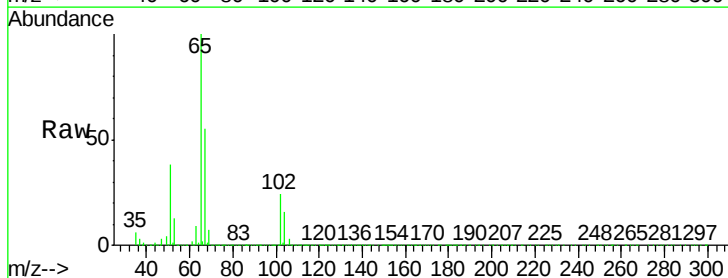
Acq: 24 Dec 2019 18:21

Tgt Ion: 65 Resp: 297409

Ion Ratio Lower Upper

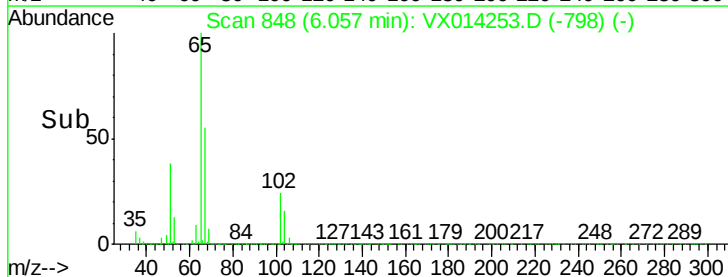
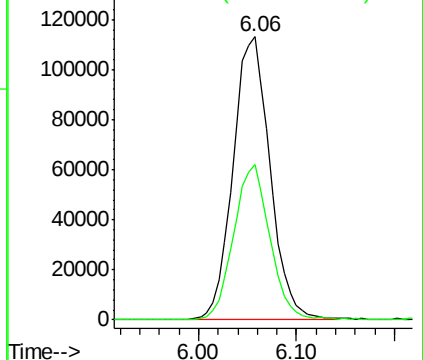
65 100

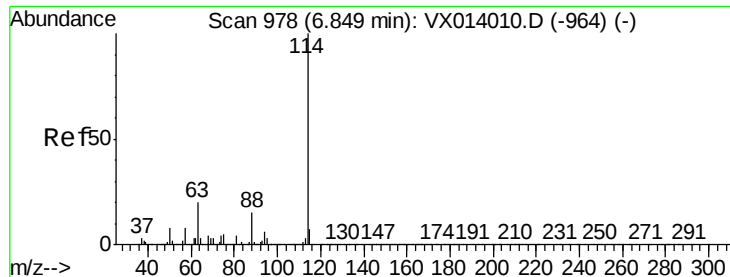
67 52.8 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

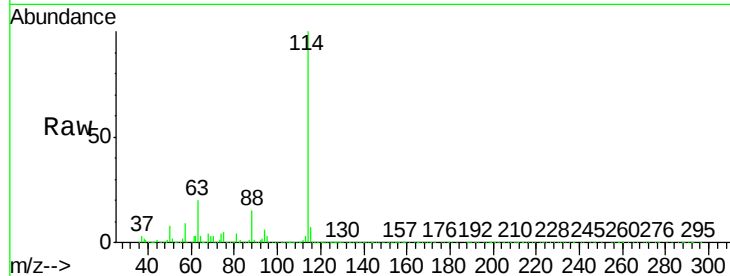
Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

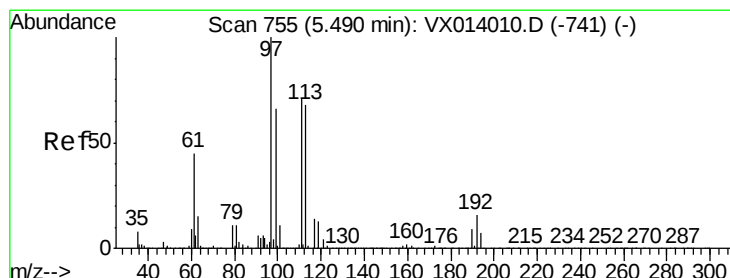
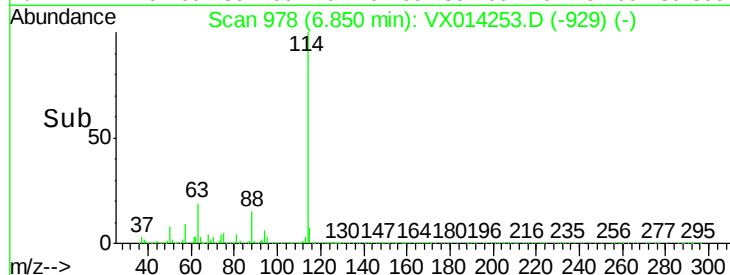
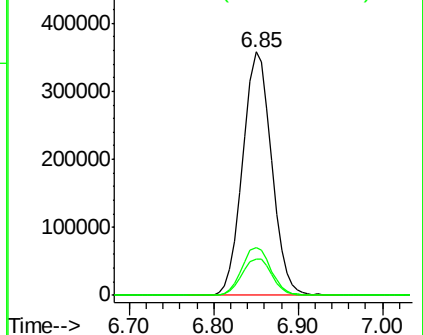
Tgt Ion:	114	Resp:	827933
Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	40.8
88	15.1	0.0	30.4



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: 48.374 ug/l

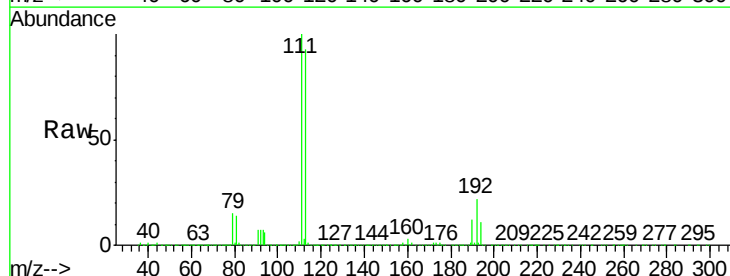
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

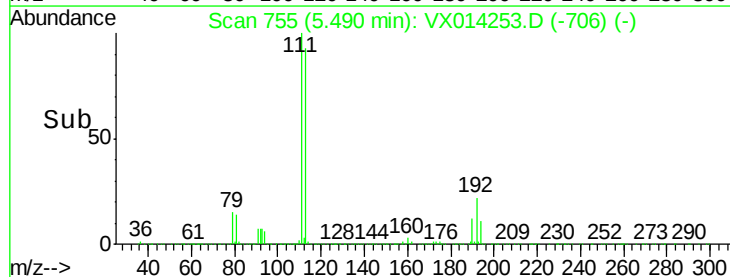
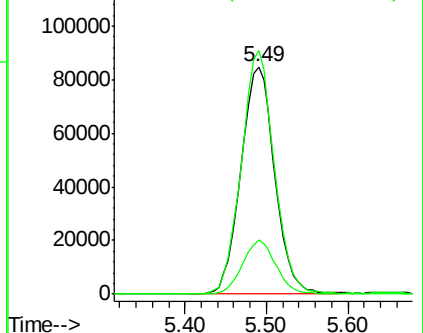
Tgt Ion:	113	Resp:	243461
Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.0	123.0
192	23.6	19.3	28.9

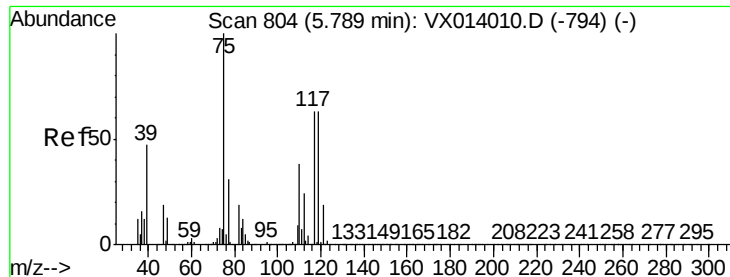


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

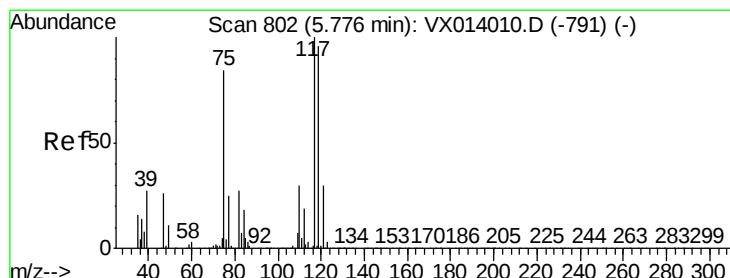
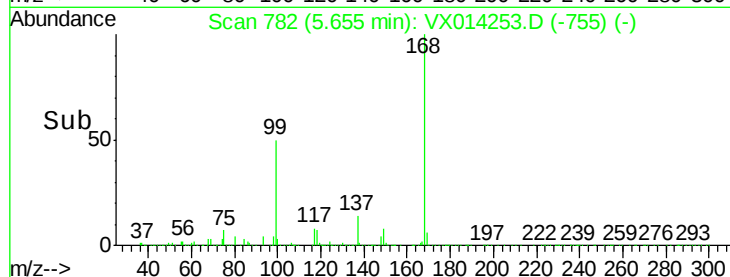
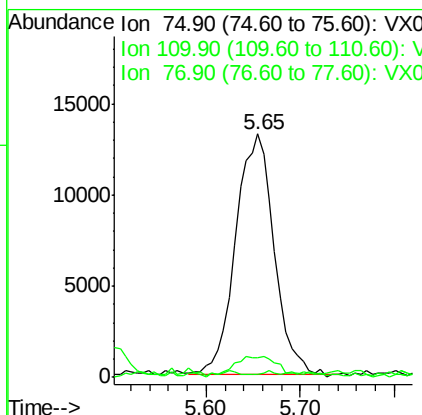
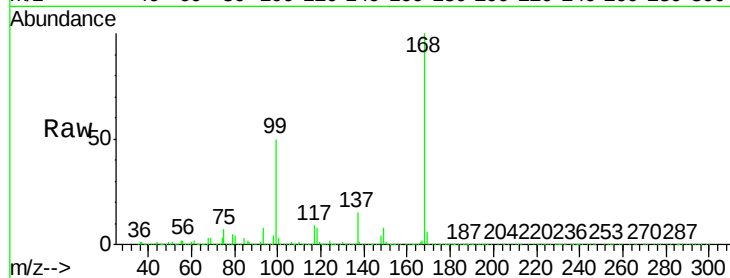




#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014253.D
 Acq: 24 Dec 2019 18:21

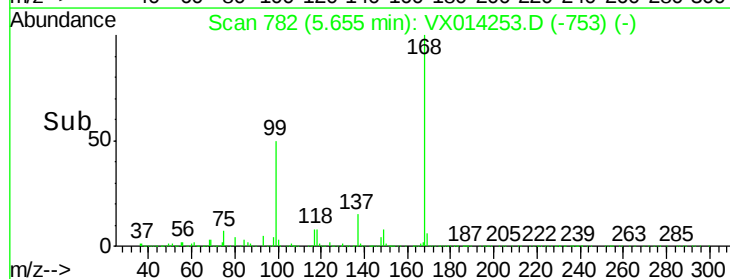
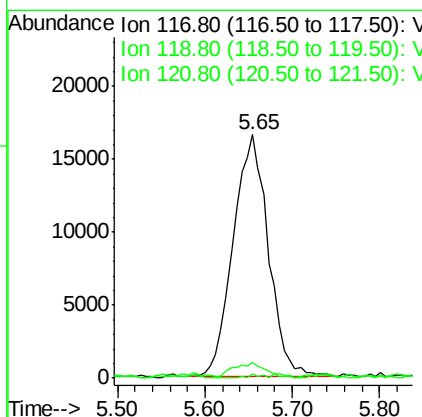
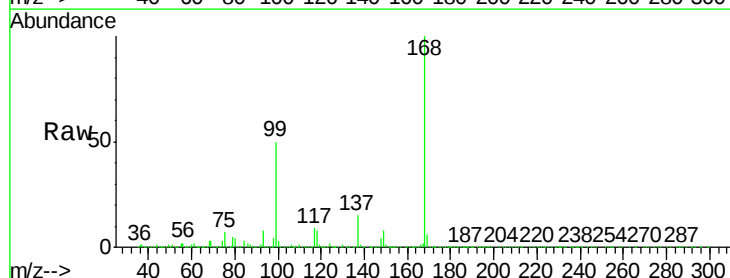
Instrument :
 MSVOA_X
 ClientSampleId :
 997-MW-16-(22.5)

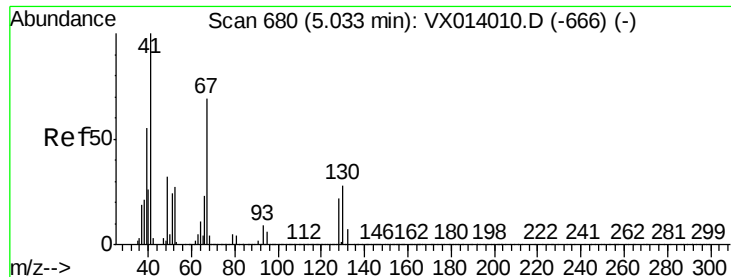
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.9#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.731 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014253.D
 Acq: 24 Dec 2019 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.2	114.4#
121	1.9	23.6	35.4#





#41

Methacrylonitrile

Concen: 0.230 ug/l

RT: 5.06 min Scan# 684

Delta R.T. 0.02 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

Tgt Ion: 41 Resp: 1070

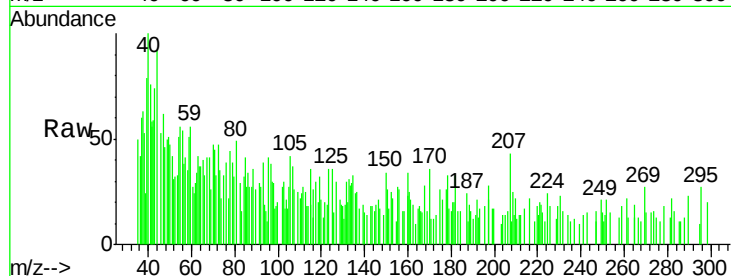
Ion Ratio Lower Upper

41 100

39 58.8 44.5 66.7

67 0.0 57.4 86.0#

52 0.0 23.0 34.4#

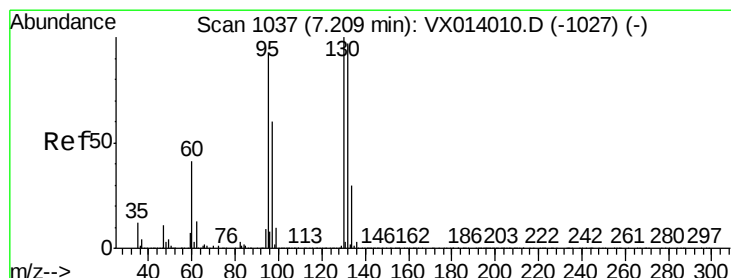
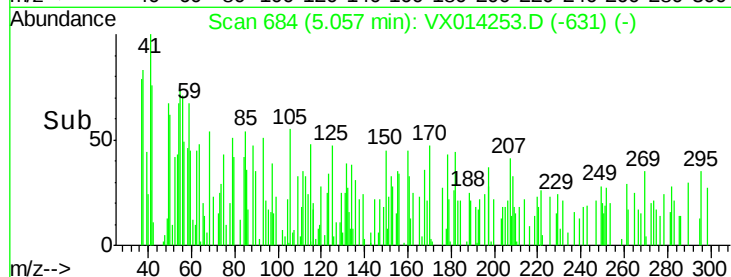
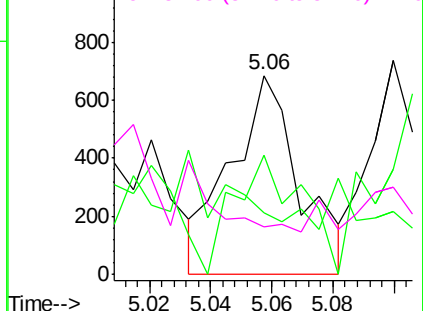


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#44

Trichloroethene

Concen: 0.780 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VX014253.D

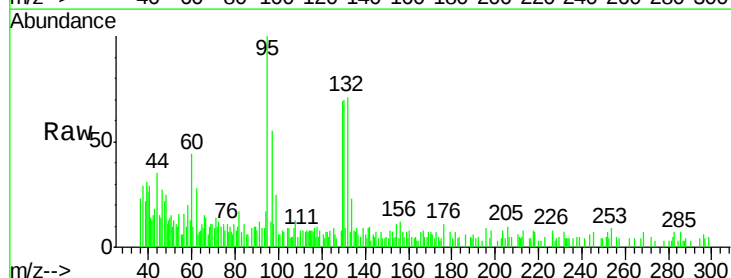
Acq: 24 Dec 2019 18:21

Tgt Ion: 130 Resp: 5036

Ion Ratio Lower Upper

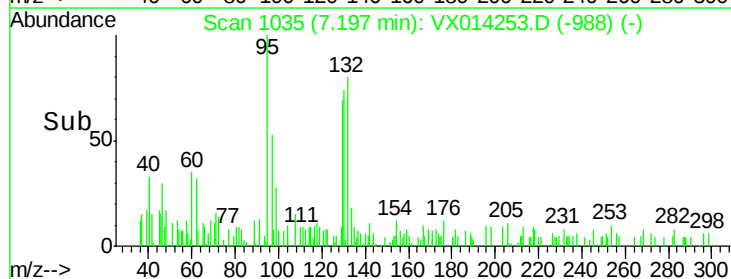
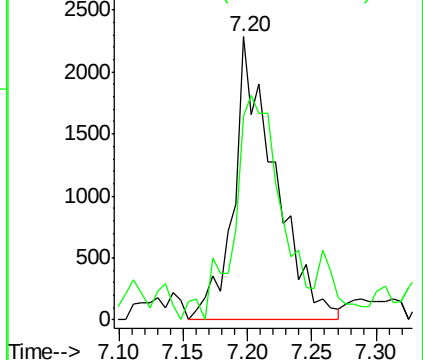
130 100

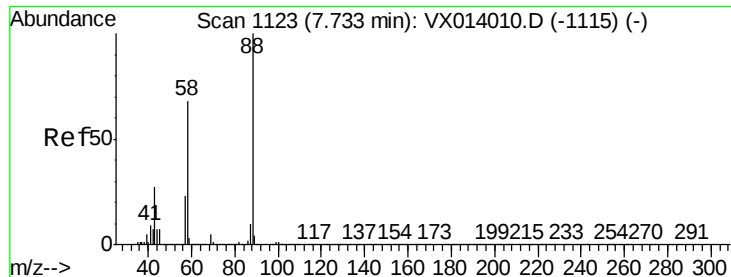
95 65.4 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.937 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

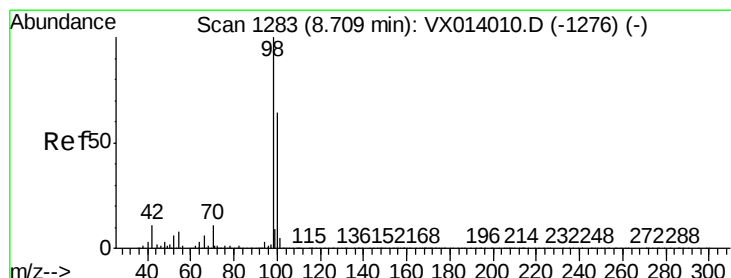
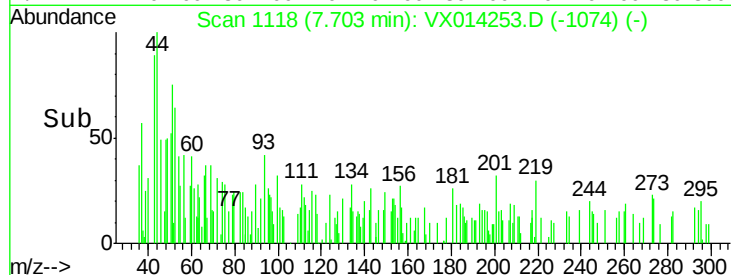
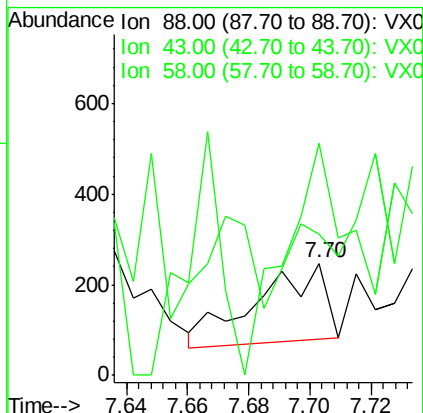
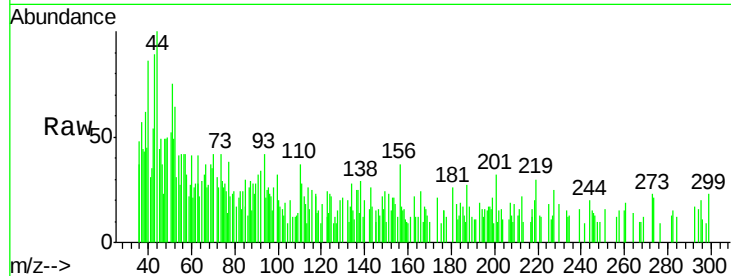
Tgt Ion: 88 Resp: 268

Ion Ratio Lower Upper

88 100

43 291.8 26.5 39.7#

58 219.8 56.8 85.2#



#50

Toluene-d8

Concen: 49.828 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014253.D

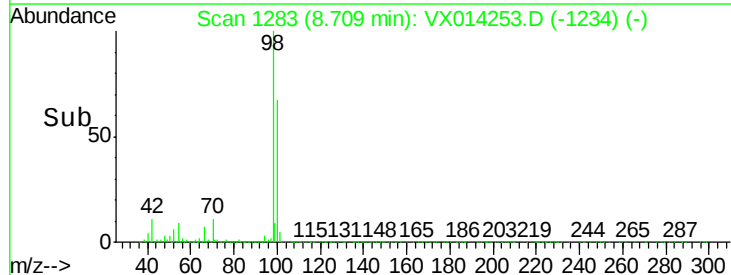
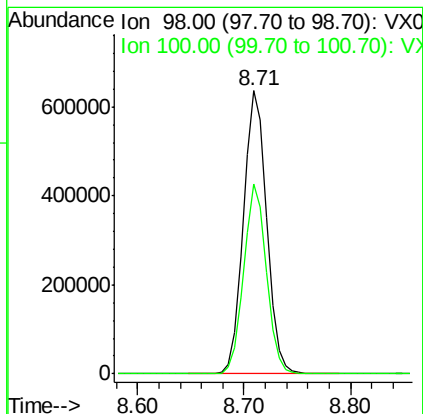
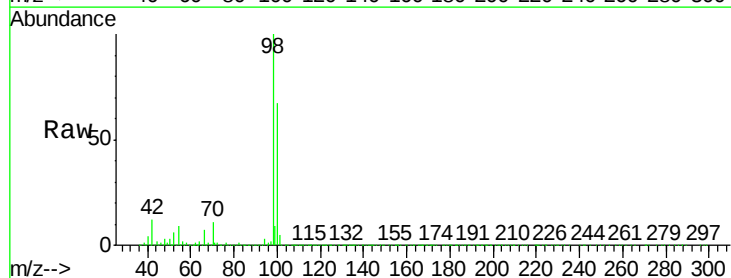
Acq: 24 Dec 2019 18:21

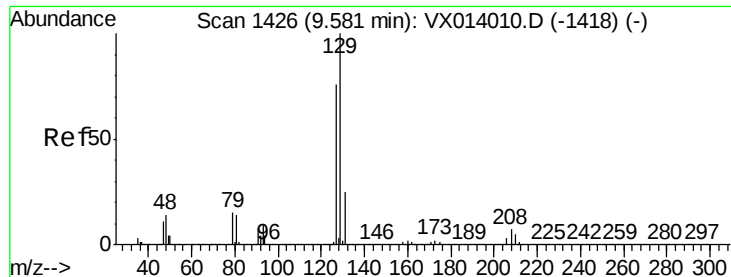
Tgt Ion: 98 Resp: 976350

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3





#60

Dibromochloromethane

Concen: 3.025 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

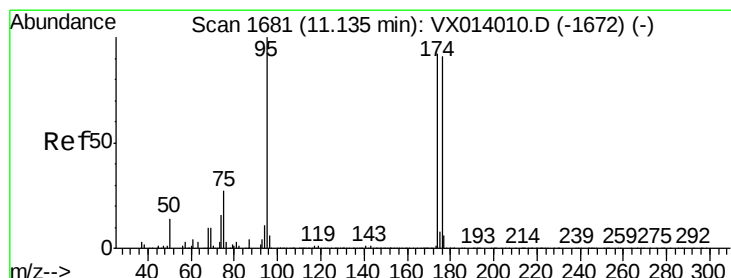
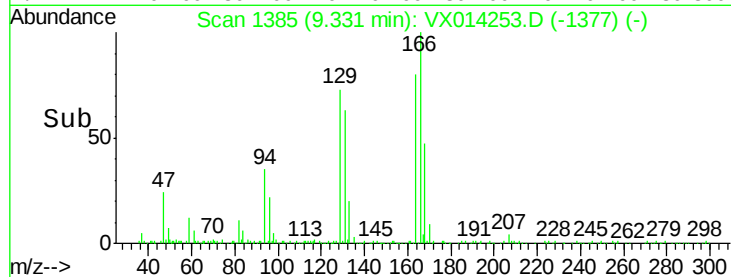
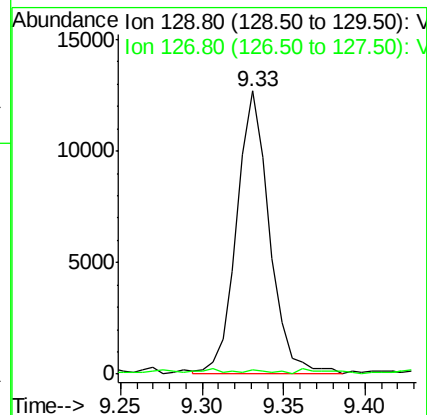
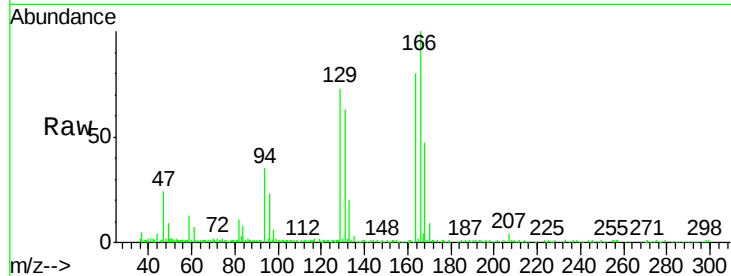
997-MW-16-(22.5)

Tgt Ion:129 Resp: 17805

Ion Ratio Lower Upper

129 100

127 1.1 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 45.599 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

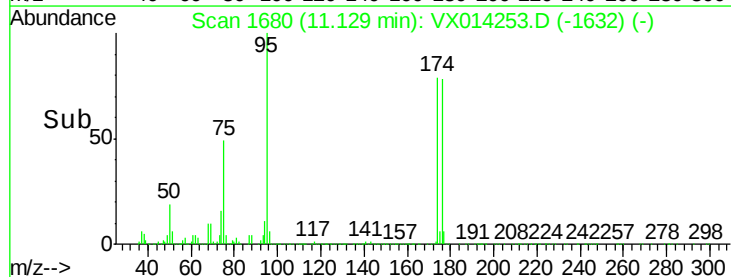
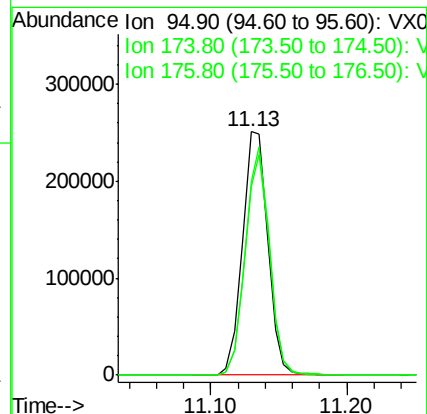
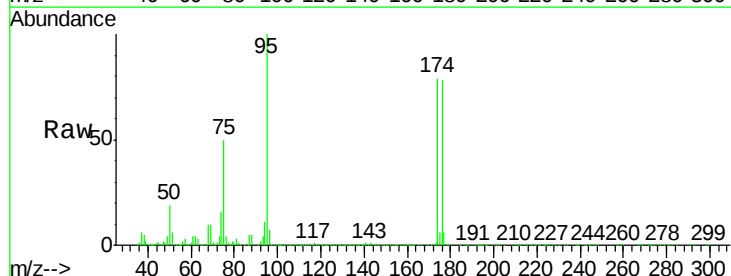
Tgt Ion: 95 Resp: 326607

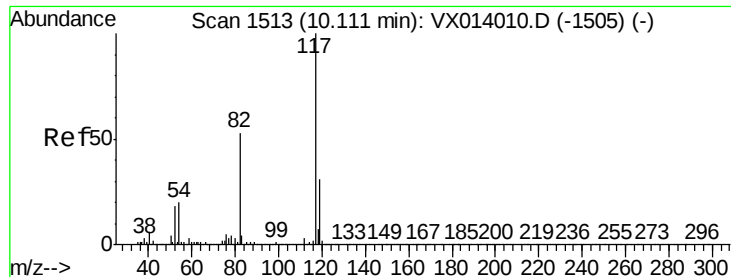
Ion Ratio Lower Upper

95 100

174 89.7 0.0 175.8

176 86.5 0.0 173.0

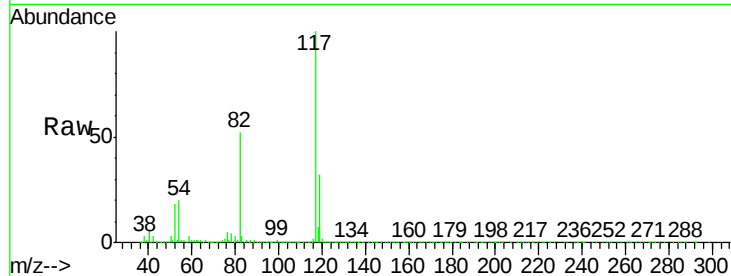




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Instrument :
MSVOA_X
ClientSampleId :
997-MW-16-(22.5)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.2	63.4
119	31.9	25.1	37.7

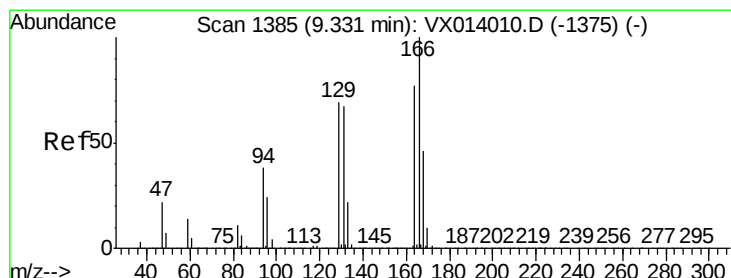
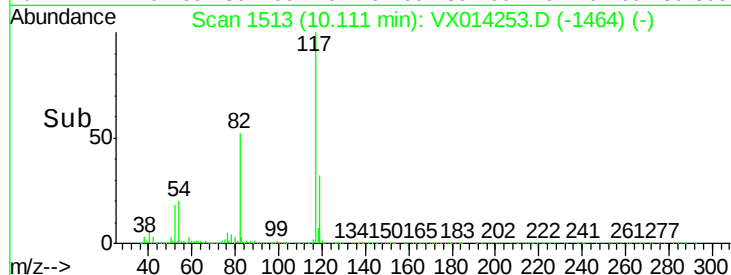
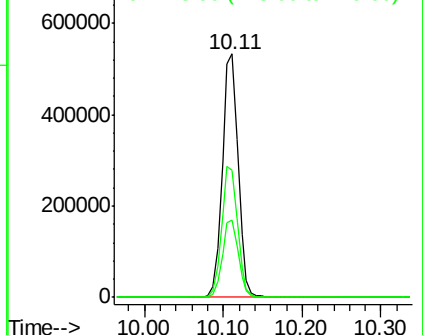


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 3.016 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014253.D
Acq: 24 Dec 2019 18:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.8	104.0	156.0
129	90.7	72.2	108.4
131	77.8	69.6	104.4

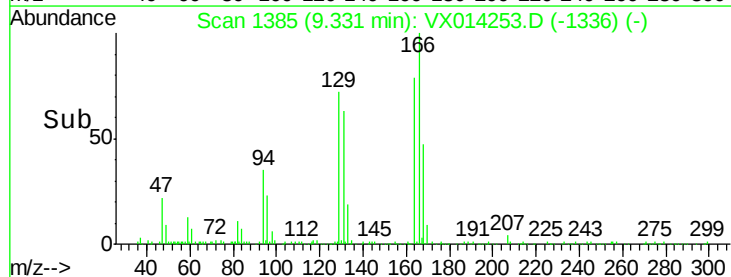
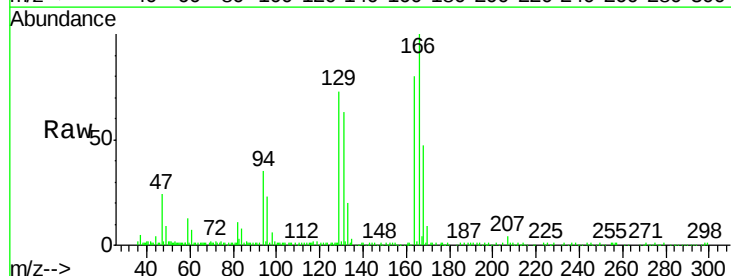
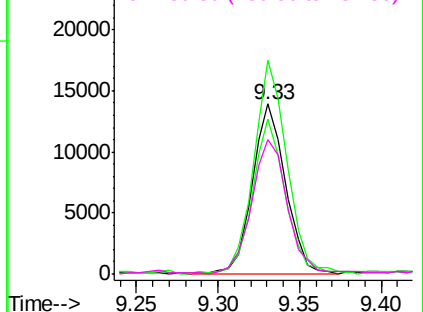
Abundance

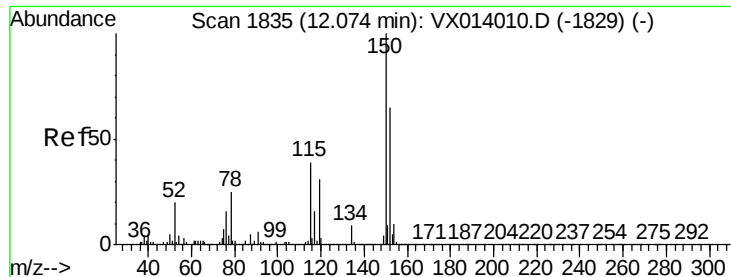
Ion 163.80 (163.50 to 164.50): V

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: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

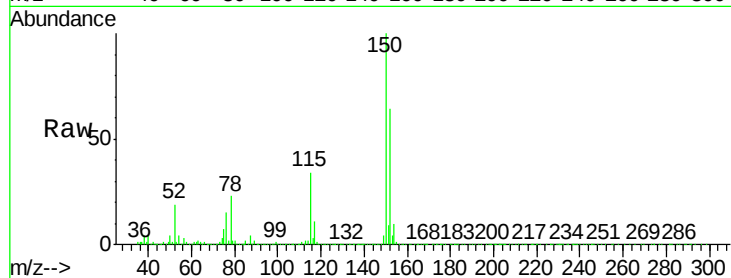
Tgt Ion: 152 Resp: 325329

Ion Ratio Lower Upper

152 100

115 55.2 38.3 114.9

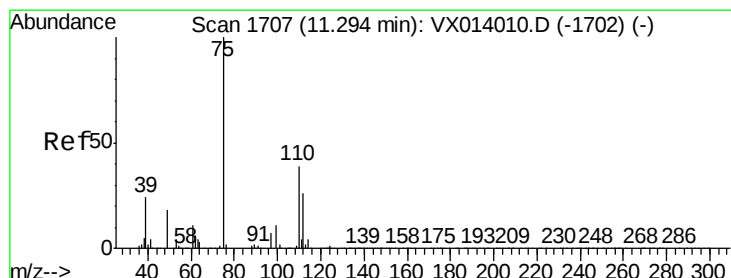
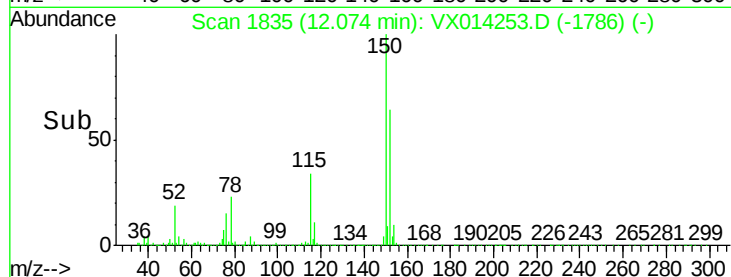
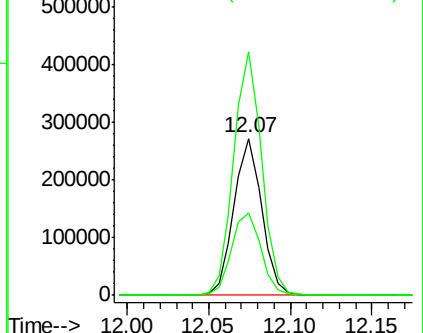
150 155.8 0.0 345.4



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: 22.643 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014253.D

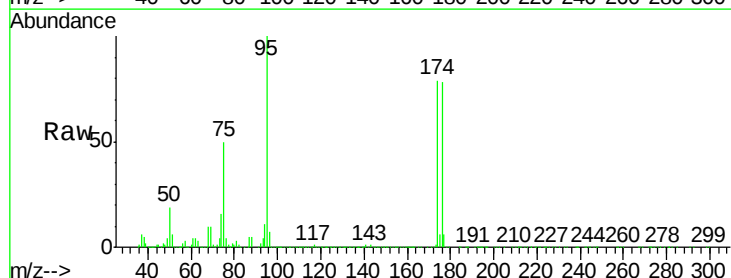
Acq: 24 Dec 2019 18:21

Tgt Ion: 75 Resp: 159922

Ion Ratio Lower Upper

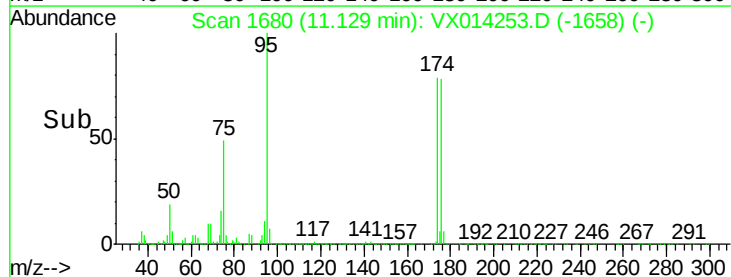
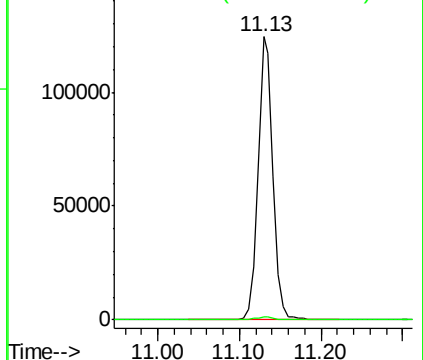
75 100

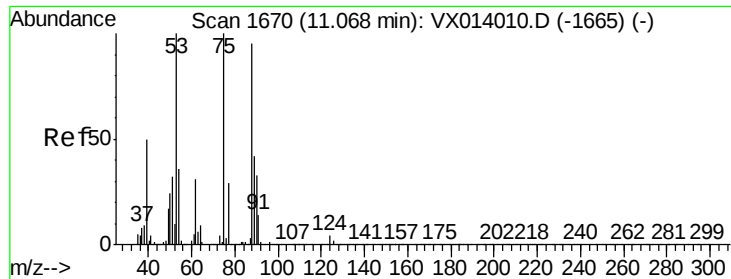
77 1.2 19.3 57.8#



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: 63.910 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014253.D

Acq: 24 Dec 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

997-MW-16-(22.5)

Tgt Ion: 75 Resp: 159922

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.1 34.6 51.8#

