

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014284.D
 Acq On : 26 Dec 2019 21:00
 Operator : JC/SP
 Sample : K6434-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-2

Quant Time: Dec 27 06:06:22 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	514588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	805965	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	715039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	314678	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	293690	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	5.49	113	240625	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
50) Toluene-d8	8.71	98	947158	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	11.13	95	316365	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	

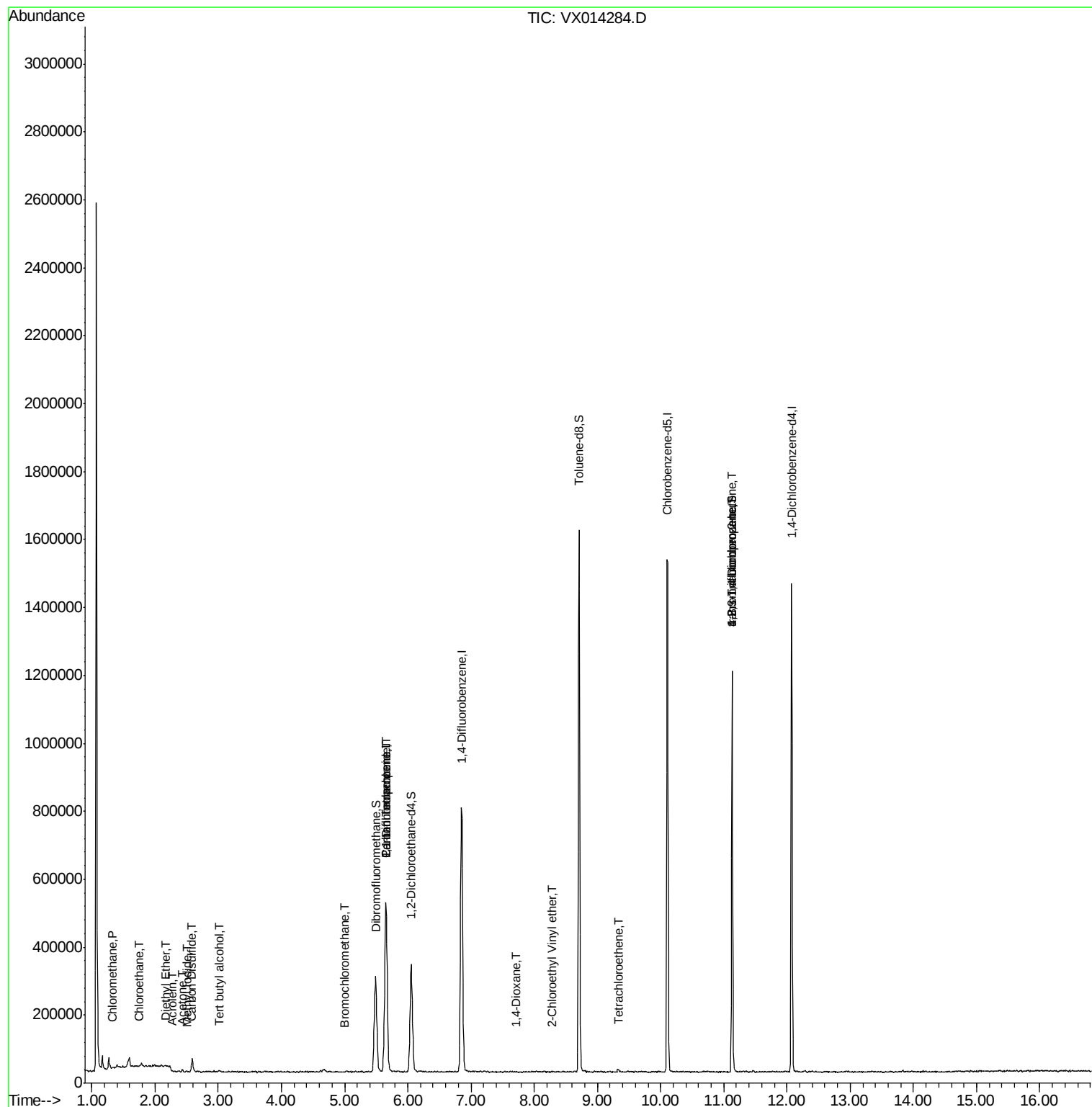
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1746	0.283	ug/l	99
6) Chloroethane	1.76	64	966	0.240	ug/l #	76
8) Diethyl Ether	2.17	74	944	0.249	ug/l	62
10) Methyl Iodide	2.51	142	525	2.698	ug/l #	89
11) Tert butyl alcohol	3.03	59	3531	2.802	ug/l #	83
13) Acrolein	2.27	56	346	0.480	ug/l #	68
16) Acetone	2.43	43	7760	2.049	ug/l	98
17) Carbon Disulfide	2.57	76	1022	0.823	ug/l #	63
28) Bromochloromethane	5.00	49	1121	0.749	ug/l #	9
36) 1,1-Dichloropropene	5.65	75	35726	4.831	ug/l #	51
38) Carbon Tetrachloride	5.65	117	44530	6.610	ug/l #	16
49) 1,4-Dioxane	7.73	88	803	5.962	ug/l #	78
58) 2-Chloroethyl Vinyl ether	8.29	63	691	0.202	ug/l #	1
64) Tetrachloroethene	9.34	164	2519	0.398	ug/l #	85
76) 1,2,3-Trichloropropane	11.13	75	153184	22.423	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	153184	63.289	ug/l #	11

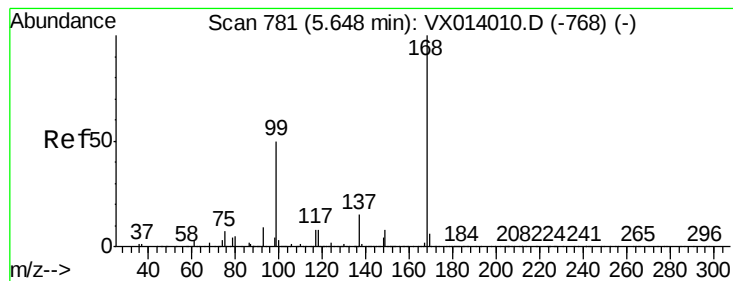
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
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QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

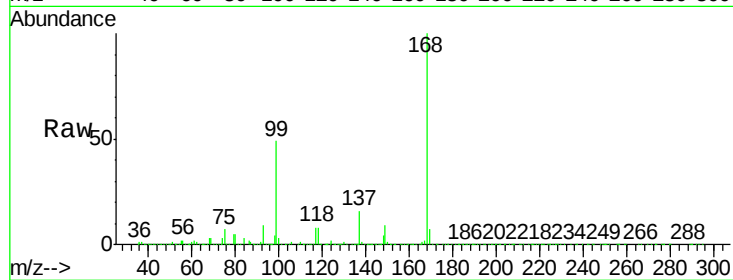
GW-2

Tgt Ion:168 Resp: 514588

Ion Ratio Lower Upper

168 100

99 49.4 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

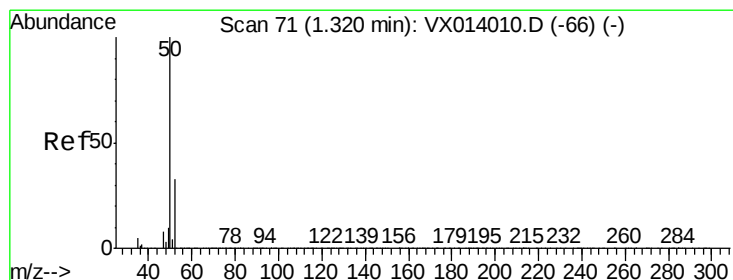
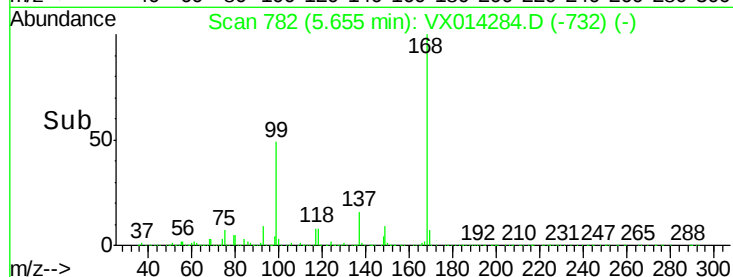
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.283 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014284.D

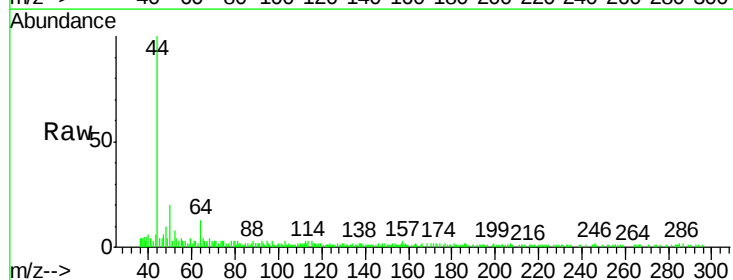
Acq: 26 Dec 2019 21:00

Tgt Ion: 50 Resp: 1746

Ion Ratio Lower Upper

50 100

52 32.1 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

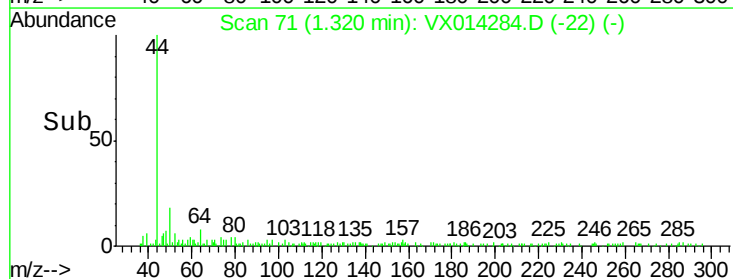
1500

1000

500

0

Time-->





#6

Chloroethane

Concen: 0.240 ug/l

RT: 1.76 min Scan# 143

Delta R.T. 0.06 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

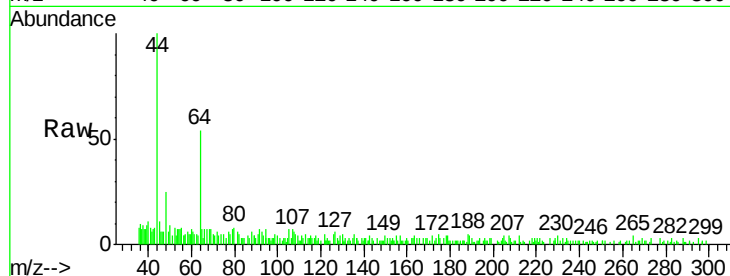
GW-2

Tgt Ion: 64 Resp: 966

Ion Ratio Lower Upper

64 100

66 16.7 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.76

2500

2000

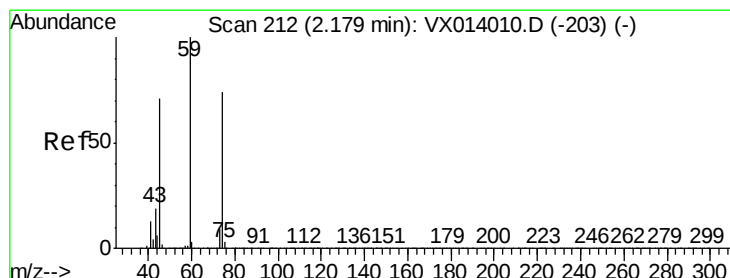
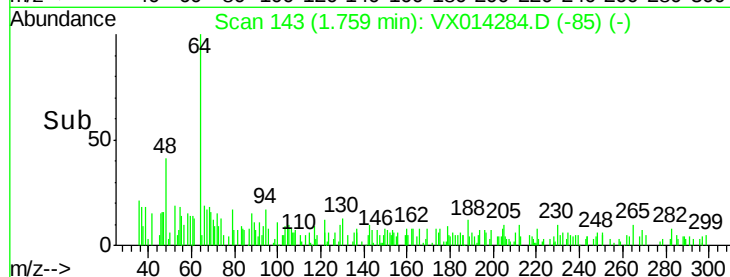
1500

1000

500

0

Time--> 1.72 1.74 1.76 1.78 1.80



#8

Diethyl Ether

Concen: 0.249 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX014284.D

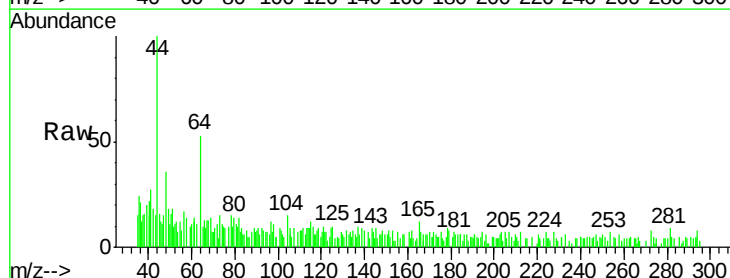
Acq: 26 Dec 2019 21:00

Tgt Ion: 74 Resp: 944

Ion Ratio Lower Upper

74 100

45 59.4 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

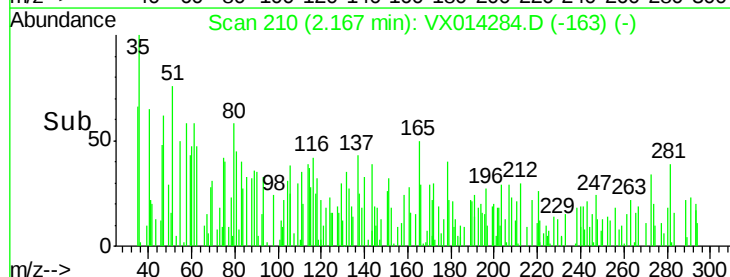
600

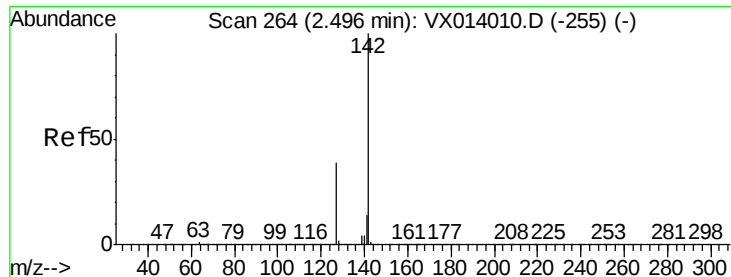
400

200

0

Time--> 2.15 2.20





#10

Methyl Iodide

Concen: 2.698 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

GW-2

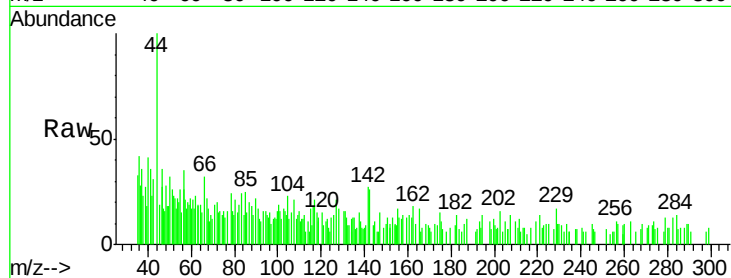
Tgt Ion: 142 Resp: 525

Ion Ratio Lower Upper

142 100

127 32.4 31.6 47.4

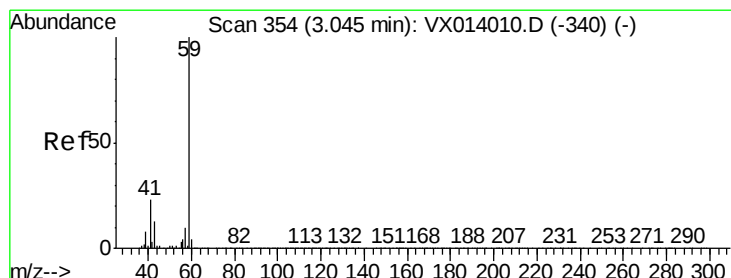
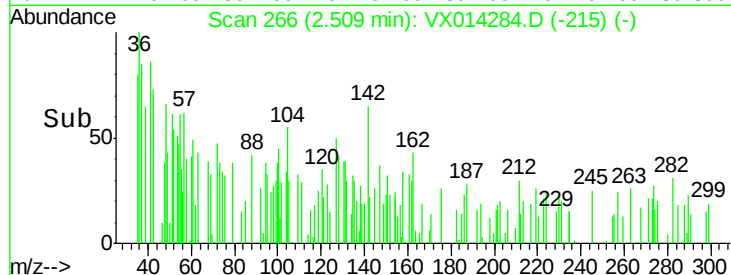
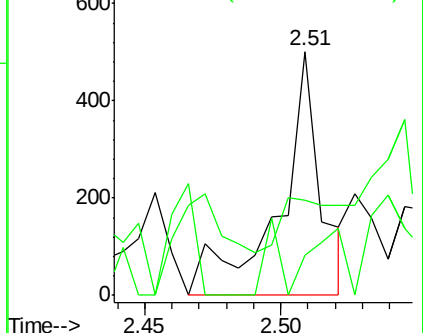
141 11.0 11.6 17.4#



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



#11

Tert butyl alcohol

Concen: 2.802 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.02 min

Lab File: VX014284.D

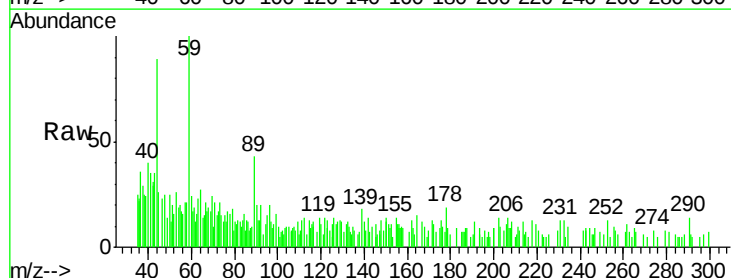
Acq: 26 Dec 2019 21:00

Tgt Ion: 59 Resp: 3531

Ion Ratio Lower Upper

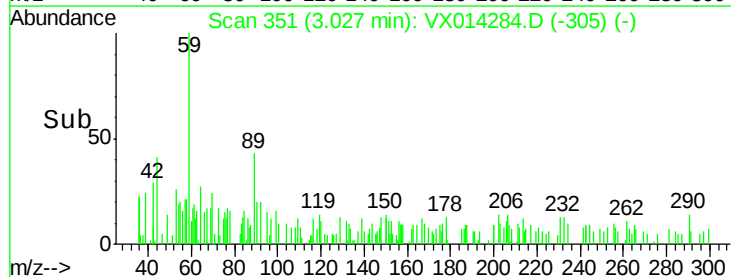
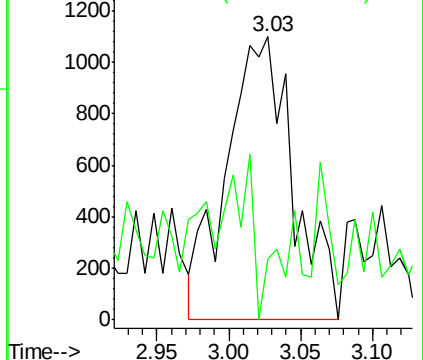
59 100

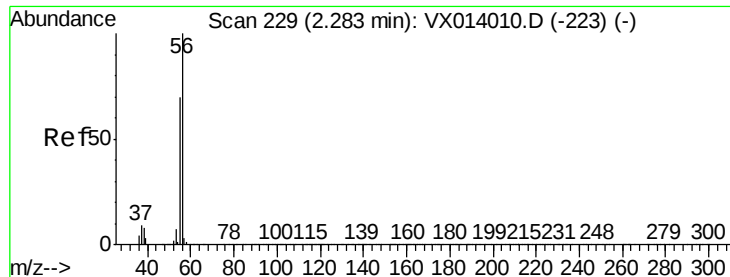
57 16.7 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.480 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

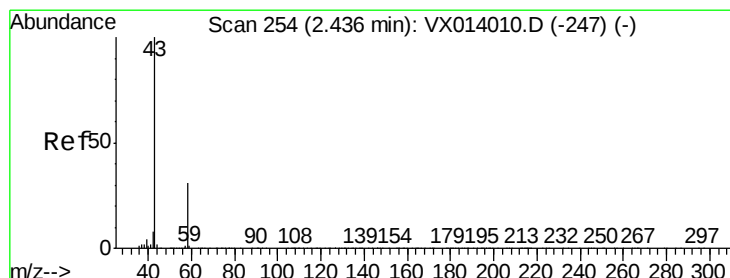
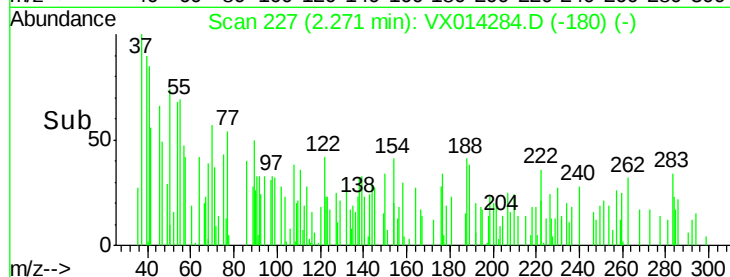
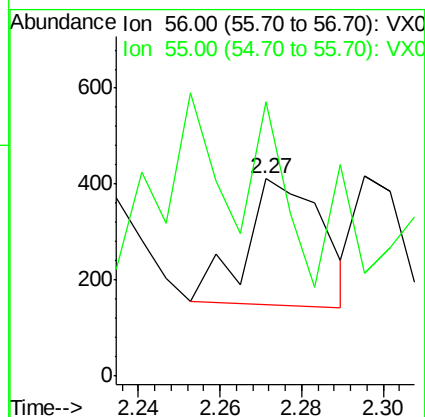
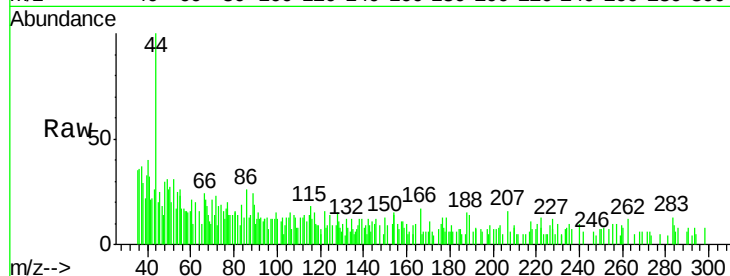
GW-2

Tgt Ion: 56 Resp: 346

Ion Ratio Lower Upper

56 100

55 97.7 56.9 85.3#



#16

Acetone

Concen: 2.049 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014284.D

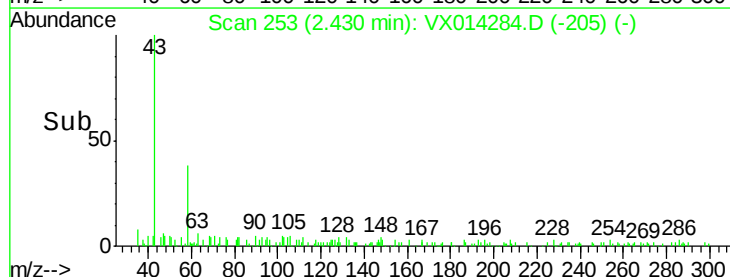
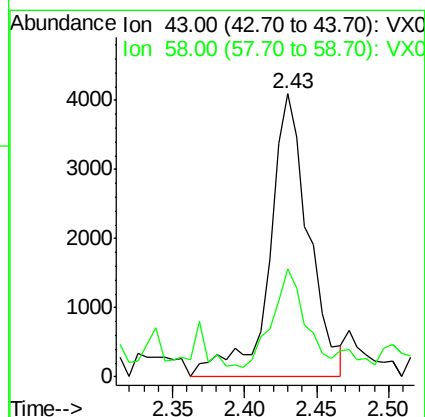
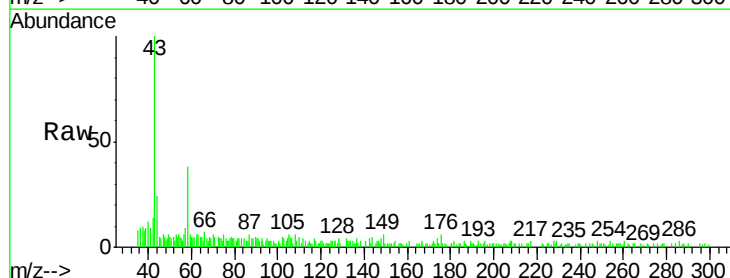
Acq: 26 Dec 2019 21:00

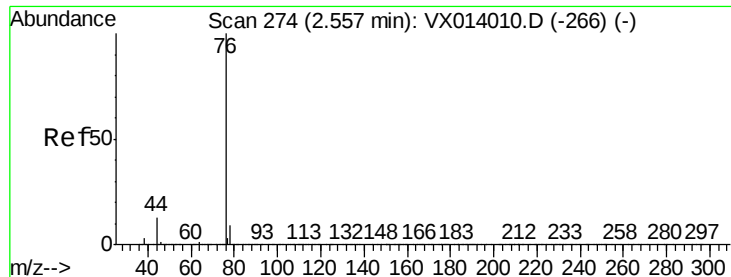
Tgt Ion: 43 Resp: 7760

Ion Ratio Lower Upper

43 100

58 32.2 24.9 37.3

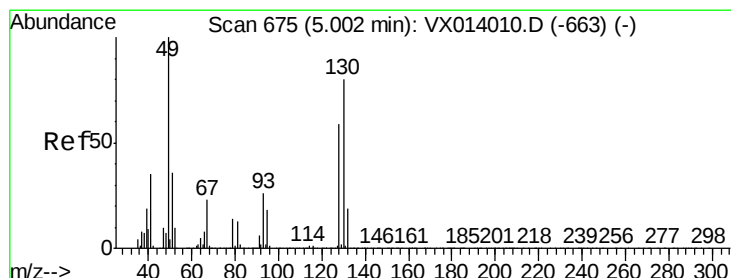
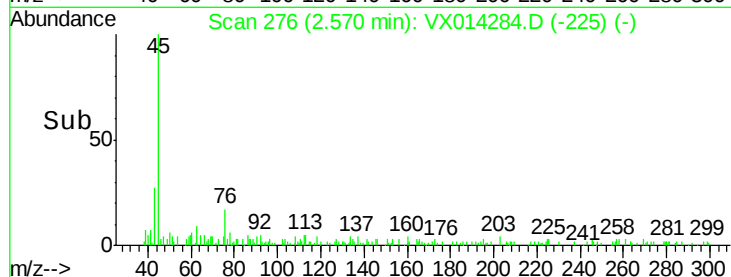
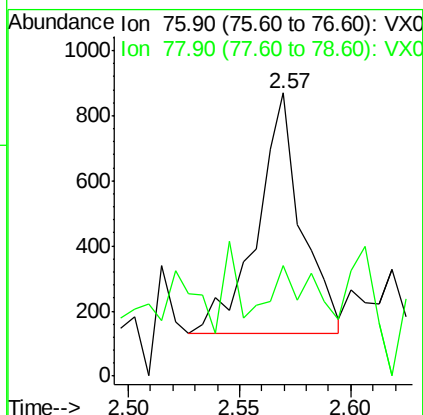
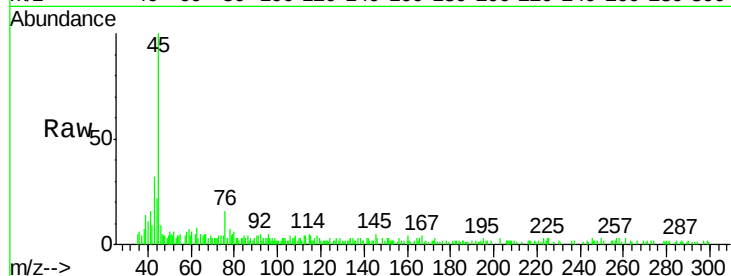




#17
Carbon Disulfide
Concen: 0.823 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014284.D
Acq: 26 Dec 2019 21:00

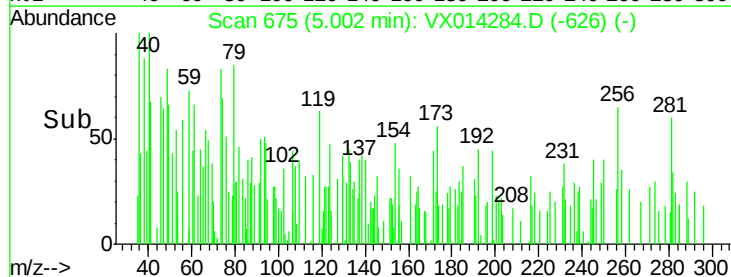
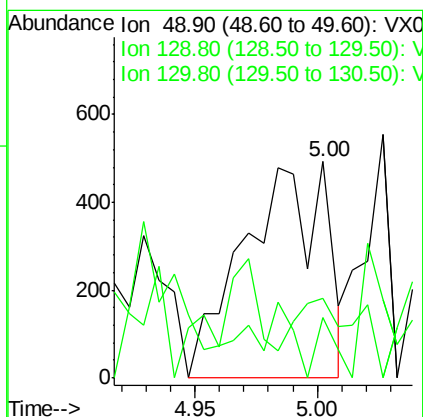
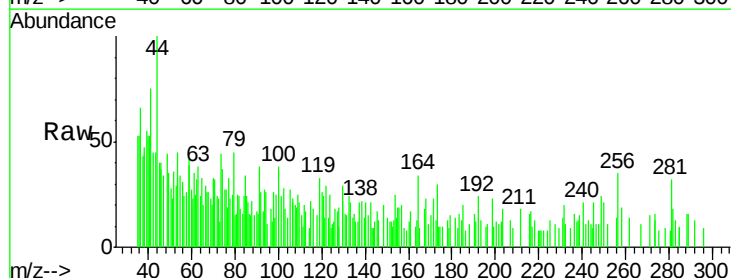
Instrument :
MSVOA_X
ClientSampleId :
GW-2

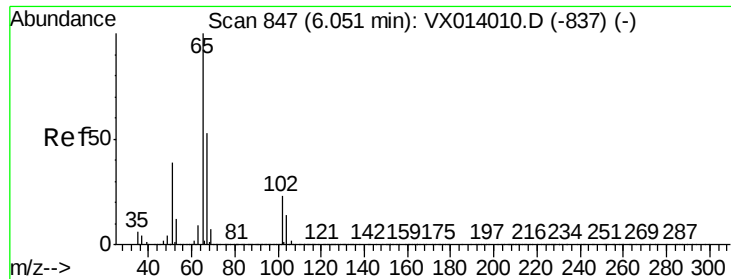
Tgt Ion: 76 Resp: 1022
Ion Ratio Lower Upper
76 100
78 22.5 7.2 10.8#



#28
Bromochloromethane
Concen: 0.749 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014284.D
Acq: 26 Dec 2019 21:00

Tgt Ion: 49 Resp: 1121
Ion Ratio Lower Upper
49 100
129 28.8 0.0 5.0#
130 0.0 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 50.357 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

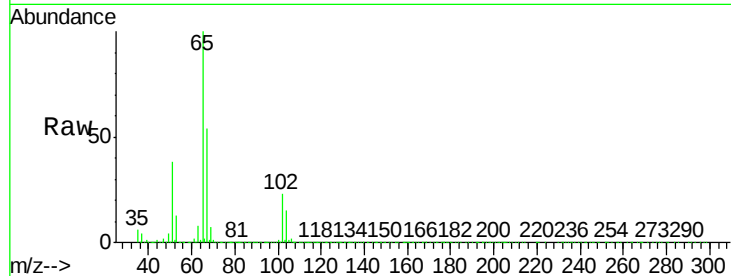
GW-2

Tgt Ion: 65 Resp: 293690

Ion Ratio Lower Upper

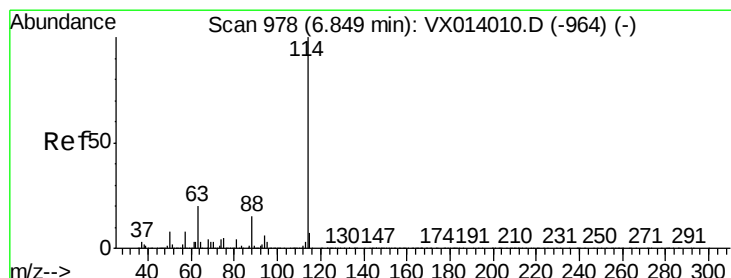
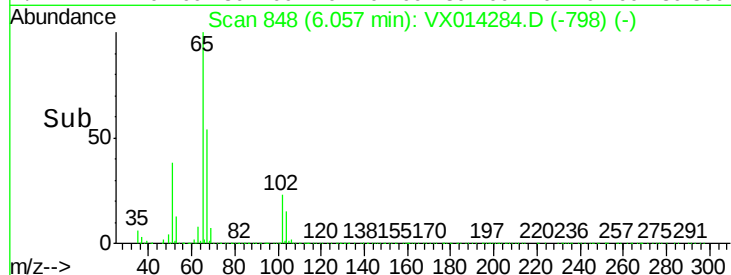
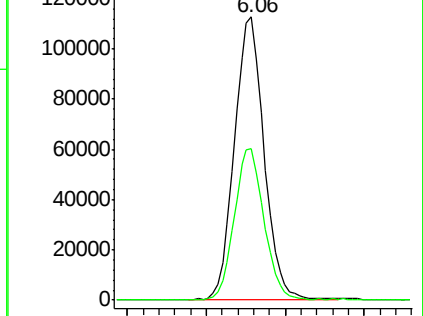
65 100

67 53.6 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: VX014284.D

Acq: 26 Dec 2019 21:00

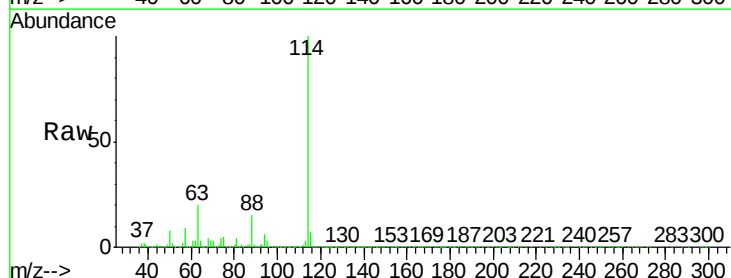
Tgt Ion: 114 Resp: 805965

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

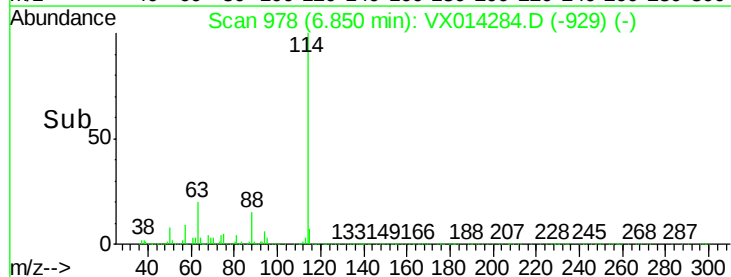
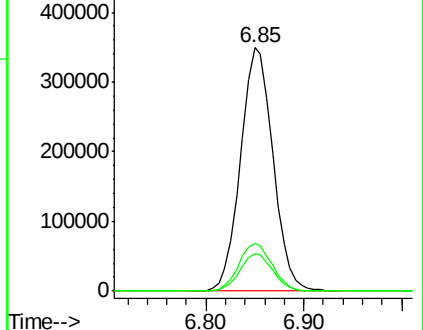
88 15.1 0.0 30.4

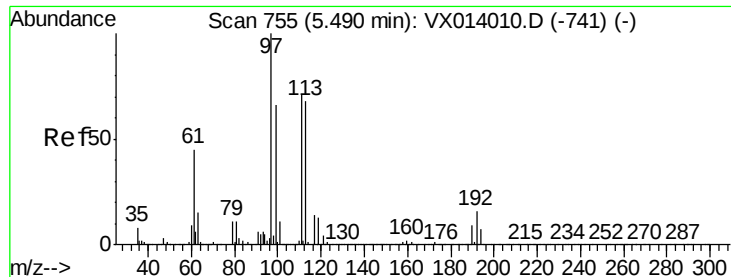


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.113 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

GW-2

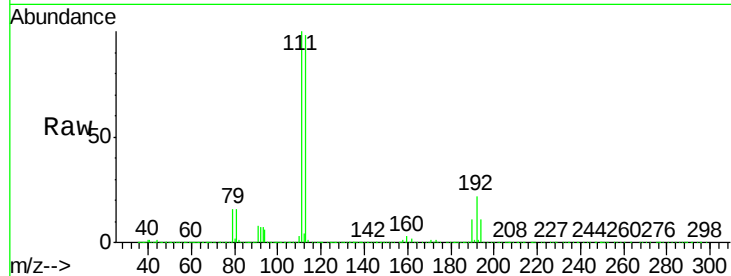
Tgt Ion: 113 Resp: 240625

Ion Ratio Lower Upper

113 100

111 103.2 82.0 123.0

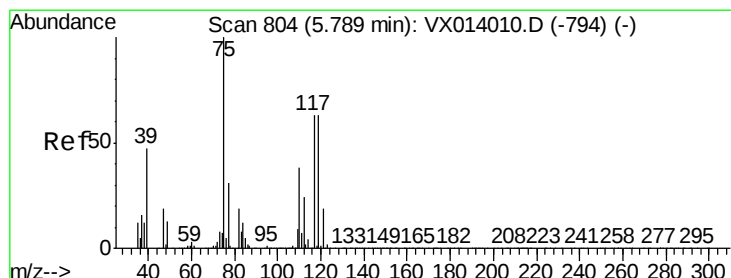
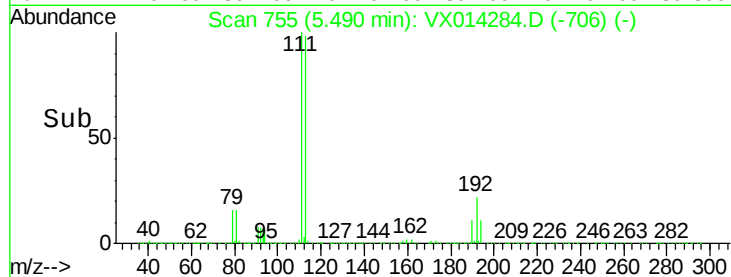
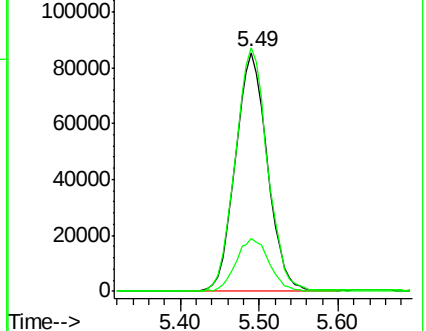
192 23.0 19.3 28.9



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: 4.831 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

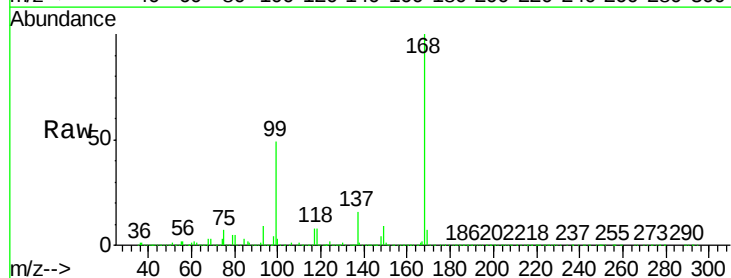
Tgt Ion: 75 Resp: 35726

Ion Ratio Lower Upper

75 100

110 11.3 18.3 54.9#

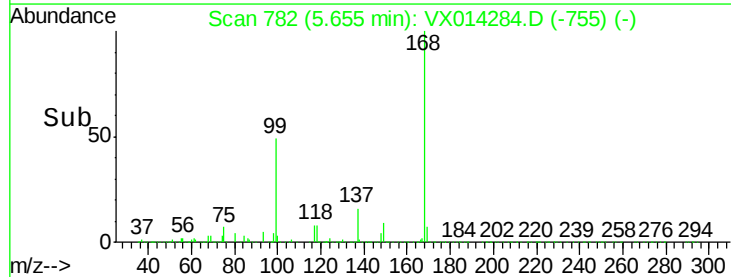
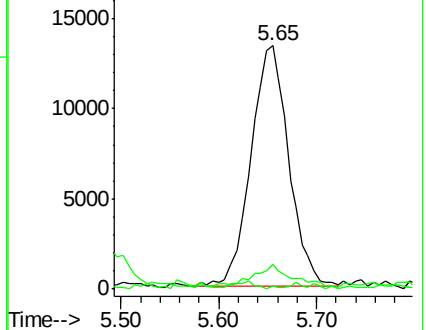
77 0.0 24.8 37.2#

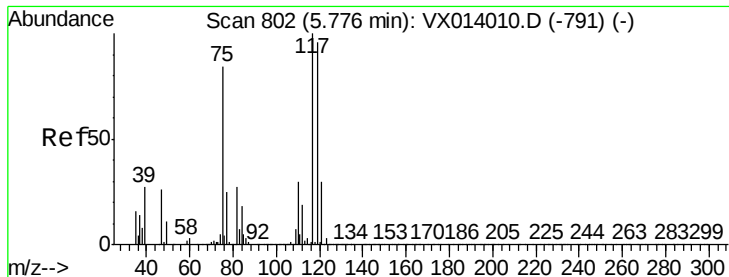


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.610 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampled :

GW-2

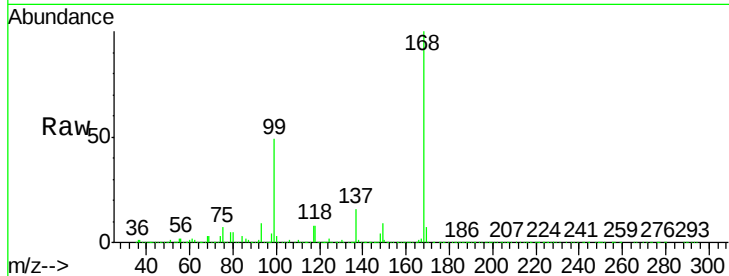
Tgt Ion: 117 Resp: 44530

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.4#

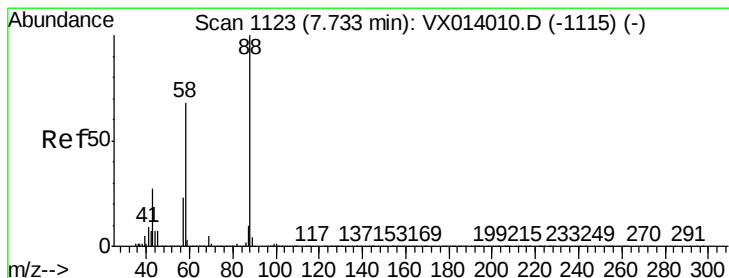
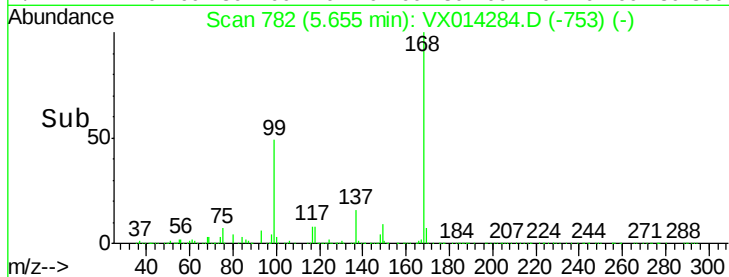
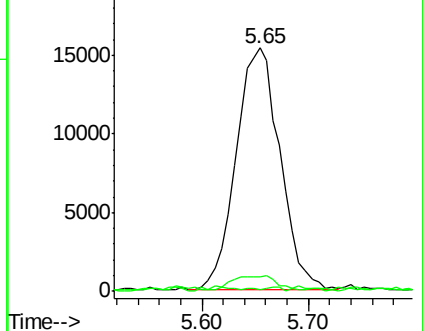
121 0.4 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 5.962 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

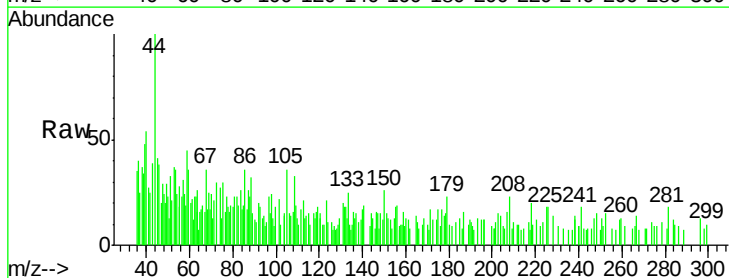
Tgt Ion: 88 Resp: 803

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

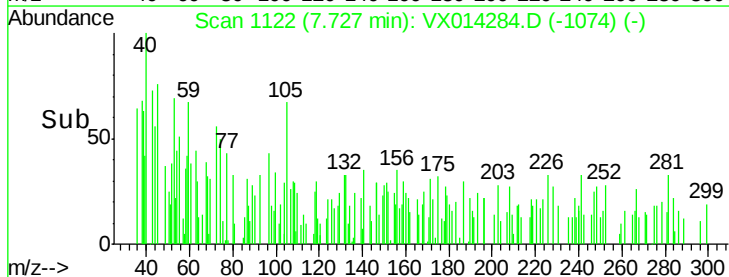
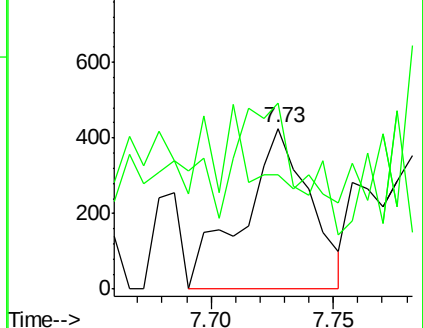
58 75.5 56.8 85.2

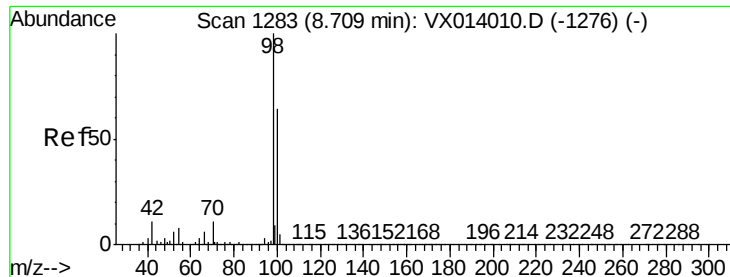


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.656 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

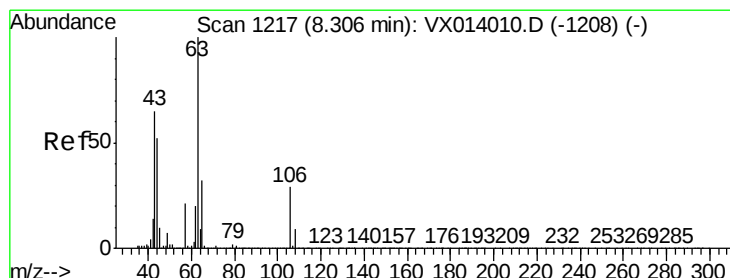
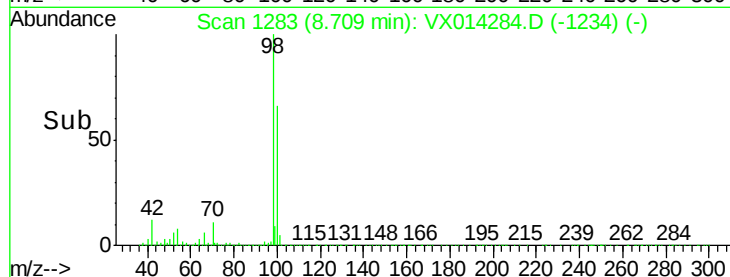
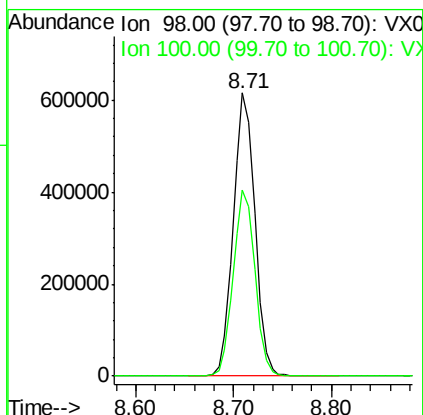
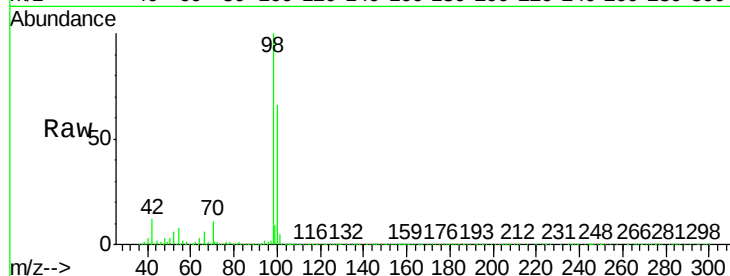
GW-2

Tgt Ion: 98 Resp: 947158

Ion Ratio Lower Upper

98 100

100 66.1 52.9 79.3



#58

2-Chloroethyl Vinyl ether

Concen: 0.202 ug/l

RT: 8.29 min Scan# 1214

Delta R.T. -0.02 min

Lab File: VX014284.D

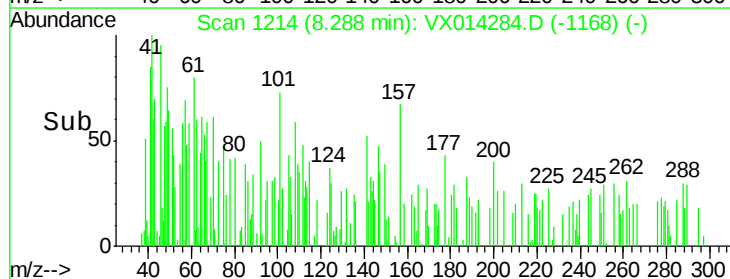
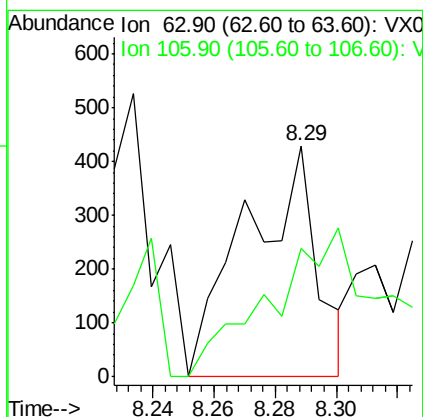
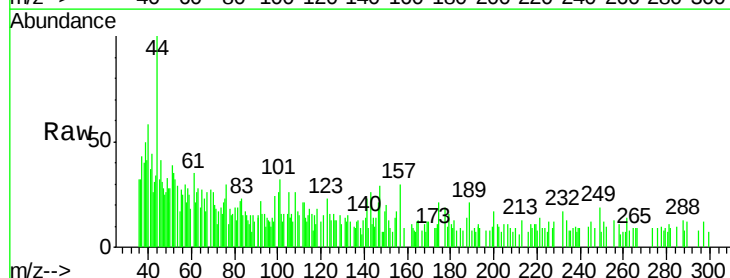
Acq: 26 Dec 2019 21:00

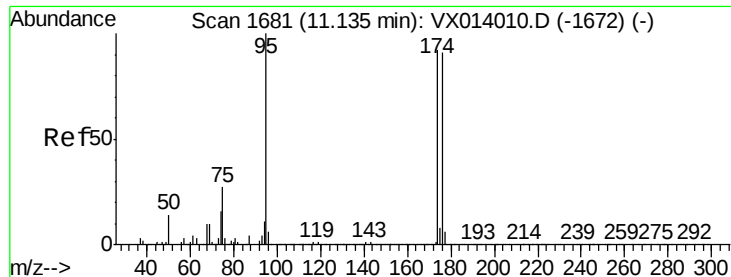
Tgt Ion: 63 Resp: 691

Ion Ratio Lower Upper

63 100

106 96.5 23.0 34.6#





#62

4-Bromofluorobenzene

Concen: 45.373 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

GW-2

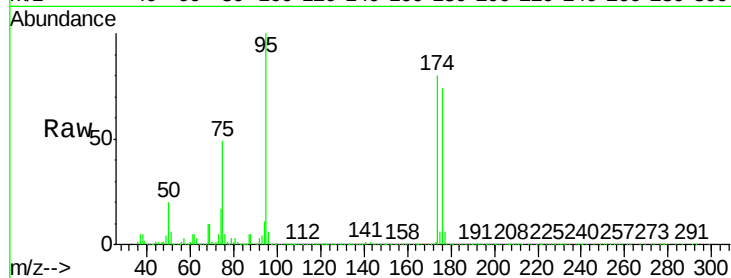
Tgt Ion: 95 Resp: 316365

Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.8

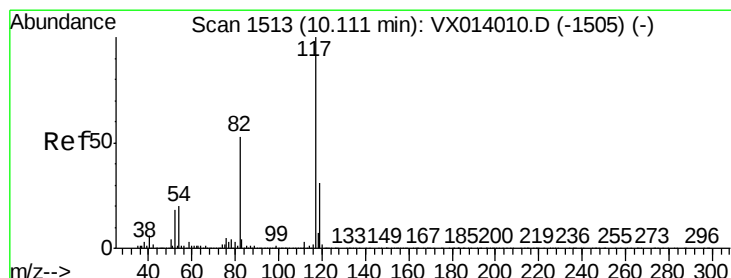
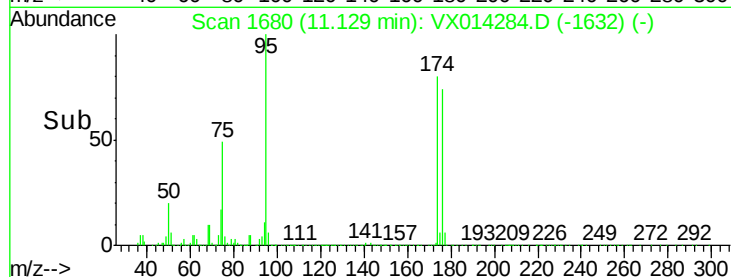
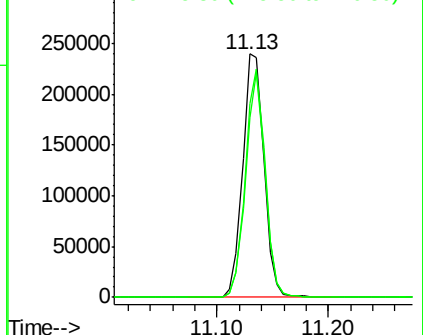
176 84.9 0.0 173.0



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: VX014284.D

Acq: 26 Dec 2019 21:00

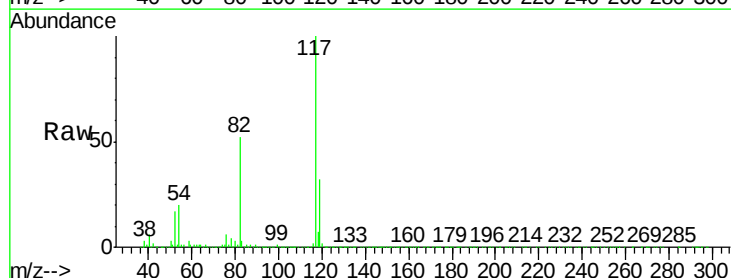
Tgt Ion: 117 Resp: 715039

Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

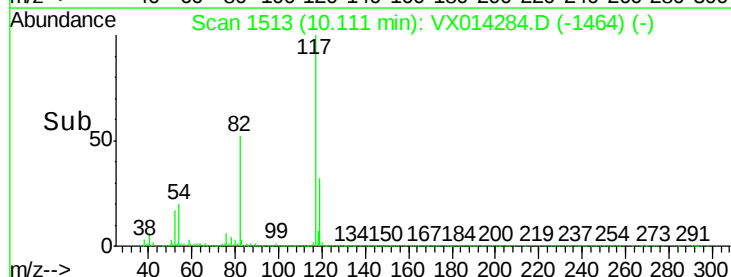
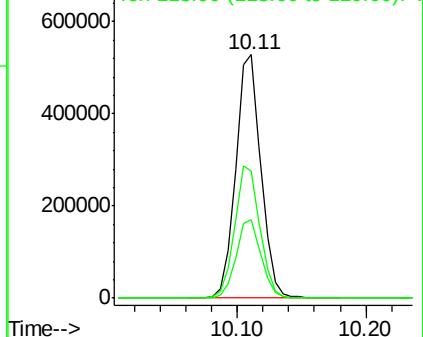
119 32.3 25.1 37.7

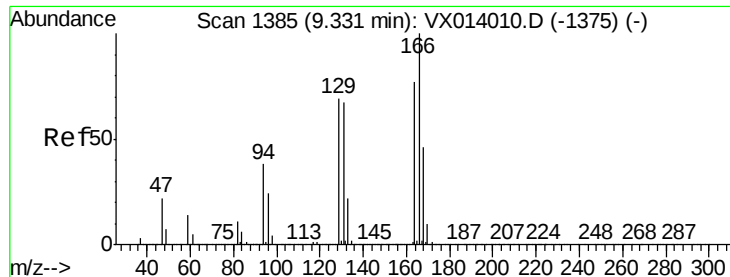


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.398 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

GW-2

Tgt Ion:164 Resp: 2519

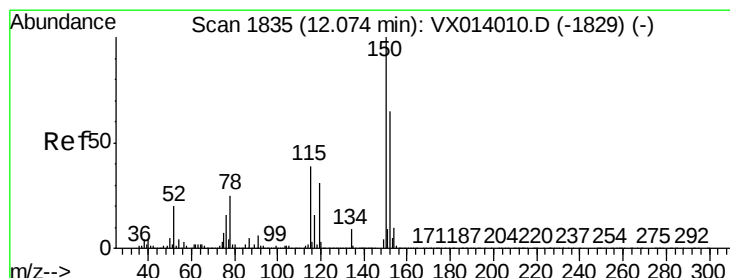
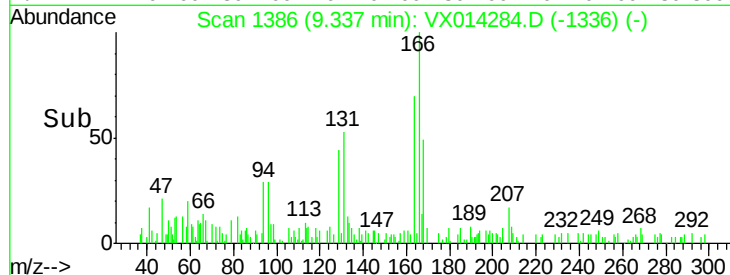
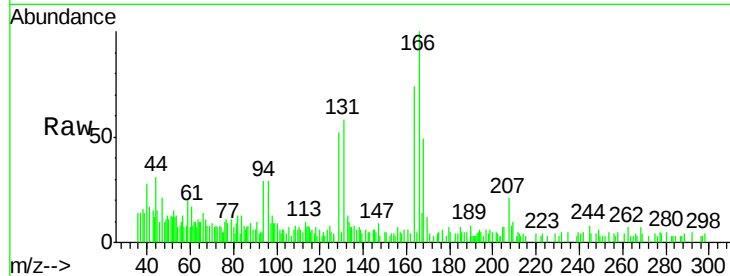
Ion Ratio Lower Upper

164 100

166 124.4 104.0 156.0

129 67.3 72.2 108.4#

131 68.8 69.6 104.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014284.D

Acq: 26 Dec 2019 21:00

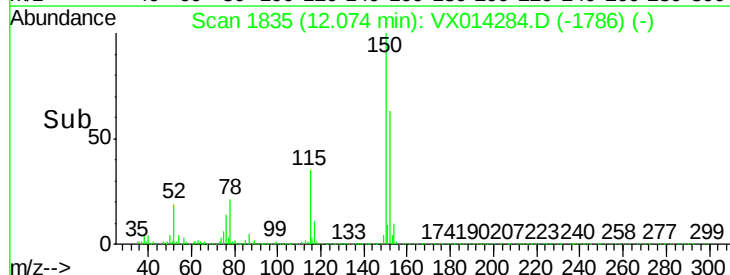
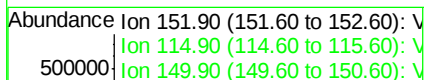
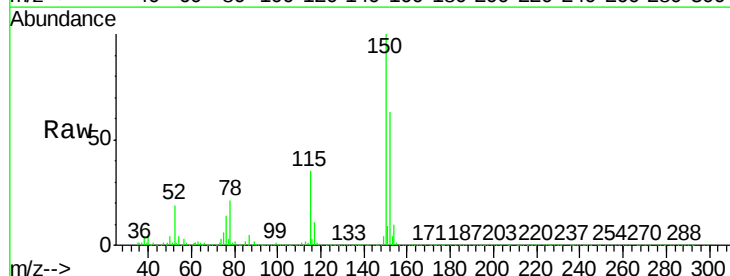
Tgt Ion:152 Resp: 314678

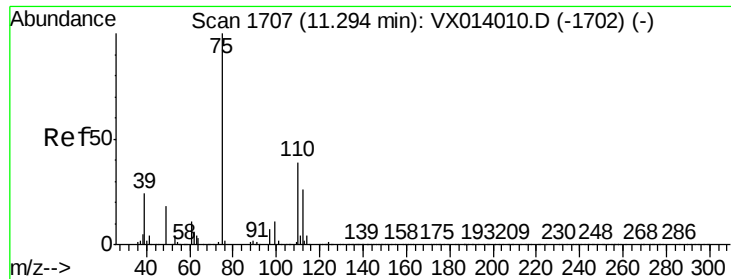
Ion Ratio Lower Upper

152 100

115 55.2 38.3 114.9

150 154.6 0.0 345.4

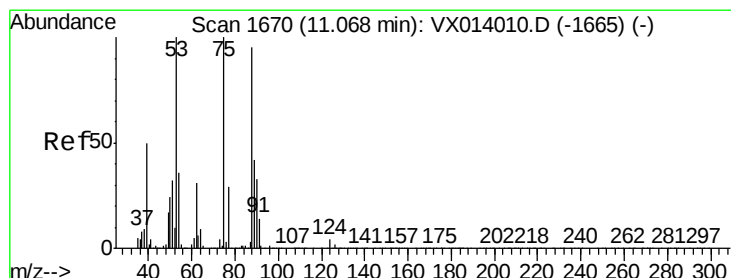
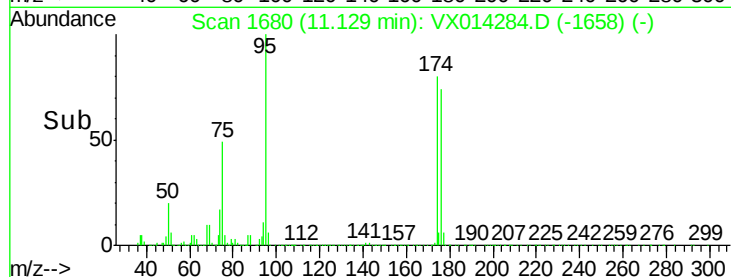
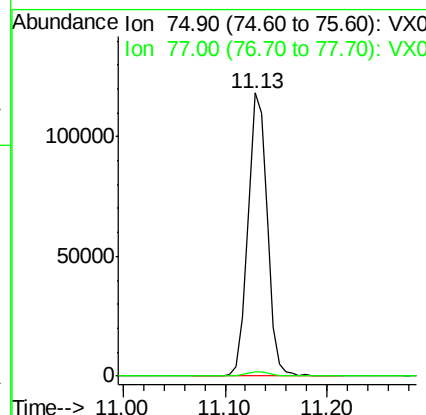
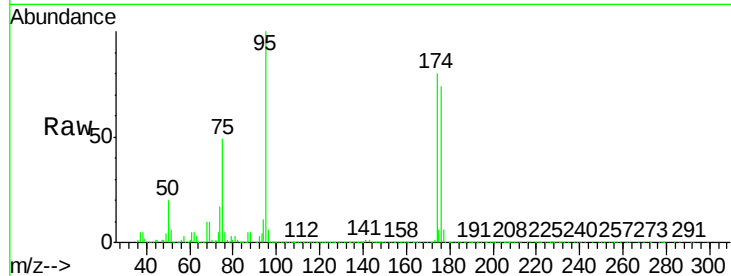




#76
 1,2,3-Trichloropropane
 Concen: 22.423 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014284.D
 Acq: 26 Dec 2019 21:00

Instrument :
 MSVOA_X
 ClientSampled :
 GW-2

Tgt Ion: 75 Resp: 153184
 Ion Ratio Lower Upper
 75 100
 77 1.6 19.3 57.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.289 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014284.D
 Acq: 26 Dec 2019 21:00

Tgt Ion: 75 Resp: 153184
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.7 115.1#
 89 0.0 34.6 51.8#

