

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014358.D
 Acq On : 30 Dec 2019 16:56
 Operator : JC/SP
 Sample : K6461-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-4

Quant Time: Dec 31 01:20:26 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	514213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	801907	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	722820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	313437	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	288470	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
35) Dibromofluoromethane	5.49	113	242824	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	8.71	98	957850	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	319569	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	

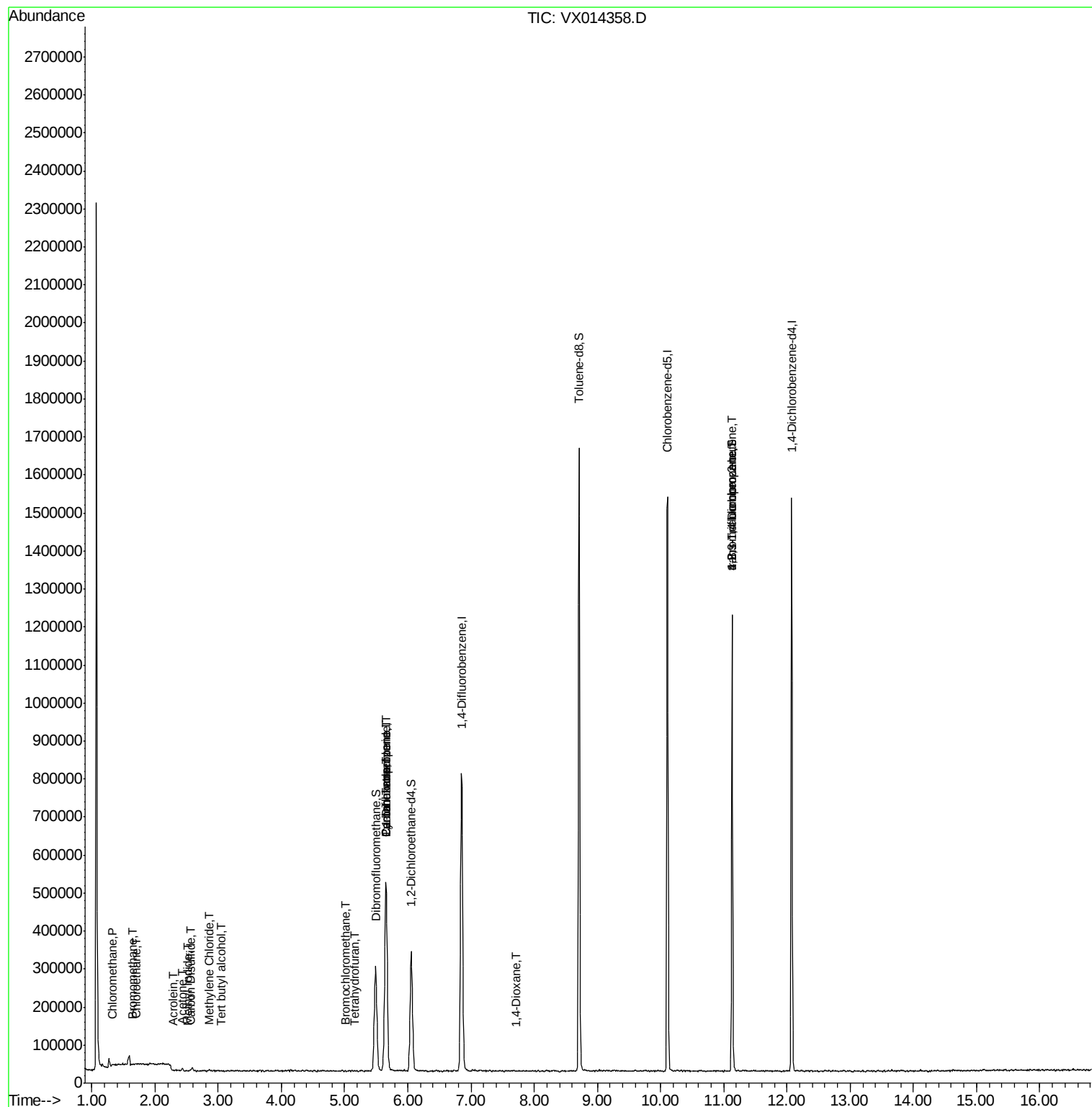
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2527	0.409	ug/l #	84
5) Bromomethane	1.64	94	1383	0.299	ug/l #	58
6) Chloroethane	1.70	64	1056	0.263	ug/l #	46
10) Methyl Iodide	2.51	142	339	2.671	ug/l #	1
11) Tert butyl alcohol	3.05	59	274	0.218	ug/l #	72
13) Acrolein	2.28	56	243	0.337	ug/l	95
16) Acetone	2.43	43	7026	1.857	ug/l #	81
17) Carbon Disulfide	2.56	76	1462	0.855	ug/l #	84
20) Methylene Chloride	2.86	84	1207	0.203	ug/l #	46
28) Bromochloromethane	5.00	49	318	0.537	ug/l #	6
29) Tetrahydrofuran	5.15	42	585	0.224	ug/l #	32
31) Cyclohexane	5.65	56	9185	1.055	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	34844	4.736	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46335	6.913	ug/l #	17
49) 1,4-Dioxane	7.72	88	576	4.299	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	153559	22.567	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	153559	63.695	ug/l #	12

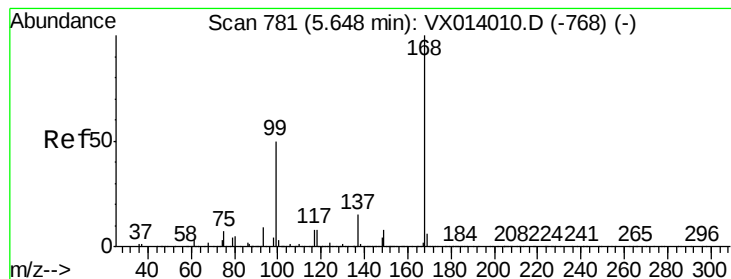
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampleId :

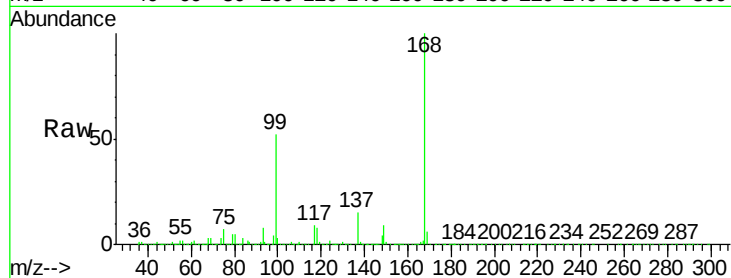
GW-4

Tot Ion:168 Resp: 514213

Ion Ratio Lower Upper

168 100

99 51.8 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

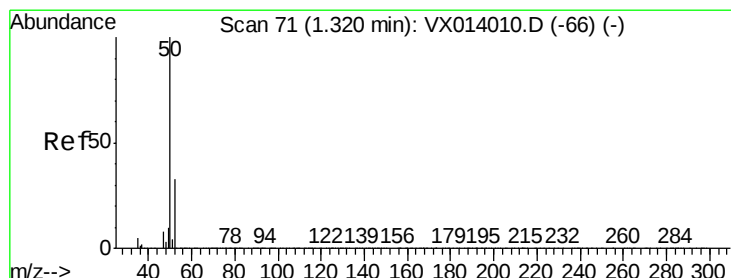
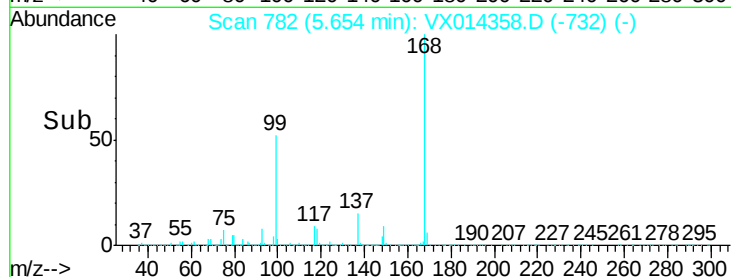
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.409 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014358.D

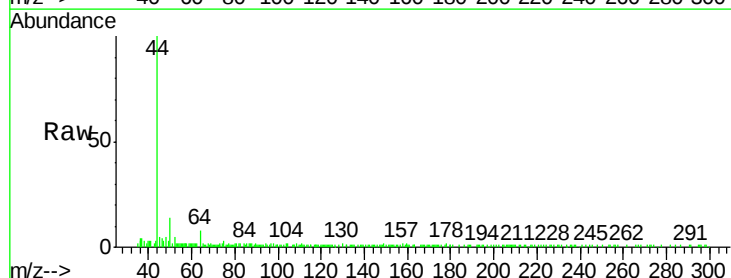
Acq: 30 Dec 2019 16:56

Tgt Ion: 50 Resp: 2527

Ion Ratio Lower Upper

50 100

52 41.6 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

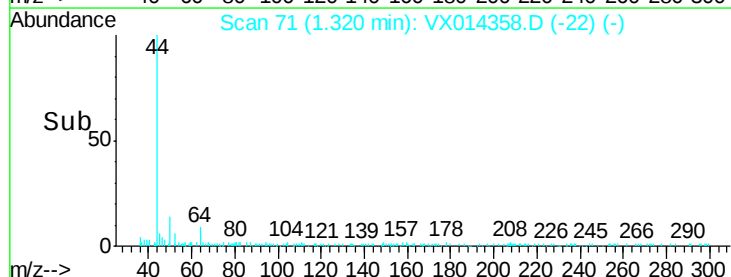
1500

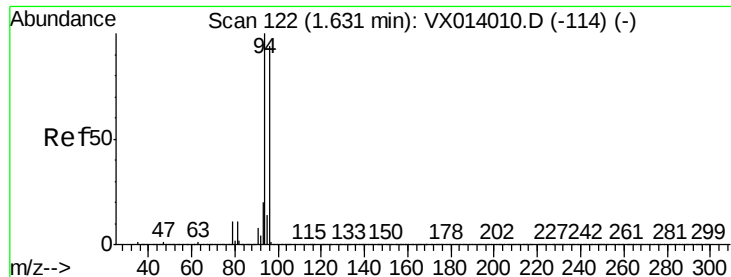
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.299 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampled :

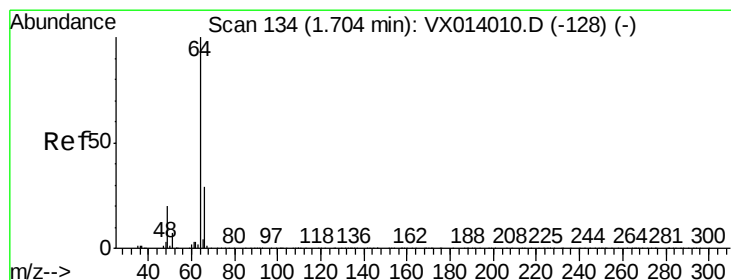
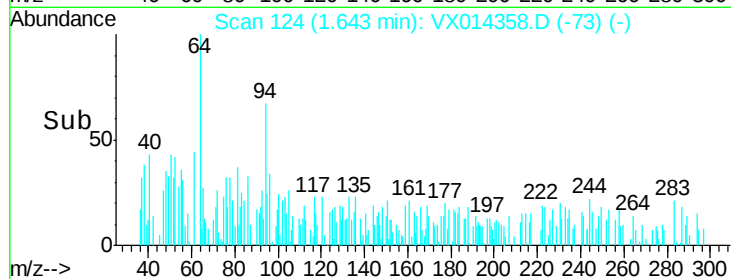
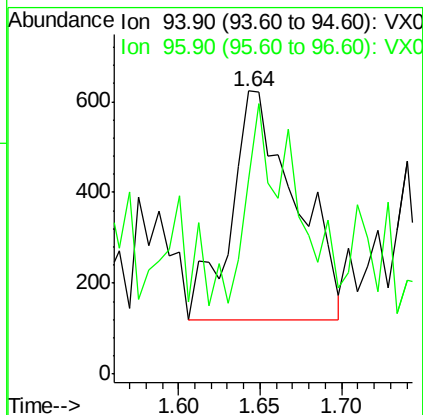
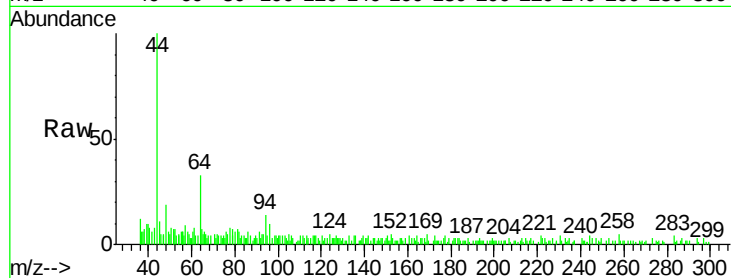
GW-4

Tot Ion: 94 Resp: 1383

Ion Ratio Lower Upper

94 100

96 53.7 75.2 112.8#



#6

Chloroethane

Concen: 0.263 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX014358.D

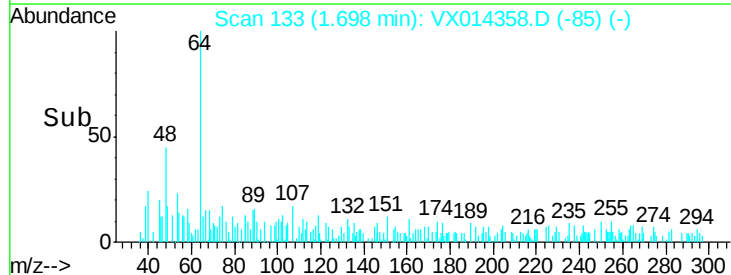
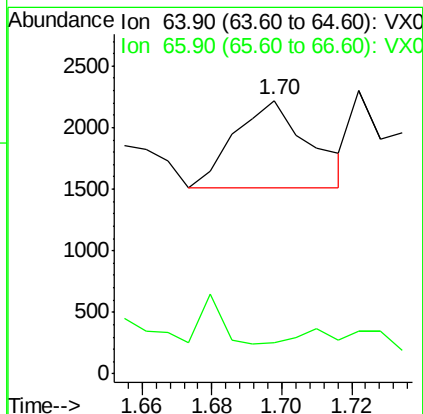
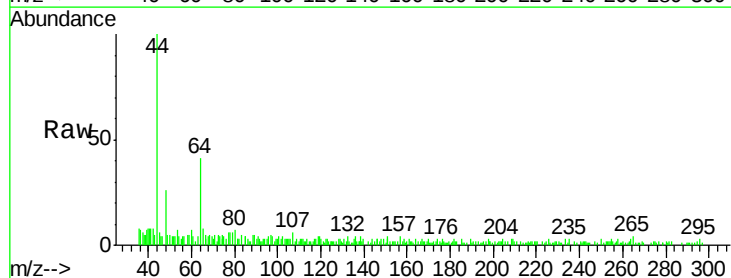
Acq: 30 Dec 2019 16:56

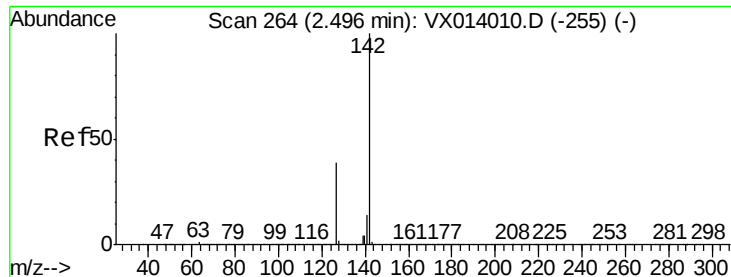
Tgt Ion: 64 Resp: 1056

Ion Ratio Lower Upper

64 100

66 0.1 23.4 35.2#

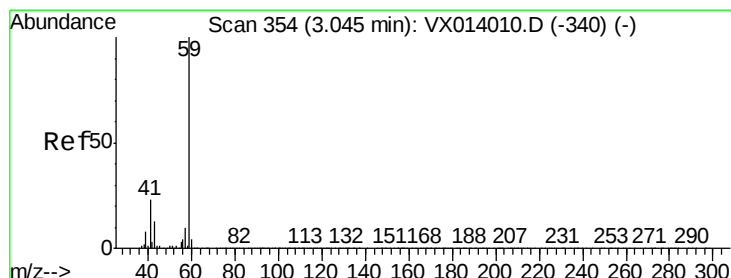
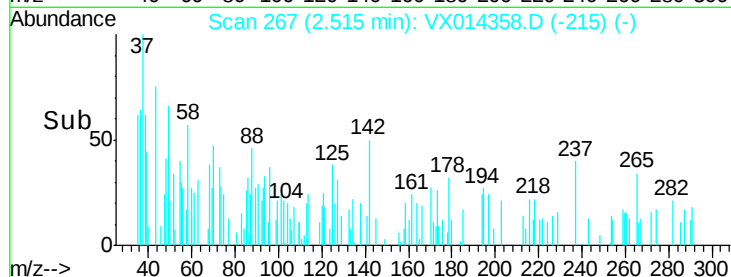
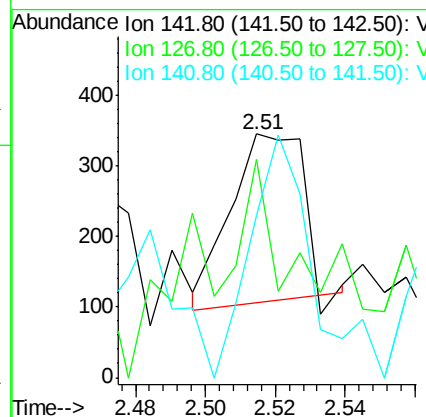
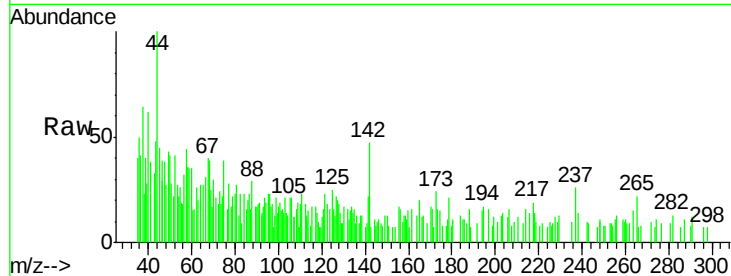




#10
Methvl Iodide
Concen: 2.671 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.02 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

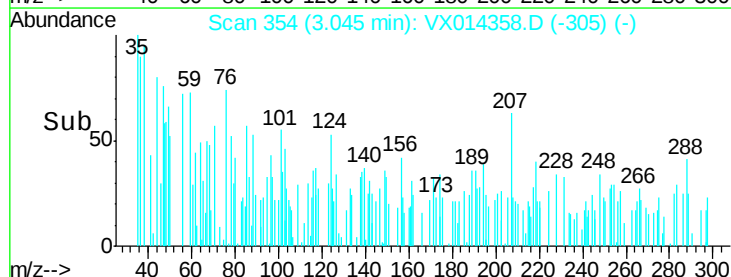
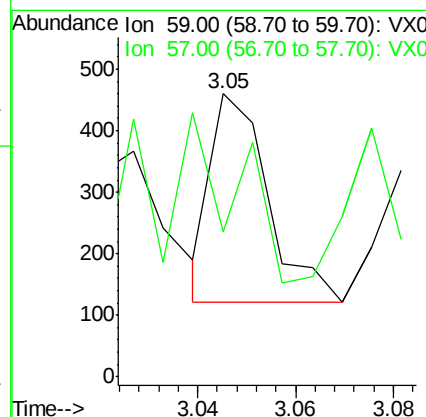
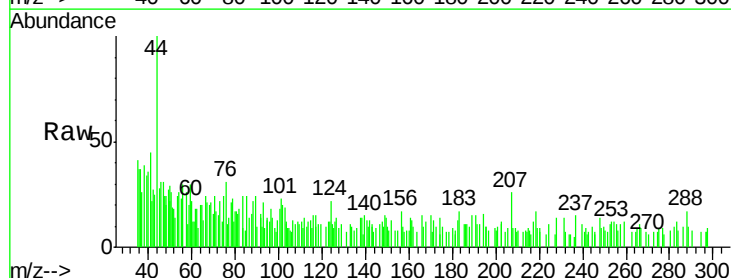
Instrument :
MSVOA_X
ClientSampled :
GW-4

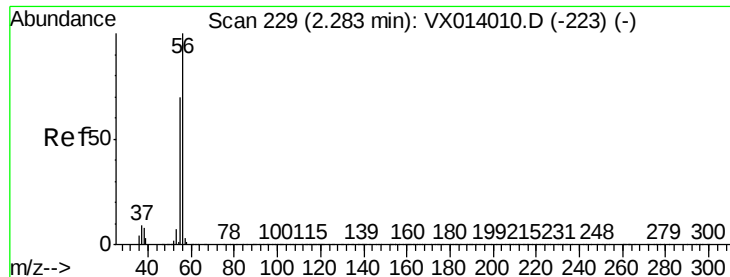
Tot Ion:142 Resp: 339
Ion Ratio Lower Upper
142 100
127 102.9 31.6 47.4#
141 123.6 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.218 ug/l
RT: 3.05 min Scan# 354
Delta R.T. -0.00 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.337 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampled :

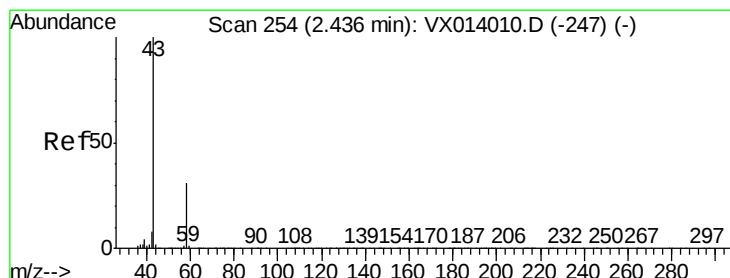
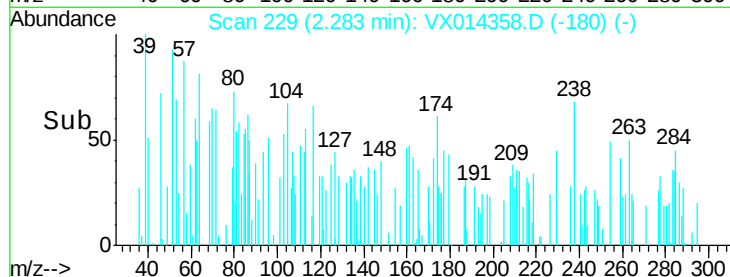
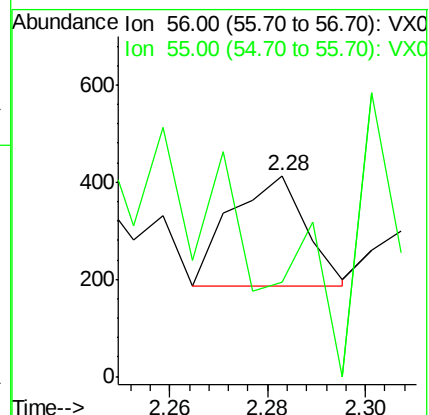
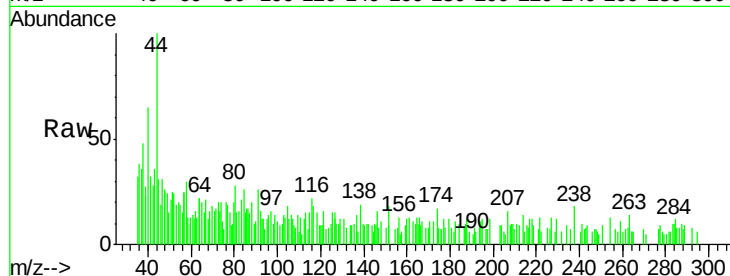
GW-4

Tot Ion: 56 Resp: 243

Ion Ratio Lower Upper

56 100

55 75.3 56.9 85.3



#16

Acetone

Concen: 1.857 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014358.D

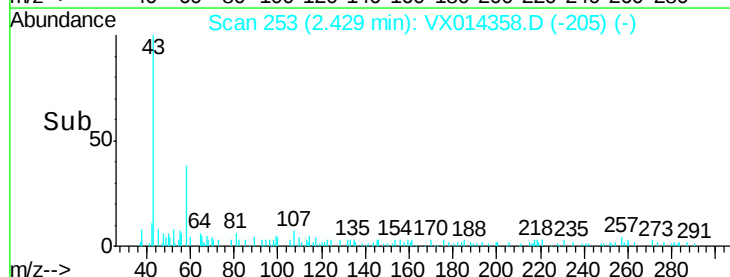
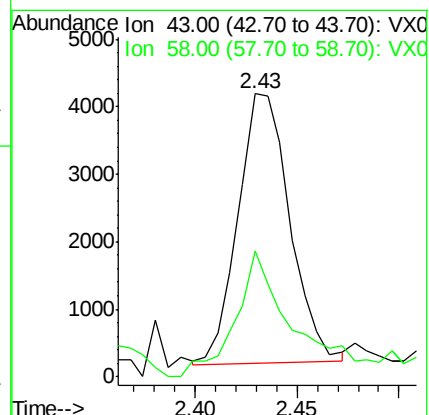
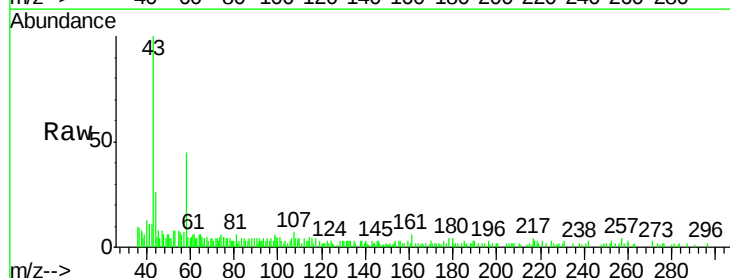
Acq: 30 Dec 2019 16:56

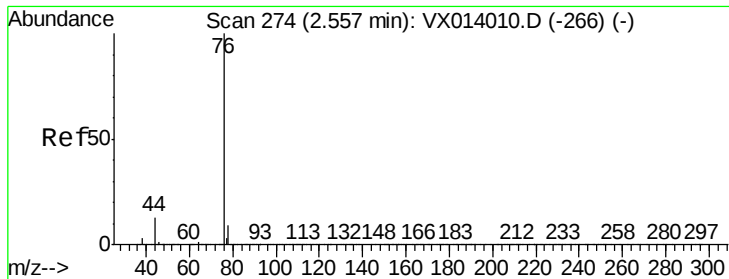
Tgt Ion: 43 Resp: 7026

Ion Ratio Lower Upper

43 100

58 41.3 24.9 37.3#





#17

Carbon Disulfide

Concen: 0.855 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampled :

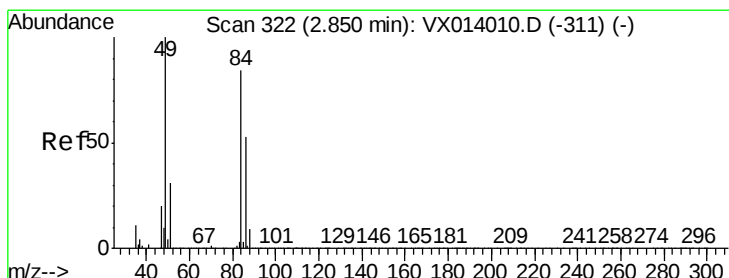
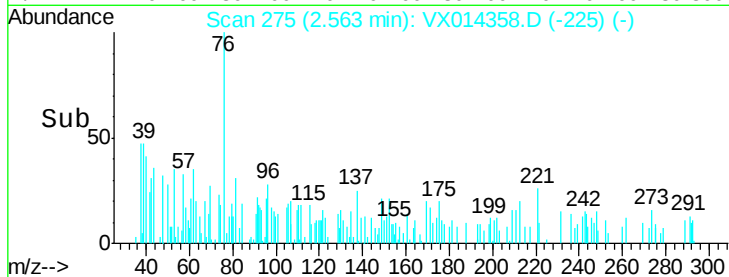
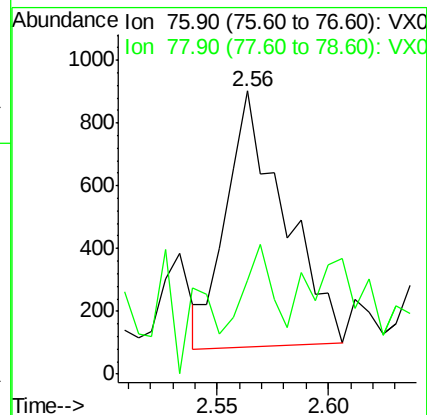
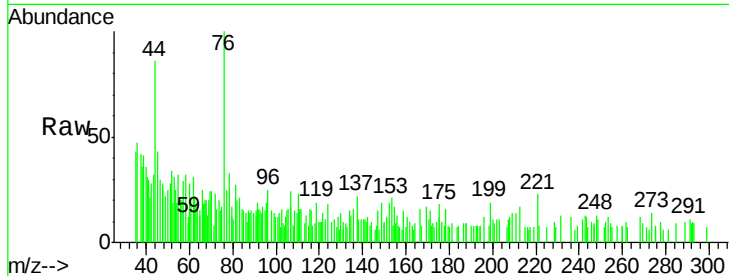
GW-4

Tot Ion: 76 Resp: 1462

Ion Ratio Lower Upper

76 100

78 3.1 7.2 10.8#



#20

Methylene Chloride

Concen: 0.203 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Tgt Ion: 84 Resp: 1207

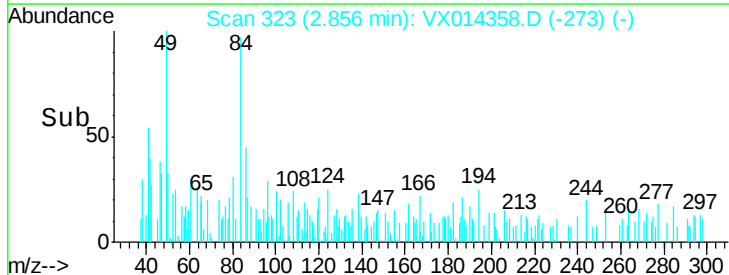
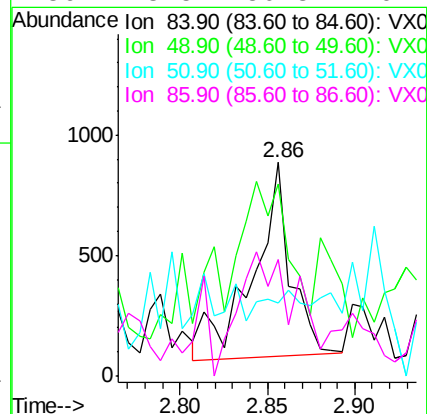
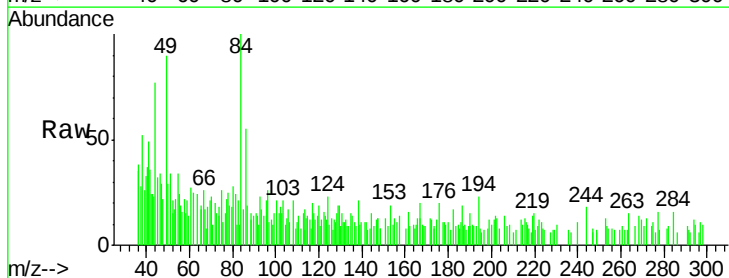
Ion Ratio Lower Upper

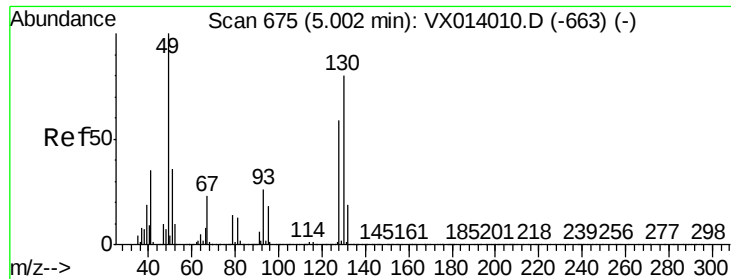
84 100

49 43.8 95.8 143.6#

51 5.3 29.8 44.8#

86 43.5 50.8 76.2#

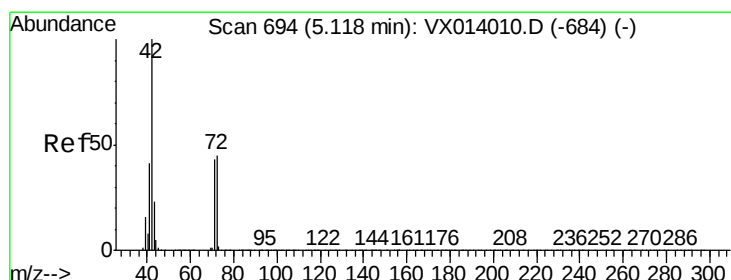
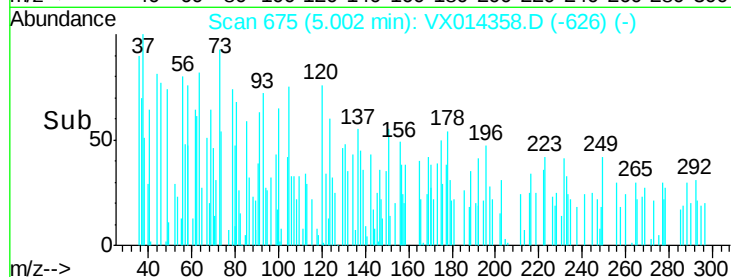
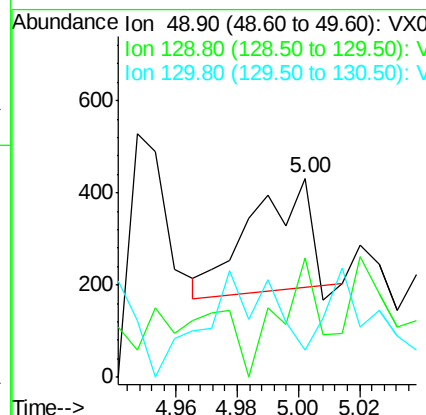
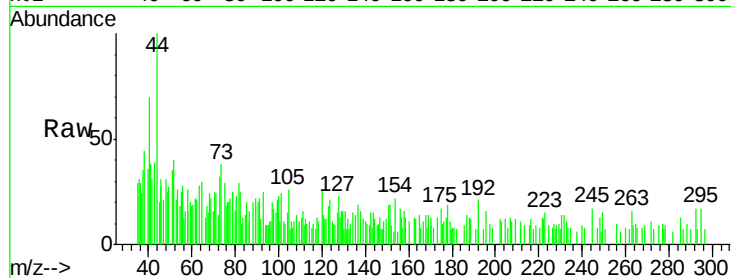




#28
Bromochloromethane
Concen: 0.537 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

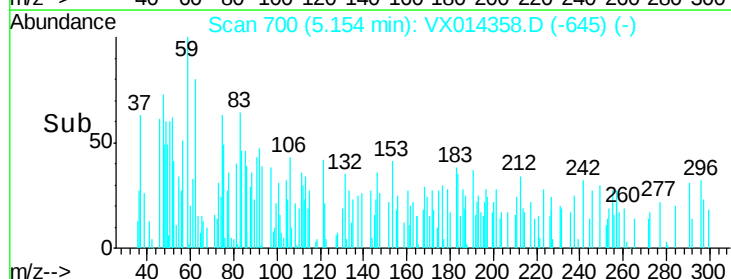
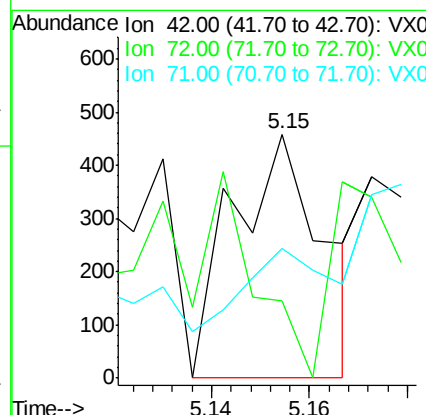
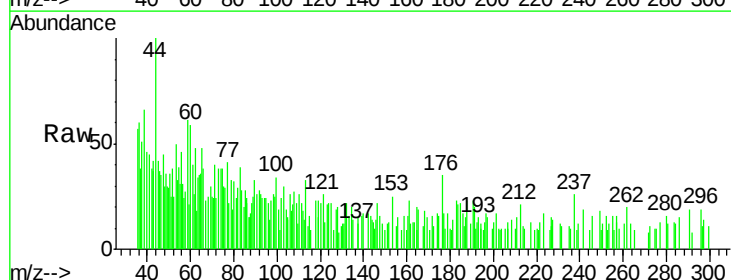
Instrument :
MSVOA_X
ClientSampled :
GW-4

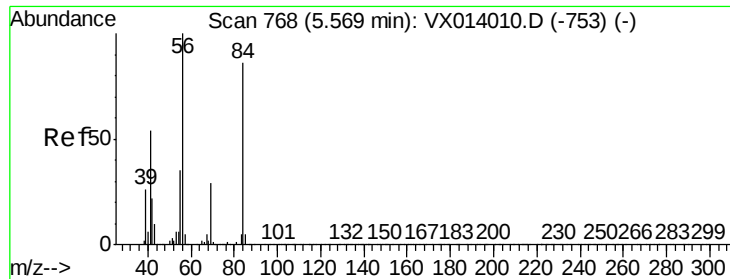
Tot Ion: 49 Resp: 318
Ion Ratio Lower Upper
49 100
129 70.8 0.0 5.0#
130 0.0 64.6 97.0#



#29
Tetrahydrofuran
Concen: 0.224 ug/l
RT: 5.15 min Scan# 700
Delta R.T. 0.04 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

Tgt Ion: 42 Resp: 585
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.8#
71 0.0 33.6 50.4#

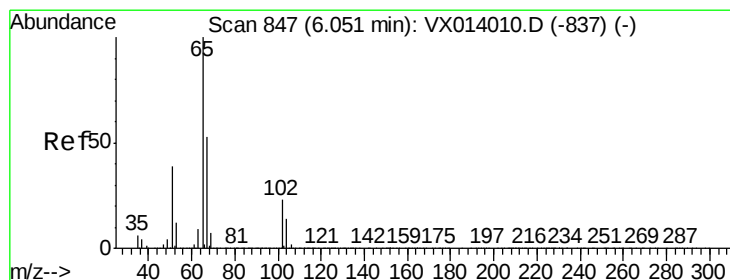
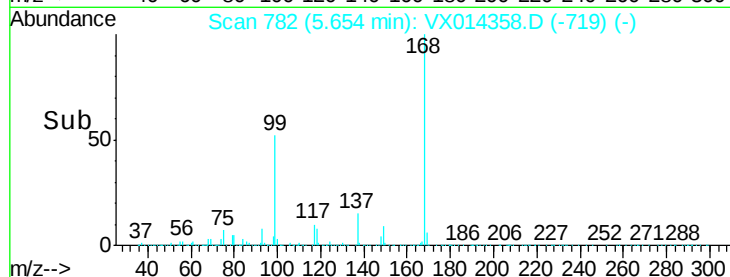
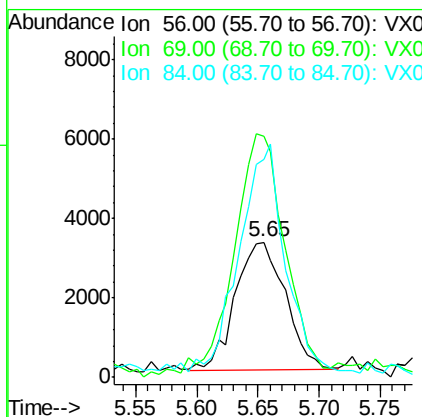
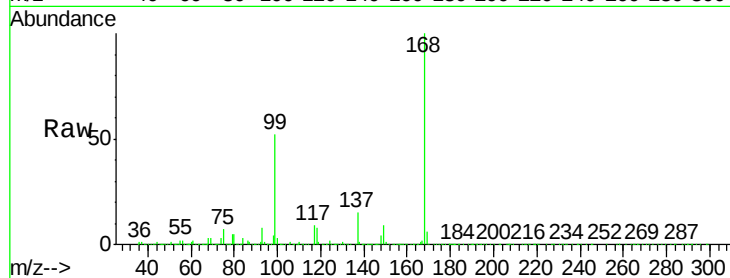




#31
Cyclohexane
Concen: 1.055 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

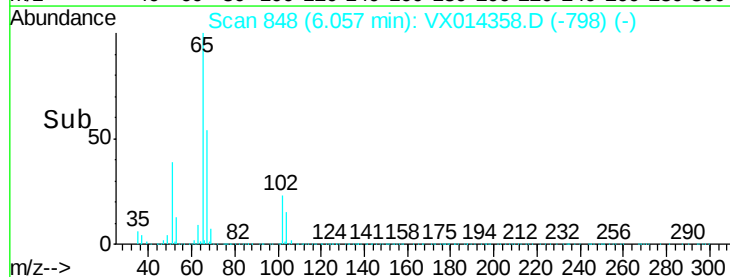
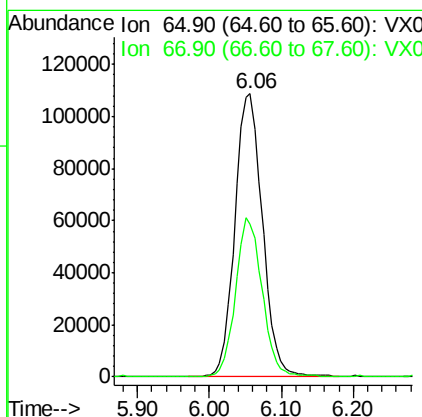
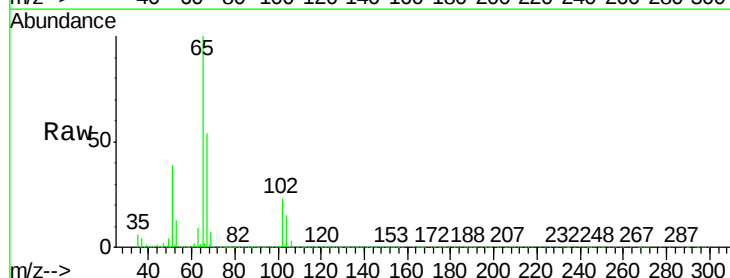
Instrument :
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GW-4

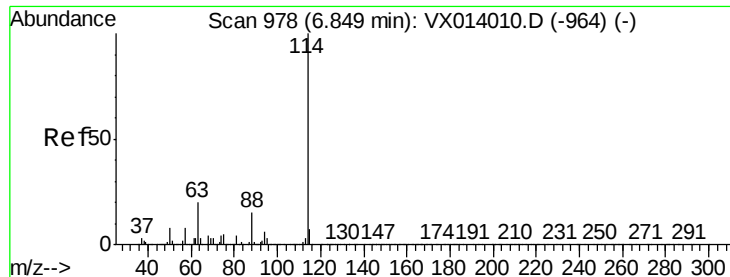
Tot Ion: 56 Resp: 9185
Ion Ratio Lower Upper
56 100
69 178.6 23.2 34.8#
84 167.3 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 49.498 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

Tgt Ion: 65 Resp: 288470
Ion Ratio Lower Upper
65 100
67 53.8 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: VX014358.D

Acq: 30 Dec 2019 16:56

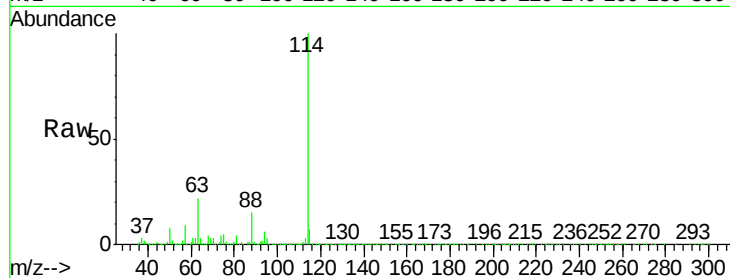
Instrument :

MSVOA_X

ClientSampleId :

GW-4

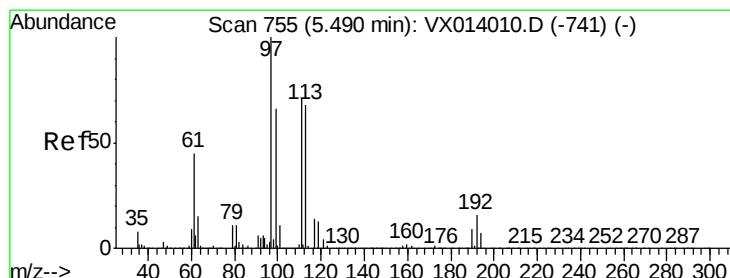
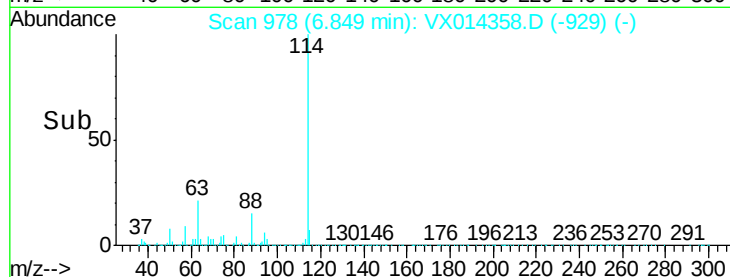
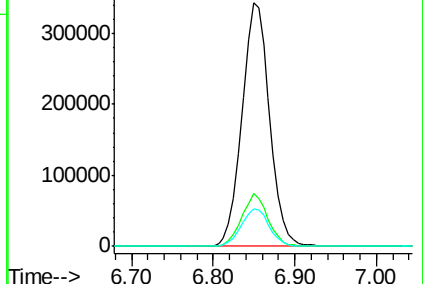
Tot Ion:	114	Resp:	801907
Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.8
88	15.4	0.0	30.4



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: 49.813 ug/l

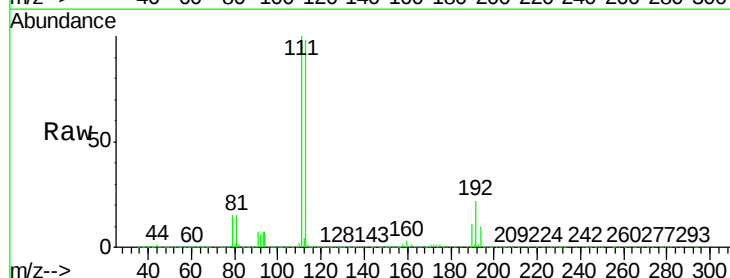
RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

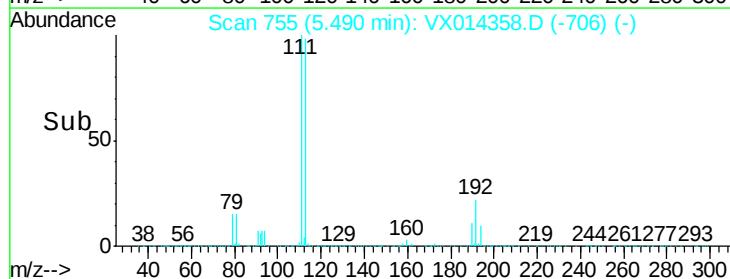
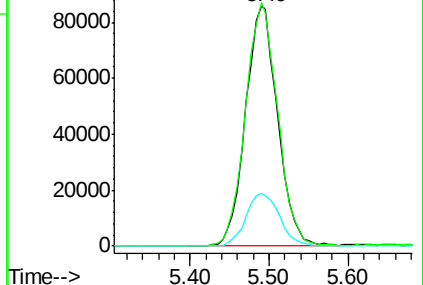
Tgt Ion:	113	Resp:	242824
Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.0	123.0
192	23.1	19.3	28.9

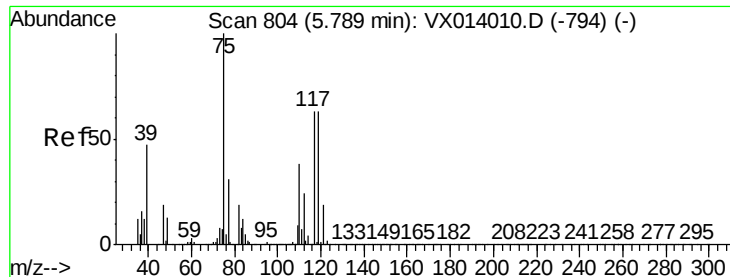


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.736 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampleId :

GW-4

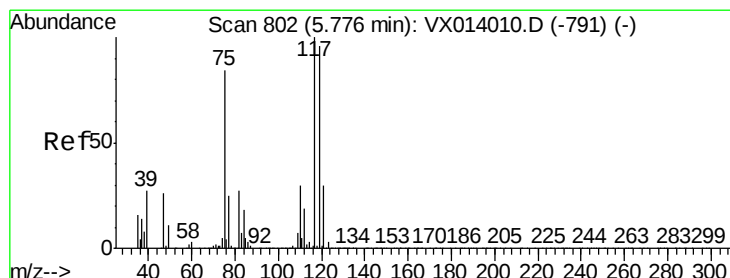
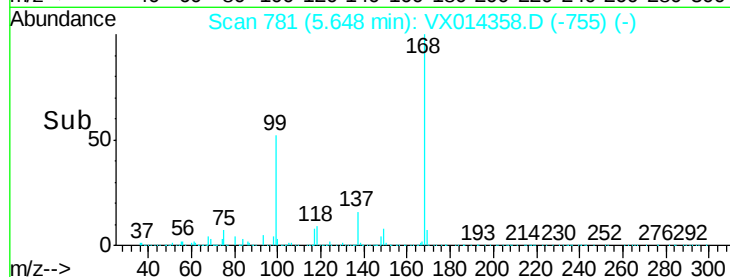
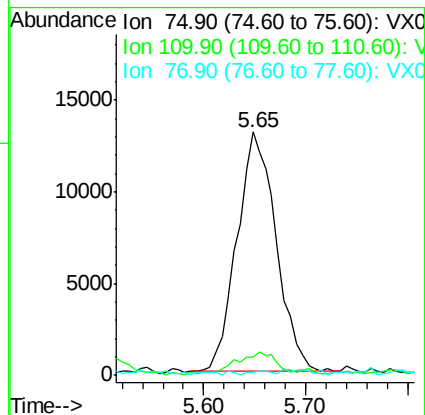
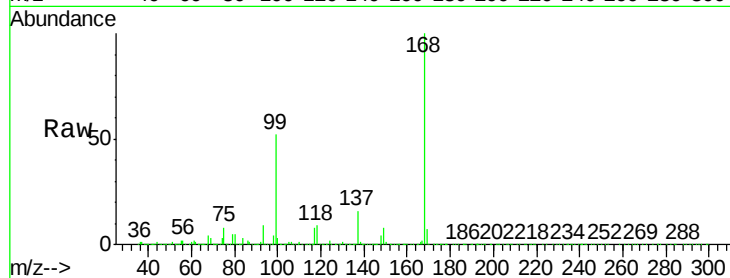
Tot Ion: 75 Resp: 34844

Ion Ratio Lower Upper

75 100

110 10.3 18.3 54.9#

77 1.1 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.913 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

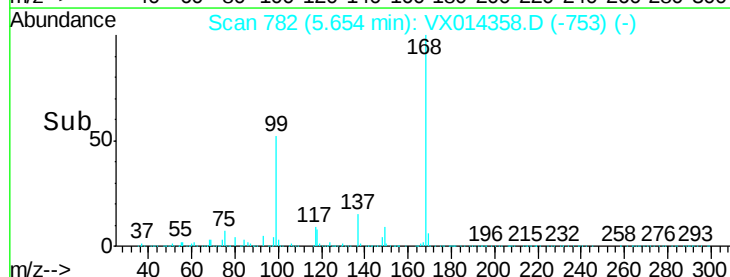
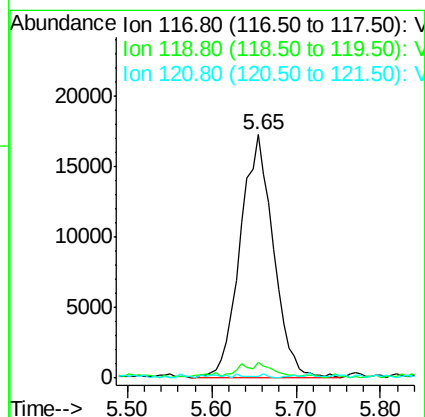
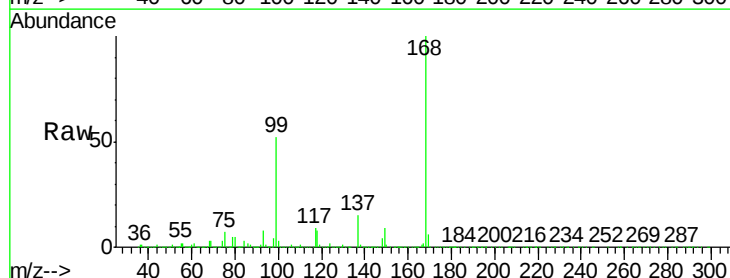
Tgt Ion: 117 Resp: 46335

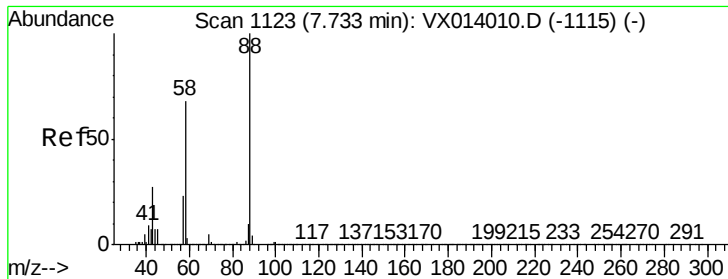
Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.4#

121 0.0 23.6 35.4#





#49

1,4-Dioxane

Concen: 4.299 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

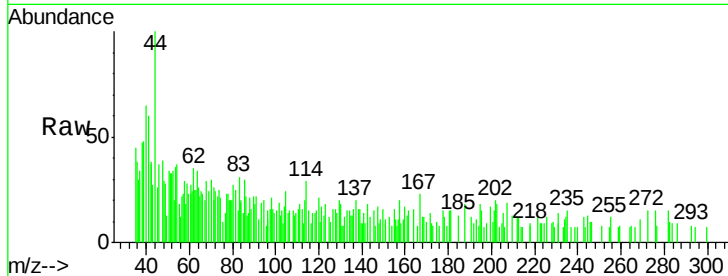
MSVOA_X

ClientSampleId :

GW-4

Tot Ion: 88 Resp: 576

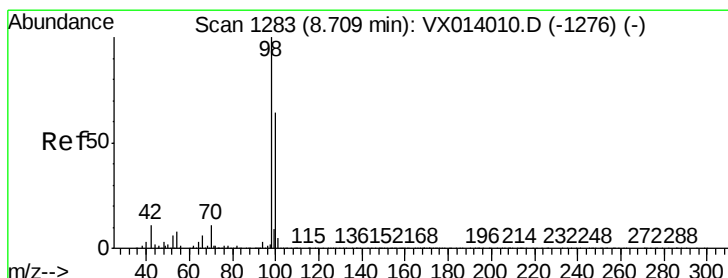
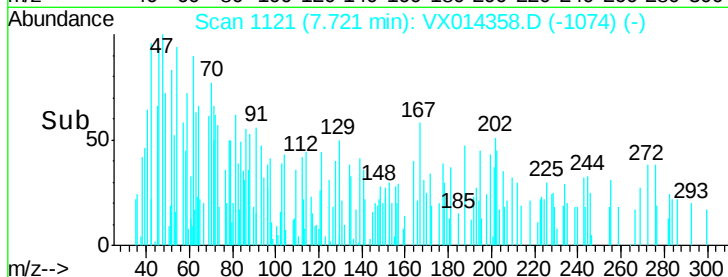
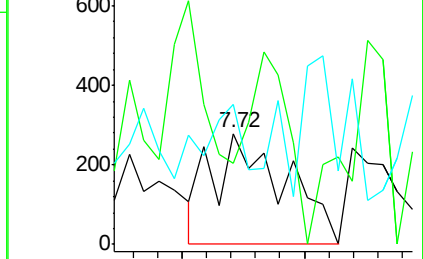
Ion	Ratio	Lower	Upper
88	100		
43	93.6	26.5	39.7#
58	57.3	56.8	85.2



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: 50.470 ug/l

RT: 8.71 min Scan# 1283

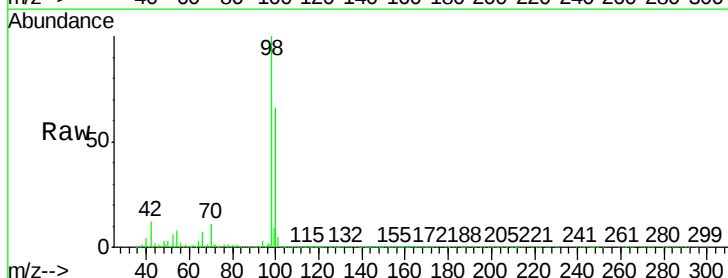
Delta R.T. -0.00 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

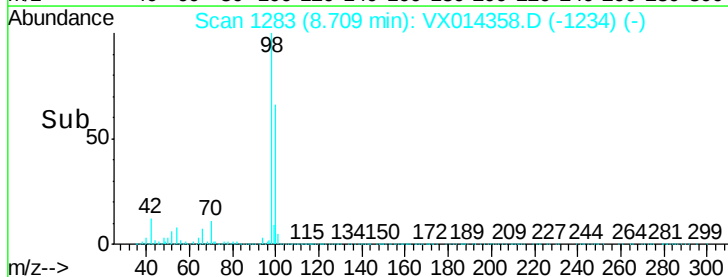
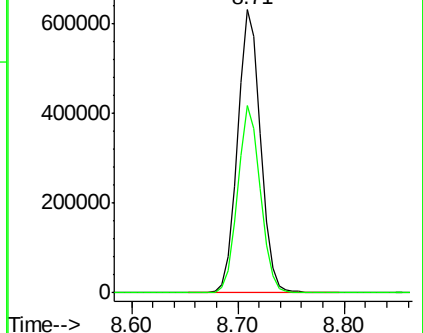
Tgt Ion: 98 Resp: 957850

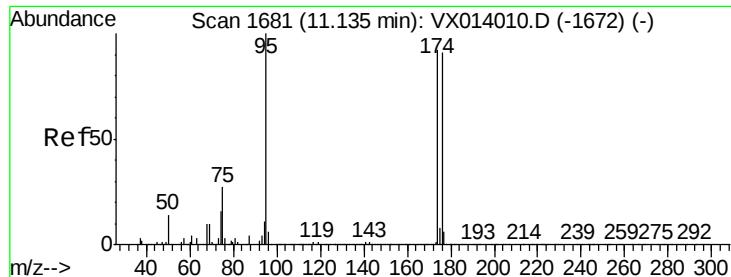
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.9	79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.064 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampleId :

GW-4

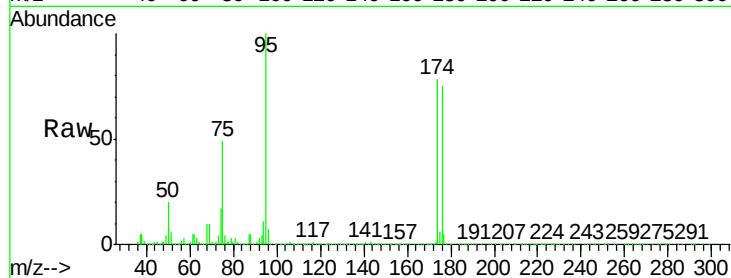
Tot Ion: 95 Resp: 319569

Ion Ratio Lower Upper

95 100

174 87.6 0.0 175.8

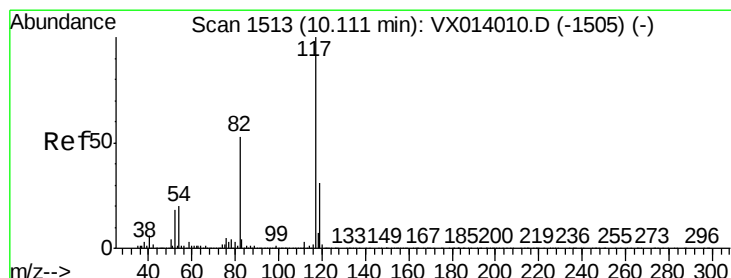
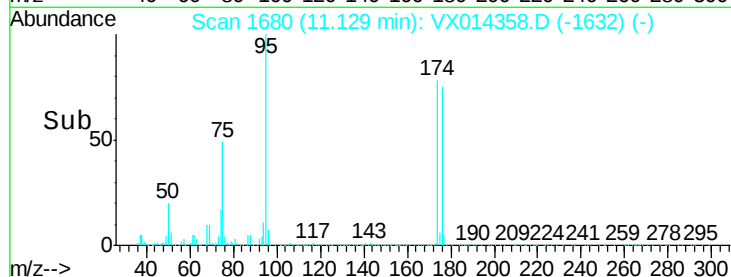
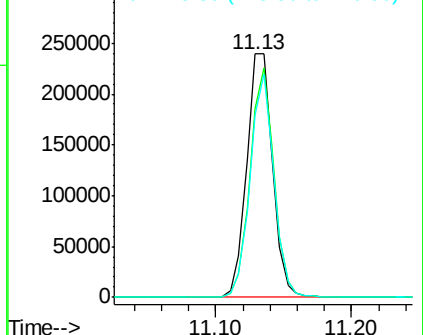
176 84.6 0.0 173.0



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: VX014358.D

Acq: 30 Dec 2019 16:56

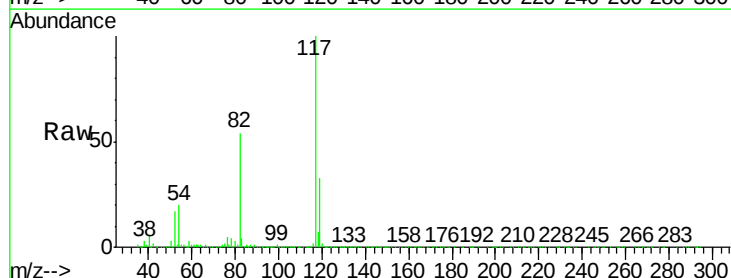
Tgt Ion: 117 Resp: 722820

Ion Ratio Lower Upper

117 100

82 53.6 42.2 63.4

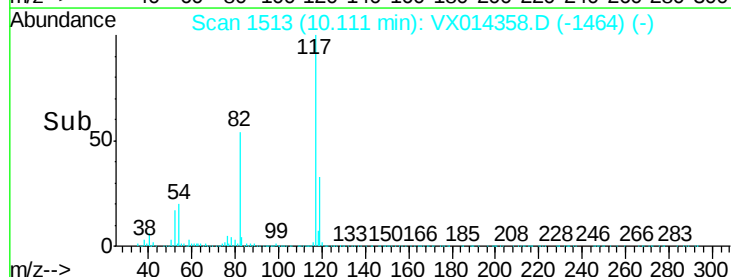
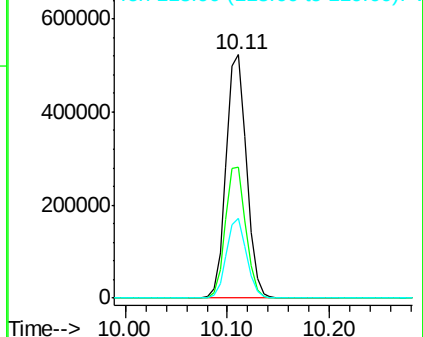
119 33.0 25.1 37.7

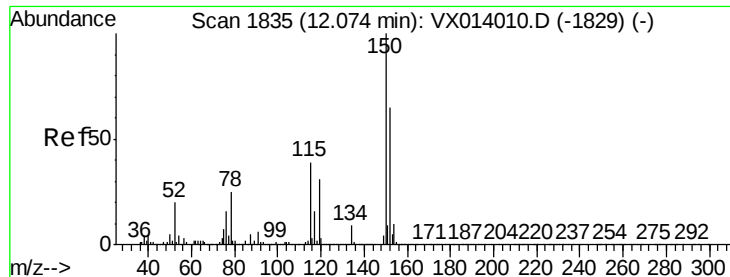


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



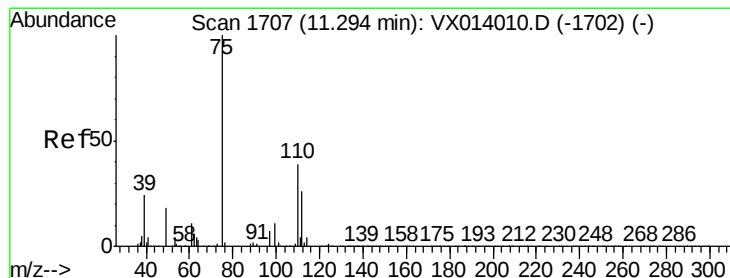
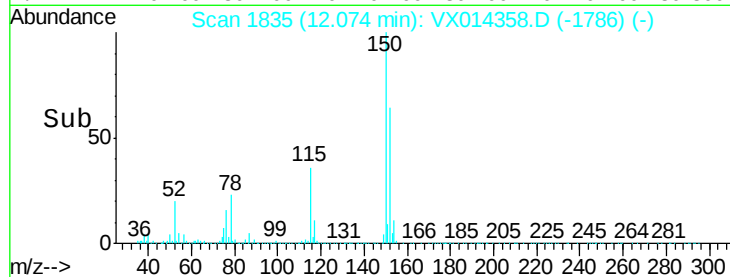
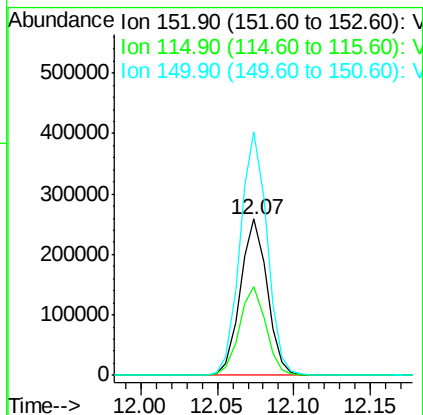
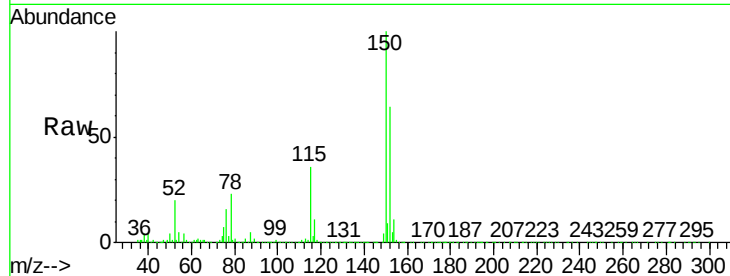


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

Instrument :
MSVOA_X
ClientSampleId :
GW-4

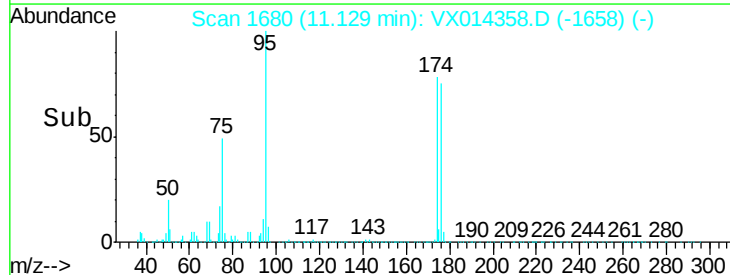
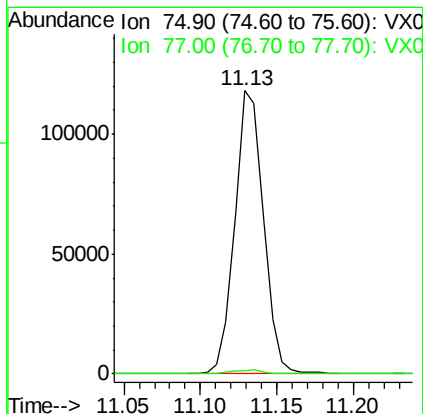
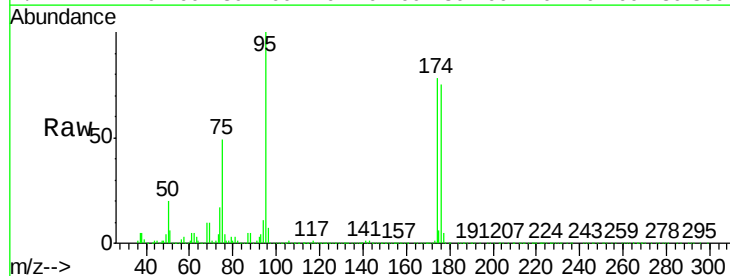
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.1	38.3	114.9
150	156.9	0.0	345.4

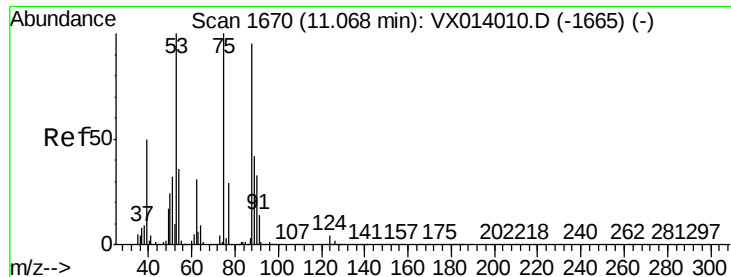


#76

1,2,3-Trichloropropane
Concen: 22.567 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014358.D
Acq: 30 Dec 2019 16:56

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





#81

trans-1,4-Dichloro-2-butene

Concen: 63.695 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014358.D

Acq: 30 Dec 2019 16:56

Instrument :

MSVOA_X

ClientSampleId :

GW-4

Tot Ion: 75 Resp: 153559

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.2 34.6 51.8#

