

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014313.D
 Acq On : 27 Dec 2019 16:54
 Operator : JC/SP
 Sample : K6434-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-5

Quant Time: Dec 30 05:36:47 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	506313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	785453	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	691553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	300181	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	285796	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
35) Dibromofluoromethane	5.49	113	236355	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	8.71	98	932284	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.14	95	303599	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	

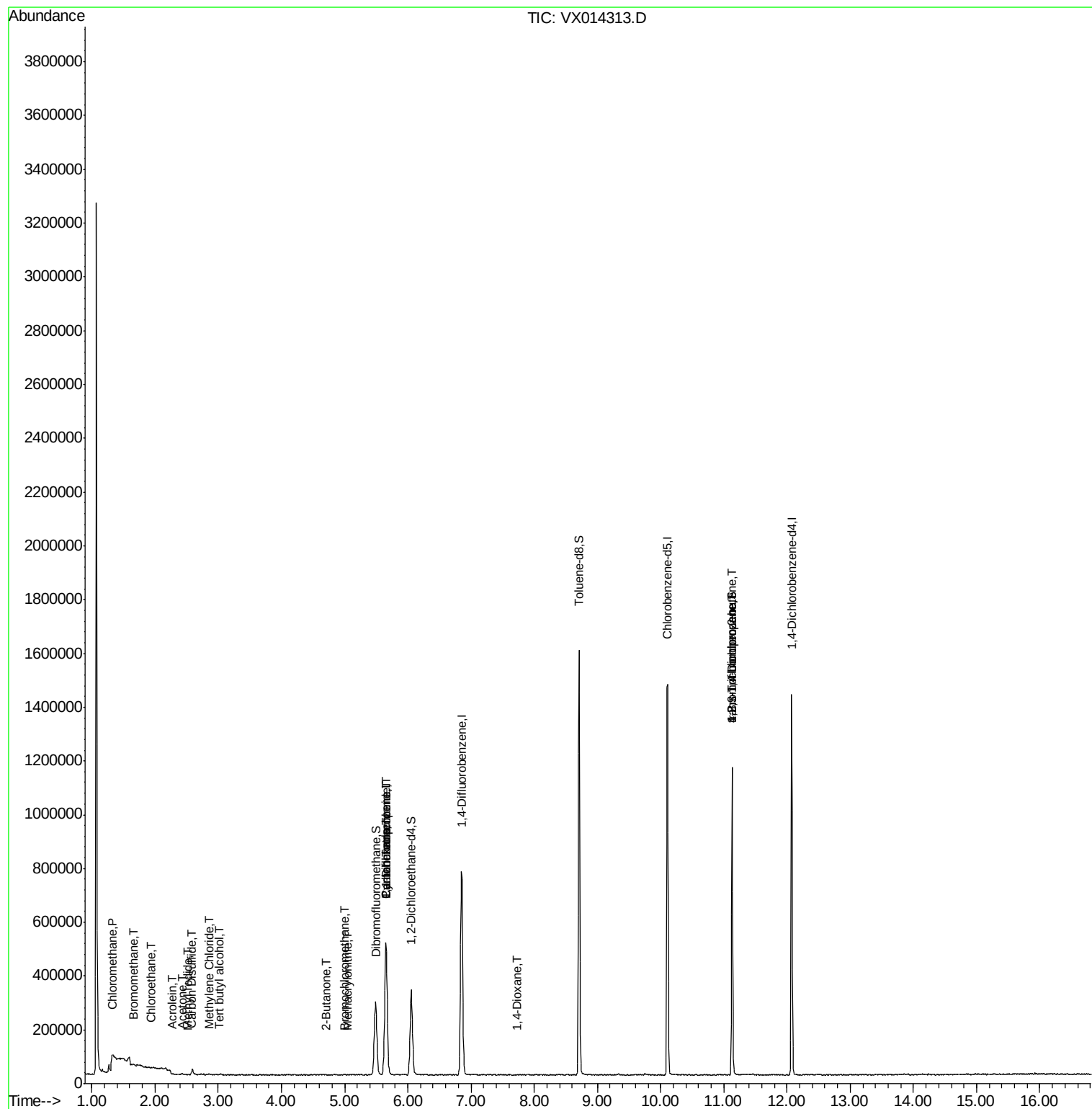
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	5330	0.877	ug/l #	82
5) Bromomethane	1.66	94	1128	0.248	ug/l	94
6) Chloroethane	1.93	64	808	0.204	ug/l #	45
10) Methyl Iodide	2.51	142	523	2.699	ug/l #	22
11) Tert butyl alcohol	3.03	59	1426	1.150	ug/l #	31
13) Acrolein	2.28	56	292	0.411	ug/l #	14
16) Acetone	2.44	43	5286	1.419	ug/l	100
17) Carbon Disulfide	2.57	76	2157	0.907	ug/l #	21
20) Methylene Chloride	2.85	84	1248	0.213	ug/l #	90
25) 2-Butanone	4.70	43	1268	0.276	ug/l #	73
28) Bromochloromethane	5.00	49	598	0.614	ug/l #	11
31) Cyclohexane	5.66	56	9067	1.057	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	33914	4.706	ug/l #	51
38) Carbon Tetrachloride	5.66	117	44816	6.826	ug/l #	15
41) Methacrylonitrile	5.04	41	1269	0.287	ug/l #	57
49) 1,4-Dioxane	7.73	88	263	2.004	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	147552	22.642	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	147552	63.906	ug/l #	12

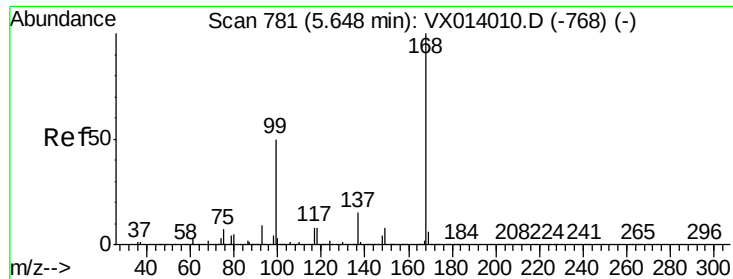
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

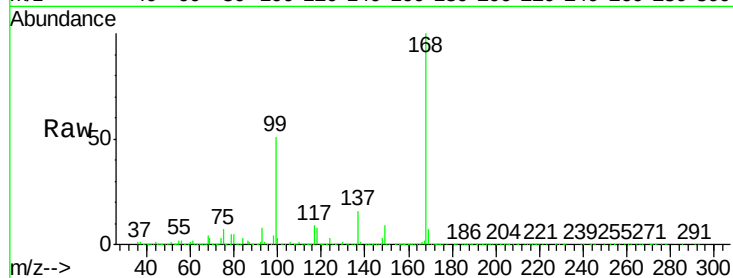
GW-5

Tgt Ion:168 Resp: 506313

Ion Ratio Lower Upper

168 100

99 51.0 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

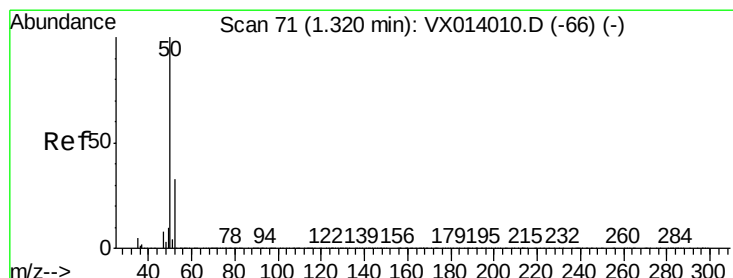
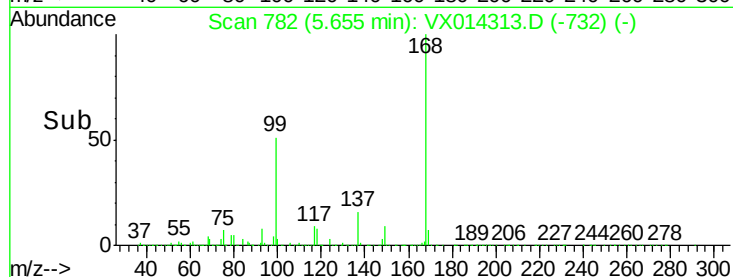
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.877 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014313.D

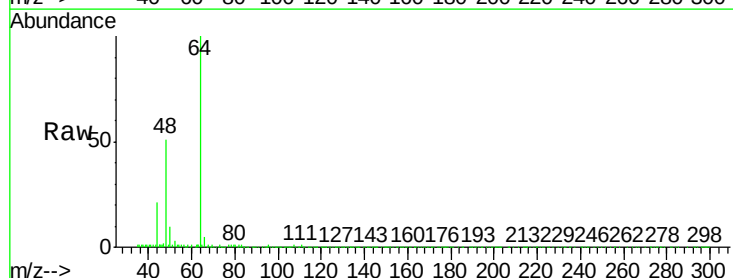
Acq: 27 Dec 2019 16:54

Tgt Ion: 50 Resp: 5330

Ion Ratio Lower Upper

50 100

52 22.8 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

4000

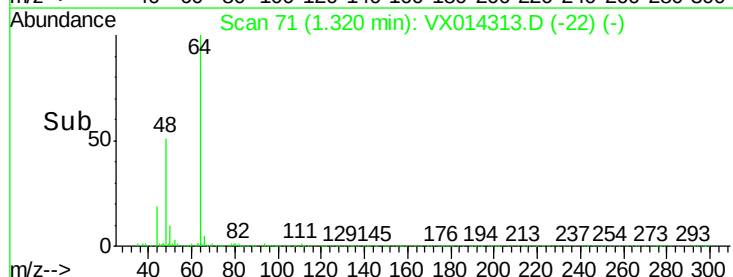
3000

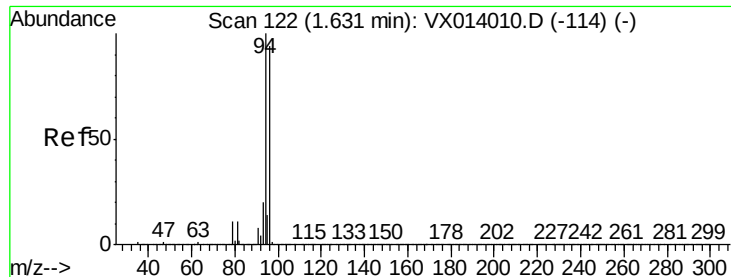
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.248 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

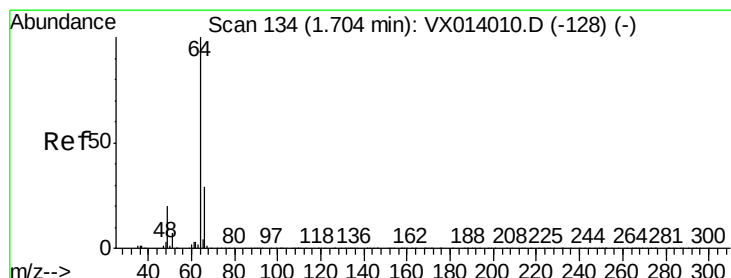
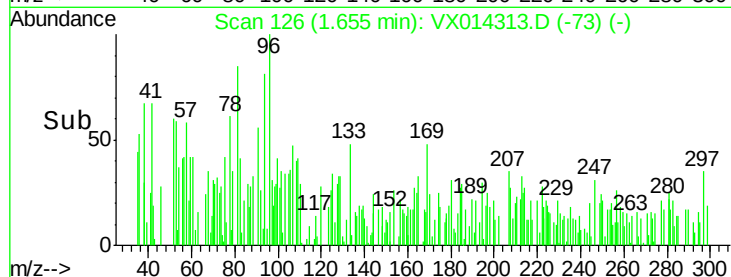
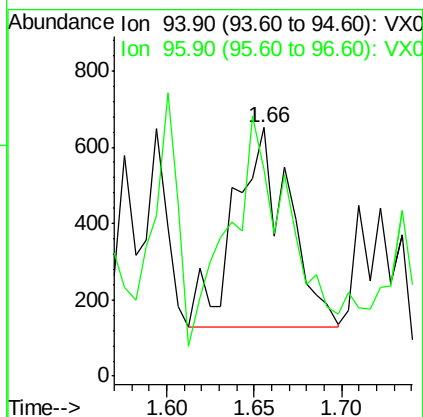
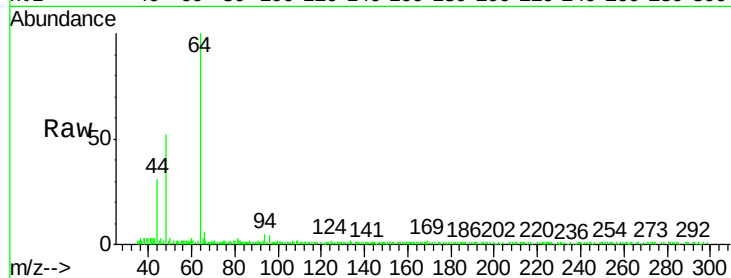
GW-5

Tgt Ion: 94 Resp: 1128

Ion Ratio Lower Upper

94 100

96 88.3 75.2 112.8



#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.93 min Scan# 171

Delta R.T. 0.23 min

Lab File: VX014313.D

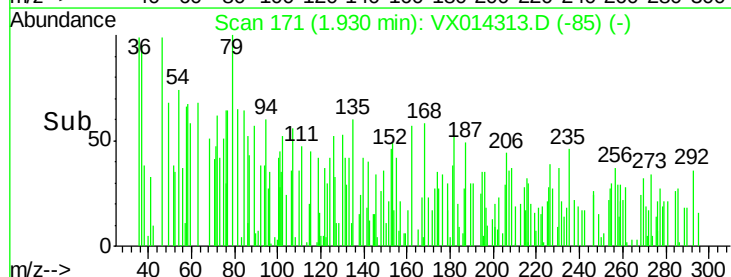
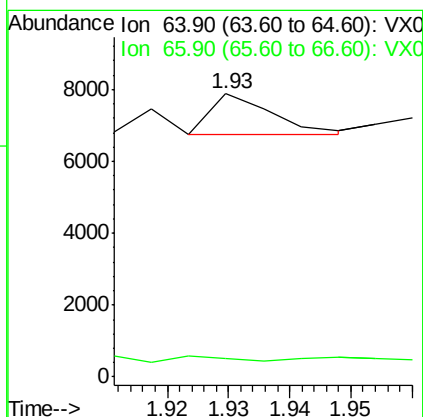
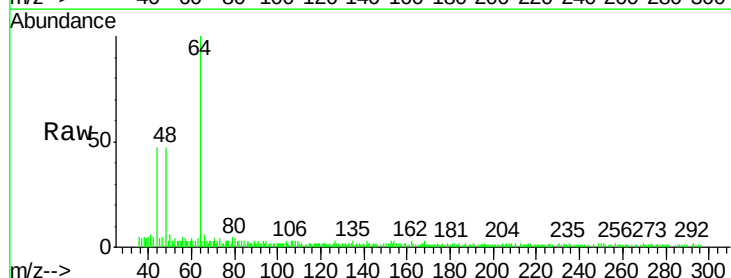
Acq: 27 Dec 2019 16:54

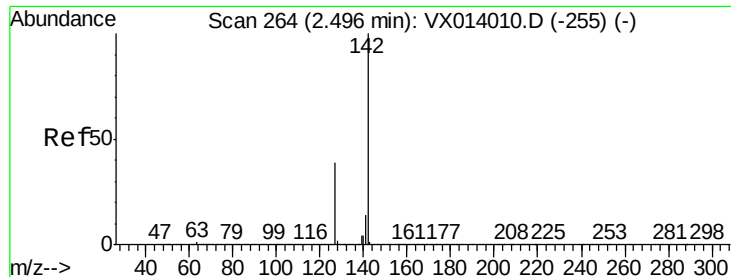
Tgt Ion: 64 Resp: 808

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#





#10

Methyl Iodide

Concen: 2.699 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

GW-5

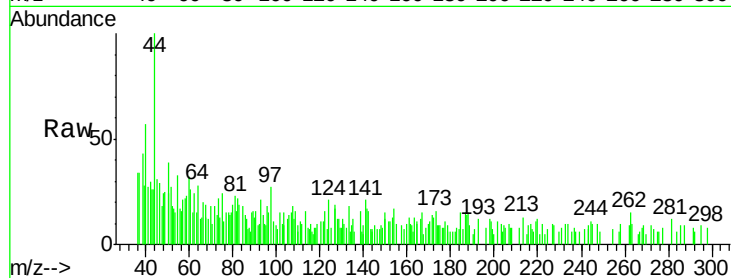
Tgt Ion:142 Resp: 523

Ion Ratio Lower Upper

142 100

127 99.0 31.6 47.4#

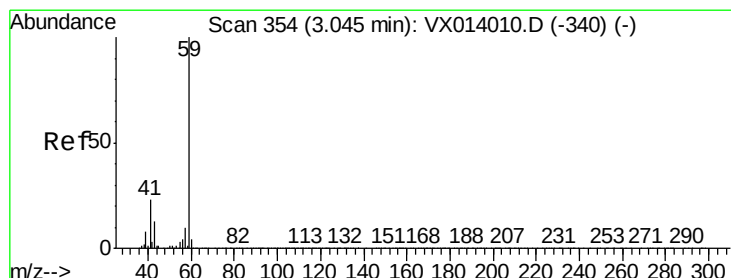
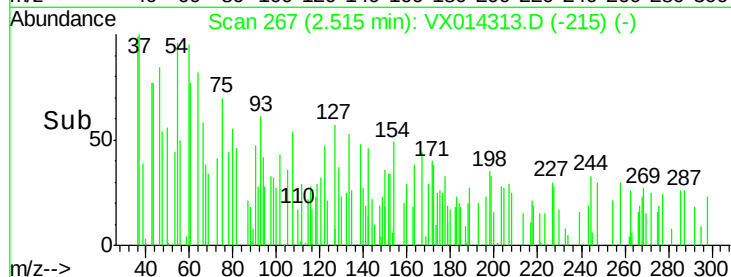
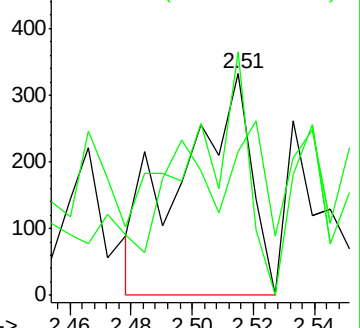
141 25.2 11.6 17.4#



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: 1.150 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.02 min

Lab File: VX014313.D

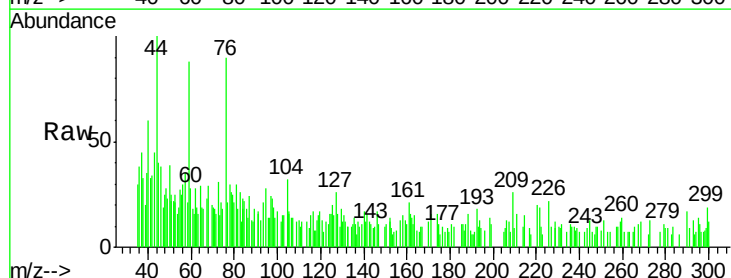
Acq: 27 Dec 2019 16:54

Tgt Ion: 59 Resp: 1426

Ion Ratio Lower Upper

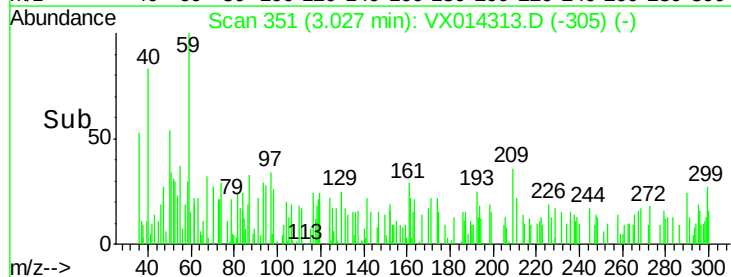
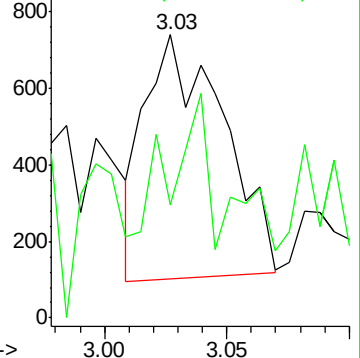
59 100

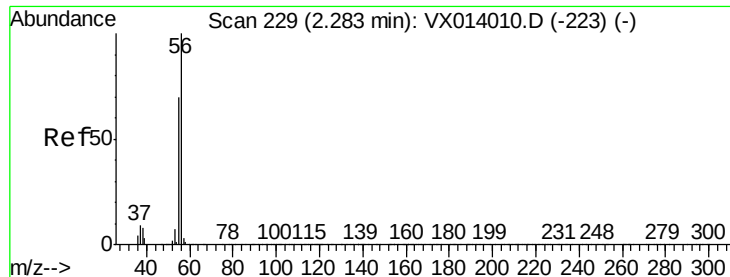
57 36.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

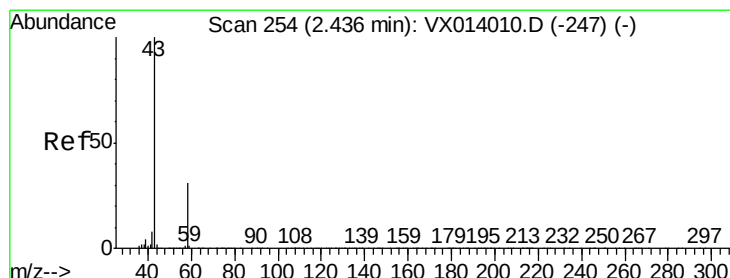
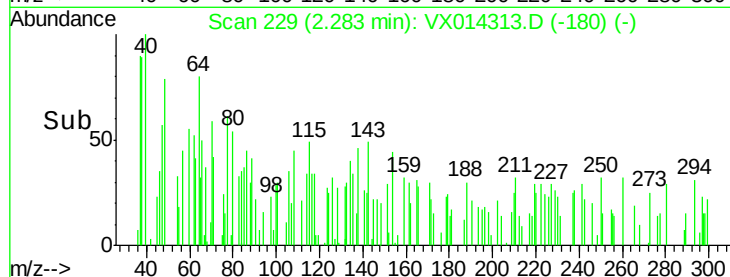
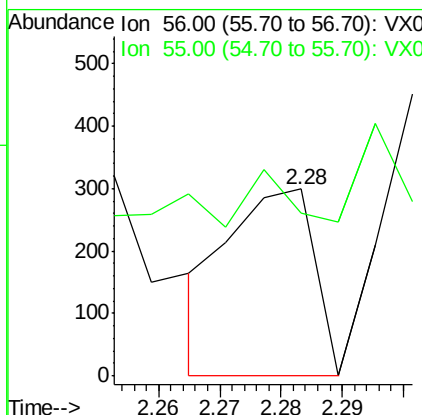
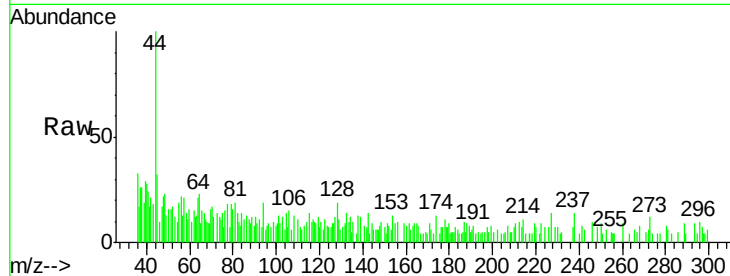




#13
Acrolein
Concen: 0.411 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

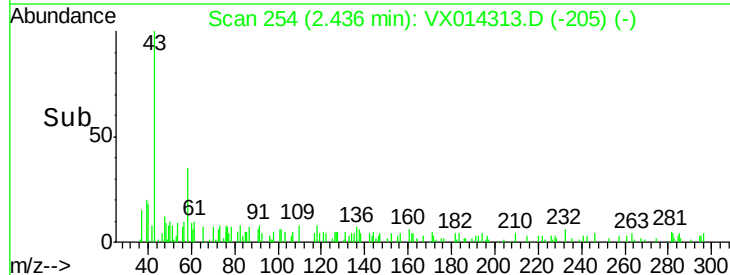
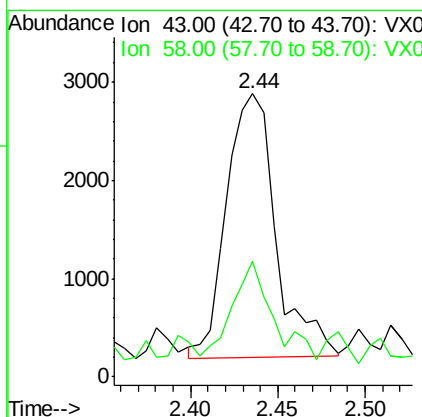
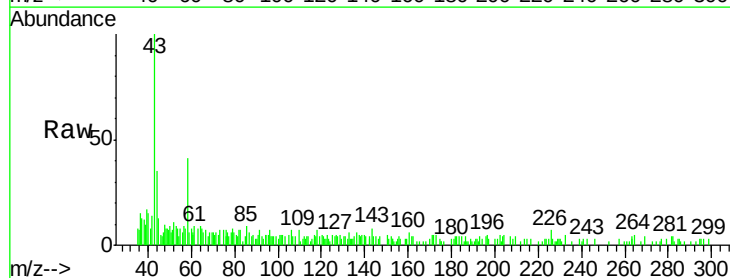
Instrument :
MSVOA_X
ClientSampleId :
GW-5

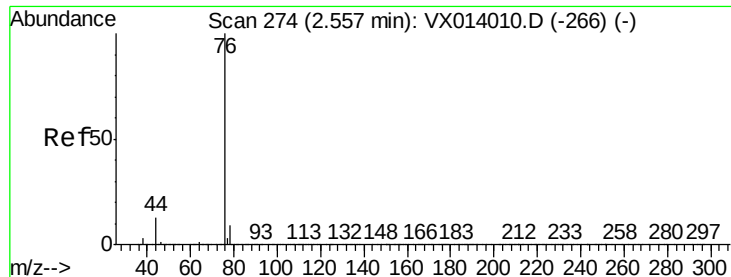
Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 1.419 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

Tgt Ion: 43 Resp: 5286
Ion Ratio Lower Upper
43 100
58 31.1 24.9 37.3





#17

Carbon Disulfide

Concen: 0.907 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

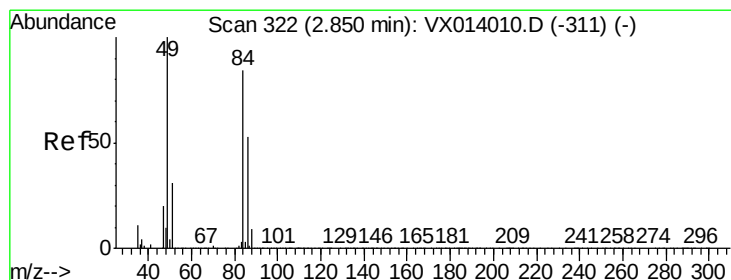
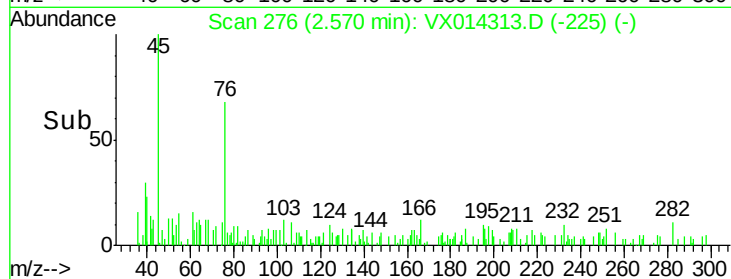
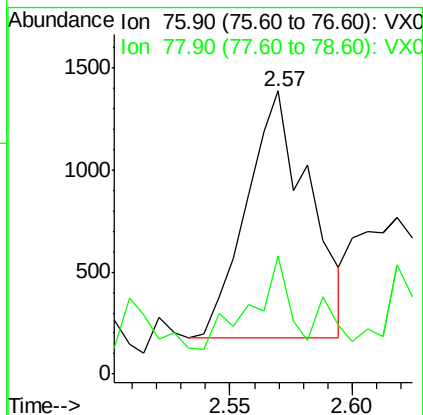
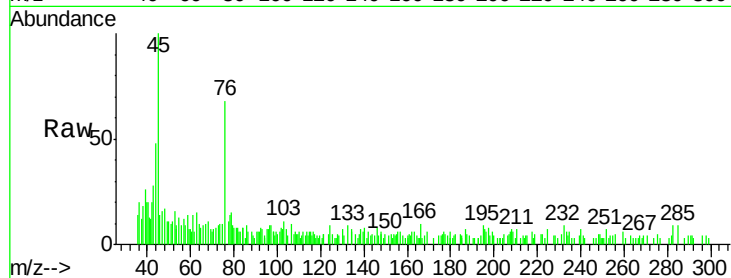
GW-5

Tgt Ion: 76 Resp: 2157

Ion Ratio Lower Upper

76 100

78 37.6 7.2 10.8#



#20

Methylene Chloride

Concen: 0.213 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Tgt Ion: 84 Resp: 1248

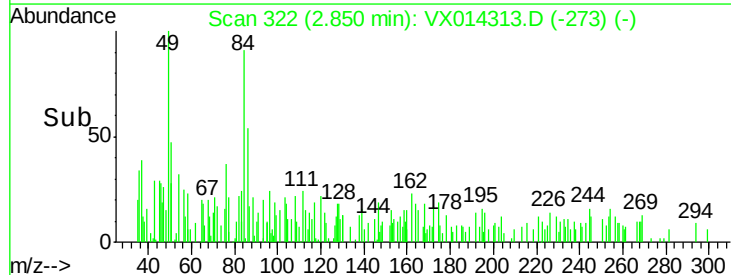
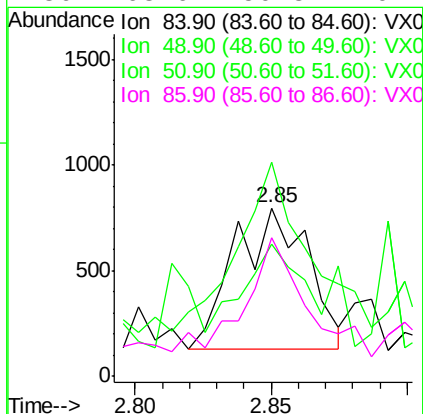
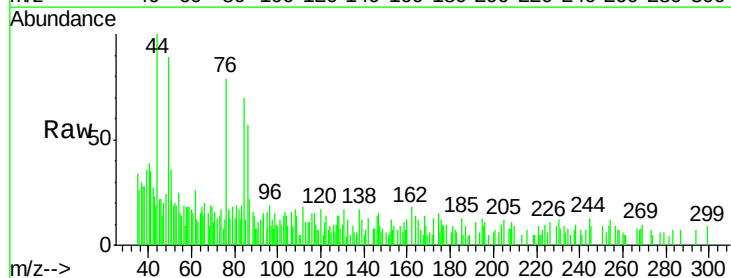
Ion Ratio Lower Upper

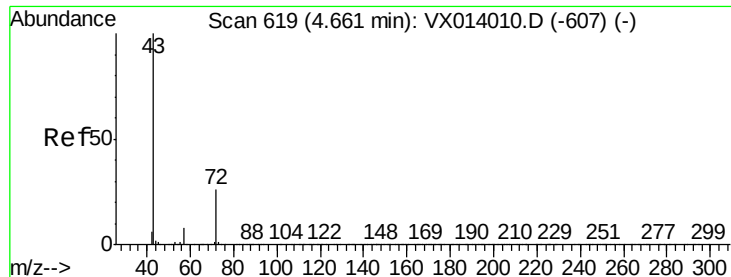
84 100

49 106.8 95.8 143.6

51 29.8 29.8 44.8#

86 68.6 50.8 76.2

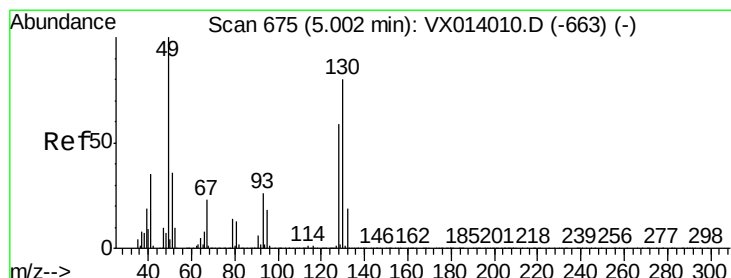
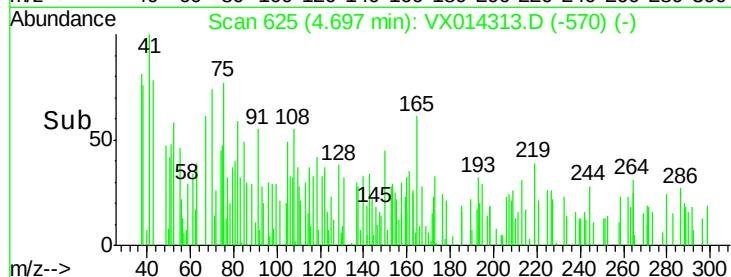
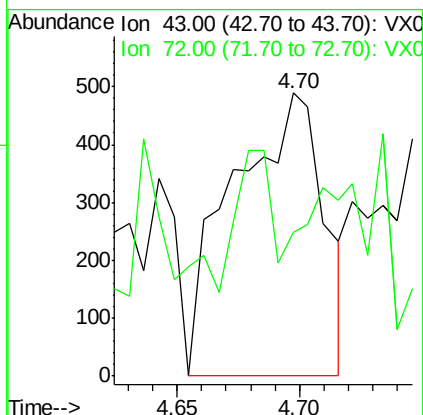
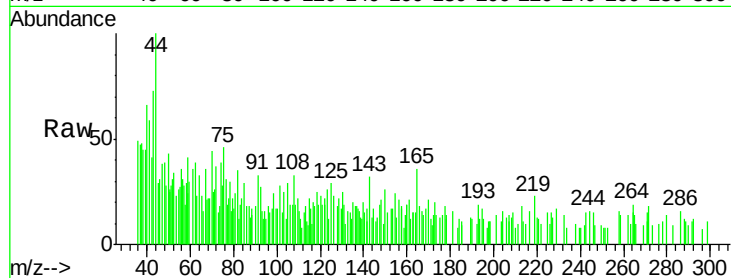




#25
2-Butanone
Concen: 0.276 ug/l
RT: 4.70 min Scan# 625
Delta R.T. 0.04 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

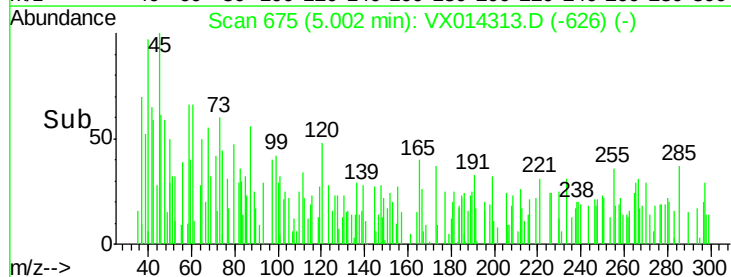
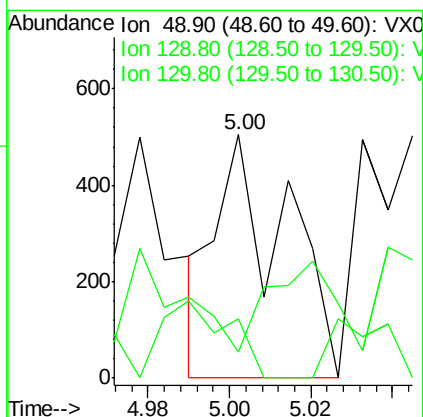
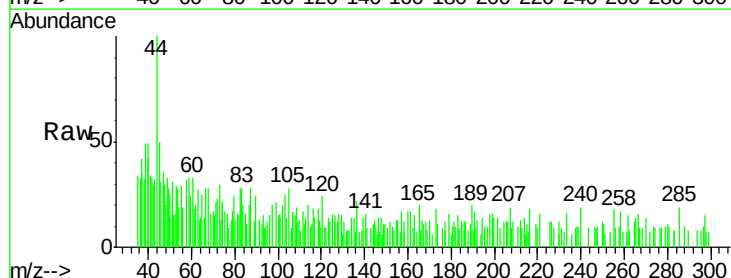
Instrument :
MSVOA_X
ClientSampled :
GW-5

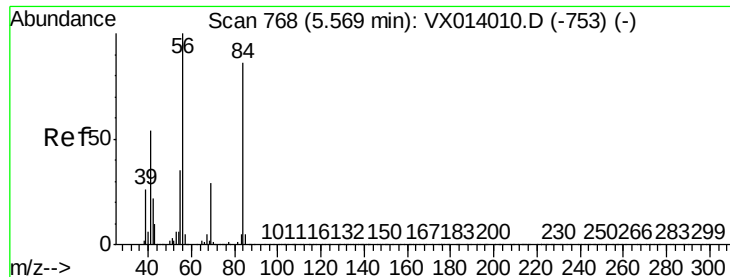
Tgt Ion: 43 Resp: 1268
Ion Ratio Lower Upper
43 100
72 12.3 21.0 31.4#



#28
Bromochloromethane
Concen: 0.614 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

Tgt Ion: 49 Resp: 598
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 0.0 64.6 97.0#

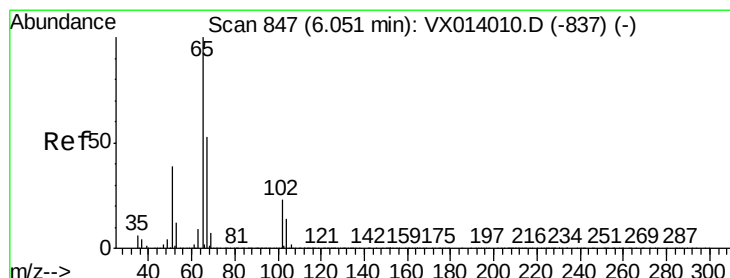
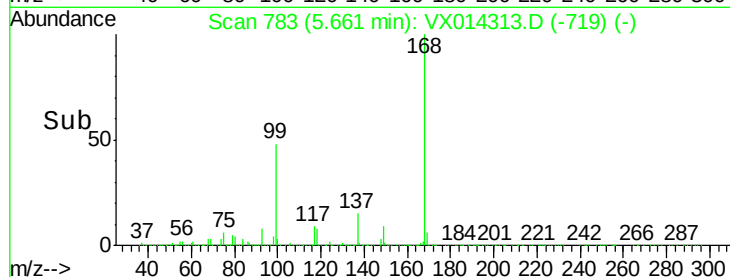
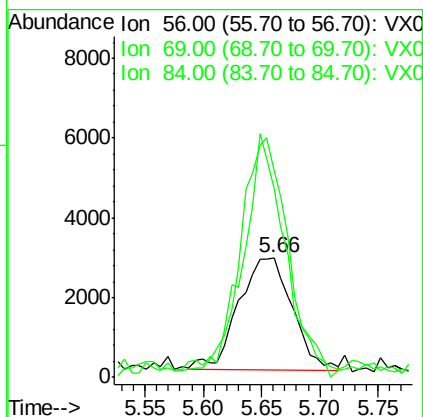
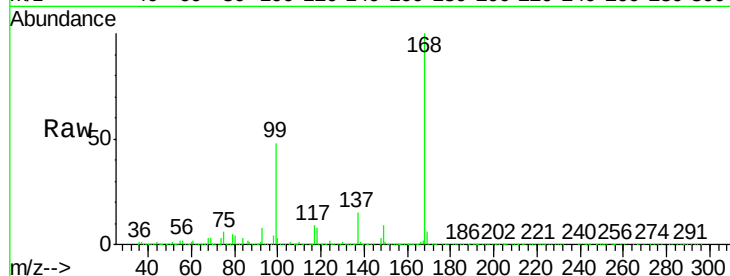




#31
Cyclohexane
Concen: 1.057 ug/l
RT: 5.66 min Scan# 783
Delta R.T. 0.09 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

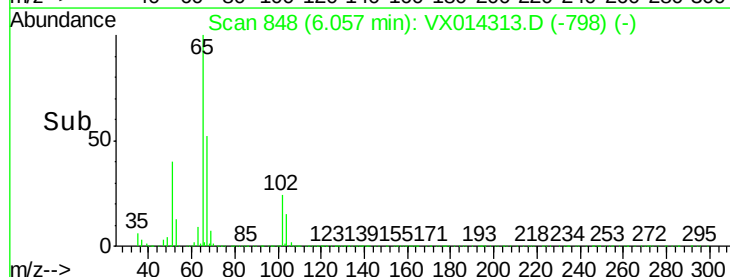
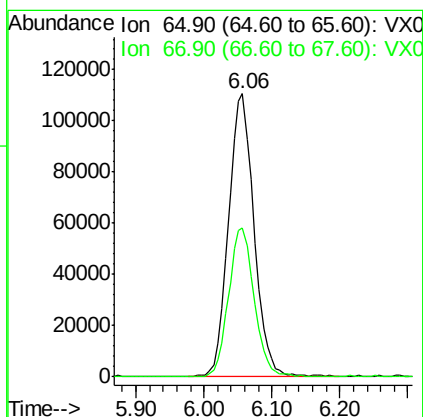
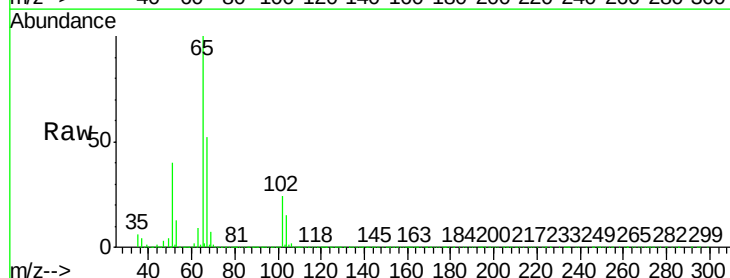
Instrument :
MSVOA_X
ClientSampleId :
GW-5

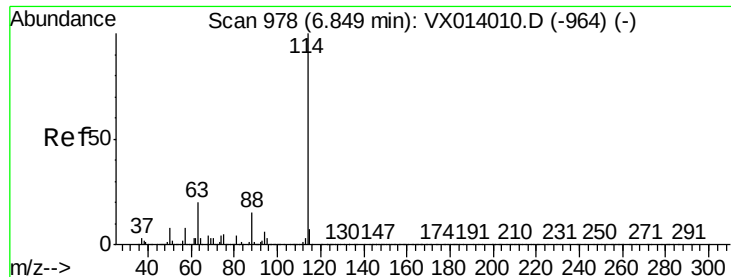
Tgt Ion: 56 Resp: 9067
Ion Ratio Lower Upper
56 100
69 182.0 23.2 34.8#
84 167.1 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 49.804 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

Tgt Ion: 65 Resp: 285796
Ion Ratio Lower Upper
65 100
67 52.8 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: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

GW-5

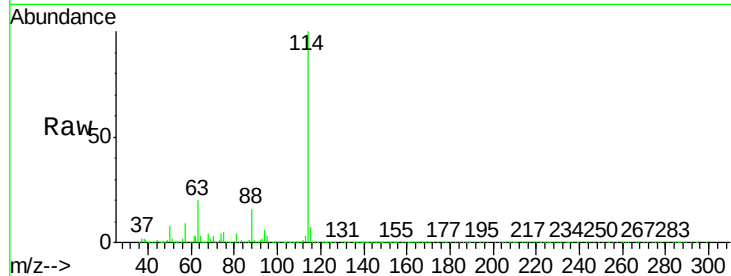
Tgt Ion:114 Resp: 785453

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

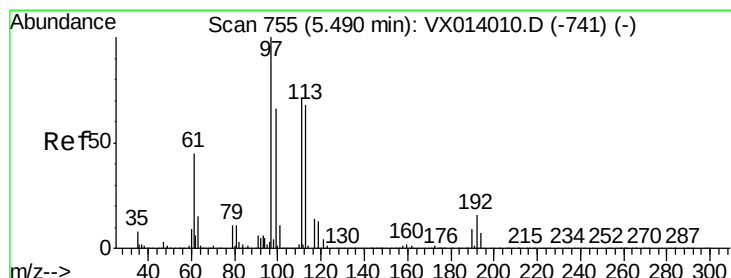
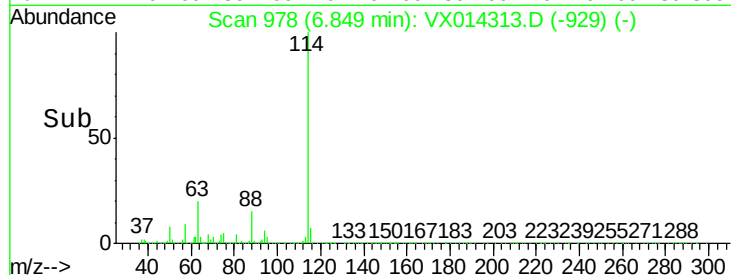
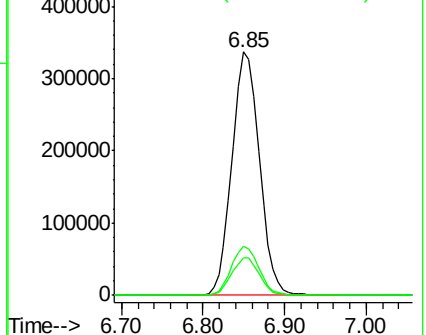
88 15.4 0.0 30.4



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: 49.502 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

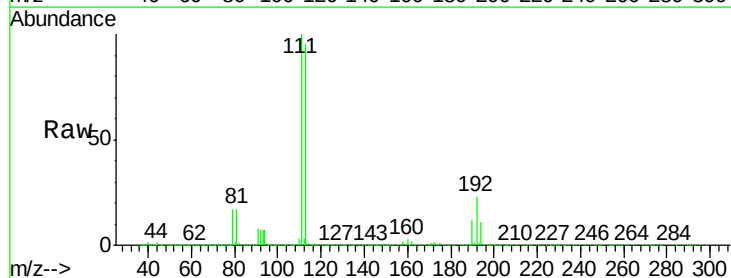
Tgt Ion:113 Resp: 236355

Ion Ratio Lower Upper

113 100

111 101.4 82.0 123.0

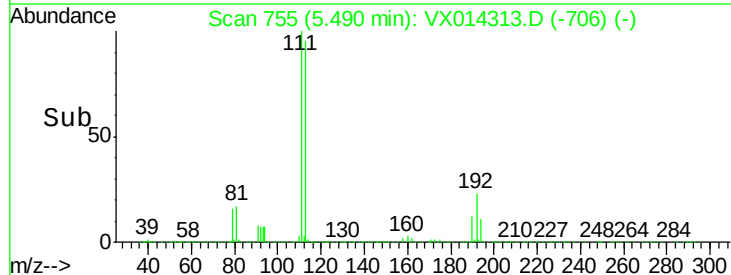
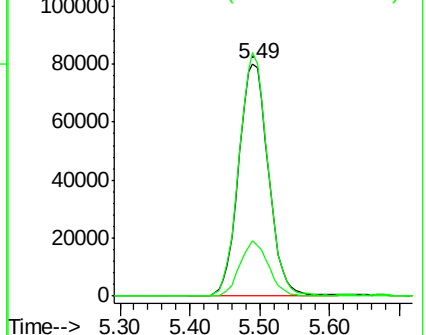
192 22.5 19.3 28.9

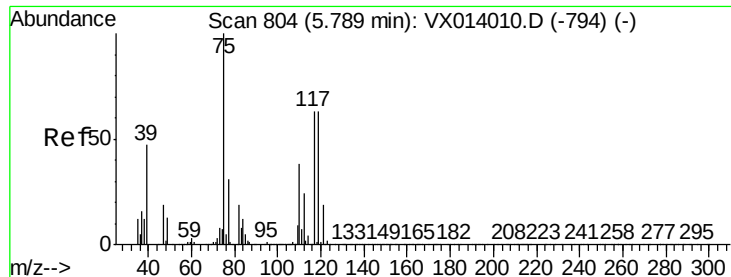


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

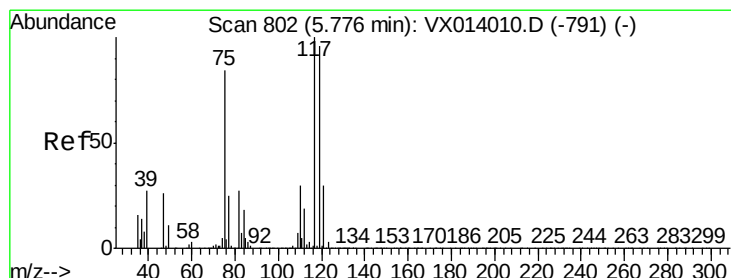
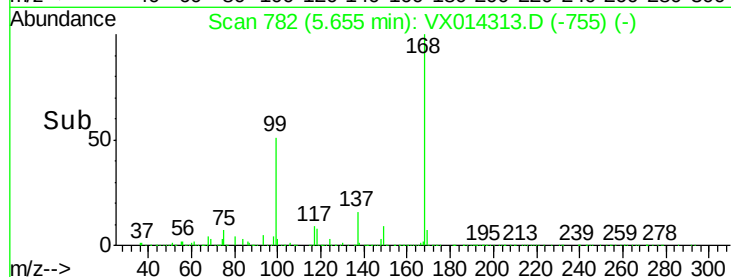
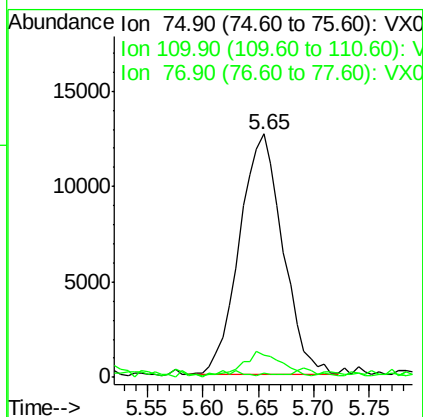
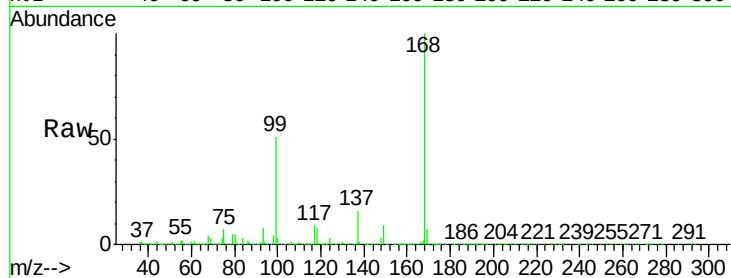




#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014313.D
 Acq: 27 Dec 2019 16:54

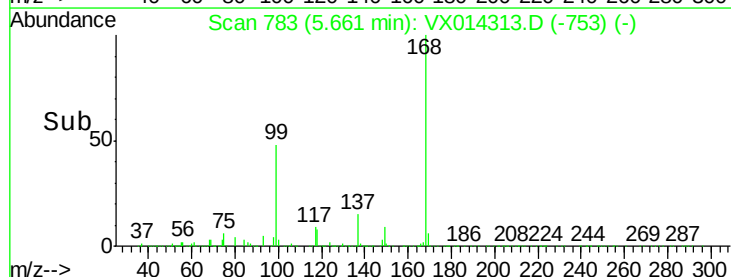
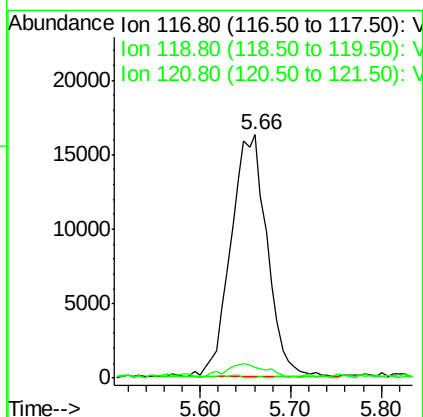
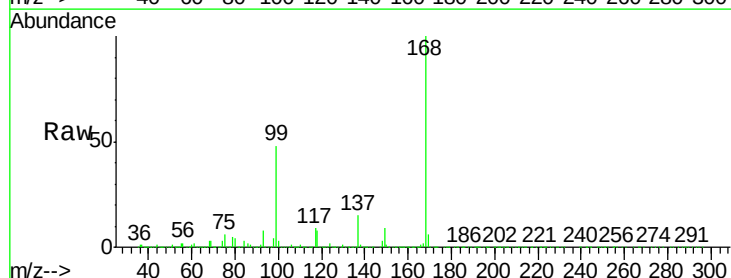
Instrument :
 MSVOA_X
 ClientSampleId :
 GW-5

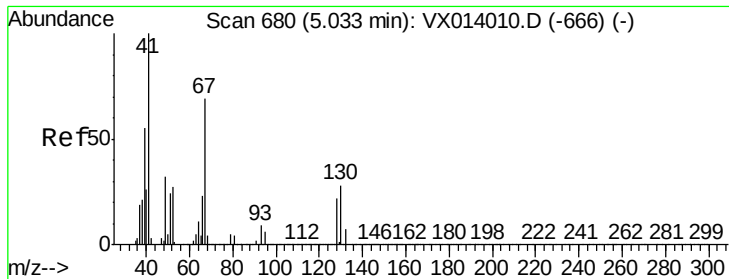
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.9#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.826 ug/l
 RT: 5.66 min Scan# 783
 Delta R.T. -0.12 min
 Lab File: VX014313.D
 Acq: 27 Dec 2019 16:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	2.3	76.2	114.4#
121	1.2	23.6	35.4#





#41

Methacrylonitrile

Concen: 0.287 ug/l

RT: 5.04 min Scan# 682

Delta R.T. 0.01 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

GW-5

Tgt Ion: 41 Resp: 1269

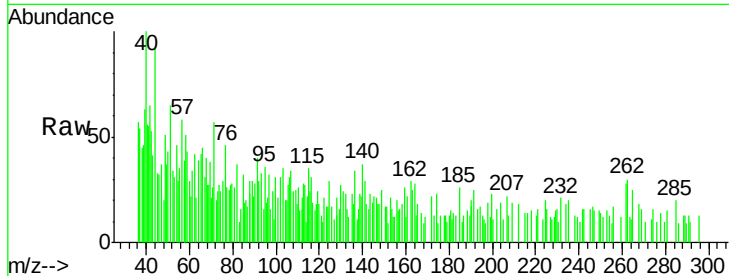
Ion Ratio Lower Upper

41 100

39 53.7 44.5 66.7

67 0.0 57.4 86.0#

52 22.8 23.0 34.4#



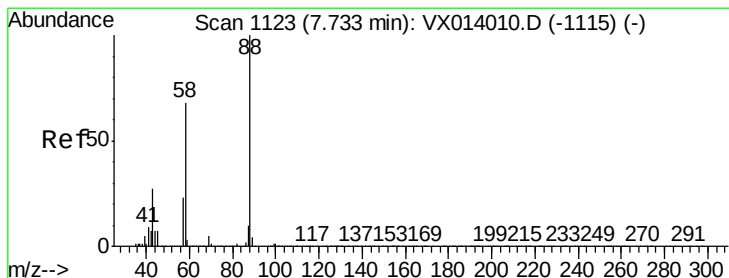
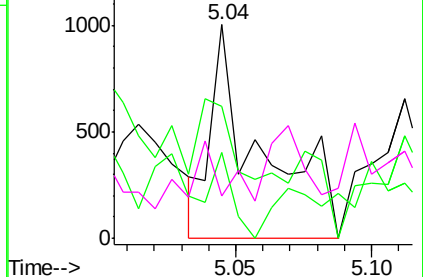
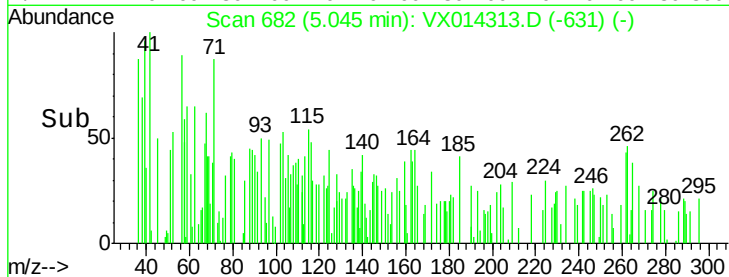
Abundance Ion 41.00 (40.70 to 41.70): VX0

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

Time-->



#49

1,4-Dioxane

Concen: 2.004 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

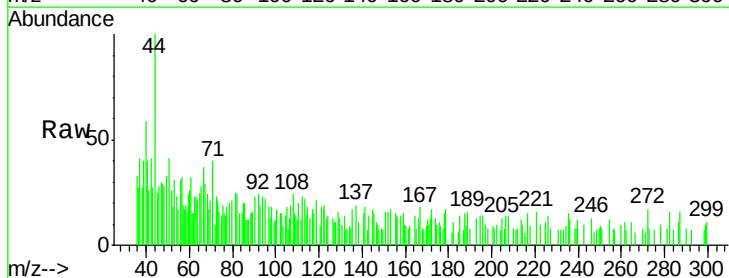
Tgt Ion: 88 Resp: 263

Ion Ratio Lower Upper

88 100

43 216.3 26.5 39.7#

58 173.8 56.8 85.2#

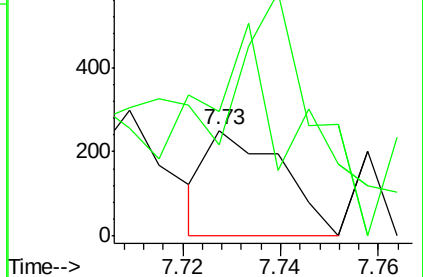
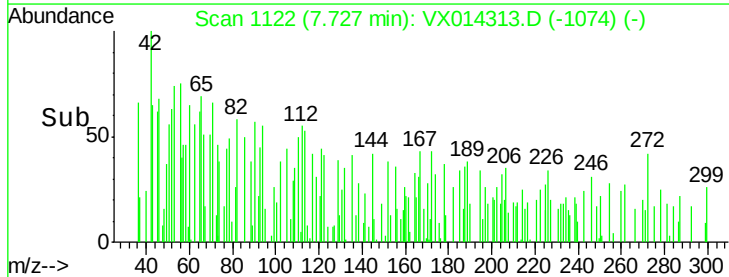


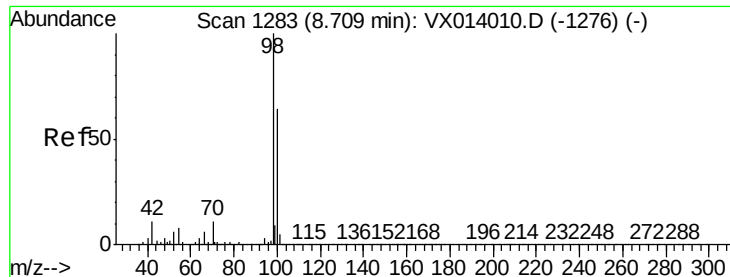
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Time-->

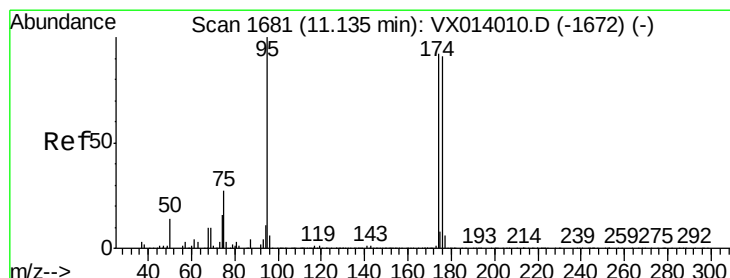
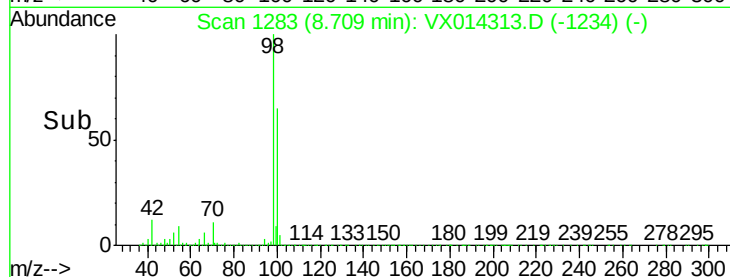
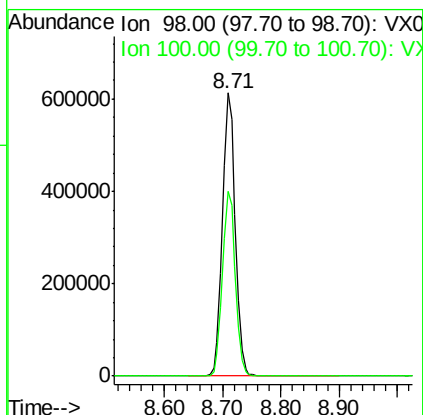
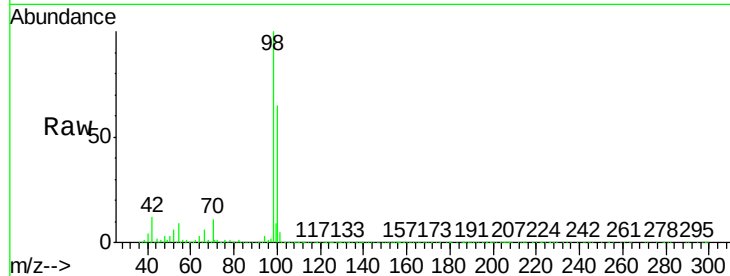




#50
Toluene-d8
Concen: 50.152 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

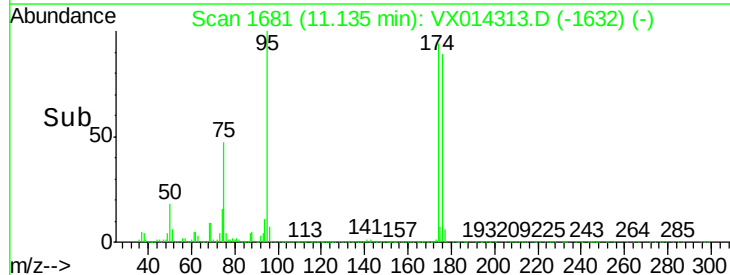
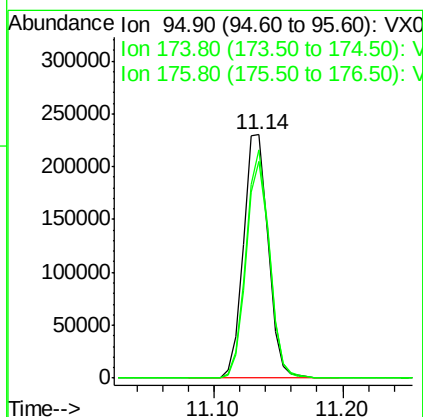
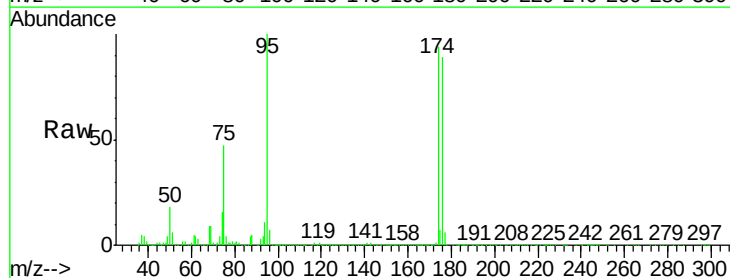
Instrument :
MSVOA_X
ClientSampleId :
GW-5

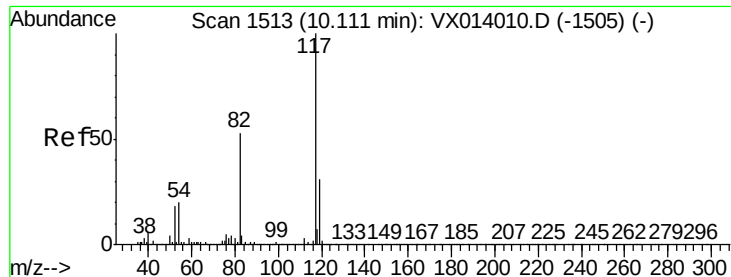
Tgt Ion: 98 Resp: 932284
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 44.679 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

Tgt Ion: 95 Resp: 303599
Ion Ratio Lower Upper
95 100
174 88.7 0.0 175.8
176 85.0 0.0 173.0

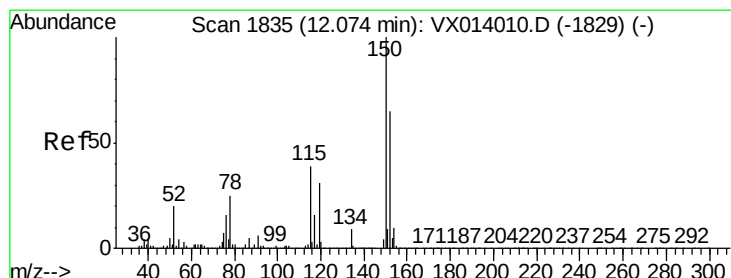
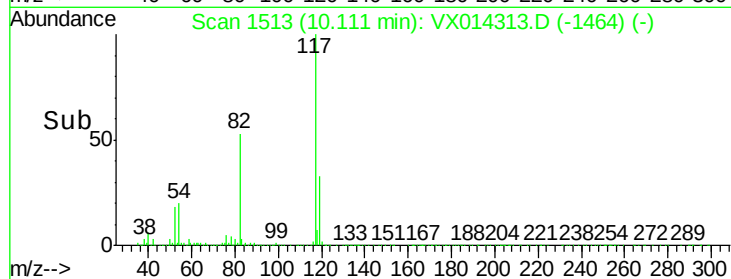
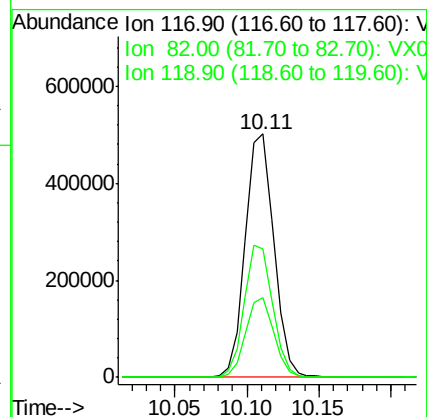
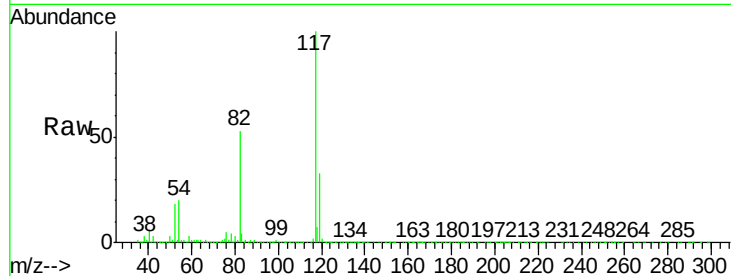




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

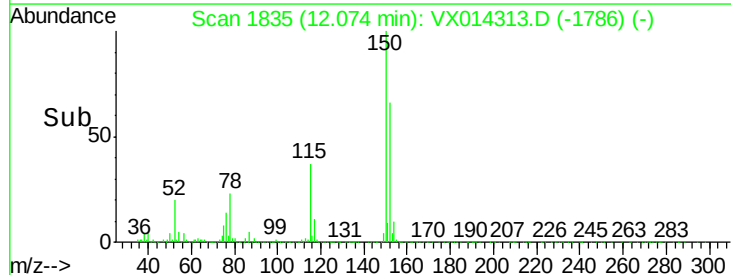
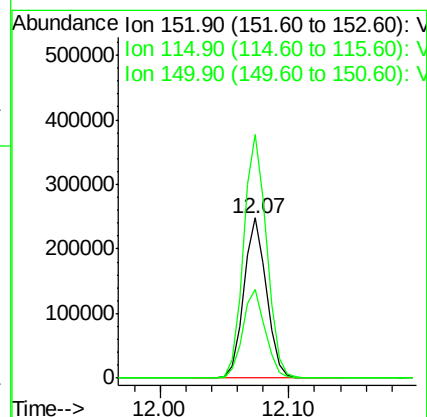
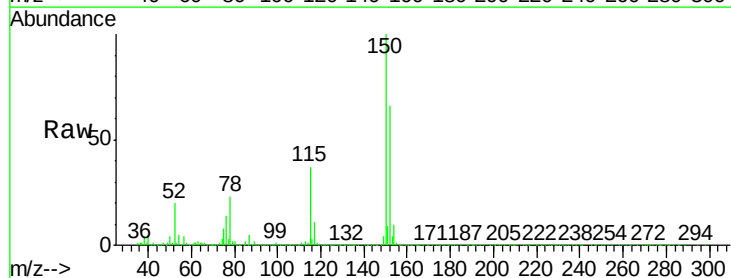
Instrument :
MSVOA_X
ClientSampleId :
GW-5

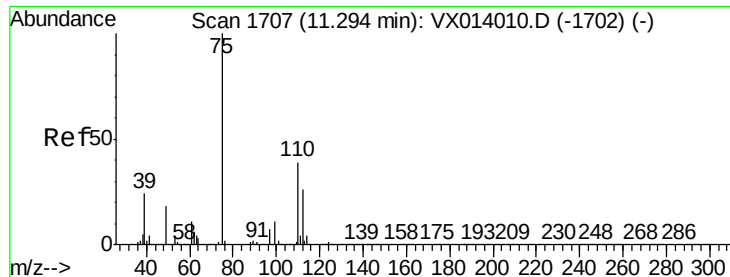
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.2	63.4
119	32.7	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014313.D
Acq: 27 Dec 2019 16:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	38.3	114.9
150	155.0	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 22.642 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

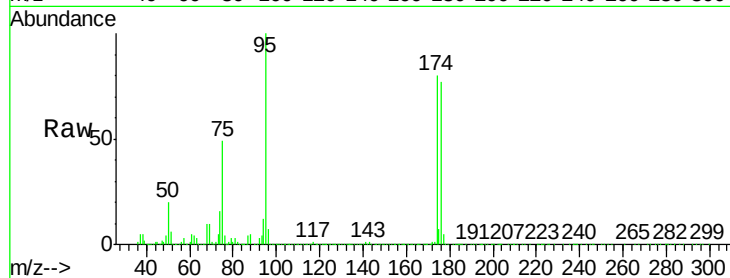
GW-5

Tgt Ion: 75 Resp: 147552

Ion Ratio Lower Upper

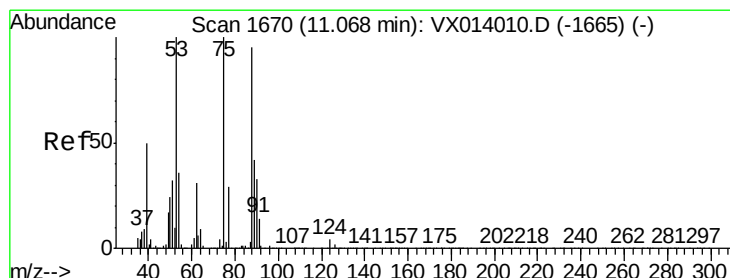
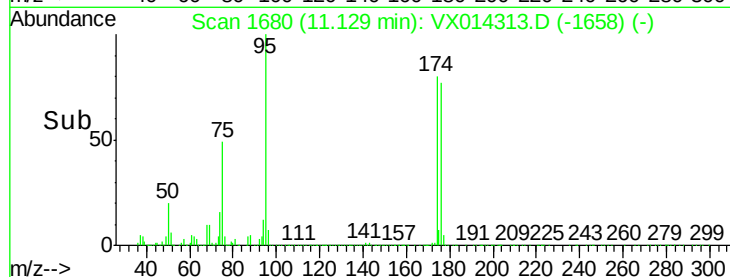
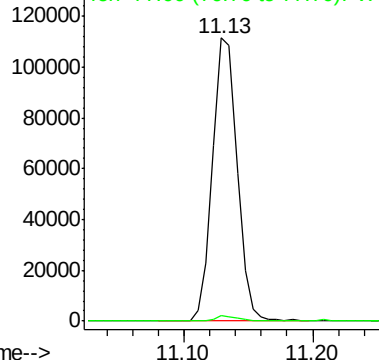
75 100

77 2.0 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: 63.906 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014313.D

Acq: 27 Dec 2019 16:54

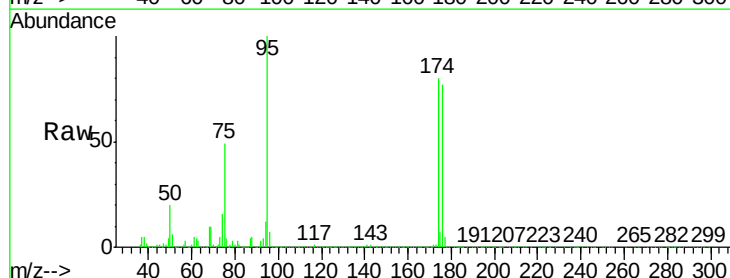
Tgt Ion: 75 Resp: 147552

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

