

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014312.D
 Acq On : 27 Dec 2019 16:31
 Operator : JC/SP
 Sample : K6434-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-3

Quant Time: Dec 30 05:36:29 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	504378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	784000	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	700898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	299480	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	287260	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	5.49	113	237379	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	8.71	98	930515	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.14	95	305444	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

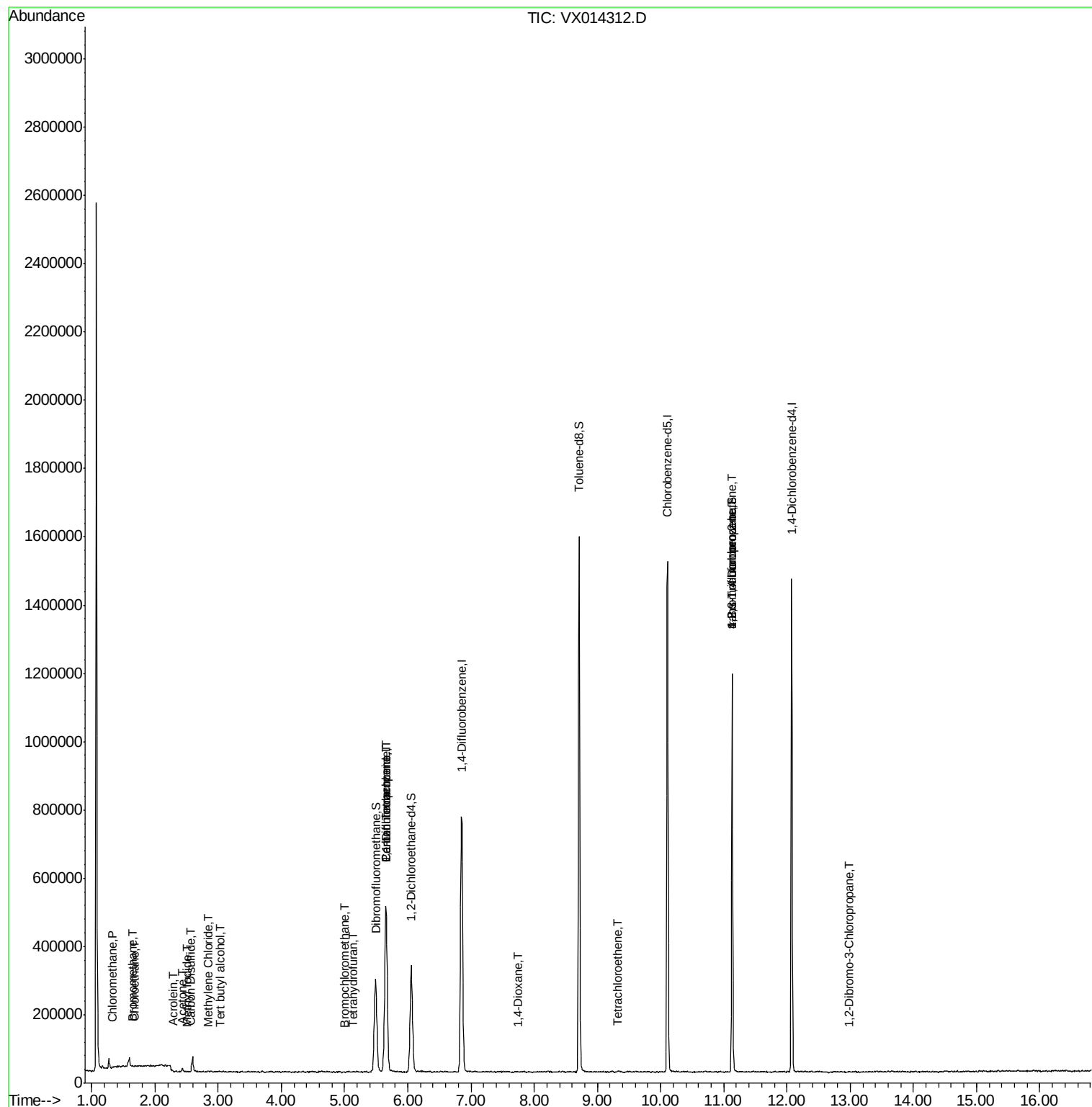
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2355	0.389	ug/l	99
5) Bromomethane	1.65	94	2141	0.472	ug/l #	63
6) Chloroethane	1.68	64	1578	0.400	ug/l #	66
10) Methyl Iodide	2.51	142	683	2.724	ug/l #	38
11) Tert butyl alcohol	3.04	59	535	0.433	ug/l #	24
13) Acrolein	2.29	56	372	0.526	ug/l	84
16) Acetone	2.43	43	8860	2.387	ug/l #	86
17) Carbon Disulfide	2.56	76	1708	0.875	ug/l #	95
20) Methylene Chloride	2.85	84	1446	0.247	ug/l #	54
28) Bromochloromethane	5.01	49	167	0.499	ug/l #	80
29) Tetrahydrofuran	5.14	42	897	0.351	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	35341	4.913	ug/l #	51
38) Carbon Tetrachloride	5.65	117	44920	6.855	ug/l #	16
49) 1,4-Dioxane	7.73	88	398	3.038	ug/l #	18
64) Tetrachloroethene	9.32	164	1311	0.211	ug/l #	61
76) 1,2,3-Trichloropropane	11.14	75	150566	23.158	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	150566	65.364	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	666	0.412	ug/l #	9

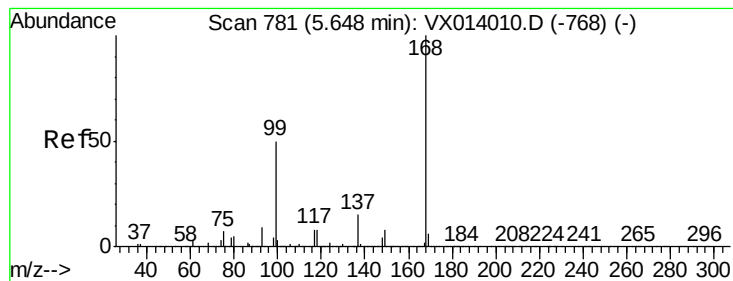
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

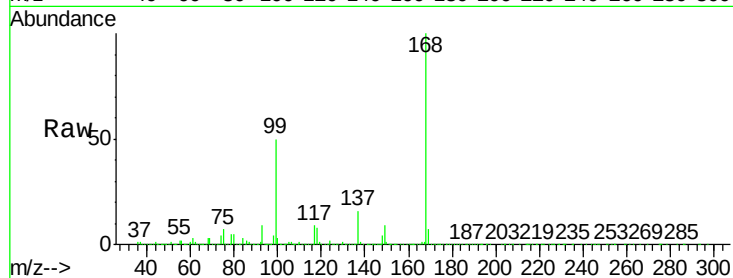
GW-3

Tgt Ion:168 Resp: 504378

Ion Ratio Lower Upper

168 100

99 49.8 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

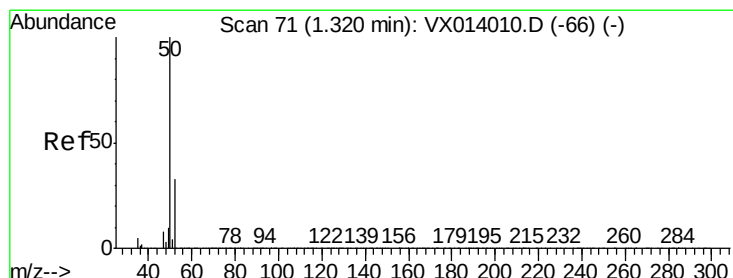
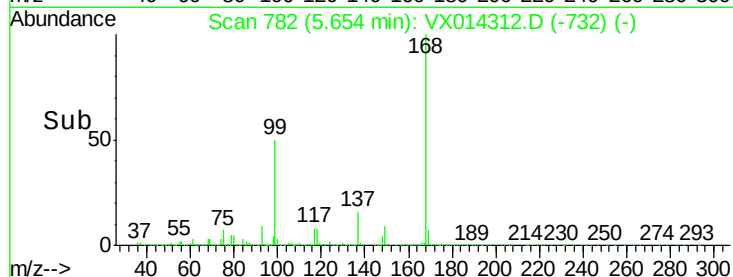
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.389 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014312.D

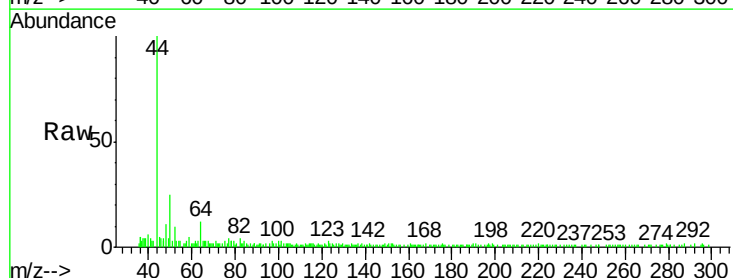
Acq: 27 Dec 2019 16:31

Tgt Ion: 50 Resp: 2355

Ion Ratio Lower Upper

50 100

52 32.0 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

2000

1500

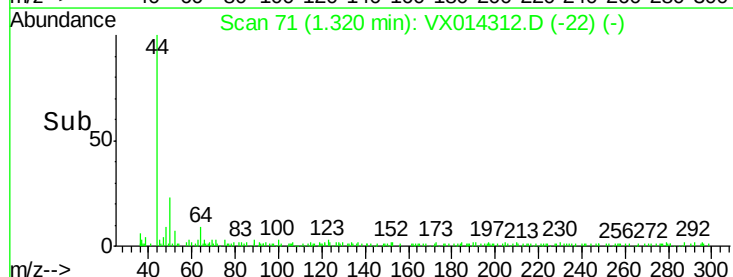
1000

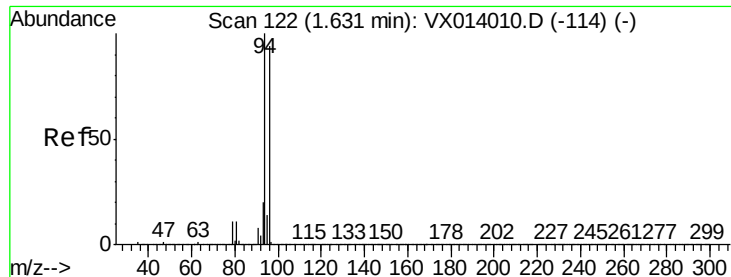
500

0

Time-->

1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.472 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampled :

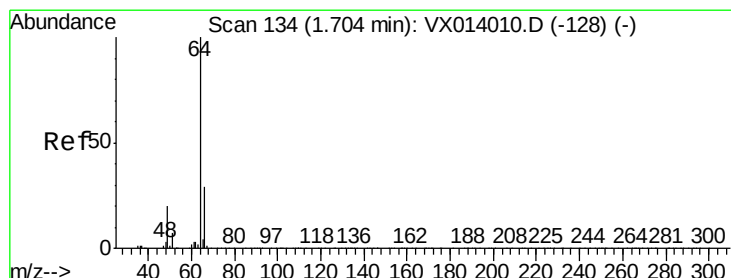
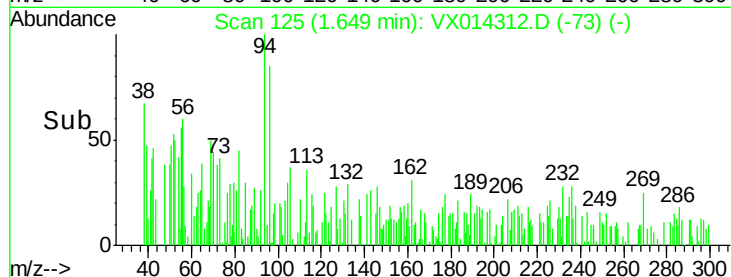
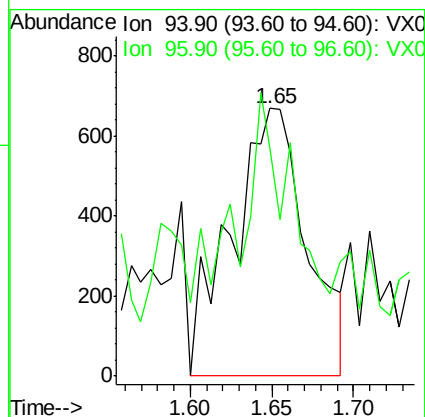
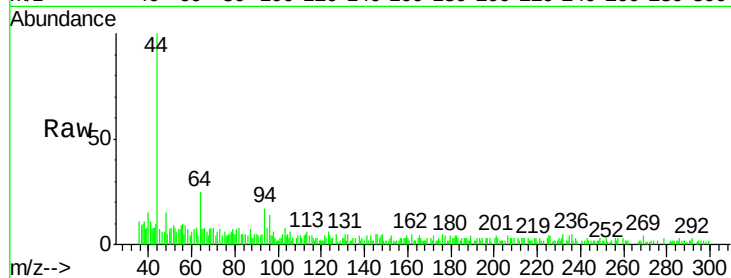
GW-3

Tgt Ion: 94 Resp: 2141

Ion Ratio Lower Upper

94 100

96 57.9 75.2 112.8#



#6

Chloroethane

Concen: 0.400 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.02 min

Lab File: VX014312.D

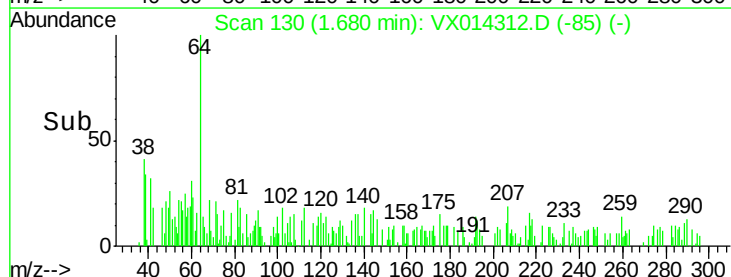
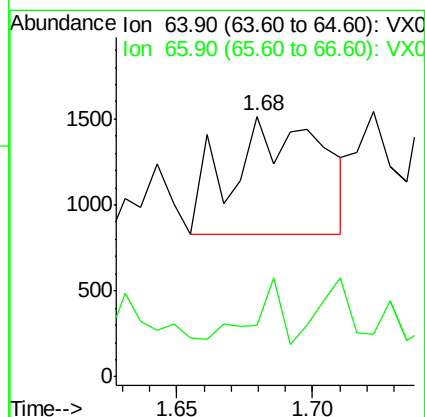
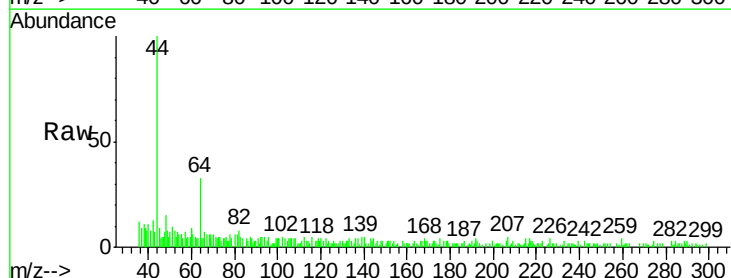
Acq: 27 Dec 2019 16:31

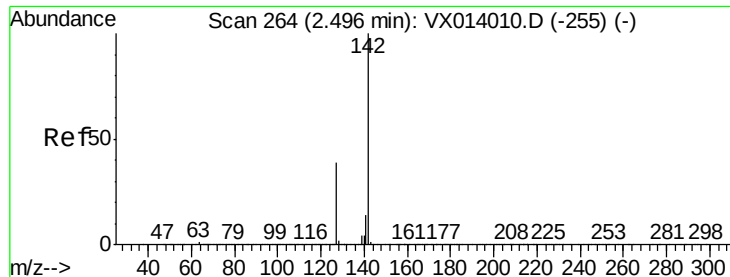
Tgt Ion: 64 Resp: 1578

Ion Ratio Lower Upper

64 100

66 11.1 23.4 35.2#

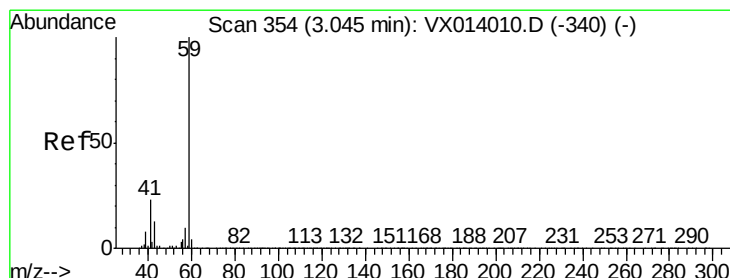
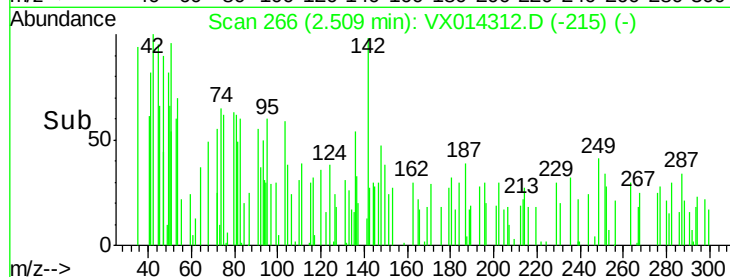
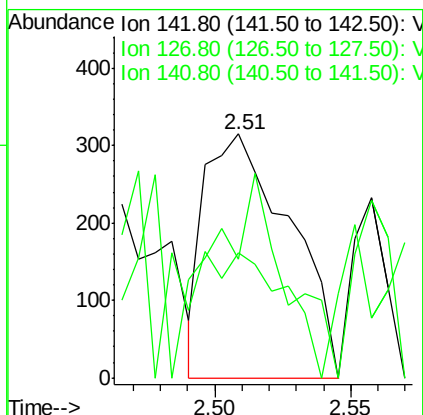
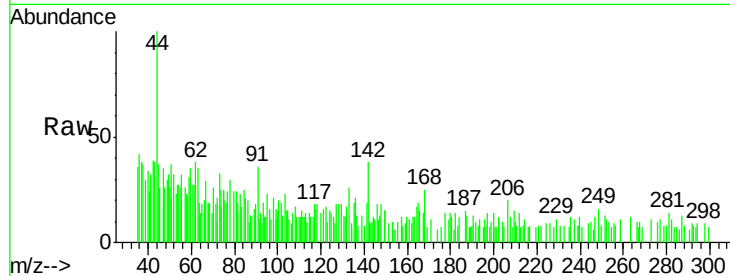




#10
Methyl Iodide
Concen: 2.724 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014312.D
Acq: 27 Dec 2019 16:31

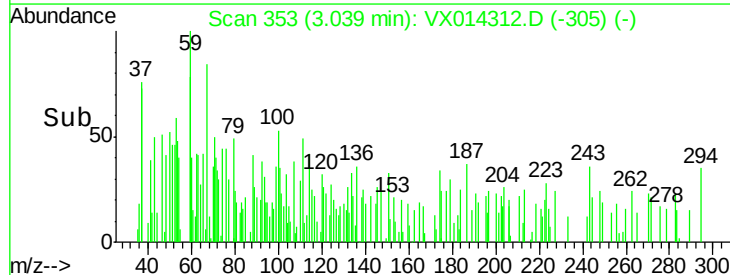
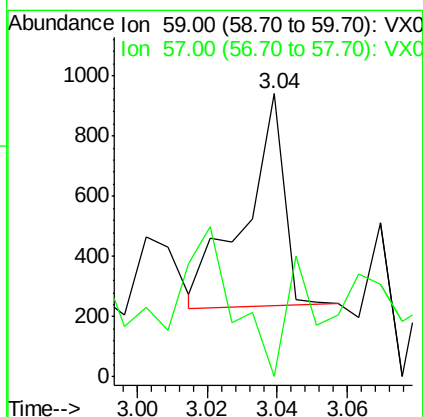
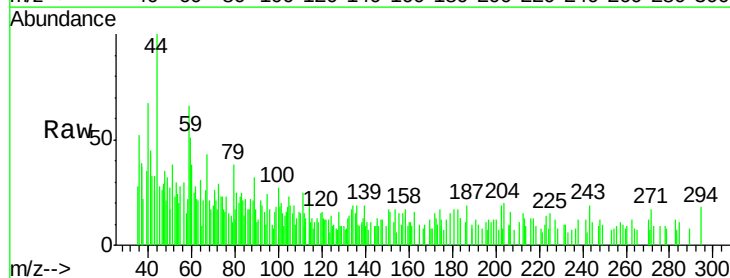
Instrument :
MSVOA_X
ClientSampled :
GW-3

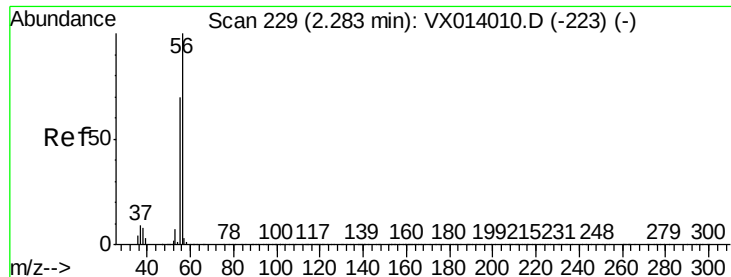
Tgt Ion: 142 Resp: 683
Ion Ratio Lower Upper
142 100
127 72.9 31.6 47.4#
141 48.9 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.433 ug/l
RT: 3.04 min Scan# 353
Delta R.T. -0.01 min
Lab File: VX014312.D
Acq: 27 Dec 2019 16:31

Tgt Ion: 59 Resp: 535
Ion Ratio Lower Upper
59 100
57 39.1 8.4 12.6#





#13

Acrolein

Concen: 0.526 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampled :

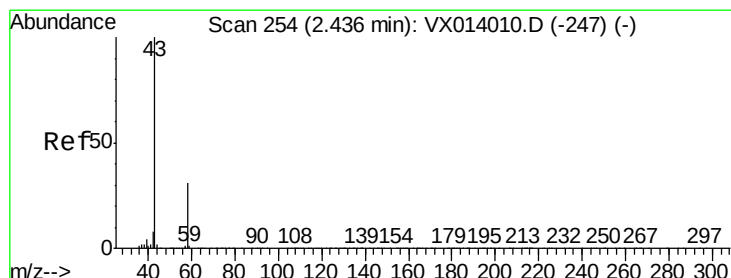
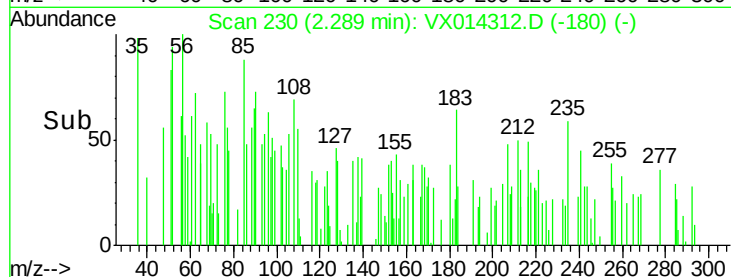
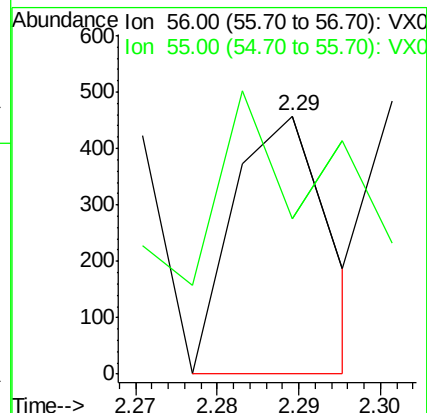
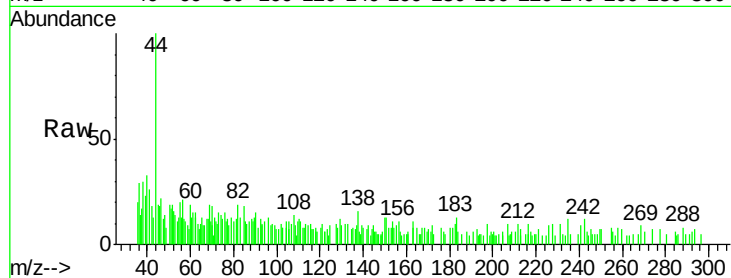
GW-3

Tgt Ion: 56 Resp: 372

Ion Ratio Lower Upper

56 100

55 84.4 56.9 85.3



#16

Acetone

Concen: 2.387 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014312.D

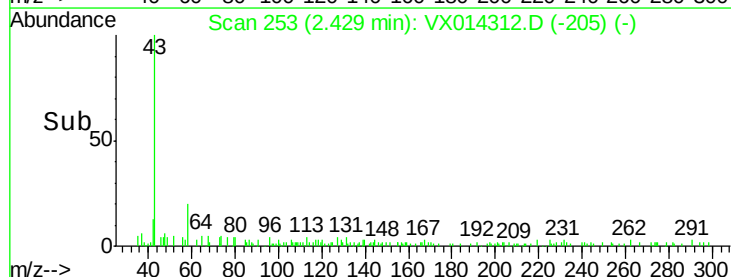
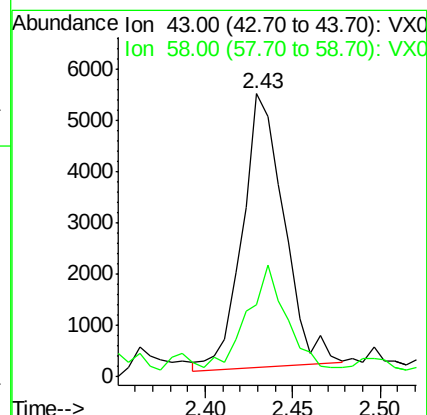
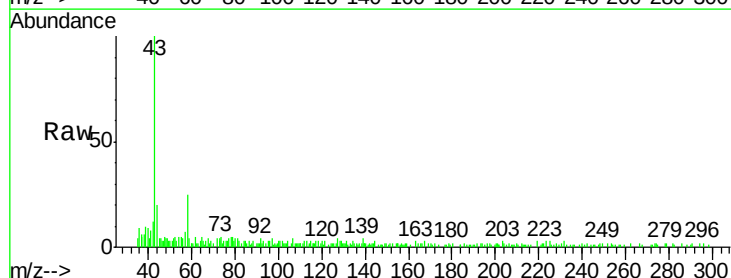
Acq: 27 Dec 2019 16:31

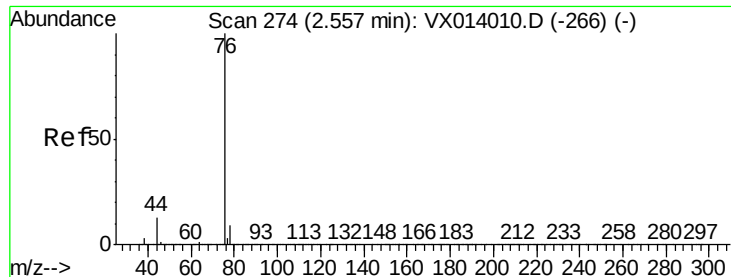
Tgt Ion: 43 Resp: 8860

Ion Ratio Lower Upper

43 100

58 23.2 24.9 37.3#





#17

Carbon Disulfide

Concen: 0.875 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampled :

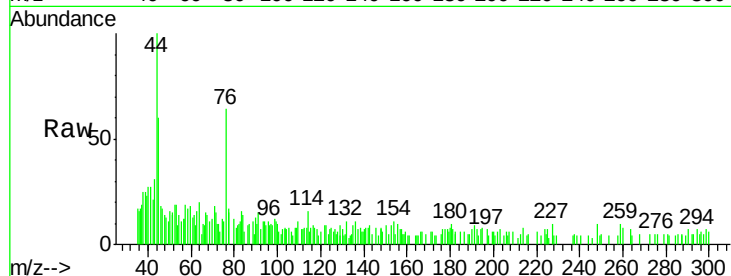
GW-3

Tgt Ion: 76 Resp: 1708

Ion Ratio Lower Upper

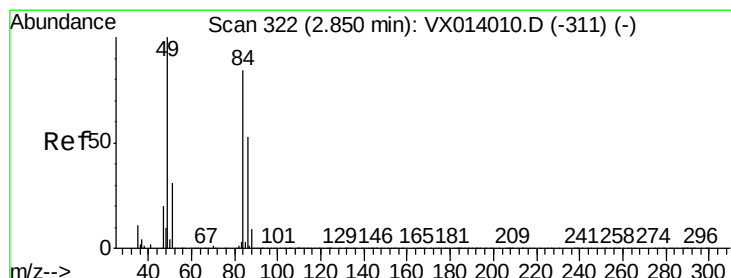
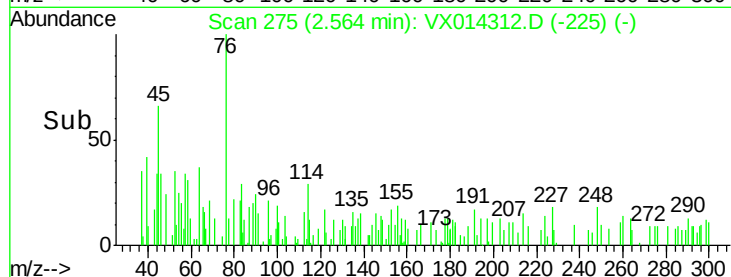
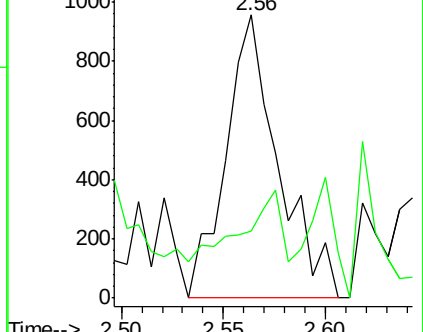
76 100

78 10.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.247 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Tgt Ion: 84 Resp: 1446

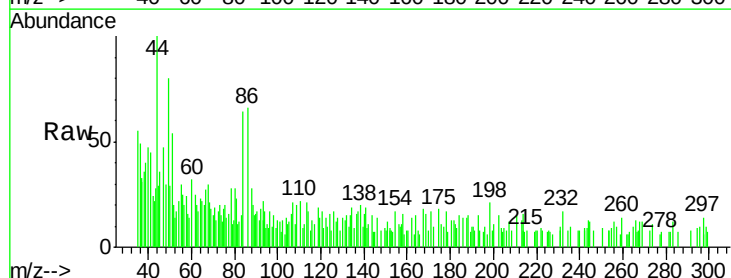
Ion Ratio Lower Upper

84 100

49 67.4 95.8 143.6#

51 62.7 29.8 44.8#

86 98.6 50.8 76.2#

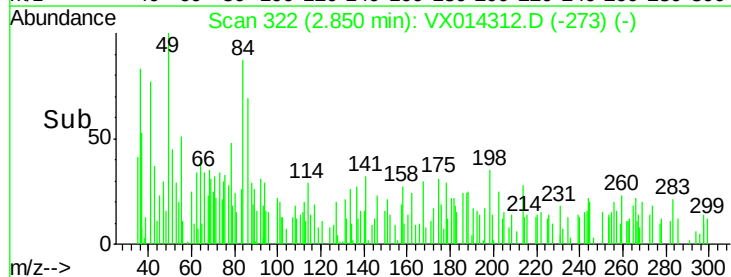
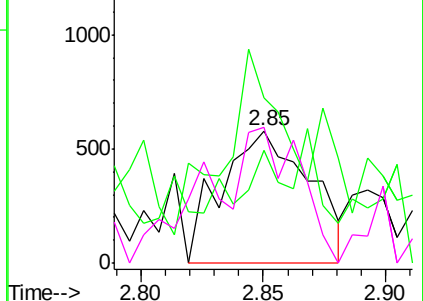


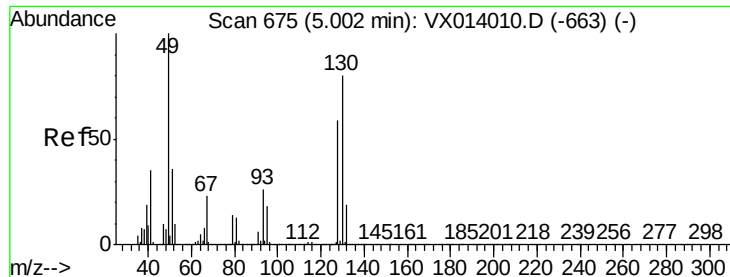
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#28

Bromochloromethane

Concen: 0.499 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampled :

GW-3

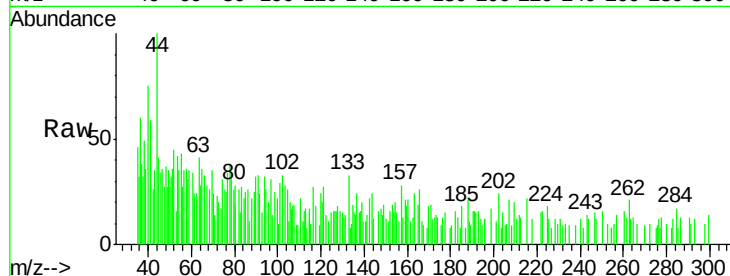
Tgt Ion: 49 Resp: 167

Ion Ratio Lower Upper

49 100

129 205.4 0.0 5.0#

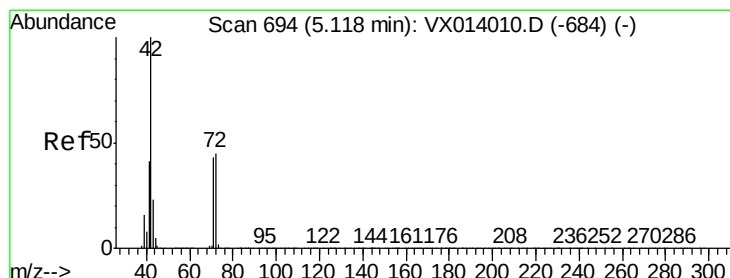
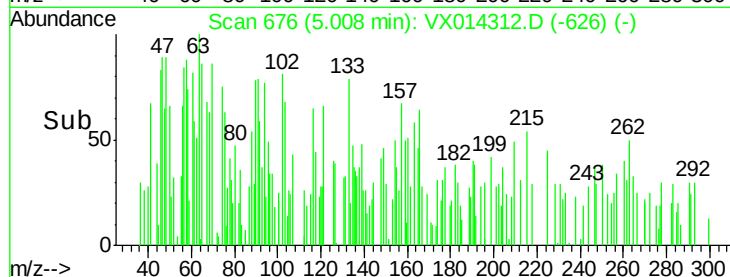
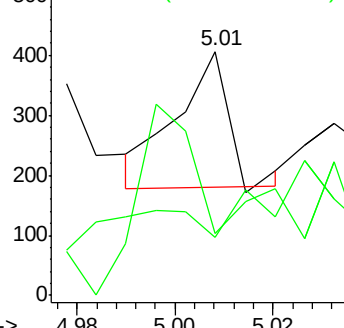
130 82.6 64.6 97.0



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.351 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

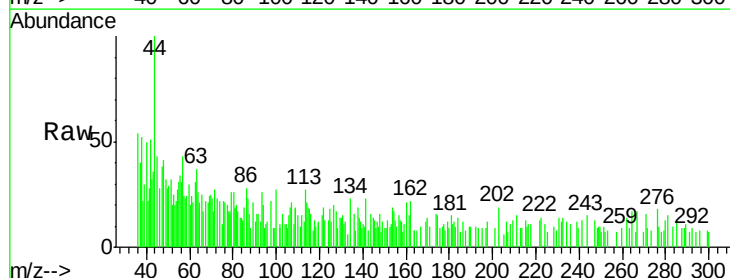
Tgt Ion: 42 Resp: 897

Ion Ratio Lower Upper

42 100

72 35.1 35.8 53.8#

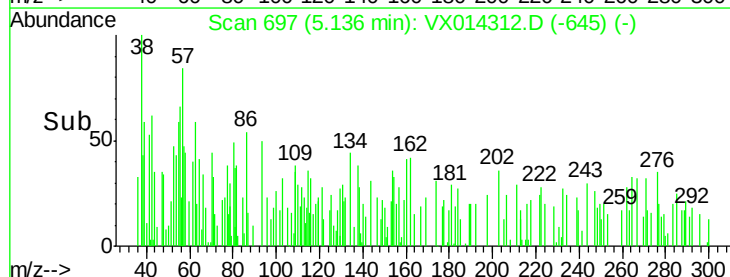
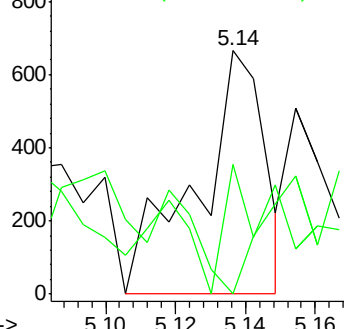
71 52.7 33.6 50.4#

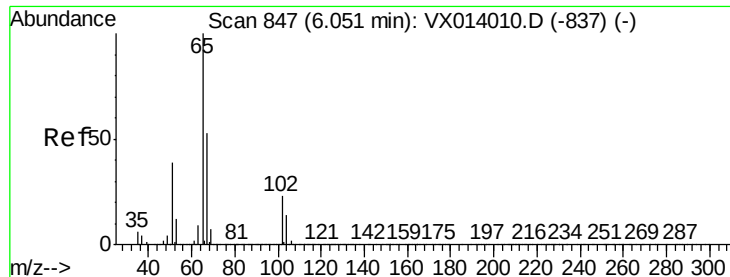


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.252 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

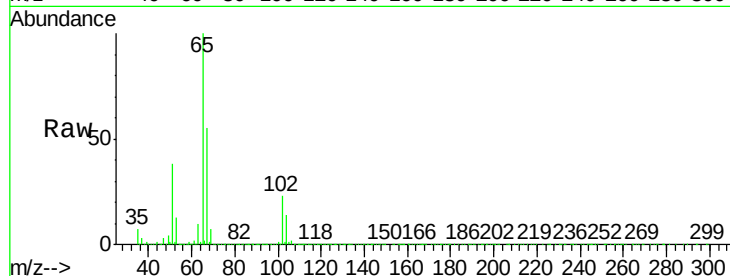
GW-3

Tgt Ion: 65 Resp: 287260

Ion Ratio Lower Upper

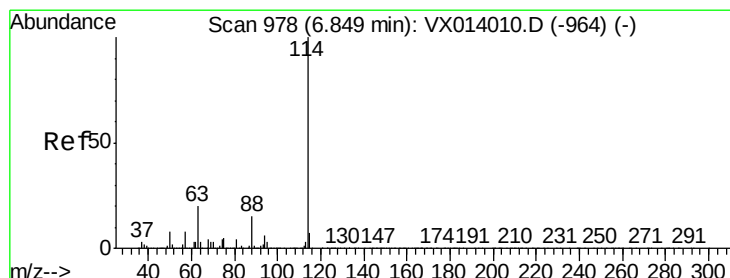
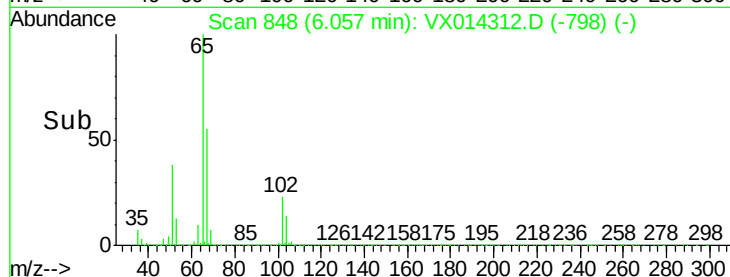
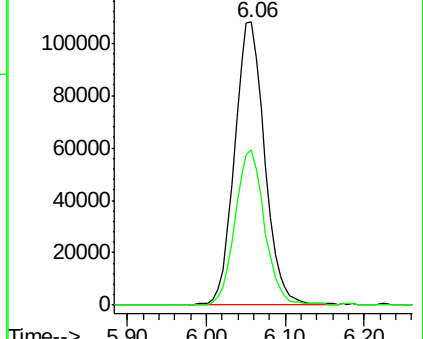
65 100

67 53.2 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: VX014312.D

Acq: 27 Dec 2019 16:31

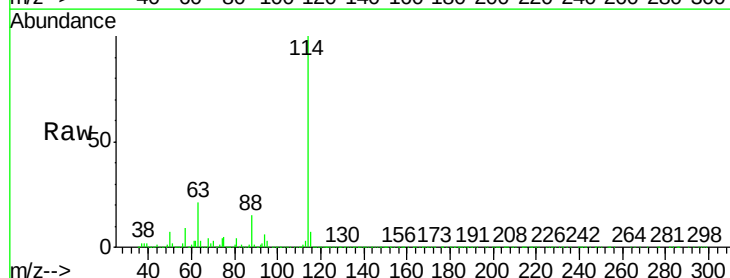
Tgt Ion: 114 Resp: 784000

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

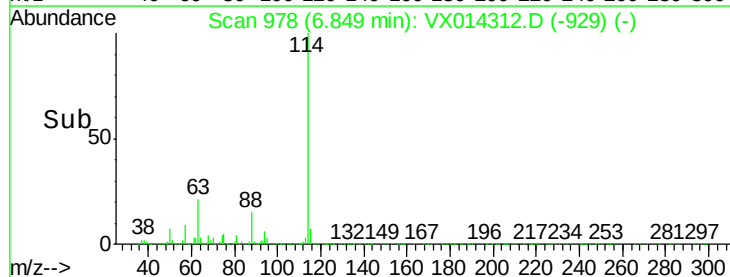
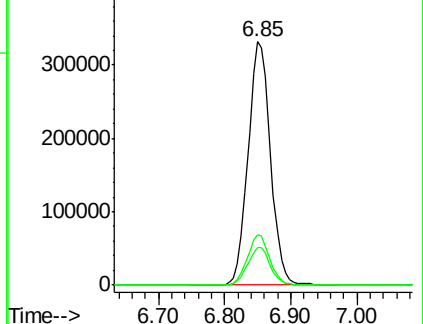
88 15.4 0.0 30.4

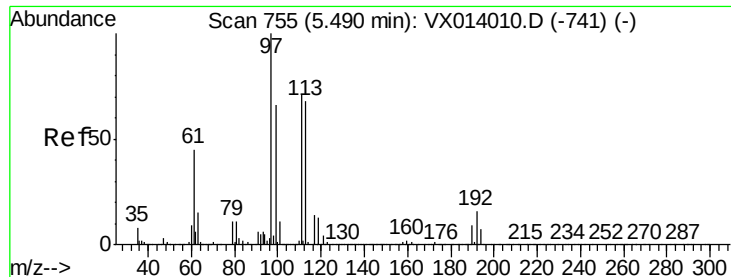


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.808 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

GW-3

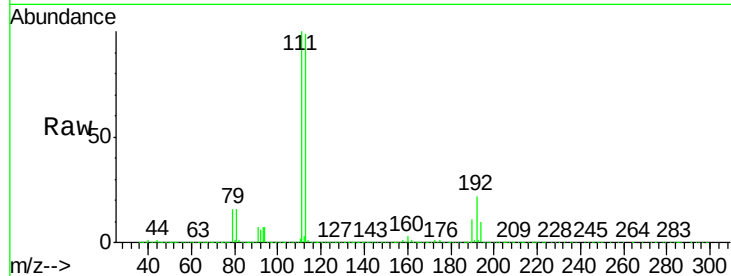
Tgt Ion:113 Resp: 237379

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

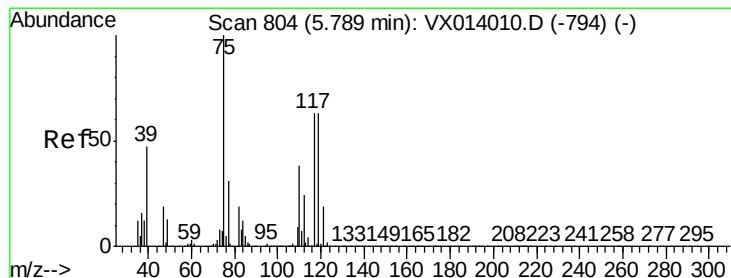
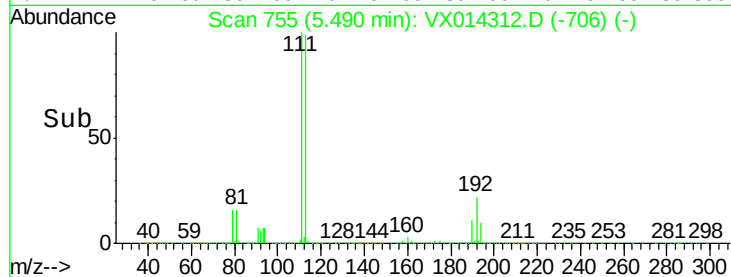
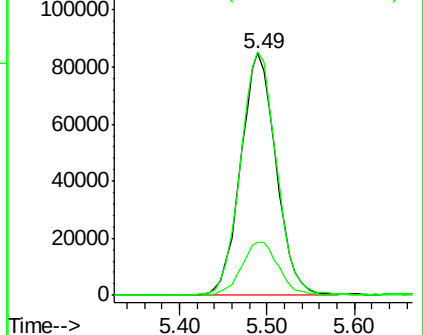
192 23.2 19.3 28.9



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: 4.913 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

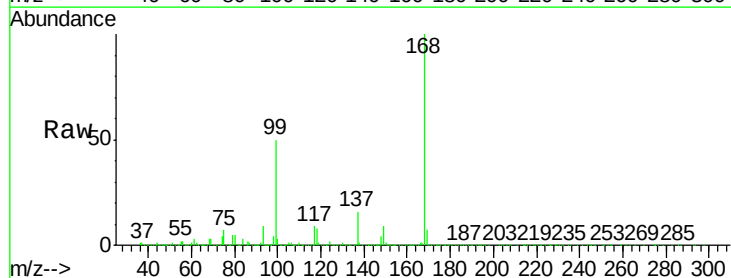
Tgt Ion: 75 Resp: 35341

Ion Ratio Lower Upper

75 100

110 10.1 18.3 54.9#

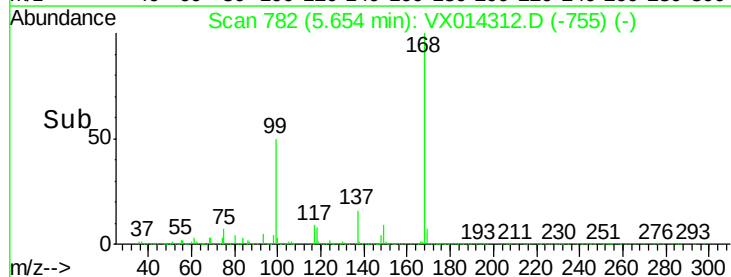
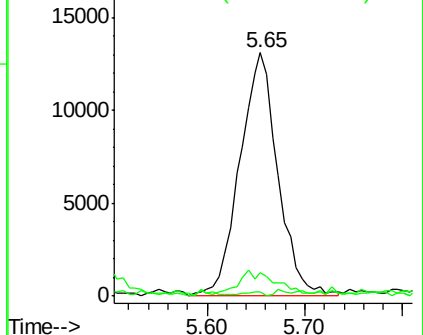
77 1.0 24.8 37.2#

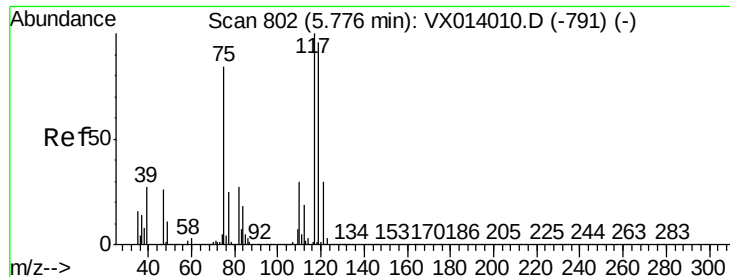


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.855 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampled :

GW-3

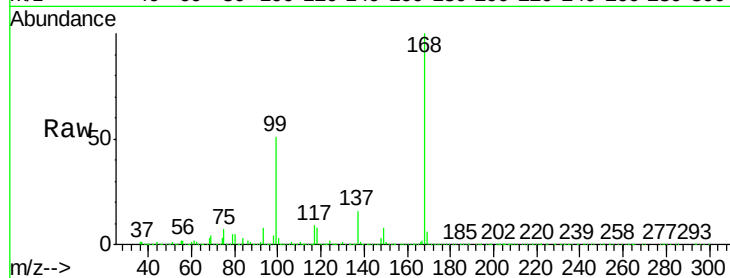
Tgt Ion:117 Resp: 44920

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.4#

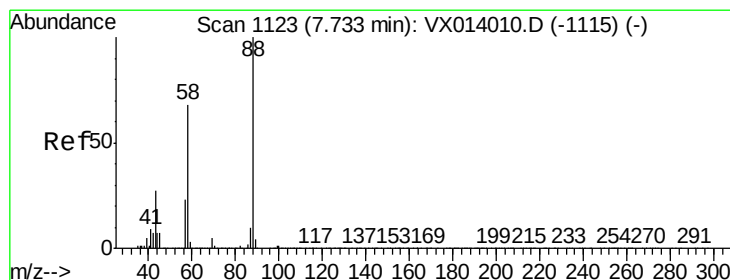
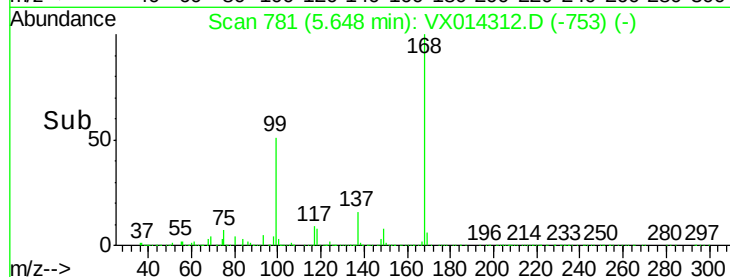
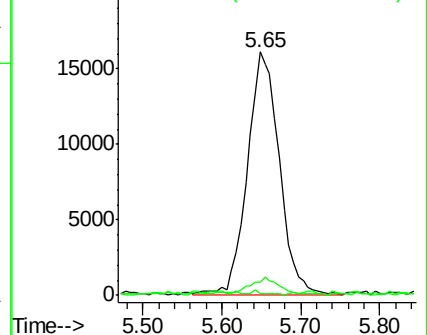
121 0.0 23.6 35.4#



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: 3.038 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

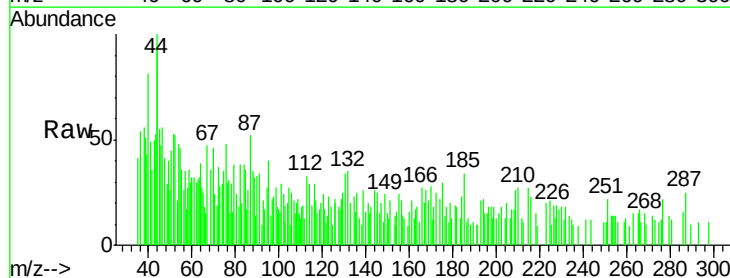
Tgt Ion: 88 Resp: 398

Ion Ratio Lower Upper

88 100

43 146.0 26.5 39.7#

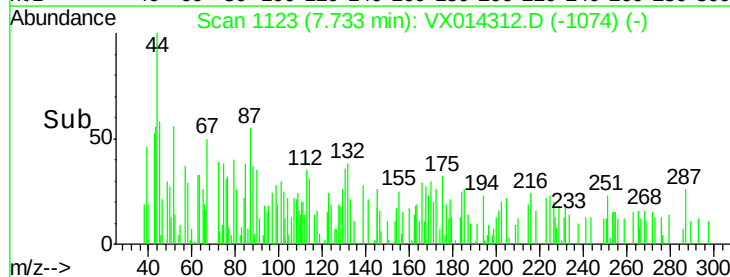
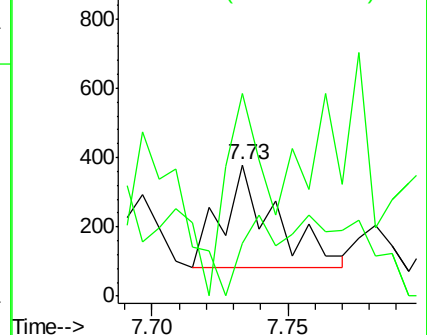
58 49.0 56.8 85.2#

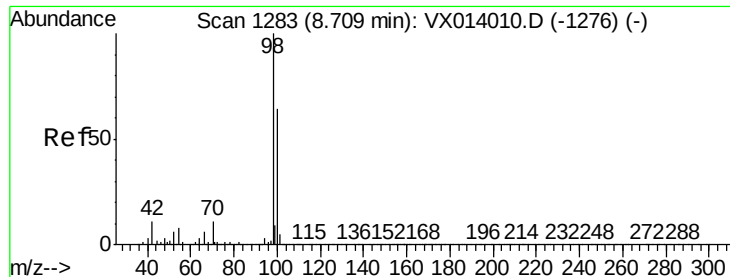


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.150 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

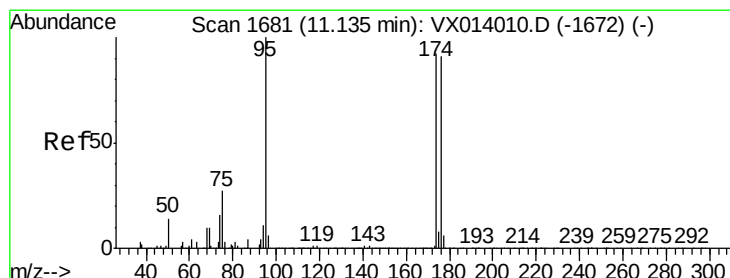
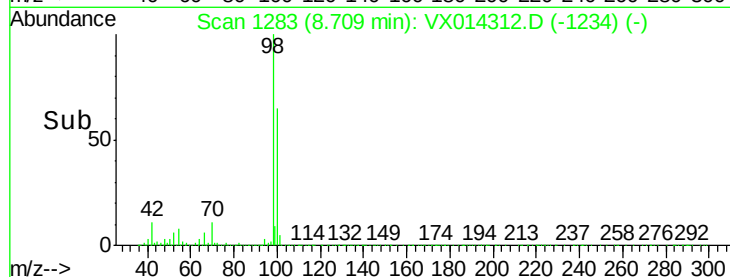
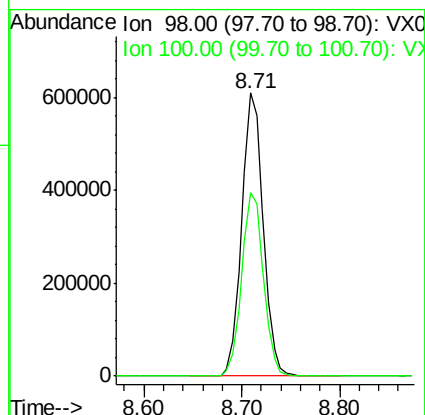
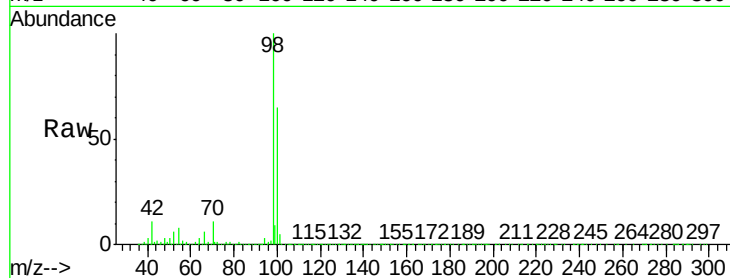
GW-3

Tgt Ion: 98 Resp: 930515

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.034 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

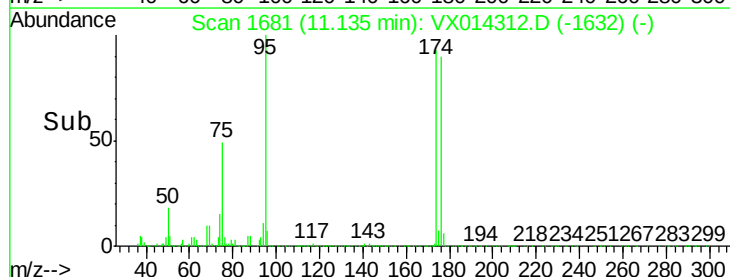
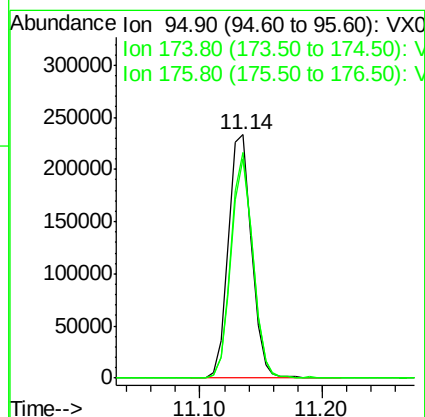
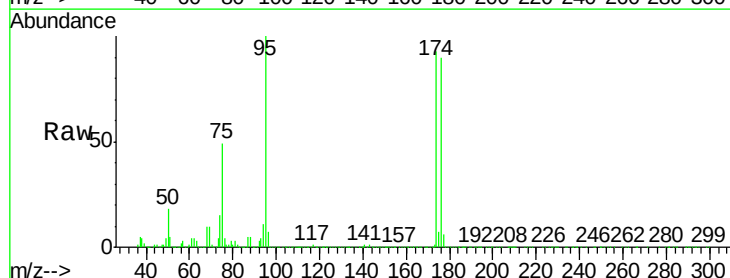
Tgt Ion: 95 Resp: 305444

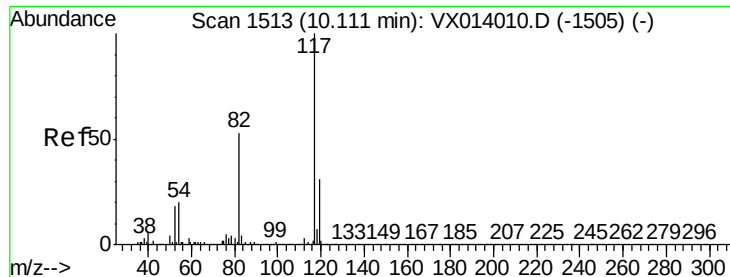
Ion Ratio Lower Upper

95 100

174 87.5 0.0 175.8

176 85.4 0.0 173.0

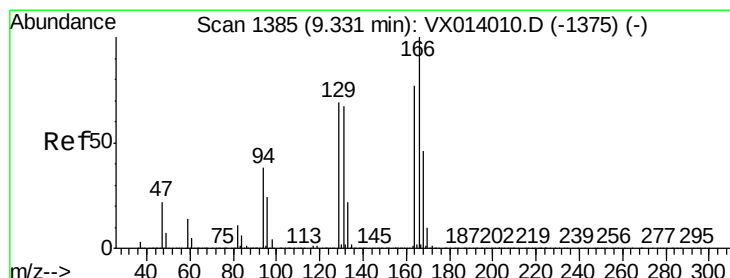
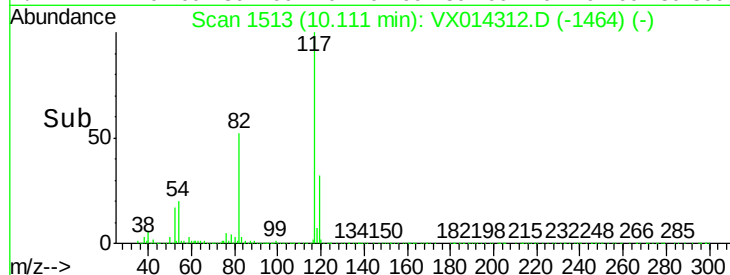
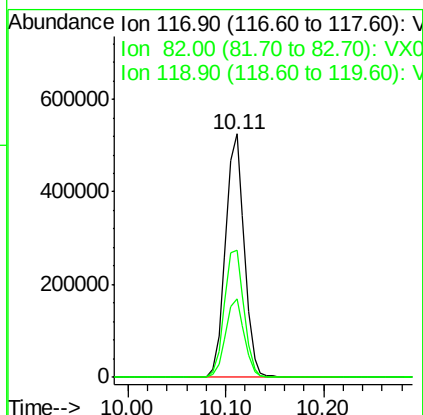
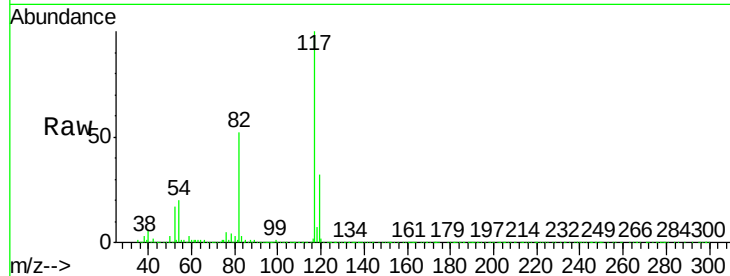




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014312.D
Acq: 27 Dec 2019 16:31

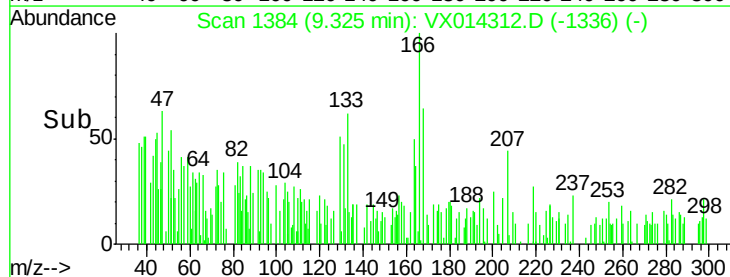
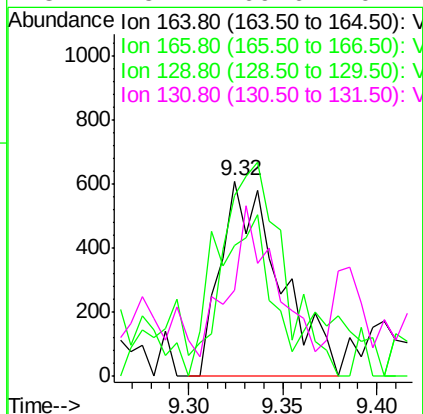
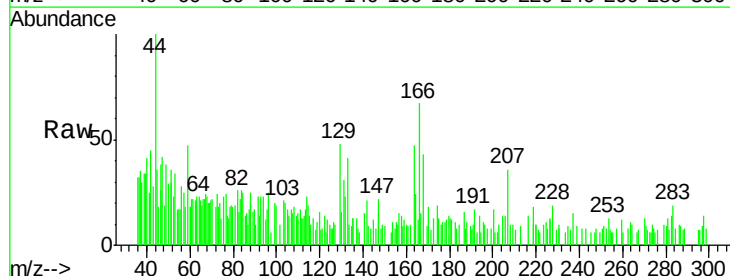
Instrument :
MSVOA_X
ClientSampleId :
GW-3

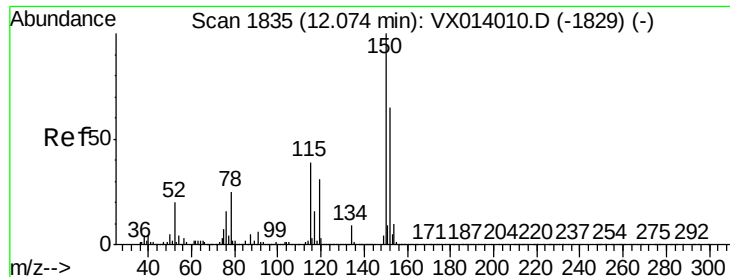
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.2	63.4
119	32.3	25.1	37.7



#64
Tetrachloroethene
Concen: 0.211 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX014312.D
Acq: 27 Dec 2019 16:31

Tgt Ion	Ratio	Lower	Upper
164	100		
166	93.1	104.0	156.0#
129	66.9	72.2	108.4#
131	25.7	69.6	104.4#

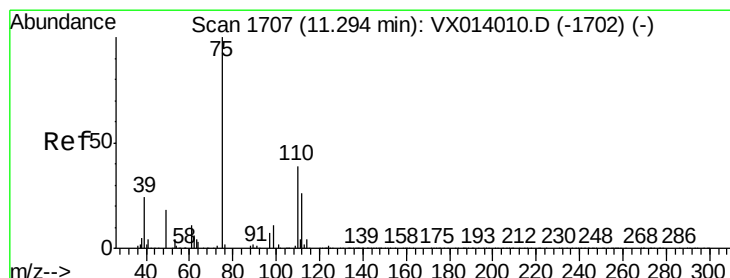
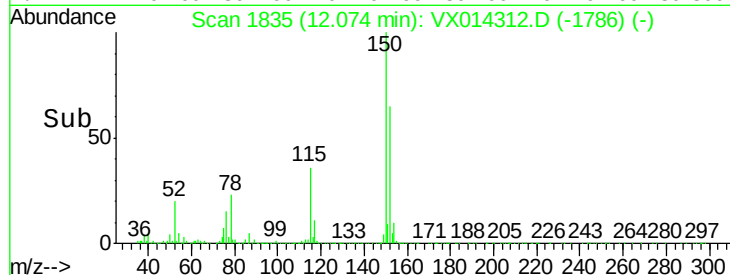
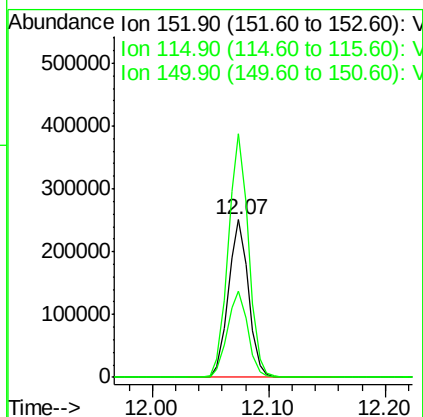
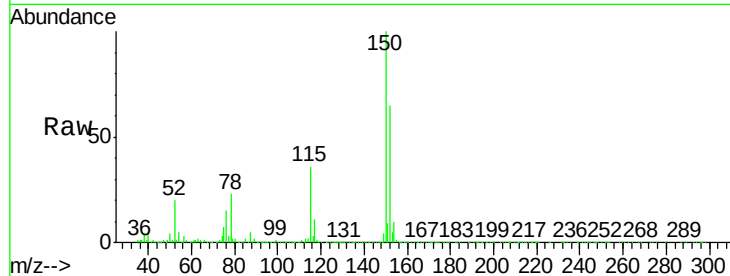




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX014312.D
 Acq: 27 Dec 2019 16:31

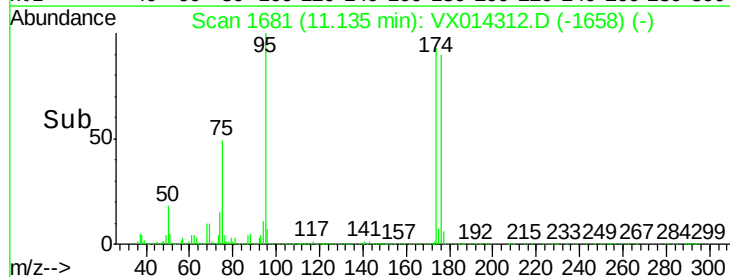
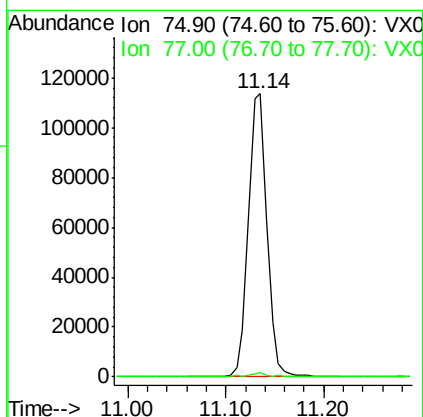
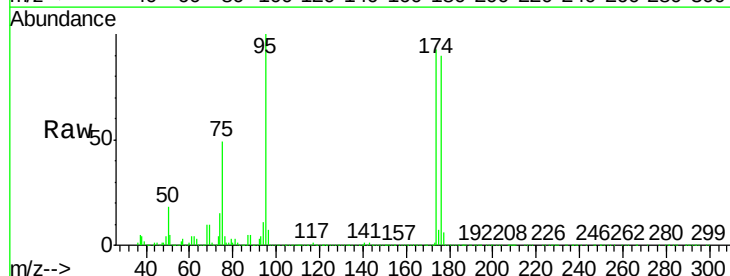
Instrument :
 MSVOA_X
 ClientSampled :
 GW-3

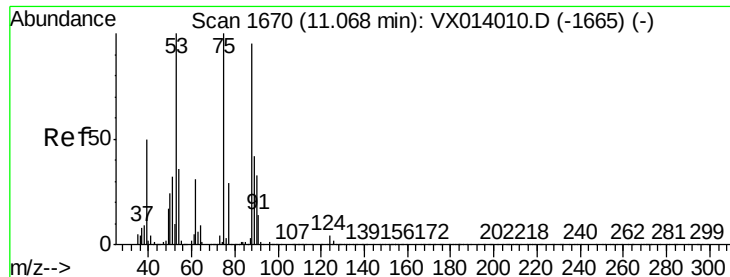
Tgt Ion: 152 Resp: 299480
 Ion Ratio Lower Upper
 152 100
 115 55.5 38.3 114.9
 150 156.1 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 23.158 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX014312.D
 Acq: 27 Dec 2019 16:31

Tgt Ion: 75 Resp: 150566
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.3 57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.364 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

GW-3

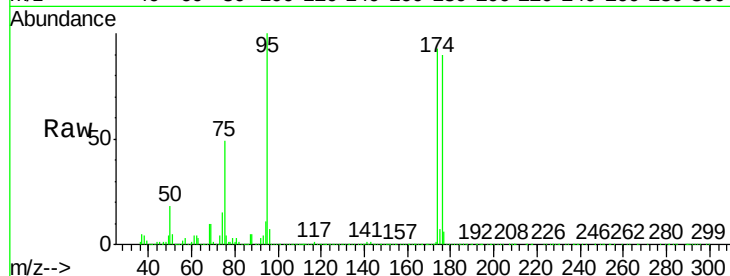
Tgt Ion: 75 Resp: 150566

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

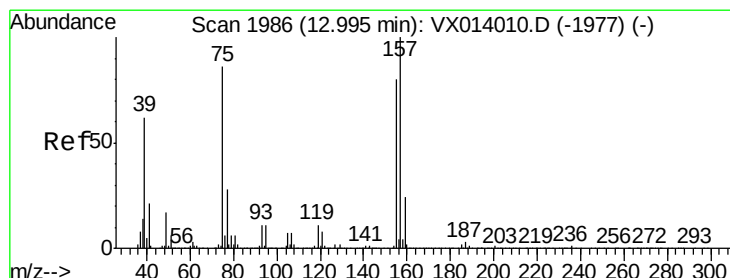
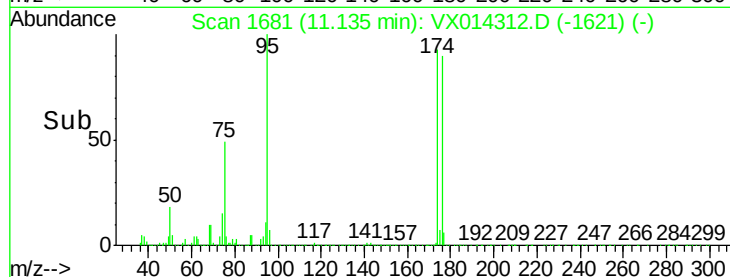
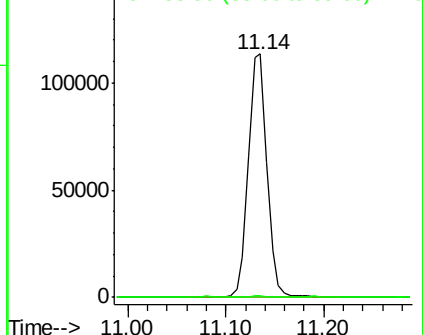
89 0.0 34.6 51.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.412 ug/l

RT: 12.98 min Scan# 1983

Delta R.T. -0.02 min

Lab File: VX014312.D

Acq: 27 Dec 2019 16:31

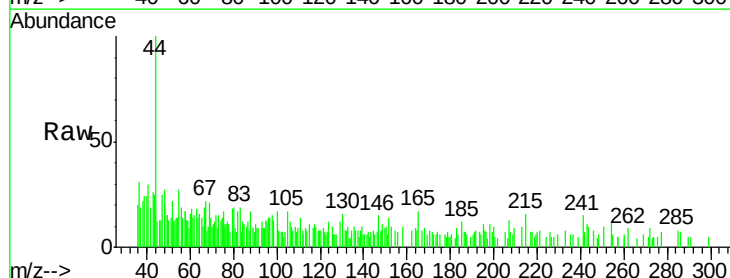
Tgt Ion: 75 Resp: 666

Ion Ratio Lower Upper

75 100

155 12.9 46.9 140.6#

157 13.5 60.8 182.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

