

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\
 Data File : VX013111.D
 Acq On : 17 Oct 2019 16:44
 Operator : JC/SP
 Sample : K5406-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Oct 18 08:04:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177046	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280932	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	234387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92372	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	106048	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
35) Dibromofluoromethane	5.49	113	81958	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
50) Toluene-d8	8.71	98	321672	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	11.14	95	102819	42.08	ug/l	0.00
Spiked Amount			Recovery	=	84.16%	

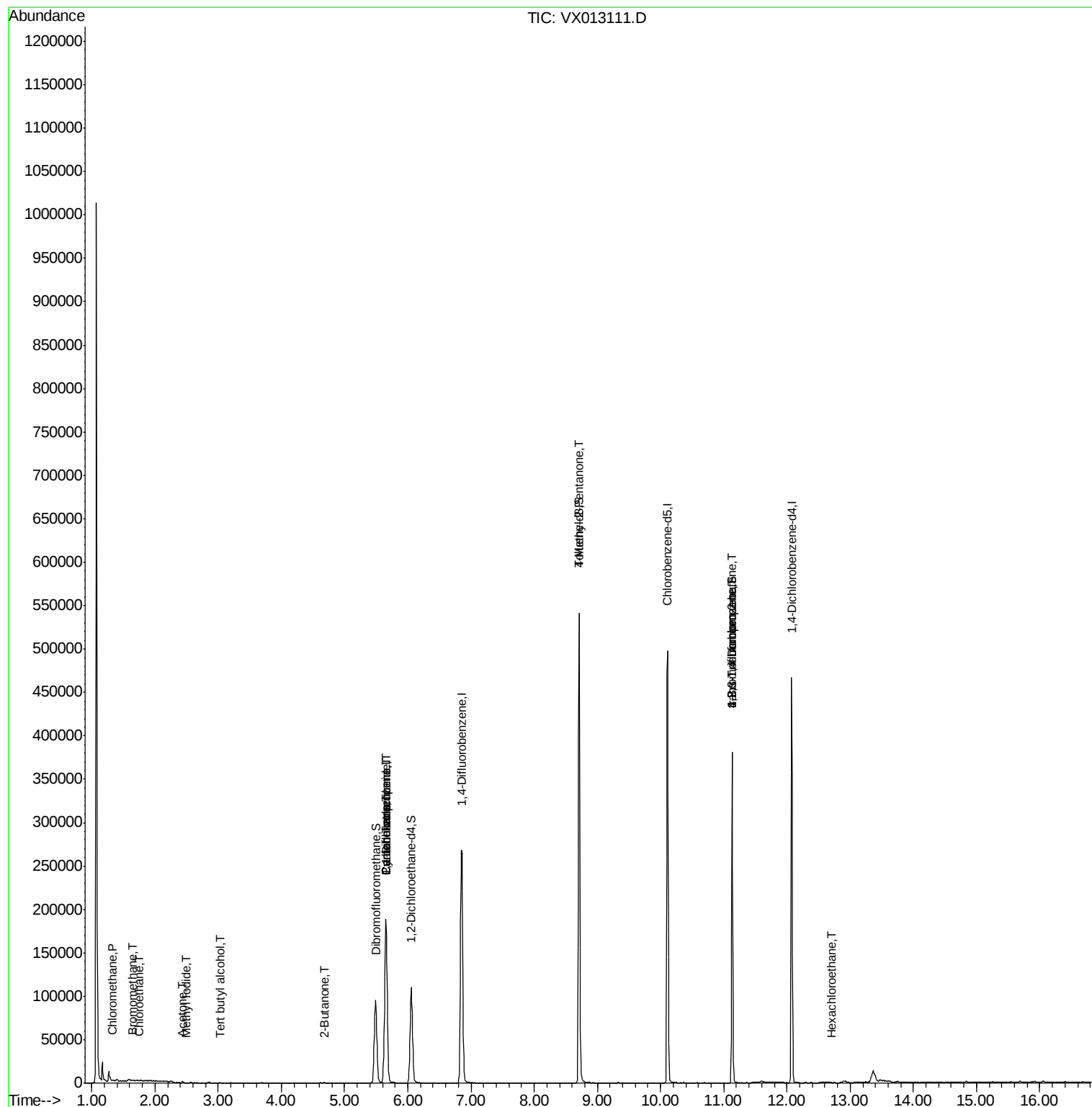
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	443	0.226	ug/l	92
5) Bromomethane	1.64	94	276	0.328	ug/l #	72
6) Chloroethane	1.75	64	75	0.428	ug/l #	43
10) Methyl Iodide	2.50	142	55	5.106	ug/l #	40
11) Tert butyl alcohol	3.03	59	350	0.597	ug/l #	72
16) Acetone	2.43	43	1474	1.264	ug/l #	82
25) 2-Butanone	4.69	43	476	0.294	ug/l #	49
31) Cyclohexane	5.65	56	3574	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13230	5.356	ug/l #	50
38) Carbon Tetrachloride	5.65	117	17228	7.166	ug/l #	18
51) 4-Methyl-2-Pentanone	8.71	43	1333	0.482	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	53749	26.234	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	53749	66.035	ug/l #	10
90) Hexachloroethane	12.70	117	92	2.198	ug/l #	13

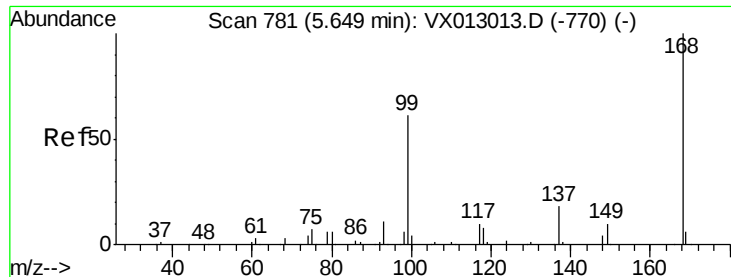
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 16 07:26:22 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

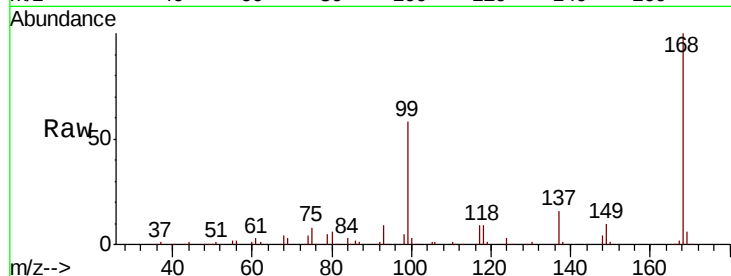
MW-3

Tot Ion:168 Resp: 177046

Ion Ratio Lower Upper

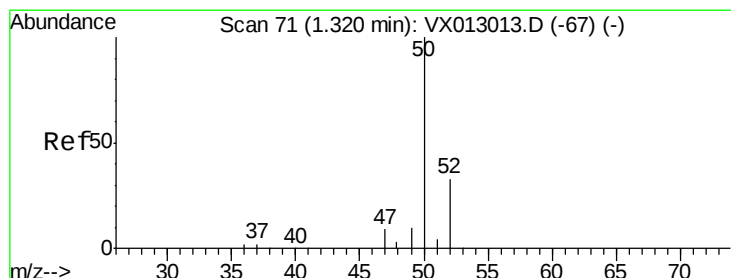
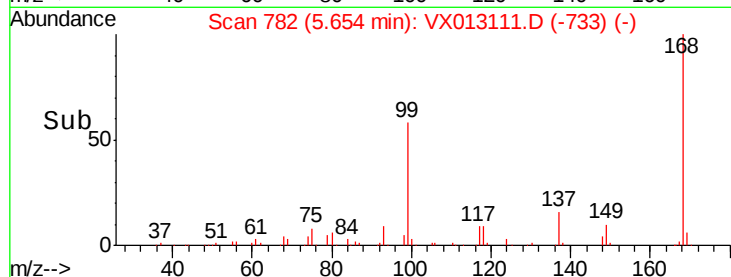
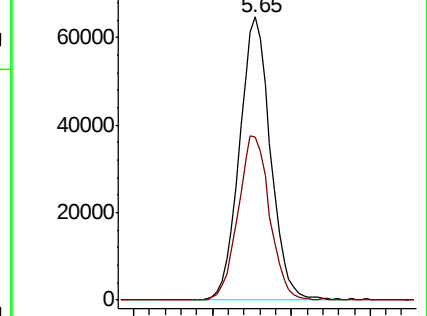
168 100

99 57.8 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013111.D

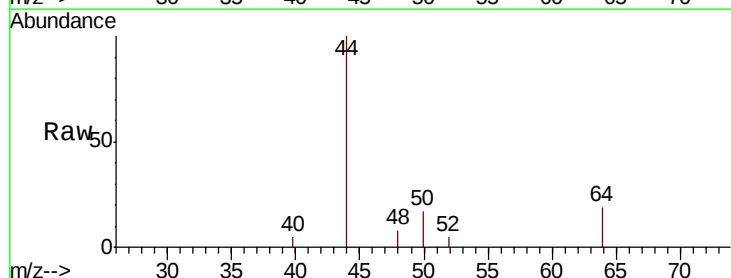
Acq: 17 Oct 2019 16:44

Tgt Ion: 50 Resp: 443

Ion Ratio Lower Upper

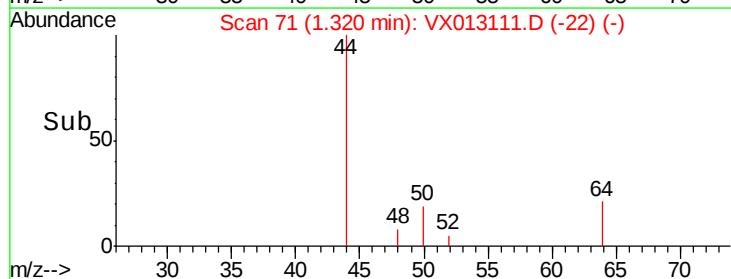
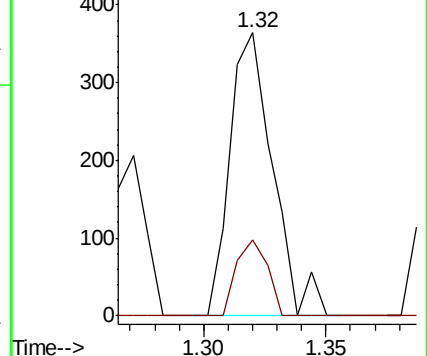
50 100

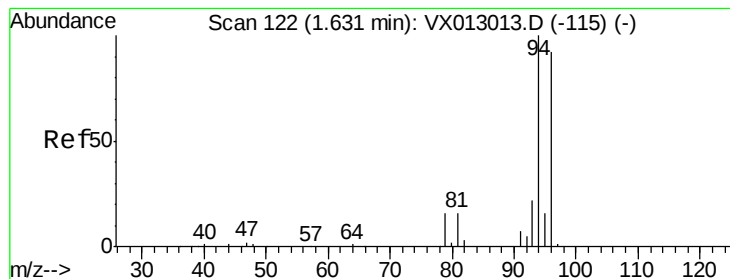
52 26.9 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.328 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

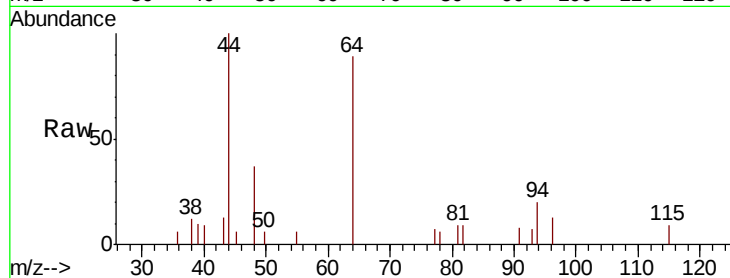
MW-3

Tot Ion: 94 Resp: 276

Ion Ratio Lower Upper

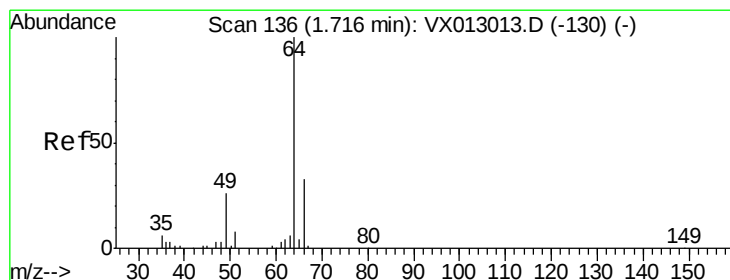
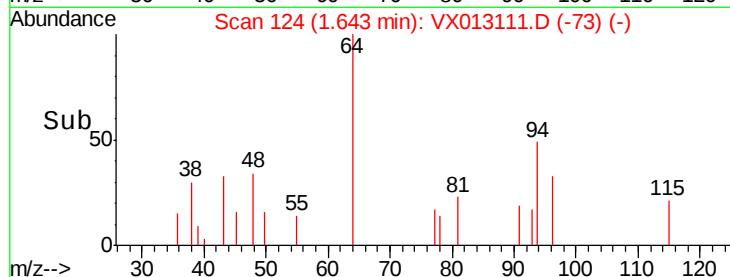
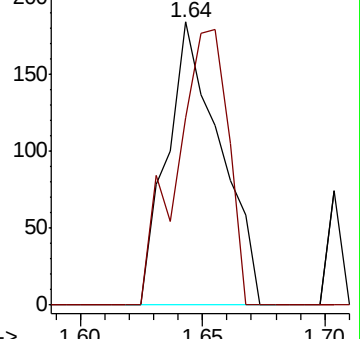
94 100

96 66.3 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.428 ug/l

RT: 1.75 min Scan# 141

Delta R.T. 0.04 min

Lab File: VX013111.D

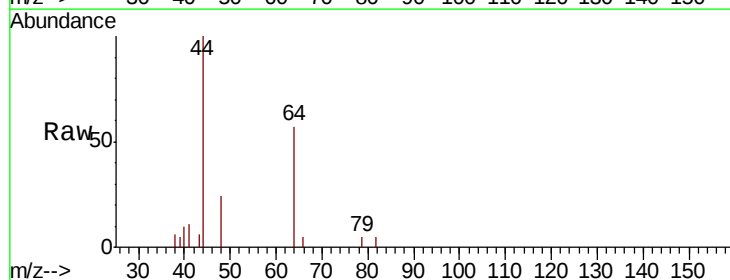
Acq: 17 Oct 2019 16:44

Tgt Ion: 64 Resp: 75

Ion Ratio Lower Upper

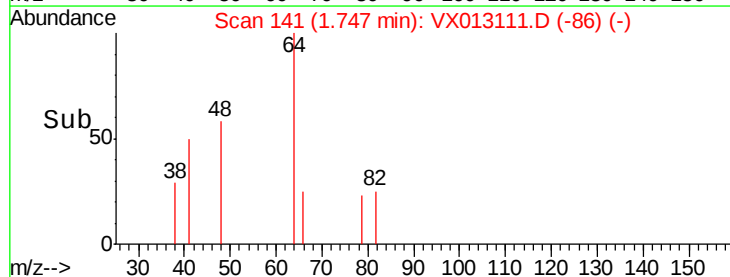
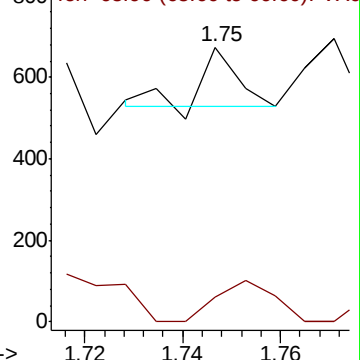
64 100

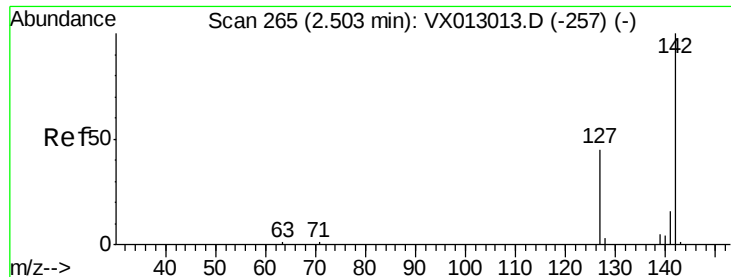
66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

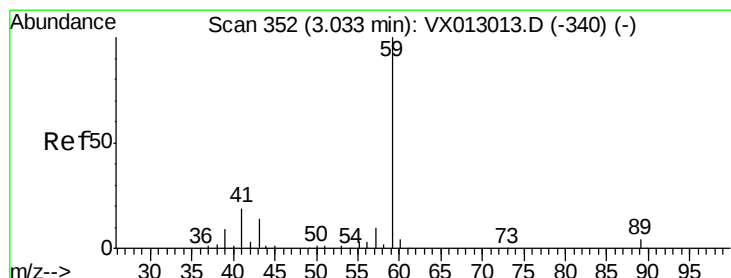
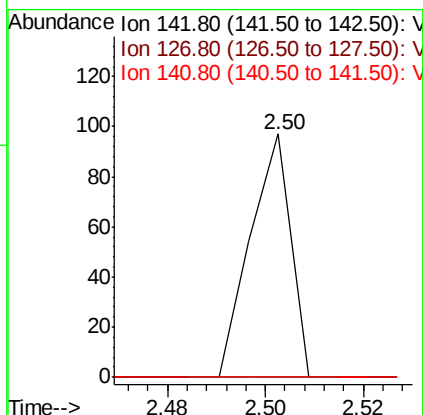
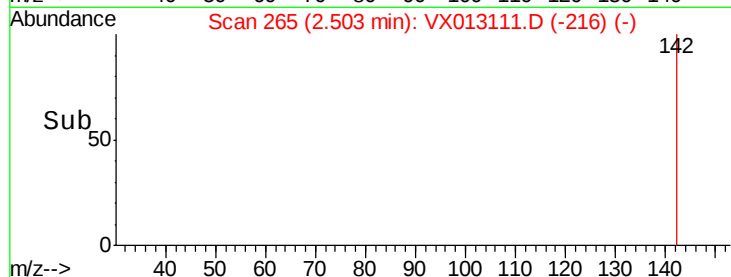
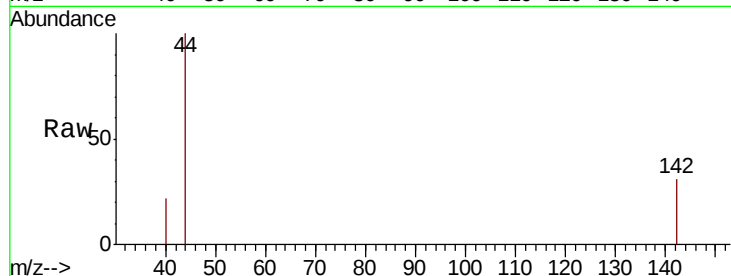




#10
Methvl Iodide
Concen: 5.106 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.00 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

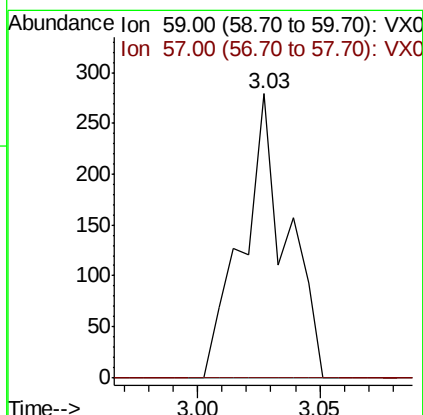
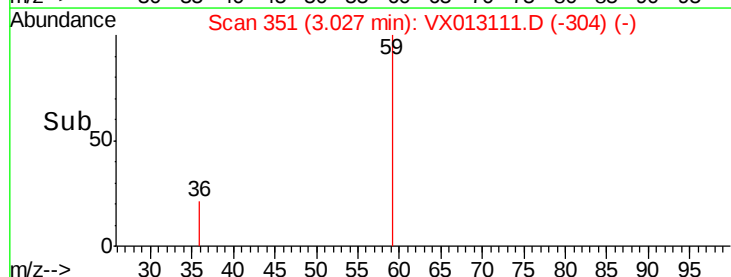
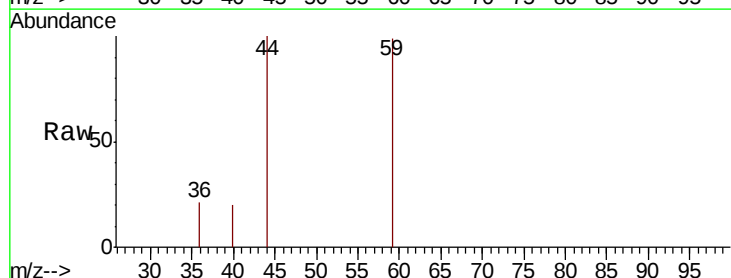
Instrument :
MSVOA_X
ClientSampleId :
MW-3

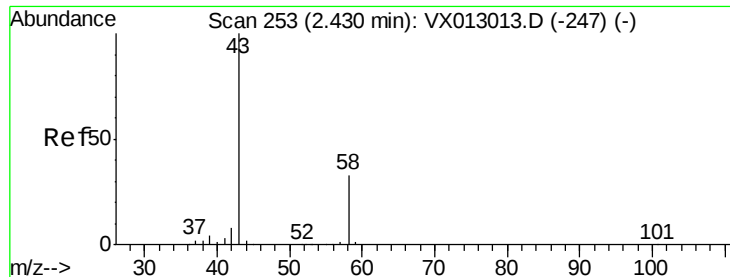
Tot Ion:142 Resp: 55
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.597 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

Tgt Ion: 59 Resp: 350
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 1.264 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

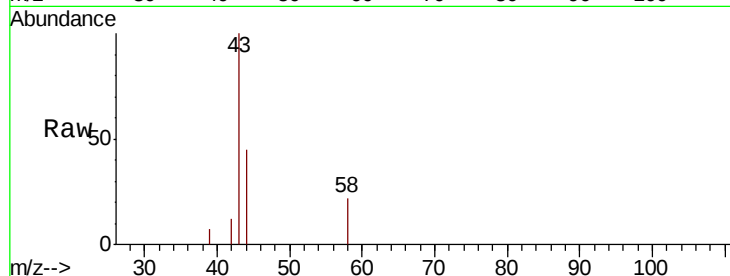
MW-3

Tot Ion: 43 Resp: 1474

Ion Ratio Lower Upper

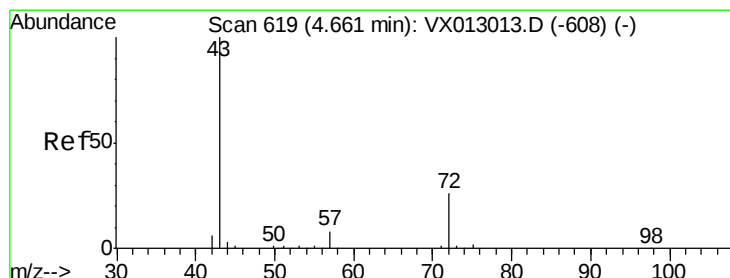
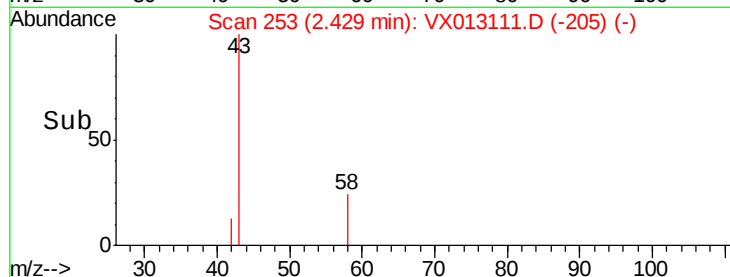
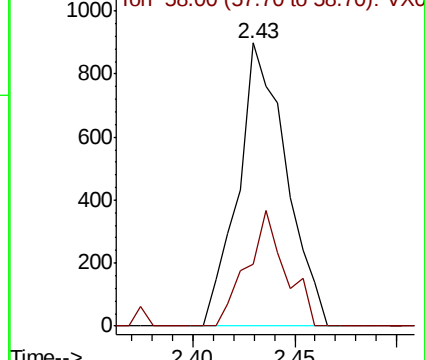
43 100

58 21.7 25.4 38.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.294 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX013111.D

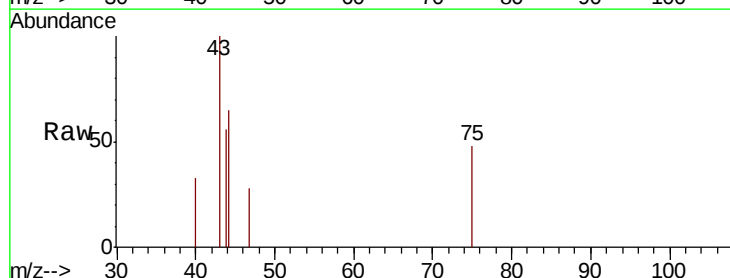
Acq: 17 Oct 2019 16:44

Tgt Ion: 43 Resp: 476

Ion Ratio Lower Upper

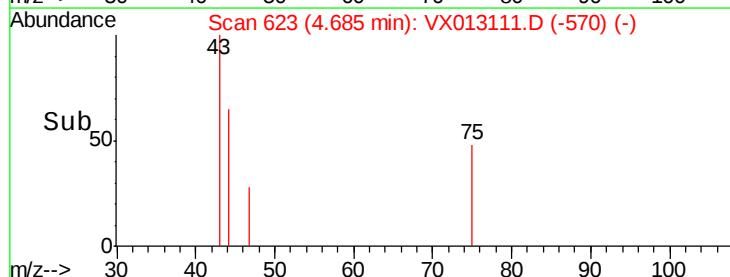
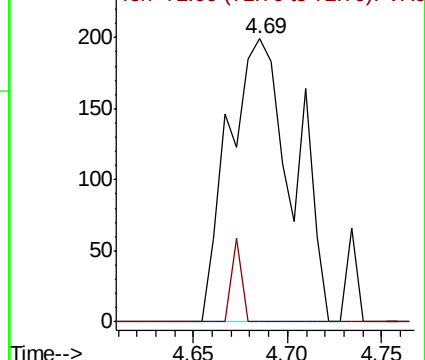
43 100

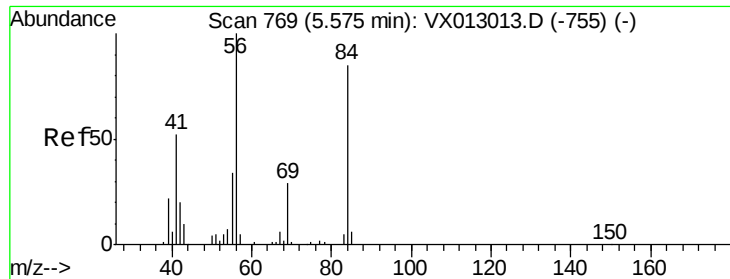
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

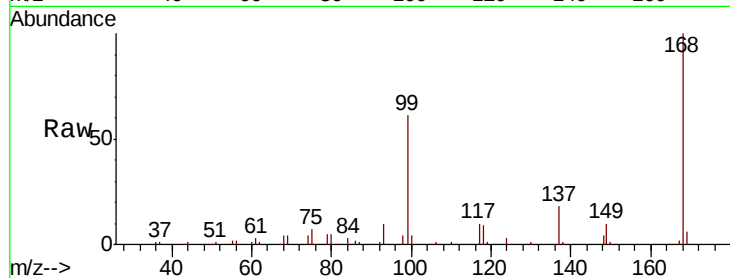




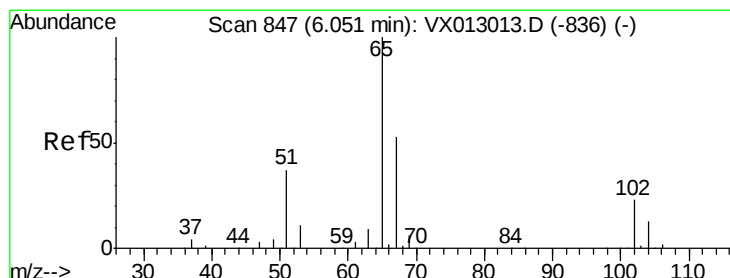
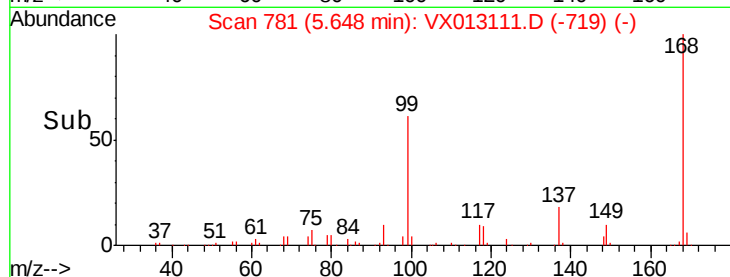
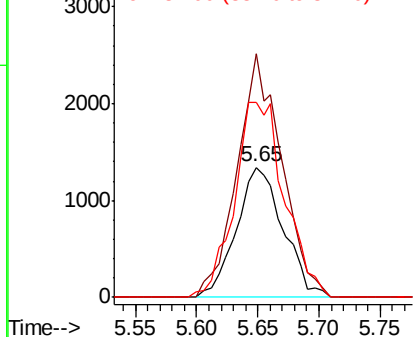
#31
Cyclohexane
Concen: 1.113 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion: 56 Resp: 3574
Ion Ratio Lower Upper
56 100
69 186.8 25.2 37.8#
84 149.5 71.3 106.9#

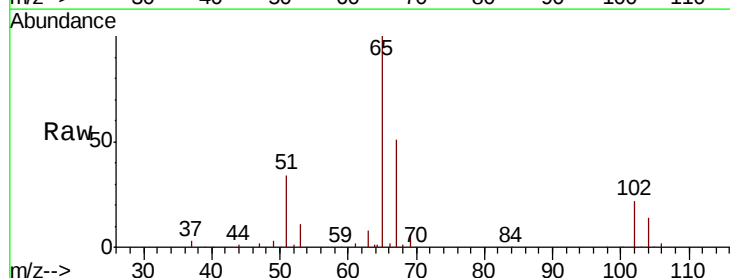


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

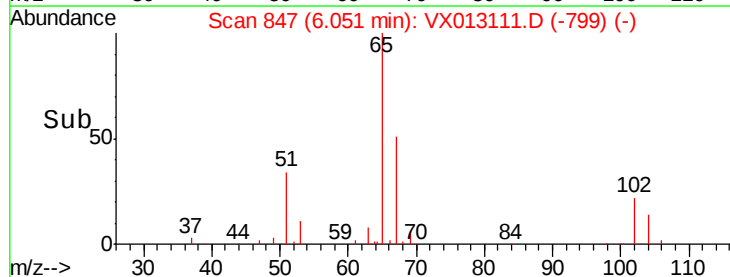
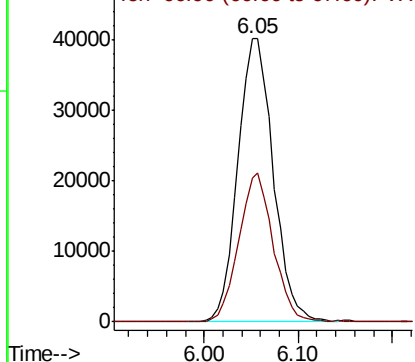


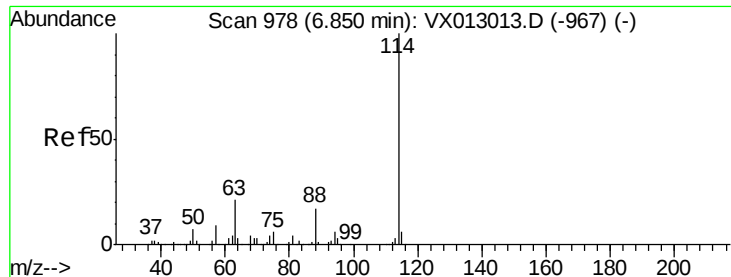
#33
1,2-Dichloroethane-d4
Concen: 47.924 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

Tgt Ion: 65 Resp: 106048
Ion Ratio Lower Upper
65 100
67 51.2 0.0 104.4



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: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

MW-3

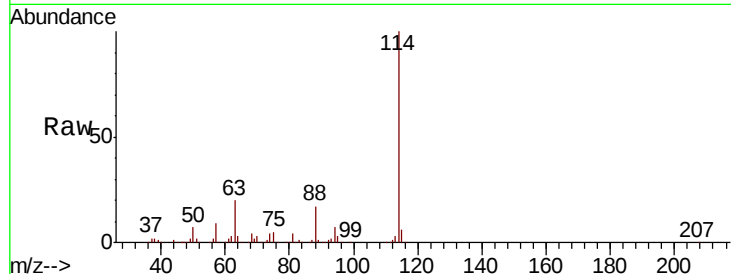
Tot Ion:114 Resp: 280932

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.8

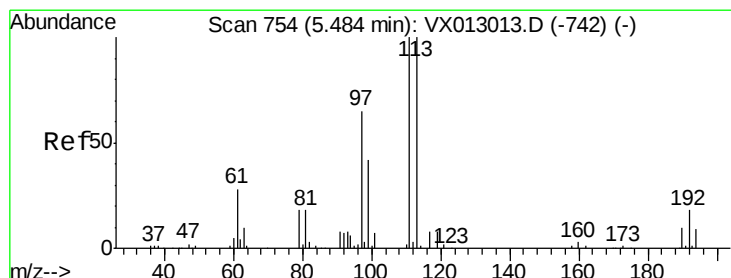
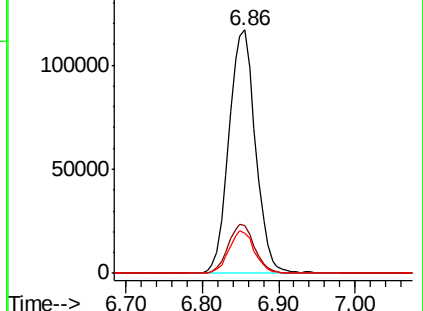
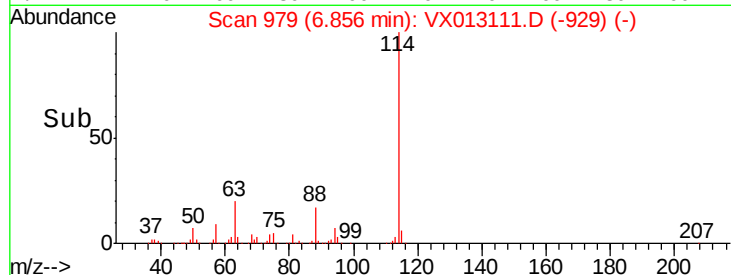
88 16.6 0.0 33.8



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: 50.830 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

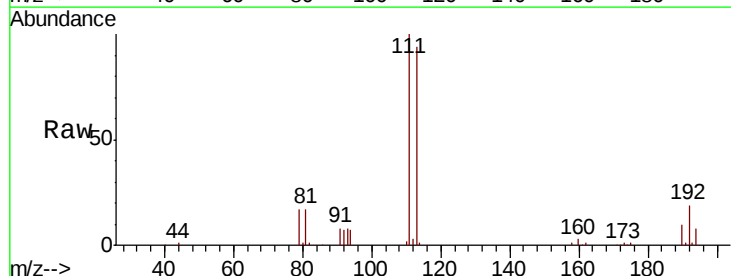
Tgt Ion:113 Resp: 81958

Ion Ratio Lower Upper

113 100

111 103.9 83.2 124.8

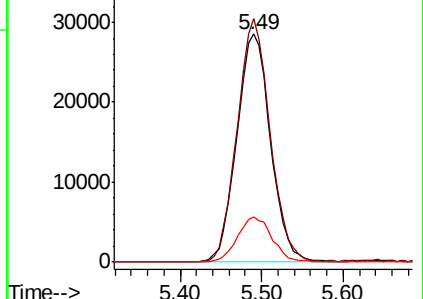
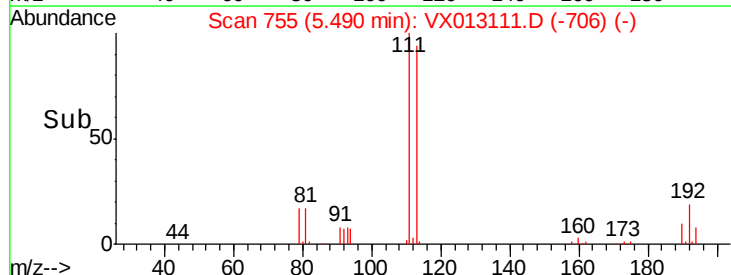
192 20.1 15.4 23.2

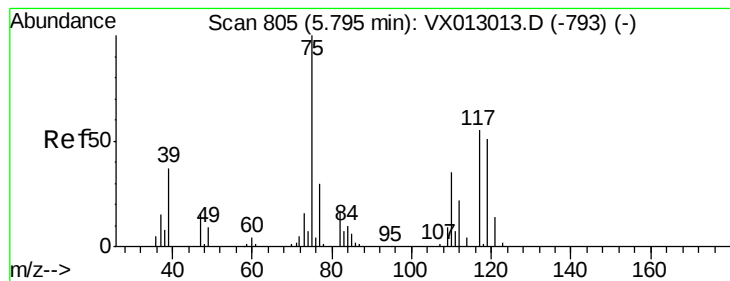


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.356 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

MW-3

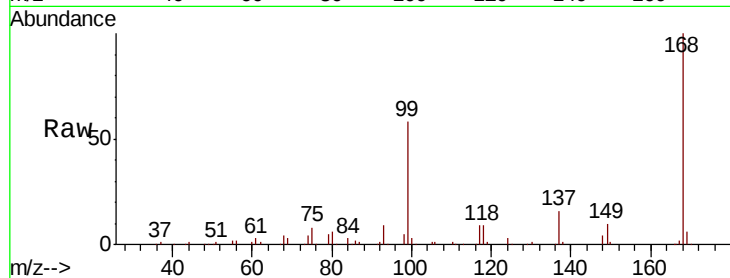
Tot Ion: 75 Resp: 13230

Ion Ratio Lower Upper

75 100

110 9.5 17.6 52.9#

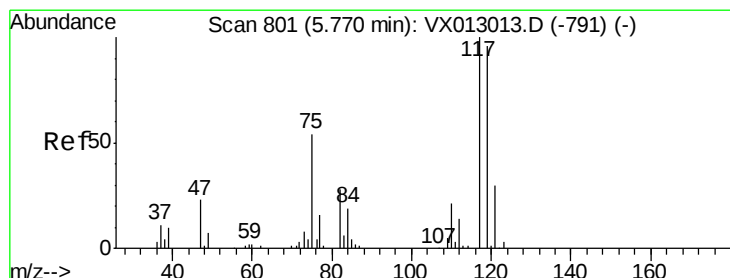
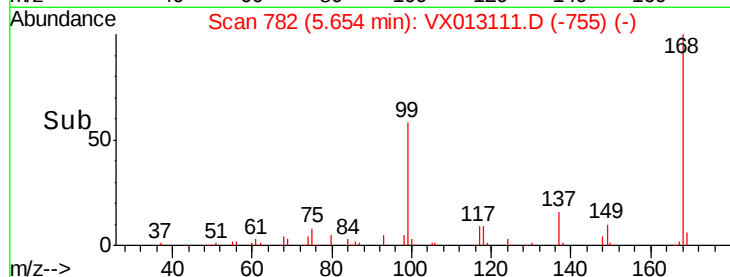
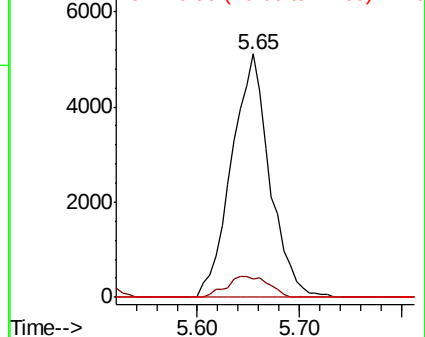
77 0.0 24.4 36.6#



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: 7.166 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

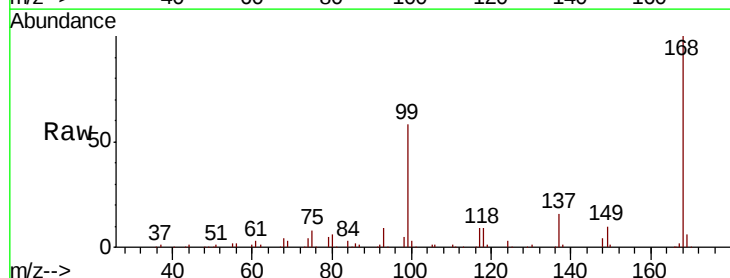
Tgt Ion: 117 Resp: 17228

Ion Ratio Lower Upper

117 100

119 6.6 74.5 111.7#

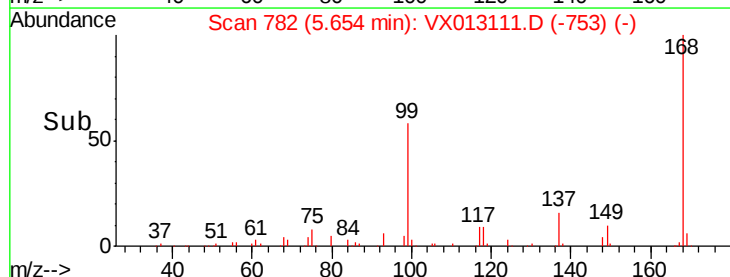
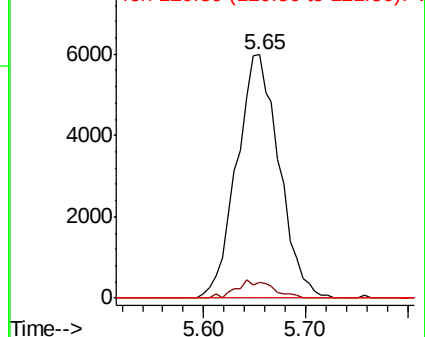
121 0.0 24.2 36.4#

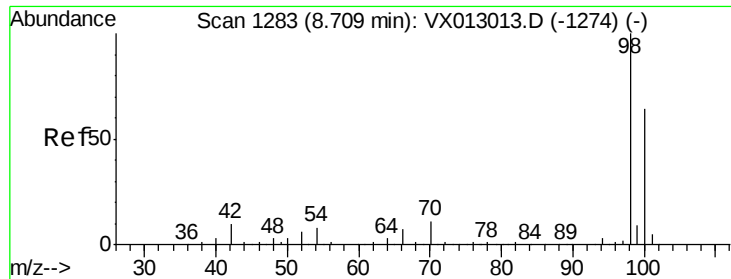


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.150 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

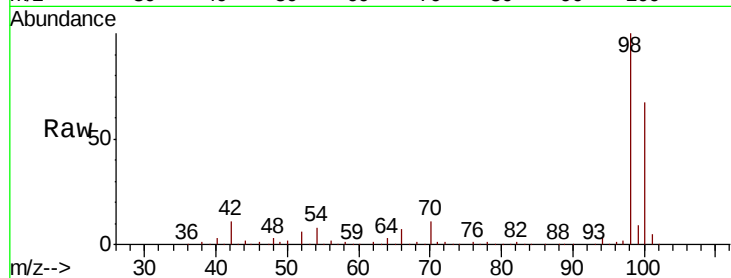
MW-3

Tot Ion: 98 Resp: 321672

Ion Ratio Lower Upper

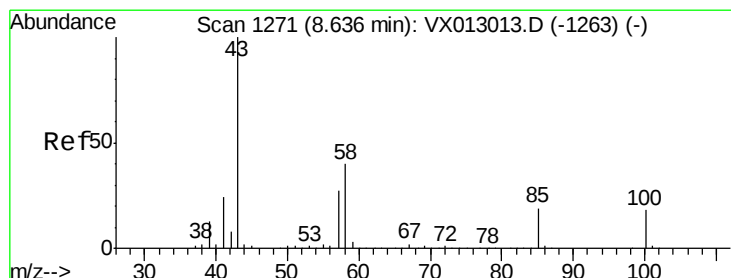
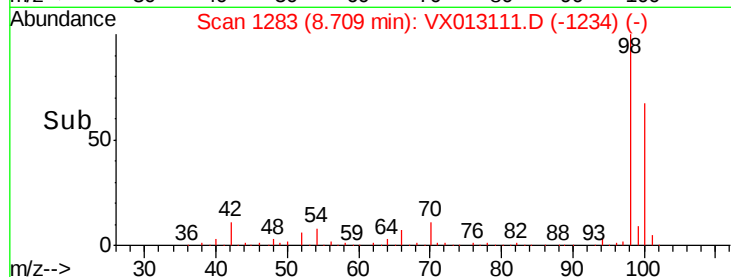
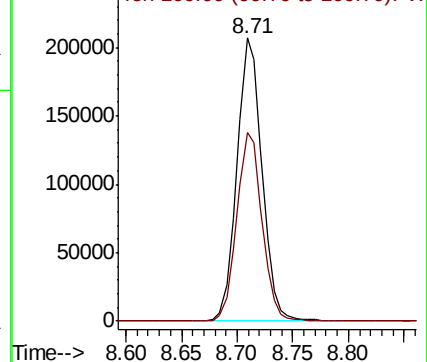
98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013111.D

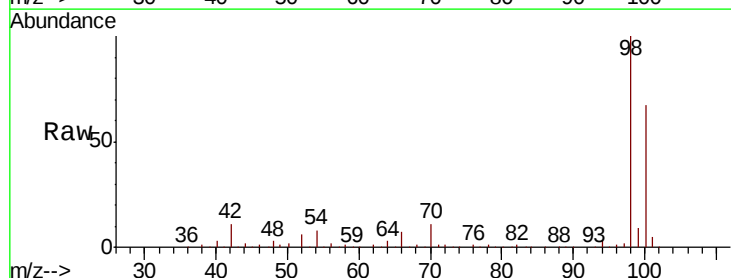
Acq: 17 Oct 2019 16:44

Tgt Ion: 43 Resp: 1333

Ion Ratio Lower Upper

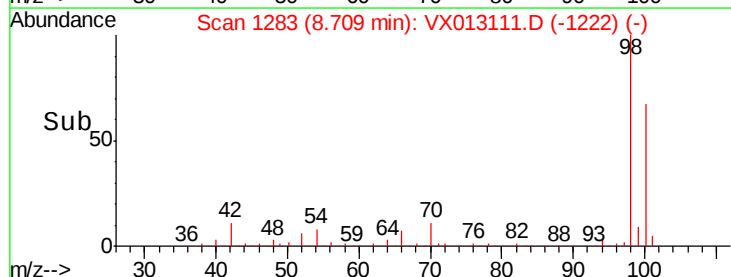
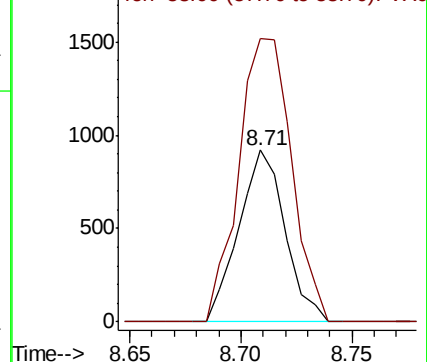
43 100

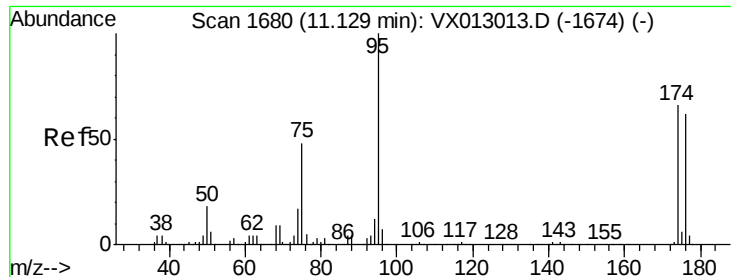
58 188.1 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

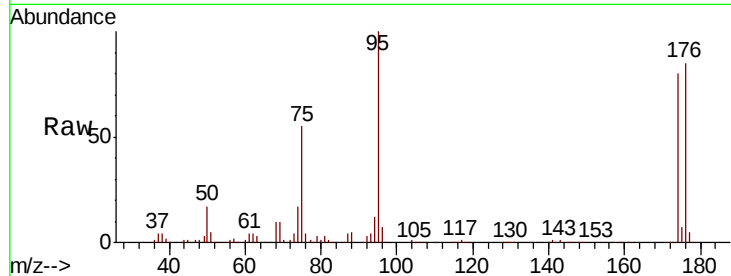




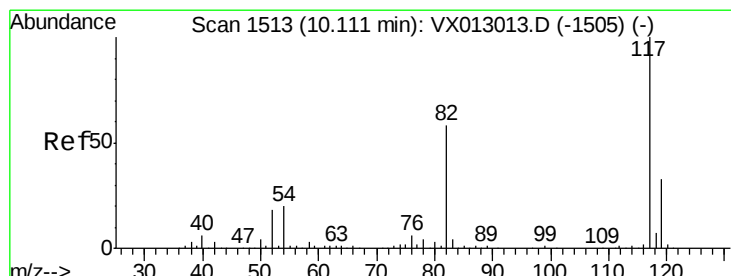
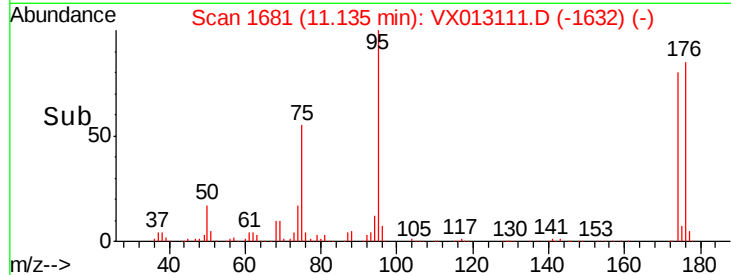
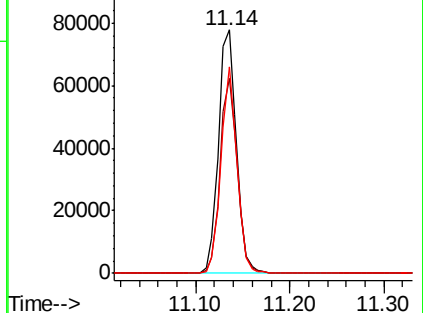
#62
4-Bromofluorobenzene
Concen: 42.078 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

Instrument :
MSVOA_X
ClientSampled :
MW-3

Tot Ion: 95 Resp: 102819
Ion Ratio Lower Upper
95 100
174 76.5 0.0 143.4
176 76.1 0.0 136.0

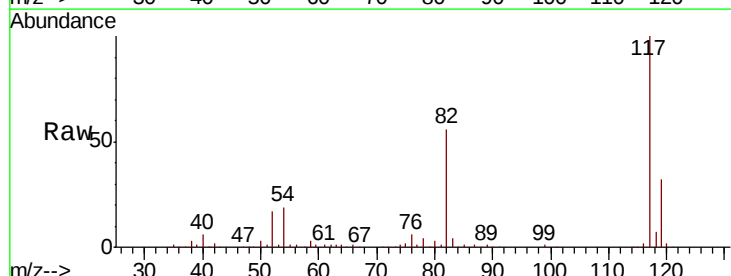


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

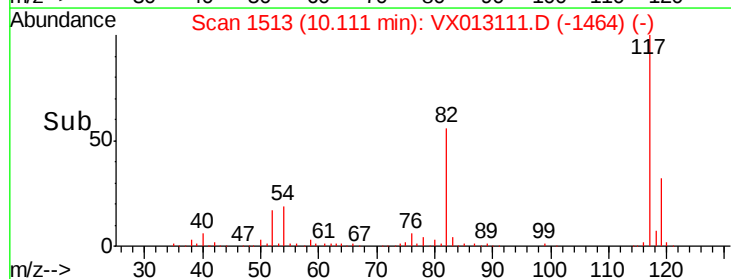
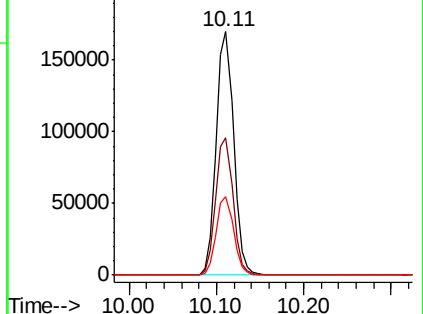


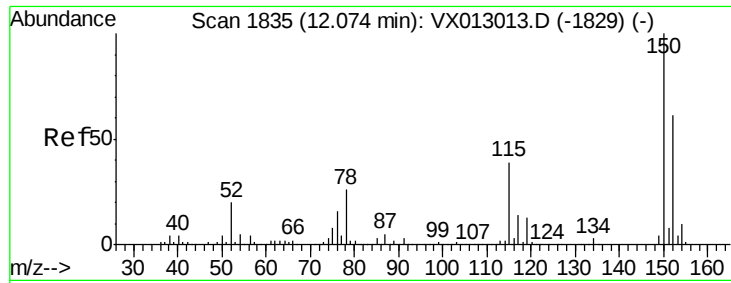
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013111.D
Acq: 17 Oct 2019 16:44

Tgt Ion: 117 Resp: 234387
Ion Ratio Lower Upper
117 100
82 56.3 44.1 66.1
119 32.5 25.8 38.8



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: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

MW-3

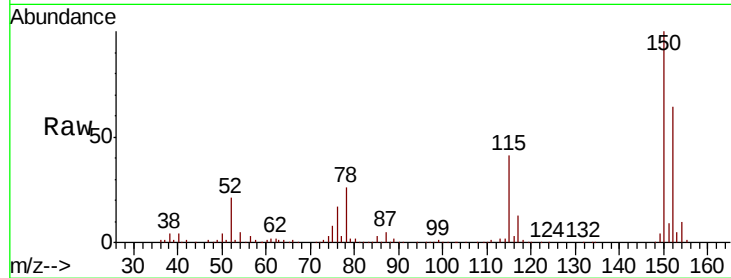
Tot Ion:152 Resp: 92372

Ion Ratio Lower Upper

152 100

115 63.4 44.5 133.5

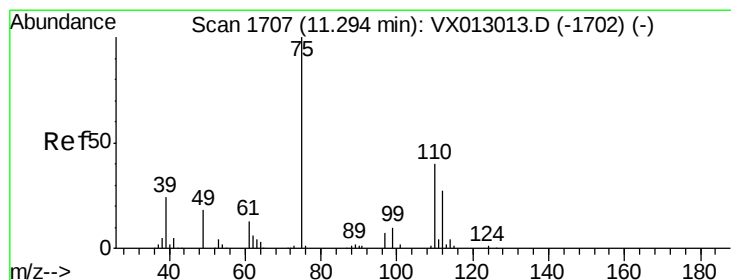
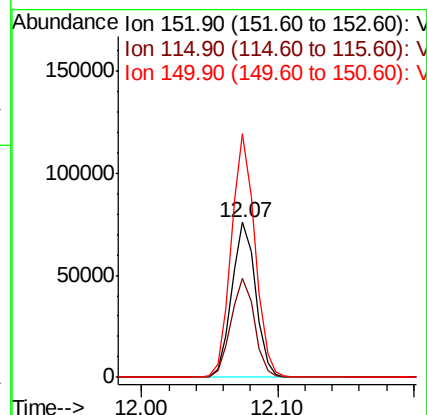
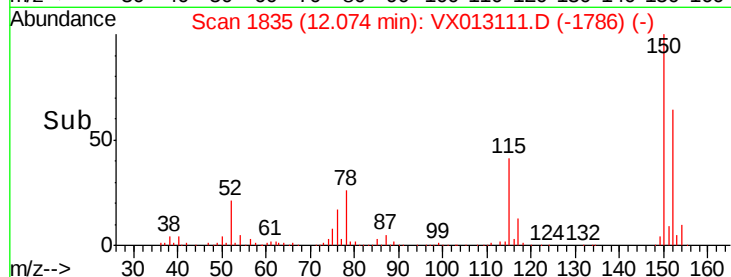
150 156.0 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.234 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013111.D

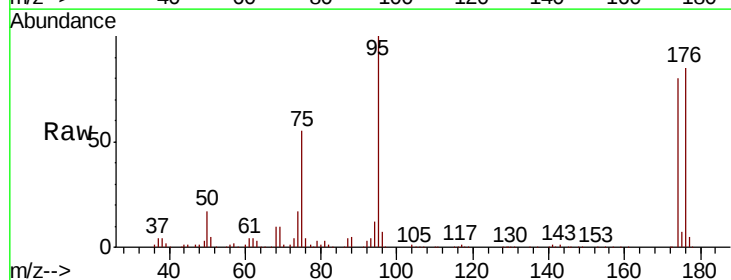
Acq: 17 Oct 2019 16:44

Tgt Ion: 75 Resp: 53749

Ion Ratio Lower Upper

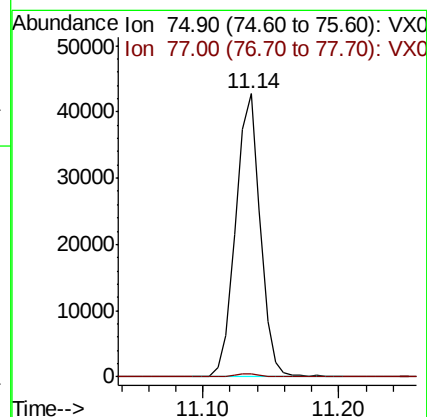
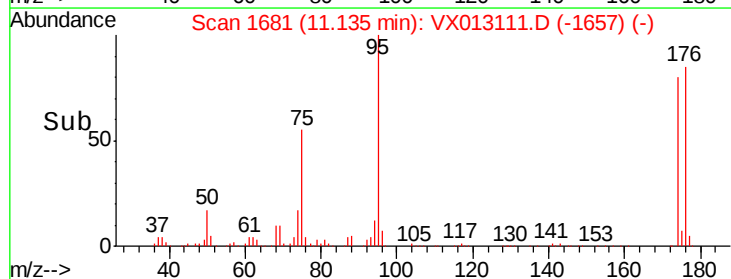
75 100

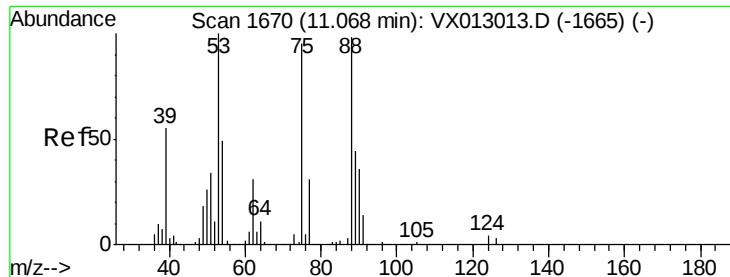
77 1.1 22.9 68.8#



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: 66.035 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013111.D

Acq: 17 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

MW-3

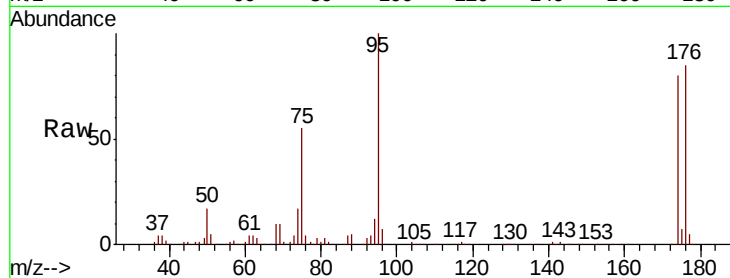
Tot Ion: 75 Resp: 53749

Ion Ratio Lower Upper

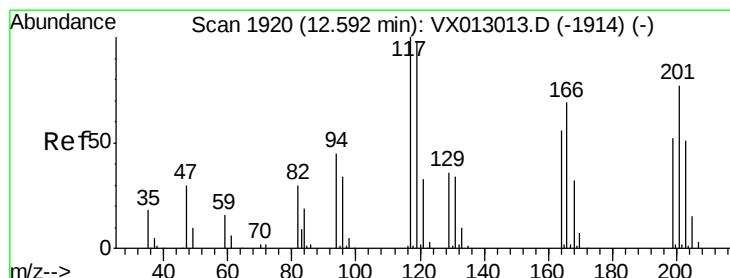
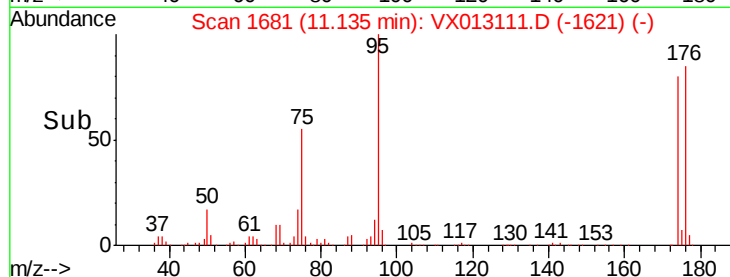
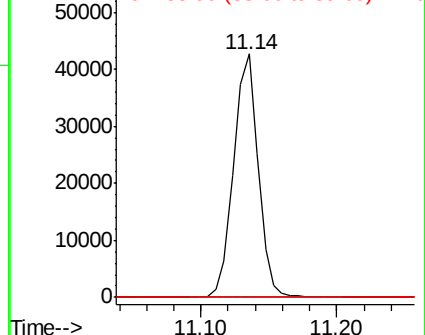
75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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



#90

Hexachloroethane

Concen: 2.198 ug/l

RT: 12.70 min Scan# 1938

Delta R.T. 0.11 min

Lab File: VX013111.D

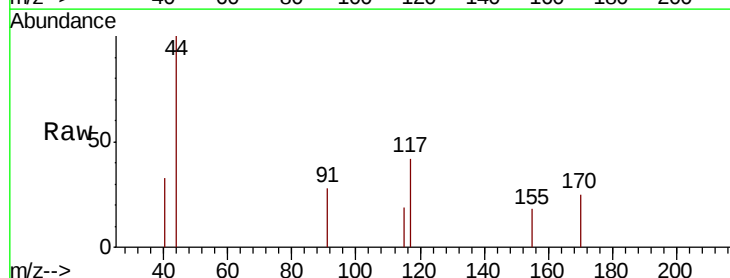
Acq: 17 Oct 2019 16:44

Tgt Ion: 117 Resp: 92

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

