

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012915.D
 Acq On : 09 Oct 2019 02:22
 Operator : JC/SP
 Sample : K5232-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 09 03:47:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	181632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	309181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109021	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	118268	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
35) Dibromofluoromethane	5.48	113	90990	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.71	98	363204	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	11.14	95	128992	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	

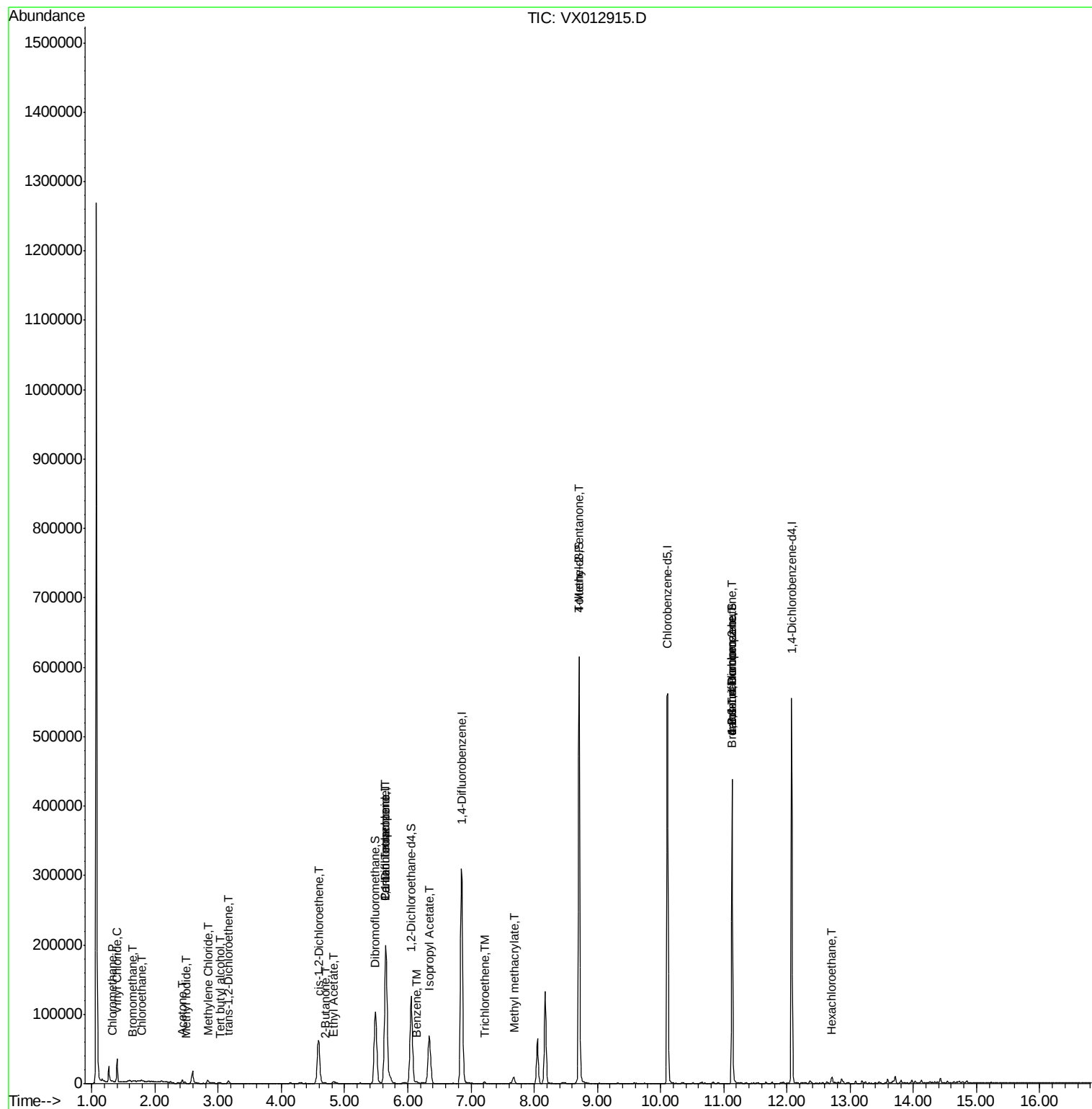
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	564	0.280	ug/l	99
4) Vinyl Chloride	1.40	62	19906	9.572	ug/l	99
5) Bromomethane	1.65	94	346	0.400	ug/l #	58
6) Chloroethane	1.80	64	250	0.563	ug/l #	43
10) Methyl Iodide	2.50	142	19	5.090	ug/l #	40
11) Tert butyl alcohol	3.03	59	1108	1.841	ug/l #	83
16) Acetone	2.43	43	4500	3.761	ug/l	93
20) Methylene Chloride	2.84	84	494	0.225	ug/l #	74
21) trans-1,2-Dichloroethene	3.16	96	1329	0.676	ug/l #	84
25) 2-Butanone	4.69	43	363	0.219	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	40517	17.867	ug/l	89
36) 1,1-Dichloropropene	5.64	75	14801	5.445	ug/l #	50
37) Ethyl Acetate	4.83	43	5585	1.837	ug/l #	80
38) Carbon Tetrachloride	5.65	117	18498	6.991	ug/l #	16
40) Benzene	6.14	78	2687	0.335	ug/l #	88
43) Isopropyl Acetate	6.33	43	17019	3.488	ug/l #	60
44) Trichloroethene	7.21	130	1063	0.477	ug/l	80
48) Methyl methacrylate	7.68	41	2651	1.115	ug/l #	37
51) 4-Methyl-2-Pentanone	8.71	43	2110	0.694	ug/l #	1
71) Bromoform	11.12	173	145	3.220	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	63600	26.302	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	63600	66.194	ug/l #	10
90) Hexachloroethane	12.70	117	194	2.261	ug/l #	13

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100819\
Data File : VX012915.D
Acq On : 09 Oct 2019 02:22
Operator : JC/SP
Sample : K5232-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Oct 09 03:47:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

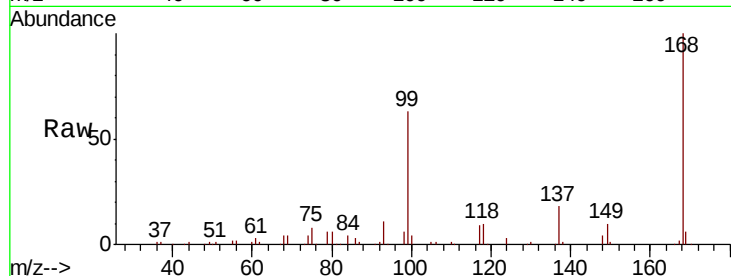
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 181632

Ion Ratio Lower Upper

168 100

99 63.4 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

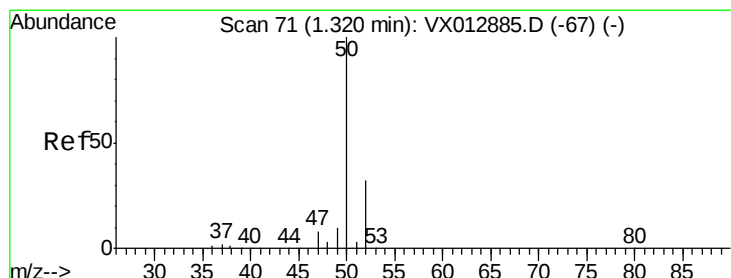
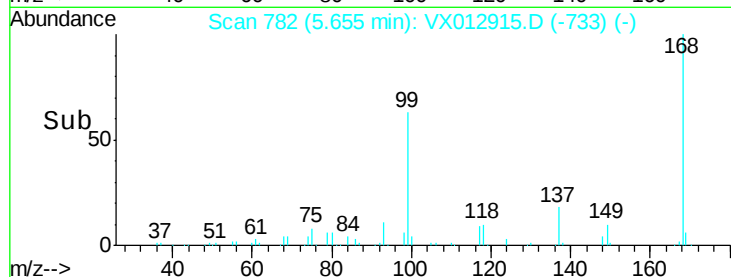
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.280 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012915.D

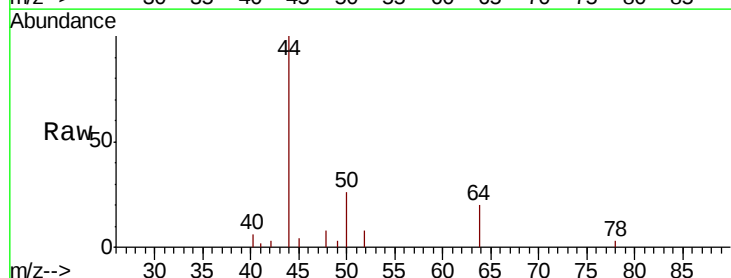
Acq: 09 Oct 2019 02:22

Tgt Ion: 50 Resp: 564

Ion Ratio Lower Upper

50 100

52 32.1 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

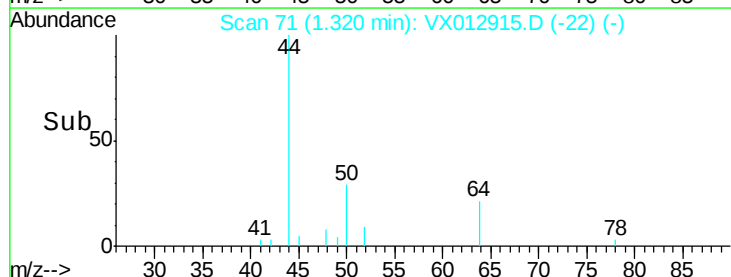
600

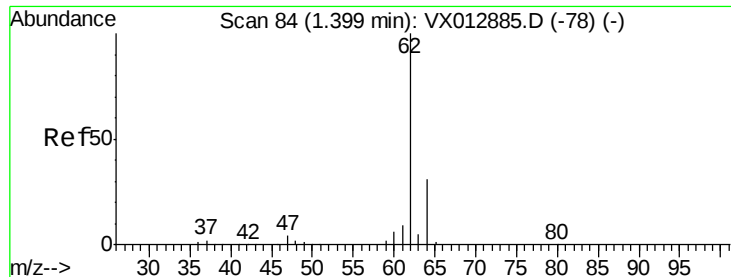
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 9.572 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

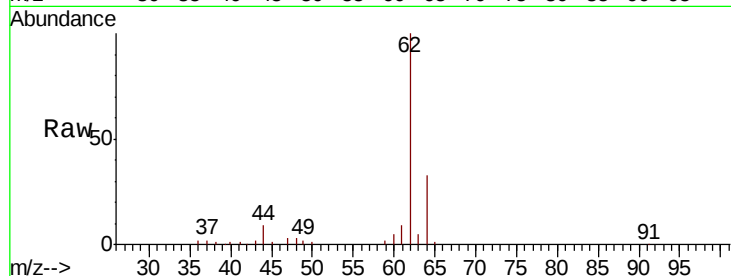
ClientSampleId :

Tot Ion: 62 Resp: 19906

Ion Ratio Lower Upper

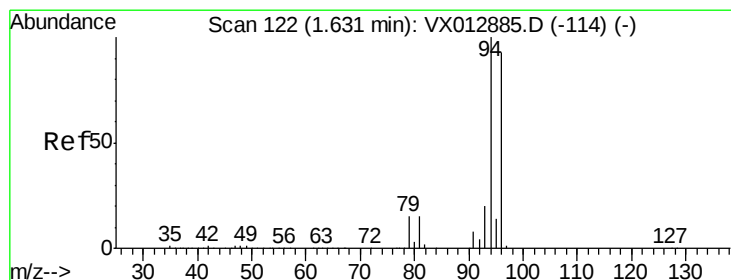
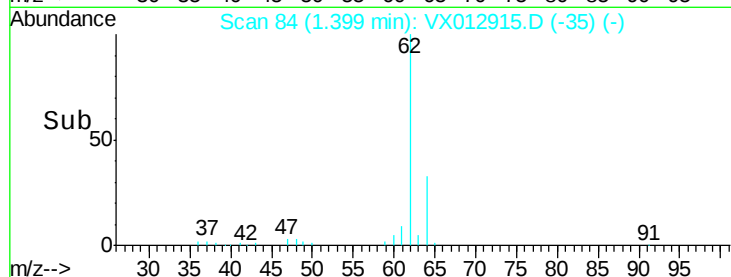
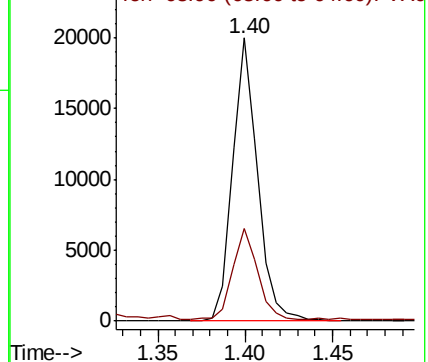
62 100

64 32.0 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.400 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012915.D

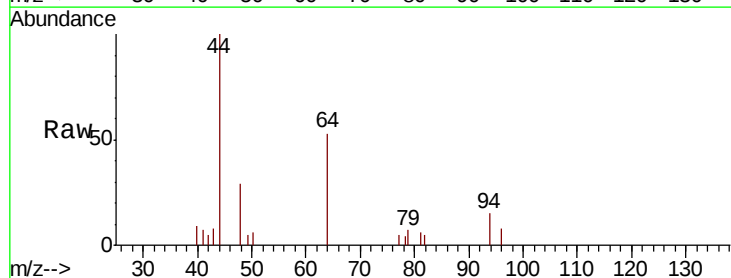
Acq: 09 Oct 2019 02:22

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

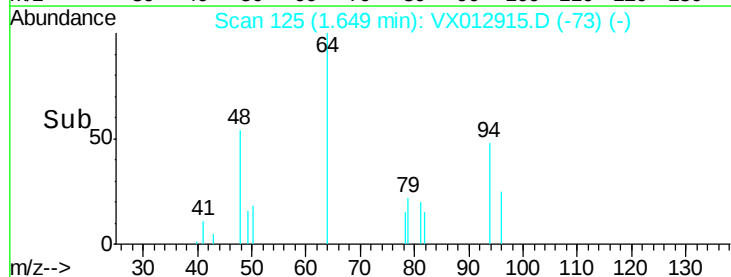
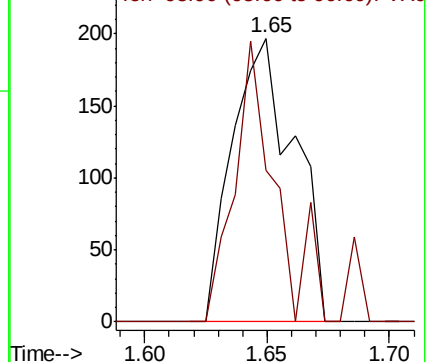
94 100

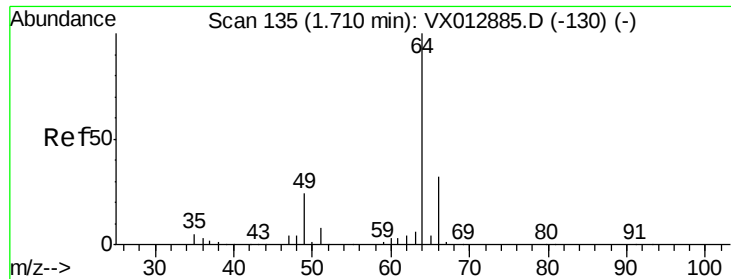
96 53.3 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.563 ug/l

RT: 1.80 min Scan# 149

Delta R.T. 0.09 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

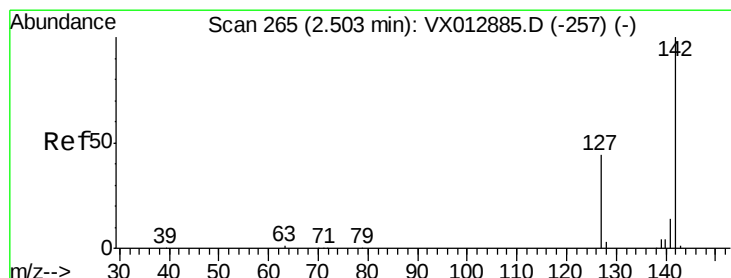
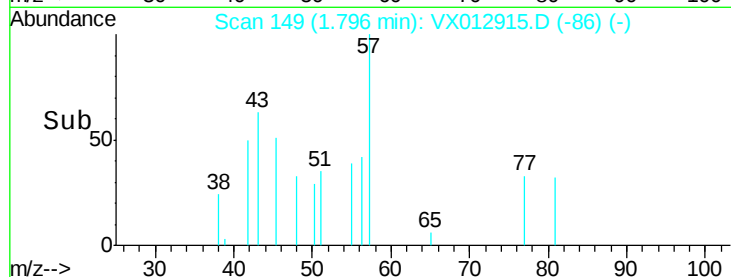
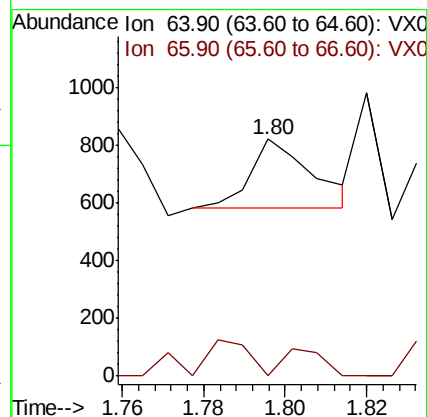
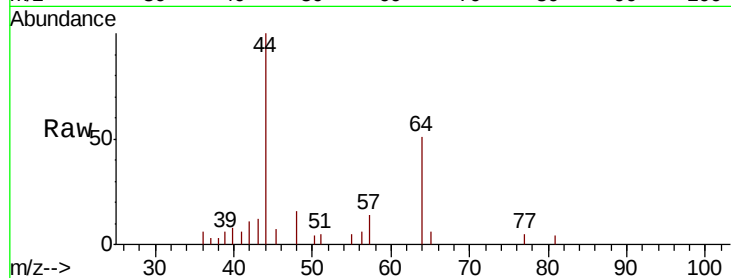
ClientSampled :

Tot Ion: 64 Resp: 250

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.090 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

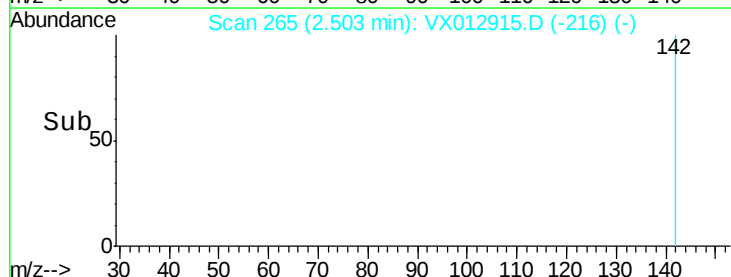
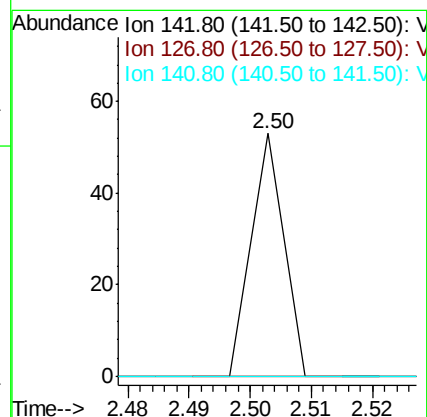
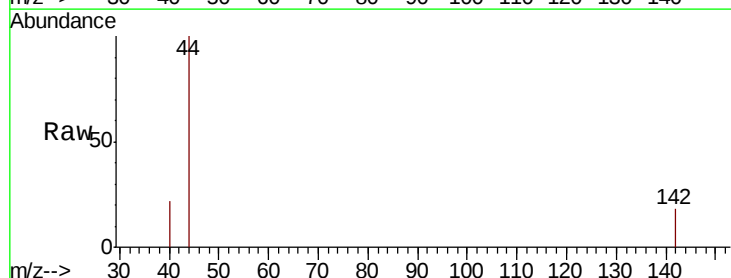
Tgt Ion: 142 Resp: 19

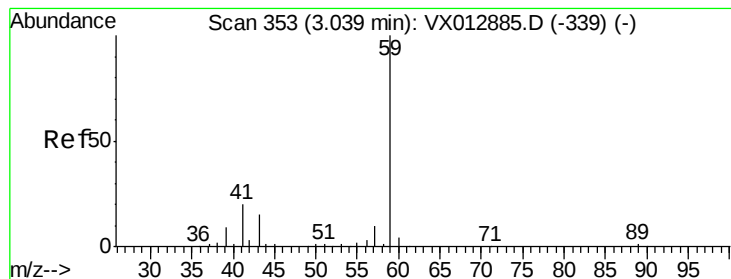
Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#



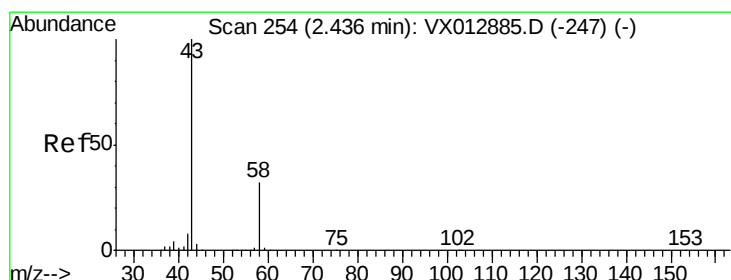
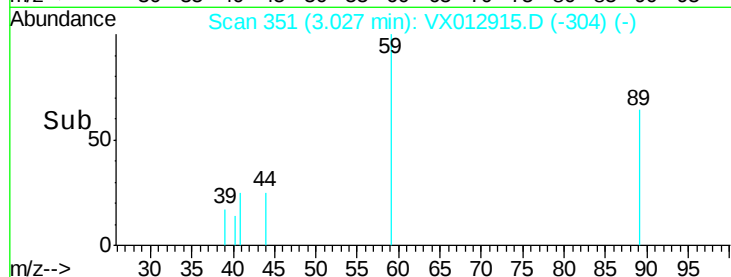
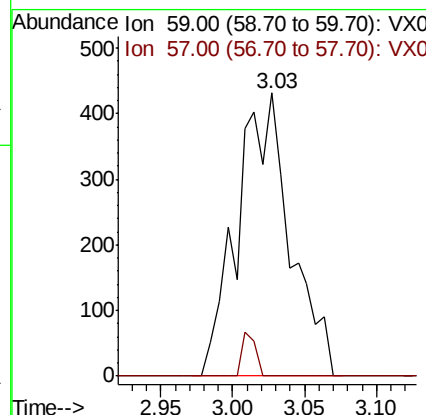
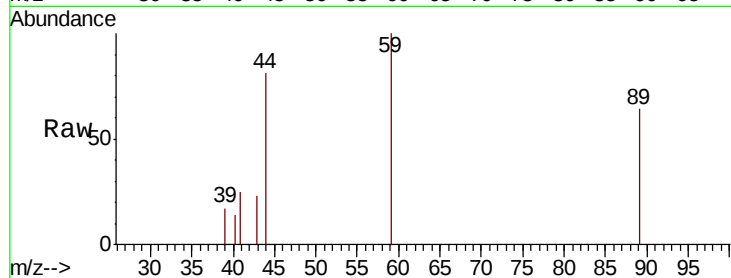


#11

Tert butyl alcohol
 Concen: 1.841 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012915.D
 Acq: 09 Oct 2019 02:22

Instrument :
 MSVOA_X
 ClientSampleId :

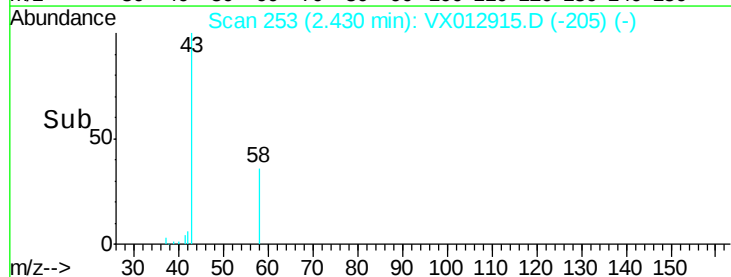
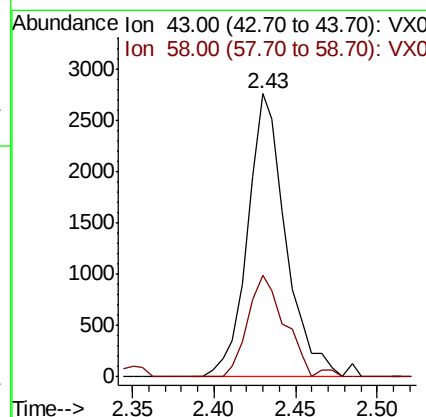
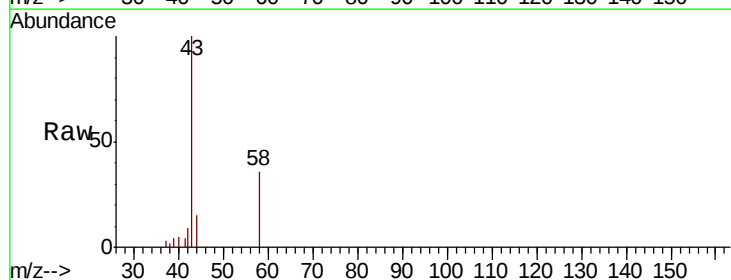
Tot Ion: 59 Resp: 1108
 Ion Ratio Lower Upper
 59 100
 57 4.1 8.3 12.5#

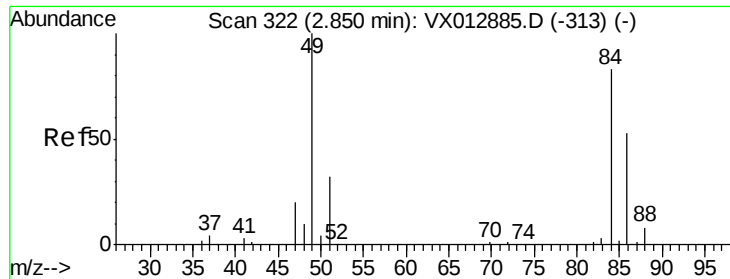


#16

Acetone
 Concen: 3.761 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX012915.D
 Acq: 09 Oct 2019 02:22

Tgt Ion: 43 Resp: 4500
 Ion Ratio Lower Upper
 43 100
 58 35.8 25.4 38.2

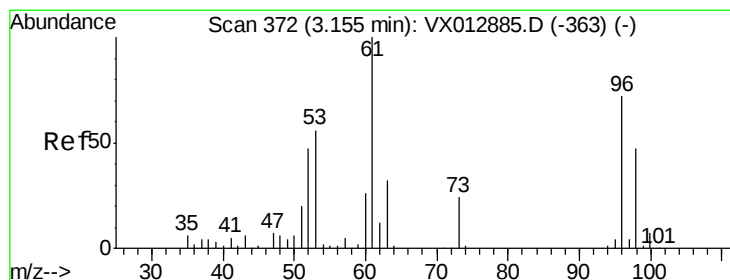
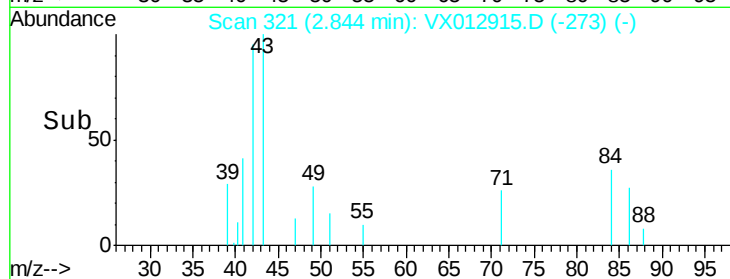
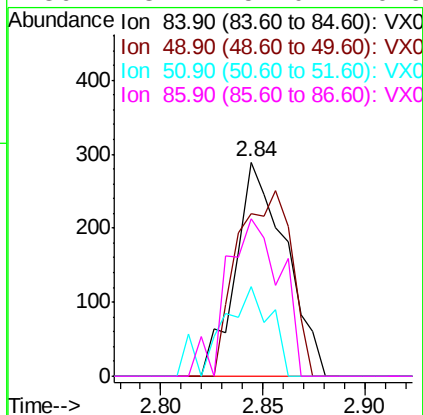
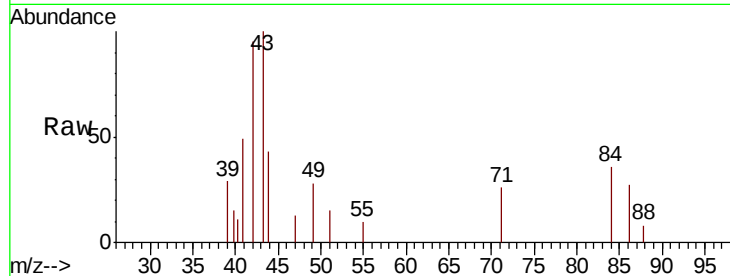




#20
Methvlene Chloride
Concen: 0.225 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

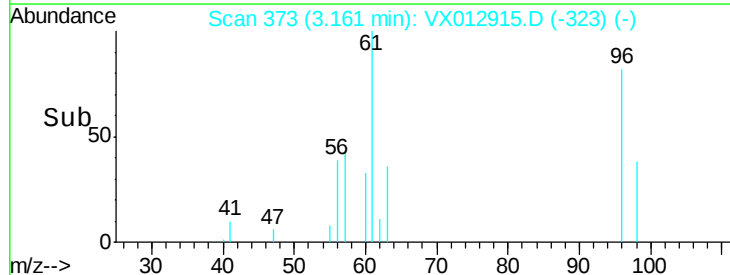
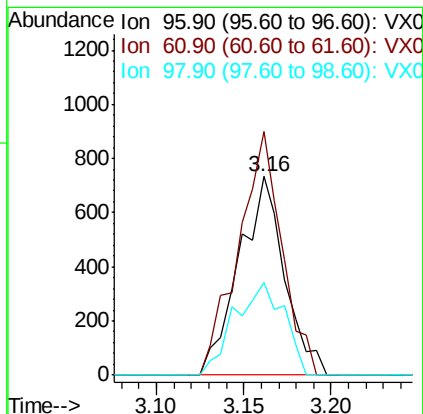
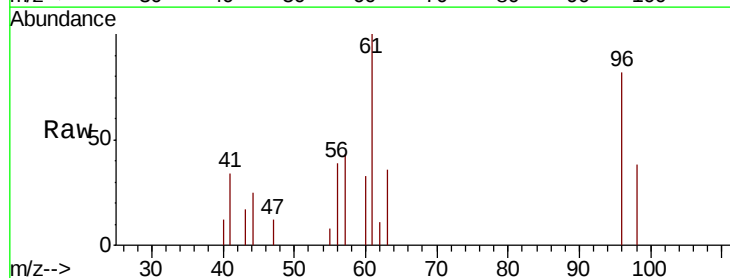
Instrument :
MSVOA_X
ClientSampled :

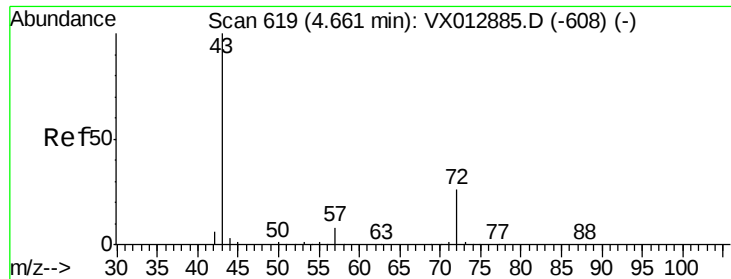
Tot Ion: 84 Resp: 494
Ion Ratio Lower Upper
84 100
49 75.8 96.6 144.8#
51 41.9 30.7 46.1
86 73.7 51.0 76.6



#21
trans-1,2-Dichloroethene
Concen: 0.676 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

Tgt Ion: 96 Resp: 1329
Ion Ratio Lower Upper
96 100
61 122.6 110.4 165.6
98 46.5 51.5 77.3#





#25

2-Butanone

Concen: 0.219 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

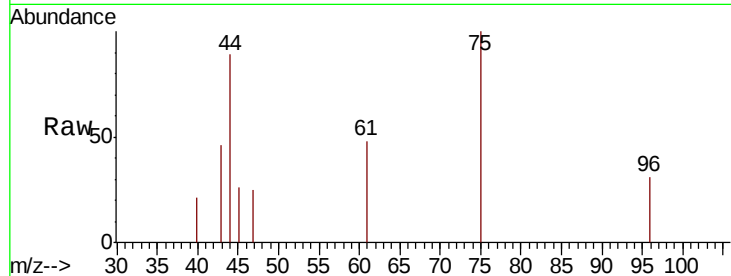
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 363

Ion Ratio Lower Upper

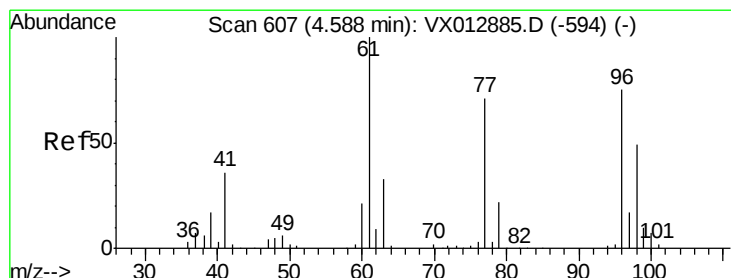
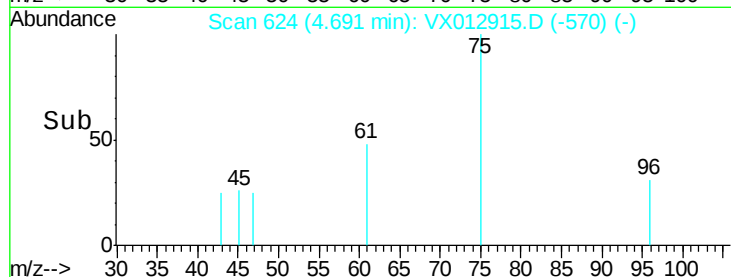
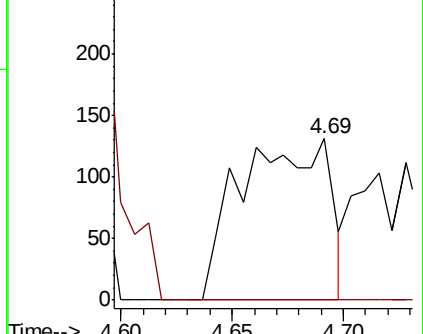
43 100

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



#27

cis-1,2-Dichloroethene

Concen: 17.867 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

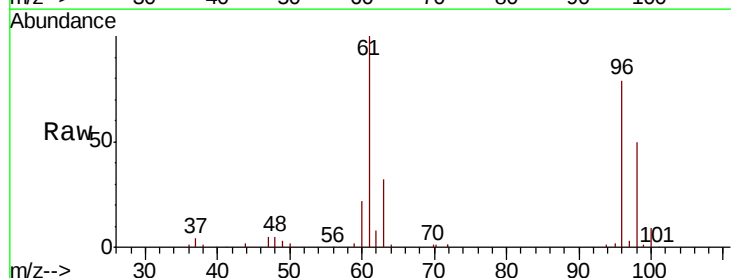
Tgt Ion: 96 Resp: 40517

Ion Ratio Lower Upper

96 100

61 126.4 0.0 290.6

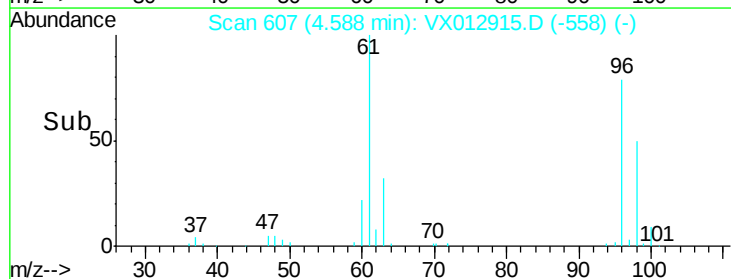
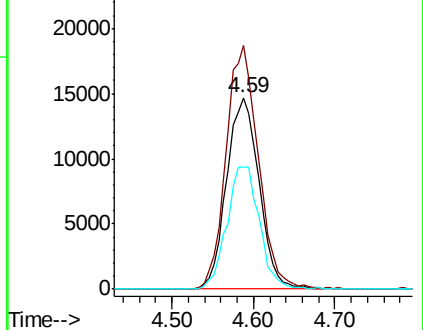
98 63.9 0.0 128.8

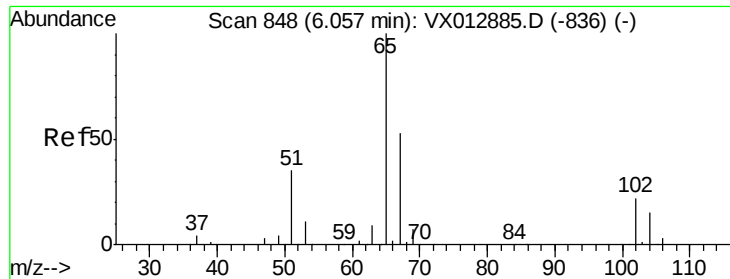


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

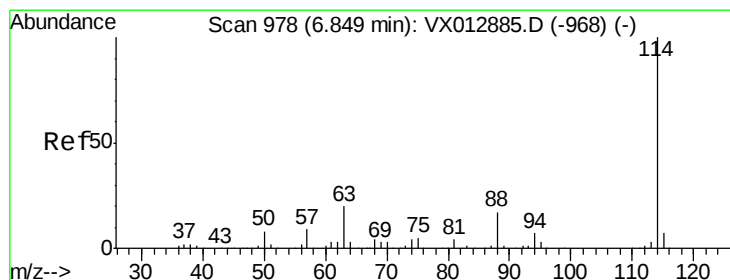
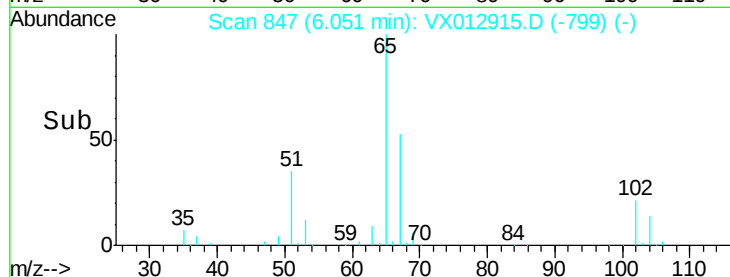
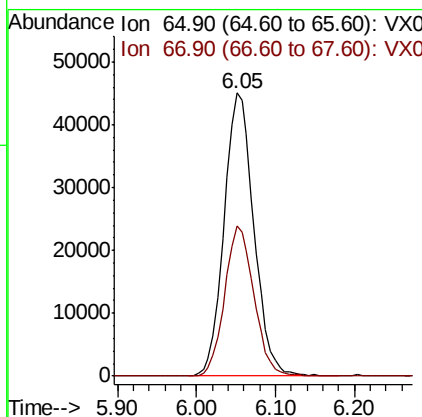
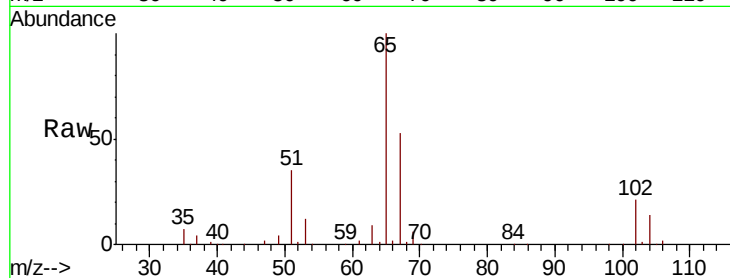




#33
 1,2-Dichloroethane-d4
 Concen: 52.097 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX012915.D
 Acq: 09 Oct 2019 02:22

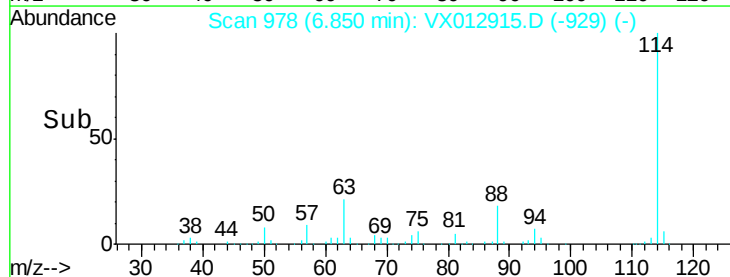
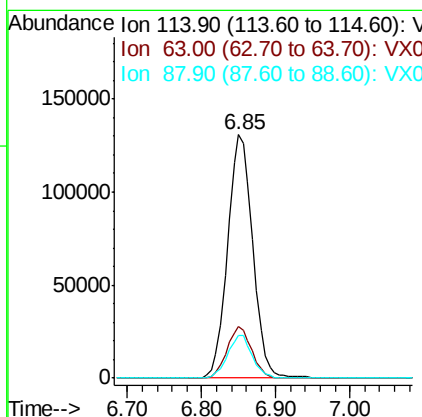
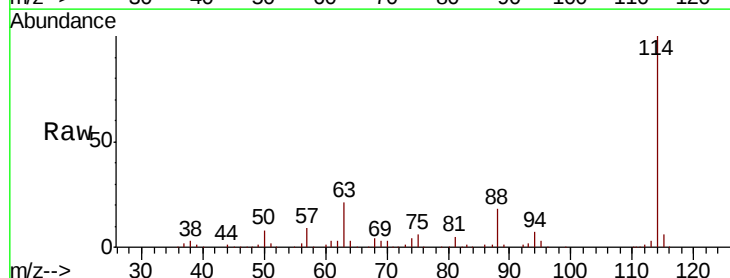
Instrument :
 MSVOA_X
 ClientSampleId :

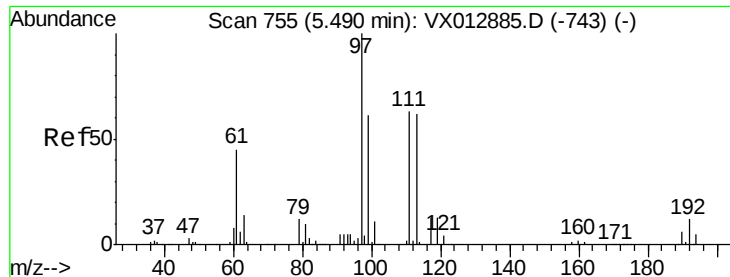
Tot Ion: 65 Resp: 118268
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012915.D
 Acq: 09 Oct 2019 02:22

Tgt Ion: 114 Resp: 309181
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 17.6 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.275 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

ClientSampleId :

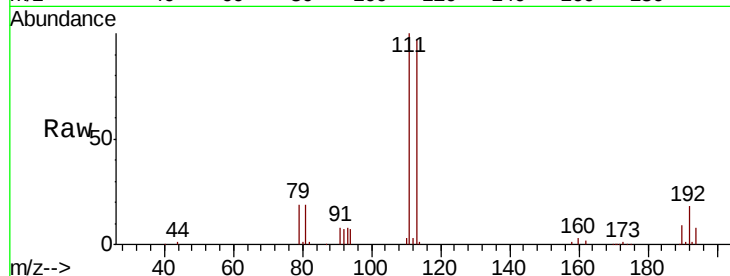
Tot Ion:113 Resp: 90990

Ion Ratio Lower Upper

113 100

111 103.7 83.2 124.8

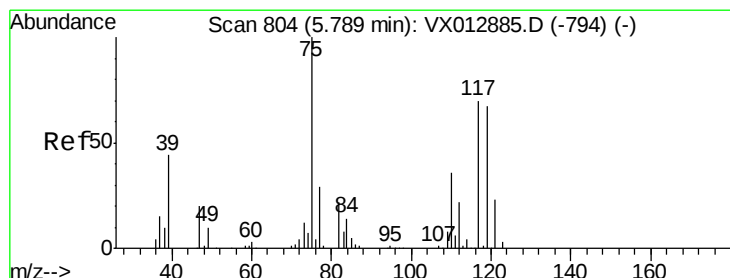
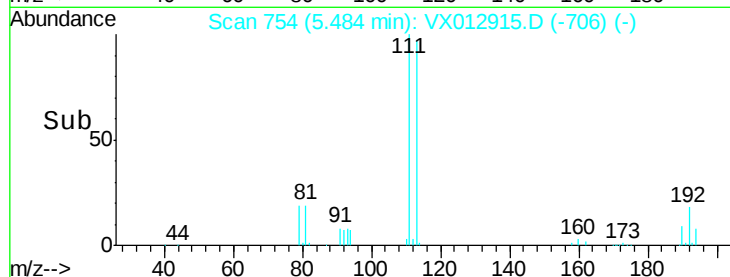
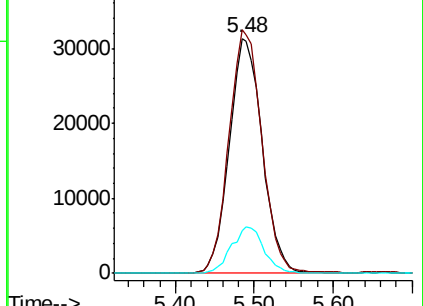
192 19.4 15.4 23.2



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: 5.445 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

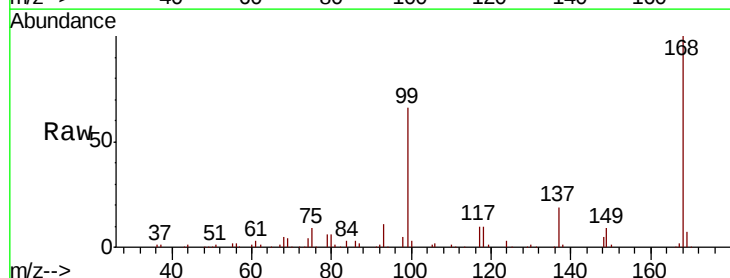
Tgt Ion: 75 Resp: 14801

Ion Ratio Lower Upper

75 100

110 9.0 17.6 52.9#

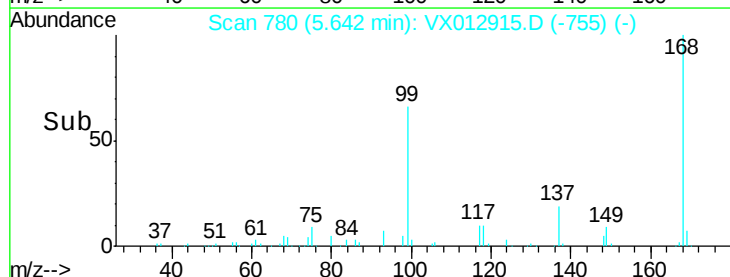
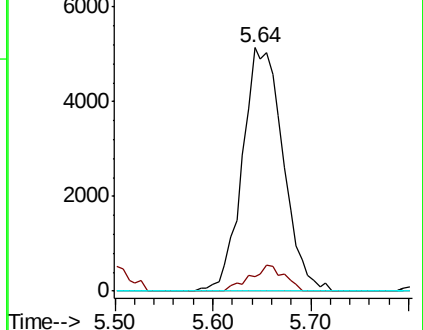
77 0.0 24.4 36.6#

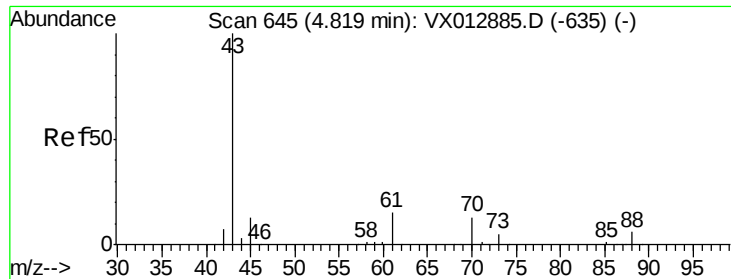


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

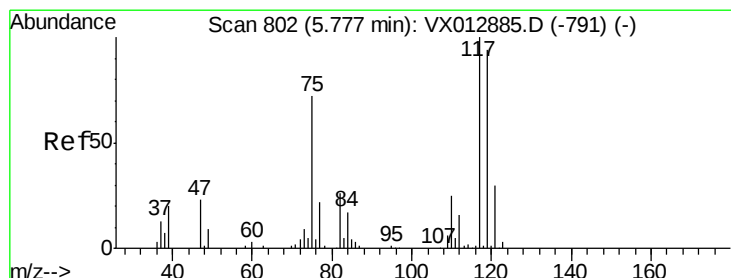
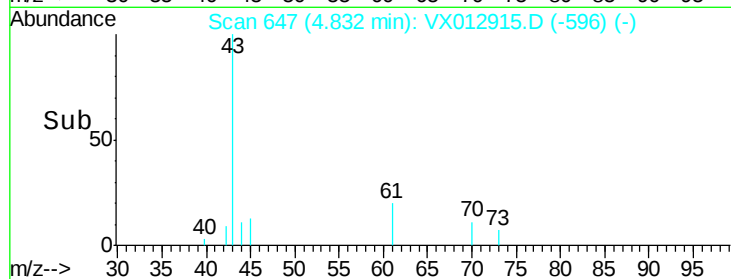
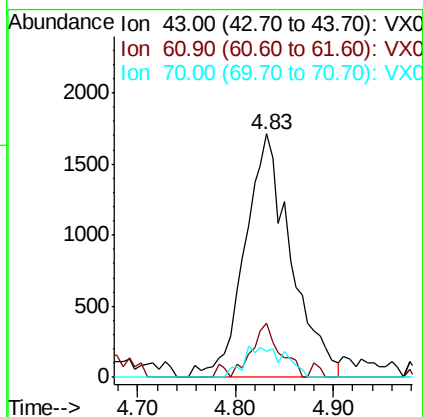
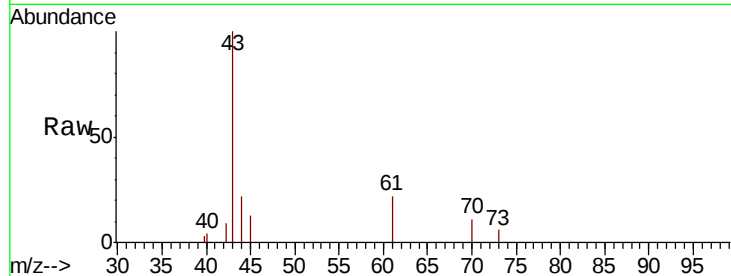




#37
Ethyl Acetate
Concen: 1.837 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

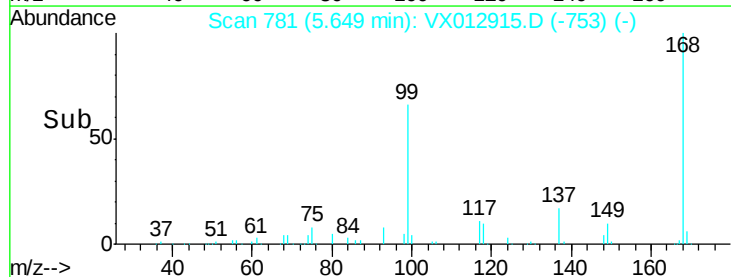
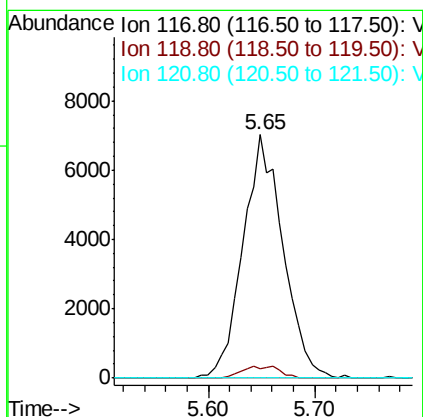
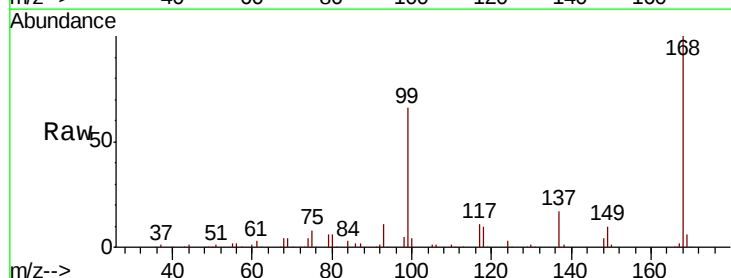
Instrument :
MSVOA_X
ClientSampleId :

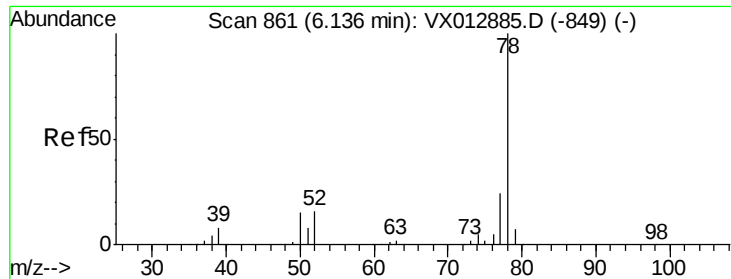
Tot Ion: 43 Resp: 5585
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 11.3 9.8 14.6



#38
Carbon Tetrachloride
Concen: 6.991 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

Tgt Ion: 117 Resp: 18498
Ion Ratio Lower Upper
117 100
119 3.7 74.5 111.7#
121 0.0 24.2 36.4#

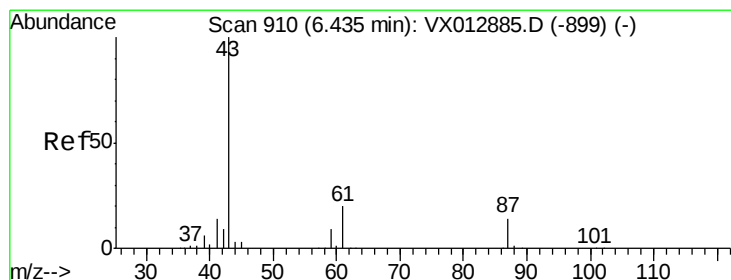
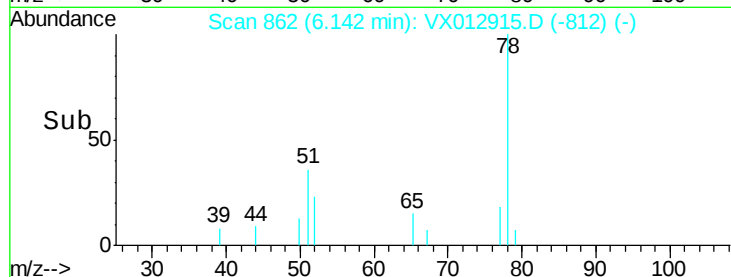
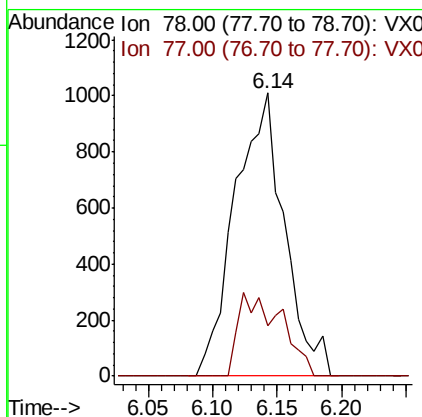
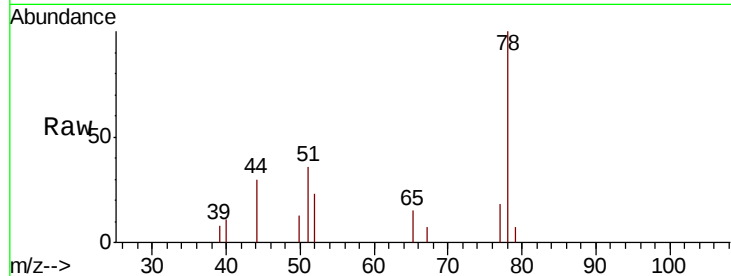




#40
Benzene
Concen: 0.335 ug/l
RT: 6.14 min Scan# 862
Delta R.T. 0.01 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

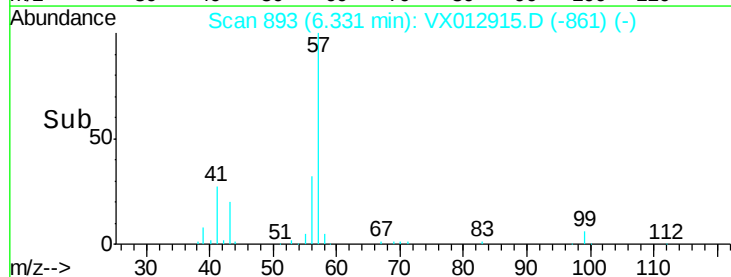
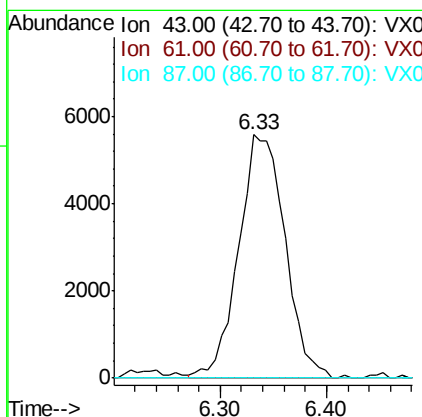
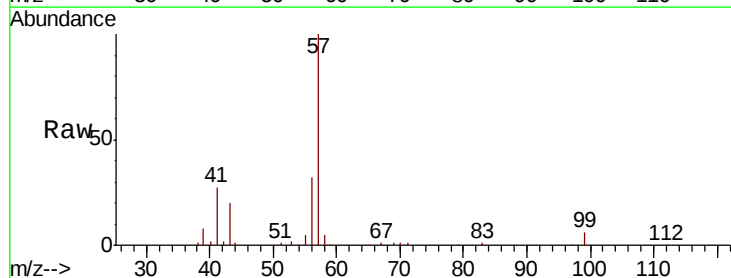
Instrument :
MSVOA_X
ClientSampleId :

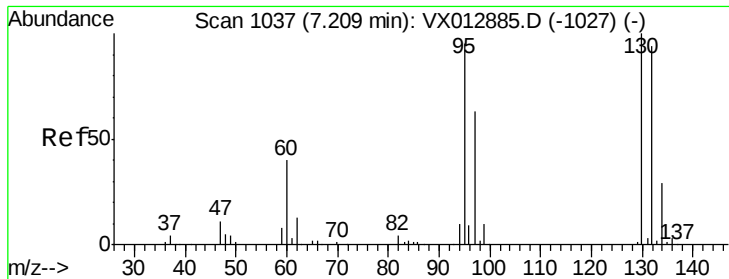
Tot Ion: 78 Resp: 2687
Ion Ratio Lower Upper
78 100
77 17.9 19.0 28.4#



#43
Isopropyl Acetate
Concen: 3.488 ug/l
RT: 6.33 min Scan# 893
Delta R.T. -0.10 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

Tgt Ion: 43 Resp: 17019
Ion Ratio Lower Upper
43 100
61 0.0 16.6 24.8#
87 0.0 11.0 16.6#





#44

Trichloroethene

Concen: 0.477 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

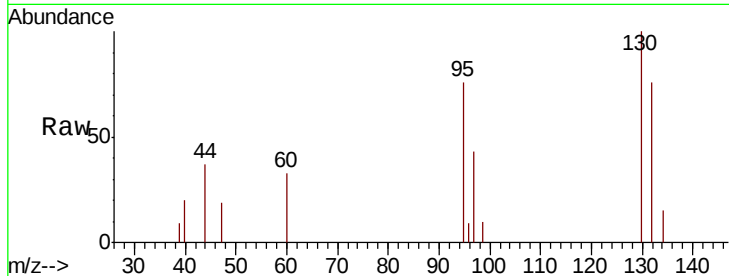
ClientSampleId :

Tot Ion:130 Resp: 1063

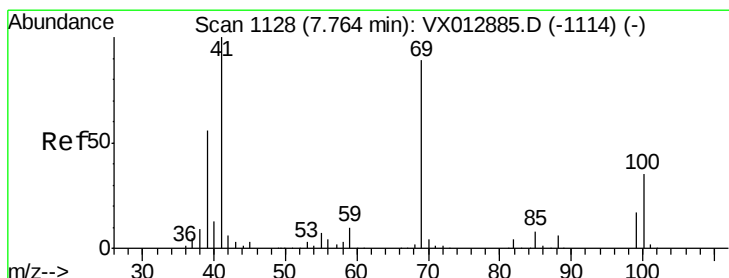
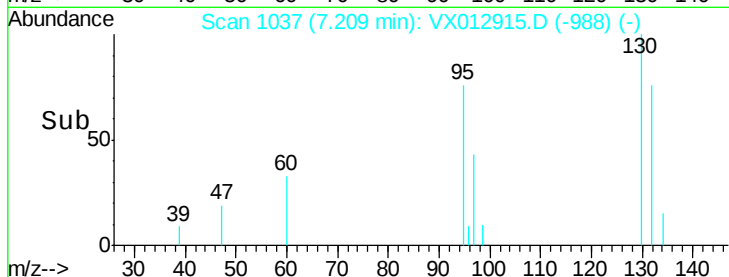
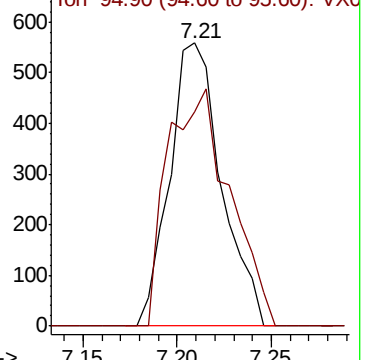
Ion Ratio Lower Upper

130 100

95 75.6 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V



#48

Methyl methacrylate

Concen: 1.115 ug/l

RT: 7.68 min Scan# 1114

Delta R.T. -0.09 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

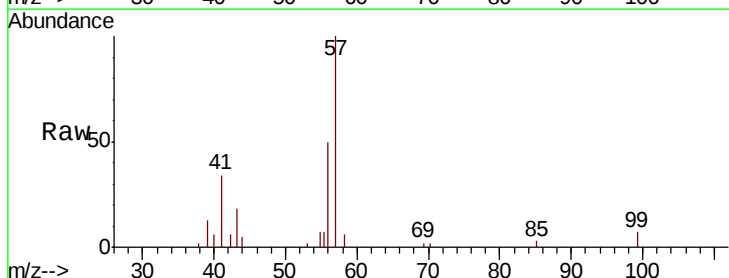
Tgt Ion: 41 Resp: 2651

Ion Ratio Lower Upper

41 100

69 4.5 68.7 103.1#

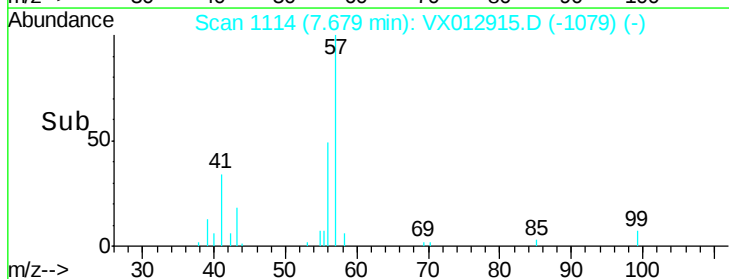
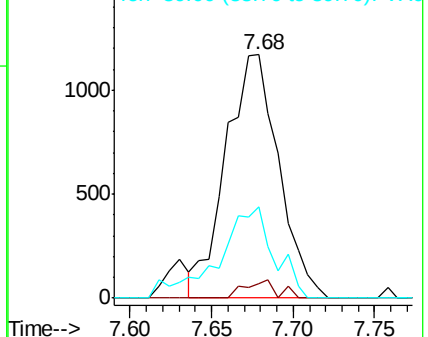
39 39.4 44.3 66.5#

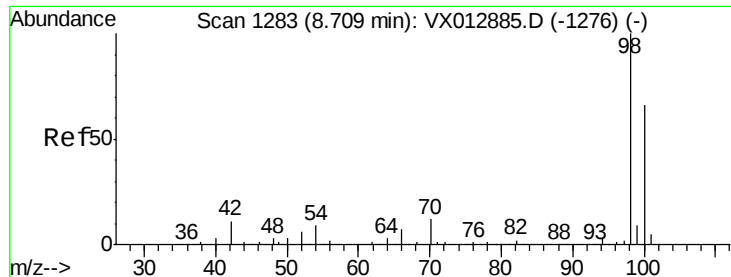


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

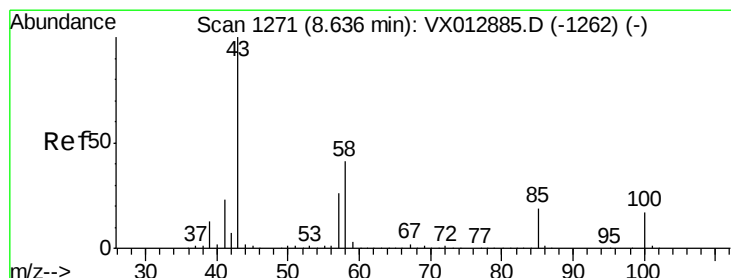
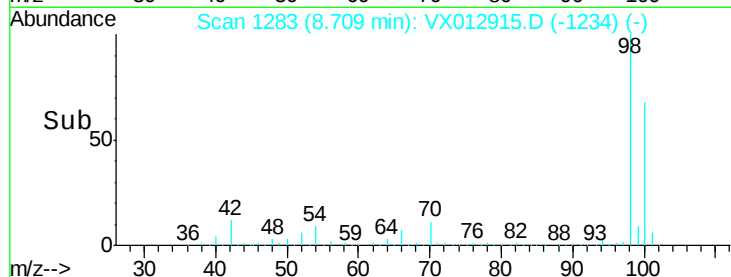
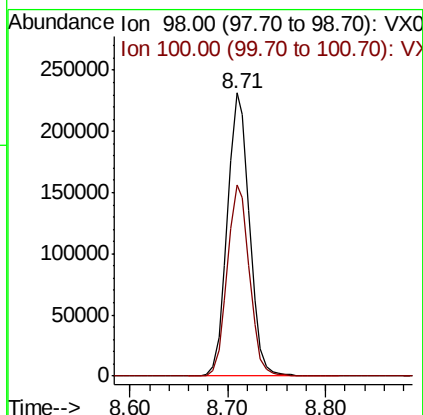
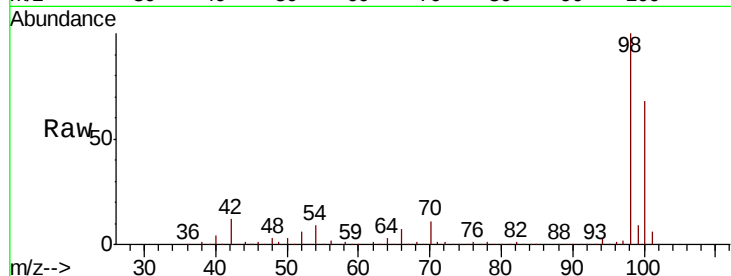




#50
Toluene-d8
Concen: 52.478 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

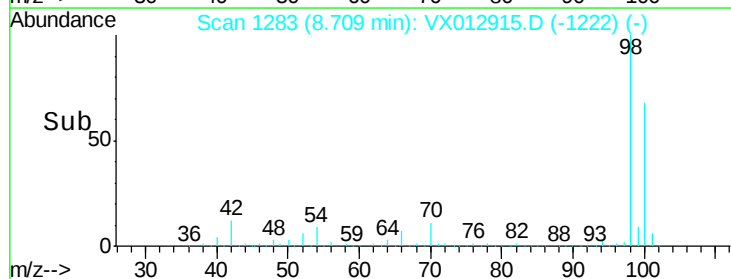
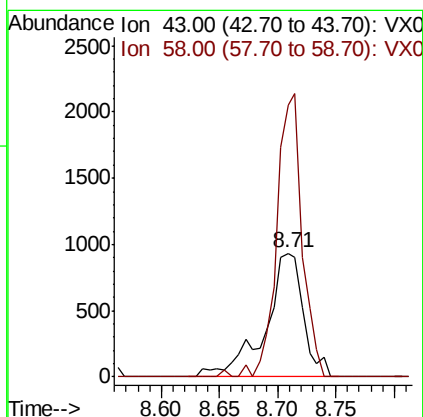
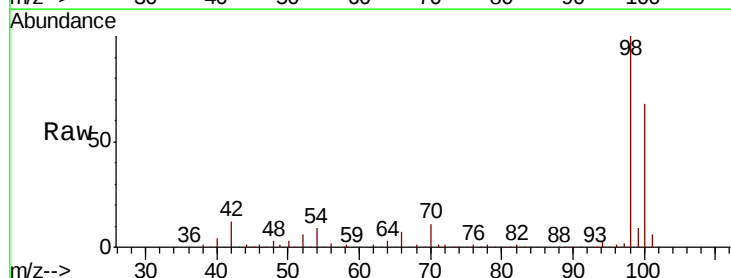
Instrument :
MSVOA_X
ClientSampleId :

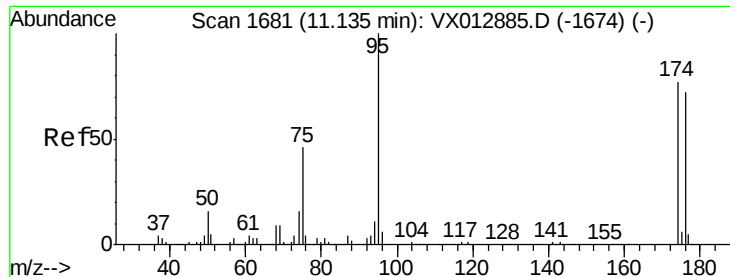
Tot Ion: 98 Resp: 363204
Ion Ratio Lower Upper
98 100
100 67.9 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.694 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012915.D
Acq: 09 Oct 2019 02:22

Tgt Ion: 43 Resp: 2110
Ion Ratio Lower Upper
43 100
58 151.8 32.4 48.6#





#62

4-Bromofluorobenzene

Concen: 47.966 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

ClientSampleId :

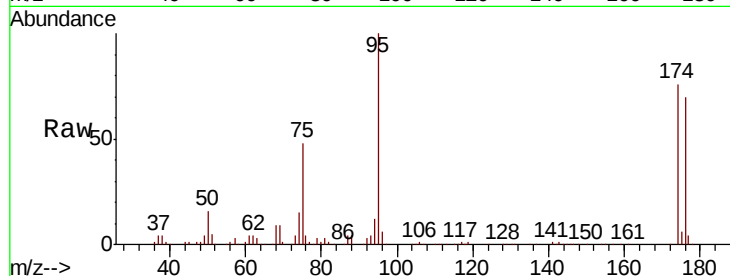
Tot Ion: 95 Resp: 128992

Ion Ratio Lower Upper

95 100

174 70.1 0.0 143.4

176 65.9 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

120000

100000

80000

60000

40000

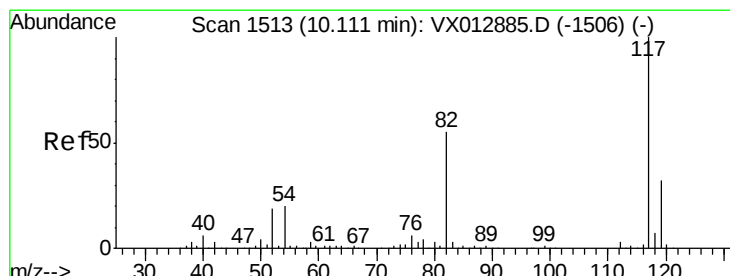
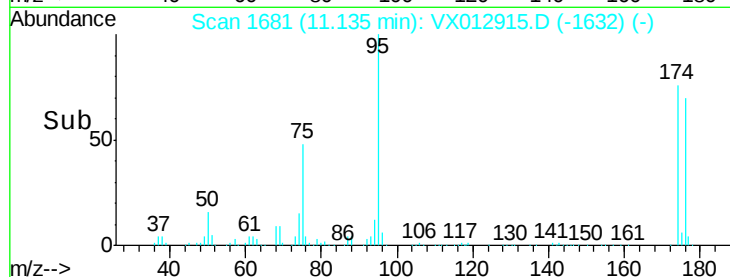
20000

0

11.10

11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

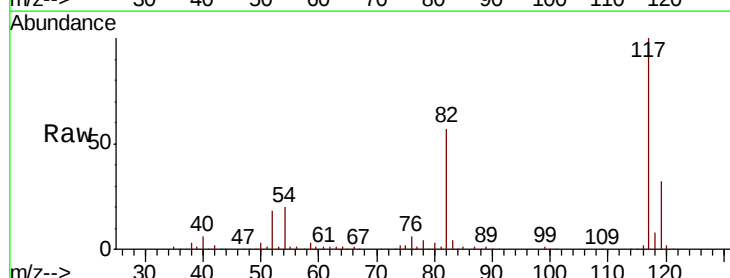
Tgt Ion: 117 Resp: 266084

Ion Ratio Lower Upper

117 100

82 56.7 44.1 66.1

119 31.8 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

250000

200000

150000

100000

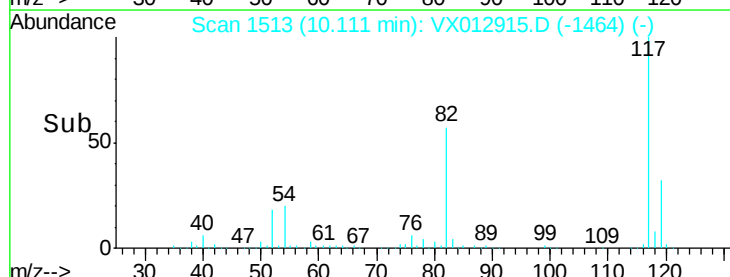
50000

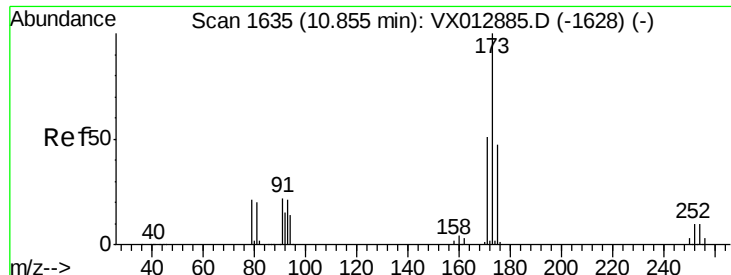
0

10.10

10.20

Time-->





#71

Bromoform

Concen: 3.220 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

ClientSampled :

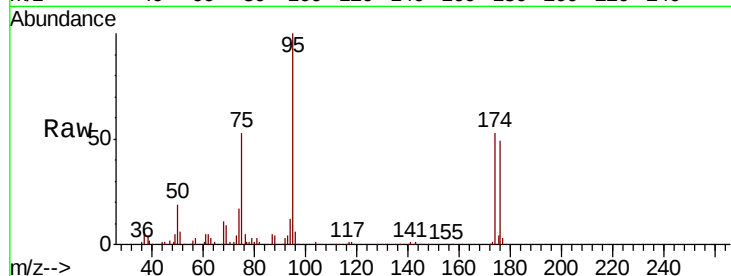
Tot Ion:173 Resp: 145

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

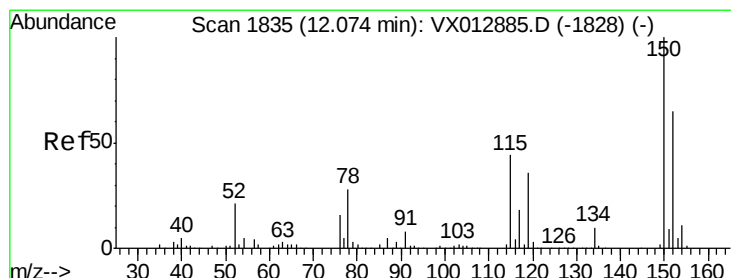
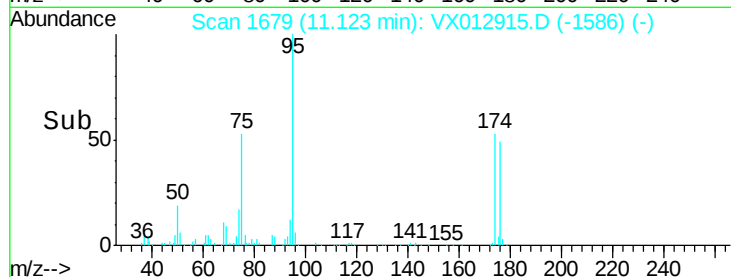
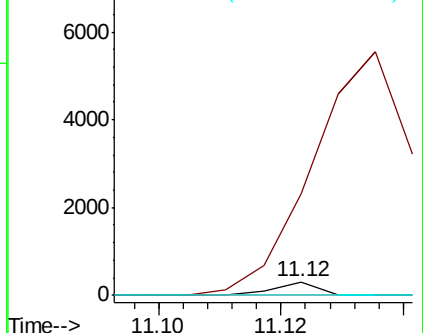
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX012915.D

Acq: 09 Oct 2019 02:22

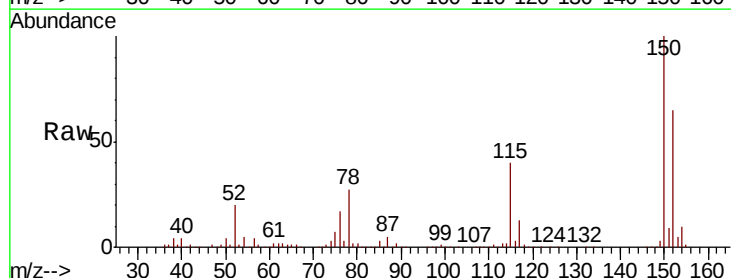
Tgt Ion:152 Resp: 109021

Ion Ratio Lower Upper

152 100

115 63.5 44.5 133.5

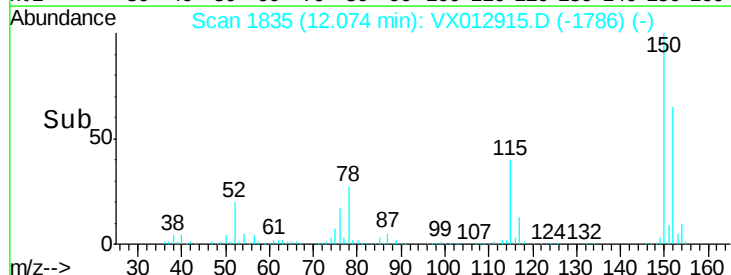
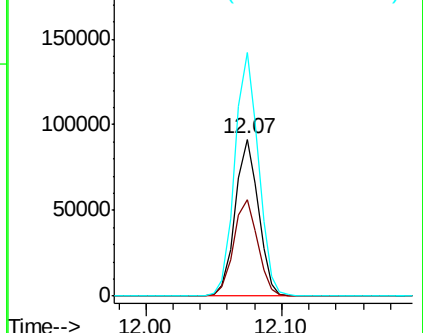
150 157.6 0.0 353.4

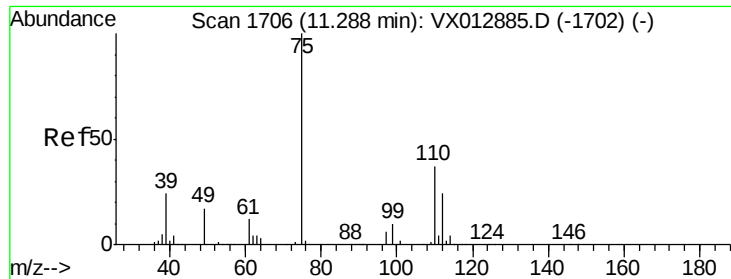


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.302 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

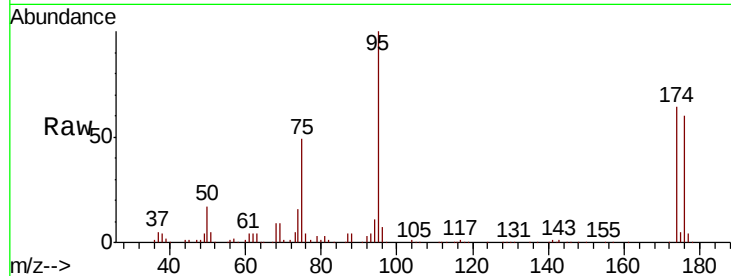
ClientSampleId :

Tot Ion: 75 Resp: 63600

Ion Ratio Lower Upper

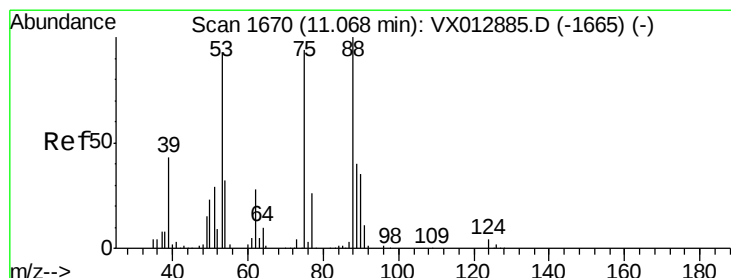
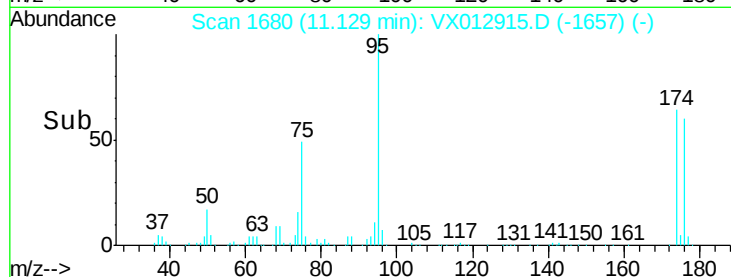
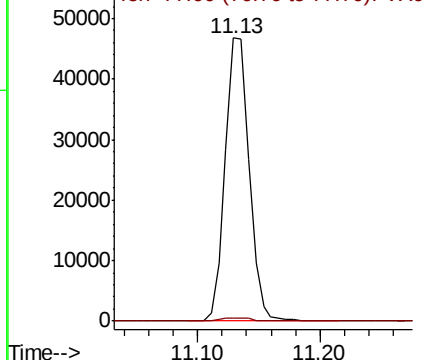
75 100

77 1.4 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: 66.194 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

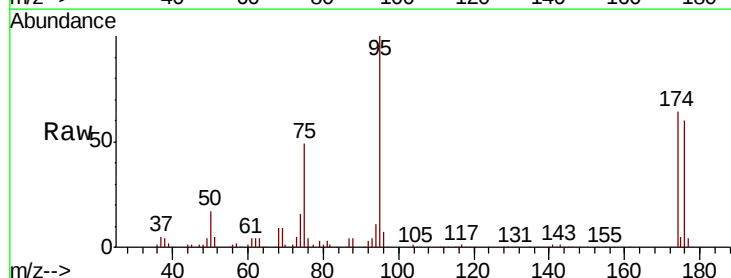
Tgt Ion: 75 Resp: 63600

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

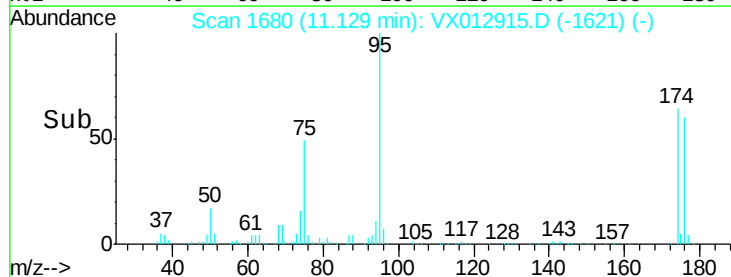
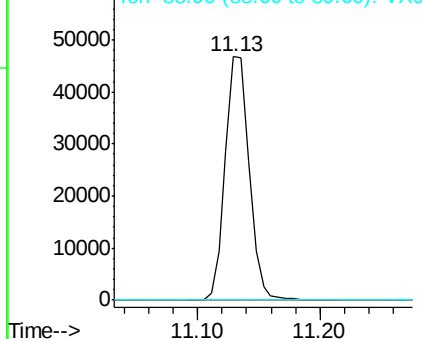
89 0.0 37.4 56.2#

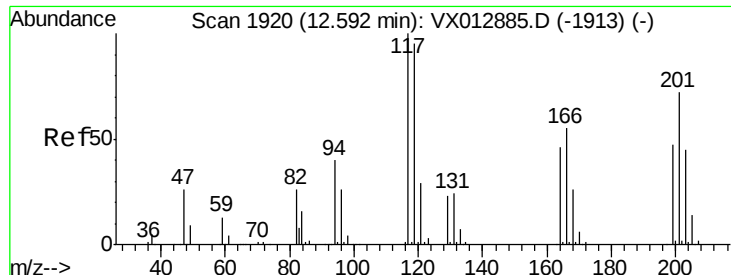


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.261 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX012915.D

Acq: 09 Oct 2019 02:22

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 194

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#

