

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110518\
 Data File : VX005778.D
 Acq On : 05 Nov 2018 15:11
 Operator : JC/MD
 Sample : J5794-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 00:44:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	149752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	253572	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	224956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	93145	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	112650	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
35) Dibromofluoromethane	5.51	113	87240	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	8.71	98	300312	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	11.14	95	93385	41.09	ug/l	0.00
Spiked Amount			Recovery	=	82.18%	

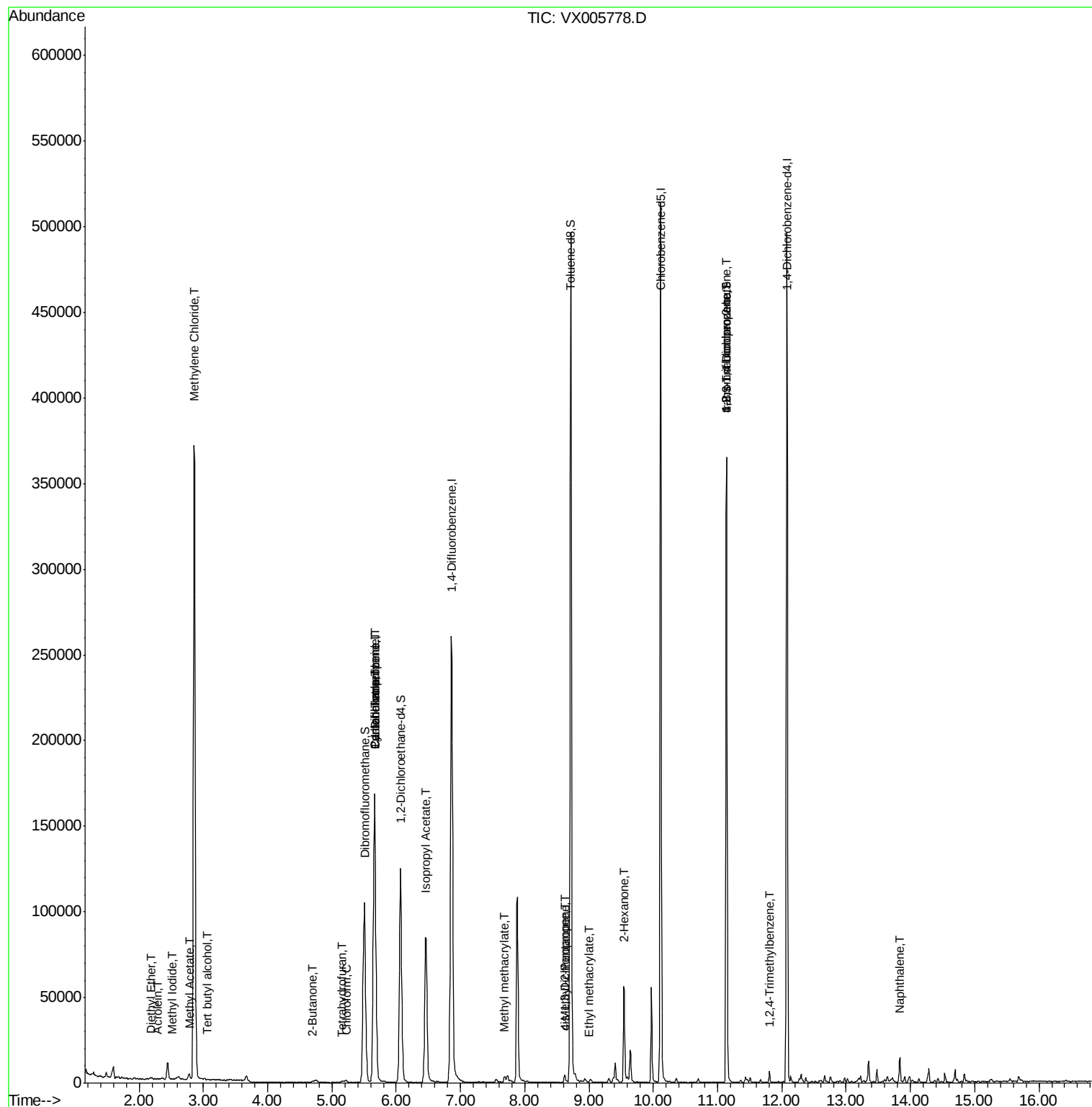
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	27	Below Cal	#	42
8) Diethyl Ether	2.19	74	344	0.281	ug/l	72
10) Methyl Iodide	2.51	142	219	2.071	ug/l #	49
11) Tert butyl alcohol	3.06	59	264	0.444	ug/l #	92
13) Acrolein	2.29	56	123	12.458	ug/l #	1
18) Methyl Acetate	2.78	43	3905	1.243	ug/l	95
20) Methylene Chloride	2.86	84	169763	89.916	ug/l	92
25) 2-Butanone	4.70	43	1715	0.929	ug/l	96
29) Tetrahydrofuran	5.16	42	618	0.548	ug/l #	52
30) Chloroform	5.22	83	1327	0.388	ug/l #	80
31) Cyclohexane	5.67	56	3715	1.270	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13032	4.824	ug/l #	49
38) Carbon Tetrachloride	5.67	117	15077	6.177	ug/l #	17
43) Isopropyl Acetate	6.46	43	113619	22.712	ug/l	98
48) Methyl methacrylate	7.69	41	4011	1.657	ug/l #	26
51) 4-Methyl-2-Pentanone	8.62	43	2252	0.660	ug/l #	53
54) cis-1,3-Dichloropropene	8.62	75	654	0.228	ug/l #	67
56) Ethyl methacrylate	9.00	69	46	2.484	ug/l #	22
59) 2-Hexanone	9.55	43	6420	2.313	ug/l	66
76) 1,2,3-Trichloropropane	11.14	75	48926	21.090	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	48926	68.140	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	2840	0.539	ug/l	94
95) Naphthalene	13.83	128	8409	1.295	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

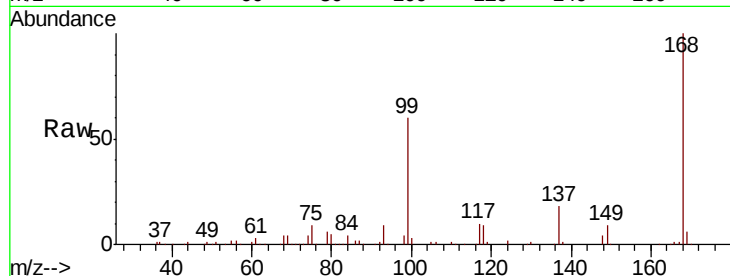
ClientSampleId :

Tot Ion:168 Resp: 149752

Ion Ratio Lower Upper

168 100

99 60.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

50000

40000

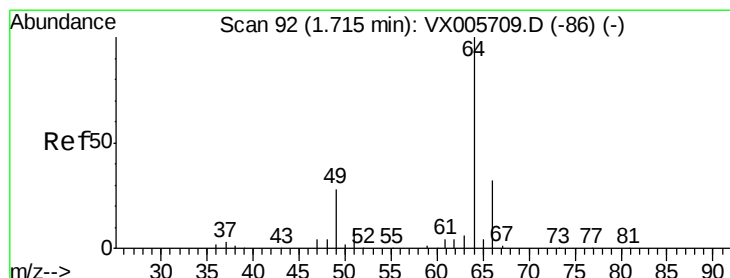
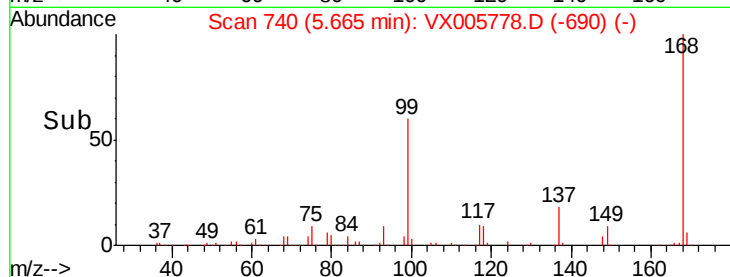
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005778.D

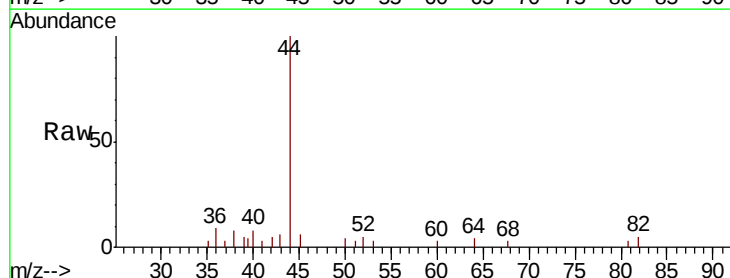
Acq: 05 Nov 2018 15:11

Tgt Ion: 64 Resp: 27

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

80

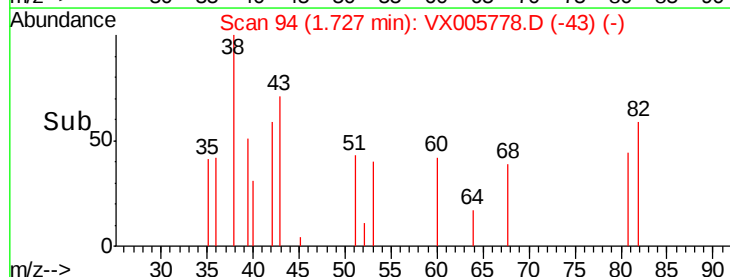
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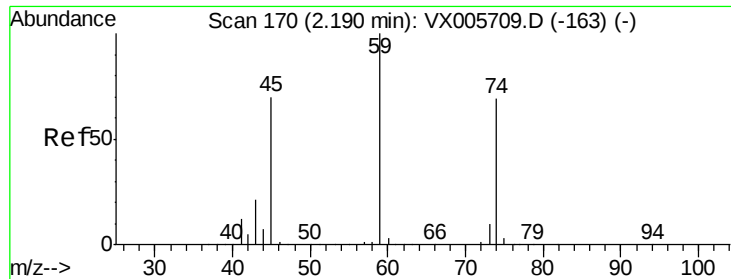
40

20

0

Time--> 1.71 1.72 1.73 1.74

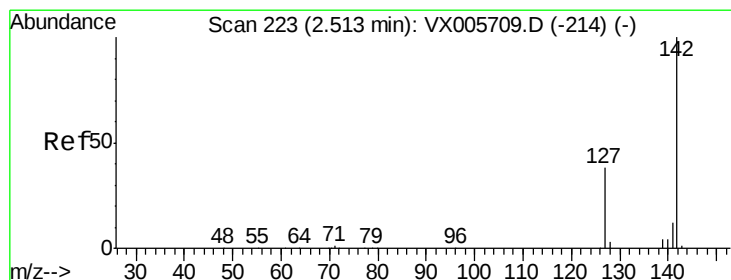
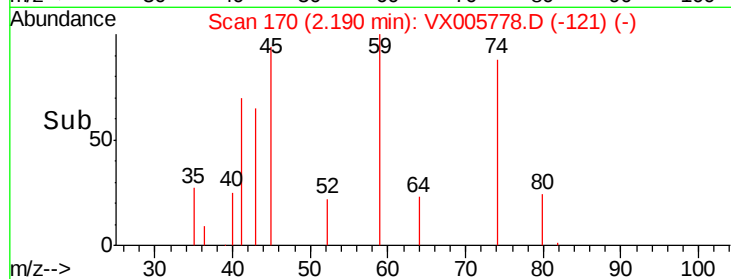
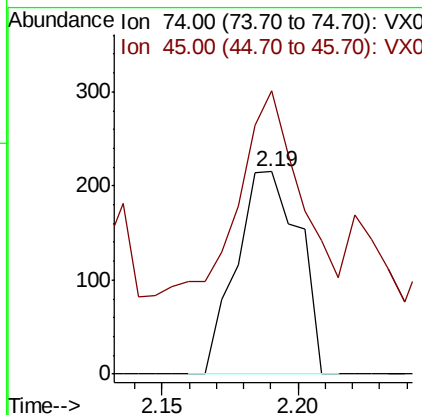
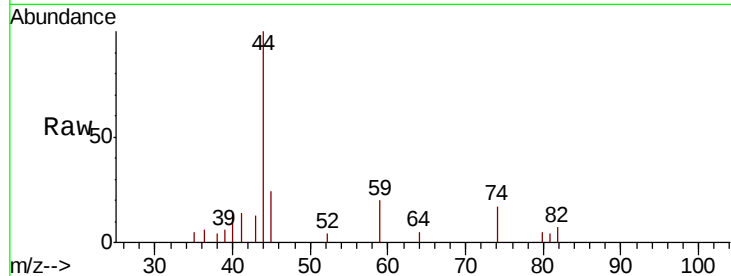




#8
Diethyl Ether
Concen: 0.281 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

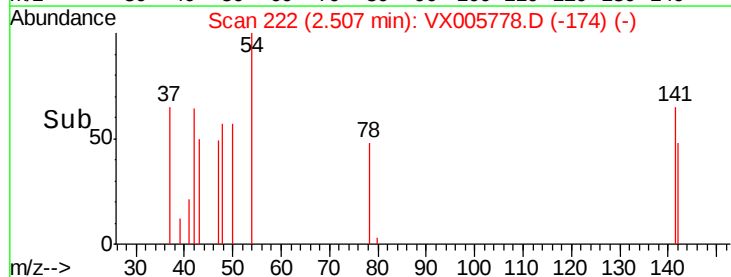
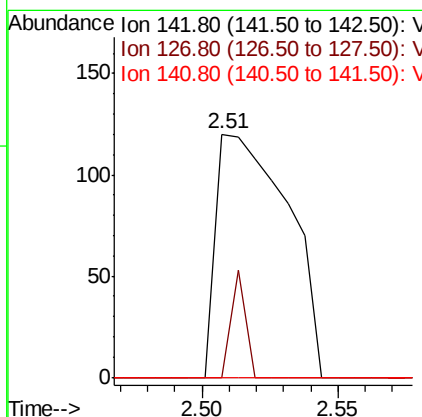
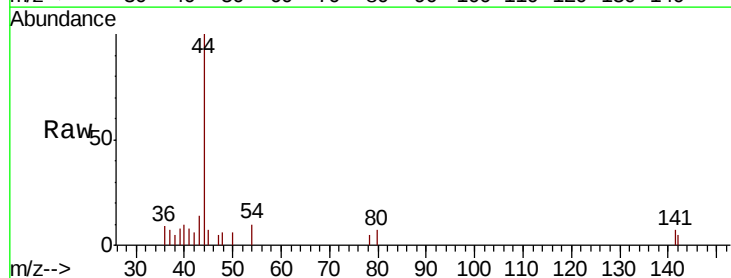
Instrument :
MSVOA_X
ClientSampled :

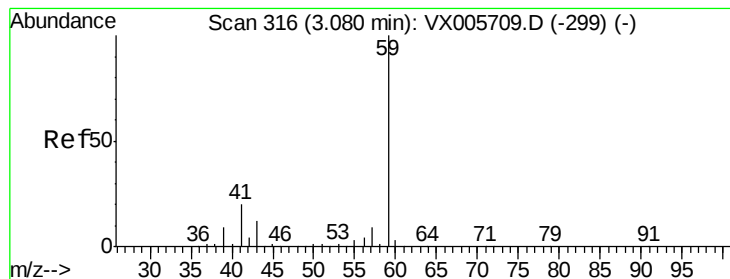
Tot Ion: 74 Resp: 344
Ion Ratio Lower Upper
74 100
45 78.8 54.1 162.3



#10
Methyl Iodide
Concen: 2.071 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.01 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Tgt Ion:142 Resp: 219
Ion Ratio Lower Upper
142 100
127 8.7 36.0 54.0#
141 0.0 11.7 17.5#



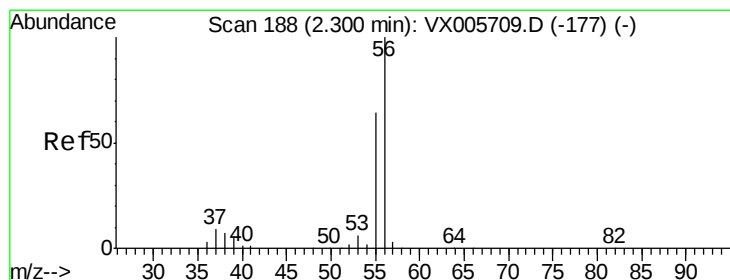
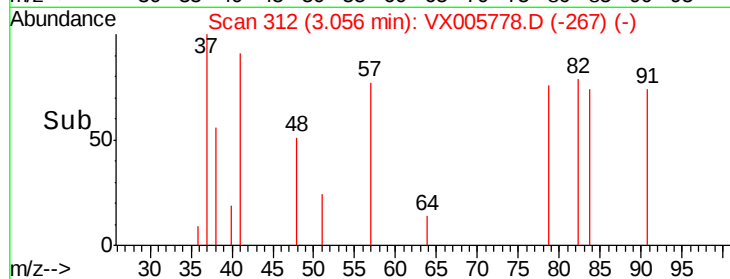
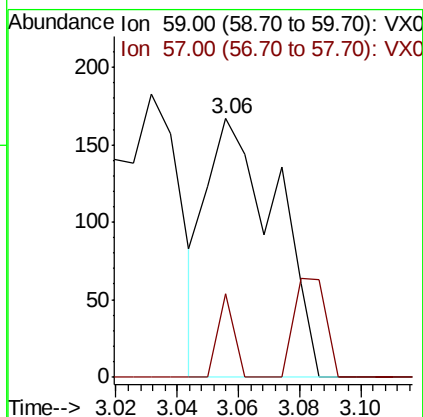
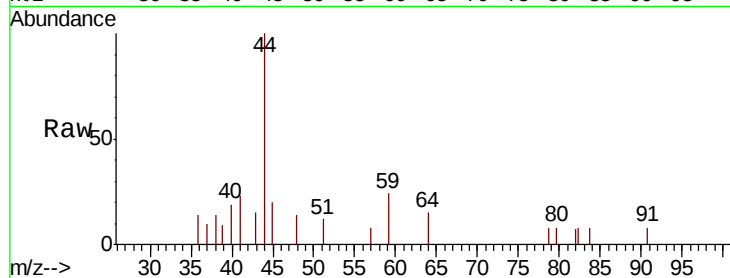


#11

Tert butyl alcohol
 Concen: 0.444 ug/l
 RT: 3.06 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

Instrument :
 MSVOA_X
 ClientSampleId :

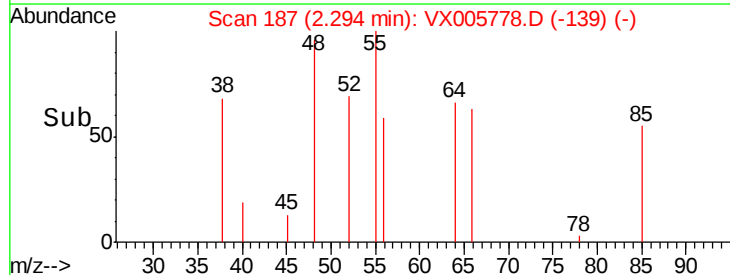
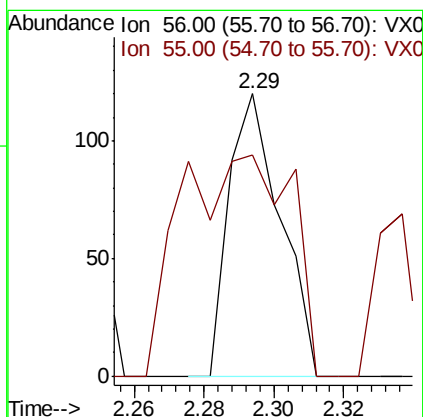
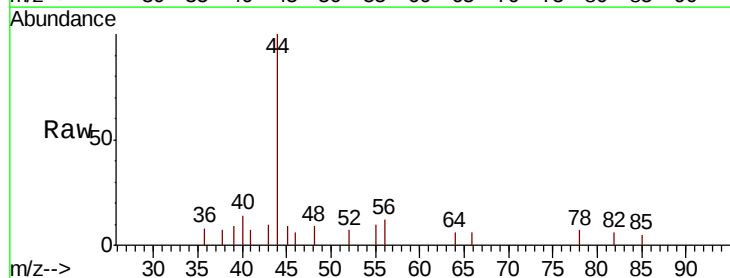
Tot Ion: 59 Resp: 264
 Ion Ratio Lower Upper
 59 100
 57 7.6 8.5 12.7#

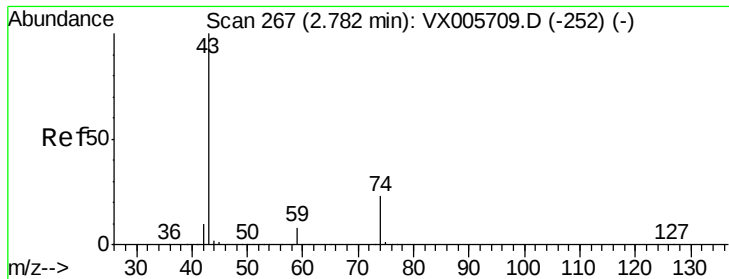


#13

Acrolein
 Concen: 12.458 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

Tgt Ion: 56 Resp: 123
 Ion Ratio Lower Upper
 56 100
 55 168.3 57.3 85.9#

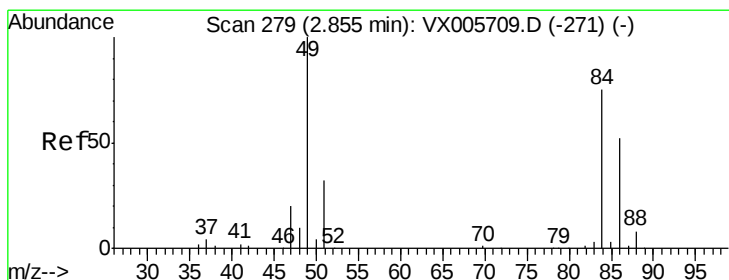
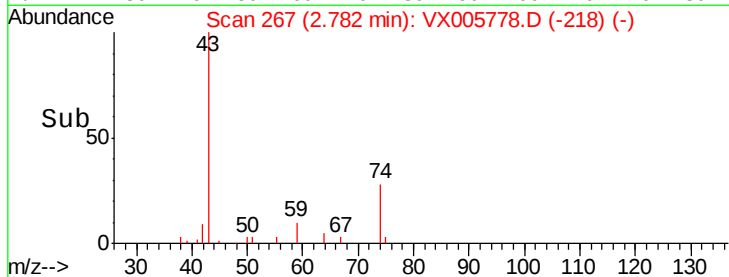
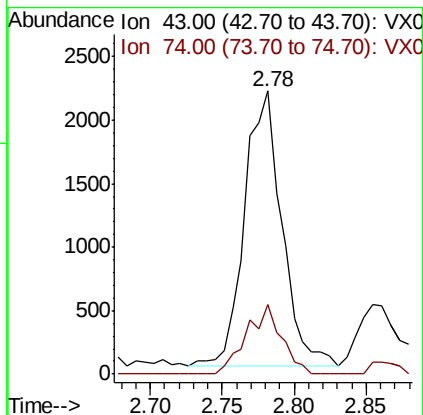
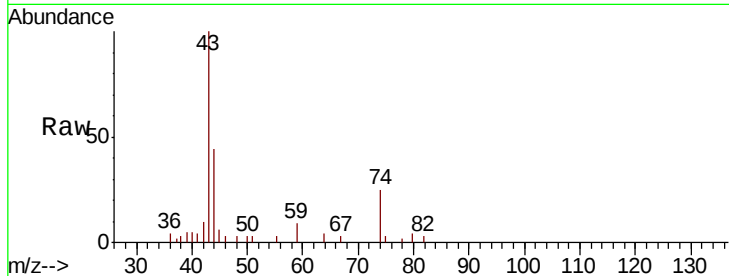




#18
Methvl Acetate
Concen: 1.243 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

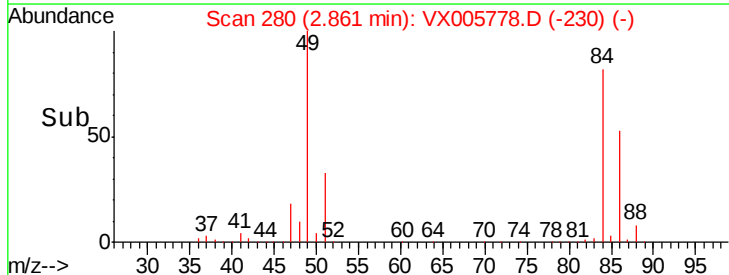
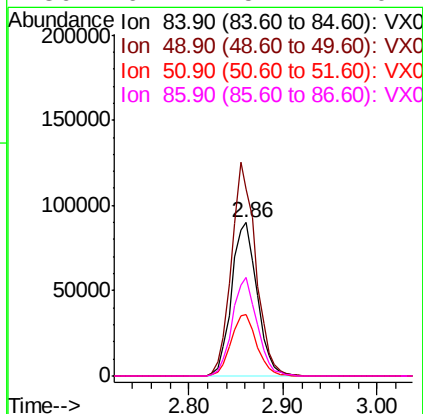
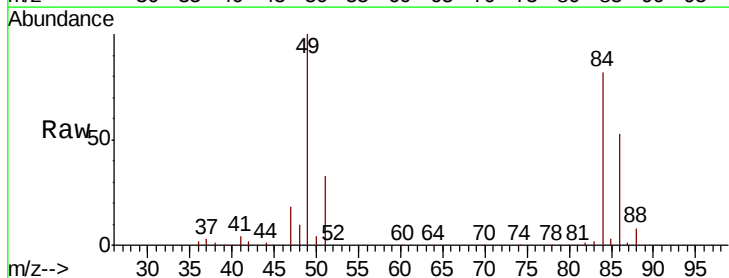
Instrument :
MSVOA_X
ClientSampleId :

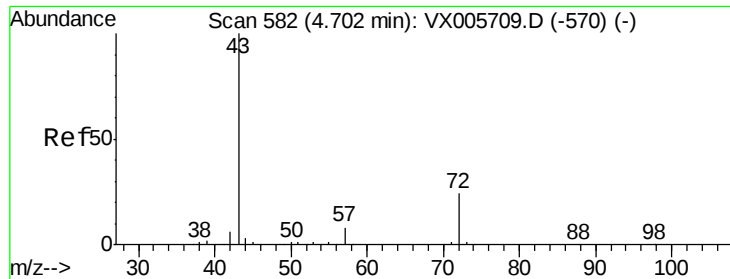
Tot Ion: 43 Resp: 3905
Ion Ratio Lower Upper
43 100
74 23.5 16.8 25.2



#20
Methylene Chloride
Concen: 89.916 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Tgt Ion: 84 Resp: 169763
Ion Ratio Lower Upper
84 100
49 121.8 109.5 164.3
51 40.3 33.3 49.9
86 64.2 52.7 79.1





#25

2-Butanone

Concen: 0.929 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

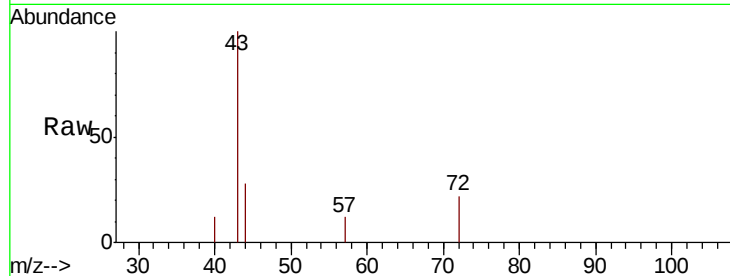
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1715

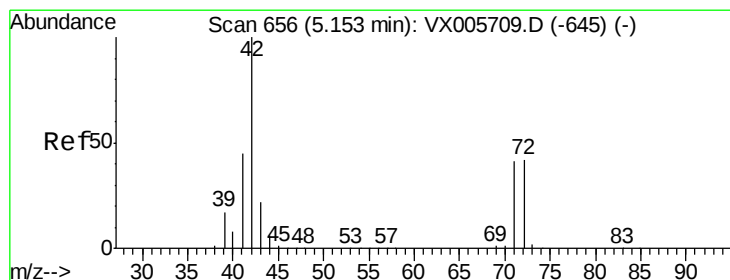
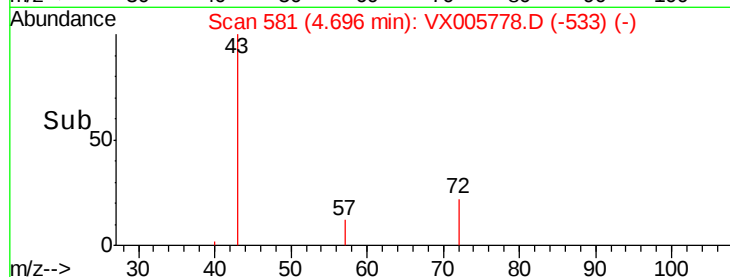
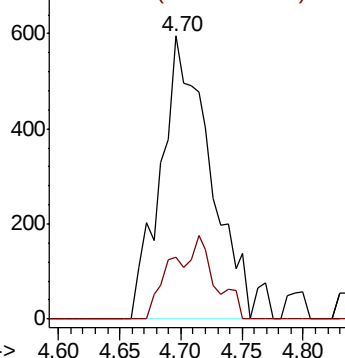
Ion Ratio Lower Upper

43 100

72 21.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.548 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

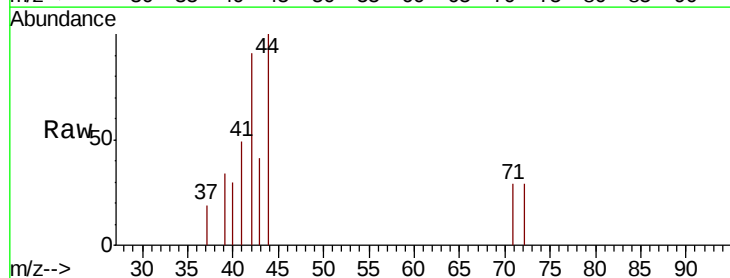
Tgt Ion: 42 Resp: 618

Ion Ratio Lower Upper

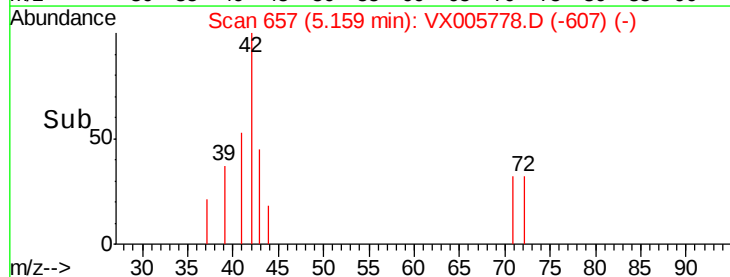
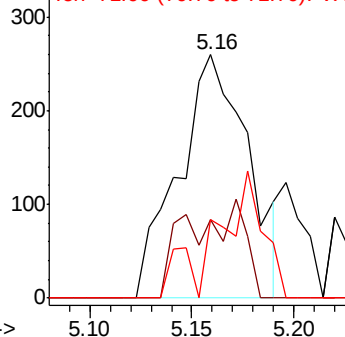
42 100

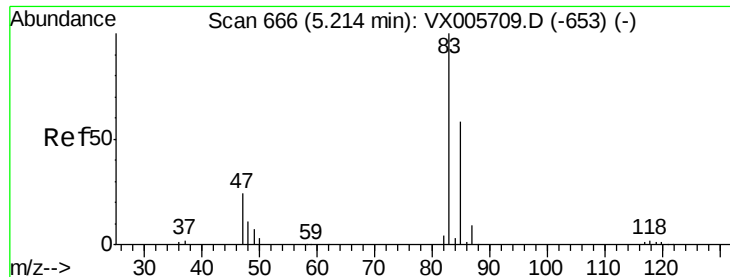
72 13.3 32.0 48.0#

71 6.1 29.8 44.8#



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

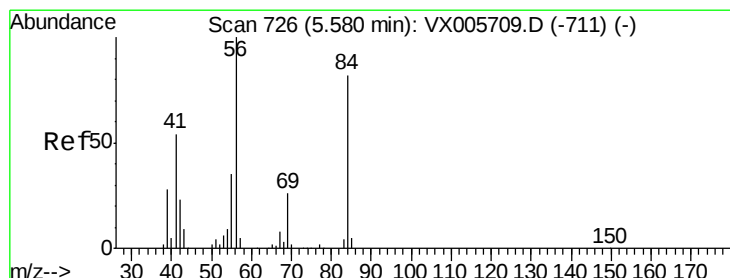
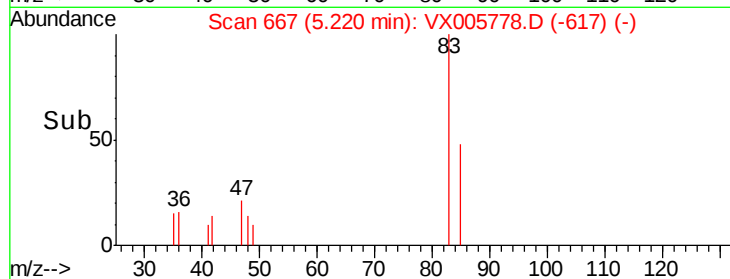
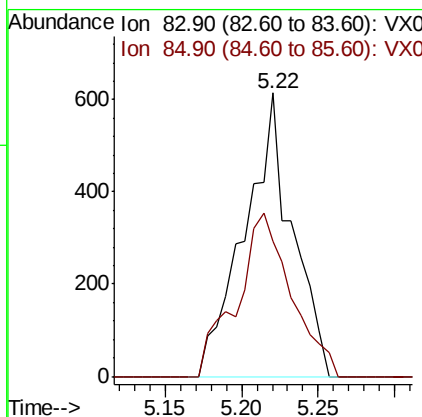
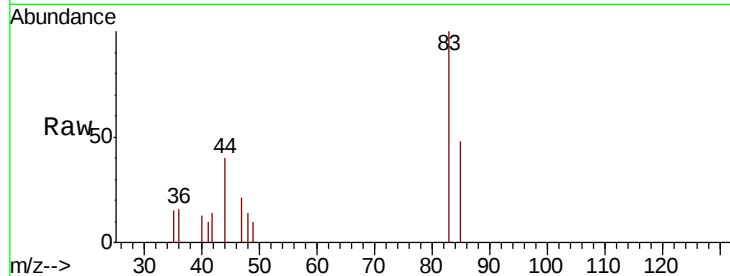




#30
Chloroform
Concen: 0.388 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

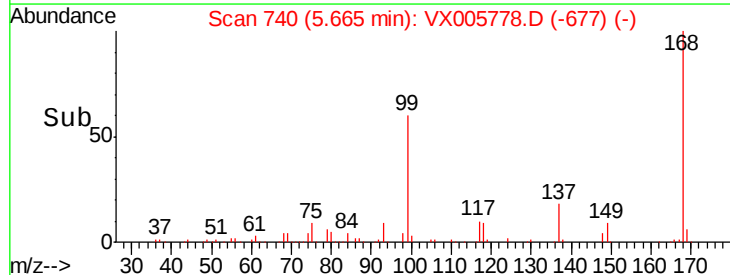
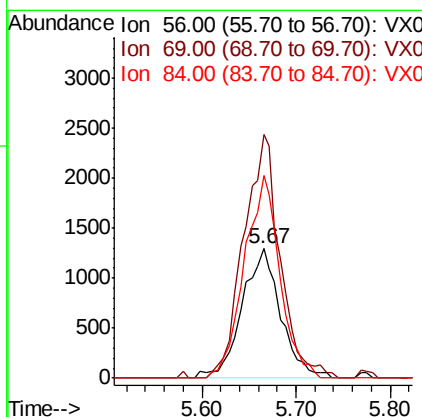
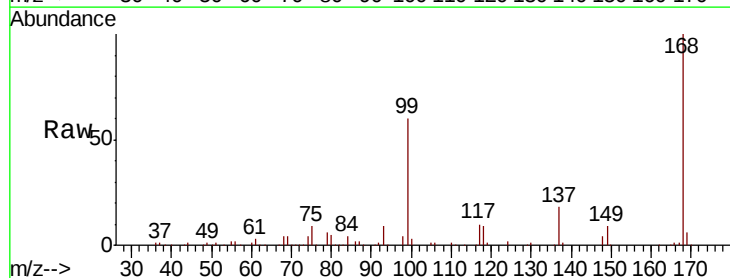
Instrument :
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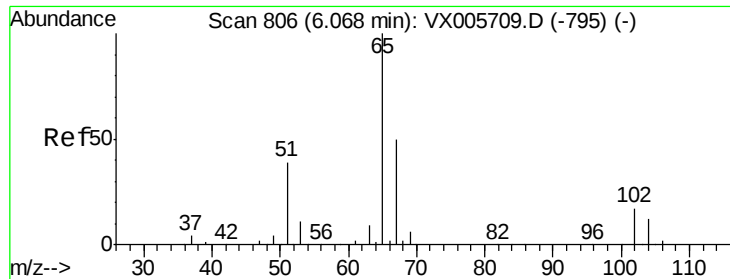
Tot Ion: 83 Resp: 1327
Ion Ratio Lower Upper
83 100
85 47.6 50.6 76.0#



#31
Cyclohexane
Concen: 1.270 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Tgt Ion: 56 Resp: 3715
Ion Ratio Lower Upper
56 100
69 188.5 22.6 34.0#
84 157.0 62.7 94.1#

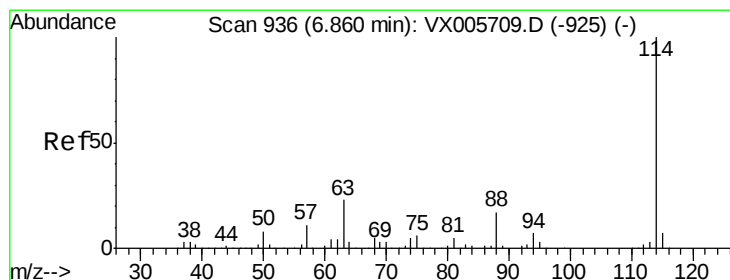
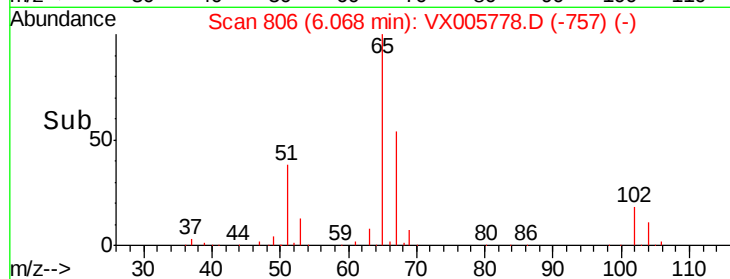
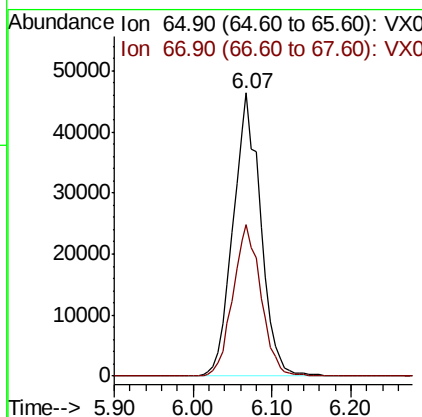
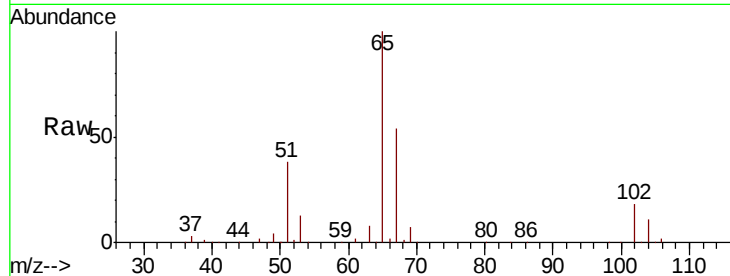




#33
 1,2-Dichloroethane-d4
 Concen: 51.452 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

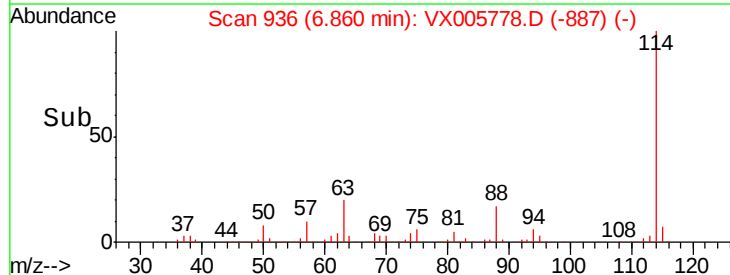
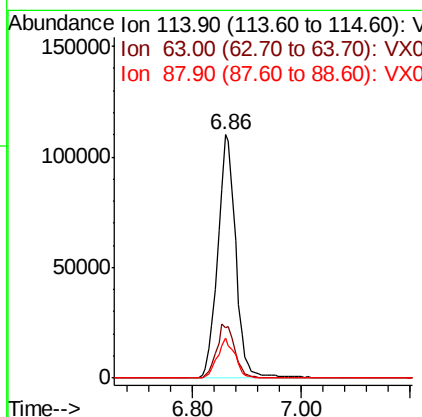
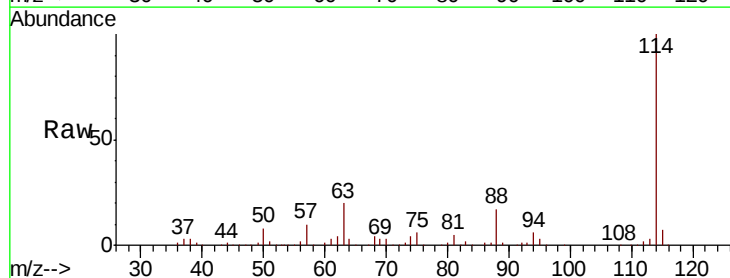
Instrument :
 MSVOA_X
 ClientSampleId :

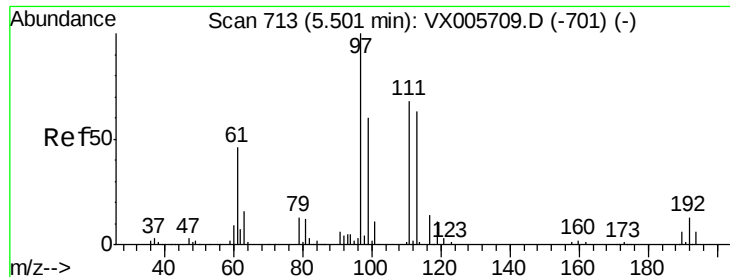
Tot Ion: 65 Resp: 112650
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

Tgt Ion: 114 Resp: 253572
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.8
 88 16.5 0.0 31.2

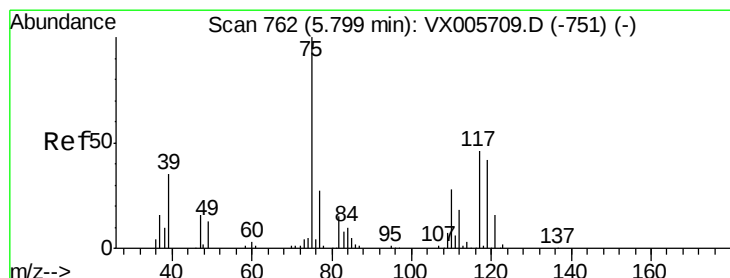
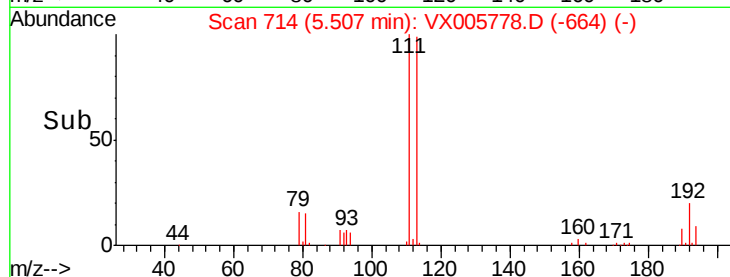
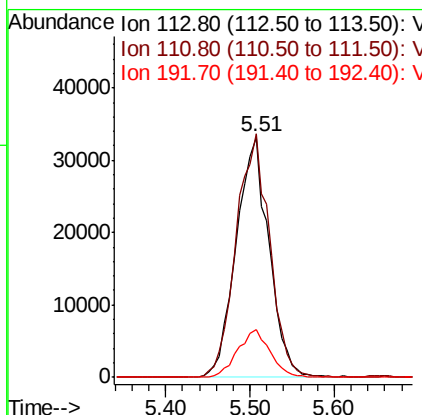
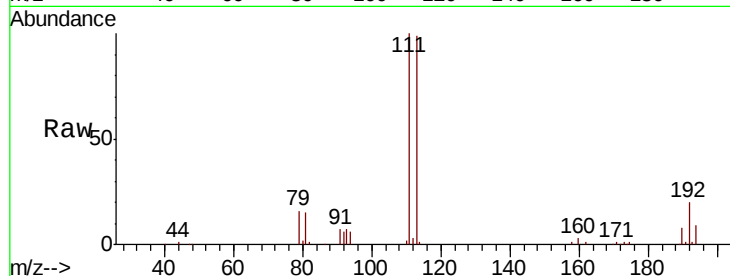




#35
 Dibromofluoromethane
 Concen: 49.688 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

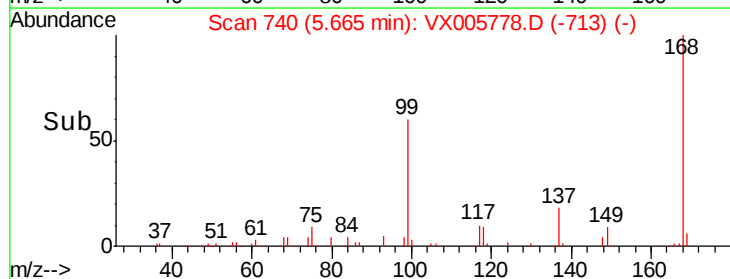
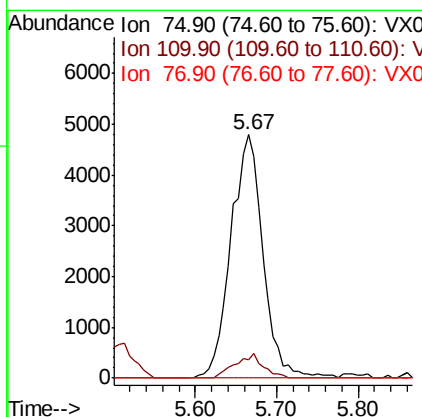
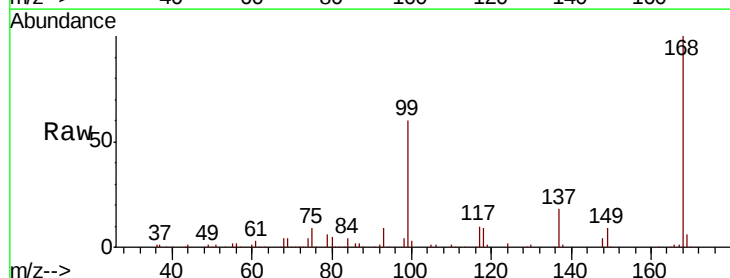
Instrument :
 MSVOA_X
 ClientSampleId :

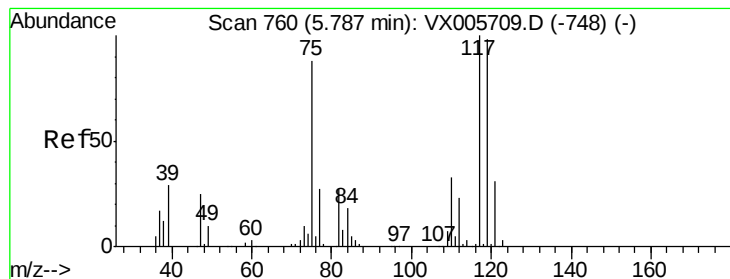
Tot Ion:113 Resp: 87240
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.3 123.5
 192 19.6 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.824 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005778.D
 Acq: 05 Nov 2018 15:11

Tgt Ion: 75 Resp: 13032
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.4 52.2#
 77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.177 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

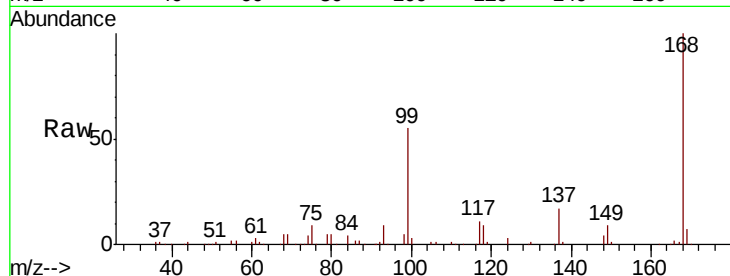
Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

ClientSampled :



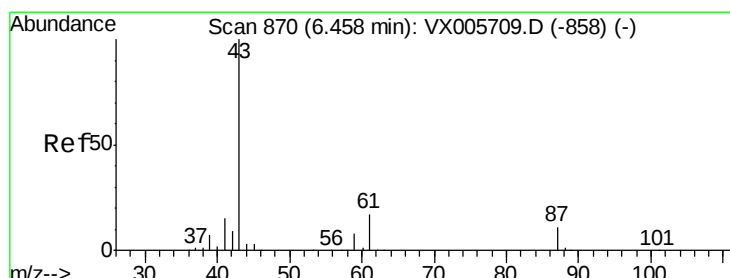
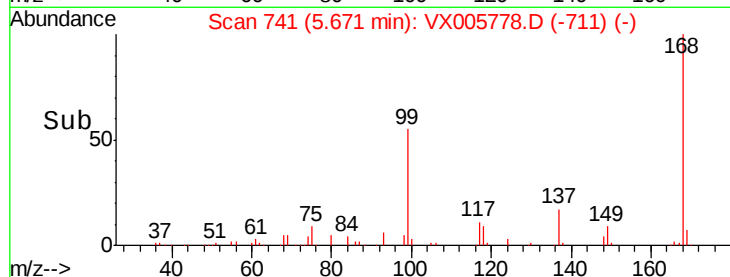
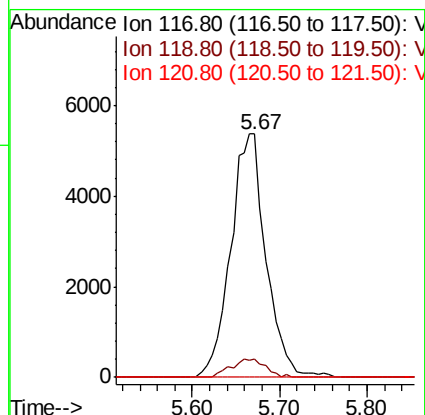
Tot Ion:117 Resp: 15077

Ion Ratio Lower Upper

117 100

119 7.5 78.1 117.1#

121 0.0 24.6 36.8#



#43

Isopropyl Acetate

Concen: 22.712 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

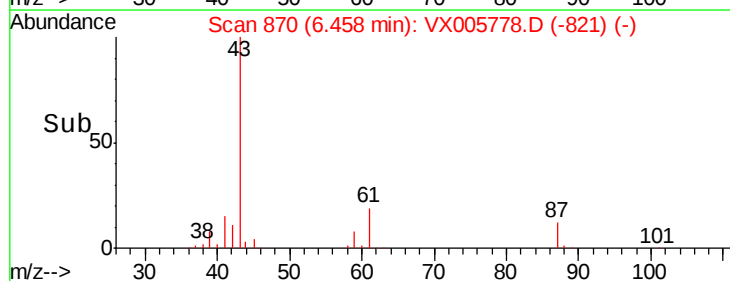
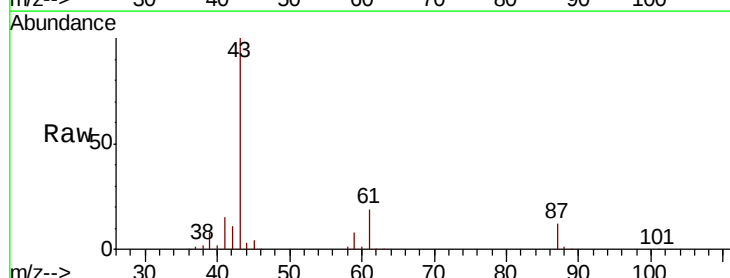
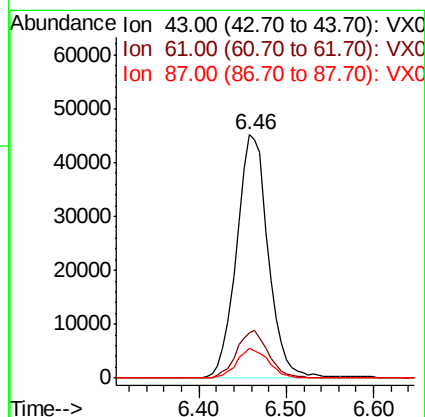
Tgt Ion: 43 Resp: 113619

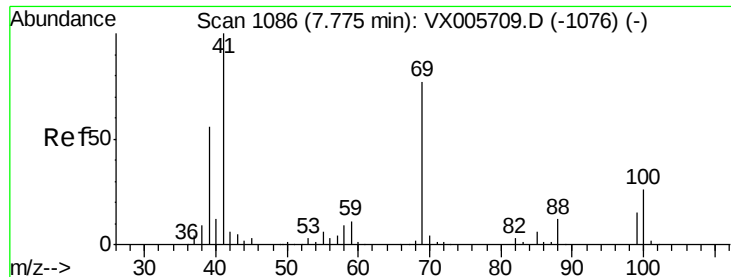
Ion Ratio Lower Upper

43 100

61 19.8 14.6 22.0

87 12.4 9.6 14.4

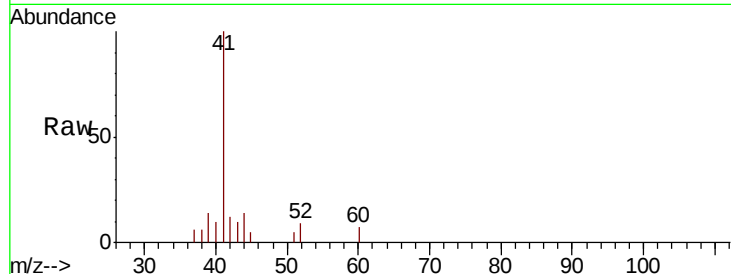




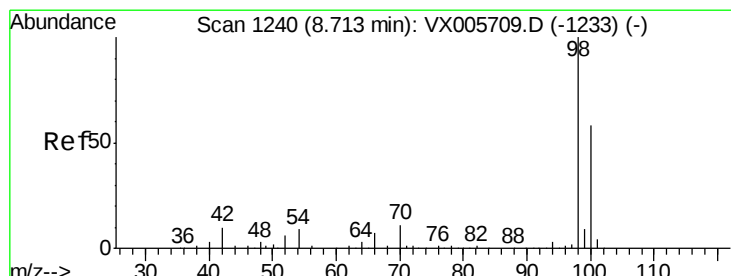
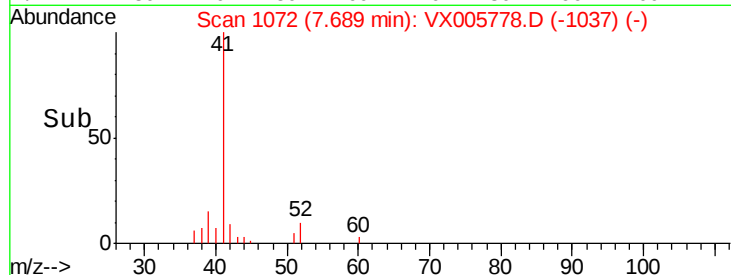
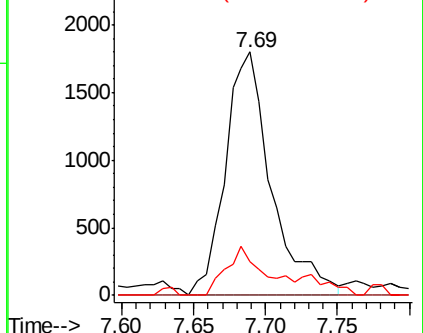
#48
Methvl methacrylate
Concen: 1.657 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 4011
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 16.9 42.2 63.2#

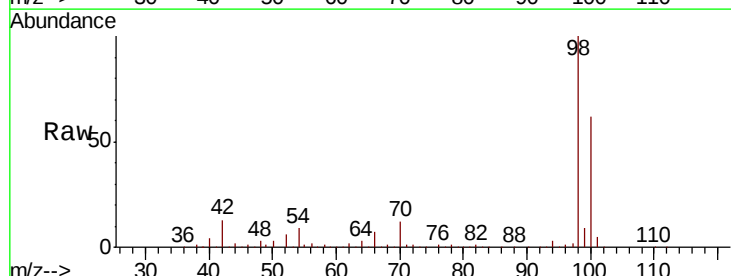


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

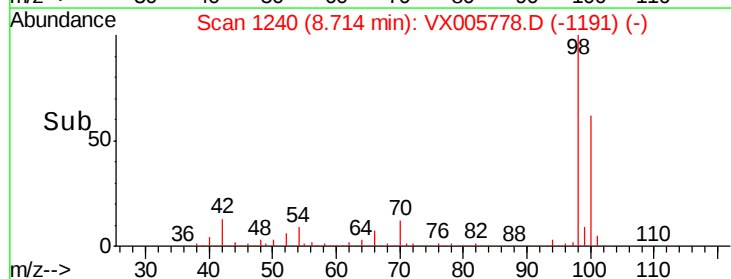
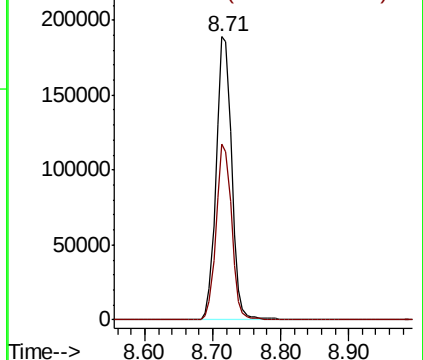


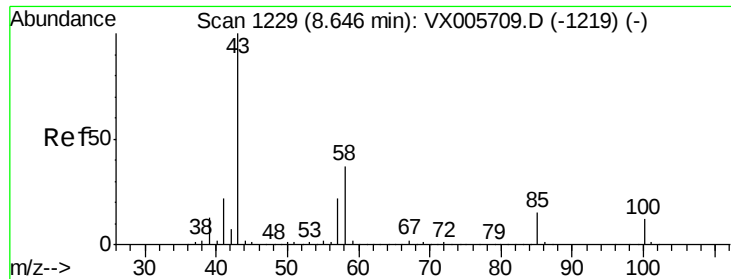
#50
Toluene-d8
Concen: 48.768 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Tgt Ion: 98 Resp: 300312
Ion Ratio Lower Upper
98 100
100 61.8 51.3 76.9



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: 0.660 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

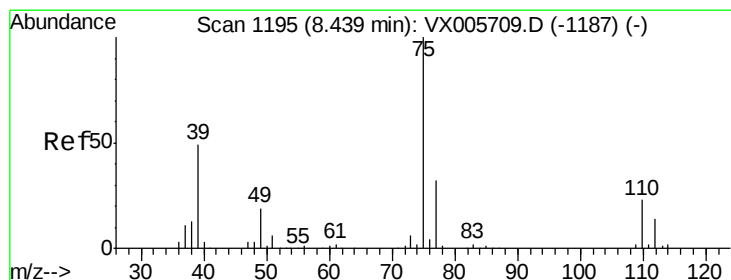
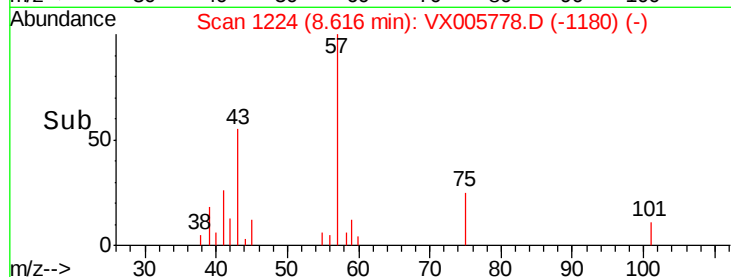
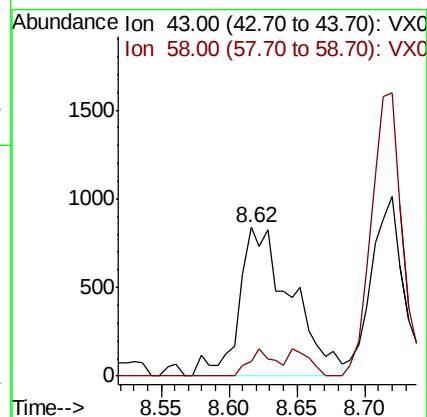
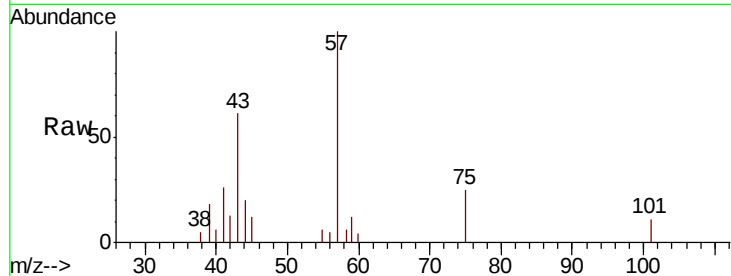
ClientSampleId :

Tot Ion: 43 Resp: 2252

Ion Ratio Lower Upper

43 100

58 8.9 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.228 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

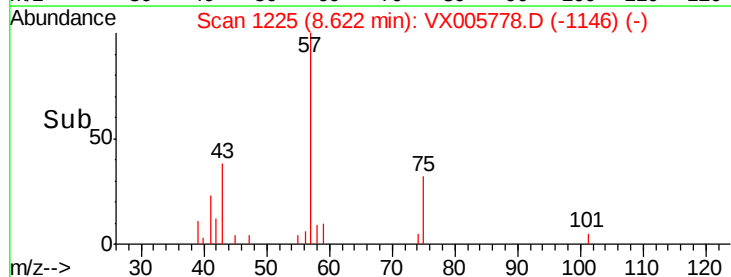
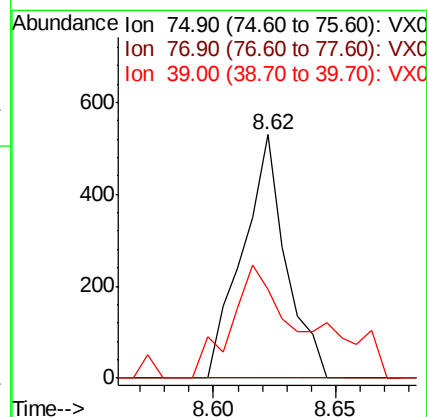
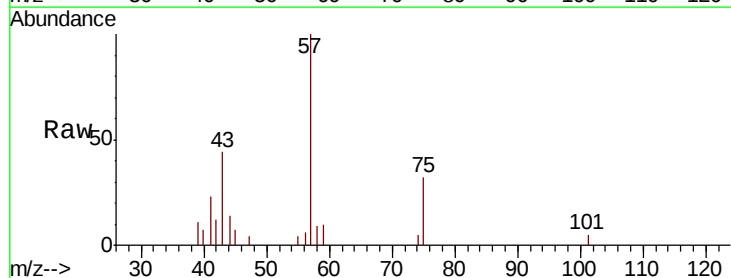
Tgt Ion: 75 Resp: 654

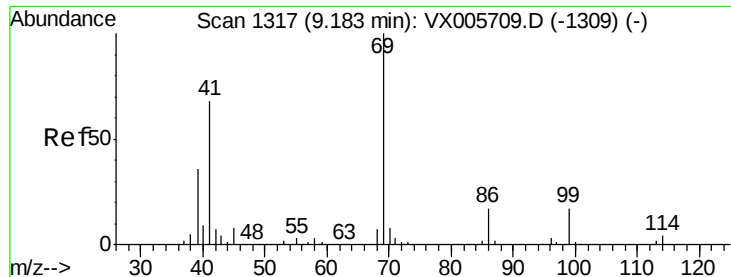
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 36.2 38.2 57.2#





#56

Ethyl methacrylate

Concen: 2.484 ug/l

RT: 9.00 min Scan# 1287

Delta R.T. -0.18 min

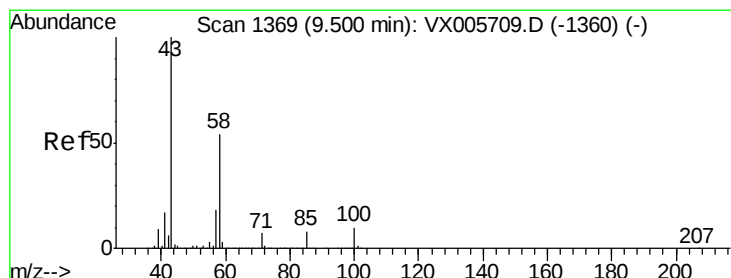
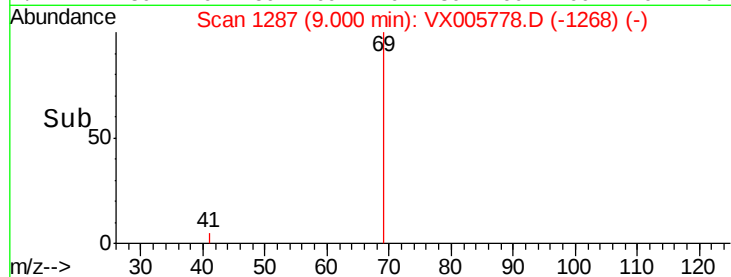
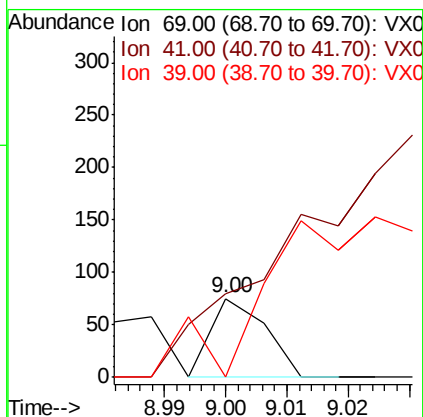
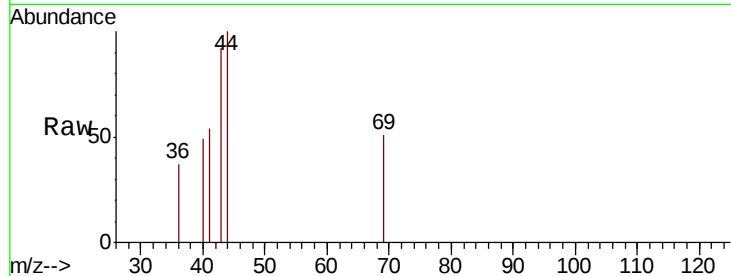
Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 69 Resp: 46

Ion	Ratio	Lower	Upper
69	100		
41	0.0	57.0	85.6#
39	0.0	28.3	42.5#



#59

2-Hexanone

Concen: 2.313 ug/l

RT: 9.55 min Scan# 1377

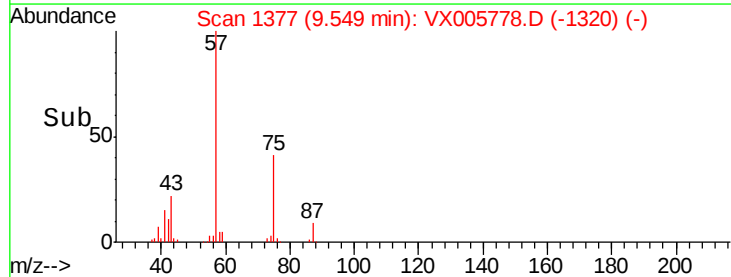
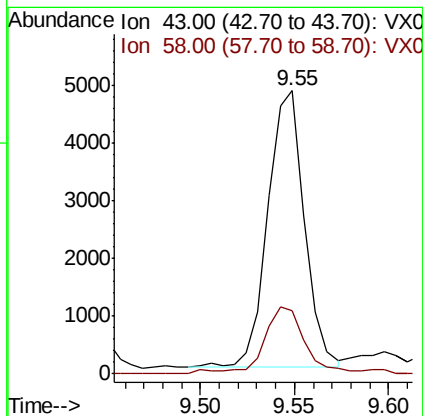
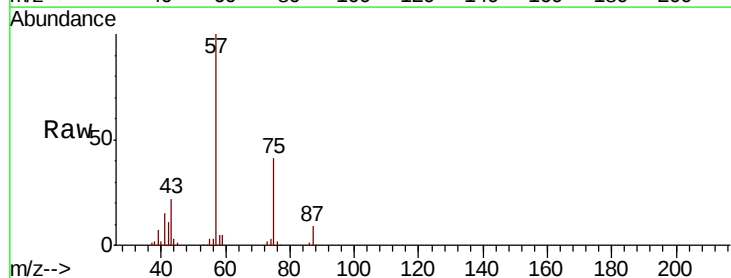
Delta R.T. 0.05 min

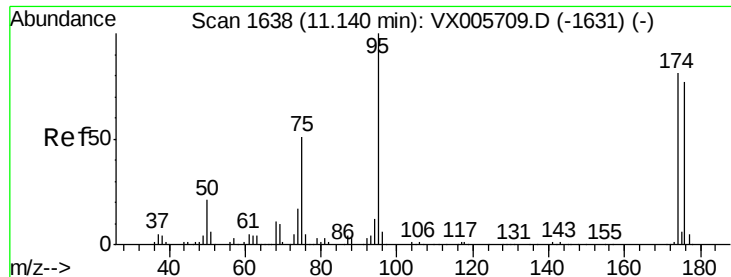
Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Tgt Ion: 43 Resp: 6420

Ion	Ratio	Lower	Upper
43	100		
58	28.2	25.9	77.8





#62

4-Bromofluorobenzene

Concen: 41.089 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

ClientSampleId :

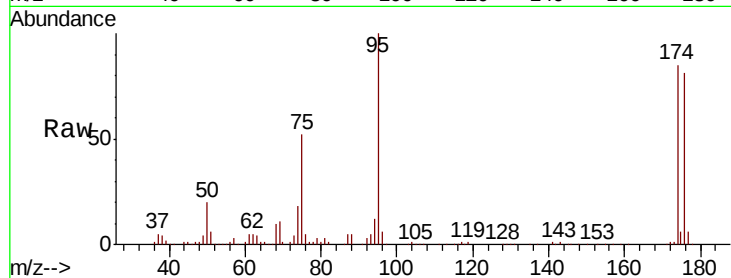
Tot Ion: 95 Resp: 93385

Ion Ratio Lower Upper

95 100

174 81.6 0.0 184.4

176 77.4 0.0 177.4

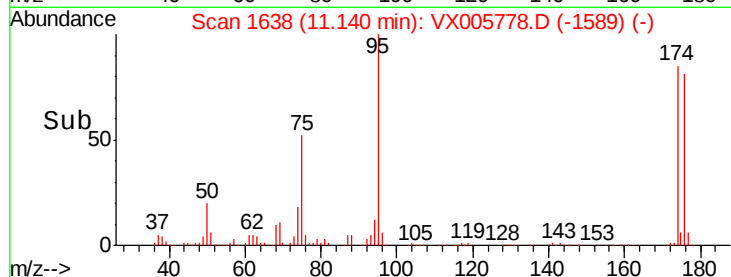


Abundance Ion 94.90 (94.60 to 95.60): VX005709.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005709.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005709.D (-1631) (-)

Time-->

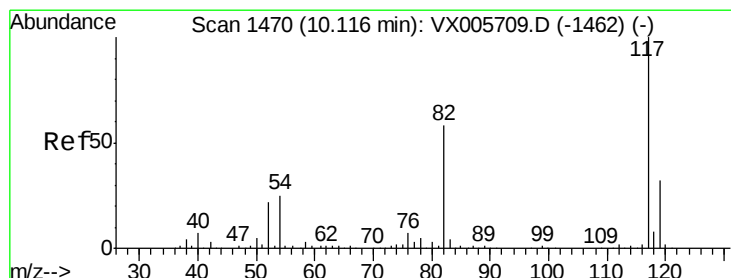


Abundance Ion 94.90 (94.60 to 95.60): VX005778.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005778.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005778.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

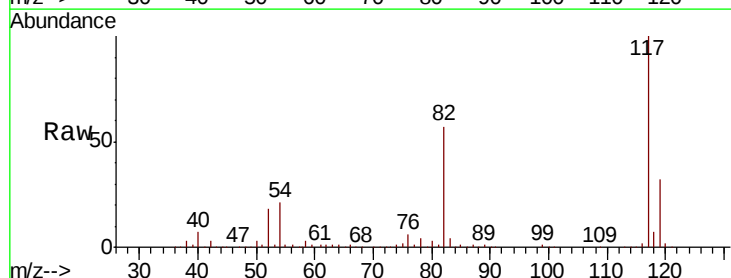
Tgt Ion: 117 Resp: 224956

Ion Ratio Lower Upper

117 100

82 57.3 44.1 66.1

119 32.2 26.2 39.2

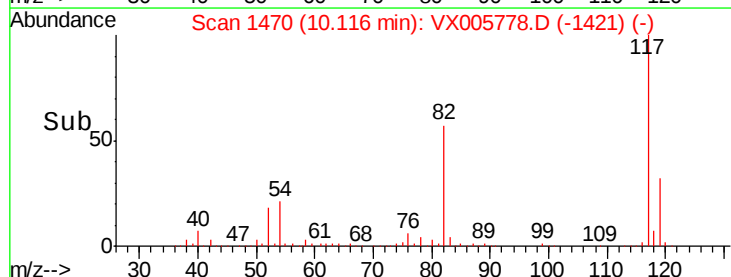


Abundance Ion 116.90 (116.60 to 117.60): VX005709.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005709.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005709.D (-1462) (-)

Time-->

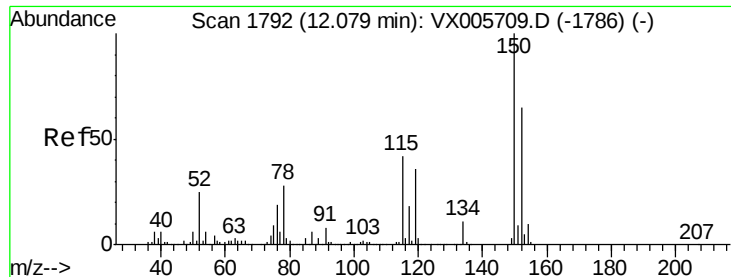


Abundance Ion 116.90 (116.60 to 117.60): VX005778.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005778.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005778.D (-1421) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

ClientSampleId :

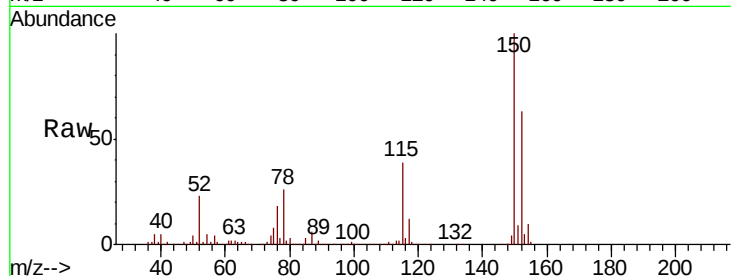
Tot Ion:152 Resp: 93145

Ion Ratio Lower Upper

152 100

115 60.2 39.4 118.1

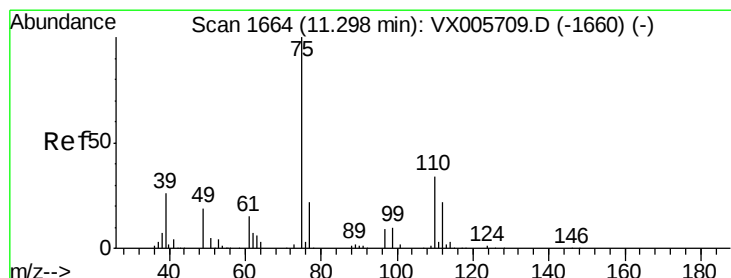
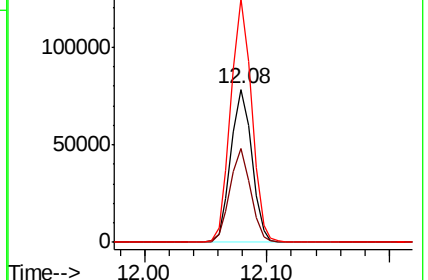
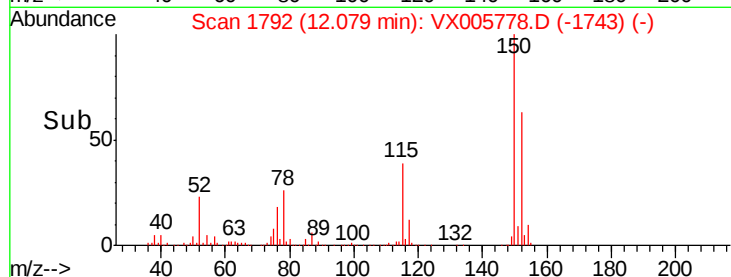
150 158.3 0.0 346.4



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: 21.090 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005778.D

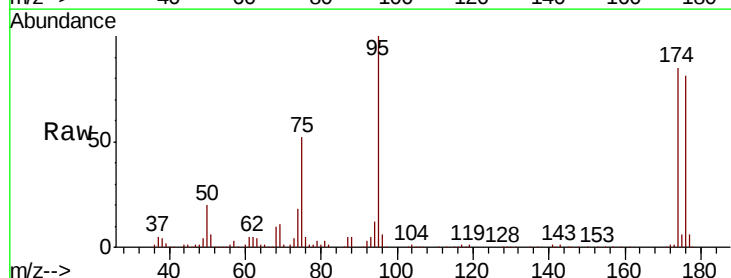
Acq: 05 Nov 2018 15:11

Tgt Ion: 75 Resp: 48926

Ion Ratio Lower Upper

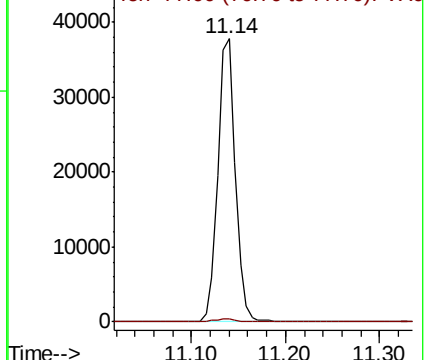
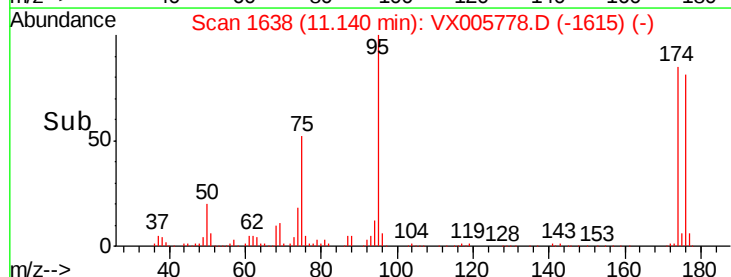
75 100

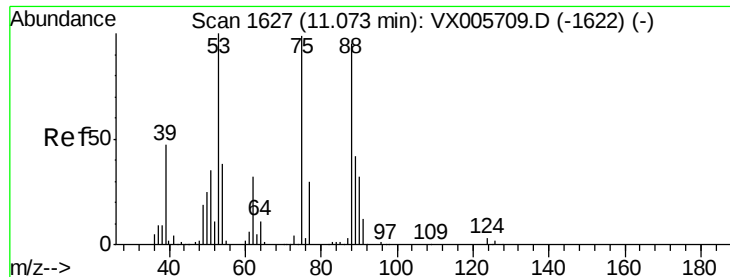
77 1.3 20.5 61.6#



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: 68.140 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005778.D

Acq: 05 Nov 2018 15:11

Instrument :

MSVOA_X

ClientSampleId :

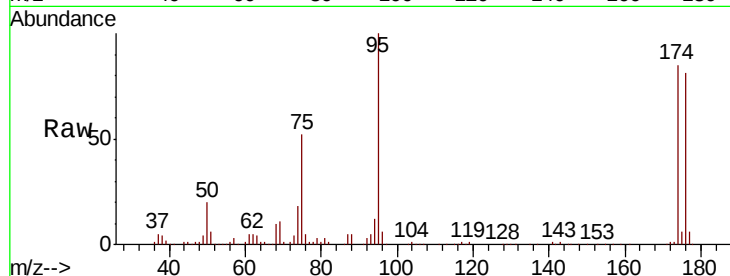
Tot Ion: 75 Resp: 48926

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

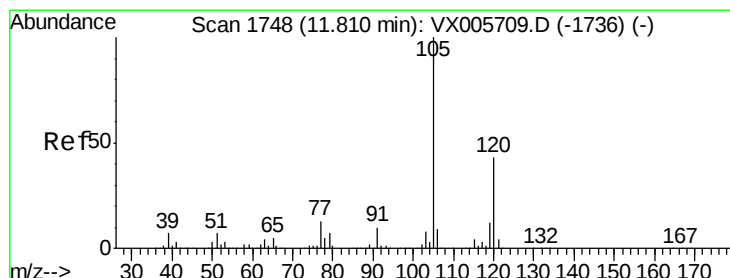
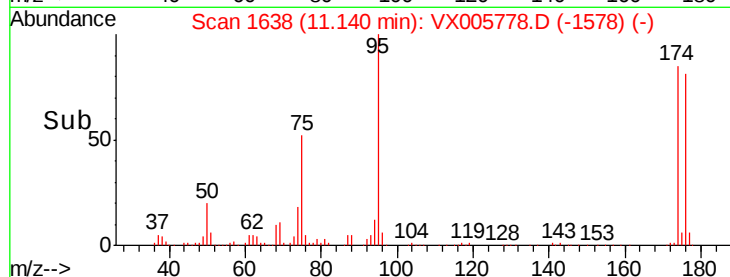
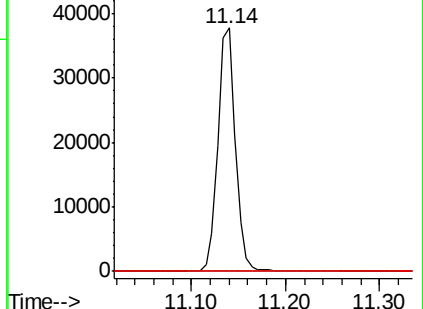
89 0.0 39.8 59.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.539 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VX005778.D

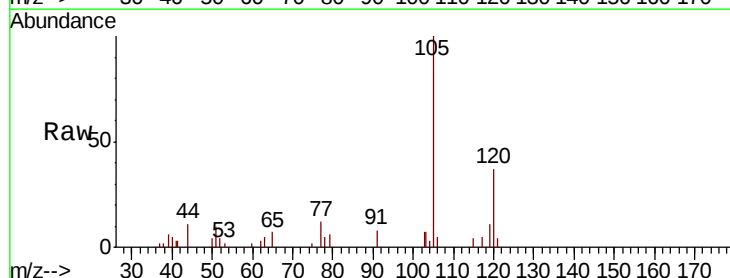
Acq: 05 Nov 2018 15:11

Tgt Ion:105 Resp: 2840

Ion Ratio Lower Upper

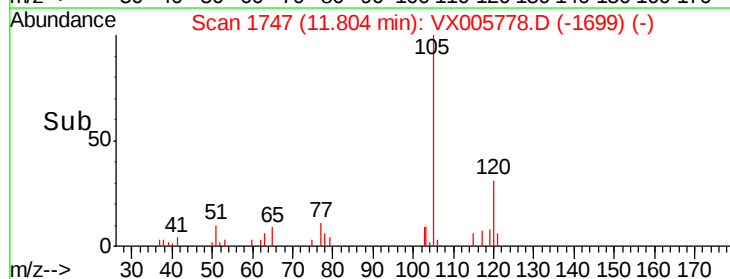
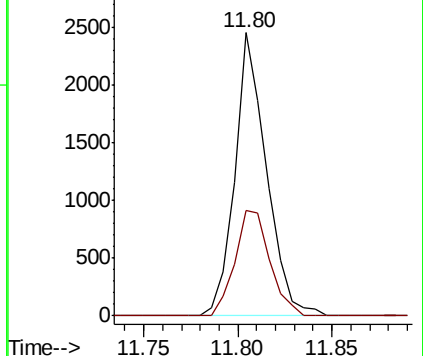
105 100

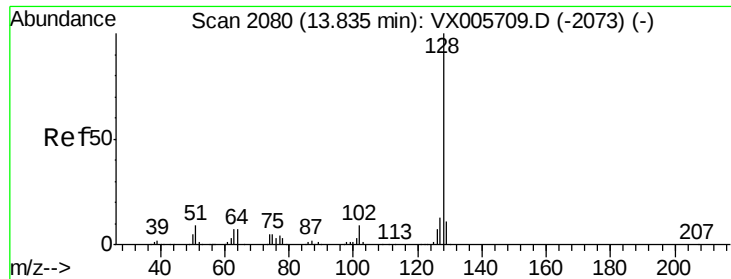
120 41.1 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 1.295 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005778.D
Acq: 05 Nov 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.4	15.6
129	10.3	8.7	13.1

