

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040919\
 Data File : VX008777.D
 Acq On : 09 Apr 2019 17:45
 Operator : JC/SP
 Sample : K2311-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 10 06:38:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	208982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344584	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	297056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123956	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	143058	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
35) Dibromofluoromethane	5.50	113	105777	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.71	98	430089	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.13	95	142227	45.72	ug/l	0.00
Spiked Amount			Recovery	=	91.44%	

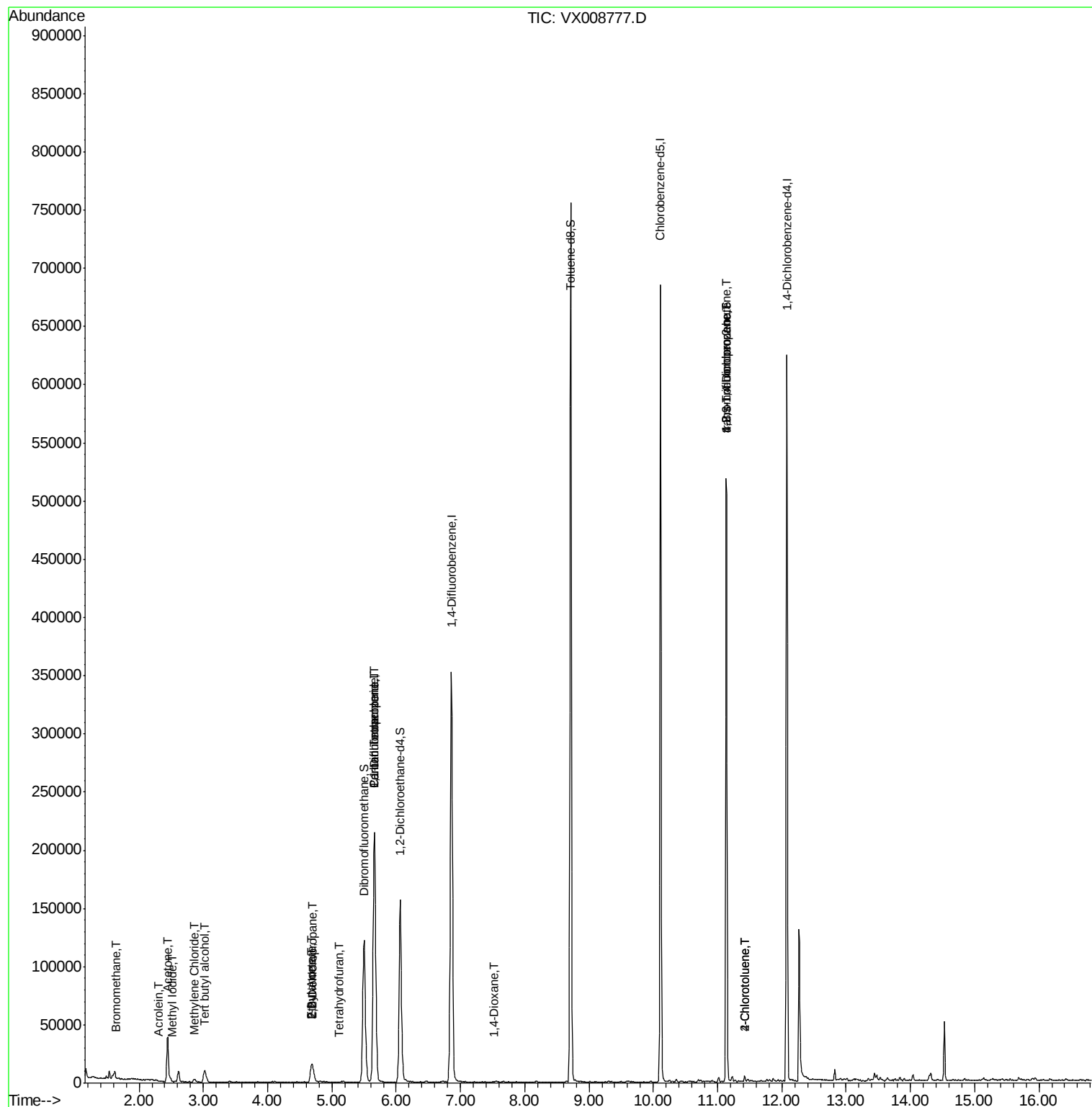
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	393	Below Cal	#	87
5) Bromomethane	1.64	94	388	2.118	ug/l #	72
6) Chloroethane	1.73	64	115	Below Cal	#	43
10) Methyl Iodide	2.52	142	95	4.045	ug/l #	42
11) Tert butyl alcohol	3.02	59	9240	12.948	ug/l #	87
13) Acrolein	2.31	56	234	0.661	ug/l #	61
16) Acetone	2.45	43	43796	24.946	ug/l	97
17) Carbon Disulfide	2.57	76	823	Below Cal	#	75
20) Methylene Chloride	2.85	84	1086	0.370	ug/l #	79
25) 2-Butanone	4.68	43	15338	5.528	ug/l	99
26) 2,2-Dichloropropane	4.69	77	846	0.228	ug/l #	53
28) Bromochloromethane	4.96	49	26	Below Cal	#	22
29) Tetrahydrofuran	5.12	42	375	0.204	ug/l #	38
36) 1,1-Dichloropropene	5.66	75	16970	4.505	ug/l #	51
37) Ethyl Acetate	4.68	43	15338	3.051	ug/l #	70
38) Carbon Tetrachloride	5.67	117	19806	6.353	ug/l #	16
49) 1,4-Dioxane	7.52	88	19	0.255	ug/l #	19
76) 1,2,3-Trichloropropane	11.13	75	71712	21.060	ug/l #	34
79) 2-Chlorotoluene	11.42	91	1863	0.257	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	71712	58.052	ug/l #	9
82) 4-Chlorotoluene	11.42	91	1863	0.222	ug/l	93

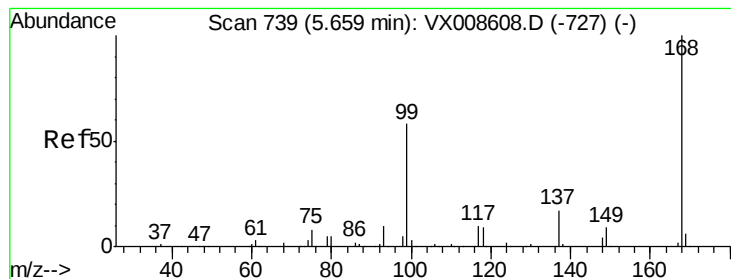
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

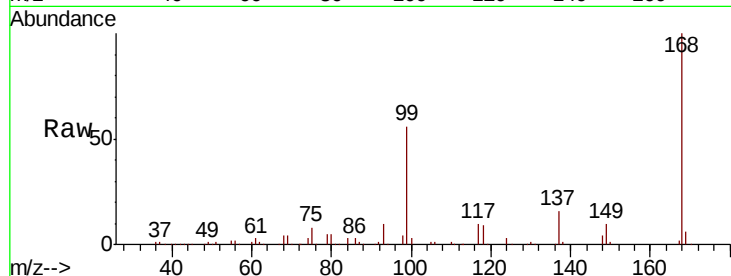
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 208982

Ion Ratio Lower Upper

168 100

99 55.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

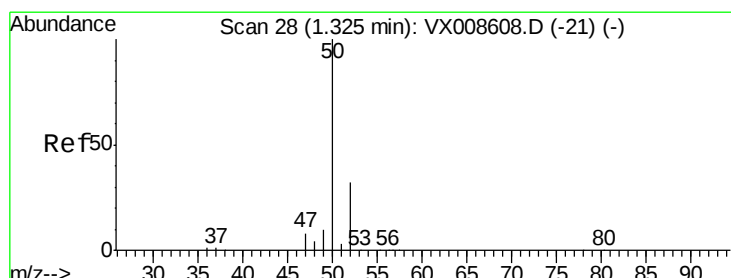
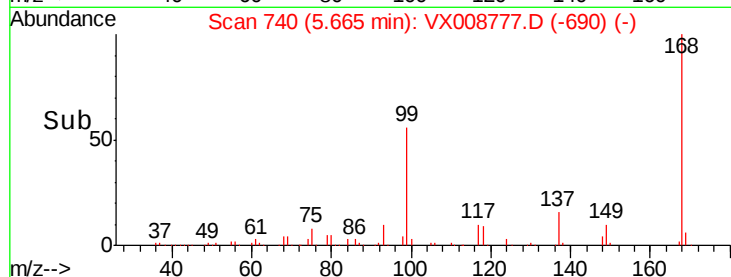
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008777.D

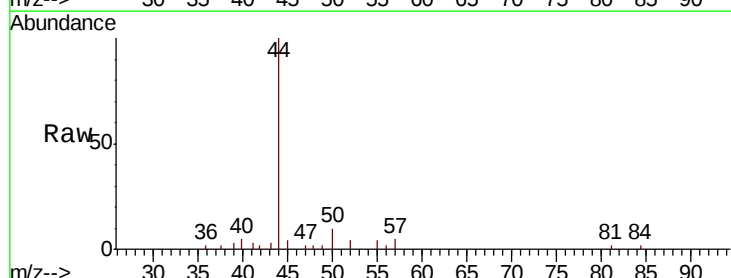
Acq: 09 Apr 2019 17:45

Tgt Ion: 50 Resp: 393

Ion Ratio Lower Upper

50 100

52 39.8 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

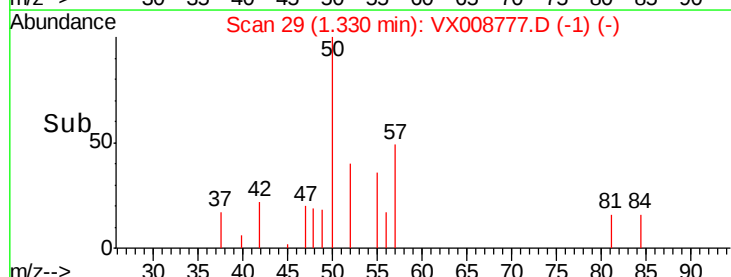
300

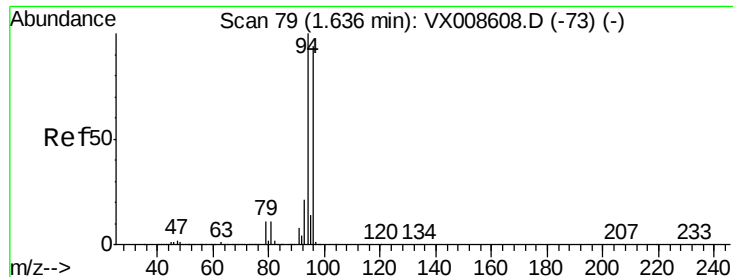
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.118 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

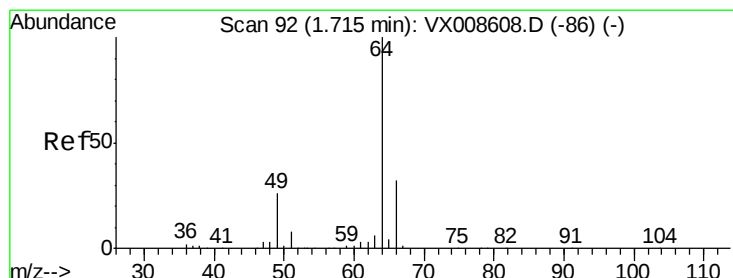
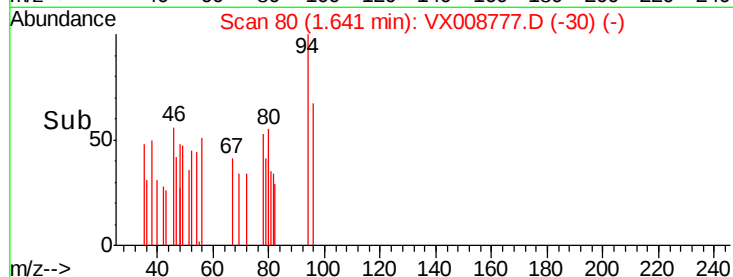
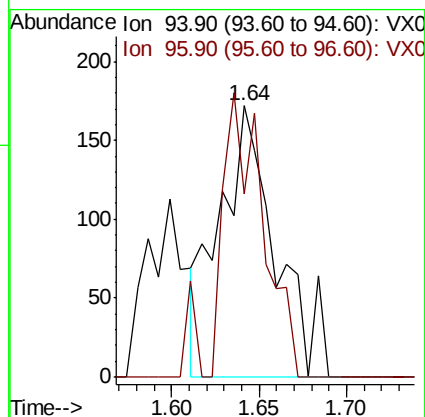
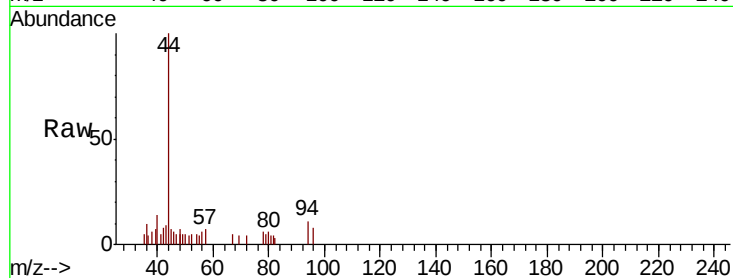
ClientSampled :

Tot Ion: 94 Resp: 388

Ion Ratio Lower Upper

94 100

96 67.4 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX008777.D

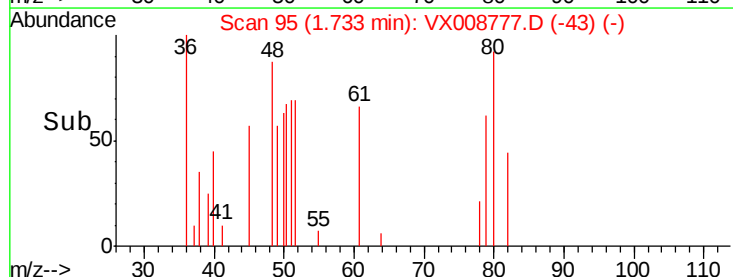
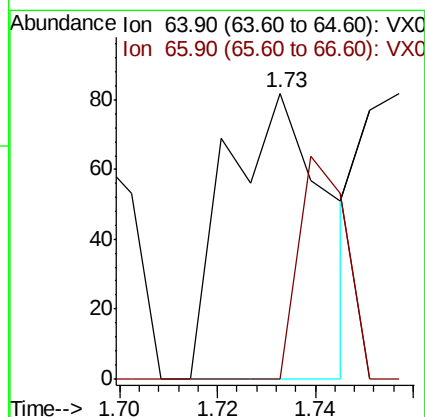
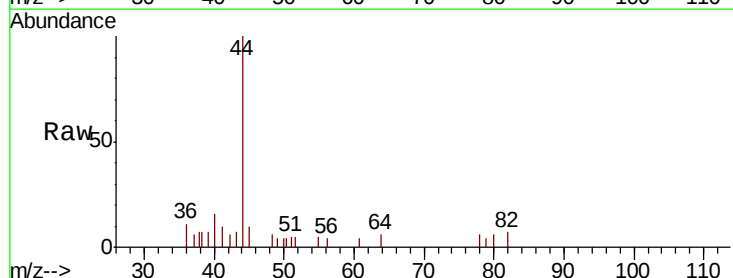
Acq: 09 Apr 2019 17:45

Tgt Ion: 64 Resp: 115

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#

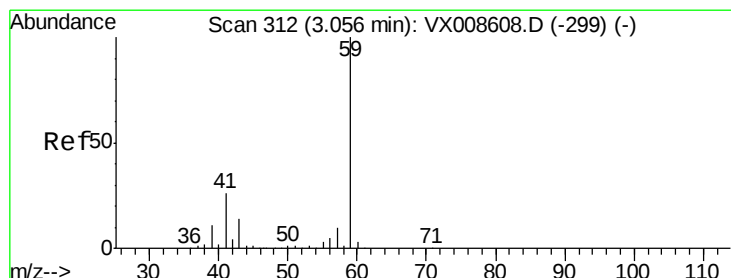
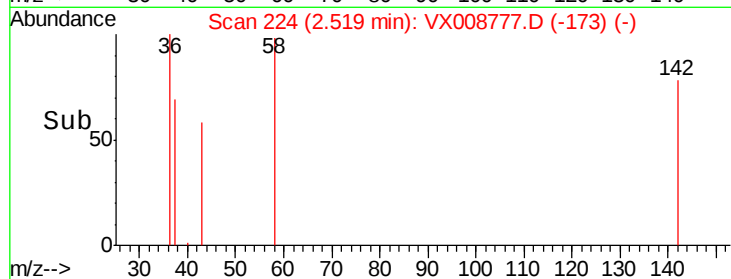
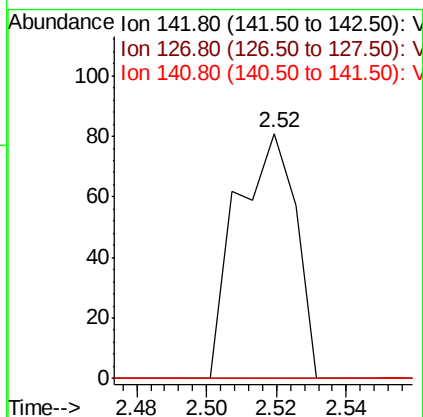
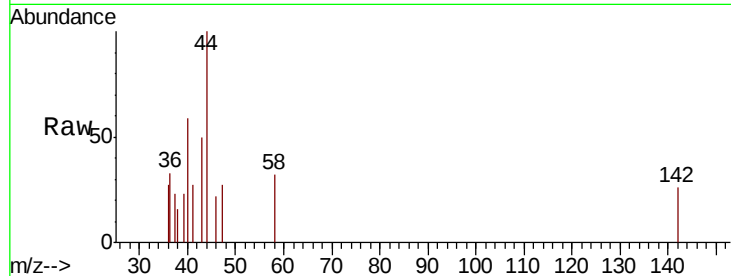




#10
Methvl Iodide
Concen: 4.045 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008777.D
Acq: 09 Apr 2019 17:45

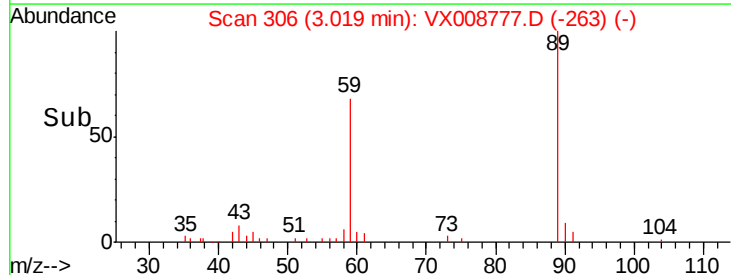
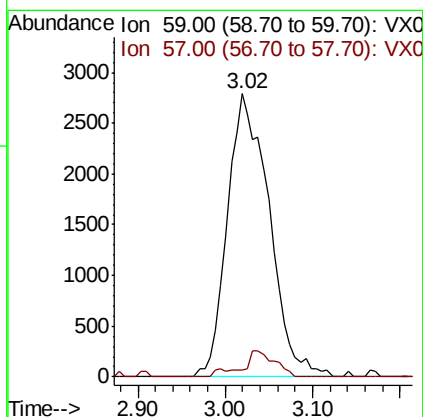
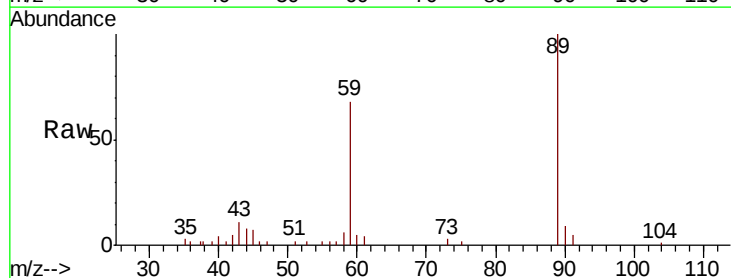
Instrument :
MSVOA_X
ClientSampleId :

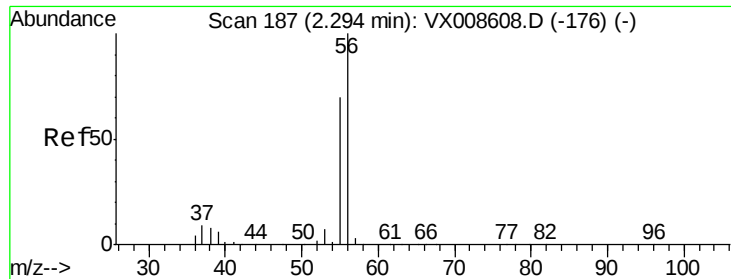
Tot Ion:142 Resp: 95
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 12.948 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008777.D
Acq: 09 Apr 2019 17:45

Tgt Ion: 59 Resp: 9240
Ion Ratio Lower Upper
59 100
57 5.5 8.3 12.5#





#13

Acrolein

Concen: 0.661 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

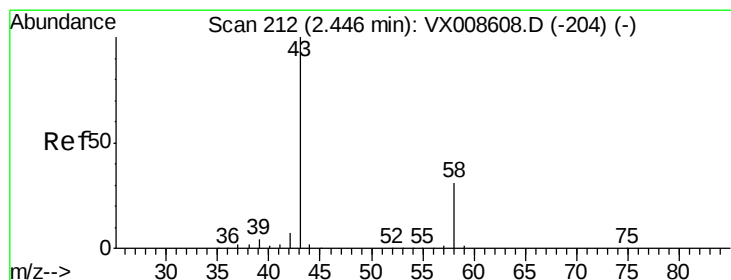
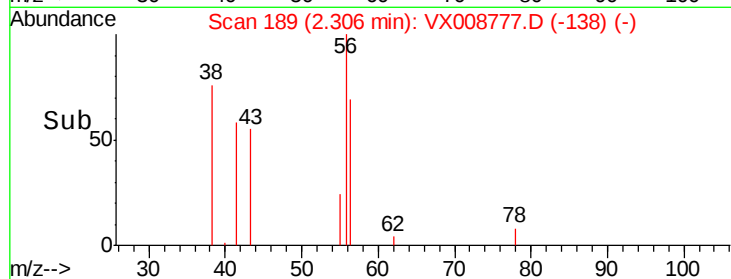
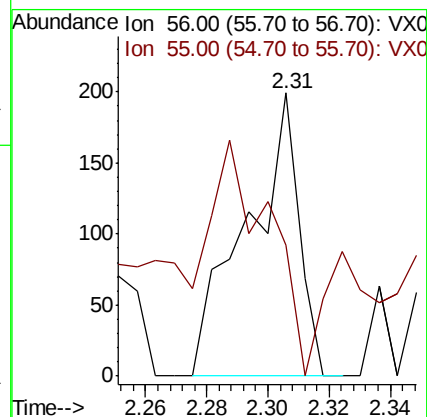
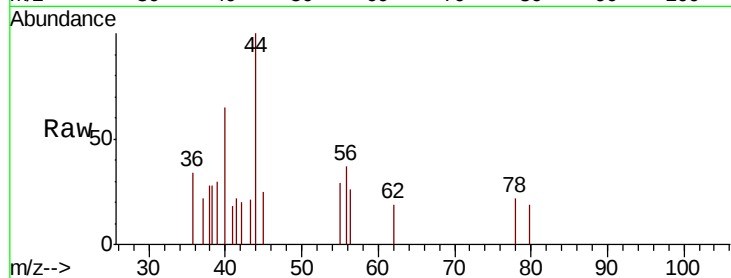
ClientSampleId :

Tot Ion: 56 Resp: 234

Ion Ratio Lower Upper

56 100

55 39.7 58.0 87.0#



#16

Acetone

Concen: 24.946 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008777.D

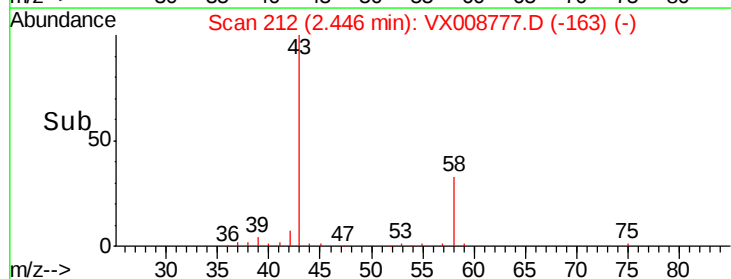
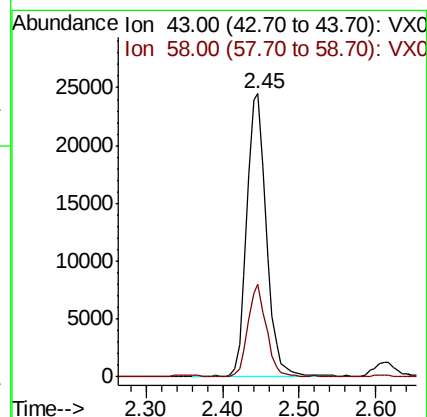
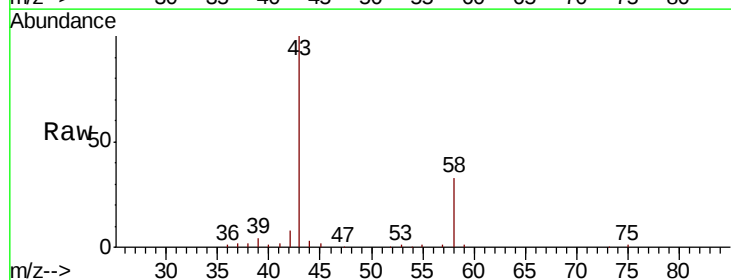
Acq: 09 Apr 2019 17:45

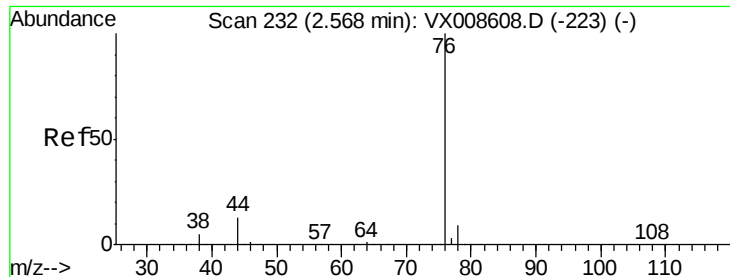
Tgt Ion: 43 Resp: 43796

Ion Ratio Lower Upper

43 100

58 32.6 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

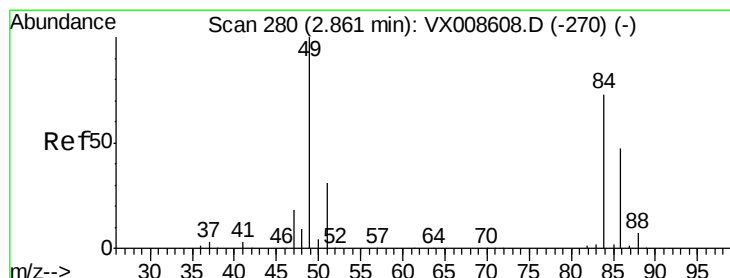
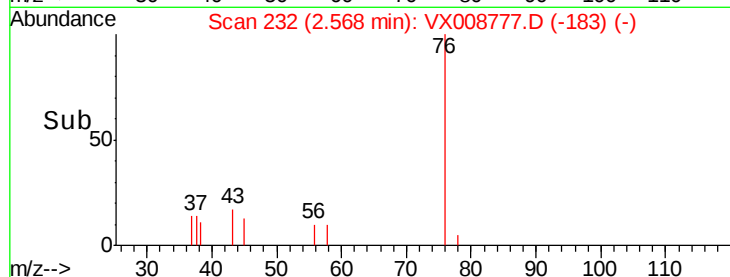
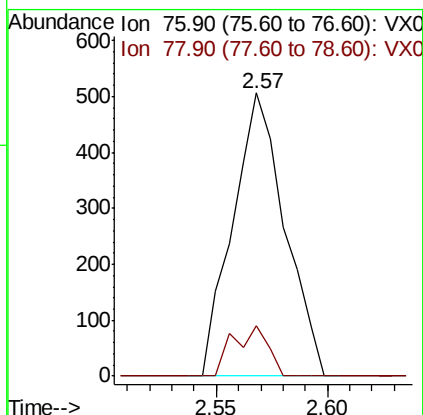
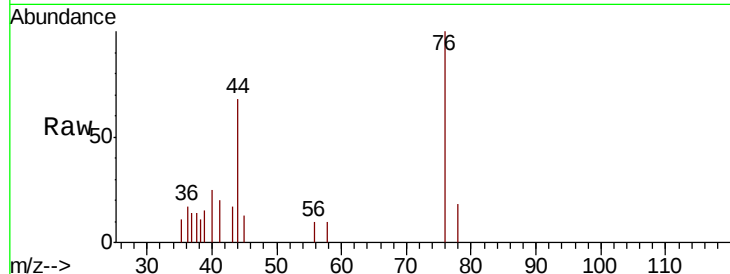
ClientSampleId :

Tot Ion: 76 Resp: 823

Ion Ratio Lower Upper

76 100

78 17.8 7.1 10.7#



#20

Methylene Chloride

Concen: 0.370 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Tgt Ion: 84 Resp: 1086

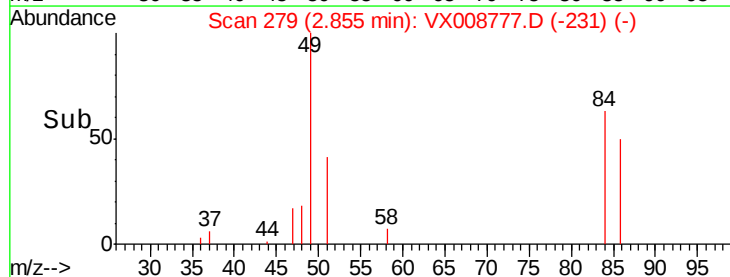
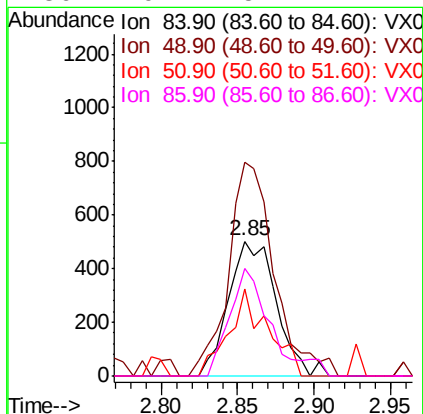
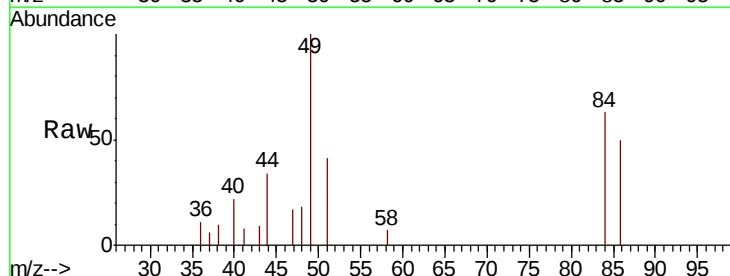
Ion Ratio Lower Upper

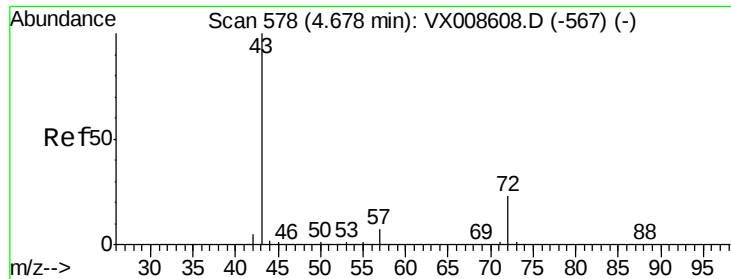
84 100

49 158.6 109.7 164.5

51 64.3 33.6 50.4#

86 79.7 51.4 77.2#





#25

2-Butanone

Concen: 5.528 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.00 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

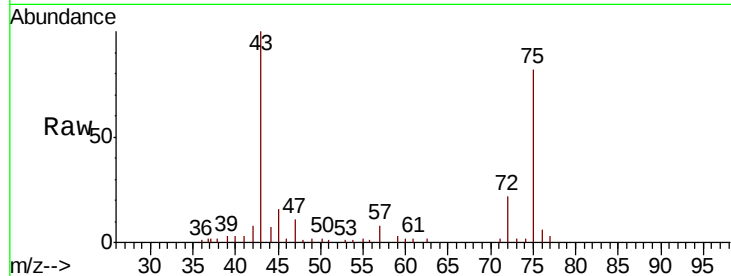
ClientSampled :

Tot Ion: 43 Resp: 15338

Ion Ratio Lower Upper

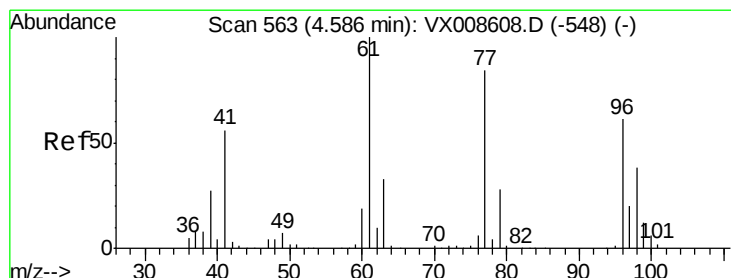
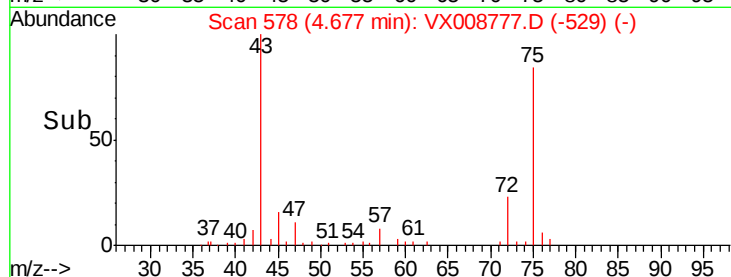
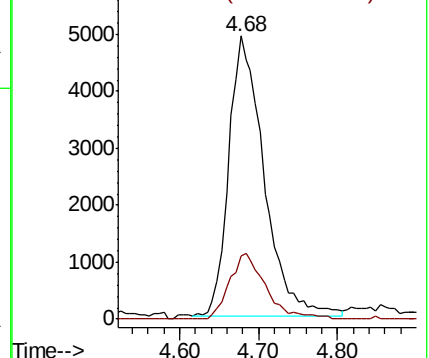
43 100

72 22.5 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.228 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.10 min

Lab File: VX008777.D

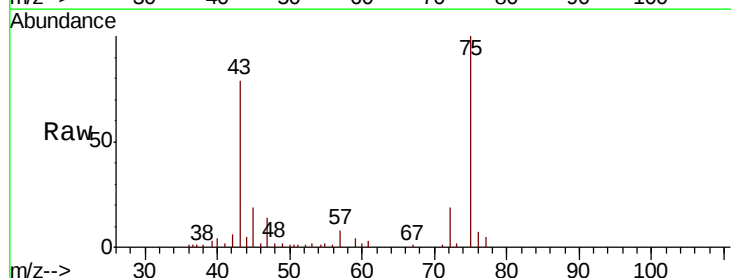
Acq: 09 Apr 2019 17:45

Tgt Ion: 77 Resp: 846

Ion Ratio Lower Upper

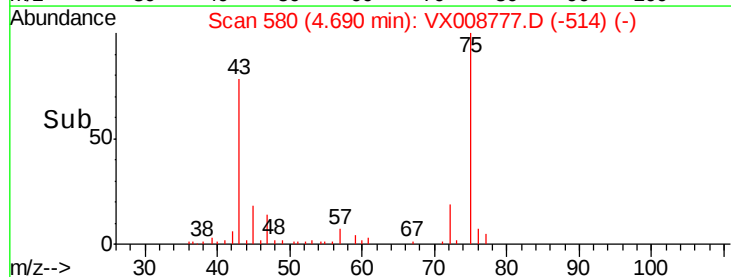
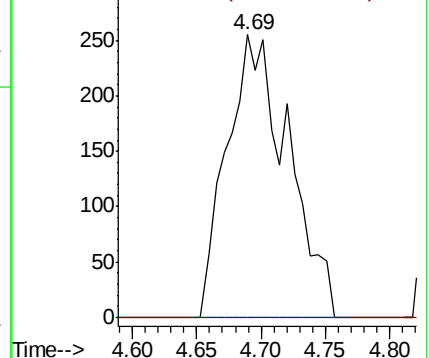
77 100

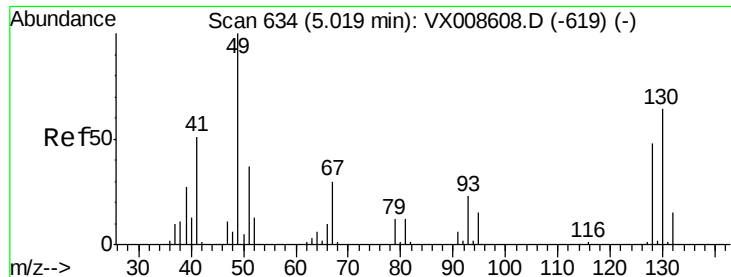
97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.96 min Scan# 624

Delta R.T. -0.06 min

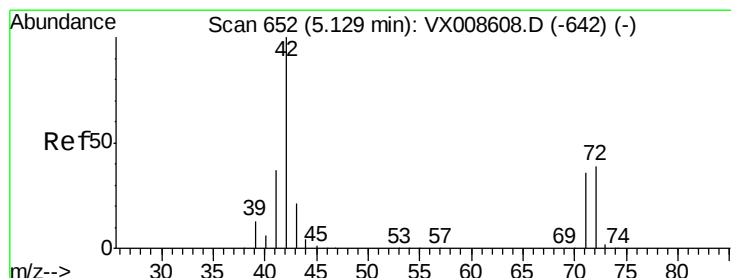
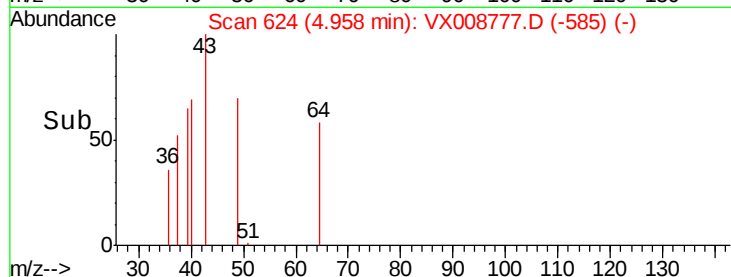
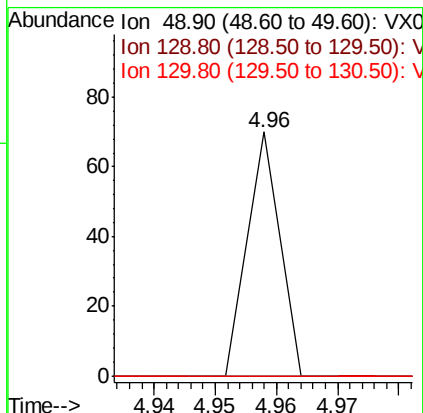
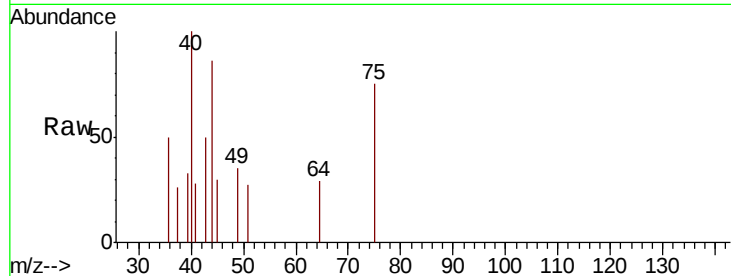
Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 26

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 5.12 min Scan# 650

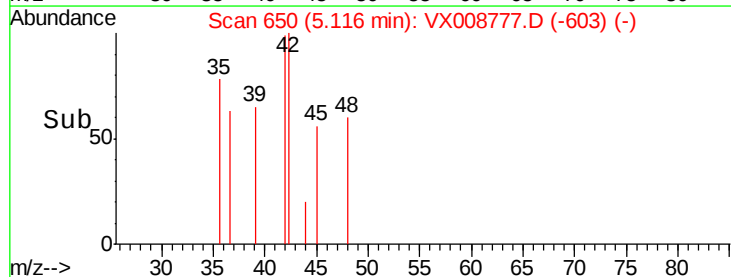
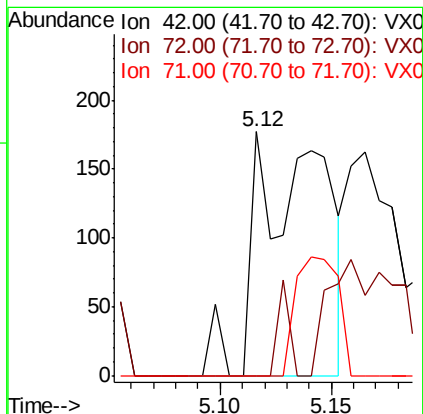
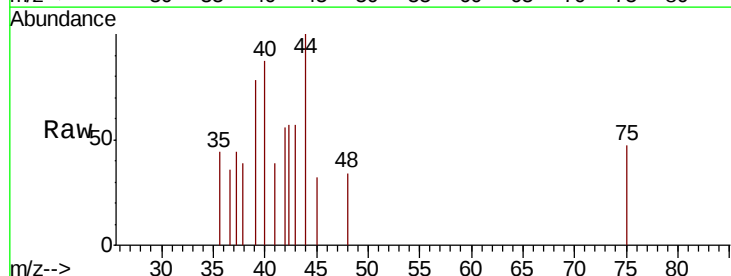
Delta R.T. -0.01 min

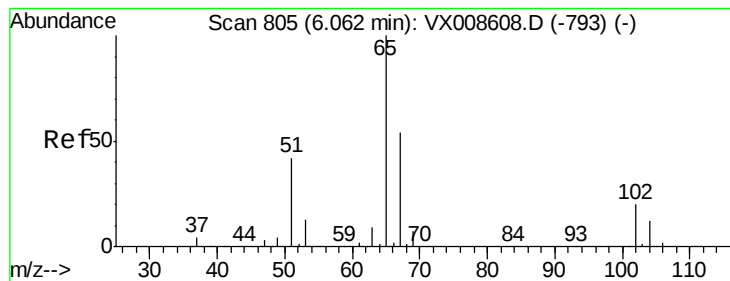
Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Tgt Ion: 42 Resp: 375

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.5	45.7#
71	0.0	28.6	43.0#





#33

1,2-Dichloroethane-d4

Concen: 46.933 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

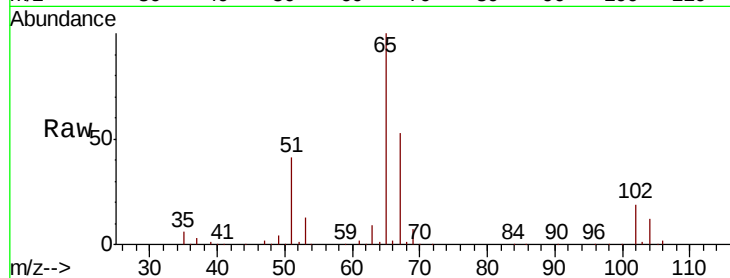
ClientSampleId :

Tot Ion: 65 Resp: 143058

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

30000

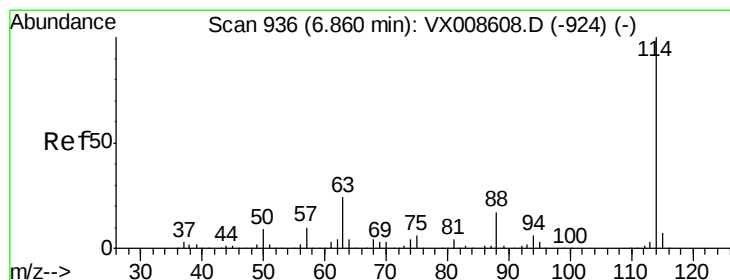
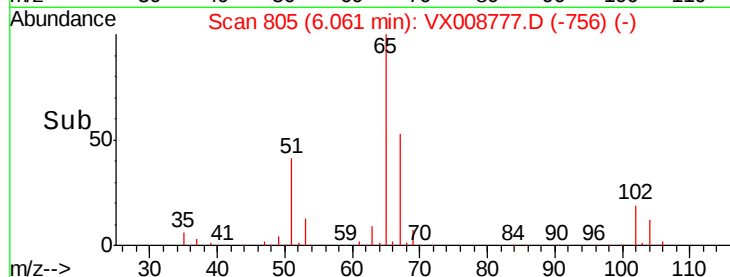
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

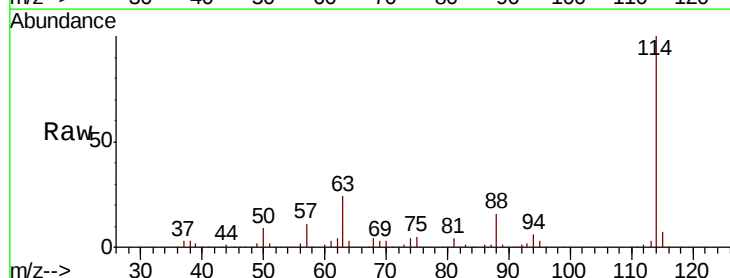
Tgt Ion: 114 Resp: 344584

Ion Ratio Lower Upper

114 100

63 23.6 0.0 47.2

88 16.2 0.0 34.0



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

200000

150000

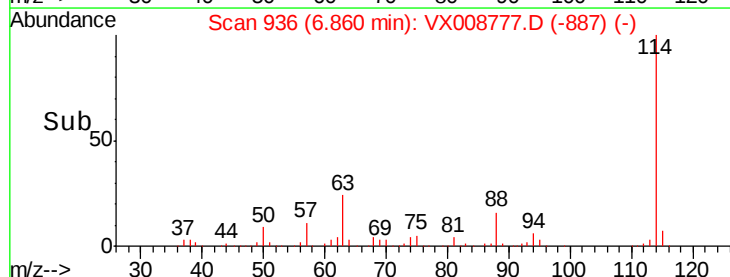
100000

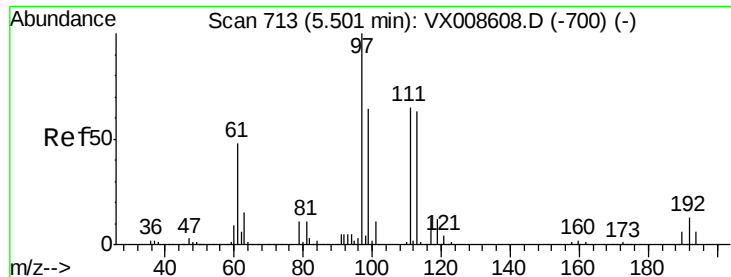
50000

0

Time-->

6.70 6.80 6.90 7.00

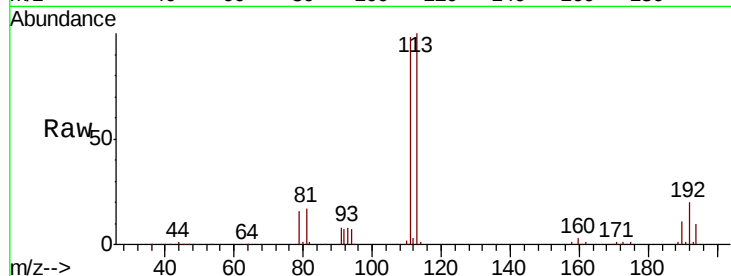




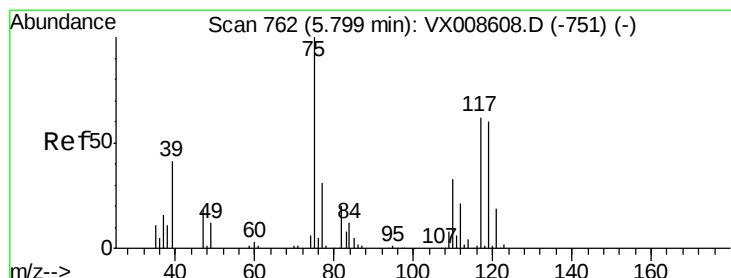
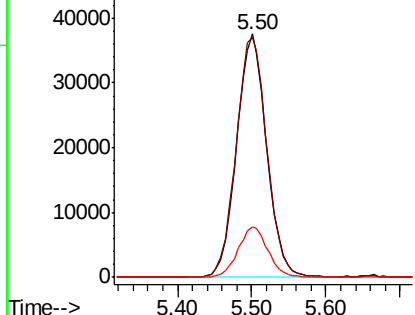
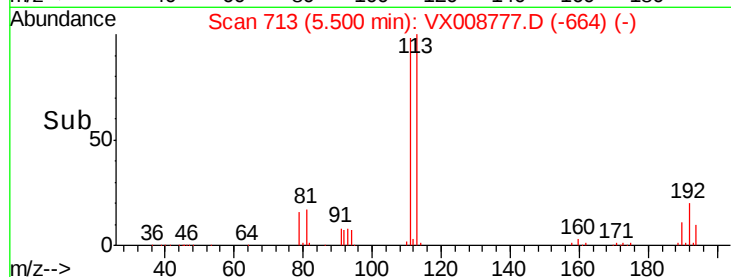
#35
 Dibromofluoromethane
 Concen: 48.012 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008777.D
 Acq: 09 Apr 2019 17:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	83.4	125.2
192	20.6	16.1	24.1

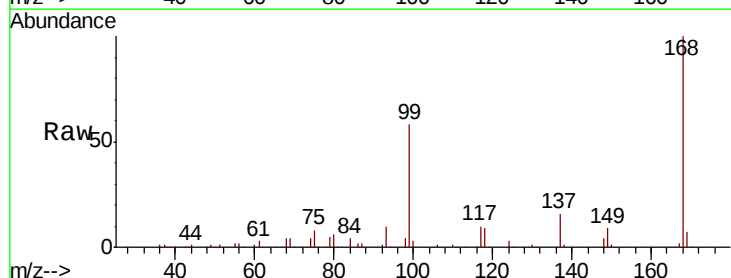


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

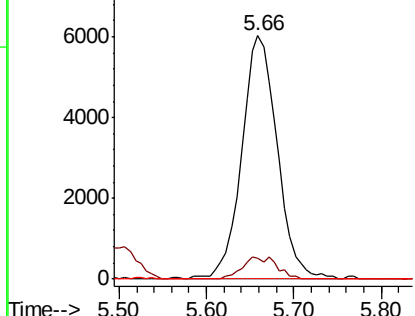
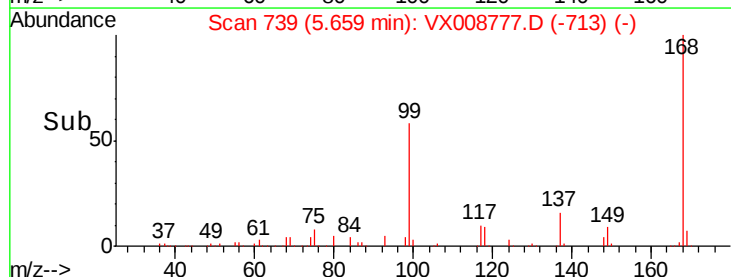


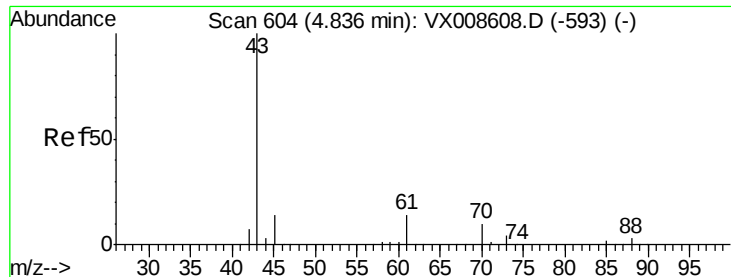
#36
 1,1-Dichloropropene
 Concen: 4.505 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008777.D
 Acq: 09 Apr 2019 17:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.4	49.2#
77	0.0	24.7	37.1#



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: 3.051 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.16 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

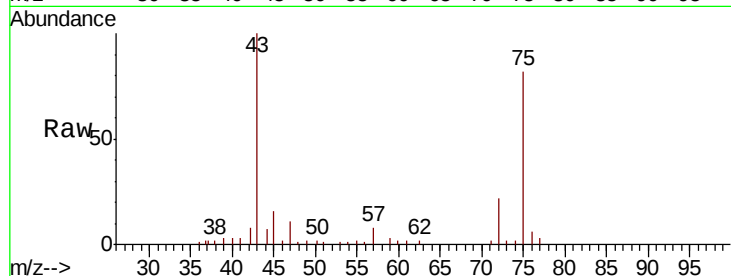
Tot Ion: 43 Resp: 15338

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

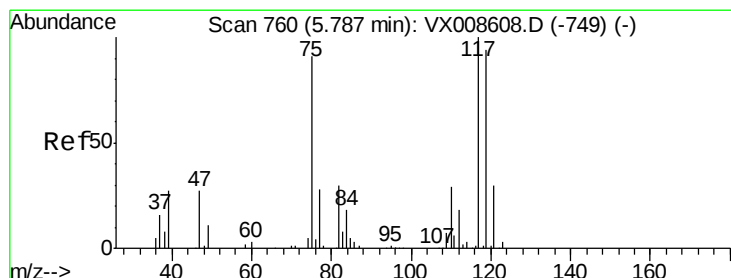
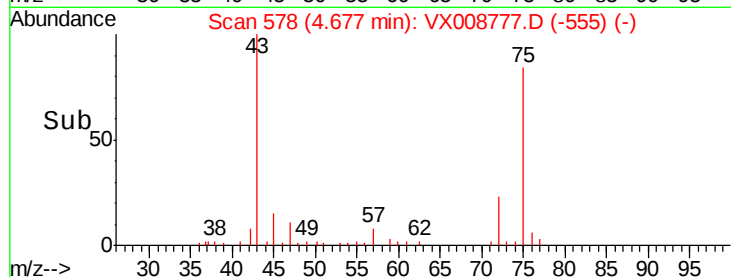
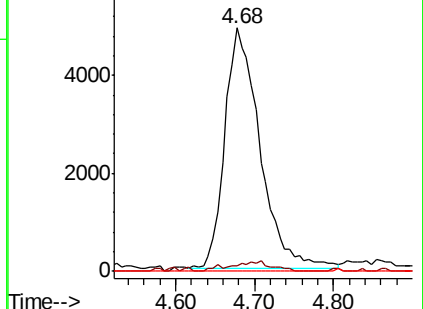
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX008608.D (-593) (-)

Ion 60.90 (60.60 to 61.60): VX008608.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX008608.D (-593) (-)



#38

Carbon Tetrachloride

Concen: 6.353 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

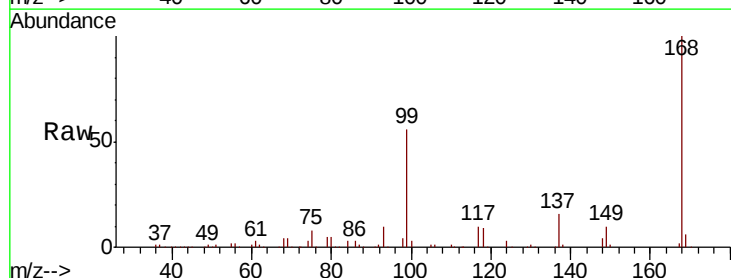
Tgt Ion: 117 Resp: 19806

Ion Ratio Lower Upper

117 100

119 4.1 75.0 112.6#

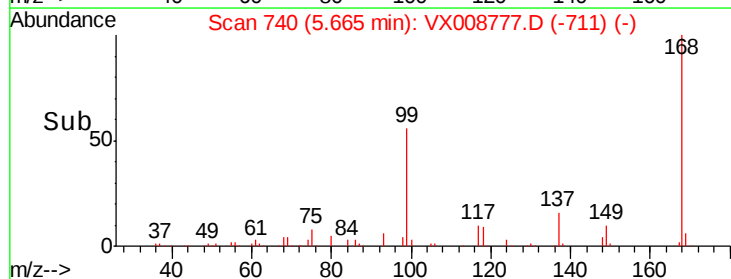
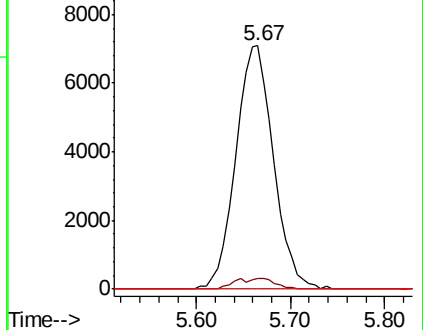
121 0.0 24.3 36.5#

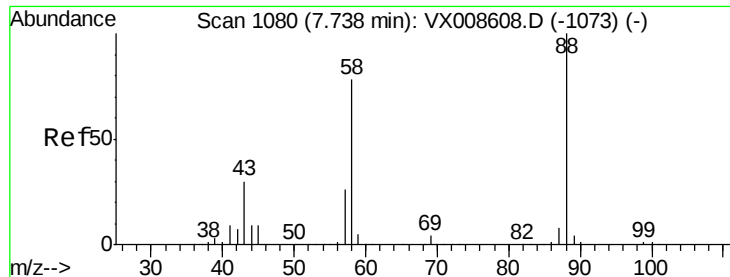


Abundance Ion 116.80 (116.50 to 117.50): VX008608.D (-749) (-)

Ion 118.80 (118.50 to 119.50): VX008608.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX008608.D (-749) (-)





#49

1,4-Dioxane

Concen: 0.255 ug/l

RT: 7.52 min Scan# 1045

Delta R.T. -0.21 min

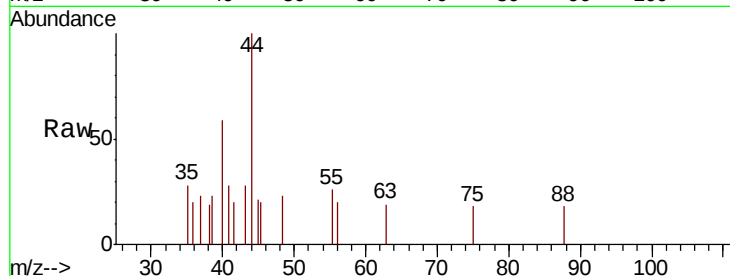
Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

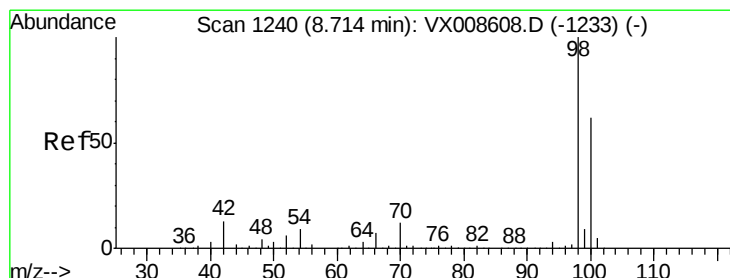
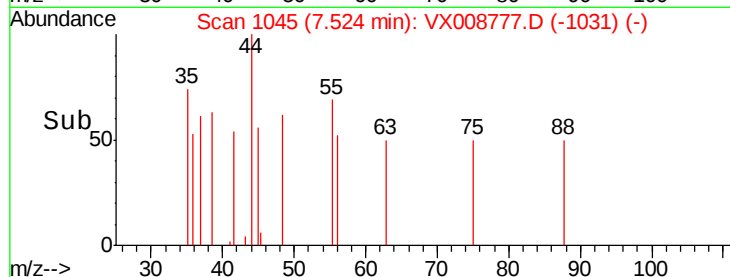
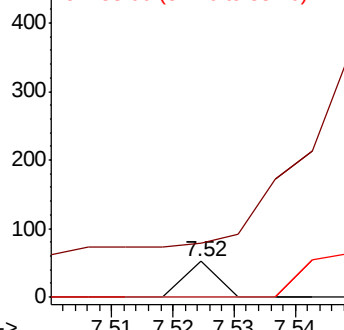
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 19

Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.6	43.0#
58	0.0	62.2	93.2#



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: 49.028 ug/l

RT: 8.71 min Scan# 1240

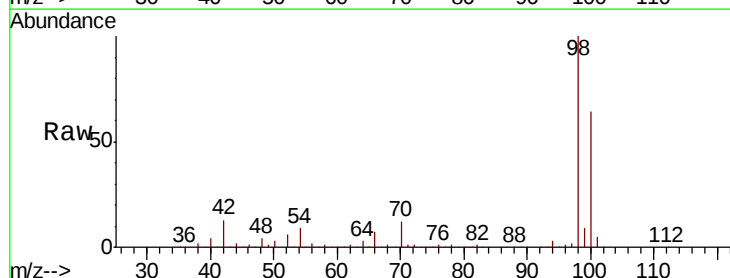
Delta R.T. -0.00 min

Lab File: VX008777.D

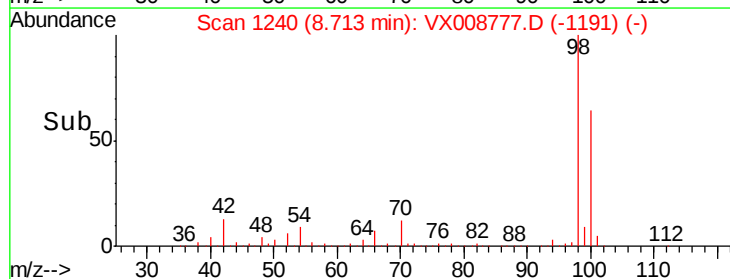
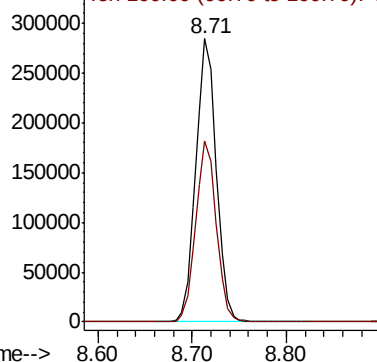
Acq: 09 Apr 2019 17:45

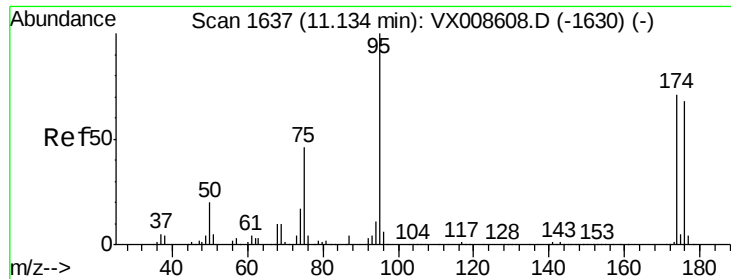
Tgt Ion: 98 Resp: 430089

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.4	77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

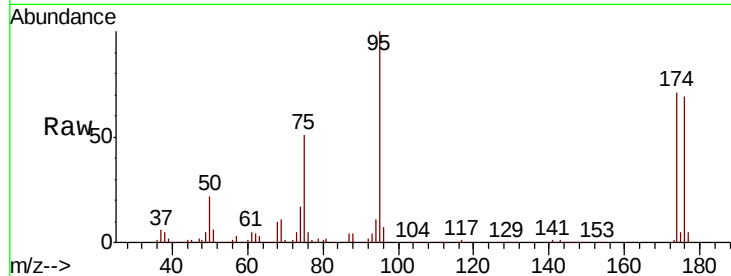




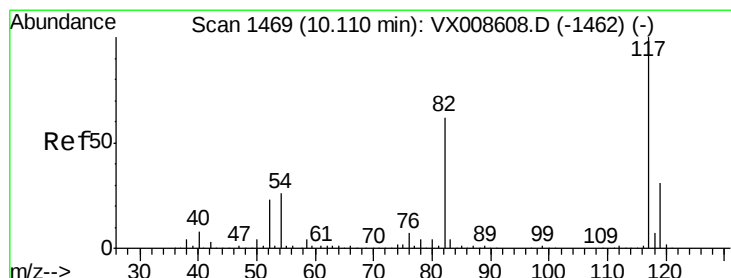
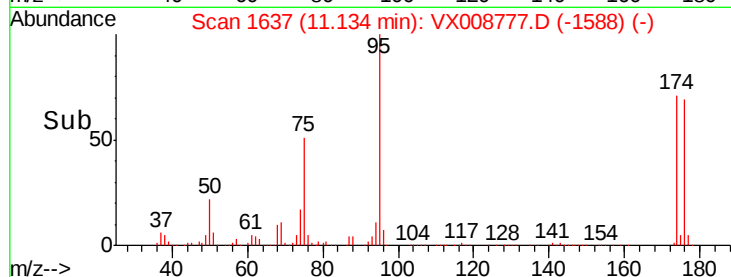
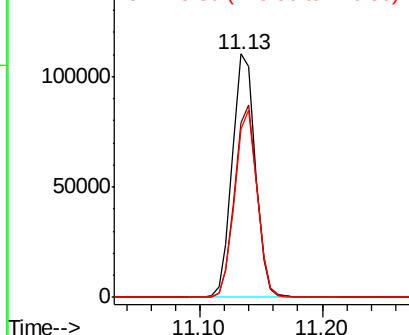
#62
4-Bromofluorobenzene
Concen: 45.720 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008777.D
Acq: 09 Apr 2019 17:45

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 95 Resp: 142227
Ion Ratio Lower Upper
95 100
174 77.3 0.0 151.8
176 74.9 0.0 145.8

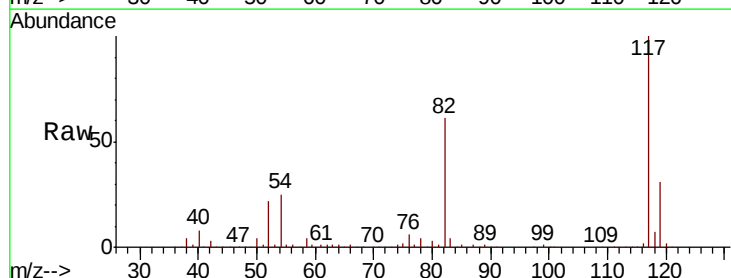


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

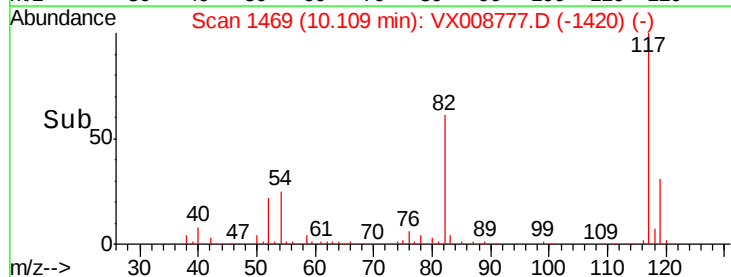
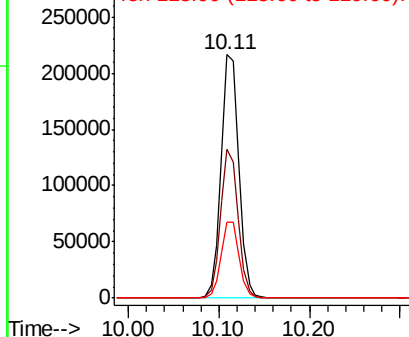


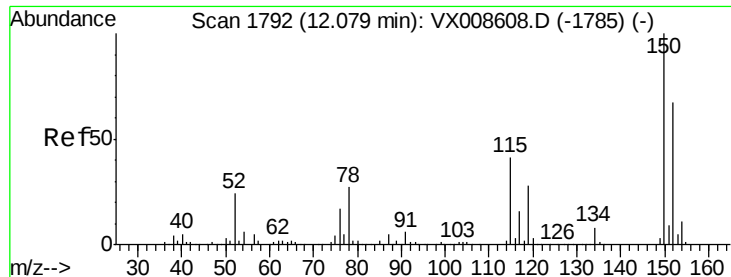
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008777.D
Acq: 09 Apr 2019 17:45

Tgt Ion: 117 Resp: 297056
Ion Ratio Lower Upper
117 100
82 61.2 49.6 74.4
119 31.3 25.0 37.4



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008777.D

Acq: 09 Apr 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

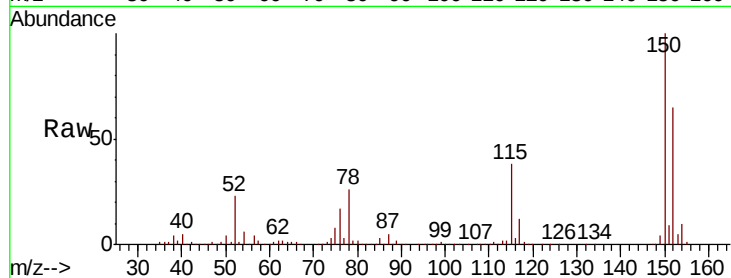
Tot Ion:152 Resp: 123956

Ion Ratio Lower Upper

152 100

115 58.9 43.5 130.5

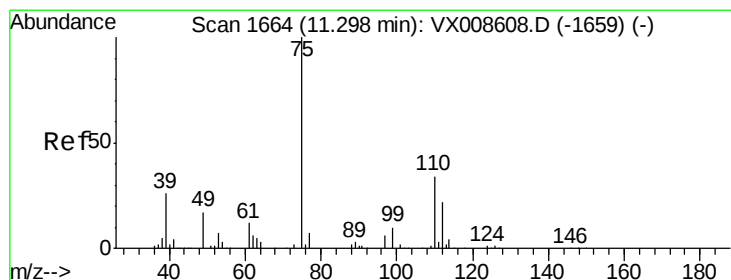
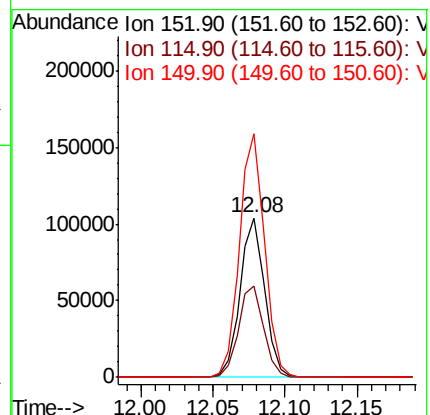
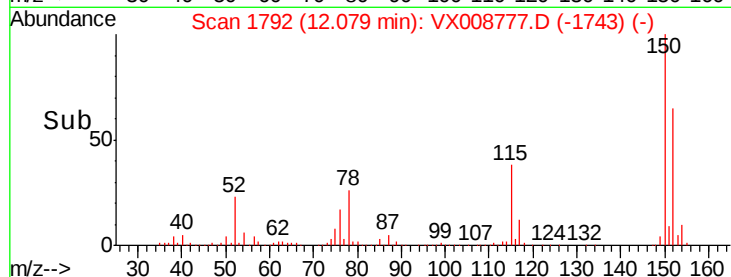
150 156.2 0.0 348.8



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: 21.060 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008777.D

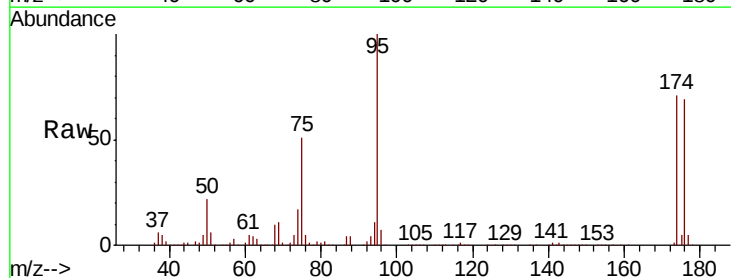
Acq: 09 Apr 2019 17:45

Tgt Ion: 75 Resp: 71712

Ion Ratio Lower Upper

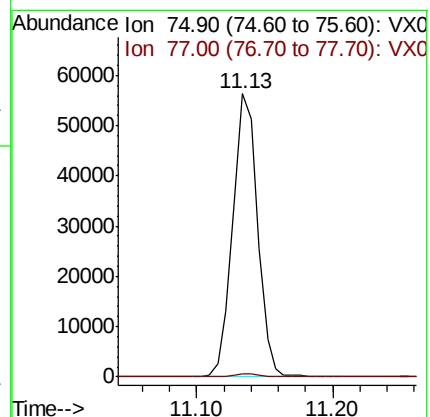
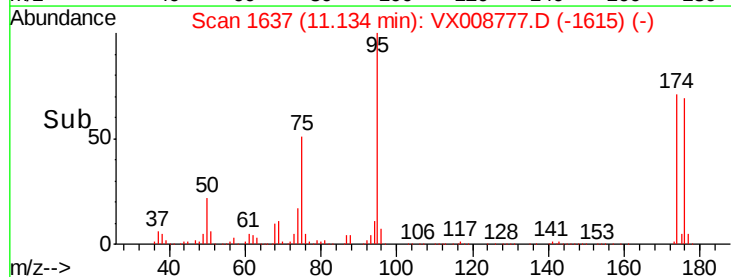
75 100

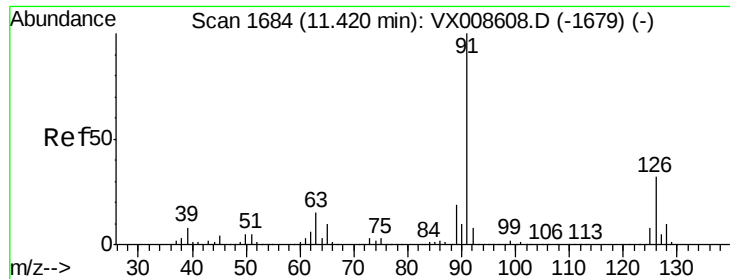
77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

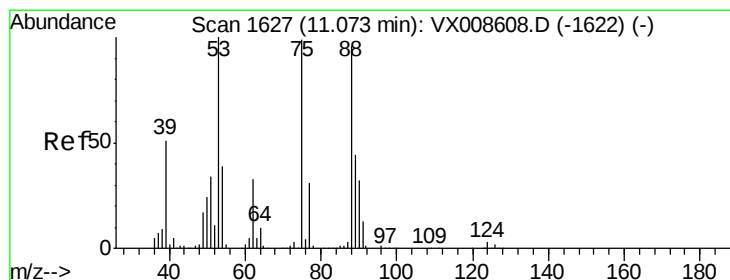
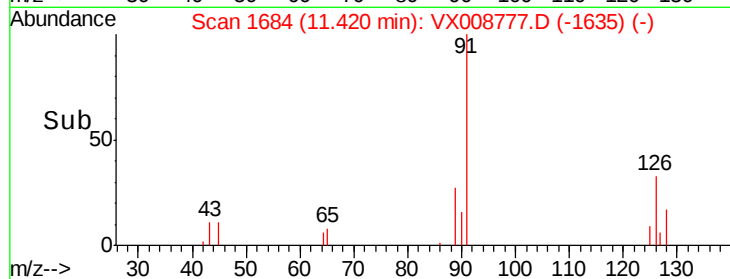
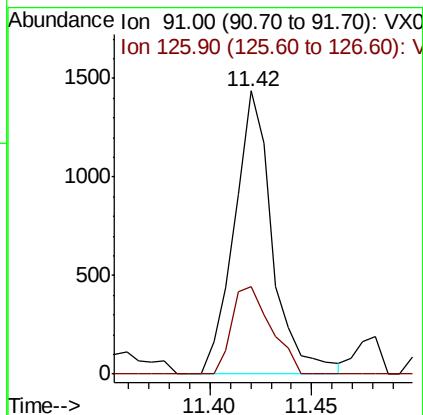
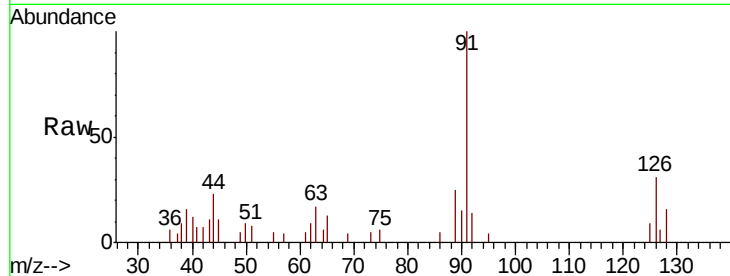




#79
 2-Chlorotoluene
 Concen: 0.257 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.00 min
 Lab File: VX008777.D
 Acq: 09 Apr 2019 17:45

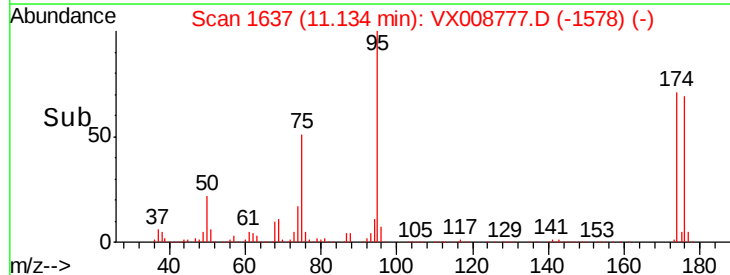
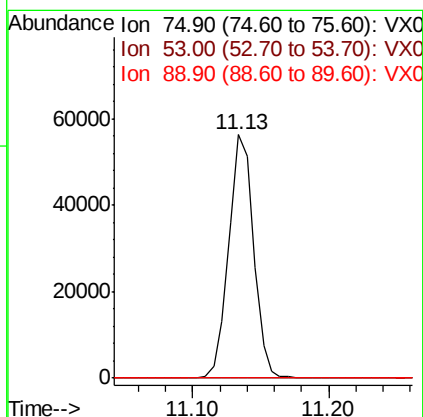
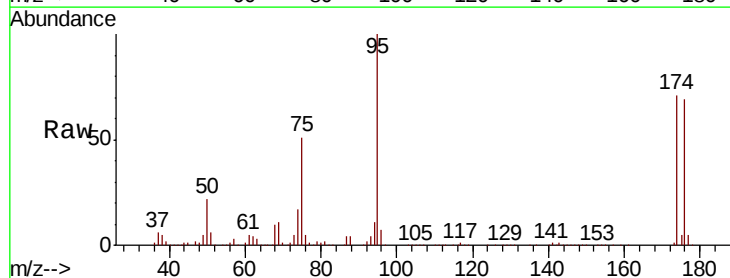
Instrument :
 MSVOA_X
 ClientSampleId :

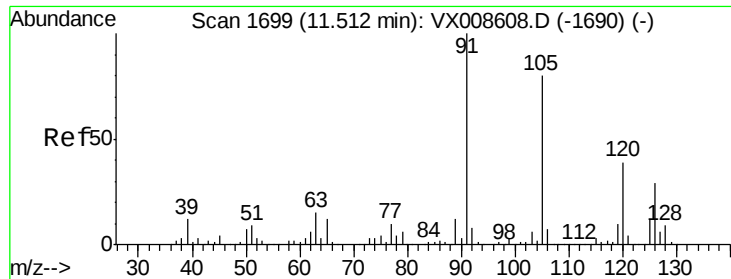
Tot Ion: 91 Resp: 1863
 Ion Ratio Lower Upper
 91 100
 126 31.5 16.1 48.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.052 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008777.D
 Acq: 09 Apr 2019 17:45

Tgt Ion: 75 Resp: 71712
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#





#82
 4-Chlorotoluene
 Concen: 0.222 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.09 min
 Lab File: VX008777.D
 Acq: 09 Apr 2019 17:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 91 Resp: 1863
 Ion Ratio Lower Upper
 91 100
 126 31.5 13.9 41.6

