

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009778.D
 Acq On : 22 May 2019 04:14
 Operator : JC/SP
 Sample : K2953-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14B_R2

Quant Time: May 22 07:13:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	171521	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273344	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104596	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	115355	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	5.50	113	84590	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	8.71	98	347267	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.13	95	117521	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	

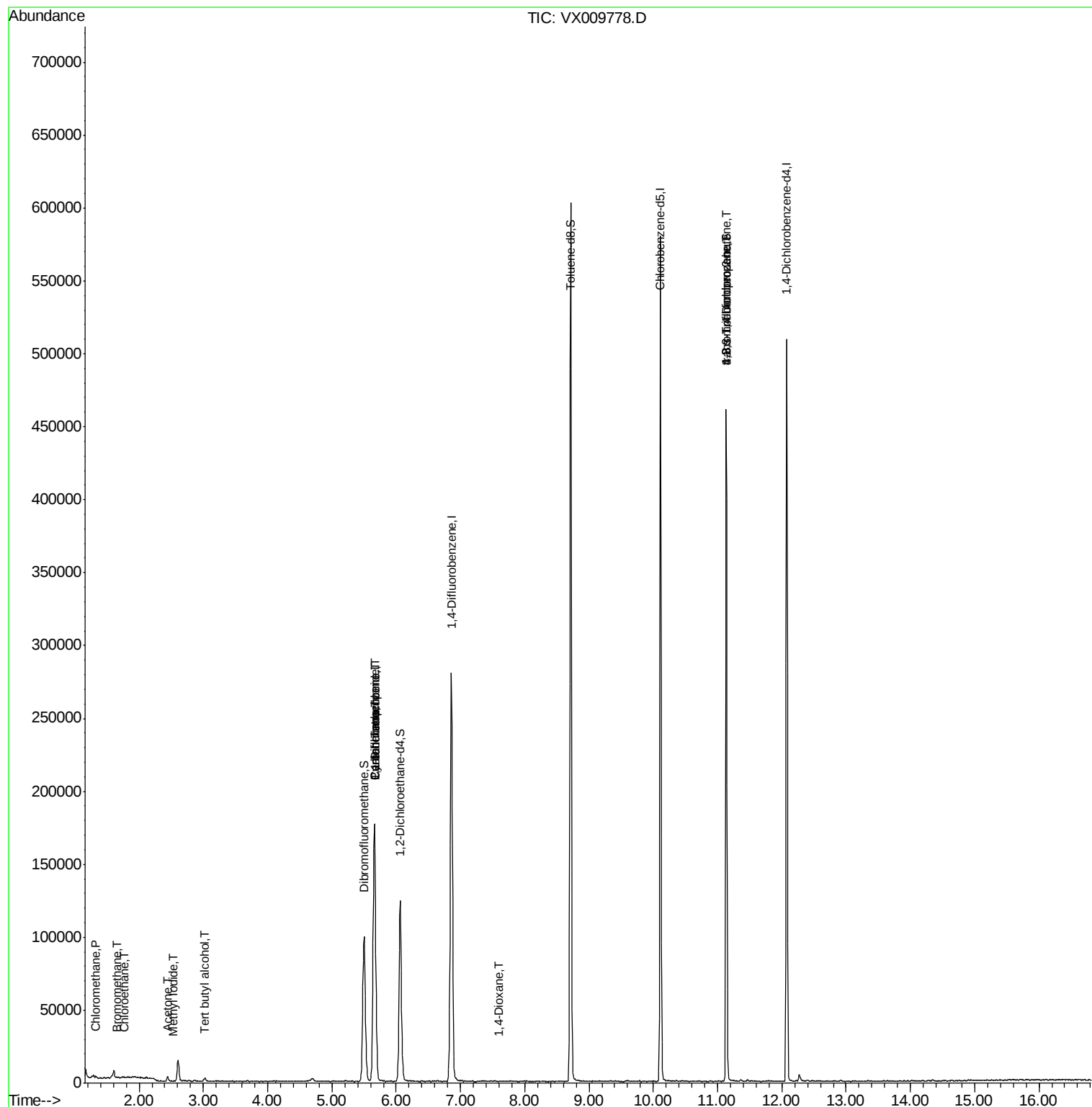
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	779	0.361	ug/l #	82
5) Bromomethane	1.65	94	408	0.323	ug/l #	37
6) Chloroethane	1.77	64	865	0.640	ug/l #	75
10) Methyl Iodide	2.53	142	215	4.698	ug/l #	55
11) Tert butyl alcohol	3.01	59	1484	2.738	ug/l #	93
16) Acetone	2.44	43	3747	2.980	ug/l	92
28) Bromochloromethane	5.03	49	48	Below Cal	#	20
31) Cyclohexane	5.66	56	3944	1.139	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14215	5.596	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16602	7.193	ug/l #	15
49) 1,4-Dioxane	7.59	88	19	0.334	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	59657	24.588	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59657	62.912	ug/l #	10

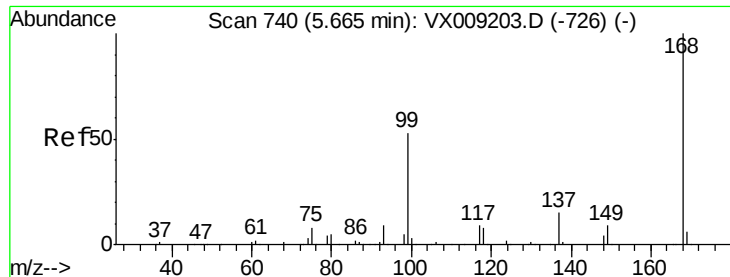
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

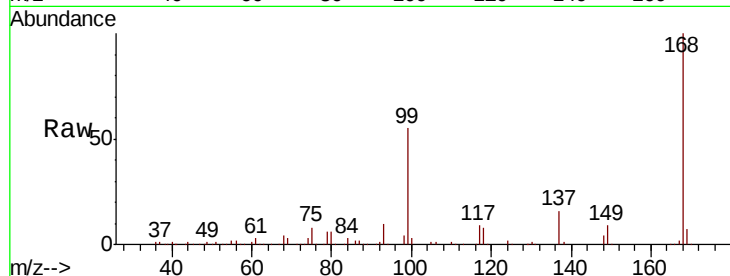
MW-14B_R2

Tot Ion:168 Resp: 171521

Ion Ratio Lower Upper

168 100

99 54.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

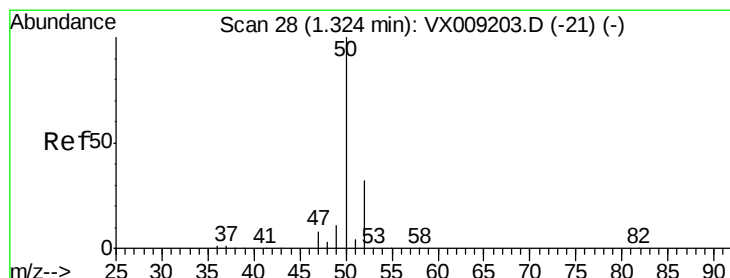
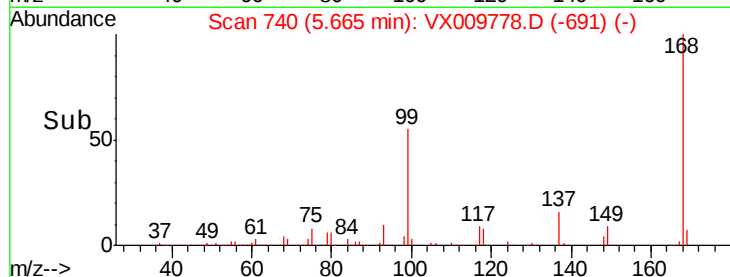
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.361 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009778.D

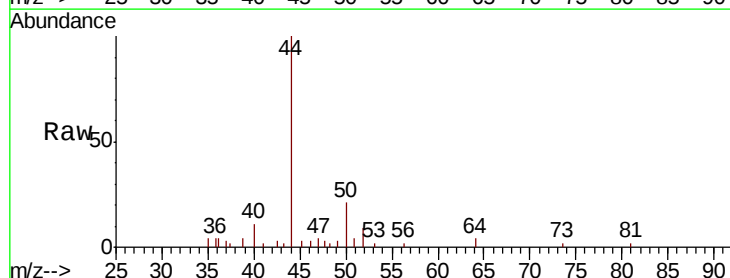
Acq: 22 May 2019 04:14

Tgt Ion: 50 Resp: 779

Ion Ratio Lower Upper

50 100

52 42.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

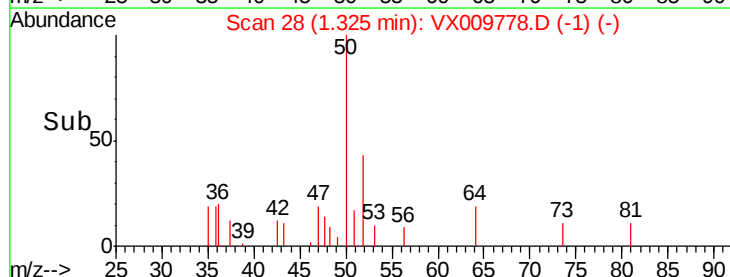
300

200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.323 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampled :

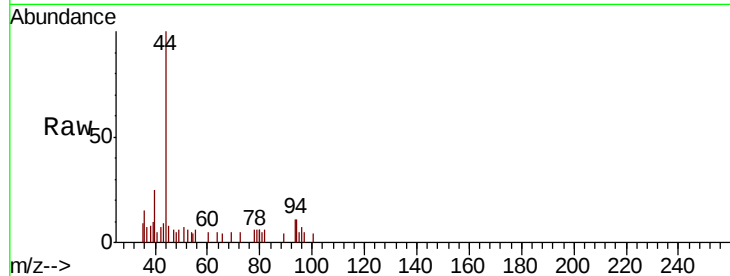
MW-14B_R2

Tot Ion: 94 Resp: 408

Ion Ratio Lower Upper

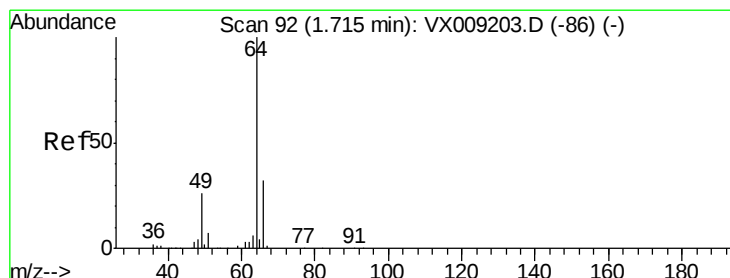
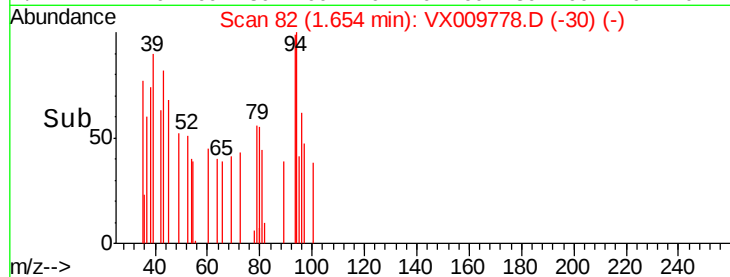
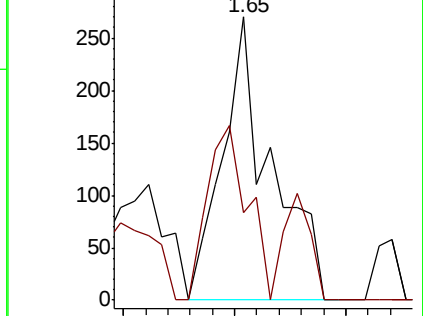
94 100

96 31.1 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.640 ug/l

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX009778.D

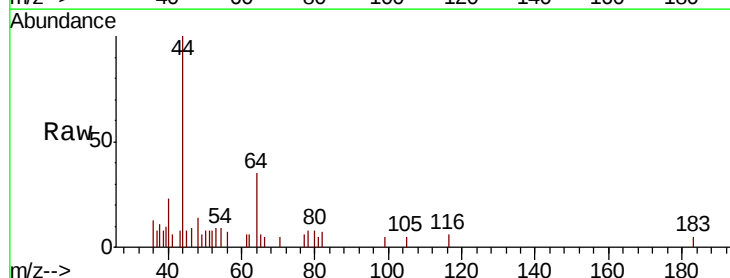
Acq: 22 May 2019 04:14

Tgt Ion: 64 Resp: 865

Ion Ratio Lower Upper

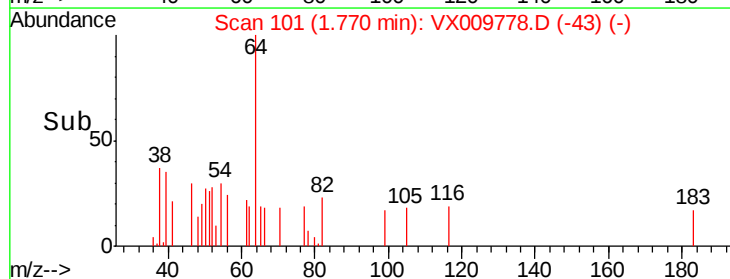
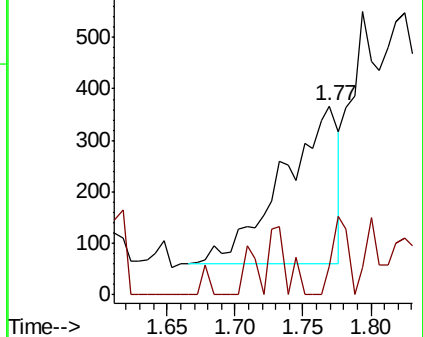
64 100

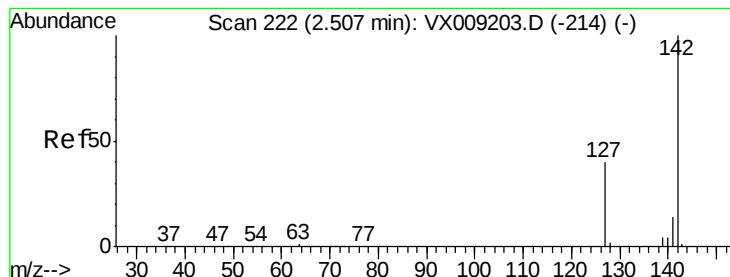
66 17.9 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.698 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

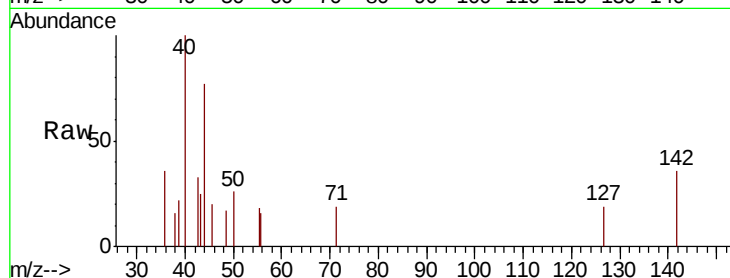
Tot Ion:142 Resp: 215

Ion Ratio Lower Upper

142 100

127 10.7 32.7 49.1#

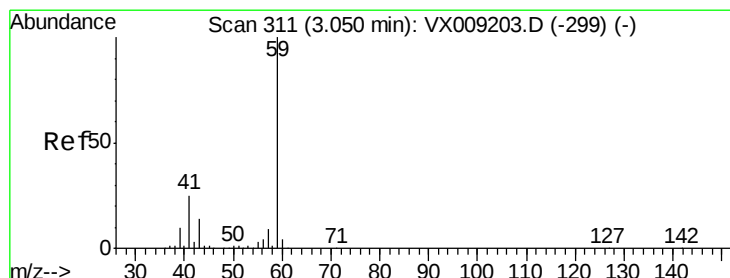
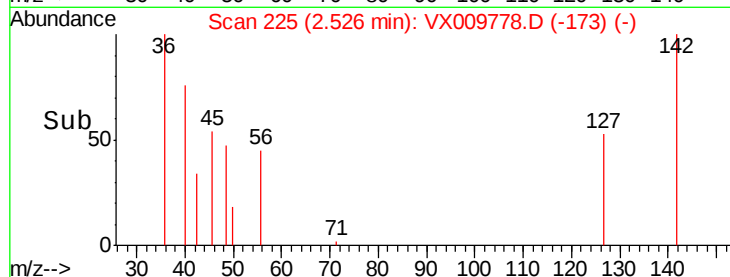
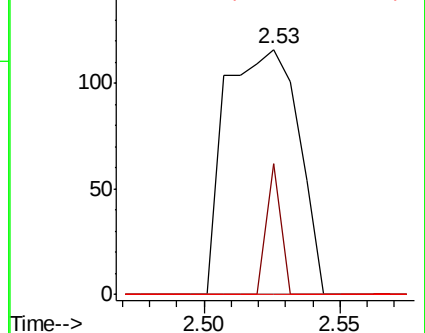
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.738 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX009778.D

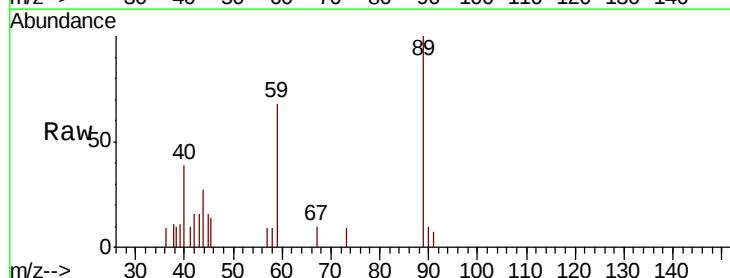
Acq: 22 May 2019 04:14

Tgt Ion: 59 Resp: 1484

Ion Ratio Lower Upper

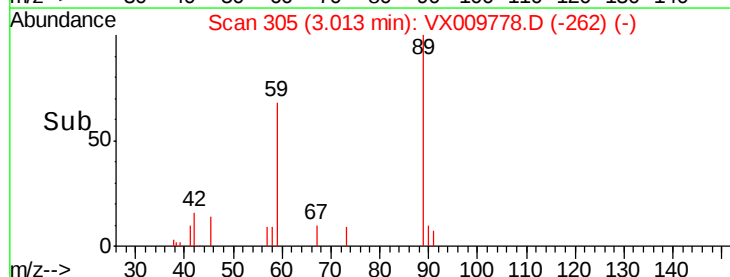
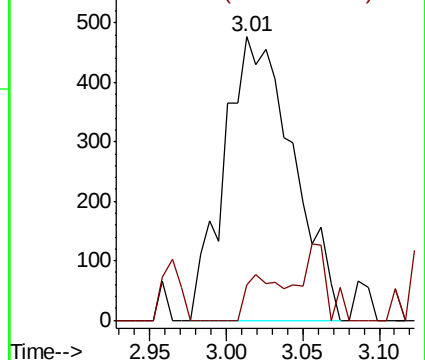
59 100

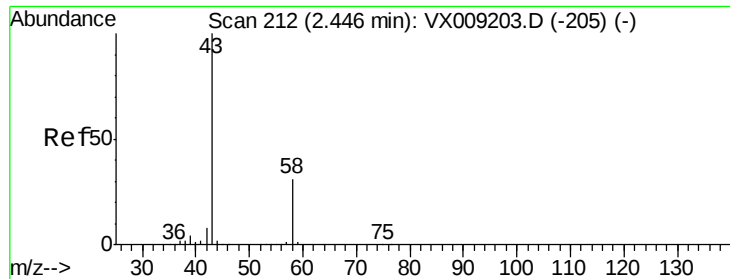
57 7.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

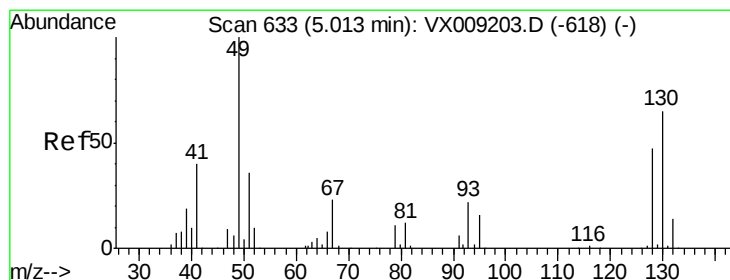
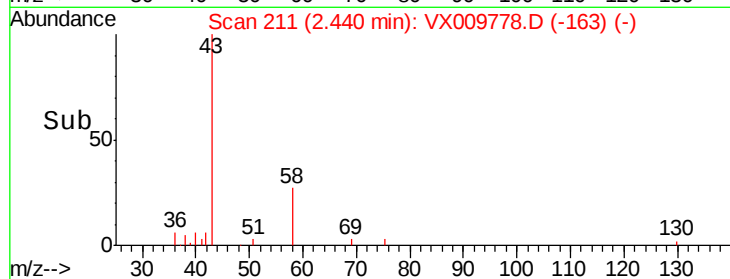
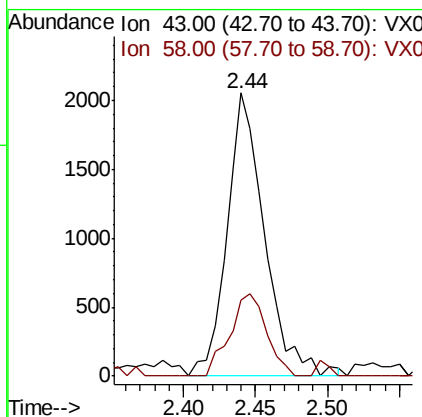
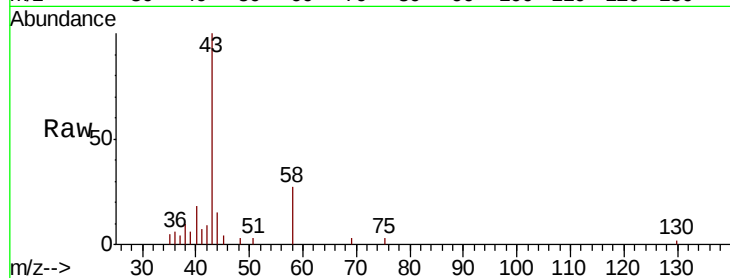




#16
Acetone
Concen: 2.980 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009778.D
Acq: 22 May 2019 04:14

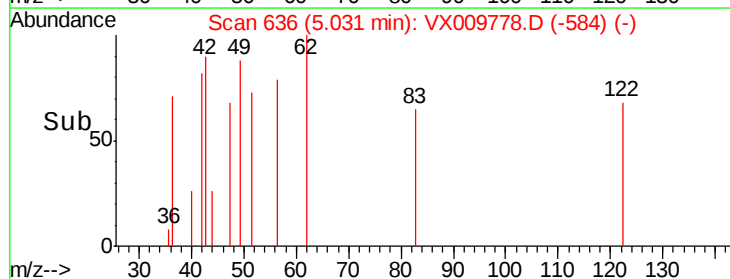
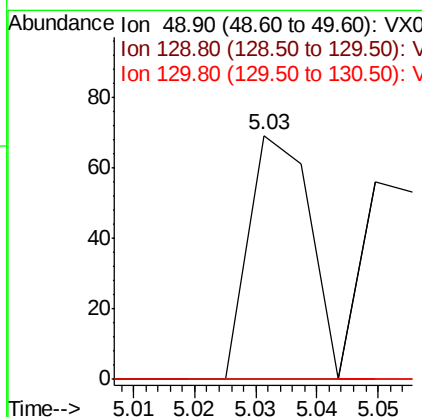
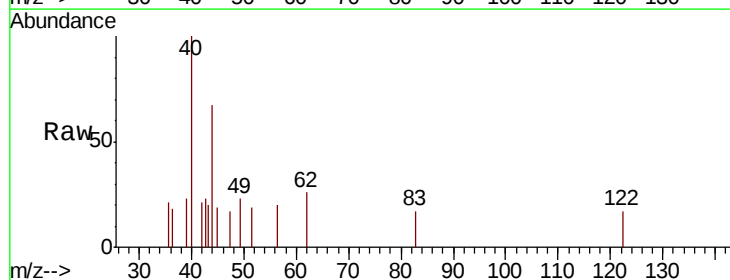
Instrument :
MSVOA_X
ClientSampleId :
MW-14B_R2

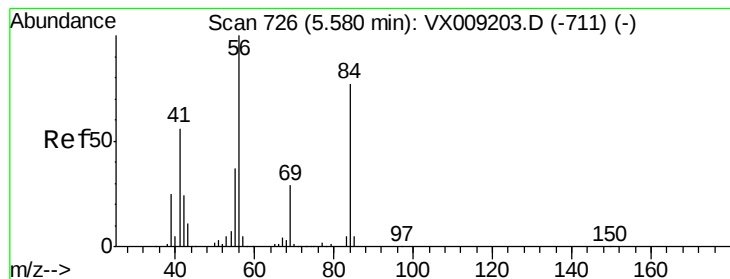
Tot Ion: 43 Resp: 3747
Ion Ratio Lower Upper
43 100
58 26.9 24.9 37.3



#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 636
Delta R.T. 0.02 min
Lab File: VX009778.D
Acq: 22 May 2019 04:14

Tgt Ion: 49 Resp: 48
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#





#31

Cyclohexane

Concen: 1.139 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

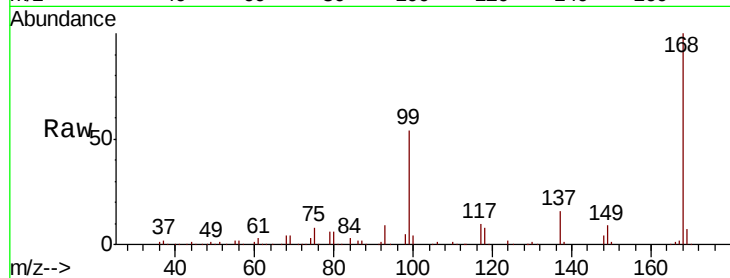
Tot Ion: 56 Resp: 3944

Ion Ratio Lower Upper

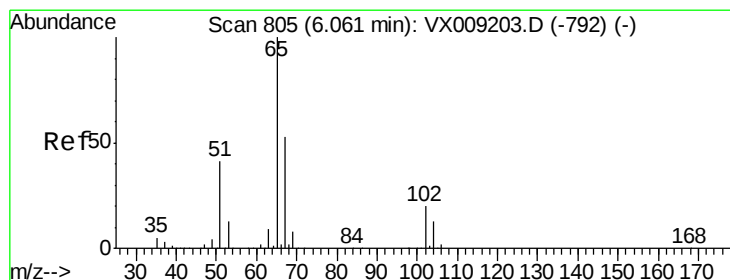
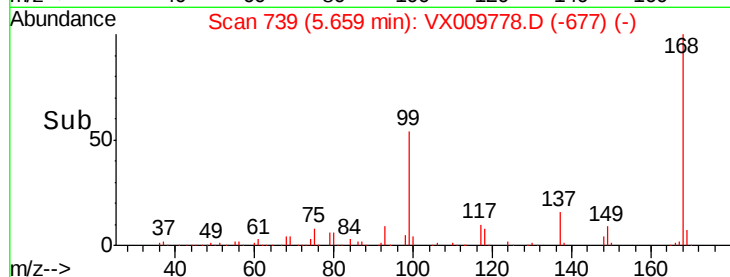
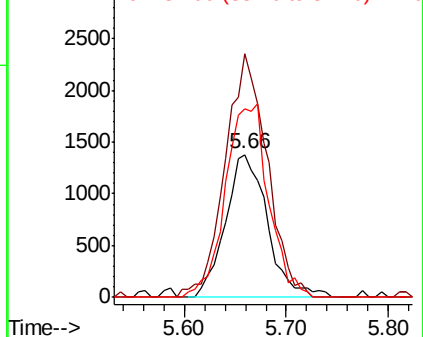
56 100

69 170.9 23.4 35.0#

84 132.0 61.9 92.9#



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



#33

1,2-Dichloroethane-d4

Concen: 49.266 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009778.D

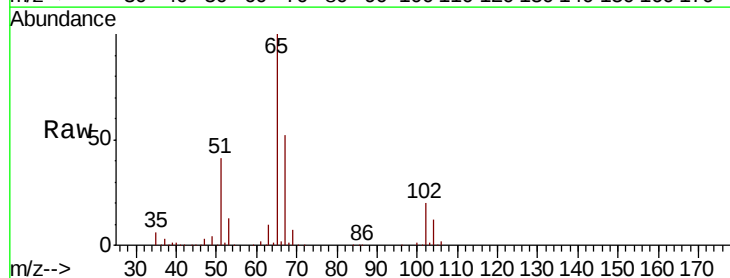
Acq: 22 May 2019 04:14

Tgt Ion: 65 Resp: 115355

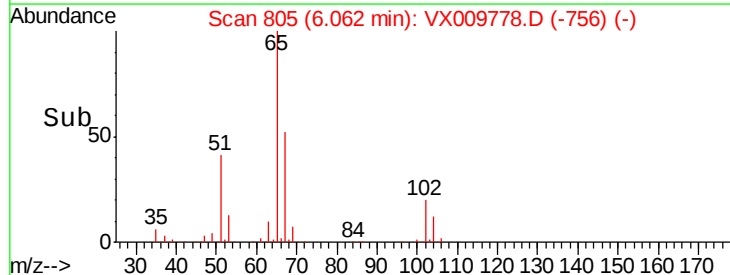
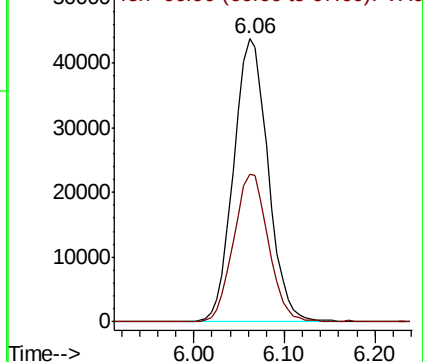
Ion Ratio Lower Upper

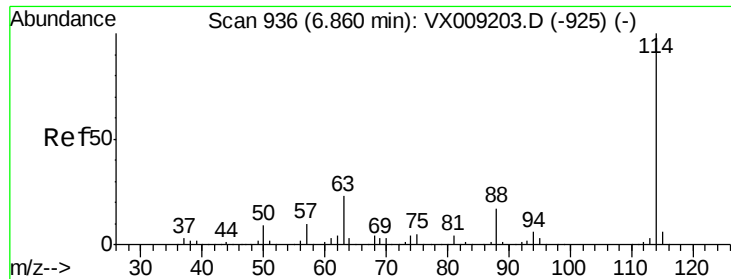
65 100

67 52.9 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

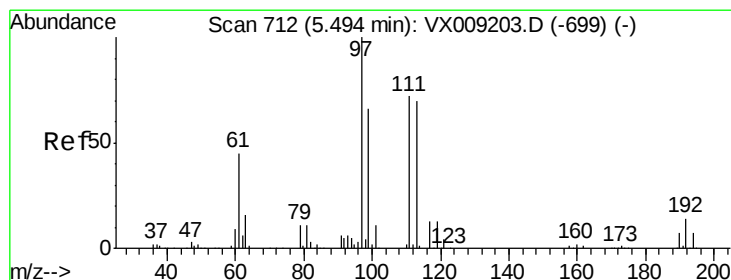
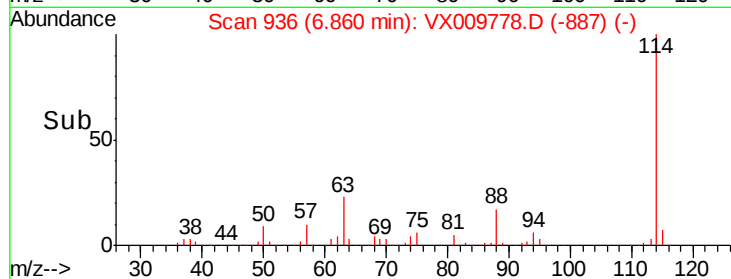
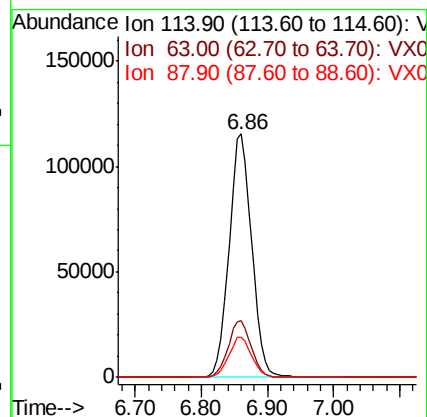
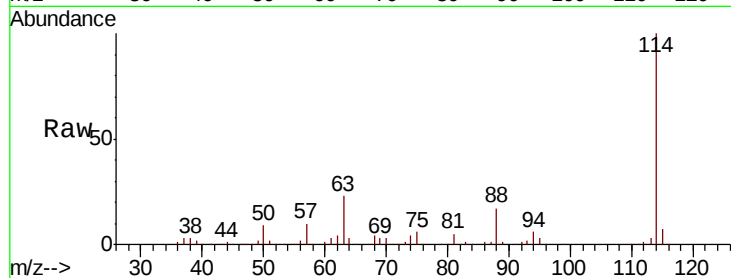




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009778.D
 Acq: 22 May 2019 04:14

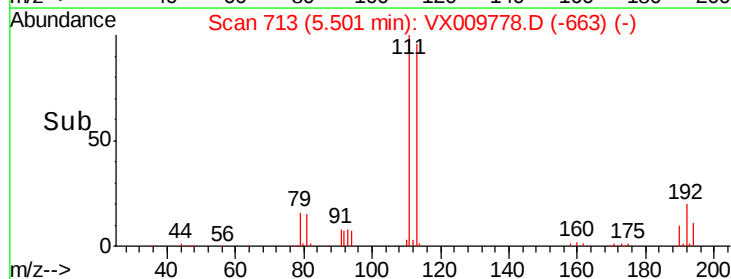
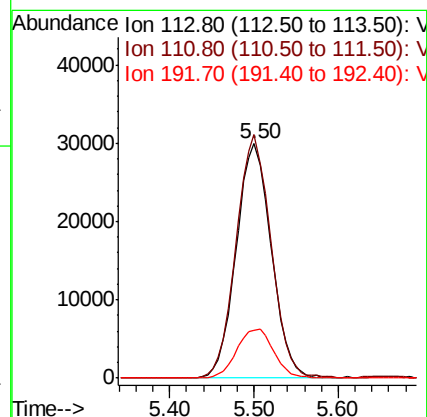
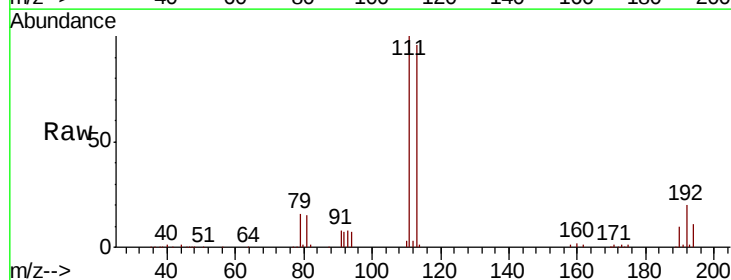
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14B_R2

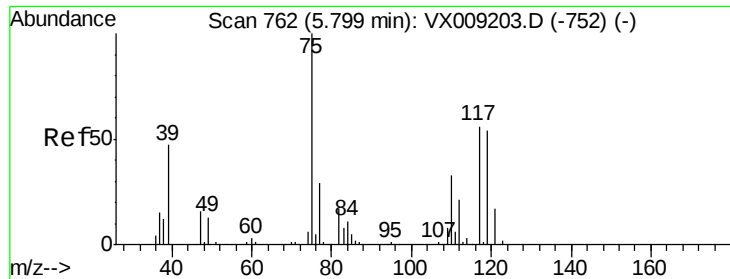
Tot Ion:114 Resp: 273344
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 16.6 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 49.227 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009778.D
 Acq: 22 May 2019 04:14

Tgt Ion:113 Resp: 84590
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.8 124.2
 192 21.9 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.596 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

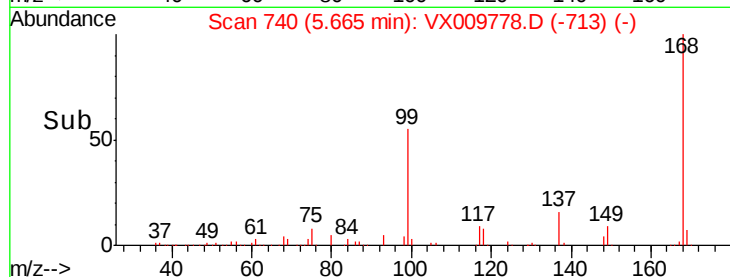
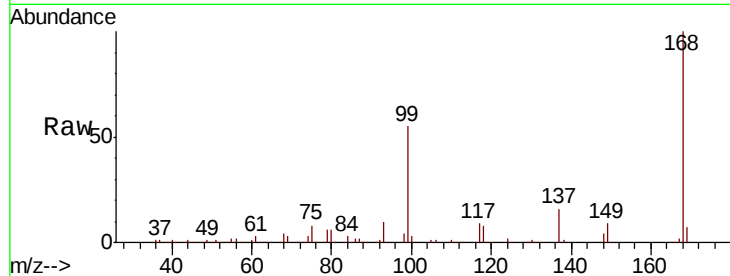
Tot Ion: 75 Resp: 14215

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

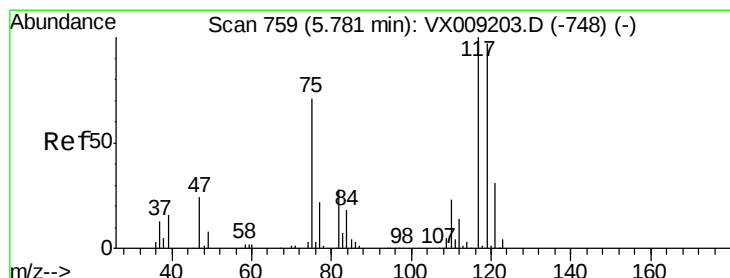
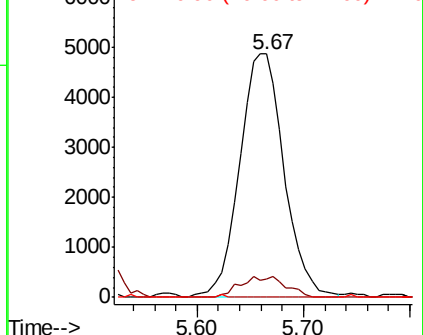
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.193 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

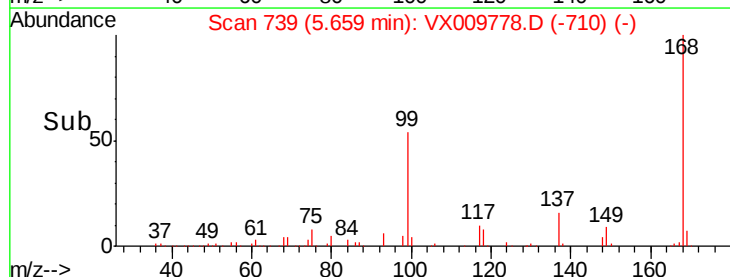
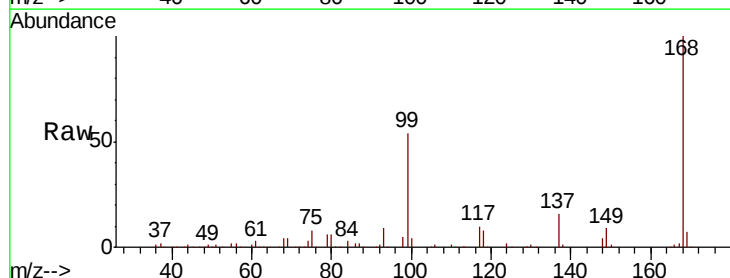
Tgt Ion: 117 Resp: 16602

Ion Ratio Lower Upper

117 100

119 3.9 77.5 116.3#

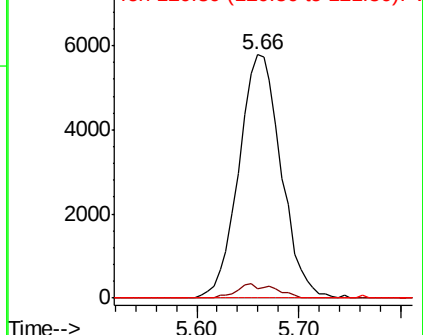
121 0.0 24.7 37.1#

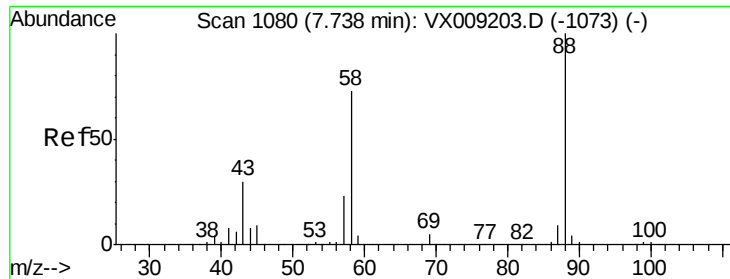


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.334 ug/l

RT: 7.59 min Scan# 1056

Delta R.T. -0.15 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

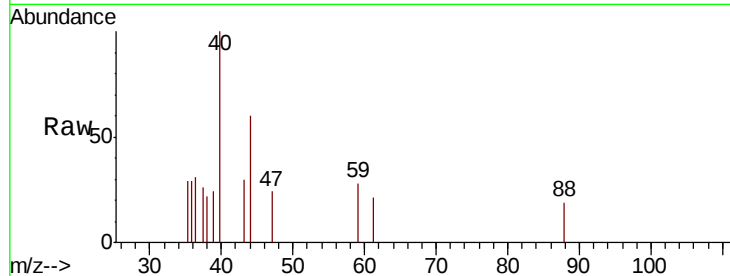
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 710.5 28.6 42.8#

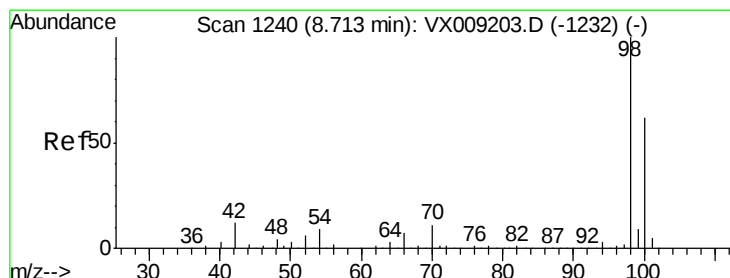
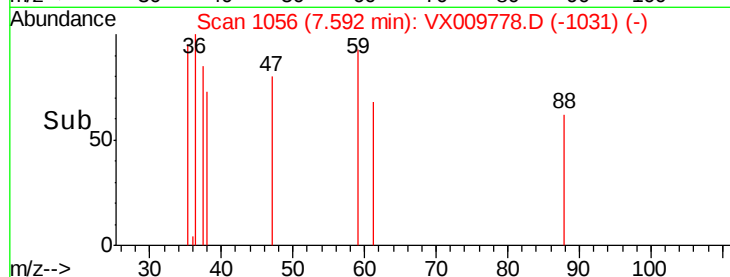
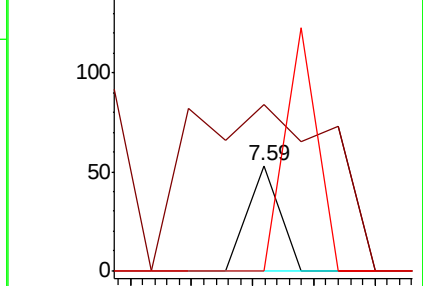
58 236.8 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.057 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009778.D

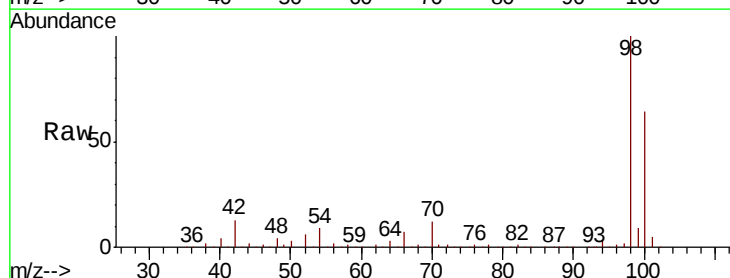
Acq: 22 May 2019 04:14

Tgt Ion: 98 Resp: 347267

Ion Ratio Lower Upper

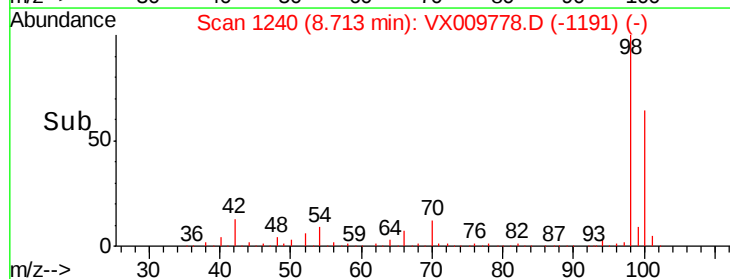
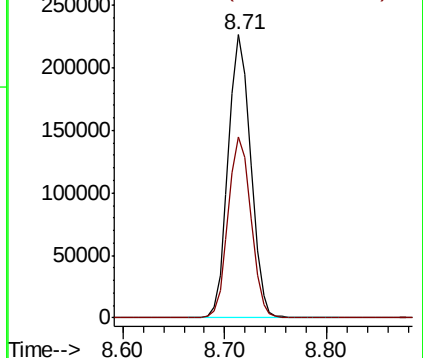
98 100

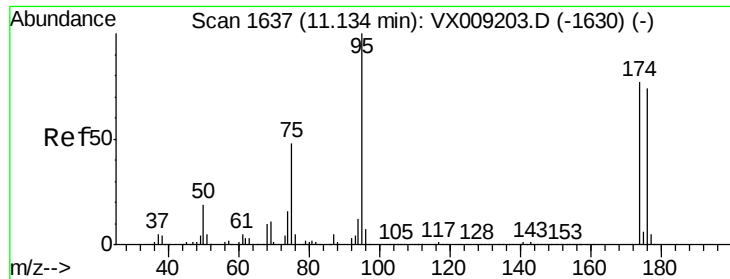
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

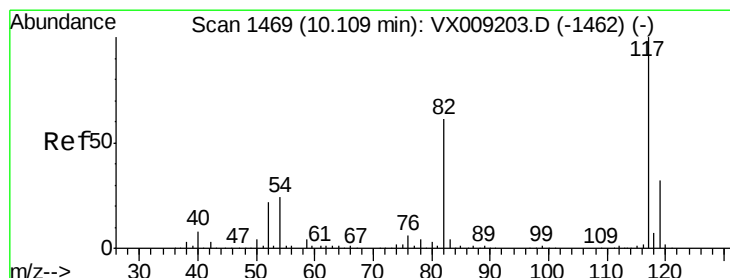
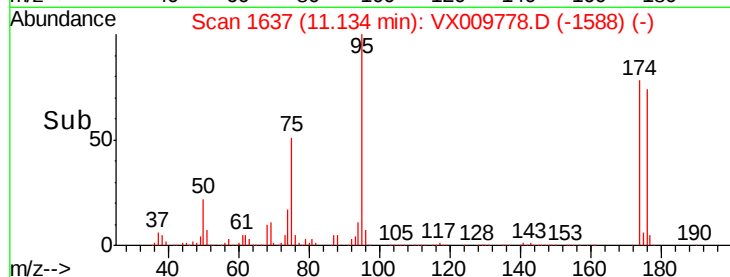
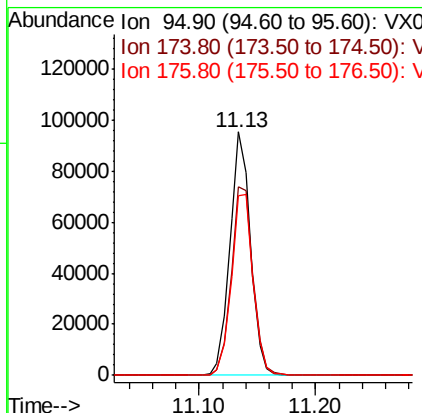
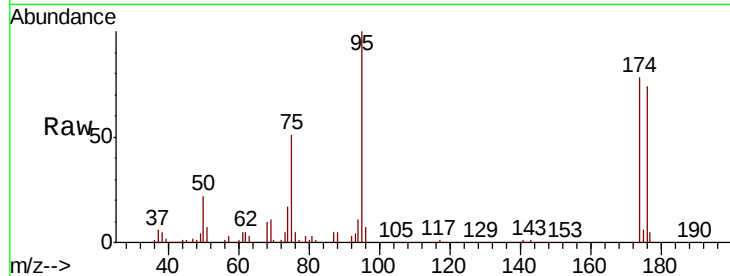




#62
4-Bromofluorobenzene
Concen: 46.621 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009778.D
Acq: 22 May 2019 04:14

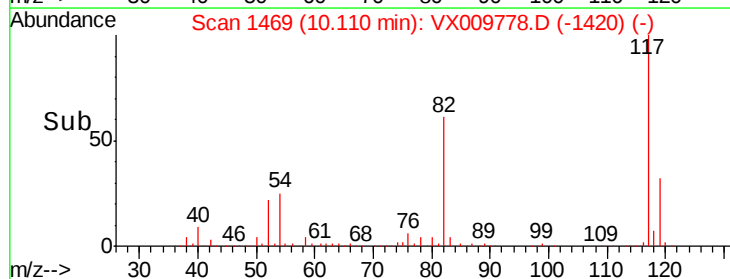
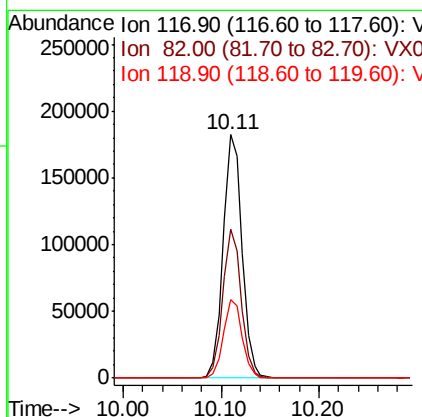
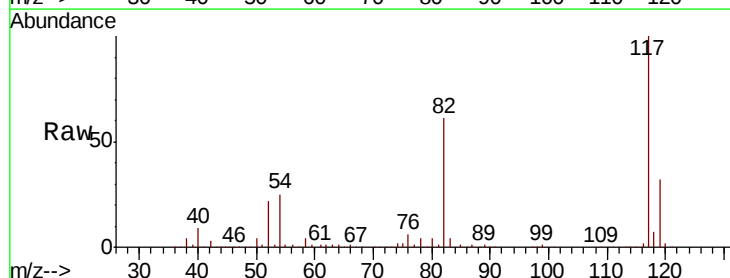
Instrument :
MSVOA_X
ClientSampleId :
MW-14B_R2

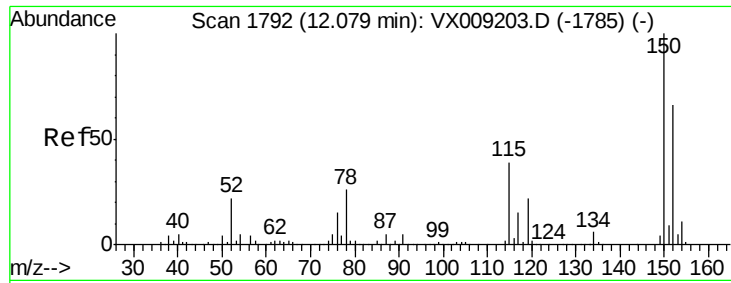
Tot Ion: 95 Resp: 117521
Ion Ratio Lower Upper
95 100
174 81.9 0.0 161.6
176 78.5 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009778.D
Acq: 22 May 2019 04:14

Tgt Ion: 117 Resp: 244693
Ion Ratio Lower Upper
117 100
82 60.9 48.8 73.2
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

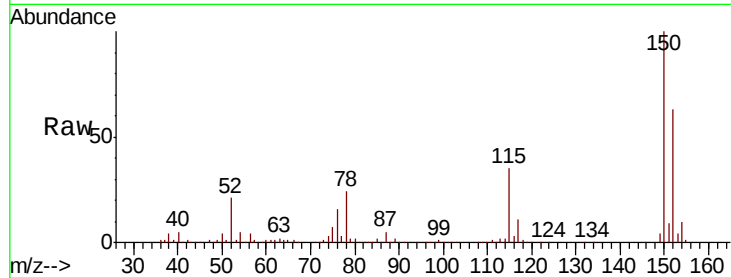
Tot Ion:152 Resp: 104596

Ion Ratio Lower Upper

152 100

115 58.8 41.2 123.6

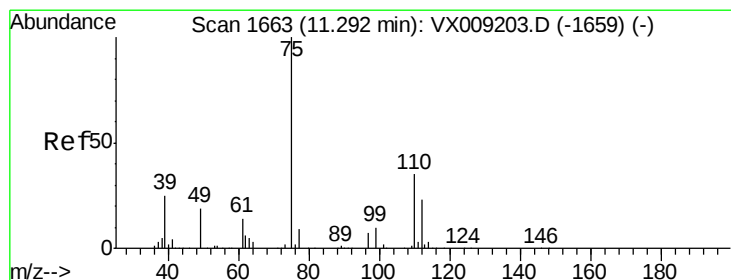
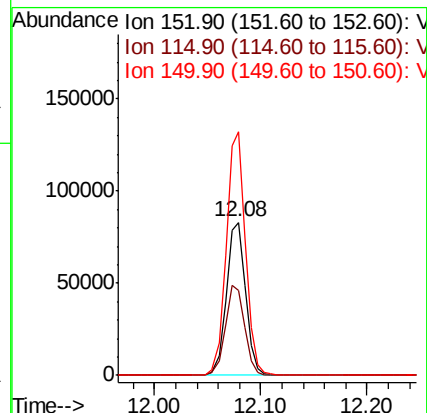
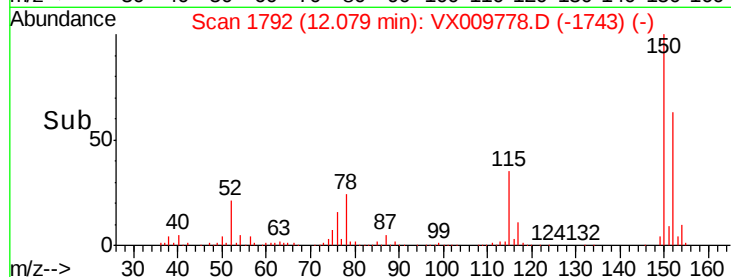
150 158.0 0.0 346.4



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: 24.588 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009778.D

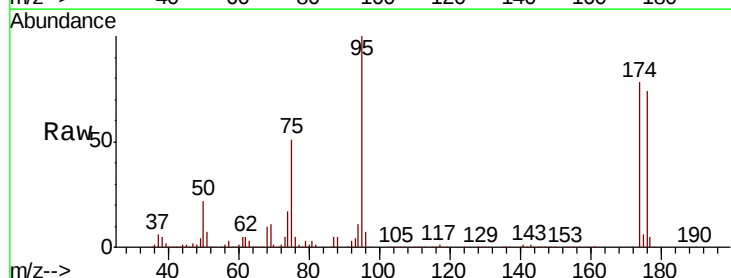
Acq: 22 May 2019 04:14

Tgt Ion: 75 Resp: 59657

Ion Ratio Lower Upper

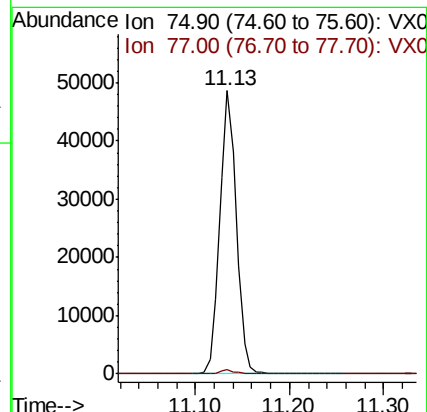
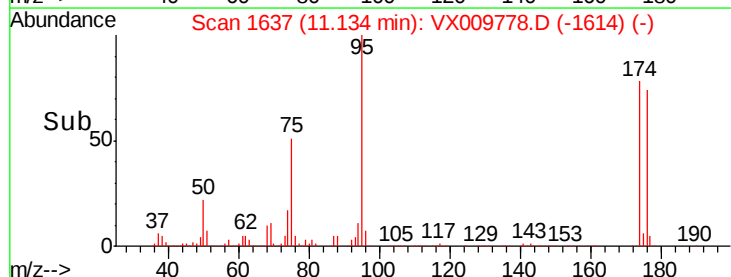
75 100

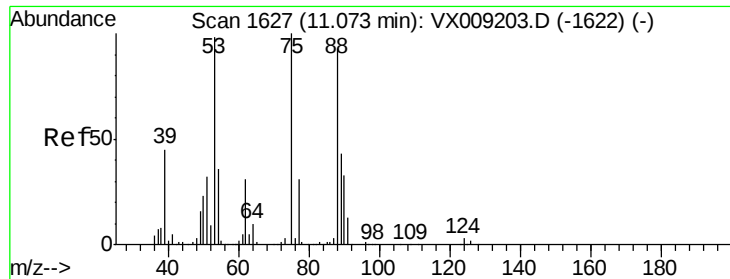
77 1.3 22.1 66.1#



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: 62.912 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009778.D

Acq: 22 May 2019 04:14

Instrument :

MSVOA_X

ClientSampleId :

MW-14B_R2

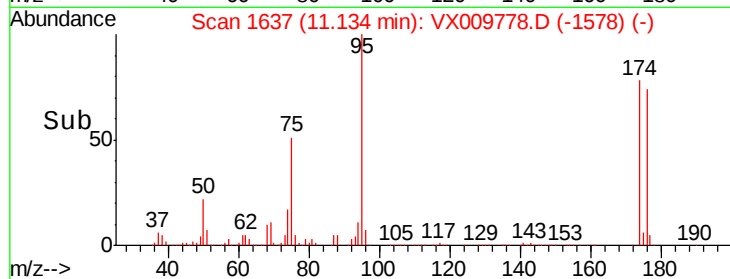
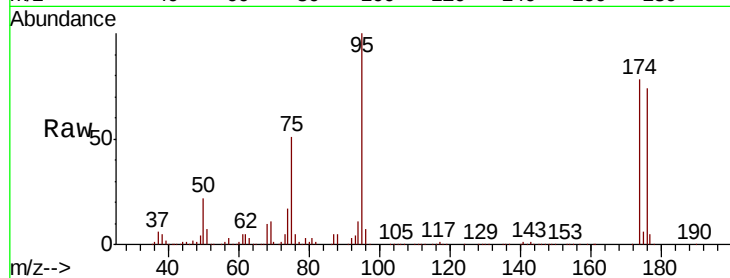
Tot Ion: 75 Resp: 59657

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



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

