

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041819\
 Data File : VX009046.D
 Acq On : 18 Apr 2019 16:08
 Operator : JC/SP
 Sample : K2449-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-190416

Quant Time: Apr 19 01:38:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399455	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143835	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	166243	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	5.50	113	121566	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	8.71	98	489703	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.14	95	162297	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	

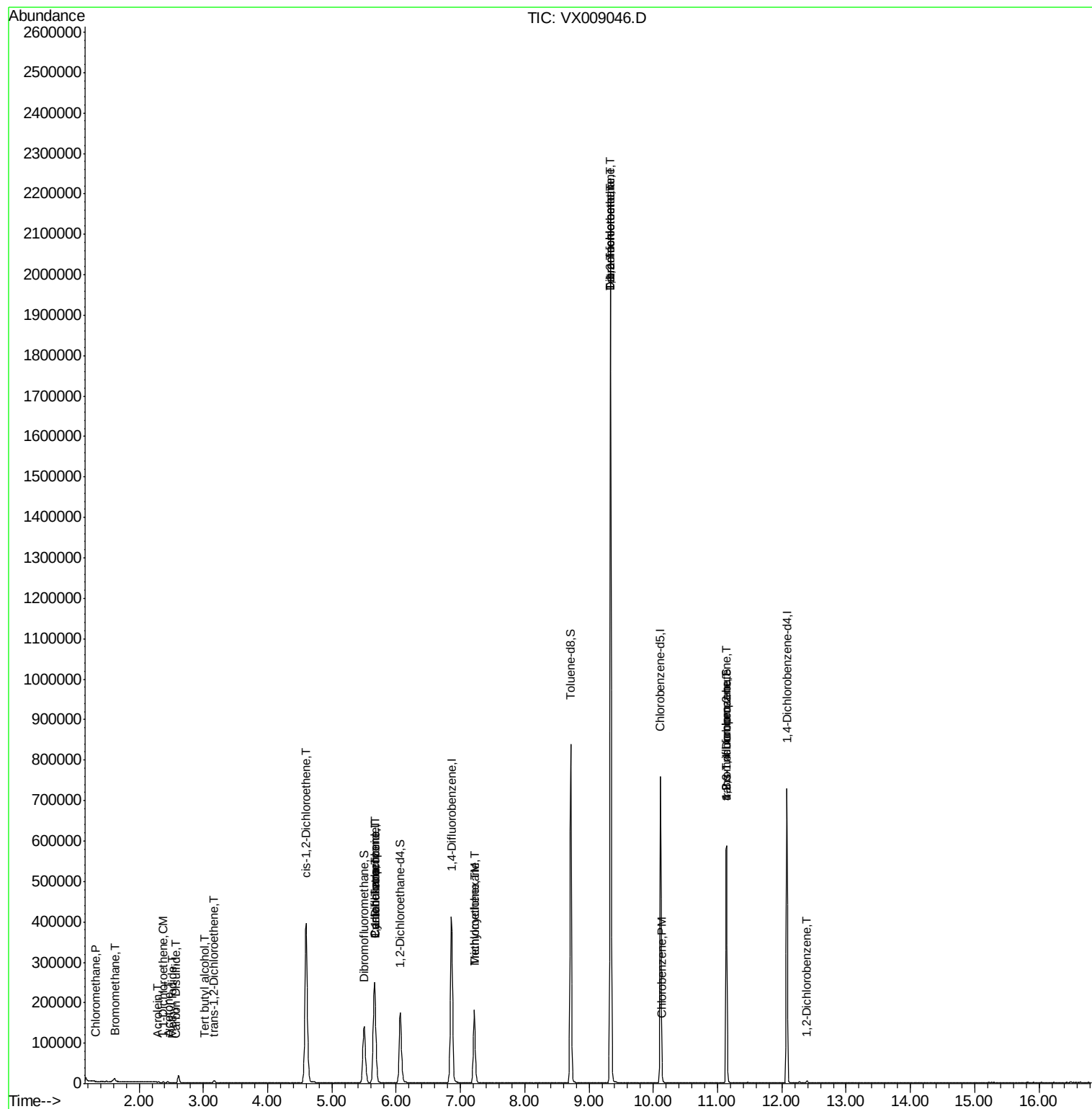
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	773	0.224	ug/l #	73
5) Bromomethane	1.64	94	321	3.989	ug/l #	17
10) Methyl Iodide	2.52	142	75	4.439	ug/l #	42
11) Tert butyl alcohol	3.02	59	1115	1.459	ug/l #	83
12) 1,1-Dichloroethene	2.37	96	532	0.203	ug/l #	70
13) Acrolein	2.29	56	162	0.245	ug/l #	70
16) Acetone	2.45	43	3678	2.061	ug/l #	88
17) Carbon Disulfide	2.57	76	594	1.328	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	2161	0.774	ug/l	87
27) cis-1,2-Dichloroethene	4.60	96	243306	76.709	ug/l	90
28) Bromochloromethane	5.03	49	49	Below Cal	#	21
31) Cyclohexane	5.66	56	5600	1.021	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19074	4.617	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23421	6.687	ug/l #	17
39) Methylcyclohexane	7.21	83	1064	0.212	ug/l #	1
44) Trichloroethene	7.21	130	67777	22.697	ug/l	100
55) 1,1,2-Trichloroethane	9.34	97	3350	1.157	ug/l #	1
60) Dibromochloromethane	9.34	129	384941	138.745	ug/l #	10
64) Tetrachloroethene	9.34	164	408719	159.256	ug/l	98
65) Chlorobenzene	10.14	112	1574	0.221	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	82093	23.374	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	82093	60.007	ug/l #	11
91) 1,2-Dichlorobenzene	12.40	146	1416	0.298	ug/l	94

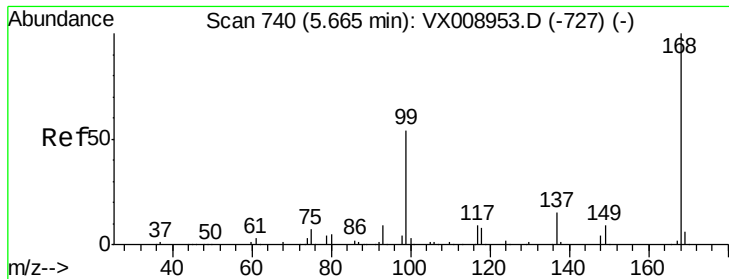
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

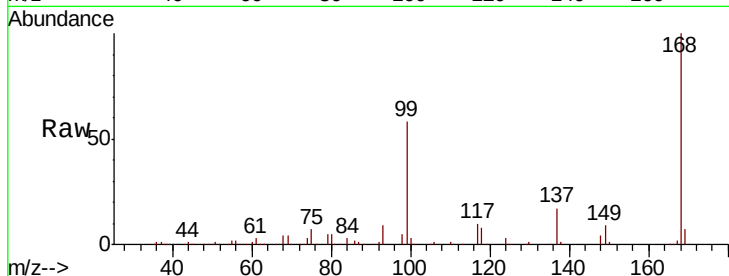
SS037MW309-190416

Tot Ion:168 Resp: 244235

Ion Ratio Lower Upper

168 100

99 57.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

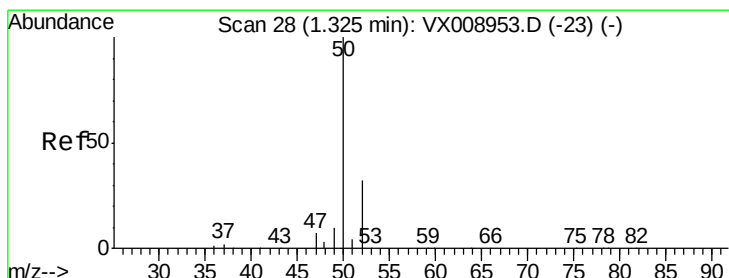
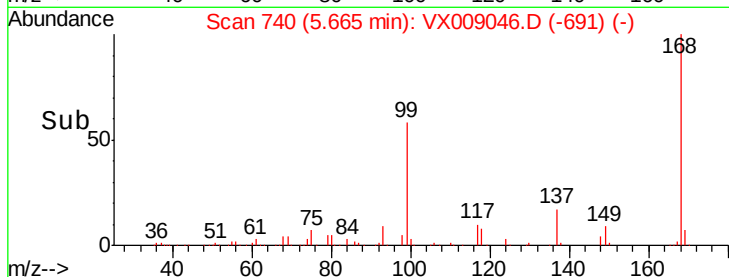
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.224 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009046.D

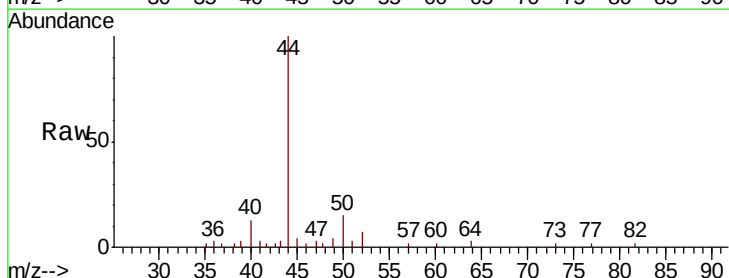
Acq: 18 Apr 2019 16:08

Tgt Ion: 50 Resp: 773

Ion Ratio Lower Upper

50 100

52 47.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

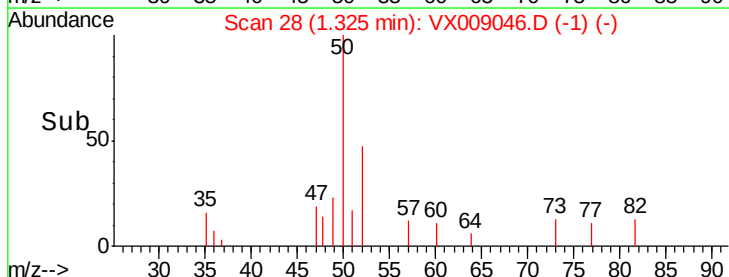
300

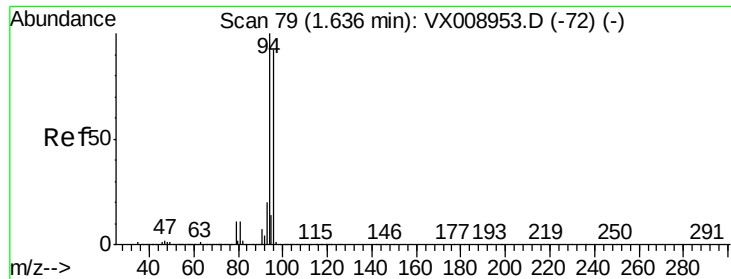
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 3.989 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

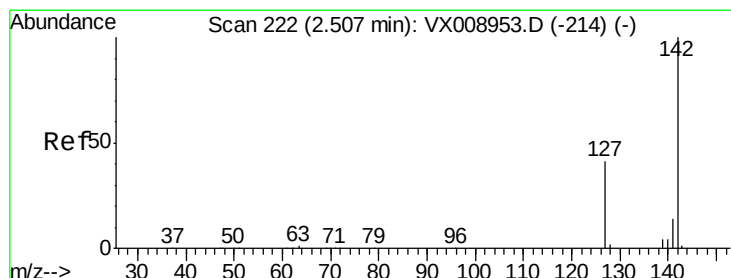
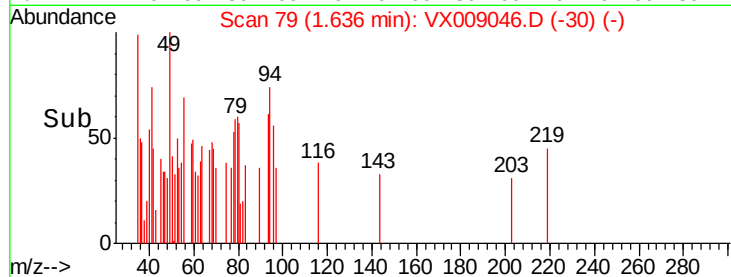
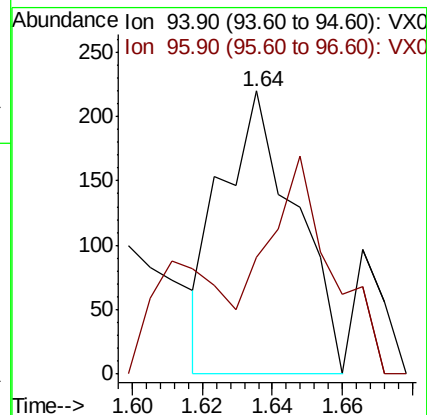
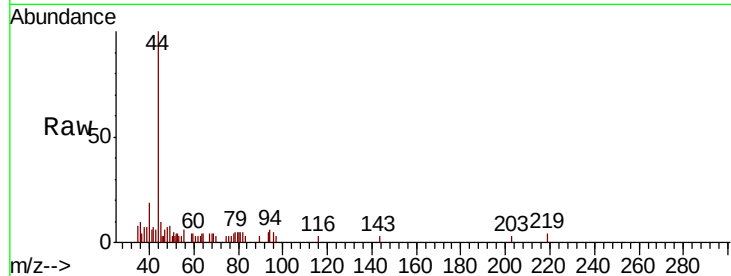
SS037MW309-190416

Tot Ion: 94 Resp: 321

Ion Ratio Lower Upper

94 100

96 13.2 73.9 110.9#



#10

Methyl Iodide

Concen: 4.439 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

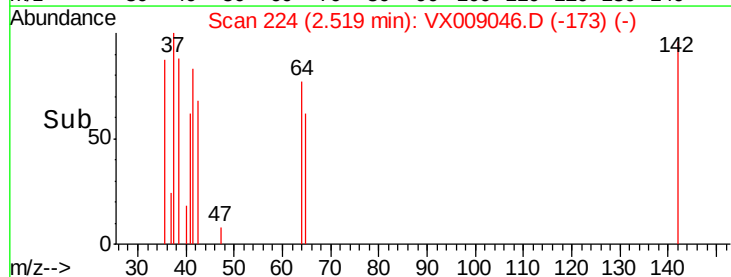
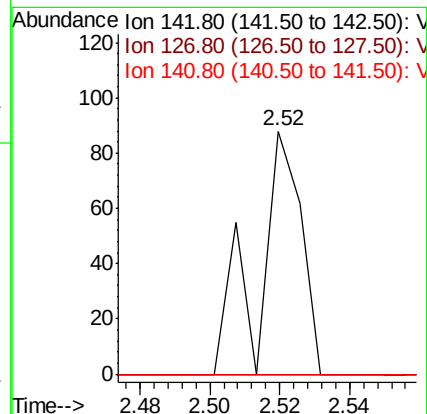
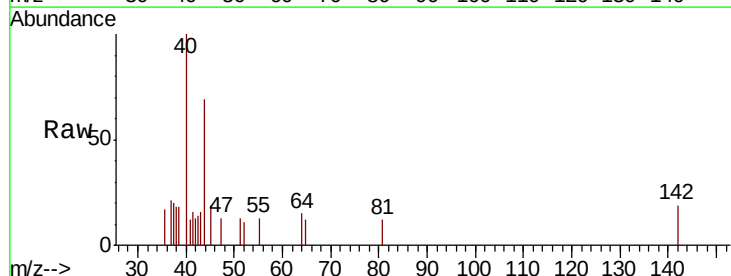
Tgt Ion: 142 Resp: 75

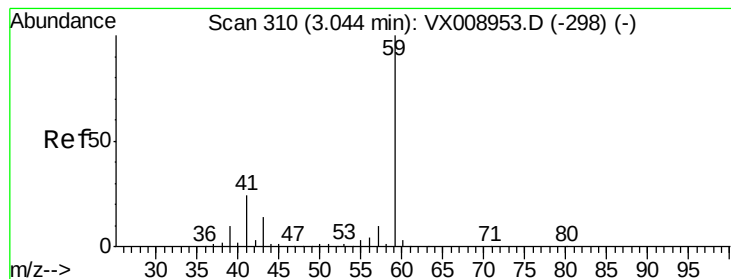
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



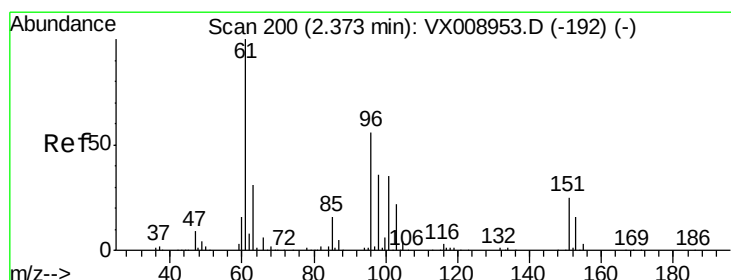
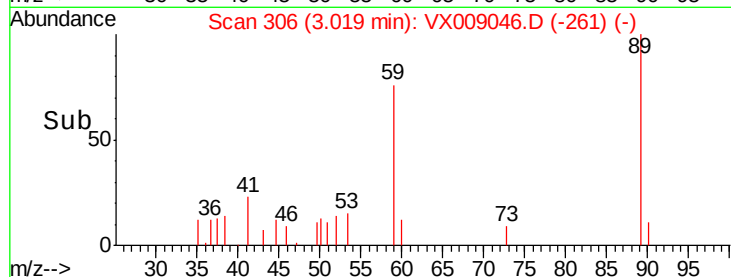
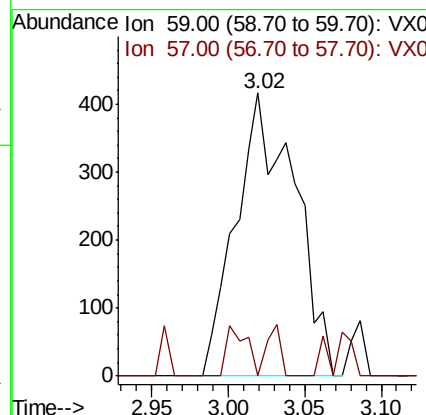
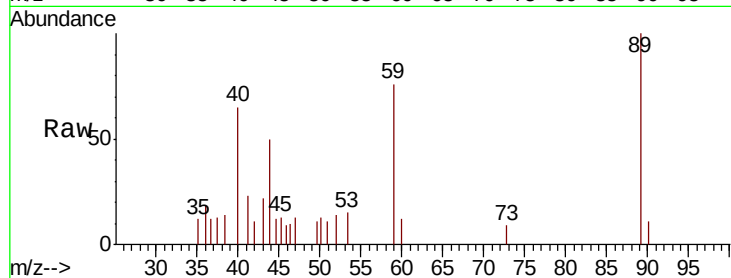


#11

Tert butyl alcohol
 Concen: 1.459 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-190416

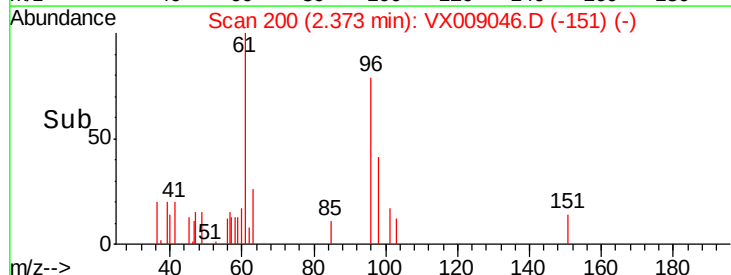
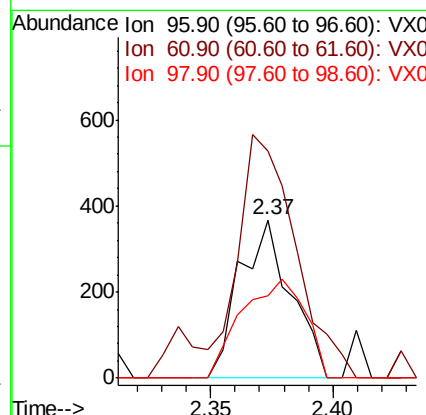
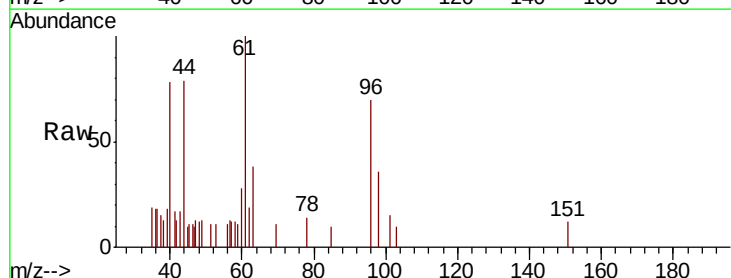
Tot Ion: 59 Resp: 1115
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.4 12.6#

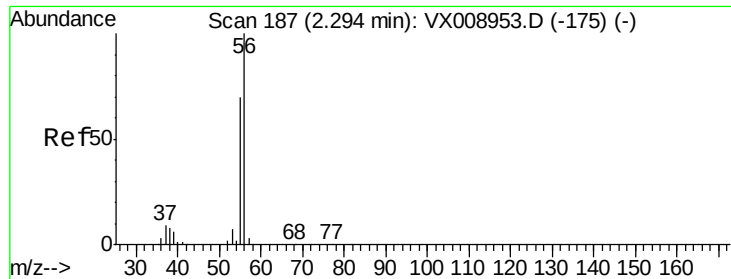


#12

1,1-Dichloroethene
 Concen: 0.203 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Tgt Ion: 96 Resp: 532
 Ion Ratio Lower Upper
 96 100
 61 128.5 142.2 213.2#
 98 51.6 50.9 76.3

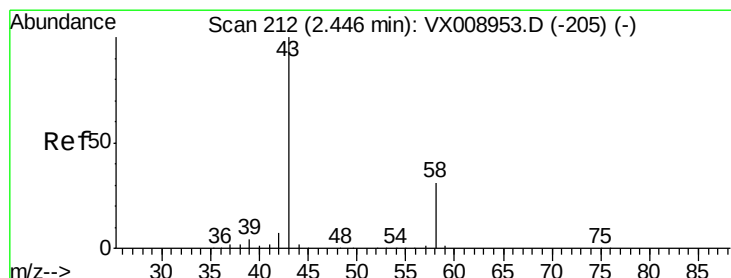
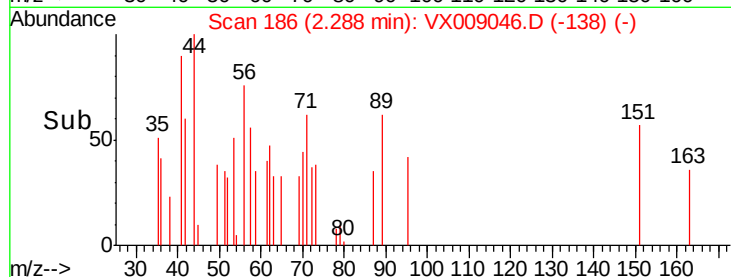
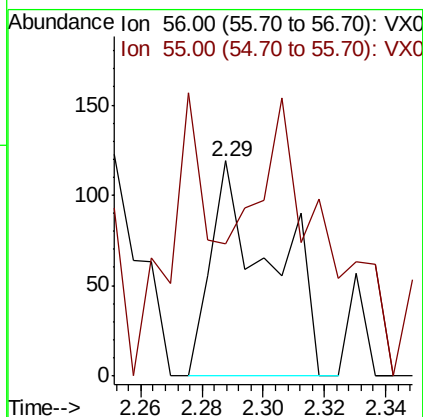
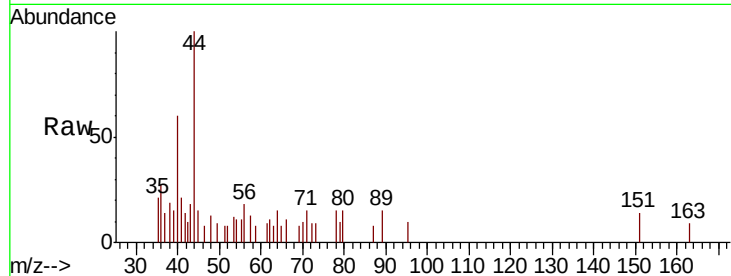




#13
Acrolein
Concen: 0.245 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

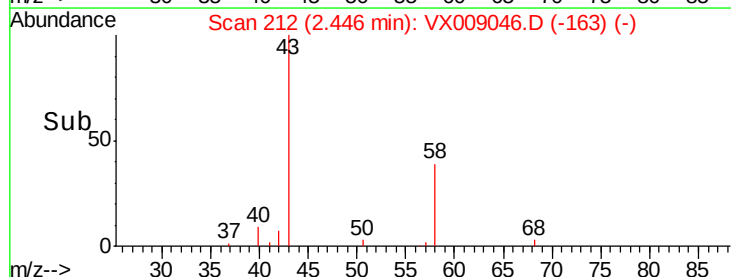
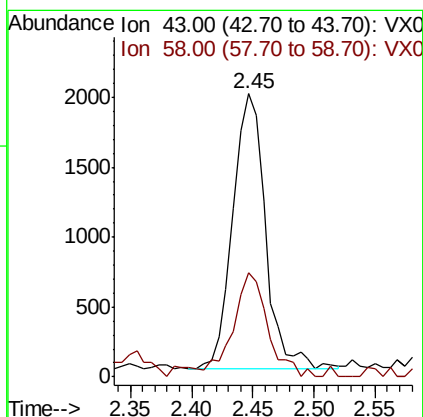
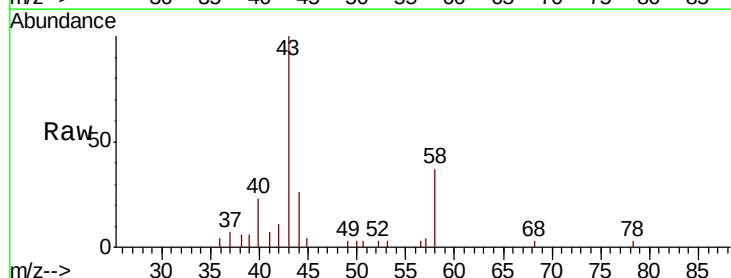
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

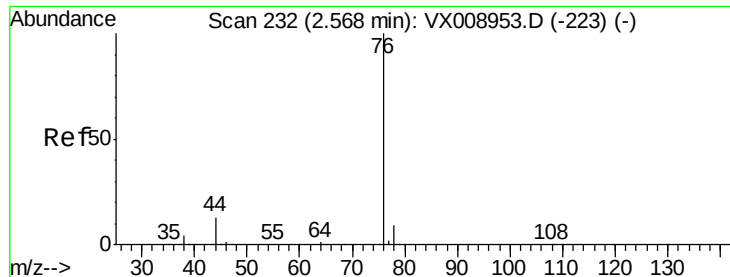
Tot Ion: 56 Resp: 162
Ion Ratio Lower Upper
56 100
55 95.1 56.6 84.8#



#16
Acetone
Concen: 2.061 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion: 43 Resp: 3678
Ion Ratio Lower Upper
43 100
58 37.6 24.8 37.2#

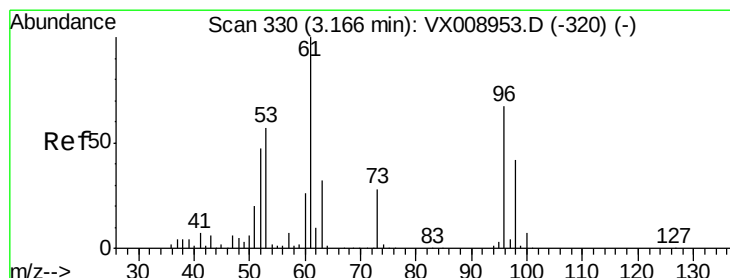
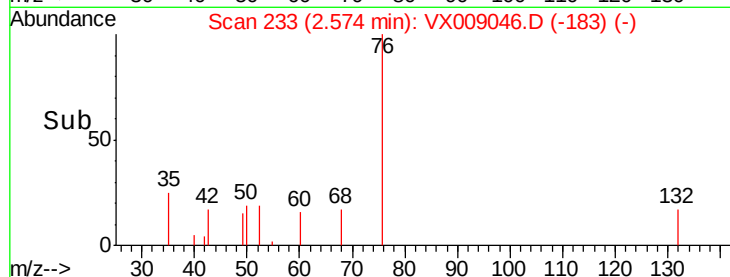
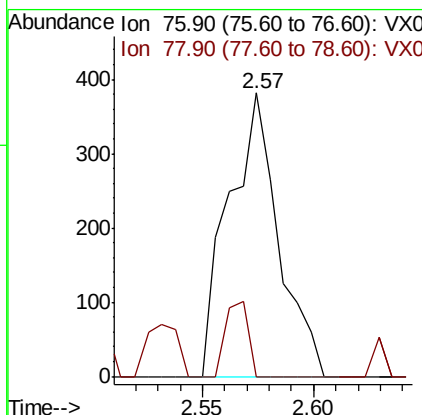
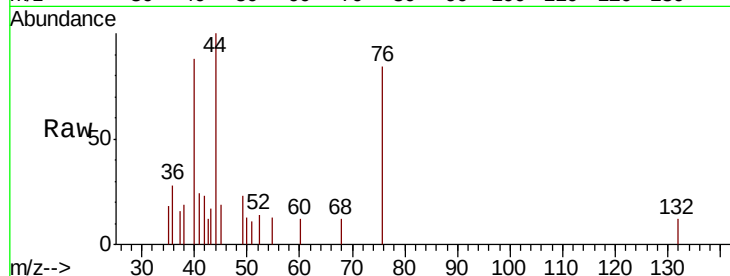




#17
Carbon Disulfide
Concen: 1.328 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

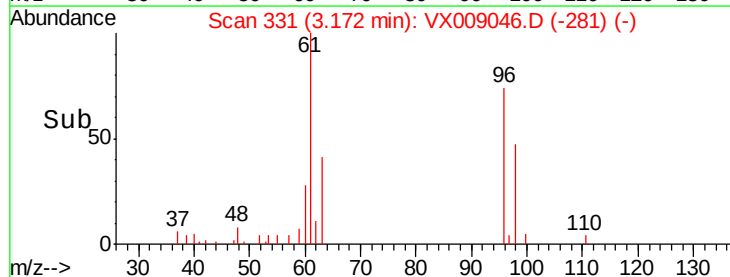
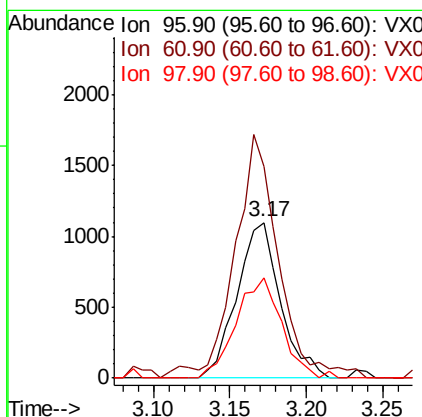
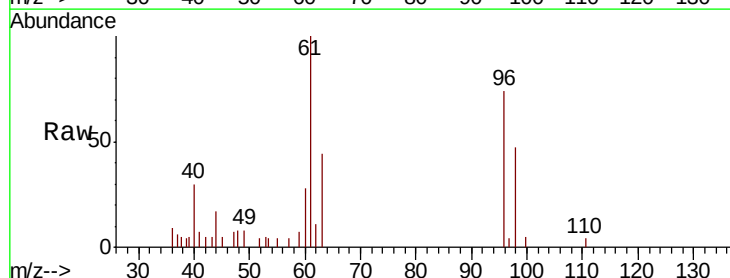
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

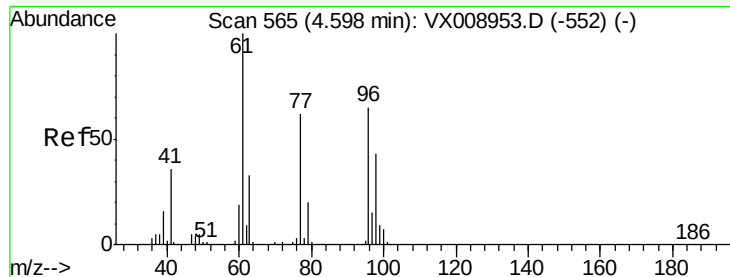
Tot Ion: 76 Resp: 594
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#21
trans-1,2-Dichloroethene
Concen: 0.774 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion: 96 Resp: 2161
Ion Ratio Lower Upper
96 100
61 128.8 120.3 180.5
98 64.1 50.2 75.2



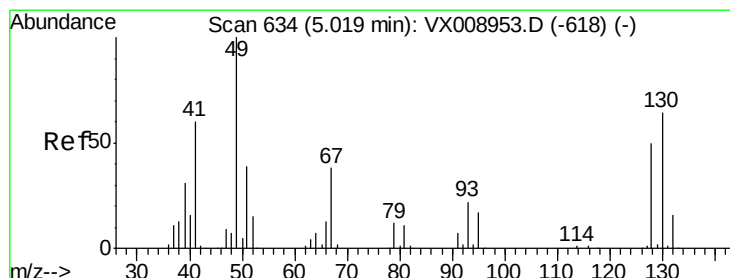
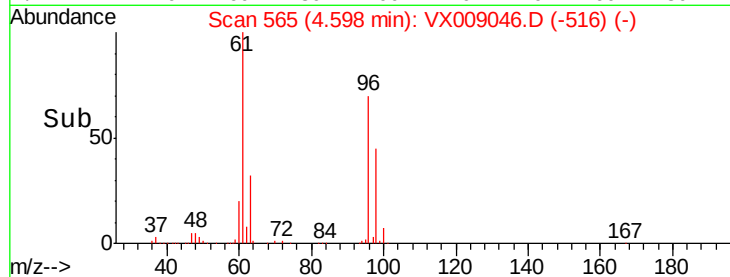
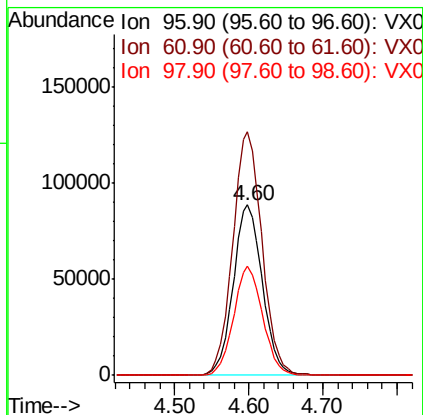
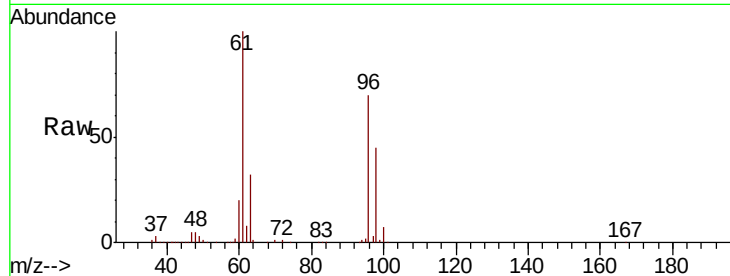


#27

cis-1,2-Dichloroethene
 Concen: 76.709 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Instrument :
 MSVOA_X
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 SS037MW309-190416

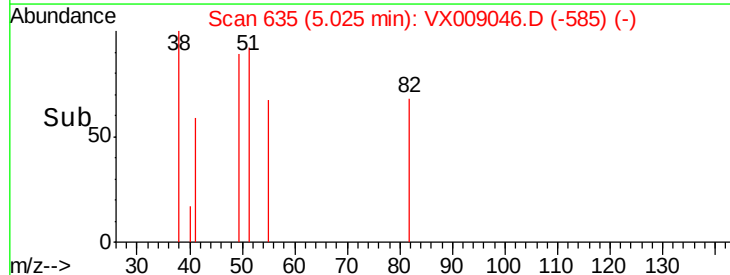
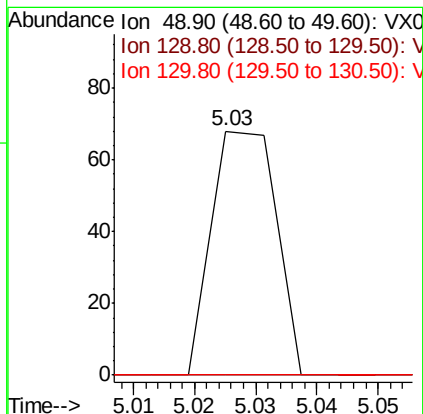
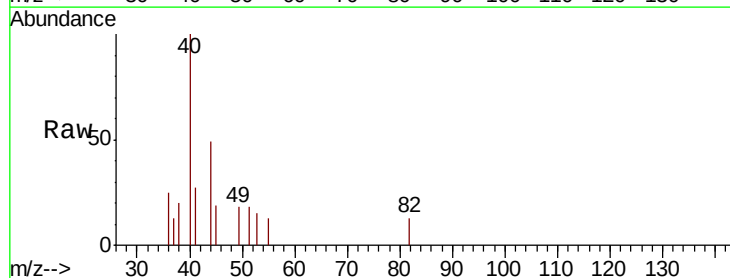
Tot Ion	Ratio	Lower	Upper
96	100		
61	143.4	0.0	322.0
98	64.0	0.0	128.4

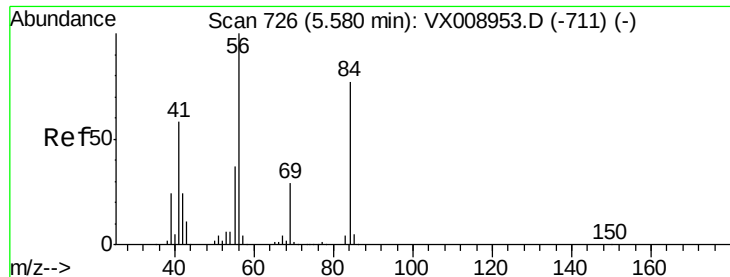


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#

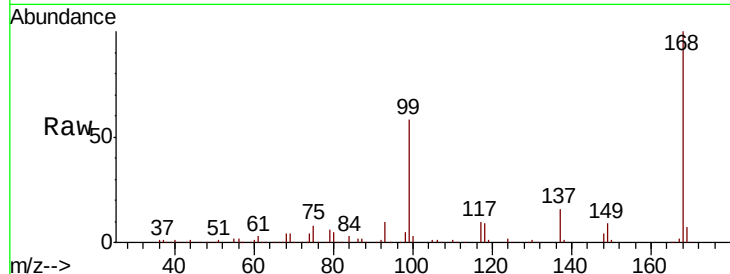




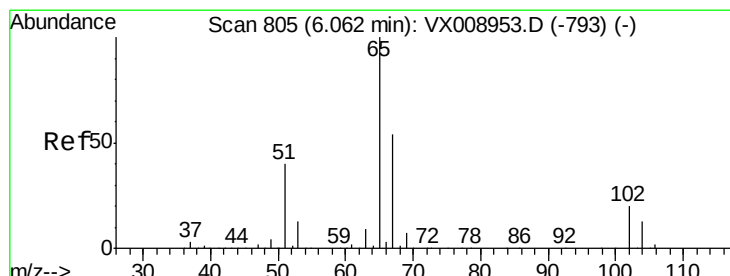
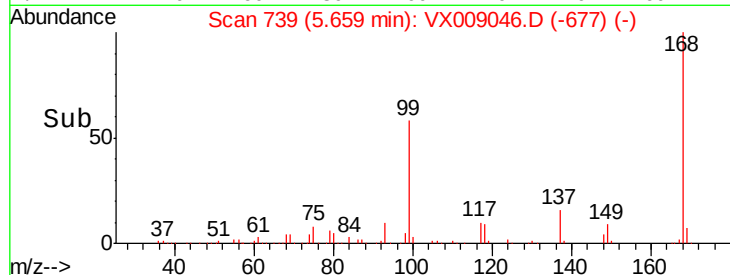
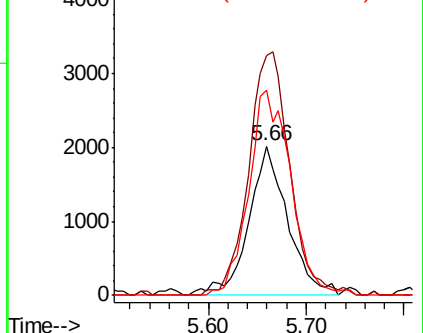
#31
Cyclohexane
Concen: 1.021 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

Tot Ion: 56 Resp: 5600
Ion Ratio Lower Upper
56 100
69 161.0 23.3 34.9#
84 137.9 61.7 92.5#

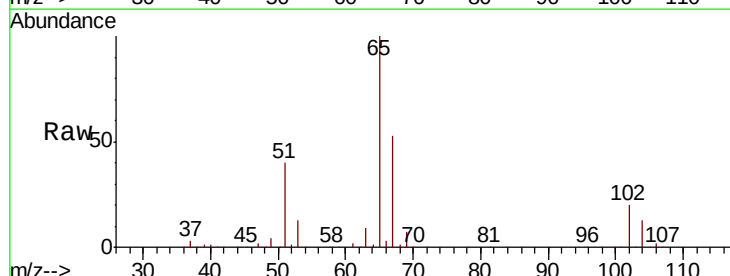


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

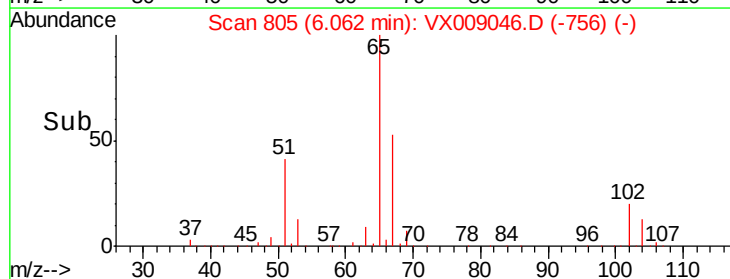
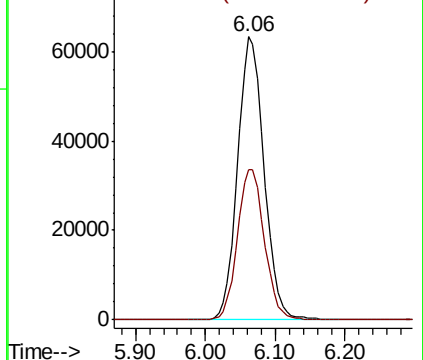


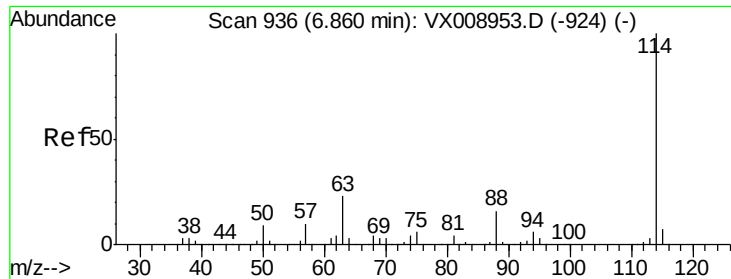
#33
1,2-Dichloroethane-d4
Concen: 48.299 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion: 65 Resp: 166243
Ion Ratio Lower Upper
65 100
67 54.0 0.0 108.6



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

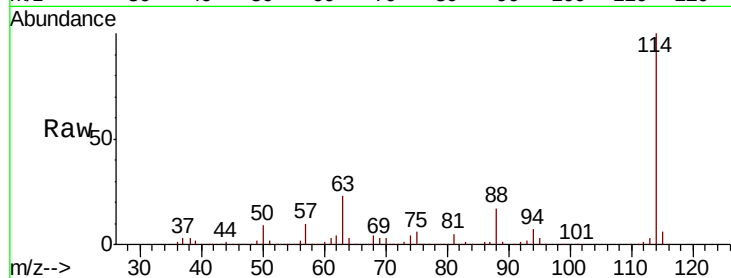




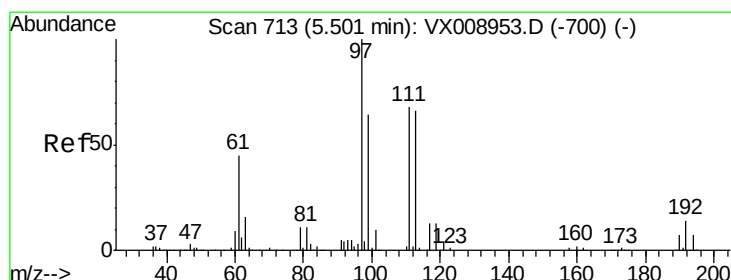
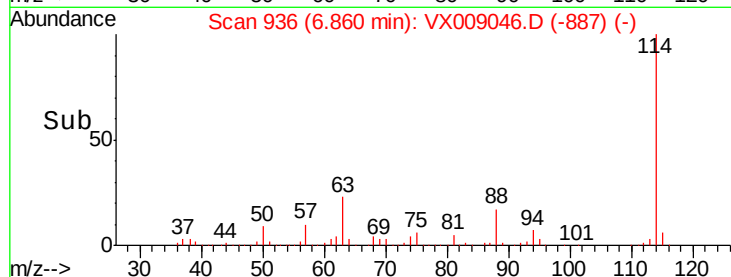
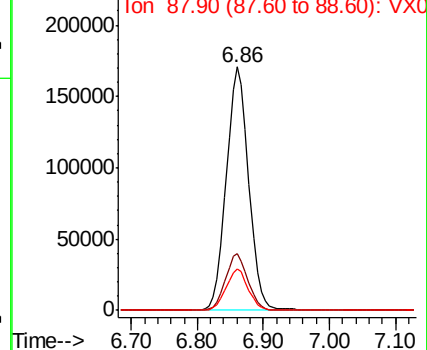
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

Tot Ion:114 Resp: 399455
Ion Ratio Lower Upper
114 100
63 23.2 0.0 46.0
88 17.1 0.0 32.6

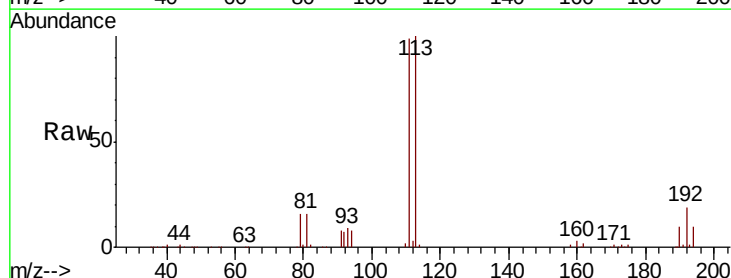


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

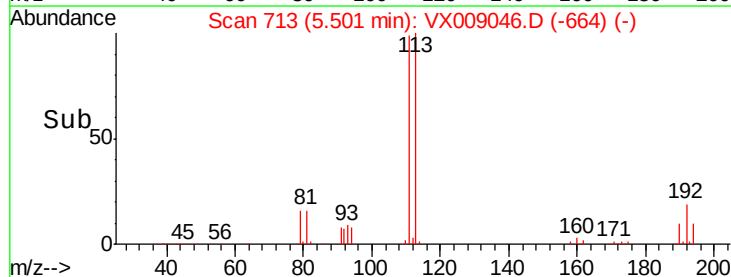
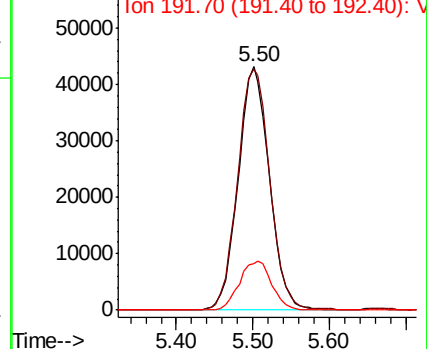


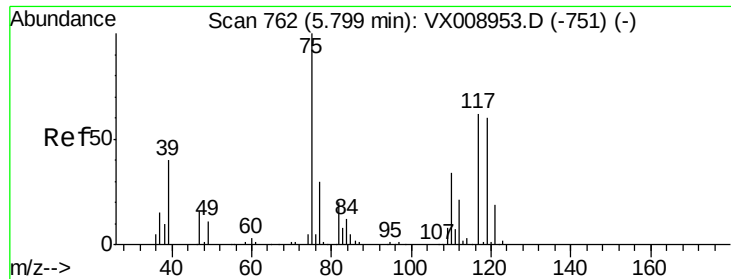
#35
Dibromofluoromethane
Concen: 47.420 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion:113 Resp: 121566
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 20.9 17.4 26.0



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

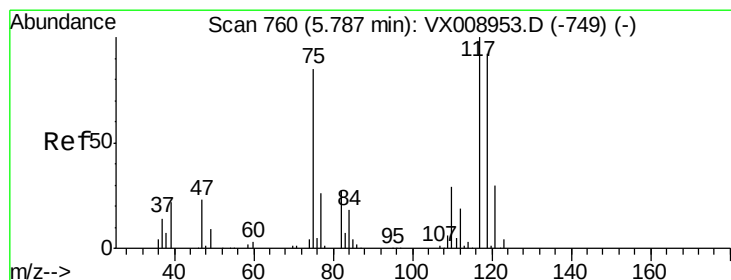
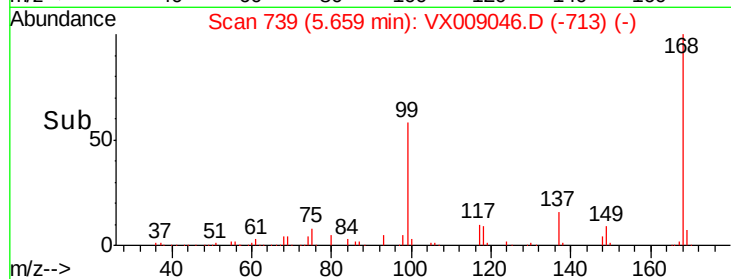
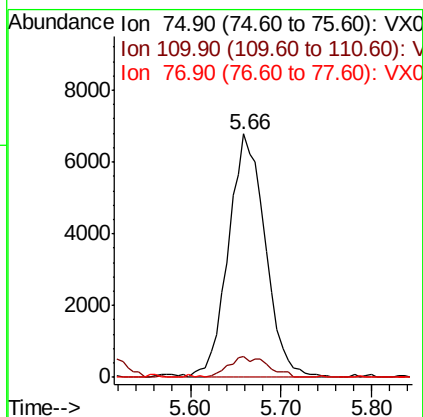
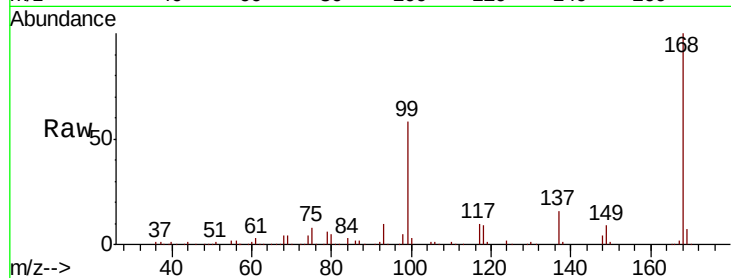




#36
 1,1-Dichloropropene
 Concen: 4.617 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

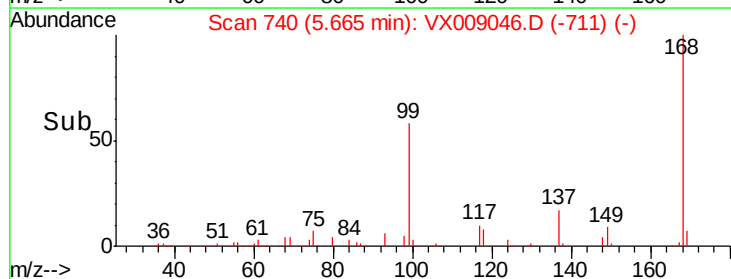
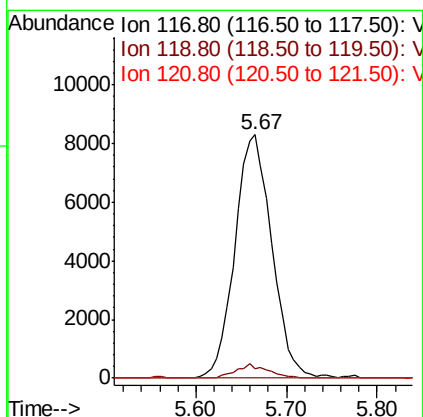
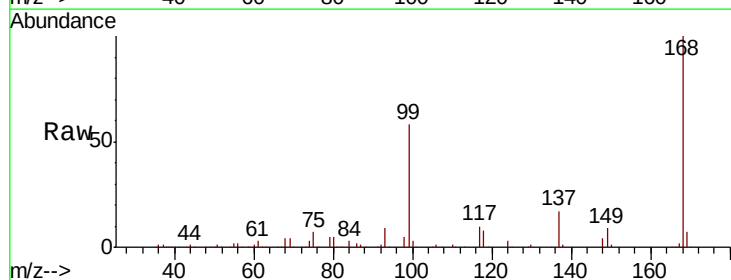
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-190416

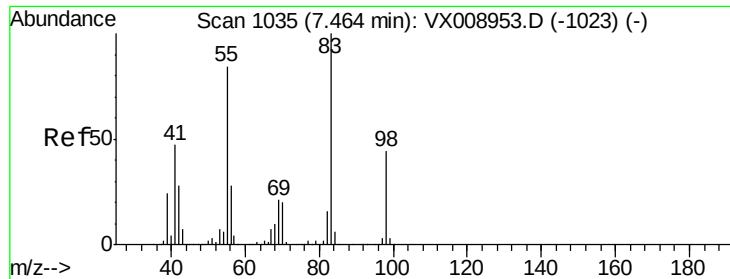
Tot Ion	75	Resp	19074
Ion Ratio	100	Lower	Upper
75	100		
110	9.0	16.9	50.7#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.687 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Tgt Ion	117	Resp	23421
Ion Ratio	100	Lower	Upper
117	100		
119	4.0	73.8	110.8#
121	0.0	23.6	35.4#

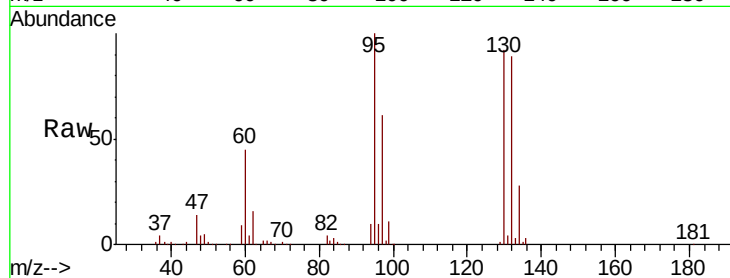




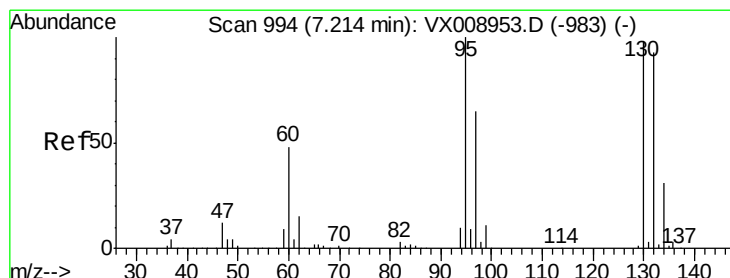
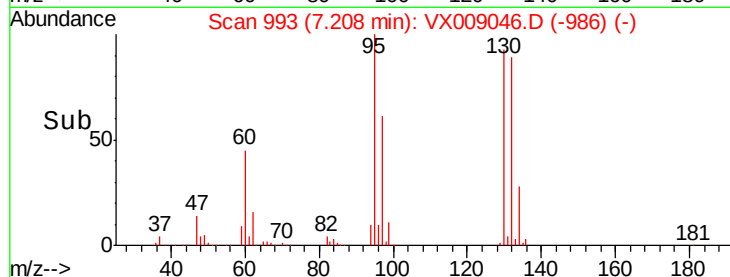
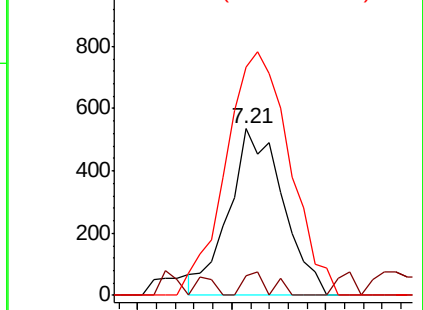
#39
Methylcyclohexane
Concen: 0.212 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

Tot Ion: 83 Resp: 1064
Ion Ratio Lower Upper
83 100
55 11.9 67.1 100.7#
98 136.6 35.1 52.7#

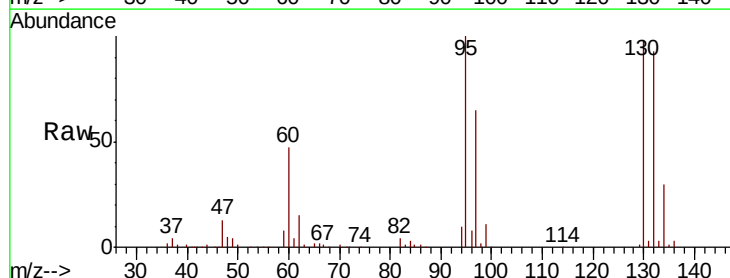


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

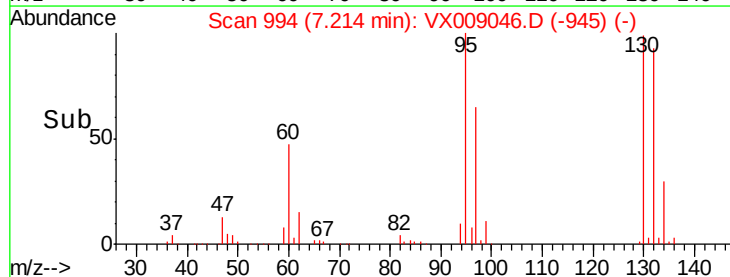
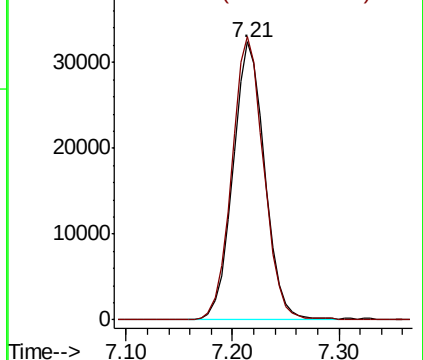


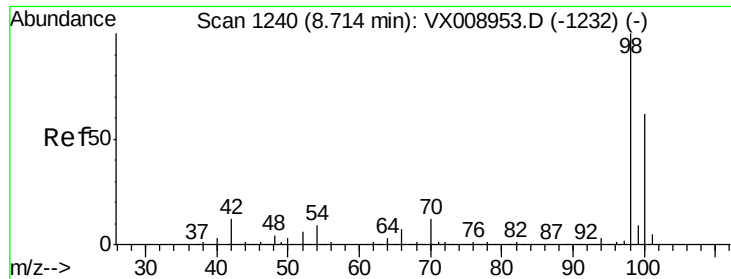
#44
Trichloroethene
Concen: 22.697 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion:130 Resp: 67777
Ion Ratio Lower Upper
130 100
95 101.8 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

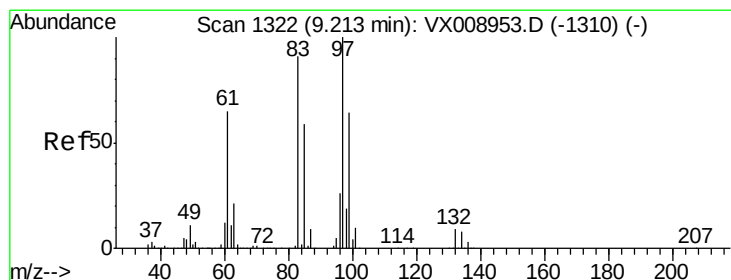
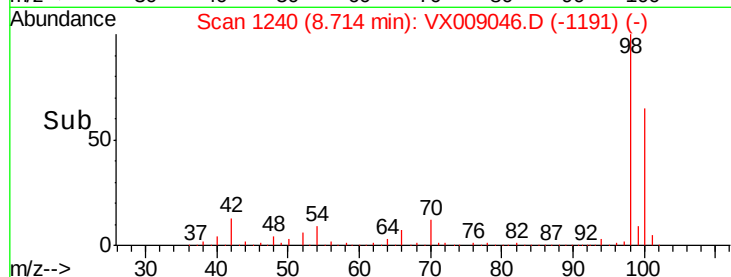
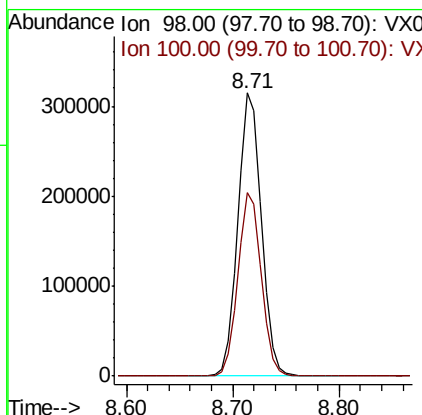
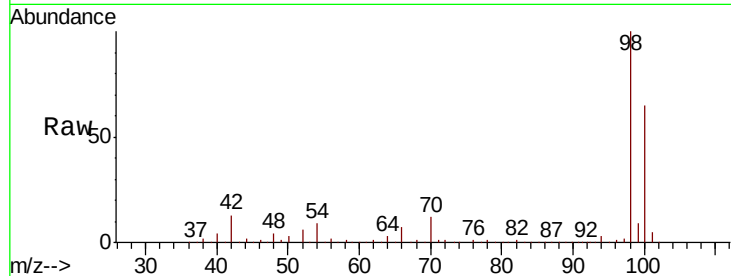




#50
Toluene-d8
Concen: 47.898 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

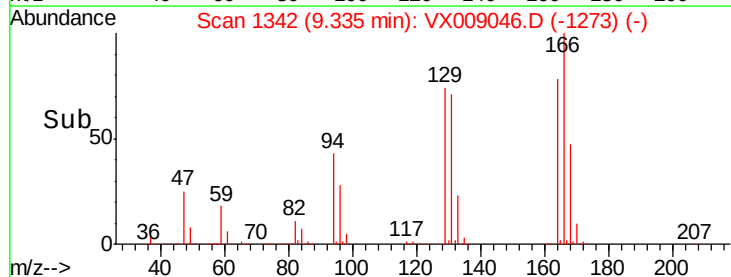
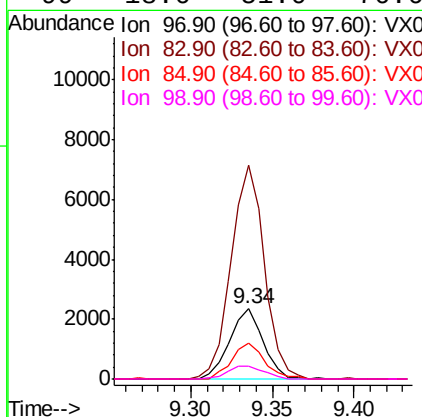
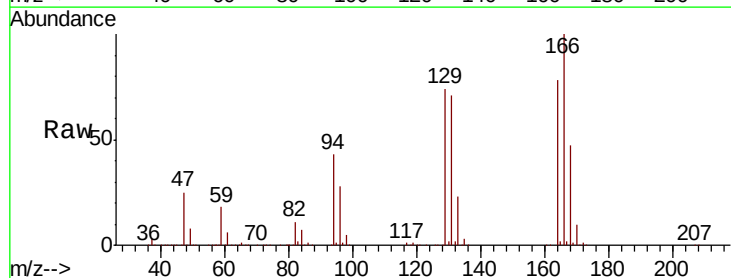
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

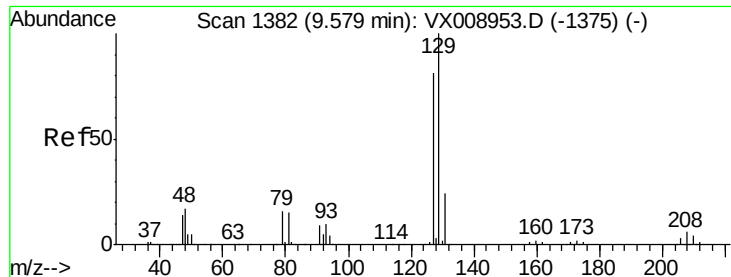
Tot Ion: 98 Resp: 489703
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2



#55
1,1,2-Trichloroethane
Concen: 1.157 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.12 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion: 97 Resp: 3350
Ion Ratio Lower Upper
97 100
83 305.3 72.6 108.8#
85 50.8 46.9 70.3
99 18.6 51.0 76.6#





#60

Dibromochloromethane

Concen: 138.745 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

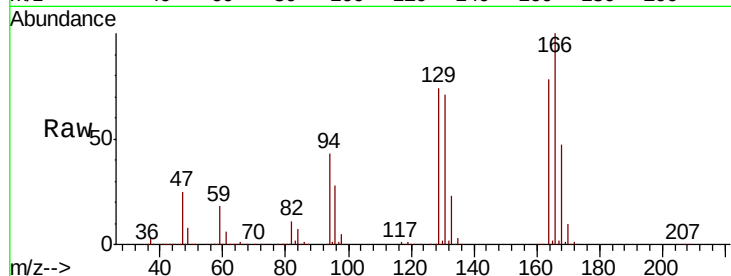
SS037MW309-190416

Tot Ion:129 Resp: 384941

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

250000

200000

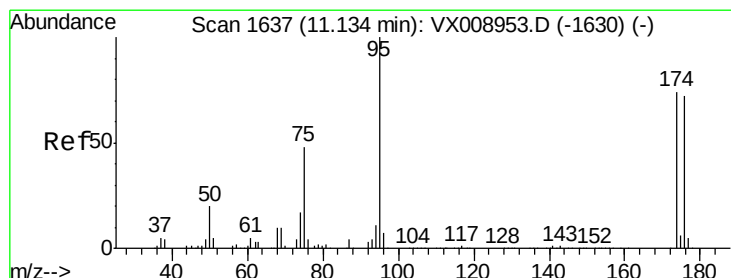
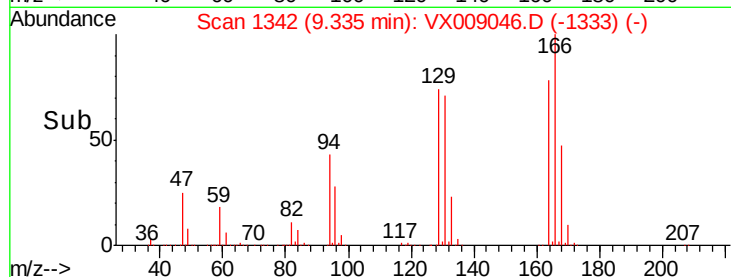
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.970 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

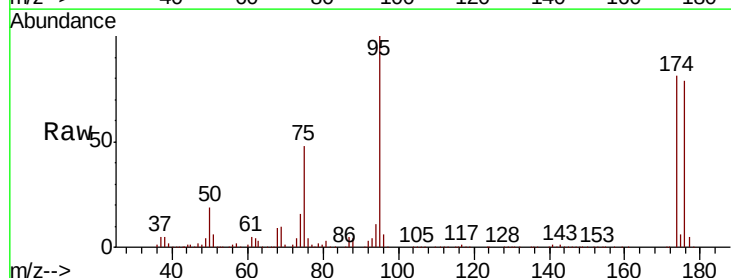
Tgt Ion: 95 Resp: 162297

Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.6

176 75.9 0.0 154.8



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

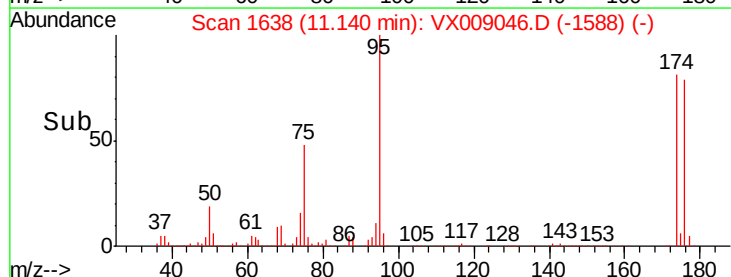
150000

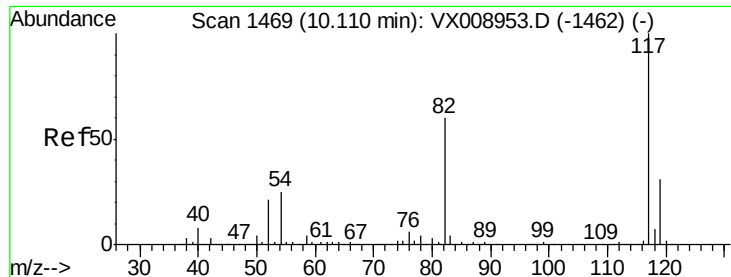
100000

50000

0

Time-->

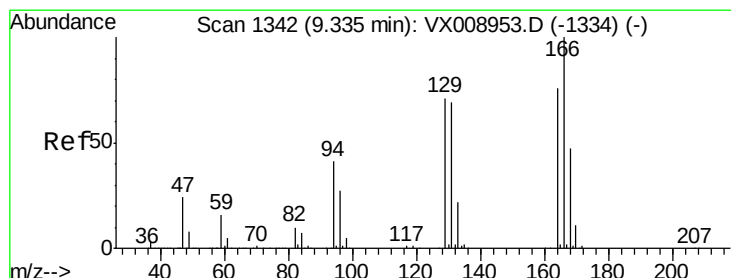
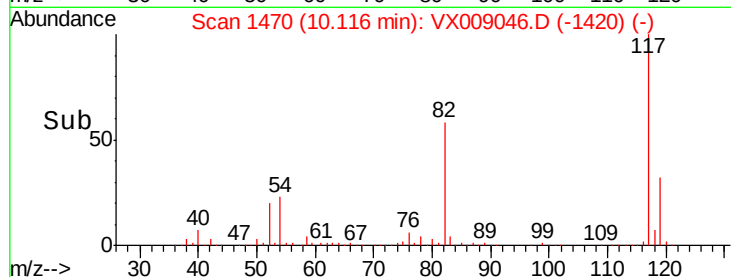
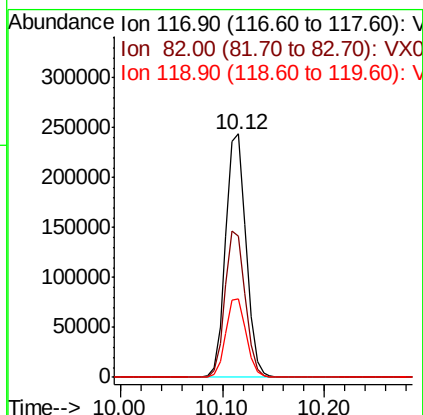
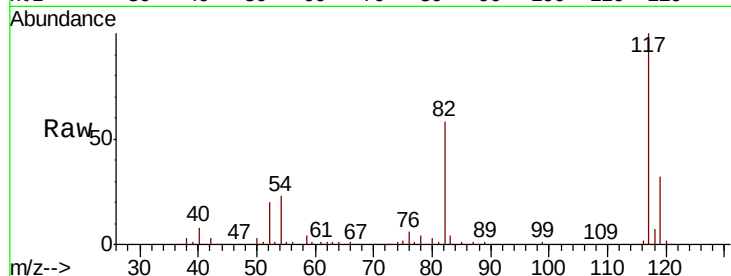




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

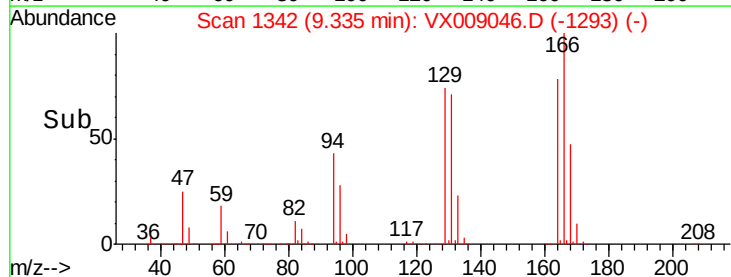
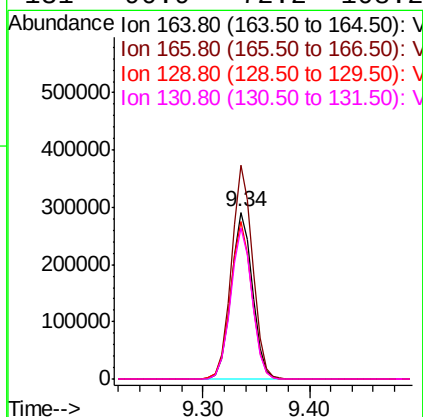
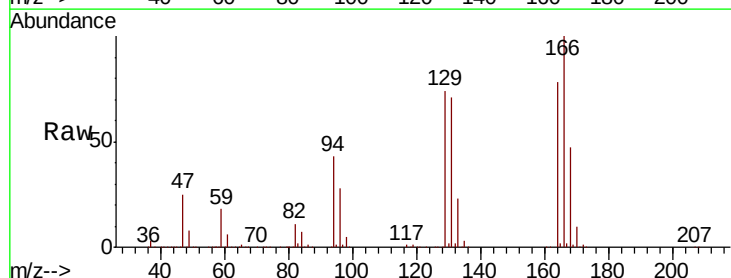
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

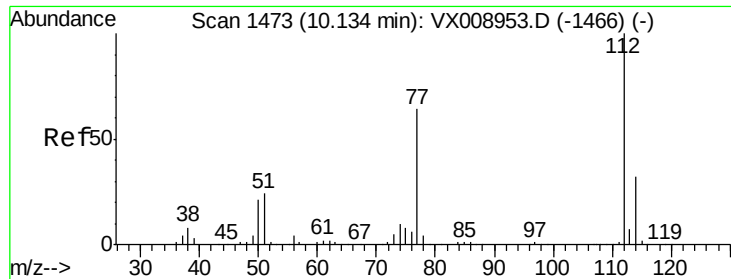
Tot Ion:117 Resp: 337829
Ion Ratio Lower Upper
117 100
82 58.2 48.2 72.4
119 32.0 25.0 37.6



#64
Tetrachloroethene
Concen: 159.256 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion:164 Resp: 408719
Ion Ratio Lower Upper
164 100
166 128.0 105.0 157.4
129 94.6 74.2 111.4
131 90.9 72.2 108.2

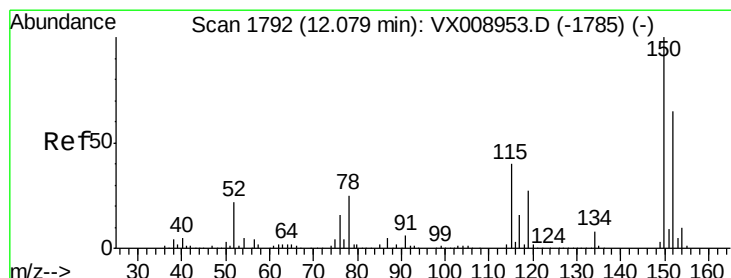
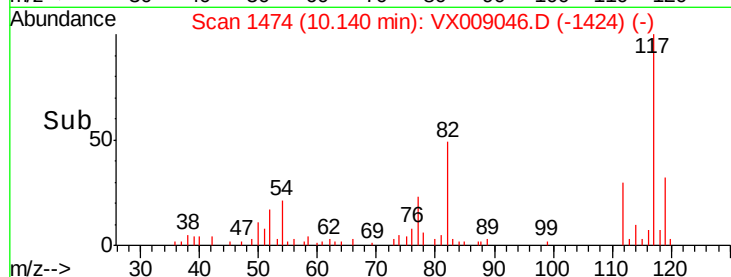
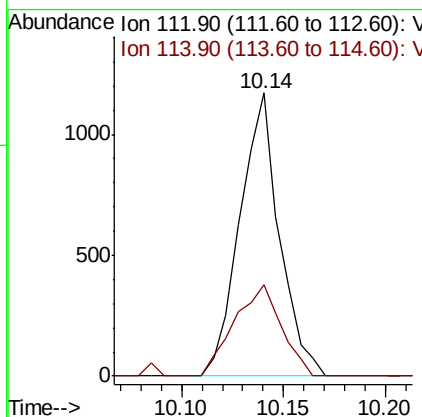
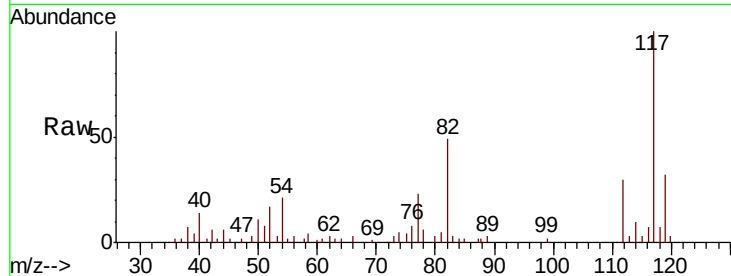




#65
Chlorobenzene
Concen: 0.221 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

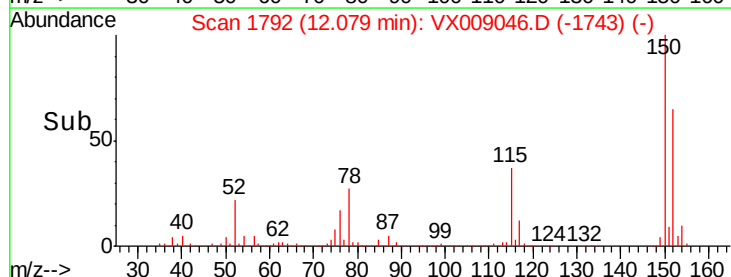
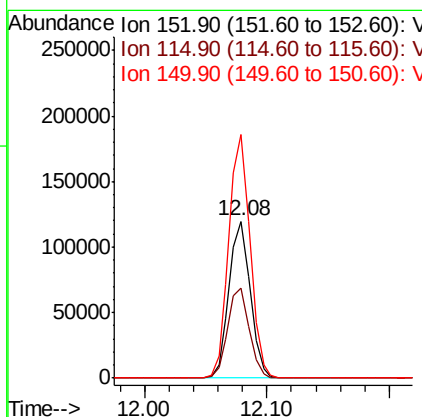
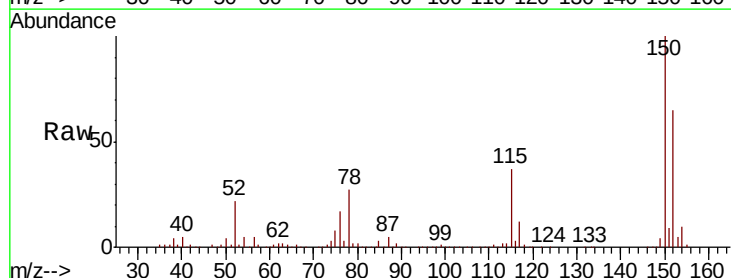
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-190416

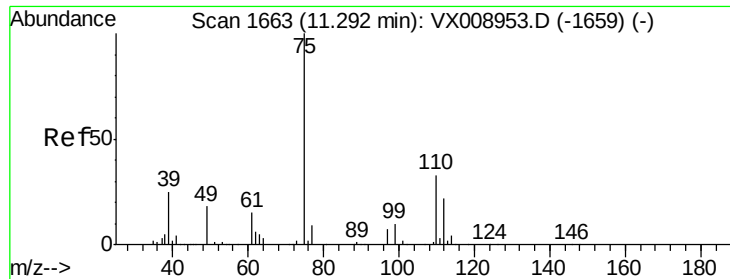
Tot Ion:112 Resp: 1574
Ion Ratio Lower Upper
112 100
114 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009046.D
Acq: 18 Apr 2019 16:08

Tgt Ion:152 Resp: 143835
Ion Ratio Lower Upper
152 100
115 57.9 41.4 124.2
150 155.0 0.0 349.8





#76

1,2,3-Trichloropropane

Concen: 23.374 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

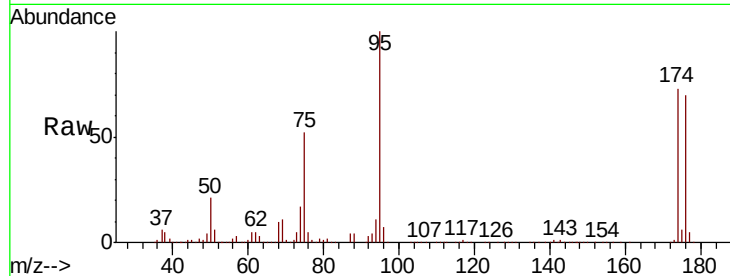
SS037MW309-190416

Tot Ion: 75 Resp: 82093

Ion Ratio Lower Upper

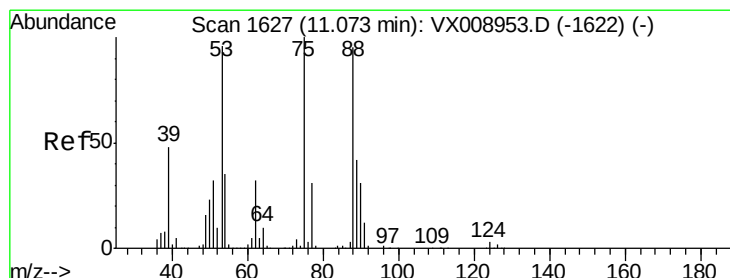
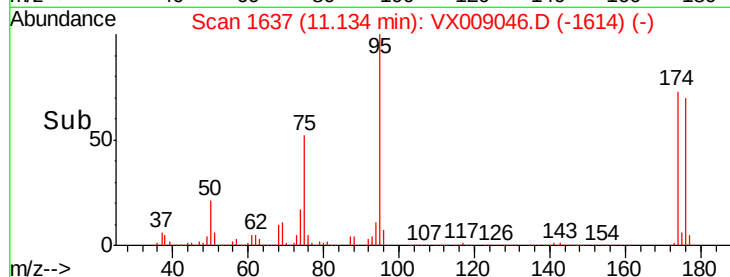
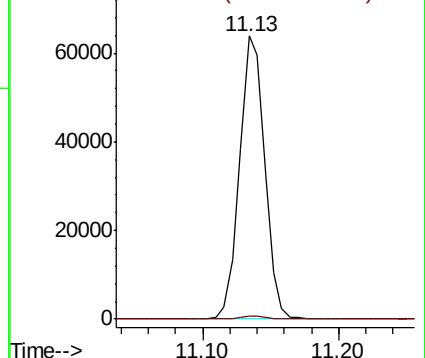
75 100

77 1.2 22.7 68.0#



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: 60.007 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009046.D

Acq: 18 Apr 2019 16:08

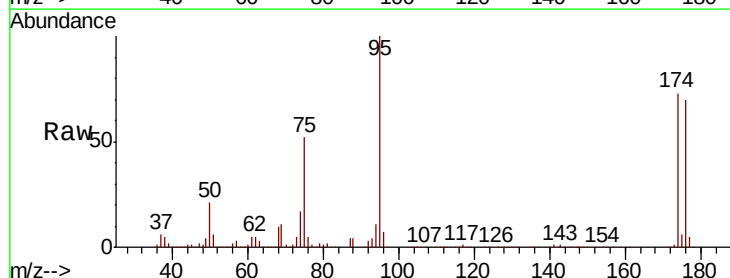
Tgt Ion: 75 Resp: 82093

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

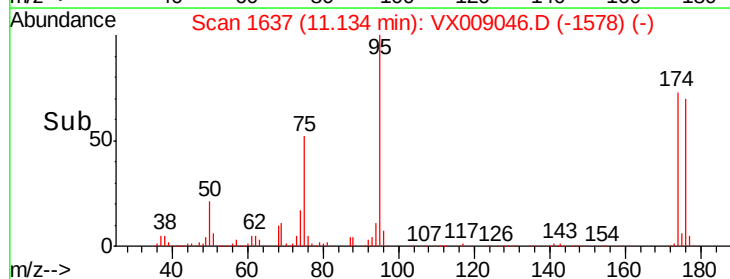
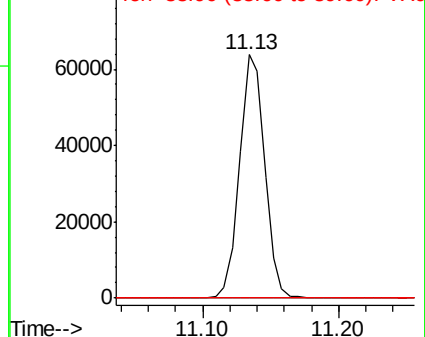
89 0.0 36.0 54.0#

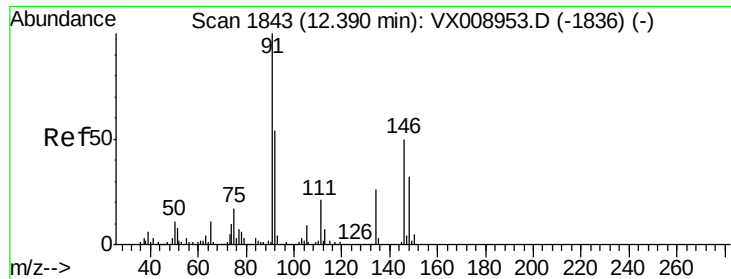


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91
 1,2-Dichlorobenzene
 Concen: 0.298 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. 0.01 min
 Lab File: VX009046.D
 Acq: 18 Apr 2019 16:08

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-190416

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	20.6	61.9
148	62.9	32.0	96.2

