

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062019\
 Data File : VX010357.D
 Acq On : 20 Jun 2019 15:15
 Operator : JC/SP
 Sample : K3469-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 01:21:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	314050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	473177	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	424644	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202955	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	142606	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	5.50	113	144104	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
50) Toluene-d8	8.71	98	553577	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.13	95	188913	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	

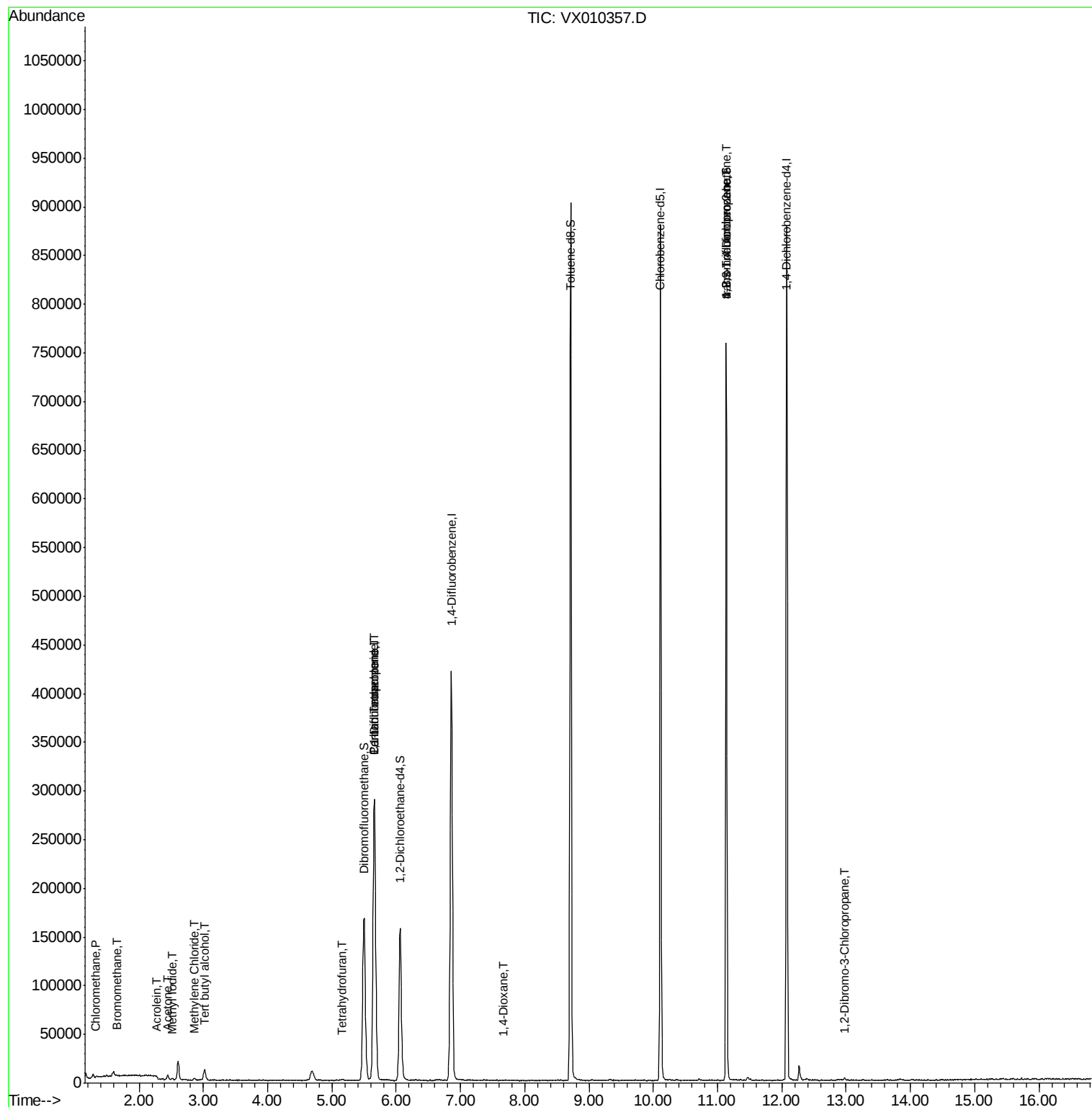
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	744	0.293	ug/l	91
5) Bromomethane	1.65	94	790	0.582	ug/l #	62
10) Methyl Iodide	2.53	142	1047	0.274	ug/l #	44
11) Tert butyl alcohol	3.02	59	6725	8.728	ug/l #	91
13) Acrolein	2.28	56	205	0.401	ug/l #	43
16) Acetone	2.44	43	5286	3.582	ug/l #	87
20) Methylene Chloride	2.85	84	957	0.315	ug/l #	87
29) Tetrahydrofuran	5.15	42	886	0.661	ug/l #	84
36) 1,1-Dichloropropene	5.66	75	18662	4.963	ug/l #	47
38) Carbon Tetrachloride	5.66	117	27250	6.693	ug/l #	16
49) 1,4-Dioxane	7.66	88	24	0.280	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	87934	23.776	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87934	55.468	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	12.97	75	485	0.494	ug/l #	1

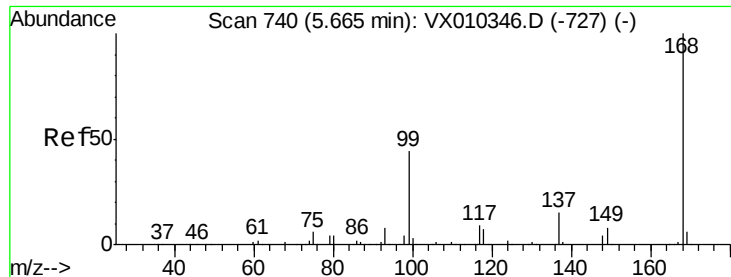
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

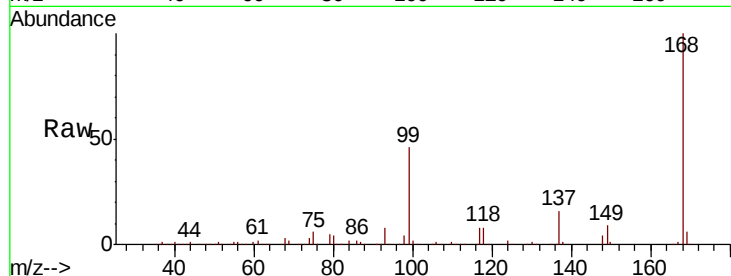
ClientSampleId :

Tot Ion:168 Resp: 314050

Ion Ratio Lower Upper

168 100

99 46.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

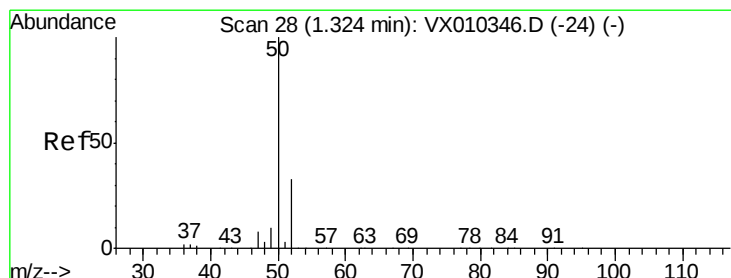
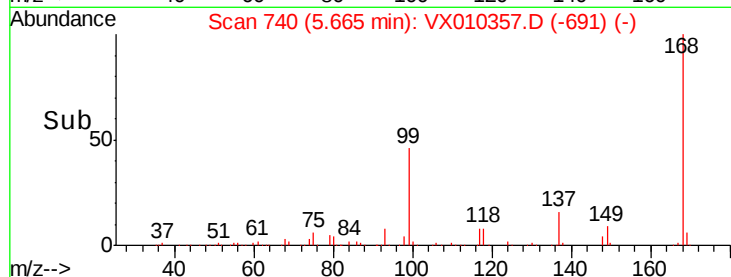
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010357.D

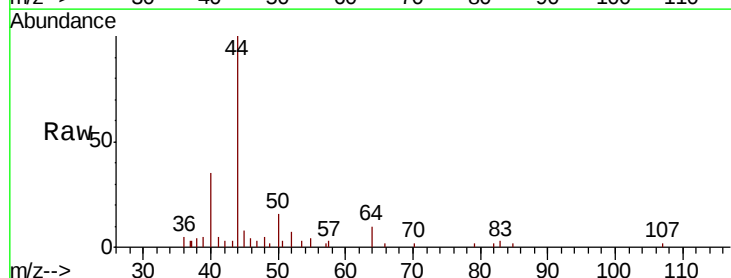
Acq: 20 Jun 2019 15:15

Tgt Ion: 50 Resp: 744

Ion Ratio Lower Upper

50 100

52 38.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

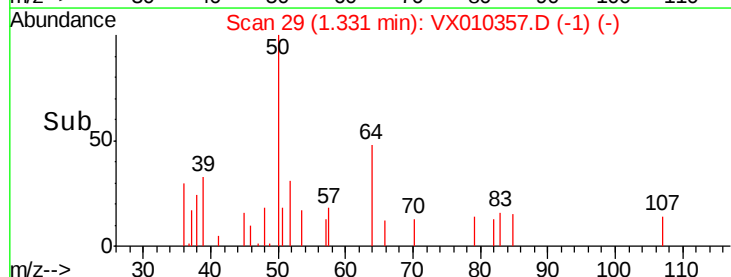
300

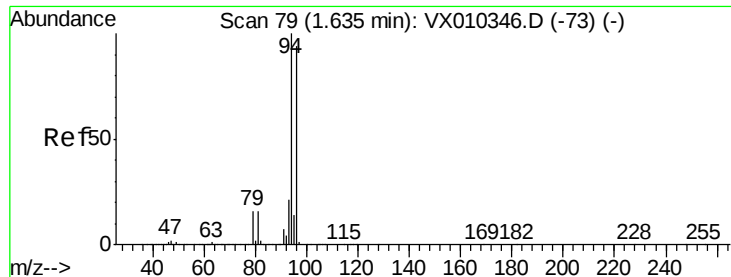
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.582 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

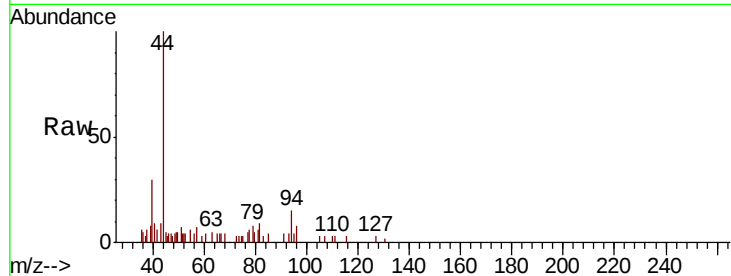
ClientSampleId :

Tot Ion: 94 Resp: 790

Ion Ratio Lower Upper

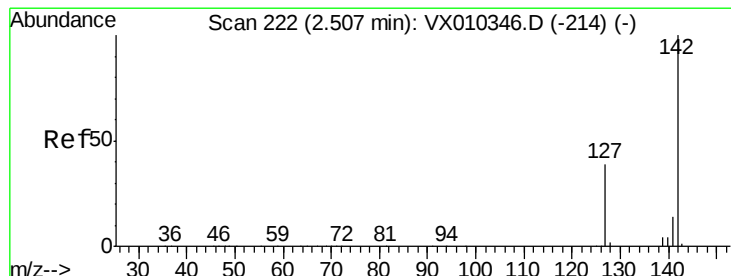
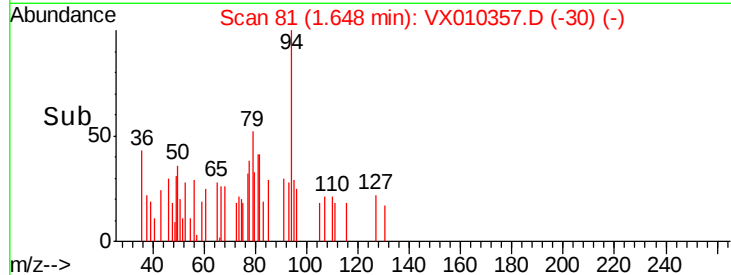
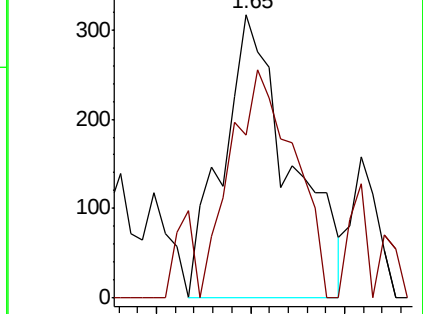
94 100

96 57.4 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.274 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

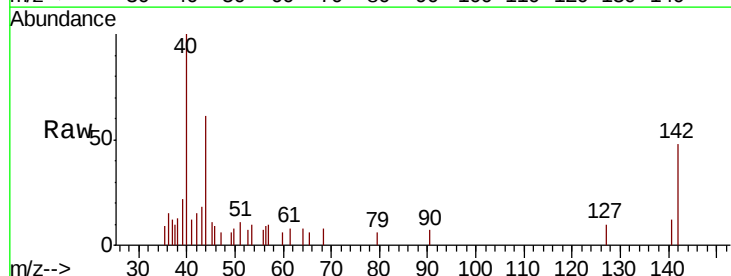
Tgt Ion: 142 Resp: 1047

Ion Ratio Lower Upper

142 100

127 0.0 31.1 46.7#

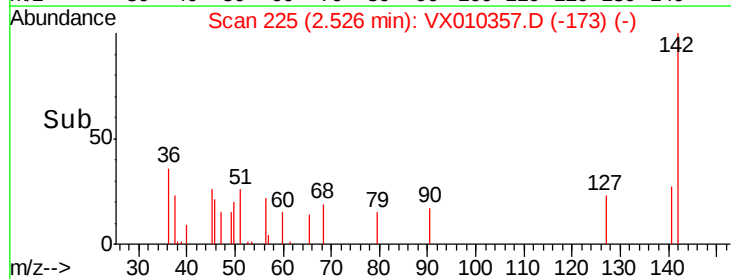
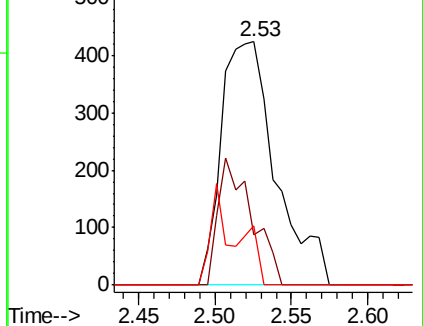
141 0.0 11.2 16.8#

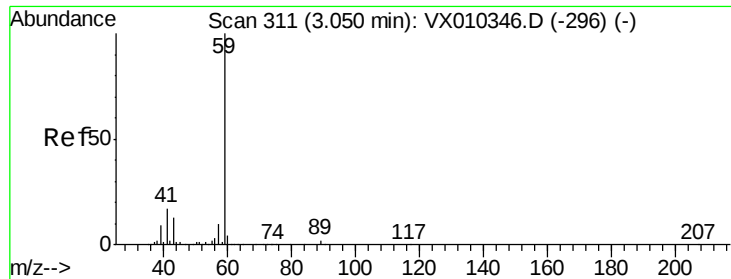


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



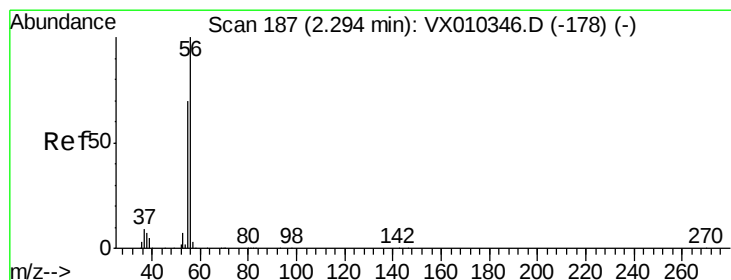
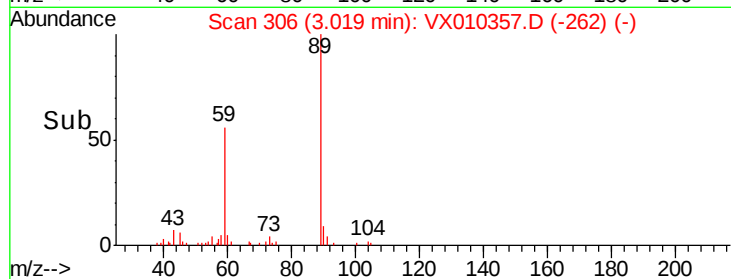
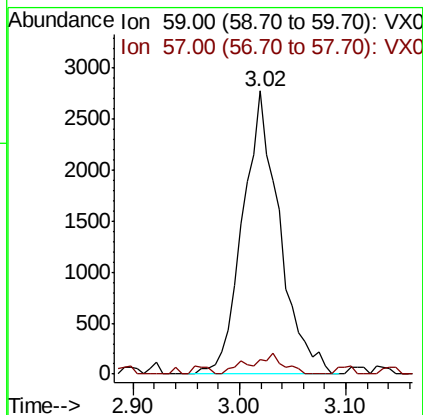
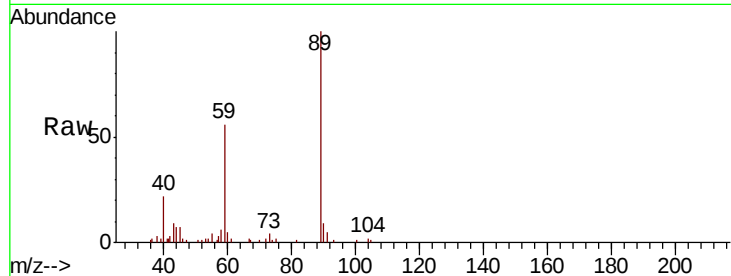


#11

Tert butyl alcohol
 Concen: 8.728 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010357.D
 Acq: 20 Jun 2019 15:15

Instrument :
 MSVOA_X
 ClientSampled :

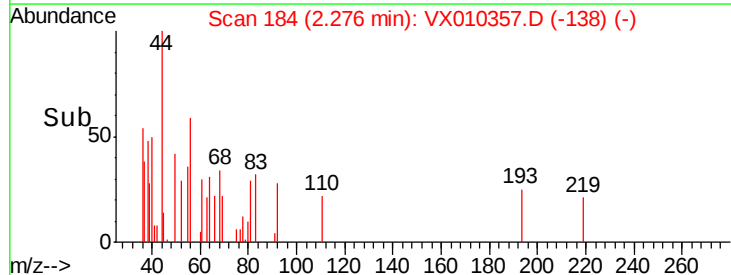
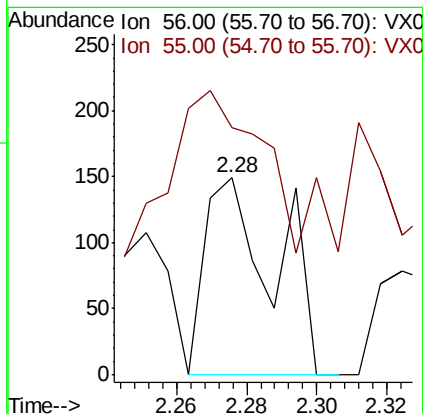
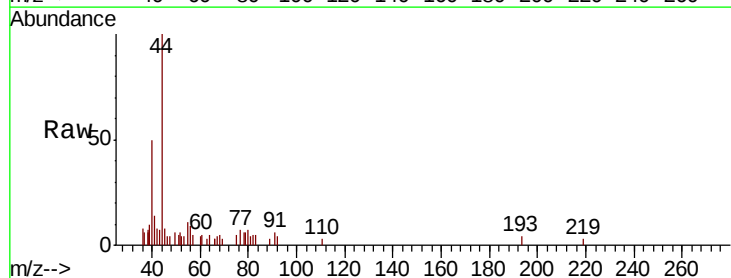
Tot Ion: 59 Resp: 6725
 Ion Ratio Lower Upper
 59 100
 57 6.4 7.7 11.5#

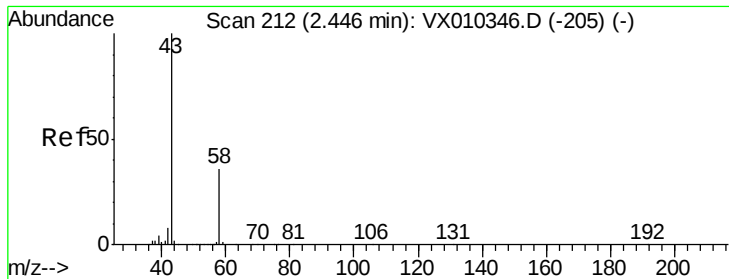


#13

Acrolein
 Concen: 0.401 ug/l
 RT: 2.28 min Scan# 184
 Delta R.T. -0.02 min
 Lab File: VX010357.D
 Acq: 20 Jun 2019 15:15

Tgt Ion: 56 Resp: 205
 Ion Ratio Lower Upper
 56 100
 55 118.0 56.9 85.3#





#16

Acetone

Concen: 3.582 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

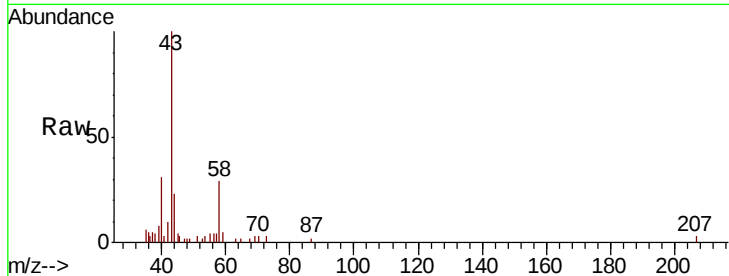
ClientSampleId :

Tot Ion: 43 Resp: 5286

Ion Ratio Lower Upper

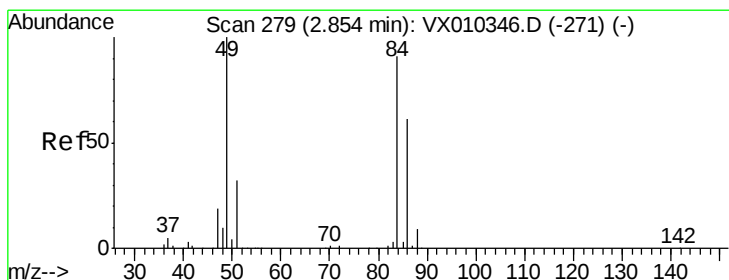
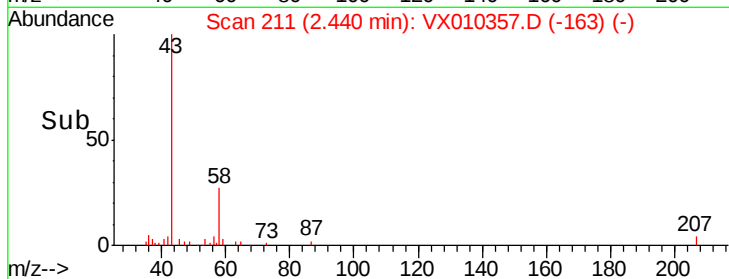
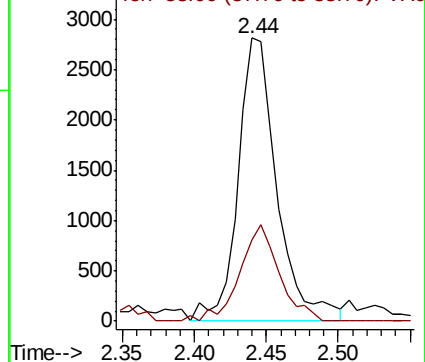
43 100

58 28.5 28.9 43.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.315 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Tgt Ion: 84 Resp: 957

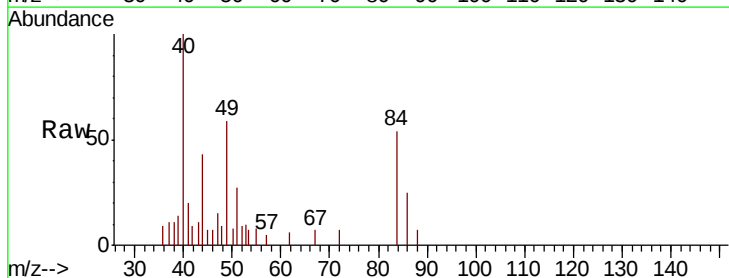
Ion Ratio Lower Upper

84 100

49 110.3 87.5 131.3

51 50.7 27.7 41.5#

86 46.1 53.4 80.0#

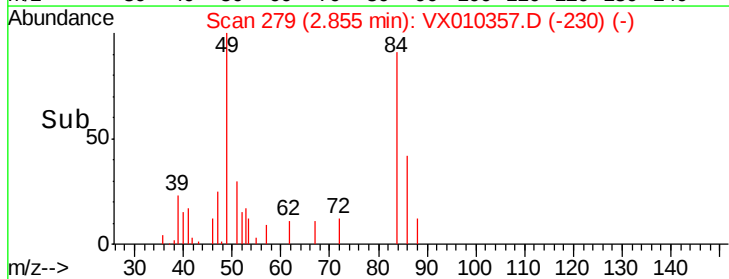
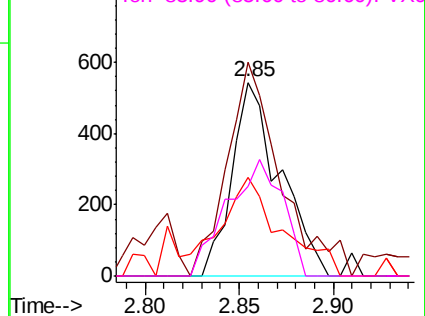


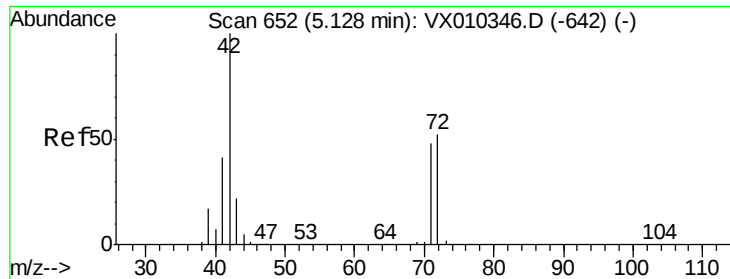
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#29

Tetrahydrofuran

Concen: 0.661 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

ClientSampled :

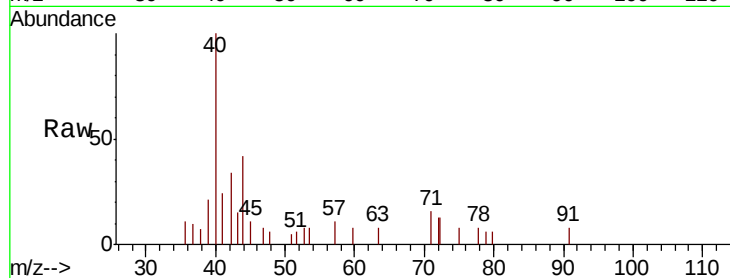
Tot Ion: 42 Resp: 886

Ion Ratio Lower Upper

42 100

72 67.2 40.6 60.8#

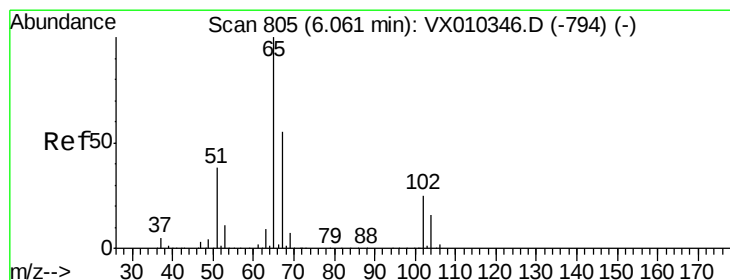
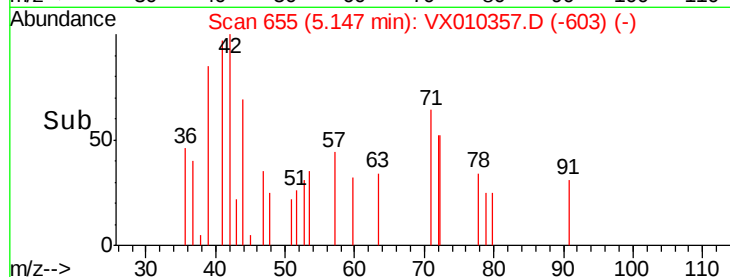
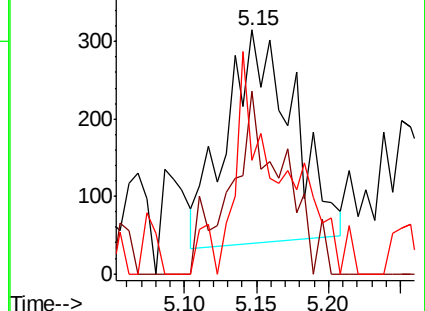
71 42.2 37.8 56.8



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



#33

1,2-Dichloroethane-d4

Concen: 48.431 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010357.D

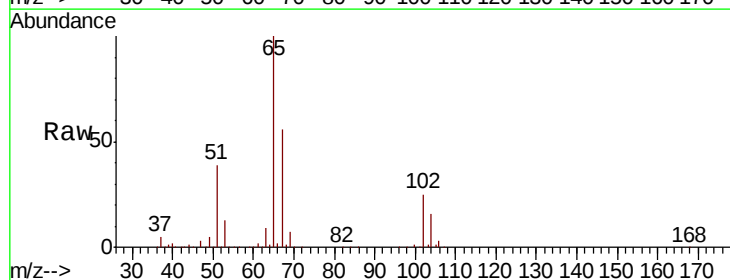
Acq: 20 Jun 2019 15:15

Tgt Ion: 65 Resp: 142606

Ion Ratio Lower Upper

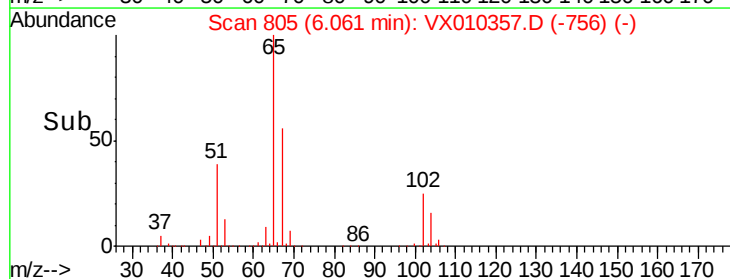
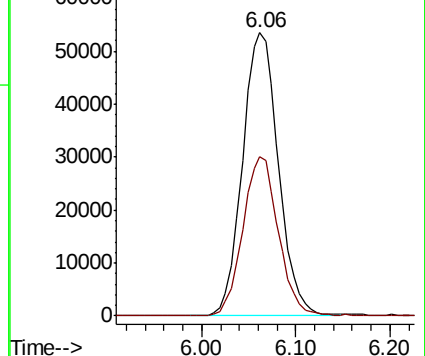
65 100

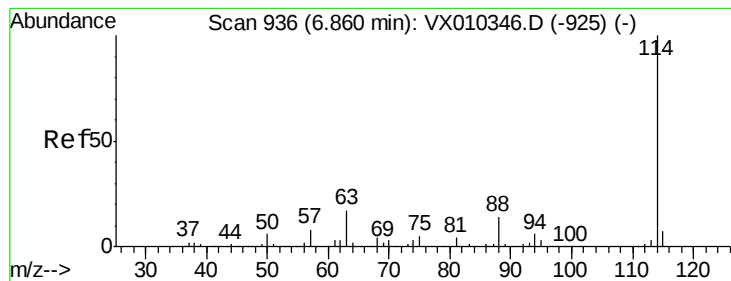
67 55.9 0.0 110.2



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: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

ClientSampleId :

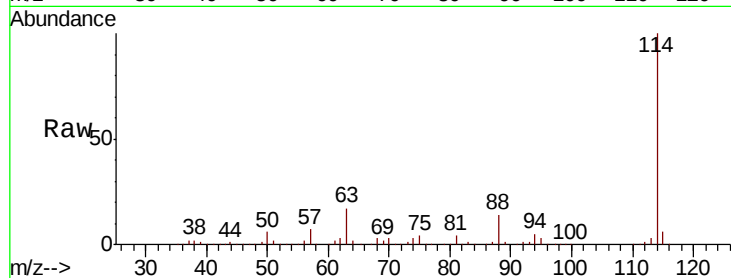
Tot Ion:114 Resp: 473177

Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

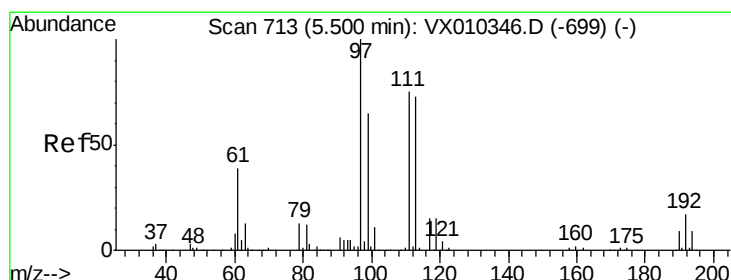
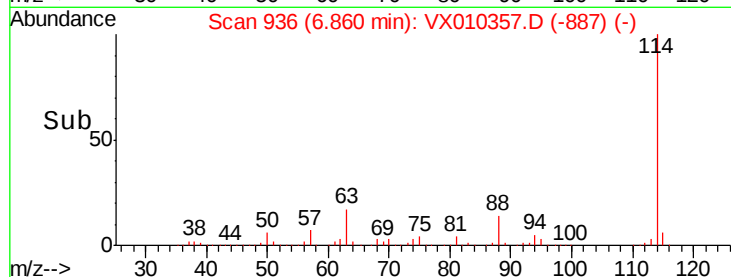
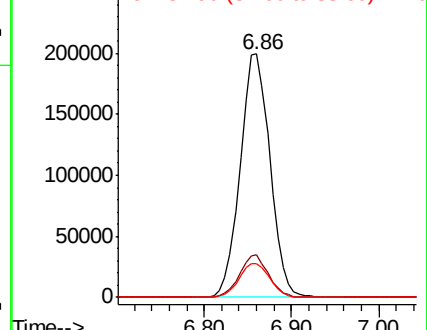
88 13.7 0.0 27.6



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: 49.776 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

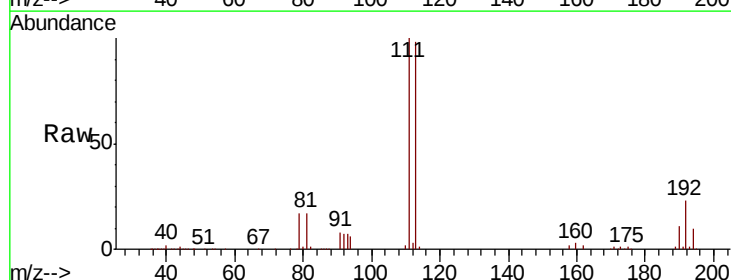
Tgt Ion:113 Resp: 144104

Ion Ratio Lower Upper

113 100

111 103.1 81.2 121.8

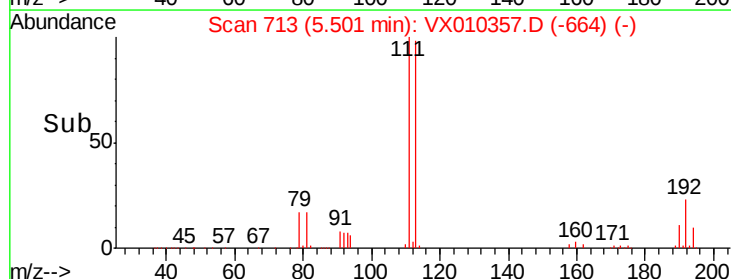
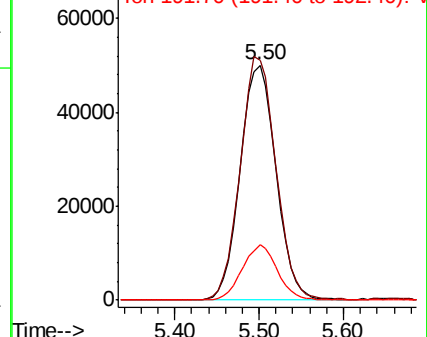
192 22.8 18.6 27.8

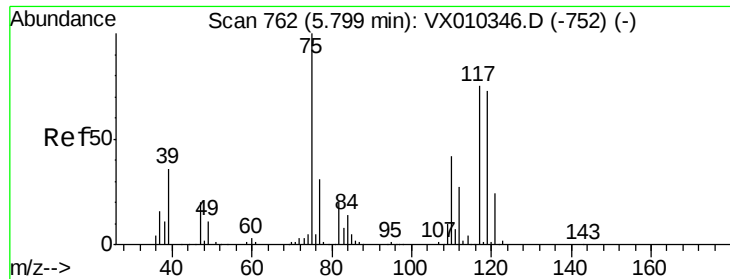


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

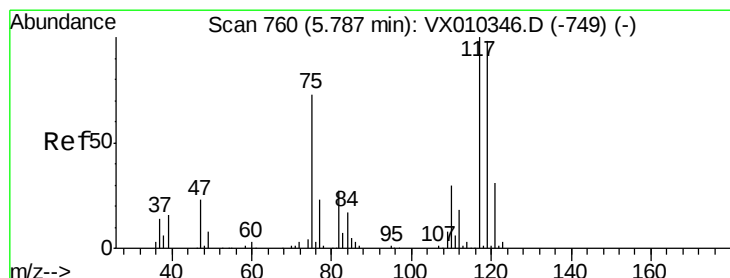
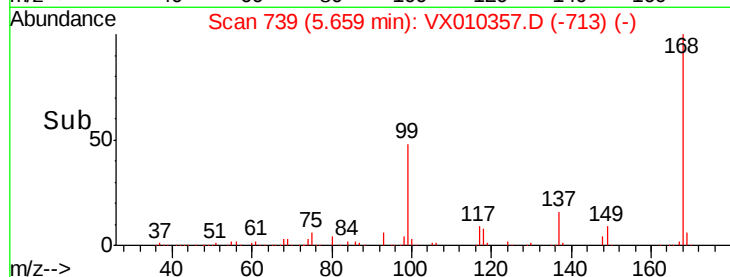
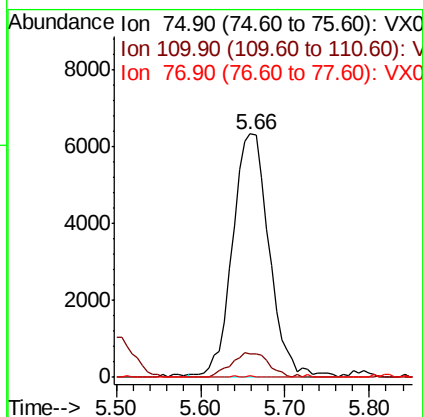
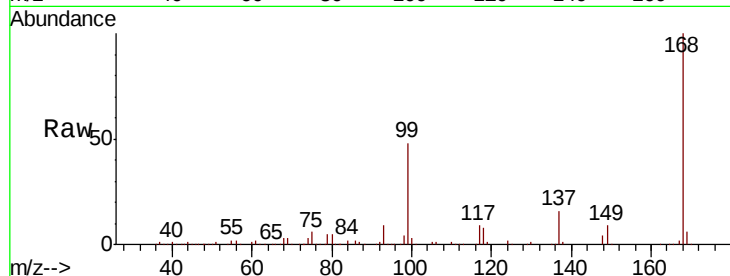




#36
 1,1-Dichloropropene
 Concen: 4.963 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010357.D
 Acq: 20 Jun 2019 15:15

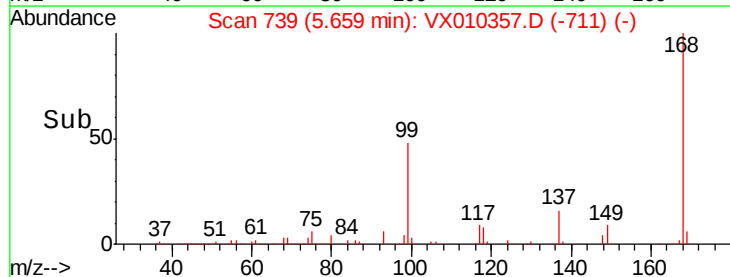
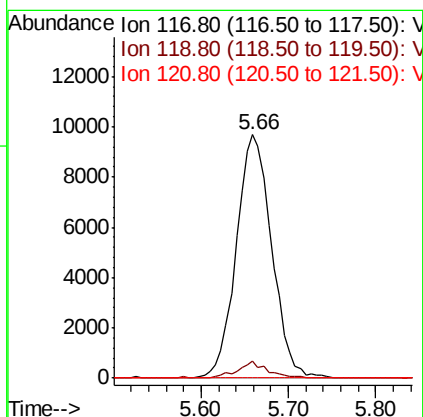
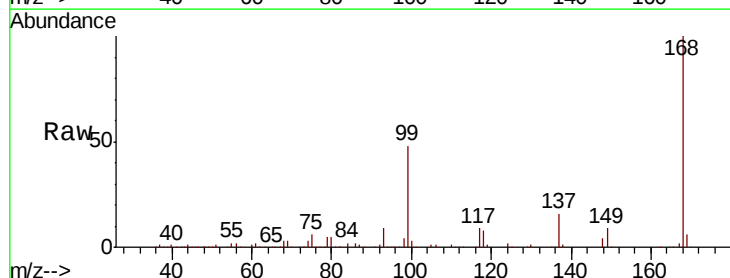
Instrument :
 MSVOA_X
 ClientSampleId :

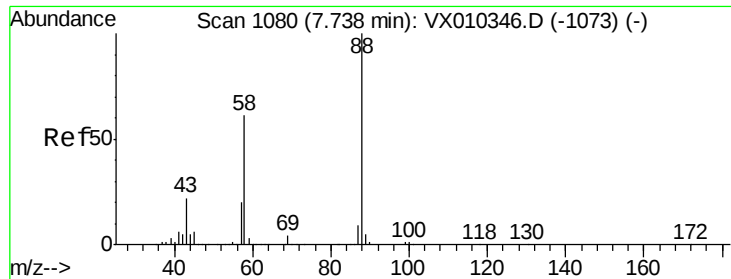
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.2	20.8	62.2#
77	0.1	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.693 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010357.D
 Acq: 20 Jun 2019 15:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	78.2	117.4#
121	0.0	24.7	37.1#

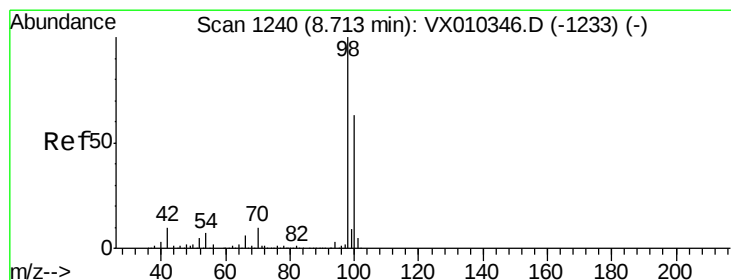
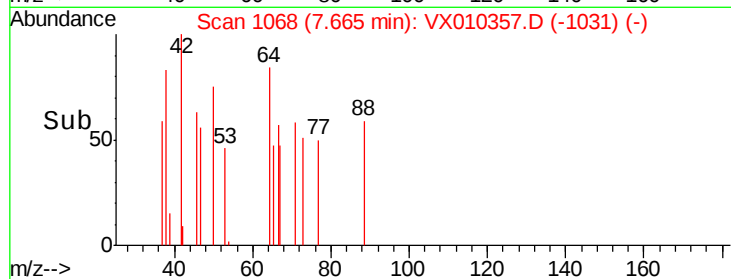
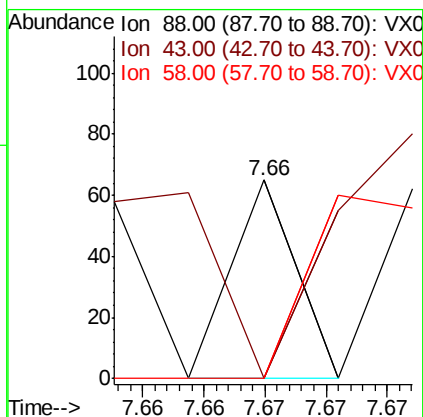
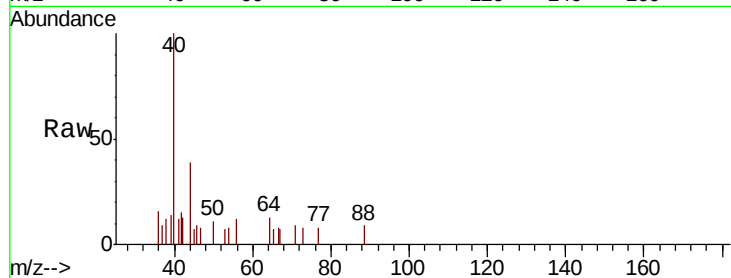




#49
1,4-Dioxane
Concen: 0.280 ug/l
RT: 7.66 min Scan# 1068
Delta R.T. -0.07 min
Lab File: VX010357.D
Acq: 20 Jun 2019 15:15

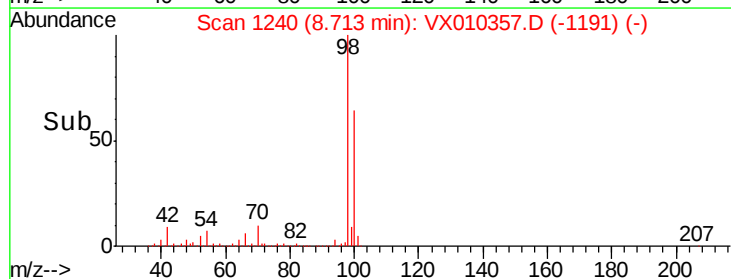
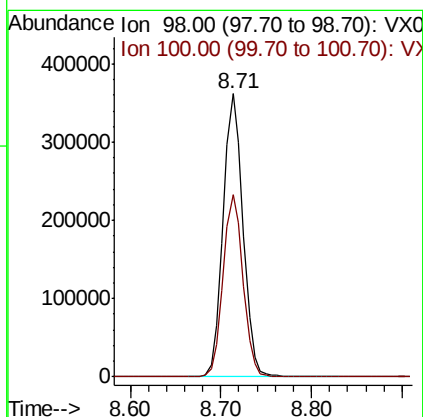
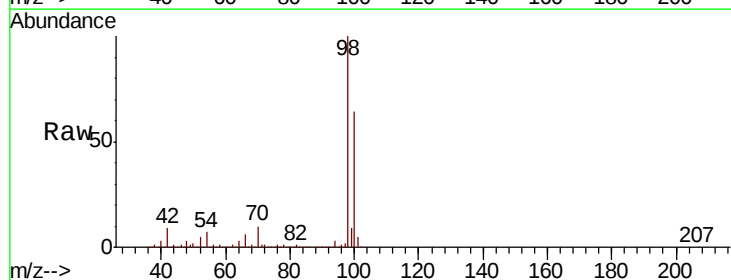
Instrument :
MSVOA_X
ClientSampled :

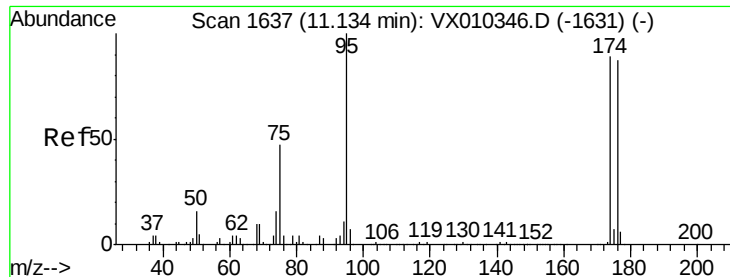
Tot Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 175.0 49.5 74.3#



#50
Toluene-d8
Concen: 49.980 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010357.D
Acq: 20 Jun 2019 15:15

Tgt Ion: 98 Resp: 553577
Ion Ratio Lower Upper
98 100
100 64.5 51.6 77.4

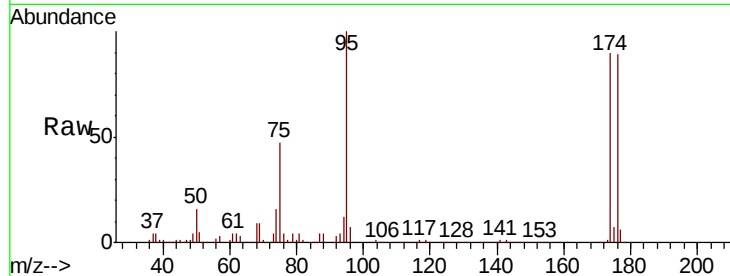




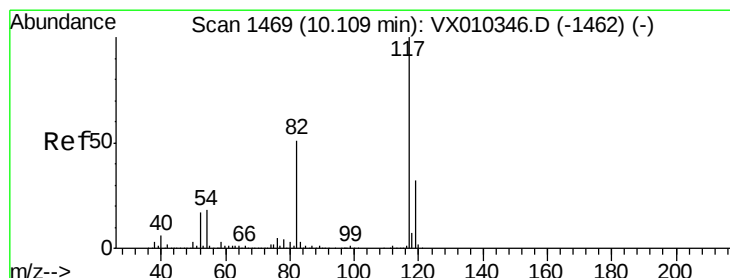
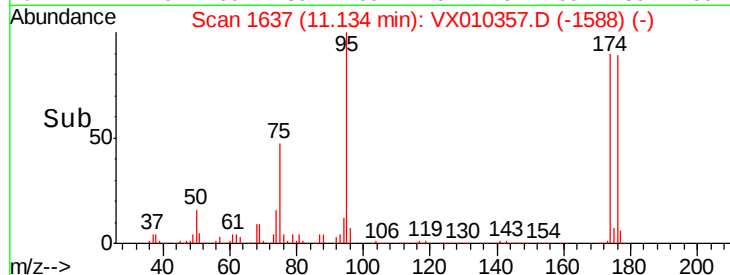
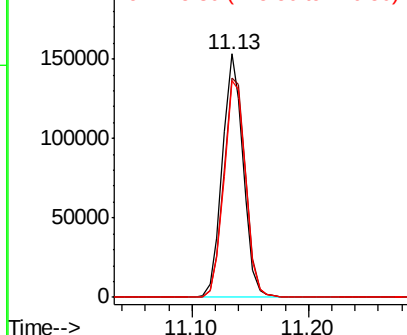
#62
4-Bromofluorobenzene
Concen: 47.243 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010357.D
Acq: 20 Jun 2019 15:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 188913
Ion Ratio Lower Upper
95 100
174 95.3 0.0 187.6
176 92.8 0.0 184.0

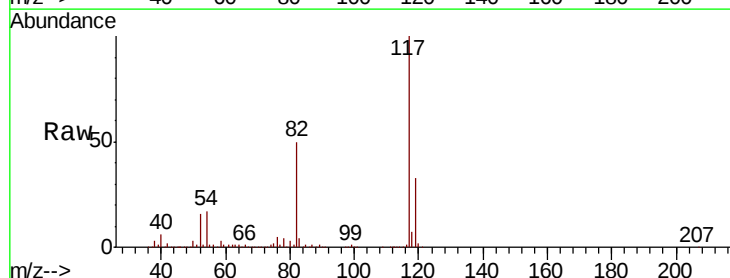


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

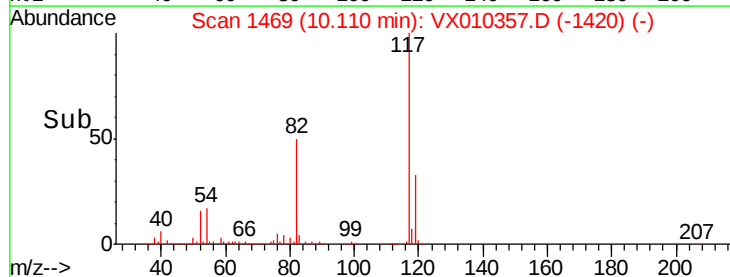
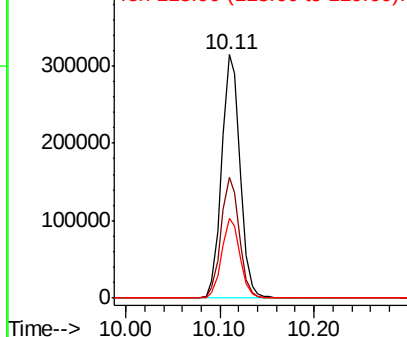


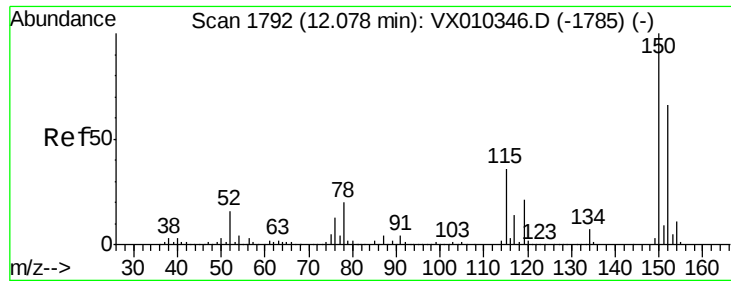
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010357.D
Acq: 20 Jun 2019 15:15

Tgt Ion: 117 Resp: 424644
Ion Ratio Lower Upper
117 100
82 49.8 41.2 61.8
119 32.6 25.5 38.3



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: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

ClientSampleId :

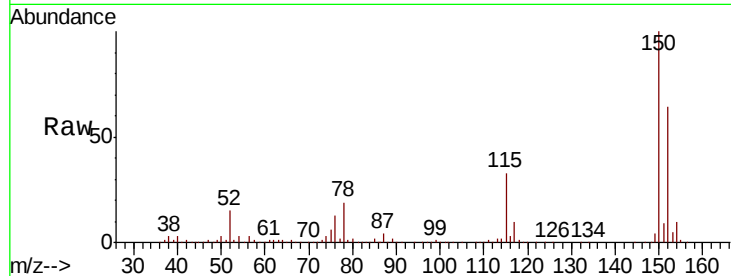
Tot Ion:152 Resp: 202955

Ion Ratio Lower Upper

152 100

115 53.4 38.6 115.7

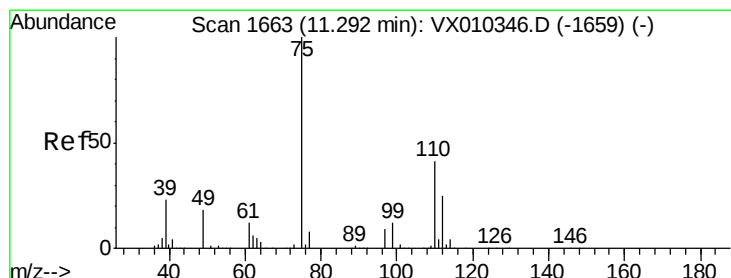
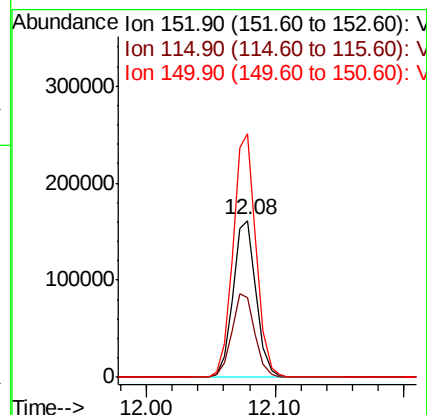
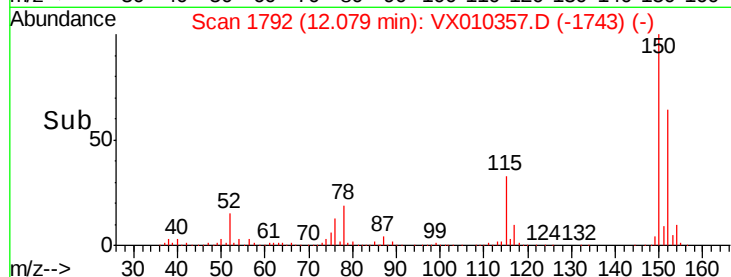
150 155.1 0.0 347.4



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: 23.776 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010357.D

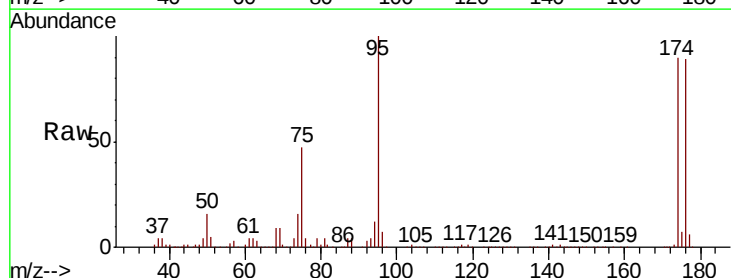
Acq: 20 Jun 2019 15:15

Tgt Ion: 75 Resp: 87934

Ion Ratio Lower Upper

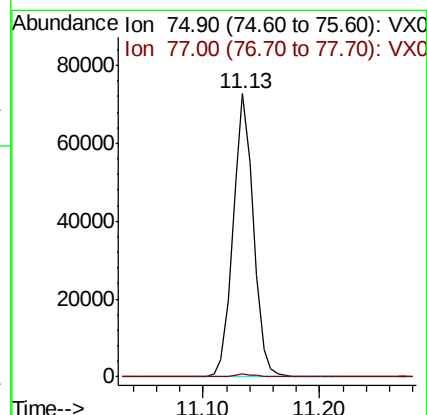
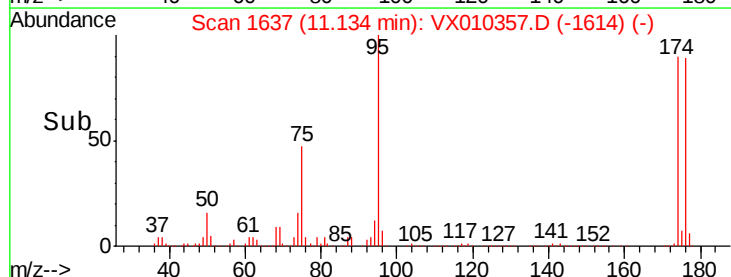
75 100

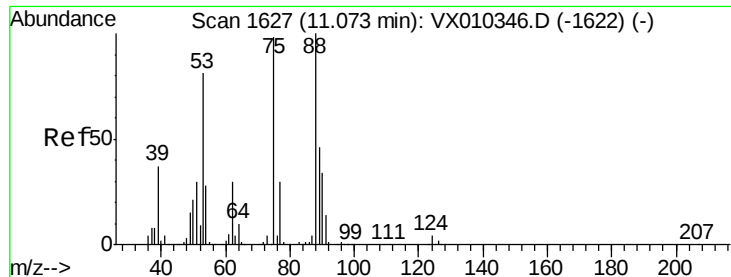
77 1.3 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.468 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Instrument :

MSVOA_X

ClientSampleId :

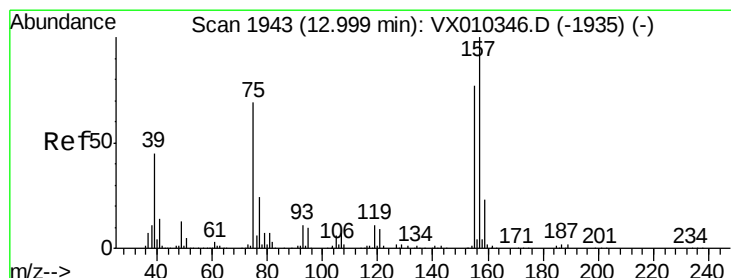
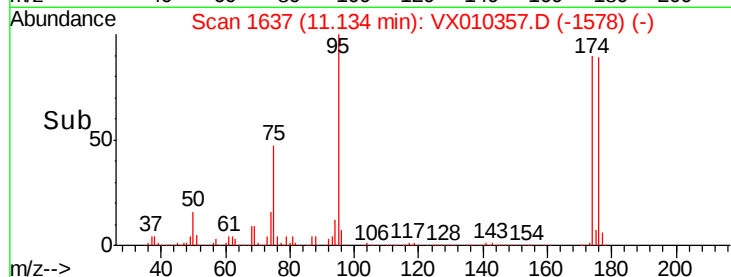
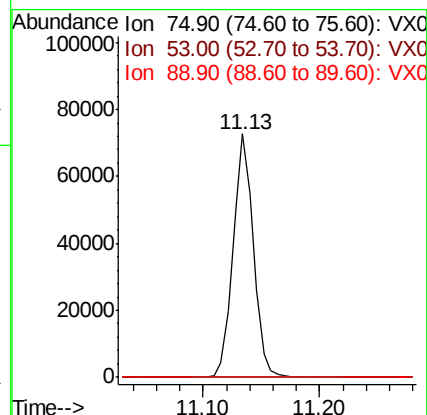
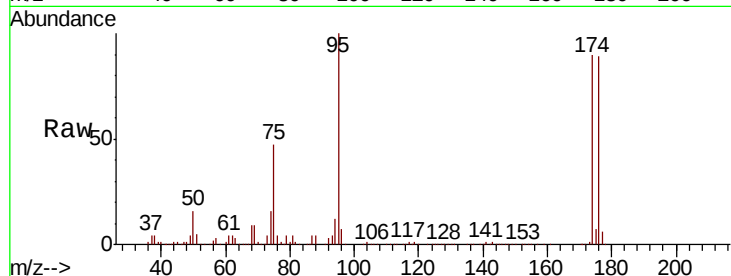
Tot Ion: 75 Resp: 87934

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.0 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.494 ug/l

RT: 12.97 min Scan# 1938

Delta R.T. -0.03 min

Lab File: VX010357.D

Acq: 20 Jun 2019 15:15

Tgt Ion: 75 Resp: 485

Ion Ratio Lower Upper

75 100

155 0.0 54.4 163.1#

157 0.0 69.5 208.3#

