

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080718\
 Data File : VF059918.D
 Acq On : 7 Aug 2018 13:02
 Operator : VA/AP
 Sample : J4283-01RE
 Misc : 6.35g/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 07 14:09:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	77761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	102846	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	91311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	51327	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	43924	31.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	62.66%		
35) Dibromofluoromethane	4.30	113	40271	39.36	ug/l	0.00
Spiked Amount 50.000			Recovery =	78.72%		
50) Toluene-d8	7.72	98	85990	39.50	ug/l	0.00
Spiked Amount 50.000			Recovery =	79.00%		
62) 4-Bromofluorobenzene	11.51	95	37369	30.54	ug/l	0.00
Spiked Amount 50.000			Recovery =	61.08%		

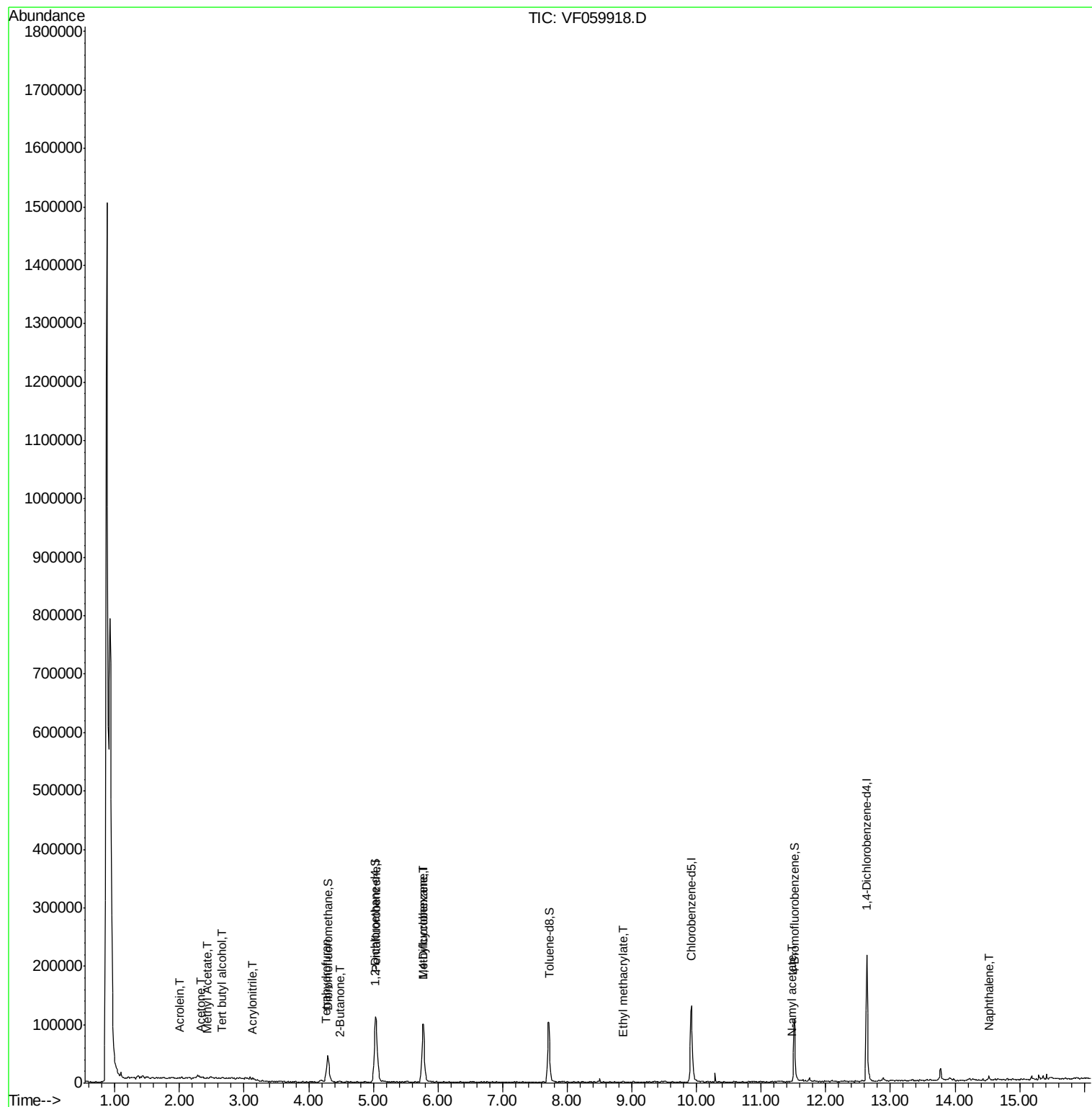
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	105	1.857	ug/l #	74
13) Acrolein	2.00	56	396	11.685	ug/l	99
15) Acrylonitrile	3.11	53	264	2.548	ug/l #	36
16) Acetone	2.33	43	2640	10.201	ug/l #	70
18) Methyl Acetate	2.43	43	843	1.931	ug/l #	56
20) Methylene Chloride	2.28	84	2308	Below Cal	#	71
25) 2-Butanone	4.48	43	462	1.642	ug/l #	60
29) Tetrahydrofuran	4.27	42	114	1.100	ug/l #	41
39) Methylcyclohexane	5.77	83	2140	2.399	ug/l #	31
40) Benzene	4.81	78	110	Below Cal	#	49
56) Ethyl methacrylate	8.86	69	143	3.582	ug/l #	20
74) N-amyl acetate	11.47	43	186	3.180	ug/l #	1
95) Naphthalene	14.53	128	2238	1.074	ug/l #	82

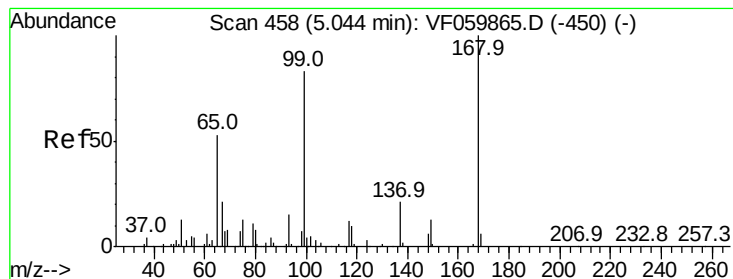
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

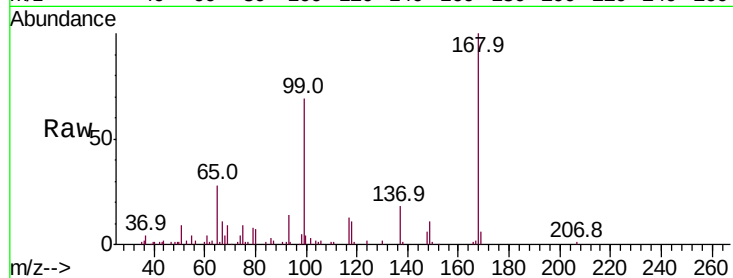
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 77761

Ion Ratio Lower Upper

168 100

99 69.3 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

30000

25000

20000

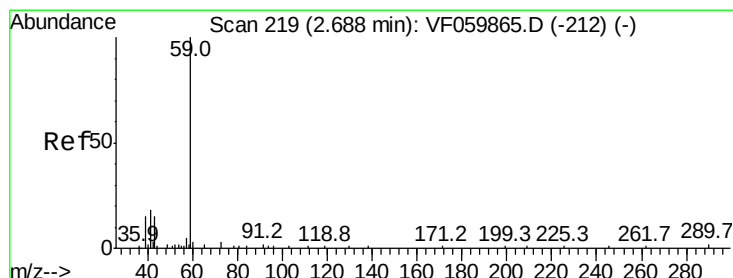
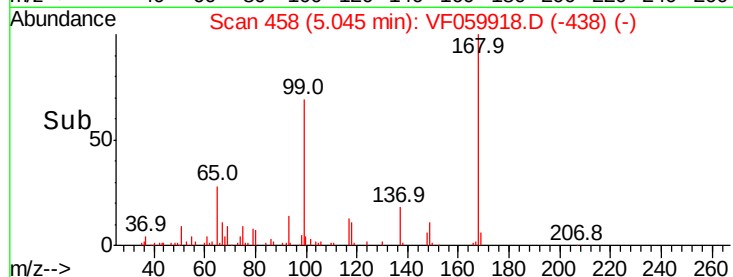
15000

10000

5000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.857 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.02 min

Lab File: VF059918.D

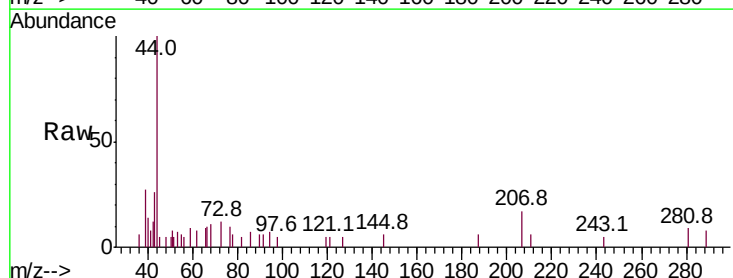
Acq: 7 Aug 2018 13:02

Tgt Ion: 59 Resp: 105

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

200

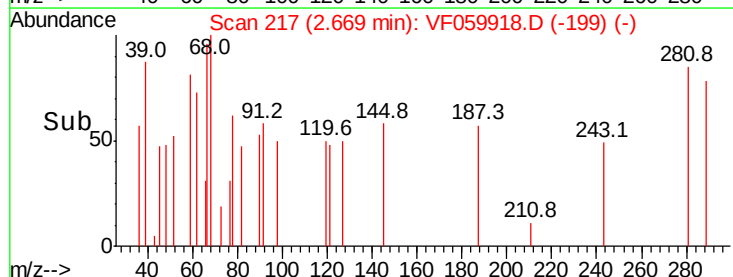
150

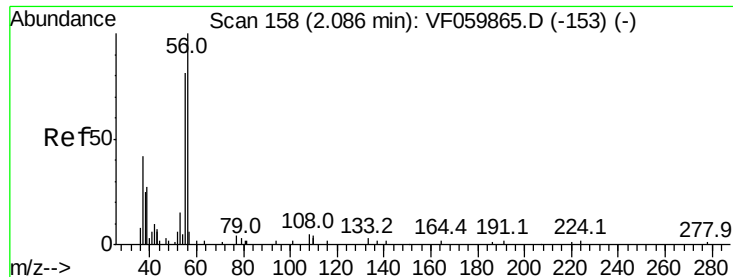
100

50

0

Time-->





#13

Acrolein

Concen: 11.685 ug/l

RT: 2.00 min Scan# 149

Delta R.T. -0.09 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

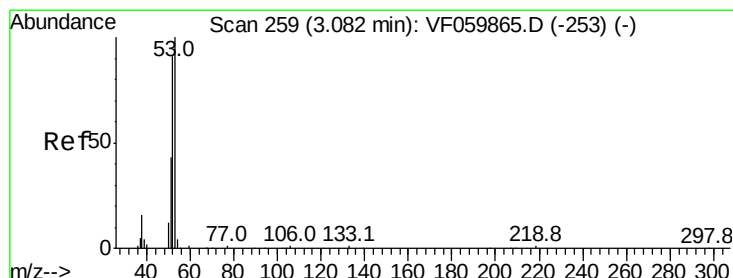
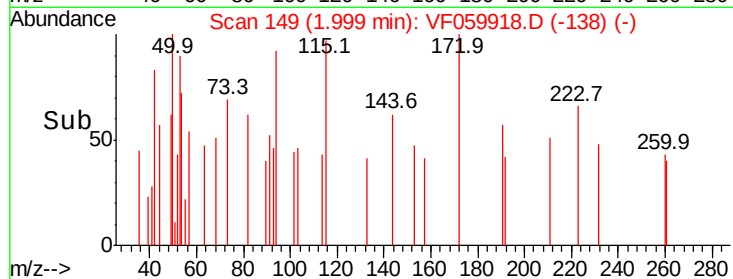
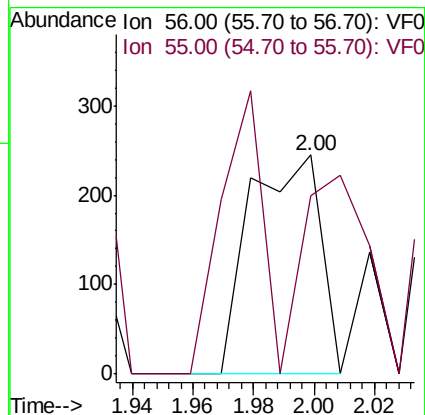
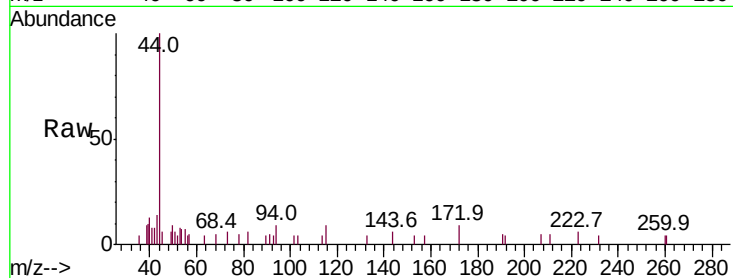
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 396

Ion Ratio Lower Upper

56 100

55 81.2 64.6 96.8



#15

Acrylonitrile

Concen: 2.548 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

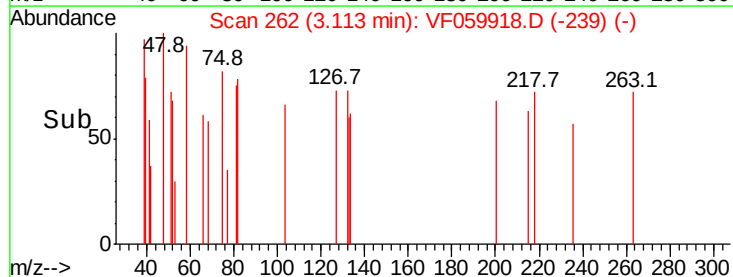
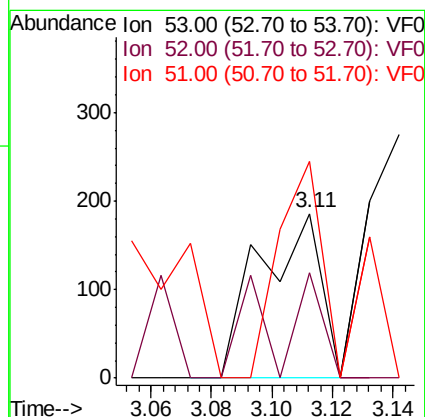
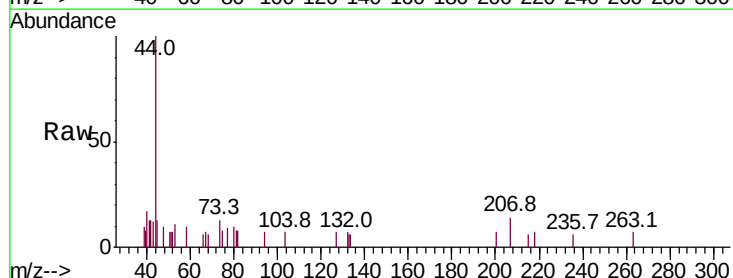
Tgt Ion: 53 Resp: 264

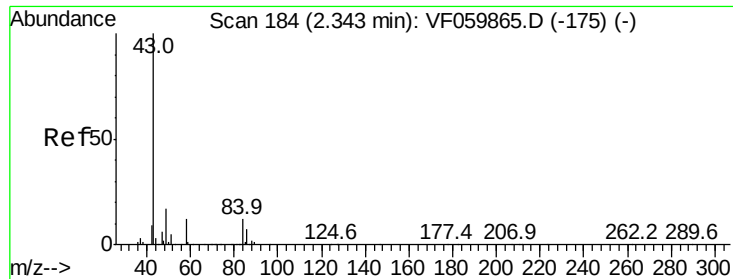
Ion Ratio Lower Upper

53 100

52 64.0 72.9 109.3#

51 131.7 34.5 51.7#





#16

Acetone

Concen: 10.201 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

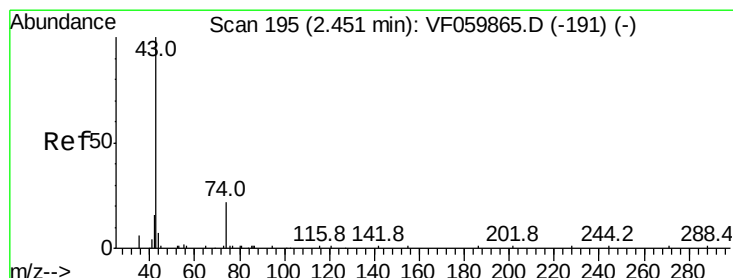
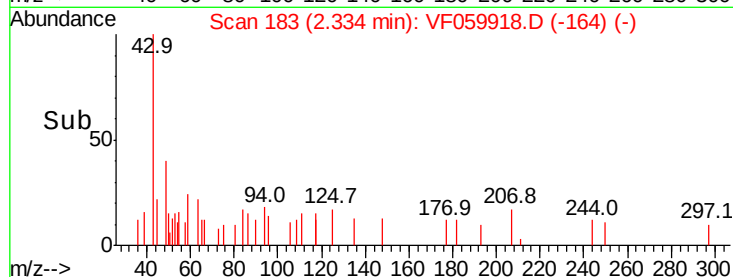
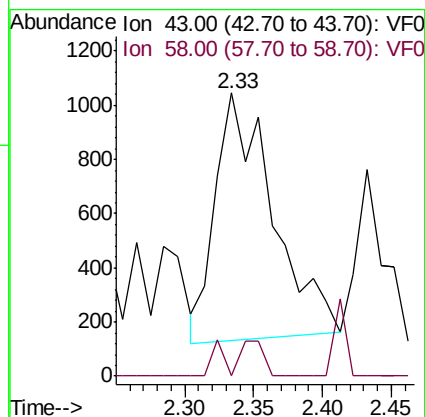
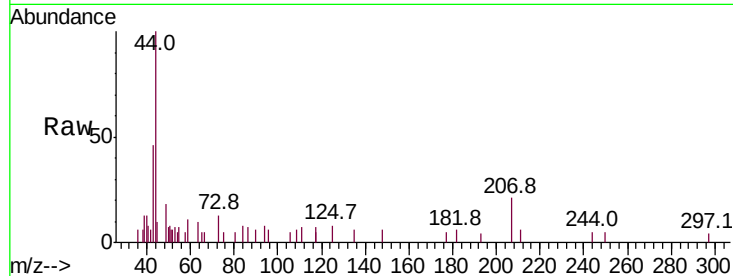
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2640

Ion Ratio Lower Upper

43 100

58 0.0 9.4 14.0#



#18

Methyl Acetate

Concen: 1.931 ug/l

RT: 2.43 min Scan# 193

Delta R.T. -0.02 min

Lab File: VF059918.D

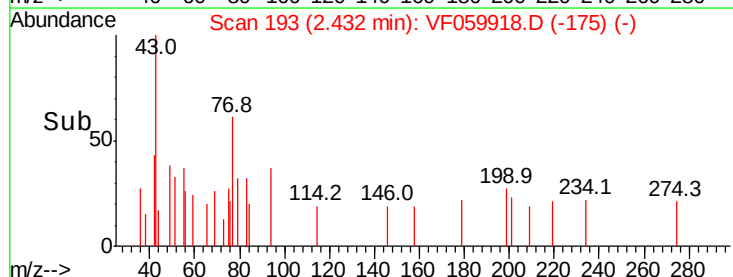
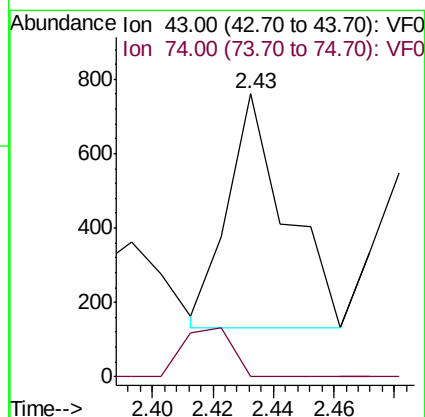
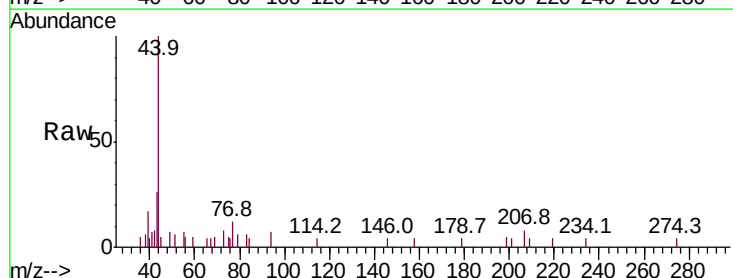
Acq: 7 Aug 2018 13:02

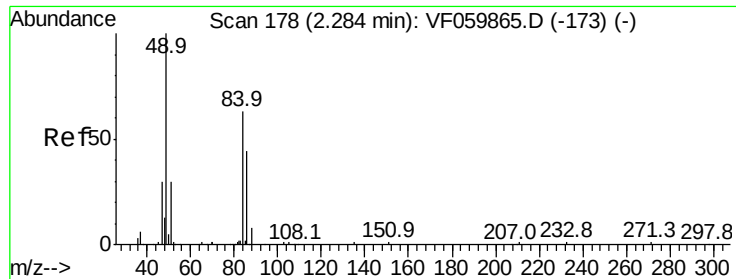
Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#

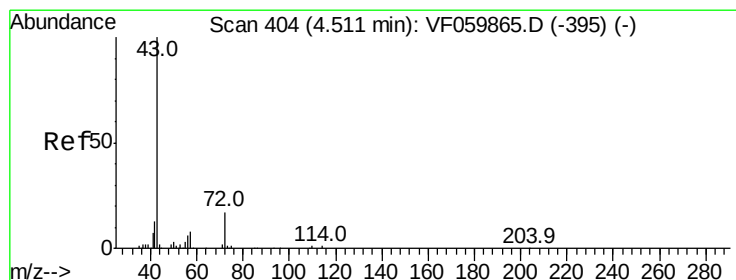
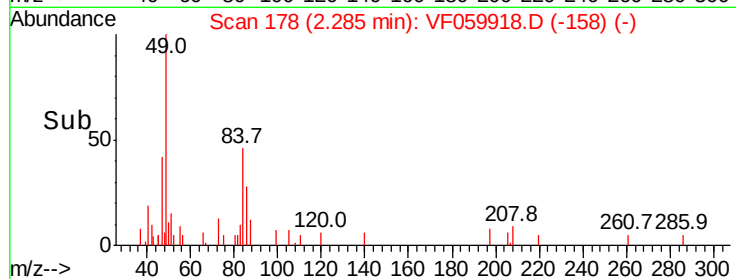
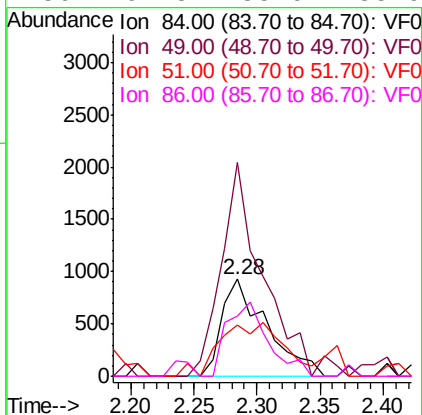
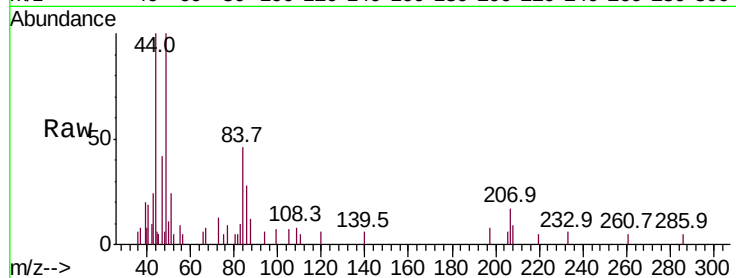




#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

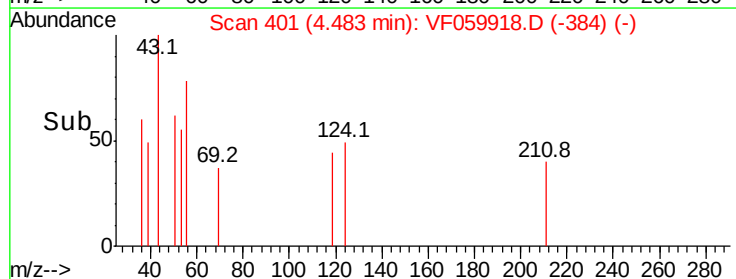
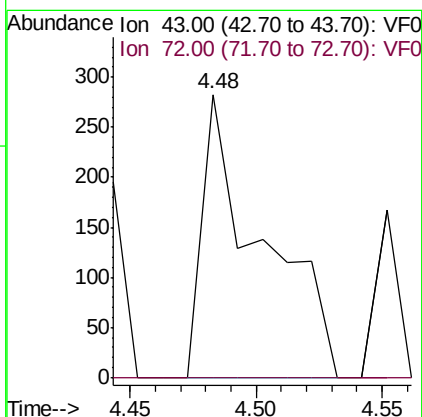
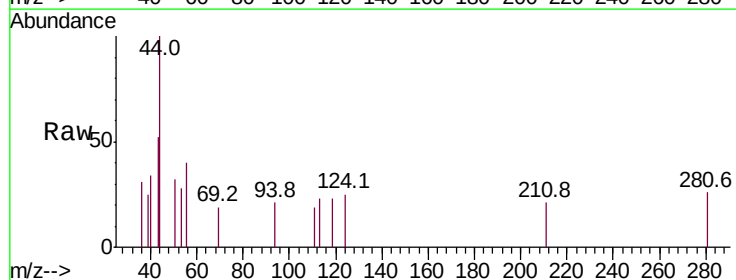
Instrument :
MSVOA_F
ClientSampleId :

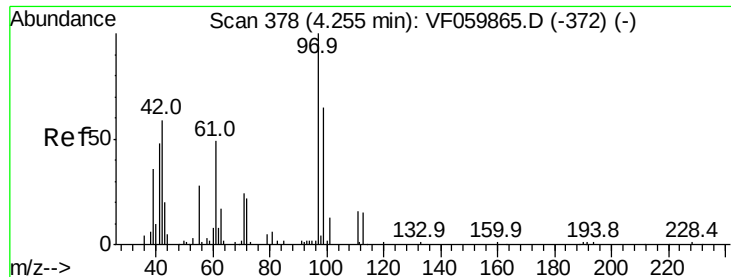
Tot Ion: 84 Resp: 2308
Ion Ratio Lower Upper
84 100
49 219.6 128.7 193.1#
51 53.1 39.3 58.9
86 62.3 55.9 83.9



#25
2-Butanone
Concen: 1.642 ug/l
RT: 4.48 min Scan# 401
Delta R.T. -0.03 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Tgt Ion: 43 Resp: 462
Ion Ratio Lower Upper
43 100
72 0.0 13.9 20.9#

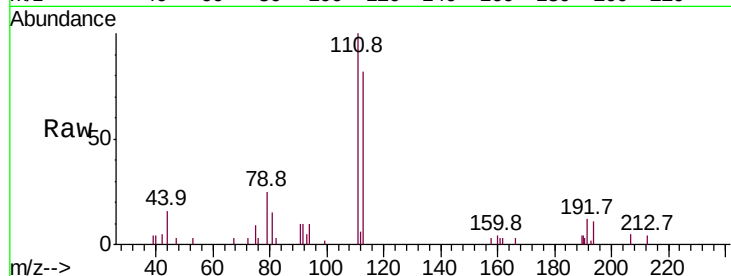




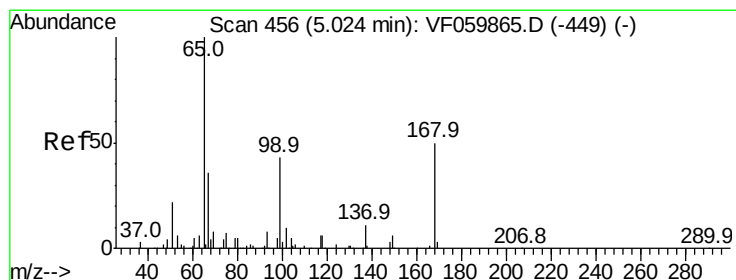
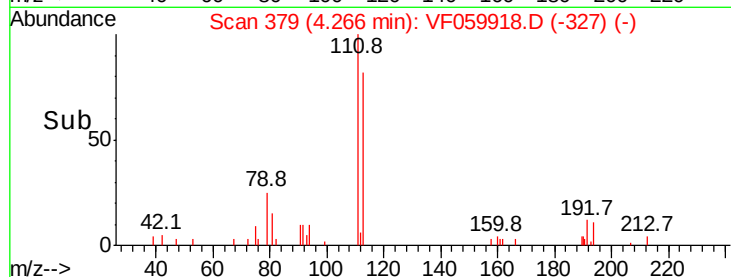
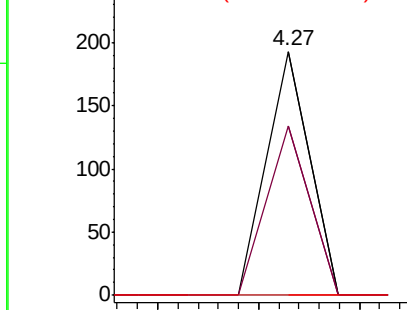
#29
Tetrahydrofuran
Concen: 1.100 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
42	100		
72	69.3	29.3	43.9#
71	0.0	30.0	45.0#

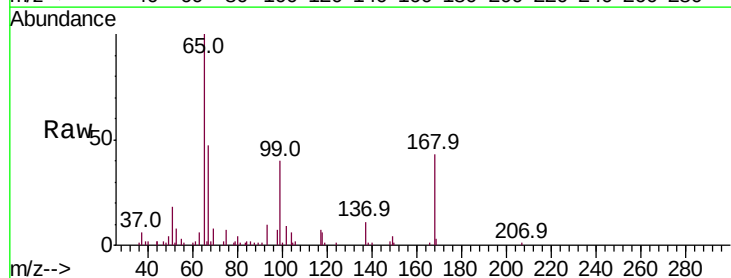


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

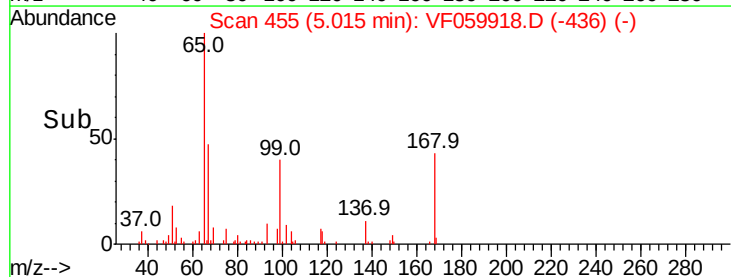
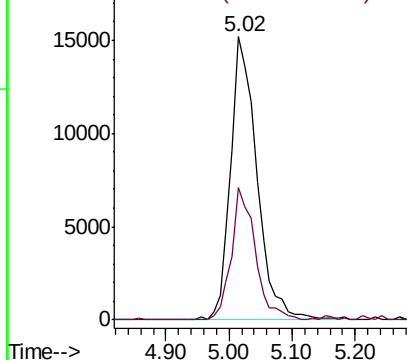


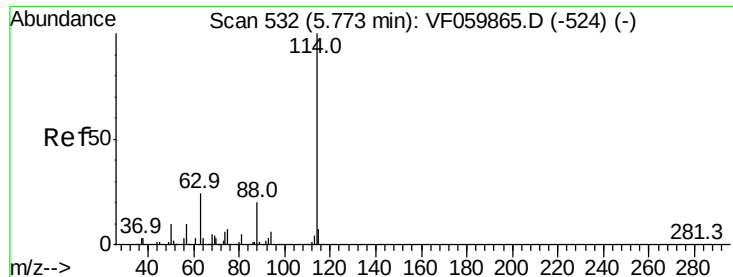
#33
1,2-Dichloroethane-d4
Concen: 31.332 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.01 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	46.6	0.0	77.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

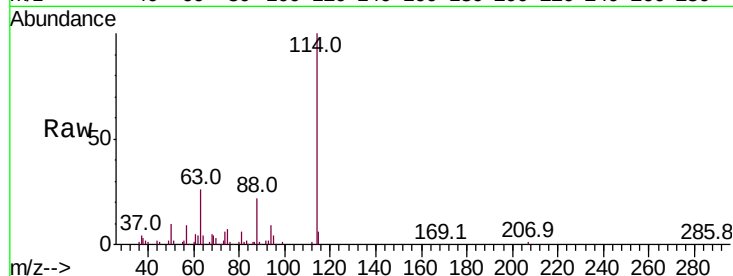




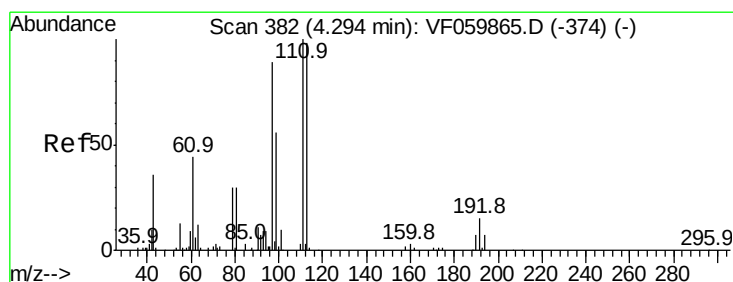
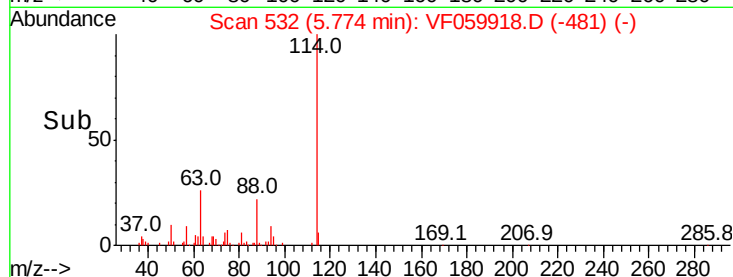
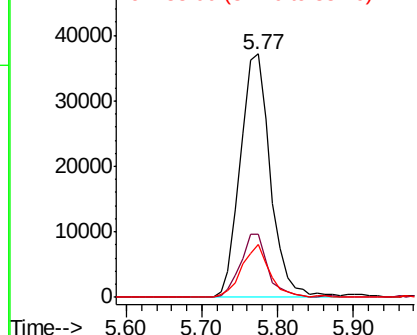
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.77 min Scan# 532
Delta R.T. 0.00 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114 Resp: 102846
Ion Ratio Lower Upper
114 100
63 25.7 0.0 48.0
88 21.8 0.0 39.4

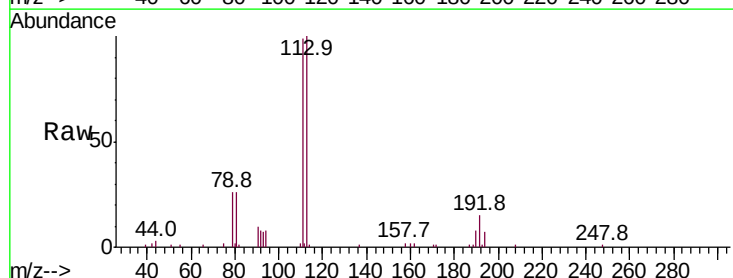


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

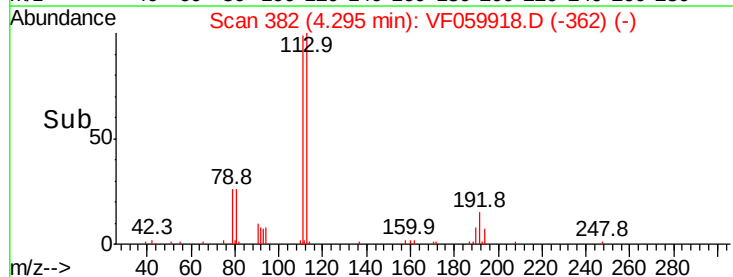
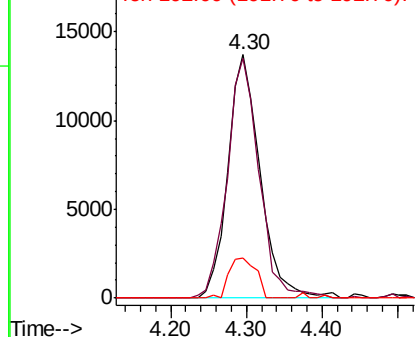


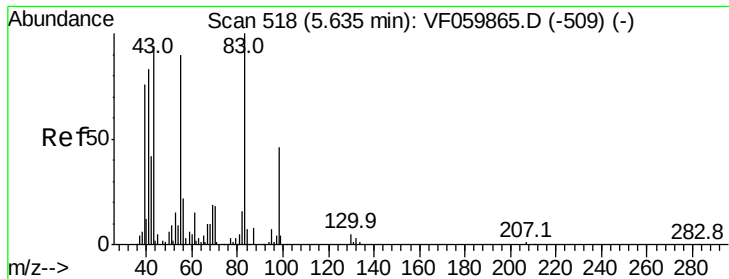
#35
Dibromofluoromethane
Concen: 39.355 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Tgt Ion:113 Resp: 40271
Ion Ratio Lower Upper
113 100
111 101.2 81.8 122.8
192 16.4 12.4 18.6



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

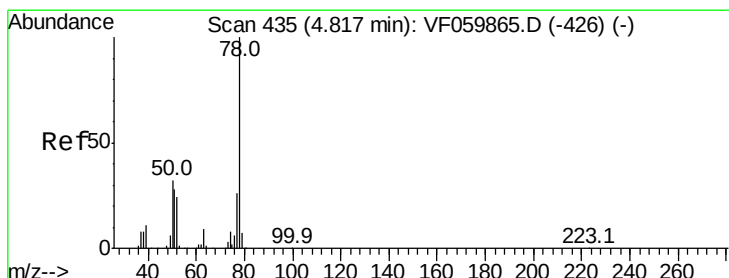
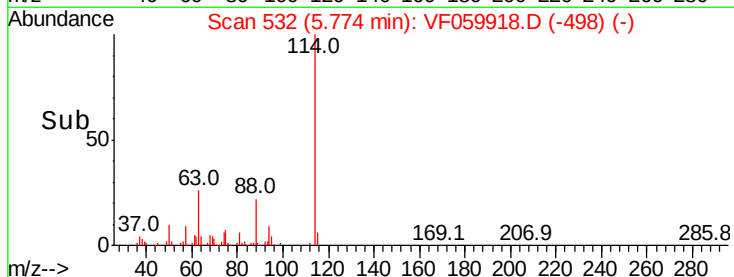
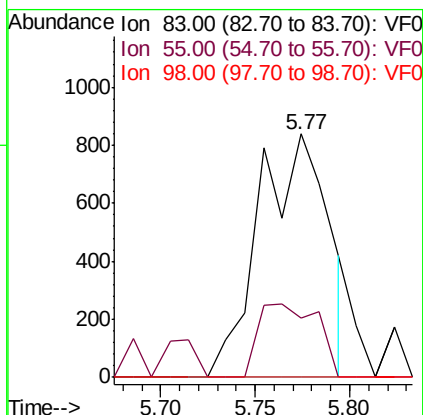
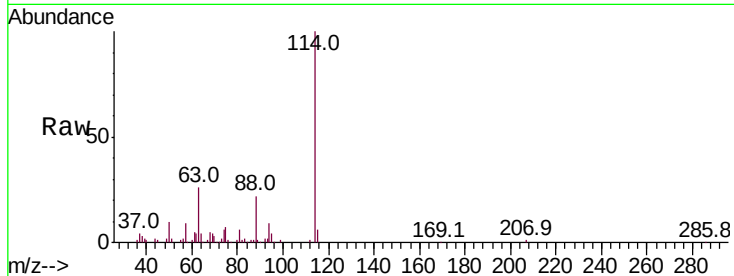




#39
Methylcyclohexane
Concen: 2.399 ug/l
RT: 5.77 min Scan# 532
Delta R.T. 0.14 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

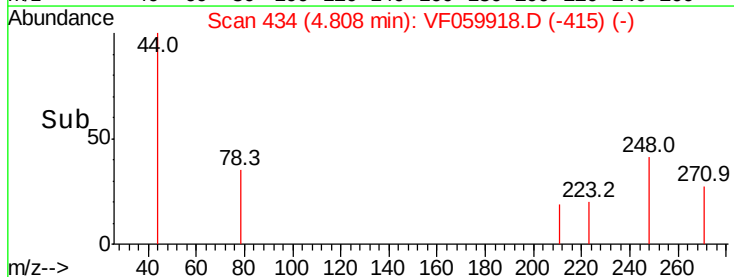
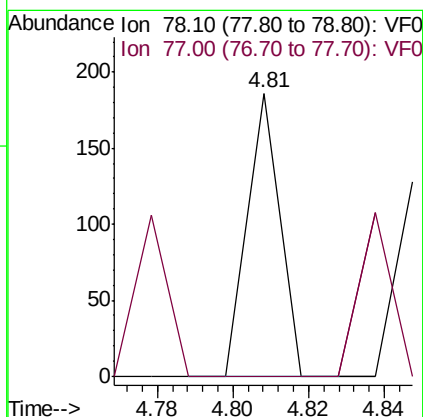
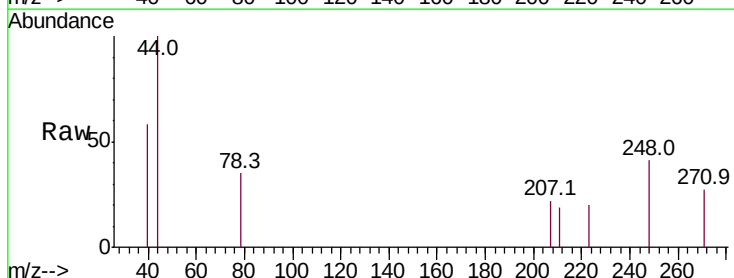
Instrument :
MSVOA_F
ClientSampled :

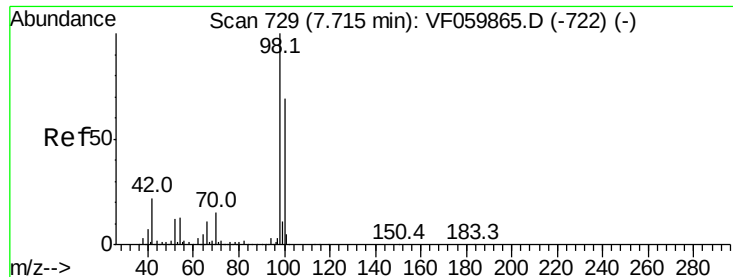
Tot Ion: 83 Resp: 2140
Ion Ratio Lower Upper
83 100
55 24.6 72.0 108.0#
98 0.0 36.6 54.8#



#40
Benzene
Concen: Below Cal
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Tgt Ion: 78 Resp: 110
Ion Ratio Lower Upper
78 100
77 0.0 20.7 31.1#

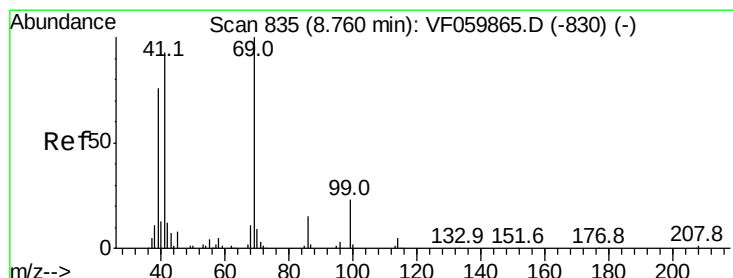
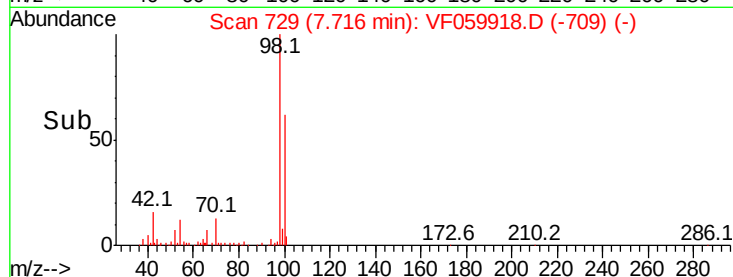
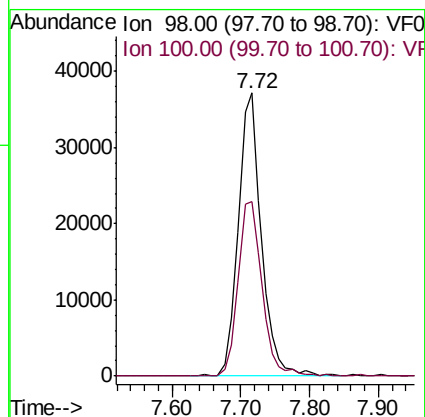
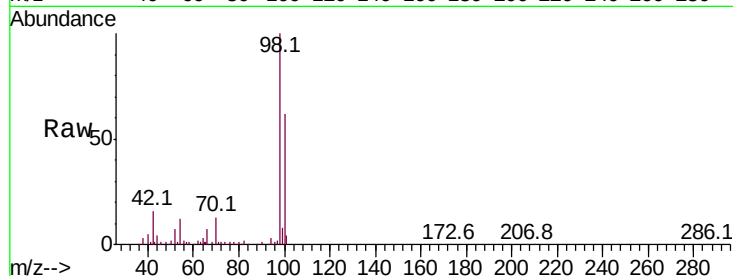




#50
Toluene-d8
Concen: 39.495 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

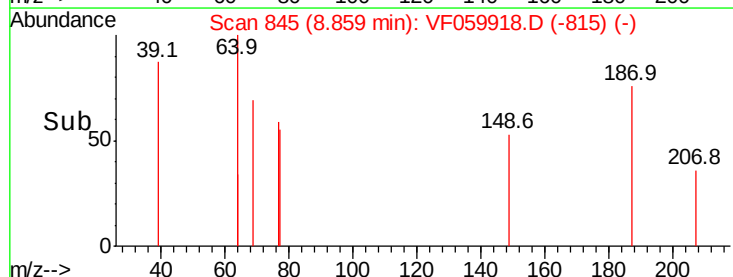
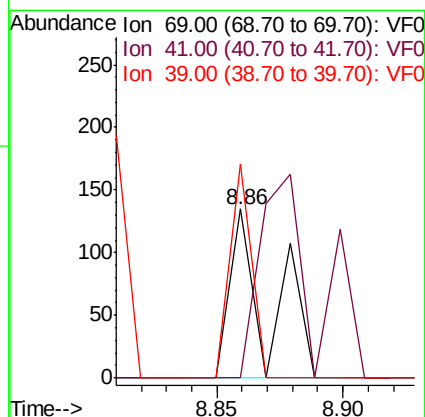
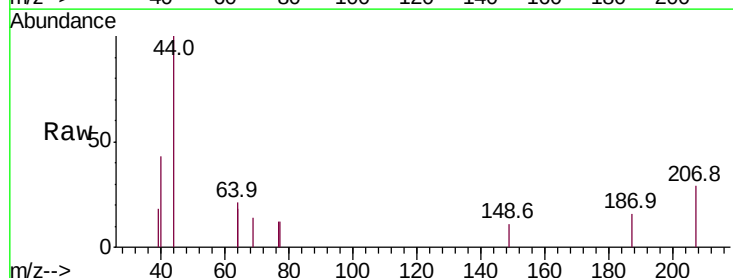
Instrument :
MSVOA_F
ClientSampleId :

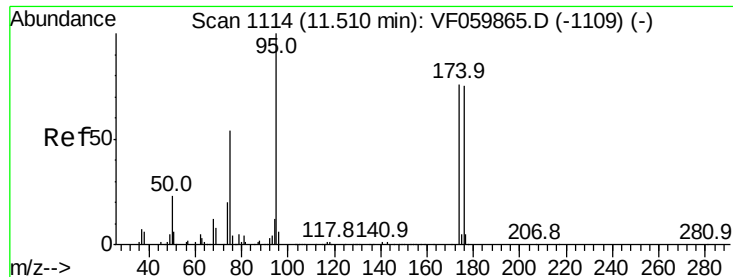
Tot Ion: 98 Resp: 85990
Ion Ratio Lower Upper
98 100
100 61.5 55.0 82.6



#56
Ethyl methacrylate
Concen: 3.582 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.10 min
Lab File: VF059918.D
Acq: 7 Aug 2018 13:02

Tgt Ion: 69 Resp: 143
Ion Ratio Lower Upper
69 100
41 0.0 74.7 112.1#
39 126.7 61.1 91.7#





#62

4-Bromofluorobenzene

Concen: 30.544 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

Instrument :

MSVOA_F

ClientSampled :

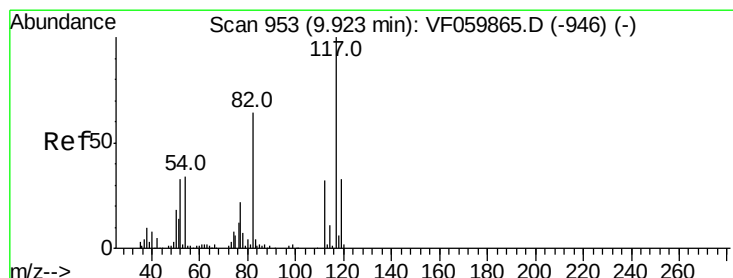
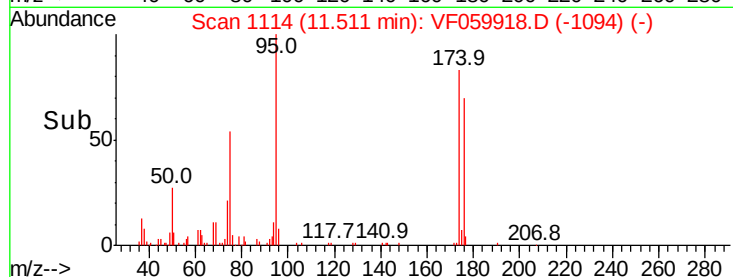
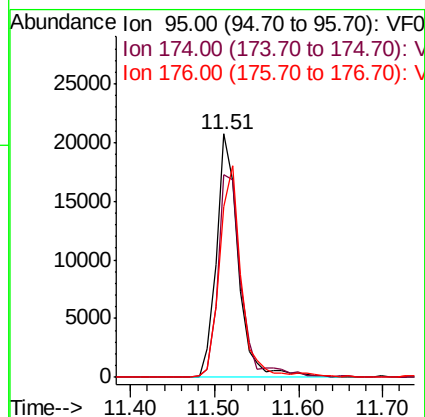
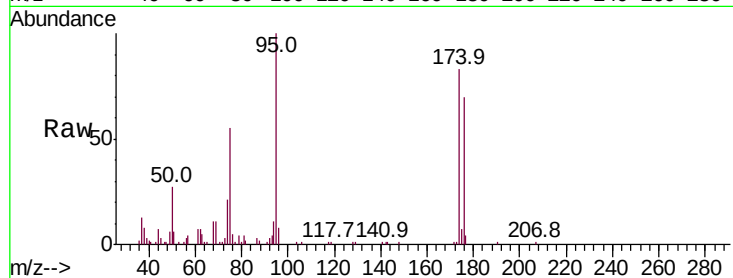
Tot Ion: 95 Resp: 37369

Ion Ratio Lower Upper

95 100

174 83.2 0.0 151.6

176 70.2 0.0 149.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

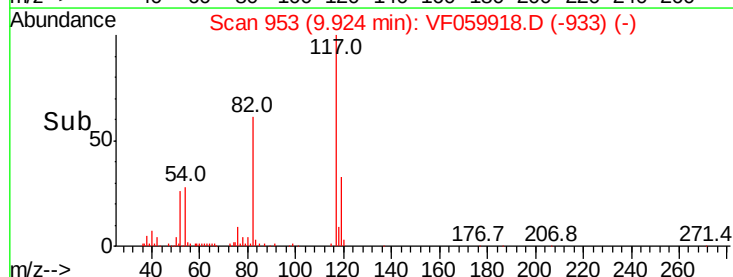
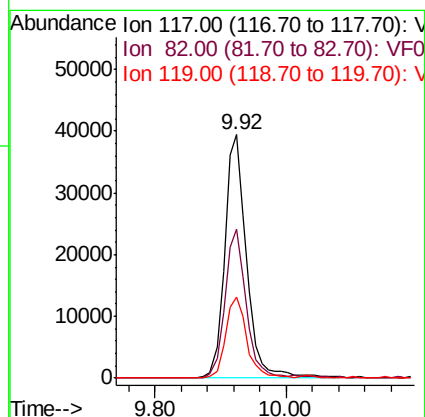
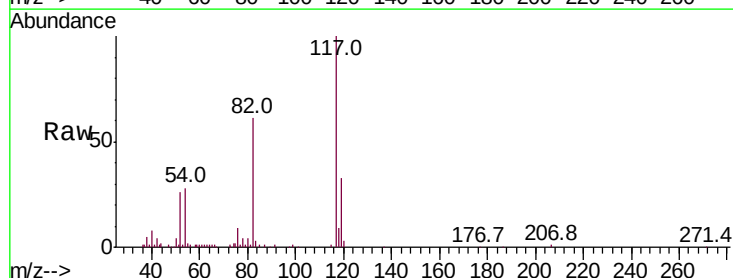
Tgt Ion: 117 Resp: 91311

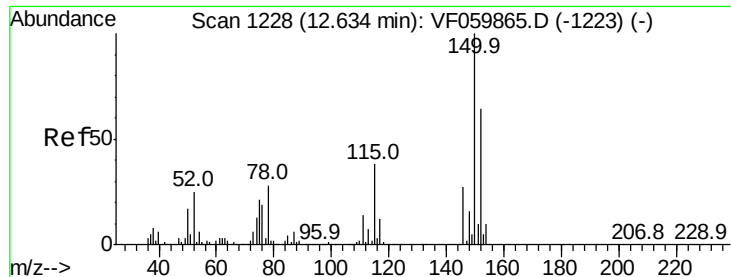
Ion Ratio Lower Upper

117 100

82 61.1 51.3 76.9

119 33.3 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

Instrument :

MSVOA_F

ClientSampleId :

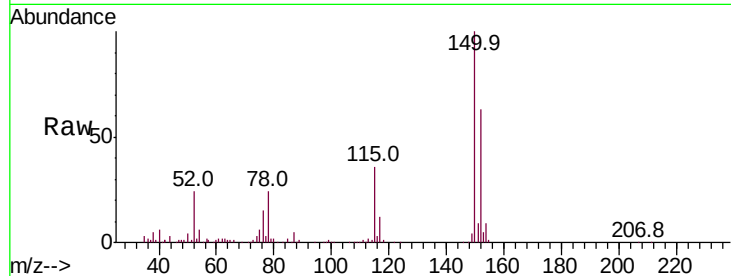
Tot Ion:152 Resp: 51327

Ion Ratio Lower Upper

152 100

115 58.1 29.8 89.4

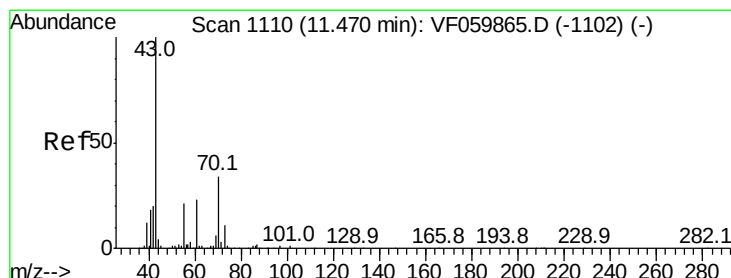
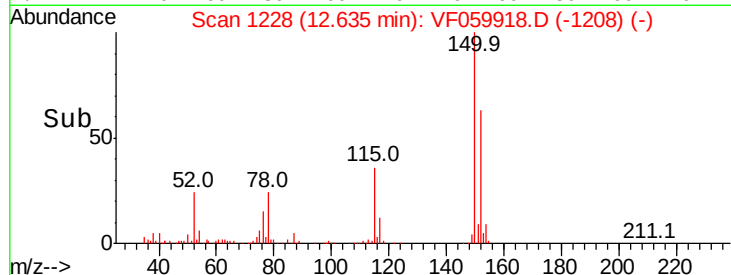
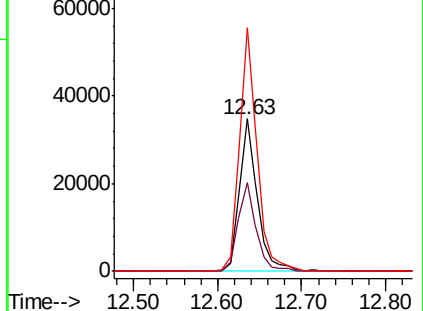
150 159.6 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-amil acetate

Concen: 3.180 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

Tgt Ion: 43 Resp: 186

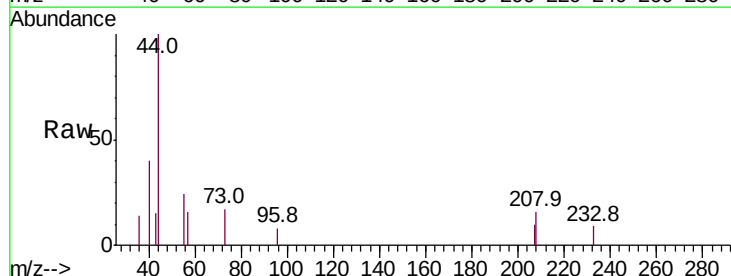
Ion Ratio Lower Upper

43 100

70 0.0 27.5 41.3#

55 154.1 16.6 25.0#

61 0.0 18.2 27.4#

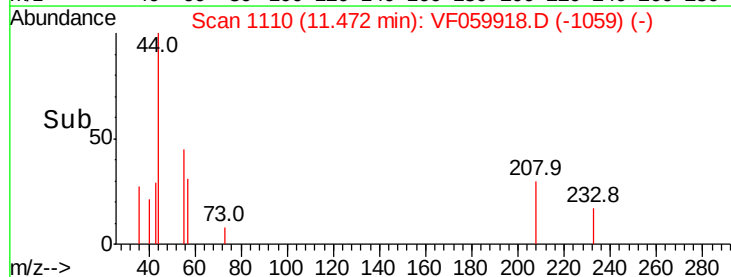
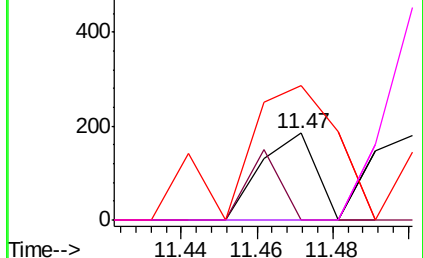


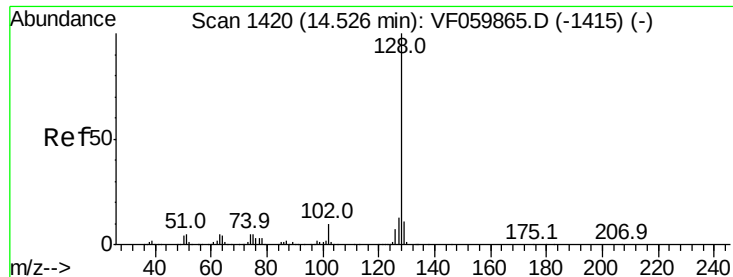
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#95

Naphthalene

Concen: 1.074 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. 0.00 min

Lab File: VF059918.D

Acq: 7 Aug 2018 13:02

Instrument :

MSVOA_F

ClientSampleId :

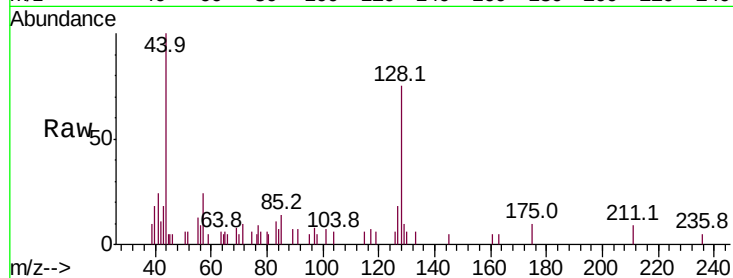
Tot Ion:128 Resp: 2238

Ion Ratio Lower Upper

128 100

127 24.1 10.4 15.6#

129 13.7 9.0 13.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

