

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059397.D
 Acq On : 2 Jul 2018 19:55
 Operator : VA/AP
 Sample : J3802-03RE
 Misc : 6.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-3(10.0)

Quant Time: Jul 03 01:11:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	226710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	350521	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	290358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	179712	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	148175	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	4.27	113	146840	57.33	ug/l	0.00
Spiked Amount			Recovery	=	114.66%	
50) Toluene-d8	7.69	98	287861	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	
62) 4-Bromofluorobenzene	11.50	95	184723	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	

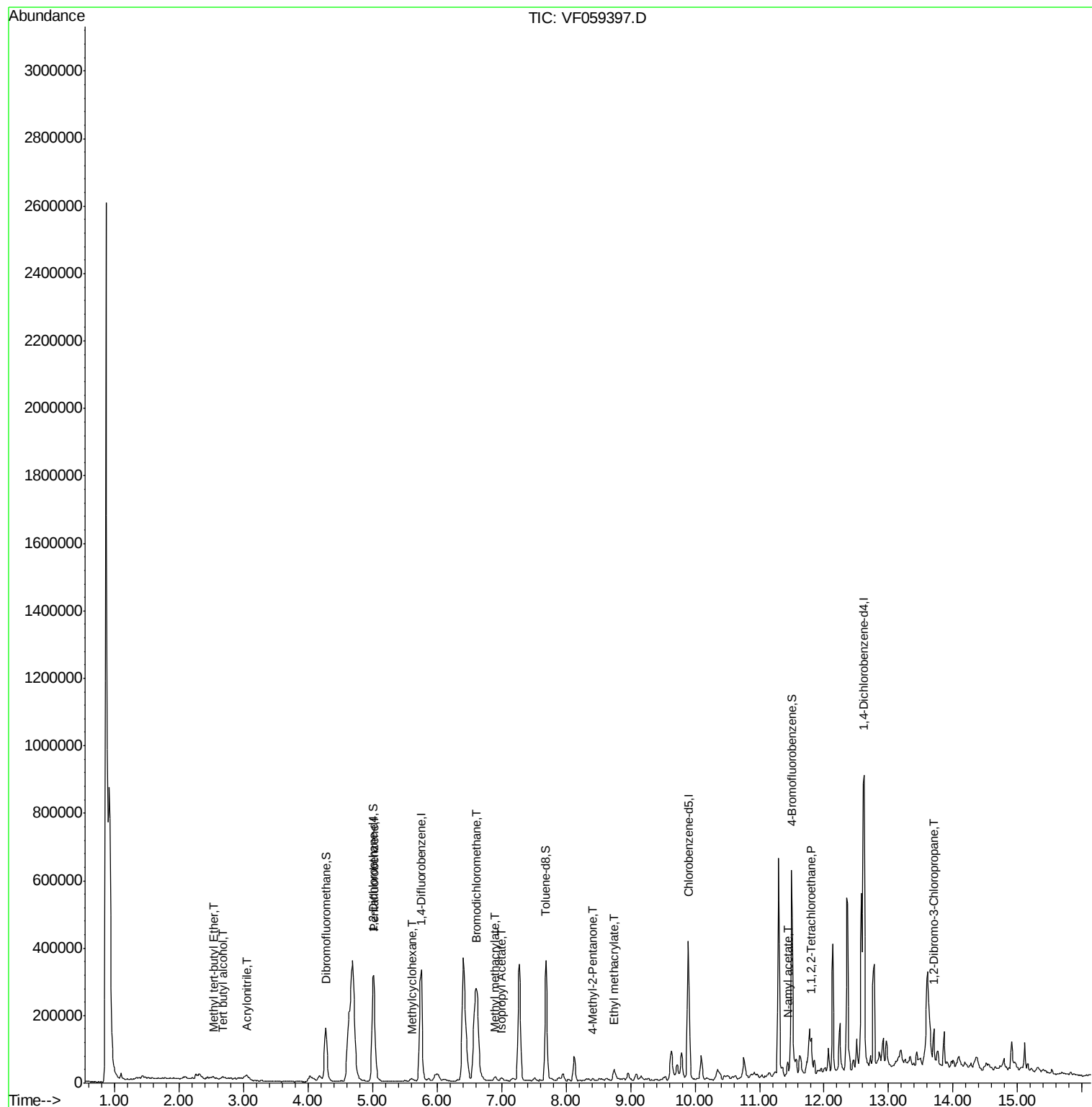
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	552	Below Cal	#	4
11) Tert butyl alcohol	2.68	59	8877	45.52	ug/l	# 72
13) Acrolein	2.07	56	335	Below Cal	#	11
15) Acrylonitrile	3.04	53	819	2.39	ug/l	# 51
16) Acetone	2.33	43	3420	Below Cal		99
19) Methyl tert-butyl Ether	2.54	73	5390	1.08	ug/l	# 70
20) Methylene Chloride	2.27	84	5160	Below Cal	#	88
25) 2-Butanone	4.50	43	2325	Below Cal	#	59
28) Bromochloromethane	3.97	49	62	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	1782	Below Cal	#	41
37) Ethyl Acetate	4.32	43	374	Below Cal	#	57
39) Methylcyclohexane	5.62	83	4935	1.82	ug/l	# 81
43) Isopropyl Acetate	7.00	43	7744	3.04	ug/l	# 52
47) Bromodichloromethane	6.62	83	4284	1.05	ug/l	# 1
48) Methyl methacrylate	6.89	41	5820	3.40	ug/l	# 43
49) 1,4-Dioxane	7.00	88	72	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.40	43	5280	2.79	ug/l	# 60
56) Ethyl methacrylate	8.75	69	12798	5.24	ug/l	# 88
59) 2-Hexanone	9.63	43	20212	Below Cal	#	44
74) N-amyl acetate	11.44	43	7061	1.86	ug/l	# 46
75) 1,1,2,2-Tetrachloroethane	11.80	83	2963	1.12	ug/l	# 15
87) 1,3-Dichlorobenzene	12.55	146	445	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.69	75	797	1.36	ug/l	# 1

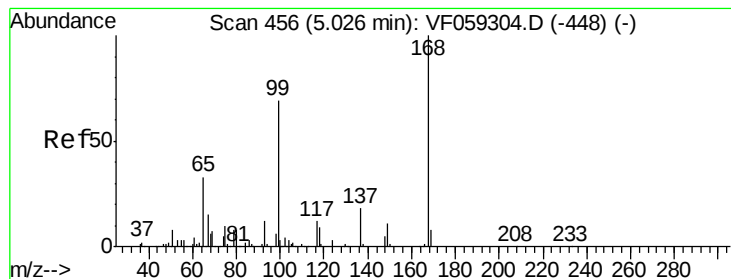
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

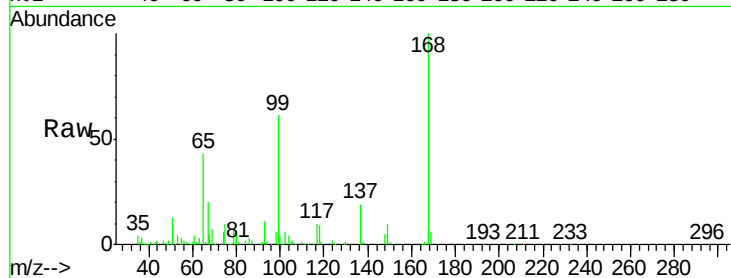
CF-3(10.0)

Tot Ion:168 Resp: 226710

Ion Ratio Lower Upper

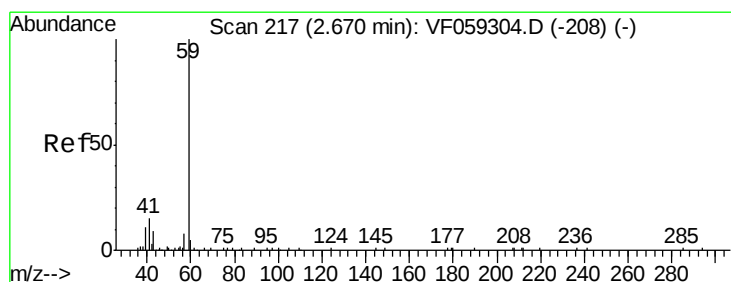
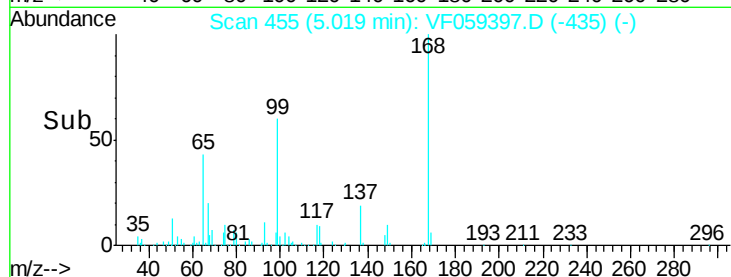
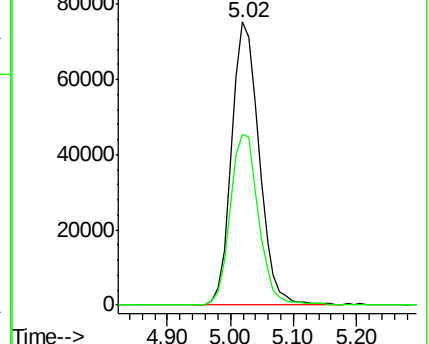
168 100

99 60.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 45.52 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059397.D

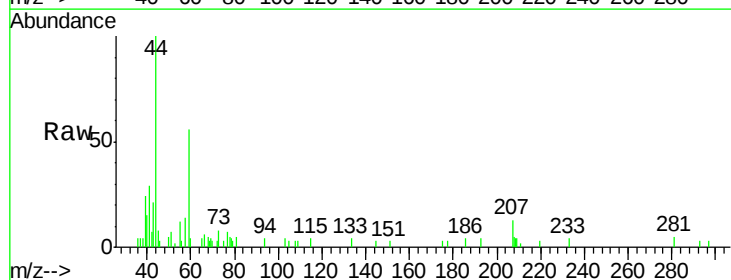
Acq: 2 Jul 2018 19:55

Tgt Ion: 59 Resp: 8877

Ion Ratio Lower Upper

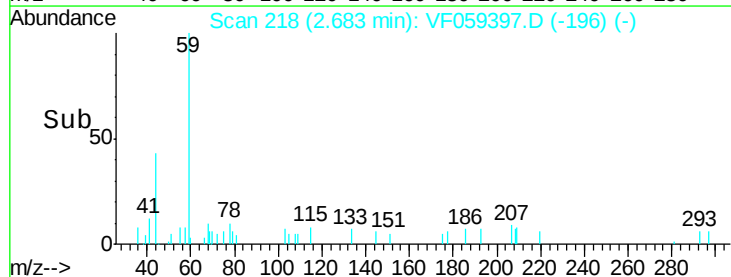
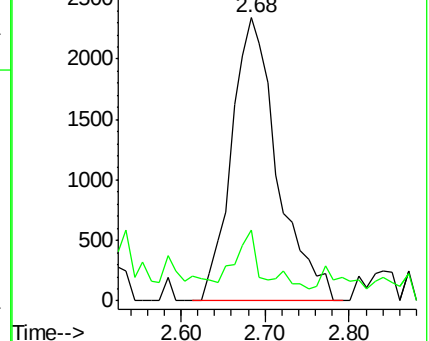
59 100

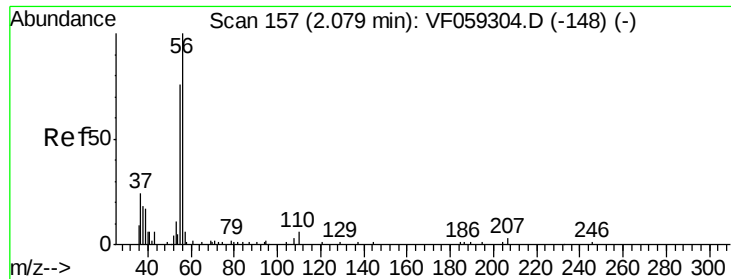
57 25.2 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

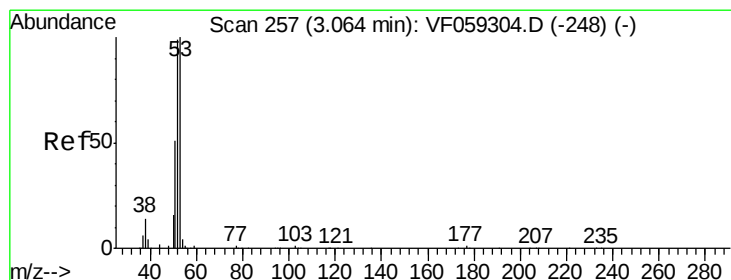
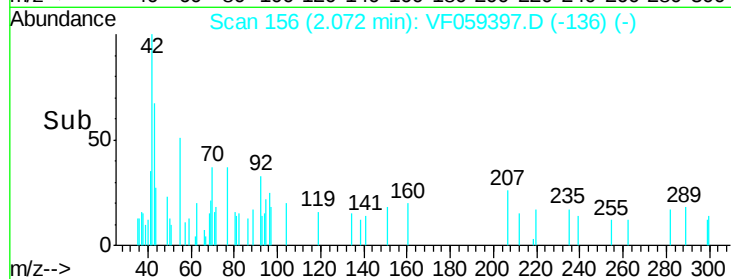
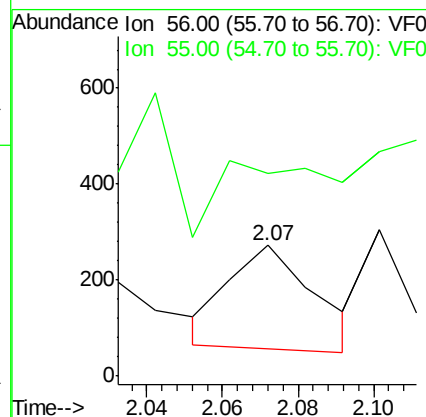
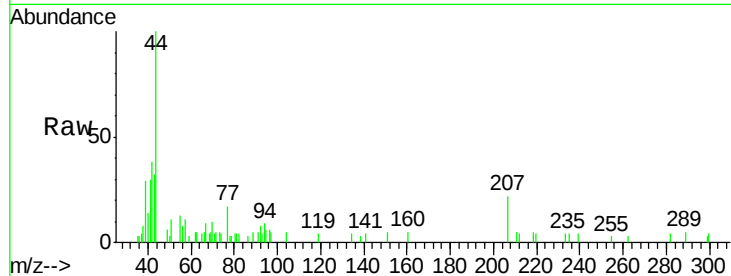




#13
Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

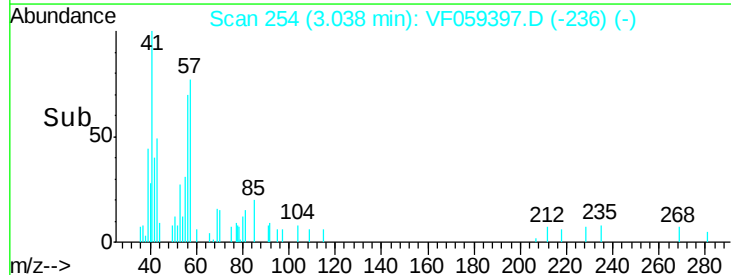
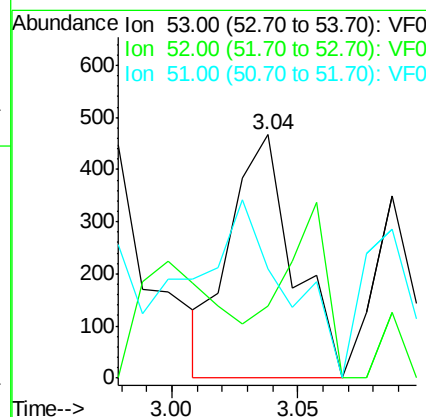
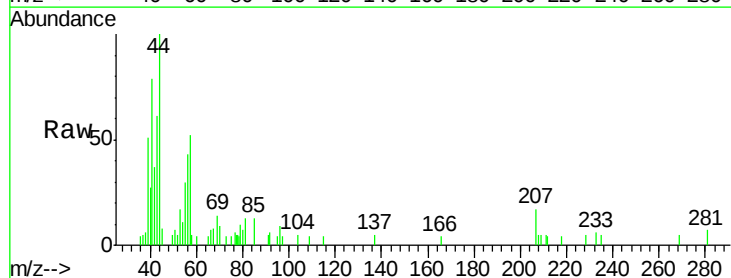
Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

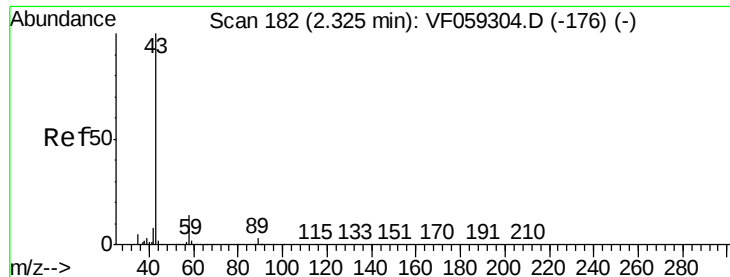
Tot Ion: 56 Resp: 335
Ion Ratio Lower Upper
56 100
55 155.1 62.4 93.6#



#15
Acrylonitrile
Concen: 2.39 ug/l
RT: 3.04 min Scan# 254
Delta R.T. -0.03 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

Tgt Ion: 53 Resp: 819
Ion Ratio Lower Upper
53 100
52 29.8 79.2 118.8#
51 45.0 40.9 61.3

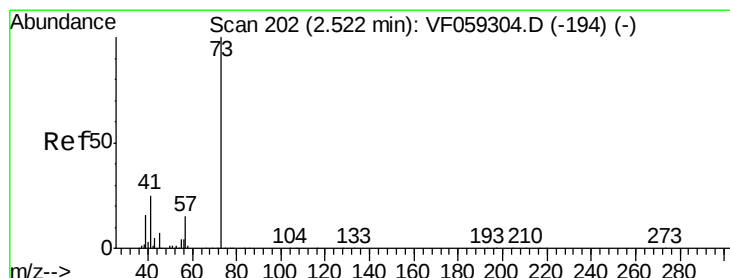
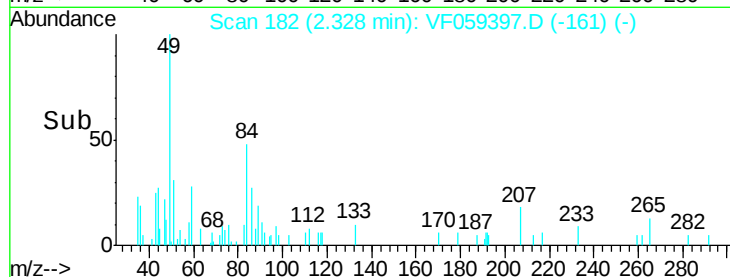
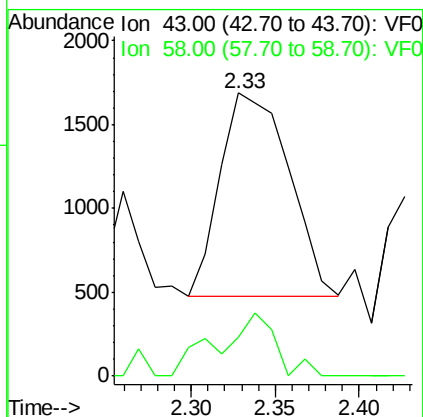
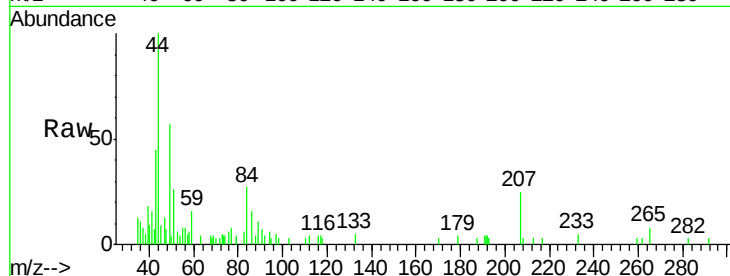




#16
Acetone
Concen: Below Cal
RT: 2.33 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

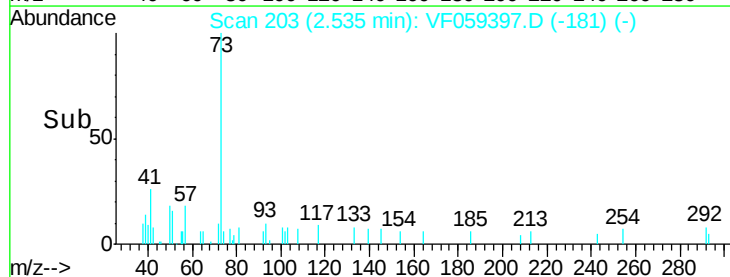
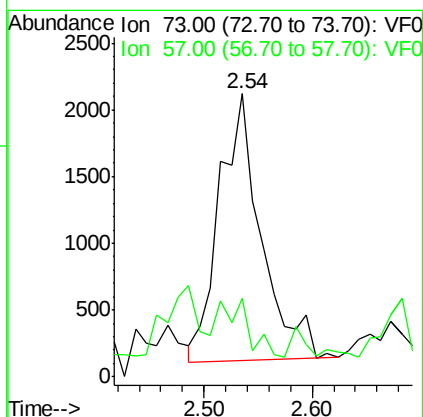
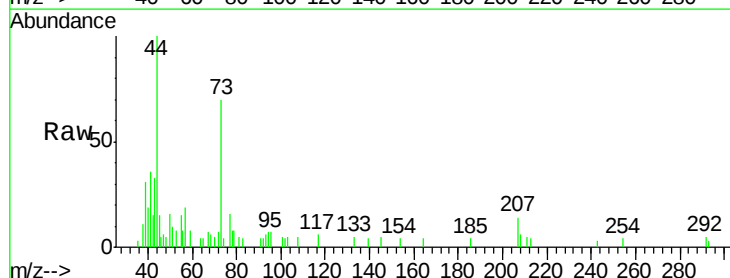
Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

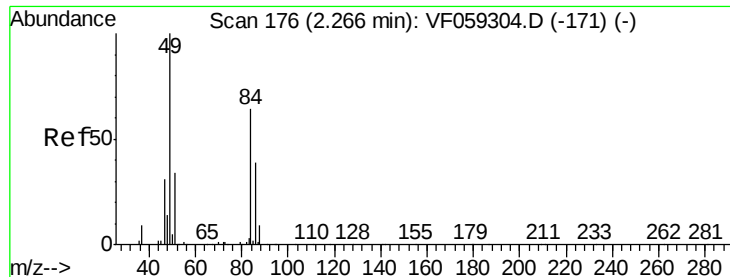
Tot Ion: 43 Resp: 3420
Ion Ratio Lower Upper
43 100
58 13.8 11.4 17.0



#19
Methyl tert-butyl Ether
Concen: 1.08 ug/l
RT: 2.54 min Scan# 203
Delta R.T. 0.01 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

Tgt Ion: 73 Resp: 5390
Ion Ratio Lower Upper
73 100
57 27.8 12.3 18.5#

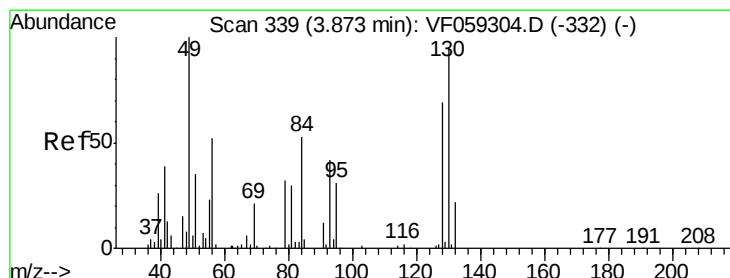
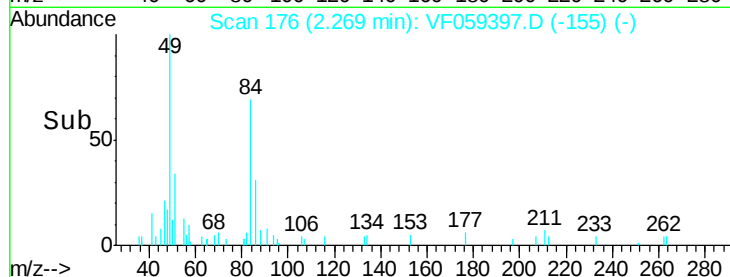
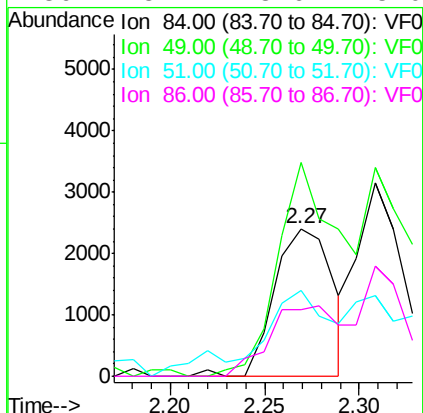
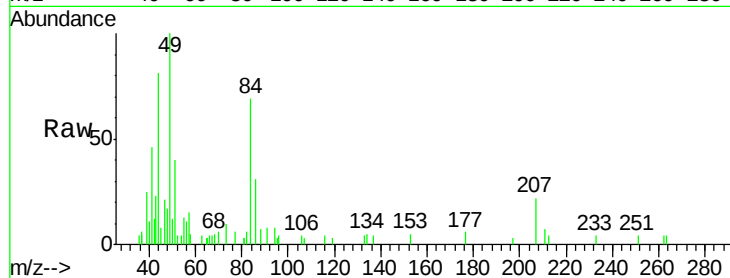




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

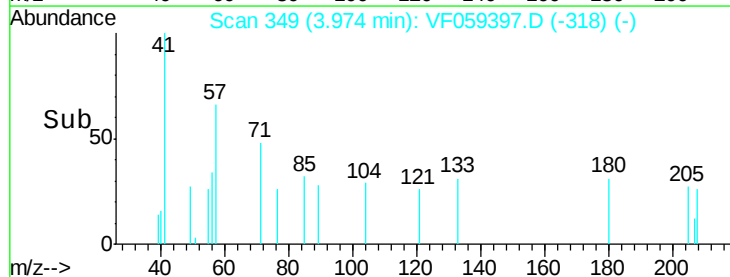
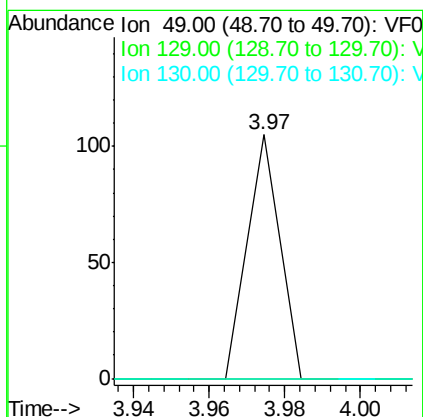
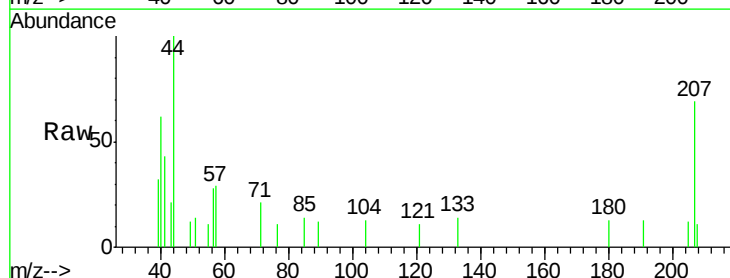
Instrument :
MSVOA_F
ClientSampleId :
CF-3(10.0)

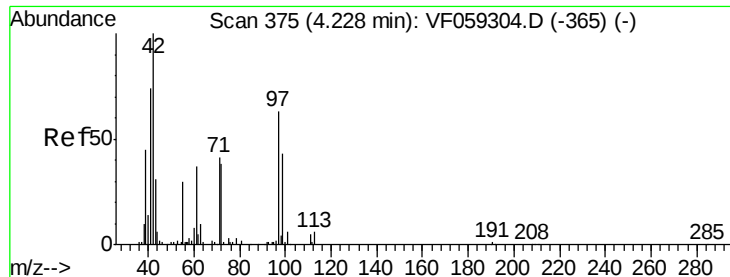
Tot Ion: 84 Resp: 5160
Ion Ratio Lower Upper
84 100
49 145.0 126.5 189.7
51 58.5 42.9 64.3
86 45.1 48.6 73.0#



#28
Bromochloromethane
Concen: Below Cal
RT: 3.97 min Scan# 349
Delta R.T. 0.10 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

Tgt Ion: 49 Resp: 62
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#

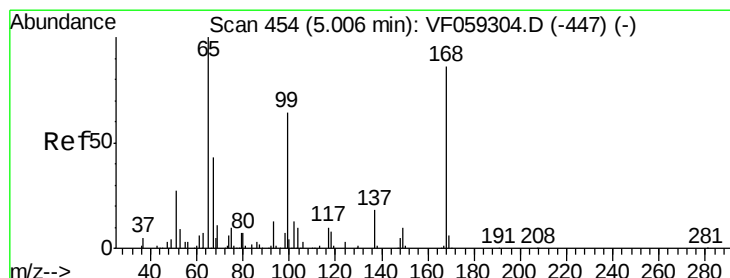
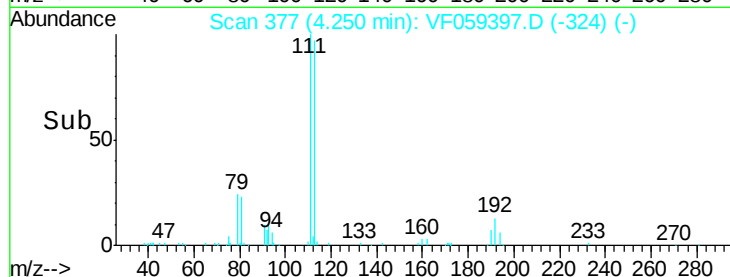
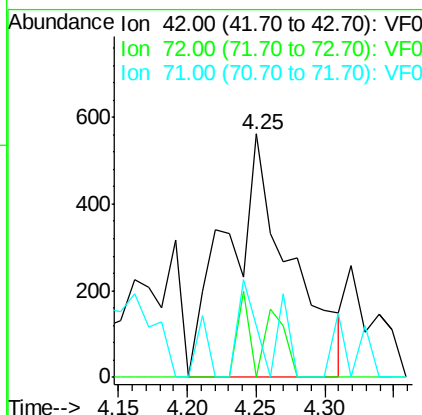
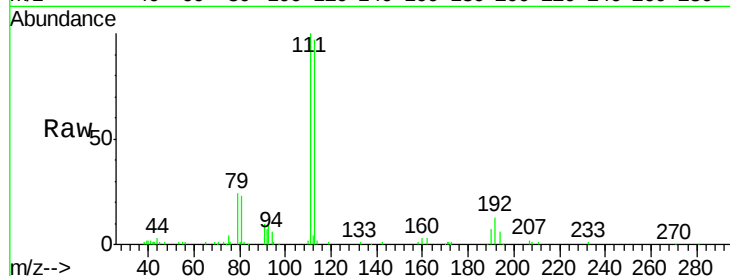




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

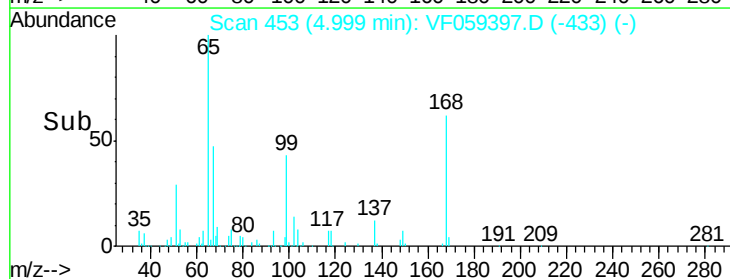
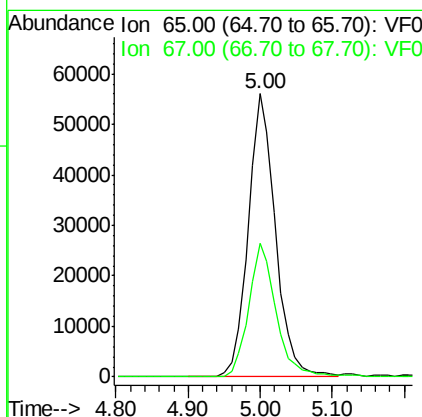
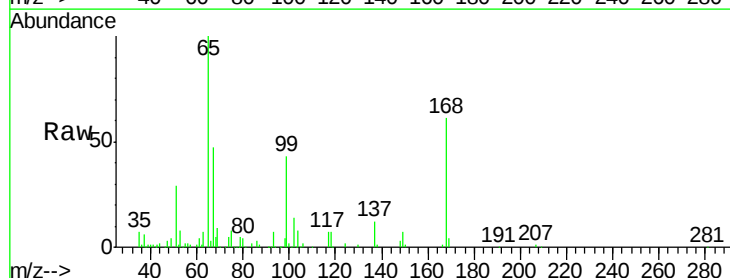
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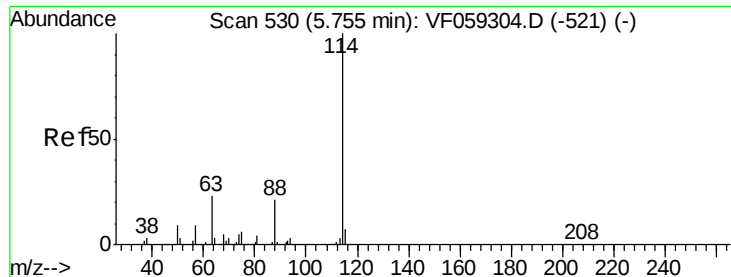
Tot Ion: 42 Resp: 1782
Ion Ratio Lower Upper
42 100
72 6.6 30.5 45.7#
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 50.59 ug/l
RT: 5.00 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

Tgt Ion: 65 Resp: 148175
Ion Ratio Lower Upper
65 100
67 47.4 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

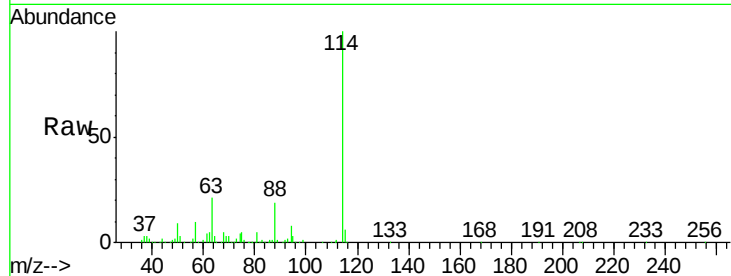
Tot Ion:114 Resp: 350521

Ion Ratio Lower Upper

114 100

63 20.6 0.0 45.8

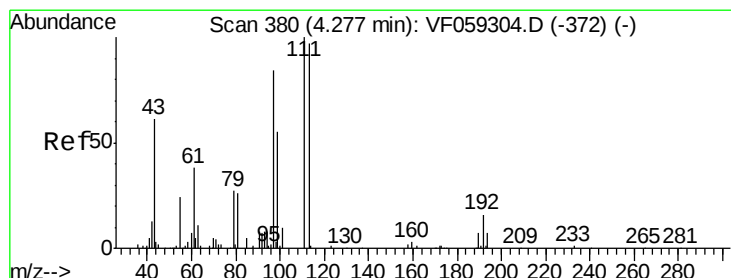
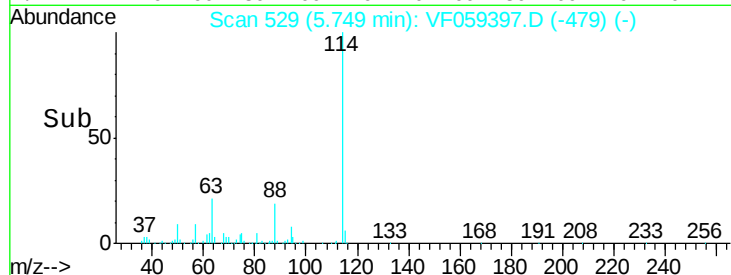
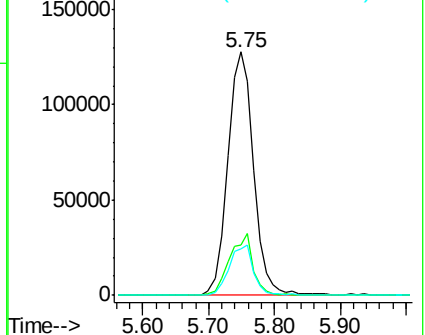
88 19.1 0.0 41.2



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: 57.33 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

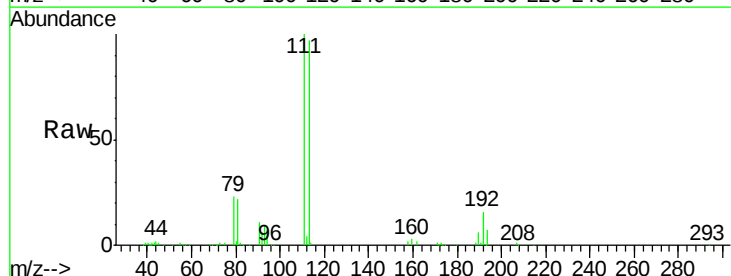
Tgt Ion:113 Resp: 146840

Ion Ratio Lower Upper

113 100

111 102.6 82.1 123.1

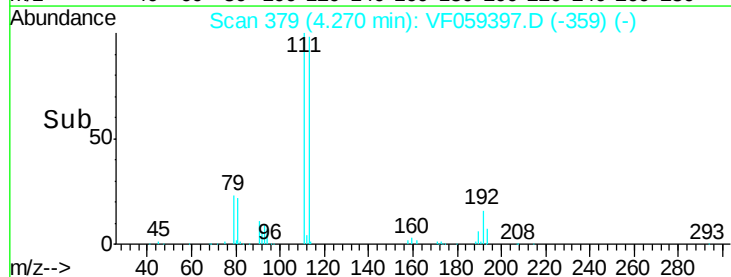
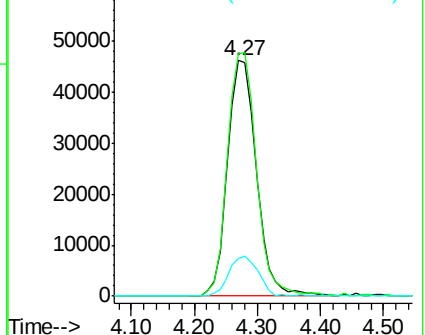
192 16.1 13.0 19.6

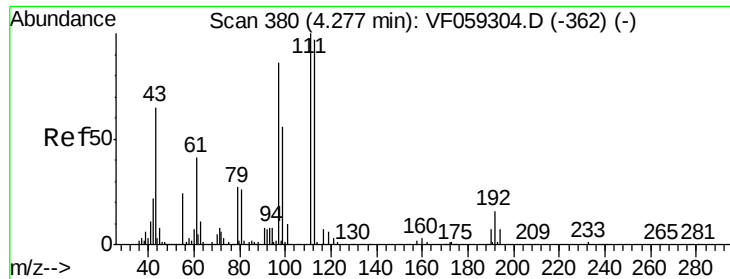


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

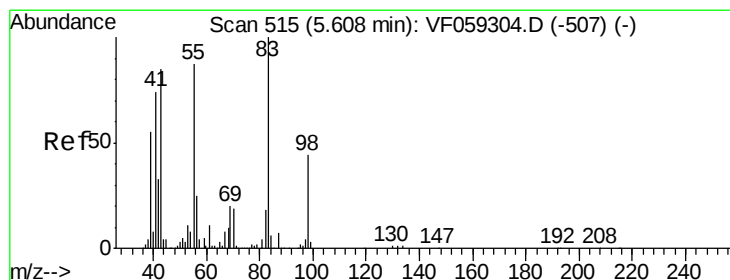
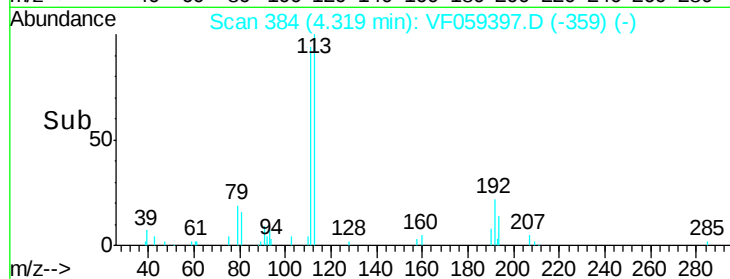
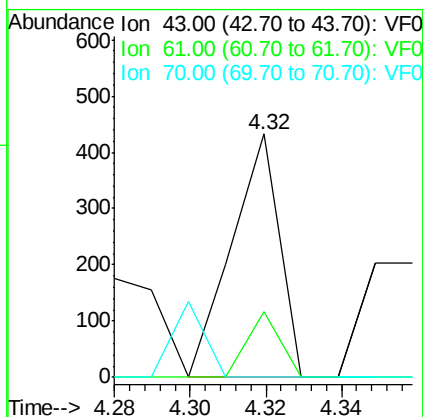
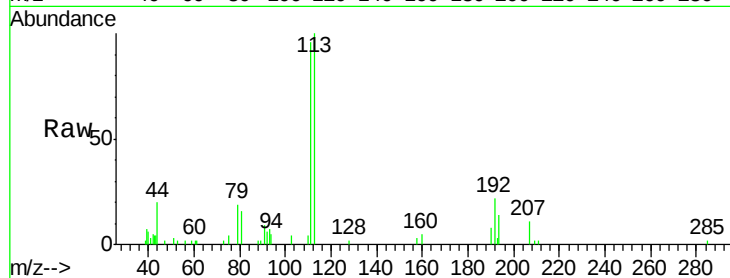




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 384
Delta R.T. 0.04 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

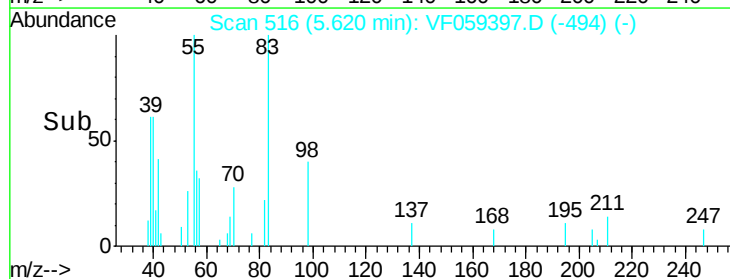
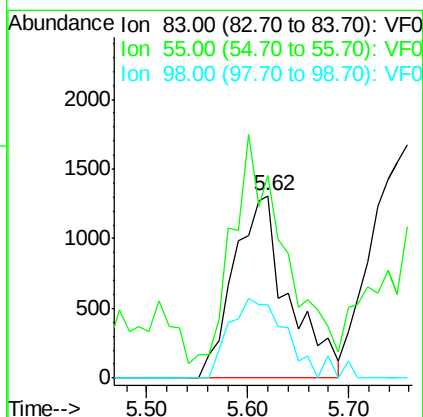
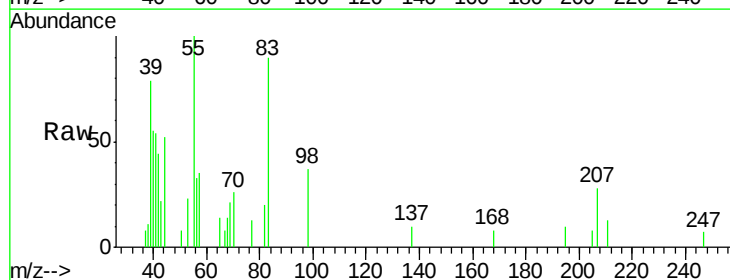
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CF-3(10.0)

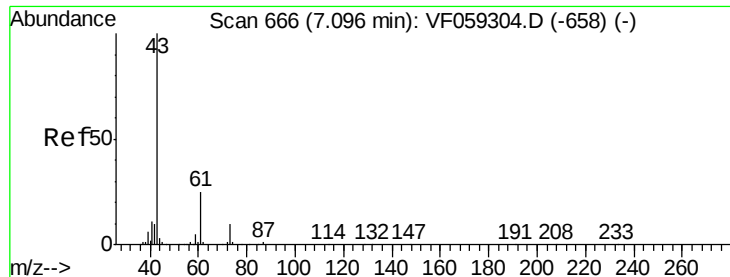
Tot Ion: 43 Resp: 374
Ion Ratio Lower Upper
43 100
61 27.0 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.82 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.01 min
Lab File: VF059397.D
Acq: 2 Jul 2018 19:55

Tgt Ion: 83 Resp: 4935
Ion Ratio Lower Upper
83 100
55 110.6 69.2 103.8#
98 40.5 35.0 52.6





#43

Isopropyl Acetate

Concen: 3.04 ug/l

RT: 7.00 min Scan# 656

Delta R.T. -0.10 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

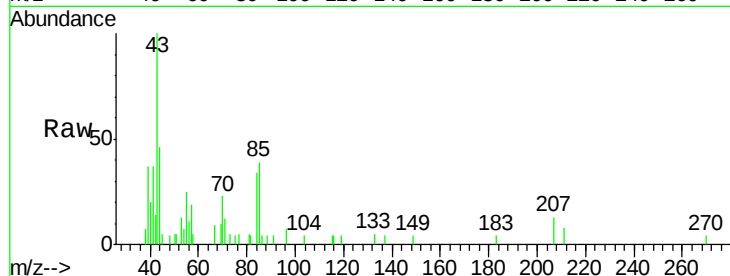
Tot Ion: 43 Resp: 7744

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

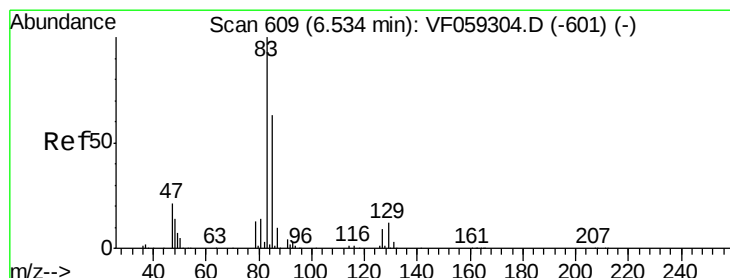
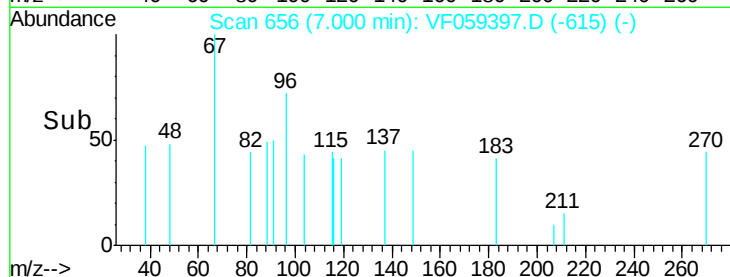
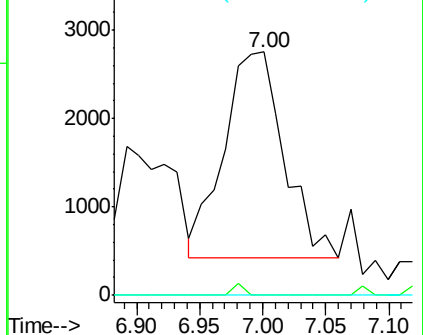
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#47

Bromodichloromethane

Concen: 1.05 ug/l

RT: 6.62 min Scan# 617

Delta R.T. 0.08 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

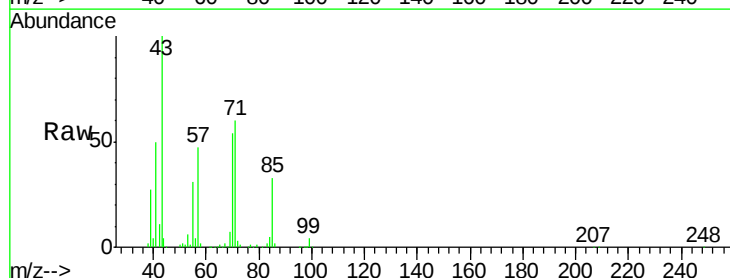
Tgt Ion: 83 Resp: 4284

Ion Ratio Lower Upper

83 100

85 1981.9 50.2 75.2#

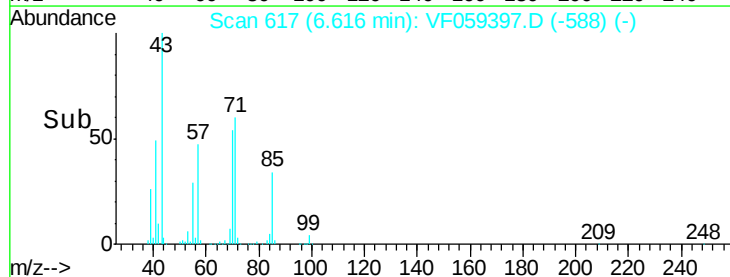
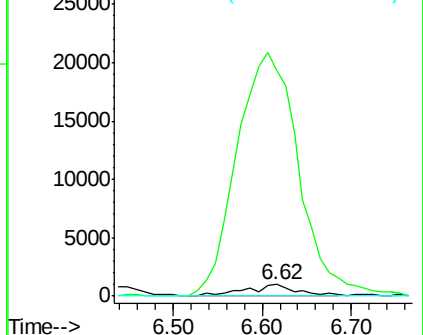
127 0.0 7.0 10.4#

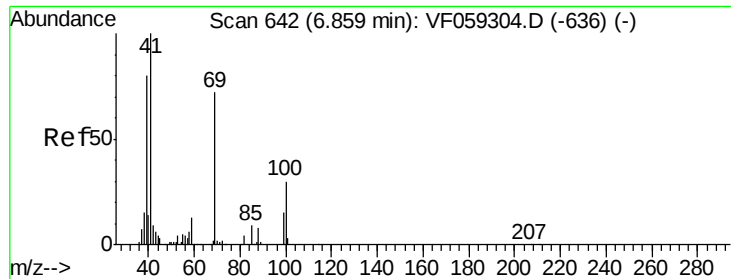


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V





#48

Methyl methacrylate

Concen: 3.40 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.03 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

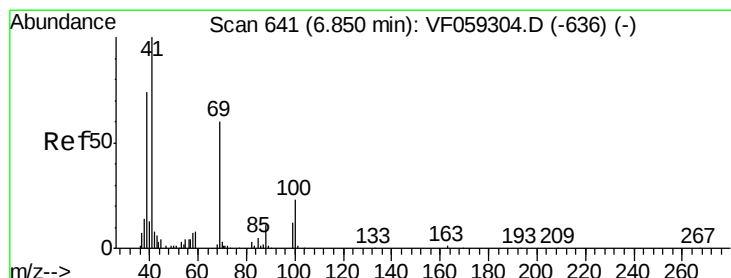
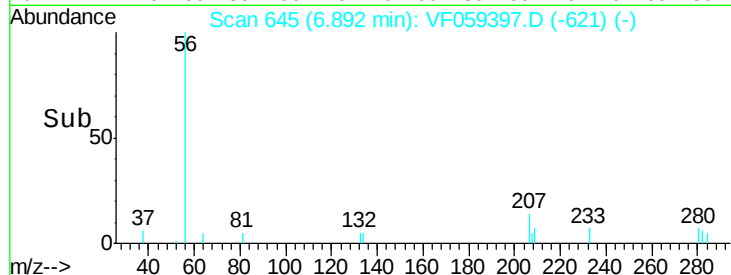
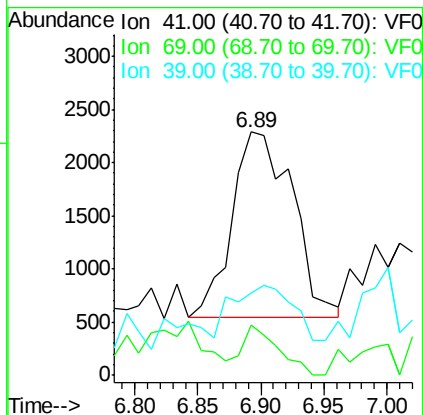
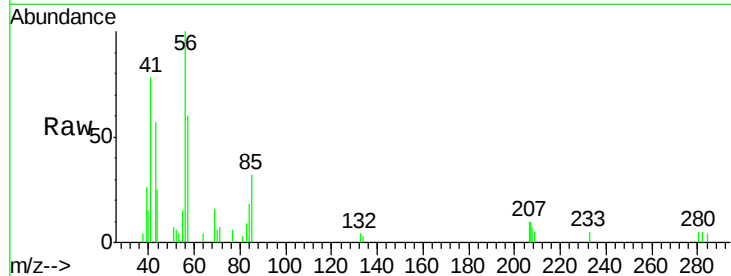
Tot Ion: 41 Resp: 5820

Ion Ratio Lower Upper

41 100

69 20.7 57.3 85.9#

39 33.8 64.4 96.6#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.00 min Scan# 656

Delta R.T. 0.15 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

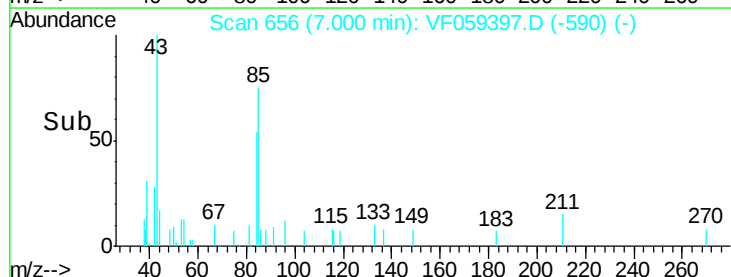
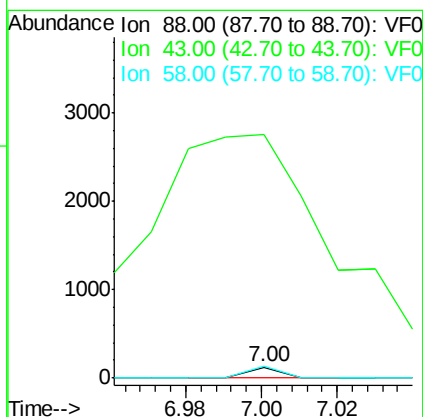
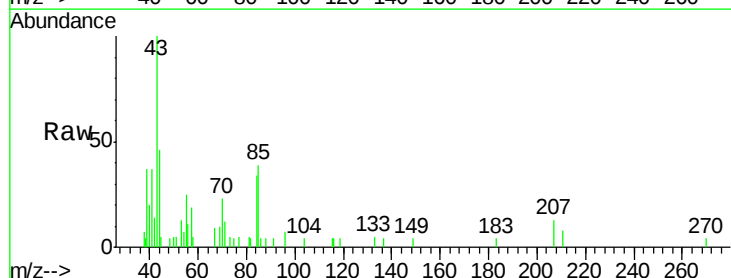
Tgt Ion: 88 Resp: 72

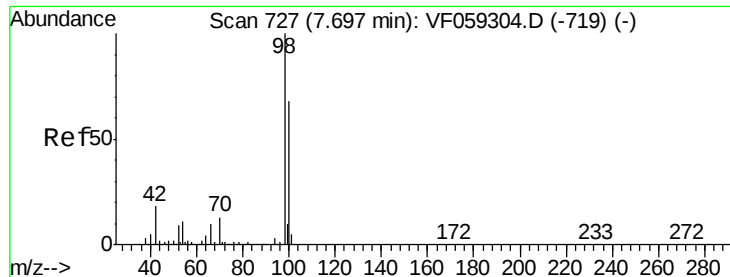
Ion Ratio Lower Upper

88 100

43 2259.0 50.6 75.8#

58 116.4 46.6 69.8#





#50

Toluene-d8

Concen: 45.40 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

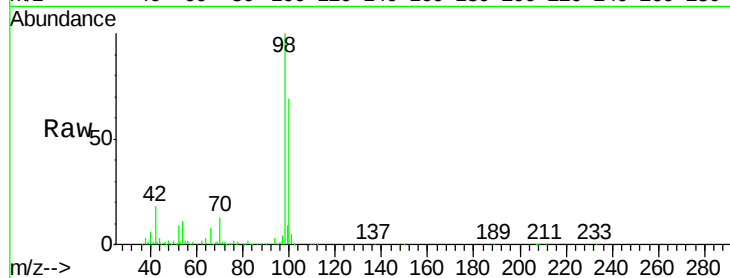
CF-3(10.0)

Tot Ion: 98 Resp: 287861

Ion Ratio Lower Upper

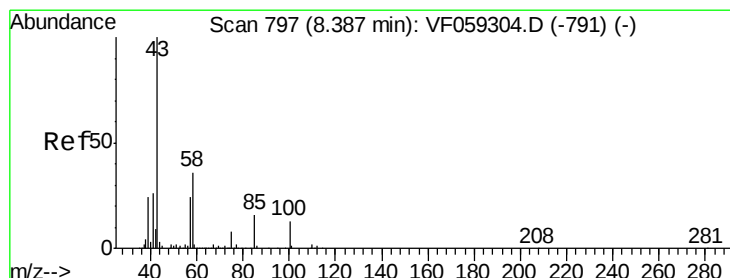
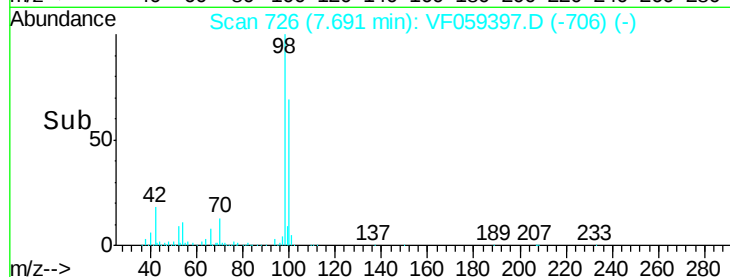
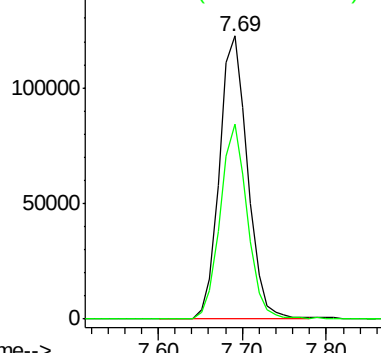
98 100

100 68.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.79 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF059397.D

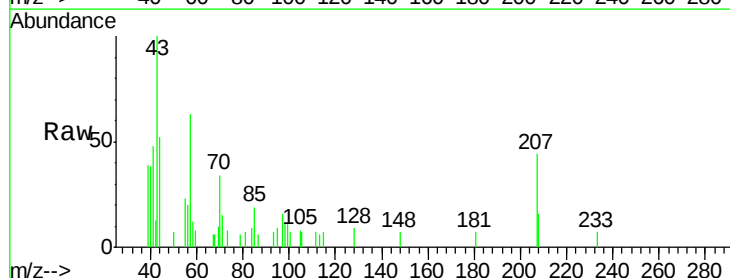
Acq: 2 Jul 2018 19:55

Tgt Ion: 43 Resp: 5280

Ion Ratio Lower Upper

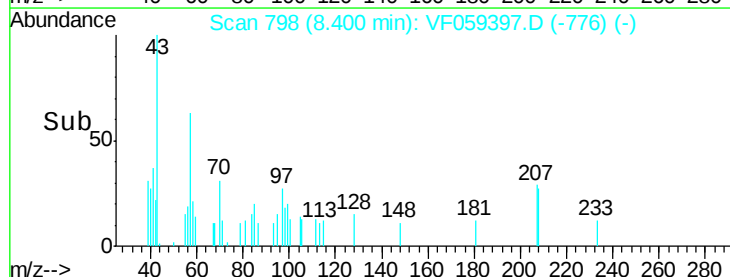
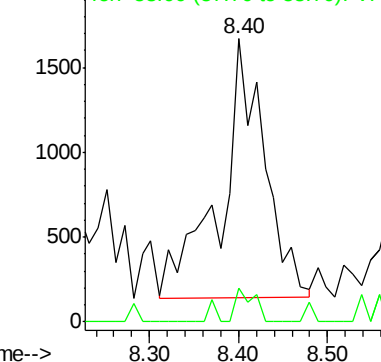
43 100

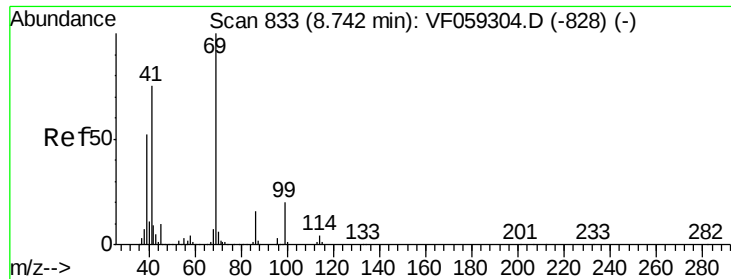
58 11.9 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#56

Ethyl methacrylate

Concen: 5.24 ug/l

RT: 8.75 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

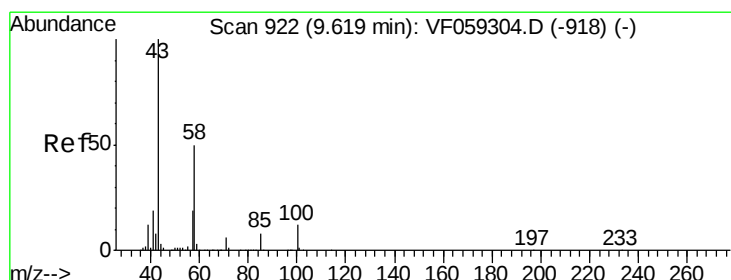
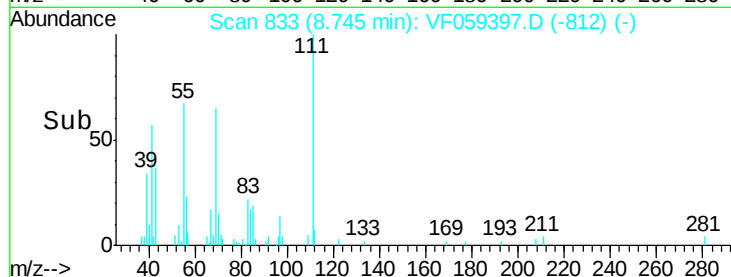
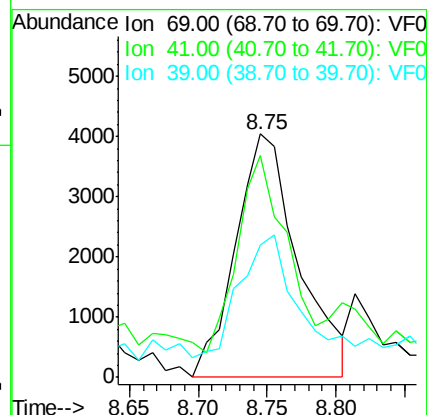
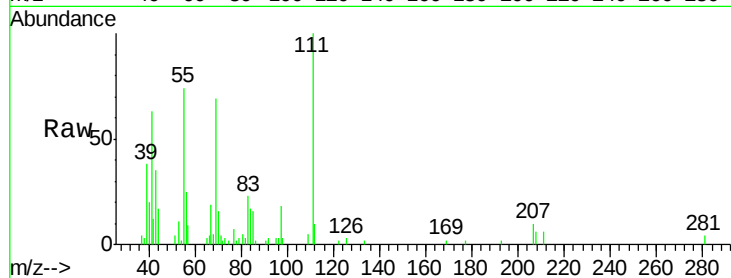
Tot Ion: 69 Resp: 12798

Ion Ratio Lower Upper

69 100

41 91.2 60.3 90.5#

39 54.1 42.2 63.4



#59

2-Hexanone

Concen: Below Cal

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF059397.D

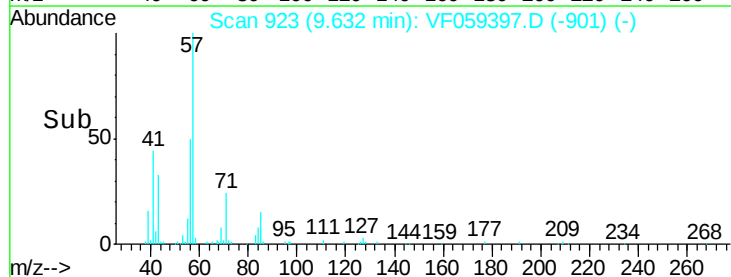
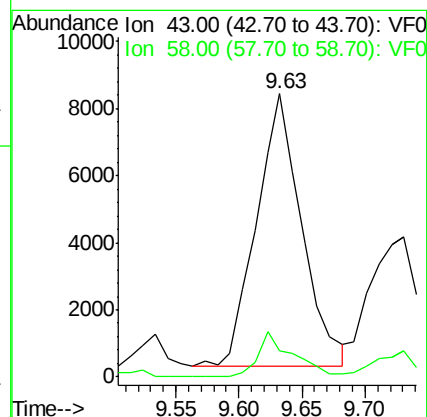
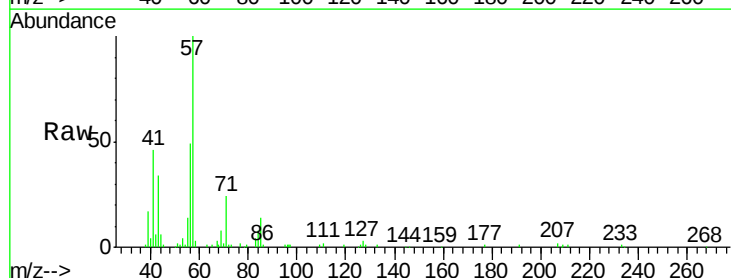
Acq: 2 Jul 2018 19:55

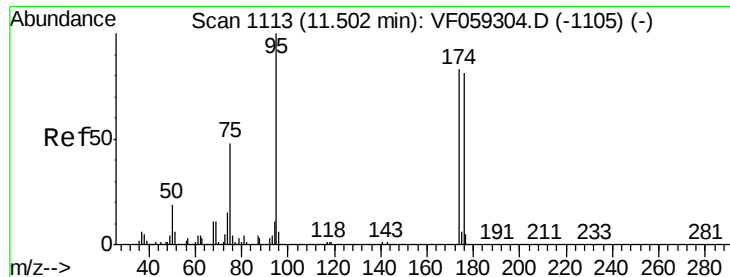
Tgt Ion: 43 Resp: 20212

Ion Ratio Lower Upper

43 100

58 9.3 23.3 69.9#





#62

4-Bromofluorobenzene

Concen: 51.64 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

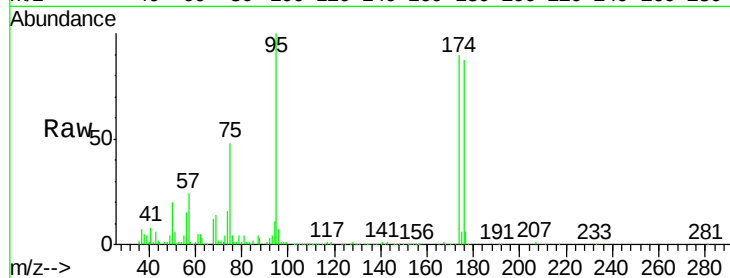
Tot Ion: 95 Resp: 184723

Ion Ratio Lower Upper

95 100

174 89.7 0.0 165.2

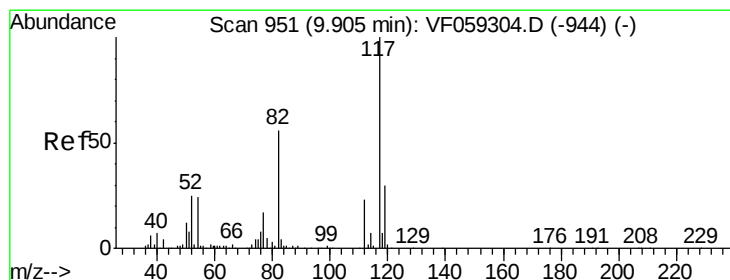
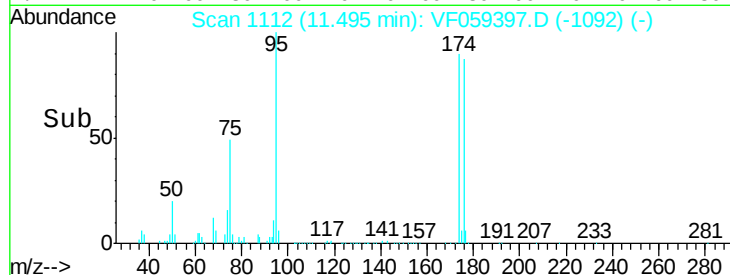
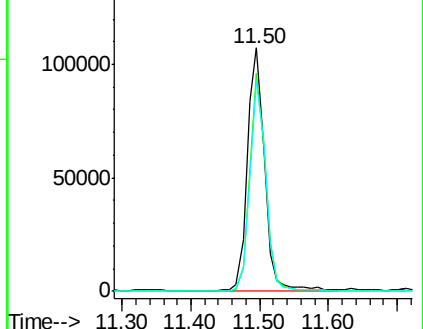
176 86.6 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

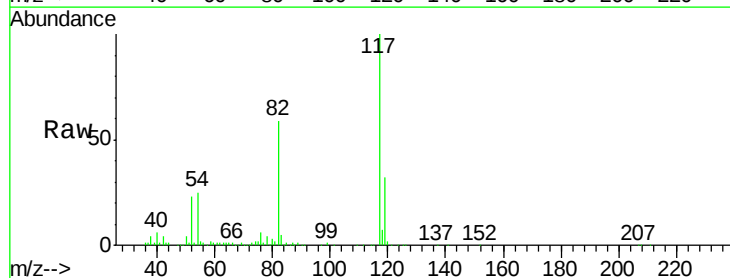
Tgt Ion: 117 Resp: 290358

Ion Ratio Lower Upper

117 100

82 59.1 44.6 66.8

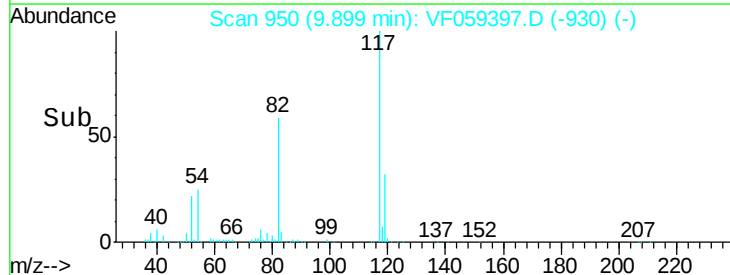
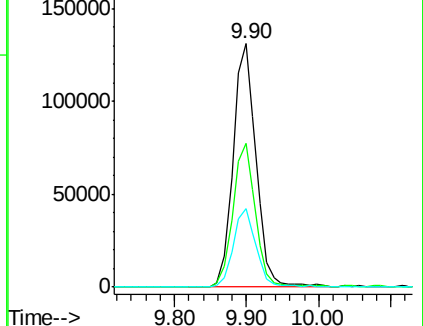
119 32.5 24.1 36.1

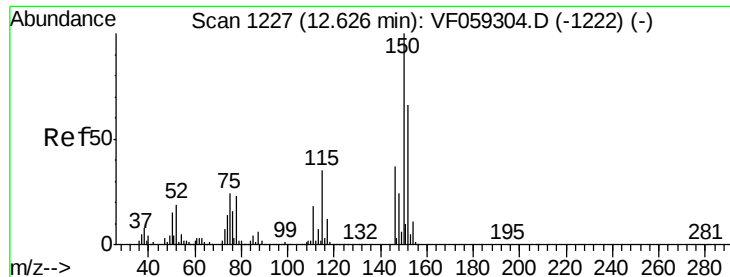


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

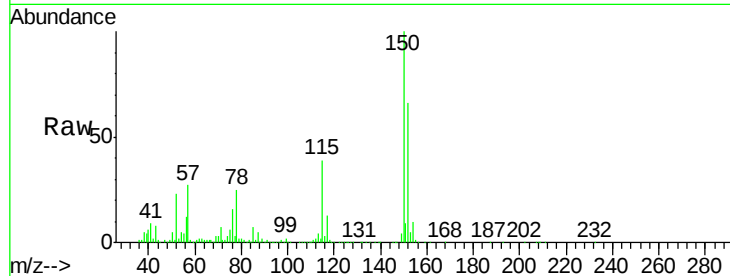
Tot Ion:152 Resp: 179712

Ion Ratio Lower Upper

152 100

115 58.7 27.1 81.3

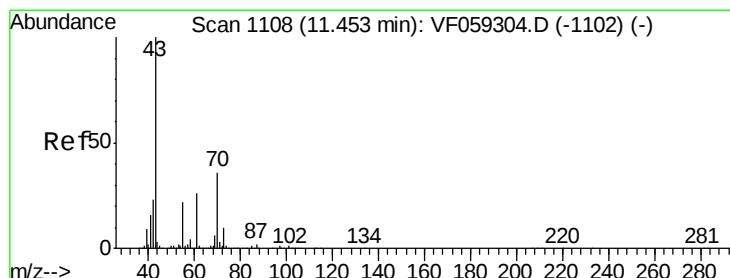
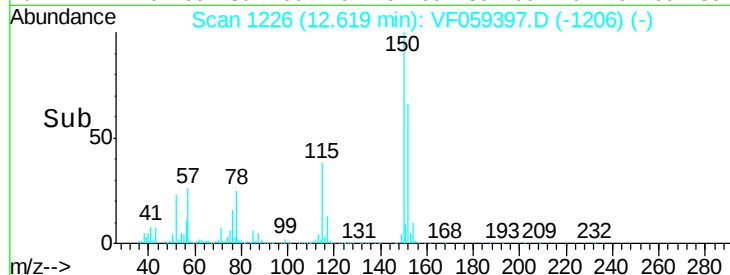
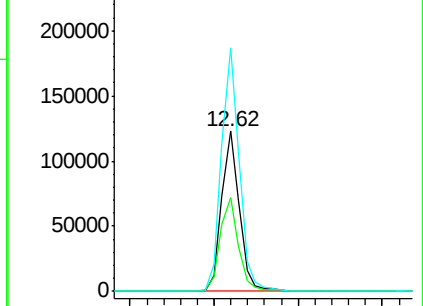
150 152.2 0.0 305.2



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: 1.86 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Tgt Ion: 43 Resp: 7061

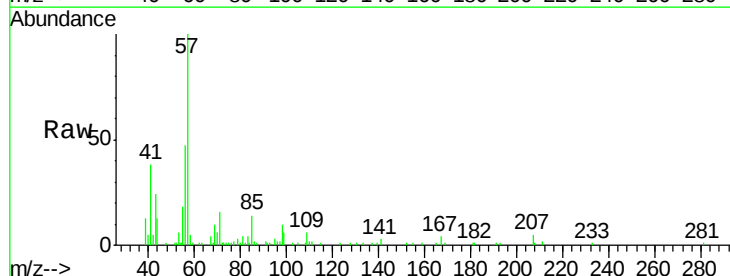
Ion Ratio Lower Upper

43 100

70 24.6 28.8 43.2#

55 75.3 17.4 26.0#

61 0.0 21.1 31.7#

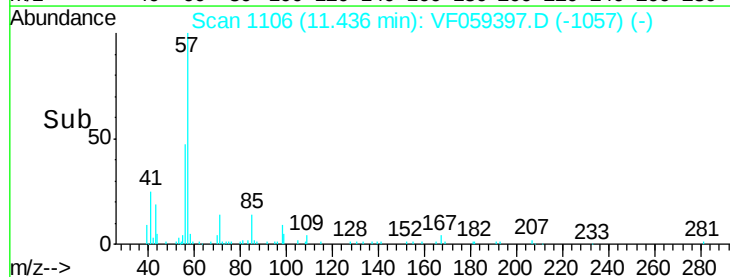
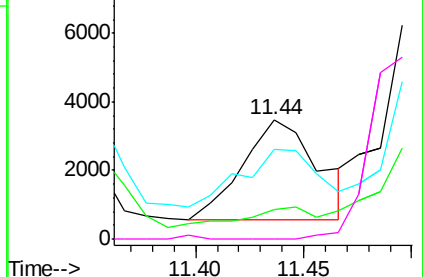


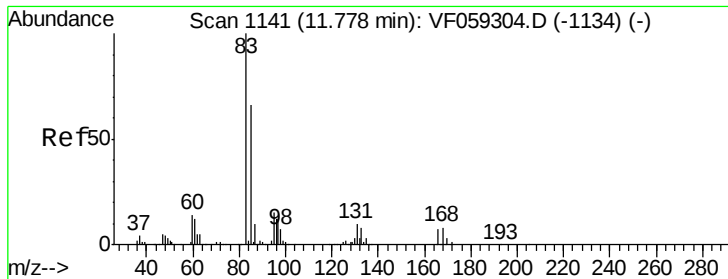
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.12 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.02 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

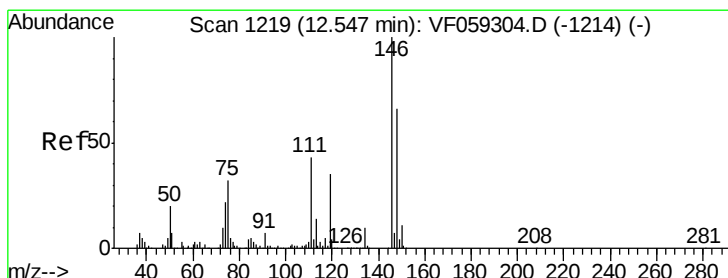
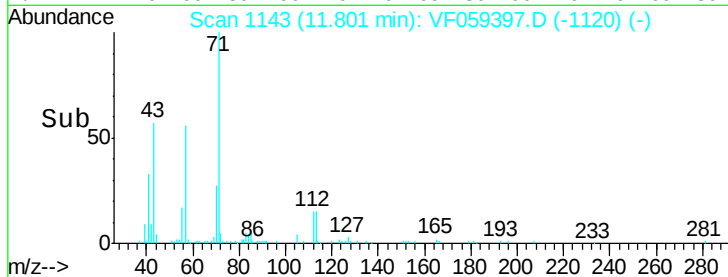
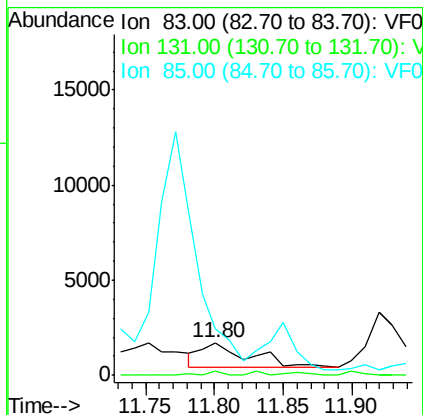
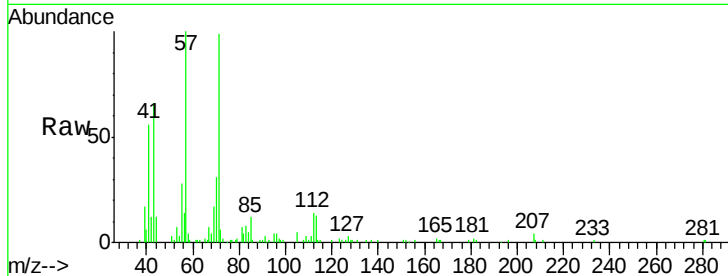
Tot Ion: 83 Resp: 2963

Ion Ratio Lower Upper

83 100

131 11.9 4.9 14.6

85 141.8 32.8 98.4#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

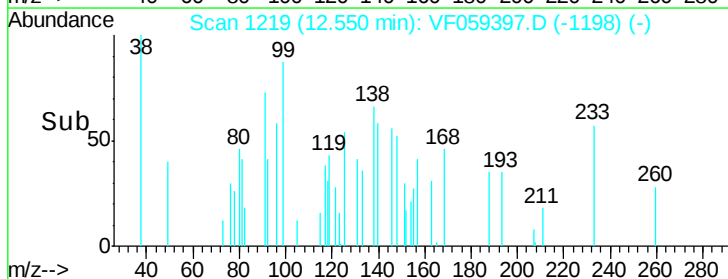
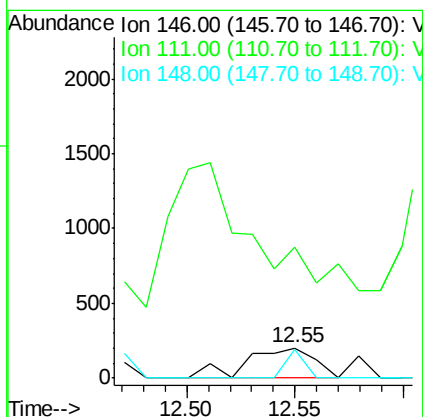
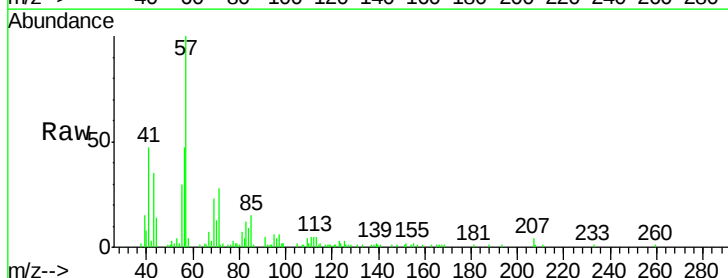
Tgt Ion:146 Resp: 445

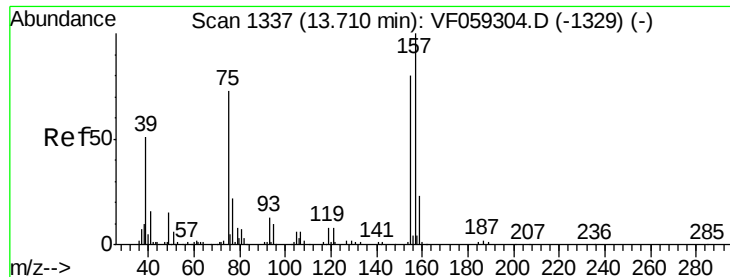
Ion Ratio Lower Upper

146 100

111 430.0 21.4 64.2#

148 92.1 32.8 98.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.36 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VF059397.D

Acq: 2 Jul 2018 19:55

Instrument :

MSVOA_F

ClientSampleId :

CF-3(10.0)

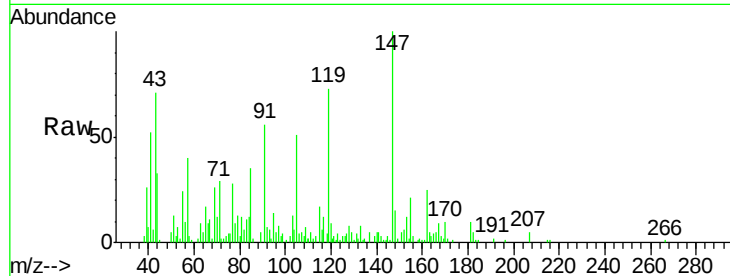
Tot Ion: 75 Resp: 797

Ion Ratio Lower Upper

75 100

155 464.6 54.6 163.8#

157 0.0 68.7 205.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

