

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059436.D
 Acq On : 5 Jul 2018 16:12
 Operator : VA/AP
 Sample : J3858-04RE
 Misc : 9.74g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-BRE

Quant Time: Jul 06 02:05:13 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	0.00	168	0	0.00	ug/l	-5.03
34) 1,4-Difluorobenzene	6.04	114	93	50.00	ug/l	0.29
63) Chlorobenzene-d5	10.38	117	61	50.00	ug/l	0.48
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.91	65	93	0.00	ug/l	-0.09
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	12.03	95	64	67.44	ug/l	0.53
Spiked Amount	50.000		Recovery	=	134.88%	

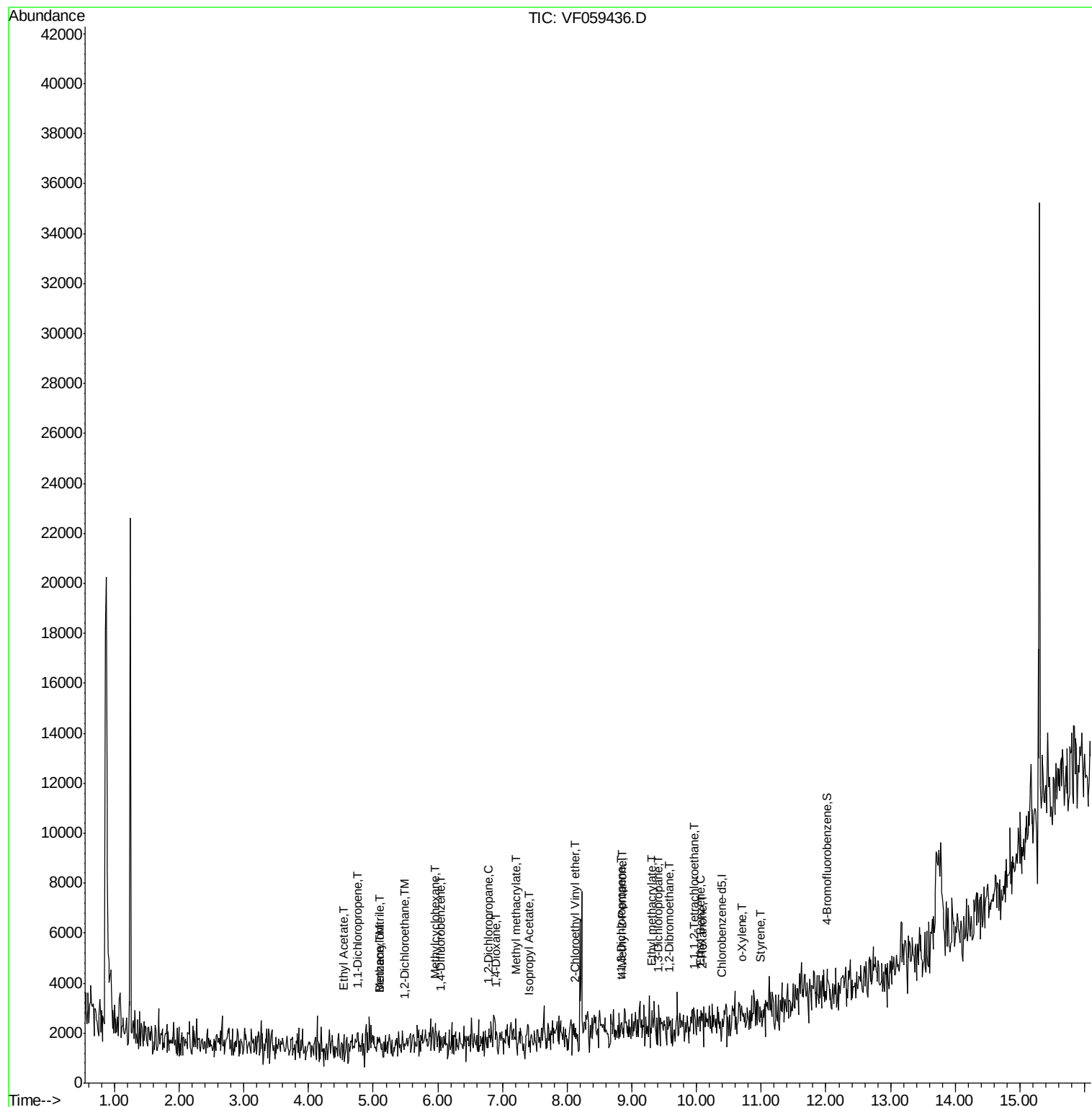
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.77	75	64	78.776	ug/l #	44
37) Ethyl Acetate	4.56	43	173	341.512	ug/l #	26
39) Methylcyclohexane	5.97	83	76	105.565	ug/l #	15
40) Benzene	5.11	78	69	38.305	ug/l #	51
41) Methacrylonitrile	5.10	41	195	703.639	ug/l #	17
42) 1,2-Dichloroethane	5.49	62	69	65.553	ug/l	83
43) Isopropyl Acetate	7.42	43	105	155.162	ug/l #	52
45) 1,2-Dichloropropane	6.77	63	63	122.412	ug/l #	43
48) Methyl methacrylate	7.21	41	64	141.110	ug/l #	11
49) 1,4-Dioxane	6.90	88	66	28440.879	ug/l #	20
51) 4-Methyl-2-Pentanone	8.84	43	360	718.069	ug/l #	39
53) t-1,3-Dichloropropene	8.82	75	71	72.036	ug/l #	1
56) Ethyl methacrylate	9.30	69	60	92.549	ug/l #	17
57) 1,3-Dichloropropane	9.40	76	132	147.067	ug/l #	44
58) 2-Chloroethyl Vinyl ether	8.13	63	67	1377.978	ug/l	100
59) 2-Hexanone	10.10	43	150	409.006	ug/l #	30
61) 1,2-Dibromoethane	9.57	107	60	94.533	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	9.98	131	59	120.685	ug/l #	10
67) Ethyl Benzene	10.07	91	70	36.505	ug/l #	44
69) o-Xylene	10.69	106	93	121.824	ug/l #	11
70) Styrene	10.97	104	63	54.176	ug/l #	29

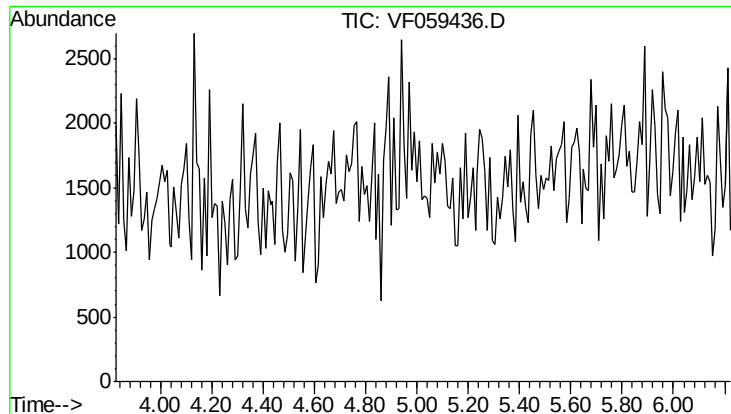
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.03 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

Tot Ion: 168

Sig Exp Ratio

168 100

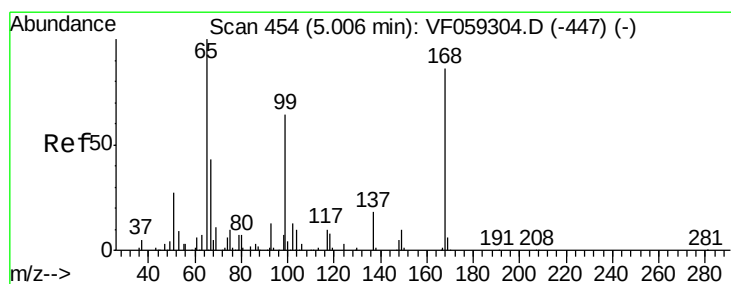
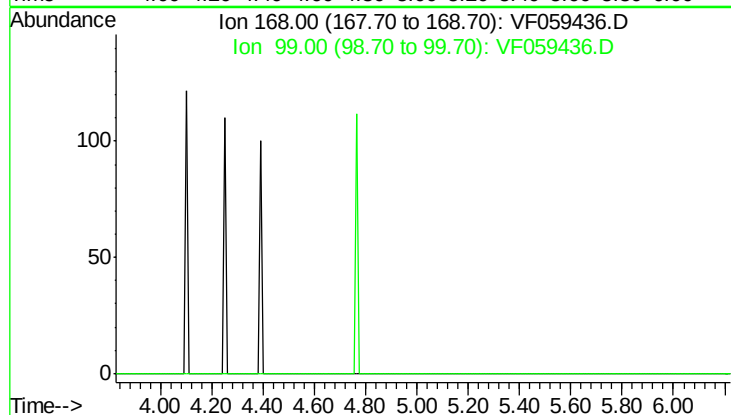
99 68.6

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-BRE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.09 min

Lab File: VF059436.D

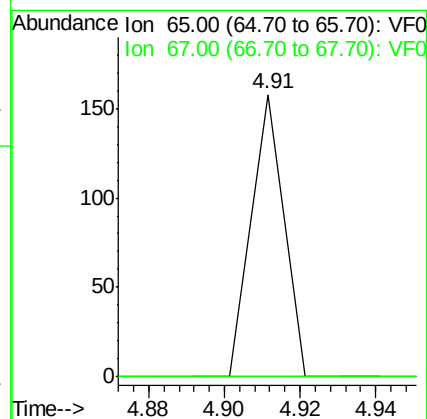
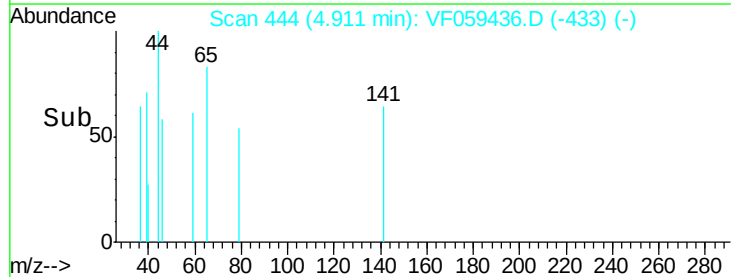
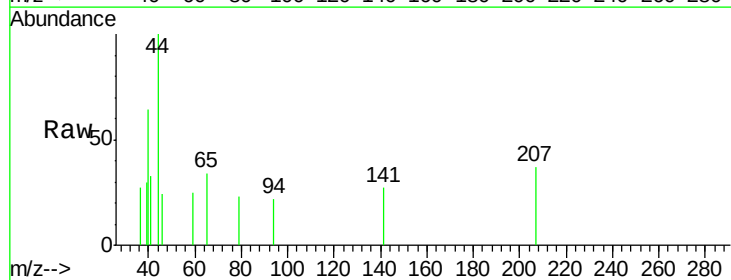
Acq: 5 Jul 2018 16:12

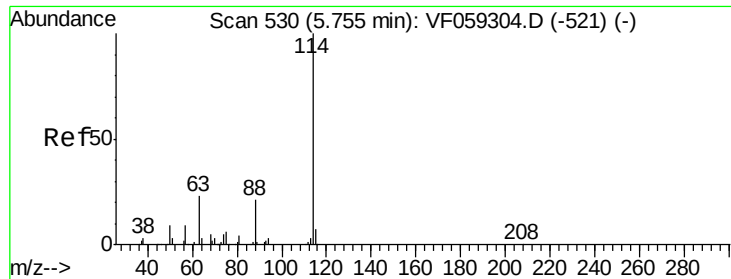
Tgt Ion: 65 Resp: 93

Ion Ratio Lower Upper

65 100

67 0.0 0.0 96.8

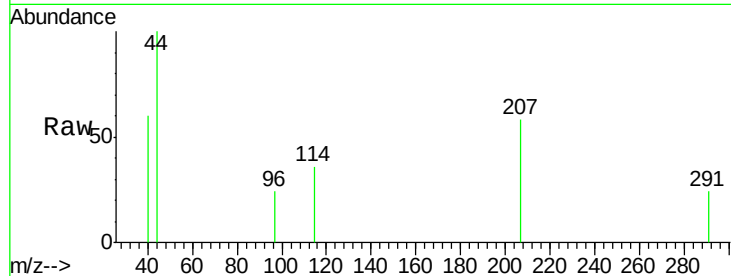




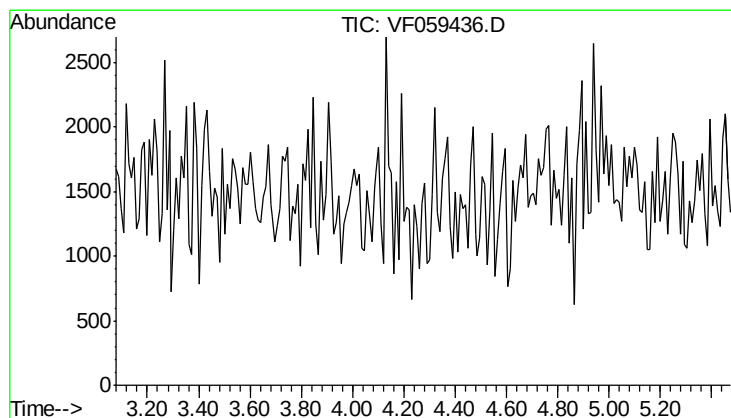
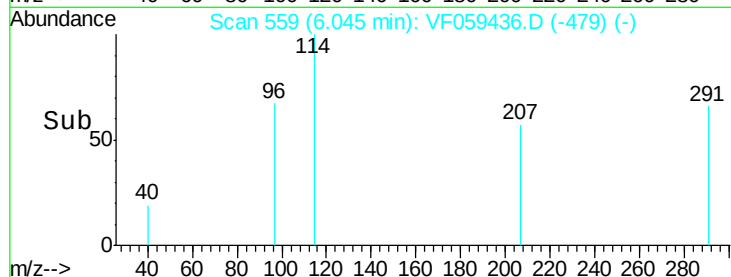
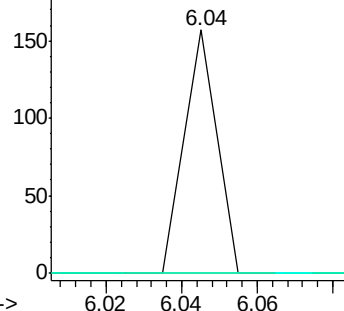
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.04 min Scan# 559
 Delta R.T. 0.29 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-BRE

Tot Ion:114 Resp: 93
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 45.8
 88 0.0 0.0 41.2

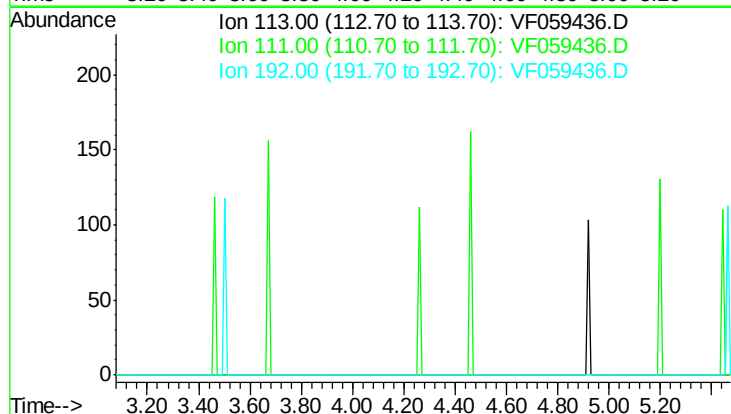


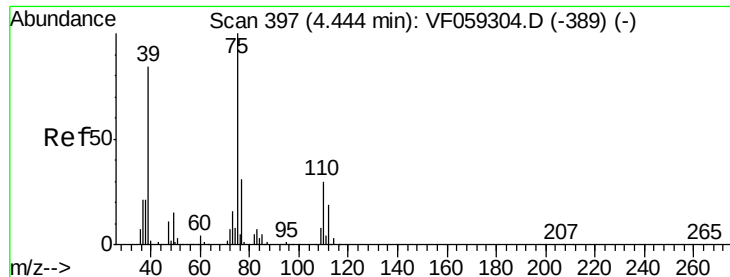
Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.28 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 102.6
 192 16.3

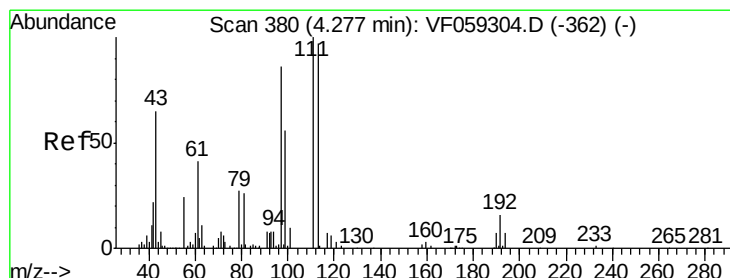
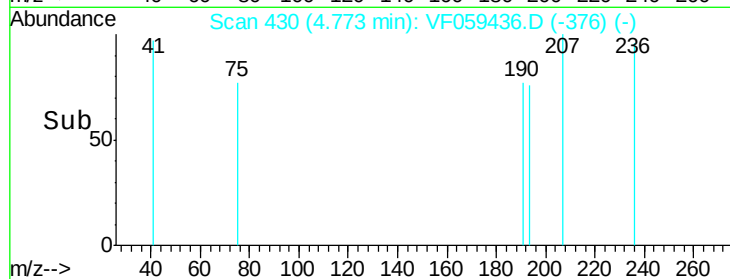
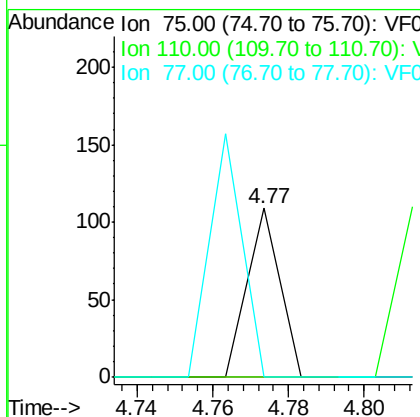
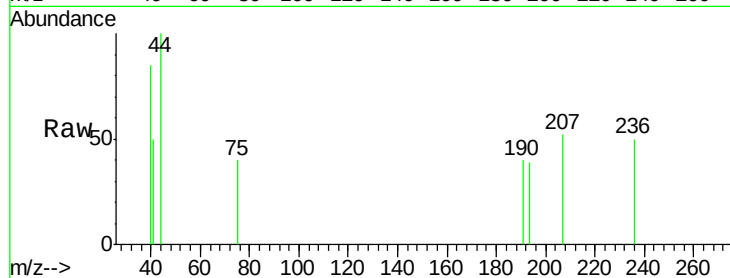




#36
 1,1-Dichloropropene
 Concen: 78.776 ug/l
 RT: 4.77 min Scan# 430
 Delta R.T. 0.33 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

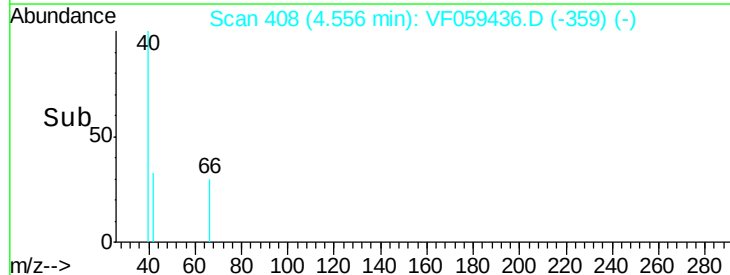
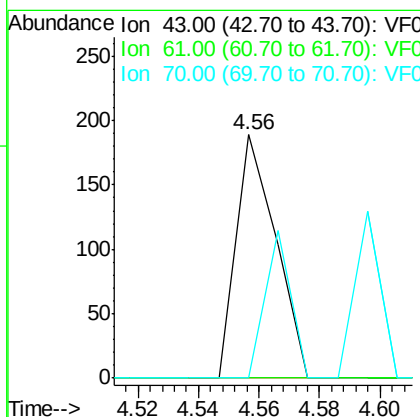
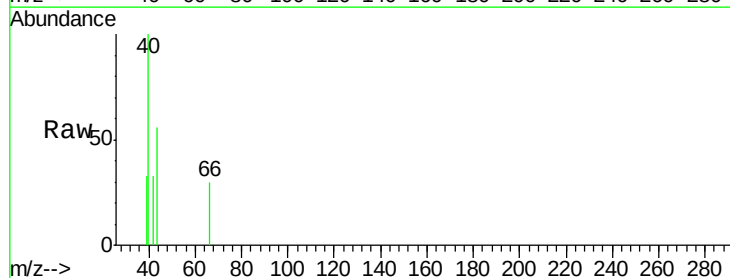
Instrument :
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 FK-GF-03-005-BRE

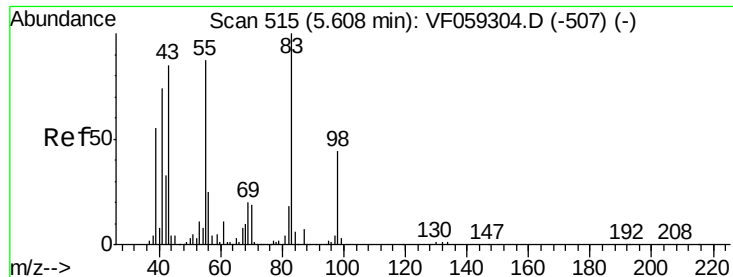
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	14.8	44.4#
77	0.0	25.2	37.8#



#37
 Ethyl Acetate
 Concen: 341.512 ug/l
 RT: 4.56 min Scan# 408
 Delta R.T. 0.28 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#

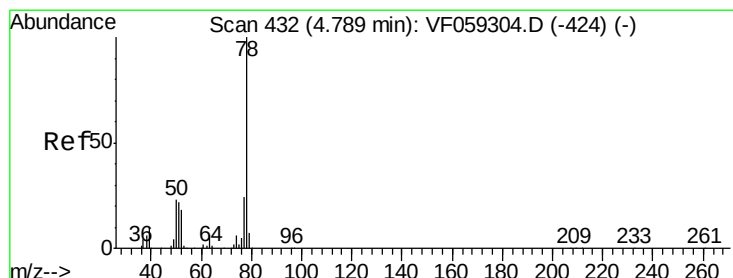
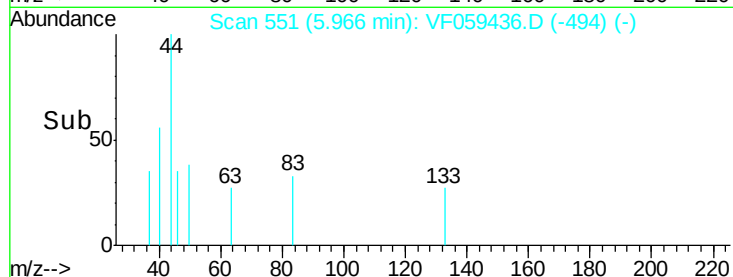
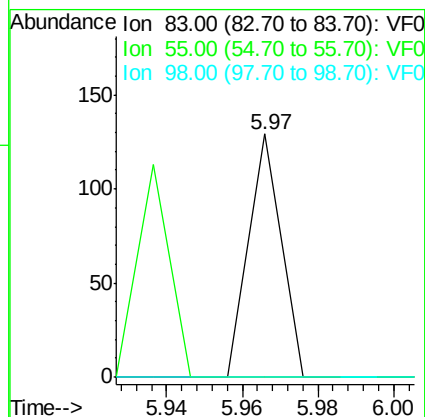
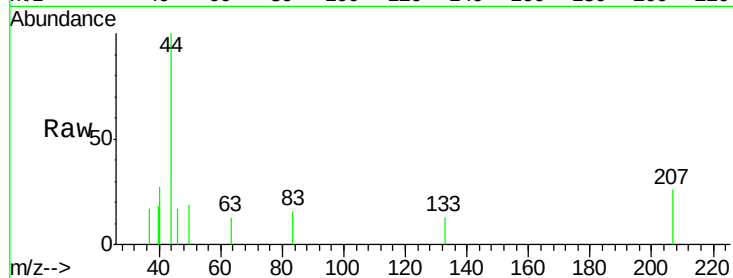




#39
Methylvlcyclohexane
Concen: 105.565 ug/l
RT: 5.97 min Scan# 551
Delta R.T. 0.36 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

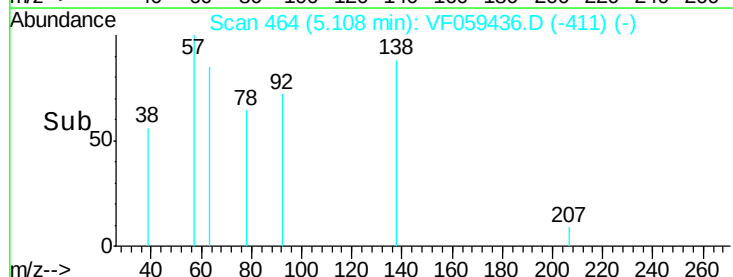
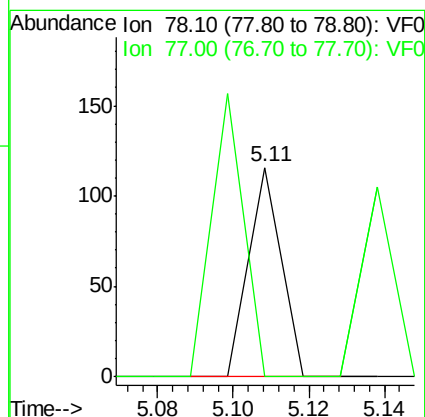
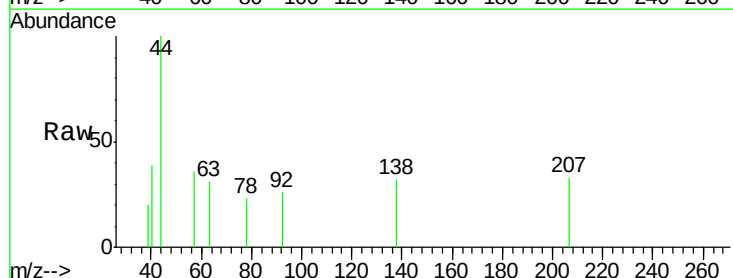
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-BRE

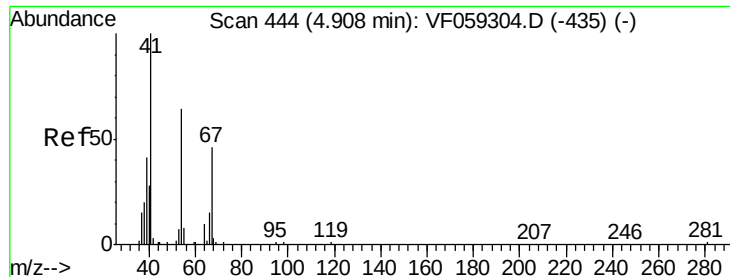
Tot Ion: 83 Resp: 76
Ion Ratio Lower Upper
83 100
55 0.0 69.2 103.8#
98 0.0 35.0 52.6#



#40
Benzene
Concen: 38.305 ug/l
RT: 5.11 min Scan# 464
Delta R.T. 0.32 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion: 78 Resp: 69
Ion Ratio Lower Upper
78 100
77 0.0 19.6 29.4#

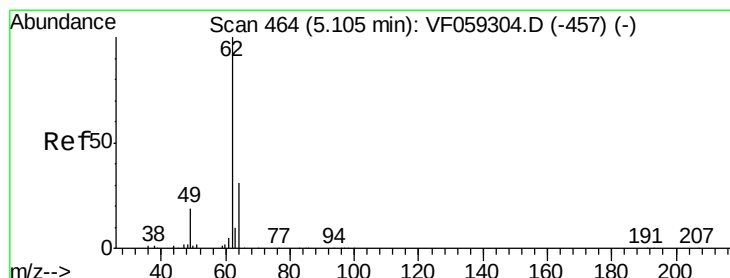
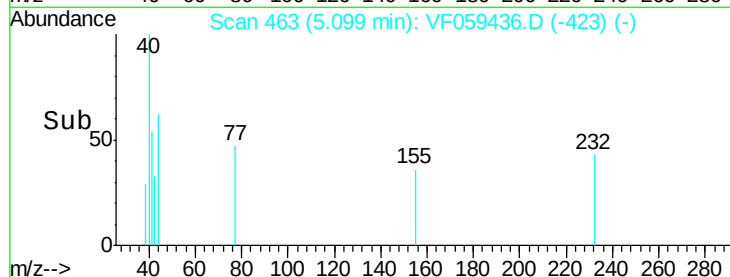
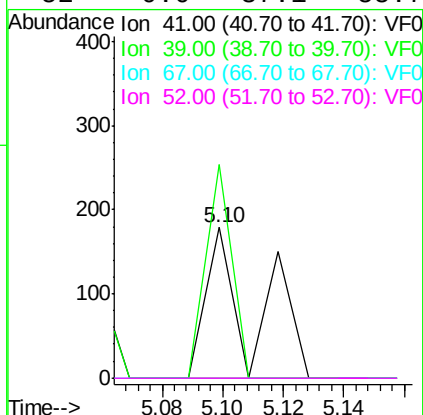
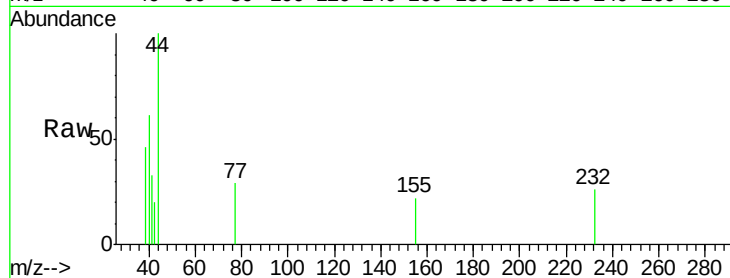




#41
Methacrylonitrile
Concen: 703.639 ug/l
RT: 5.10 min Scan# 463
Delta R.T. 0.19 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

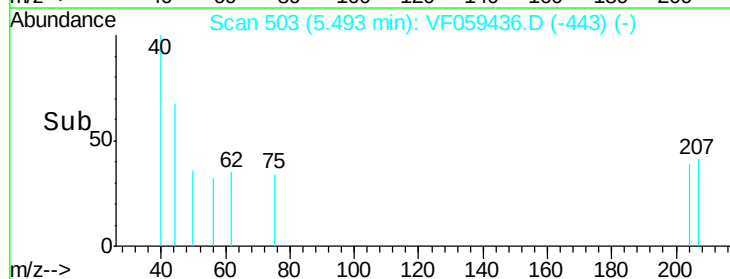
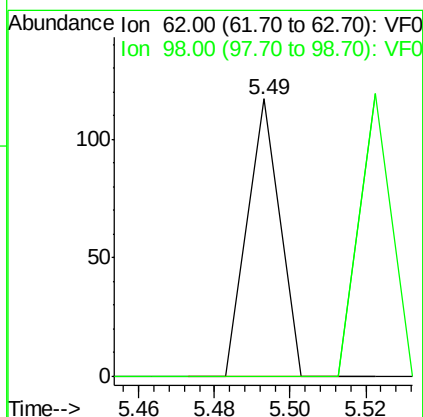
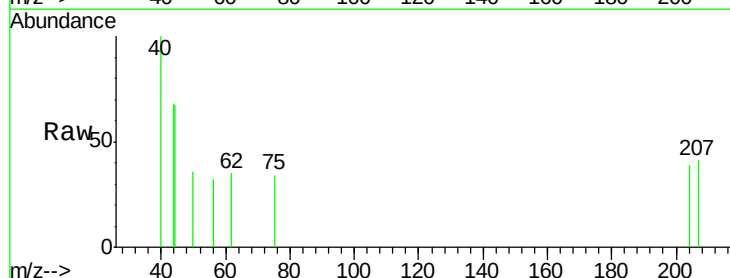
Instrument :
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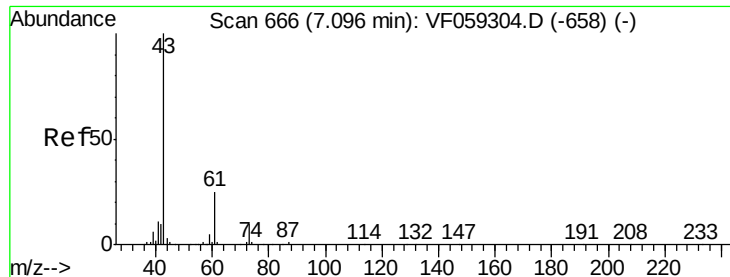
Tot Ion:	41	Resp:	195
Ion	Ratio	Lower	Upper
41	100		
39	141.9	50.0	75.0#
67	0.0	37.0	55.6#
52	0.0	37.1	55.7#



#42
1,2-Dichloroethane
Concen: 65.553 ug/l
RT: 5.49 min Scan# 503
Delta R.T. 0.39 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion:	62	Resp:	69
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	11.4





#43

Isopropyl Acetate

Concen: 155.162 ug/l

RT: 7.42 min Scan# 698

Delta R.T. 0.32 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-BRE

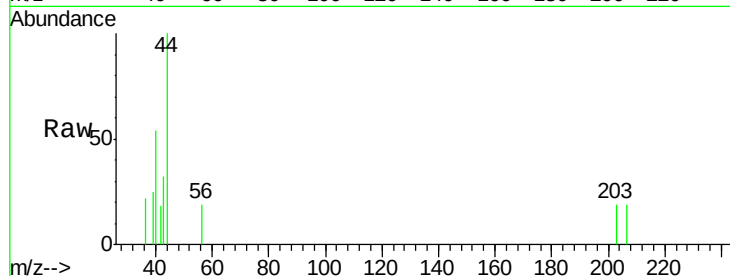
Tot Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

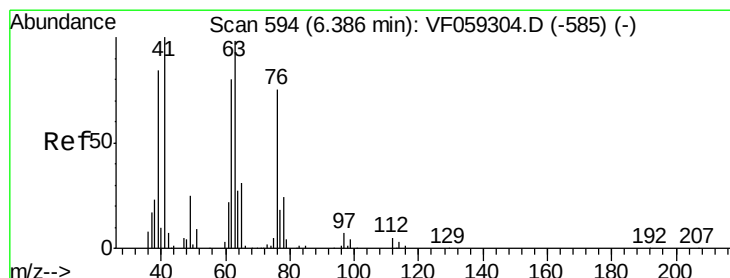
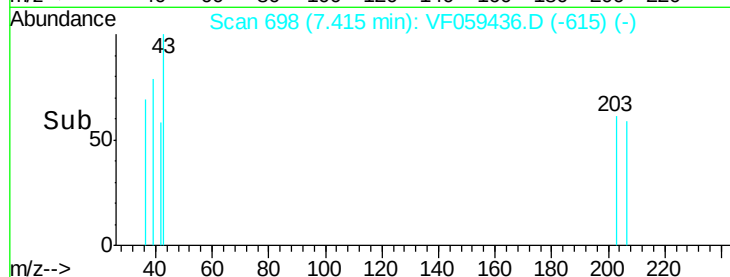
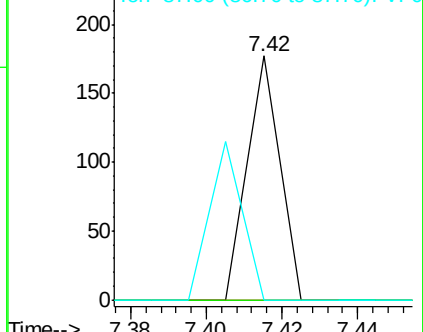
87 0.0 0.5 0.7#



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



#45

1,2-Dichloropropane

Concen: 122.412 ug/l

RT: 6.77 min Scan# 633

Delta R.T. 0.39 min

Lab File: VF059436.D

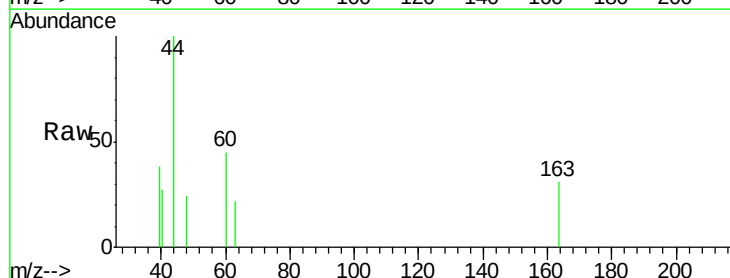
Acq: 5 Jul 2018 16:12

Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

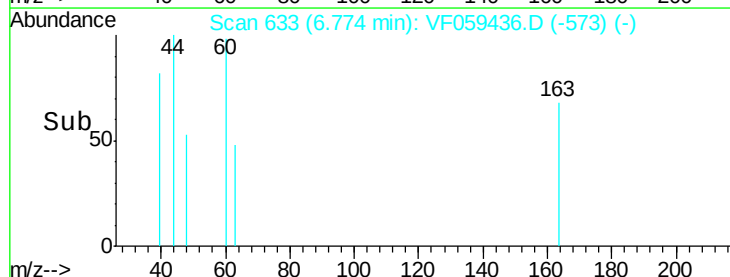
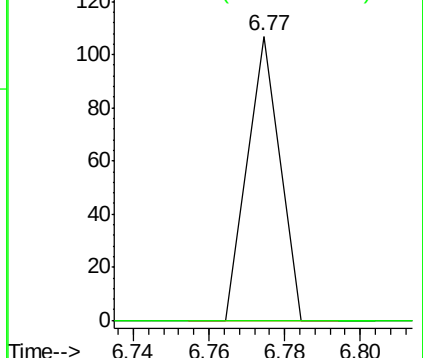
63 100

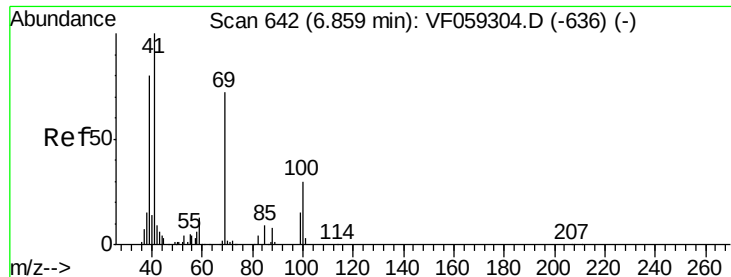
65 0.0 25.3 37.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

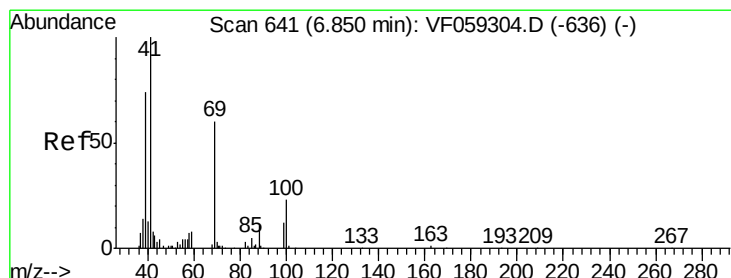
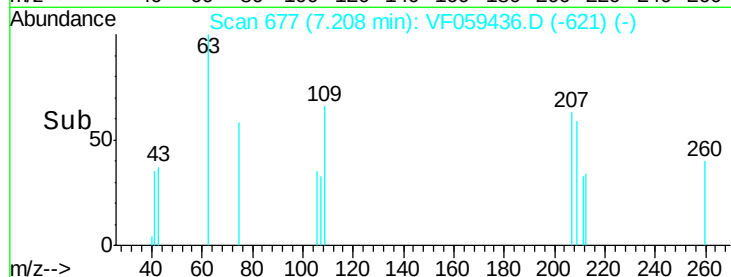
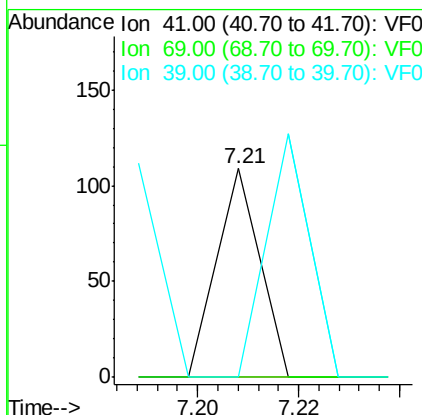
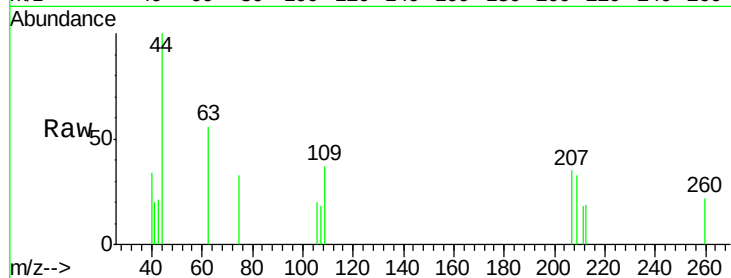




#48
Methyl methacrylate
Concen: 141.110 ug/l
RT: 7.21 min Scan# 677
Delta R.T. 0.35 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

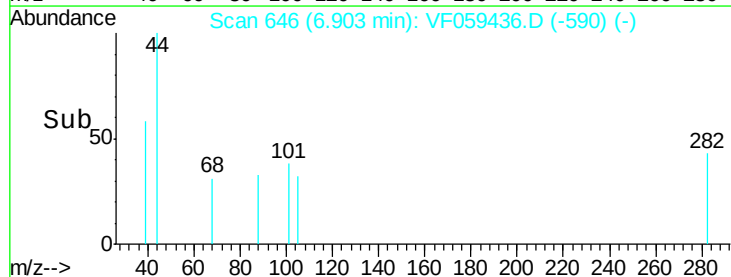
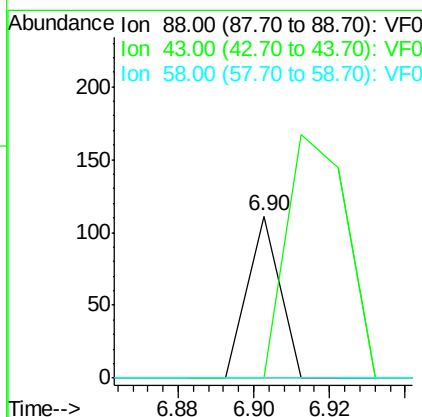
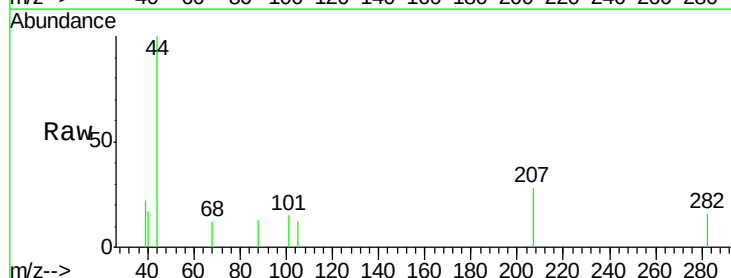
Instrument :
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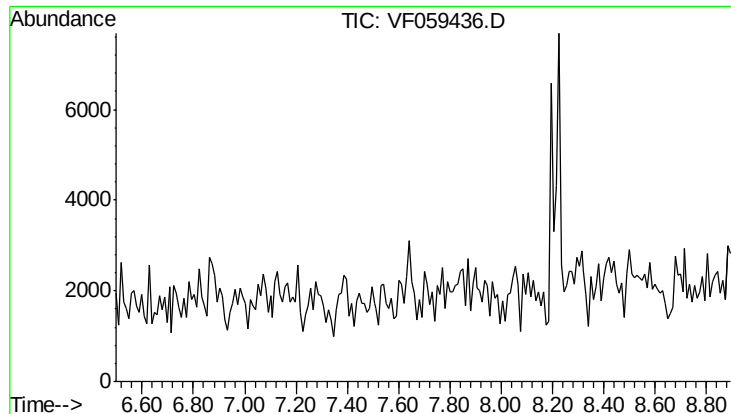
Tot Ion: 41 Resp: 64
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 64.4 96.6#



#49
1,4-Dioxane
Concen: 28440.879 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.05 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#



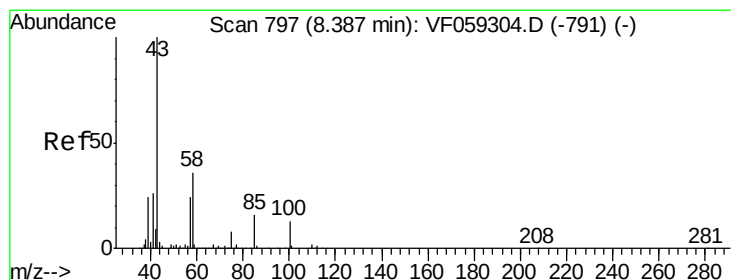
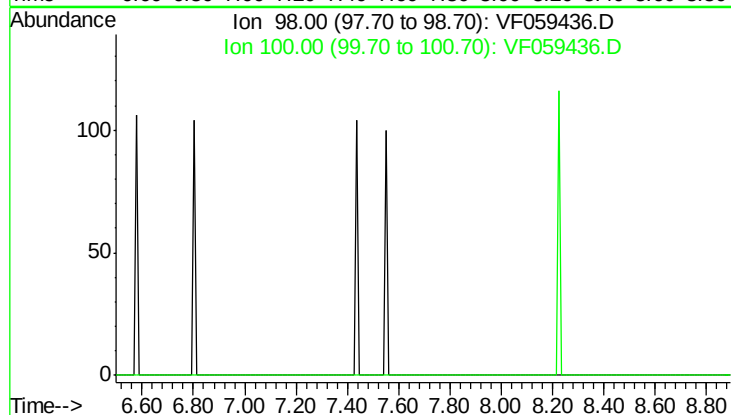


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.70 min

Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

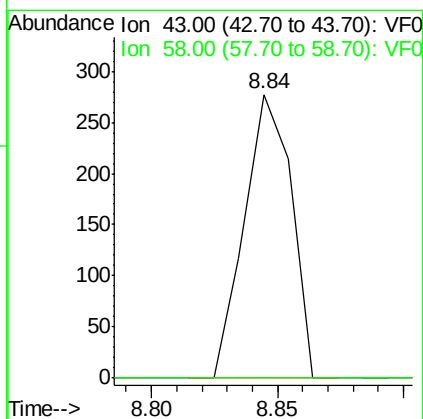
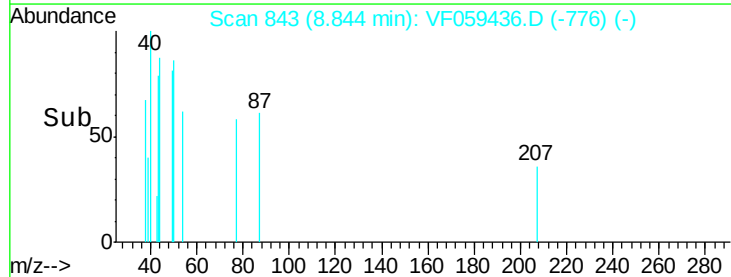
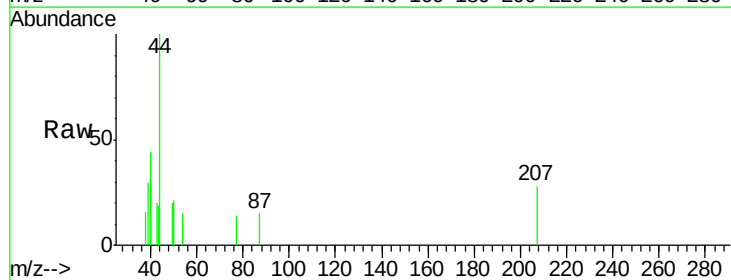
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-BRE

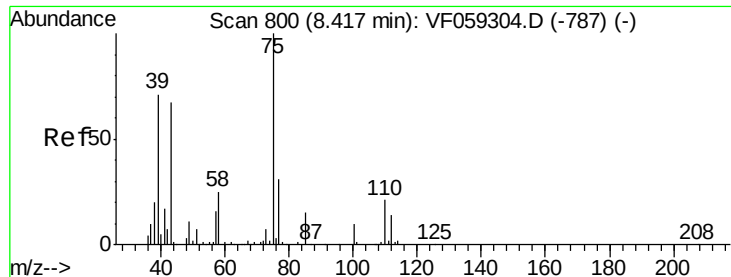
Tot Ion: 98
Sig Exp Ratio
98 100
100 68.3



#51
4-Methyl-2-Pentanone
Concen: 718.069 ug/l
RT: 8.84 min Scan# 843
Delta R.T. 0.46 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion: 43 Resp: 360
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#





#53

t-1,3-Dichloropropene

Concen: 72.036 ug/l

RT: 8.82 min Scan# 841

Delta R.T. 0.41 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

Instrument :

MSVOA_F

ClientSampleId :

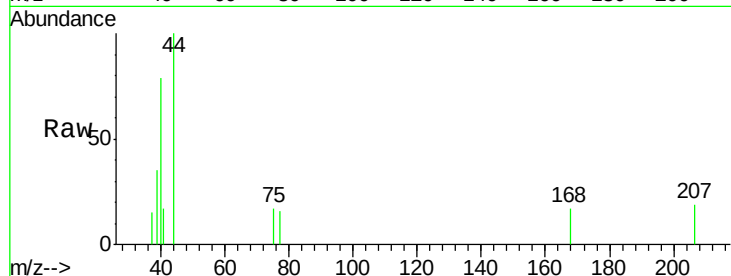
FK-GF-03-005-BRE

Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

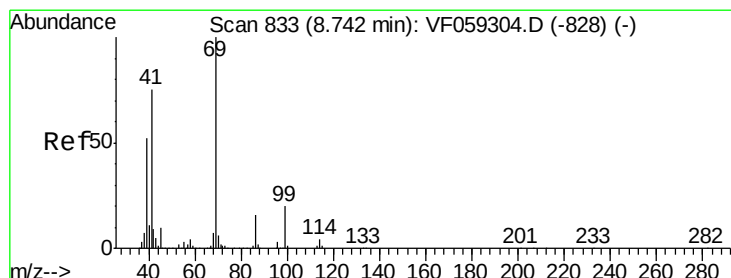
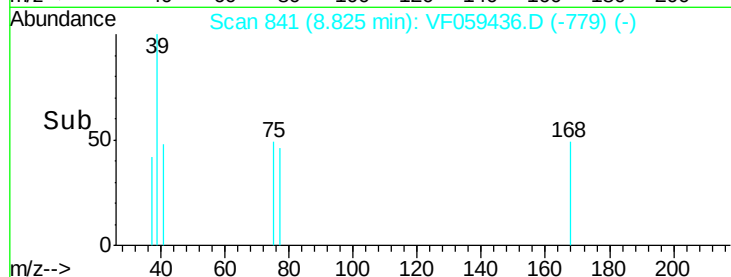
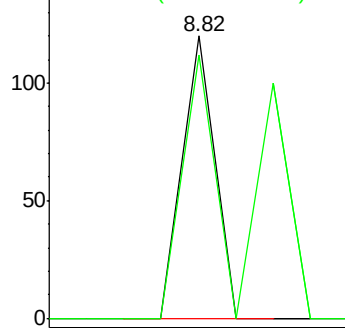
75 100

77 93.3 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#56

Ethyl methacrylate

Concen: 92.549 ug/l

RT: 9.30 min Scan# 889

Delta R.T. 0.56 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

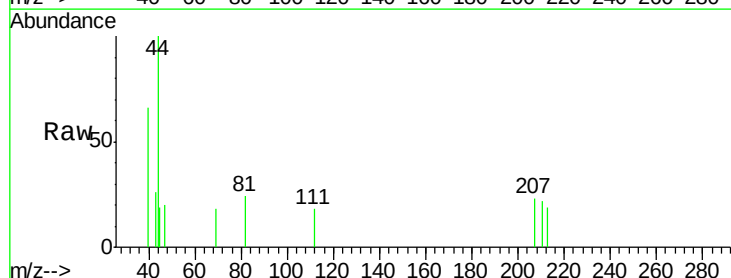
Tgt Ion: 69 Resp: 60

Ion Ratio Lower Upper

69 100

41 0.0 60.3 90.5#

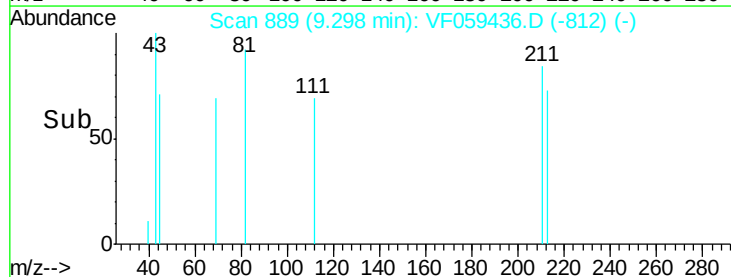
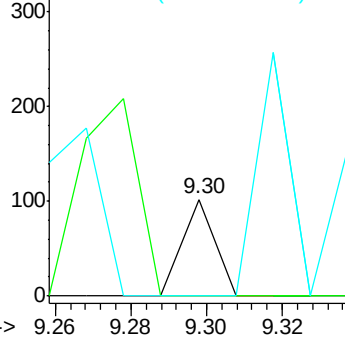
39 0.0 42.2 63.4#

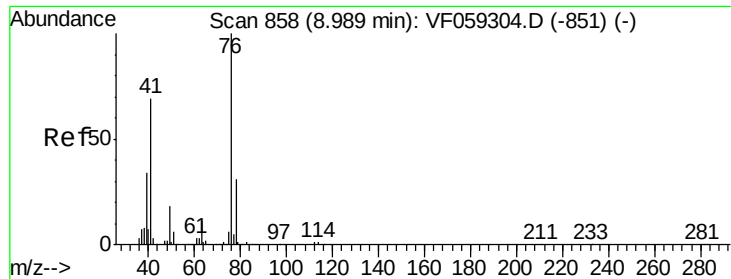


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

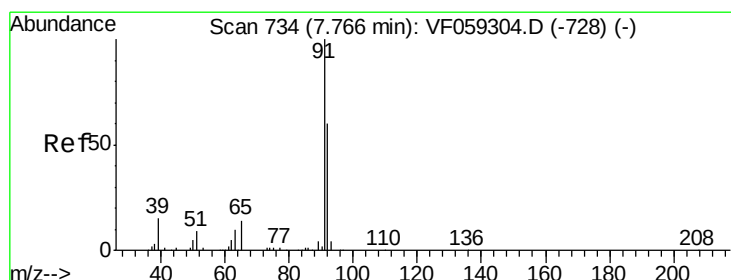
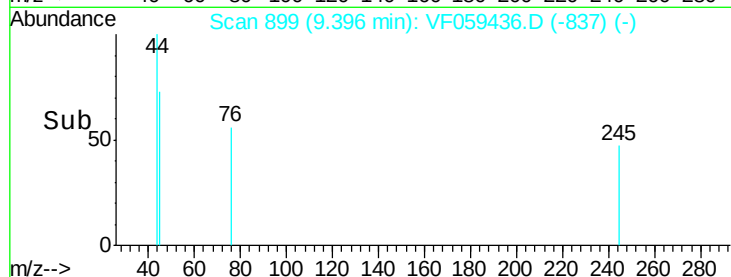
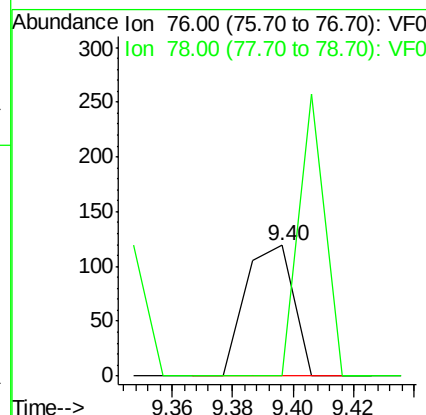
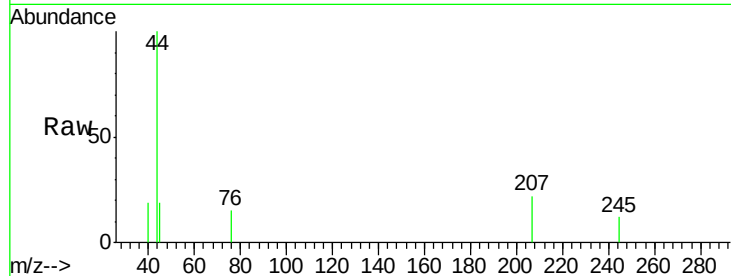




#57
 1,3-Dichloropropane
 Concen: 147.067 ug/l
 RT: 9.40 min Scan# 899
 Delta R.T. 0.41 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

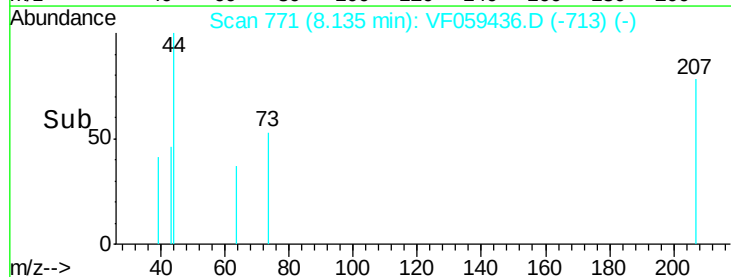
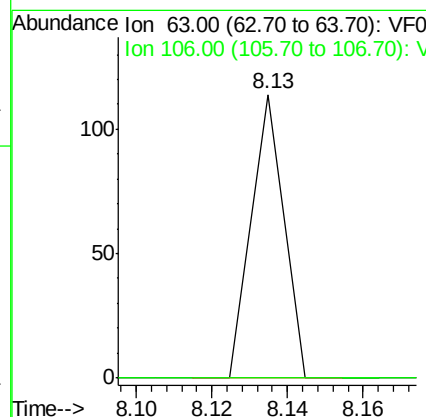
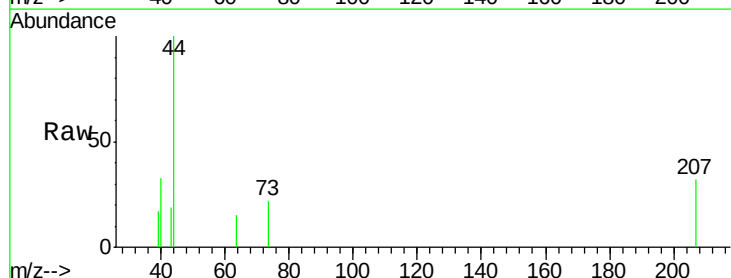
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-BRE

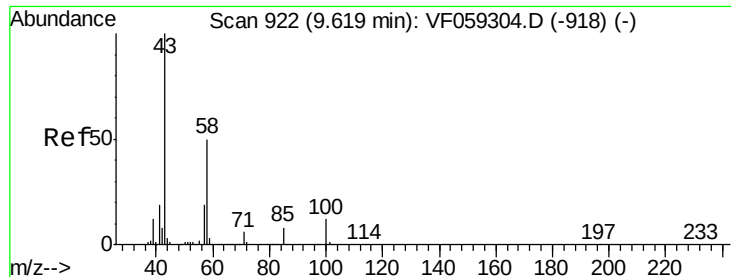
Tot Ion: 76 Resp: 132
 Ion Ratio Lower Upper
 76 100
 78 0.0 24.9 37.3#



#58
 2-Chloroethyl Vinyl ether
 Concen: 1377.978 ug/l
 RT: 8.13 min Scan# 771
 Delta R.T. 0.37 min
 Lab File: VF059436.D
 Acq: 5 Jul 2018 16:12

Tgt Ion: 63 Resp: 67
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

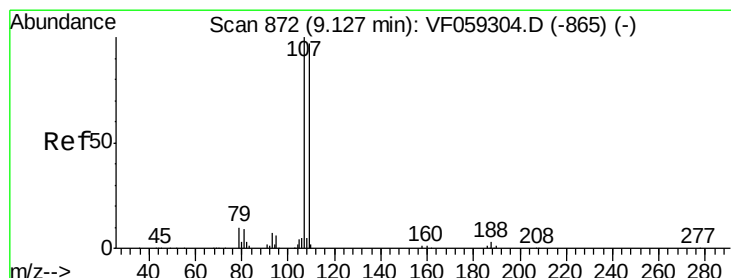
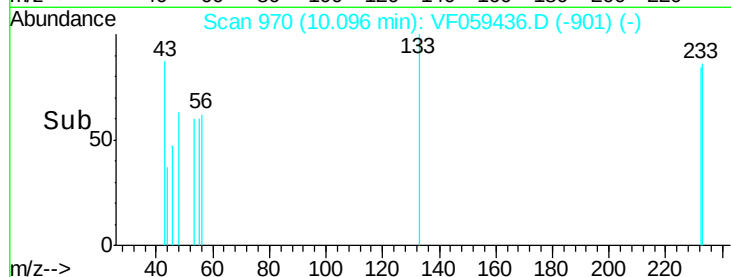
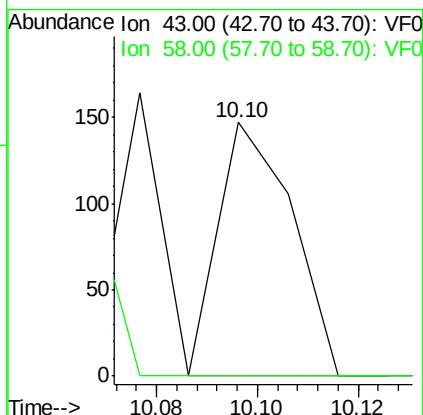
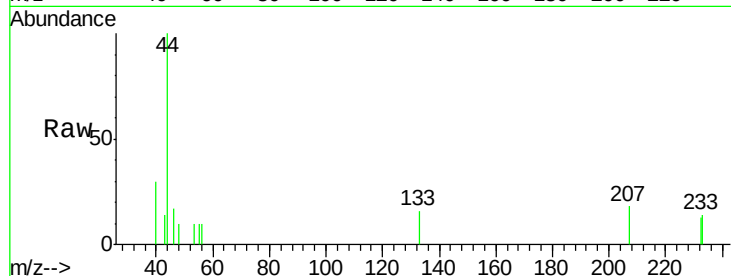




#59
2-Hexanone
Concen: 409.006 ug/l
RT: 10.10 min Scan# 970
Delta R.T. 0.48 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

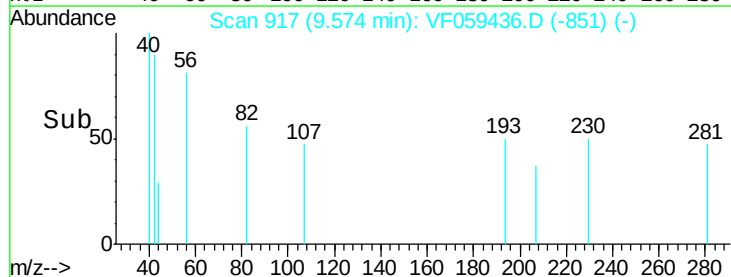
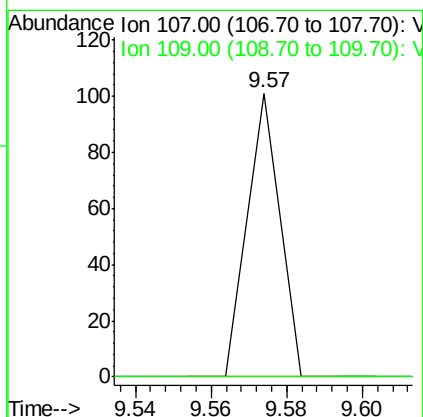
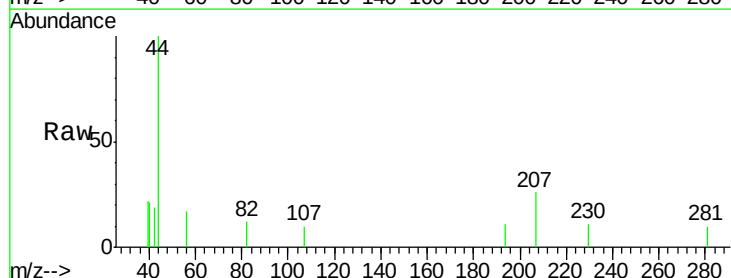
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-BRE

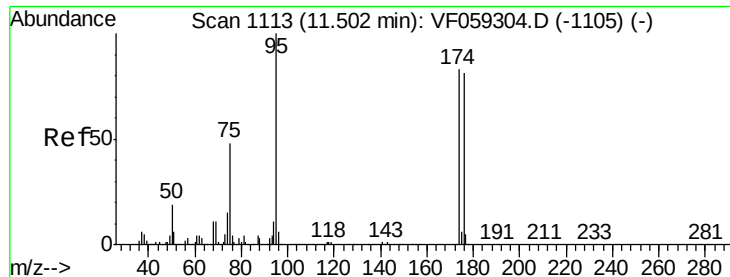
Tot Ion: 43 Resp: 150
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#61
1,2-Dibromoethane
Concen: 94.533 ug/l
RT: 9.57 min Scan# 917
Delta R.T. 0.45 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion: 107 Resp: 60
Ion Ratio Lower Upper
107 100
109 0.0 77.3 115.9#





#62

4-Bromofluorobenzene

Concen: 67.436 ug/l

RT: 12.03 min Scan# 1166

Delta R.T. 0.53 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-BRE

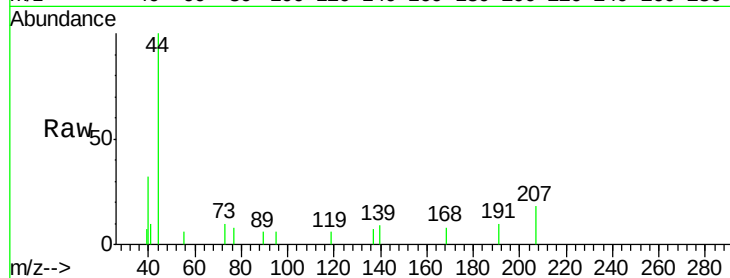
Tot Ion: 95 Resp: 64

Ion Ratio Lower Upper

95 100

174 0.0 0.0 165.2

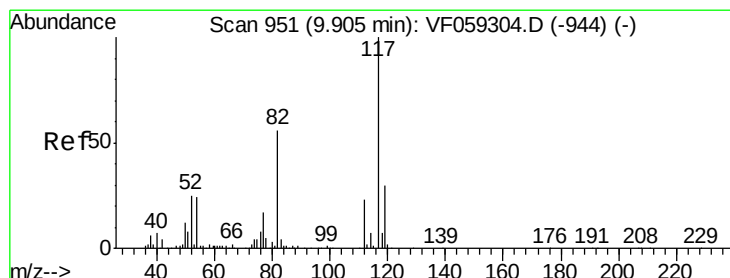
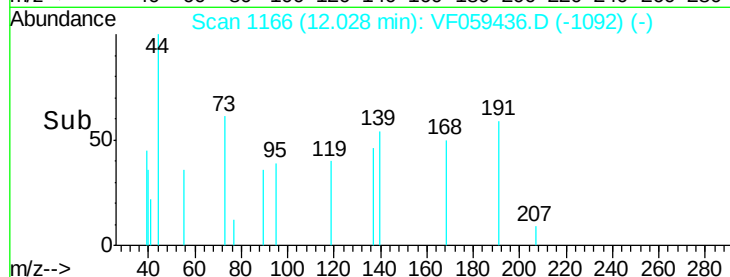
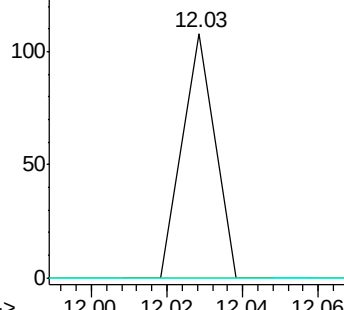
176 0.0 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.38 min Scan# 999

Delta R.T. 0.48 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

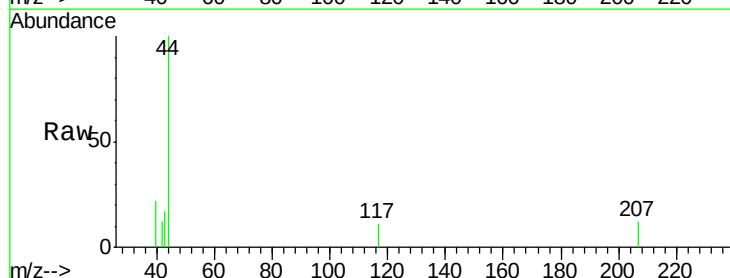
Tgt Ion: 117 Resp: 61

Ion Ratio Lower Upper

117 100

82 0.0 44.6 66.8#

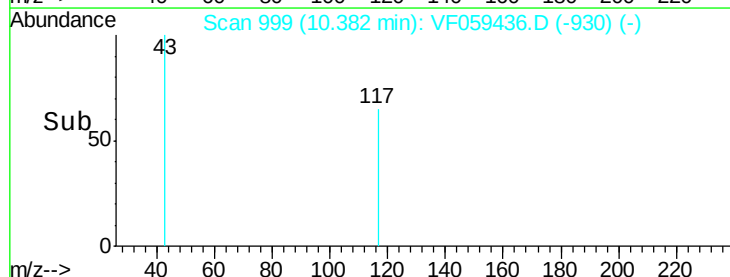
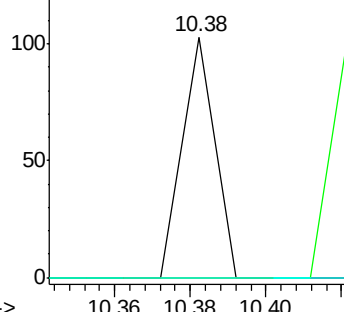
119 0.0 24.1 36.1#

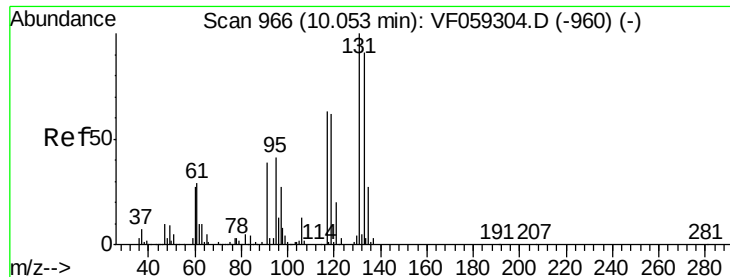


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 120.685 ug/l

RT: 9.98 min Scan# 958

Delta R.T. -0.08 min

Lab File: VF059436.D

Acq: 5 Jul 2018 16:12

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-BRE

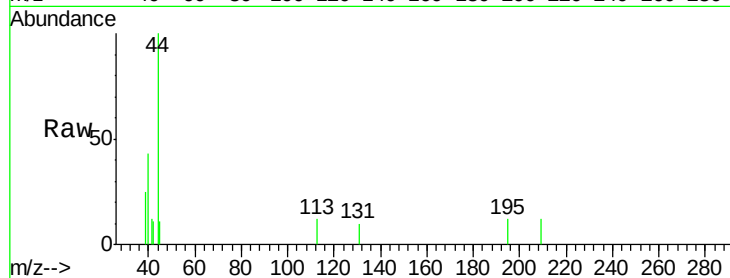
Tot Ion:131 Resp: 59

Ion Ratio Lower Upper

131 100

133 0.0 45.3 135.9#

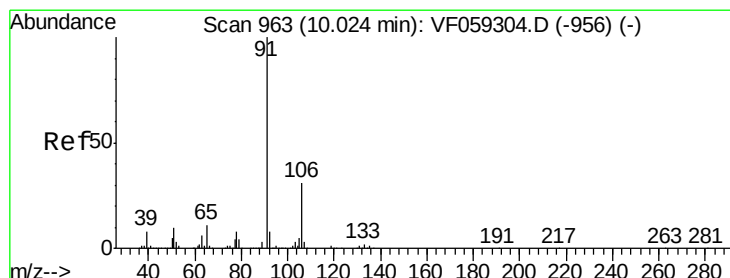
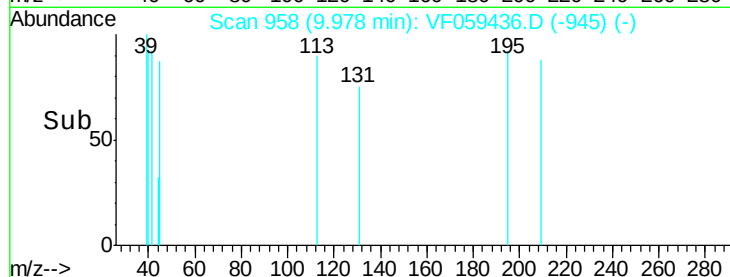
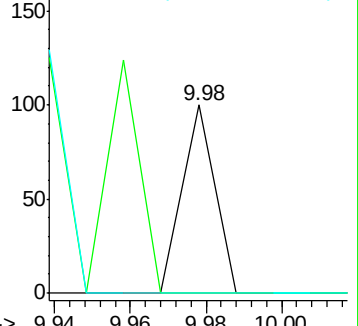
119 0.0 31.3 93.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 36.505 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.04 min

Lab File: VF059436.D

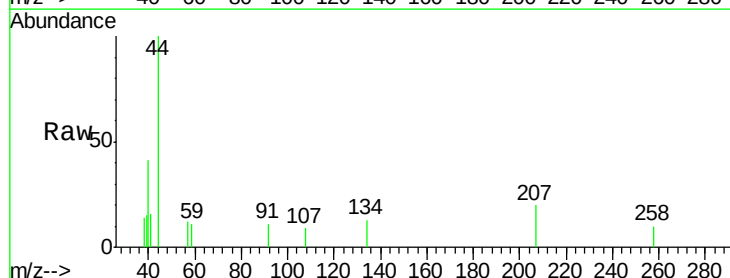
Acq: 5 Jul 2018 16:12

Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

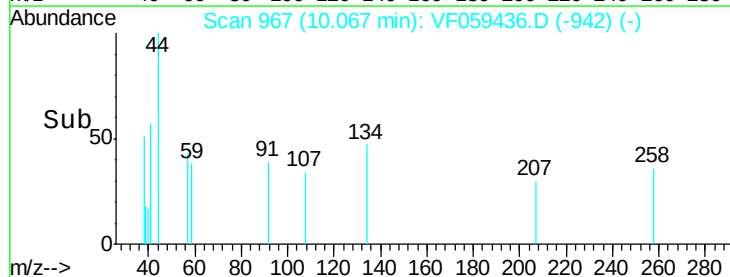
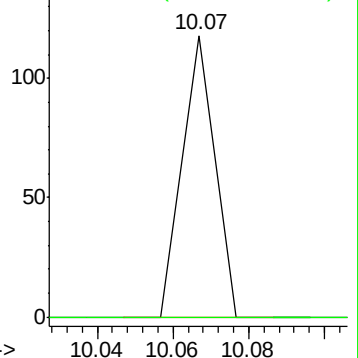
91 100

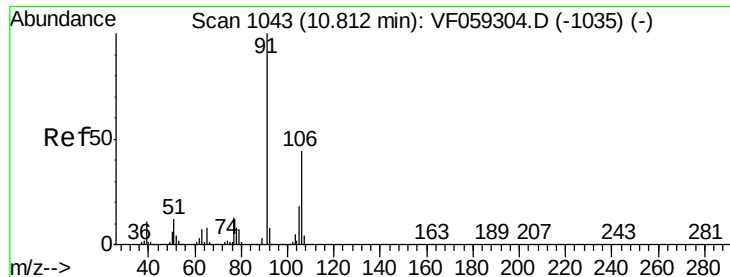
106 0.0 24.8 37.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

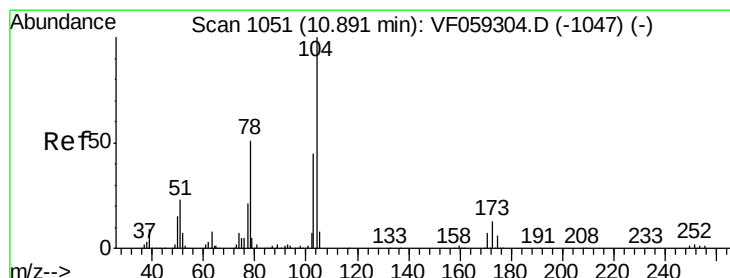
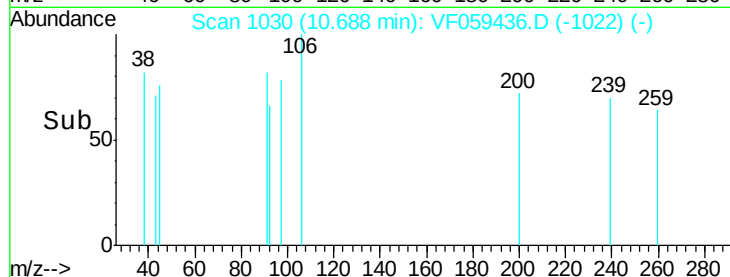
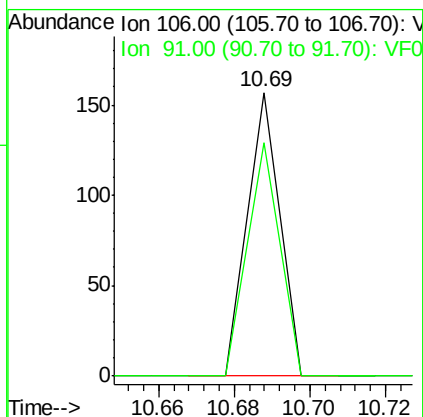
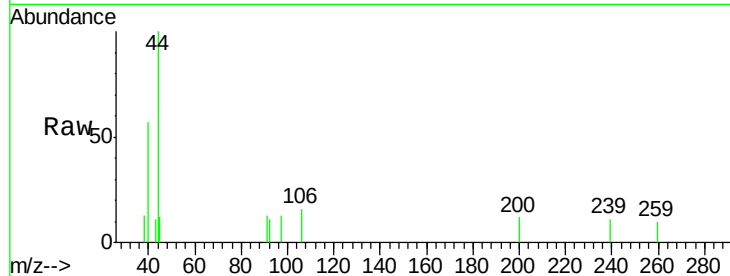




#69
o-Xylene
Concen: 121.824 ug/l
RT: 10.69 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

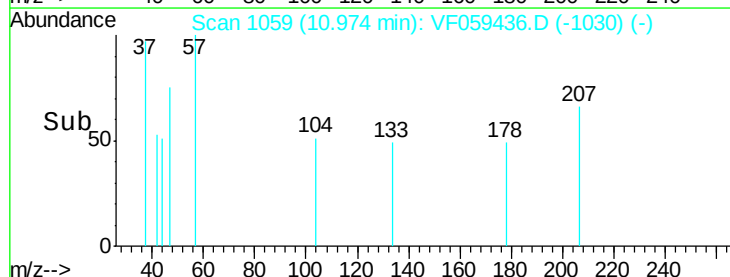
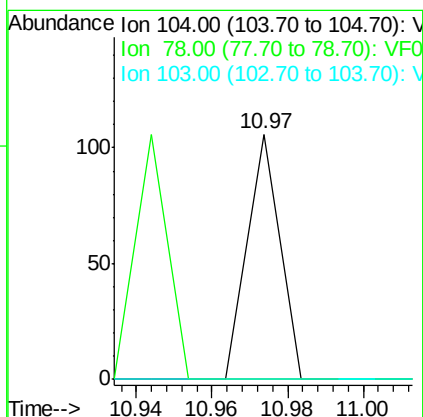
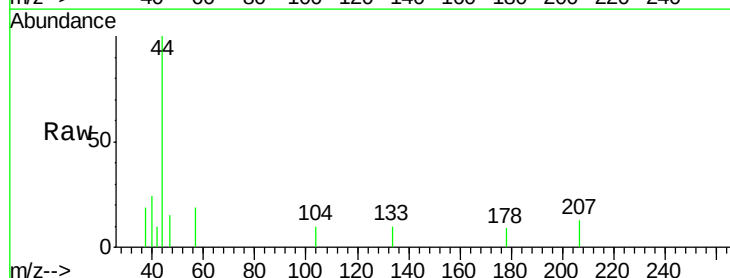
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-BRE

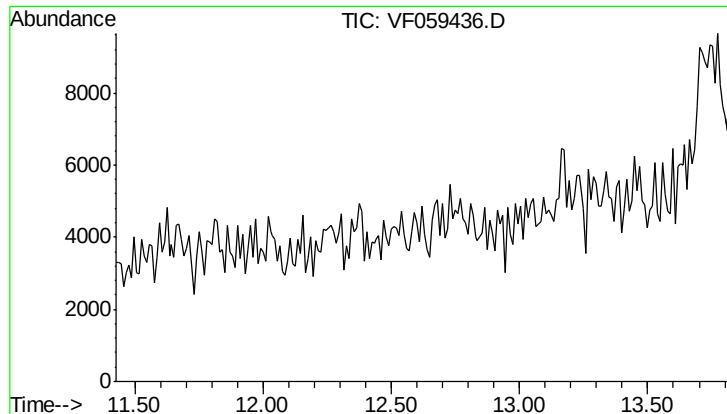
Tot Ion:106 Resp: 93
Ion Ratio Lower Upper
106 100
91 82.2 114.6 343.6#



#70
Styrene
Concen: 54.176 ug/l
RT: 10.97 min Scan# 1059
Delta R.T. 0.08 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Tgt Ion:104 Resp: 63
Ion Ratio Lower Upper
104 100
78 0.0 40.9 61.3#
103 0.0 36.5 54.7#





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 12.63 min
Lab File: VF059436.D
Acq: 5 Jul 2018 16:12

Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-BRE

Tot Ion:	152
Sig	Exp Ratio
152	100
115	54.2
150	152.6

