

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\
 Data File : VF062001.D
 Acq On : 18 Mar 2019 17:01
 Operator : VA/AP
 Sample : K1951-04
 Misc : 6.53g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-006-B

Quant Time: Mar 19 01:23:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	21258	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	24126	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	14284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	3456	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	3432	22.43	ug/l	0.00
Spiked Amount			Recovery	=	44.86%	
35) Dibromofluoromethane	4.10	113	6002	37.05	ug/l	0.00
Spiked Amount			Recovery	=	74.10%	
50) Toluene-d8	7.54	98	20635	43.57	ug/l	-0.02
Spiked Amount			Recovery	=	87.14%	
62) 4-Bromofluorobenzene	11.40	95	4652	24.73	ug/l	0.00
Spiked Amount			Recovery	=	49.46%	

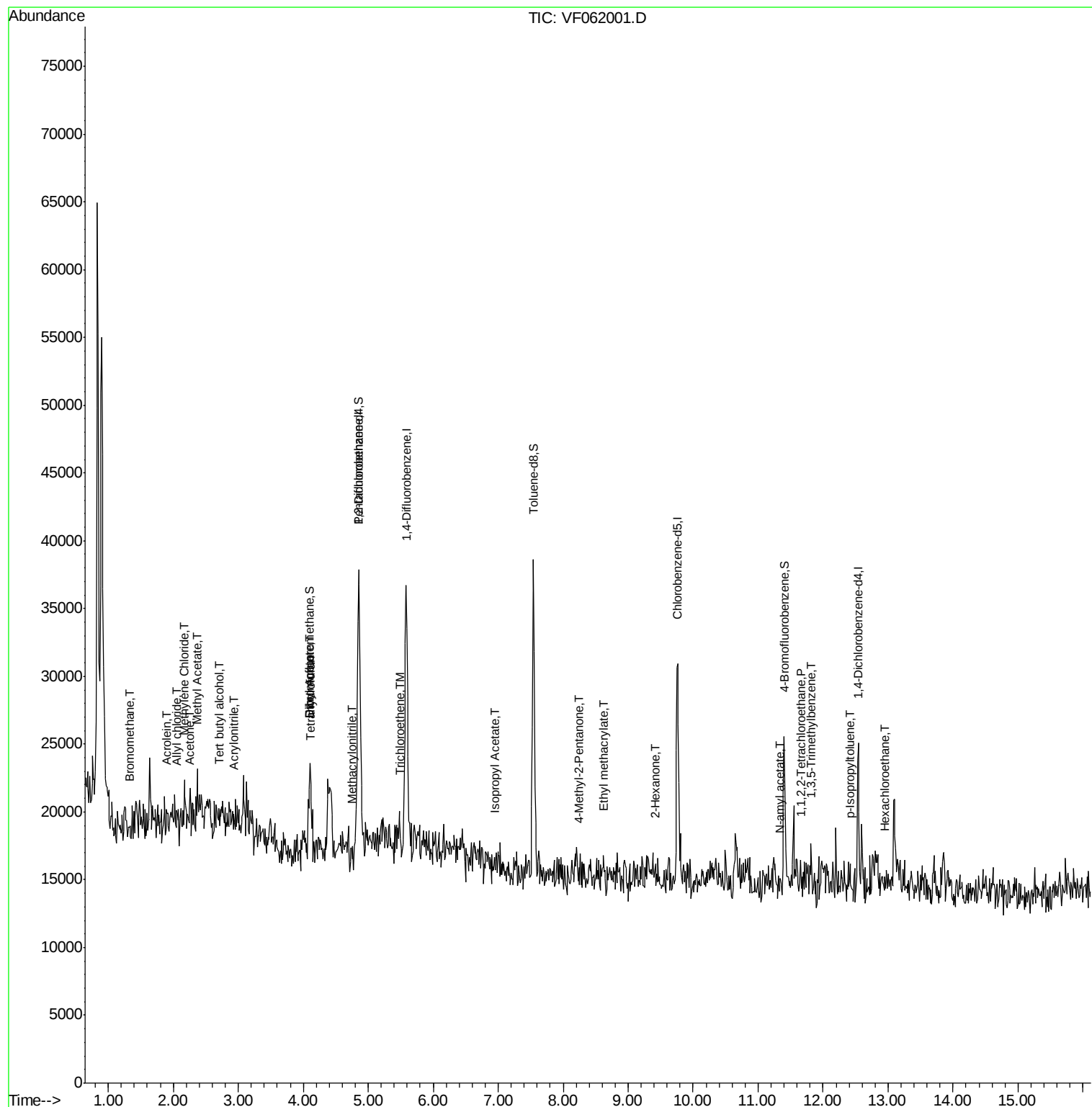
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.32	94	338	2.160	ug/l #	3
11) Tert butyl alcohol	2.71	59	75	8.010	ug/l #	71
13) Acrolein	1.89	56	208	20.577	ug/l	100
14) Allyl chloride	2.05	41	516	2.253	ug/l #	17
15) Acrylonitrile	2.93	53	344	12.081	ug/l #	36
16) Acetone	2.24	43	516	15.017	ug/l #	83
18) Methyl Acetate	2.37	43	2454	34.908	ug/l #	63
20) Methylene Chloride	2.17	84	524	2.962	ug/l #	39
29) Tetrahydrofuran	4.12	42	267	9.022	ug/l #	33
37) Ethyl Acetate	4.11	43	183	1.871	ug/l #	19
41) Methacrylonitrile	4.74	41	68	1.301	ug/l #	22
43) Isopropyl Acetate	6.95	43	428	3.698	ug/l #	38
44) Trichloroethene	5.49	130	410	2.318	ug/l	4
51) 4-Methyl-2-Pentanone	8.25	43	165	2.008	ug/l #	36
56) Ethyl methacrylate	8.61	69	363	3.244	ug/l #	24
59) 2-Hexanone	9.43	43	378	6.355	ug/l #	23
74) N-amyl acetate	11.34	43	202	3.692	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	11.67	83	156	3.958	ug/l #	22
80) 1,3,5-Trimethylbenzene	11.81	105	1283	6.652	ug/l	94
86) p-Isopropyltoluene	12.42	119	969	4.261	ug/l #	74
90) Hexachloroethane	12.95	117	95	1.831	ug/l #	18

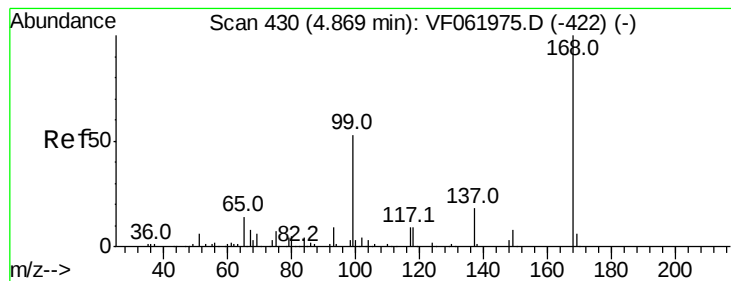
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

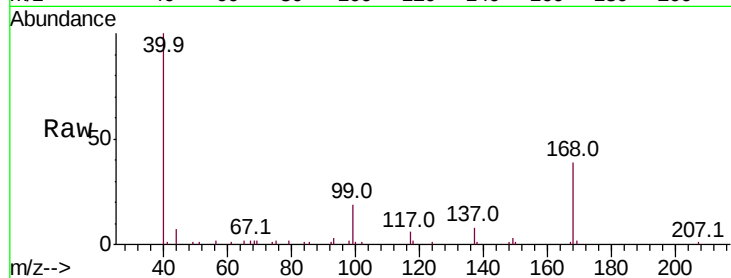
FK-GF-03-006-B

Tot Ion:168 Resp: 21258

Ion Ratio Lower Upper

168 100

99 50.0 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

6000

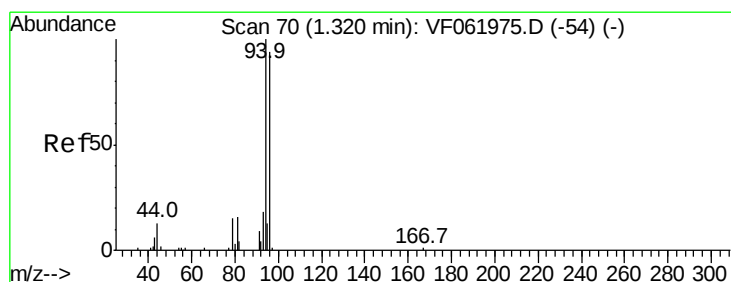
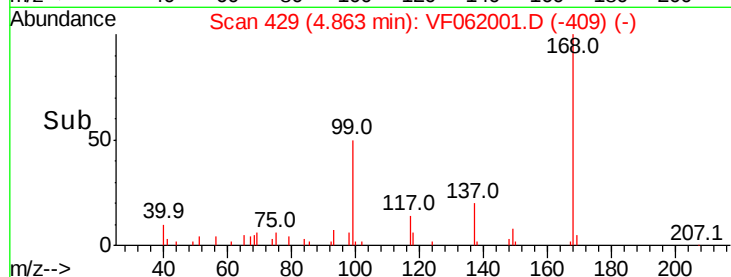
4000

2000

0

4.80 4.90 5.00

Time-->



#5

Bromomethane

Concen: 2.160 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF062001.D

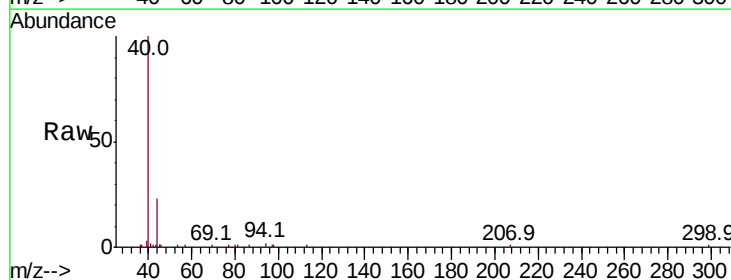
Acq: 18 Mar 2019 17:01

Tgt Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

300

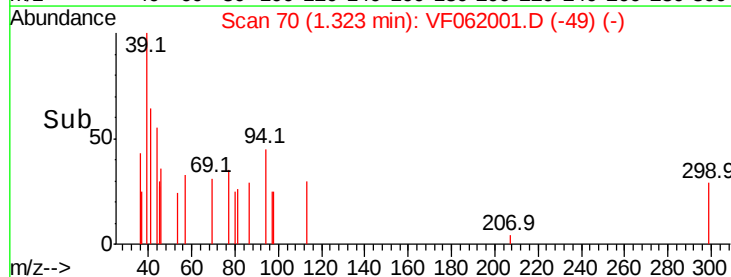
200

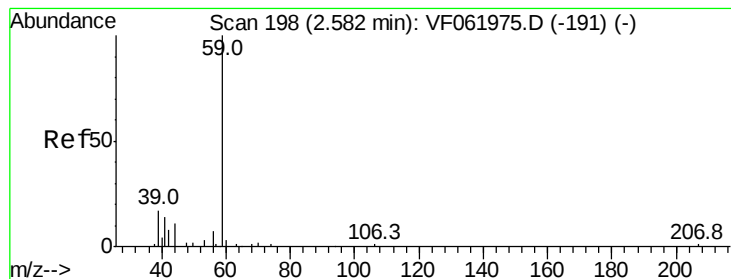
100

0

1.30 1.32 1.34 1.36 1.38

Time-->



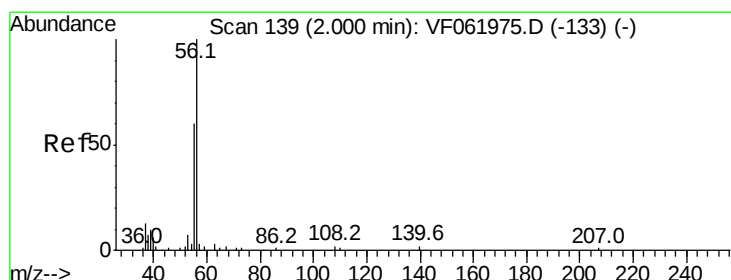
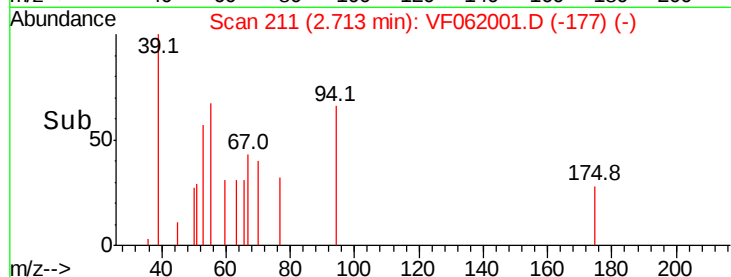
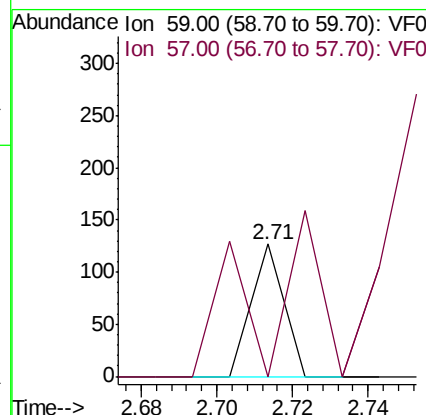
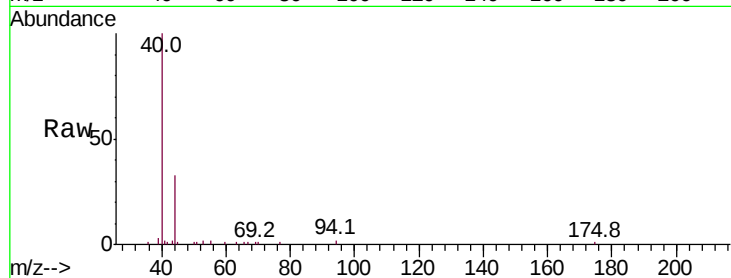


#11

Tert butyl alcohol
Concen: 8.010 ug/l
RT: 2.71 min Scan# 211
Delta R.T. 0.13 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-006-B

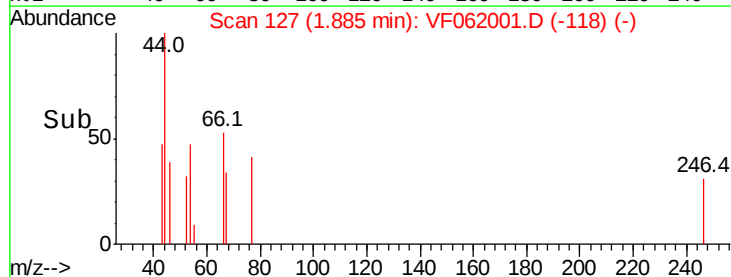
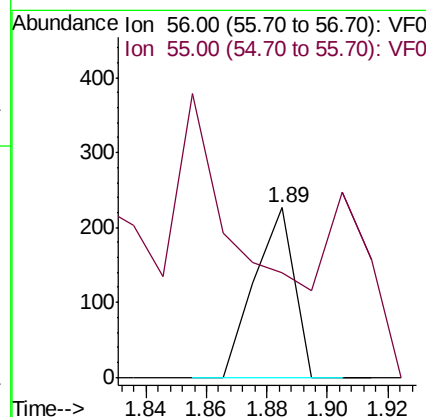
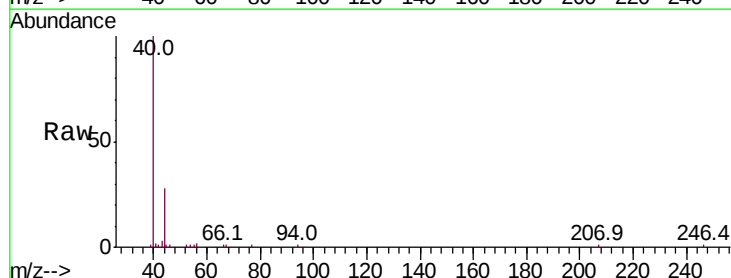
Tot Ion: 59 Resp: 75
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

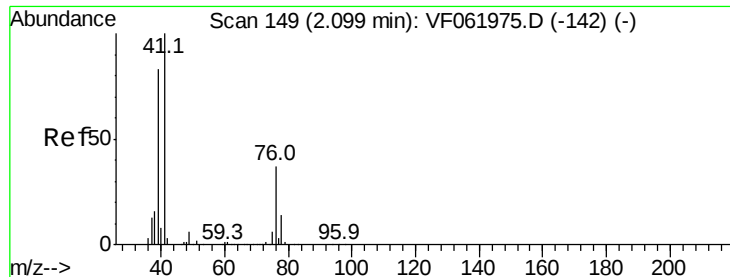


#13

Acrolein
Concen: 20.577 ug/l
RT: 1.89 min Scan# 127
Delta R.T. -0.11 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

Tgt Ion: 56 Resp: 208
Ion Ratio Lower Upper
56 100
55 61.5 49.1 73.7

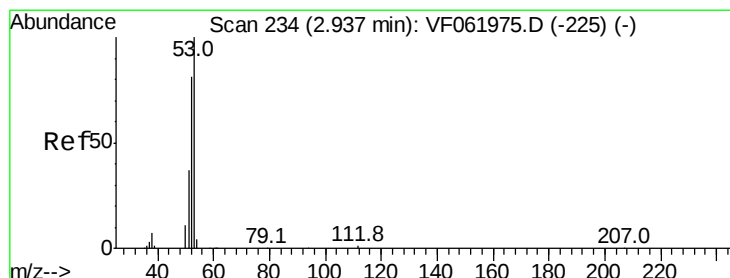
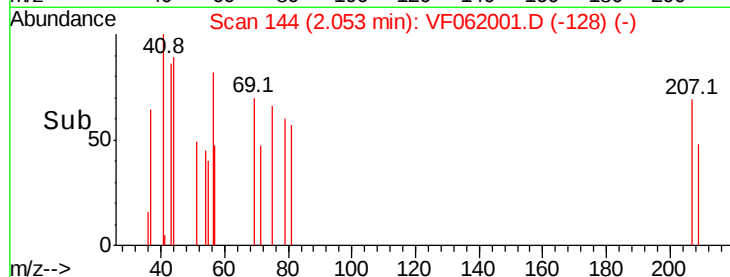
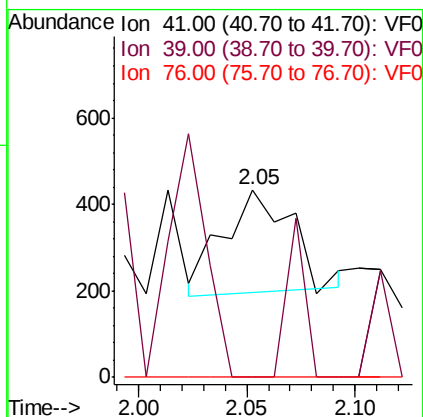
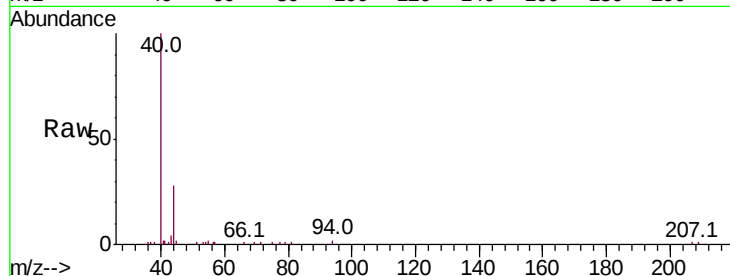




#14
Allvl chloride
Concen: 2.253 ug/l
RT: 2.05 min Scan# 144
Delta R.T. -0.05 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

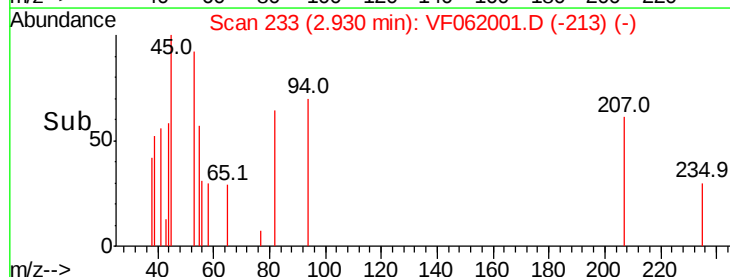
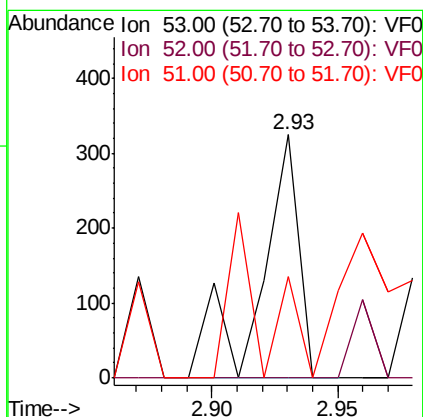
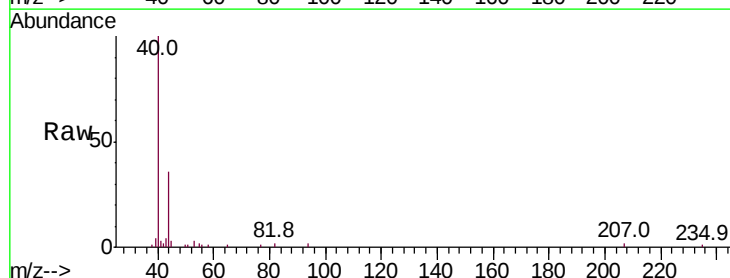
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-006-B

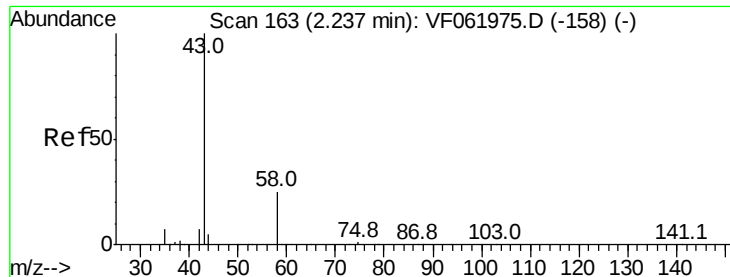
Tot Ion: 41 Resp: 516
Ion Ratio Lower Upper
41 100
39 0.0 66.8 100.2#
76 0.0 31.1 46.7#



#15
Acrylonitrile
Concen: 12.081 ug/l
RT: 2.93 min Scan# 233
Delta R.T. -0.01 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

Tgt Ion: 53 Resp: 344
Ion Ratio Lower Upper
53 100
52 0.0 64.4 96.6#
51 41.8 30.3 45.5





#16

Acetone

Concen: 15.017 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

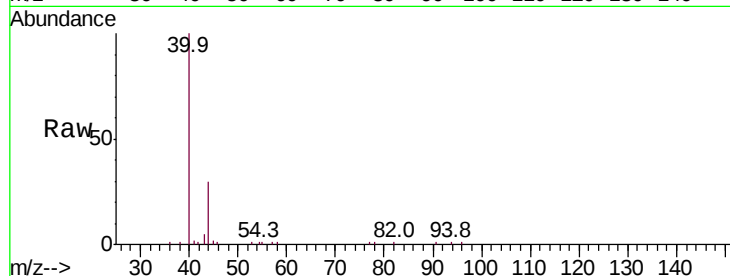
FK-GF-03-006-B

Tot Ion: 43 Resp: 516

Ion Ratio Lower Upper

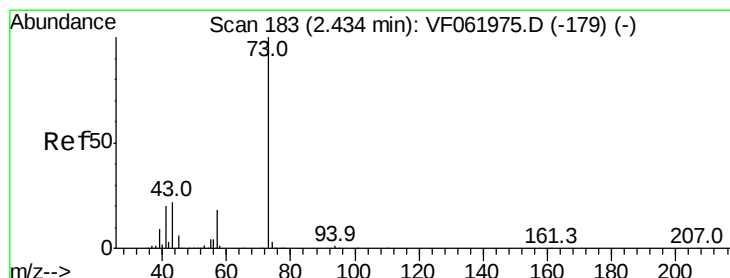
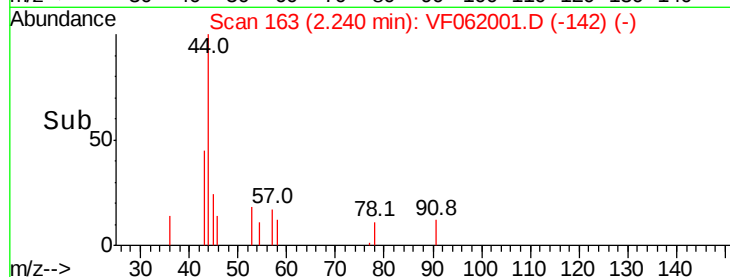
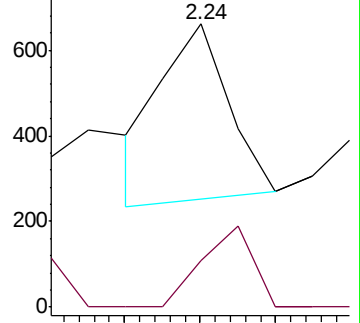
43 100

58 16.3 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 34.908 ug/l

RT: 2.37 min Scan# 176

Delta R.T. -0.07 min

Lab File: VF062001.D

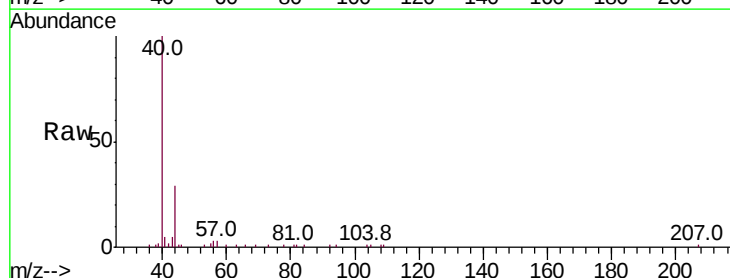
Acq: 18 Mar 2019 17:01

Tgt Ion: 43 Resp: 2454

Ion Ratio Lower Upper

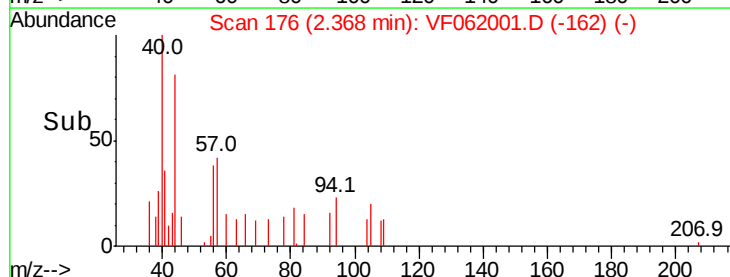
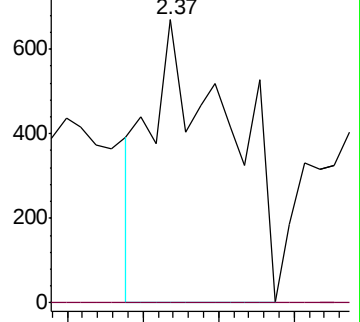
43 100

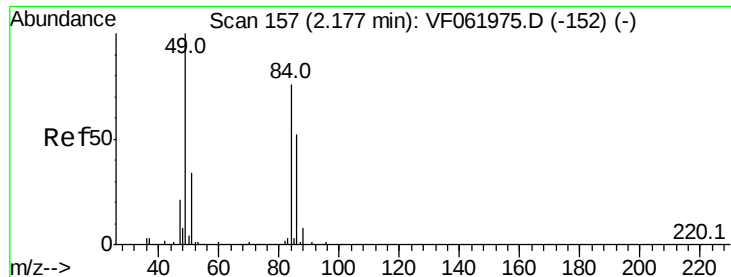
74 0.0 12.6 18.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#20

Methylene Chloride

Concen: 2.962 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-006-B

Tot Ion: 84 Resp: 524

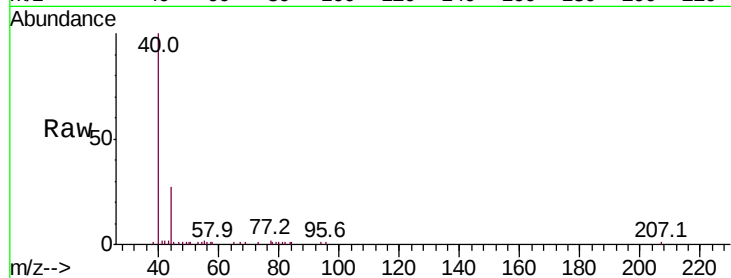
Ion Ratio Lower Upper

84 100

49 56.7 107.0 160.6#

51 56.1 37.2 55.8#

86 0.0 55.3 82.9#



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

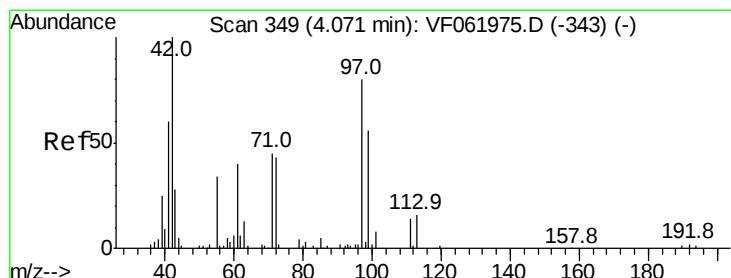
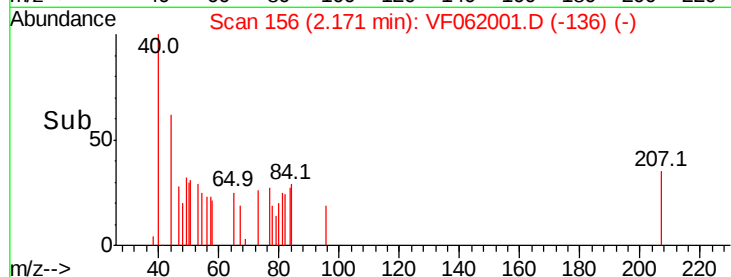
Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

2.17

2.20

Time-->



#29

Tetrahydrofuran

Concen: 9.022 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.05 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

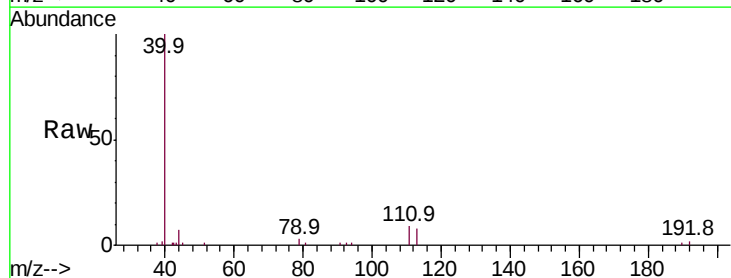
Tgt Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

71 0.0 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

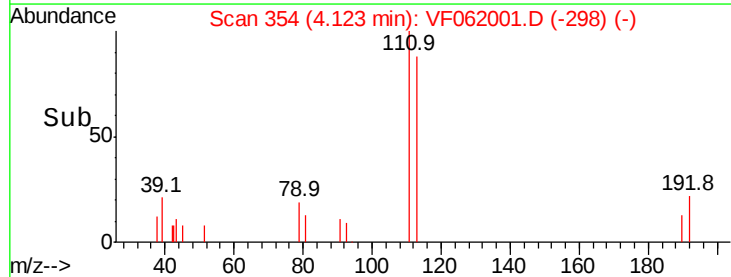
Ion 72.00 (71.70 to 72.70): VF0

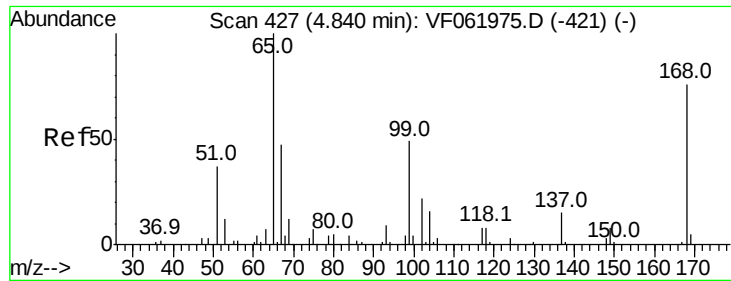
Ion 71.00 (70.70 to 71.70): VF0

4.12

4.15

Time-->

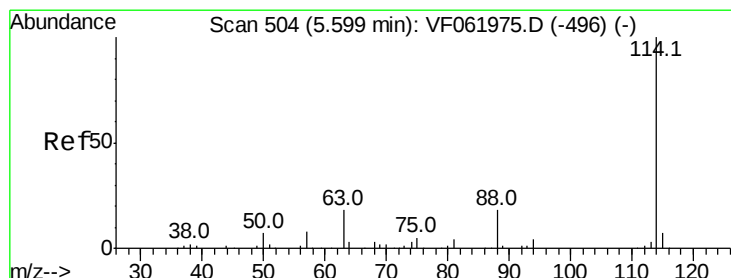
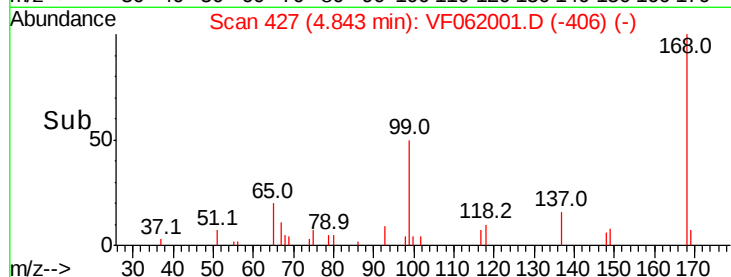
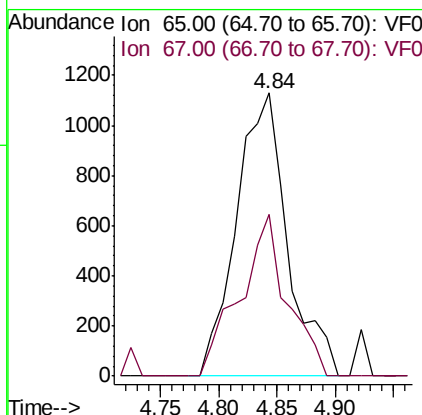
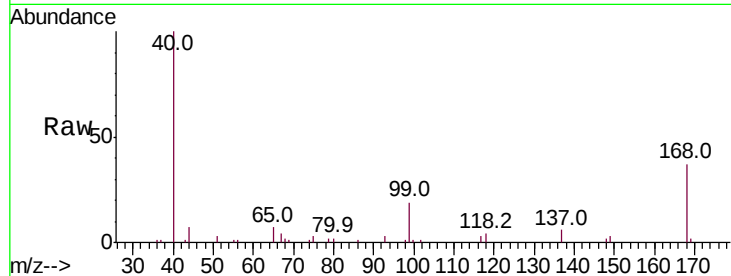




#33
 1,2-Dichloroethane-d4
 Concen: 22.428 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.00 min
 Lab File: VF062001.D
 Acq: 18 Mar 2019 17:01

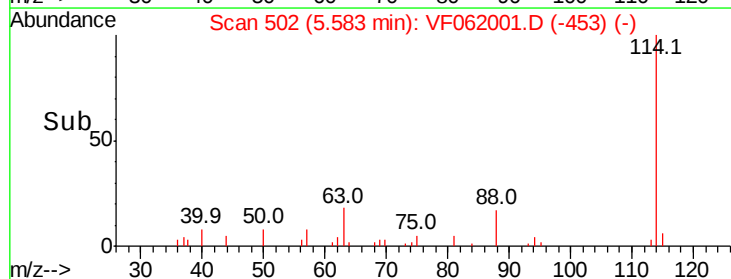
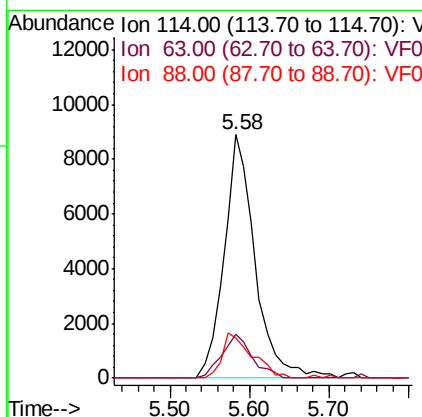
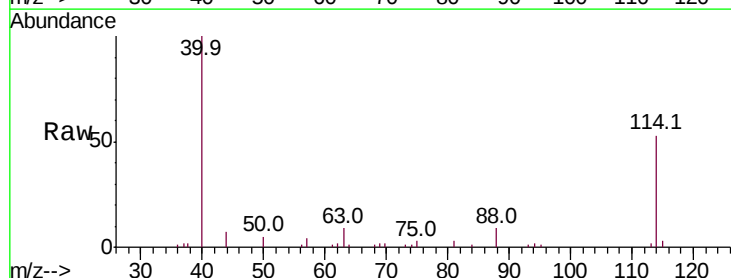
Instrument :
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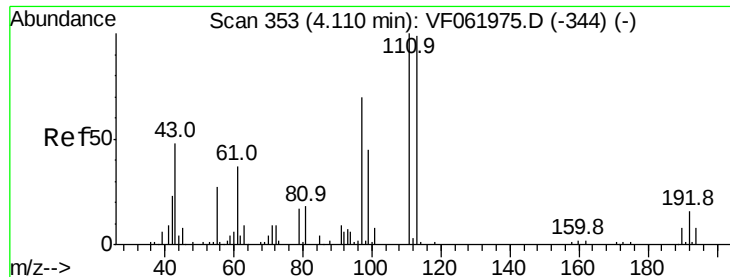
Tot Ion: 65 Resp: 3432
 Ion Ratio Lower Upper
 65 100
 67 57.0 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF062001.D
 Acq: 18 Mar 2019 17:01

Tgt Ion: 114 Resp: 24126
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 36.4
 88 16.7 0.0 36.4





#35

Dibromofluoromethane

Concen: 37.047 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-006-B

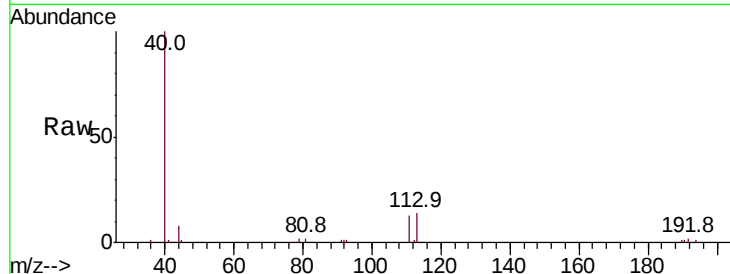
Tot Ion:113 Resp: 6002

Ion Ratio Lower Upper

113 100

111 93.6 80.8 121.2

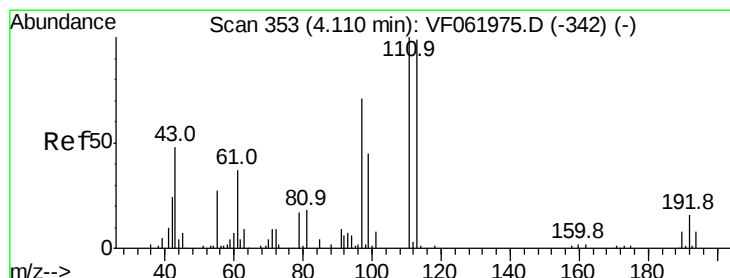
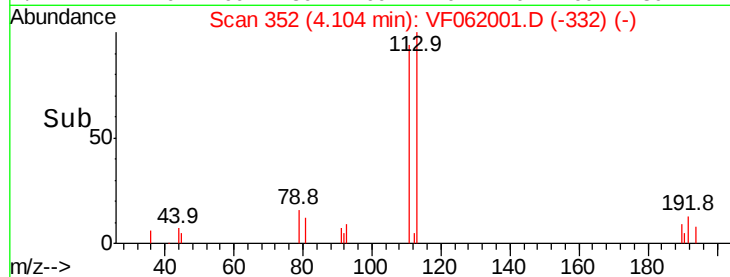
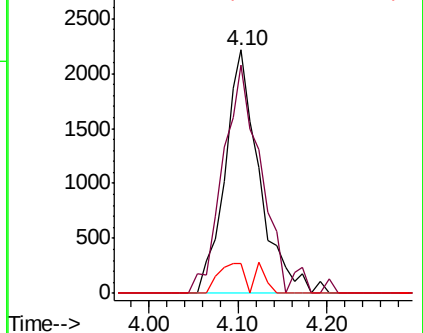
192 12.5 13.0 19.6#



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: 1.871 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

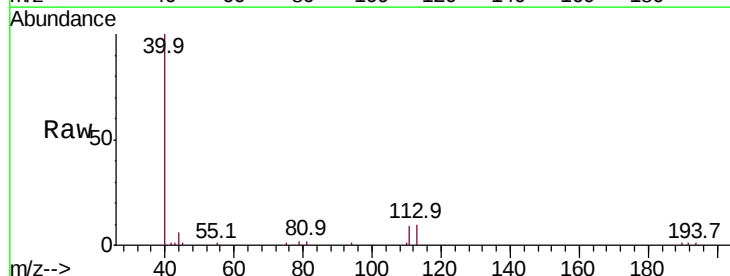
Tgt Ion: 43 Resp: 183

Ion Ratio Lower Upper

43 100

61 0.0 59.8 89.6#

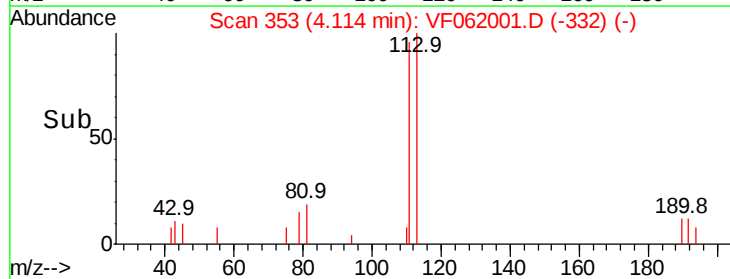
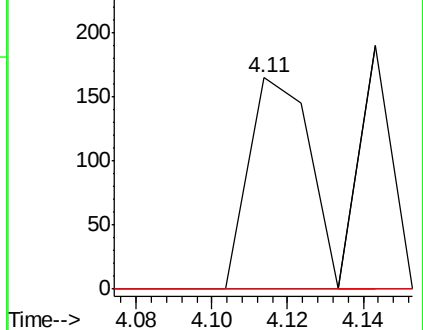
70 0.0 7.8 11.8#

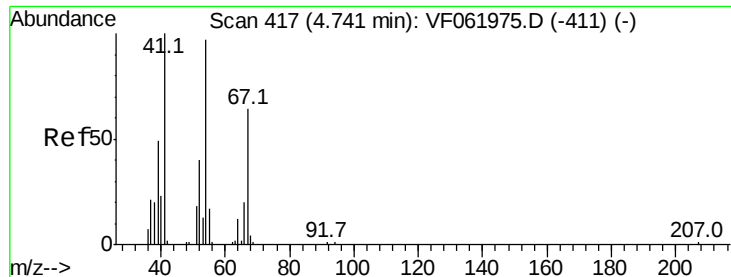


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

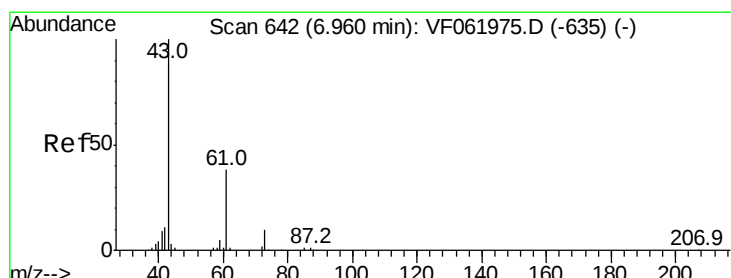
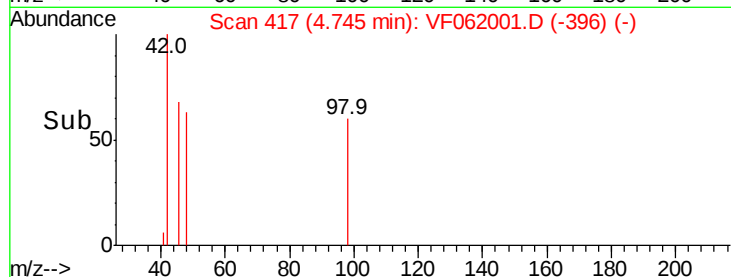
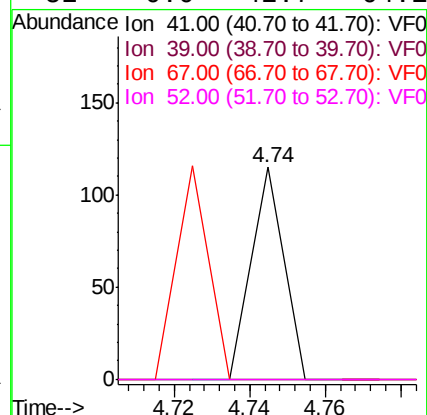
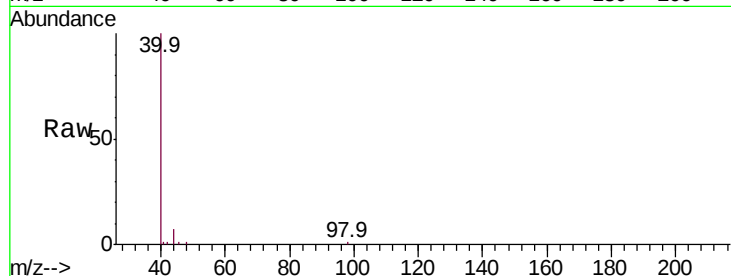




#41
Methacrylonitrile
Concen: 1.301 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.00 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

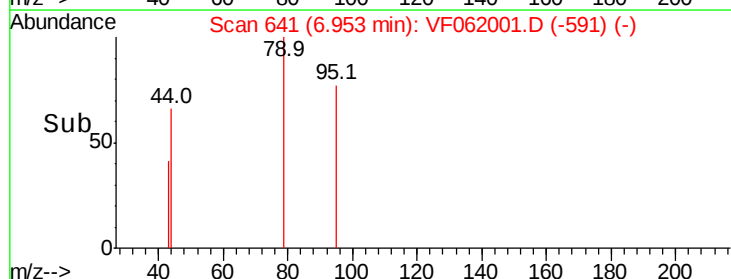
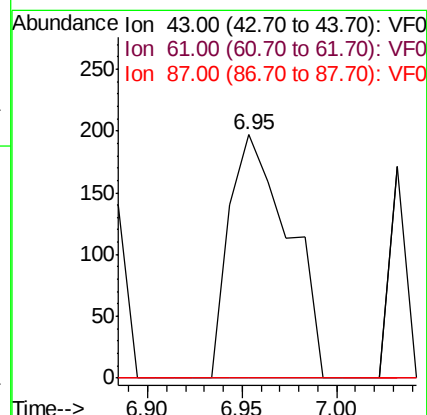
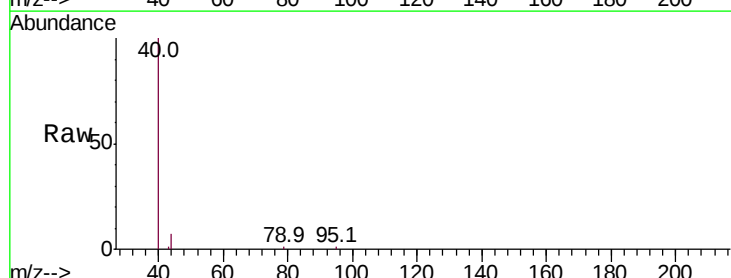
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-006-B

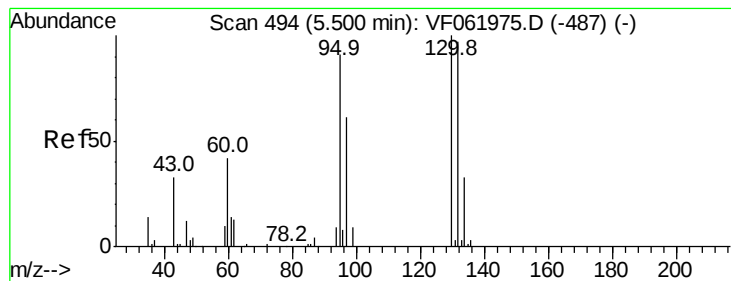
Tot Ion:	41	Resp:	68
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.2	69.4#
67	0.0	49.8	74.8#
52	0.0	42.7	64.1#



#43
Isopropyl Acetate
Concen: 3.698 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.01 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

Tgt Ion:	43	Resp:	428
Ion	Ratio	Lower	Upper
43	100		
61	0.0	30.1	45.1#
87	0.0	0.4	0.6#





#44

Trichloroethene

Concen: 2.318 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

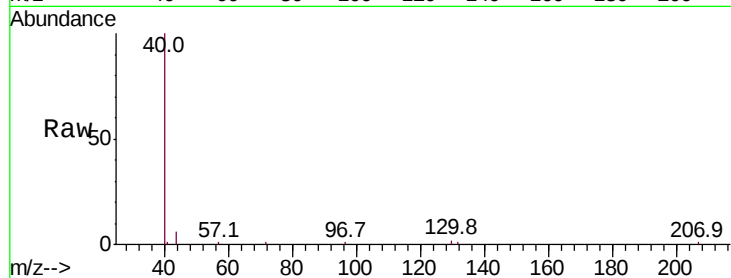
FK-GF-03-006-B

Tot Ion:130 Resp: 410

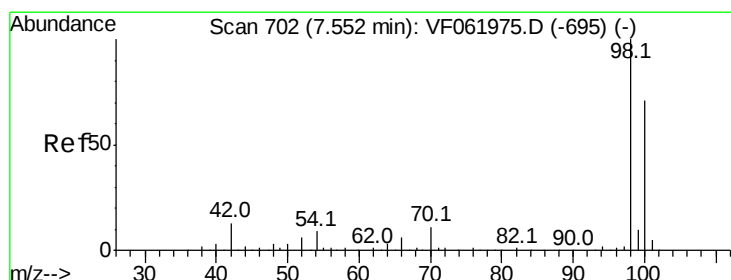
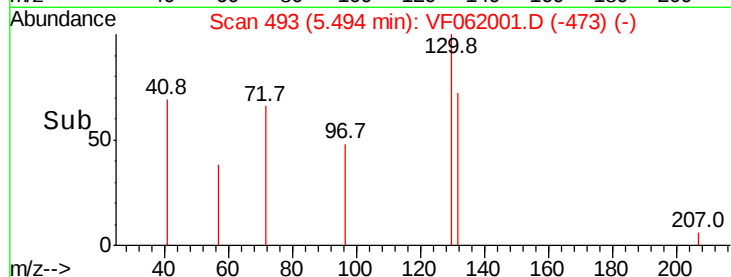
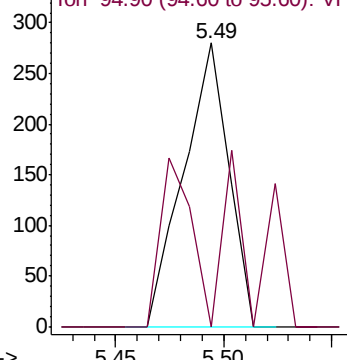
Ion Ratio Lower Upper

130 100

95 0.0 0.0 181.4



Abundance Ion 129.90 (129.60 to 130.60): VF0



#50

Toluene-d8

Concen: 43.570 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF062001.D

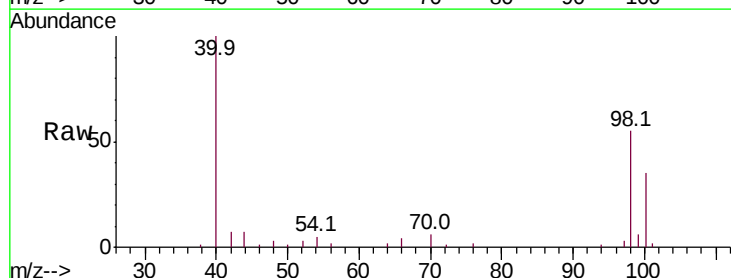
Acq: 18 Mar 2019 17:01

Tgt Ion: 98 Resp: 20635

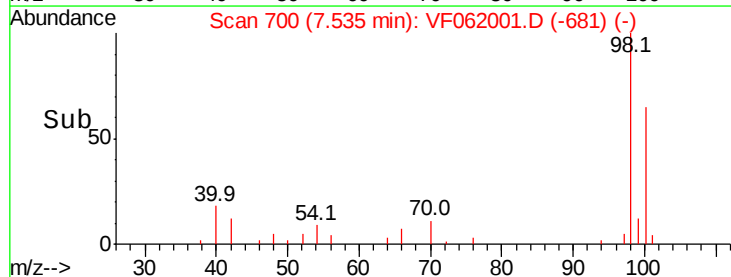
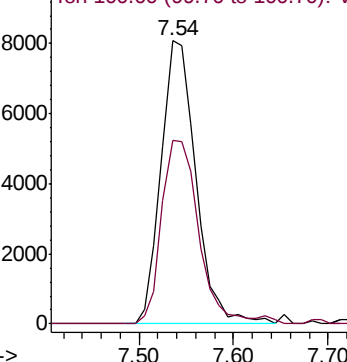
Ion Ratio Lower Upper

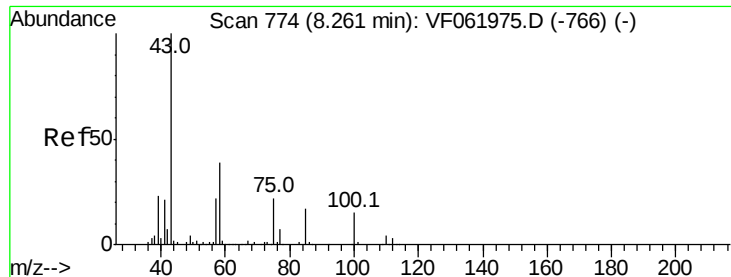
98 100

100 64.9 56.8 85.2



Abundance Ion 98.00 (97.70 to 98.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.008 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

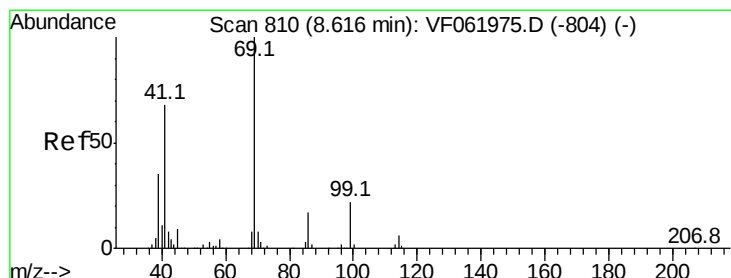
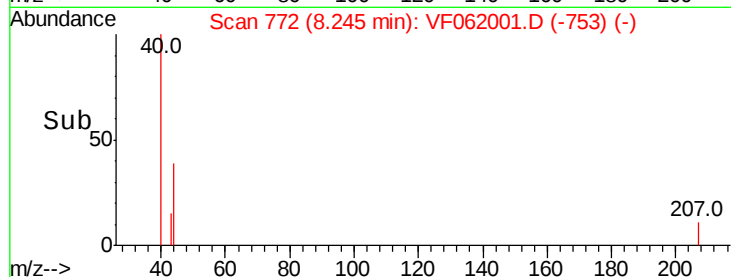
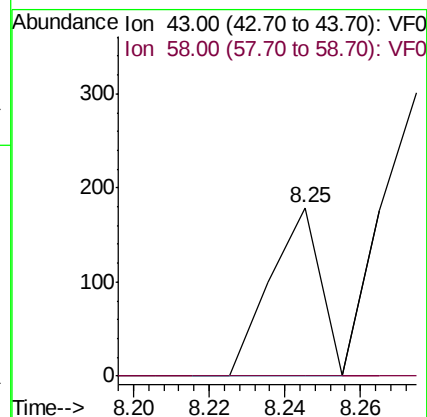
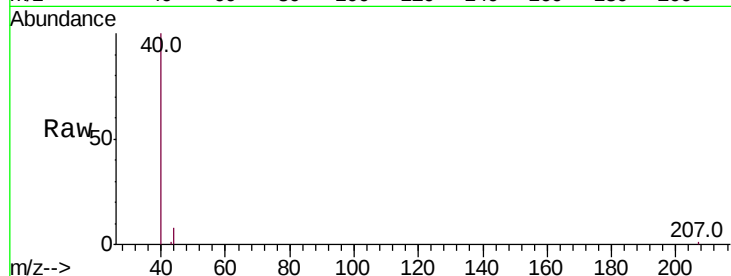
FK-GF-03-006-B

Tot Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

58 0.0 31.1 46.7#



#56

Ethyl methacrylate

Concen: 3.244 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

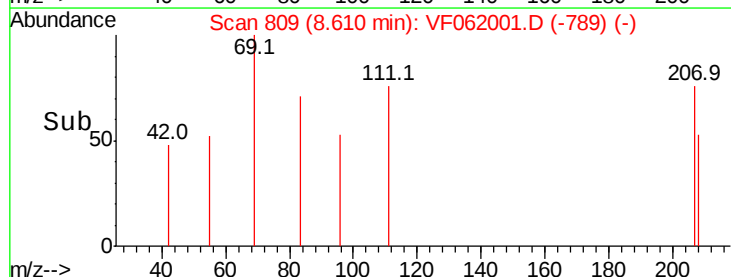
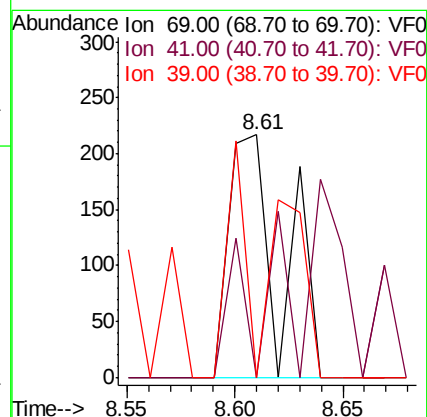
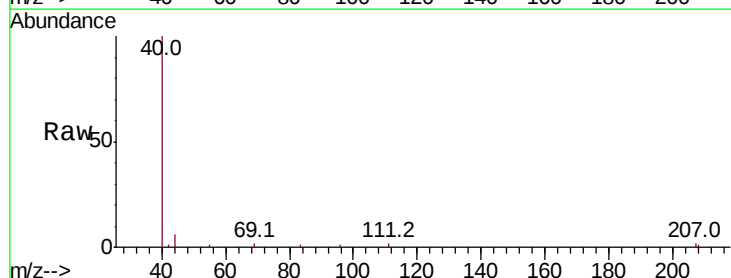
Tgt Ion: 69 Resp: 363

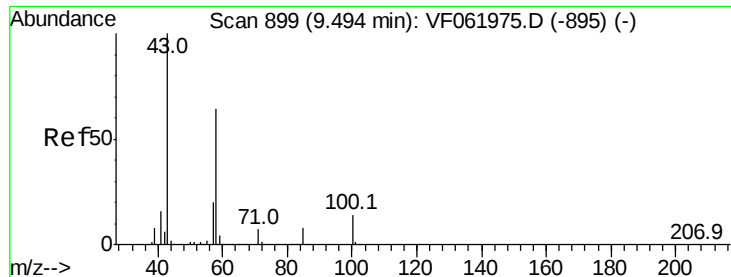
Ion Ratio Lower Upper

69 100

41 0.0 54.7 82.1#

39 0.0 27.9 41.9#





#59

2-Hexanone

Concen: 6.355 ug/l

RT: 9.43 min Scan# 892

Delta R.T. -0.07 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

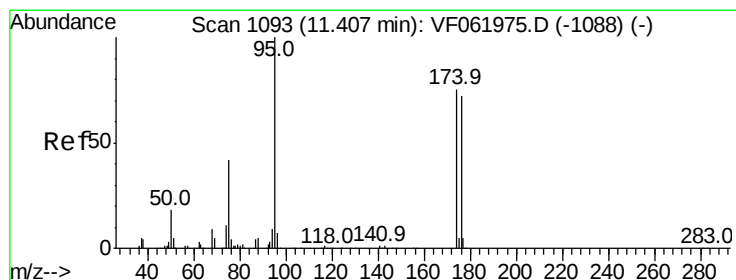
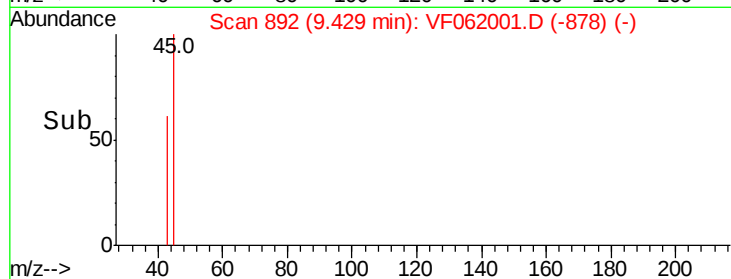
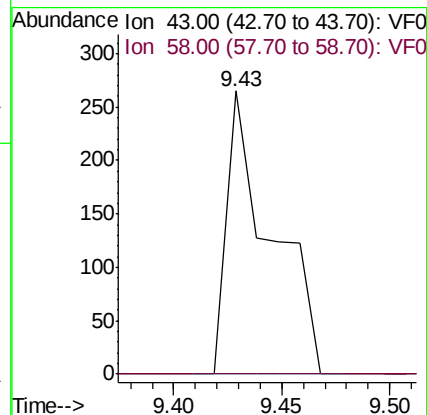
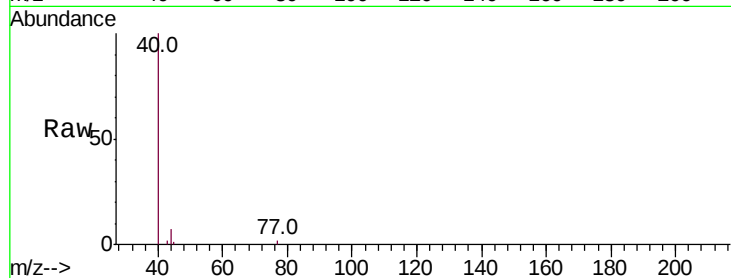
FK-GF-03-006-B

Tot Ion: 43 Resp: 378

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.2#



#62

4-Bromofluorobenzene

Concen: 24.726 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

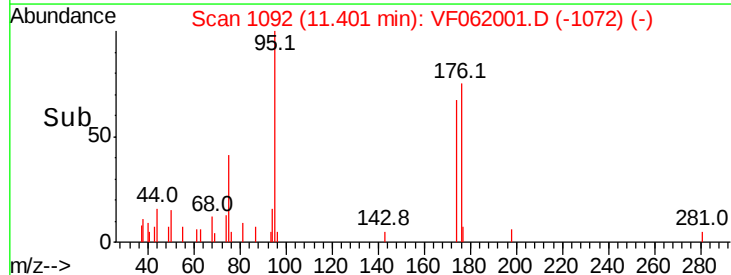
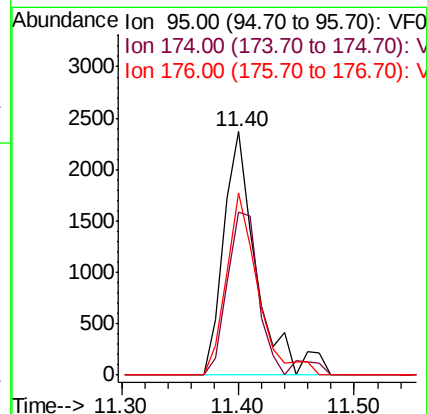
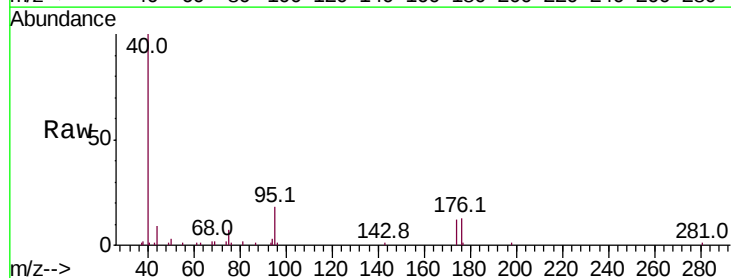
Tgt Ion: 95 Resp: 4652

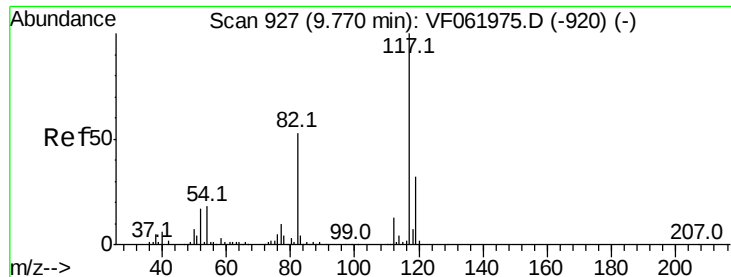
Ion Ratio Lower Upper

95 100

174 67.2 0.0 149.4

176 74.9 0.0 143.4

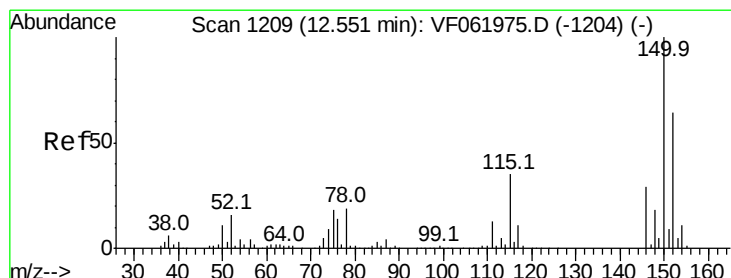
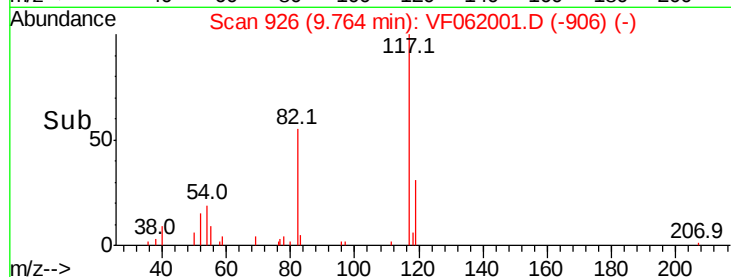
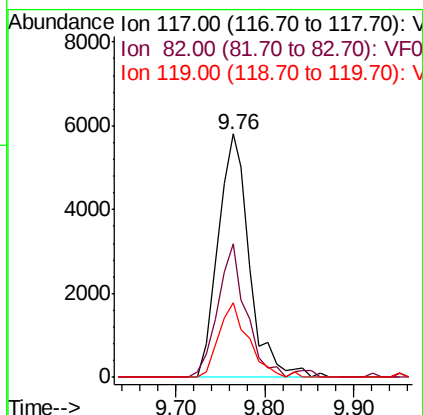
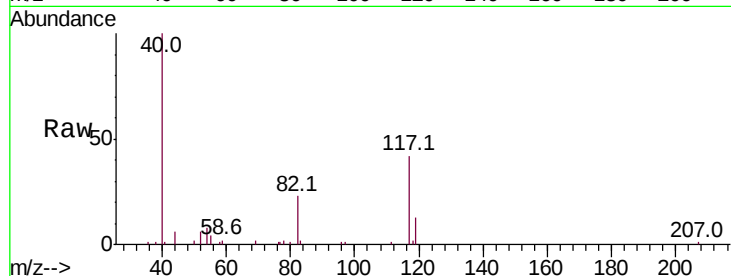




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

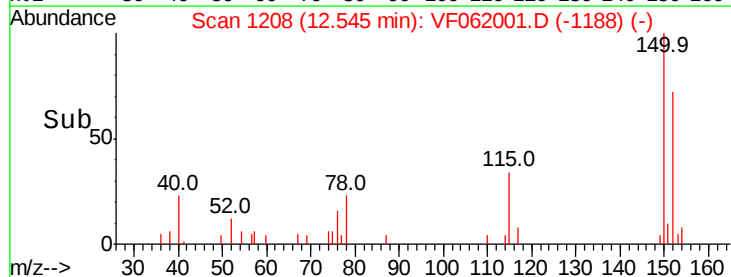
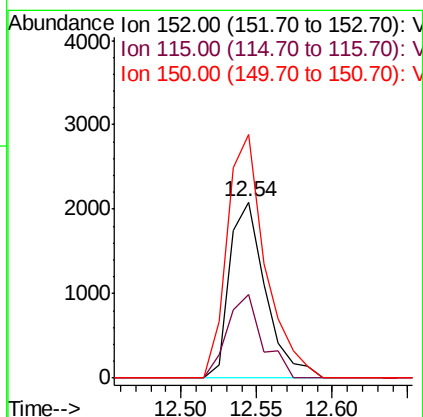
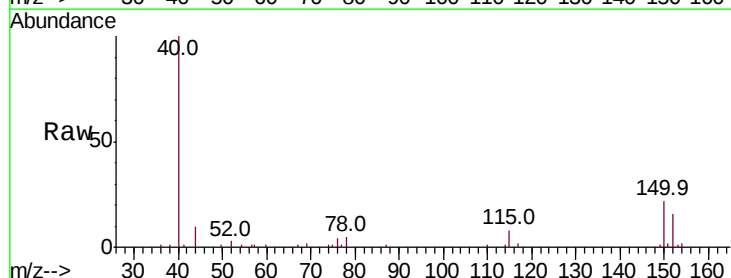
Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-006-B

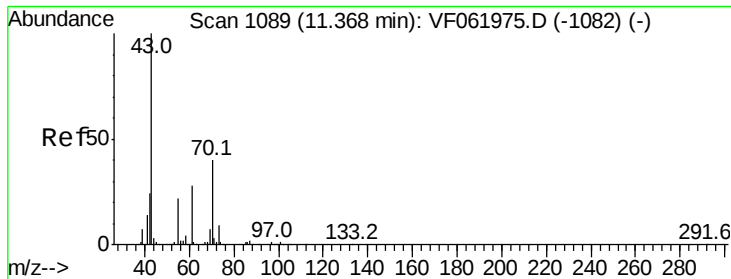
Tot Ion:117 Resp: 14284
Ion Ratio Lower Upper
117 100
82 55.1 42.5 63.7
119 30.8 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF062001.D
Acq: 18 Mar 2019 17:01

Tgt Ion:152 Resp: 3456
Ion Ratio Lower Upper
152 100
115 47.1 27.3 81.9
150 138.1 0.0 316.2





#74

N-amvl acetate

Concen: 3.692 ug/l

RT: 11.34 min Scan# 1086

Delta R.T. -0.03 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-006-B

Tot Ion: 43 Resp: 202

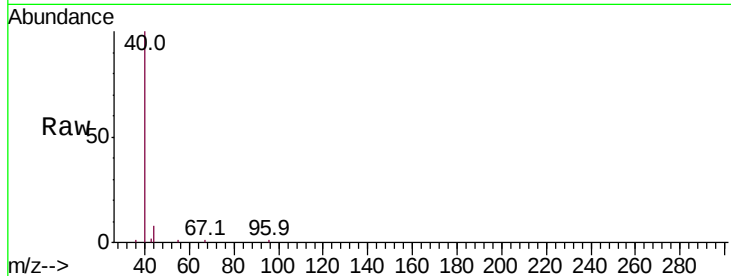
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 50.5 17.9 26.9#

61 0.0 22.2 33.2#

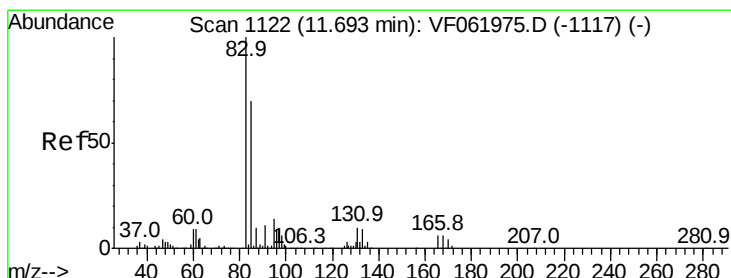
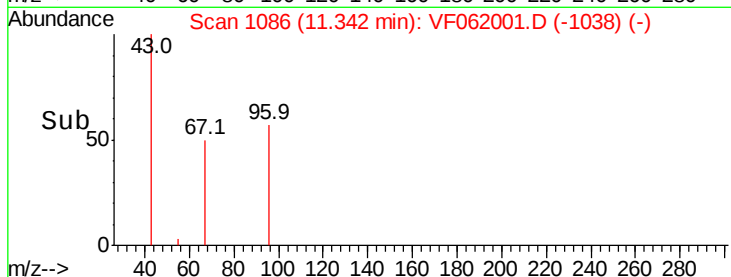
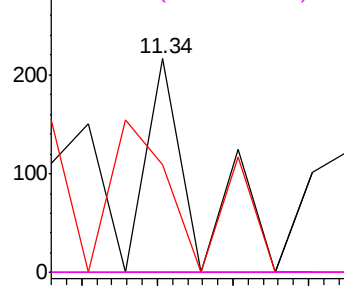


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 3.958 ug/l

RT: 11.67 min Scan# 1119

Delta R.T. -0.03 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

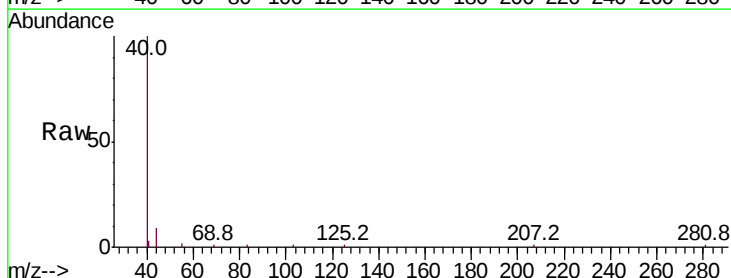
Tgt Ion: 83 Resp: 156

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

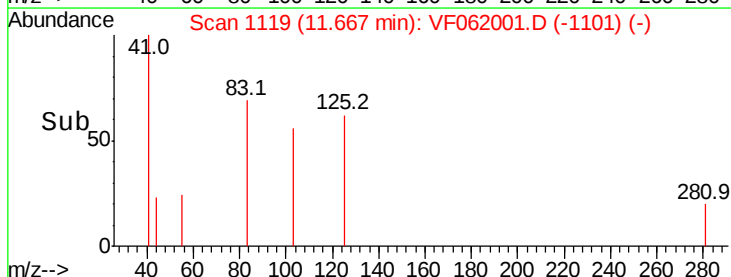
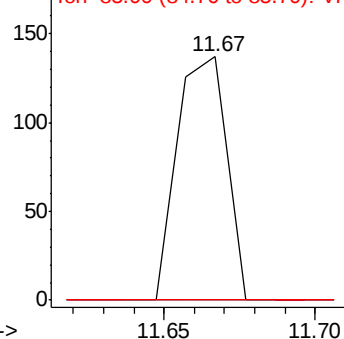
85 0.0 35.3 105.9#

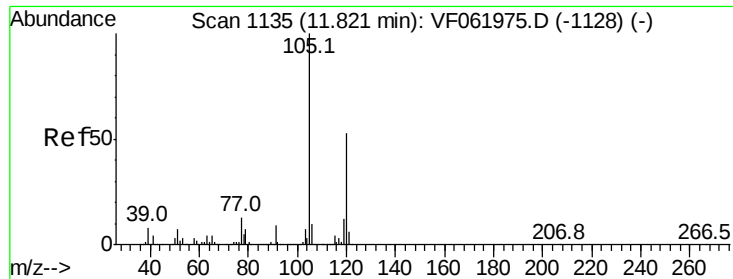


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#80

1,3,5-Trimethylbenzene

Concen: 6.652 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

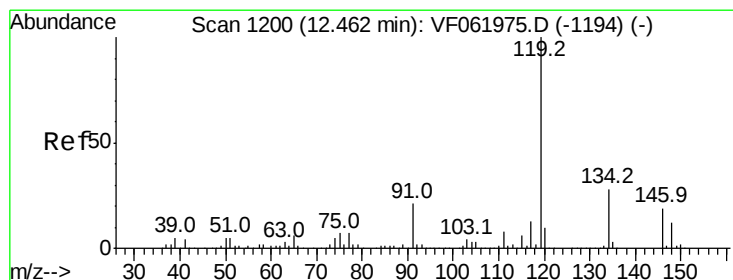
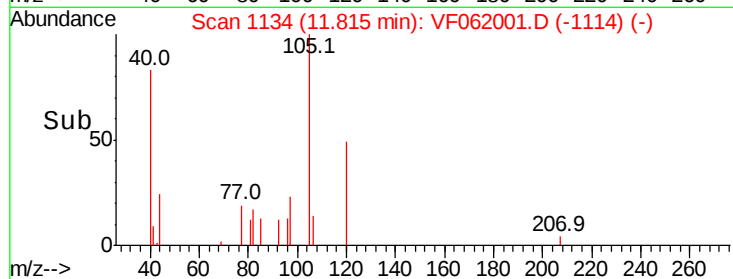
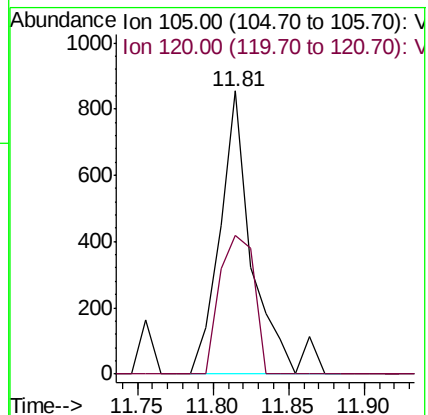
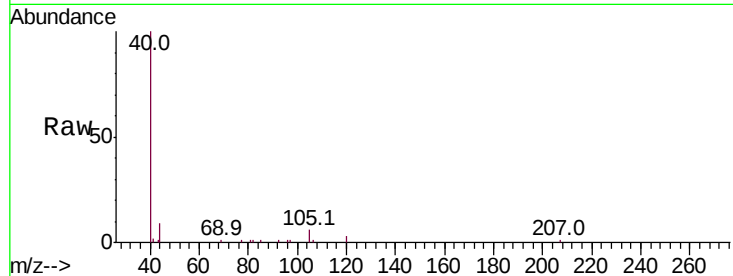
FK-GF-03-006-B

Tot Ion:105 Resp: 1283

Ion Ratio Lower Upper

105 100

120 49.1 26.6 79.7



#86

p-Isopropyltoluene

Concen: 4.261 ug/l

RT: 12.42 min Scan# 1195

Delta R.T. -0.05 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

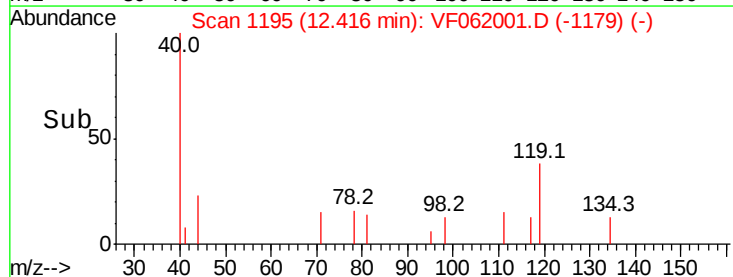
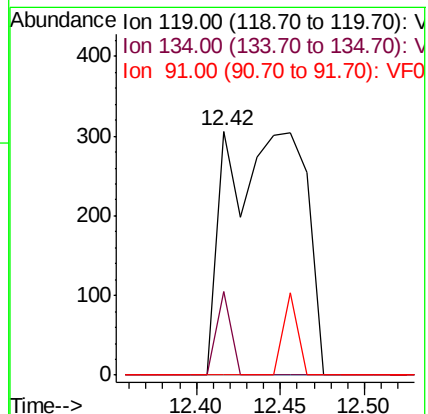
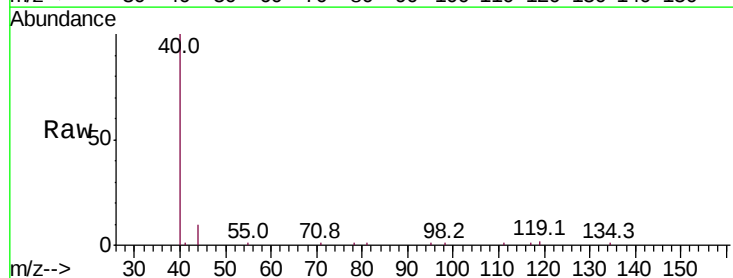
Tgt Ion:119 Resp: 969

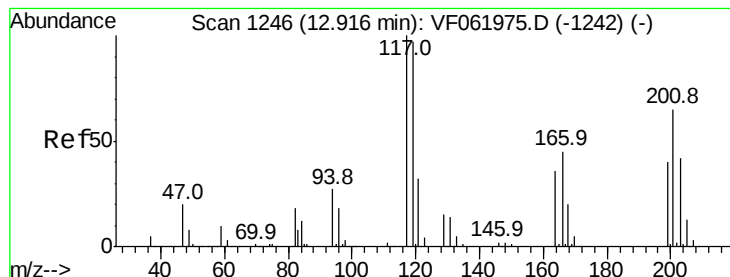
Ion Ratio Lower Upper

119 100

134 34.3 13.9 41.7

91 0.0 10.4 31.1#





#90

Hexachloroethane

Concen: 1.831 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.03 min

Lab File: VF062001.D

Acq: 18 Mar 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-006-B

Tot Ion:117 Resp: 95

Ion Ratio Lower Upper

117 100

201 0.0 32.5 97.5#

