

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\
 Data File : VF061993.D
 Acq On : 18 Mar 2019 13:10
 Operator : VA/AP
 Sample : K1861-01
 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 19 01:21:26 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	4.85	168	208062	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	322408	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	263638	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	146979	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	65133	43.49	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	86.98%	
35) Dibromofluoromethane	4.09	113	89133	41.17	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	82.34%	
50) Toluene-d8	7.54	98	225686	35.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	71.32%	
62) 4-Bromofluorobenzene	11.39	95	95287	37.90	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	75.80%	

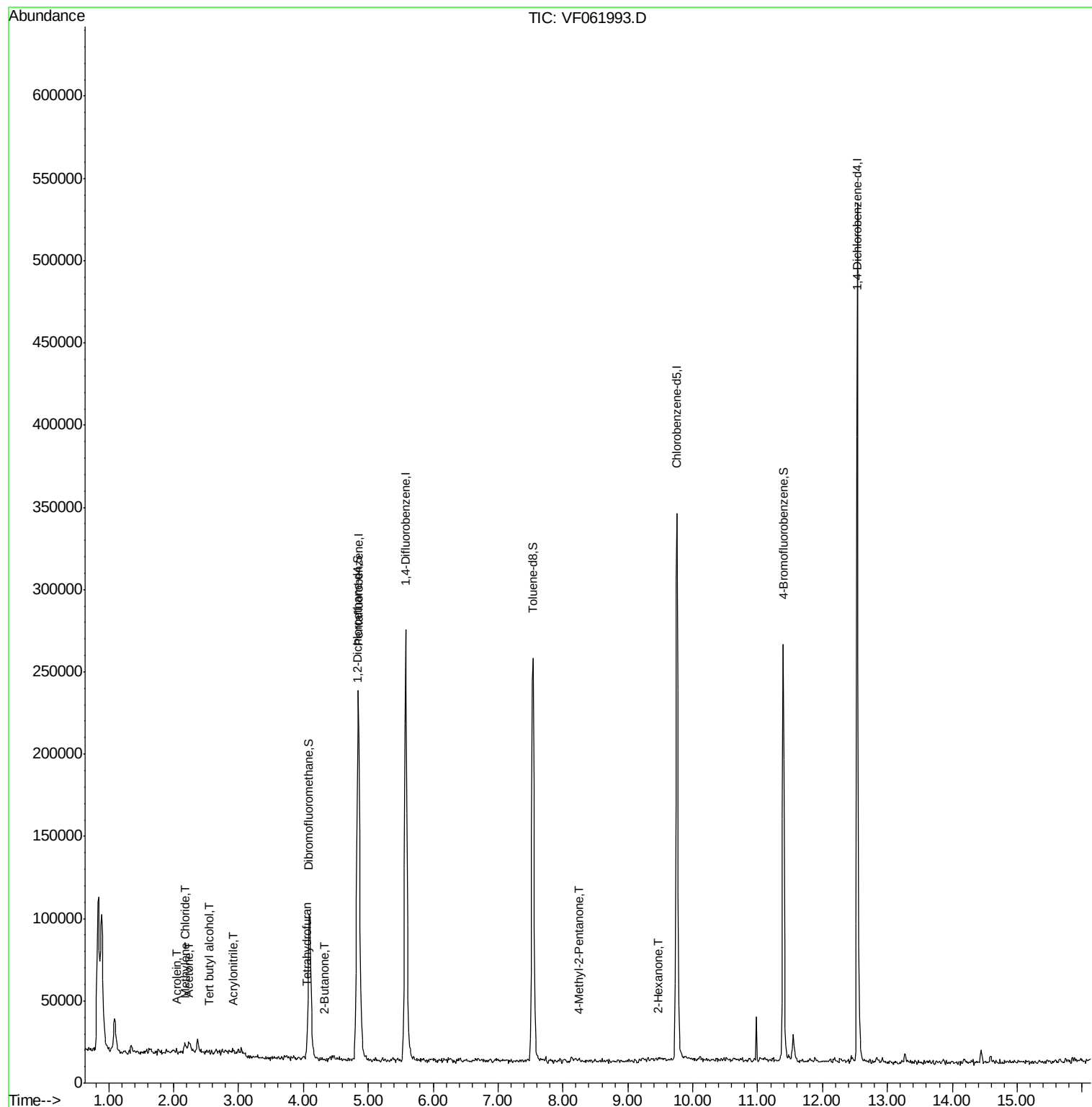
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	188	2.051	ug/l #	1
13) Acrolein	2.05	56	193	1.951	ug/l	84
15) Acrylonitrile	2.92	53	1018	3.653	ug/l	97
16) Acetone	2.22	43	2145	6.378	ug/l #	69
20) Methylene Chloride	2.17	84	1995	1.152	ug/l #	76
25) 2-Butanone	4.31	43	1151	1.728	ug/l	95
29) Tetrahydrofuran	4.05	42	386	1.333	ug/l #	46
51) 4-Methyl-2-Pentanone	8.24	43	2188	1.992	ug/l	92
59) 2-Hexanone	9.47	43	2356	2.964	ug/l	88

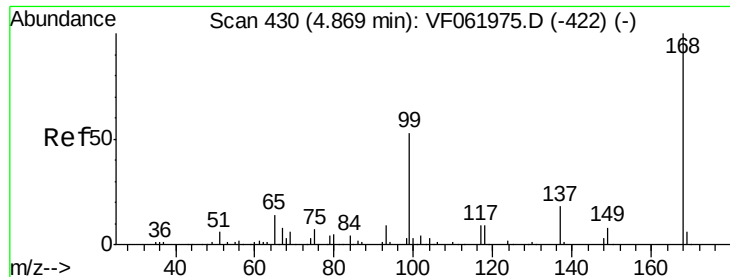
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

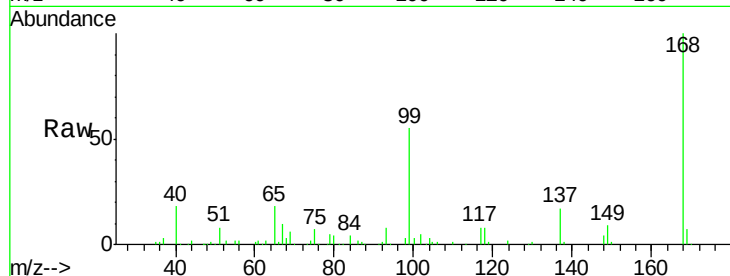
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 208062

Ion Ratio Lower Upper

168 100

99 54.5 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

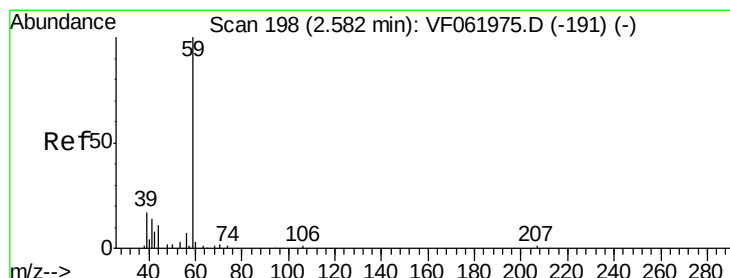
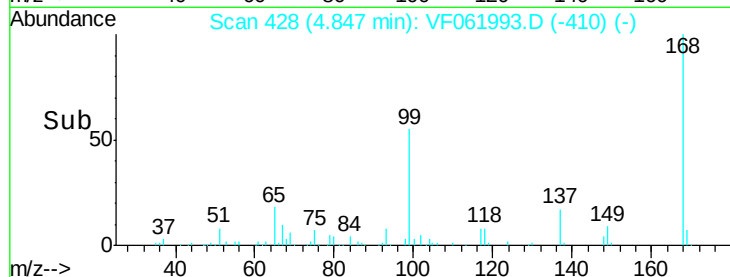
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.051 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.03 min

Lab File: VF061993.D

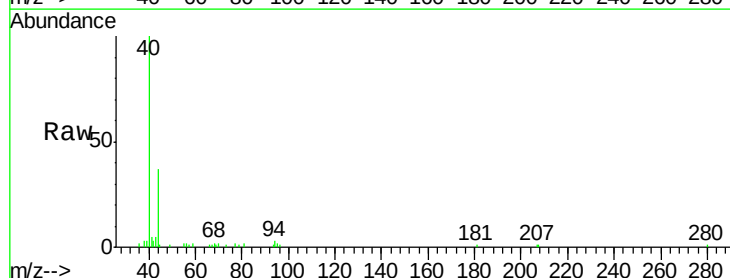
Acq: 18 Mar 2019 13:10

Tgt Ion: 59 Resp: 188

Ion Ratio Lower Upper

59 100

57 73.8 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

200

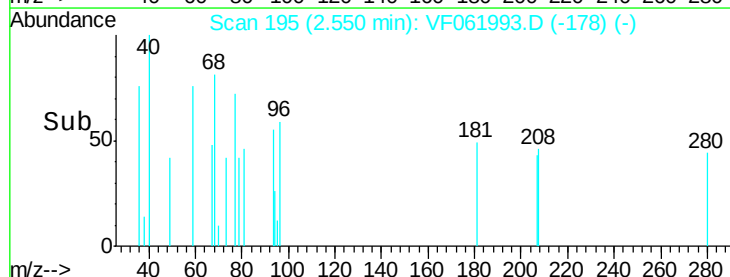
150

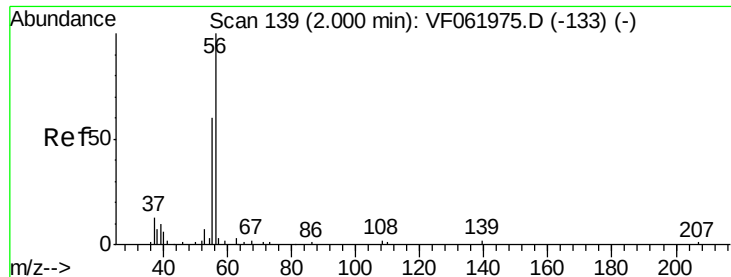
100

50

0

Time-->





#13

Acrolein

Concen: 1.951 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.05 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

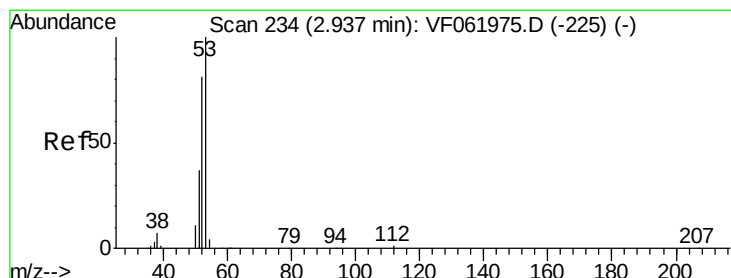
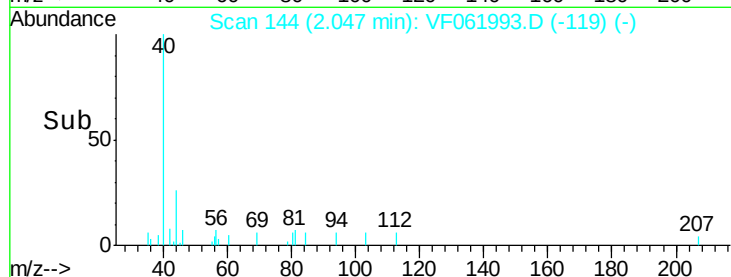
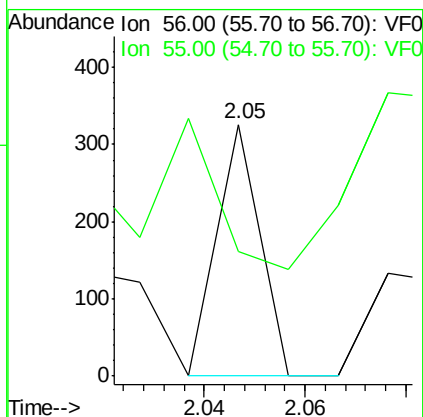
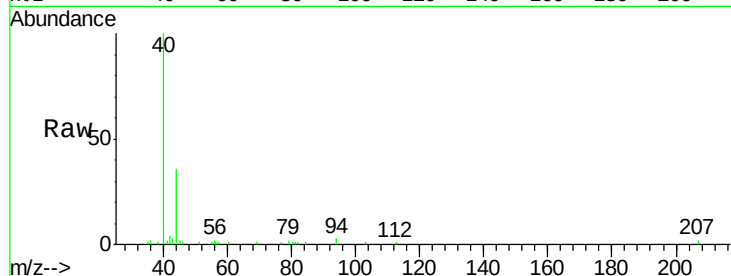
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 49.4 49.1 73.7



#15

Acrylonitrile

Concen: 3.653 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

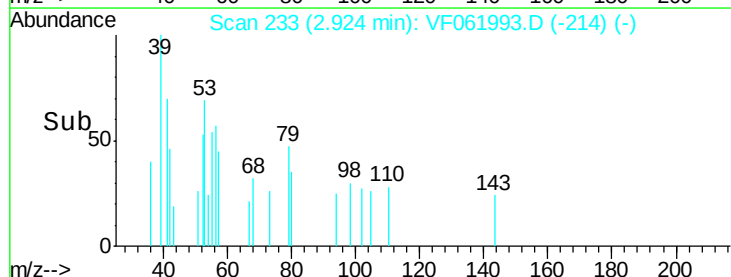
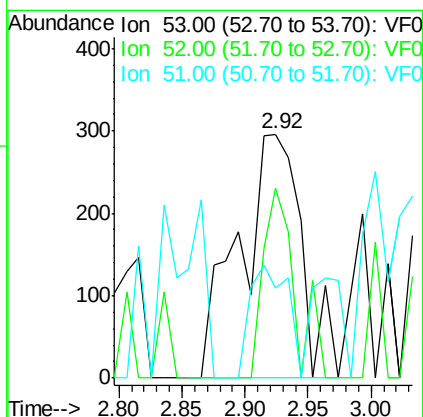
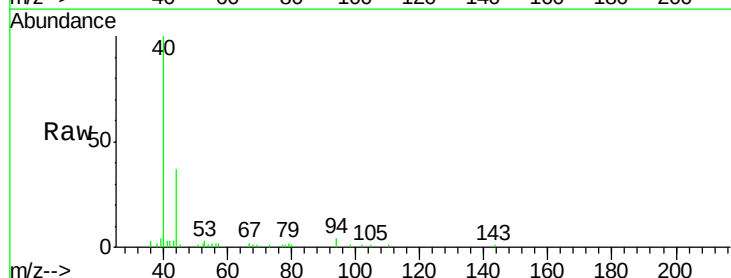
Tgt Ion: 53 Resp: 1018

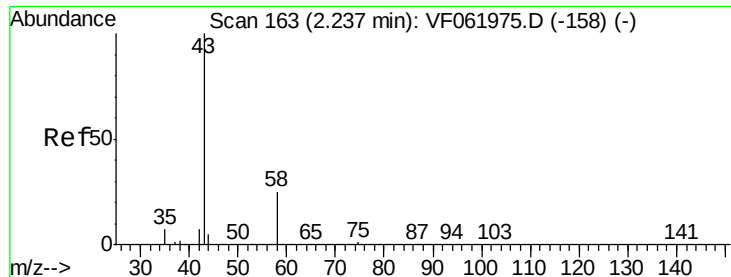
Ion Ratio Lower Upper

53 100

52 77.7 64.4 96.6

51 37.2 30.3 45.5

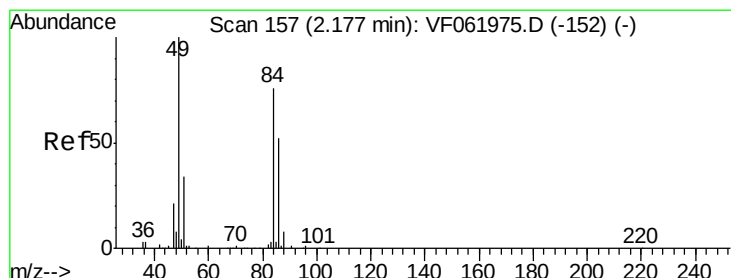
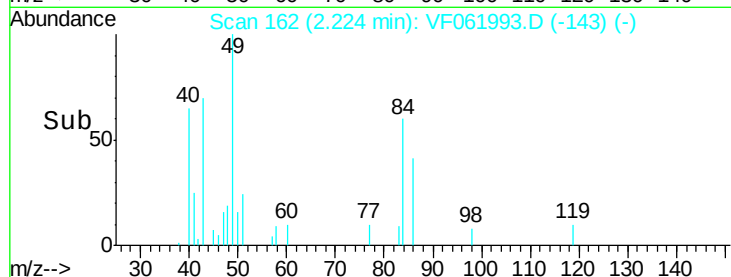
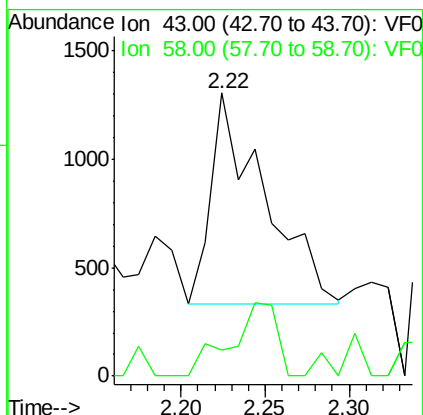
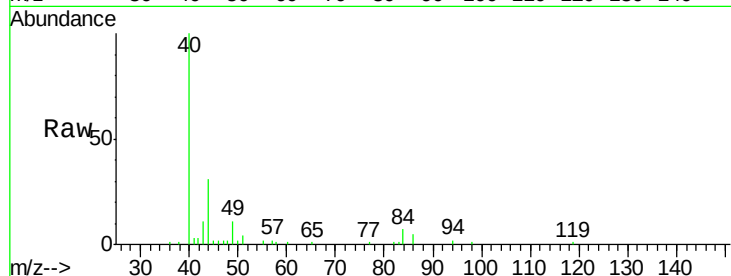




#16
Acetone
Concen: 6.378 ug/l
RT: 2.22 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF061993.D
Acq: 18 Mar 2019 13:10

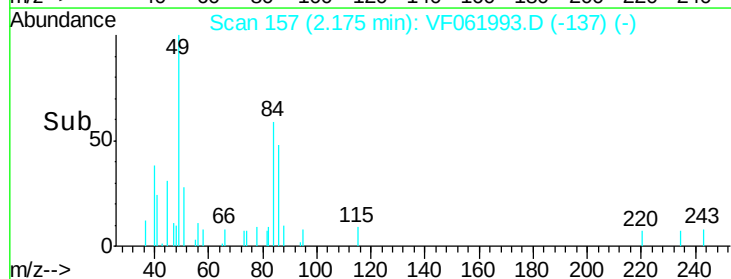
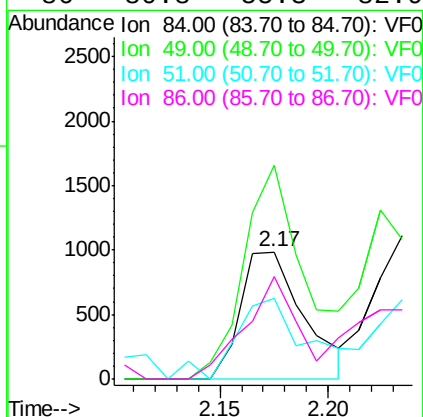
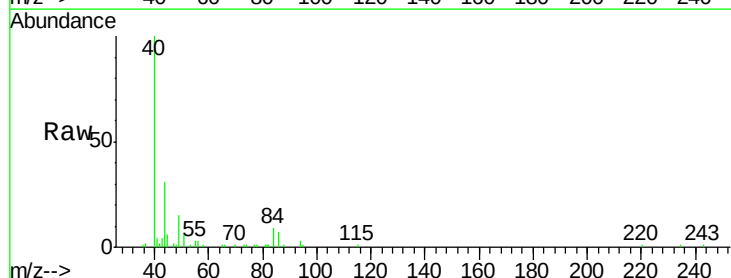
Instrument :
MSVOA_F
ClientSampleId :

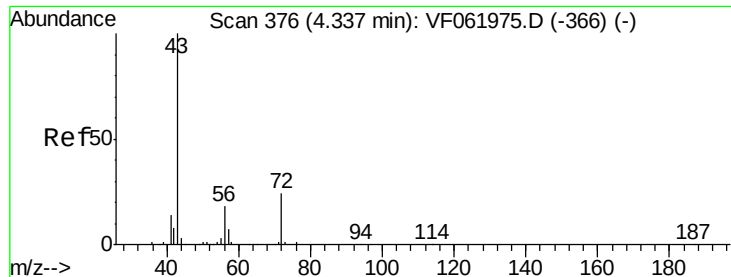
Tot Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
58 9.3 19.9 29.9#



#20
Methylene Chloride
Concen: 1.152 ug/l
RT: 2.17 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061993.D
Acq: 18 Mar 2019 13:10

Tgt Ion: 84 Resp: 1995
Ion Ratio Lower Upper
84 100
49 168.1 107.0 160.6#
51 63.1 37.2 55.8#
86 80.8 55.3 82.9





#25

2-Butanone

Concen: 1.728 ug/l

RT: 4.31 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

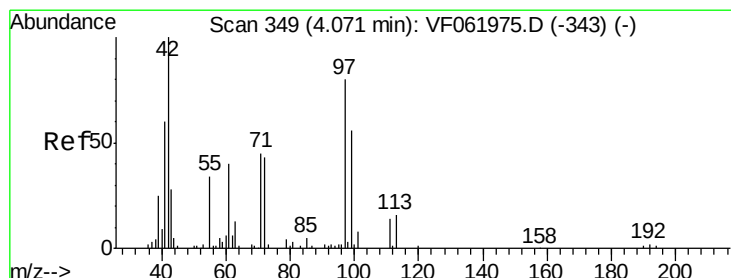
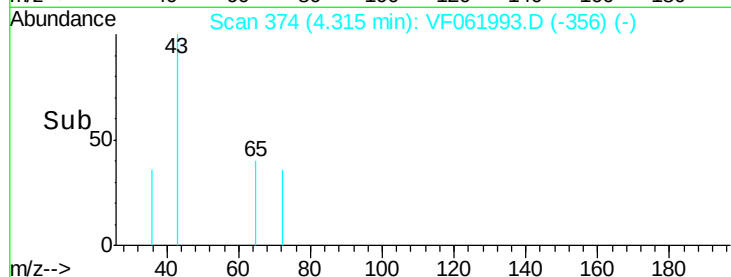
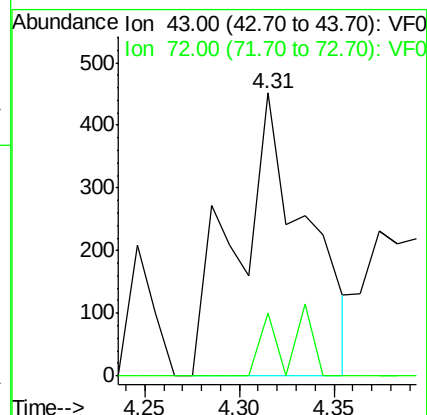
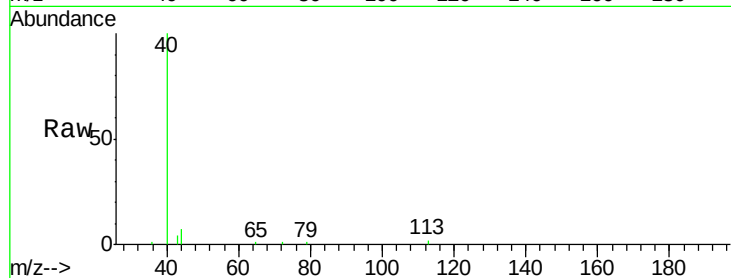
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1151

Ion Ratio Lower Upper

43 100

72 22.1 19.8 29.6



#29

Tetrahydrofuran

Concen: 1.333 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

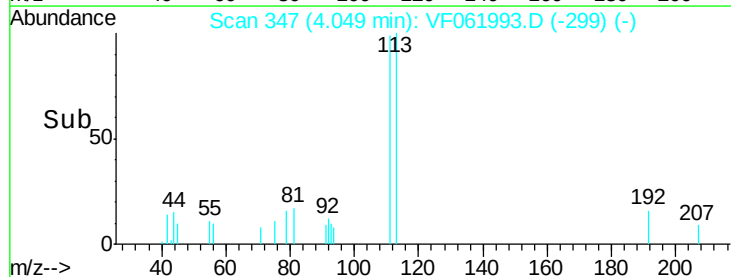
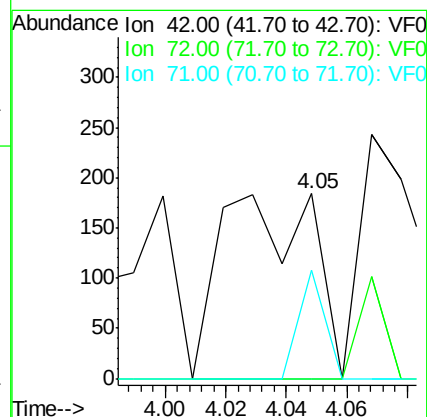
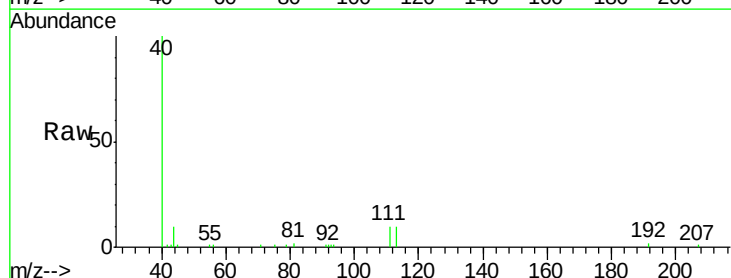
Tgt Ion: 42 Resp: 386

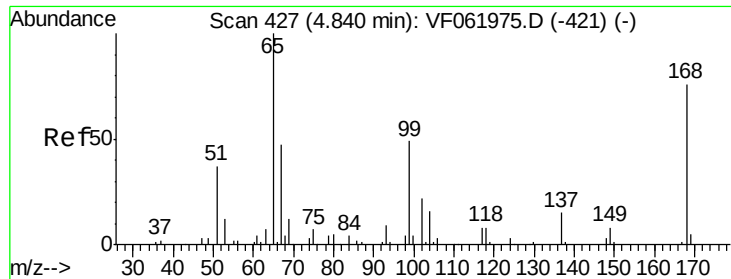
Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

71 16.6 34.2 51.4#

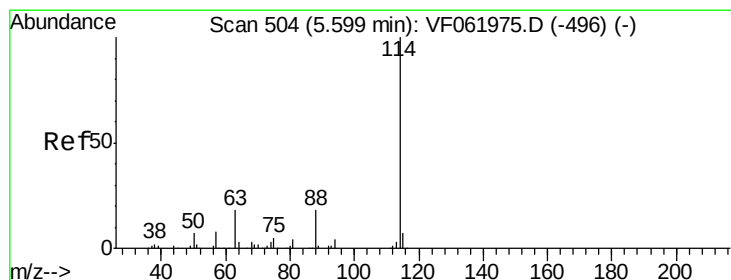
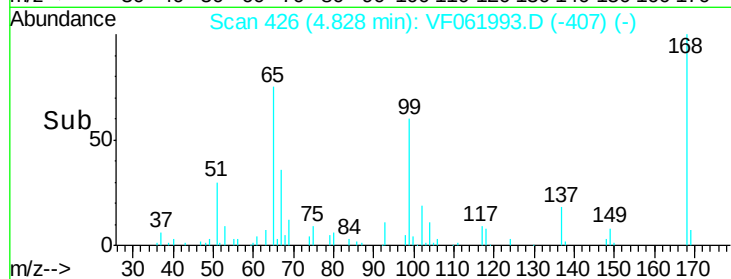
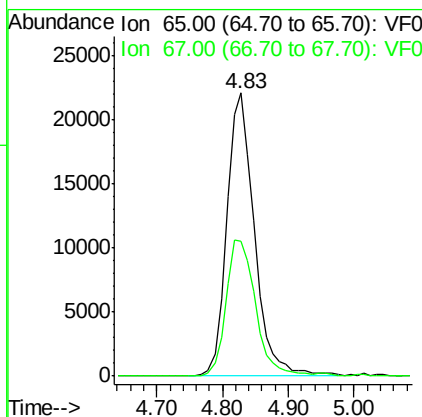
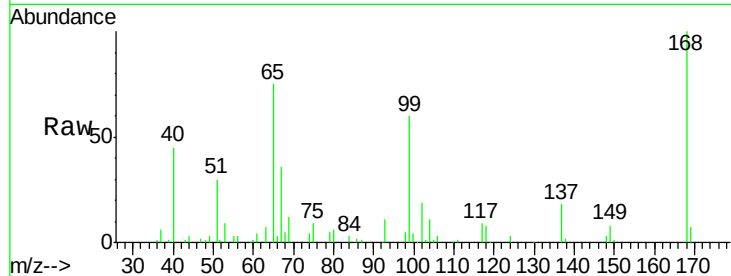




#33
 1,2-Dichloroethane-d4
 Concen: 43.488 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.01 min
 Lab File: VF061993.D
 Acq: 18 Mar 2019 13:10

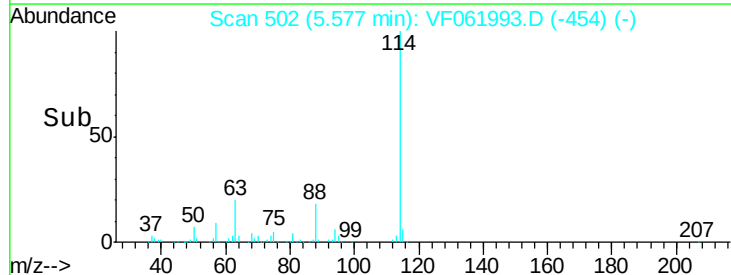
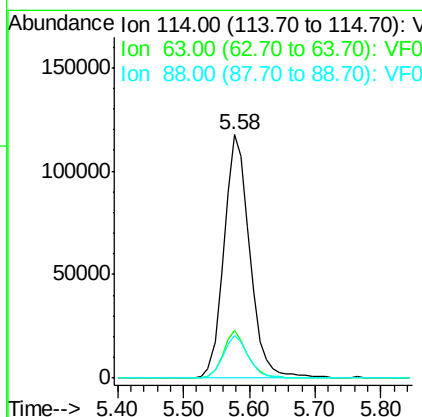
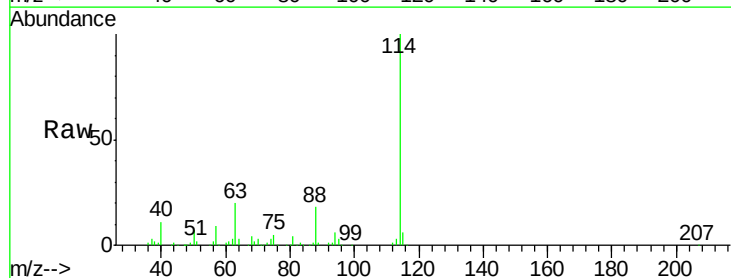
Instrument :
 MSVOA_F
 ClientSampleId :

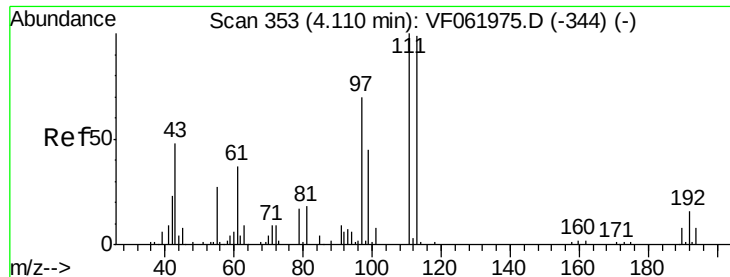
Tot Ion: 65 Resp: 65133
 Ion Ratio Lower Upper
 65 100
 67 47.5 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF061993.D
 Acq: 18 Mar 2019 13:10

Tgt Ion: 114 Resp: 322408
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 36.4
 88 17.7 0.0 36.4





#35

Dibromofluoromethane

Concen: 41.169 ug/l

RT: 4.09 min Scan# 351

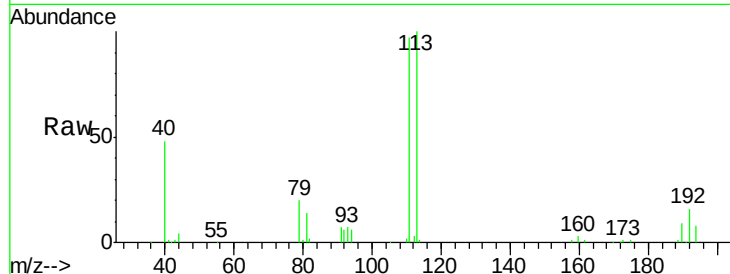
Delta R.T. -0.02 min

Lab File: VF061993.D

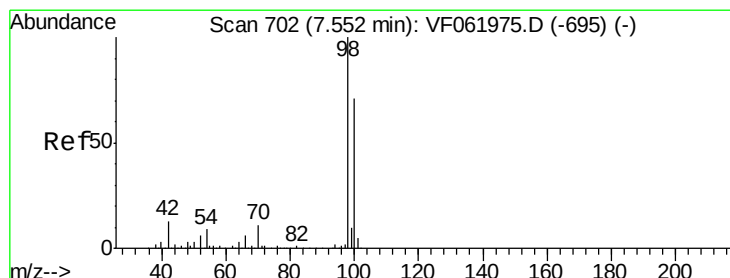
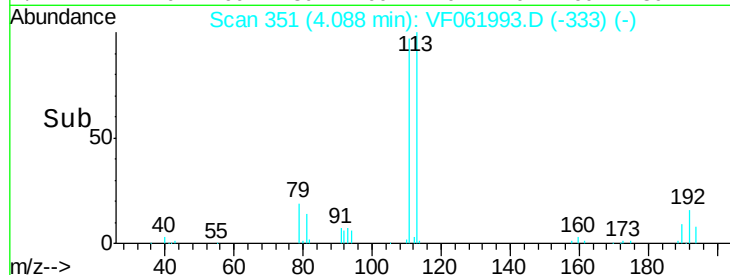
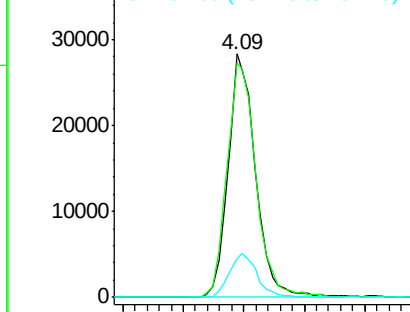
Acq: 18 Mar 2019 13:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 89133
Ion Ratio Lower Upper
113 100
111 96.6 80.8 121.2
192 15.7 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



#50

Toluene-d8

Concen: 35.659 ug/l

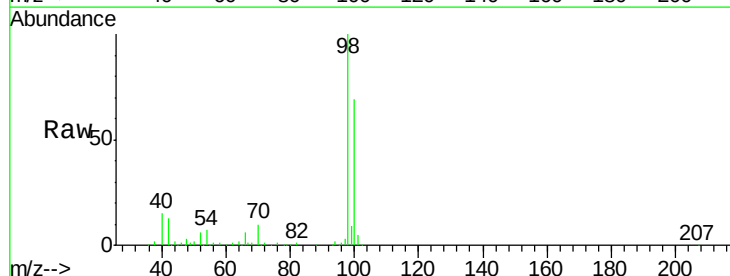
RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

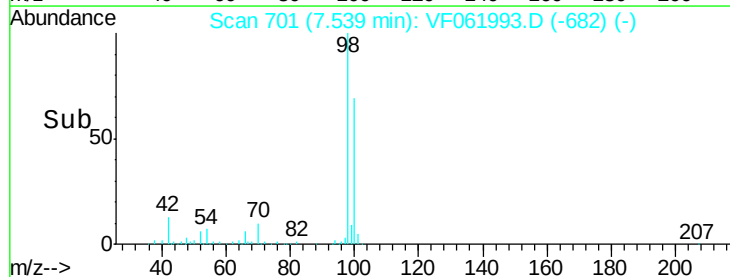
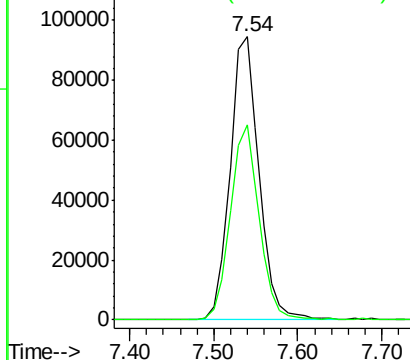
Lab File: VF061993.D

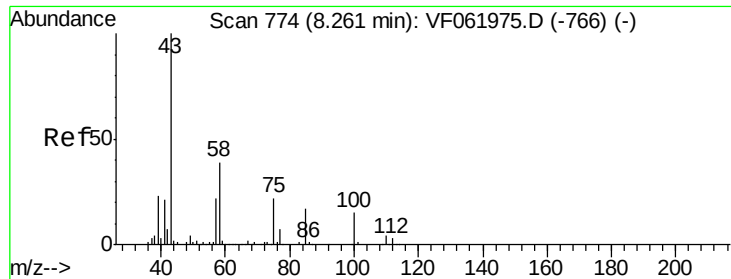
Acq: 18 Mar 2019 13:10

Tgt Ion: 98 Resp: 225686
Ion Ratio Lower Upper
98 100
100 69.1 56.8 85.2



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: 1.992 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061993.D

Acq: 18 Mar 2019 13:10

Instrument :

MSVOA_F

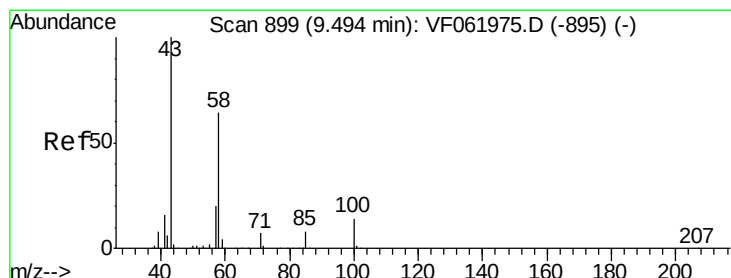
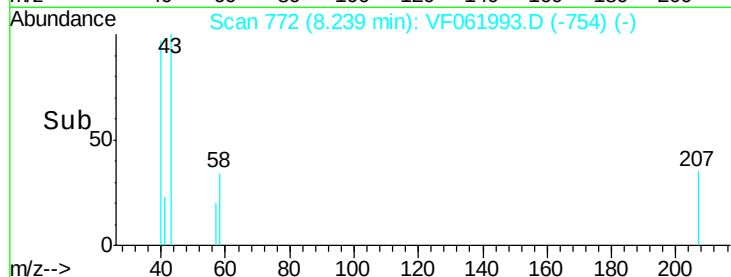
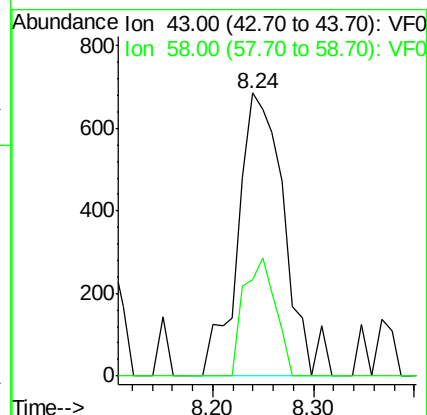
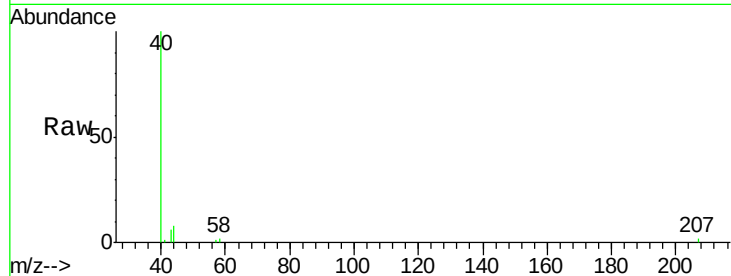
ClientSampleId :

Tot Ion: 43 Resp: 2188

Ion Ratio Lower Upper

43 100

58 34.1 31.1 46.7



#59

2-Hexanone

Concen: 2.964 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF061993.D

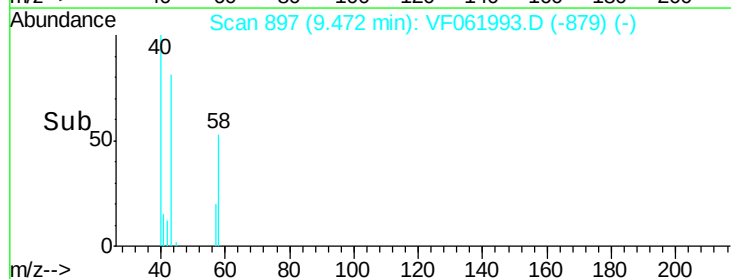
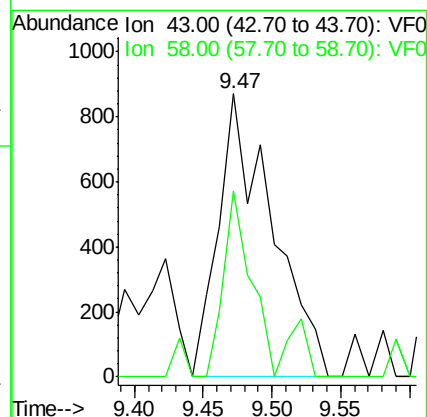
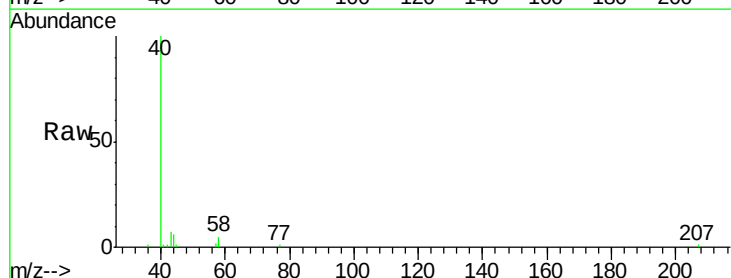
Acq: 18 Mar 2019 13:10

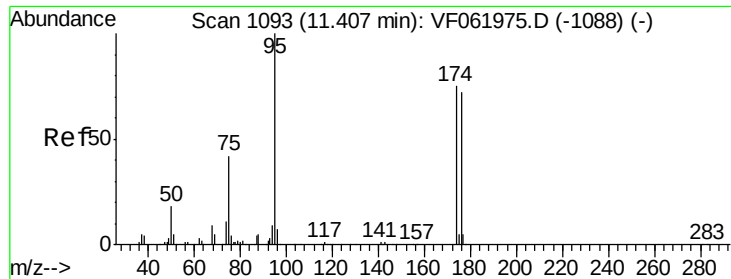
Tgt Ion: 43 Resp: 2356

Ion Ratio Lower Upper

43 100

58 65.6 28.4 85.2

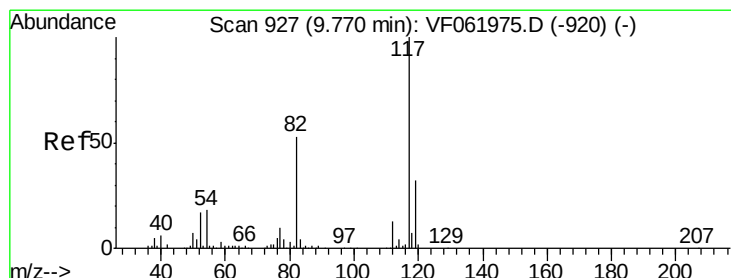
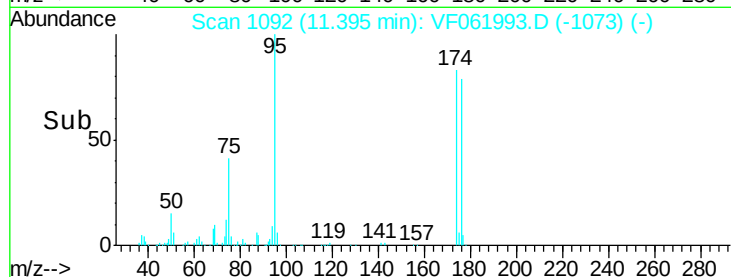
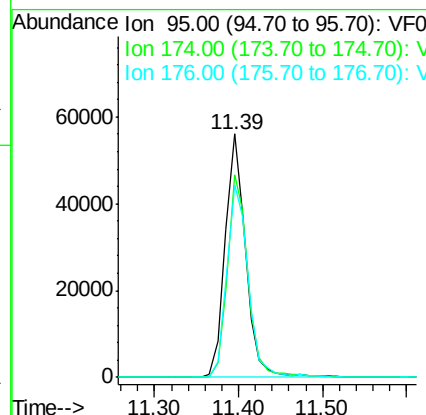
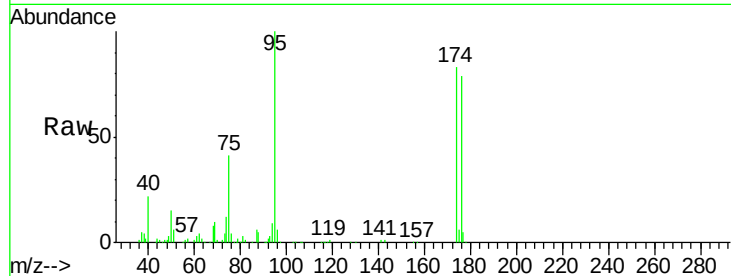




#62
4-Bromofluorobenzene
Concen: 37.898 ug/l
RT: 11.39 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061993.D
Acq: 18 Mar 2019 13:10

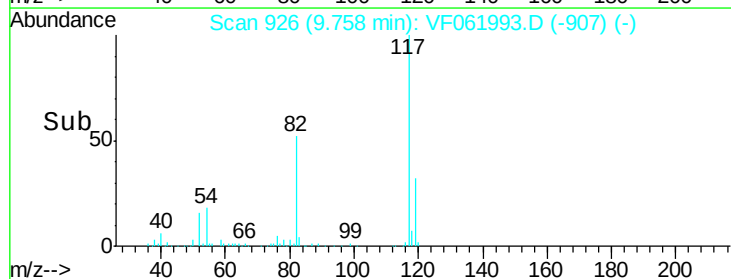
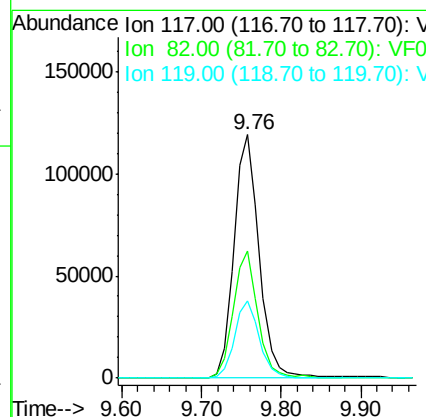
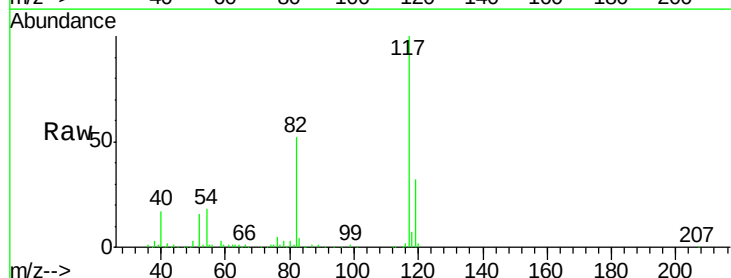
Instrument :
MSVOA_F
ClientSampleId :

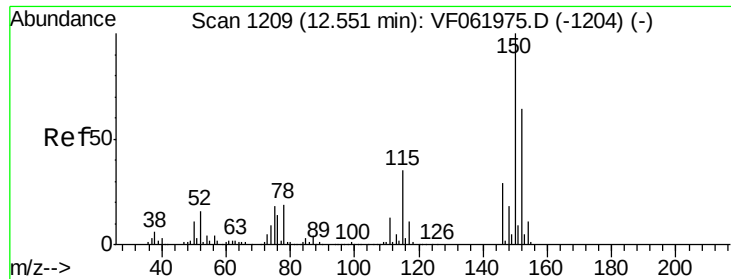
Tot Ion: 95 Resp: 95287
Ion Ratio Lower Upper
95 100
174 83.1 0.0 149.4
176 79.2 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061993.D
Acq: 18 Mar 2019 13:10

Tgt Ion: 117 Resp: 263638
Ion Ratio Lower Upper
117 100
82 52.3 42.5 63.7
119 31.8 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: VF061993.D

Acq: 18 Mar 2019 13:10

Instrument :

MSVOA_F

ClientSampleId :

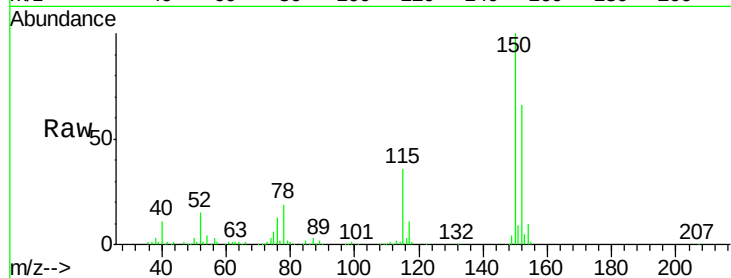
Tot Ion:152 Resp: 146979

Ion Ratio Lower Upper

152 100

115 55.1 27.3 81.9

150 152.3 0.0 316.2



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

