

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062100.D
 Acq On : 23 Mar 2019 2:00
 Operator : VA/AP
 Sample : K2050-05
 Misc : 4.20g/5mL/MSVOA-F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-1

Quant Time: Mar 23 06:35:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	159080	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	232730	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	135979	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	31311	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	64872	54.83	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	109.66%	
35) Dibromofluoromethane	4.14	113	94120	59.78	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	119.56%	
50) Toluene-d8	7.58	98	215242	45.80	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	91.60%	
62) 4-Bromofluorobenzene	11.43	95	43911	24.20	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	48.40%	

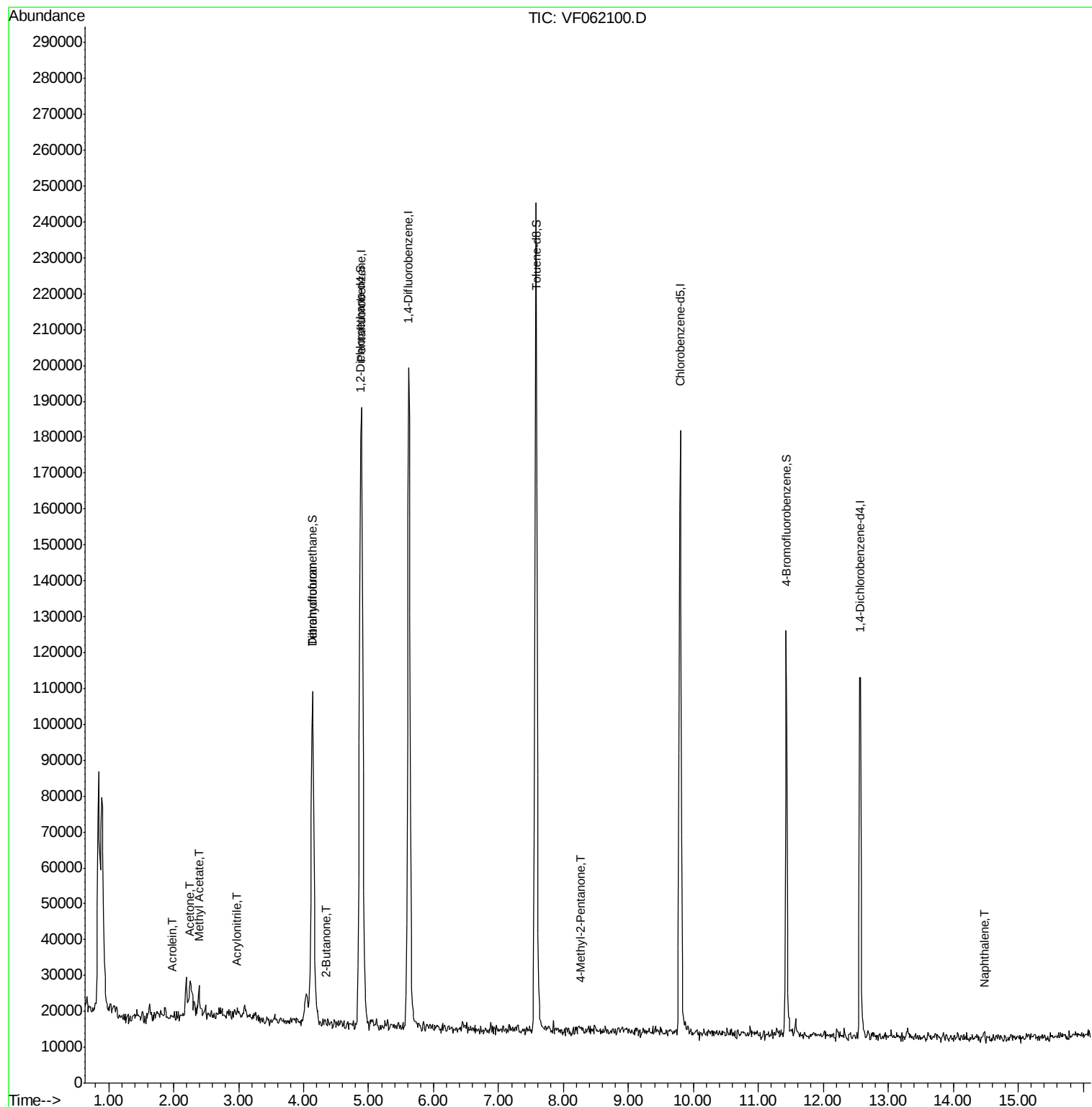
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.99	56	462	5.901	ug/l #	22
15) Acrylonitrile	2.96	53	293	1.280	ug/l #	90
16) Acetone	2.25	43	3824	15.355	ug/l #	80
18) Methyl Acetate	2.39	43	3467	5.836	ug/l #	56
25) 2-Butanone	4.35	43	599	1.152	ug/l #	55
29) Tetrahydrofuran	4.13	42	505	2.234	ug/l #	53
51) 4-Methyl-2-Pentanone	8.28	43	973	1.239	ug/l #	33
95) Naphthalene	14.47	128	1614	1.407	ug/l #	70

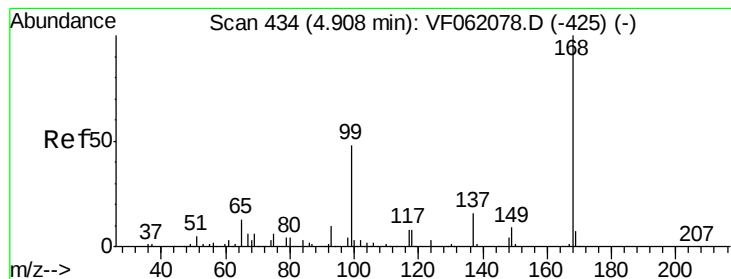
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampleId :

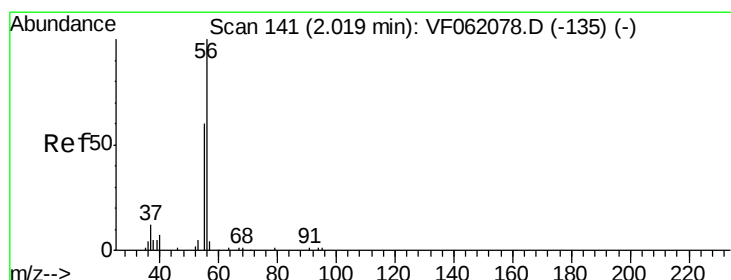
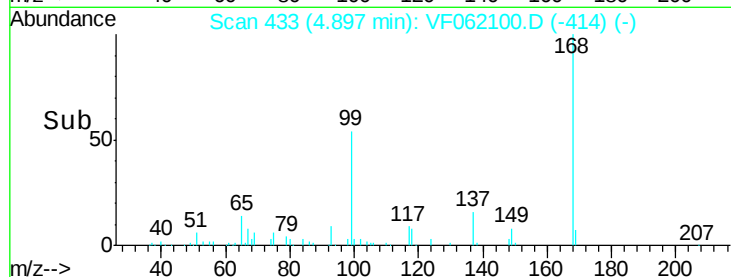
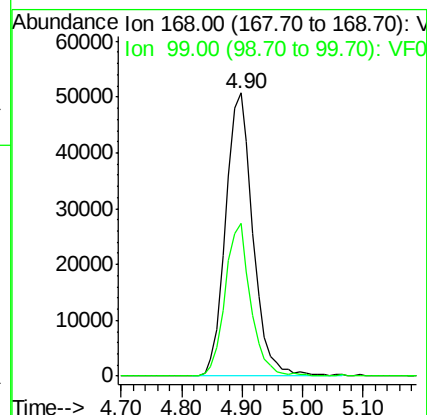
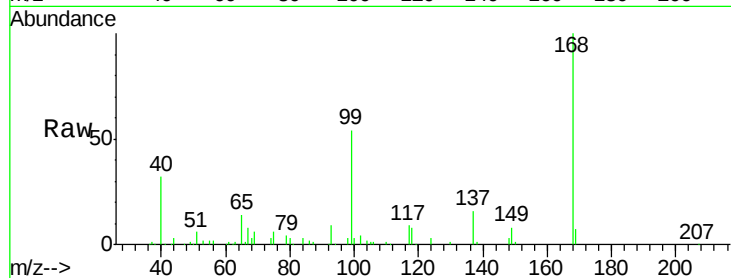
CS-1

Tot Ion:168 Resp: 159080

Ion Ratio Lower Upper

168 100

99 53.8 38.2 57.4



#13

Acrolein

Concen: 5.901 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF062100.D

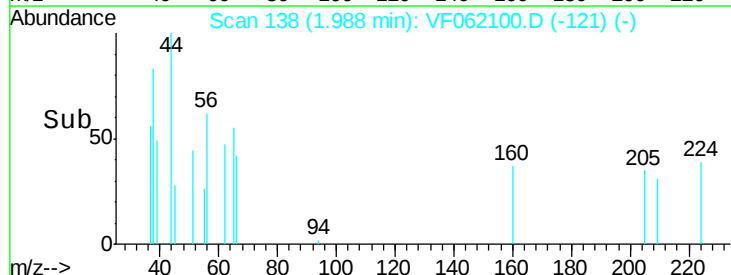
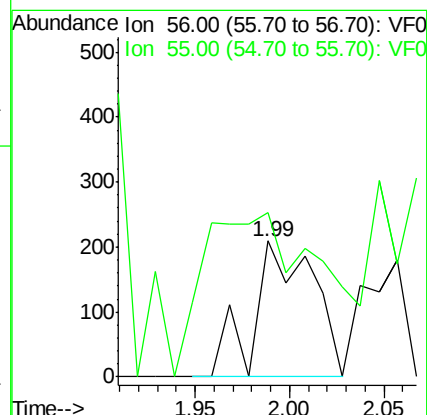
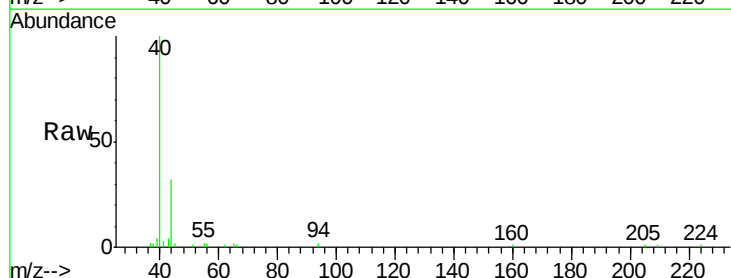
Acq: 23 Mar 2019 2:00

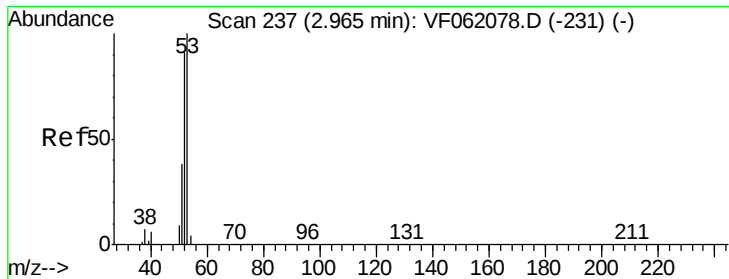
Tgt Ion: 56 Resp: 462

Ion Ratio Lower Upper

56 100

55 121.1 49.0 73.4#





#15

Acrylonitrile

Concen: 1.280 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampled :

CS-1

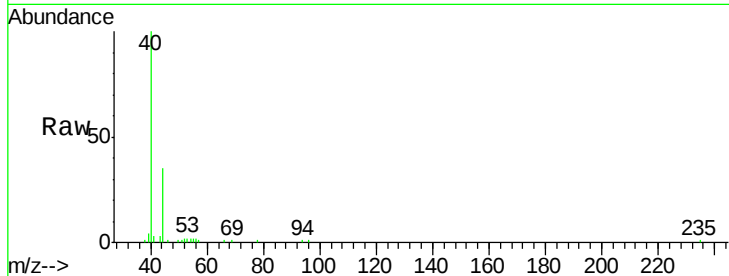
Tot Ion: 53 Resp: 293

Ion Ratio Lower Upper

53 100

52 88.8 72.3 108.5

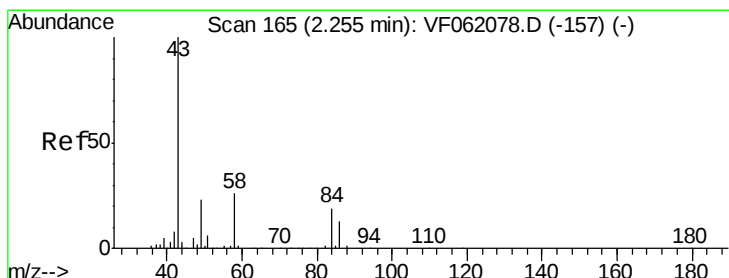
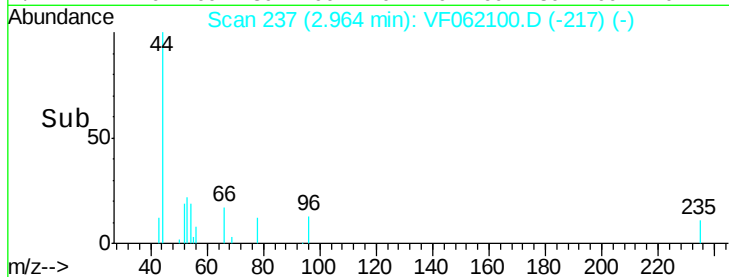
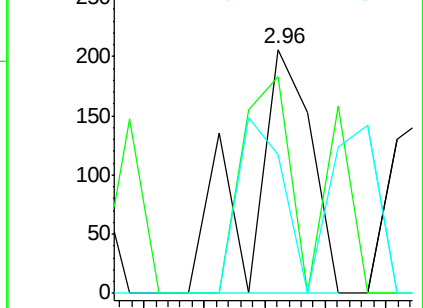
51 56.8 30.4 45.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 15.355 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF062100.D

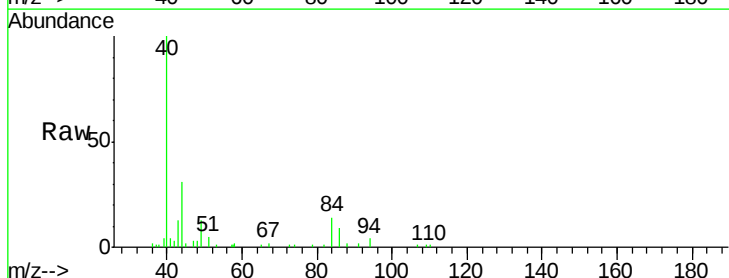
Acq: 23 Mar 2019 2:00

Tgt Ion: 43 Resp: 3824

Ion Ratio Lower Upper

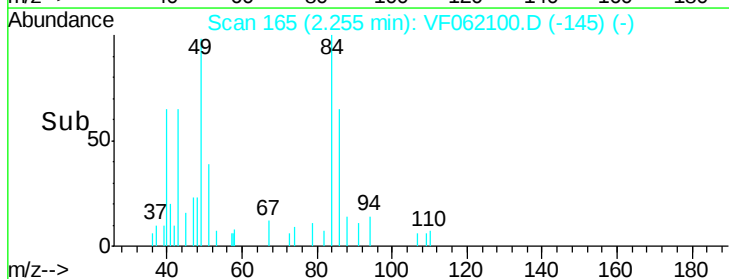
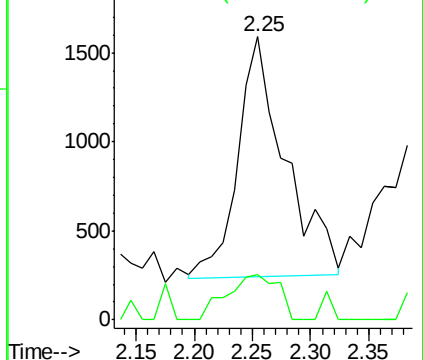
43 100

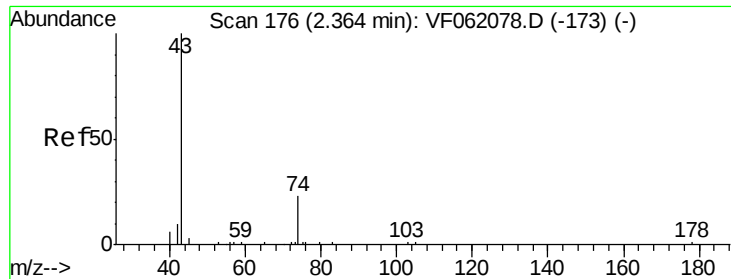
58 15.9 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

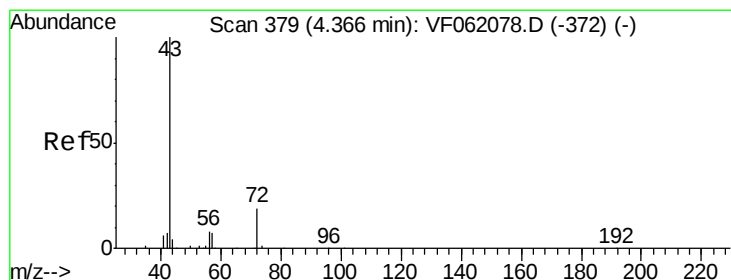
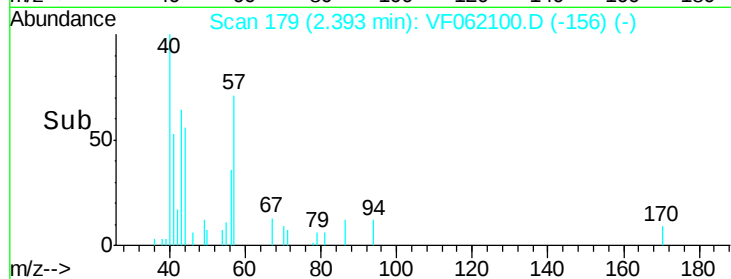
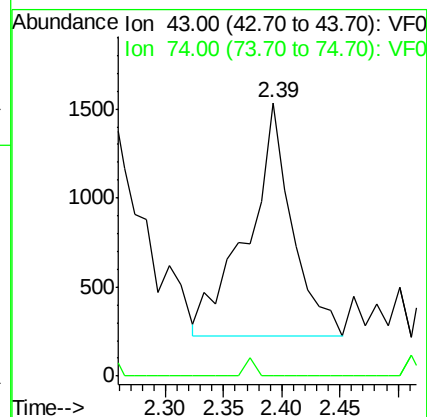
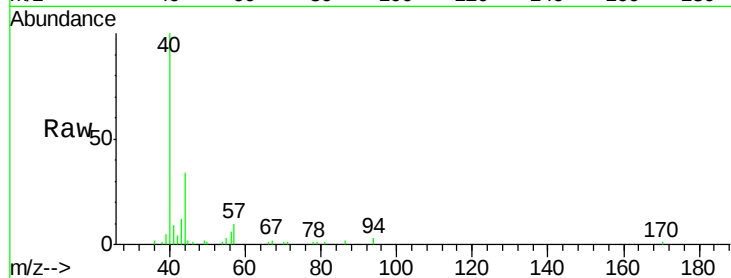




#18
Methyl Acetate
Concen: 5.836 ug/l
RT: 2.39 min Scan# 179
Delta R.T. 0.03 min
Lab File: VF062100.D
Acq: 23 Mar 2019 2:00

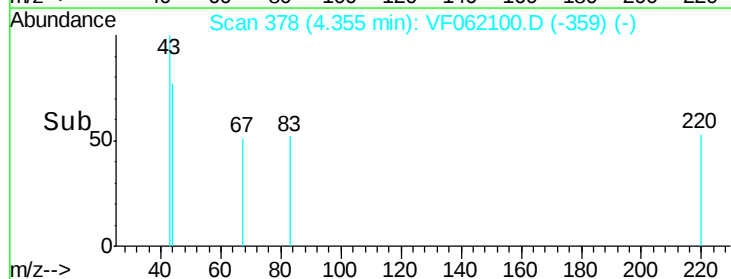
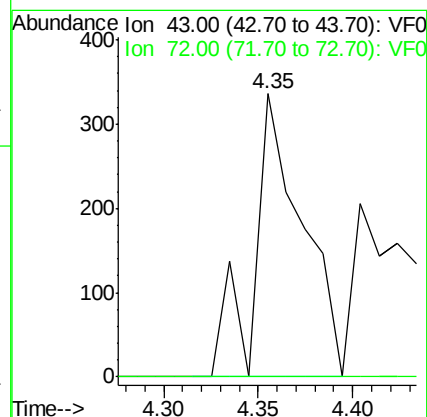
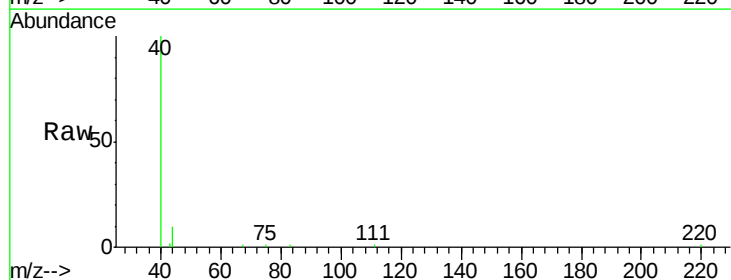
Instrument :
MSVOA_F
ClientSampled :
CS-1

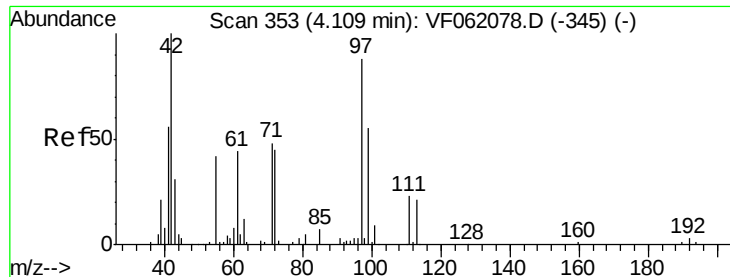
Tot Ion: 43 Resp: 3467
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#25
2-Butanone
Concen: 1.152 ug/l
RT: 4.35 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF062100.D
Acq: 23 Mar 2019 2:00

Tgt Ion: 43 Resp: 599
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#29

Tetrahydrofuran

Concen: 2.234 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampleId :

CS-1

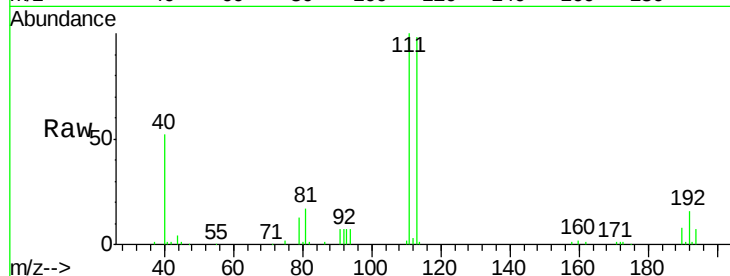
Tot Ion: 42 Resp: 505

Ion Ratio Lower Upper

42 100

72 12.3 33.3 49.9#

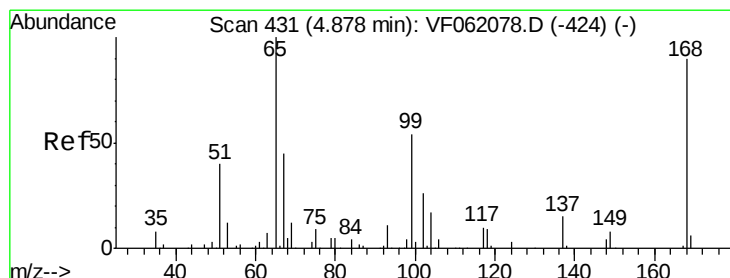
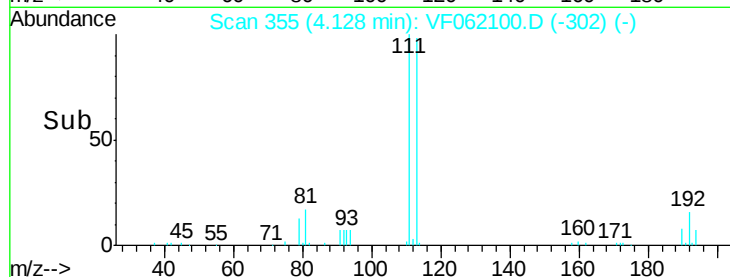
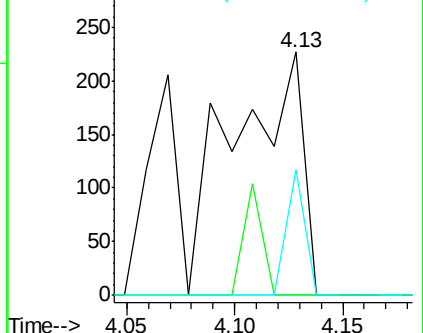
71 13.7 35.0 52.4#



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



#33

1,2-Dichloroethane-d4

Concen: 54.825 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF062100.D

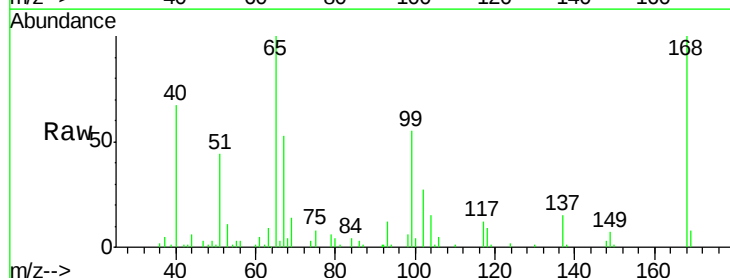
Acq: 23 Mar 2019 2:00

Tgt Ion: 65 Resp: 64872

Ion Ratio Lower Upper

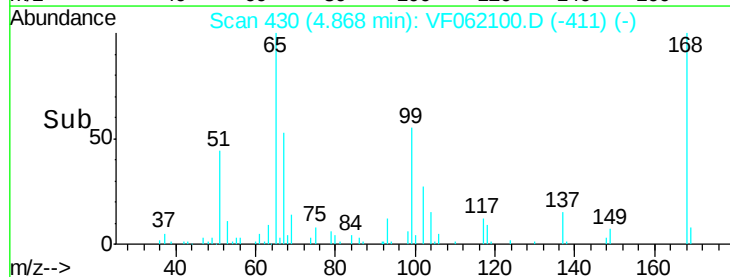
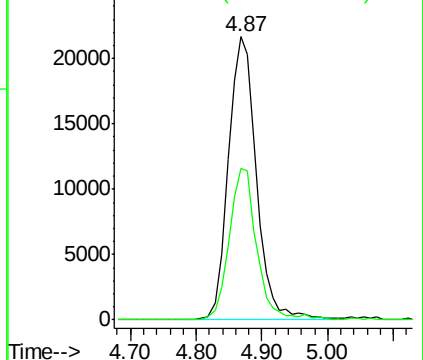
65 100

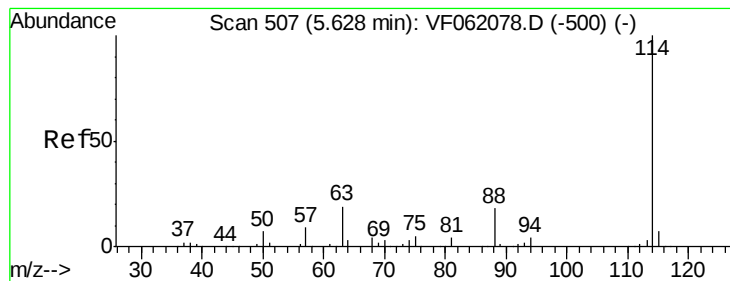
67 53.3 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.01 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampled :

CS-1

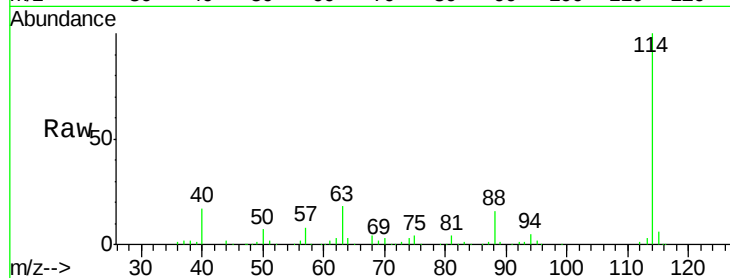
Tot Ion:114 Resp: 232730

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.8

88 16.0 0.0 36.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

100000

80000

60000

40000

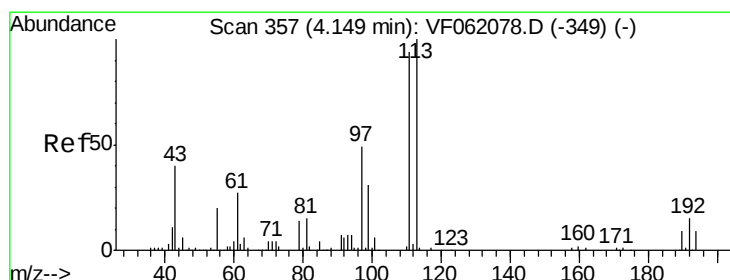
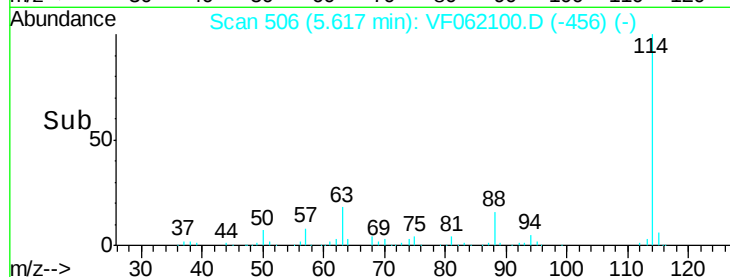
20000

0

5.62

5.50 5.60 5.70 5.80 5.90

Time-->



#35

Dibromofluoromethane

Concen: 59.784 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

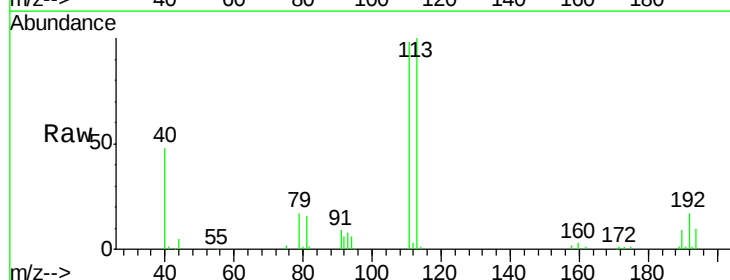
Tgt Ion:113 Resp: 94120

Ion Ratio Lower Upper

113 100

111 97.7 75.4 113.0

192 18.4 12.3 18.5



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

40000

30000

20000

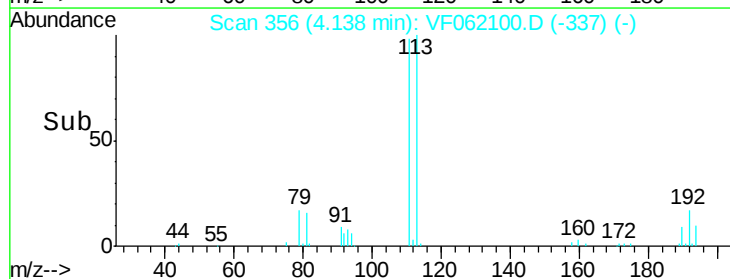
10000

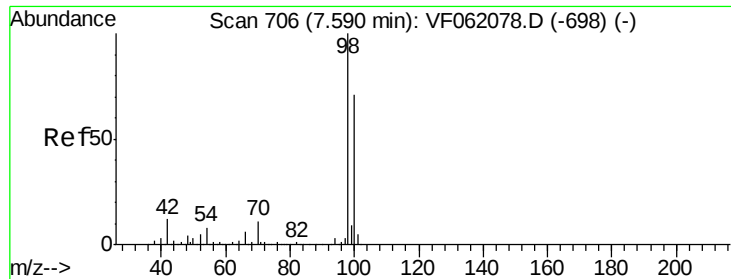
0

4.14

4.00 4.10 4.20 4.30

Time-->

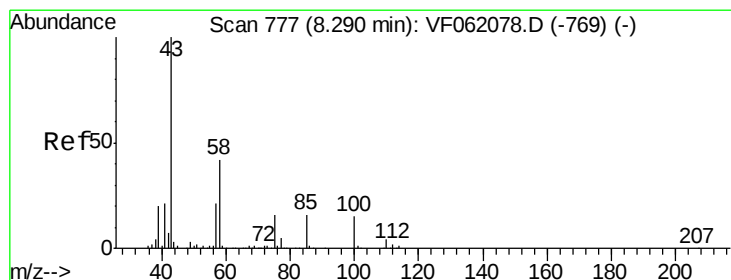
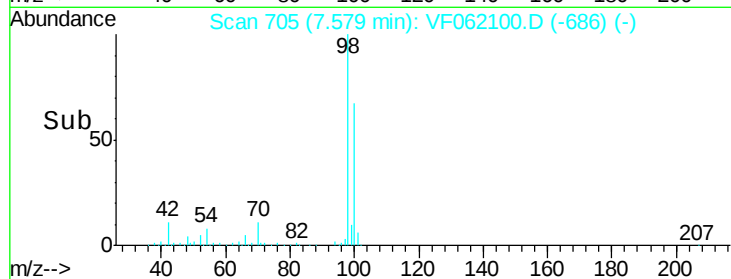
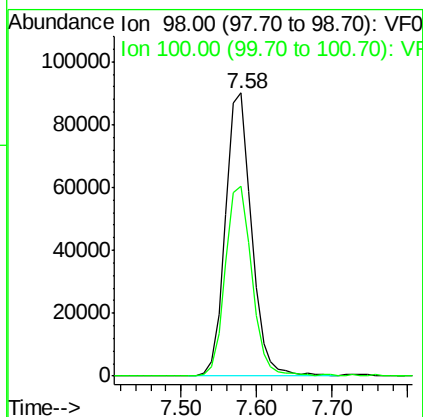
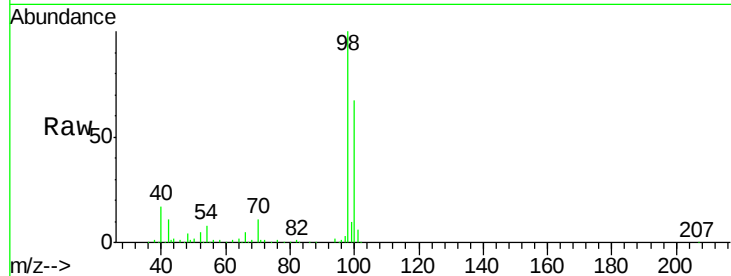




#50
Toluene-d8
Concen: 45.802 ug/l
RT: 7.58 min Scan# 705
Delta R.T. -0.01 min
Lab File: VF062100.D
Acq: 23 Mar 2019 2:00

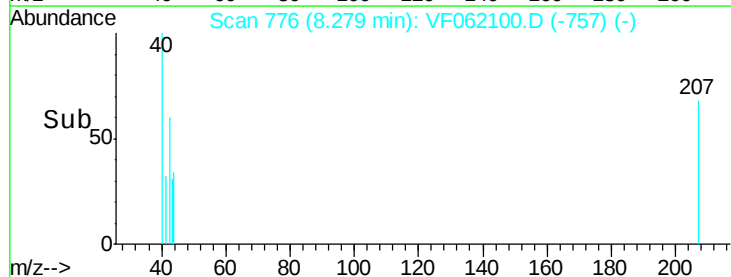
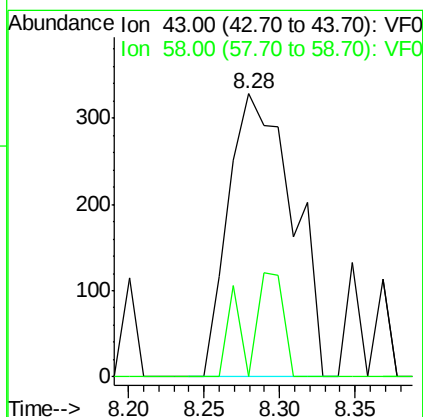
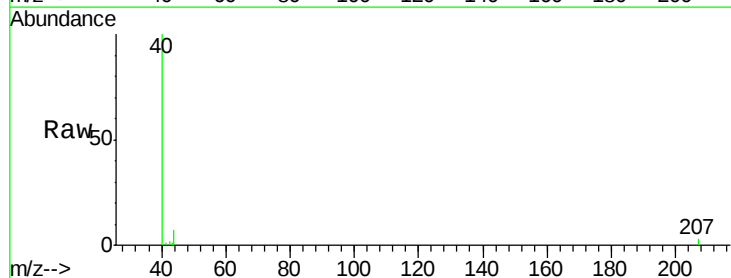
Instrument :
MSVOA_F
ClientSampled :
CS-1

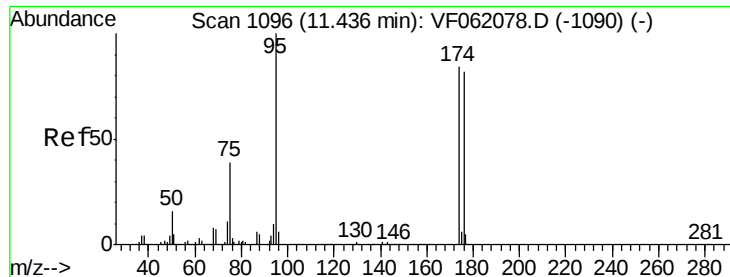
Tot Ion: 98 Resp: 215242
Ion Ratio Lower Upper
98 100
100 67.3 57.0 85.6



#51
4-Methyl-2-Pentanone
Concen: 1.239 ug/l
RT: 8.28 min Scan# 776
Delta R.T. -0.01 min
Lab File: VF062100.D
Acq: 23 Mar 2019 2:00

Tgt Ion: 43 Resp: 973
Ion Ratio Lower Upper
43 100
58 0.0 33.8 50.8#





#62

4-Bromofluorobenzene

Concen: 24.204 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampleId :

CS-1

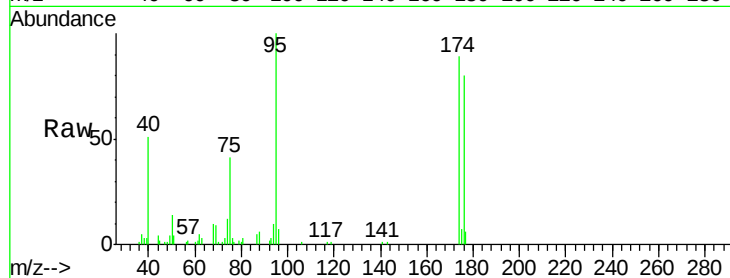
Tot Ion: 95 Resp: 43911

Ion Ratio Lower Upper

95 100

174 89.2 0.0 168.2

176 80.4 0.0 164.2

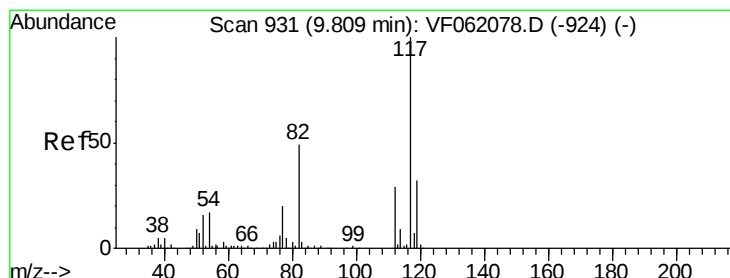
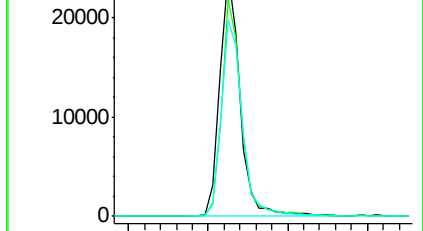
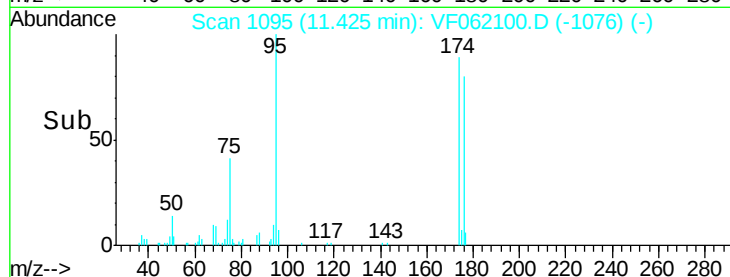


Abundance Ion 95.00 (94.70 to 95.70): VF062078.D (-1090) (-)

Ion 174.00 (173.70 to 174.70): VF062078.D (-1090) (-)

Ion 176.00 (175.70 to 176.70): VF062078.D (-1090) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

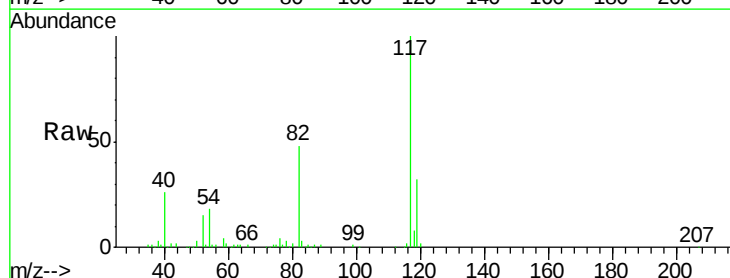
Tgt Ion: 117 Resp: 135979

Ion Ratio Lower Upper

117 100

82 48.5 39.2 58.8

119 32.5 25.4 38.2

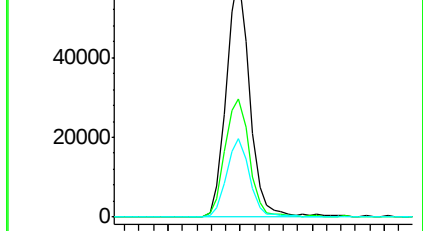
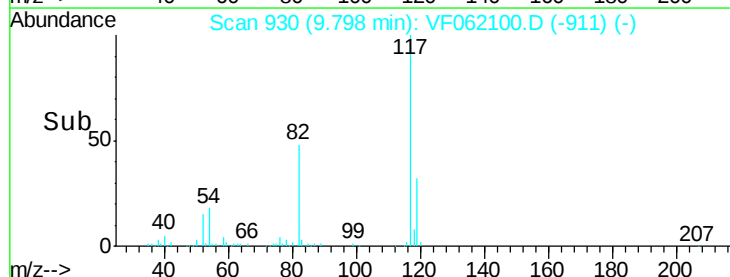


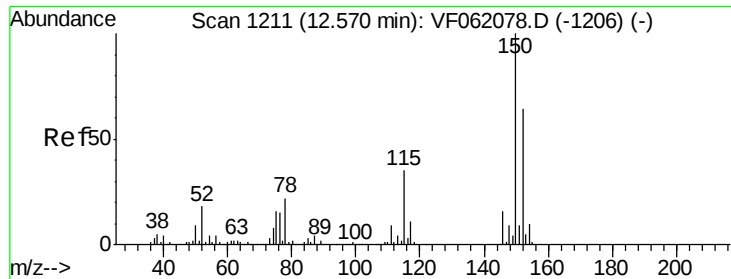
Abundance Ion 117.00 (116.70 to 117.70): VF062078.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF062078.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF062078.D (-924) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

Instrument :

MSVOA_F

ClientSampled :

CS-1

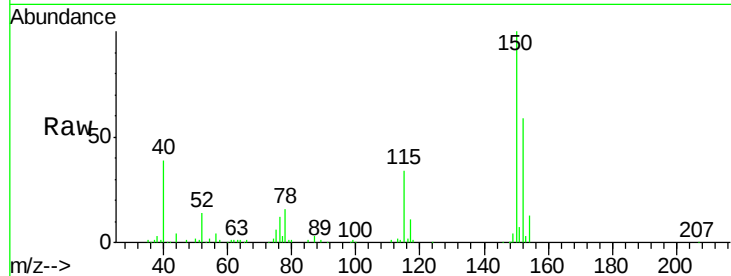
Tot Ion:152 Resp: 31311

Ion Ratio Lower Upper

152 100

115 57.7 27.7 83.1

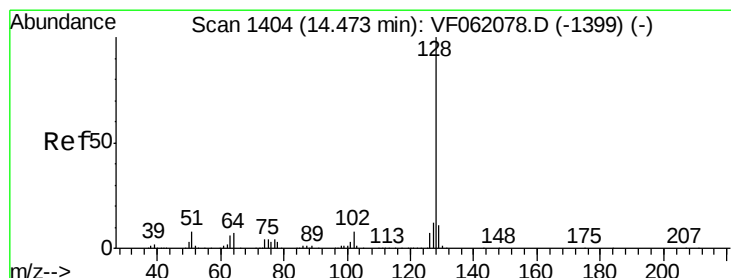
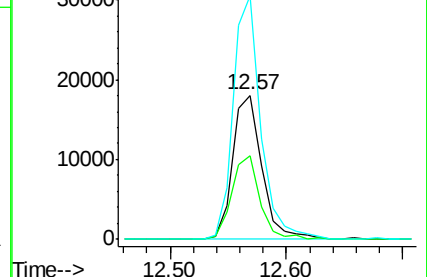
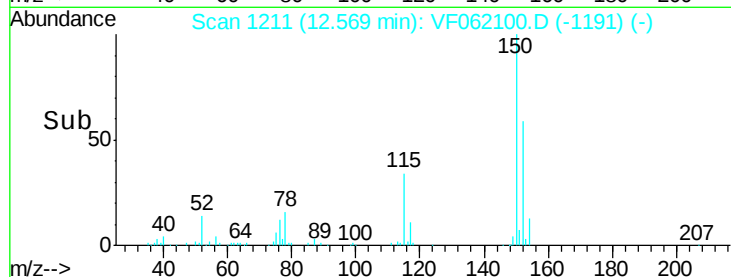
150 168.7 0.0 313.2



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



#95

Naphthalene

Concen: 1.407 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF062100.D

Acq: 23 Mar 2019 2:00

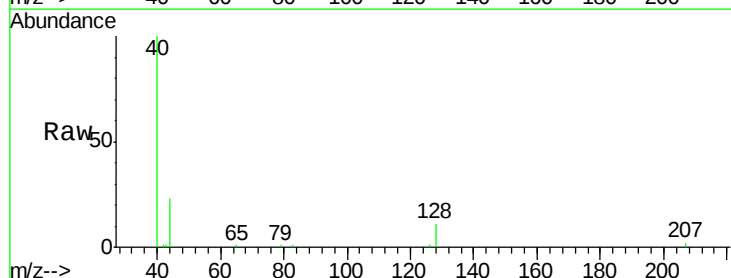
Tgt Ion:128 Resp: 1614

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

