

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061018.D
 Acq On : 14 Dec 2018 14:18
 Operator : VA/AP
 Sample : J6403-01RE
 Misc : 3.48g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:05:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

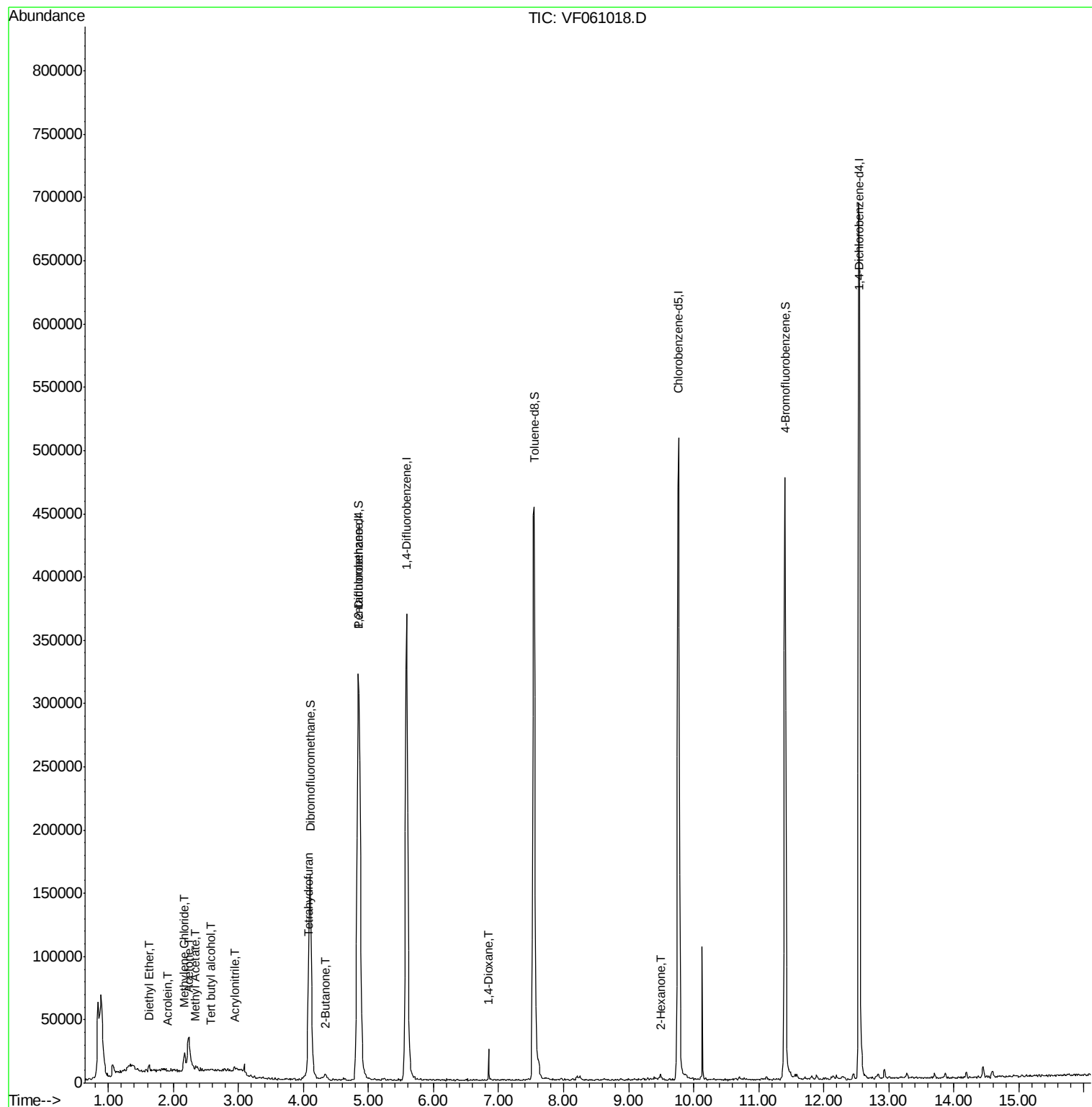
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	235752	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	423665	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.77	117	364398	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.55	152	181136	50.00	ug/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	140719	50.67	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	101.34%	
35) Dibromofluoromethane	4.09	113	156807	46.65	ug/l	-0.06
Spiked Amount 50.000			Recovery	=	93.30%	
50) Toluene-d8	7.55	98	392855	39.68	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	79.36%	
62) 4-Bromofluorobenzene	11.40	95	173743	38.61	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	77.22%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.63	74	1753	2.656	ug/l	78
11) Tert butyl alcohol	2.57	59	1342	11.788	ug/l #	48
13) Acrolein	1.92	56	446	4.135	ug/l	87
15) Acrylonitrile	2.93	53	631	2.472	ug/l #	65
16) Acetone	2.23	43	38456	75.089	ug/l	97
18) Methyl Acetate	2.34	43	3642	2.676	ug/l	93
20) Methylene Chloride	2.17	84	3260	1.735	ug/l	91
25) 2-Butanone	4.32	43	8398	9.480	ug/l	99
29) Tetrahydrofuran	4.07	42	1498	3.989	ug/l #	66
41) Methacrylonitrile	4.75	41	172	Below Cal	#	52
43) Isopropyl Acetate	6.94	43	323	Below Cal	#	49
49) 1,4-Dioxane	6.86	88	60	4.743	ug/l #	1
59) 2-Hexanone	9.49	43	2542	2.058	ug/l	93
95) Naphthalene	14.45	128	5685	Below Cal	#	93

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

Instrument :

MSVOA_F

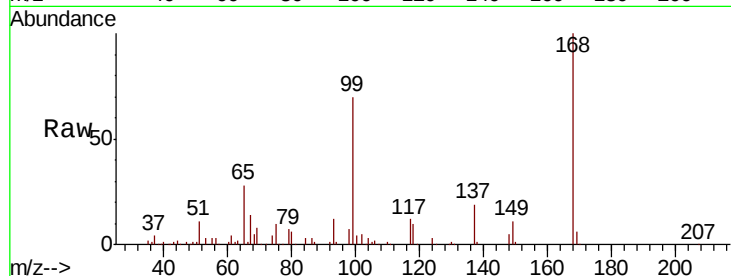
ClientSampleId :

Tot Ion:168 Resp: 235752

Ion Ratio Lower Upper

168 100

99 69.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

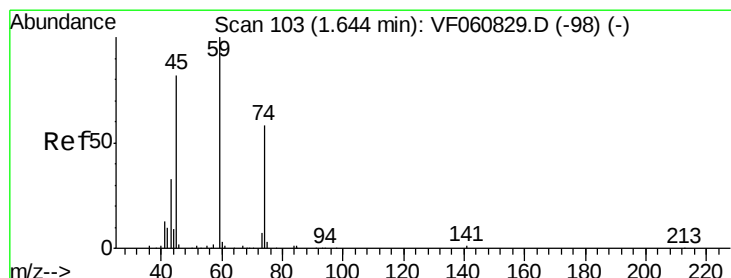
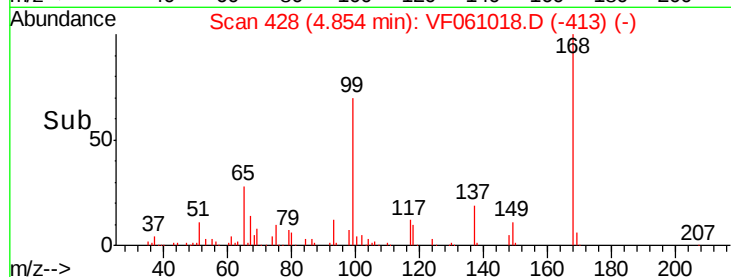
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.656 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF061018.D

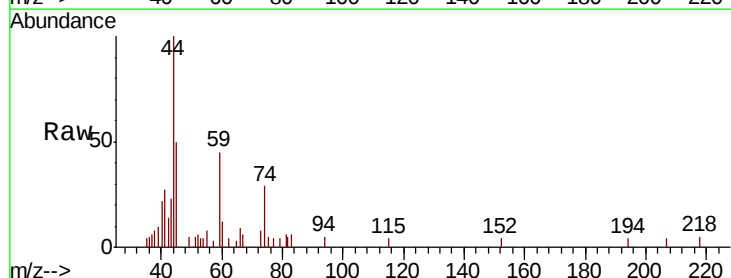
Acq: 14 Dec 2018 14:18

Tgt Ion: 74 Resp: 1753

Ion Ratio Lower Upper

74 100

45 169.5 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.63

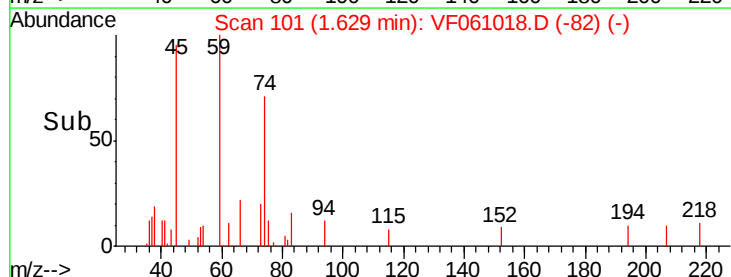
1500

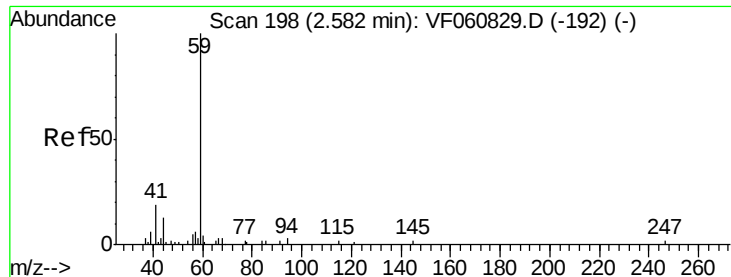
1000

500

0

Time-->





#11

Tert butyl alcohol

Concen: 11.788 ug/l

RT: 2.57 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

Instrument :

MSVOA_F

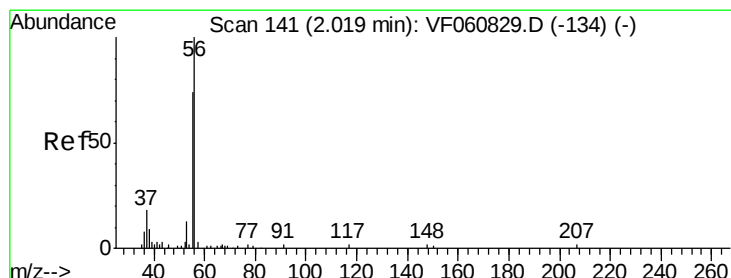
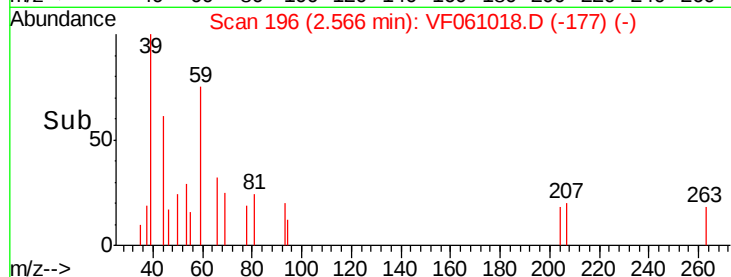
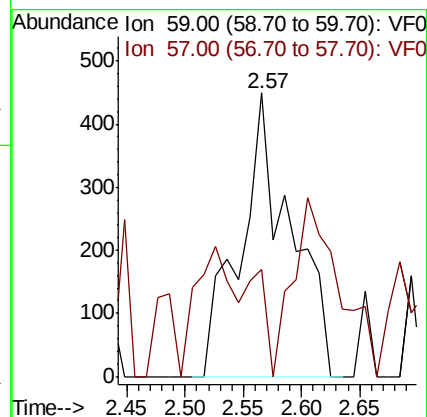
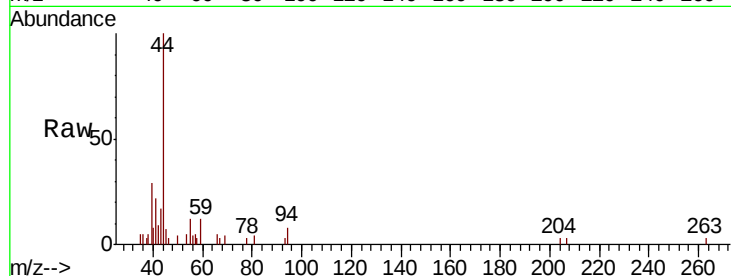
ClientSampled :

Tot Ion: 59 Resp: 1342

Ion Ratio Lower Upper

59 100

57 37.9 12.7 19.1#



#13

Acrolein

Concen: 4.135 ug/l

RT: 1.92 min Scan# 131

Delta R.T. -0.09 min

Lab File: VF061018.D

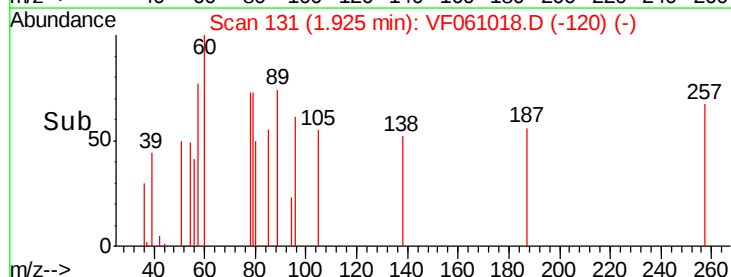
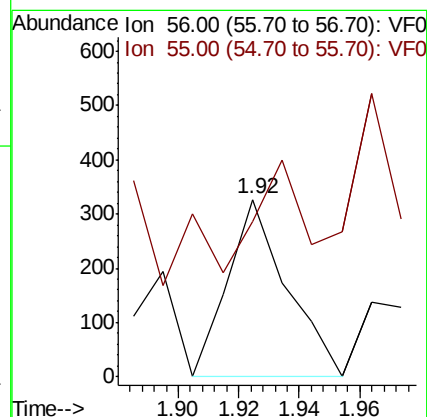
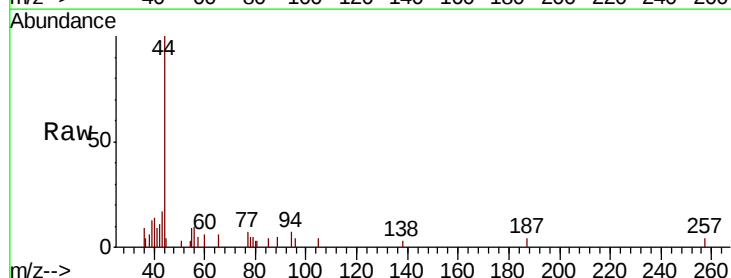
Acq: 14 Dec 2018 14:18

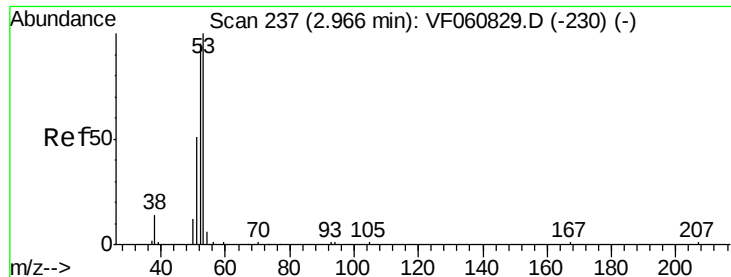
Tgt Ion: 56 Resp: 446

Ion Ratio Lower Upper

56 100

55 87.8 61.2 91.8





#15

Acrylonitrile

Concen: 2.472 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

Instrument :

MSVOA_F

ClientSampleId :

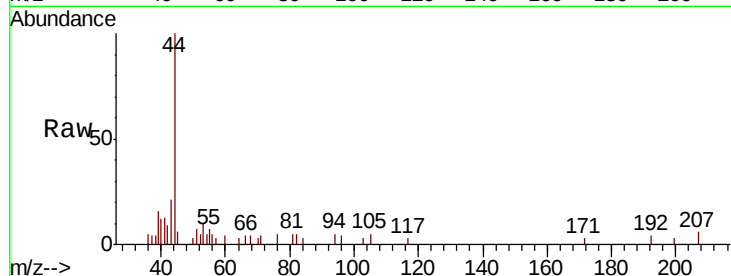
Tot Ion: 53 Resp: 631

Ion Ratio Lower Upper

53 100

52 54.7 76.5 114.7#

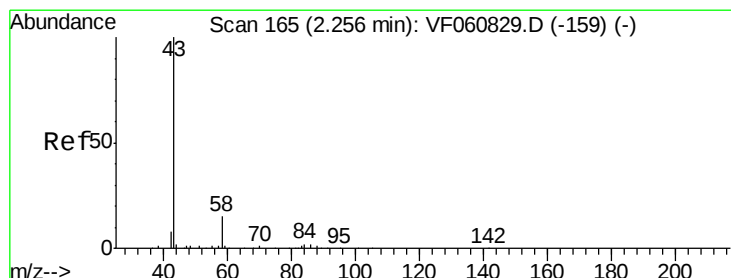
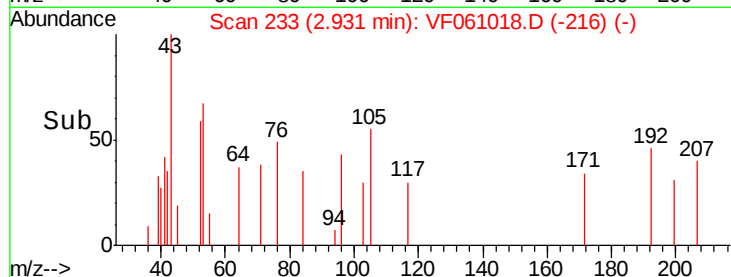
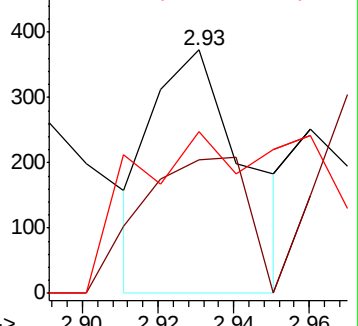
51 66.5 40.7 61.1#



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: 75.089 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061018.D

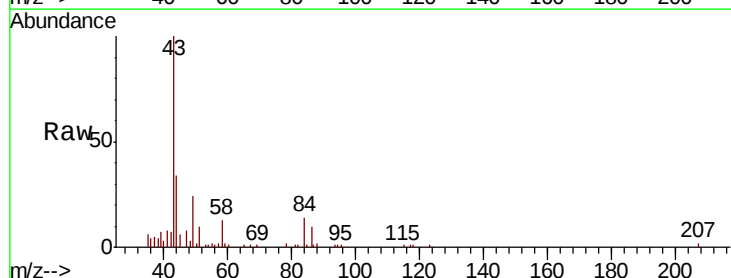
Acq: 14 Dec 2018 14:18

Tgt Ion: 43 Resp: 38456

Ion Ratio Lower Upper

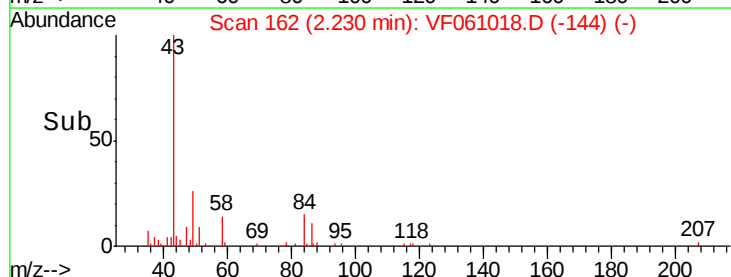
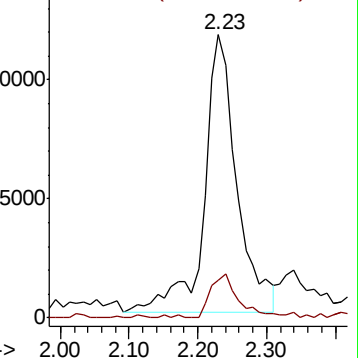
43 100

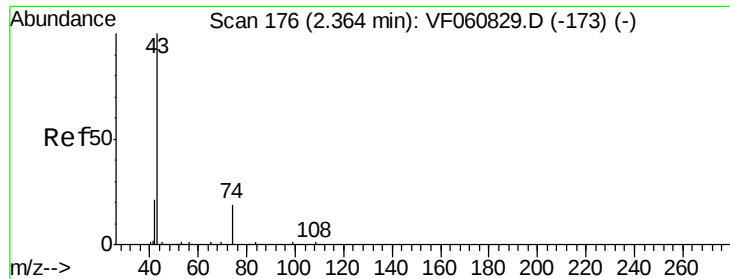
58 13.1 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

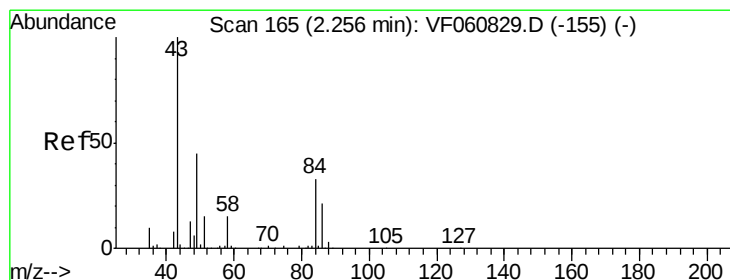
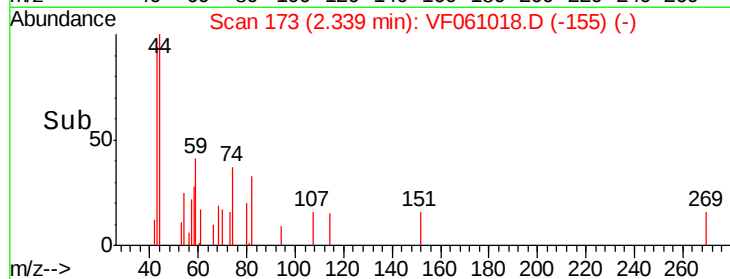
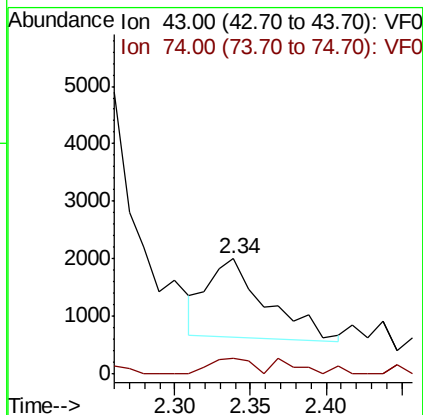
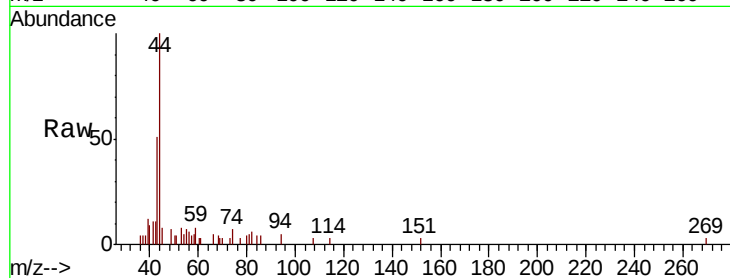




#18
Methyl Acetate
Concen: 2.676 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.03 min
Lab File: VF061018.D
Acq: 14 Dec 2018 14:18

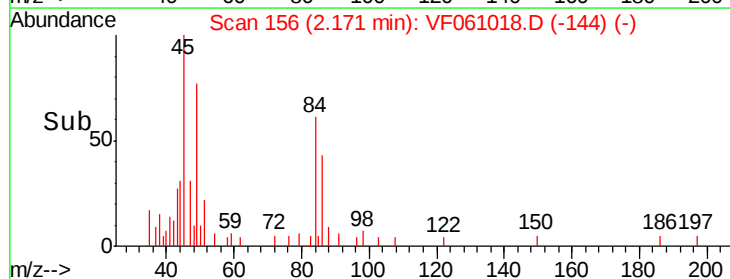
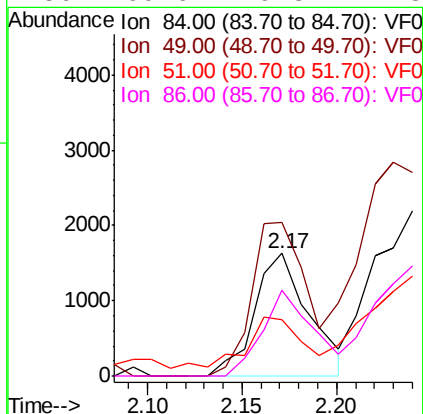
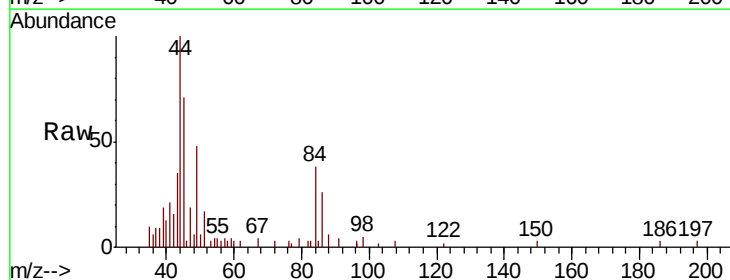
Instrument :
MSVOA_F
ClientSampled :

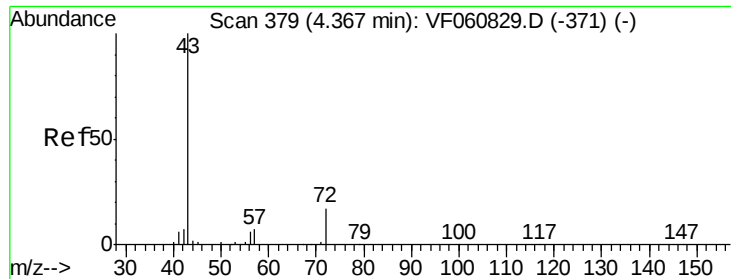
Tot Ion: 43 Resp: 3642
Ion Ratio Lower Upper
43 100
74 13.6 13.3 19.9



#20
Methylene Chloride
Concen: 1.735 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.08 min
Lab File: VF061018.D
Acq: 14 Dec 2018 14:18

Tgt Ion: 84 Resp: 3260
Ion Ratio Lower Upper
84 100
49 125.8 111.3 166.9
51 46.2 38.0 57.0
86 69.6 49.8 74.8





#25

2-Butanone

Concen: 9.480 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

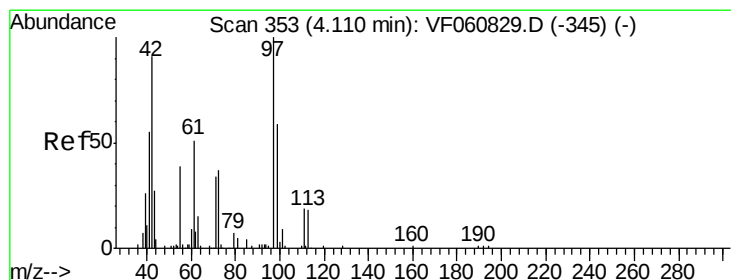
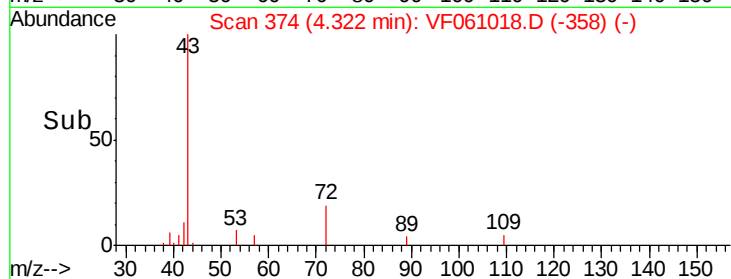
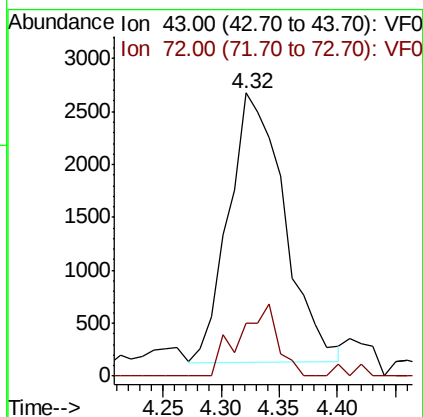
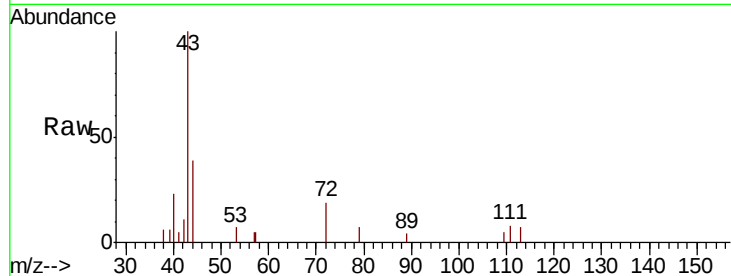
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 8398

Ion Ratio Lower Upper

43 100

72 18.8 15.4 23.2



#29

Tetrahydrofuran

Concen: 3.989 ug/l

RT: 4.07 min Scan# 348

Delta R.T. -0.05 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

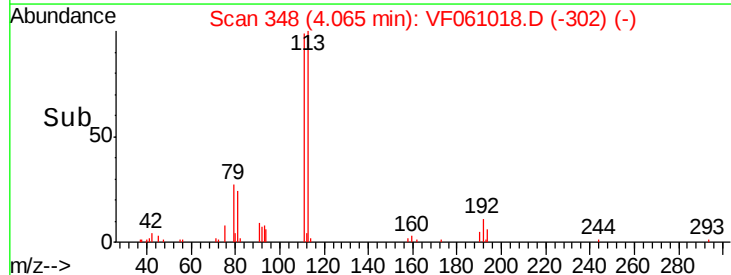
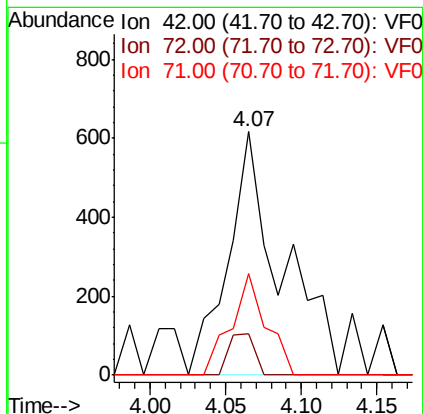
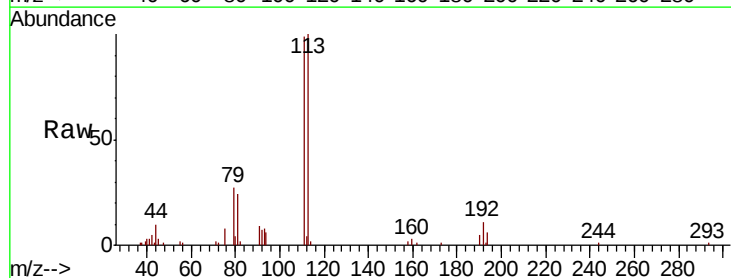
Tgt Ion: 42 Resp: 1498

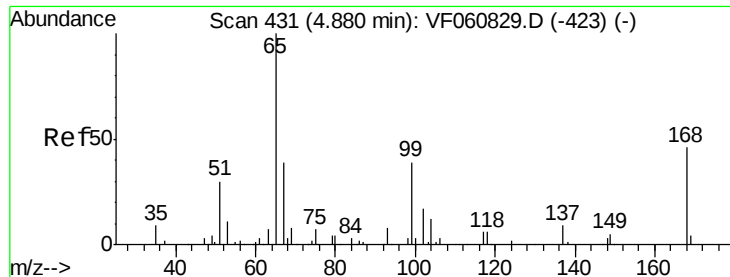
Ion Ratio Lower Upper

42 100

72 8.0 31.9 47.9#

71 27.7 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 50.669 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

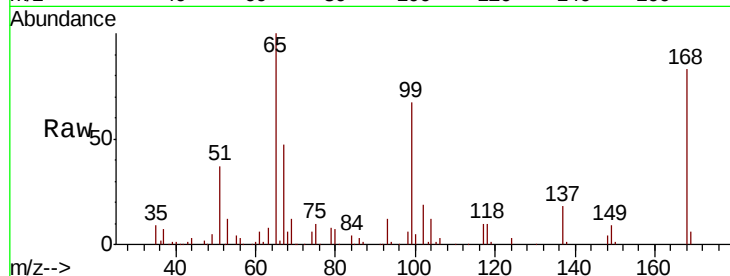
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 140719

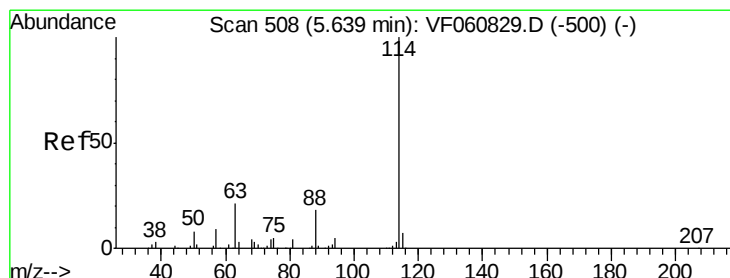
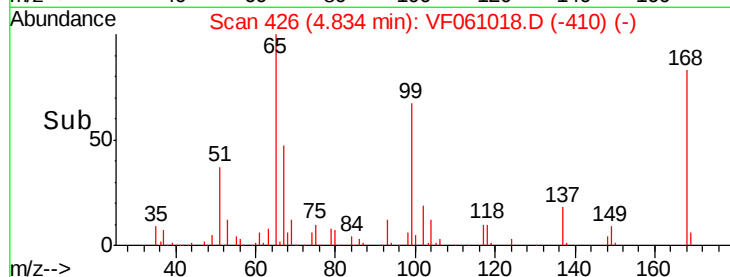
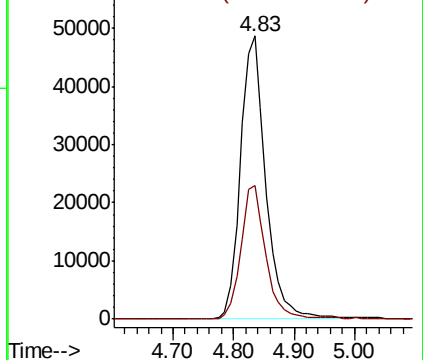
Ion Ratio Lower Upper

65 100

67 47.3 0.0 96.4



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: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

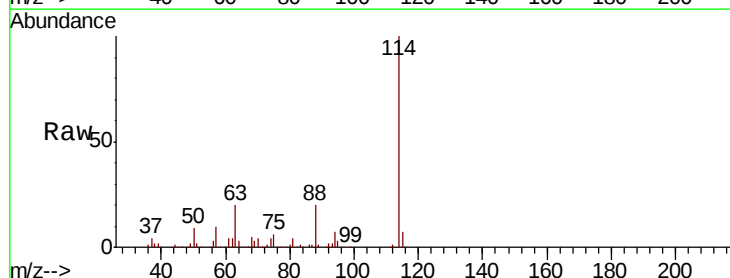
Tgt Ion: 114 Resp: 423665

Ion Ratio Lower Upper

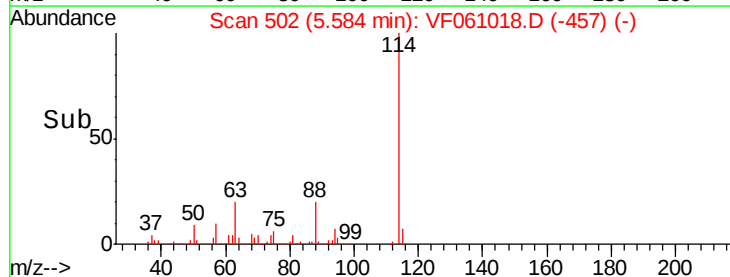
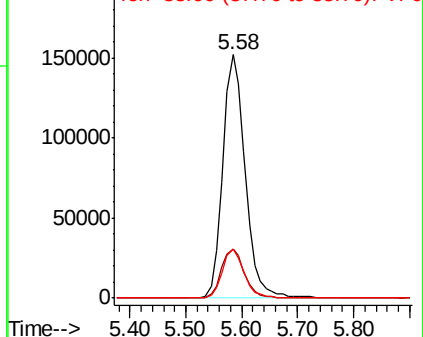
114 100

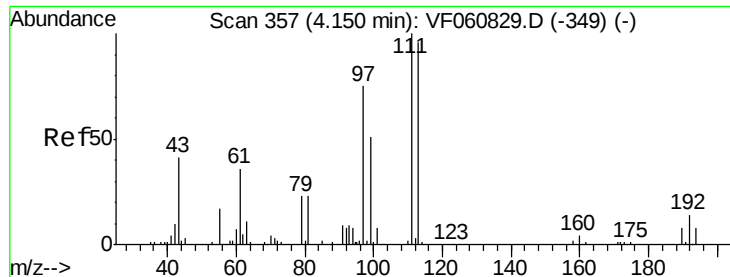
63 19.9 0.0 41.6

88 19.9 0.0 36.6



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

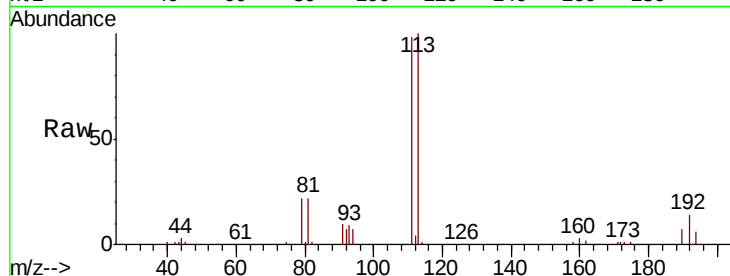




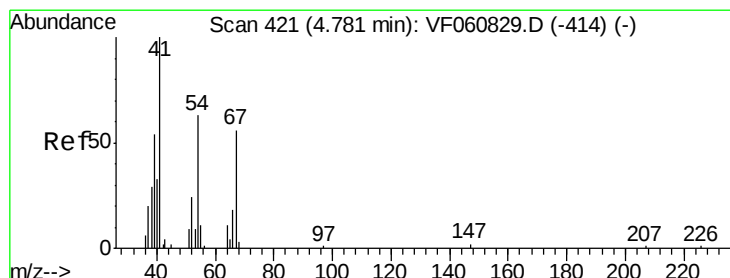
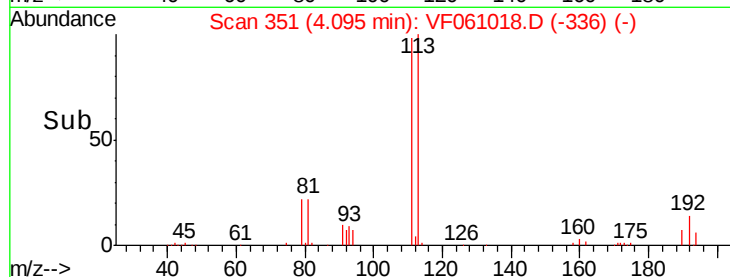
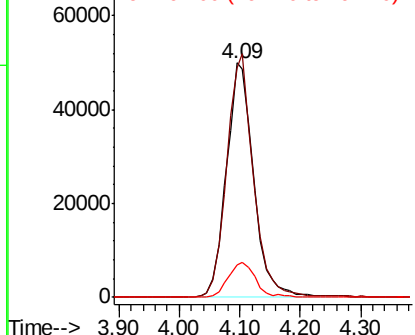
#35
Dibromofluoromethane
Concen: 46.654 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.06 min
Lab File: VF061018.D
Acq: 14 Dec 2018 14:18

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 156807
Ion Ratio Lower Upper
113 100
111 98.0 83.0 124.6
192 13.6 12.3 18.5

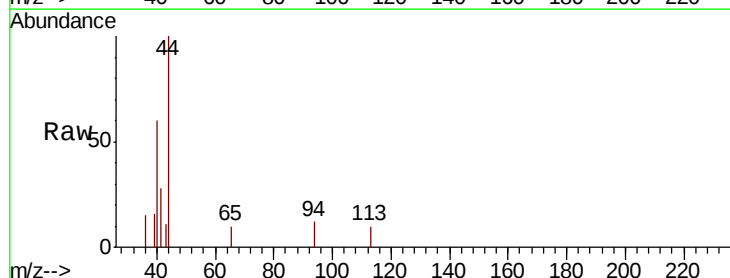


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

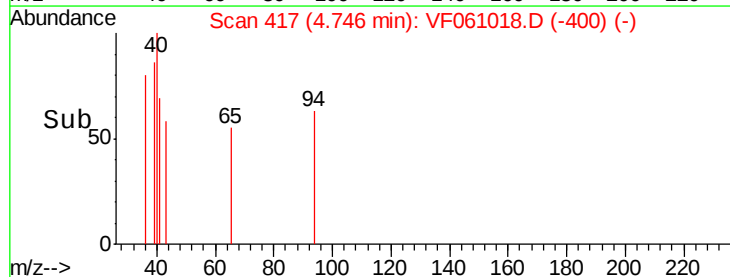
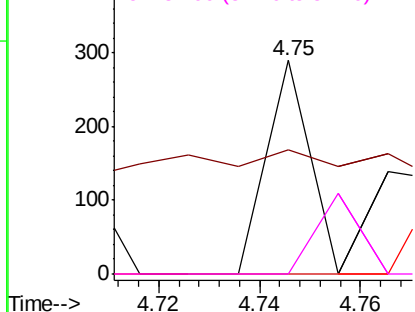


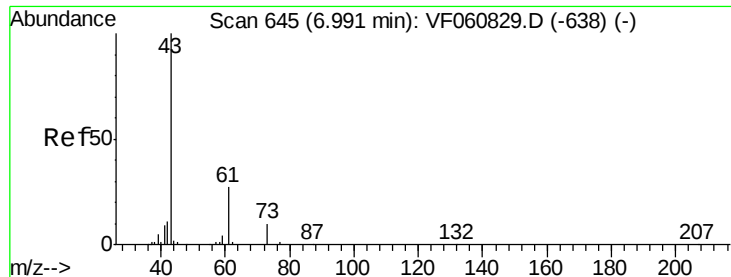
#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF061018.D
Acq: 14 Dec 2018 14:18

Tgt Ion: 41 Resp: 172
Ion Ratio Lower Upper
41 100
39 58.3 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



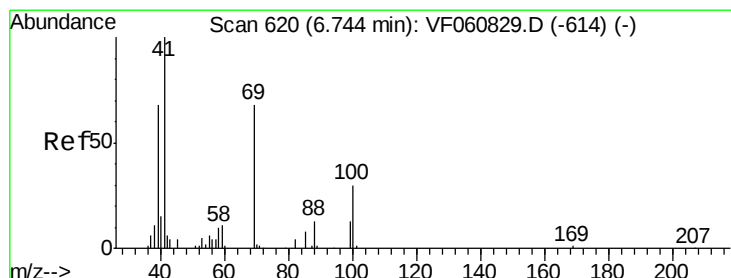
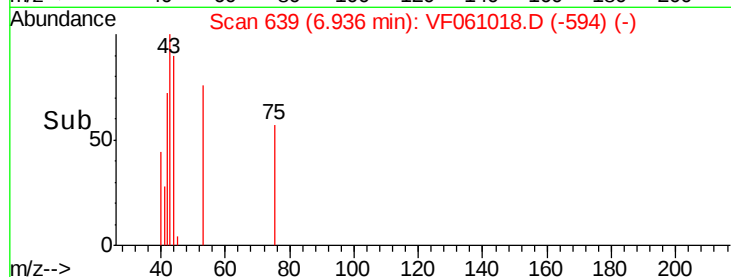
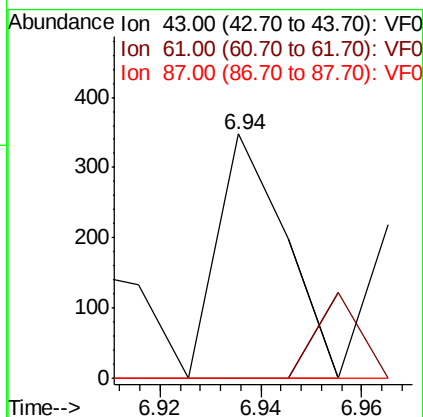
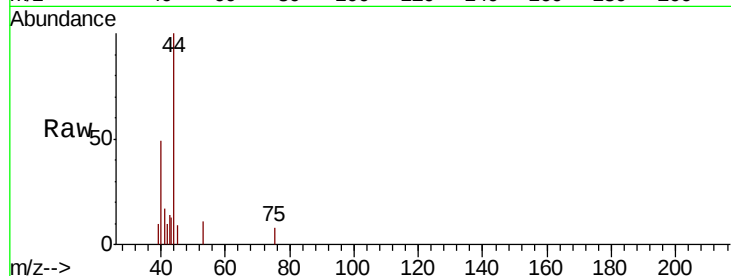


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 639
 Delta R.T. -0.05 min
 Lab File: VF061018.D
 Acq: 14 Dec 2018 14:18

Instrument :
 MSVOA_F
 ClientSampleId :

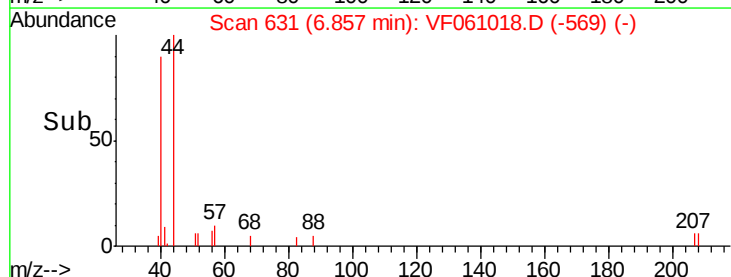
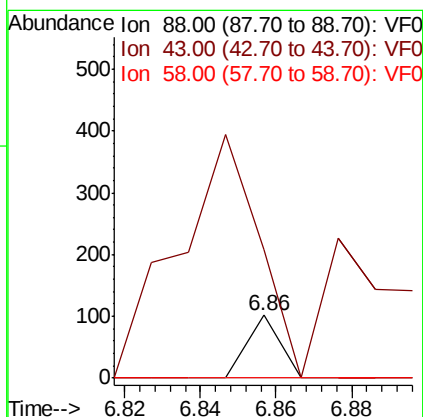
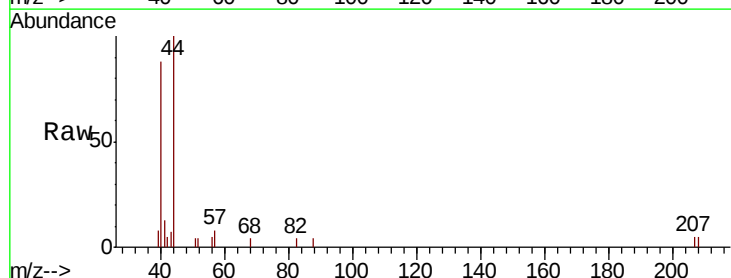
Tot Ion: 43 Resp: 323
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

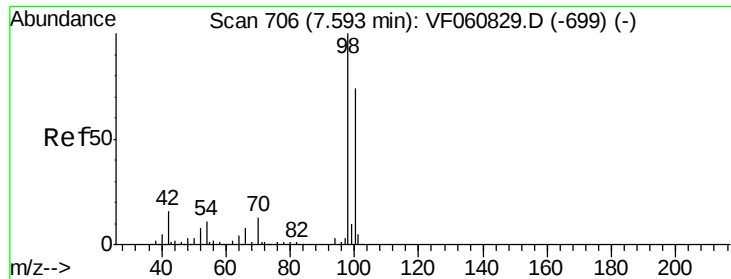


#49

1,4-Dioxane
 Concen: 4.743 ug/l
 RT: 6.86 min Scan# 631
 Delta R.T. 0.11 min
 Lab File: VF061018.D
 Acq: 14 Dec 2018 14:18

Tgt Ion: 88 Resp: 60
 Ion Ratio Lower Upper
 88 100
 43 202.9 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 39.680 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

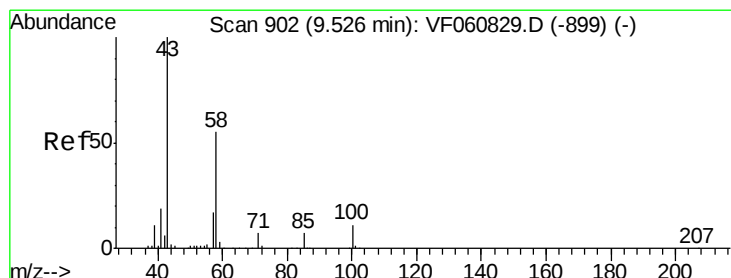
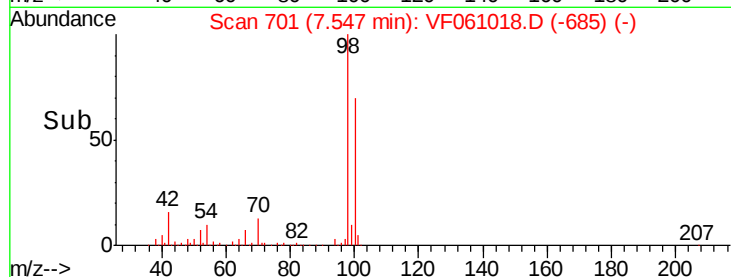
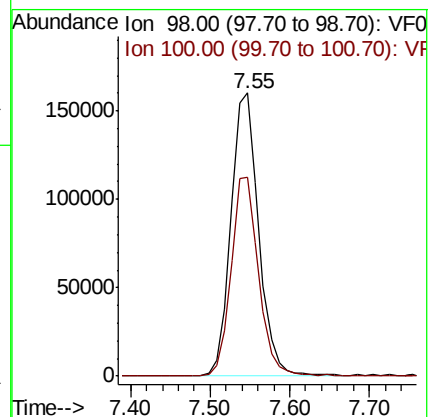
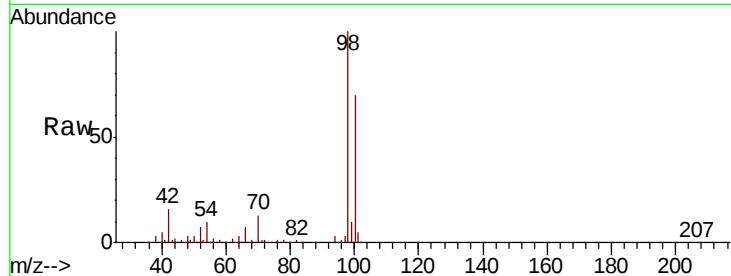
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 392855

Ion Ratio Lower Upper

98 100

100 70.3 59.3 88.9



#59

2-Hexanone

Concen: 2.058 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.04 min

Lab File: VF061018.D

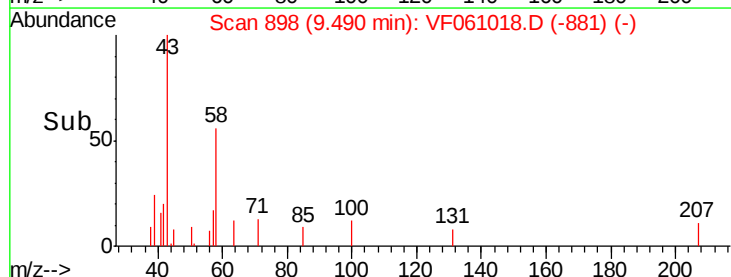
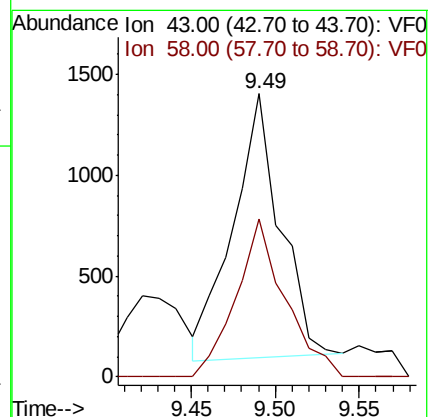
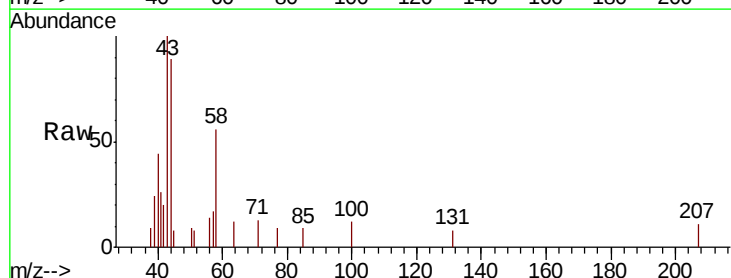
Acq: 14 Dec 2018 14:18

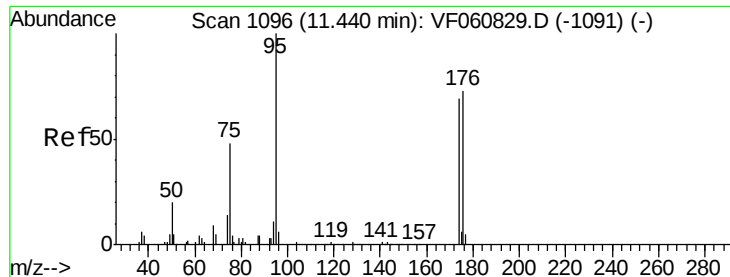
Tgt Ion: 43 Resp: 2542

Ion Ratio Lower Upper

43 100

58 55.7 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 38.612 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

Instrument :

MSVOA_F

ClientSampleId :

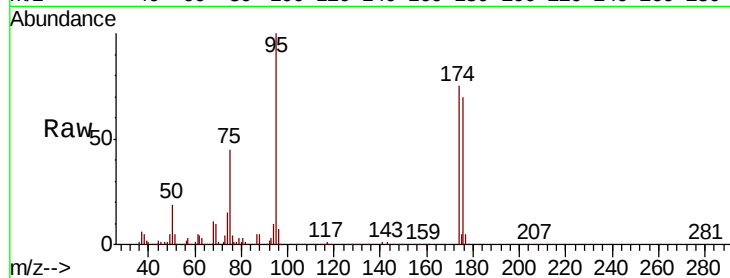
Tot Ion: 95 Resp: 173743

Ion Ratio Lower Upper

95 100

174 75.2 0.0 138.2

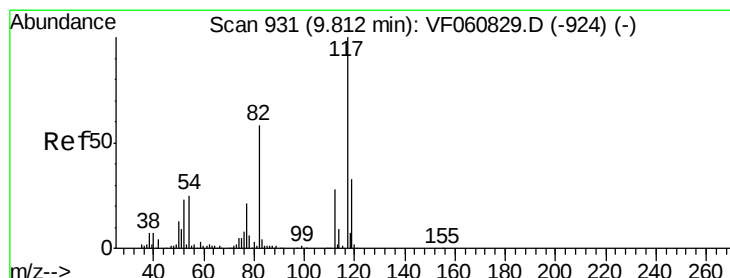
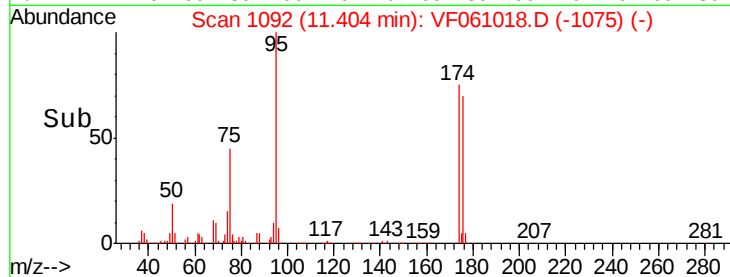
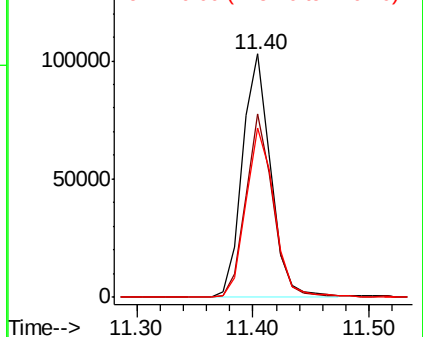
176 69.6 0.0 146.2



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: 9.77 min Scan# 926

Delta R.T. -0.05 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

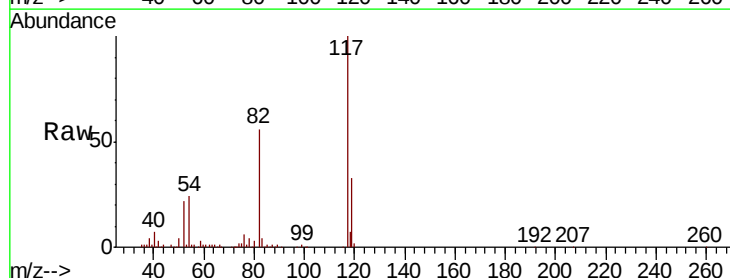
Tgt Ion: 117 Resp: 364398

Ion Ratio Lower Upper

117 100

82 56.1 46.6 69.8

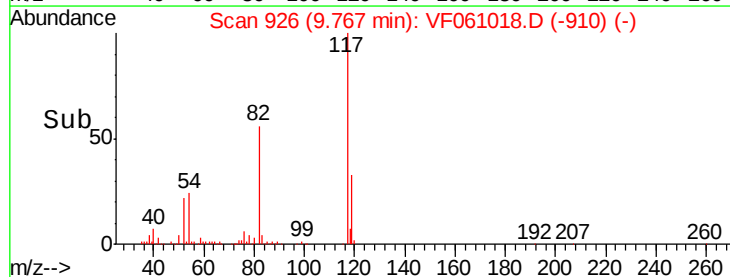
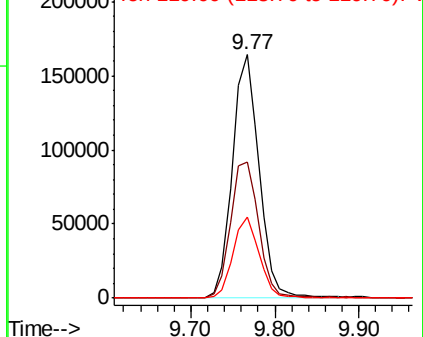
119 33.3 26.4 39.6

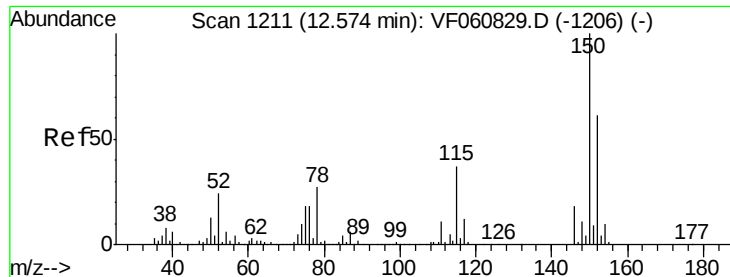


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

Instrument :

MSVOA_F

ClientSampled :

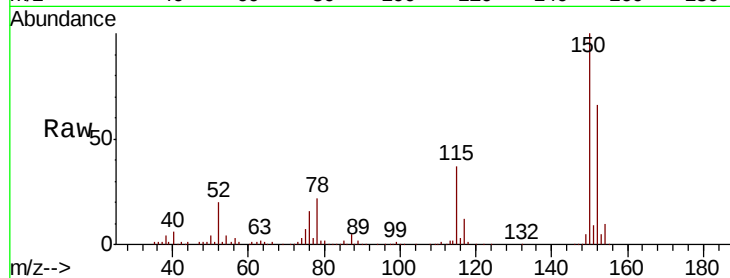
Tot Ion:152 Resp: 181136

Ion Ratio Lower Upper

152 100

115 55.6 30.1 90.5

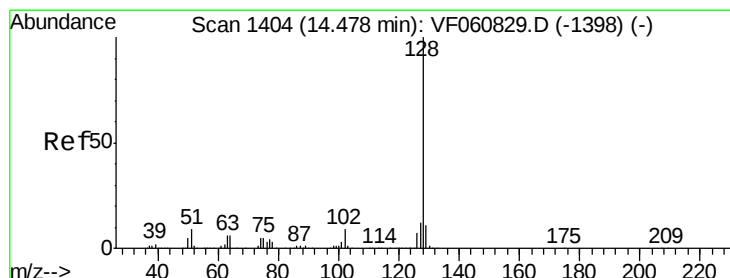
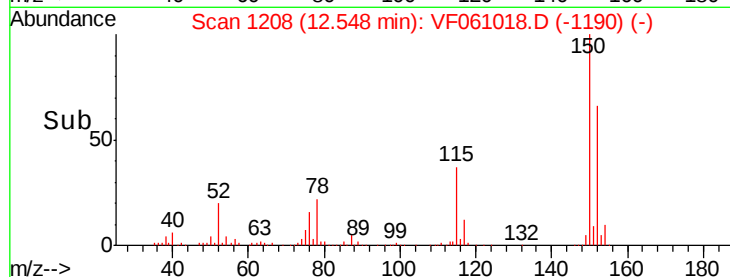
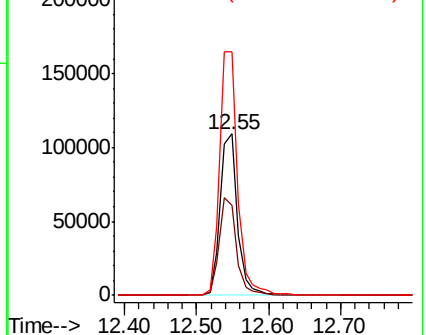
150 150.8 0.0 327.6



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: Below Cal

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061018.D

Acq: 14 Dec 2018 14:18

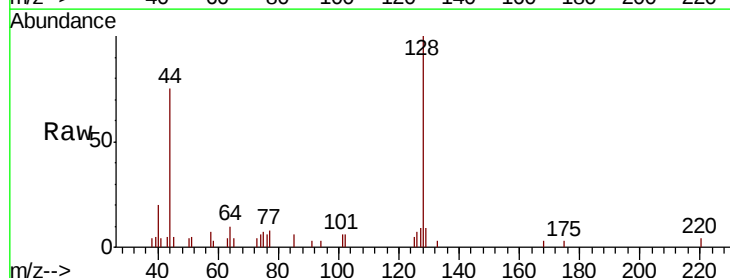
Tgt Ion:128 Resp: 5685

Ion Ratio Lower Upper

128 100

127 9.4 9.9 14.9#

129 9.0 9.1 13.7#



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

