

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061152.D
 Acq On : 22 Dec 2018 18:52
 Operator : VA/AP
 Sample : J6200-01RE
 Misc : 6.12g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TR-05-122018RE

Quant Time: Dec 24 02:58:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	180231	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	330099	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.79	117	228650	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	98279	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	132141	57.00	ug/l	0.02
Spiked Amount 50.000			Recovery =	114.00%		
35) Dibromofluoromethane	4.13	113	133474	50.48	ug/l	0.02
Spiked Amount 50.000			Recovery =	100.96%		
50) Toluene-d8	7.57	98	188878	25.21	ug/l	0.02
Spiked Amount 50.000			Recovery =	50.42%		
62) 4-Bromofluorobenzene	11.42	95	114915	33.26	ug/l	0.00
Spiked Amount 50.000			Recovery =	66.52%		

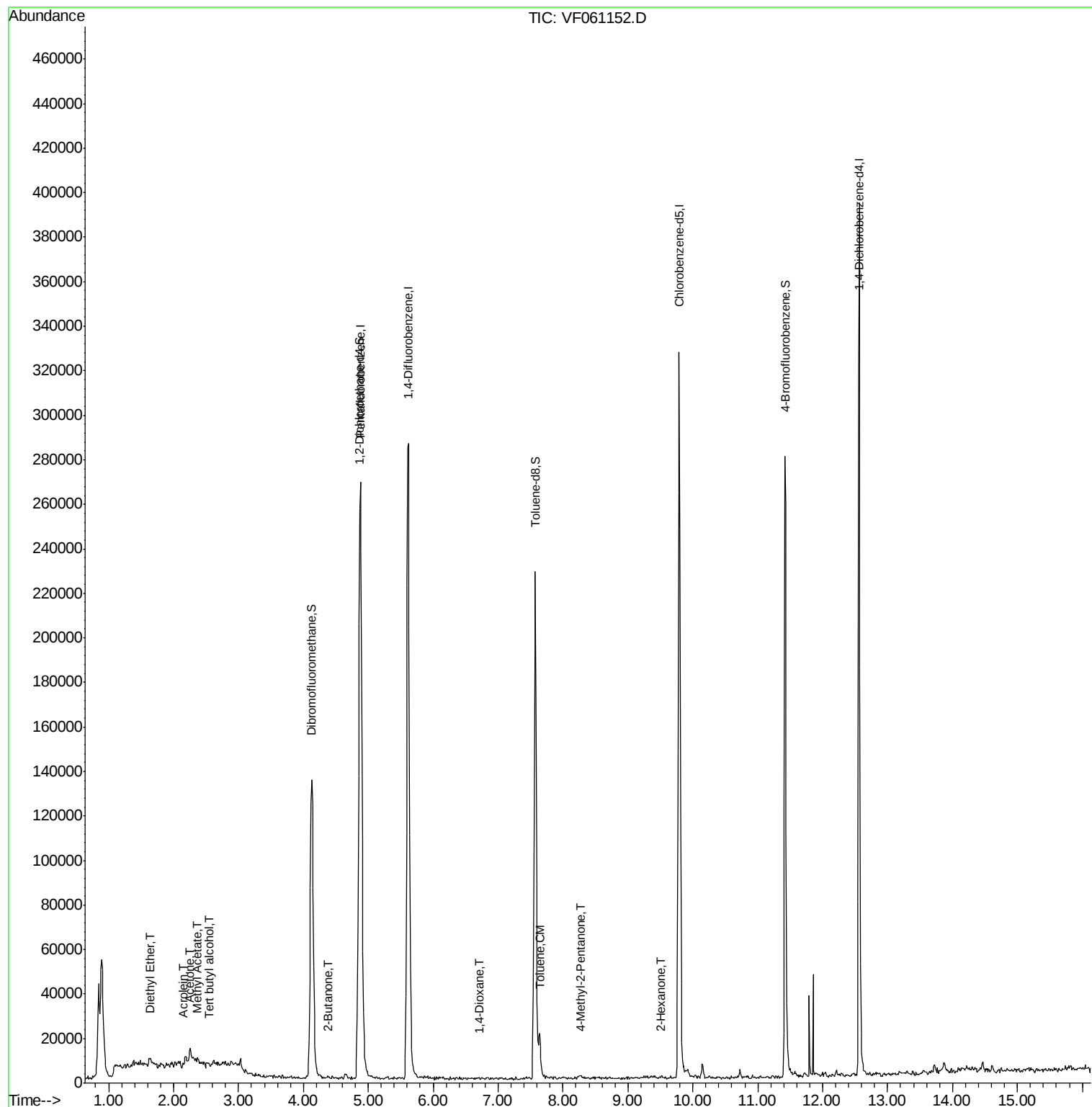
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.64	74	1149	2.064	ug/l	67
11) Tert butyl alcohol	2.55	59	115	1.229	ug/l #	1
13) Acrolein	2.15	56	197	2.914	ug/l	97
16) Acetone	2.25	43	4091	8.828	ug/l	94
18) Methyl Acetate	2.35	43	2836	2.958	ug/l #	66
20) Methylene Chloride	2.27	84	3904	Below Cal	#	72
25) 2-Butanone	4.37	43	1569	2.088	ug/l #	57
49) 1,4-Dioxane	6.71	88	65	6.670	ug/l #	18
51) 4-Methyl-2-Pentanone	8.28	43	1743	1.321	ug/l #	86
52) Toluene	7.64	92	10028	1.768	ug/l	96
59) 2-Hexanone	9.51	43	1341	1.405	ug/l	97
70) Styrene	10.81	104	236	Below Cal	#	49
78) n-propylbenzene	11.61	91	676	Below Cal		100
87) 1,3-Dichlorobenzene	12.48	146	152	Below Cal	#	25

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

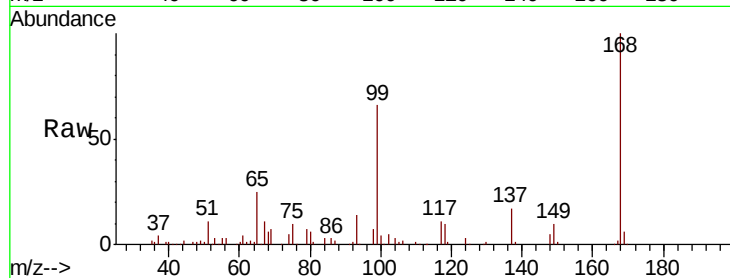
TR-05-122018RE

Tot Ion:168 Resp: 180231

Ion Ratio Lower Upper

168 100

99 66.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

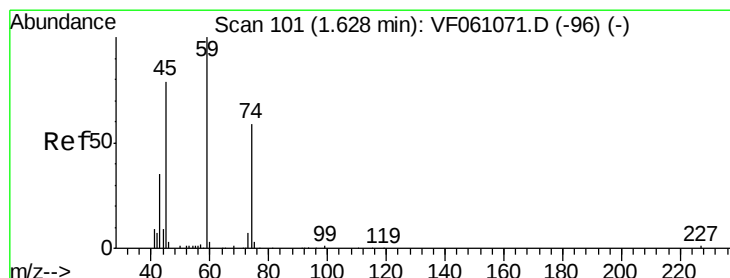
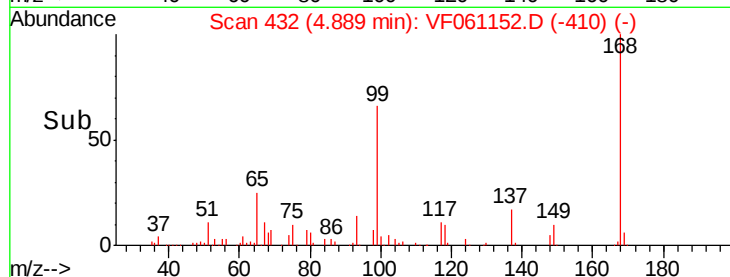
40000

20000

0

Time-->

4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 2.064 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.02 min

Lab File: VF061152.D

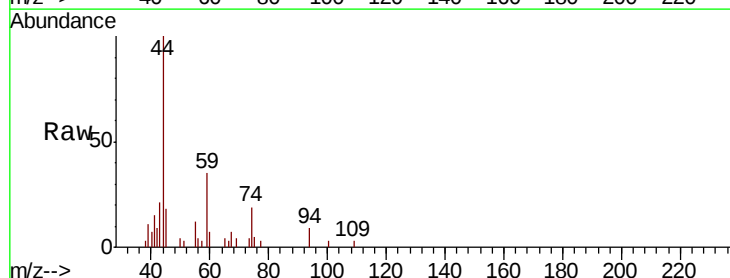
Acq: 22 Dec 2018 18:52

Tgt Ion: 74 Resp: 1149

Ion Ratio Lower Upper

74 100

45 96.5 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1200

1000

800

600

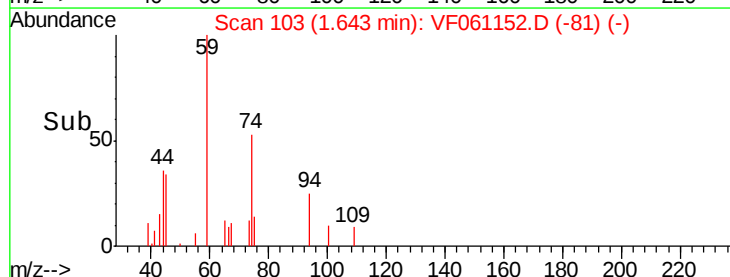
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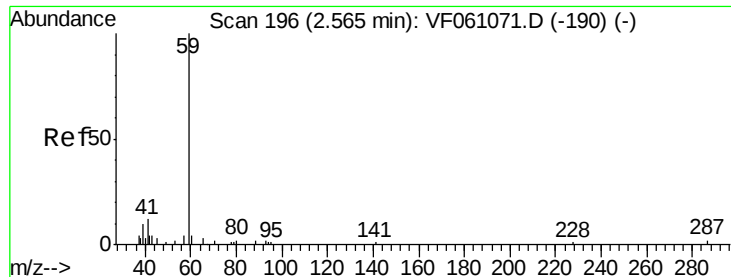
200

0

Time-->

1.60 1.65 1.70

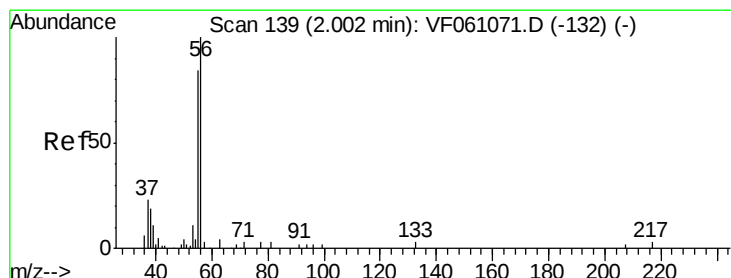
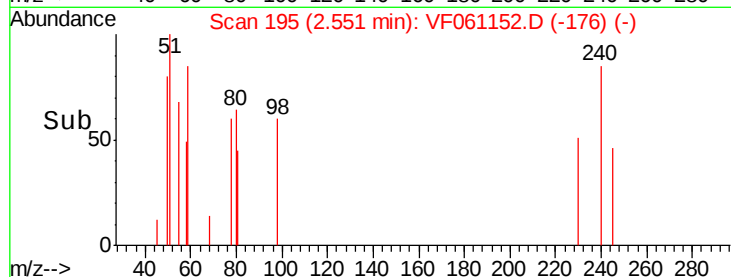
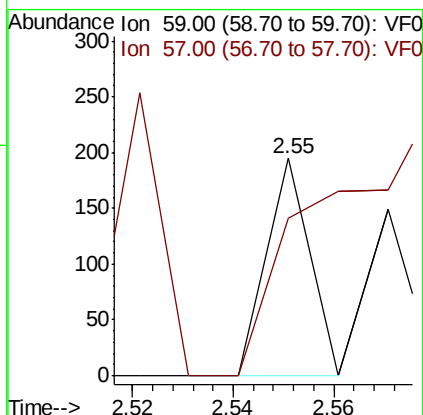
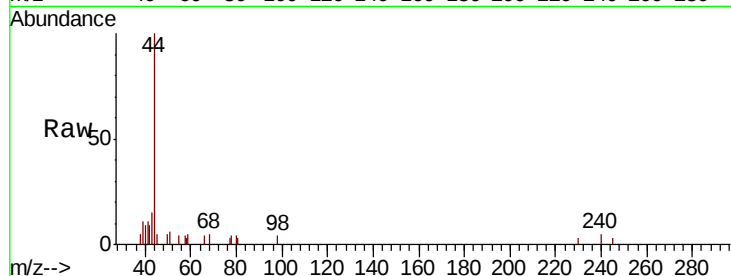




#11
Tert butyl alcohol
Concen: 1.229 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

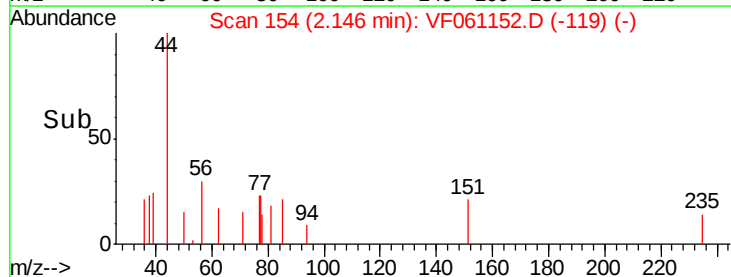
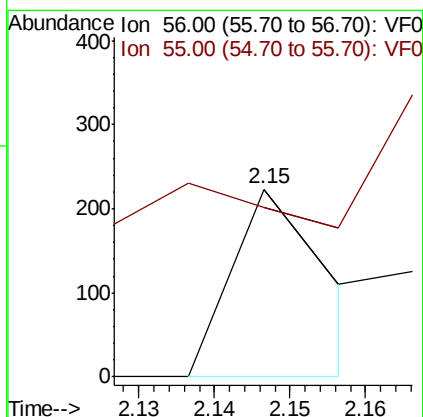
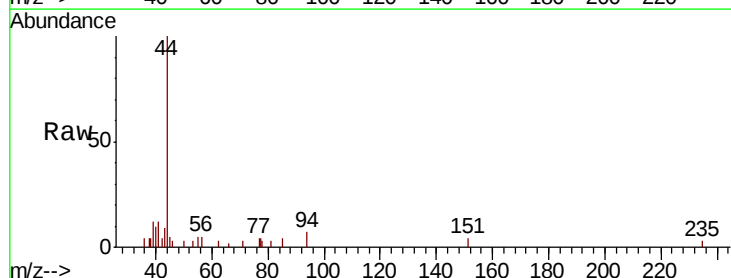
Instrument :
MSVOA_F
ClientSampleId :
TR-05-122018RE

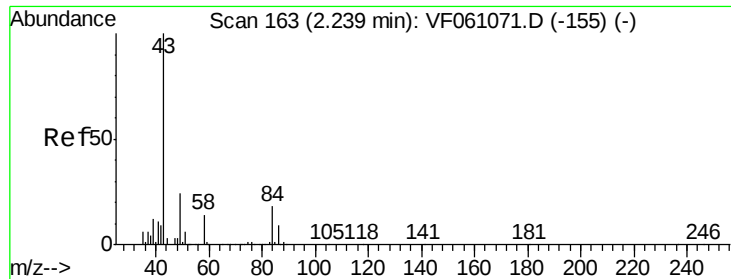
Tot Ion: 59 Resp: 115
Ion Ratio Lower Upper
59 100
57 72.3 11.5 17.3#



#13
Acrolein
Concen: 2.914 ug/l
RT: 2.15 min Scan# 154
Delta R.T. 0.14 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 90.6 70.2 105.2

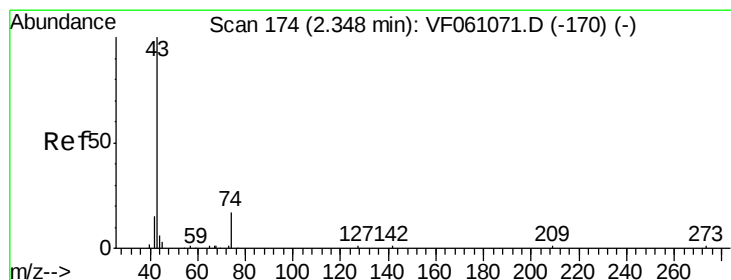
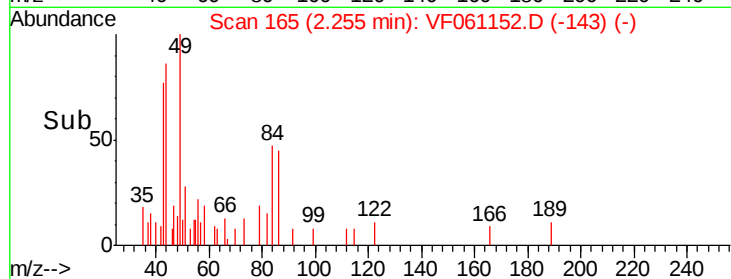
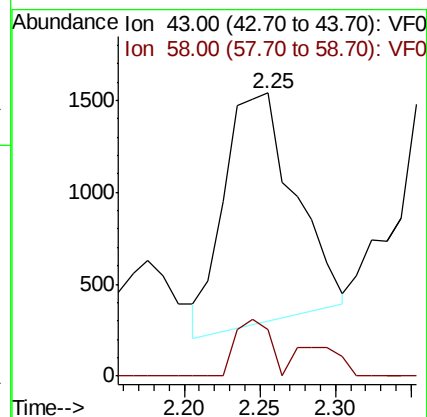
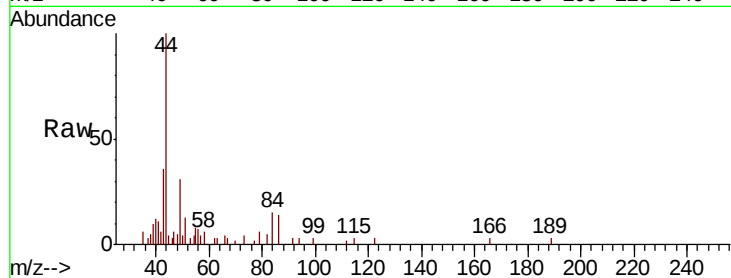




#16
Acetone
Concen: 8.828 ug/l
RT: 2.25 min Scan# 165
Delta R.T. 0.02 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

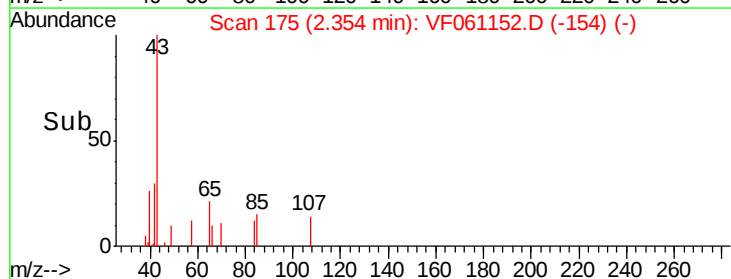
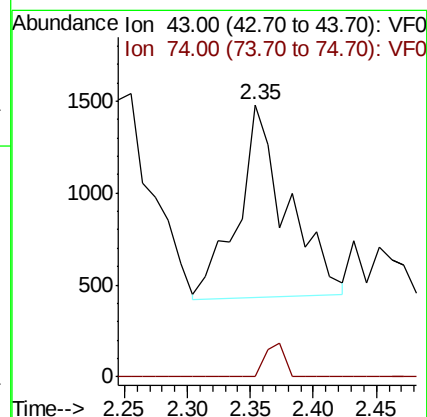
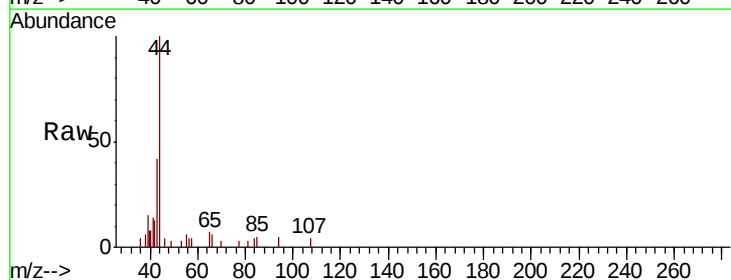
Instrument :
MSVOA_F
ClientSampleId :
TR-05-122018RE

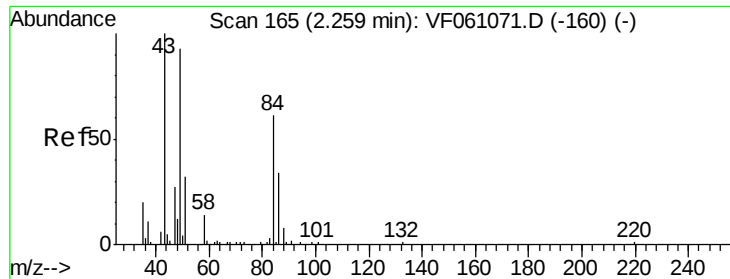
Tot Ion: 43 Resp: 4091
Ion Ratio Lower Upper
43 100
58 16.3 11.1 16.7



#18
Methyl Acetate
Concen: 2.958 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

Tgt Ion: 43 Resp: 2836
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

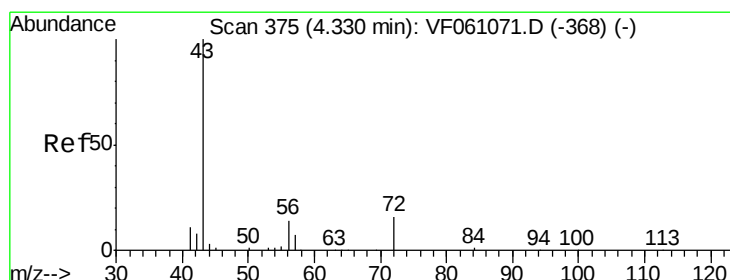
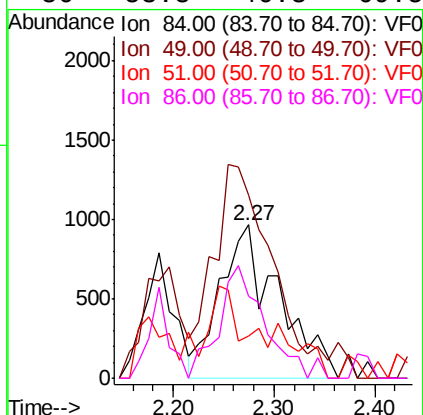
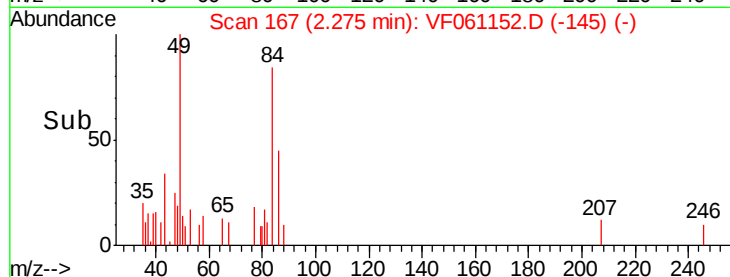
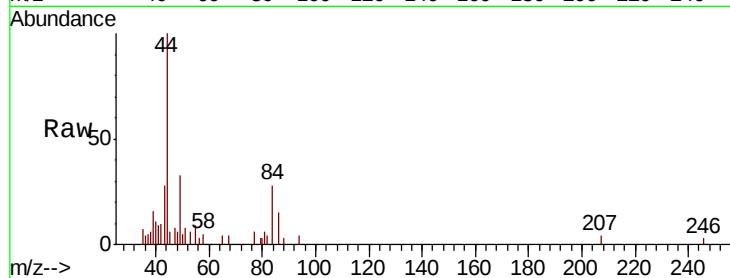




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

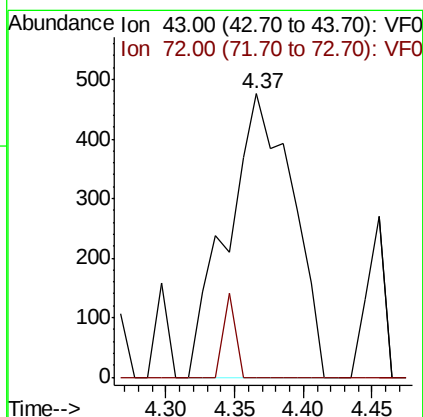
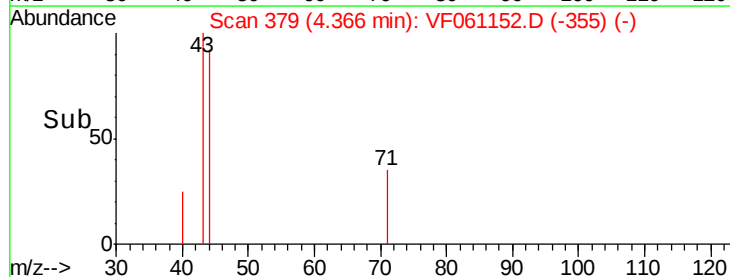
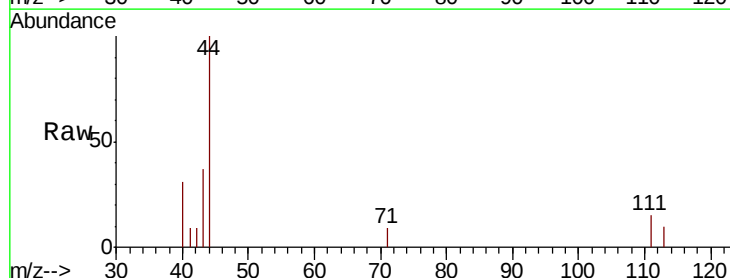
Instrument :
MSVOA_F
ClientSampleId :
TR-05-122018RE

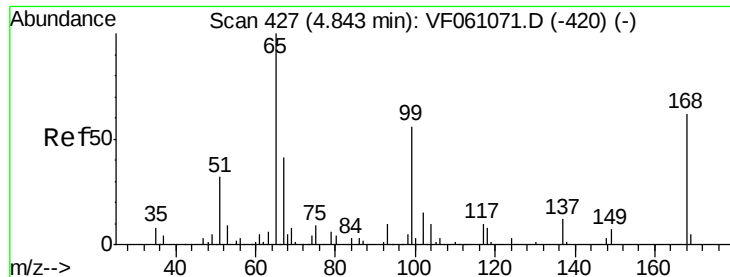
Tot Ion: 84 Resp: 3904
Ion Ratio Lower Upper
84 100
49 119.1 129.4 194.2#
51 27.8 44.0 66.0#
86 53.8 46.3 69.5



#25
2-Butanone
Concen: 2.088 ug/l
RT: 4.37 min Scan# 379
Delta R.T. 0.04 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

Tgt Ion: 43 Resp: 1569
Ion Ratio Lower Upper
43 100
72 0.0 15.6 23.4#





#33

1,2-Dichloroethane-d4

Concen: 57.004 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

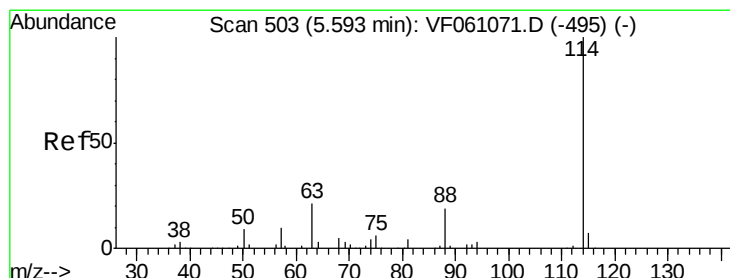
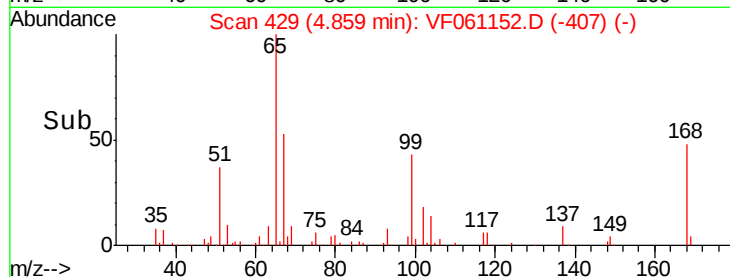
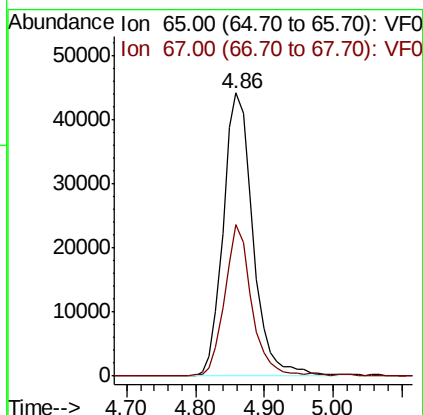
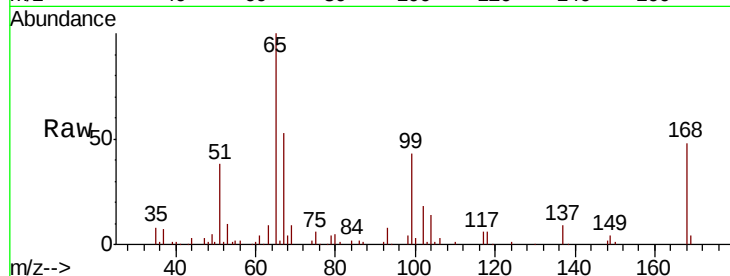
TR-05-122018RE

Tot Ion: 65 Resp: 132141

Ion Ratio Lower Upper

65 100

67 53.3 0.0 94.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

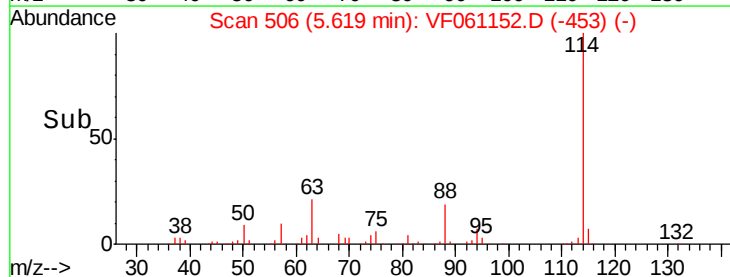
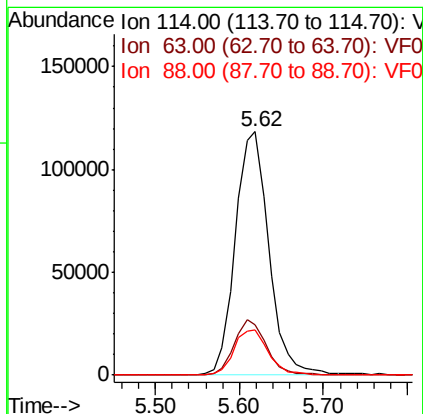
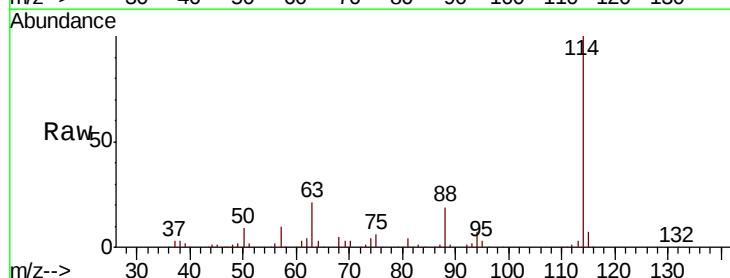
Tgt Ion: 114 Resp: 330099

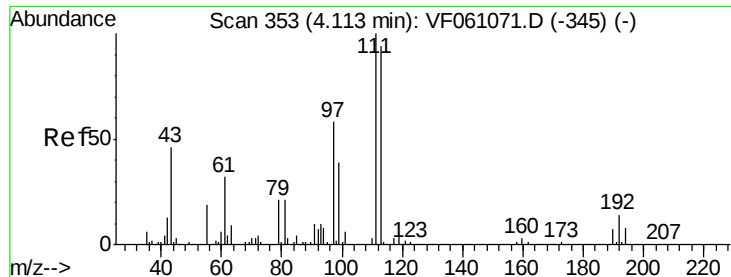
Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

88 18.6 0.0 38.0

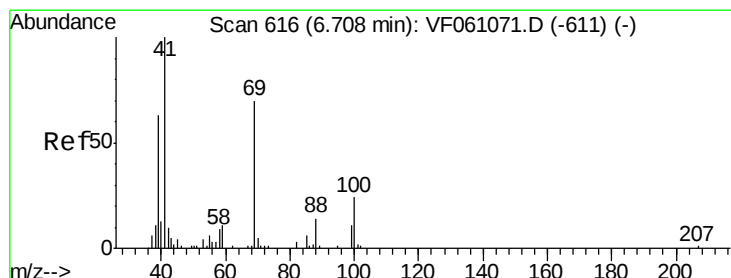
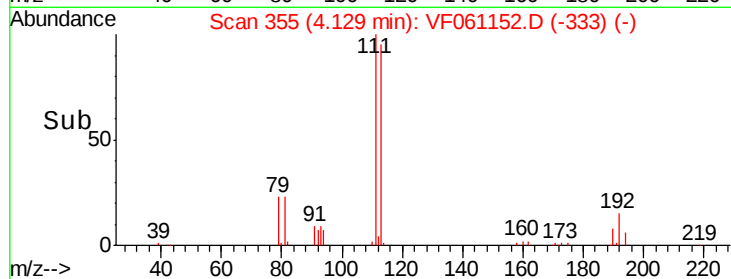
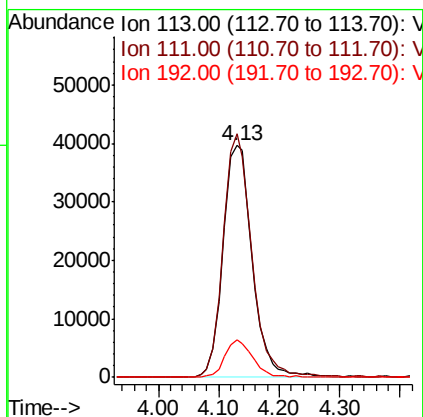
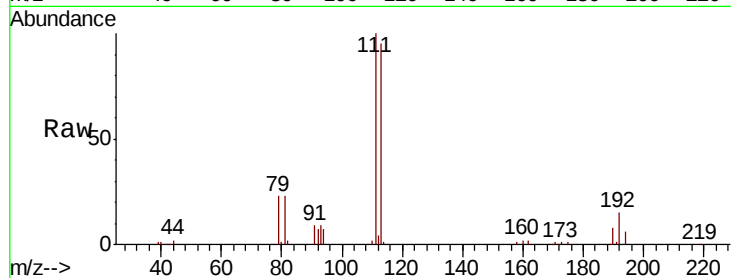




#35
 Dibromofluoromethane
 Concen: 50.476 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.02 min
 Lab File: VF061152.D
 Acq: 22 Dec 2018 18:52

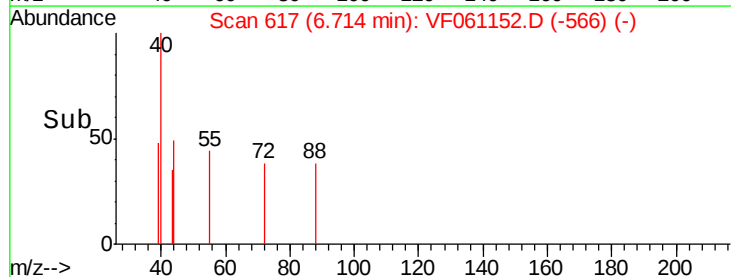
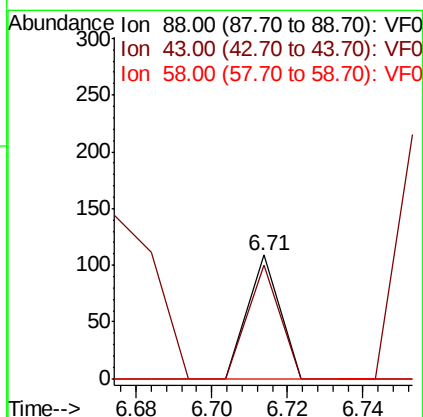
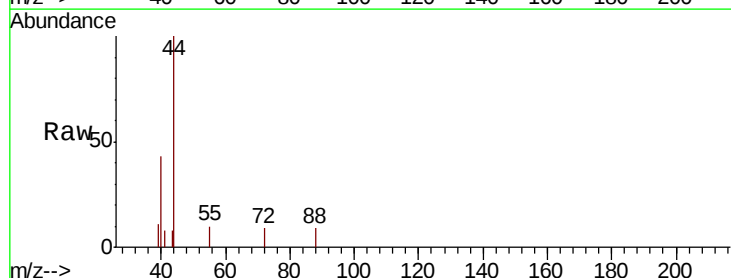
Instrument :
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 TR-05-122018RE

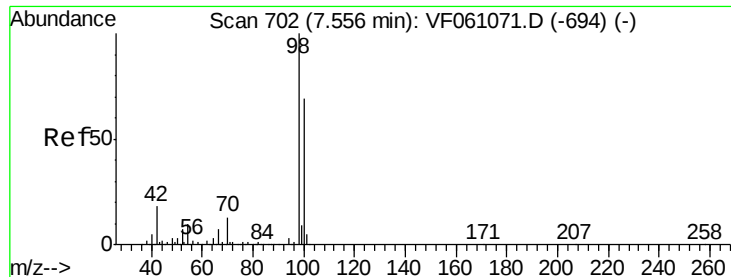
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.0	85.2	127.8
192	16.2	12.8	19.2



#49
 1,4-Dioxane
 Concen: 6.670 ug/l
 RT: 6.71 min Scan# 617
 Delta R.T. 0.01 min
 Lab File: VF061152.D
 Acq: 22 Dec 2018 18:52

Tgt Ion	Ratio	Lower	Upper
88	100		
43	91.7	33.3	49.9#
58	0.0	53.2	79.8#





#50

Toluene-d8

Concen: 25.205 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

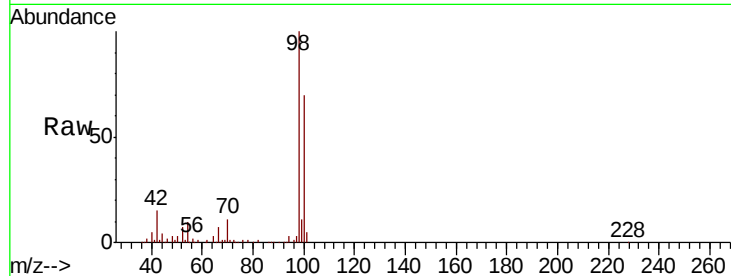
TR-05-122018RE

Tot Ion: 98 Resp: 188878

Ion Ratio Lower Upper

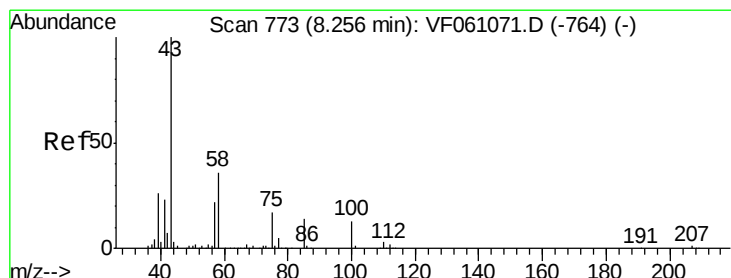
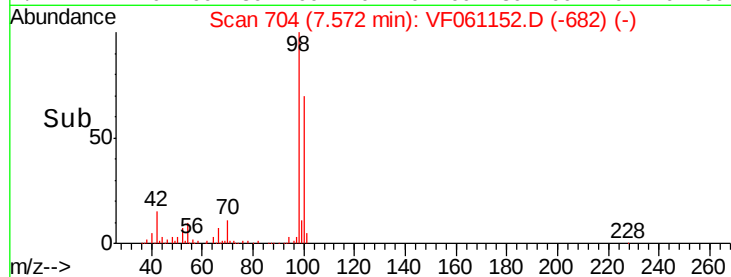
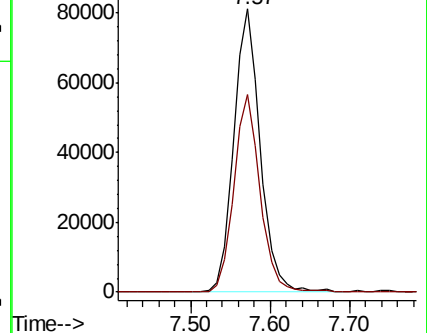
98 100

100 69.9 55.3 82.9



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: 1.321 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061152.D

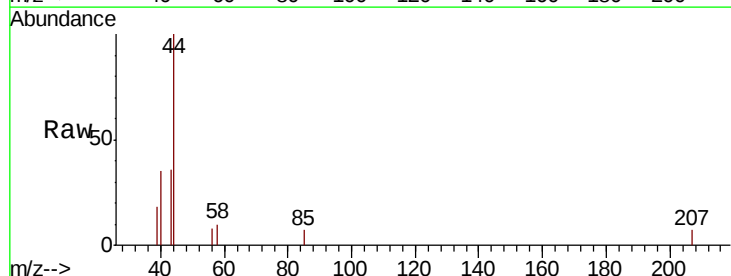
Acq: 22 Dec 2018 18:52

Tgt Ion: 43 Resp: 1743

Ion Ratio Lower Upper

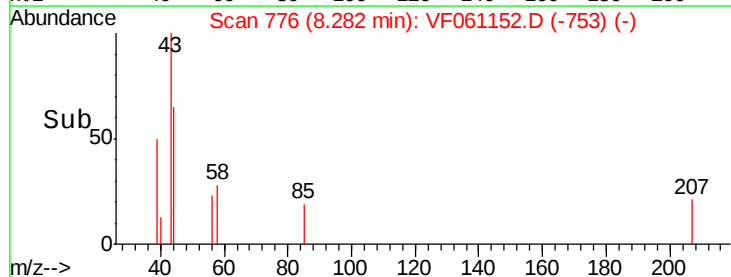
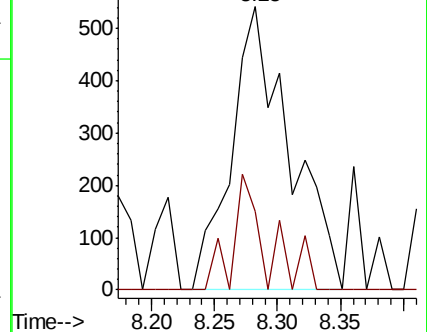
43 100

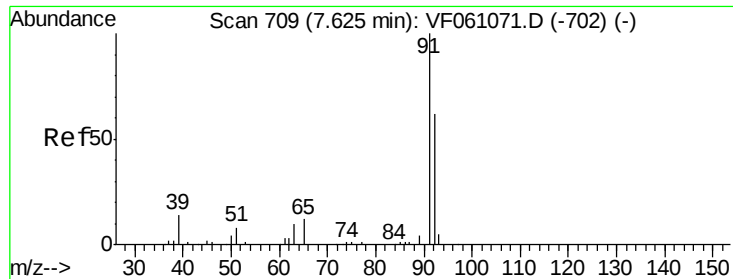
58 27.9 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.768 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

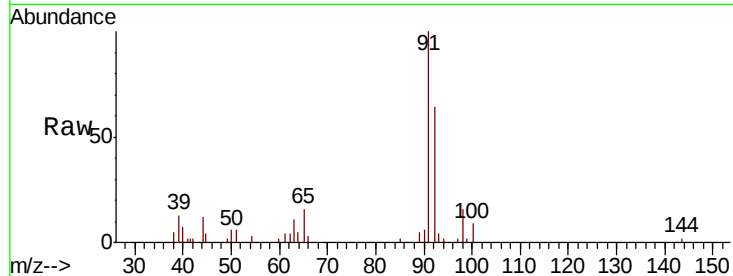
TR-05-122018RE

Tot Ion: 92 Resp: 10028

Ion Ratio Lower Upper

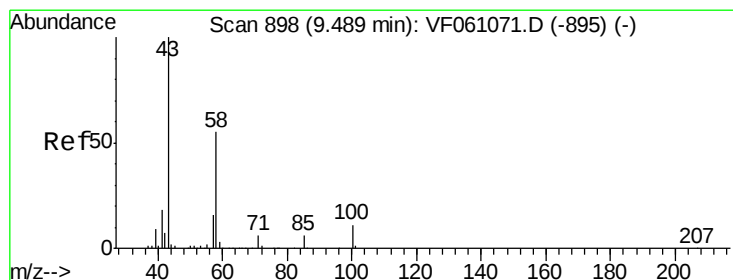
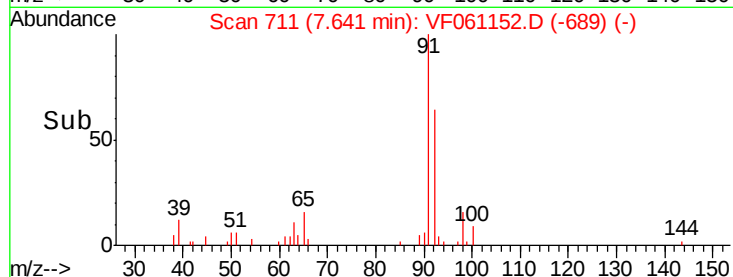
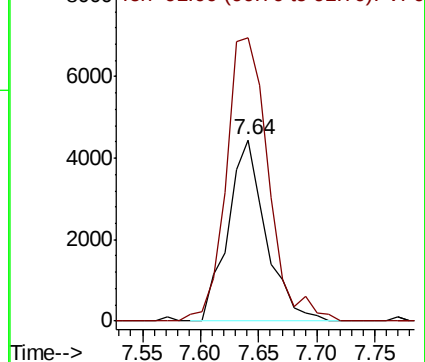
92 100

91 156.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.405 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061152.D

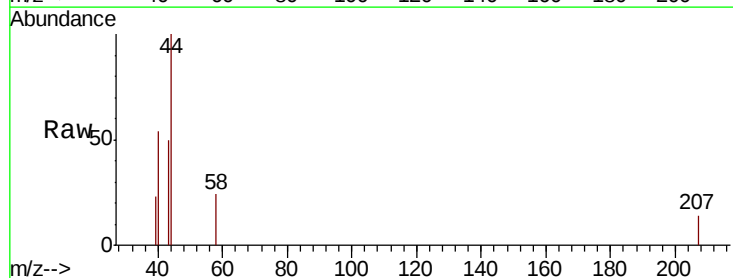
Acq: 22 Dec 2018 18:52

Tgt Ion: 43 Resp: 1341

Ion Ratio Lower Upper

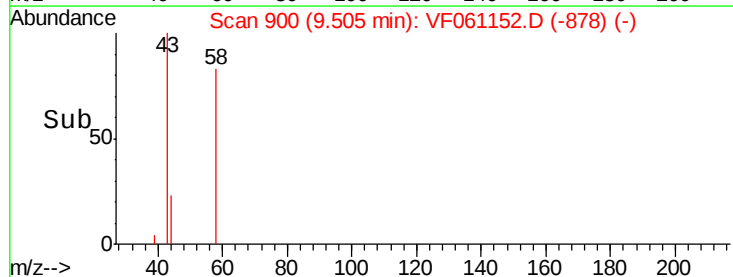
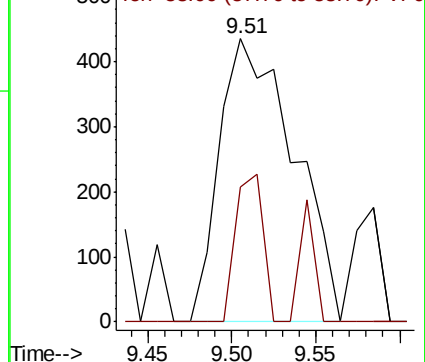
43 100

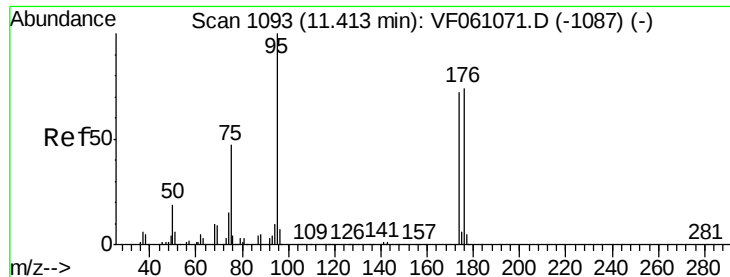
58 47.8 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

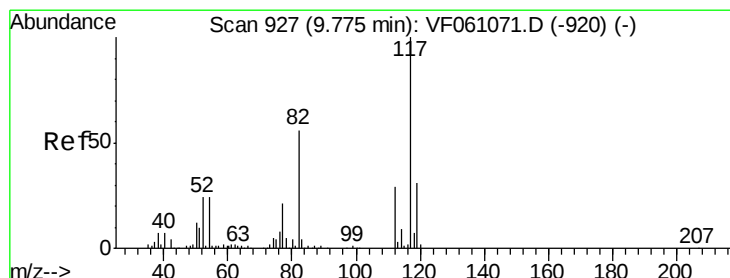
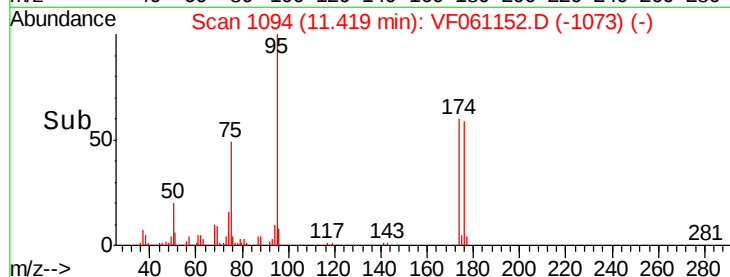
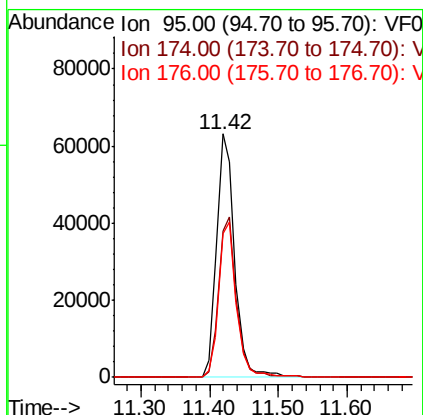
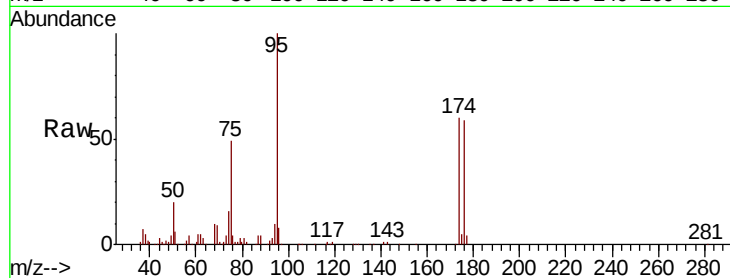




#62
4-Bromofluorobenzene
Concen: 33.264 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

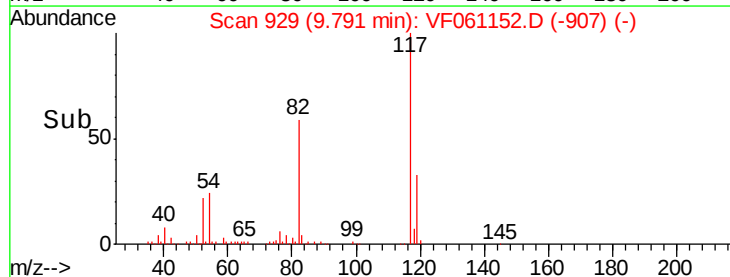
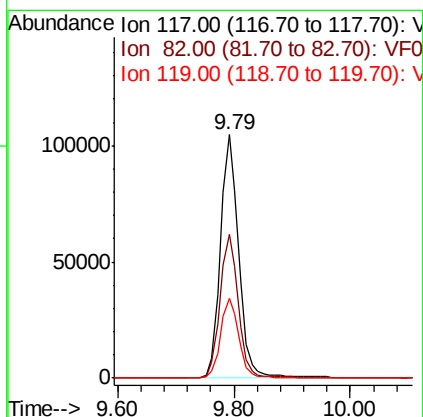
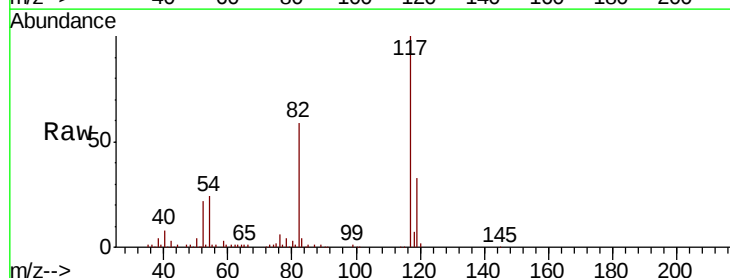
Instrument :
MSVOA_F
ClientSampleId :
TR-05-122018RE

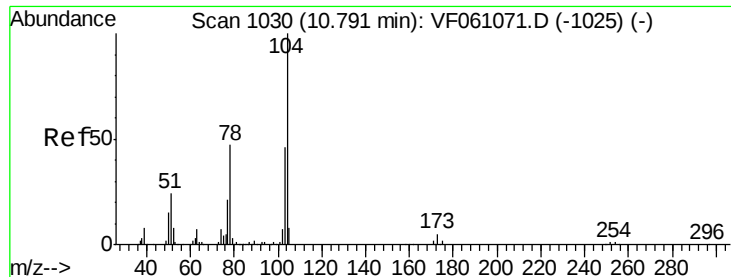
Tot Ion: 95 Resp: 114915
Ion Ratio Lower Upper
95 100
174 60.1 0.0 143.8
176 59.1 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.02 min
Lab File: VF061152.D
Acq: 22 Dec 2018 18:52

Tgt Ion: 117 Resp: 228650
Ion Ratio Lower Upper
117 100
82 59.3 45.0 67.4
119 32.6 24.8 37.2





#70

Stvrene

Concen: Below Cal

RT: 10.81 min Scan# 1032

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

Instrument :

MSVOA_F

ClientSampleId :

TR-05-122018RE

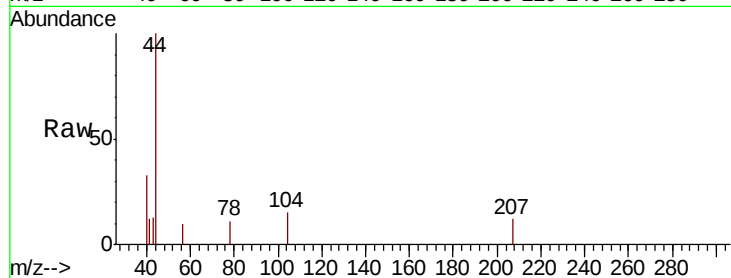
Tot Ion:104 Resp: 236

Ion Ratio Lower Upper

104 100

78 70.6 38.4 57.6#

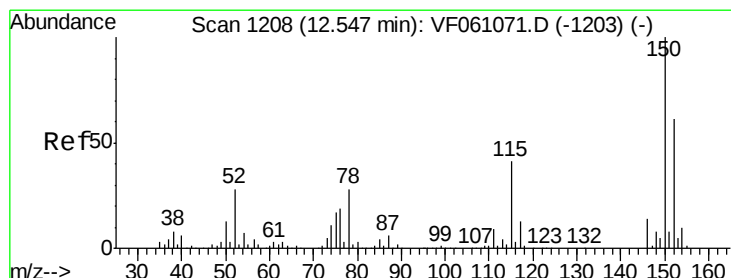
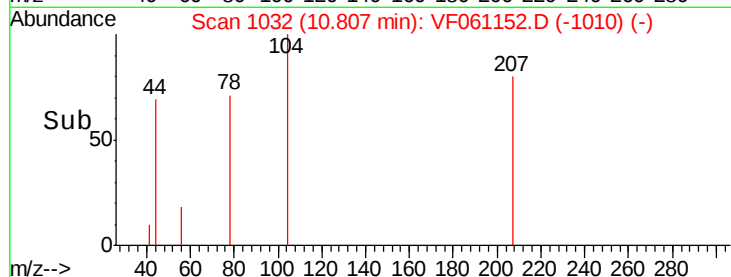
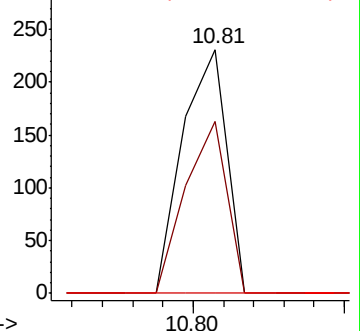
103 0.0 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061152.D

Acq: 22 Dec 2018 18:52

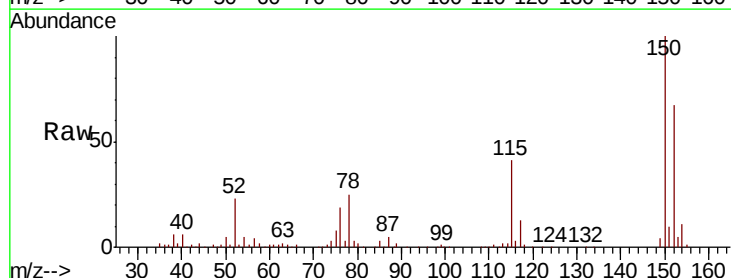
Tgt Ion:152 Resp: 98279

Ion Ratio Lower Upper

152 100

115 61.1 33.3 99.9

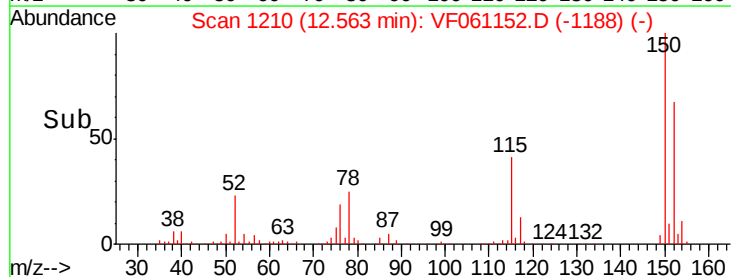
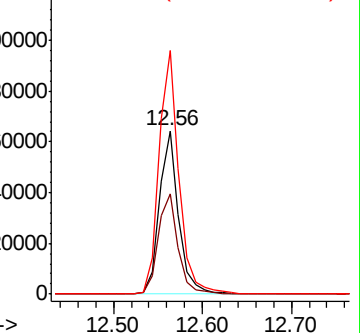
150 149.1 0.0 328.2

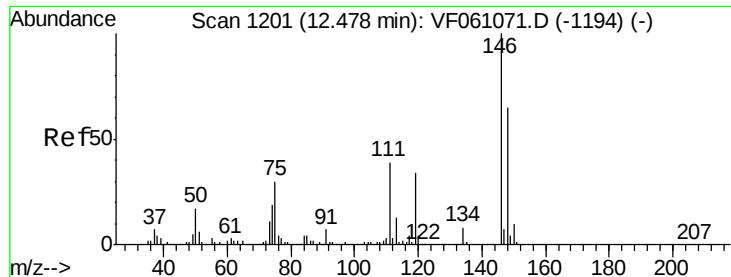


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

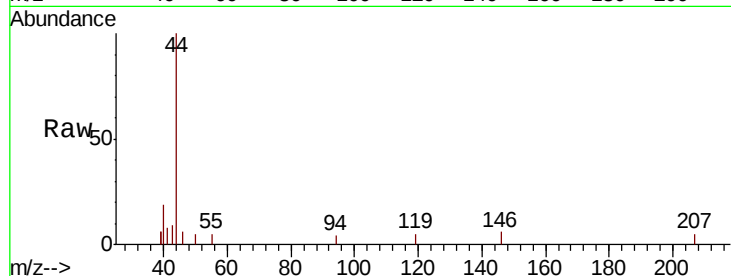




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061152.D
 Acq: 22 Dec 2018 18:52

Instrument :
 MSVOA_F
 ClientSampleId :
 TR-05-122018RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	0.0	32.4	97.2#



Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

