

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061112.D
 Acq On : 20 Dec 2018 17:11
 Operator : VA/AP
 Sample : J6377-13
 Misc : 3.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:43:32 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	4.88	168	179678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	330313	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.78	117	230883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	84341	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	91776	39.71	ug/l	0.00
Spiked Amount			Recovery	=	79.42%	
35) Dibromofluoromethane	4.12	113	103263	39.03	ug/l	0.00
Spiked Amount			Recovery	=	78.06%	
50) Toluene-d8	7.57	98	234783	31.31	ug/l	0.00
Spiked Amount			Recovery	=	62.62%	
62) 4-Bromofluorobenzene	11.42	95	83677	24.21	ug/l	0.00
Spiked Amount			Recovery	=	48.42%	

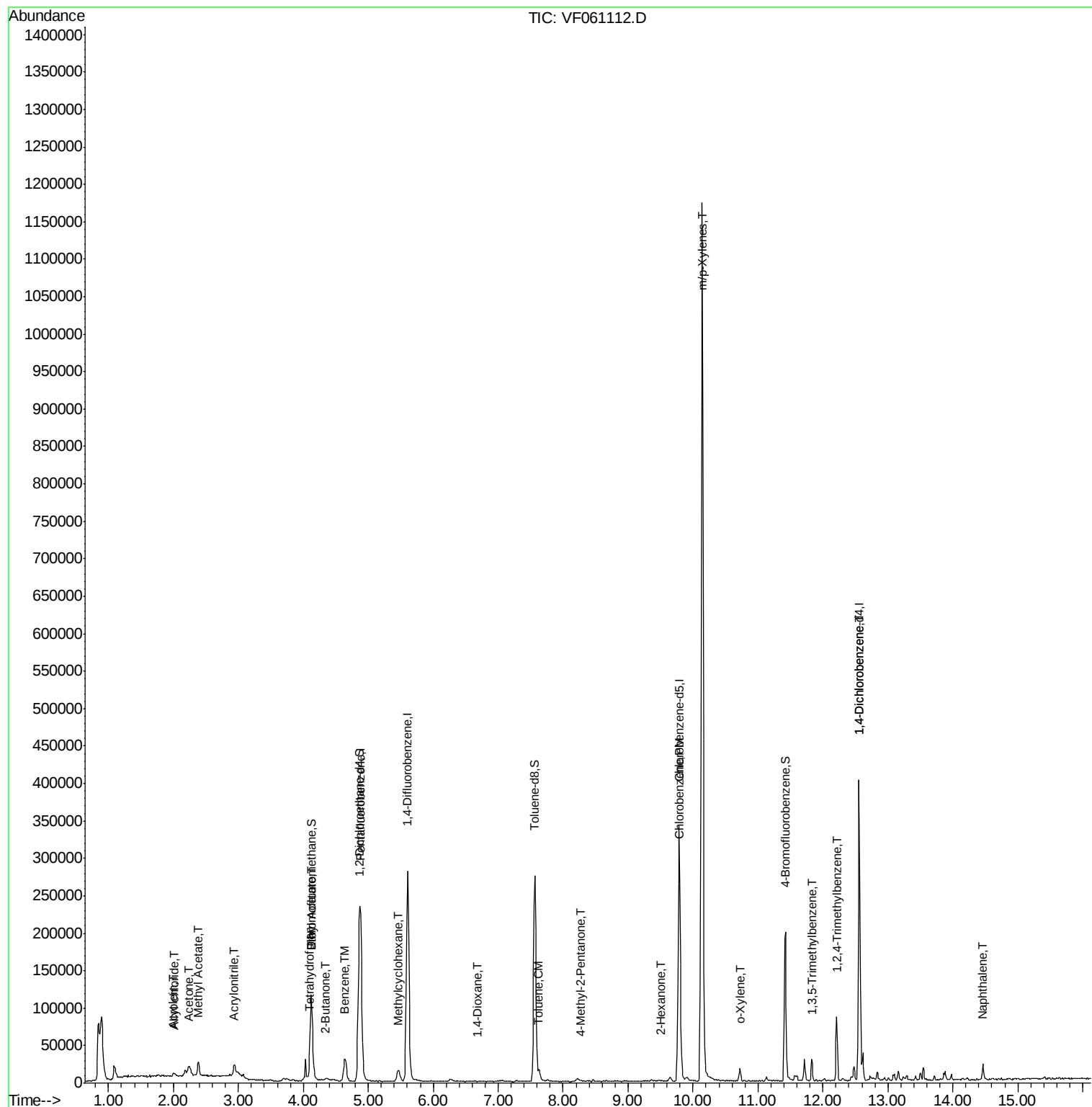
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.99	56	349	5.179	ug/l	90
14) Allyl chloride	2.02	41	2405	1.459	ug/l #	45
15) Acrylonitrile	2.93	53	1428	6.622	ug/l #	67
16) Acetone	2.25	43	13005	28.150	ug/l	95
18) Methyl Acetate	2.39	43	10251	10.725	ug/l #	66
20) Methylene Chloride	2.24	84	3643	Below Cal	#	70
25) 2-Butanone	4.35	43	7509	10.022	ug/l #	89
29) Tetrahydrofuran	4.08	42	546	1.790	ug/l #	37
37) Ethyl Acetate	4.12	43	2916	1.462	ug/l #	21
39) Methylcyclohexane	5.47	83	8721	2.438	ug/l	88
40) Benzene	4.65	78	40827	4.762	ug/l	92
49) 1,4-Dioxane	6.70	88	79	8.101	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	1634	1.238	ug/l #	87
52) Toluene	7.63	92	6864	1.209	ug/l	97
59) 2-Hexanone	9.50	43	1886	1.975	ug/l	70
65) Chlorobenzene	9.80	112	23702	4.969	ug/l	93
68) m/p-Xylenes	10.14	106	420788	137.600	ug/l	97
69) o-Xylene	10.72	106	6083	1.794	ug/l	91
70) Styrene	10.79	104	85	Below Cal	#	30
80) 1,3,5-Trimethylbenzene	11.83	105	14302	2.390	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	42558	7.131	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	5065	Below Cal		93
88) 1,4-Dichlorobenzene	12.57	146	39044	13.590	ug/l	94
95) Naphthalene	14.46	128	12711	3.509	ug/l #	84

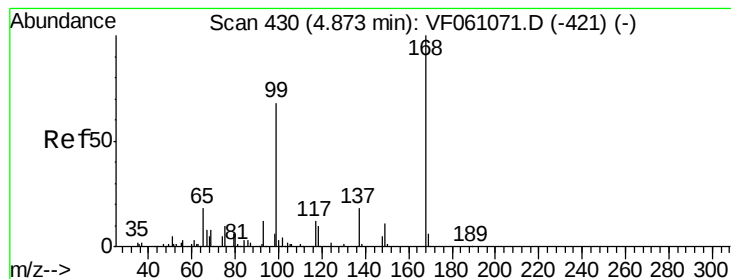
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

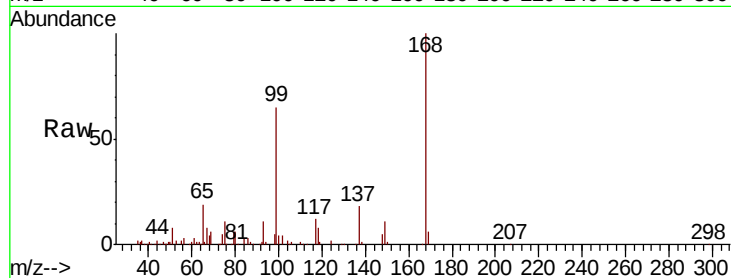
ClientSampleId :

Tot Ion:168 Resp: 179678

Ion Ratio Lower Upper

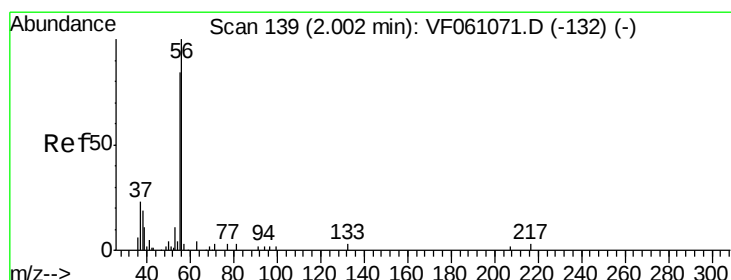
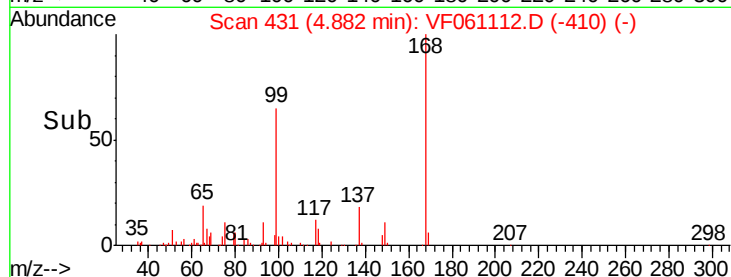
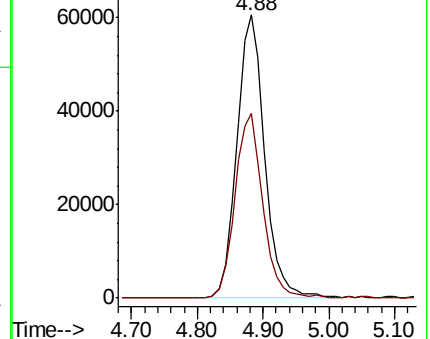
168 100

99 65.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 5.179 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061112.D

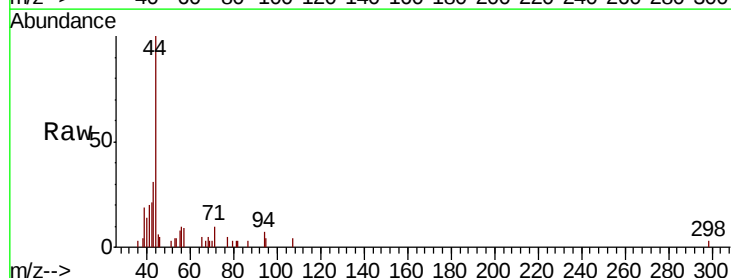
Acq: 20 Dec 2018 17:11

Tgt Ion: 56 Resp: 349

Ion Ratio Lower Upper

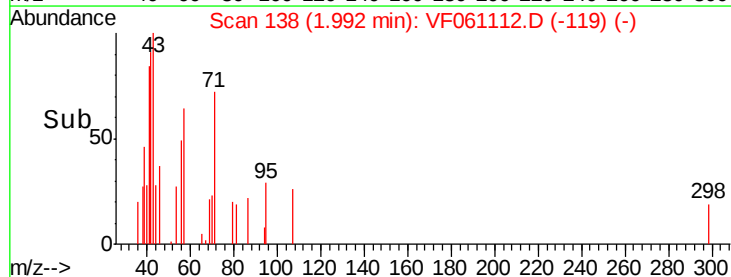
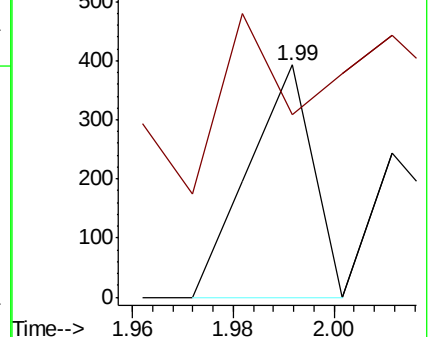
56 100

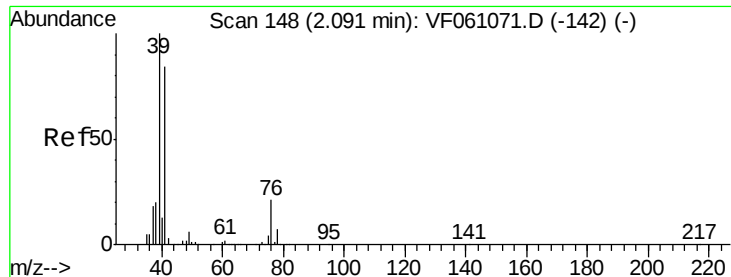
55 78.6 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 1.459 ug/l

RT: 2.02 min Scan# 141

Delta R.T. -0.07 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

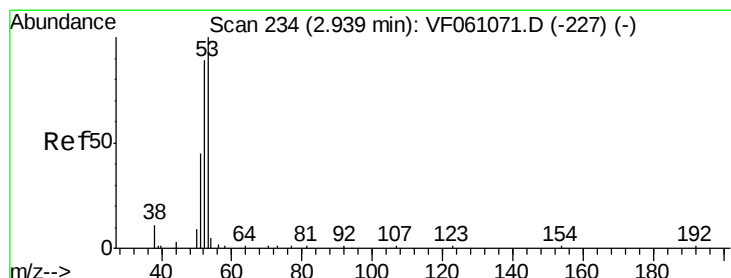
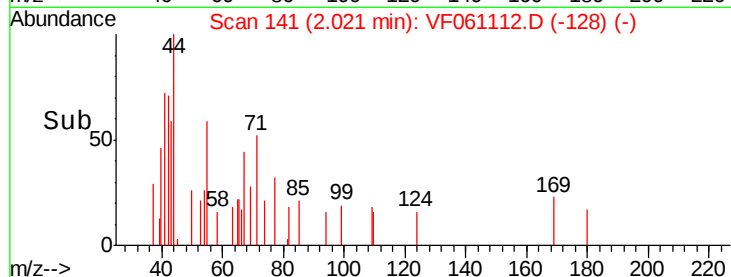
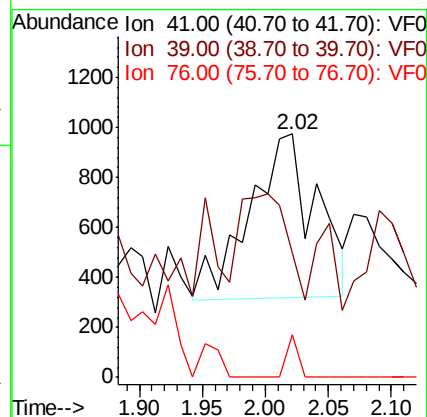
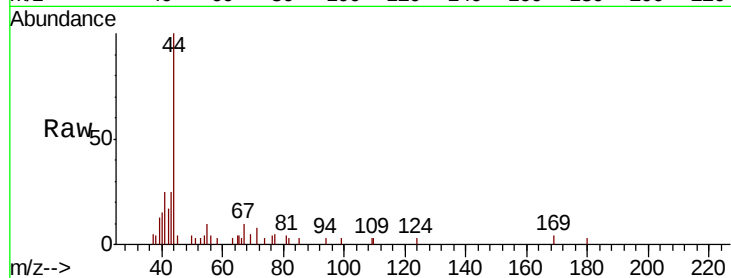
Tot Ion: 41 Resp: 2405

Ion Ratio Lower Upper

41 100

39 51.1 96.4 144.6#

76 17.4 25.4 38.0#



#15

Acrylonitrile

Concen: 6.622 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

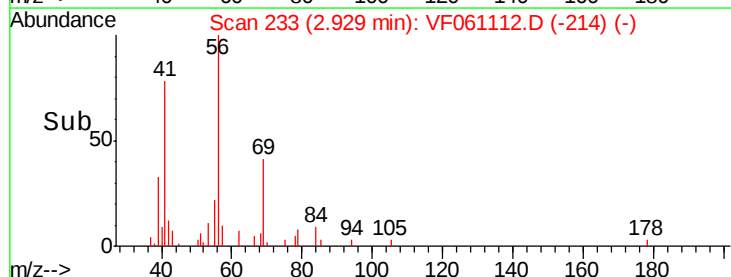
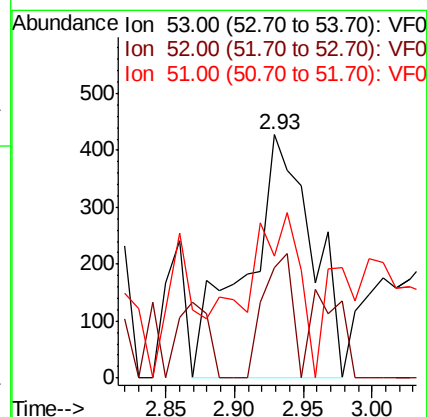
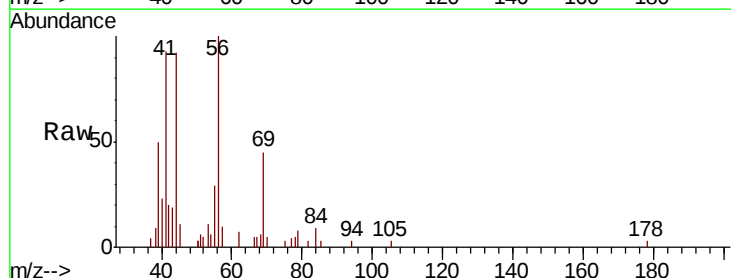
Tgt Ion: 53 Resp: 1428

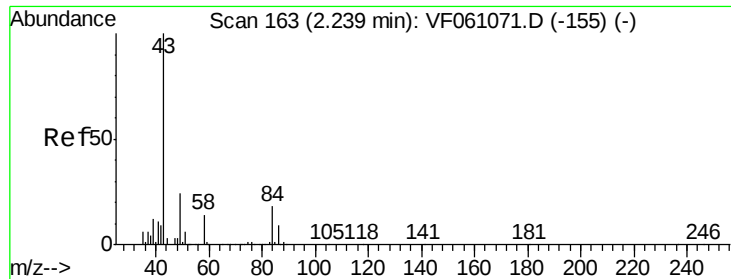
Ion Ratio Lower Upper

53 100

52 45.3 71.3 106.9#

51 50.2 36.8 55.2

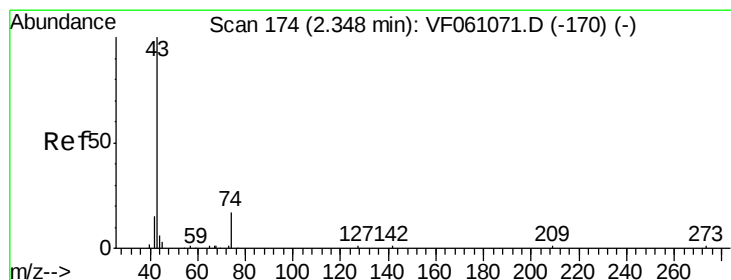
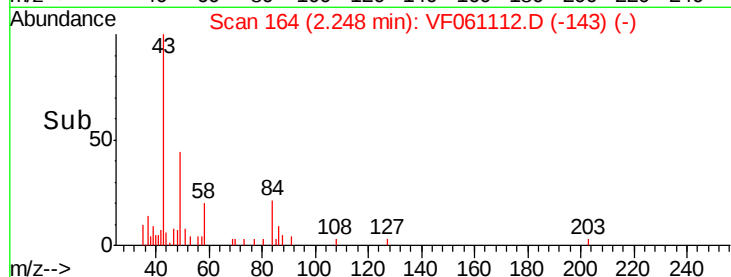
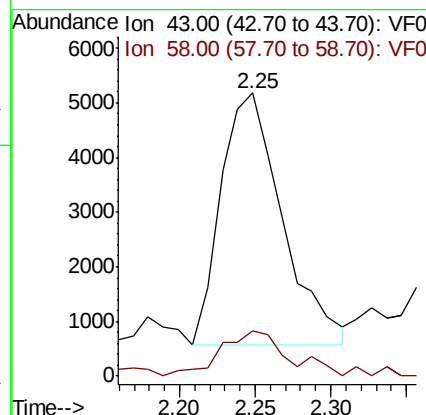
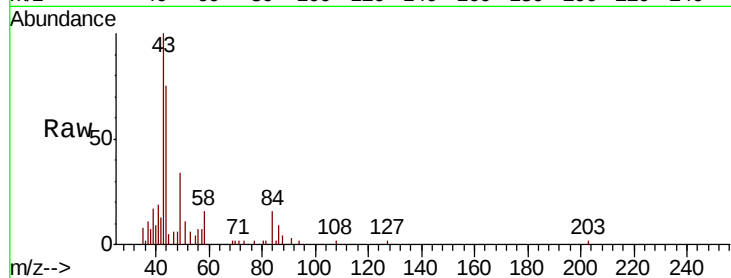




#16
Acetone
Concen: 28.150 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

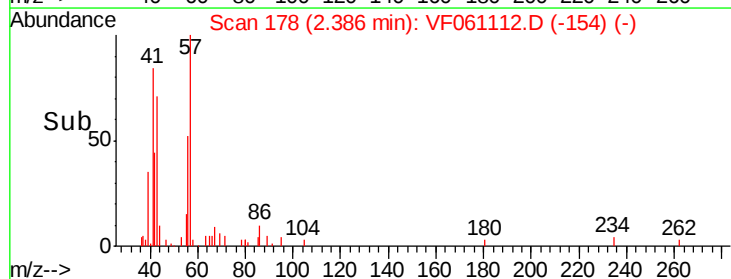
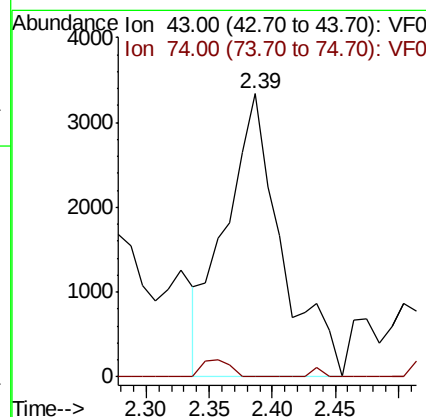
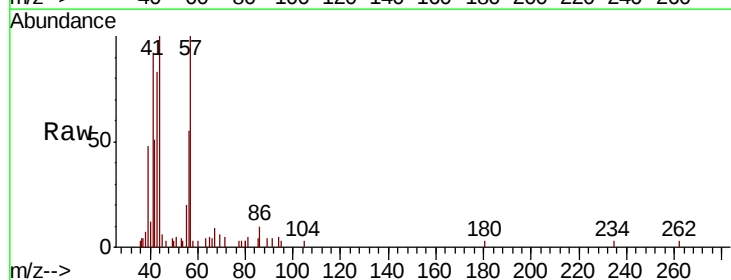
Instrument :
MSVOA_F
ClientSampleId :

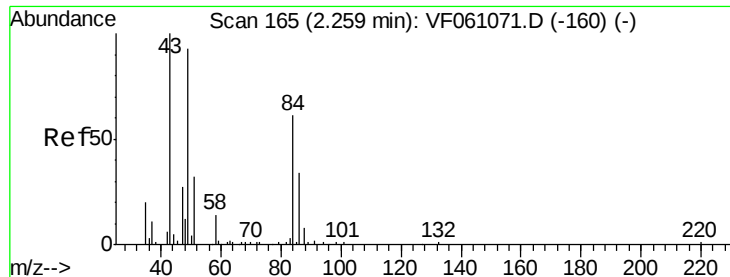
Tot Ion: 43 Resp: 13005
Ion Ratio Lower Upper
43 100
58 15.9 11.1 16.7



#18
Methyl Acetate
Concen: 10.725 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Tgt Ion: 43 Resp: 10251
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

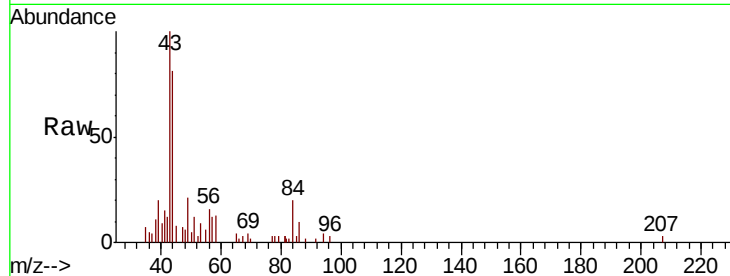




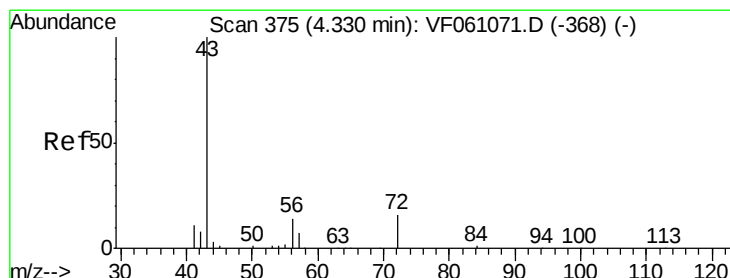
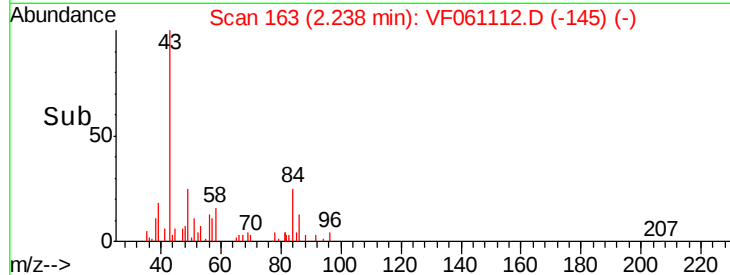
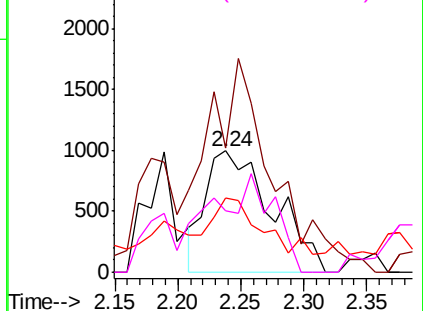
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 3643
Ion Ratio Lower Upper
84 100
49 102.8 129.4 194.2#
51 60.9 44.0 66.0
86 51.1 46.3 69.5

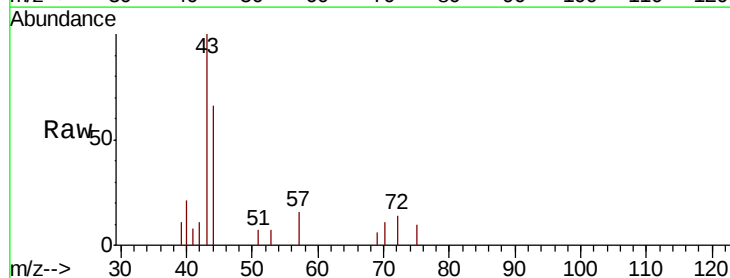


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

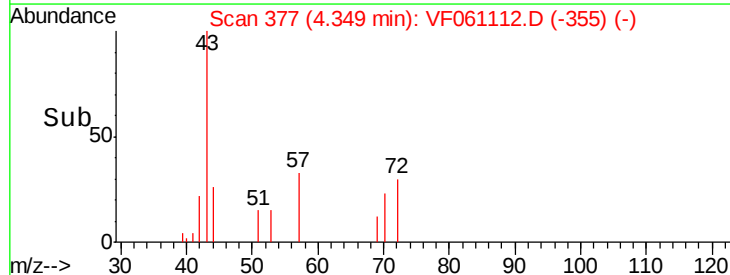
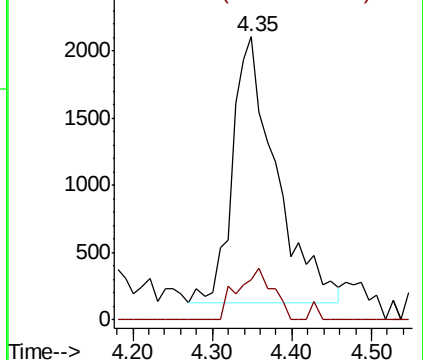


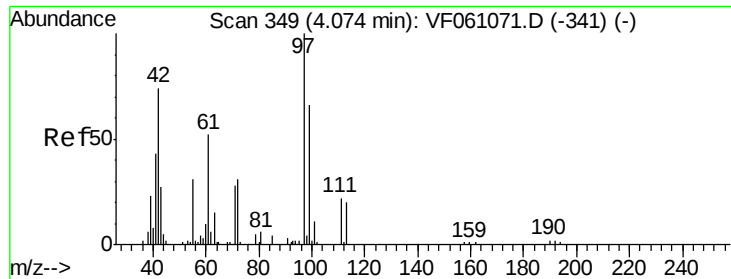
#25
2-Butanone
Concen: 10.022 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Tgt Ion: 43 Resp: 7509
Ion Ratio Lower Upper
43 100
72 14.4 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.790 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :
MSVOA_F
ClientSampleId :

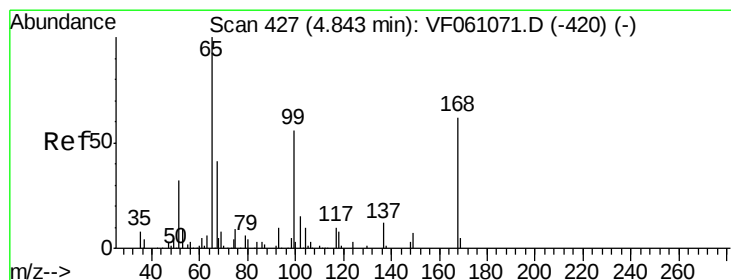
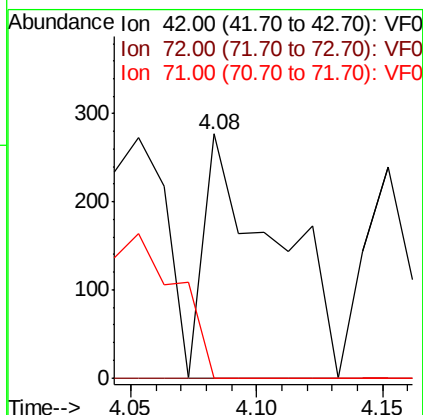
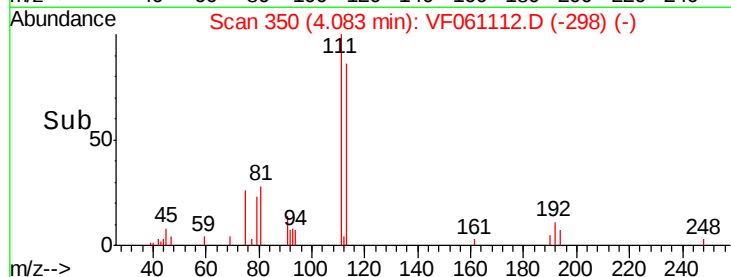
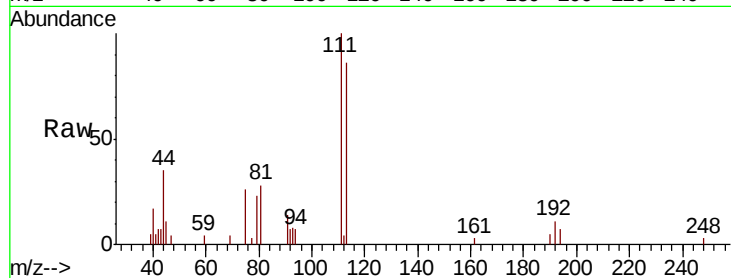
Tot Ion: 42 Resp: 546

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#



#33

1,2-Dichloroethane-d4

Concen: 39.713 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061112.D

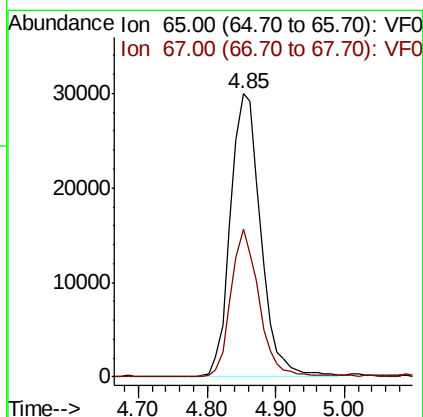
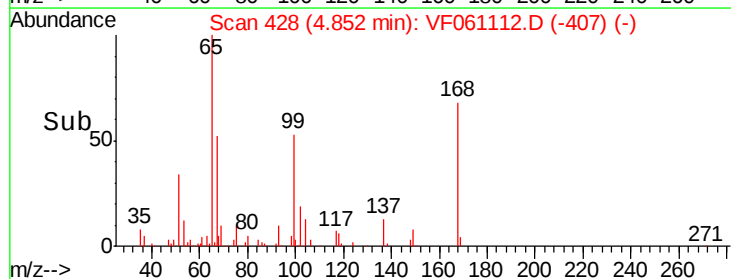
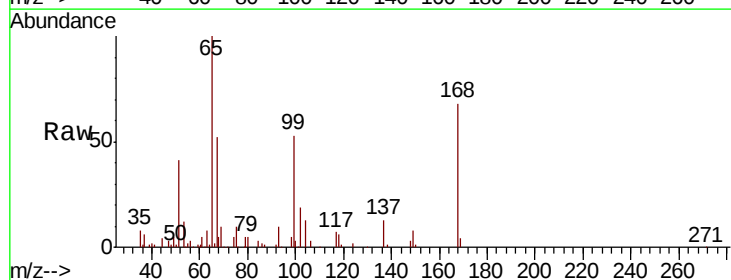
Acq: 20 Dec 2018 17:11

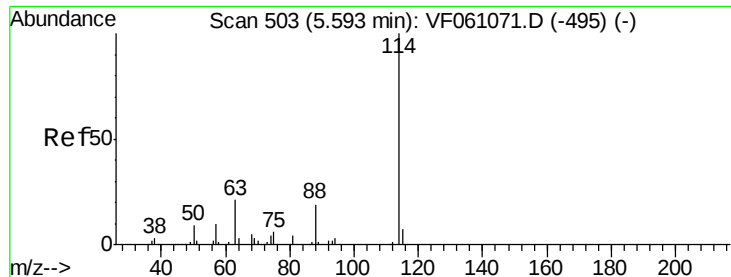
Tgt Ion: 65 Resp: 91776

Ion Ratio Lower Upper

65 100

67 52.1 0.0 94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

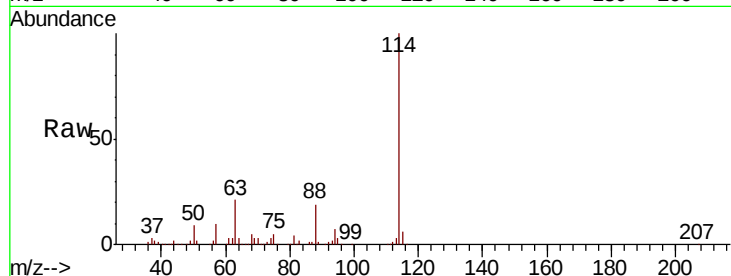
Delta R.T. 0.02 min

Lab File: VF061112.D

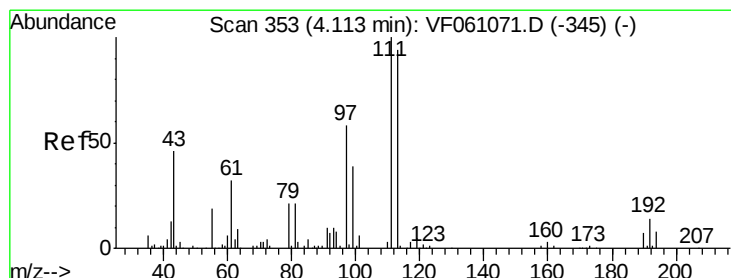
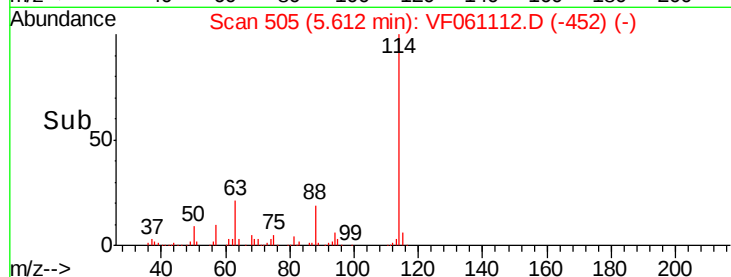
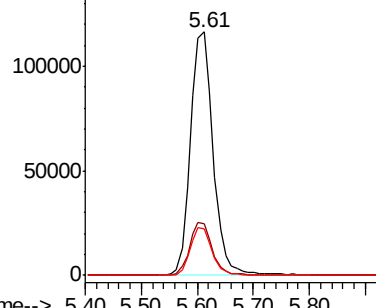
Acq: 20 Dec 2018 17:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114	Resp:	330313
Ion Ratio	Lower	Upper
114 100		
63 21.5	0.0	41.6
88 19.1	0.0	38.0



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: 39.026 ug/l

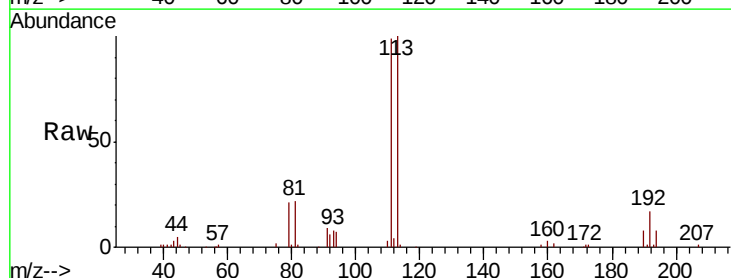
RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

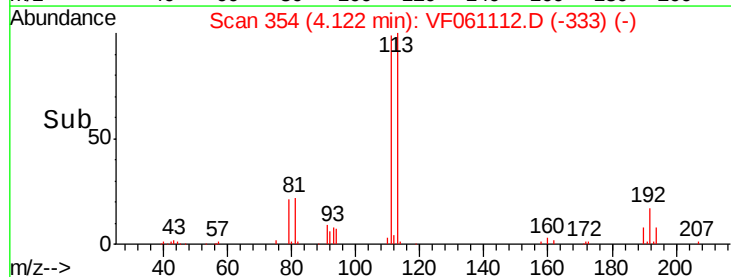
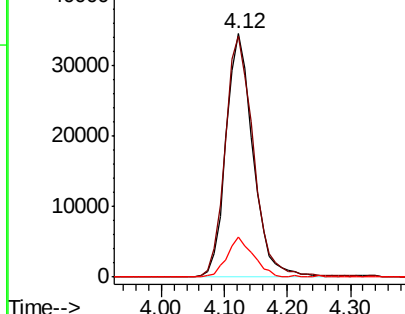
Lab File: VF061112.D

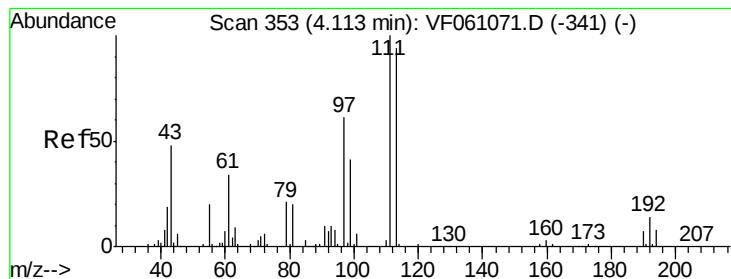
Acq: 20 Dec 2018 17:11

Tgt Ion:113	Resp:	103263
Ion Ratio	Lower	Upper
113 100		
111 99.2	85.2	127.8
192 16.7	12.8	19.2



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: 1.462 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

ClientSampled :

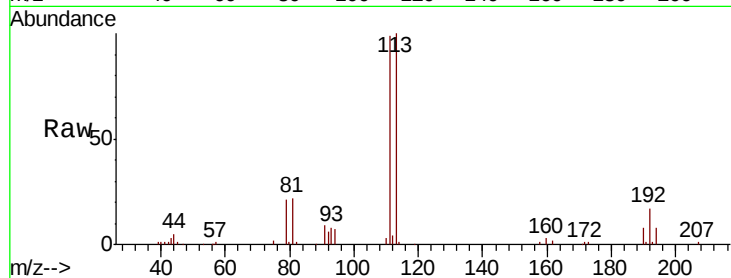
Tot Ion: 43 Resp: 2916

Ion Ratio Lower Upper

43 100

61 0.0 56.6 84.8#

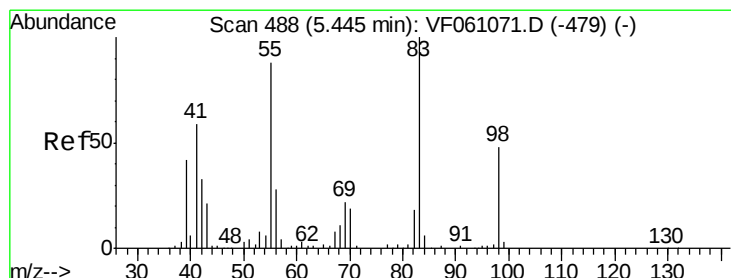
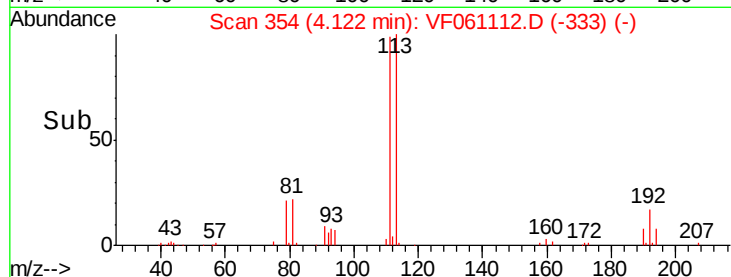
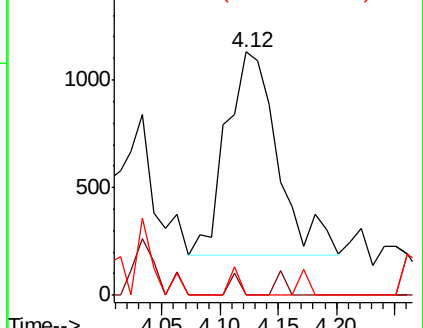
70 0.0 6.3 9.5#



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



#39

Methylcyclohexane

Concen: 2.438 ug/l

RT: 5.47 min Scan# 491

Delta R.T. 0.03 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

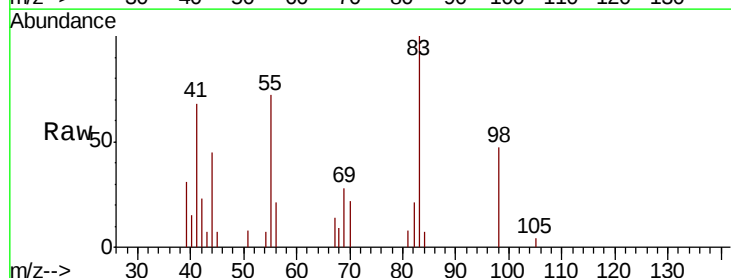
Tgt Ion: 83 Resp: 8721

Ion Ratio Lower Upper

83 100

55 71.7 70.6 105.8

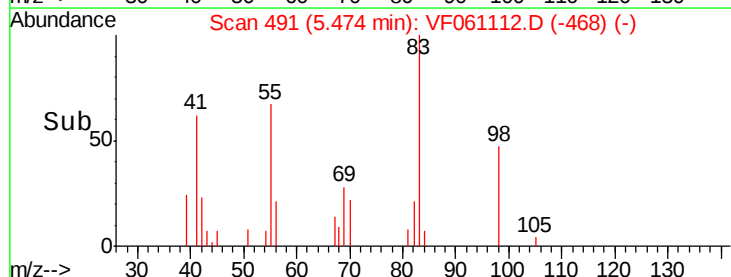
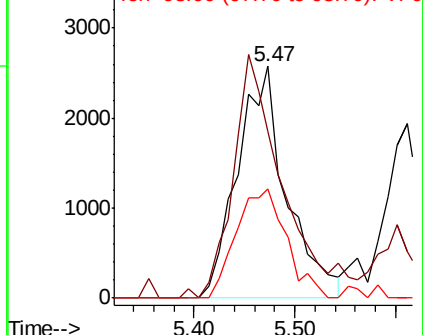
98 47.1 38.5 57.7

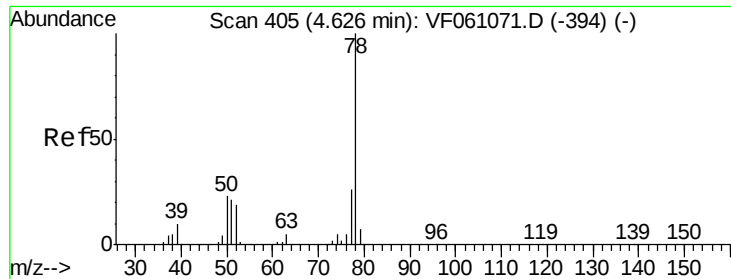


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 4.762 ug/l

RT: 4.65 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

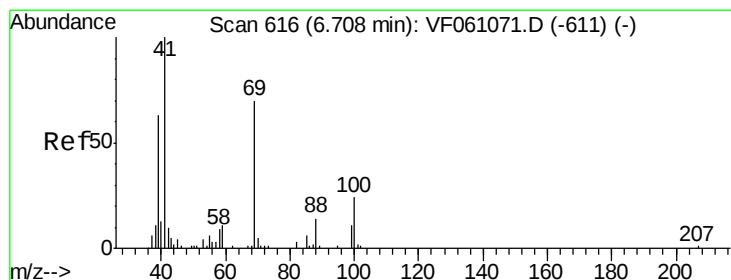
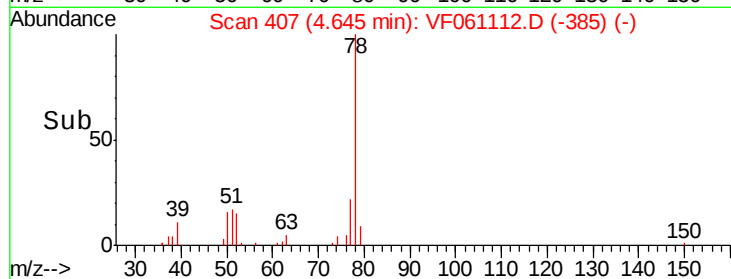
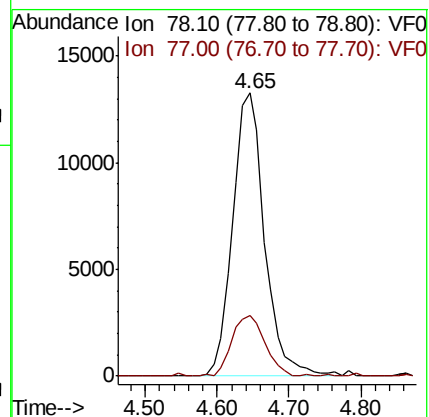
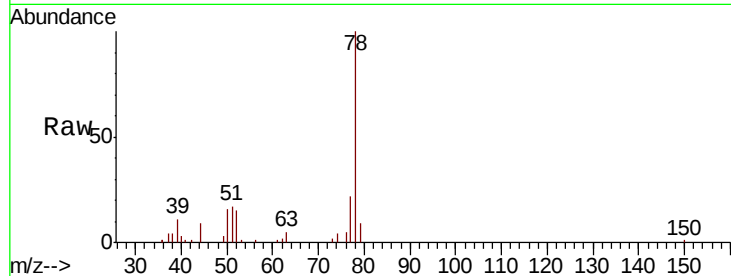
ClientSampled :

Tot Ion: 78 Resp: 40827

Ion Ratio Lower Upper

78 100

77 21.6 20.7 31.1



#49

1,4-Dioxane

Concen: 8.101 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

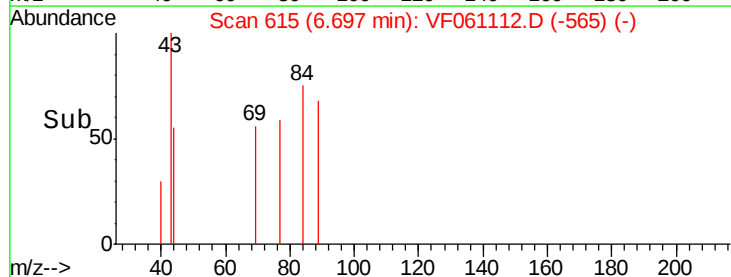
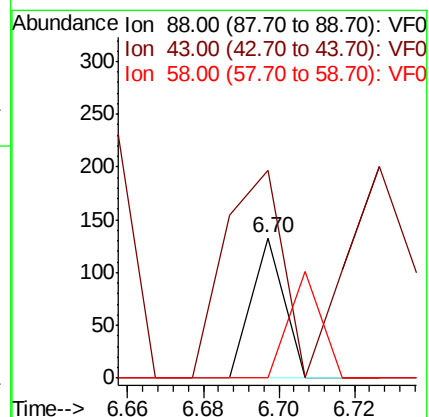
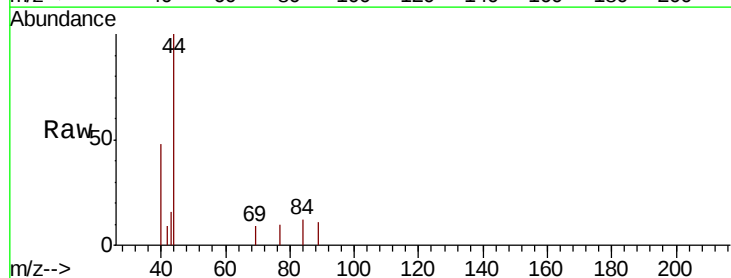
Tgt Ion: 88 Resp: 79

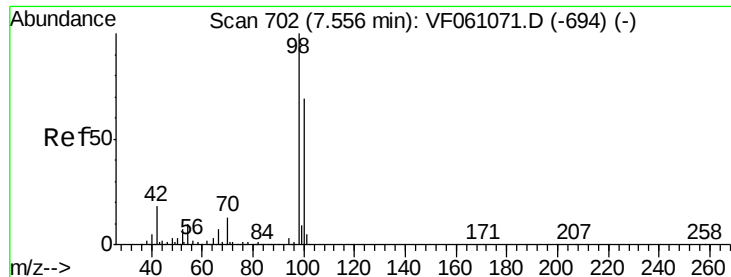
Ion Ratio Lower Upper

88 100

43 148.1 33.3 49.9#

58 0.0 53.2 79.8#





#50

Toluene-d8

Concen: 31.311 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

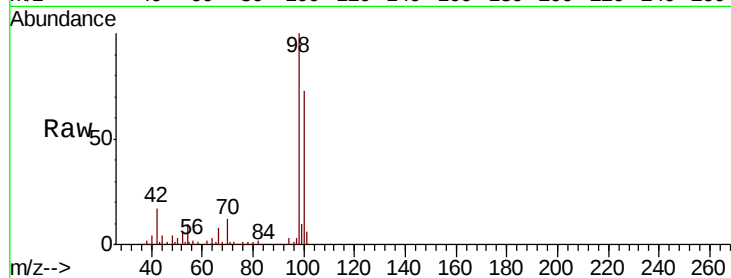
ClientSampleId :

Tot Ion: 98 Resp: 234783

Ion Ratio Lower Upper

98 100

100 72.5 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

100000

80000

60000

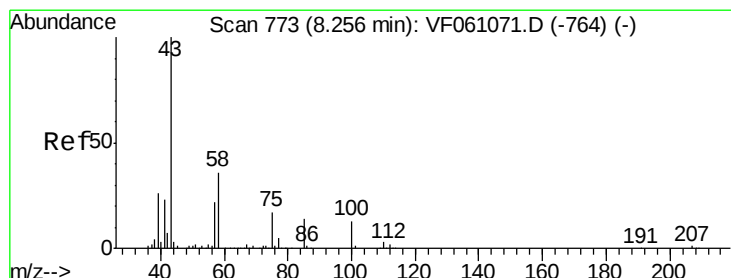
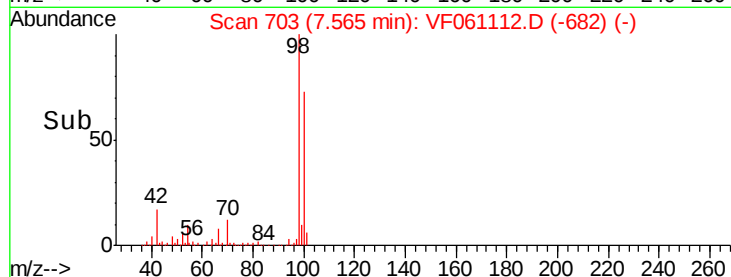
40000

20000

0

Time-->

7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.238 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061112.D

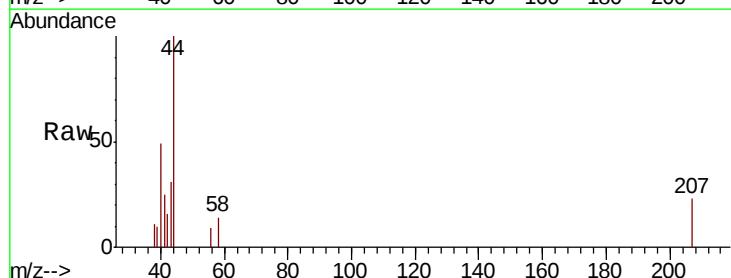
Acq: 20 Dec 2018 17:11

Tgt Ion: 43 Resp: 1634

Ion Ratio Lower Upper

43 100

58 44.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

400

300

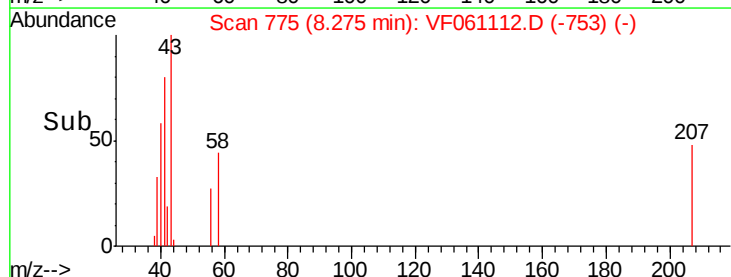
200

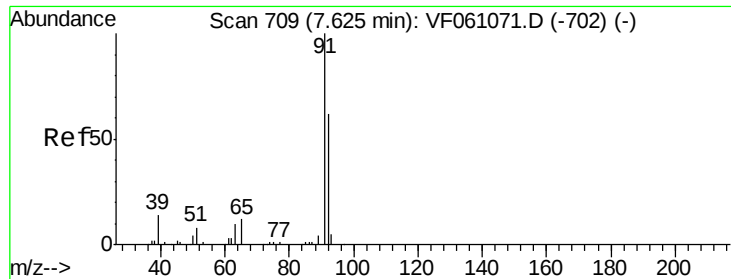
100

0

Time-->

8.20 8.30 8.40





#52

Toluene

Concen: 1.209 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

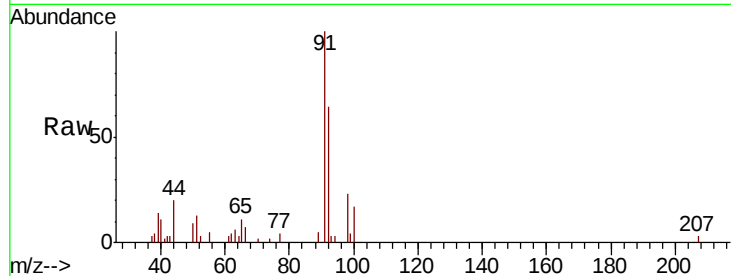
ClientSampleId :

Tot Ion: 92 Resp: 6864

Ion Ratio Lower Upper

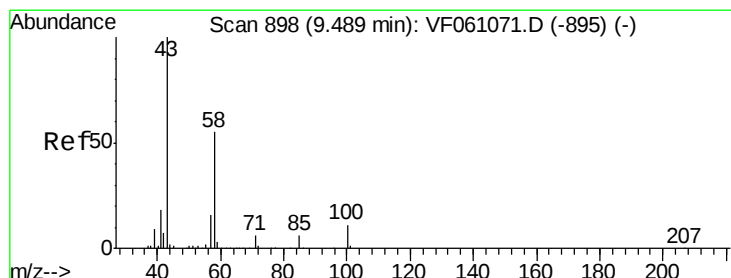
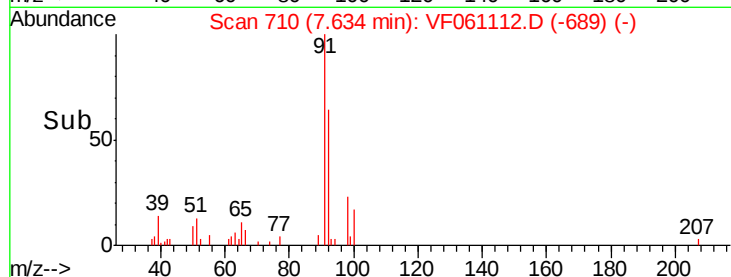
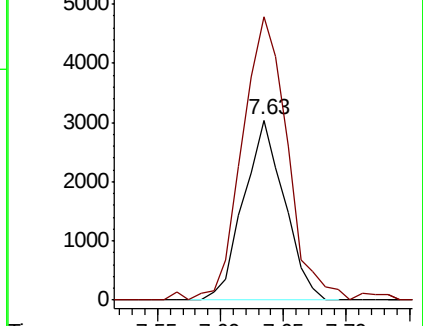
92 100

91 157.3 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.975 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061112.D

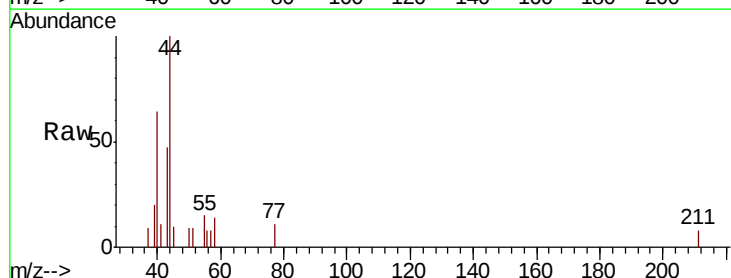
Acq: 20 Dec 2018 17:11

Tgt Ion: 43 Resp: 1886

Ion Ratio Lower Upper

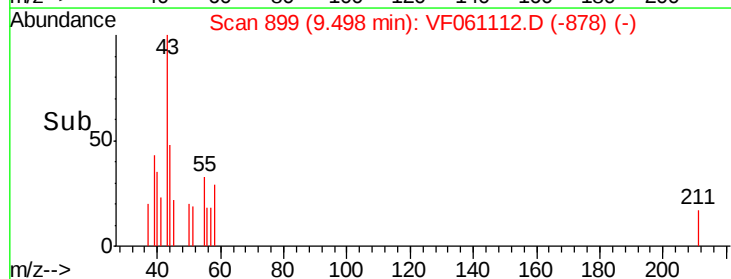
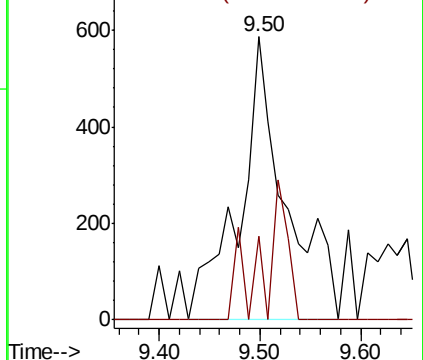
43 100

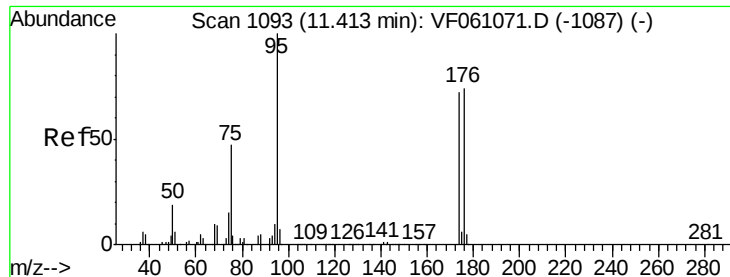
58 29.3 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 24.206 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

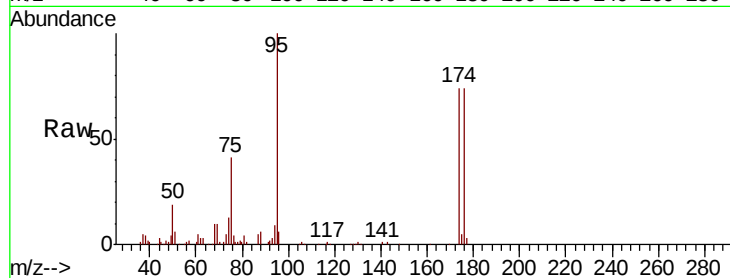
Tot Ion: 95 Resp: 83677

Ion Ratio Lower Upper

95 100

174 73.7 0.0 143.8

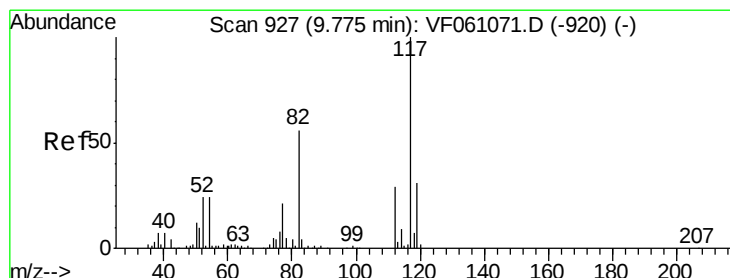
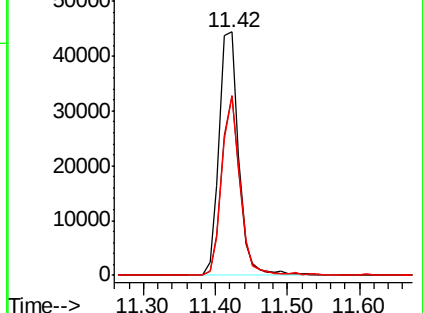
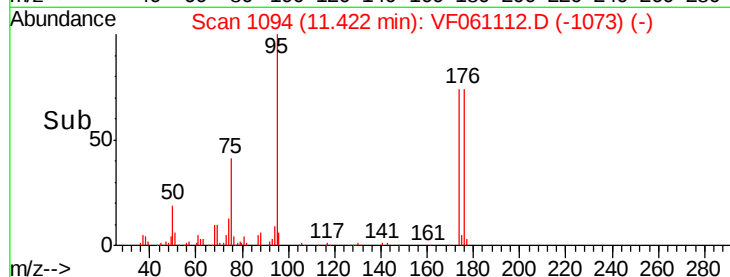
176 73.6 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

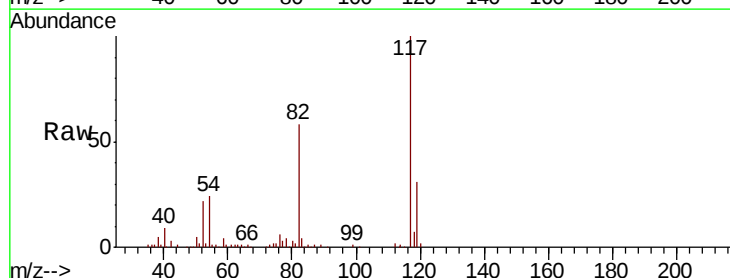
Tgt Ion: 117 Resp: 230883

Ion Ratio Lower Upper

117 100

82 57.9 45.0 67.4

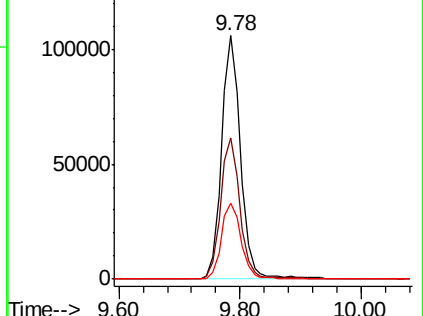
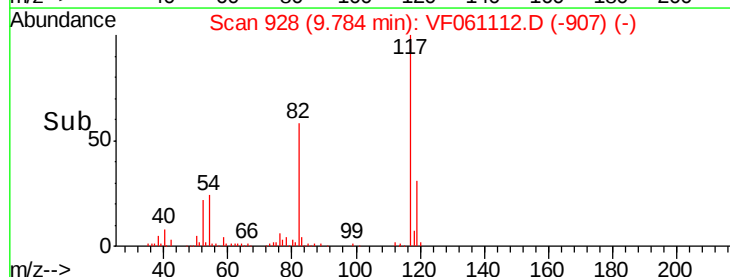
119 31.2 24.8 37.2

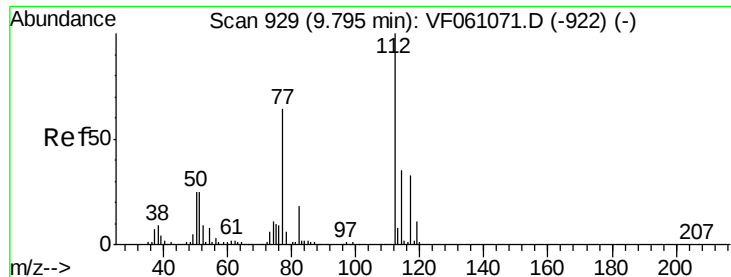


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

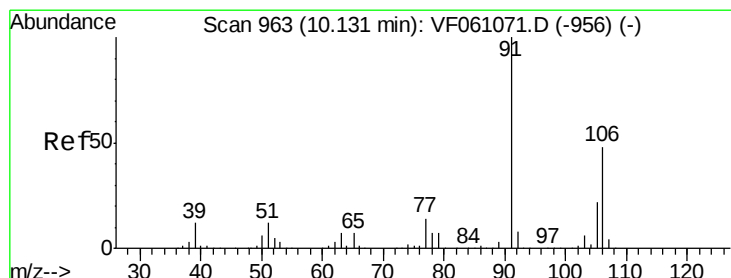
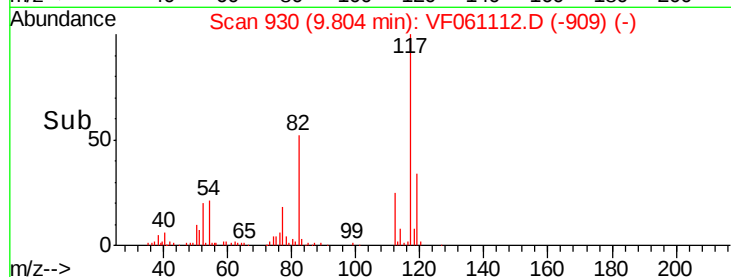
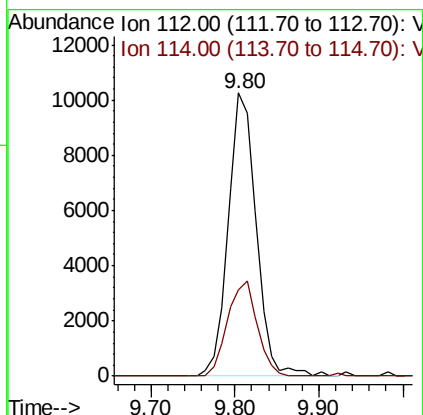
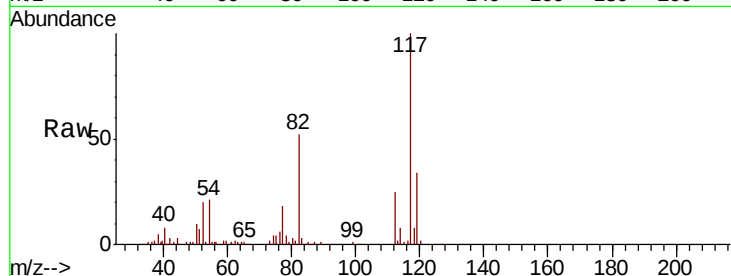




#65
Chlorobenzene
Concen: 4.969 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

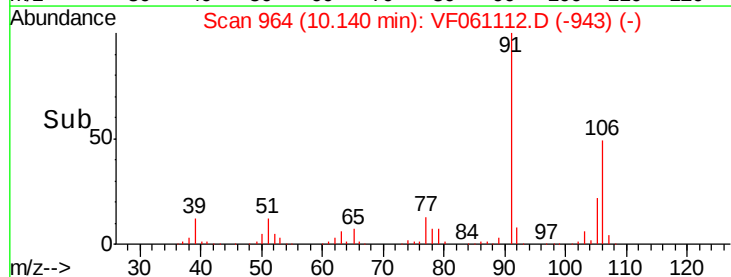
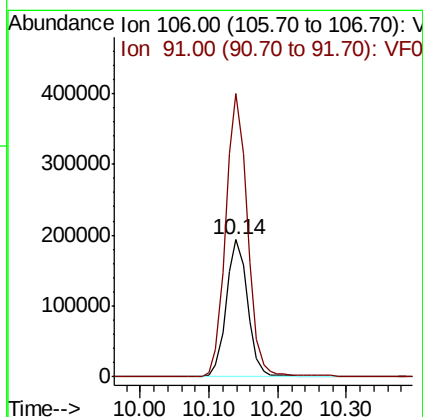
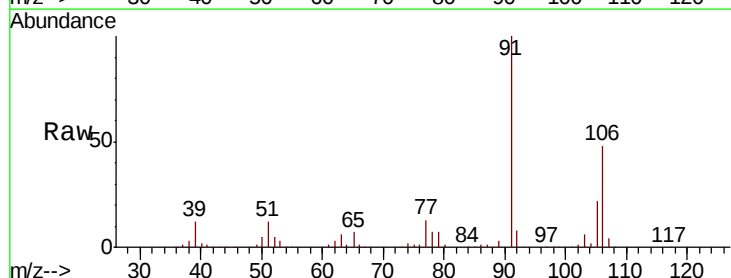
Instrument :
MSVOA_F
ClientSampleId :

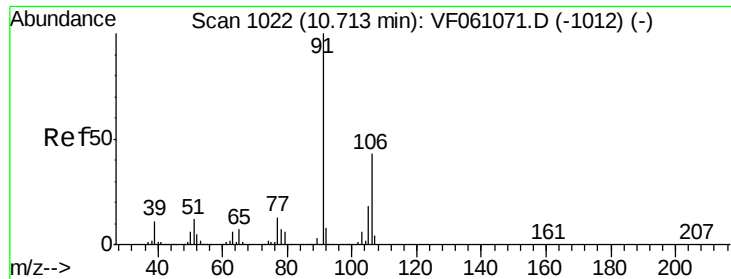
Tot Ion:112 Resp: 23702
Ion Ratio Lower Upper
112 100
114 30.4 27.8 41.6



#68
m/p-Xylenes
Concen: 137.600 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Tgt Ion:106 Resp: 420788
Ion Ratio Lower Upper
106 100
91 206.3 168.2 252.2

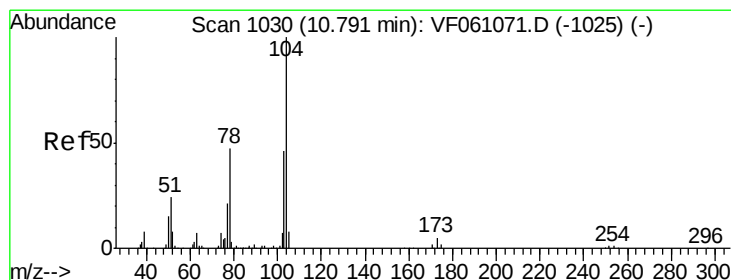
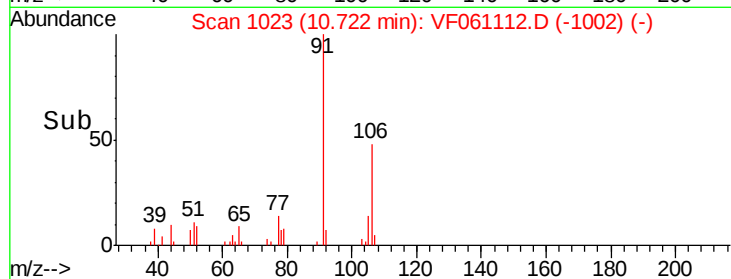
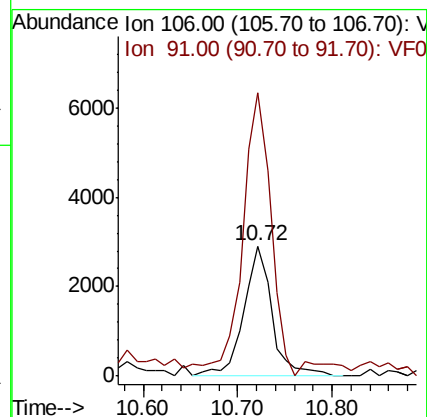
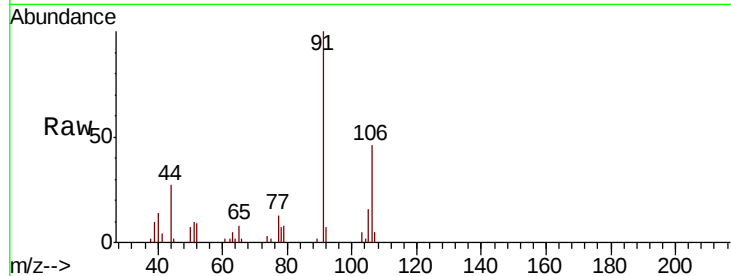




#69
o-Xylene
Concen: 1.794 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

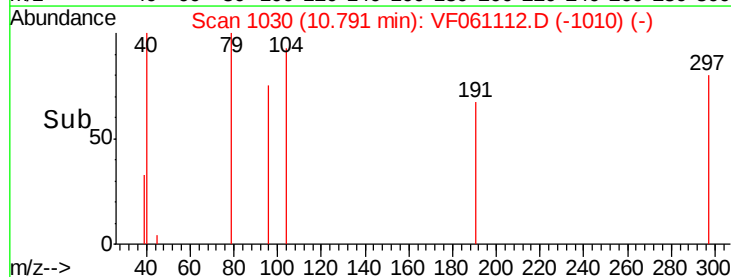
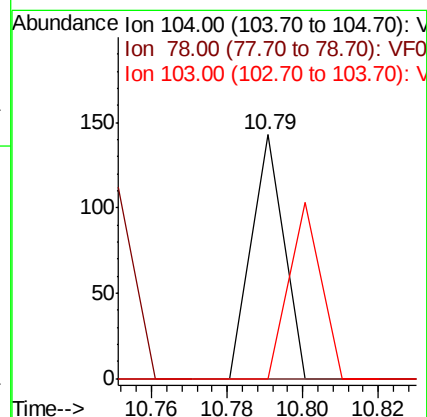
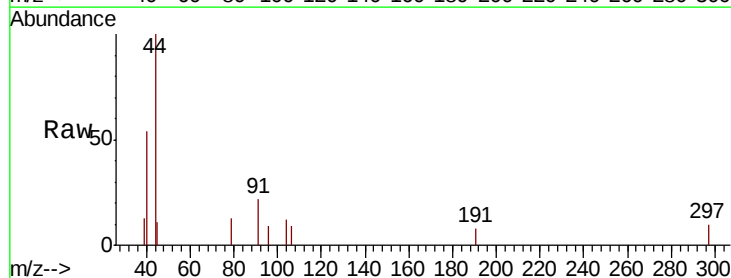
Instrument :
MSVOA_F
ClientSampleId :

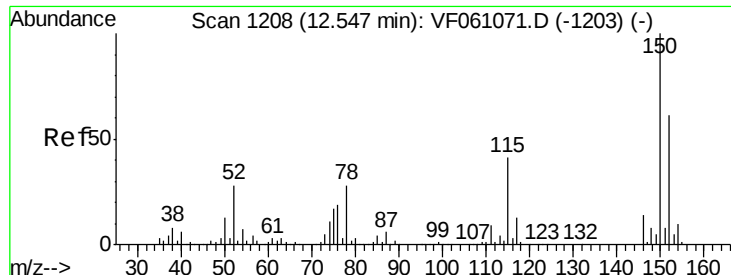
Tot Ion:106 Resp: 6083
Ion Ratio Lower Upper
106 100
91 217.5 115.9 347.7



#70
Styrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Tgt Ion:104 Resp: 85
Ion Ratio Lower Upper
104 100
78 0.0 38.4 57.6#
103 0.0 37.0 55.6#



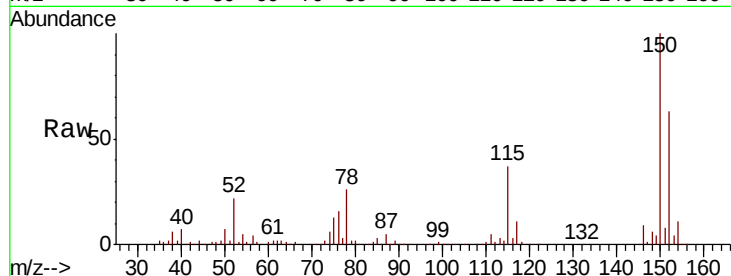


#72

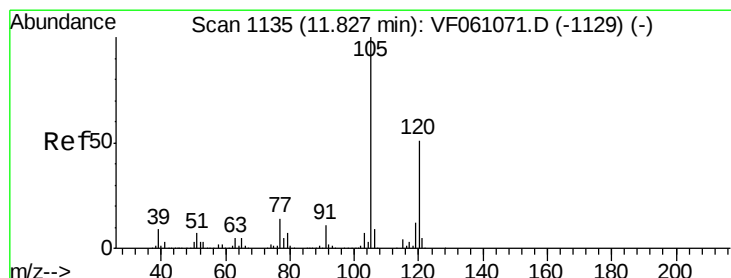
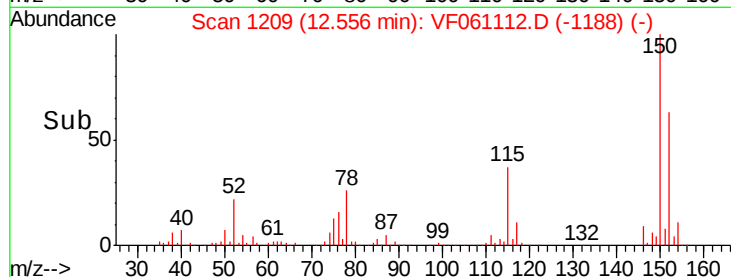
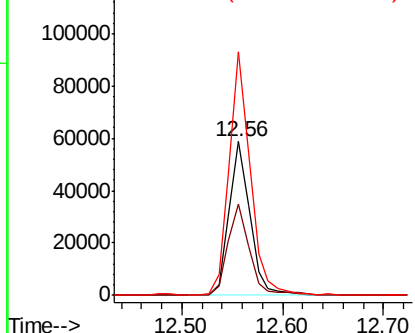
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 84341
Ion Ratio Lower Upper
152 100
115 59.4 33.3 99.9
150 158.7 0.0 328.2



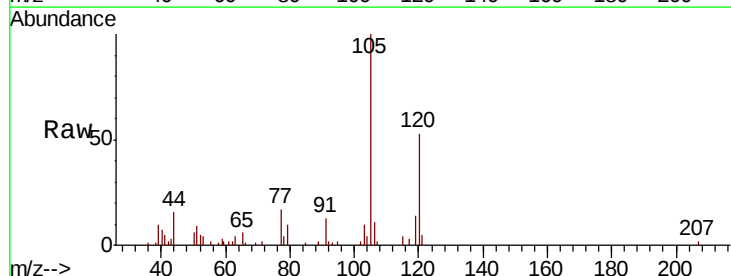
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



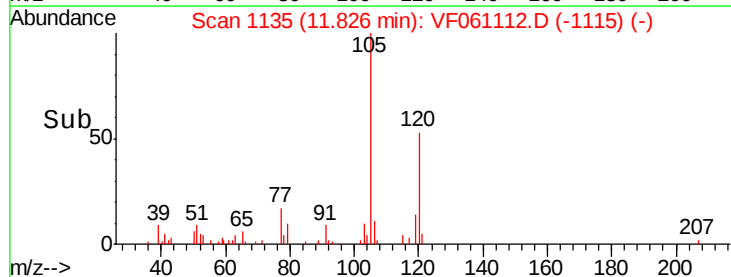
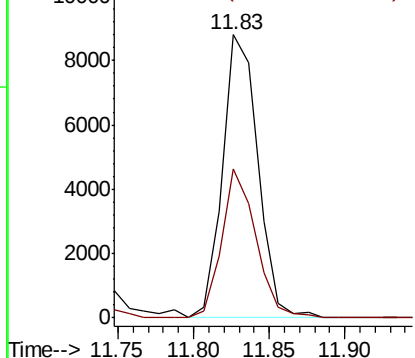
#80

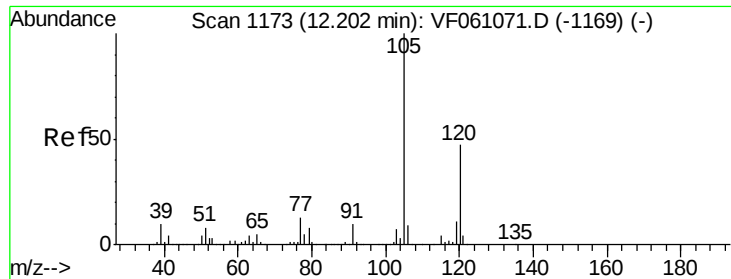
1,3,5-Trimethylbenzene
Concen: 2.390 ug/l
RT: 11.83 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VF061112.D
Acq: 20 Dec 2018 17:11

Tgt Ion:105 Resp: 14302
Ion Ratio Lower Upper
105 100
120 52.7 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

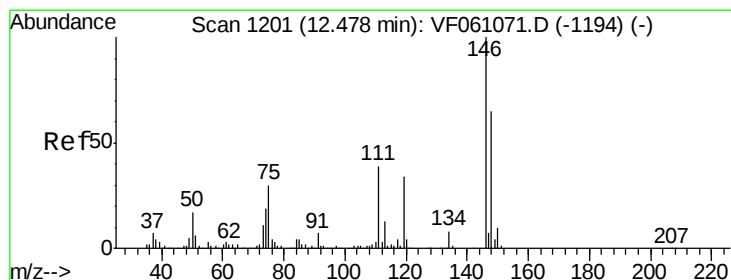
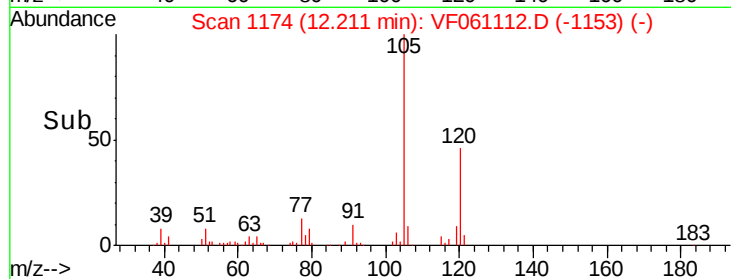
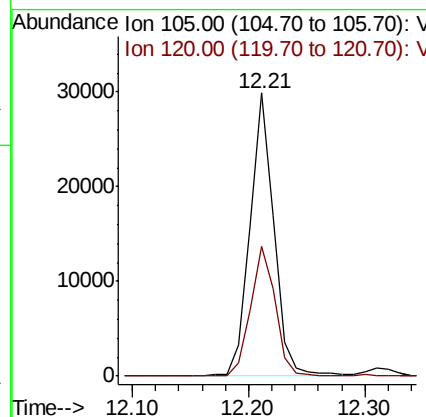
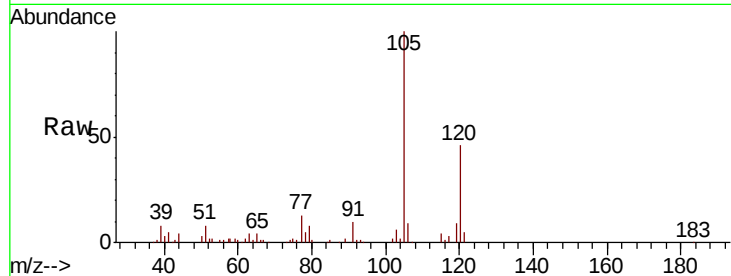




#84
 1,2,4-Trimethylbenzene
 Concen: 7.131 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061112.D
 Acq: 20 Dec 2018 17:11

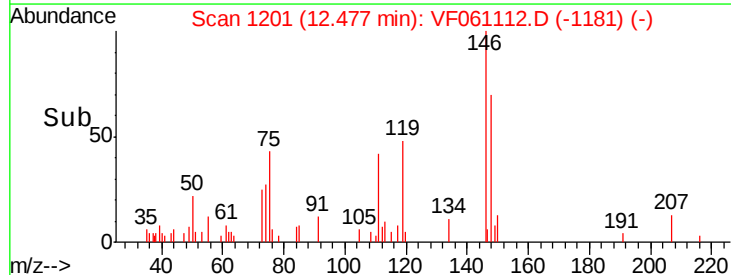
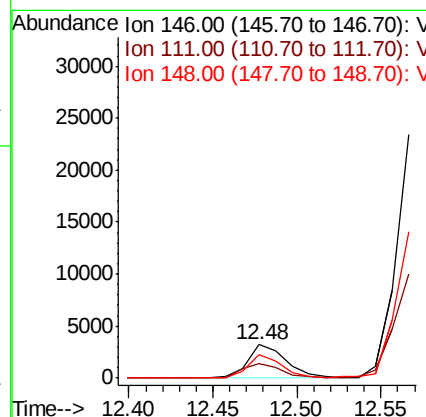
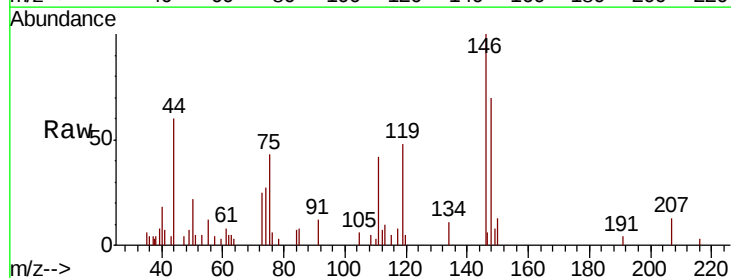
Instrument :
 MSVOA_F
 ClientSampleId :

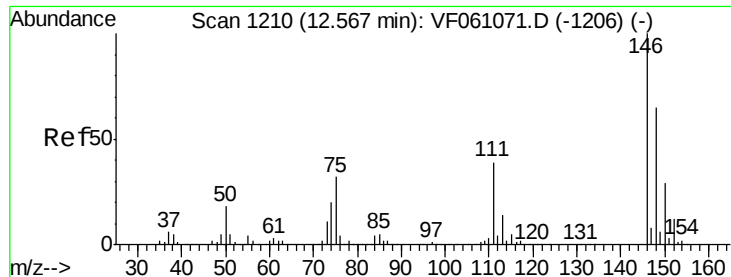
Tot Ion:105 Resp: 42558
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.6 71.0



#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061112.D
 Acq: 20 Dec 2018 17:11

Tgt Ion:146 Resp: 5065
 Ion Ratio Lower Upper
 146 100
 111 41.9 19.3 57.9
 148 70.5 32.4 97.2





#88

1,4-Dichlorobenzene

Concen: 13.590 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

Instrument :

MSVOA_F

ClientSampleId :

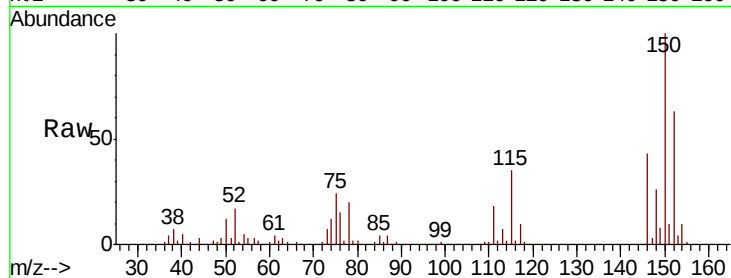
Tot Ion:146 Resp: 39044

Ion Ratio Lower Upper

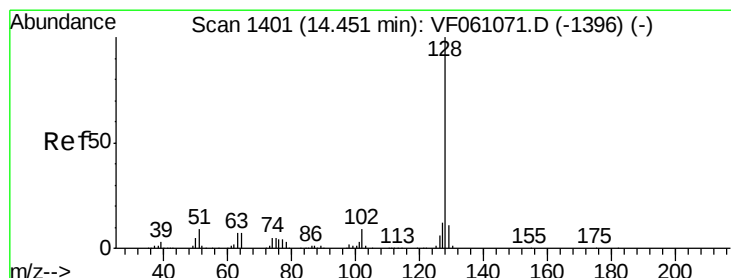
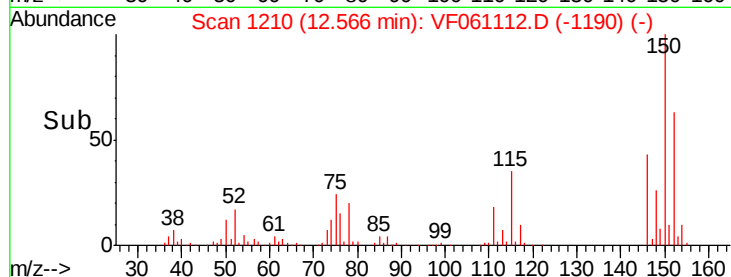
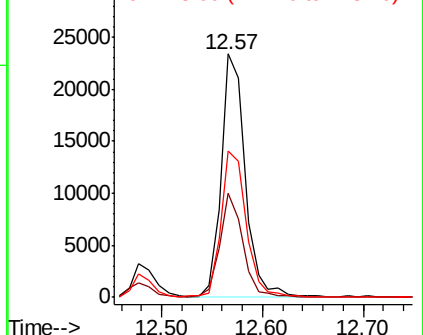
146 100

111 42.7 19.4 58.4

148 60.2 32.4 97.0



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



#95

Naphthalene

Concen: 3.509 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061112.D

Acq: 20 Dec 2018 17:11

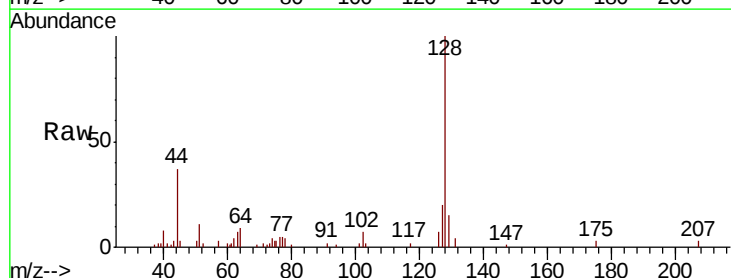
Tgt Ion:128 Resp: 12711

Ion Ratio Lower Upper

128 100

127 20.0 9.4 14.2#

129 14.7 8.8 13.2#



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

