

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061082.D
 Acq On : 19 Dec 2018 13:50
 Operator : VA/AP
 Sample : J6388-04
 Misc : 5.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:22:26 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	4.87	168	217147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	398807	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	294536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	90773	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	113935	40.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.58%	
35) Dibromofluoromethane	4.11	113	126249	39.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.04%	
50) Toluene-d8	7.56	98	269766	29.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.60%	
62) 4-Bromofluorobenzene	11.41	95	100558	24.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	48.18%	

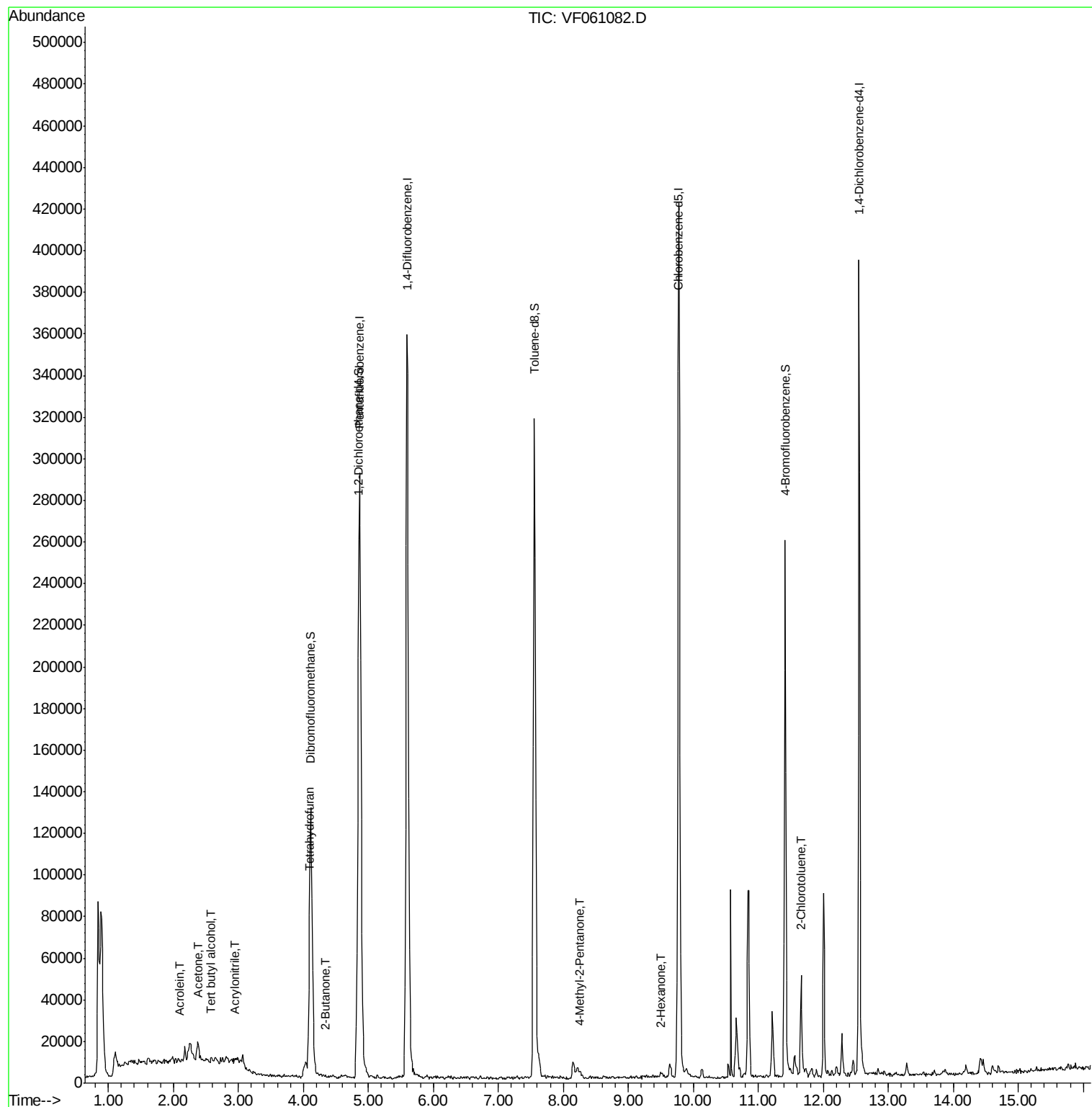
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	216	1.917	ug/l #	1
13) Acrolein	2.10	56	1647	20.224	ug/l	99
15) Acrylonitrile	2.95	53	487	1.869	ug/l #	35
16) Acetone	2.38	43	3298	5.907	ug/l	100
20) Methylene Chloride	2.27	84	5979	Below Cal	#	67
25) 2-Butanone	4.34	43	1904	2.103	ug/l #	53
29) Tetrahydrofuran	4.08	42	1192	3.234	ug/l #	83
51) 4-Methyl-2-Pentanone	8.27	43	2514	1.577	ug/l	100
59) 2-Hexanone	9.50	43	1960	1.700	ug/l	72
70) Styrene	10.79	104	1010	Below Cal	#	72
79) 2-Chlorotoluene	11.66	91	5511	1.027	ug/l #	42
87) 1,3-Dichlorobenzene	12.48	146	504	Below Cal	#	87

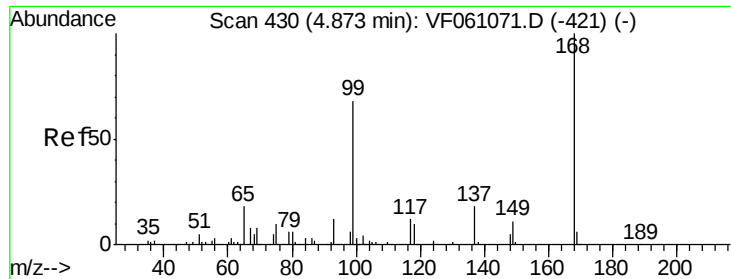
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

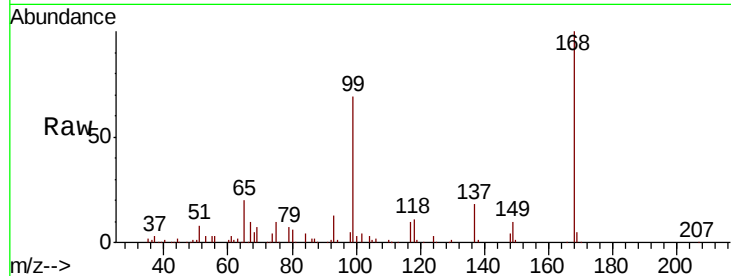
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 217147

Ion Ratio Lower Upper

168 100

99 68.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

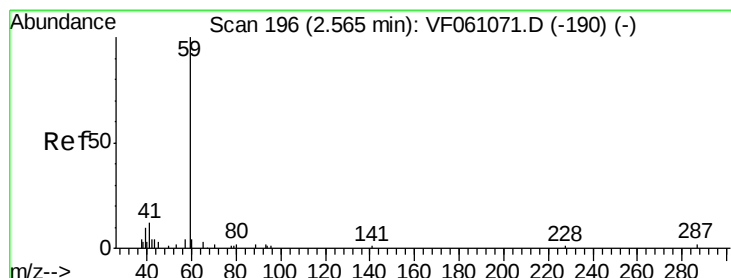
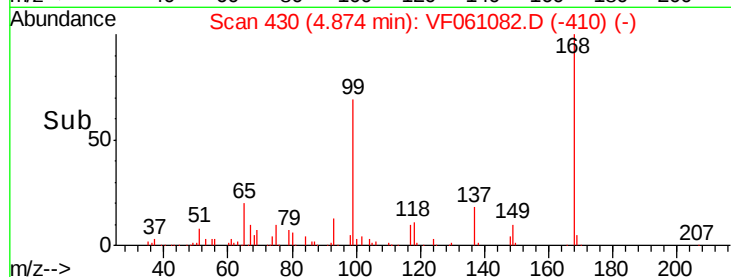
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.917 ug/l

RT: 2.59 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061082.D

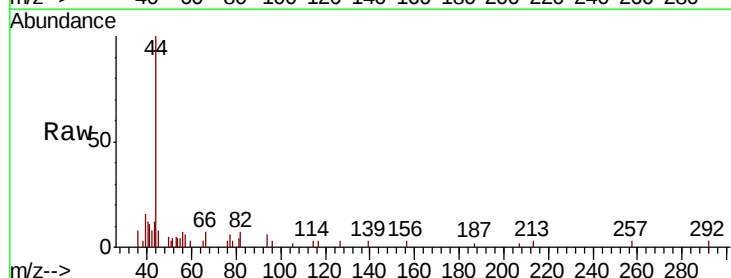
Acq: 19 Dec 2018 13:50

Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

59 100

57 162.2 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

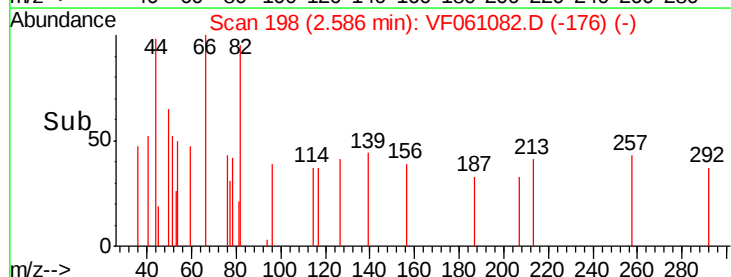
100

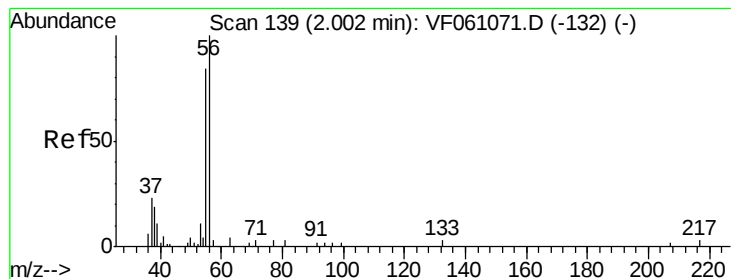
50

0

Time-->

2.55 2.60





#13

Acrolein

Concen: 20.224 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.10 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

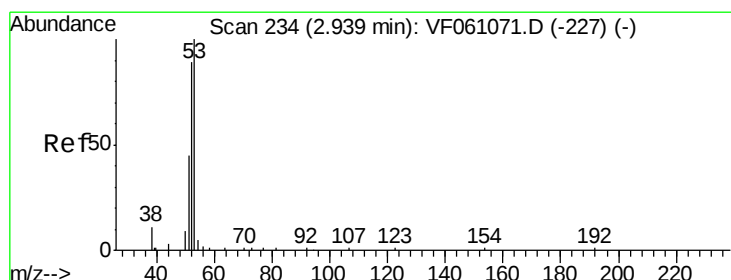
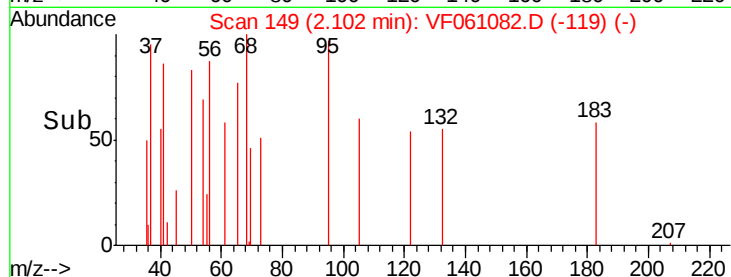
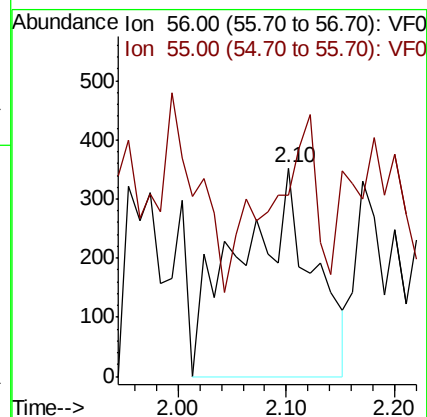
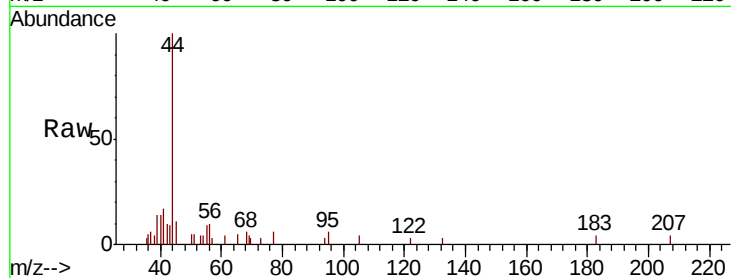
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 1647

Ion Ratio Lower Upper

56 100

55 87.0 70.2 105.2



#15

Acrylonitrile

Concen: 1.869 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

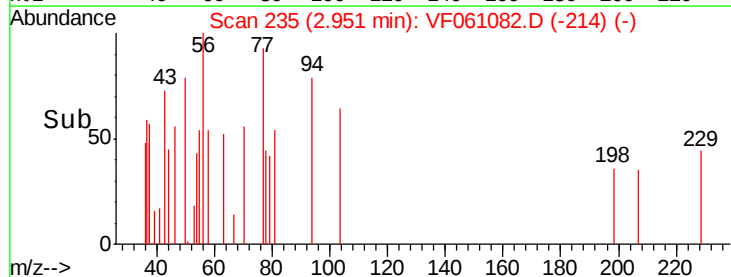
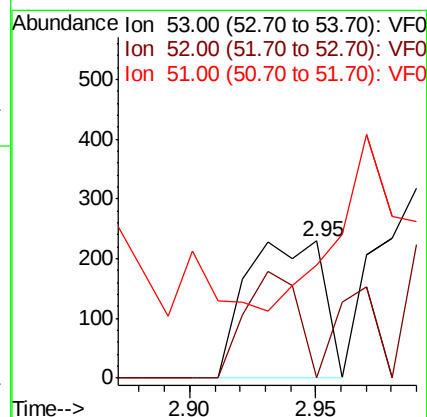
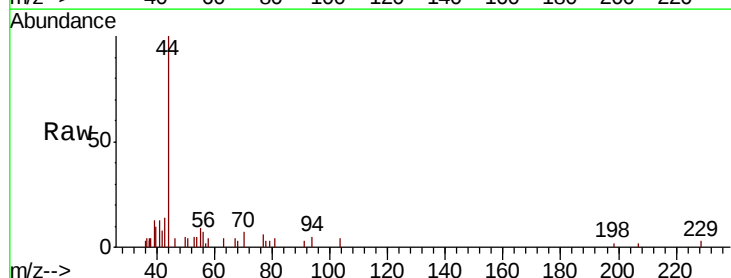
Tgt Ion: 53 Resp: 487

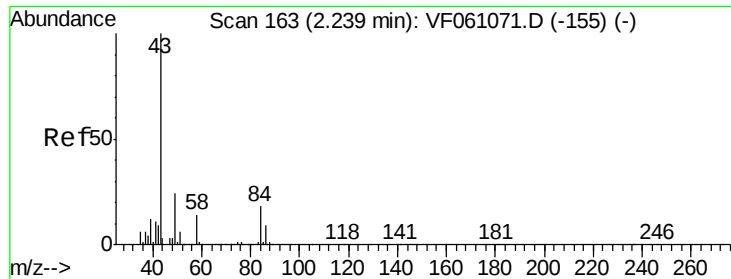
Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 41.7 36.8 55.2

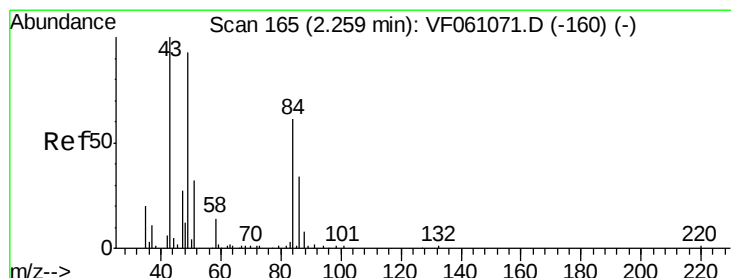
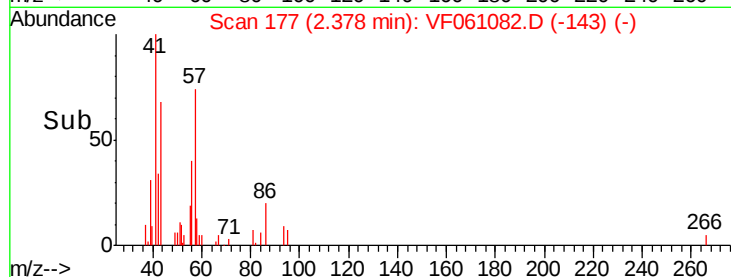
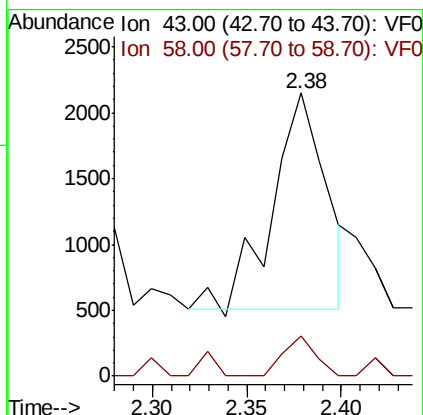
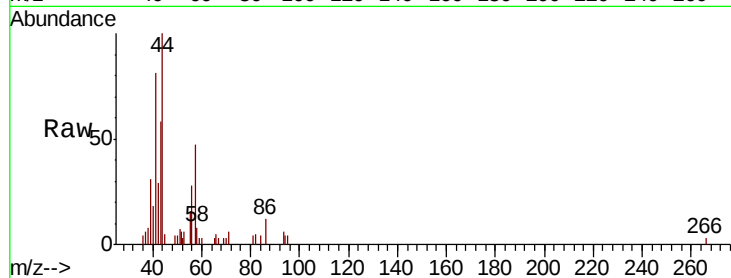




#16
Acetone
Concen: 5.907 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.14 min
Lab File: VF061082.D
Acq: 19 Dec 2018 13:50

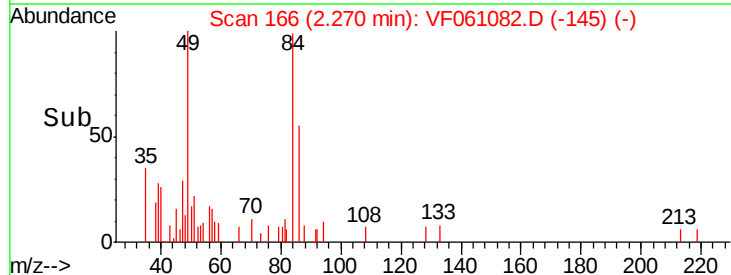
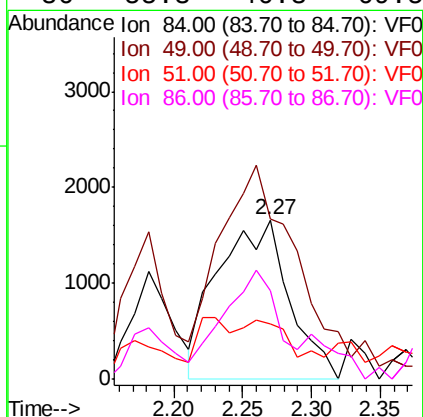
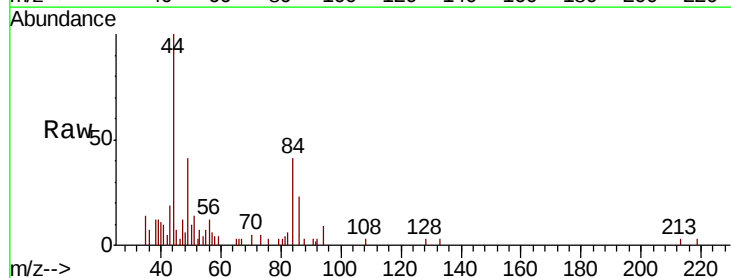
Instrument :
MSVOA_F
ClientSampleId :

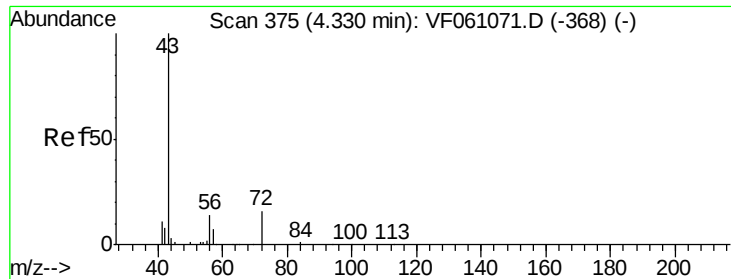
Tot Ion: 43 Resp: 3298
Ion Ratio Lower Upper
43 100
58 14.1 11.1 16.7



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061082.D
Acq: 19 Dec 2018 13:50

Tgt Ion: 84 Resp: 5979
Ion Ratio Lower Upper
84 100
49 101.1 129.4 194.2#
51 34.5 44.0 66.0#
86 55.3 46.3 69.5

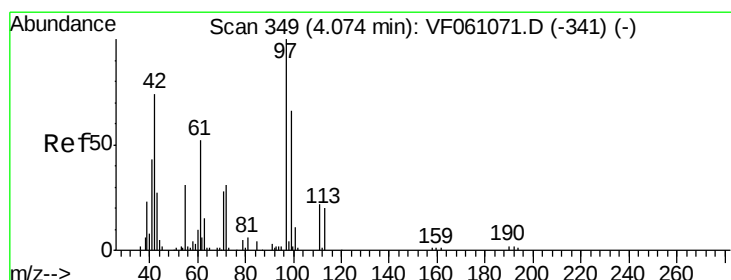
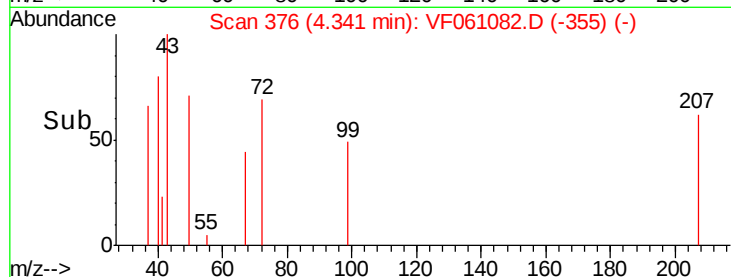
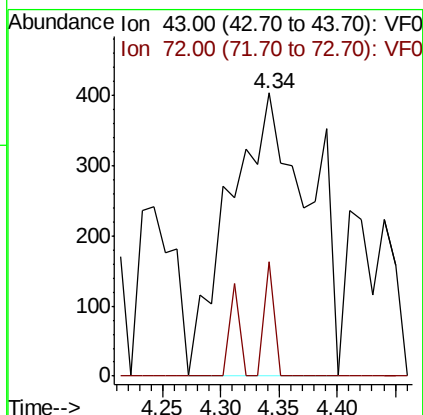
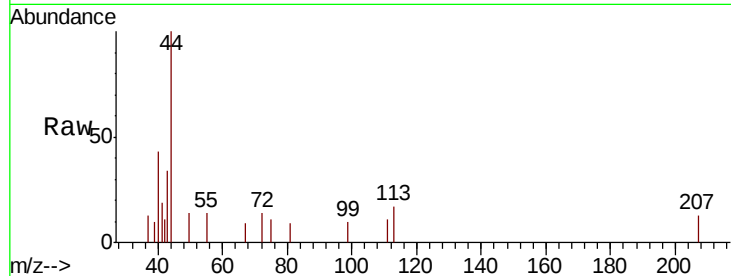




#25
2-Butanone
Concen: 2.103 ug/l
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF061082.D
Acq: 19 Dec 2018 13:50

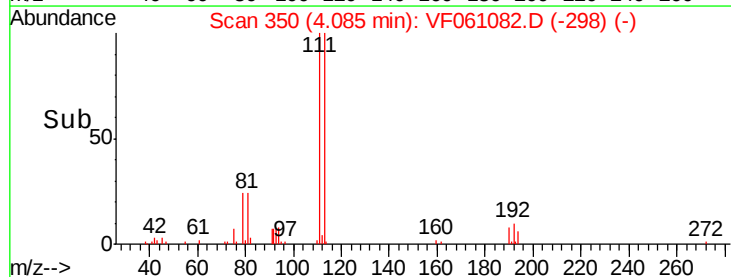
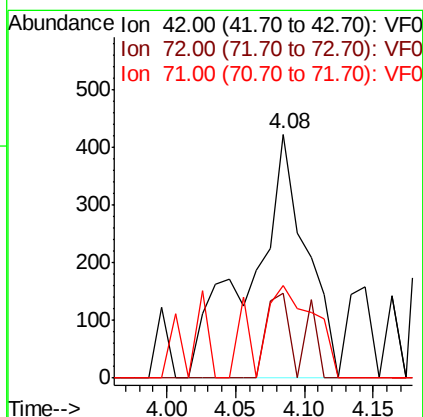
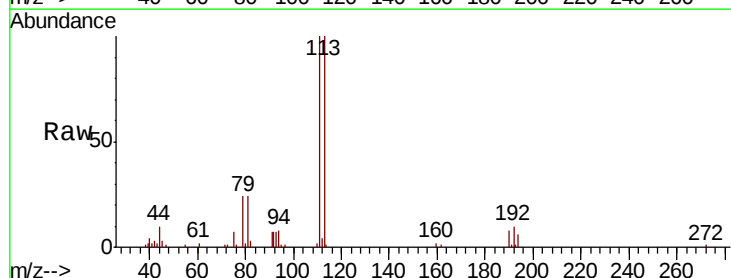
Instrument :
MSVOA_F
ClientSampleId :

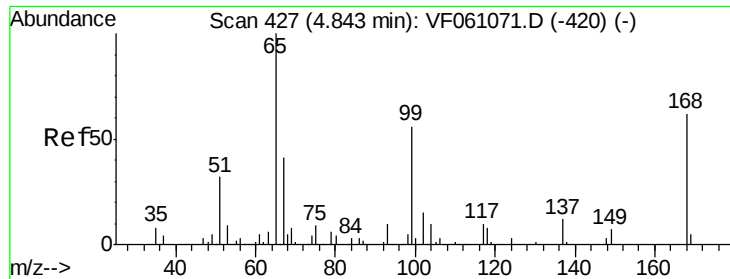
Tot Ion: 43 Resp: 1904
Ion Ratio Lower Upper
43 100
72 40.7 15.6 23.4#



#29
Tetrahydrofuran
Concen: 3.234 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF061082.D
Acq: 19 Dec 2018 13:50

Tgt Ion: 42 Resp: 1192
Ion Ratio Lower Upper
42 100
72 20.6 31.8 47.8#
71 38.1 29.7 44.5





#33

1,2-Dichloroethane-d4

Concen: 40.795 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

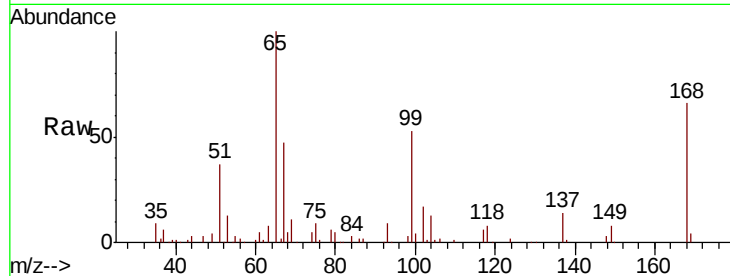
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 113935

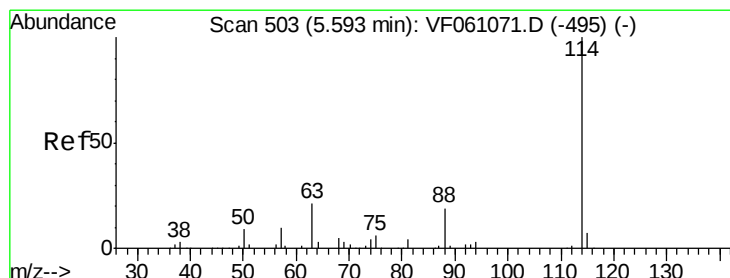
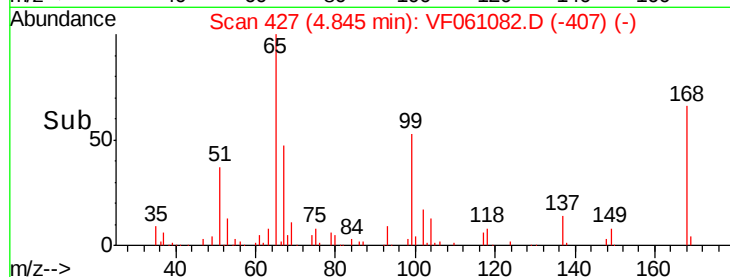
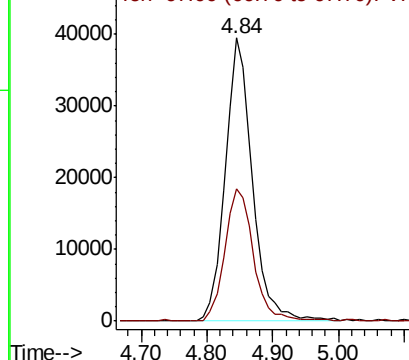
Ion Ratio Lower Upper

65 100

67 46.9 0.0 94.6



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: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

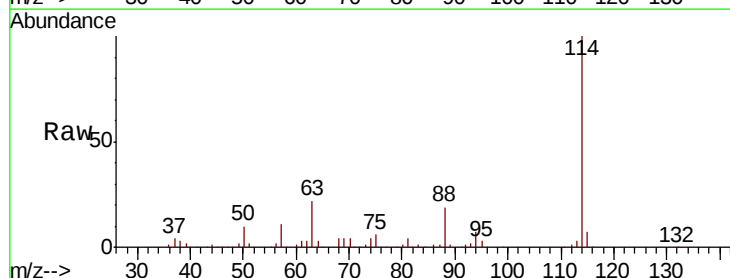
Tgt Ion: 114 Resp: 398807

Ion Ratio Lower Upper

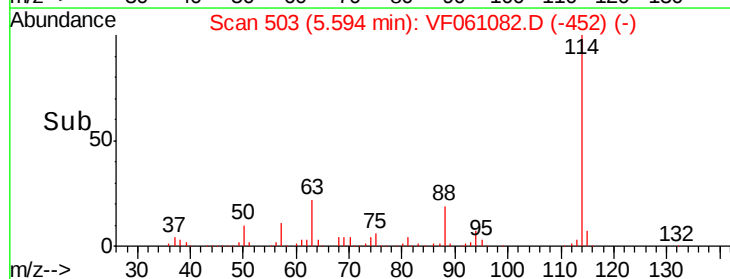
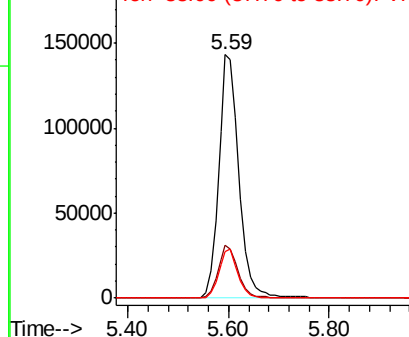
114 100

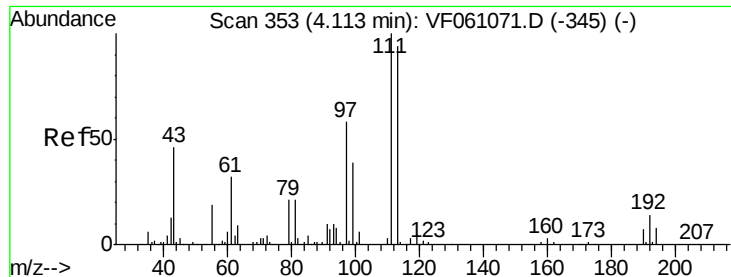
63 21.7 0.0 41.6

88 19.2 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: 39.519 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :

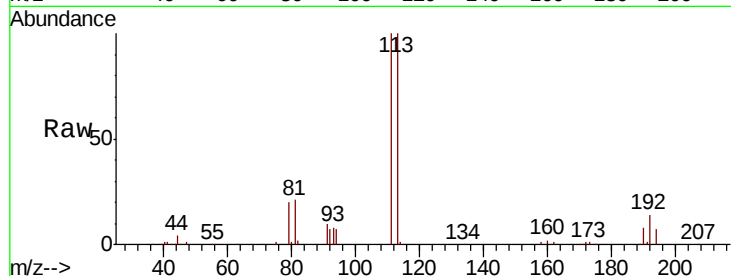
Tot Ion:113 Resp: 126249

Ion Ratio Lower Upper

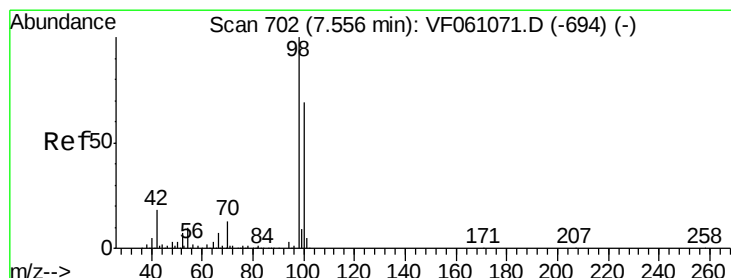
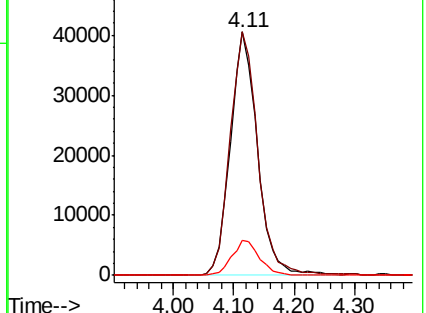
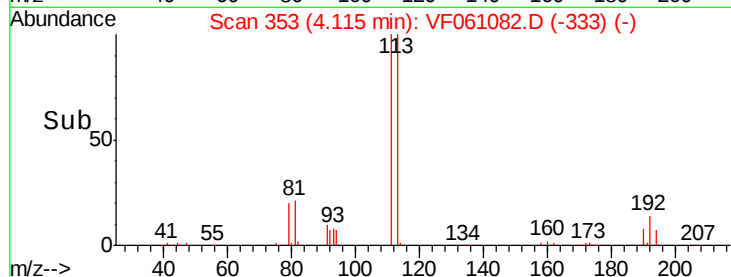
113 100

111 99.8 85.2 127.8

192 14.1 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



#50

Toluene-d8

Concen: 29.797 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061082.D

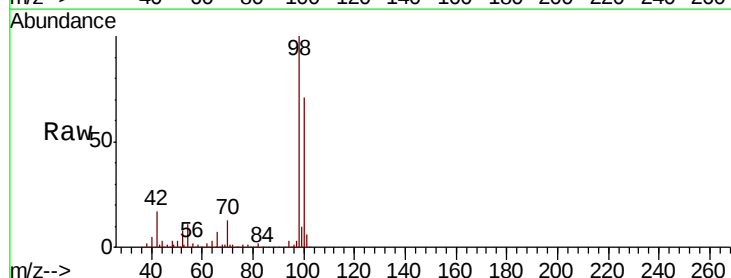
Acq: 19 Dec 2018 13:50

Tgt Ion: 98 Resp: 269766

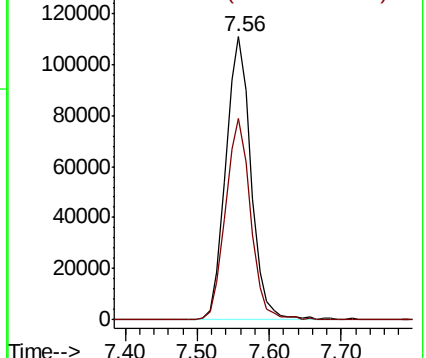
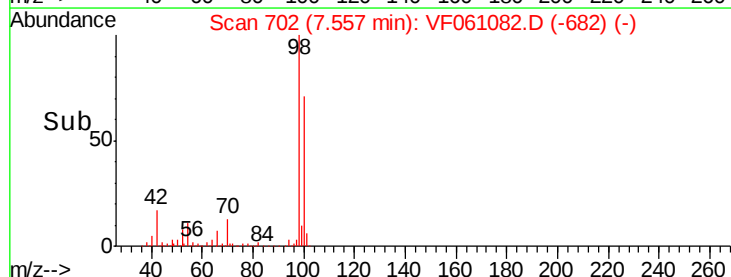
Ion Ratio Lower Upper

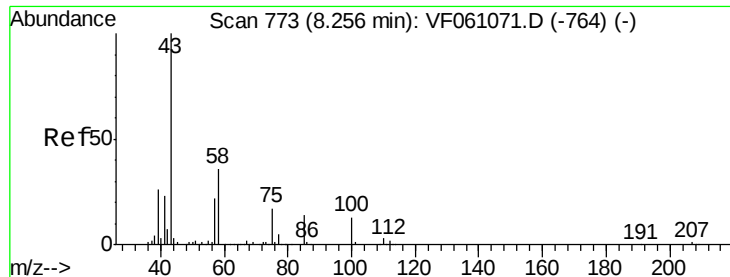
98 100

100 71.0 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.577 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

Instrument :

MSVOA_F

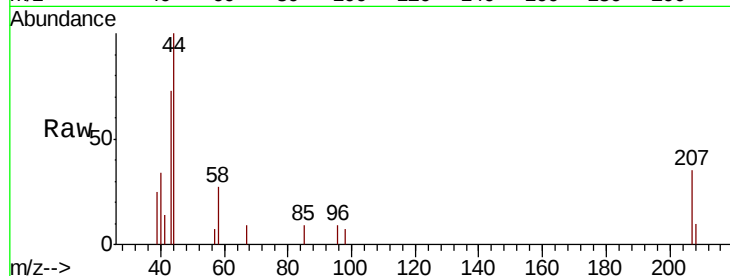
ClientSampleId :

Tot Ion: 43 Resp: 2514

Ion Ratio Lower Upper

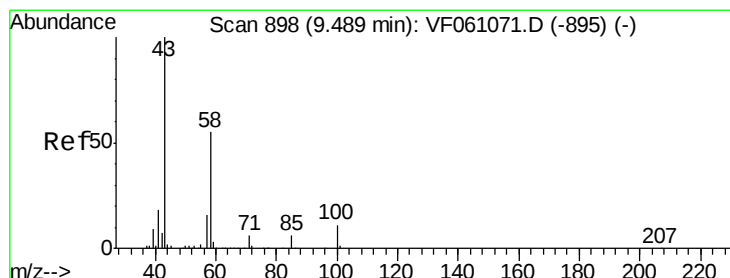
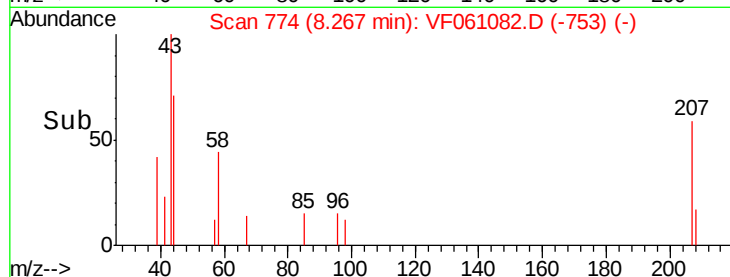
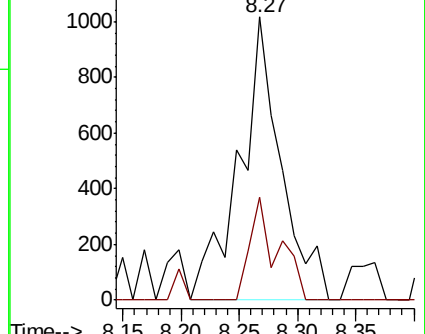
43 100

58 36.5 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.700 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.01 min

Lab File: VF061082.D

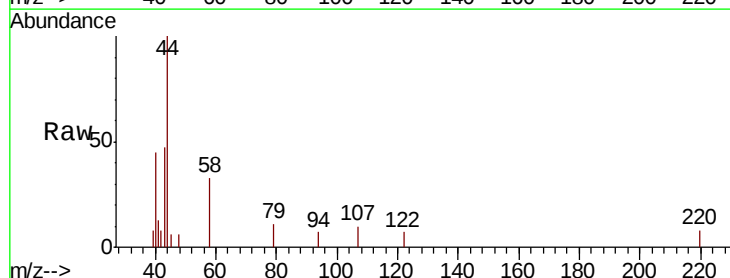
Acq: 19 Dec 2018 13:50

Tgt Ion: 43 Resp: 1960

Ion Ratio Lower Upper

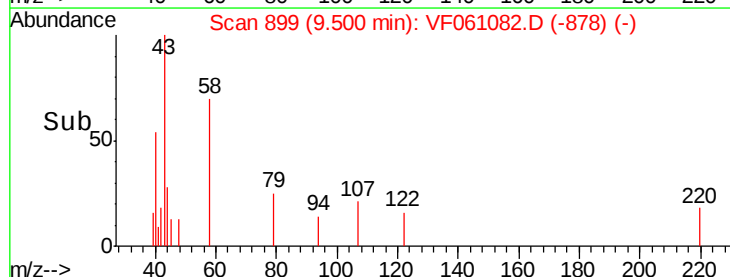
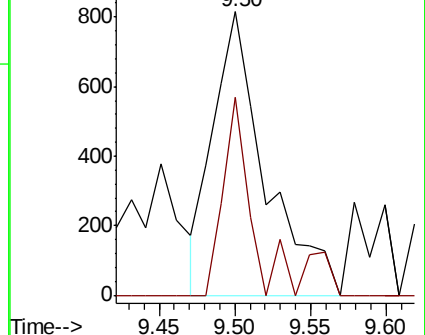
43 100

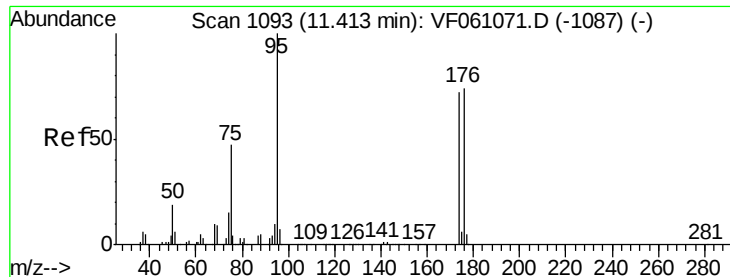
58 69.7 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 24.093 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

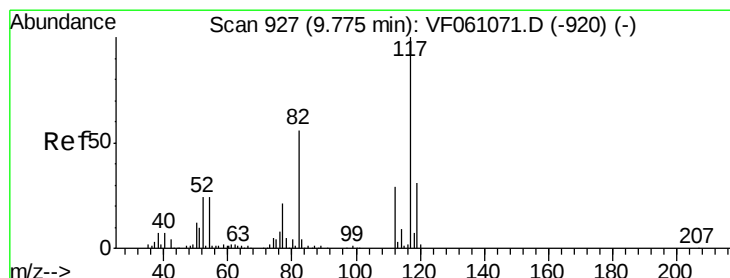
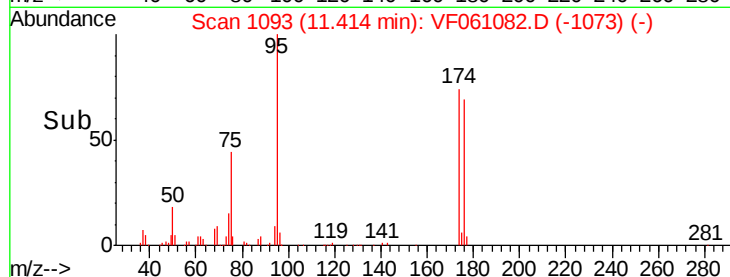
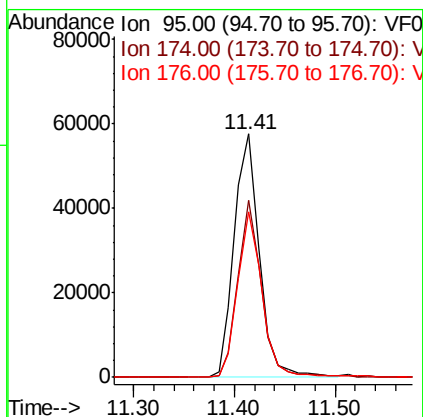
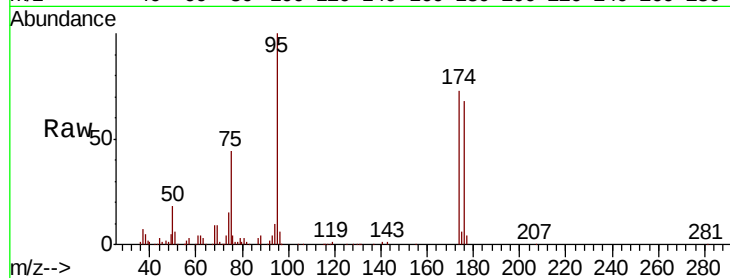
Tot Ion: 95 Resp: 100558

Ion Ratio Lower Upper

95 100

174 72.9 0.0 143.8

176 67.9 0.0 147.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

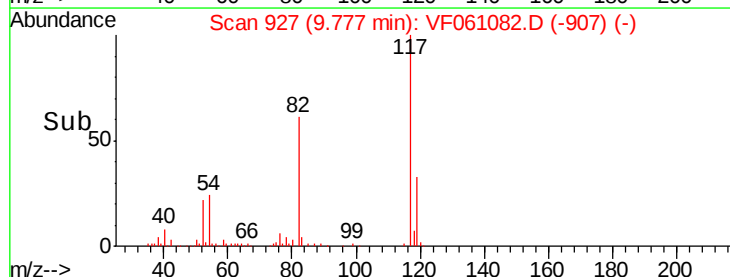
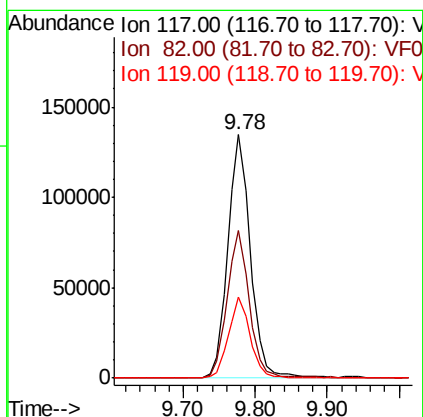
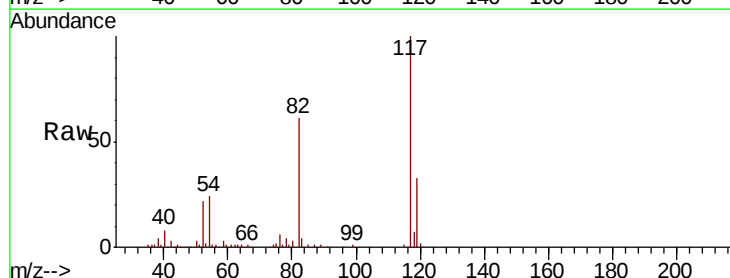
Tgt Ion: 117 Resp: 294536

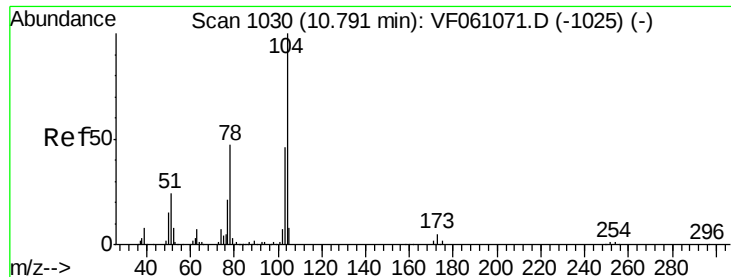
Ion Ratio Lower Upper

117 100

82 60.7 45.0 67.4

119 33.4 24.8 37.2





#70

Stvrene

Concen: Below Cal

RT: 10.79 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

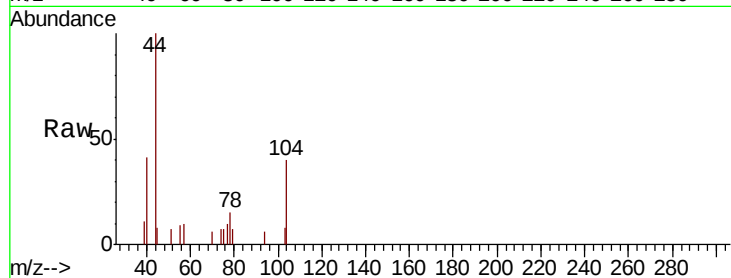
Tot Ion:104 Resp: 1010

Ion Ratio Lower Upper

104 100

78 36.7 38.4 57.6#

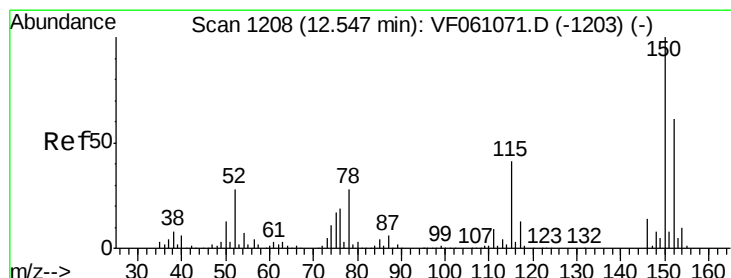
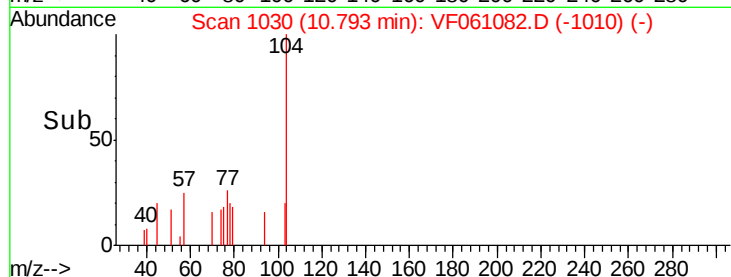
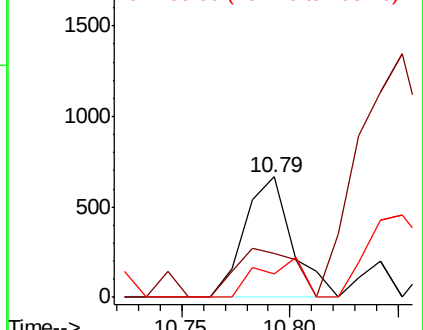
103 19.5 37.0 55.6#



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: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

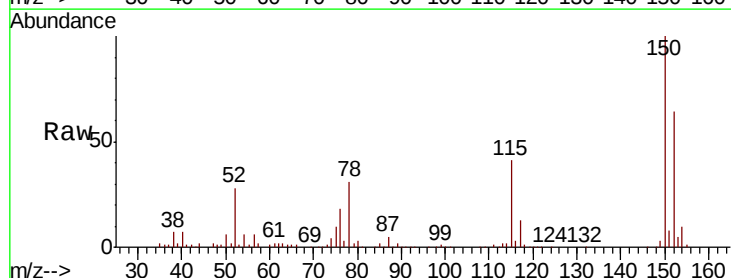
Tgt Ion:152 Resp: 90773

Ion Ratio Lower Upper

152 100

115 63.2 33.3 99.9

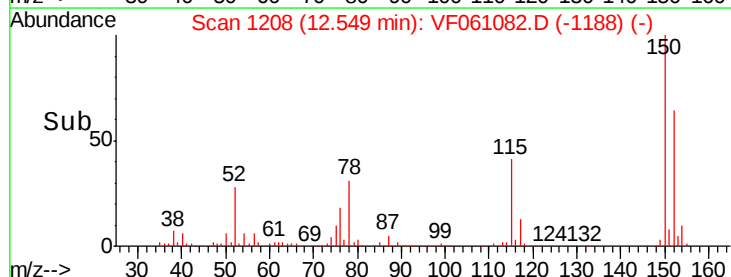
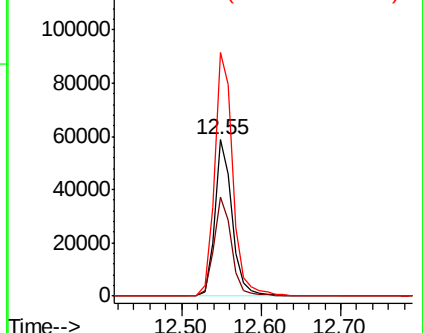
150 155.8 0.0 328.2

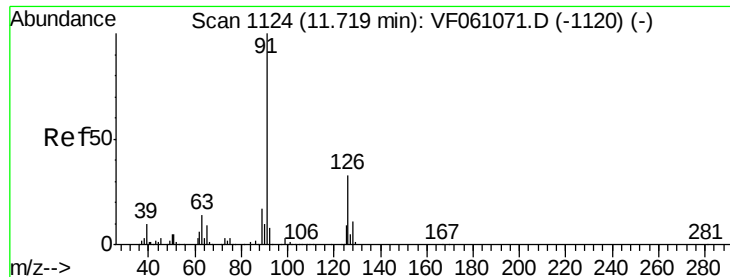


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#79

2-Chlorotoluene

Concen: 1.027 ug/l

RT: 11.66 min Scan# 1118

Delta R.T. -0.06 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

Instrument :

MSVOA_F

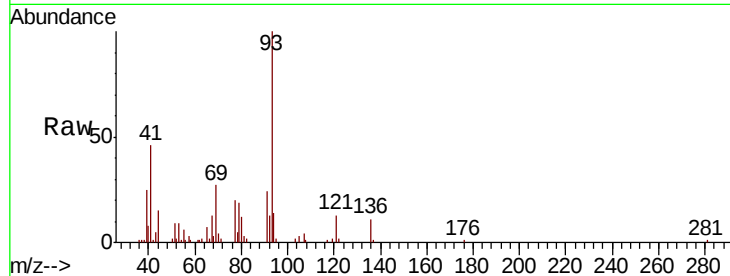
ClientSampleId :

Tot Ion: 91 Resp: 5511

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#

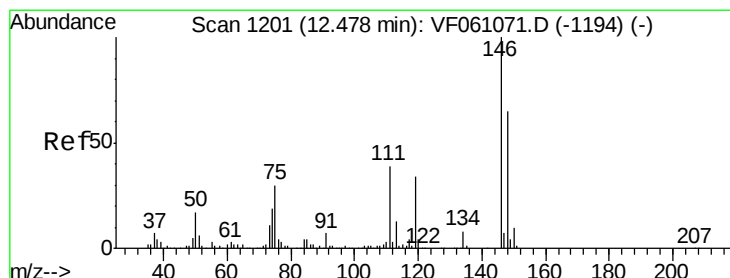
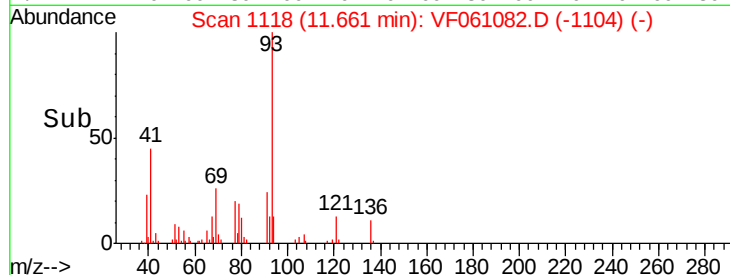


Abundance Ion 91.00 (90.70 to 91.70): VF061071.D (-1120) (-)

Ion 126.00 (125.70 to 126.70): VF061071.D (-1120) (-)

11.66

Time-->



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.48 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF061082.D

Acq: 19 Dec 2018 13:50

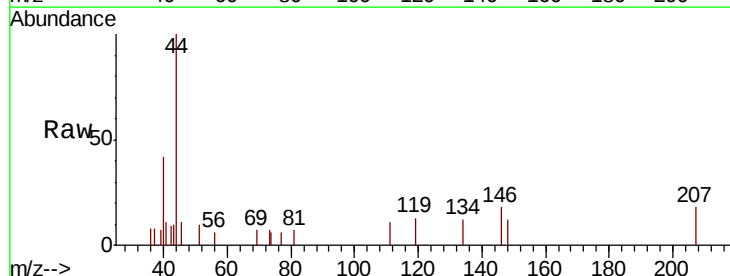
Tgt Ion: 146 Resp: 504

Ion Ratio Lower Upper

146 100

111 58.3 19.3 57.9#

148 64.0 32.4 97.2



Abundance Ion 146.00 (145.70 to 146.70): VF061071.D (-1194) (-)

Ion 111.00 (110.70 to 111.70): VF061071.D (-1194) (-)

Ion 148.00 (147.70 to 148.70): VF061071.D (-1194) (-)

12.48

Time-->

