

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061119.D
 Acq On : 21 Dec 2018 11:48
 Operator : VA/AP
 Sample : VF1221SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBL01

Quant Time: Dec 21 14:14:58 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	4.90	168	208754	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.63	114	377643	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.80	117	326660	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.58	152	180352	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	142164	52.95	ug/l	0.04
Spiked Amount	50.000		Recovery	=	105.90%	
35) Dibromofluoromethane	4.15	113	167358	55.32	ug/l	0.04
Spiked Amount	50.000		Recovery	=	110.64%	
50) Toluene-d8	7.58	98	433713	50.59	ug/l	0.03
Spiked Amount	50.000		Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.43	95	213088	53.92	ug/l	0.02
Spiked Amount	50.000		Recovery	=	107.84%	

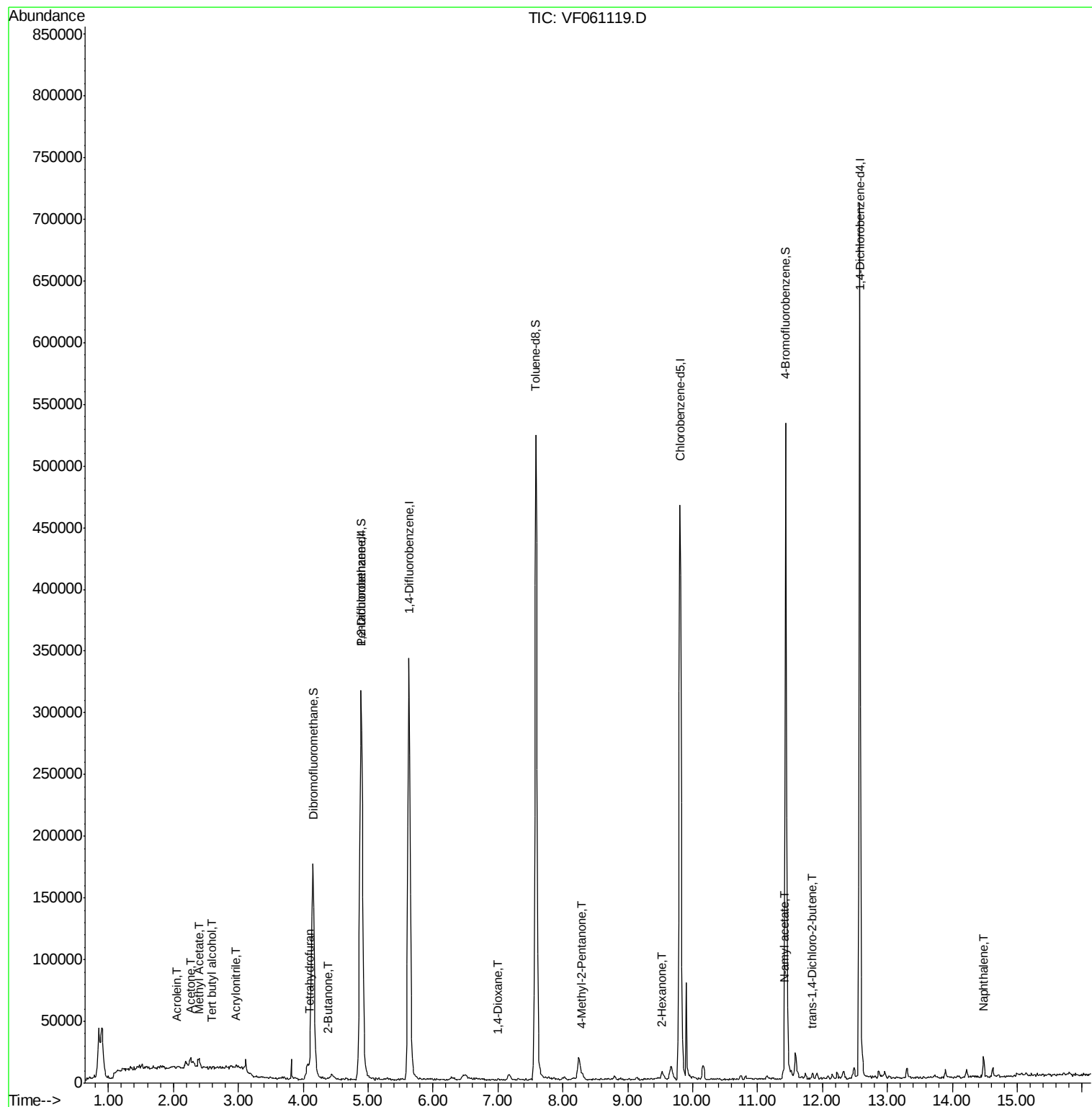
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	243	2.243	ug/l #	65
13) Acrolein	2.05	56	682	8.711	ug/l	97
15) Acrylonitrile	2.97	53	624	2.491	ug/l #	82
16) Acetone	2.26	43	2532	4.717	ug/l	97
18) Methyl Acetate	2.39	43	3151	2.837	ug/l #	89
20) Methylene Chloride	2.27	84	5143	Below Cal	#	87
25) 2-Butanone	4.38	43	2321	2.666	ug/l #	57
29) Tetrahydrofuran	4.09	42	639	1.804	ug/l #	37
49) 1,4-Dioxane	7.00	88	59	5.292	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	4534	3.004	ug/l	99
59) 2-Hexanone	9.53	43	5468	5.009	ug/l	89
70) Styrene	10.82	104	1130	Below Cal		94
74) N-amyl acetate	11.40	43	3750	1.087	ug/l #	86
78) n-propylbenzene	11.62	91	2723	Below Cal		89
81) trans-1,4-Dichloro-2-buten	11.84	75	844	1.023	ug/l #	11
87) 1,3-Dichlorobenzene	12.50	146	1663	Below Cal		99
95) Naphthalene	14.48	128	9733	1.257	ug/l #	95

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF122118\
Data File : VF061119.D
Acq On : 21 Dec 2018 11:48
Operator : VA/AP
Sample : VF1221SBL01
Misc : 5.00µL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBL01

Quant Time: Dec 21 14:14:58 2018
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: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

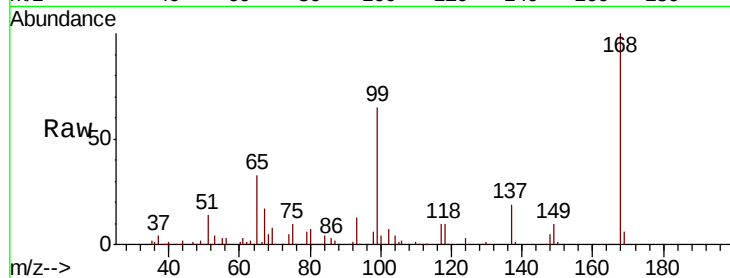
VF1221SBL01

Tot Ion:168 Resp: 208754

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

4.90

60000

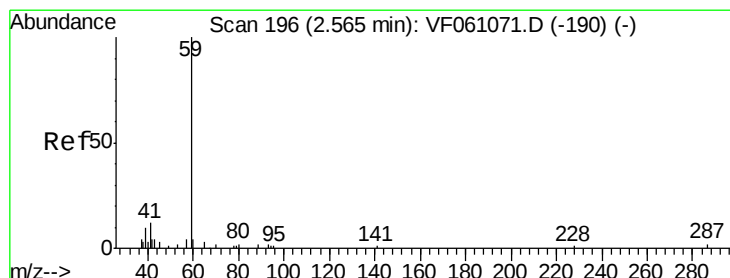
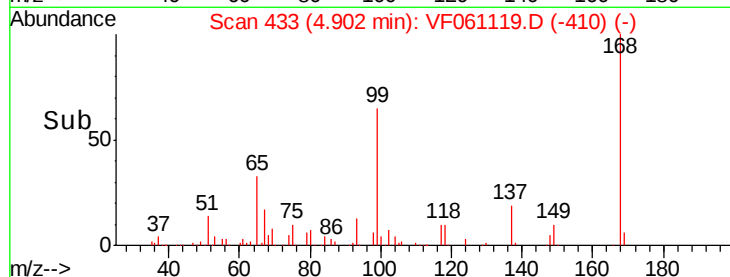
40000

20000

0

Time-->

4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 2.243 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061119.D

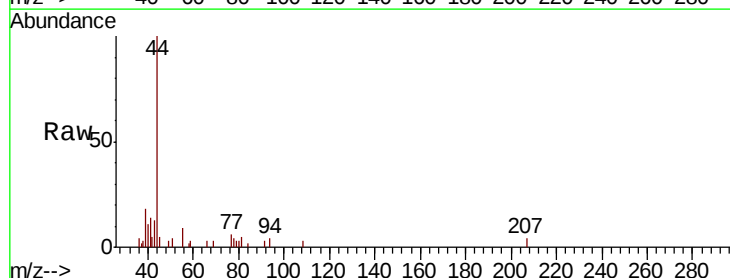
Acq: 21 Dec 2018 11:48

Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

59 100

57 0.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

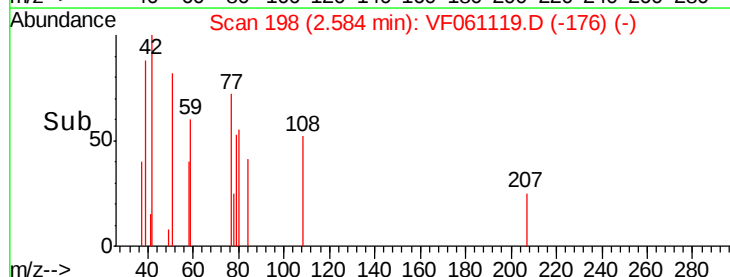
200

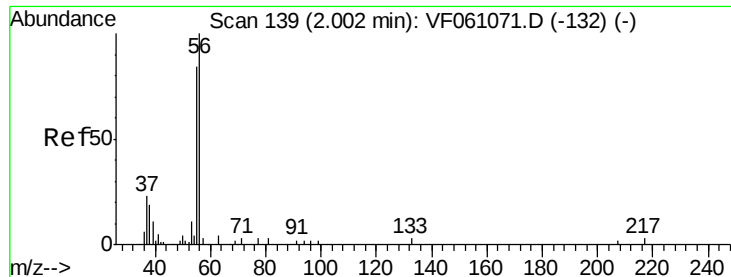
100

0

Time-->

2.52 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 8.711 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.05 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

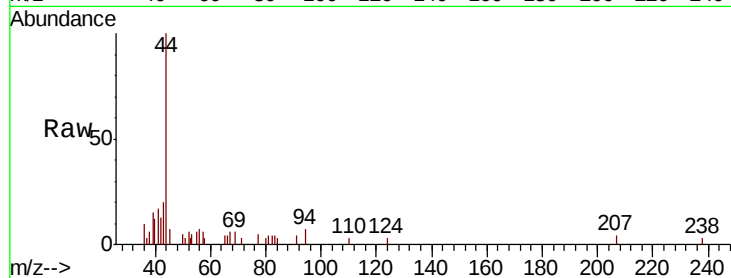
VF1221SBL01

Tot Ion: 56 Resp: 682

Ion Ratio Lower Upper

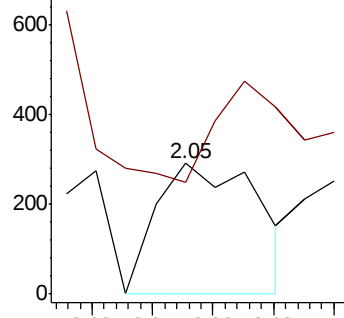
56 100

55 85.2 70.2 105.2

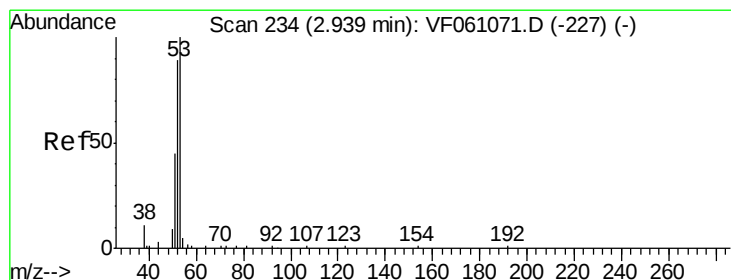
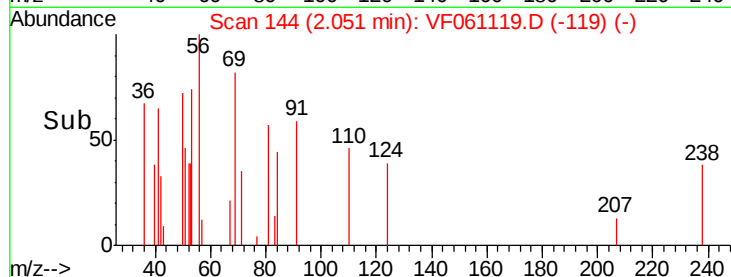


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#15

Acrylonitrile

Concen: 2.491 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

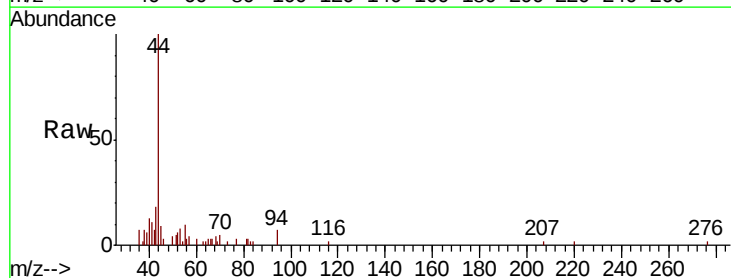
Tgt Ion: 53 Resp: 624

Ion Ratio Lower Upper

53 100

52 68.5 71.3 106.9#

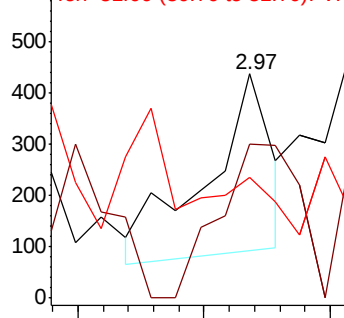
51 53.7 36.8 55.2



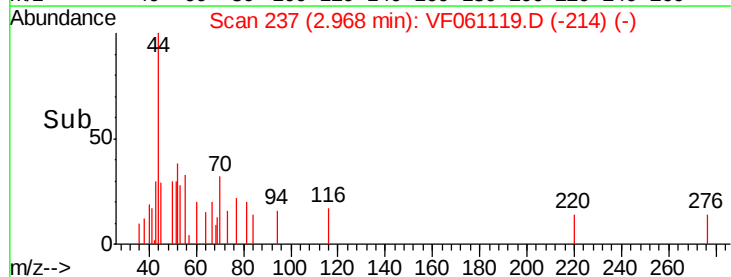
Abundance Ion 53.00 (52.70 to 53.70): VF0

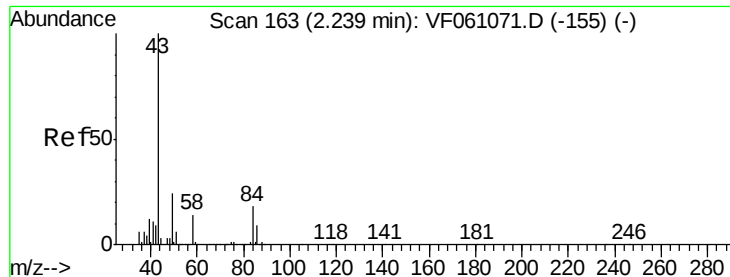
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->

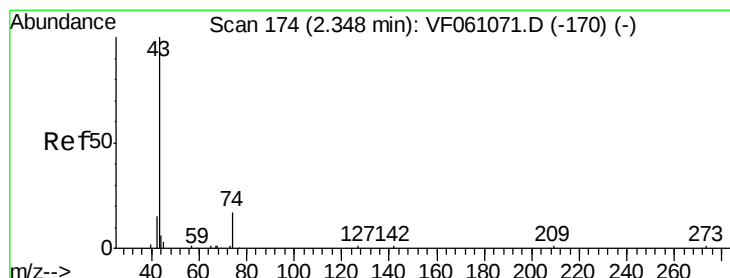
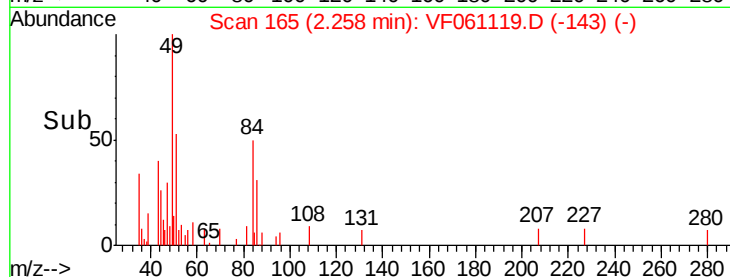
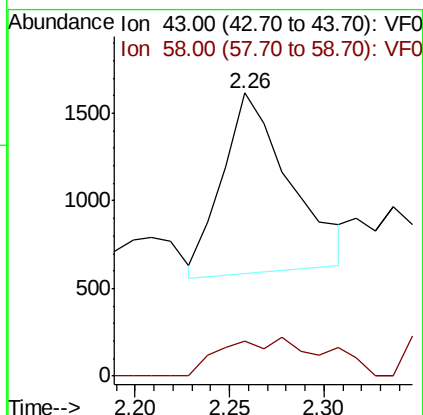
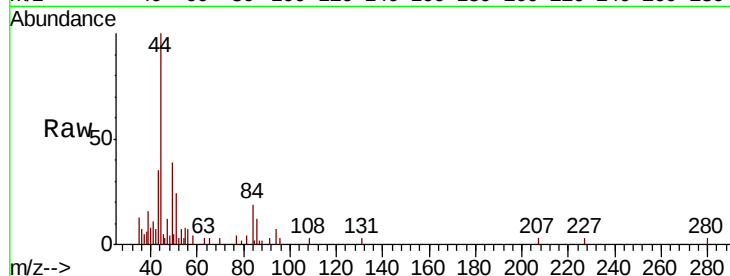




#16
Acetone
Concen: 4.717 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.02 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

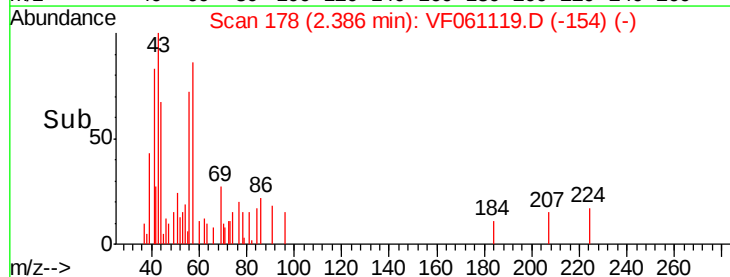
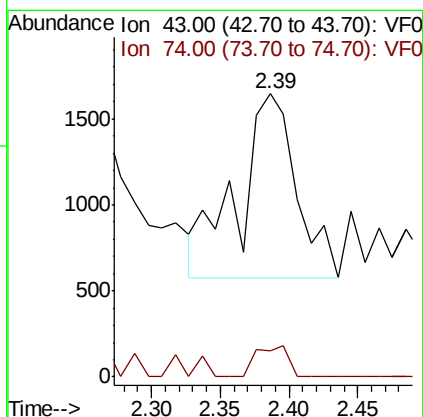
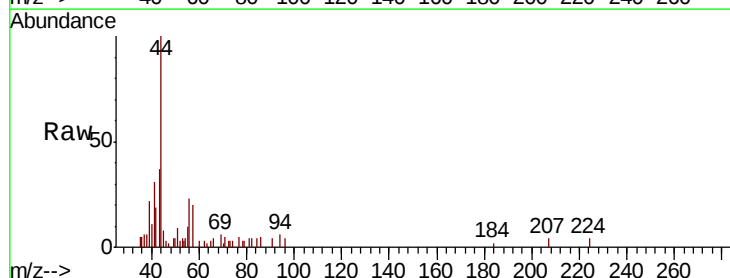
Instrument :
MSVOA_F
ClientSampleId :
VF1221SBL01

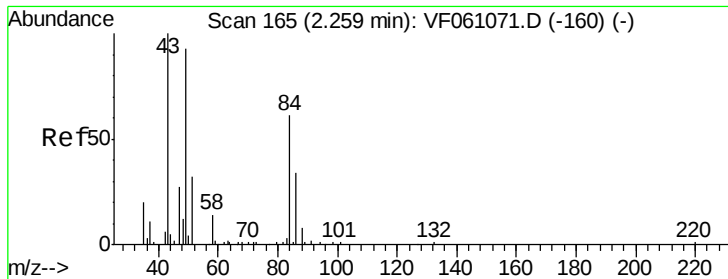
Tot Ion: 43 Resp: 2532
Ion Ratio Lower Upper
43 100
58 12.6 11.1 16.7



#18
Methyl Acetate
Concen: 2.837 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

Tgt Ion: 43 Resp: 3151
Ion Ratio Lower Upper
43 100
74 9.2 11.0 16.6#

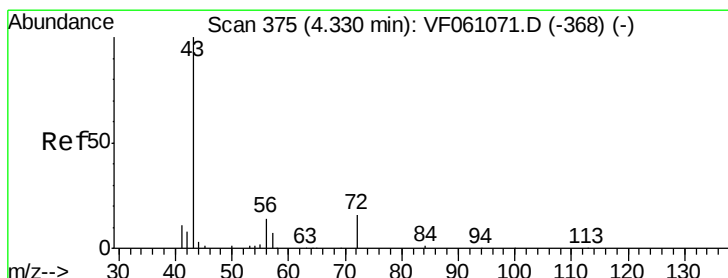
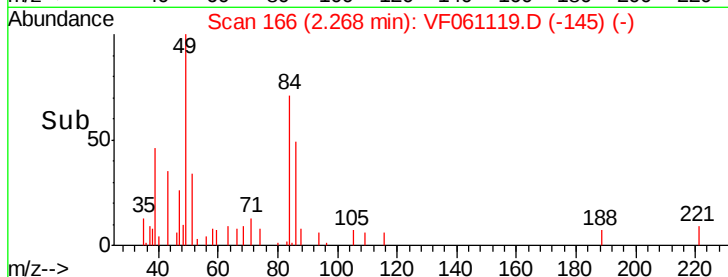
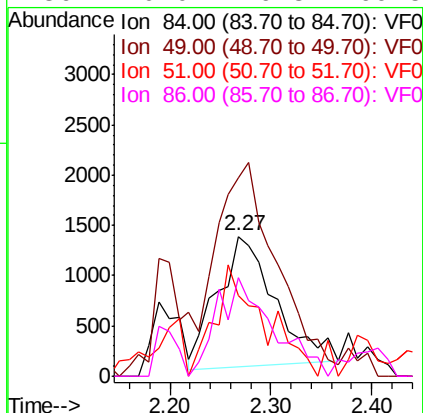
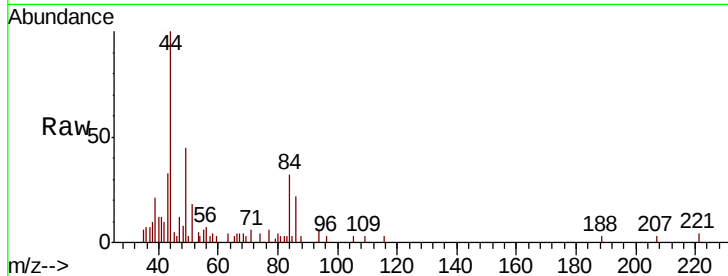




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

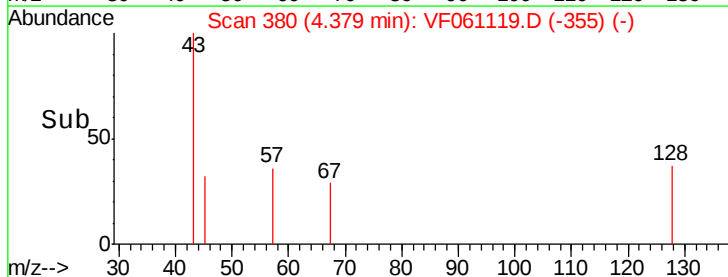
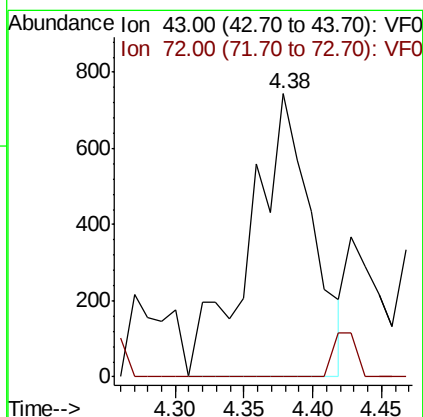
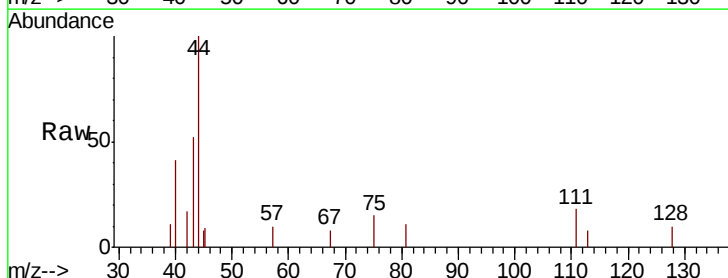
Instrument :
MSVOA_F
ClientSampleId :
VF1221SBL01

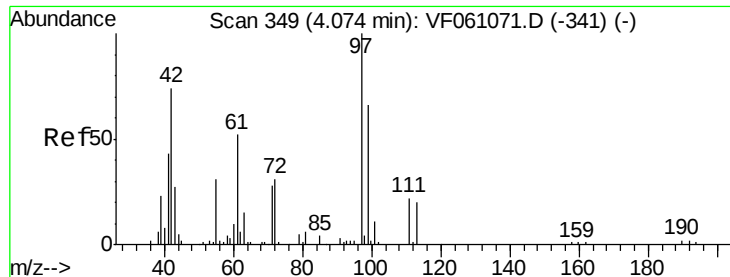
Tot Ion: 84 Resp: 5143
Ion Ratio Lower Upper
84 100
49 141.5 129.4 194.2
51 57.6 44.0 66.0
86 70.0 46.3 69.5#



#25
2-Butanone
Concen: 2.666 ug/l
RT: 4.38 min Scan# 380
Delta R.T. 0.05 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

Tgt Ion: 43 Resp: 2321
Ion Ratio Lower Upper
43 100
72 0.0 15.6 23.4#





#29

Tetrahydrofuran

Concen: 1.804 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBL01

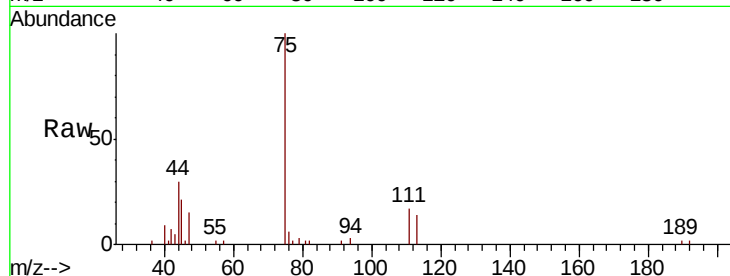
Tot Ion: 42 Resp: 639

Ion Ratio Lower Upper

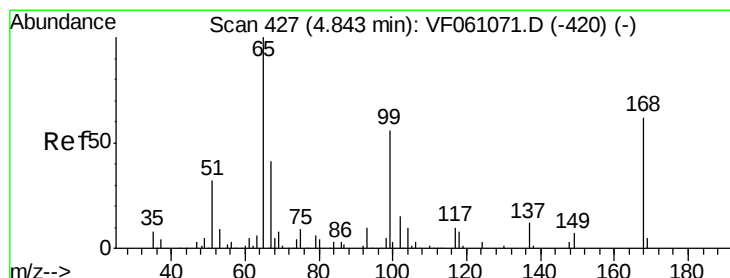
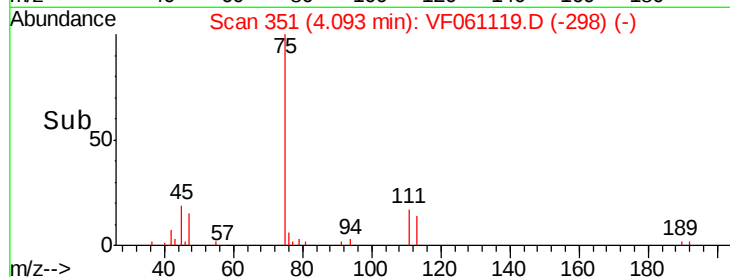
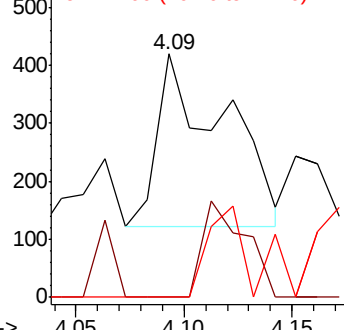
42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 52.949 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.04 min

Lab File: VF061119.D

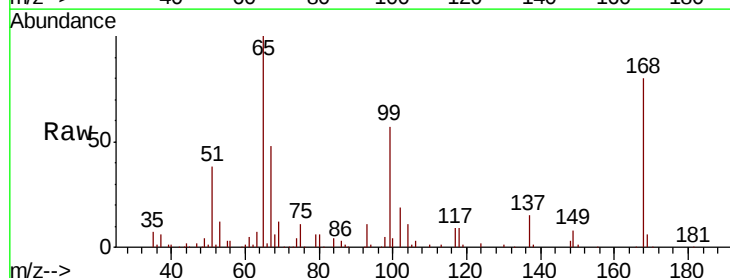
Acq: 21 Dec 2018 11:48

Tgt Ion: 65 Resp: 142164

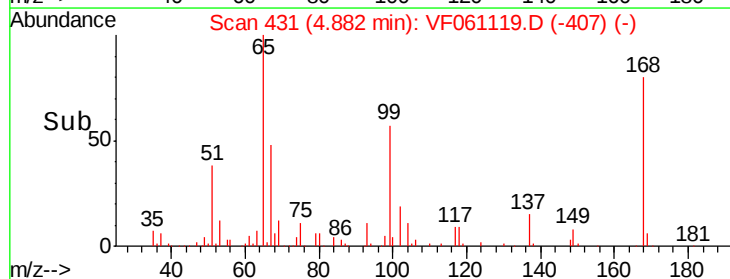
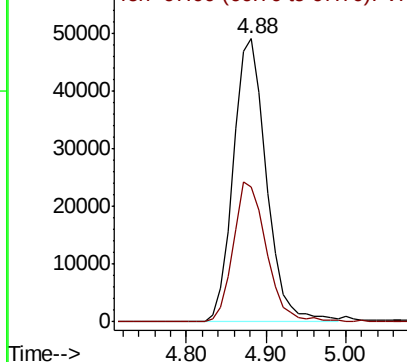
Ion Ratio Lower Upper

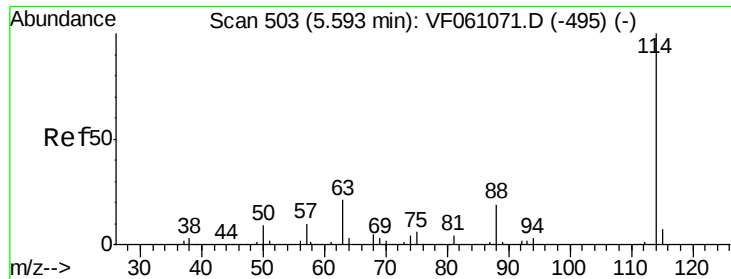
65 100

67 47.7 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

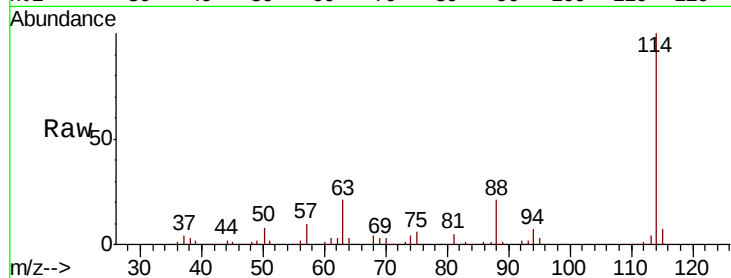




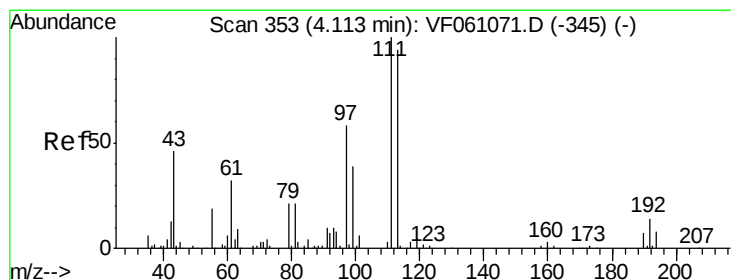
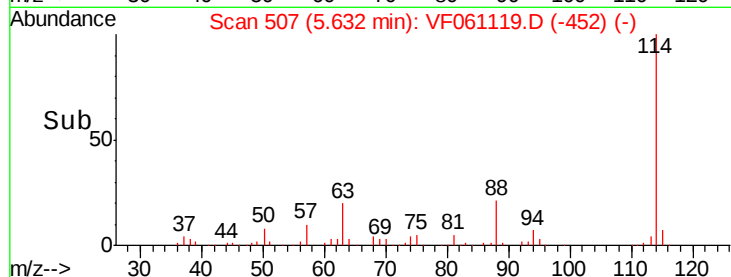
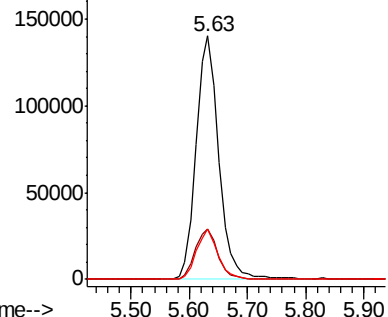
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.63 min Scan# 507
Delta R.T. 0.04 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBL01

Tot Ion:114 Resp: 377643
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.6
88 20.5 0.0 38.0

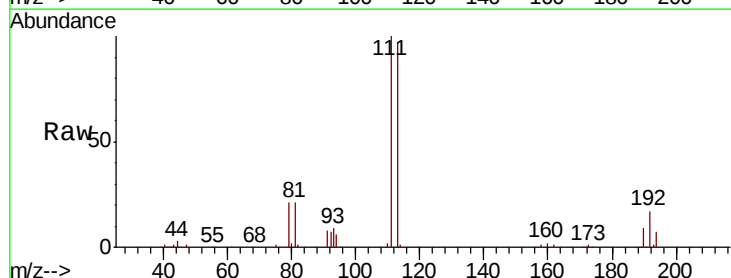


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

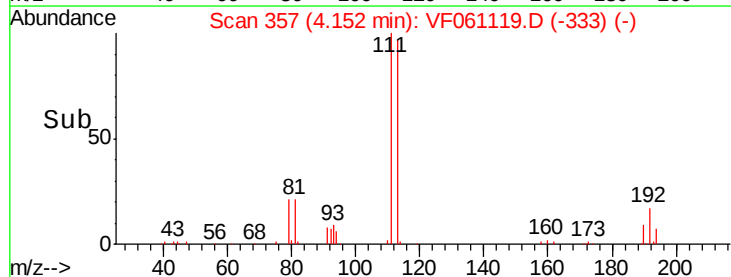
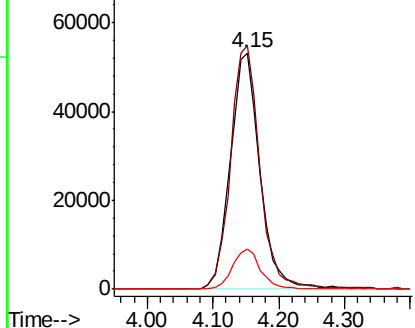


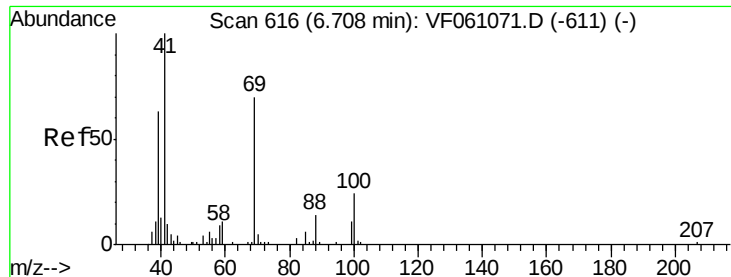
#35
Dibromofluoromethane
Concen: 55.322 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.04 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

Tgt Ion:113 Resp: 167358
Ion Ratio Lower Upper
113 100
111 103.2 85.2 127.8
192 17.2 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





#49

1,4-Dioxane

Concen: 5.292 ug/l

RT: 7.00 min Scan# 646

Delta R.T. 0.30 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBL01

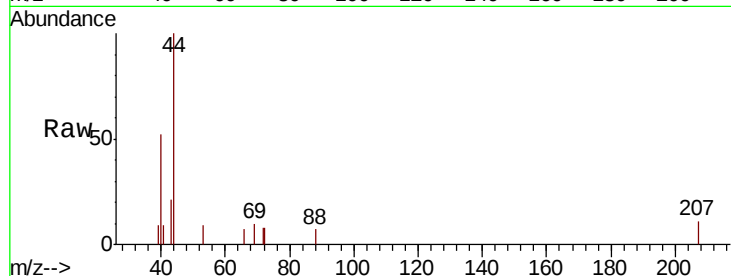
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 289.0 33.3 49.9#

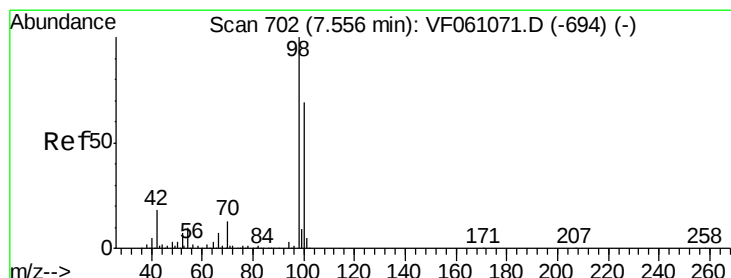
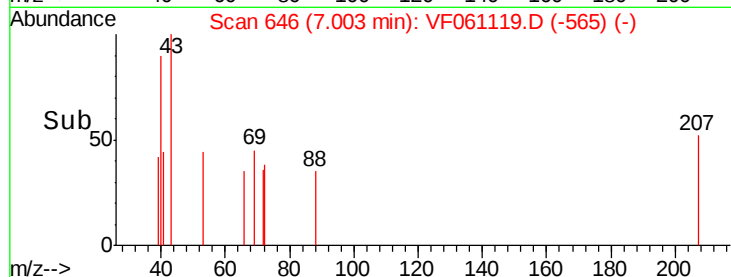
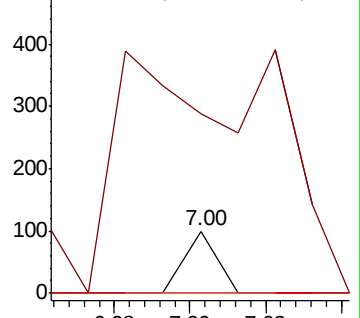
58 0.0 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 50.591 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.03 min

Lab File: VF061119.D

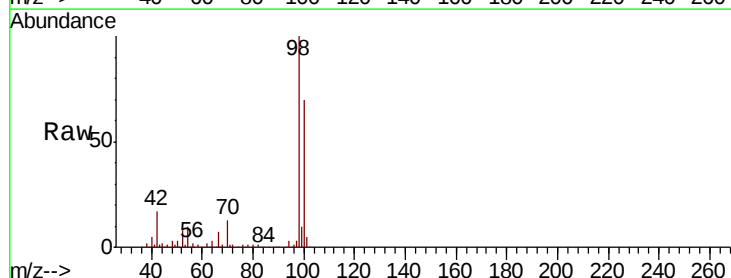
Acq: 21 Dec 2018 11:48

Tgt Ion: 98 Resp: 433713

Ion Ratio Lower Upper

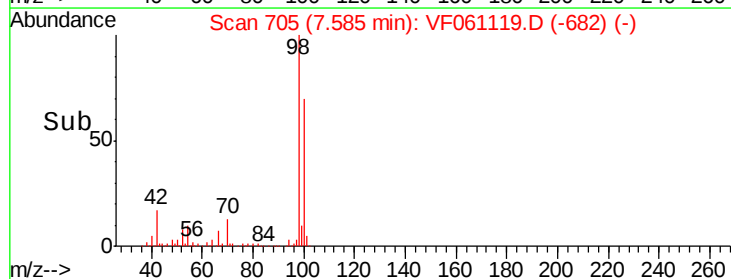
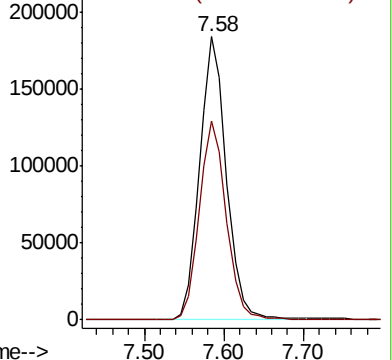
98 100

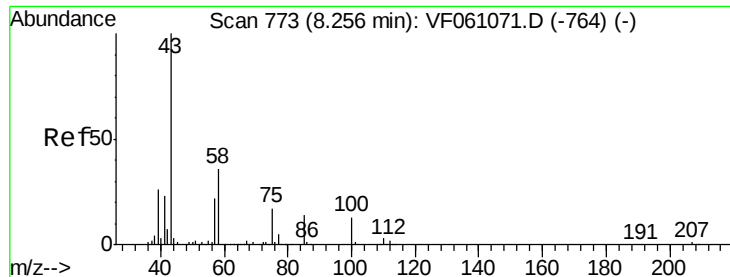
100 70.3 55.3 82.9



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: 3.004 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

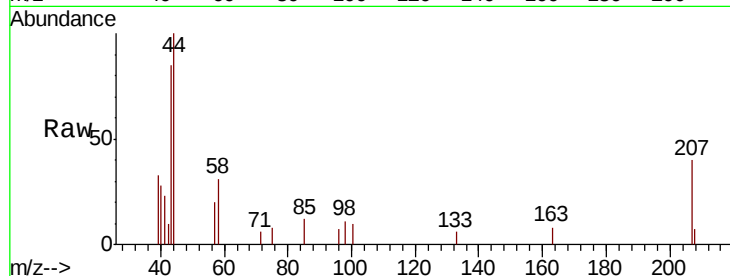
VF1221SBL01

Tot Ion: 43 Resp: 4534

Ion Ratio Lower Upper

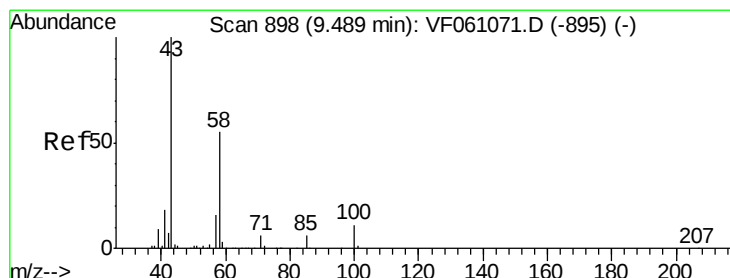
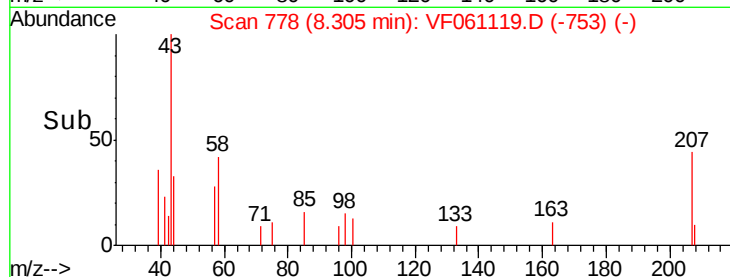
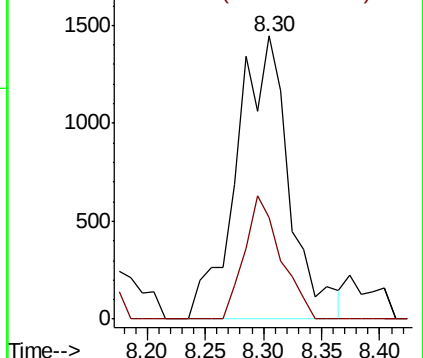
43 100

58 35.8 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: 5.009 ug/l

RT: 9.53 min Scan# 902

Delta R.T. 0.04 min

Lab File: VF061119.D

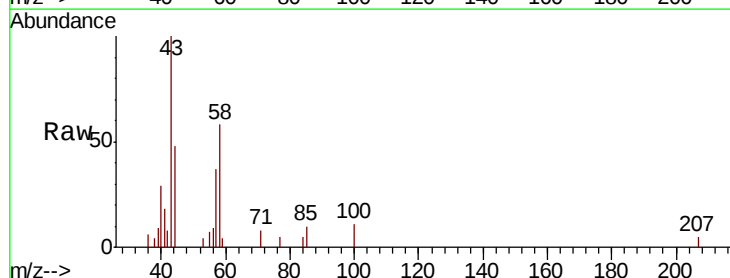
Acq: 21 Dec 2018 11:48

Tgt Ion: 43 Resp: 5468

Ion Ratio Lower Upper

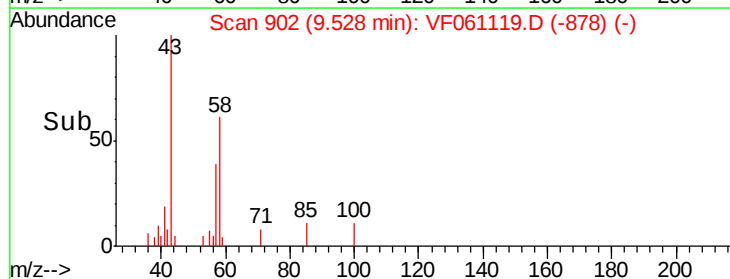
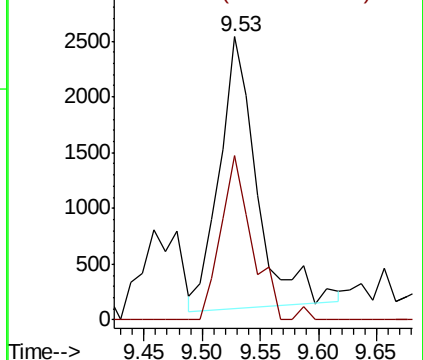
43 100

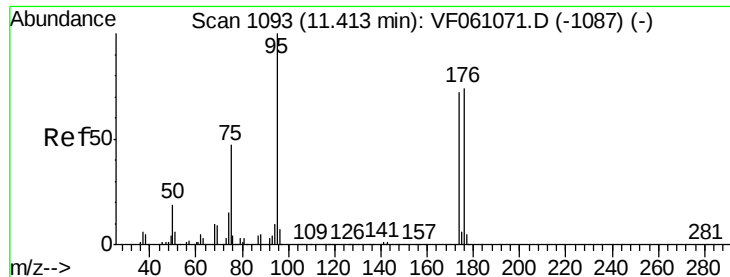
58 57.9 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 53.916 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBL01

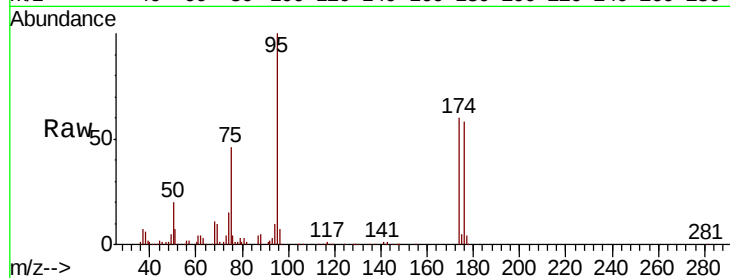
Tot Ion: 95 Resp: 213088

Ion Ratio Lower Upper

95 100

174 60.1 0.0 143.8

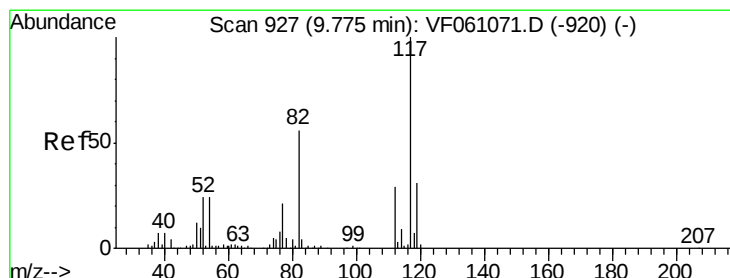
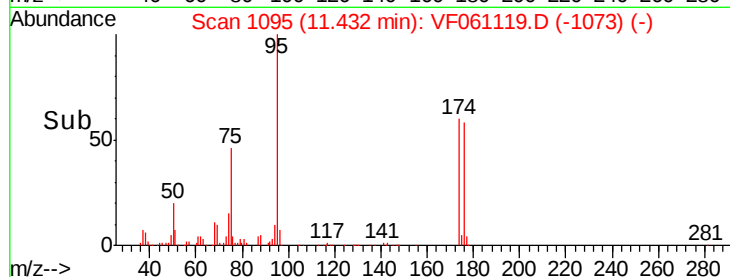
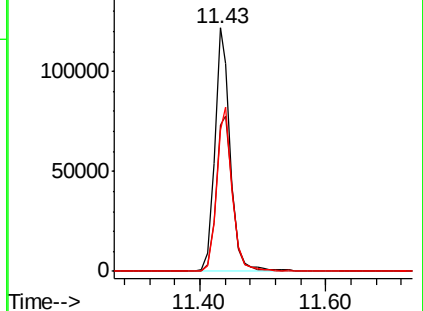
176 58.2 0.0 147.6



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: 9.80 min Scan# 930

Delta R.T. 0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

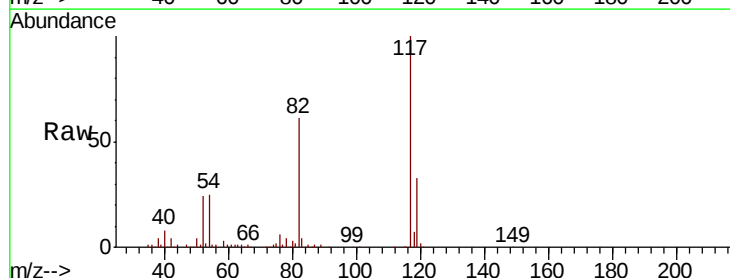
Tgt Ion: 117 Resp: 326660

Ion Ratio Lower Upper

117 100

82 60.7 45.0 67.4

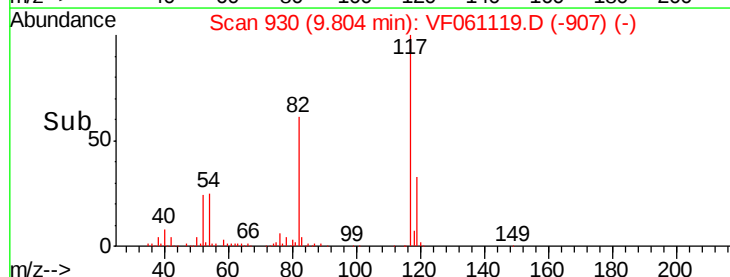
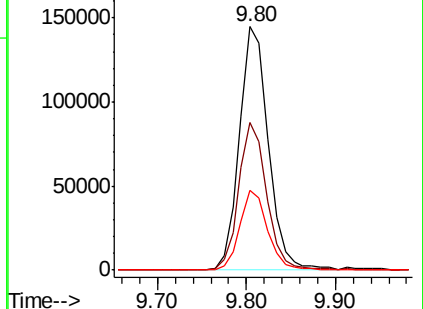
119 33.0 24.8 37.2

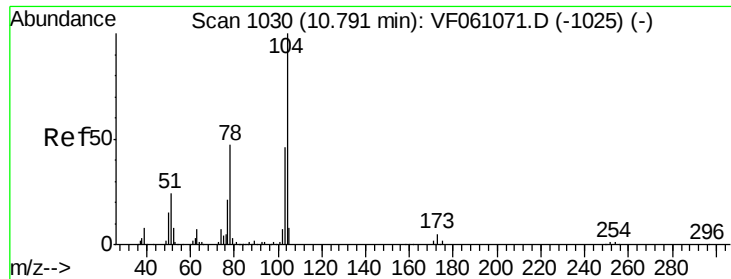


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

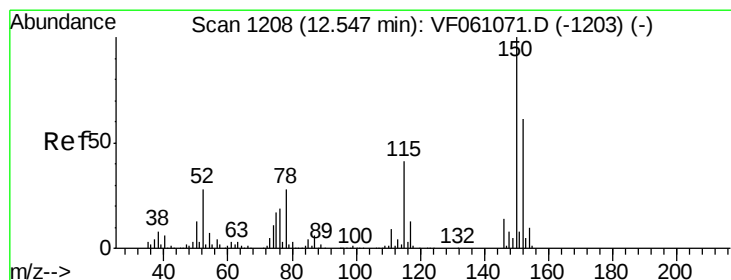
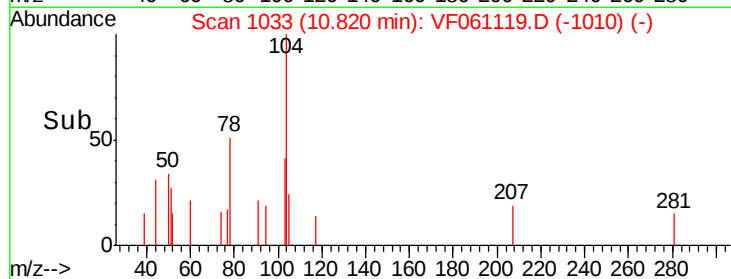
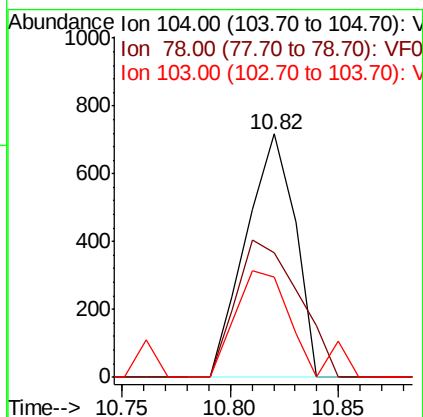
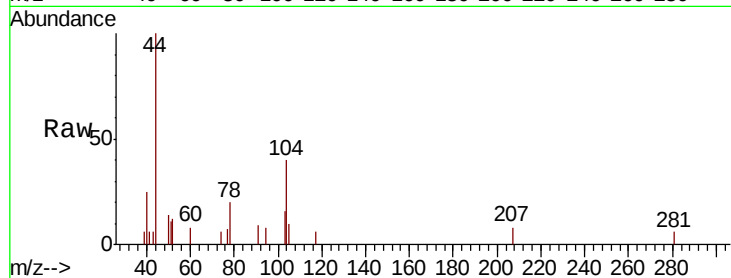




#70
Stvrene
Concen: Below Cal
RT: 10.82 min Scan# 1033
Delta R.T. 0.03 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

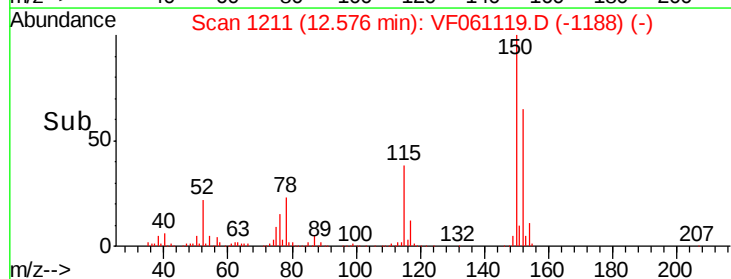
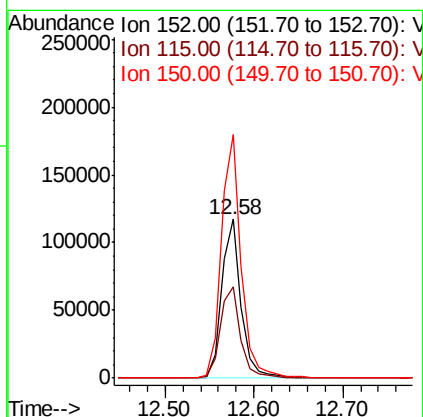
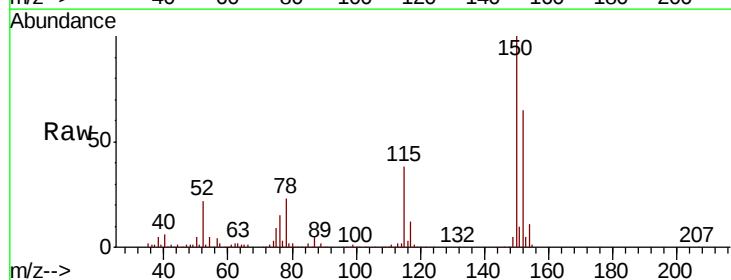
Instrument :
MSVOA_F
ClientSampleId :
VF1221SBL01

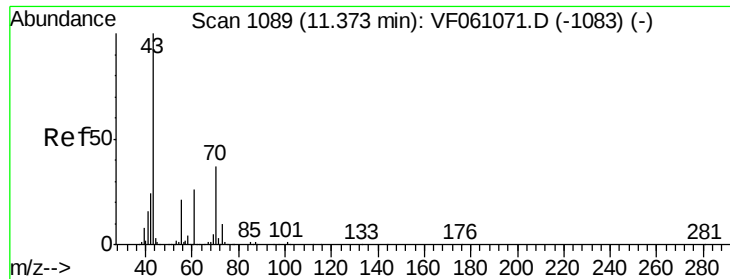
Tot Ion:104 Resp: 1130
Ion Ratio Lower Upper
104 100
78 51.3 38.4 57.6
103 40.9 37.0 55.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1211
Delta R.T. 0.03 min
Lab File: VF061119.D
Acq: 21 Dec 2018 11:48

Tgt Ion:152 Resp: 180352
Ion Ratio Lower Upper
152 100
115 57.6 33.3 99.9
150 153.1 0.0 328.2





#74

N-amvl acetate

Concen: 1.087 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBL01

Tot Ion: 43 Resp: 3750

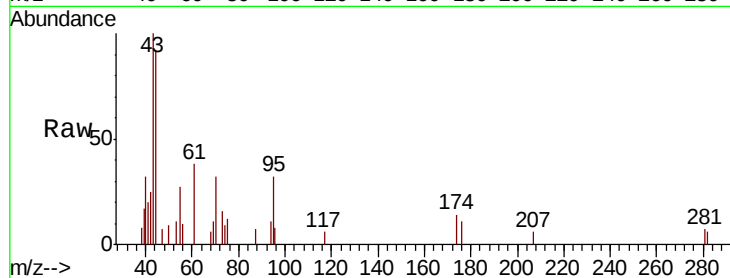
Ion Ratio Lower Upper

43 100

70 32.2 29.2 43.8

55 26.7 16.5 24.7#

61 37.6 20.7 31.1#

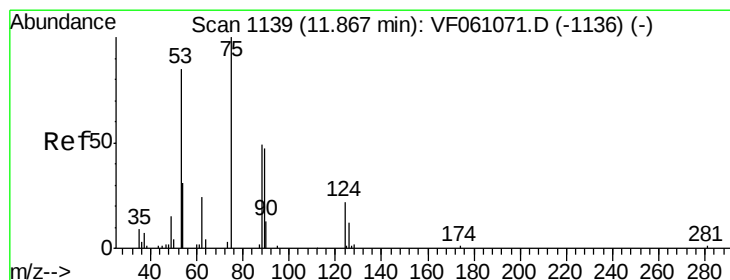
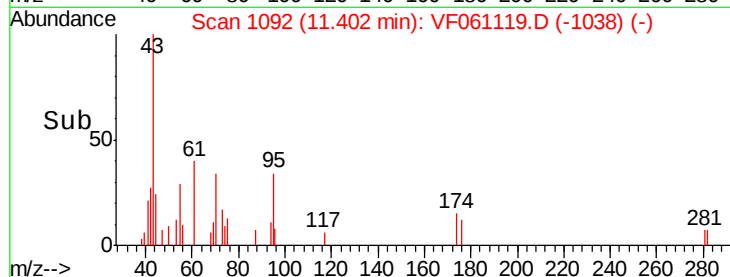
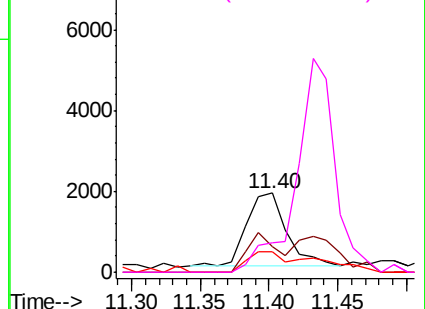


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.023 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. -0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

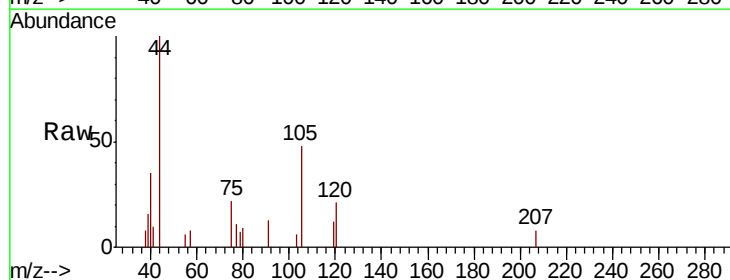
Tgt Ion: 75 Resp: 844

Ion Ratio Lower Upper

75 100

53 0.0 74.1 111.1#

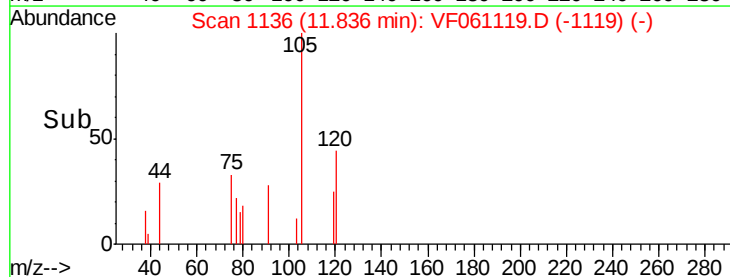
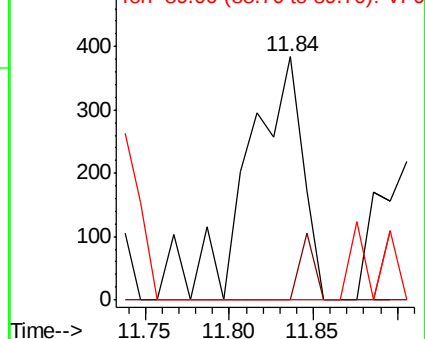
89 0.0 42.6 64.0#

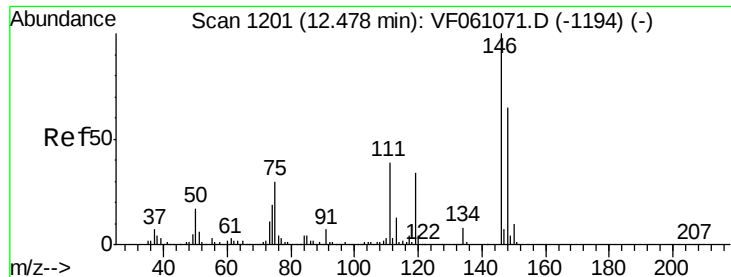


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.50 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBL01

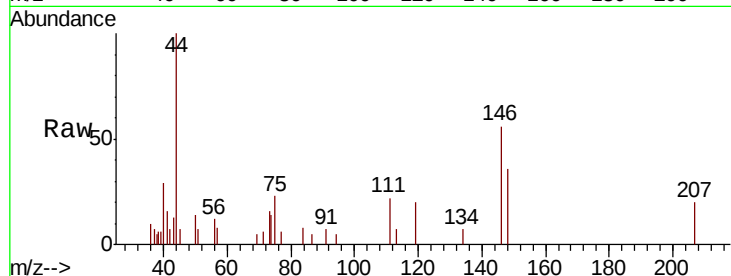
Tot Ion:146 Resp: 1663

Ion Ratio Lower Upper

146 100

111 39.6 19.3 57.9

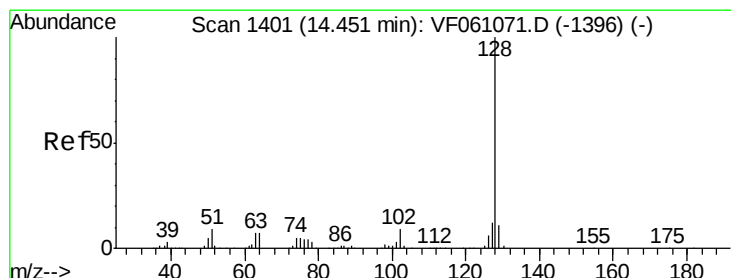
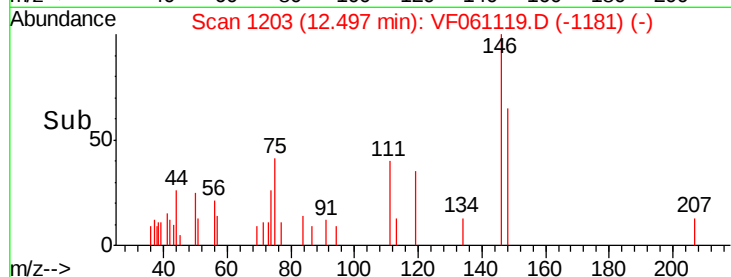
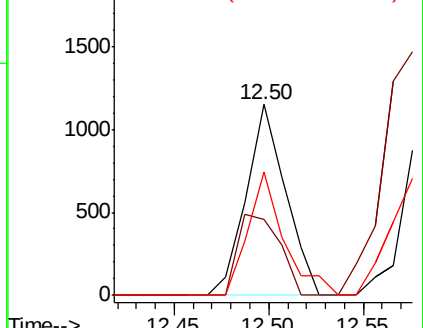
148 64.8 32.4 97.2



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



#95

Naphthalene

Concen: 1.257 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.03 min

Lab File: VF061119.D

Acq: 21 Dec 2018 11:48

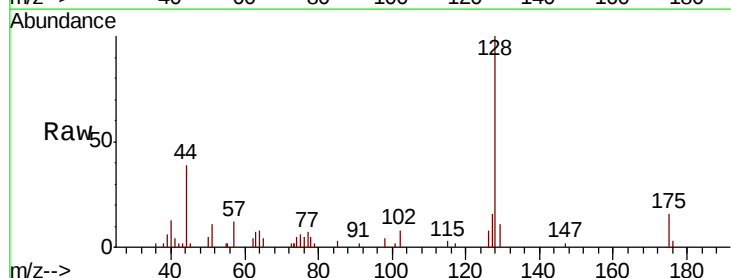
Tgt Ion:128 Resp: 9733

Ion Ratio Lower Upper

128 100

127 15.7 9.4 14.2#

129 10.9 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

