

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122818\
 Data File : VF061229.D
 Acq On : 28 Dec 2018 11:58
 Operator : VA/AP
 Sample : J6498-05RE
 Misc : 5.11g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSSI-1218-S-AB-6RE

Quant Time: Dec 29 00:53:55 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	198337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	354142	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	245259	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	77117	50.00	ug/l	0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	112298	44.02	ug/l	0.02
Spiked Amount	50.000		Recovery	=	88.04%	
35) Dibromofluoromethane	4.13	113	134245	47.32	ug/l	0.02
Spiked Amount	50.000		Recovery	=	94.64%	
50) Toluene-d8	7.56	98	314163	39.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.16%	
62) 4-Bromofluorobenzene	11.42	95	95558	25.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.56%	

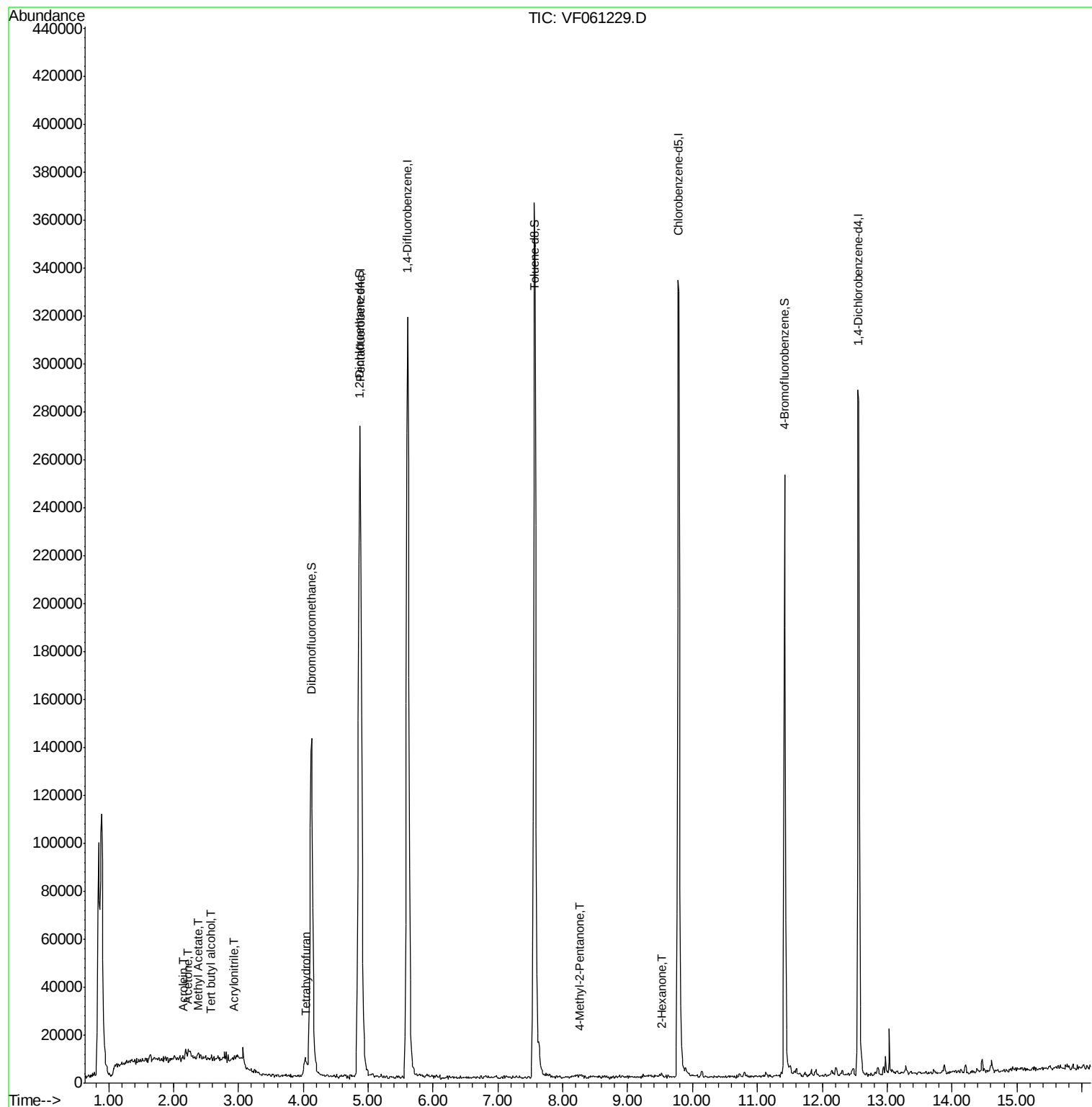
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	839	8.150	ug/l #	70
13) Acrolein	2.14	56	346	4.651	ug/l	96
15) Acrylonitrile	2.94	53	549	2.306	ug/l #	46
16) Acetone	2.23	43	2734	5.361	ug/l #	70
18) Methyl Acetate	2.36	43	1119	1.061	ug/l	93
20) Methylene Chloride	2.26	84	1583	Below Cal	#	73
29) Tetrahydrofuran	4.05	42	544	1.616	ug/l #	37
51) 4-Methyl-2-Pentanone	8.26	43	1540	1.088	ug/l	95
59) 2-Hexanone	9.51	43	2110	2.061	ug/l	81
70) Styrene	10.81	104	706	Below Cal	#	75
87) 1,3-Dichlorobenzene	12.48	146	692	Below Cal		81

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

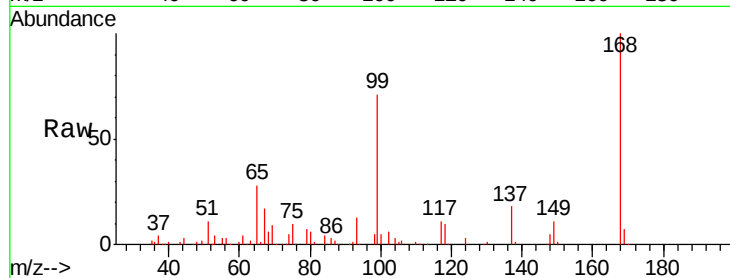
SSSI-1218-S-AB-6RE

Tgt Ion:168 Resp: 198337

Ion Ratio Lower Upper

168 100

99 70.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

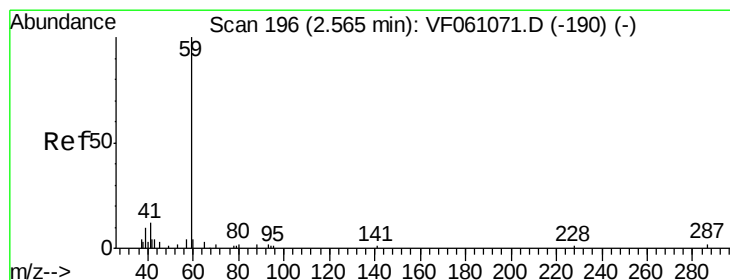
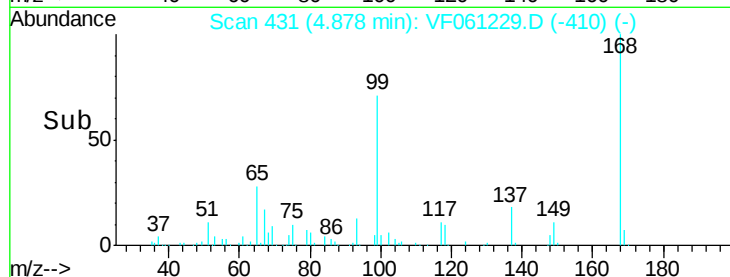
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 8.150 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF061229.D

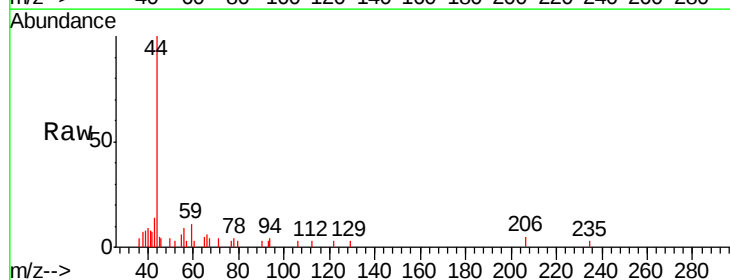
Acq: 28 Dec 2018 11:58

Tgt Ion: 59 Resp: 839

Ion Ratio Lower Upper

59 100

57 26.8 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

500

400

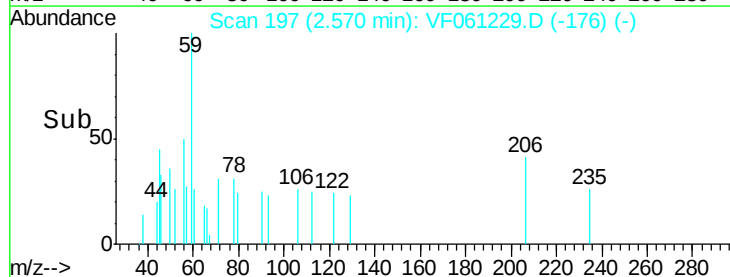
300

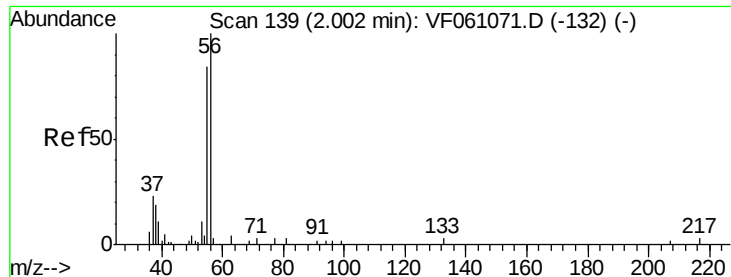
200

100

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 4.651 ug/l

RT: 2.14 min Scan# 153

Delta R.T. 0.13 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

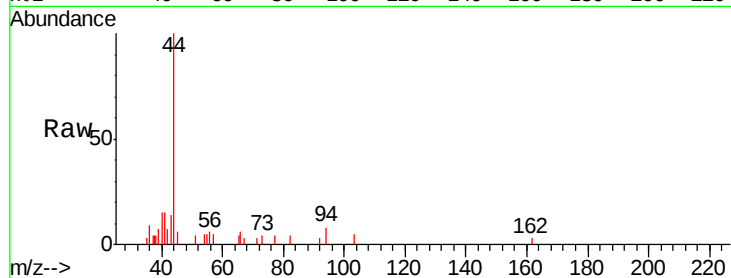
SSSI-1218-S-AB-6RE

Tgt Ion: 56 Resp: 346

Ion Ratio Lower Upper

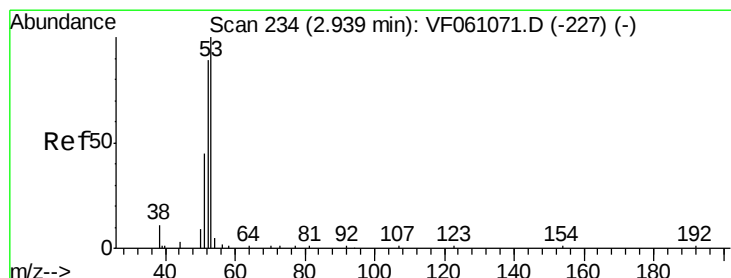
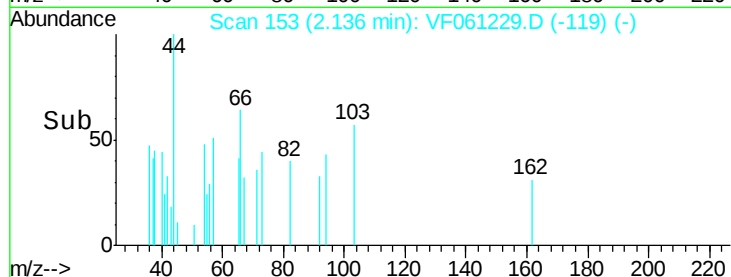
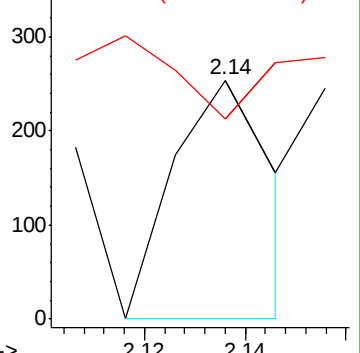
56 100

55 83.9 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 2.306 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

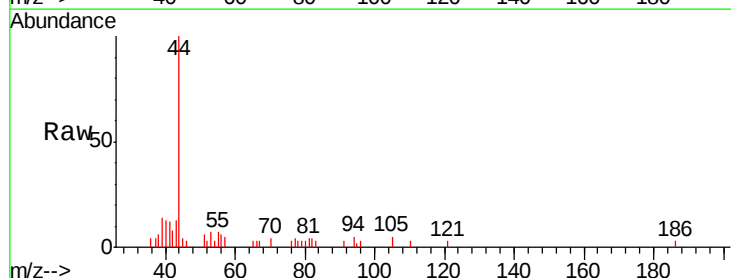
Tgt Ion: 53 Resp: 549

Ion Ratio Lower Upper

53 100

52 43.9 71.3 106.9#

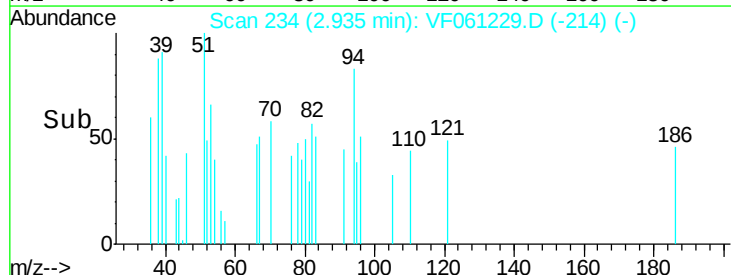
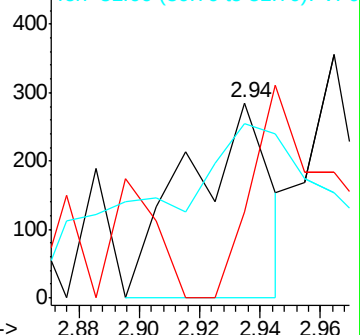
51 89.5 36.8 55.2#

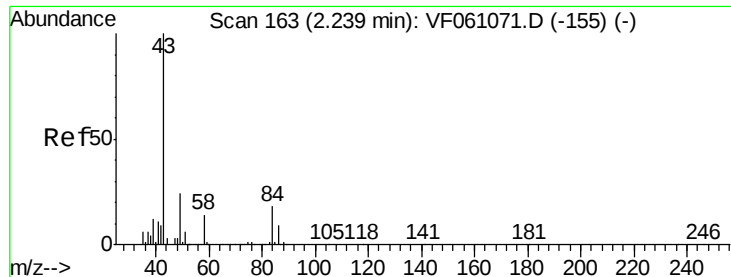


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 5.361 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

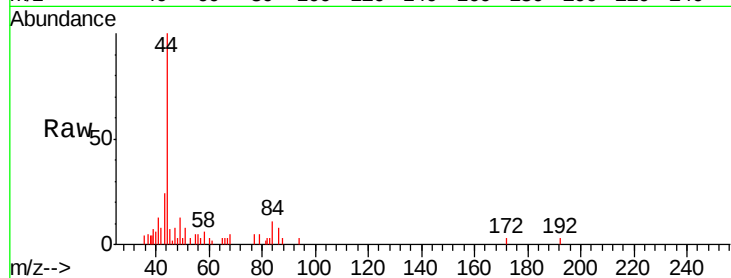
SSSI-1218-S-AB-6RE

Tgt Ion: 43 Resp: 2734

Ion Ratio Lower Upper

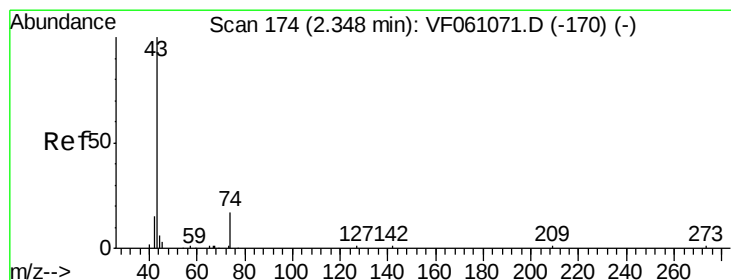
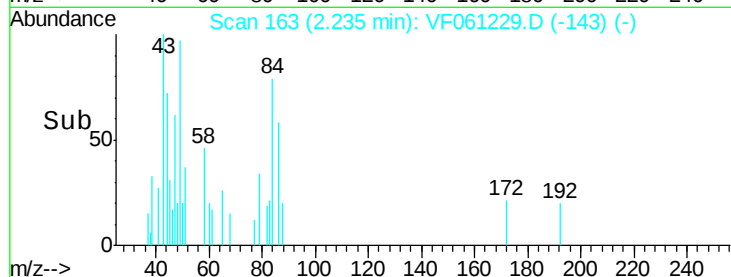
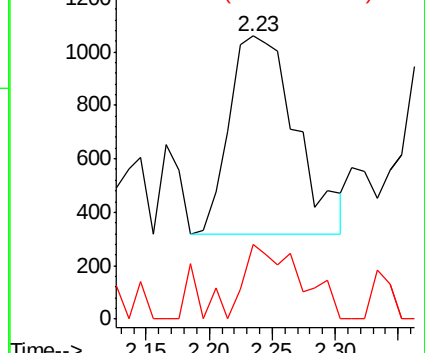
43 100

58 26.3 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 1.061 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.02 min

Lab File: VF061229.D

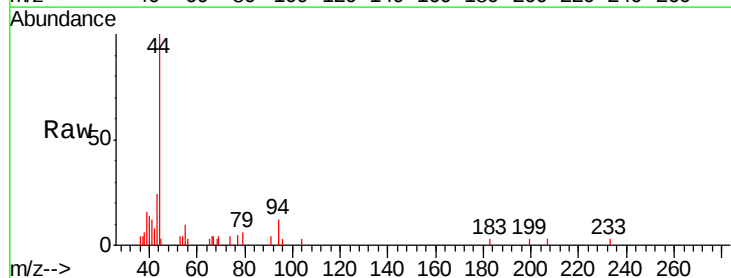
Acq: 28 Dec 2018 11:58

Tgt Ion: 43 Resp: 1119

Ion Ratio Lower Upper

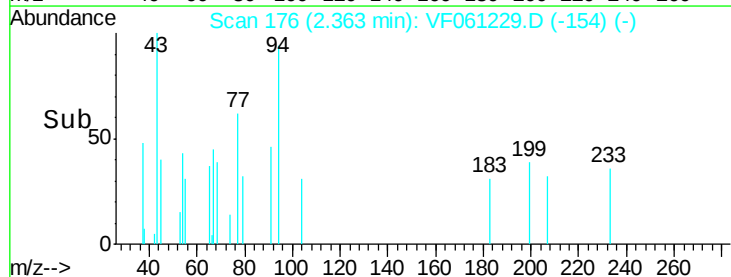
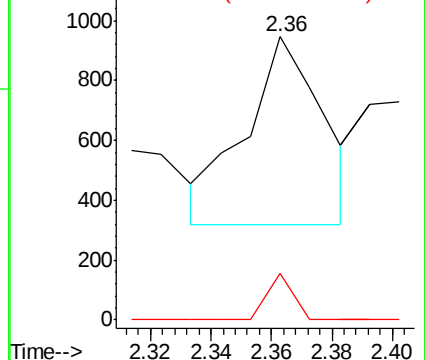
43 100

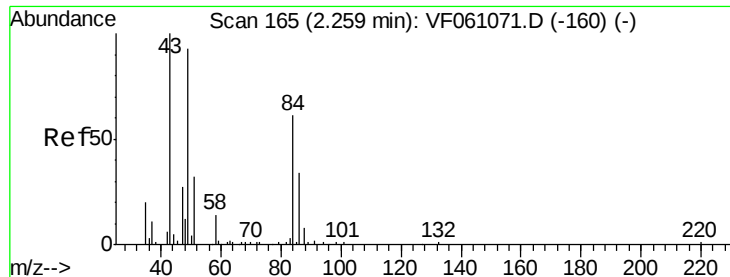
74 16.5 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

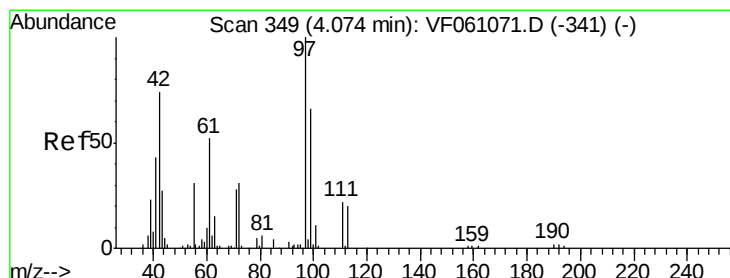
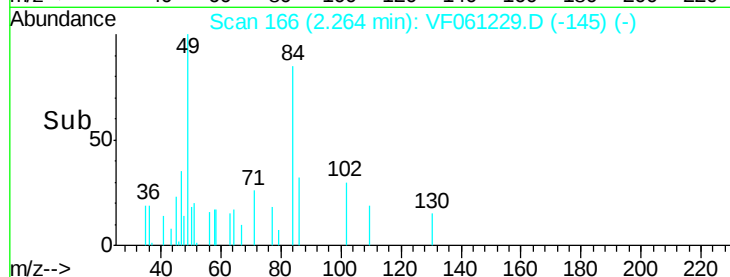
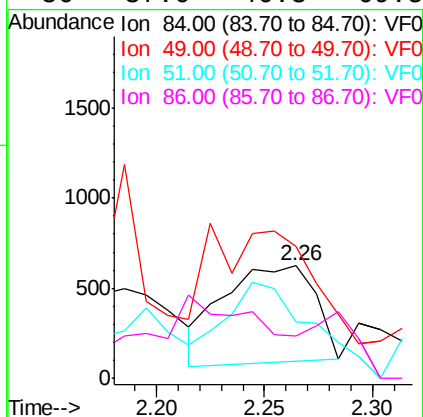
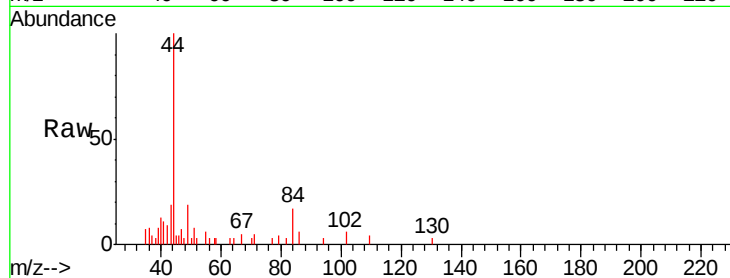




#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061229.D
Acq: 28 Dec 2018 11:58

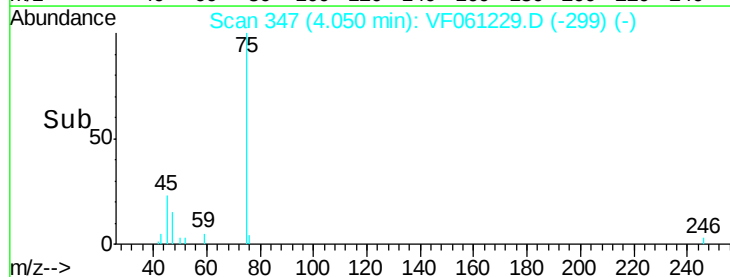
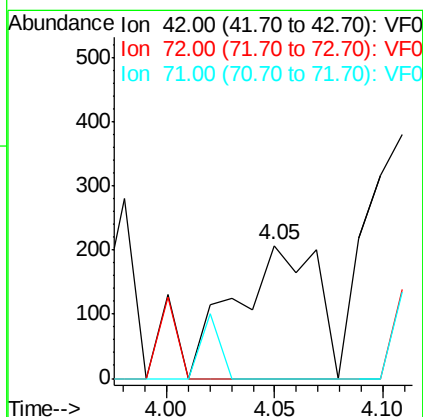
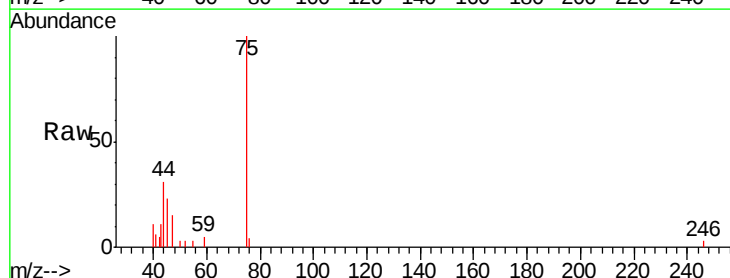
Instrument :
MSVOA_F
ClientSampleId :
SSSI-1218-S-AB-6RE

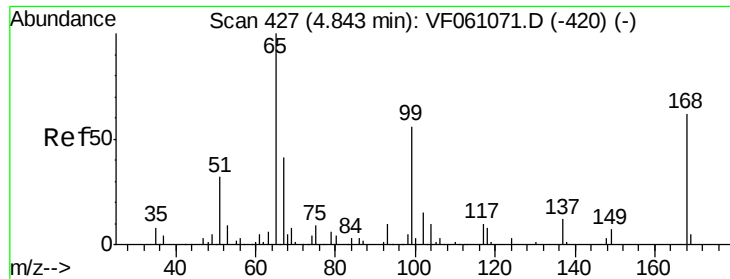
Tgt Ion: 84 Resp: 1583
Ion Ratio Lower Upper
84 100
49 117.0 129.4 194.2#
51 50.6 44.0 66.0
86 37.0 46.3 69.5#



#29
Tetrahydrofuran
Concen: 1.616 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.02 min
Lab File: VF061229.D
Acq: 28 Dec 2018 11:58

Tgt Ion: 42 Resp: 544
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: 44.022 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

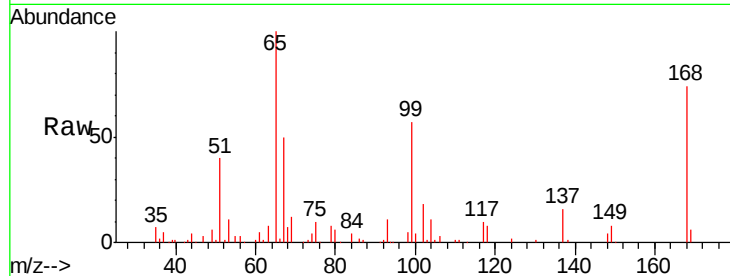
SSSI-1218-S-AB-6RE

Tgt Ion: 65 Resp: 112298

Ion Ratio Lower Upper

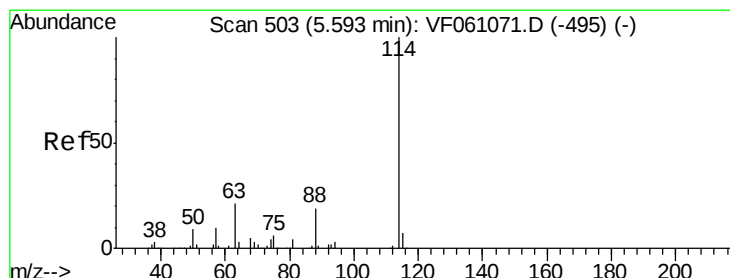
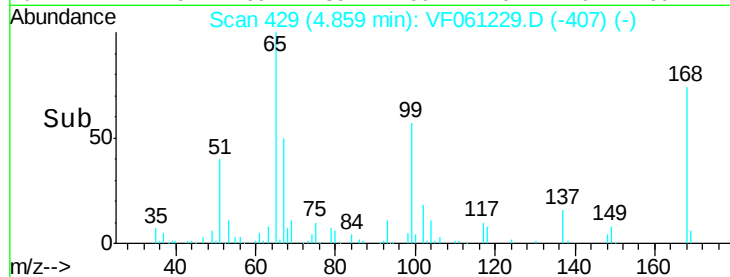
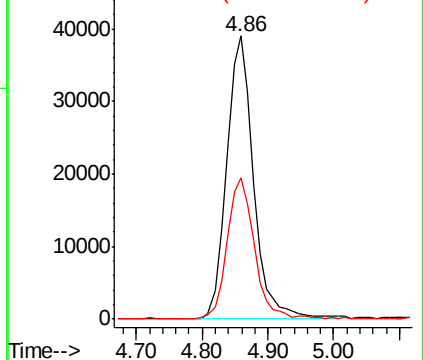
65 100

67 50.0 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: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

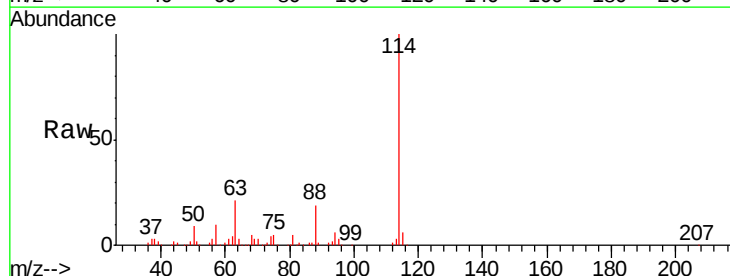
Tgt Ion: 114 Resp: 354142

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

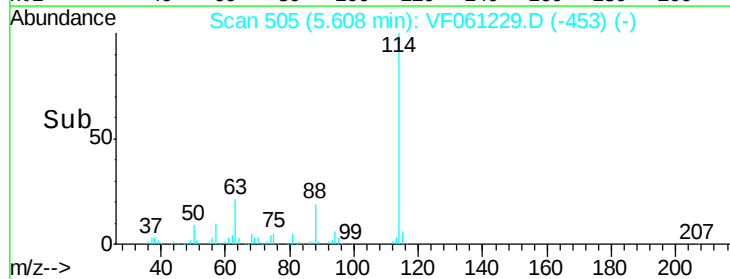
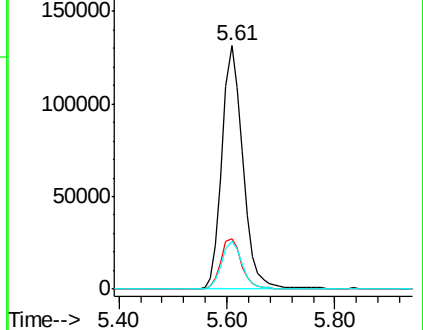
88 19.4 0.0 38.0

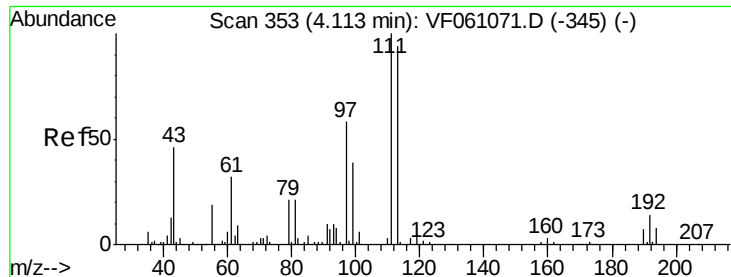


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

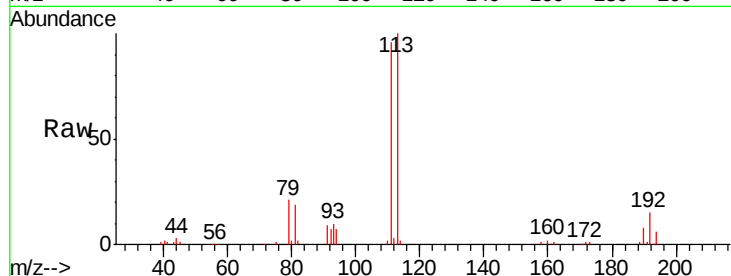




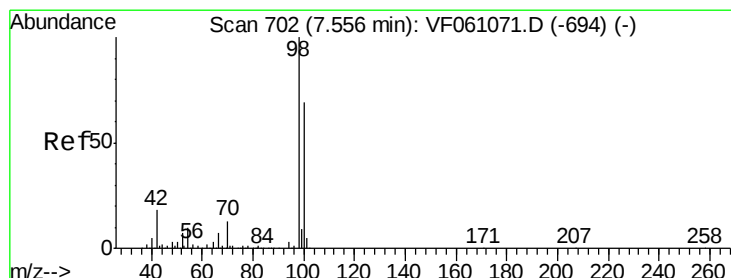
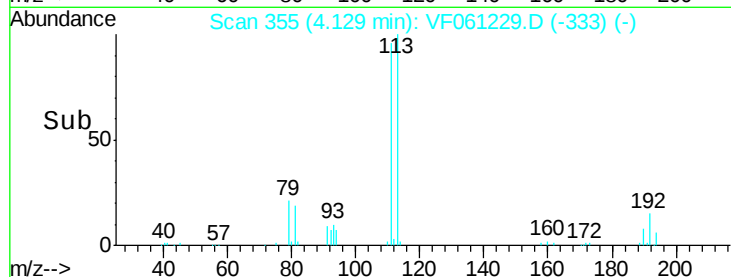
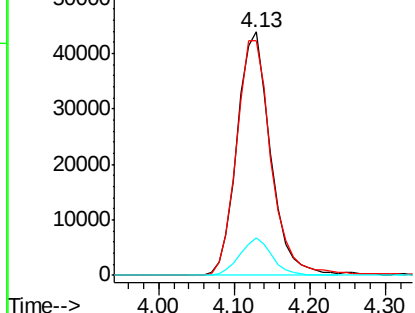
#35
 Dibromofluoromethane
 Concen: 47.321 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.02 min
 Lab File: VF061229.D
 Acq: 28 Dec 2018 11:58

Instrument :
 MSVOA_F
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 SSSI-1218-S-AB-6RE

Tgt Ion	Ratio	Lower	Upper
113	100		
111	96.5	85.2	127.8
192	15.5	12.8	19.2

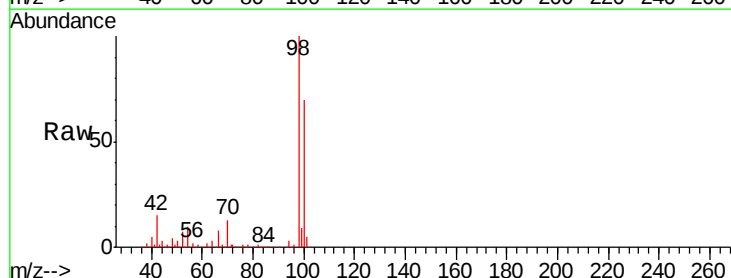


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

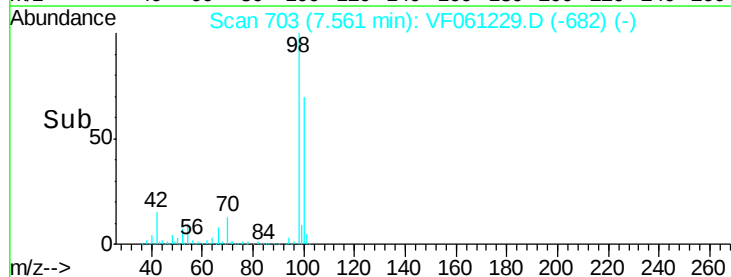
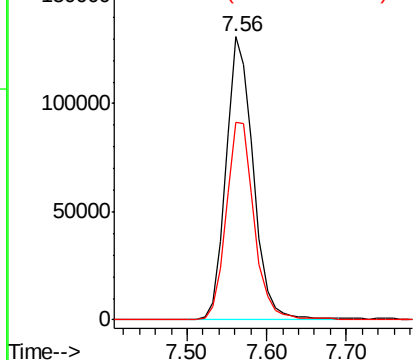


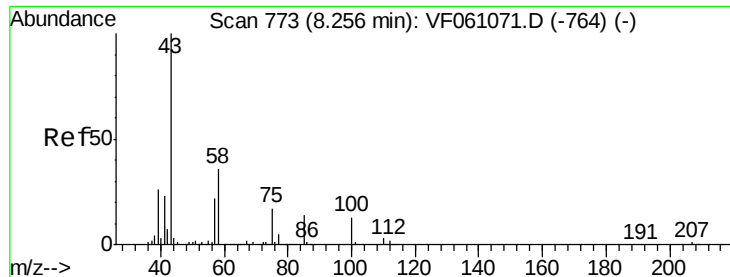
#50
 Toluene-d8
 Concen: 39.078 ug/l
 RT: 7.56 min Scan# 703
 Delta R.T. 0.01 min
 Lab File: VF061229.D
 Acq: 28 Dec 2018 11:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.8	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: 1.088 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

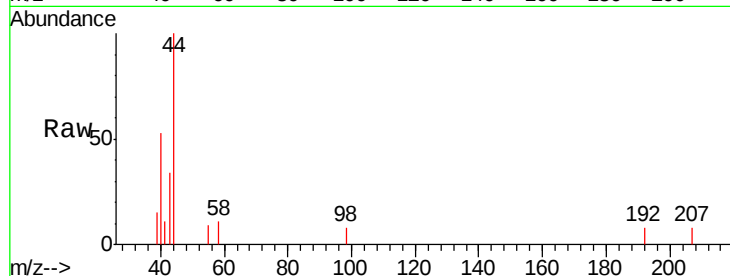
SSSI-1218-S-AB-6RE

Tgt Ion: 43 Resp: 1540

Ion Ratio Lower Upper

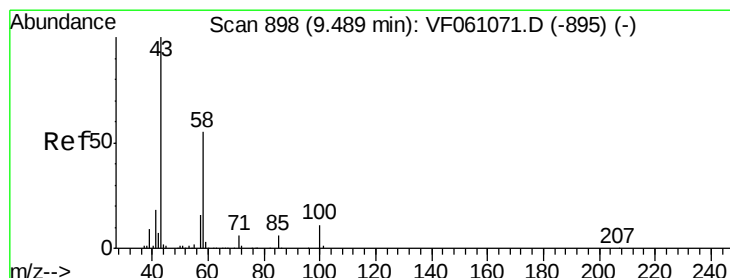
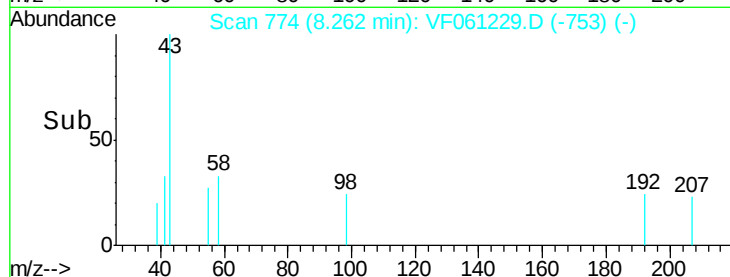
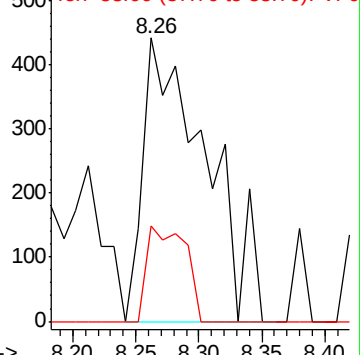
43 100

58 33.5 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: 2.061 ug/l

RT: 9.51 min Scan# 901

Delta R.T. 0.03 min

Lab File: VF061229.D

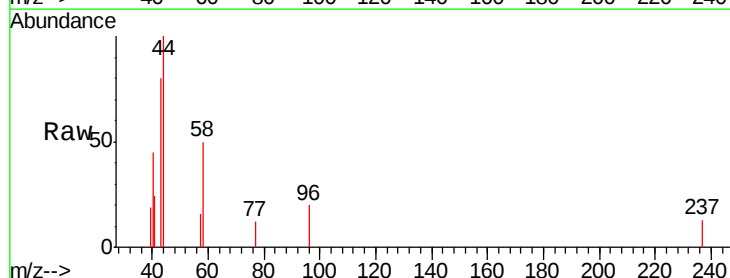
Acq: 28 Dec 2018 11:58

Tgt Ion: 43 Resp: 2110

Ion Ratio Lower Upper

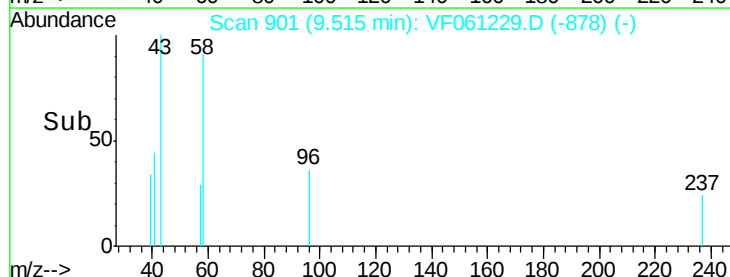
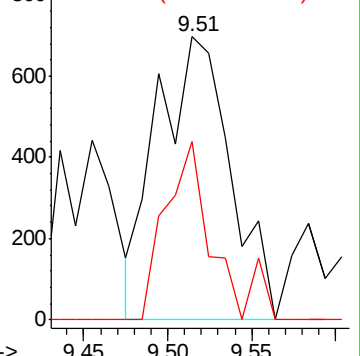
43 100

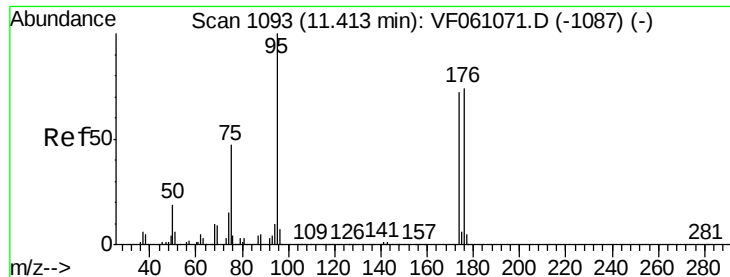
58 63.0 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 25.783 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

SSSI-1218-S-AB-6RE

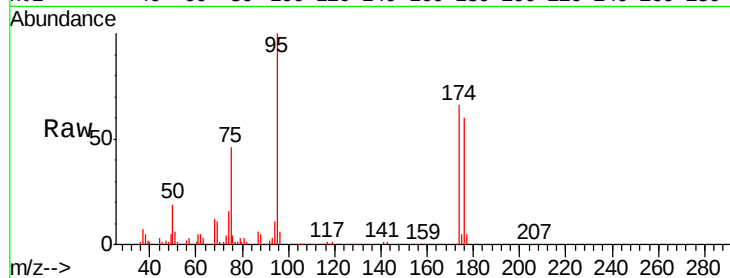
Tgt Ion: 95 Resp: 95558

Ion Ratio Lower Upper

95 100

174 66.3 0.0 143.8

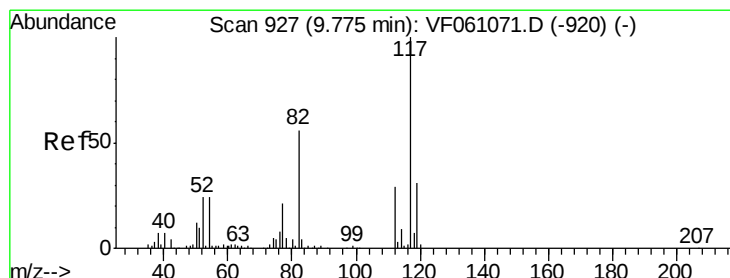
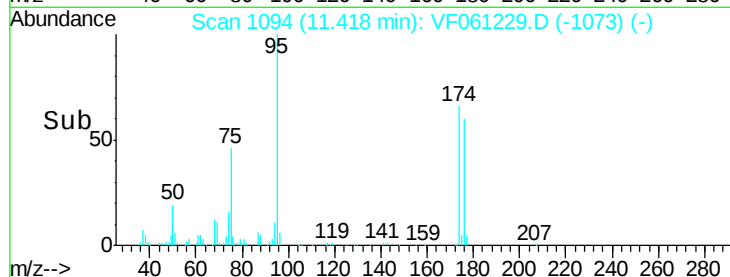
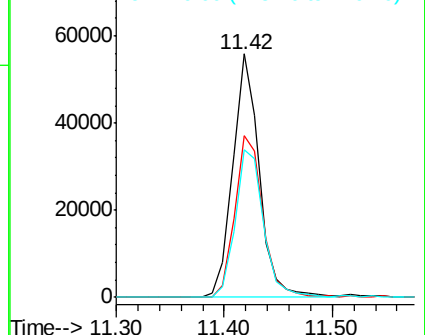
176 60.4 0.0 147.6



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: 9.79 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

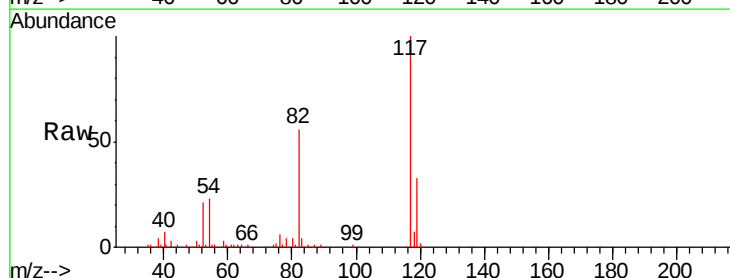
Tgt Ion: 117 Resp: 245259

Ion Ratio Lower Upper

117 100

82 55.7 45.0 67.4

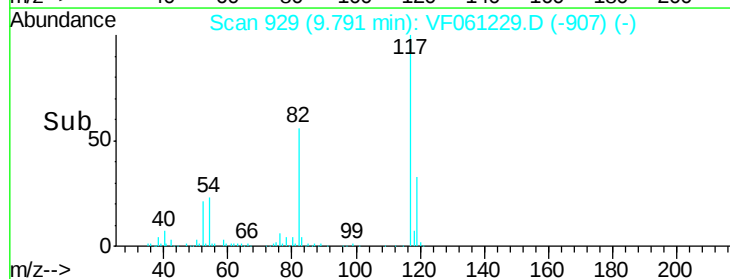
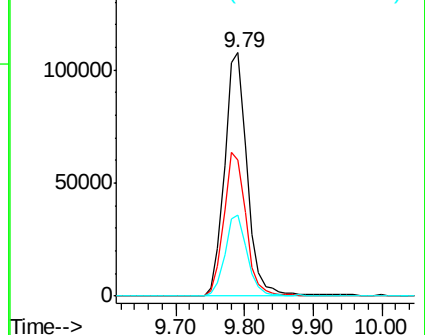
119 33.2 24.8 37.2

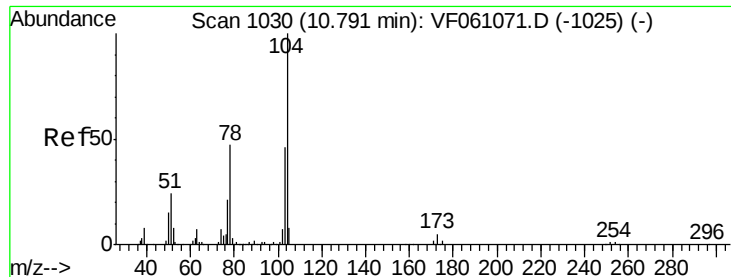


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Styrene

Concen: Below Cal

RT: 10.81 min Scan# 1032

Delta R.T. 0.02 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

Instrument :

MSVOA_F

ClientSampleId :

SSSI-1218-S-AB-6RE

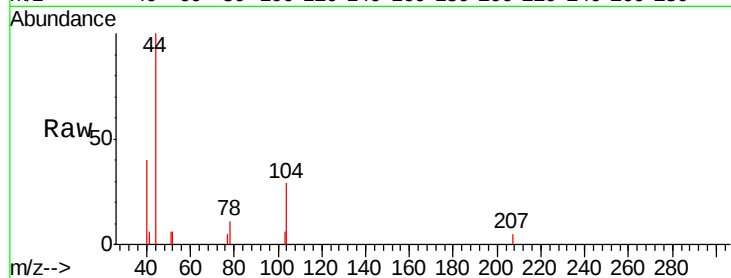
Tgt Ion:104 Resp: 706

Ion Ratio Lower Upper

104 100

78 39.3 38.4 57.6

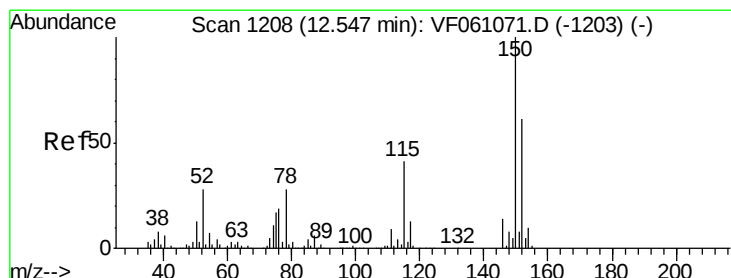
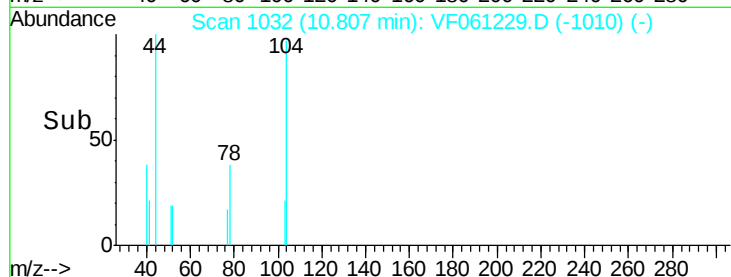
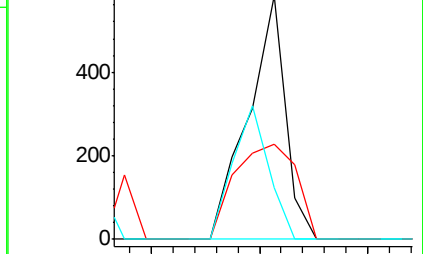
103 21.5 37.0 55.6#



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: 12.56 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061229.D

Acq: 28 Dec 2018 11:58

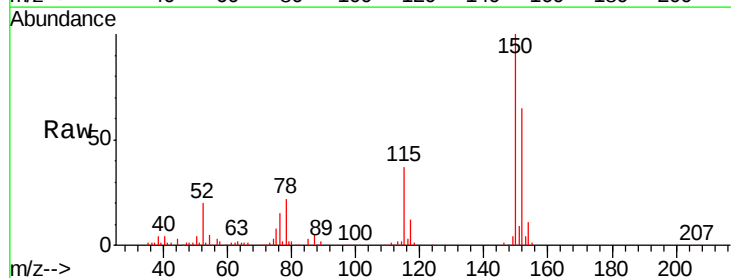
Tgt Ion:152 Resp: 77117

Ion Ratio Lower Upper

152 100

115 56.1 33.3 99.9

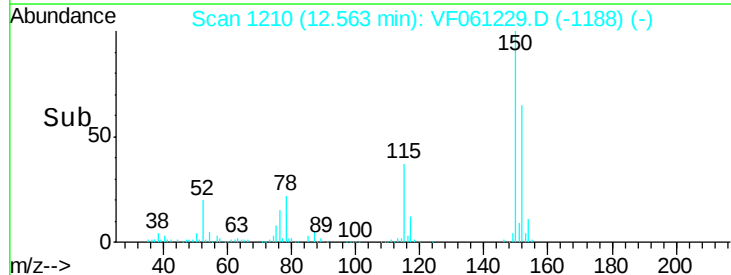
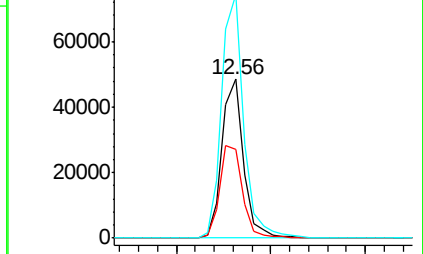
150 153.6 0.0 328.2

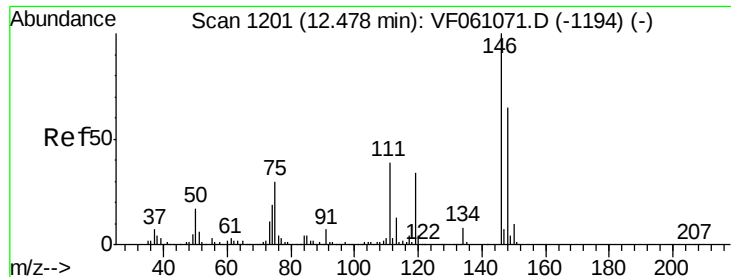


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

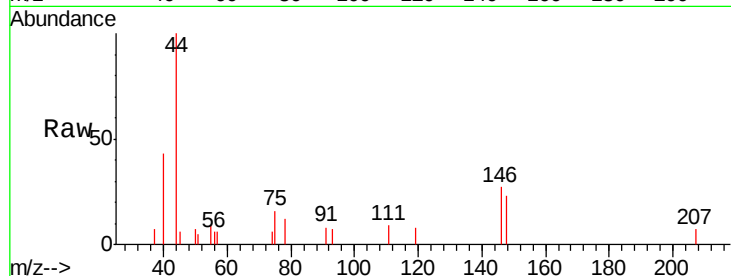




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061229.D
 Acq: 28 Dec 2018 11:58

Instrument :
 MSVOA_F
 ClientSampleId :
 SSSI-1218-S-AB-6RE

Tgt Ion: 146 Resp: 692
 Ion Ratio Lower Upper
 146 100
 111 34.5 19.3 57.9
 148 85.5 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

