

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111918\
 Data File : VF060800.D
 Acq On : 20 Nov 2018 2:42
 Operator : VA/AP
 Sample : J5950-02RE
 Misc : 6.20g/5mL/MSVOA-F/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-04

Quant Time: Nov 20 03:51:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	194328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	337802	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	275255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	144992	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	109948	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	4.13	113	135299	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
50) Toluene-d8	7.57	98	320510	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.42	95	153706	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	

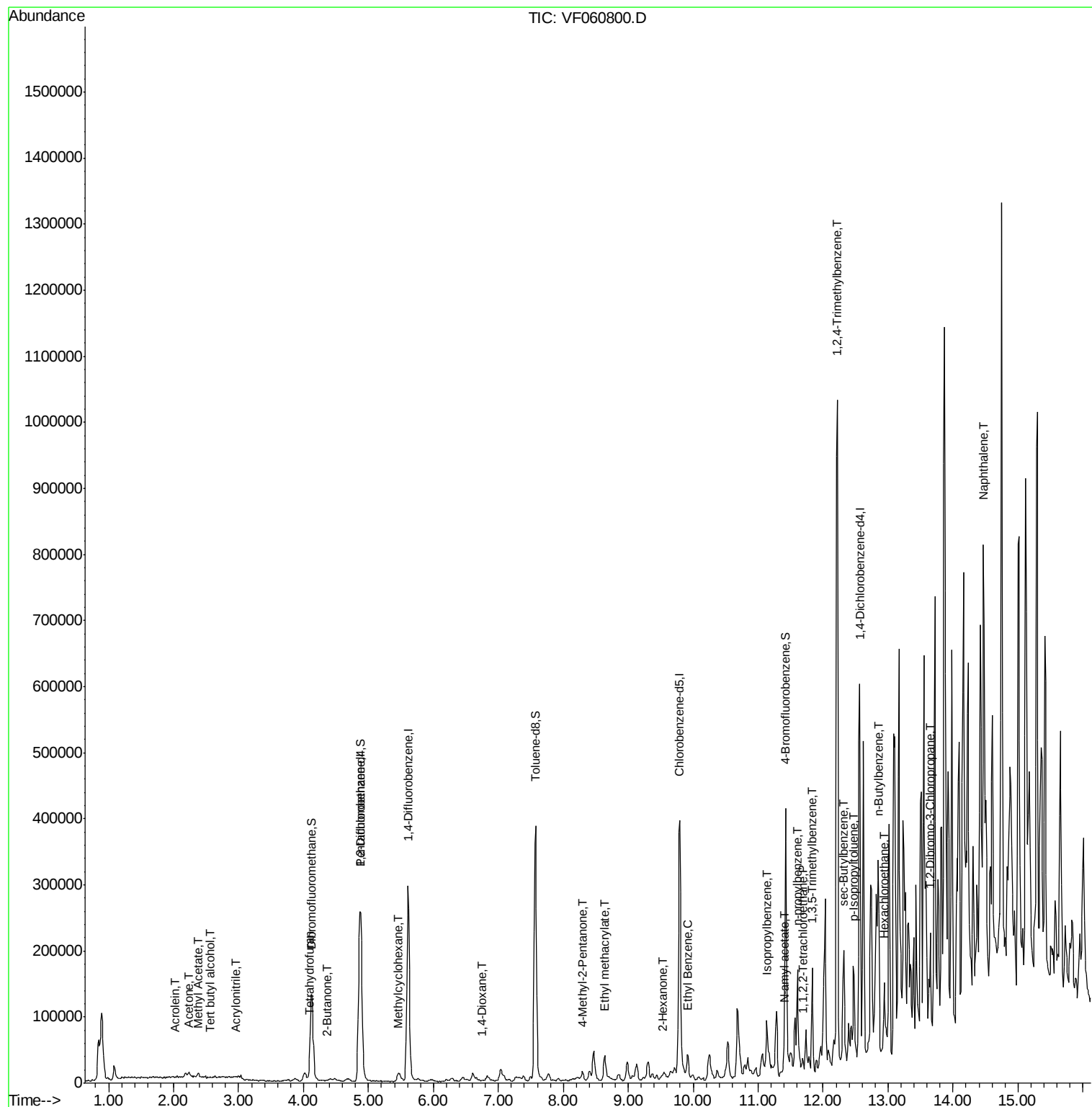
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	254	2.518	ug/l #	1
13) Acrolein	2.02	56	188	2.038	ug/l	93
15) Acrylonitrile	2.97	53	1216	5.657	ug/l #	62
16) Acetone	2.24	43	5660	11.947	ug/l #	89
18) Methyl Acetate	2.38	43	3067	3.942	ug/l #	64
20) Methylene Chloride	2.19	84	3145	Below Cal	#	73
25) 2-Butanone	4.36	43	3500	4.491	ug/l #	56
29) Tetrahydrofuran	4.08	42	1624	5.052	ug/l #	63
39) Methylcyclohexane	5.46	83	8813	1.939	ug/l	93
41) Methacrylonitrile	4.76	41	126	Below Cal	#	26
49) 1,4-Dioxane	6.74	88	73	6.107	ug/l #	5
51) 4-Methyl-2-Pentanone	8.29	43	9428	6.750	ug/l #	61
56) Ethyl methacrylate	8.64	69	21671	11.412	ug/l #	72
59) 2-Hexanone	9.52	43	4831	4.922	ug/l	95
67) Ethyl Benzene	9.92	91	32145	3.070	ug/l	99
73) Isopropylbenzene	11.13	105	30024	2.573	ug/l	99
74) N-amyl acetate	11.39	43	3663	1.379	ug/l #	4
75) 1,1,2,2-Tetrachloroethane	11.69	83	3635	1.884	ug/l #	41
78) n-propylbenzene	11.61	91	101818	7.480	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	69564	7.508	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	486304	50.748	ug/l	96
85) sec-Butylbenzene	12.32	105	90180	6.757	ug/l	89
86) p-Isopropyltoluene	12.47	119	56180	5.040	ug/l	95
89) n-Butylbenzene	12.85	91	118427	10.411	ug/l #	84
90) Hexachloroethane	12.94	117	4452	1.633	ug/l #	21
92) 1,2-Dibromo-3-Chloropropan	13.65	75	905	2.495	ug/l #	7
95) Naphthalene	14.47	128	254480	42.627	ug/l #	90

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 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: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

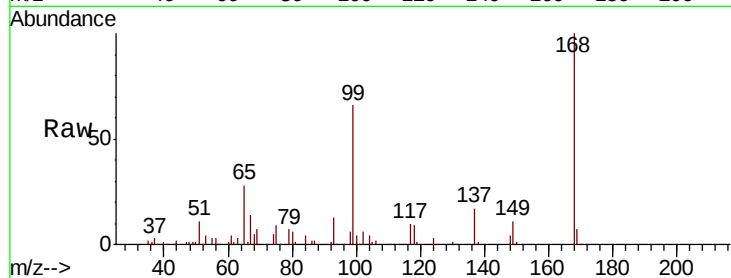
SSI-04

Tot Ion:168 Resp: 194328

Ion Ratio Lower Upper

168 100

99 66.4 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

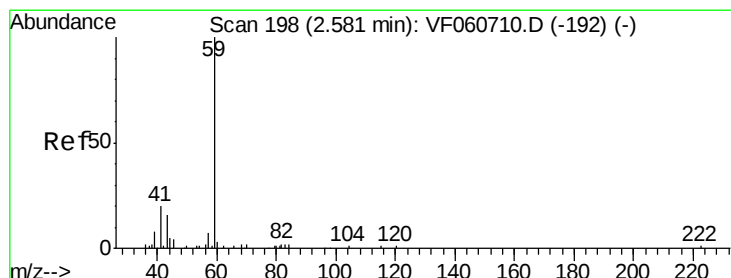
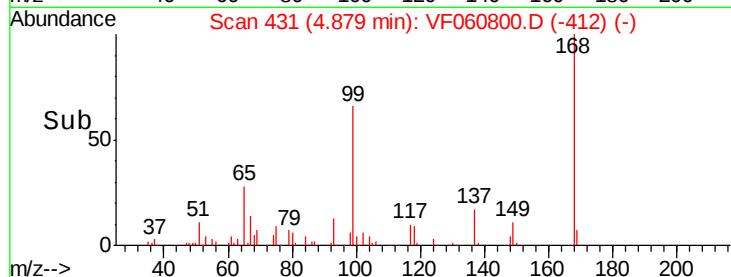
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 2.518 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060800.D

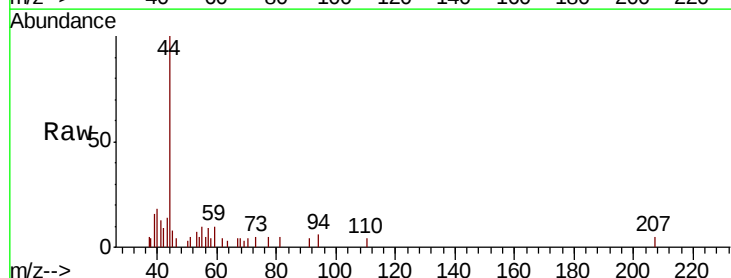
Acq: 20 Nov 2018 2:42

Tgt Ion: 59 Resp: 254

Ion Ratio Lower Upper

59 100

57 98.7 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

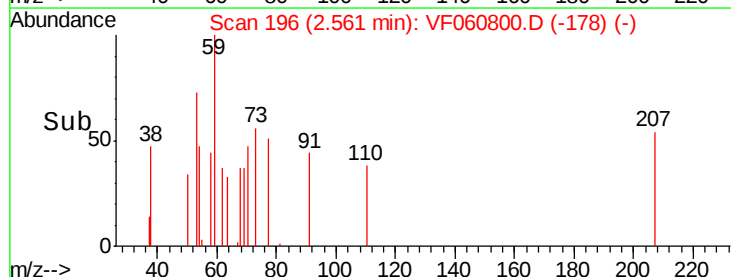
300

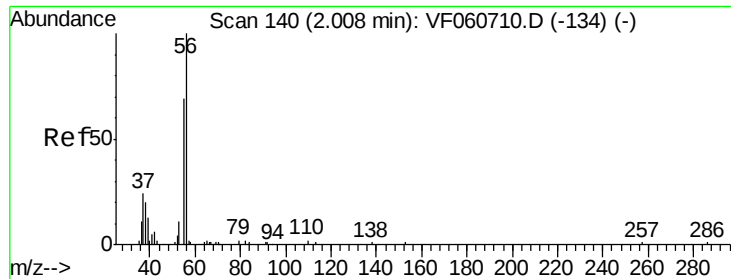
200

100

0

Time--> 2.52 2.54 2.56 2.58 2.60

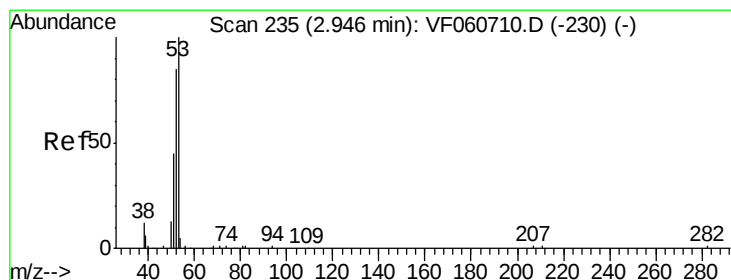
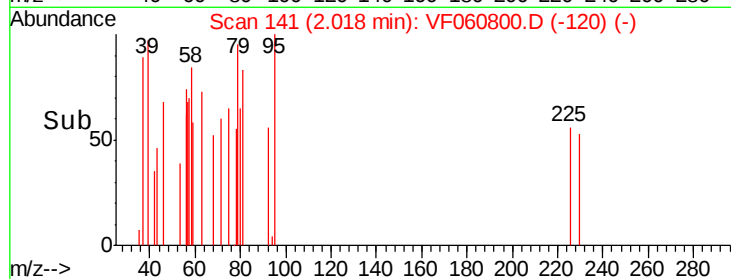
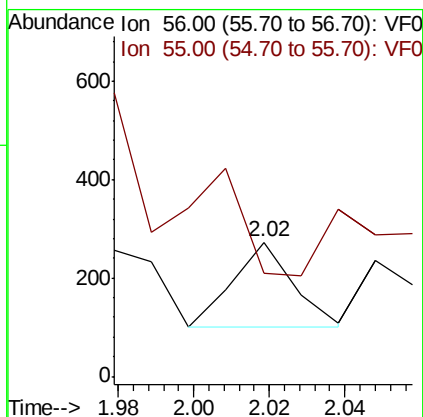
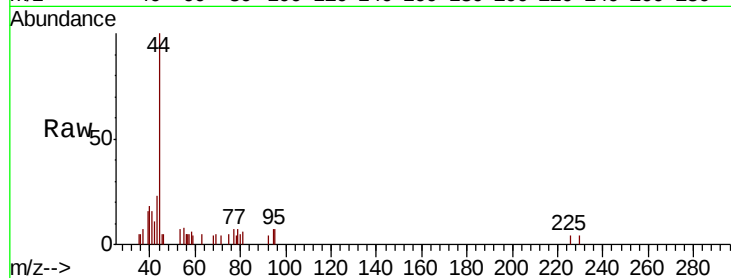




#13
Acrolein
Concen: 2.038 ug/l
RT: 2.02 min Scan# 141
Delta R.T. 0.01 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

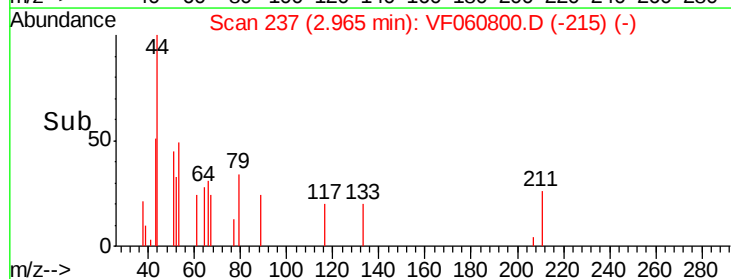
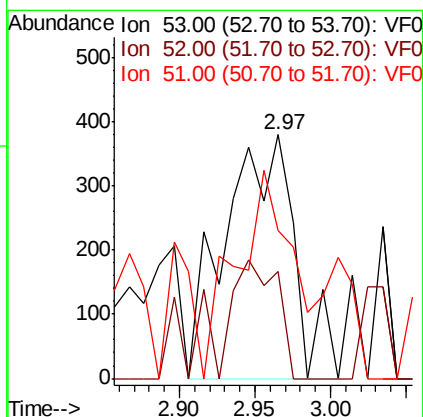
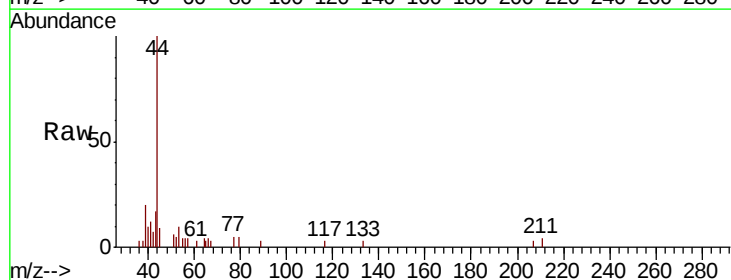
Instrument :
MSVOA_F
ClientSampled :
SSI-04

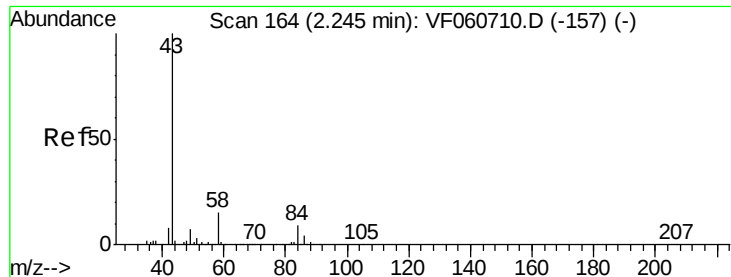
Tot Ion: 56 Resp: 188
Ion Ratio Lower Upper
56 100
55 76.9 56.6 85.0



#15
Acrylonitrile
Concen: 5.657 ug/l
RT: 2.97 min Scan# 237
Delta R.T. 0.02 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

Tgt Ion: 53 Resp: 1216
Ion Ratio Lower Upper
53 100
52 43.9 68.8 103.2#
51 60.8 36.7 55.1#





#16

Acetone

Concen: 11.947 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

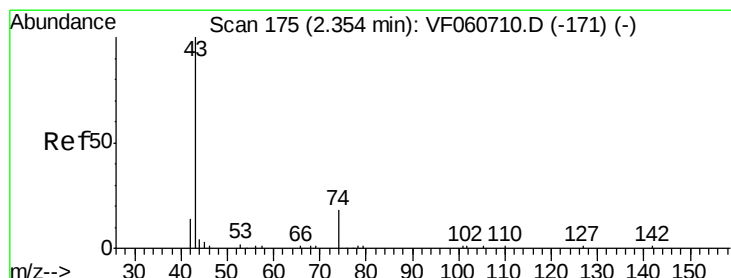
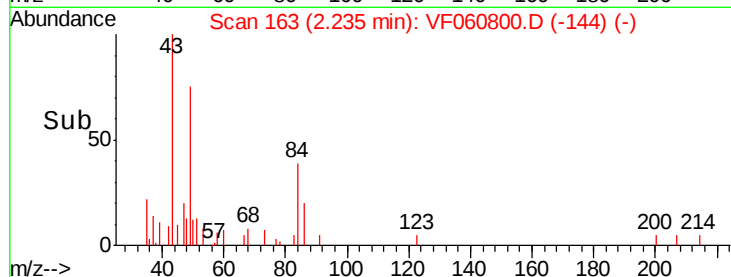
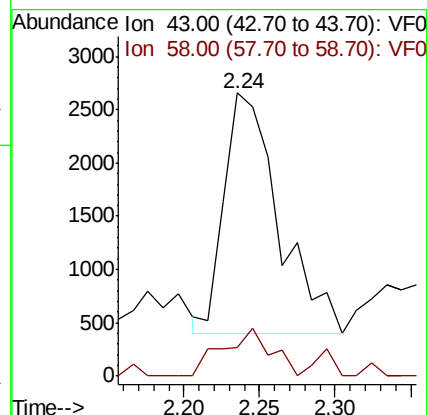
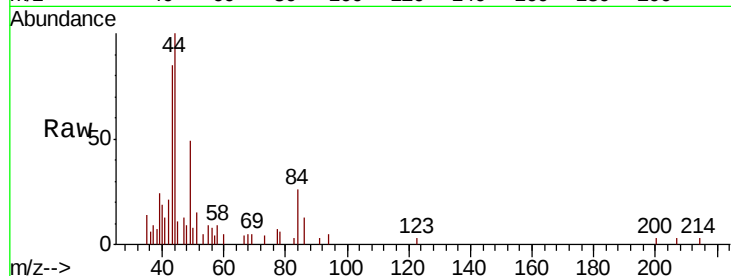
SSI-04

Tot Ion: 43 Resp: 5660

Ion Ratio Lower Upper

43 100

58 10.2 11.6 17.4#



#18

Methyl Acetate

Concen: 3.942 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF060800.D

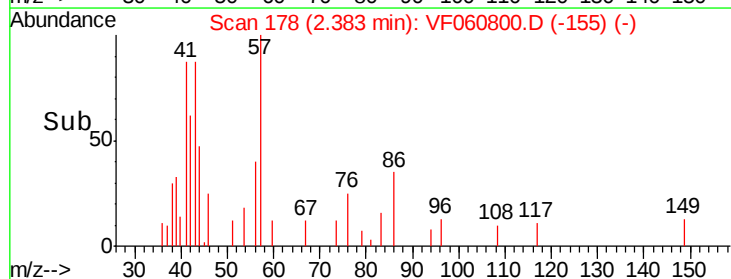
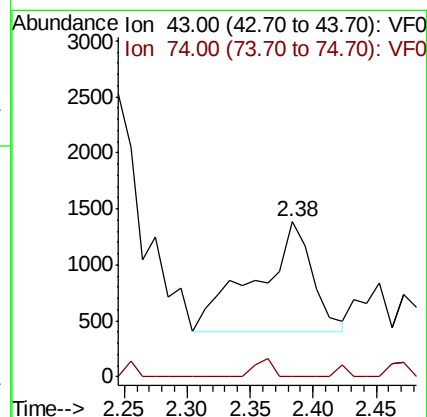
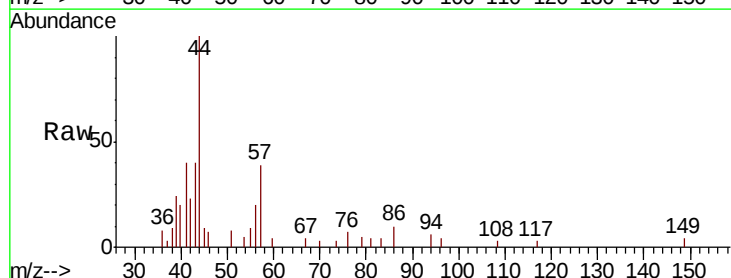
Acq: 20 Nov 2018 2:42

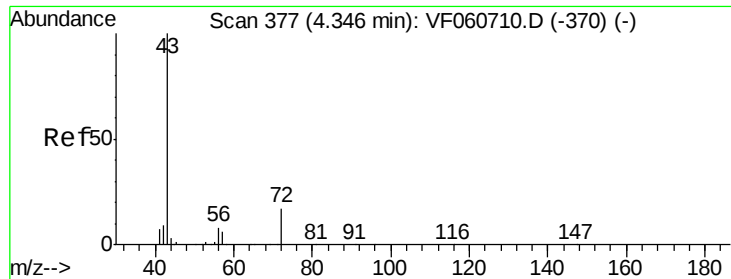
Tgt Ion: 43 Resp: 3067

Ion Ratio Lower Upper

43 100

74 0.0 11.8 17.8#





#25

2-Butanone

Concen: 4.491 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

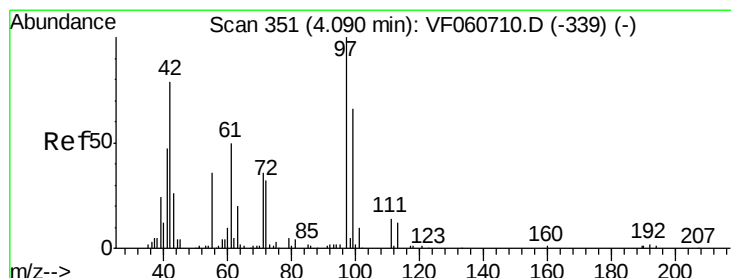
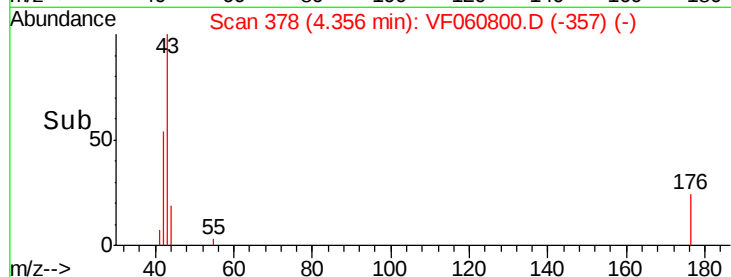
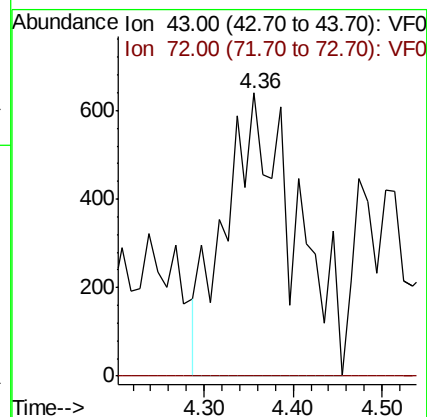
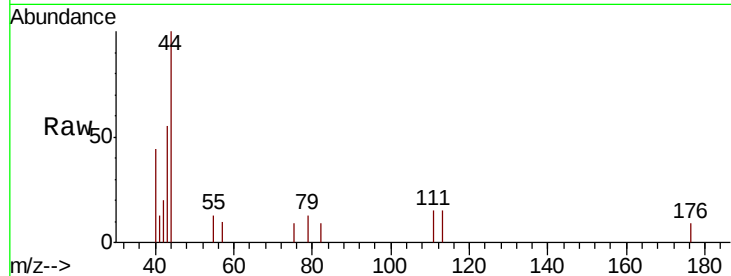
SSI-04

Tot Ion: 43 Resp: 3500

Ion Ratio Lower Upper

43 100

72 0.0 16.1 24.1#



#29

Tetrahydrofuran

Concen: 5.052 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

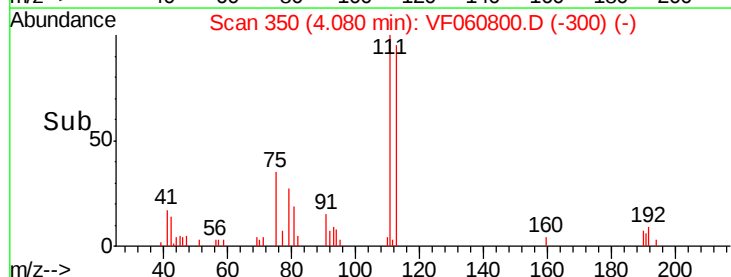
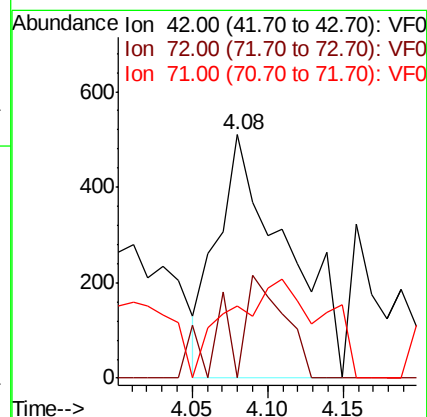
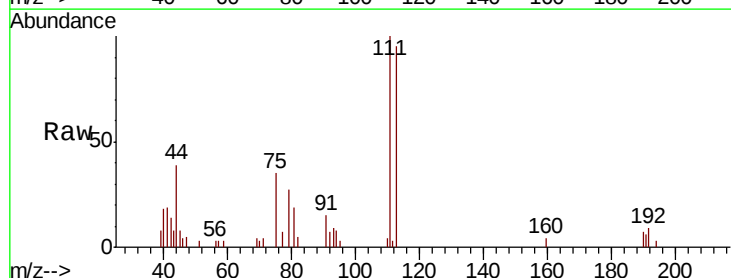
Tgt Ion: 42 Resp: 1624

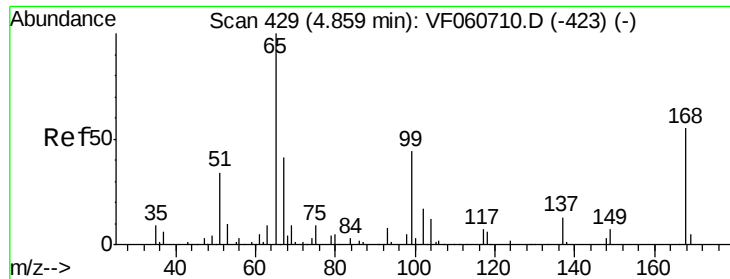
Ion Ratio Lower Upper

42 100

72 33.3 30.3 45.5

71 0.0 32.2 48.2#

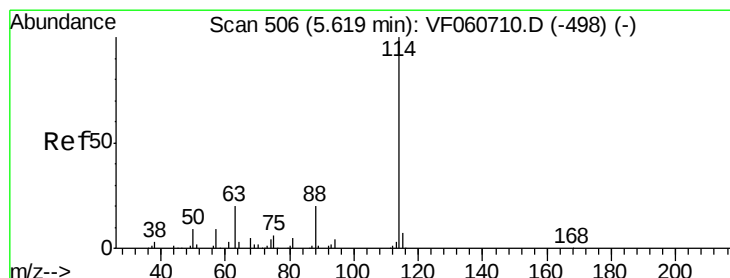
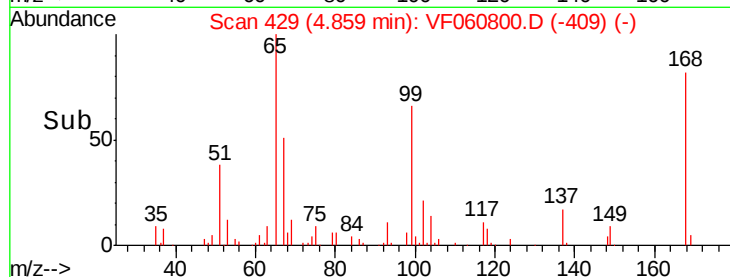
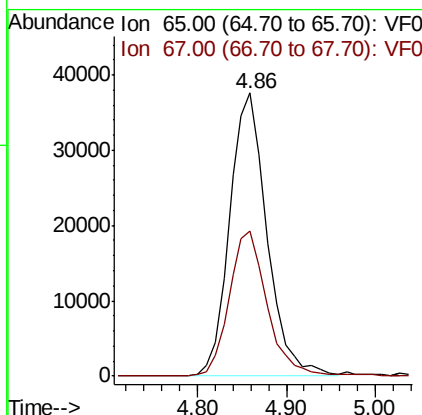
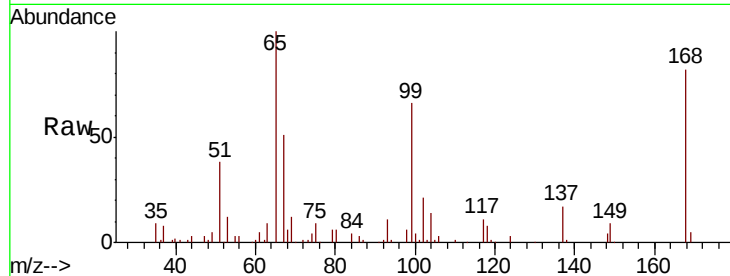




#33
 1,2-Dichloroethane-d4
 Concen: 49.603 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF060800.D
 Acq: 20 Nov 2018 2:42

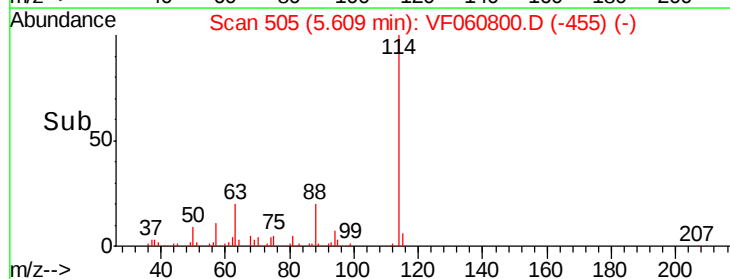
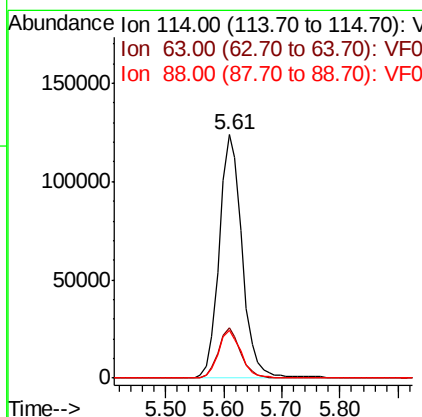
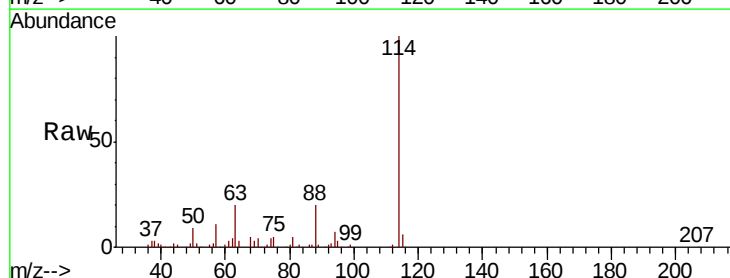
Instrument :
 MSVOA_F
 ClientSampled :
 SSI-04

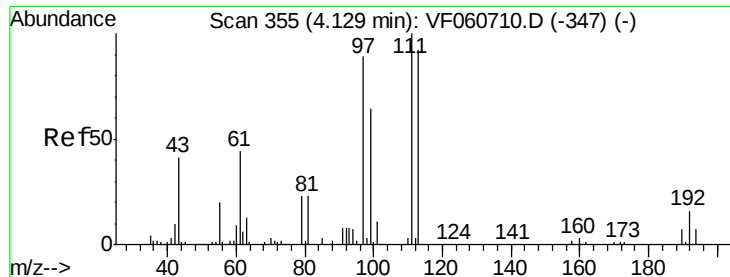
Tot Ion: 65 Resp: 109948
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060800.D
 Acq: 20 Nov 2018 2:42

Tgt Ion: 114 Resp: 337802
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 19.8 0.0 39.6





#35

Dibromofluoromethane

Concen: 53.283 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampled :

SSI-04

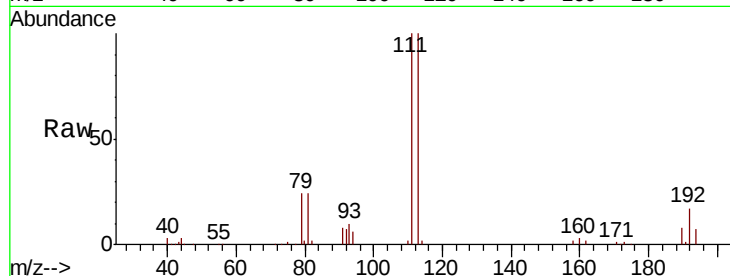
Tot Ion:113 Resp: 135299

Ion Ratio Lower Upper

113 100

111 99.6 87.1 130.7

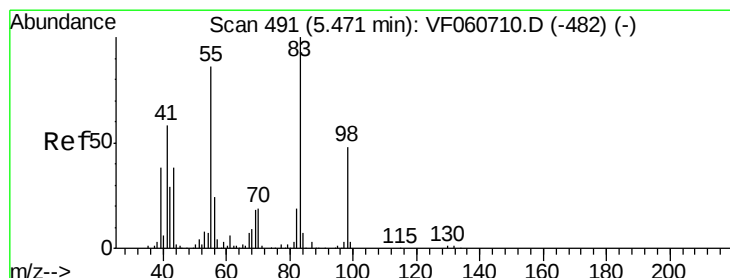
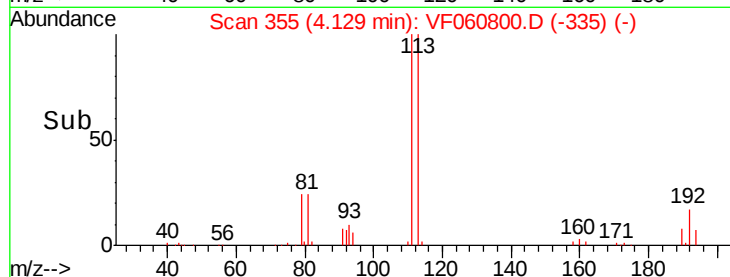
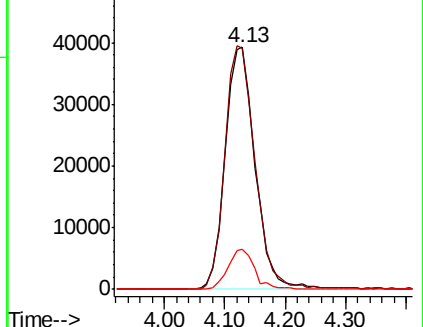
192 16.6 13.8 20.6



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



#39

Methylcyclohexane

Concen: 1.939 ug/l

RT: 5.46 min Scan# 490

Delta R.T. -0.01 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

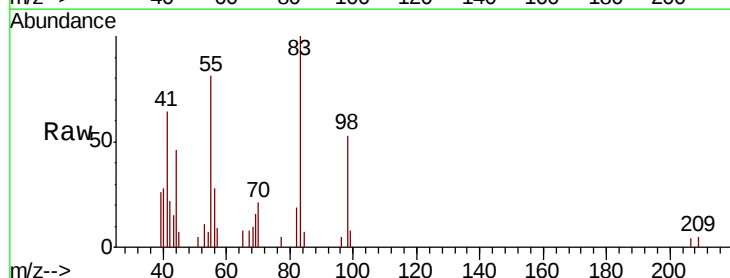
Tgt Ion: 83 Resp: 8813

Ion Ratio Lower Upper

83 100

55 80.8 69.0 103.4

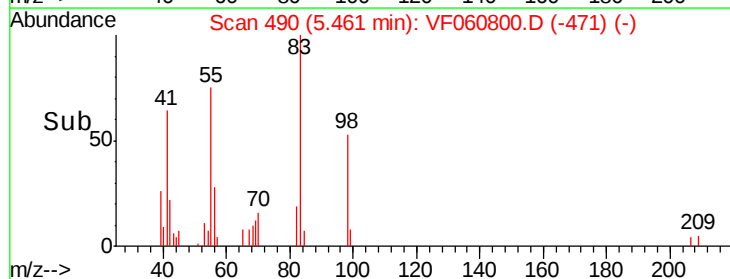
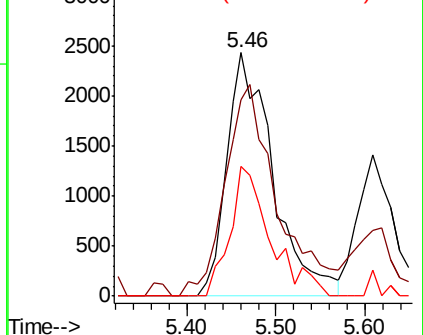
98 53.4 38.5 57.7

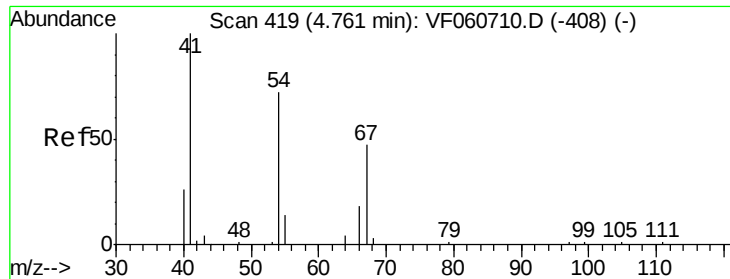


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

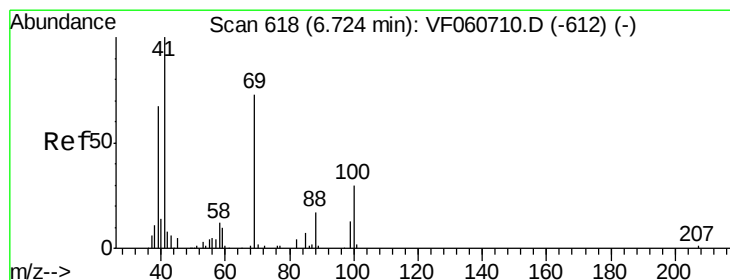
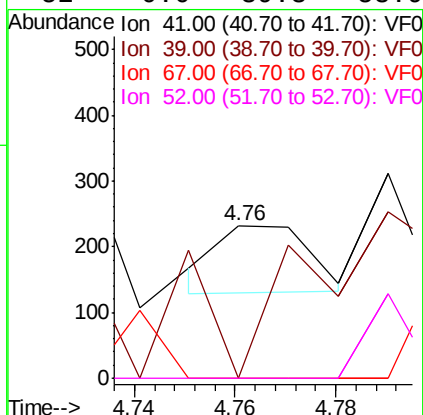
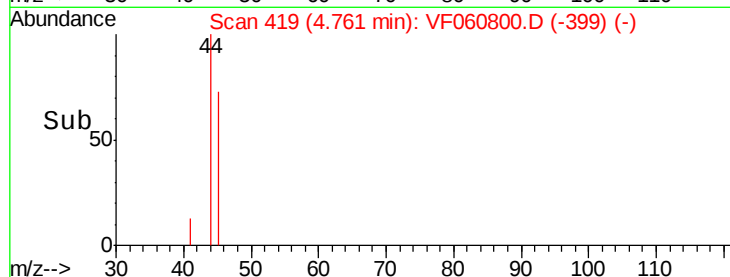
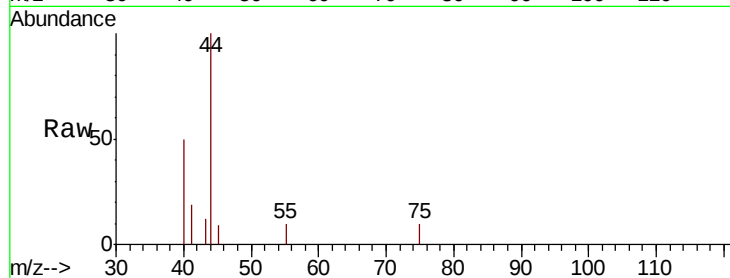




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.76 min Scan# 419
Delta R.T. 0.00 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

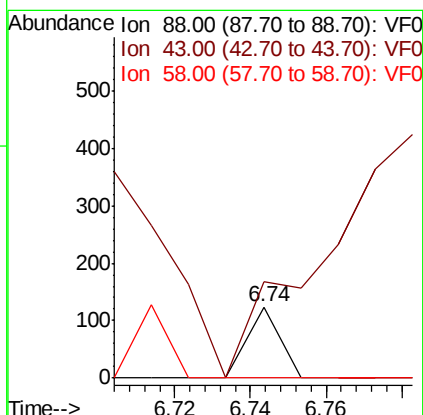
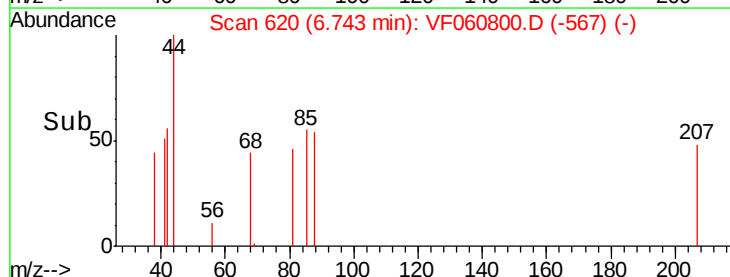
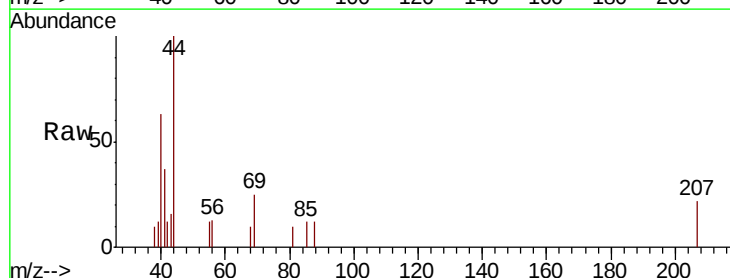
Instrument :
MSVOA_F
ClientSampled :
SSI-04

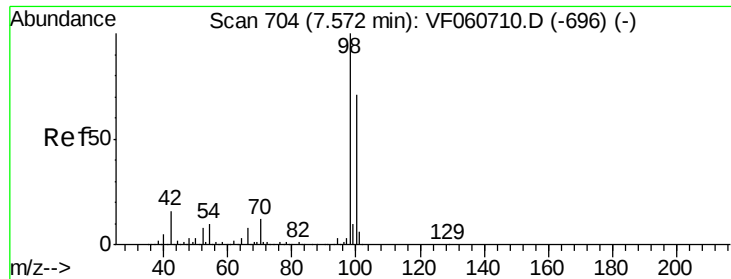
Tot Ion:	41	Resp:	126
Ion	Ratio	Lower	Upper
41	100		
39	0.0	47.1	70.7#
67	0.0	37.1	55.7#
52	0.0	39.3	58.9#



#49
1,4-Dioxane
Concen: 6.107 ug/l
RT: 6.74 min Scan# 620
Delta R.T. 0.02 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

Tgt Ion:	88	Resp:	73
Ion	Ratio	Lower	Upper
88	100		
43	134.7	44.6	66.8#
58	0.0	54.5	81.7#





#50

Toluene-d8

Concen: 49.124 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampled :

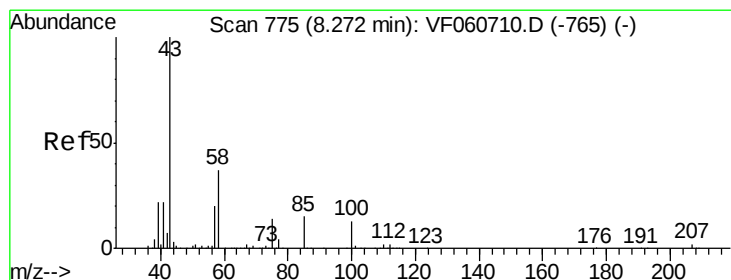
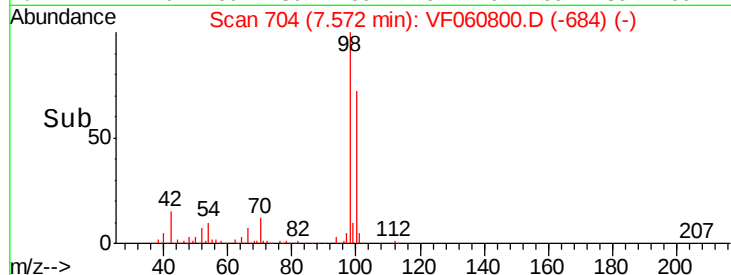
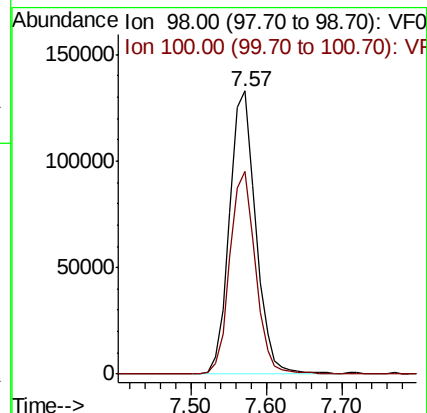
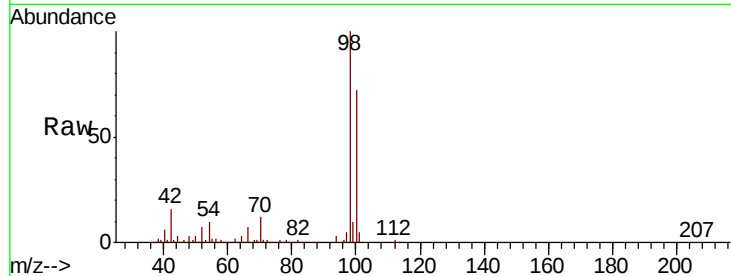
SSI-04

Tot Ion: 98 Resp: 320510

Ion Ratio Lower Upper

98 100

100 71.7 56.5 84.7



#51

4-Methyl-2-Pentanone

Concen: 6.750 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.02 min

Lab File: VF060800.D

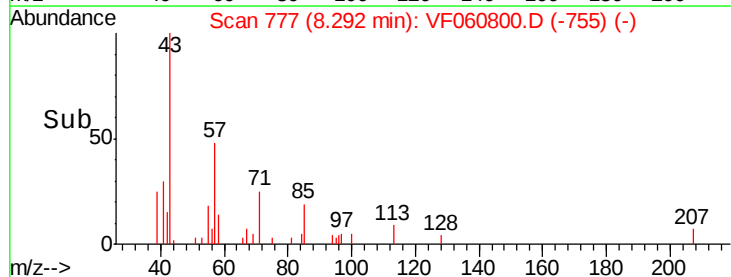
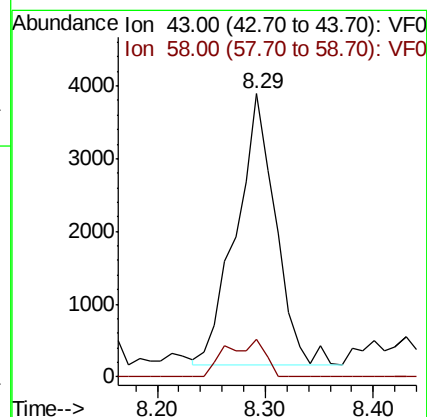
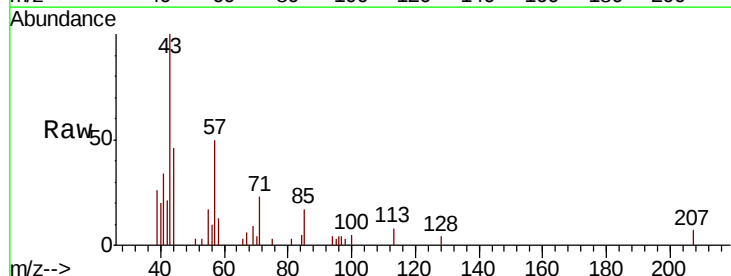
Acq: 20 Nov 2018 2:42

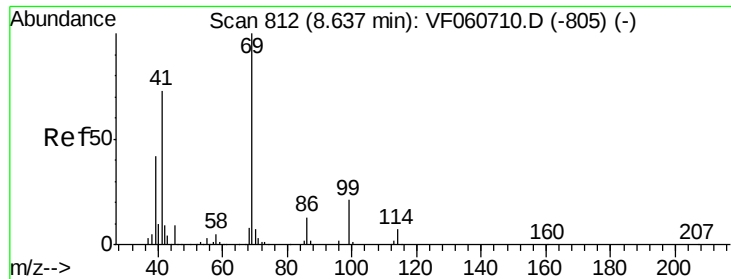
Tgt Ion: 43 Resp: 9428

Ion Ratio Lower Upper

43 100

58 13.2 29.2 43.8#





#56

Ethyl methacrylate

Concen: 11.412 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleID :

SSI-04

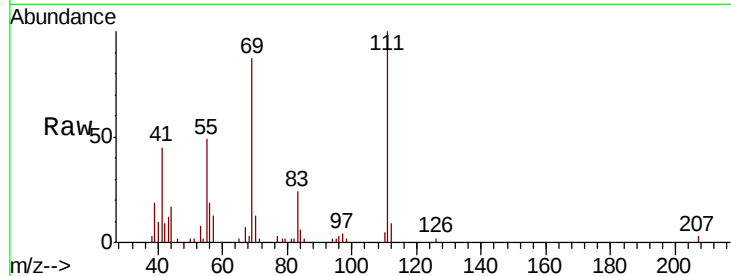
Tot Ion: 69 Resp: 21671

Ion Ratio Lower Upper

69 100

41 51.8 59.0 88.6#

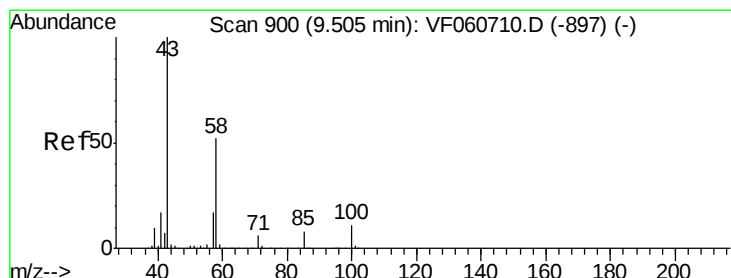
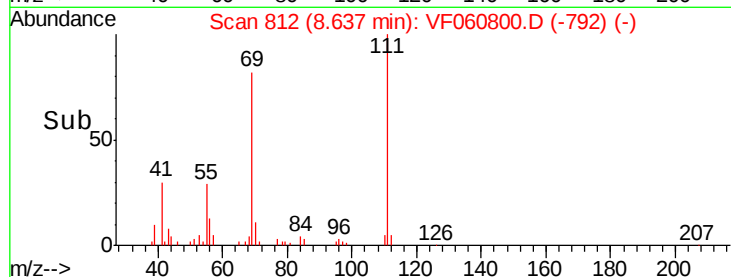
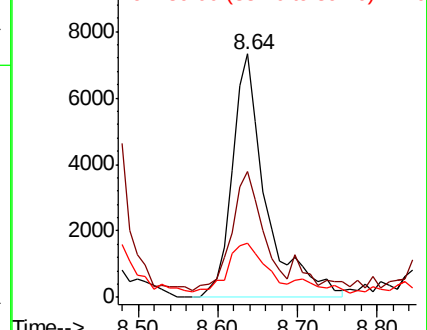
39 22.0 34.0 51.0#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 4.922 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.01 min

Lab File: VF060800.D

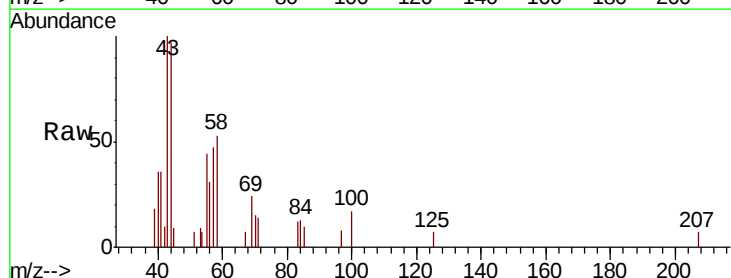
Acq: 20 Nov 2018 2:42

Tgt Ion: 43 Resp: 4831

Ion Ratio Lower Upper

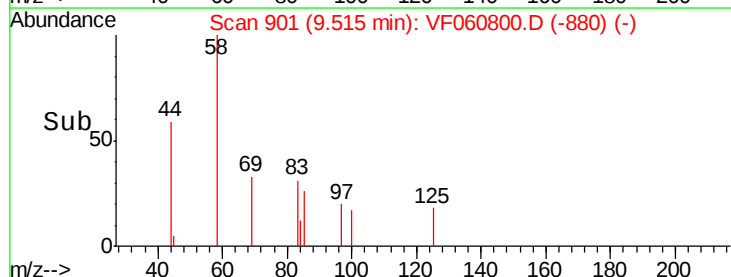
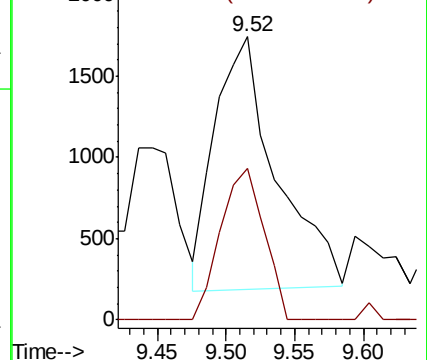
43 100

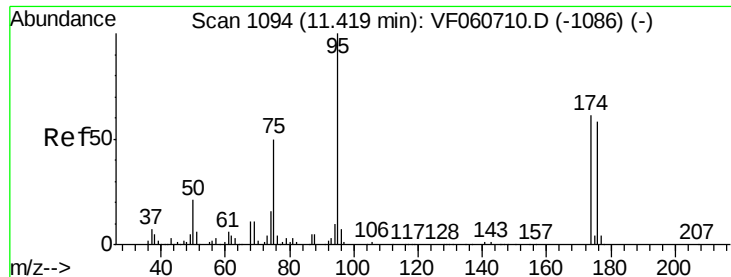
58 53.4 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 51.254 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

SSI-04

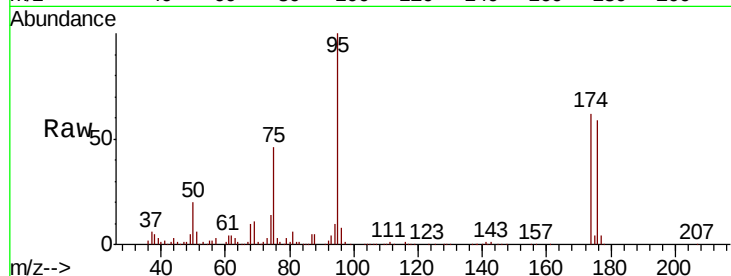
Tot Ion: 95 Resp: 153706

Ion Ratio Lower Upper

95 100

174 61.5 0.0 121.6

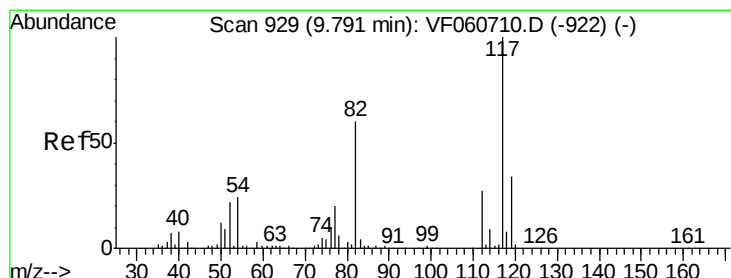
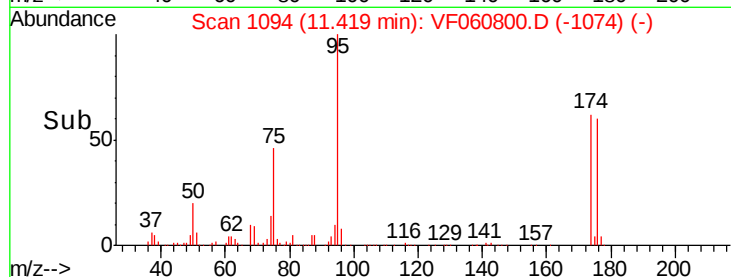
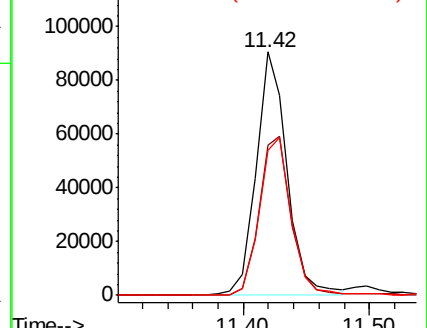
176 59.4 0.0 115.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

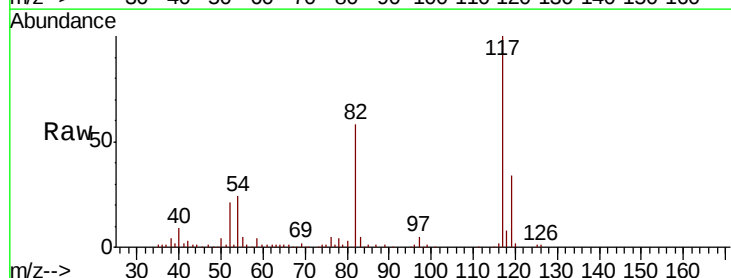
Tgt Ion: 117 Resp: 275255

Ion Ratio Lower Upper

117 100

82 57.9 47.9 71.9

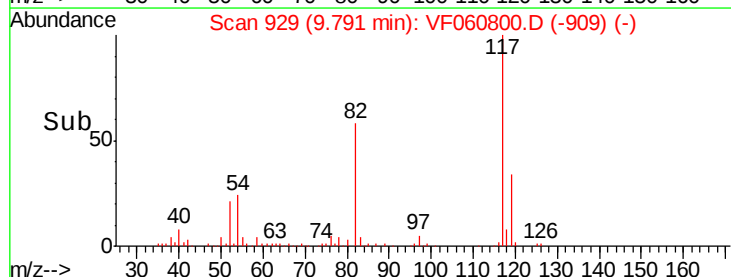
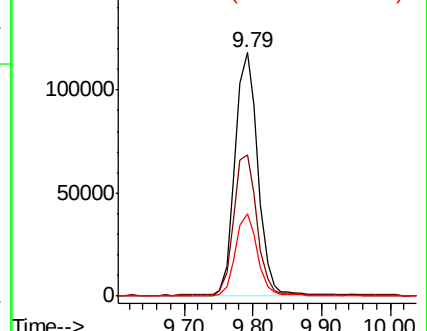
119 34.0 26.8 40.2

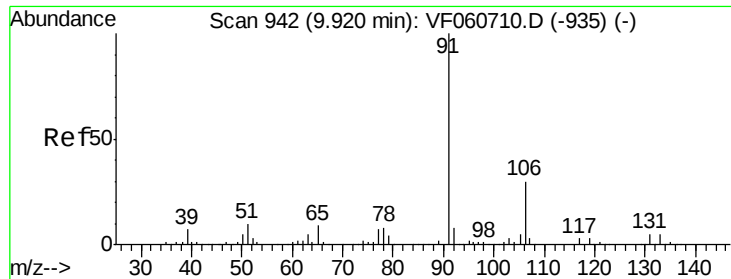


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

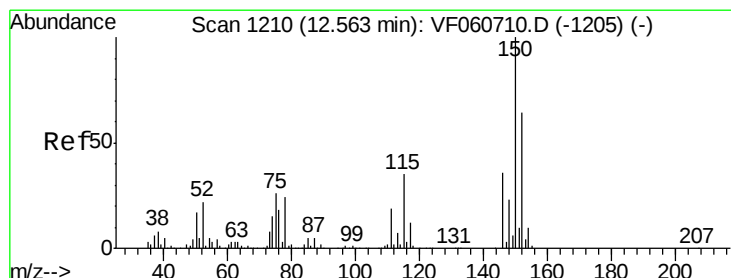
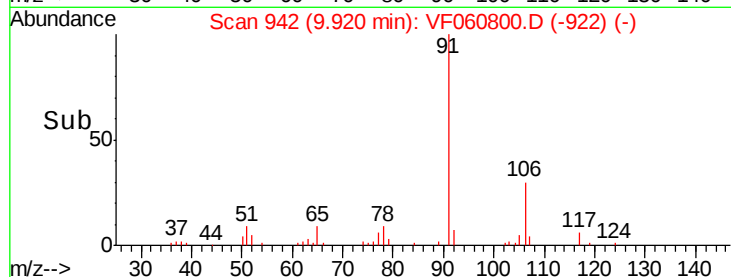
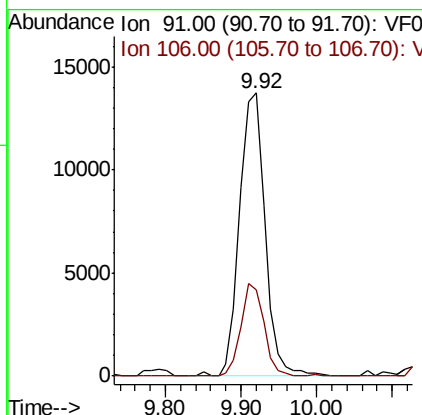
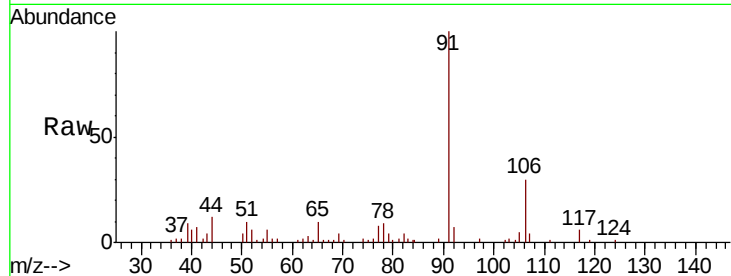




#67
Ethyl Benzene
Concen: 3.070 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

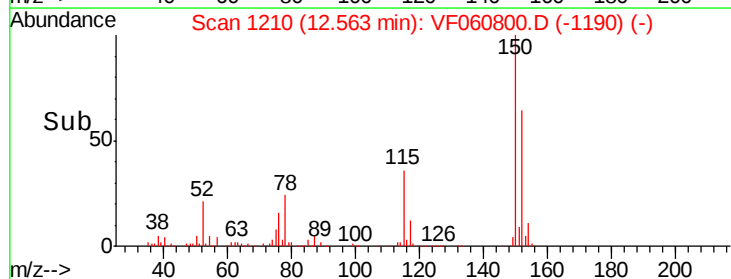
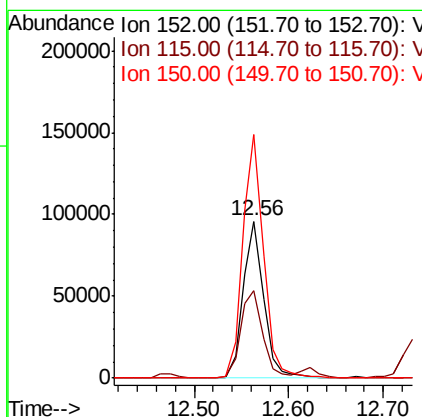
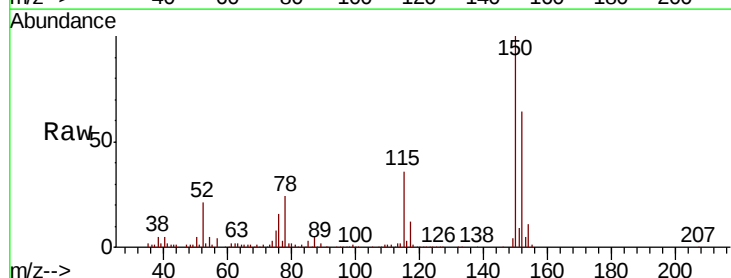
Instrument :
MSVOA_F
ClientSampleId :
SSI-04

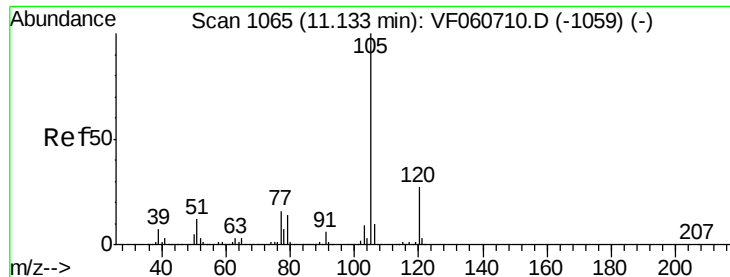
Tot Ion: 91 Resp: 32145
Ion Ratio Lower Upper
91 100
106 30.3 23.9 35.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF060800.D
Acq: 20 Nov 2018 2:42

Tgt Ion: 152 Resp: 144992
Ion Ratio Lower Upper
152 100
115 56.1 27.9 83.7
150 155.0 0.0 316.4





#73

Isopropylbenzene

Concen: 2.573 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

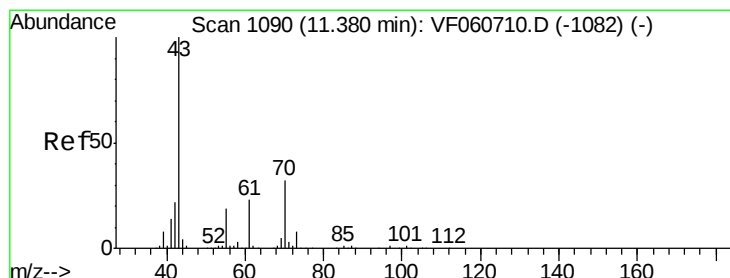
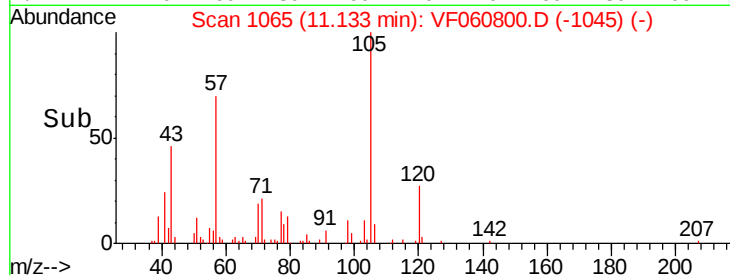
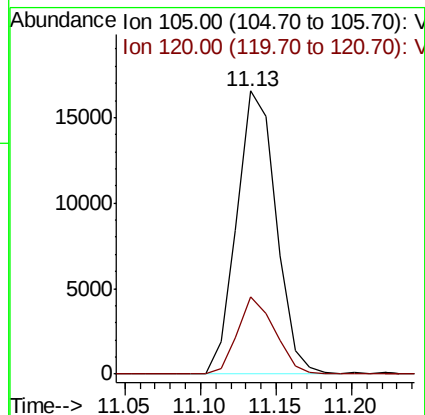
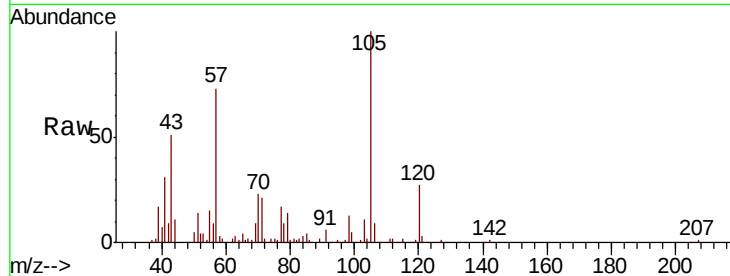
SSI-04

Tot Ion:105 Resp: 30024

Ion Ratio Lower Upper

105 100

120 27.4 13.4 40.1



#74

N-ethyl acetate

Concen: 1.379 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Tgt Ion: 43 Resp: 3663

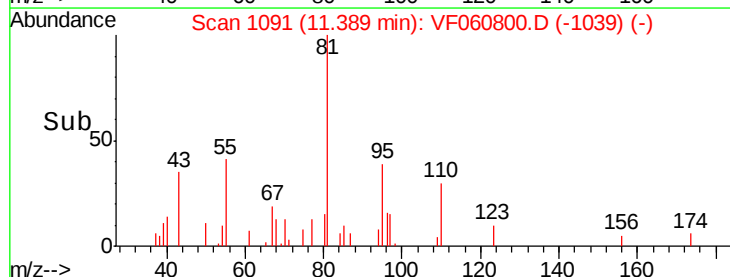
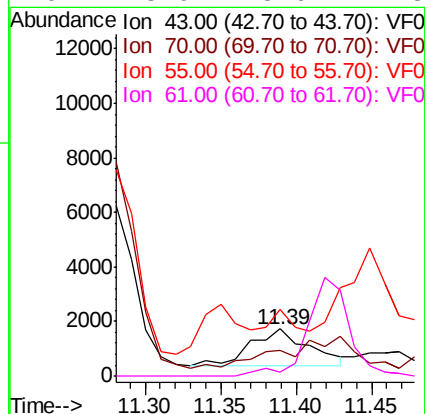
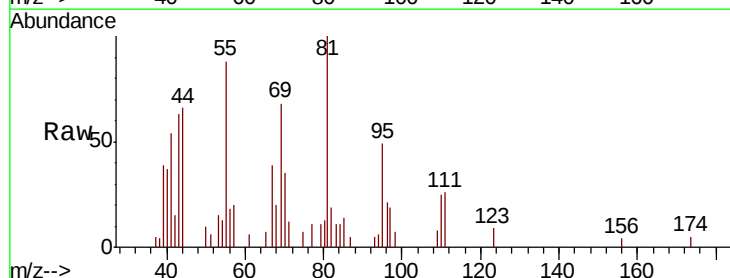
Ion Ratio Lower Upper

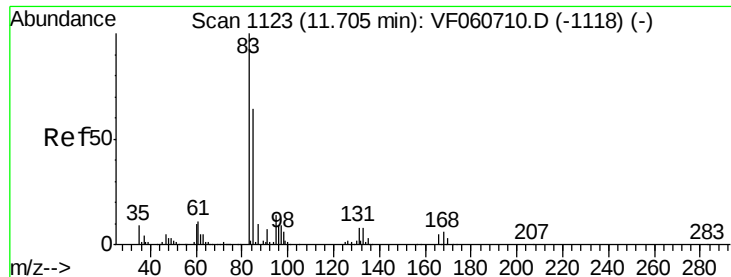
43 100

70 55.3 25.5 38.3#

55 139.8 14.9 22.3#

61 8.9 18.6 27.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.884 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

SSI-04

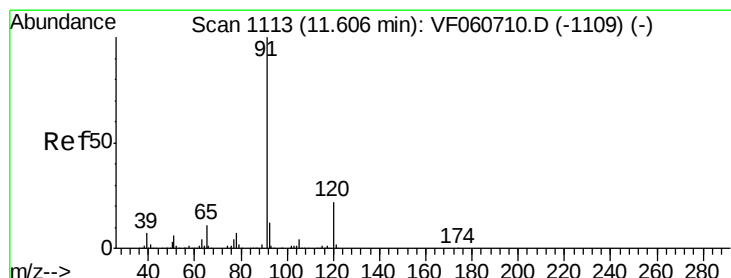
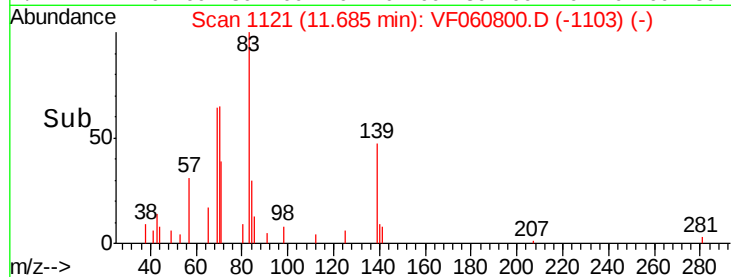
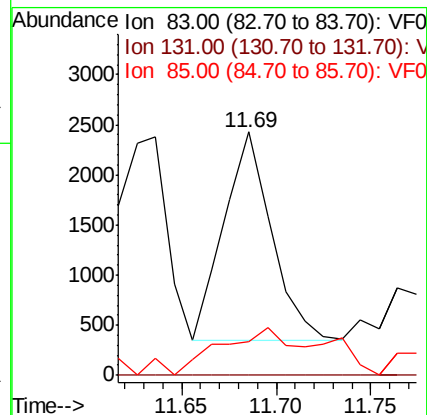
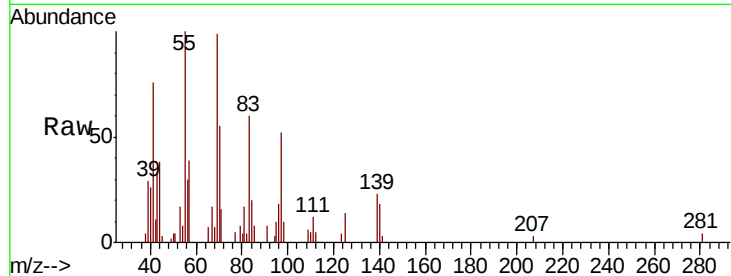
Tot Ion: 83 Resp: 3635

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 13.9 32.0 96.2#



#78

n-propylbenzene

Concen: 7.480 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF060800.D

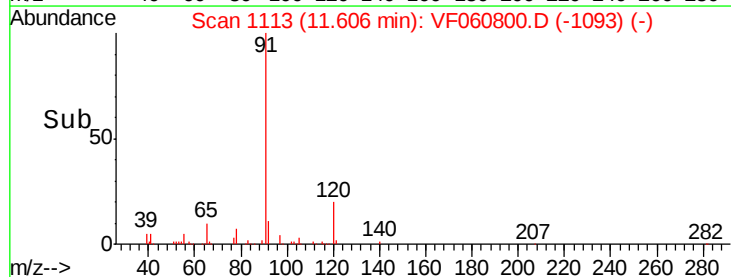
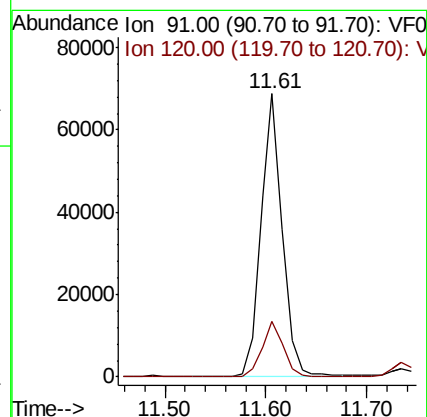
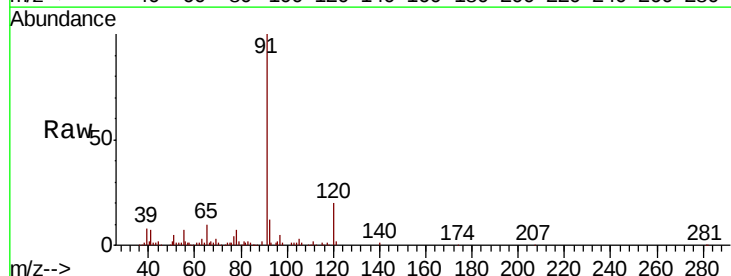
Acq: 20 Nov 2018 2:42

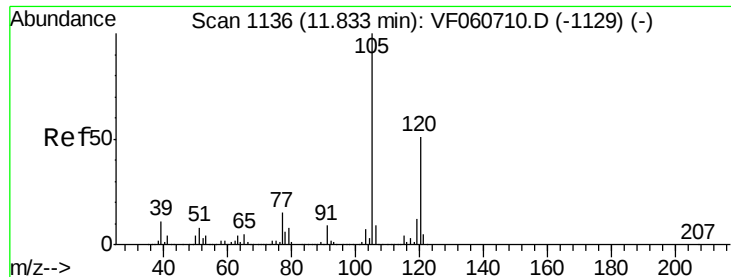
Tgt Ion: 91 Resp: 101818

Ion Ratio Lower Upper

91 100

120 19.7 11.2 33.5





#80

1,3,5-Trimethylbenzene

Concen: 7.508 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampleId :

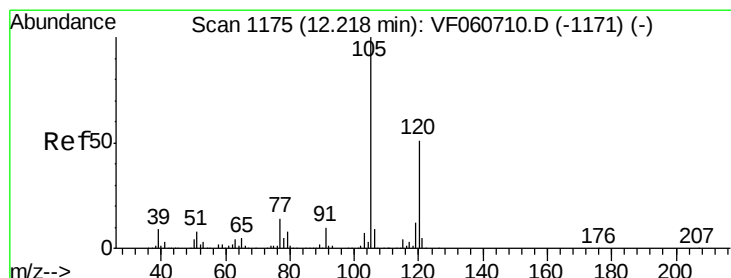
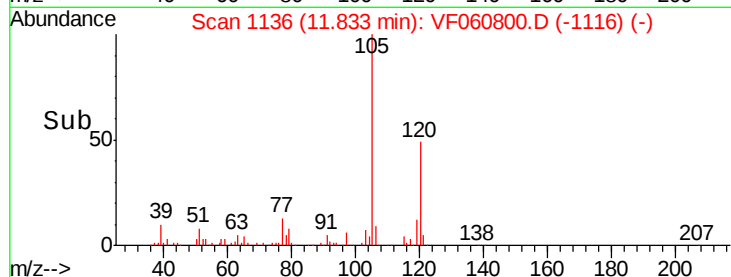
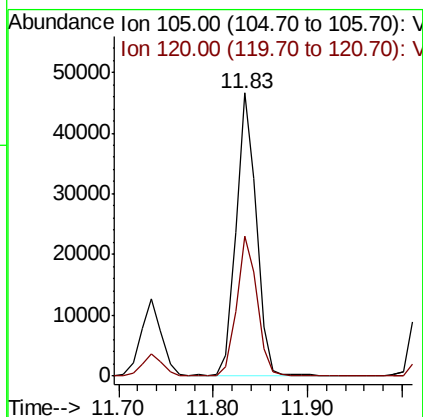
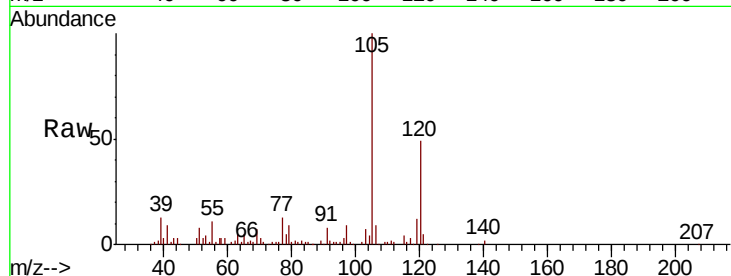
SSI-04

Tot Ion:105 Resp: 69564

Ion Ratio Lower Upper

105 100

120 49.4 25.6 76.8



#84

1,2,4-Trimethylbenzene

Concen: 50.748 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VF060800.D

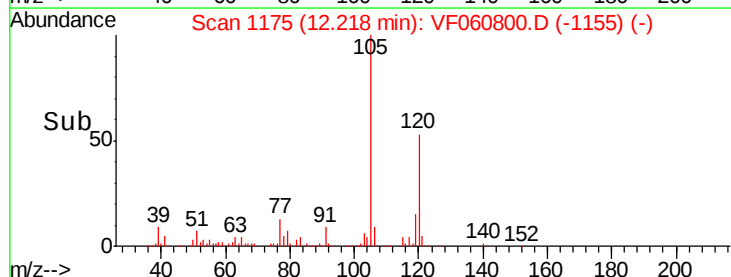
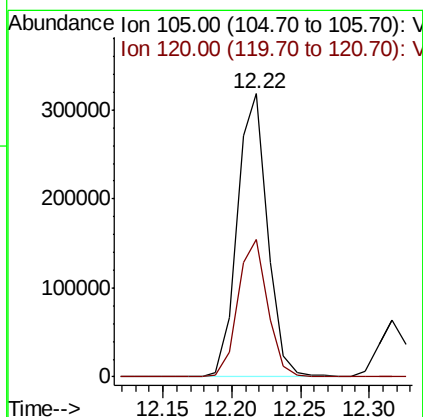
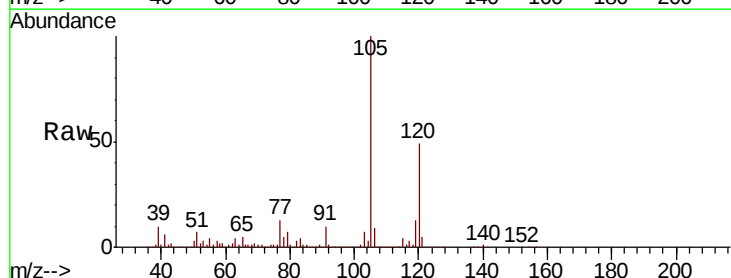
Acq: 20 Nov 2018 2:42

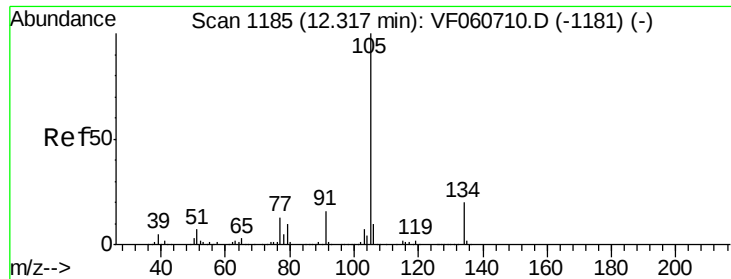
Tgt Ion:105 Resp: 486304

Ion Ratio Lower Upper

105 100

120 48.5 25.5 76.5

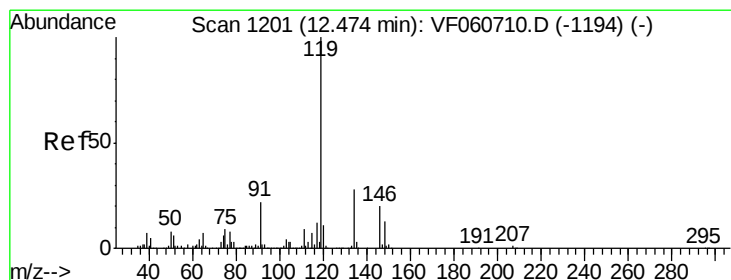
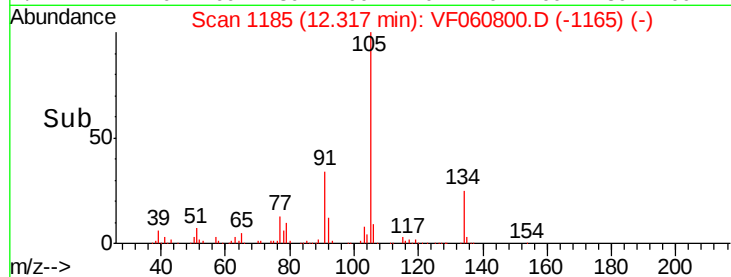
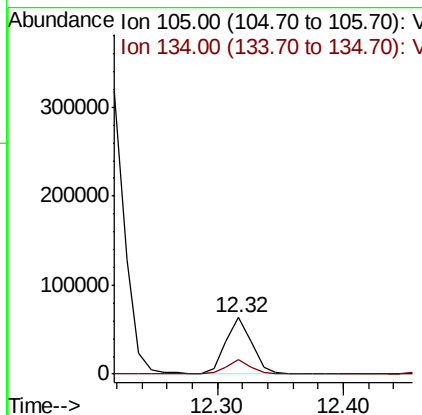
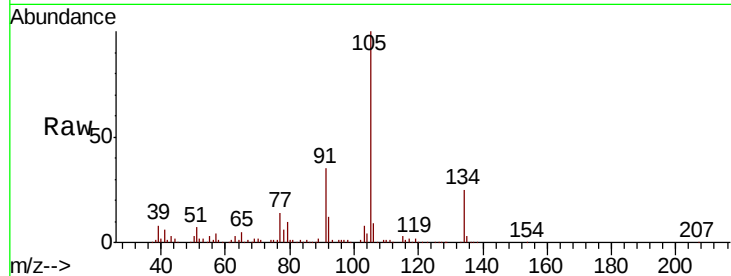




#85
 sec-Butylbenzene
 Concen: 6.757 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF060800.D
 Acq: 20 Nov 2018 2:42

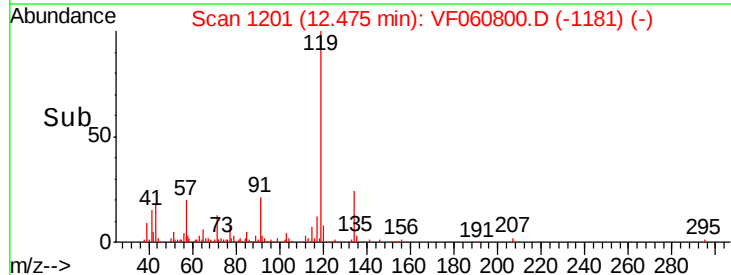
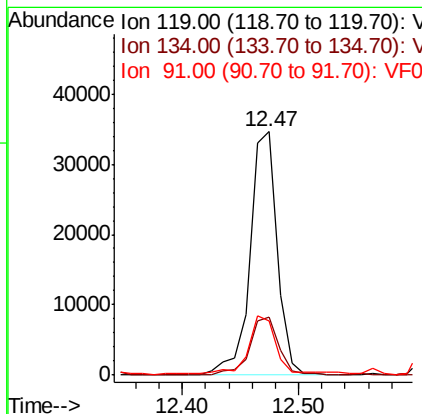
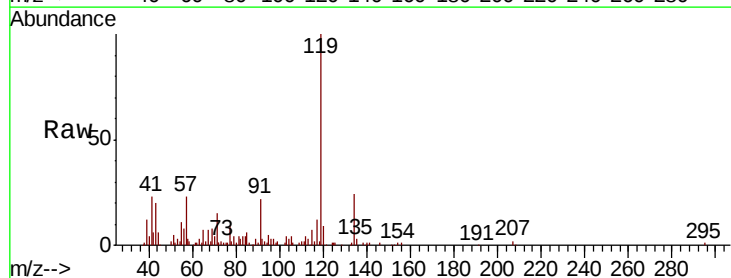
Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-04

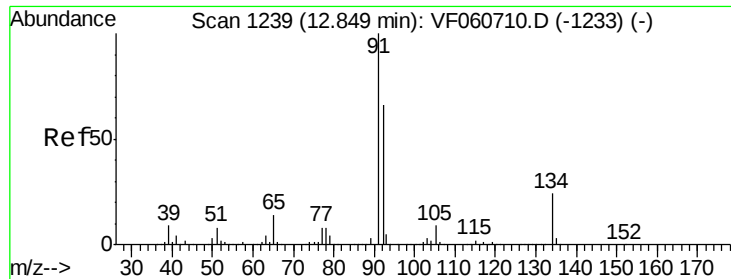
Tot Ion:105 Resp: 90180
 Ion Ratio Lower Upper
 105 100
 134 25.3 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 5.040 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF060800.D
 Acq: 20 Nov 2018 2:42

Tgt Ion:119 Resp: 56180
 Ion Ratio Lower Upper
 119 100
 134 23.6 13.9 41.7
 91 22.3 11.3 33.9





#89

n-Butylbenzene

Concen: 10.411 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampled :

SSI-04

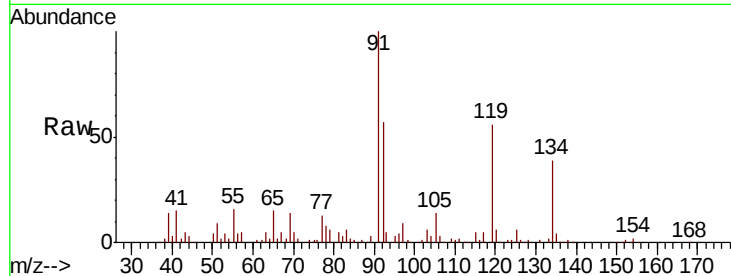
Tot Ion: 91 Resp: 118427

Ion Ratio Lower Upper

91 100

92 57.4 33.1 99.2

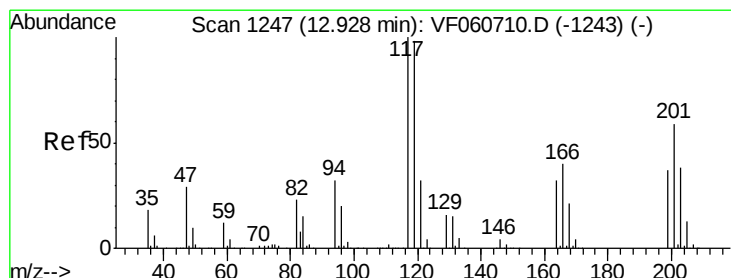
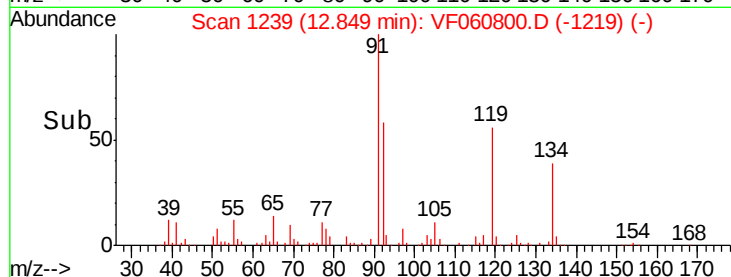
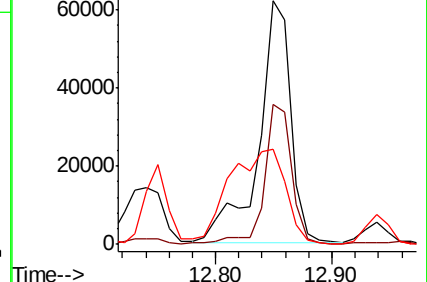
134 38.9 11.9 35.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 1.633 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VF060800.D

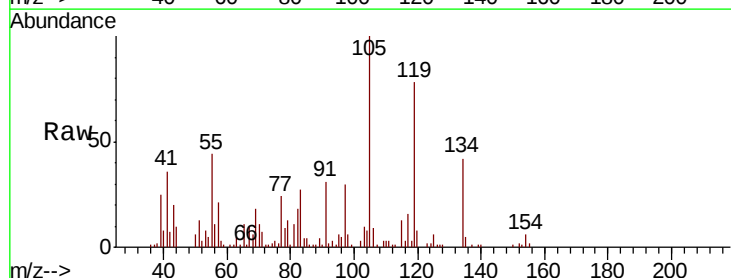
Acq: 20 Nov 2018 2:42

Tgt Ion: 117 Resp: 4452

Ion Ratio Lower Upper

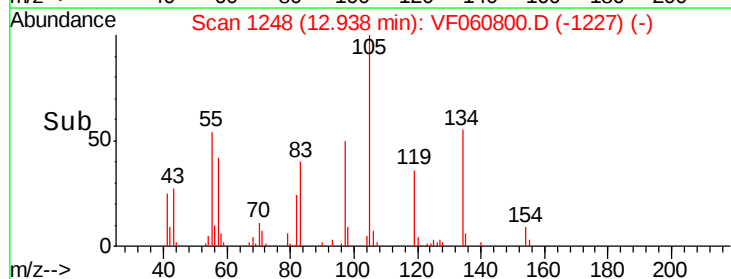
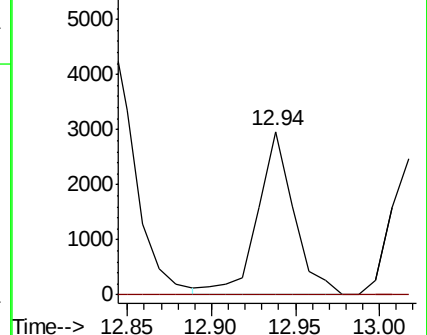
117 100

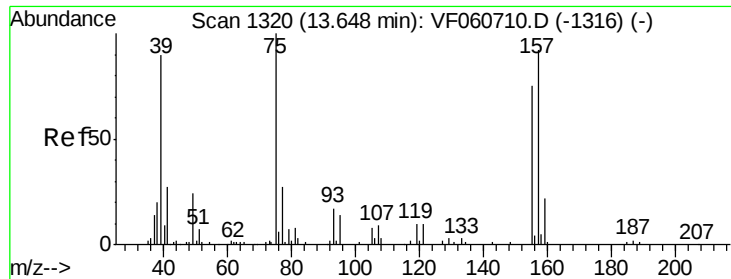
201 0.0 29.4 88.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.495 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

Instrument :

MSVOA_F

ClientSampled :

SSI-04

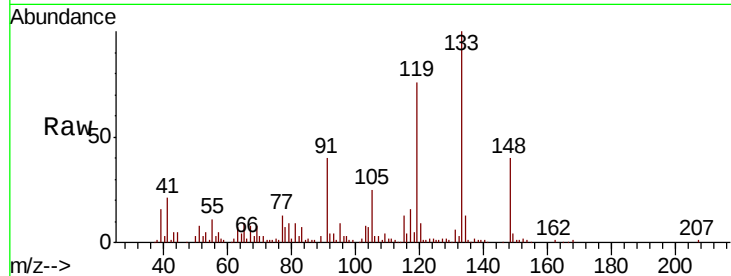
Tot Ion: 75 Resp: 905

Ion Ratio Lower Upper

75 100

155 0.0 37.4 112.2#

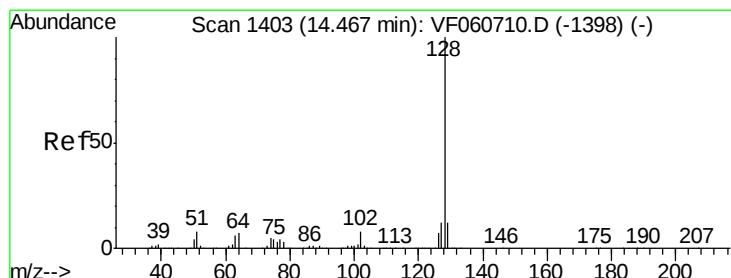
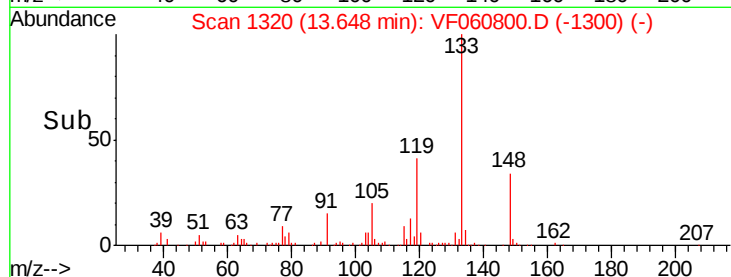
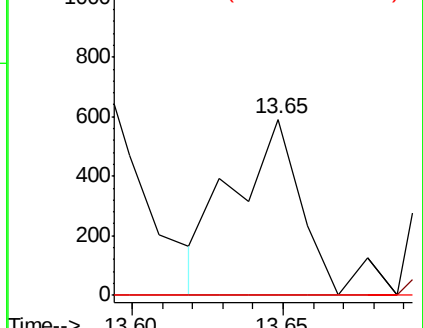
157 0.0 46.0 138.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#95

Naphthalene

Concen: 42.627 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF060800.D

Acq: 20 Nov 2018 2:42

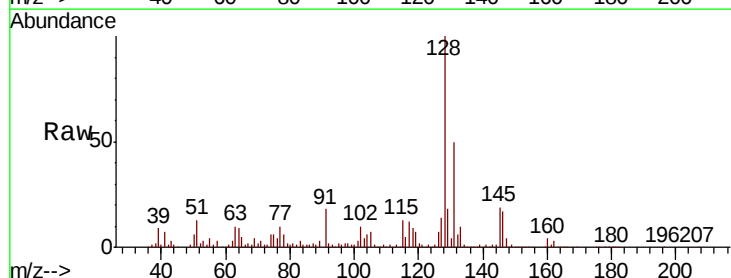
Tgt Ion: 128 Resp: 254480

Ion Ratio Lower Upper

128 100

127 14.2 9.8 14.6

129 17.8 9.3 13.9#



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

