

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111918\
 Data File : VF060788.D
 Acq On : 19 Nov 2018 20:58
 Operator : VA/AP
 Sample : J5950-06
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-20-TW-1

Quant Time: Nov 20 02:20:02 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	160359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	273131	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	244797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	134045	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	88820	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	4.12	113	108651	52.92	ug/l	0.00
Spiked Amount			Recovery	=	105.84%	
50) Toluene-d8	7.57	98	260109	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
62) 4-Bromofluorobenzene	11.42	95	127615	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	

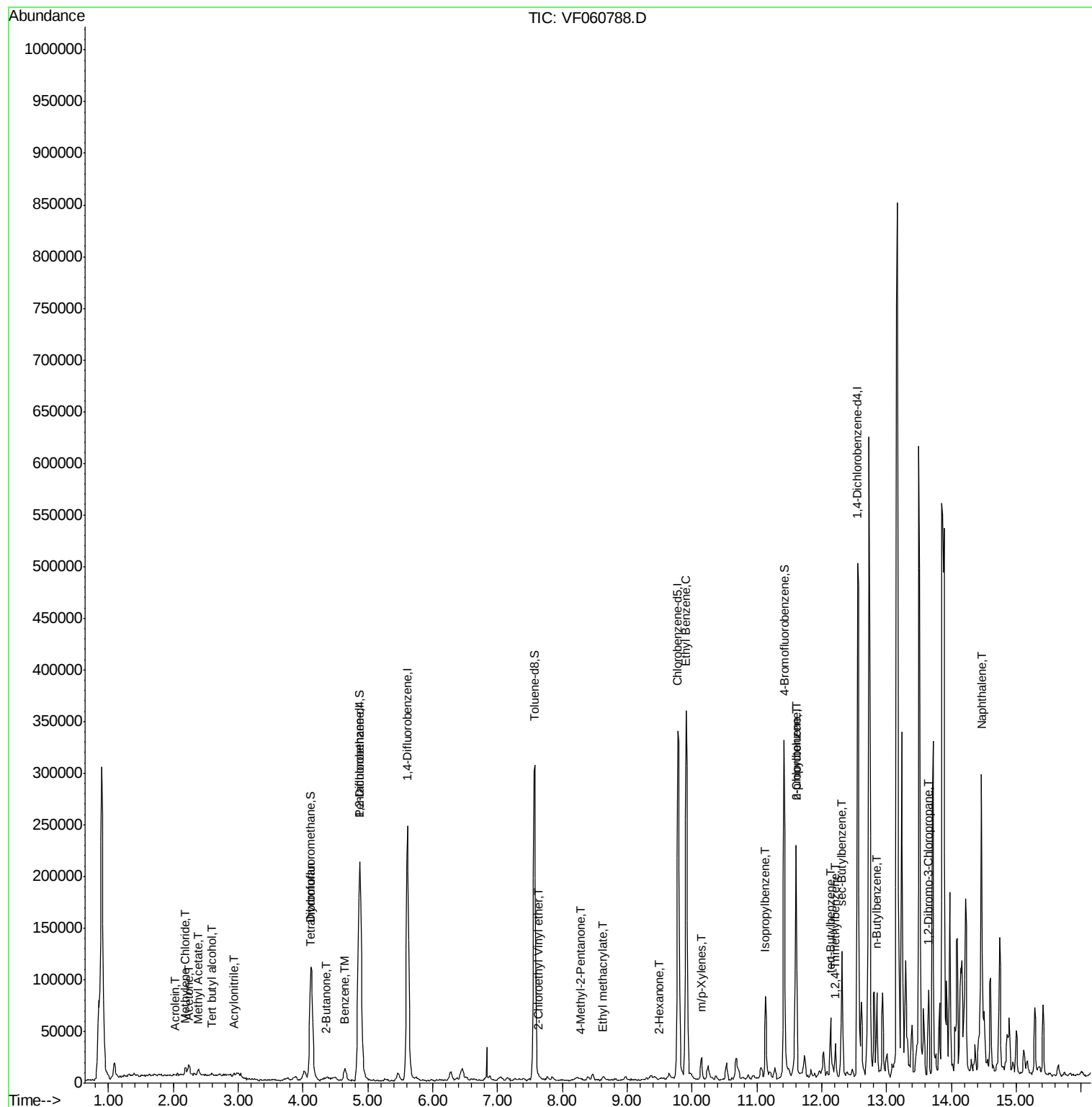
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	204	2.451	ug/l #	1
13) Acrolein	2.04	56	472	6.201	ug/l	93
15) Acrylonitrile	2.93	53	576	3.247	ug/l #	38
16) Acetone	2.25	43	12596	32.219	ug/l #	92
18) Methyl Acetate	2.38	43	3251	5.064	ug/l #	64
20) Methylene Chloride	2.19	84	4954	1.009	ug/l	93
25) 2-Butanone	4.35	43	4963	7.718	ug/l #	86
29) Tetrahydrofuran	4.10	42	866	3.265	ug/l #	44
40) Benzene	4.64	78	14733	2.086	ug/l	97
41) Methacrylonitrile	4.76	41	1053	Below Cal	#	26
51) 4-Methyl-2-Pentanone	8.27	43	1839	1.628	ug/l #	78
56) Ethyl methacrylate	8.64	69	1639	1.067	ug/l #	90
58) 2-Chloroethyl Vinyl ether	7.64	63	173	1.233	ug/l	100
59) 2-Hexanone	9.49	43	2977	3.751	ug/l #	28
67) Ethyl Benzene	9.91	91	326912	35.109	ug/l	100
68) m/p-Xylenes	10.15	106	7405	2.225	ug/l	77
73) Isopropylbenzene	11.13	105	51363	4.760	ug/l	99
78) n-propylbenzene	11.61	91	177284	14.088	ug/l	99
79) 2-Chlorotoluene	11.61	91	175831	24.041	ug/l #	41
83) tert-Butylbenzene	12.14	119	23443	2.578	ug/l	87
84) 1,2,4-Trimethylbenzene	12.21	105	9774	1.103	ug/l	89
85) sec-Butylbenzene	12.32	105	49138	3.983	ug/l	79
89) n-Butylbenzene	12.85	91	37260	3.543	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	13.65	75	418	1.247	ug/l #	7
95) Naphthalene	14.47	128	203605	36.890	ug/l	99

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

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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: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

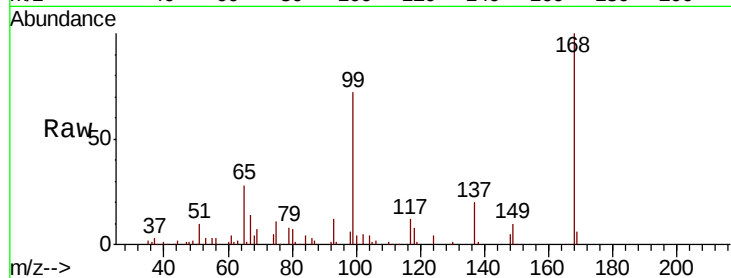
SSI-20-TW-1

Tot Ion:168 Resp: 160359

Ion Ratio Lower Upper

168 100

99 72.2 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

50000

40000

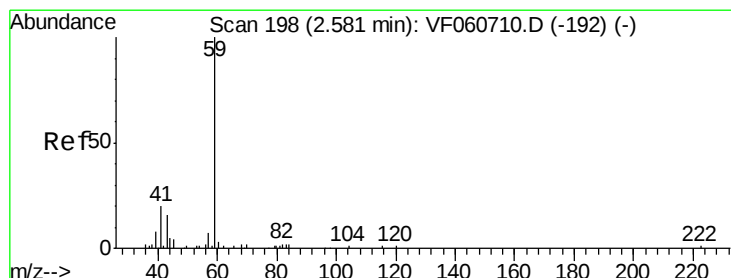
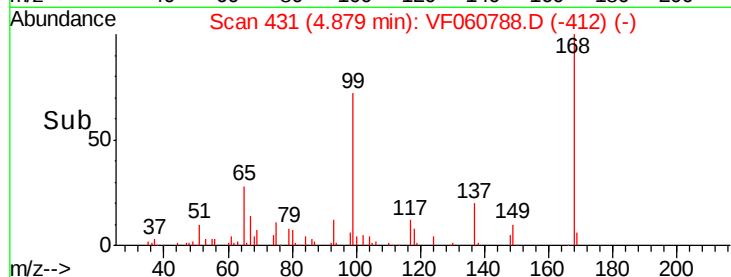
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 2.451 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF060788.D

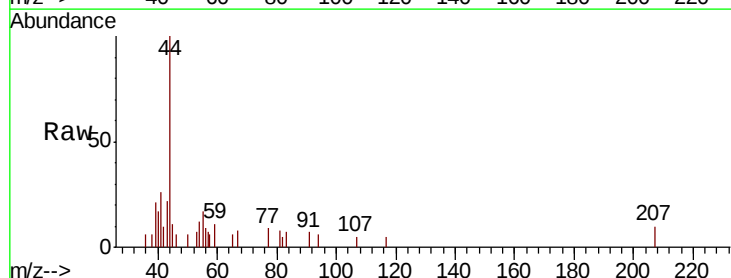
Acq: 19 Nov 2018 20:58

Tgt Ion: 59 Resp: 204

Ion Ratio Lower Upper

59 100

57 121.0 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

300

250

200

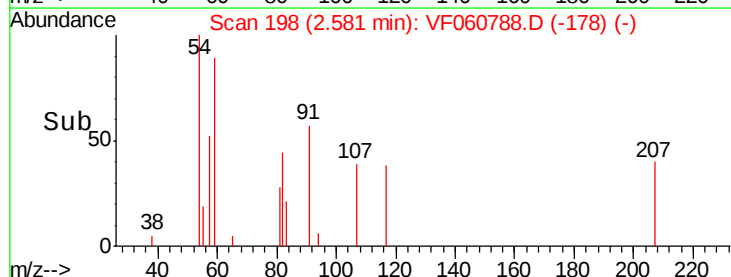
150

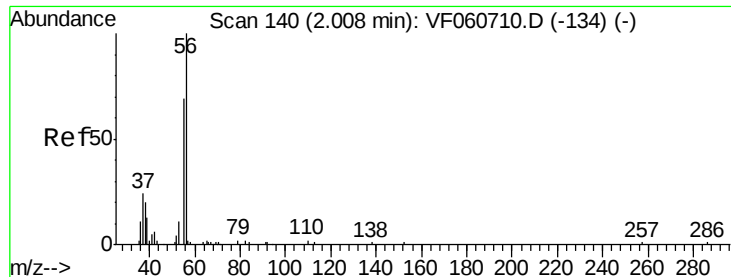
100

50

0

Time--> 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 6.201 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

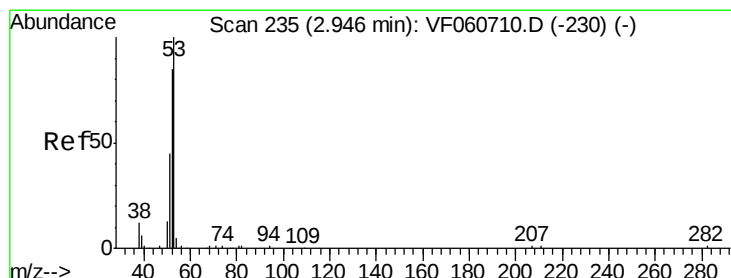
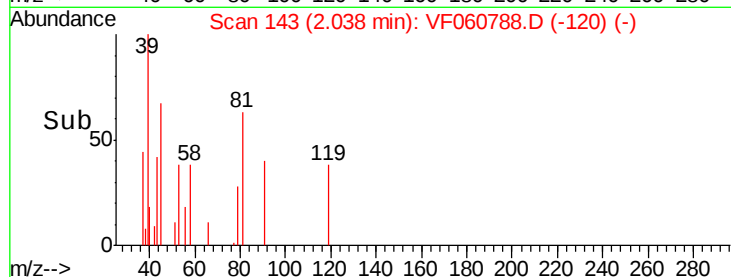
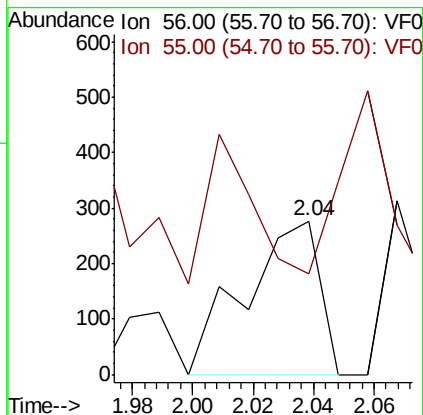
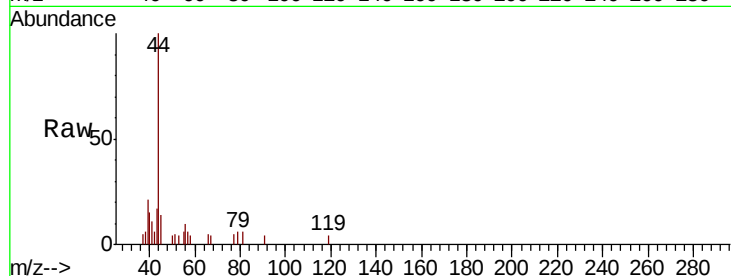
SSI-20-TW-1

Tot Ion: 56 Resp: 472

Ion Ratio Lower Upper

56 100

55 65.3 56.6 85.0



#15

Acrylonitrile

Concen: 3.247 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

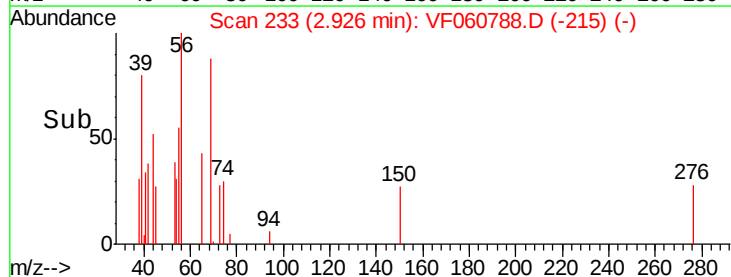
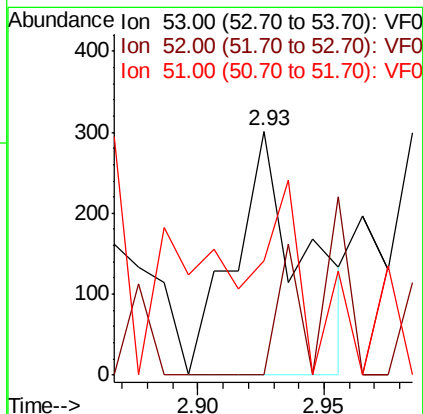
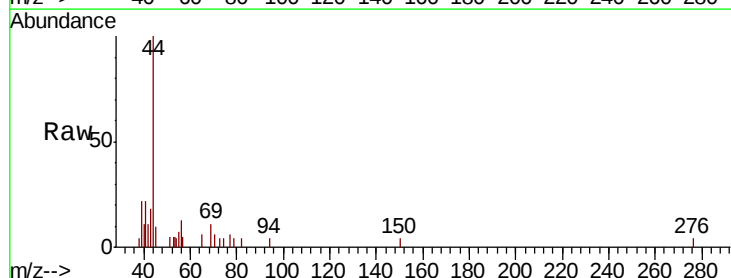
Tgt Ion: 53 Resp: 576

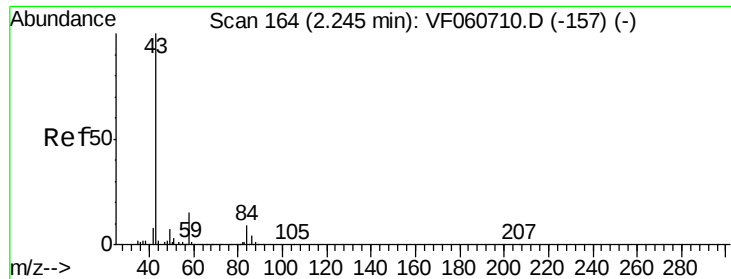
Ion Ratio Lower Upper

53 100

52 0.0 68.8 103.2#

51 47.2 36.7 55.1

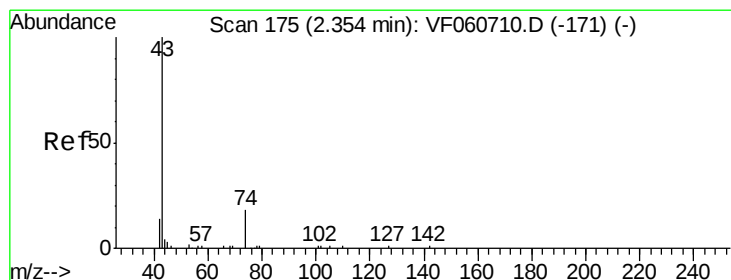
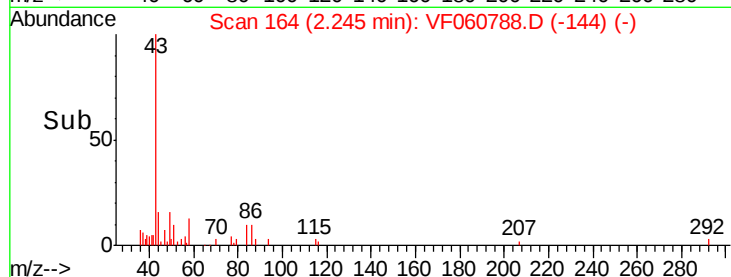
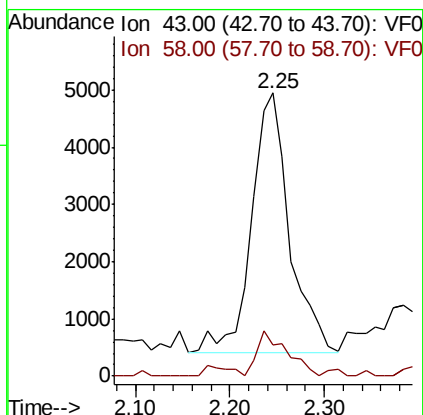
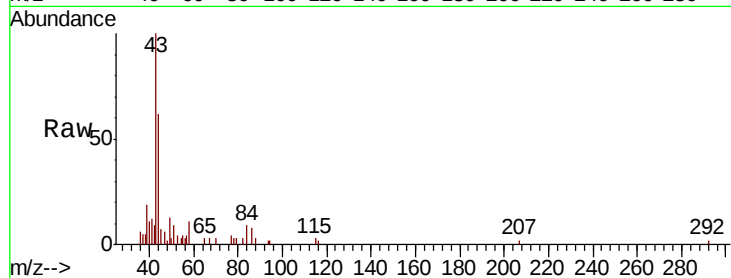




#16
Acetone
Concen: 32.219 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

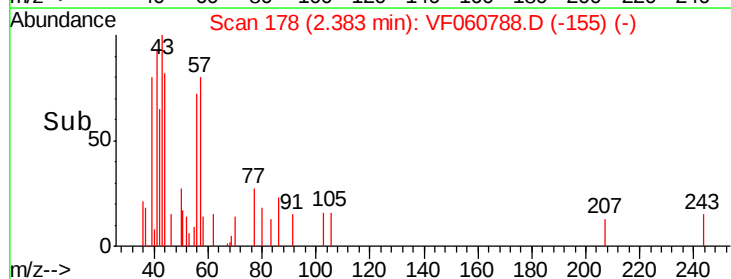
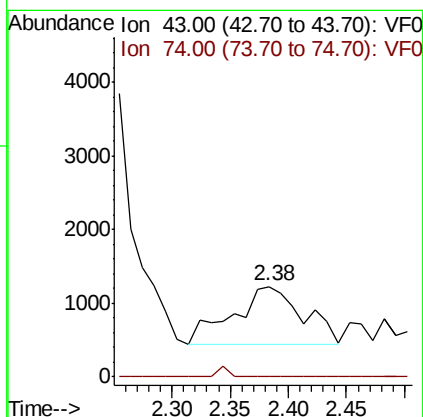
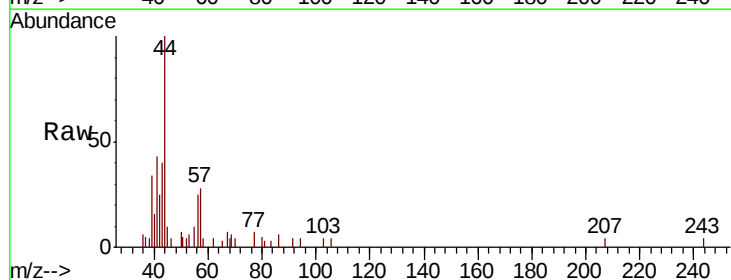
Instrument :
MSVOA_F
ClientSampled :
SSI-20-TW-1

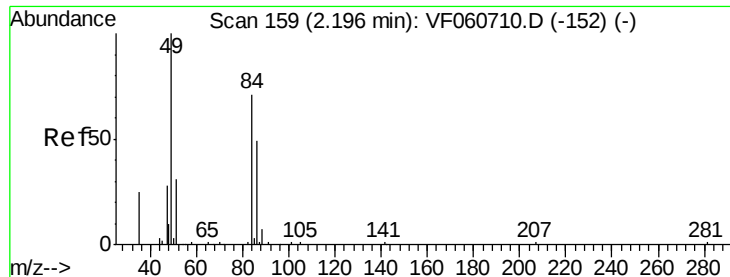
Tot Ion: 43 Resp: 12596
Ion Ratio Lower Upper
43 100
58 11.1 11.6 17.4#



#18
Methyl Acetate
Concen: 5.064 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion: 43 Resp: 3251
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#

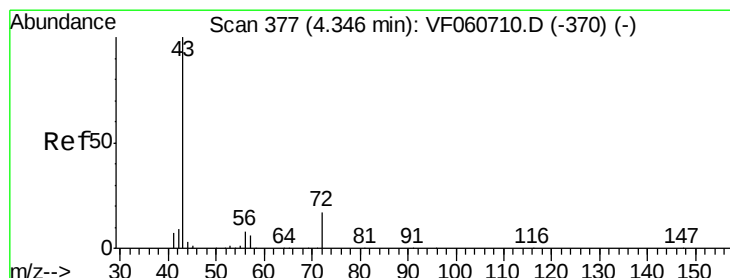
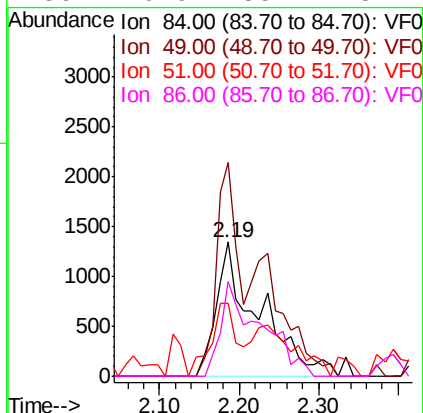
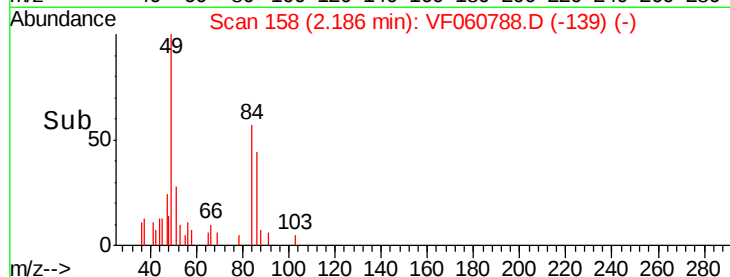
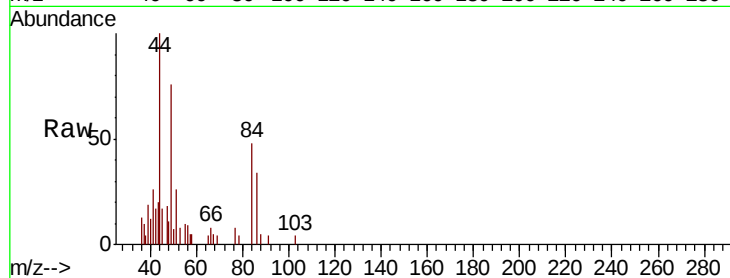




#20
Methvlene Chloride
Concen: 1.009 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

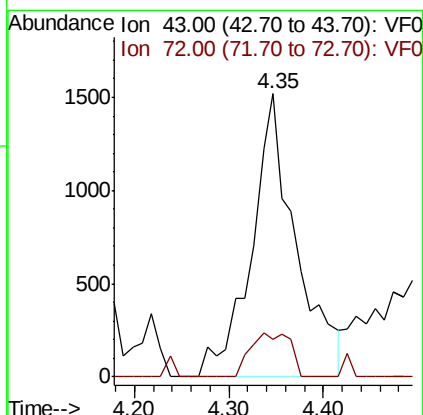
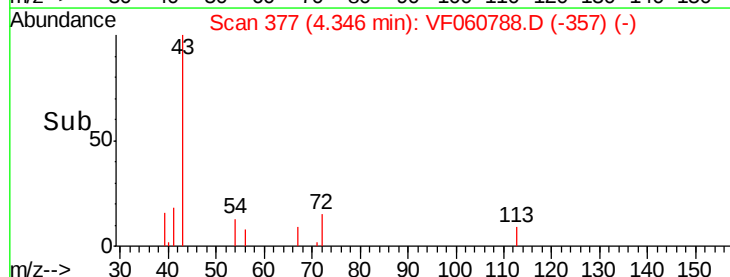
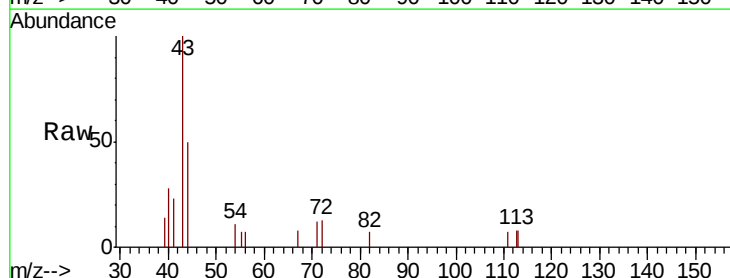
Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

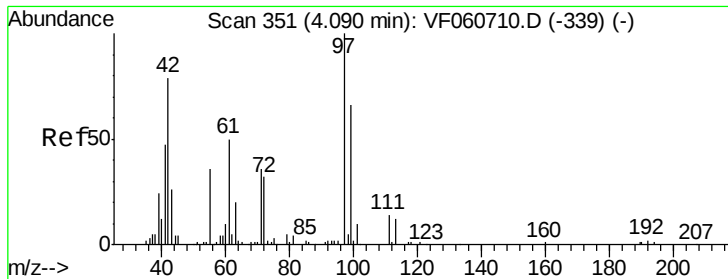
Tot Ion: 84 Resp: 4954
Ion Ratio Lower Upper
84 100
49 159.6 120.2 180.4
51 54.5 37.2 55.8
86 70.9 55.1 82.7



#25
2-Butanone
Concen: 7.718 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion: 43 Resp: 4963
Ion Ratio Lower Upper
43 100
72 13.4 16.1 24.1#





#29

Tetrahydrofuran

Concen: 3.265 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

SSI-20-TW-1

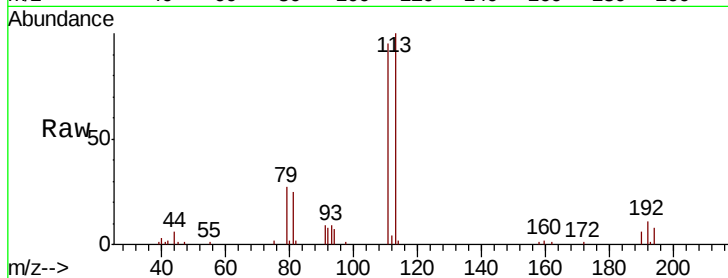
Tot Ion: 42 Resp: 866

Ion Ratio Lower Upper

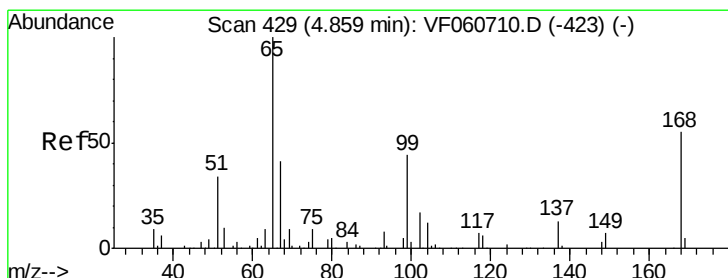
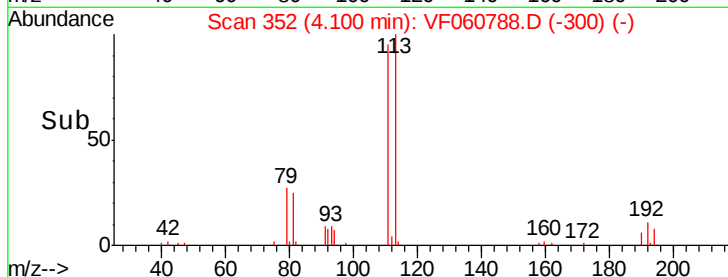
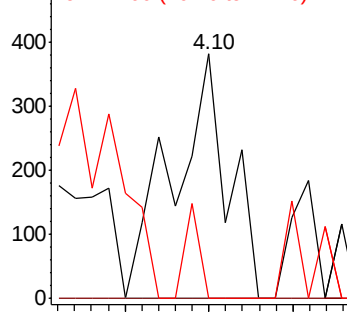
42 100

72 0.0 30.3 45.5#

71 10.2 32.2 48.2#



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: 48.560 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF060788.D

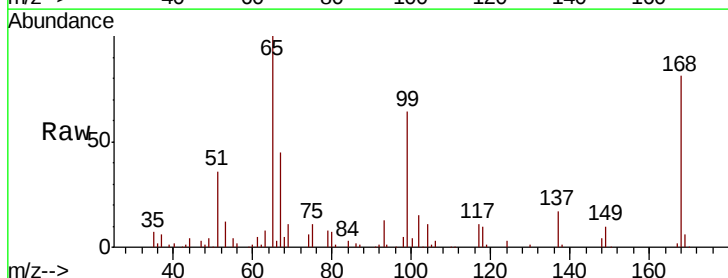
Acq: 19 Nov 2018 20:58

Tgt Ion: 65 Resp: 88820

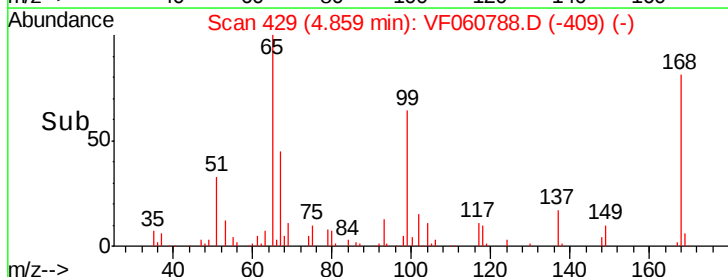
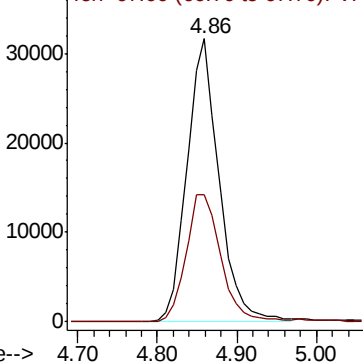
Ion Ratio Lower Upper

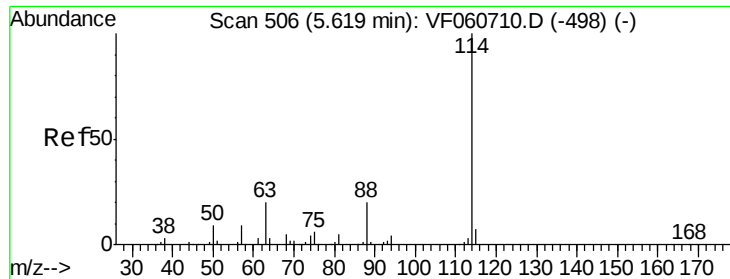
65 100

67 45.0 0.0 90.2



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

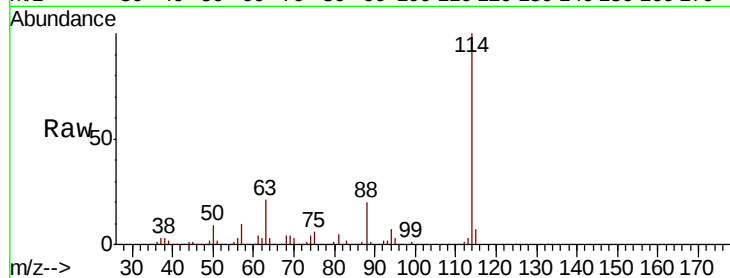




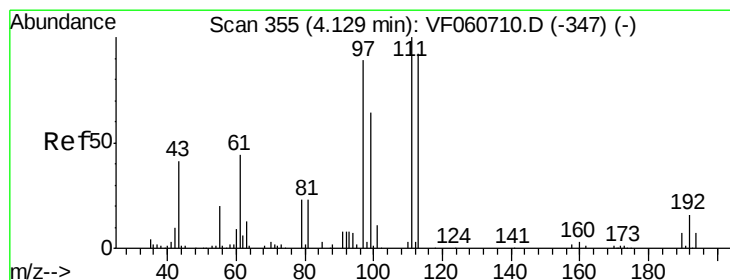
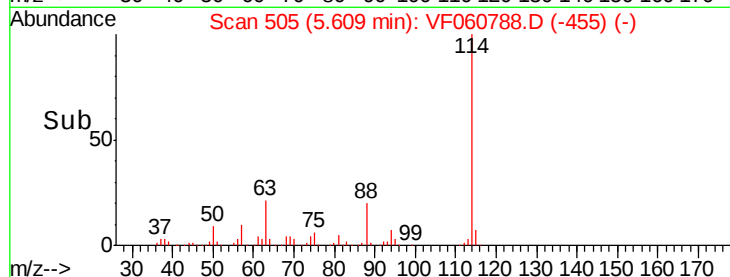
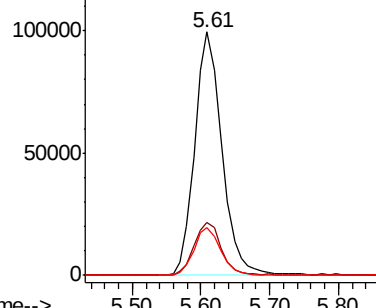
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-20-TW-1

Tot Ion:114	Resp:	273131
Ion Ratio	Lower	Upper
114 100		
63 21.5	0.0	40.8
88 19.5	0.0	39.6

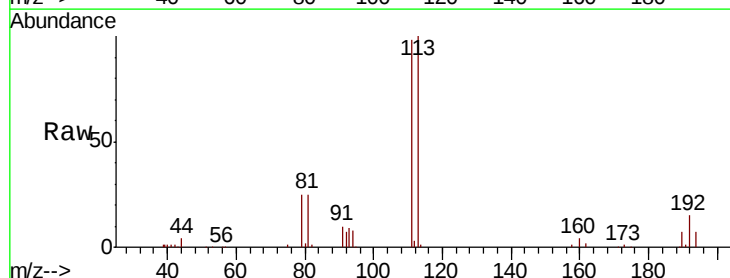


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

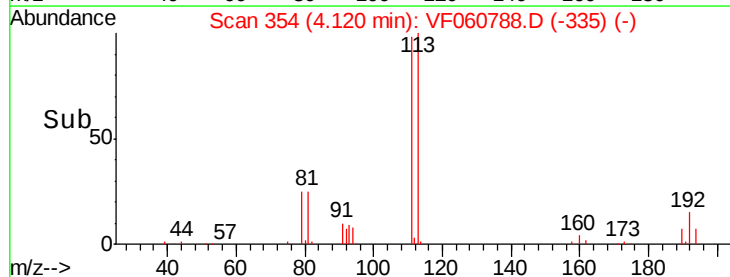
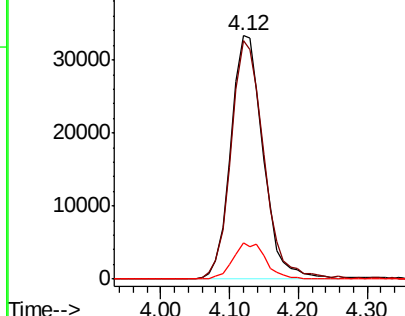


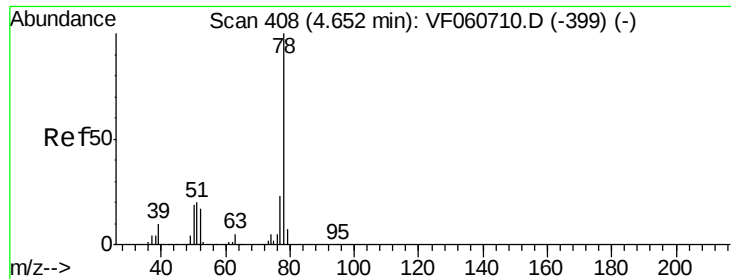
#35
 Dibromofluoromethane
 Concen: 52.920 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.01 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

Tgt Ion:113	Resp:	108651
Ion Ratio	Lower	Upper
113 100		
111 98.2	87.1	130.7
192 14.8	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





#40

Benzene

Concen: 2.086 ug/l

RT: 4.64 min Scan# 407

Delta R.T. -0.01 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

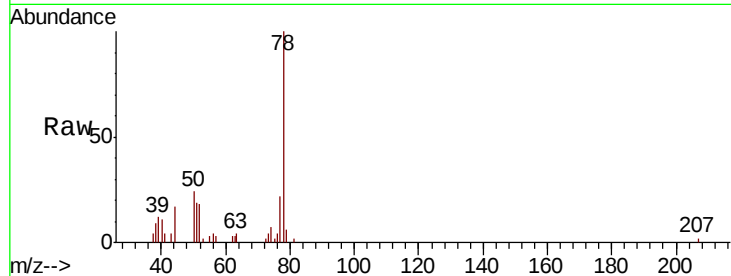
SSI-20-TW-1

Tot Ion: 78 Resp: 14733

Ion Ratio Lower Upper

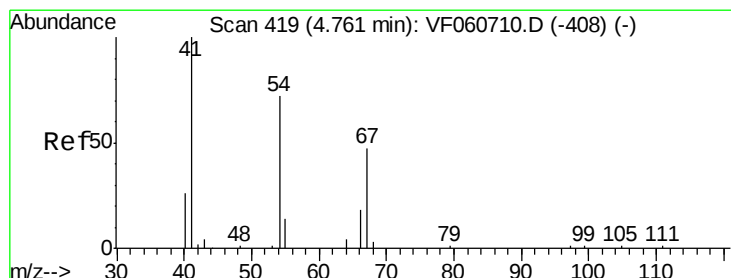
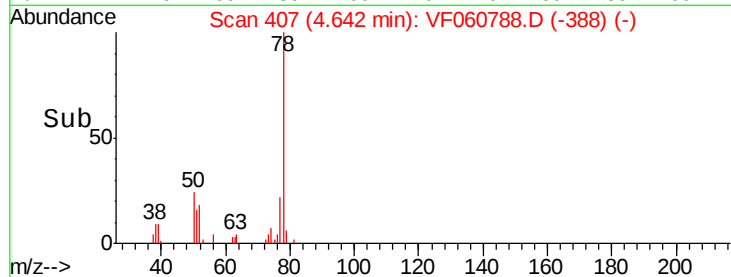
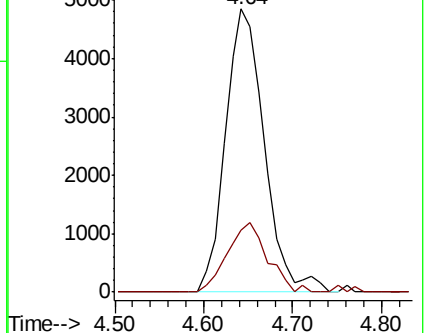
78 100

77 22.0 18.6 28.0



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.76 min Scan# 419

Delta R.T. 0.00 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Tgt Ion: 41 Resp: 1053

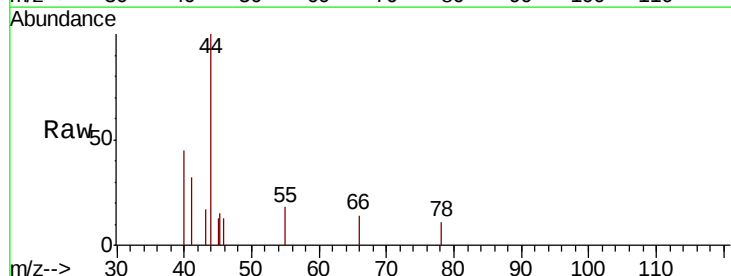
Ion Ratio Lower Upper

41 100

39 0.0 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

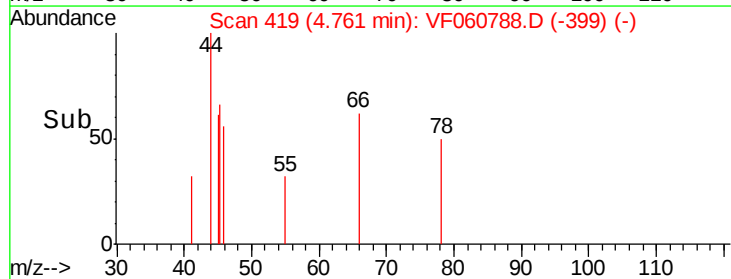
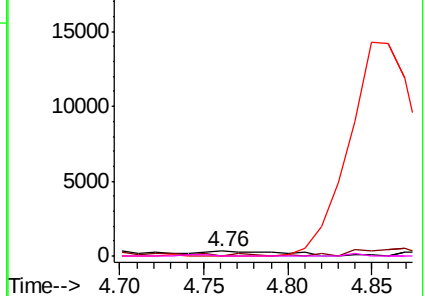


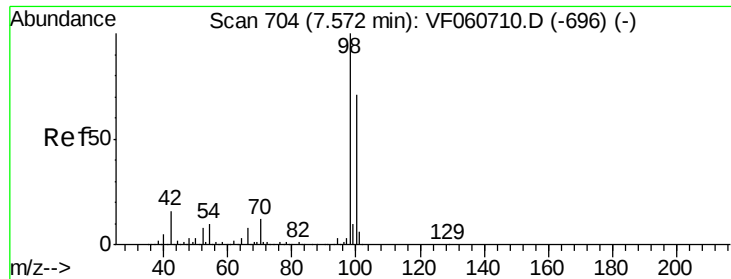
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

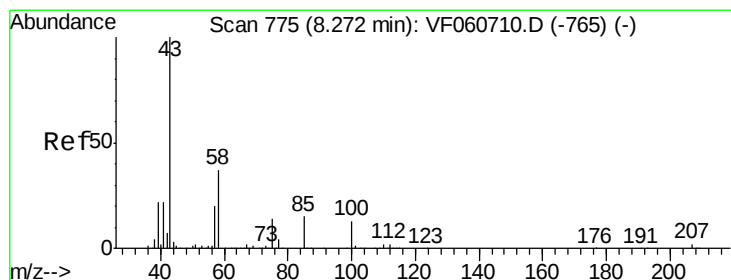
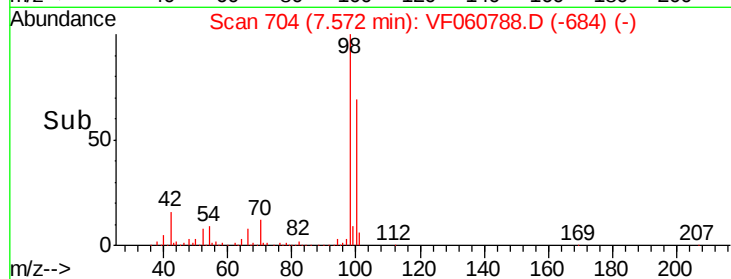
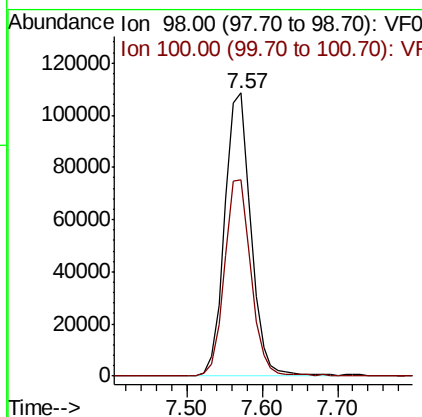
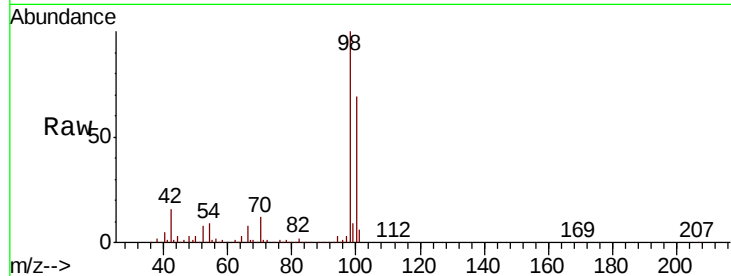




#50
Toluene-d8
Concen: 49.321 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

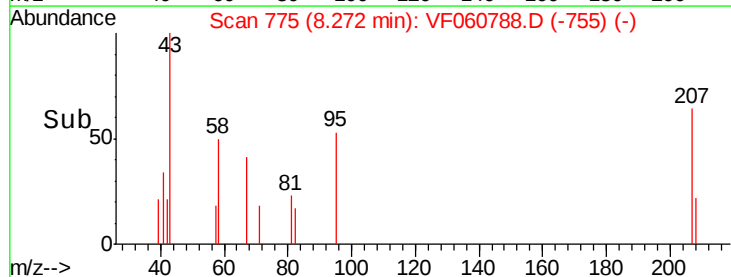
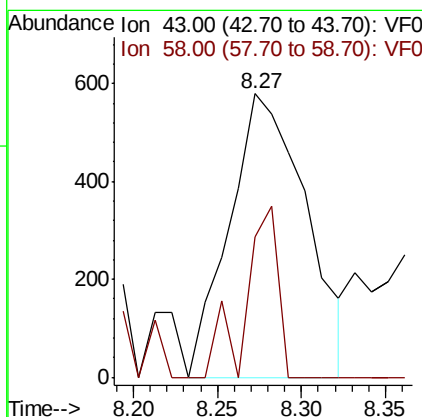
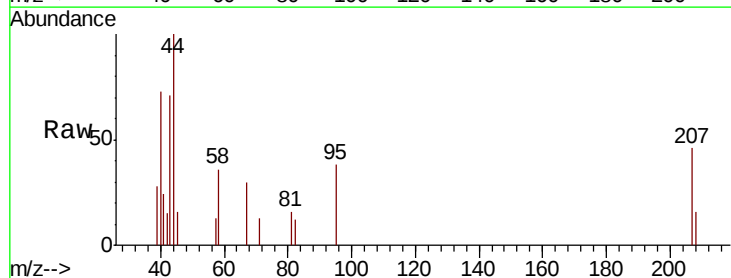
Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

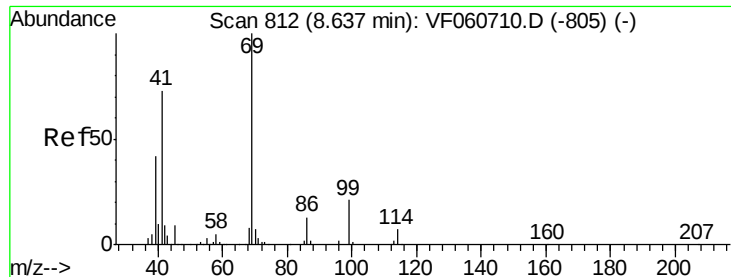
Tot Ion: 98 Resp: 260109
Ion Ratio Lower Upper
98 100
100 69.2 56.5 84.7



#51
4-Methyl-2-Pentanone
Concen: 1.628 ug/l
RT: 8.27 min Scan# 775
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion: 43 Resp: 1839
Ion Ratio Lower Upper
43 100
58 49.7 29.2 43.8#





#56

Ethyl methacrylate

Concen: 1.067 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.00 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

SSI-20-TW-1

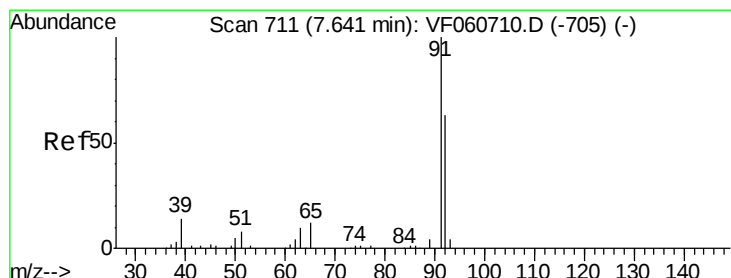
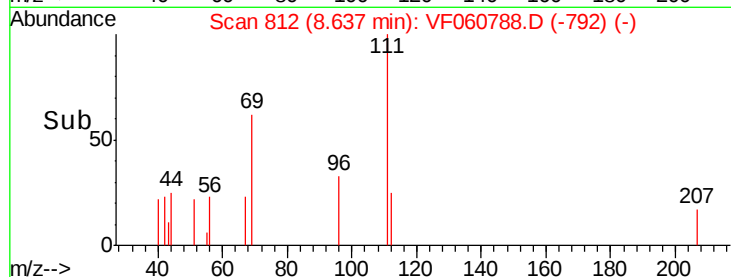
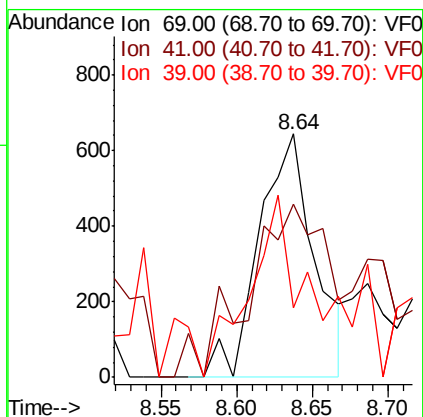
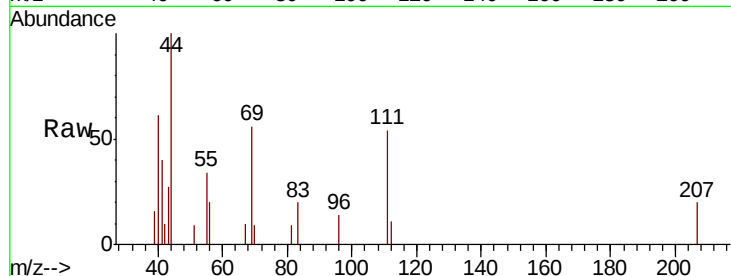
Tot Ion: 69 Resp: 1639

Ion Ratio Lower Upper

69 100

41 71.4 59.0 88.6

39 28.6 34.0 51.0#



#58

2-Chloroethyl Vinyl ether

Concen: 1.233 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF060788.D

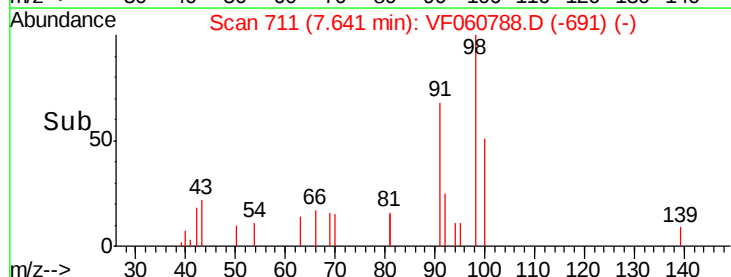
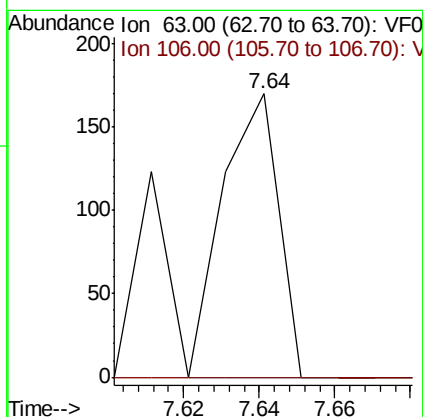
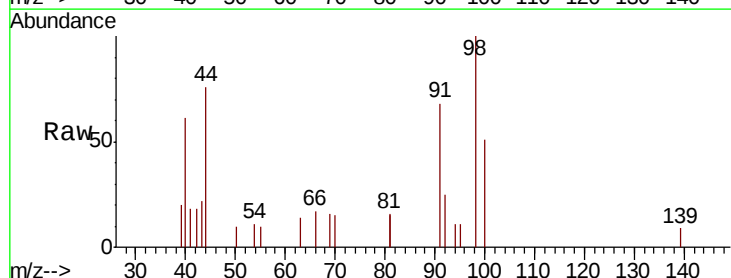
Acq: 19 Nov 2018 20:58

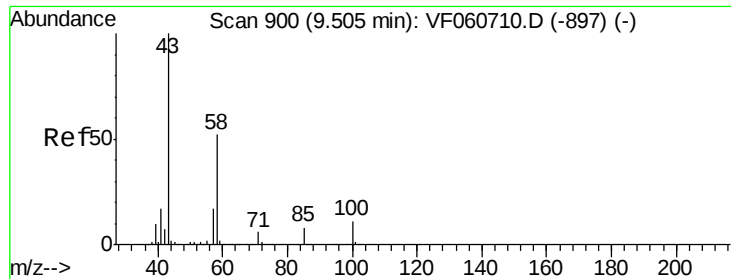
Tgt Ion: 63 Resp: 173

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

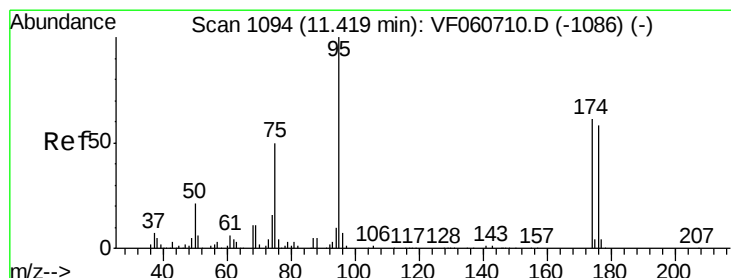
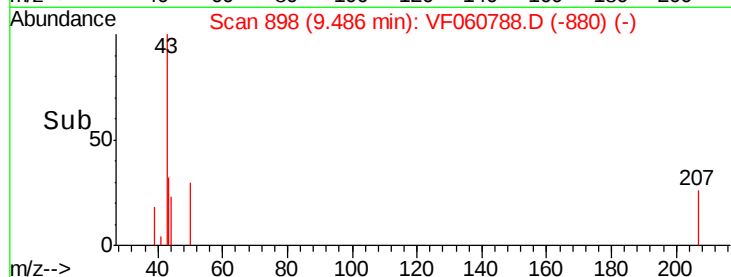
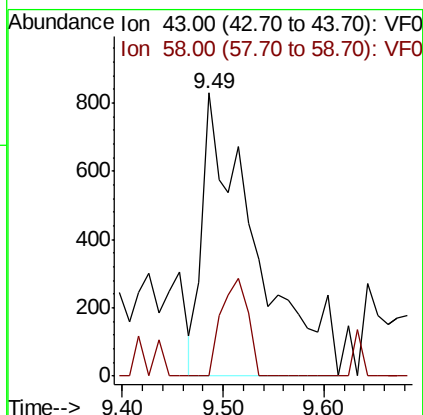
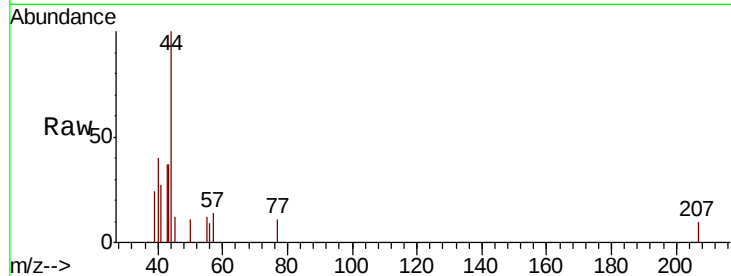




#59
2-Hexanone
Concen: 3.751 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.02 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

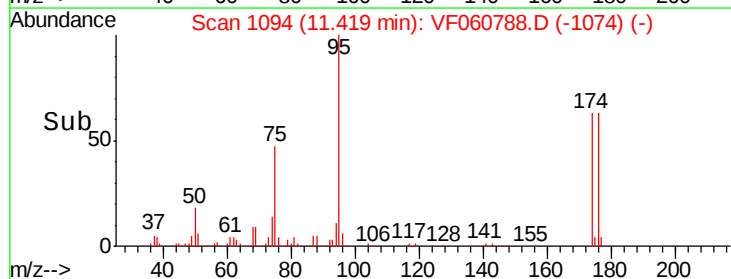
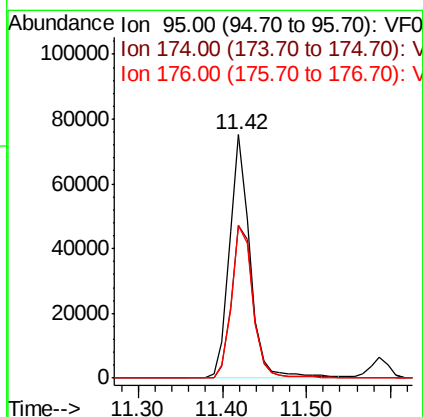
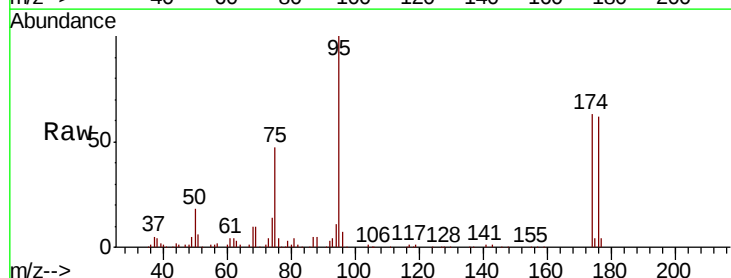
Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

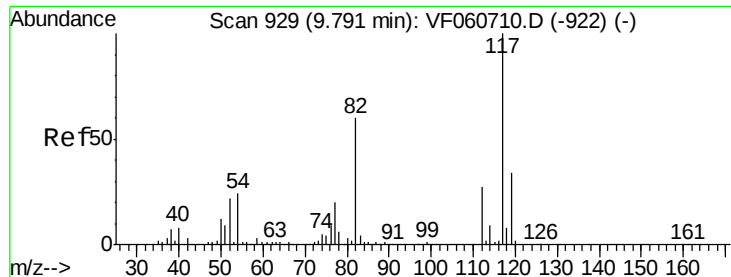
Tot Ion: 43 Resp: 2977
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.7#



#62
4-Bromofluorobenzene
Concen: 52.747 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion: 95 Resp: 127615
Ion Ratio Lower Upper
95 100
174 62.7 0.0 121.6
176 62.5 0.0 115.2

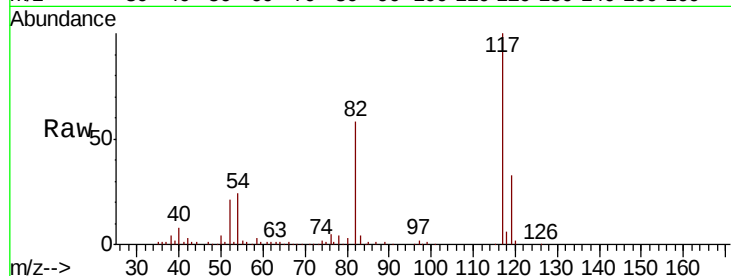




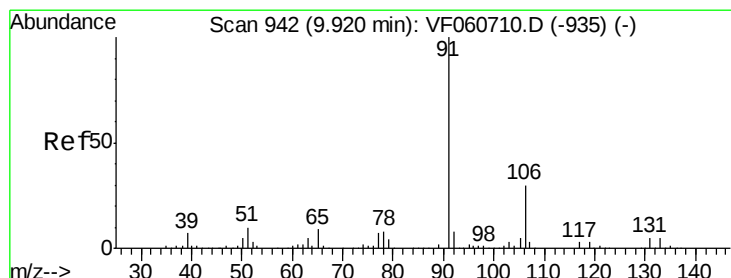
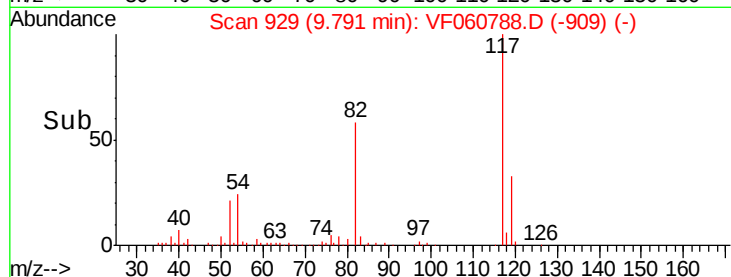
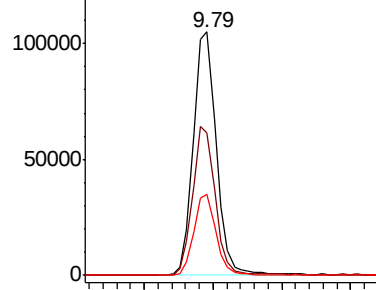
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.3	47.9	71.9
119	33.4	26.8	40.2

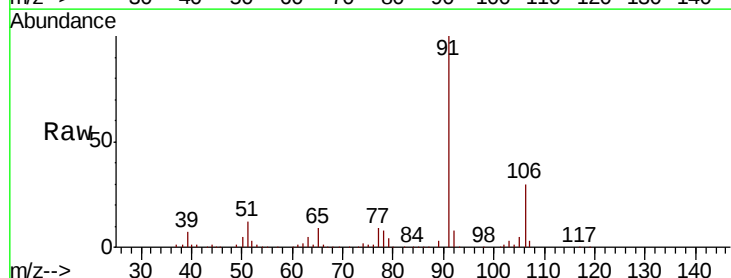


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

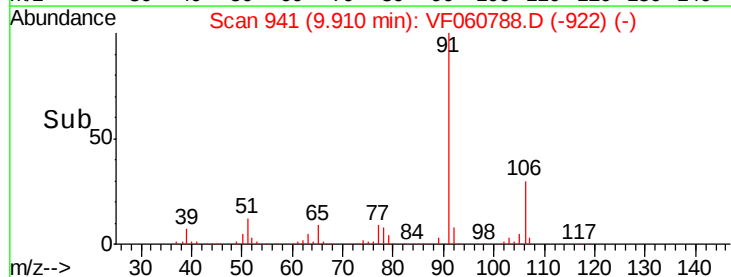
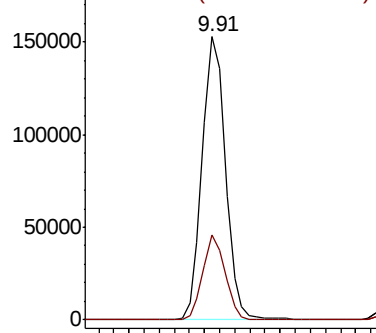


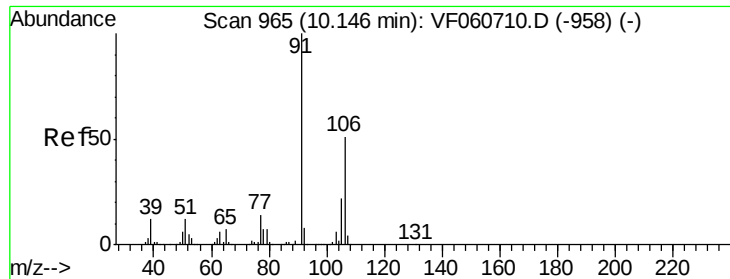
#67
Ethyl Benzene
Concen: 35.109 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V

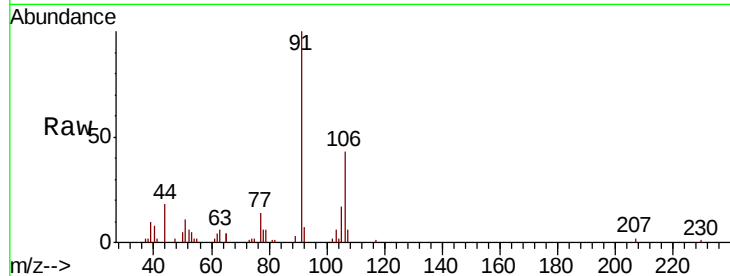




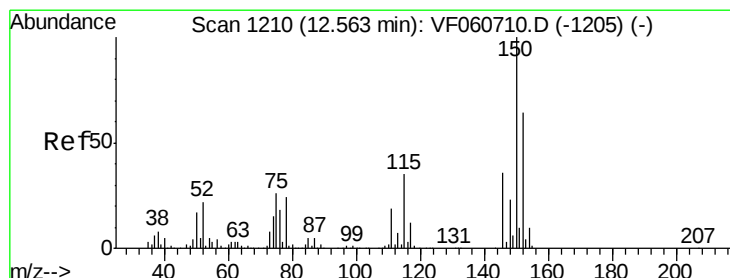
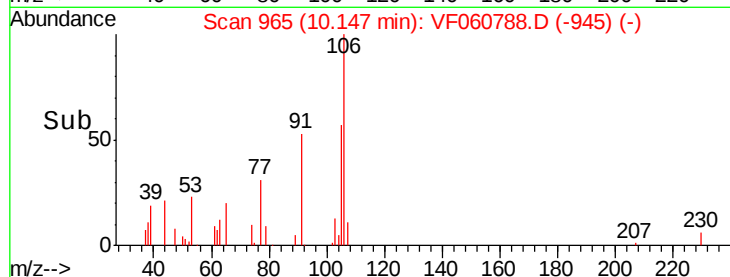
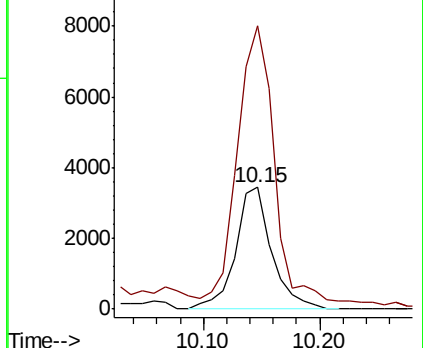
#68
m/p-Xvlenes
Concen: 2.225 ug/l
RT: 10.15 min Scan# 965
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

Tot Ion:106 Resp: 7405
Ion Ratio Lower Upper
106 100
91 232.0 158.2 237.2

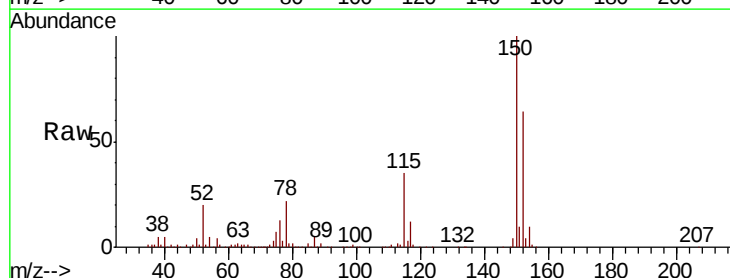


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

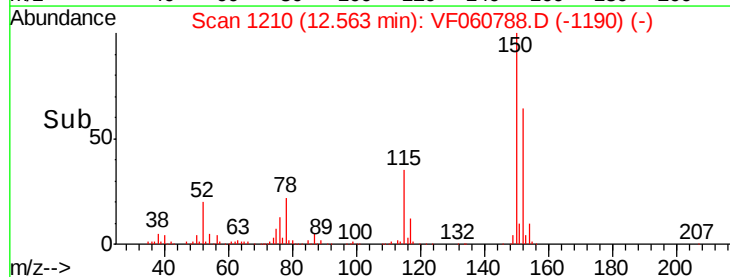
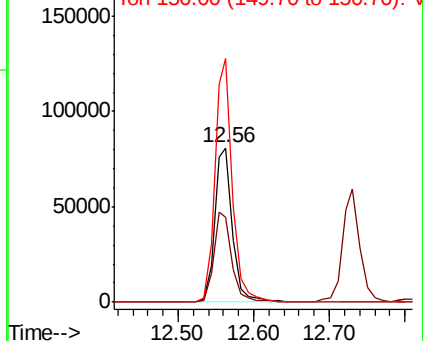


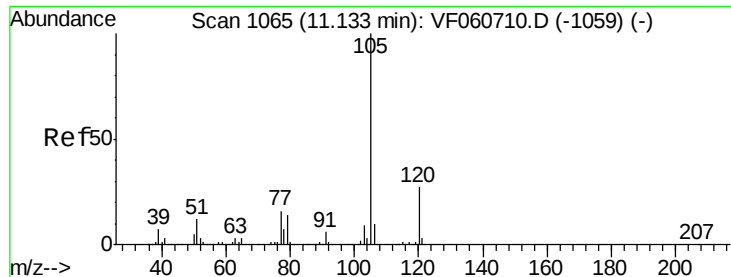
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion:152 Resp: 134045
Ion Ratio Lower Upper
152 100
115 54.7 27.9 83.7
150 157.5 0.0 316.4



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





#73

Isopropylbenzene

Concen: 4.760 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060788.D

Acq: 19 Nov 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

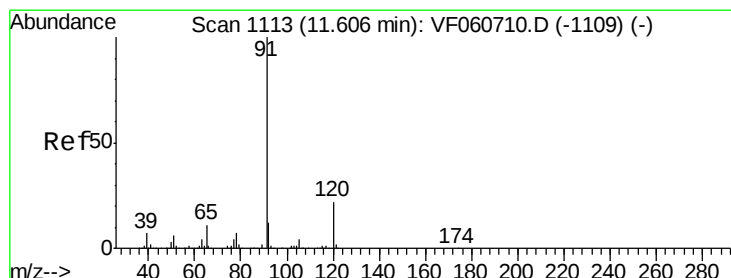
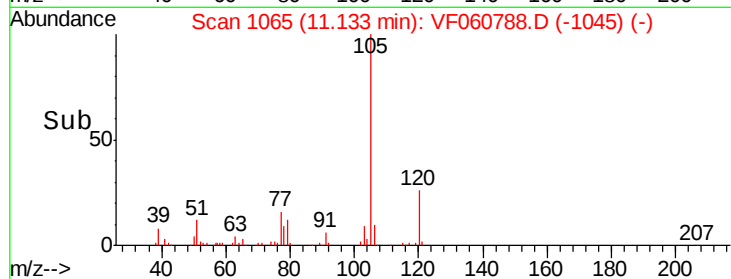
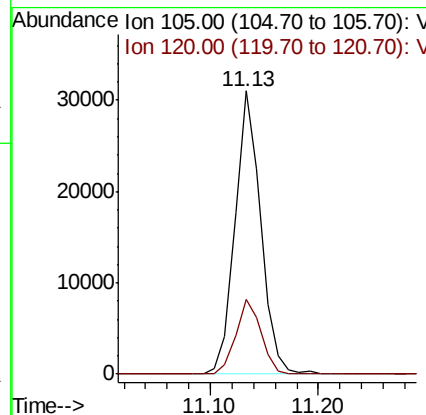
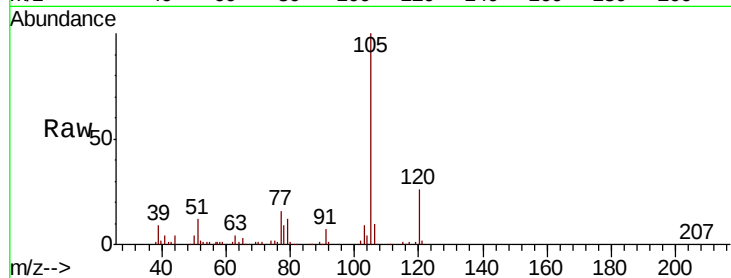
SSI-20-TW-1

Tot Ion:105 Resp: 51363

Ion Ratio Lower Upper

105 100

120 26.2 13.4 40.1



#78

n-propylbenzene

Concen: 14.088 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF060788.D

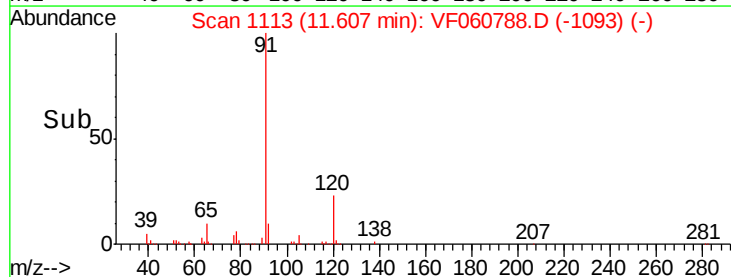
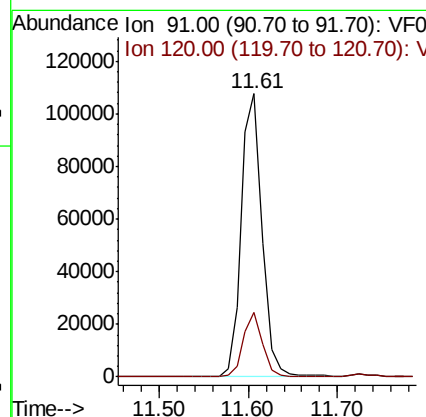
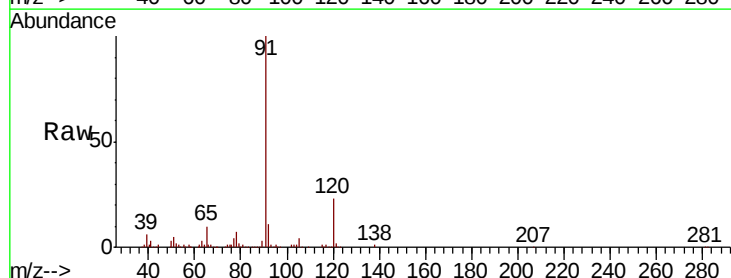
Acq: 19 Nov 2018 20:58

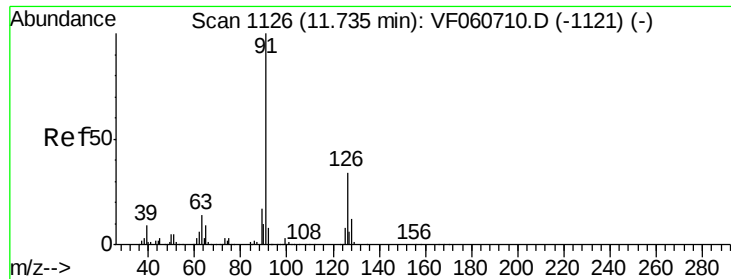
Tgt Ion: 91 Resp: 177284

Ion Ratio Lower Upper

91 100

120 22.8 11.2 33.5

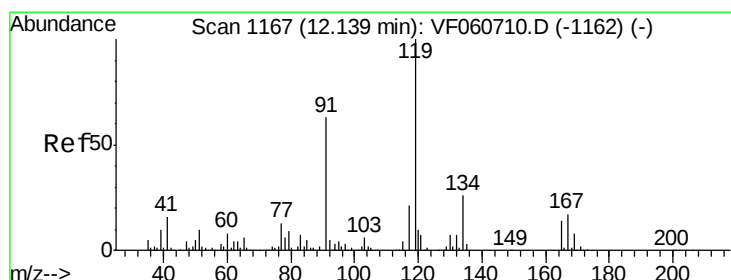
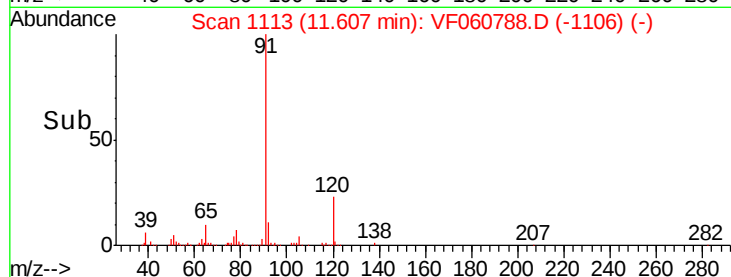
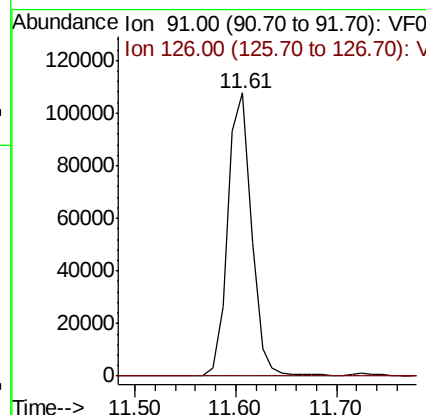
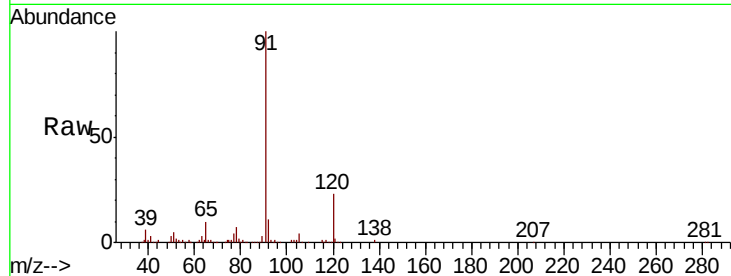




#79
 2-Chlorotoluene
 Concen: 24.041 ug/l
 RT: 11.61 min Scan# 1113
 Delta R.T. -0.13 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

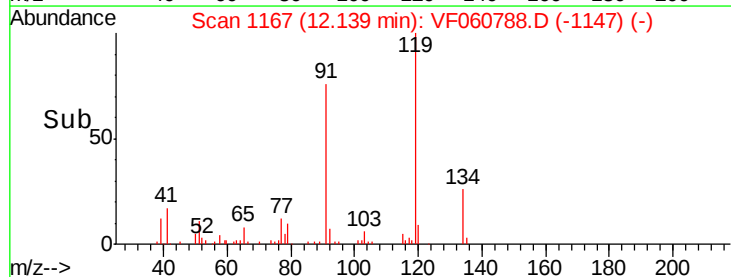
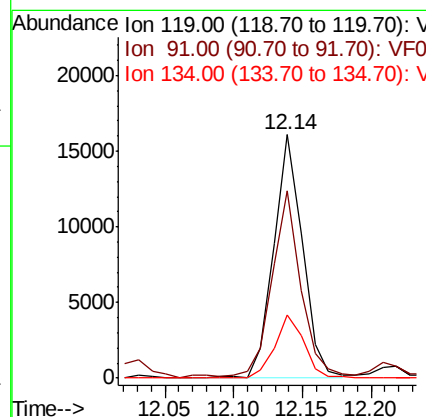
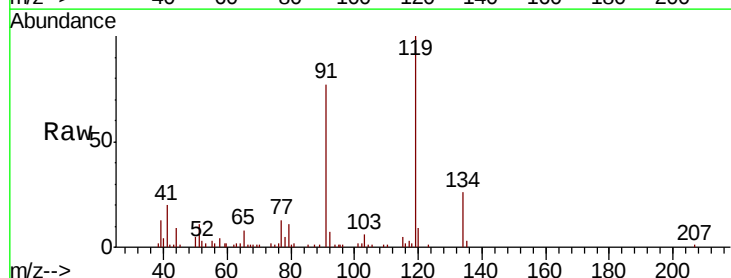
Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-20-TW-1

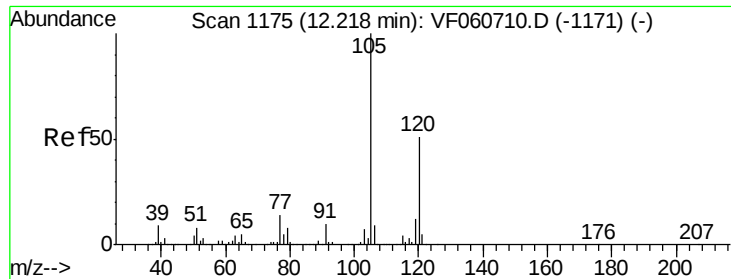
Tot Ion: 91 Resp: 175831
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.8 50.4#



#83
 tert-Butylbenzene
 Concen: 2.578 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

Tgt Ion: 119 Resp: 23443
 Ion Ratio Lower Upper
 119 100
 91 76.9 31.4 94.3
 134 25.8 12.8 38.4

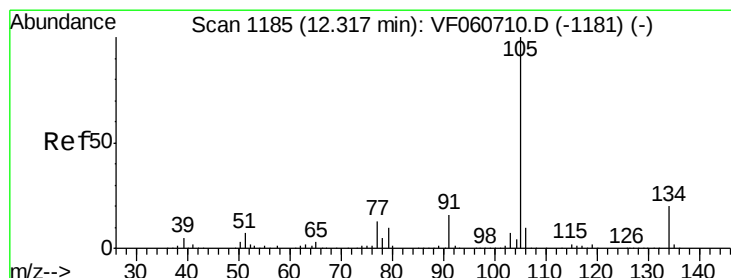
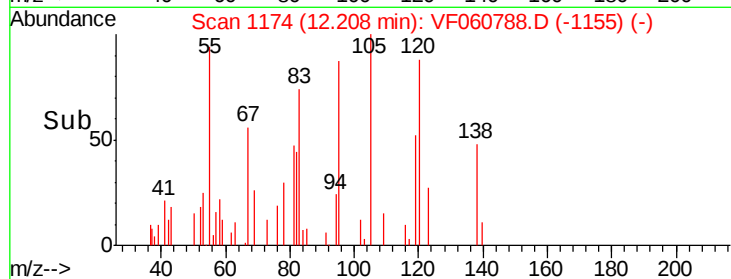
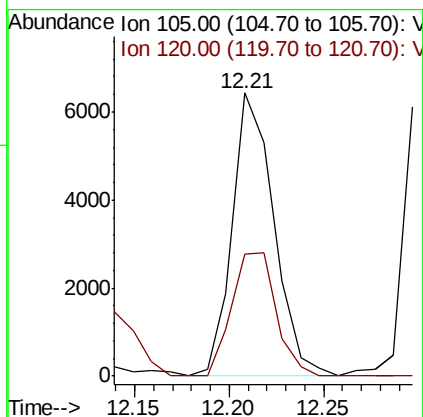
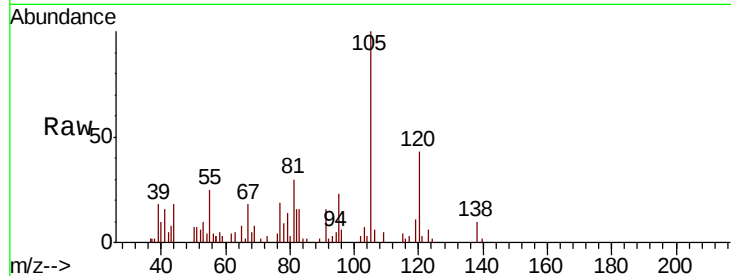




#84
 1,2,4-Trimethylbenzene
 Concen: 1.103 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

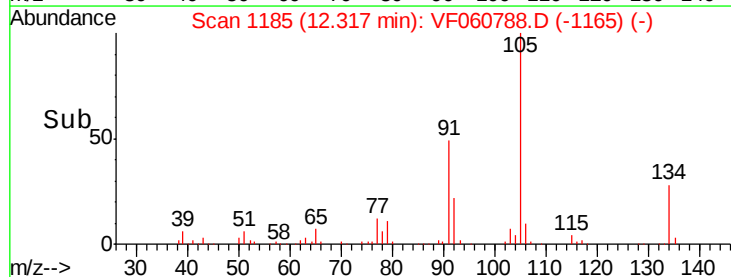
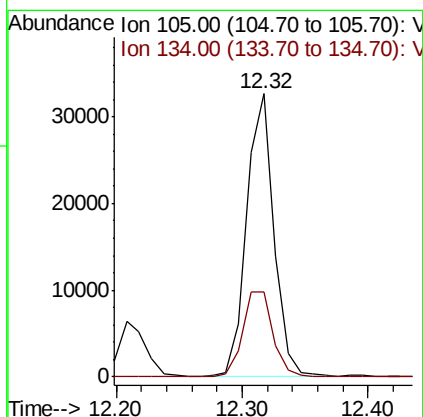
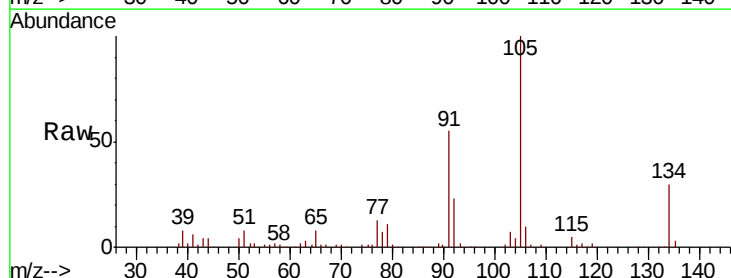
Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-20-TW-1

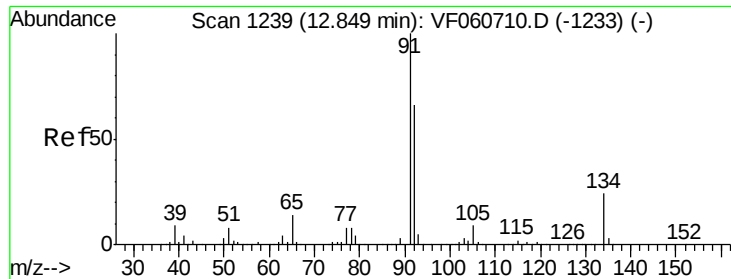
Tot Ion:105 Resp: 9774
 Ion Ratio Lower Upper
 105 100
 120 43.3 25.5 76.5



#85
 sec-Butylbenzene
 Concen: 3.983 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

Tgt Ion:105 Resp: 49138
 Ion Ratio Lower Upper
 105 100
 134 29.9 10.1 30.3

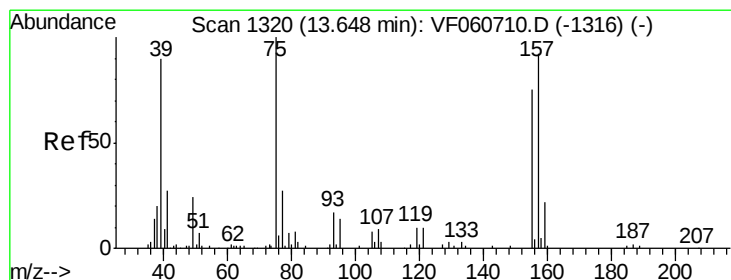
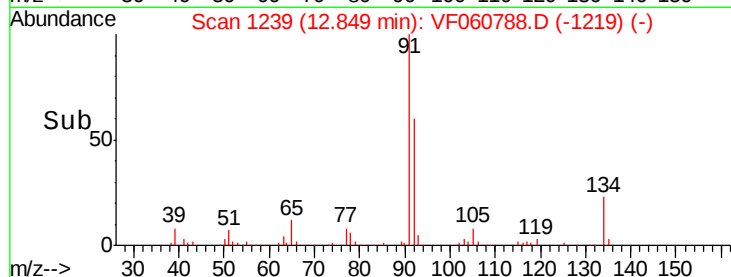
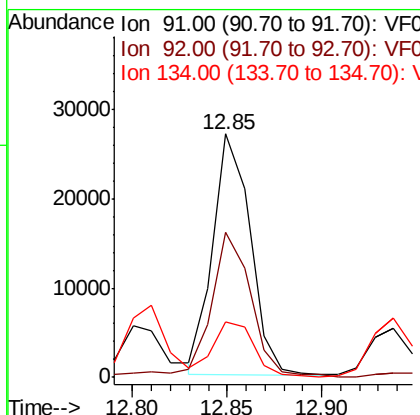
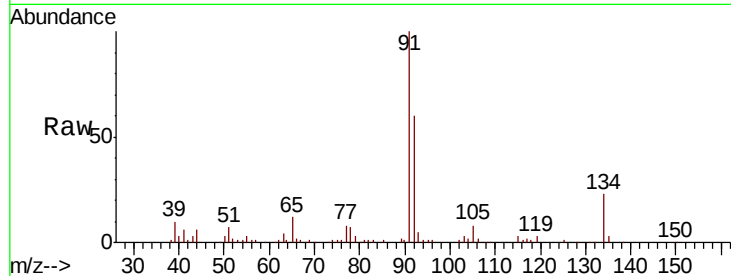




#89
n-Butylbenzene
Concen: 3.543 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

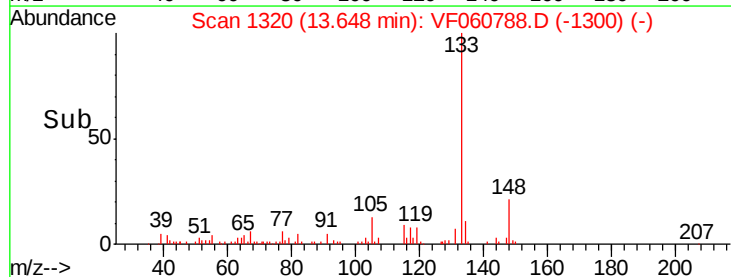
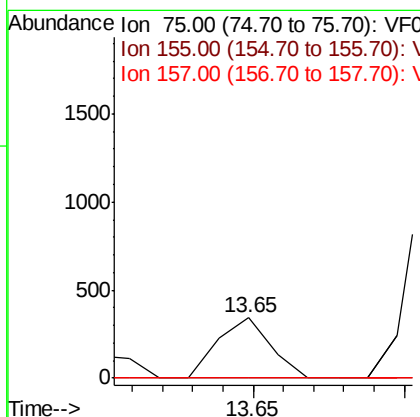
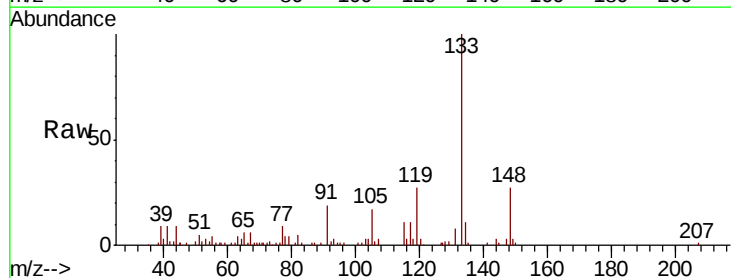
Instrument :
MSVOA_F
ClientSampleId :
SSI-20-TW-1

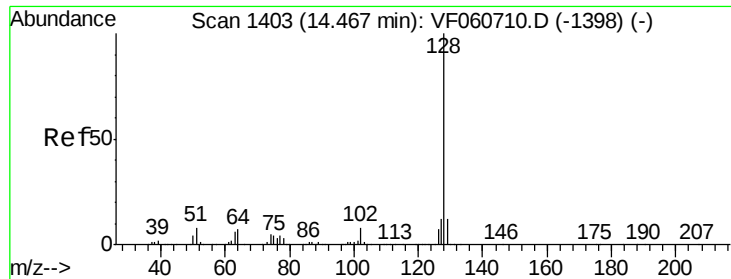
Tot Ion: 91 Resp: 37260
Ion Ratio Lower Upper
91 100
92 59.7 33.1 99.2
134 22.5 11.9 35.9



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.247 ug/l
RT: 13.65 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VF060788.D
Acq: 19 Nov 2018 20:58

Tgt Ion: 75 Resp: 418
Ion Ratio Lower Upper
75 100
155 0.0 37.4 112.2#
157 0.0 46.0 138.0#

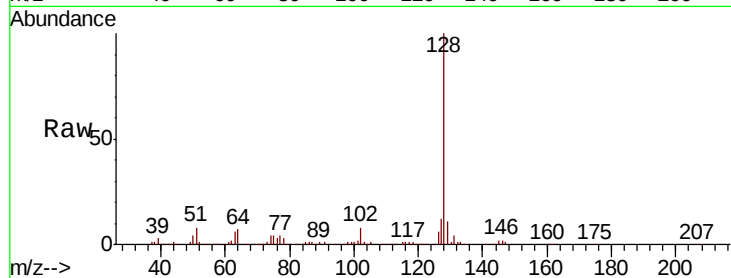




#95
 Naphthalene
 Concen: 36.890 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. 0.00 min
 Lab File: VF060788.D
 Acq: 19 Nov 2018 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 SSI-20-TW-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.6
129	11.3	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

