

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060770.D
 Acq On : 16 Nov 2018 17:55
 Operator : VA/AP
 Sample : J5964-01RE
 Misc : 6.78g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LR-RBR-200036RE

Quant Time: Nov 17 04:23:43 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

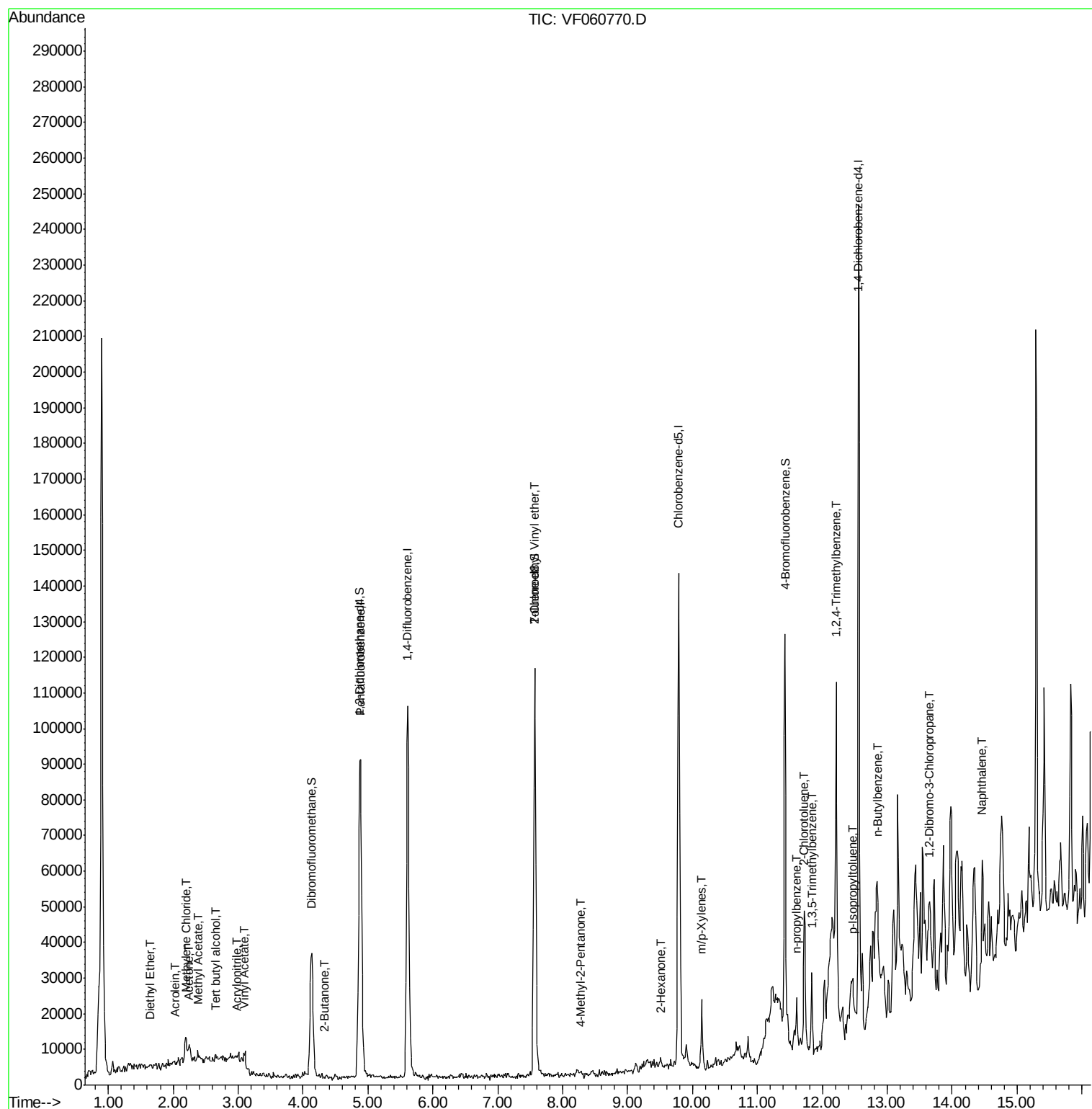
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	72066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	116313	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	100998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	55721	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	27298	33.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.42%	
35) Dibromofluoromethane	4.13	113	33503	38.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.64%	
50) Toluene-d8	7.57	98	96088	42.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.52%	
62) 4-Bromofluorobenzene	11.42	95	43464	41.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.60%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.65	74	275	1.357	ug/l	76
11) Tert butyl alcohol	2.66	59	67	1.791	ug/l #	1
13) Acrolein	2.01	56	476	13.916	ug/l #	23
15) Acrylonitrile	2.98	53	1095	13.736	ug/l #	78
16) Acetone	2.25	43	5928	33.740	ug/l #	80
18) Methyl Acetate	2.38	43	1068	3.702	ug/l #	64
20) Methylene Chloride	2.20	84	3017	2.446	ug/l	91
23) Vinyl Acetate	3.09	43	1509	1.611	ug/l #	77
25) 2-Butanone	4.33	43	1146	3.966	ug/l #	56
41) Methacrylonitrile	4.75	41	429	Below Cal	#	52
51) 4-Methyl-2-Pentanone	8.27	43	2829	5.883	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.57	63	97	1.624	ug/l	100
59) 2-Hexanone	9.50	43	1789	5.293	ug/l #	59
68) m/p-Xylenes	10.15	106	3188	2.322	ug/l	99
78) n-propylbenzene	11.60	91	10513	2.010	ug/l	92
79) 2-Chlorotoluene	11.72	91	3893	1.280	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.84	105	12402	3.483	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	38127	10.353	ug/l	92
86) p-Isopropyltoluene	12.47	119	4754	1.110	ug/l #	79
89) n-Butylbenzene	12.85	91	10312	2.359	ug/l #	80
92) 1,2-Dibromo-3-Chloropropan	13.64	75	1129	8.101	ug/l #	1
95) Naphthalene	14.46	128	17626	7.683	ug/l	97

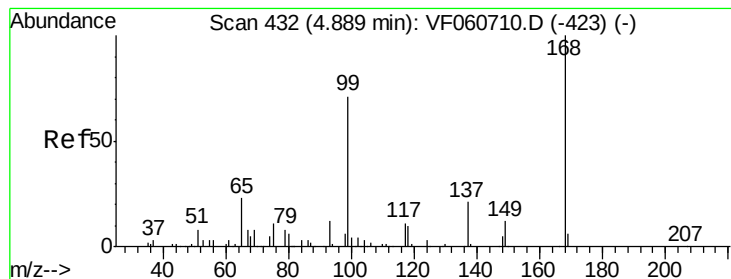
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060770.D

Acq: 16 Nov 2018 17:55

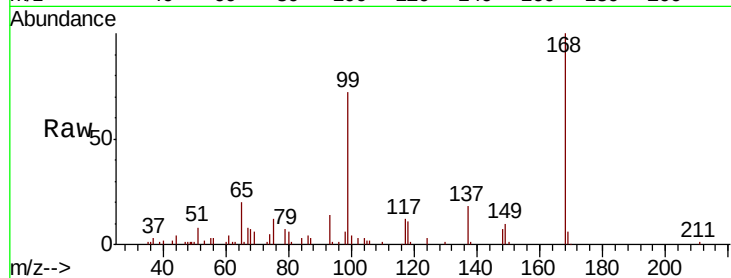
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

Tot Ion:168 Resp: 72066

Ion Ratio Lower Upper

168 100

99 72.1 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

25000

20000

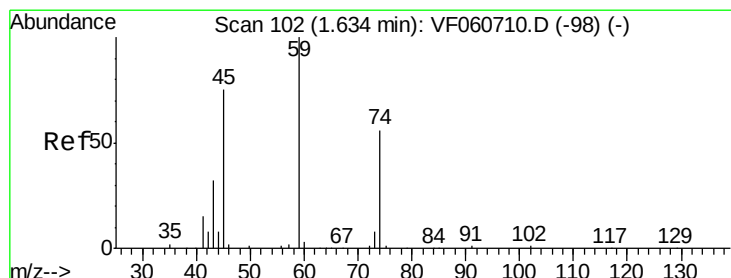
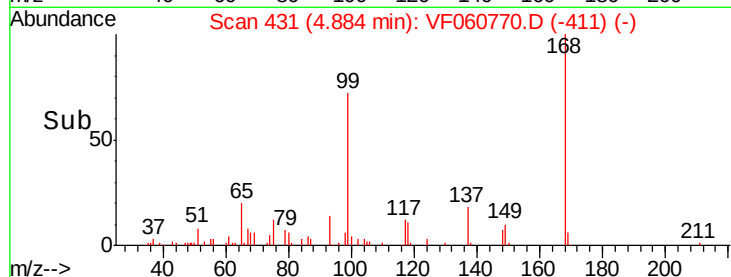
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.357 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF060770.D

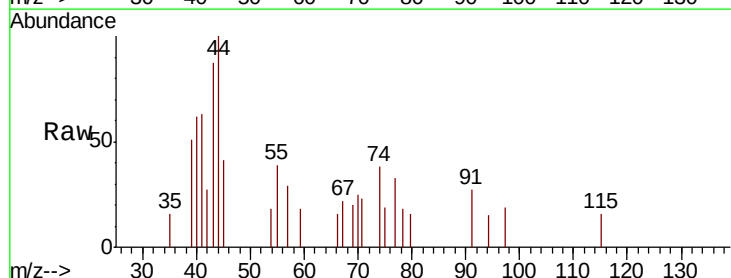
Acq: 16 Nov 2018 17:55

Tgt Ion: 74 Resp: 275

Ion Ratio Lower Upper

74 100

45 107.1 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

400

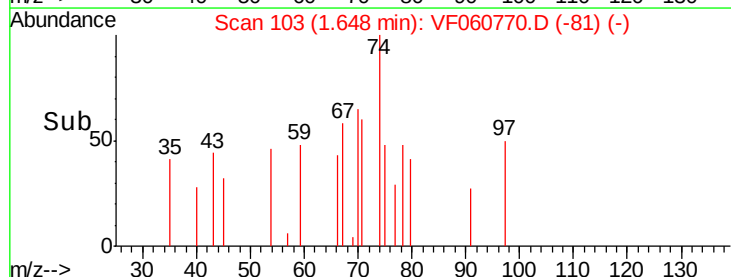
300

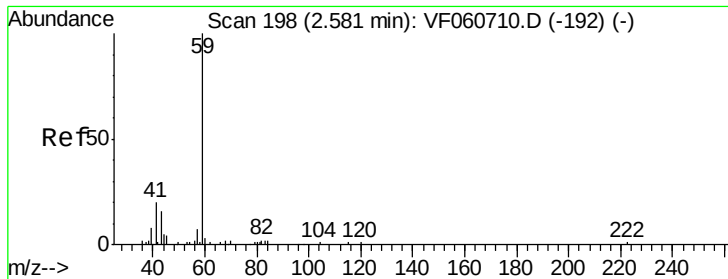
200

100

0

Time--> 1.60 1.62 1.64 1.66 1.68

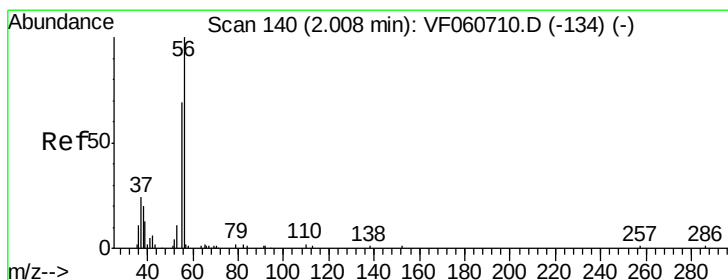
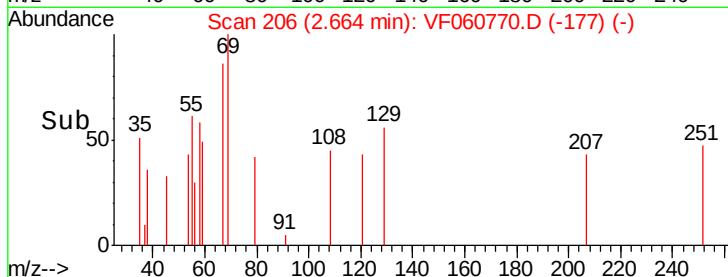
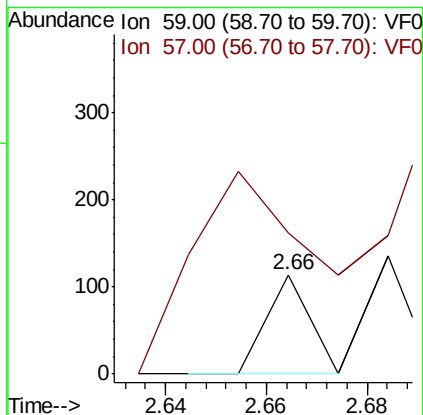
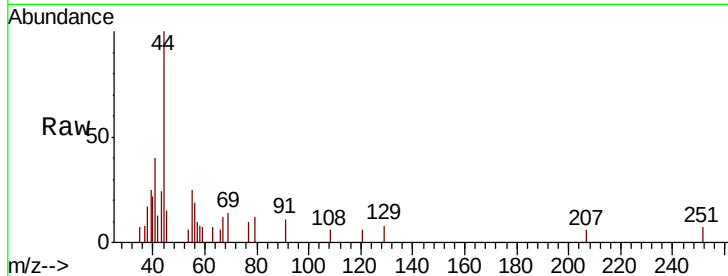




#11
Tert butyl alcohol
Concen: 1.791 ug/l
RT: 2.66 min Scan# 206
Delta R.T. 0.08 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

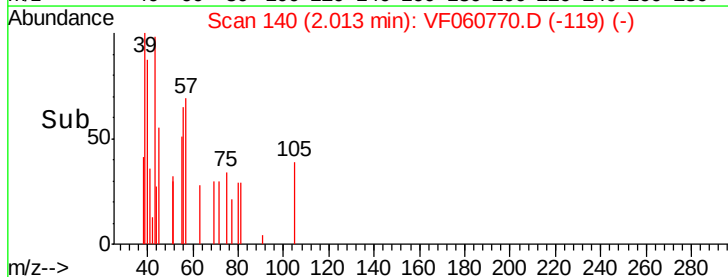
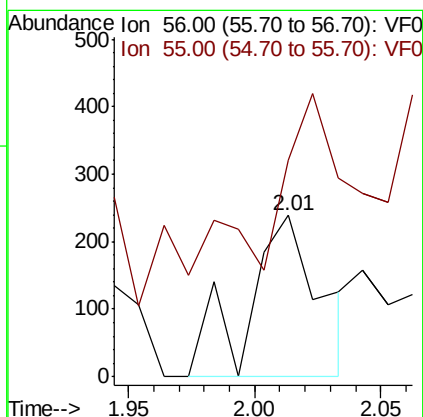
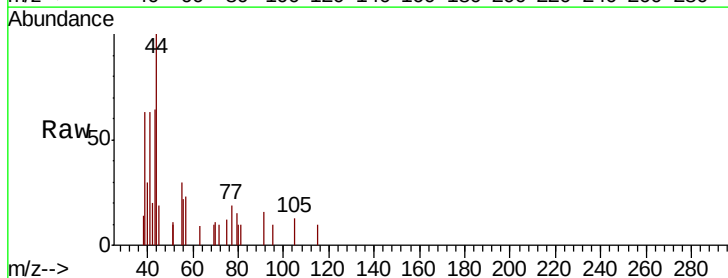
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

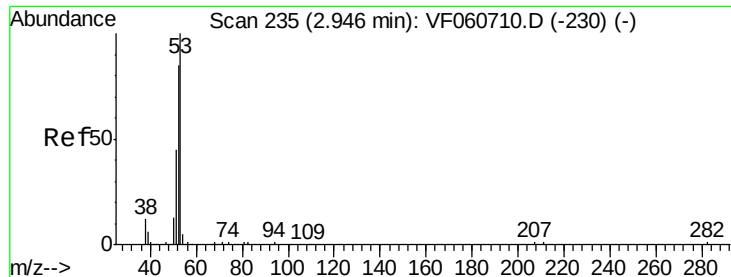
Tot Ion: 59 Resp: 67
Ion Ratio Lower Upper
59 100
57 142.1 10.5 15.7#



#13
Acrolein
Concen: 13.916 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

Tgt Ion: 56 Resp: 476
Ion Ratio Lower Upper
56 100
55 134.3 56.6 85.0#





#15

Acrylonitrile

Concen: 13.736 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.03 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

LR-RBR-200036RE

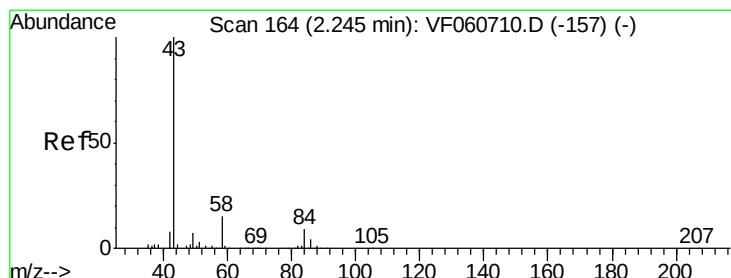
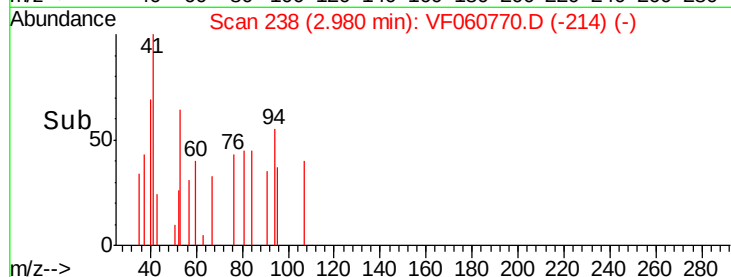
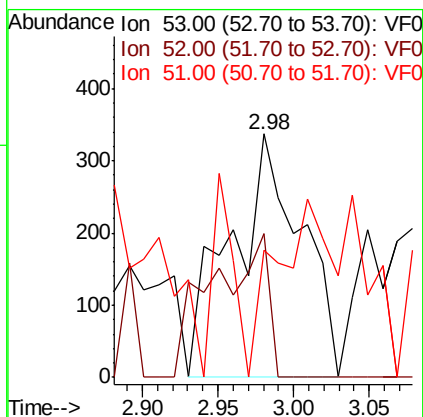
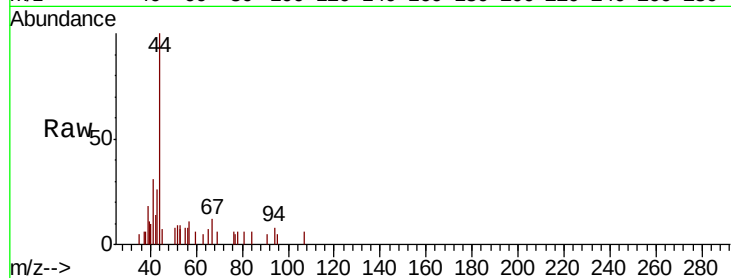
Tot Ion: 53 Resp: 1095

Ion Ratio Lower Upper

53 100

52 59.3 68.8 103.2#

51 52.5 36.7 55.1



#16

Acetone

Concen: 33.740 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.00 min

Lab File: VF060770.D

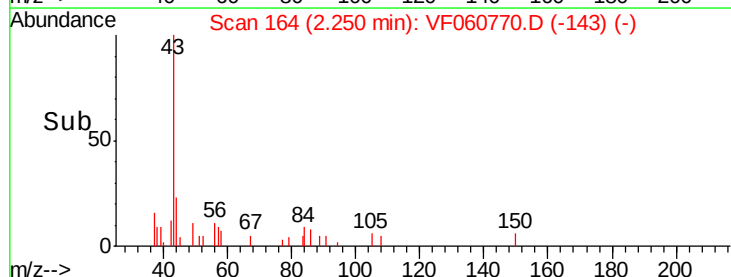
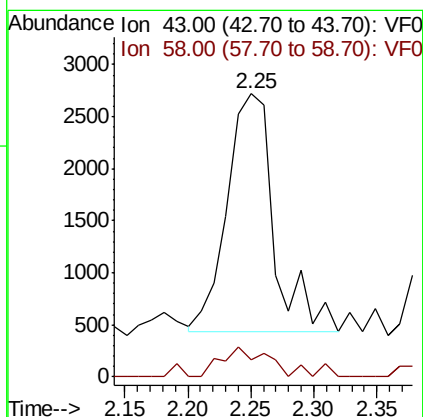
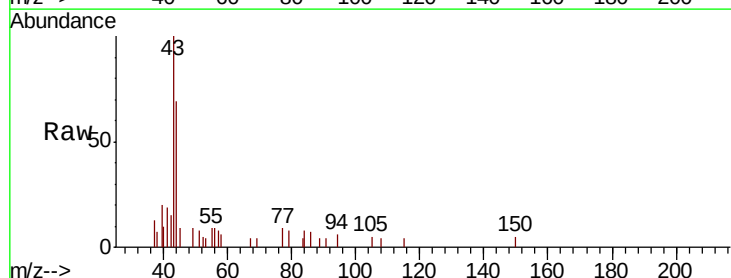
Acq: 16 Nov 2018 17:55

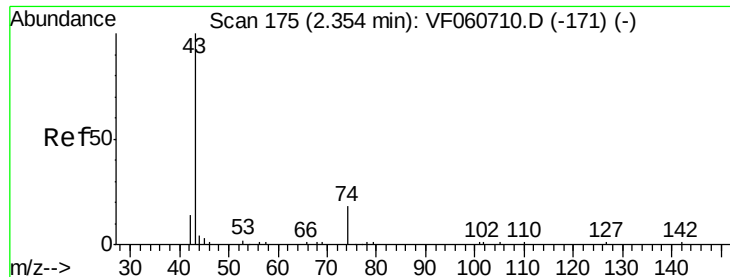
Tgt Ion: 43 Resp: 5928

Ion Ratio Lower Upper

43 100

58 6.1 11.6 17.4#

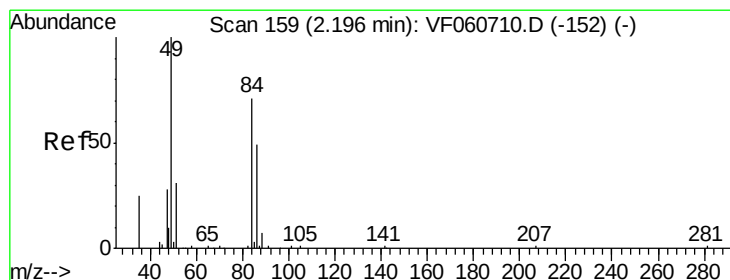
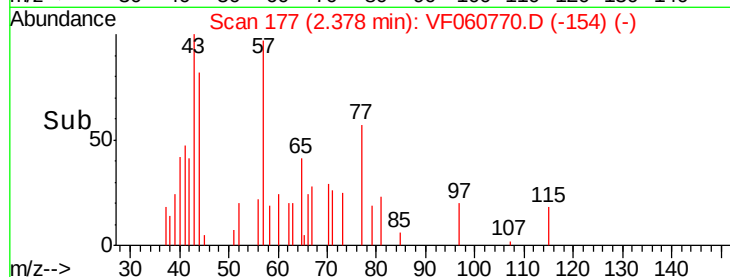
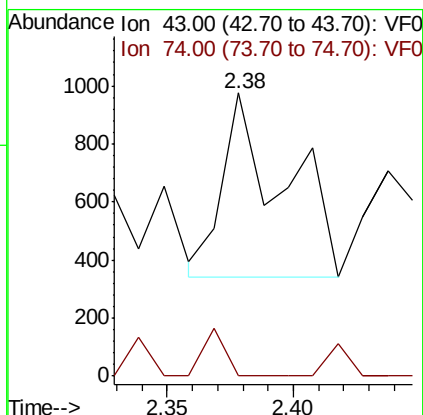
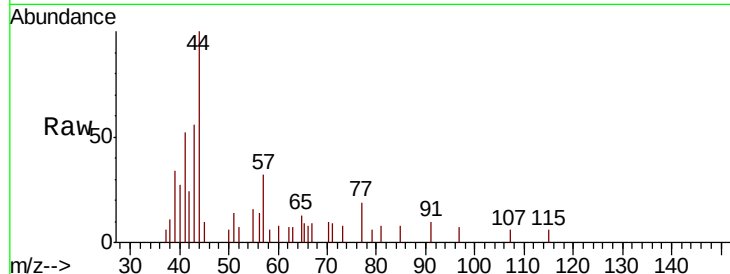




#18
Methyl Acetate
Concen: 3.702 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

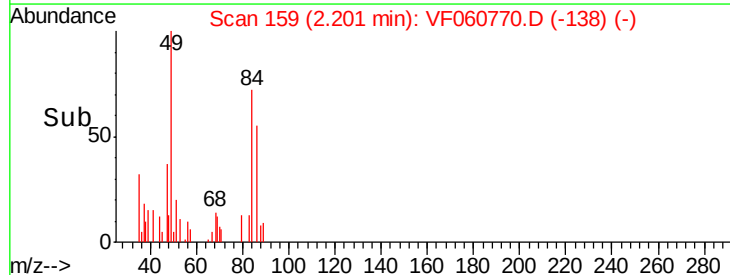
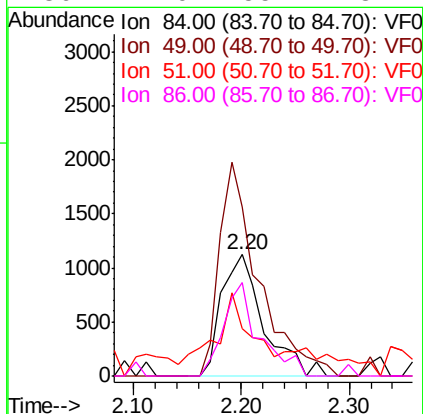
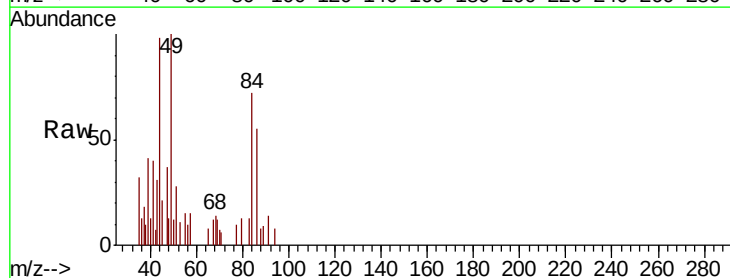
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

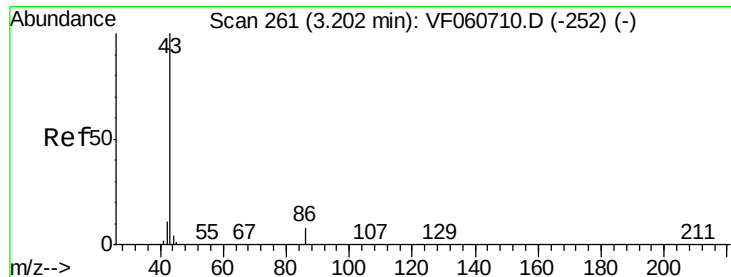
Tot Ion: 43 Resp: 1068
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: 2.446 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

Tgt Ion: 84 Resp: 3017
Ion Ratio Lower Upper
84 100
49 139.3 120.2 180.4
51 39.4 37.2 55.8
86 77.0 55.1 82.7





#23

Vinyl Acetate

Concen: 1.611 ug/l

RT: 3.09 min Scan# 249

Delta R.T. -0.11 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

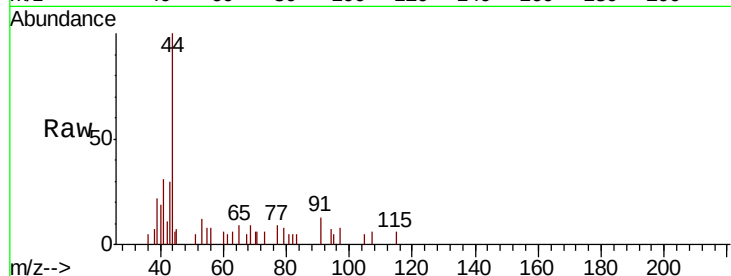
LR-RBR-200036RE

Tot Ion: 43 Resp: 1509

Ion Ratio Lower Upper

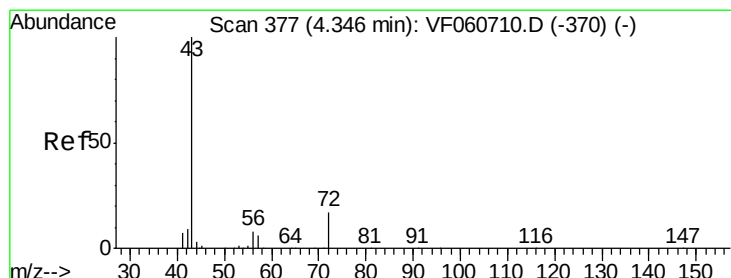
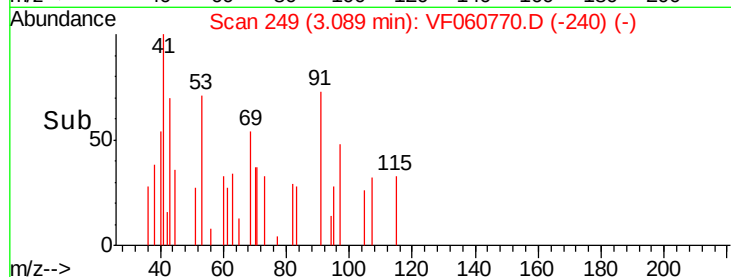
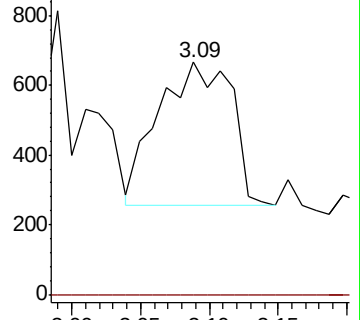
43 100

86 0.0 6.4 9.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 3.966 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF060770.D

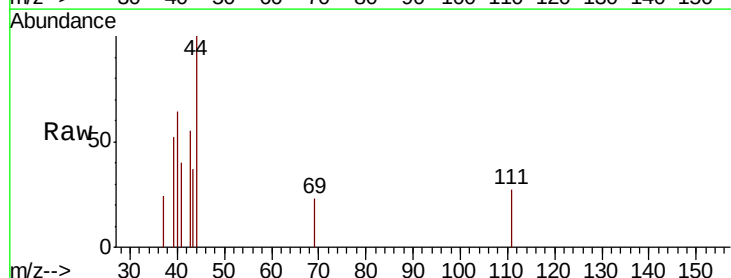
Acq: 16 Nov 2018 17:55

Tgt Ion: 43 Resp: 1146

Ion Ratio Lower Upper

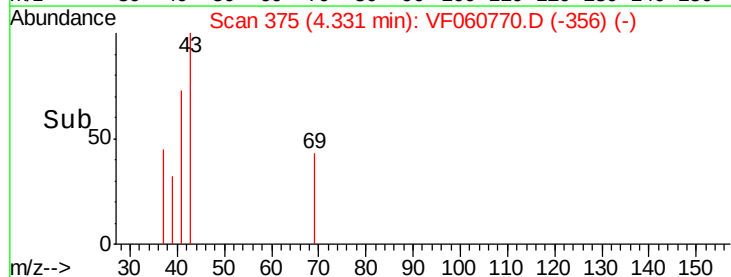
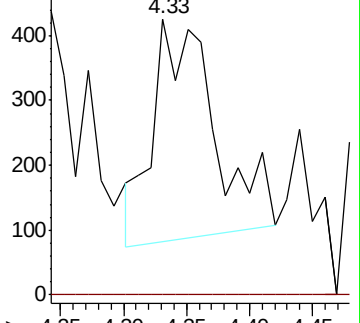
43 100

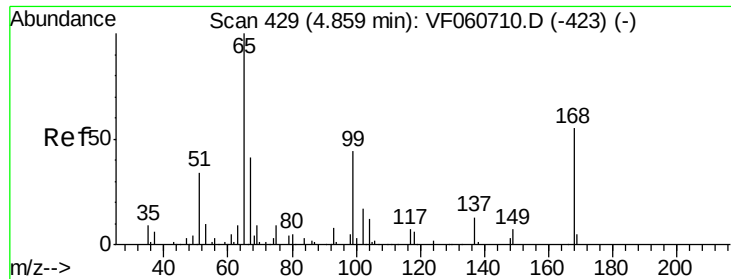
72 0.0 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

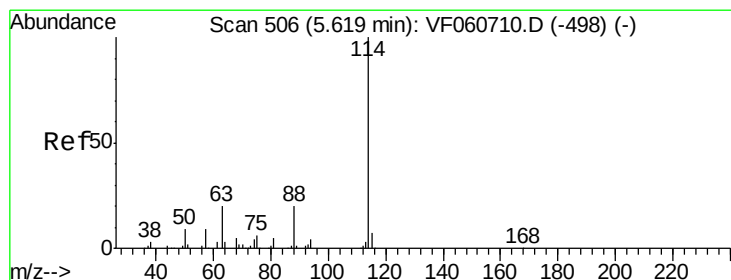
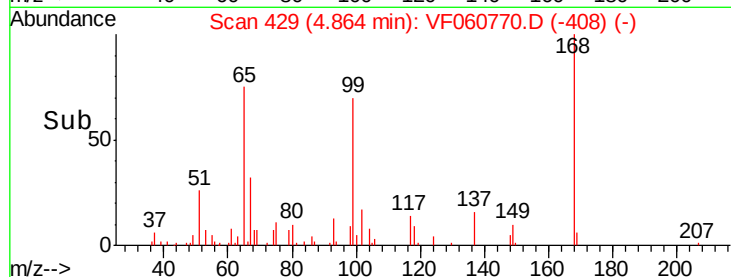
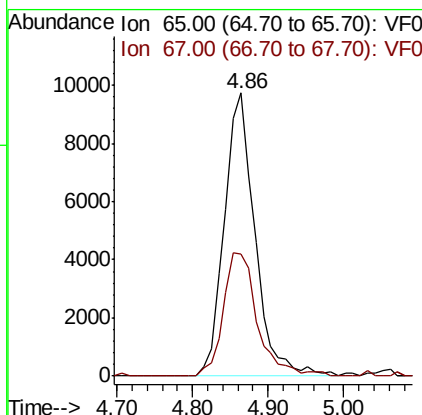
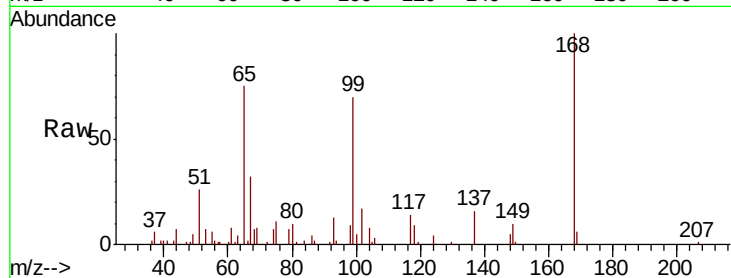




#33
 1,2-Dichloroethane-d4
 Concen: 33.209 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

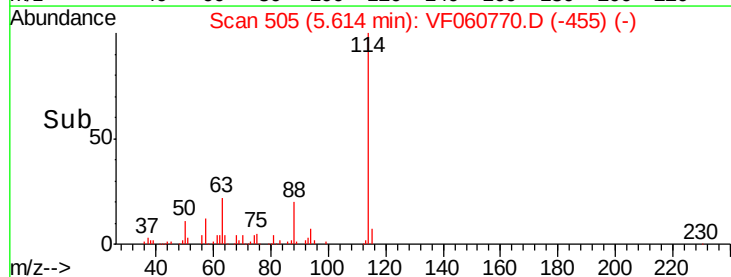
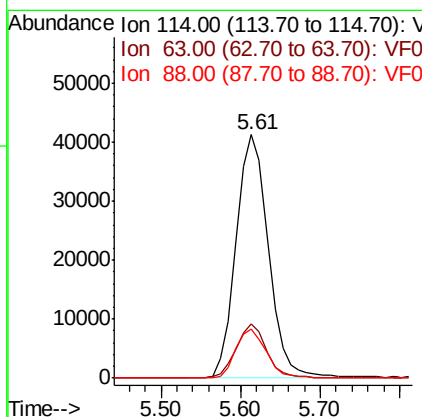
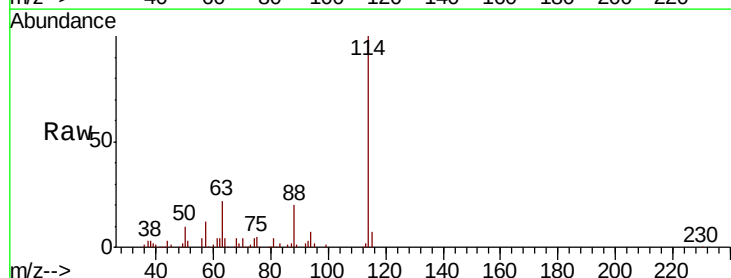
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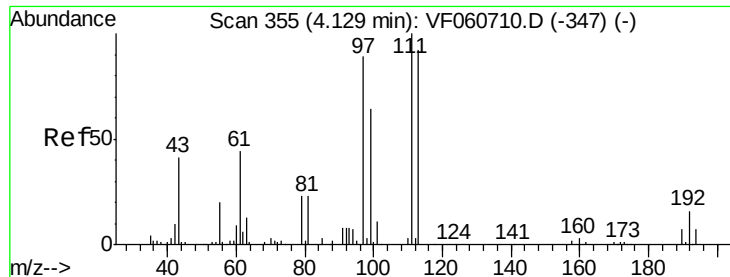
Tot Ion: 65 Resp: 27298
 Ion Ratio Lower Upper
 65 100
 67 43.2 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

Tgt Ion: 114 Resp: 116313
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 40.8
 88 20.1 0.0 39.6





#35

Dibromofluoromethane

Concen: 38.319 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

LR-RBR-200036RE

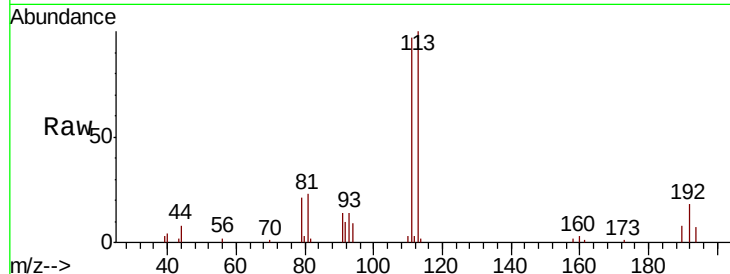
Tot Ion:113 Resp: 33503

Ion Ratio Lower Upper

113 100

111 96.6 87.1 130.7

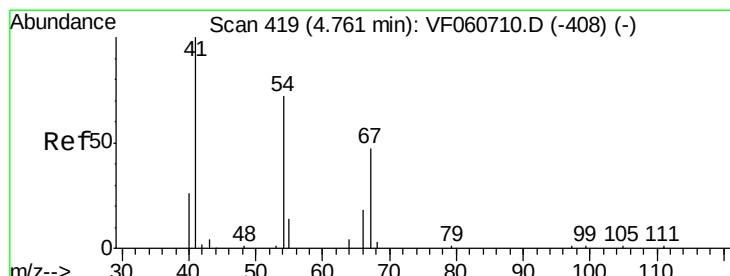
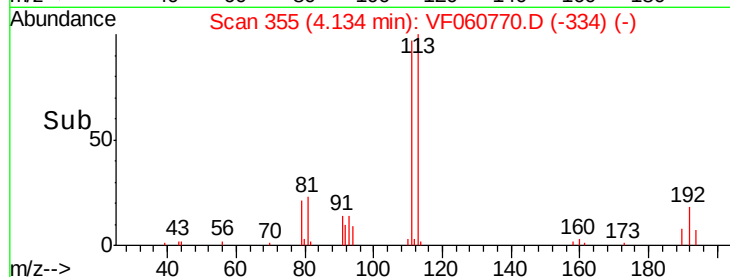
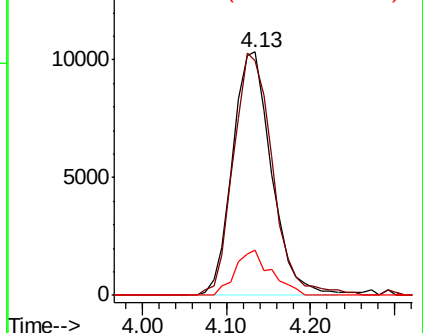
192 18.4 13.8 20.6



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 417

Delta R.T. -0.01 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Tgt Ion: 41 Resp: 429

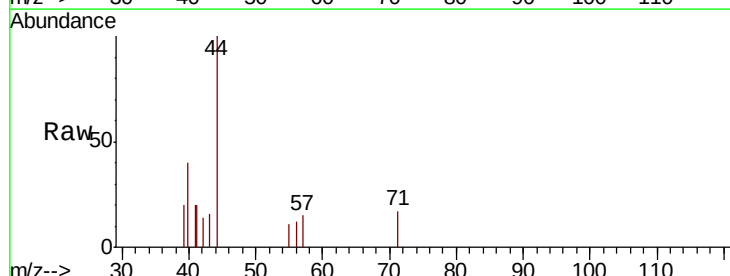
Ion Ratio Lower Upper

41 100

39 51.1 47.1 70.7

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

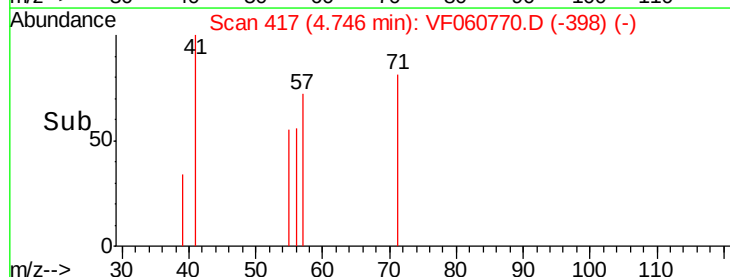
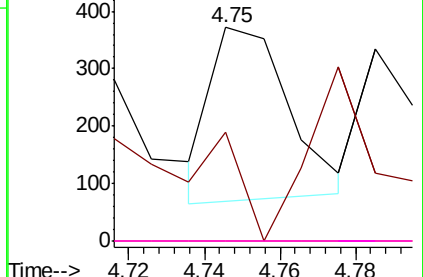


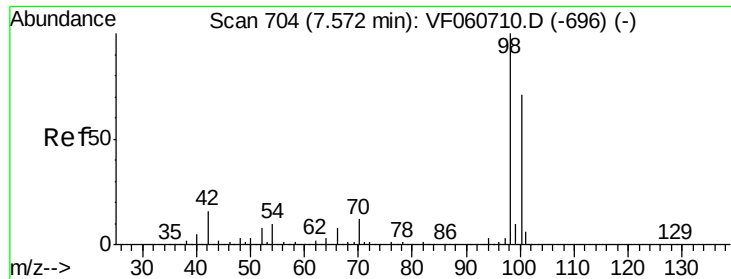
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

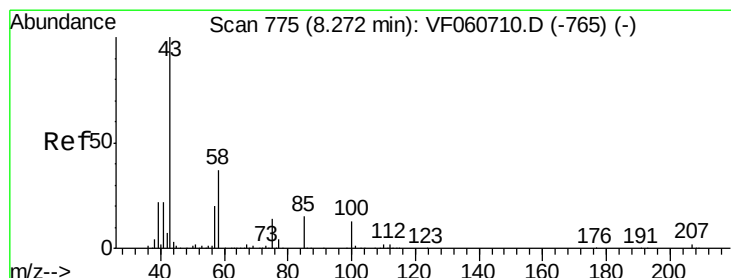
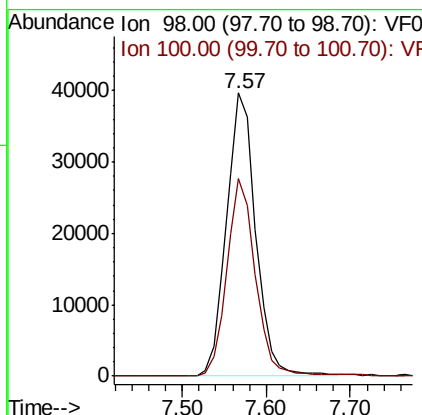
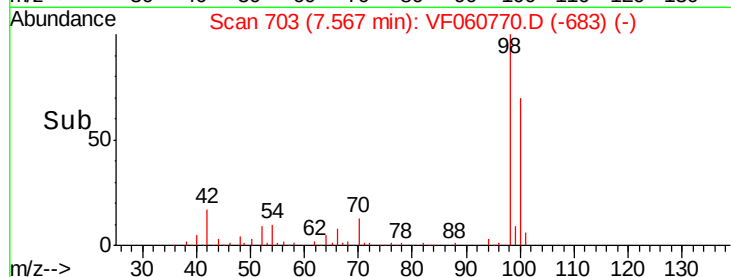
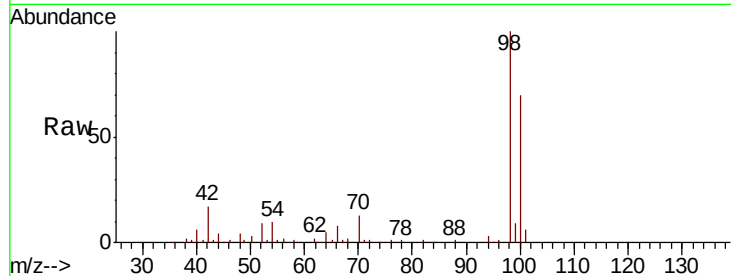




#50
Toluene-d8
Concen: 42.258 ug/l
RT: 7.57 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

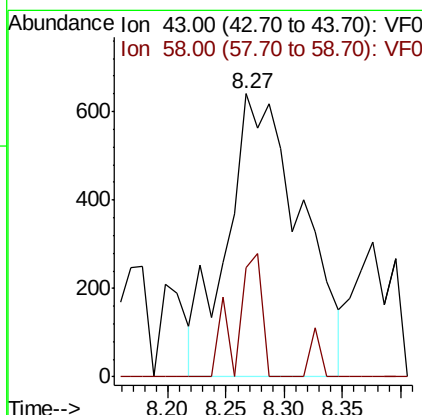
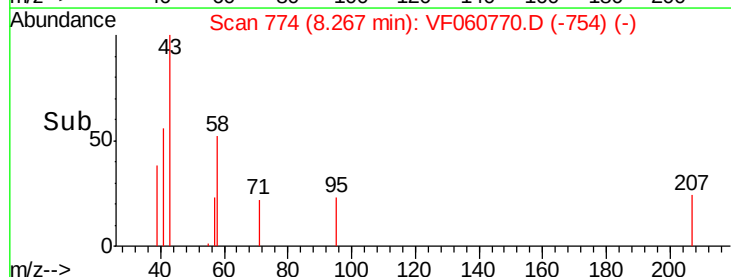
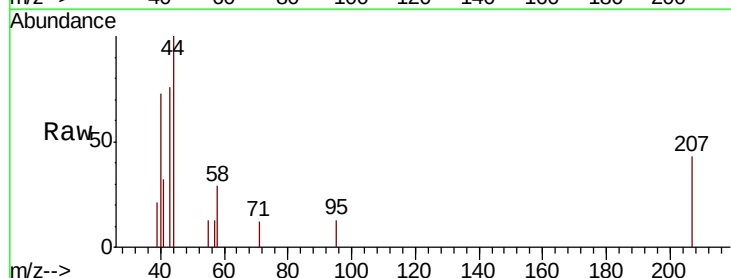
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

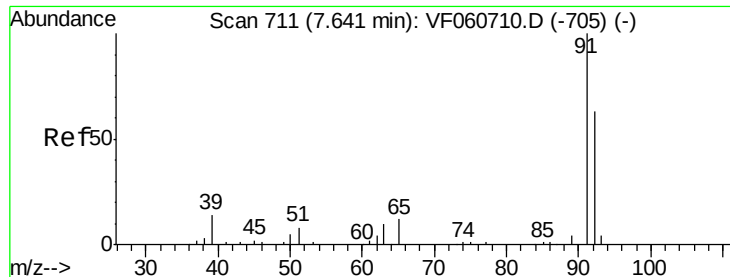
Tot Ion: 98 Resp: 96088
Ion Ratio Lower Upper
98 100
100 69.8 56.5 84.7



#51
4-Methyl-2-Pentanone
Concen: 5.883 ug/l
RT: 8.27 min Scan# 774
Delta R.T. -0.01 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

Tgt Ion: 43 Resp: 2829
Ion Ratio Lower Upper
43 100
58 38.8 29.2 43.8

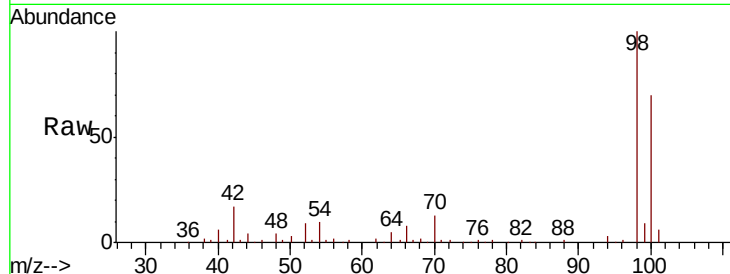




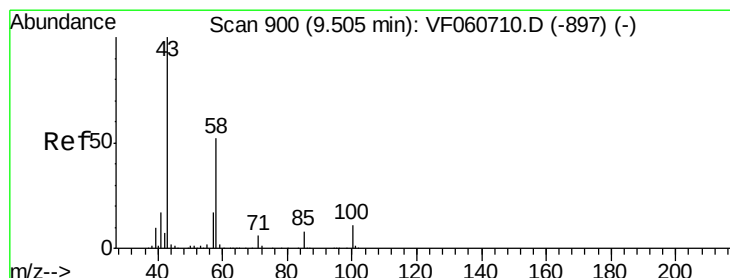
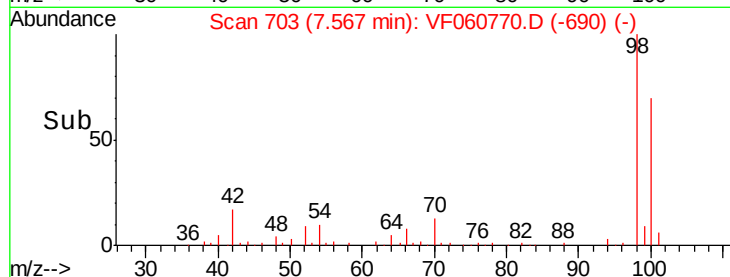
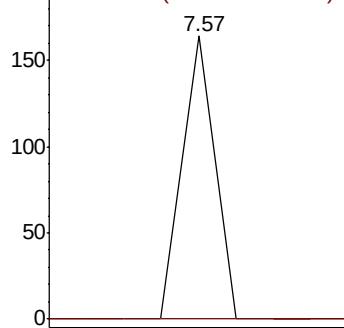
#58
 2-Chloroethyl Vinyl ether
 Concen: 1.624 ug/l
 RT: 7.57 min Scan# 703
 Delta R.T. -0.07 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

Instrument :
 MSVOA_F
 ClientSampleId :
 LR-RBR-200036RE

Tot Ion: 63 Resp: 97
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

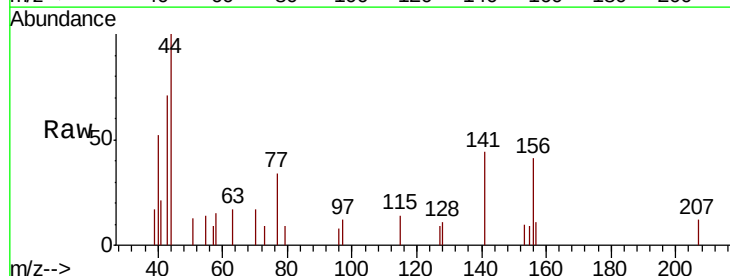


Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 106.00 (105.70 to 106.70): V

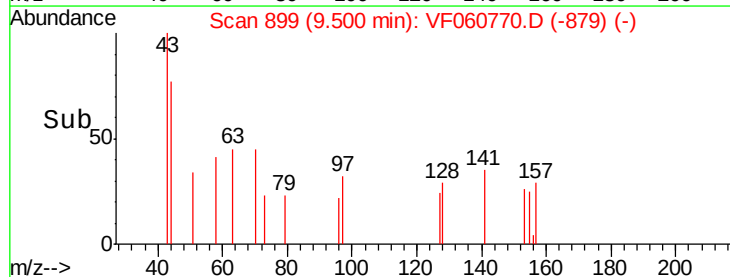
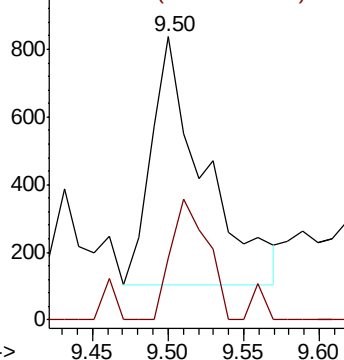


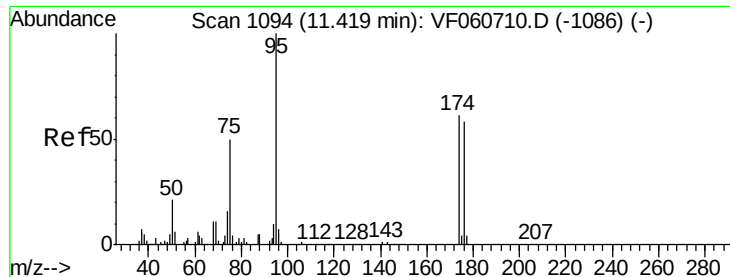
#59
 2-Hexanone
 Concen: 5.293 ug/l
 RT: 9.50 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

Tgt Ion: 43 Resp: 1789
 Ion Ratio Lower Upper
 43 100
 58 21.7 24.9 74.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

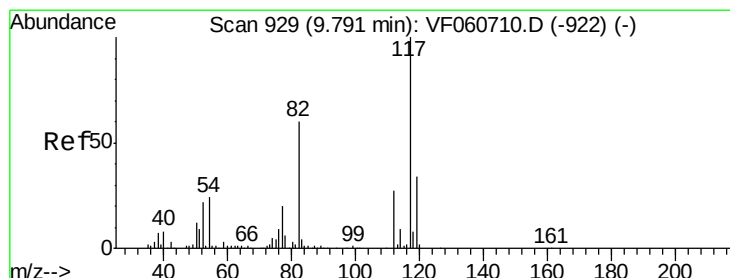
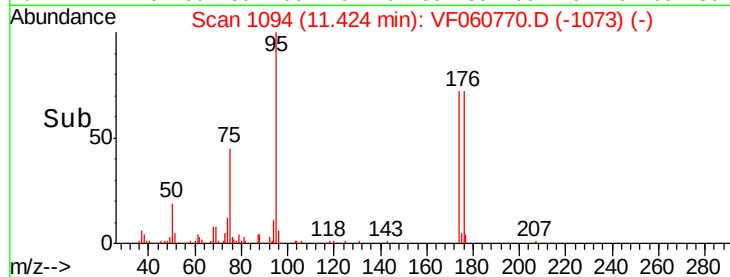
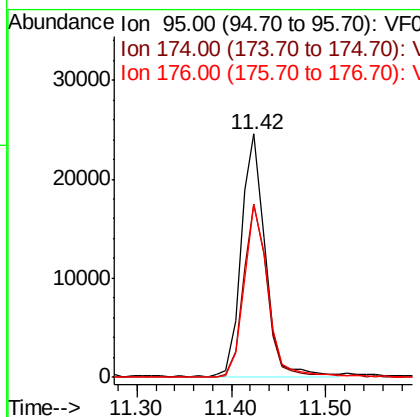
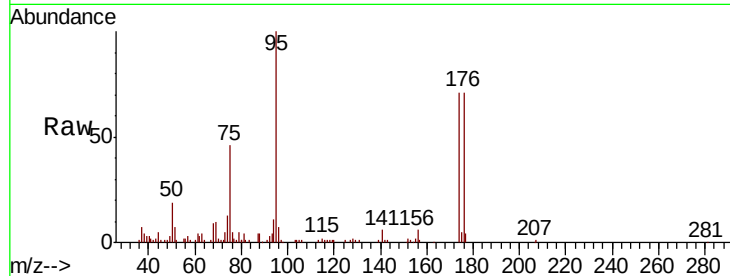




#62
4-Bromofluorobenzene
Concen: 41.305 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

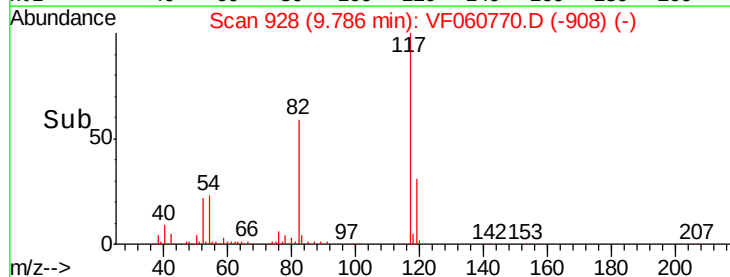
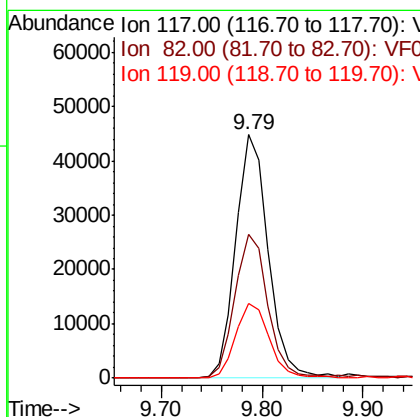
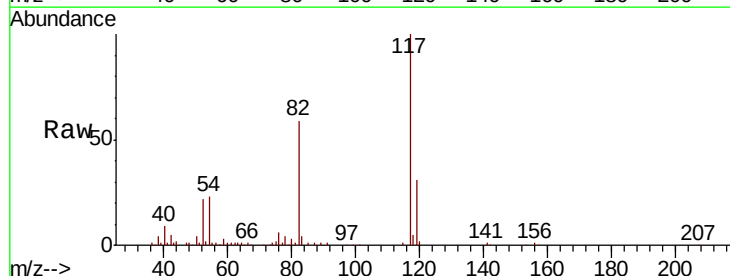
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

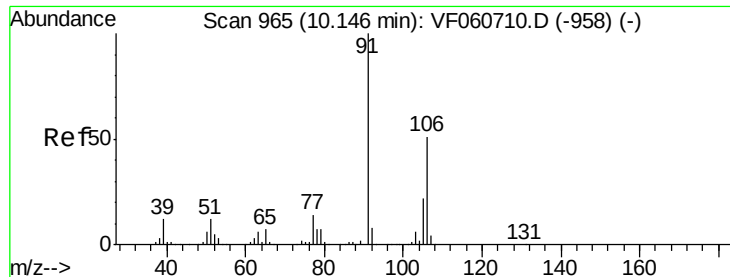
Tot Ion: 95 Resp: 43464
Ion Ratio Lower Upper
95 100
174 71.3 0.0 121.6
176 71.2 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

Tgt Ion: 117 Resp: 100998
Ion Ratio Lower Upper
117 100
82 59.0 47.9 71.9
119 30.5 26.8 40.2

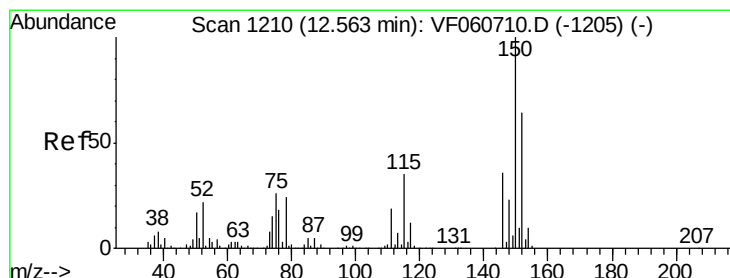
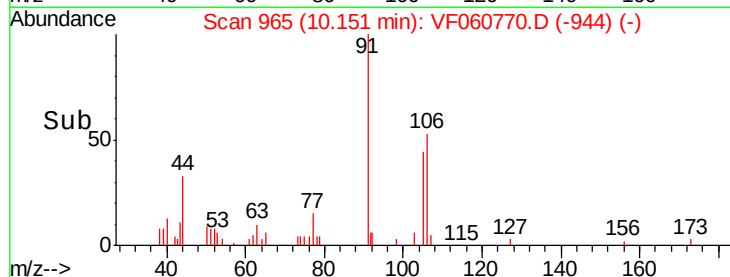
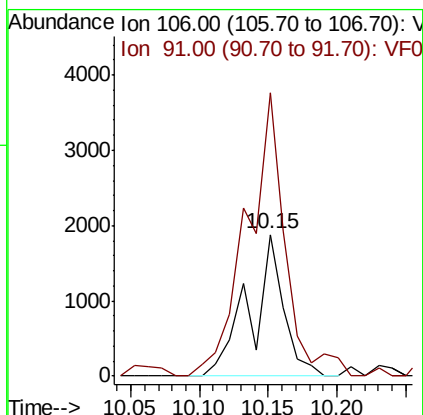
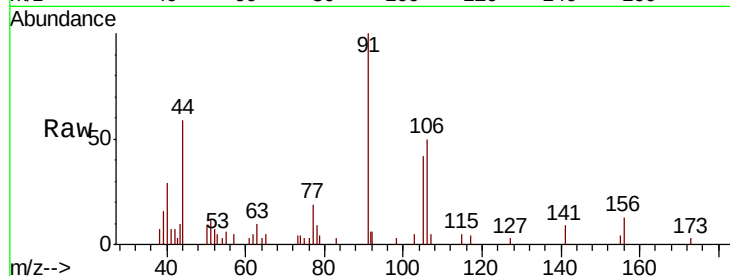




#68
m/p-Xylenes
Concen: 2.322 ug/l
RT: 10.15 min Scan# 965
Delta R.T. 0.00 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

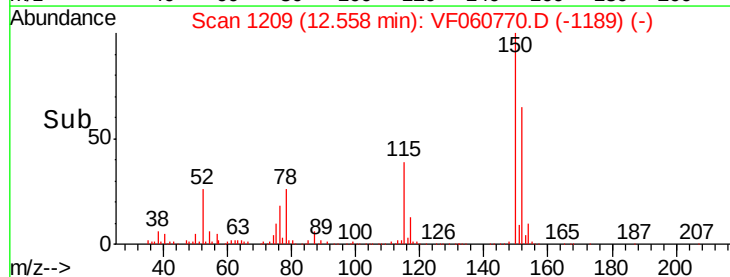
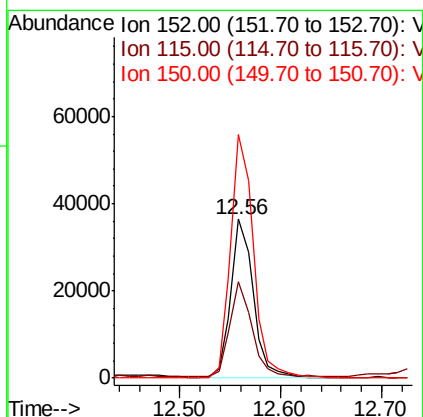
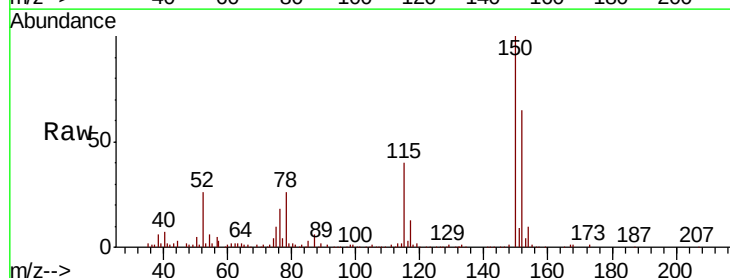
Instrument :
MSVOA_F
ClientSampleId :
LR-RBR-200036RE

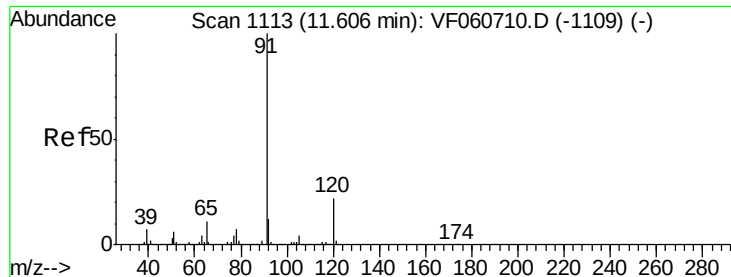
Tot Ion:106 Resp: 3188
Ion Ratio Lower Upper
106 100
91 199.6 158.2 237.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060770.D
Acq: 16 Nov 2018 17:55

Tgt Ion:152 Resp: 55721
Ion Ratio Lower Upper
152 100
115 61.0 27.9 83.7
150 153.4 0.0 316.4





#78

n-propylbenzene

Concen: 2.010 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

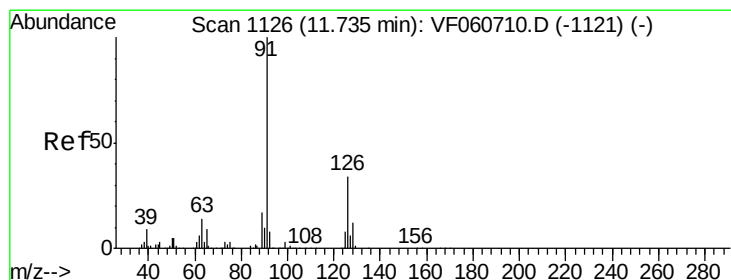
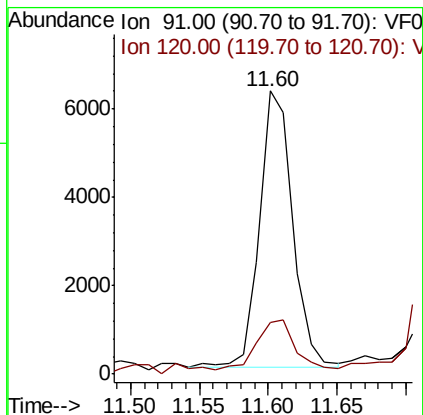
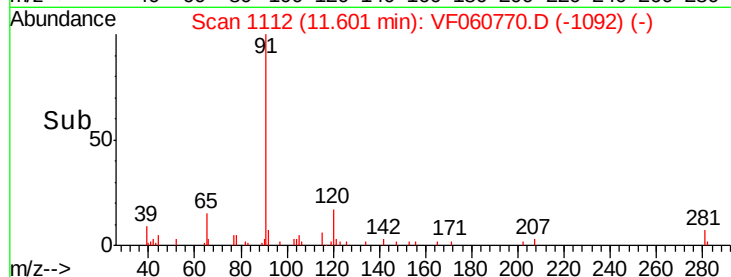
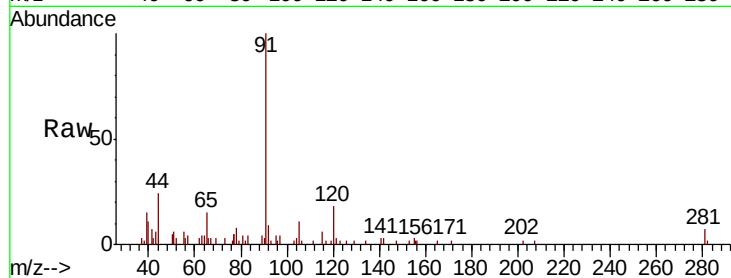
LR-RBR-200036RE

Tot Ion: 91 Resp: 10513

Ion Ratio Lower Upper

91 100

120 18.4 11.2 33.5



#79

2-Chlorotoluene

Concen: 1.280 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF060770.D

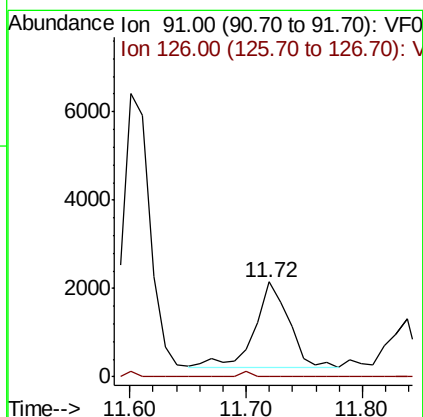
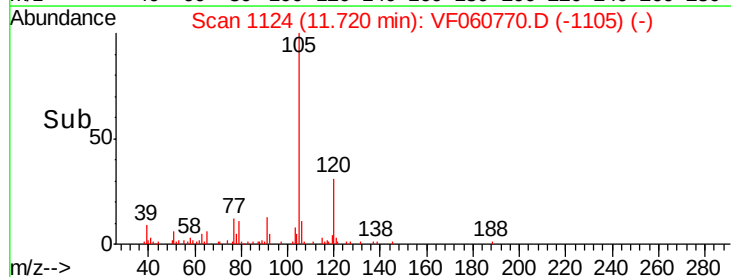
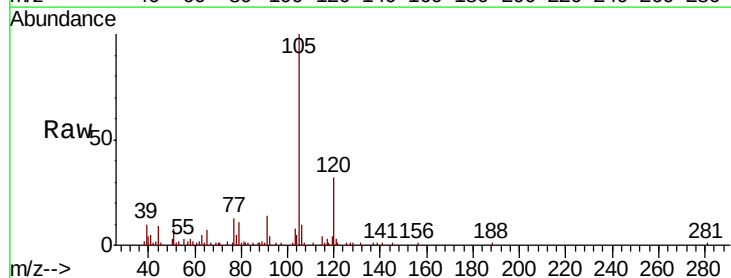
Acq: 16 Nov 2018 17:55

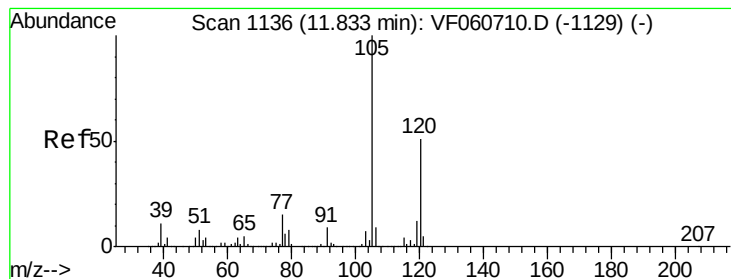
Tgt Ion: 91 Resp: 3893

Ion Ratio Lower Upper

91 100

126 0.0 16.8 50.4#





#80

1,3,5-Trimethylbenzene

Concen: 3.483 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

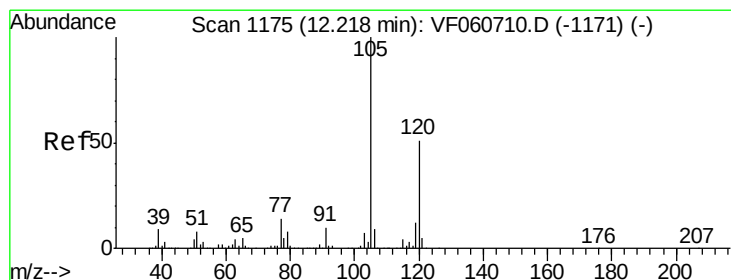
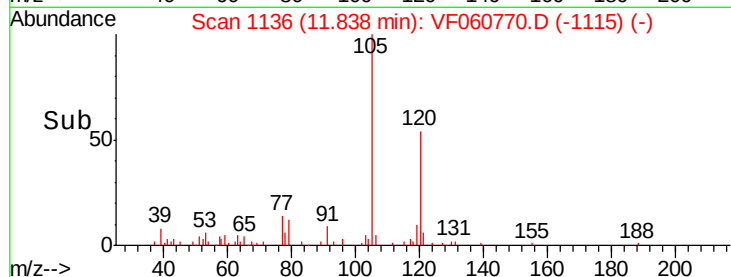
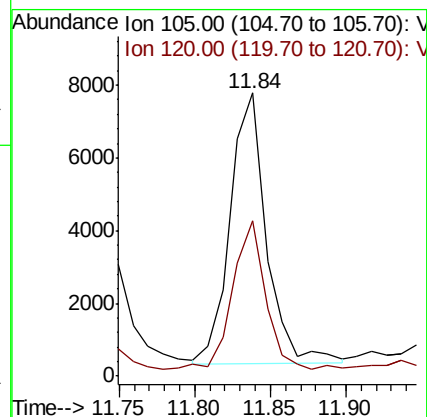
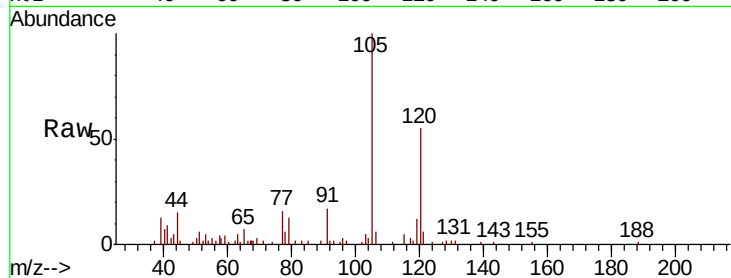
LR-RBR-200036RE

Tot Ion:105 Resp: 12402

Ion Ratio Lower Upper

105 100

120 54.7 25.6 76.8



#84

1,2,4-Trimethylbenzene

Concen: 10.353 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF060770.D

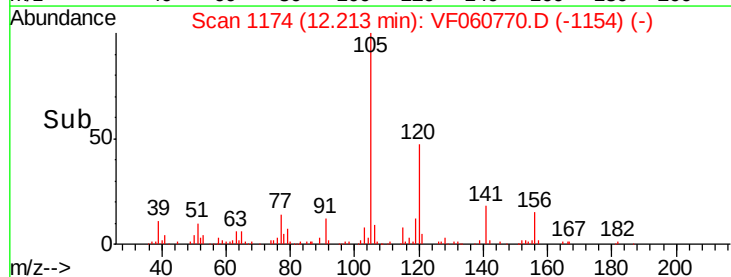
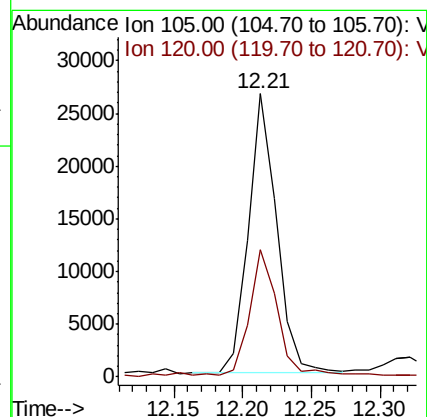
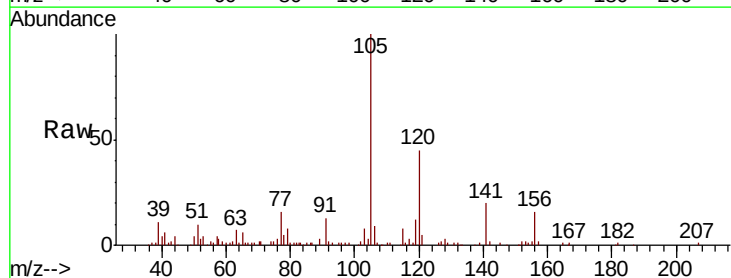
Acq: 16 Nov 2018 17:55

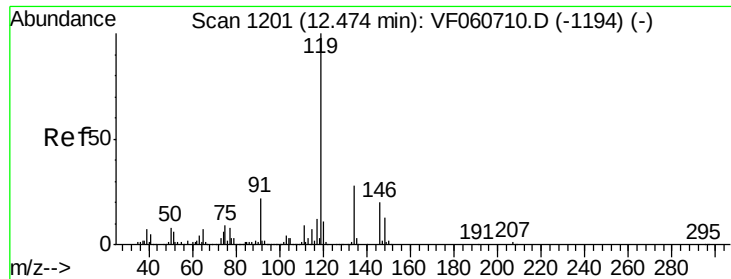
Tgt Ion:105 Resp: 38127

Ion Ratio Lower Upper

105 100

120 45.2 25.5 76.5

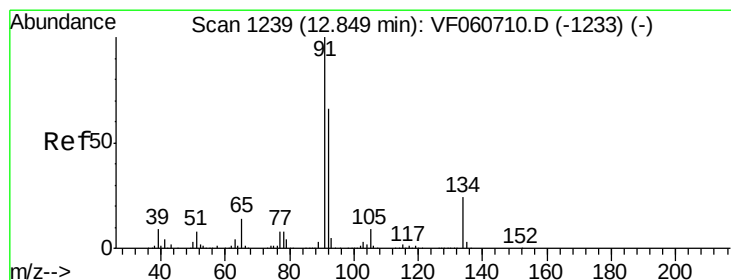
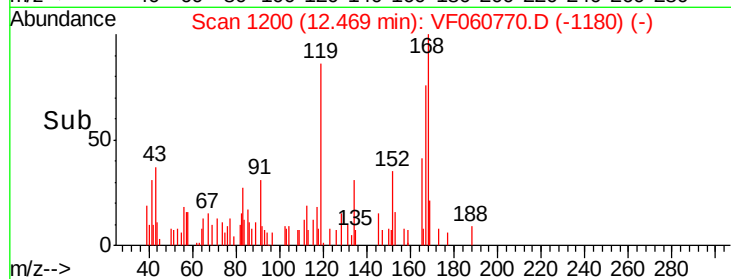
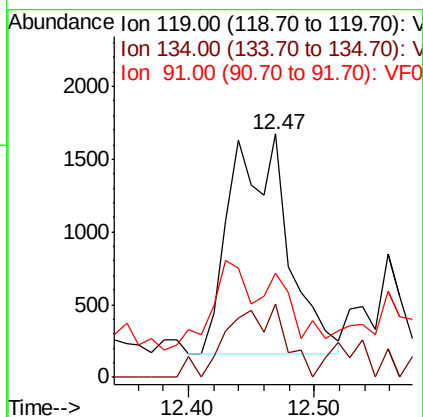
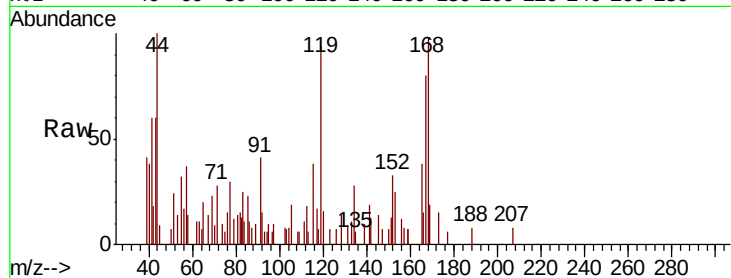




#86
 p-Isopropyltoluene
 Concen: 1.110 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

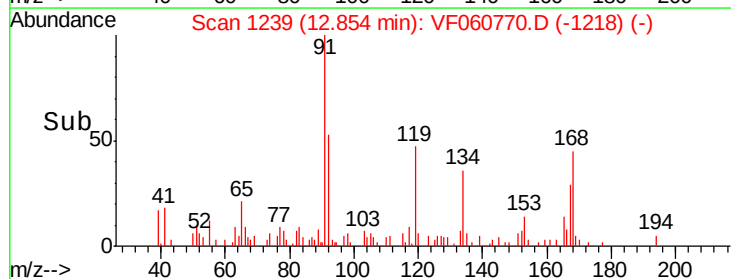
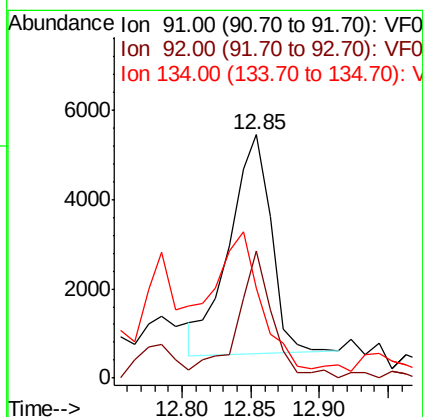
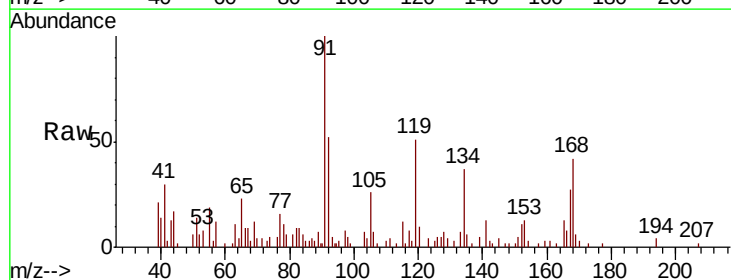
Instrument :
 MSVOA_F
 ClientSampleId :
 LR-RBR-200036RE

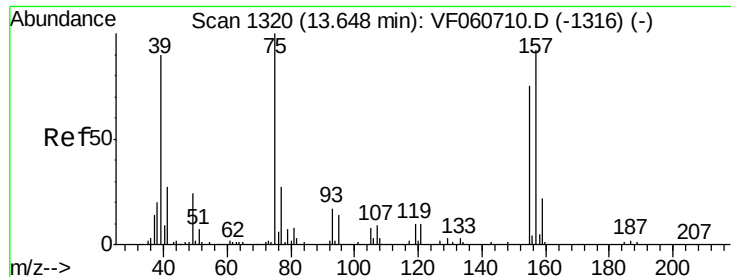
Tot Ion: 119 Resp: 4754
 Ion Ratio Lower Upper
 119 100
 134 30.0 13.9 41.7
 91 43.0 11.3 33.9#



#89
 n-Butylbenzene
 Concen: 2.359 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VF060770.D
 Acq: 16 Nov 2018 17:55

Tgt Ion: 91 Resp: 10312
 Ion Ratio Lower Upper
 91 100
 92 52.4 33.1 99.2
 134 37.2 11.9 35.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 8.101 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

LR-RBR-200036RE

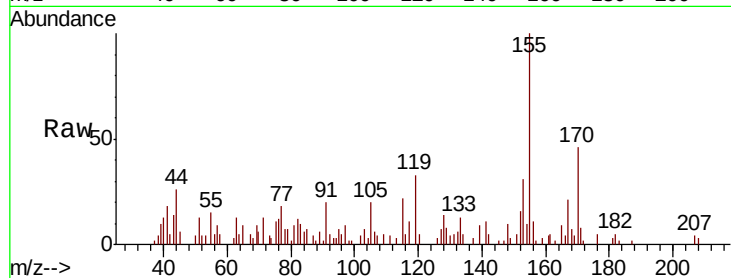
Tot Ion: 75 Resp: 1129

Ion Ratio Lower Upper

75 100

155 914.1 37.4 112.2#

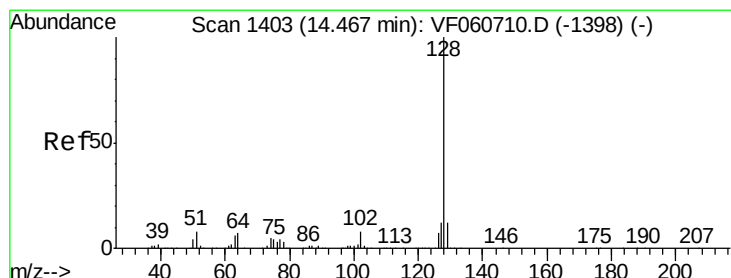
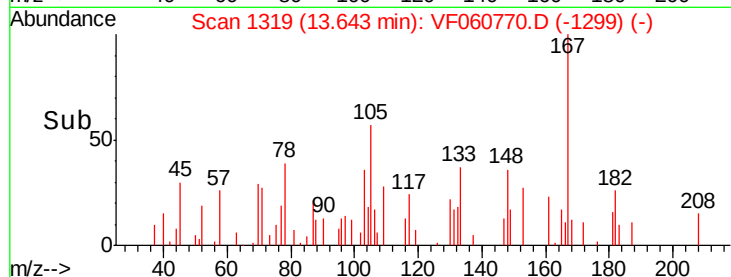
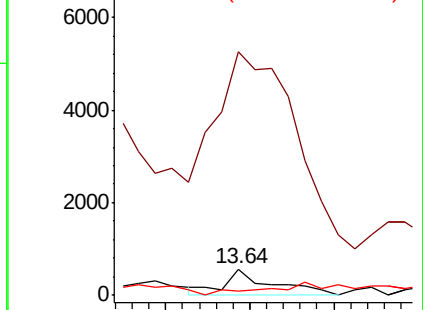
157 17.7 46.0 138.0#



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: 7.683 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF060770.D

Acq: 16 Nov 2018 17:55

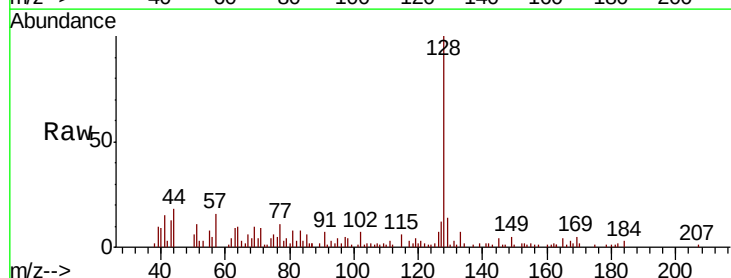
Tgt Ion: 128 Resp: 17626

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.6

129 13.6 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

