

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111518\
 Data File : VF060756.D
 Acq On : 15 Nov 2018 19:43
 Operator : VA/AP
 Sample : J5911-02
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 16 04:38:49 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	4.87	168	185048	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	300785	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	271734	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	154993	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	83029	39.34	ug/l	-0.02
Spiked Amount			Recovery	=	78.68%	
35) Dibromofluoromethane	4.11	113	83582	36.97	ug/l	-0.02
Spiked Amount			Recovery	=	73.94%	
50) Toluene-d8	7.55	98	225097	37.91	ug/l	-0.02
Spiked Amount			Recovery	=	75.82%	
62) 4-Bromofluorobenzene	11.41	95	112343	41.28	ug/l	0.00
Spiked Amount			Recovery	=	82.56%	

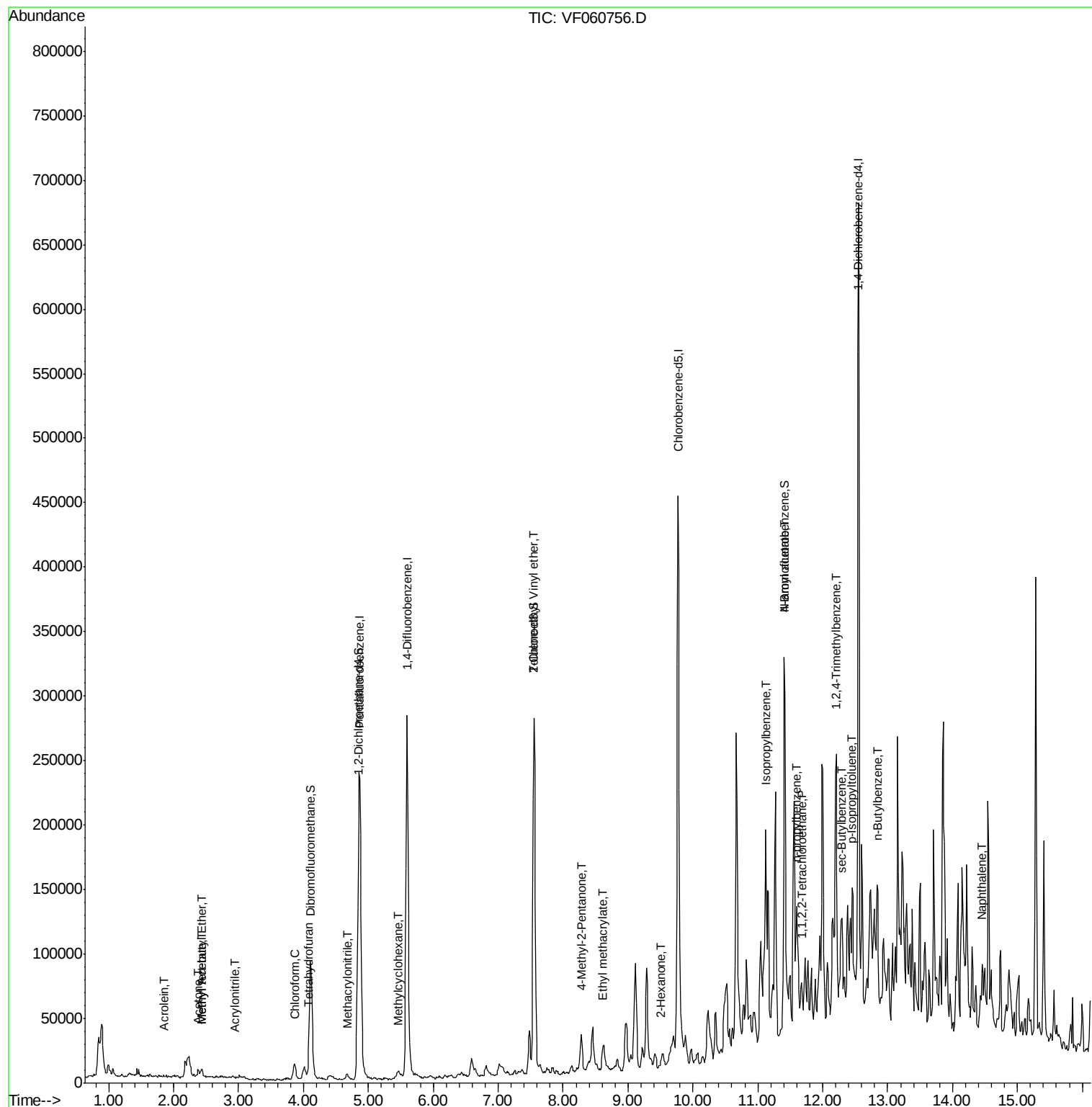
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.86	56	487	5.545	ug/l	91
15) Acrylonitrile	2.94	53	377	1.842	ug/l #	4
16) Acetone	2.37	43	687	1.523	ug/l	100
18) Methyl Acetate	2.44	43	2966	4.004	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	6377	1.761	ug/l #	83
29) Tetrahydrofuran	4.07	42	344	1.124	ug/l #	36
30) Chloroform	3.86	83	14430	2.909	ug/l	98
39) Methylcyclohexane	5.47	83	5375	1.328	ug/l	96
41) Methacrylonitrile	4.66	41	4272	2.024	ug/l #	55
51) 4-Methyl-2-Pentanone	8.28	43	17449	14.030	ug/l #	45
56) Ethyl methacrylate	8.62	69	11248	6.652	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.56	63	260	1.683	ug/l	100
59) 2-Hexanone	9.49	43	2885	3.301	ug/l #	52
73) Isopropylbenzene	11.12	105	20430	1.638	ug/l	91
74) N-amyl acetate	11.40	43	4456	1.569	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.67	83	6324	3.066	ug/l #	41
78) n-propylbenzene	11.60	91	47444	3.261	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	13176	1.286	ug/l	87
85) sec-Butylbenzene	12.31	105	15883	1.113	ug/l #	74
86) p-Isopropyltoluene	12.46	119	23586	1.980	ug/l	90
89) n-Butylbenzene	12.85	91	23851	1.962	ug/l	87
95) Naphthalene	14.46	128	17643	2.765	ug/l	95

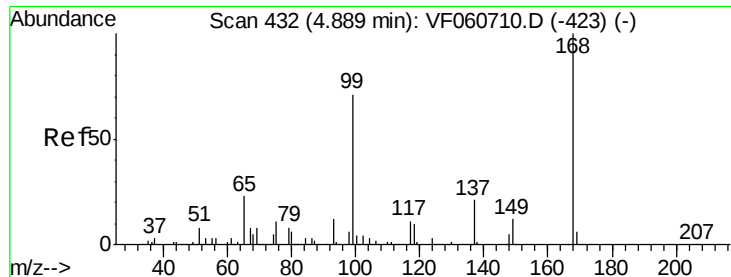
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF111518\
Data File : VF060756.D
Acq On : 15 Nov 2018 19:43
Operator : VA/AP
Sample : J5911-02
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Nov 16 04:38:49 2018
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: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

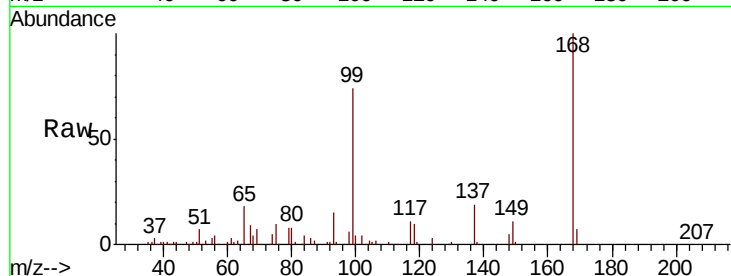
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 185048

Ion Ratio Lower Upper

168 100

99 74.2 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

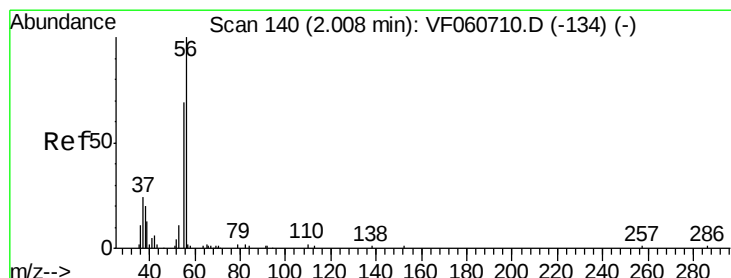
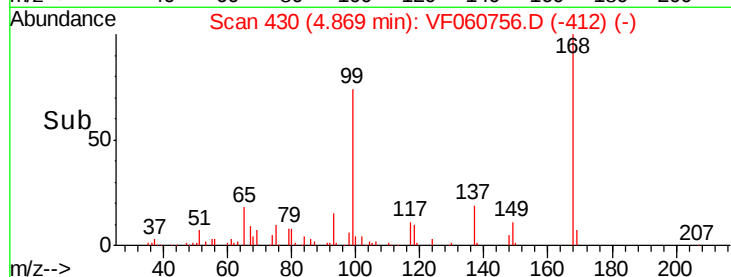
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 5.545 ug/l

RT: 1.86 min Scan# 125

Delta R.T. -0.15 min

Lab File: VF060756.D

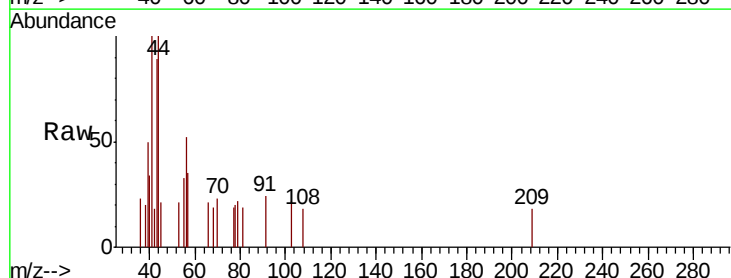
Acq: 15 Nov 2018 19:43

Tgt Ion: 56 Resp: 487

Ion Ratio Lower Upper

56 100

55 63.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

600

500

400

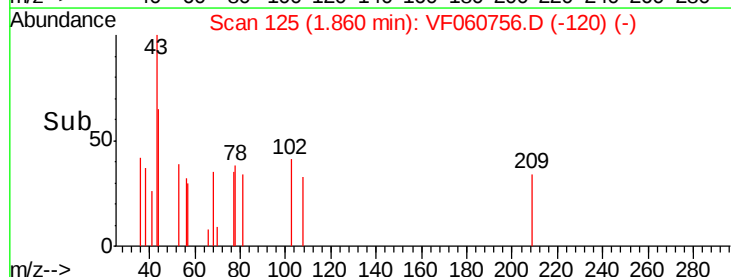
300

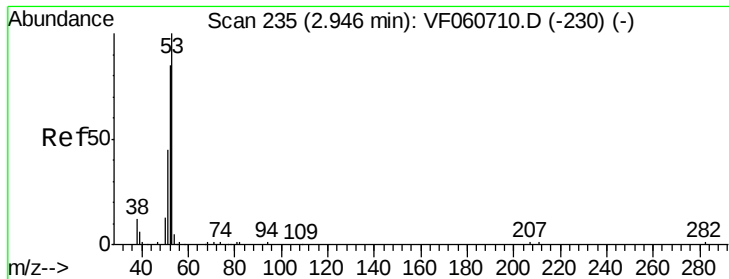
200

100

0

Time-->





#15

Acrylonitrile

Concen: 1.842 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :
MSVOA_F
ClientSampleId :

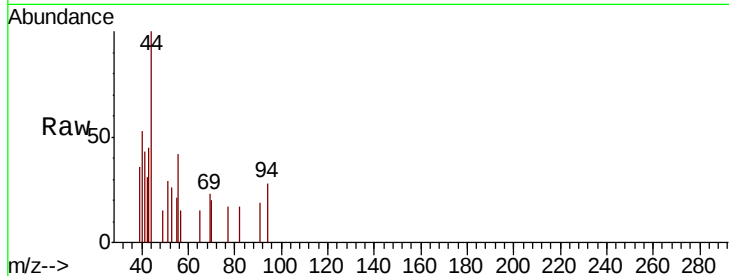
Tot Ion: 53 Resp: 377

Ion Ratio Lower Upper

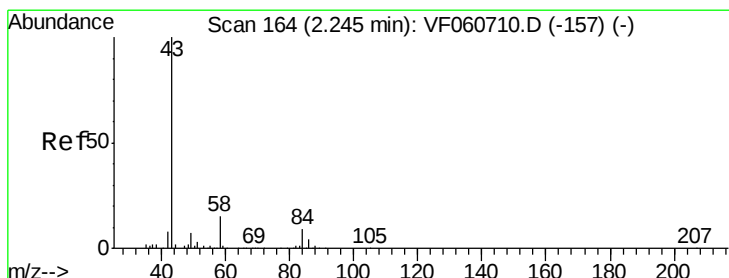
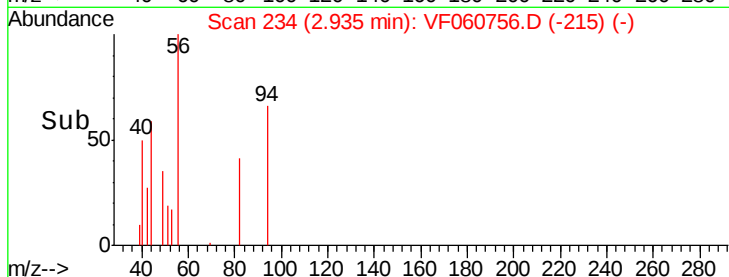
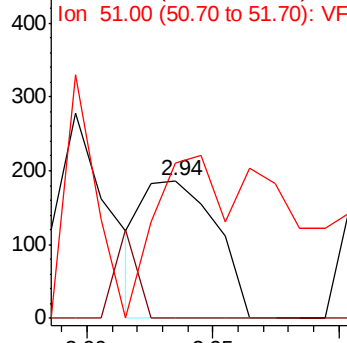
53 100

52 0.0 68.8 103.2#

51 112.8 36.7 55.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 1.523 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.13 min

Lab File: VF060756.D

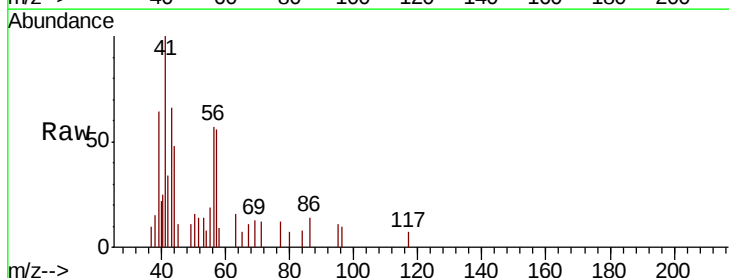
Acq: 15 Nov 2018 19:43

Tgt Ion: 43 Resp: 687

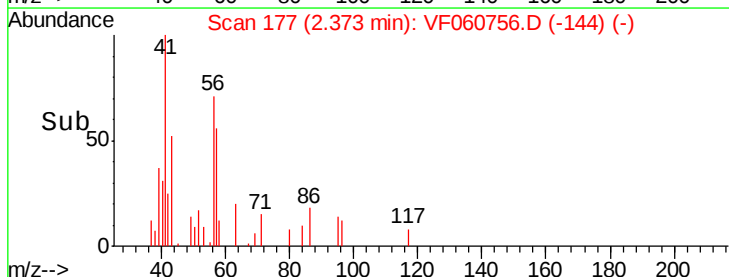
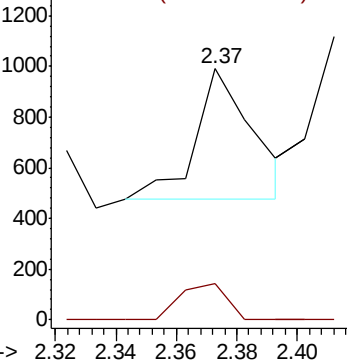
Ion Ratio Lower Upper

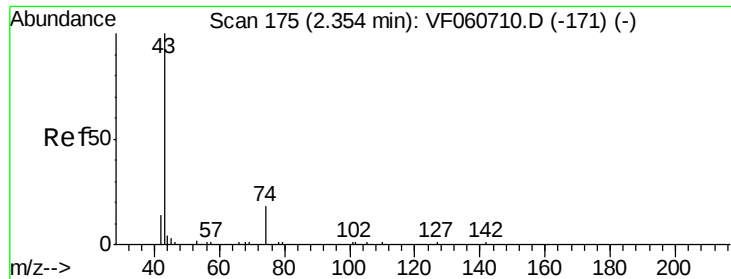
43 100

58 14.4 11.6 17.4



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

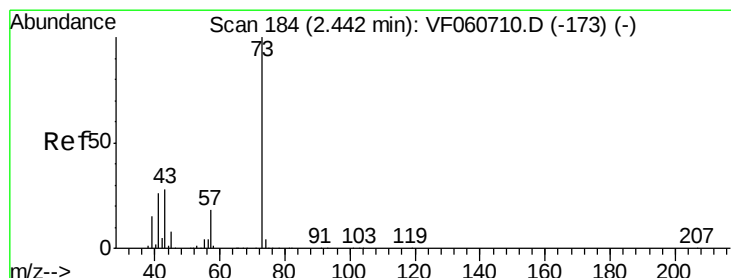
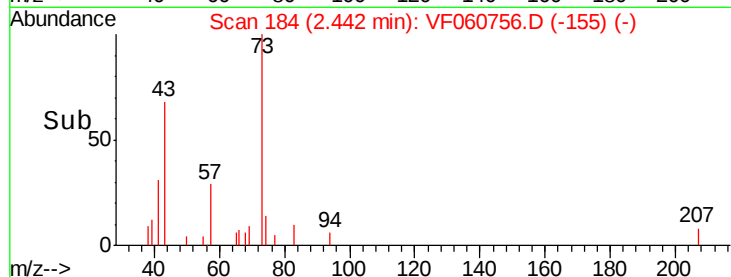
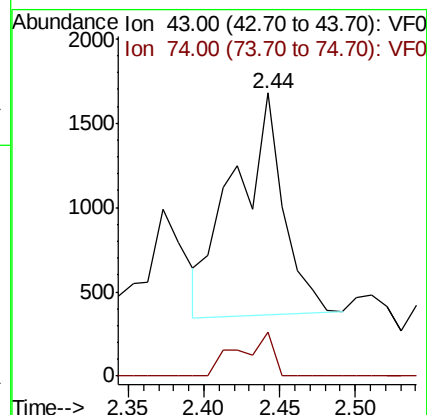
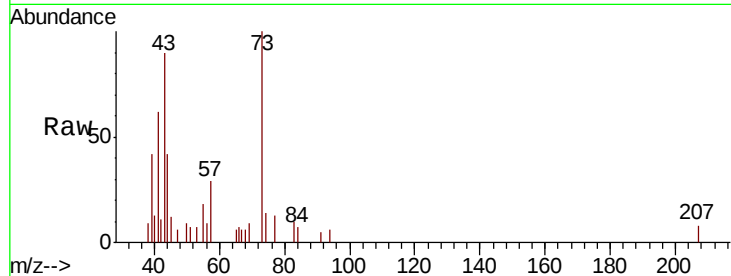




#18
Methyl Acetate
Concen: 4.004 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.09 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

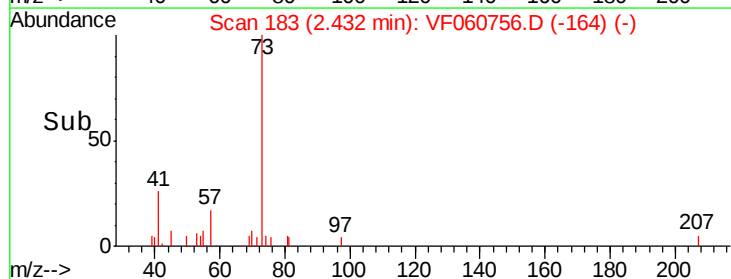
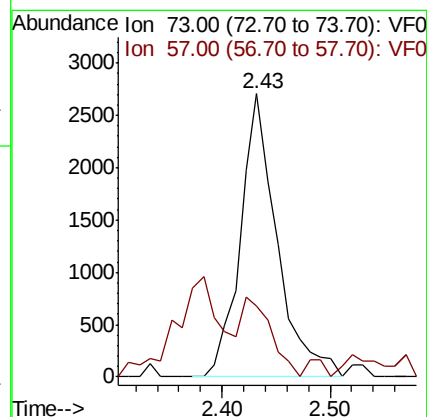
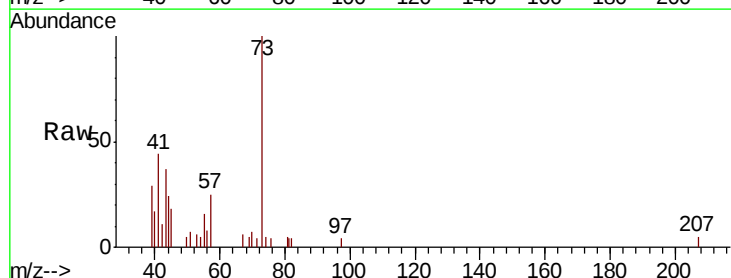
Instrument :
MSVOA_F
ClientSampleId :

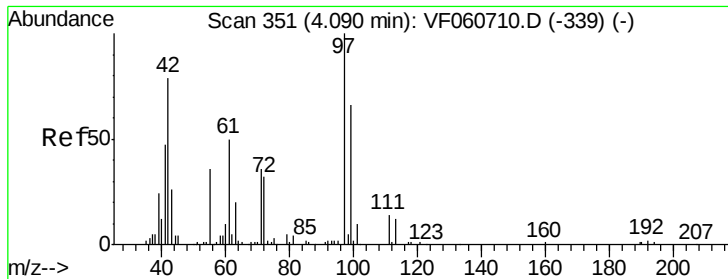
Tot Ion: 43 Resp: 2966
Ion Ratio Lower Upper
43 100
74 15.4 11.8 17.8



#19
Methyl tert-butyl Ether
Concen: 1.761 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

Tgt Ion: 73 Resp: 6377
Ion Ratio Lower Upper
73 100
57 25.2 14.3 21.5#





#29

Tetrahydrofuran

Concen: 1.124 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

ClientSampled :

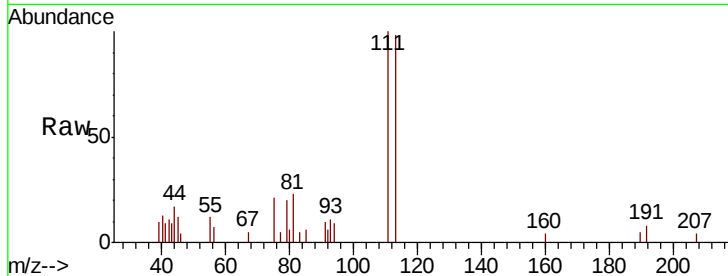
Tot Ion: 42 Resp: 344

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

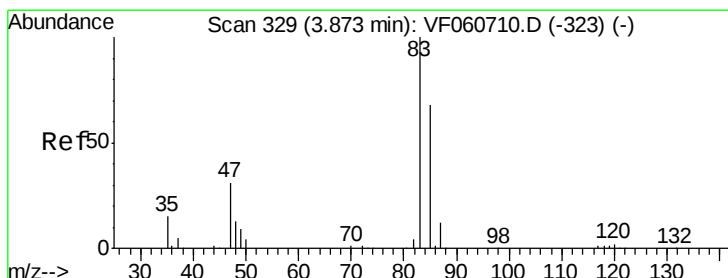
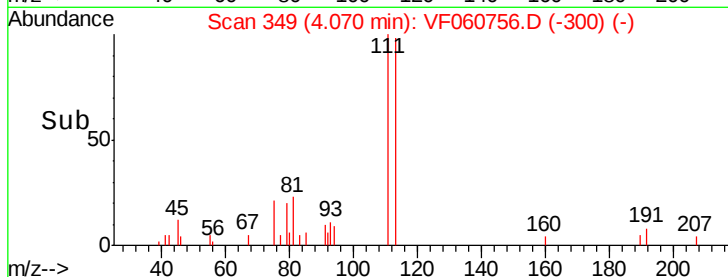
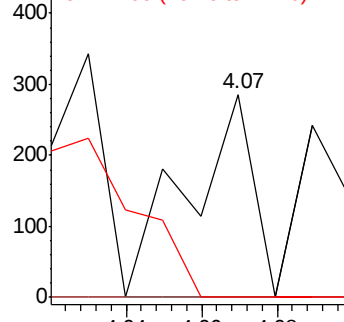
71 0.0 32.2 48.2#



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



#30

Chloroform

Concen: 2.909 ug/l

RT: 3.86 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF060756.D

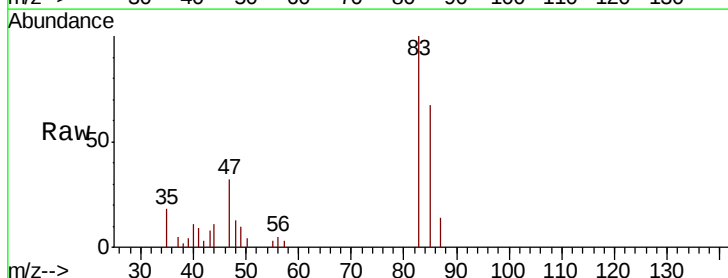
Acq: 15 Nov 2018 19:43

Tgt Ion: 83 Resp: 14430

Ion Ratio Lower Upper

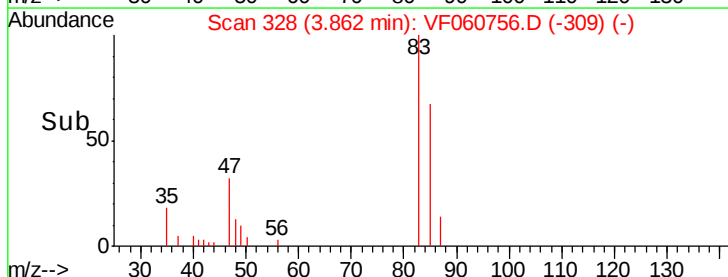
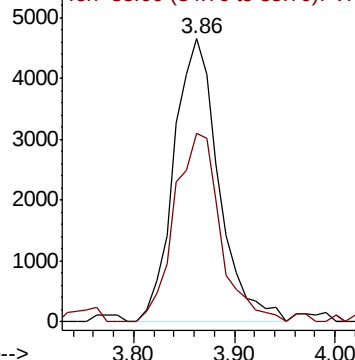
83 100

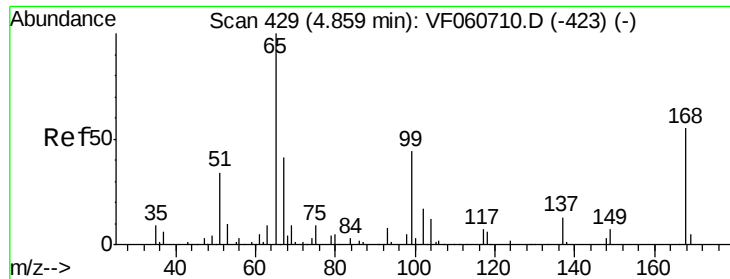
85 66.5 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

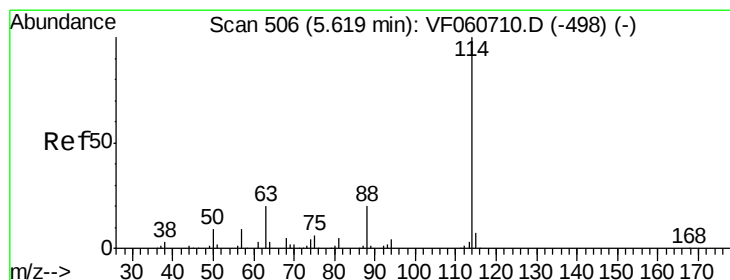
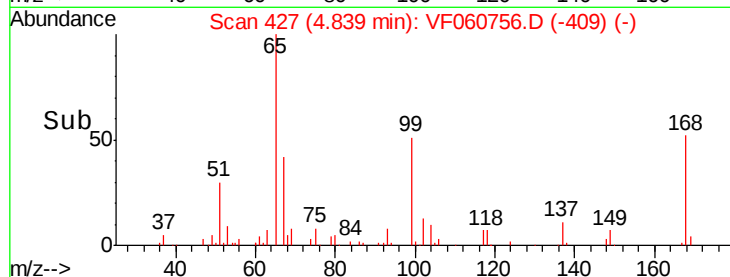
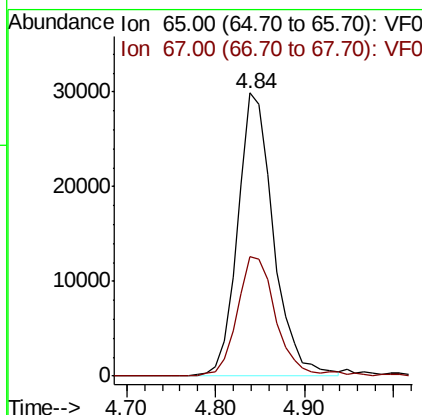
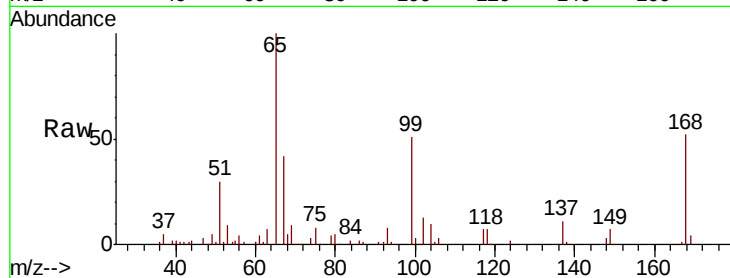




#33
 1,2-Dichloroethane-d4
 Concen: 39.337 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.02 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

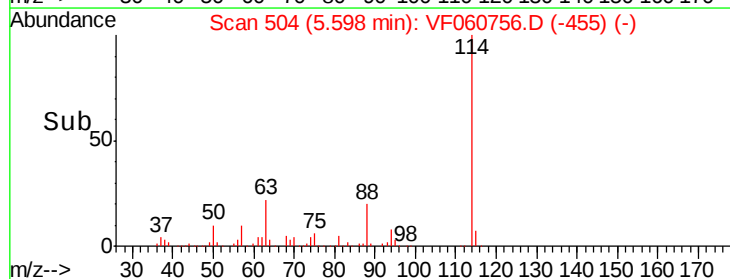
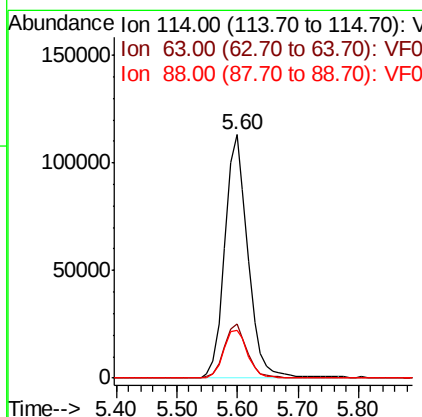
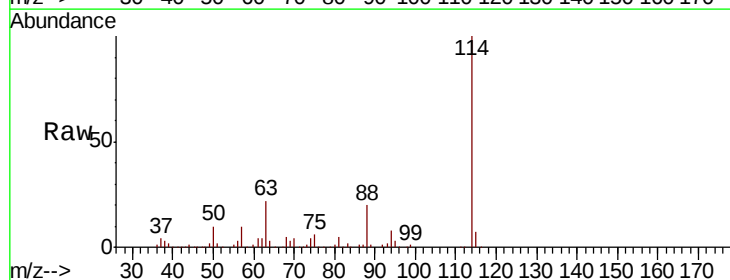
Instrument :
 MSVOA_F
 ClientSampleId :

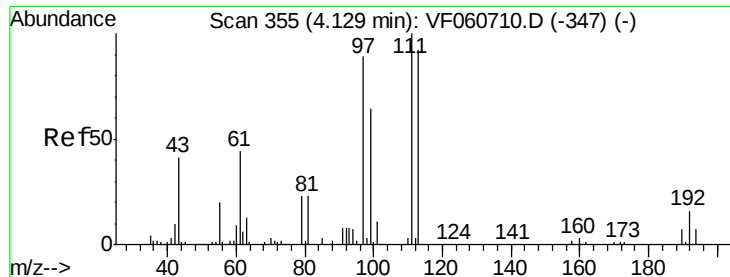
Tot Ion: 65 Resp: 83029
 Ion Ratio Lower Upper
 65 100
 67 42.4 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.02 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

Tgt Ion: 114 Resp: 300785
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 40.8
 88 19.6 0.0 39.6

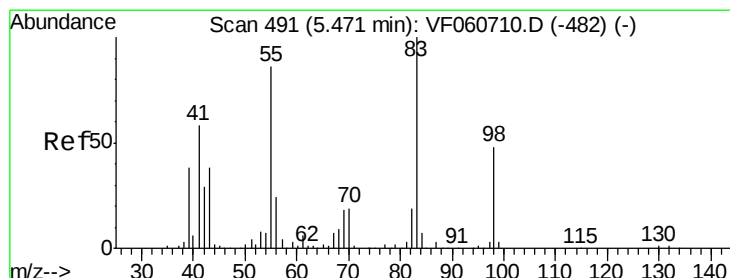
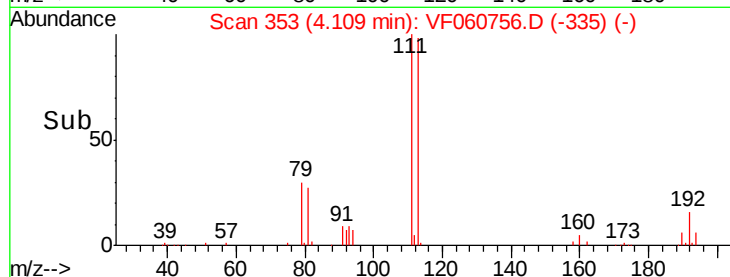
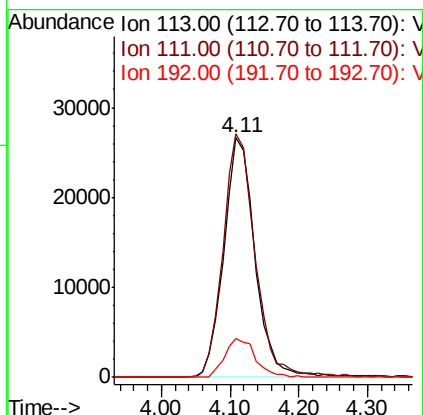
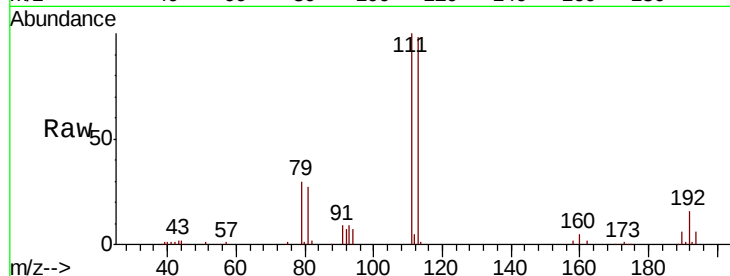




#35
 Dibromofluoromethane
 Concen: 36.967 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.02 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

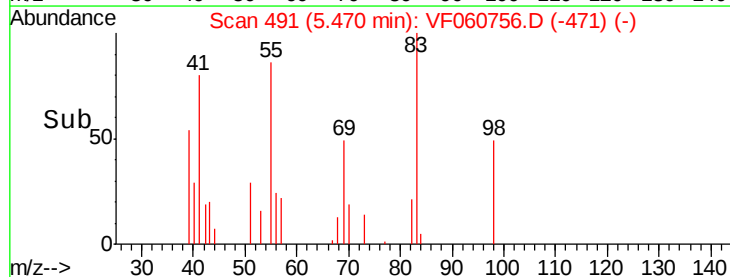
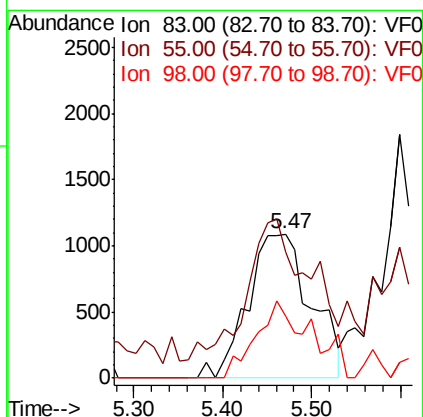
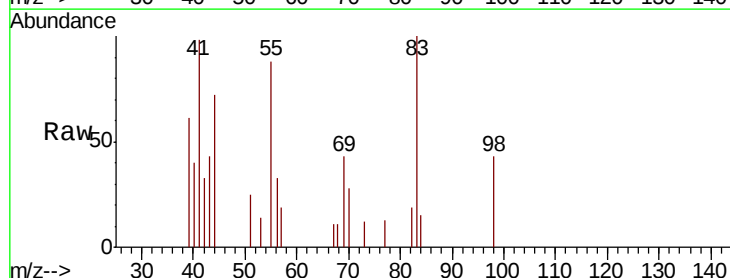
Instrument :
 MSVOA_F
 ClientSampleId :

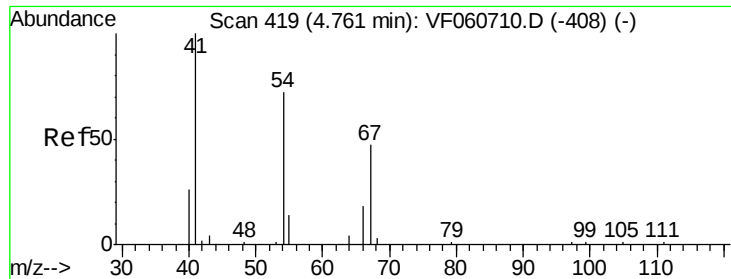
Tot Ion:113 Resp: 83582
 Ion Ratio Lower Upper
 113 100
 111 101.7 87.1 130.7
 192 16.2 13.8 20.6



#39
 Methylcyclohexane
 Concen: 1.328 ug/l
 RT: 5.47 min Scan# 491
 Delta R.T. -0.00 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

Tgt Ion: 83 Resp: 5375
 Ion Ratio Lower Upper
 83 100
 55 87.5 69.0 103.4
 98 42.5 38.5 57.7

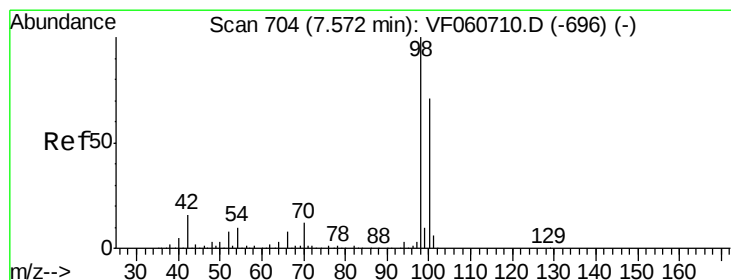
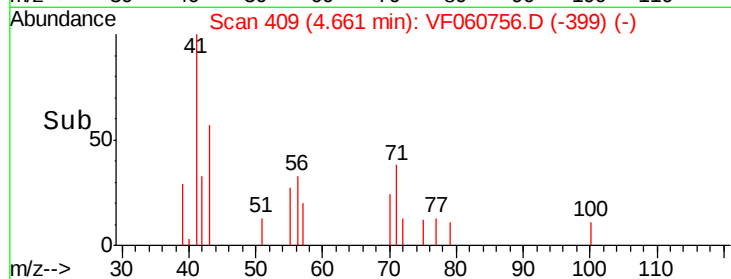
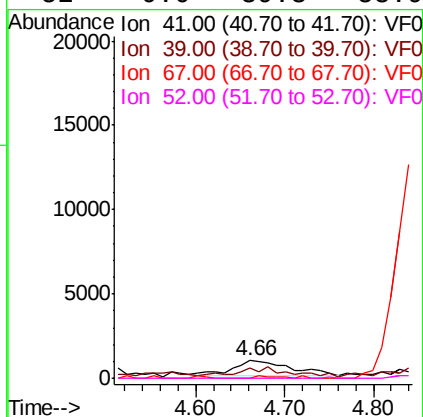
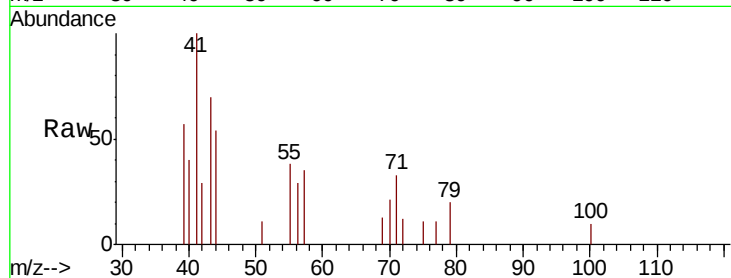




#41
Methacrylonitrile
Concen: 2.024 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.10 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

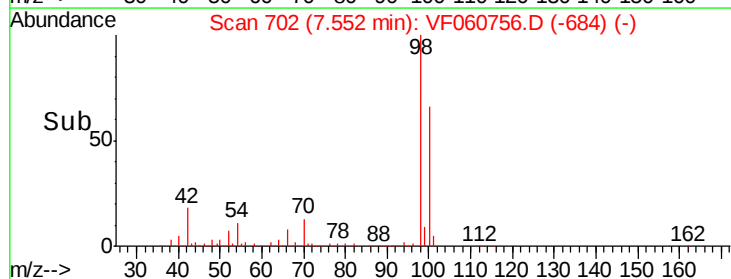
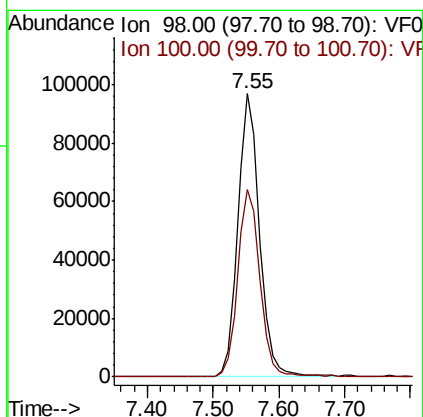
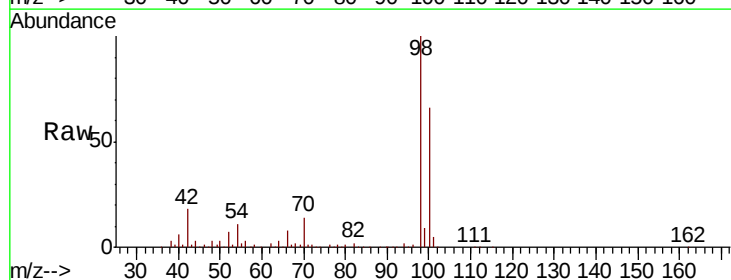
Instrument :
MSVOA_F
ClientSampleId :

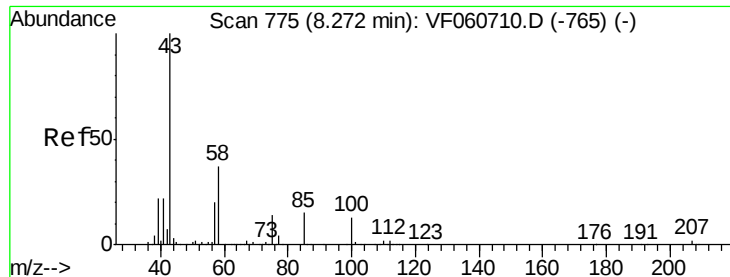
Tot Ion: 41 Resp: 4272
Ion Ratio Lower Upper
41 100
39 56.5 47.1 70.7
67 0.0 37.1 55.7#
52 0.0 39.3 58.9#



#50
Toluene-d8
Concen: 37.908 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.02 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

Tgt Ion: 98 Resp: 225097
Ion Ratio Lower Upper
98 100
100 66.4 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 14.030 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

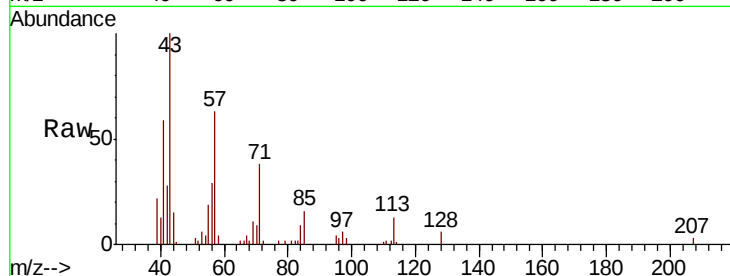
ClientSampled :

Tot Ion: 43 Resp: 17449

Ion Ratio Lower Upper

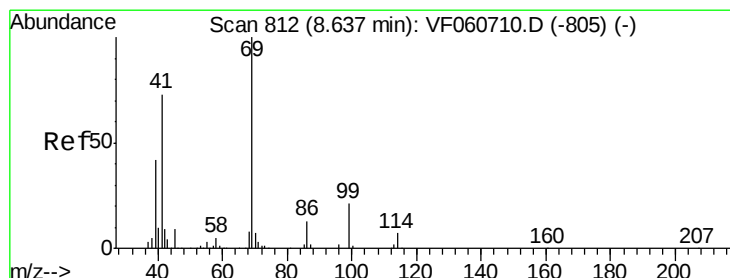
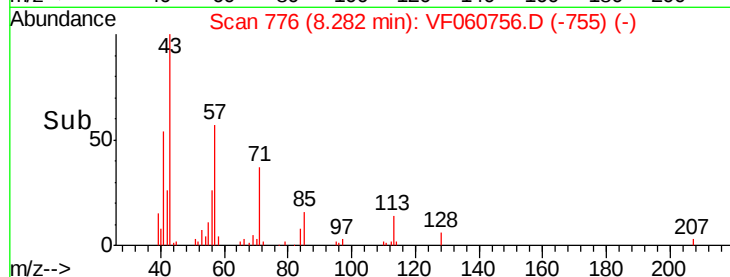
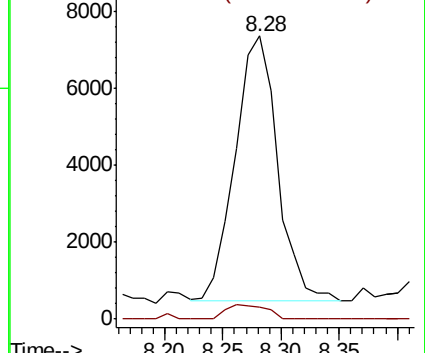
43 100

58 4.1 29.2 43.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 6.652 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.02 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

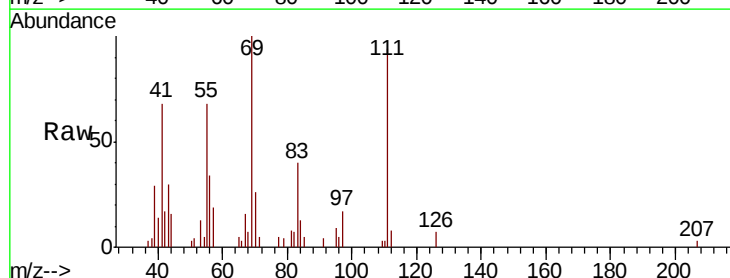
Tgt Ion: 69 Resp: 11248

Ion Ratio Lower Upper

69 100

41 68.1 59.0 88.6

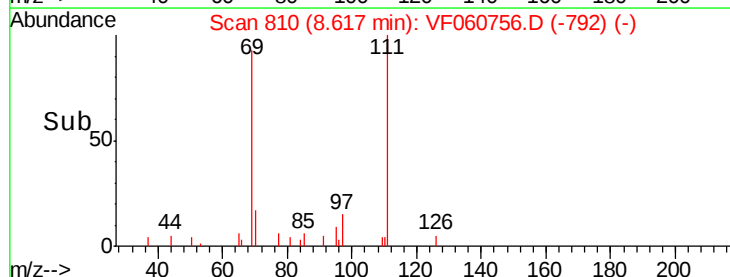
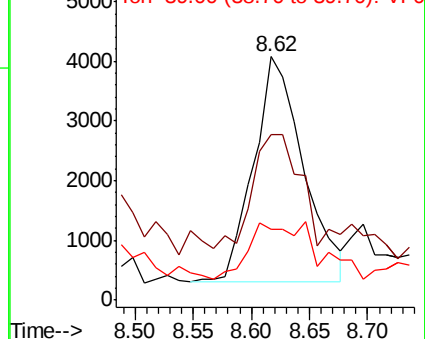
39 29.3 34.0 51.0#

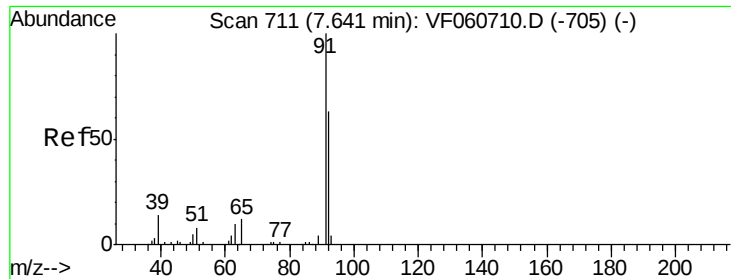


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

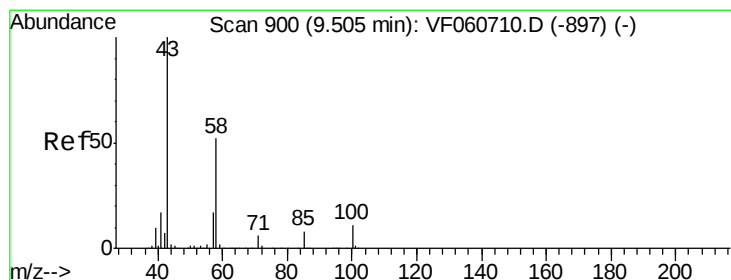
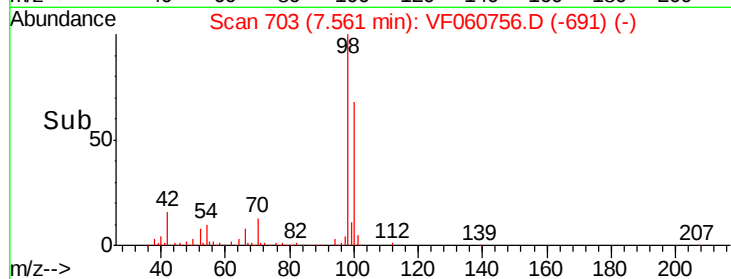
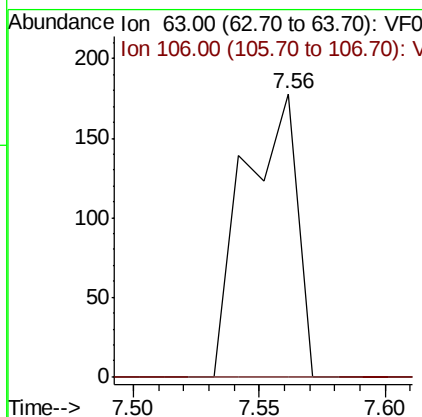
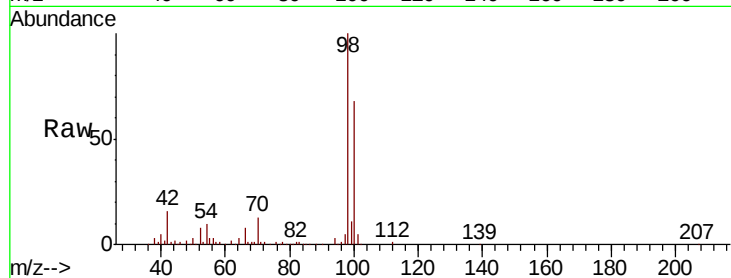




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.683 ug/l
 RT: 7.56 min Scan# 703
 Delta R.T. -0.08 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

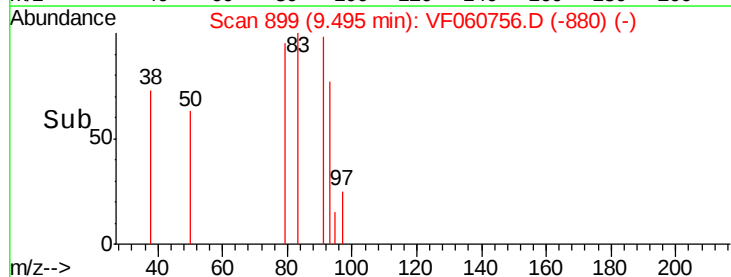
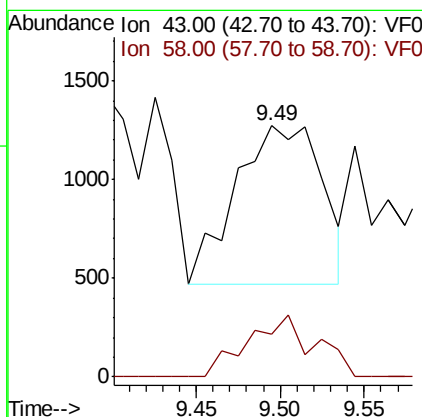
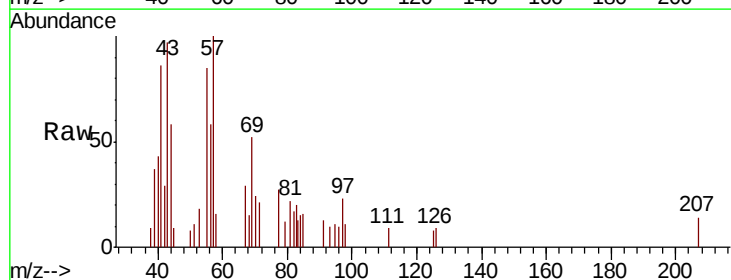
Instrument :
 MSVOA_F
 ClientSampleId :

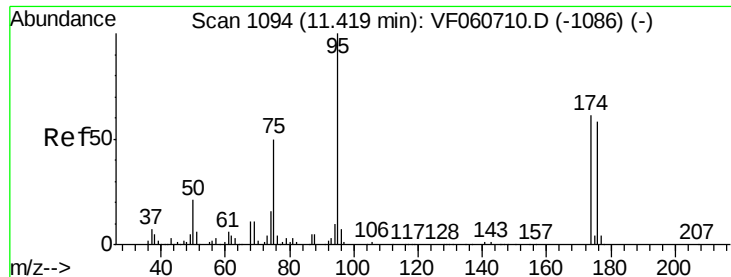
Tot Ion: 63 Resp: 260
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 3.301 ug/l
 RT: 9.49 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

Tgt Ion: 43 Resp: 2885
 Ion Ratio Lower Upper
 43 100
 58 16.9 24.9 74.7#

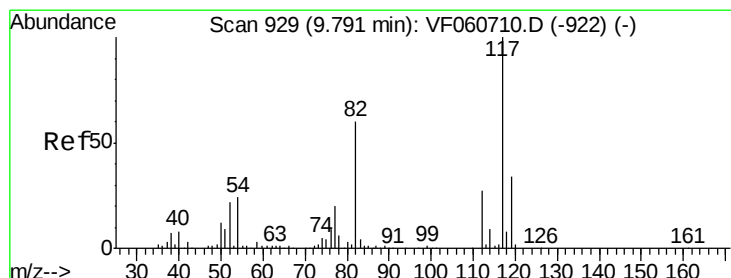
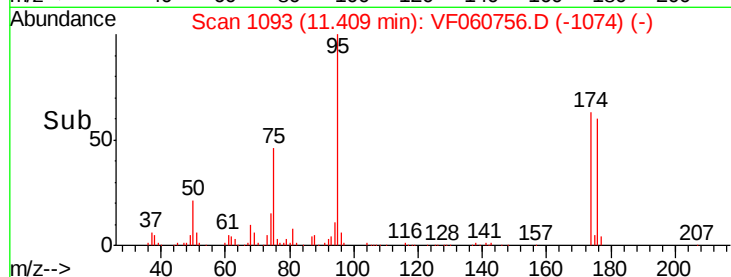
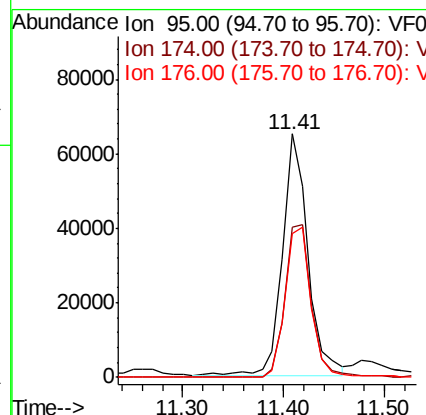
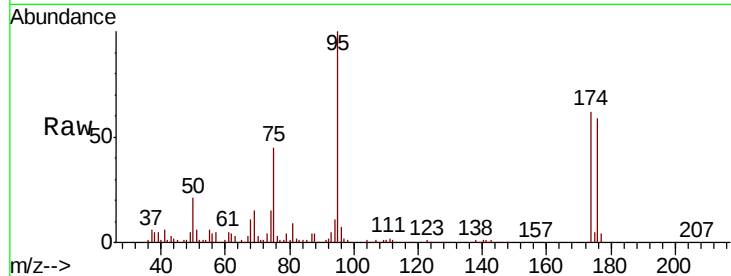




#62
4-Bromofluorobenzene
Concen: 41.283 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

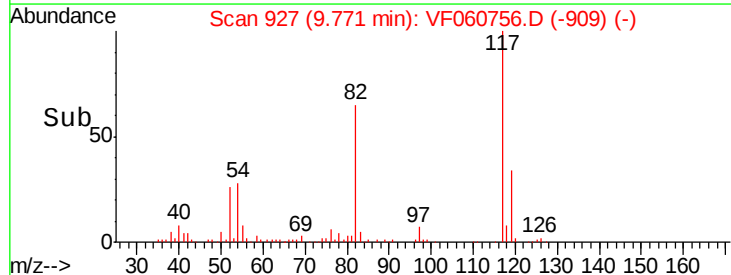
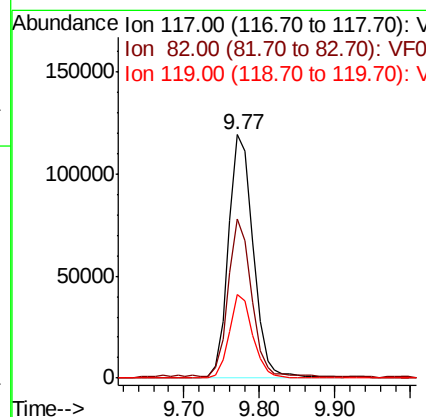
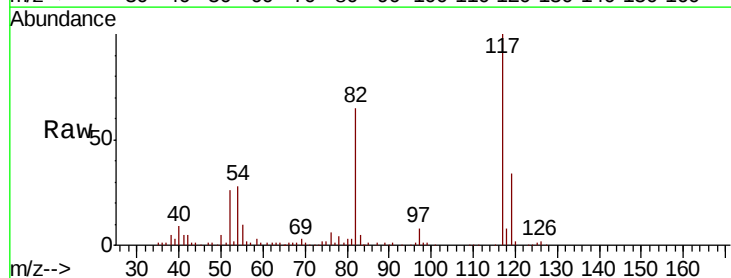
Instrument :
MSVOA_F
ClientSampled :

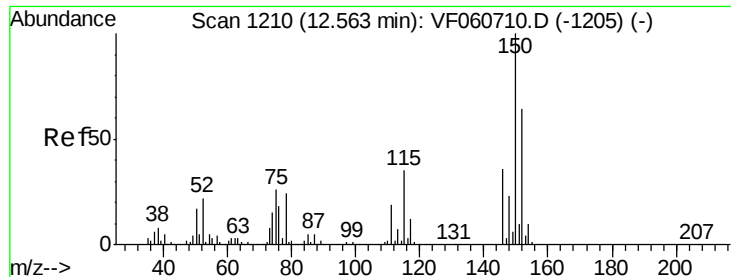
Tot Ion	95	Resp	112343
Ion Ratio	100		
Lower		0.0	121.6
Upper		0.0	115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF060756.D
Acq: 15 Nov 2018 19:43

Tgt Ion	117	Resp	271734
Ion Ratio	100		
Lower		47.9	71.9
Upper		26.8	40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

ClientSampleId :

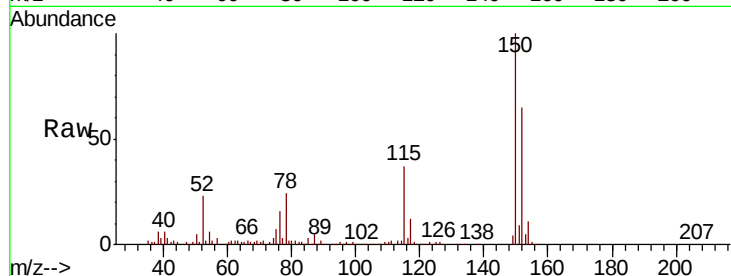
Tot Ion:152 Resp: 154993

Ion Ratio Lower Upper

152 100

115 57.0 27.9 83.7

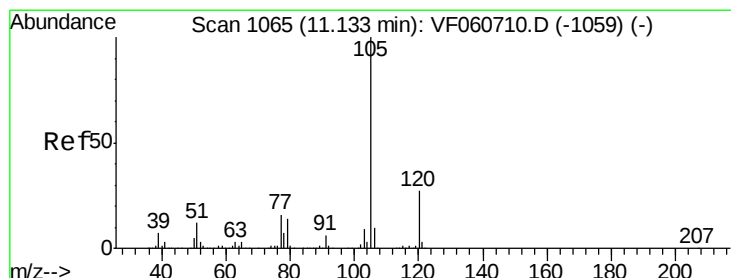
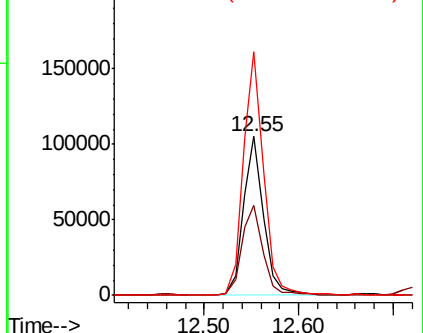
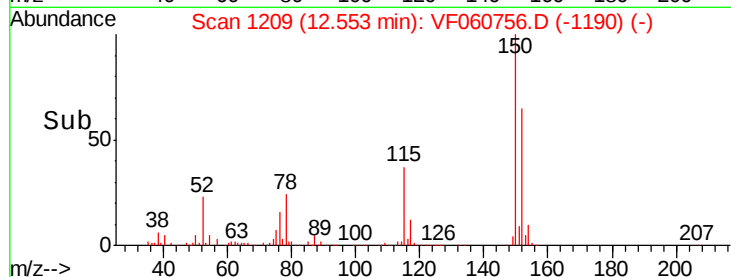
150 153.5 0.0 316.4



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: 1.638 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF060756.D

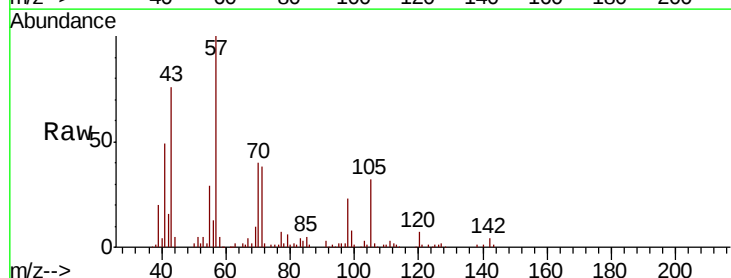
Acq: 15 Nov 2018 19:43

Tgt Ion:105 Resp: 20430

Ion Ratio Lower Upper

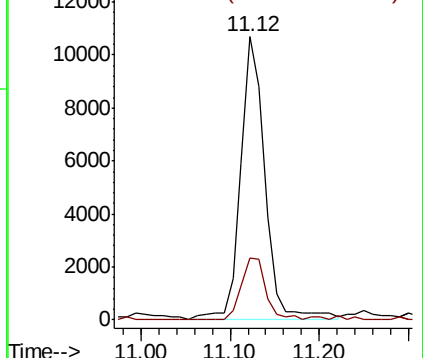
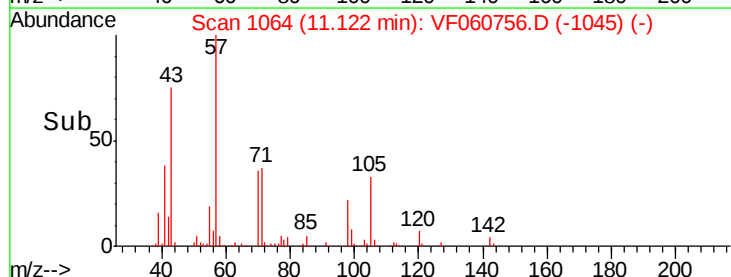
105 100

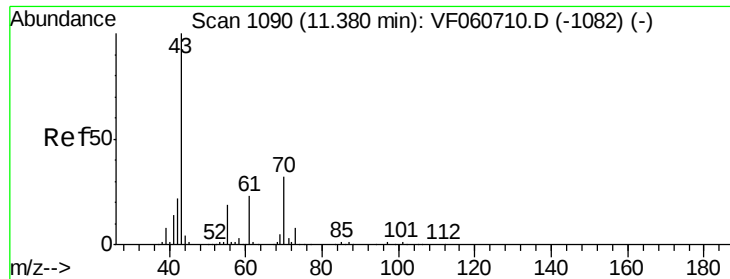
120 21.9 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.569 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.02 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 4456

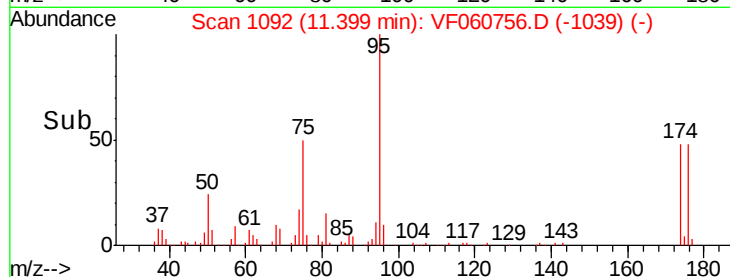
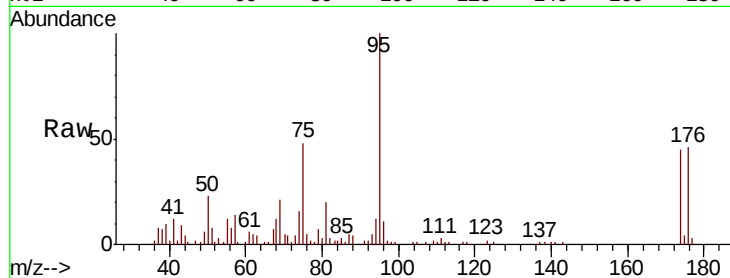
Ion Ratio Lower Upper

43 100

70 60.3 25.5 38.3#

55 132.4 14.9 22.3#

61 70.5 18.6 27.8#

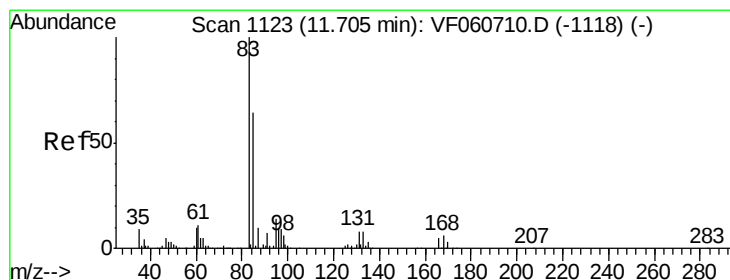
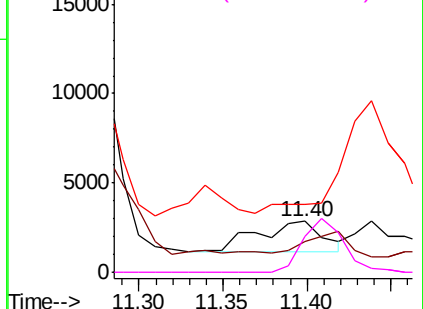


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 3.066 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

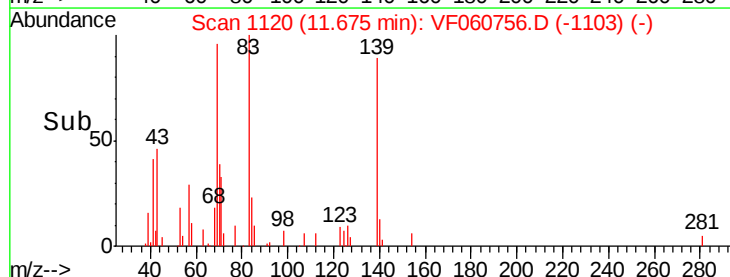
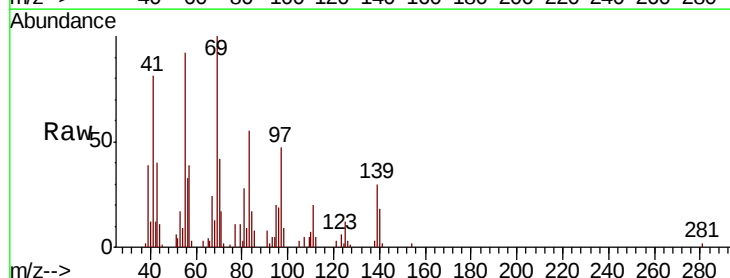
Tgt Ion: 83 Resp: 6324

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

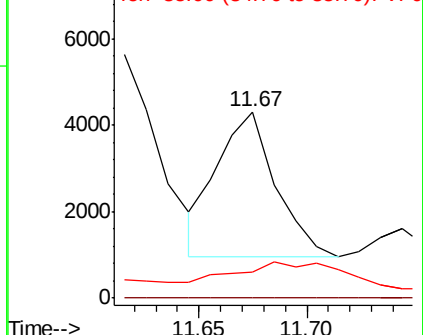
85 14.1 32.0 96.2#

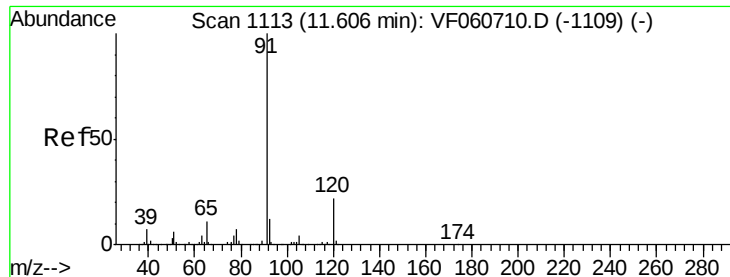


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#78

n-propylbenzene

Concen: 3.261 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

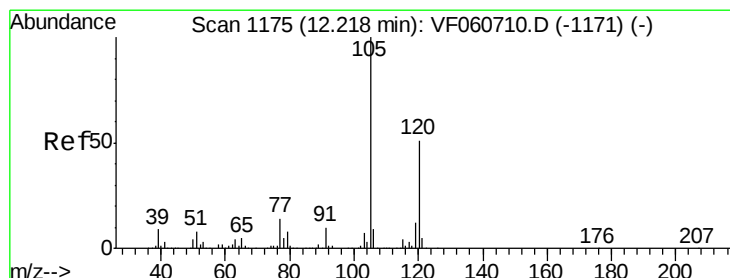
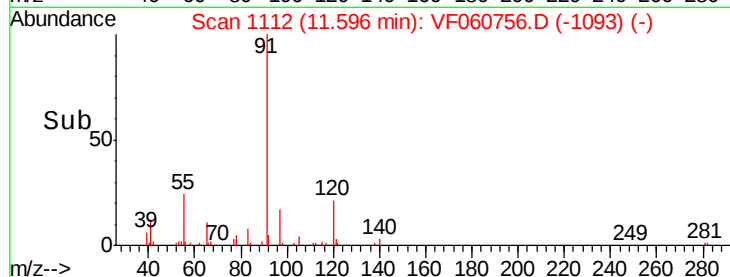
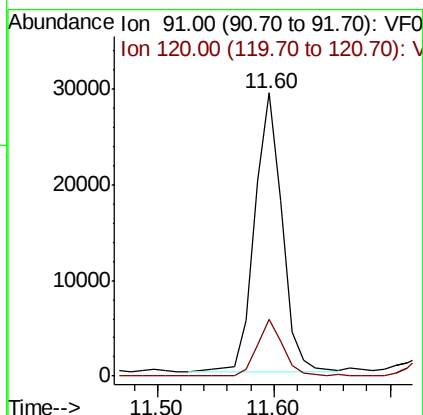
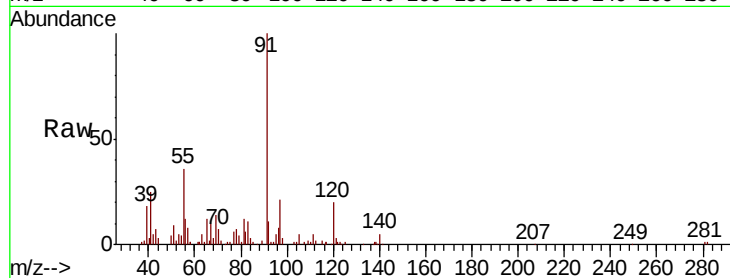
ClientSampleId :

Tot Ion: 91 Resp: 47444

Ion Ratio Lower Upper

91 100

120 20.1 11.2 33.5



#84

1,2,4-Trimethylbenzene

Concen: 1.286 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF060756.D

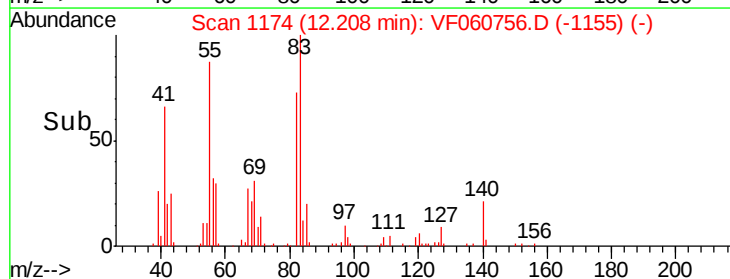
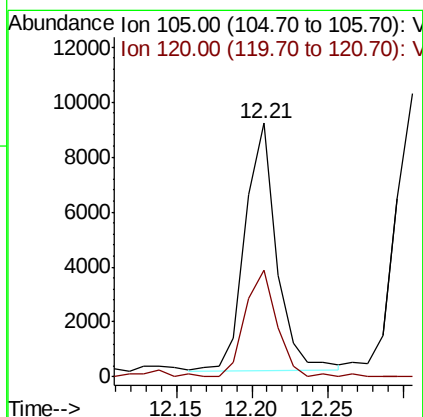
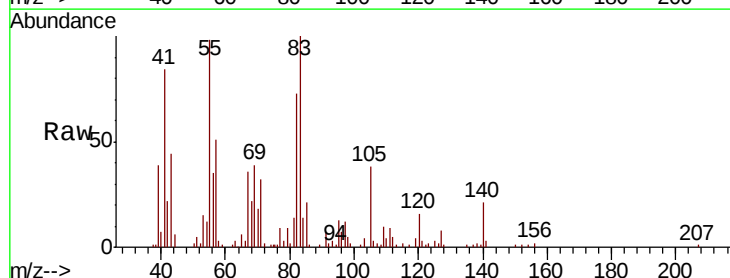
Acq: 15 Nov 2018 19:43

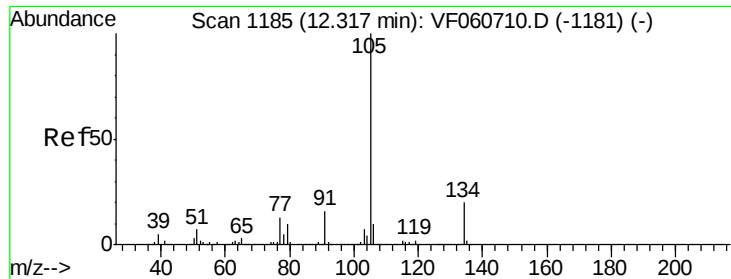
Tgt Ion:105 Resp: 13176

Ion Ratio Lower Upper

105 100

120 42.0 25.5 76.5

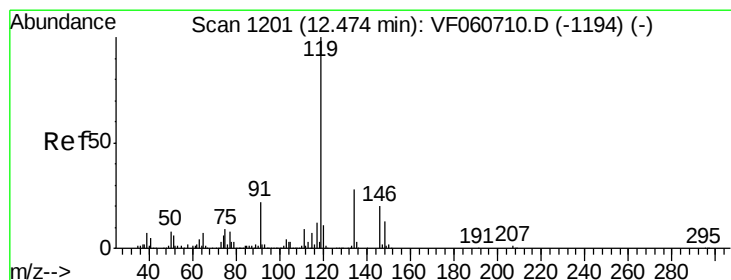
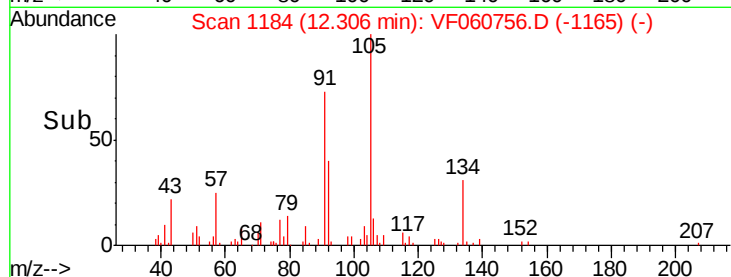
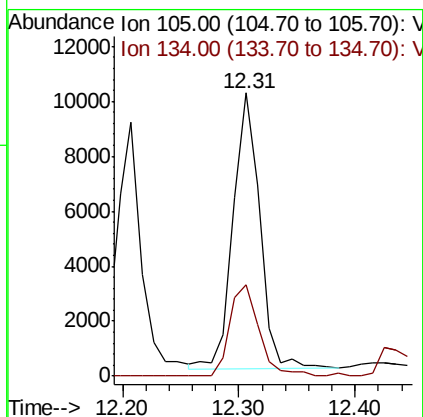
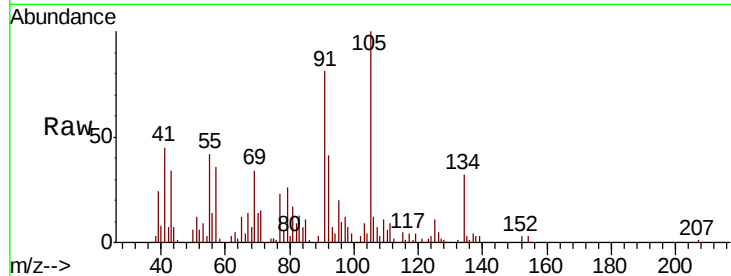




#85
 sec-Butylbenzene
 Concen: 1.113 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

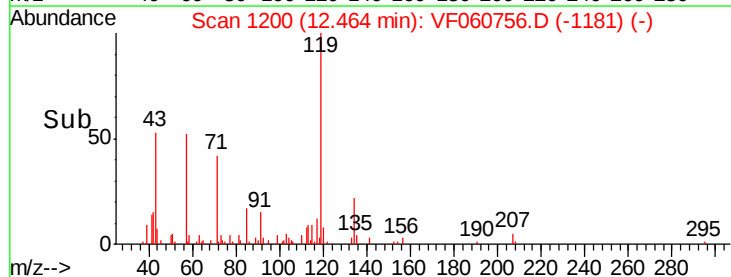
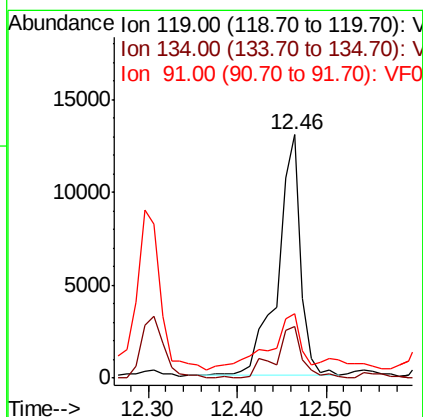
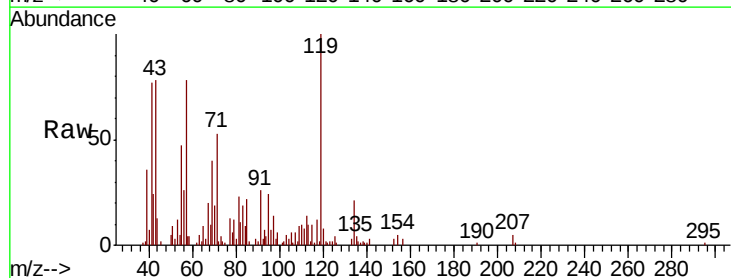
Instrument :
 MSVOA_F
 ClientSampled :

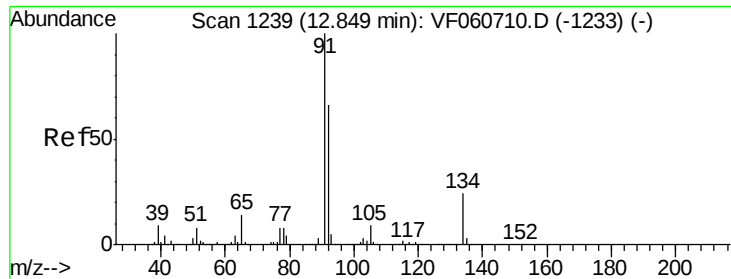
Tot Ion:105 Resp: 15883
 Ion Ratio Lower Upper
 105 100
 134 32.1 10.1 30.3#



#86
 p-Isopropyltoluene
 Concen: 1.980 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060756.D
 Acq: 15 Nov 2018 19:43

Tgt Ion:119 Resp: 23586
 Ion Ratio Lower Upper
 119 100
 134 21.3 13.9 41.7
 91 26.3 11.3 33.9





#89

n-Butylbenzene

Concen: 1.962 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Instrument :

MSVOA_F

ClientSampled :

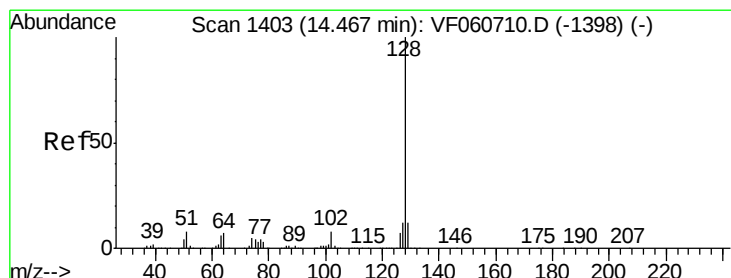
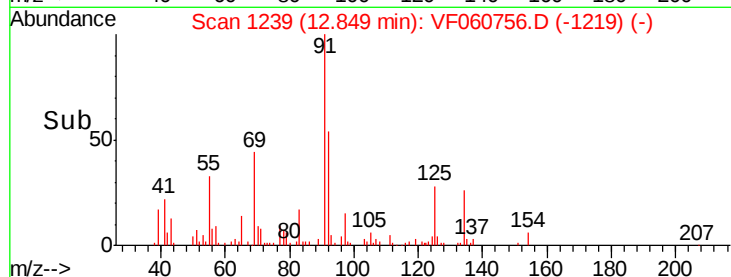
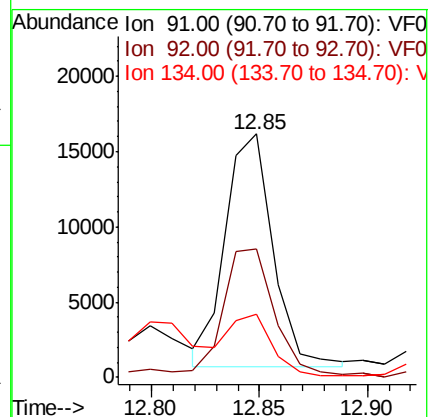
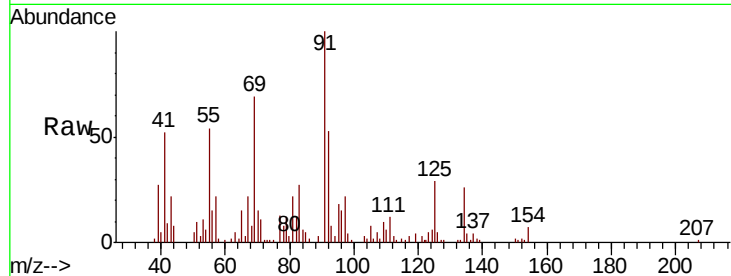
Tot Ion: 91 Resp: 23851

Ion Ratio Lower Upper

91 100

92 52.7 33.1 99.2

134 26.0 11.9 35.9



#95

Naphthalene

Concen: 2.765 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060756.D

Acq: 15 Nov 2018 19:43

Tgt Ion:128 Resp: 17643

Ion Ratio Lower Upper

128 100

127 14.5 9.8 14.6

129 12.9 9.3 13.9

