

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060767.D
 Acq On : 16 Nov 2018 16:30
 Operator : VA/AP
 Sample : J5942-01RE
 Misc : 6.41g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VW-D1

Quant Time: Nov 17 04:22:55 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	179697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	295936	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	232360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	84133	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	87676	42.78	ug/l	0.00
Spiked Amount			Recovery	=	85.56%	
35) Dibromofluoromethane	4.12	113	101759	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	
50) Toluene-d8	7.57	98	225104	38.60	ug/l	0.00
Spiked Amount			Recovery	=	77.20%	
62) 4-Bromofluorobenzene	11.42	95	80933	29.05	ug/l	0.00
Spiked Amount			Recovery	=	58.10%	

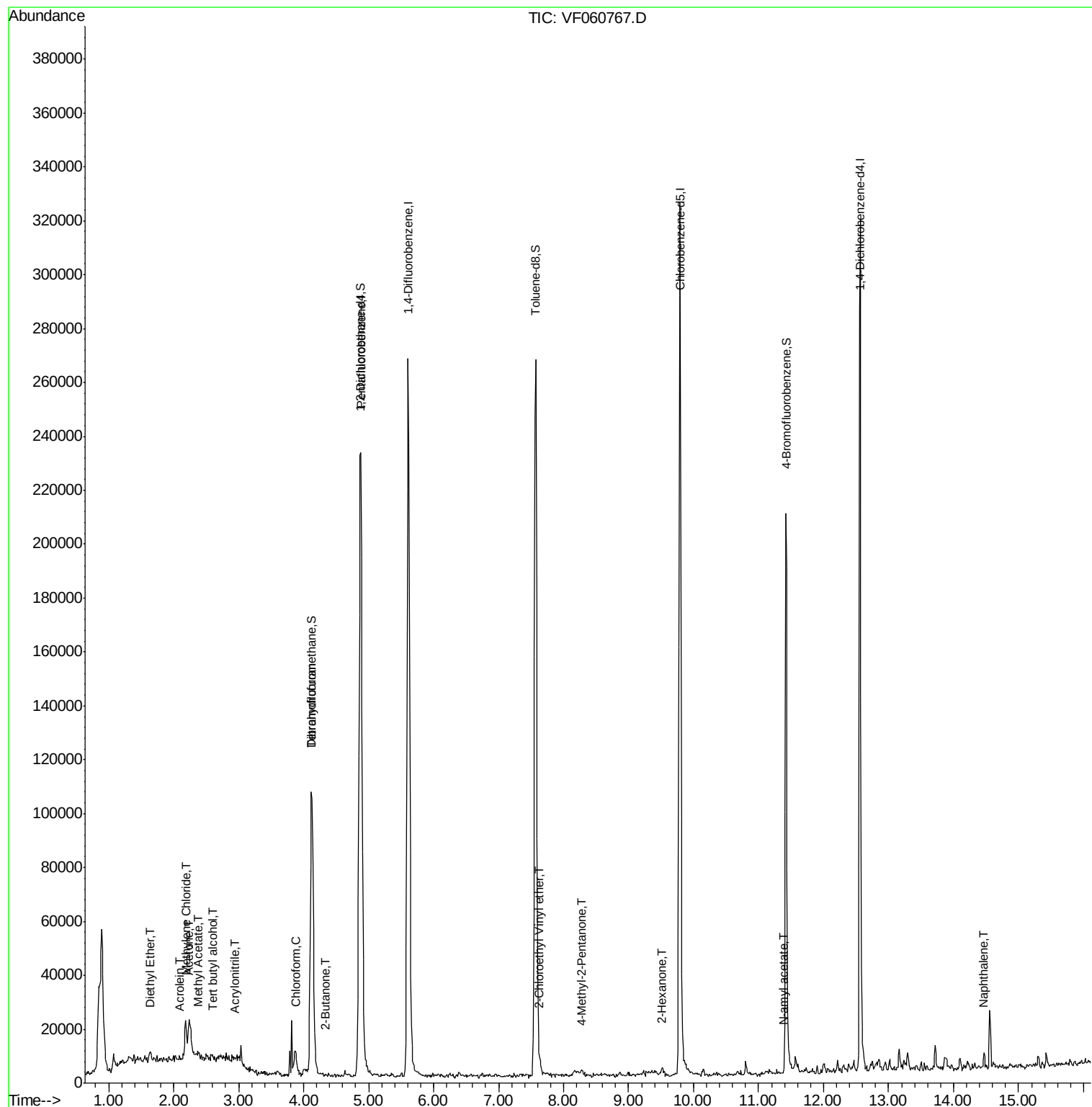
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1336	2.643	ug/l	92
11) Tert butyl alcohol	2.60	59	149	1.597	ug/l #	1
13) Acrolein	2.09	56	956	11.209	ug/l	88
15) Acrylonitrile	2.96	53	441	2.219	ug/l #	53
16) Acetone	2.25	43	7848	17.914	ug/l	98
18) Methyl Acetate	2.37	43	1824	2.536	ug/l #	64
20) Methylene Chloride	2.19	84	6054	1.376	ug/l	99
25) 2-Butanone	4.35	43	1875	2.602	ug/l #	56
29) Tetrahydrofuran	4.13	42	896	3.014	ug/l #	36
30) Chloroform	3.87	83	10721	2.226	ug/l	99
41) Methacrylonitrile	4.76	41	469	Below Cal	#	45
51) 4-Methyl-2-Pentanone	8.28	43	2975	2.431	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.63	63	193	1.270	ug/l	100
59) 2-Hexanone	9.52	43	3428	3.986	ug/l #	63
74) N-amyl acetate	11.38	43	2334	1.514	ug/l #	53
95) Naphthalene	14.47	128	3770	1.088	ug/l #	89

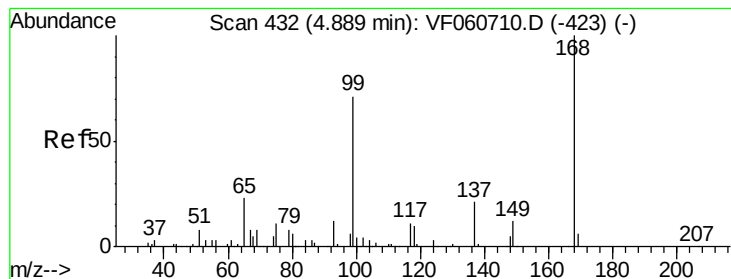
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

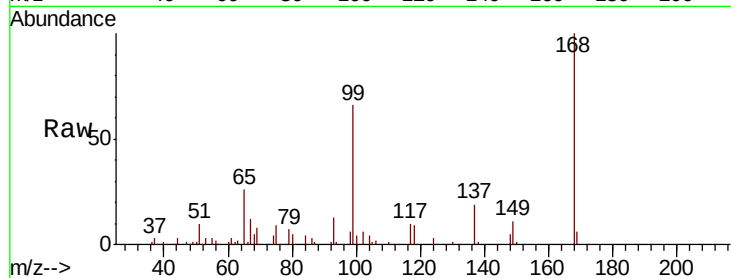
VW-D1

Tot Ion:168 Resp: 179697

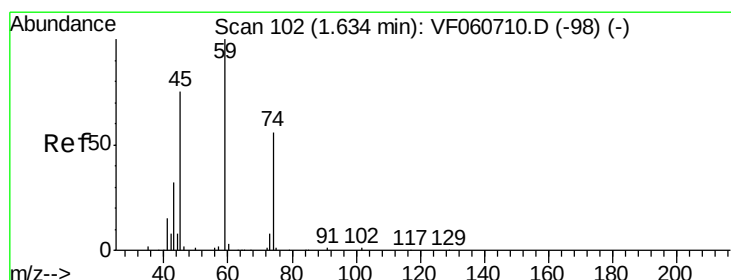
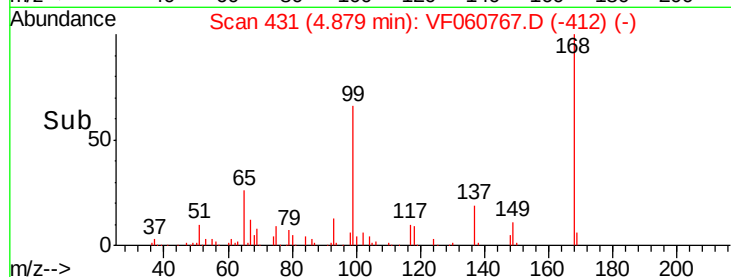
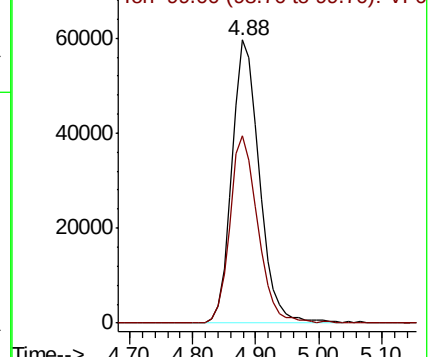
Ion Ratio Lower Upper

168 100

99 66.2 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 2.643 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060767.D

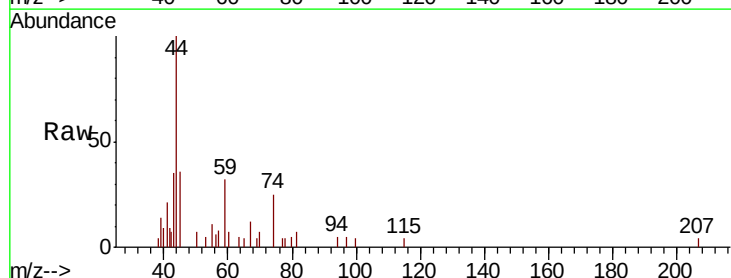
Acq: 16 Nov 2018 16:30

Tgt Ion: 74 Resp: 1336

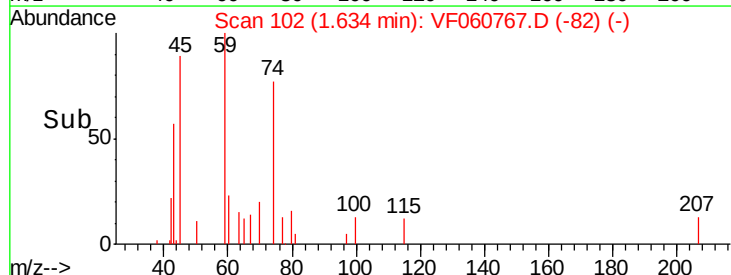
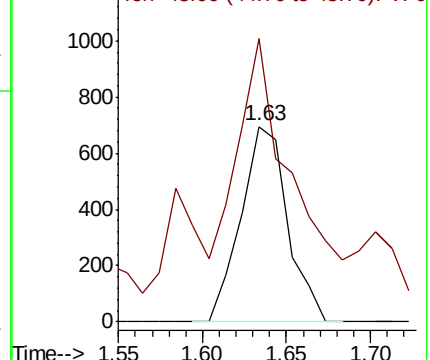
Ion Ratio Lower Upper

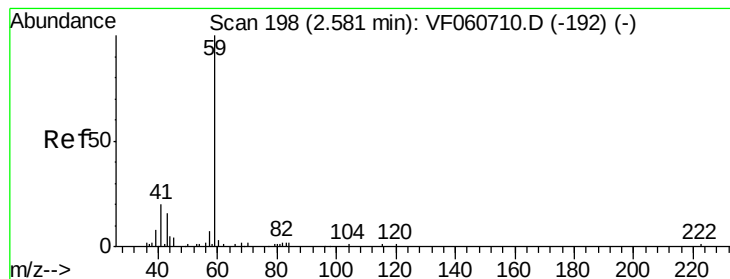
74 100

45 144.7 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0





#11

Tert butyl alcohol

Concen: 1.597 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

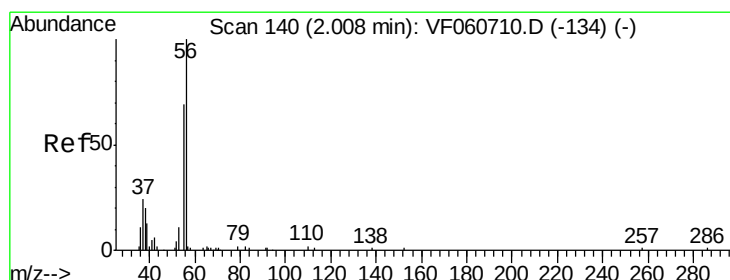
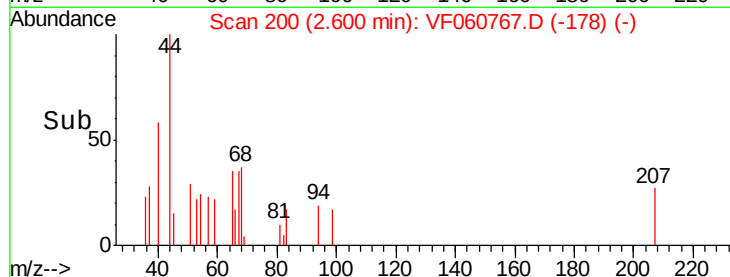
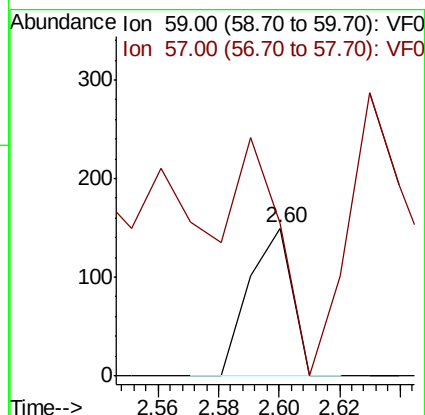
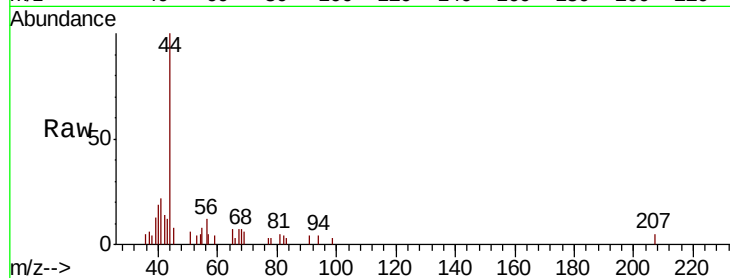
VW-D1

Tot Ion: 59 Resp: 149

Ion Ratio Lower Upper

59 100

57 103.3 10.5 15.7#



#13

Acrolein

Concen: 11.209 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.08 min

Lab File: VF060767.D

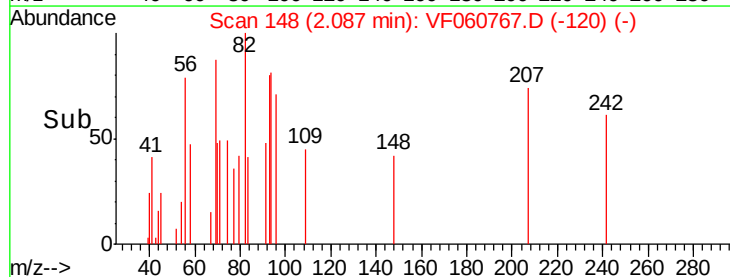
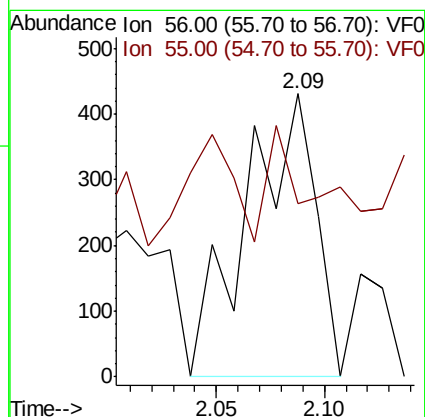
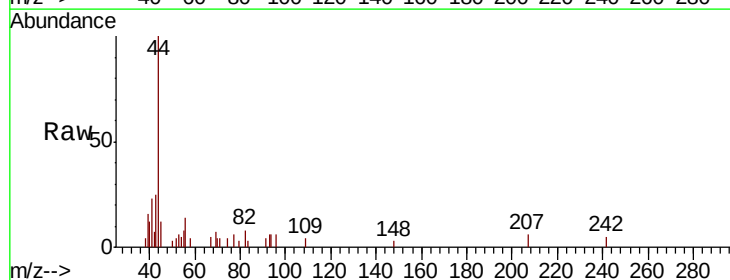
Acq: 16 Nov 2018 16:30

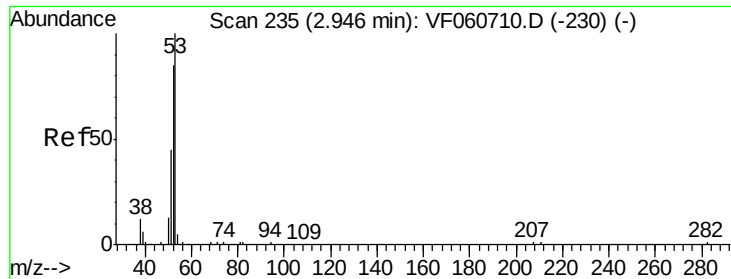
Tgt Ion: 56 Resp: 956

Ion Ratio Lower Upper

56 100

55 61.0 56.6 85.0





#15

Acrylonitrile

Concen: 2.219 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

VW-D1

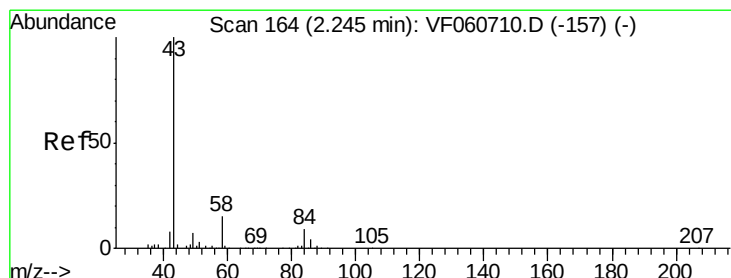
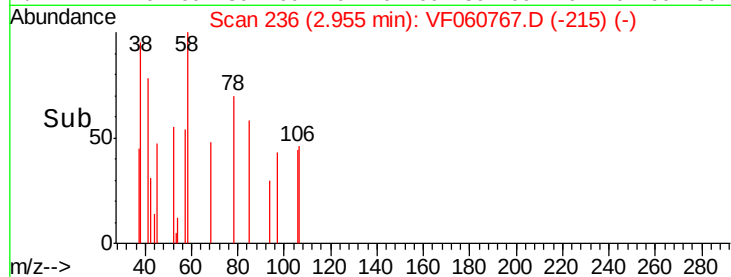
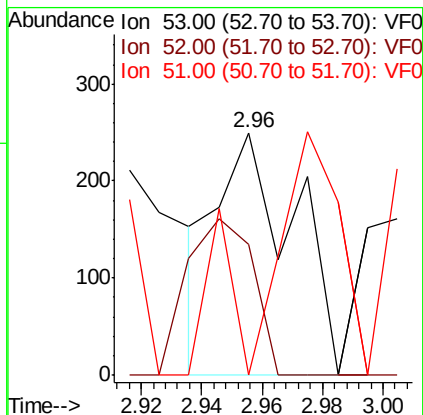
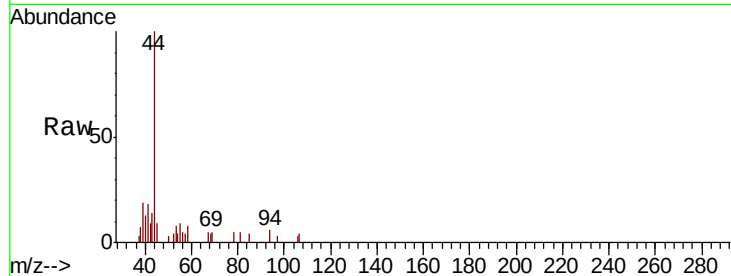
Tot Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 54.0 68.8 103.2#

51 0.0 36.7 55.1#



#16

Acetone

Concen: 17.914 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.00 min

Lab File: VF060767.D

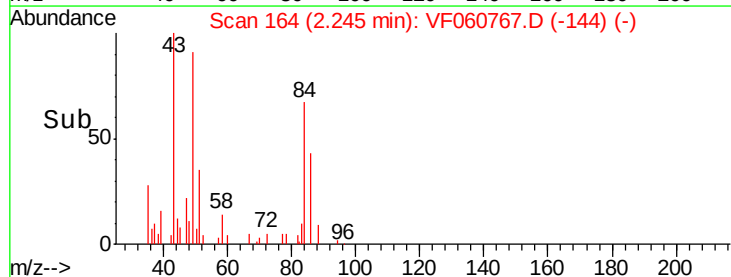
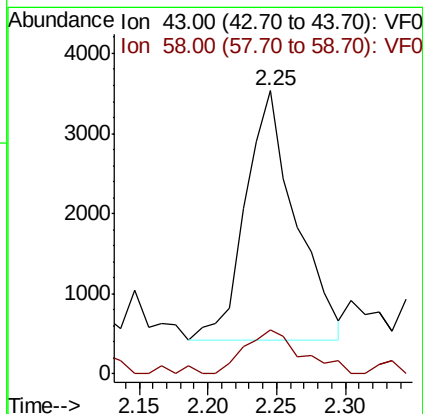
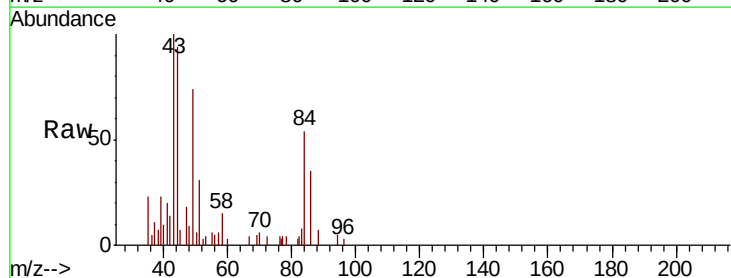
Acq: 16 Nov 2018 16:30

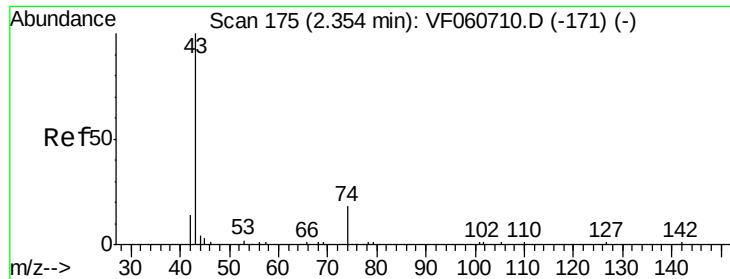
Tgt Ion: 43 Resp: 7848

Ion Ratio Lower Upper

43 100

58 15.4 11.6 17.4

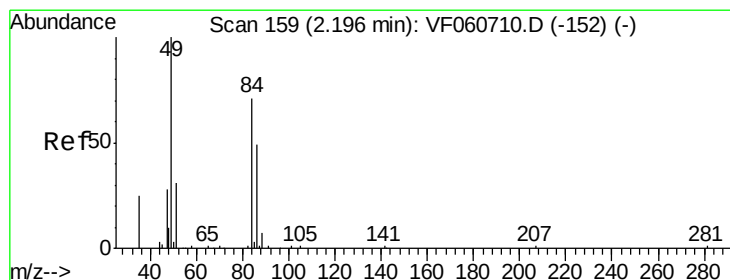
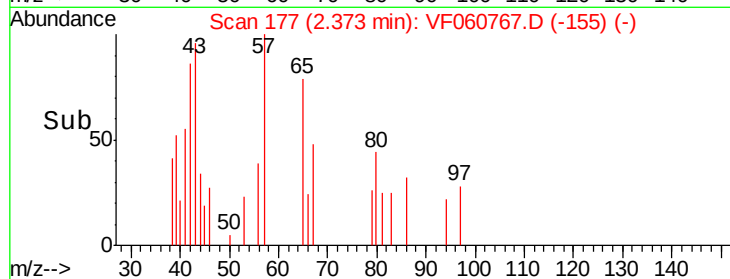
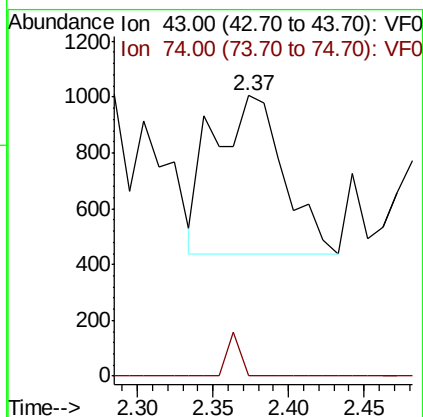
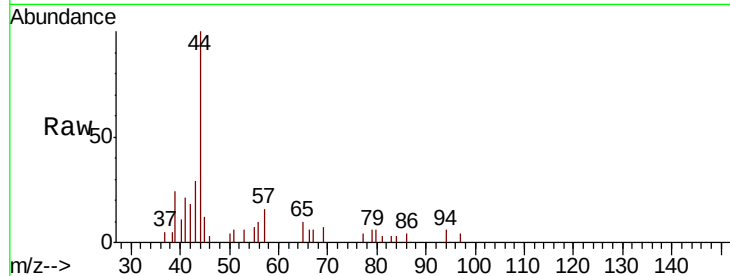




#18
Methyl Acetate
Concen: 2.536 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

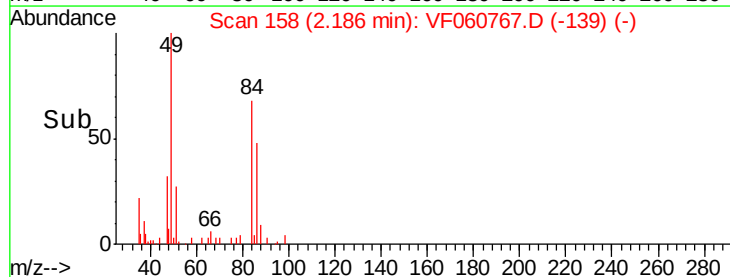
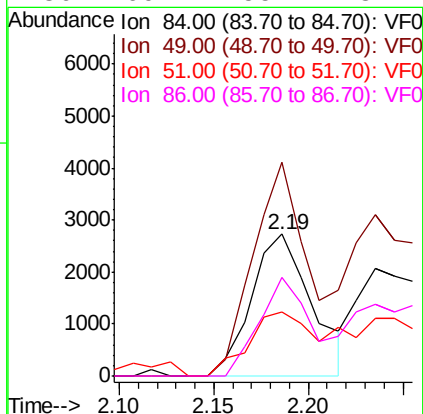
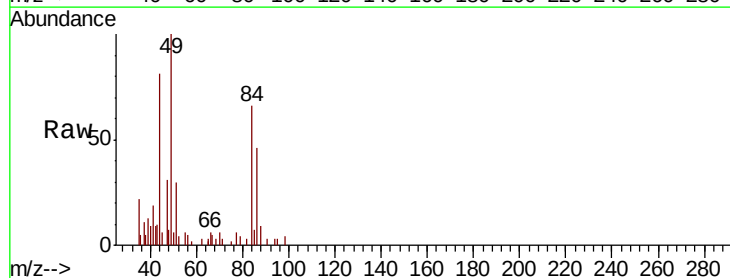
Instrument :
MSVOA_F
ClientSampleID :
VW-D1

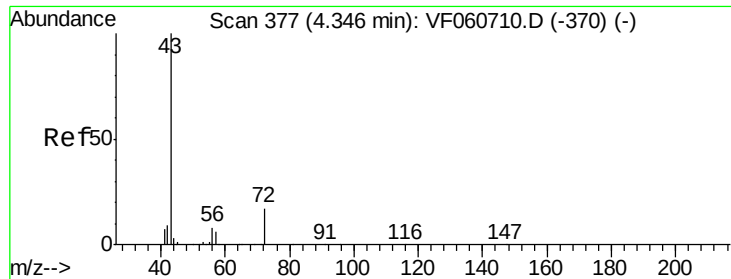
Tot Ion: 43 Resp: 1824
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: 1.376 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

Tgt Ion: 84 Resp: 6054
Ion Ratio Lower Upper
84 100
49 150.4 120.2 180.4
51 45.3 37.2 55.8
86 69.7 55.1 82.7





#25

2-Butanone

Concen: 2.602 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

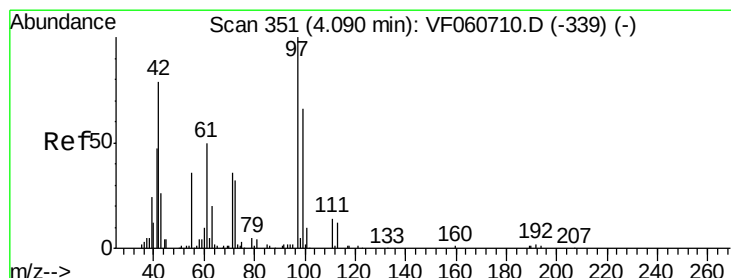
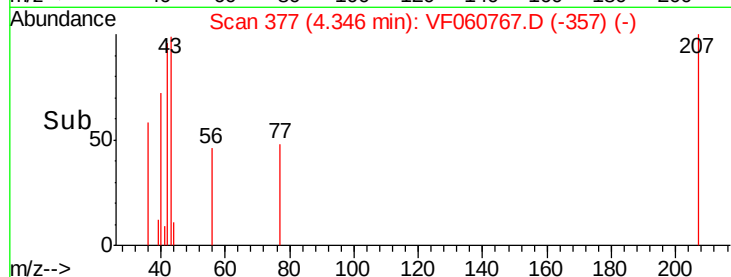
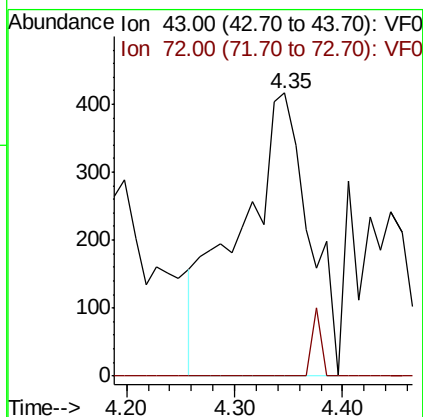
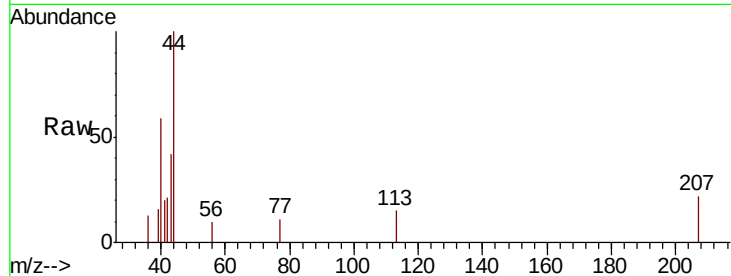
VW-D1

Tot Ion: 43 Resp: 1875

Ion Ratio Lower Upper

43 100

72 0.0 16.1 24.1#



#29

Tetrahydrofuran

Concen: 3.014 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.04 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

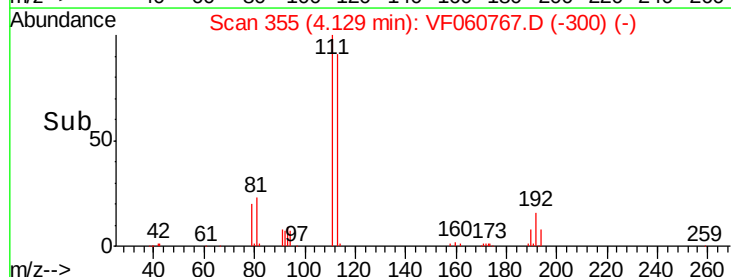
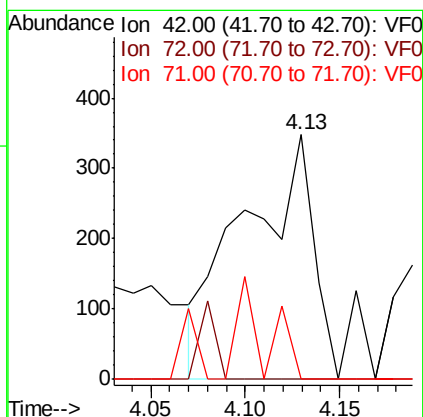
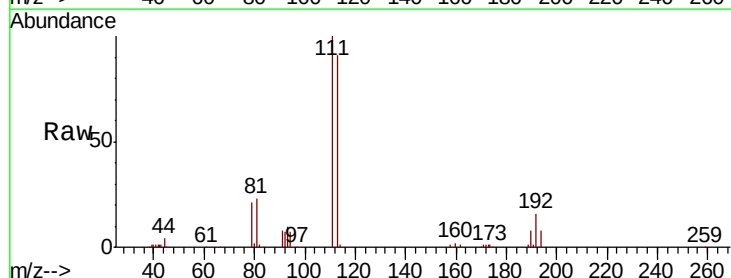
Tgt Ion: 42 Resp: 896

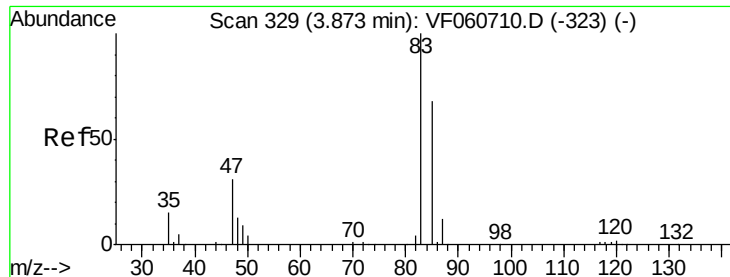
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 32.2 48.2#

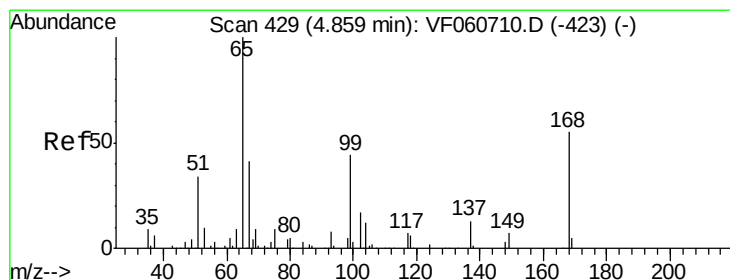
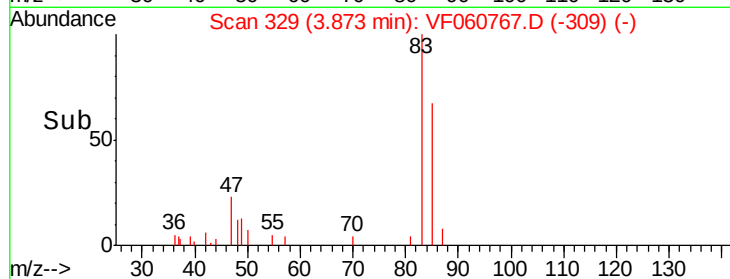
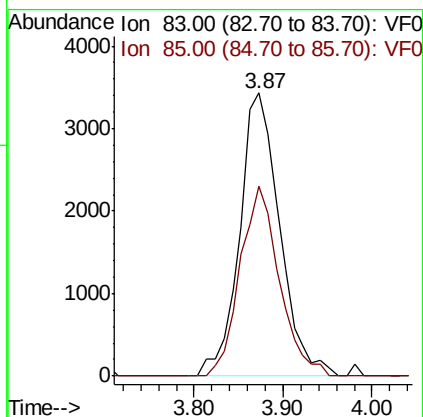
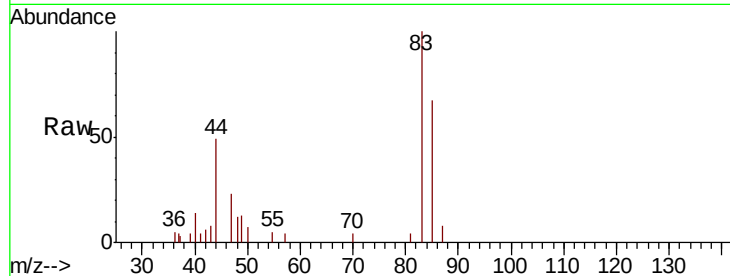




#30
Chloroform
Concen: 2.226 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.00 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

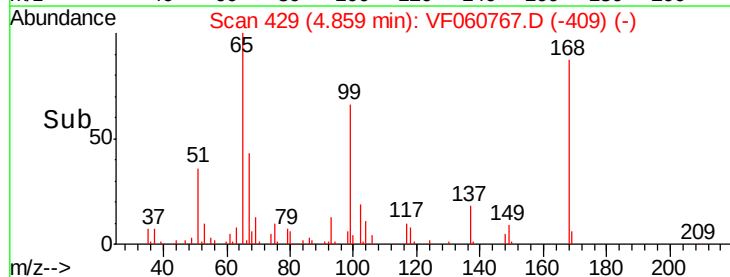
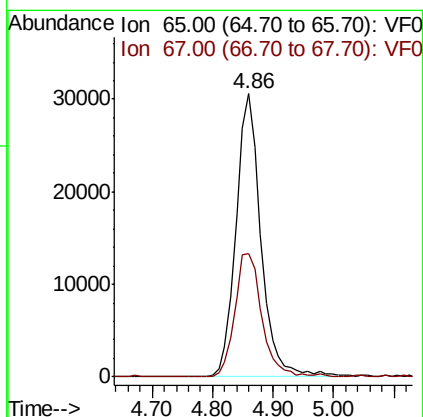
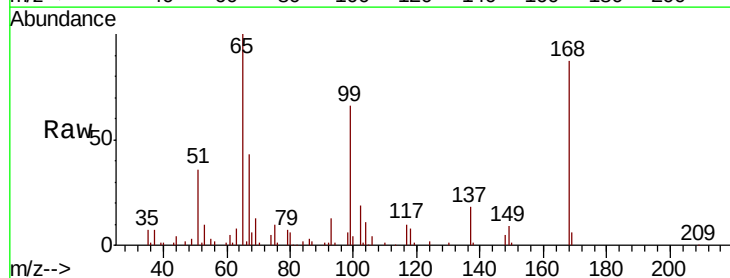
Instrument :
MSVOA_F
ClientSampleId :
VW-D1

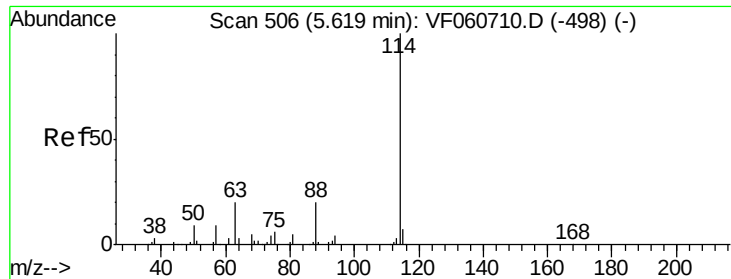
Tot Ion: 83 Resp: 10721
Ion Ratio Lower Upper
83 100
85 67.2 54.6 82.0



#33
1,2-Dichloroethane-d4
Concen: 42.776 ug/l
RT: 4.86 min Scan# 429
Delta R.T. 0.00 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

Tgt Ion: 65 Resp: 87676
Ion Ratio Lower Upper
65 100
67 43.5 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampled :

VW-D1

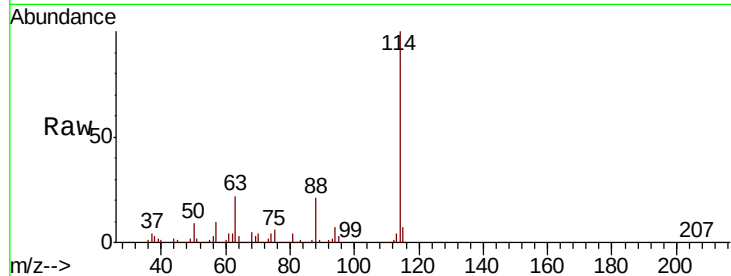
Tot Ion:114 Resp: 295936

Ion Ratio Lower Upper

114 100

63 22.1 0.0 40.8

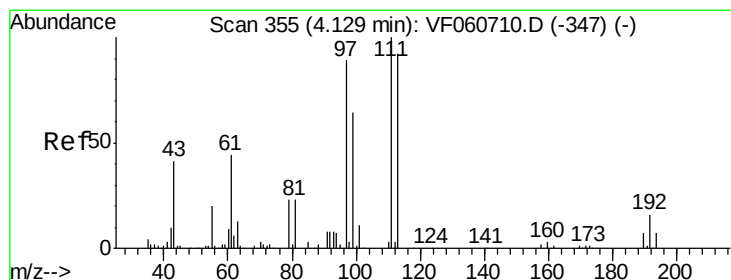
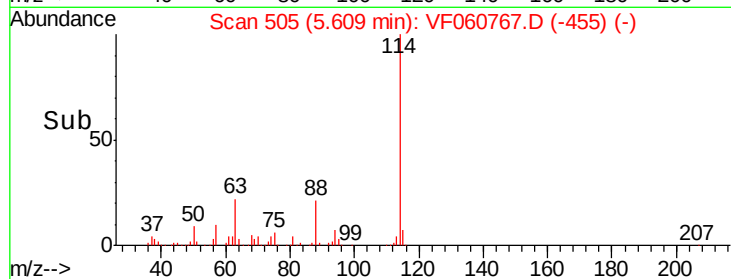
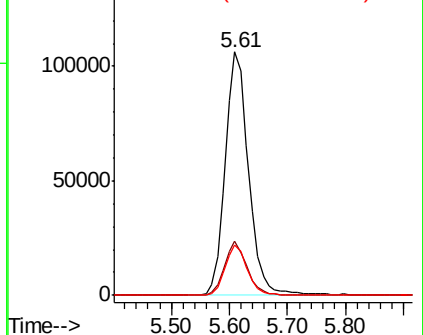
88 20.6 0.0 39.6



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: 45.744 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

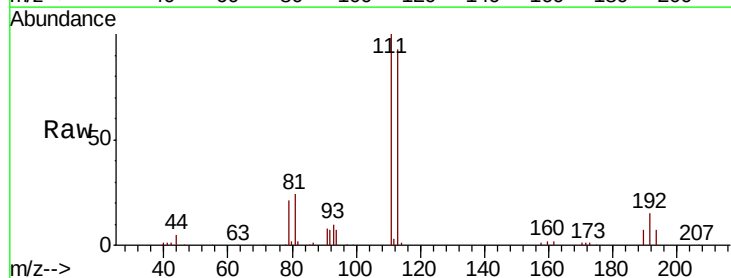
Tgt Ion:113 Resp: 101759

Ion Ratio Lower Upper

113 100

111 108.0 87.1 130.7

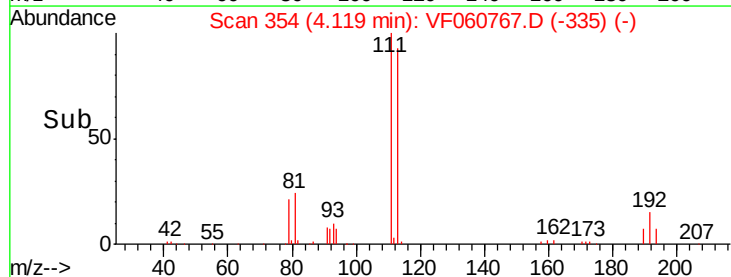
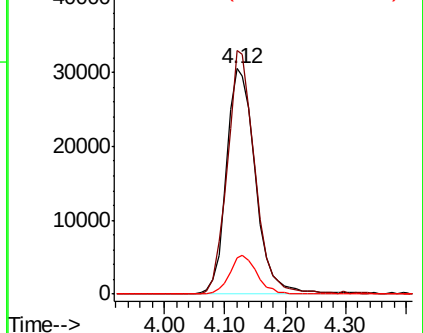
192 16.3 13.8 20.6

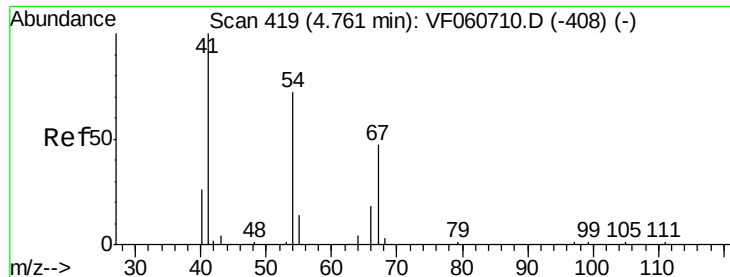


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.76 min Scan# 419

Delta R.T. 0.00 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

VW-D1

Tot Ion: 41 Resp: 469

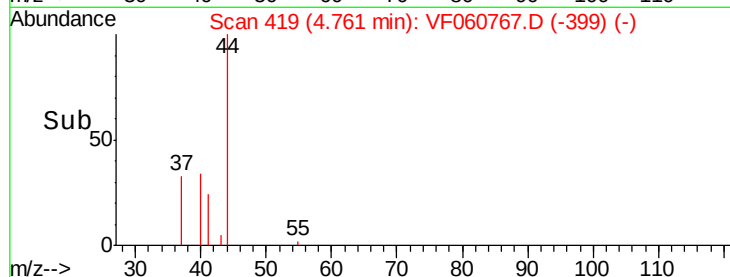
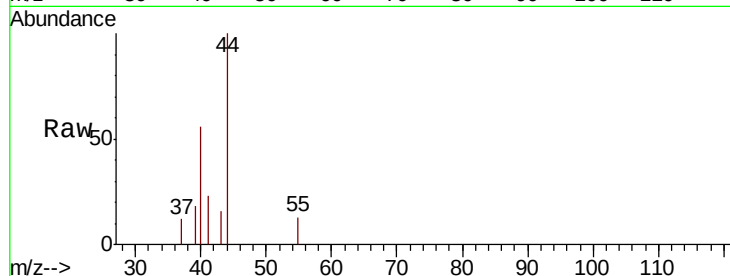
Ion Ratio Lower Upper

41 100

39 80.4 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

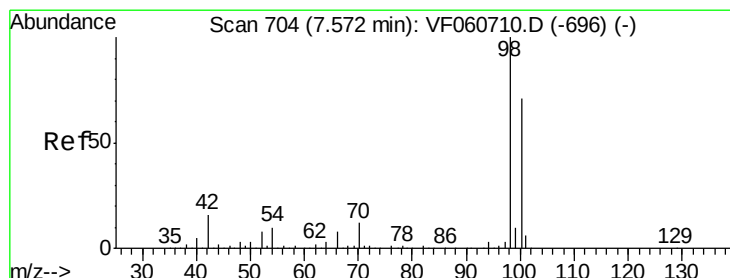
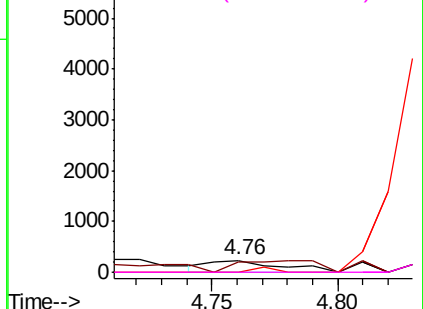


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 38.595 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF060767.D

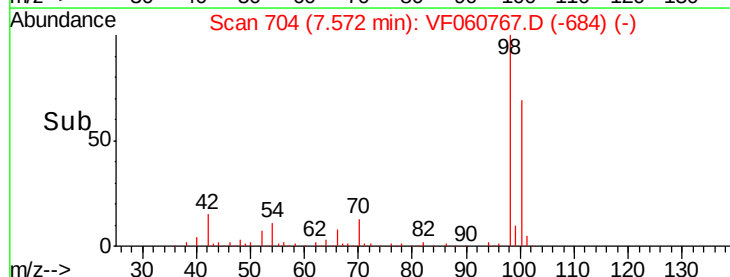
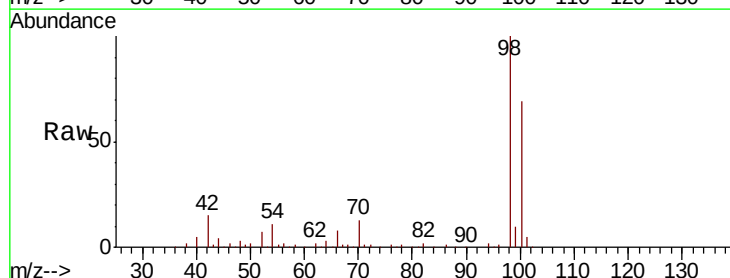
Acq: 16 Nov 2018 16:30

Tgt Ion: 98 Resp: 225104

Ion Ratio Lower Upper

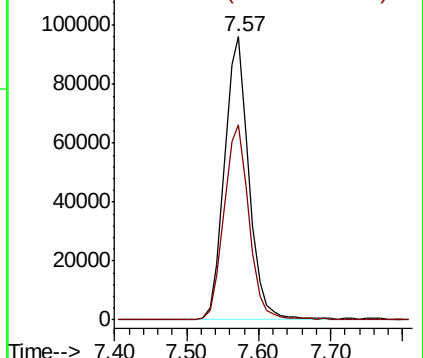
98 100

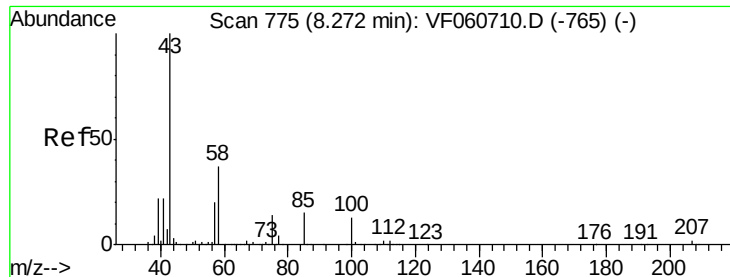
100 69.0 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.431 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampled :

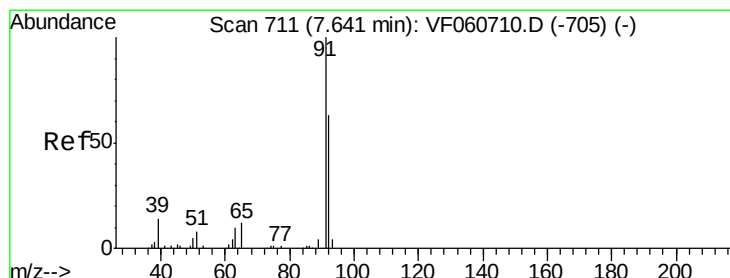
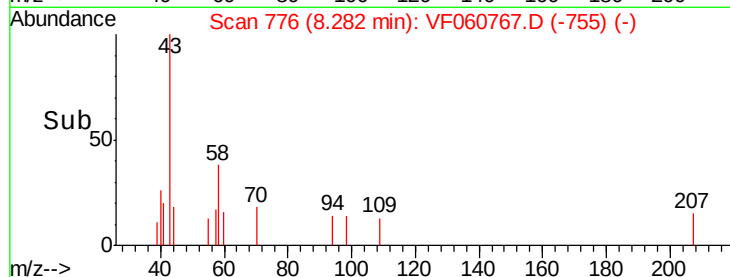
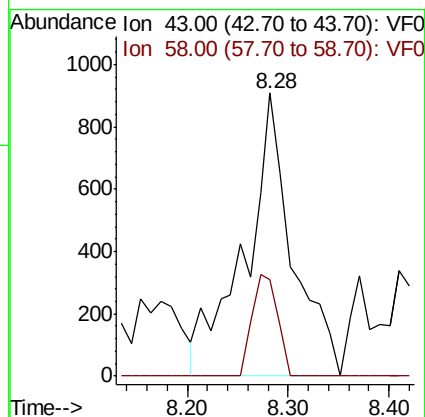
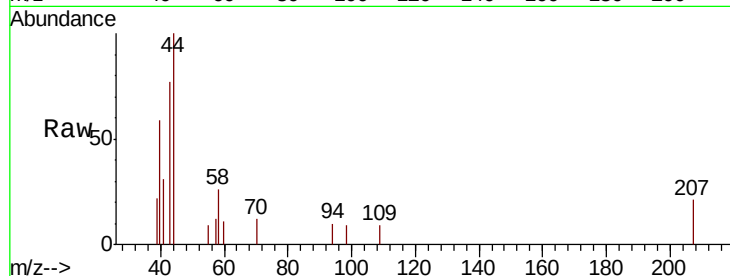
VW-D1

Tot Ion: 43 Resp: 2975

Ion Ratio Lower Upper

43 100

58 33.9 29.2 43.8



#58

2-Chloroethyl Vinyl ether

Concen: 1.270 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060767.D

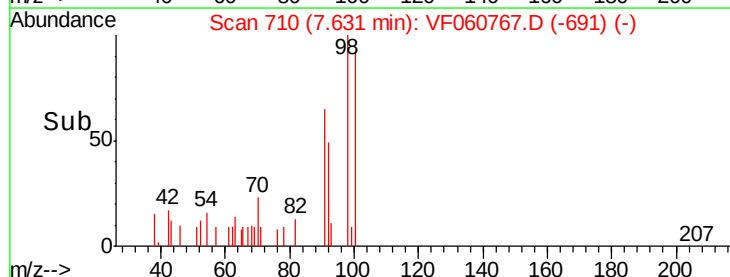
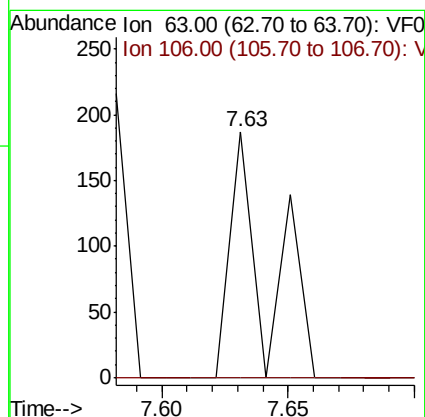
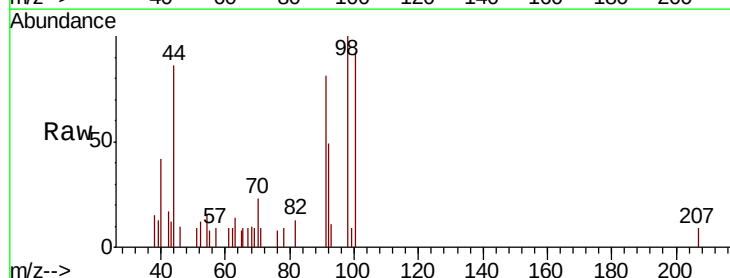
Acq: 16 Nov 2018 16:30

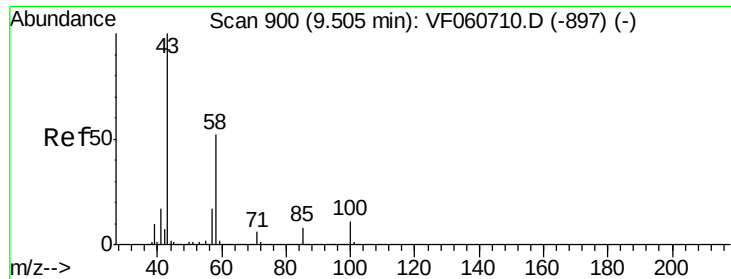
Tgt Ion: 63 Resp: 193

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

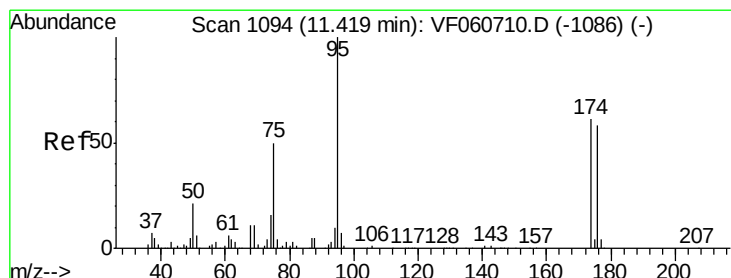
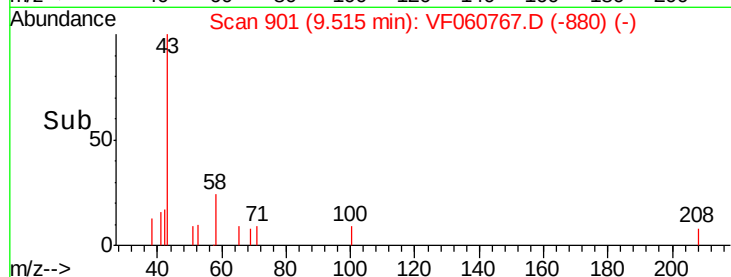
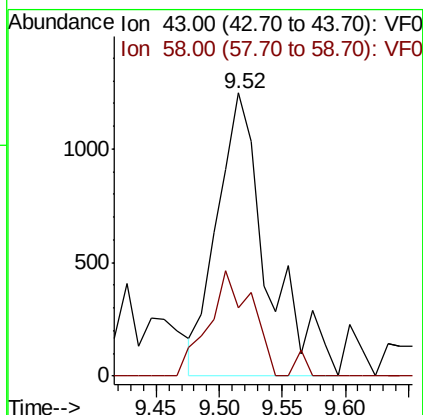
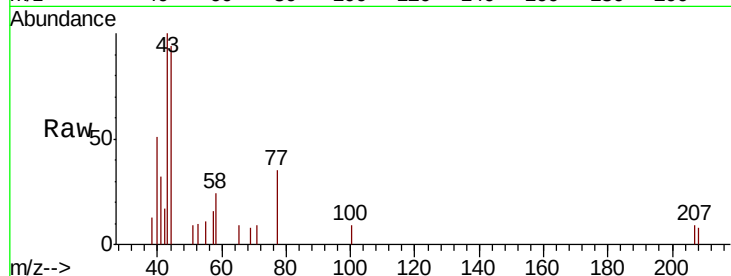




#59
2-Hexanone
Concen: 3.986 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.01 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

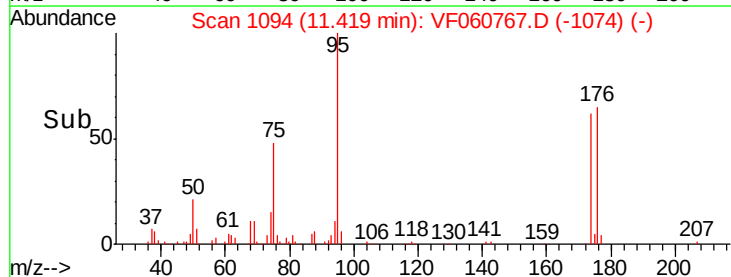
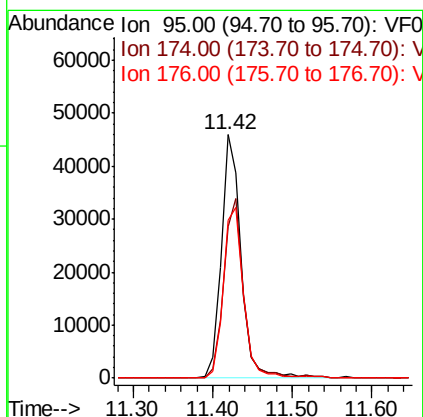
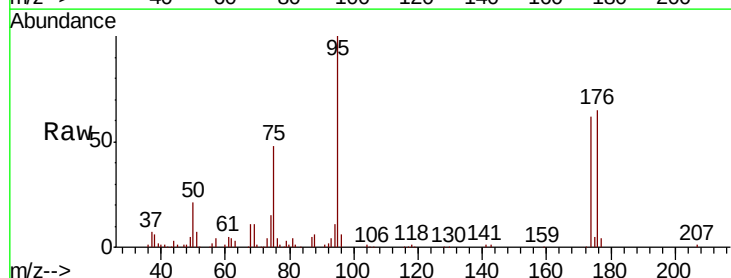
Instrument :
MSVOA_F
ClientSampled :
VW-D1

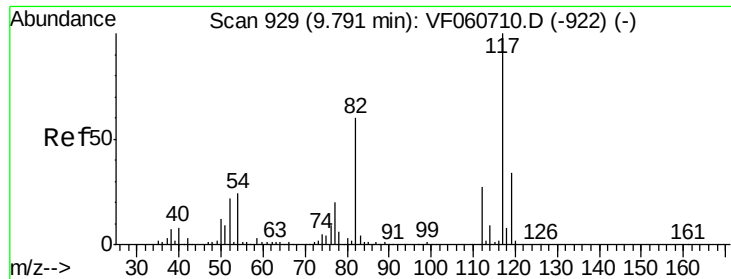
Tot Ion: 43 Resp: 3428
Ion Ratio Lower Upper
43 100
58 24.2 24.9 74.7#



#62
4-Bromofluorobenzene
Concen: 29.049 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

Tgt Ion: 95 Resp: 80933
Ion Ratio Lower Upper
95 100
174 62.3 0.0 121.6
176 64.9 0.0 115.2

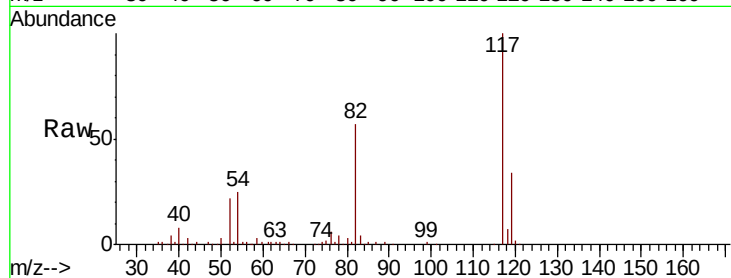




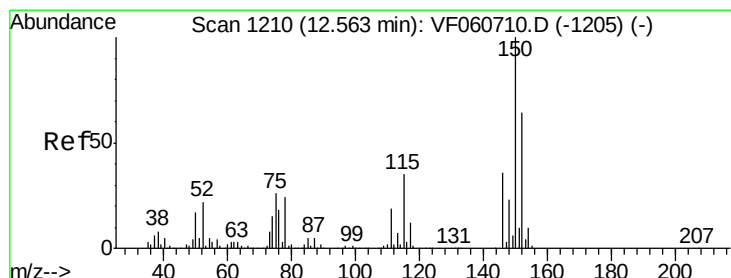
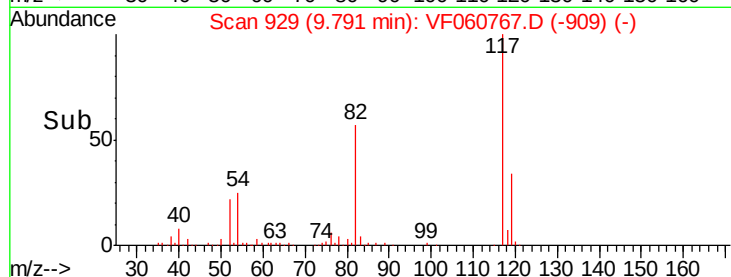
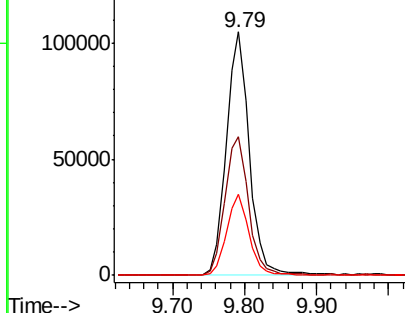
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

Instrument :
MSVOA_F
ClientSampled :
VW-D1

Tot Ion:117 Resp: 232360
Ion Ratio Lower Upper
117 100
82 56.9 47.9 71.9
119 33.5 26.8 40.2

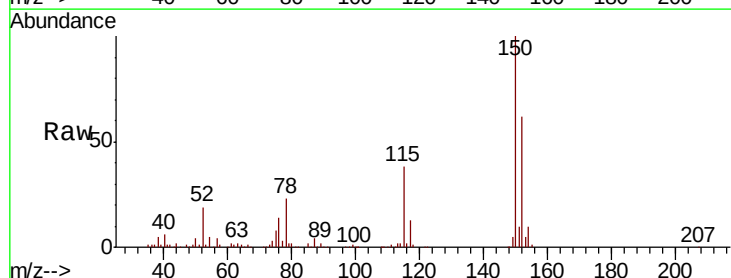


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

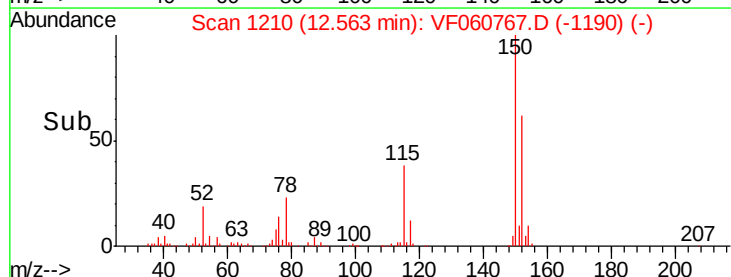
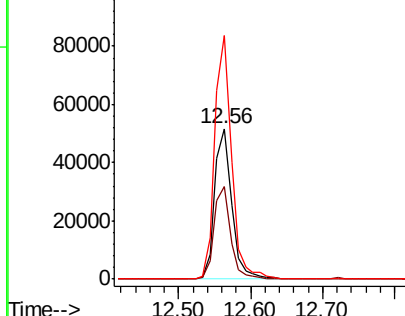


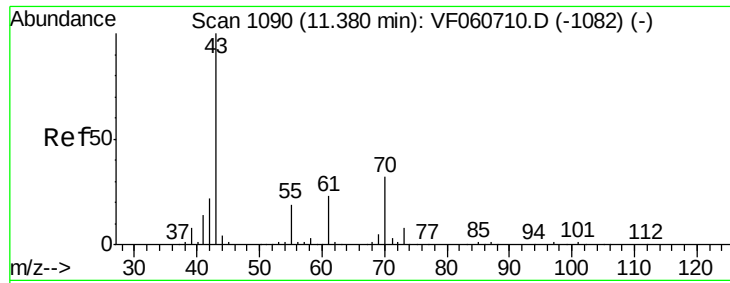
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF060767.D
Acq: 16 Nov 2018 16:30

Tgt Ion:152 Resp: 84133
Ion Ratio Lower Upper
152 100
115 61.0 27.9 83.7
150 161.6 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





#74

N-amyl acetate

Concen: 1.514 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

Instrument :

MSVOA_F

ClientSampleId :

VW-D1

Tot Ion: 43 Resp: 2334

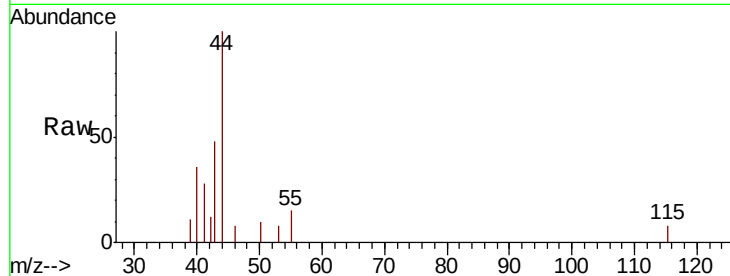
Ion Ratio Lower Upper

43 100

70 0.0 25.5 38.3#

55 31.4 14.9 22.3#

61 0.0 18.6 27.8#

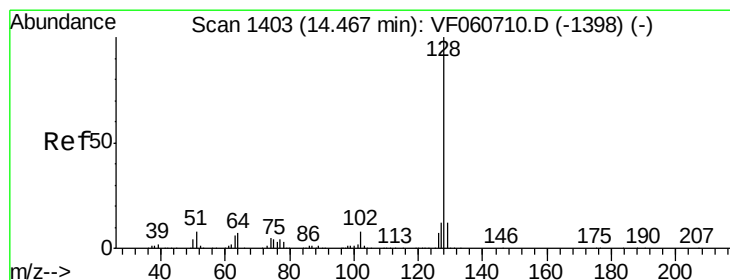
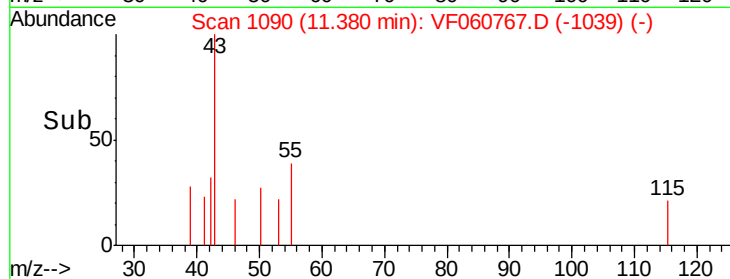
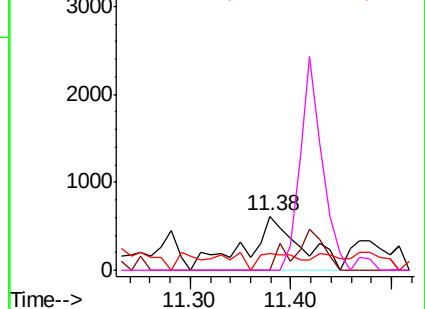


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#95

Naphthalene

Concen: 1.088 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF060767.D

Acq: 16 Nov 2018 16:30

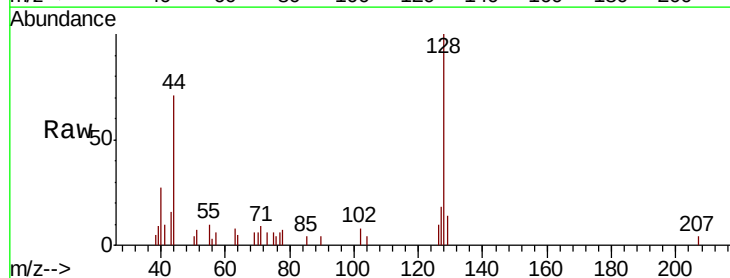
Tgt Ion: 128 Resp: 3770

Ion Ratio Lower Upper

128 100

127 18.2 9.8 14.6#

129 13.7 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

