

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060617.D
 Acq On : 6 Nov 2018 17:26
 Operator : VA/AP
 Sample : J5767-03RE
 Misc : 6.17g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 16:57:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

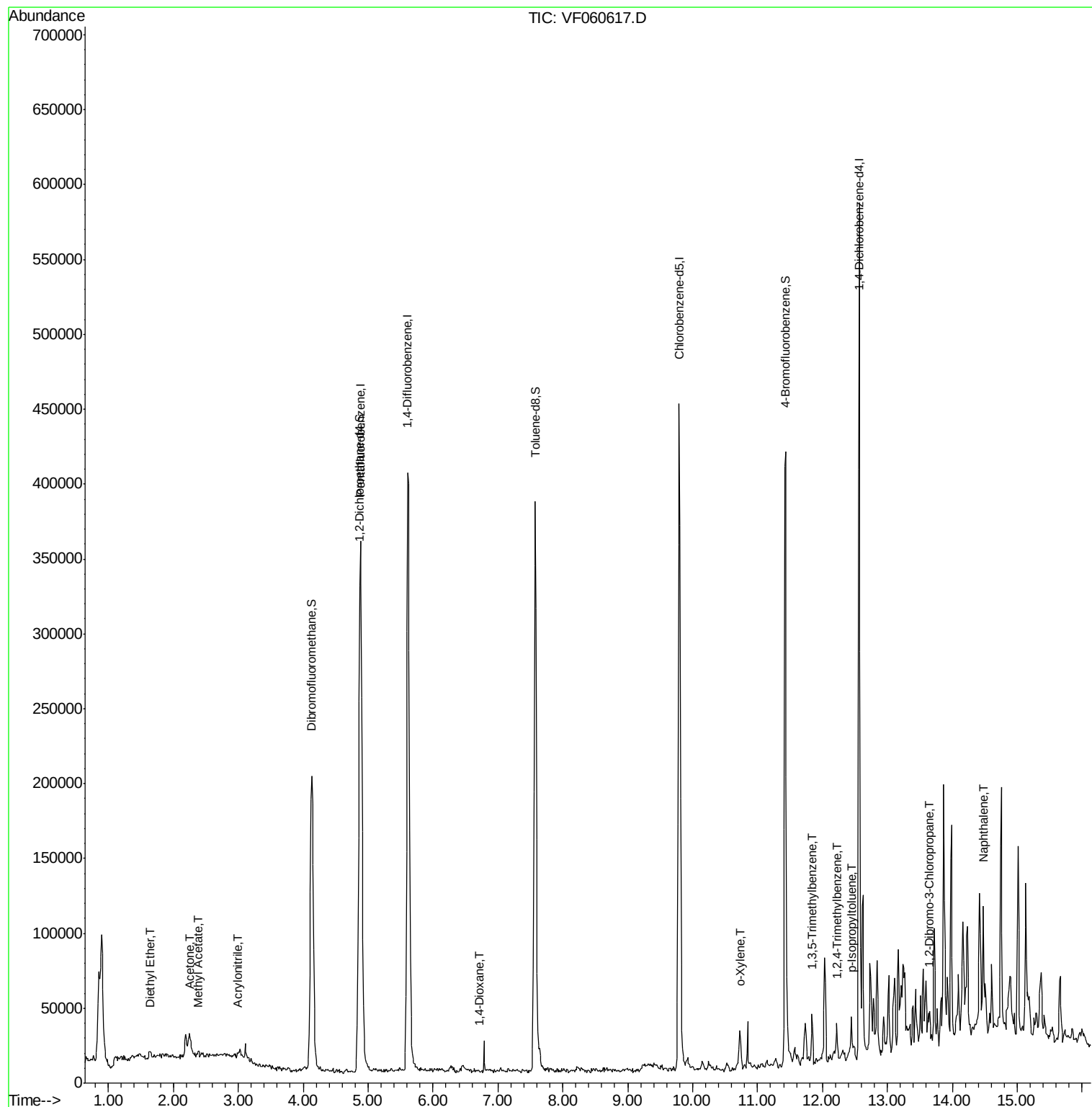
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	272435	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	485151	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	328779	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	140687	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	150775	54.78	ug/l	0.01
Spiked Amount 50.000			Recovery	=	109.56%	
35) Dibromofluoromethane	4.13	113	199350	53.18	ug/l	0.02
Spiked Amount 50.000			Recovery	=	106.36%	
50) Toluene-d8	7.57	98	327941	29.53	ug/l	0.01
Spiked Amount 50.000			Recovery	=	59.06%	
62) 4-Bromofluorobenzene	11.42	95	173830	35.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	71.58%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	322	Below Cal		99
6) Chloroethane	1.39	64	146	Below Cal	#	40
8) Diethyl Ether	1.65	74	1788	2.346	ug/l	82
11) Tert butyl alcohol	2.57	59	697	Below Cal	#	1
13) Acrolein	2.00	56	823	Below Cal	#	68
15) Acrylonitrile	2.98	53	1271	3.874	ug/l	25
16) Acetone	2.26	43	6611	10.192	ug/l	86
18) Methyl Acetate	2.37	43	2948	3.377	ug/l	64
20) Methylene Chloride	2.25	84	7729	Below Cal		94
25) 2-Butanone	4.36	43	2219	Below Cal	#	56
29) Tetrahydrofuran	4.11	42	1408	Below Cal	#	78
49) 1,4-Dioxane	6.70	88	74	3.470	ug/l	1
58) 2-Chloroethyl Vinyl ether	7.64	63	1280	Below Cal		100
59) 2-Hexanone	9.52	43	3600	Below Cal		97
69) o-Xylene	10.73	106	7739	1.542	ug/l	70
74) N-amyl acetate	11.39	43	1136	Below Cal	#	61
80) 1,3,5-Trimethylbenzene	11.84	105	16212	1.793	ug/l	100
84) 1,2,4-Trimethylbenzene	12.22	105	12140	1.371	ug/l	95
86) p-Isopropyltoluene	12.45	119	15901	1.519	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	680	1.954	ug/l	1
95) Naphthalene	14.47	128	6378	1.064	ug/l	8

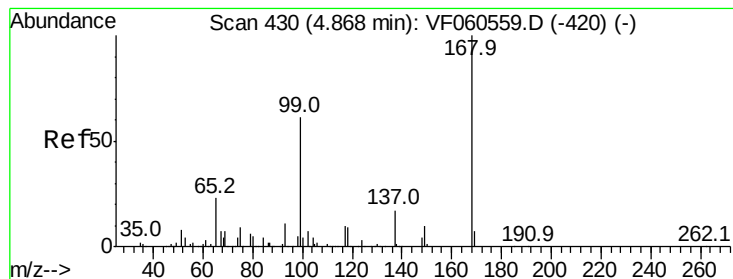
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

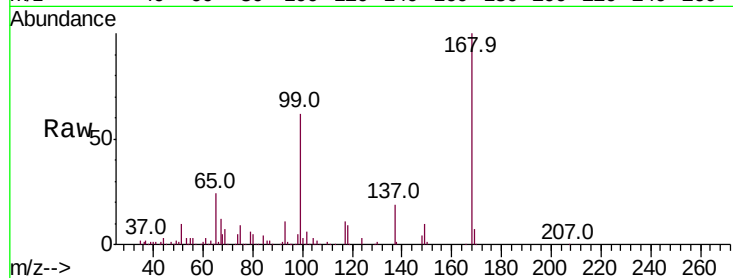
ClientSampleId :

Tot Ion:168 Resp: 272435

Ion Ratio Lower Upper

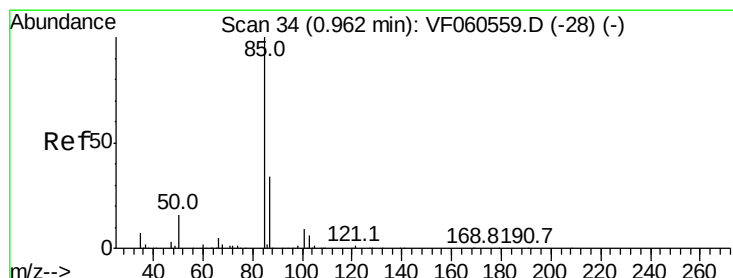
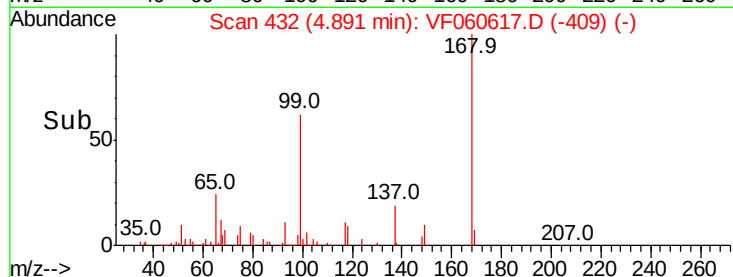
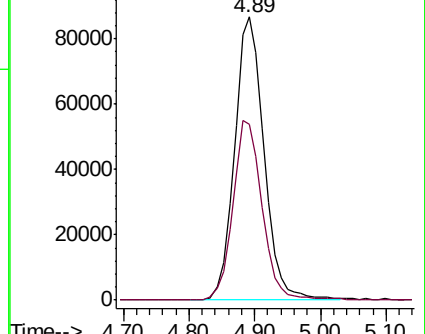
168 100

99 62.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060617.D

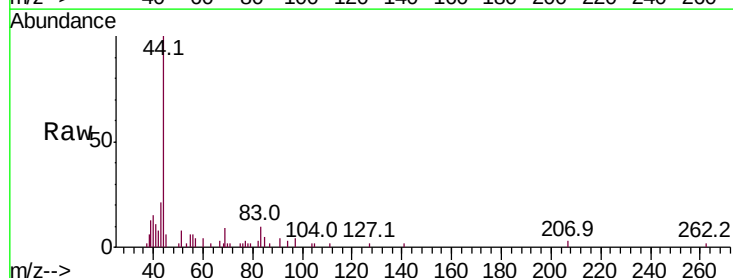
Acq: 6 Nov 2018 17:26

Tgt Ion: 85 Resp: 322

Ion Ratio Lower Upper

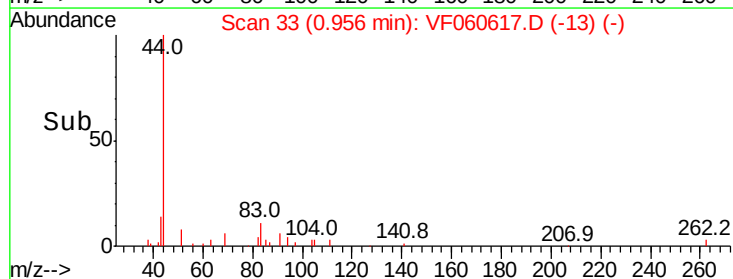
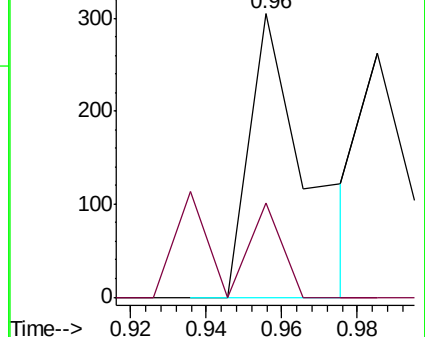
85 100

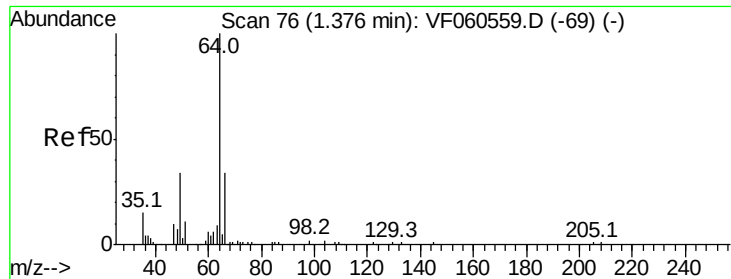
87 33.1 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.01 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

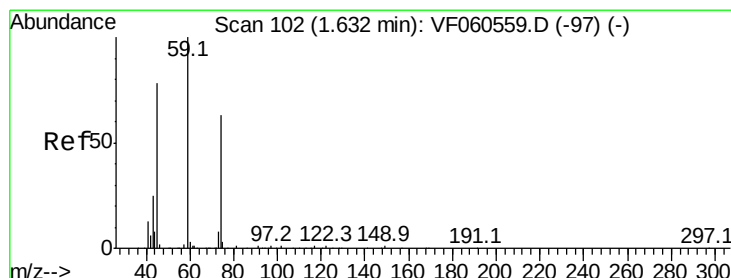
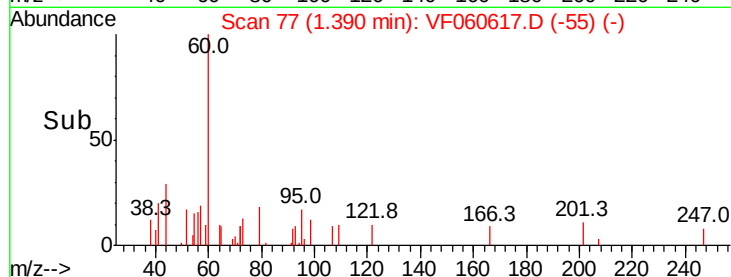
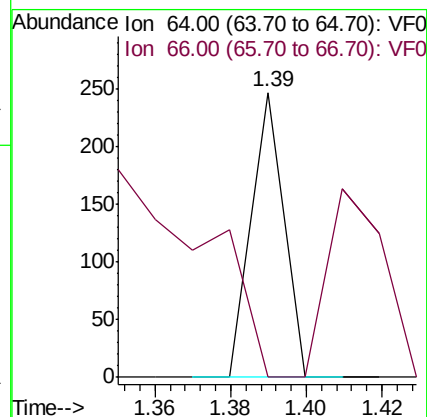
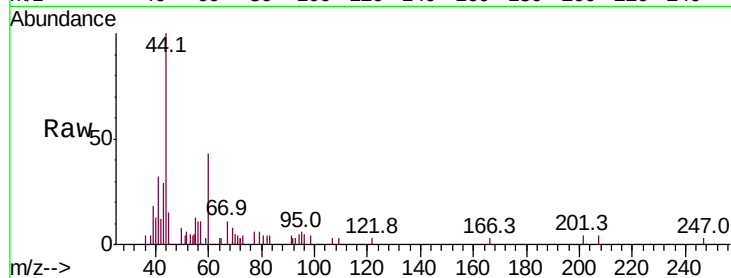
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 146

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



#8

Diethyl Ether

Concen: 2.346 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF060617.D

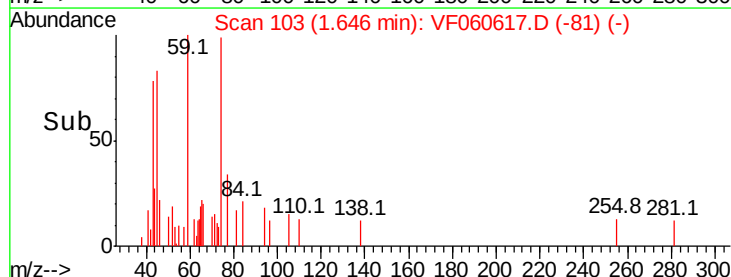
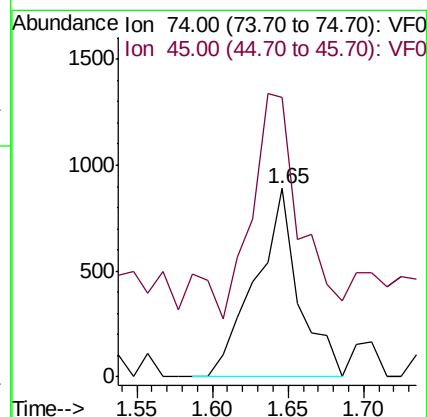
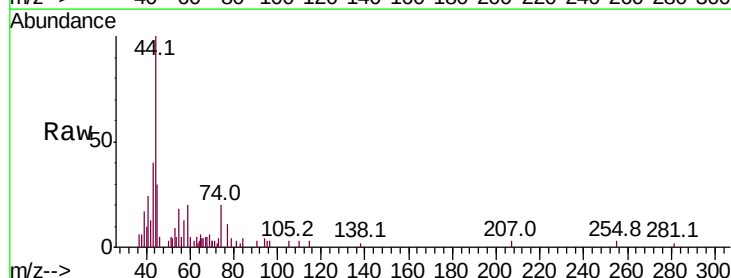
Acq: 6 Nov 2018 17:26

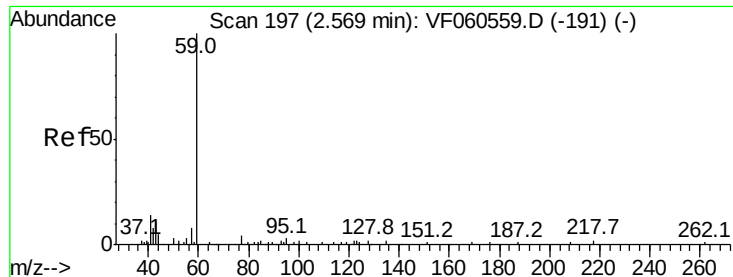
Tgt Ion: 74 Resp: 1788

Ion Ratio Lower Upper

74 100

45 148.4 63.8 191.5



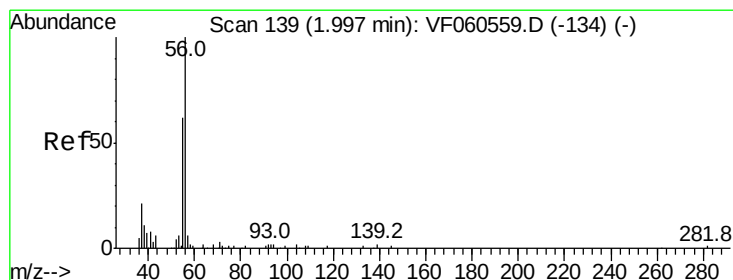
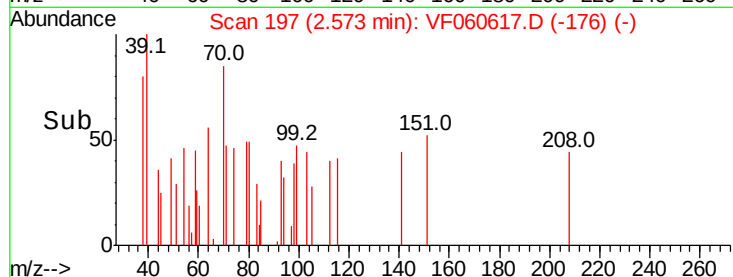
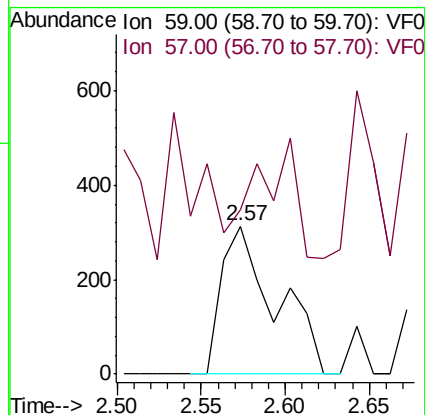
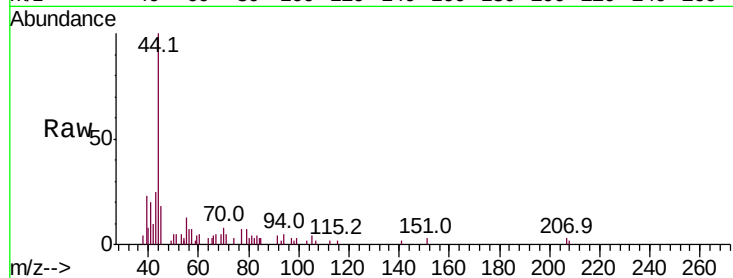


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Instrument :
MSVOA_F
ClientSampled :

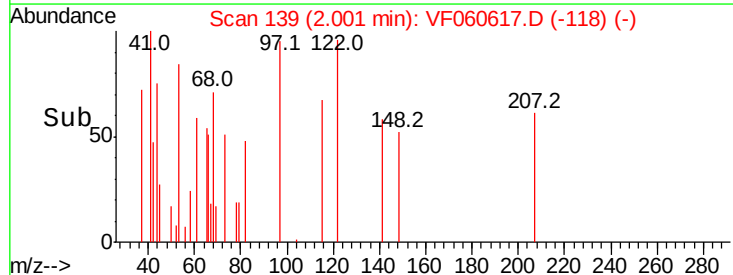
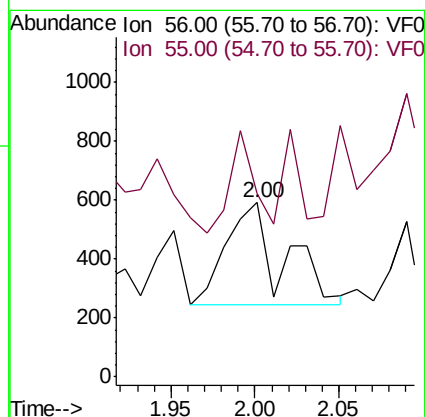
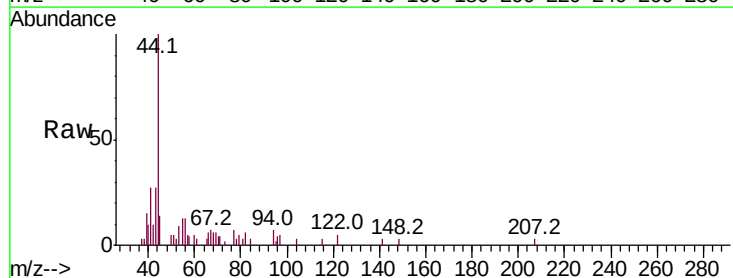
Tot Ion: 59 Resp: 697
Ion Ratio Lower Upper
59 100
57 110.9 19.0 28.4#

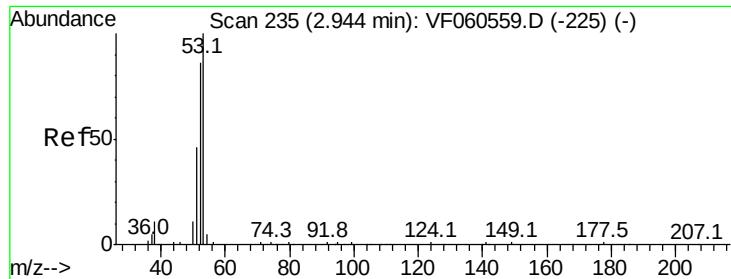


#13

Acrolein
Concen: Below Cal
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Tgt Ion: 56 Resp: 823
Ion Ratio Lower Upper
56 100
55 105.1 61.8 92.6#





#15

Acrylonitrile

Concen: 3.874 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.03 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

ClientSampleId :

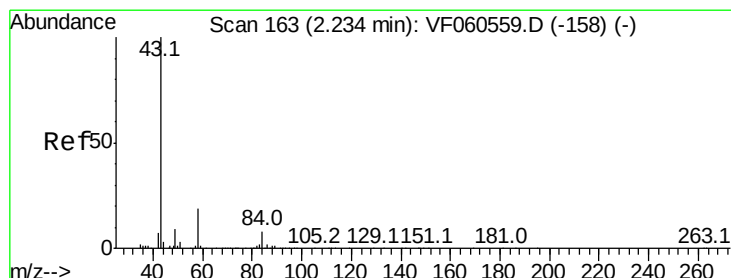
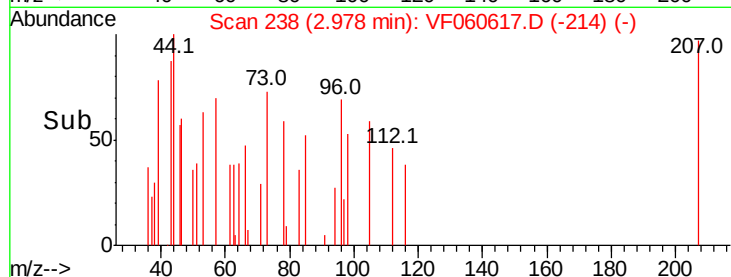
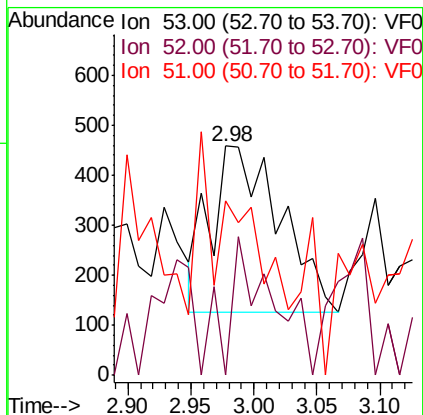
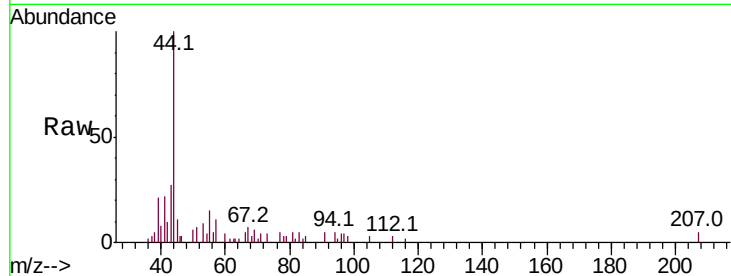
Tot Ion: 53 Resp: 1271

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 76.0 38.2 57.2#



#16

Acetone

Concen: 10.192 ug/l

RT: 2.26 min Scan# 165

Delta R.T. 0.02 min

Lab File: VF060617.D

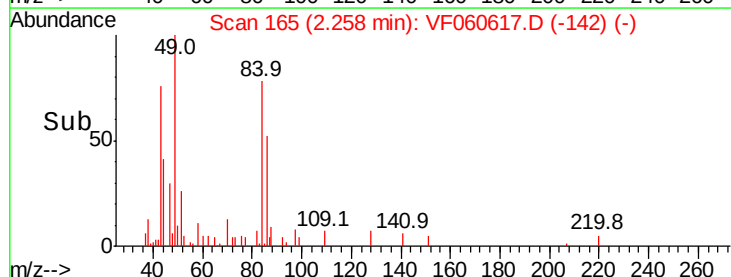
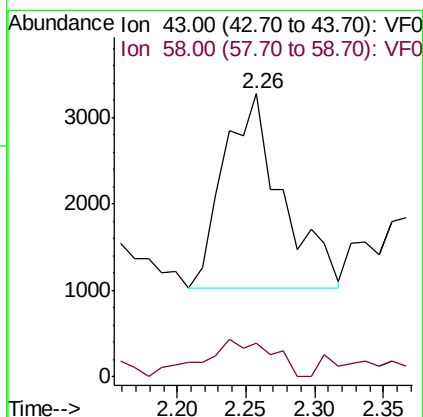
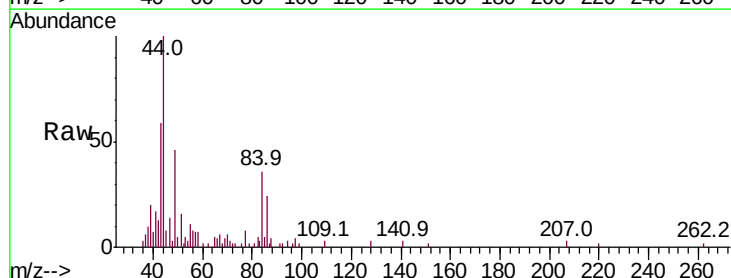
Acq: 6 Nov 2018 17:26

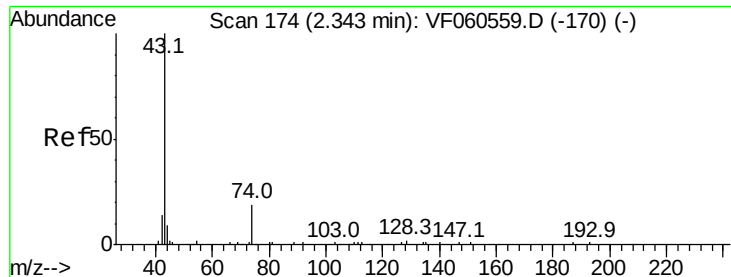
Tgt Ion: 43 Resp: 6611

Ion Ratio Lower Upper

43 100

58 11.9 14.6 22.0#

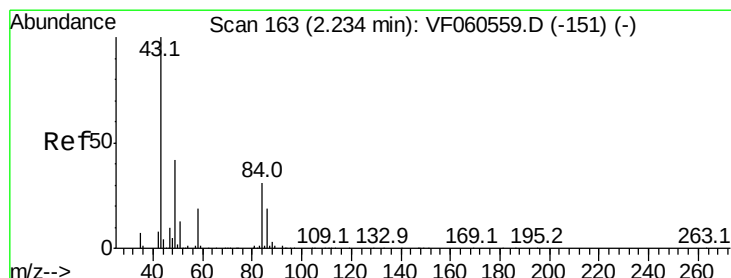
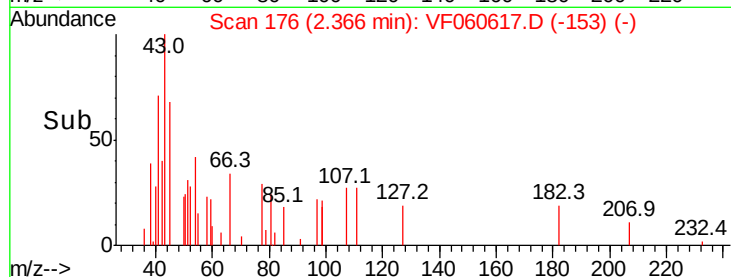
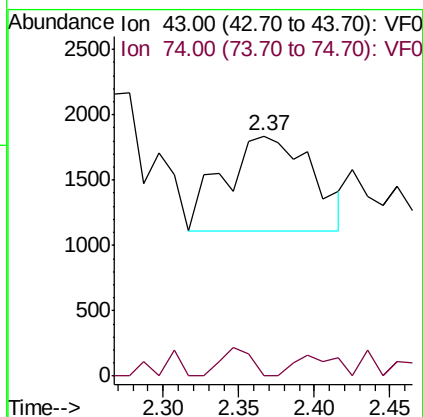
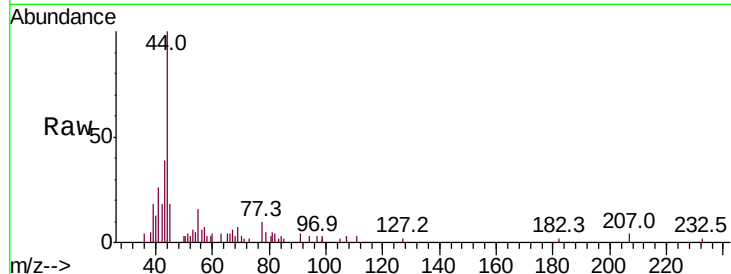




#18
Methyl Acetate
Concen: 3.377 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

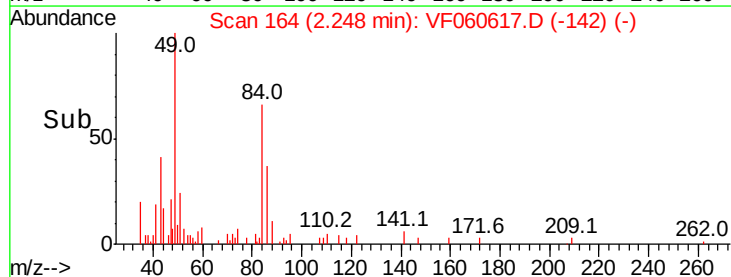
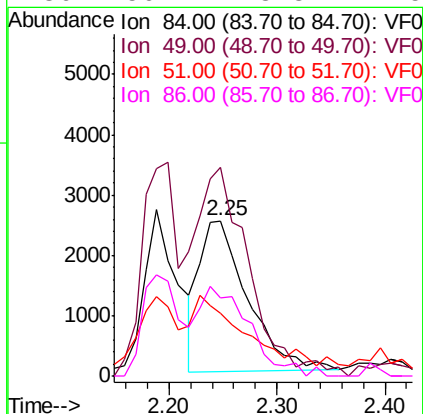
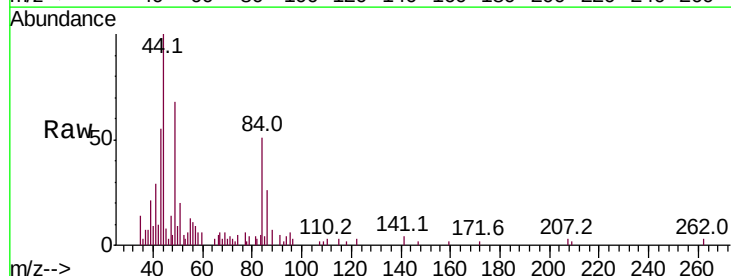
Instrument :
MSVOA_F
ClientSampled :

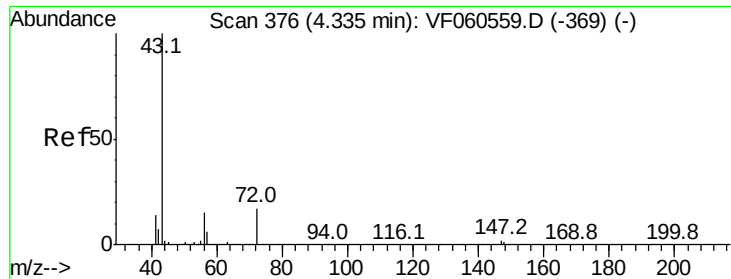
Tot Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Tgt Ion: 84 Resp: 7729
Ion Ratio Lower Upper
84 100
49 134.6 109.9 164.9
51 40.3 35.8 53.8
86 50.4 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

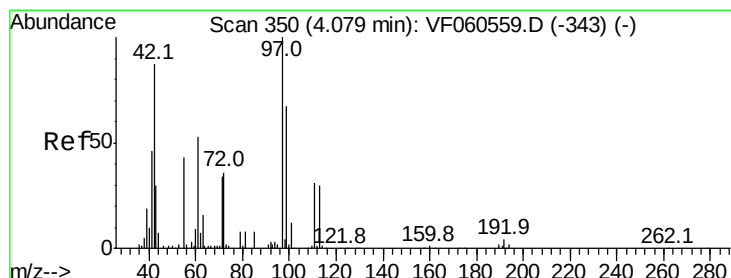
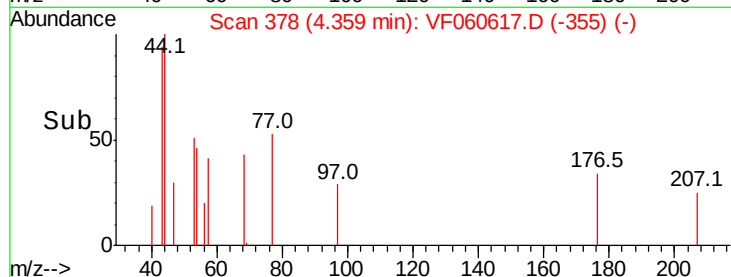
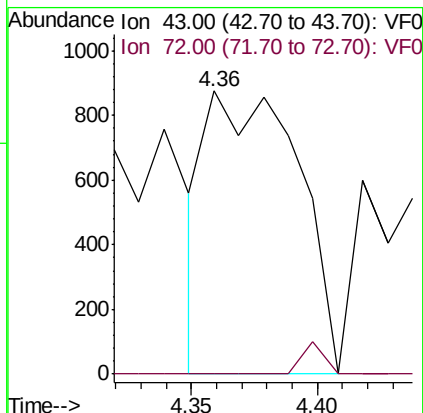
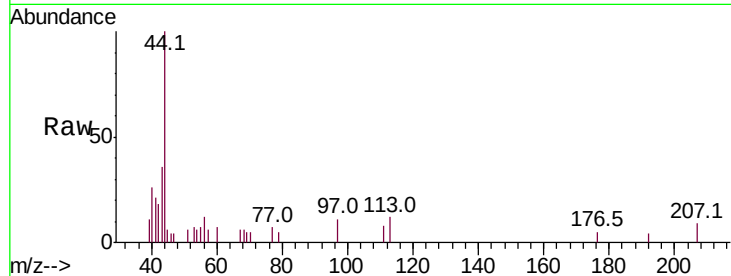
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2219

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

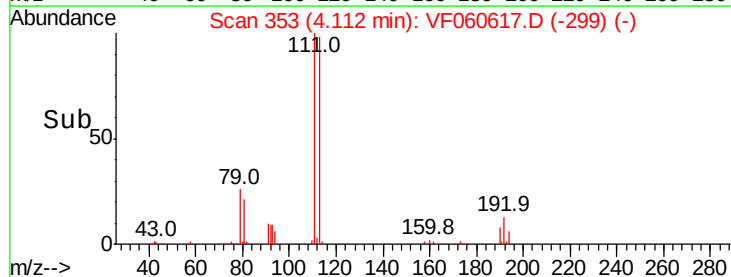
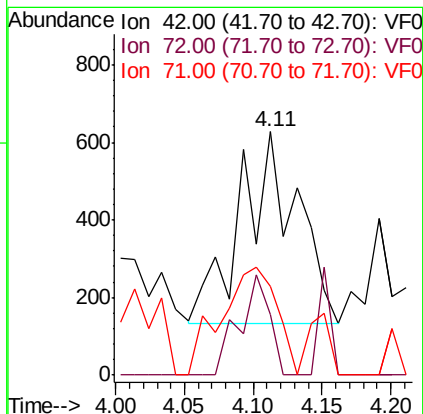
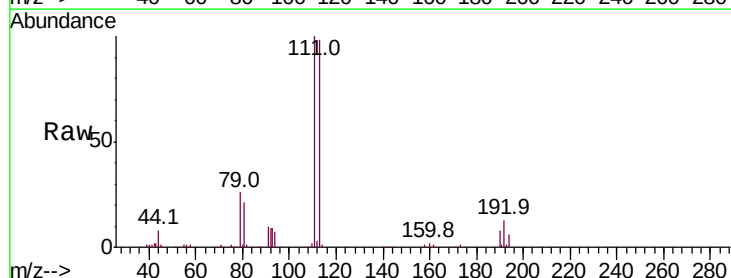
Tgt Ion: 42 Resp: 1408

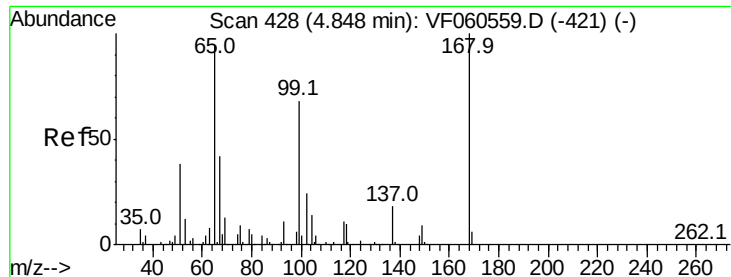
Ion Ratio Lower Upper

42 100

72 28.0 31.4 47.0#

71 56.0 31.8 47.6#

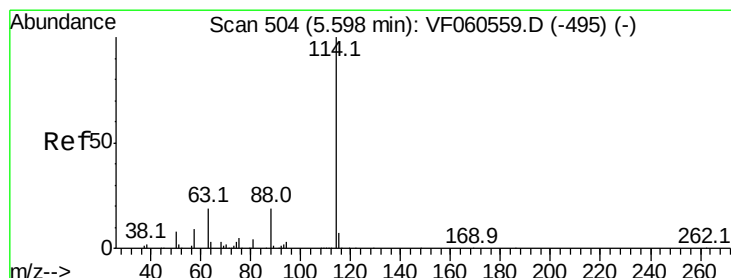
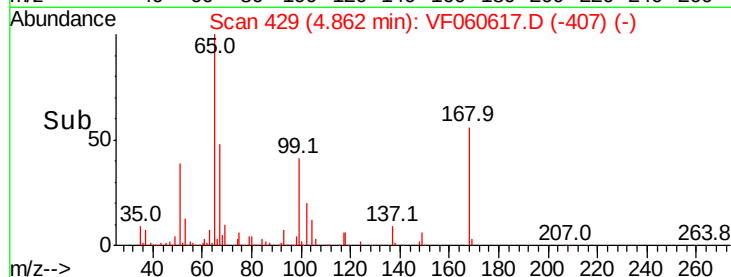
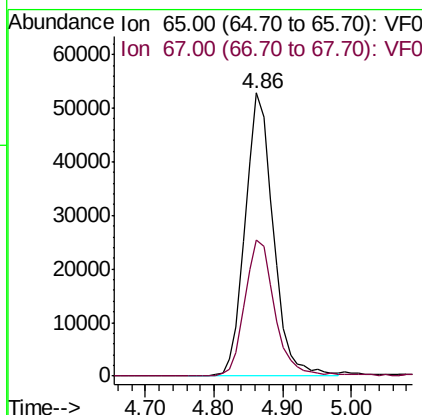
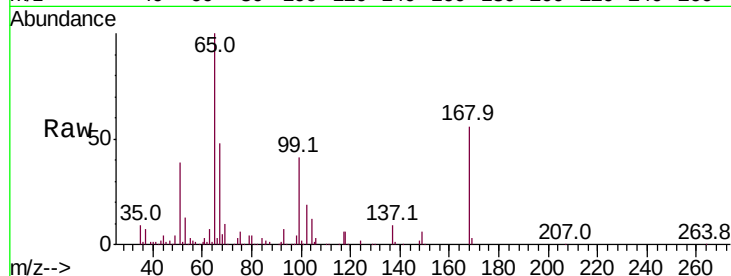




#33
 1,2-Dichloroethane-d4
 Concen: 54.775 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.01 min
 Lab File: VF060617.D
 Acq: 6 Nov 2018 17:26

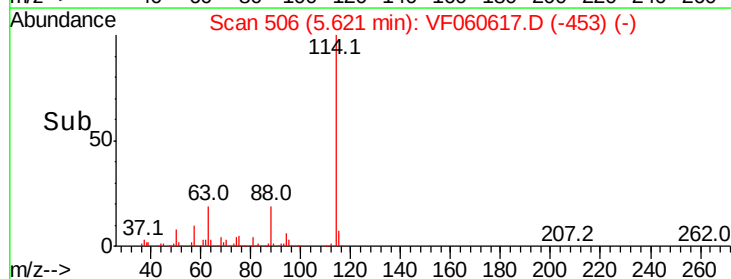
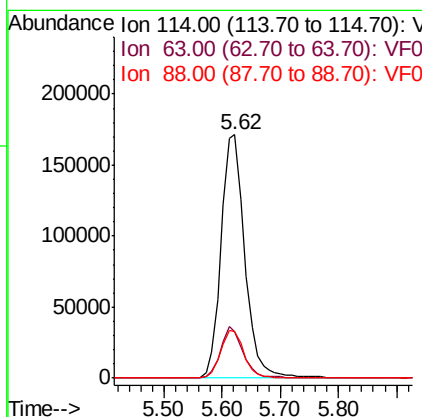
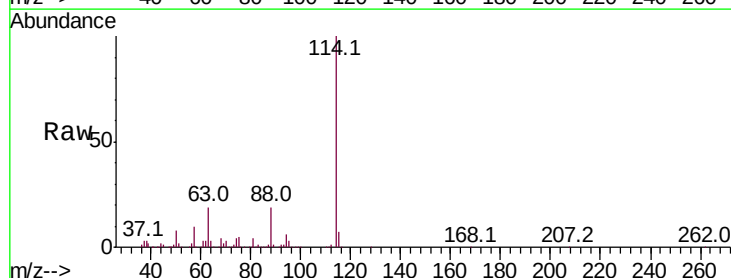
Instrument :
 MSVOA_F
 ClientSampleId :

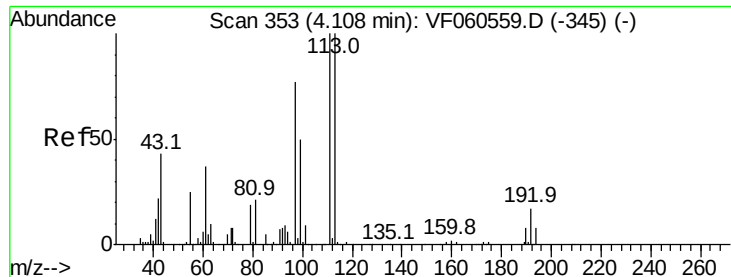
Tot Ion: 65 Resp: 150775
 Ion Ratio Lower Upper
 65 100
 67 48.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: VF060617.D
 Acq: 6 Nov 2018 17:26

Tgt Ion: 114 Resp: 485151
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.0
 88 18.9 0.0 38.2





#35

Dibromofluoromethane

Concen: 53.185 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

ClientSampleId :

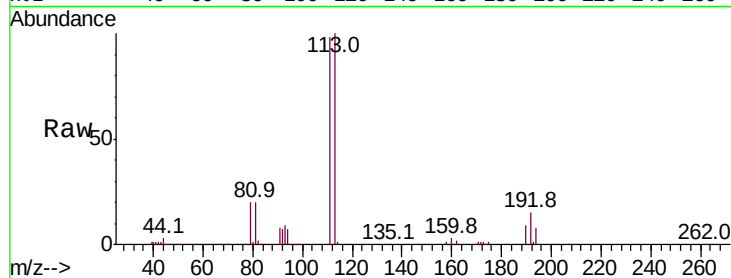
Tot Ion:113 Resp: 199350

Ion Ratio Lower Upper

113 100

111 98.3 79.9 119.9

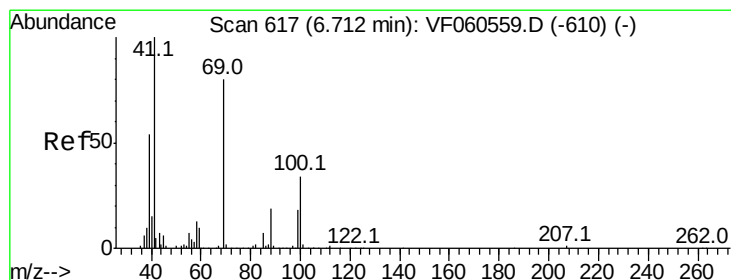
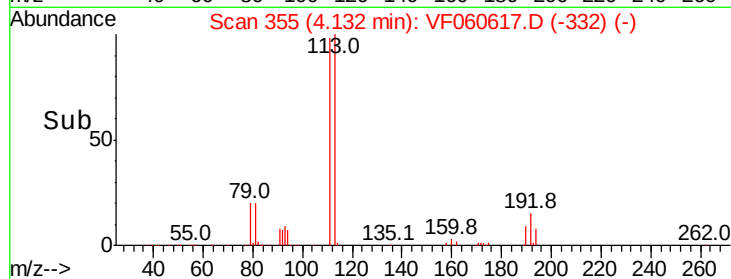
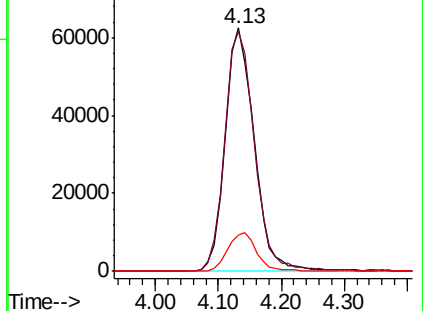
192 15.0 13.3 19.9



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



#49

1,4-Dioxane

Concen: 3.470 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

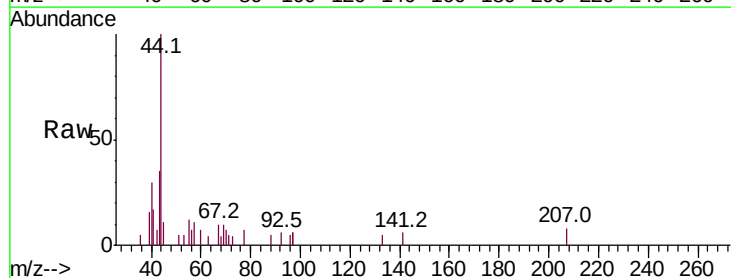
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 652.0 61.2 91.8#

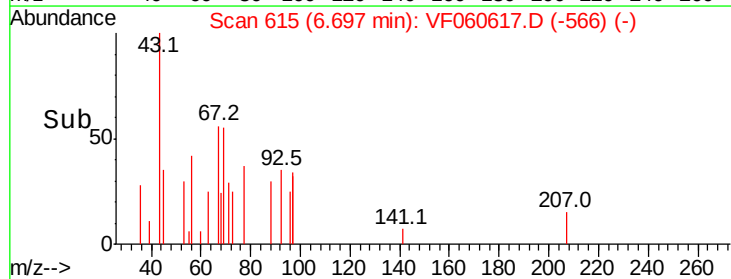
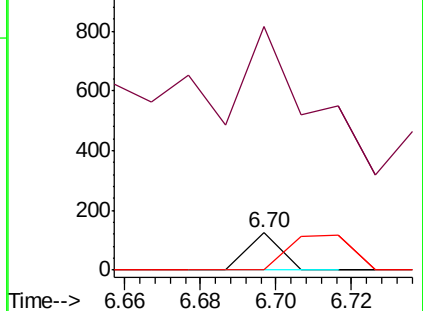
58 0.0 56.9 85.3#

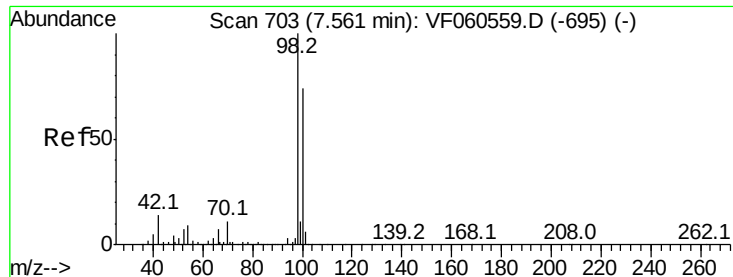


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

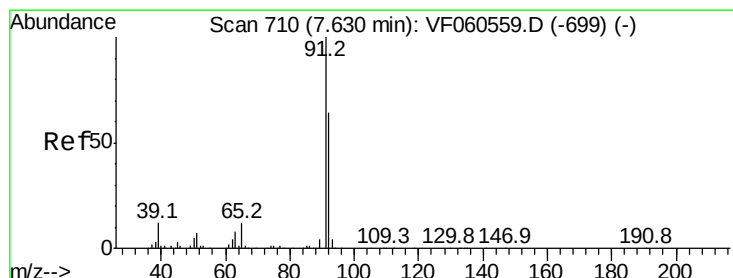
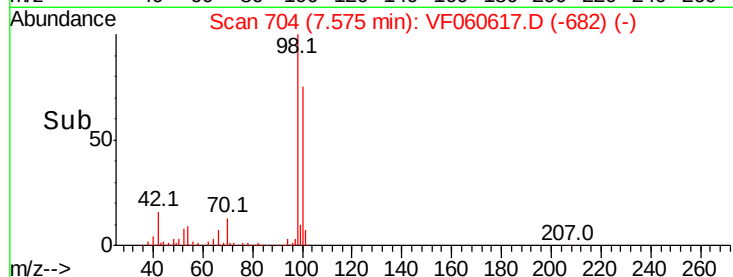
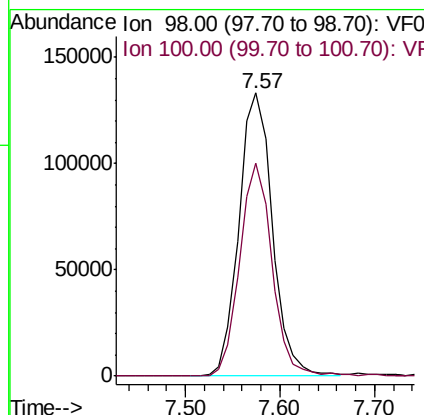
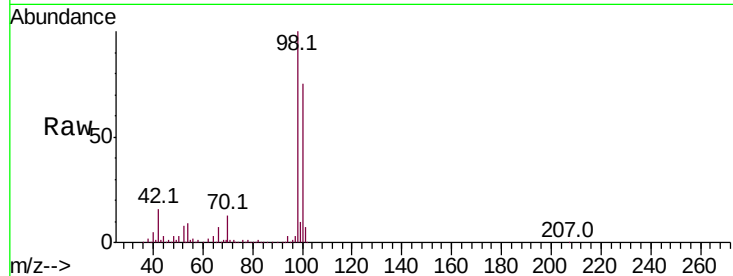




#50
Toluene-d8
Concen: 29.535 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

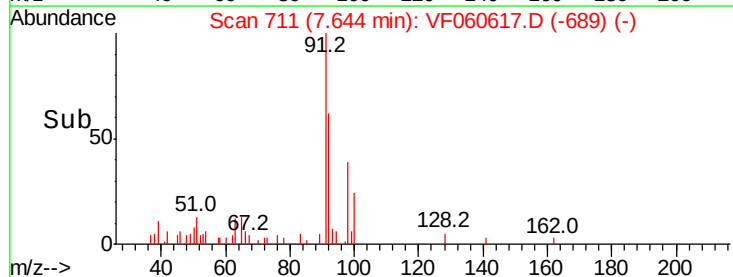
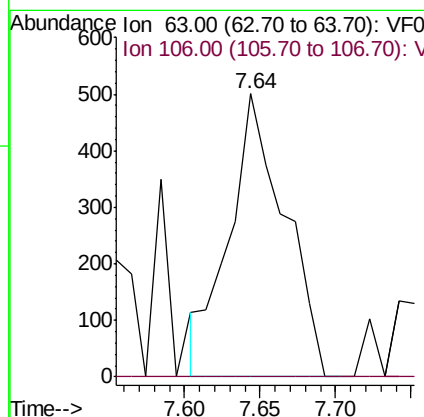
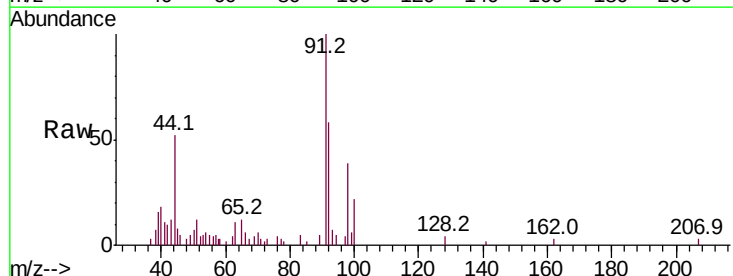
Instrument :
MSVOA_F
ClientSampled :

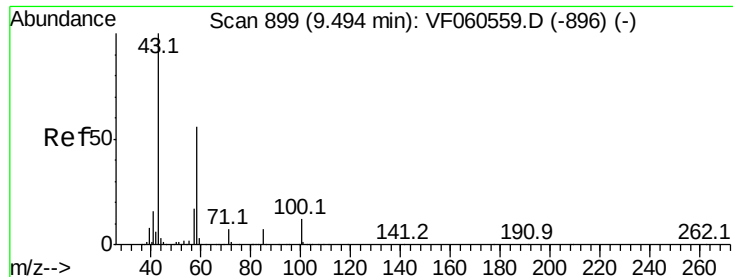
Tot Ion: 98 Resp: 327941
Ion Ratio Lower Upper
98 100
100 75.1 59.4 89.2



#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.64 min Scan# 711
Delta R.T. 0.01 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Tgt Ion: 63 Resp: 1280
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

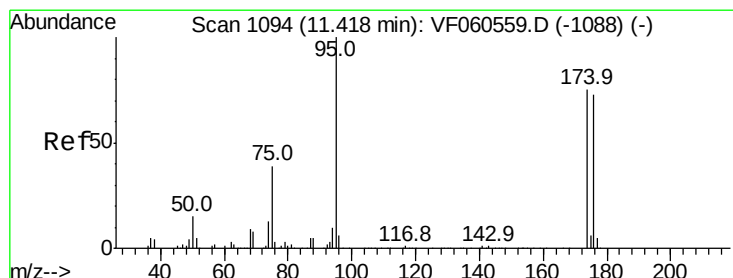
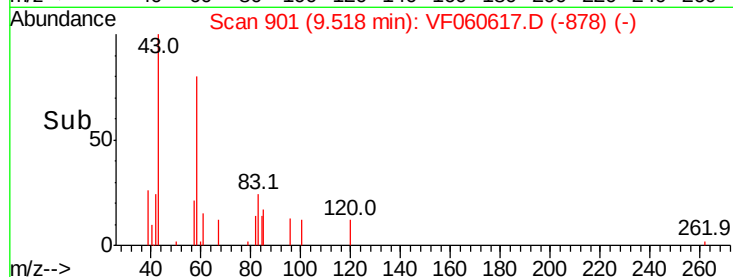
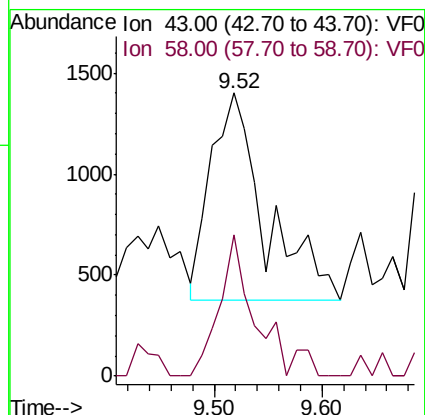
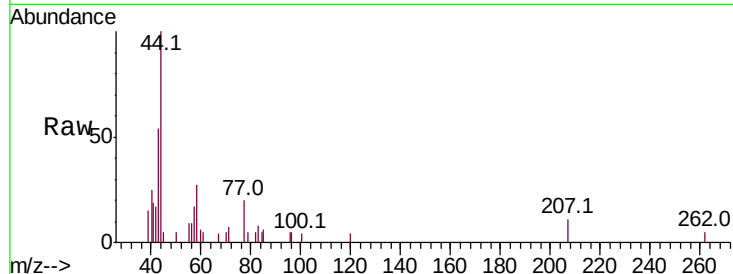




#59
2-Hexanone
Concen: Below Cal
RT: 9.52 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

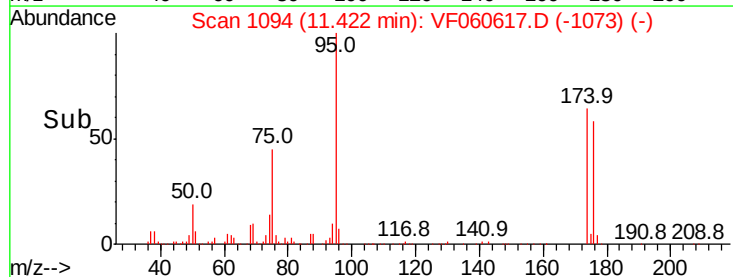
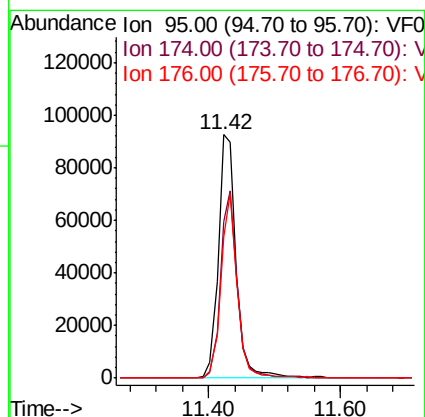
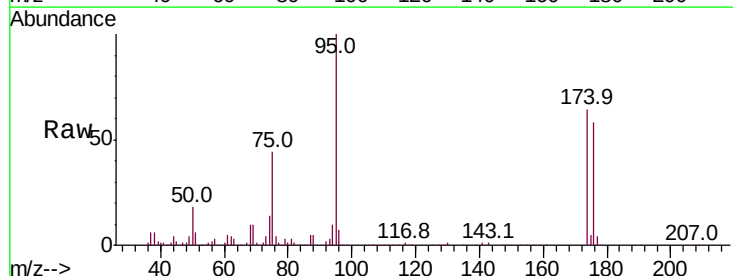
Instrument :
MSVOA_F
ClientSampled :

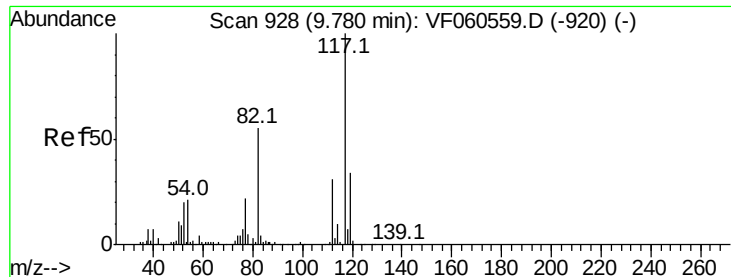
Tot Ion: 43 Resp: 3600
Ion Ratio Lower Upper
43 100
58 49.8 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 35.791 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Tgt Ion: 95 Resp: 173830
Ion Ratio Lower Upper
95 100
174 64.2 0.0 149.0
176 58.2 0.0 145.6

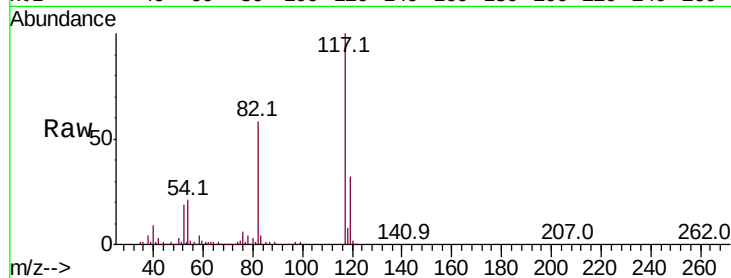




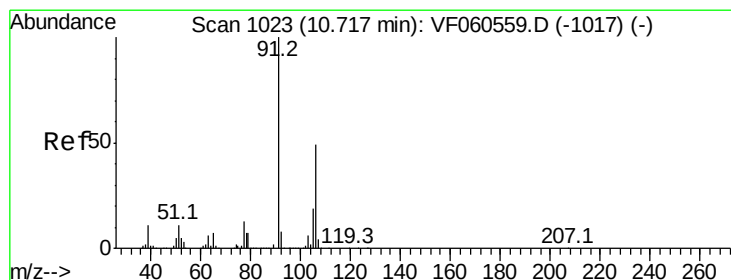
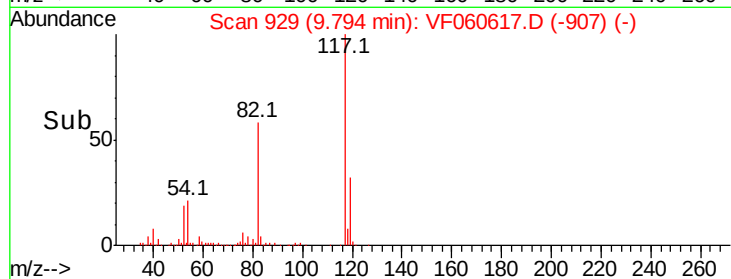
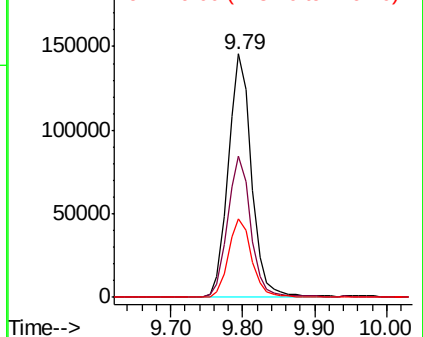
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 328779
Ion Ratio Lower Upper
117 100
82 58.0 43.9 65.9
119 32.0 27.4 41.0

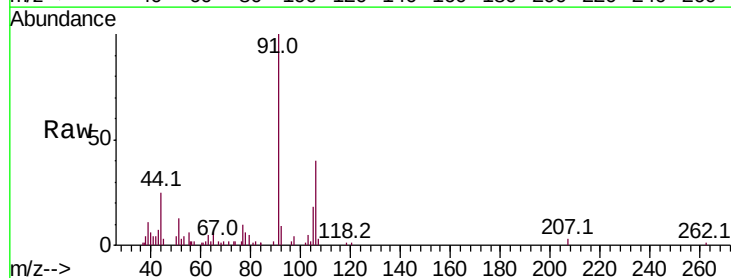


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

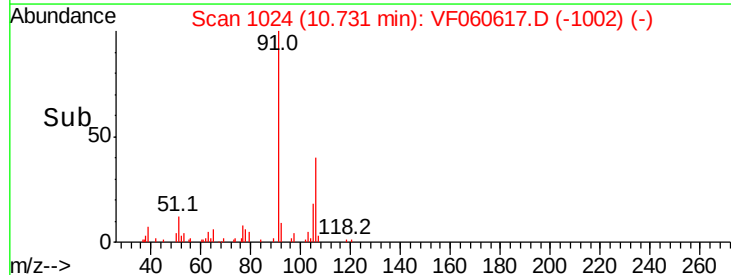
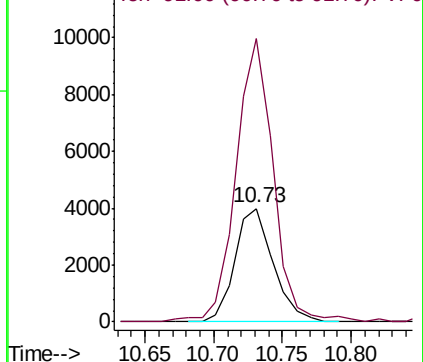


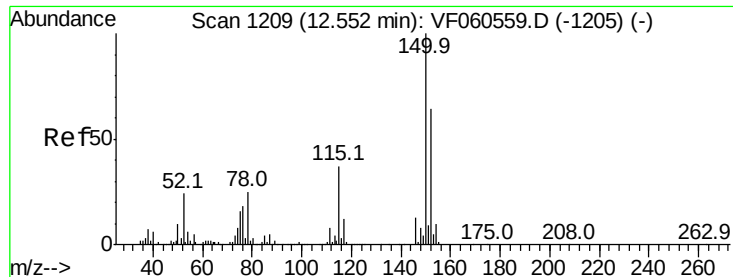
#69
o-Xylene
Concen: 1.542 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF060617.D
Acq: 6 Nov 2018 17:26

Tgt Ion:106 Resp: 7739
Ion Ratio Lower Upper
106 100
91 248.9 101.8 305.3



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: 12.57 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

ClientSampleId :

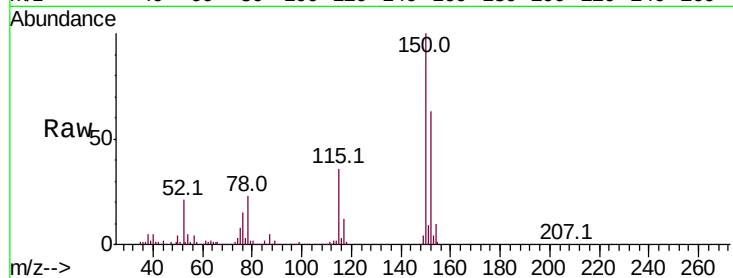
Tot Ion:152 Resp: 140687

Ion Ratio Lower Upper

152 100

115 56.2 29.6 88.8

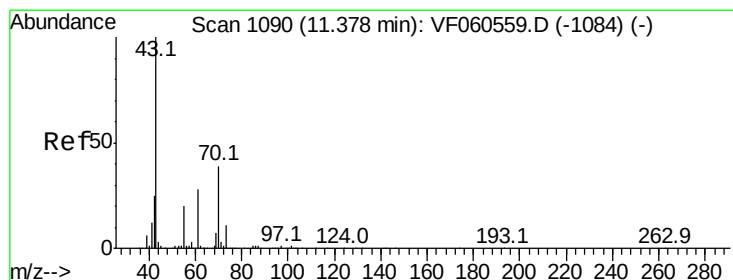
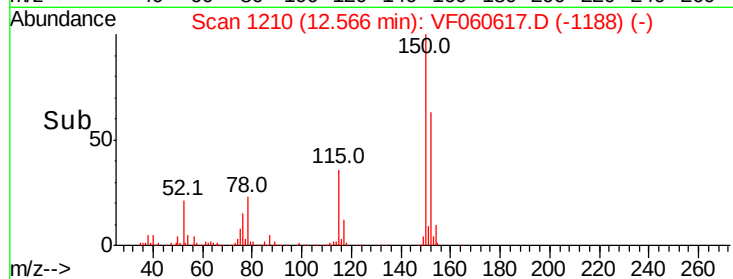
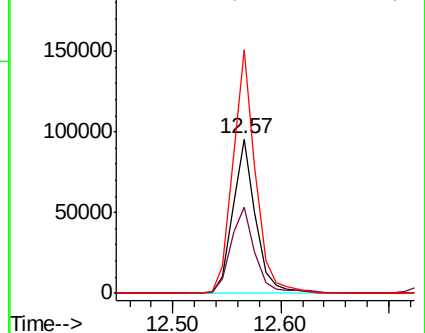
150 157.8 0.0 315.6



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-aryl acetate

Concen: Below Cal

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Tgt Ion: 43 Resp: 1136

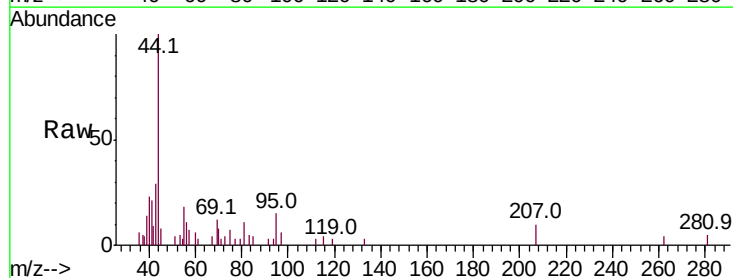
Ion Ratio Lower Upper

43 100

70 27.8 30.9 46.3#

55 63.0 16.6 24.8#

61 11.5 22.0 33.0#

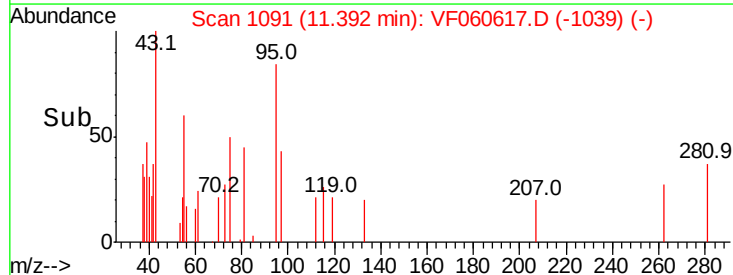
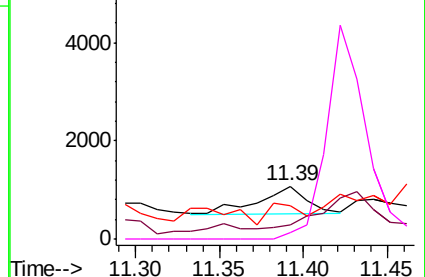


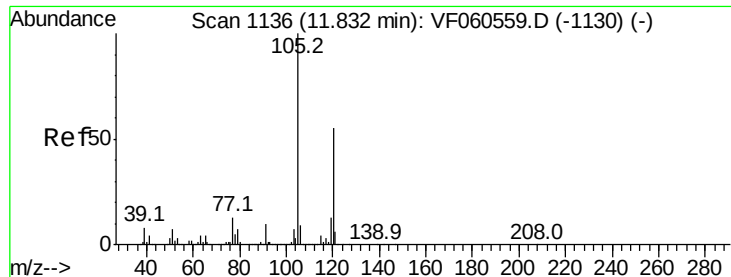
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

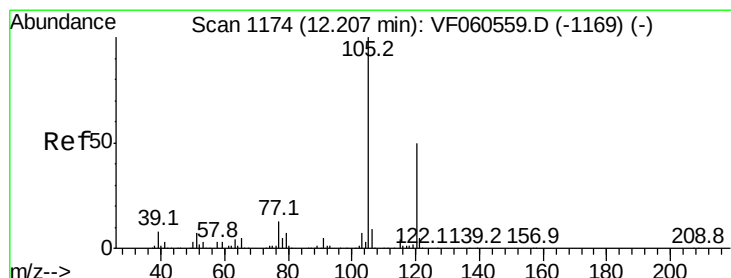
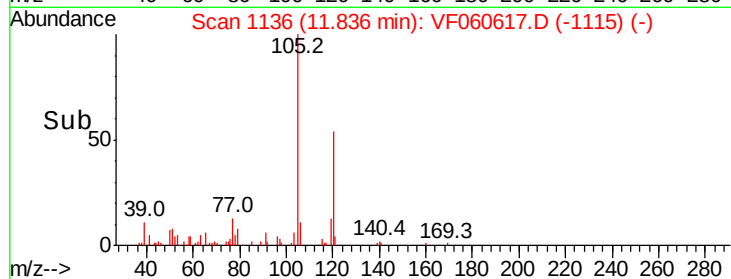
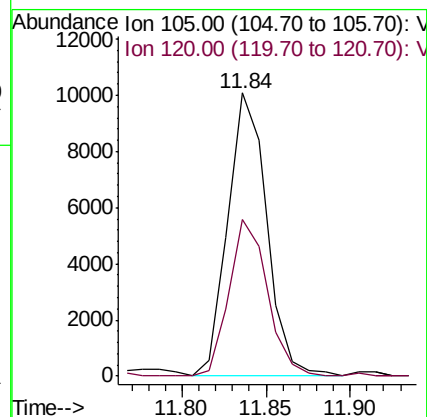
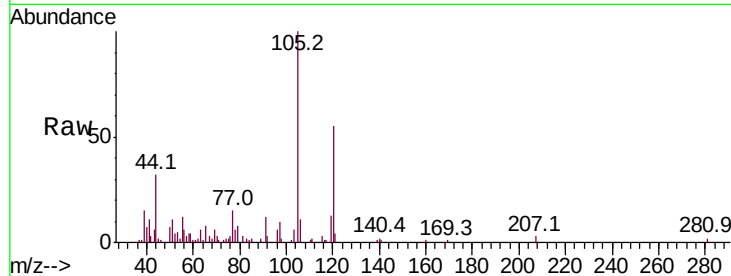




#80
 1,3,5-Trimethylbenzene
 Concen: 1.793 ug/l
 RT: 11.84 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF060617.D
 Acq: 6 Nov 2018 17:26

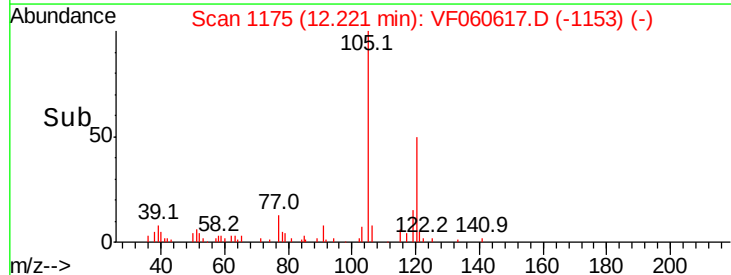
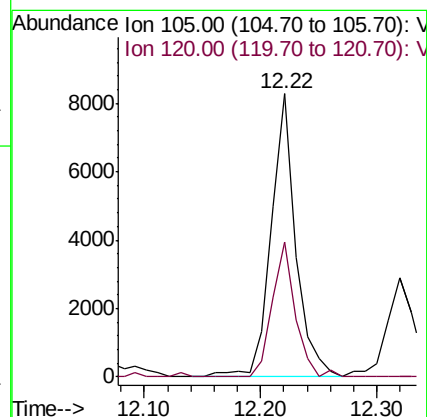
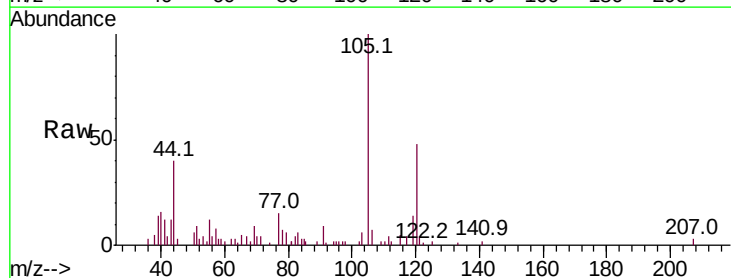
Instrument :
 MSVOA_F
 ClientSampleId :

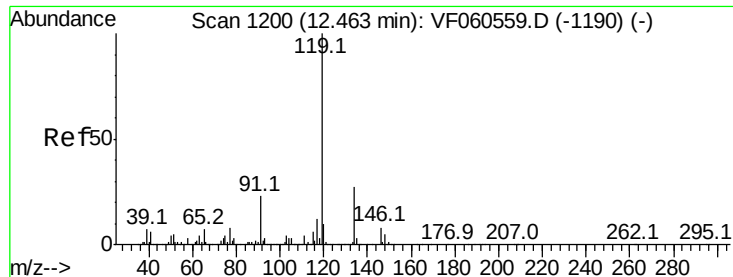
Tot Ion:105 Resp: 16212
 Ion Ratio Lower Upper
 105 100
 120 55.3 27.6 82.8



#84
 1,2,4-Trimethylbenzene
 Concen: 1.371 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VF060617.D
 Acq: 6 Nov 2018 17:26

Tgt Ion:105 Resp: 12140
 Ion Ratio Lower Upper
 105 100
 120 47.5 25.6 76.8





#86

p-Isopropyltoluene

Concen: 1.519 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF060617.D

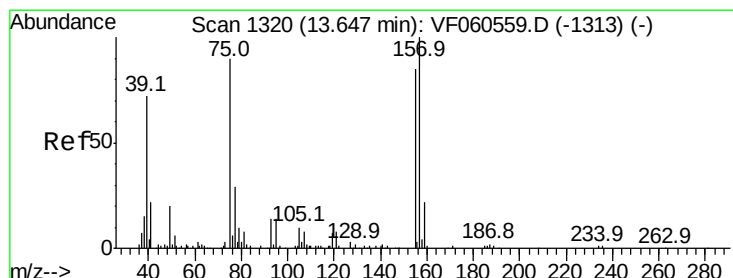
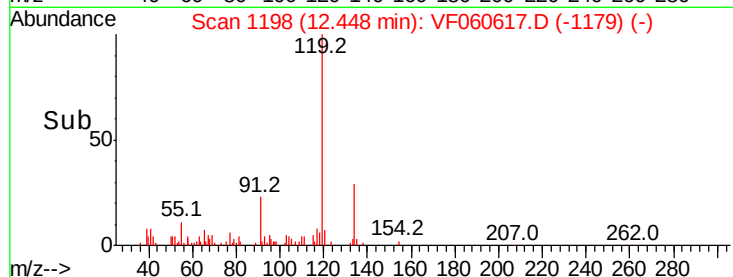
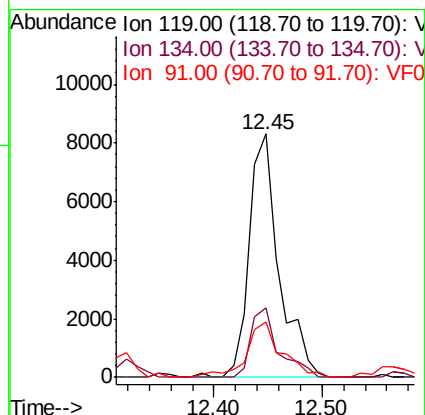
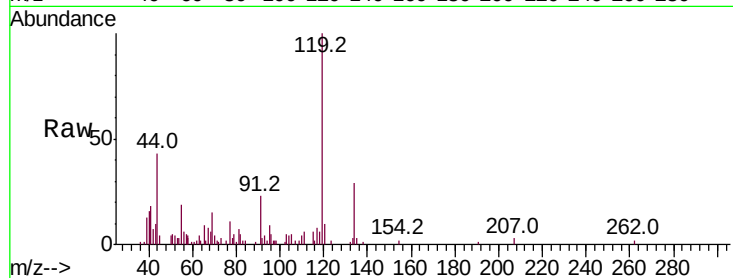
Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	119	Resp:	15901
Ion	Ratio	Lower	Upper
119	100		
134	28.5	13.6	40.7
91	22.6	11.4	34.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.954 ug/l

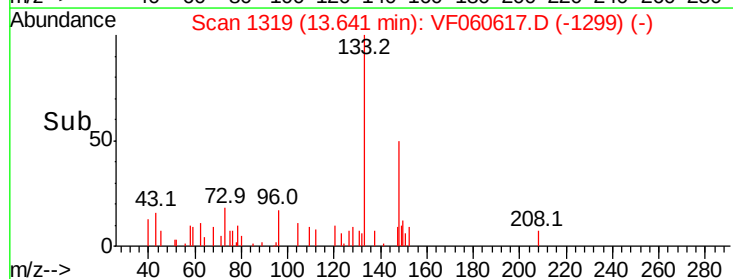
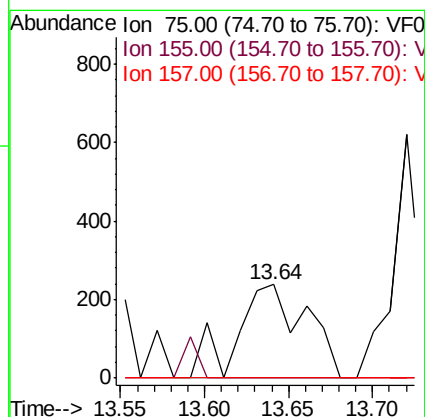
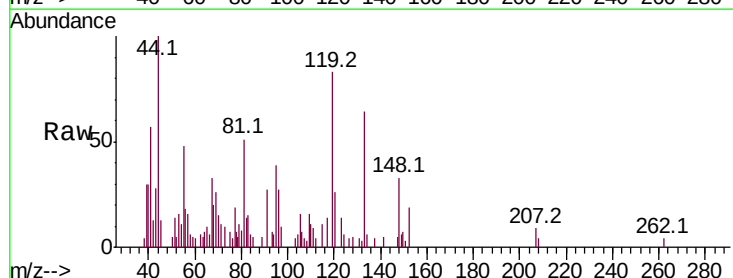
RT: 13.64 min Scan# 1319

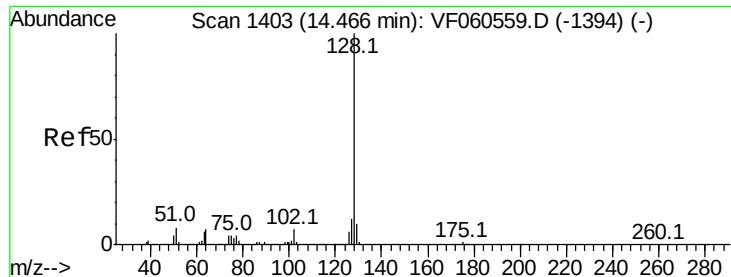
Delta R.T. -0.01 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Tgt Ion:	75	Resp:	680
Ion	Ratio	Lower	Upper
75	100		
155	0.0	47.3	141.8#
157	0.0	55.3	165.9#





#95

Naphthalene

Concen: 1.064 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF060617.D

Acq: 6 Nov 2018 17:26

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:128 Resp: 6378

Ion Ratio Lower Upper

128 100

127 30.0 9.4 14.0#

129 63.3 8.4 12.6#

