

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060967.D
 Acq On : 10 Dec 2018 21:42
 Operator : VA/AP
 Sample : J6214-47
 Misc : 3.89g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:59:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	201929	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	350661	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	281162	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	100316	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	107368	45.14	ug/l	-0.04
Spiked Amount			Recovery	=	90.28%	
35) Dibromofluoromethane	4.11	113	125907	45.26	ug/l	-0.04
Spiked Amount			Recovery	=	90.52%	
50) Toluene-d8	7.55	98	282343	34.45	ug/l	-0.04
Spiked Amount			Recovery	=	68.90%	
62) 4-Bromofluorobenzene	11.41	95	106144	28.50	ug/l	-0.03
Spiked Amount			Recovery	=	57.00%	

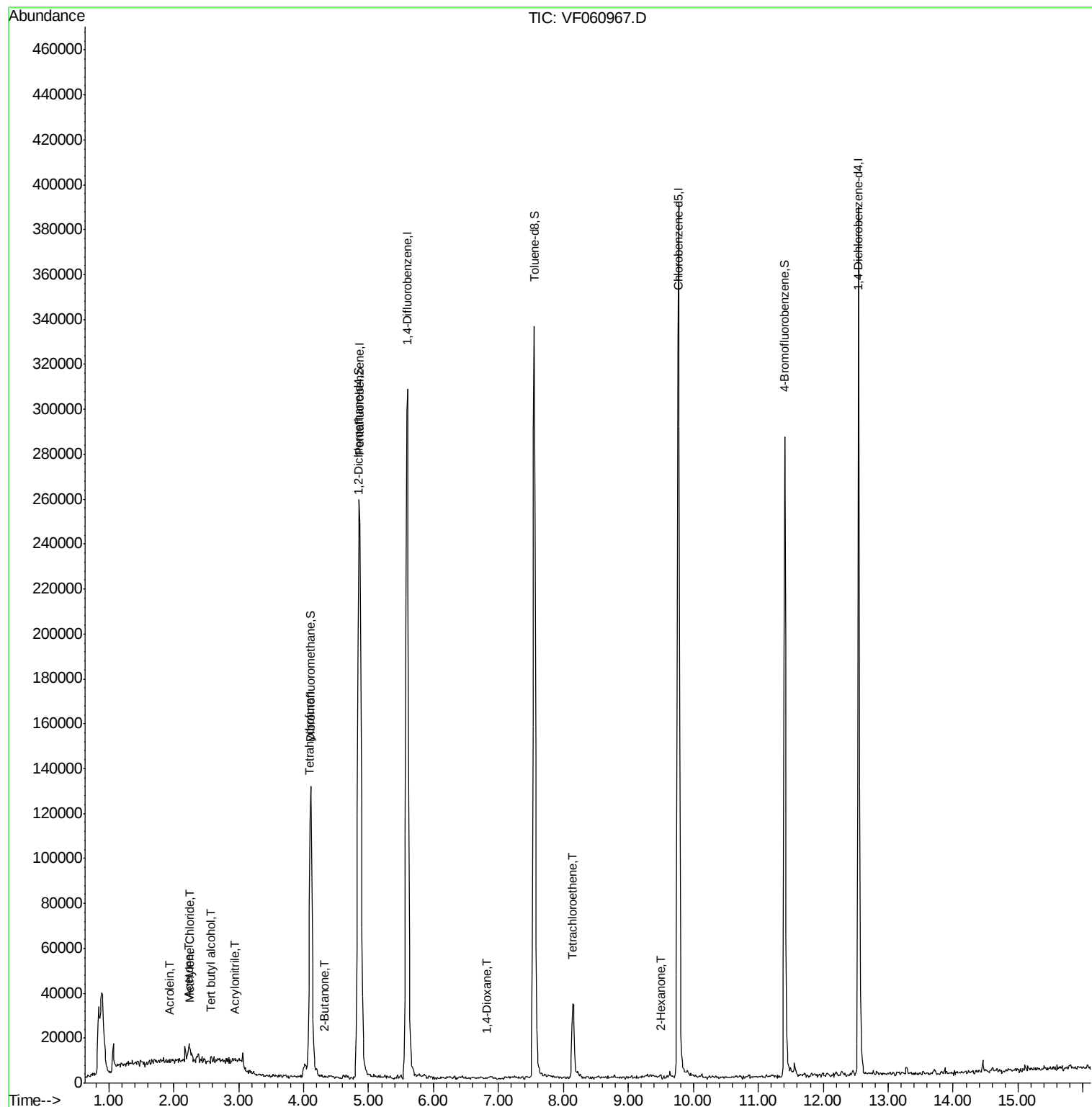
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	241	2.471	ug/l #	1
13) Acrolein	1.95	56	342	3.702	ug/l #	27
15) Acrylonitrile	2.94	53	479	2.191	ug/l #	42
16) Acetone	2.23	43	1876	4.277	ug/l	97
18) Methyl Acetate	2.32	43	740	Below Cal	#	61
20) Methylene Chloride	2.25	84	4192	2.605	ug/l #	82
25) 2-Butanone	4.34	43	1207	1.591	ug/l #	57
29) Tetrahydrofuran	4.09	42	551	1.713	ug/l #	64
41) Methacrylonitrile	4.74	41	170	Below Cal	#	23
43) Isopropyl Acetate	6.94	43	211	Below Cal	#	49
49) 1,4-Dioxane	6.81	88	66	6.303	ug/l #	23
59) 2-Hexanone	9.48	43	1477	1.444	ug/l #	27
64) Tetrachloroethene	8.15	164	9792	4.560	ug/l #	83
95) Naphthalene	14.46	128	2620	Below Cal	#	86

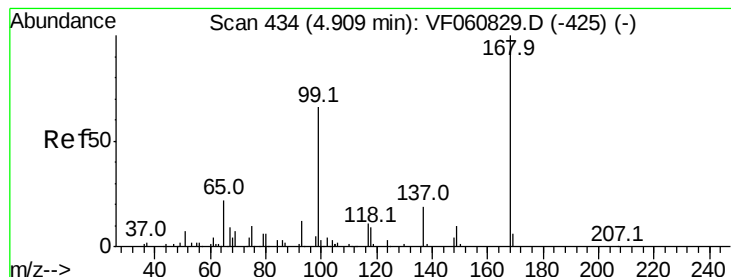
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

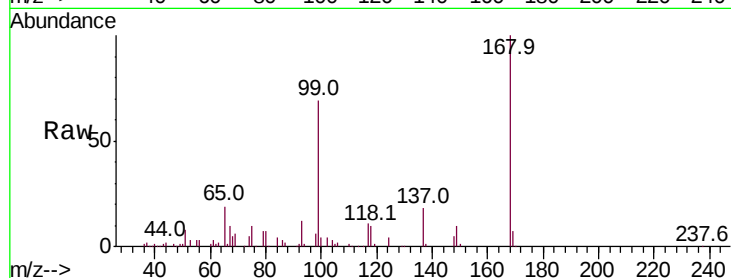
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 201929

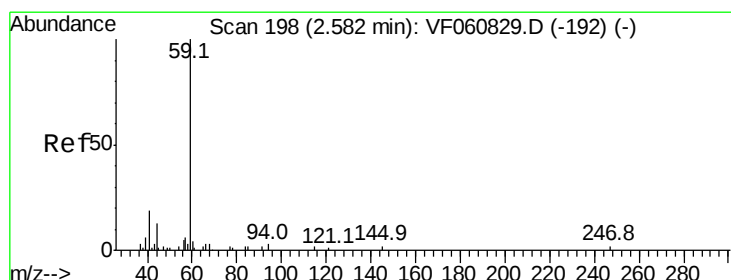
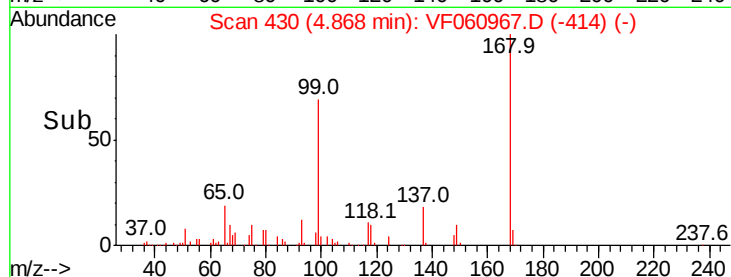
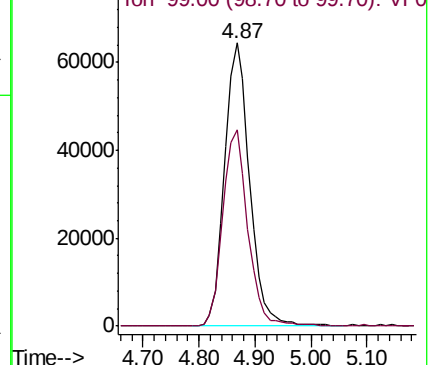
Ion Ratio Lower Upper

168 100

99 69.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 2.471 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060967.D

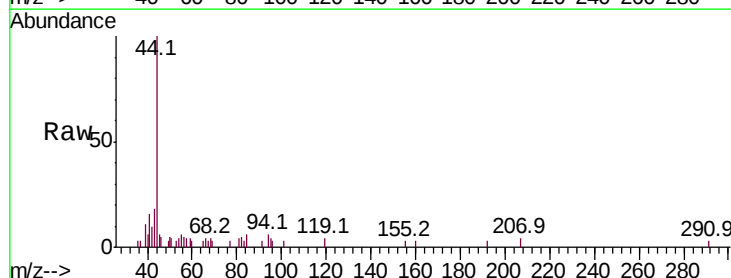
Acq: 10 Dec 2018 21:42

Tgt Ion: 59 Resp: 241

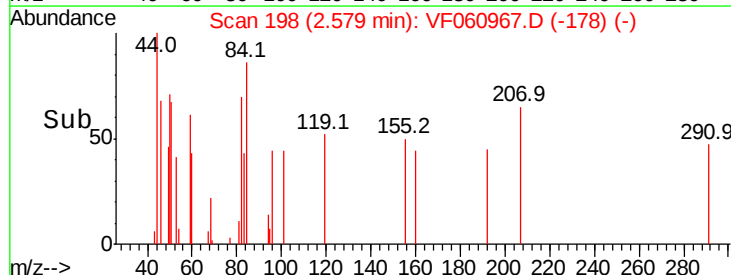
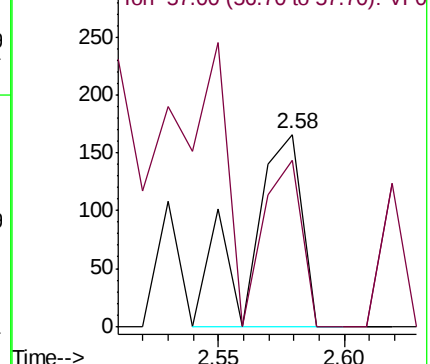
Ion Ratio Lower Upper

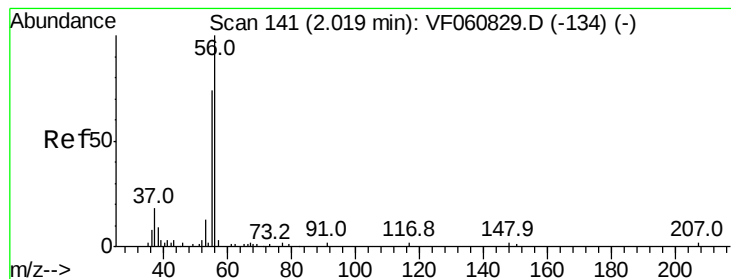
59 100

57 86.1 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 3.702 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.07 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

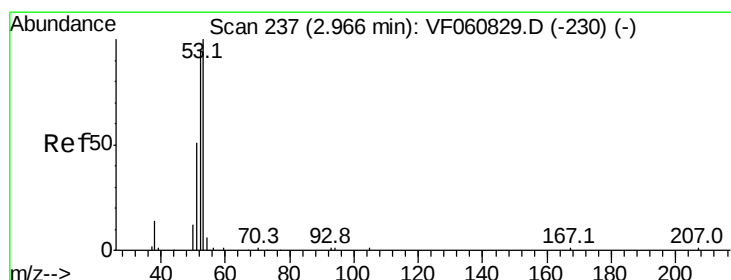
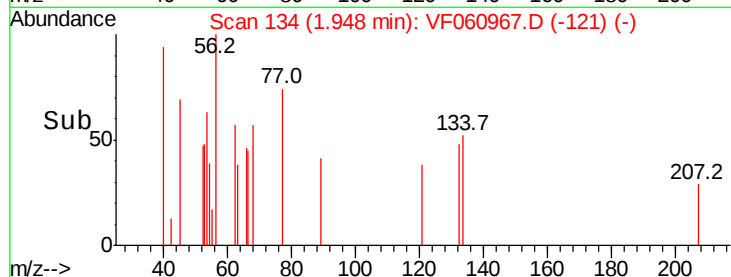
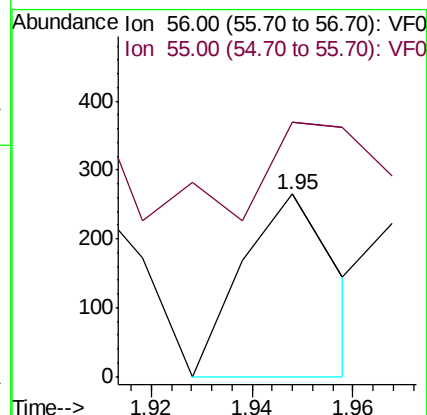
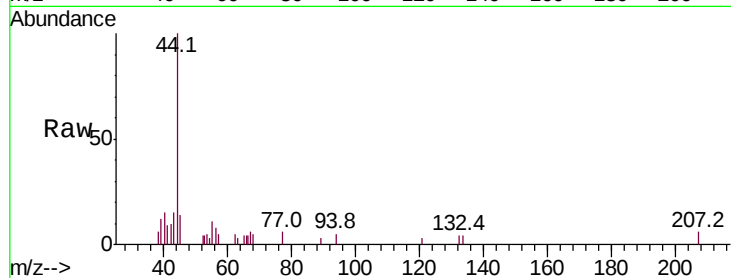
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 342

Ion Ratio Lower Upper

56 100

55 139.2 61.2 91.8#



#15

Acrylonitrile

Concen: 2.191 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

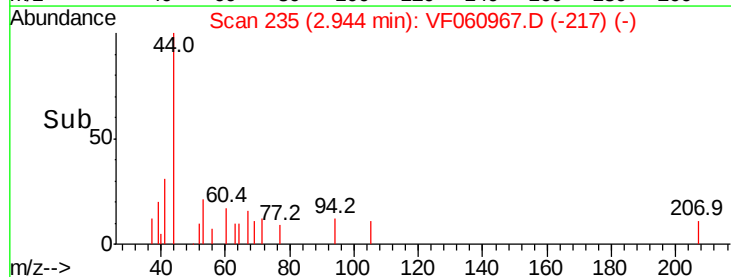
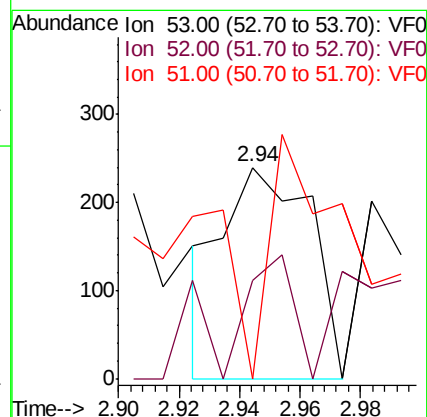
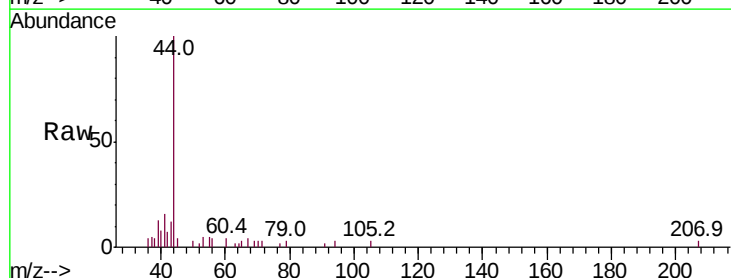
Tgt Ion: 53 Resp: 479

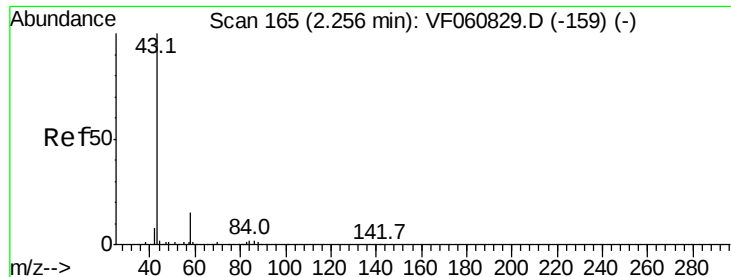
Ion Ratio Lower Upper

53 100

52 46.3 76.5 114.7#

51 0.0 40.7 61.1#





#16

Acetone

Concen: 4.277 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

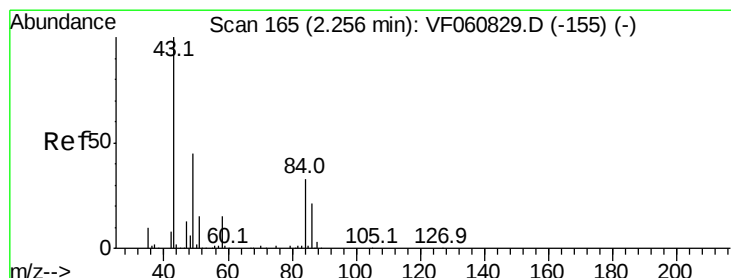
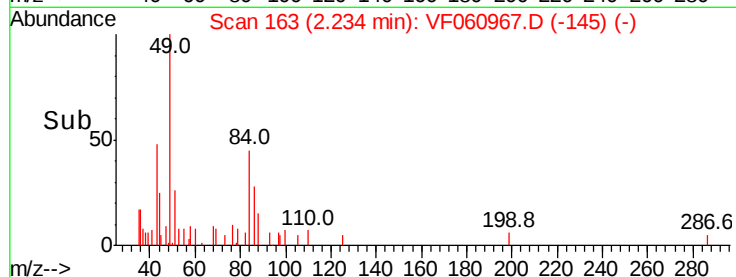
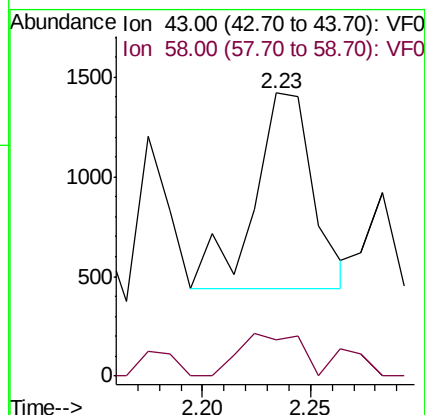
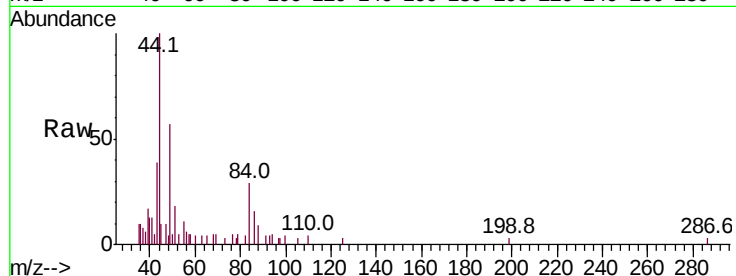
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1876

Ion Ratio Lower Upper

43 100

58 12.9 11.4 17.2



#20

Methylene Chloride

Concen: 2.605 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

Tgt Ion: 84 Resp: 4192

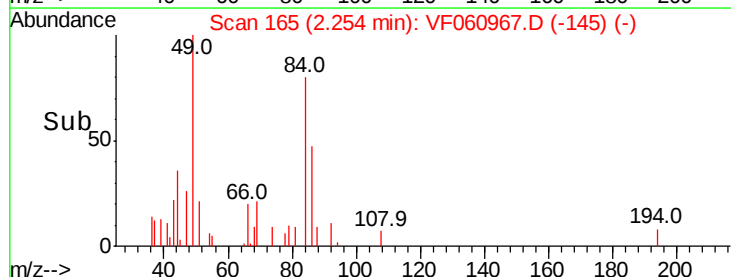
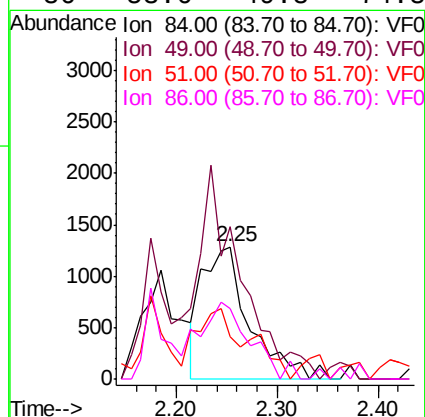
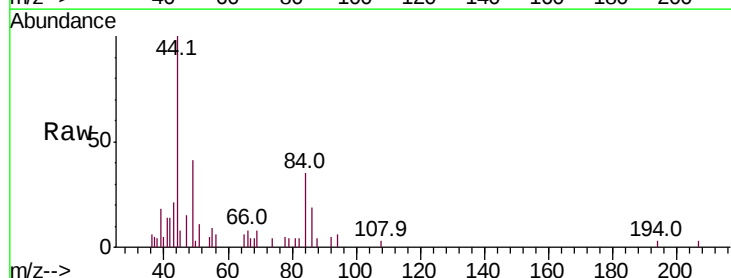
Ion Ratio Lower Upper

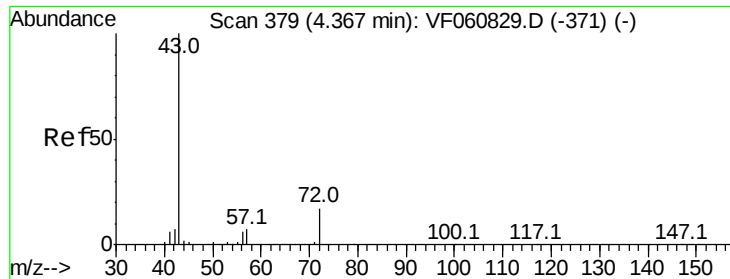
84 100

49 115.1 111.3 166.9

51 31.8 38.0 57.0#

86 53.6 49.8 74.8





#25

2-Butanone

Concen: 1.591 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

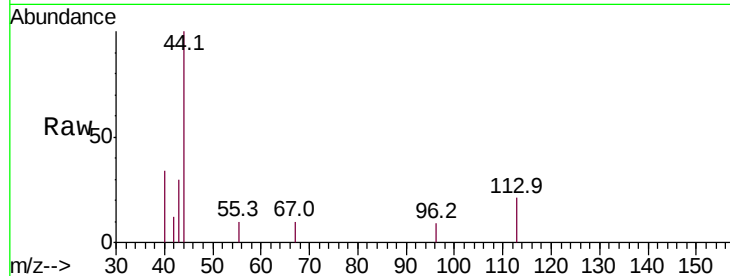
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1207

Ion Ratio Lower Upper

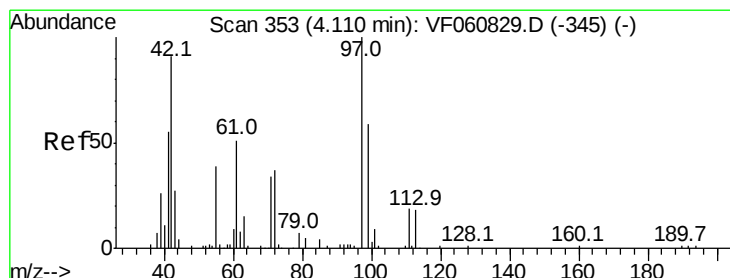
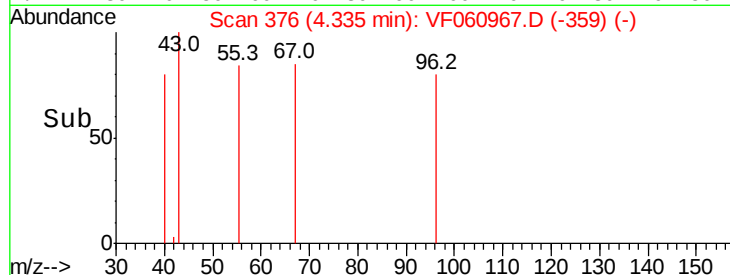
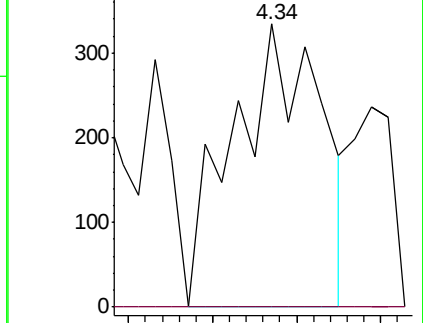
43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 1.713 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

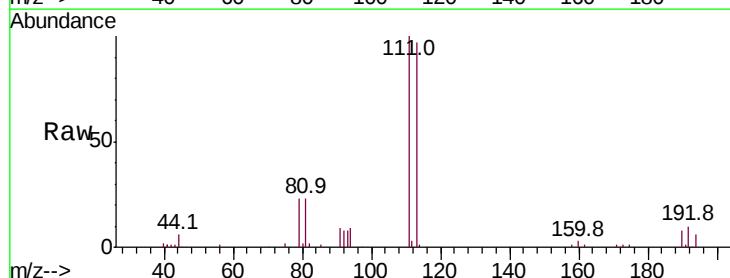
Tgt Ion: 42 Resp: 551

Ion Ratio Lower Upper

42 100

72 31.8 31.9 47.9#

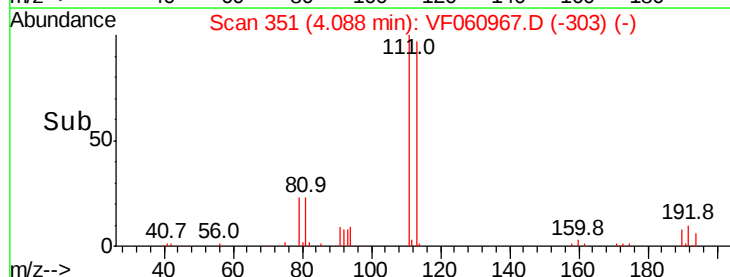
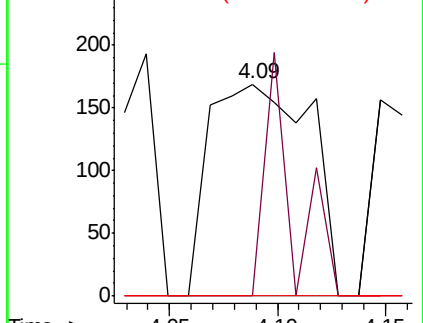
71 0.0 28.7 43.1#

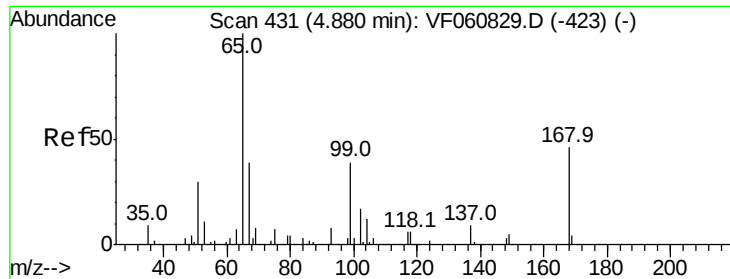


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 45.136 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

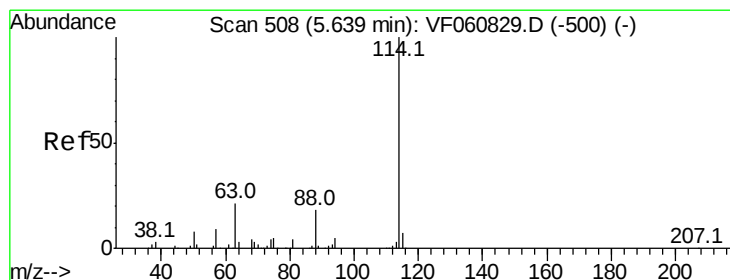
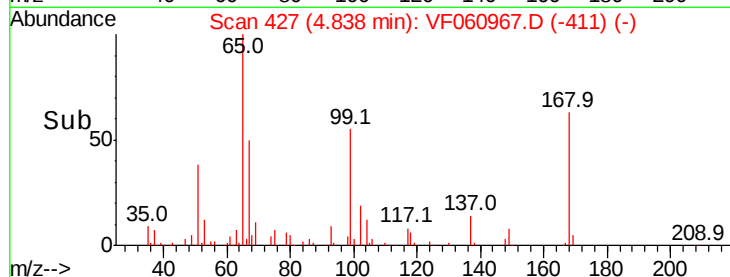
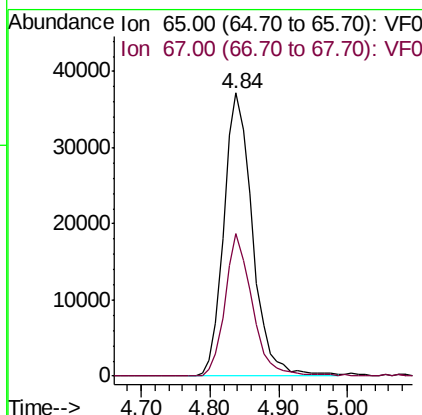
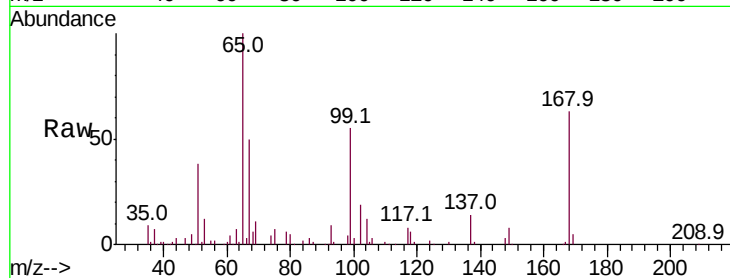
Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 107368

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	96.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

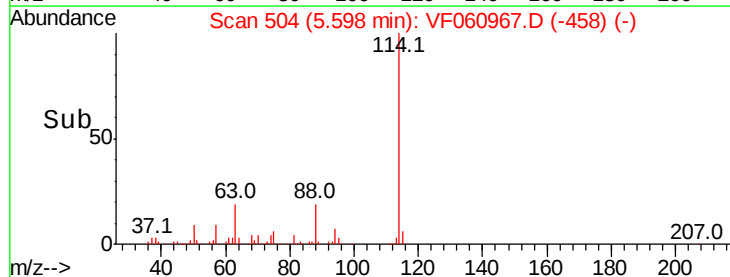
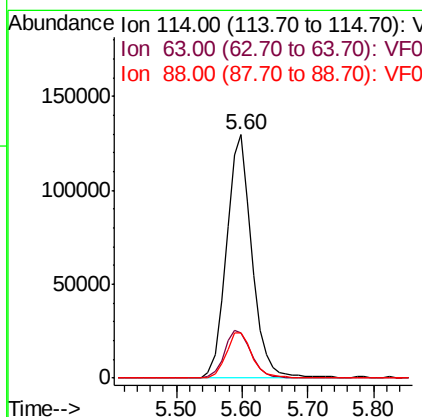
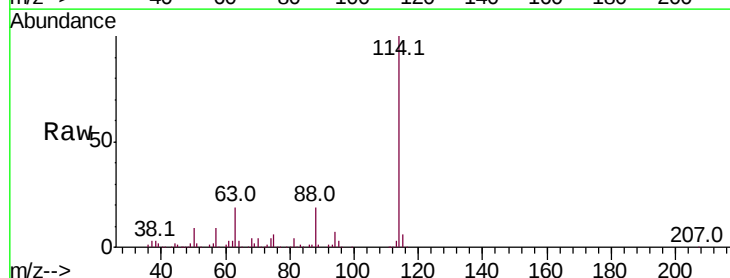
Delta R.T. -0.04 min

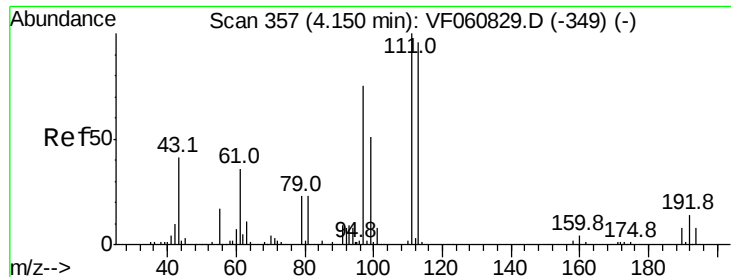
Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

Tgt Ion: 114 Resp: 350661

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	41.6
88	18.8	0.0	36.6

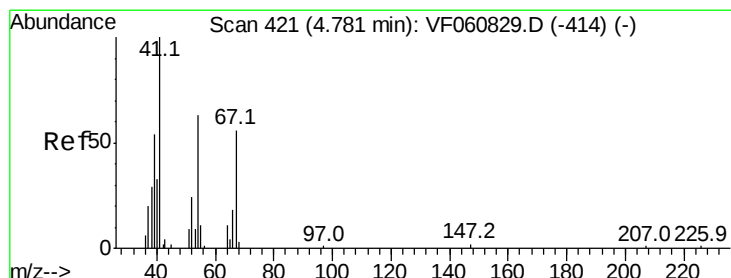
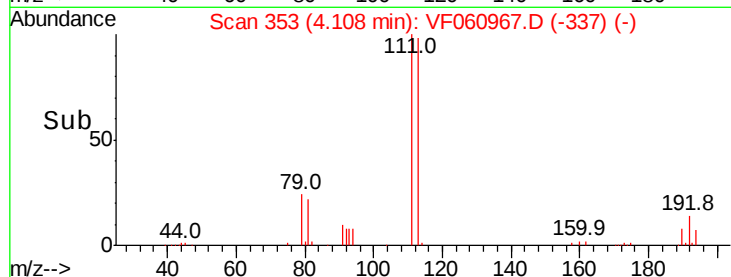
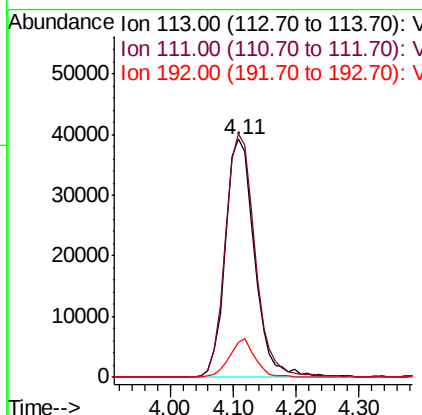
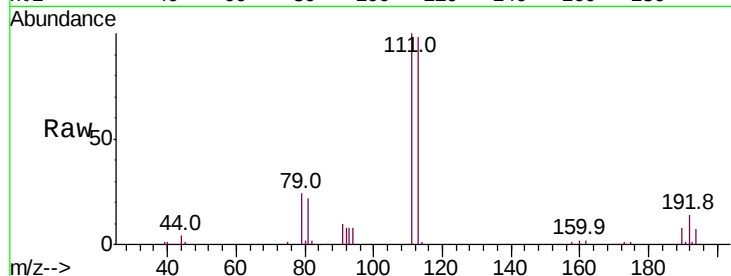




#35
Dibromofluoromethane
Concen: 45.260 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060967.D
Acq: 10 Dec 2018 21:42

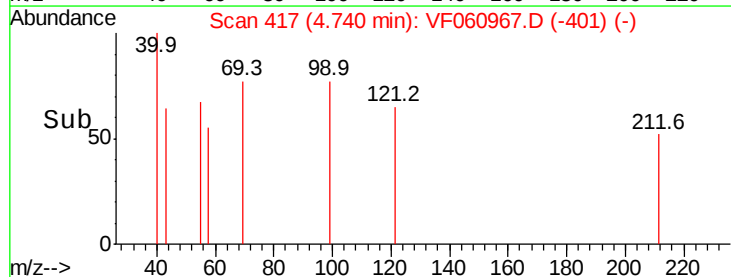
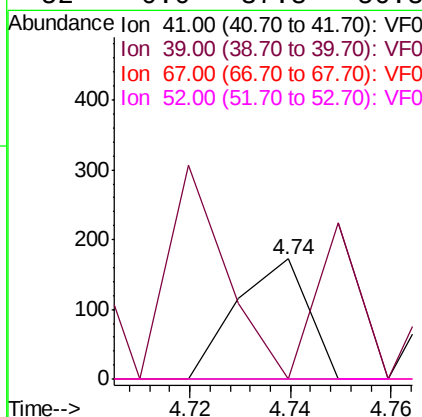
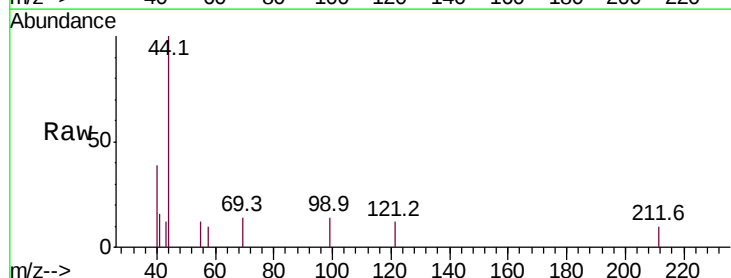
Instrument :
MSVOA_F
ClientSampleId :

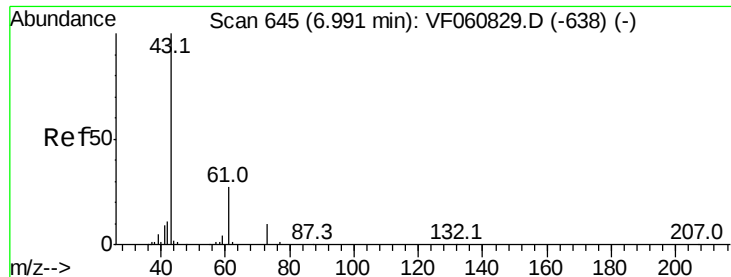
Tot Ion:113 Resp: 125907
Ion Ratio Lower Upper
113 100
111 102.2 83.0 124.6
192 14.6 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060967.D
Acq: 10 Dec 2018 21:42

Tgt Ion: 41 Resp: 170
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



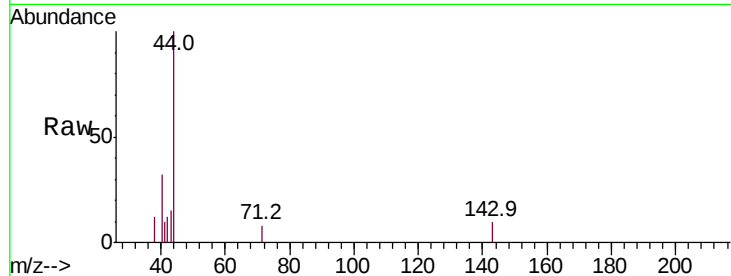


#43

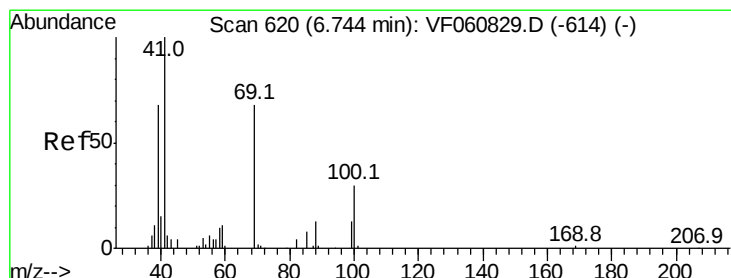
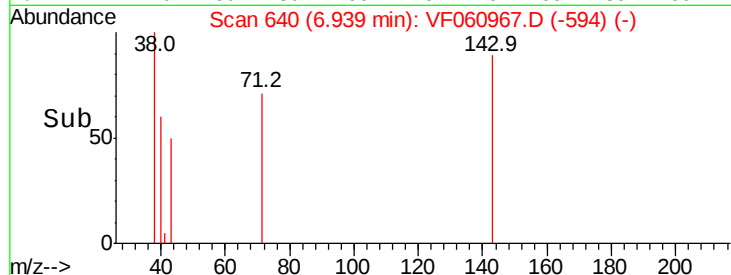
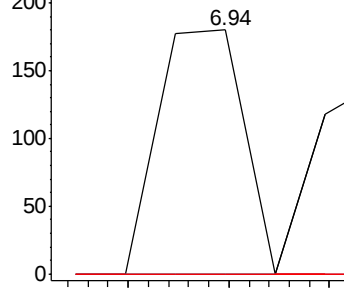
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 640
 Delta R.T. -0.05 min
 Lab File: VF060967.D
 Acq: 10 Dec 2018 21:42

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 211
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



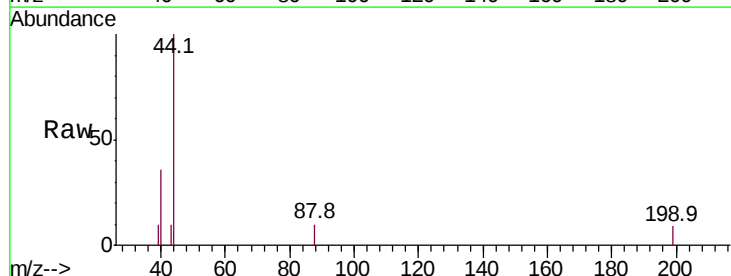
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



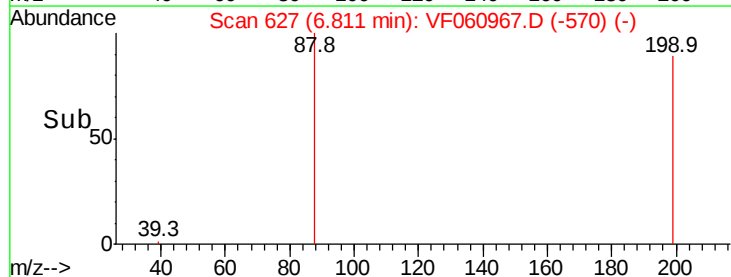
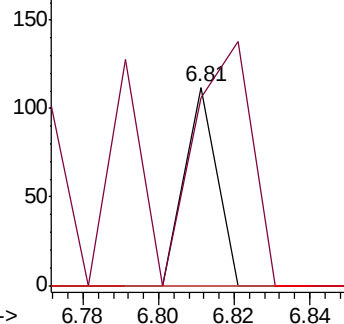
#49

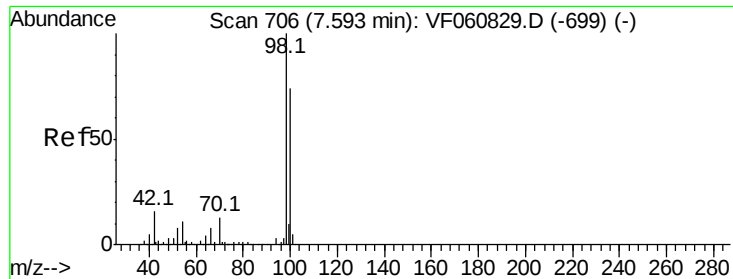
1,4-Dioxane
 Concen: 6.303 ug/l
 RT: 6.81 min Scan# 627
 Delta R.T. 0.07 min
 Lab File: VF060967.D
 Acq: 10 Dec 2018 21:42

Tgt Ion: 88 Resp: 66
 Ion Ratio Lower Upper
 88 100
 43 94.6 42.0 63.0#
 58 0.0 61.8 92.8#



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: 34.455 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

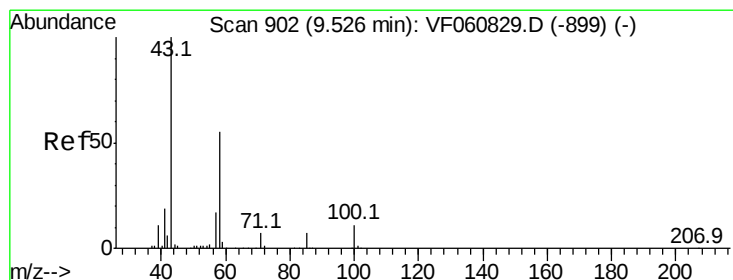
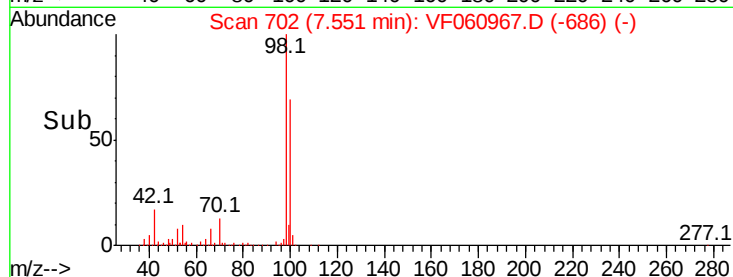
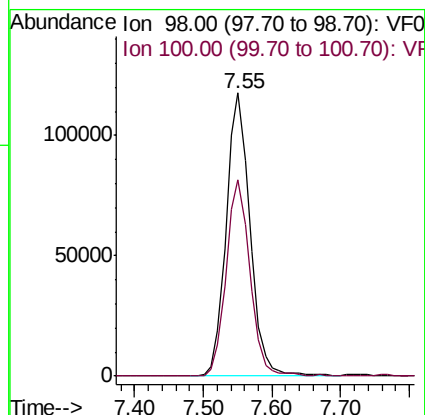
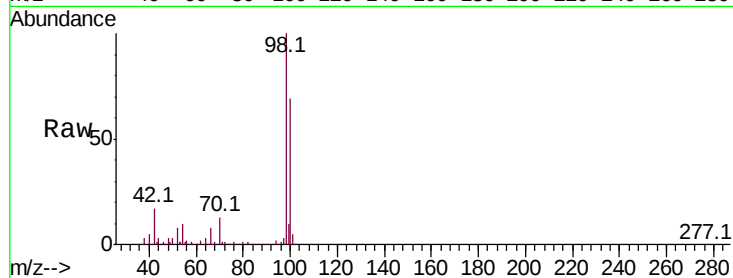
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 282343

Ion Ratio Lower Upper

98 100

100 69.4 59.3 88.9



#59

2-Hexanone

Concen: 1.444 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.04 min

Lab File: VF060967.D

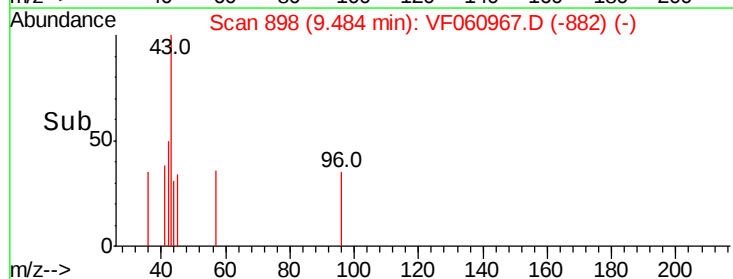
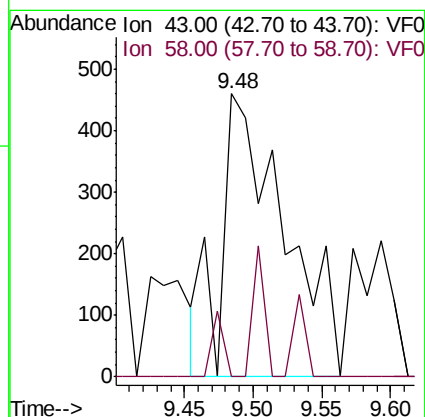
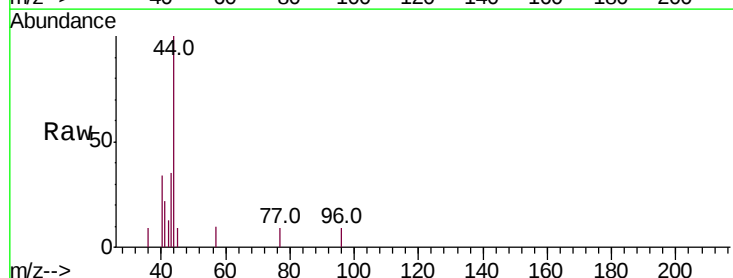
Acq: 10 Dec 2018 21:42

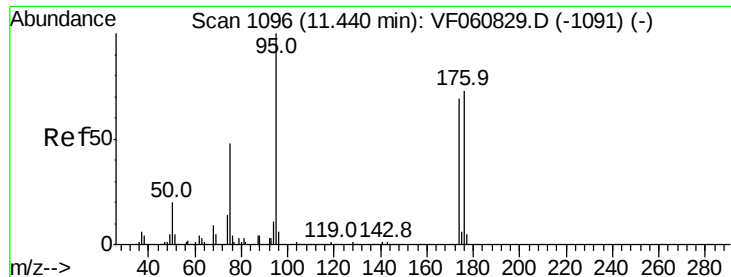
Tgt Ion: 43 Resp: 1477

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#





#62

4-Bromofluorobenzene

Concen: 28.500 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

Instrument :

MSVOA_F

ClientSampled :

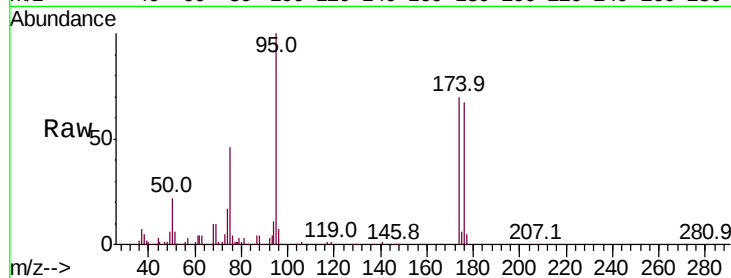
Tot Ion: 95 Resp: 106144

Ion Ratio Lower Upper

95 100

174 70.2 0.0 138.2

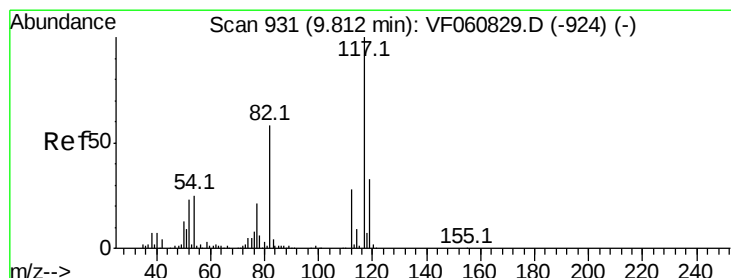
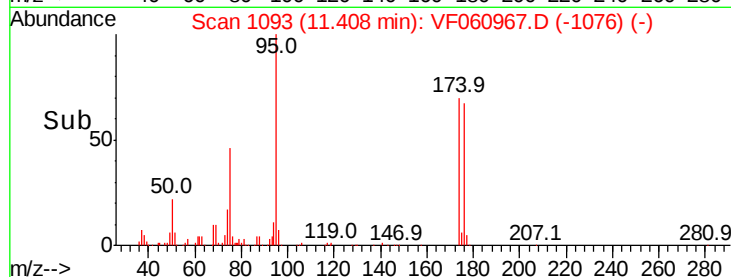
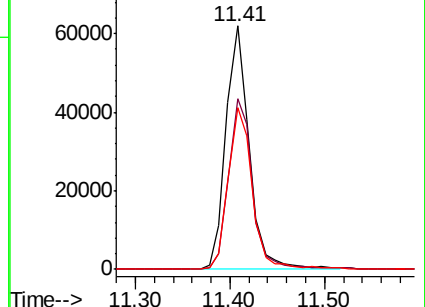
176 66.6 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

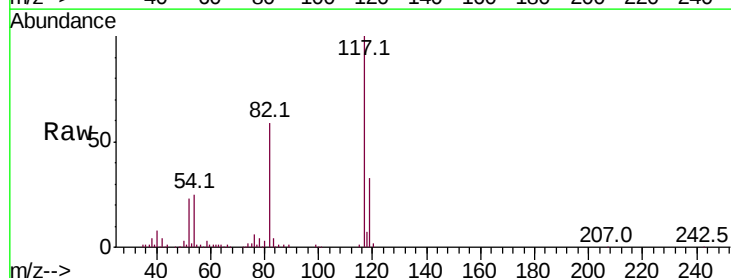
Tgt Ion: 117 Resp: 281162

Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

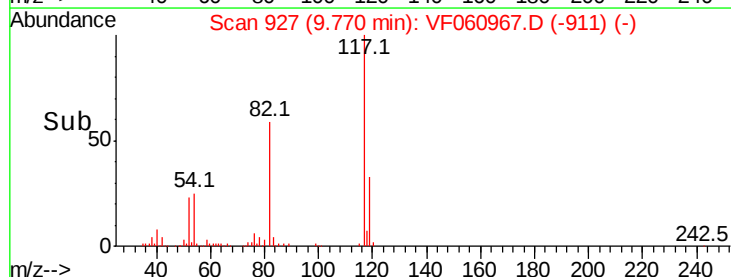
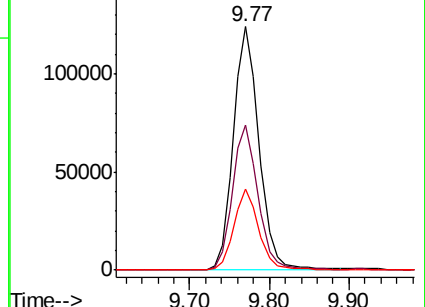
119 33.1 26.4 39.6

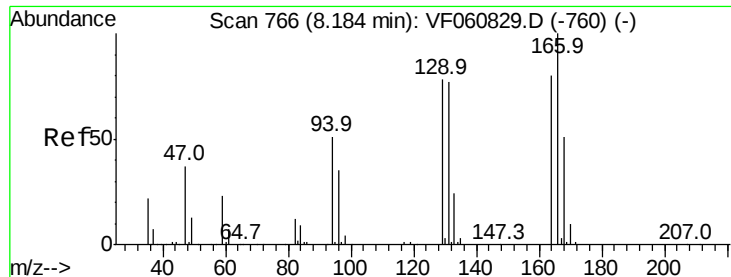


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 4.560 ug/l

RT: 8.15 min Scan# 763

Delta R.T. -0.03 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:164 Resp: 9792

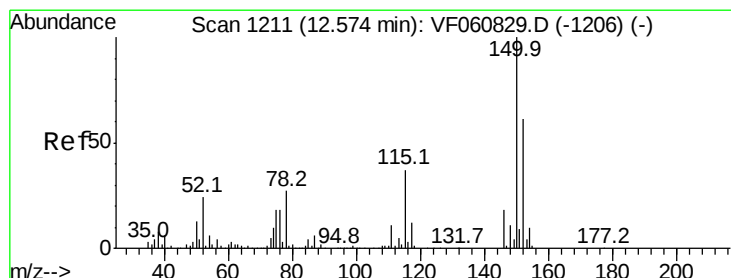
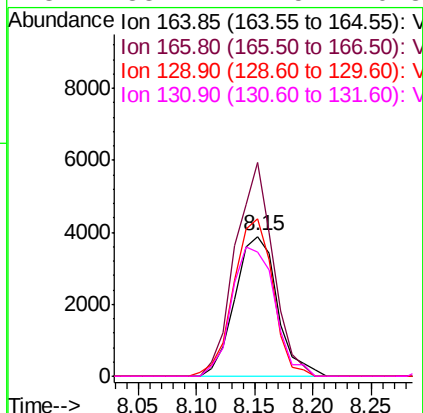
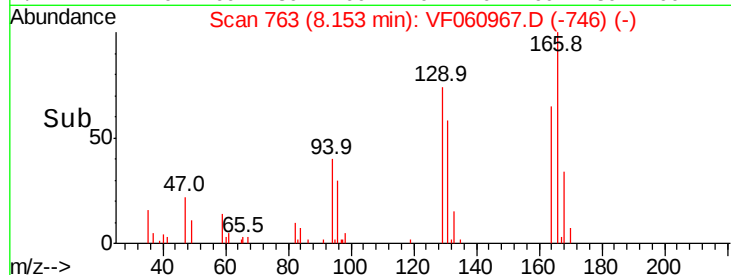
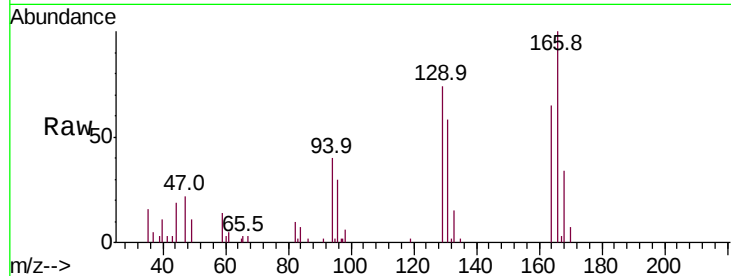
Ion Ratio Lower Upper

164 100

166 152.7 100.3 150.5#

129 112.8 77.9 116.9

131 88.4 77.5 116.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060967.D

Acq: 10 Dec 2018 21:42

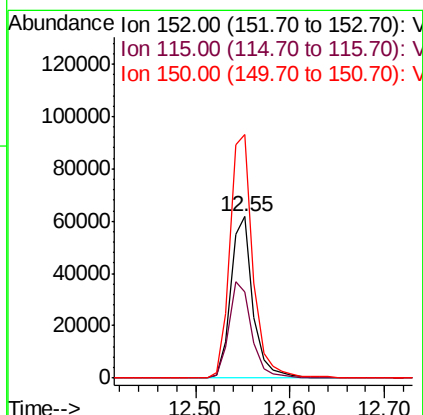
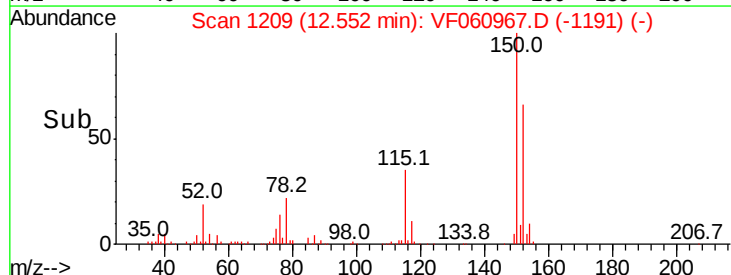
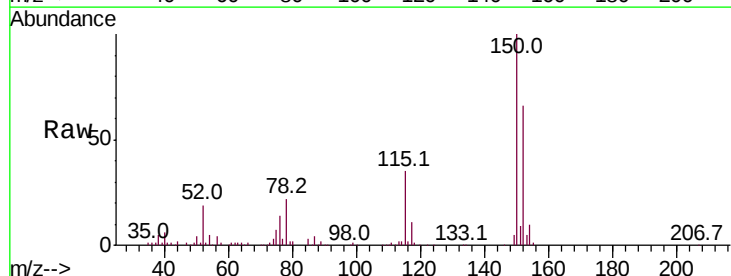
Tgt Ion:152 Resp: 100316

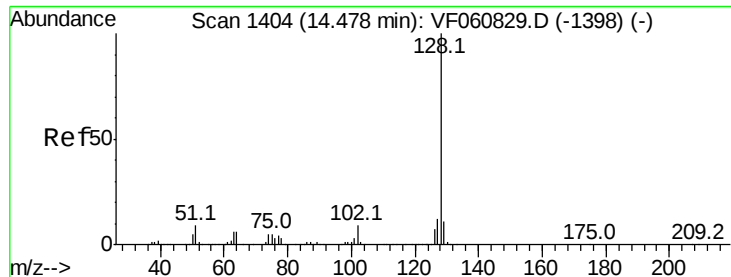
Ion Ratio Lower Upper

152 100

115 53.5 30.1 90.5

150 150.8 0.0 327.6

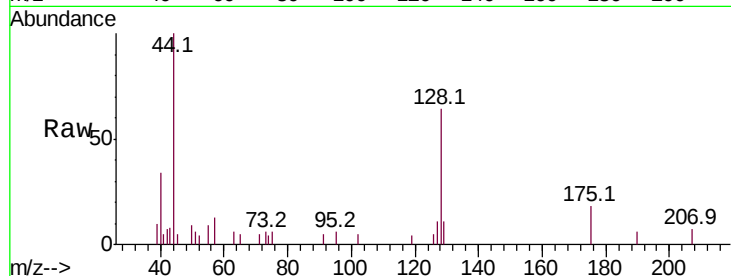




#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060967.D
Acq: 10 Dec 2018 21:42

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 2620
Ion Ratio Lower Upper
128 100
127 17.2 9.9 14.9#
129 17.2 9.1 13.7#



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

