

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\
 Data File : VF061178.D
 Acq On : 24 Dec 2018 21:27
 Operator : VA/AP
 Sample : J6446-16
 Misc : 4.07g/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 23:49:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	27102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	33020	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	16981	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	3481	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	6328	18.15	ug/l	0.02
Spiked Amount	50.000		Recovery	=	36.30%	
35) Dibromofluoromethane	4.11	113	10434	39.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.90%	
50) Toluene-d8	7.56	98	30043	40.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.16%	
62) 4-Bromofluorobenzene	11.42	95	5411	15.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	31.32%	

Target Compounds

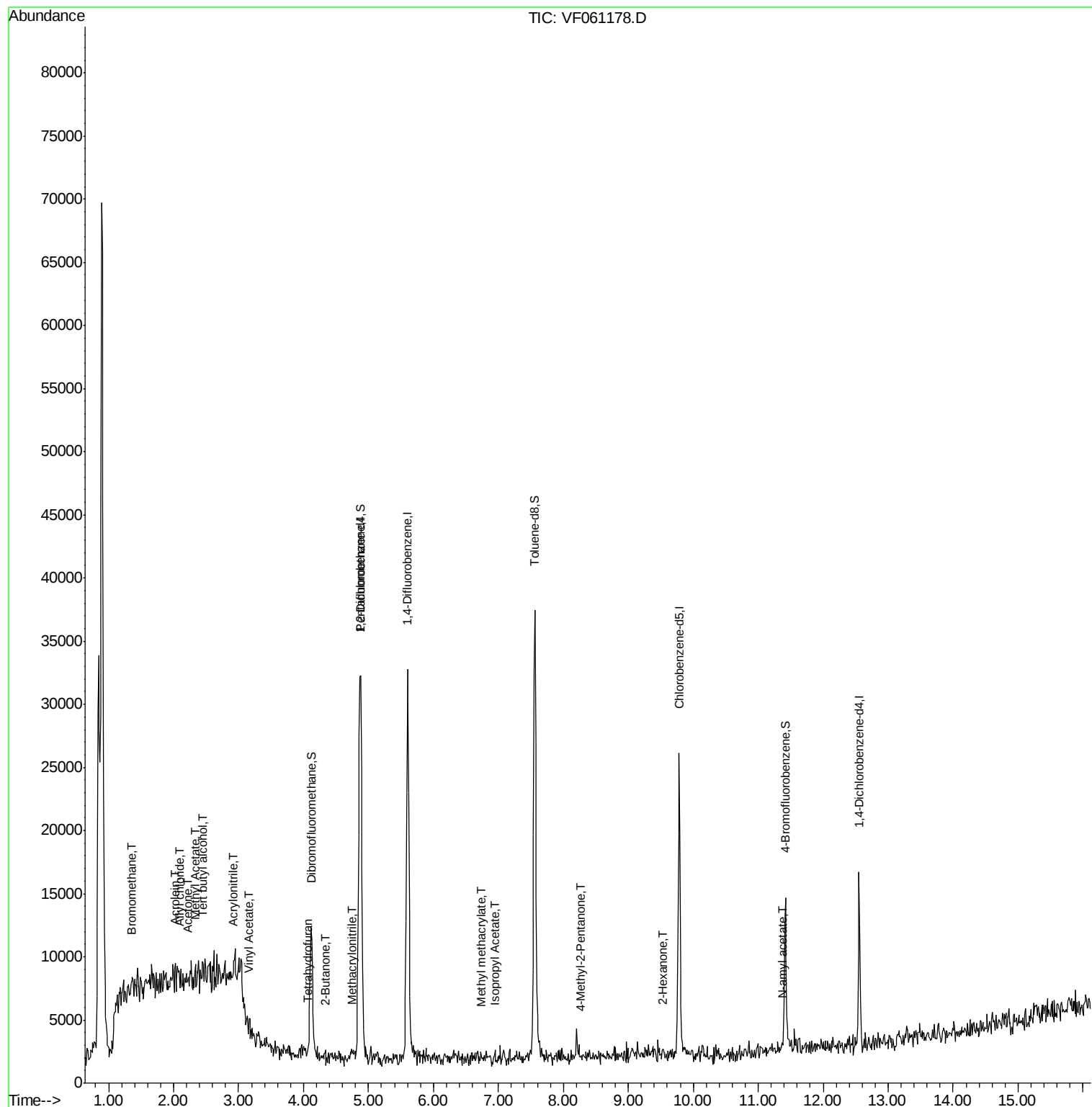
						Qvalue
5) Bromomethane	1.35	94	583	2.626	ug/l #	29
11) Tert butyl alcohol	2.44	59	122	8.673	ug/l #	1
13) Acrolein	2.01	56	207	20.365	ug/l	85
14) Allyl chloride	2.08	41	708	2.848	ug/l #	62
15) Acrylonitrile	2.91	53	586	18.016	ug/l #	29
16) Acetone	2.23	43	607	8.711	ug/l #	66
18) Methyl Acetate	2.33	43	591	4.099	ug/l #	66
20) Methylene Chloride	2.17	84	62	Below Cal	#	1
23) Vinyl Acetate	3.17	43	688	1.801	ug/l #	78
25) 2-Butanone	4.33	43	202	1.787	ug/l #	57
29) Tetrahydrofuran	4.06	42	144	3.131	ug/l #	37
41) Methacrylonitrile	4.74	41	575	6.831	ug/l #	27
43) Isopropyl Acetate	6.95	43	325	1.689	ug/l #	45
48) Methyl methacrylate	6.74	41	253	1.883	ug/l #	19
51) 4-Methyl-2-Pentanone	8.28	43	279	2.114	ug/l #	38
59) 2-Hexanone	9.52	43	104	1.090	ug/l #	27
74) N-amyl acetate	11.36	43	140	2.102	ug/l #	46

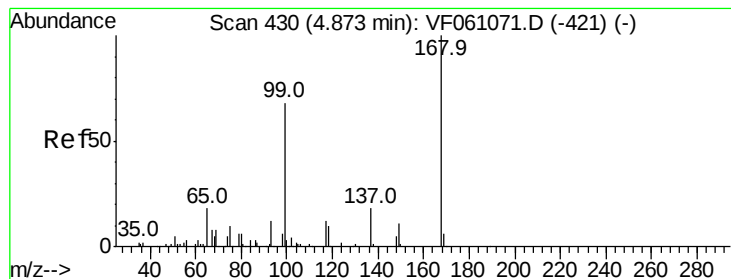
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

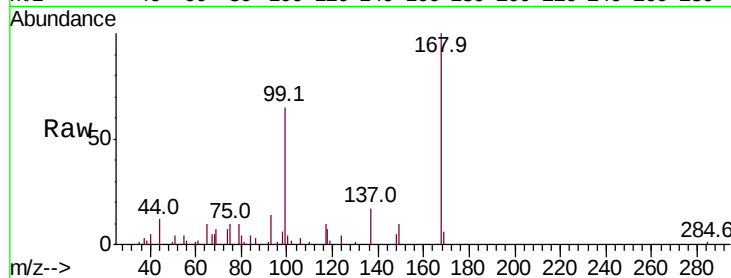
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 27102

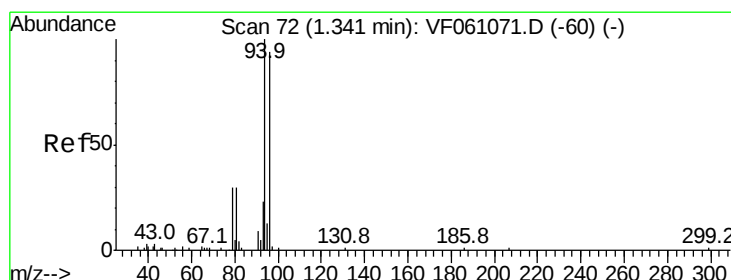
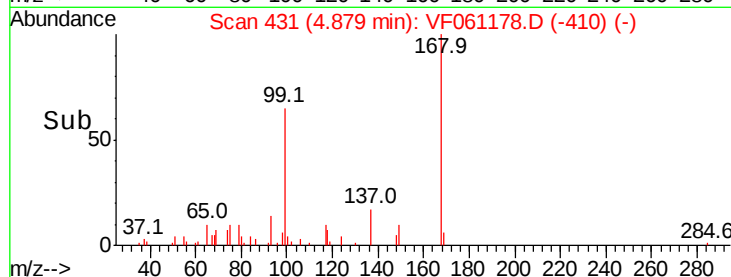
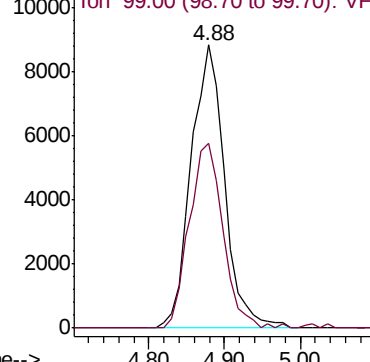
Ion Ratio Lower Upper

168 100

99 65.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 2.626 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF061178.D

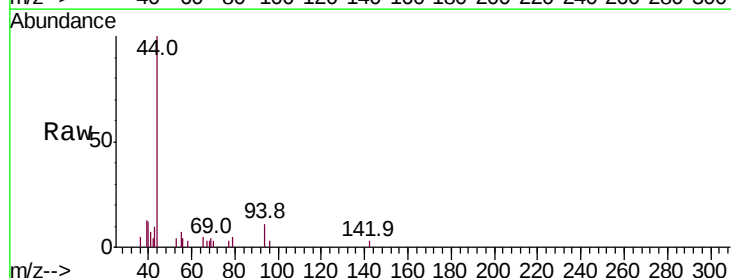
Acq: 24 Dec 2018 21:27

Tgt Ion: 94 Resp: 583

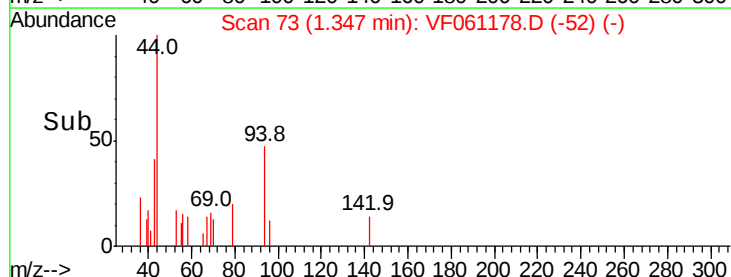
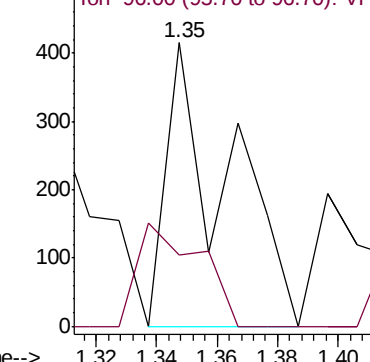
Ion Ratio Lower Upper

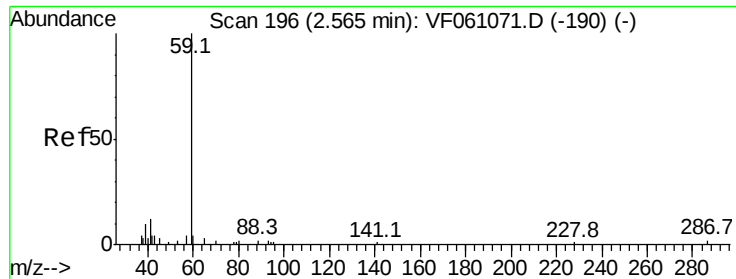
94 100

96 25.1 74.4 111.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0



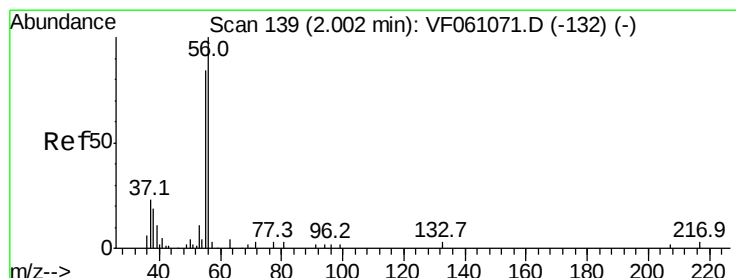
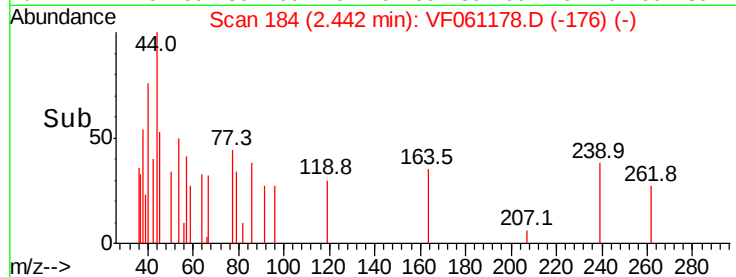
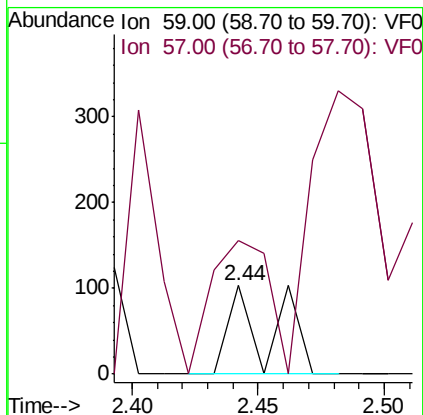
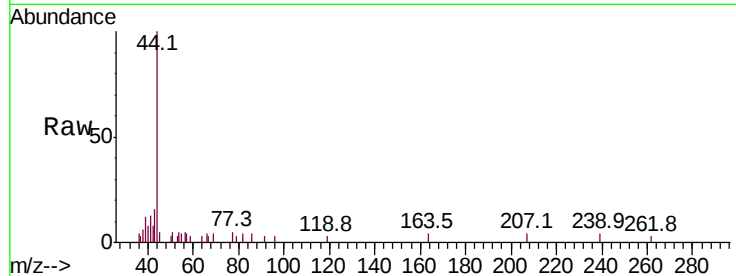


#11

Tert butyl alcohol
 Concen: 8.673 ug/l
 RT: 2.44 min Scan# 184
 Delta R.T. -0.12 min
 Lab File: VF061178.D
 Acq: 24 Dec 2018 21:27

Instrument :
 MSVOA_F
 ClientSampleId :

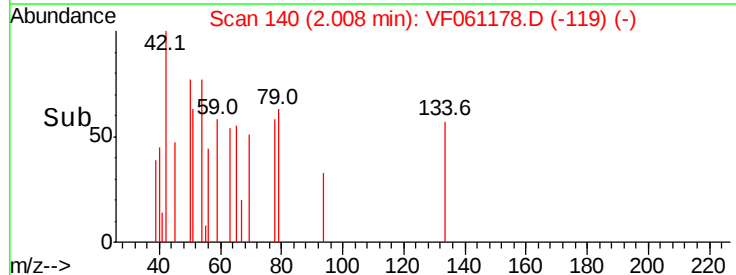
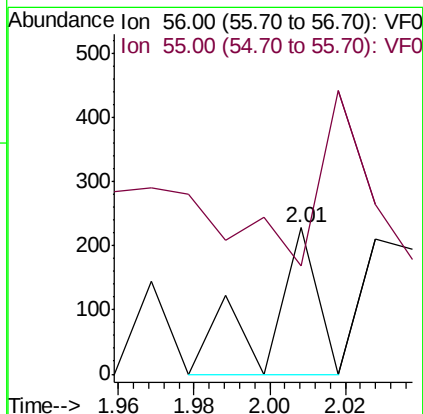
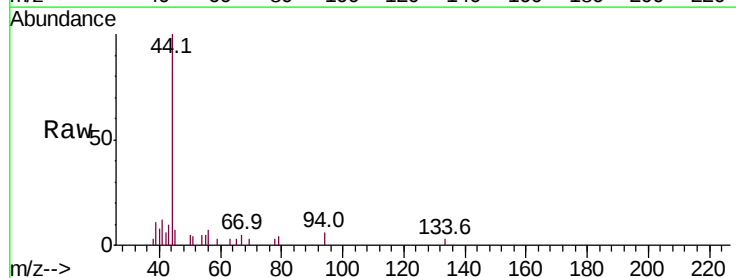
Tot Ion: 59 Resp: 122
 Ion Ratio Lower Upper
 59 100
 57 151.5 11.5 17.3#

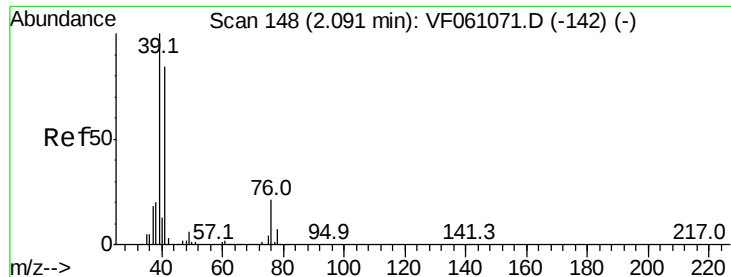


#13

Acrolein
 Concen: 20.365 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. 0.01 min
 Lab File: VF061178.D
 Acq: 24 Dec 2018 21:27

Tgt Ion: 56 Resp: 207
 Ion Ratio Lower Upper
 56 100
 55 73.7 70.2 105.2

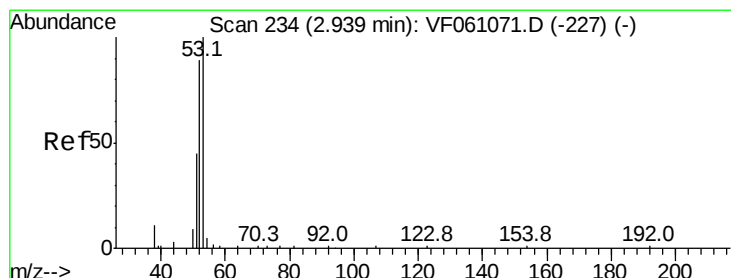
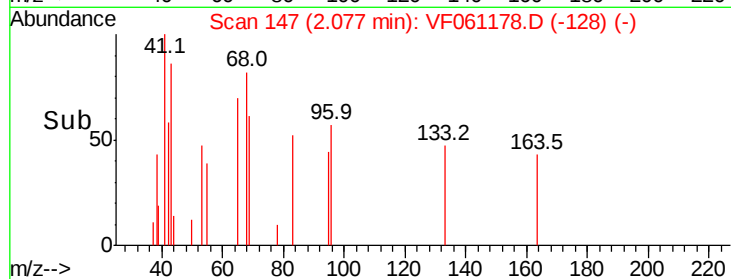
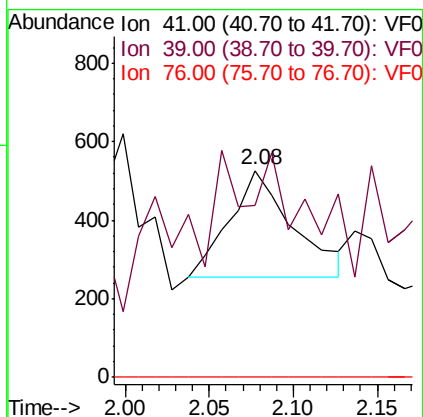
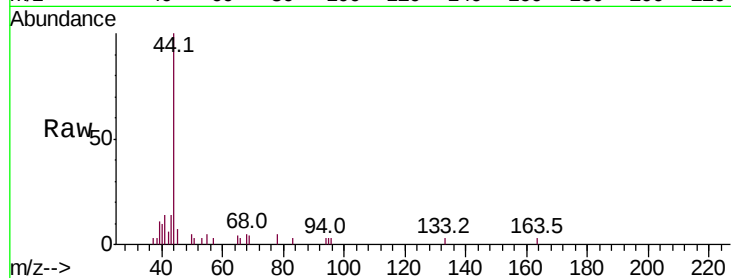




#14
Allvl chloride
Concen: 2.848 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

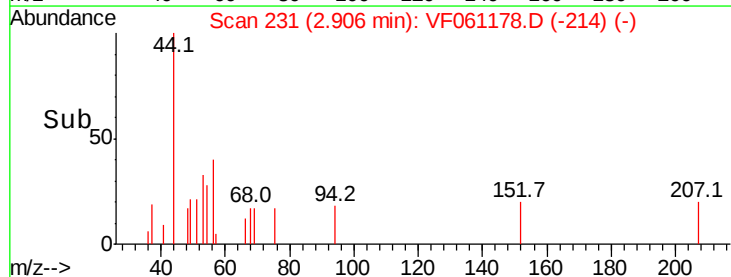
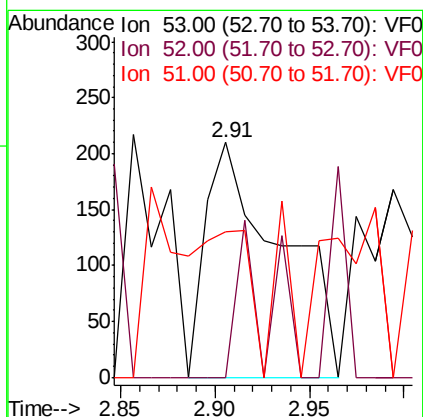
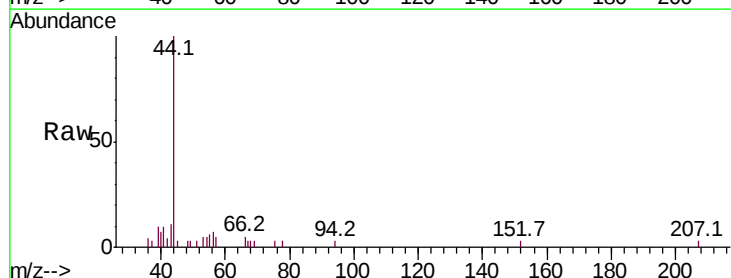
Instrument :
MSVOA_F
ClientSampled :

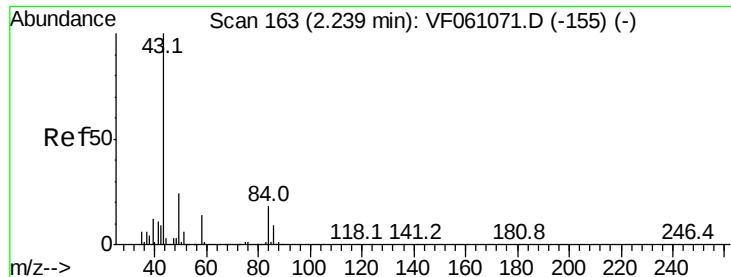
Tot Ion: 41 Resp: 708
Ion Ratio Lower Upper
41 100
39 83.3 96.4 144.6#
76 0.0 25.4 38.0#



#15
Acrylonitrile
Concen: 18.016 ug/l
RT: 2.91 min Scan# 231
Delta R.T. -0.03 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion: 53 Resp: 586
Ion Ratio Lower Upper
53 100
52 0.0 71.3 106.9#
51 61.9 36.8 55.2#

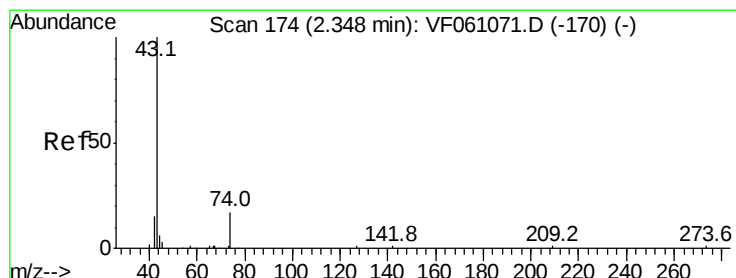
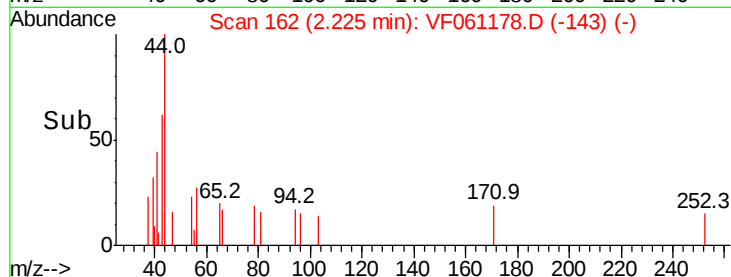
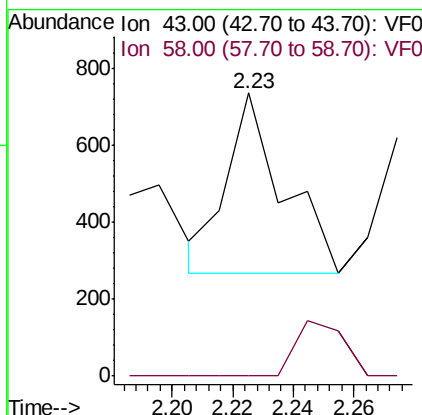
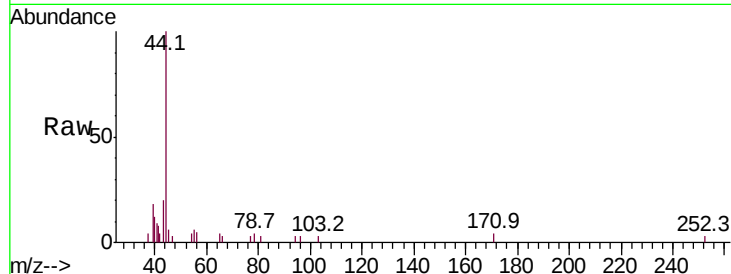




#16
Acetone
Concen: 8.711 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

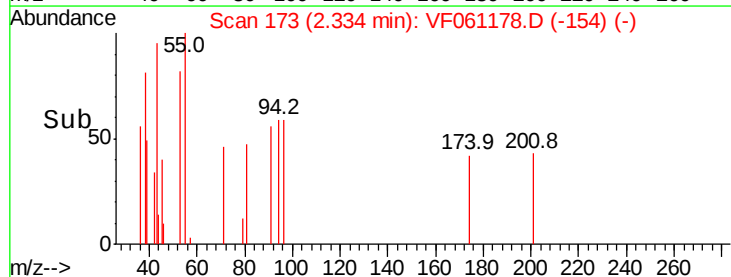
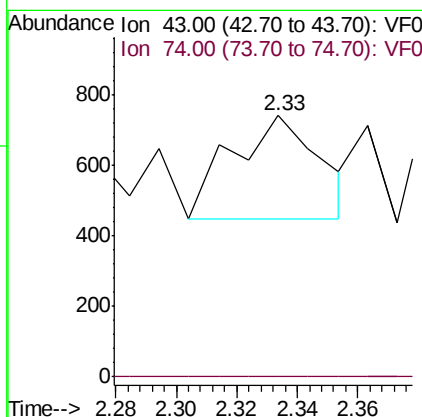
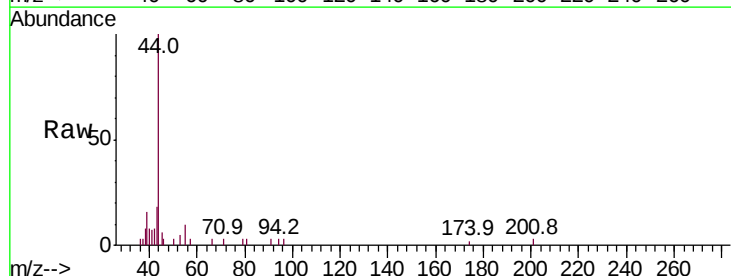
Instrument :
MSVOA_F
ClientSampleId :

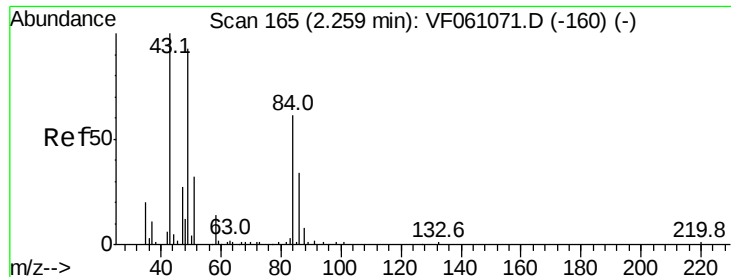
Tot Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
58 0.0 11.1 16.7#



#18
Methyl Acetate
Concen: 4.099 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion: 43 Resp: 591
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

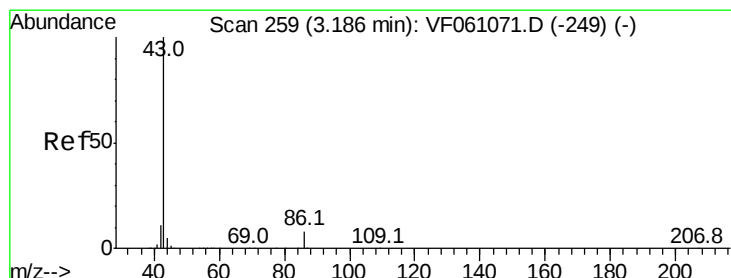
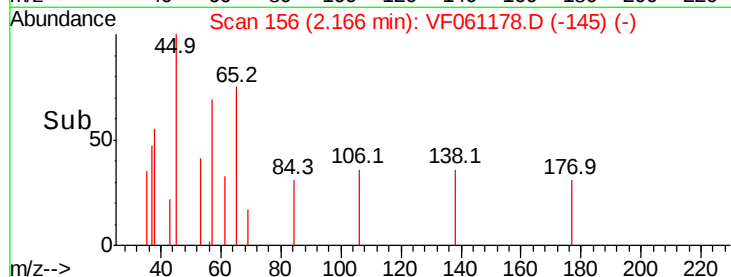
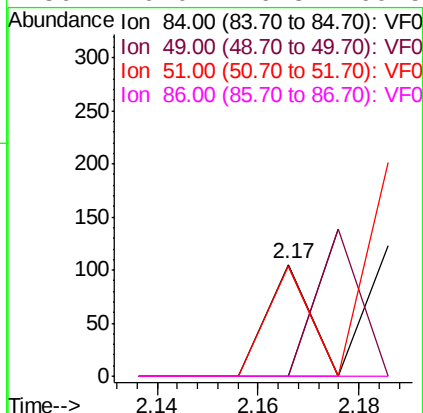
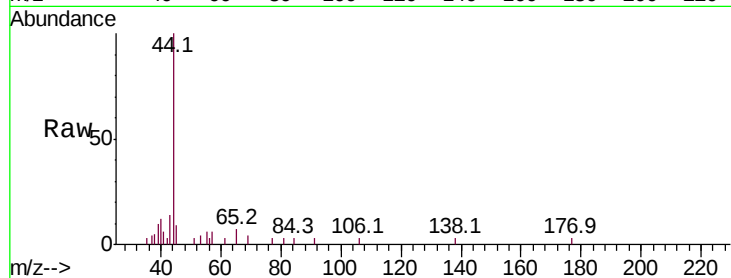




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.17 min Scan# 156
Delta R.T. -0.09 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

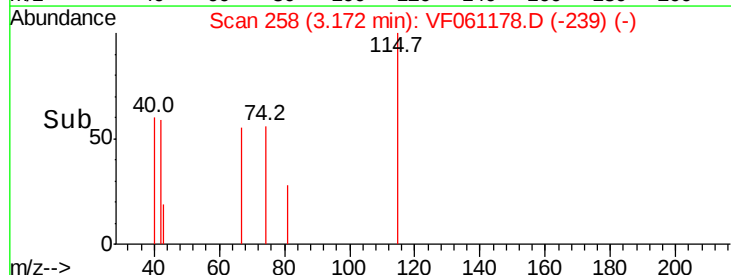
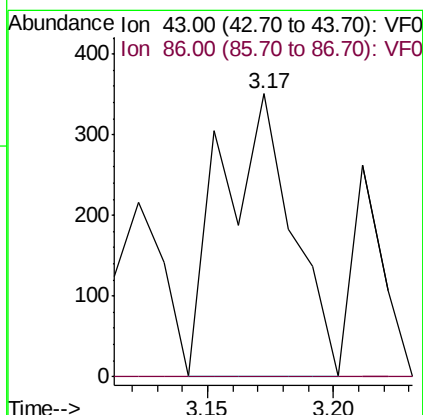
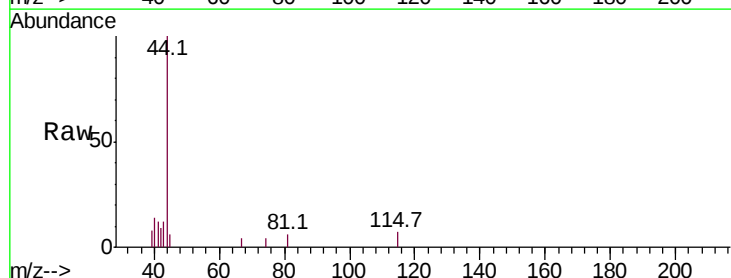
Instrument :
MSVOA_F
ClientSampleId :

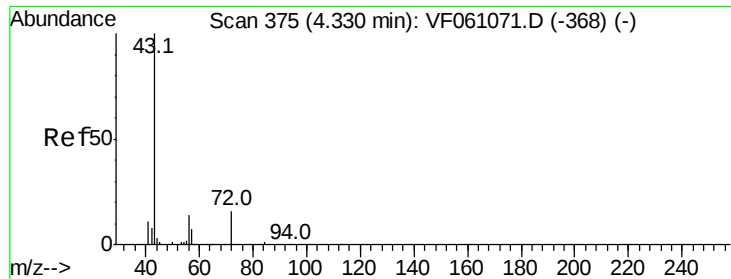
Tot Ion: 84 Resp: 62
Ion Ratio Lower Upper
84 100
49 0.0 129.4 194.2#
51 99.0 44.0 66.0#
86 0.0 46.3 69.5#



#23
Vinyl Acetate
Concen: 1.801 ug/l
RT: 3.17 min Scan# 258
Delta R.T. -0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
86 0.0 6.3 9.5#





#25

2-Butanone

Concen: 1.787 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

Instrument :

MSVOA_F

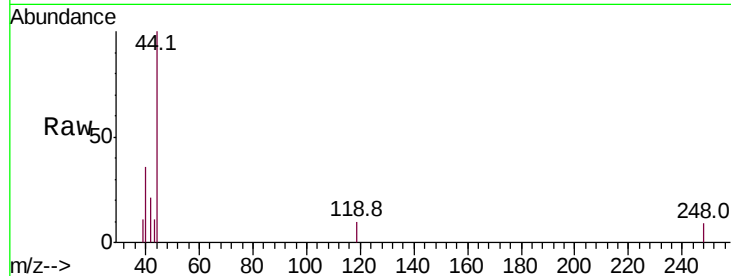
ClientSampled :

Tot Ion: 43 Resp: 202

Ion Ratio Lower Upper

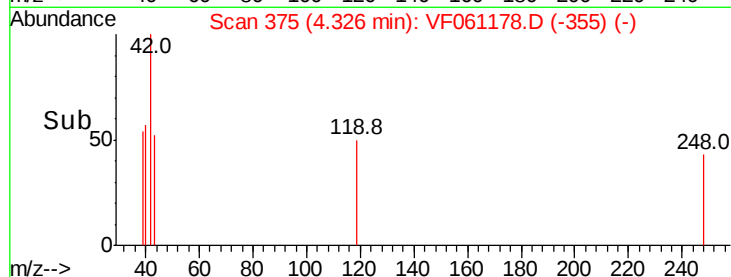
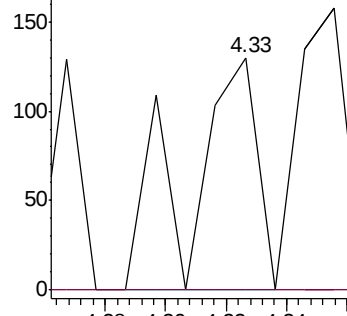
43 100

72 0.0 15.6 23.4#

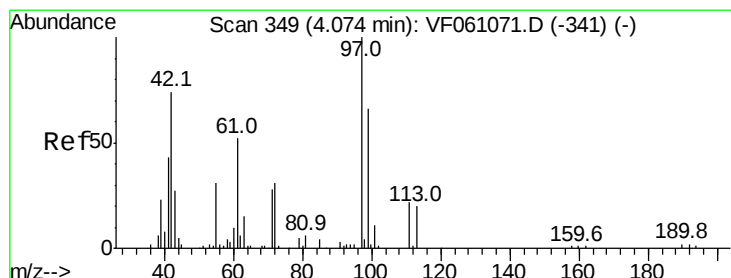


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 3.131 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

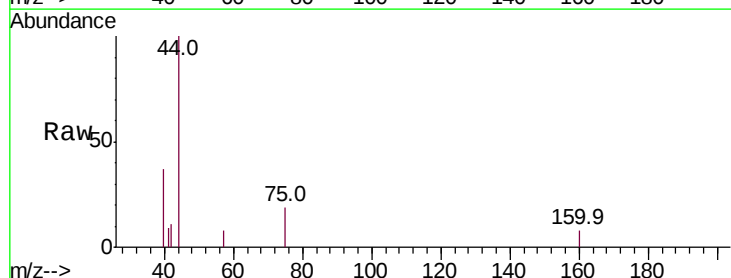
Tgt Ion: 42 Resp: 144

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

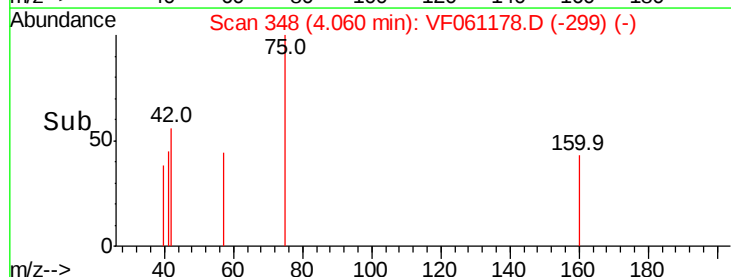
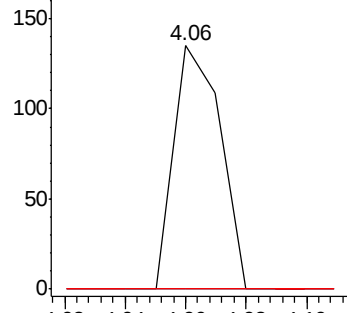
71 0.0 29.7 44.5#



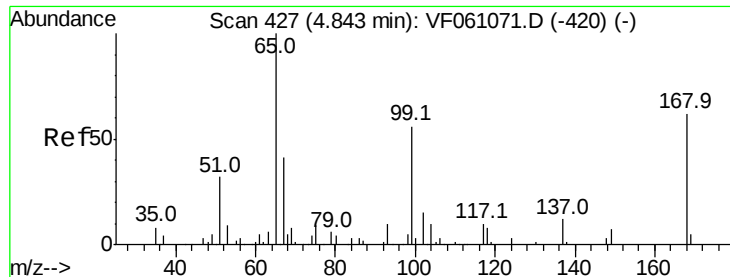
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 18.154 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

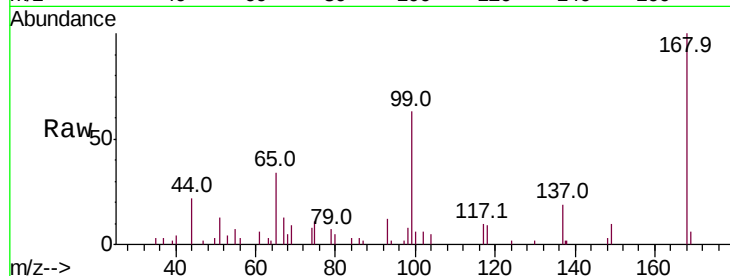
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 6328

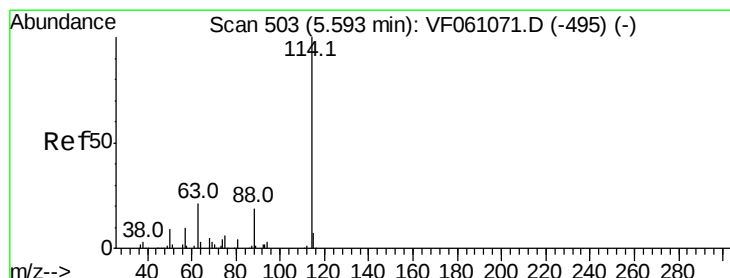
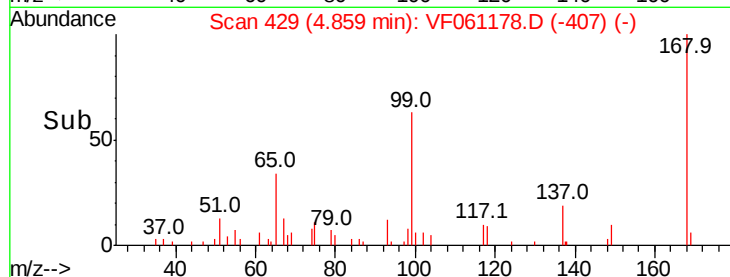
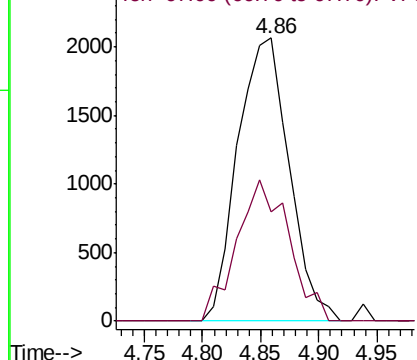
Ion Ratio Lower Upper

65 100

67 38.8 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

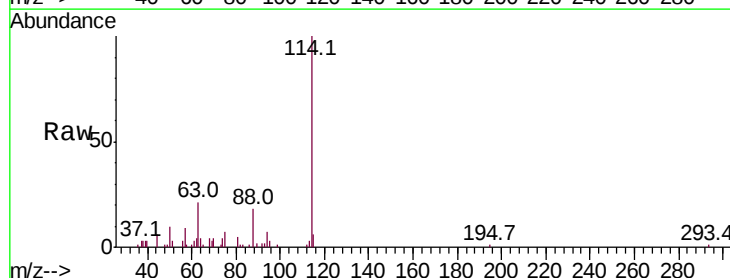
Tgt Ion: 114 Resp: 33020

Ion Ratio Lower Upper

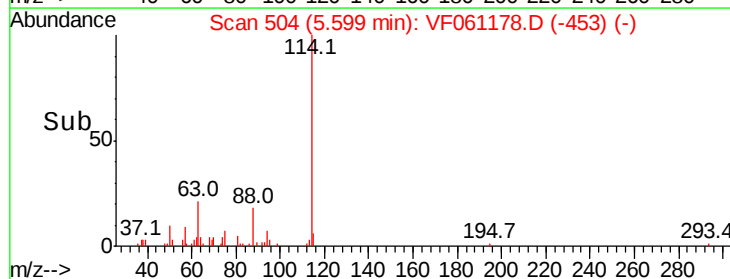
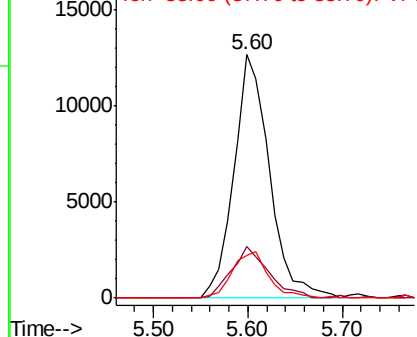
114 100

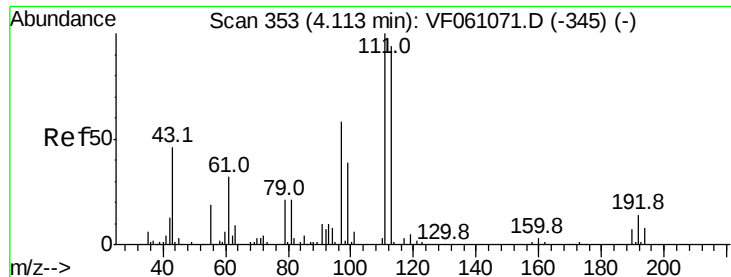
63 21.1 0.0 41.6

88 17.6 0.0 38.0



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

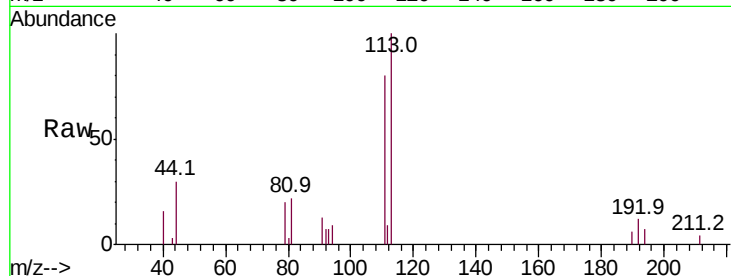




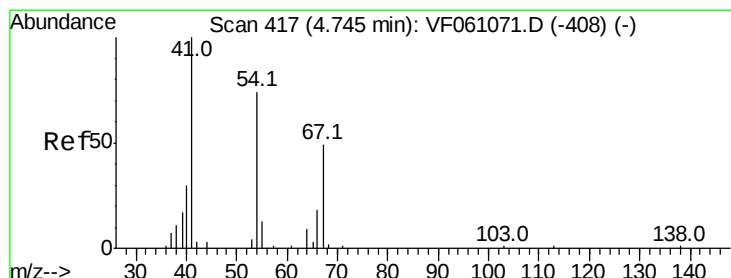
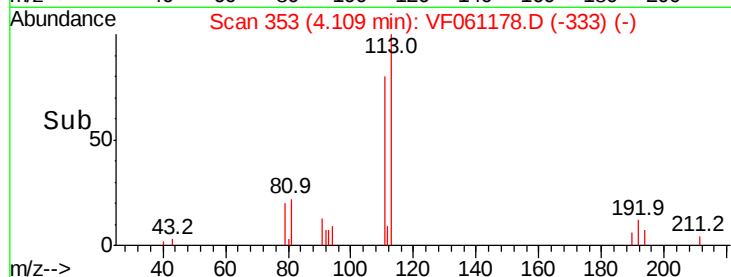
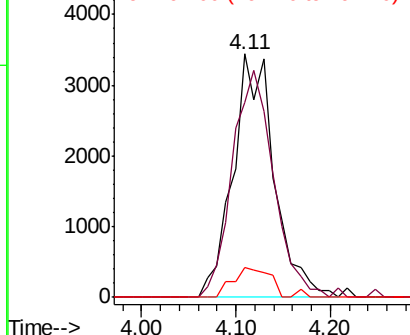
#35
Dibromofluoromethane
Concen: 39.447 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 10434
Ion Ratio Lower Upper
113 100
111 80.0 85.2 127.8#
192 12.3 12.8 19.2#

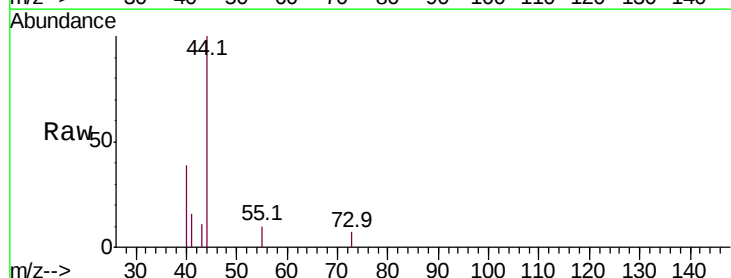


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

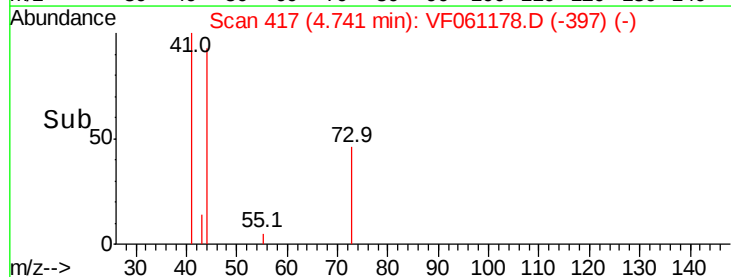
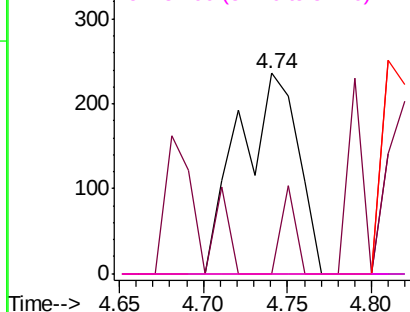


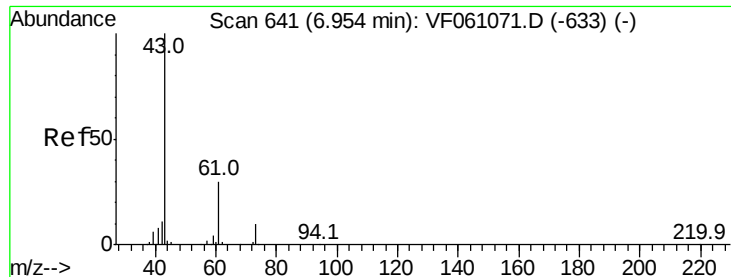
#41
Methacrylonitrile
Concen: 6.831 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.00 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion: 41 Resp: 575
Ion Ratio Lower Upper
41 100
39 0.0 45.7 68.5#
67 0.0 38.9 58.3#
52 0.0 35.2 52.8#



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





#43

Isopropyl Acetate

Concen: 1.689 ug/l

RT: 6.95 min Scan# 641

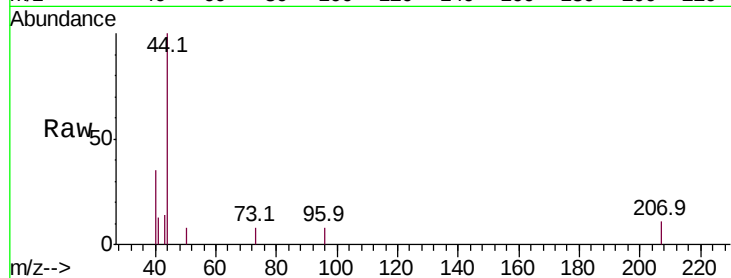
Delta R.T. -0.00 min

Lab File: VF061178.D

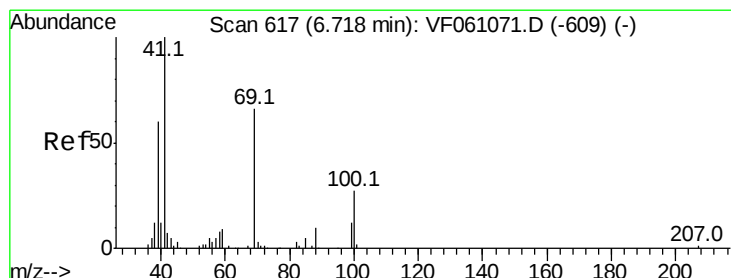
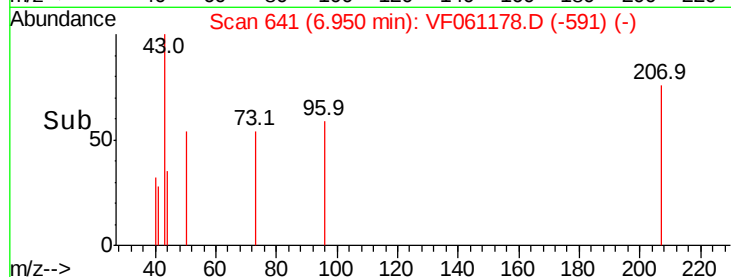
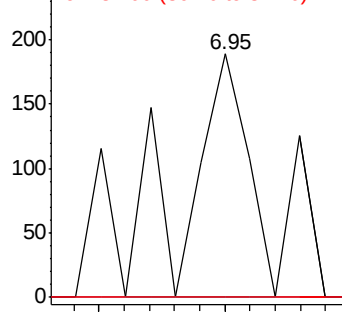
Acq: 24 Dec 2018 21:27

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	43	Resp:	325
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	0.0	0.0	0.0



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



#48

Methyl methacrylate

Concen: 1.883 ug/l

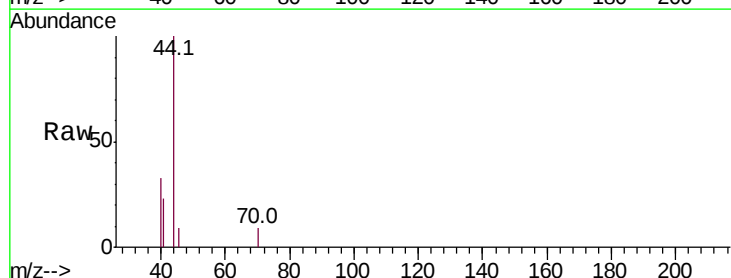
RT: 6.74 min Scan# 620

Delta R.T. 0.03 min

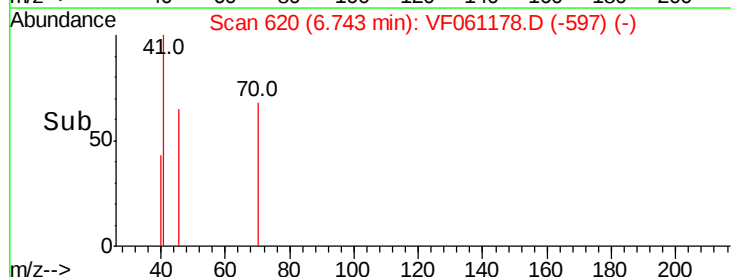
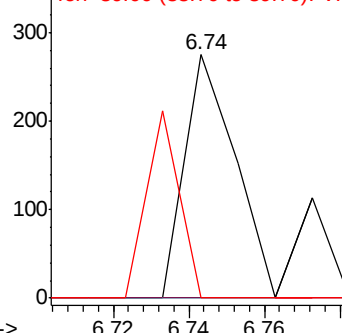
Lab File: VF061178.D

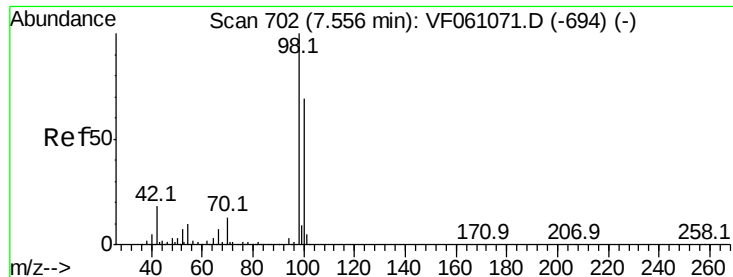
Acq: 24 Dec 2018 21:27

Tgt Ion:	41	Resp:	253
Ion	Ratio	Lower	Upper
41	100		
69	0.0	52.7	79.1#
39	0.0	47.8	71.6#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 40.079 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061178.D

Acq: 24 Dec 2018 21:27

Instrument :

MSVOA_F

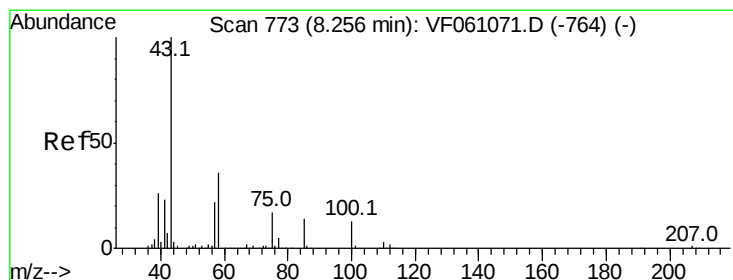
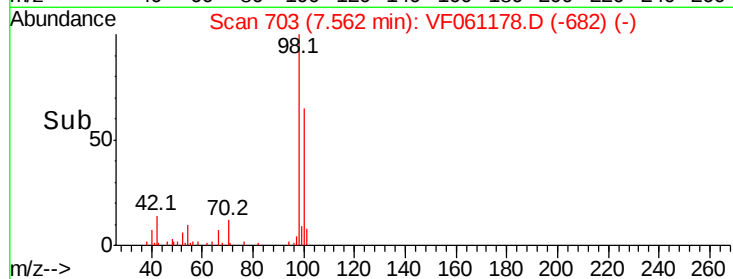
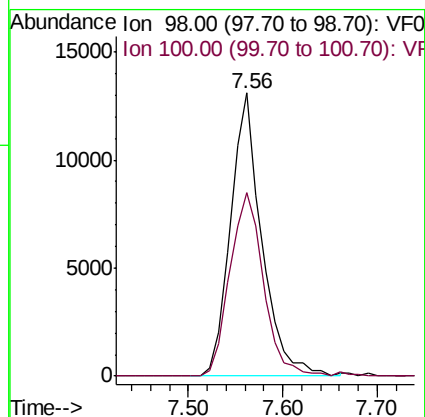
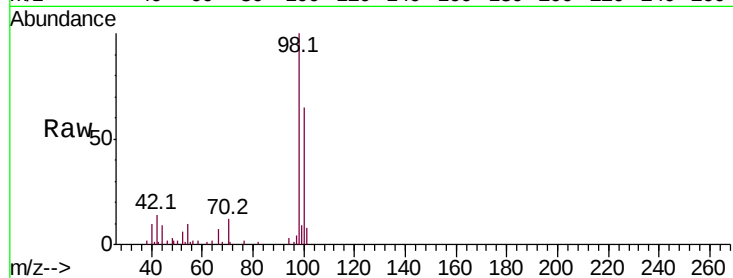
ClientSampleId :

Tot Ion: 98 Resp: 30043

Ion Ratio Lower Upper

98 100

100 64.8 55.3 82.9



#51

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061178.D

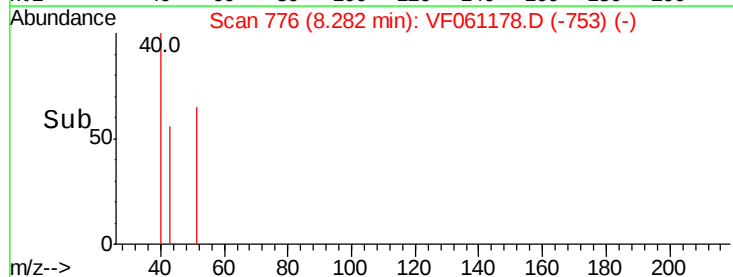
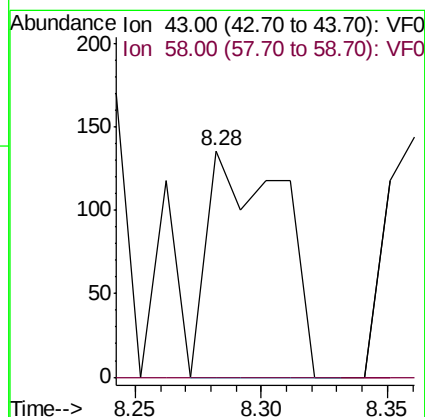
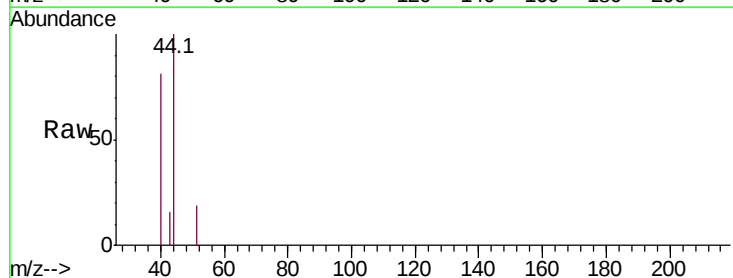
Acq: 24 Dec 2018 21:27

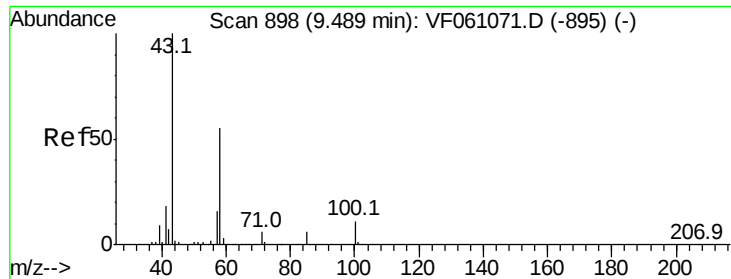
Tgt Ion: 43 Resp: 279

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

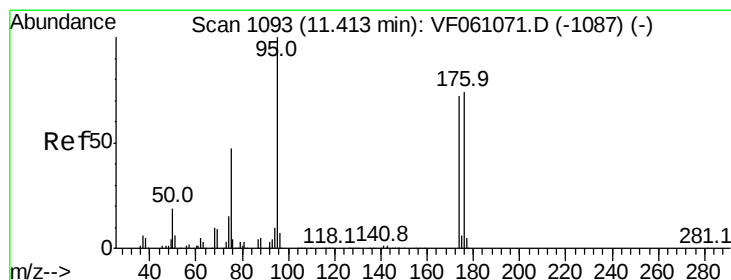
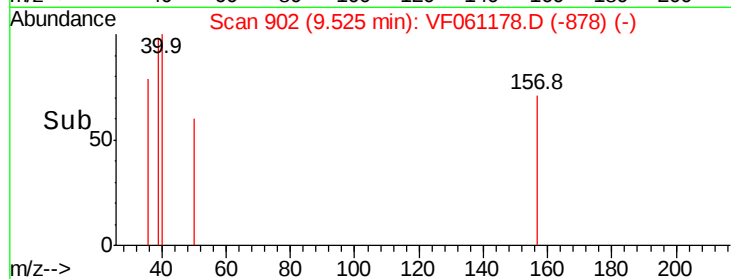
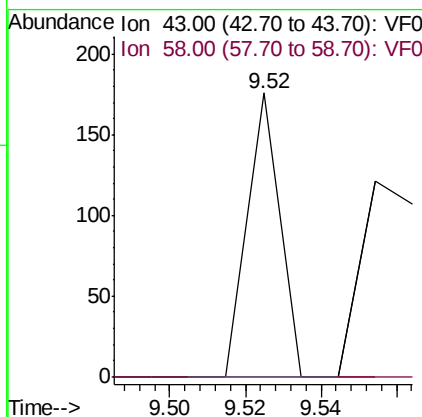
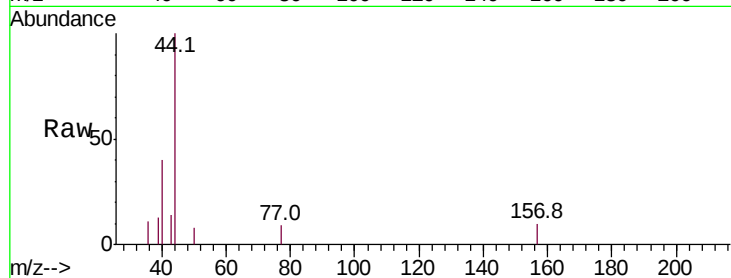




#59
2-Hexanone
Concen: 1.090 ug/l
RT: 9.52 min Scan# 902
Delta R.T. 0.04 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

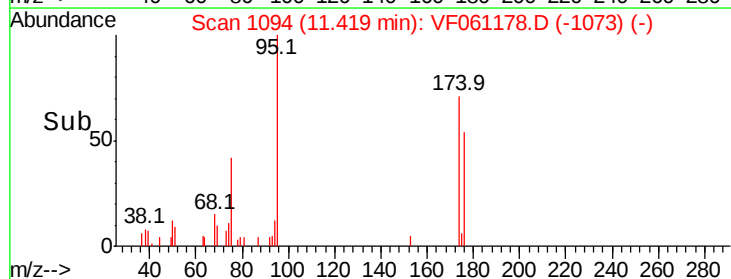
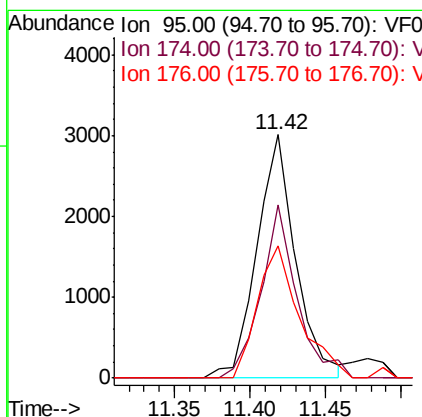
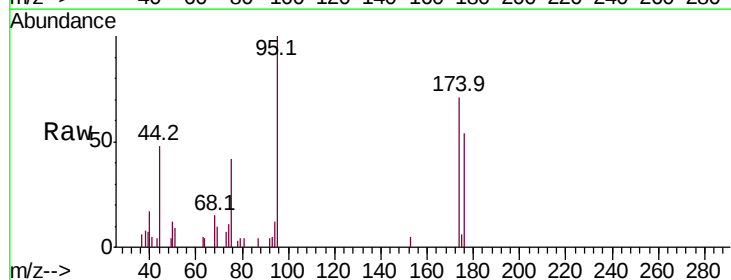
Instrument :
MSVOA_F
ClientSampleId :

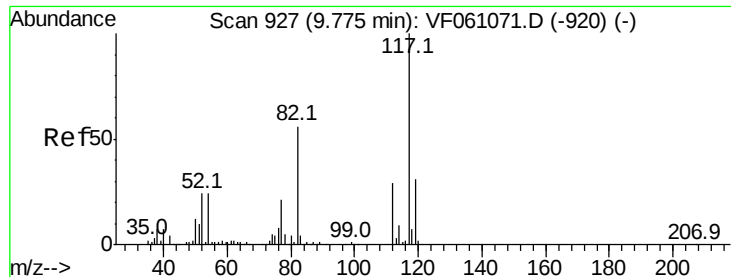
Tot Ion: 43 Resp: 104
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 15.658 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion: 95 Resp: 5411
Ion Ratio Lower Upper
95 100
174 71.0 0.0 143.8
176 54.5 0.0 147.6

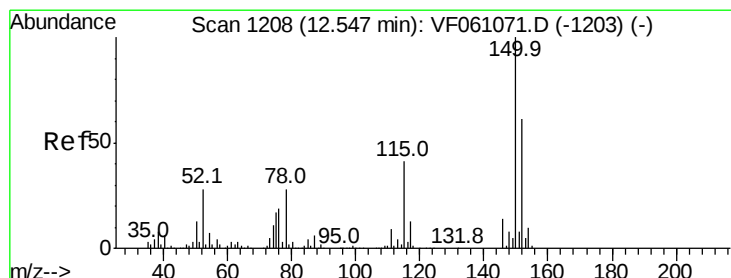
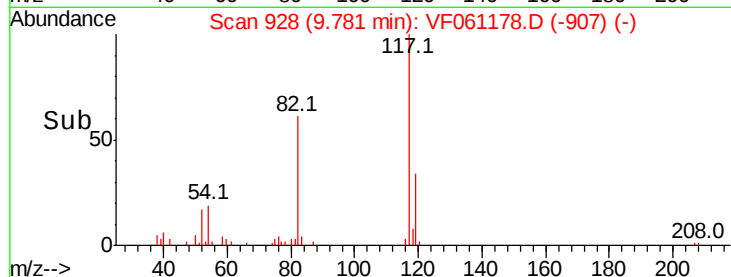
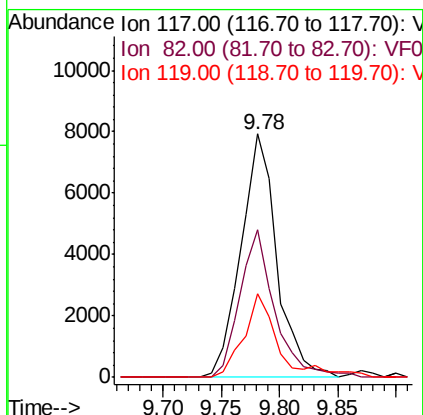
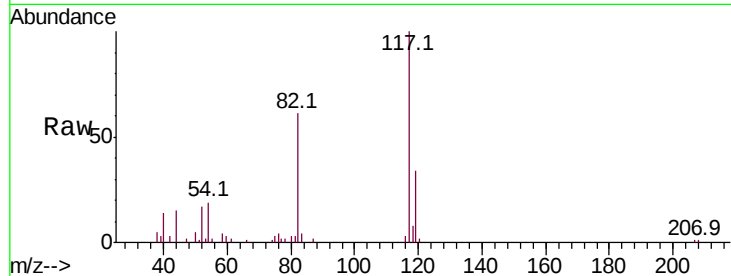




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

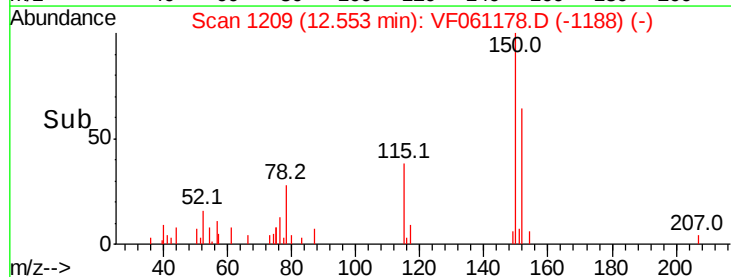
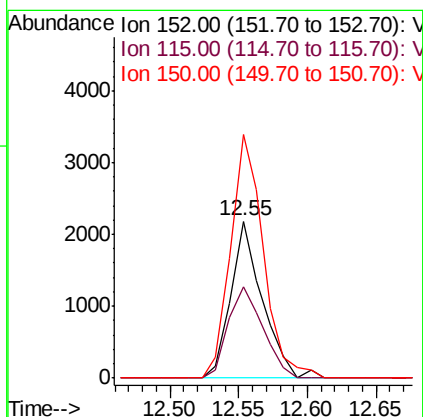
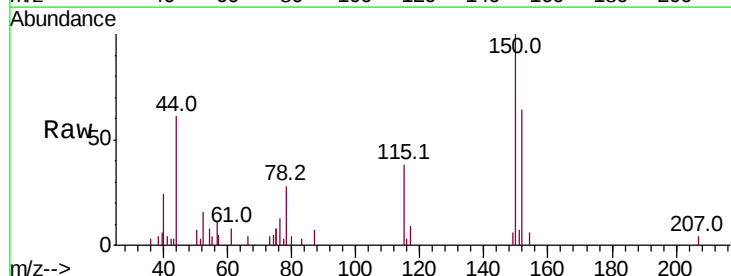
Instrument :
MSVOA_F
ClientSampled :

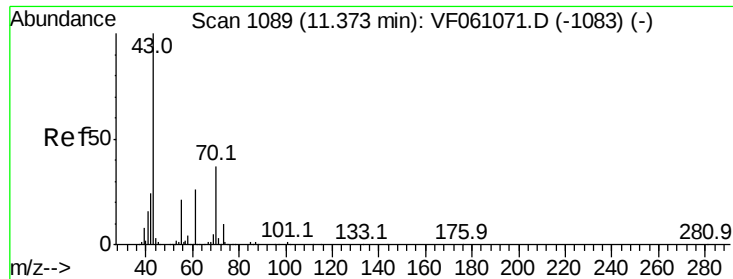
Tot Ion:117 Resp: 16981
Ion Ratio Lower Upper
117 100
82 60.9 45.0 67.4
119 34.1 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061178.D
Acq: 24 Dec 2018 21:27

Tgt Ion:152 Resp: 3481
Ion Ratio Lower Upper
152 100
115 58.5 33.3 99.9
150 155.4 0.0 328.2





#74
 N-amvl acetate
 Concen: 2.102 ug/l
 RT: 11.36 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: VF061178.D
 Acq: 24 Dec 2018 21:27

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 140
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.2 43.8#
 55 0.0 16.5 24.7#
 61 0.0 20.7 31.1#

