

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059878.D
 Acq On : 4 Aug 2018 11:38
 Operator : VA/AP
 Sample : J4333-05
 Misc : 5.77a/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 06 02:18:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	150611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	220455	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	170436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	61854	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	144550	53.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.48%	
35) Dibromofluoromethane	4.30	113	117045	53.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.72%	
50) Toluene-d8	7.72	98	167378	35.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	71.72%	
62) 4-Bromofluorobenzene	11.51	95	66167	25.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	50.46%	

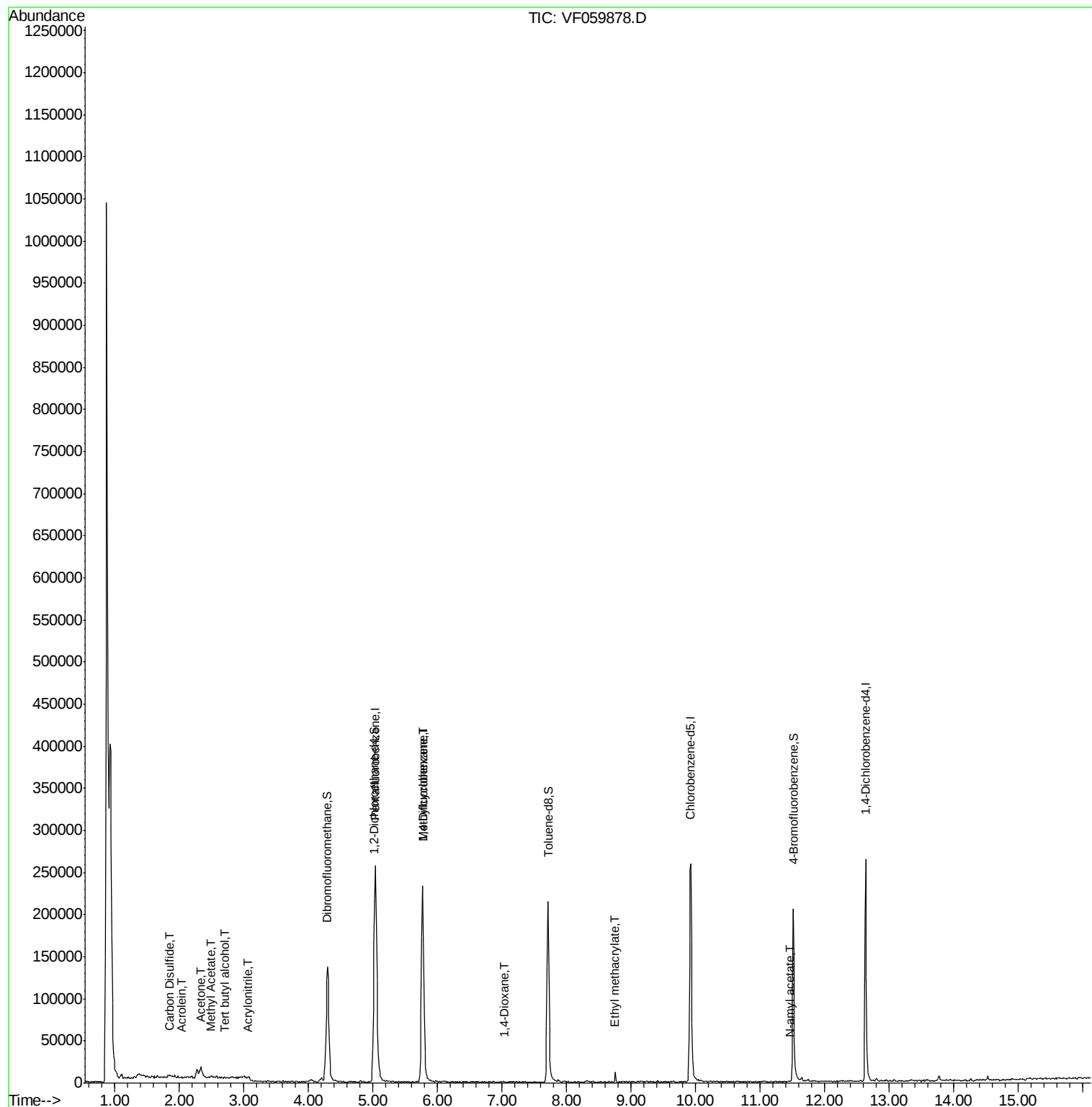
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.71	59	222	2.027	ug/l #	74
13) Acrolein	2.04	56	324	4.936	ug/l	89
15) Acrylonitrile	3.06	53	329	1.639	ug/l #	7
16) Acetone	2.33	43	9563	19.078	ug/l	97
17) Carbon Disulfide	1.85	76	5764	1.605	ug/l #	75
18) Methyl Acetate	2.48	43	2751	3.253	ug/l #	56
20) Methylene Chloride	2.28	84	3953	Below Cal		88
39) Methylcyclohexane	5.76	83	5644	2.951	ug/l #	39
40) Benzene	4.82	78	793	Below Cal	#	49
49) 1,4-Dioxane	7.04	88	83	92.542	ug/l #	16
56) Ethyl methacrylate	8.74	69	164	3.477	ug/l #	7
74) N-amyl acetate	11.46	43	804	3.752	ug/l #	48

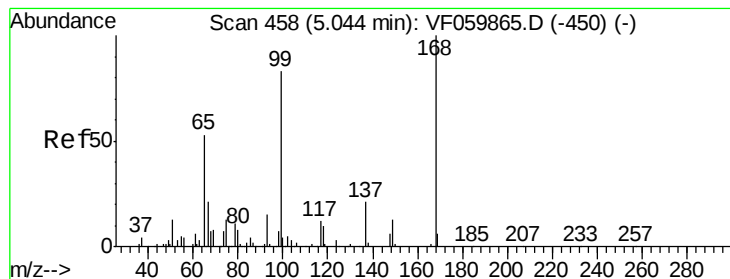
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF080418\
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MSVOA_F
ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 04 07:08:36 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

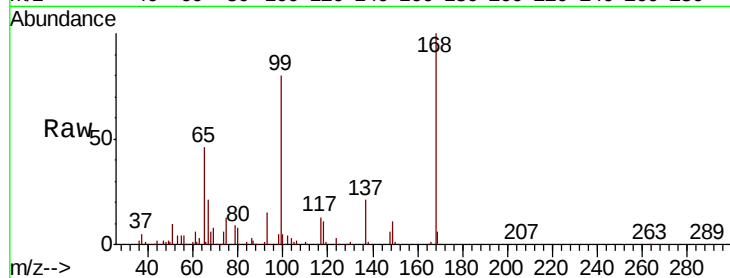
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 150611

Ion Ratio Lower Upper

168 100

99 80.0 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

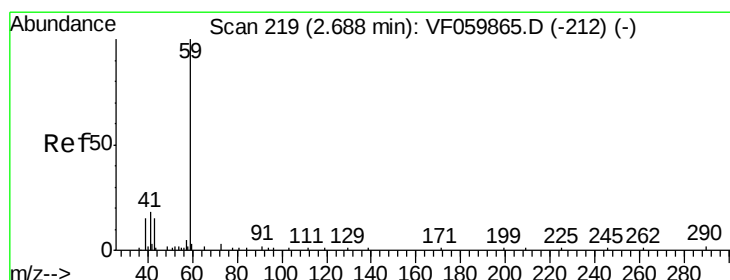
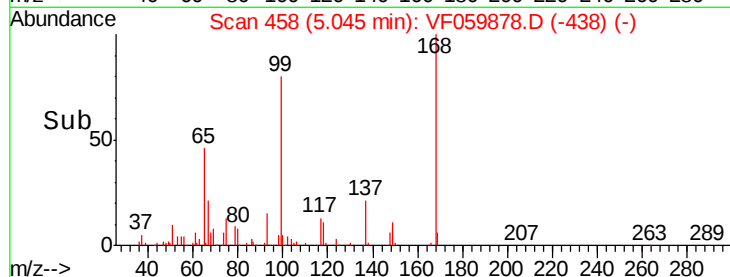
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 2.027 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.02 min

Lab File: VF059878.D

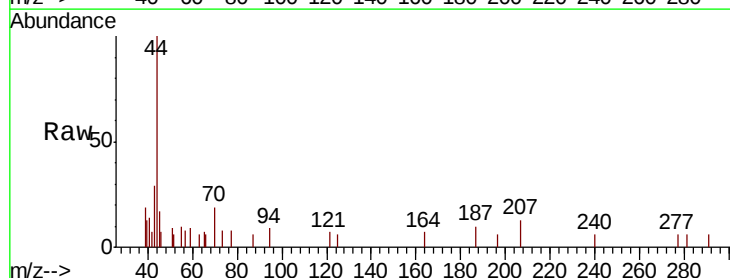
Acq: 4 Aug 2018 11:38

Tgt Ion: 59 Resp: 222

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.71

200

150

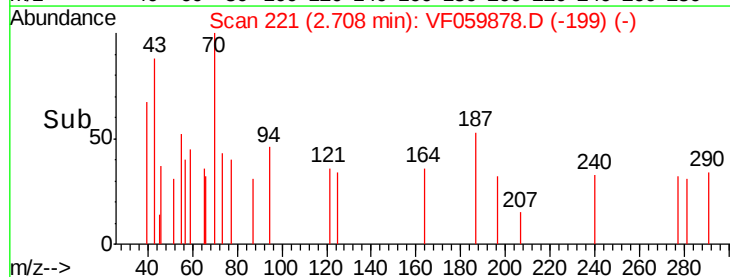
100

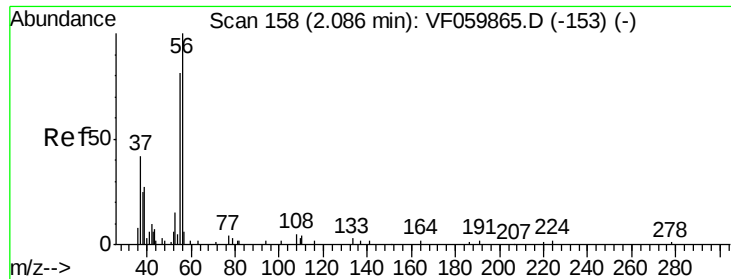
50

0

Time-->

2.66 2.68 2.70 2.72 2.74





#13

Acrolein

Concen: 4.936 ug/l

RT: 2.04 min Scan# 153

Delta R.T. -0.05 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

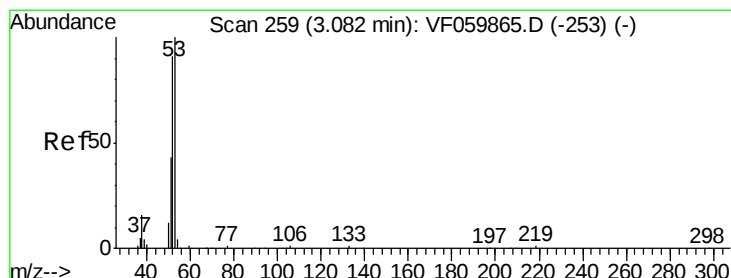
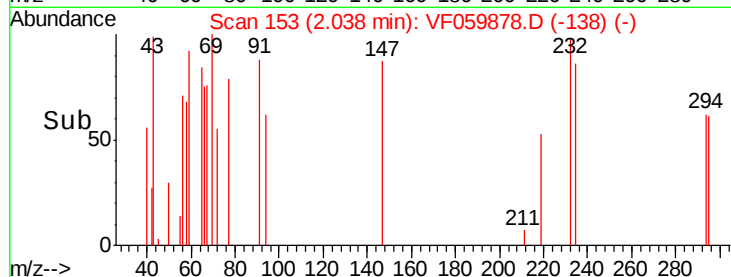
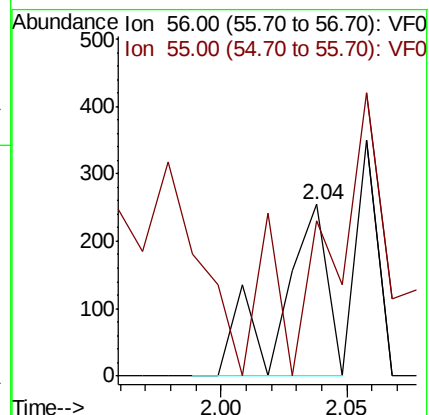
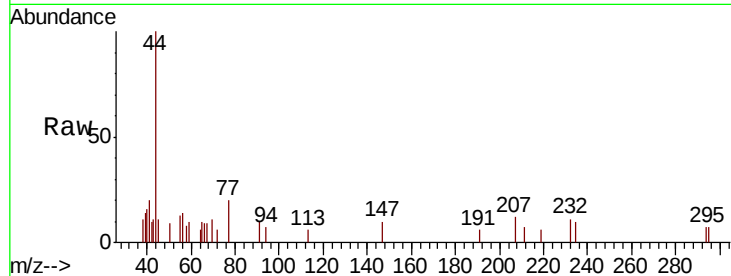
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 90.2 64.6 96.8



#15

Acrylonitrile

Concen: 1.639 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

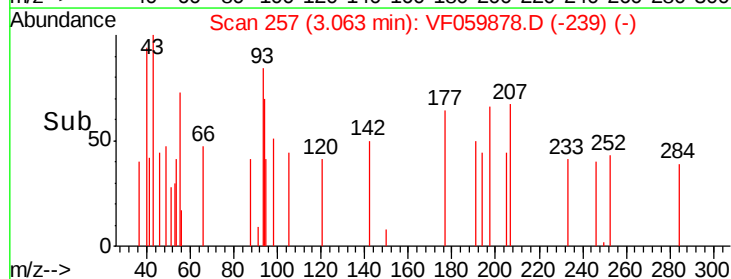
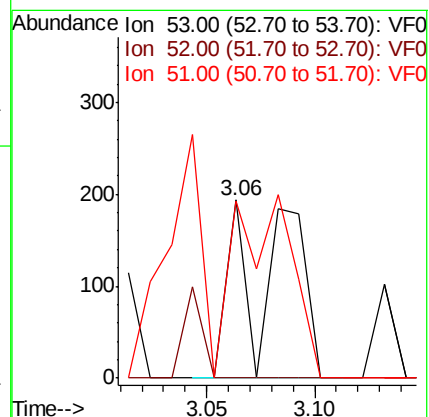
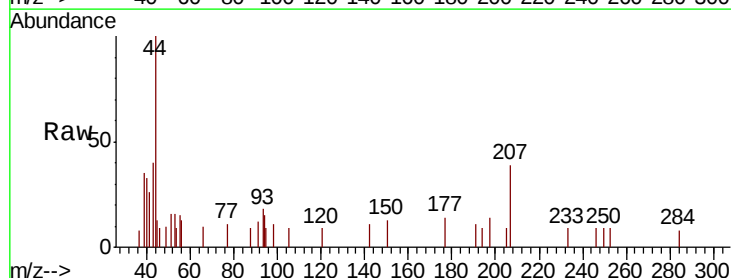
Tgt Ion: 53 Resp: 329

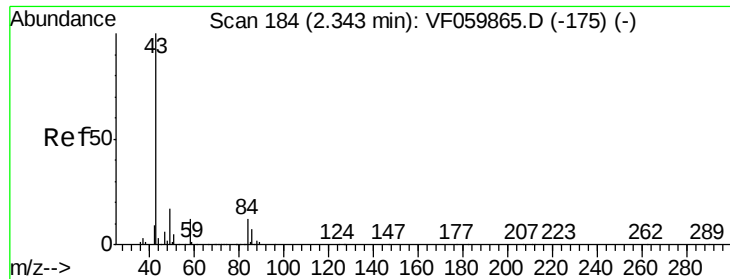
Ion Ratio Lower Upper

53 100

52 0.0 72.9 109.3#

51 99.5 34.5 51.7#





#16

Acetone

Concen: 19.078 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

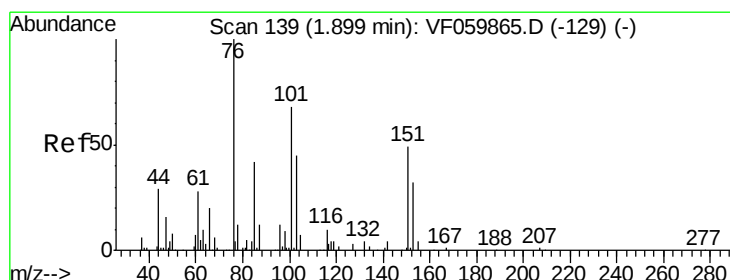
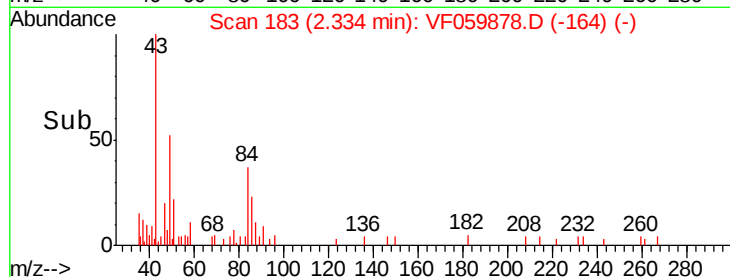
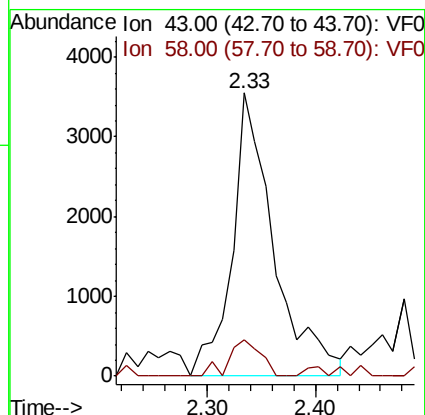
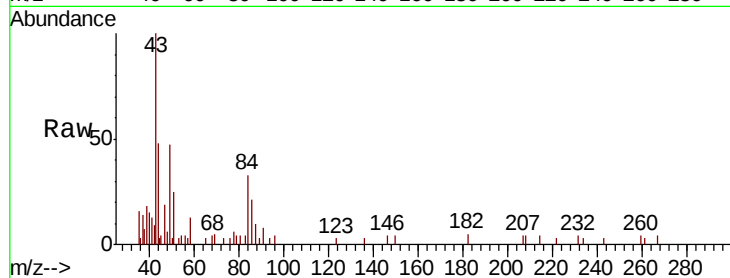
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 9563

Ion Ratio Lower Upper

43 100

58 12.8 9.4 14.0



#17

Carbon Disulfide

Concen: 1.605 ug/l

RT: 1.85 min Scan# 134

Delta R.T. -0.05 min

Lab File: VF059878.D

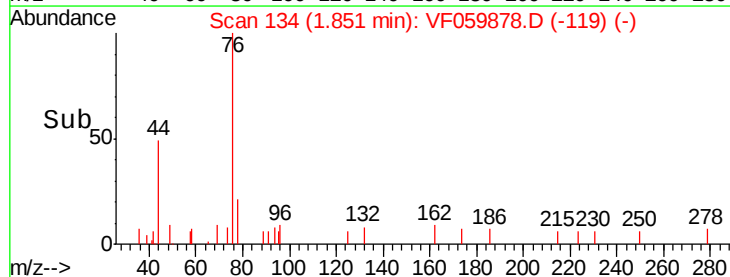
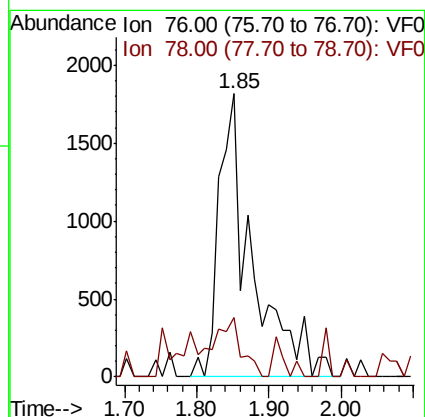
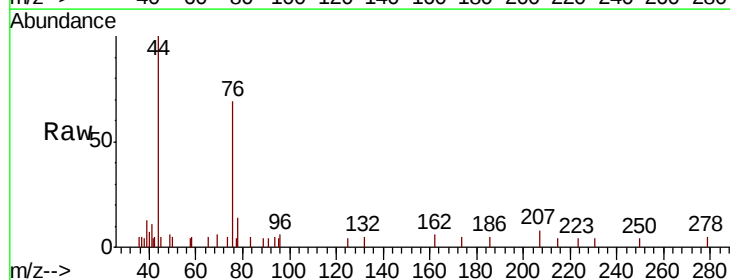
Acq: 4 Aug 2018 11:38

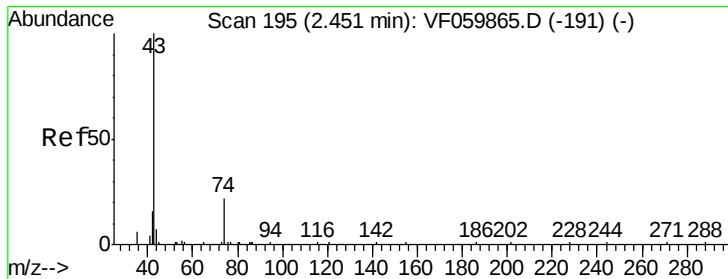
Tgt Ion: 76 Resp: 5764

Ion Ratio Lower Upper

76 100

78 21.0 9.3 13.9#

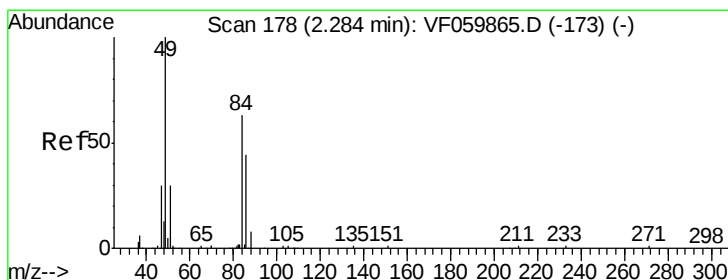
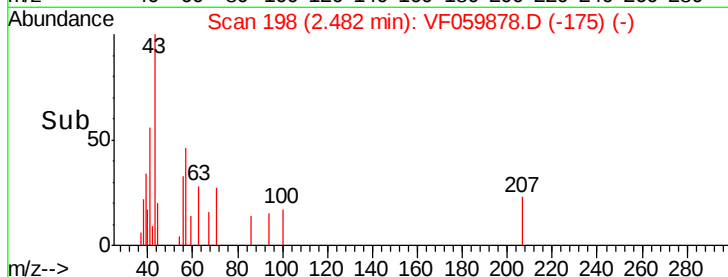
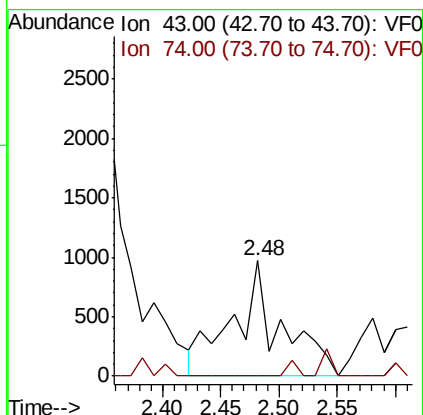
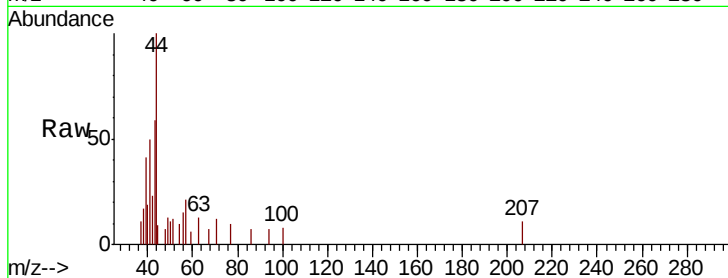




#18
Methyl Acetate
Concen: 3.253 ug/l
RT: 2.48 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF059878.D
Acq: 4 Aug 2018 11:38

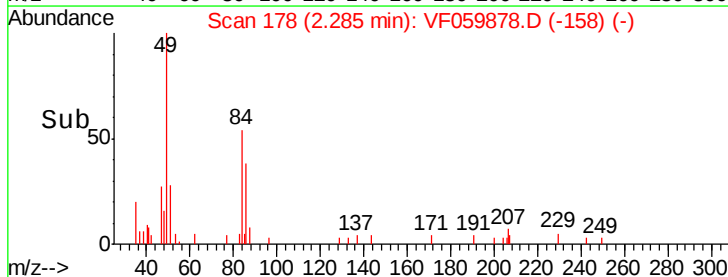
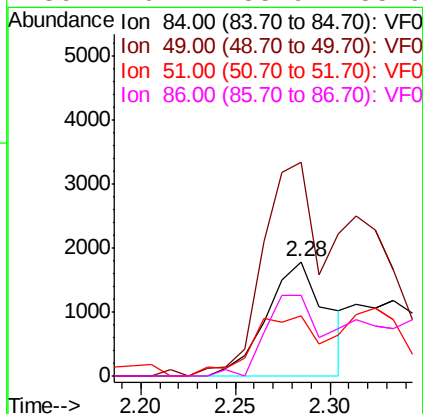
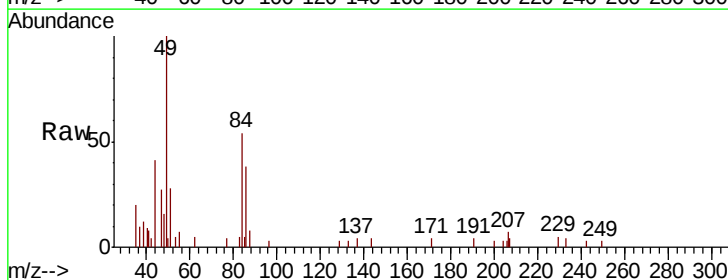
Instrument :
MSVOA_F
ClientSampled :

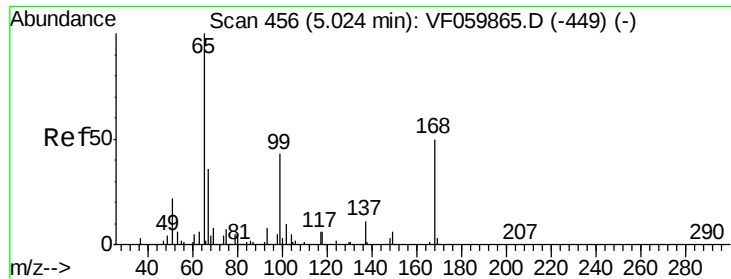
Tot Ion: 43 Resp: 2751
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059878.D
Acq: 4 Aug 2018 11:38

Tgt Ion: 84 Resp: 3953
Ion Ratio Lower Upper
84 100
49 186.4 128.7 193.1
51 52.6 39.3 58.9
86 70.7 55.9 83.9

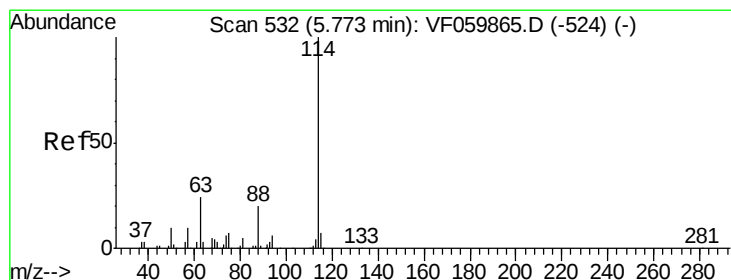
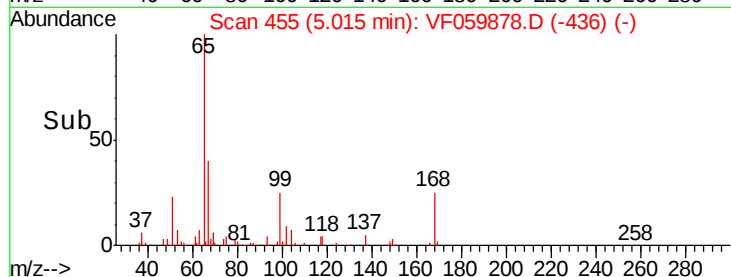
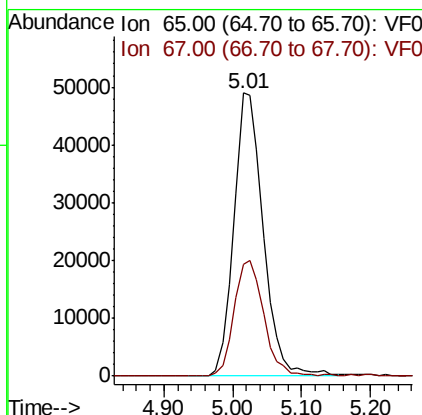
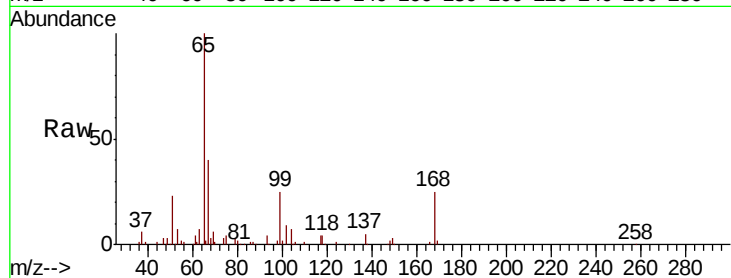




#33
 1,2-Dichloroethane-d4
 Concen: 53.236 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: VF059878.D
 Acq: 4 Aug 2018 11:38

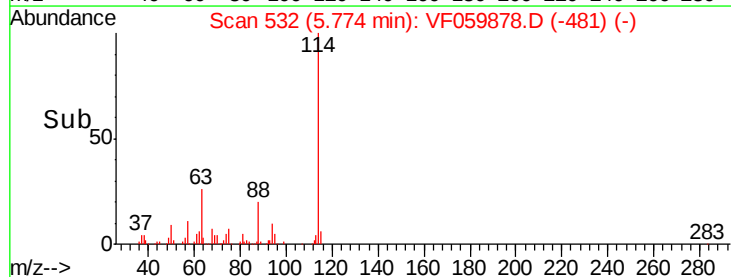
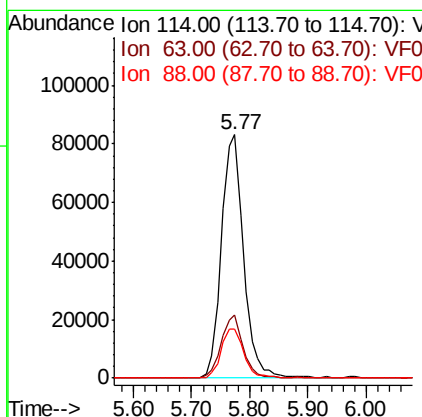
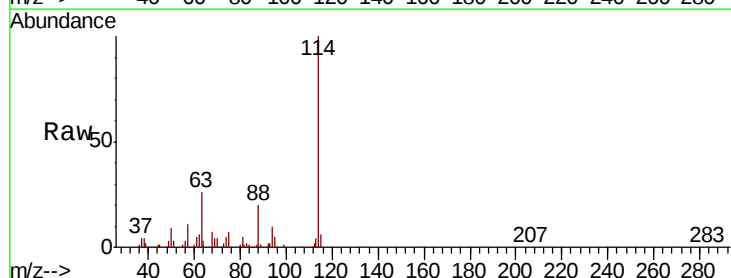
Instrument :
 MSVOA_F
 ClientSampleId :

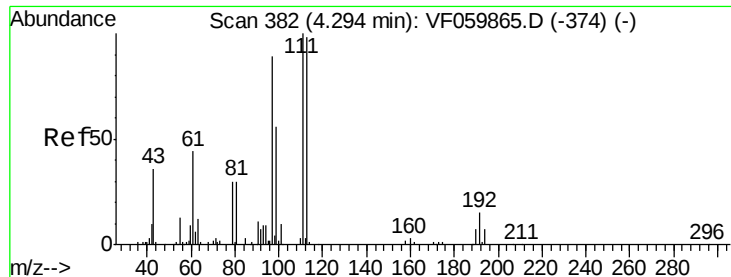
Tot Ion: 65 Resp: 144550
 Ion Ratio Lower Upper
 65 100
 67 39.5 0.0 77.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VF059878.D
 Acq: 4 Aug 2018 11:38

Tgt Ion:114 Resp: 220455
 Ion Ratio Lower Upper
 114 100
 63 26.0 0.0 48.0
 88 20.2 0.0 39.4

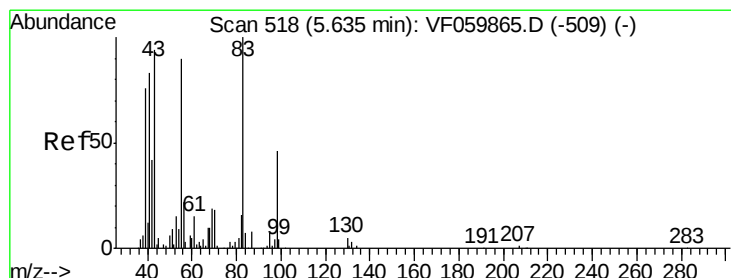
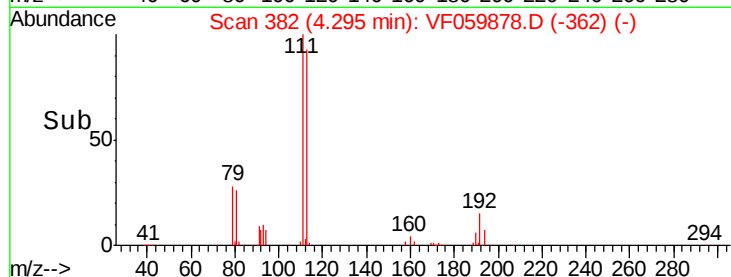
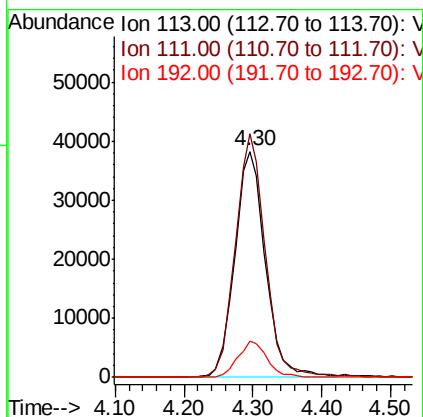
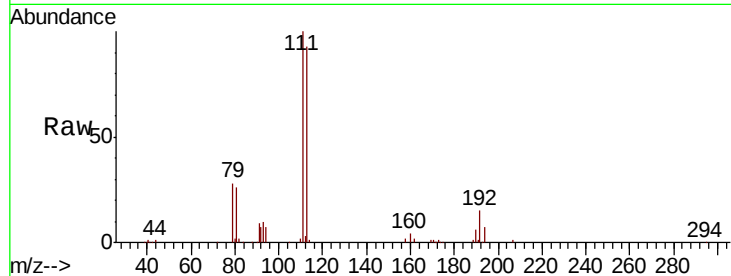




#35
Dibromofluoromethane
Concen: 53.362 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF059878.D
Acq: 4 Aug 2018 11:38

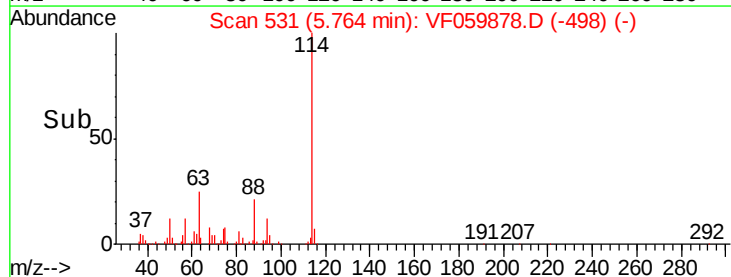
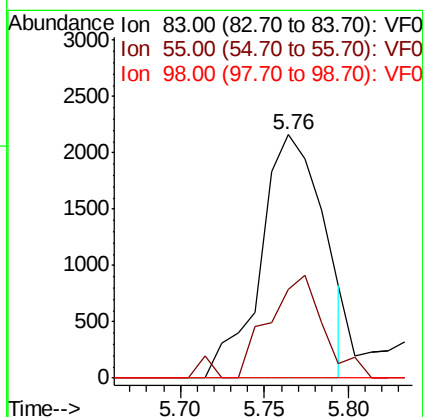
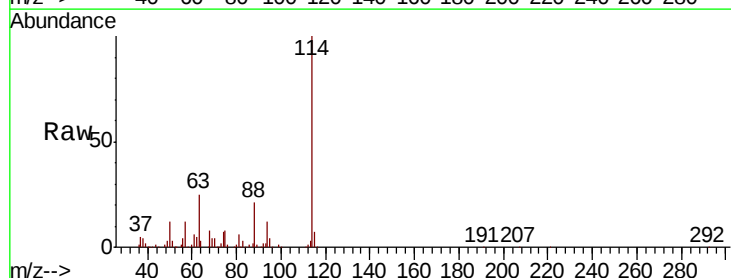
Instrument :
MSVOA_F
ClientSampled :

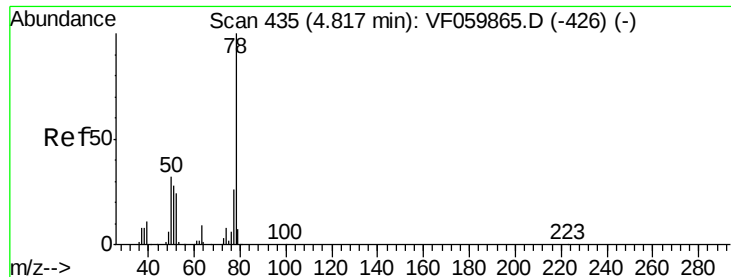
Tot Ion:113 Resp: 117045
Ion Ratio Lower Upper
113 100
111 107.8 81.8 122.8
192 16.3 12.4 18.6



#39
Methylcyclohexane
Concen: 2.951 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.13 min
Lab File: VF059878.D
Acq: 4 Aug 2018 11:38

Tgt Ion: 83 Resp: 5644
Ion Ratio Lower Upper
83 100
55 36.3 72.0 108.0#
98 0.0 36.6 54.8#





#40

Benzene

Concen: Below Cal

RT: 4.82 min Scan# 435

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_F

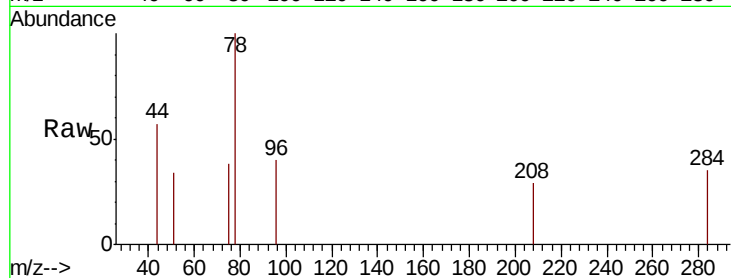
ClientSampled :

Tot Ion: 78 Resp: 793

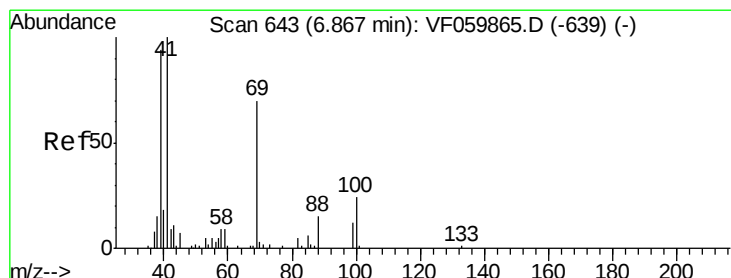
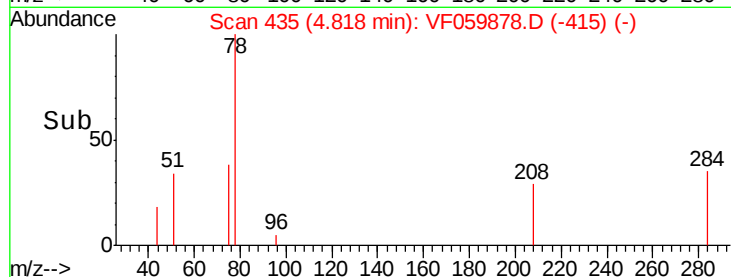
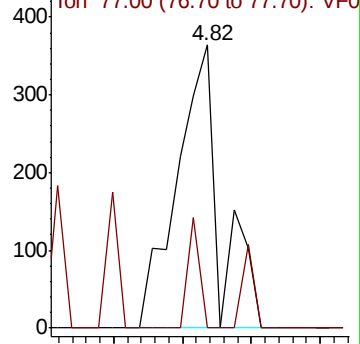
Ion Ratio Lower Upper

78 100

77 0.0 20.7 31.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0



#49

1,4-Dioxane

Concen: 92.542 ug/l

RT: 7.04 min Scan# 660

Delta R.T. 0.17 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

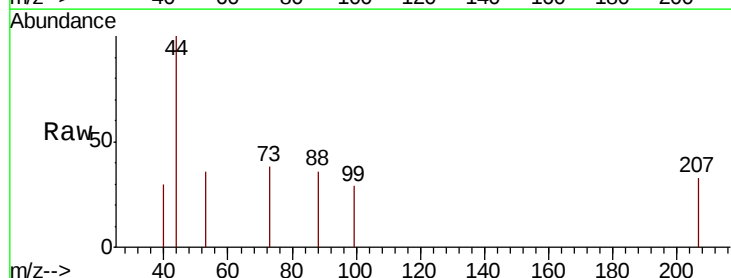
Tgt Ion: 88 Resp: 83

Ion Ratio Lower Upper

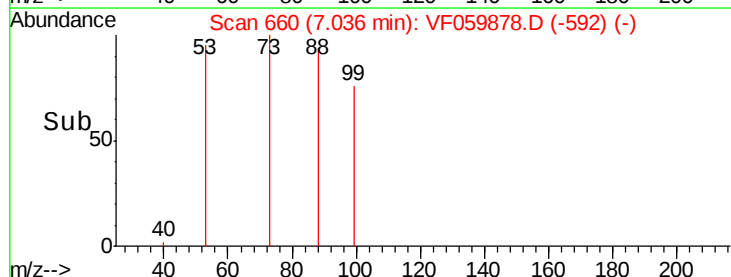
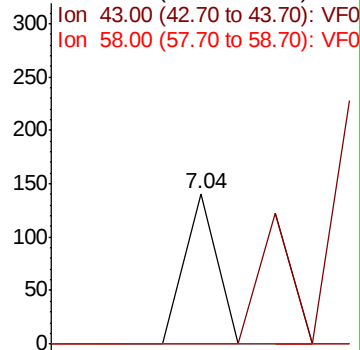
88 100

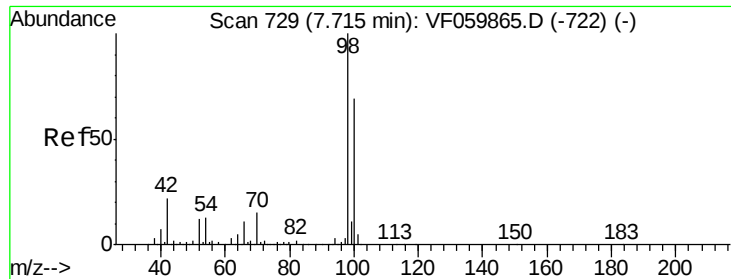
43 0.0 58.3 87.5#

58 0.0 49.4 74.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0





#50

Toluene-d8

Concen: 35.864 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_F

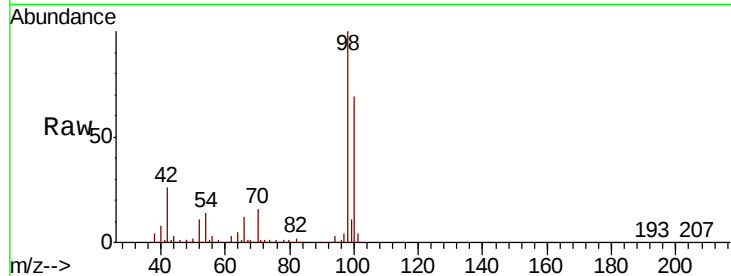
ClientSampleId :

Tot Ion: 98 Resp: 167378

Ion Ratio Lower Upper

98 100

100 69.0 55.0 82.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

60000

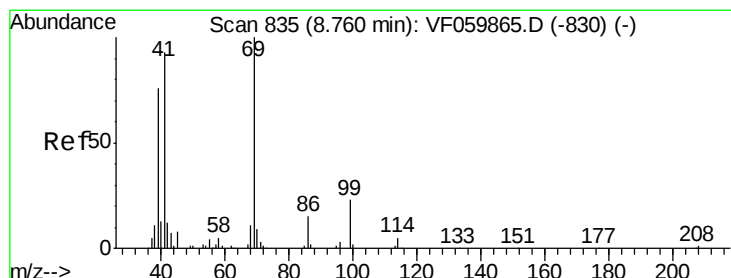
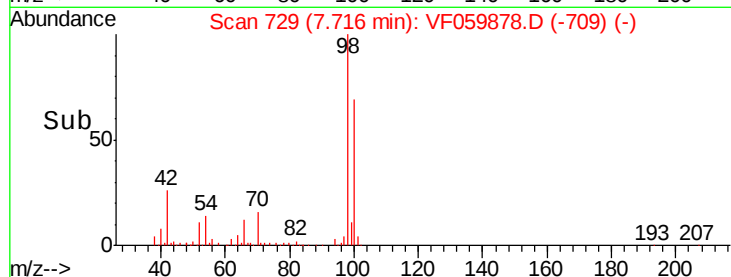
40000

20000

0

Time-->

7.60 7.70 7.80



#56

Ethyl methacrylate

Concen: 3.477 ug/l

RT: 8.74 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

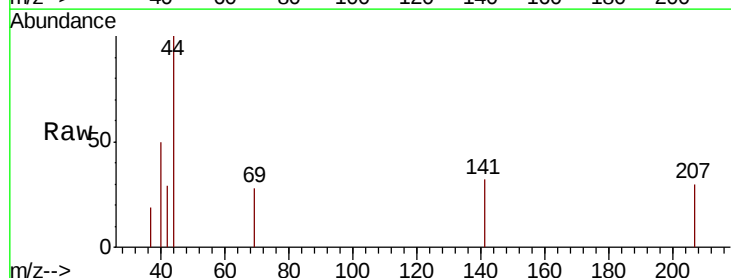
Tgt Ion: 69 Resp: 164

Ion Ratio Lower Upper

69 100

41 0.0 74.7 112.1#

39 0.0 61.1 91.7#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

400

300

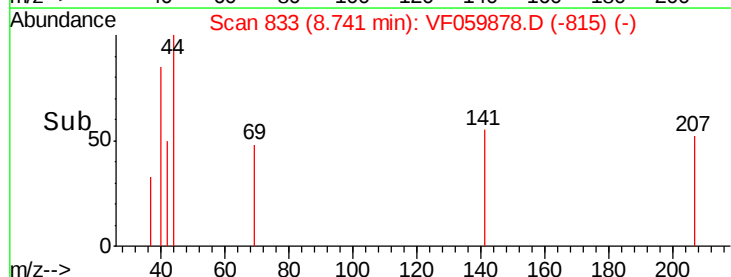
200

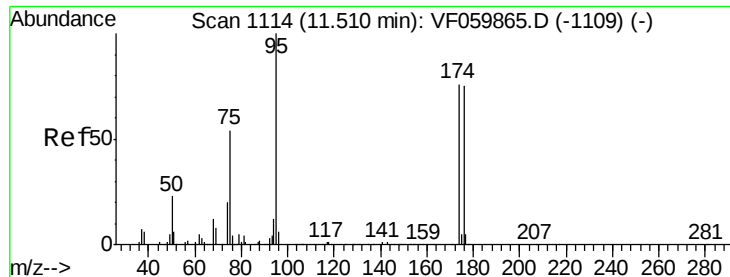
100

0

Time-->

8.70 8.72 8.74 8.76 8.78





#62

4-Bromofluorobenzene

Concen: 25.230 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_F

ClientSampled :

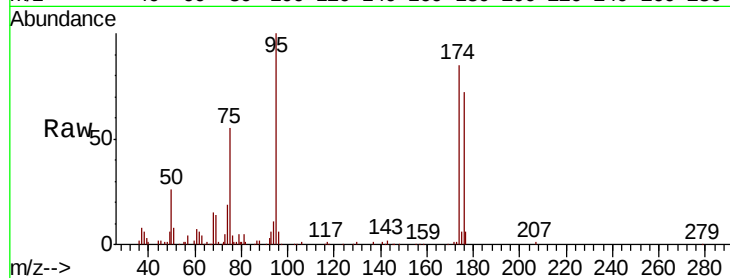
Tot Ion: 95 Resp: 66167

Ion Ratio Lower Upper

95 100

174 85.0 0.0 151.6

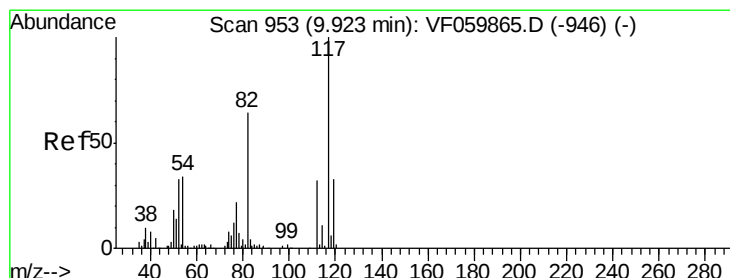
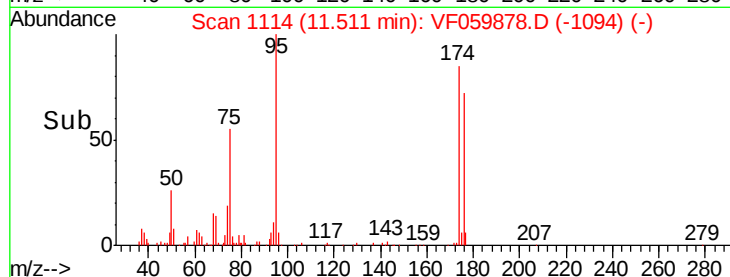
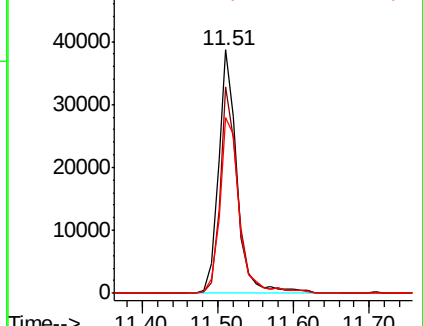
176 72.2 0.0 149.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

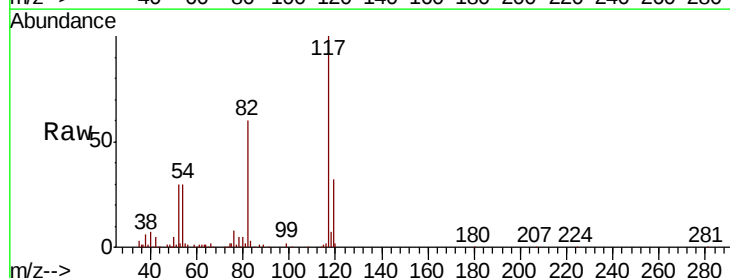
Tgt Ion: 117 Resp: 170436

Ion Ratio Lower Upper

117 100

82 60.2 51.3 76.9

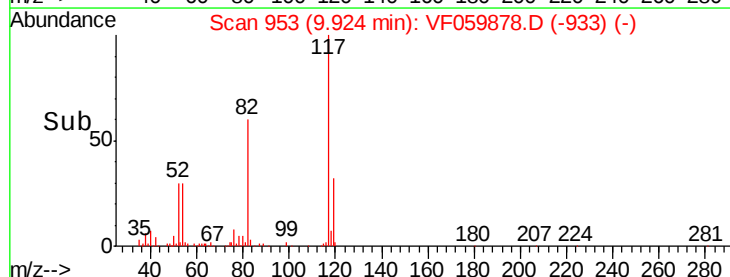
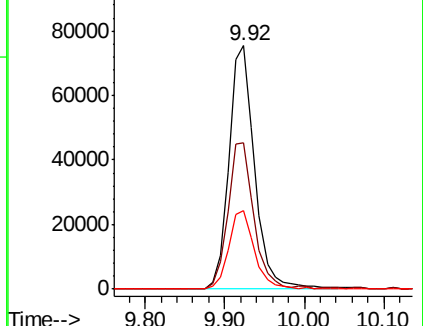
119 32.2 26.4 39.6

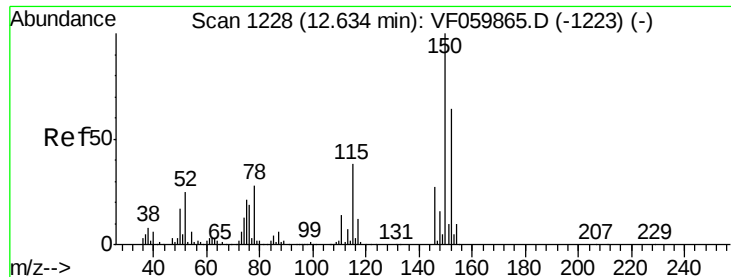


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_F

ClientSampled :

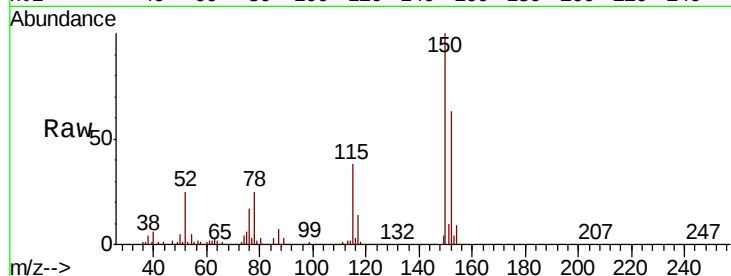
Tot Ion:152 Resp: 61854

Ion Ratio Lower Upper

152 100

115 60.6 29.8 89.4

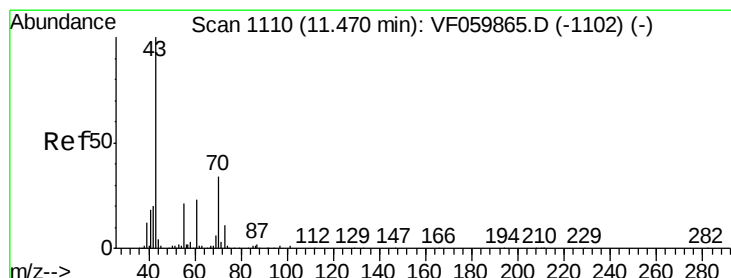
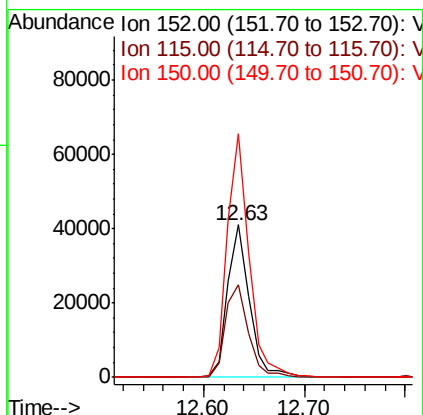
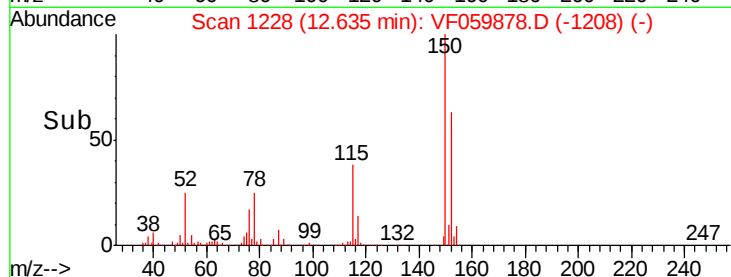
150 159.9 0.0 315.6



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-ethyl acetate

Concen: 3.752 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VF059878.D

Acq: 4 Aug 2018 11:38

Tgt Ion: 43 Resp: 804

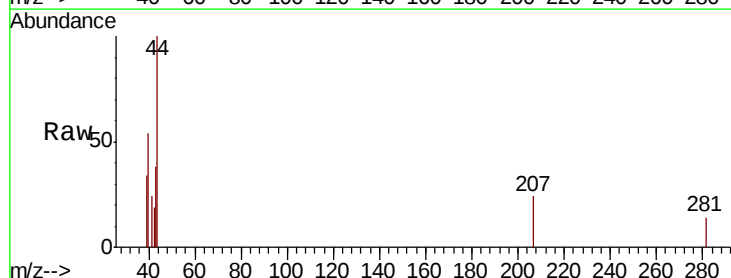
Ion Ratio Lower Upper

43 100

70 0.0 27.5 41.3#

55 0.0 16.6 25.0#

61 0.0 18.2 27.4#



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

