

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059457.D
 Acq On : 6 Jul 2018 18:45
 Operator : VA/AP
 Sample : J3854-03
 Misc : 2.80µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S5

Quant Time: Jul 07 01:51:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.03
34) 1,4-Difluorobenzene	6.02	114	66	50.00	ug/l	0.26
63) Chlorobenzene-d5	10.25	117	63	50.00	ug/l	0.35
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	101	0.00	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.97	95	63	93.54	ug/l	0.47
Spiked Amount	50.000		Recovery	=	187.08%	

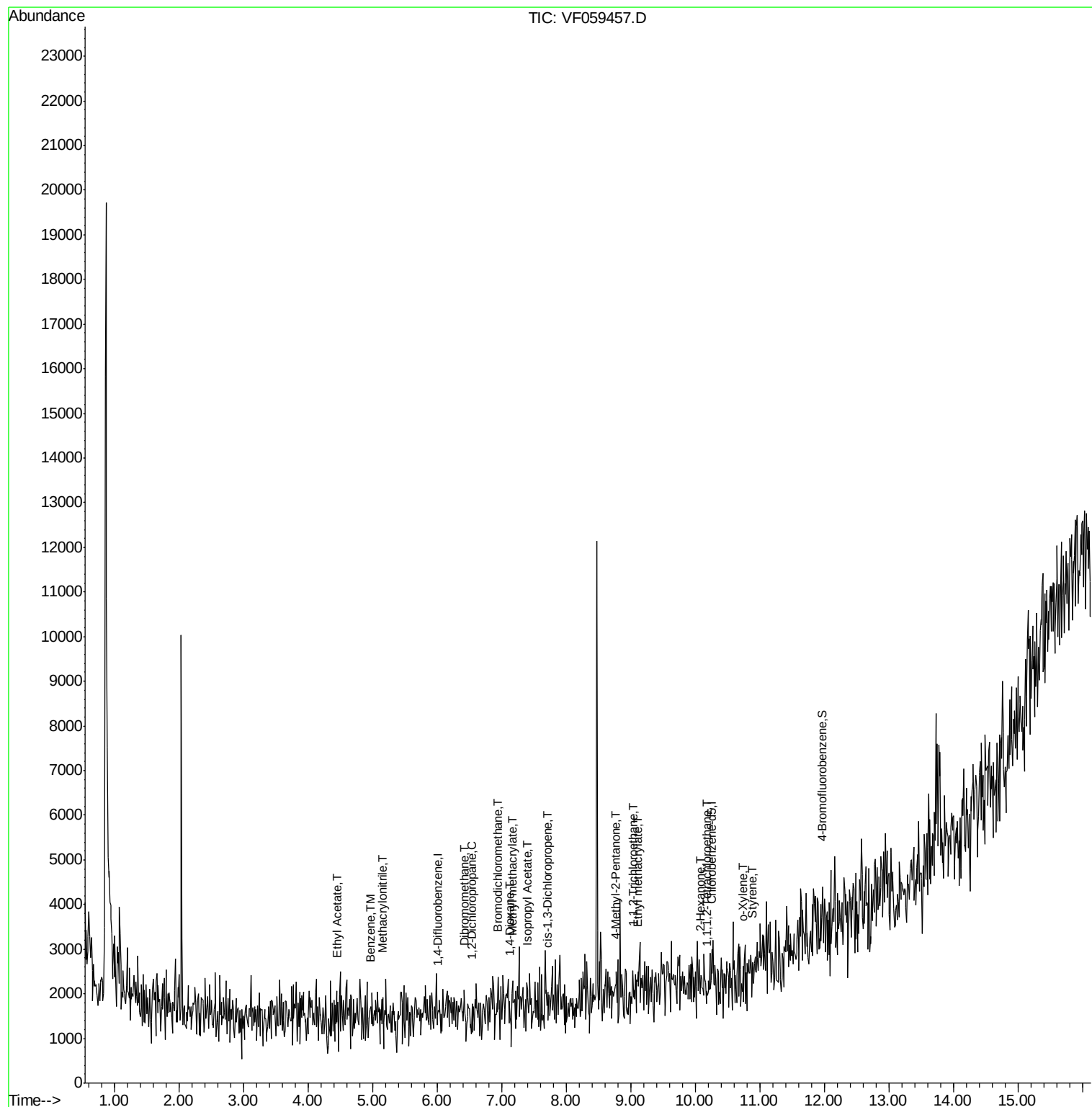
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	4.46	43	82	227.586	ug/l #	7
40) Benzene	4.96	78	60	46.935	ug/l #	1
41) Methacrylonitrile	5.15	41	238	1210.129	ug/l #	42
43) Isopropyl Acetate	7.41	43	83	172.827	ug/l #	52
45) 1,2-Dichloropropane	6.54	63	76	208.083	ug/l #	43
46) Dibromomethane	6.41	93	64	201.887	ug/l #	4
47) Bromodichloromethane	6.94	83	85	110.767	ug/l #	26
48) Methyl methacrylate	7.18	41	542	1683.897	ug/l #	11
49) 1,4-Dioxane	7.13	88	72	43742.909	ug/l #	20
51) 4-Methyl-2-Pentanone	8.76	43	247	694.224	ug/l #	39
54) cis-1,3-Dichloropropene	7.71	75	101	132.933	ug/l #	63
55) 1,1,2-Trichloroethane	9.02	97	59	158.856	ug/l #	13
56) Ethyl methacrylate	9.10	69	60	130.411	ug/l #	1
59) 2-Hexanone	10.08	43	102	391.144	ug/l #	30
66) 1,1,1,2-Tetrachloroethane	10.18	131	59	116.854	ug/l #	10
69) o-Xylene	10.74	106	73	92.590	ug/l #	1
70) Styrene	10.88	104	61	50.791	ug/l #	29

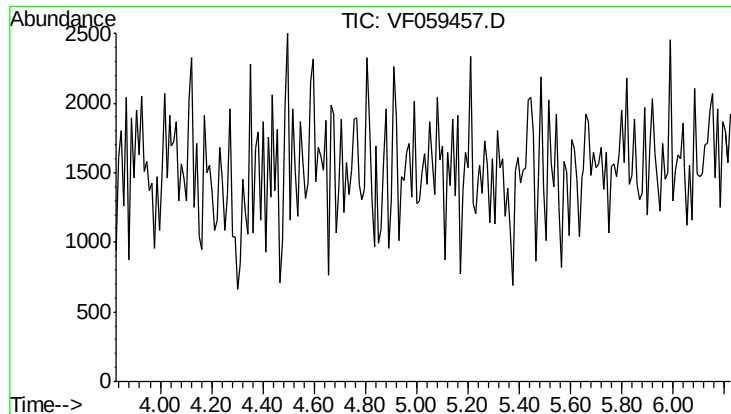
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.03 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Tot Ion: 168

Sig Exp Ratio

168 100

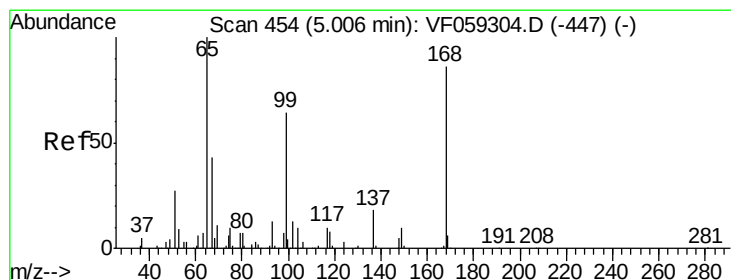
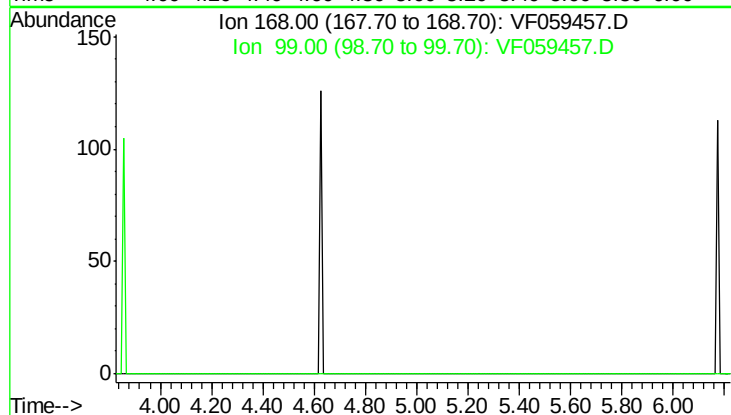
99 68.6

Instrument :

MSVOA_F

ClientSampleId :

S5



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059457.D

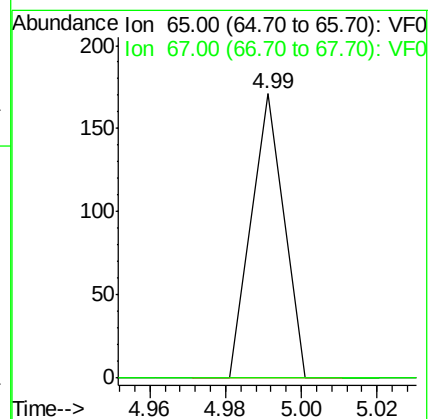
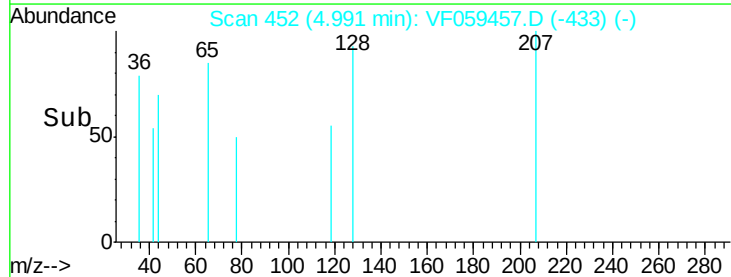
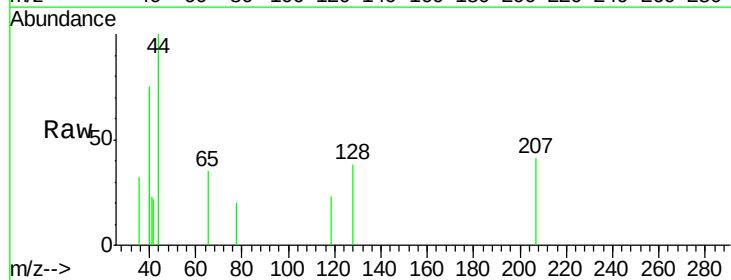
Acq: 6 Jul 2018 18:45

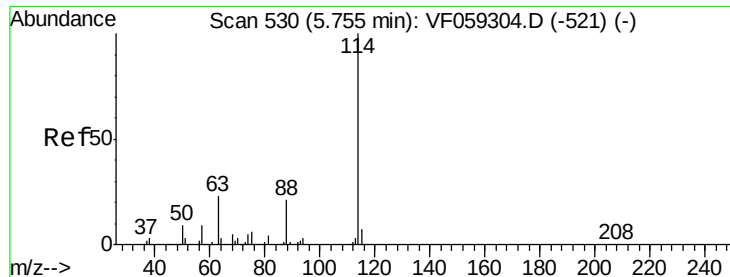
Tgt Ion: 65 Resp: 101

Ion Ratio Lower Upper

65 100

67 0.0 0.0 96.8

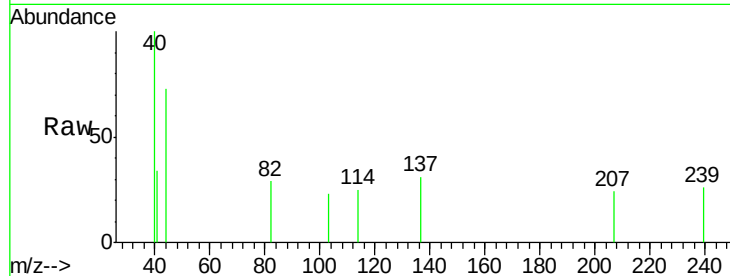




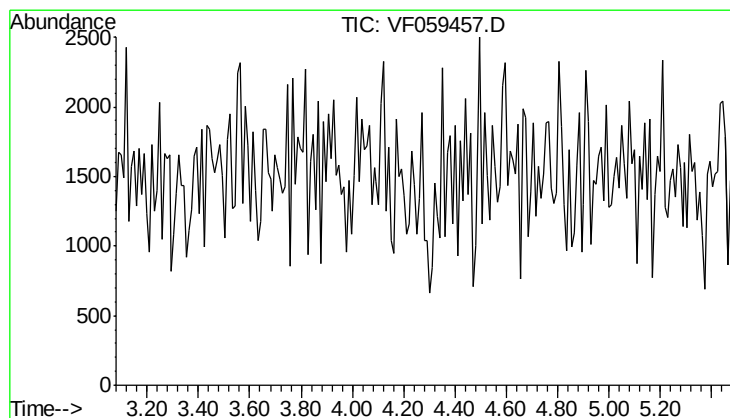
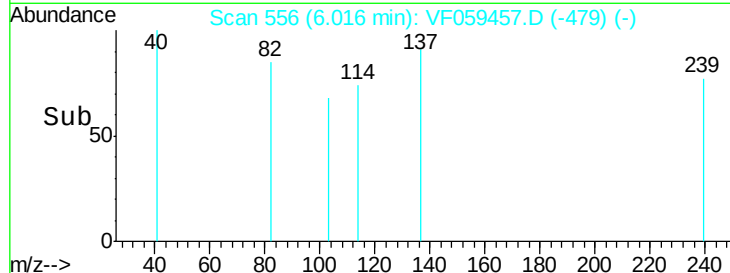
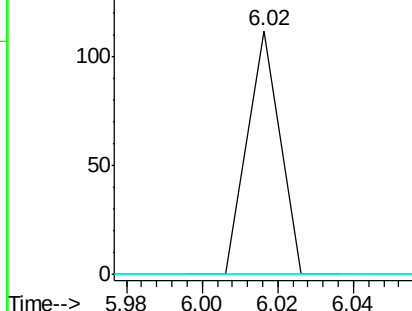
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.02 min Scan# 556
 Delta R.T. 0.26 min
 Lab File: VF059457.D
 Acq: 6 Jul 2018 18:45

Instrument :
 MSVOA_F
 ClientSampled :
 S5

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	45.8
88	0.0	0.0	41.2



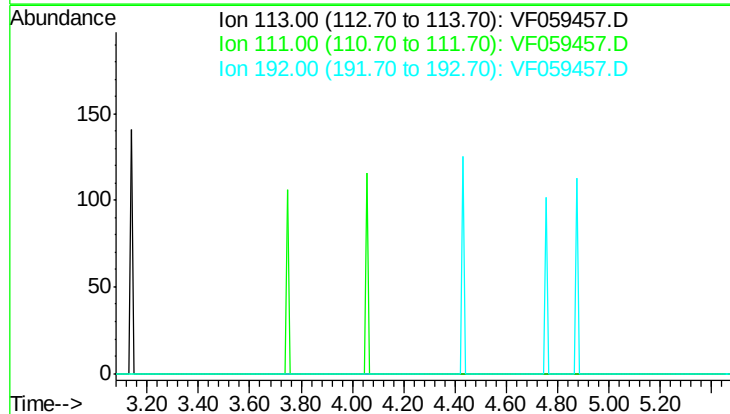
Abundance Ion 114.00 (113.70 to 114.70): VF059457.D
 Ion 63.00 (62.70 to 63.70): VF059457.D
 Ion 88.00 (87.70 to 88.70): VF059457.D

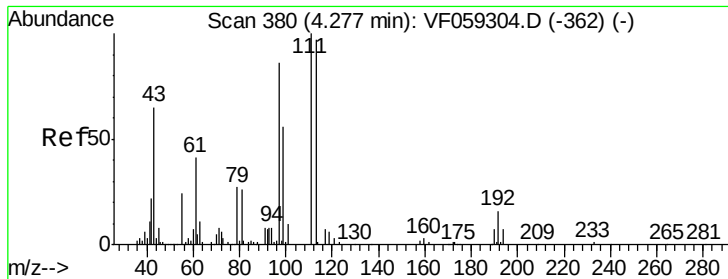


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.28 min

Lab File: VF059457.D
 Acq: 6 Jul 2018 18:45

Tgt Ion	Exp Ratio
113	100
111	102.6
192	16.3





#37

Ethyl Acetate

Concen: 227.586 ug/l

RT: 4.46 min Scan# 398

Delta R.T. 0.18 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampled :

S5

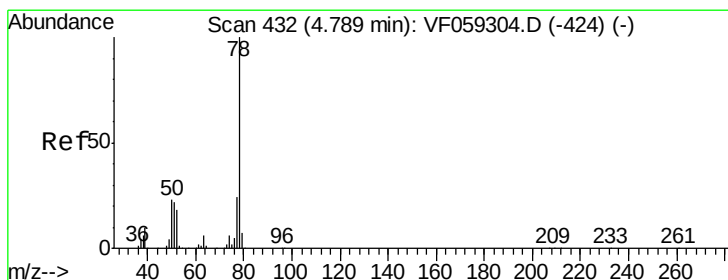
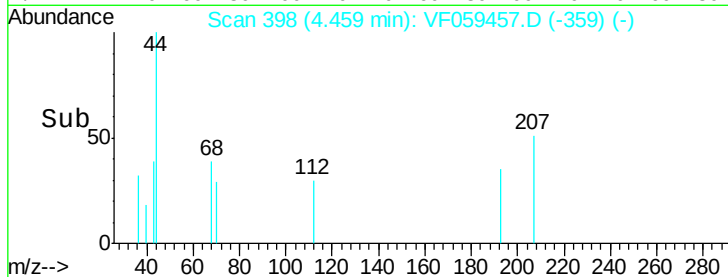
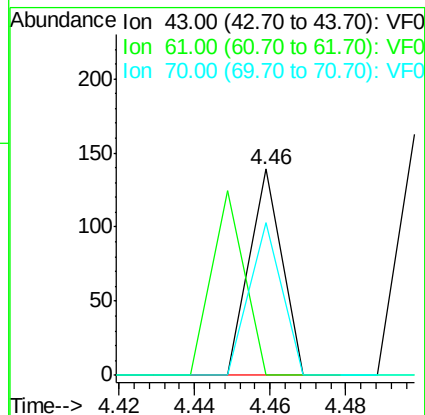
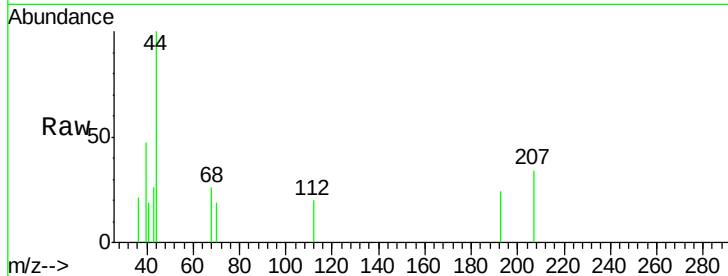
Tot Ion: 43 Resp: 82

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

70 74.1 6.2 9.4#



#40

Benzene

Concen: 46.935 ug/l

RT: 4.96 min Scan# 449

Delta R.T. 0.17 min

Lab File: VF059457.D

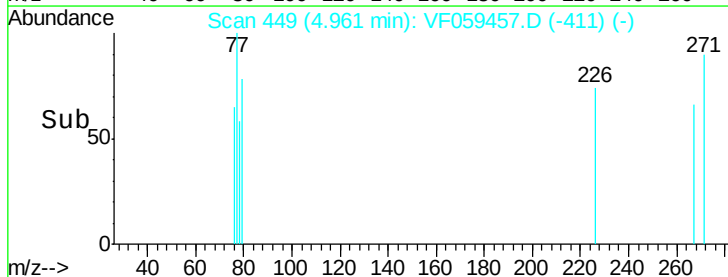
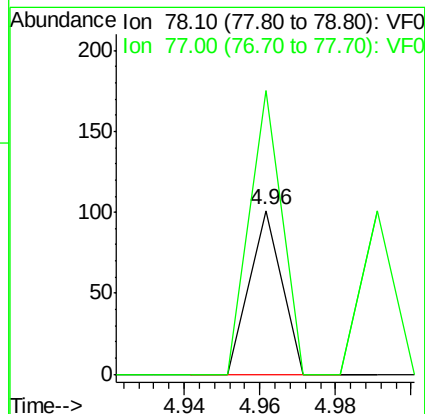
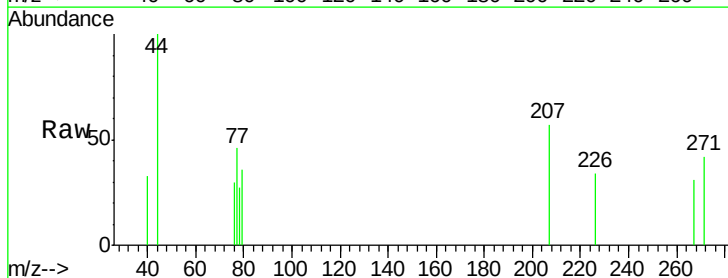
Acq: 6 Jul 2018 18:45

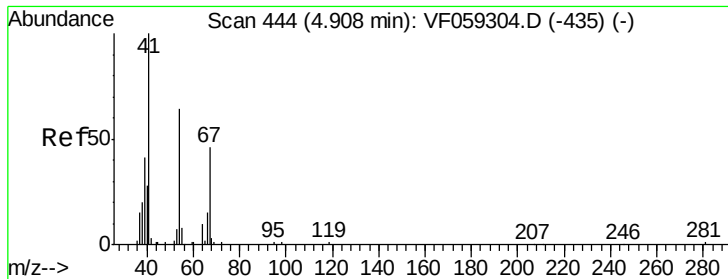
Tgt Ion: 78 Resp: 60

Ion Ratio Lower Upper

78 100

77 173.3 19.6 29.4#





#41

Methacrylonitrile

Concen: 1210.129 ug/l

RT: 5.15 min Scan# 468

Delta R.T. 0.24 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampled :

S5

Tot Ion: 41 Resp: 238

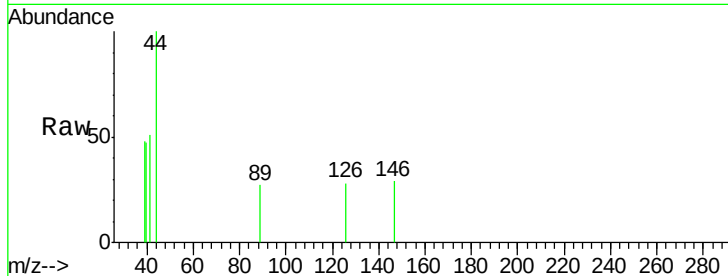
Ion Ratio Lower Upper

41 100

39 94.2 50.0 75.0#

67 0.0 37.0 55.6#

52 0.0 37.1 55.7#

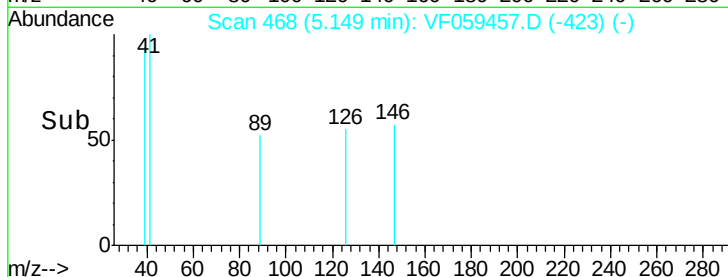
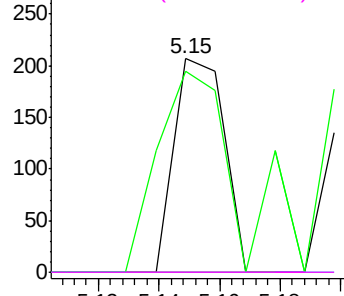


Abundance Ion 41.00 (40.70 to 41.70): VF0

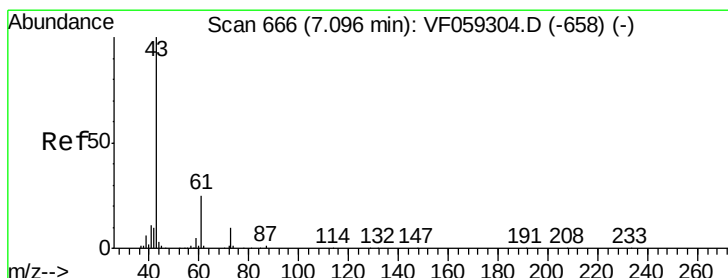
Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->



#43

Isopropyl Acetate

Concen: 172.827 ug/l

RT: 7.41 min Scan# 697

Delta R.T. 0.31 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

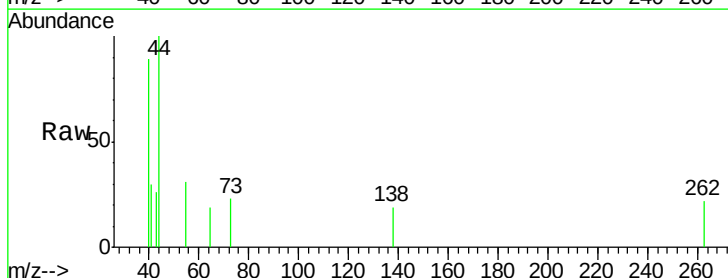
Tgt Ion: 43 Resp: 83

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

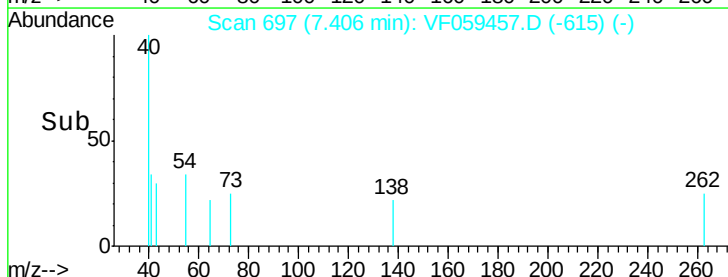
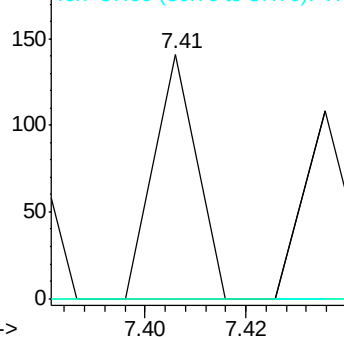
87 0.0 0.5 0.7#

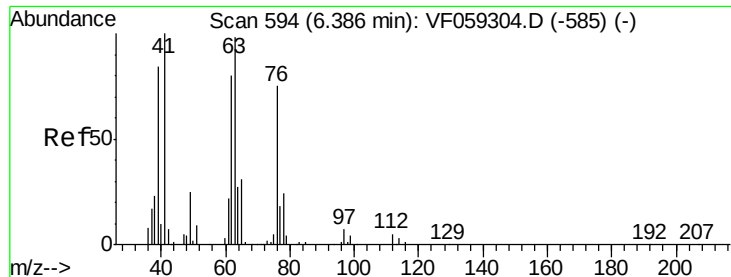


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 208.083 ug/l

RT: 6.54 min Scan# 609

Delta R.T. 0.15 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampled :

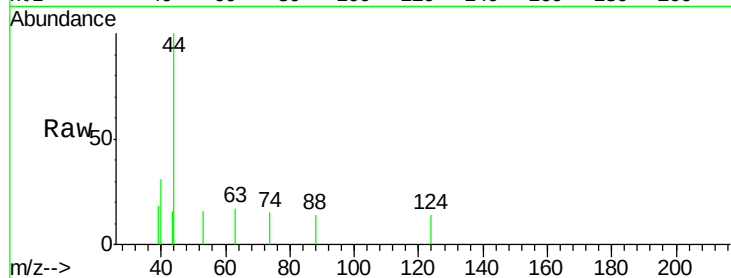
S5

Tot Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

65 0.0 25.3 37.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

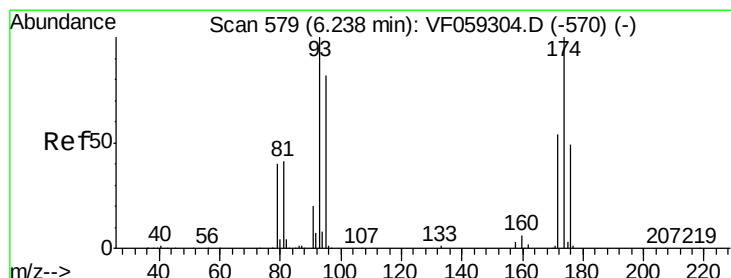
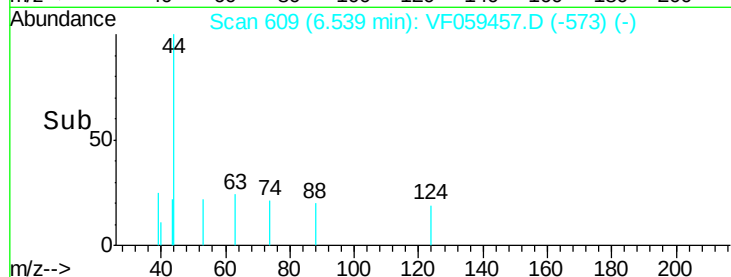
6.54

100

50

0

Time--> 6.50 6.52 6.54 6.56



#46

Dibromomethane

Concen: 201.887 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.17 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

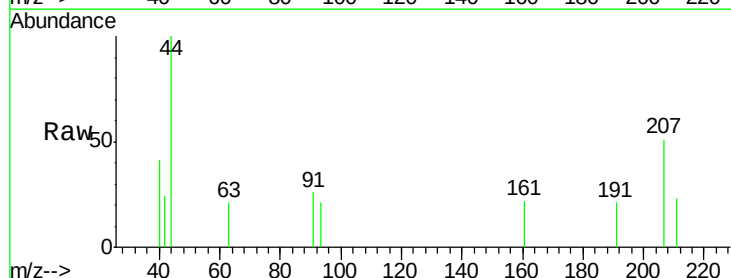
Tgt Ion: 93 Resp: 64

Ion Ratio Lower Upper

93 100

95 0.0 65.6 98.4#

174 0.0 80.0 120.0#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

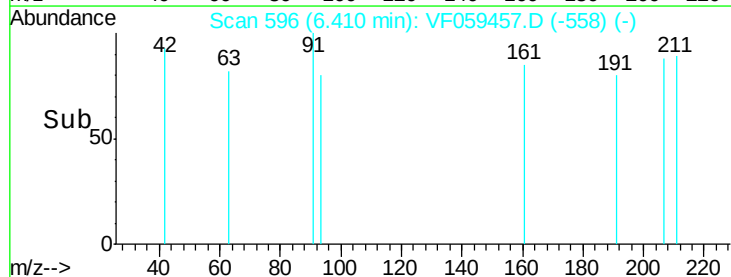
6.41

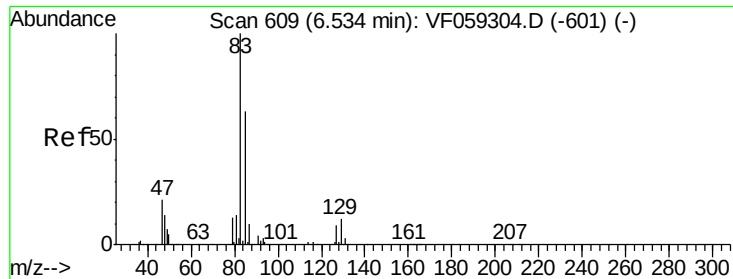
100

50

0

Time--> 6.38 6.40 6.42 6.44





#47

Bromodichloromethane

Concen: 110.767 ug/l

RT: 6.94 min Scan# 650

Delta R.T. 0.41 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampled :

S5

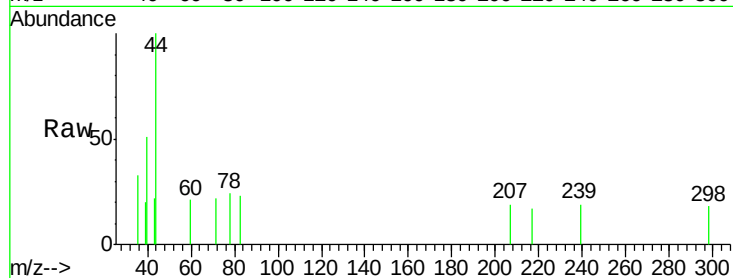
Tot Ion: 83 Resp: 85

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

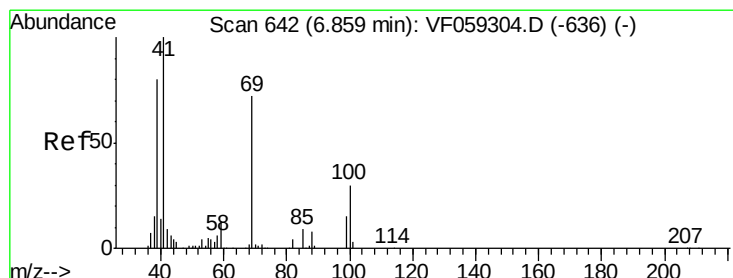
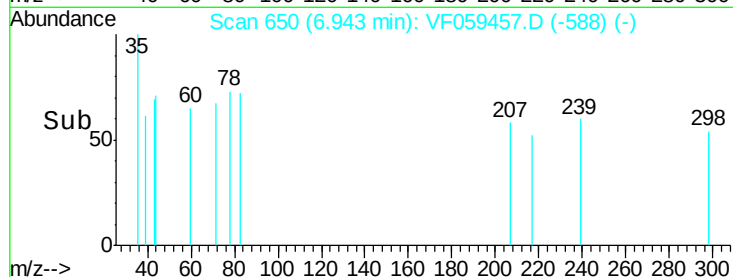
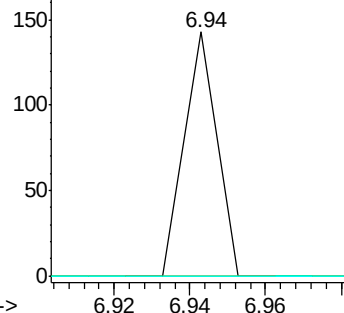
127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 1683.897 ug/l

RT: 7.18 min Scan# 674

Delta R.T. 0.32 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

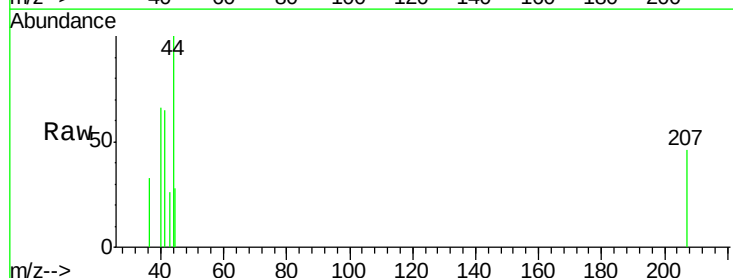
Tgt Ion: 41 Resp: 542

Ion Ratio Lower Upper

41 100

69 0.0 57.3 85.9#

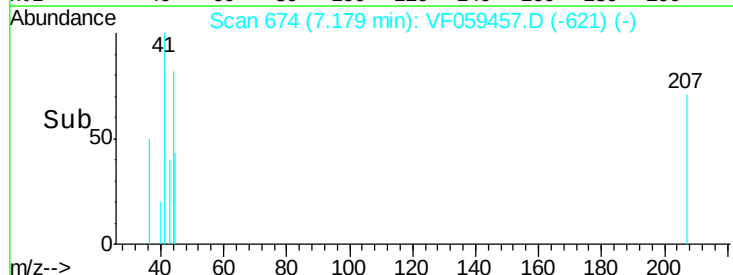
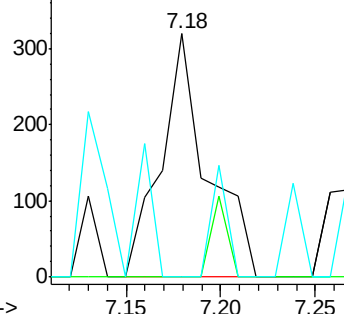
39 0.0 64.4 96.6#

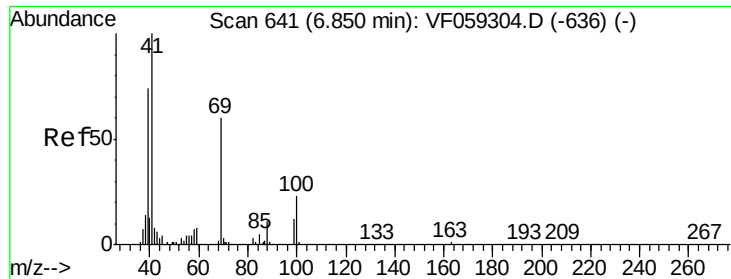


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 43742.909 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.28 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

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ClientSampleId :

S5

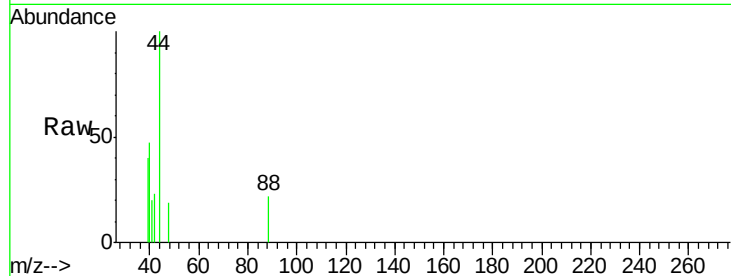
Tot Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

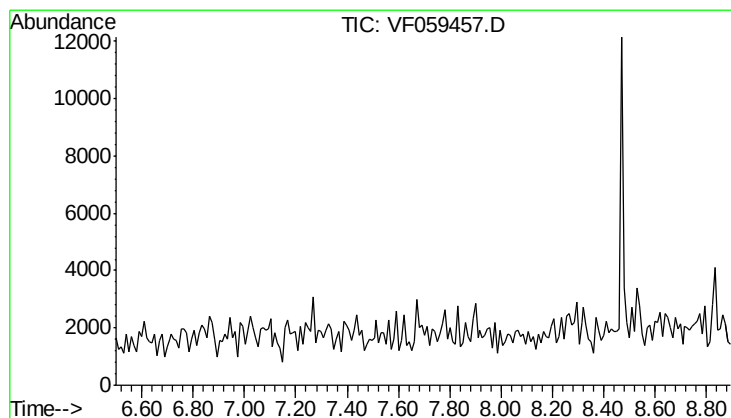
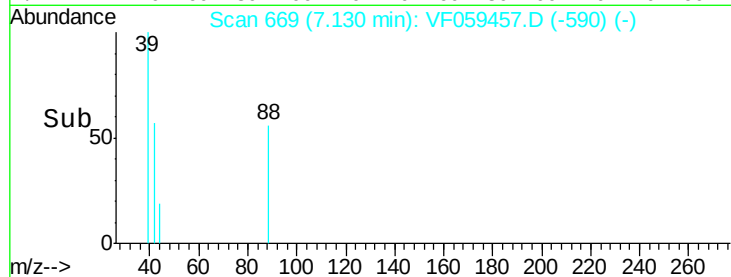
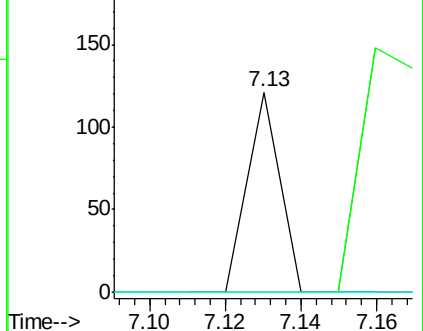
58 0.0 46.6 69.8#



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: 0.000 ug/l

Expected RT: 7.70 min

Lab File: VF059457.D

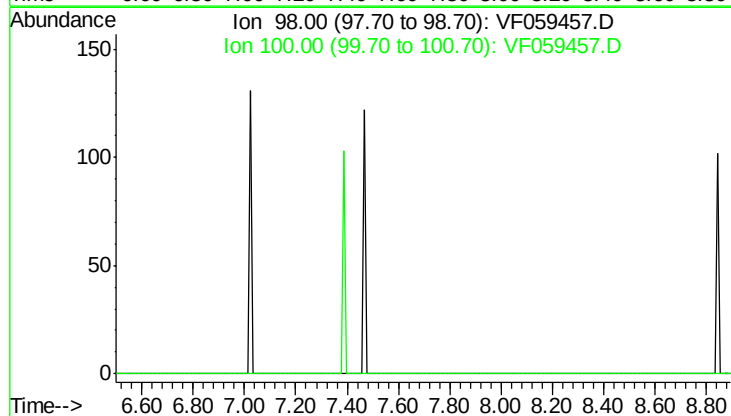
Acq: 6 Jul 2018 18:45

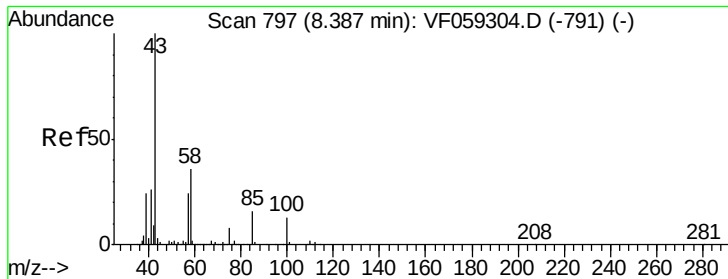
Tgt Ion: 98

Sig Exp Ratio

98 100

100 68.3





#51

4-Methyl-2-Pentanone

Concen: 694.224 ug/l

RT: 8.76 min Scan# 834

Delta R.T. 0.37 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampled :

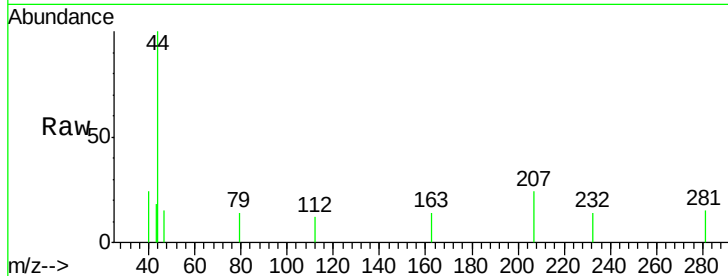
S5

Tot Ion: 43 Resp: 247

Ion Ratio Lower Upper

43 100

58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.76

150

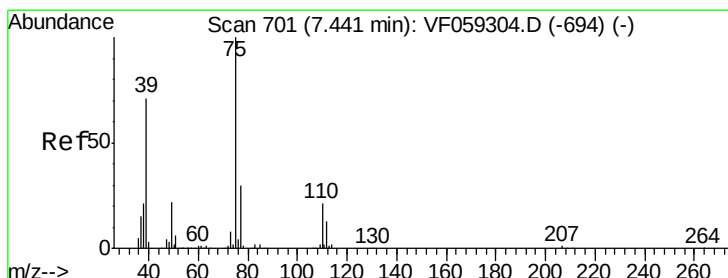
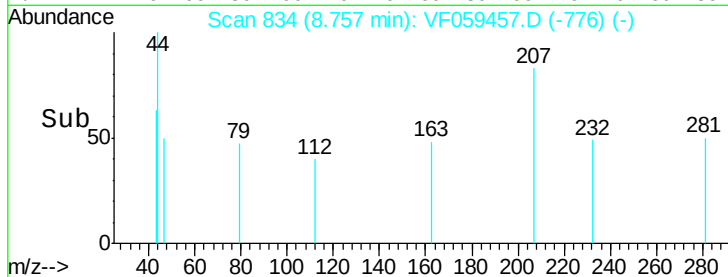
100

50

0

8.72 8.74 8.76 8.78

Time-->



#54

cis-1,3-Dichloropropene

Concen: 132.933 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.27 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

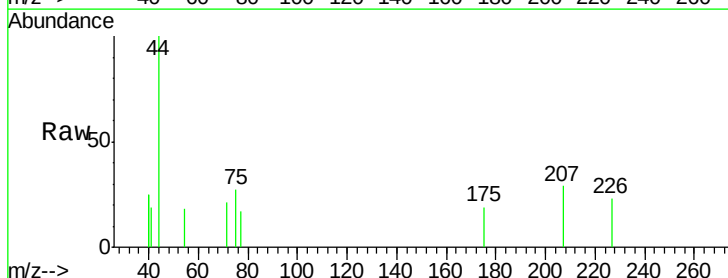
Tgt Ion: 75 Resp: 101

Ion Ratio Lower Upper

75 100

77 64.7 24.3 36.5#

39 92.9 57.2 85.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

250

200

150

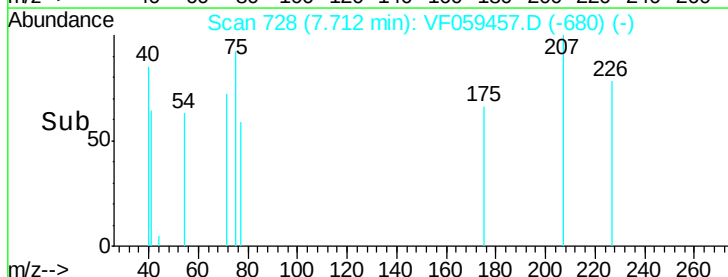
100

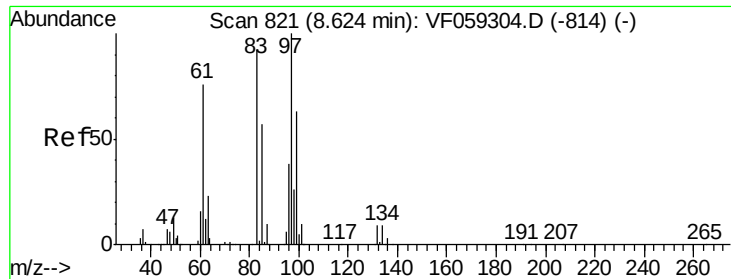
50

0

7.68 7.70 7.72 7.74

Time-->





#55

1,1,2-Trichloroethane

Concen: 158.856 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.40 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

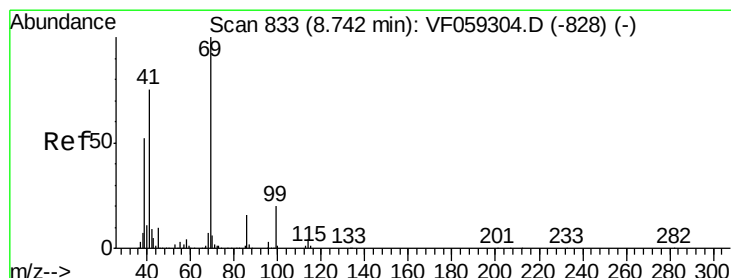
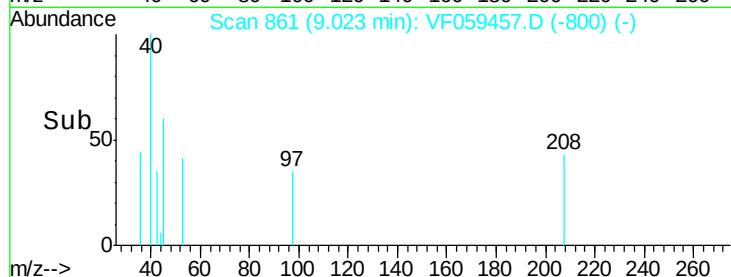
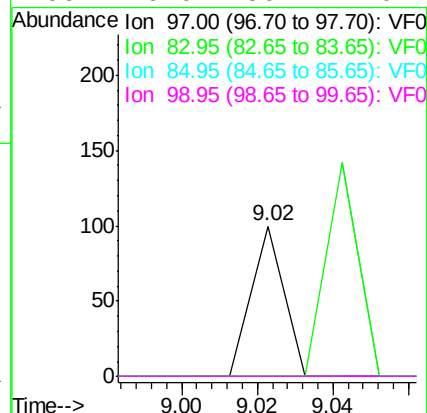
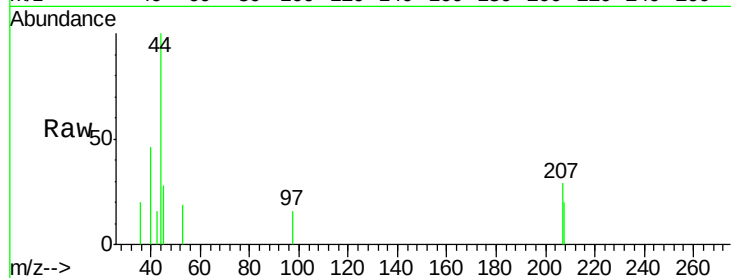
MSVOA_F

ClientSampled :

S5

Tot Ion: 97 Resp: 59

Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.8	110.8#
85	0.0	45.5	68.3#
99	0.0	50.7	76.1#



#56

Ethyl methacrylate

Concen: 130.411 ug/l

RT: 9.10 min Scan# 869

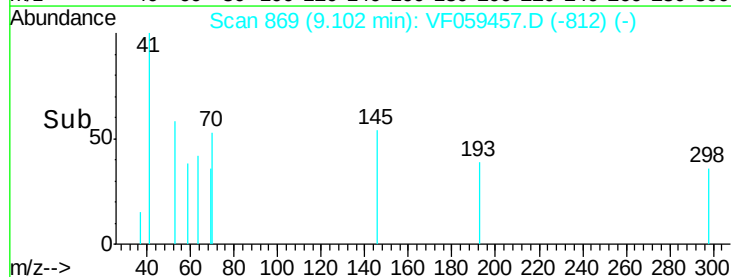
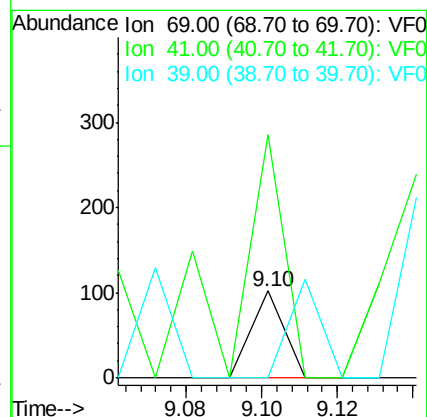
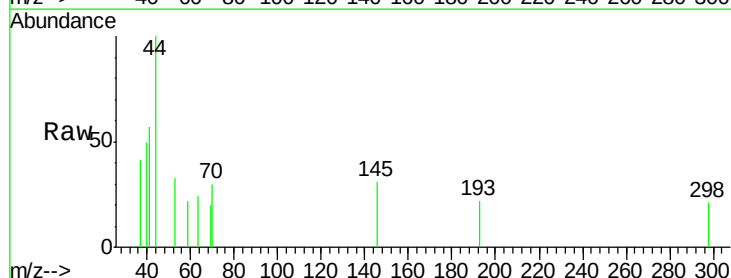
Delta R.T. 0.36 min

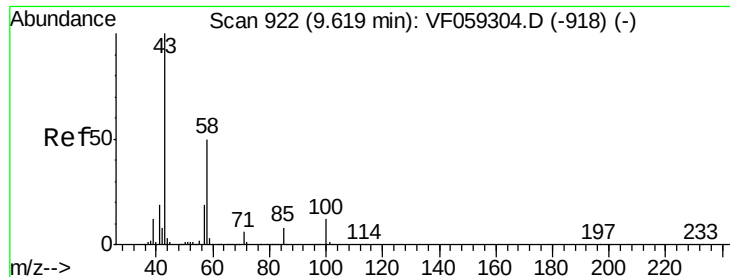
Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Tgt Ion: 69 Resp: 60

Ion	Ratio	Lower	Upper
69	100		
41	280.4	60.3	90.5#
39	0.0	42.2	63.4#

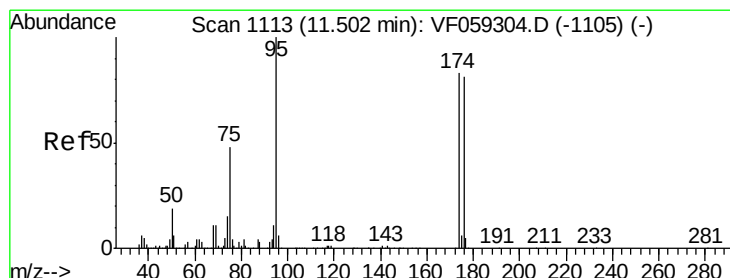
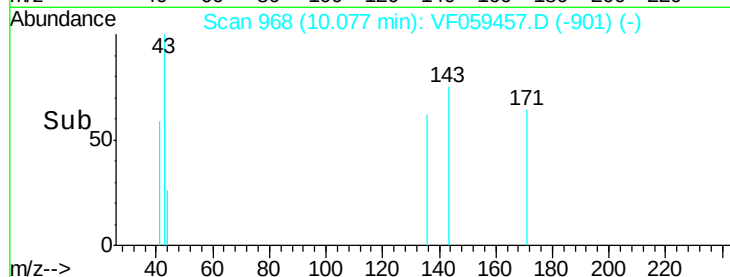
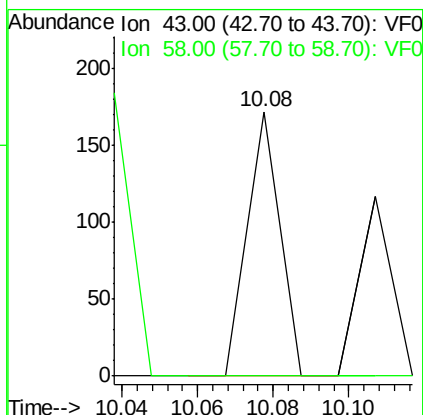
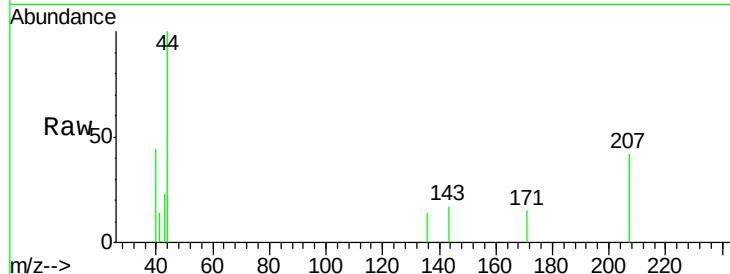




#59
2-Hexanone
Concen: 391.144 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.46 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

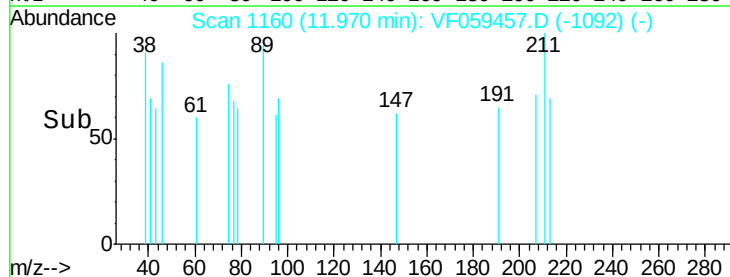
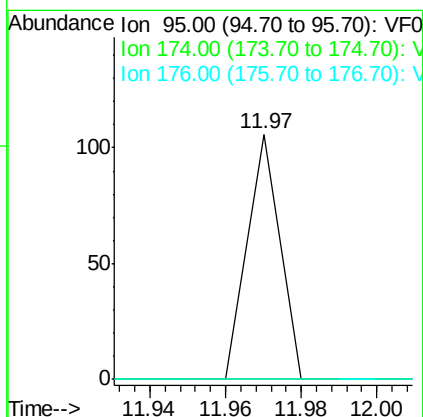
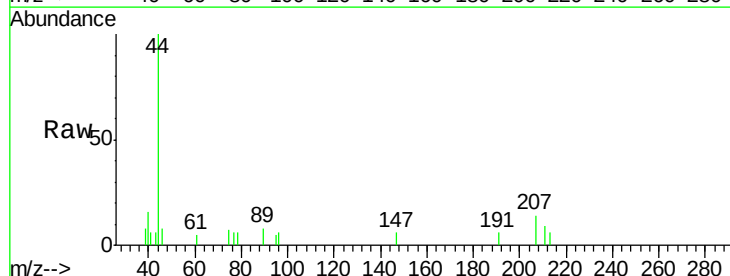
Instrument :
MSVOA_F
ClientSampled :
S5

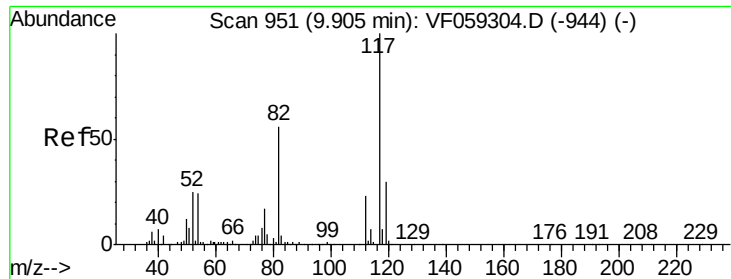
Tot Ion: 43 Resp: 102
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 93.539 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. 0.47 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

Tgt Ion: 95 Resp: 63
Ion Ratio Lower Upper
95 100
174 0.0 0.0 165.2
176 0.0 0.0 161.0

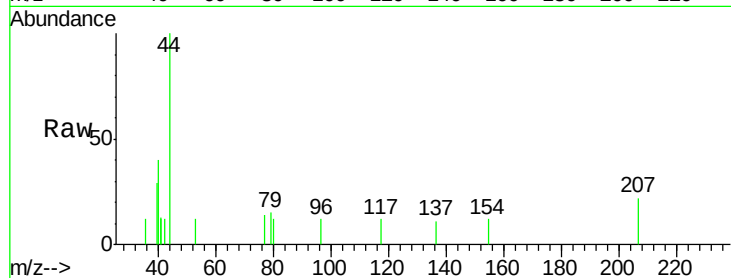




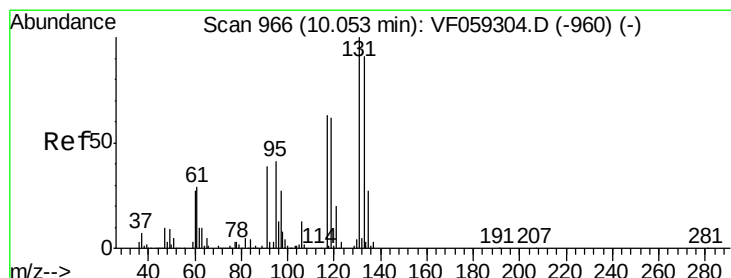
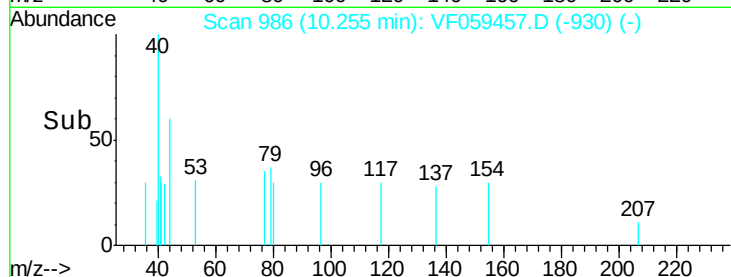
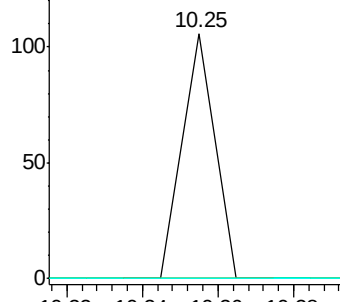
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.25 min Scan# 986
Delta R.T. 0.35 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

Instrument :
MSVOA_F
ClientSampled :
S5

Tot Ion:117 Resp: 63
Ion Ratio Lower Upper
117 100
82 0.0 44.6 66.8#
119 0.0 24.1 36.1#

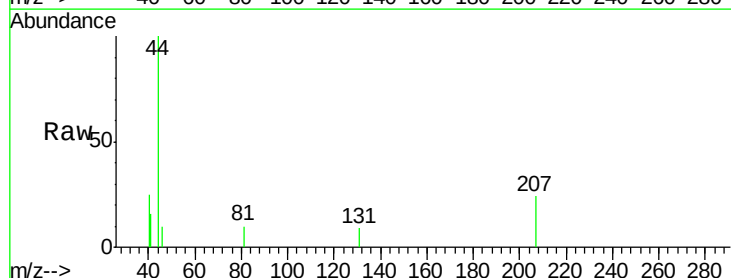


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

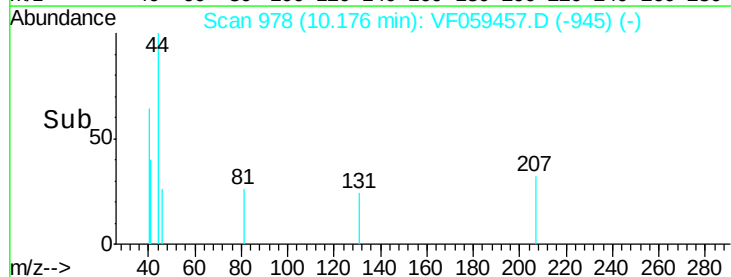
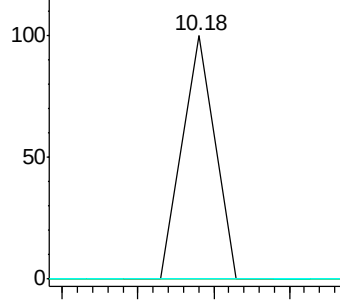


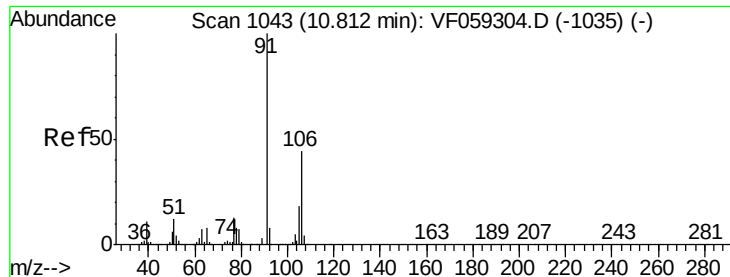
#66
1,1,1,2-Tetrachloroethane
Concen: 116.854 ug/l
RT: 10.18 min Scan# 978
Delta R.T. 0.12 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

Tgt Ion:131 Resp: 59
Ion Ratio Lower Upper
131 100
133 0.0 45.3 135.9#
119 0.0 31.3 93.9#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

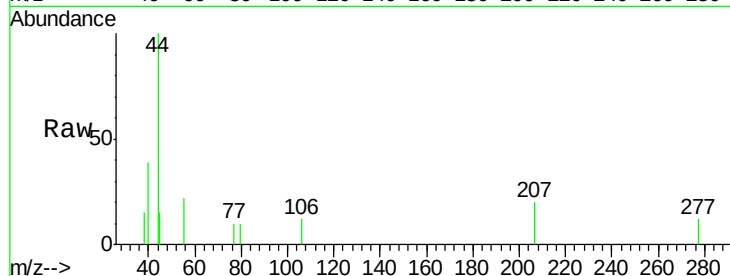




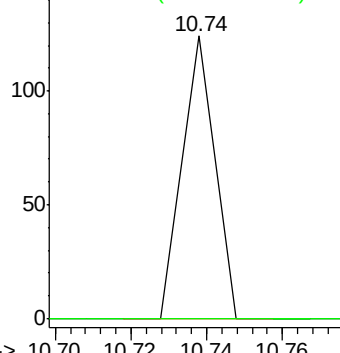
#69
o-Xylene
Concen: 92.590 ug/l
RT: 10.74 min Scan# 1035
Delta R.T. -0.07 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

Instrument :
MSVOA_F
ClientSampled :
S5

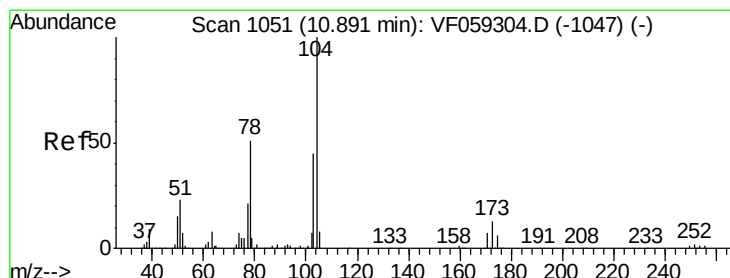
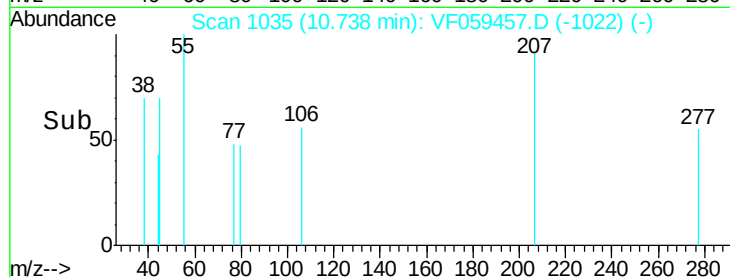
Tot Ion:106 Resp: 73
Ion Ratio Lower Upper
106 100
91 0.0 114.6 343.6#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

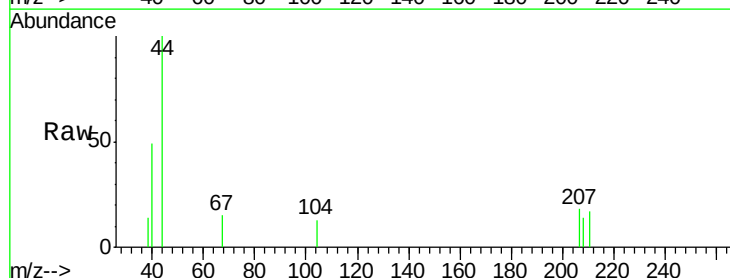


Time--> 10.70 10.72 10.74 10.76

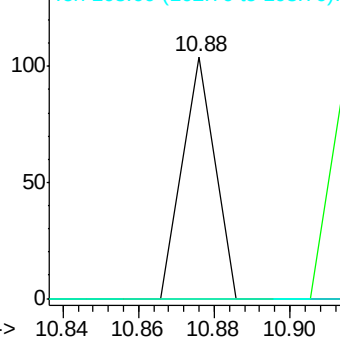


#70
Styrene
Concen: 50.791 ug/l
RT: 10.88 min Scan# 1049
Delta R.T. -0.02 min
Lab File: VF059457.D
Acq: 6 Jul 2018 18:45

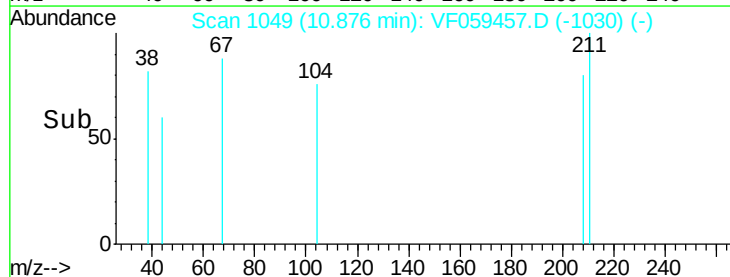
Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 0.0 40.9 61.3#
103 0.0 36.5 54.7#

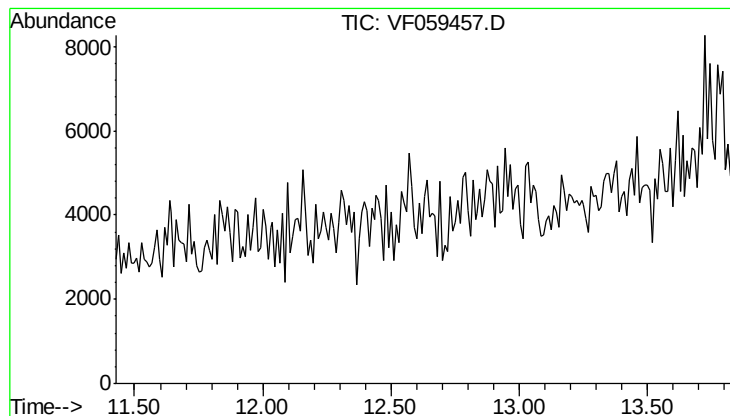


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



Time--> 10.84 10.86 10.88 10.90





#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 12.63 min

Lab File: VF059457.D

Acq: 6 Jul 2018 18:45

Instrument :

MSVOA_F

ClientSampleId :

S5

Tot Ion: 152

Sig Exp Ratio

152 100

115 54.2

150 152.6

