

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080718\
 Data File : VF059907.D
 Acq On : 7 Aug 2018 7:09
 Operator : VA/AP
 Sample : VF0806SBL02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 07 09:00:02 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	5.05	168	181034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	254962	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	257521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	172216	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	180392	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	
35) Dibromofluoromethane	4.30	113	147731	58.24	ug/l	0.00
Spiked Amount			Recovery	=	116.48%	
50) Toluene-d8	7.72	98	281183	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.52	95	160375	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	

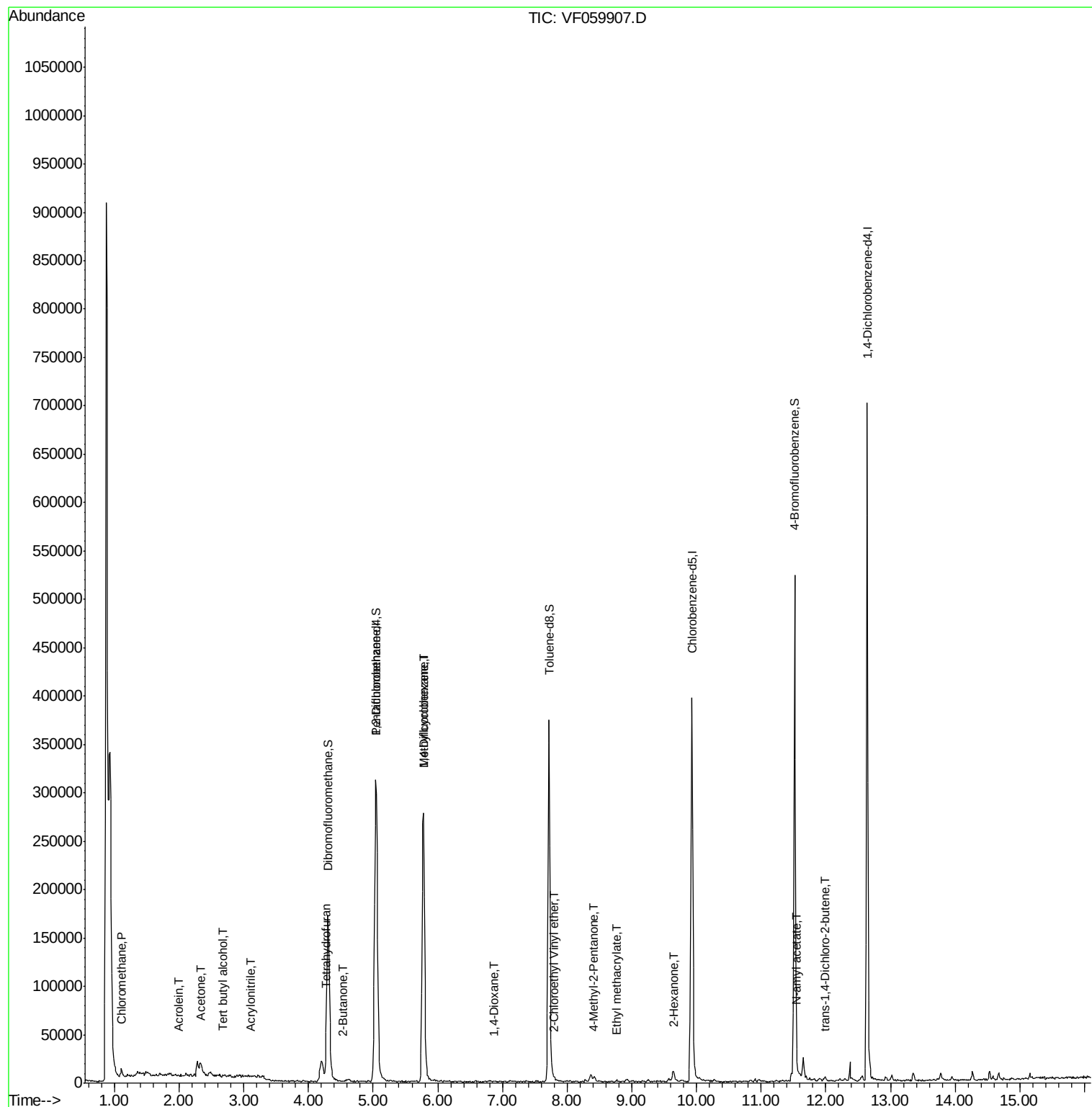
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.11	50	1592	1.11	ug/l	93
11) Tert butyl alcohol	2.67	59	480	3.65	ug/l #	1
13) Acrolein	2.00	56	292	3.70	ug/l	95
15) Acrylonitrile	3.09	53	441	1.83	ug/l #	62
16) Acetone	2.35	43	3726	6.18	ug/l	99
20) Methylene Chloride	2.28	84	5783	Below Cal	#	76
25) 2-Butanone	4.54	43	897	1.37	ug/l #	1
29) Tetrahydrofuran	4.26	42	720	2.99	ug/l #	53
39) Methylcyclohexane	5.77	83	6158	2.78	ug/l #	29
40) Benzene	4.81	78	107	Below Cal	#	1
49) 1,4-Dioxane	6.86	88	64	88.51	ug/l #	49
51) 4-Methyl-2-Pentanone	8.41	43	3380	2.54	ug/l #	69
56) Ethyl methacrylate	8.77	69	580	3.72	ug/l #	66
58) 2-Chloroethyl Vinyl ether	7.81	63	203	1.14	ug/l	100
59) 2-Hexanone	9.63	43	9921	10.54	ug/l	83
74) N-amyl acetate	11.56	43	1012	3.32	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.99	75	936	1.51	ug/l #	36

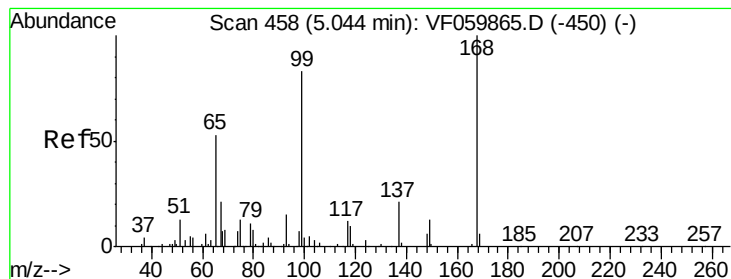
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 04 07:08:36 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

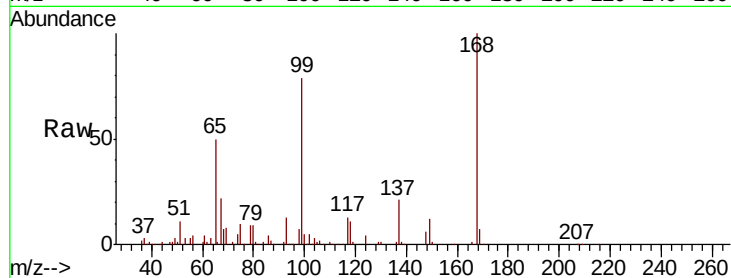
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 181034

Ion Ratio Lower Upper

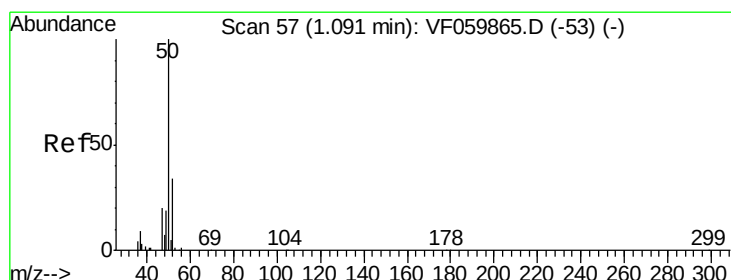
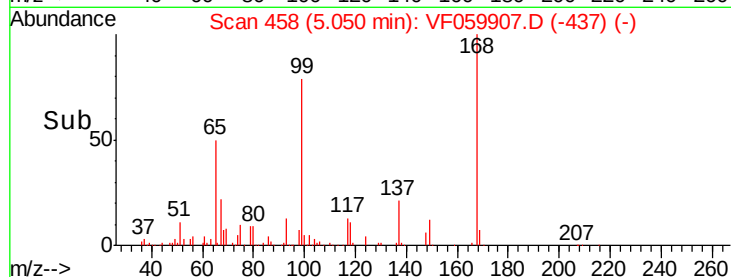
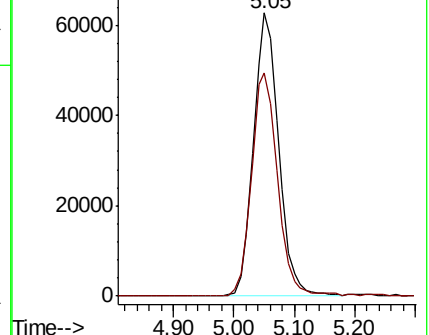
168 100

99 79.0 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.11 ug/l

RT: 1.11 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059907.D

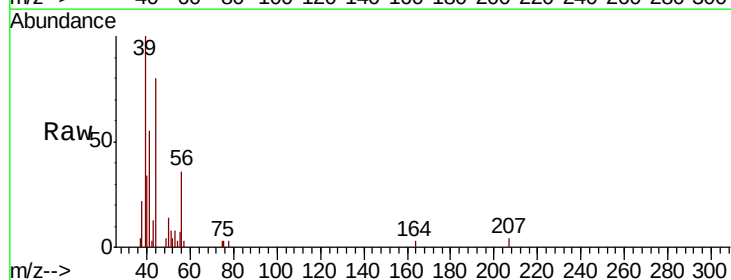
Acq: 7 Aug 2018 7:09

Tgt Ion: 50 Resp: 1592

Ion Ratio Lower Upper

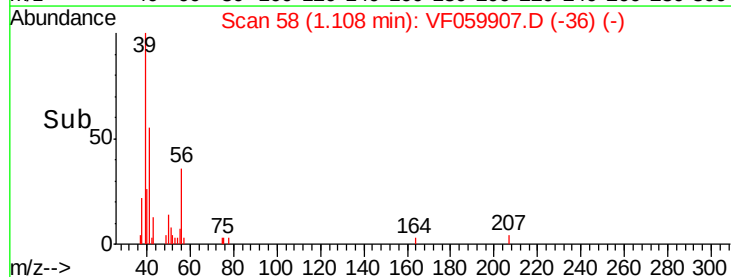
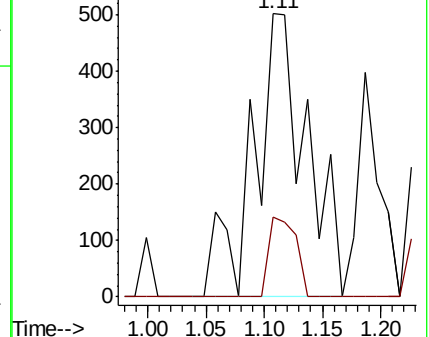
50 100

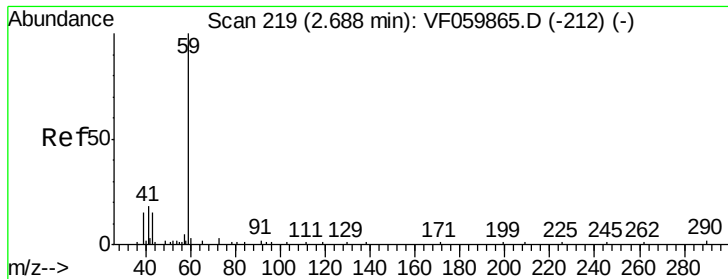
52 28.3 25.8 38.8



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



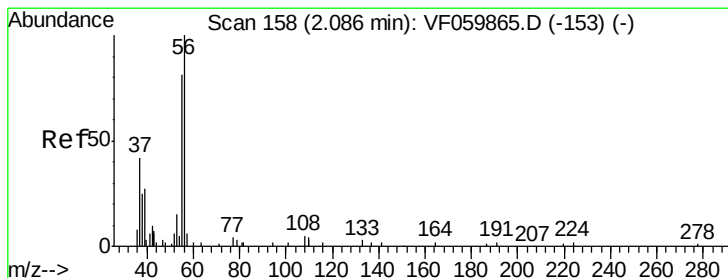
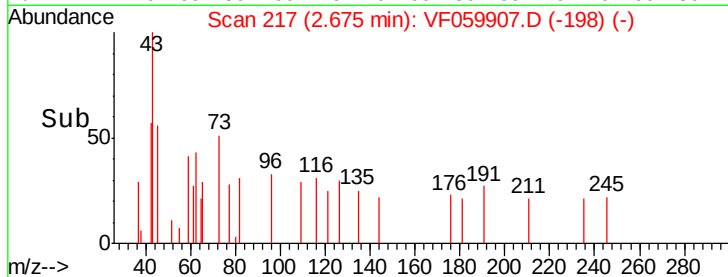
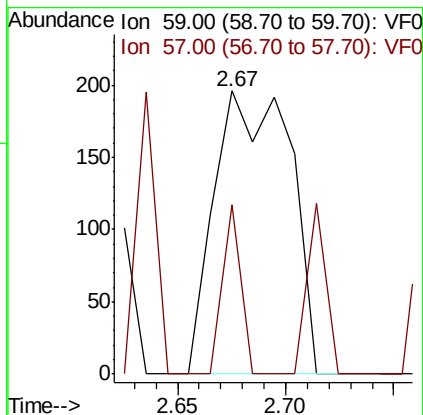
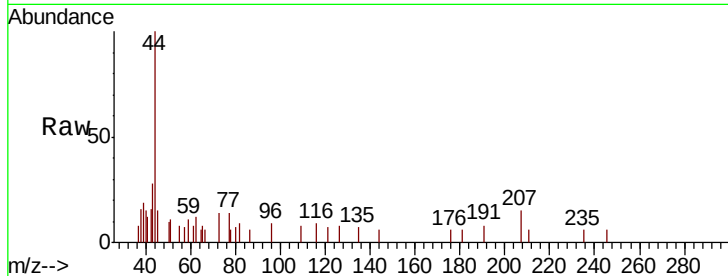


#11

Tert butyl alcohol
Concen: 3.65 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.01 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

Instrument :
MSVOA_F
ClientSampled :

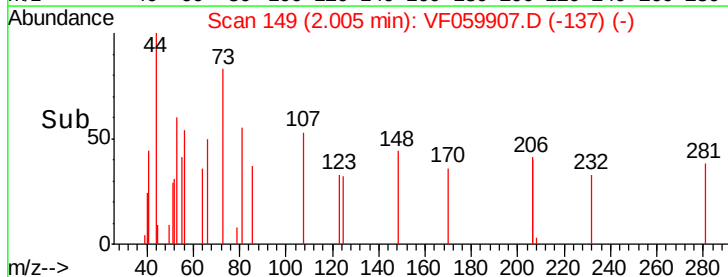
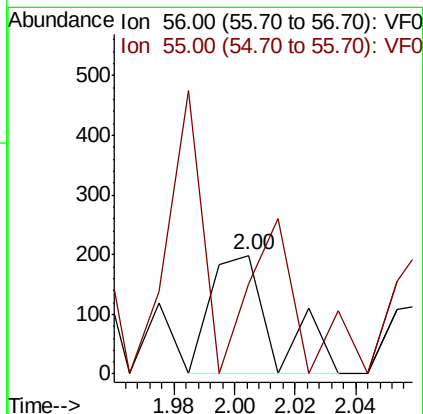
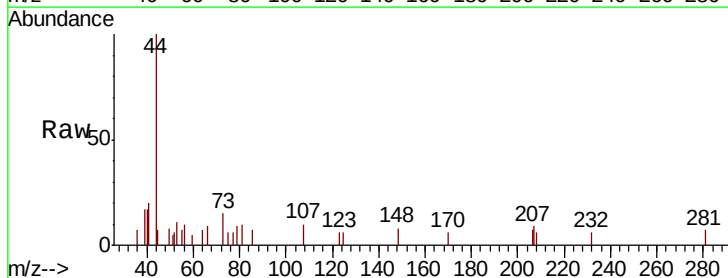
Tot Ion: 59 Resp: 480
Ion Ratio Lower Upper
59 100
57 59.7 7.6 11.4#

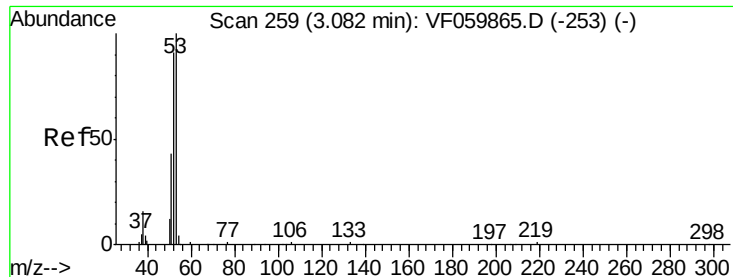


#13

Acrolein
Concen: 3.70 ug/l
RT: 2.00 min Scan# 149
Delta R.T. -0.08 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 75.9 64.6 96.8





#15

Acrylonitrile

Concen: 1.83 ug/l

RT: 3.09 min Scan# 259

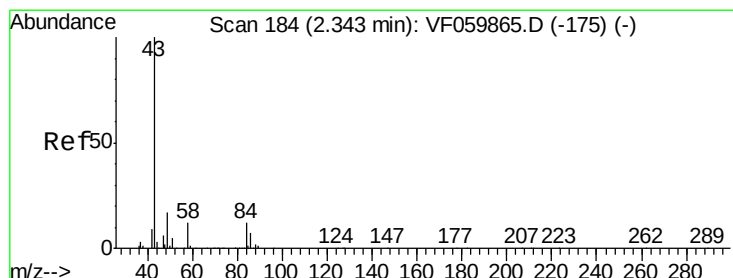
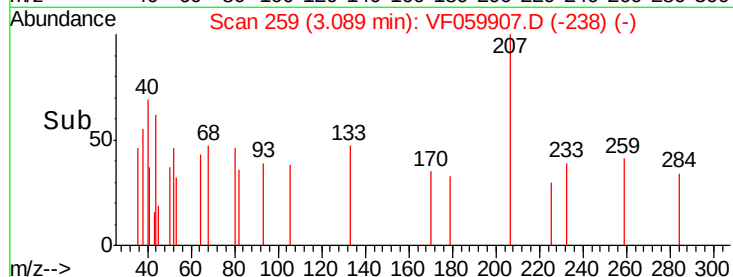
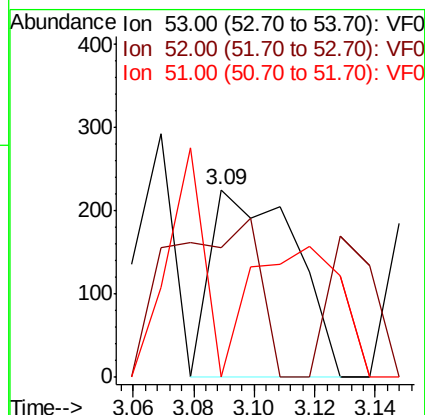
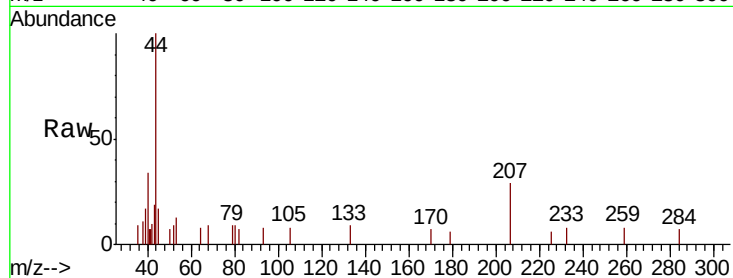
Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	441
Ion	Ratio	Lower	Upper
53	100		
52	68.9	72.9	109.3#
51	0.0	34.5	51.7#



#16

Acetone

Concen: 6.18 ug/l

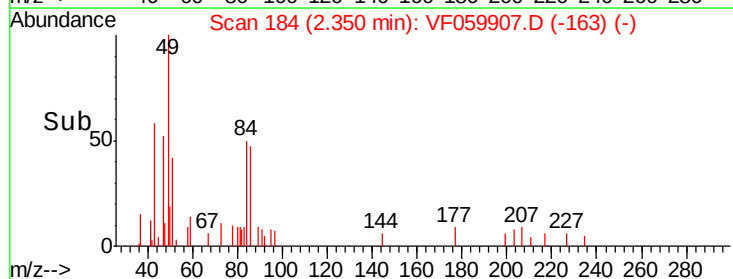
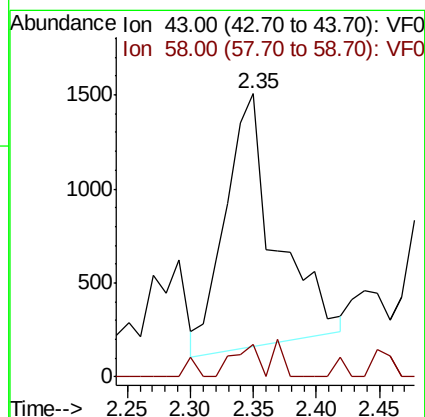
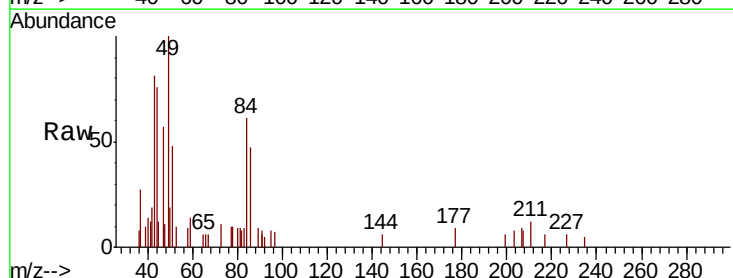
RT: 2.35 min Scan# 184

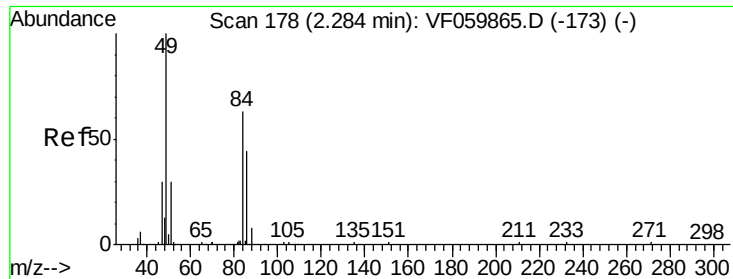
Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Tgt Ion:	43	Resp:	3726
Ion	Ratio	Lower	Upper
43	100		
58	11.3	9.4	14.0

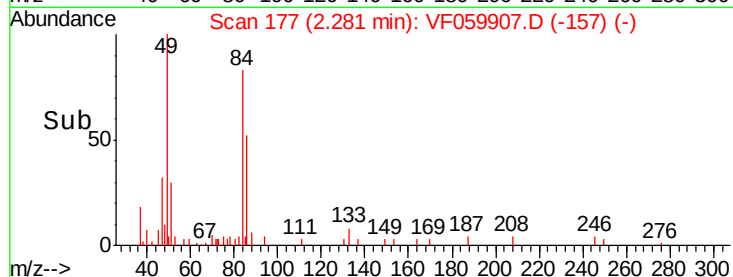
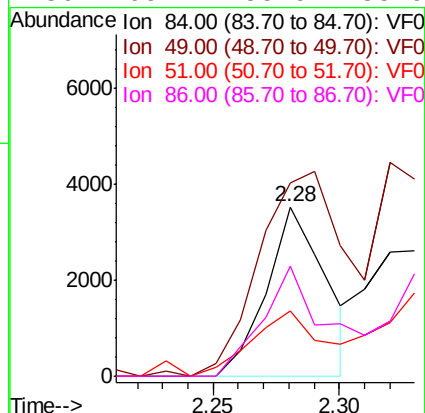
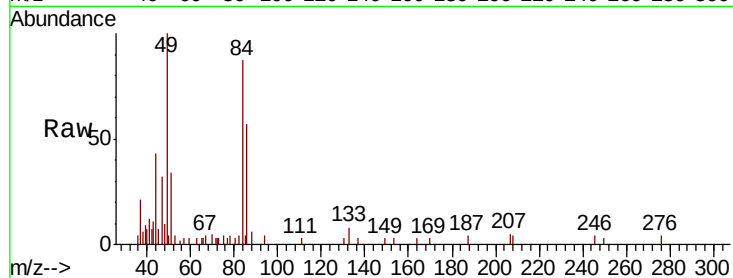




#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

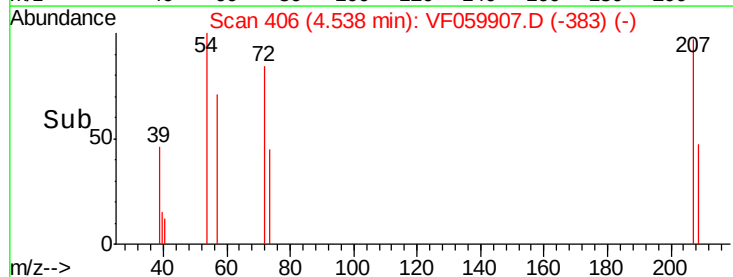
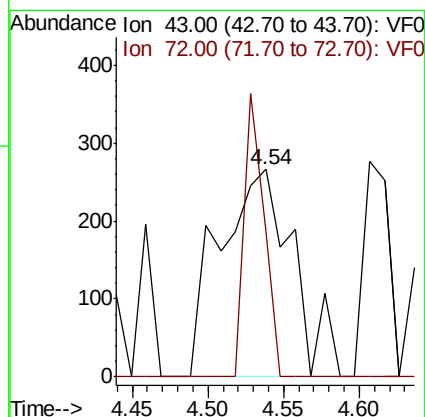
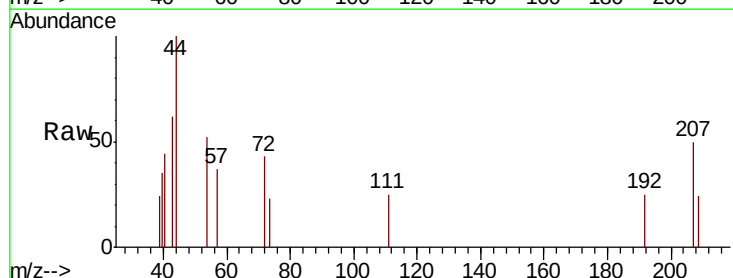
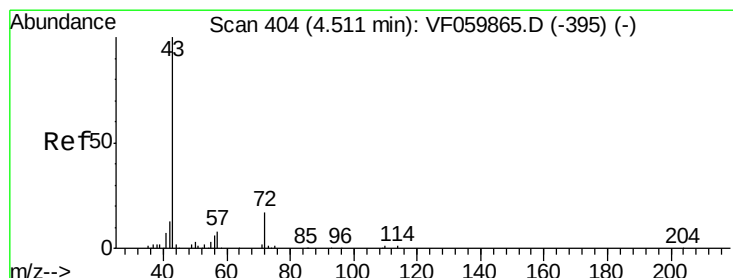
Instrument :
MSVOA_F
ClientSampleId :

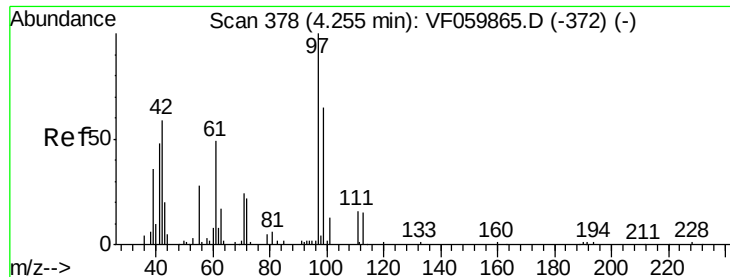
Tot Ion: 84 Resp: 5783
Ion Ratio Lower Upper
84 100
49 114.3 128.7 193.1#
51 38.4 39.3 58.9#
86 65.2 55.9 83.9



#25
2-Butanone
Concen: 1.37 ug/l
RT: 4.54 min Scan# 406
Delta R.T. 0.03 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
72 69.9 13.9 20.9#





#29

Tetrahydrofuran

Concen: 2.99 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

ClientSampled :

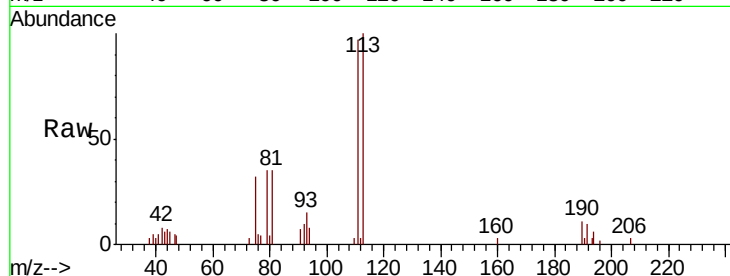
Tot Ion: 42 Resp: 720

Ion Ratio Lower Upper

42 100

72 8.9 29.3 43.9#

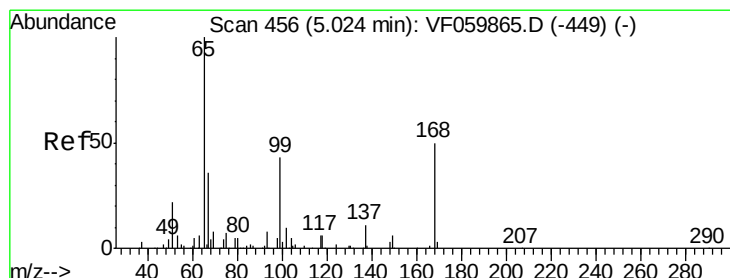
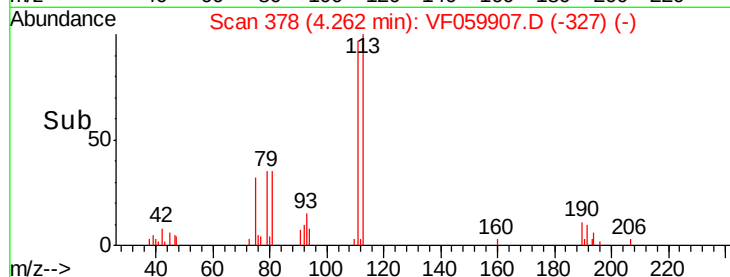
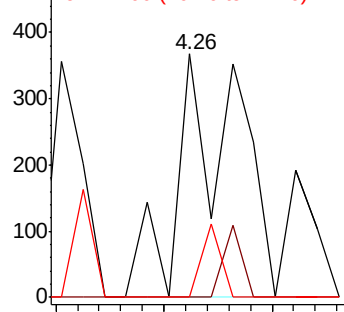
71 9.0 30.0 45.0#



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: 55.27 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF059907.D

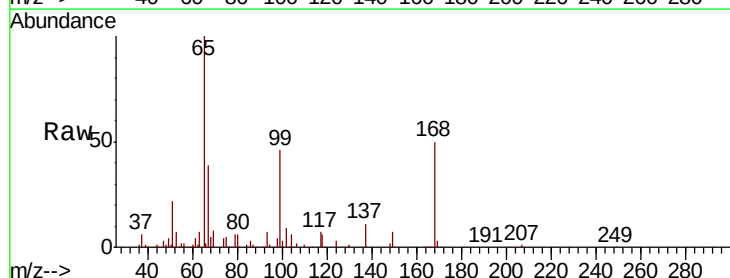
Acq: 7 Aug 2018 7:09

Tgt Ion: 65 Resp: 180392

Ion Ratio Lower Upper

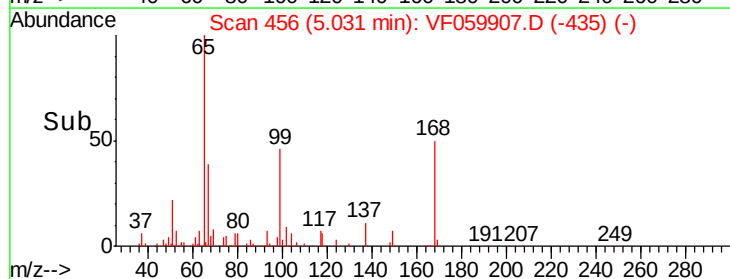
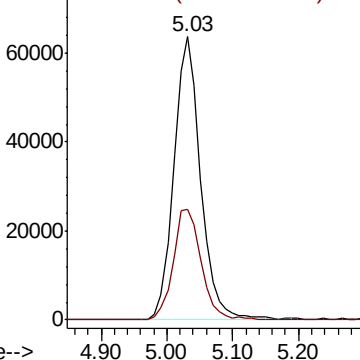
65 100

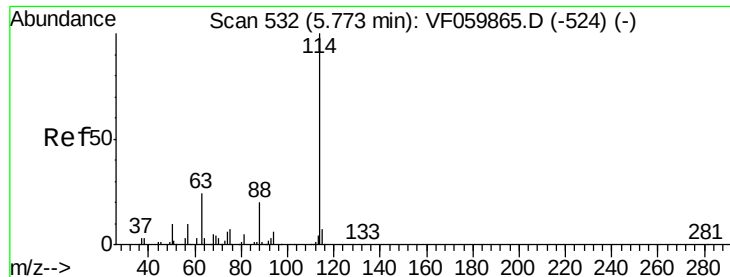
67 39.3 0.0 77.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

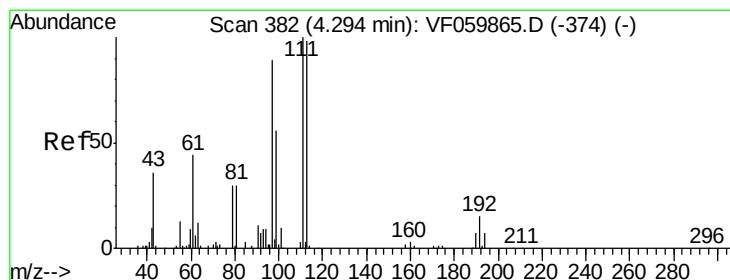
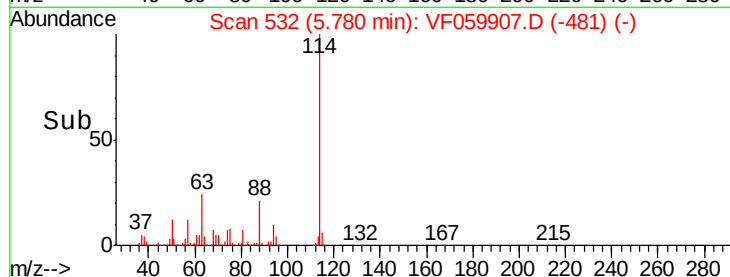
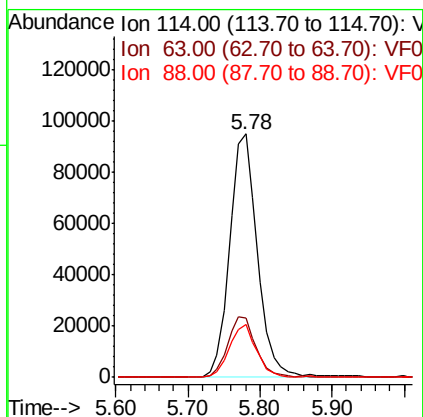
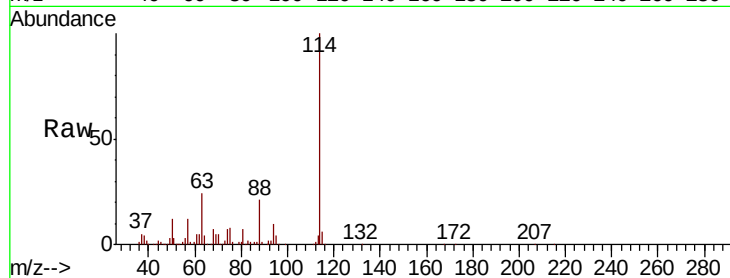




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF059907.D
 Acq: 7 Aug 2018 7:09

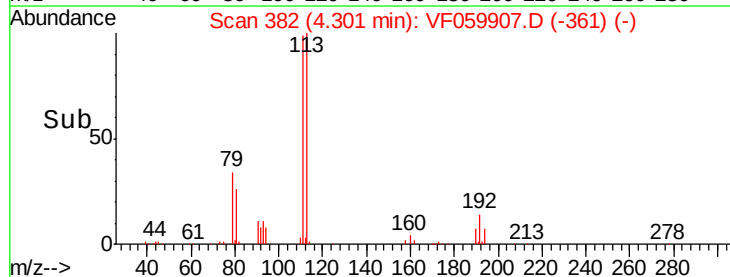
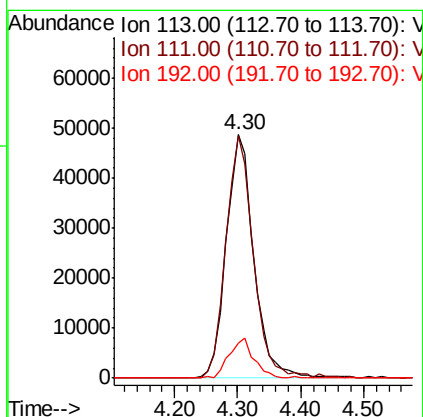
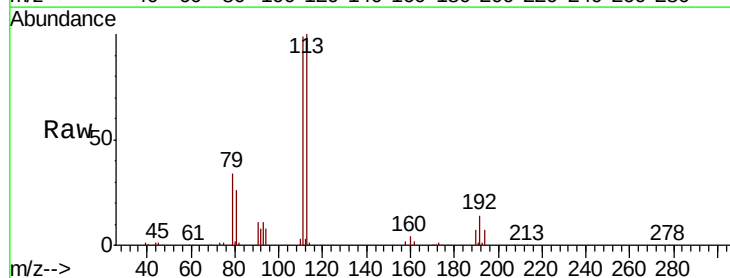
Instrument :
 MSVOA_F
 ClientSampleId :

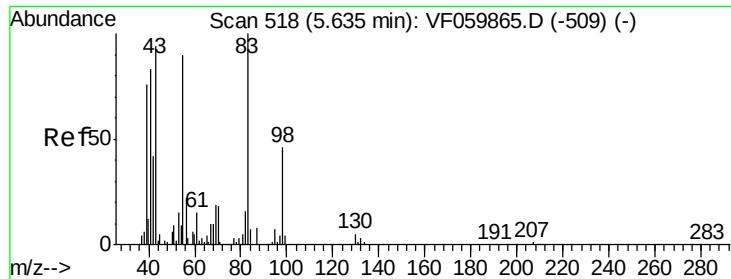
Tot Ion:114 Resp: 254962
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 48.0
 88 21.5 0.0 39.4



#35
 Dibromofluoromethane
 Concen: 58.24 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VF059907.D
 Acq: 7 Aug 2018 7:09

Tgt Ion:113 Resp: 147731
 Ion Ratio Lower Upper
 113 100
 111 99.5 81.8 122.8
 192 14.3 12.4 18.6

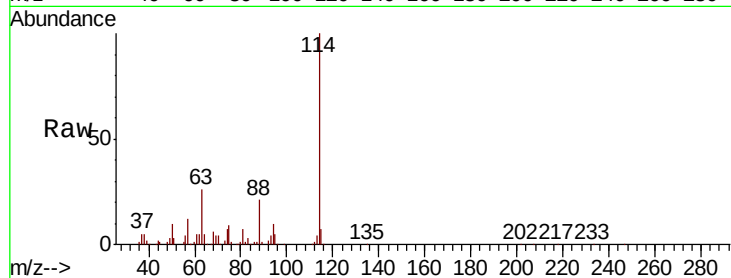




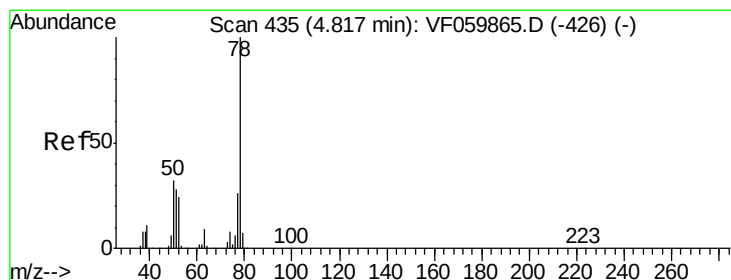
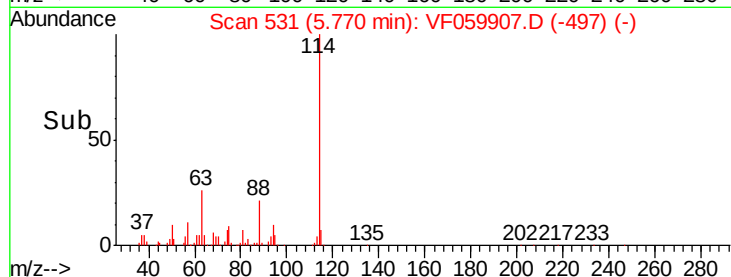
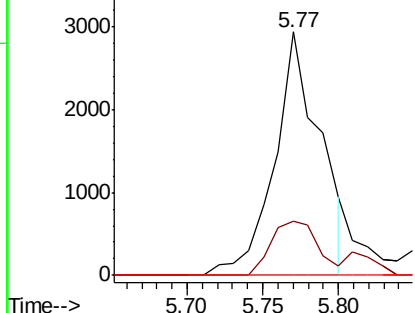
#39
Methylvlcyclohexane
Concen: 2.78 ug/l
RT: 5.77 min Scan# 531
Delta R.T. 0.14 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 6158
Ion Ratio Lower Upper
83 100
55 22.1 72.0 108.0#
98 0.0 36.6 54.8#

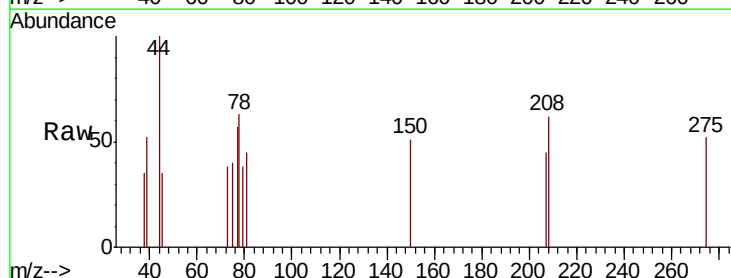


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

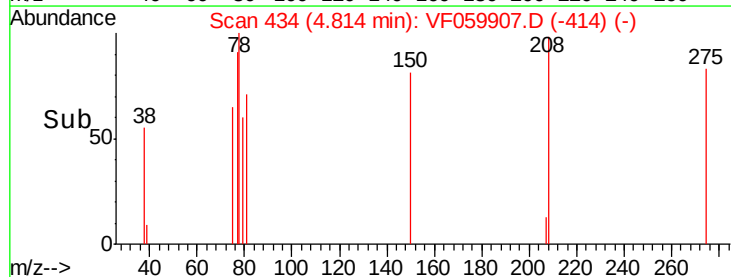
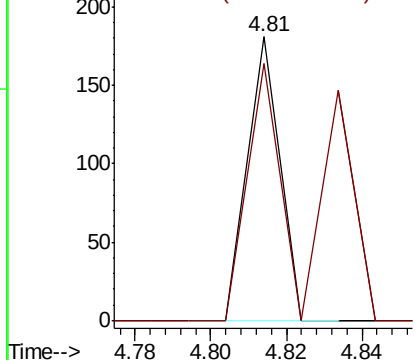


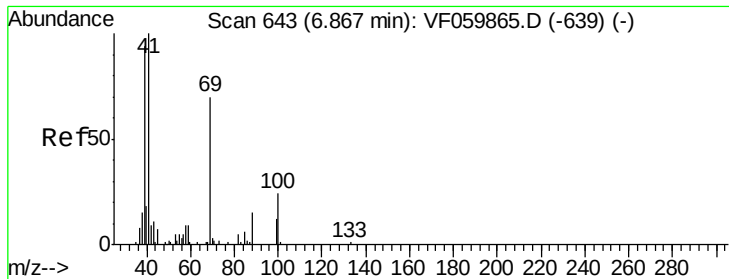
#40
Benzene
Concen: Below Cal
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF059907.D
Acq: 7 Aug 2018 7:09

Tgt Ion: 78 Resp: 107
Ion Ratio Lower Upper
78 100
77 90.6 20.7 31.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#49

1,4-Dioxane

Concen: 88.51 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

ClientSampleId :

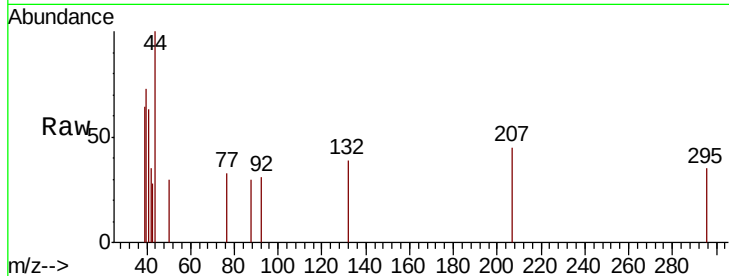
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 95.4 58.3 87.5#

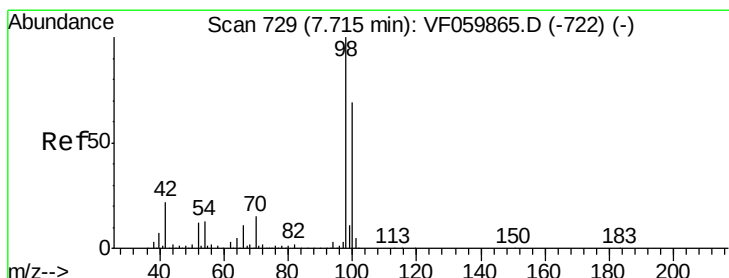
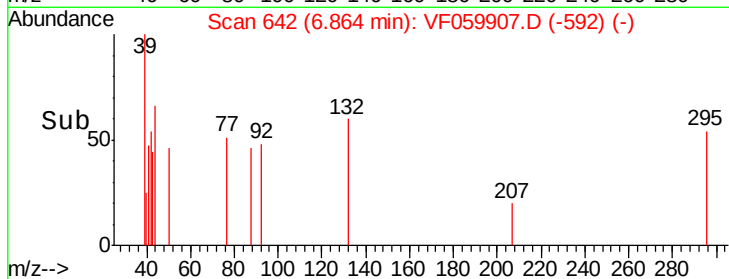
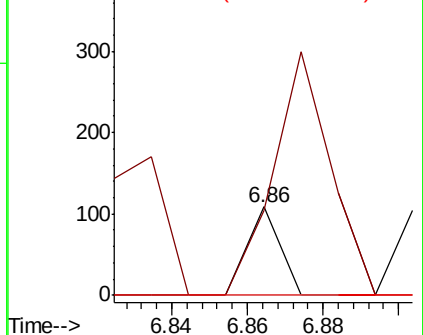
58 0.0 49.4 74.2#



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: 52.10 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF059907.D

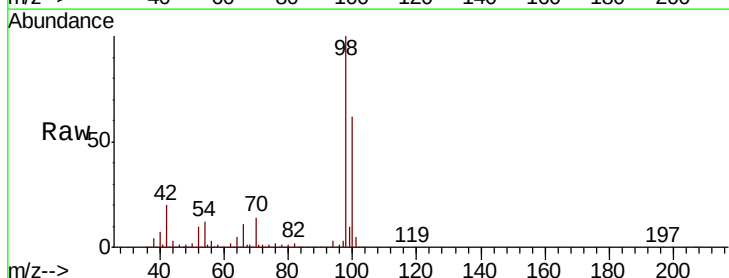
Acq: 7 Aug 2018 7:09

Tgt Ion: 98 Resp: 281183

Ion Ratio Lower Upper

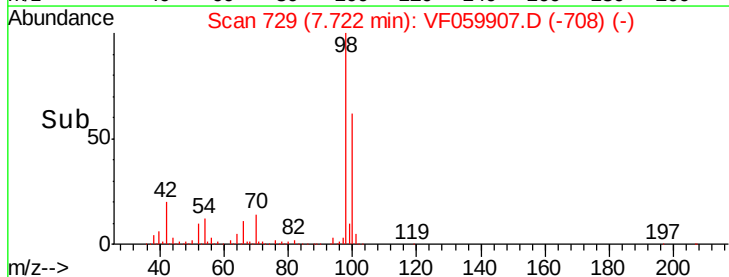
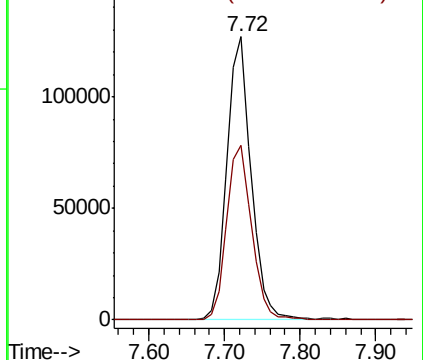
98 100

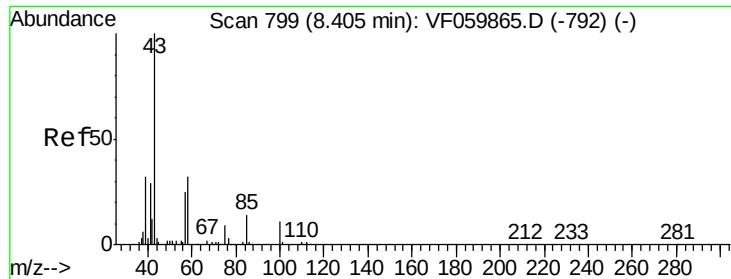
100 61.8 55.0 82.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.54 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

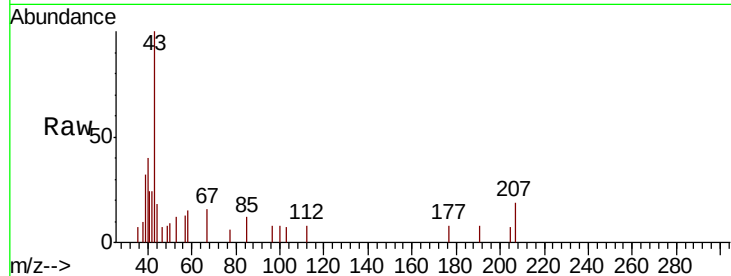
ClientSampleId :

Tot Ion: 43 Resp: 3380

Ion Ratio Lower Upper

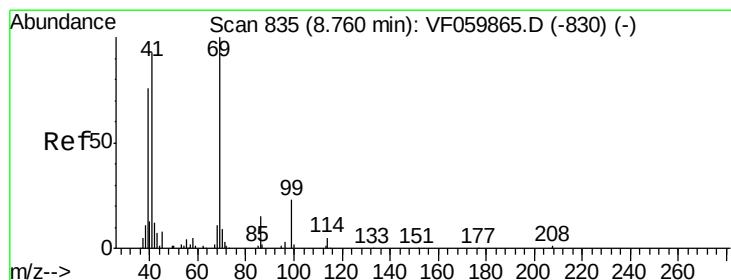
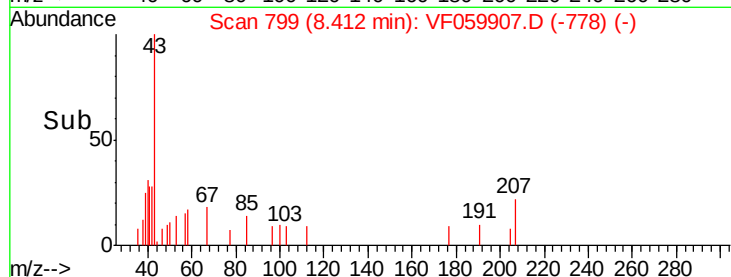
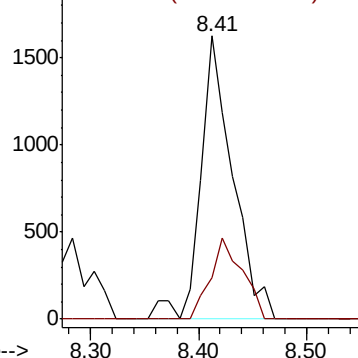
43 100

58 14.6 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 3.72 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

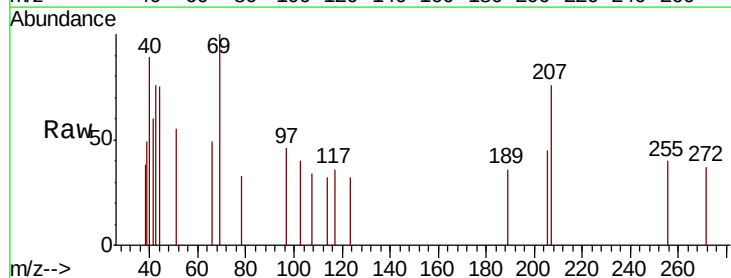
Tgt Ion: 69 Resp: 580

Ion Ratio Lower Upper

69 100

41 59.6 74.7 112.1#

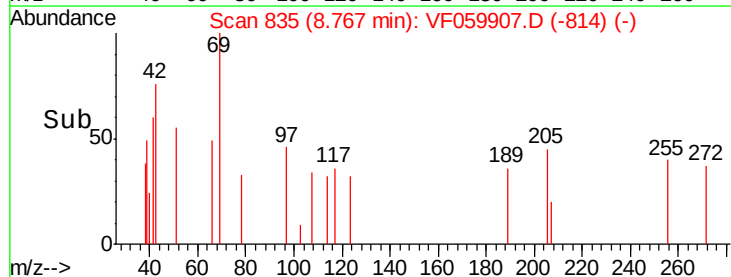
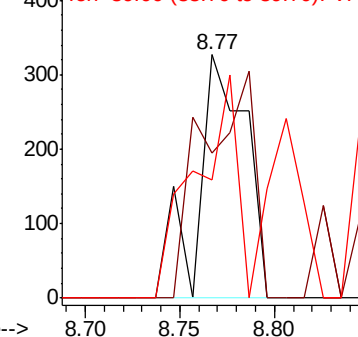
39 48.6 61.1 91.7#

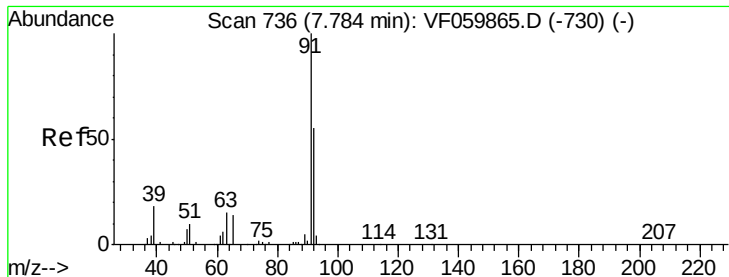


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.14 ug/l

RT: 7.81 min Scan# 738

Delta R.T. 0.03 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

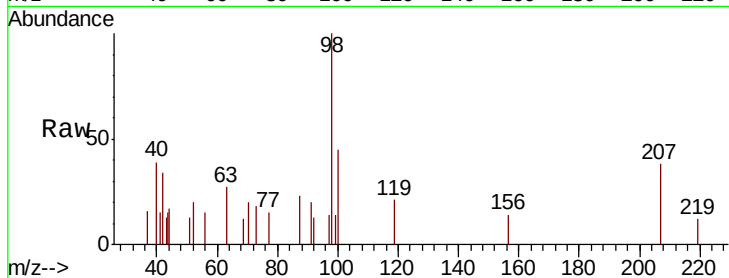
ClientSampled :

Tot Ion: 63 Resp: 203

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.81

250

200

150

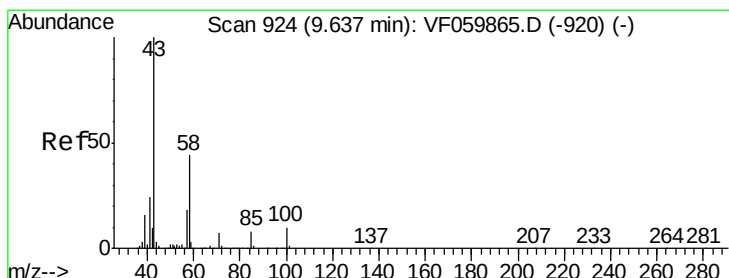
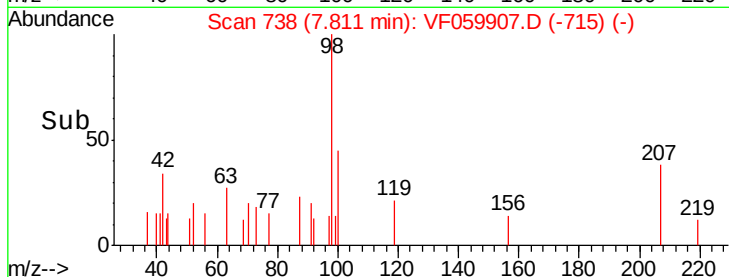
100

50

0

7.76 7.78 7.80 7.82 7.84

Time-->



#59

2-Hexanone

Concen: 10.54 ug/l

RT: 9.63 min Scan# 923

Delta R.T. -0.00 min

Lab File: VF059907.D

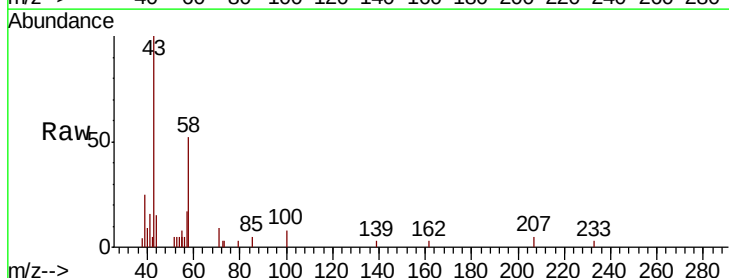
Acq: 7 Aug 2018 7:09

Tgt Ion: 43 Resp: 9921

Ion Ratio Lower Upper

43 100

58 52.2 20.8 62.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

4000

3000

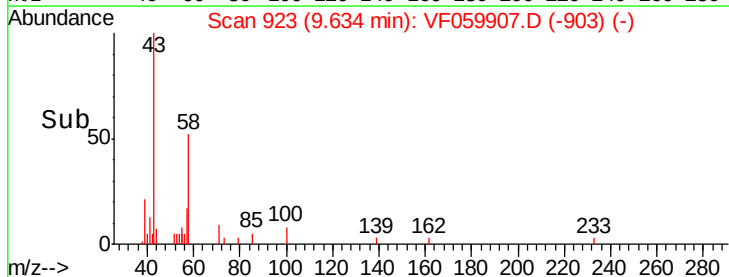
2000

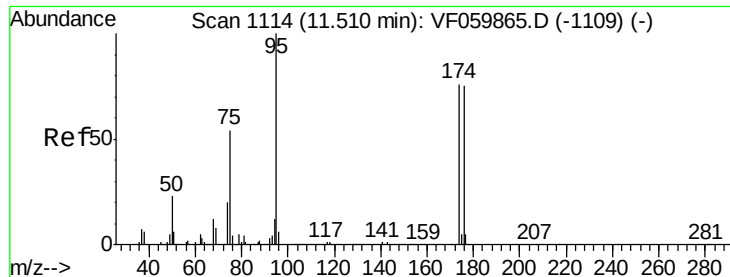
1000

0

9.60 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 52.88 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

ClientSampled :

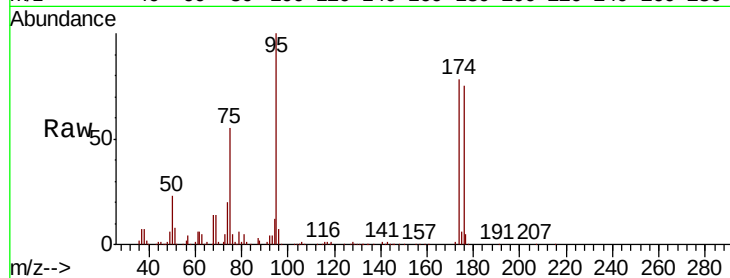
Tot Ion: 95 Resp: 160375

Ion Ratio Lower Upper

95 100

174 78.0 0.0 151.6

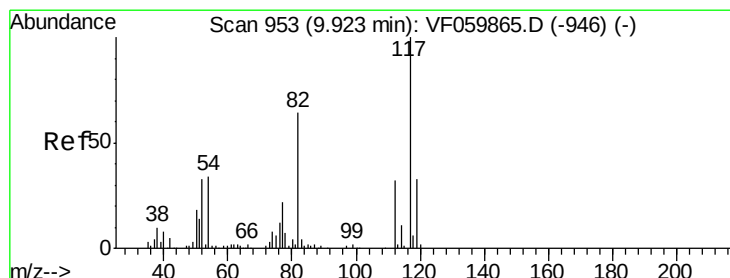
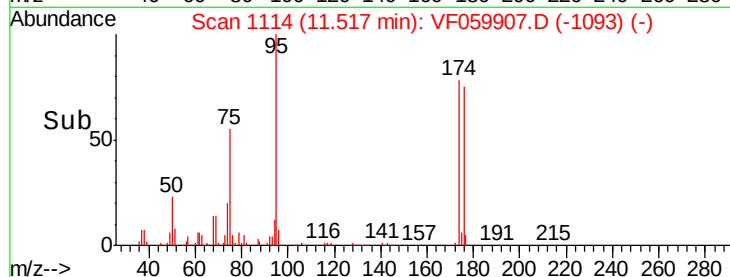
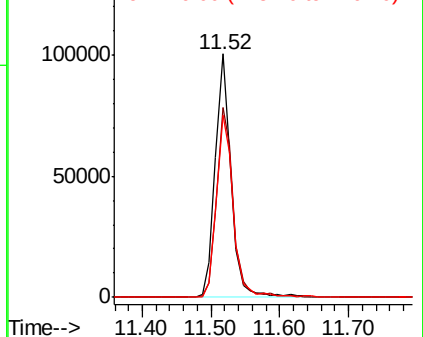
176 75.0 0.0 149.8



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: 50.00 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

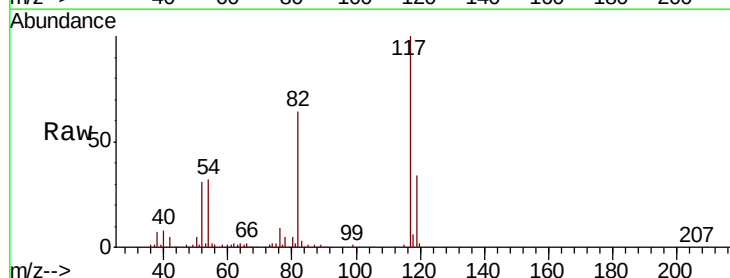
Tgt Ion: 117 Resp: 257521

Ion Ratio Lower Upper

117 100

82 64.0 51.3 76.9

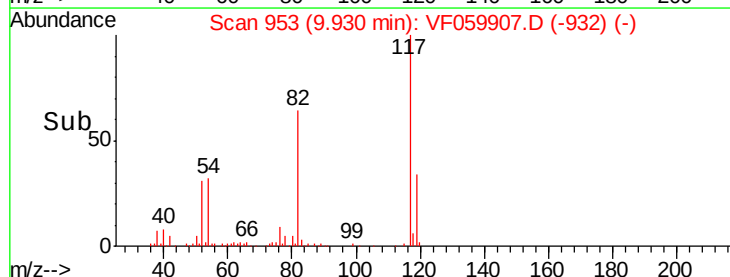
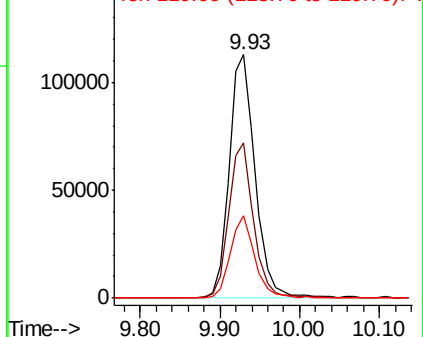
119 33.8 26.4 39.6

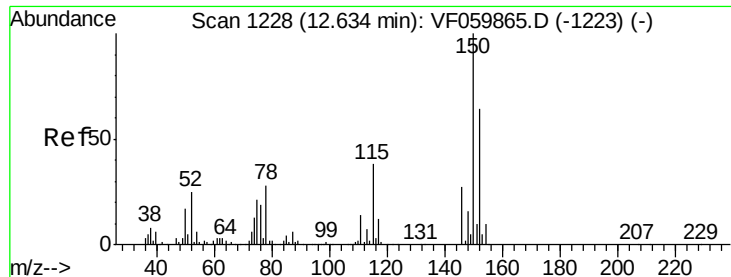


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

ClientSampleId :

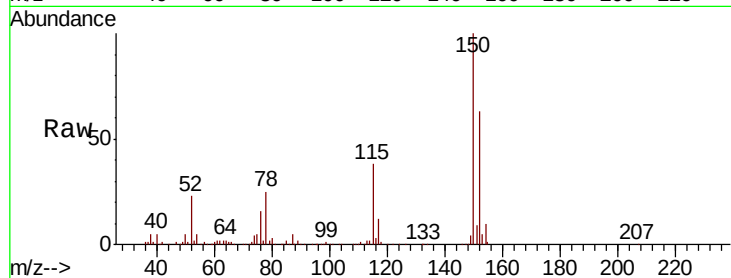
Tot Ion:152 Resp: 172216

Ion Ratio Lower Upper

152 100

115 60.1 29.8 89.4

150 157.8 0.0 315.6

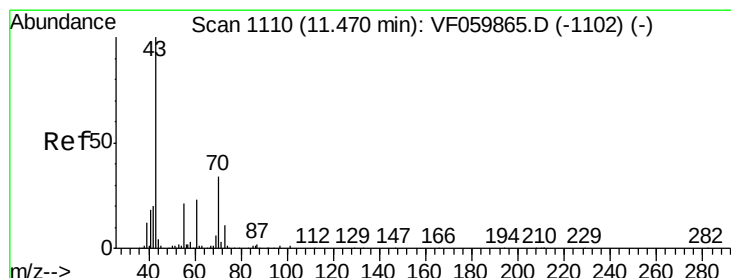
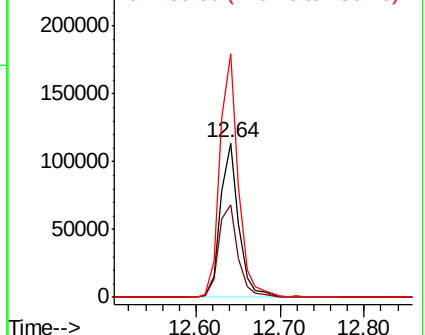
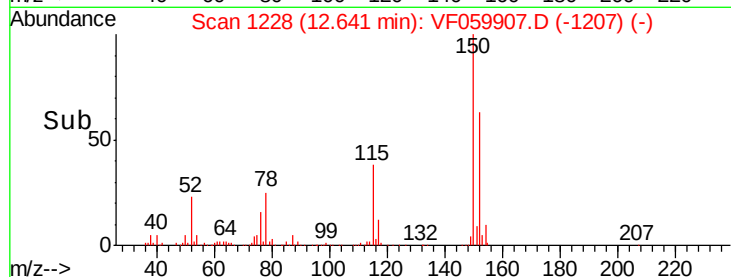


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-amil acetate

Concen: 3.32 ug/l

RT: 11.56 min Scan# 1118

Delta R.T. 0.09 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Tgt Ion: 43 Resp: 1012

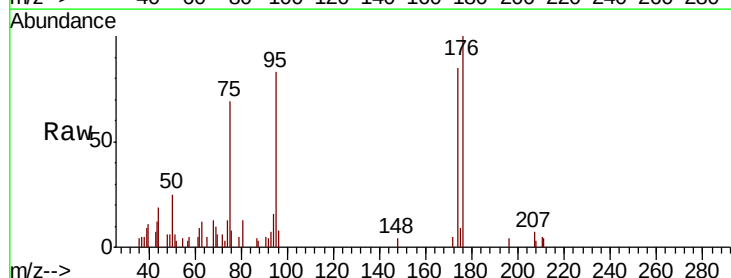
Ion Ratio Lower Upper

43 100

70 29.8 27.5 41.3

55 20.0 16.6 25.0

61 26.1 18.2 27.4



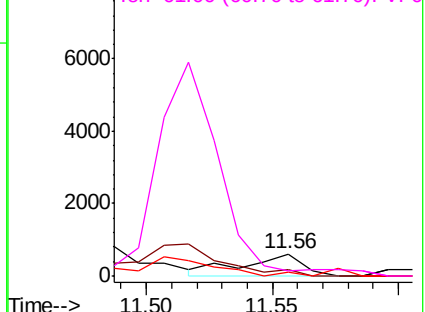
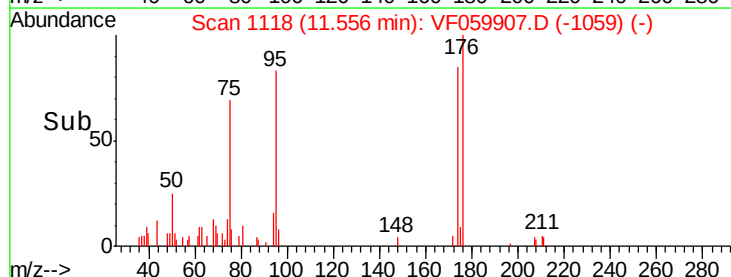
Abundance

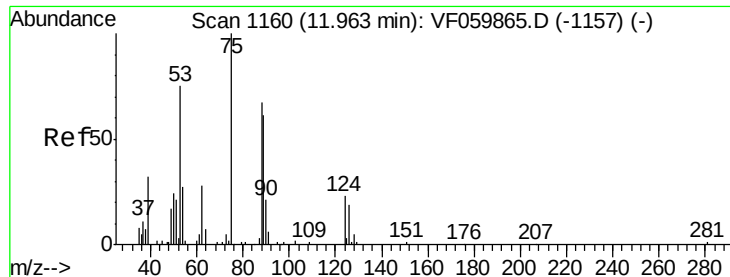
Ion 43.00 (42.70 to 43.70): VF0

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





#81

trans-1,4-Dichloro-2-butene

Concen: 1.51 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VF059907.D

Acq: 7 Aug 2018 7:09

Instrument :

MSVOA_F

ClientSampleId :

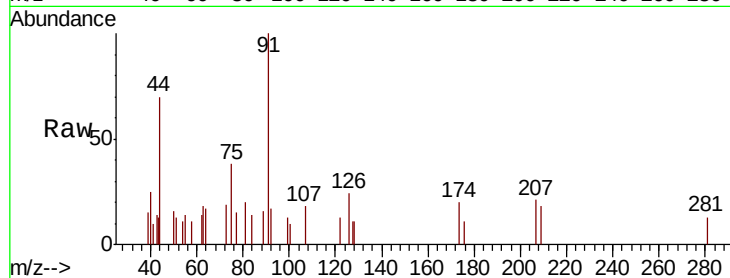
Tot Ion: 75 Resp: 936

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

89 41.6 50.6 76.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

