

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF061818\
 Data File : VF059172.D
 Acq On : 18 Jun 2018 13:38
 Operator : VA/AP
 Sample : J3240-03
 Misc : 5.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-061518

Quant Time: Jun 19 02:55:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	185106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	276071	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	234737	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	96888	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	159073	70.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	141.72%	
35) Dibromofluoromethane	4.29	113	133679	69.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.02%	
50) Toluene-d8	7.71	98	324165	56.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.92%	
62) 4-Bromofluorobenzene	11.50	95	127723	43.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.52%	

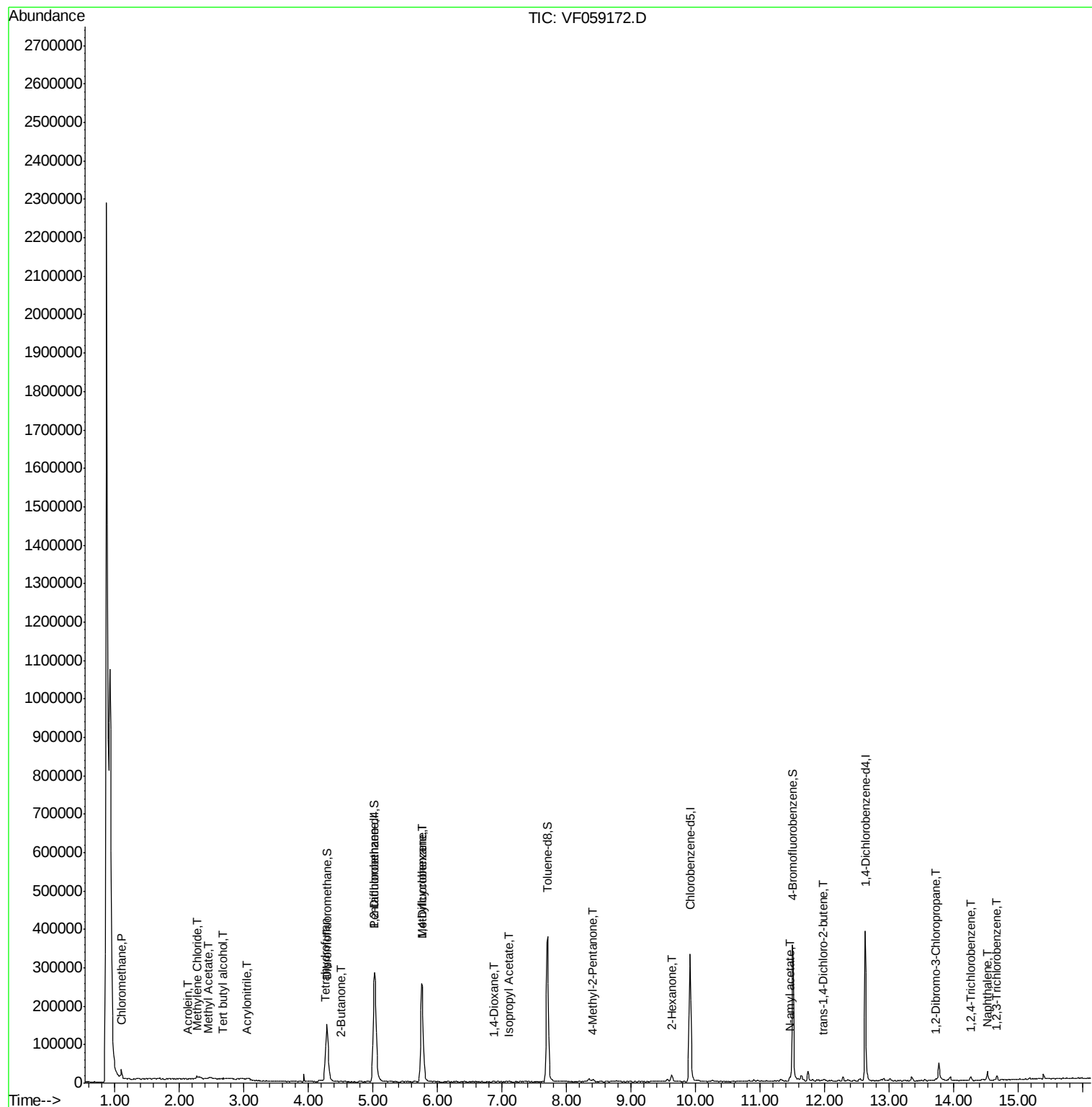
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1694	1.044	ug/l #	72
11) Tert butyl alcohol	2.69	59	587	4.081	ug/l #	1
13) Acrolein	2.14	56	499	4.008	ug/l	94
15) Acrylonitrile	3.06	53	480	1.680	ug/l #	16
18) Methyl Acetate	2.45	43	3449	3.743	ug/l #	88
20) Methylene Chloride	2.28	84	5778	4.502	ug/l #	57
25) 2-Butanone	4.51	43	1503	1.809	ug/l #	56
29) Tetrahydrofuran	4.26	42	1496	4.086	ug/l #	82
39) Methylcyclohexane	5.75	83	4166	1.527	ug/l #	40
43) Isopropyl Acetate	7.10	43	2485	1.122	ug/l #	80
49) 1,4-Dioxane	6.88	88	274	37.554	ug/l #	48
51) 4-Methyl-2-Pentanone	8.40	43	5213	3.435	ug/l	95
59) 2-Hexanone	9.63	43	15203	12.664	ug/l	98
74) N-amyl acetate	11.46	43	7013	2.927	ug/l #	90
81) trans-1,4-Dichloro-2-buten	11.96	75	902	1.184	ug/l #	33
89) n-Butylbenzene	12.91	91	3476	Below Cal		84
92) 1,2-Dibromo-3-Chloropropan	13.71	75	477	1.529	ug/l	89
93) 1,2,4-Trichlorobenzene	14.26	180	2284	1.088	ug/l	96
95) Naphthalene	14.52	128	12007	2.677	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.67	180	2740	1.412	ug/l	83

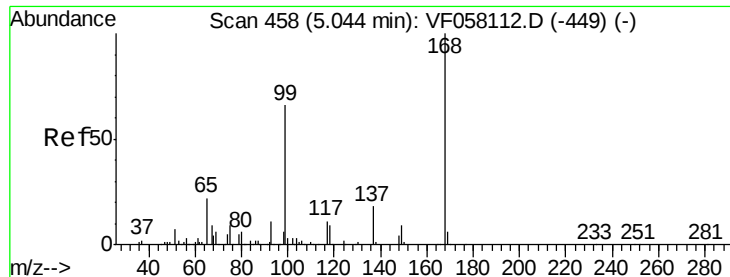
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 10:52:00 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

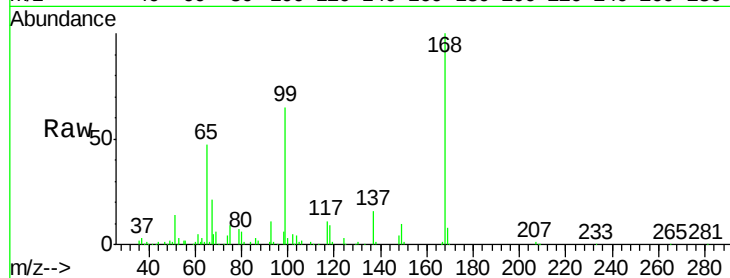
BU-01-061518

Tgt Ion: 168 Resp: 185106

Ion Ratio Lower Upper

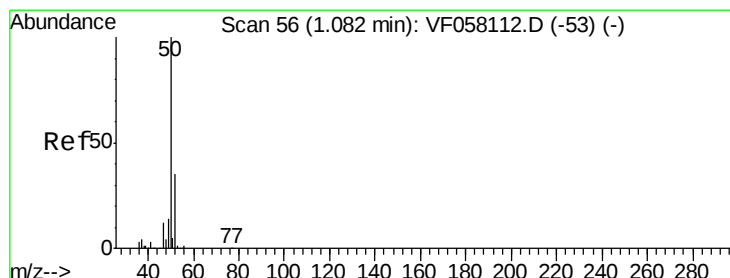
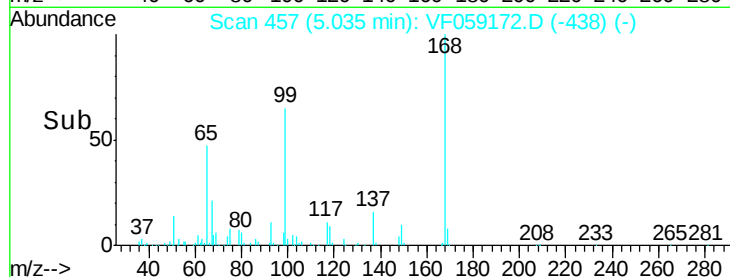
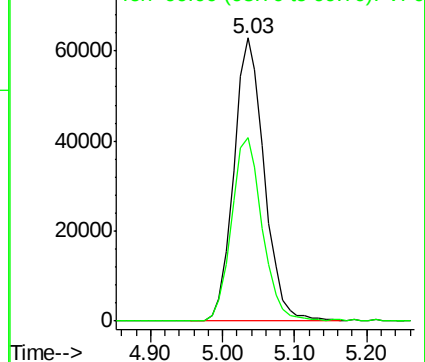
168 100

99 64.8 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.044 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059172.D

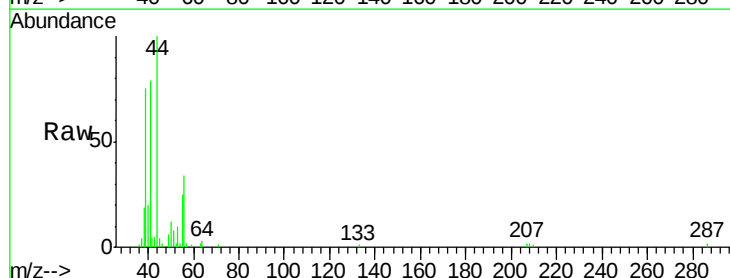
Acq: 18 Jun 2018 13:38

Tgt Ion: 50 Resp: 1694

Ion Ratio Lower Upper

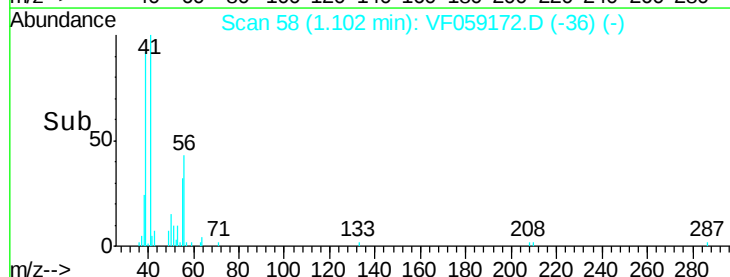
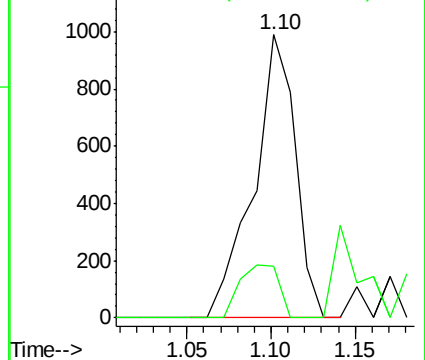
50 100

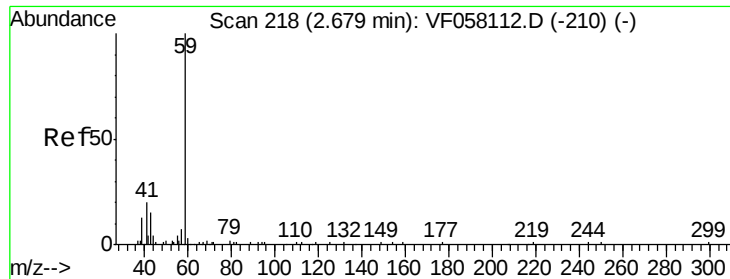
52 18.3 27.3 40.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

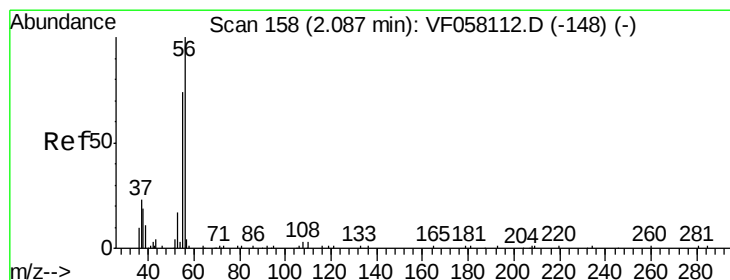
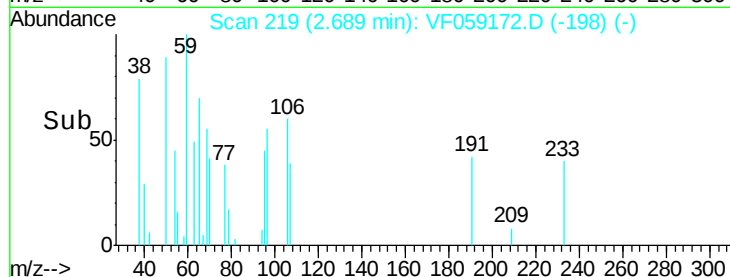
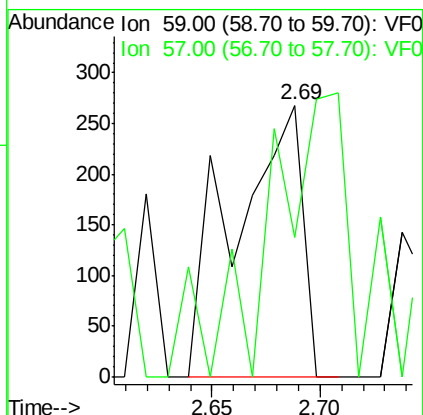
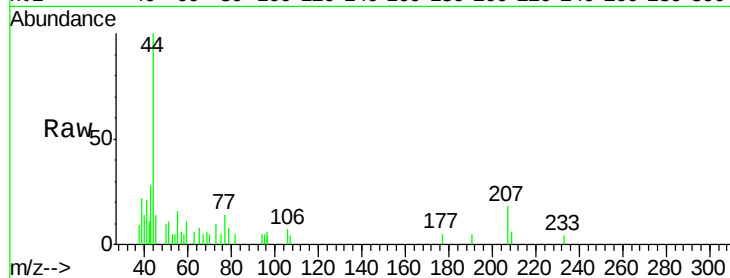




#11
Tert butyl alcohol
Concen: 4.081 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

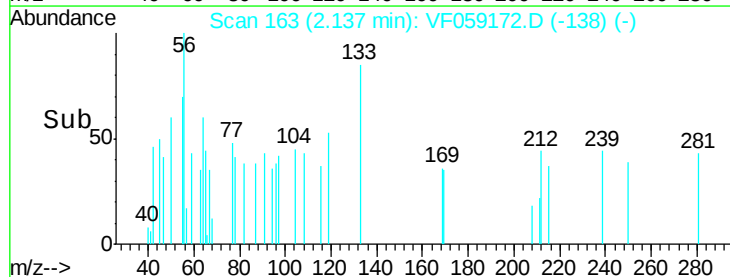
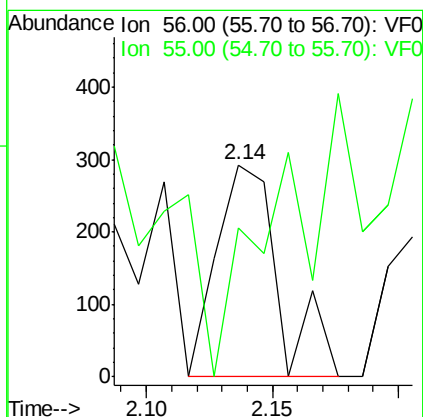
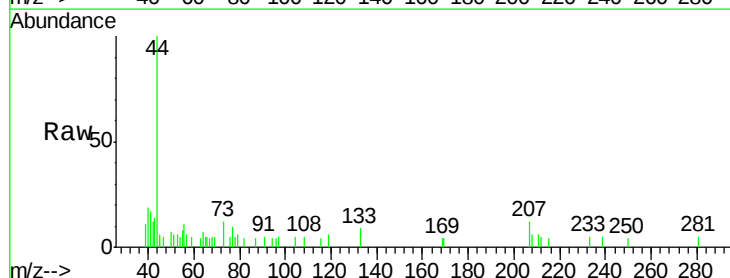
Instrument :
MSVOA_F
ClientSampleId :
BU-01-061518

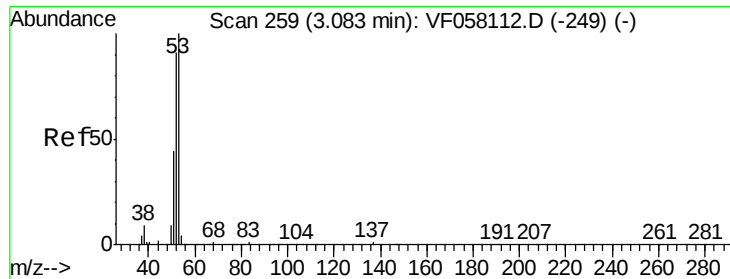
Tgt Ion: 59 Resp: 587
Ion Ratio Lower Upper
59 100
57 51.1 8.7 13.1#



#13
Acrolein
Concen: 4.008 ug/l
RT: 2.14 min Scan# 163
Delta R.T. 0.05 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

Tgt Ion: 56 Resp: 499
Ion Ratio Lower Upper
56 100
55 70.3 60.0 90.0





#15

Acrylonitrile

Concen: 1.680 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

BU-01-061518

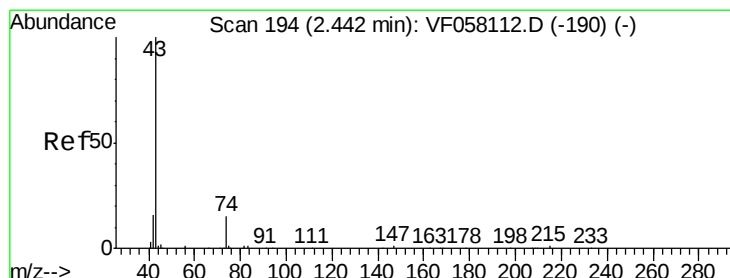
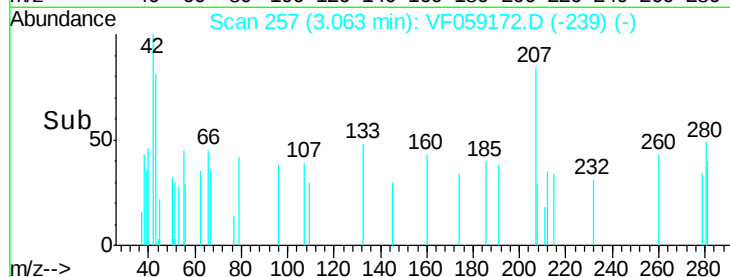
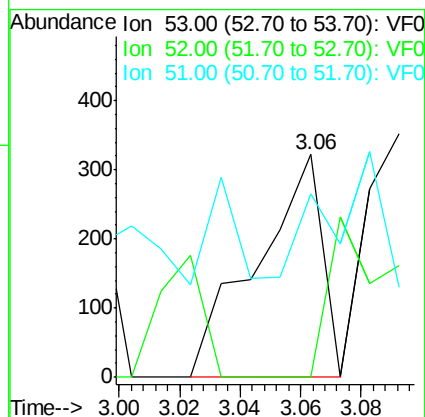
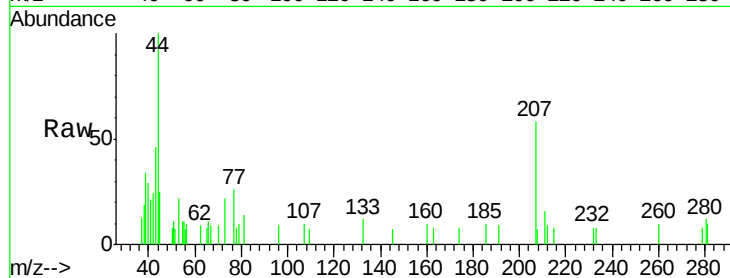
Tgt Ion: 53 Resp: 480

Ion Ratio Lower Upper

53 100

52 0.0 73.2 109.8#

51 82.6 35.6 53.4#



#18

Methyl Acetate

Concen: 3.743 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059172.D

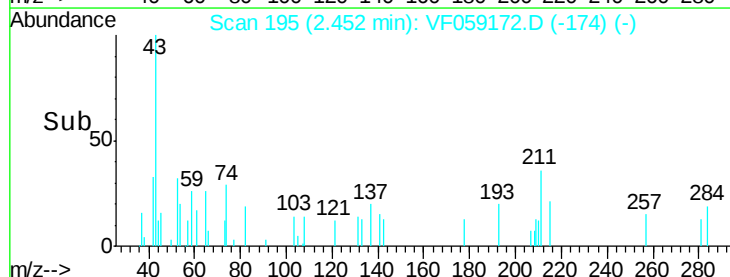
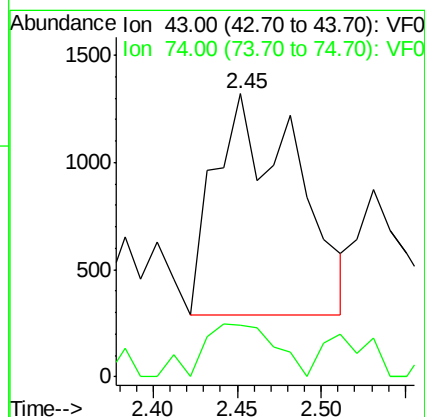
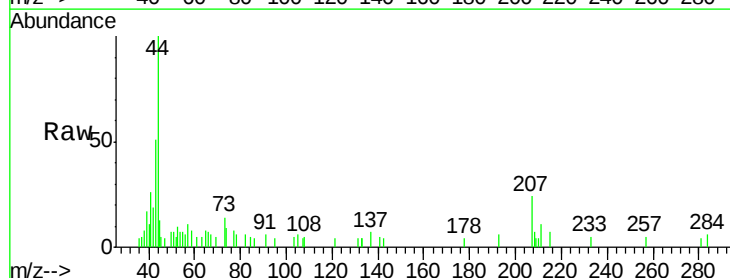
Acq: 18 Jun 2018 13:38

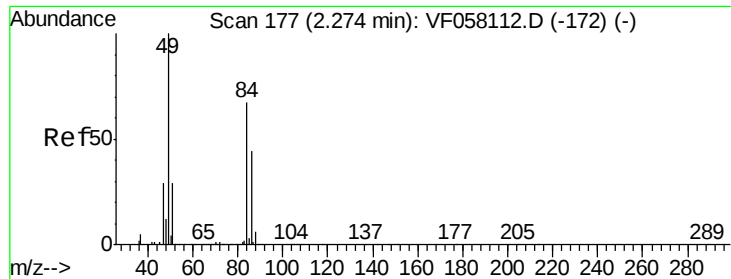
Tgt Ion: 43 Resp: 3449

Ion Ratio Lower Upper

43 100

74 18.4 10.9 16.3#

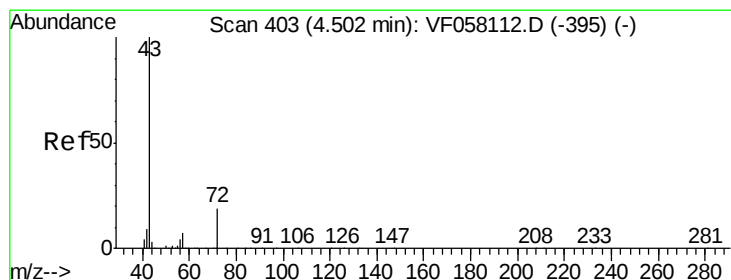
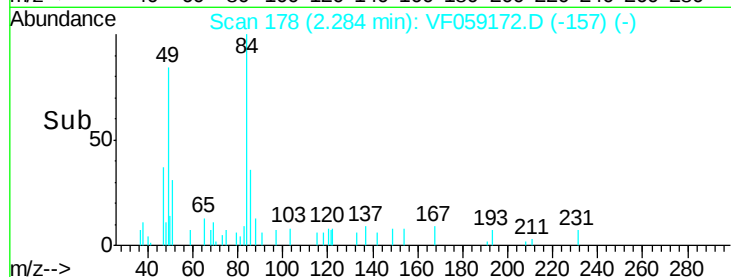
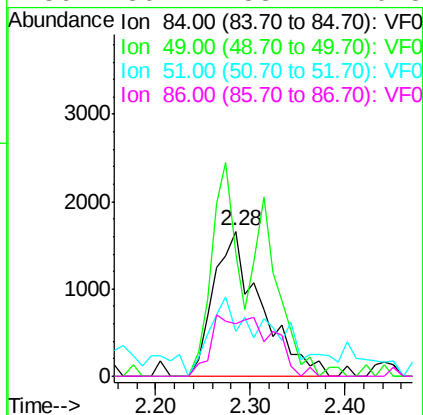
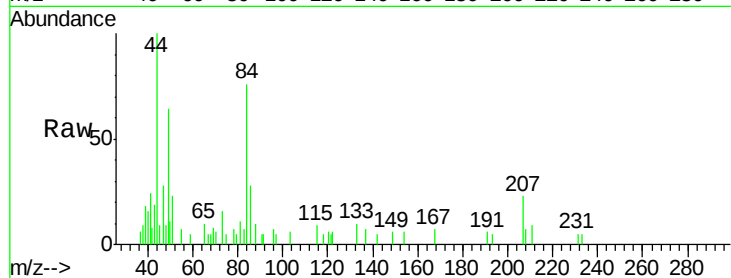




#20
Methylene Chloride
Concen: 4.502 ug/l
RT: 2.28 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

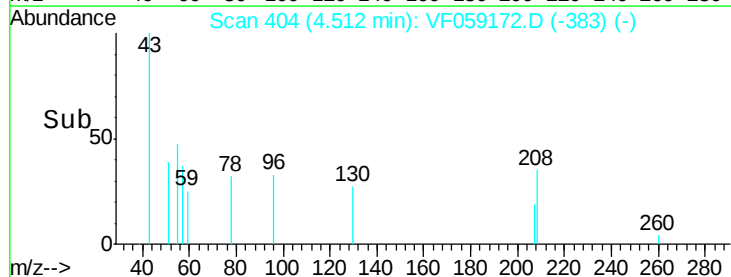
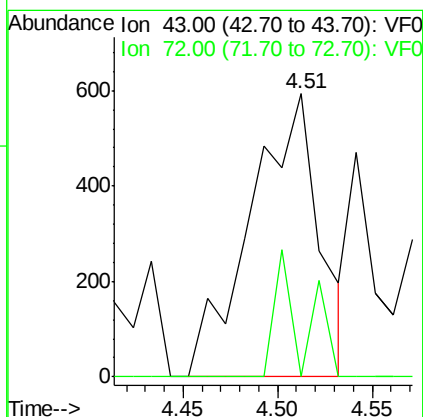
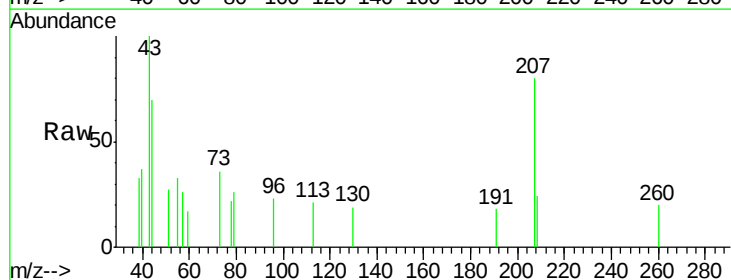
Instrument :
MSVOA_F
ClientSampleId :
BU-01-061518

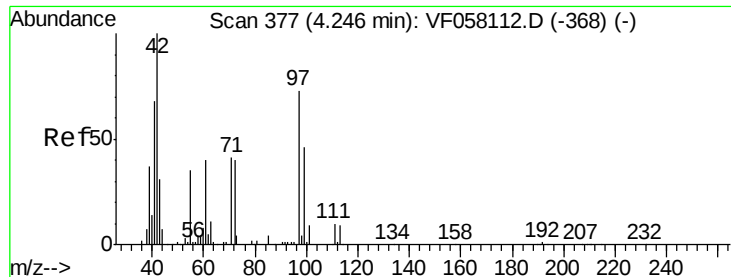
Tgt Ion: 84 Resp: 5778
Ion Ratio Lower Upper
84 100
49 84.5 121.0 181.4#
51 30.7 35.8 53.6#
86 36.4 53.2 79.8#



#25
2-Butanone
Concen: 1.809 ug/l
RT: 4.51 min Scan# 404
Delta R.T. 0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#





#29

Tetrahydrofuran

Concen: 4.086 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

BU-01-061518

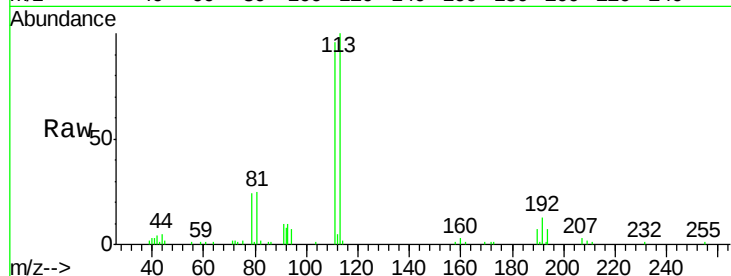
Tgt Ion: 42 Resp: 1496

Ion Ratio Lower Upper

42 100

72 53.7 30.5 45.7#

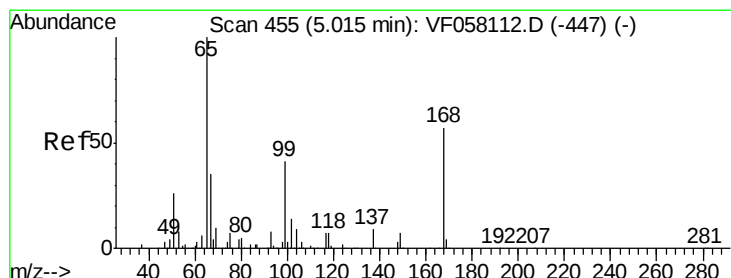
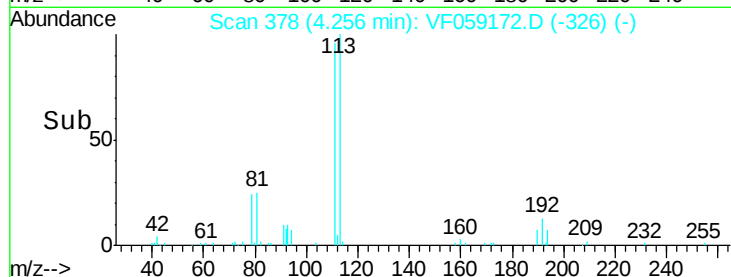
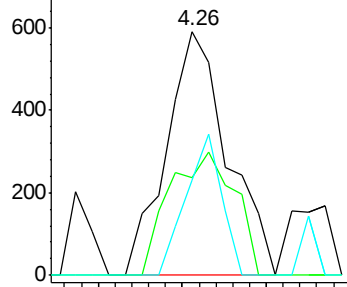
71 33.6 31.5 47.3



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: 70.858 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.00 min

Lab File: VF059172.D

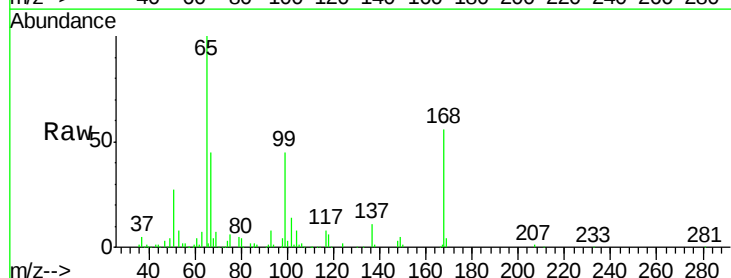
Acq: 18 Jun 2018 13:38

Tgt Ion: 65 Resp: 159073

Ion Ratio Lower Upper

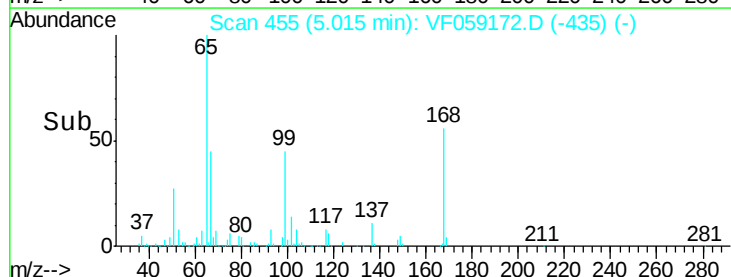
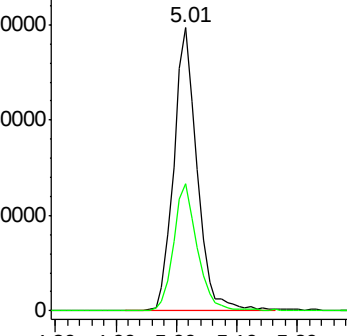
65 100

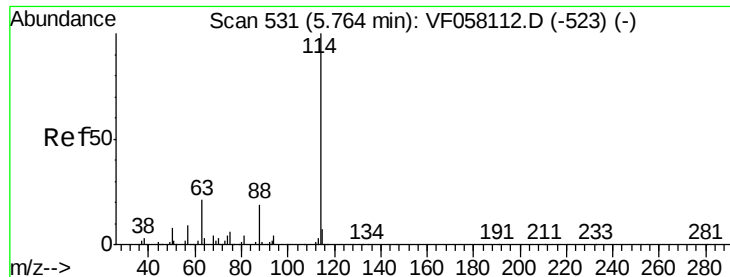
67 45.1 0.0 97.0



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: 5.76 min Scan# 531

Delta R.T. 0.00 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

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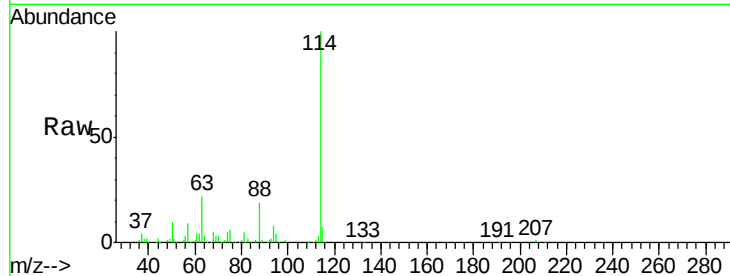
Tgt Ion:114 Resp: 276071

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.6

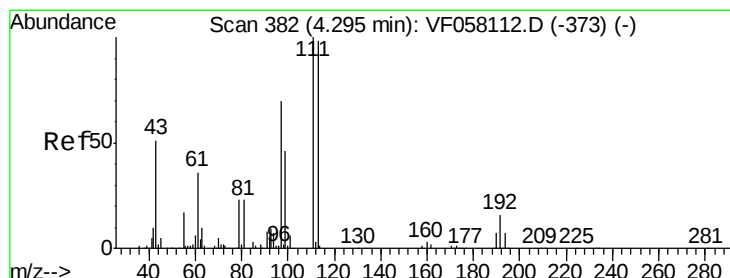
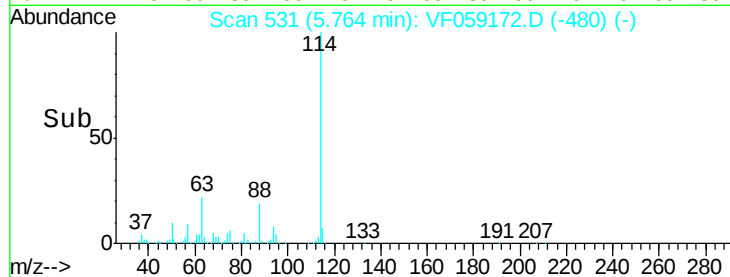
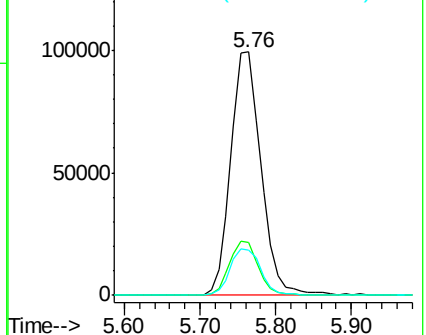
88 18.7 0.0 38.8



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: 69.009 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

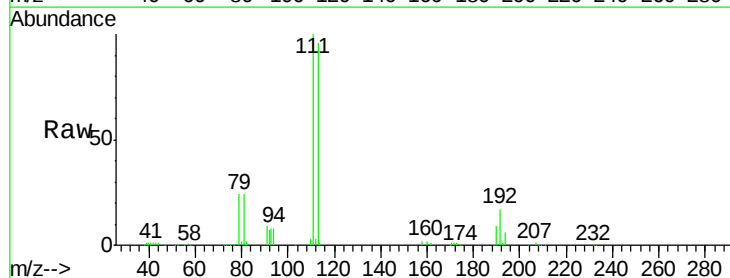
Tgt Ion:113 Resp: 133679

Ion Ratio Lower Upper

113 100

111 104.2 81.3 121.9

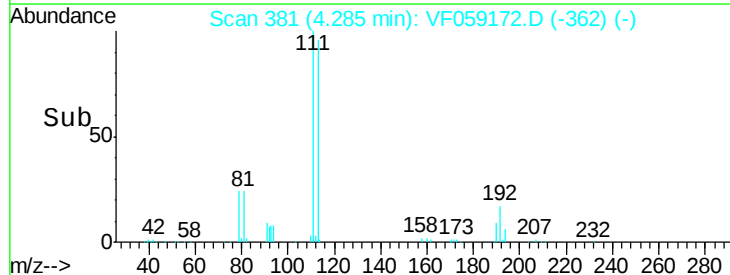
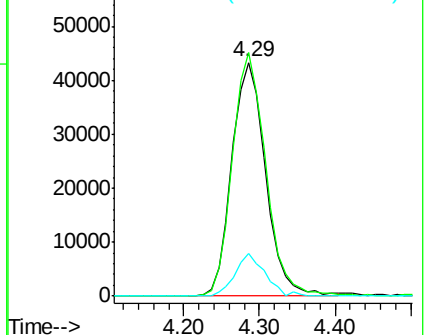
192 18.1 12.7 19.1

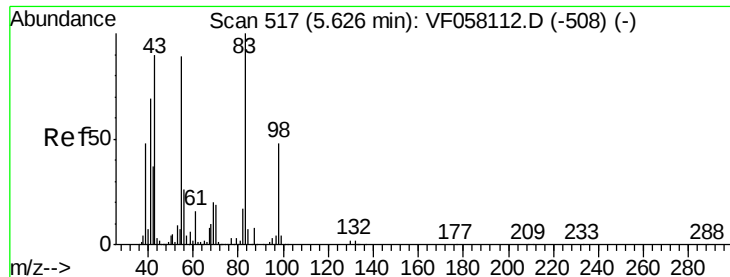


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

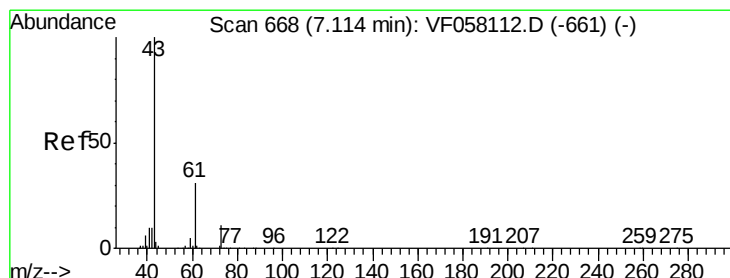
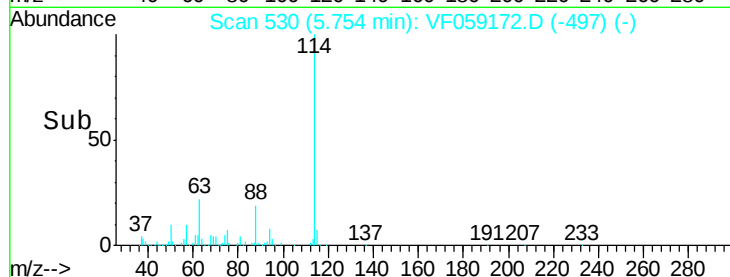
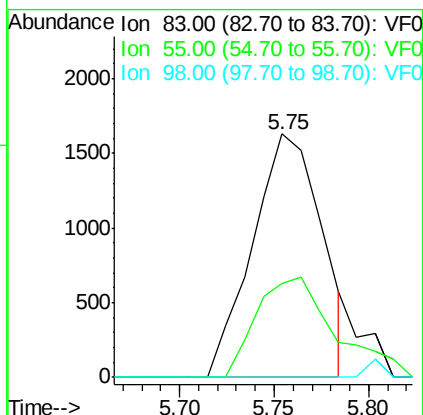
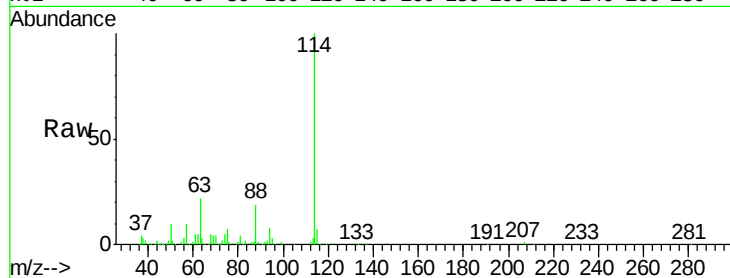




#39
Methylcyclohexane
Concen: 1.527 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.13 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

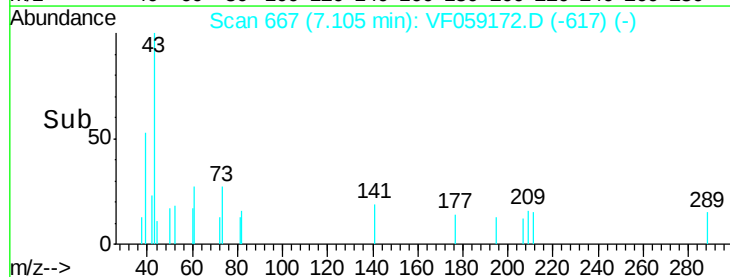
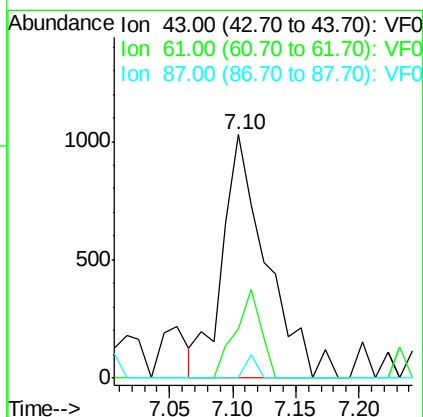
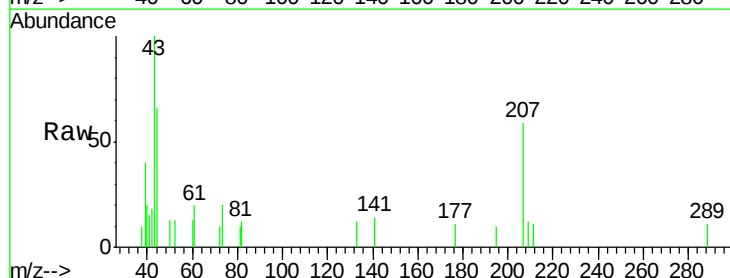
Instrument :
MSVOA_F
ClientSampleId :
BU-01-061518

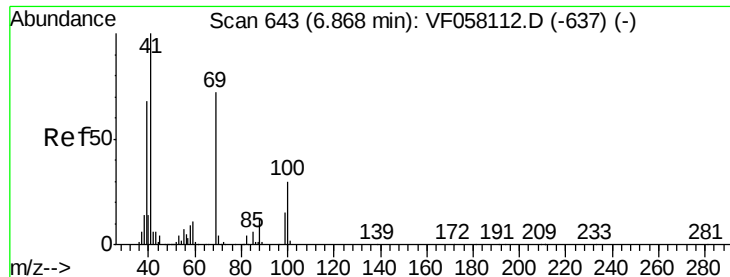
Tgt Ion: 83 Resp: 4166
Ion Ratio Lower Upper
83 100
55 38.7 71.0 106.4#
98 0.0 38.1 57.1#



#43
Isopropyl Acetate
Concen: 1.122 ug/l
RT: 7.10 min Scan# 667
Delta R.T. -0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

Tgt Ion: 43 Resp: 2485
Ion Ratio Lower Upper
43 100
61 20.2 25.1 37.7#
87 0.0 0.2 0.4#

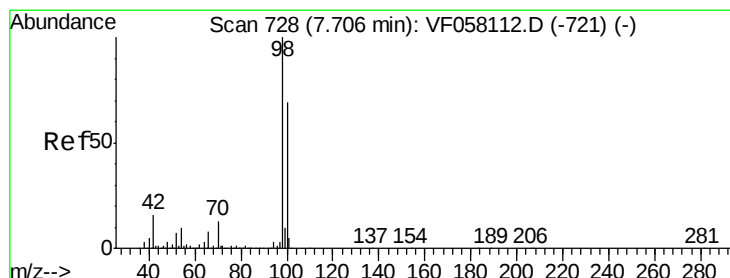
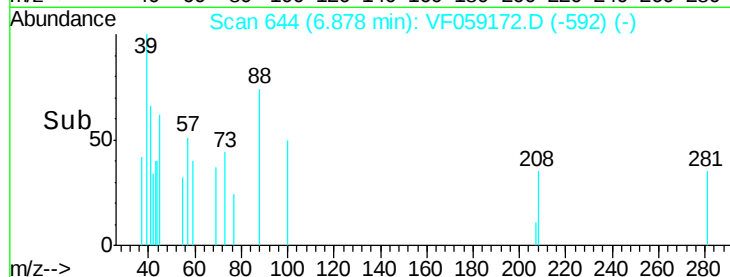
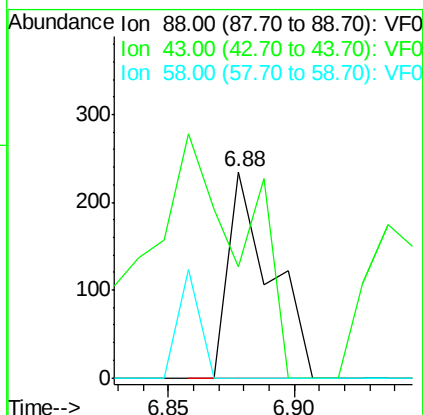
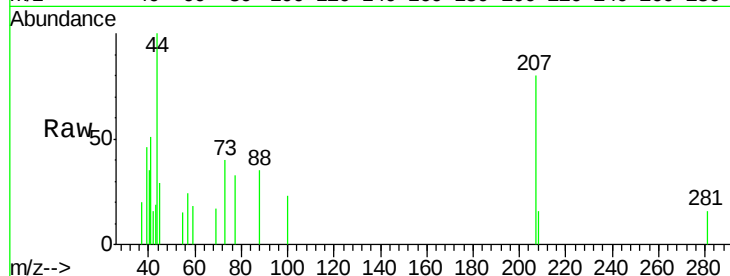




#49
1,4-Dioxane
Concen: 37.554 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

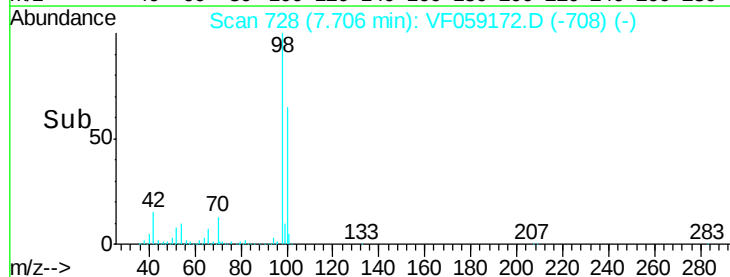
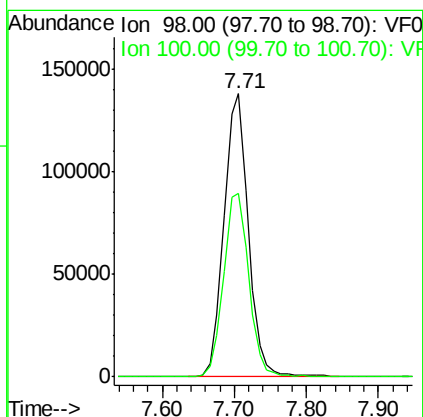
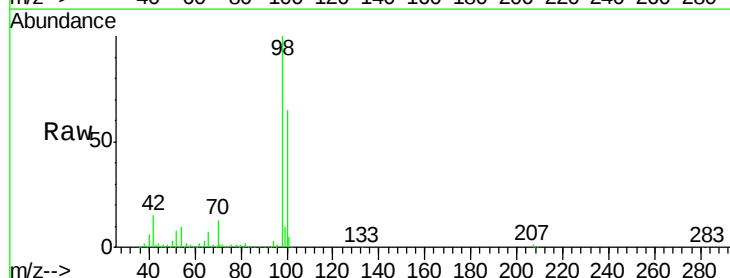
Instrument :
MSVOA_F
ClientSampleId :
BU-01-061518

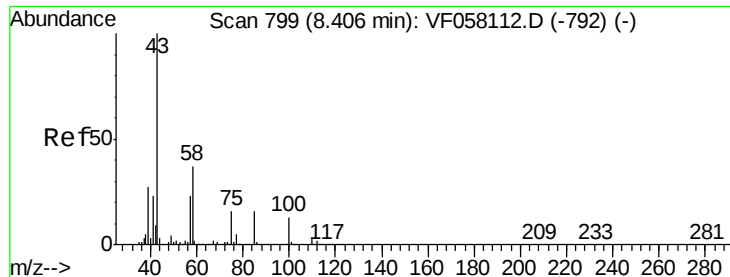
Tgt Ion: 88 Resp: 274
Ion Ratio Lower Upper
88 100
43 53.6 47.8 71.8
58 0.0 59.4 89.0#



#50
Toluene-d8
Concen: 56.962 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

Tgt Ion: 98 Resp: 324165
Ion Ratio Lower Upper
98 100
100 64.9 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 3.435 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

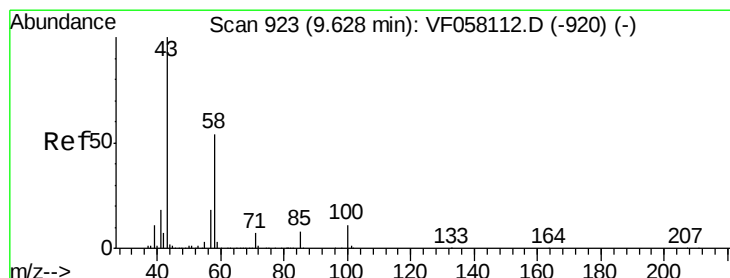
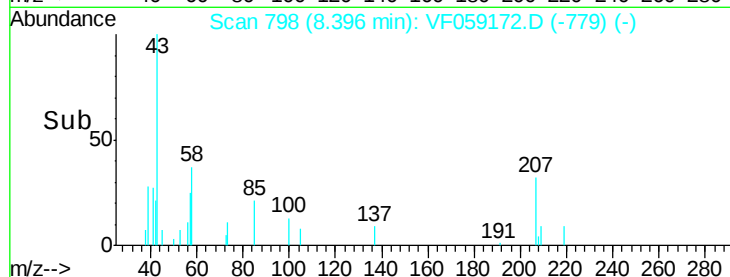
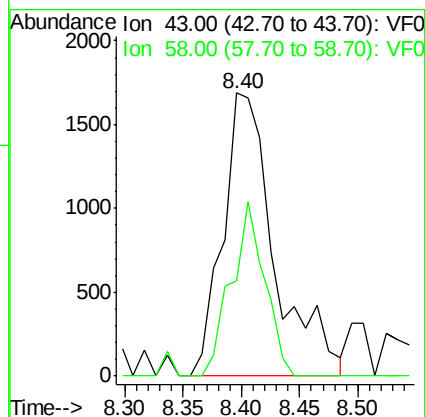
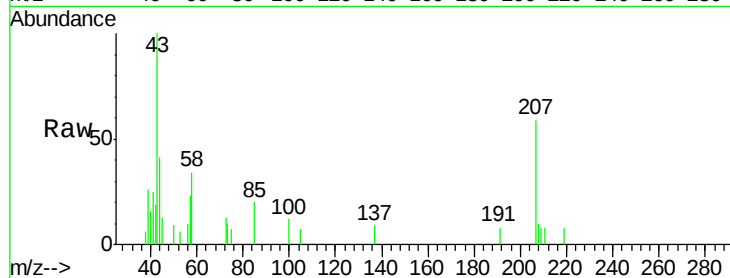
BU-01-061518

Tgt Ion: 43 Resp: 5213

Ion Ratio Lower Upper

43 100

58 33.8 29.4 44.0



#59

2-Hexanone

Concen: 12.664 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.00 min

Lab File: VF059172.D

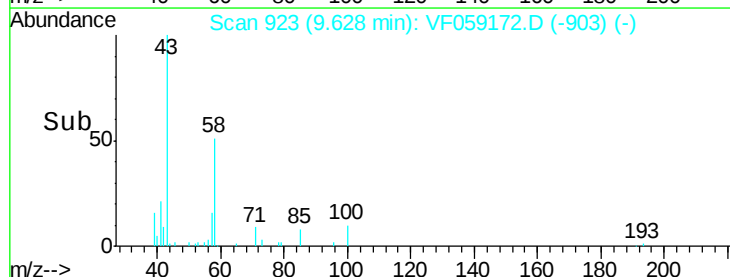
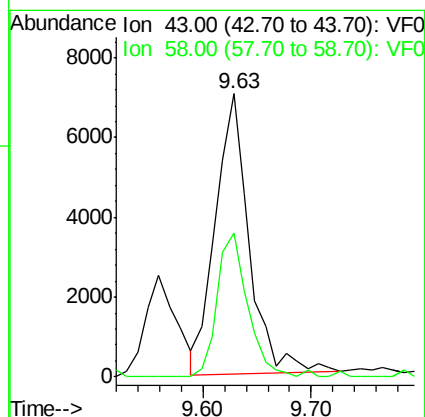
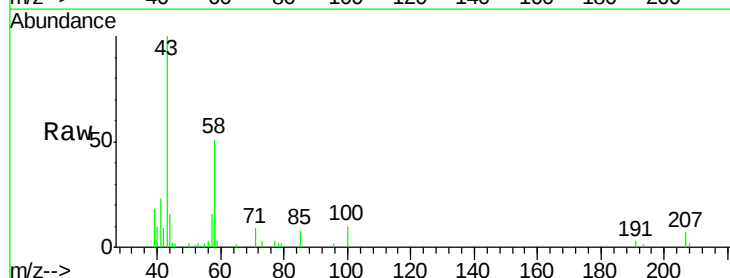
Acq: 18 Jun 2018 13:38

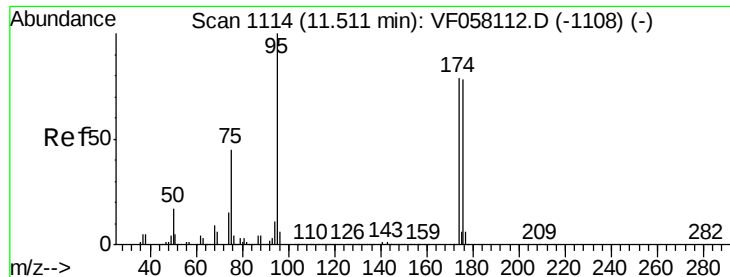
Tgt Ion: 43 Resp: 15203

Ion Ratio Lower Upper

43 100

58 50.8 26.3 78.8

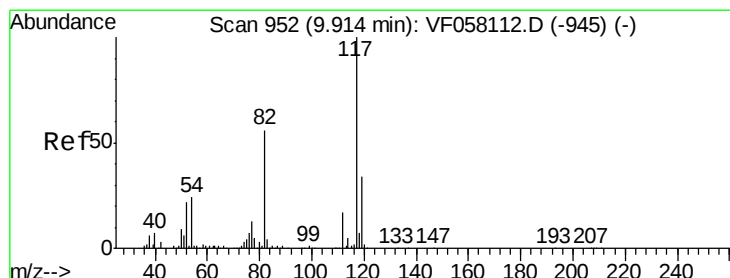
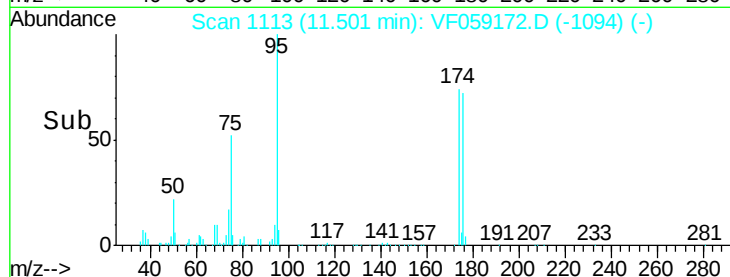
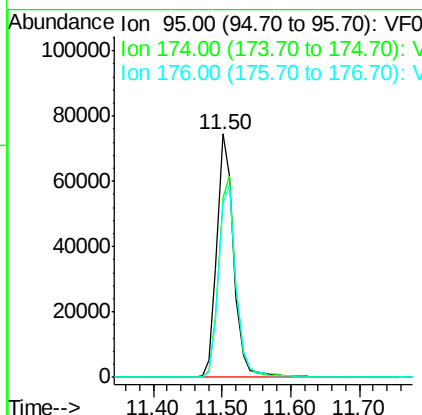
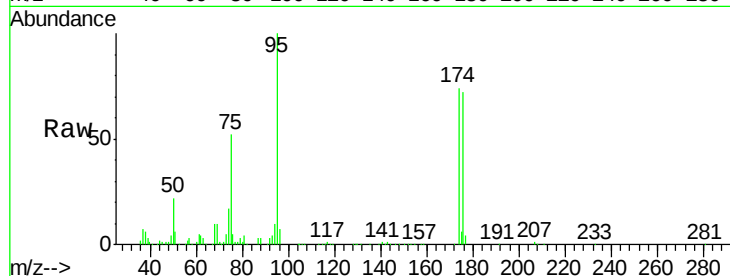




#62
4-Bromofluorobenzene
Concen: 43.758 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

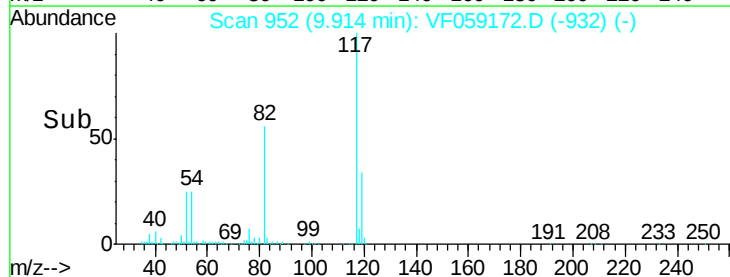
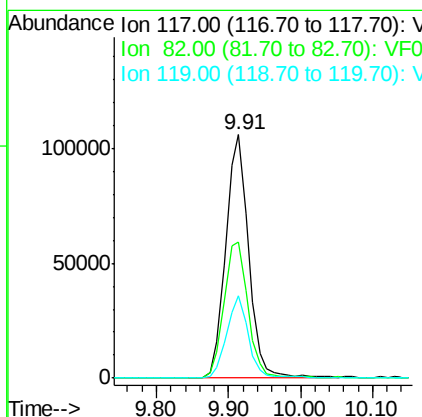
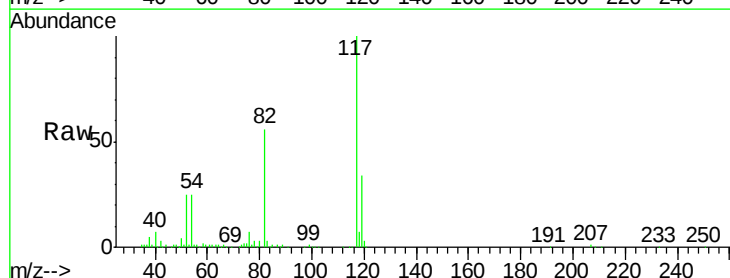
Instrument :
MSVOA_F
ClientSampleId :
BU-01-061518

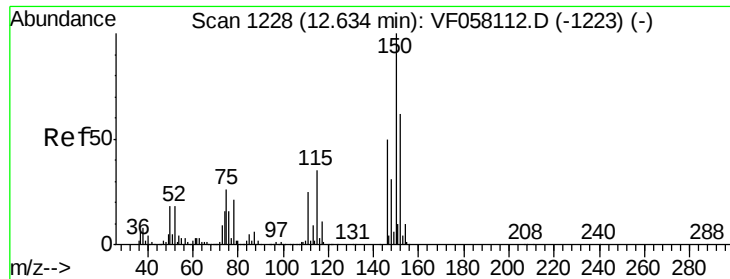
Tgt Ion: 95 Resp: 127723
Ion Ratio Lower Upper
95 100
174 73.7 0.0 157.8
176 71.7 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059172.D
Acq: 18 Jun 2018 13:38

Tgt Ion: 117 Resp: 234737
Ion Ratio Lower Upper
117 100
82 55.9 45.2 67.8
119 33.9 27.5 41.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

BU-01-061518

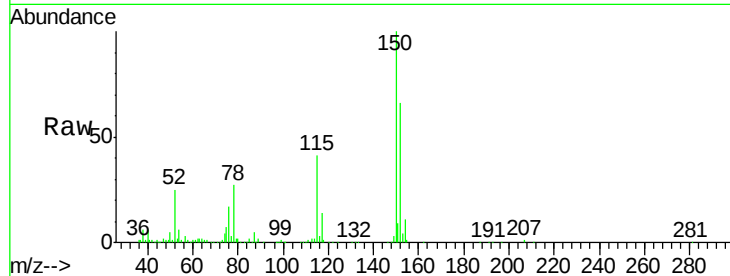
Tgt Ion:152 Resp: 96888

Ion Ratio Lower Upper

152 100

115 61.9 28.5 85.5

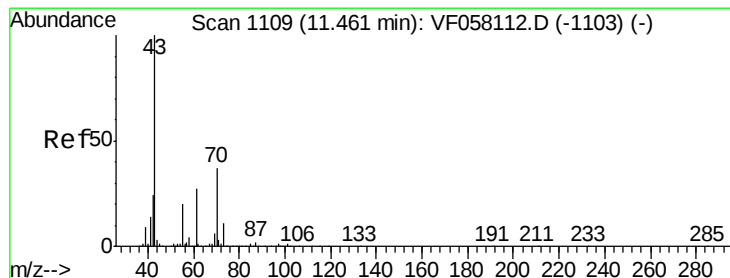
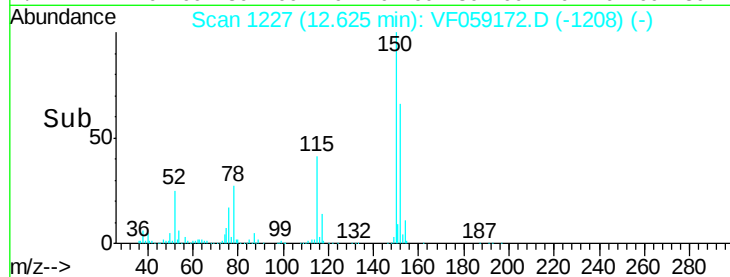
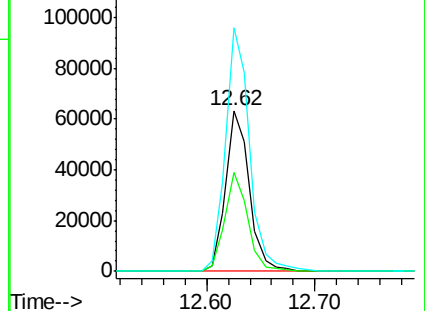
150 151.7 0.0 323.8



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: 2.927 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Tgt Ion: 43 Resp: 7013

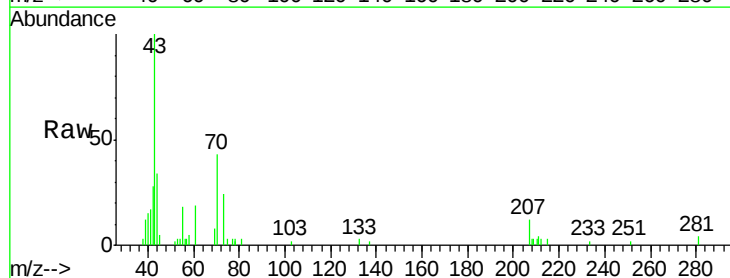
Ion Ratio Lower Upper

43 100

70 43.2 29.2 43.8

55 18.2 15.8 23.6

61 19.1 21.3 31.9#

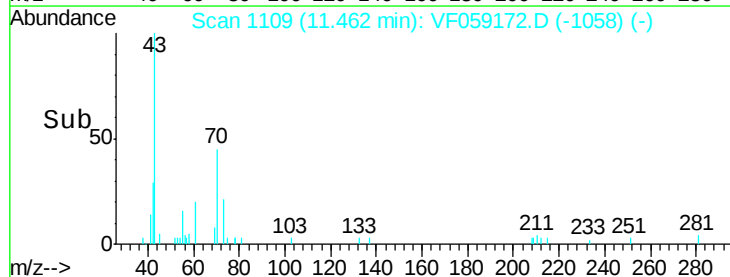
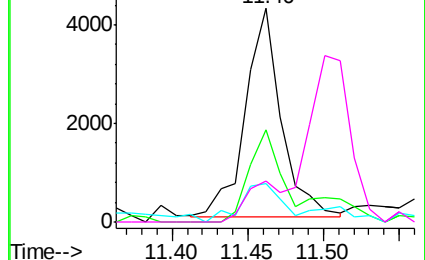


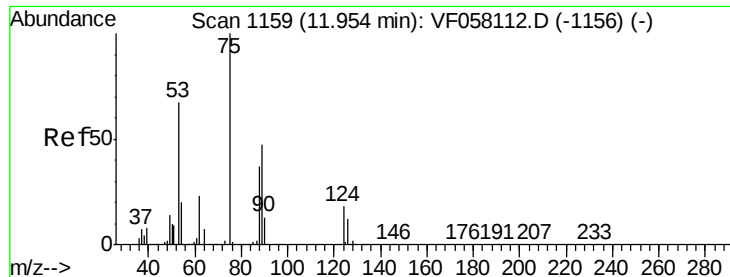
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 1.184 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

BU-01-061518

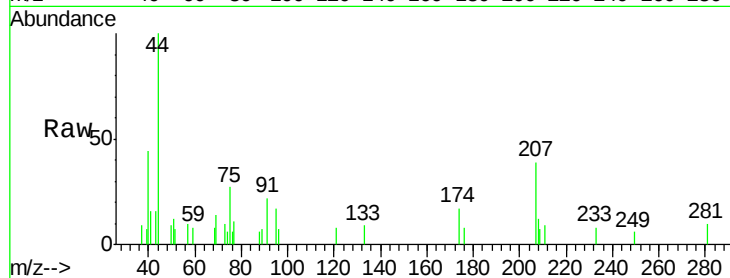
Tgt Ion: 75 Resp: 902

Ion Ratio Lower Upper

75 100

53 0.0 58.7 88.1#

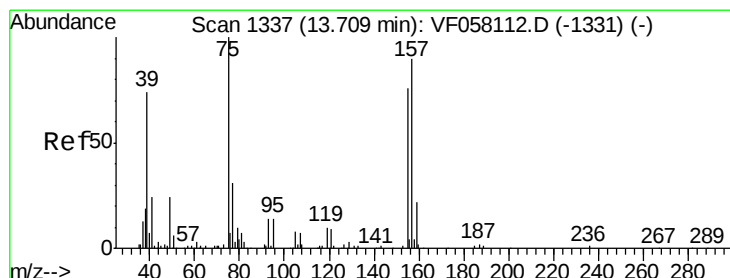
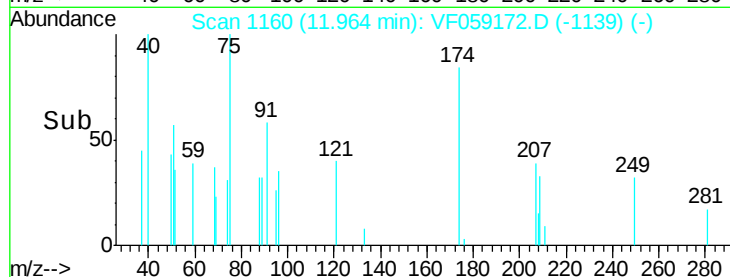
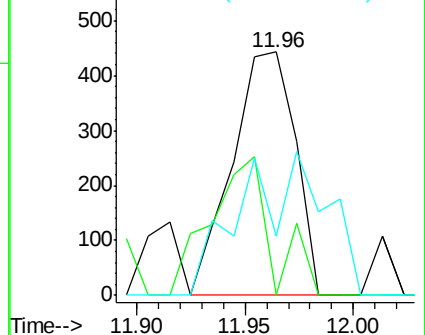
89 24.6 39.8 59.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.529 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

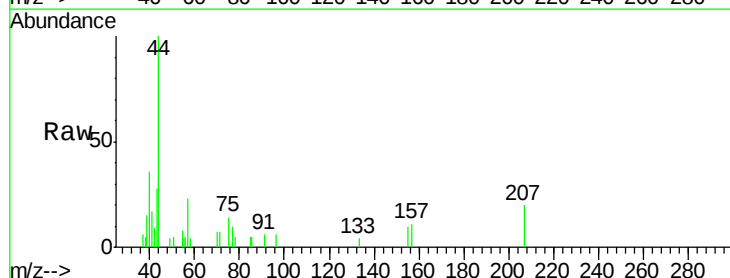
Tgt Ion: 75 Resp: 477

Ion Ratio Lower Upper

75 100

155 69.9 38.0 114.0

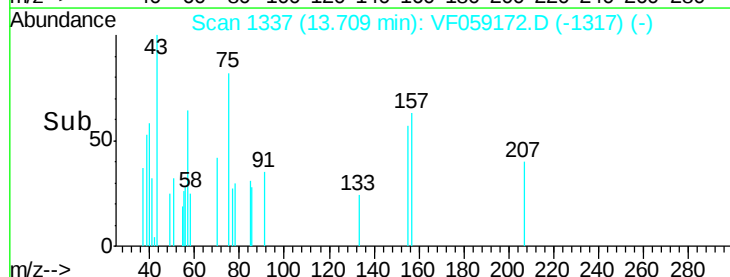
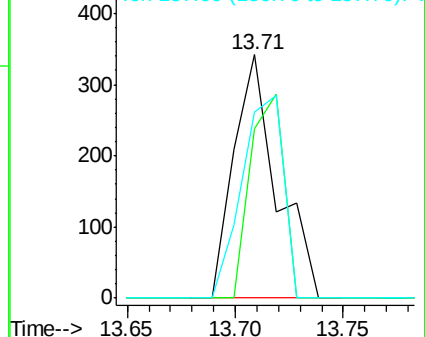
157 76.6 45.1 135.5

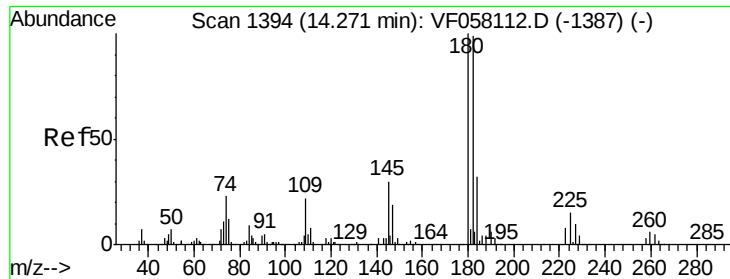


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

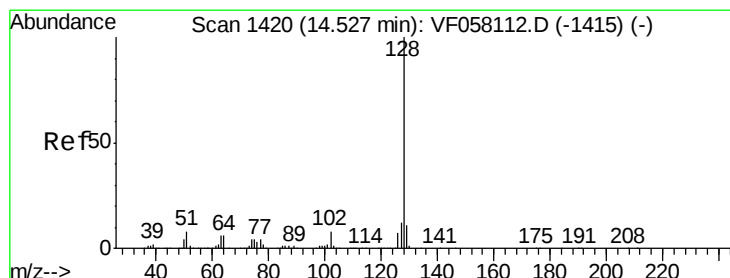
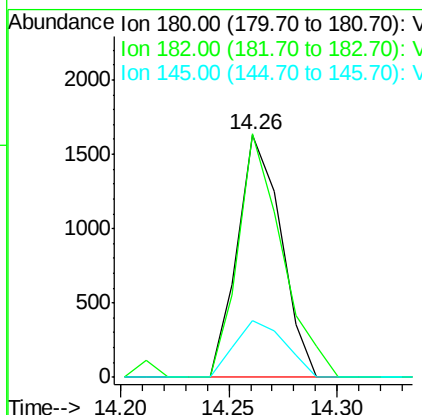
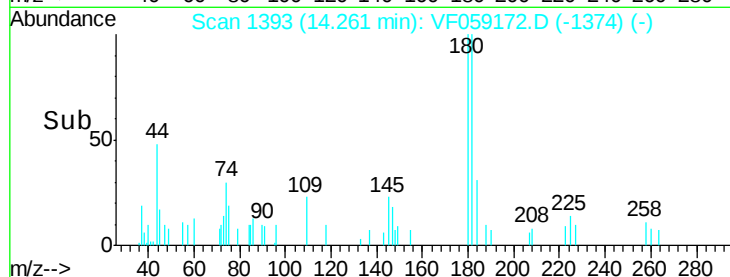
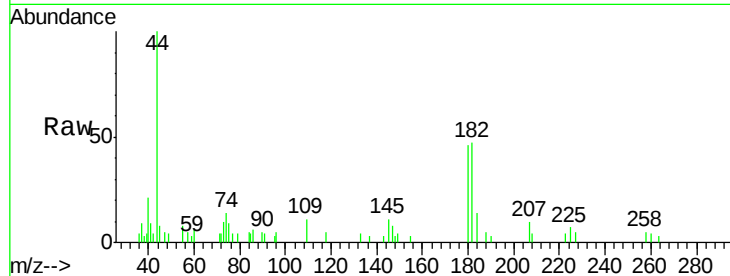




#93
 1,2,4-Trichlorobenzene
 Concen: 1.088 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059172.D
 Acq: 18 Jun 2018 13:38

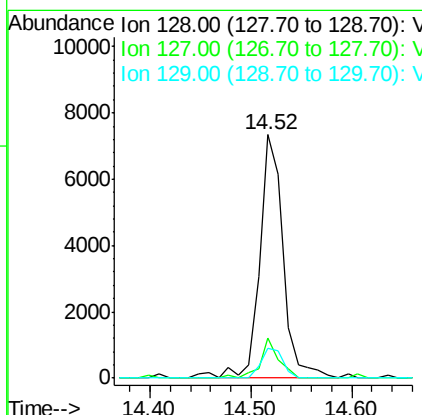
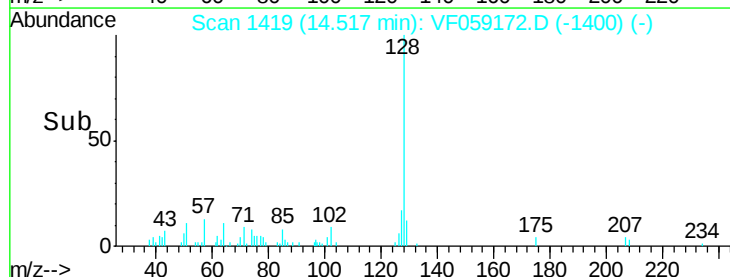
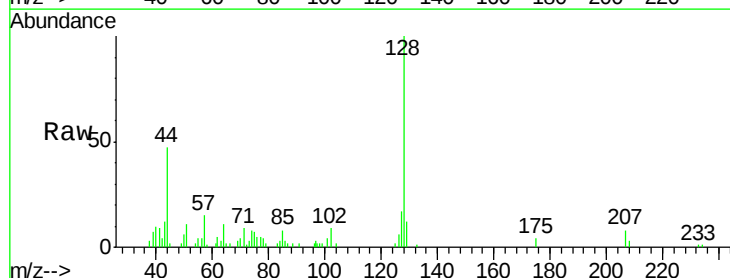
Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-061518

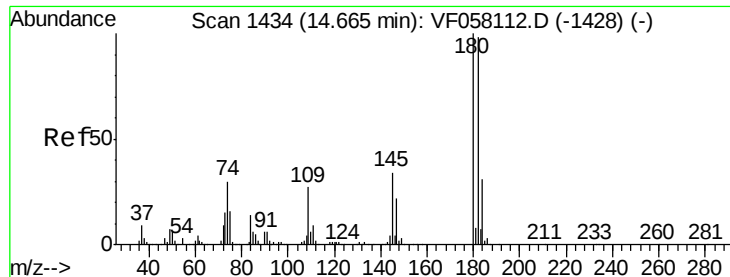
Tgt Ion:180 Resp: 2284
 Ion Ratio Lower Upper
 180 100
 182 100.3 49.3 147.9
 145 23.2 14.9 44.9



#95
 Naphthalene
 Concen: 2.677 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: VF059172.D
 Acq: 18 Jun 2018 13:38

Tgt Ion:128 Resp: 12007
 Ion Ratio Lower Upper
 128 100
 127 16.6 9.9 14.9#
 129 12.1 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 1.412 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VF059172.D

Acq: 18 Jun 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

BU-01-061518

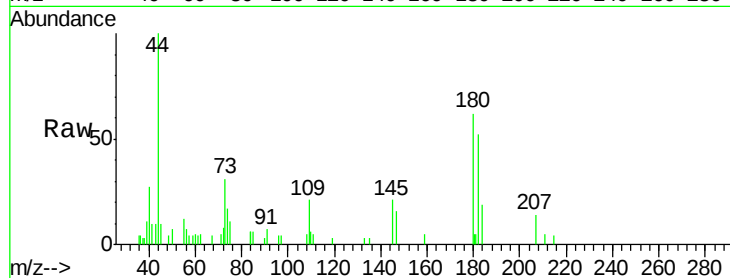
Tgt Ion:180 Resp: 2740

Ion Ratio Lower Upper

180 100

182 76.9 48.9 146.6

145 31.4 17.3 51.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

