

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081718\
 Data File : VF059992.D
 Acq On : 18 Aug 2018 00:57
 Operator : VA/AP
 Sample : J4501-07RE
 Misc : 5.03g/5mL/MSVOA F/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-SSW-45-022RE

Quant Time: Aug 18 01:42:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 18 01:11:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.97	168	95	50.00	ug/l	-0.09
34) 1,4-Difluorobenzene	5.59	114	65	50.00	ug/l	-0.19
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.93
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
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	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

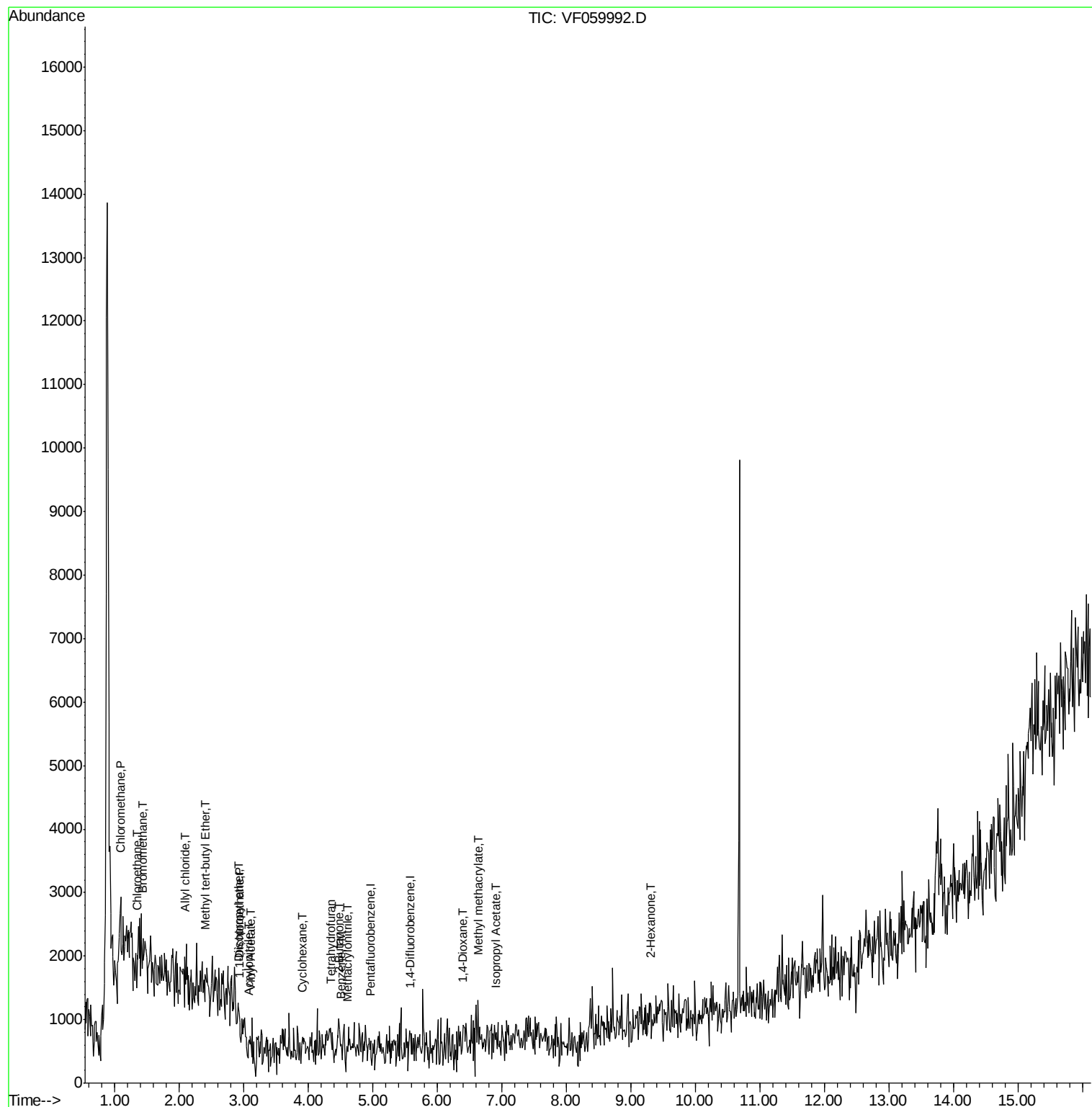
						Qvalue
3) Chloromethane	1.09	50	235	324.21	ug/l #	45
5) Bromomethane	1.44	94	60	70.53	ug/l #	3
6) Chloroethane	1.35	64	513	1026.84	ug/l #	44
14) Allyl chloride	2.09	41	121	79.86	ug/l #	66
15) Acrylonitrile	3.08	53	71	410.87	ug/l #	11
19) Methyl tert-butyl Ether	2.40	73	76	25.86	ug/l #	60
22) Diisopropyl ether	2.93	45	62	19.14	ug/l #	37
23) Vinyl Acetate	3.11	43	165	126.47	ug/l #	84
24) 1,1-Dichloroethane	2.94	63	260	122.34	ug/l #	90
25) 2-Butanone	4.46	43	65	146.63	ug/l #	63
29) Tetrahydrofuran	4.35	42	138	872.25	ug/l #	61
31) Cyclohexane	3.90	56	128	131.57	ug/l #	15
40) Benzene	4.50	78	61	48.68	ug/l #	51
41) Methacrylonitrile	4.60	41	60	306.25	ug/l #	19
43) Isopropyl Acetate	6.91	43	66	146.53	ug/l #	58
48) Methyl methacrylate	6.64	41	60	178.98	ug/l #	14
49) 1,4-Dioxane	6.39	88	60	19280.08	ug/l #	25
59) 2-Hexanone	9.29	43	60	172.71	ug/l #	35

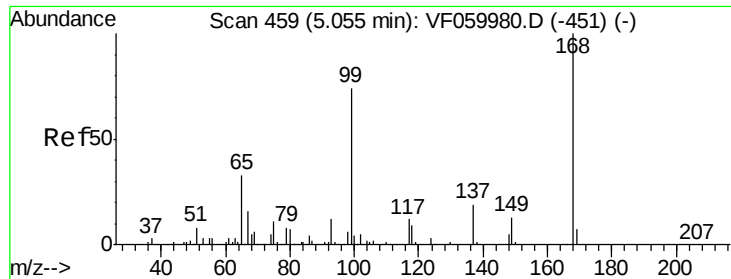
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 18 01:11:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.97 min Scan# 450

Delta R.T. -0.09 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

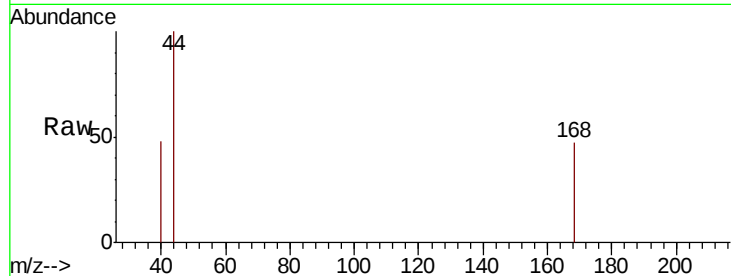
RA-081318-SSW-45-022RE

Tot Ion:168 Resp: 95

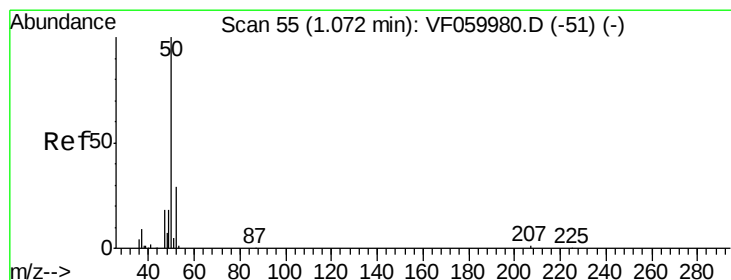
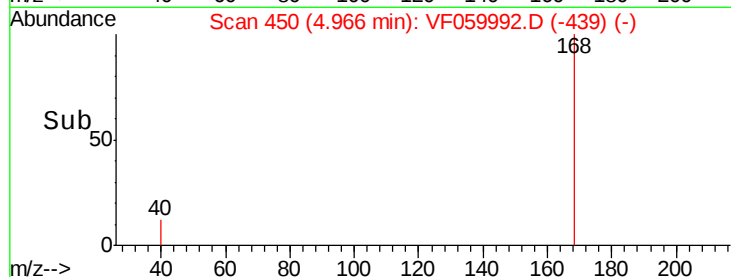
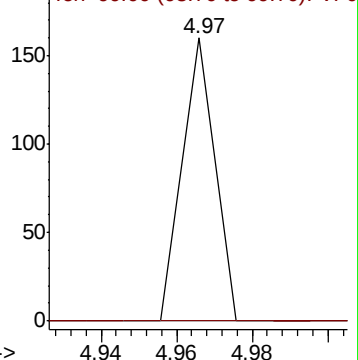
Ion Ratio Lower Upper

168 100

99 0.0 59.0 88.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 324.21 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF059992.D

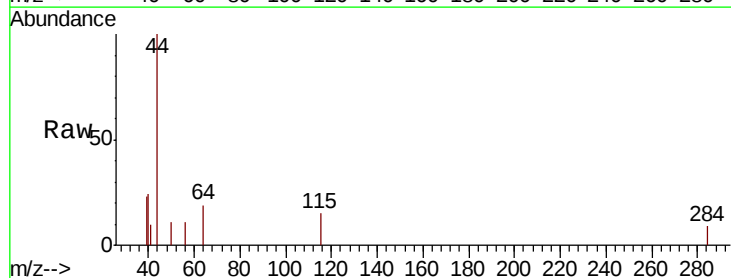
Acq: 18 Aug 2018 00:57

Tgt Ion: 50 Resp: 235

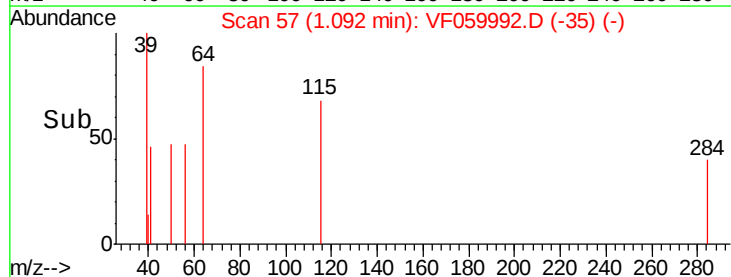
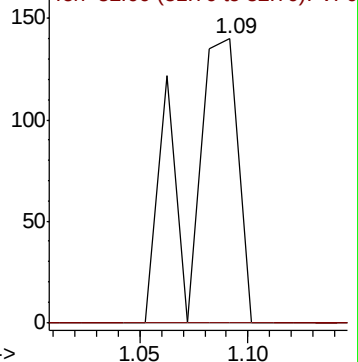
Ion Ratio Lower Upper

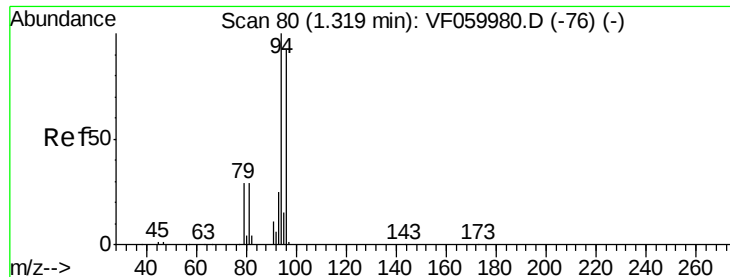
50 100

52 0.0 23.6 35.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 70.53 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.12 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

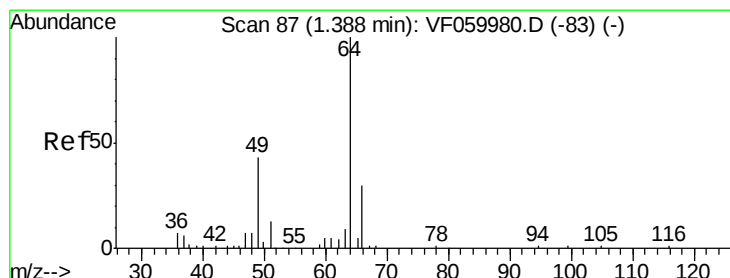
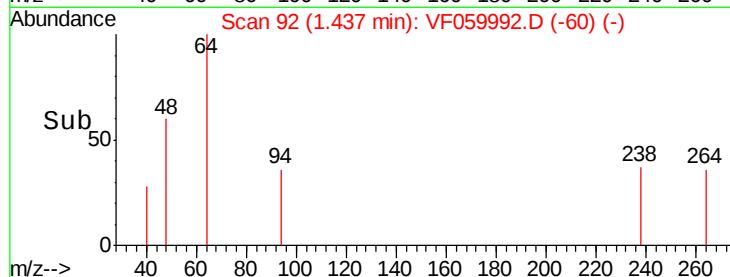
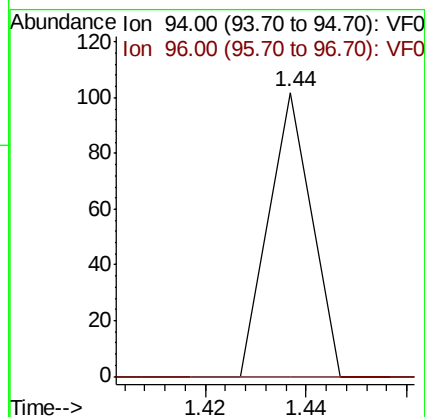
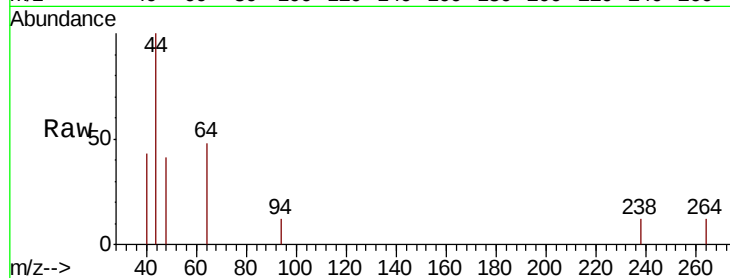
RA-081318-SSW-45-022RE

Tot Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#



#6

Chloroethane

Concen: 1026.84 ug/l

RT: 1.35 min Scan# 83

Delta R.T. -0.04 min

Lab File: VF059992.D

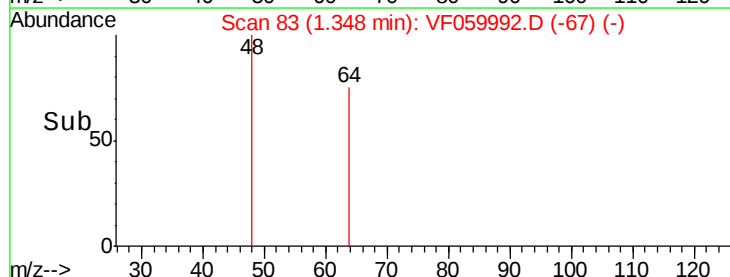
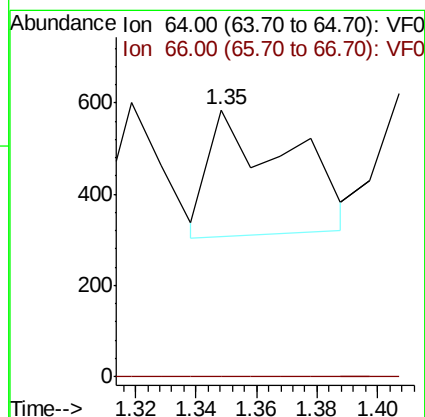
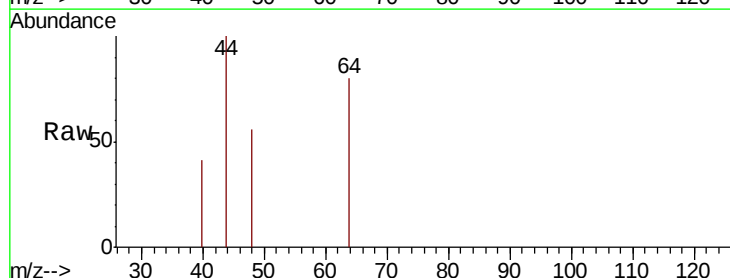
Acq: 18 Aug 2018 00:57

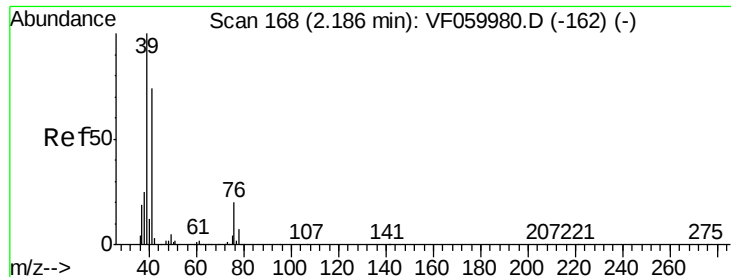
Tgt Ion: 64 Resp: 513

Ion Ratio Lower Upper

64 100

66 0.0 24.4 36.6#





#14

Allvl chloride

Concen: 79.86 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.10 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-45-022RE

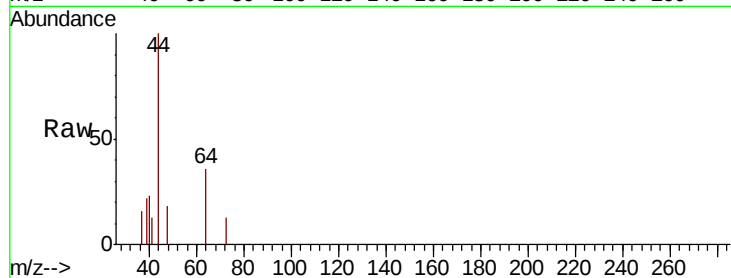
Tot Ion: 41 Resp: 121

Ion Ratio Lower Upper

41 100

39 173.3 109.3 163.9#

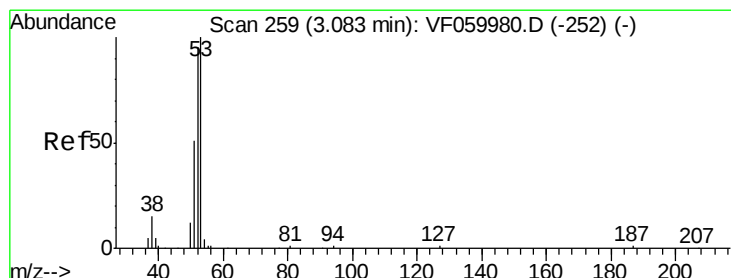
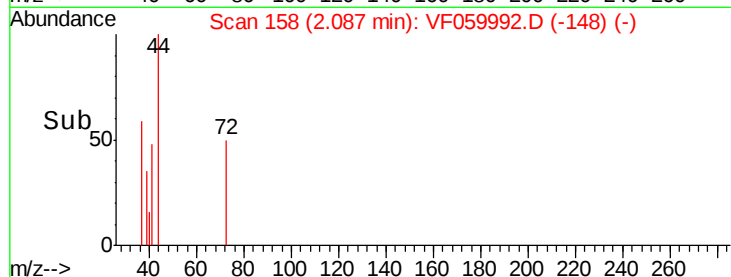
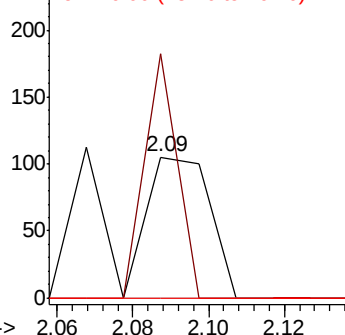
76 0.0 21.3 31.9#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 410.87 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

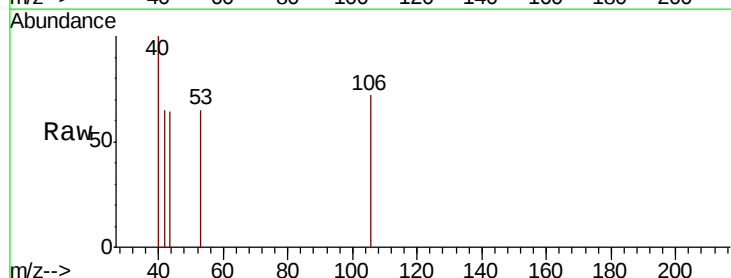
Tgt Ion: 53 Resp: 71

Ion Ratio Lower Upper

53 100

52 0.0 76.0 114.0#

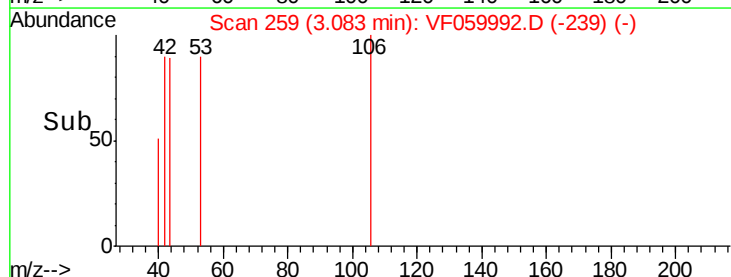
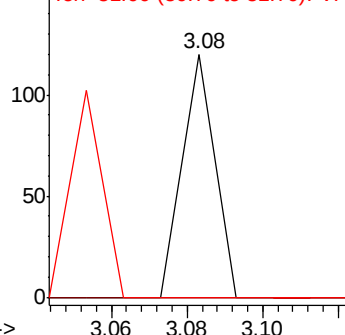
51 0.0 41.9 62.9#

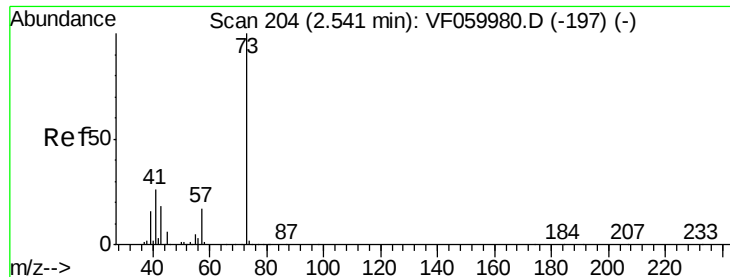


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



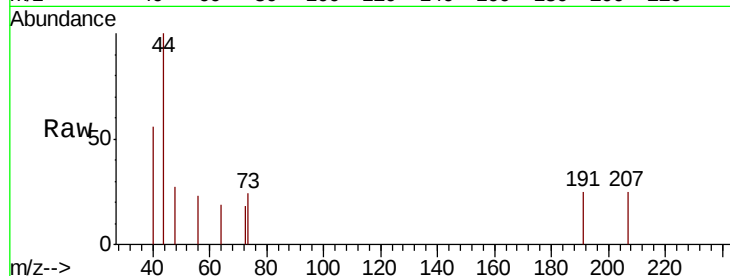


#19

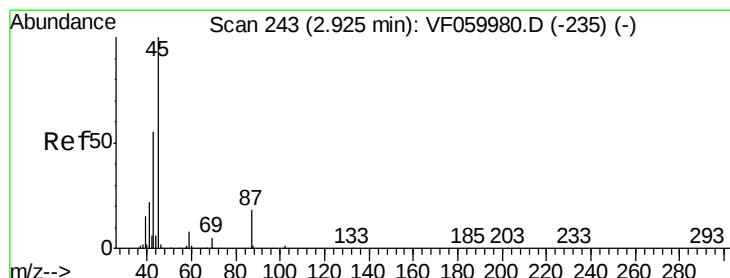
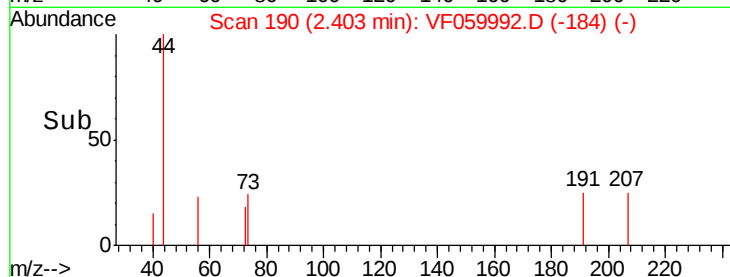
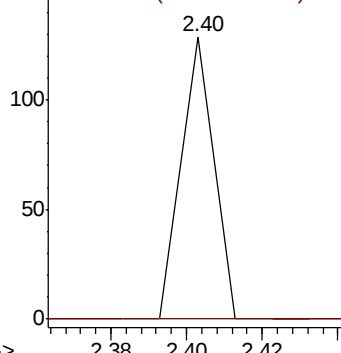
Methyl tert-butyl Ether
 Concen: 25.86 ug/l
 RT: 2.40 min Scan# 190
 Delta R.T. -0.14 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-SSW-45-022RE

Tot Ion: 73 Resp: 76
 Ion Ratio Lower Upper
 73 100
 57 0.0 14.2 21.2#



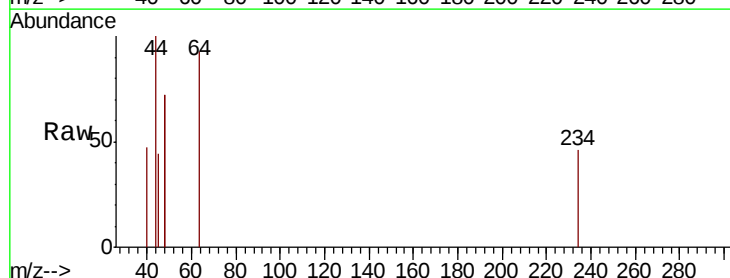
Abundance Ion 73.00 (72.70 to 73.70): VF0
 Ion 57.00 (56.70 to 57.70): VF0



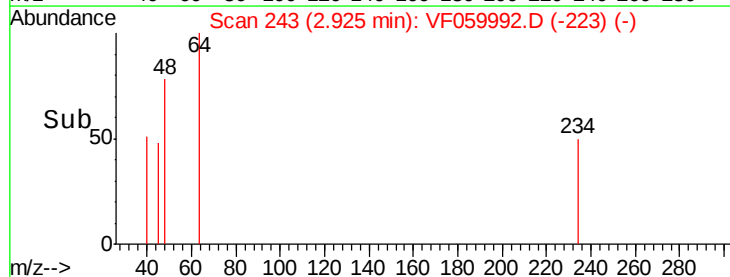
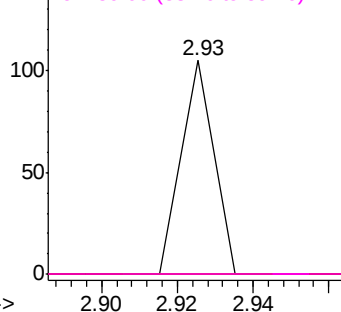
#22

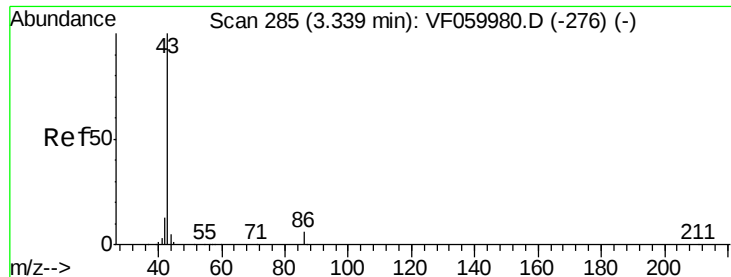
Diisopropyl ether
 Concen: 19.14 ug/l
 RT: 2.93 min Scan# 243
 Delta R.T. -0.00 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Tgt Ion: 45 Resp: 62
 Ion Ratio Lower Upper
 45 100
 43 0.0 44.8 67.2#
 87 0.0 14.6 21.8#
 59 0.0 6.8 10.2#



Abundance Ion 45.00 (44.70 to 45.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0
 Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 126.47 ug/l

RT: 3.11 min Scan# 262

Delta R.T. -0.23 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

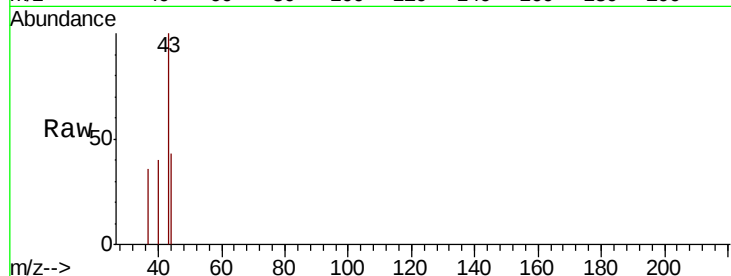
RA-081318-SSW-45-022RE

Tot Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

86 0.0 4.4 6.6#



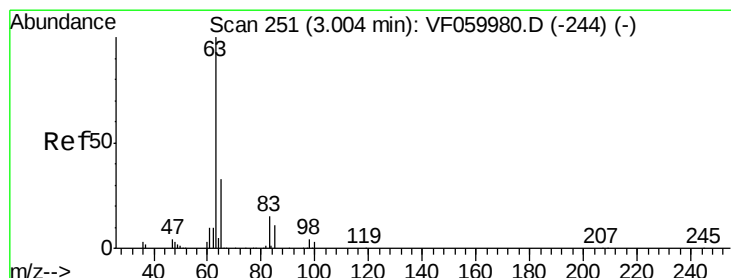
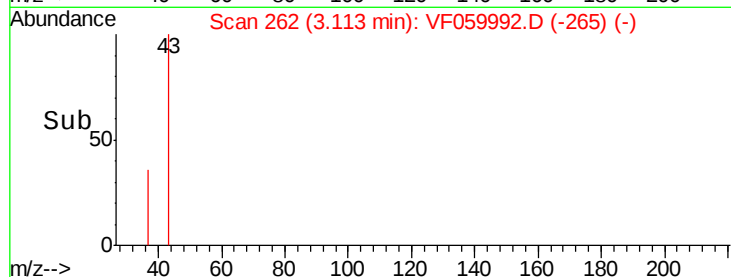
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.11

3.10 3.12 3.14

Time-->



#24

1,1-Dichloroethane

Concen: 122.34 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.06 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

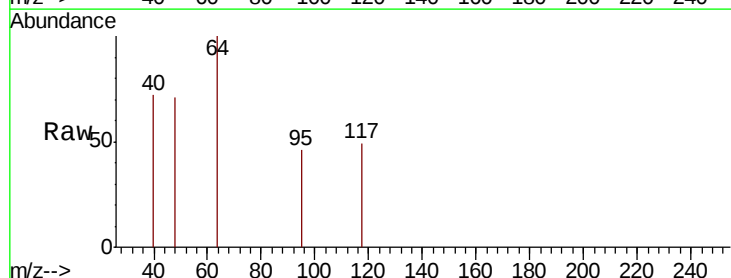
Tgt Ion: 63 Resp: 260

Ion Ratio Lower Upper

63 100

98 0.0 2.0 5.8#

100 0.0 1.4 4.2#



Abundance Ion 63.00 (62.70 to 63.70): VF0

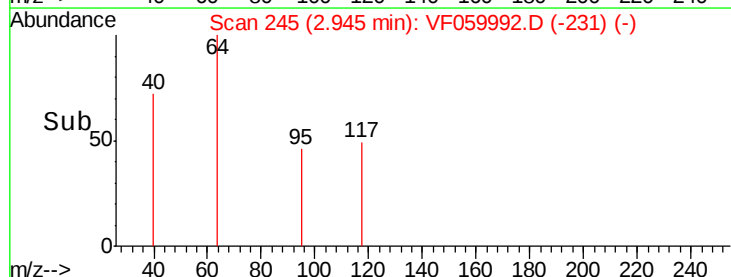
Ion 98.00 (97.70 to 98.70): VF0

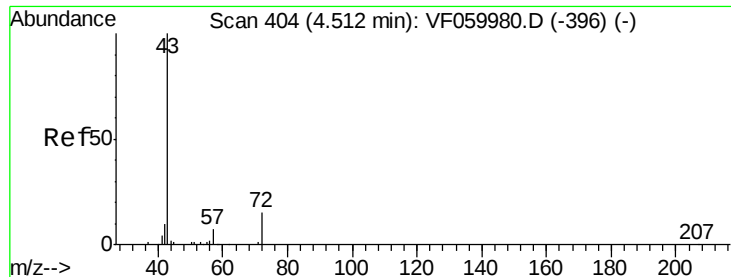
Ion 100.00 (99.70 to 100.70): VF0

2.94

2.90 2.95

Time-->





#25

2-Butanone

Concen: 146.63 ug/l

RT: 4.46 min Scan# 399

Delta R.T. -0.05 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

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ClientSampleId :

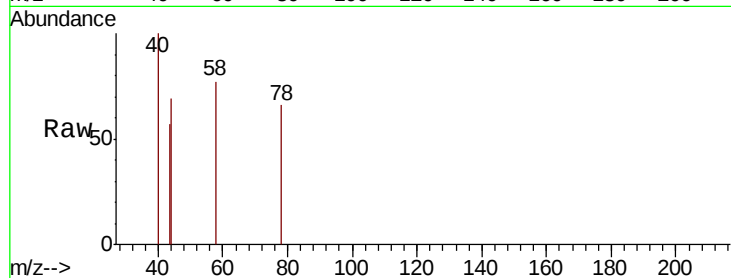
RA-081318-SSW-45-022RE

Tot Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

72 0.0 12.5 18.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.46

120

100

80

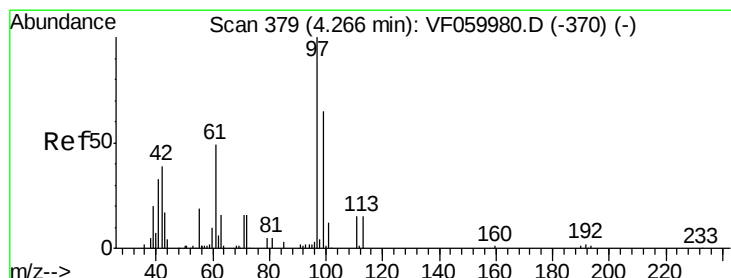
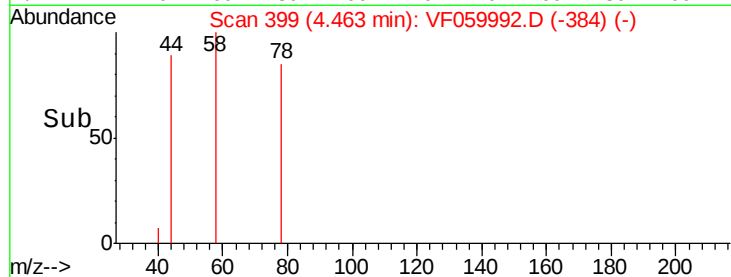
60

40

20

0

Time-->



#29

Tetrahydrofuran

Concen: 872.25 ug/l

RT: 4.35 min Scan# 388

Delta R.T. 0.09 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

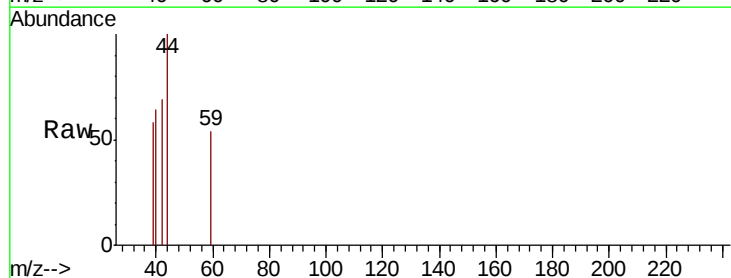
Tgt Ion: 42 Resp: 138

Ion Ratio Lower Upper

42 100

72 0.0 29.8 44.6#

71 44.9 29.0 43.4#



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

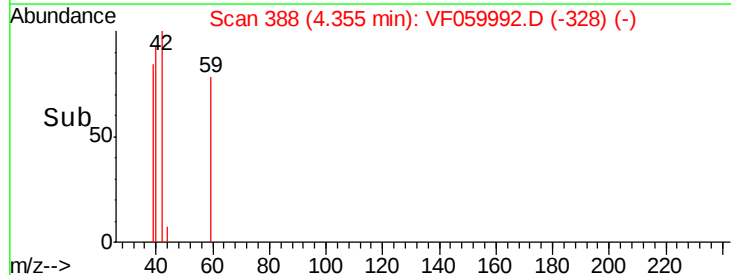
150

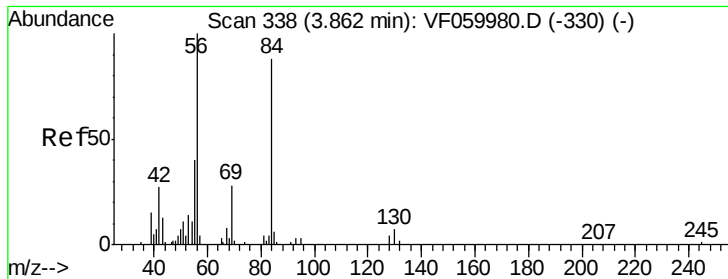
100

50

0

Time-->

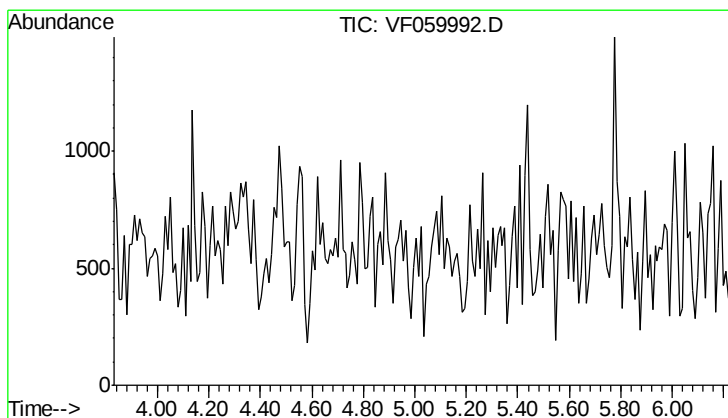
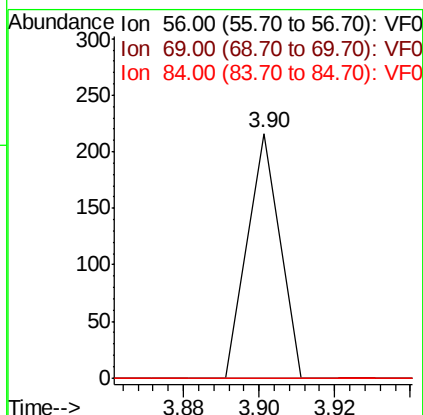
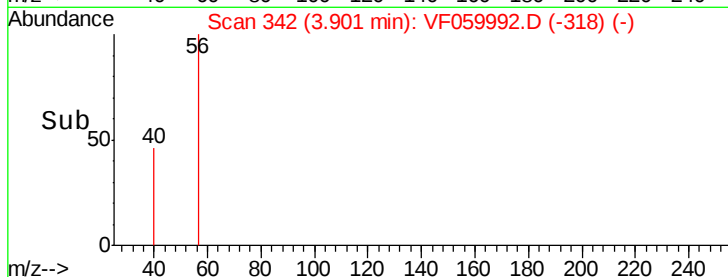
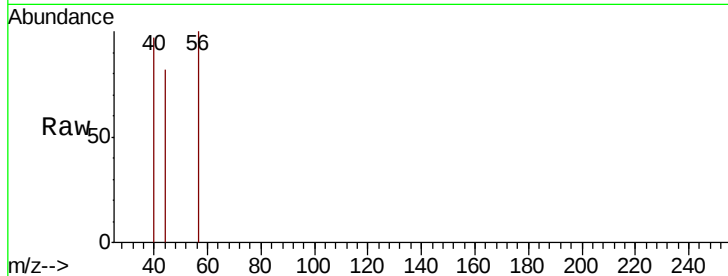




#31
Cyclohexane
Concen: 131.57 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.04 min
Lab File: VF059992.D
Acq: 18 Aug 2018 00:57

Instrument :
MSVOA_F
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RA-081318-SSW-45-022RE

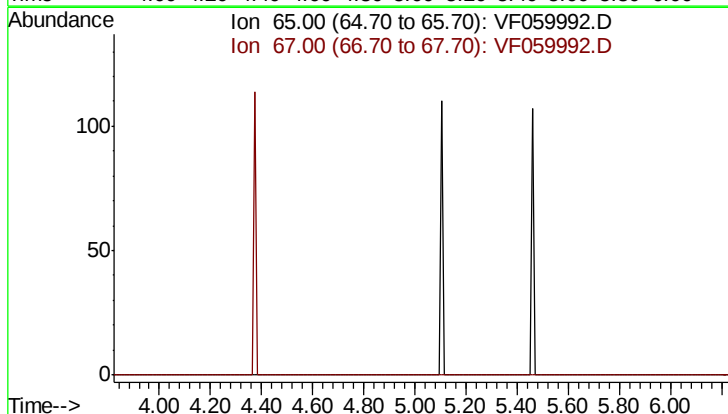
Tot Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
69 0.0 22.8 34.2#
84 0.0 70.7 106.1#

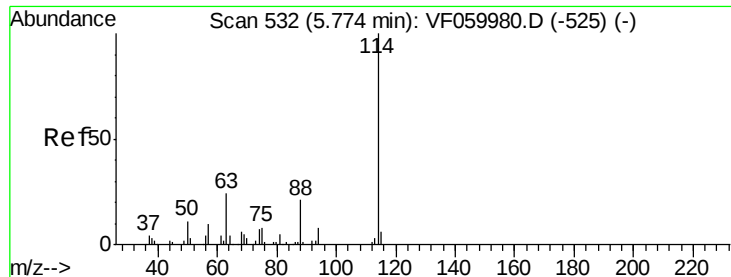


#33
1,2-Dichloroethane-d4
Concen: 0.00 ug/l
Expected RT: 5.03 min

Lab File: VF059992.D
Acq: 18 Aug 2018 00:57

Tgt Ion: 65
Sig Exp Ratio
65 100
67 41.3

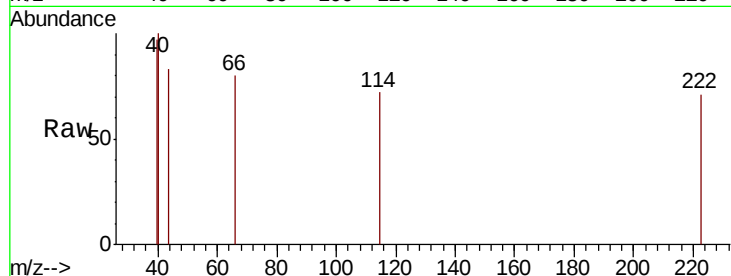




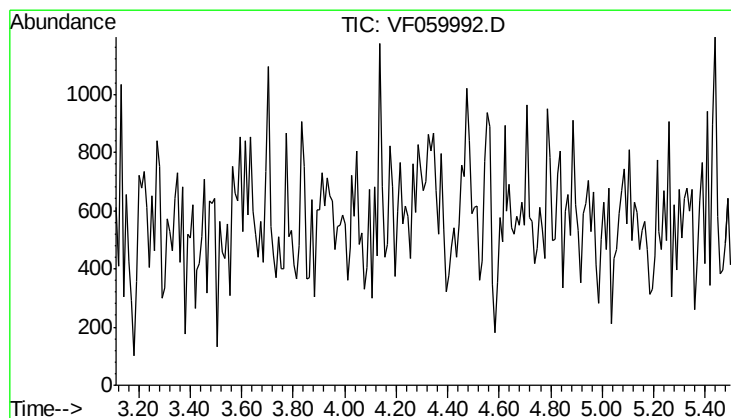
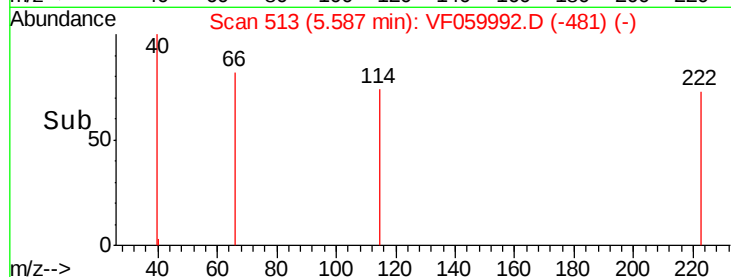
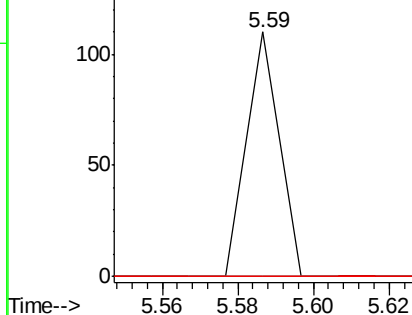
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.59 min Scan# 513
 Delta R.T. -0.19 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-SSW-45-022RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	48.6
88	0.0	0.0	42.8



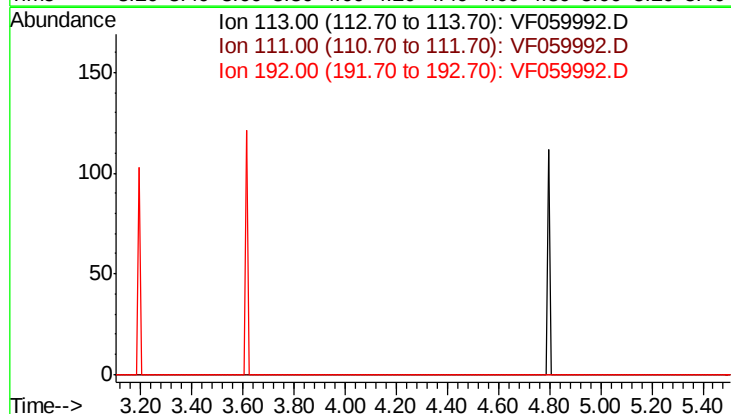
Abundance Ion 114.00 (113.70 to 114.70): VF059992.D
 Ion 63.00 (62.70 to 63.70): VF059992.D
 Ion 88.00 (87.70 to 88.70): VF059992.D

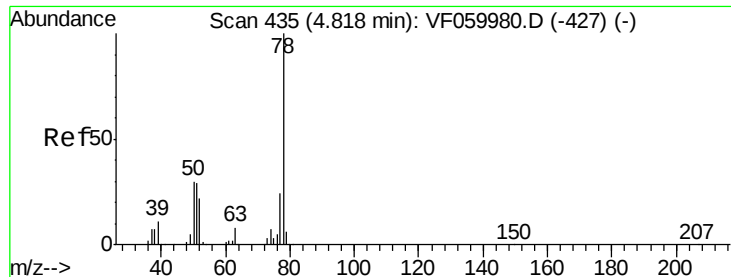


#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 4.31 min

Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Tgt Ion	Exp Ratio
113	100
111	99.4
192	15.5





#40

Benzene

Concen: 48.68 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.32 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

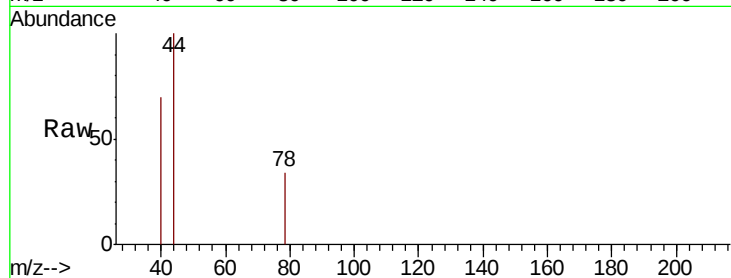
RA-081318-SSW-45-022RE

Tot Ion: 78 Resp: 61

Ion Ratio Lower Upper

78 100

77 0.0 19.1 28.7#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.50

100

80

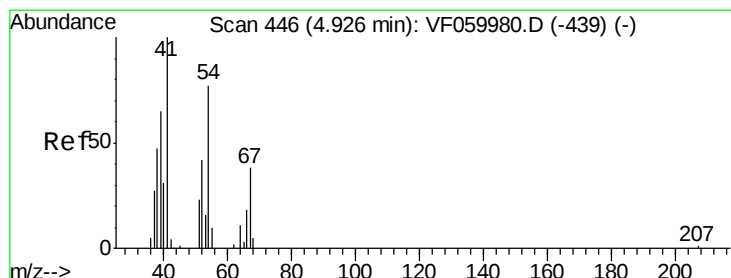
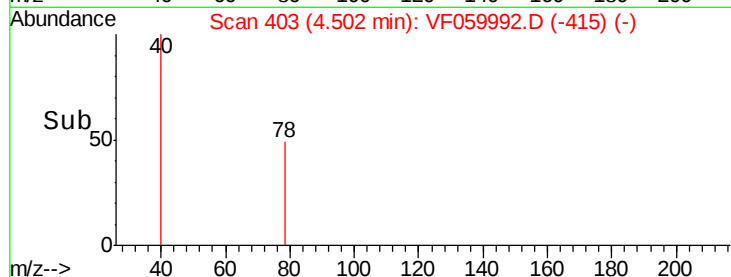
60

40

20

0

Time--> 4.48 4.50 4.52



#41

Methacrylonitrile

Concen: 306.25 ug/l

RT: 4.60 min Scan# 413

Delta R.T. -0.33 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Tgt Ion: 41 Resp: 60

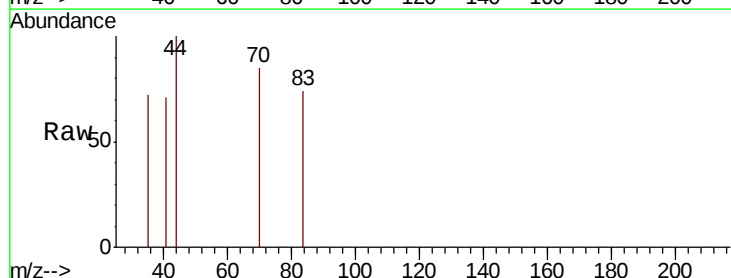
Ion Ratio Lower Upper

41 100

39 0.0 62.9 94.3#

67 0.0 30.4 45.6#

52 0.0 47.8 71.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

250

200

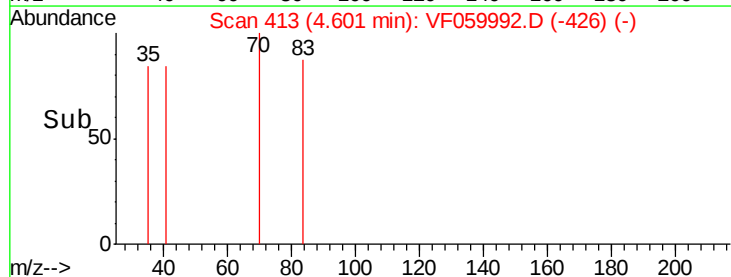
150

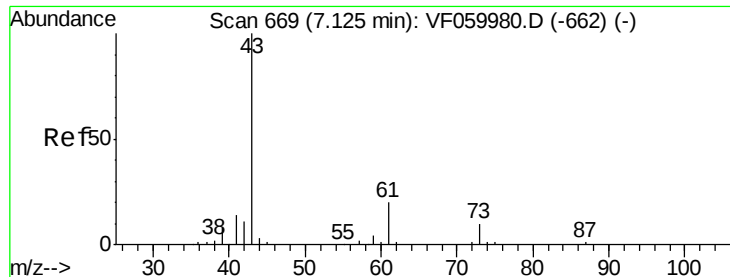
100

50

0

Time--> 4.58 4.60 4.62



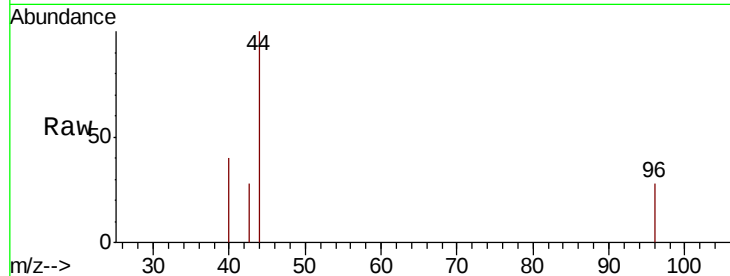


#43

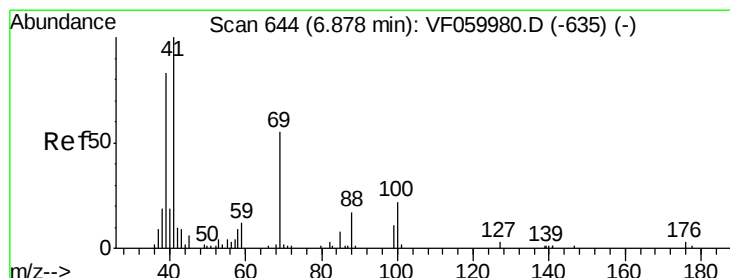
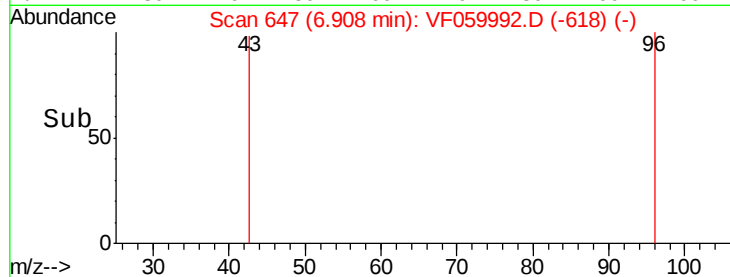
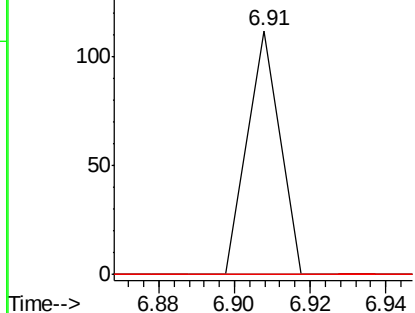
Isopropyl Acetate
 Concen: 146.53 ug/l
 RT: 6.91 min Scan# 647
 Delta R.T. -0.22 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-SSW-45-022RE

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.8	23.8#
87	0.0	0.6	0.8#



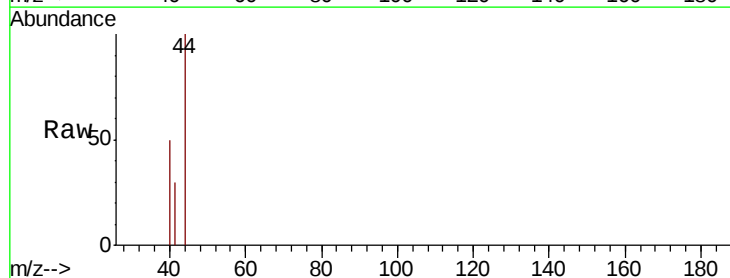
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



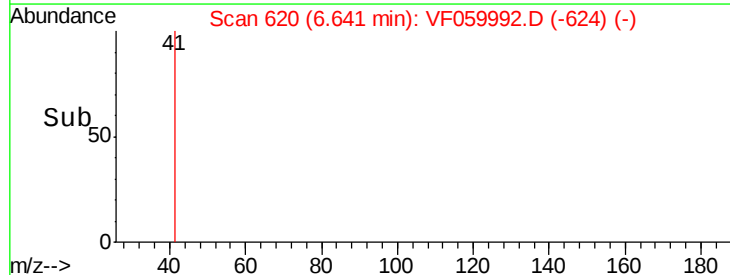
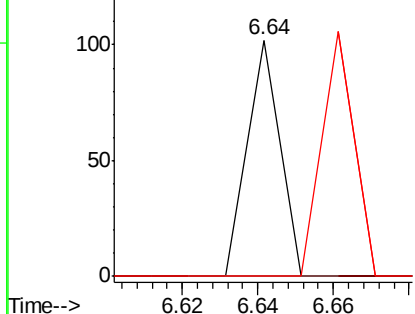
#48

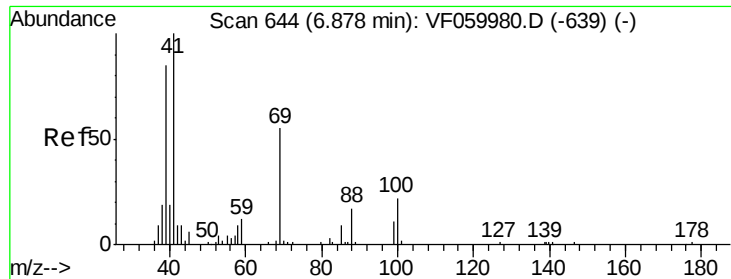
Methyl methacrylate
 Concen: 178.98 ug/l
 RT: 6.64 min Scan# 620
 Delta R.T. -0.24 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	44.4	66.6#
39	0.0	67.8	101.6#



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: 19280.08 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.49 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-45-022RE

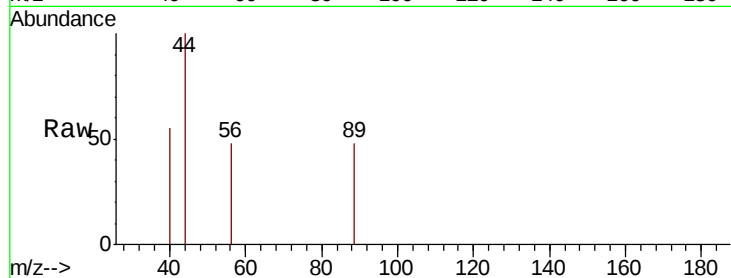
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 43.2 64.8#

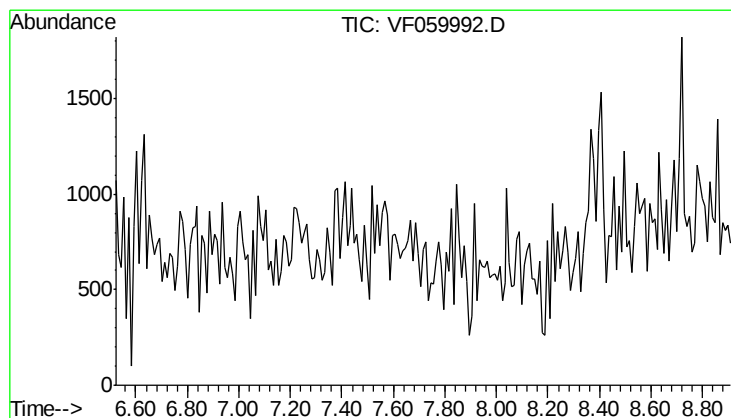
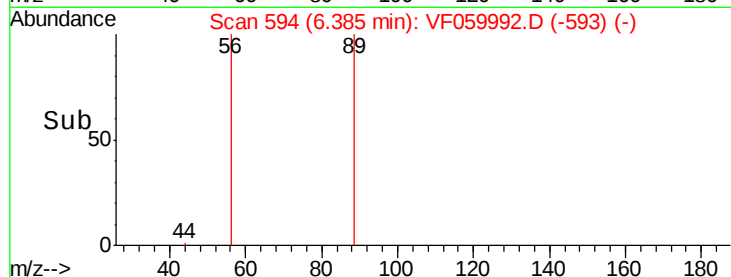
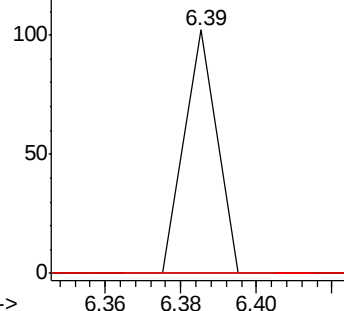
58 0.0 42.0 63.0#



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: 0.00 ug/l

Expected RT: 7.72 min

Lab File: VF059992.D

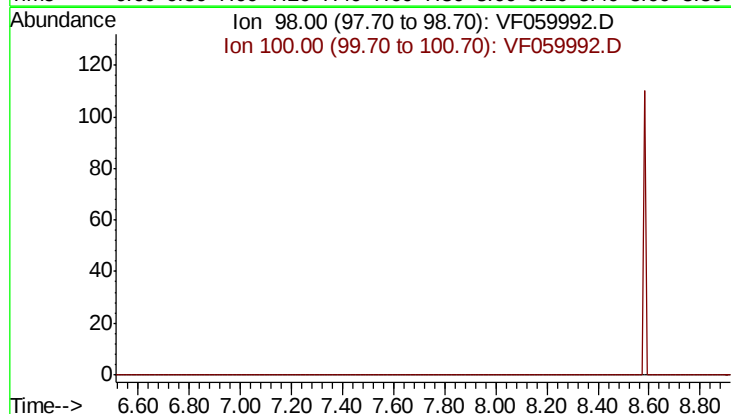
Acq: 18 Aug 2018 00:57

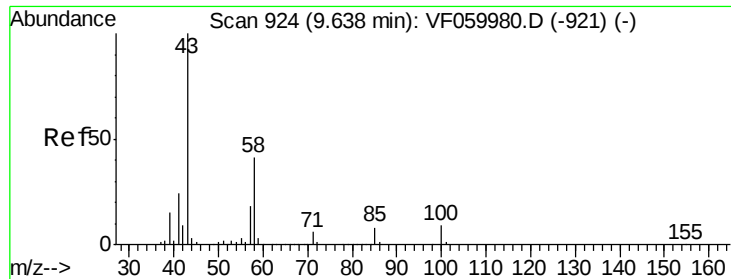
Tgt Ion: 98

Sig Exp Ratio

98 100

100 62.3





#59

2-Hexanone

Concen: 172.71 ug/l

RT: 9.29 min Scan# 889

Delta R.T. -0.35 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

Instrument :

MSVOA_F

ClientSampleId :

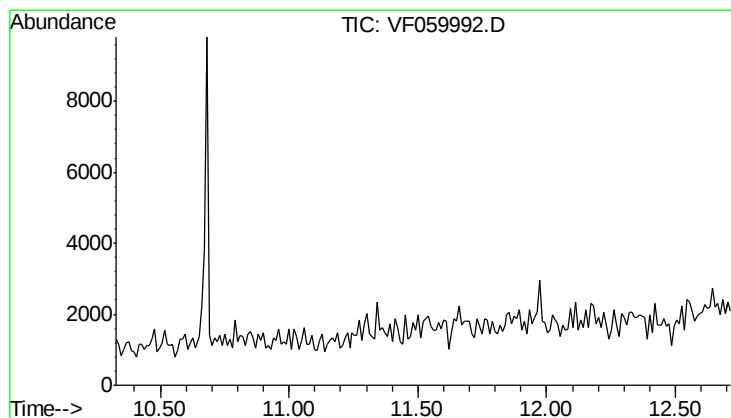
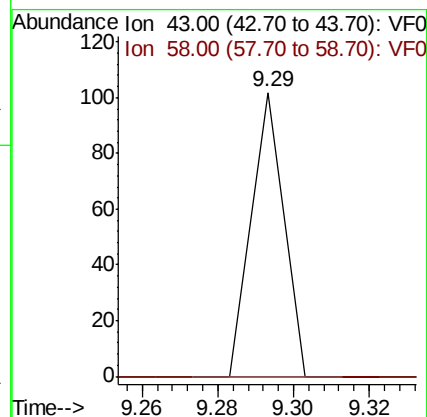
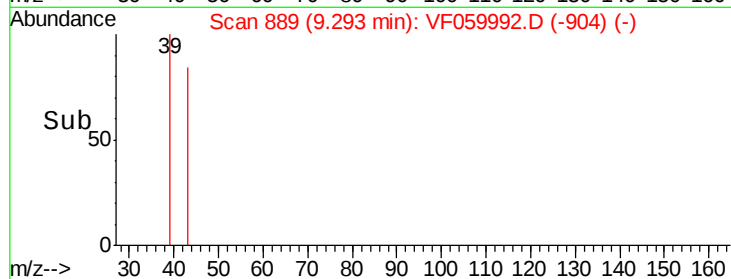
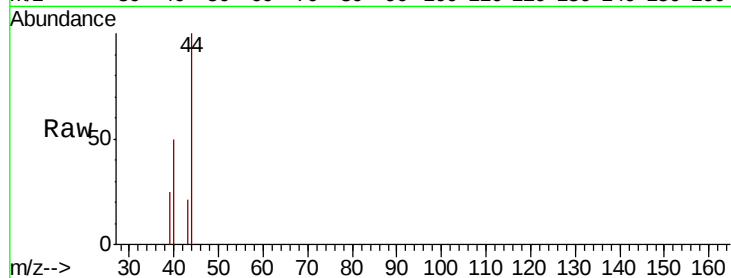
RA-081318-SSW-45-022RE

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

58 0.0 20.1 60.3#



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.52 min

Lab File: VF059992.D

Acq: 18 Aug 2018 00:57

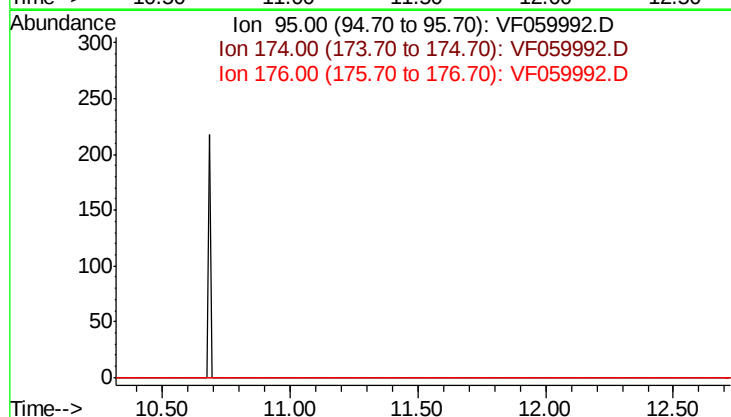
Tgt Ion: 95

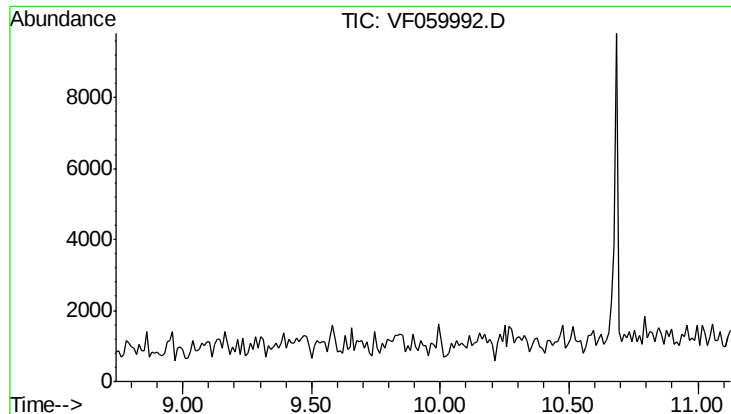
Sig Exp Ratio

95 100

174 84.9

176 83.9

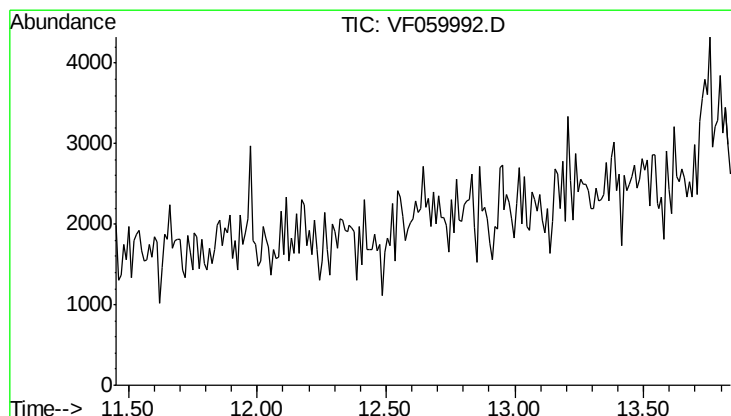
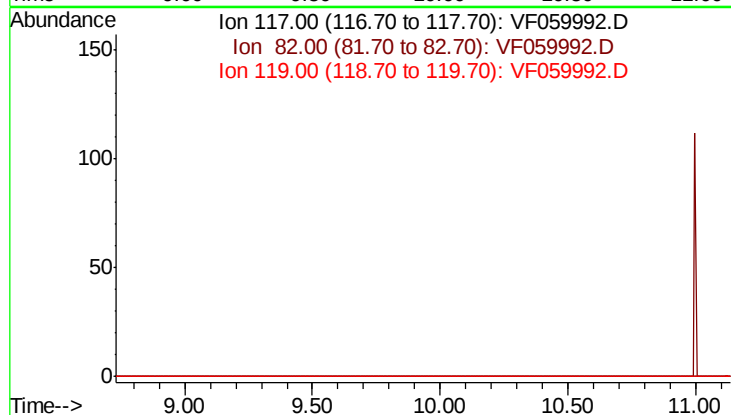




#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.93 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081318-SSW-45-022RE

Tot Ion	117
Sig	Exp Ratio
117	100
82	59.0
119	32.6



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ug/l
 Expected RT: 12.64 min
 Lab File: VF059992.D
 Acq: 18 Aug 2018 00:57

Tgt Ion	152
Sig	Exp Ratio
152	100
115	58.2
150	165.1

