

Data File : VF059991.D
Acq On : 18 Aug 2018 00:29
Operator : VA/AP
Sample : J4501-06RE
Misc : 5.05g/5mL/MSVOA_F/SOIL
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
RA-081318-SSW-15-021RE

Quant Time: Aug 18 01:42:32 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	5.05	168	18459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	13531	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	7913	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	931	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	3315	9.30	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	18.60%	
35) Dibromofluoromethane	4.29	113	4647	33.60	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	67.20%	
50) Toluene-d8	7.71	98	15195	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.51	95	1288	6.82	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	13.64%	

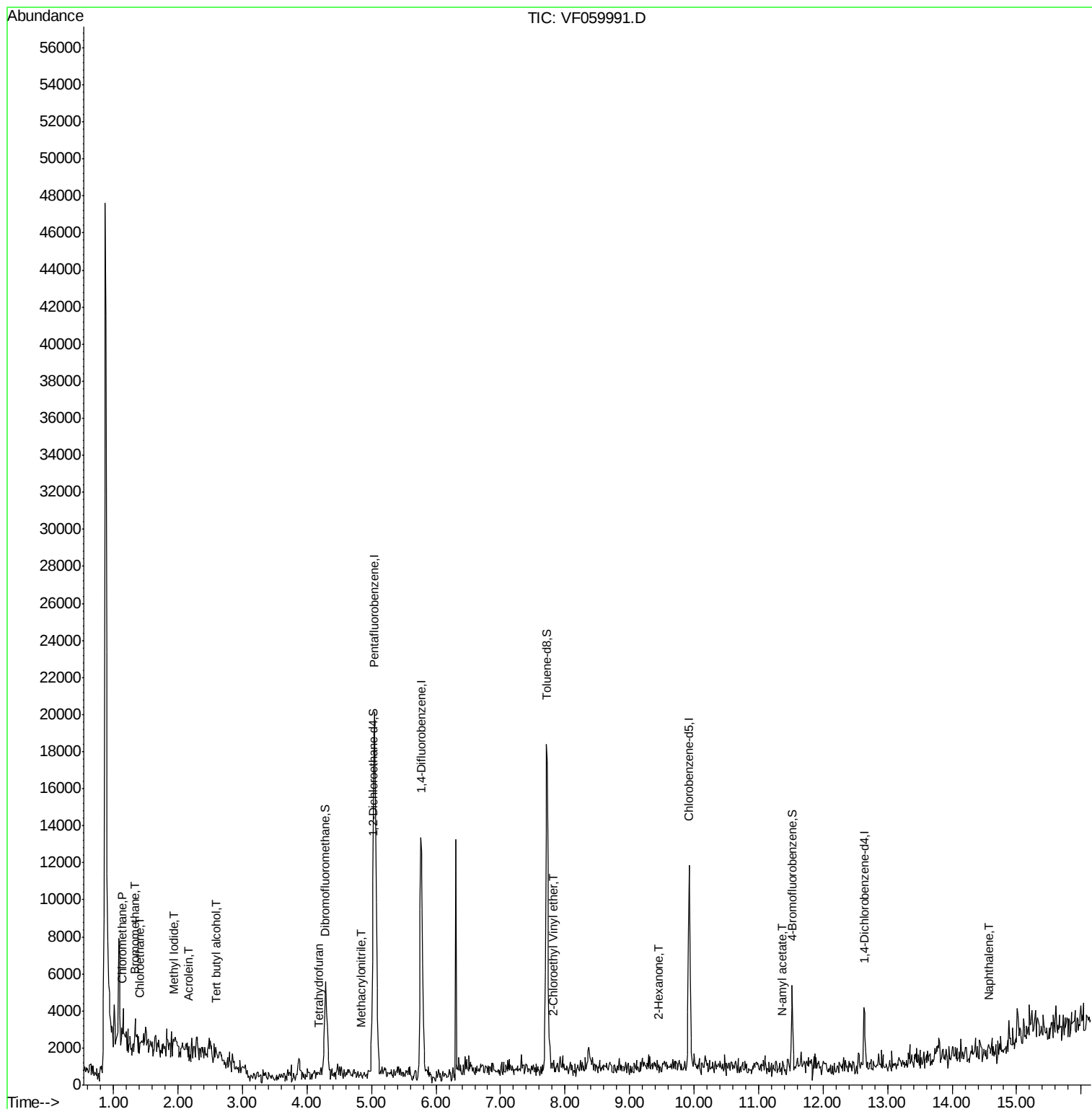
Target Compounds			Qvalue			
3) Chloromethane	1.12	50	774	3.413	ug/l	90
5) Bromomethane	1.33	94	371	1.314	ug/l #	56
6) Chloroethane	1.41	64	257	2.647	ug/l #	44
10) Methyl Iodide	1.94	142	1073	3.380	ug/l #	73
11) Tert butyl alcohol	2.60	59	66	3.178	ug/l #	1
13) Acrolein	2.17	56	67	18.637	ug/l #	9
16) Acetone	2.36	43	162	Below Cal	#	64
18) Methyl Acetate	2.48	43	83	Below Cal	#	63
20) Methylene Chloride	2.29	84	333	Below Cal	#	72
29) Tetrahydrofuran	4.18	42	85	2.765	ug/l #	38
41) Methacrylonitrile	4.84	41	115	2.820	ug/l #	19
58) 2-Chloroethyl Vinyl ether	7.81	63	67	8.803	ug/l	100
59) 2-Hexanone	9.45	43	105	1.452	ug/l #	35
74) N-amyl acetate	11.37	43	62	3.915	ug/l #	49
95) Naphthalene	14.58	128	64	1.959	ug/l #	69

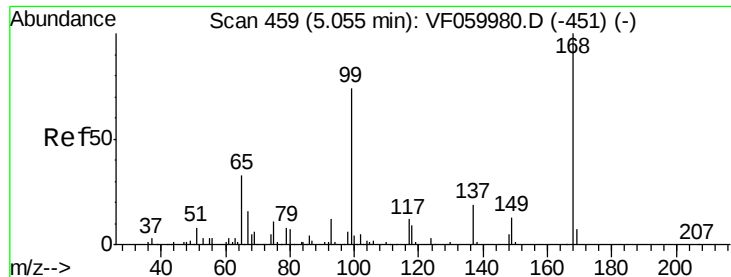
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. -0.00 min

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Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

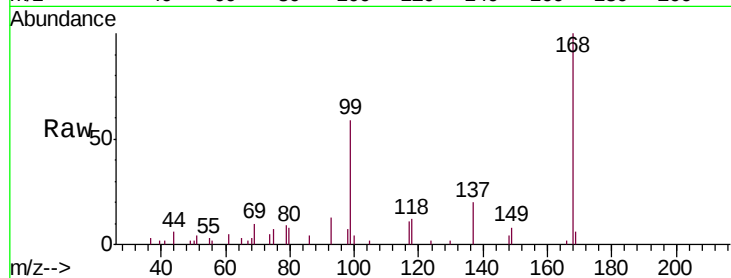
RA-081318-SSW-15-021RE

Tgt Ion:168 Resp: 18459

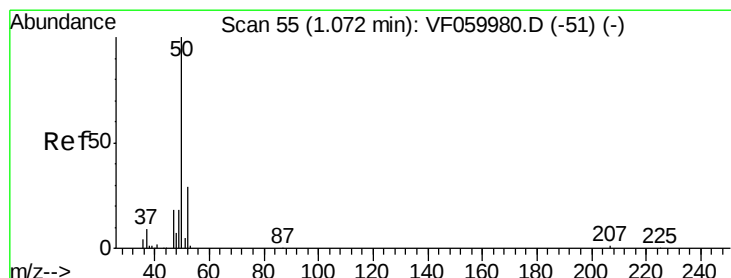
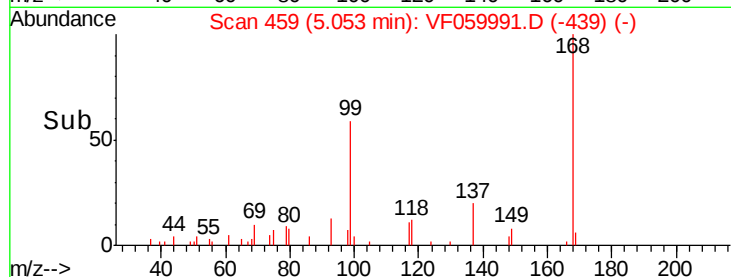
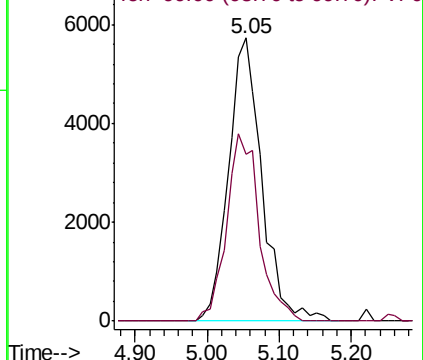
Ion Ratio Lower Upper

168 100

99 59.1 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 3.413 ug/l

RT: 1.12 min Scan# 60

Delta R.T. 0.05 min

Lab File: VF059991.D

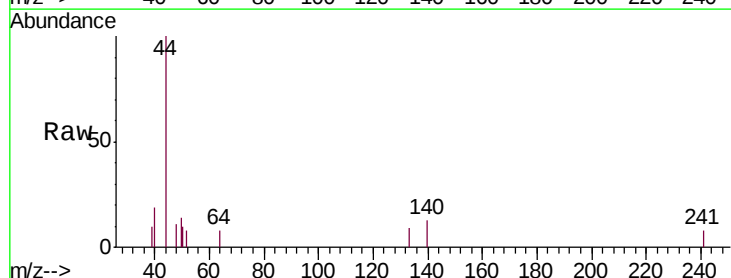
Acq: 18 Aug 2018 00:29

Tgt Ion: 50 Resp: 774

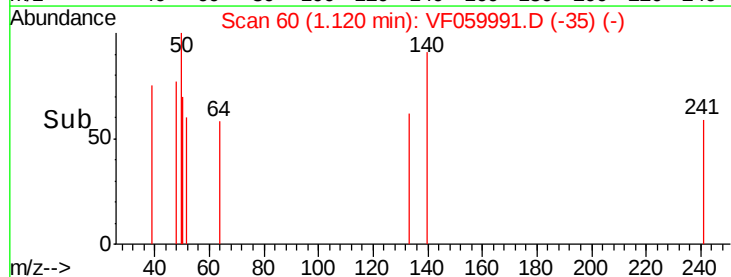
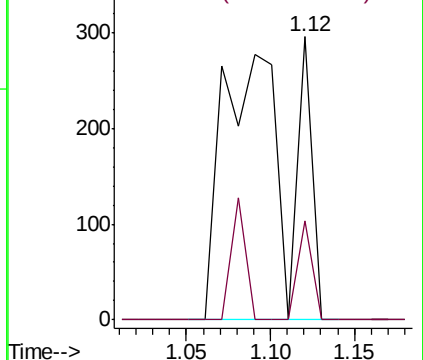
Ion Ratio Lower Upper

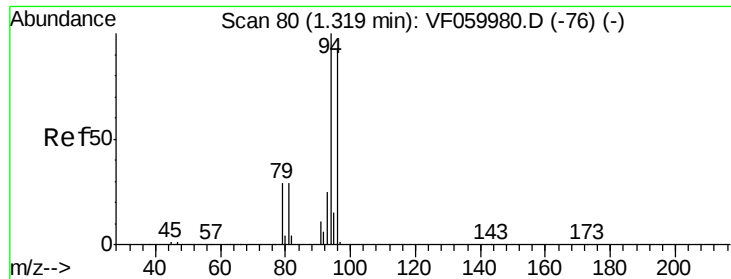
50 100

52 35.1 23.6 35.4



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 1.314 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

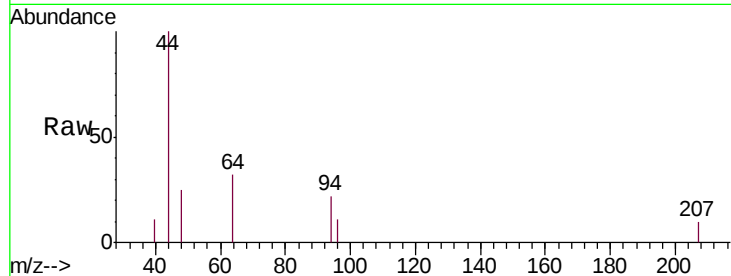
RA-081318-SSW-15-021RE

Tgt Ion: 94 Resp: 371

Ion Ratio Lower Upper

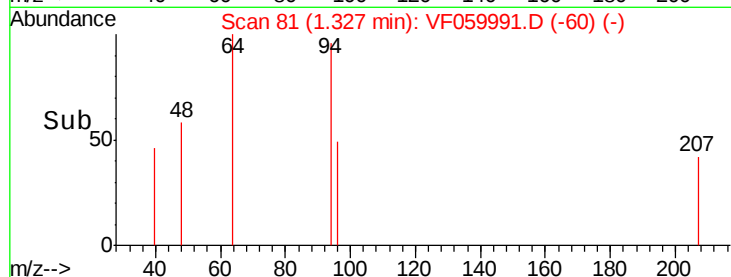
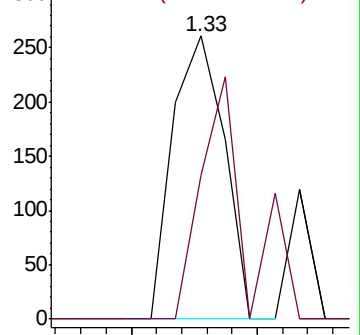
94 100

96 50.6 73.9 110.9#

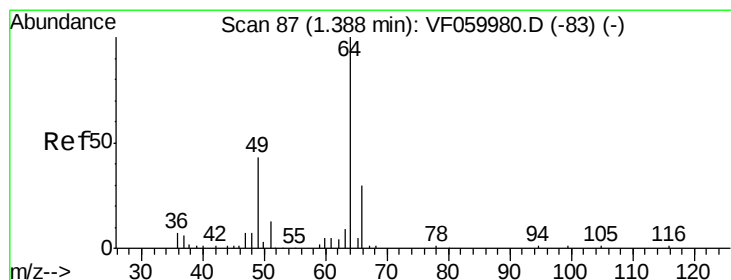


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



Time-->



#6

Chloroethane

Concen: 2.647 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.02 min

Lab File: VF059991.D

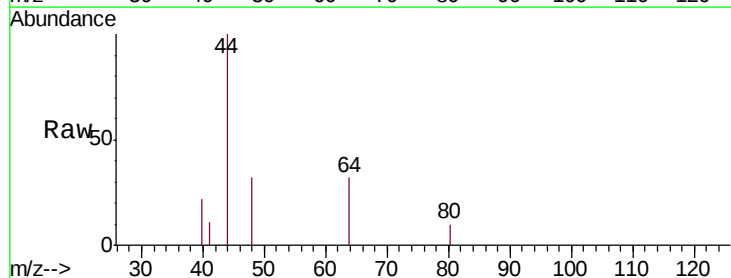
Acq: 18 Aug 2018 00:29

Tgt Ion: 64 Resp: 257

Ion Ratio Lower Upper

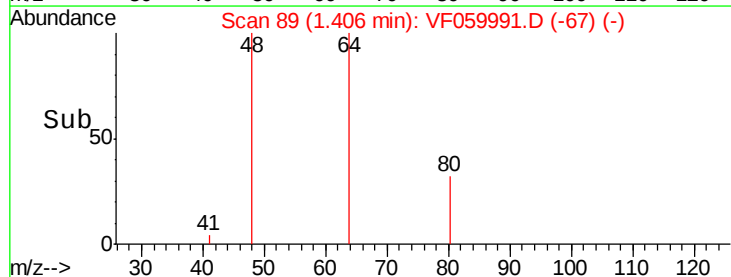
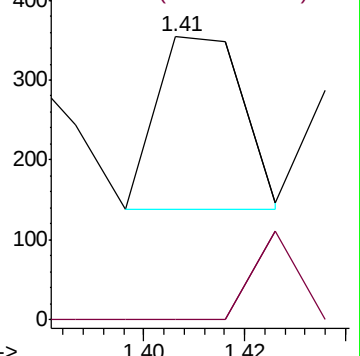
64 100

66 0.0 24.4 36.6#

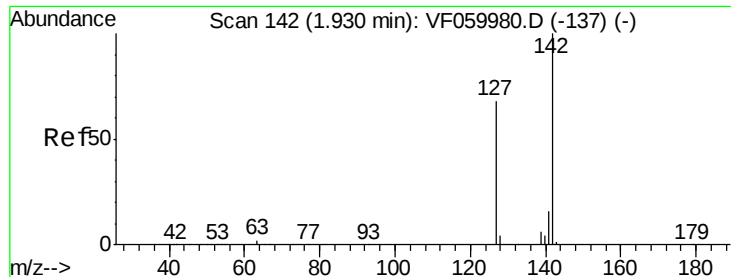


Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



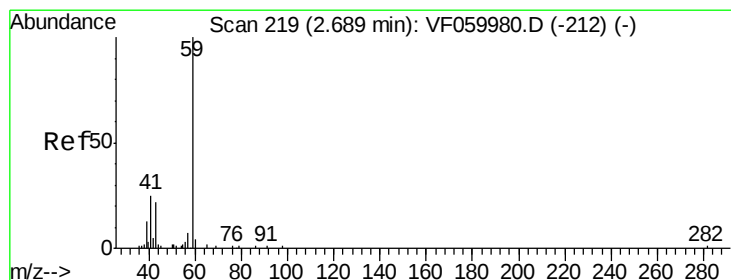
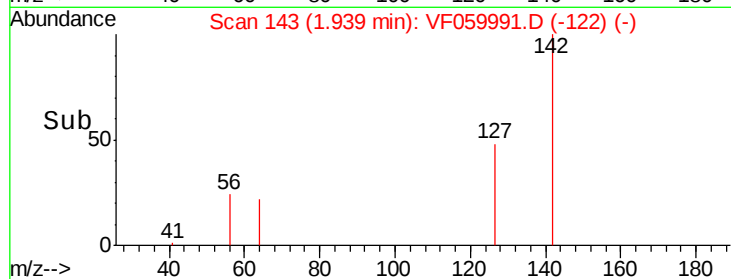
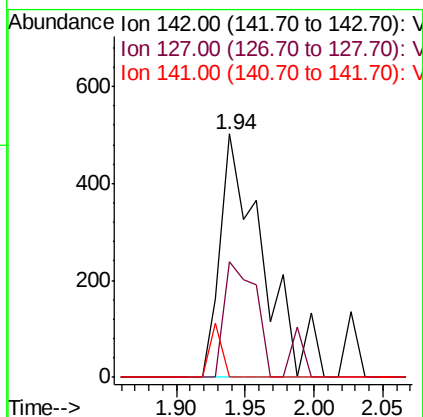
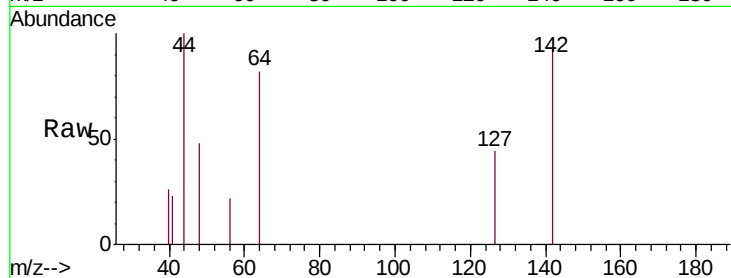
Time-->



#10
Methyl Iodide
Concen: 3.380 ug/l
RT: 1.94 min Scan# 143
Delta R.T. 0.01 min
Lab File: VF059991.D
Acq: 18 Aug 2018 00:29

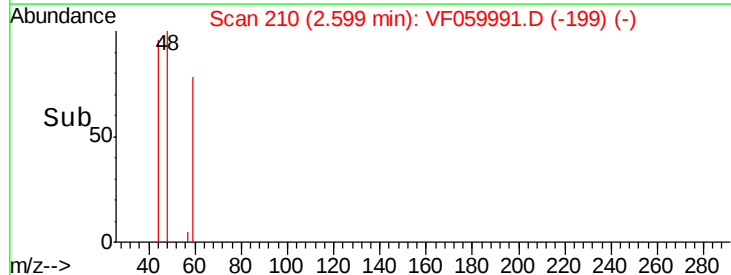
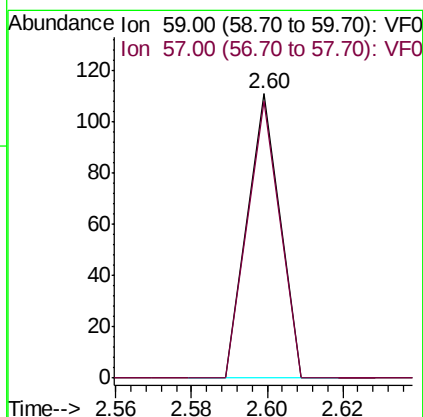
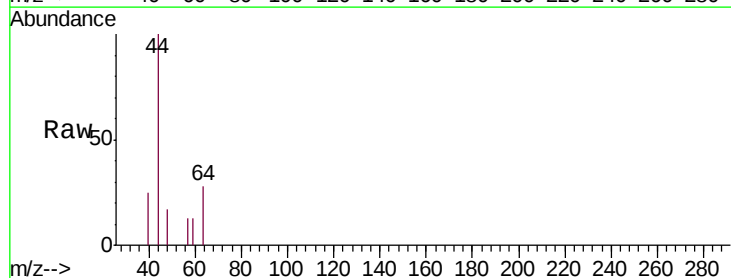
Instrument :
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RA-081318-SSW-15-021RE

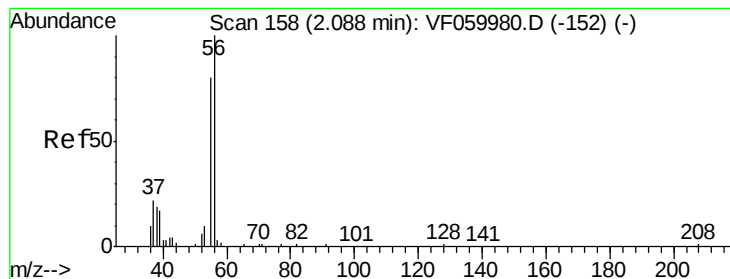
Tgt Ion: 142 Resp: 1073
Ion Ratio Lower Upper
142 100
127 47.6 54.1 81.1#
141 0.0 12.5 18.7#



#11
Tert butyl alcohol
Concen: 3.178 ug/l
RT: 2.60 min Scan# 210
Delta R.T. -0.09 min
Lab File: VF059991.D
Acq: 18 Aug 2018 00:29

Tgt Ion: 59 Resp: 66
Ion Ratio Lower Upper
59 100
57 97.3 6.8 10.2#





#13

Acrolein

Concen: 18.637 ug/l

RT: 2.17 min Scan# 166

Delta R.T. 0.08 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

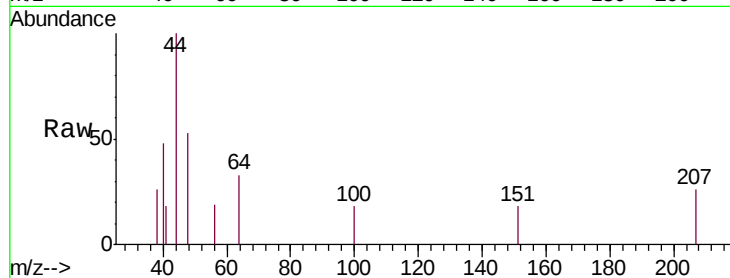
RA-081318-SSW-15-021RE

Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

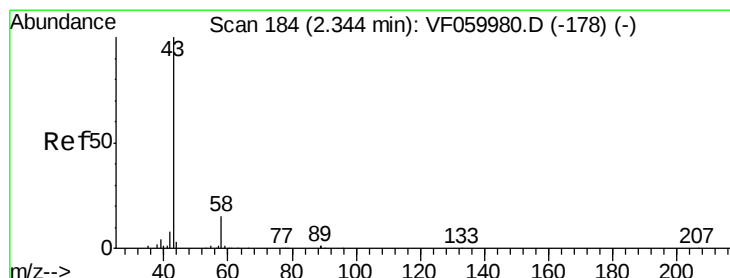
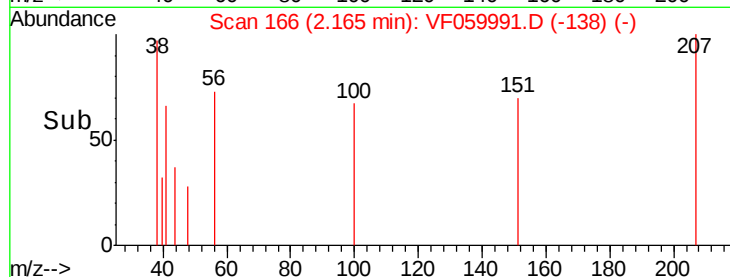
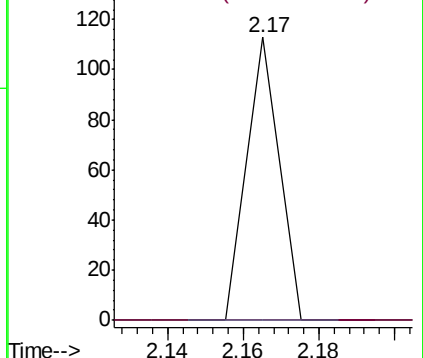
56 100

55 0.0 63.8 95.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.36 min Scan# 186

Delta R.T. 0.02 min

Lab File: VF059991.D

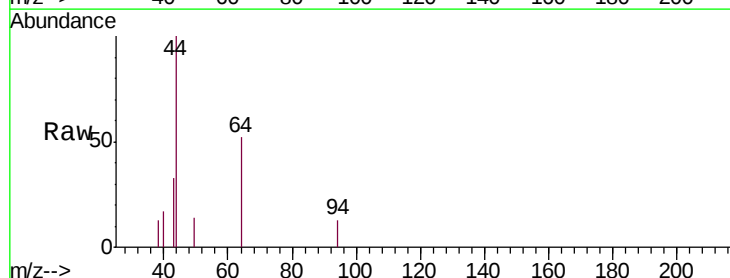
Acq: 18 Aug 2018 00:29

Tgt Ion: 43 Resp: 162

Ion Ratio Lower Upper

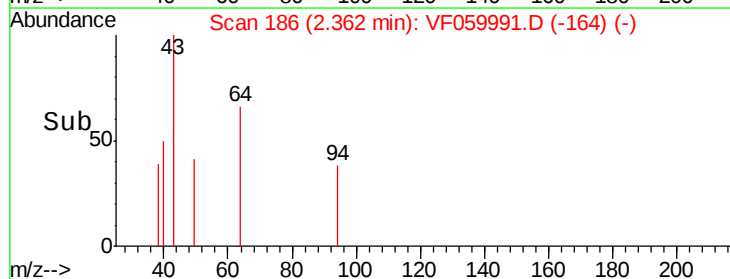
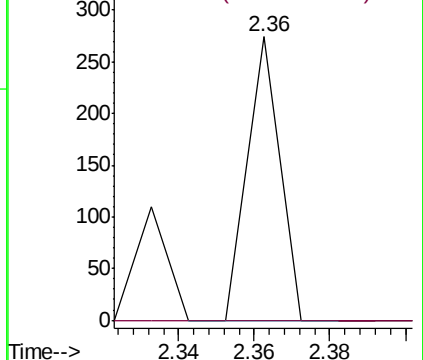
43 100

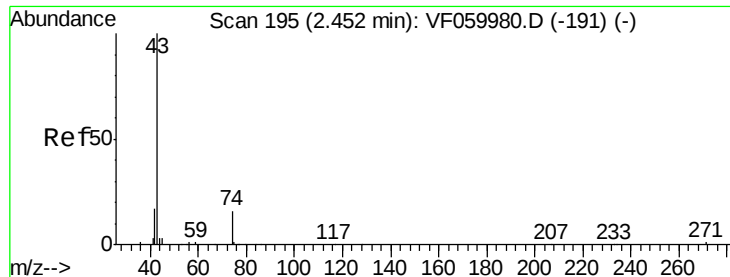
58 0.0 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

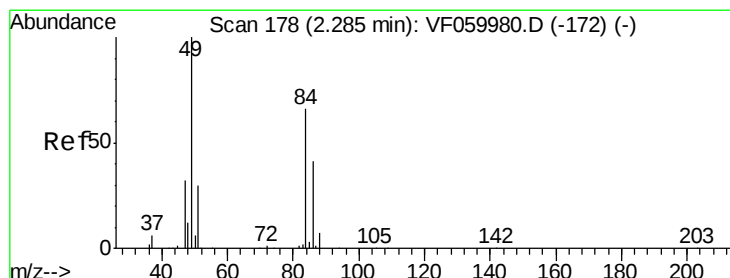
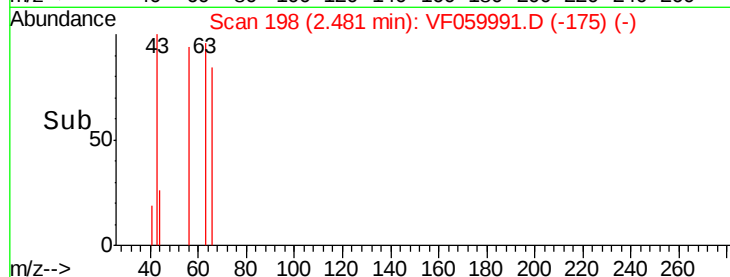
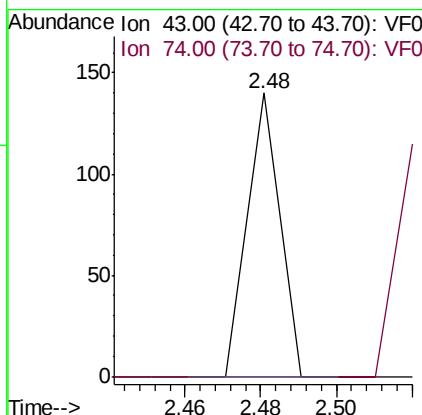
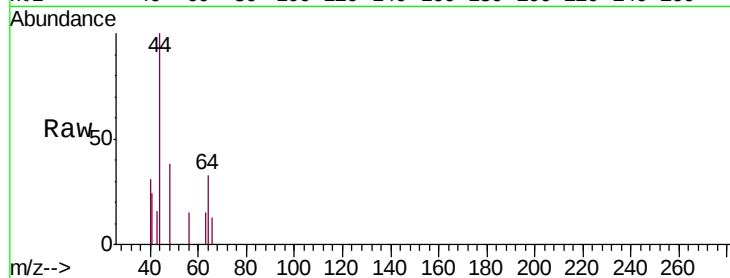




#18
Methyl Acetate
Concen: Below Cal
RT: 2.48 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF059991.D
Acq: 18 Aug 2018 00:29

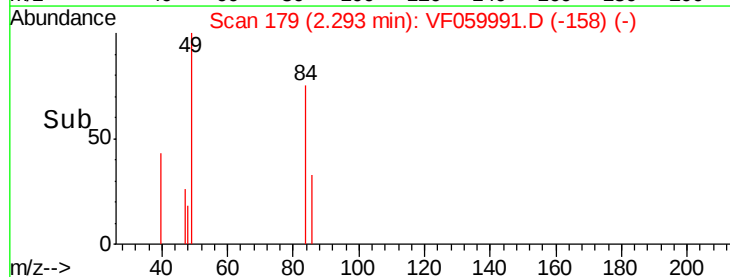
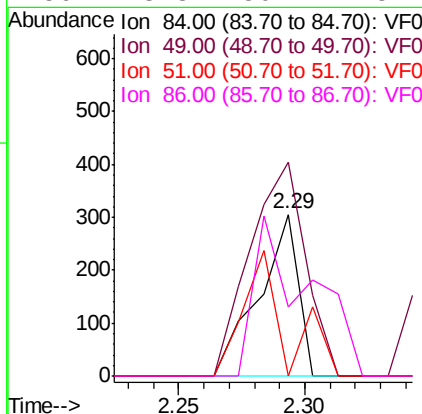
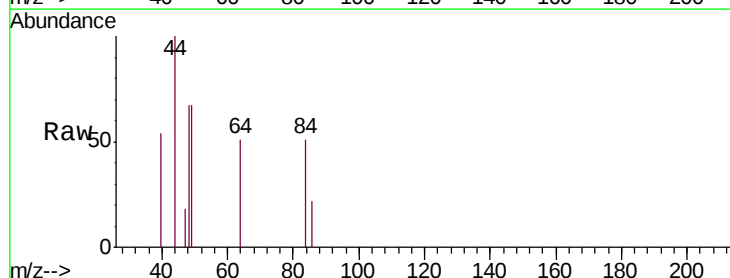
Instrument :
MSVOA_F
ClientSampleId :
RA-081318-SSW-15-021RE

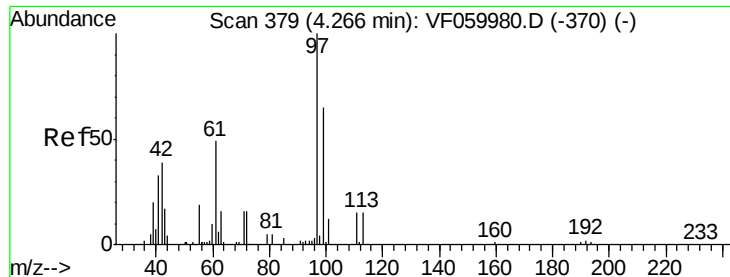
Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
74 0.0 12.3 18.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 179
Delta R.T. 0.01 min
Lab File: VF059991.D
Acq: 18 Aug 2018 00:29

Tgt Ion: 84 Resp: 333
Ion Ratio Lower Upper
84 100
49 132.5 122.5 183.7
51 0.0 37.1 55.7#
86 43.3 50.2 75.2#





#29

Tetrahydrofuran

Concen: 2.765 ug/l

RT: 4.18 min Scan# 370

Delta R.T. -0.09 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-15-021RE

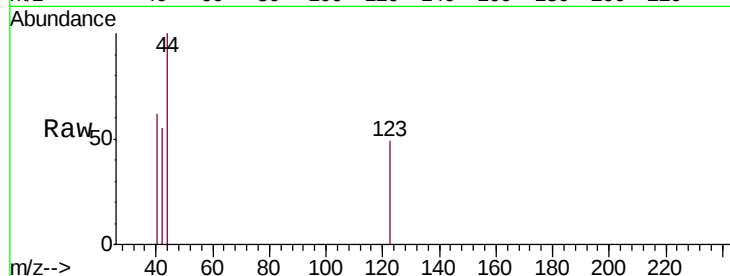
Tgt Ion: 42 Resp: 85

Ion Ratio Lower Upper

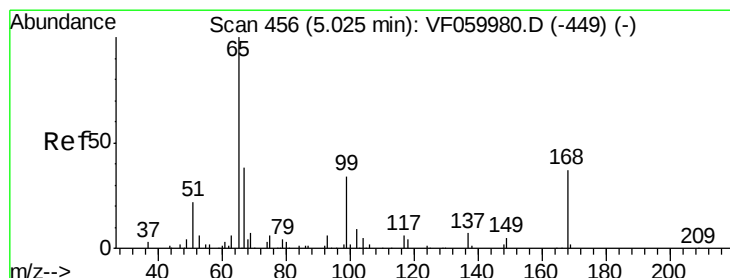
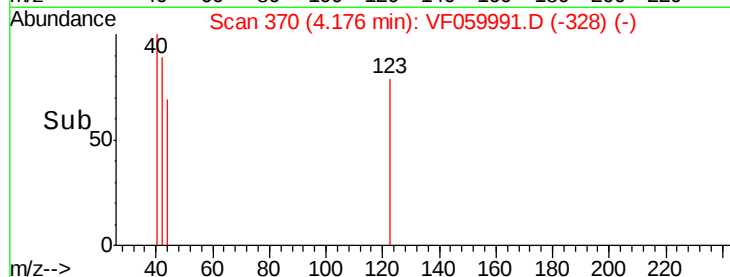
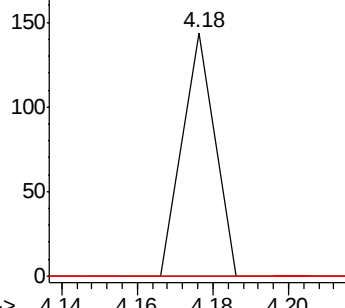
42 100

72 0.0 29.8 44.6#

71 0.0 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



#33

1,2-Dichloroethane-d4

Concen: 9.304 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059991.D

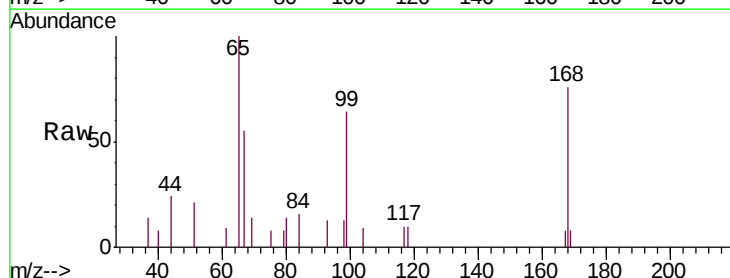
Acq: 18 Aug 2018 00:29

Tgt Ion: 65 Resp: 3315

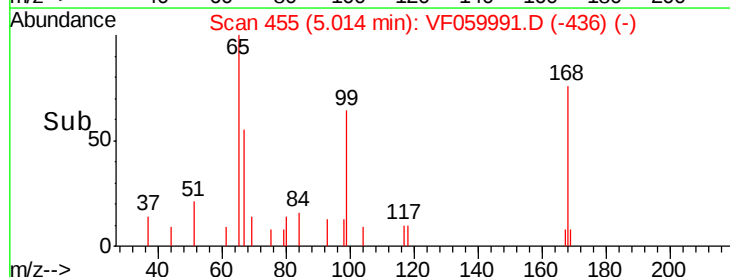
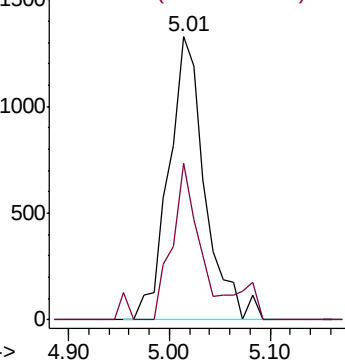
Ion Ratio Lower Upper

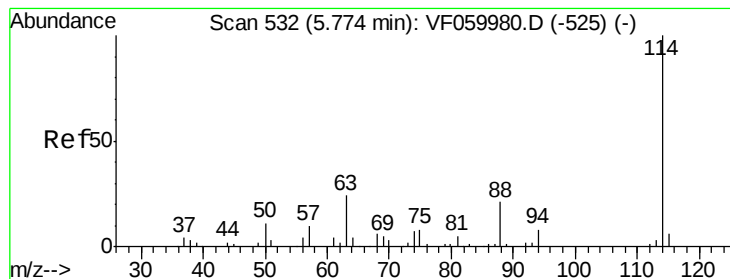
65 100

67 55.3 0.0 82.6



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. -0.01 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

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ClientSampleId :

RA-081318-SSW-15-021RE

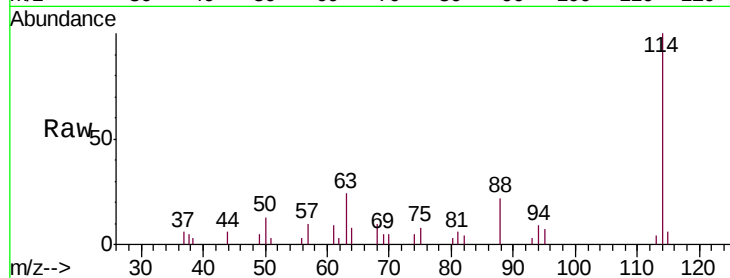
Tgt Ion:114 Resp: 13531

Ion Ratio Lower Upper

114 100

63 23.8 0.0 48.6

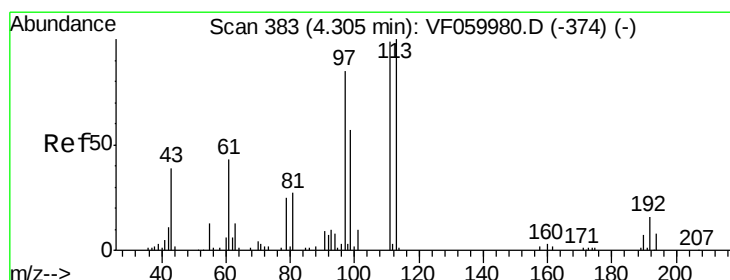
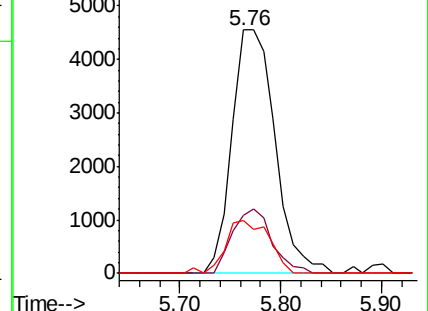
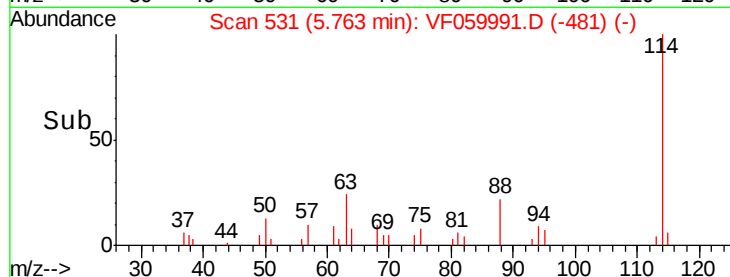
88 21.5 0.0 42.8



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: 33.604 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

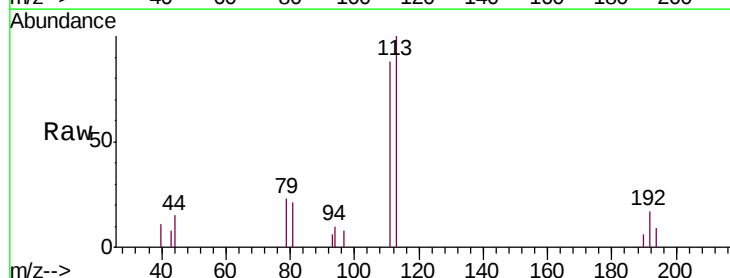
Tgt Ion:113 Resp: 4647

Ion Ratio Lower Upper

113 100

111 87.6 79.5 119.3

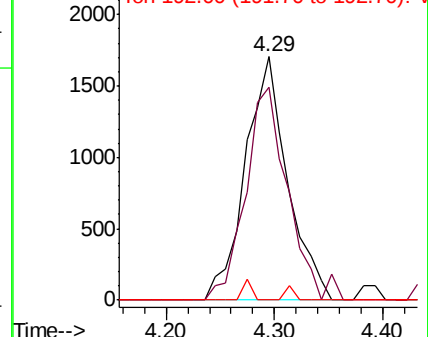
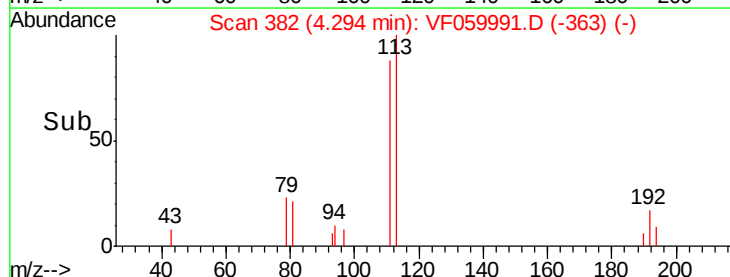
192 0.0 12.4 18.6#

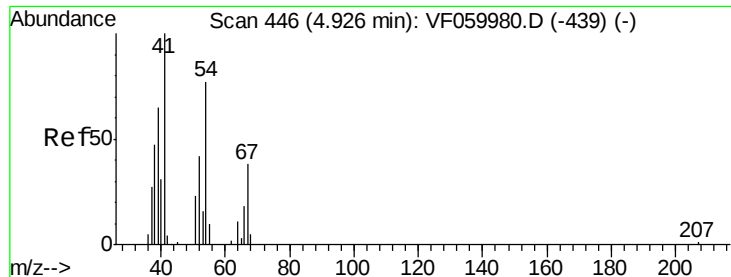


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 2.820 ug/l

RT: 4.84 min Scan# 437

Delta R.T. -0.09 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-15-021RE

Tgt Ion: 41 Resp: 115

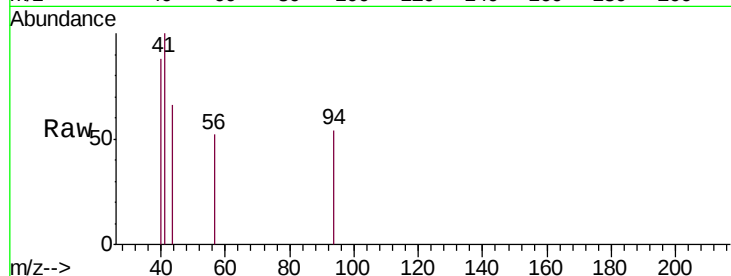
Ion Ratio Lower Upper

41 100

39 0.0 62.9 94.3#

67 0.0 30.4 45.6#

52 0.0 47.8 71.8#

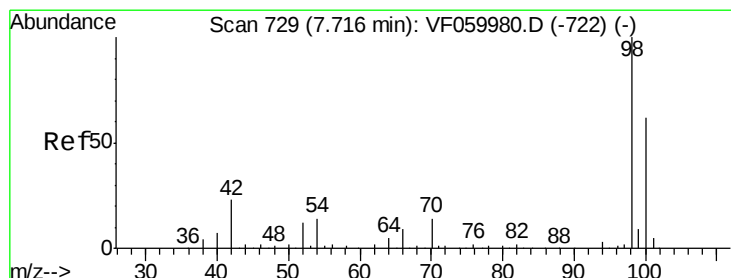
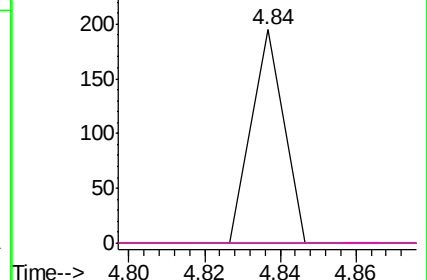
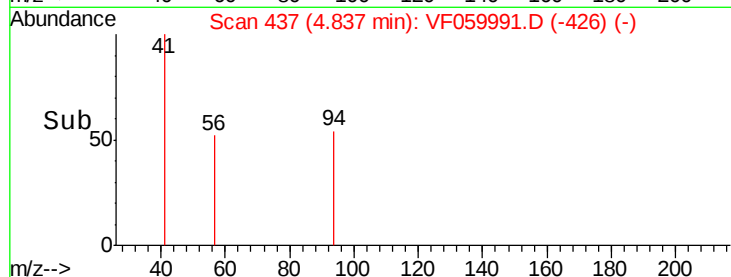


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#50

Toluene-d8

Concen: 49.410 ug/l

RT: 7.71 min Scan# 729

Delta R.T. -0.00 min

Lab File: VF059991.D

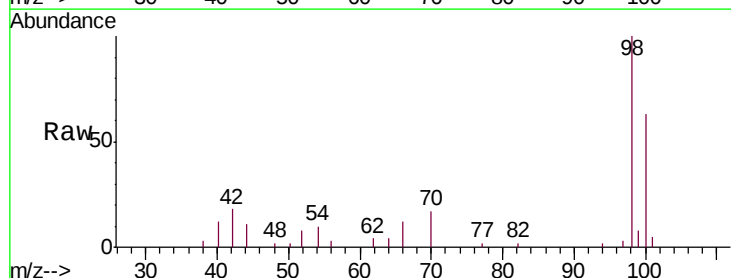
Acq: 18 Aug 2018 00:29

Tgt Ion: 98 Resp: 15195

Ion Ratio Lower Upper

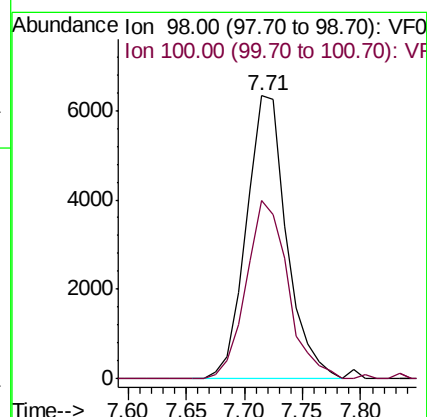
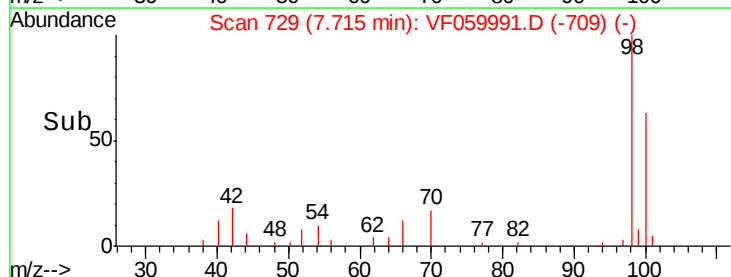
98 100

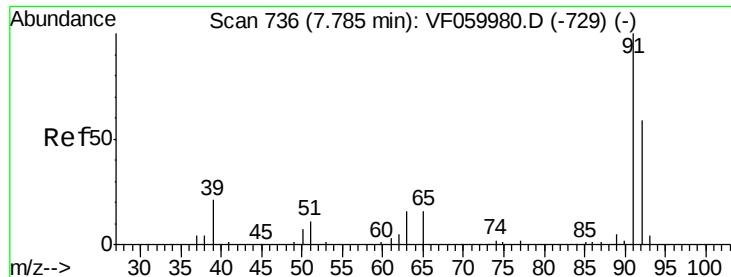
100 62.9 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 8.803 ug/l

RT: 7.81 min Scan# 739

Delta R.T. 0.03 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

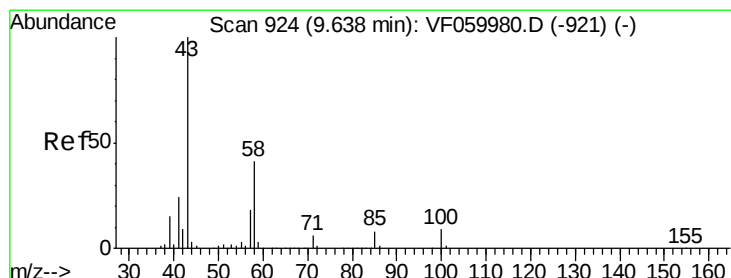
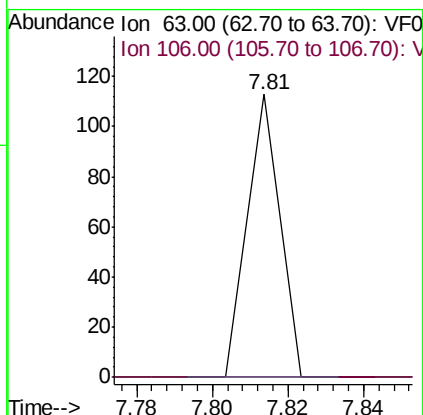
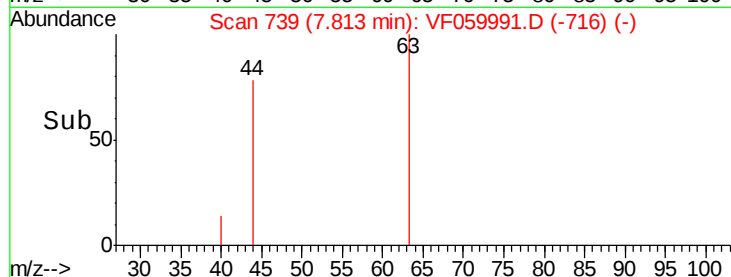
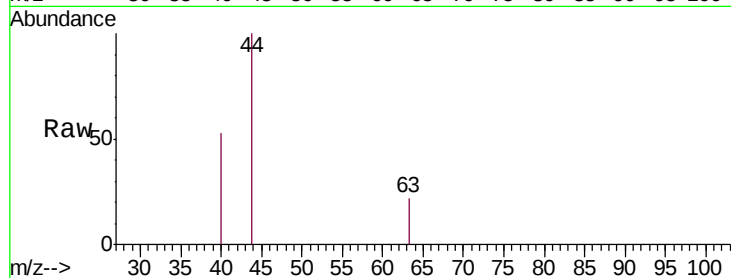
RA-081318-SSW-15-021RE

Tgt Ion: 63 Resp: 67

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



#59

2-Hexanone

Concen: 1.452 ug/l

RT: 9.45 min Scan# 905

Delta R.T. -0.19 min

Lab File: VF059991.D

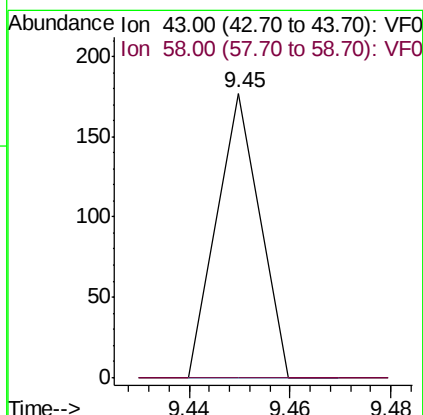
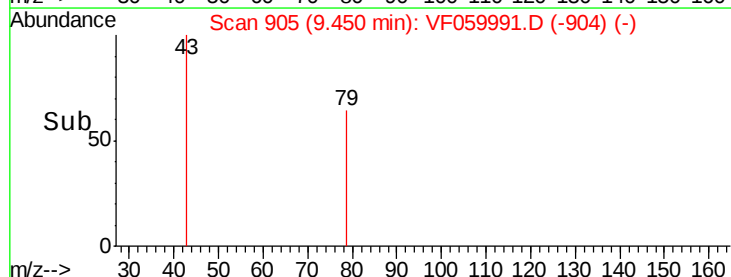
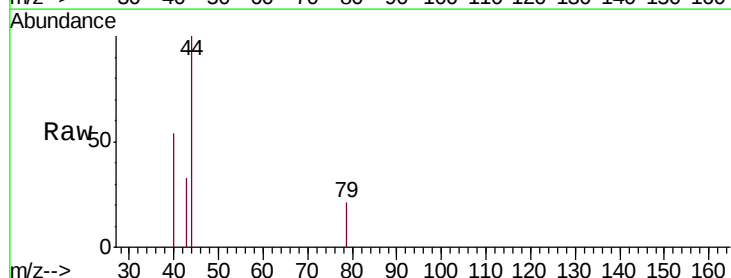
Acq: 18 Aug 2018 00:29

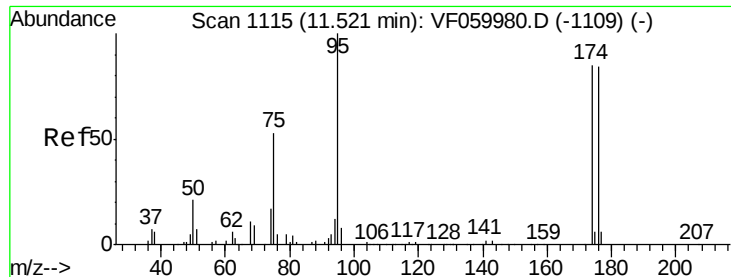
Tgt Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

58 0.0 20.1 60.3#





#62

4-Bromofluorobenzene

Concen: 6.825 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-15-021RE

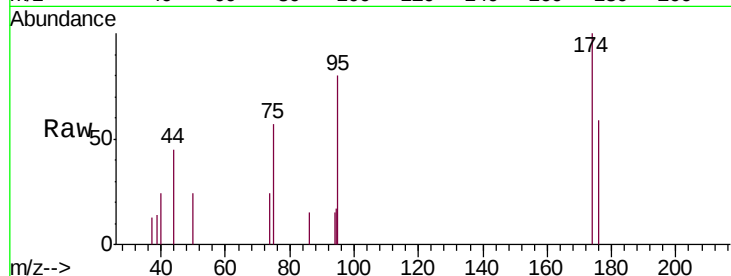
Tgt Ion: 95 Resp: 1288

Ion Ratio Lower Upper

95 100

174 125.1 0.0 169.8

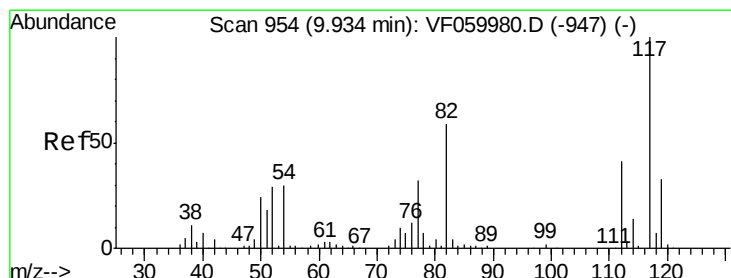
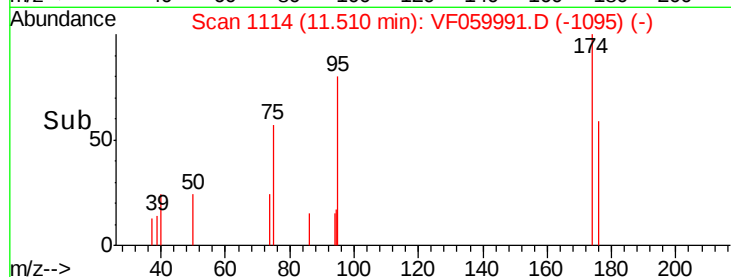
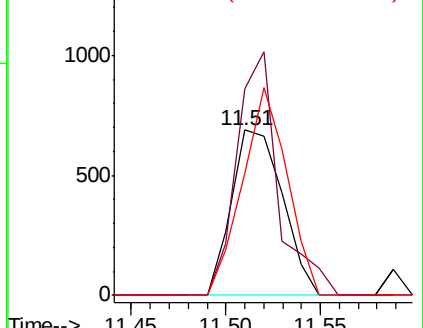
176 74.0 0.0 167.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

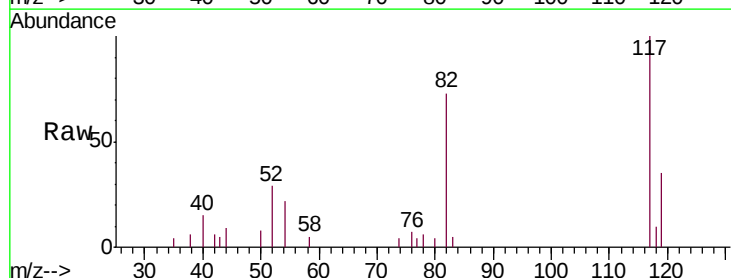
Tgt Ion: 117 Resp: 7913

Ion Ratio Lower Upper

117 100

82 73.2 47.2 70.8#

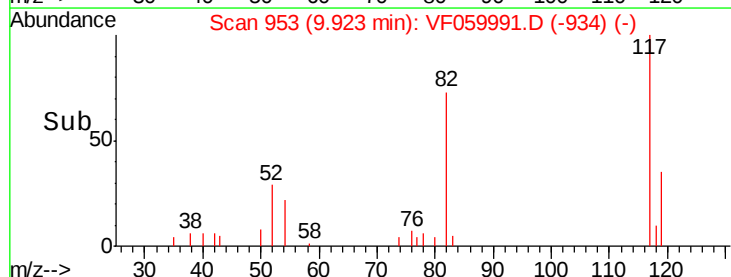
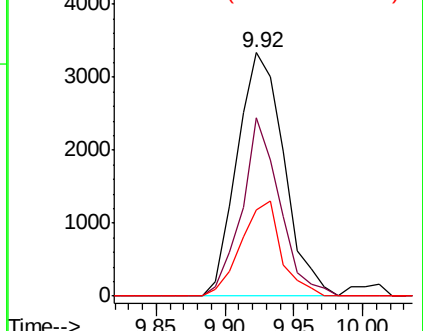
119 35.5 26.1 39.1

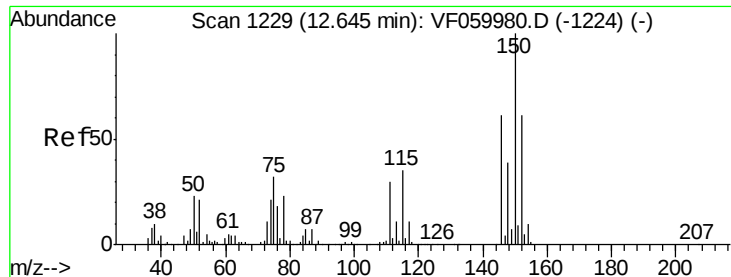


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Instrument :

MSVOA_F

ClientSampleId :

RA-081318-SSW-15-021RE

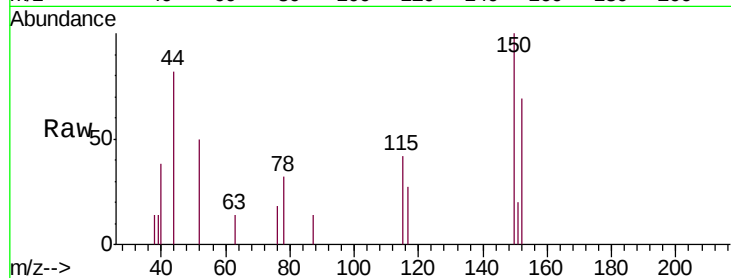
Tgt Ion: 152 Resp: 931

Ion Ratio Lower Upper

152 100

115 60.8 29.1 87.3

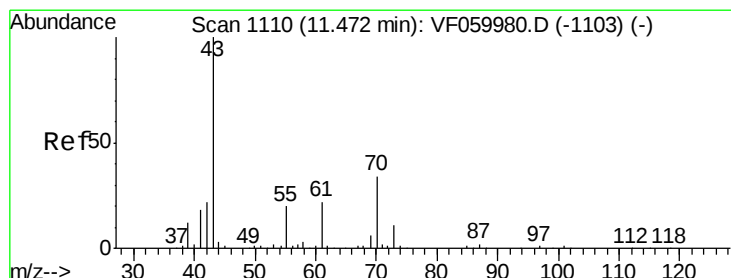
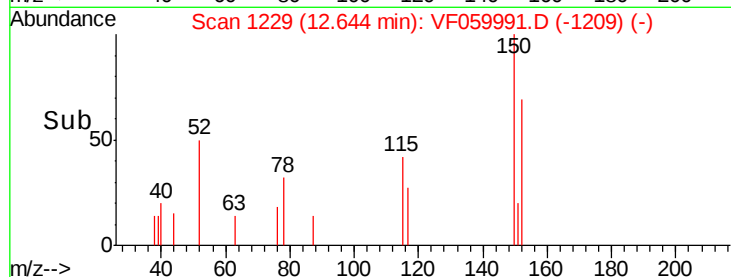
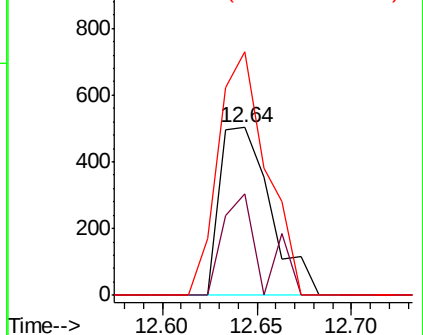
150 145.2 0.0 330.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 3.915 ug/l

RT: 11.37 min Scan# 1100

Delta R.T. -0.10 min

Lab File: VF059991.D

Acq: 18 Aug 2018 00:29

Tgt Ion: 43 Resp: 62

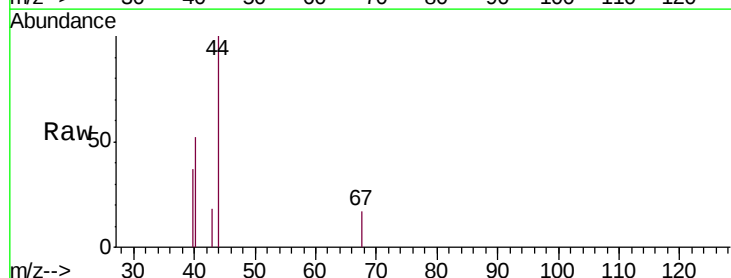
Ion Ratio Lower Upper

43 100

70 0.0 27.2 40.8#

55 0.0 16.4 24.6#

61 0.0 17.6 26.4#

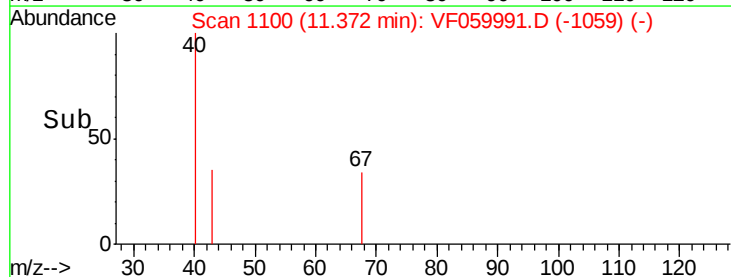
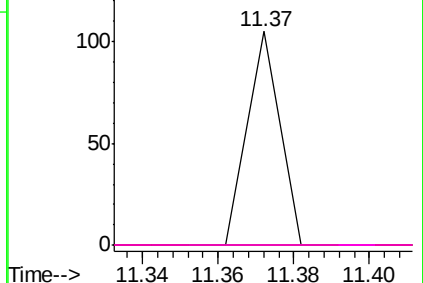


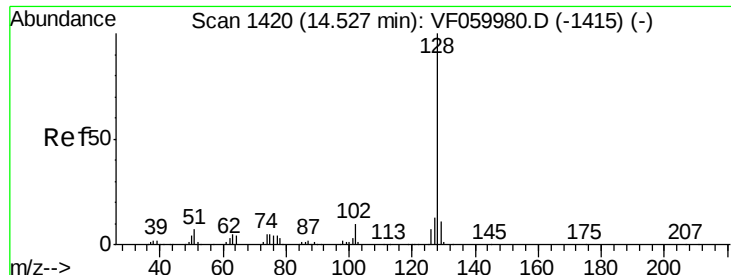
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

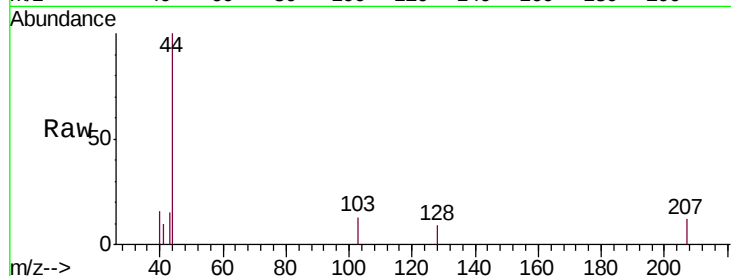




#95
Naphthalene
Concen: 1.959 ug/l
RT: 14.58 min Scan# 1425
Delta R.T. 0.05 min
Lab File: VF059991.D
Acq: 18 Aug 2018 00:29

Instrument :
MSVOA_F
ClientSampleId :
RA-081318-SSW-15-021RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	9.0	13.4#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

