

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060081.D
 Acq On : 24 Aug 2018 5:59
 Operator : VA/AP
 Sample : J4612-01
 Misc : 5.21a/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200028

Quant Time: Aug 24 09:21:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	126	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.76	114	63	50.00	ug/l	-0.02
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	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
50) Toluene-d8	7.70	98	73	51.96	ug/l	-0.03
Spiked Amount						
			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	

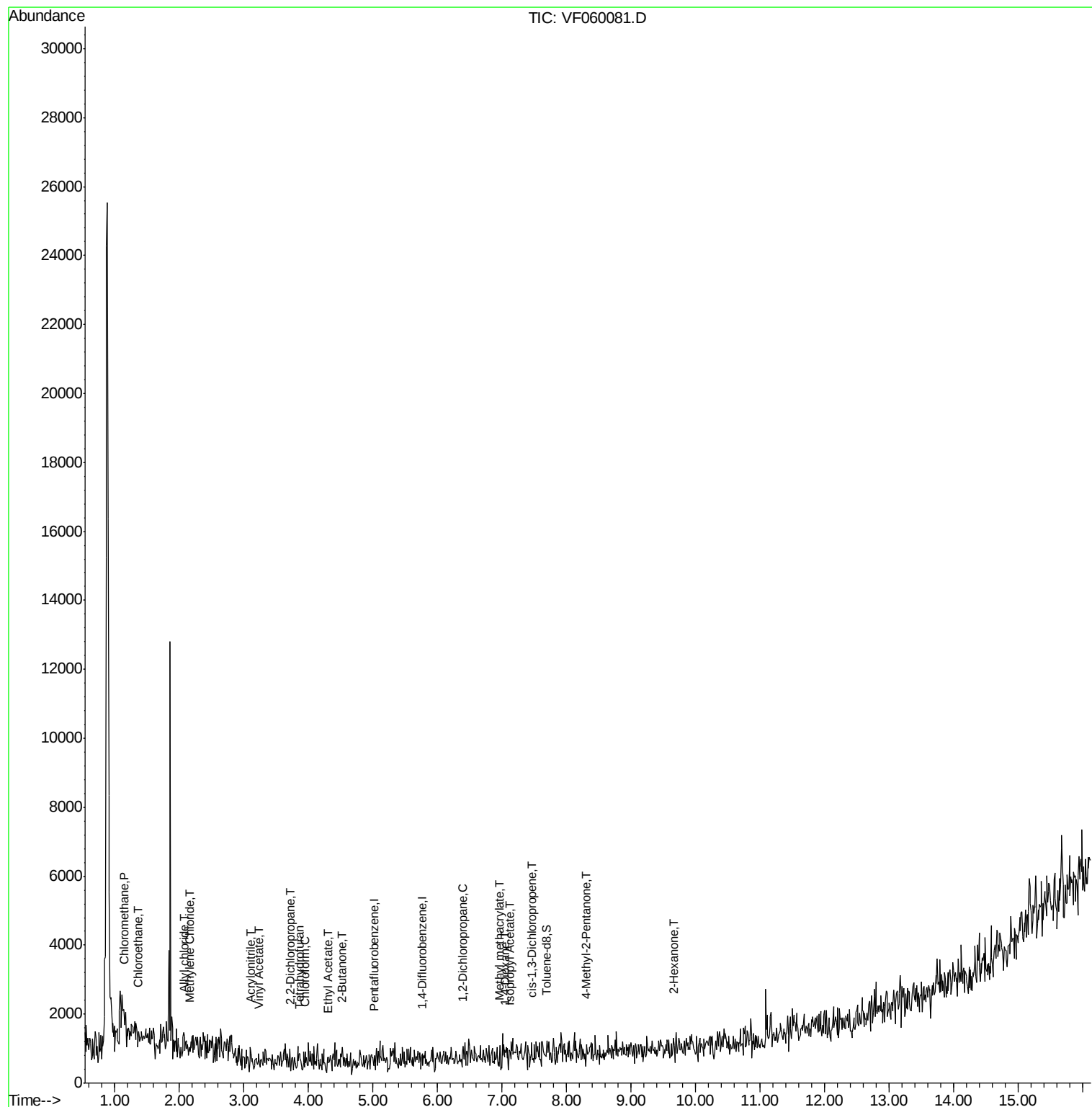
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.13	50	97	93.29	ug/l #	40
6) Chloroethane	1.37	64	515	1268.49	ug/l #	45
14) Allyl chloride	2.09	41	65	45.69	ug/l #	1
15) Acrylonitrile	3.11	53	137	756.73	ug/l #	11
20) Methylene Chloride	2.16	84	60	69.19	ug/l #	1
23) Vinyl Acetate	3.23	43	82	48.59	ug/l #	80
25) 2-Butanone	4.53	43	124	210.63	ug/l #	58
26) 2,2-Dichloropropane	3.70	77	76	37.33	ug/l #	57
29) Tetrahydrofuran	3.87	42	75	337.43	ug/l #	37
30) Chloroform	3.95	83	68	24.62	ug/l #	19
37) Ethyl Acetate	4.31	43	118	333.27	ug/l #	1
43) Isopropyl Acetate	7.12	43	72	161.57	ug/l #	45
45) 1,2-Dichloropropane	6.38	63	76	207.75	ug/l #	45
48) Methyl methacrylate	6.97	41	60	203.47	ug/l #	15
49) 1,4-Dioxane	7.04	88	88	31085.83	ug/l #	18
51) 4-Methyl-2-Pentanone	8.32	43	63	163.71	ug/l #	39
54) cis-1,3-Dichloropropene	7.46	75	85	121.47	ug/l #	24
59) 2-Hexanone	9.66	43	99	317.85	ug/l #	30

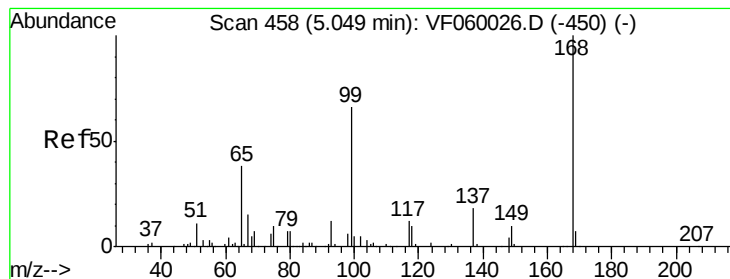
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.03 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

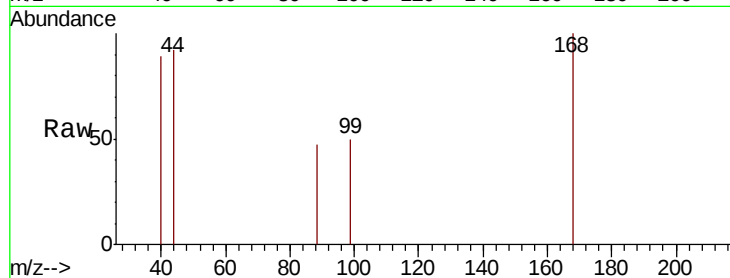
RBR200028

Tot Ion:168 Resp: 126

Ion Ratio Lower Upper

168 100

99 49.8 52.6 79.0#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

200

150

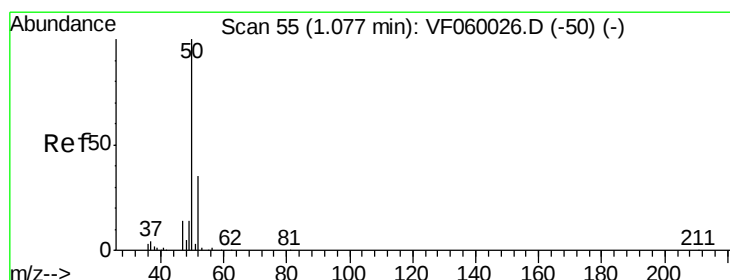
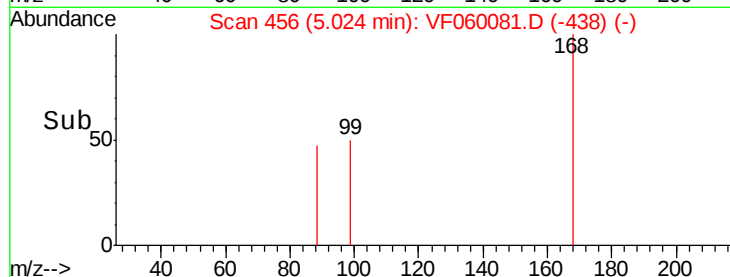
100

50

0

5.00 5.02 5.04

Time-->



#3

Chloromethane

Concen: 93.29 ug/l

RT: 1.13 min Scan# 61

Delta R.T. 0.05 min

Lab File: VF060081.D

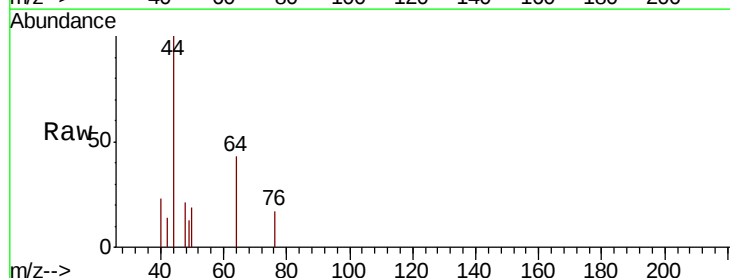
Acq: 24 Aug 2018 5:59

Tgt Ion: 50 Resp: 97

Ion Ratio Lower Upper

50 100

52 0.0 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.13

150

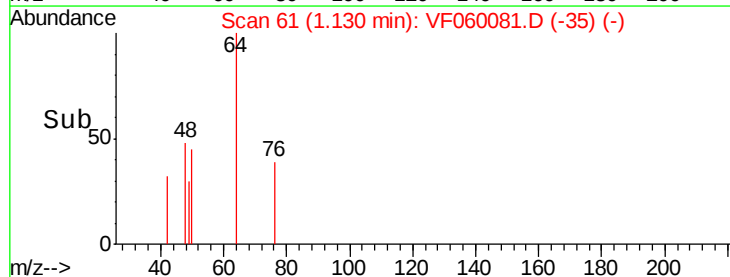
100

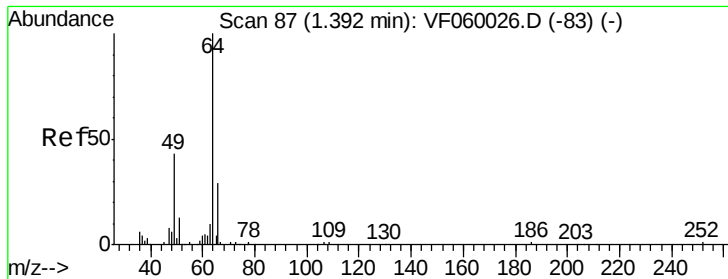
50

0

1.10 1.12 1.14 1.16

Time-->





#6

Chloroethane

Concen: 1268.49 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.03 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

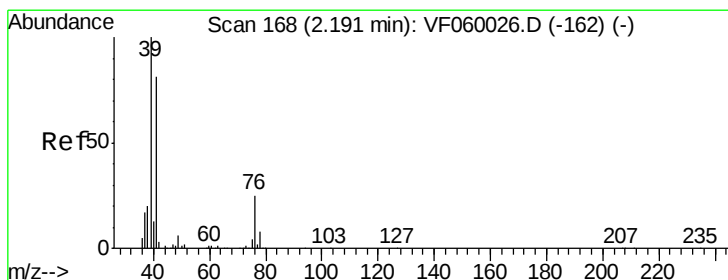
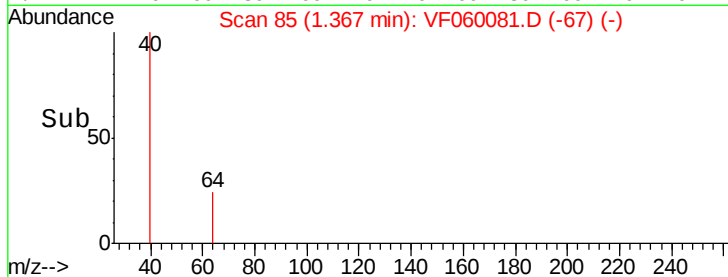
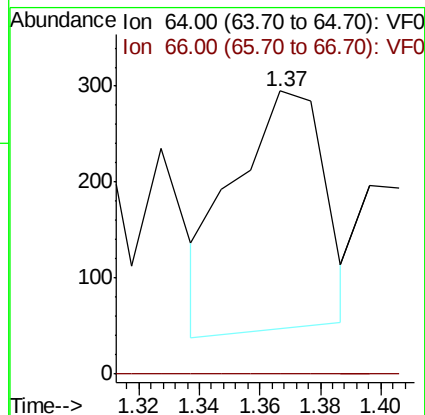
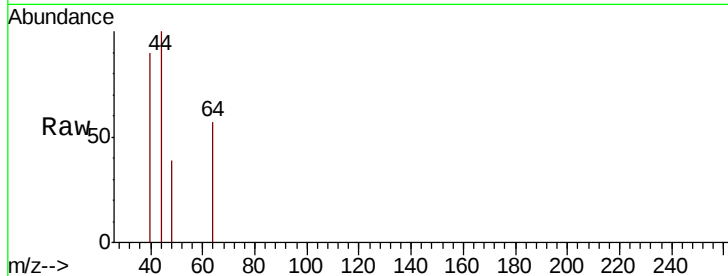
RBR200028

Tot Ion: 64 Resp: 515

Ion Ratio Lower Upper

64 100

66 0.0 24.1 36.1#



#14

Allyl chloride

Concen: 45.69 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.10 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

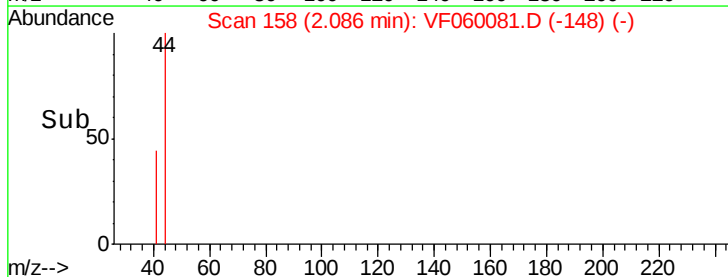
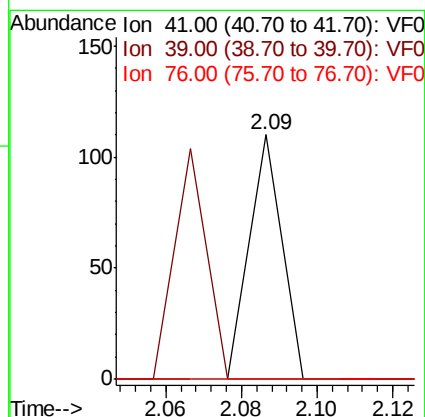
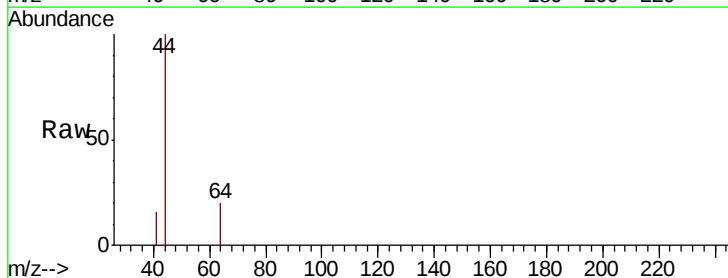
Tgt Ion: 41 Resp: 65

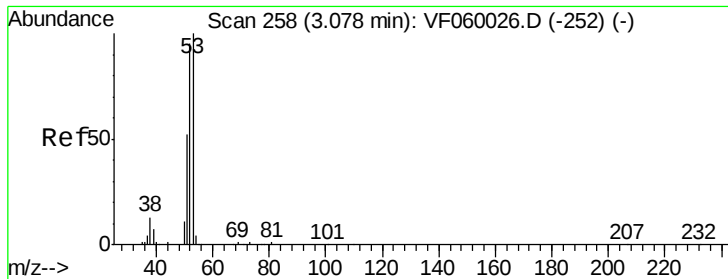
Ion Ratio Lower Upper

41 100

39 0.0 99.3 148.9#

76 0.0 24.3 36.5#





#15

Acrylonitrile

Concen: 756.73 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200028

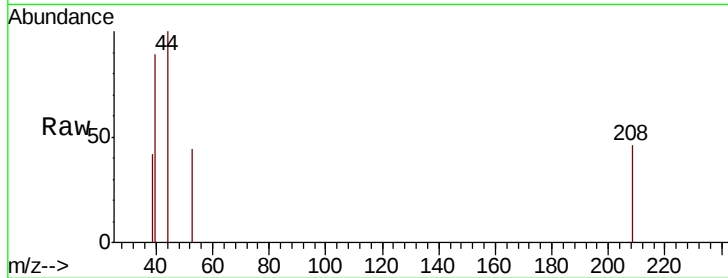
Tot Ion: 53 Resp: 137

Ion Ratio Lower Upper

53 100

52 0.0 75.8 113.8#

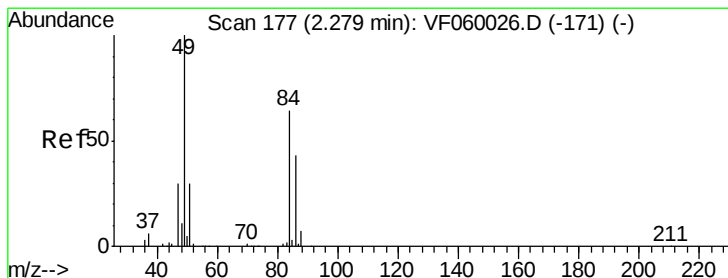
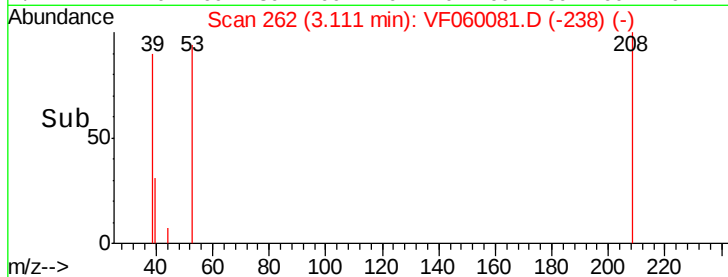
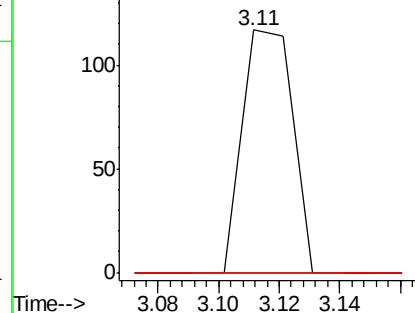
51 0.0 42.1 63.1#



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



#20

Methylene Chloride

Concen: 69.19 ug/l

RT: 2.16 min Scan# 165

Delta R.T. -0.12 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Tgt Ion: 84 Resp: 60

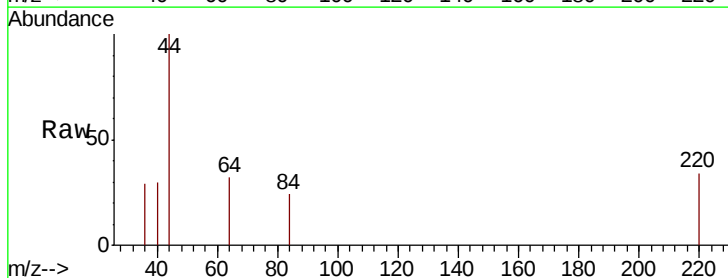
Ion Ratio Lower Upper

84 100

49 0.0 125.4 188.0#

51 0.0 38.3 57.5#

86 0.0 53.3 79.9#

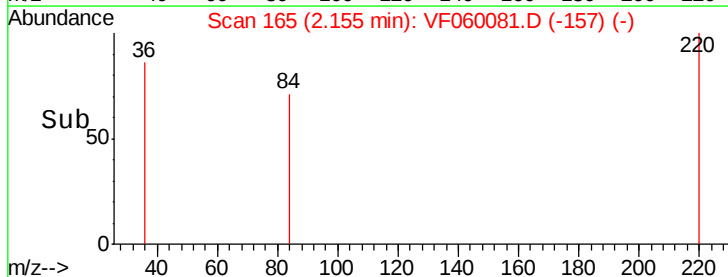
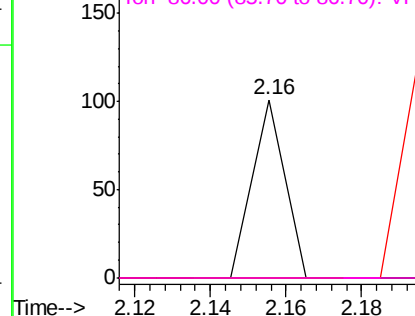


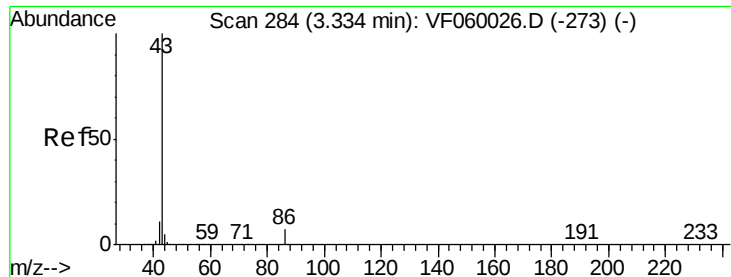
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#23

Vinyl Acetate

Concen: 48.59 ug/l

RT: 3.23 min Scan# 274

Delta R.T. -0.10 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

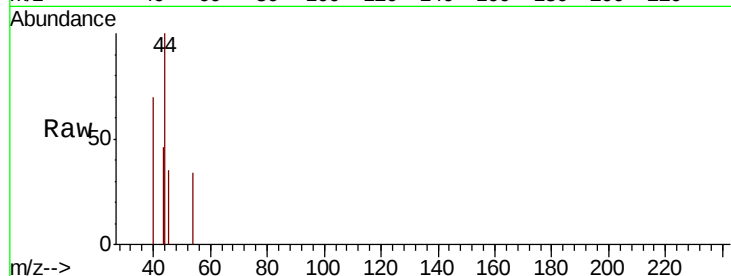
RBR200028

Tot Ion: 43 Resp: 82

Ion Ratio Lower Upper

43 100

86 0.0 5.6 8.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.23

150

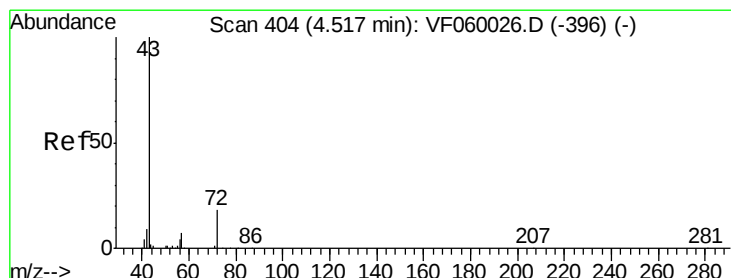
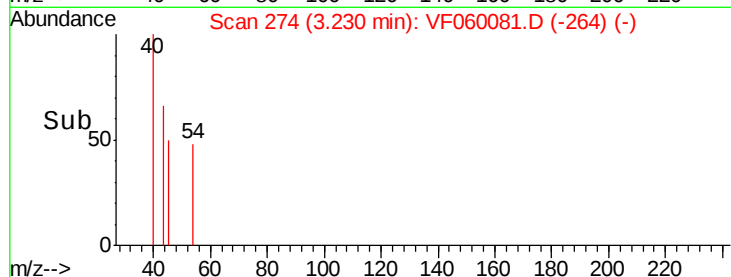
100

50

0

Time-->

3.20 3.22 3.24 3.26



#25

2-Butanone

Concen: 210.63 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF060081.D

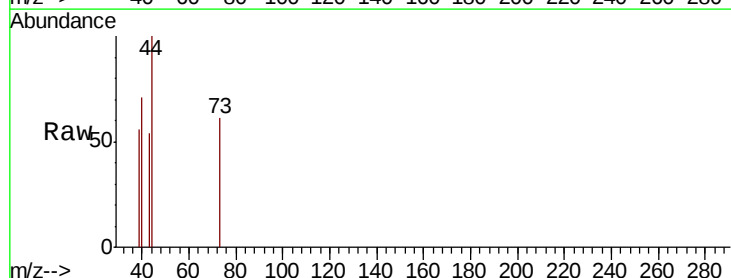
Acq: 24 Aug 2018 5:59

Tgt Ion: 43 Resp: 124

Ion Ratio Lower Upper

43 100

72 0.0 15.0 22.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.53

120

100

80

60

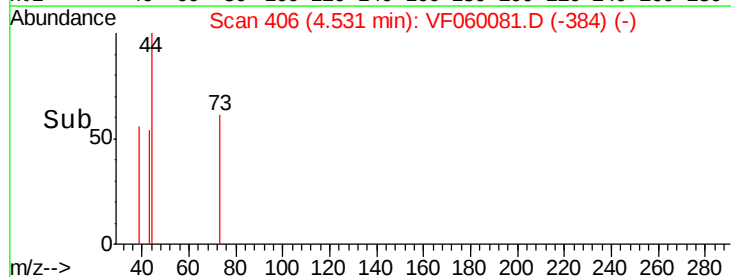
40

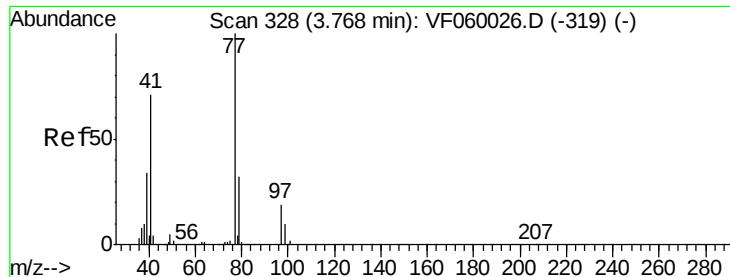
20

0

Time-->

4.50 4.55





#26

2,2-Dichloropropane

Concen: 37.33 ug/l

RT: 3.70 min Scan# 322

Delta R.T. -0.06 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampled :

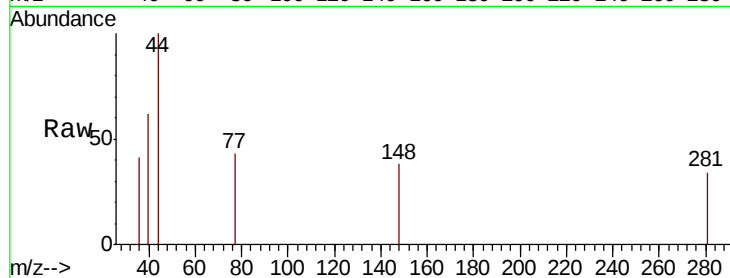
RBR200028

Tot Ion: 77 Resp: 76

Ion Ratio Lower Upper

77 100

97 0.0 9.7 29.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.70

150

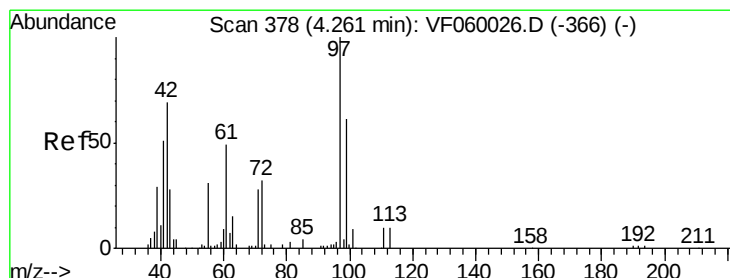
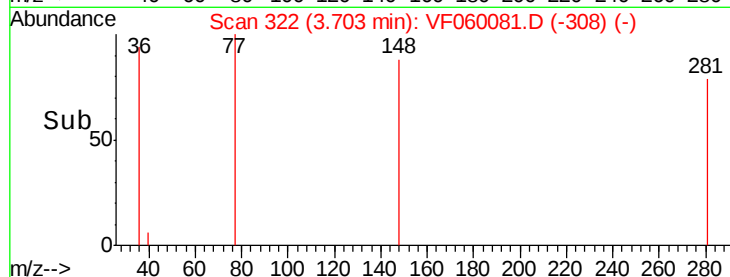
100

50

0

3.68 3.70 3.72

Time-->



#29

Tetrahydrofuran

Concen: 337.43 ug/l

RT: 3.87 min Scan# 339

Delta R.T. -0.39 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

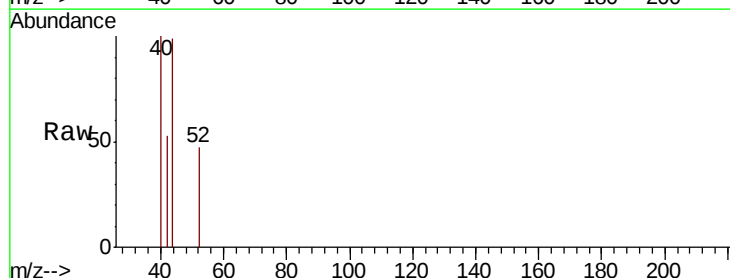
Tgt Ion: 42 Resp: 75

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 29.7 44.5#



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

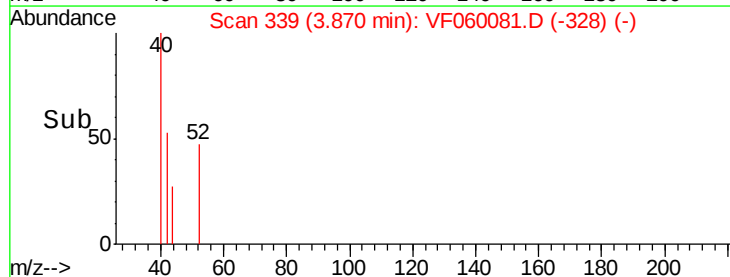
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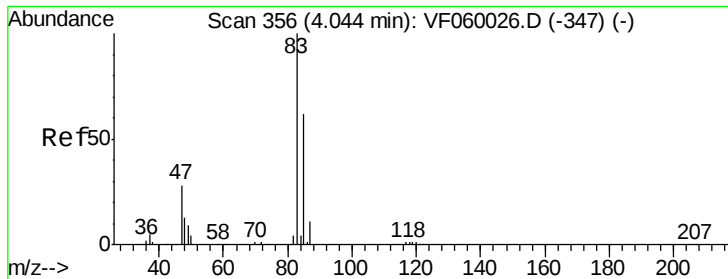
50

0

3.84 3.86 3.88 3.90

Time-->

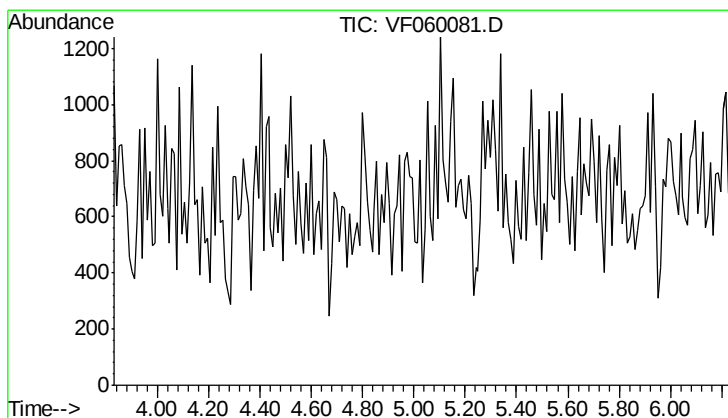
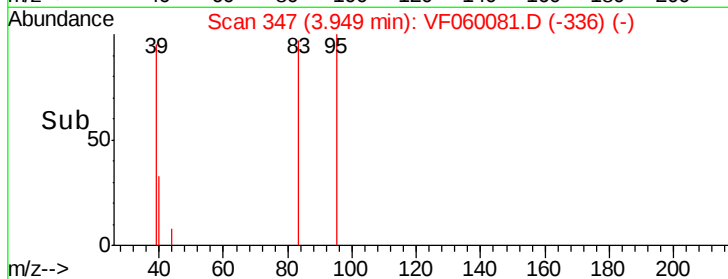
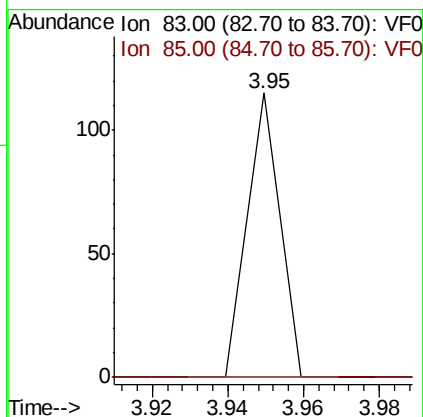
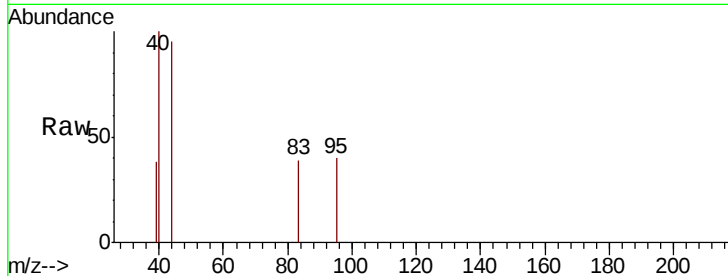




#30
Chloroform
Concen: 24.62 ug/l
RT: 3.95 min Scan# 347
Delta R.T. -0.09 min
Lab File: VF060081.D
Acq: 24 Aug 2018 5:59

Instrument :
MSVOA_F
ClientSampleId :
RBR200028

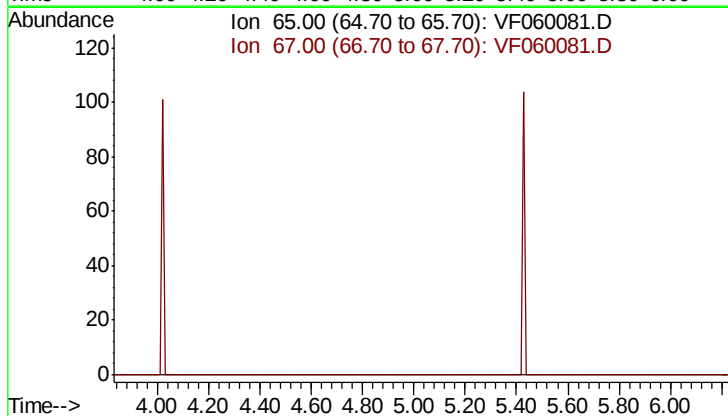
Tot Ion: 83 Resp: 68
Ion Ratio Lower Upper
83 100
85 0.0 49.5 74.3#

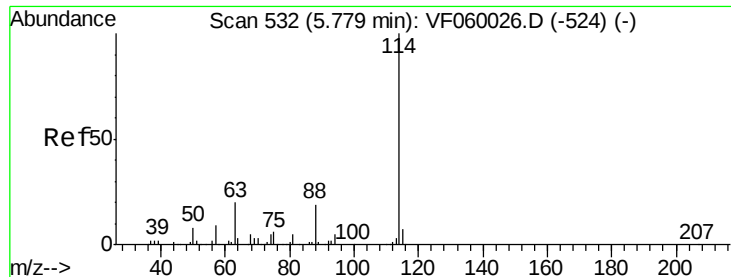


#33
1,2-Dichloroethane-d4
Concen: 0.00 ug/l
Expected RT: 5.03 min

Lab File: VF060081.D
Acq: 24 Aug 2018 5:59

Tgt Ion: 65
Sig Exp Ratio
65 100
67 46.0

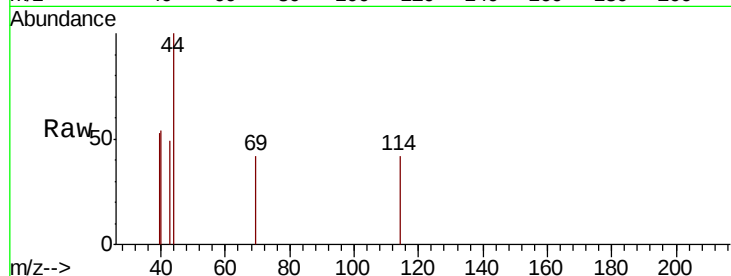




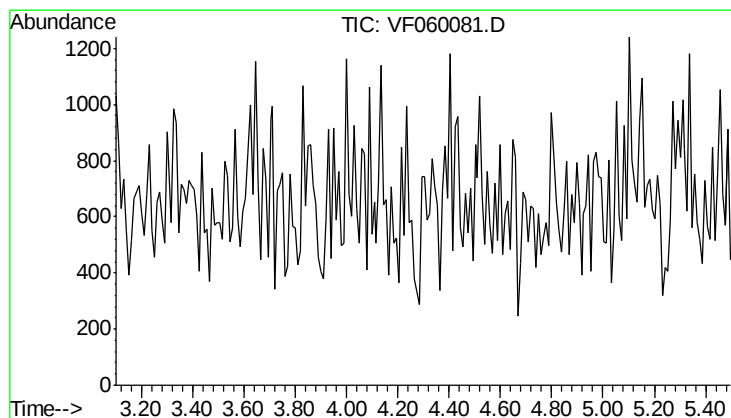
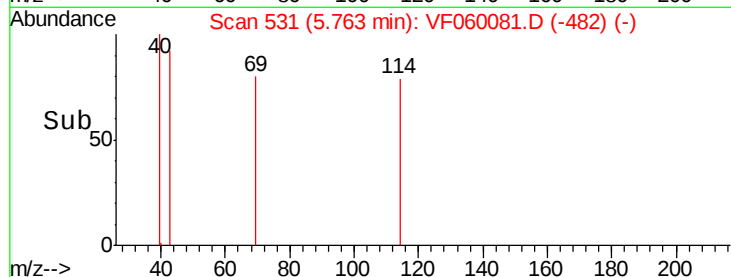
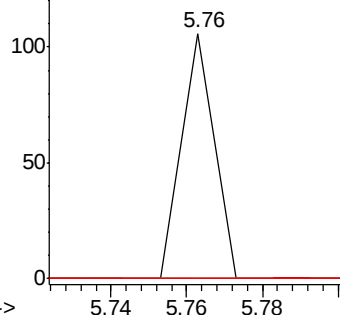
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF060081.D
 Acq: 24 Aug 2018 5:59

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200028

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	40.4
88	0.0	0.0	38.6



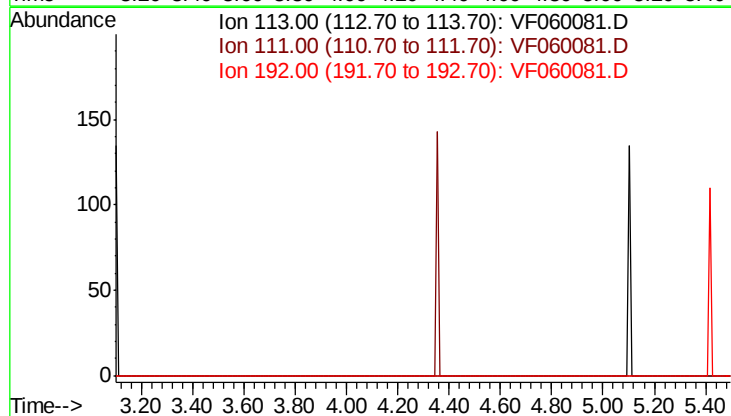
Abundance Ion 114.00 (113.70 to 114.70): VF060081.D
 Ion 63.00 (62.70 to 63.70): VF060081.D
 Ion 88.00 (87.70 to 88.70): VF060081.D

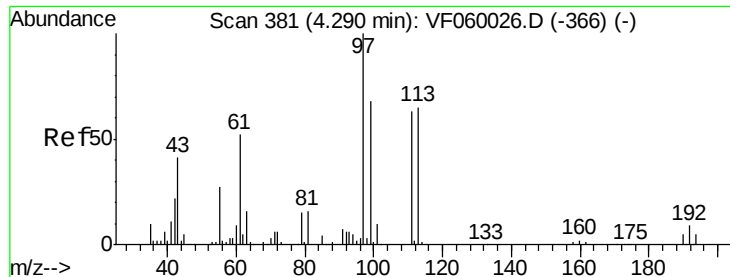


#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 4.30 min

Lab File: VF060081.D
 Acq: 24 Aug 2018 5:59

Tgt Ion	Exp Ratio
113	100
111	103.4
192	16.2





#37

Ethyl Acetate

Concen: 333.27 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampled :

RBR200028

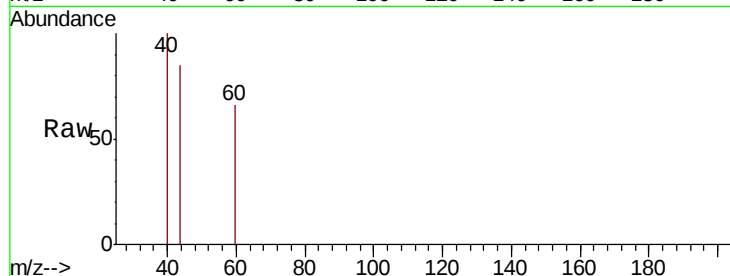
Tot Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

61 0.0 101.5 152.3#

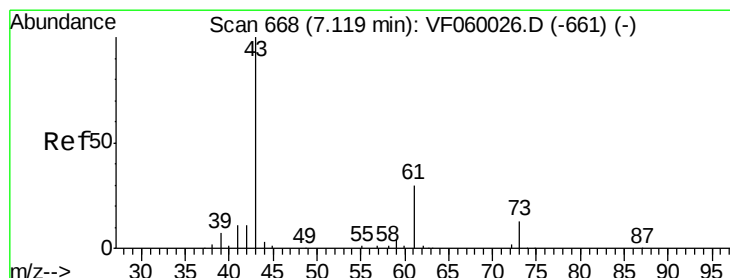
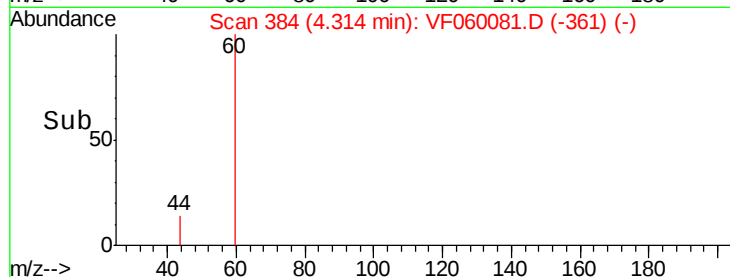
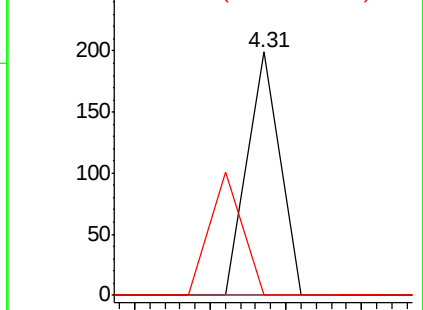
70 0.0 6.4 9.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#43

Isopropyl Acetate

Concen: 161.57 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.00 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

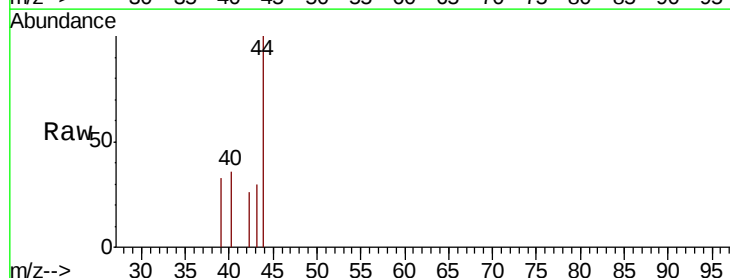
Tgt Ion: 43 Resp: 72

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.6#

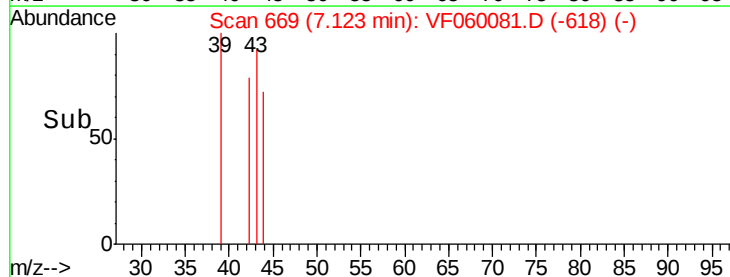
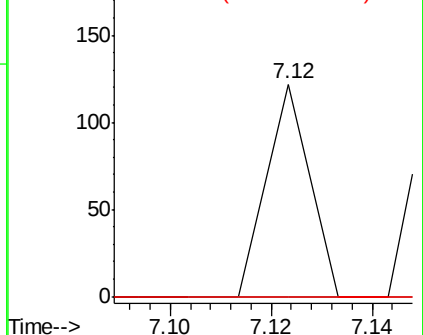
87 0.0 0.2 0.4#

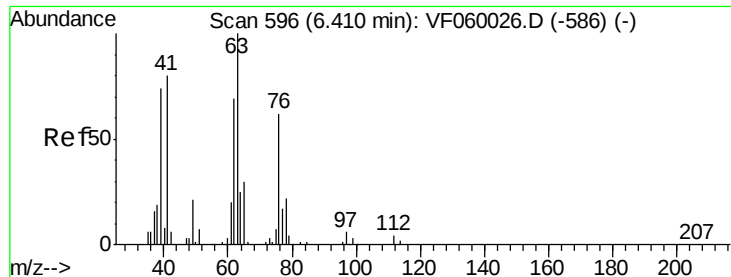


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 207.75 ug/l

RT: 6.38 min Scan# 594

Delta R.T. -0.03 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

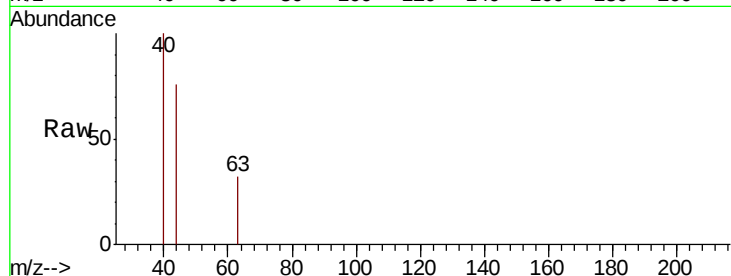
RBR200028

Tot Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

65 0.0 23.8 35.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

150

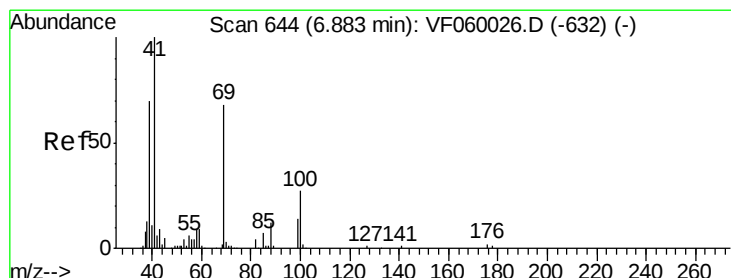
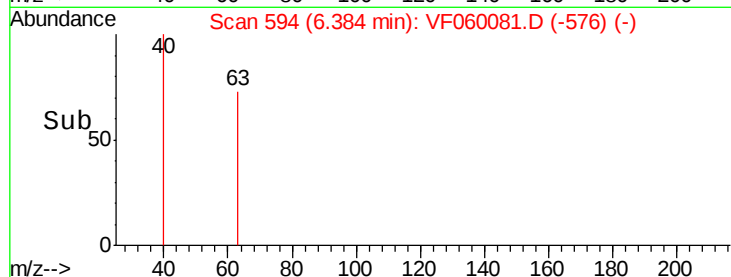
100

50

0

6.36 6.38 6.40

Time-->



#48

Methyl methacrylate

Concen: 203.47 ug/l

RT: 6.97 min Scan# 653

Delta R.T. 0.08 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

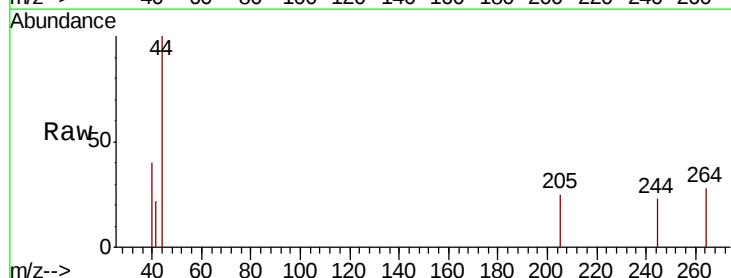
Tgt Ion: 41 Resp: 60

Ion Ratio Lower Upper

41 100

69 0.0 54.6 81.8#

39 0.0 56.5 84.7#



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

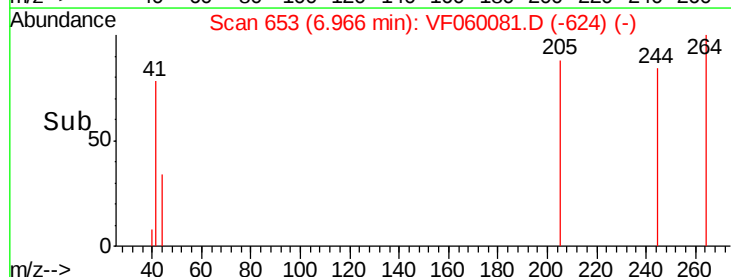
100

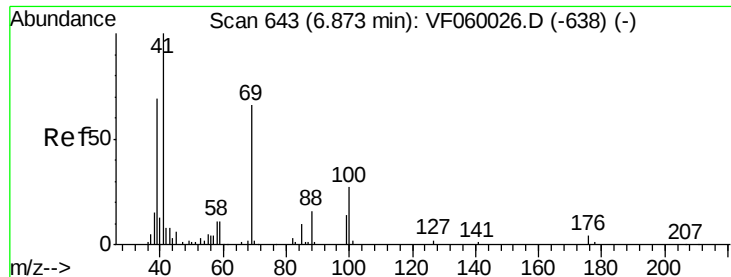
50

0

6.94 6.96 6.98

Time-->





#49

1,4-Dioxane

Concen: 31085.83 ug/l

RT: 7.04 min Scan# 661

Delta R.T. 0.17 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200028

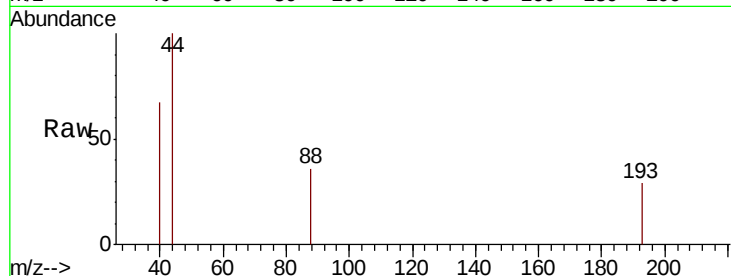
Tot Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 0.0 46.5 69.7#

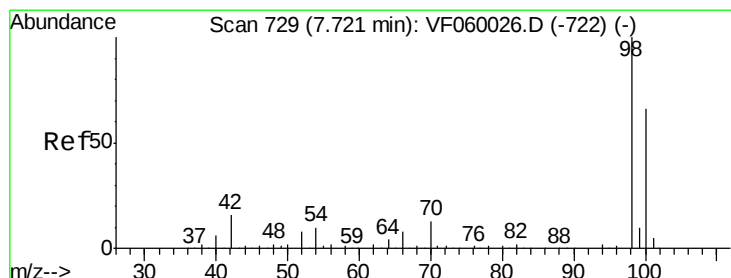
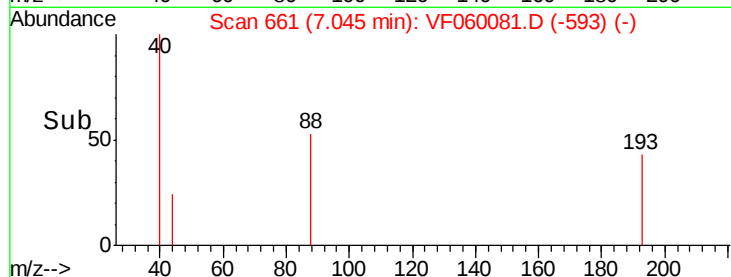
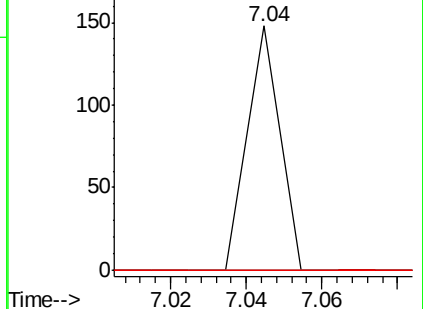
58 0.0 54.8 82.2#



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: 51.96 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.03 min

Lab File: VF060081.D

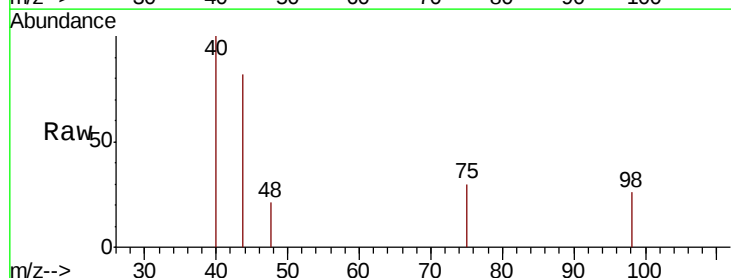
Acq: 24 Aug 2018 5:59

Tgt Ion: 98 Resp: 73

Ion Ratio Lower Upper

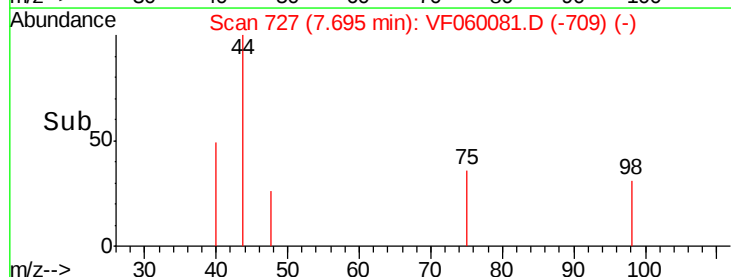
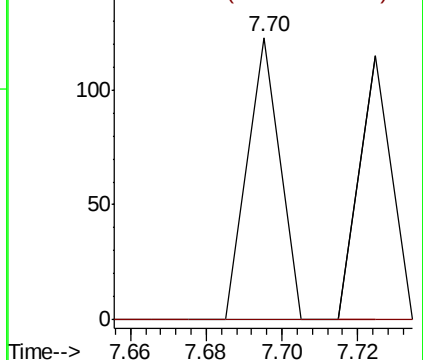
98 100

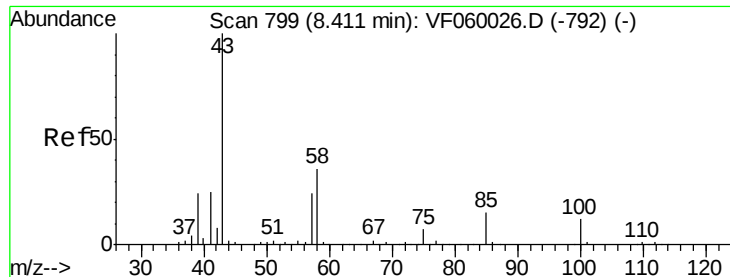
100 0.0 53.2 79.8#



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: 163.71 ug/l

RT: 8.32 min Scan# 790

Delta R.T. -0.09 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

Instrument :

MSVOA_F

ClientSampled :

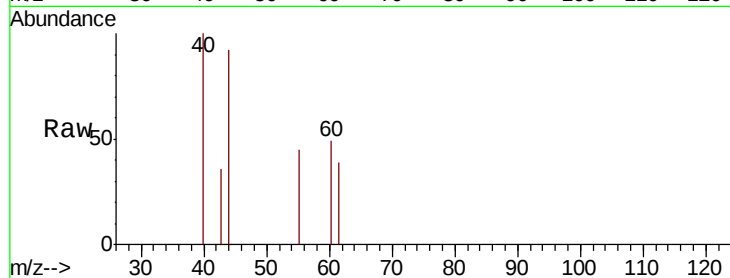
RBR200028

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

58 0.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.32

100

80

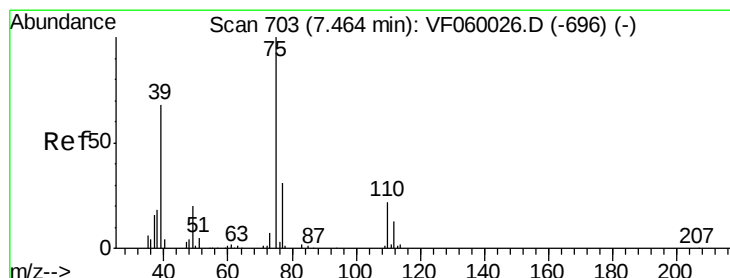
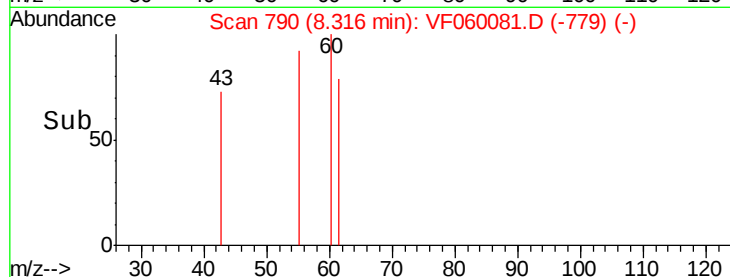
60

40

20

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 121.47 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060081.D

Acq: 24 Aug 2018 5:59

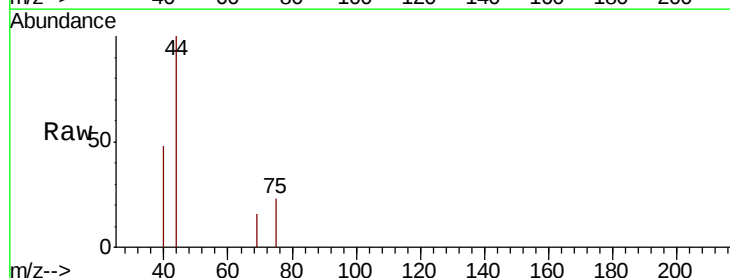
Tgt Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 0.0 54.6 81.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

200

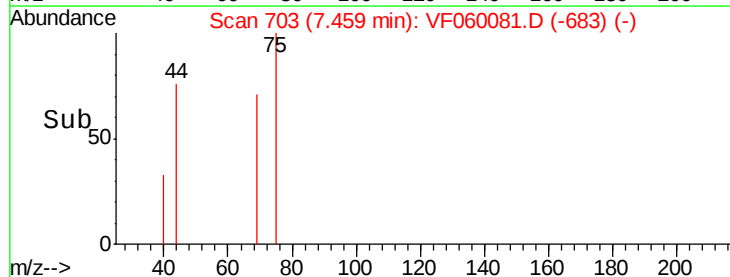
150

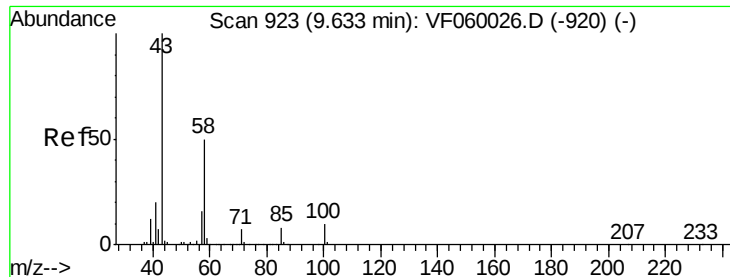
100

50

0

Time-->

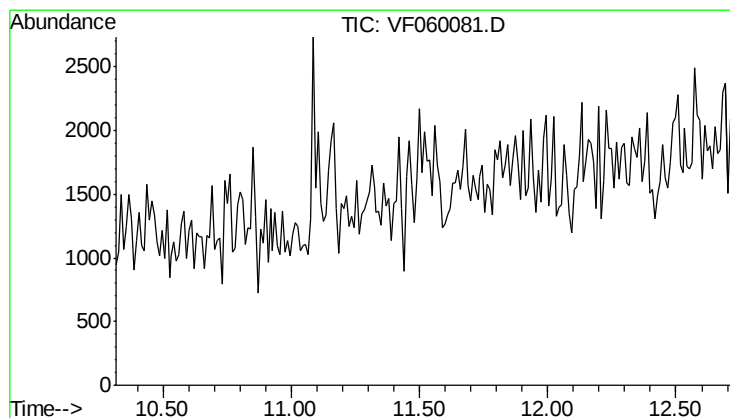
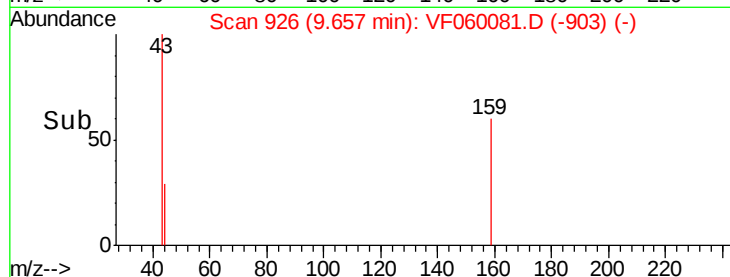
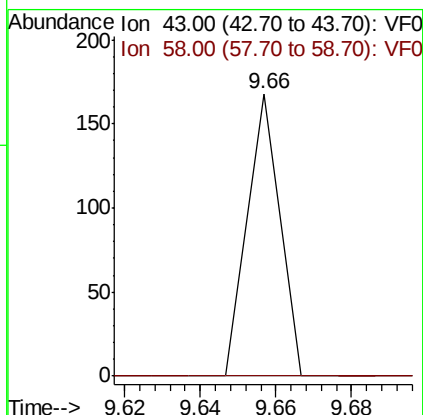
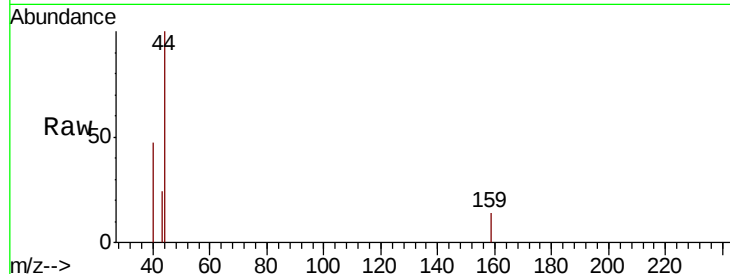




#59
2-Hexanone
Concen: 317.85 ug/l
RT: 9.66 min Scan# 926
Delta R.T. 0.02 min
Lab File: VF060081.D
Acq: 24 Aug 2018 5:59

Instrument :
MSVOA_F
ClientSampleId :
RBR200028

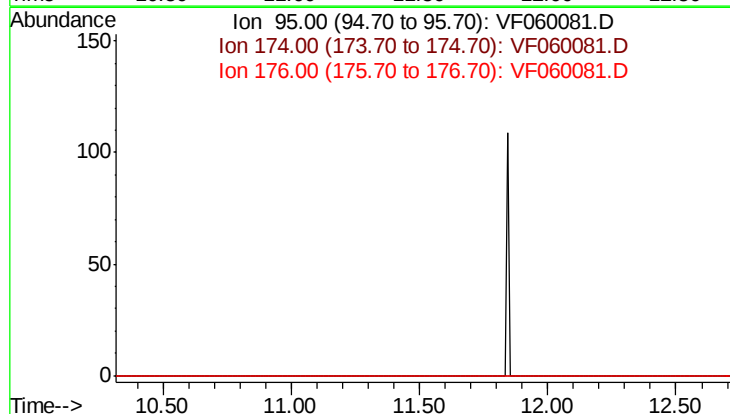
Tot Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
58 0.0 23.4 70.2#

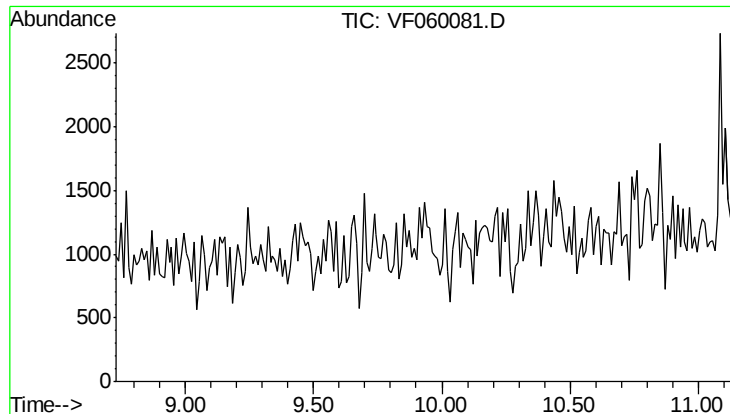


#62
4-Bromofluorobenzene
Concen: 0.00 ug/l
Expected RT: 11.52 min

Lab File: VF060081.D
Acq: 24 Aug 2018 5:59

Tgt Ion: 95
Sig Exp Ratio
95 100
174 79.2
176 76.5



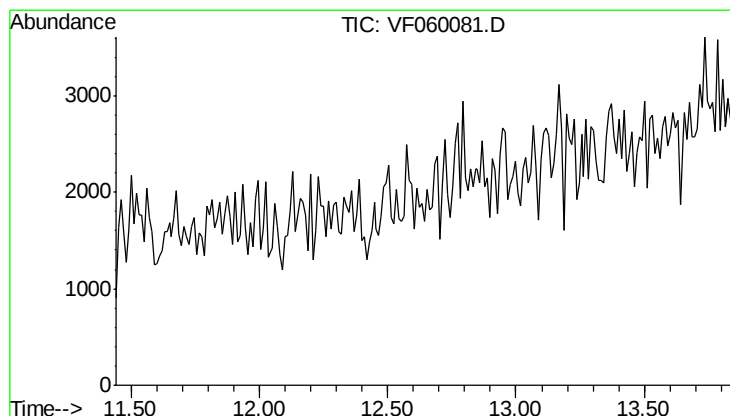
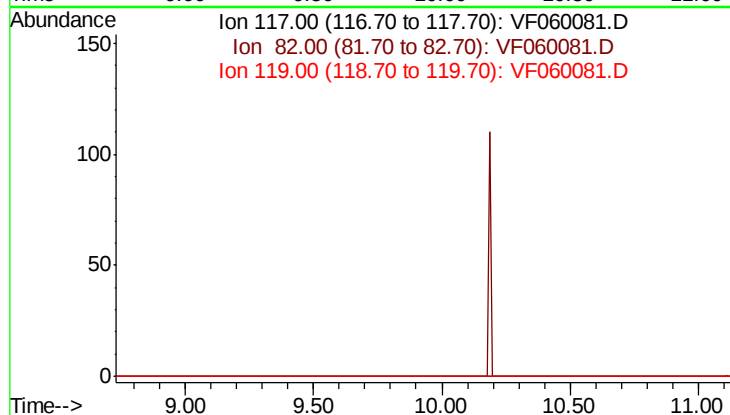


#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.93 min

Lab File: VF060081.D
 Acq: 24 Aug 2018 5:59

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200028

Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 54.5
 119 32.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ug/l
 Expected RT: 12.64 min

Lab File: VF060081.D
 Acq: 24 Aug 2018 5:59

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 115 57.3
 150 156.0

