

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059557.D
 Acq On : 19 Jul 2018 13:32
 Operator : VA/AP
 Sample : J4030-10
 Misc : 5.93g/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB8-10

Quant Time: Jul 19 14:43:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.05
34) 1,4-Difluorobenzene	5.56	114	60	50.00	ug/l	-0.22
63) Chlorobenzene-d5	9.68	117	96	50.00	ug/l	-0.25
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	5.03	65	68	0.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	4.13	113	69	132.78	ug/l	-0.17
Spiked Amount 50.000			Recovery =	265.56%		
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
62) 4-Bromofluorobenzene	11.16	95	143	208.25	ug/l	-0.36
Spiked Amount 50.000			Recovery =	416.50%		

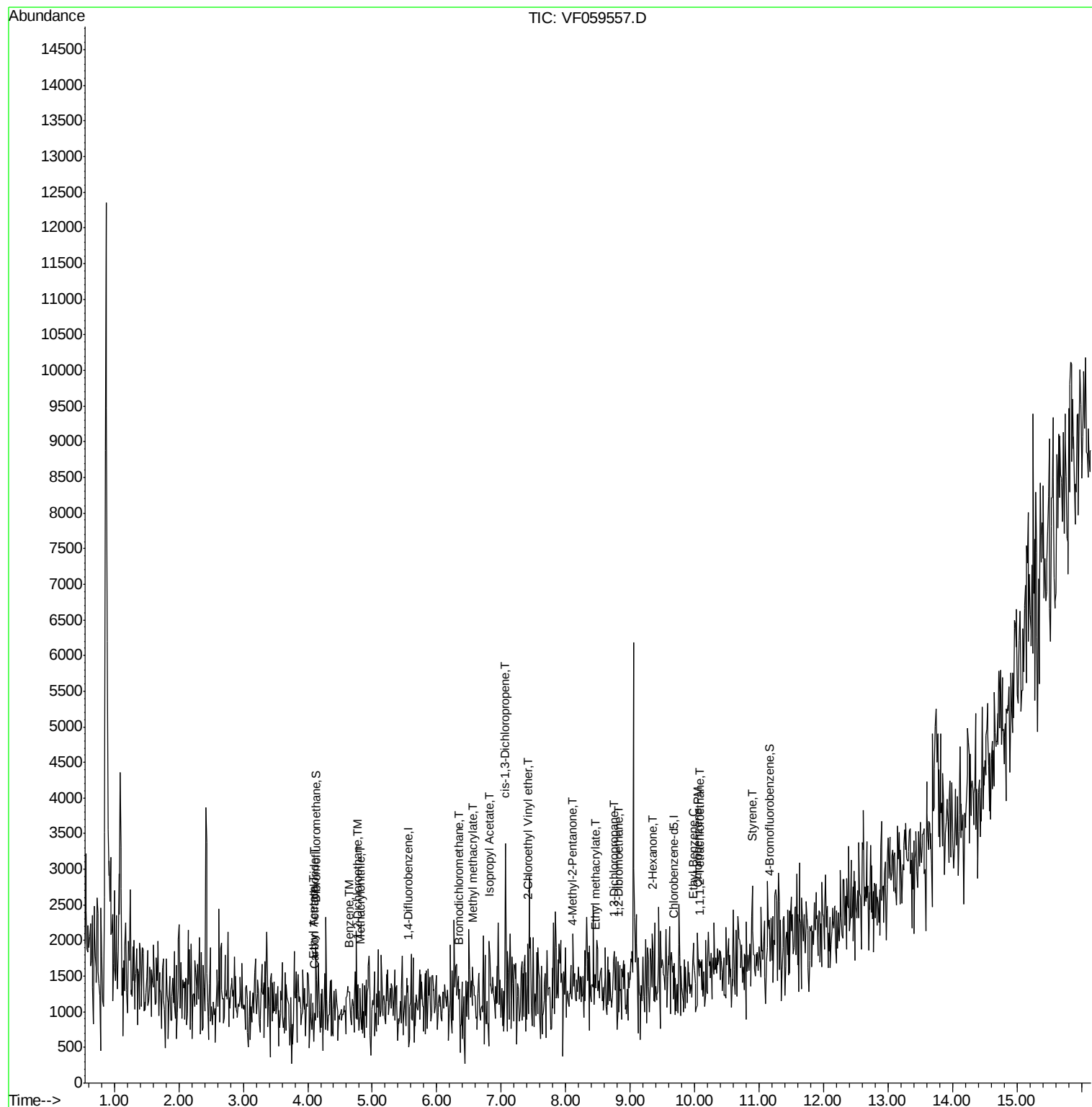
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	4.08	43	150	517.35	ug/l #	41
38) Carbon Tetrachloride	4.10	117	62	90.09	ug/l #	12
40) Benzene	4.65	78	60	51.50	ug/l #	51
41) Methacrylonitrile	4.82	41	70	406.45	ug/l #	27
42) 1,2-Dichloroethane	4.77	62	78	101.92	ug/l	85
43) Isopropyl Acetate	6.82	43	79	183.06	ug/l #	51
47) Bromodichloromethane	6.35	83	73	96.30	ug/l #	25
48) Methyl methacrylate	6.55	41	206	668.39	ug/l #	13
49) 1,4-Dioxane	7.02	88	67	Below Cal	#	15
51) 4-Methyl-2-Pentanone	8.10	43	61	199.41	ug/l #	40
54) cis-1,3-Dichloropropene	7.07	75	62	89.30	ug/l #	31
56) Ethyl methacrylate	8.45	69	85	209.35	ug/l #	26
57) 1,3-Dichloropropane	8.74	76	68	117.46	ug/l #	42
58) 2-Chloroethyl Vinyl ether	7.42	63	79	2203.88	ug/l	100
59) 2-Hexanone	9.36	43	150	648.82	ug/l #	30
61) 1,2-Dibromoethane	8.82	107	73	179.70	ug/l #	2
65) Chlorobenzene	10.05	112	66	36.66	ug/l #	43
66) 1,1,1,2-Tetrachloroethane	10.08	131	68	82.92	ug/l #	8
67) Ethyl Benzene	9.97	91	62	19.35	ug/l #	45
70) Styrene	10.89	104	64	34.57	ug/l #	26

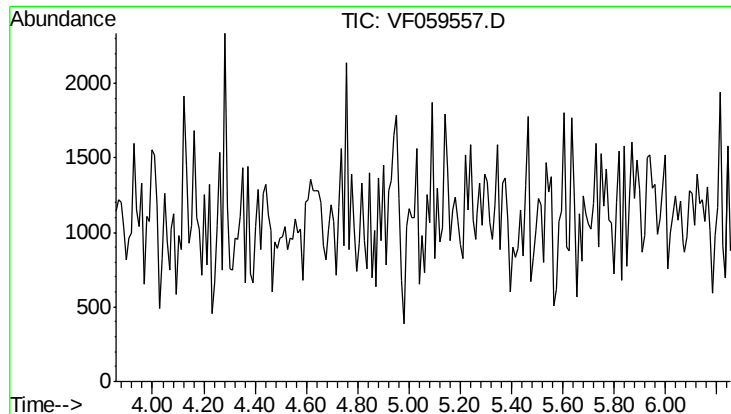
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.05 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Tot Ion: 168

Sig Exp Ratio

168 100

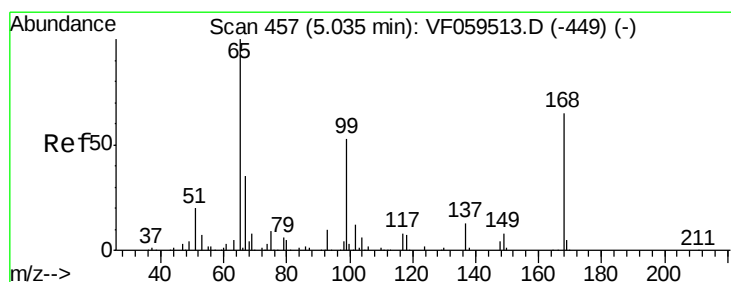
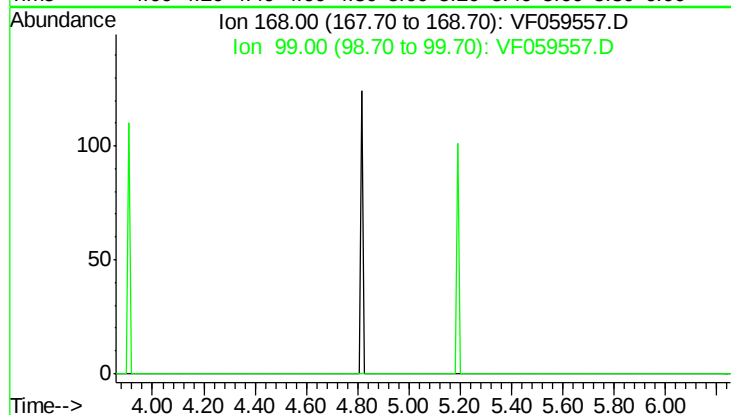
99 72.0

Instrument :

MSVOA_F

ClientSampleId :

SB8-10



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059557.D

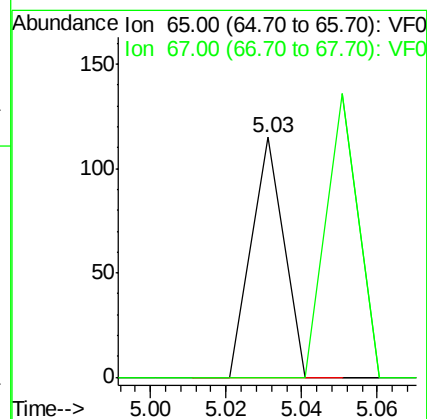
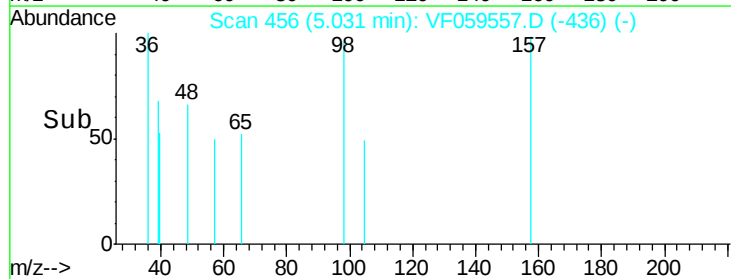
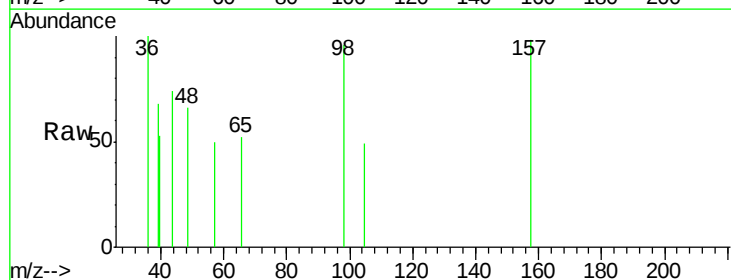
Acq: 19 Jul 2018 13:32

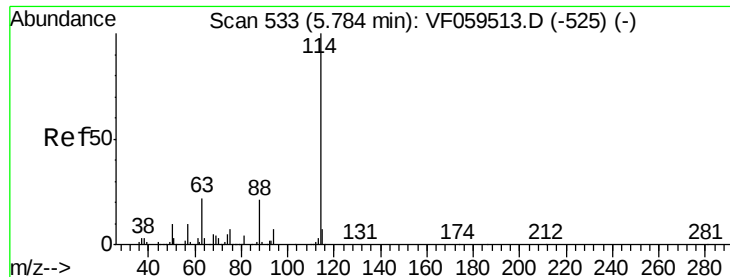
Tgt Ion: 65 Resp: 68

Ion Ratio Lower Upper

65 100

67 0.0 0.0 91.2

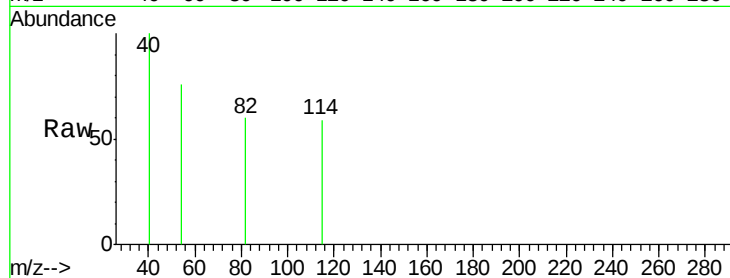




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.56 min Scan# 510
 Delta R.T. -0.22 min
 Lab File: VF059557.D
 Acq: 19 Jul 2018 13:32

Instrument :
 MSVOA_F
 ClientSampleId :
 SB8-10

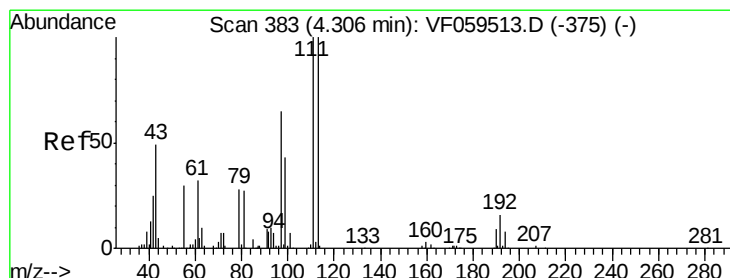
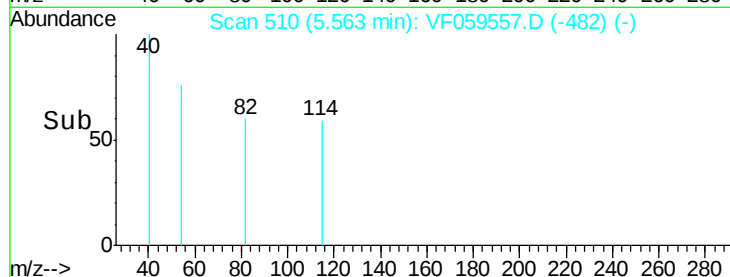
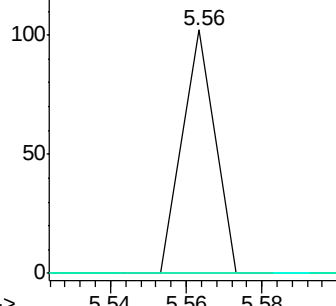
Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	44.8
88	0.0	0.0	42.6



Abundance Ion 114.00 (113.70 to 114.70): V

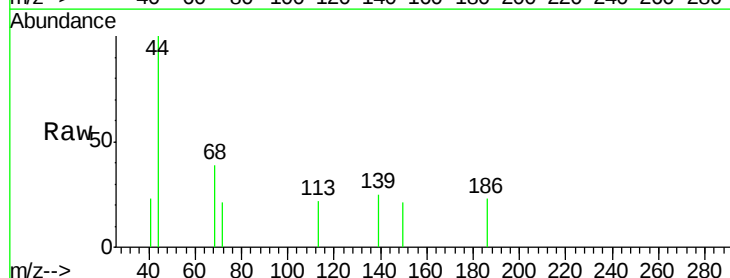
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35
 Dibromofluoromethane
 Concen: 132.78 ug/l
 RT: 4.13 min Scan# 365
 Delta R.T. -0.17 min
 Lab File: VF059557.D
 Acq: 19 Jul 2018 13:32

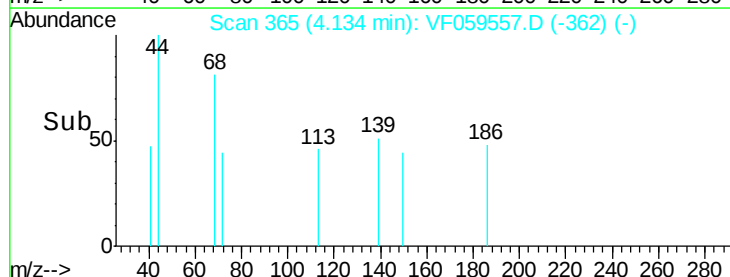
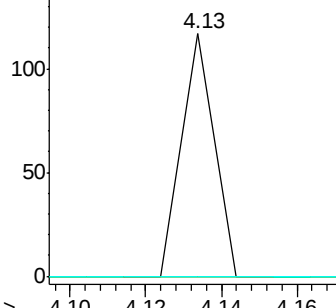
Tgt Ion	Ratio	Lower	Upper
113	100		
111	0.0	80.3	120.5#
192	0.0	13.1	19.7#

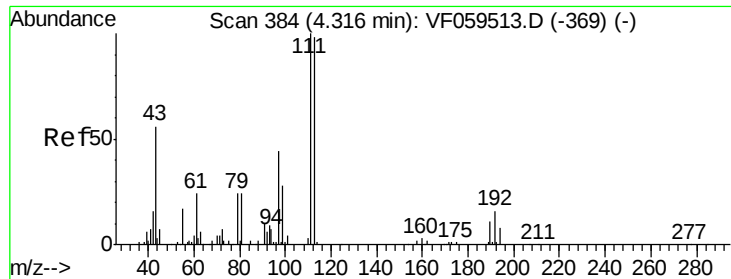


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 517.35 ug/l

RT: 4.08 min Scan# 360

Delta R.T. -0.23 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

SB8-10

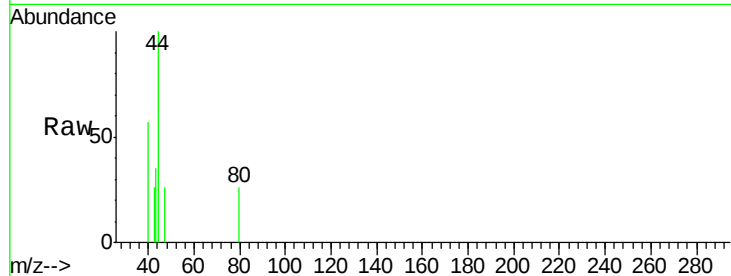
Tot Ion: 43 Resp: 150

Ion Ratio Lower Upper

43 100

61 0.0 33.7 50.5#

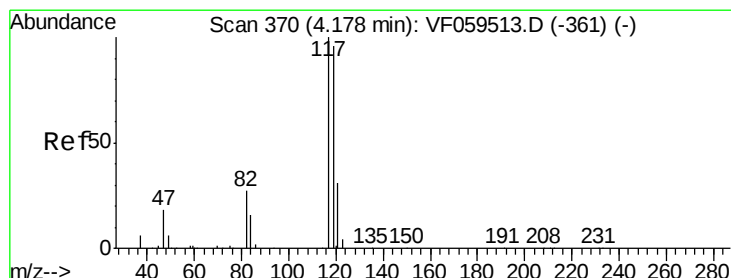
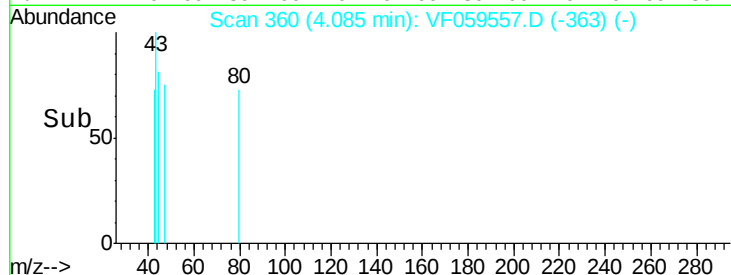
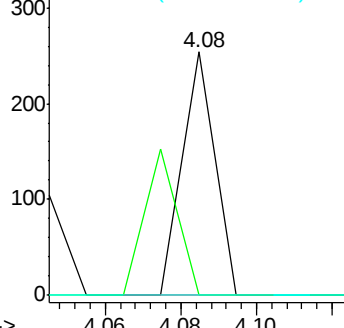
70 0.0 7.4 11.0#



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



#38

Carbon Tetrachloride

Concen: 90.09 ug/l

RT: 4.10 min Scan# 362

Delta R.T. -0.07 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

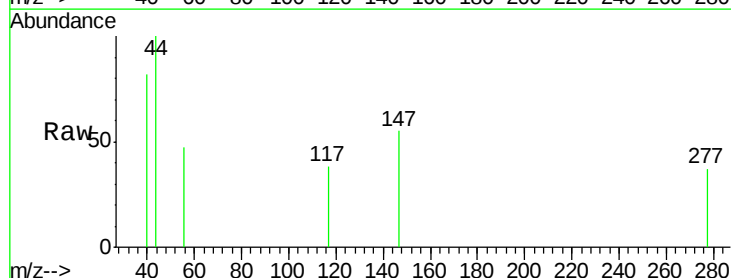
Tgt Ion: 117 Resp: 62

Ion Ratio Lower Upper

117 100

119 0.0 77.6 116.4#

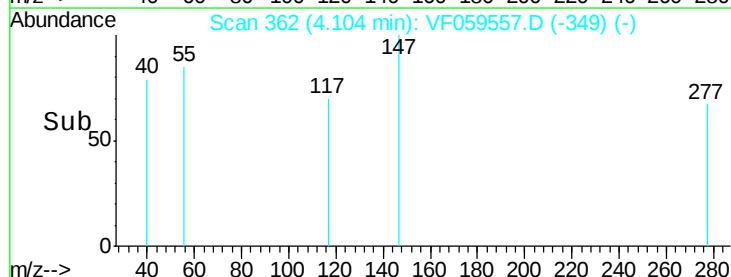
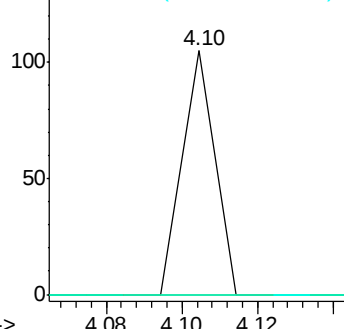
121 0.0 24.9 37.3#

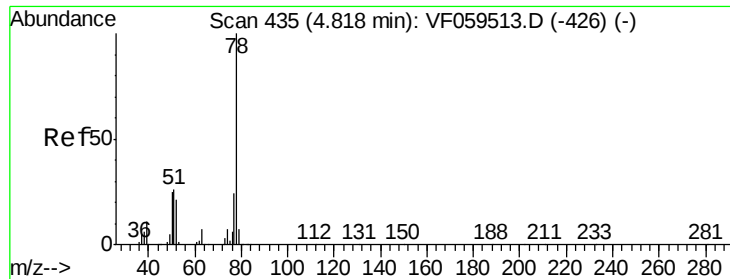


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#40

Benzene

Concen: 51.50 ug/l

RT: 4.65 min Scan# 417

Delta R.T. -0.17 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

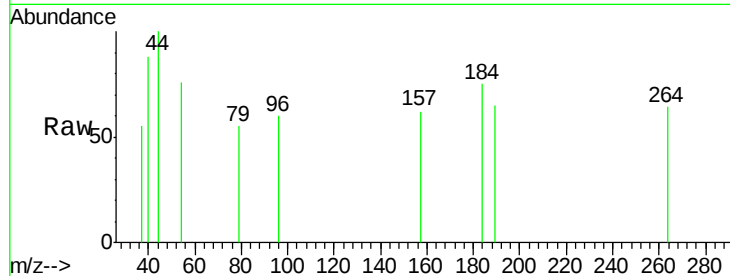
SB8-10

Tot Ion: 78 Resp: 60

Ion Ratio Lower Upper

78 100

77 0.0 19.4 29.0#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.65

100

80

60

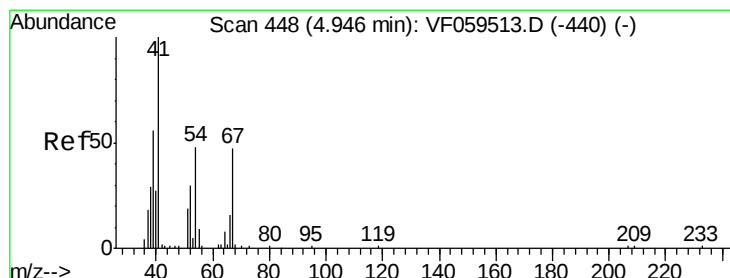
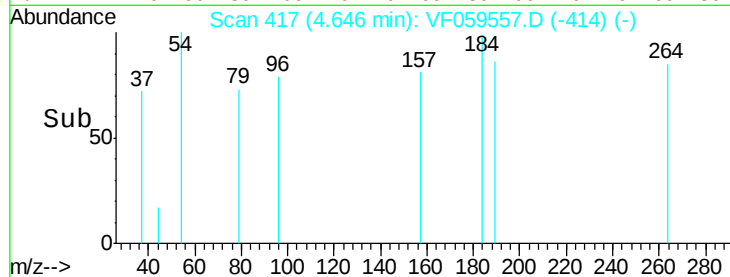
40

20

0

4.62 4.64 4.66 4.68

Time-->



#41

Methacrylonitrile

Concen: 406.45 ug/l

RT: 4.82 min Scan# 435

Delta R.T. -0.12 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Tgt Ion: 41 Resp: 70

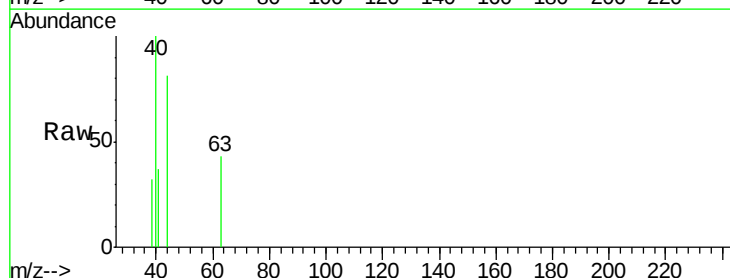
Ion Ratio Lower Upper

41 100

39 0.0 49.4 74.0#

67 0.0 37.4 56.2#

52 0.0 32.1 48.1#



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

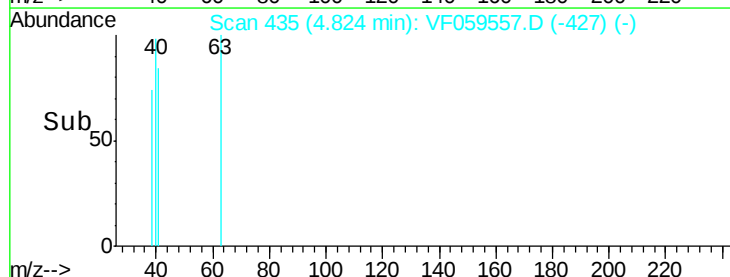
100

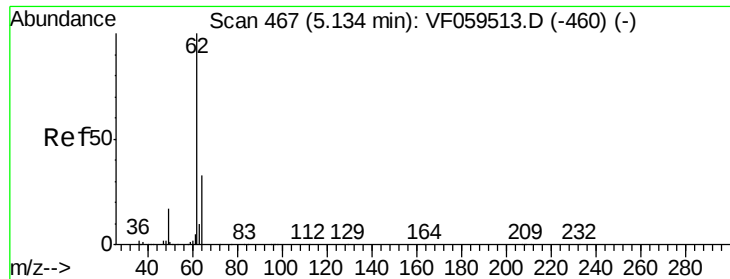
50

0

4.80 4.82 4.84

Time-->





#42

1,2-Dichloroethane

Concen: 101.92 ug/l

RT: 4.77 min Scan# 430

Delta R.T. -0.36 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

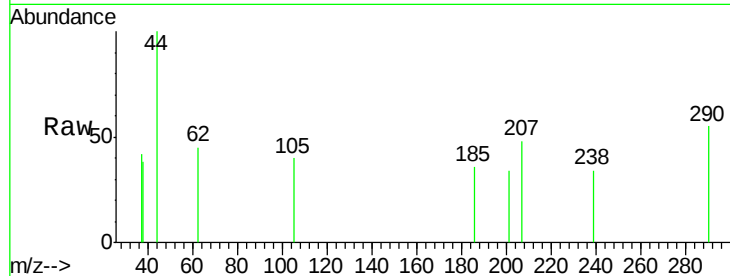
SB8-10

Tot Ion: 62 Resp: 78

Ion Ratio Lower Upper

62 100

98 0.0 0.0 9.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

4.77

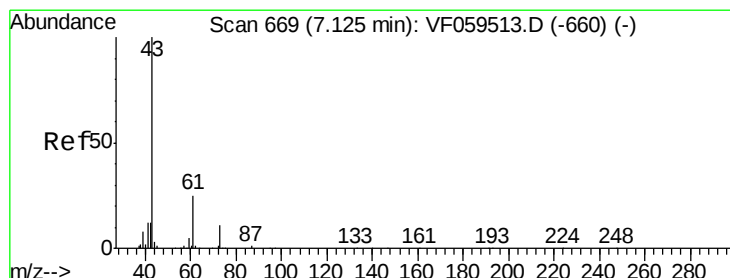
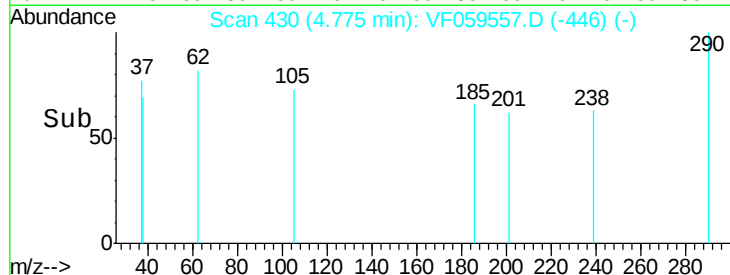
150

100

50

0

Time-->



#43

Isopropyl Acetate

Concen: 183.06 ug/l

RT: 6.82 min Scan# 638

Delta R.T. -0.30 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

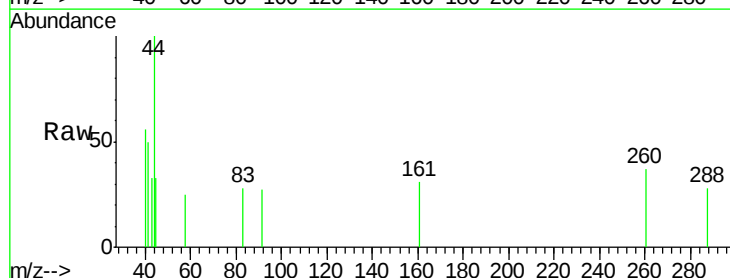
Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

87 0.0 0.4 0.6#



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

6.82

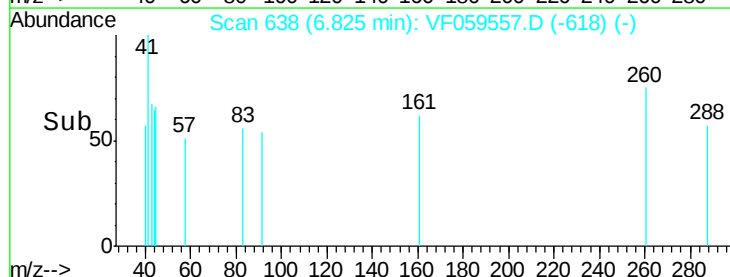
150

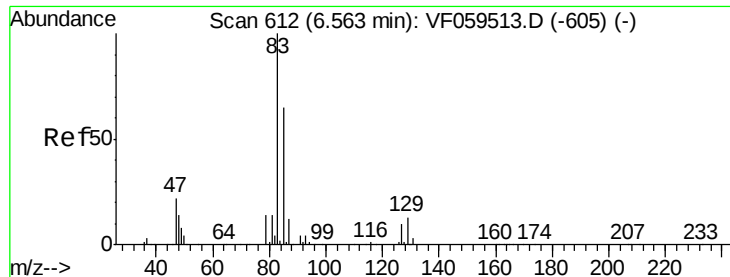
100

50

0

Time-->





#47

Bromodichloromethane

Concen: 96.30 ug/l

RT: 6.35 min Scan# 590

Delta R.T. -0.21 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

SB8-10

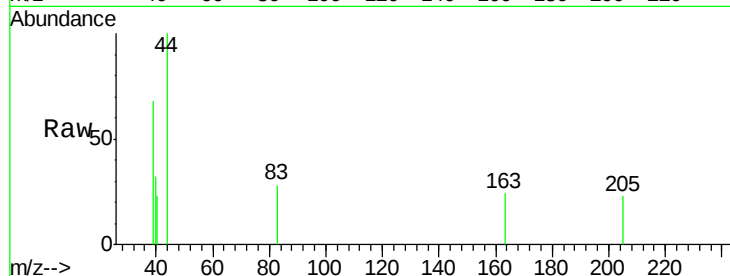
Tot Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

85 0.0 52.4 78.6#

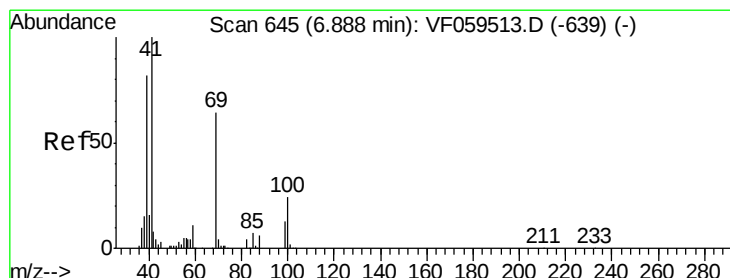
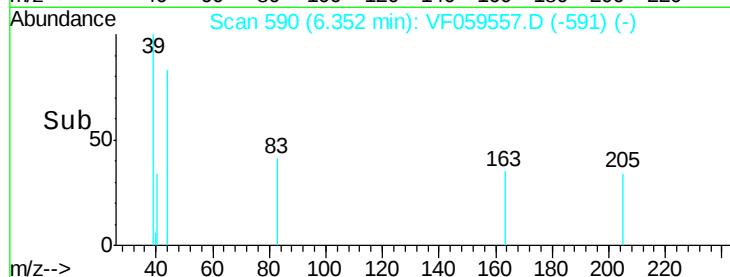
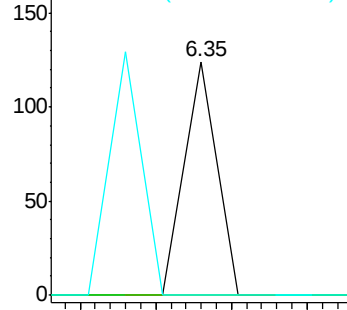
127 0.0 8.2 12.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 668.39 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.34 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

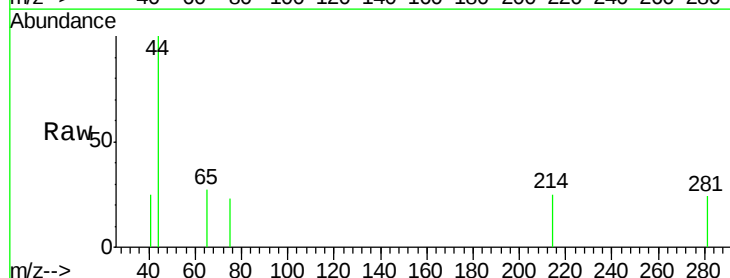
Tgt Ion: 41 Resp: 206

Ion Ratio Lower Upper

41 100

69 0.0 51.3 76.9#

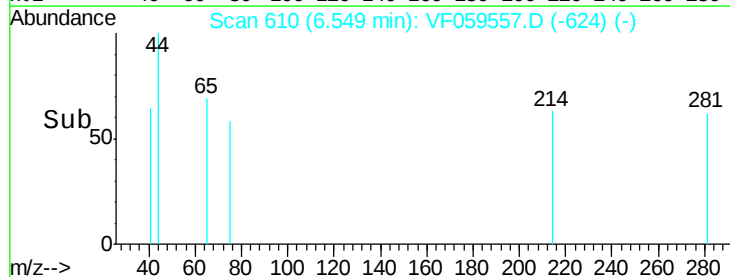
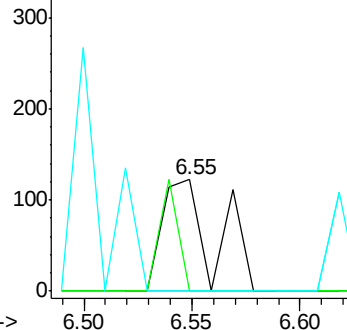
39 0.0 65.3 97.9#

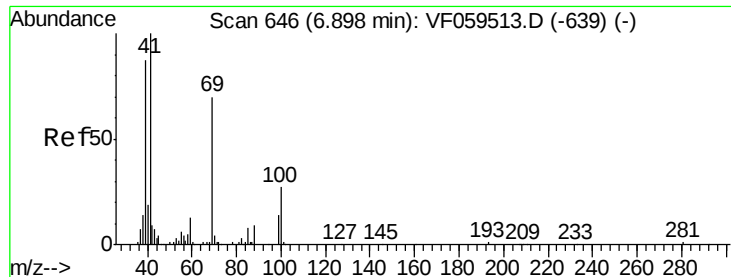


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.02 min Scan# 658

Delta R.T. 0.12 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

SB8-10

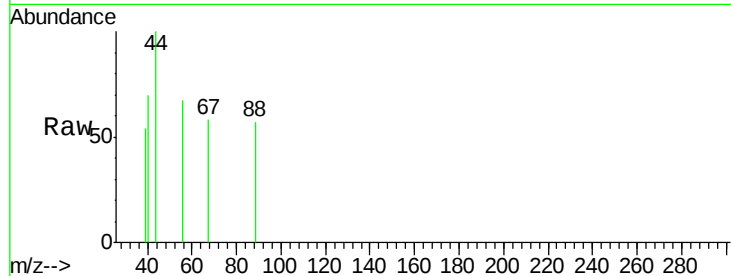
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 64.8 97.2#

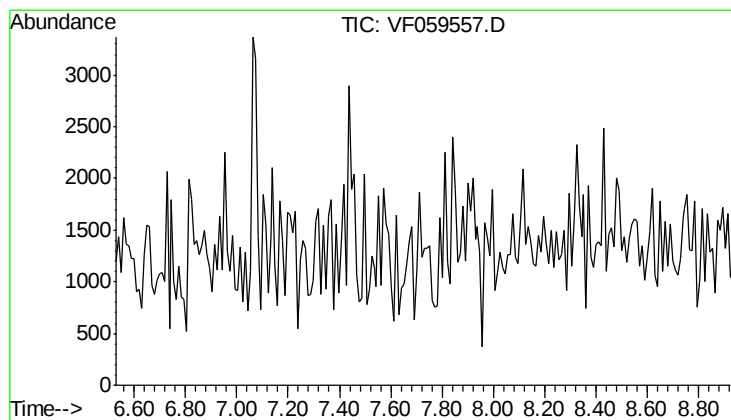
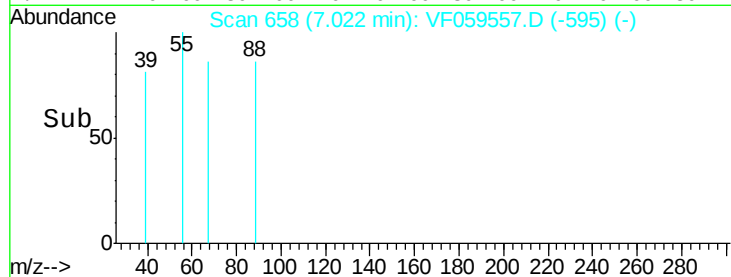
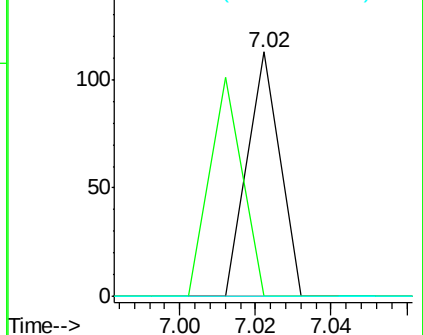
58 0.0 44.1 66.1#



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: 7.73 min

Lab File: VF059557.D

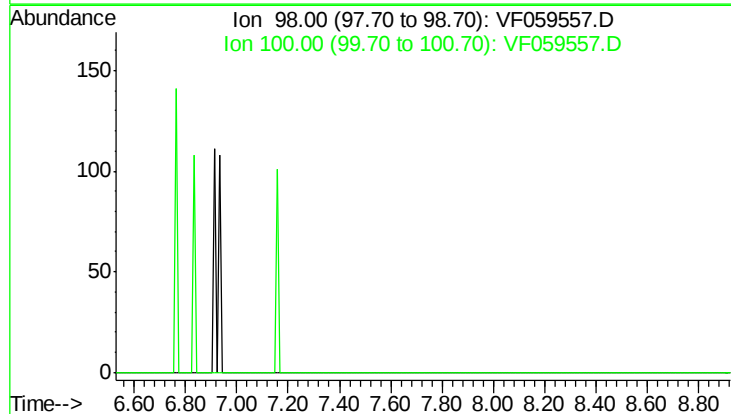
Acq: 19 Jul 2018 13:32

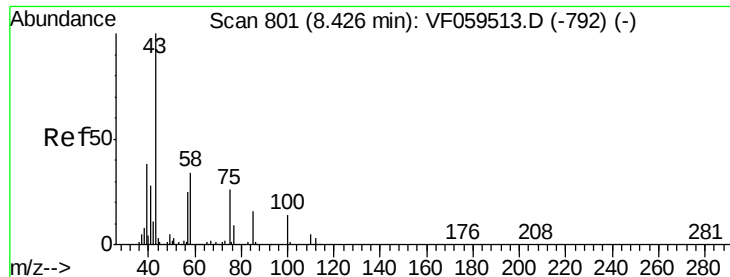
Tgt Ion: 98

Sig Exp Ratio

98 100

100 63.6





#51

4-Methyl-2-Pentanone

Concen: 199.41 ug/l

RT: 8.10 min Scan# 767

Delta R.T. -0.33 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleID :

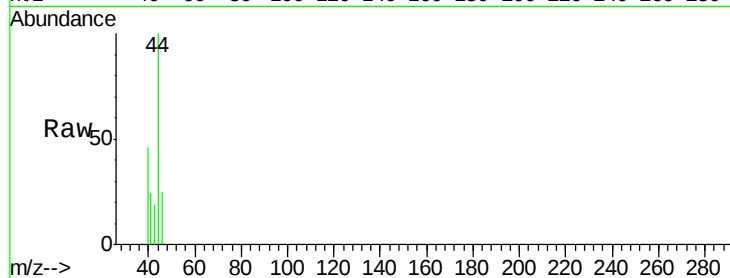
SB8-10

Tot Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.10

100

80

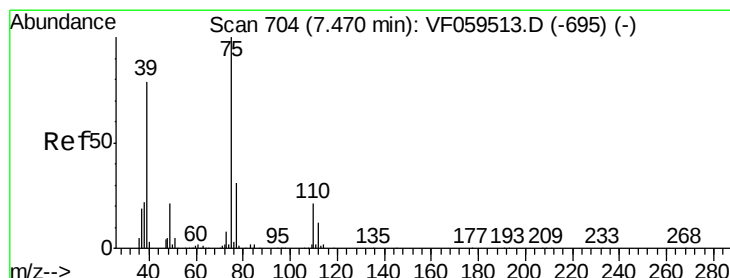
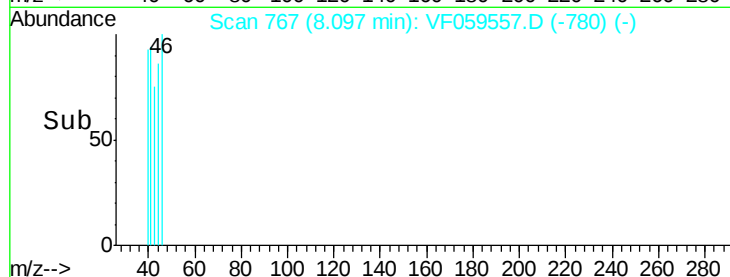
60

40

20

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 89.30 ug/l

RT: 7.07 min Scan# 663

Delta R.T. -0.40 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

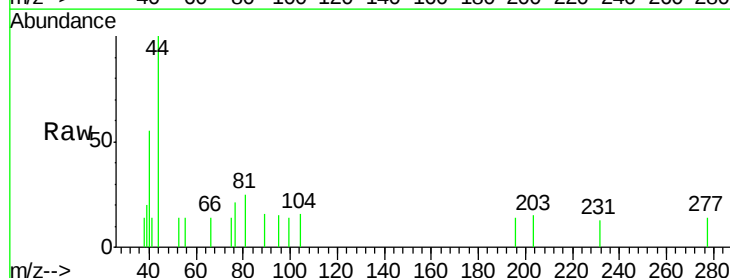
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 145.2 63.8 95.6#



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

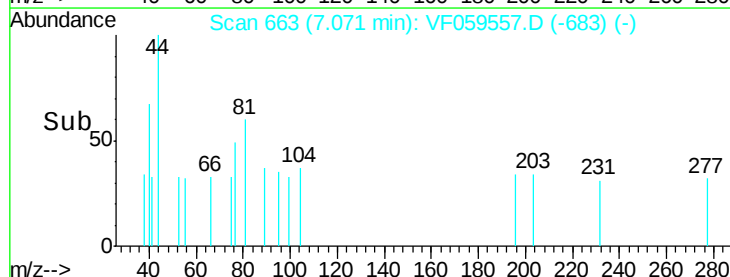
150

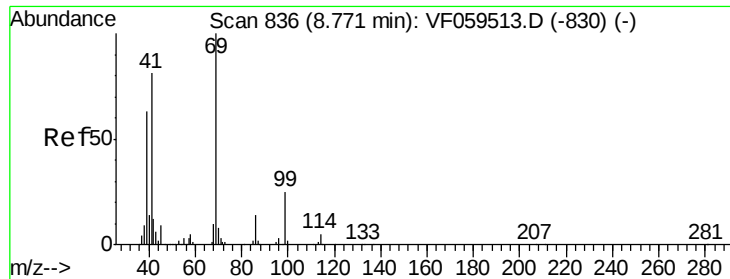
100

50

0

Time-->





#56

Ethyl methacrylate

Concen: 209.35 ug/l

RT: 8.45 min Scan# 803

Delta R.T. -0.32 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampled :

SB8-10

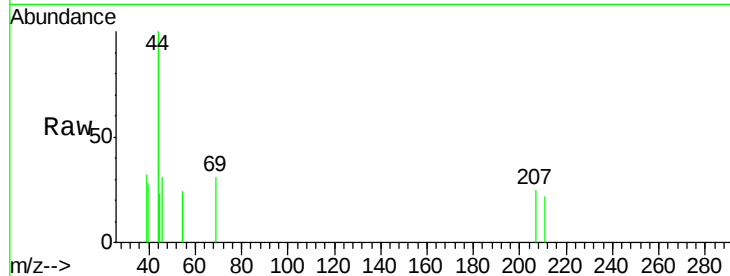
Tot Ion: 69 Resp: 85

Ion Ratio Lower Upper

69 100

41 0.0 65.4 98.2#

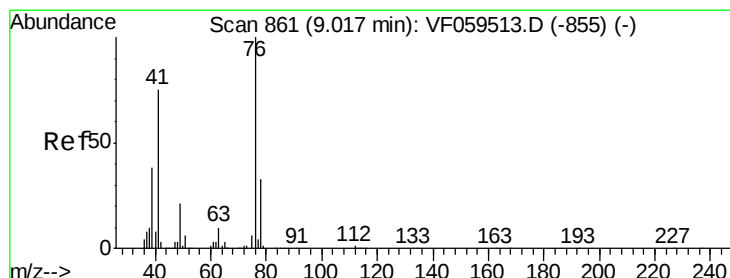
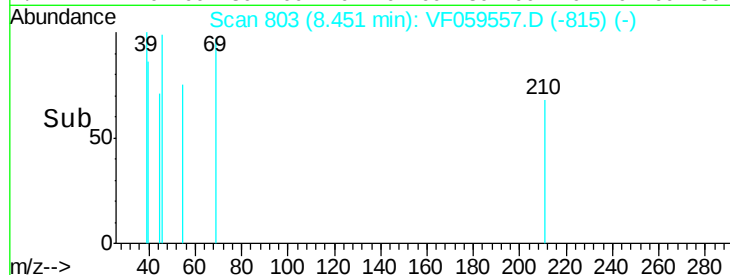
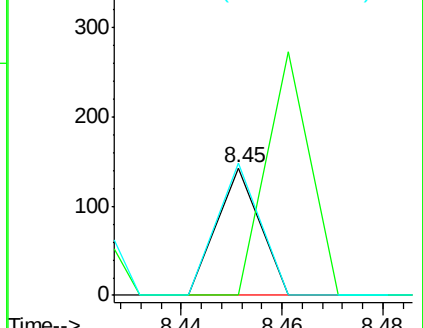
39 103.5 51.0 76.4#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 117.46 ug/l

RT: 8.74 min Scan# 832

Delta R.T. -0.28 min

Lab File: VF059557.D

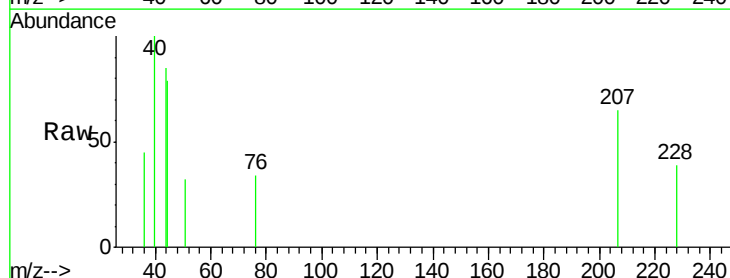
Acq: 19 Jul 2018 13:32

Tgt Ion: 76 Resp: 68

Ion Ratio Lower Upper

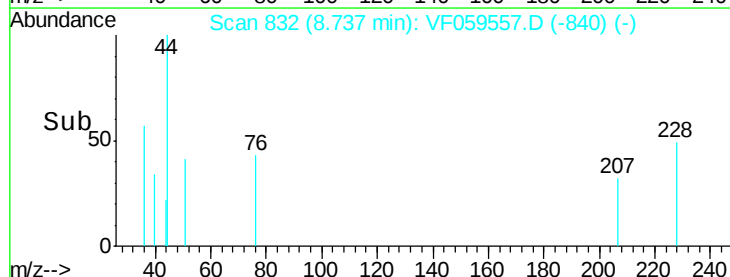
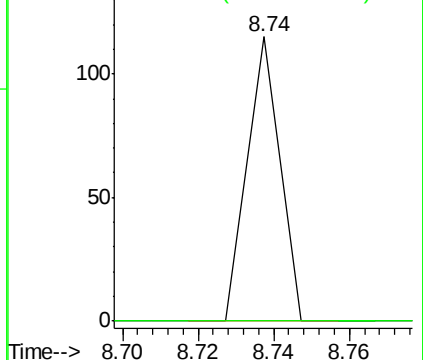
76 100

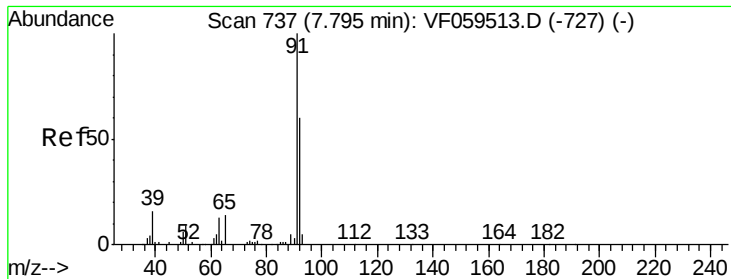
78 0.0 26.4 39.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2203.88 ug/l

RT: 7.42 min Scan# 698

Delta R.T. -0.38 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

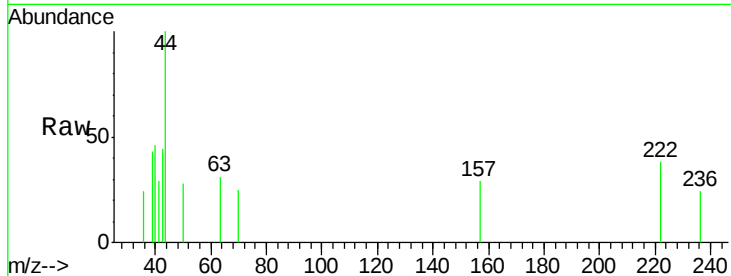
SB8-10

Tot Ion: 63 Resp: 79

Ion Ratio Lower Upper

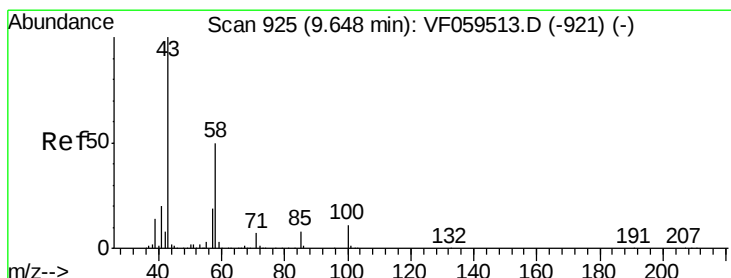
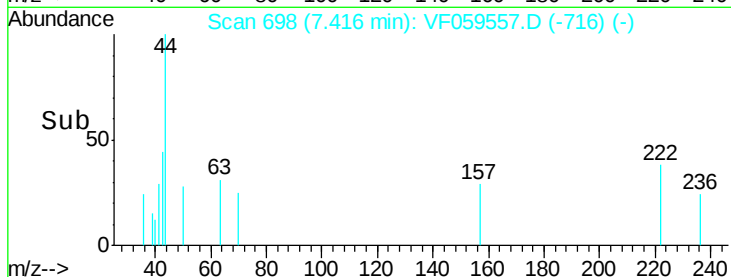
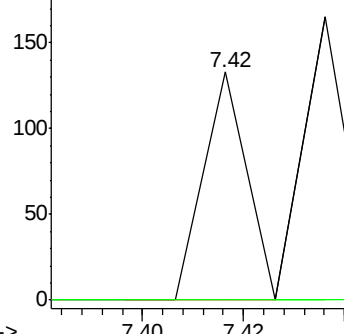
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 648.82 ug/l

RT: 9.36 min Scan# 895

Delta R.T. -0.29 min

Lab File: VF059557.D

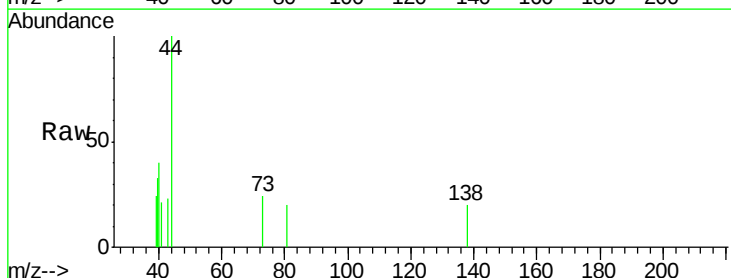
Acq: 19 Jul 2018 13:32

Tgt Ion: 43 Resp: 150

Ion Ratio Lower Upper

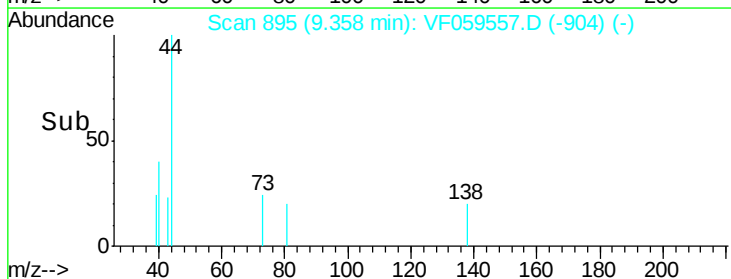
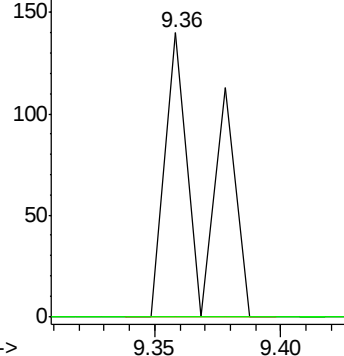
43 100

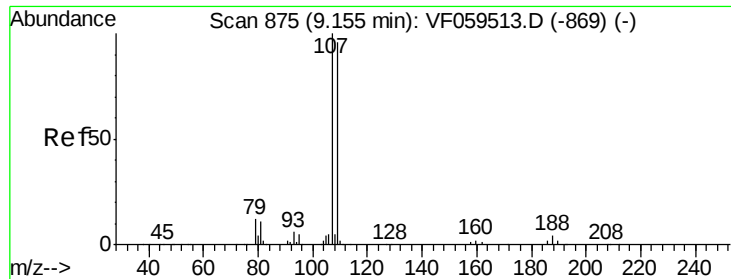
58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#61

1,2-Dibromoethane

Concen: 179.70 ug/l

RT: 8.82 min Scan# 840

Delta R.T. -0.34 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

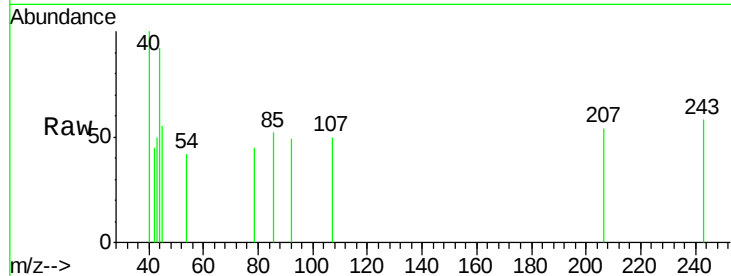
SB8-10

Tot Ion:107 Resp: 73

Ion Ratio Lower Upper

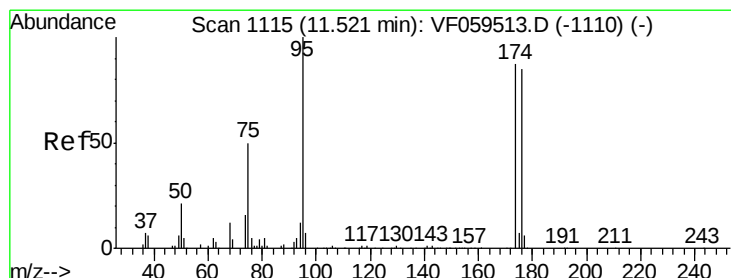
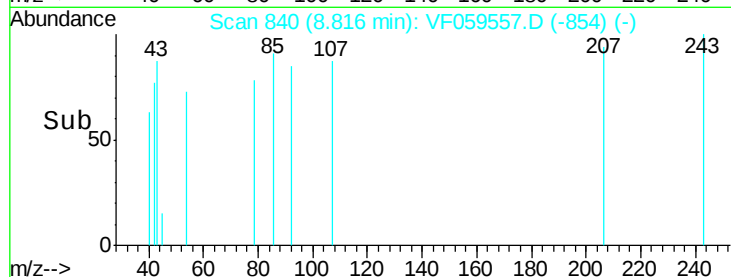
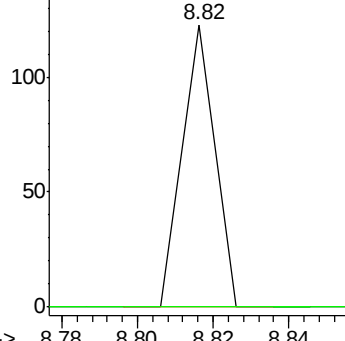
107 100

109 0.0 76.5 114.7#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 208.25 ug/l

RT: 11.16 min Scan# 1078

Delta R.T. -0.36 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

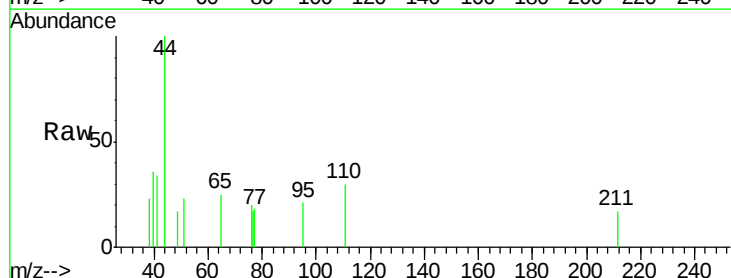
Tgt Ion: 95 Resp: 143

Ion Ratio Lower Upper

95 100

174 0.0 0.0 174.4

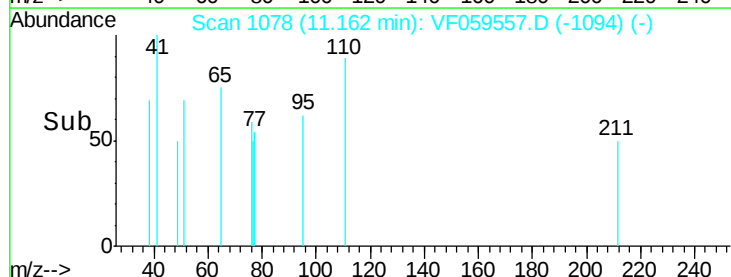
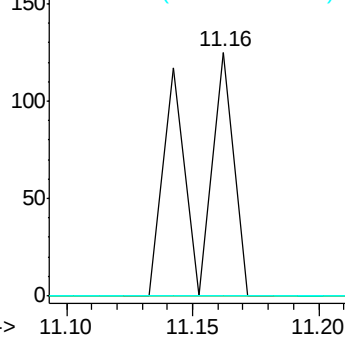
176 0.0 0.0 169.4

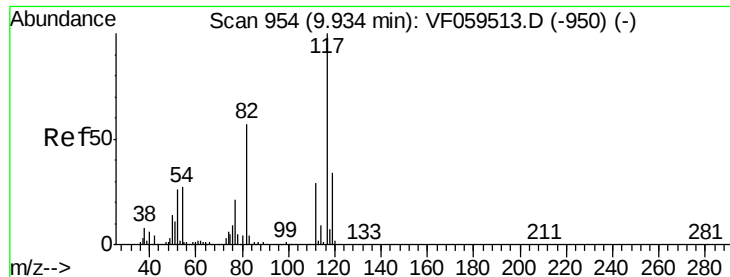


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

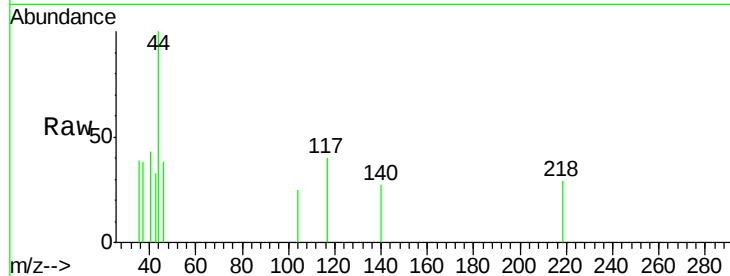




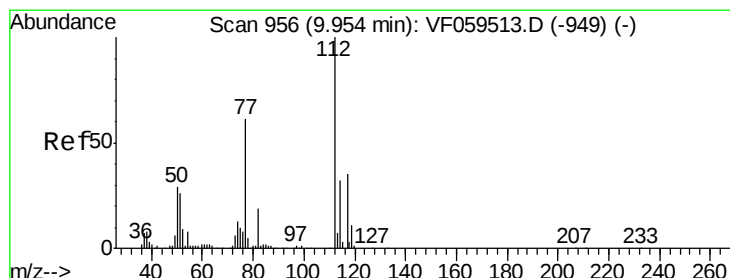
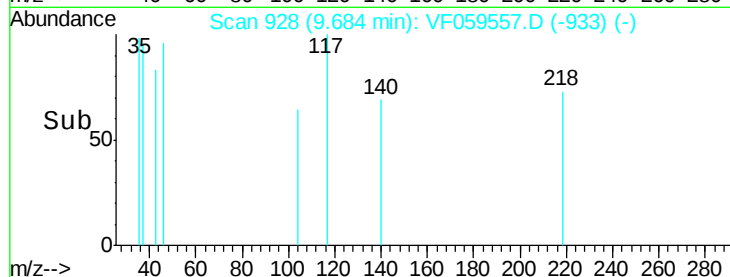
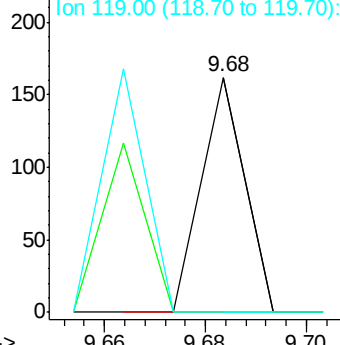
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.68 min Scan# 928
Delta R.T. -0.25 min
Lab File: VF059557.D
Acq: 19 Jul 2018 13:32

Instrument :
MSVOA_F
ClientSampleId :
SB8-10

Tot Ion:117 Resp: 96
Ion Ratio Lower Upper
117 100
82 0.0 46.1 69.1#
119 0.0 27.2 40.8#

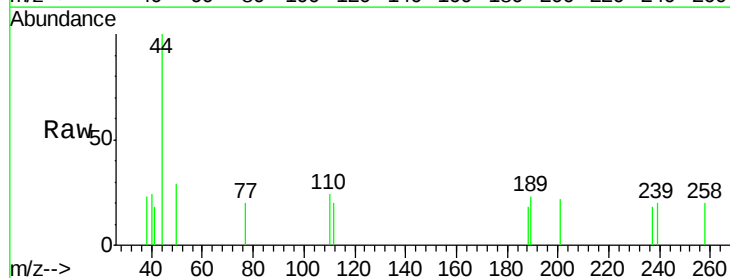


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

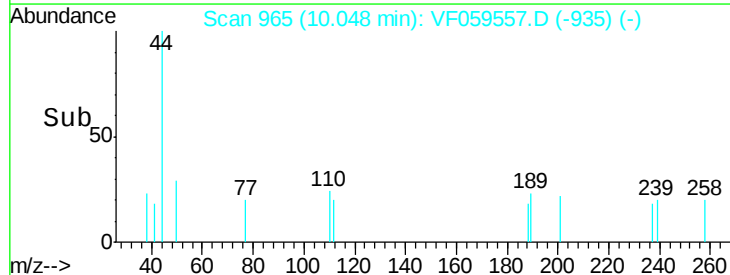
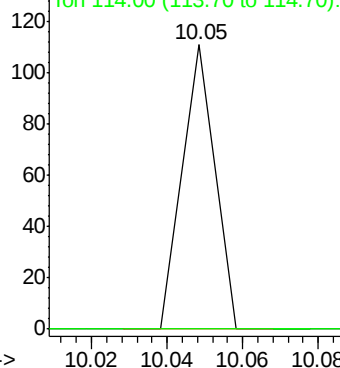


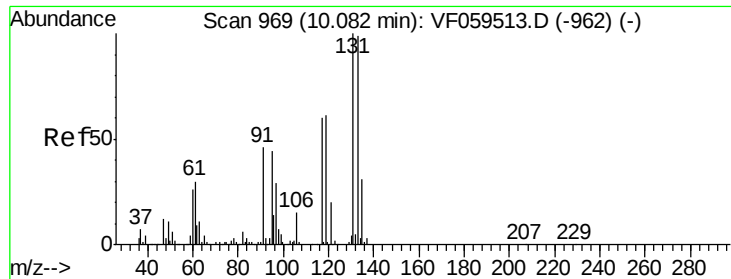
#65
Chlorobenzene
Concen: 36.66 ug/l
RT: 10.05 min Scan# 965
Delta R.T. 0.09 min
Lab File: VF059557.D
Acq: 19 Jul 2018 13:32

Tgt Ion:112 Resp: 66
Ion Ratio Lower Upper
112 100
114 0.0 25.4 38.2#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 82.92 ug/l

RT: 10.08 min Scan# 968

Delta R.T. -0.00 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

SB8-10

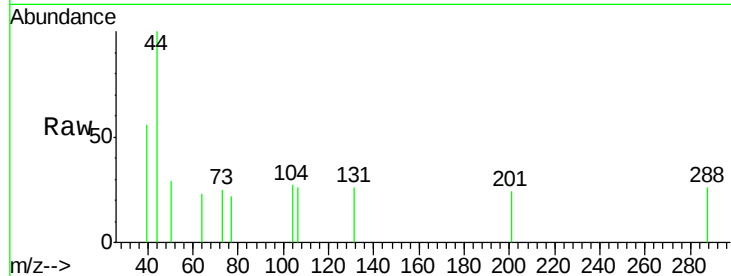
Tot Ion:131 Resp: 68

Ion Ratio Lower Upper

131 100

133 0.0 49.6 148.8#

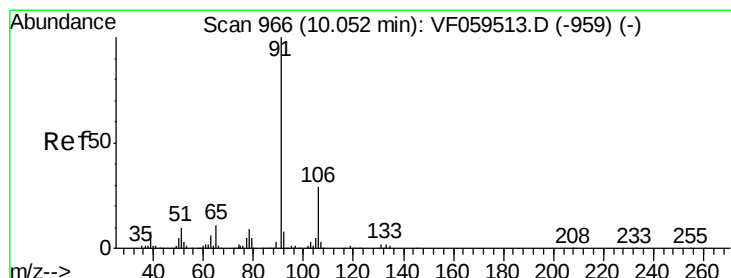
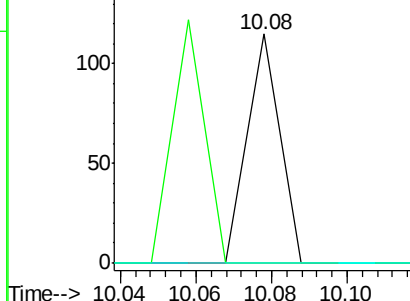
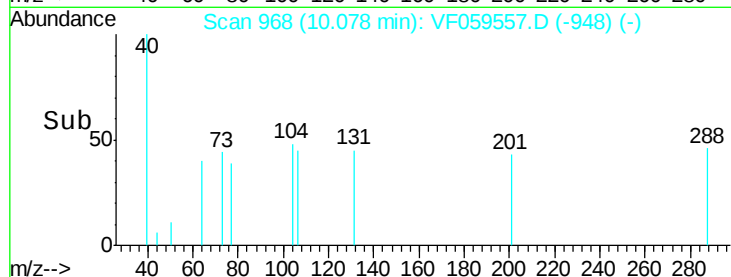
119 0.0 31.4 94.3#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 19.35 ug/l

RT: 9.97 min Scan# 957

Delta R.T. -0.08 min

Lab File: VF059557.D

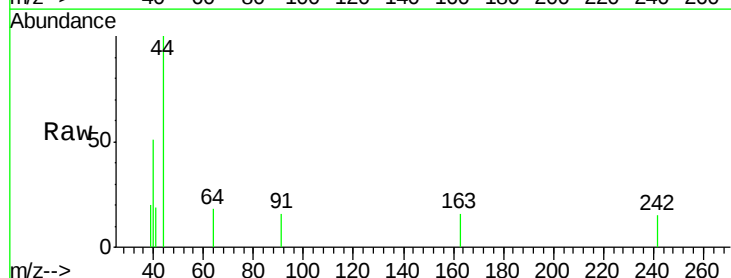
Acq: 19 Jul 2018 13:32

Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

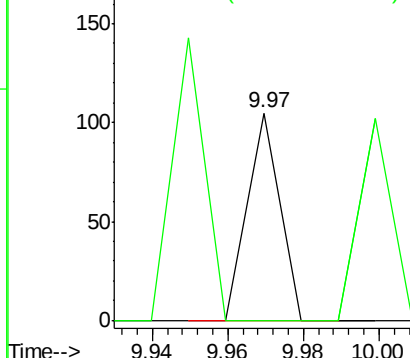
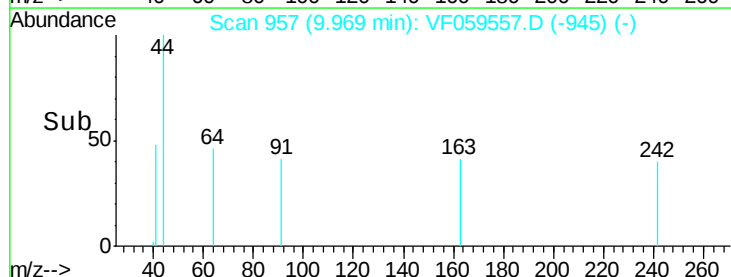
91 100

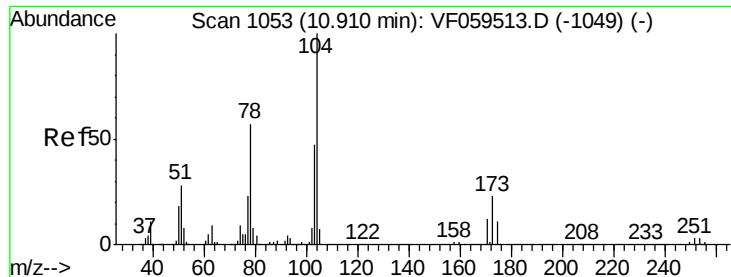
106 0.0 23.4 35.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#70

Stvrene

Concen: 34.57 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.02 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Instrument :

MSVOA_F

ClientSampleId :

SB8-10

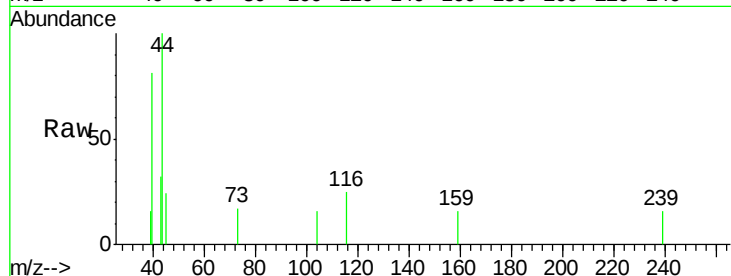
Tot Ion:104 Resp: 64

Ion Ratio Lower Upper

104 100

78 0.0 45.7 68.5#

103 0.0 38.1 57.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V

200

150

100

50

0

10.86

10.88

10.90

10.92

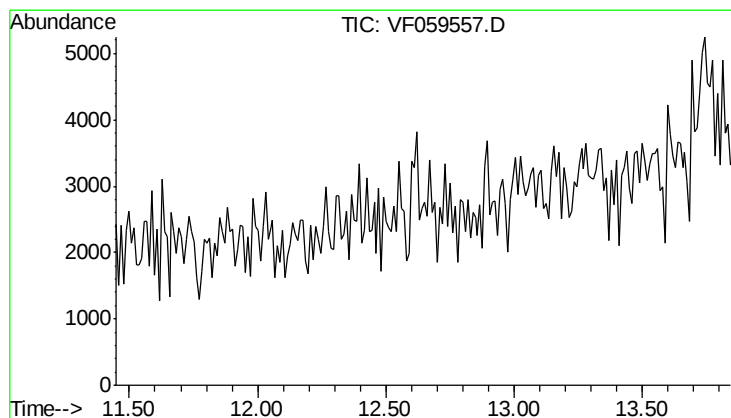
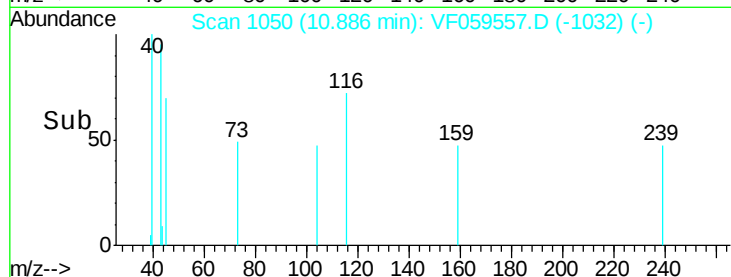
10.94

10.96

10.98

11.00

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 0.00 ug/l

Expected RT: 12.64 min

Lab File: VF059557.D

Acq: 19 Jul 2018 13:32

Tgt Ion: 152

Sig Exp Ratio

152 100

115 55.5

150 159.2

