

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080818\
 Data File : VF059930.D
 Acq On : 8 Aug 2018 14:42
 Operator : VA/AP
 Sample : J4360-01RE
 Misc : 6.13g/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 155-SOILRE

Quant Time: Aug 09 05:21:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	2854	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.79	114	2470	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.94	117	2010	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.65	152	729	50.00	ug/l	0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	646	12.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	25.12%	
35) Dibromofluoromethane	4.29	113	874	35.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.12%	
50) Toluene-d8	7.73	98	2102	40.20	ug/l	0.02
Spiked Amount	50.000		Recovery	=	80.40%	
62) 4-Bromofluorobenzene	11.52	95	694	23.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.24%	

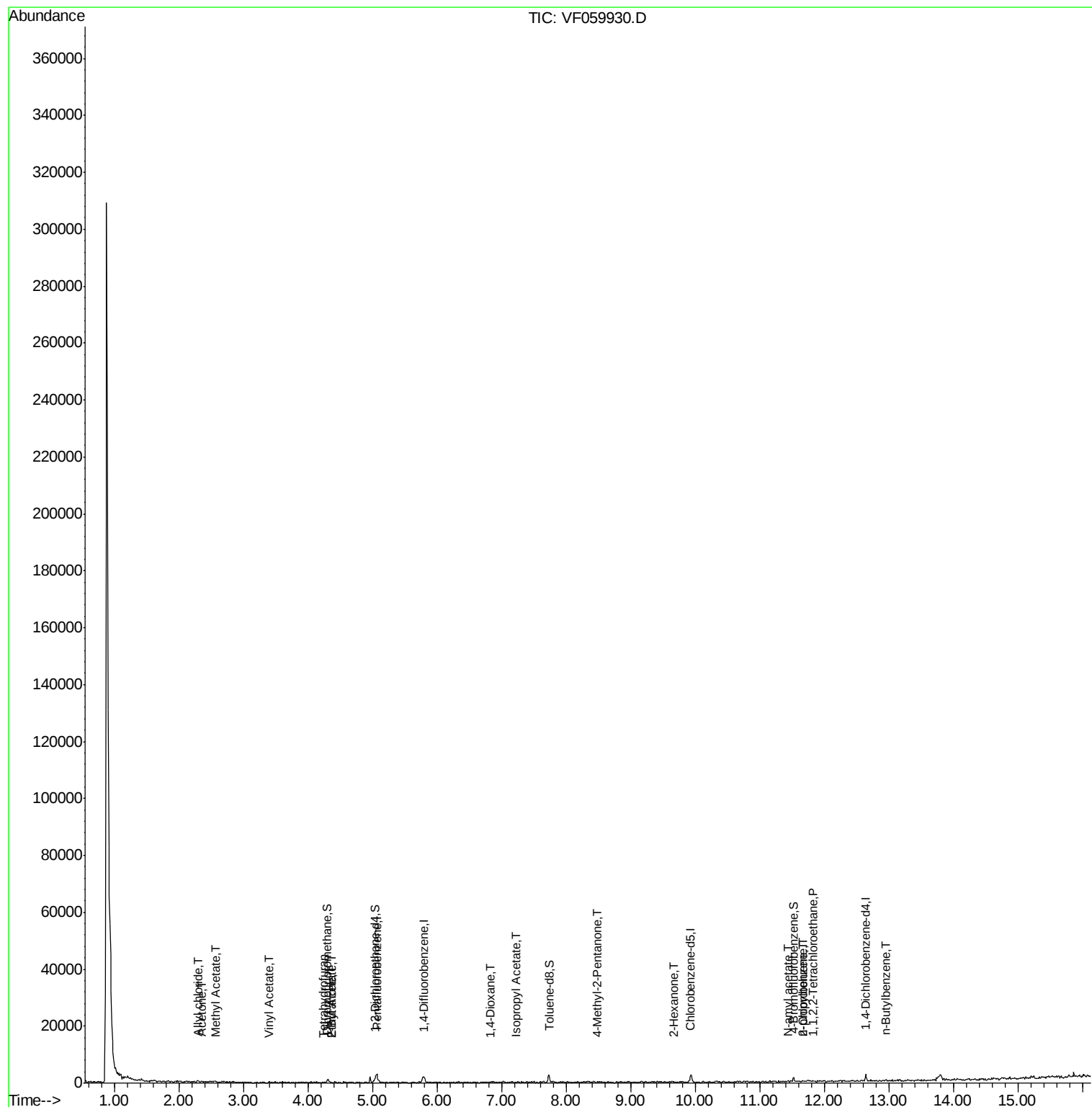
Target Compounds						Qvalue
14) Allyl chloride	2.30	41	66	1.55	ug/l #	1
16) Acetone	2.34	43	84	8.84	ug/l #	70
18) Methyl Acetate	2.58	43	68	4.24	ug/l #	56
23) Vinyl Acetate	3.38	43	63	1.59	ug/l #	80
25) 2-Butanone	4.37	43	60	5.81	ug/l #	60
29) Tetrahydrofuran	4.22	42	60	15.78	ug/l #	38
37) Ethyl Acetate	4.37	43	60	4.89	ug/l #	1
43) Isopropyl Acetate	7.22	43	87	6.89	ug/l #	51
49) 1,4-Dioxane	6.81	88	59	848.93	ug/l #	16
51) 4-Methyl-2-Pentanone	8.47	43	59	4.57	ug/l #	43
59) 2-Hexanone	9.67	43	72	7.89	ug/l #	34
74) N-amyl acetate	11.44	43	94	10.83	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.83	83	71	8.33	ug/l #	23
78) n-propylbenzene	11.67	91	64	1.19	ug/l #	55
79) 2-Chlorotoluene	11.67	91	64	1.89	ug/l #	44
89) n-Butylbenzene	12.95	91	69	1.58	ug/l #	31

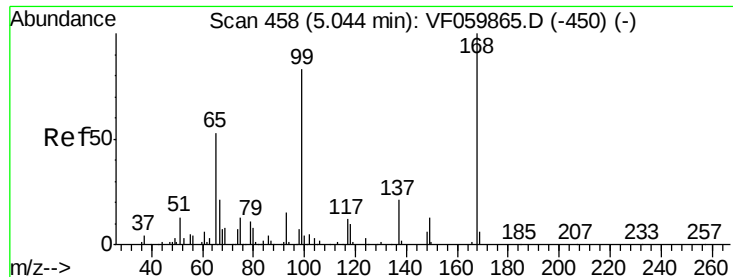
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

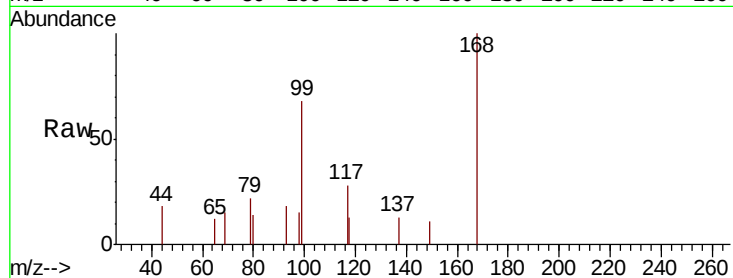
155-SOILRE

Tot Ion:168 Resp: 2854

Ion Ratio Lower Upper

168 100

99 68.0 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

1000

800

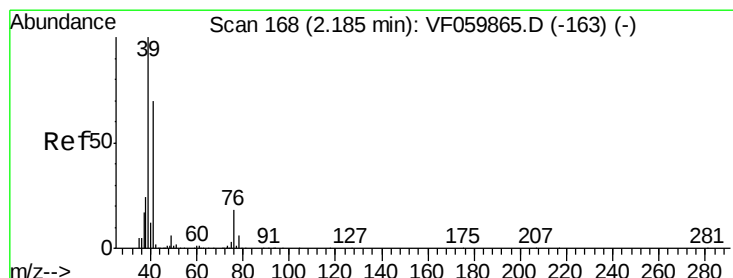
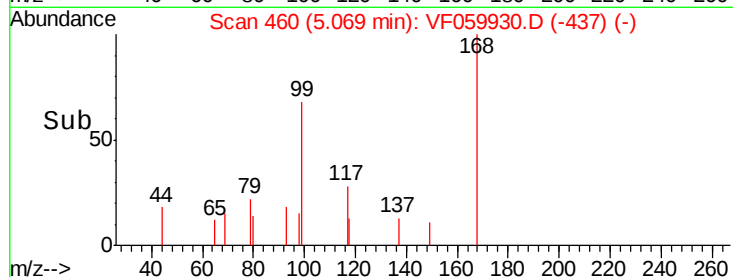
600

400

200

0

Time--> 4.95 5.00 5.05 5.10 5.15



#14

Allyl chloride

Concen: 1.55 ug/l

RT: 2.30 min Scan# 179

Delta R.T. 0.11 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

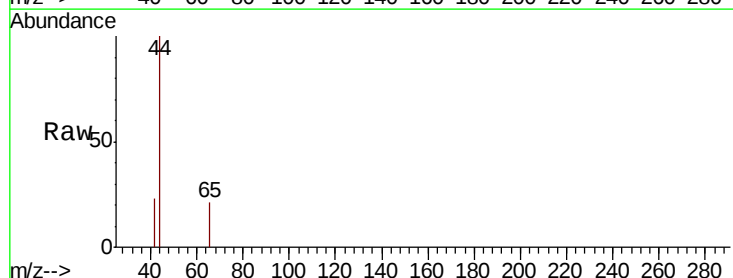
Tgt Ion: 41 Resp: 66

Ion Ratio Lower Upper

41 100

39 0.0 114.6 171.8#

76 0.0 21.0 31.4#



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

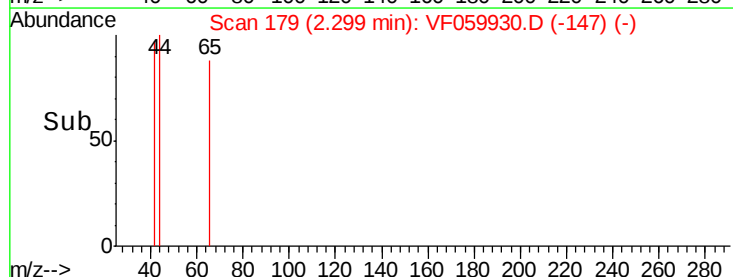
150

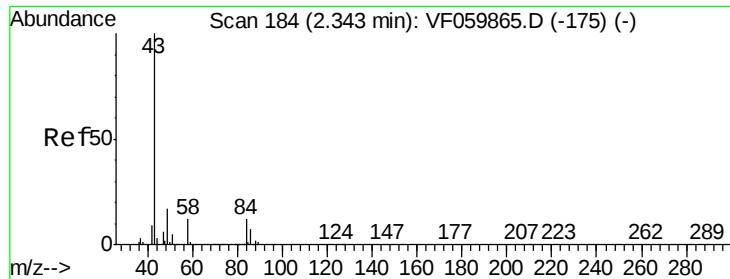
100

50

0

Time--> 2.26 2.28 2.30 2.32





#16

Acetone

Concen: 8.84 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

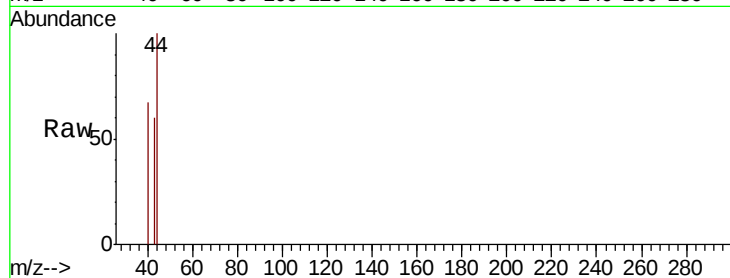
155-SOILRE

Tot Ion: 43 Resp: 84

Ion Ratio Lower Upper

43 100

58 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

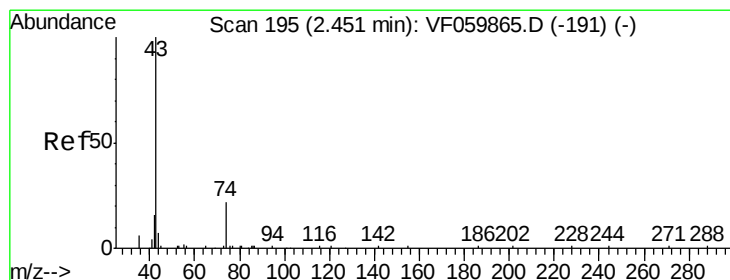
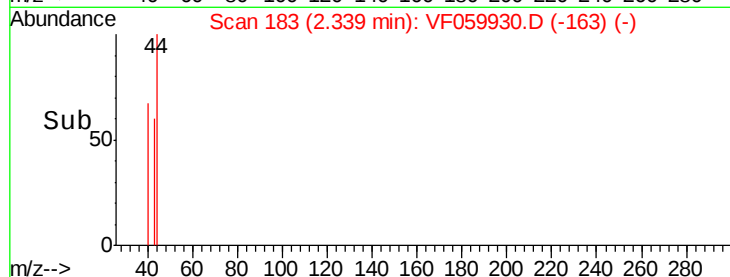
150

100

50

0

Time--> 2.30 2.32 2.34 2.36



#18

Methyl Acetate

Concen: 4.24 ug/l

RT: 2.58 min Scan# 207

Delta R.T. 0.12 min

Lab File: VF059930.D

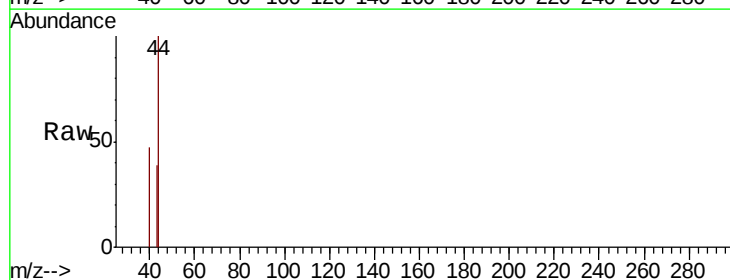
Acq: 8 Aug 2018 14:42

Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

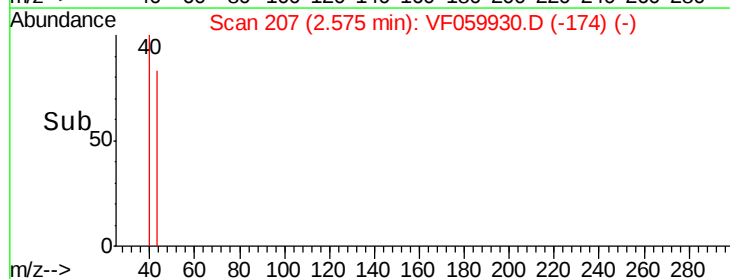
2.58

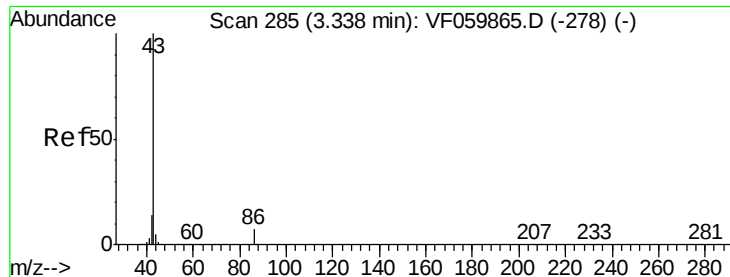
100

50

0

Time--> 2.54 2.56 2.58 2.60





#23

Vinyl Acetate

Concen: 1.59 ug/l

RT: 3.38 min Scan# 289

Delta R.T. 0.05 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

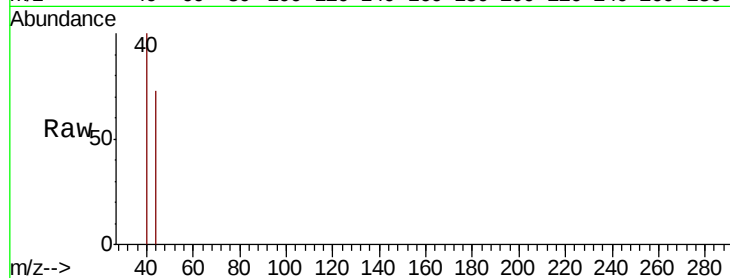
155-SOILRE

Tot Ion: 43 Resp: 63

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

3.38

100

80

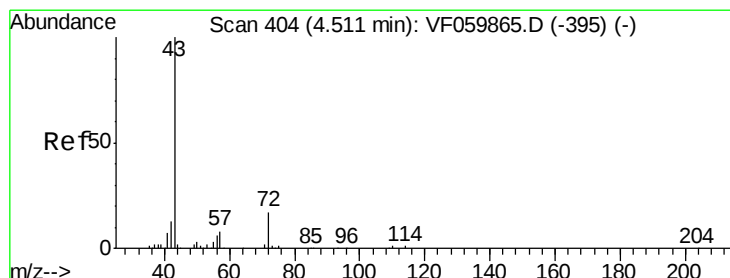
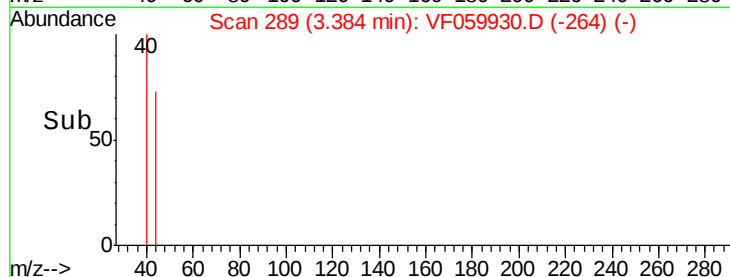
60

40

20

0

Time-->



#25

2-Butanone

Concen: 5.81 ug/l

RT: 4.37 min Scan# 389

Delta R.T. -0.14 min

Lab File: VF059930.D

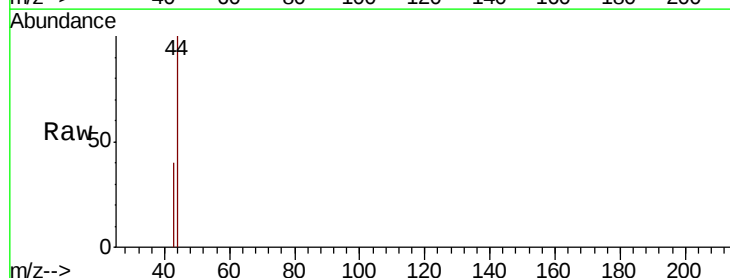
Acq: 8 Aug 2018 14:42

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

72 0.0 13.9 20.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.37

100

80

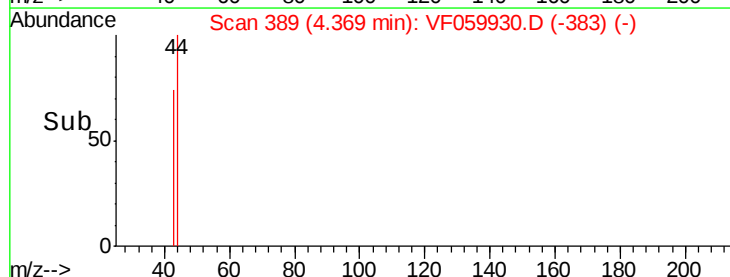
60

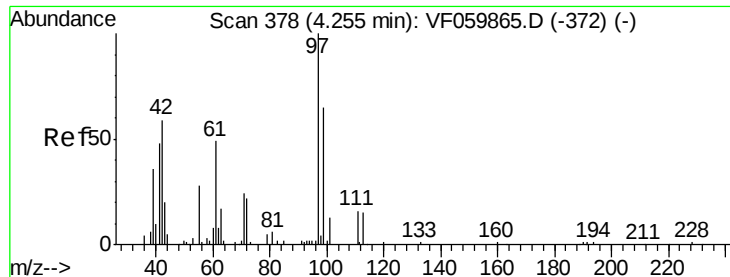
40

20

0

Time-->





#29

Tetrahydrofuran

Concen: 15.78 ug/l

RT: 4.22 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

155-SOILRE

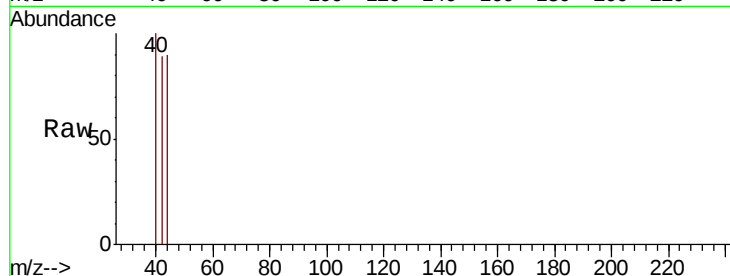
Tot Ion: 42 Resp: 60

Ion Ratio Lower Upper

42 100

72 0.0 29.3 43.9#

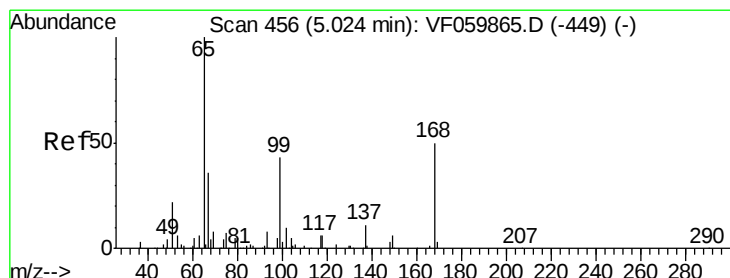
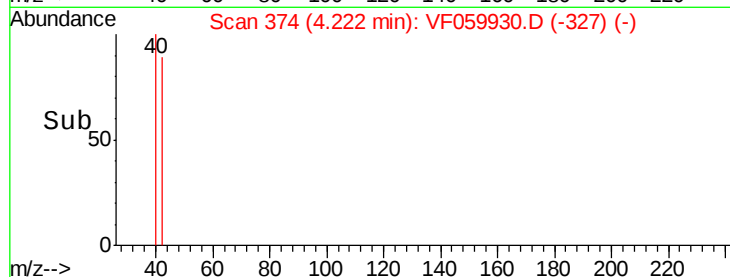
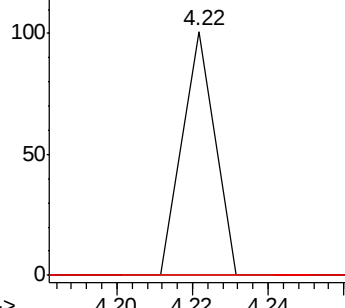
71 0.0 30.0 45.0#



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: 12.56 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF059930.D

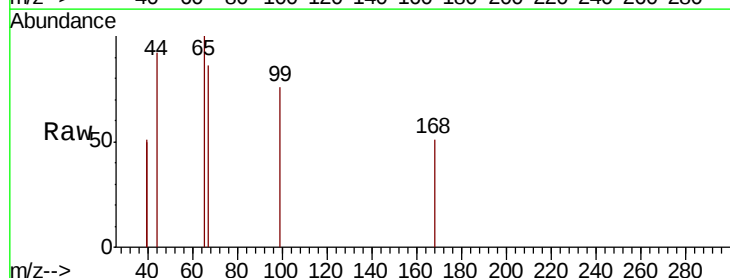
Acq: 8 Aug 2018 14:42

Tgt Ion: 65 Resp: 646

Ion Ratio Lower Upper

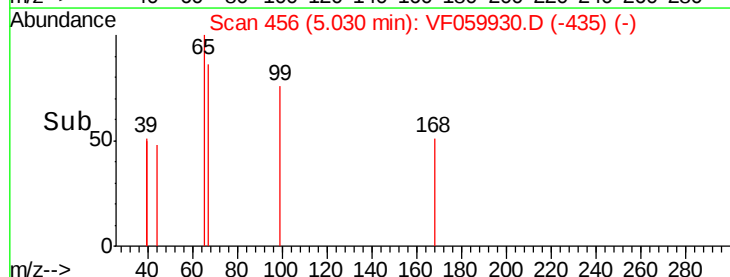
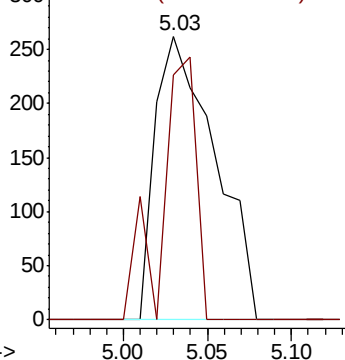
65 100

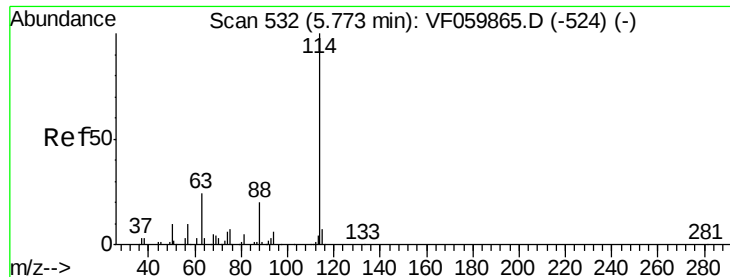
67 86.3 0.0 77.2#



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

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ClientSampleId :

155-SOILRE

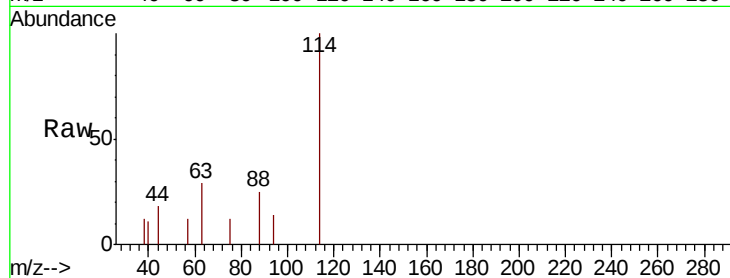
Tot Ion:114 Resp: 2470

Ion Ratio Lower Upper

114 100

63 29.2 0.0 48.0

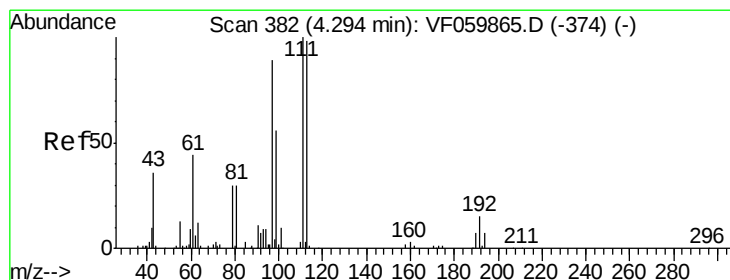
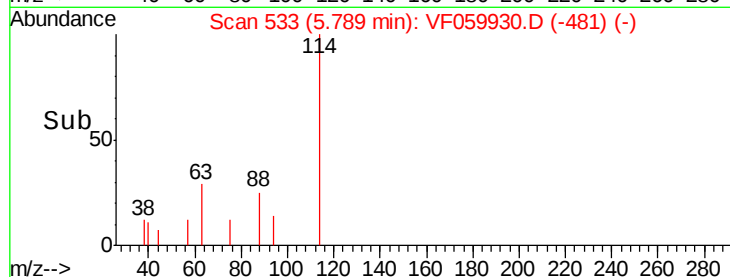
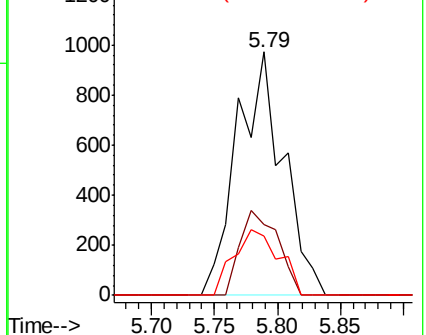
88 24.6 0.0 39.4



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: 35.56 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

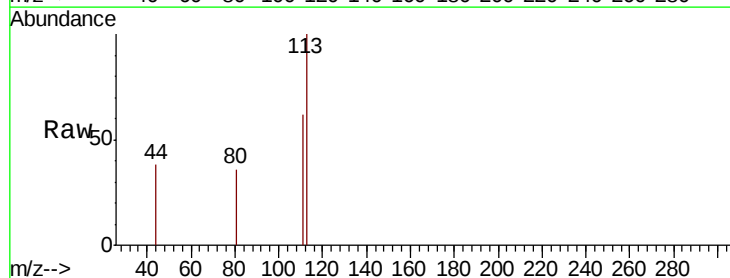
Tgt Ion:113 Resp: 874

Ion Ratio Lower Upper

113 100

111 62.1 81.8 122.8#

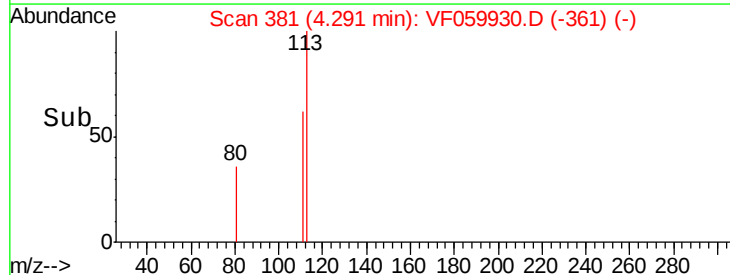
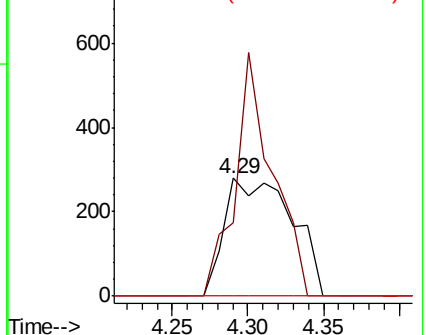
192 0.0 12.4 18.6#

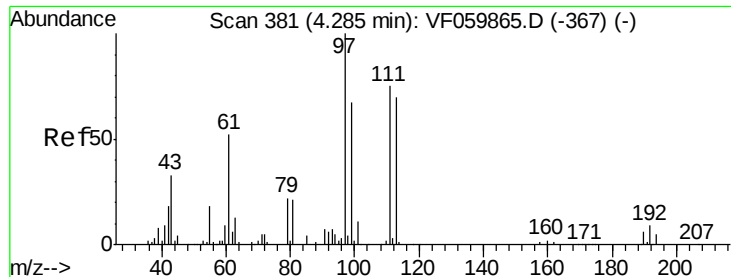


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 4.89 ug/l

RT: 4.37 min Scan# 389

Delta R.T. 0.08 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

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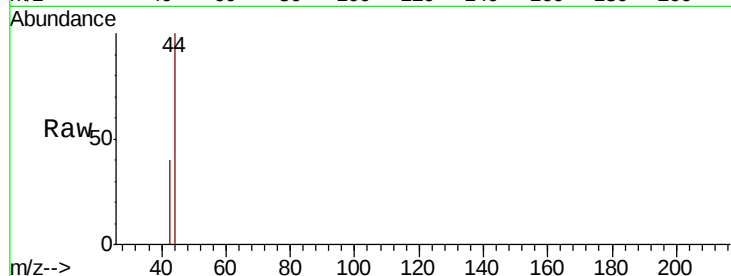
Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

61 0.0 123.7 185.5#

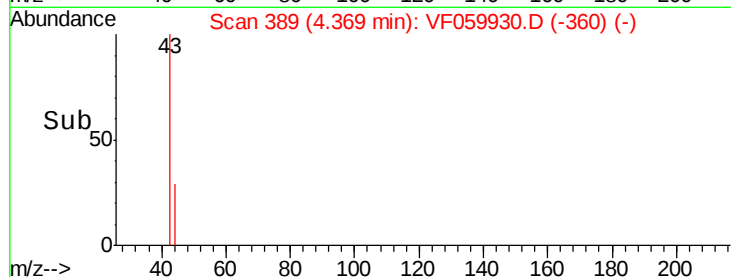
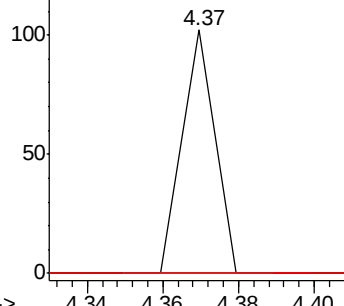
70 0.0 7.8 11.8#



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: 6.89 ug/l

RT: 7.22 min Scan# 678

Delta R.T. 0.10 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

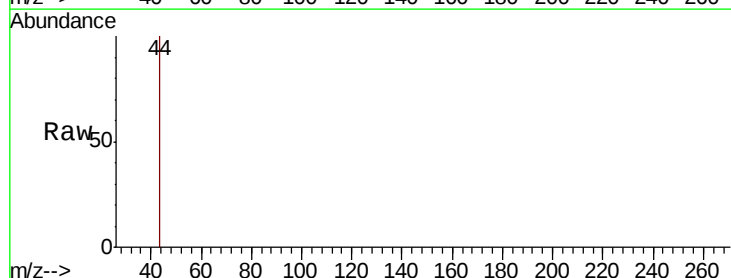
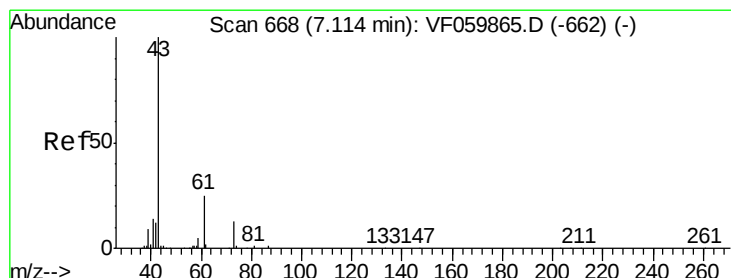
Tgt Ion: 43 Resp: 87

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

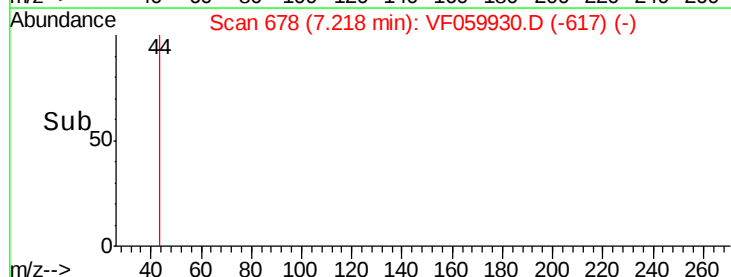
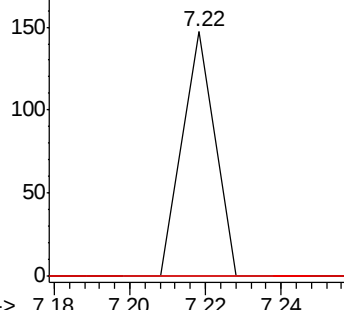
87 0.0 0.7 1.1#

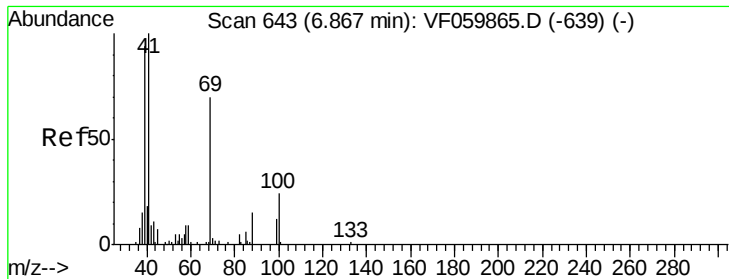


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#49

1,4-Dioxane

Concen: 848.93 ug/l

RT: 6.81 min Scan# 637

Delta R.T. -0.05 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

155-SOILRE

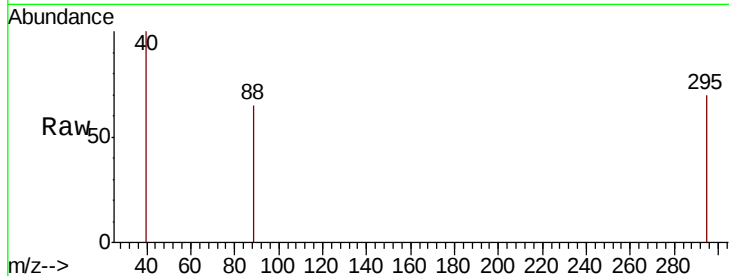
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 0.0 58.3 87.5#

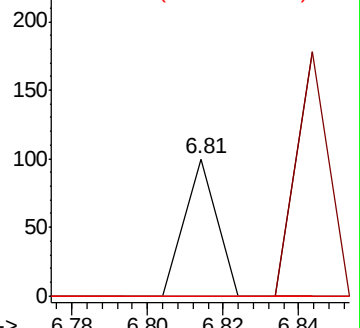
58 0.0 49.4 74.2#



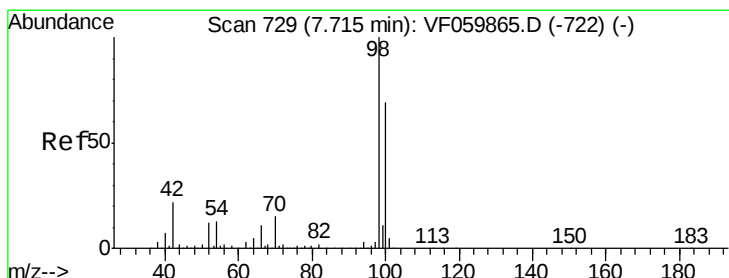
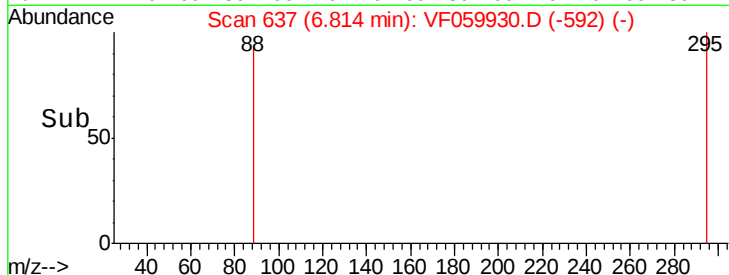
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 40.20 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF059930.D

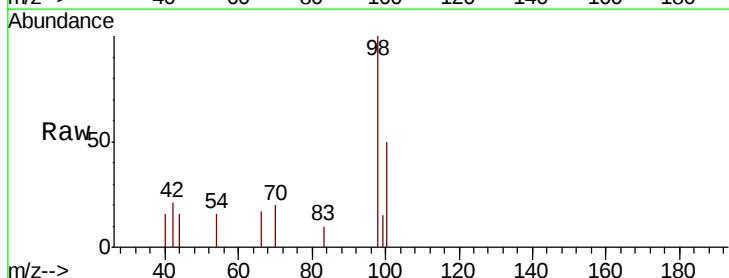
Acq: 8 Aug 2018 14:42

Tgt Ion: 98 Resp: 2102

Ion Ratio Lower Upper

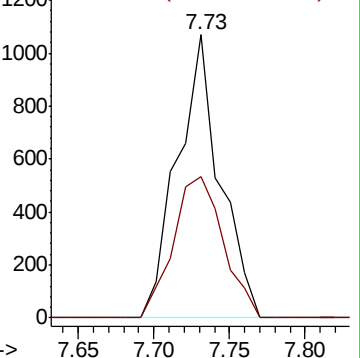
98 100

100 49.8 55.0 82.6#

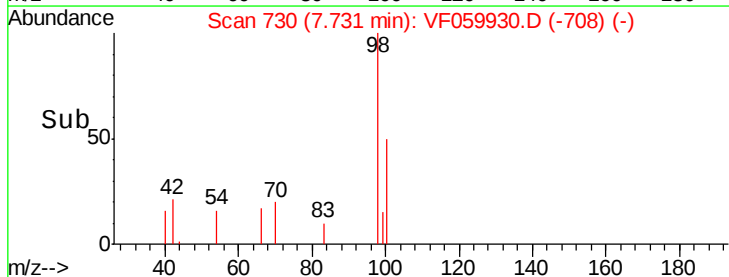


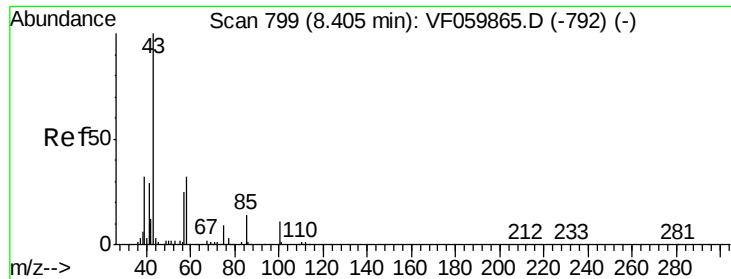
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 4.57 ug/l

RT: 8.47 min Scan# 805

Delta R.T. 0.07 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

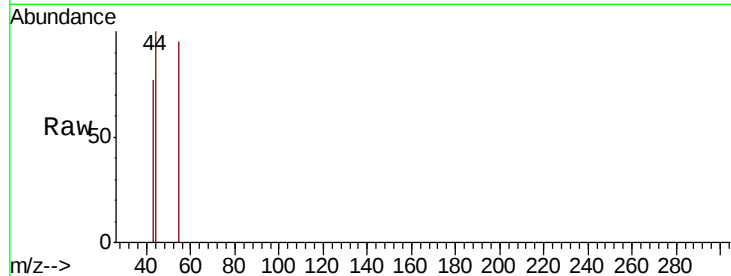
155-SOILRE

Tot Ion: 43 Resp: 59

Ion Ratio Lower Upper

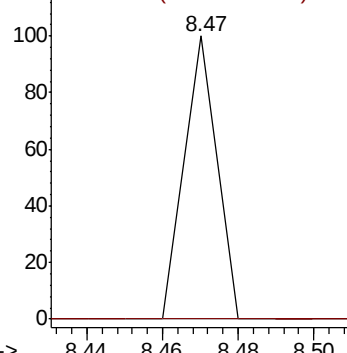
43 100

58 0.0 25.4 38.0#

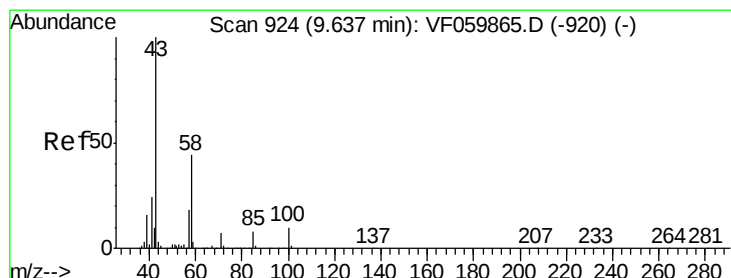
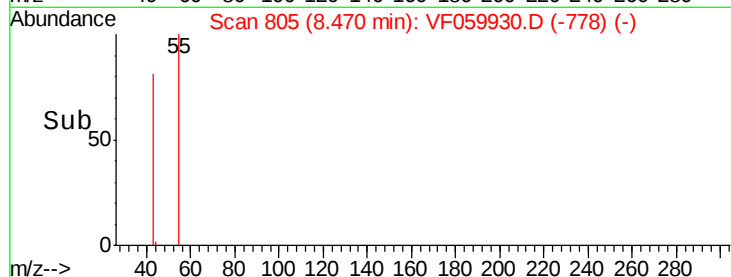


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#59

2-Hexanone

Concen: 7.89 ug/l

RT: 9.67 min Scan# 927

Delta R.T. 0.04 min

Lab File: VF059930.D

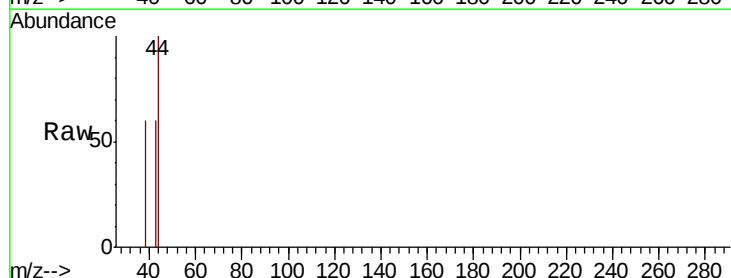
Acq: 8 Aug 2018 14:42

Tgt Ion: 43 Resp: 72

Ion Ratio Lower Upper

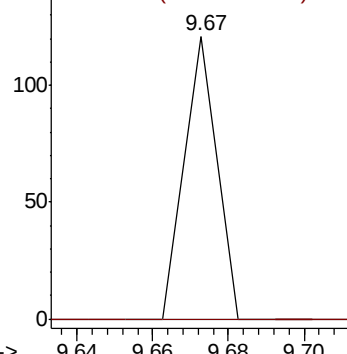
43 100

58 0.0 20.8 62.2#

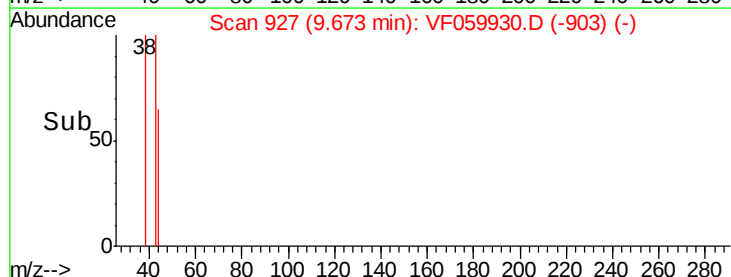


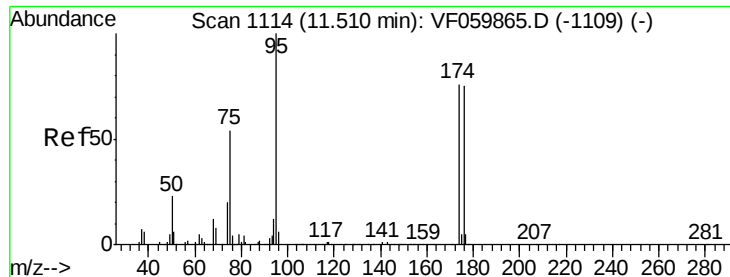
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#62

4-Bromofluorobenzene

Concen: 23.62 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

155-SOILRE

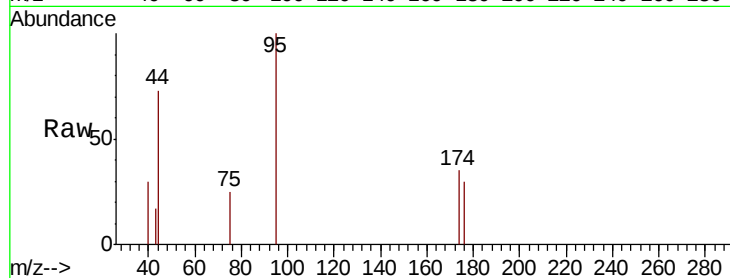
Tot Ion: 95 Resp: 694

Ion Ratio Lower Upper

95 100

174 34.6 0.0 151.6

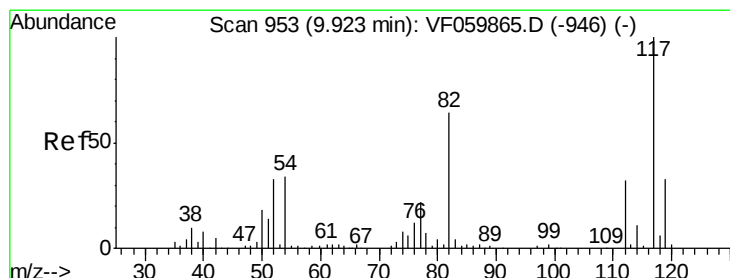
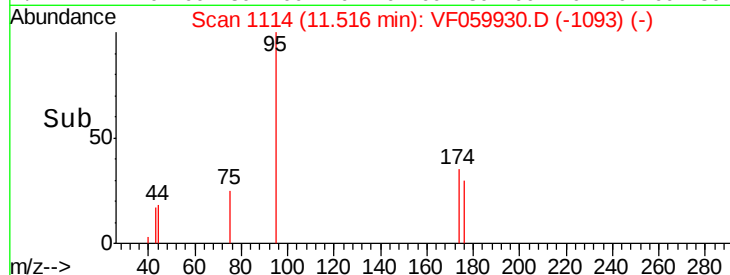
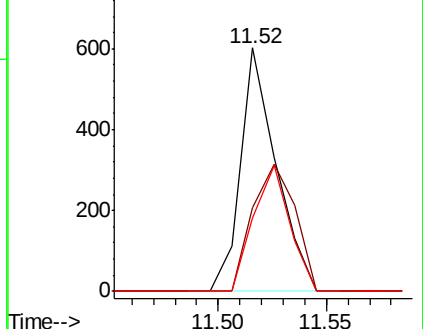
176 30.4 0.0 149.8



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: 50.00 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.02 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

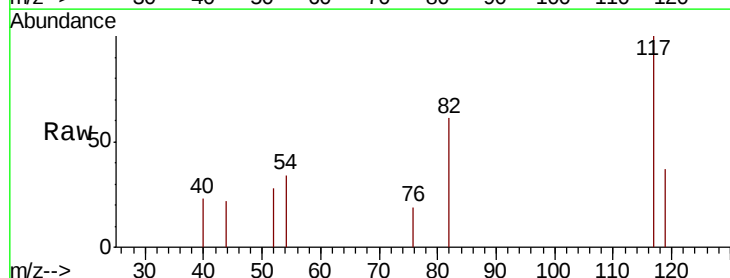
Tgt Ion: 117 Resp: 2010

Ion Ratio Lower Upper

117 100

82 60.9 51.3 76.9

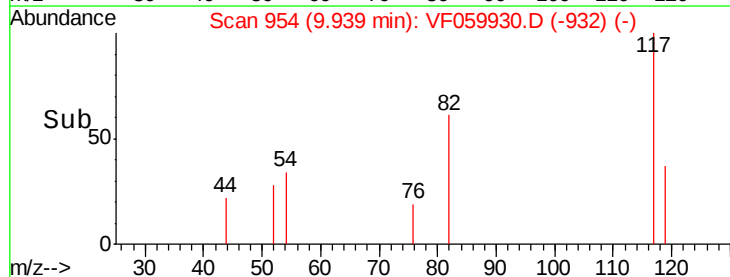
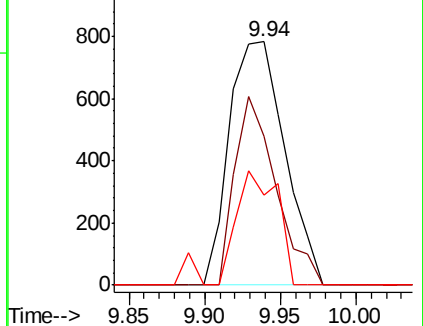
119 37.2 26.4 39.6

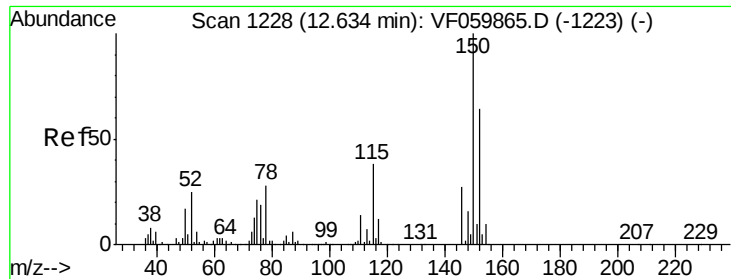


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.02 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

155-SOILRE

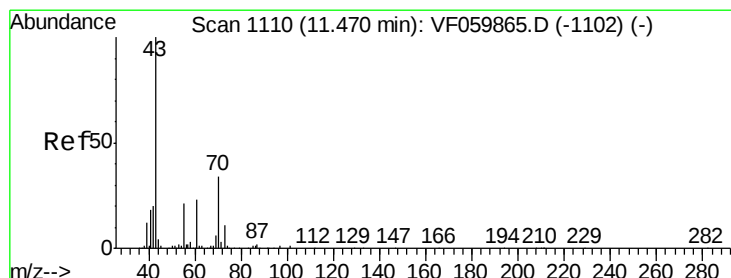
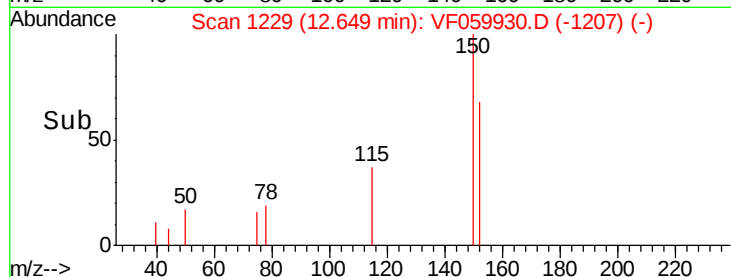
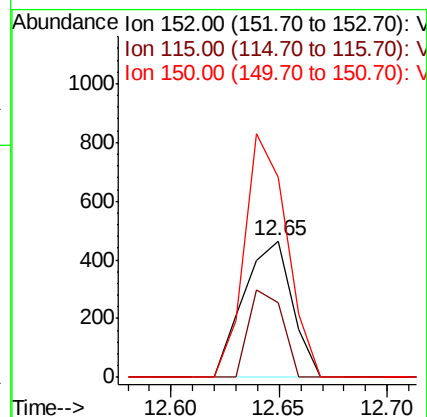
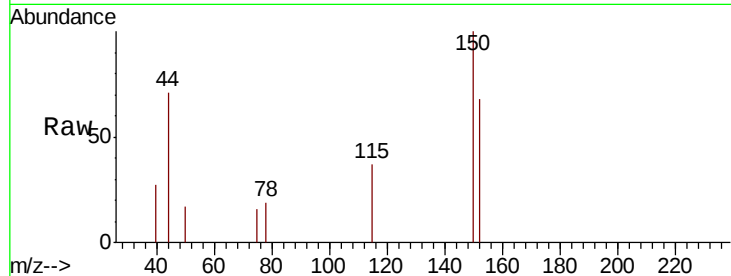
Tot Ion:152 Resp: 729

Ion Ratio Lower Upper

152 100

115 54.8 29.8 89.4

150 146.7 0.0 315.6



#74

N-ethyl acetate

Concen: 10.83 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.03 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Tgt Ion: 43 Resp: 94

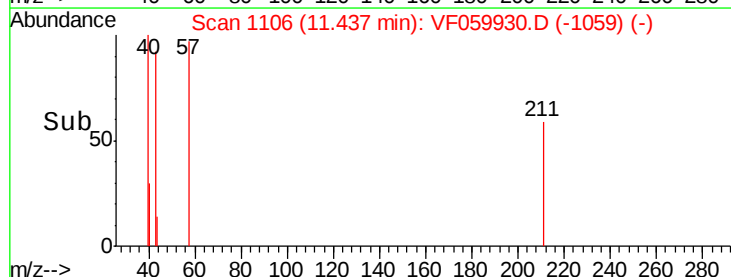
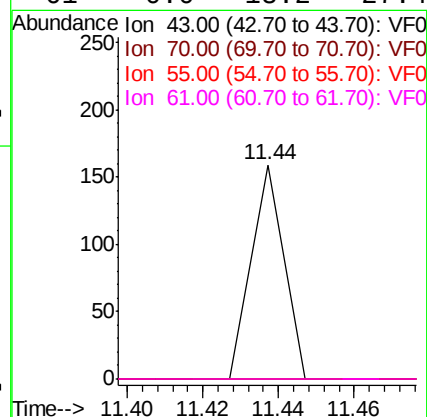
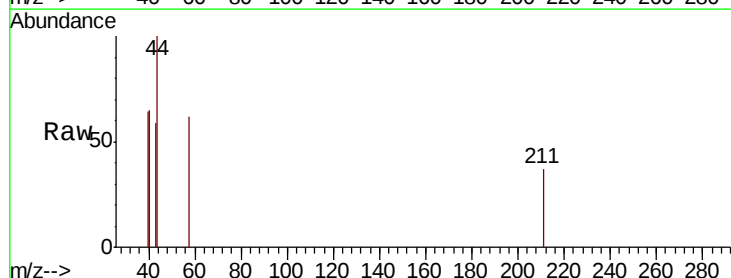
Ion Ratio Lower Upper

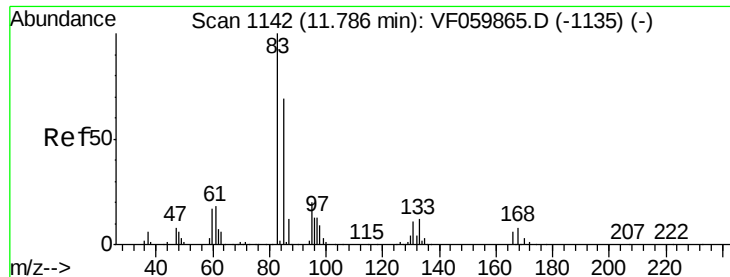
43 100

70 0.0 27.5 41.3#

55 0.0 16.6 25.0#

61 0.0 18.2 27.4#





#75

1,1,2,2-Tetrachloroethane

Concen: 8.33 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.05 min

Lab File: VF059930.D

Acq: 8 Aug 2018 14:42

Instrument :

MSVOA_F

ClientSampleId :

155-SOILRE

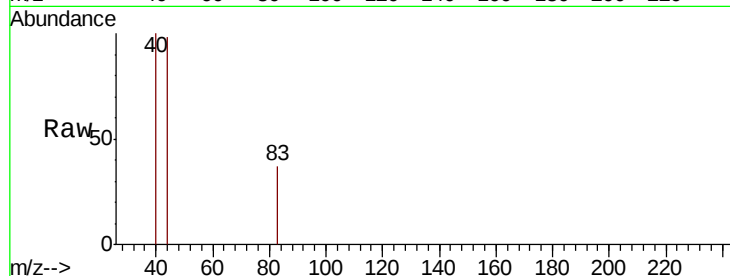
Tot Ion: 83 Resp: 71

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

85 0.0 34.5 103.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

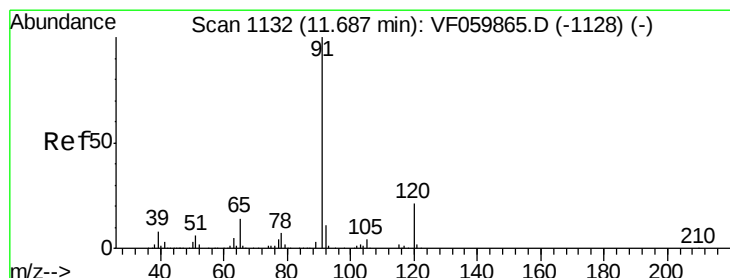
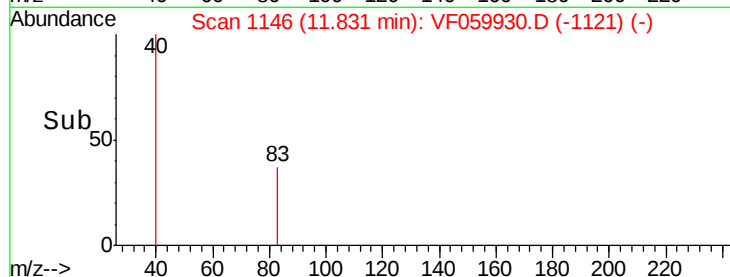
11.83

100

50

0

Time--> 11.80 11.82 11.84 11.86



#78

n-propylbenzene

Concen: 1.19 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF059930.D

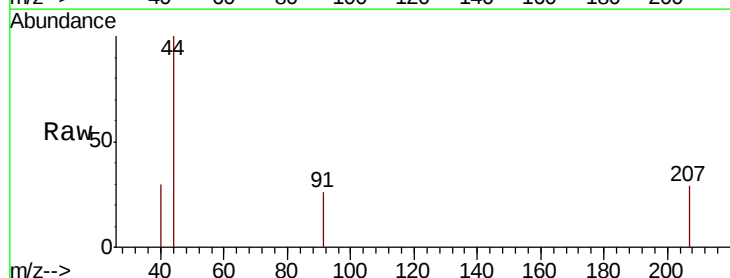
Acq: 8 Aug 2018 14:42

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

120 0.0 10.4 31.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.67

120

100

80

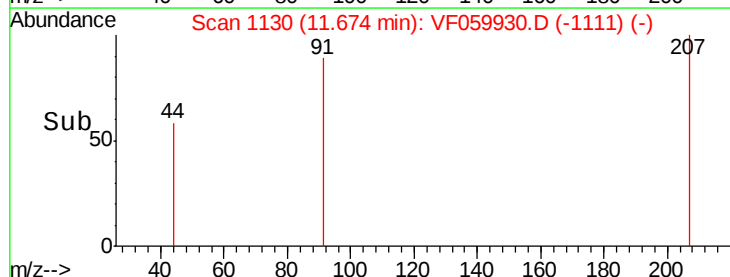
60

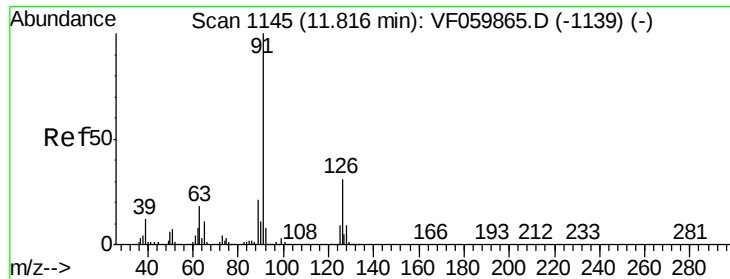
40

20

0

Time--> 11.64 11.66 11.68 11.70

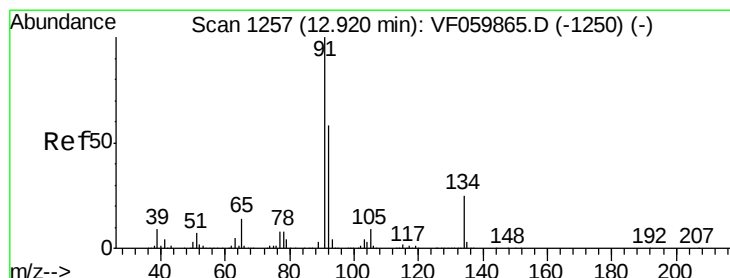
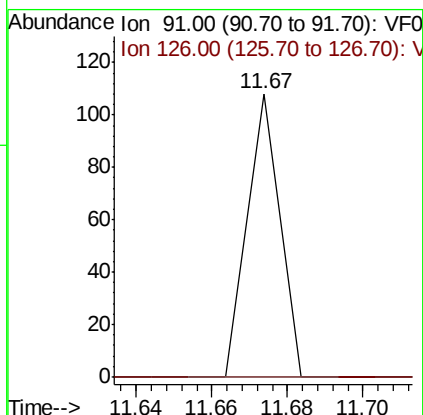
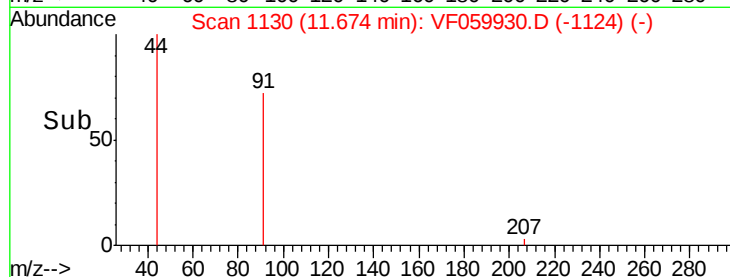
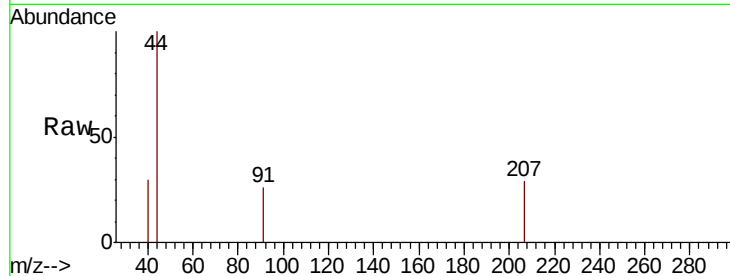




#79
 2-Chlorotoluene
 Concen: 1.89 ug/l
 RT: 11.67 min Scan# 1130
 Delta R.T. -0.14 min
 Lab File: VF059930.D
 Acq: 8 Aug 2018 14:42

Instrument :
 MSVOA_F
 ClientSampleId :
 155-SOILRE

Tot Ion: 91 Resp: 64
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.6 46.7#



#89
 n-Butylbenzene
 Concen: 1.58 ug/l
 RT: 12.95 min Scan# 1259
 Delta R.T. 0.03 min
 Lab File: VF059930.D
 Acq: 8 Aug 2018 14:42

Tgt Ion: 91 Resp: 69
 Ion Ratio Lower Upper
 91 100
 92 0.0 28.8 86.5#
 134 0.0 12.6 37.6#

