

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059627.D
 Acq On : 23 Jul 2018 21:21
 Operator : VA/AP
 Sample : J4099-07
 Misc : 6.23g/5mL/MSVOA_F/SOIL
 ALS Vial : 98 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-07

Quant Time: Jul 24 04:51:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 04:17:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	208607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	296851	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	197044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	63149	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	107524	32.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.50%	
35) Dibromofluoromethane	4.28	113	90287	32.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.94%	
50) Toluene-d8	7.70	98	177857	25.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	51.88%	
62) 4-Bromofluorobenzene	11.51	95	59428	15.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	30.02%	

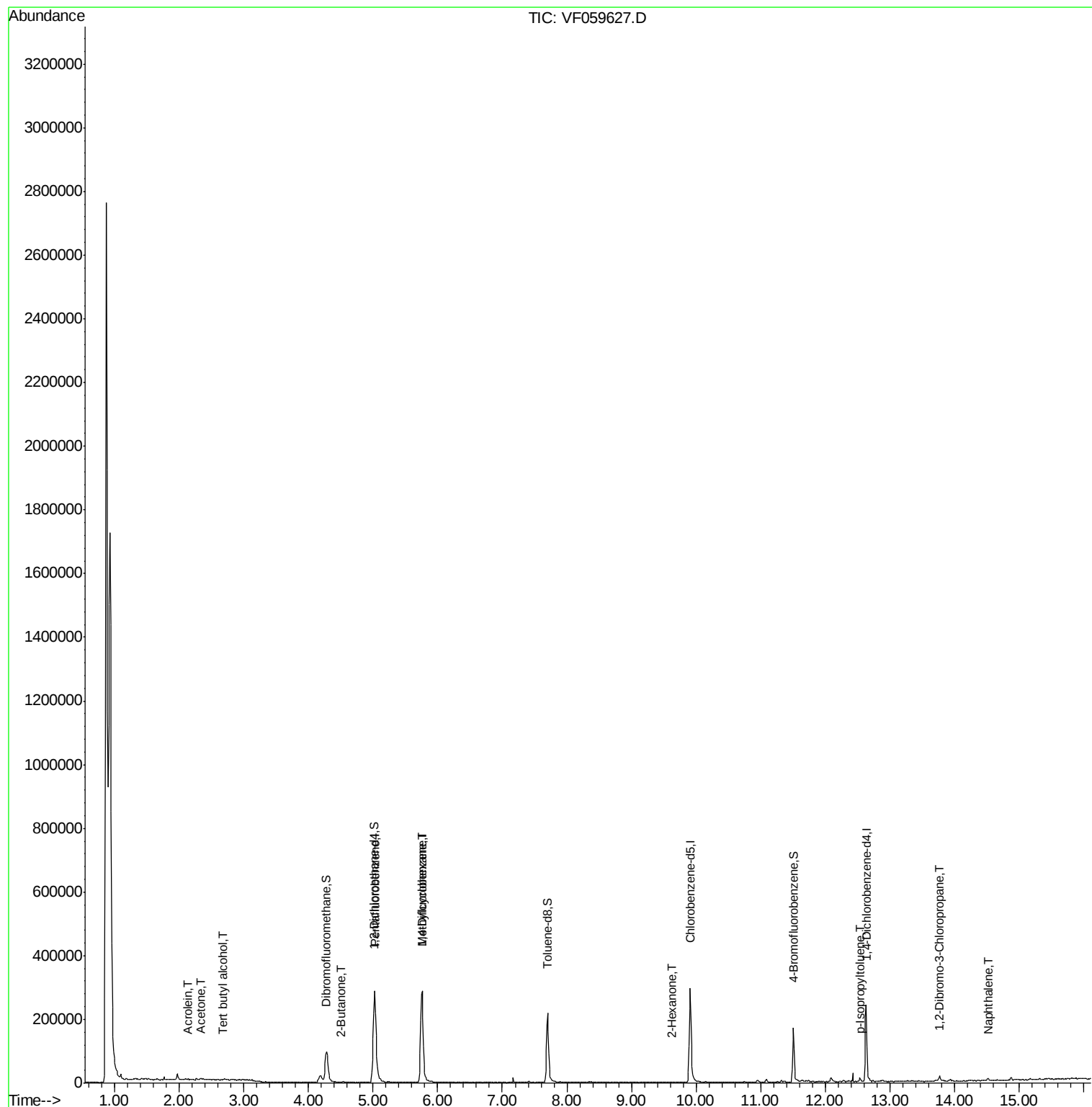
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	451	3.375	ug/l #	72
13) Acrolein	2.13	56	396	5.910	ug/l	90
16) Acetone	2.34	43	5113	9.084	ug/l	98
18) Methyl Acetate	2.45	43	1713	Below Cal		97
20) Methylene Chloride	2.28	84	1603	Below Cal #		71
25) 2-Butanone	4.51	43	857	1.477	ug/l #	1
39) Methylcyclohexane	5.76	83	3787	1.553	ug/l #	39
49) 1,4-Dioxane	6.93	88	88	Below Cal #		16
59) 2-Hexanone	9.63	43	923	1.011	ug/l #	33
86) p-Isopropyltoluene	12.53	119	5709	1.414	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	215	1.327	ug/l #	8
95) Naphthalene	14.52	128	3509	1.556	ug/l	97

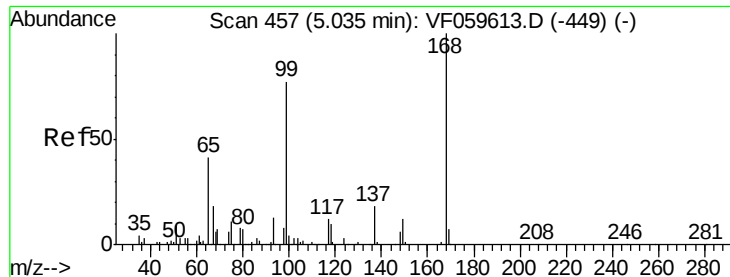
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

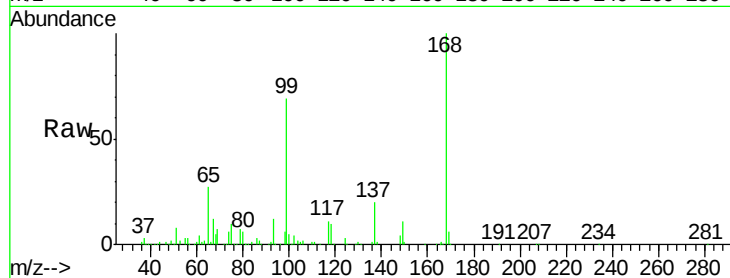
GL-TOPSOIL-07

Tgt Ion:168 Resp: 208607

Ion Ratio Lower Upper

168 100

99 69.0 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

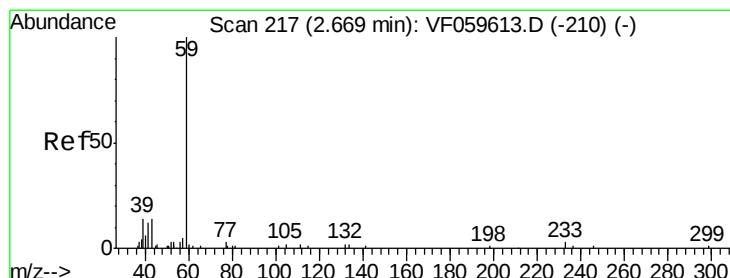
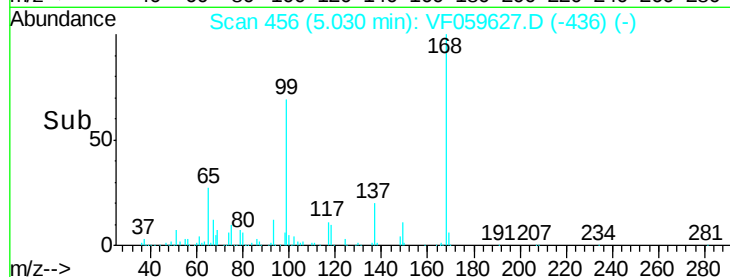
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 3.375 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.01 min

Lab File: VF059627.D

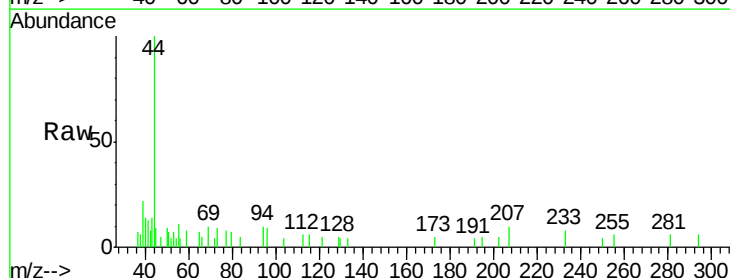
Acq: 23 Jul 2018 21:21

Tgt Ion: 59 Resp: 451

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

300

250

200

150

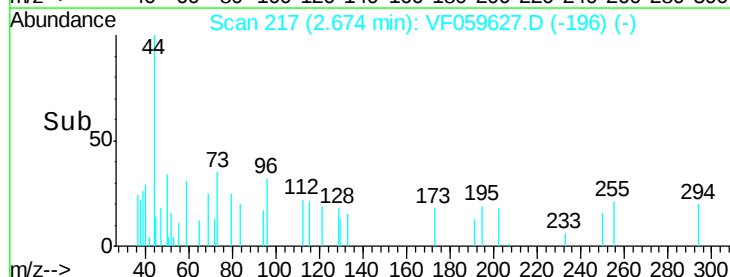
100

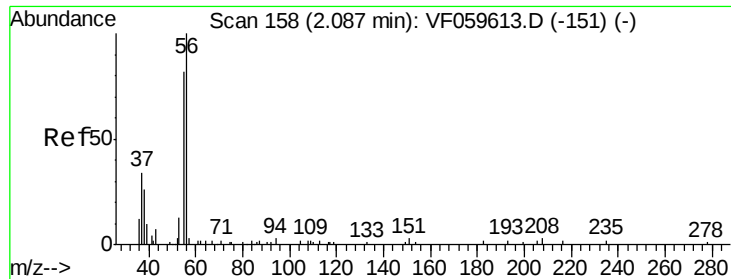
50

0

2.65 2.70 2.75

Time-->

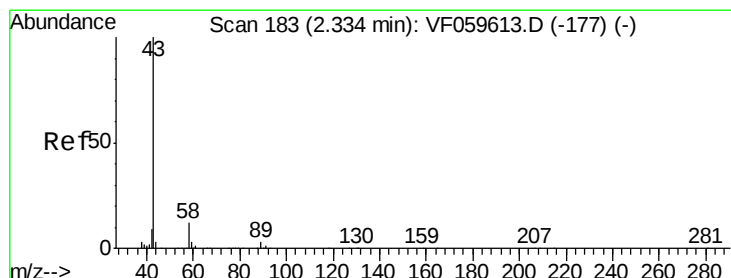
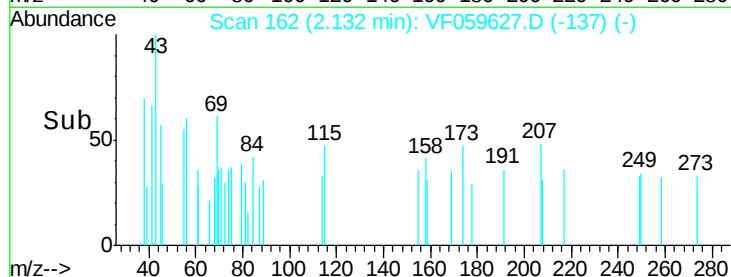
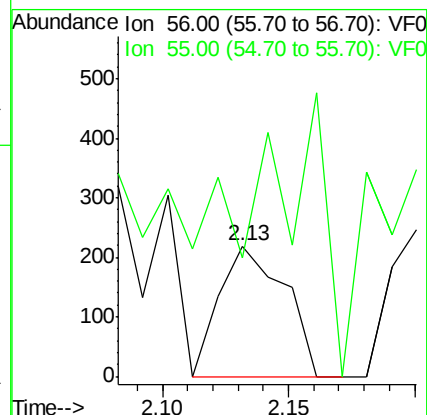
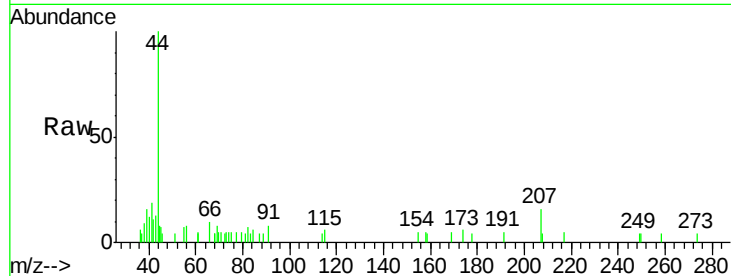




#13
Acrolein
Concen: 5.910 ug/l
RT: 2.13 min Scan# 162
Delta R.T. 0.04 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

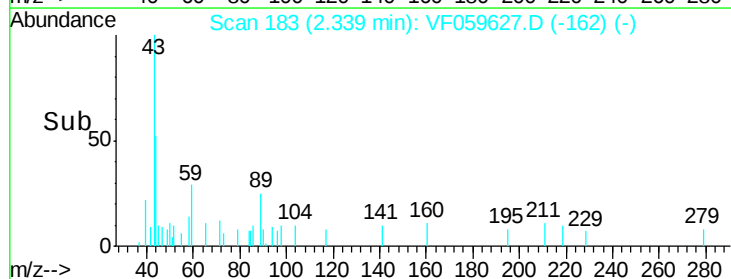
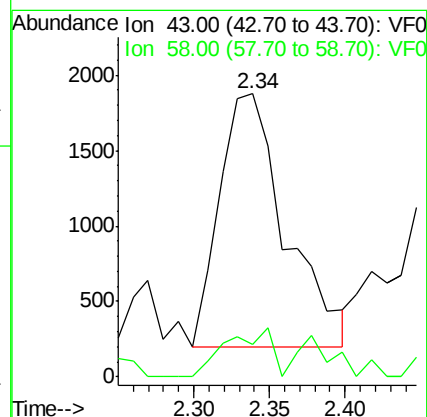
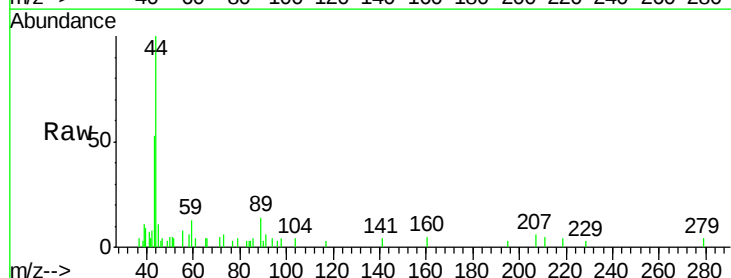
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-07

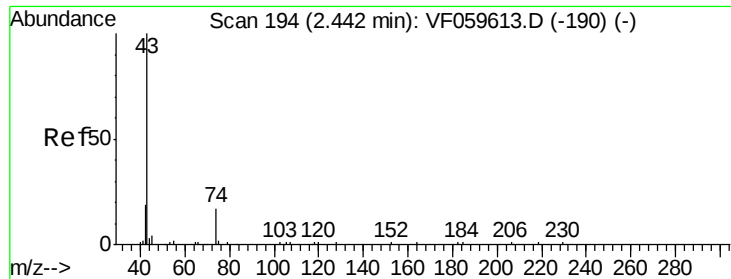
Tgt Ion: 56 Resp: 396
Ion Ratio Lower Upper
56 100
55 91.3 65.6 98.4



#16
Acetone
Concen: 9.084 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

Tgt Ion: 43 Resp: 5113
Ion Ratio Lower Upper
43 100
58 11.4 9.8 14.8

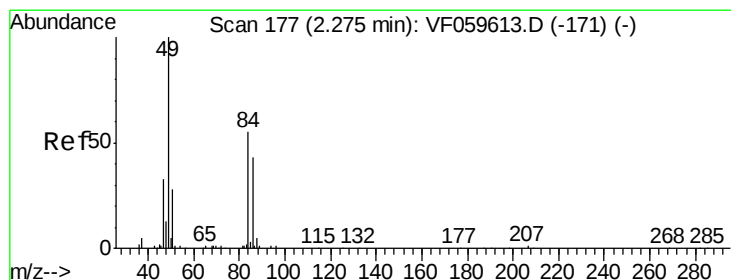
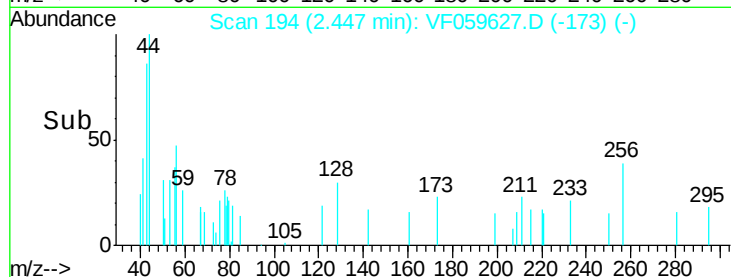
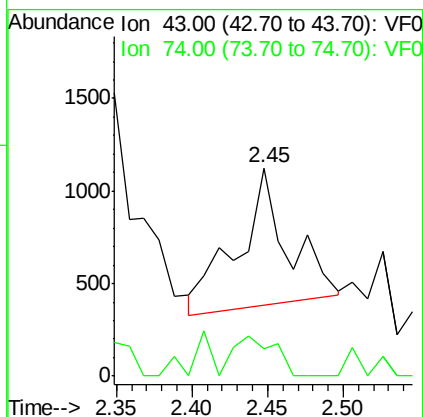
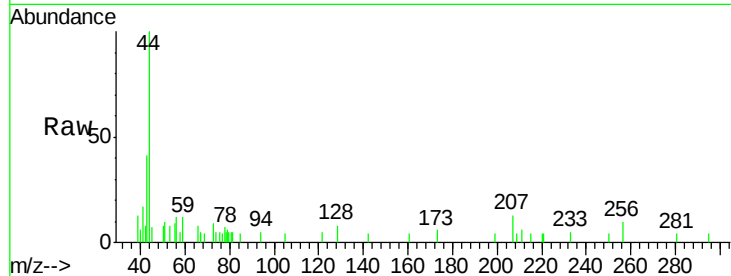




#18
Methyl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 194
Delta R.T. 0.01 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

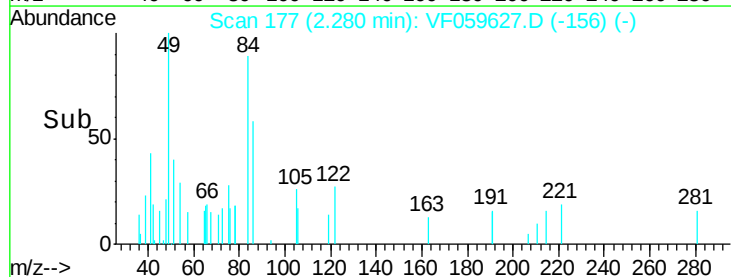
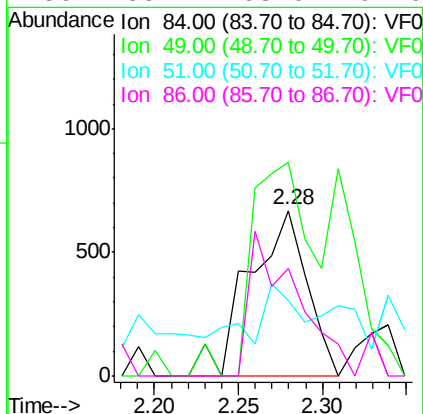
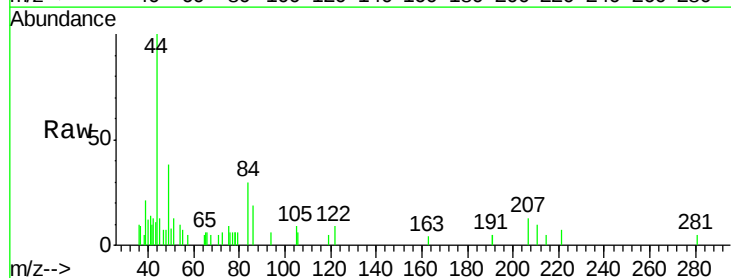
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-07

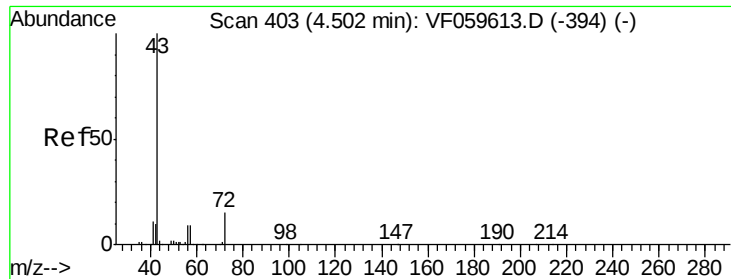
Tgt Ion: 43 Resp: 1713
Ion Ratio Lower Upper
43 100
74 13.0 11.4 17.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

Tgt Ion: 84 Resp: 1603
Ion Ratio Lower Upper
84 100
49 129.0 148.6 222.8#
51 45.4 42.7 64.1
86 65.1 63.0 94.6





#25

2-Butanone

Concen: 1.477 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

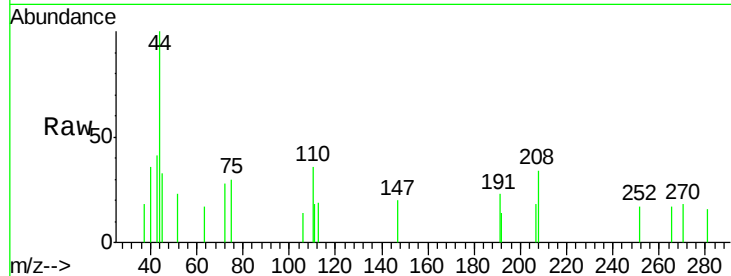
GL-TOPSOIL-07

Tgt Ion: 43 Resp: 857

Ion Ratio Lower Upper

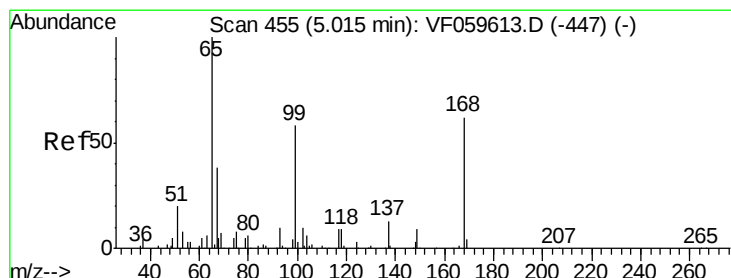
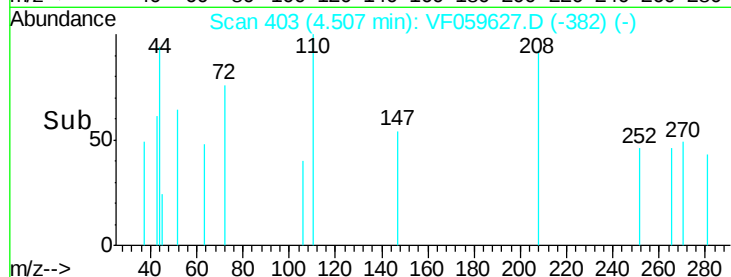
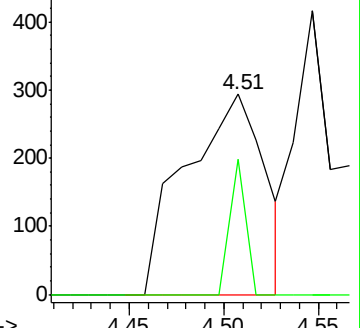
43 100

72 67.7 12.9 19.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 32.755 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059627.D

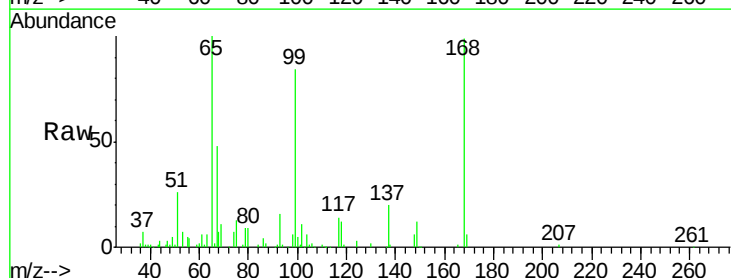
Acq: 23 Jul 2018 21:21

Tgt Ion: 65 Resp: 107524

Ion Ratio Lower Upper

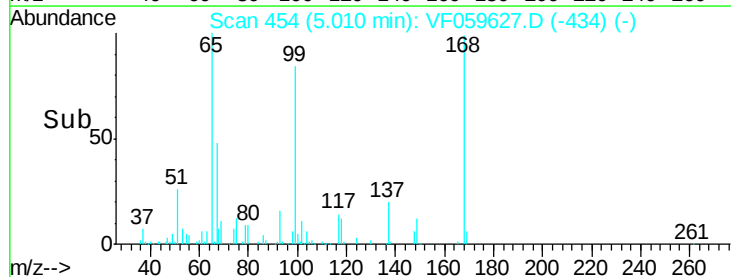
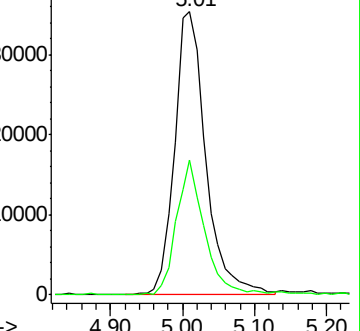
65 100

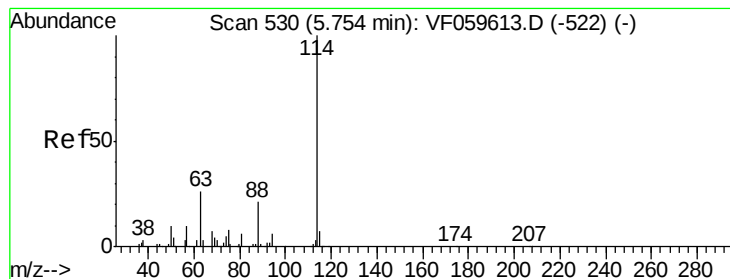
67 47.6 0.0 83.8



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# 530

Delta R.T. 0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-07

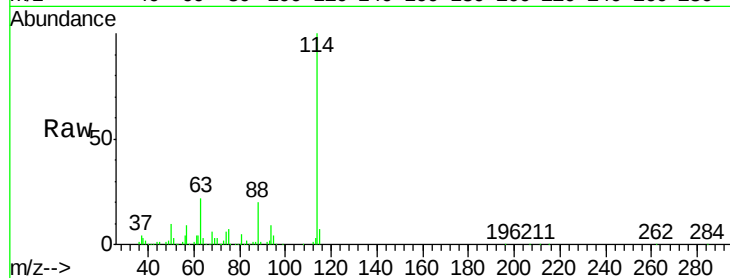
Tgt Ion:114 Resp: 296851

Ion Ratio Lower Upper

114 100

63 21.7 0.0 51.8

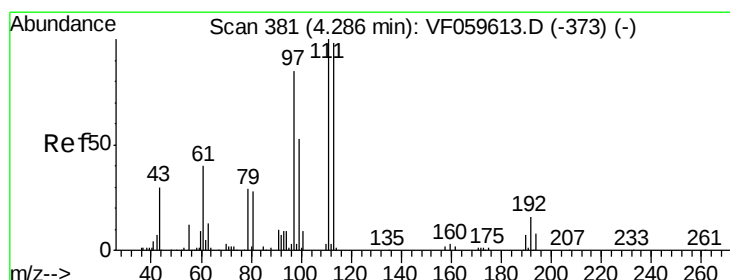
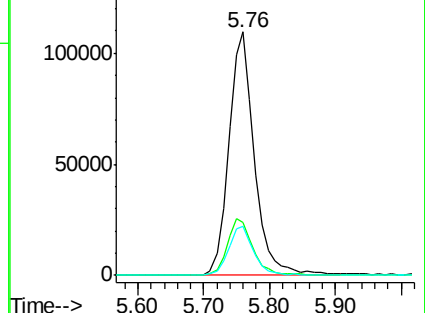
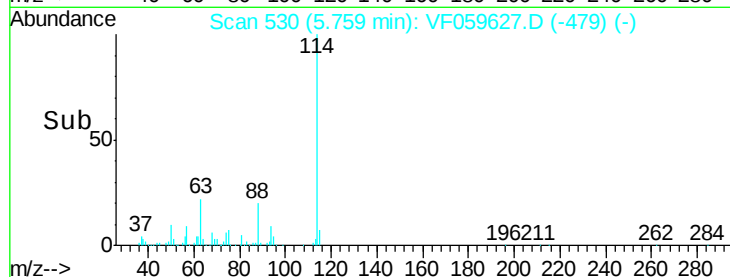
88 20.4 0.0 42.8



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: 32.965 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

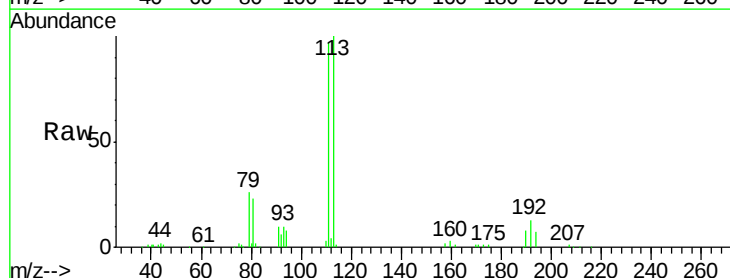
Tgt Ion:113 Resp: 90287

Ion Ratio Lower Upper

113 100

111 96.8 81.5 122.3

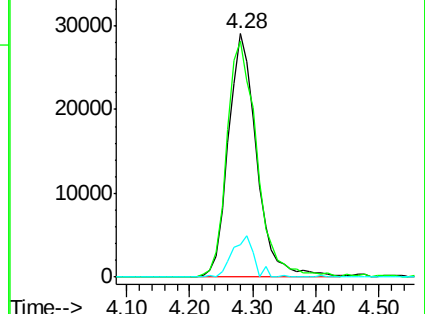
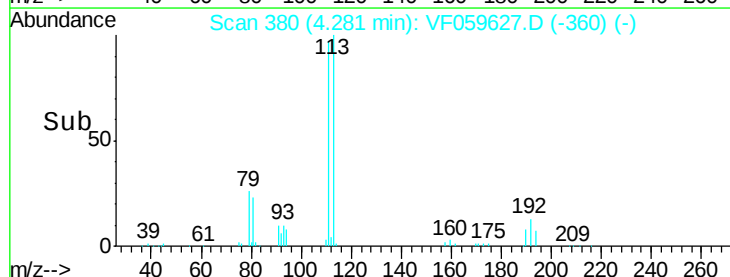
192 13.4 13.4 20.2#

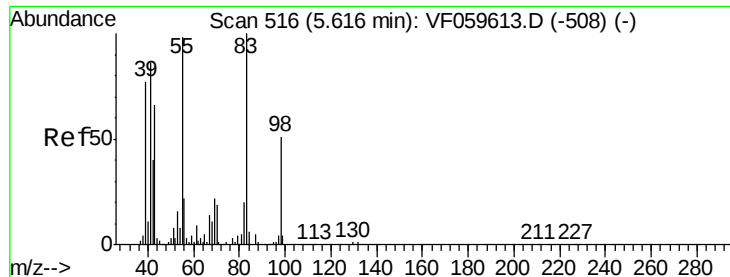


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#39

Methylcyclohexane

Concen: 1.553 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.14 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

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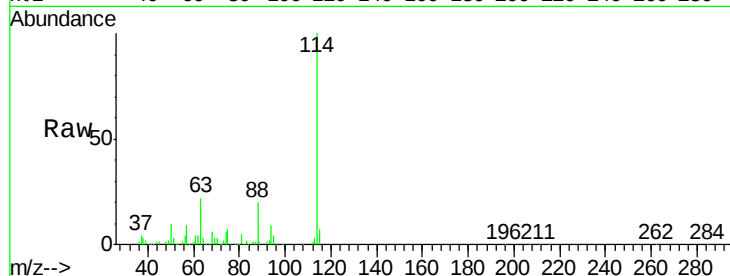
Tgt Ion: 83 Resp: 3787

Ion Ratio Lower Upper

83 100

55 44.2 78.5 117.7#

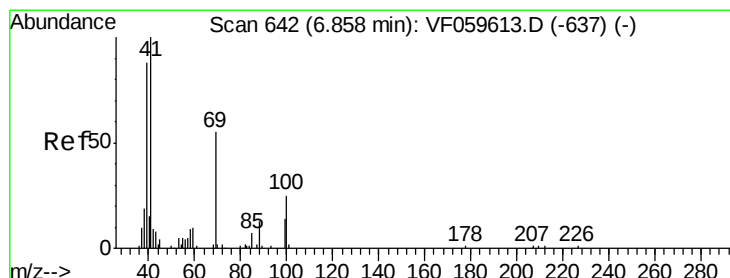
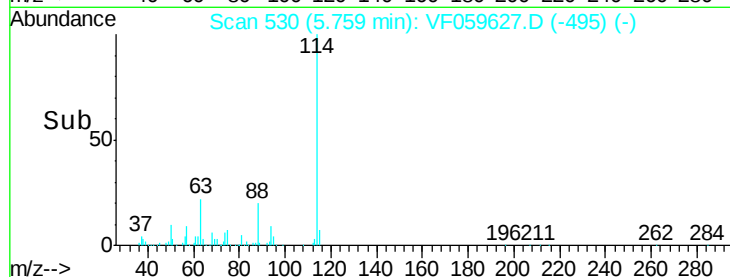
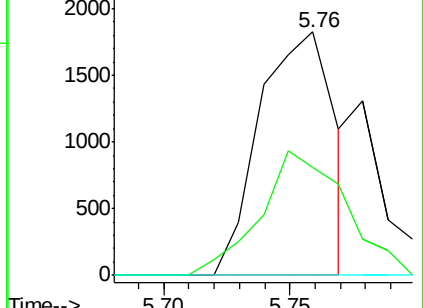
98 0.0 41.1 61.7#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.07 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

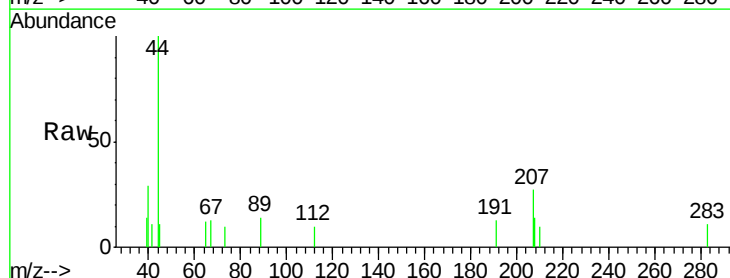
Tgt Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 0.0 54.2 81.4#

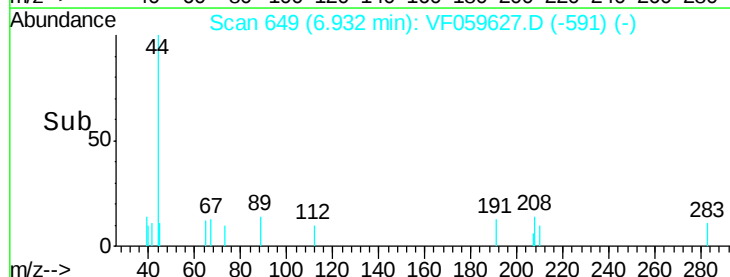
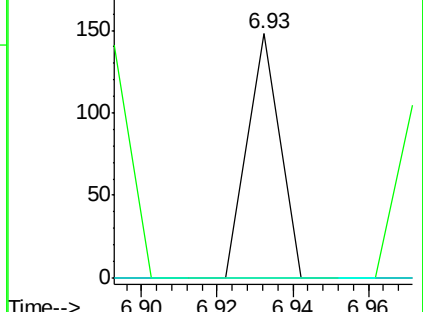
58 0.0 54.3 81.5#

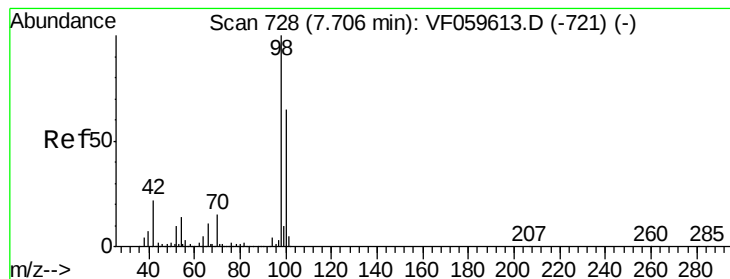


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 25.936 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

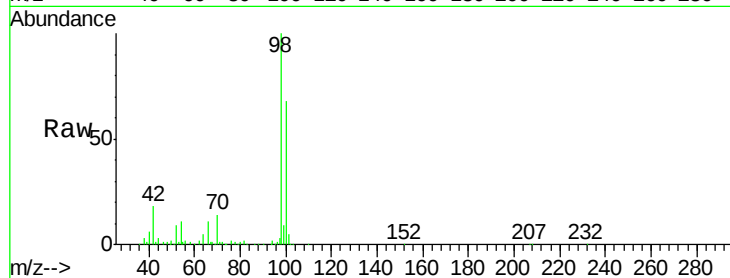
GL-TOPSOIL-07

Tgt Ion: 98 Resp: 177857

Ion Ratio Lower Upper

98 100

100 68.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

80000

60000

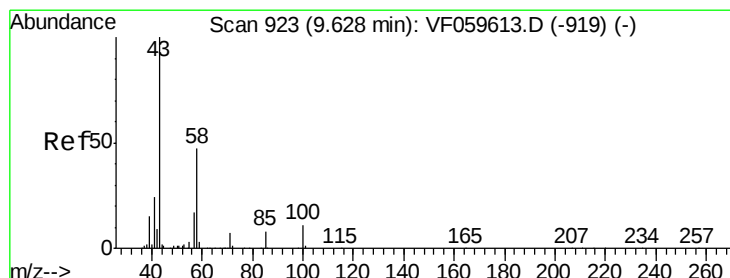
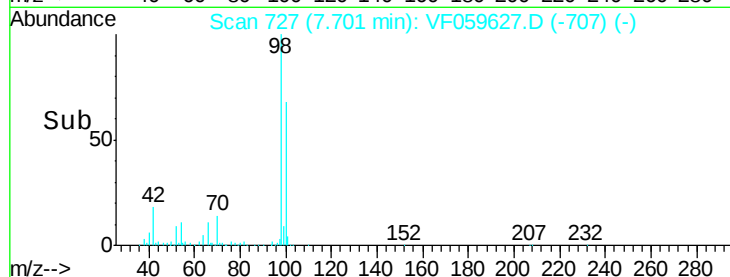
40000

20000

0

Time-->

7.60 7.70 7.80 7.90



#59

2-Hexanone

Concen: 1.011 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.00 min

Lab File: VF059627.D

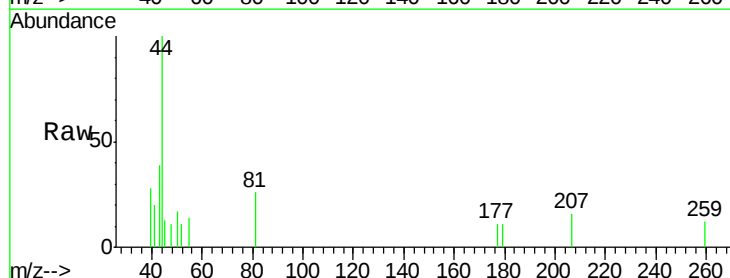
Acq: 23 Jul 2018 21:21

Tgt Ion: 43 Resp: 923

Ion Ratio Lower Upper

43 100

58 0.0 21.1 63.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

400

300

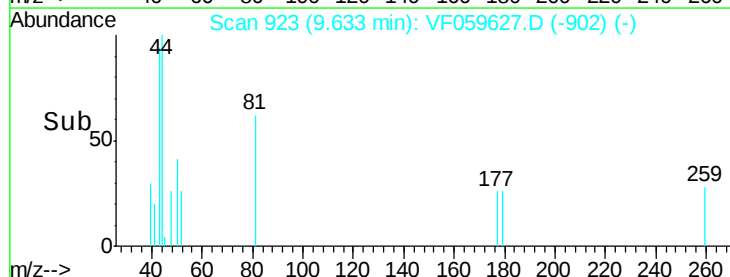
200

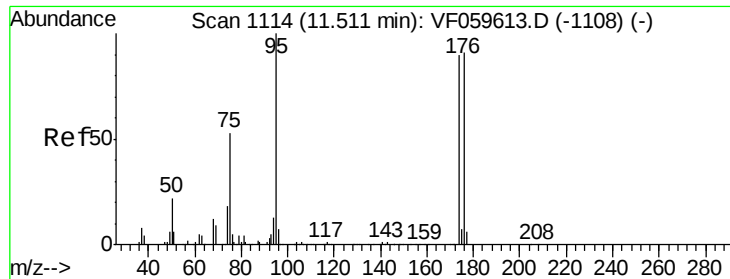
100

0

Time-->

9.55 9.60 9.65 9.70





#62

4-Bromofluorobenzene

Concen: 15.013 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-07

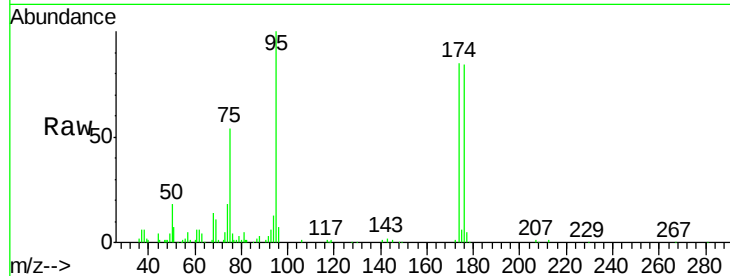
Tgt Ion: 95 Resp: 59428

Ion Ratio Lower Upper

95 100

174 84.8 0.0 180.6

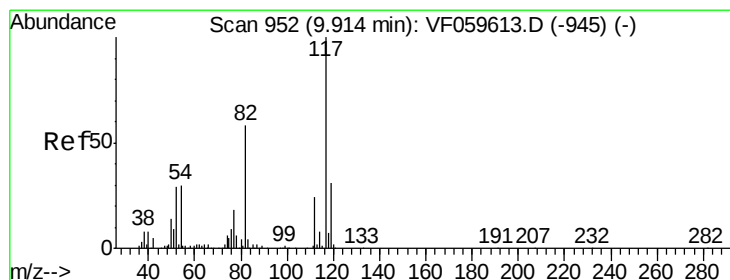
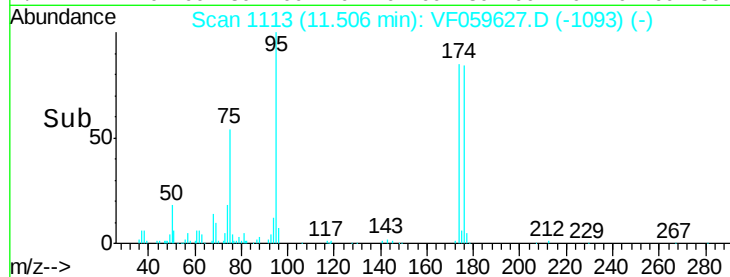
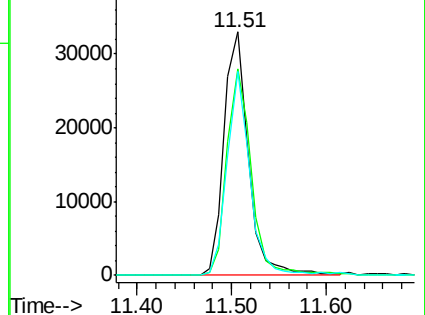
176 84.0 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

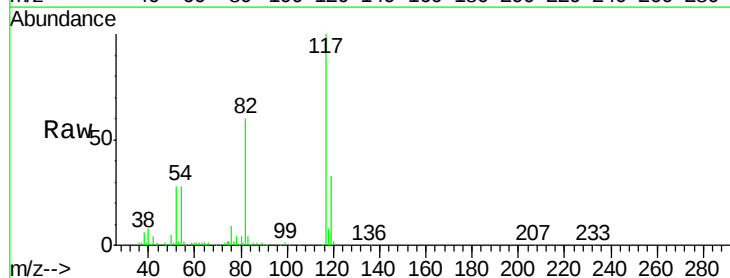
Tgt Ion: 117 Resp: 197044

Ion Ratio Lower Upper

117 100

82 59.9 46.5 69.7

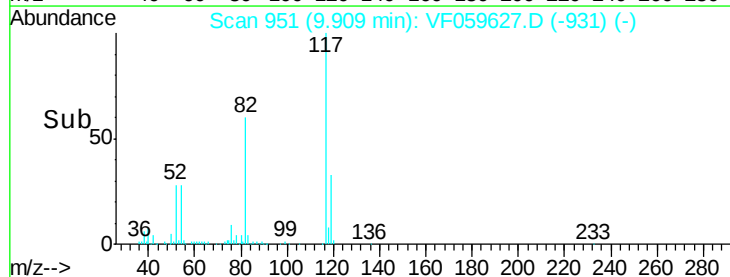
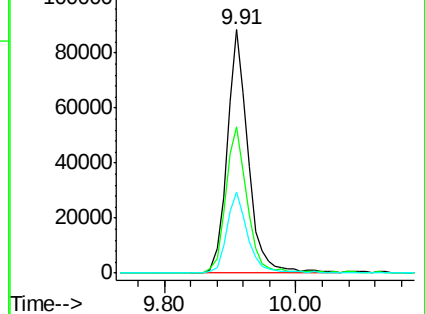
119 33.4 24.4 36.6

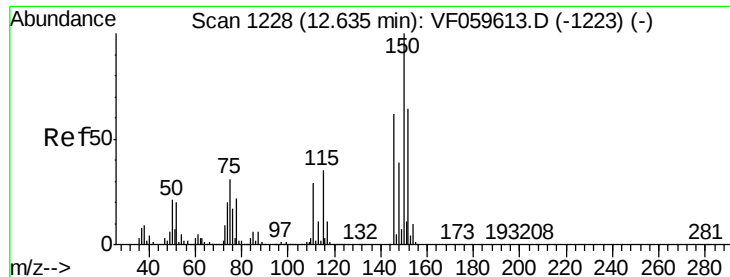


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



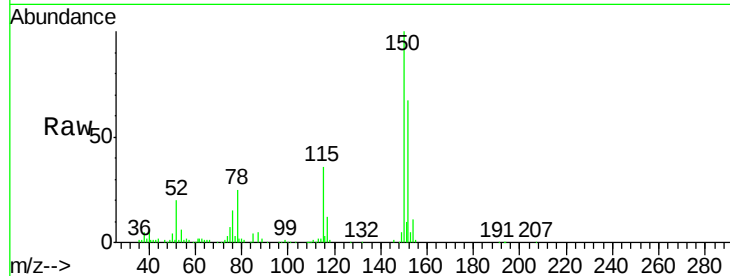


#72

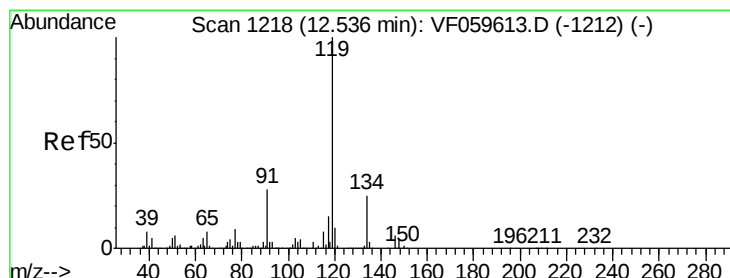
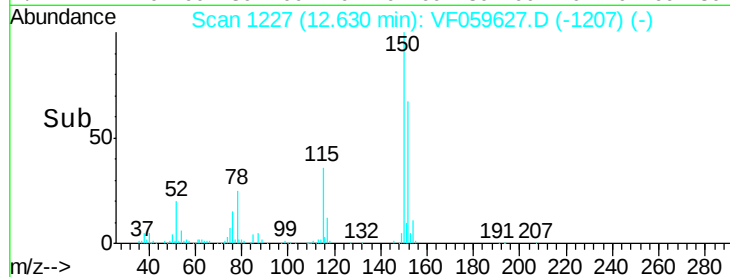
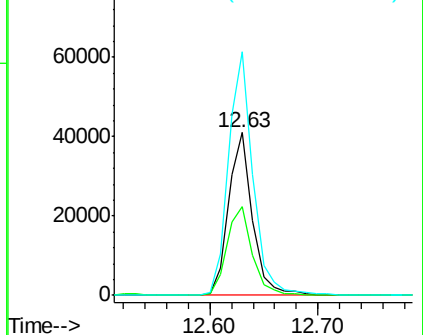
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-07

Tgt Ion:152 Resp: 63149
Ion Ratio Lower Upper
152 100
115 54.6 27.8 83.4
150 149.7 0.0 314.6



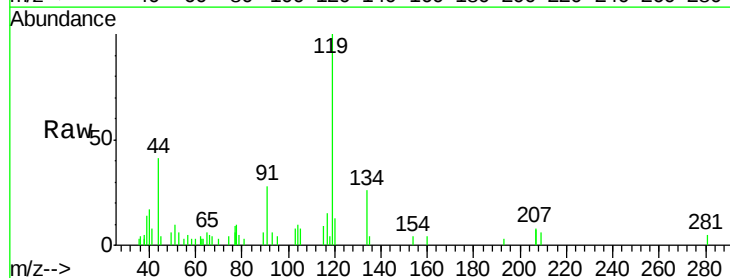
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



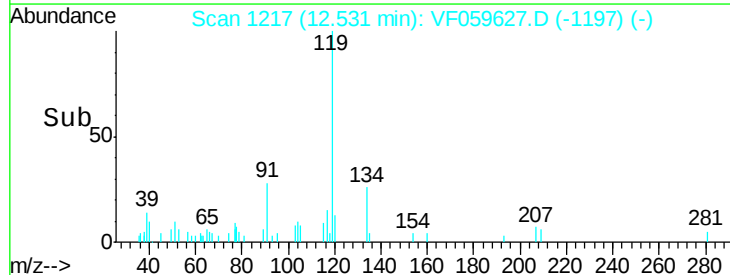
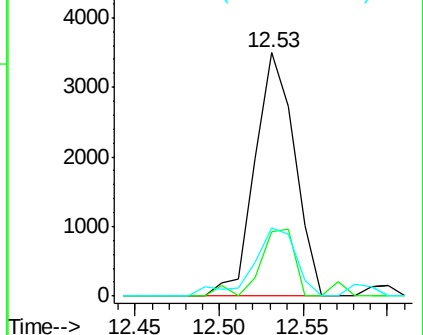
#86

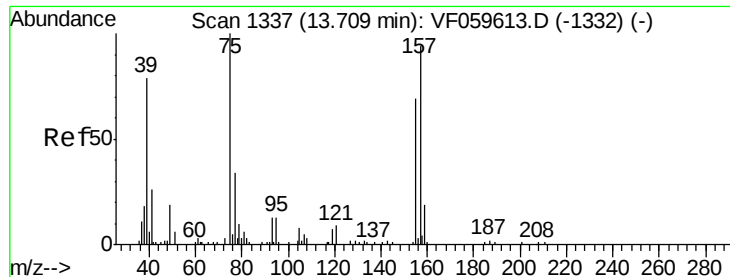
p-Isopropyltoluene
Concen: 1.414 ug/l
RT: 12.53 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF059627.D
Acq: 23 Jul 2018 21:21

Tgt Ion:119 Resp: 5709
Ion Ratio Lower Upper
119 100
134 26.5 12.4 37.2
91 28.0 13.9 41.7



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.327 ug/l

RT: 13.75 min Scan# 1341

Delta R.T. 0.04 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-07

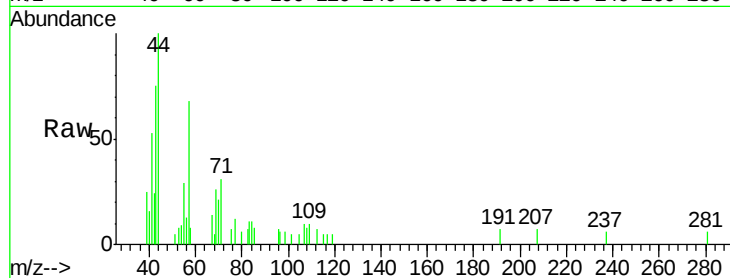
Tgt Ion: 75 Resp: 215

Ion Ratio Lower Upper

75 100

155 0.0 34.6 103.8#

157 0.0 47.0 141.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

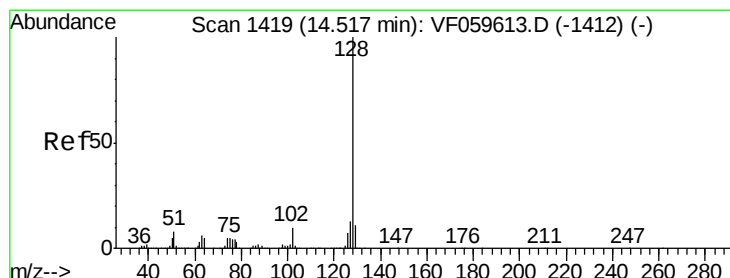
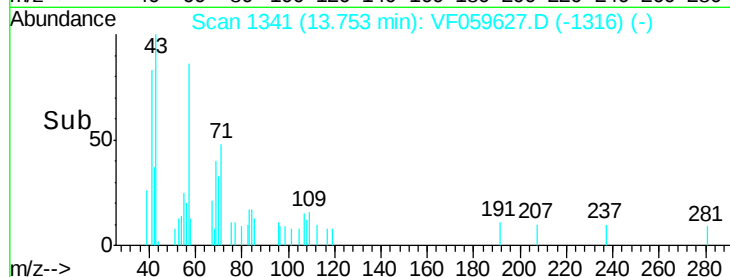
13.75

100

50

0

Time--> 13.70 13.75 13.80



#95

Naphthalene

Concen: 1.556 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059627.D

Acq: 23 Jul 2018 21:21

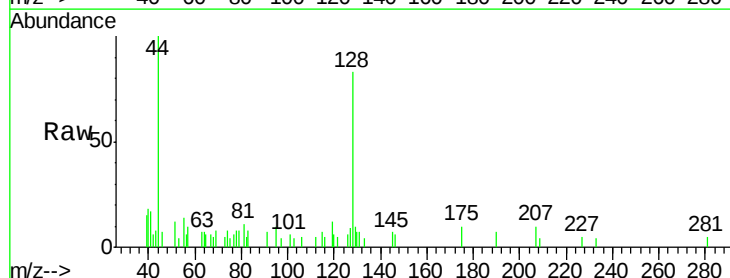
Tgt Ion: 128 Resp: 3509

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

129 11.9 9.1 13.7



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

14.52

2500

2000

1500

1000

500

0

Time--> 14.45 14.50 14.55 14.60

