

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042219\
 Data File : VF062252.D
 Acq On : 22 Apr 2019 18:43
 Operator : FY/SY
 Sample : K2485-01
 Misc : 7.05g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Apr 23 01:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

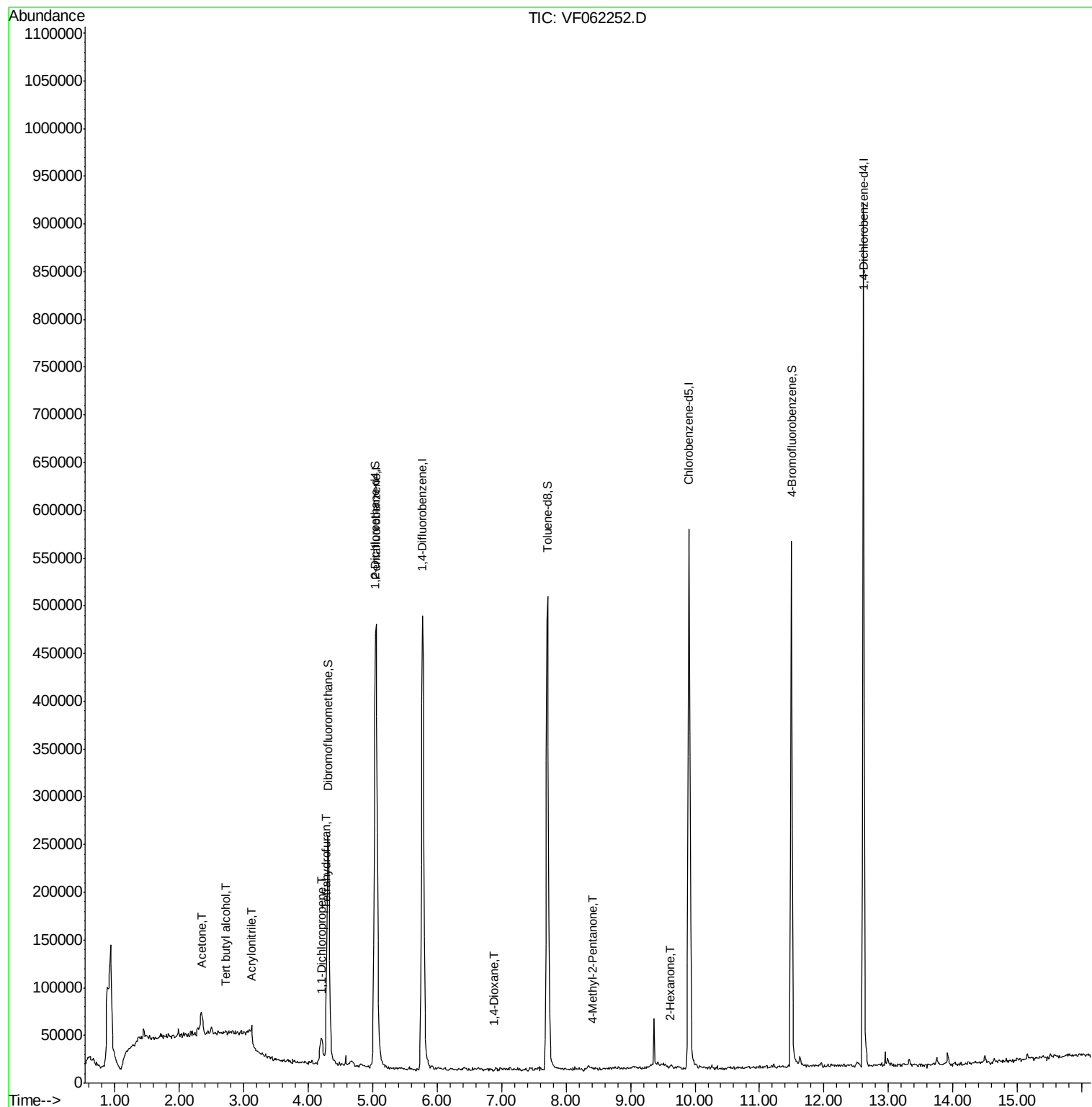
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	413165	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	578751	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	449789	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	262235	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	163465	43.15	ug/l	0.02
Spiked Amount 50.000			Recovery	=	86.30%	
35) Dibromofluoromethane	4.30	113	231858	45.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.60%	
50) Toluene-d8	7.72	98	464911	36.28	ug/l	0.02
Spiked Amount 50.000			Recovery	=	72.56%	
62) 4-Bromofluorobenzene	11.49	95	211225	42.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.70%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	2.72	59	2401	9.117	ug/l #	31
13) Acrolein	2.12	56	747	Below Cal		96
15) Acrylonitrile	3.12	53	1261	1.572	ug/l #	15
16) Acetone	2.34	43	35194	38.865	ug/l #	87
18) Methyl Acetate	2.47	43	6135	Below Cal	#	70
20) Methylene Chloride	2.33	84	6801	Below Cal		95
29) Tetrahydrofuran	4.27	42	1134	1.384	ug/l #	62
36) 1,1-Dichloropropene	4.21	75	53260	7.676	ug/l #	45
49) 1,4-Dioxane	6.88	88	62	2.389	ug/l #	1
51) 4-Methyl-2-Pentanone	8.42	43	4172	1.629	ug/l #	72
59) 2-Hexanone	9.62	43	2110	1.457	ug/l	84
74) N-amyl acetate	11.45	43	1394	Below Cal	#	48
89) n-Butylbenzene	12.90	91	1644	Below Cal		74

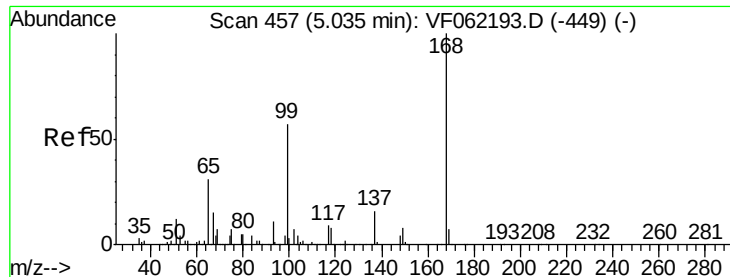
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 19 23:52:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

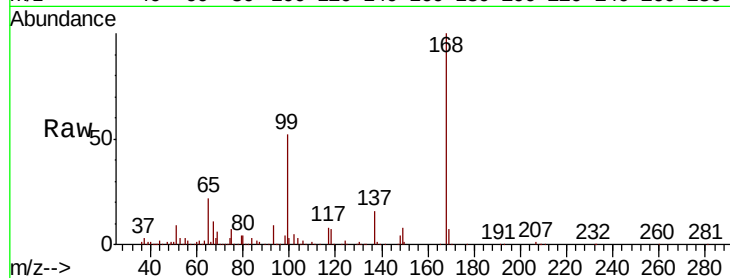
SOIL-CUTTINGS

Tot Ion:168 Resp: 413165

Ion Ratio Lower Upper

168 100

99 51.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

150000

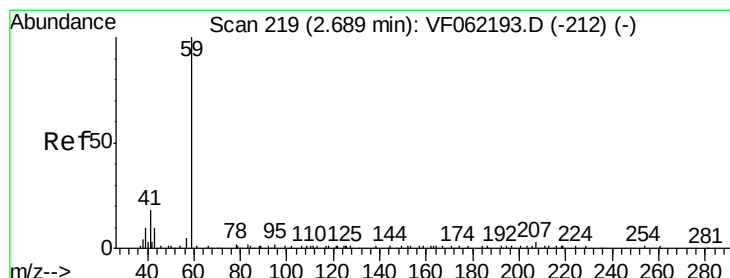
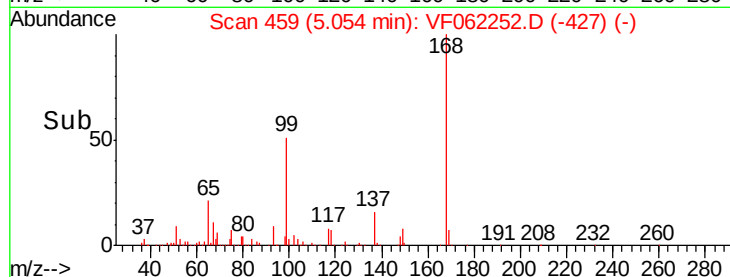
100000

50000

0

Time-->

5.00 5.20



#11

Tert butyl alcohol

Concen: 9.117 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.03 min

Lab File: VF062252.D

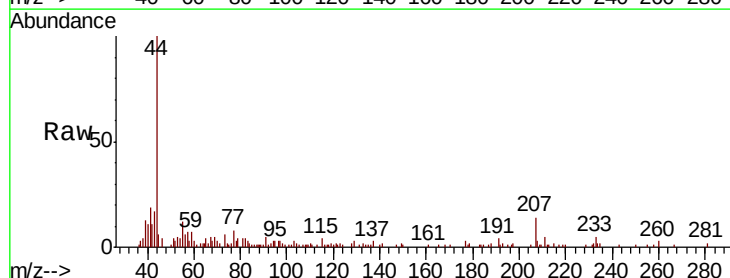
Acq: 22 Apr 2019 18:43

Tgt Ion: 59 Resp: 2401

Ion Ratio Lower Upper

59 100

57 38.3 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.72

1000

800

600

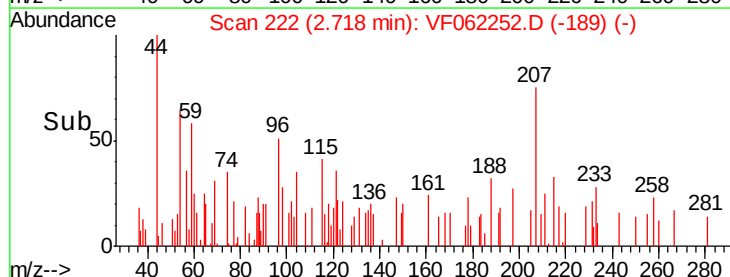
400

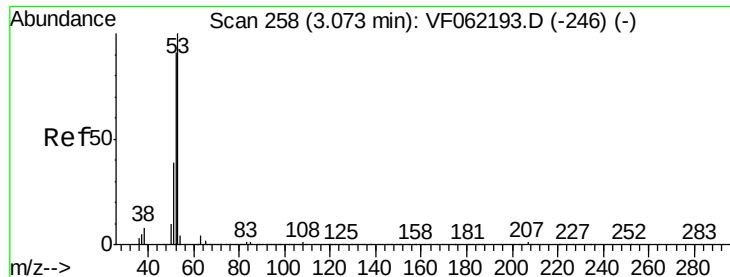
200

0

Time-->

2.60 2.70 2.80





#15

Acrylonitrile

Concen: 1.572 ug/l

RT: 3.12 min Scan# 263

Delta R.T. 0.05 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

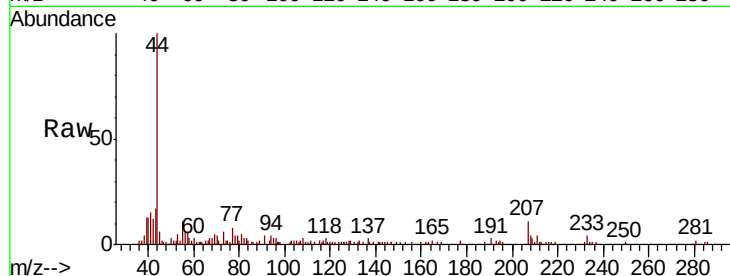
Tot Ion: 53 Resp: 1261

Ion Ratio Lower Upper

53 100

52 0.0 69.5 104.3#

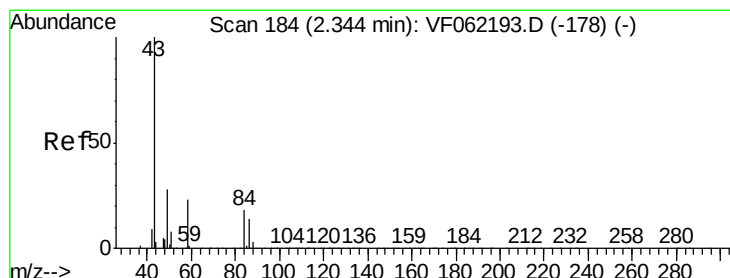
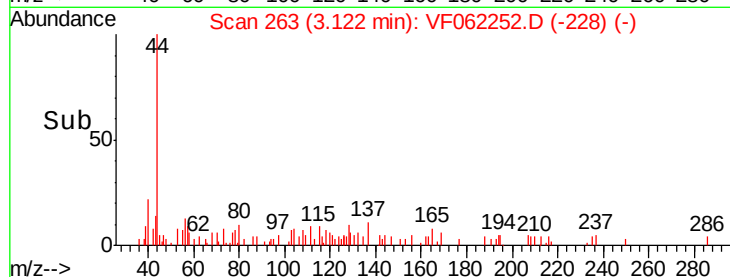
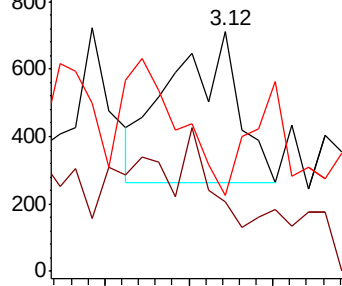
51 0.0 31.8 47.8#



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



#16

Acetone

Concen: 38.865 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062252.D

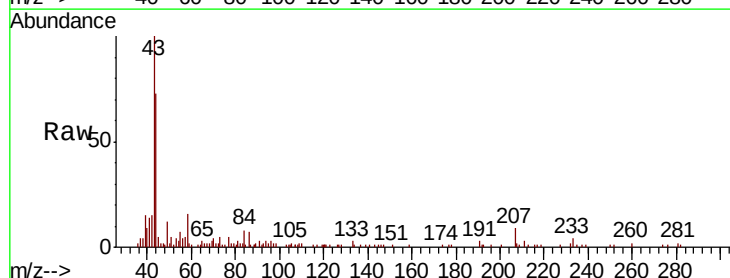
Acq: 22 Apr 2019 18:43

Tgt Ion: 43 Resp: 35194

Ion Ratio Lower Upper

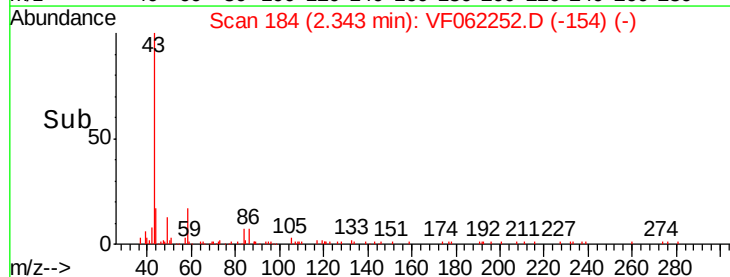
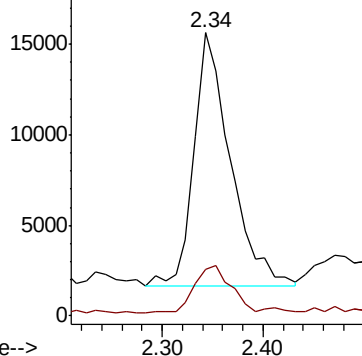
43 100

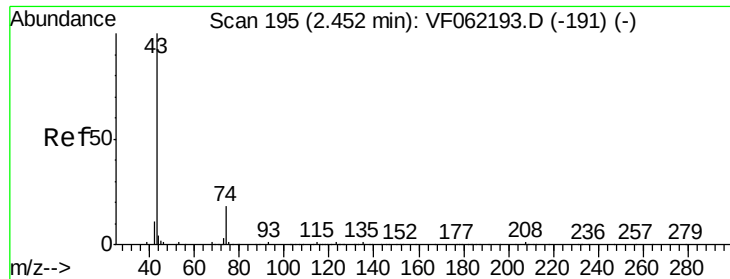
58 17.1 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

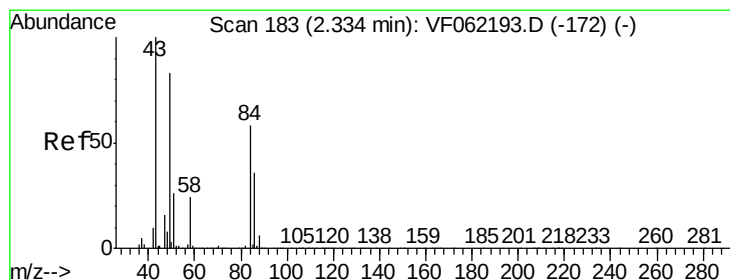
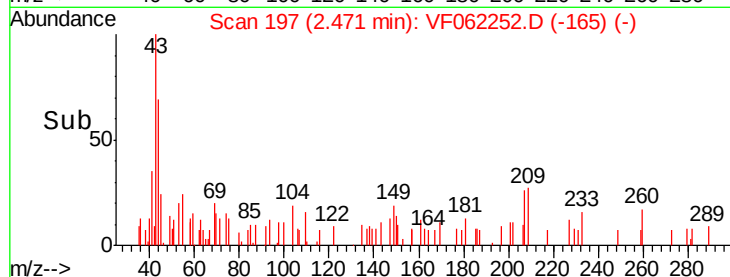
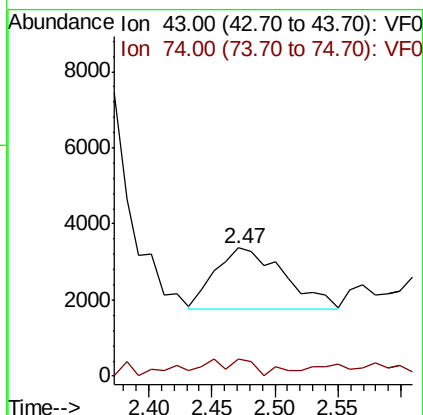
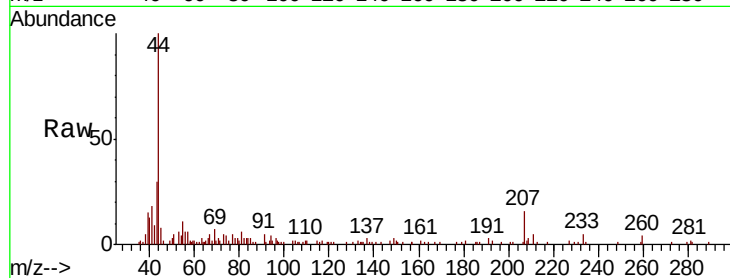




#18
Methyl Acetate
Concen: Below Cal
RT: 2.47 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

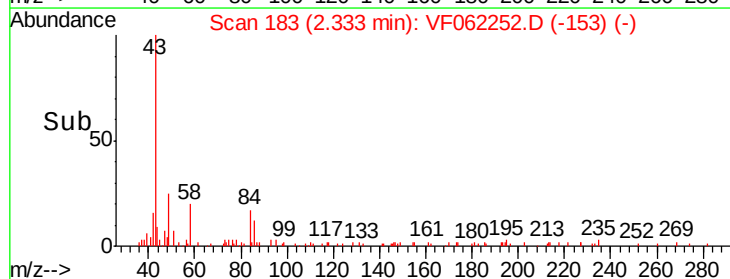
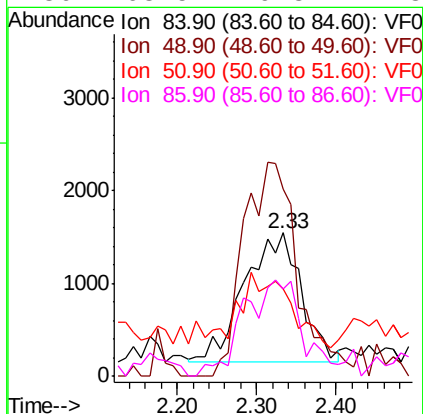
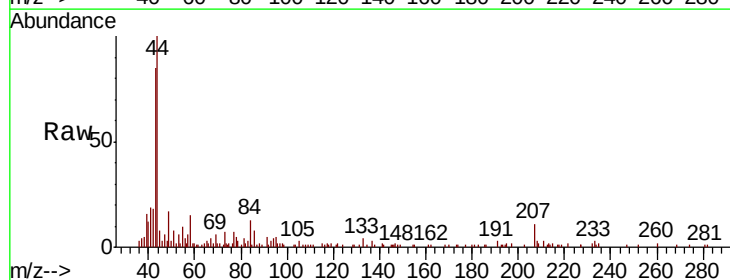
Instrument :
MSVOA_F
ClientSampleId :
SOIL-CUTTINGS

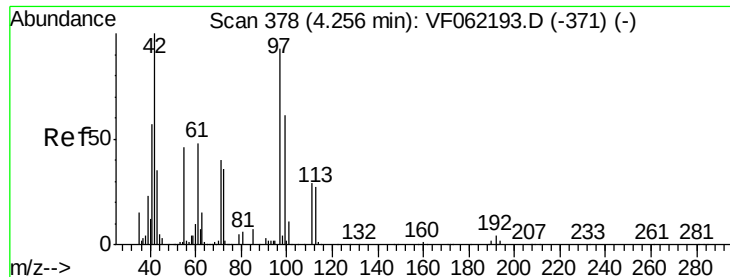
Tot Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
74 5.0 14.5 21.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.33 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

Tgt Ion: 84 Resp: 6801
Ion Ratio Lower Upper
84 100
49 147.7 114.0 171.0
51 43.1 37.0 55.4
86 68.5 49.8 74.8





#29

Tetrahydrofuran

Concen: 1.384 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

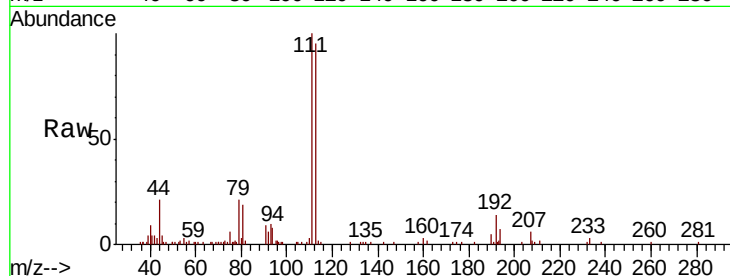
Tot Ion: 42 Resp: 1134

Ion Ratio Lower Upper

42 100

72 27.6 28.6 43.0#

71 0.0 29.2 43.8#



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

1000

800

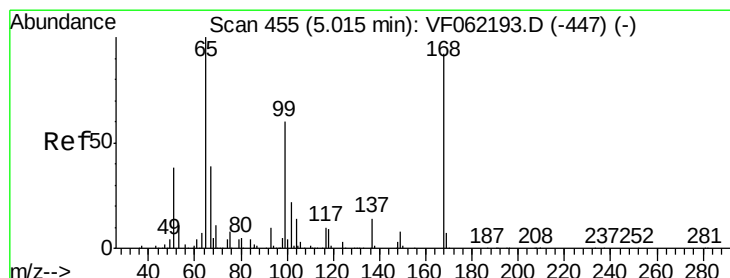
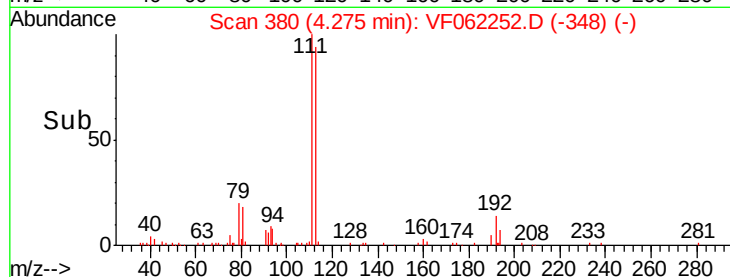
600

400

200

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062252.D

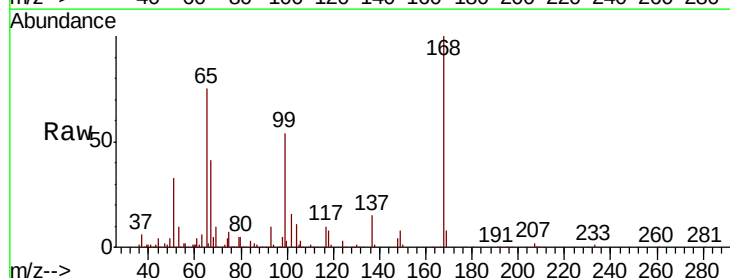
Acq: 22 Apr 2019 18:43

Tgt Ion: 65 Resp: 163465

Ion Ratio Lower Upper

65 100

67 51.0 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

60000

50000

40000

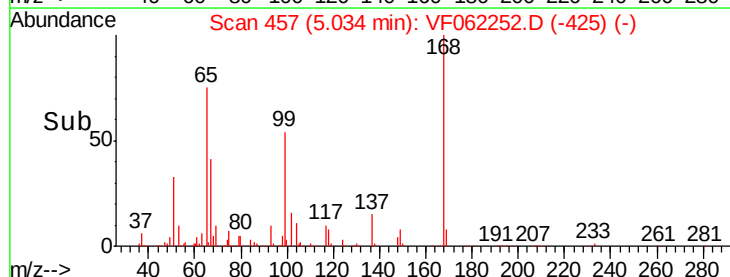
30000

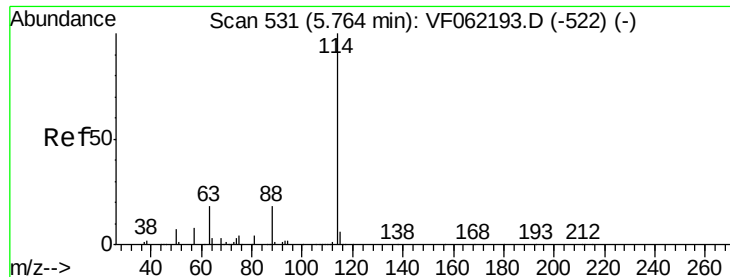
20000

10000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

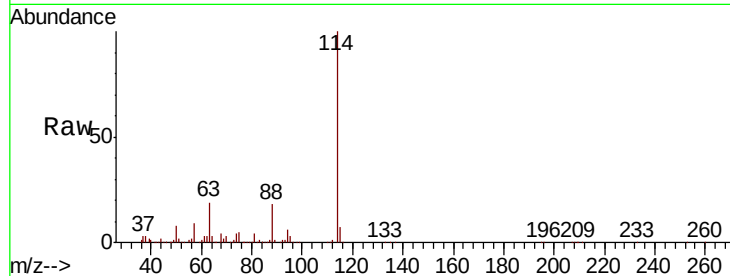
Tot Ion:114 Resp: 578751

Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.6

88 18.2 0.0 35.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

250000

200000

150000

100000

50000

0

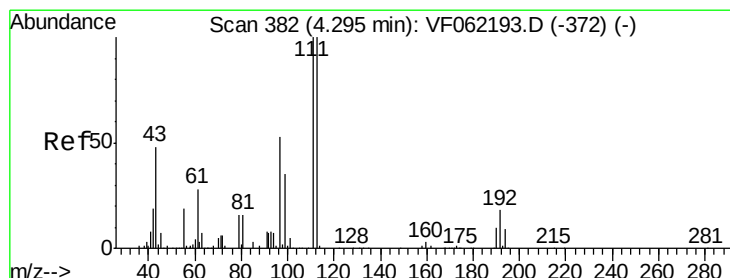
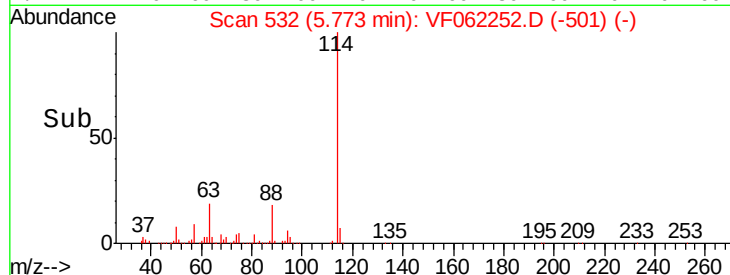
5.60

5.77

5.80

6.00

Time-->



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

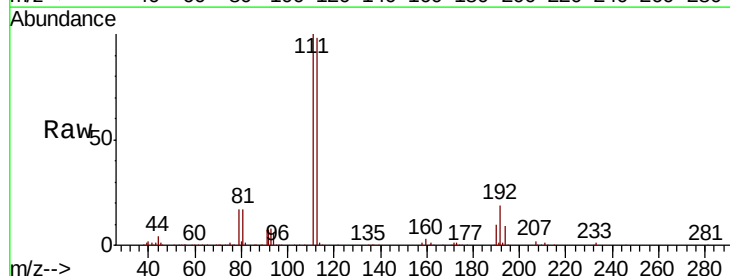
Tgt Ion:113 Resp: 231858

Ion Ratio Lower Upper

113 100

111 103.9 81.1 121.7

192 20.8 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

100000

80000

60000

40000

20000

0

4.10

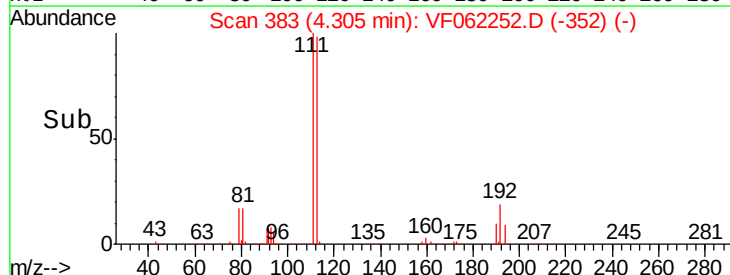
4.20

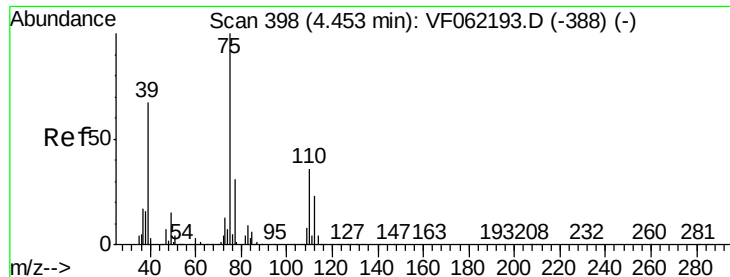
4.30

4.40

4.50

Time-->





#36

1,1-Dichloropropene

Concen: 7.676 ug/l

RT: 4.21 min Scan# 373

Delta R.T. -0.25 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

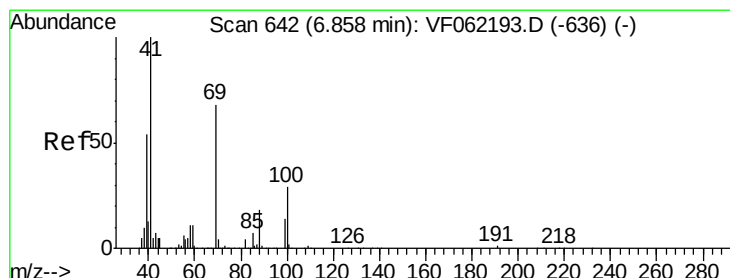
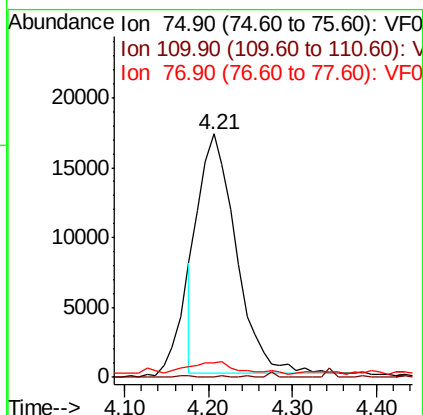
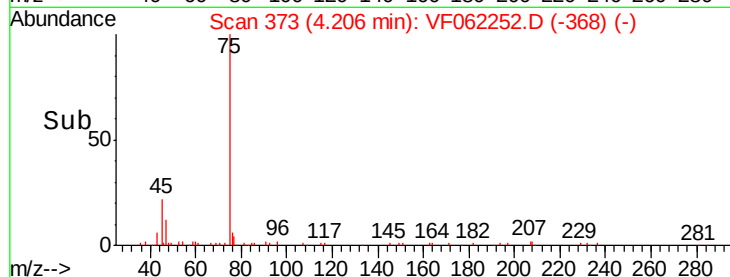
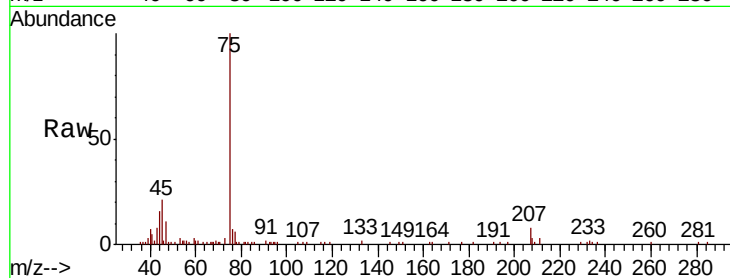
Tot Ion: 75 Resp: 53260

Ion Ratio Lower Upper

75 100

110 0.1 18.4 55.2#

77 5.3 25.4 38.2#



#49

1,4-Dioxane

Concen: 2.389 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

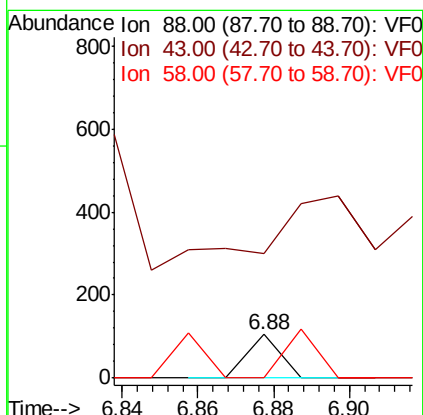
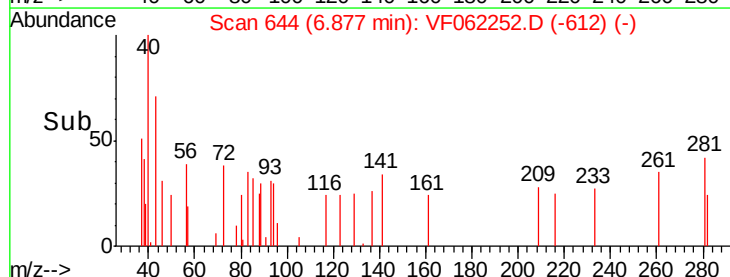
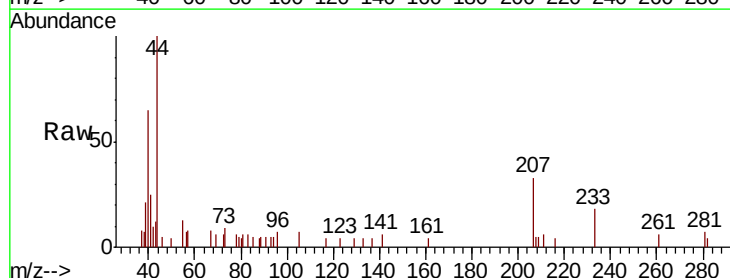
Tgt Ion: 88 Resp: 62

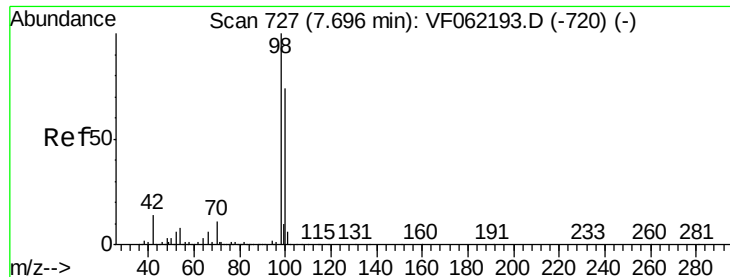
Ion Ratio Lower Upper

88 100

43 253.2 36.9 55.3#

58 112.9 56.8 85.2#

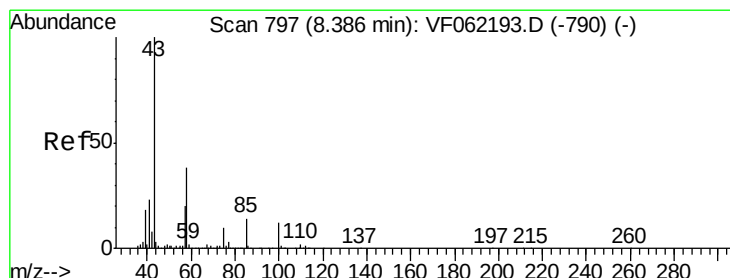
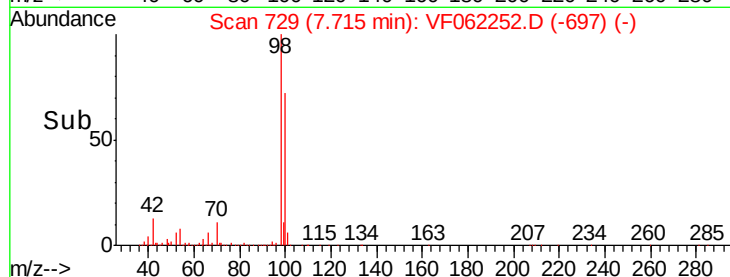
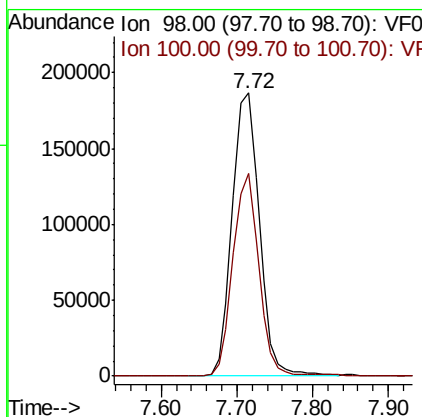
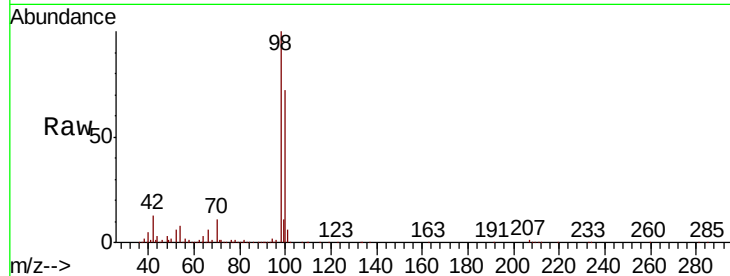




#50
Toluene-d8
Concen: 2.389 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

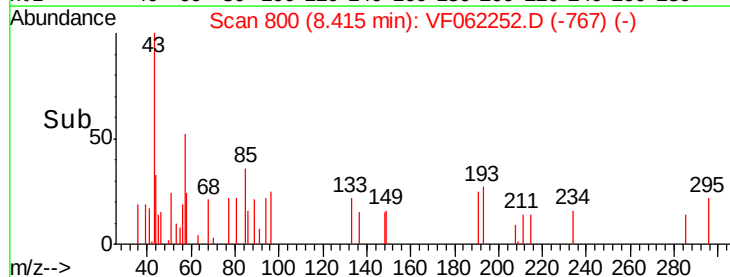
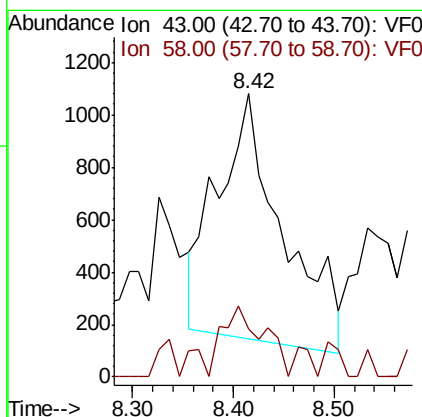
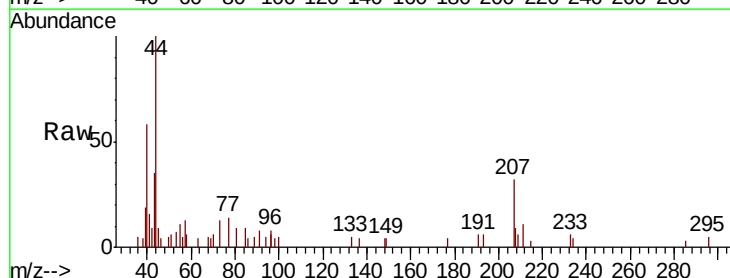
Instrument :
MSVOA_F
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SOIL-CUTTINGS

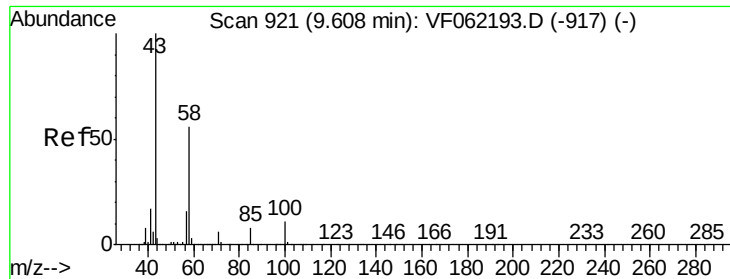
Tot Ion: 98 Resp: 464911
Ion Ratio Lower Upper
98 100
100 68.5 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 1.629 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.03 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

Tgt Ion: 43 Resp: 4172
Ion Ratio Lower Upper
43 100
58 20.1 29.3 43.9#

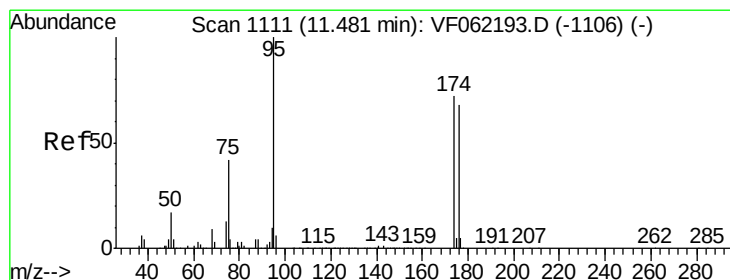
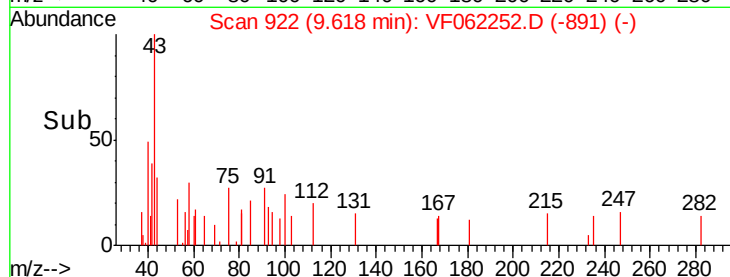
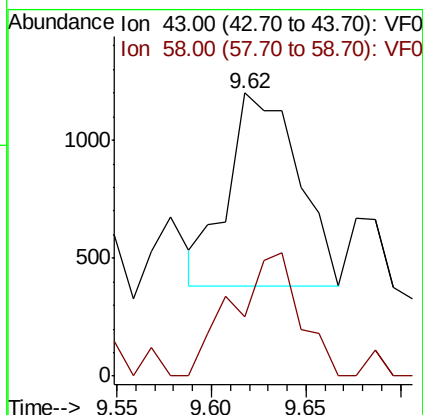
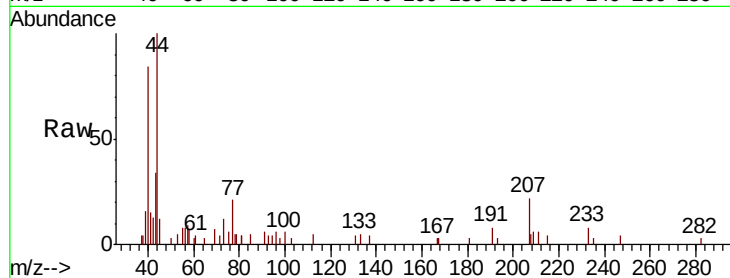




#59
2-Hexanone
Concen: 1.457 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

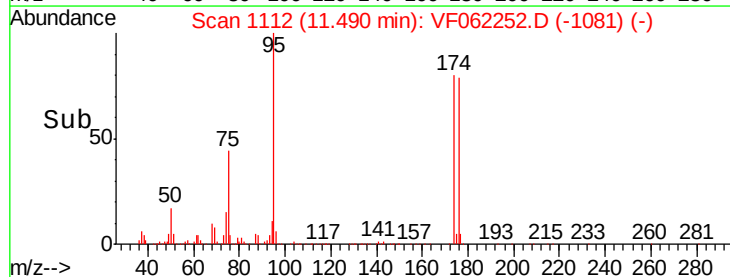
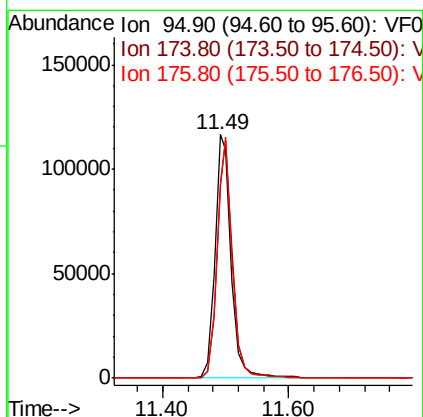
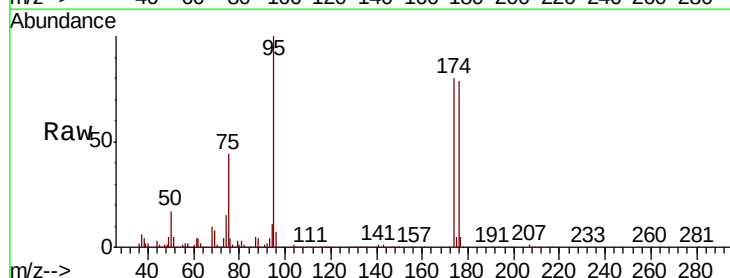
Instrument :
MSVOA_F
ClientSampleId :
SOIL-CUTTINGS

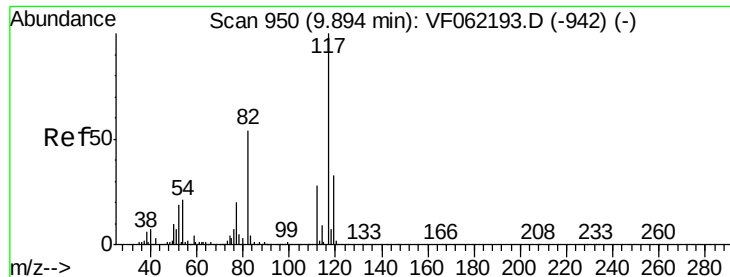
Tot Ion: 43 Resp: 2110
Ion Ratio Lower Upper
43 100
58 60.6 24.6 74.0



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VF062252.D
Acq: 22 Apr 2019 18:43

Tgt Ion: 95 Resp: 211225
Ion Ratio Lower Upper
95 100
174 92.9 0.0 159.4
176 91.9 0.0 155.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

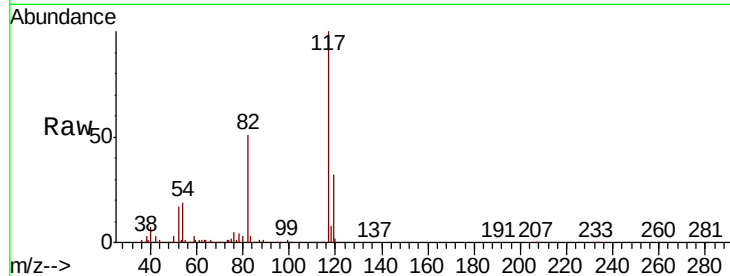
Tot Ion:117 Resp: 449789

Ion Ratio Lower Upper

117 100

82 51.1 43.2 64.8

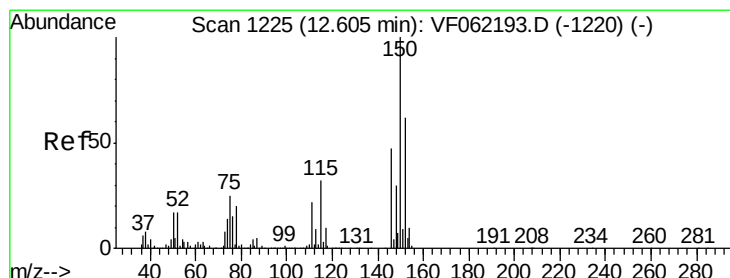
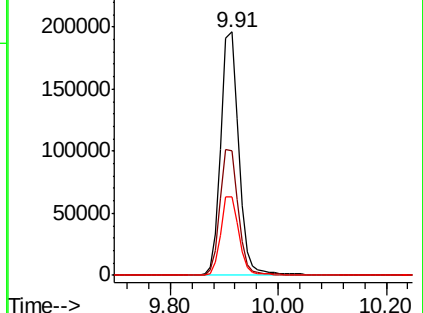
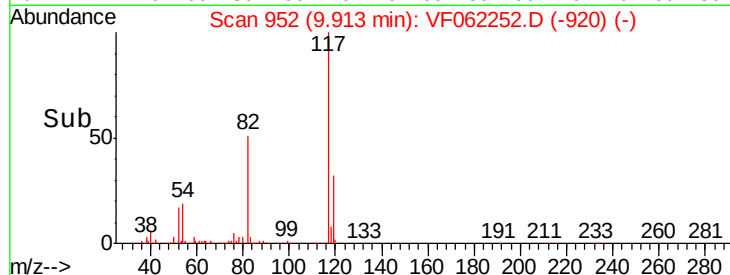
119 32.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

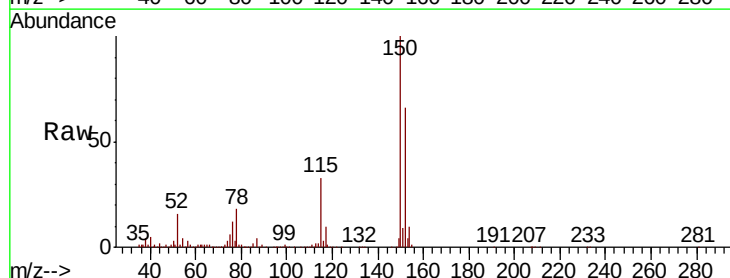
Tgt Ion:152 Resp: 262235

Ion Ratio Lower Upper

152 100

115 52.1 27.8 83.3

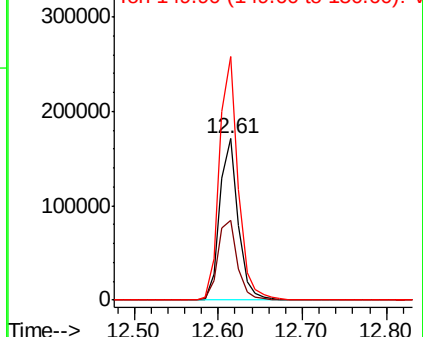
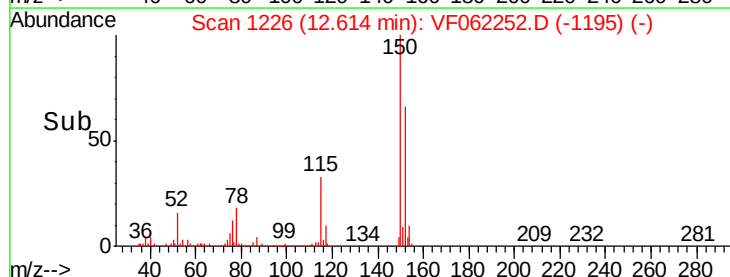
150 152.0 0.0 341.8

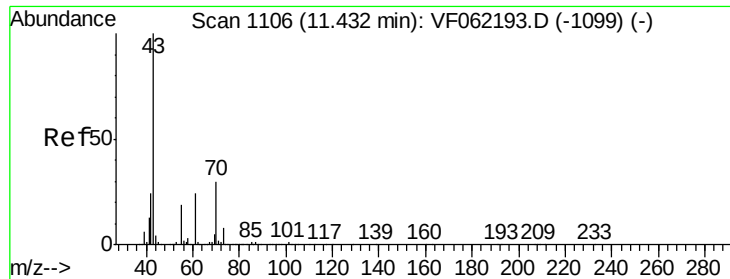


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

Instrument :

MSVOA_F

ClientSampleId :

SOIL-CUTTINGS

Tot Ion: 43 Resp: 1394

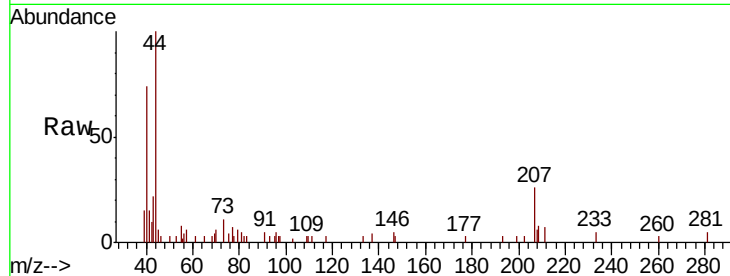
Ion Ratio Lower Upper

43 100

70 0.0 27.0 40.4#

55 0.0 15.7 23.5#

61 0.0 20.8 31.2#



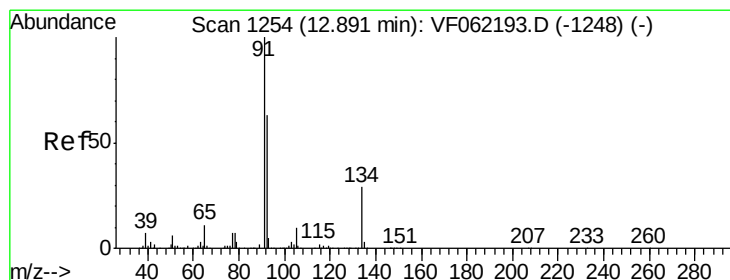
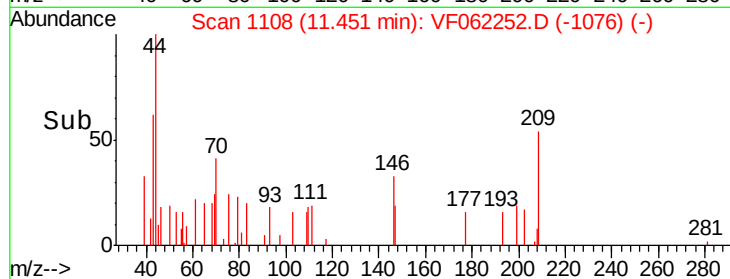
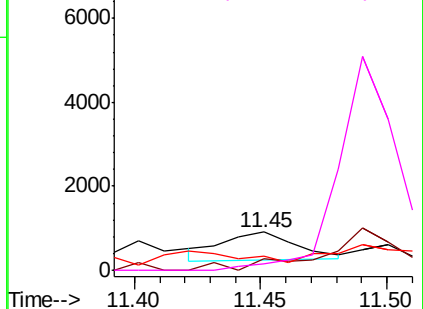
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062252.D

Acq: 22 Apr 2019 18:43

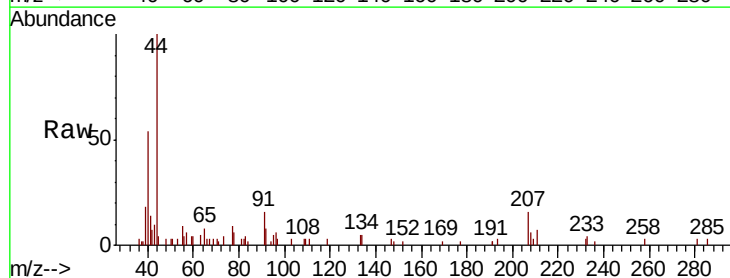
Tgt Ion: 91 Resp: 1644

Ion Ratio Lower Upper

91 100

92 38.6 31.2 93.6

134 19.1 13.1 39.1



Abundance

Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

