

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059576.D
 Acq On : 20 Jul 2018 1:03
 Operator : VA/AP
 Sample : J4057-09
 Misc : 4.02g/5mL/MSVOA F/SOIL
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-3

Quant Time: Jul 20 07:21:09 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	5.03	168	176466	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	263242	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	191262	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	64938	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	130317	47.48	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	94.96%	
35) Dibromofluoromethane	4.28	113	121241	53.18	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	106.36%	
50) Toluene-d8	7.71	98	171157	29.80	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	59.60%	
62) 4-Bromofluorobenzene	11.51	95	81309	26.99	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	53.98%	

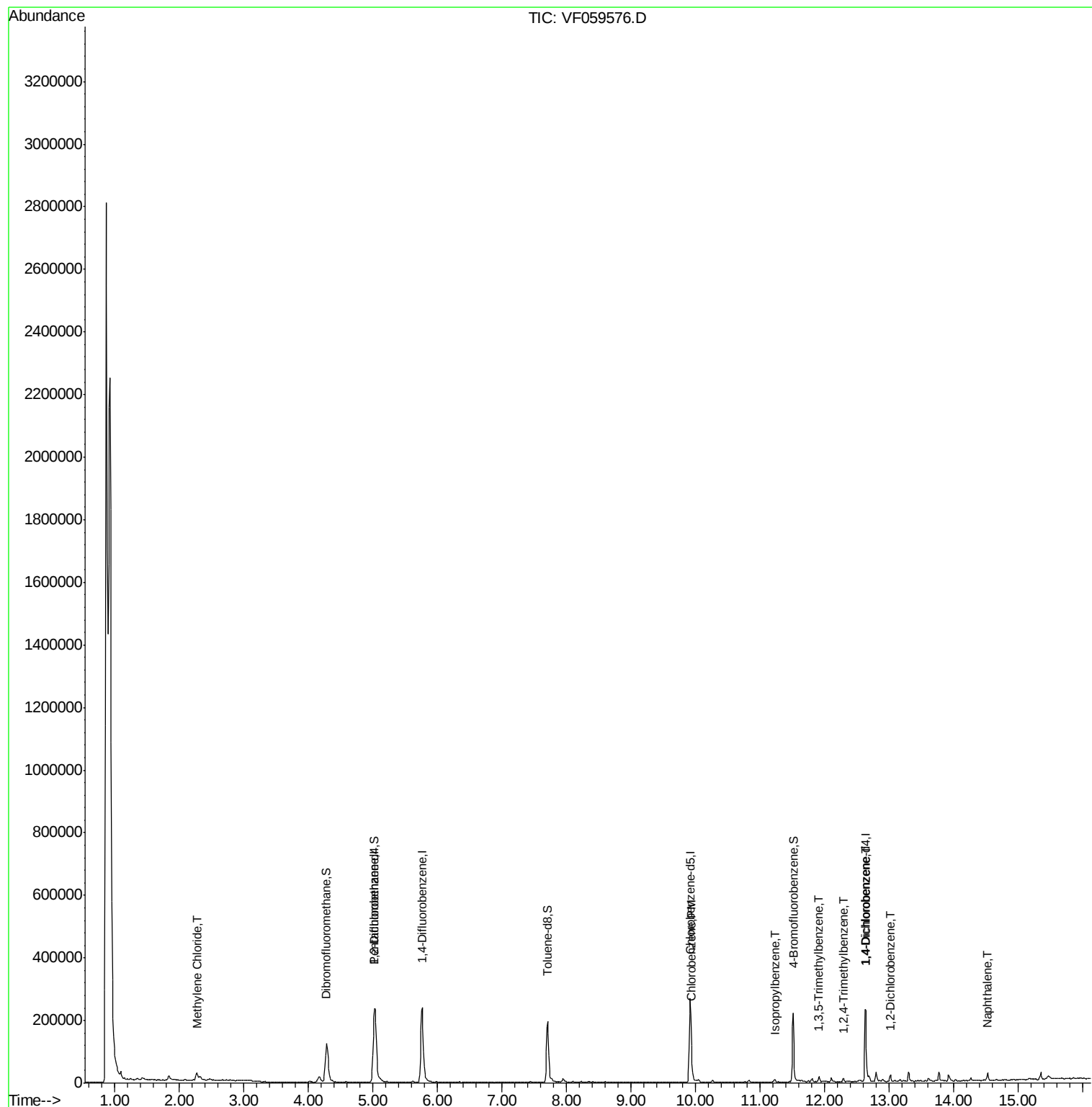
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	2.26	84	13142	6.64	ug/l	97
65) Chlorobenzene	9.94	112	10271	2.86	ug/l	99
73) Isopropylbenzene	11.23	105	4364	1.06	ug/l	90
80) 1,3,5-Trimethylbenzene	11.91	105	10049	2.93	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	5858	1.66	ug/l	90
88) 1,4-Dichlorobenzene	12.64	146	7386	3.80	ug/l	91
91) 1,2-Dichlorobenzene	13.02	146	7681	4.08	ug/l	95
95) Naphthalene	14.53	128	16562	6.96	ug/l	98

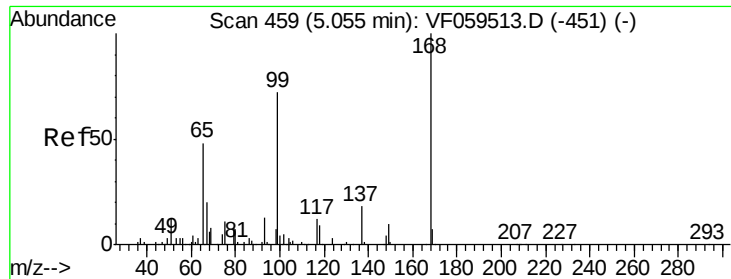
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

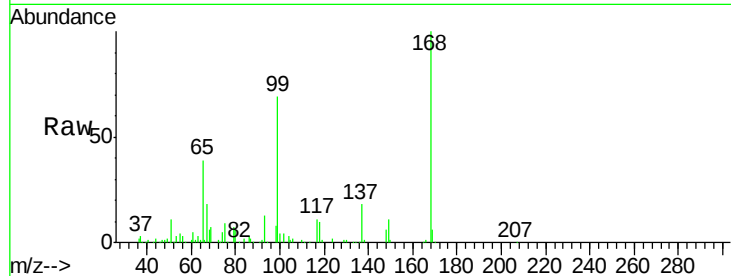
LS-SOIL-3

Tot Ion:168 Resp: 176466

Ion Ratio Lower Upper

168 100

99 69.5 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

50000

40000

30000

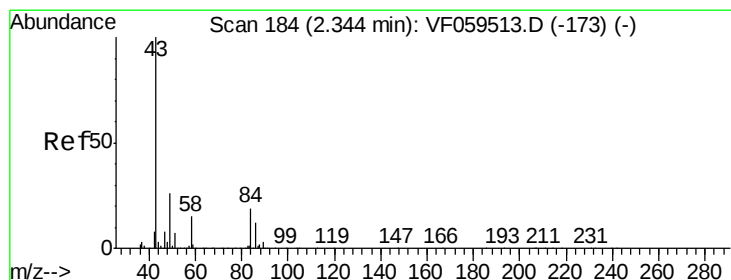
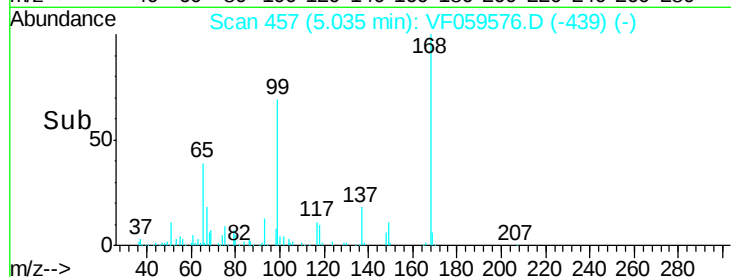
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#20

Methylene Chloride

Concen: 6.64 ug/l

RT: 2.26 min Scan# 176

Delta R.T. -0.08 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Tgt Ion: 84 Resp: 13142

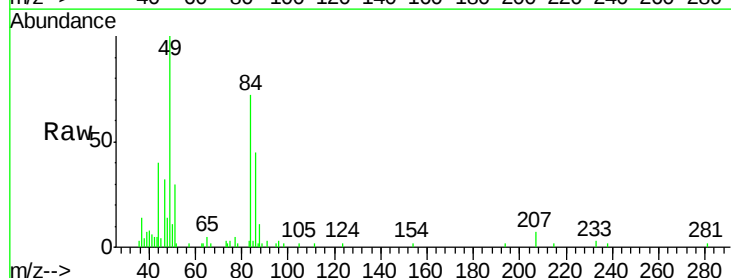
Ion Ratio Lower Upper

84 100

49 138.4 109.4 164.2

51 41.0 30.5 45.7

86 62.8 47.6 71.4



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

10000

8000

6000

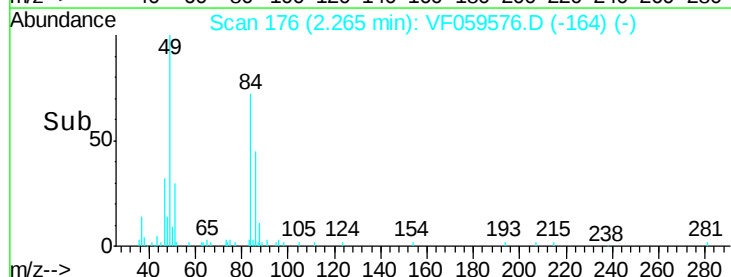
4000

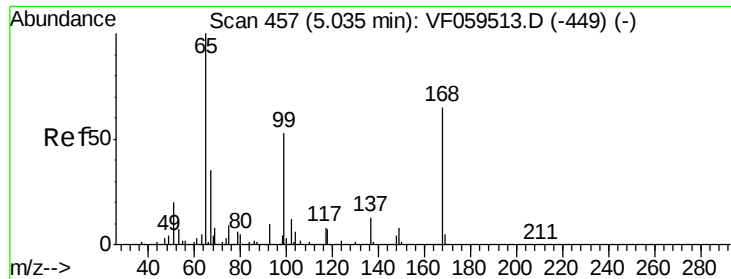
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0

Time-->

2.20 2.30 2.40

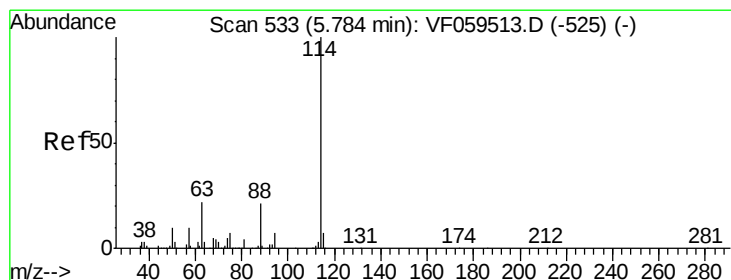
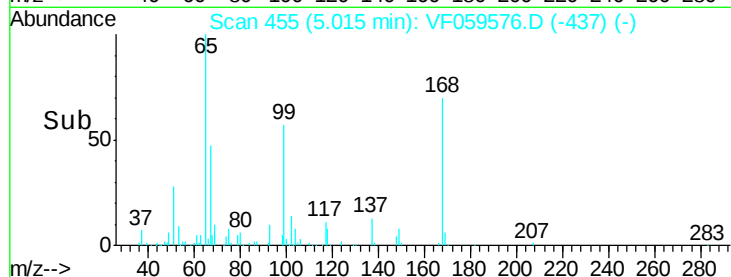
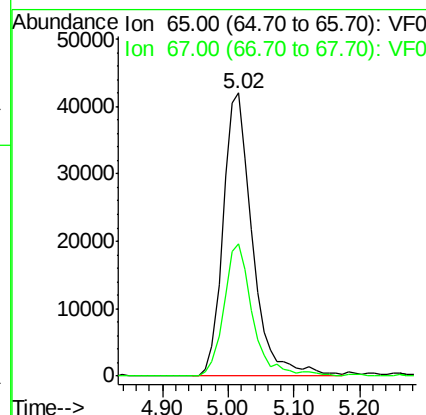
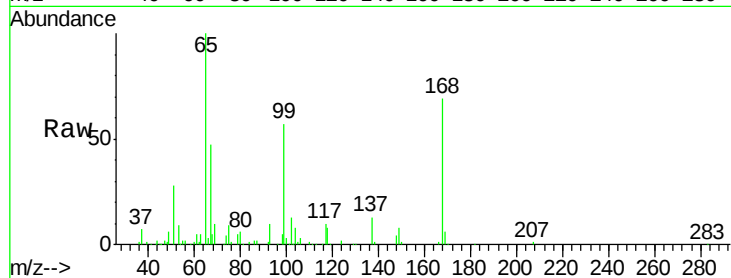




#33
 1,2-Dichloroethane-d4
 Concen: 47.48 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.02 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

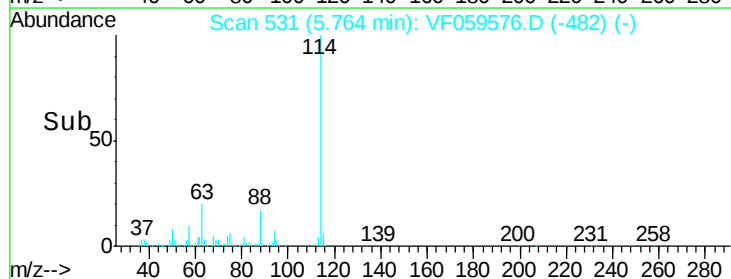
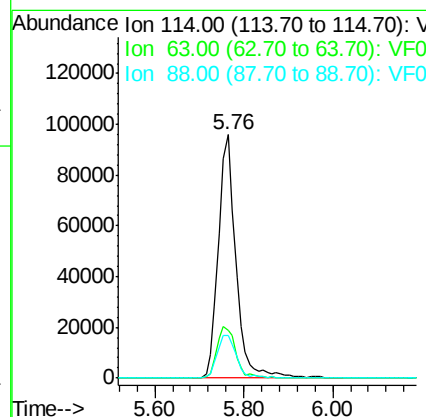
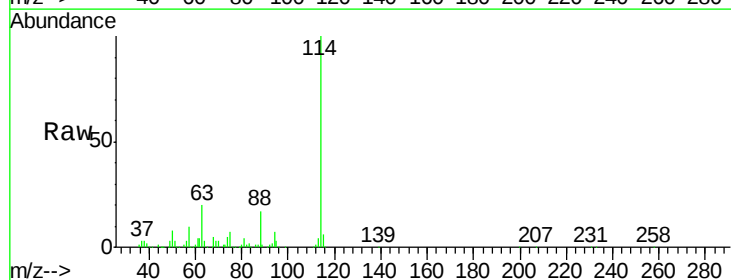
Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-3

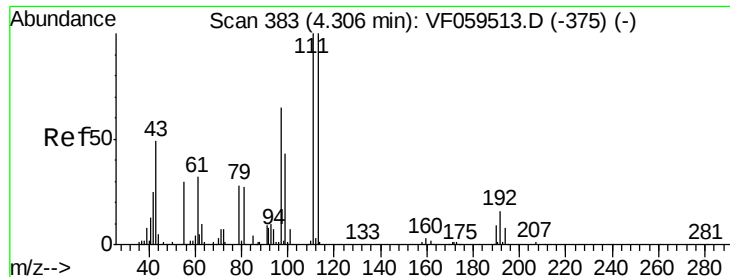
Tot Ion: 65 Resp: 130317
 Ion Ratio Lower Upper
 65 100
 67 46.8 0.0 91.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

Tgt Ion: 114 Resp: 263242
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 44.8
 88 17.4 0.0 42.6

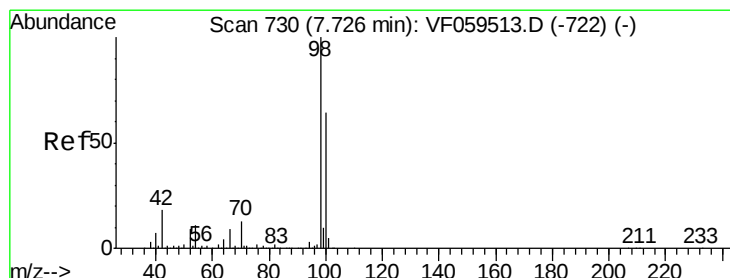
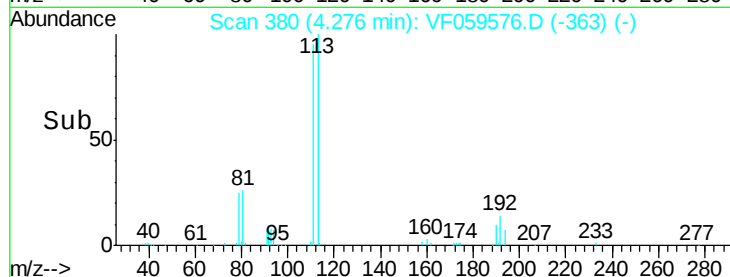
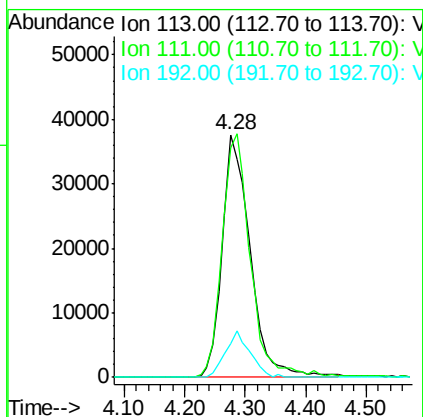
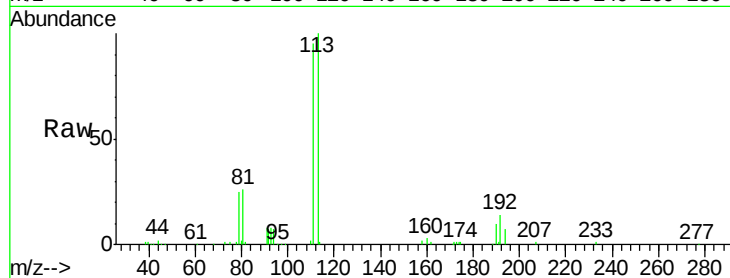




#35
 Dibromofluoromethane
 Concen: 53.18 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.03 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

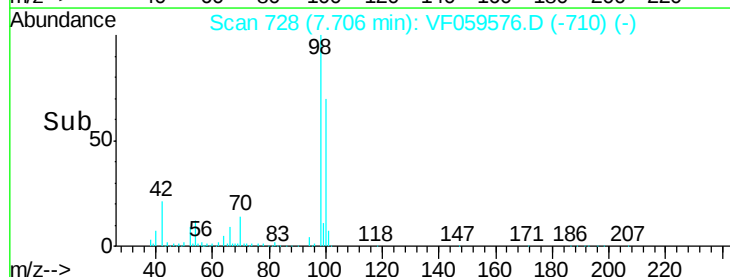
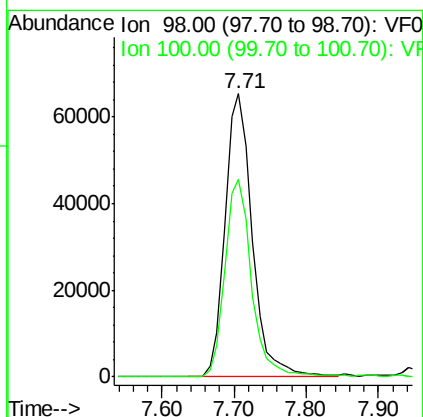
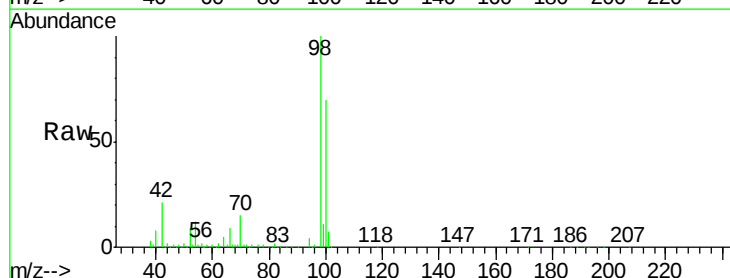
Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-3

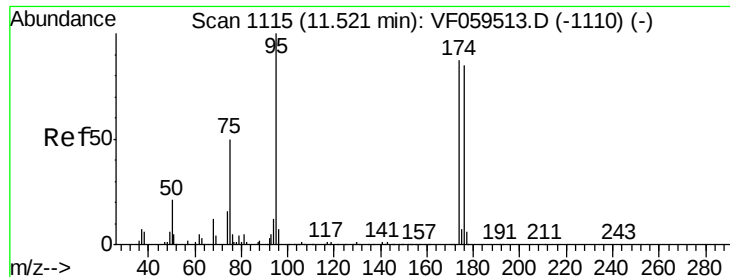
Tot Ion	Ratio	Lower	Upper
113	100		
111	94.8	80.3	120.5
192	13.9	13.1	19.7



#50
 Toluene-d8
 Concen: 29.80 ug/l
 RT: 7.71 min Scan# 728
 Delta R.T. -0.02 min
 Lab File: VF059576.D
 Acq: 20 Jul 2018 1:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.6	50.9	76.3





#62

4-Bromofluorobenzene

Concen: 26.99 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-3

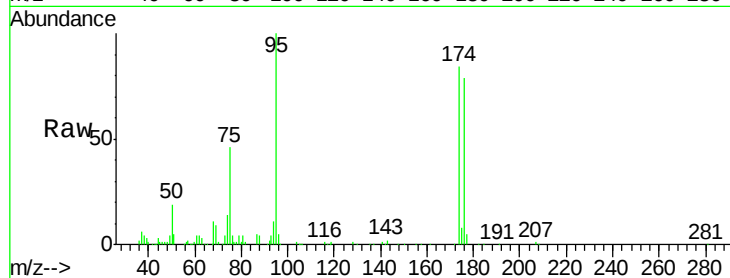
Tot Ion: 95 Resp: 81309

Ion Ratio Lower Upper

95 100

174 84.0 0.0 174.4

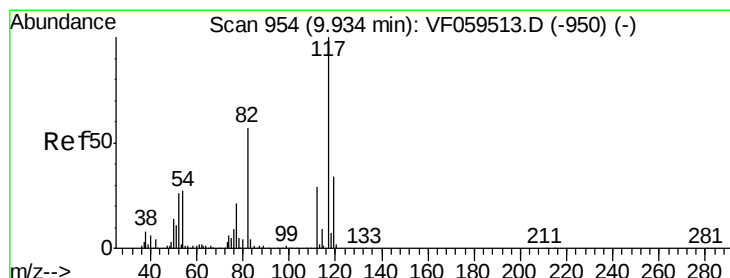
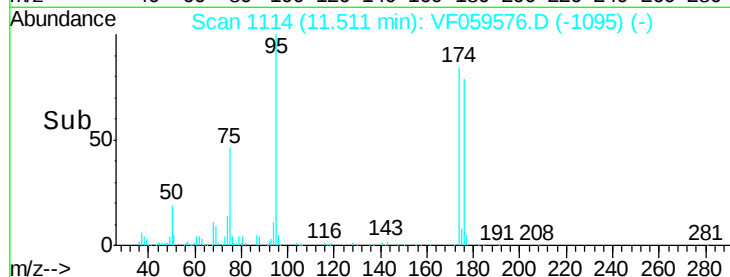
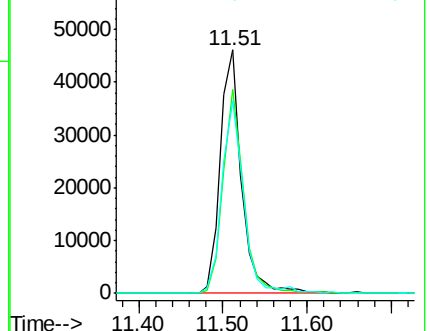
176 78.9 0.0 169.4



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: 9.91 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

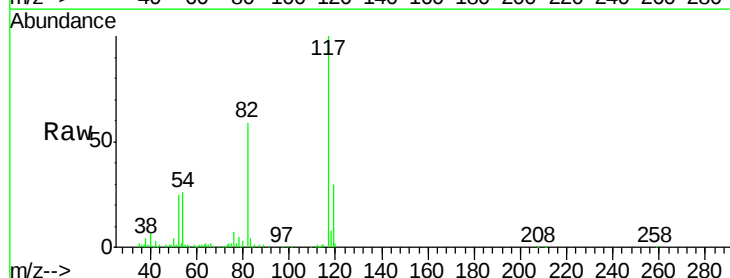
Tgt Ion: 117 Resp: 191262

Ion Ratio Lower Upper

117 100

82 58.8 46.1 69.1

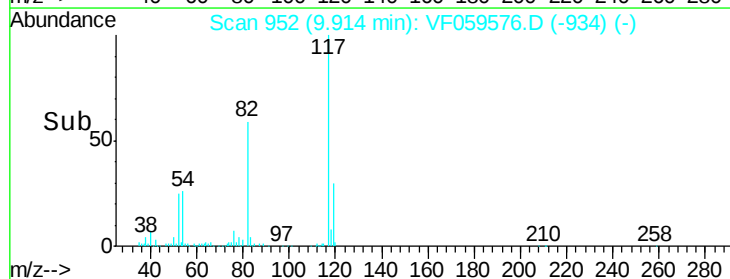
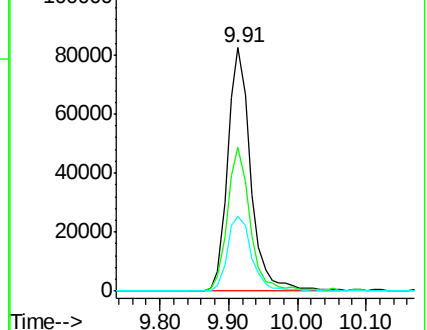
119 30.5 27.2 40.8

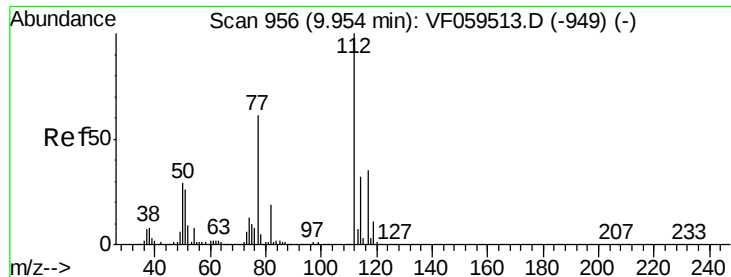


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

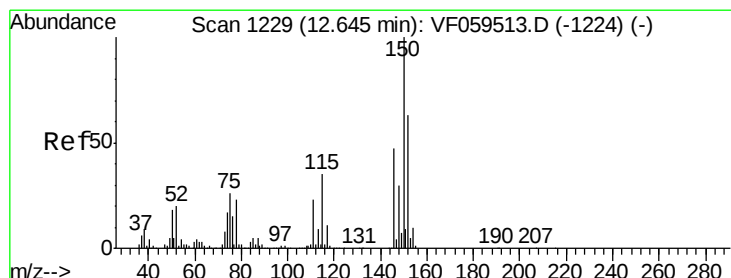
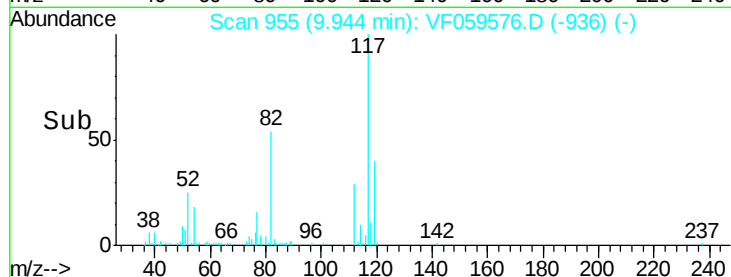
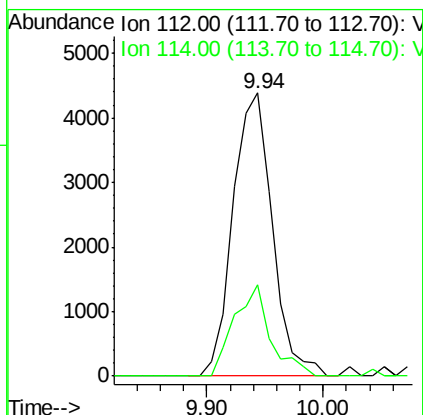
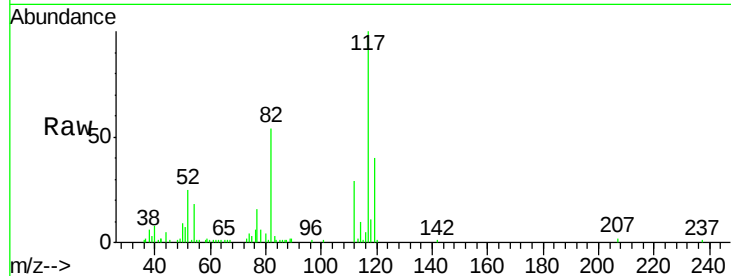




#65
Chlorobenzene
Concen: 2.86 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.01 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

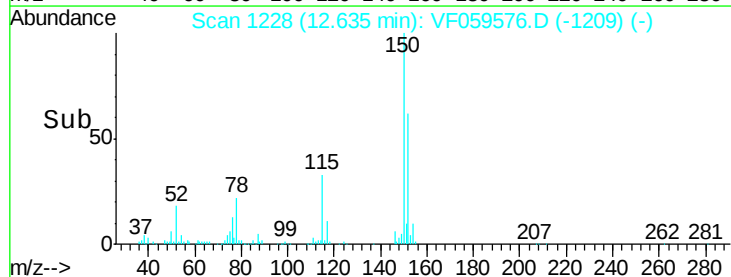
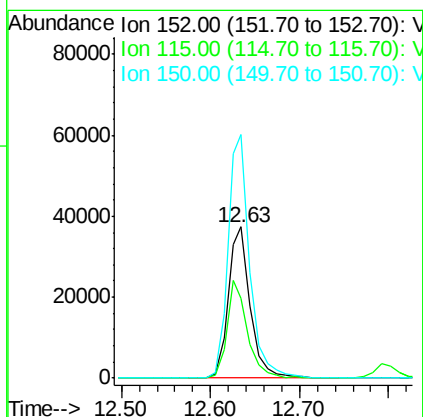
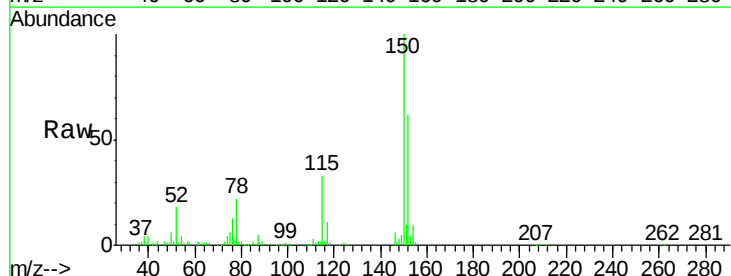
Instrument :
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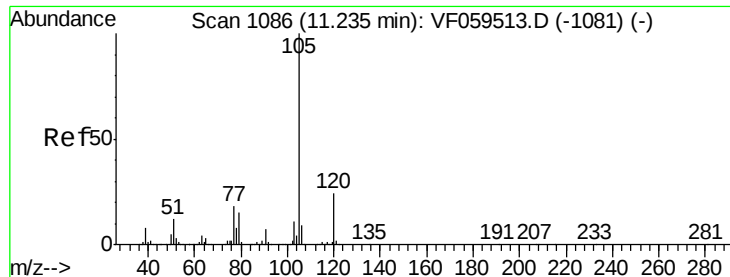
Tot Ion:112 Resp: 10271
Ion Ratio Lower Upper
112 100
114 32.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Tgt Ion:152 Resp: 64938
Ion Ratio Lower Upper
152 100
115 52.7 27.8 83.3
150 161.2 0.0 318.4





#73

Isopropylbenzene

Concen: 1.06 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

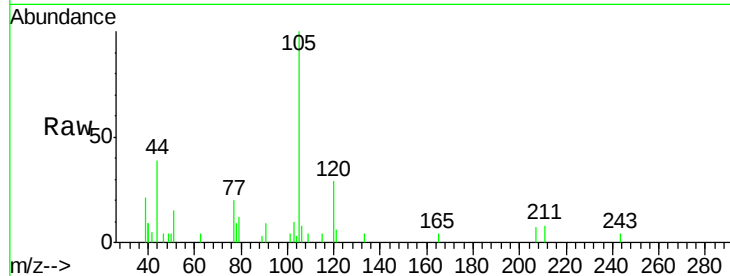
LS-SOIL-3

Tot Ion:105 Resp: 4364

Ion Ratio Lower Upper

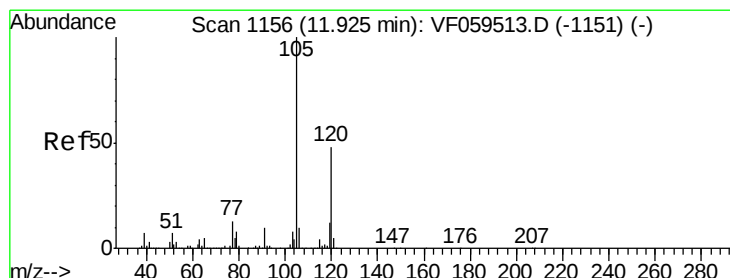
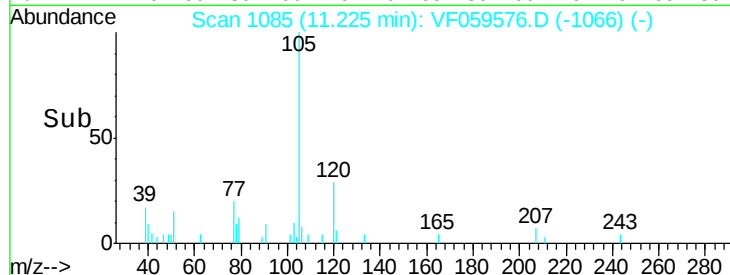
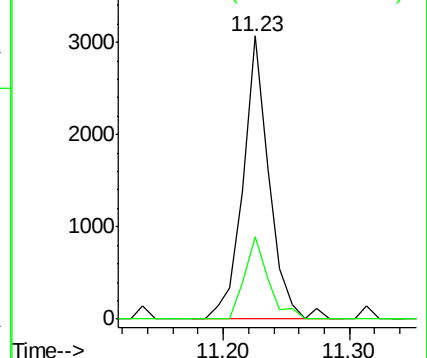
105 100

120 29.0 12.0 36.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.93 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.02 min

Lab File: VF059576.D

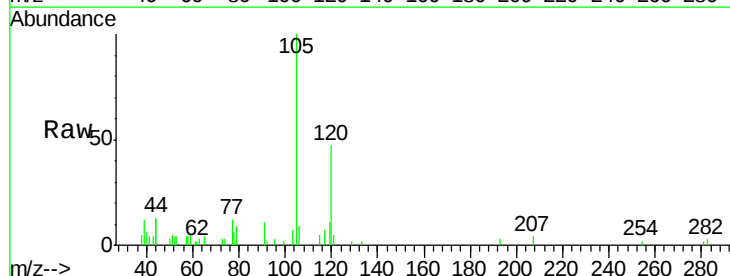
Acq: 20 Jul 2018 1:03

Tgt Ion:105 Resp: 10049

Ion Ratio Lower Upper

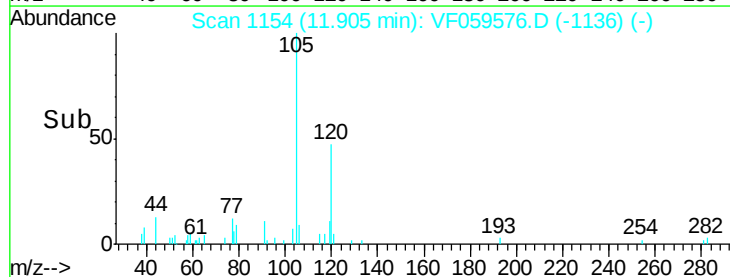
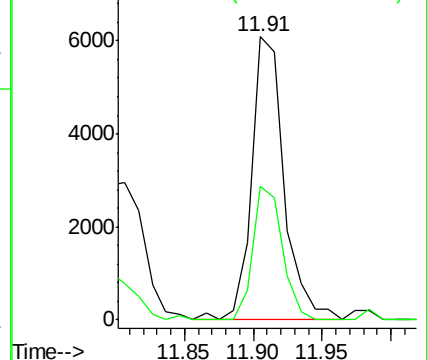
105 100

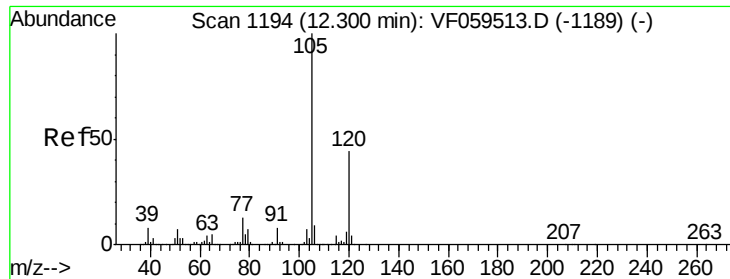
120 47.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.66 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. -0.02 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

Instrument :

MSVOA_F

ClientSampleId :

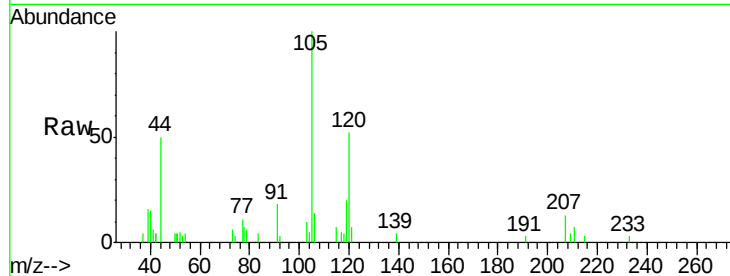
LS-SOIL-3

Tot Ion:105 Resp: 5858

Ion Ratio Lower Upper

105 100

120 51.6 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

3000

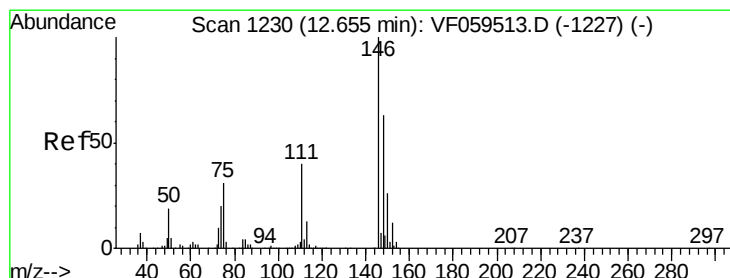
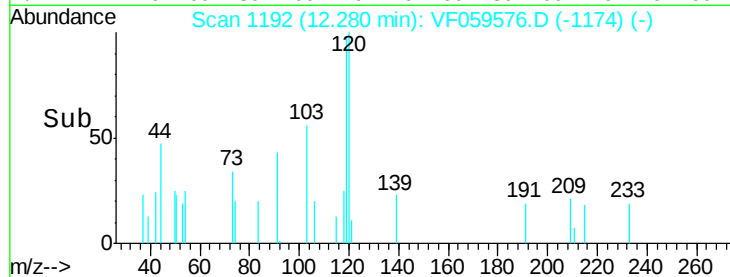
2000

1000

0

12.25 12.30 12.35

Time-->



#88

1,4-Dichlorobenzene

Concen: 3.80 ug/l

RT: 12.64 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VF059576.D

Acq: 20 Jul 2018 1:03

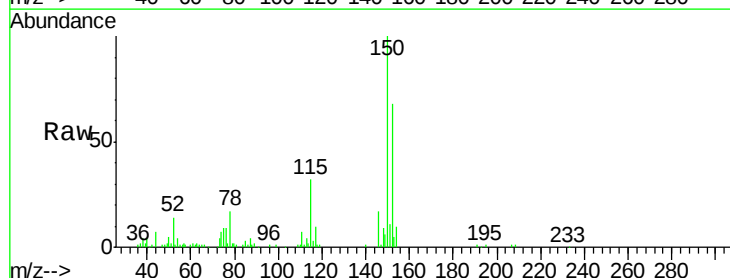
Tgt Ion:146 Resp: 7386

Ion Ratio Lower Upper

146 100

111 38.2 20.0 59.9

148 52.3 31.5 94.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

6000

5000

4000

3000

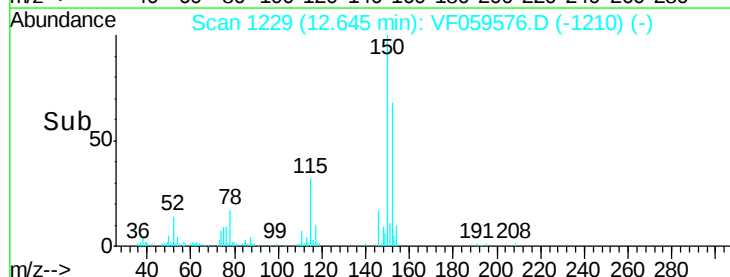
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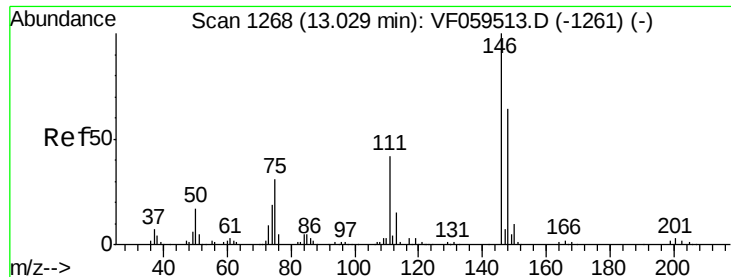
1000

0

12.55 12.60 12.65 12.70

Time-->

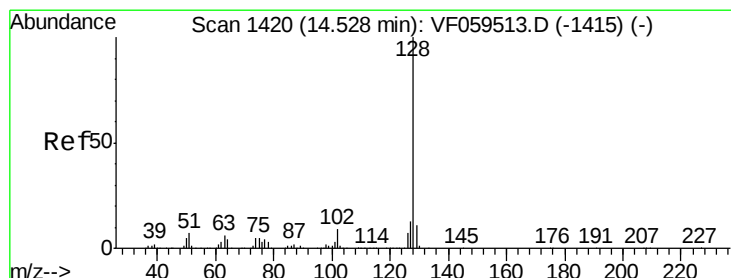
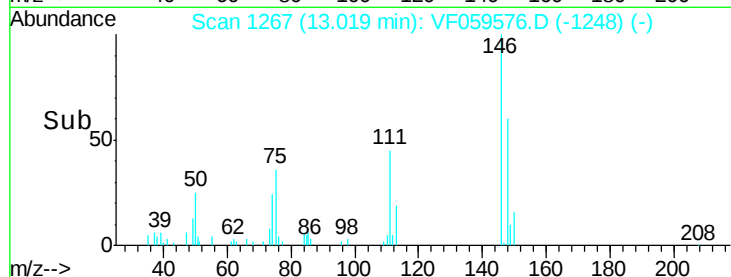
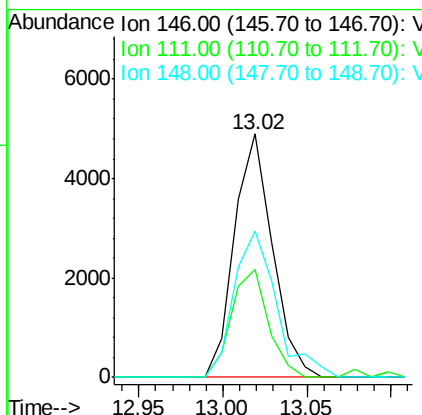
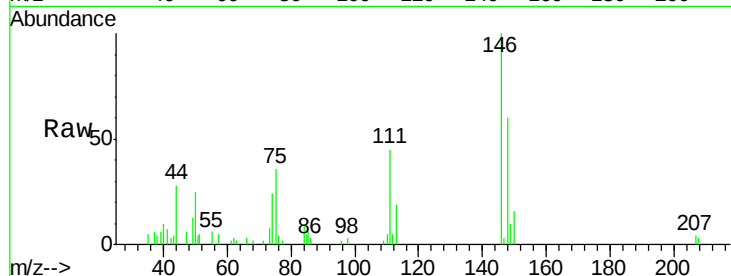




#91
1,2-Dichlorobenzene
Concen: 4.08 ug/l
RT: 13.02 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-3

Tot Ion:146 Resp: 7681
Ion Ratio Lower Upper
146 100
111 44.6 21.1 63.1
148 59.9 32.3 96.8



#95
Naphthalene
Concen: 6.96 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF059576.D
Acq: 20 Jul 2018 1:03

Tgt Ion:128 Resp: 16562
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.2
129 9.7 9.0 13.4

