

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\  
 Data File : BF098024.D  
 Acq On : 25 Aug 2017 1:39  
 Operator : SJ/JU  
 Sample : I4934-04  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4-SOIL-0-9.0

Quant Time: Aug 25 03:08:58 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

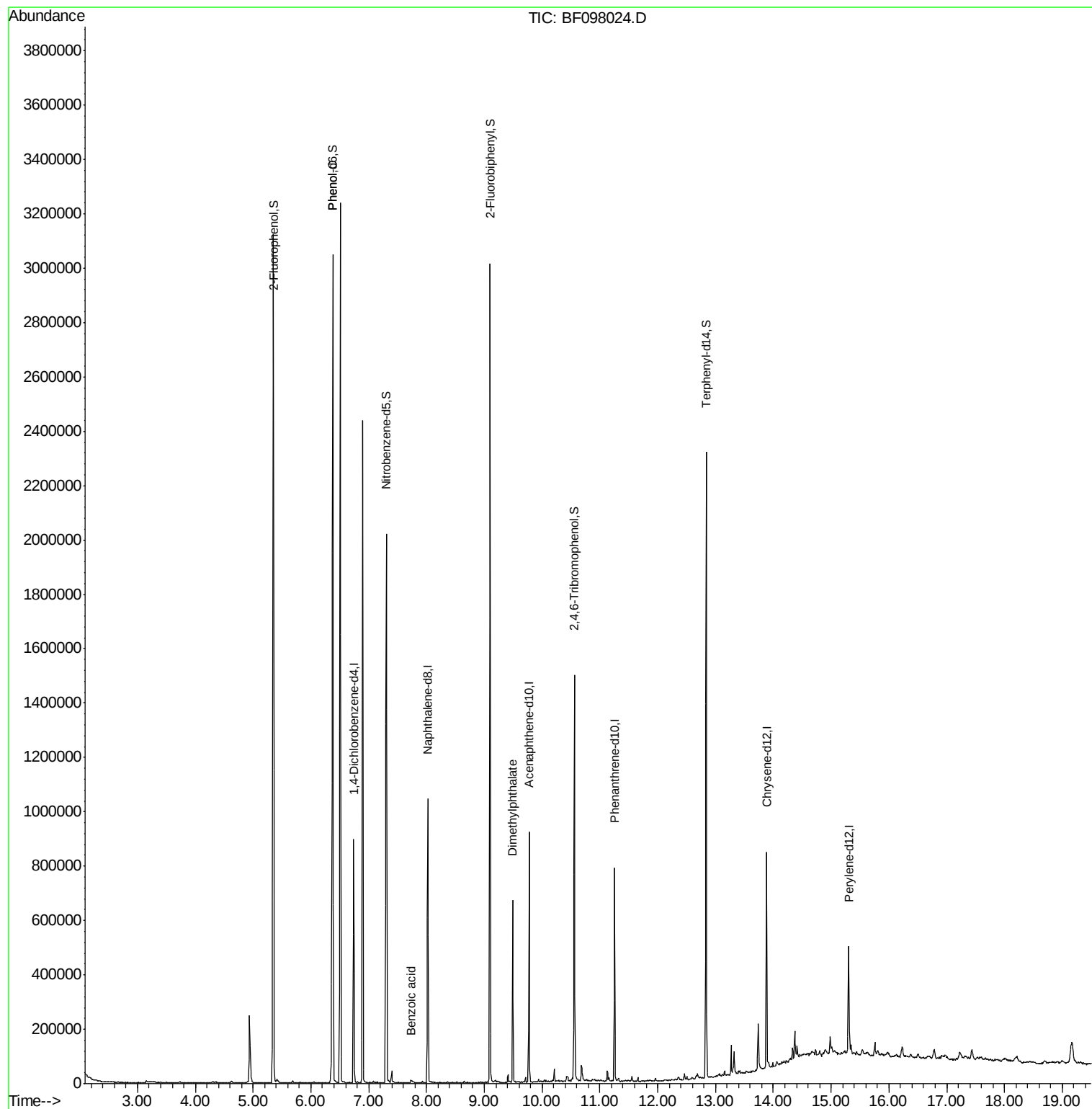
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 110378   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.02  | 136  | 416007   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.77  | 164  | 163607   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.25 | 188  | 274424   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.89 | 240  | 249761   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.30 | 264  | 177301   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 966207   | 133.15 | ng    | 0.00     |
| 7) Phenol-d6                | 6.38  | 99   | 1295505  | 131.40 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 760142   | 99.26  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 175383   | 123.55 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 888352   | 79.77  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.84 | 244  | 684697   | 57.17  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.39  | 94   | 31502    | 2.732  | ng    | 93       |
| 32) Benzoic acid            | 7.73  | 122  | 3042     | 6.949  | ng    | # 83     |
| 49) Dimethylphthalate       | 9.49  | 163  | 214395   | 17.927 | ng    | 99       |

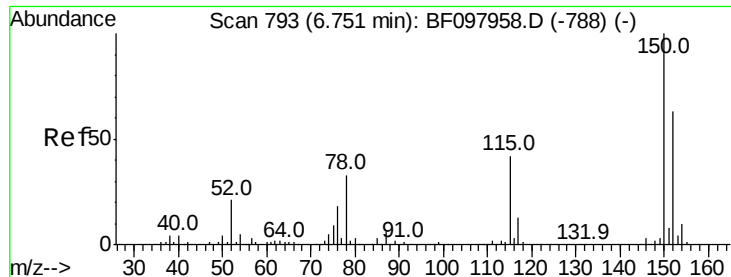
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB4-SOIL-0-9.0

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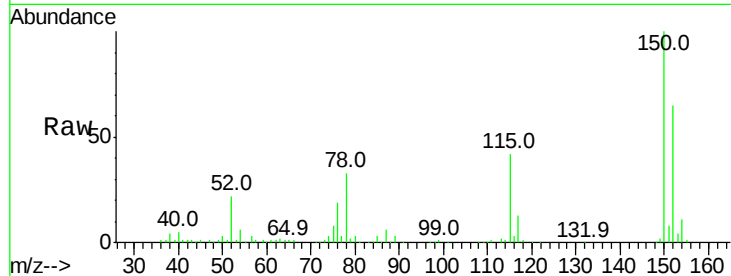


#1

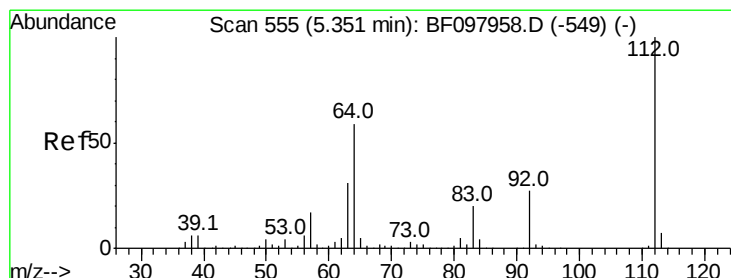
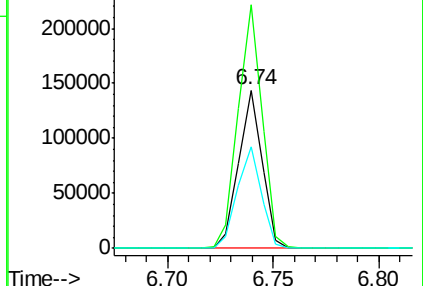
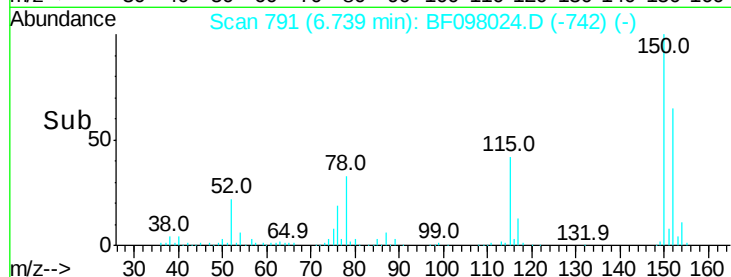
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.74 min Scan# 791  
 Delta R.T. -0.01 min  
 Lab File: BF098024.D  
 Acq: 25 Aug 2017 1:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4-SOIL-0-9.0

Tot Ion:152 Resp: 110378  
 Ion Ratio Lower Upper  
 152 100  
 150 154.2 126.2 189.2  
 115 64.0 52.2 78.2



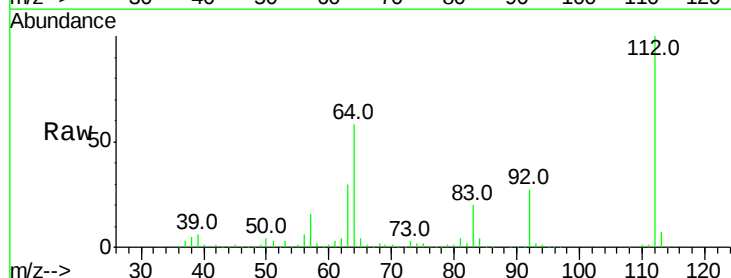
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



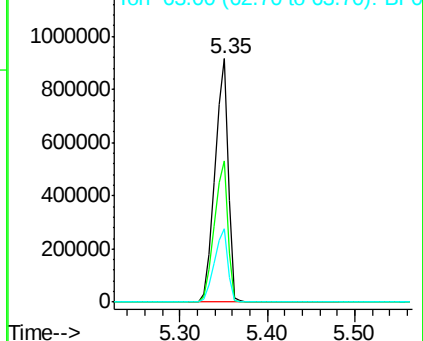
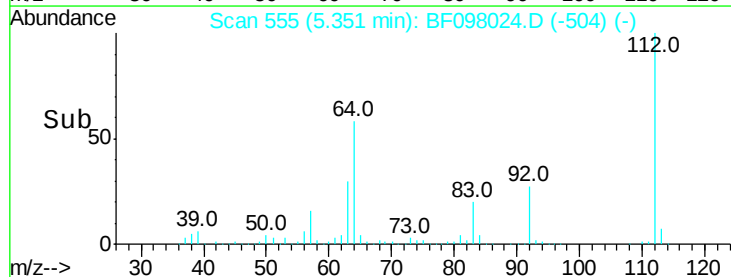
#5

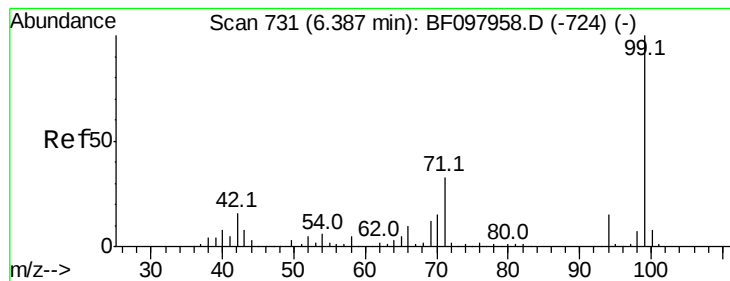
2-Fluorophenol  
 Concen: 133.149 ng  
 RT: 5.35 min Scan# 555  
 Delta R.T. -0.00 min  
 Lab File: BF098024.D  
 Acq: 25 Aug 2017 1:39

Tgt Ion:112 Resp: 966207  
 Ion Ratio Lower Upper  
 112 100  
 64 57.9 46.0 69.0  
 63 30.0 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 131.395 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

Instrument :

BNA\_F

ClientSampleId :

SB4-SOIL-0-9.0

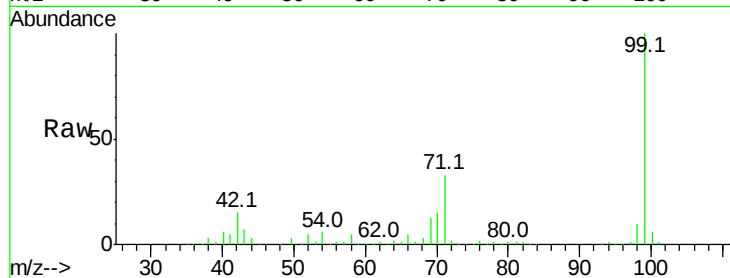
Tot Ion: 99 Resp: 1295505

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.8  | 13.5  | 20.3  |
| 71  | 32.7  | 24.5  | 36.7  |

99 100

42 14.8 13.5 20.3

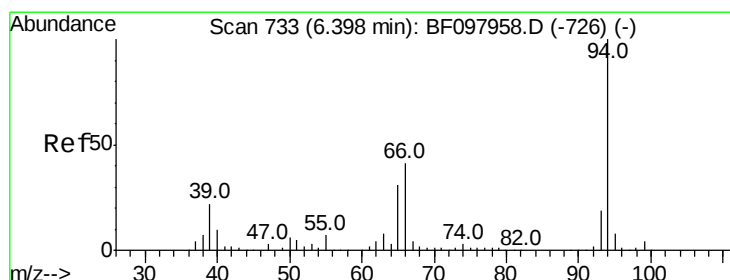
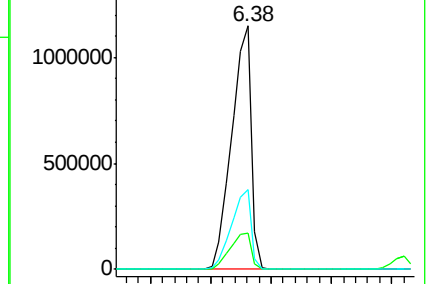
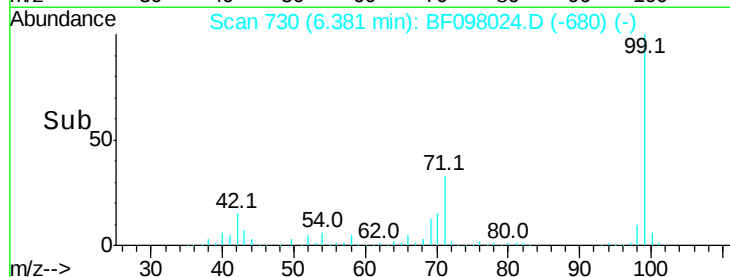
71 32.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.732 ng

RT: 6.39 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

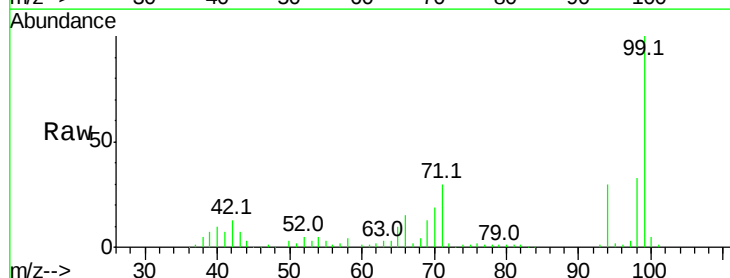
Tgt Ion: 94 Resp: 31502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 32.7  | 9.9   | 49.9  |
| 66  | 48.9  | 23.1  | 63.1  |

94 100

65 32.7 9.9 49.9

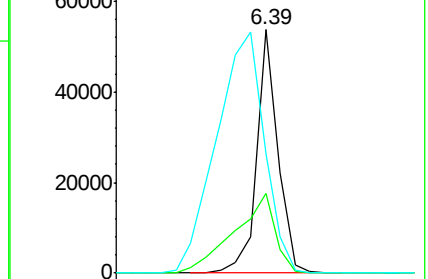
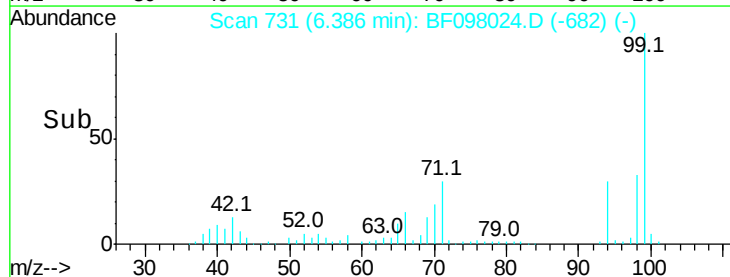
66 48.9 23.1 63.1

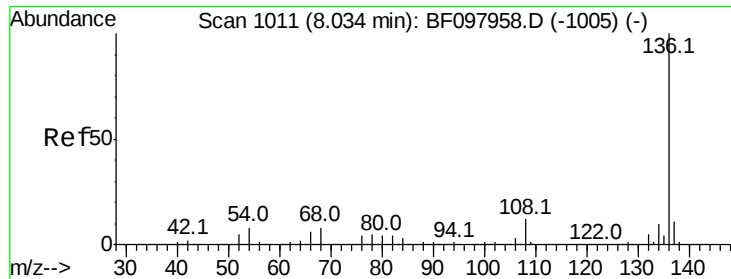


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

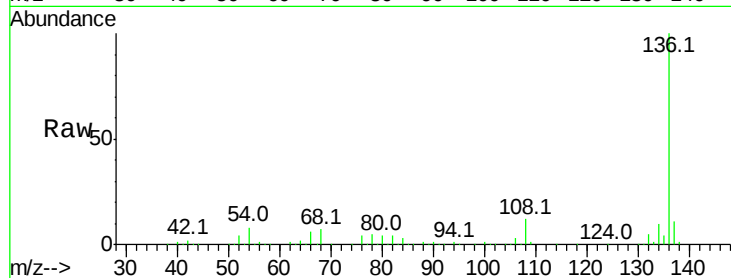




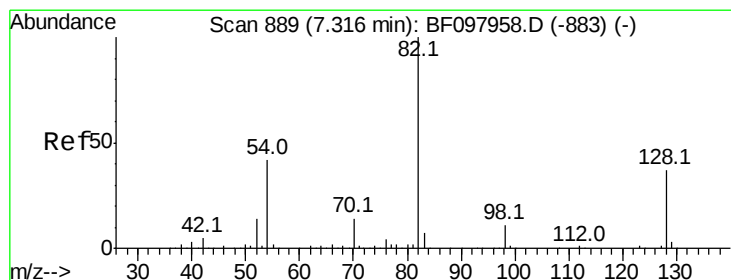
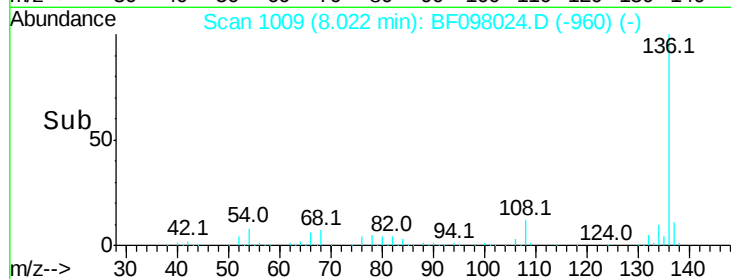
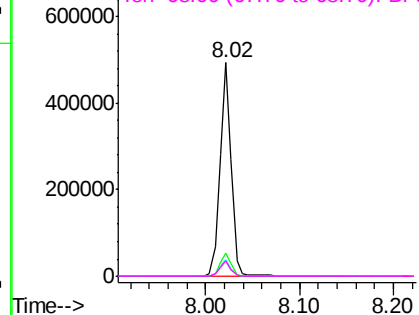
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BF098024.D  
Acq: 25 Aug 2017 1:39

Instrument :  
BNA\_F  
ClientSampleId :  
SB4-SOIL-0-9.0

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 416007 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.5   | 12.7   |
| 54       | 8.0   | 4.9   | 7.3#   |
| 68       | 7.2   | 4.1   | 6.1#   |

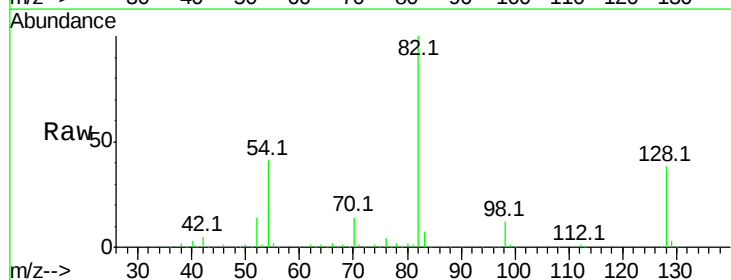


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

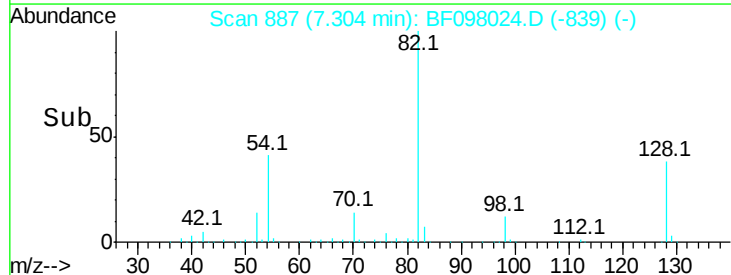
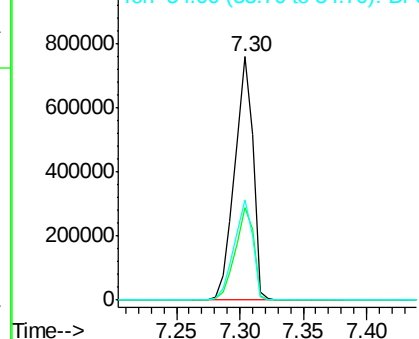


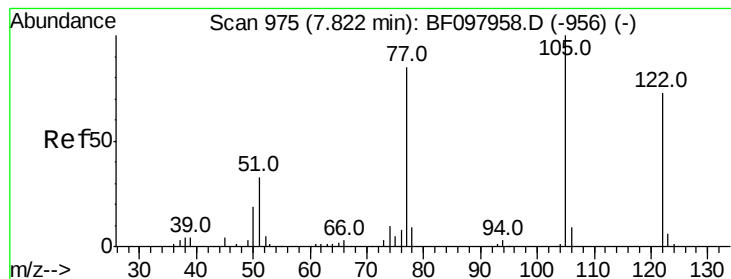
#23  
Nitrobenzene-d5  
Concen: 99.264 ng  
RT: 7.30 min Scan# 887  
Delta R.T. -0.02 min  
Lab File: BF098024.D  
Acq: 25 Aug 2017 1:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 760142 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.2  | 34.0  | 51.0   |
| 54       | 41.3  | 42.2  | 63.2#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 6.949 ng

RT: 7.73 min Scan# 959

Delta R.T. -0.11 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

Instrument :

BNA\_F

ClientSampleId :

SB4-SOIL-0-9.0

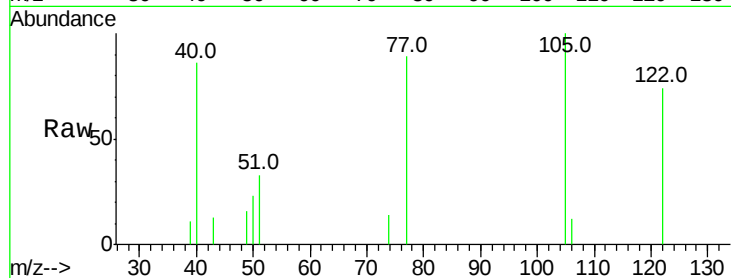
Tot Ion:122 Resp: 3042

Ion Ratio Lower Upper

122 100

105 134.6 103.3 143.3

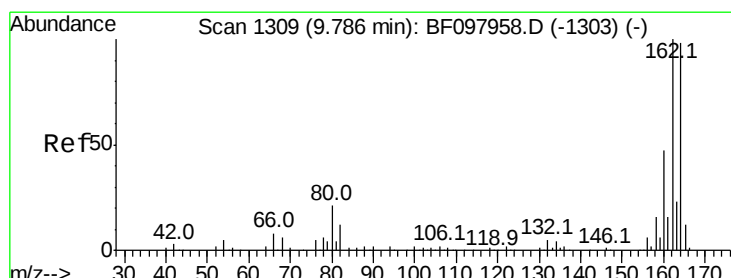
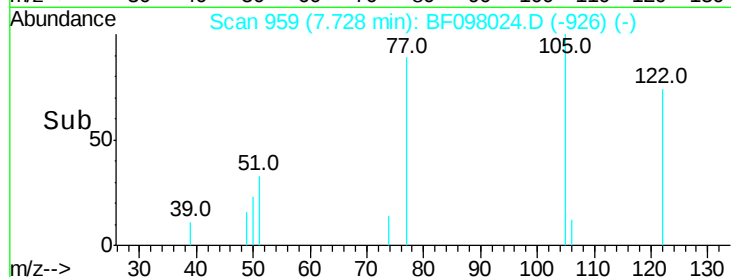
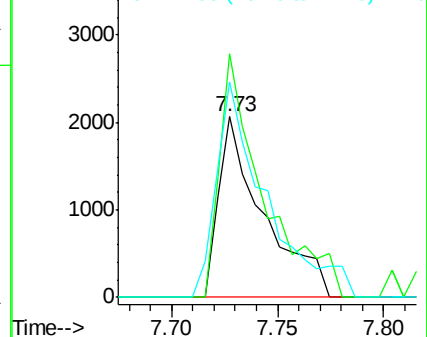
77 119.4 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BFO



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

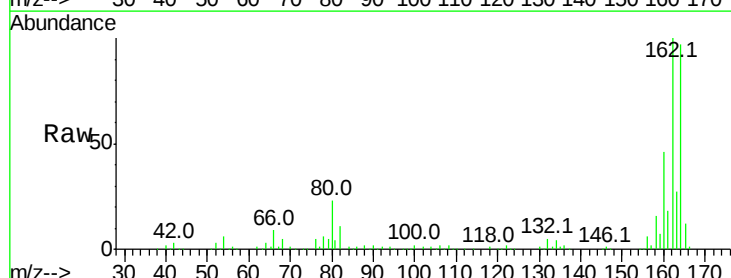
Tgt Ion:164 Resp: 163607

Ion Ratio Lower Upper

164 100

162 102.8 82.6 123.8

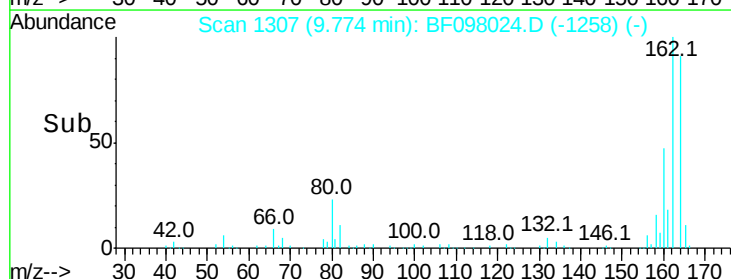
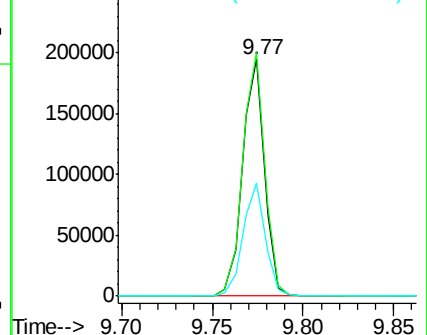
160 47.7 36.2 54.2

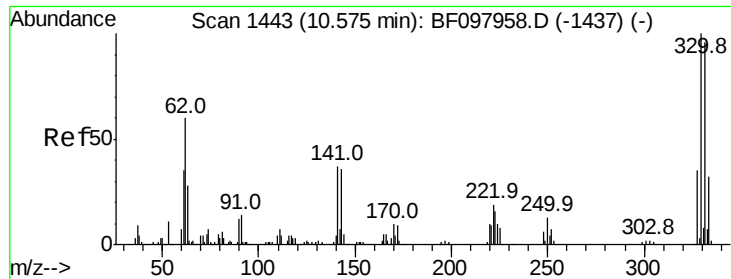


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

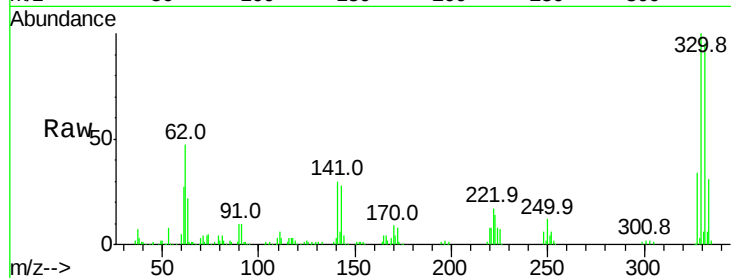




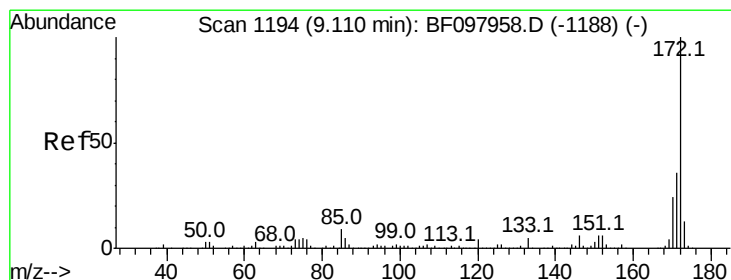
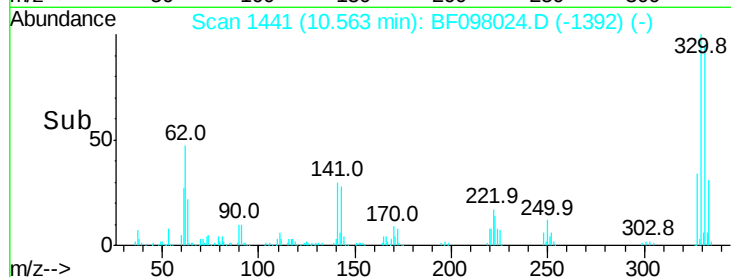
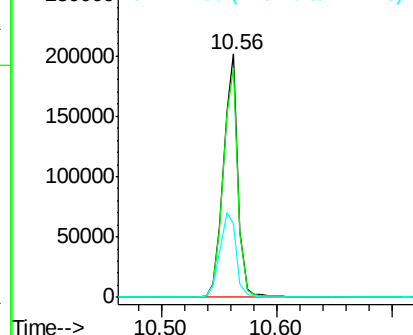
#41  
 2,4,6-Tribromophenol  
 Concen: 123.548 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BF098024.D  
 Acq: 25 Aug 2017 1:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4-SOIL-0-9.0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 76.6  | 115.0 |
| 141     | 39.2  | 31.4  | 47.2  |

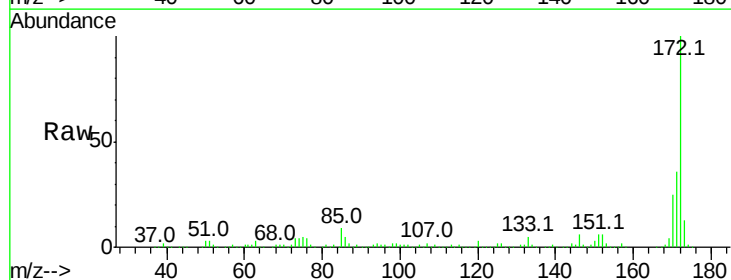


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

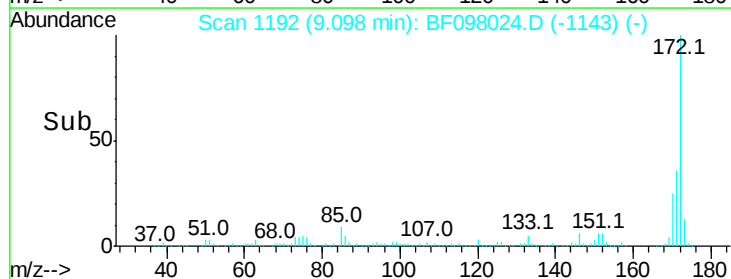
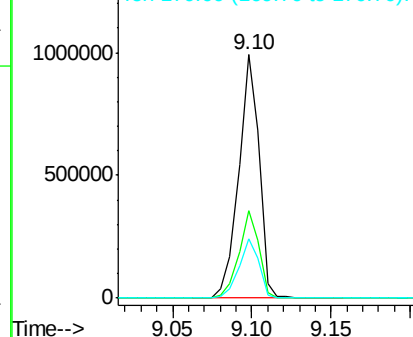


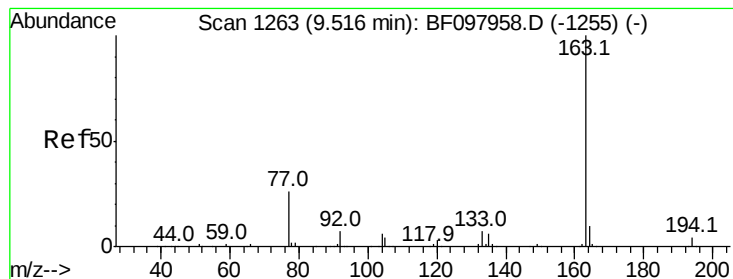
#44  
 2-Fluorobiphenyl  
 Concen: 79.775 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF098024.D  
 Acq: 25 Aug 2017 1:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 24.6  | 19.8  | 29.8  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 17.927 ng

RT: 9.49 min Scan# 1259

Delta R.T. -0.02 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

Instrument :

BNA\_F

ClientSampleId :

SB4-SOIL-0-9.0

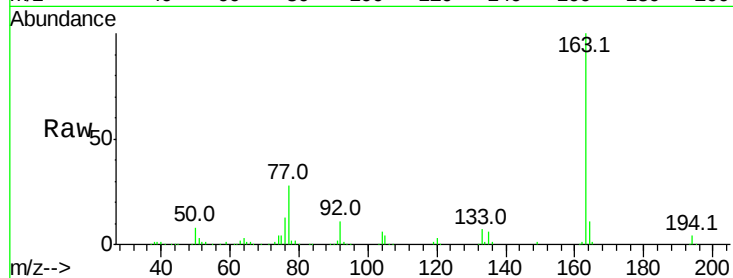
Tot Ion:163 Resp: 214395

Ion Ratio Lower Upper

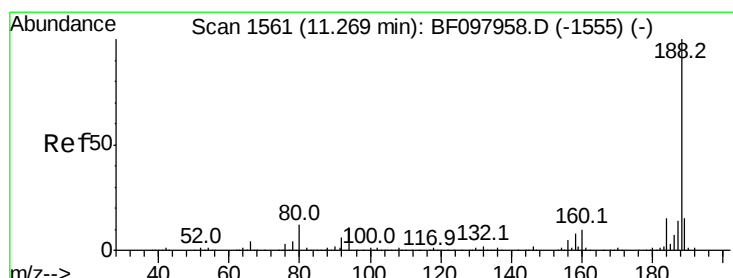
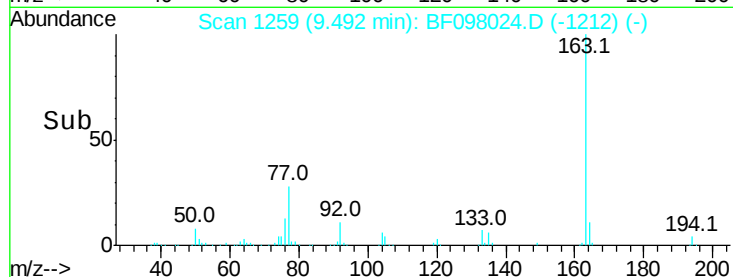
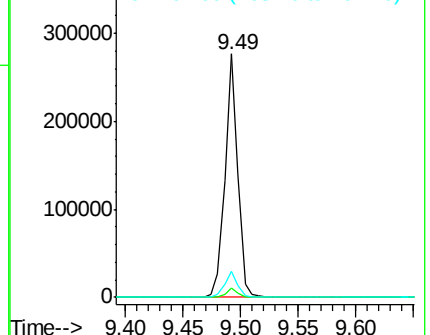
163 100

194 3.6 2.6 4.0

164 10.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

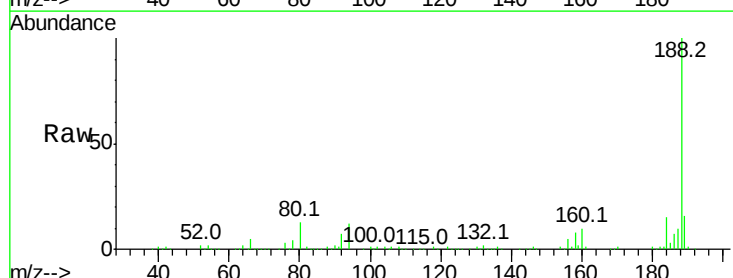
Tgt Ion:188 Resp: 274424

Ion Ratio Lower Upper

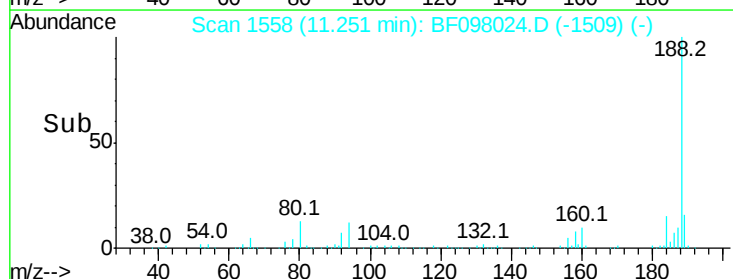
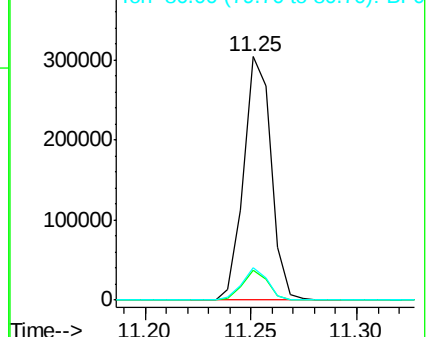
188 100

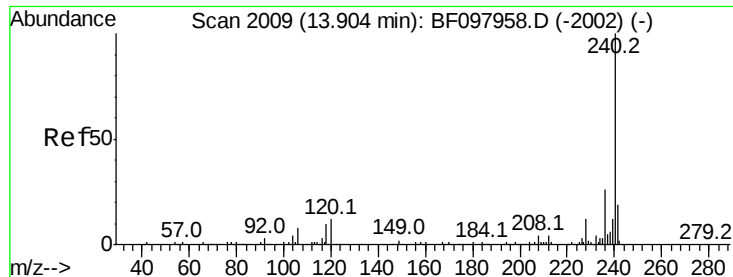
94 12.4 9.4 14.2

80 13.4 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

Instrument :

BNA\_F

ClientSampleId :

SB4-SOIL-0-9.0

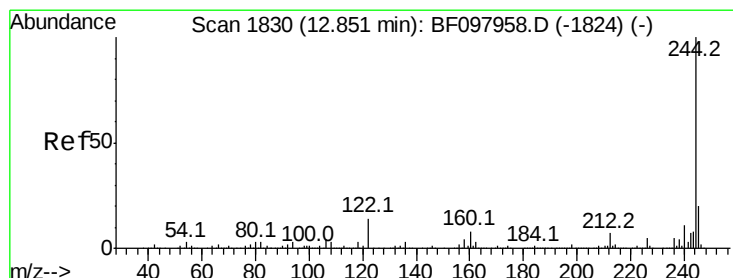
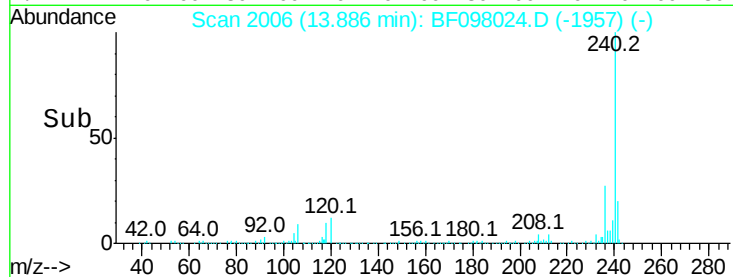
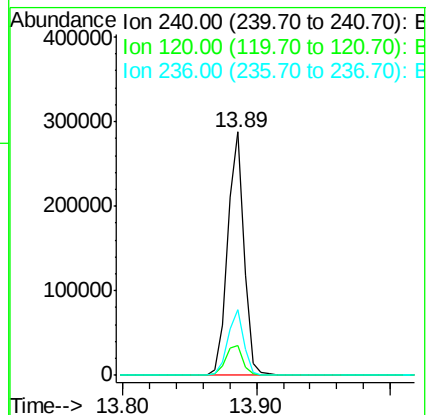
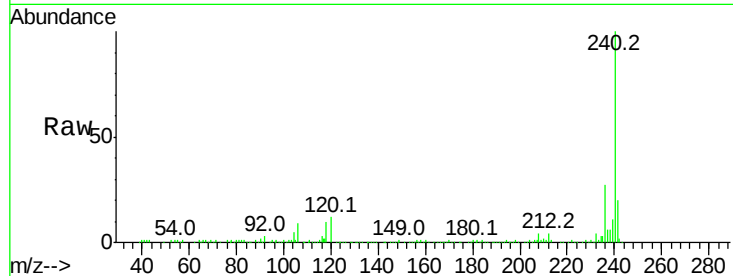
Tot Ion:240 Resp: 249761

Ion Ratio Lower Upper

240 100

120 12.4 5.8 8.8#

236 26.9 20.5 30.7



#78

Terphenyl-d14

Concen: 57.168 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098024.D

Acq: 25 Aug 2017 1:39

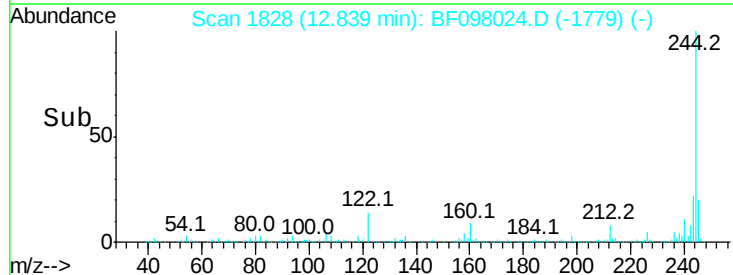
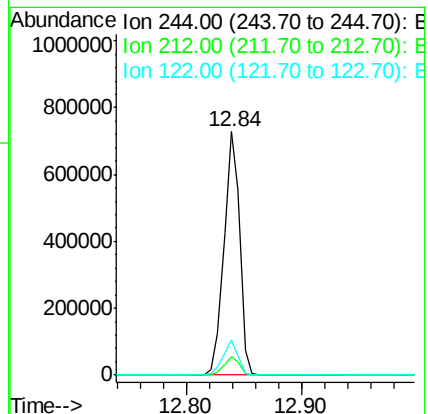
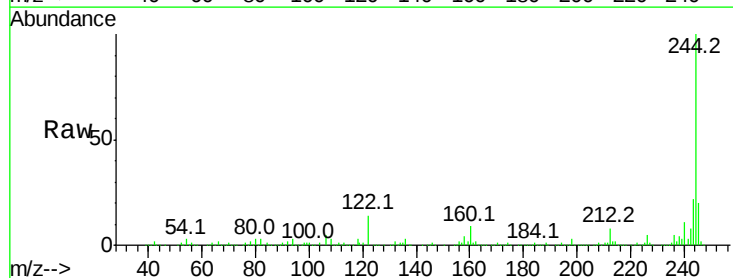
Tgt Ion:244 Resp: 684697

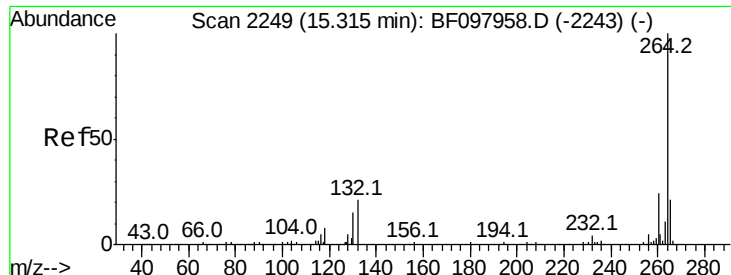
Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

122 14.1 10.3 15.5

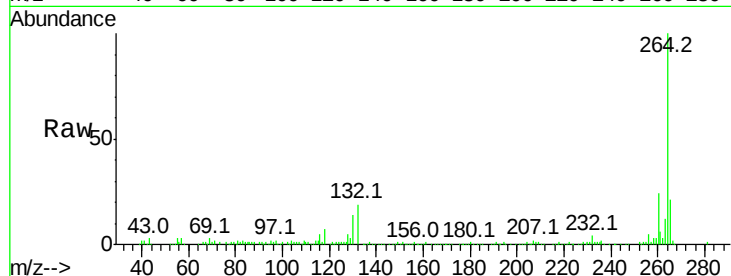




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.30 min Scan# 2247  
Delta R.T. -0.01 min  
Lab File: BF098024.D  
Acq: 25 Aug 2017 1:39

Instrument :  
BNA\_F  
ClientSampleId :  
SB4-SOIL-0-9.0

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 264     | 100  |       |       |       |
| 260     | 23.8 | 19.5  | 29.3  |       |
| 265     | 21.1 | 17.2  | 25.8  |       |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

