

Data Path : U:\HPCHEM1\BNA G\DATA\BG011018\  
 Data File : BG031979.D  
 Acq On : 10 Jan 2018 16:37  
 Operator : SJ/JU  
 Sample : J1042-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Quant Time: Jan 11 09:40:30 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG122117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 05 15:31:34 2018  
 Response via : Initial Calibration

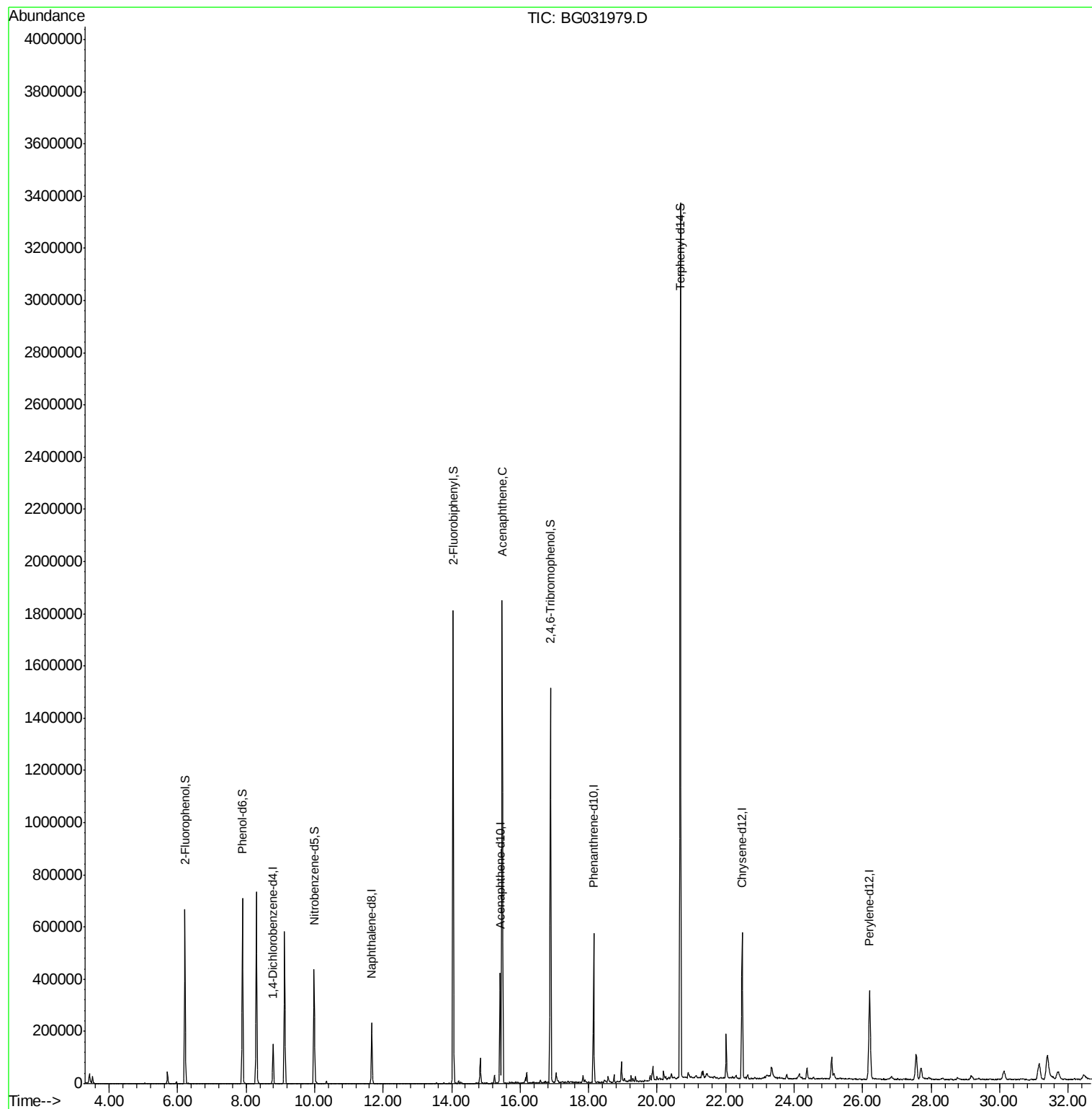
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.78  | 152  | 53853    | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 11.67 | 136  | 235799   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 15.41 | 164  | 163144   | 20.00  | ng    | -0.02        |
| 63) Phenanthrene-d10        | 18.14 | 188  | 392504   | 20.00  | ng    | -0.02        |
| 75) Chrysene-d12            | 22.48 | 240  | 428345   | 20.00  | ng    | -0.04        |
| 86) Perylene-d12            | 26.20 | 264  | 438729   | 20.00  | ng    | -0.09        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 6.21  | 112  | 362478   | 122.60 | ng    | 0.00         |
| 7) Phenol-d6                | 7.89  | 99   | 496212   | 129.26 | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.98  | 82   | 279960   | 89.65  | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 16.89 | 330  | 369902   | 148.59 | ng    | -0.02        |
| 44) 2-Fluorobiphenyl        | 14.04 | 172  | 1087861  | 83.69  | ng    | -0.01        |
| 78) Terphenyl-d14           | 20.68 | 244  | 1896333  | 101.14 | ng    | -0.02        |
| Target Compounds            |       |      |          |        |       |              |
| 51) Acenaphthene            | 15.48 | 154  | 789703   | 70.915 | ng    | Qvalue<br>99 |

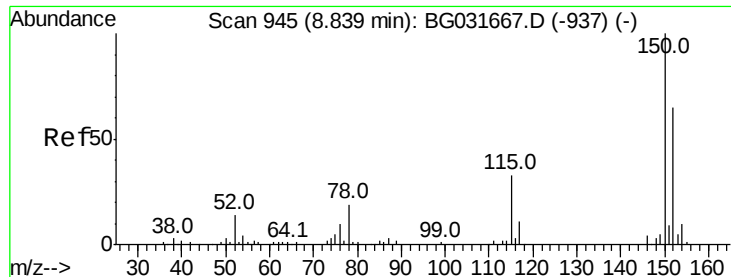
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



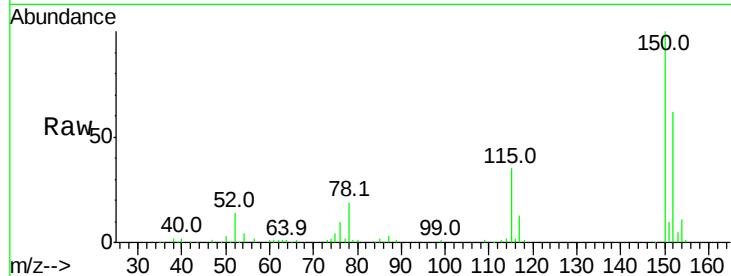


#1

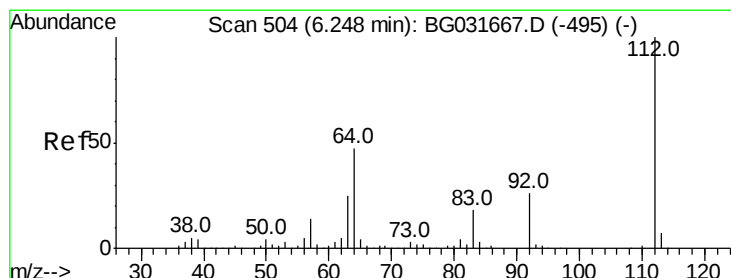
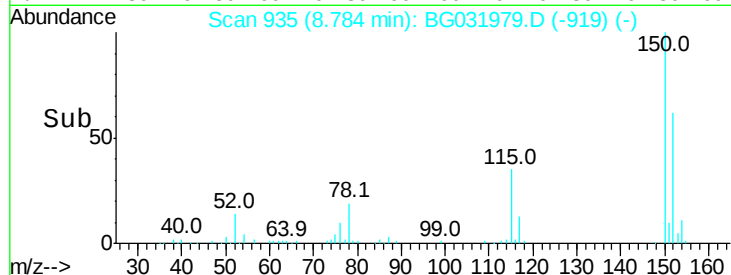
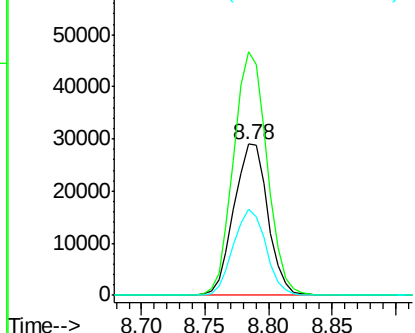
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.78 min Scan# 935  
 Delta R.T. -0.00 min  
 Lab File: BG031979.D  
 Acq: 10 Jan 2018 16:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Tot Ion:152 Resp: 53853  
 Ion Ratio Lower Upper  
 152 100  
 150 161.4 126.6 189.8  
 115 56.8 53.0 79.4



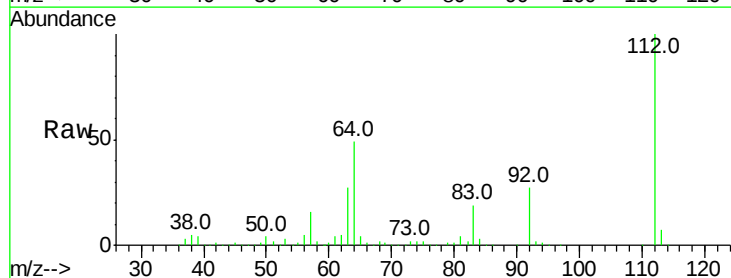
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



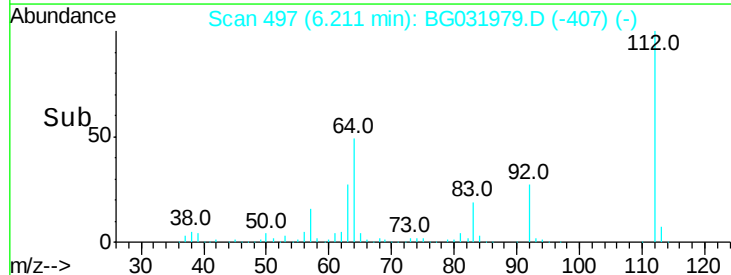
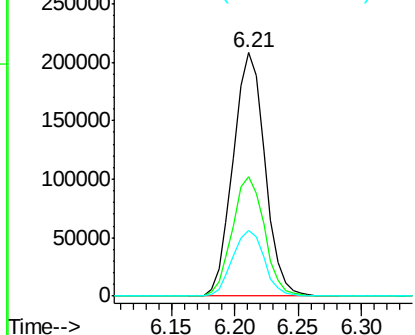
#5

2-Fluorophenol  
 Concen: 122.595 ng  
 RT: 6.21 min Scan# 497  
 Delta R.T. 0.00 min  
 Lab File: BG031979.D  
 Acq: 10 Jan 2018 16:37

Tgt Ion:112 Resp: 362478  
 Ion Ratio Lower Upper  
 112 100  
 64 48.8 56.3 84.5#  
 63 26.8 30.1 45.1#



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





#7

Phenol-d6

Concen: 129.263 ng

RT: 7.89 min Scan# 783

Delta R.T. 0.00 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

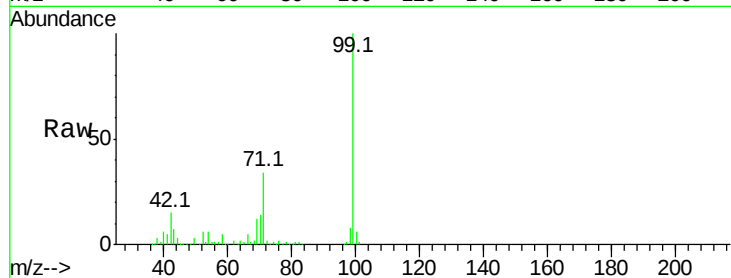
Tot Ion: 99 Resp: 496212

Ion Ratio Lower Upper

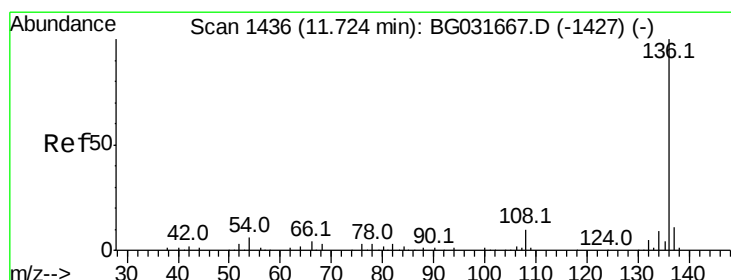
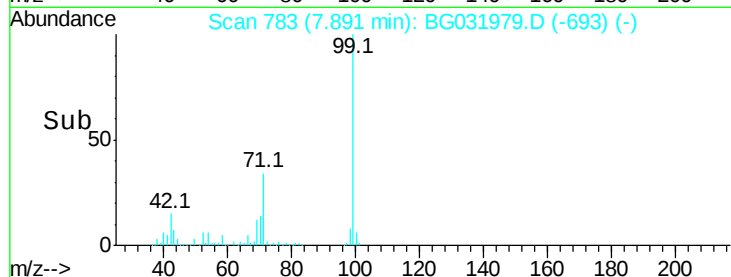
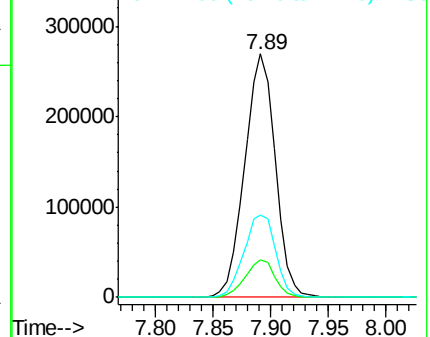
99 100

42 15.2 14.1 21.1

71 33.8 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.67 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

Tgt Ion: 136 Resp: 235799

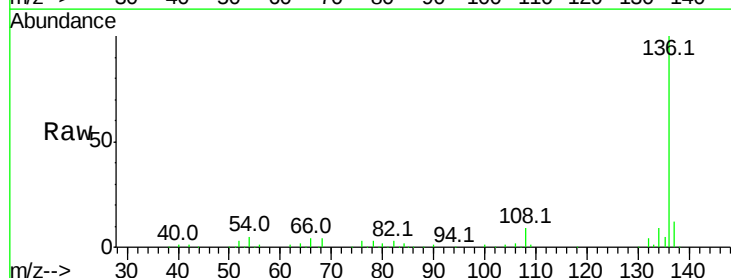
Ion Ratio Lower Upper

136 100

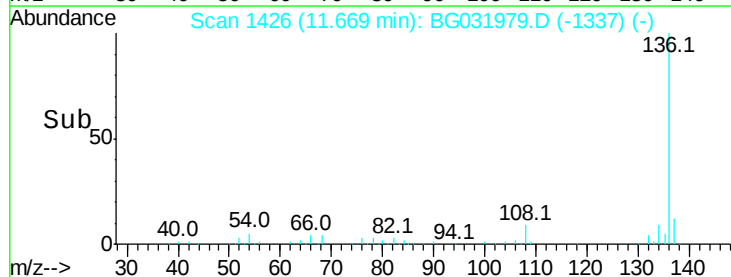
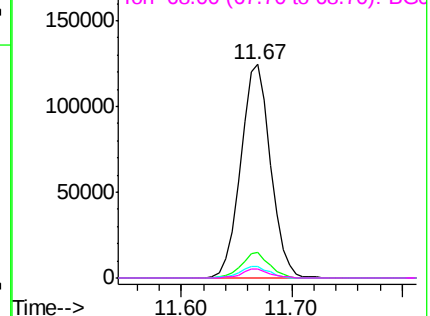
137 11.9 9.2 13.8

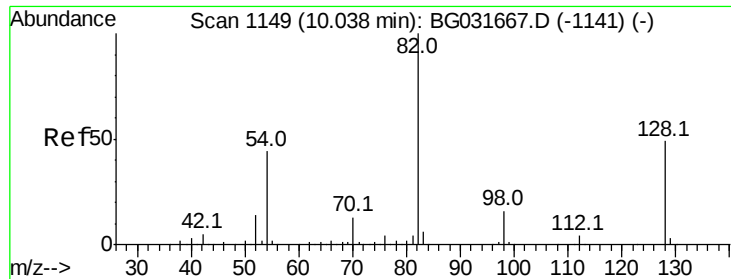
54 5.3 10.3 15.5#

68 3.9 4.5 6.7#



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

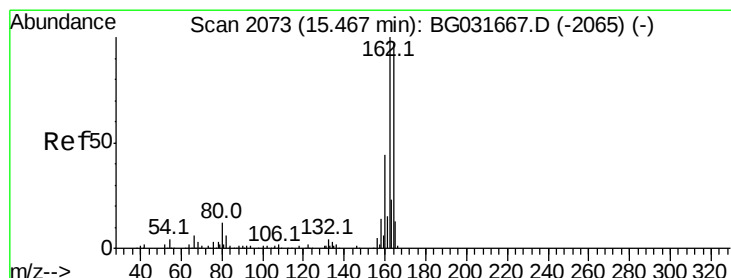
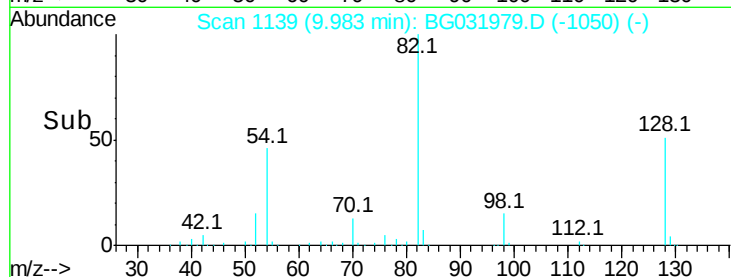
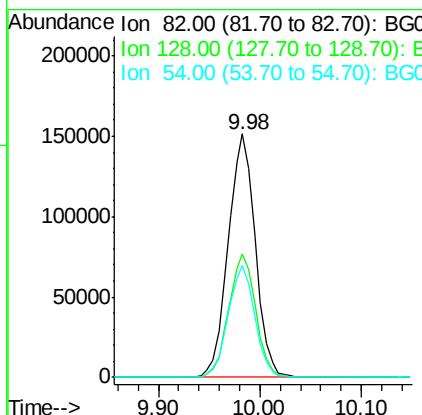
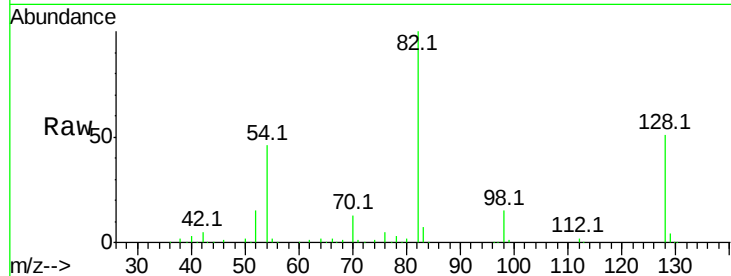




#23  
 Nitrobenzene-d5  
 Concen: 89.654 ng  
 RT: 9.98 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: BG031979.D  
 Acq: 10 Jan 2018 16:37

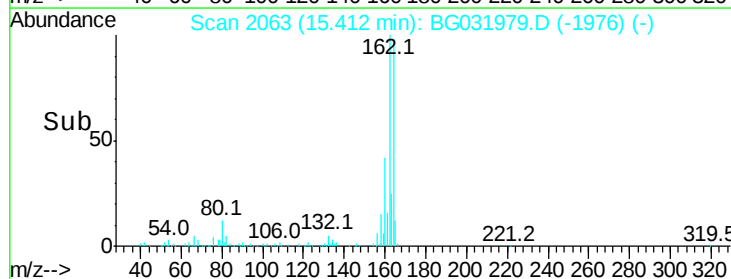
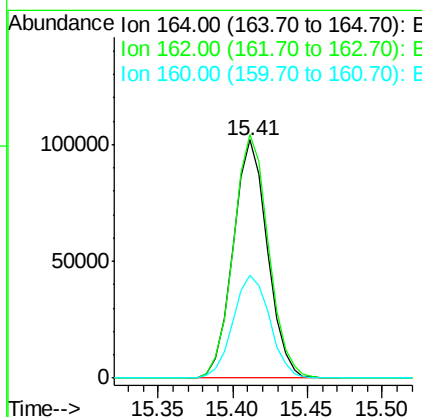
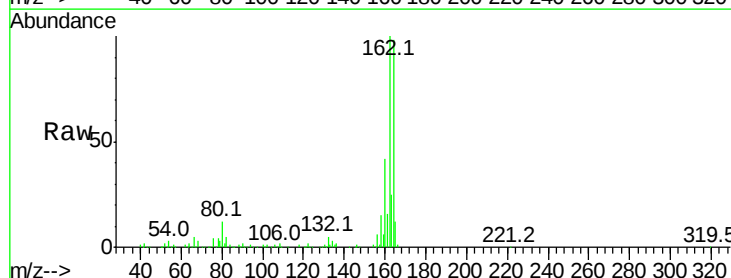
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

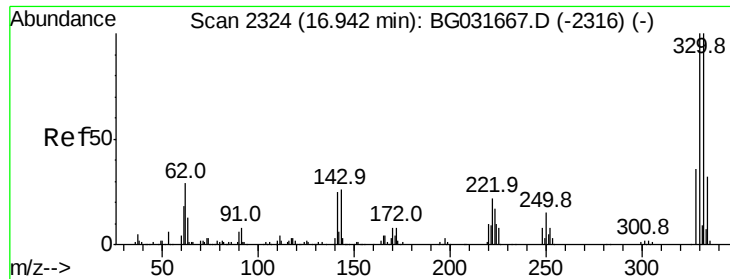
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 50.9  | 29.7  | 44.5# |
| 54      | 46.1  | 43.1  | 64.7  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.41 min Scan# 2063  
 Delta R.T. -0.02 min  
 Lab File: BG031979.D  
 Acq: 10 Jan 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.1 | 78.8  | 118.2 |
| 160     | 42.9  | 35.4  | 53.0  |





#41

2,4,6-Tribromophenol

Concen: 148.594 ng

RT: 16.89 min Scan# 2314

Delta R.T. -0.02 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

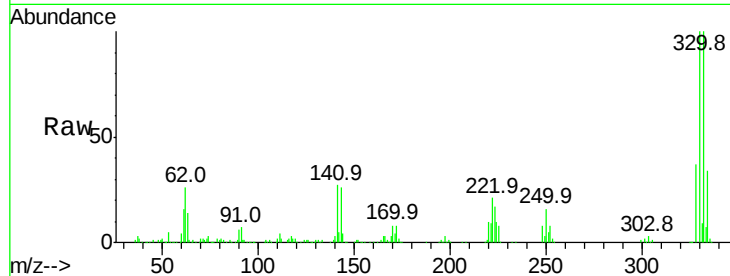
Tot Ion:330 Resp: 369902

Ion Ratio Lower Upper

330 100

332 97.4 77.0 115.6

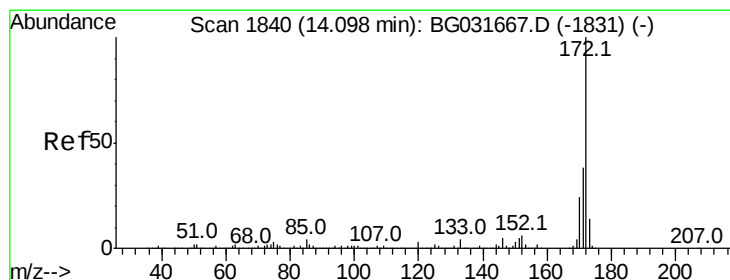
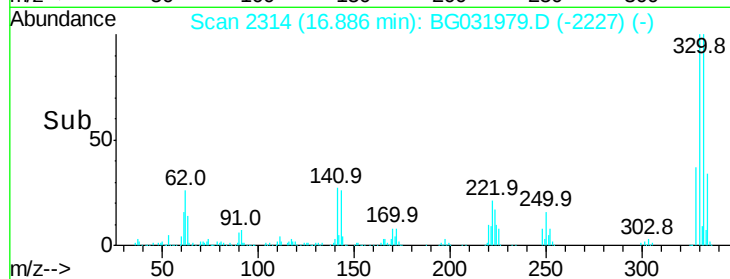
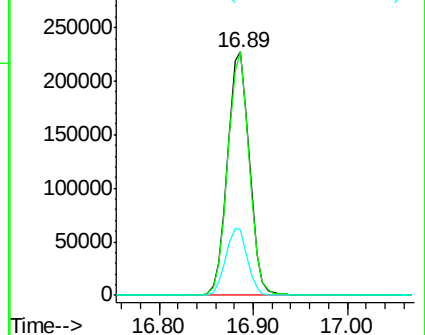
141 27.5 25.2 37.8



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: 83.694 ng

RT: 14.04 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

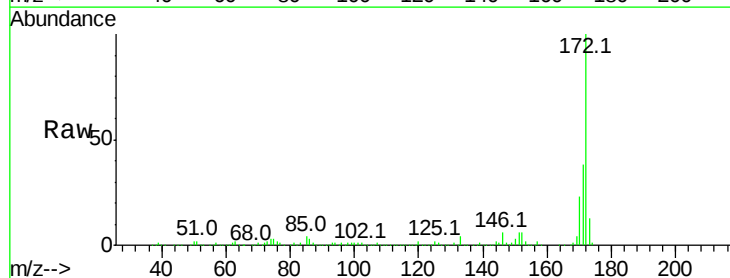
Tgt Ion:172 Resp: 1087861

Ion Ratio Lower Upper

172 100

171 37.7 30.0 45.0

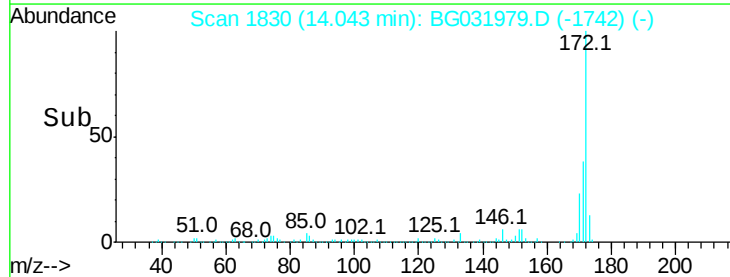
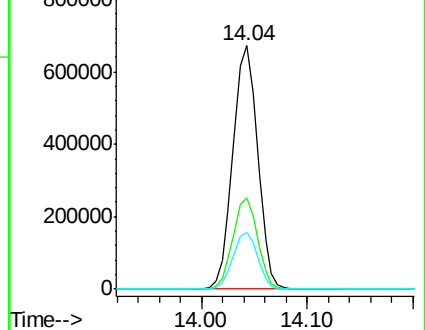
170 23.4 19.5 29.3

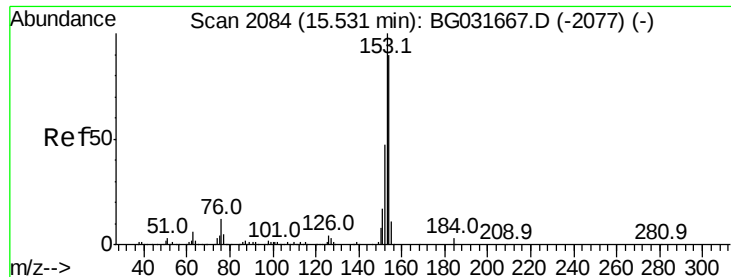


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 70.915 ng

RT: 15.48 min Scan# 2074

Delta R.T. -0.02 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

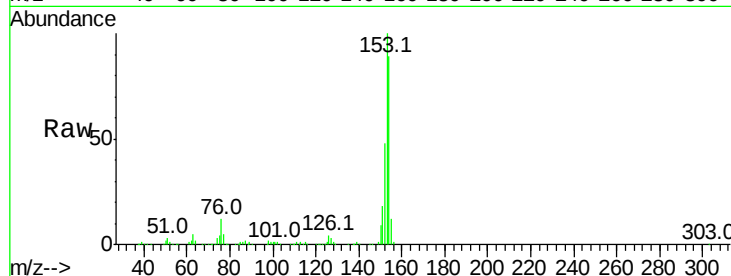
Tot Ion:154 Resp: 789703

Ion Ratio Lower Upper

154 100

153 112.0 90.4 135.6

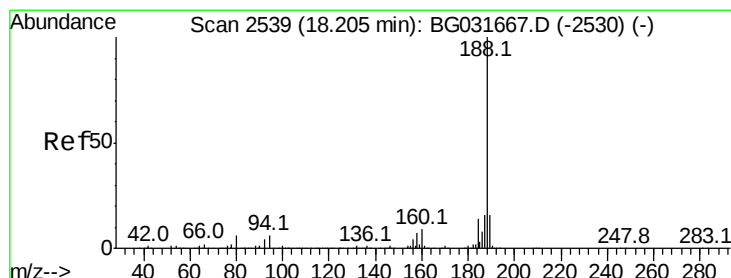
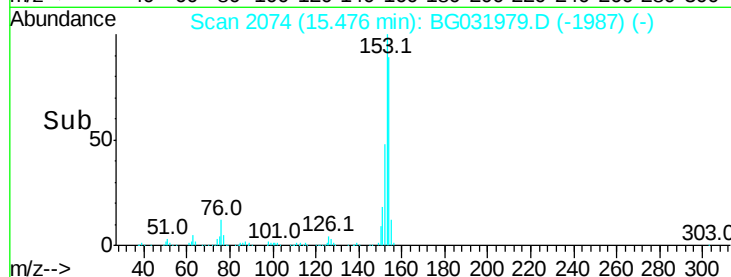
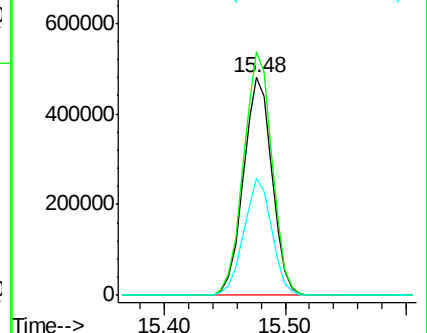
152 53.8 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.14 min Scan# 2528

Delta R.T. -0.02 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

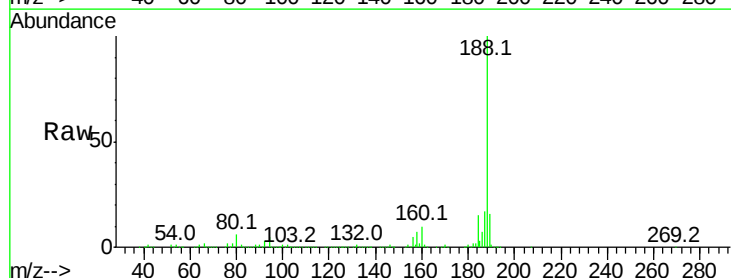
Tgt Ion:188 Resp: 392504

Ion Ratio Lower Upper

188 100

94 5.0 6.9 10.3#

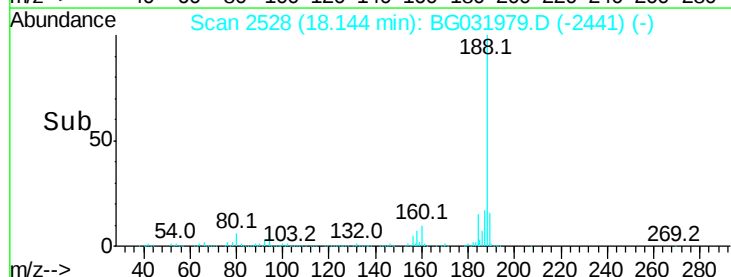
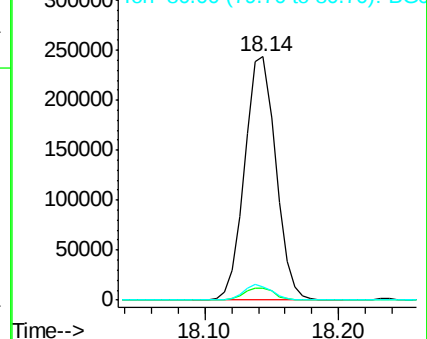
80 5.7 7.7 11.5#

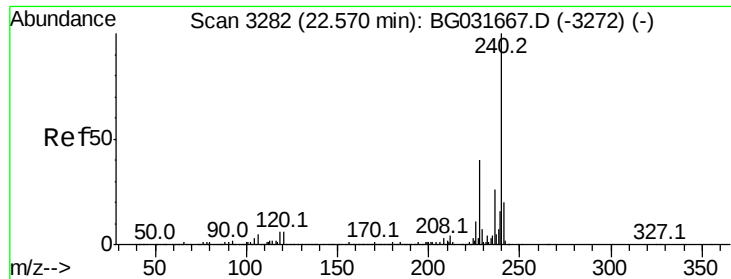


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.48 min Scan# 3266

Delta R.T. -0.04 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

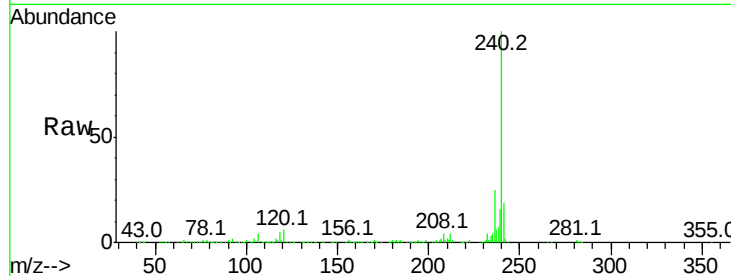
Tot Ion:240 Resp: 428345

Ion Ratio Lower Upper

240 100

120 5.6 6.8 10.2#

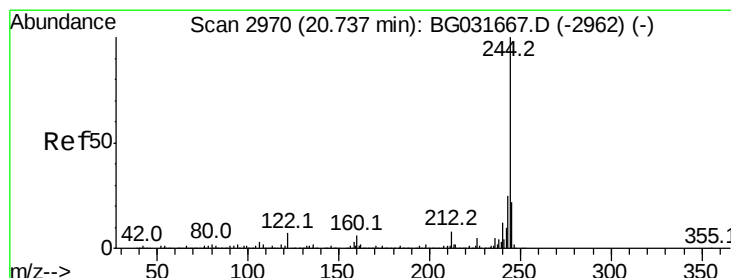
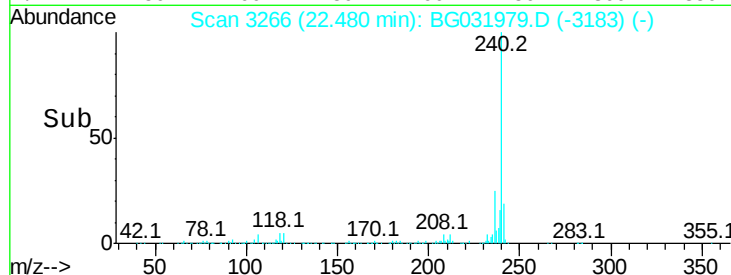
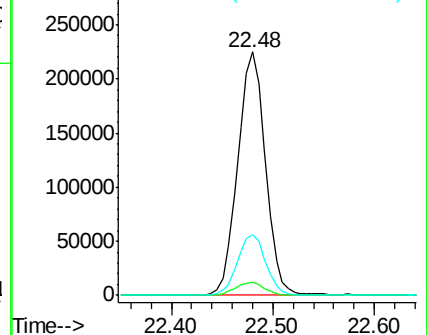
236 24.8 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 101.144 ng

RT: 20.68 min Scan# 2959

Delta R.T. -0.02 min

Lab File: BG031979.D

Acq: 10 Jan 2018 16:37

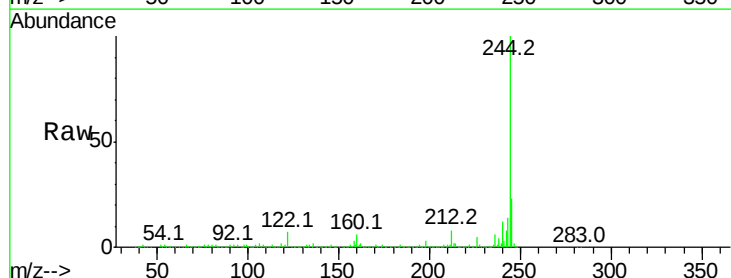
Tgt Ion:244 Resp: 1896333

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

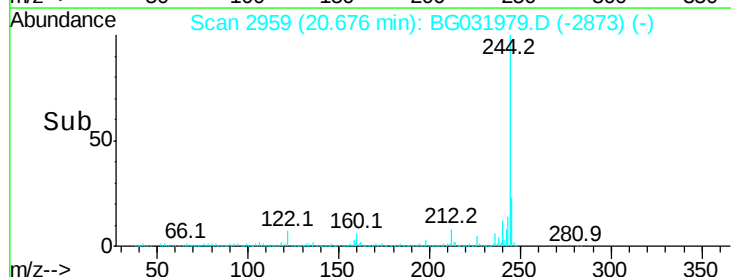
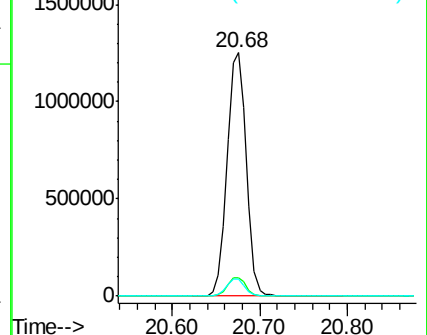
122 6.9 7.0 10.4#

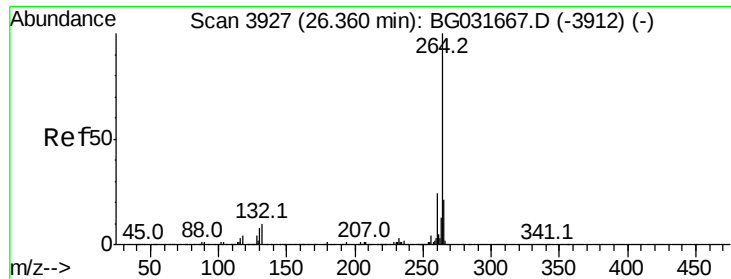


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

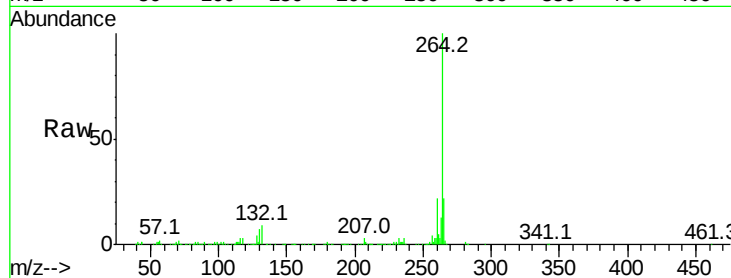




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.20 min Scan# 3900  
Delta R.T. -0.09 min  
Lab File: BG031979.D  
Acq: 10 Jan 2018 16:37

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 17.4  | 26.0  |
| 265     | 22.4  | 17.7  | 26.5  |



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

