

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG061517\  
 Data File : BG027461.D  
 Acq On : 16 Jun 2017 3:38  
 Operator : SJ/MA  
 Sample : I3684-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-ROAD-COMP

Quant Time: Jun 16 05:00:54 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG061417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 14 19:09:08 2017  
 Response via : Initial Calibration

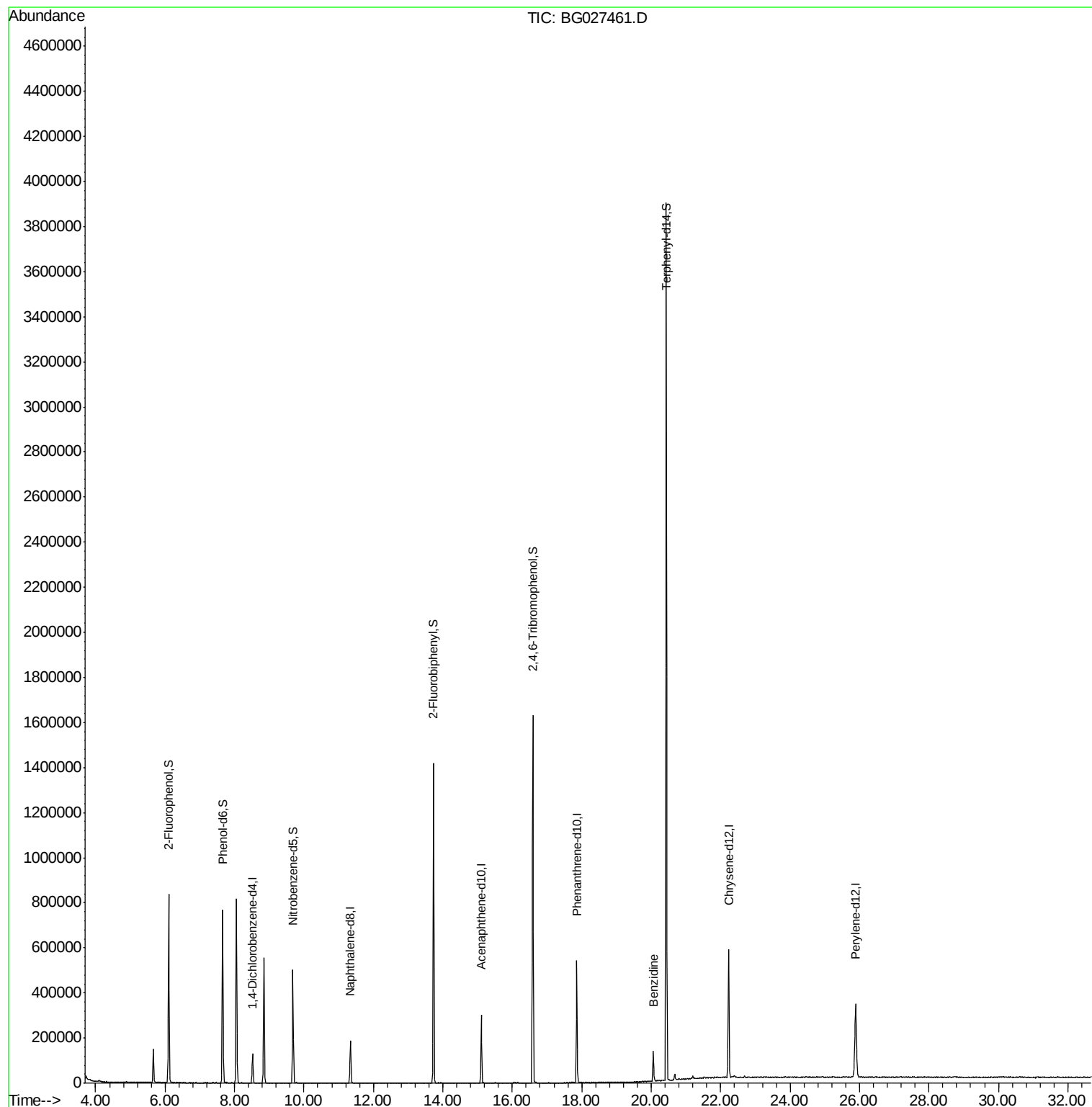
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.52  | 152  | 35777    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 11.34 | 136  | 159885   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 15.11 | 164  | 103005   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10        | 17.86 | 188  | 330064   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12            | 22.23 | 240  | 388536   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 25.89 | 264  | 371393   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 6.10  | 112  | 365153   | 144.24 | ng    | 0.00      |
| 7) Phenol-d6                | 7.66  | 99   | 470949   | 121.05 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 9.68  | 82   | 330262   | 105.31 | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 16.59 | 330  | 321017   | 207.65 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 13.73 | 172  | 732848   | 102.78 | ng    | 0.00      |
| 78) Terphenyl-d14           | 20.43 | 244  | 1747739  | 115.29 | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 76) Benzidine               | 20.06 | 184  | 88061    | 10.337 | ng    | Qvalue 96 |

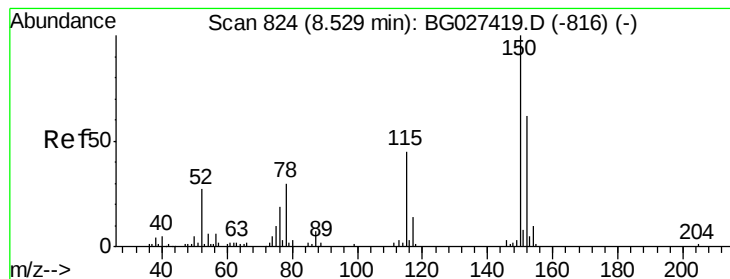
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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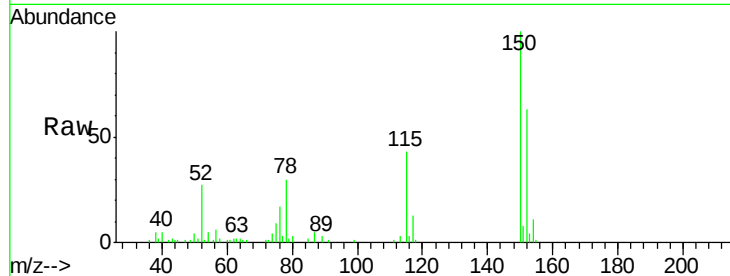


#1

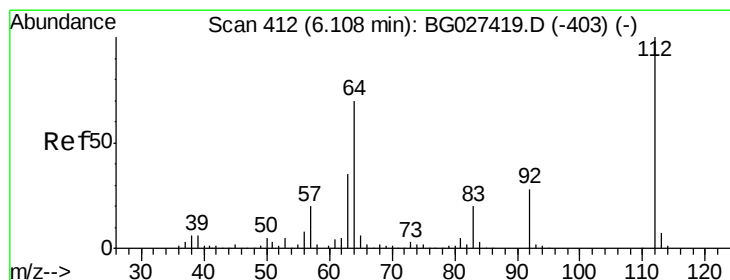
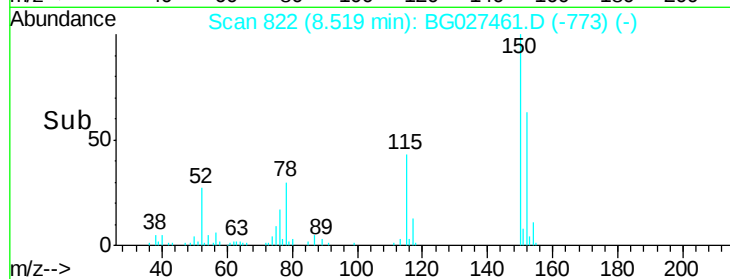
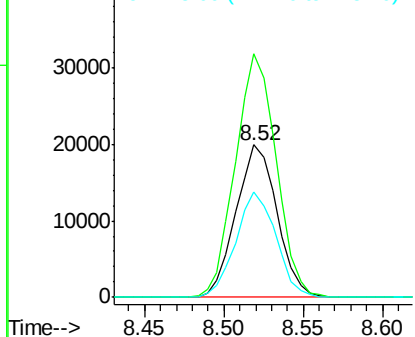
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.52 min Scan# 822  
Delta R.T. -0.01 min  
Lab File: BG027461.D  
Acq: 16 Jun 2017 3:38

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-ROAD-COMP

Tgt Ion:152 Resp: 35777  
Ion Ratio Lower Upper  
152 100  
150 159.7 114.0 171.0  
115 69.4 48.1 72.1



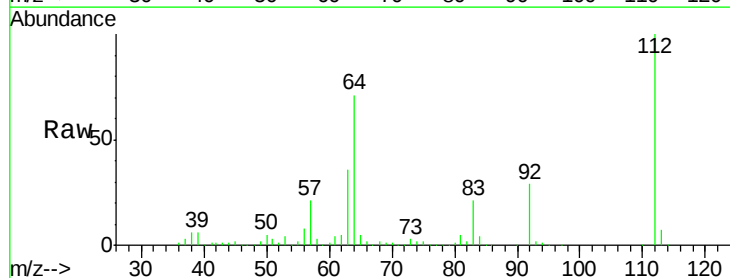
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



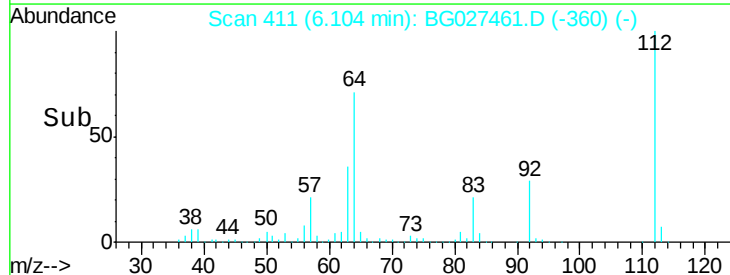
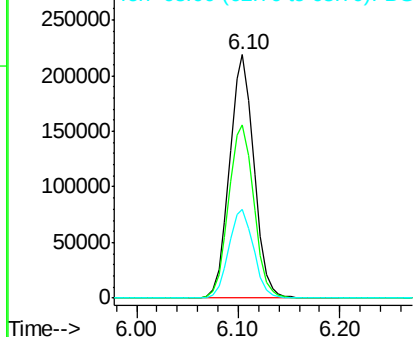
#5

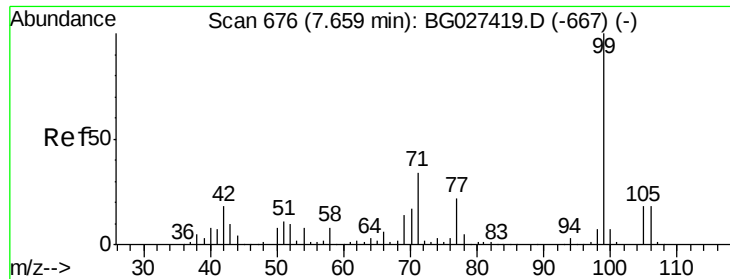
2-Fluorophenol  
Concen: 144.241 ng  
RT: 6.10 min Scan# 411  
Delta R.T. -0.00 min  
Lab File: BG027461.D  
Acq: 16 Jun 2017 3:38

Tgt Ion:112 Resp: 365153  
Ion Ratio Lower Upper  
112 100  
64 71.3 61.8 92.6  
63 36.4 37.2 55.8#



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: 121.051 ng

RT: 7.66 min Scan# 675

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

Instrument :

BNA\_G

ClientSampleId :

SOIL-ROAD-COMP

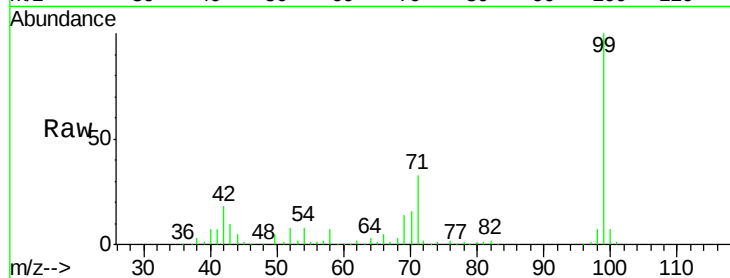
Tgt Ion: 99 Resp: 470949

Ion Ratio Lower Upper

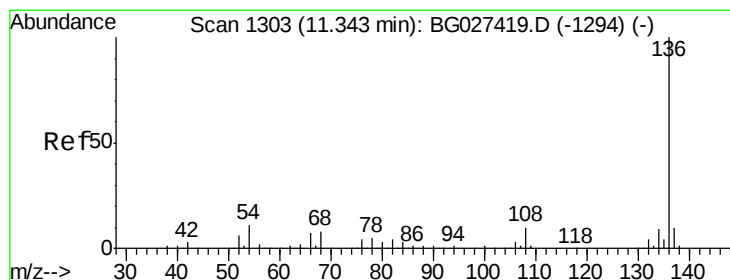
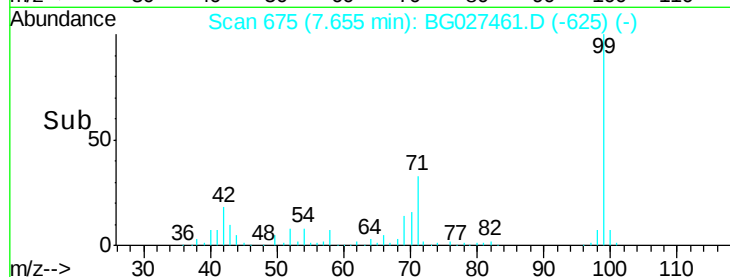
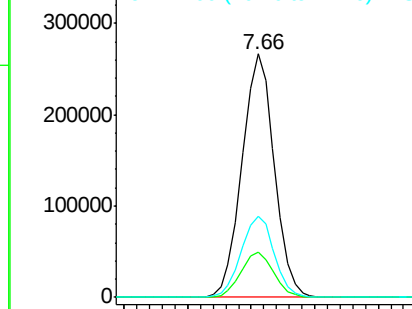
99 100

42 18.3 20.5 30.7#

71 33.1 37.6 56.4#



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: 11.34 min Scan# 1302

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

Tgt Ion: 136 Resp: 159885

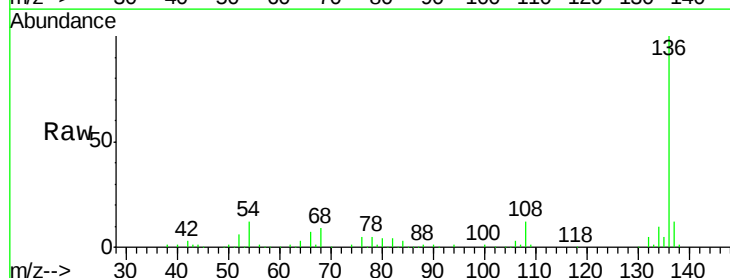
Ion Ratio Lower Upper

136 100

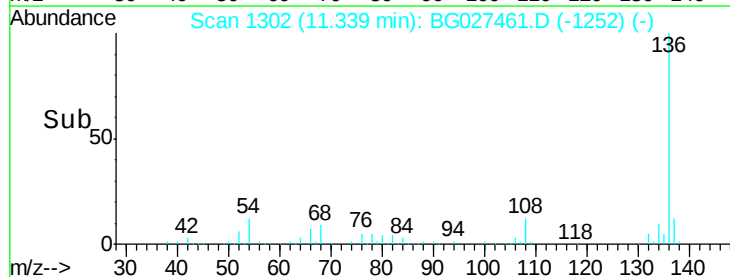
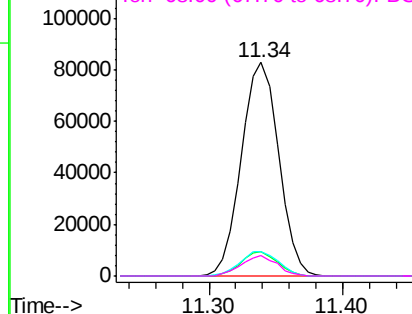
137 11.6 8.9 13.3

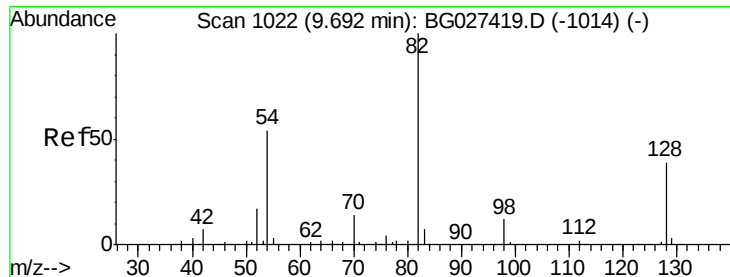
54 11.6 9.3 13.9

68 9.4 5.1 7.7#



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

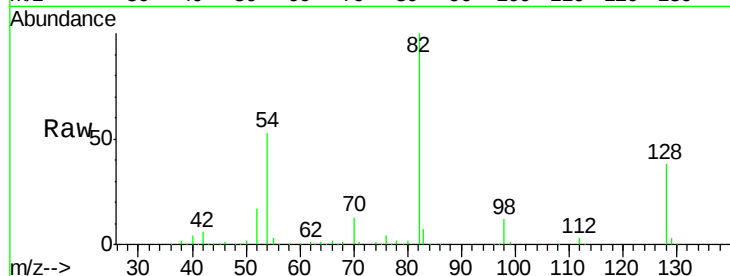




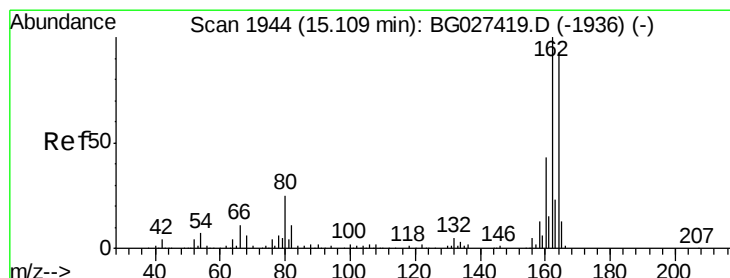
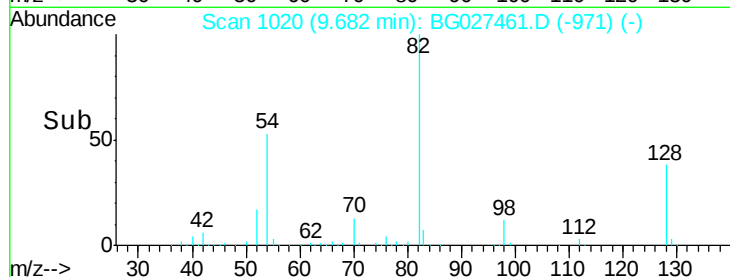
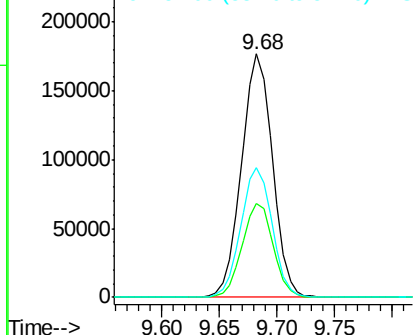
#23  
Nitrobenzene-d5  
Concen: 105.313 ng  
RT: 9.68 min Scan# 1020  
Delta R.T. -0.01 min  
Lab File: BG027461.D  
Acq: 16 Jun 2017 3:38

Instrument :  
BNA\_G  
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SOIL-ROAD-COMP

Tgt Ion: 82 Resp: 330262  
Ion Ratio Lower Upper  
82 100  
128 38.3 26.4 39.6  
54 53.3 49.4 74.2

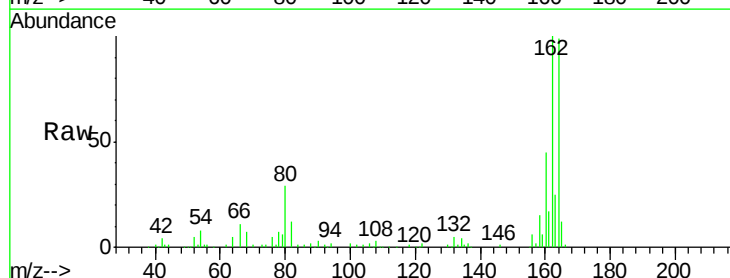


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

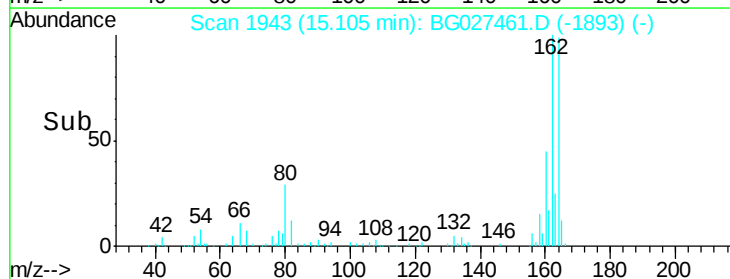
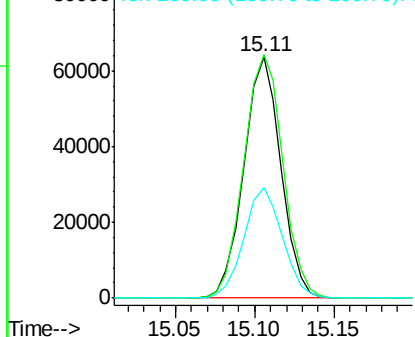


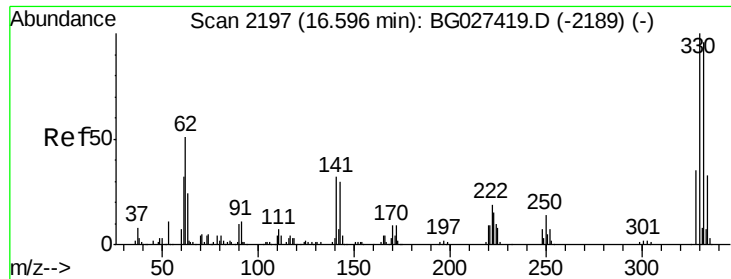
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.11 min Scan# 1943  
Delta R.T. -0.00 min  
Lab File: BG027461.D  
Acq: 16 Jun 2017 3:38

Tgt Ion: 164 Resp: 103005  
Ion Ratio Lower Upper  
164 100  
162 100.8 85.1 127.7  
160 45.8 34.7 52.1



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC





#41

2,4,6-Tribromophenol

Concen: 207.651 ng

RT: 16.59 min Scan# 2196

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

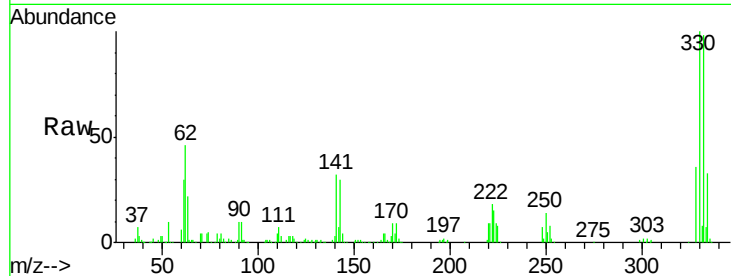
Instrument :

BNA\_G

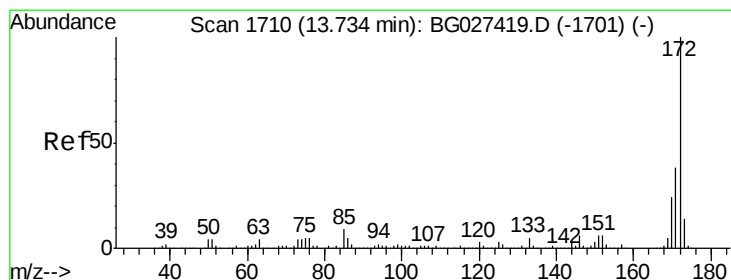
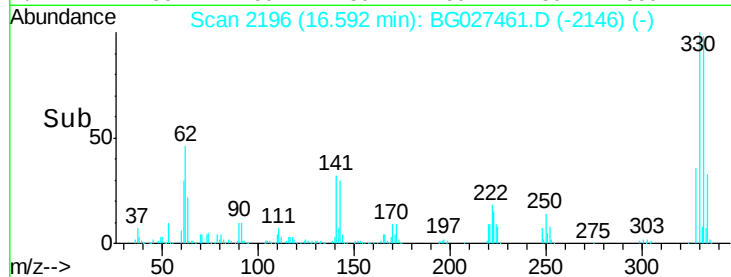
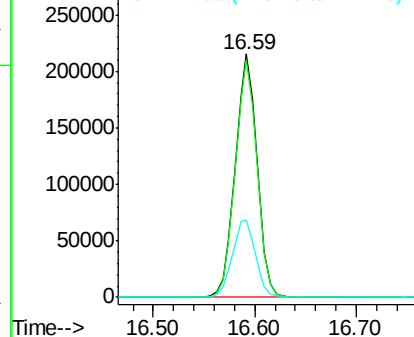
ClientSampleId :

SOIL-ROAD-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 321017 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.2  | 77.3  | 115.9  |
| 141       | 33.6  | 32.1  | 48.1   |



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: 102.781 ng

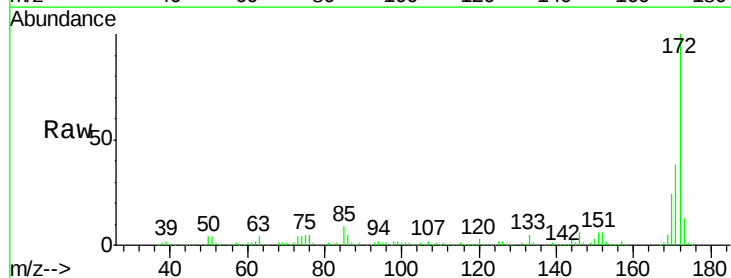
RT: 13.73 min Scan# 1709

Delta R.T. -0.00 min

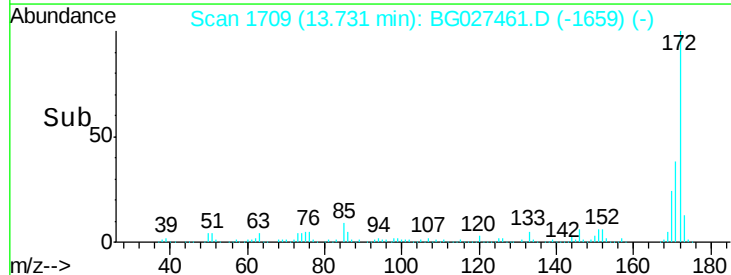
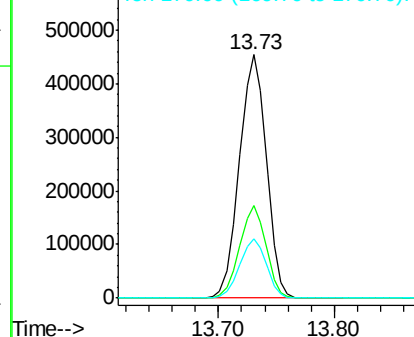
Lab File: BG027461.D

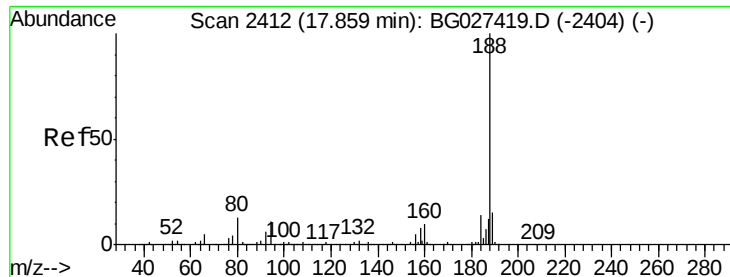
Acq: 16 Jun 2017 3:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 732848 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 38.2  | 32.2  | 48.2   |
| 170       | 24.1  | 21.8  | 32.6   |



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.86 min Scan# 2411

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

Instrument :

BNA\_G

ClientSampleId :

SOIL-ROAD-COMP

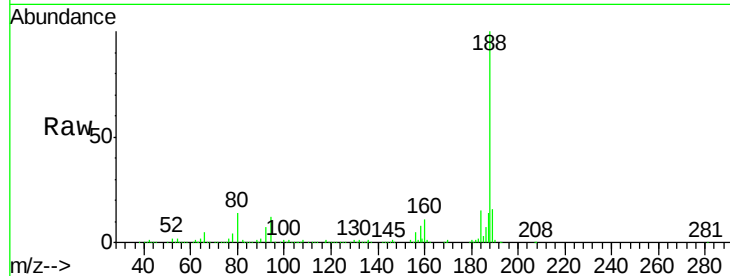
Tgt Ion:188 Resp: 330064

Ion Ratio Lower Upper

188 100

94 11.5 5.8 8.8#

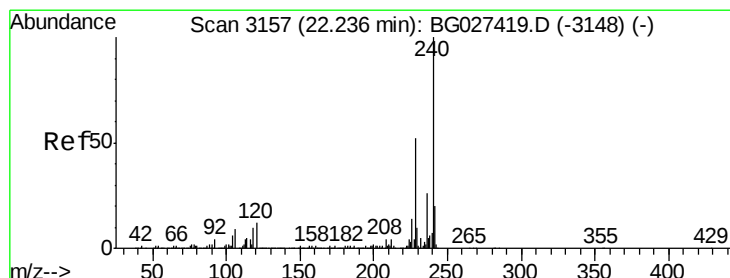
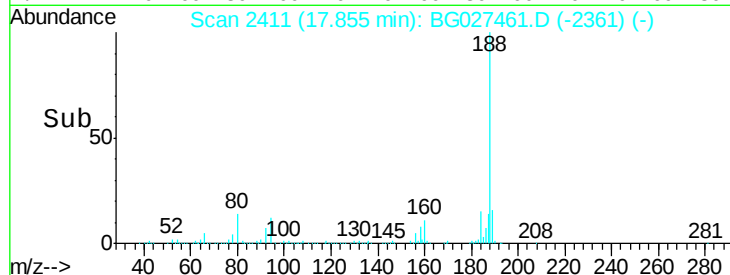
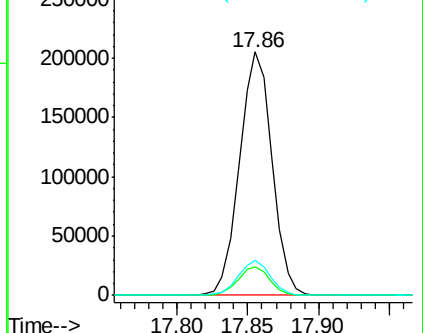
80 14.5 7.5 11.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.23 min Scan# 3156

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

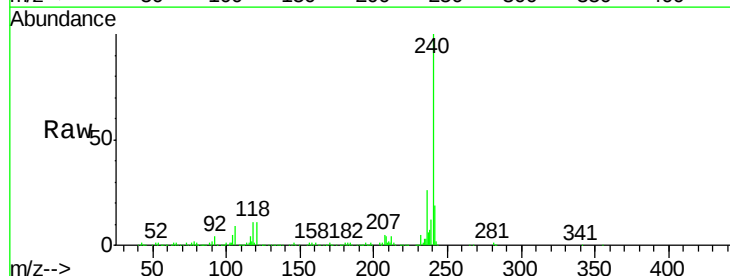
Tgt Ion:240 Resp: 388536

Ion Ratio Lower Upper

240 100

120 11.2 5.7 8.5#

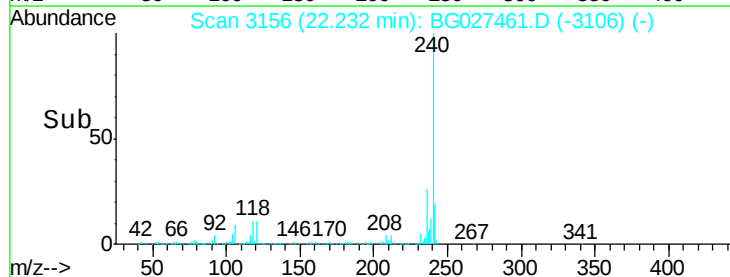
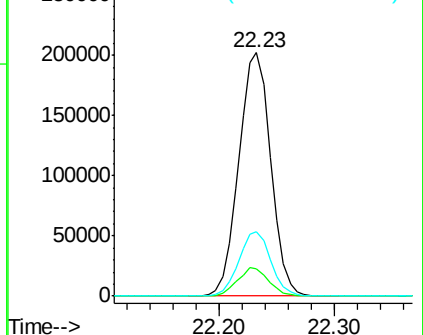
236 26.3 22.2 33.4

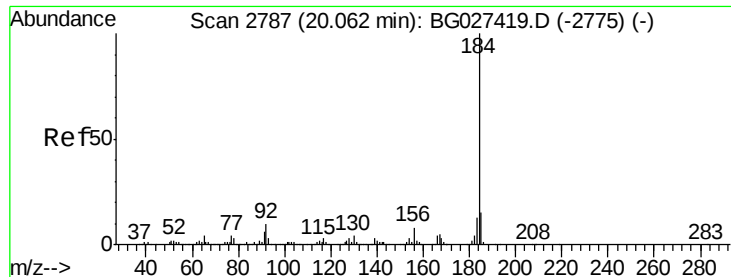


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 10.337 ng

RT: 20.06 min Scan# 2786

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

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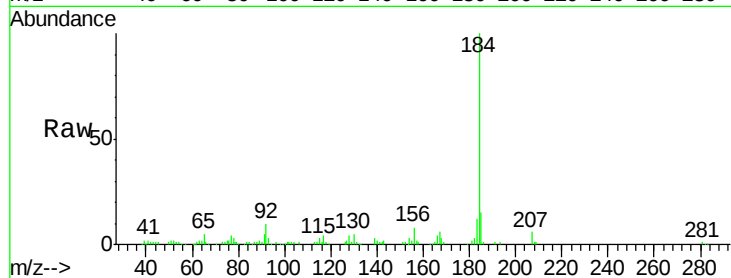
Tgt Ion:184 Resp: 88061

Ion Ratio Lower Upper

184 100

185 14.8 13.0 19.6

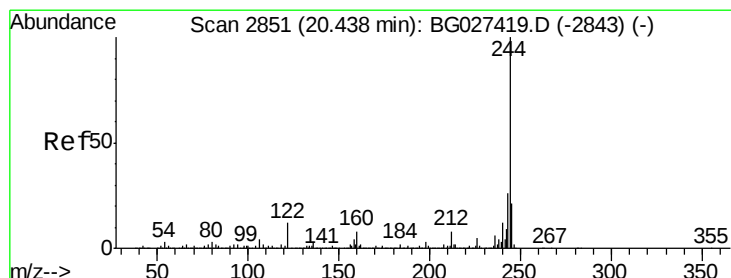
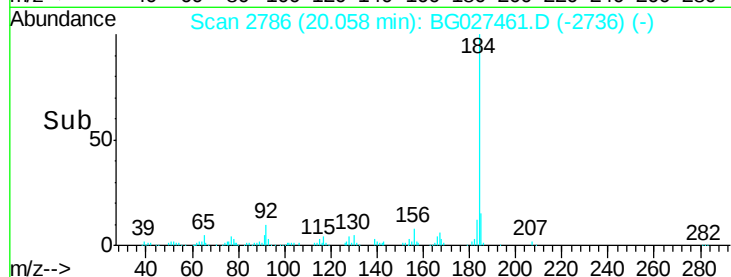
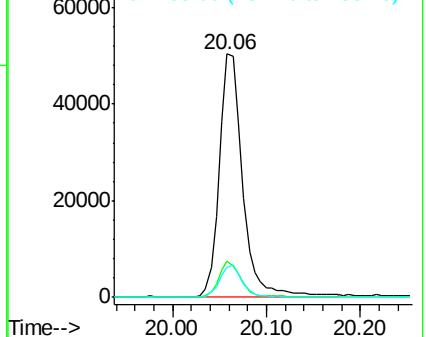
183 12.4 11.0 16.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 115.291 ng

RT: 20.43 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BG027461.D

Acq: 16 Jun 2017 3:38

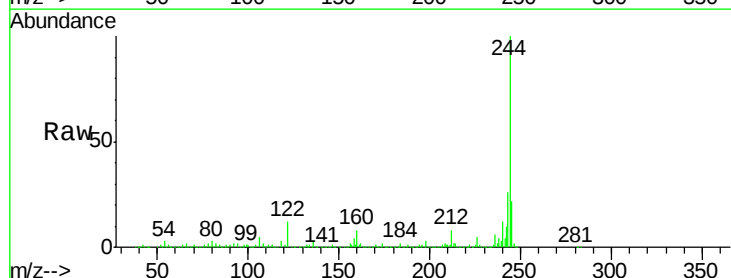
Tgt Ion:244 Resp: 1747739

Ion Ratio Lower Upper

244 100

212 8.4 10.0 15.0#

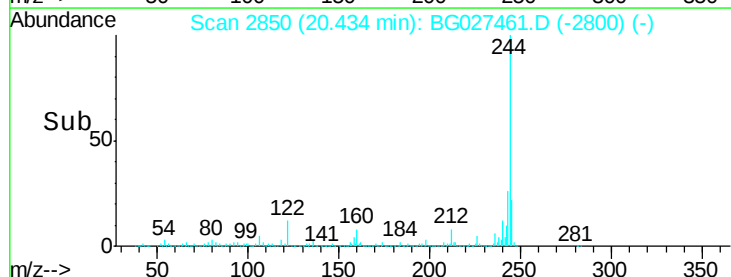
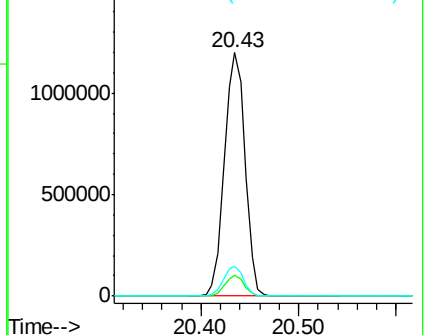
122 12.3 8.6 12.8

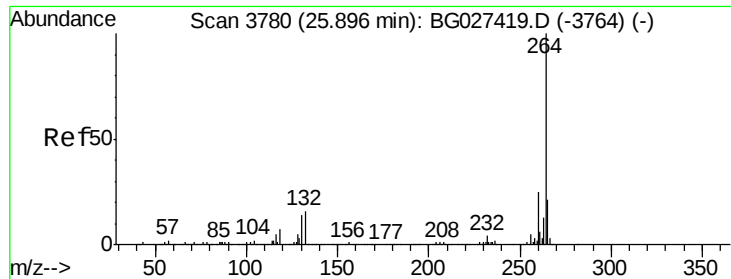


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.89 min Scan# 3778  
Delta R.T. -0.01 min  
Lab File: BG027461.D  
Acq: 16 Jun 2017 3:38

Instrument :  
BNA\_G  
ClientSampleId :  
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Tgt Ion: 264 Resp: 371393  
Ion Ratio Lower Upper  
264 100  
260 23.9 21.8 32.8  
265 22.0 18.2 27.4

