

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG090916\  
 Data File : BG023978.D  
 Acq On : 9 Sep 2016 17:40  
 Operator : UM/SJ  
 Sample : H4715-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGS

Quant Time: Sep 09 18:16:57 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 09 16:25:57 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.06  | 152  | 45891    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.90 | 136  | 222927   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.73 | 164  | 178158   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.50 | 188  | 482574   | 20.00  | ng    | 0.01     |
| 75) Chrysene-d12            | 21.81 | 240  | 435466   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 25.16 | 264  | 400698   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.61  | 112  | 341337   | 130.59 | ng    | 0.00     |
| 7) Phenol-d6                | 7.23  | 99   | 499436   | 124.13 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.24  | 82   | 435087   | 87.13  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 415107   | 129.32 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.35 | 172  | 996251   | 80.17  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.11 | 244  | 1965989  | 102.82 | ng    | 0.02     |

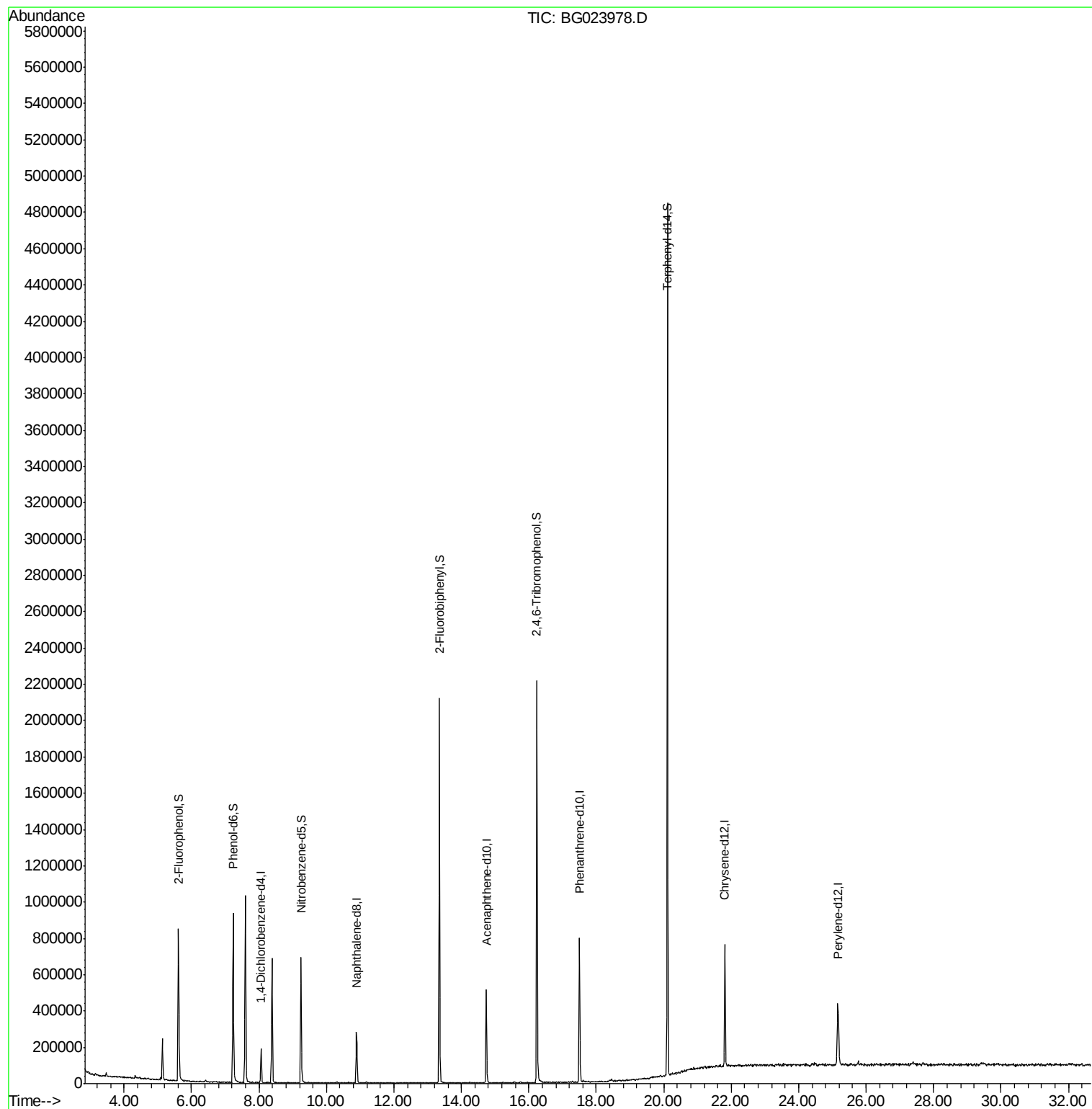
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

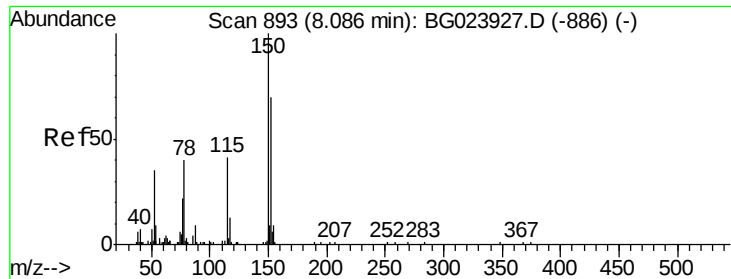
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 09 16:25:57 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.06 min Scan# 889

Delta R.T. -0.00 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

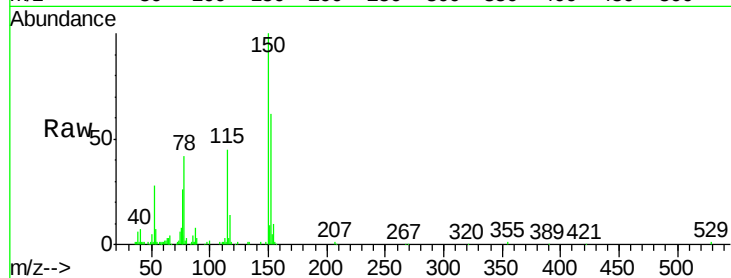
Tgt Ion:152 Resp: 45891

Ion Ratio Lower Upper

152 100

150 161.3 144.7 217.1

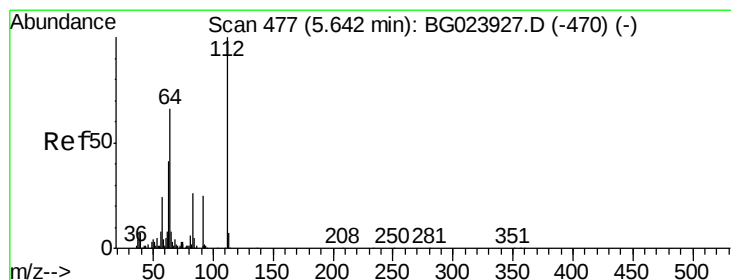
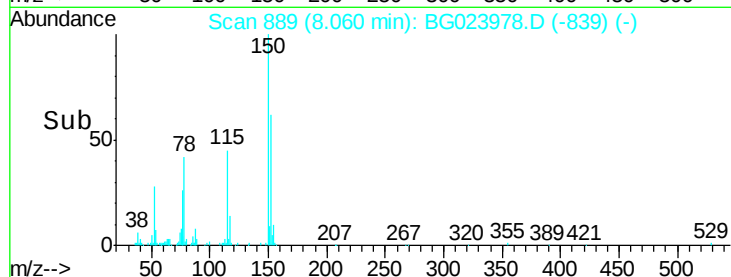
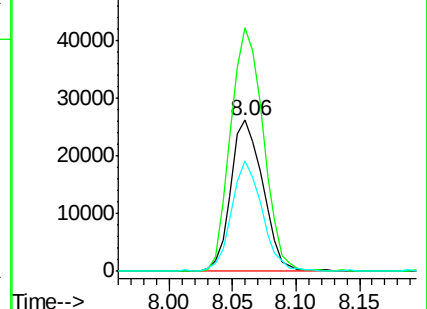
115 73.3 64.0 96.0



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: 130.59 ng

RT: 5.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

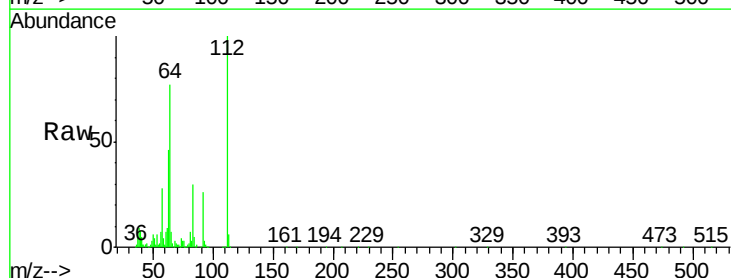
Tgt Ion:112 Resp: 341337

Ion Ratio Lower Upper

112 100

64 76.9 59.0 88.4

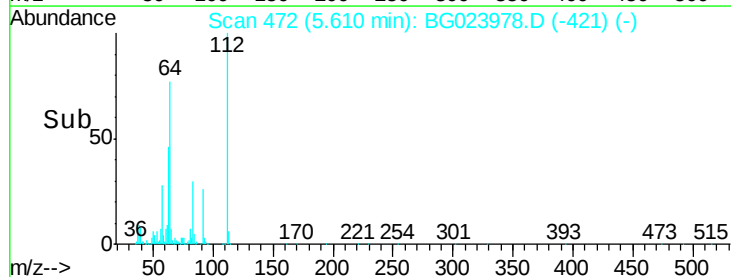
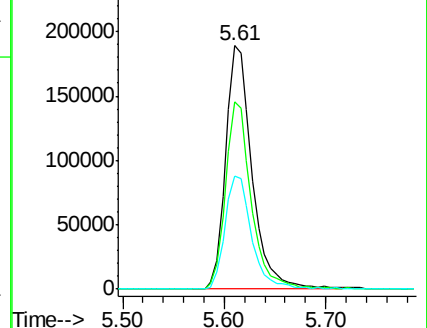
63 46.4 37.8 56.8

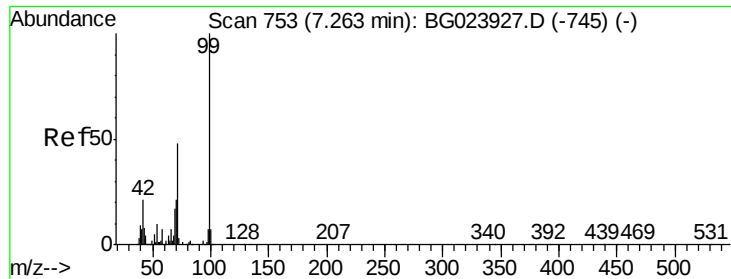


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 124.13 ng

RT: 7.23 min Scan# 748

Delta R.T. -0.00 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

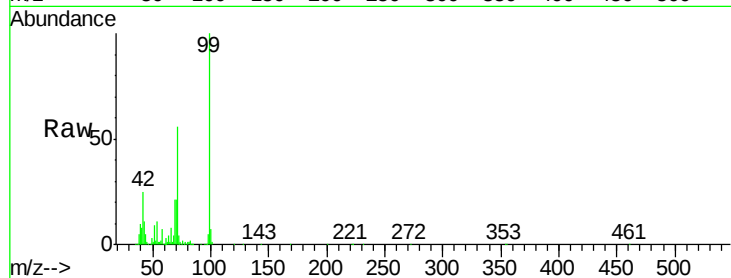
Tgt Ion: 99 Resp: 499436

Ion Ratio Lower Upper

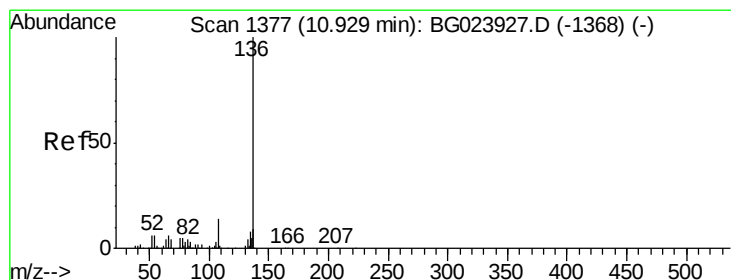
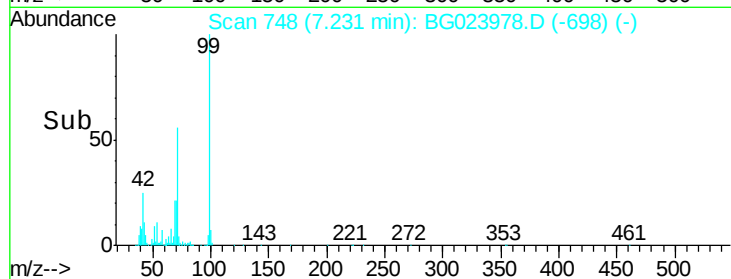
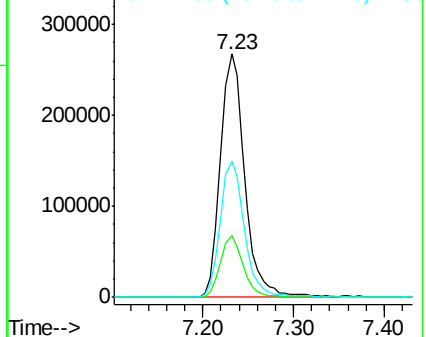
99 100

42 25.4 17.8 26.6

71 56.1 41.5 62.3



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: 20.00 ng

RT: 10.90 min Scan# 1372

Delta R.T. 0.00 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

Tgt Ion: 136 Resp: 222927

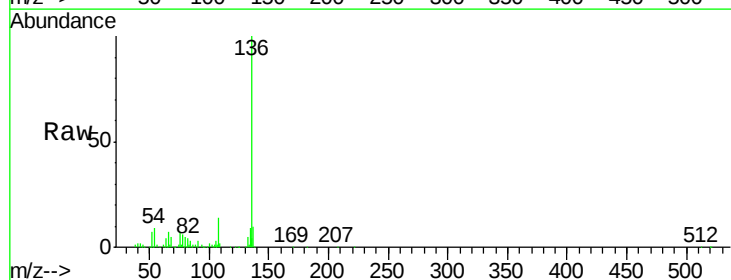
Ion Ratio Lower Upper

136 100

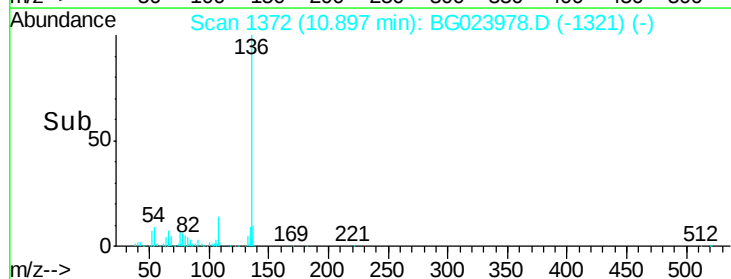
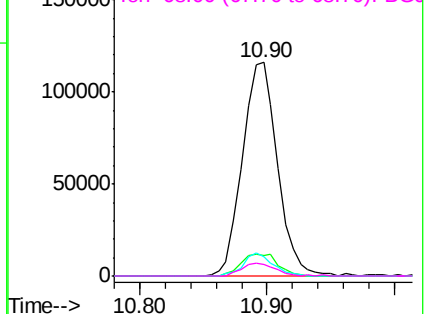
137 9.6 9.6 14.4

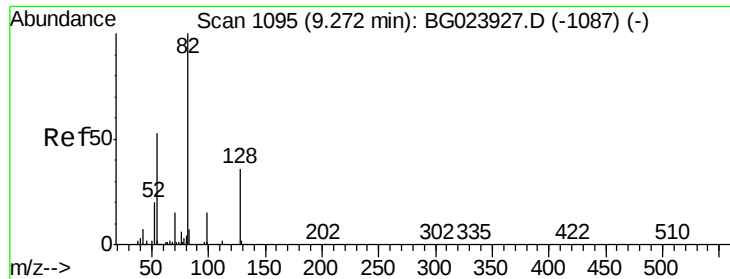
54 8.9 7.3 10.9

68 5.3 5.3 7.9



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

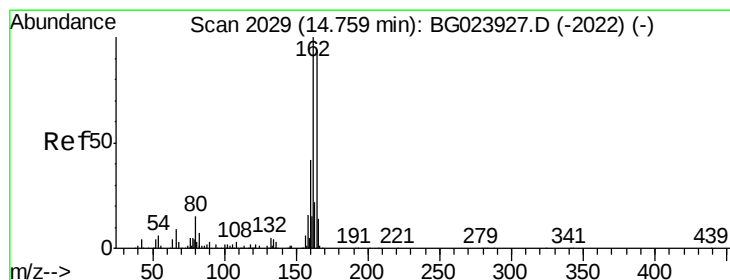
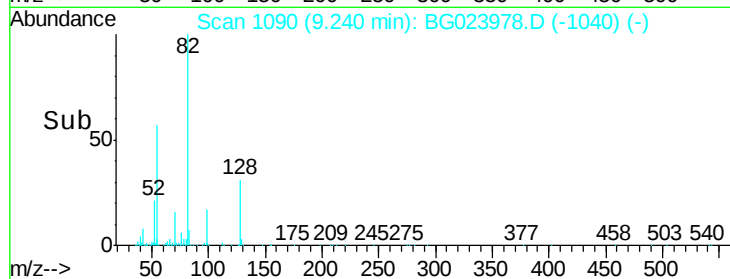
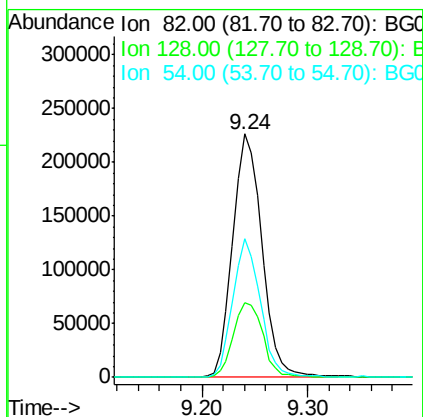
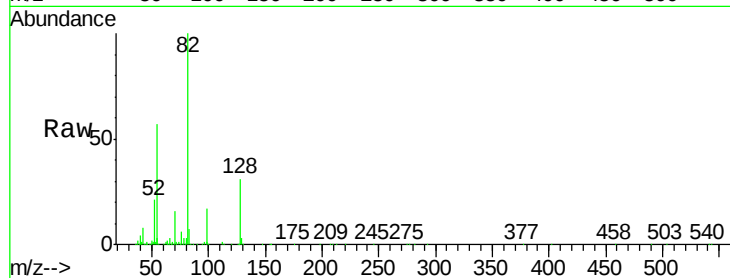




#23  
Nitrobenzene-d5  
Concen: 87.13 ng  
RT: 9.24 min Scan# 1090  
Delta R.T. -0.00 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

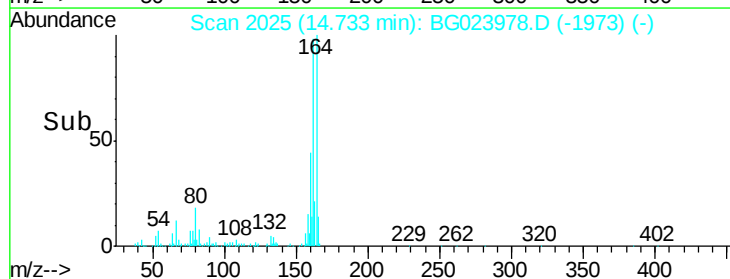
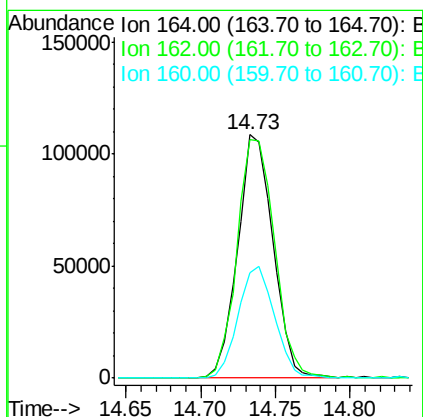
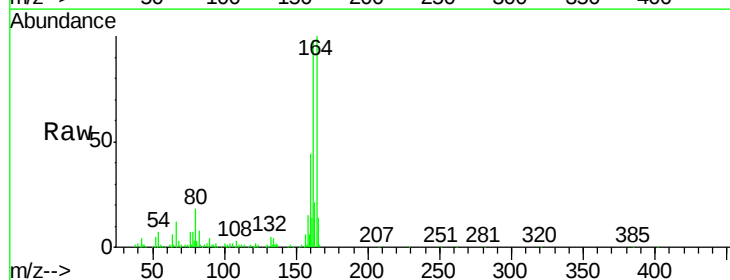
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGS

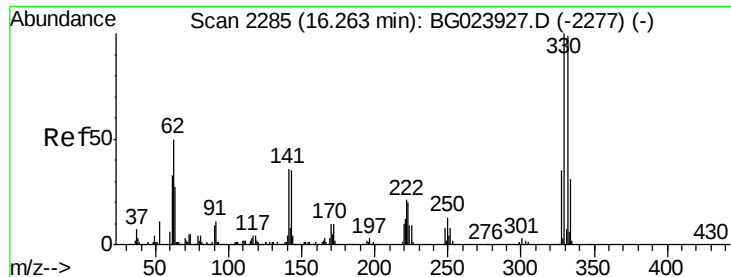
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 30.7  | 24.4  | 36.6  |
| 54      | 56.9  | 41.4  | 62.0  |



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.73 min Scan# 2025  
Delta R.T. 0.01 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 97.9  | 87.7  | 131.5 |
| 160     | 43.5  | 37.2  | 55.8  |

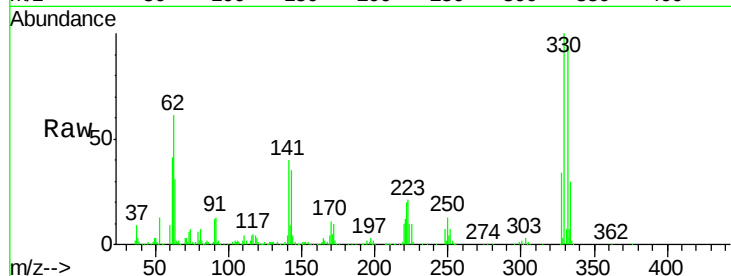




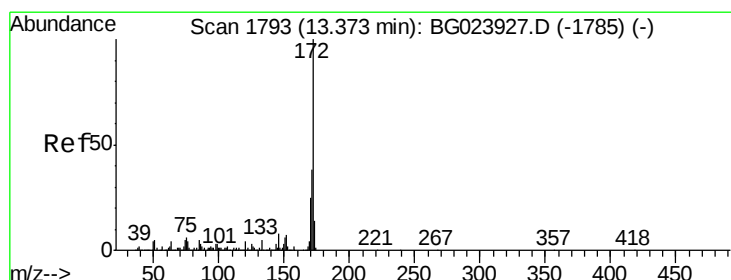
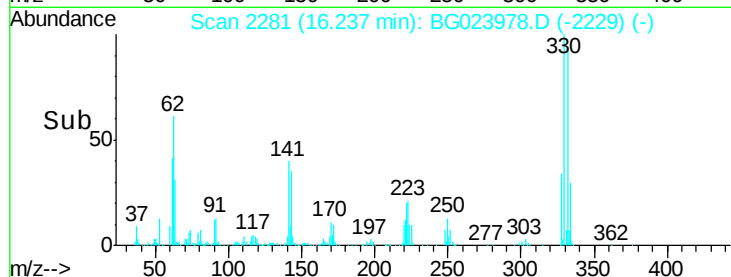
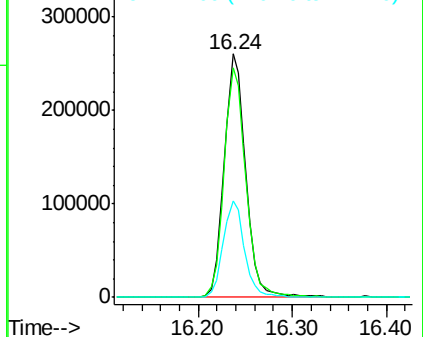
#41  
2,4,6-Tribromophenol  
Concen: 129.32 ng  
RT: 16.24 min Scan# 2281  
Delta R.T. 0.01 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGS

Tgt Ion:330 Resp: 415107  
Ion Ratio Lower Upper  
330 100  
332 95.6 77.4 116.2  
141 39.6 31.7 47.5

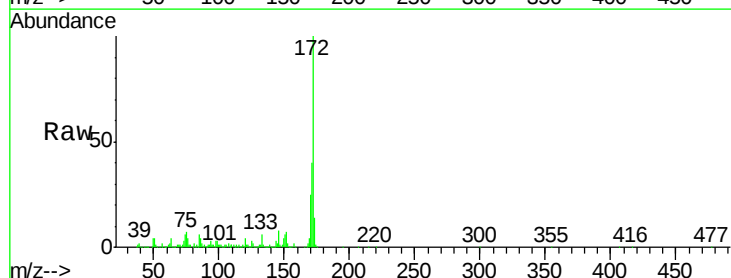


Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

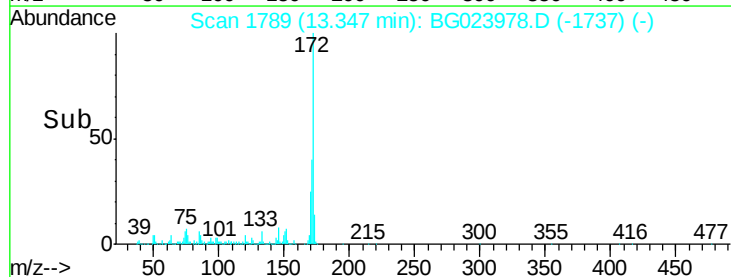
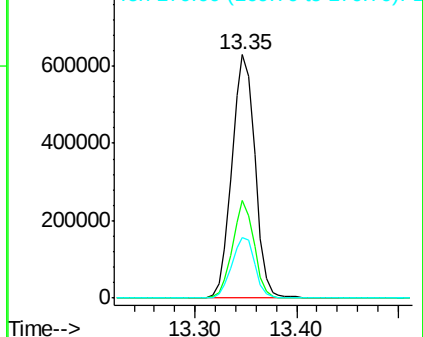


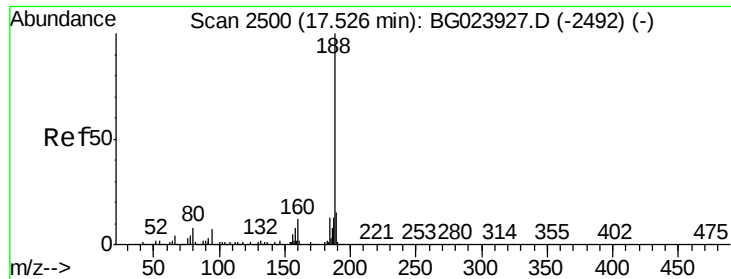
#44  
2-Fluorobiphenyl  
Concen: 80.17 ng  
RT: 13.35 min Scan# 1789  
Delta R.T. 0.01 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

Tgt Ion:172 Resp: 996251  
Ion Ratio Lower Upper  
172 100  
171 39.9 31.6 47.4  
170 24.9 21.3 31.9



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

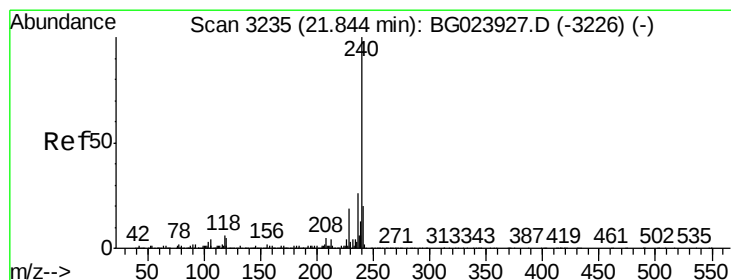
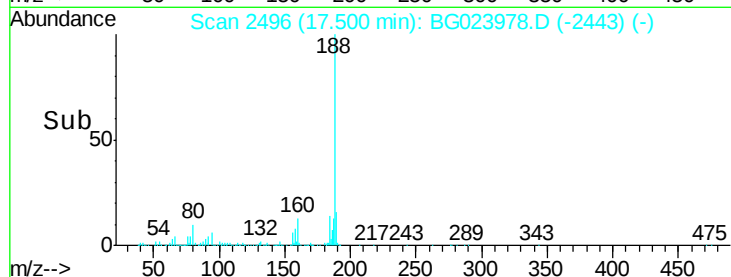
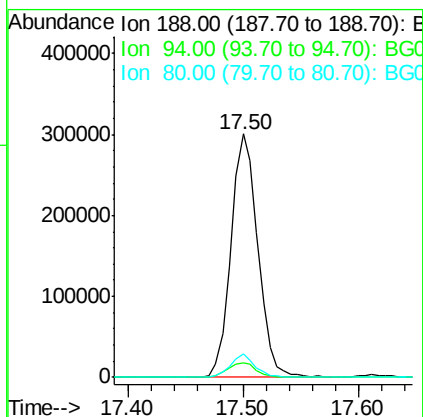
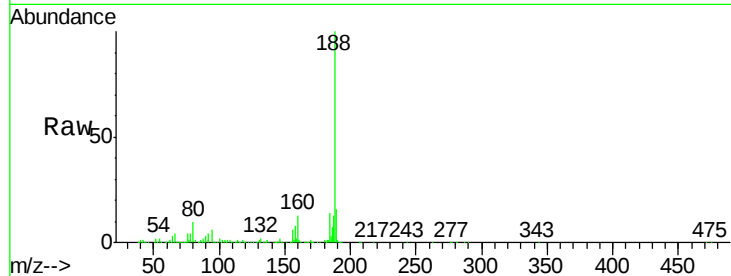




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.50 min Scan# 2496  
Delta R.T. 0.01 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

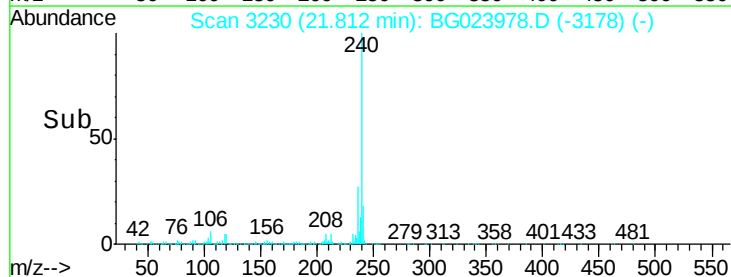
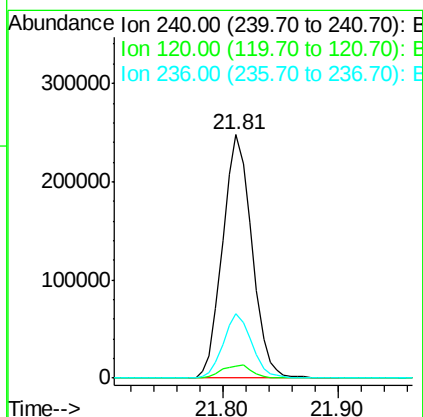
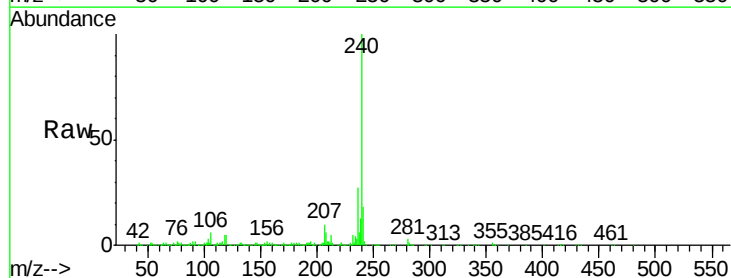
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGS

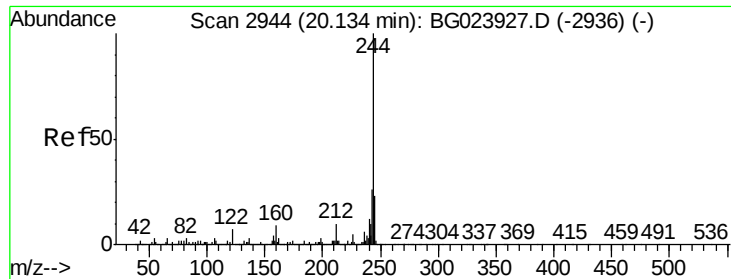
Tgt Ion:188 Resp: 482574  
Ion Ratio Lower Upper  
188 100  
94 6.1 5.2 7.8  
80 9.7 7.2 10.8



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.81 min Scan# 3230  
Delta R.T. 0.01 min  
Lab File: BG023978.D  
Acq: 9 Sep 2016 17:40

Tgt Ion:240 Resp: 435466  
Ion Ratio Lower Upper  
240 100  
120 5.1 4.1 6.1  
236 26.6 21.1 31.7





#78

Terphenyl-d14

Concen: 102.82 ng

RT: 20.11 min Scan# 2941

Delta R.T. 0.02 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

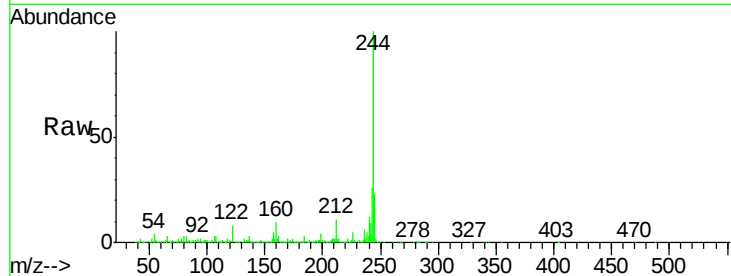
Tgt Ion:244 Resp: 1965989

Ion Ratio Lower Upper

244 100

212 10.7 10.8 16.2#

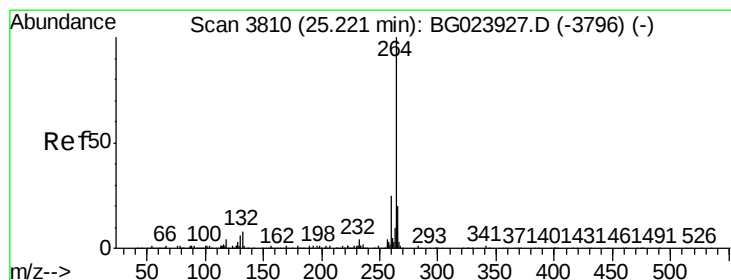
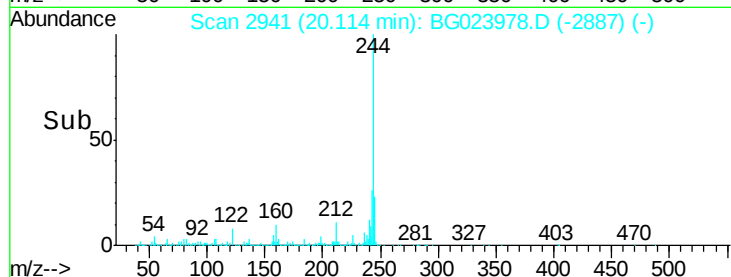
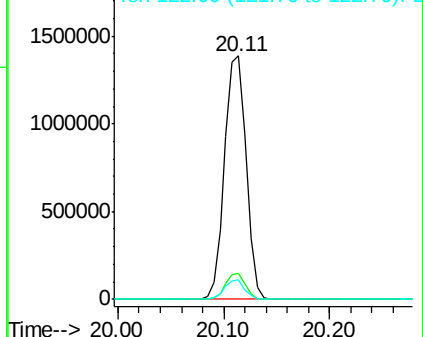
122 7.8 8.0 12.0#



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: 20.00 ng

RT: 25.16 min Scan# 3800

Delta R.T. -0.01 min

Lab File: BG023978.D

Acq: 9 Sep 2016 17:40

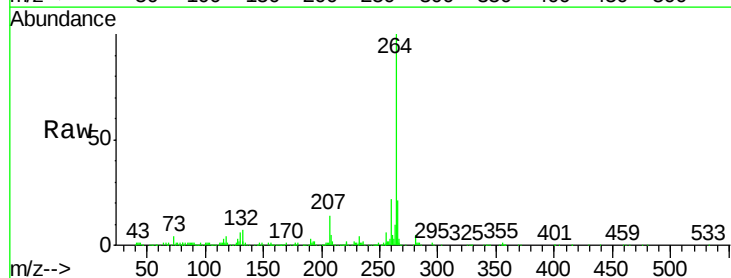
Tgt Ion:264 Resp: 400698

Ion Ratio Lower Upper

264 100

260 21.6 18.4 27.6

265 21.3 18.9 28.3



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

