

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061819\  
 Data File : BG041315.D  
 Acq On : 19 Jun 2019 3:36  
 Operator : HP/JU  
 Sample : K3389-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 GS-SOIL-PILE

Quant Time: Jun 19 07:39:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 17 14:58:02 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.08  | 152  | 35718    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.90 | 136  | 133077   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.71 | 164  | 96993    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.46 | 188  | 247785   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.73 | 240  | 262968   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 25.05 | 264  | 268516   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.62  | 112  | 249930   | 128.57 | ng    | 0.00     |
| 7) Phenol-d6                | 7.23  | 99   | 306901   | 108.92 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.26  | 82   | 304613   | 96.27  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.20 | 330  | 213896   | 143.65 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.34 | 172  | 695376   | 97.44  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.06 | 244  | 1285561  | 96.88  | ng    | 0.00     |

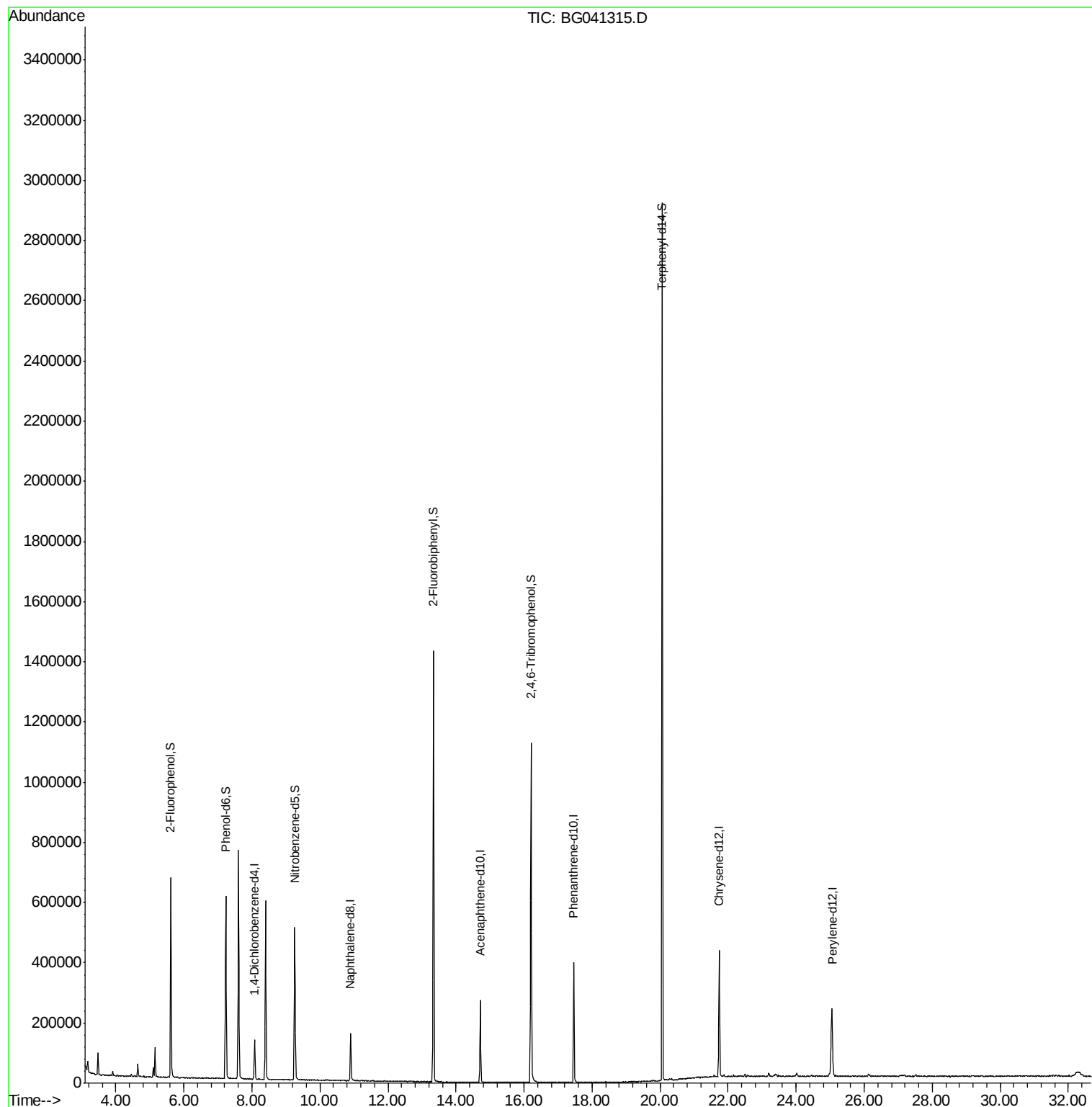
Target Compounds Qvalue

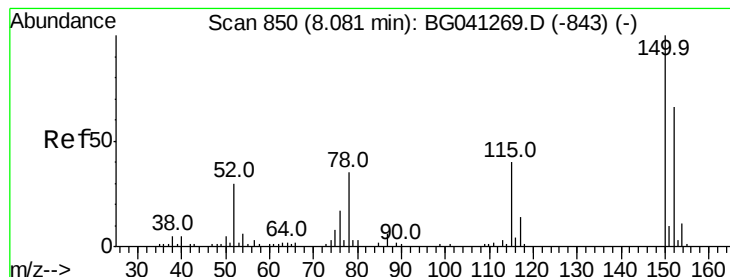
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 17 14:58:02 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.08 min Scan# 849

Delta R.T. -0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Instrument :

BNA\_G

ClientSampleId :

GS-SOIL-PILE

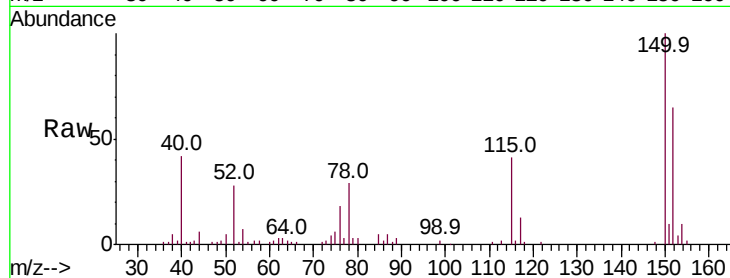
Tot Ion:152 Resp: 35718

Ion Ratio Lower Upper

152 100

150 153.5 120.6 181.0

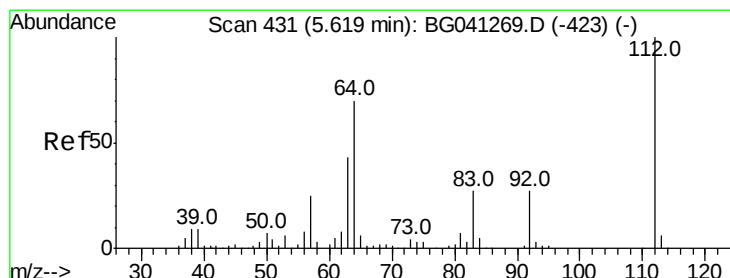
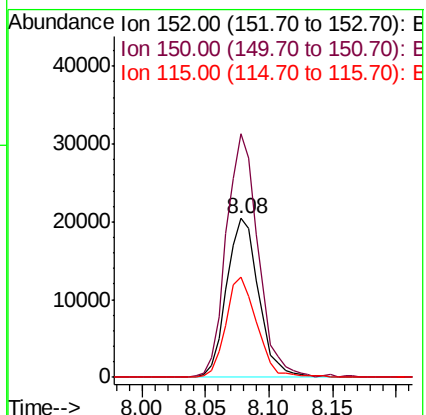
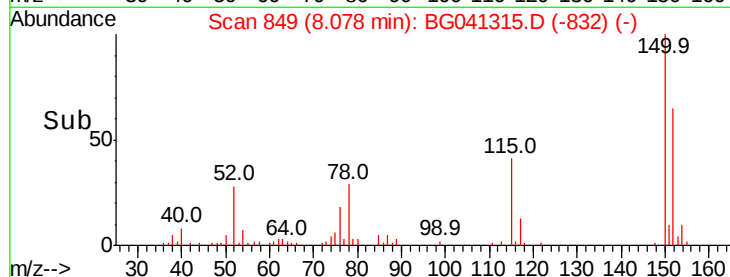
115 63.3 47.9 71.9



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: 128.570 ng

RT: 5.62 min Scan# 430

Delta R.T. -0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

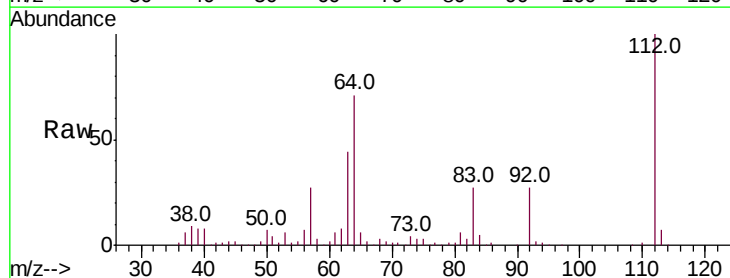
Tgt Ion:112 Resp: 249930

Ion Ratio Lower Upper

112 100

64 71.4 55.9 83.9

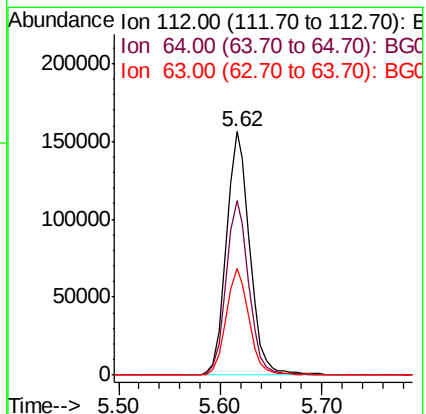
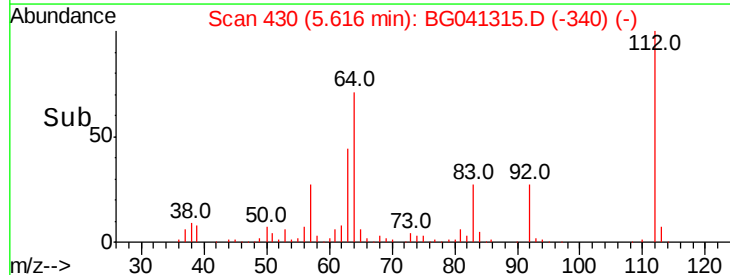
63 43.9 34.6 51.8

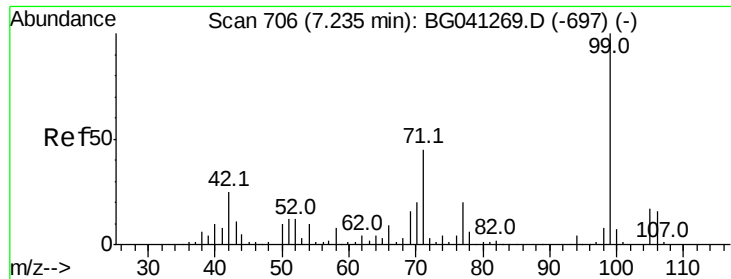


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 108.917 ng

RT: 7.23 min Scan# 705

Delta R.T. -0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Instrument :

BNA\_G

ClientSampleId :

GS-SOIL-PILE

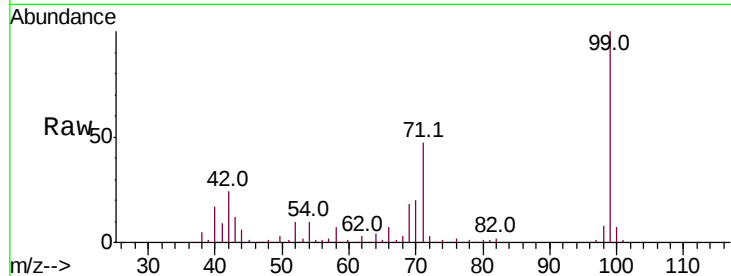
Tot Ion: 99 Resp: 306901

Ion Ratio Lower Upper

99 100

42 24.0 19.9 29.9

71 47.3 36.4 54.6

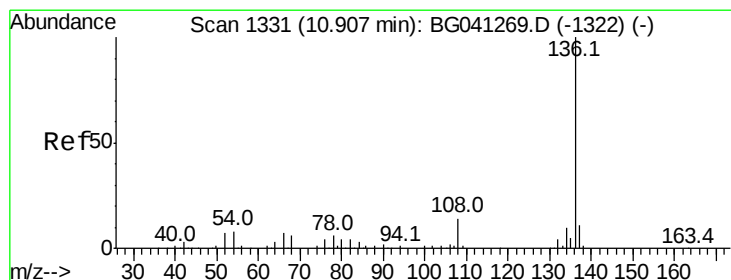
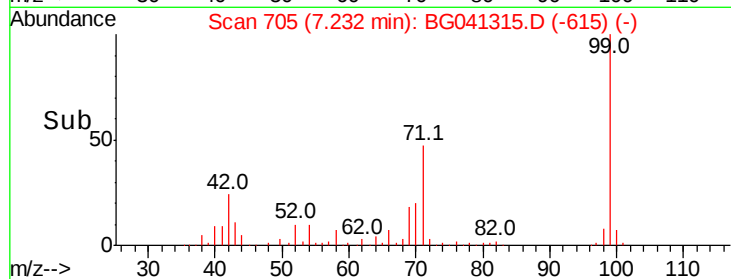
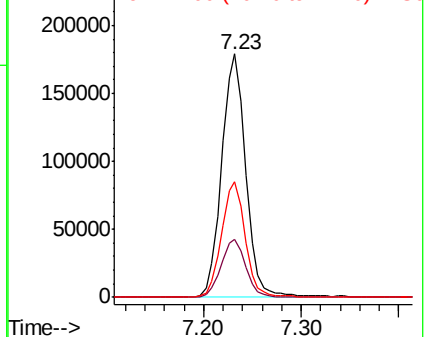


Abundance

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: 10.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Tgt Ion: 136 Resp: 133077

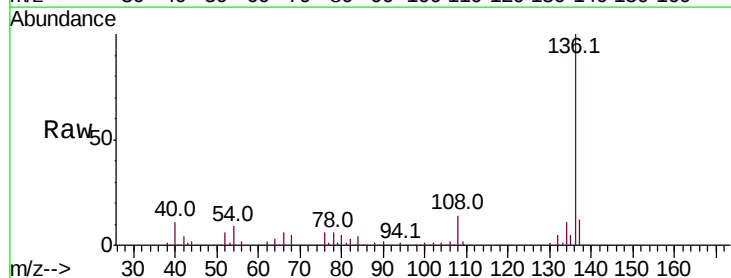
Ion Ratio Lower Upper

136 100

137 11.7 8.8 13.2

54 9.0 6.4 9.6

68 4.9 4.8 7.2



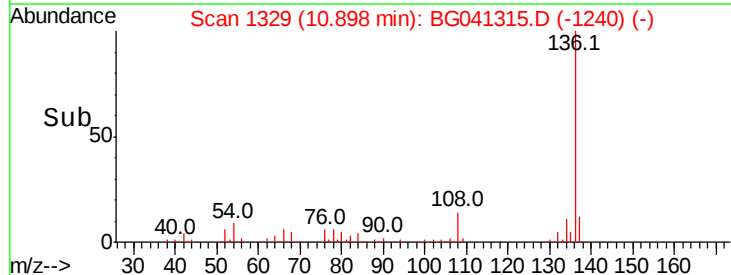
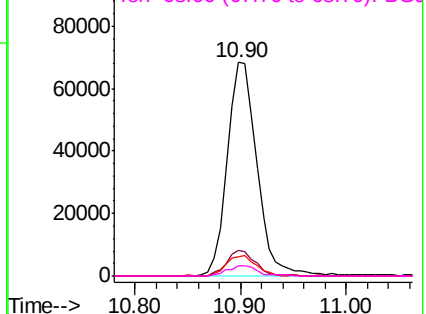
Abundance

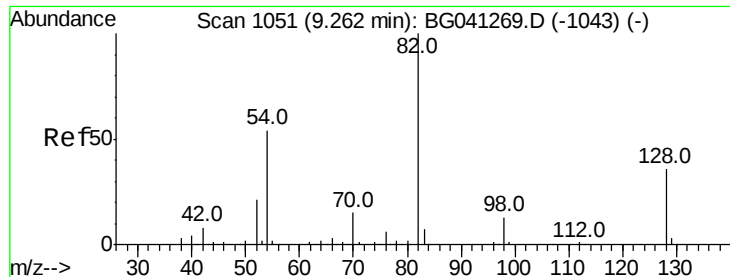
Ion 136.00 (135.70 to 136.70): BGC

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

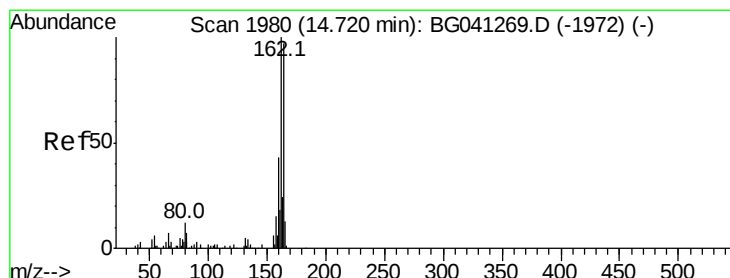
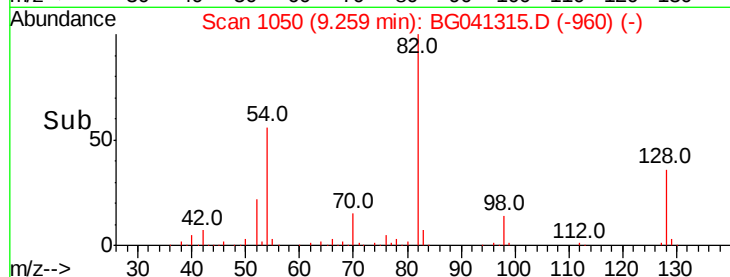
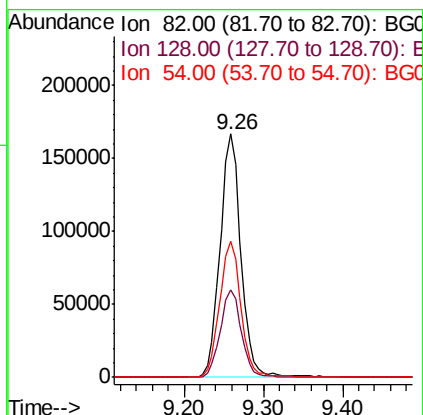
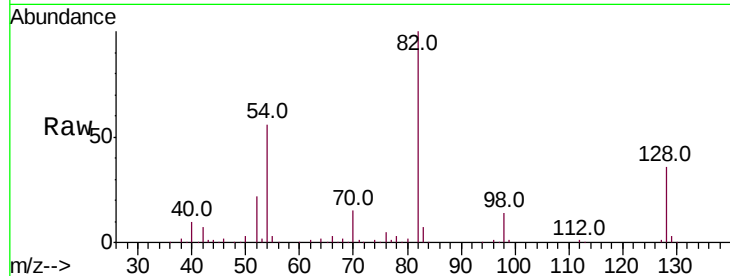




#23  
 Nitrobenzene-d5  
 Concen: 96.267 ng  
 RT: 9.26 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: BG041315.D  
 Acq: 19 Jun 2019 3:36

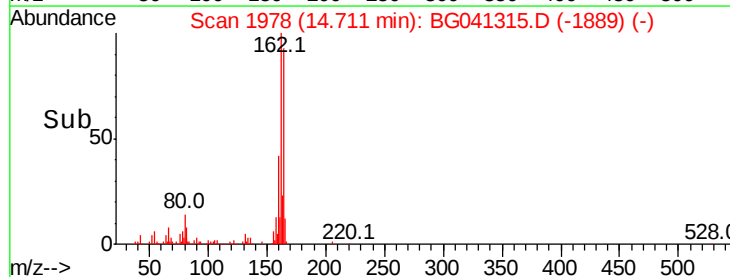
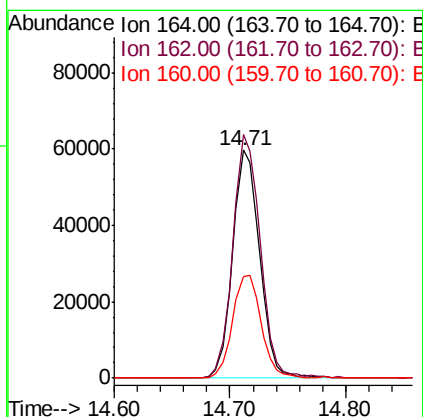
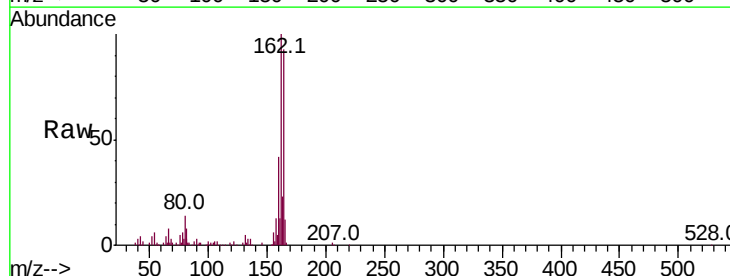
Instrument :  
 BNA\_G  
 ClientSampleId :  
 GS-SOIL-PILE

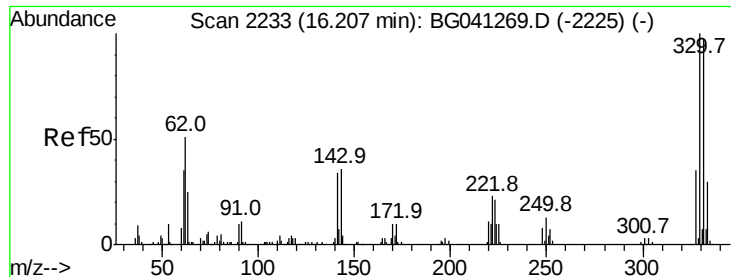
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 35.8  | 29.2  | 43.8  |
| 54      | 55.9  | 43.4  | 65.0  |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.71 min Scan# 1978  
 Delta R.T. -0.01 min  
 Lab File: BG041315.D  
 Acq: 19 Jun 2019 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.0 | 82.8  | 124.2 |
| 160     | 44.8  | 35.8  | 53.8  |

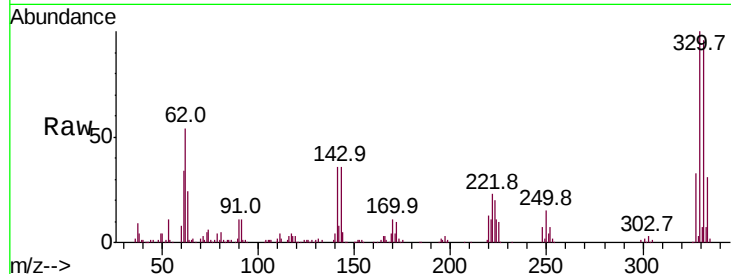




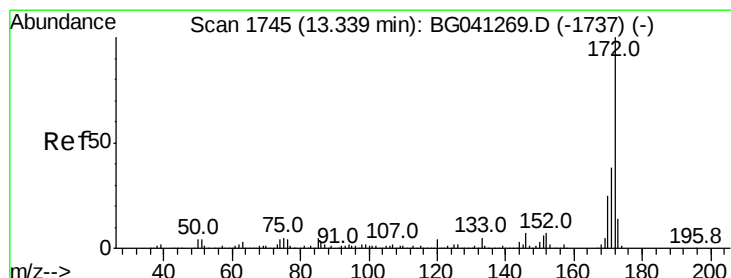
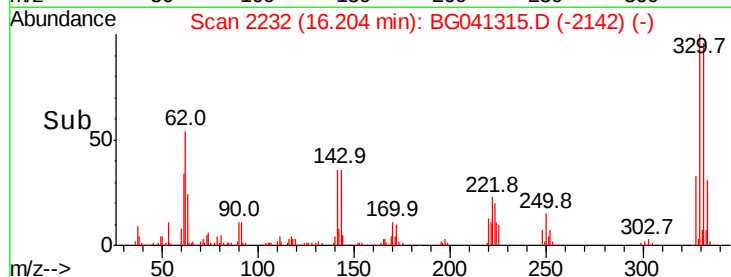
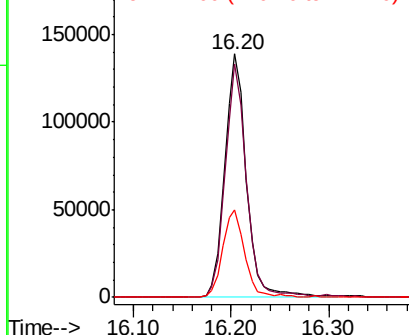
#42  
 2,4,6-Tribromophenol  
 Concen: 143.645 ng  
 RT: 16.20 min Scan# 2232  
 Delta R.T. -0.00 min  
 Lab File: BG041315.D  
 Acq: 19 Jun 2019 3:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 GS-SOIL-PILE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.2  | 75.5  | 113.3 |
| 141     | 35.8  | 29.0  | 43.4  |

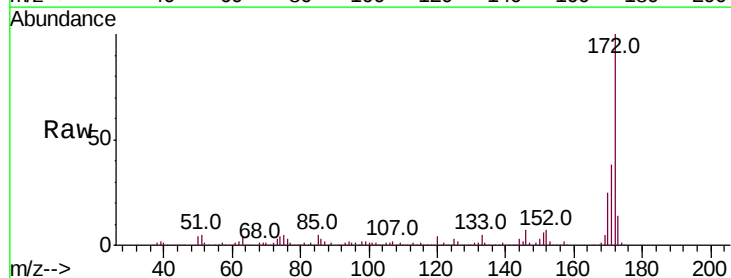


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

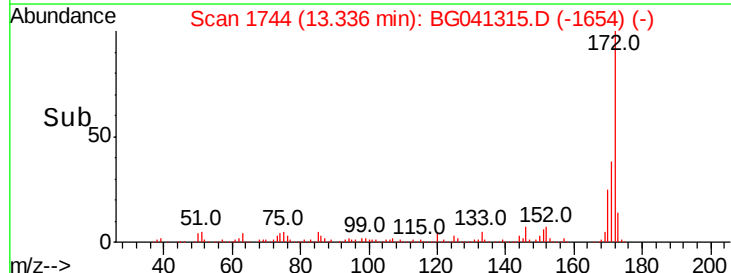
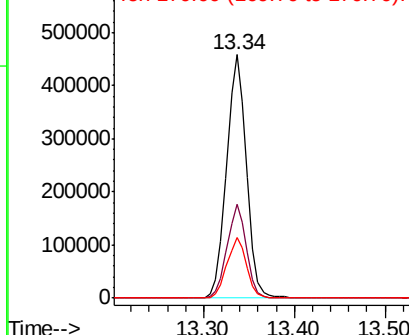


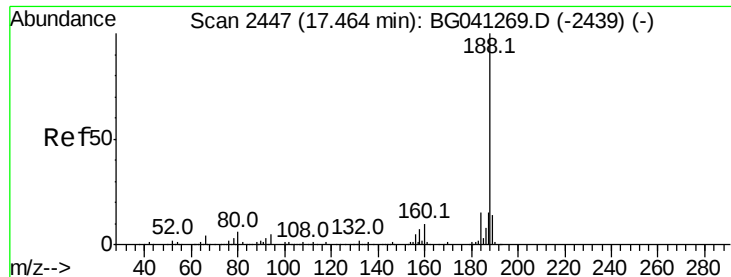
#45  
 2-Fluorobiphenyl  
 Concen: 97.443 ng  
 RT: 13.34 min Scan# 1744  
 Delta R.T. -0.00 min  
 Lab File: BG041315.D  
 Acq: 19 Jun 2019 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.3  | 30.0  | 45.0  |
| 170     | 24.8  | 19.8  | 29.6  |



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Instrument :

BNA\_G

ClientSampleId :

GS-SOIL-PILE

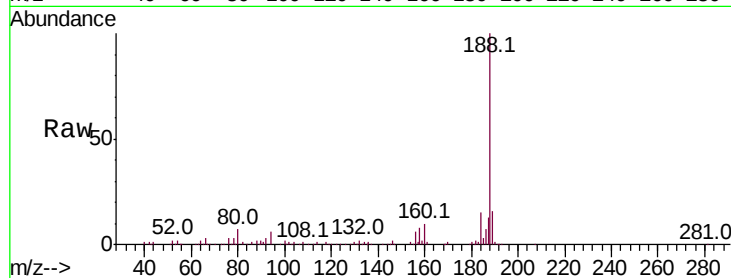
Tot Ion:188 Resp: 247785

Ion Ratio Lower Upper

188 100

94 5.8 3.6 5.4#

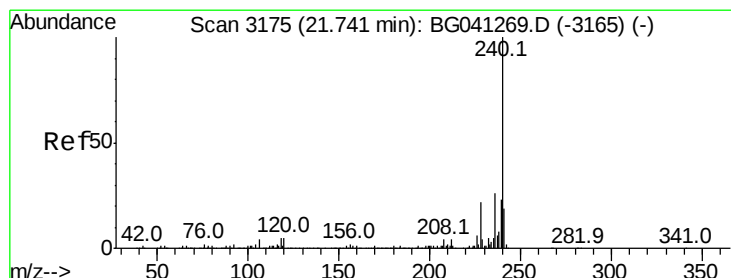
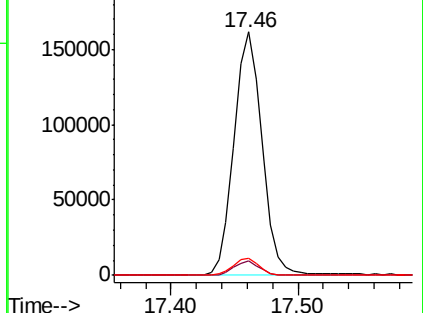
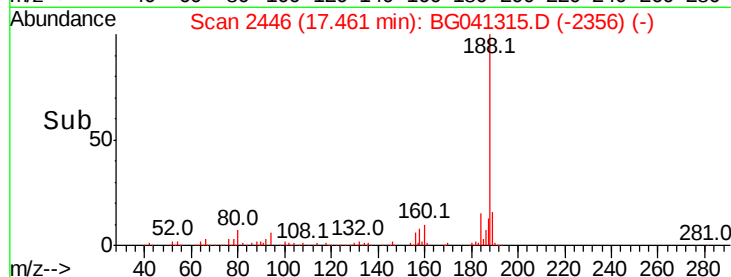
80 7.1 4.8 7.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

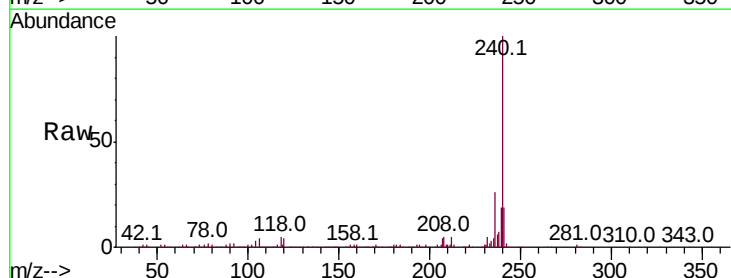
Tgt Ion:240 Resp: 262968

Ion Ratio Lower Upper

240 100

120 4.4 3.7 5.5

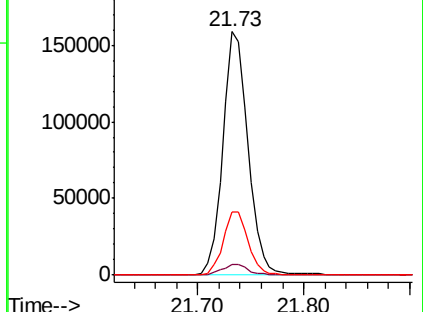
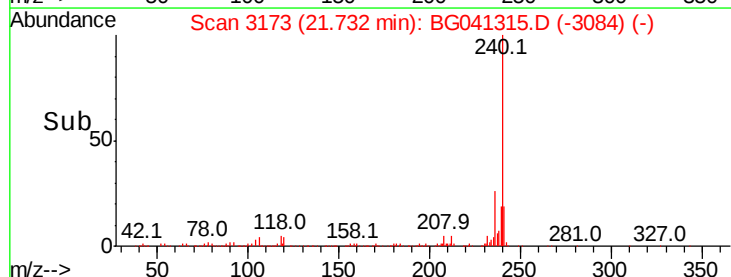
236 26.1 21.1 31.7

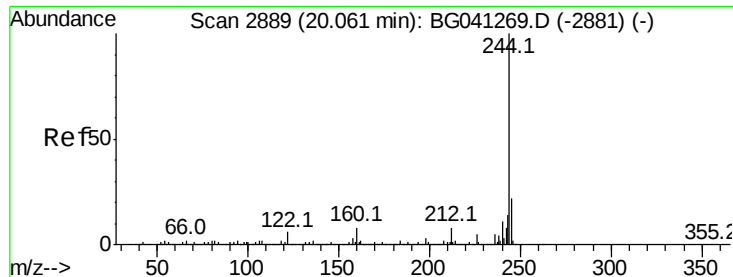


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 96.883 ng

RT: 20.06 min Scan# 2888

Delta R.T. -0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Instrument :

BNA\_G

ClientSampleId :

GS-SOIL-PILE

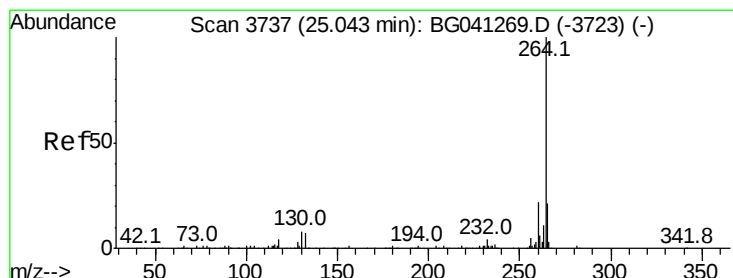
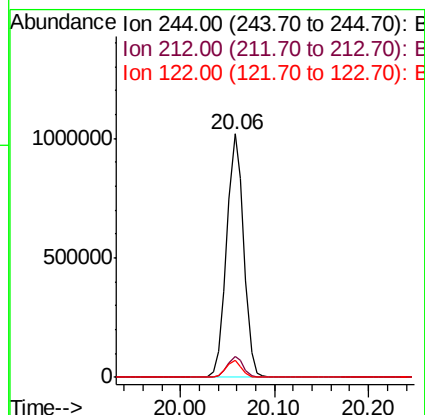
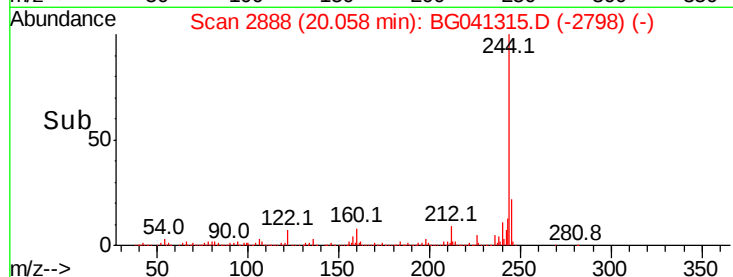
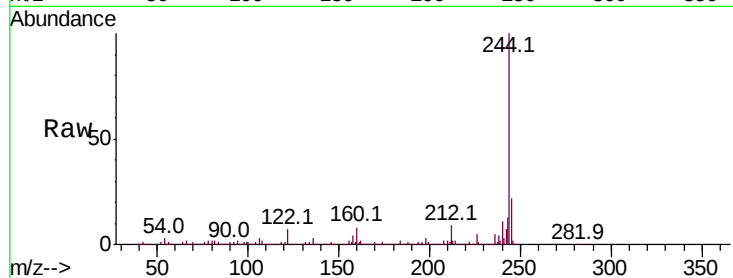
Tot Ion:244 Resp: 1285561

Ion Ratio Lower Upper

244 100

212 8.8 6.6 10.0

122 6.9 5.0 7.4



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.05 min Scan# 3737

Delta R.T. 0.00 min

Lab File: BG041315.D

Acq: 19 Jun 2019 3:36

Tgt Ion:264 Resp: 268516

Ion Ratio Lower Upper

264 100

260 23.1 17.4 26.2

265 21.5 17.2 25.8

