

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092118\  
 Data File : BG036883.D  
 Acq On : 22 Sep 2018 7:43  
 Operator : JU/SJ  
 Sample : J5021-04  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SOIL-A

Quant Time: Sep 24 04:02:48 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 20:07:11 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.05  | 152  | 39917    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.85 | 136  | 167285   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.67 | 164  | 115737   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.42 | 188  | 322115   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.68 | 240  | 352021   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 24.89 | 264  | 347478   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.62  | 112  | 258423   | 124.16 | ng    | 0.00     |
| 7) Phenol-d6                | 7.21  | 99   | 331597   | 102.97 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.21  | 82   | 268680   | 86.01  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.16 | 330  | 189235   | 136.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.29 | 172  | 632954   | 81.45  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.03 | 244  | 1291930  | 96.50  | ng    | 0.00     |

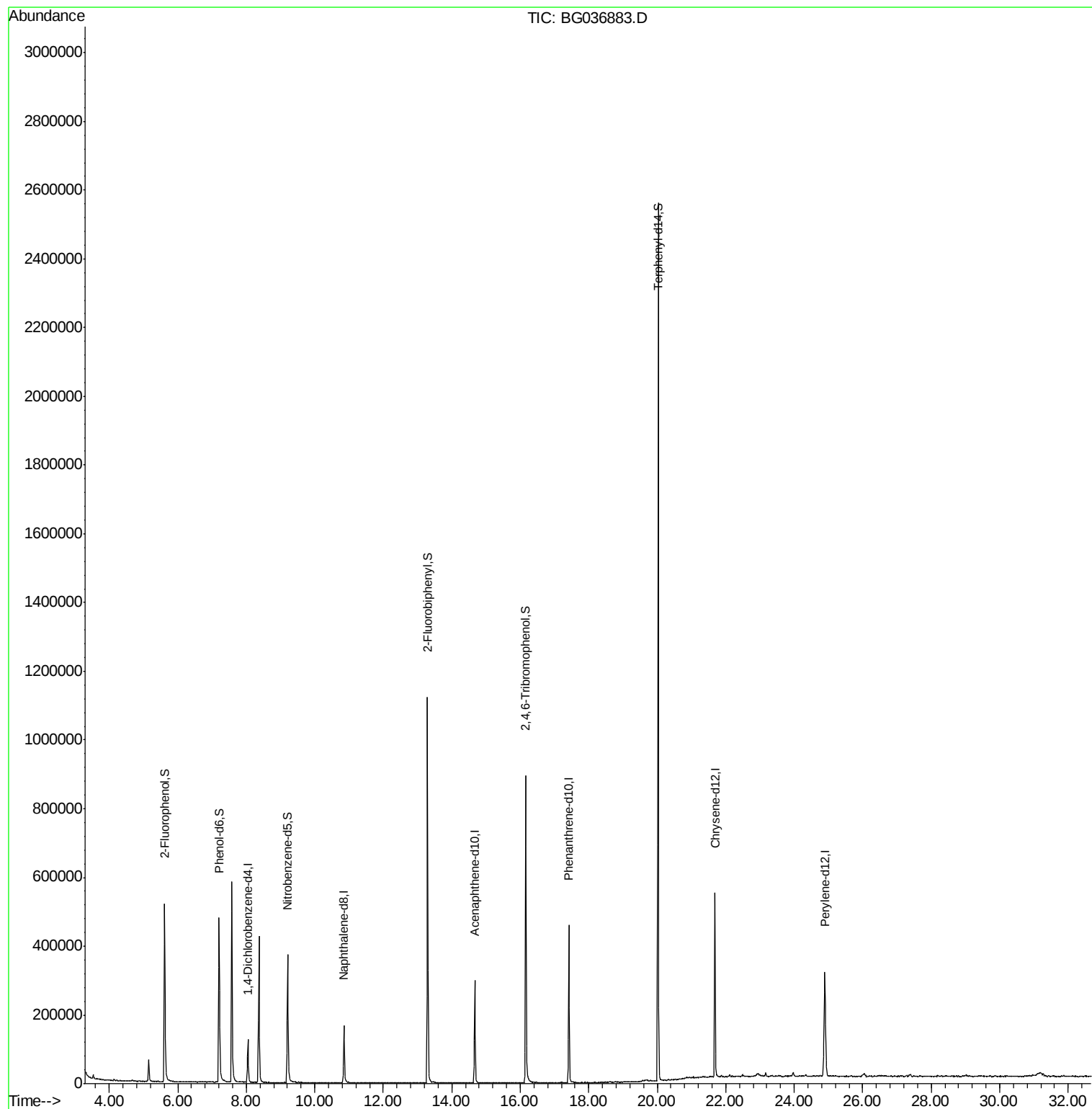
Target Compounds Qvalue

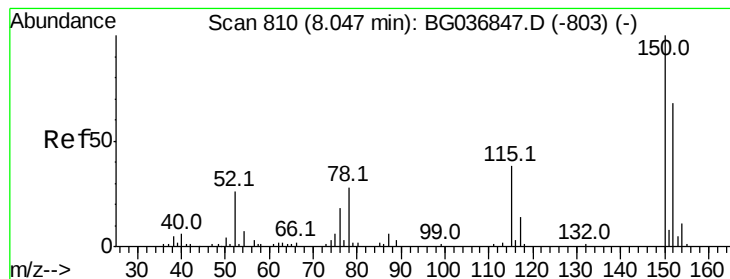
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.05 min Scan# 810

Delta R.T. 0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-A

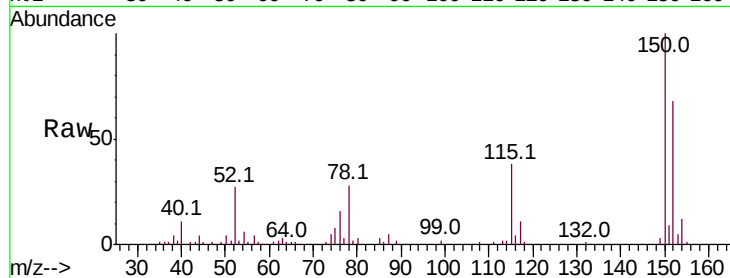
Tot Ion:152 Resp: 39917

Ion Ratio Lower Upper

152 100

150 147.8 119.5 179.3

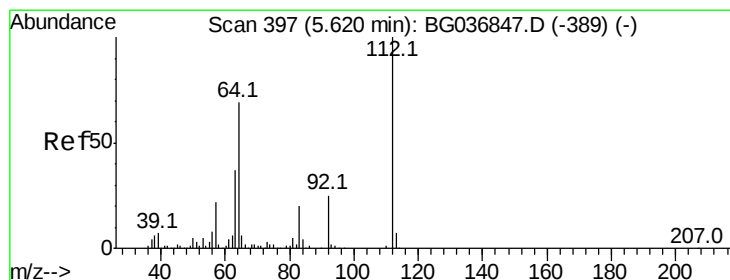
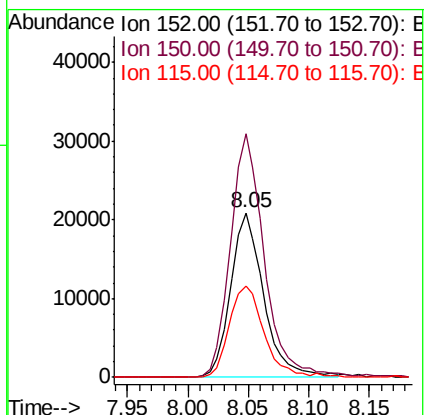
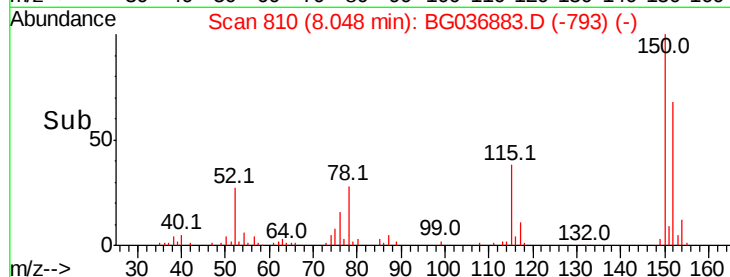
115 55.6 44.5 66.7



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: 124.157 ng

RT: 5.62 min Scan# 396

Delta R.T. -0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

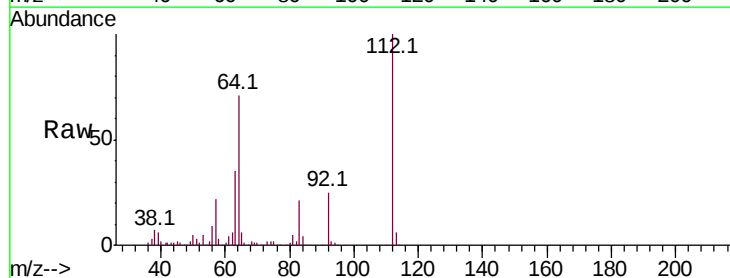
Tgt Ion:112 Resp: 258423

Ion Ratio Lower Upper

112 100

64 70.6 57.2 85.8

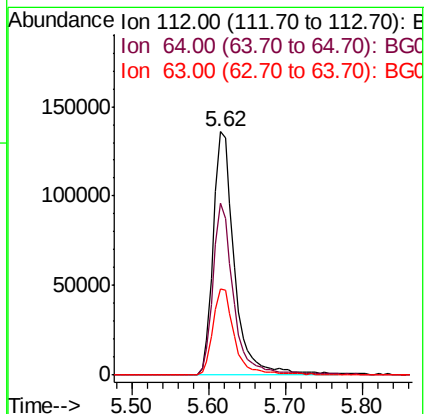
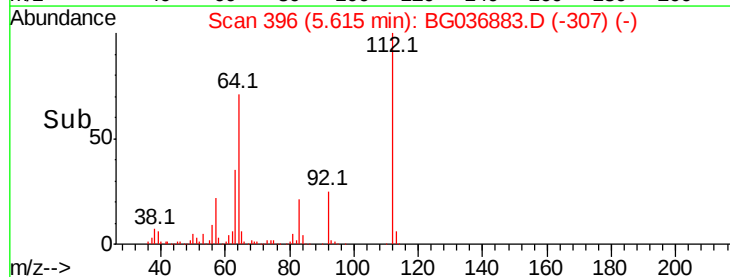
63 35.2 30.8 46.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 102.971 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-A

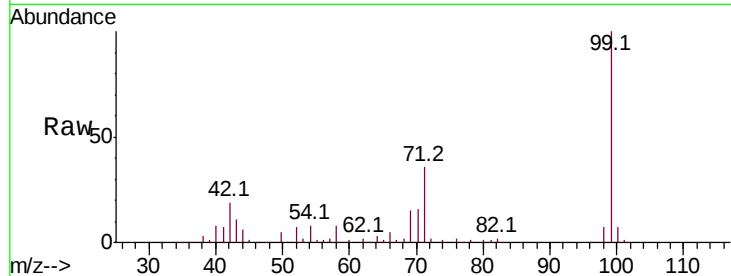
Tot Ion: 99 Resp: 331597

Ion Ratio Lower Upper

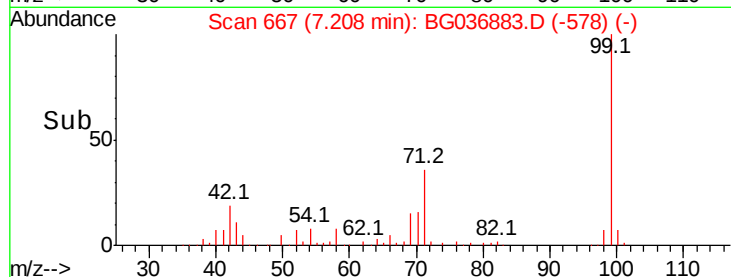
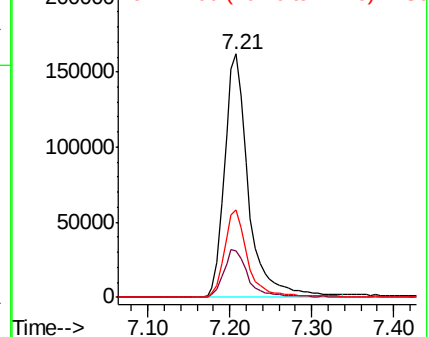
99 100

42 19.3 16.5 24.7

71 36.0 29.4 44.2



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: 10.85 min Scan# 1287

Delta R.T. -0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

Tgt Ion:136 Resp: 167285

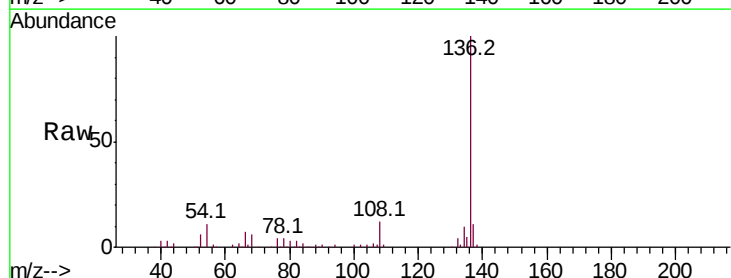
Ion Ratio Lower Upper

136 100

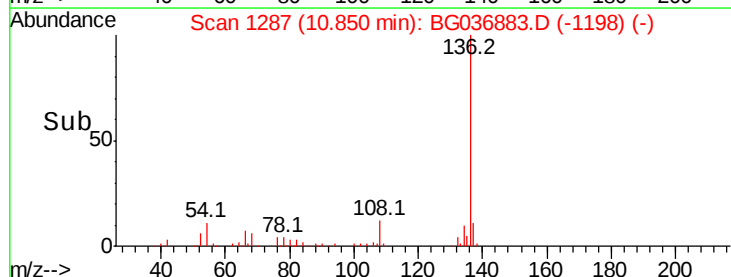
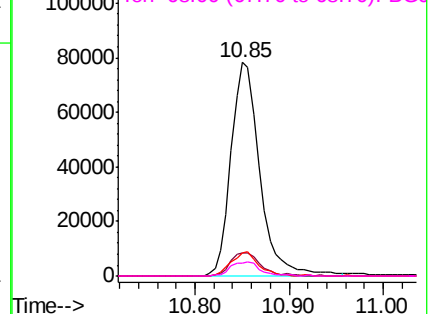
137 10.8 8.8 13.2

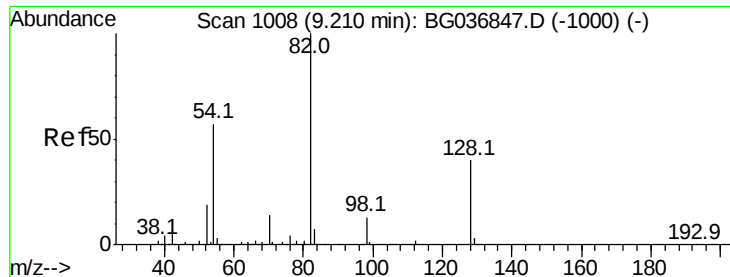
54 11.0 9.2 13.8

68 6.2 5.8 8.6



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

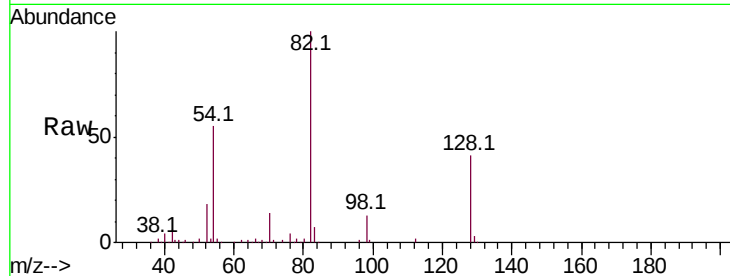




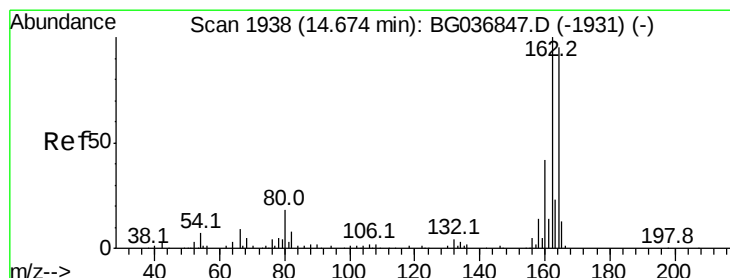
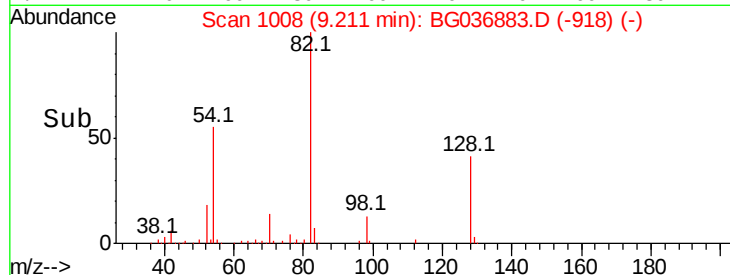
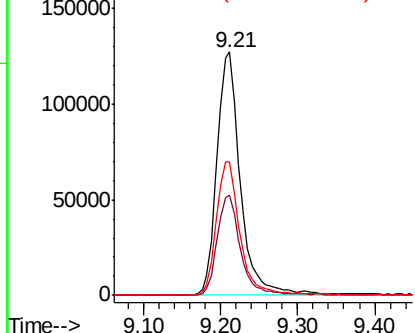
#23  
Nitrobenzene-d5  
Concen: 86.009 ng  
RT: 9.21 min Scan# 1008  
Delta R.T. 0.00 min  
Lab File: BG036883.D  
Acq: 22 Sep 2018 7:43

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-A

| Tot Ion   | 82    | Resp  | 268680 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.1  | 33.3  | 49.9   |
| 54        | 55.1  | 45.1  | 67.7   |

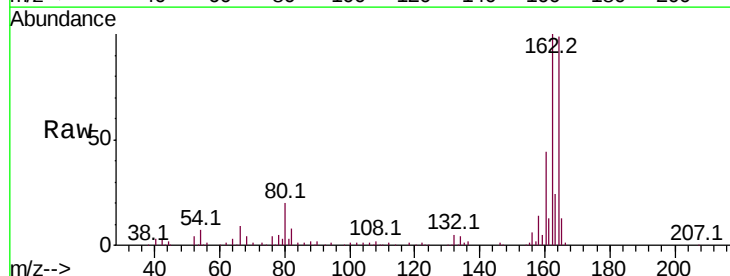


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

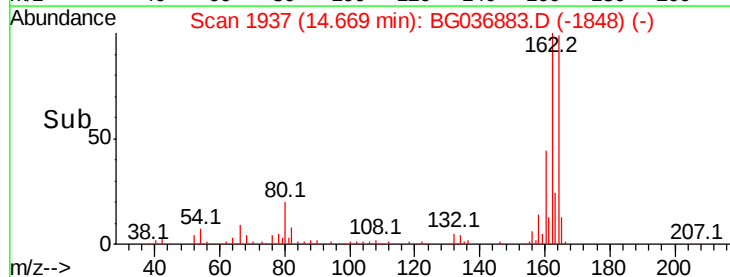
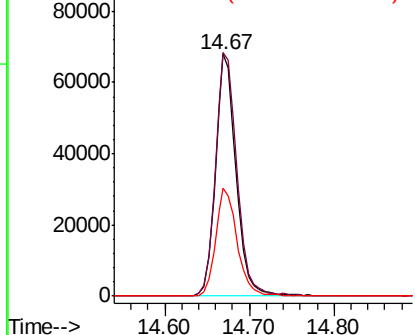


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1937  
Delta R.T. -0.00 min  
Lab File: BG036883.D  
Acq: 22 Sep 2018 7:43

| Tgt Ion   | 164   | Resp  | 115737 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.6 | 80.7  | 121.1  |
| 160       | 44.6  | 35.3  | 52.9   |



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: 136.659 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-A

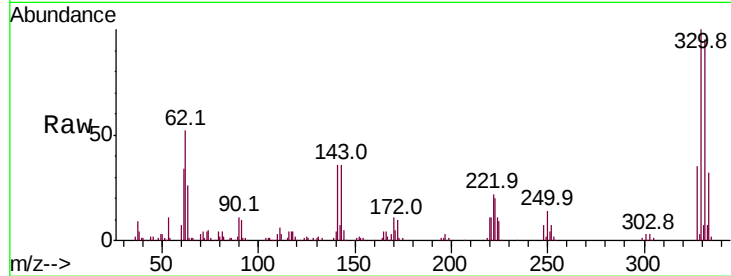
Tot Ion:330 Resp: 189235

Ion Ratio Lower Upper

330 100

332 96.3 75.4 113.2

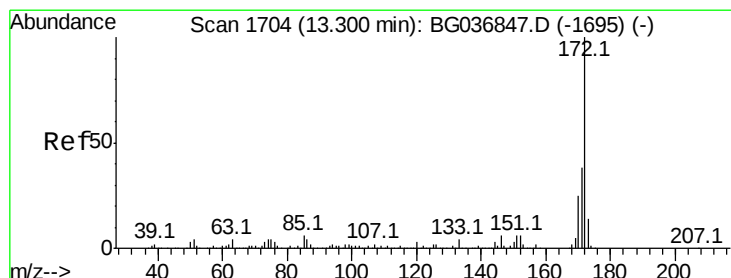
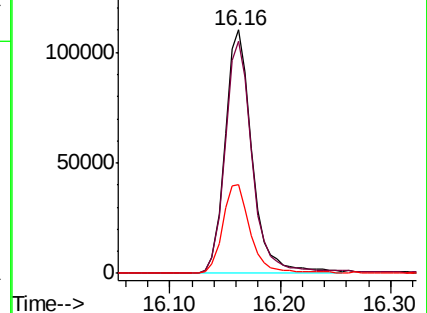
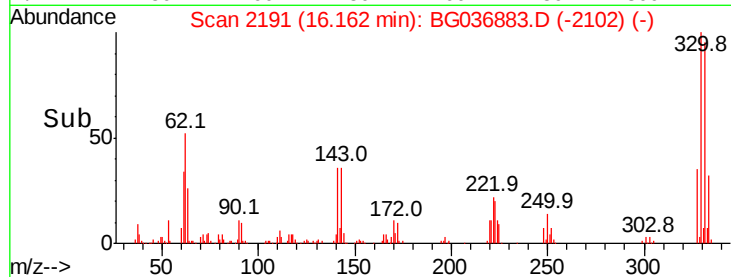
141 38.1 30.7 46.1



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: 81.453 ng

RT: 13.29 min Scan# 1703

Delta R.T. -0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

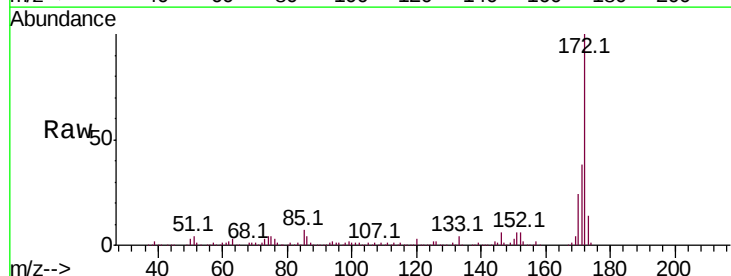
Tgt Ion:172 Resp: 632954

Ion Ratio Lower Upper

172 100

171 37.9 31.3 46.9

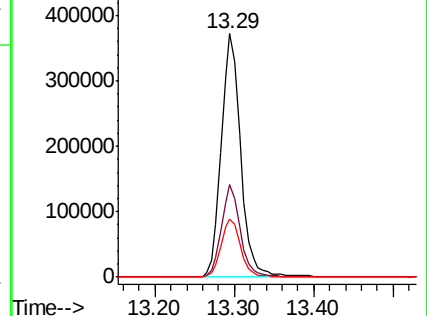
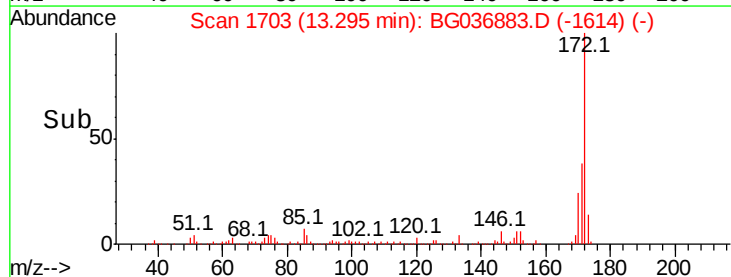
170 24.1 21.0 31.6



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

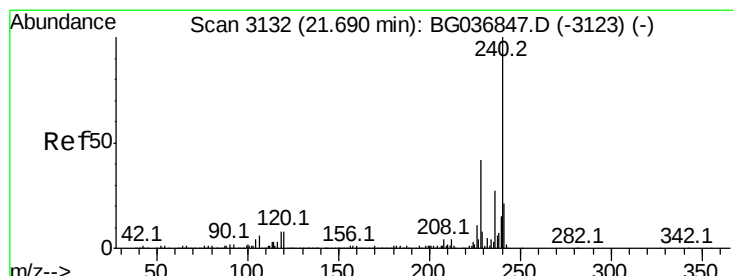
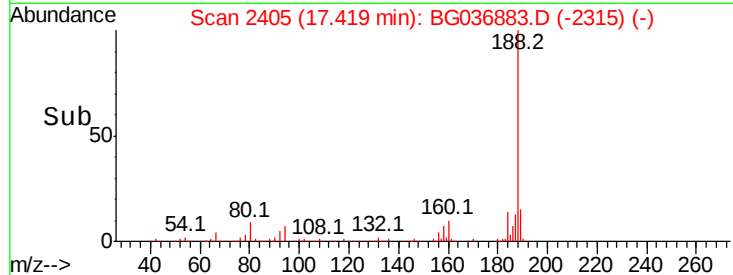
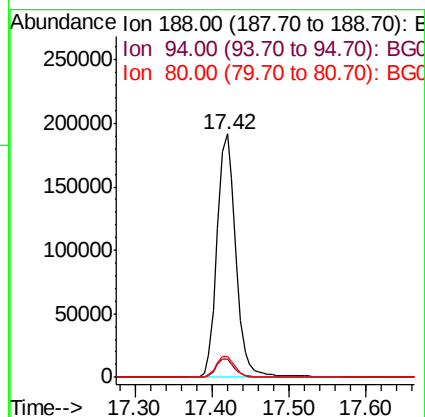
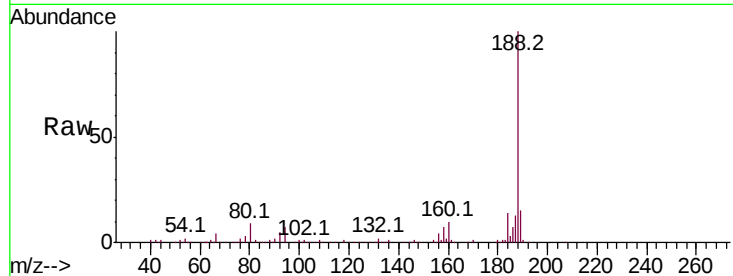




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2405  
Delta R.T. 0.00 min  
Lab File: BG036883.D  
Acq: 22 Sep 2018 7:43

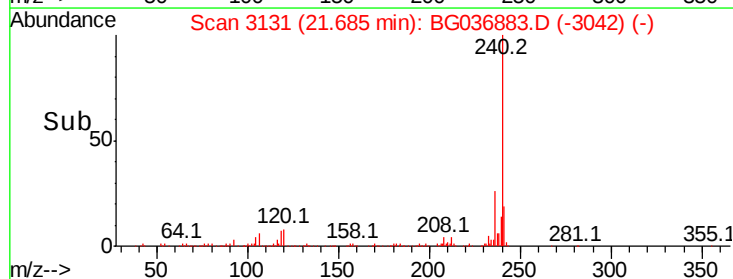
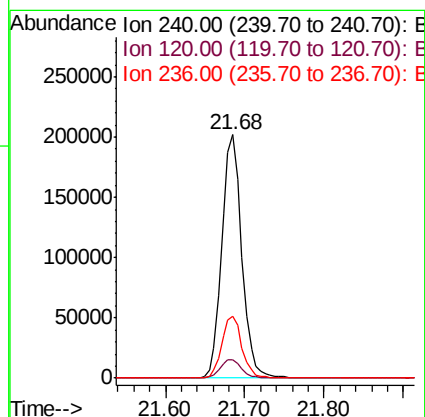
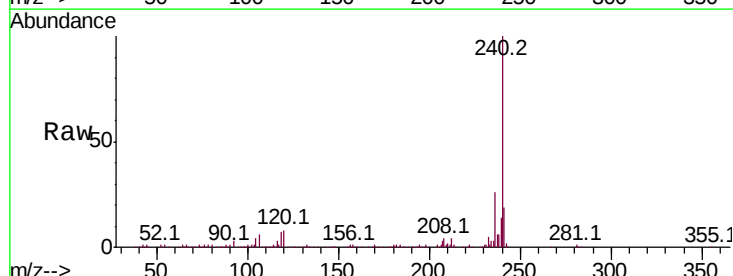
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-A

Tot Ion:188 Resp: 322115  
Ion Ratio Lower Upper  
188 100  
94 7.3 6.7 10.1  
80 8.7 8.1 12.1



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3131  
Delta R.T. -0.00 min  
Lab File: BG036883.D  
Acq: 22 Sep 2018 7:43

Tgt Ion:240 Resp: 352021  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.9 10.3  
236 25.7 21.2 31.8





#78

Terphenyl-d14

Concen: 96.503 ng

RT: 20.03 min Scan# 2849

Delta R.T. 0.00 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-A

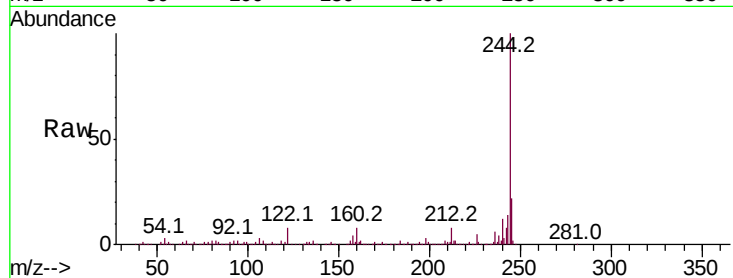
Tot Ion:244 Resp: 1291930

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.2   | 7.0   | 10.6  |
| 122 | 8.5   | 7.1   | 10.7  |

244 100

212 8.2 7.0 10.6

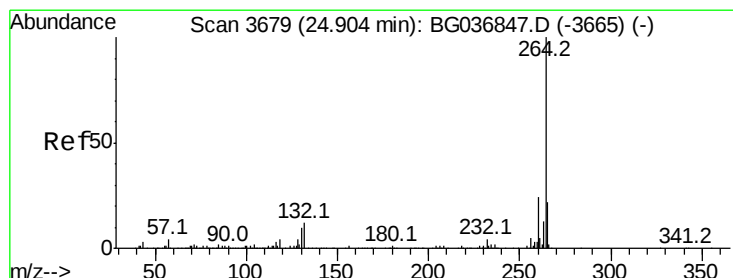
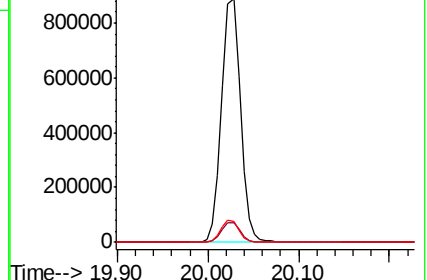
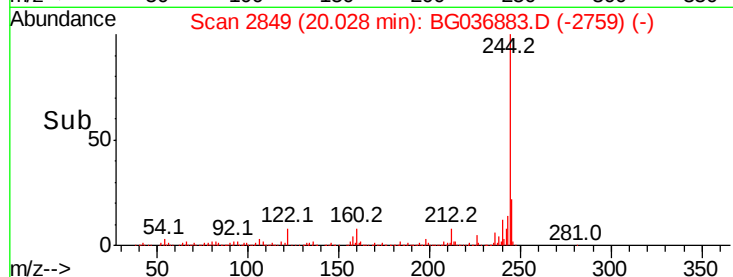
122 8.5 7.1 10.7



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: 24.89 min Scan# 3677

Delta R.T. -0.01 min

Lab File: BG036883.D

Acq: 22 Sep 2018 7:43

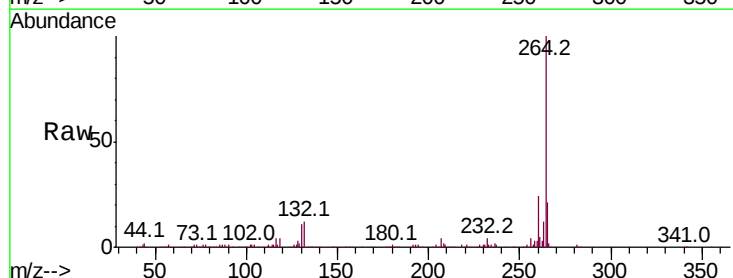
Tgt Ion:264 Resp: 347478

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 19.6  | 29.4  |
| 265 | 21.2  | 17.4  | 26.0  |

264 100

260 23.8 19.6 29.4

265 21.2 17.4 26.0



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

