

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072316\  
 Data File : BG023242.D  
 Acq On : 23 Jul 2016 8:53  
 Operator : UM/SJ  
 Sample : H4133-13  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D-32

Quant Time: Jul 25 13:24:34 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 19 15:46:37 2016  
 Response via : Initial Calibration

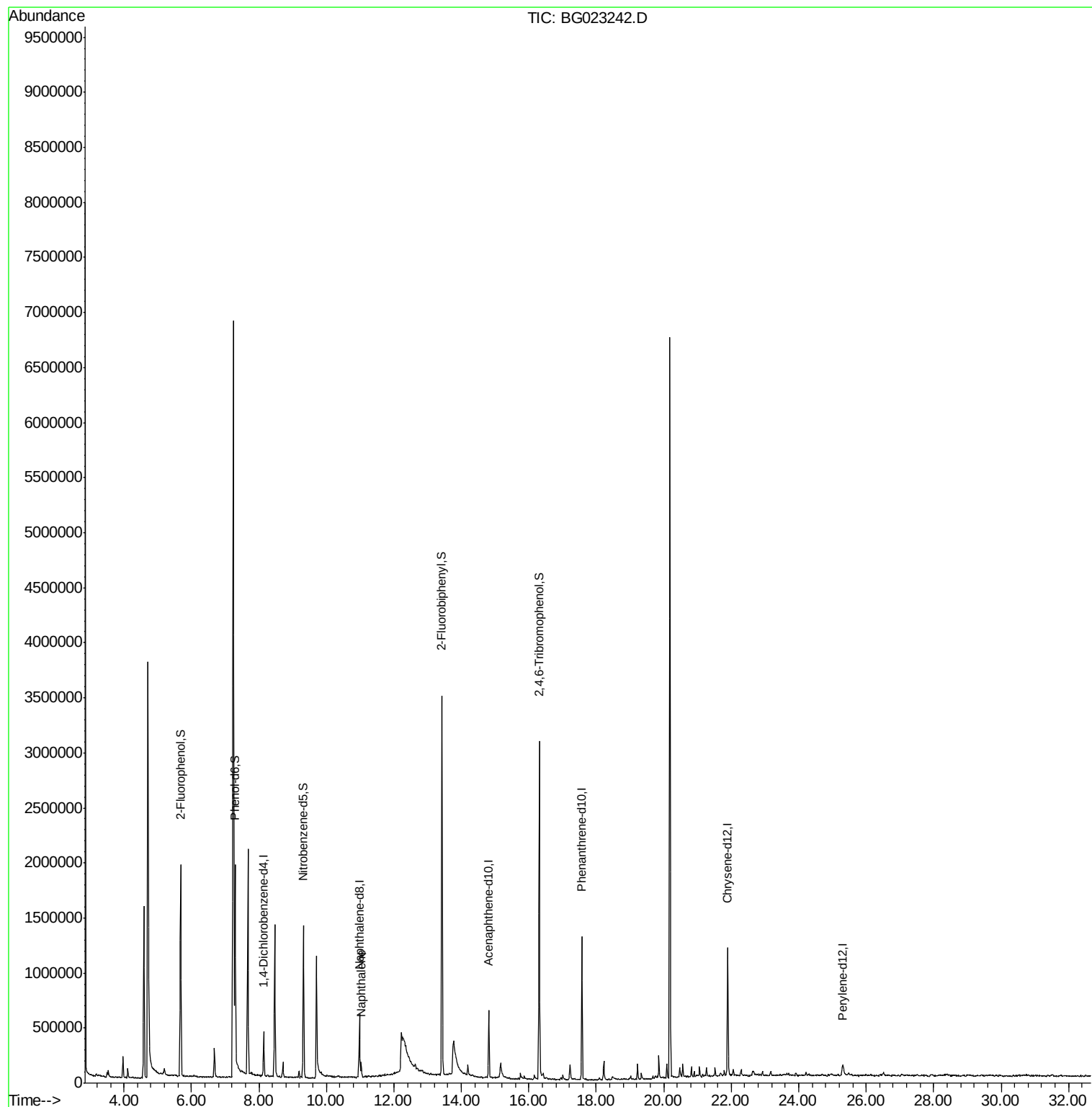
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 97879    | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 10.98 | 136  | 444077   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 14.81 | 164  | 171508   | 20.00  | ng    | 0.00         |
| 63) Phenanthrene-d10        | 17.57 | 188  | 739579   | 20.00  | ng    | 0.01         |
| 75) Chrysene-d12            | 21.89 | 240  | 599957   | 20.00  | ng    | 0.01         |
| 86) Perylene-d12            | 25.30 | 264  | 53273    | 20.00  | ng    | 0.03         |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.68  | 112  | 740466   | 123.73 | ng    | 0.00         |
| 7) Phenol-d6                | 7.29  | 99   | 828852   | 88.43  | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.32  | 82   | 890028   | 85.82  | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 16.31 | 330  | 484581   | 157.21 | ng    | 0.01         |
| 44) 2-Fluorobiphenyl        | 13.43 | 172  | 1621011  | 148.87 | ng    | 0.01         |
| 78) Terphenyl-d14           | 0.00  | 244  | 0d       | 0.00   | ng    |              |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 11.02 | 128  | 102918   | 4.55   | ng    | Qvalue<br>95 |

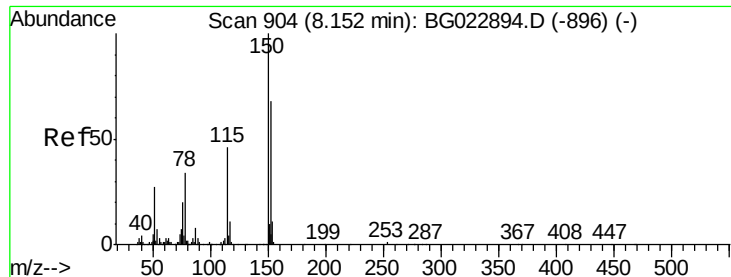
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 19 15:46:37 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.14 min Scan# 902

Delta R.T. -0.00 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

Instrument :

BNA\_G

ClientSampleId :

D-32

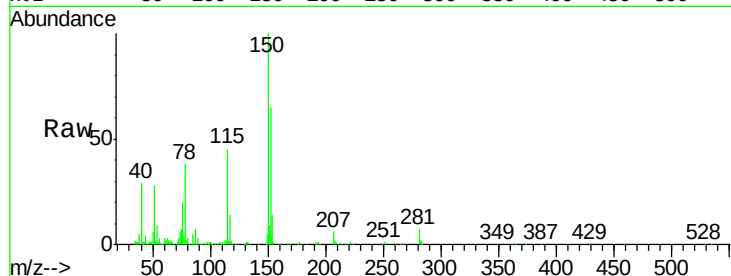
Tgt Ion:152 Resp: 97879

Ion Ratio Lower Upper

152 100

150 152.8 144.7 217.1

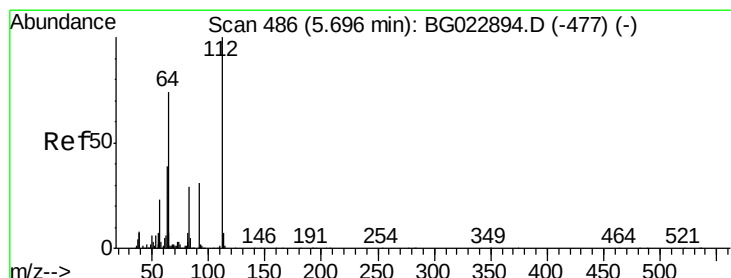
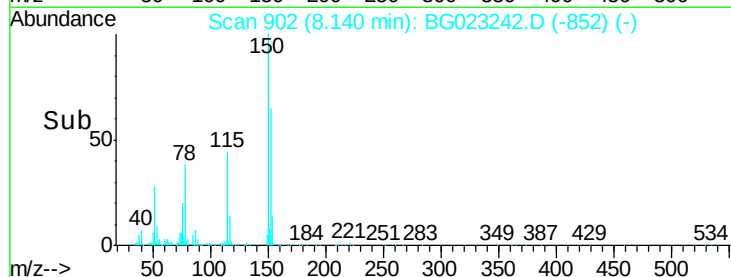
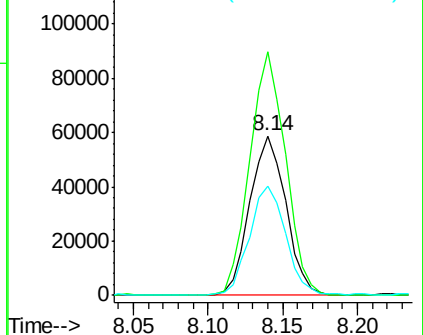
115 68.2 64.0 96.0



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: 123.73 ng

RT: 5.68 min Scan# 483

Delta R.T. 0.00 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

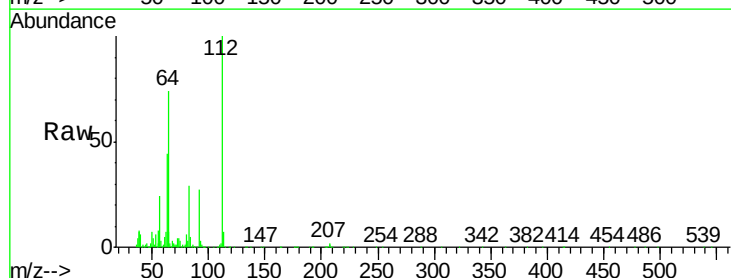
Tgt Ion:112 Resp: 740466

Ion Ratio Lower Upper

112 100

64 74.0 59.0 88.4

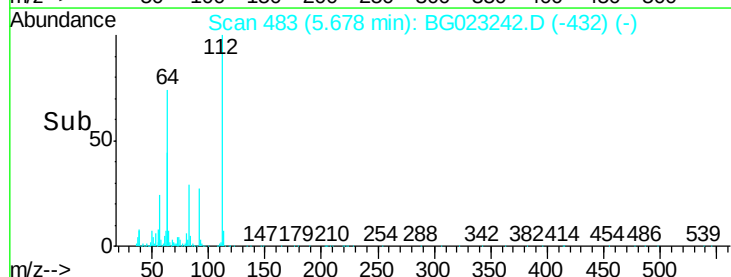
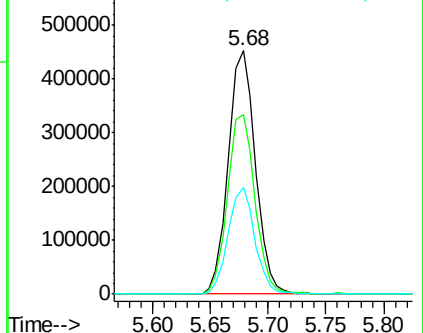
63 43.7 37.8 56.8

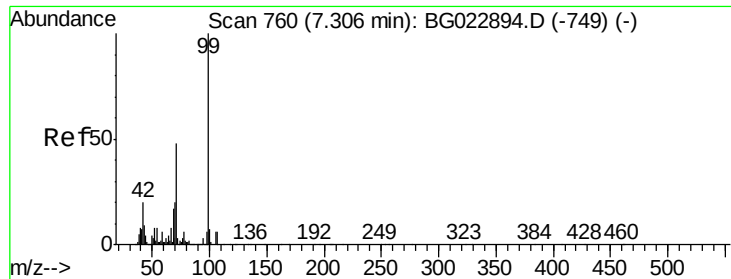


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 88.43 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.00 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

Instrument :

BNA\_G

ClientSampleId :

D-32

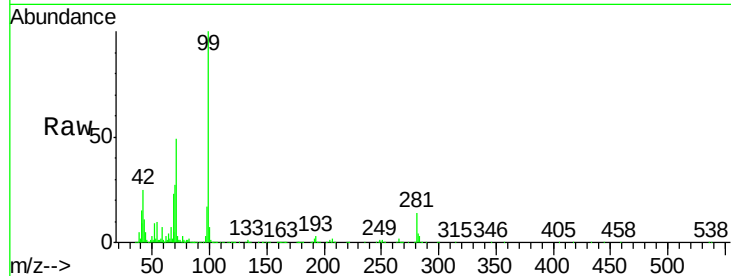
Tgt Ion: 99 Resp: 828852

Ion Ratio Lower Upper

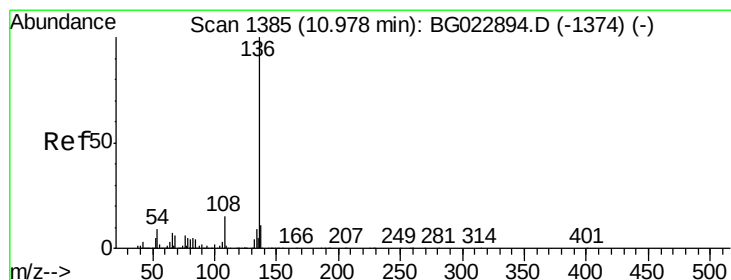
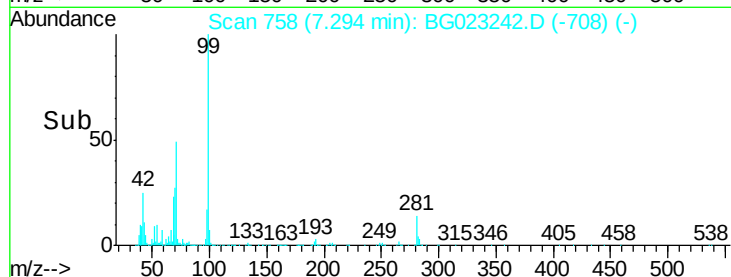
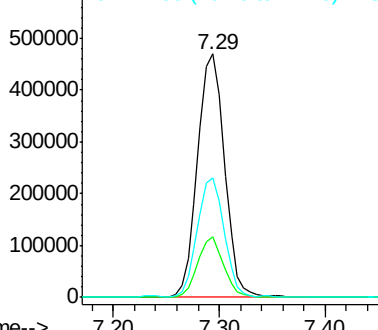
99 100

42 25.0 17.8 26.6

71 49.3 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: 10.98 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

Tgt Ion: 136 Resp: 444077

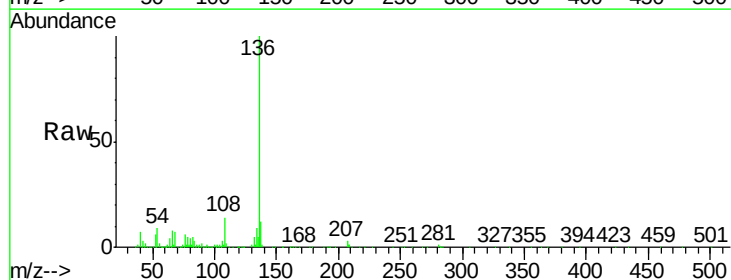
Ion Ratio Lower Upper

136 100

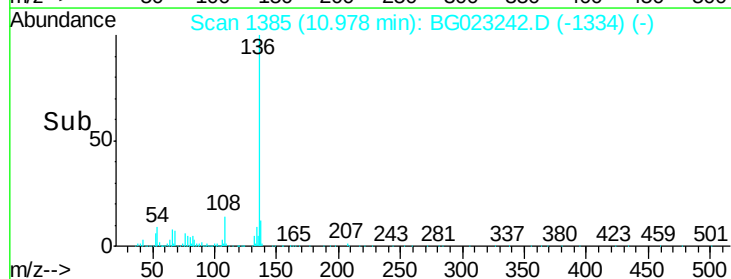
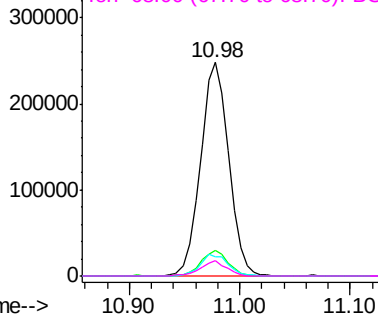
137 12.1 9.6 14.4

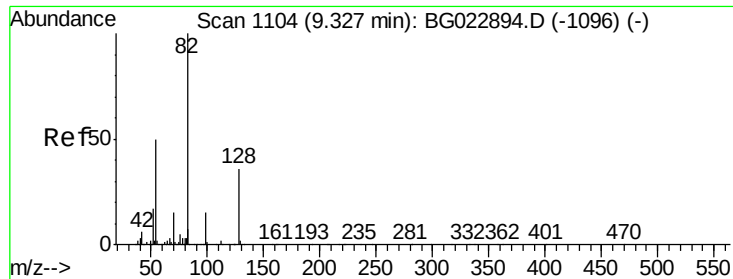
54 8.9 7.3 10.9

68 7.3 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

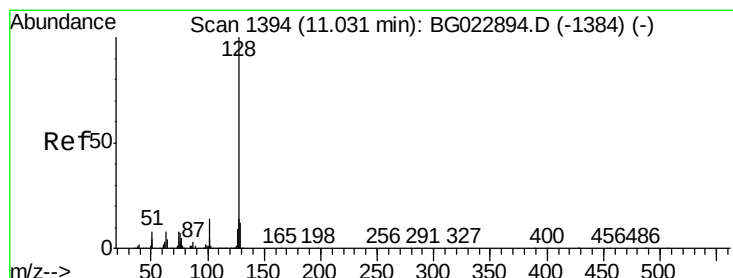
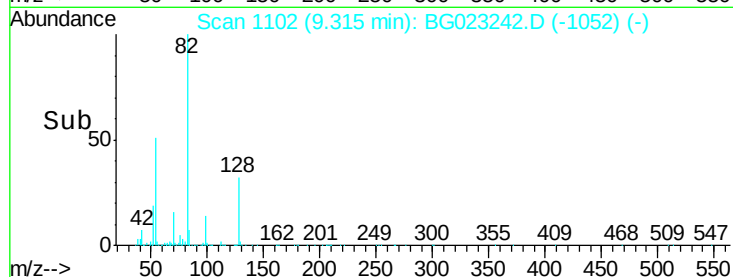
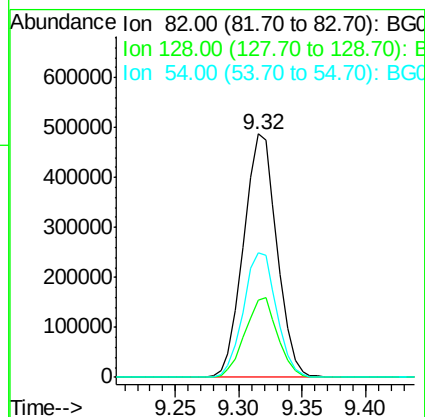
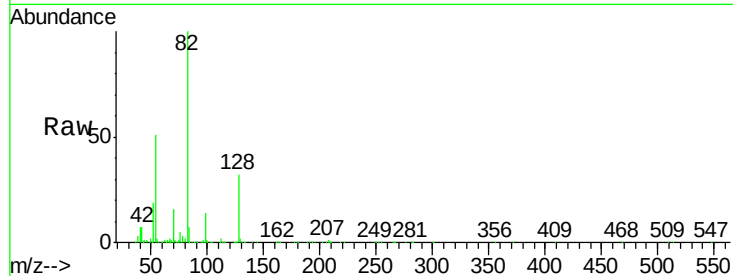




#23  
 Nitrobenzene-d5  
 Concen: 85.82 ng  
 RT: 9.32 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: BG023242.D  
 Acq: 23 Jul 2016 8:53

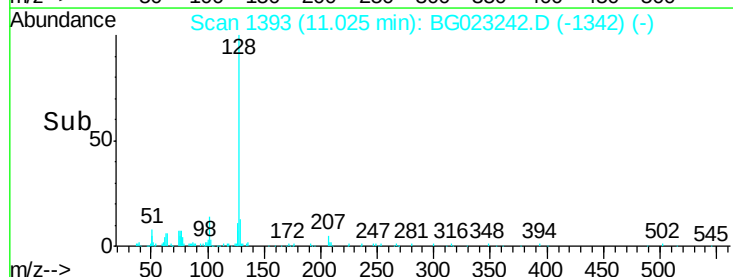
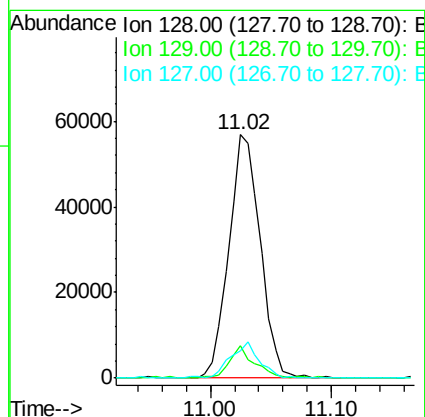
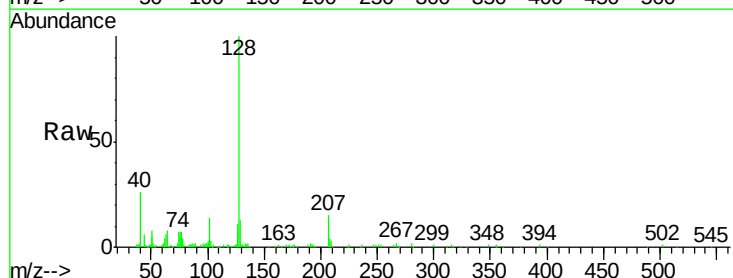
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D-32

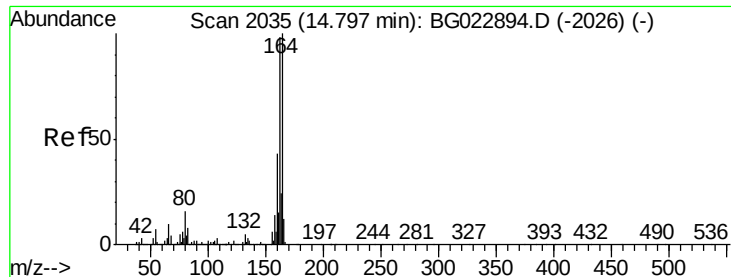
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 31.8  | 24.4  | 36.6  |
| 54      | 51.3  | 41.4  | 62.0  |



#31  
 Naphthalene  
 Concen: 4.55 ng  
 RT: 11.02 min Scan# 1393  
 Delta R.T. 0.00 min  
 Lab File: BG023242.D  
 Acq: 23 Jul 2016 8:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.1  | 9.4   | 14.0  |
| 127     | 11.4  | 11.3  | 16.9  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.81 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

Instrument :

BNA\_G

ClientSampleId :

D-32

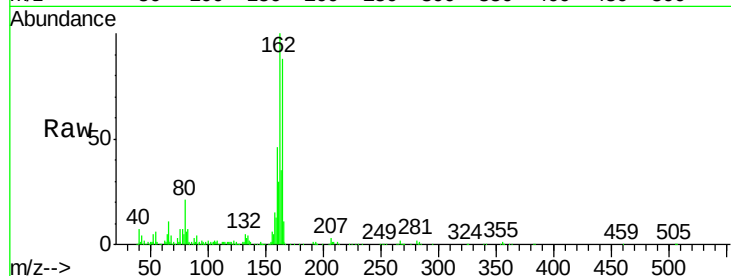
Tgt Ion:164 Resp: 171508

Ion Ratio Lower Upper

164 100

162 113.7 87.7 131.5

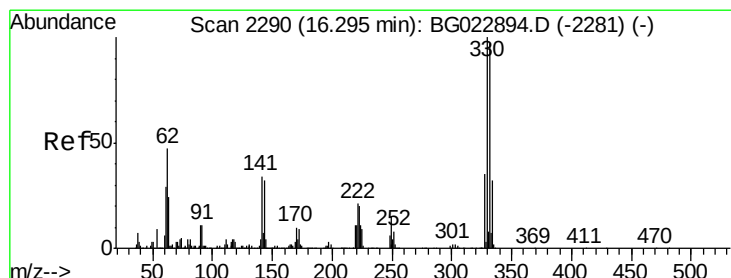
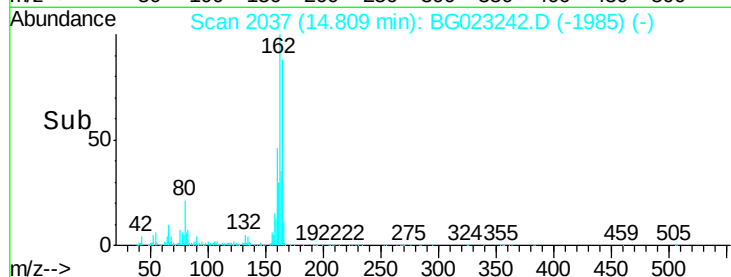
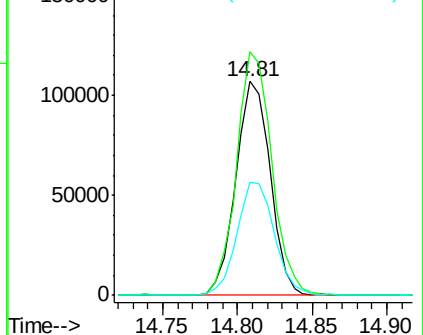
160 52.6 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 157.21 ng

RT: 16.31 min Scan# 2293

Delta R.T. 0.01 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

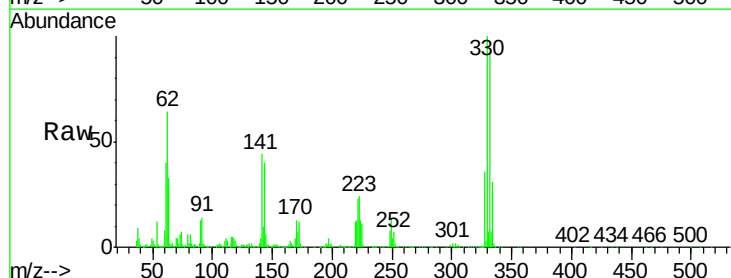
Tgt Ion:330 Resp: 484581

Ion Ratio Lower Upper

330 100

332 95.2 77.4 116.2

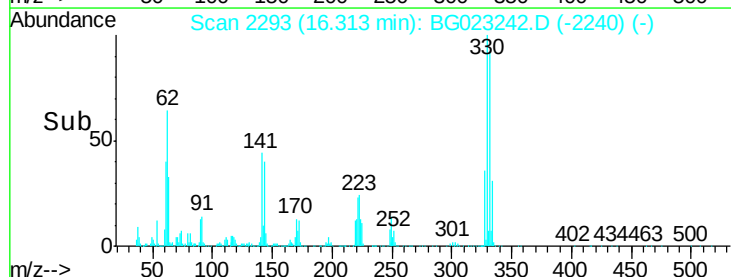
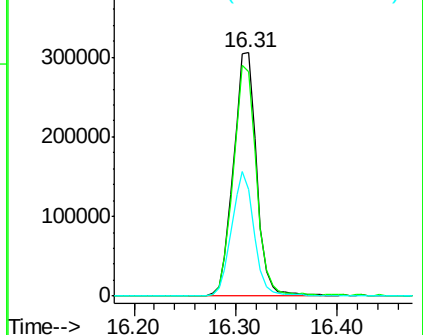
141 49.5 31.7 47.5#

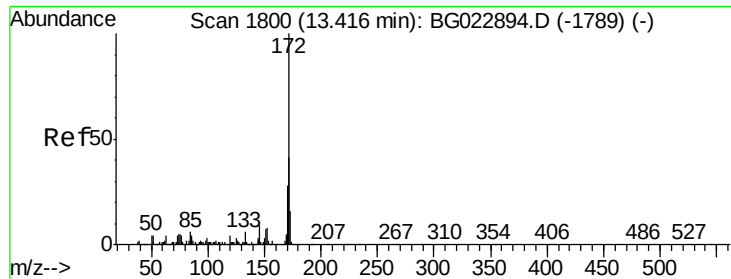


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

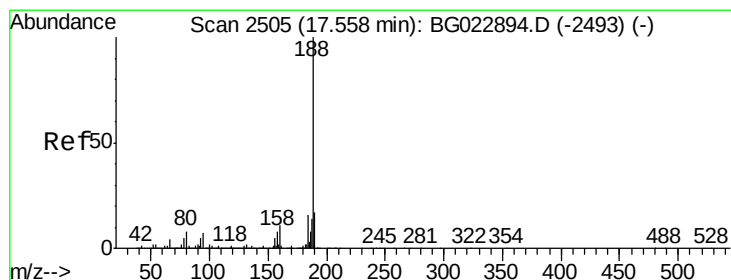
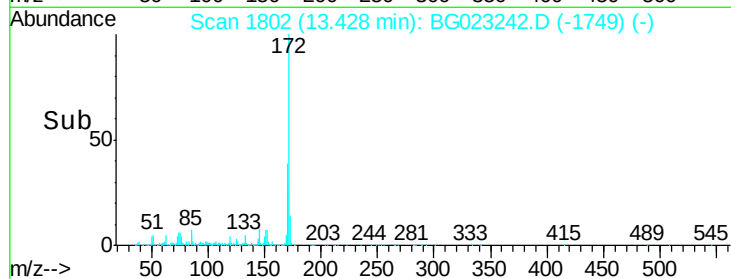
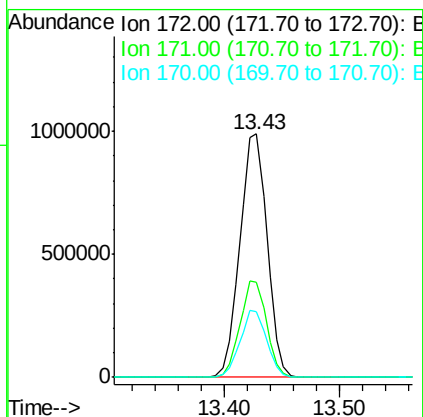
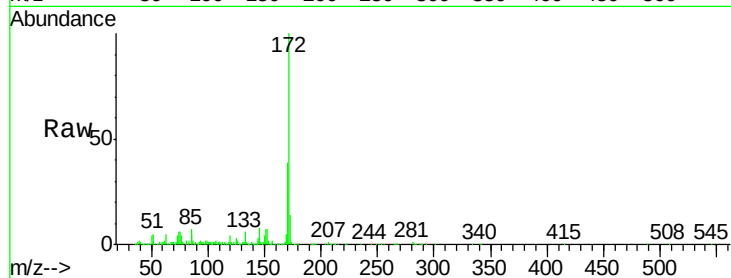




#44  
 2-Fluorobiphenyl  
 Concen: 148.87 ng  
 RT: 13.43 min Scan# 1802  
 Delta R.T. 0.01 min  
 Lab File: BG023242.D  
 Acq: 23 Jul 2016 8:53

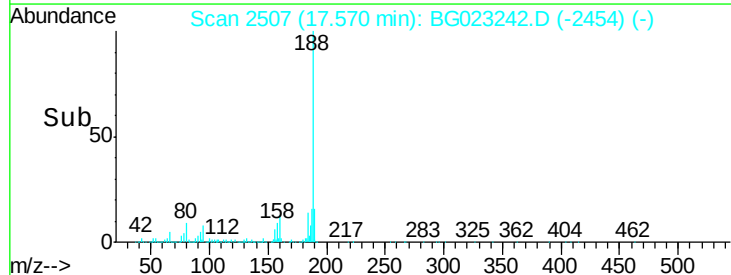
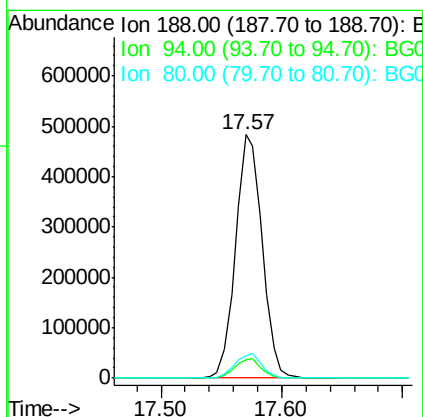
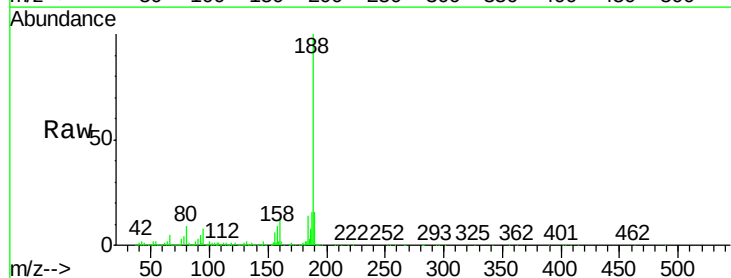
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D-32

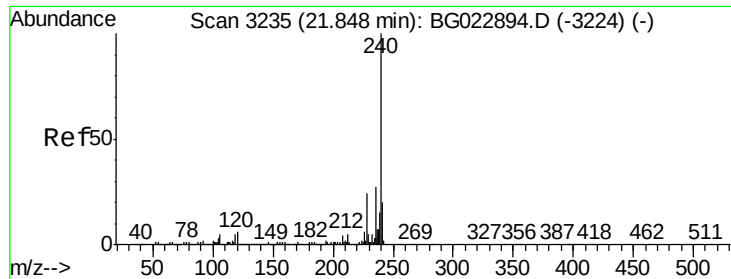
Tgt Ion:172 Resp: 1621011  
 Ion Ratio Lower Upper  
 172 100  
 171 39.2 31.6 47.4  
 170 26.9 21.3 31.9



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.57 min Scan# 2507  
 Delta R.T. 0.01 min  
 Lab File: BG023242.D  
 Acq: 23 Jul 2016 8:53

Tgt Ion:188 Resp: 739579  
 Ion Ratio Lower Upper  
 188 100  
 94 7.7 5.2 7.8  
 80 9.2 7.2 10.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.89 min Scan# 3243

Delta R.T. 0.01 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

Instrument :

BNA\_G

ClientSampleId :

D-32

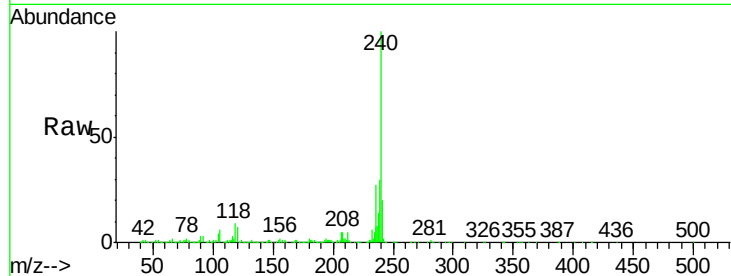
Tgt Ion: 240 Resp: 599957

Ion Ratio Lower Upper

240 100

120 7.3 4.1 6.1#

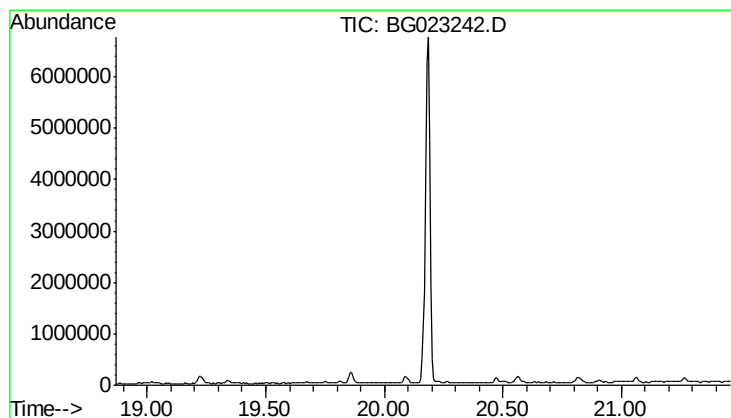
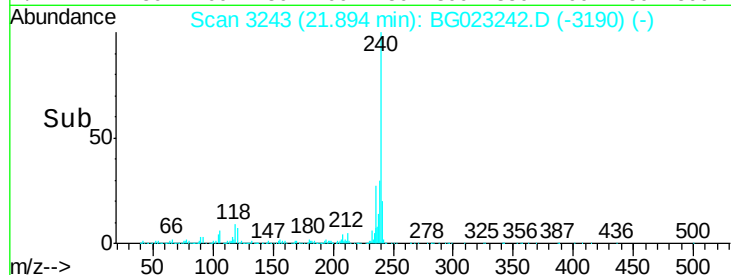
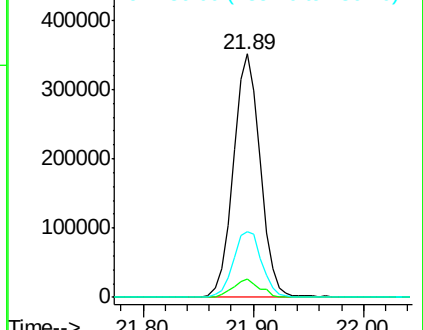
236 26.8 21.1 31.7



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



#78

Terphenyl-d14

Concen: 0.00 ng

Expected RT: 20.16 min

Lab File: BG023242.D

Acq: 23 Jul 2016 8:53

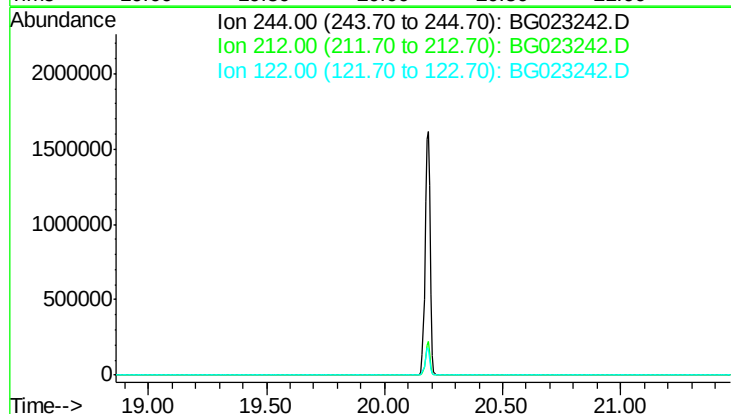
Tgt Ion: 244

Sig Exp Ratio

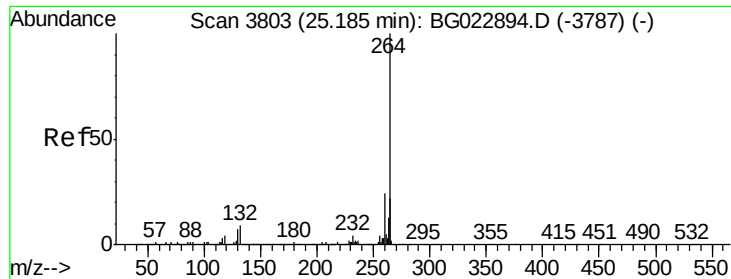
244 100

212 13.5

122 10.0







#86

Perylene-d12

Concen: 20.00 ng

RT: 25.30 min Scan# 3823

Delta R.T. 0.03 min

Lab File: BG023242.D

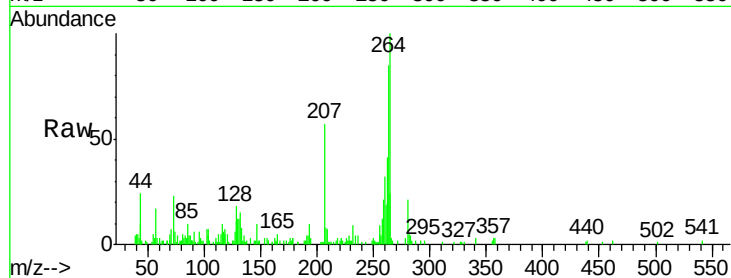
Acq: 23 Jul 2016 8:53

Instrument :

BNA\_G

ClientSampleId :

D-32



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 264   | Resp: | 53273 |
| Ion      | Ratio | Lower | Upper |
| 264      | 100   |       |       |
| 260      | 32.4  | 18.4  | 27.6# |
| 265      | 23.6  | 18.9  | 28.3  |

