

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081516\  
 Data File : BG023719.D  
 Acq On : 15 Aug 2016 13:27  
 Operator : UM/SJ  
 Sample : H4452-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-1

Quant Time: Aug 15 17:22:22 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\Methods\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 19:22:14 2016  
 Response via : Initial Calibration

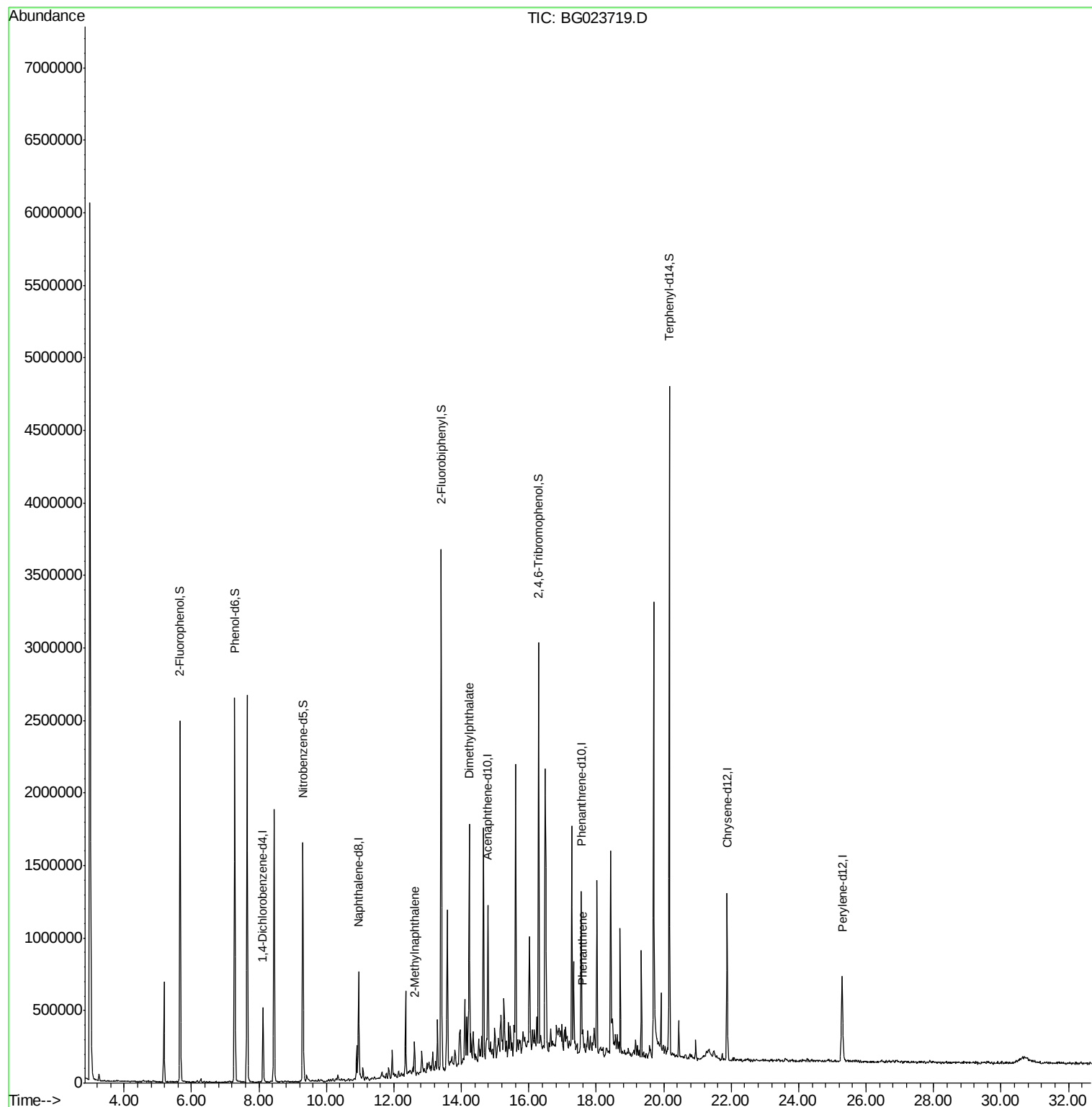
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.12  | 152  | 139632   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.96 | 136  | 591240   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.79 | 164  | 350681   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.55 | 188  | 660696   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.88 | 240  | 708398   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 25.28 | 264  | 719944   | 20.00  | ng    | 0.04     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 1053596  | 127.01 | ng    | 0.00     |
| 7) Phenol-d6                | 7.28  | 99   | 1534003  | 118.73 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.30  | 82   | 1065592  | 89.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.29 | 330  | 510671   | 99.56  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.40 | 172  | 1796215  | 86.39  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.16 | 244  | 1825577  | 79.38  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 12.61 | 142  | 117590m  | 5.14   | ng    |          |
| 49) Dimethylphthalate       | 14.23 | 163  | 731085   | 27.17  | ng    | 99       |
| 70) Phenanthrene            | 17.60 | 178  | 70721    | 2.11   | ng    | 98       |

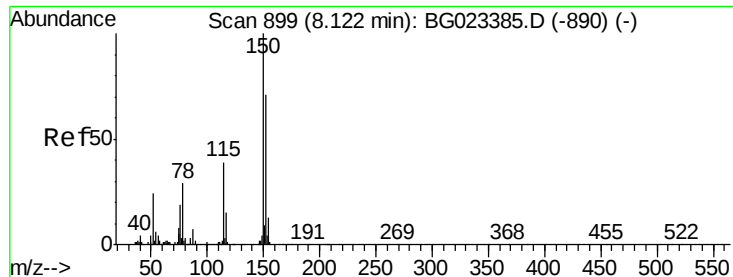
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081516\  
Data File : BG023719.D  
Acq On : 15 Aug 2016 13:27  
Operator : UM/SJ  
Sample : H4452-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P-1

Quant Time: Aug 15 17:22:22 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\Methods\8270-BG080116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 01 19:22:14 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Instrument :

BNA\_G

ClientSampleId :

P-1

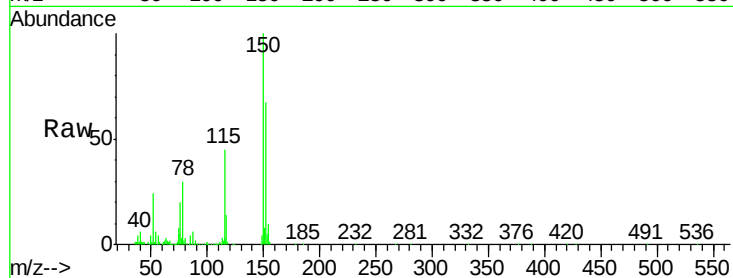
Tgt Ion:152 Resp: 139632

Ion Ratio Lower Upper

152 100

150 149.4 144.7 217.1

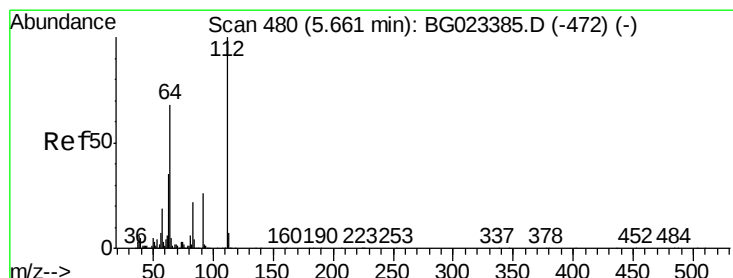
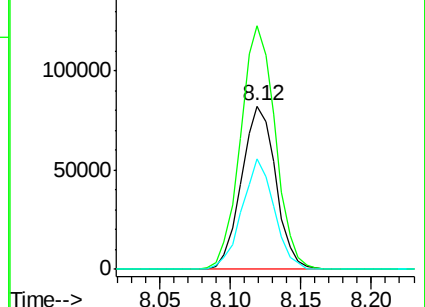
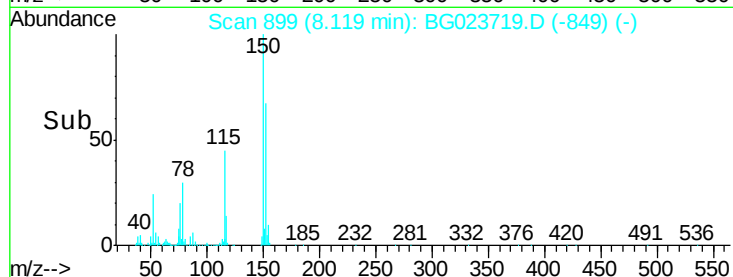
115 67.7 64.0 96.0



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: 127.01 ng

RT: 5.66 min Scan# 480

Delta R.T. -0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

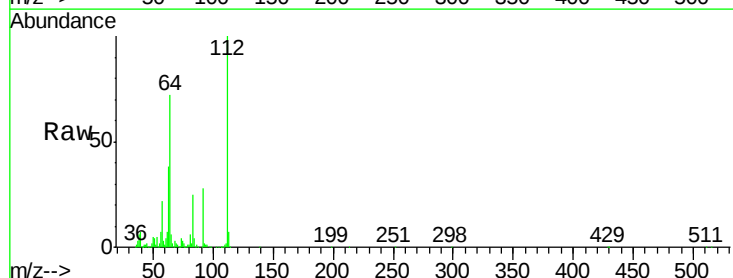
Tgt Ion:112 Resp: 1053596

Ion Ratio Lower Upper

112 100

64 71.7 59.0 88.4

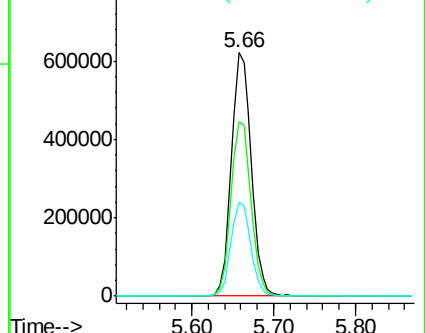
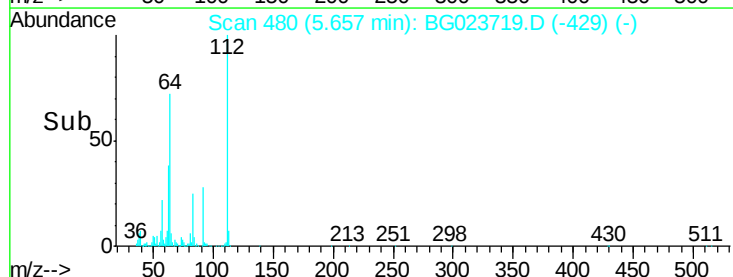
63 38.4 37.8 56.8

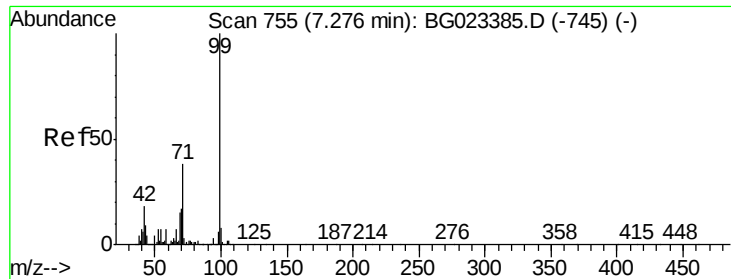


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 118.73 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Instrument :

BNA\_G

ClientSampleId :

P-1

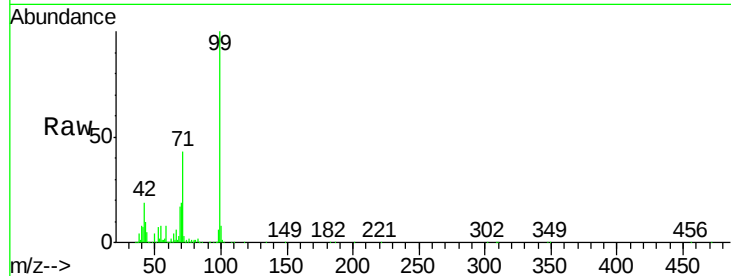
Tgt Ion: 99 Resp: 1534003

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 18.9  | 17.8  | 26.6  |
| 71  | 43.3  | 41.5  | 62.3  |

99 100

42 18.9 17.8 26.6

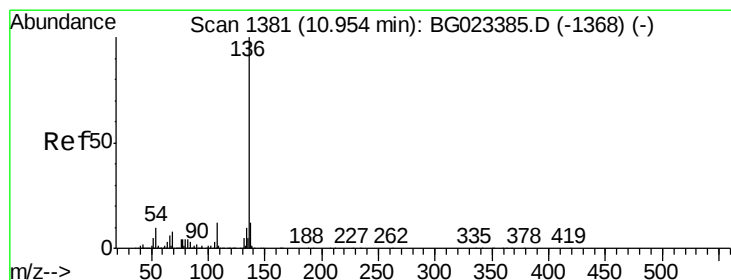
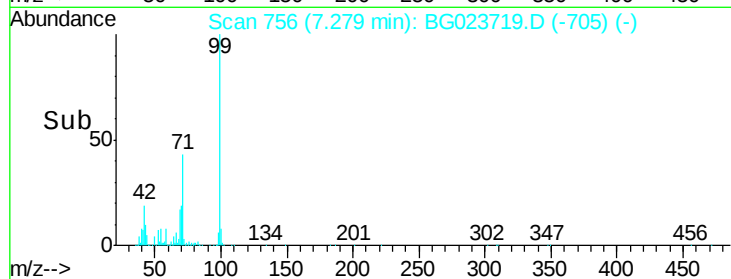
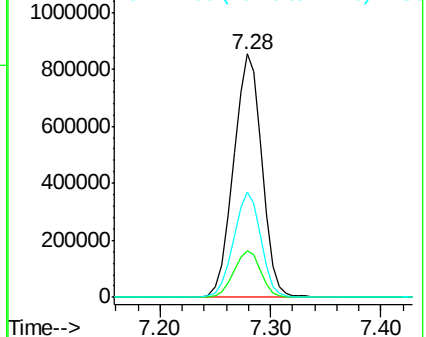
71 43.3 41.5 62.3



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: 10.96 min Scan# 1382

Delta R.T. 0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Tgt Ion: 136 Resp: 591240

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 9.6   | 14.4  |
| 54  | 8.8   | 7.3   | 10.9  |
| 68  | 6.2   | 5.3   | 7.9   |

136 100

137 10.9 9.6 14.4

54 8.8 7.3 10.9

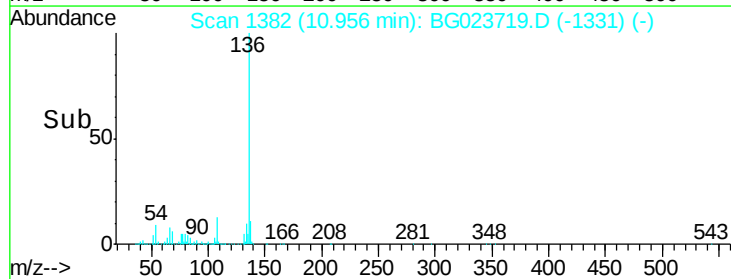
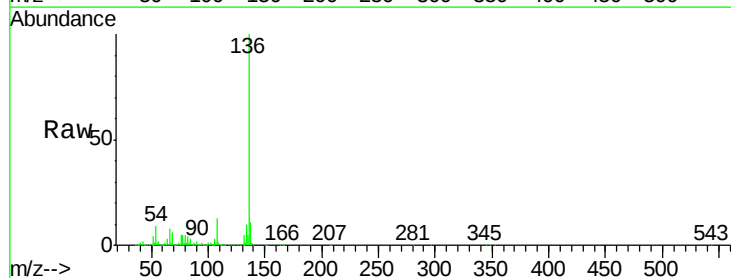
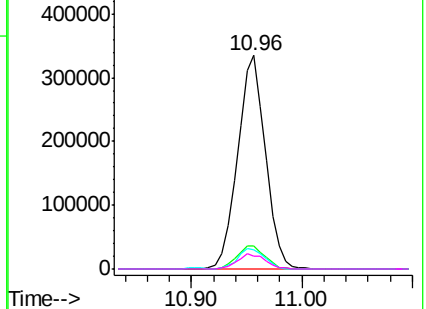
68 6.2 5.3 7.9

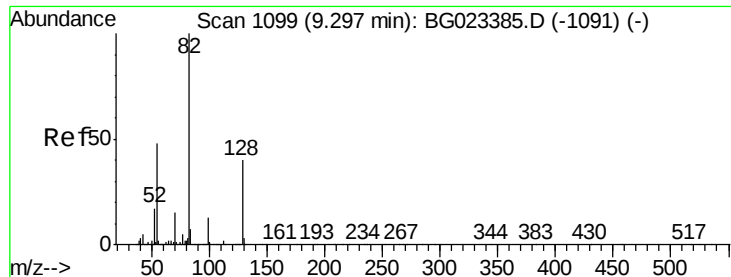
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

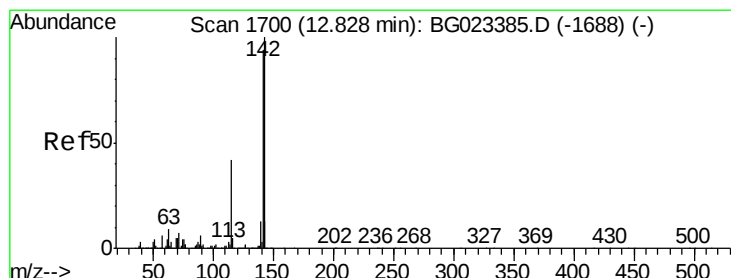
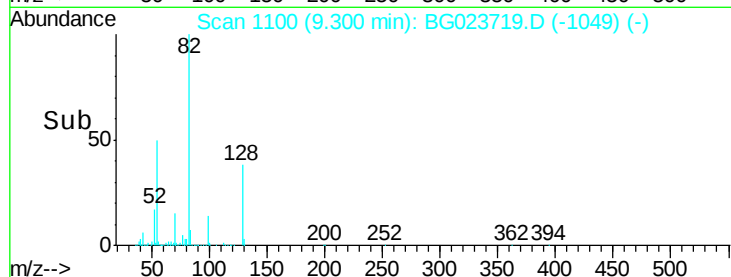
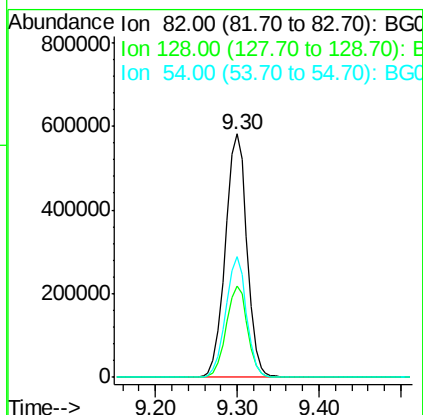
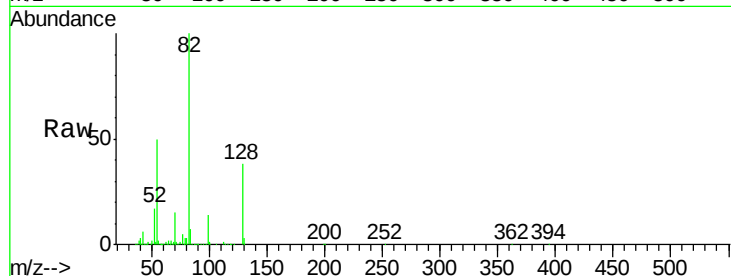




#23  
 Nitrobenzene-d5  
 Concen: 89.60 ng  
 RT: 9.30 min Scan# 1100  
 Delta R.T. 0.00 min  
 Lab File: BG023719.D  
 Acq: 15 Aug 2016 13:27

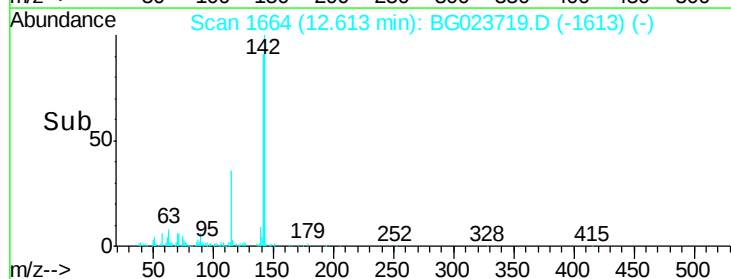
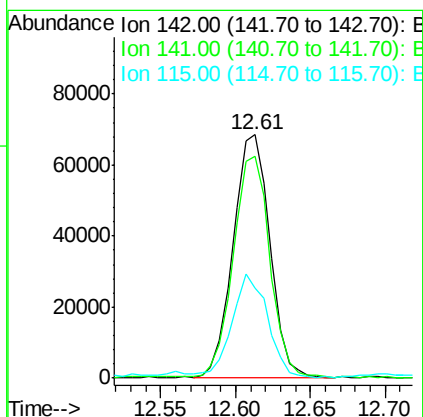
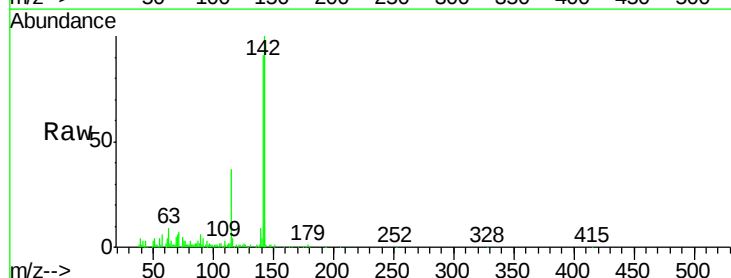
Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-1

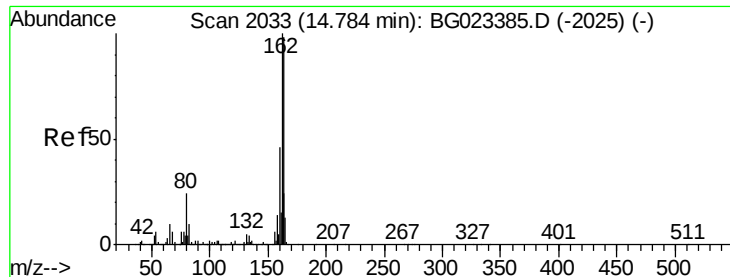
Tgt Ion: 82 Resp: 1065592  
 Ion Ratio Lower Upper  
 82 100  
 128 37.7 24.4 36.6#  
 54 49.7 41.4 62.0



#37  
 2-Methylnaphthalene  
 Concen: 5.14 ng m  
 RT: 12.61 min Scan# 1664  
 Delta R.T. 0.00 min  
 Lab File: BG023719.D  
 Acq: 15 Aug 2016 13:27

Tgt Ion: 142 Resp: 117590  
 Ion Ratio Lower Upper  
 142 100  
 141 91.1 70.2 105.2  
 115 37.0 41.7 62.5#

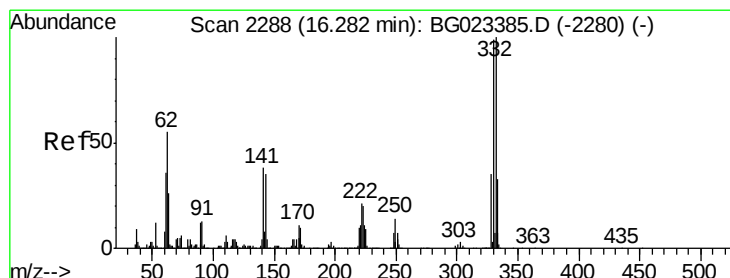
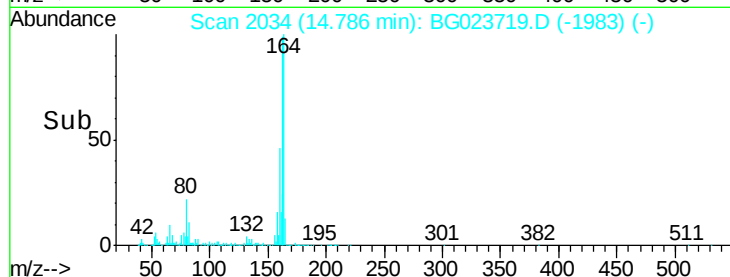
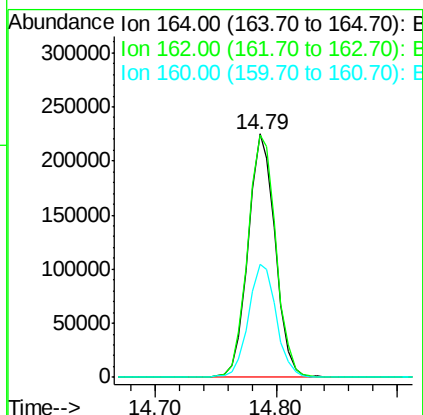
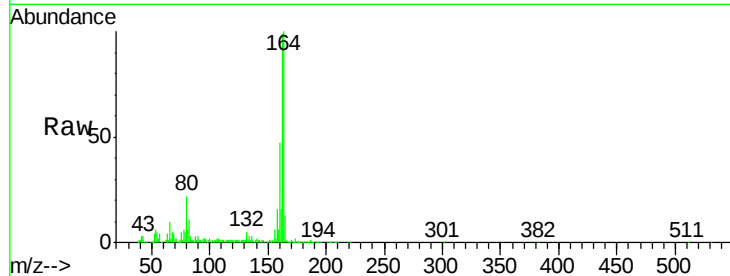




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.79 min Scan# 2034  
Delta R.T. 0.00 min  
Lab File: BG023719.D  
Acq: 15 Aug 2016 13:27

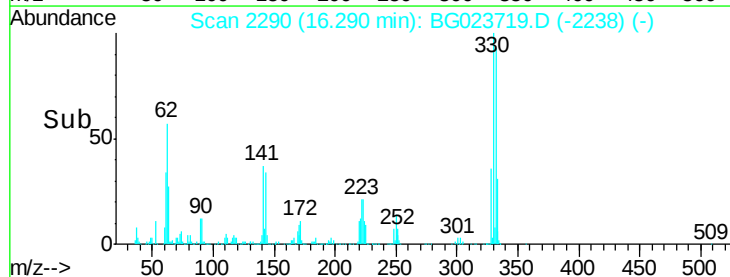
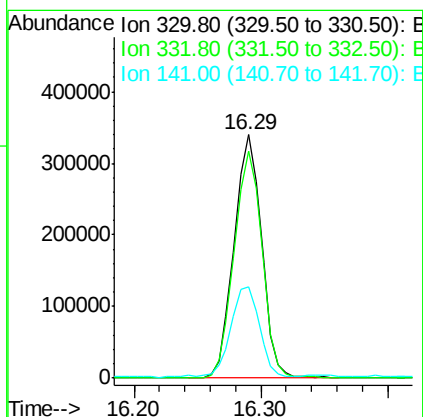
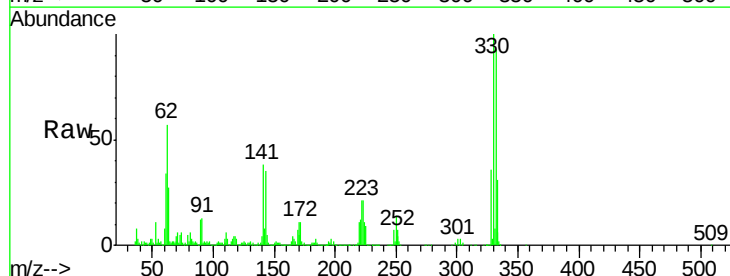
Instrument :  
BNA\_G  
ClientSampleId :  
P-1

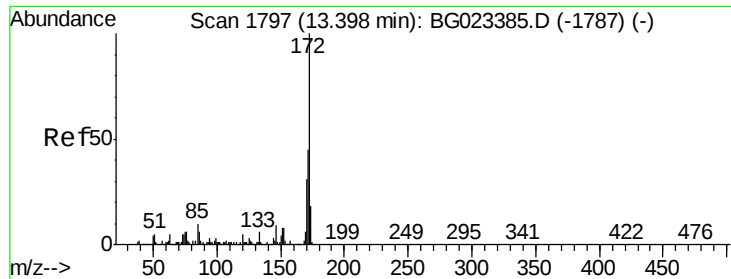
Tgt Ion:164 Resp: 350681  
Ion Ratio Lower Upper  
164 100  
162 99.4 87.7 131.5  
160 46.6 37.2 55.8



#41  
2,4,6-Tribromophenol  
Concen: 99.56 ng  
RT: 16.29 min Scan# 2290  
Delta R.T. 0.01 min  
Lab File: BG023719.D  
Acq: 15 Aug 2016 13:27

Tgt Ion:330 Resp: 510671  
Ion Ratio Lower Upper  
330 100  
332 94.7 77.4 116.2  
141 39.1 31.7 47.5





#44

2-Fluorobiphenyl

Concen: 86.39 ng

RT: 13.40 min Scan# 1798

Delta R.T. 0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Instrument :

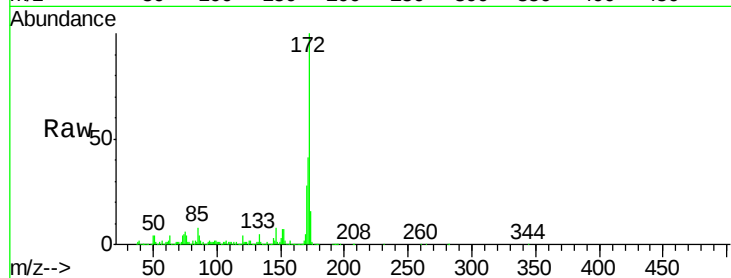
BNA\_G

ClientSampled :

P-1

Tgt Ion:172 Resp: 1796215

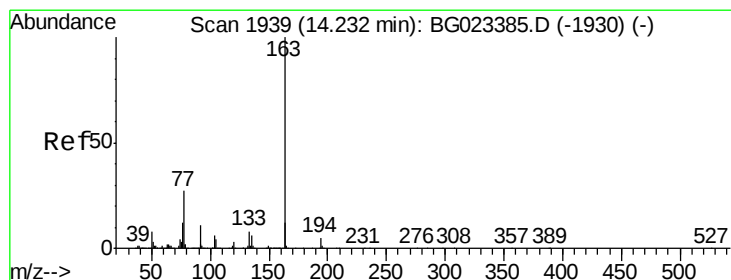
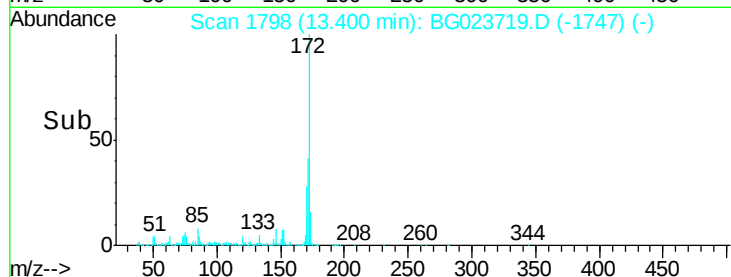
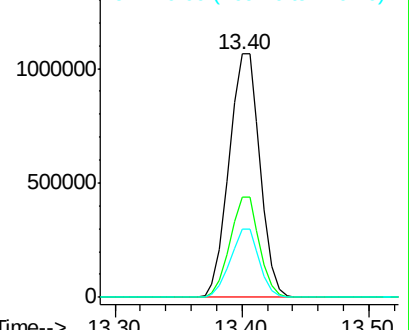
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 41.0  | 31.6  | 47.4  |
| 170 | 27.8  | 21.3  | 31.9  |



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



#49

Dimethylphthalate

Concen: 27.17 ng

RT: 14.23 min Scan# 1939

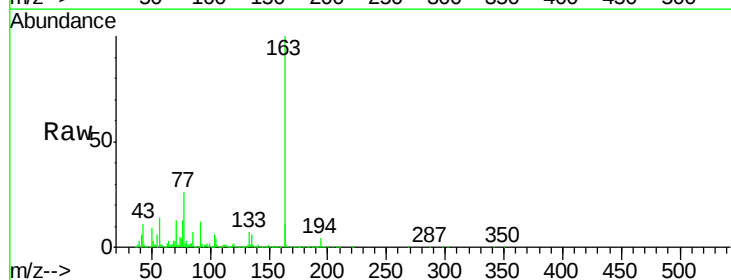
Delta R.T. -0.00 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Tgt Ion:163 Resp: 731085

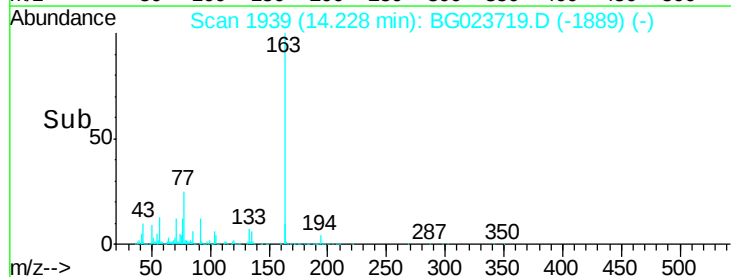
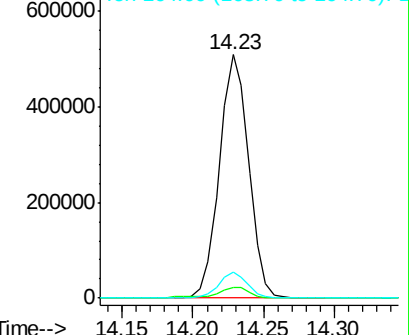
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 4.3   | 3.6   | 5.4   |
| 164 | 10.6  | 8.1   | 12.1  |

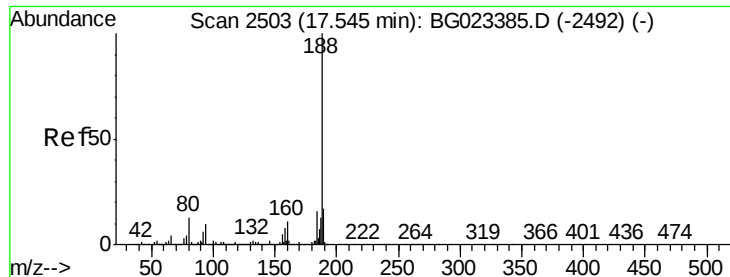


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.55 min Scan# 2505

Delta R.T. 0.01 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Instrument :

BNA\_G

ClientSampled :

P-1

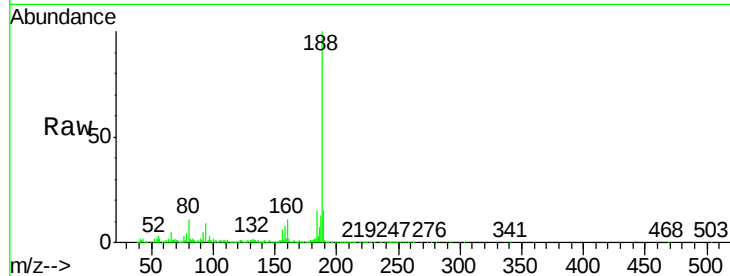
Tgt Ion:188 Resp: 660696

Ion Ratio Lower Upper

188 100

94 9.1 5.2 7.8#

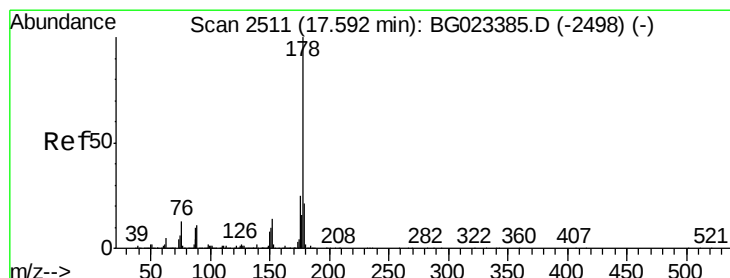
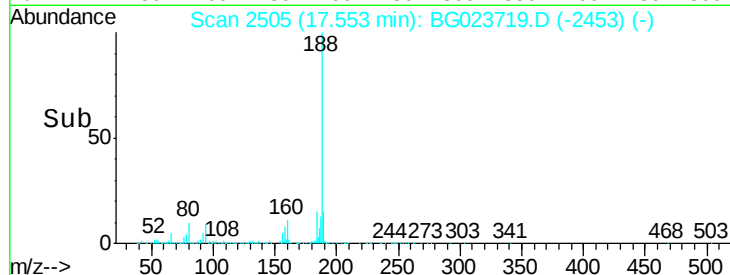
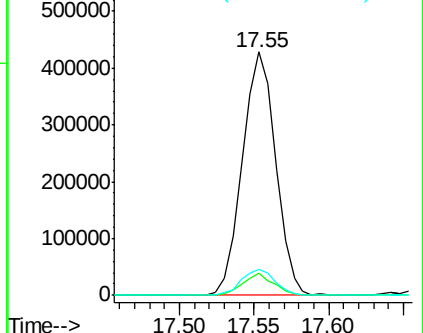
80 10.6 7.2 10.8



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



#70

Phenanthrene

Concen: 2.11 ng

RT: 17.60 min Scan# 2513

Delta R.T. 0.01 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

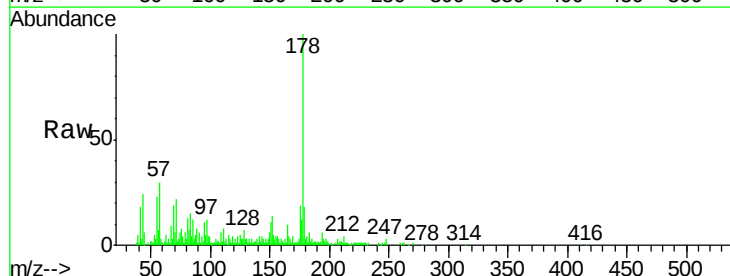
Tgt Ion:178 Resp: 70721

Ion Ratio Lower Upper

178 100

176 19.2 16.8 25.2

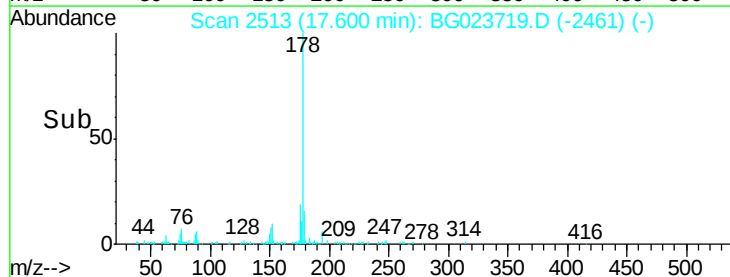
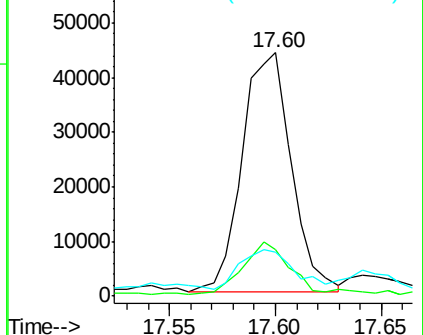
179 18.1 14.3 21.5

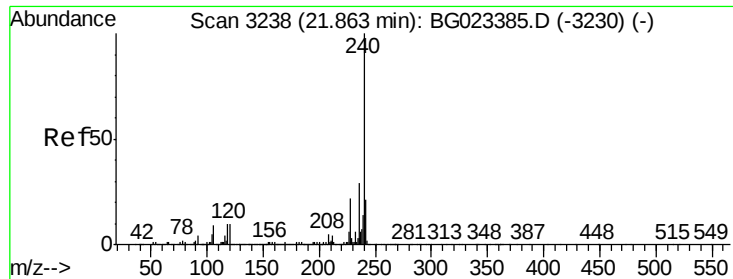


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

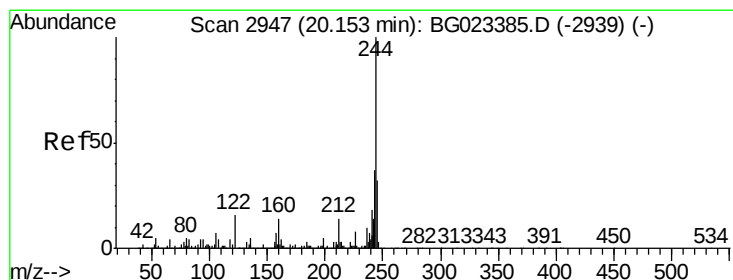
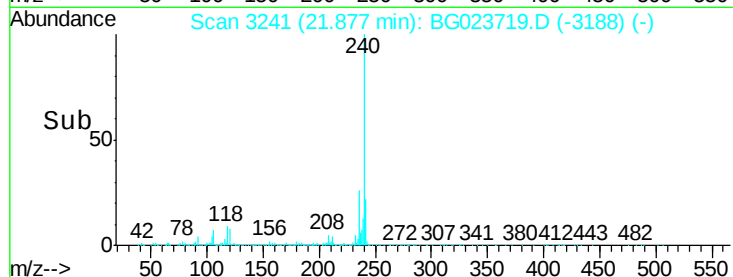
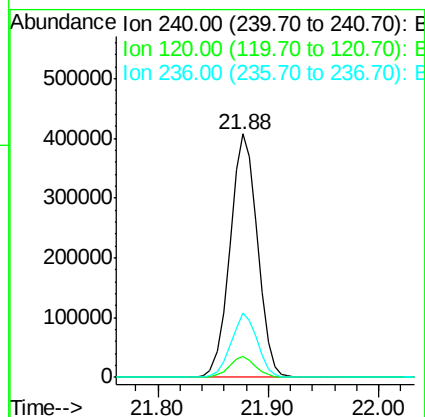
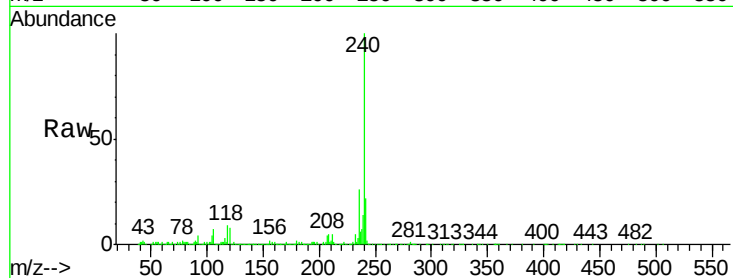




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.88 min Scan# 3241  
Delta R.T. 0.01 min  
Lab File: BG023719.D  
Acq: 15 Aug 2016 13:27

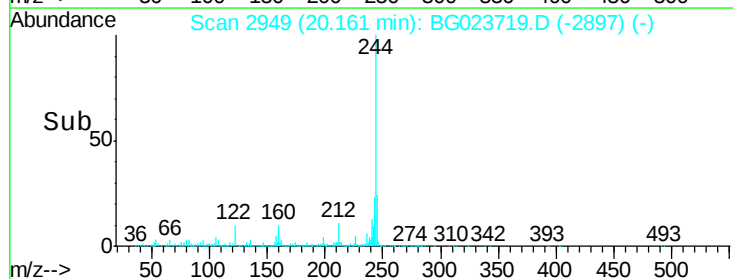
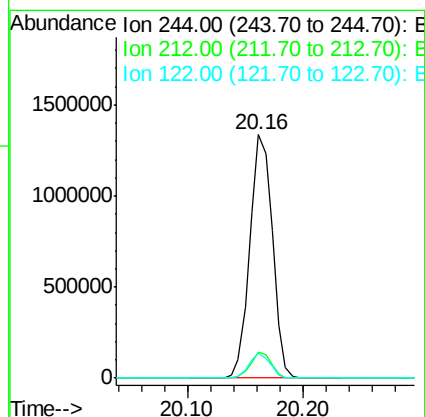
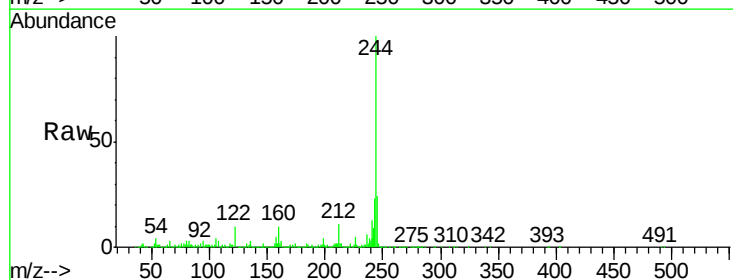
Instrument :  
BNA\_G  
ClientSampled :  
P-1

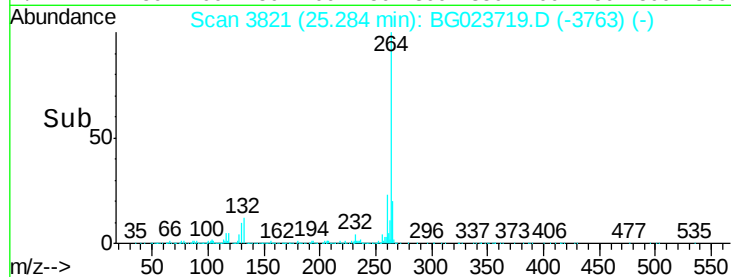
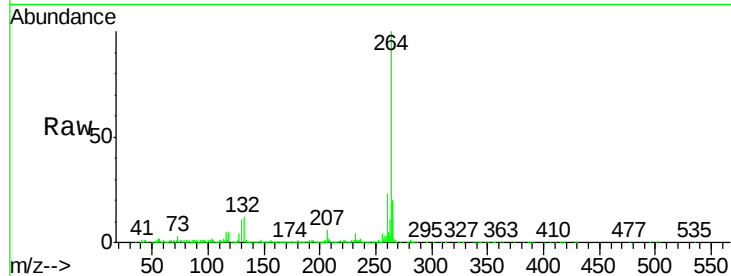
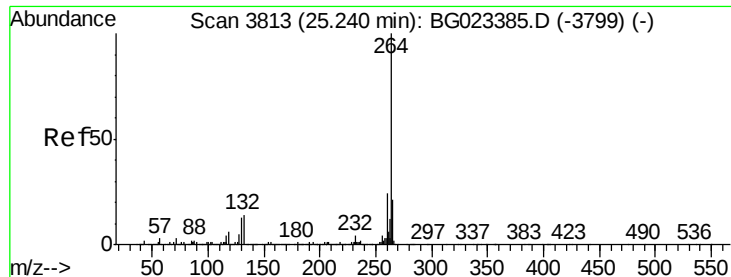
Tgt Ion:240 Resp: 708398  
Ion Ratio Lower Upper  
240 100  
120 8.5 4.1 6.1#  
236 26.3 21.1 31.7



#78  
Terphenyl-d14  
Concen: 79.38 ng  
RT: 20.16 min Scan# 2949  
Delta R.T. 0.01 min  
Lab File: BG023719.D  
Acq: 15 Aug 2016 13:27

Tgt Ion:244 Resp: 1825577  
Ion Ratio Lower Upper  
244 100  
212 10.6 10.8 16.2#  
122 10.3 8.0 12.0





#86

Perylene-d12

Concen: 20.00 ng

RT: 25.28 min Scan# 3821

Delta R.T. 0.04 min

Lab File: BG023719.D

Acq: 15 Aug 2016 13:27

Instrument :

BNA\_G

ClientSampleId :

P-1

Tgt Ion:264 Resp: 719944

Ion Ratio Lower Upper

264 100

260 23.1 18.4 27.6

265 20.0 18.9 28.3

