

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060717\  
 Data File : BG027304.D  
 Acq On : 8 Jun 2017 4:27  
 Operator : SJ/MA  
 Sample : I3488-06  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TR-04-060517-B

Quant Time: Jun 08 07:29:50 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 05 16:00:35 2017  
 Response via : Initial Calibration

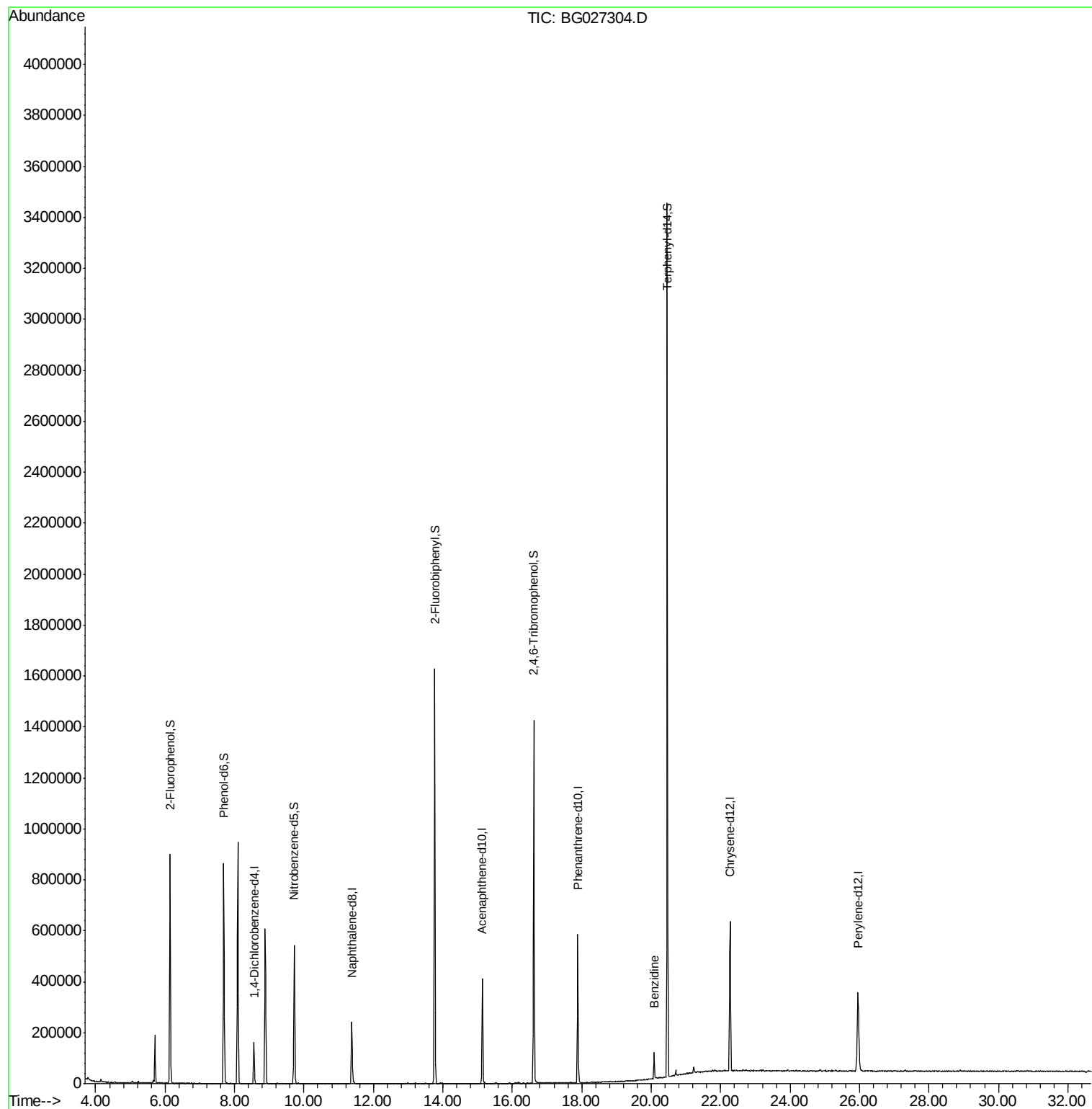
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.56  | 152  | 47153    | 20.00  | ng    | -0.02        |
| 21) Naphthalene-d8          | 11.38 | 136  | 221408   | 20.00  | ng    | -0.02        |
| 38) Acenaphthene-d10        | 15.13 | 164  | 146425   | 20.00  | ng    | -0.02        |
| 63) Phenanthrene-d10        | 17.88 | 188  | 371281   | 20.00  | ng    | -0.03        |
| 75) Chrysene-d12            | 22.27 | 240  | 413639   | 20.00  | ng    | -0.04        |
| 86) Perylene-d12            | 25.95 | 264  | 383981   | 20.00  | ng    | -0.07        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 6.15  | 112  | 428476   | 138.66 | ng    | -0.01        |
| 7) Phenol-d6                | 7.69  | 99   | 563344   | 124.20 | ng    | -0.01        |
| 23) Nitrobenzene-d5         | 9.72  | 82   | 370660   | 105.28 | ng    | -0.02        |
| 41) 2,4,6-Tribromophenol    | 16.62 | 330  | 294467   | 152.72 | ng    | -0.02        |
| 44) 2-Fluorobiphenyl        | 13.77 | 172  | 890663   | 85.10  | ng    | -0.02        |
| 78) Terphenyl-d14           | 20.46 | 244  | 1566219  | 96.59  | ng    | -0.03        |
| Target Compounds            |       |      |          |        |       |              |
| 76) Benzidine               | 20.09 | 184  | 63744    | 5.12   | ng    | Qvalue<br>97 |

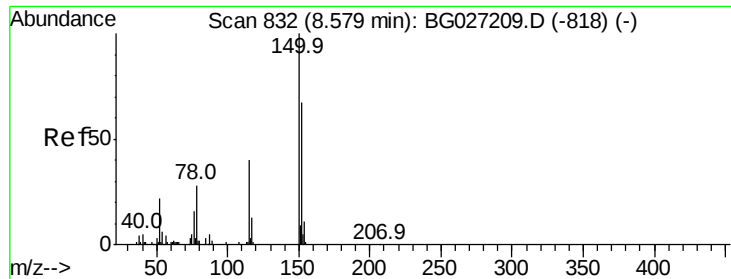
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.56 min Scan# 829

Delta R.T. -0.02 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

Instrument :

BNA\_G

ClientSampleId :

TR-04-060517-B

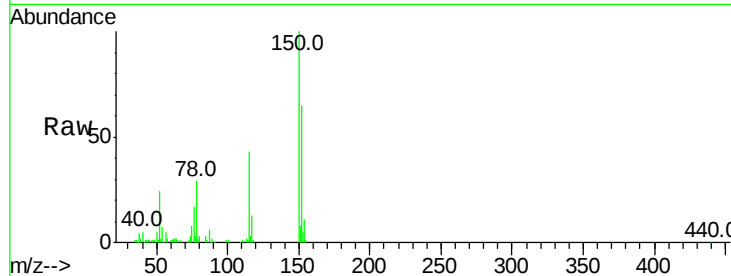
Tot Ion:152 Resp: 47153

Ion Ratio Lower Upper

152 100

150 153.2 114.0 171.0

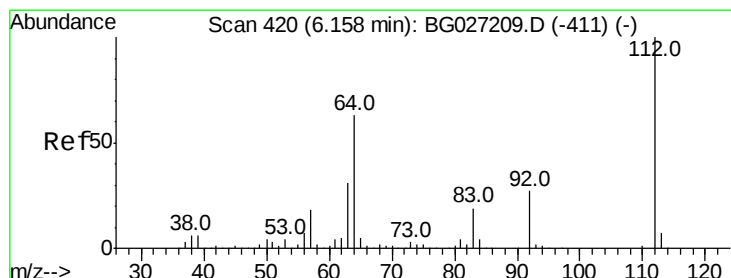
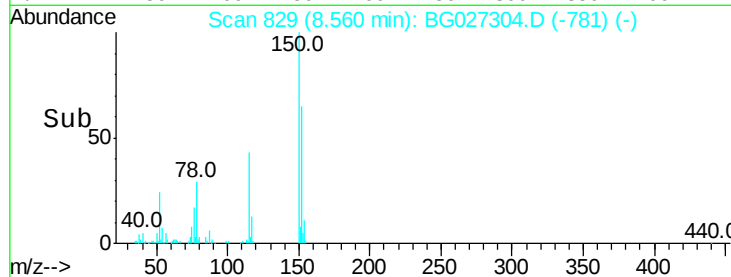
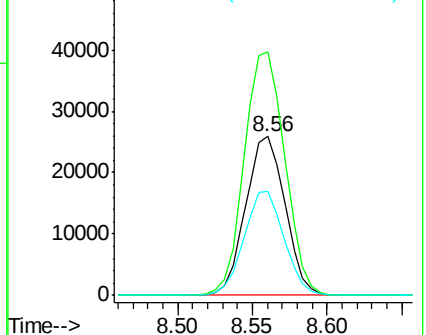
115 65.7 48.1 72.1



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: 138.66 ng

RT: 6.15 min Scan# 418

Delta R.T. -0.01 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

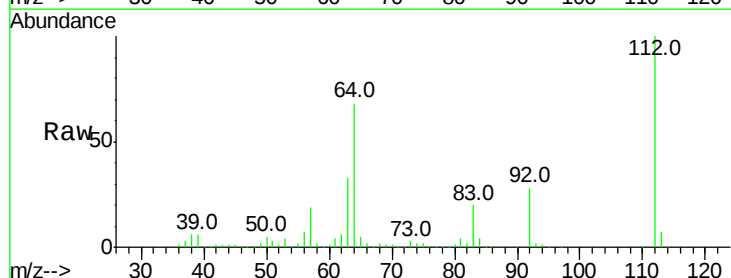
Tgt Ion:112 Resp: 428476

Ion Ratio Lower Upper

112 100

64 67.8 61.8 92.6

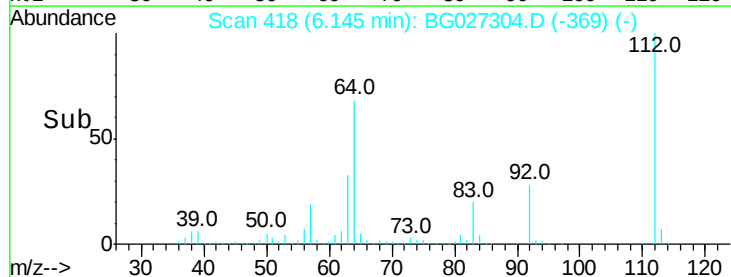
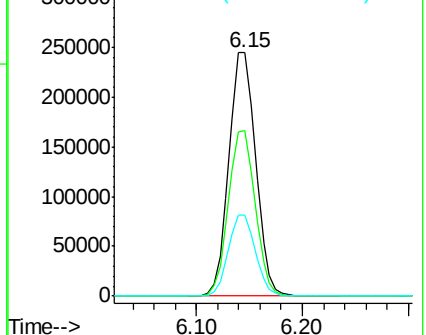
63 33.2 37.2 55.8#

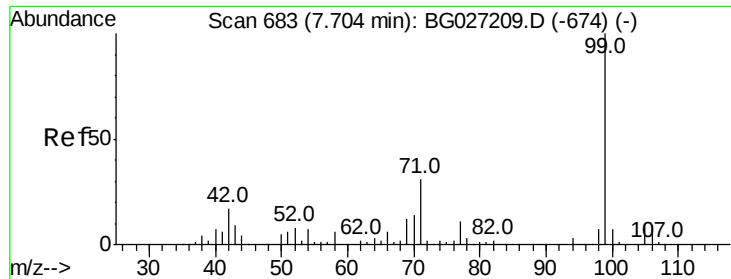


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 124.20 ng

RT: 7.69 min Scan# 681

Delta R.T. -0.01 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

Instrument :

BNA\_G

ClientSampleId :

TR-04-060517-B

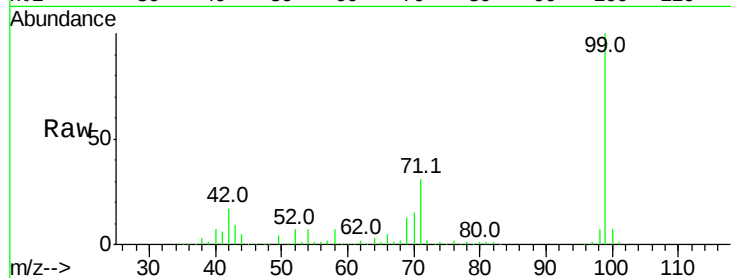
Tot Ion: 99 Resp: 563344

Ion Ratio Lower Upper

99 100

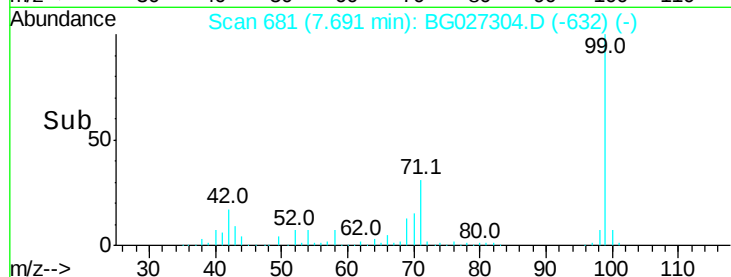
42 16.8 20.5 30.7#

71 31.3 37.6 56.4#

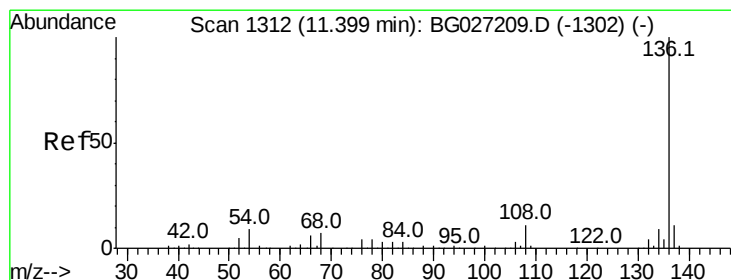


Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC

7.69



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.38 min Scan# 1309

Delta R.T. -0.02 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

Tgt Ion: 136 Resp: 221408

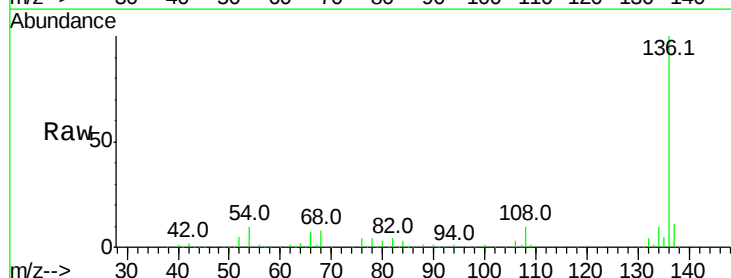
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

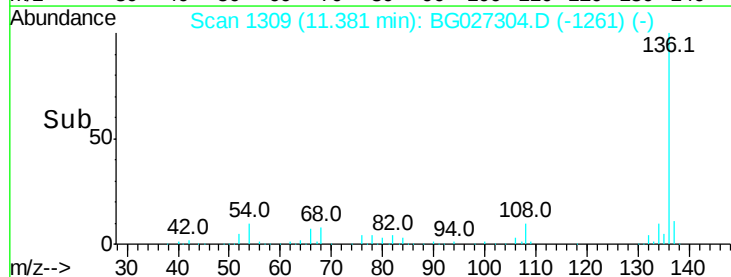
54 10.2 9.3 13.9

68 7.8 5.1 7.7#

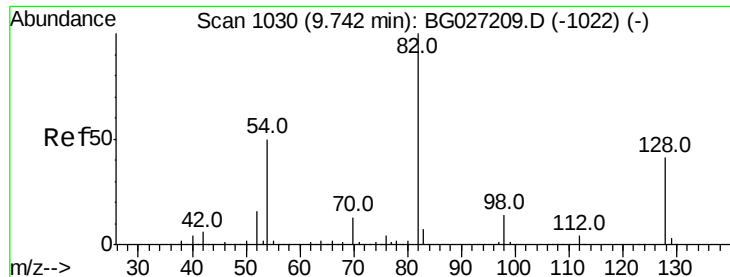


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

11.38



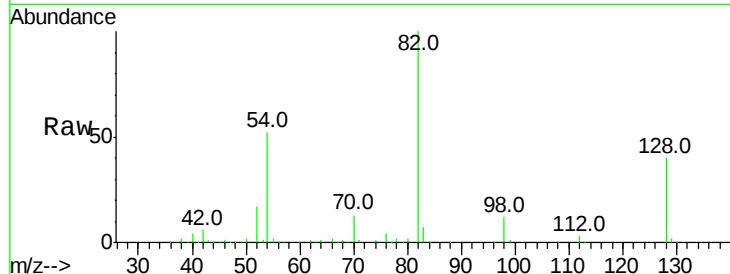
Time-->



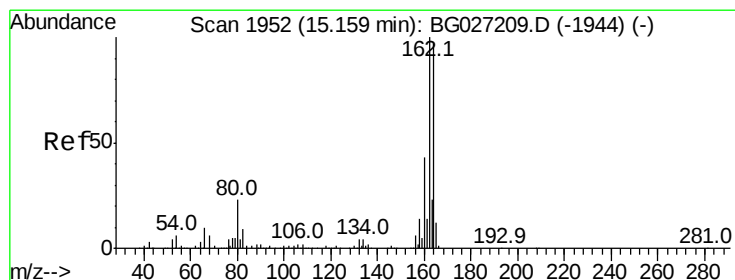
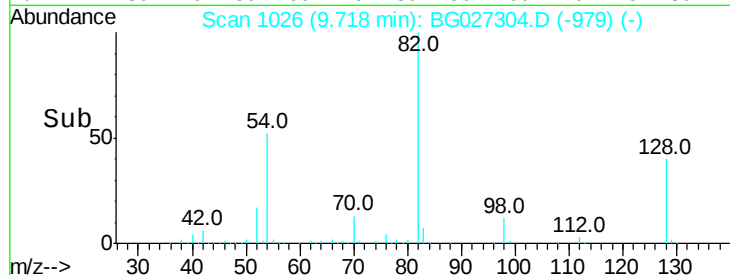
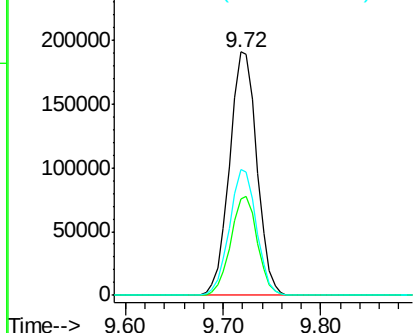
#23  
 Nitrobenzene-d5  
 Concen: 105.28 ng  
 RT: 9.72 min Scan# 1026  
 Delta R.T. -0.02 min  
 Lab File: BG027304.D  
 Acq: 8 Jun 2017 4:27

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TR-04-060517-B

| Tot Ion   | 82    | Resp  | 370660 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.5  | 26.4  | 39.6   |
| 54        | 51.7  | 49.4  | 74.2   |

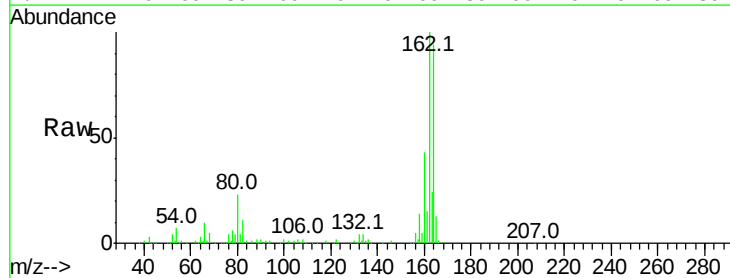


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

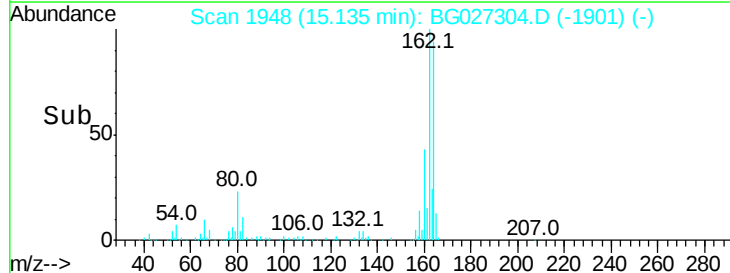
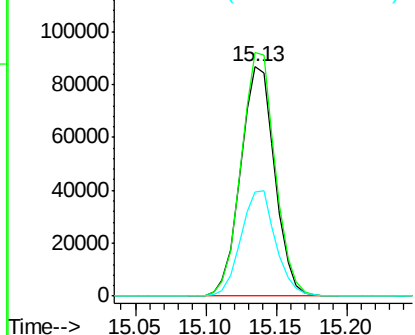


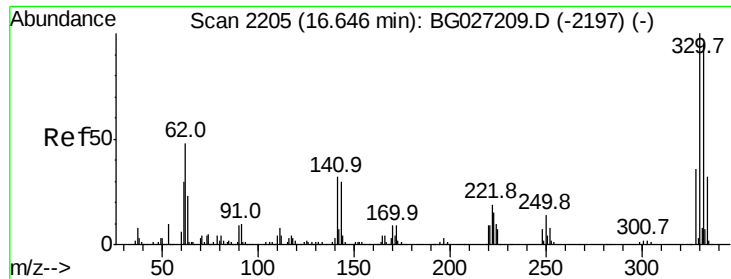
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 15.13 min Scan# 1948  
 Delta R.T. -0.02 min  
 Lab File: BG027304.D  
 Acq: 8 Jun 2017 4:27

| Tgt Ion   | 164   | Resp  | 146425 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.2 | 85.1  | 127.7  |
| 160       | 45.3  | 34.7  | 52.1   |



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

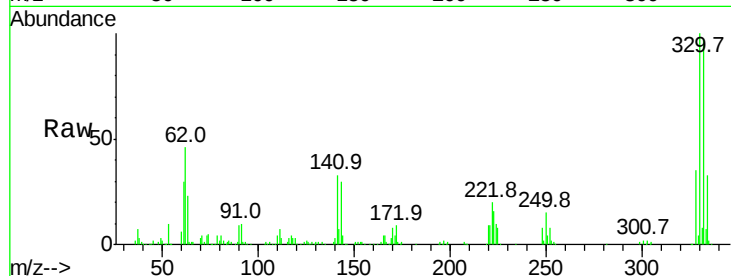




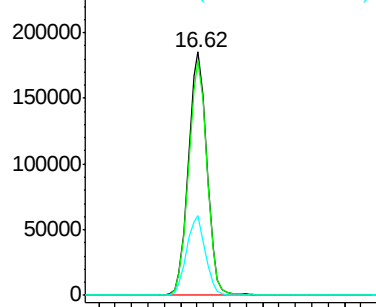
#41  
 2,4,6-Tribromophenol  
 Concen: 152.72 ng  
 RT: 16.62 min Scan# 2201  
 Delta R.T. -0.02 min  
 Lab File: BG027304.D  
 Acq: 8 Jun 2017 4:27

Instrument :  
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 ClientSampleId :  
 TR-04-060517-B

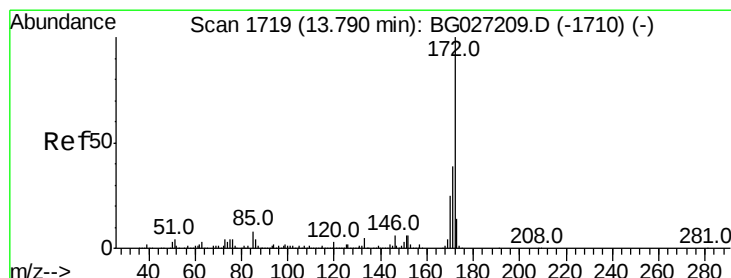
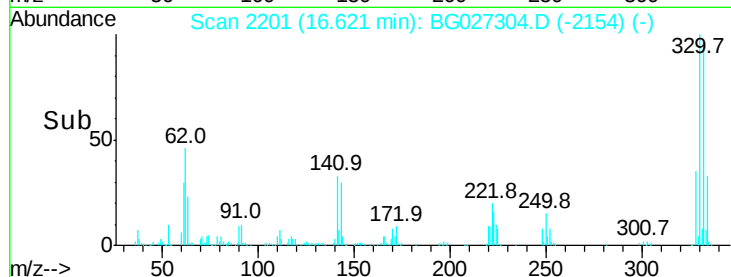
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 77.3  | 115.9 |
| 141     | 33.0  | 32.1  | 48.1  |



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

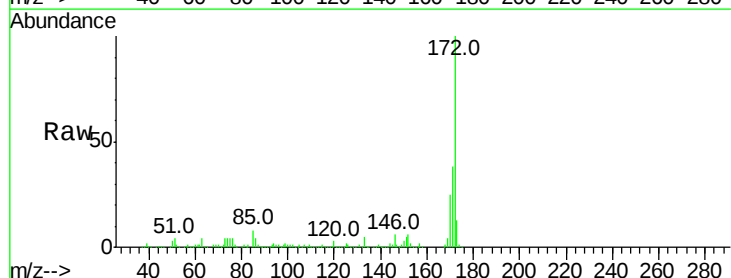


Time--> 16.50 16.60 16.70 16.80

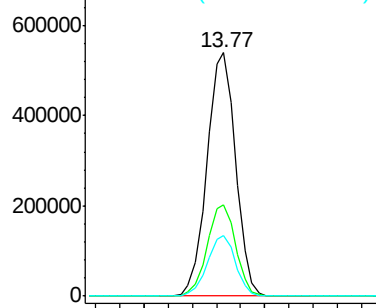


#44  
 2-Fluorobiphenyl  
 Concen: 85.10 ng  
 RT: 13.77 min Scan# 1715  
 Delta R.T. -0.02 min  
 Lab File: BG027304.D  
 Acq: 8 Jun 2017 4:27

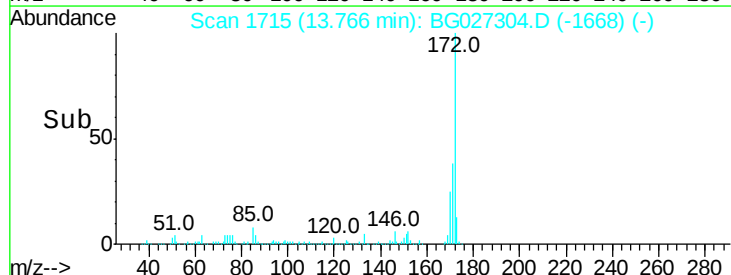
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 32.2  | 48.2  |
| 170     | 25.0  | 21.8  | 32.6  |

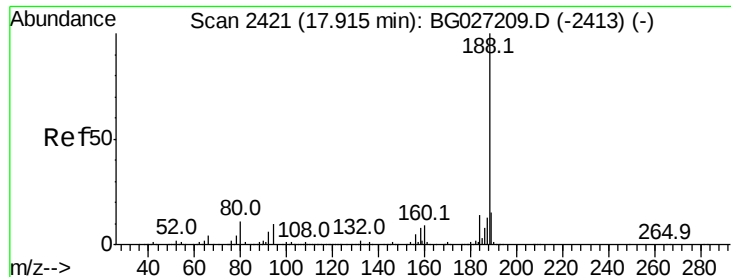


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



Time--> 13.70 13.80

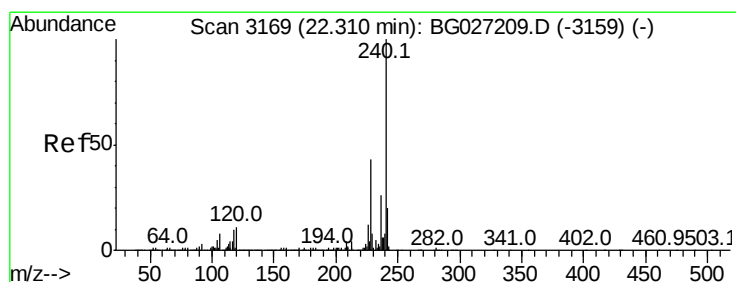
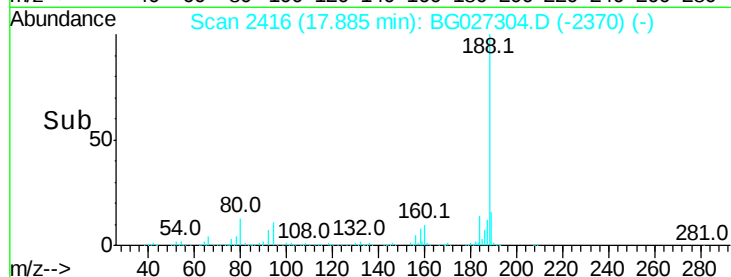
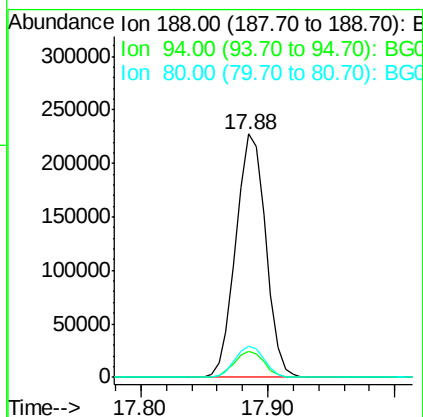
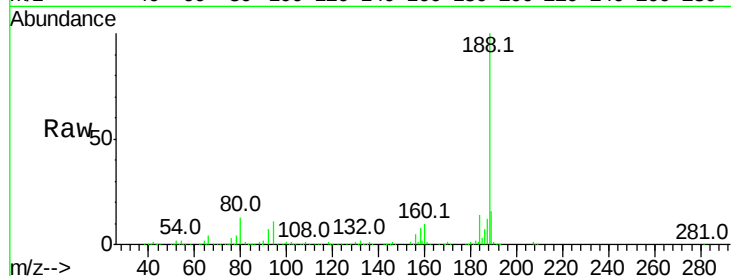




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.88 min Scan# 2416  
Delta R.T. -0.03 min  
Lab File: BG027304.D  
Acq: 8 Jun 2017 4:27

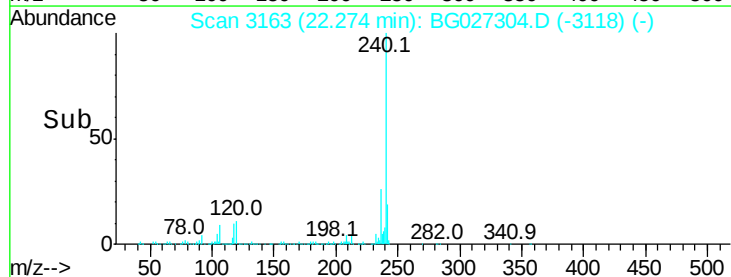
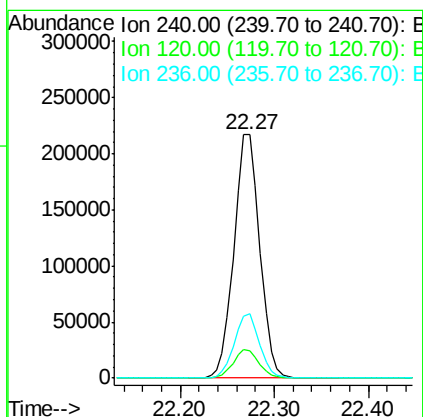
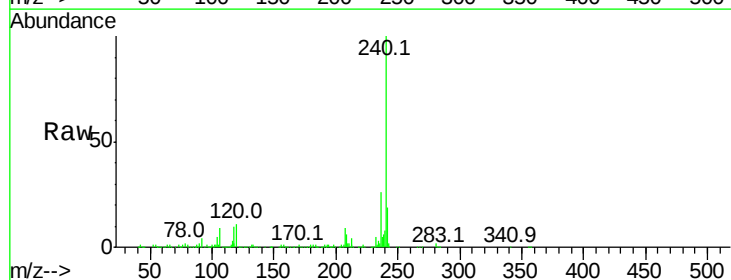
Instrument :  
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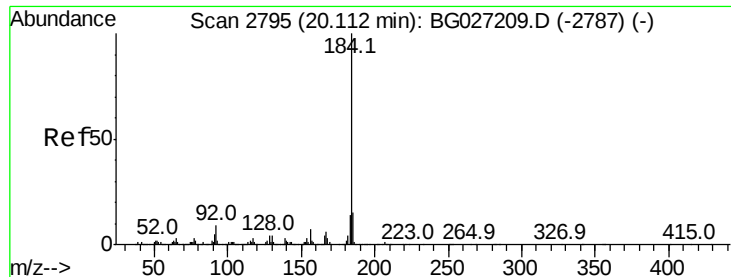
Tot Ion:188 Resp: 371281  
Ion Ratio Lower Upper  
188 100  
94 10.8 5.8 8.8#  
80 12.7 7.5 11.3#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.27 min Scan# 3163  
Delta R.T. -0.04 min  
Lab File: BG027304.D  
Acq: 8 Jun 2017 4:27

Tgt Ion:240 Resp: 413639  
Ion Ratio Lower Upper  
240 100  
120 11.4 5.7 8.5#  
236 26.2 22.2 33.4





#76

Benzidine

Concen: 5.12 ng

RT: 20.09 min Scan# 2791

Delta R.T. -0.02 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

Instrument :

BNA\_G

ClientSampleId :

TR-04-060517-B

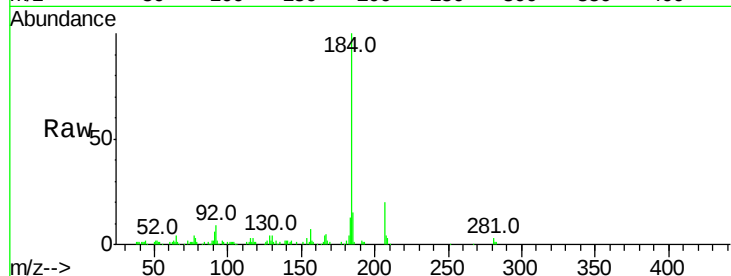
Tot Ion:184 Resp: 63744

Ion Ratio Lower Upper

184 100

185 14.6 13.0 19.6

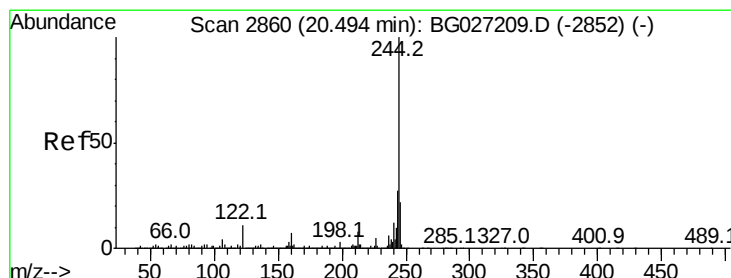
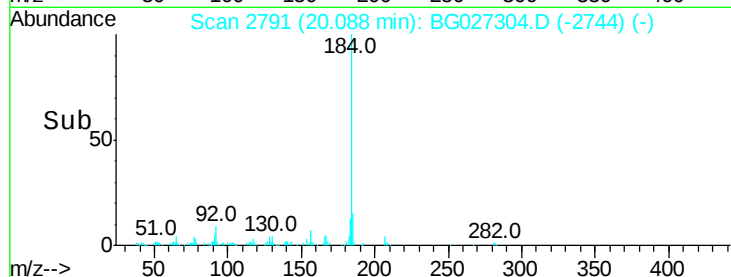
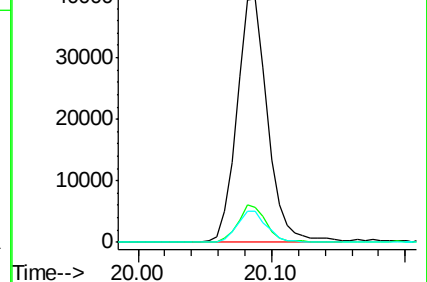
183 13.0 11.0 16.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 96.59 ng

RT: 20.46 min Scan# 2855

Delta R.T. -0.03 min

Lab File: BG027304.D

Acq: 8 Jun 2017 4:27

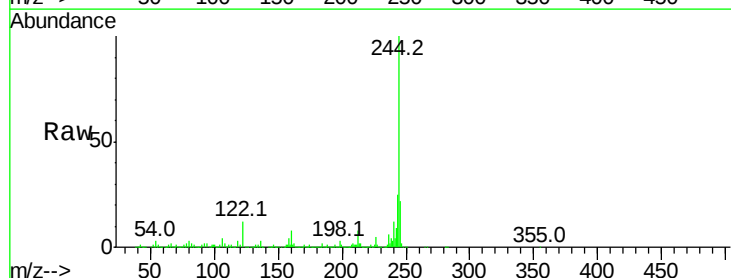
Tgt Ion:244 Resp: 1566219

Ion Ratio Lower Upper

244 100

212 8.1 10.0 15.0#

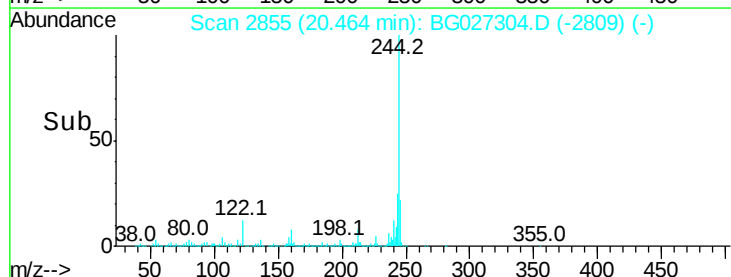
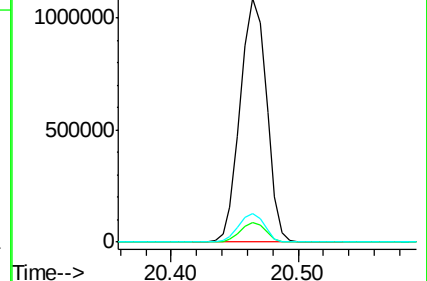
122 11.7 8.6 12.8

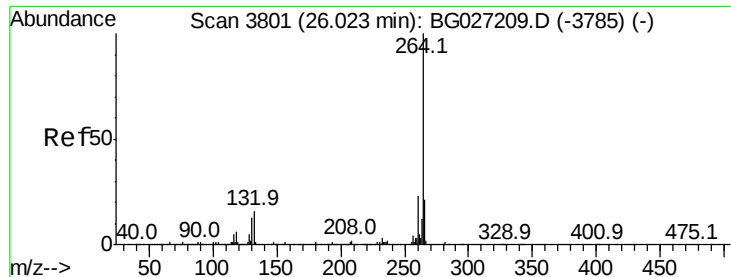


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

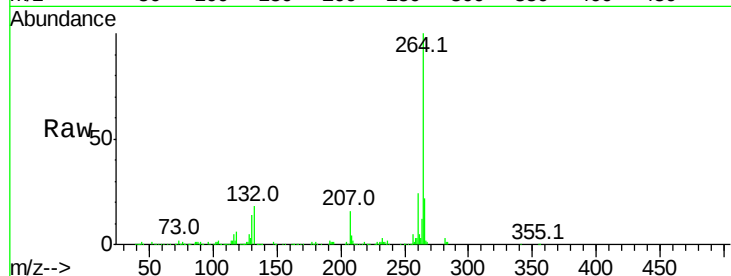




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.95 min Scan# 3789  
Delta R.T. -0.07 min  
Lab File: BG027304.D  
Acq: 8 Jun 2017 4:27

Instrument :  
BNA\_G  
ClientSampleId :  
TR-04-060517-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 21.8  | 32.8  |
| 265     | 21.5  | 18.2  | 27.4  |



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

