

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041917\  
 Data File : BG026674.D  
 Acq On : 20 Apr 2017 3:28  
 Operator : SJ/MA  
 Sample : I2751-09  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 20 06:47:45 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 18 18:04:39 2017  
 Response via : Initial Calibration

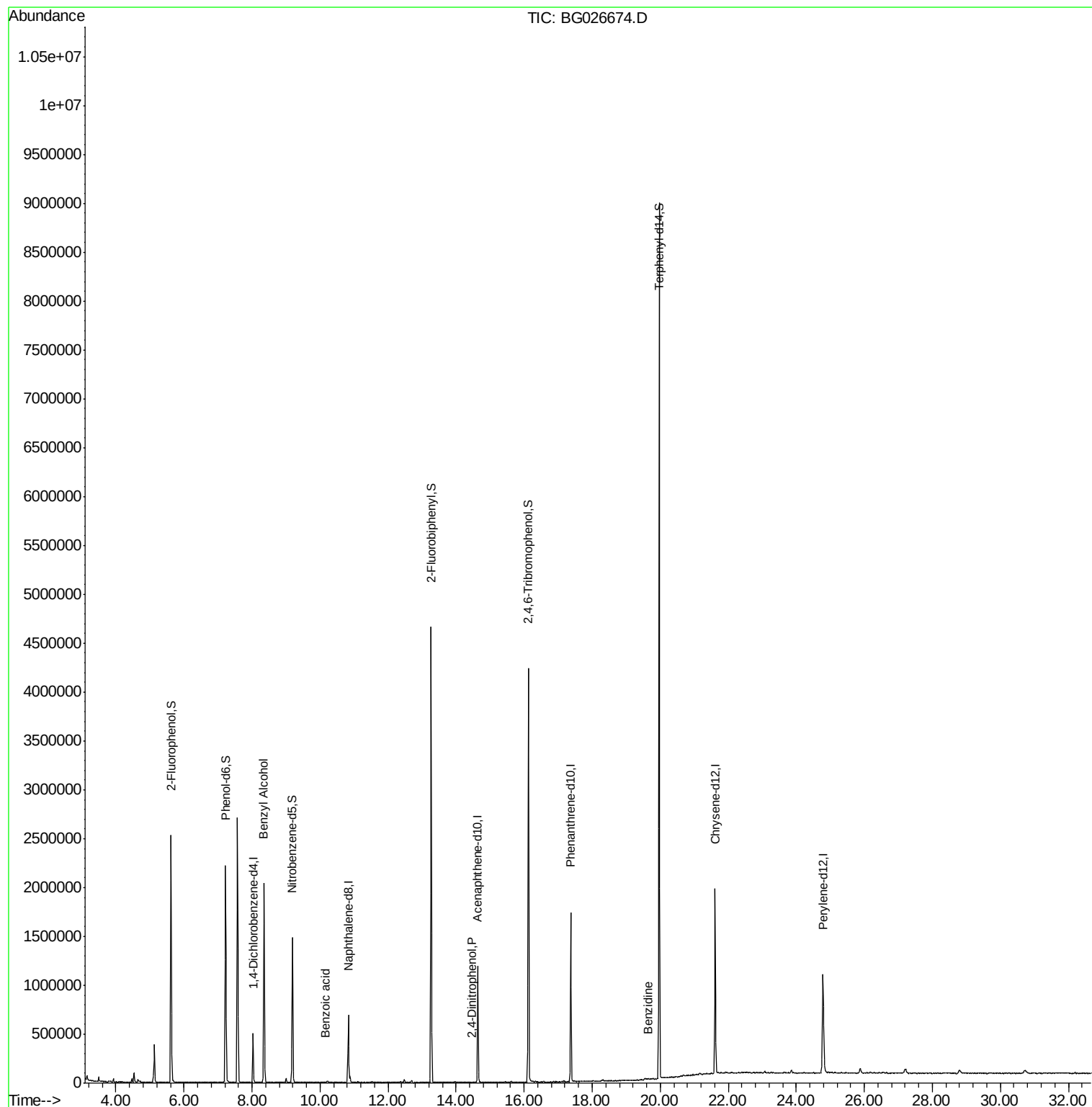
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.03  | 152  | 156738   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.83 | 136  | 671561   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 14.64 | 164  | 416874   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.37 | 188  | 1123534  | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 21.62 | 240  | 1205792  | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 24.79 | 264  | 965850   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.62  | 112  | 1293462  | 150.02 | ng    | 0.00     |
| 7) Phenol-d6                | 7.22  | 99   | 1615455  | 142.99 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 9.19  | 82   | 955505   | 99.28  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.12 | 330  | 874205   | 150.50 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.26 | 172  | 2595374  | 92.72  | ng    | -0.02    |
| 78) Terphenyl-d14           | 19.97 | 244  | 3759355  | 92.04  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 15) Benzyl Alcohol          | 8.35  | 79   | 14488    | 2.05   | ng    | # 53     |
| 32) Benzoic acid            | 10.16 | 122  | 54       | 9.02   | ng    | # 24     |
| 53) 2,4-Dinitrophenol       | 14.48 | 184  | 64       | 8.76   | ng    | # 15     |
| 76) Benzidine               | 19.65 | 184  | 60       | 3.72   | ng    | # 1      |

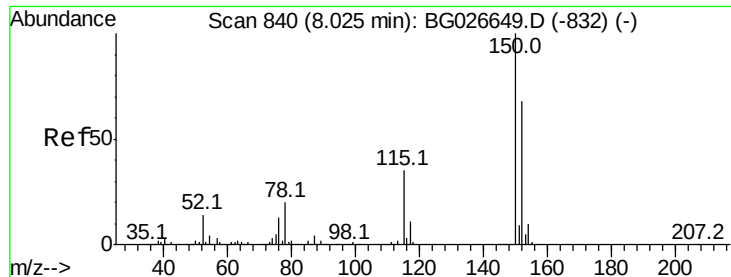
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Apr 20 06:47:45 2017  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 18 18:04:39 2017  
Response via : Initial Calibration



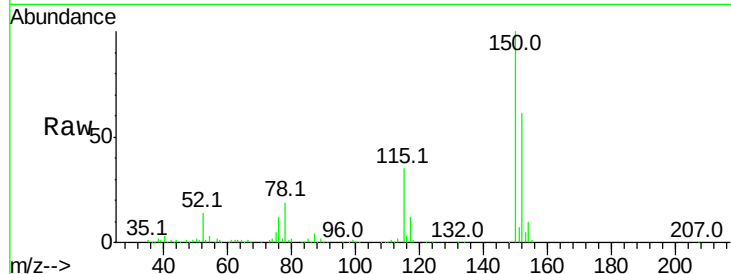


#1

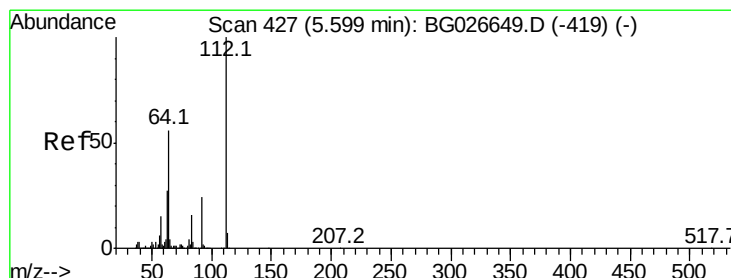
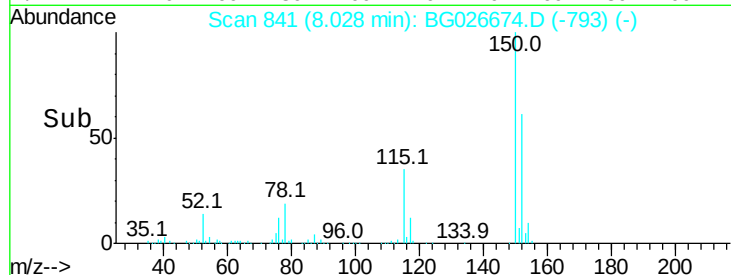
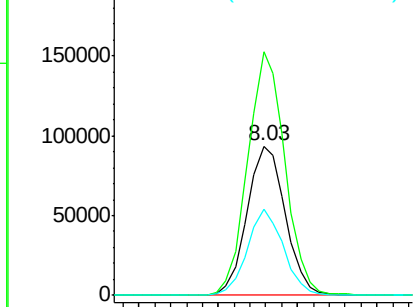
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.03 min Scan# 841  
Delta R.T. -0.02 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 156738  
Ion Ratio Lower Upper  
152 100  
150 163.3 114.0 171.0  
115 57.7 48.1 72.1



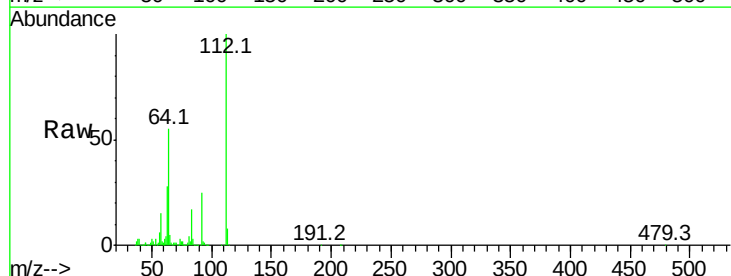
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



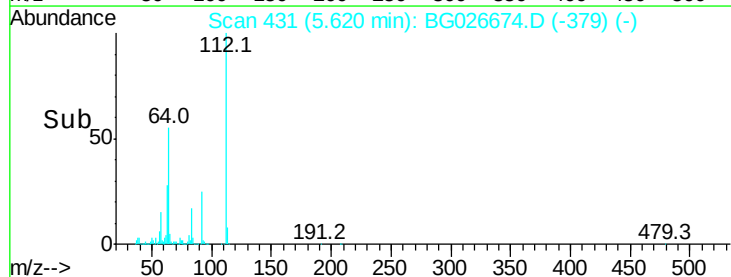
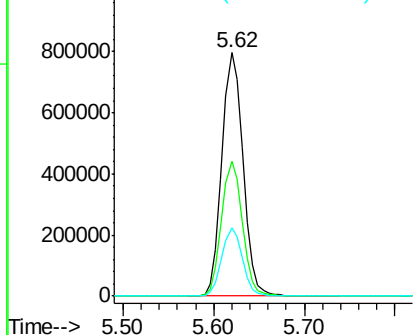
#5

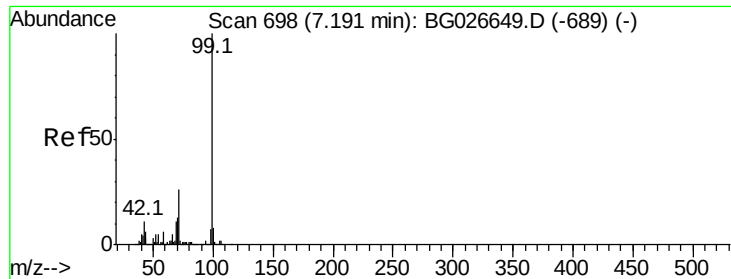
2-Fluorophenol  
Concen: 150.02 ng  
RT: 5.62 min Scan# 431  
Delta R.T. 0.01 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

Tgt Ion:112 Resp: 1293462  
Ion Ratio Lower Upper  
112 100  
64 55.2 61.8 92.6#  
63 27.8 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: 142.99 ng

RT: 7.22 min Scan# 704

Delta R.T. 0.02 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

Instrument :

BNA\_G

ClientSampleId :

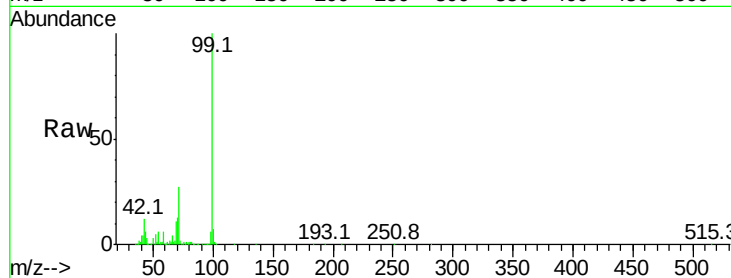
Tot Ion: 99 Resp: 1615455

Ion Ratio Lower Upper

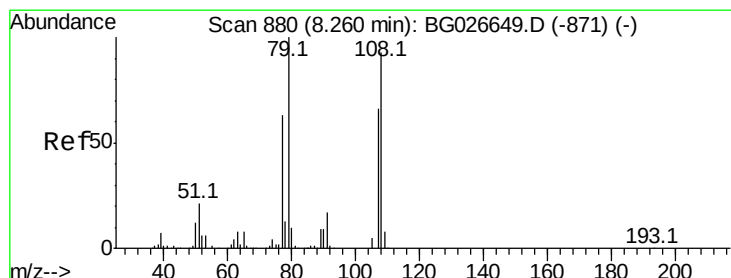
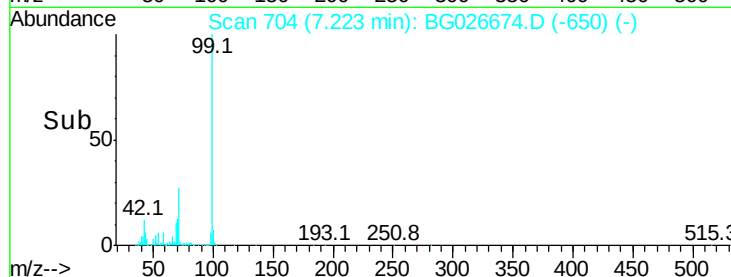
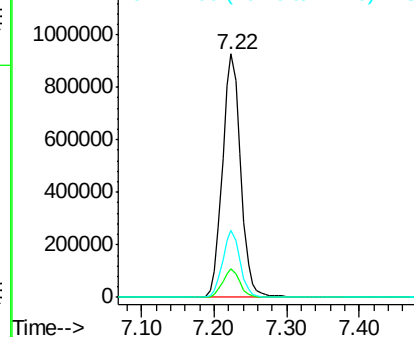
99 100

42 11.6 20.5 30.7#

71 27.3 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



#15

Benzyl Alcohol

Concen: 2.05 ng

RT: 8.35 min Scan# 896

Delta R.T. 0.07 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

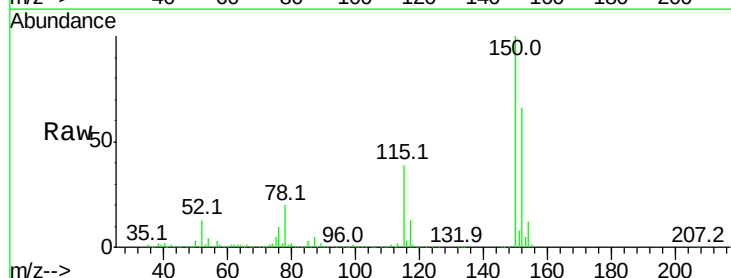
Tgt Ion: 79 Resp: 14488

Ion Ratio Lower Upper

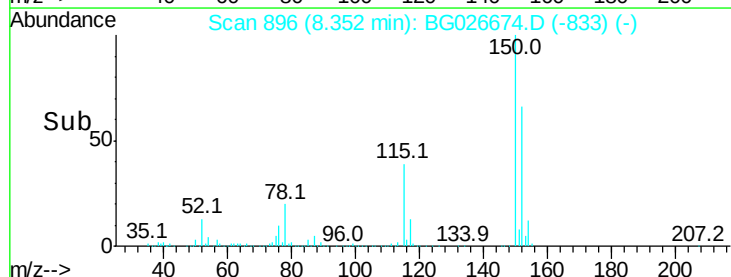
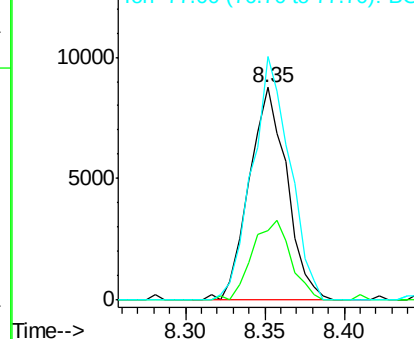
79 100

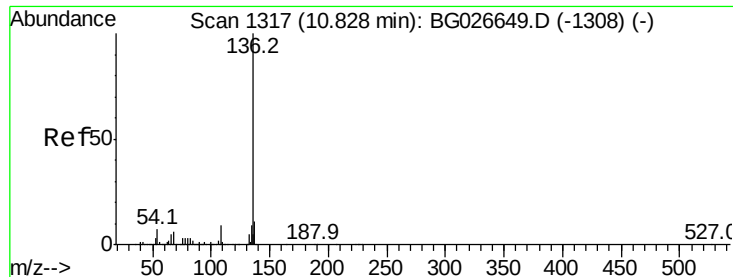
108 32.6 45.5 68.3#

77 114.6 54.3 81.5#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

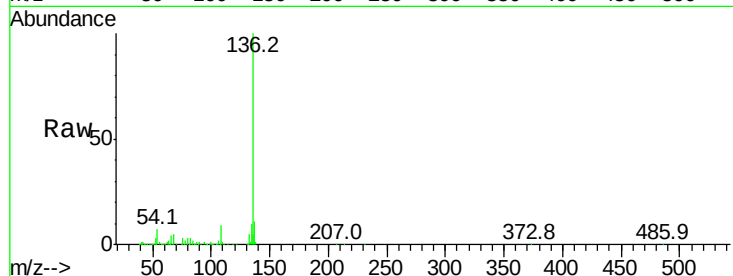




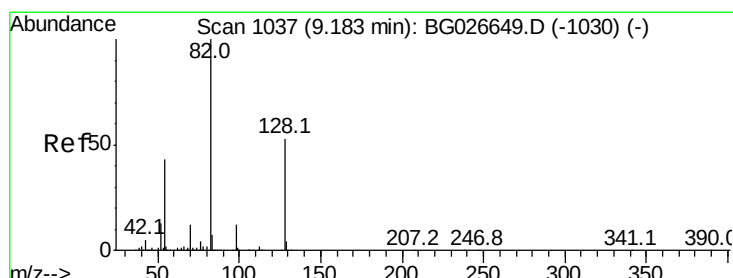
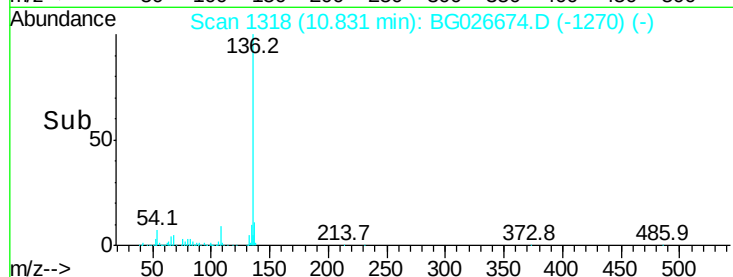
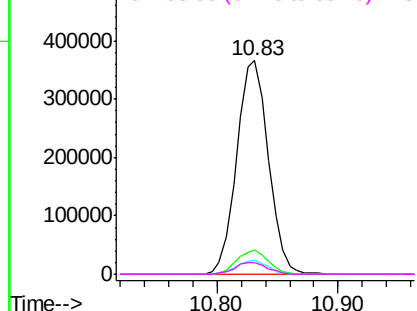
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.83 min Scan# 1318  
Delta R.T. -0.02 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

Instrument :  
BNA\_G  
ClientSampled :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 671561 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.2    | 8.9   | 13.3   |
| 54 6.6      | 9.3   | 13.9#  |
| 68 5.3      | 5.1   | 7.7    |

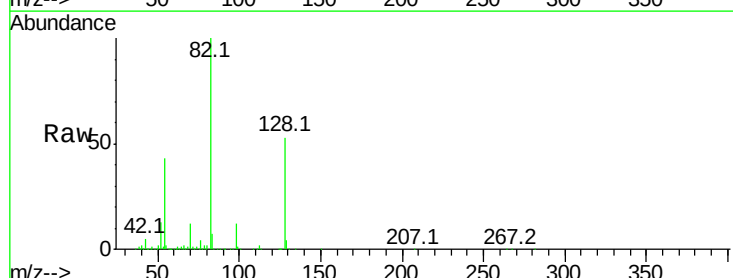


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

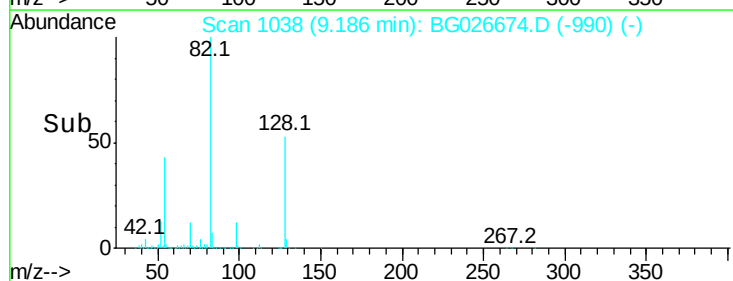
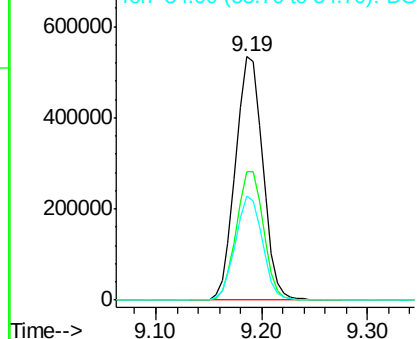


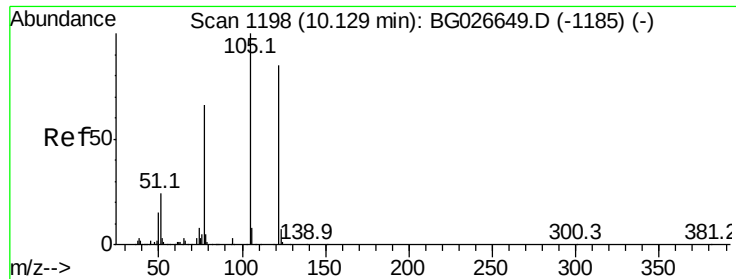
#23  
Nitrobenzene-d5  
Concen: 99.28 ng  
RT: 9.19 min Scan# 1038  
Delta R.T. -0.02 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

|             |       |        |
|-------------|-------|--------|
| Tgt Ion: 82 | Resp: | 955505 |
| Ion Ratio   | Lower | Upper  |
| 82 100      |       |        |
| 128 52.7    | 26.4  | 39.6#  |
| 54 43.0     | 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

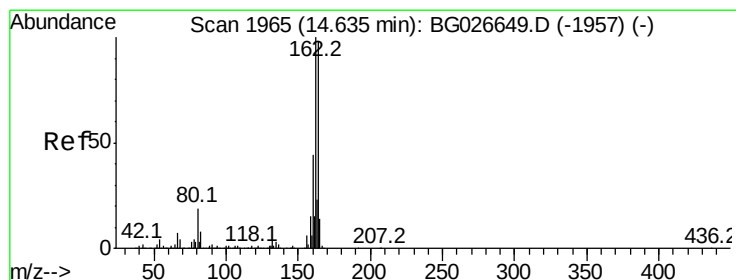
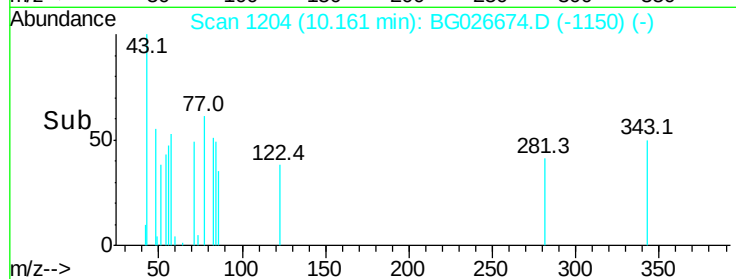
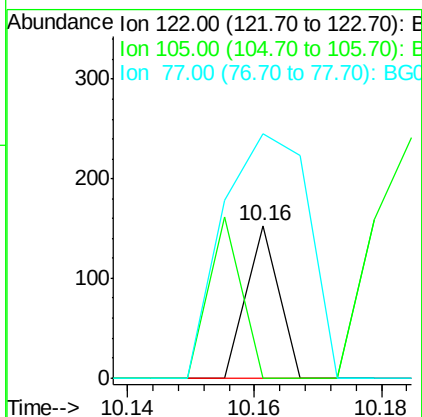
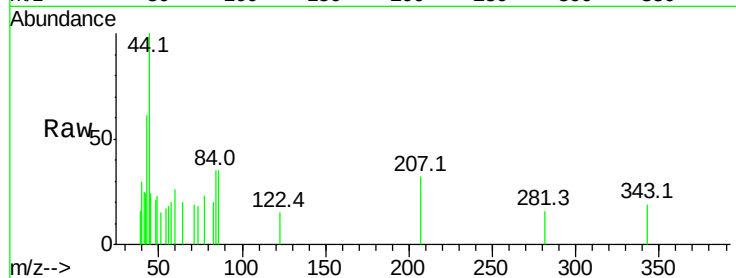




#32  
Benzoic acid  
Concen: 9.02 ng  
RT: 10.16 min Scan# 1204  
Delta R.T. 0.02 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

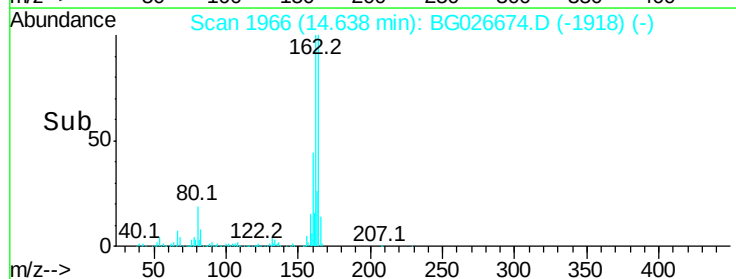
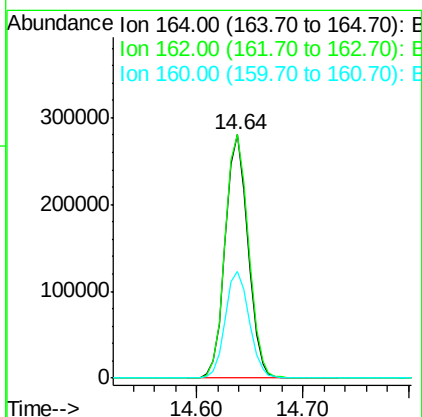
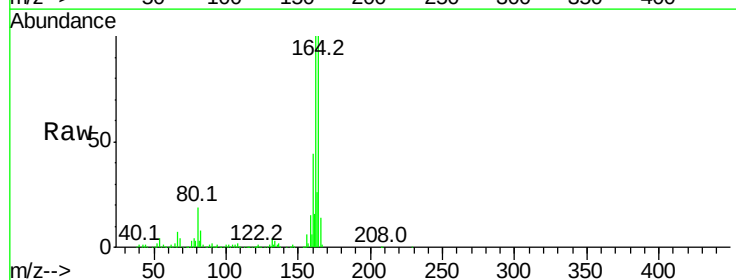
Instrument :  
BNA\_G  
ClientSampleId :

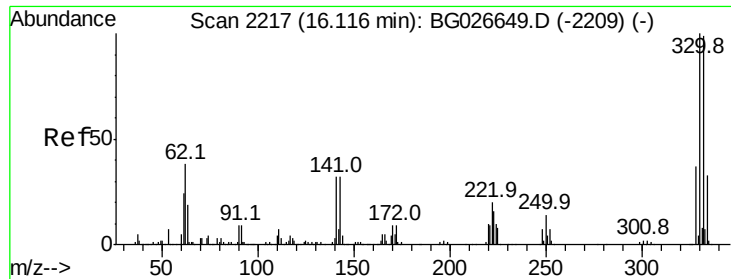
Tot Ion:122 Resp: 54  
Ion Ratio Lower Upper  
122 100  
105 0.0 120.1 160.1#  
77 160.1 104.6 144.6#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.64 min Scan# 1966  
Delta R.T. -0.02 min  
Lab File: BG026674.D  
Acq: 20 Apr 2017 3:28

Tgt Ion:164 Resp: 416874  
Ion Ratio Lower Upper  
164 100  
162 100.0 85.1 127.7  
160 43.8 34.7 52.1

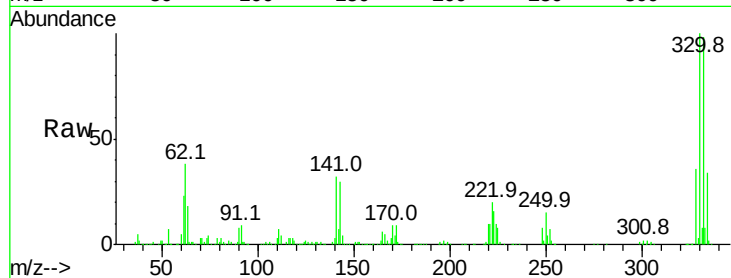




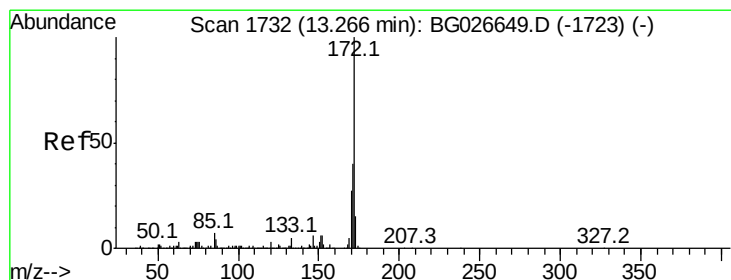
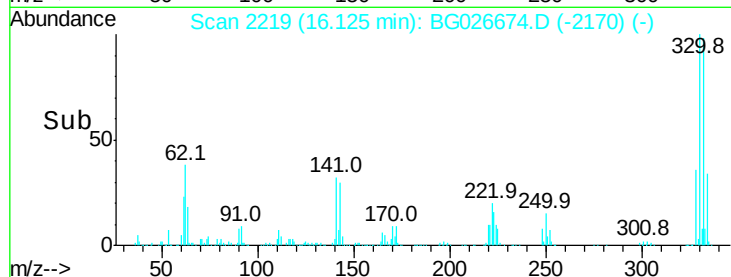
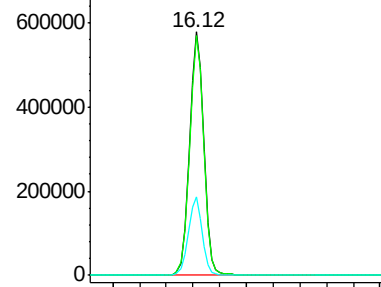
#41  
 2,4,6-Tribromophenol  
 Concen: 150.50 ng  
 RT: 16.12 min Scan# 2219  
 Delta R.T. -0.01 min  
 Lab File: BG026674.D  
 Acq: 20 Apr 2017 3:28

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.3  | 115.9 |
| 141     | 31.2  | 32.1  | 48.1# |

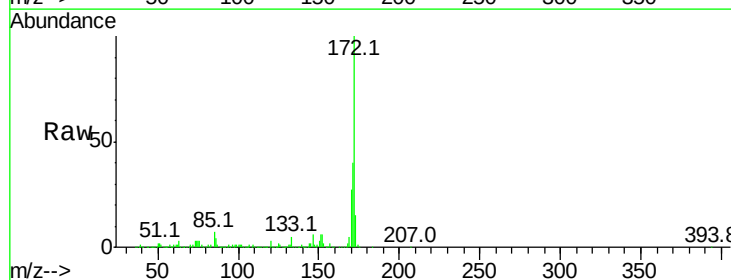


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

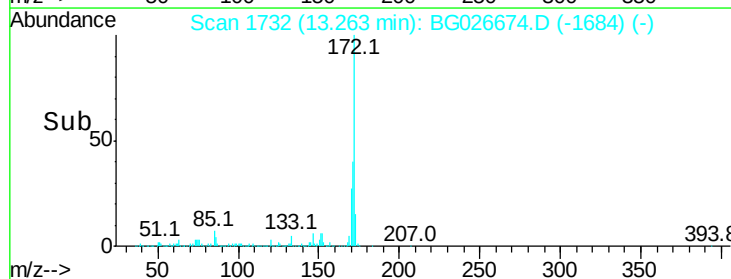
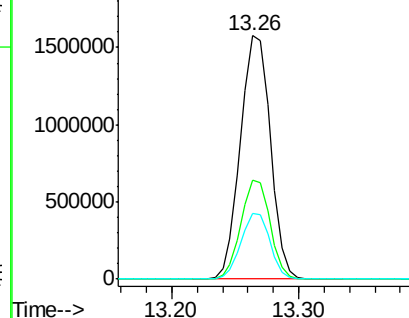


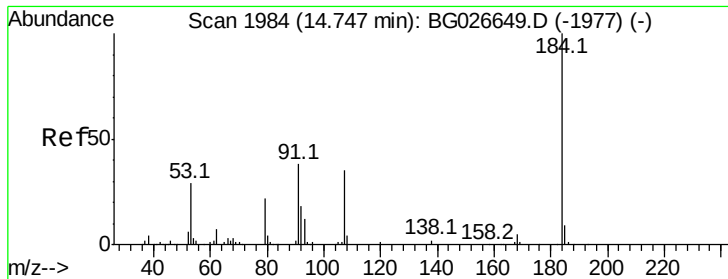
#44  
 2-Fluorobiphenyl  
 Concen: 92.72 ng  
 RT: 13.26 min Scan# 1732  
 Delta R.T. -0.02 min  
 Lab File: BG026674.D  
 Acq: 20 Apr 2017 3:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 40.4  | 32.2  | 48.2  |
| 170     | 26.9  | 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

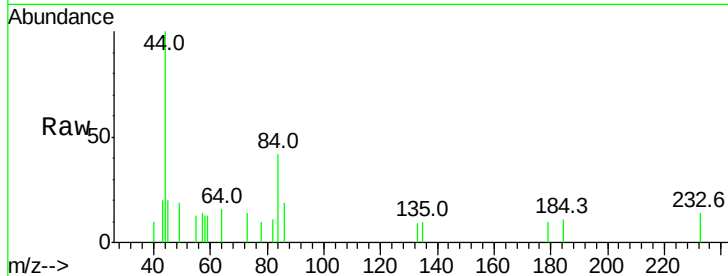




#53  
 2,4-Dinitrophenol  
 Concen: 8.76 ng  
 RT: 14.48 min Scan# 1939  
 Delta R.T. -0.28 min  
 Lab File: BG026674.D  
 Acq: 20 Apr 2017 3:28

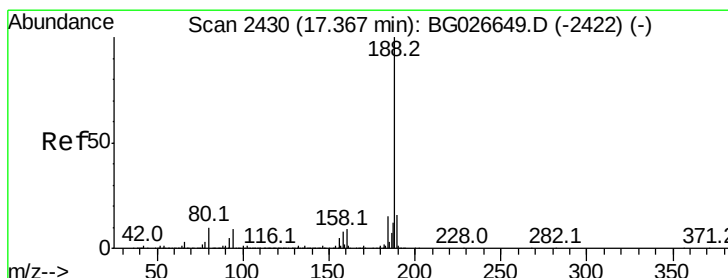
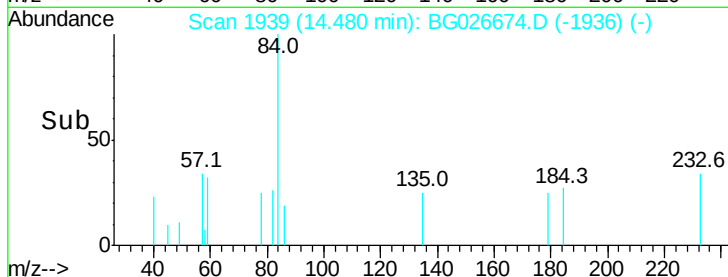
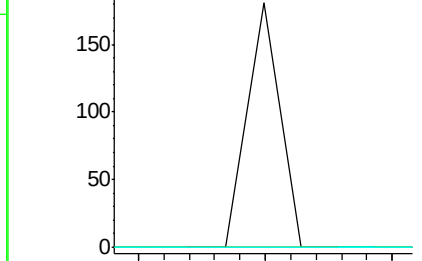
Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:184 Resp: 64  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 52.7 79.1#  
 154 0.0 57.3 85.9#



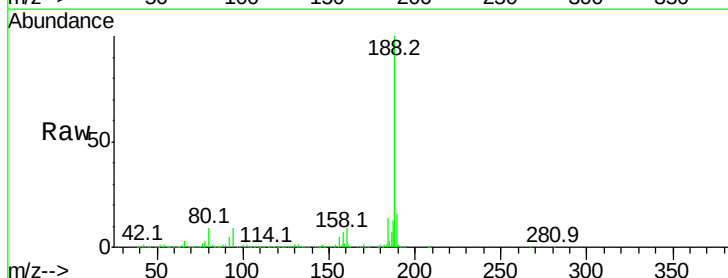
Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 154.00 (153.70 to 154.70): E

14.48



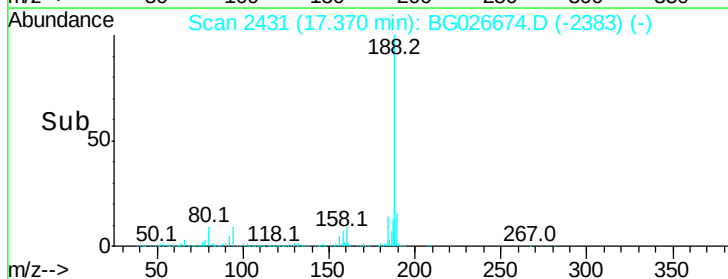
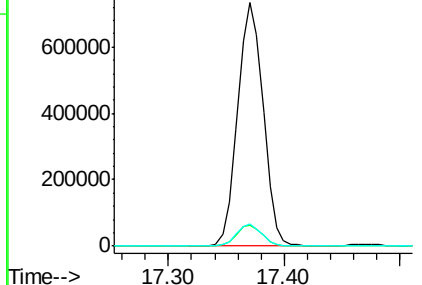
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.37 min Scan# 2431  
 Delta R.T. -0.02 min  
 Lab File: BG026674.D  
 Acq: 20 Apr 2017 3:28

Tgt Ion:188 Resp: 1123534  
 Ion Ratio Lower Upper  
 188 100  
 94 8.6 5.8 8.8  
 80 9.1 7.5 11.3

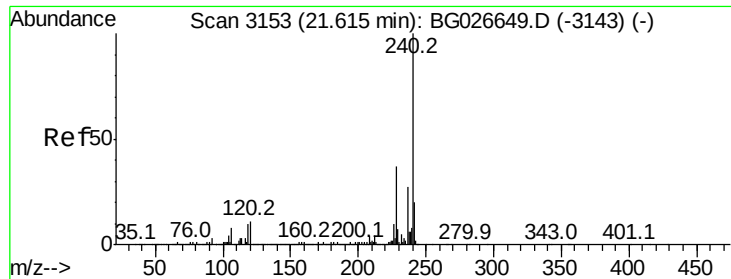


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BG  
 Ion 80.00 (79.70 to 80.70): BG

17.37







#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.62 min Scan# 3154

Delta R.T. -0.02 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

Instrument :

BNA\_G

ClientSampleId :

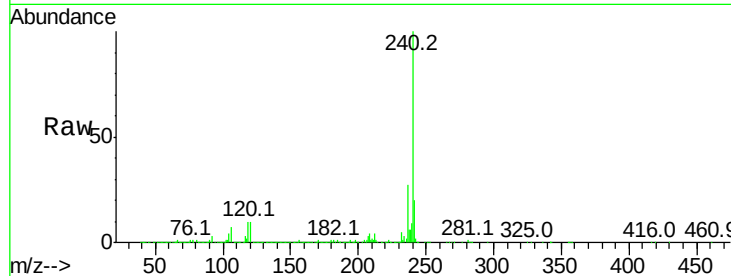
Tot Ion:240 Resp: 1205792

Ion Ratio Lower Upper

240 100

120 10.4 5.7 8.5#

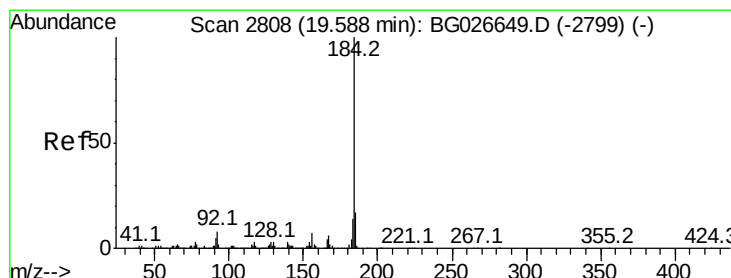
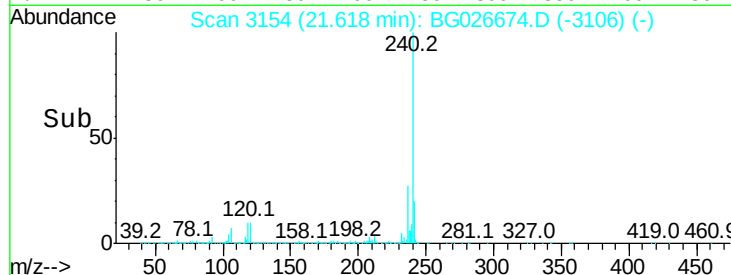
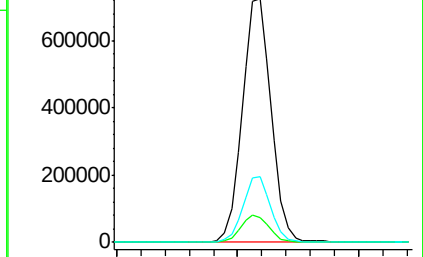
236 26.8 22.2 33.4



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



#76

Benzidine

Concen: 3.72 ng

RT: 19.65 min Scan# 2819

Delta R.T. 0.05 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

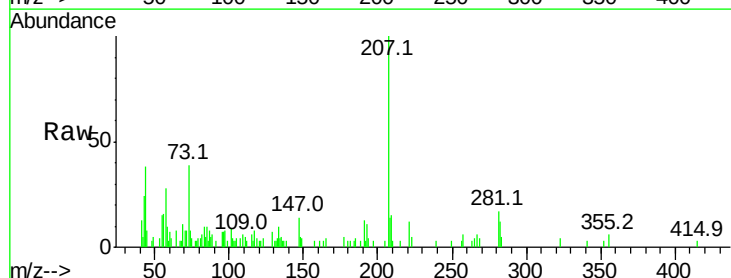
Tgt Ion:184 Resp: 60

Ion Ratio Lower Upper

184 100

185 140.6 13.0 19.6#

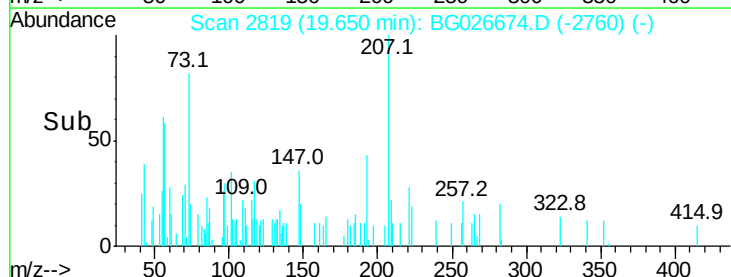
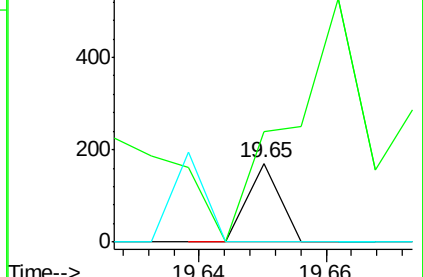
183 0.0 11.0 16.6#

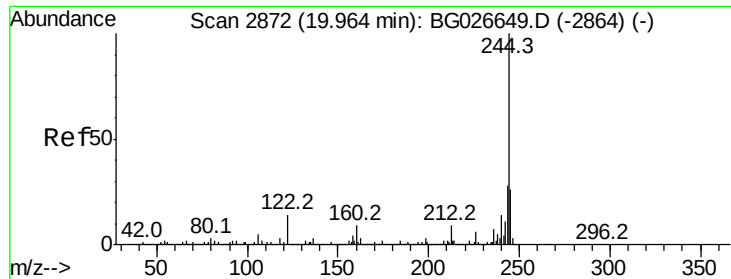


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 92.04 ng

RT: 19.97 min Scan# 2873

Delta R.T. -0.02 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

Instrument :

BNA\_G

ClientSampleId :

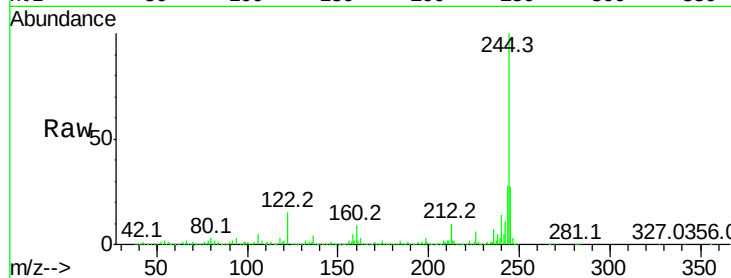
Tot Ion:244 Resp: 3759355

Ion Ratio Lower Upper

244 100

212 9.9 10.0 15.0#

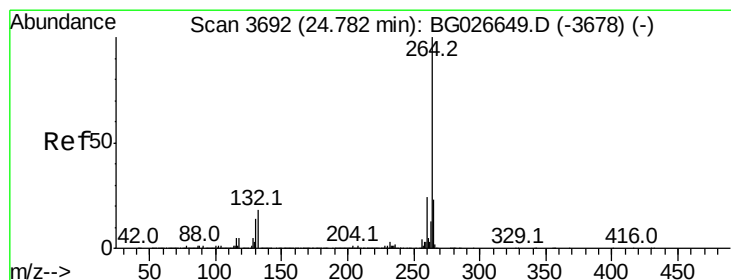
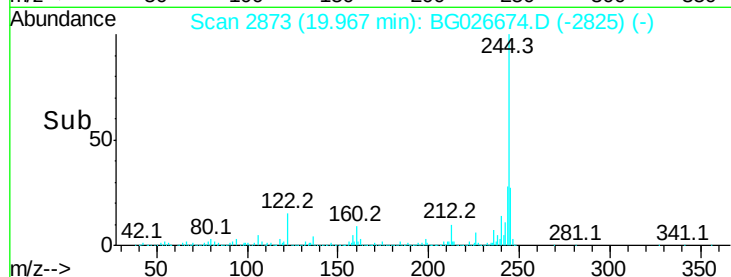
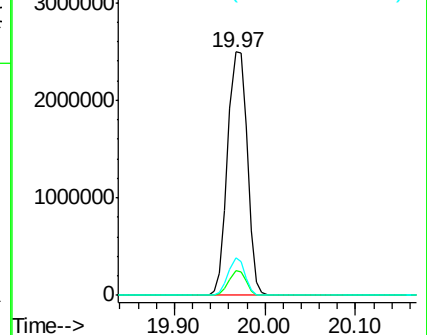
122 15.3 8.6 12.8#



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

Perylene-d12

Concen: 20.00 ng

RT: 24.79 min Scan# 3693

Delta R.T. -0.04 min

Lab File: BG026674.D

Acq: 20 Apr 2017 3:28

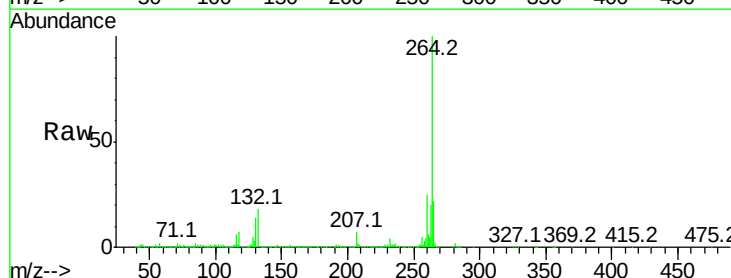
Tgt Ion:264 Resp: 965850

Ion Ratio Lower Upper

264 100

260 24.6 21.8 32.8

265 21.8 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

