

Data Path : Z:\HPCHEM1\BNA G\DATA\BG063017\  
 Data File : BG027773.D  
 Acq On : 1 Jul 2017 3:45  
 Operator : SJ/JU  
 Sample : I3959-03  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 01 05:43:52 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 19:26:37 2017  
 Response via : Initial Calibration

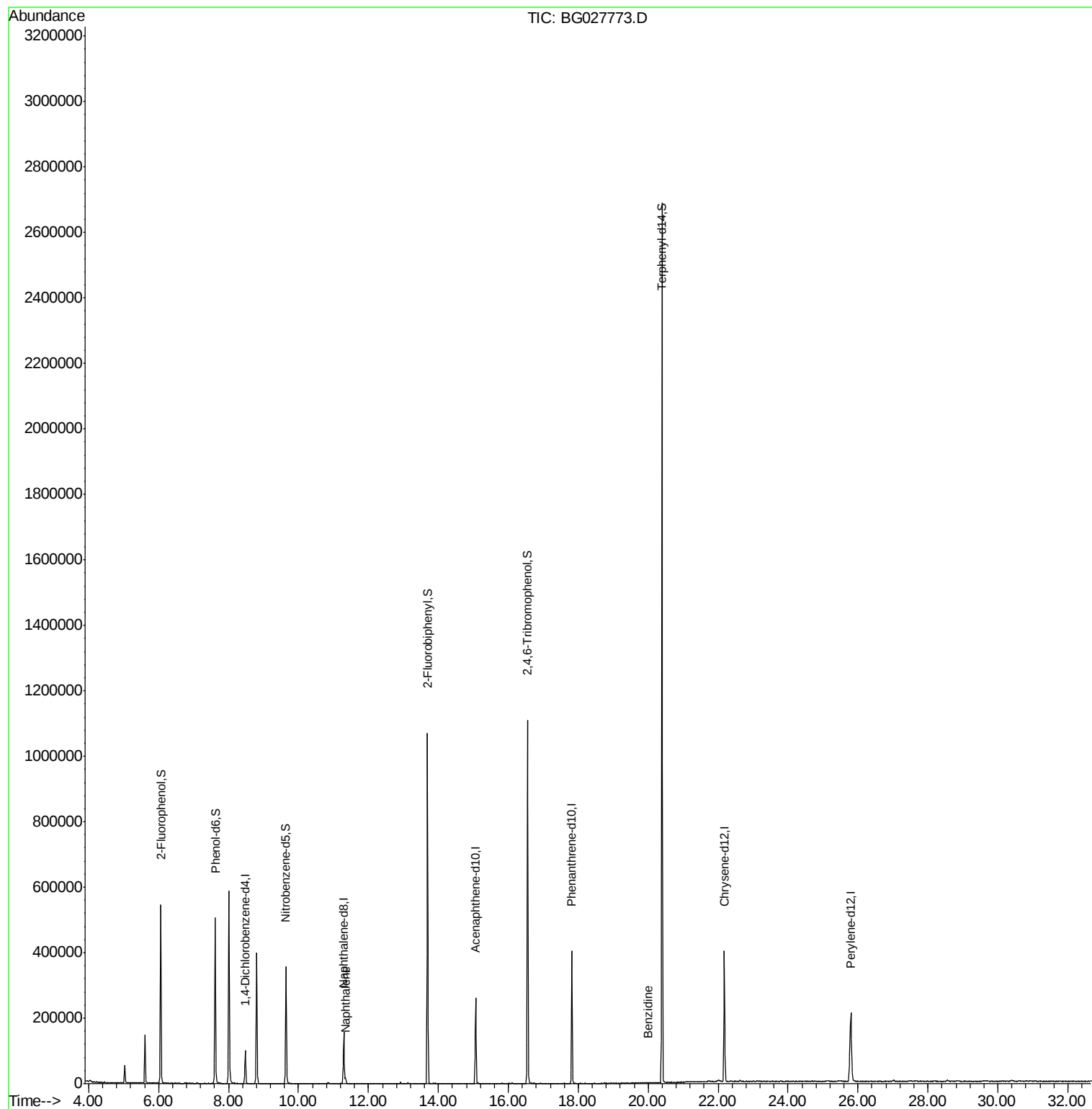
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.48  | 152  | 29296    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 11.29 | 136  | 141414   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 15.07 | 164  | 91327    | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10        | 17.82 | 188  | 255068   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12            | 22.18 | 240  | 259478   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 25.79 | 264  | 254626   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 6.06  | 112  | 241347   | 126.86 | ng    | 0.00      |
| 7) Phenol-d6                | 7.62  | 99   | 310864   | 106.96 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 9.64  | 82   | 226081   | 89.11  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 16.55 | 330  | 222667   | 177.76 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 13.69 | 172  | 578930   | 90.53  | ng    | 0.00      |
| 78) Terphenyl-d14           | 20.40 | 244  | 1187670  | 107.31 | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 31) Naphthalene             | 11.34 | 128  | 18184    | 2.42   | ng    | Qvalue 97 |
| 76) Benzidine               | 20.01 | 184  | 55       | 3.23   | ng    | # 64      |

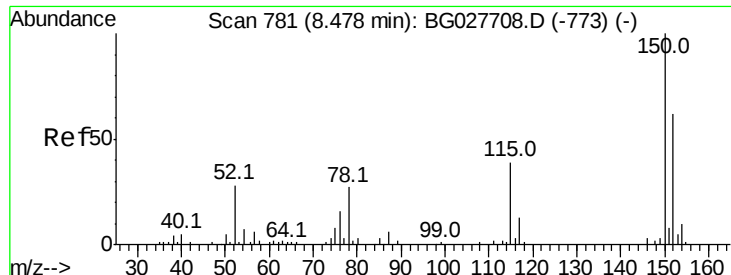
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG063017\  
Data File : BG027773.D  
Acq On : 1 Jul 2017 3:45  
Operator : SJ/JU  
Sample : I3959-03  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jul 01 05:43:52 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 28 19:26:37 2017  
Response via : Initial Calibration



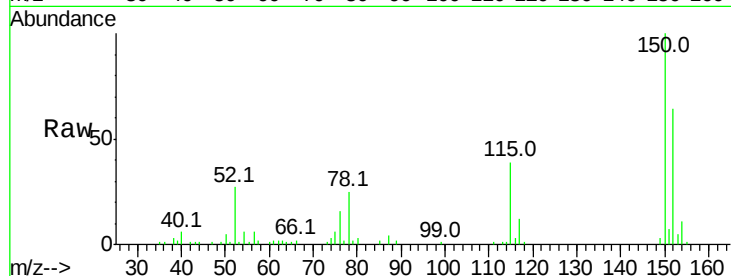


#1

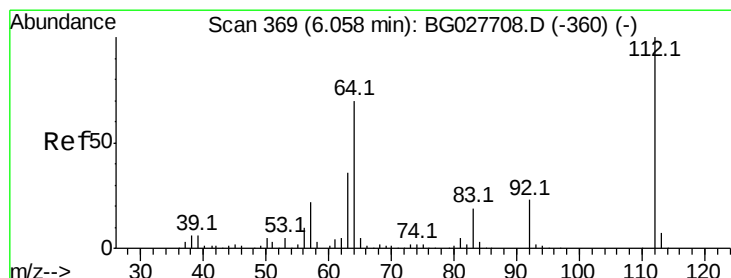
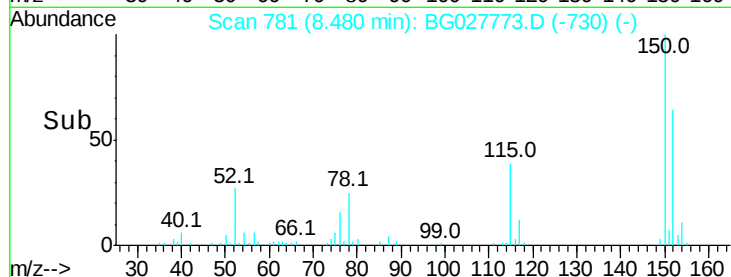
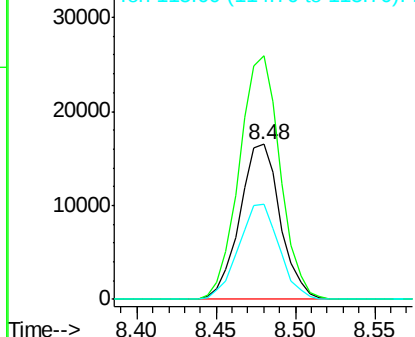
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.48 min Scan# 781  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 29296  
Ion Ratio Lower Upper  
152 100  
150 157.4 114.0 171.0  
115 61.6 48.1 72.1



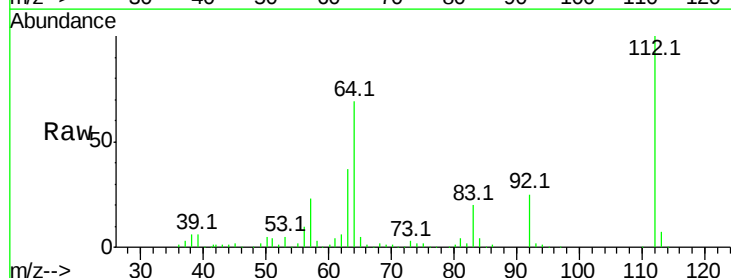
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



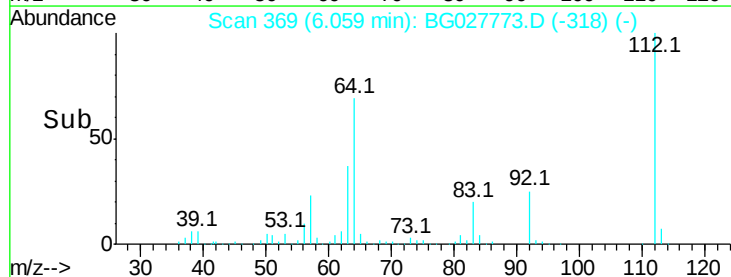
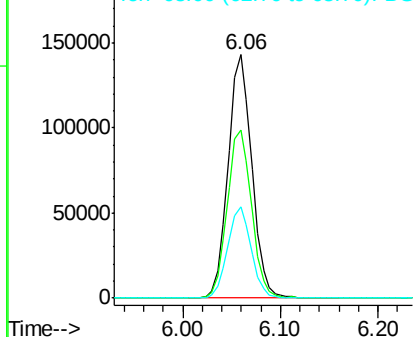
#5

2-Fluorophenol  
Concen: 126.86 ng  
RT: 6.06 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Tgt Ion:112 Resp: 241347  
Ion Ratio Lower Upper  
112 100  
64 69.2 61.8 92.6  
63 37.3 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: 106.96 ng

RT: 7.62 min Scan# 634

Delta R.T. 0.00 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

Instrument :

BNA\_G

ClientSampleId :

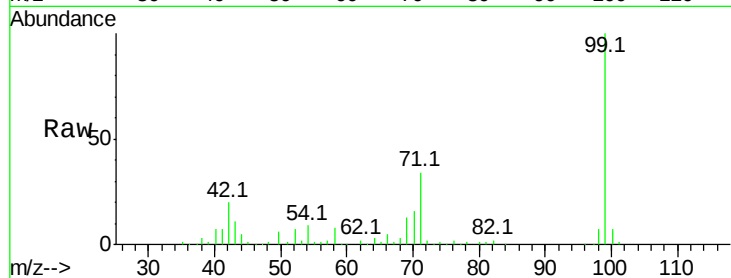
Tot Ion: 99 Resp: 310864

Ion Ratio Lower Upper

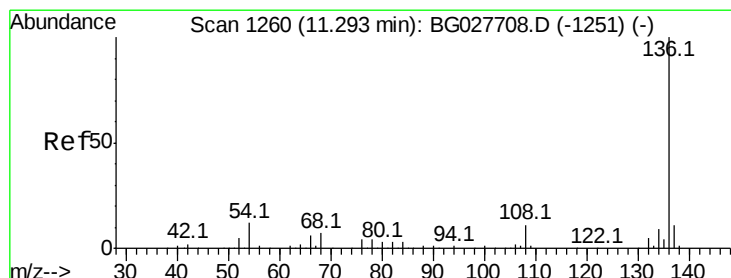
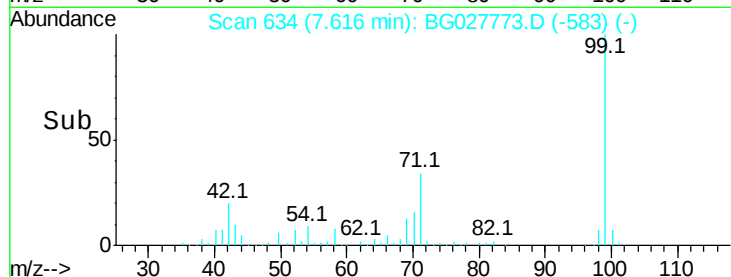
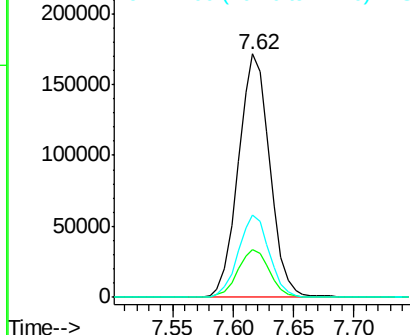
99 100

42 19.6 20.5 30.7#

71 33.6 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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.29 min Scan# 1260

Delta R.T. 0.00 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

Tgt Ion: 136 Resp: 141414

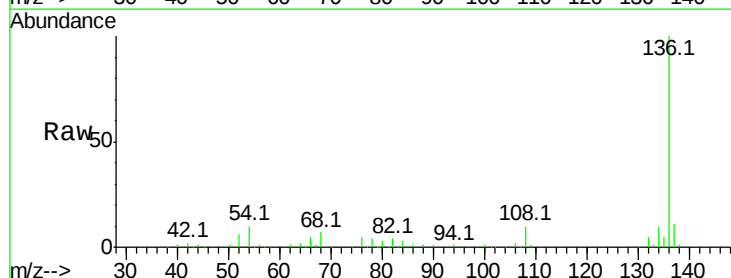
Ion Ratio Lower Upper

136 100

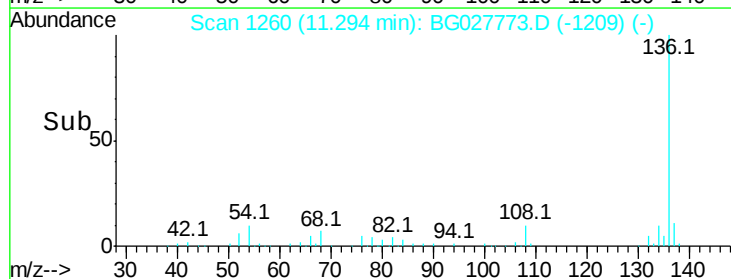
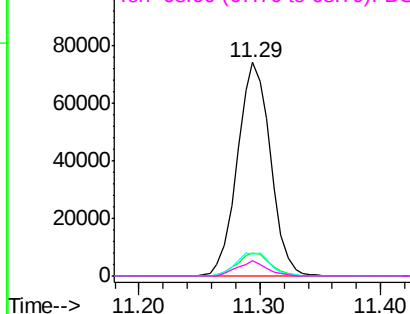
137 11.1 8.9 13.3

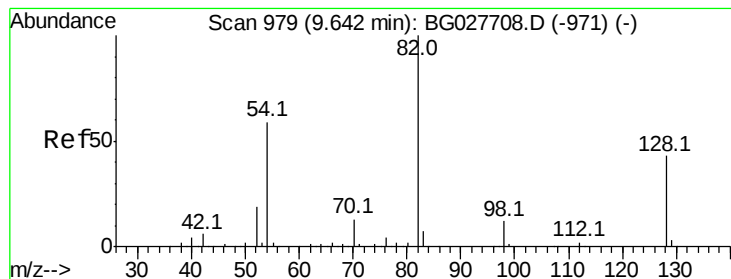
54 10.4 9.3 13.9

68 7.0 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: 89.11 ng

RT: 9.64 min Scan# 979

Delta R.T. 0.00 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

Instrument :

BNA\_G

ClientSampleId :

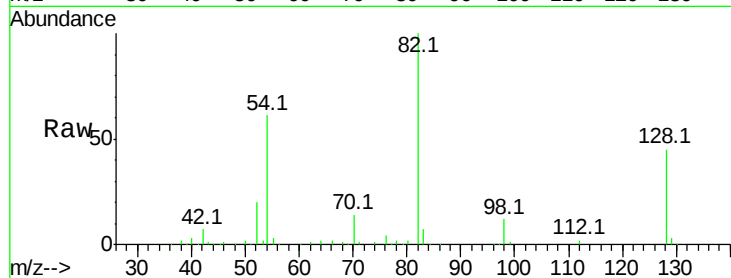
Tot Ion: 82 Resp: 226081

Ion Ratio Lower Upper

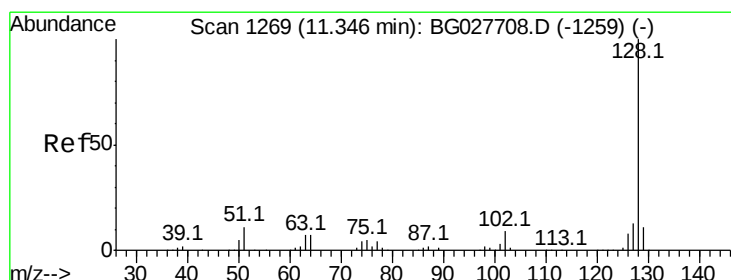
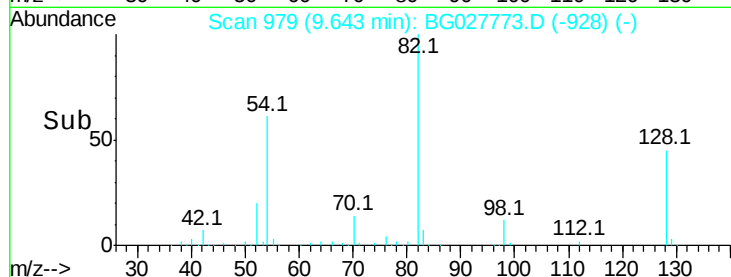
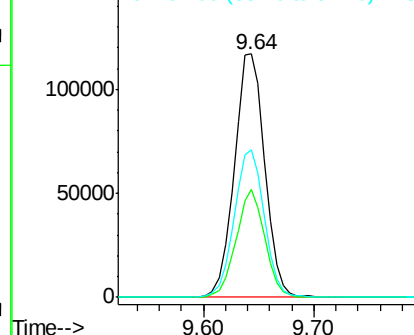
82 100

128 44.6 26.4 39.6#

54 60.8 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



#31

Naphthalene

Concen: 2.42 ng

RT: 11.34 min Scan# 1268

Delta R.T. -0.00 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

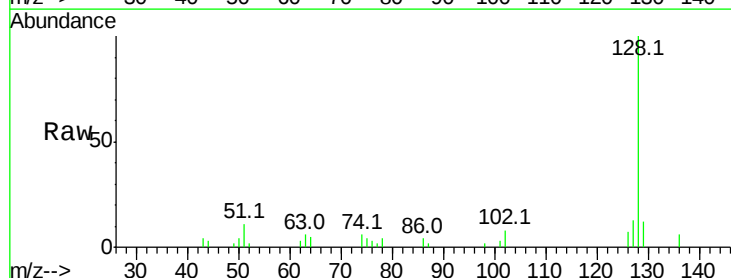
Tgt Ion:128 Resp: 18184

Ion Ratio Lower Upper

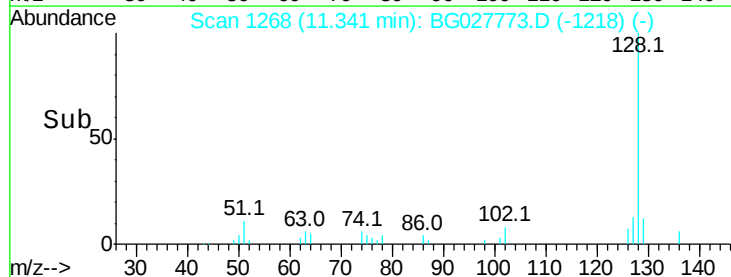
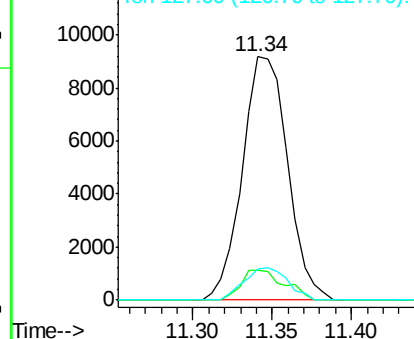
128 100

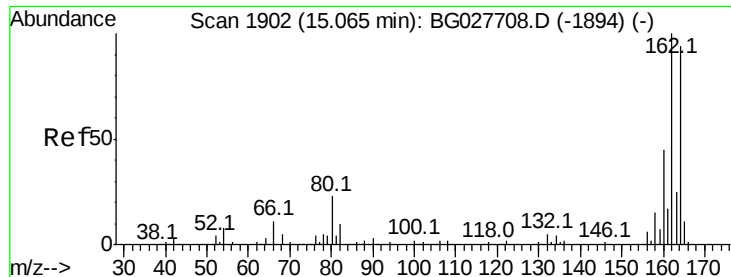
129 12.3 9.3 13.9

127 12.7 11.4 17.0



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 129.00 (128.70 to 129.70): BGC  
Ion 127.00 (126.70 to 127.70): BGC

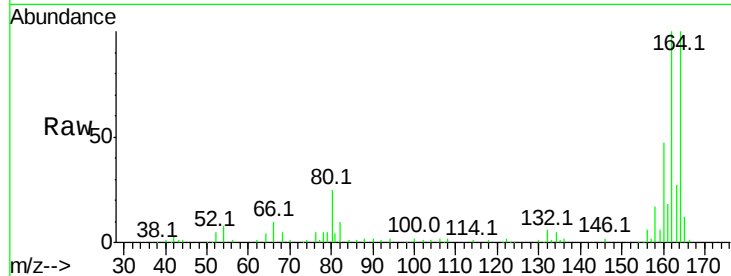




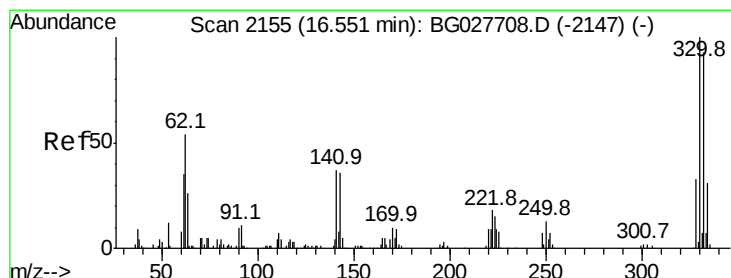
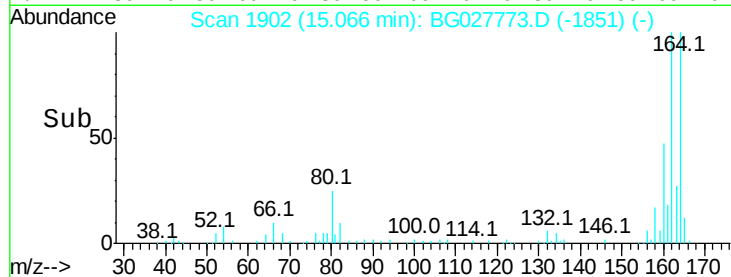
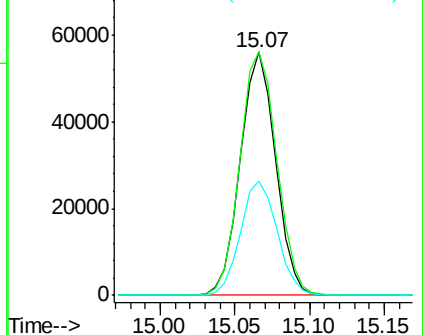
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.07 min Scan# 1902  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 91327  
Ion Ratio Lower Upper  
164 100  
162 100.0 85.1 127.7  
160 47.0 34.7 52.1

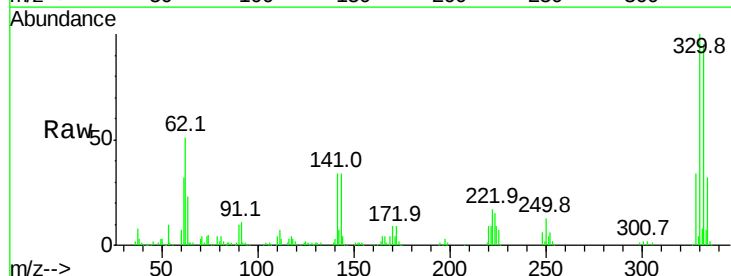


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

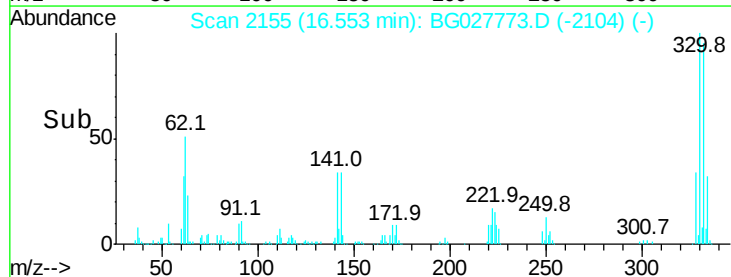
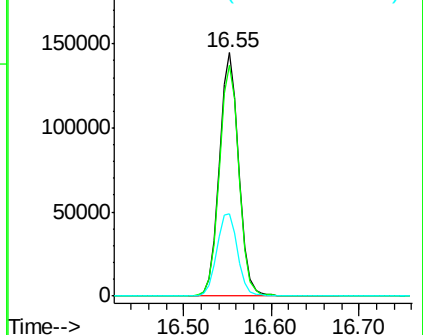


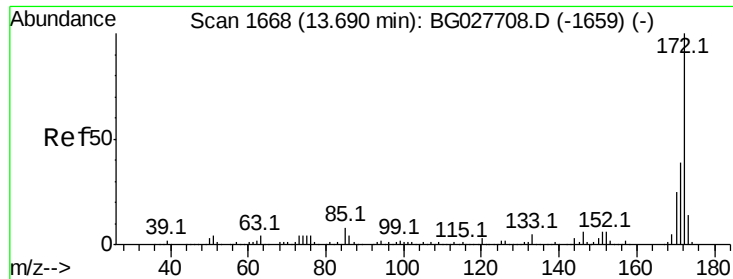
#41  
2,4,6-Tribromophenol  
Concen: 177.76 ng  
RT: 16.55 min Scan# 2155  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Tgt Ion:330 Resp: 222667  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.3 115.9  
141 36.2 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

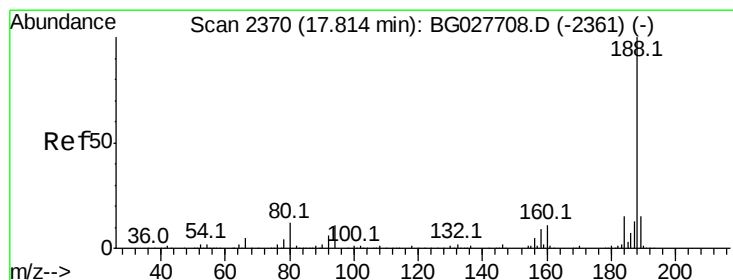
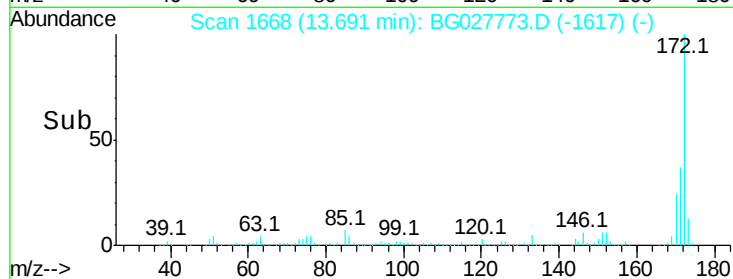
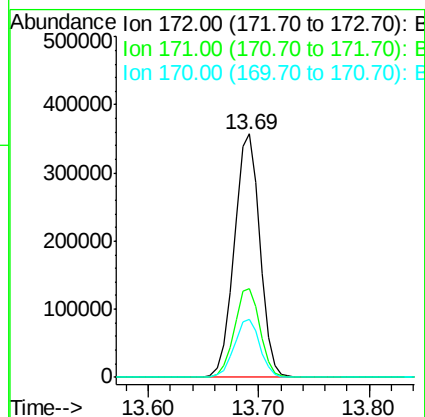
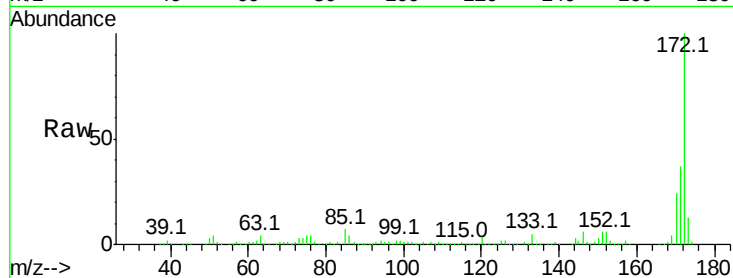




#44  
2-Fluorobiphenyl  
Concen: 90.53 ng  
RT: 13.69 min Scan# 1668  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

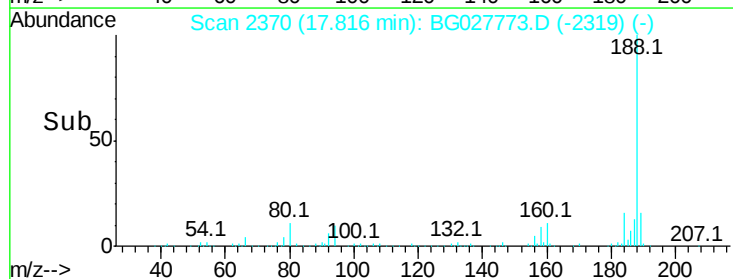
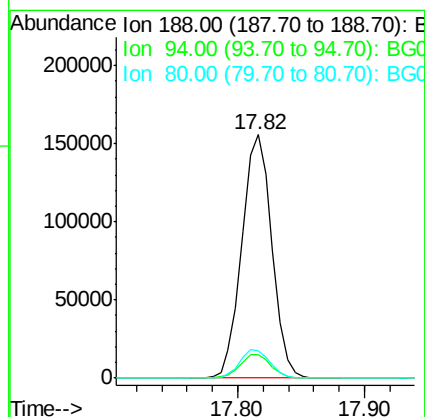
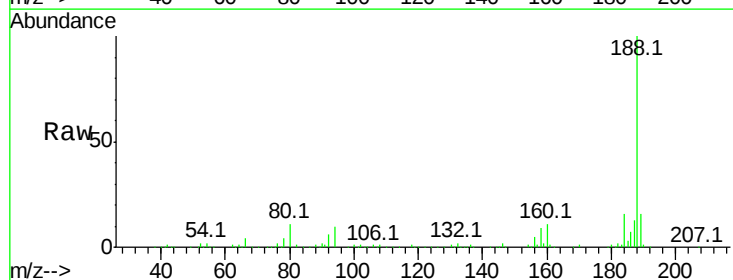
Instrument :  
BNA\_G  
ClientSampleId :

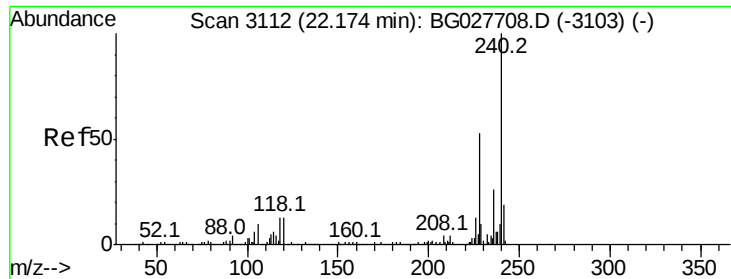
Tot Ion:172 Resp: 578930  
Ion Ratio Lower Upper  
172 100  
171 36.6 32.2 48.2  
170 23.8 21.8 32.6



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.82 min Scan# 2370  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Tgt Ion:188 Resp: 255068  
Ion Ratio Lower Upper  
188 100  
94 9.8 5.8 8.8#  
80 11.2 7.5 11.3

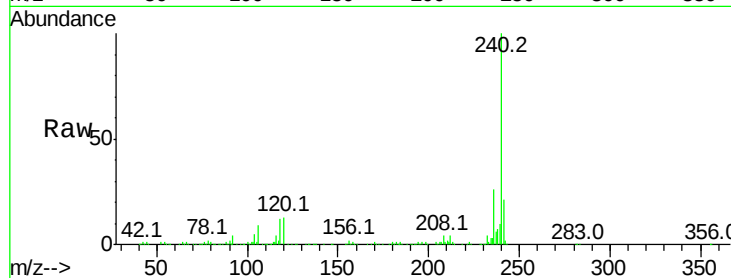




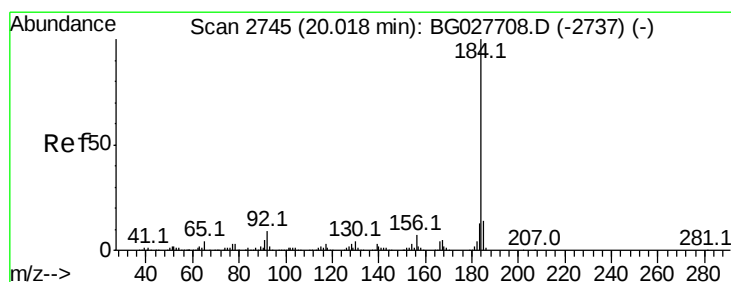
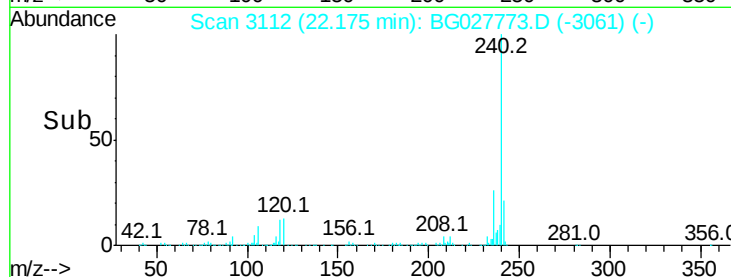
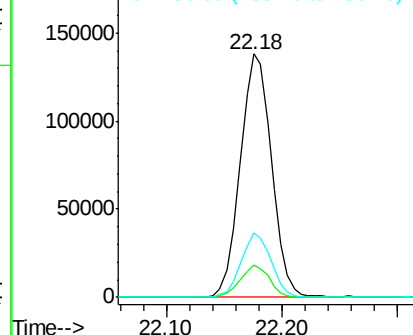
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.18 min Scan# 3112  
Delta R.T. 0.00 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:240 Resp: 259478  
Ion Ratio Lower Upper  
240 100  
120 13.3 5.7 8.5#  
236 26.5 22.2 33.4

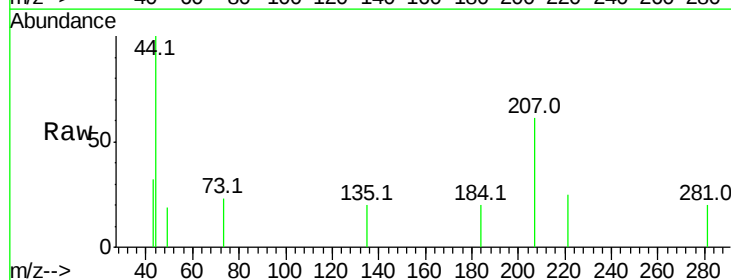


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

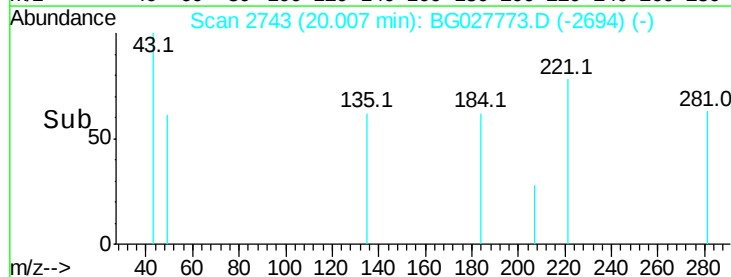
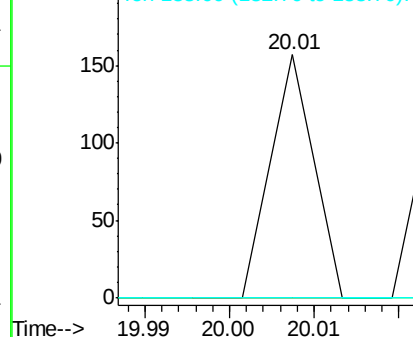


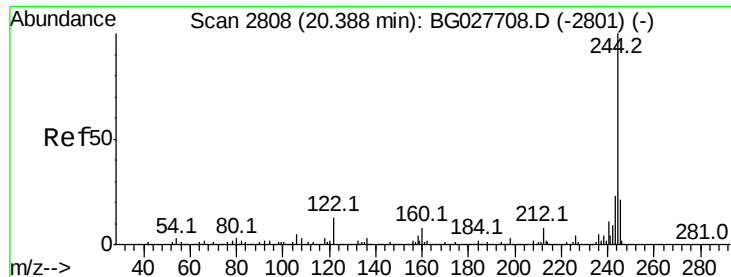
#76  
Benzidine  
Concen: 3.23 ng  
RT: 20.01 min Scan# 2743  
Delta R.T. -0.01 min  
Lab File: BG027773.D  
Acq: 1 Jul 2017 3:45

Tgt Ion:184 Resp: 55  
Ion Ratio Lower Upper  
184 100  
185 0.0 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: 107.31 ng

RT: 20.40 min Scan# 2809

Delta R.T. 0.01 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

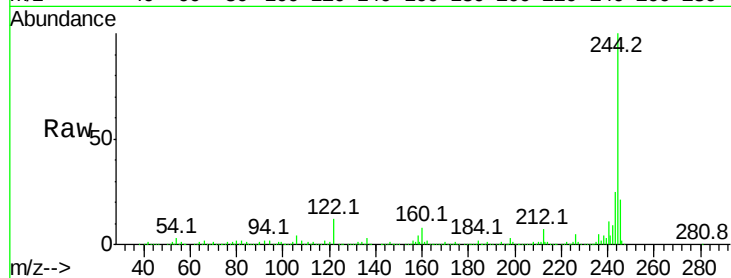
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1187670

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 10.0  | 15.0# |
| 122 | 11.6  | 8.6   | 12.8  |

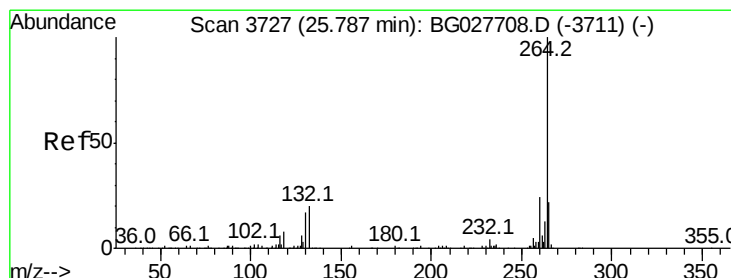
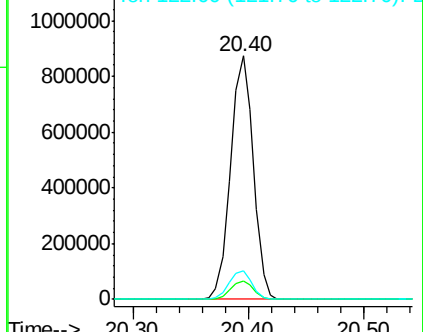
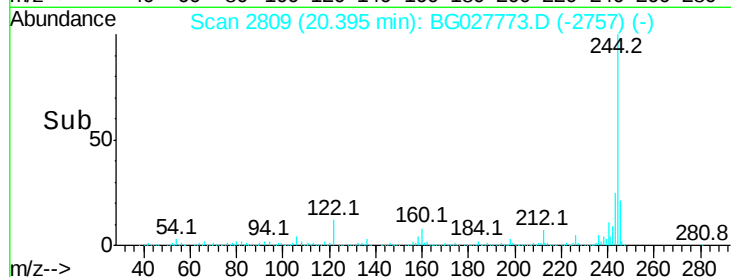


Abundance

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: 25.79 min Scan# 3727

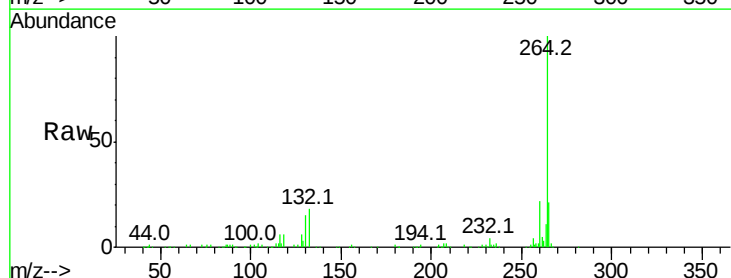
Delta R.T. 0.00 min

Lab File: BG027773.D

Acq: 1 Jul 2017 3:45

Tgt Ion:264 Resp: 254626

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 21.6  | 21.8  | 32.8# |
| 265 | 20.8  | 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

