

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060717\  
 Data File : BG027293.D  
 Acq On : 7 Jun 2017 21:16  
 Operator : SJ/MA  
 Sample : I3473-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 08 06:11:39 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

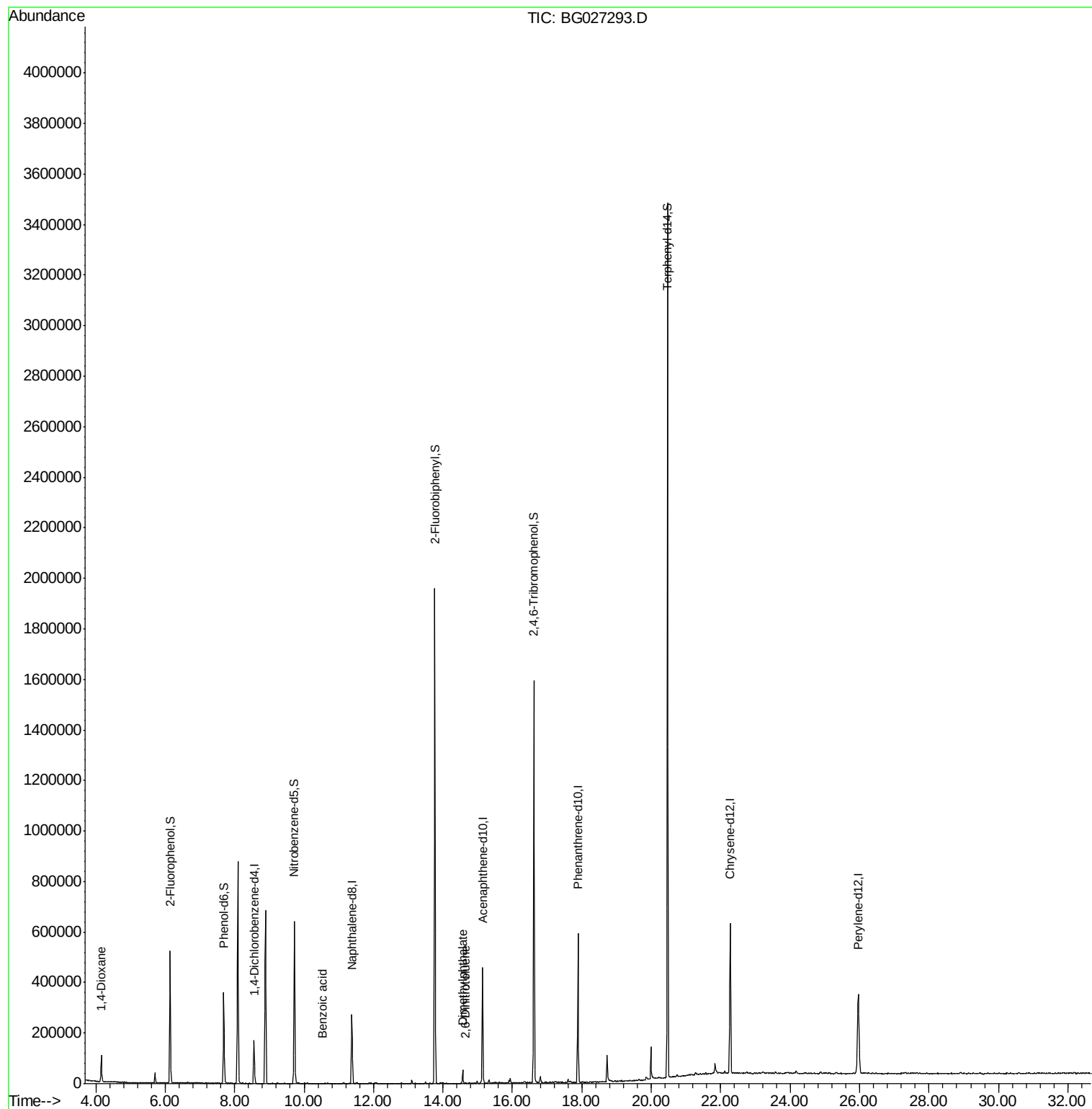
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.56  | 152  | 50120    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 11.38 | 136  | 243979   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 15.14 | 164  | 161830   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.89 | 188  | 376714   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 22.27 | 240  | 421805   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12            | 25.96 | 264  | 394727   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.14  | 112  | 246402   | 75.02  | ng    | -0.01    |
| 7) Phenol-d6                | 7.69  | 99   | 229519   | 47.61  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.72  | 82   | 422784   | 108.98 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.62 | 330  | 324153   | 152.11 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 13.76 | 172  | 1051632  | 90.91  | ng    | -0.03    |
| 78) Terphenyl-d14           | 20.47 | 244  | 1542164  | 93.27  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       |          |
| 2) 1,4-Dioxane              | 4.16  | 88   | 62710    | 46.05  | ng    | # 82     |
| 32) Benzoic acid            | 10.55 | 122  | 60       | 8.04   | ng    | # 1      |
| 49) Dimethylphthalate       | 14.57 | 163  | 35036    | 2.73   | ng    | 96       |
| 50) 2,6-Dinitrotoluene      | 14.65 | 165  | 223      | 5.69   | ng    | # 11     |

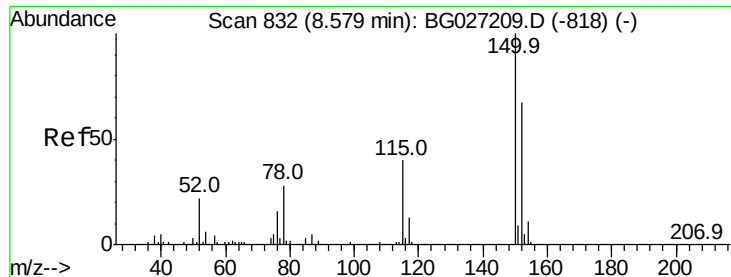
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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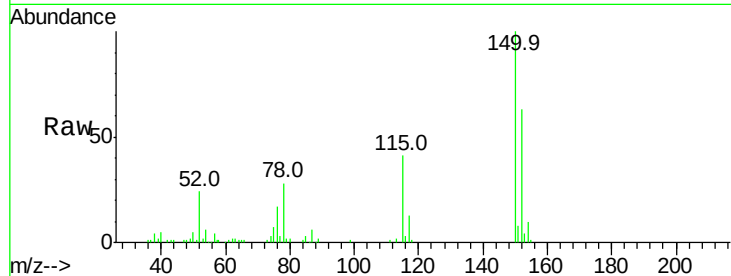


#1

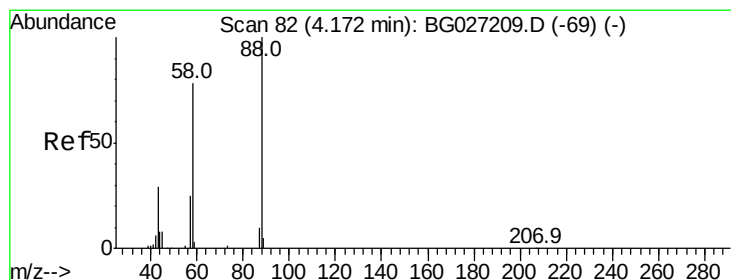
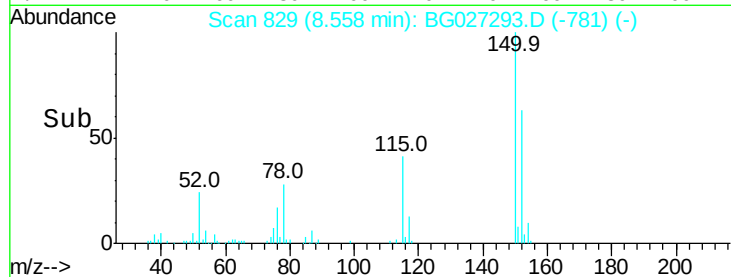
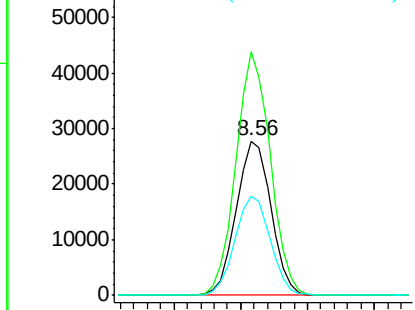
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.56 min Scan# 829  
Delta R.T. -0.02 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 50120  
Ion Ratio Lower Upper  
152 100  
150 157.6 114.0 171.0  
115 63.9 48.1 72.1



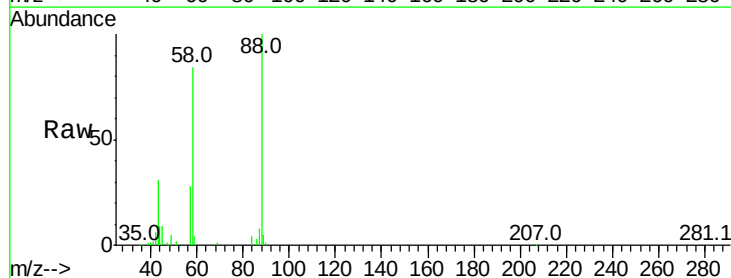
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



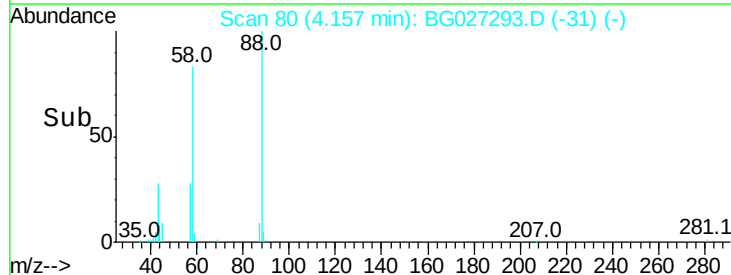
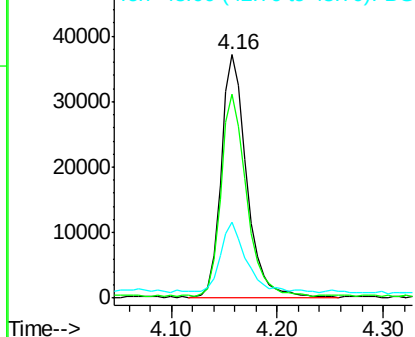
#2

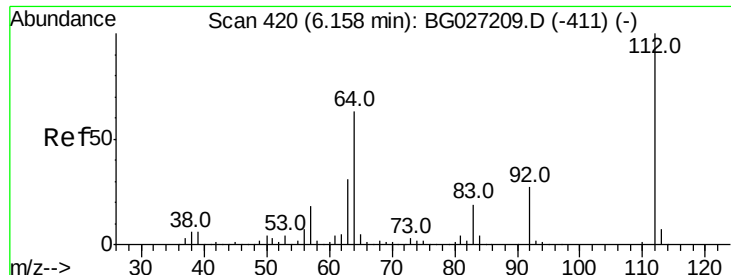
1,4-Dioxane  
Concen: 46.05 ng  
RT: 4.16 min Scan# 80  
Delta R.T. -0.01 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

Tgt Ion: 88 Resp: 62710  
Ion Ratio Lower Upper  
88 100  
58 81.7 79.4 119.2  
43 29.4 33.8 50.6#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 75.02 ng

RT: 6.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

Instrument :

BNA\_G

ClientSampled :

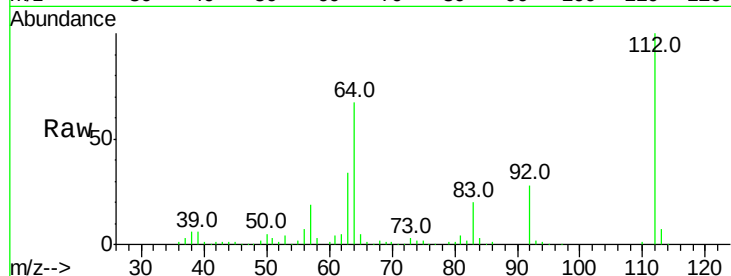
Tot Ion:112 Resp: 246402

Ion Ratio Lower Upper

112 100

64 66.8 61.8 92.6

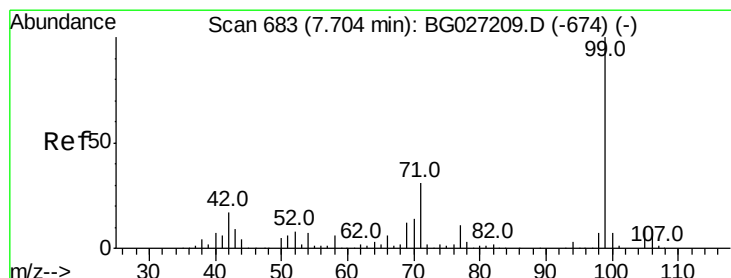
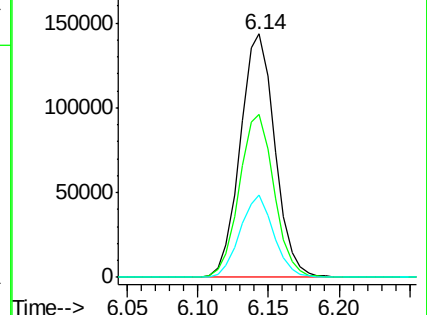
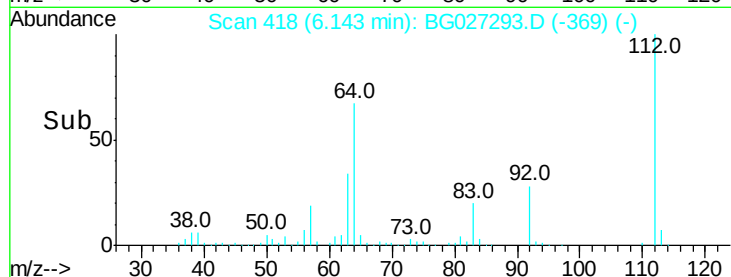
63 33.7 37.2 55.8#



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 47.61 ng

RT: 7.69 min Scan# 681

Delta R.T. -0.01 min

Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

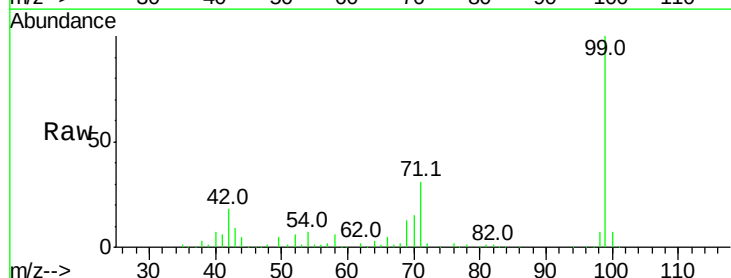
Tgt Ion: 99 Resp: 229519

Ion Ratio Lower Upper

99 100

42 17.8 20.5 30.7#

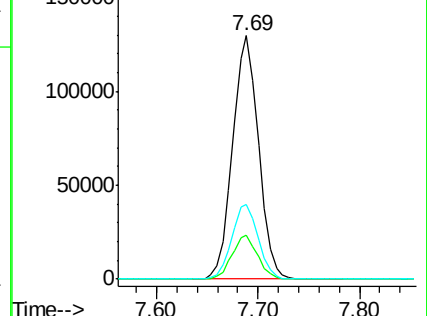
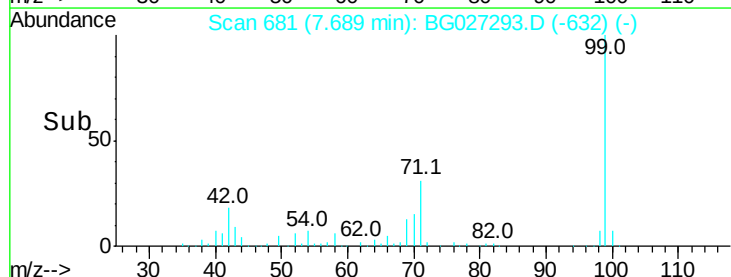
71 30.7 37.6 56.4#

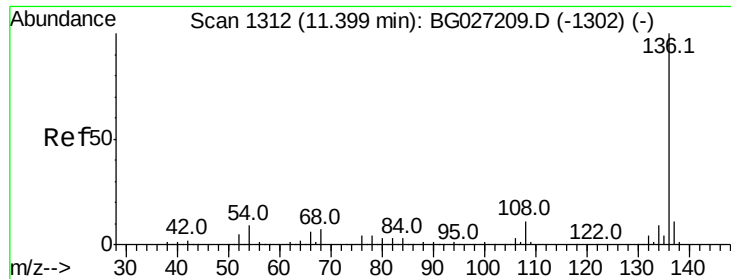


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

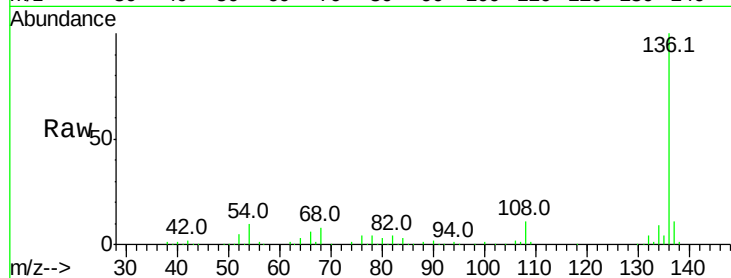




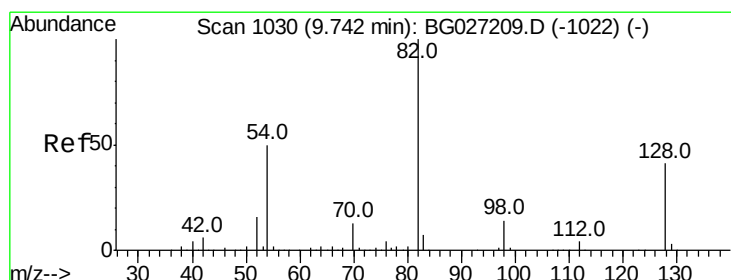
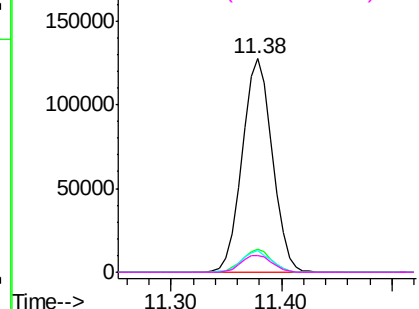
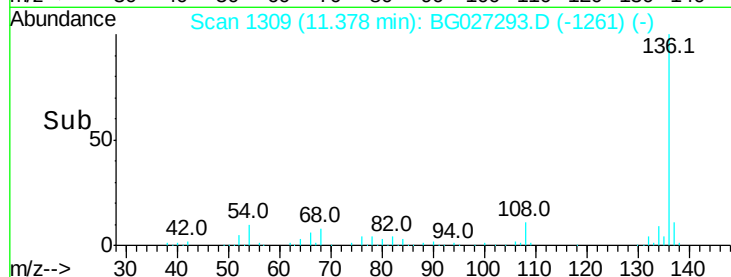
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.38 min Scan# 1309  
Delta R.T. -0.02 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 243979 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 10.2  | 9.3   | 13.9   |
| 68       | 8.0   | 5.1   | 7.7#   |

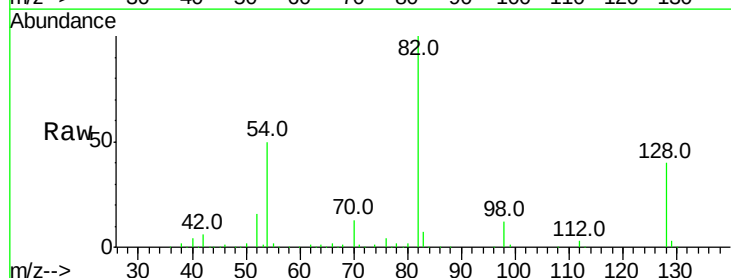


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

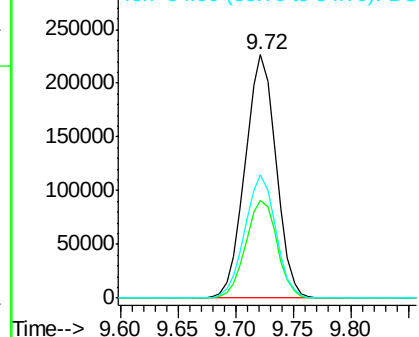
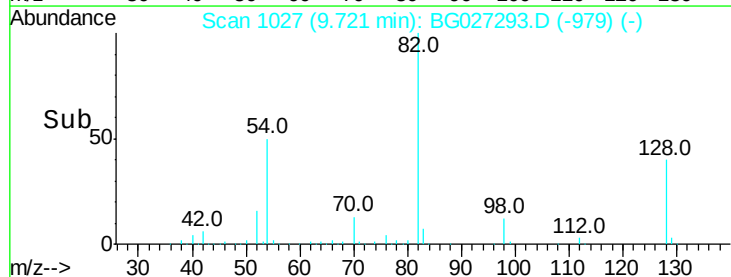


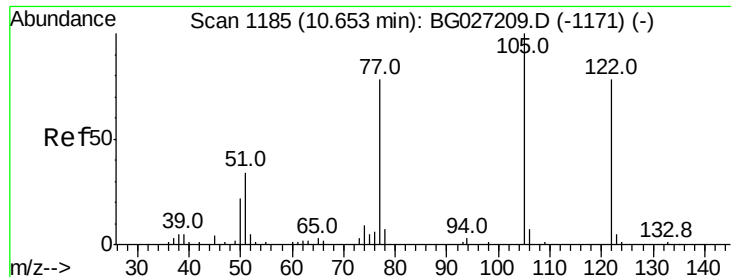
#23  
Nitrobenzene-d5  
Concen: 108.98 ng  
RT: 9.72 min Scan# 1027  
Delta R.T. -0.02 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 422784 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.3  | 26.4  | 39.6#  |
| 54       | 50.5  | 49.4  | 74.2   |



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





#32

Benzoic acid

Concen: 8.04 ng

RT: 10.55 min Scan# 1168

Delta R.T. -0.10 min

Lab File: BG027293.D

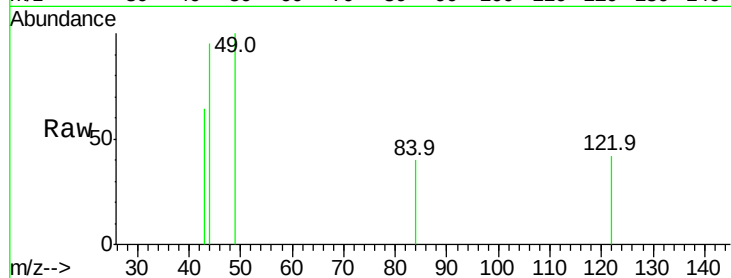
Acq: 7 Jun 2017 21:16

Instrument :

BNA\_G

ClientSampled :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 120.1 | 160.1# |
| 77      | 0.0   | 104.6 | 144.6# |

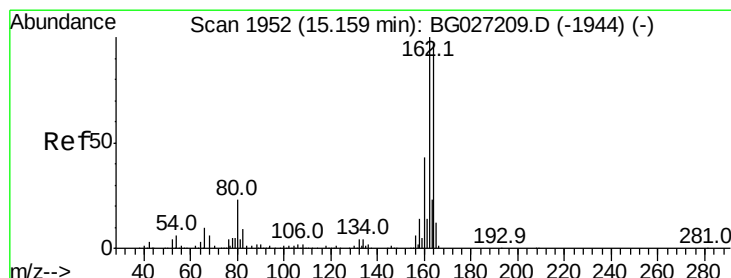
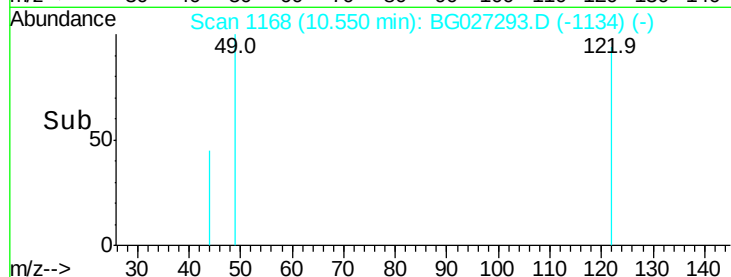
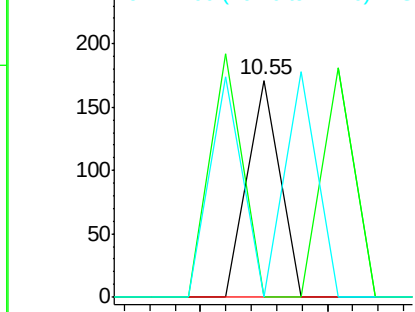


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#38

Acenaphthene-d10

Concen: 20.00 ng

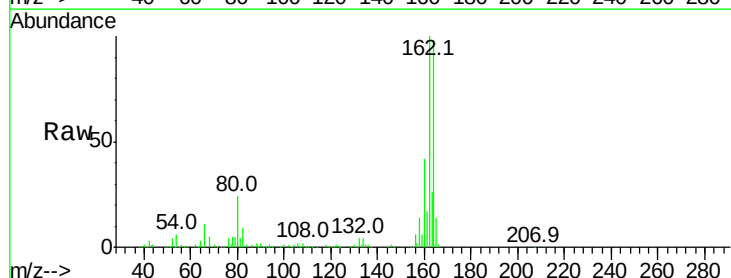
RT: 15.14 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.3 | 85.1  | 127.7 |
| 160     | 43.1  | 34.7  | 52.1  |

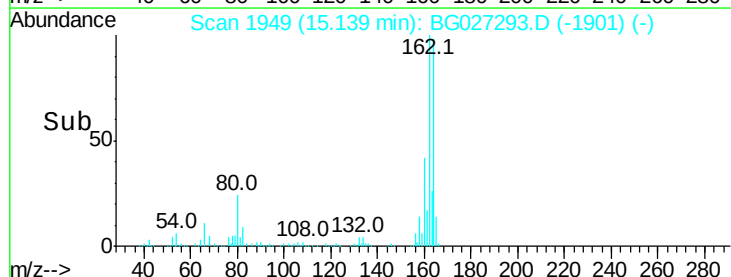
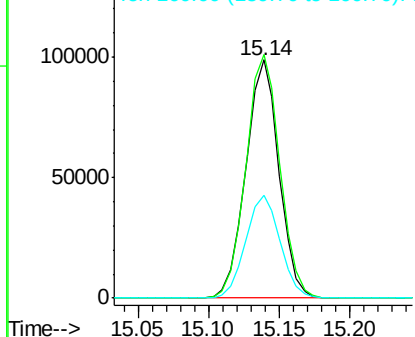


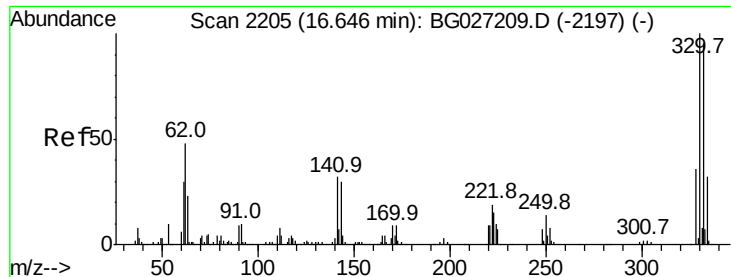
Abundance

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

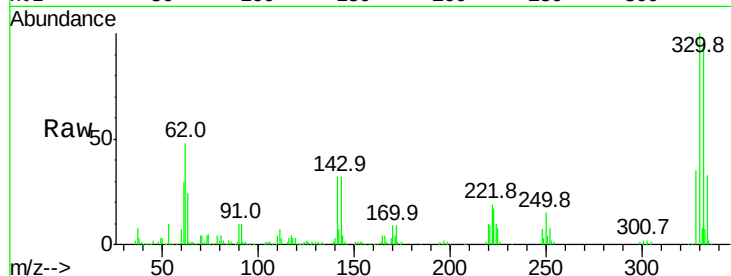




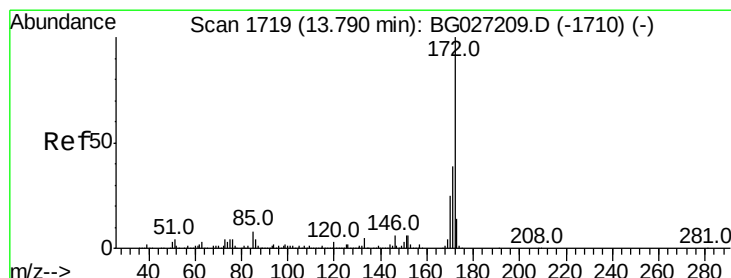
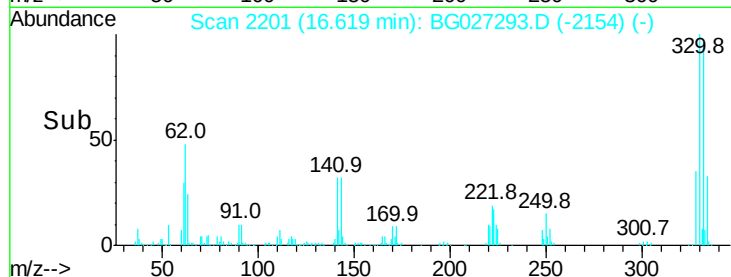
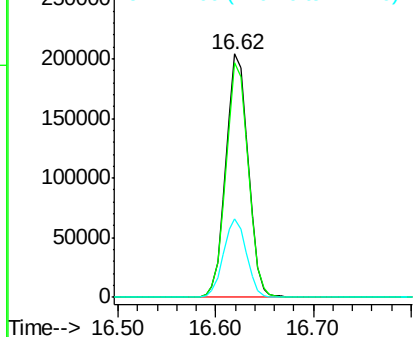
#41  
 2,4,6-Tribromophenol  
 Concen: 152.11 ng  
 RT: 16.62 min Scan# 2201  
 Delta R.T. -0.03 min  
 Lab File: BG027293.D  
 Acq: 7 Jun 2017 21:16

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 324153  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 77.3 115.9  
 141 33.1 32.1 48.1

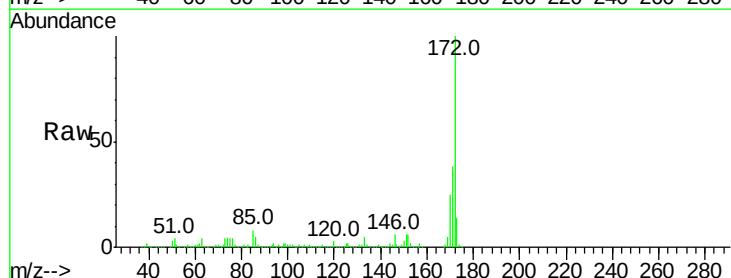


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

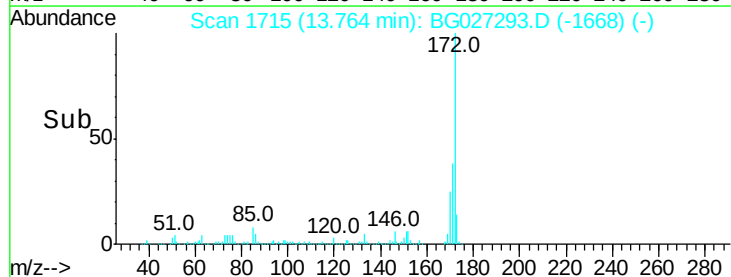
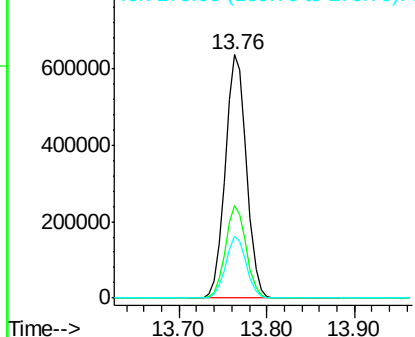


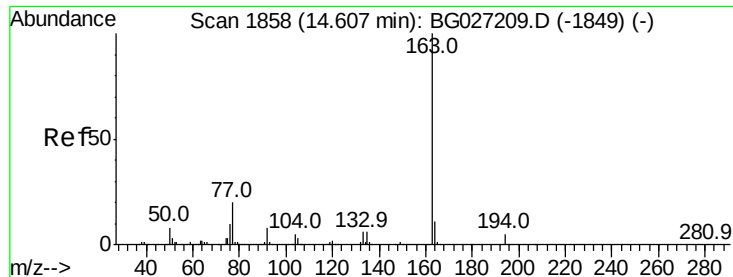
#44  
 2-Fluorobiphenyl  
 Concen: 90.91 ng  
 RT: 13.76 min Scan# 1715  
 Delta R.T. -0.03 min  
 Lab File: BG027293.D  
 Acq: 7 Jun 2017 21:16

Tgt Ion:172 Resp: 1051632  
 Ion Ratio Lower Upper  
 172 100  
 171 38.2 32.2 48.2  
 170 25.4 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





#49

Dimethylphthalate

Concen: 2.73 ng

RT: 14.57 min Scan# 1852

Delta R.T. -0.04 min

Lab File: BG027293.D

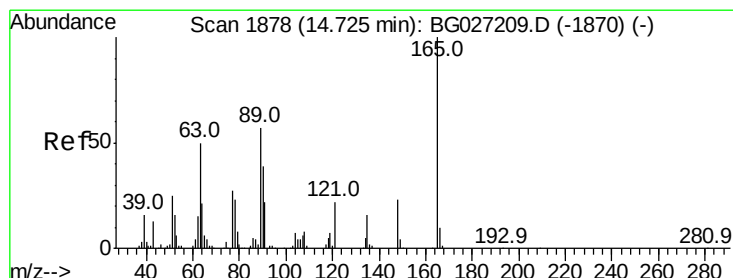
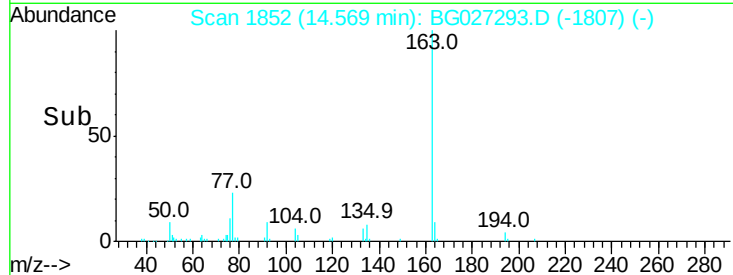
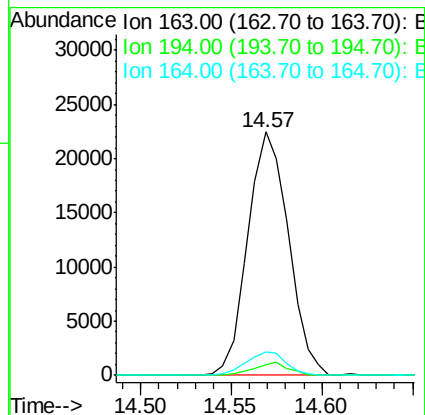
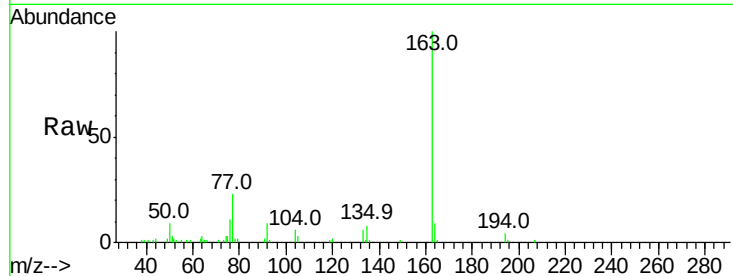
Acq: 7 Jun 2017 21:16

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 163   | Resp: | 35036 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 4.5   | 3.8   | 5.6   |
| 164      | 9.4   | 9.3   | 13.9  |



#50

2,6-Dinitrotoluene

Concen: 5.69 ng

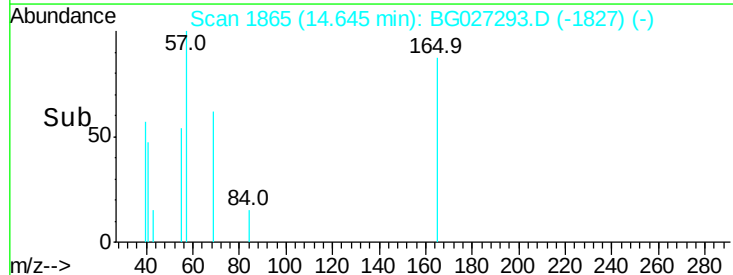
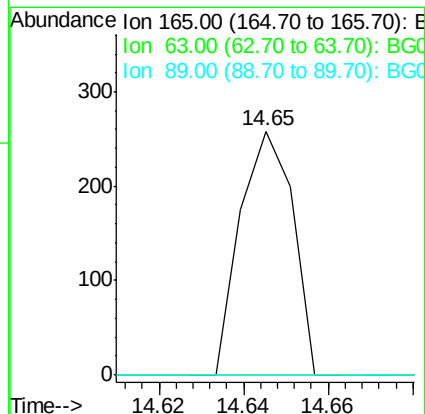
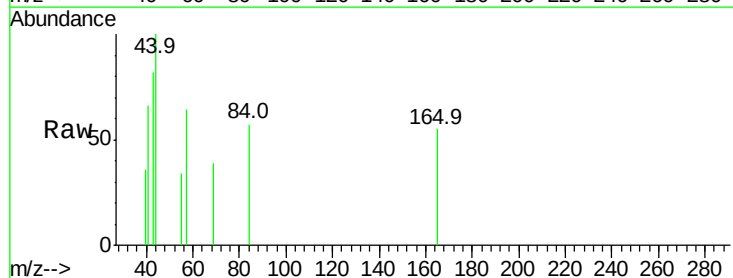
RT: 14.65 min Scan# 1865

Delta R.T. -0.08 min

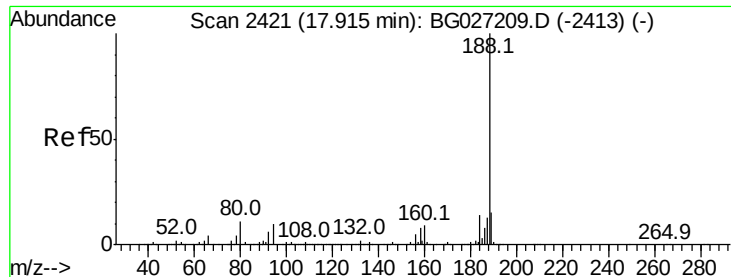
Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 223   |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 63.9  | 95.9# |
| 89       | 0.0   | 58.6  | 88.0# |



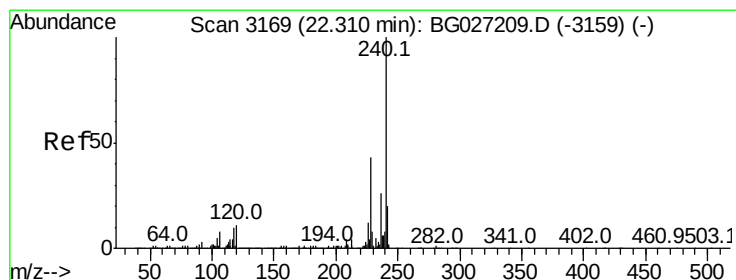
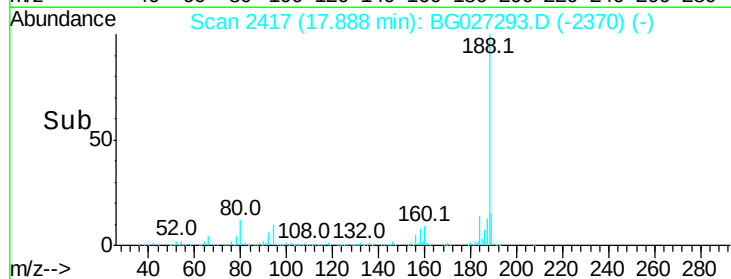
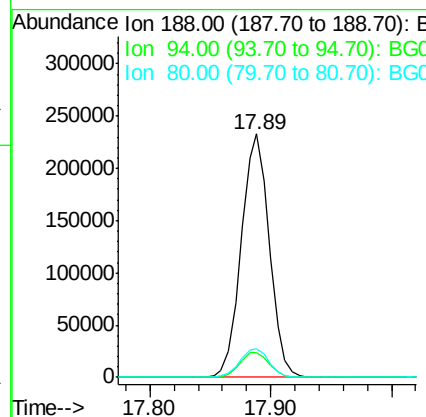
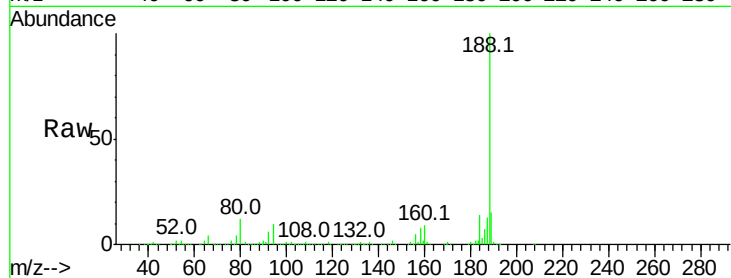




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.89 min Scan# 2417  
Delta R.T. -0.03 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

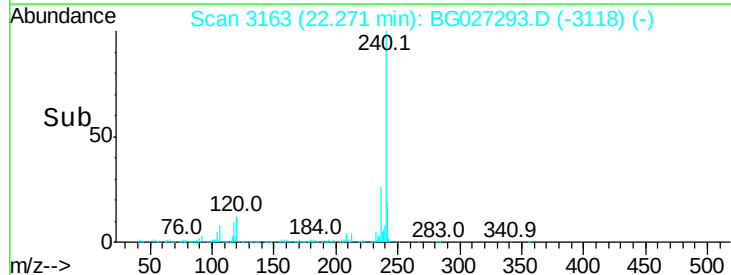
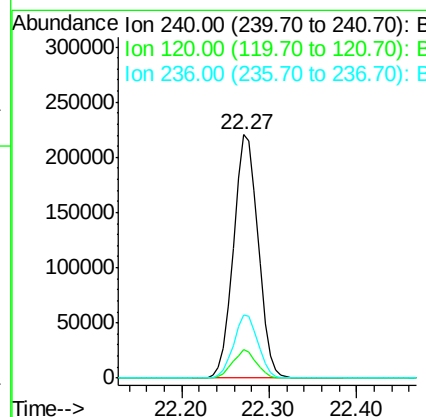
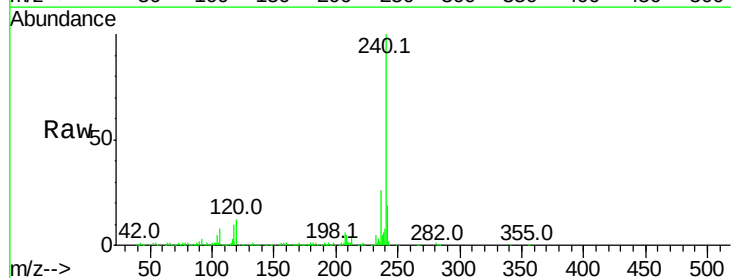
Instrument :  
BNA\_G  
ClientSampleId :

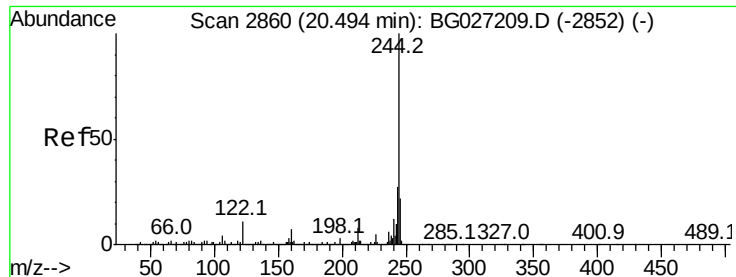
Tot Ion:188 Resp: 376714  
Ion Ratio Lower Upper  
188 100  
94 10.2 5.8 8.8#  
80 11.7 7.5 11.3#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.27 min Scan# 3163  
Delta R.T. -0.04 min  
Lab File: BG027293.D  
Acq: 7 Jun 2017 21:16

Tgt Ion:240 Resp: 421805  
Ion Ratio Lower Upper  
240 100  
120 11.7 5.7 8.5#  
236 25.7 22.2 33.4





#78

Terphenyl-d14

Concen: 93.27 ng

RT: 20.47 min Scan# 2856

Delta R.T. -0.03 min

Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

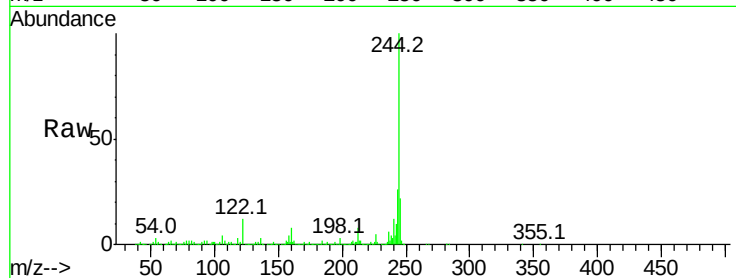
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1542164

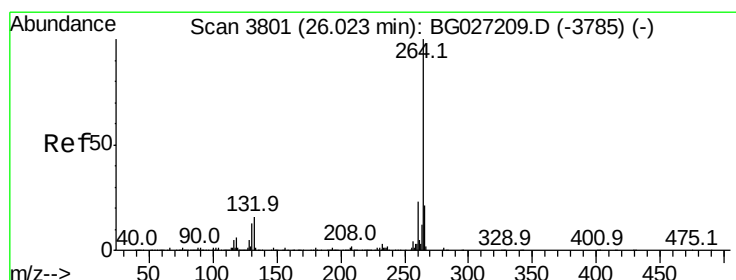
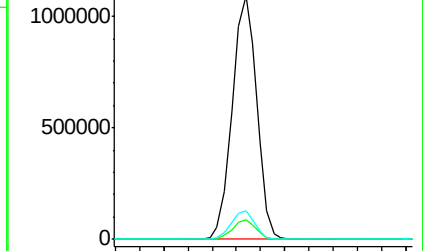
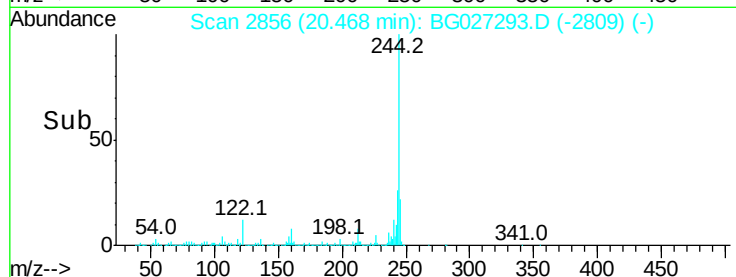
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.1   | 10.0  | 15.0# |
| 122 | 11.8  | 8.6   | 12.8  |



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: 25.96 min Scan# 3791

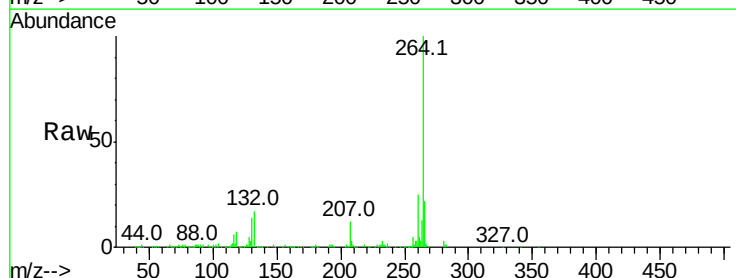
Delta R.T. -0.06 min

Lab File: BG027293.D

Acq: 7 Jun 2017 21:16

Tgt Ion:264 Resp: 394727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.7  | 21.8  | 32.8  |
| 265 | 22.3  | 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

