

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041118\  
 Data File : BG033769.D  
 Acq On : 12 Apr 2018 6:57  
 Operator : SJ/JU  
 Sample : J2321-07  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 12 08:09:45 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 10 16:51:36 2018  
 Response via : Initial Calibration

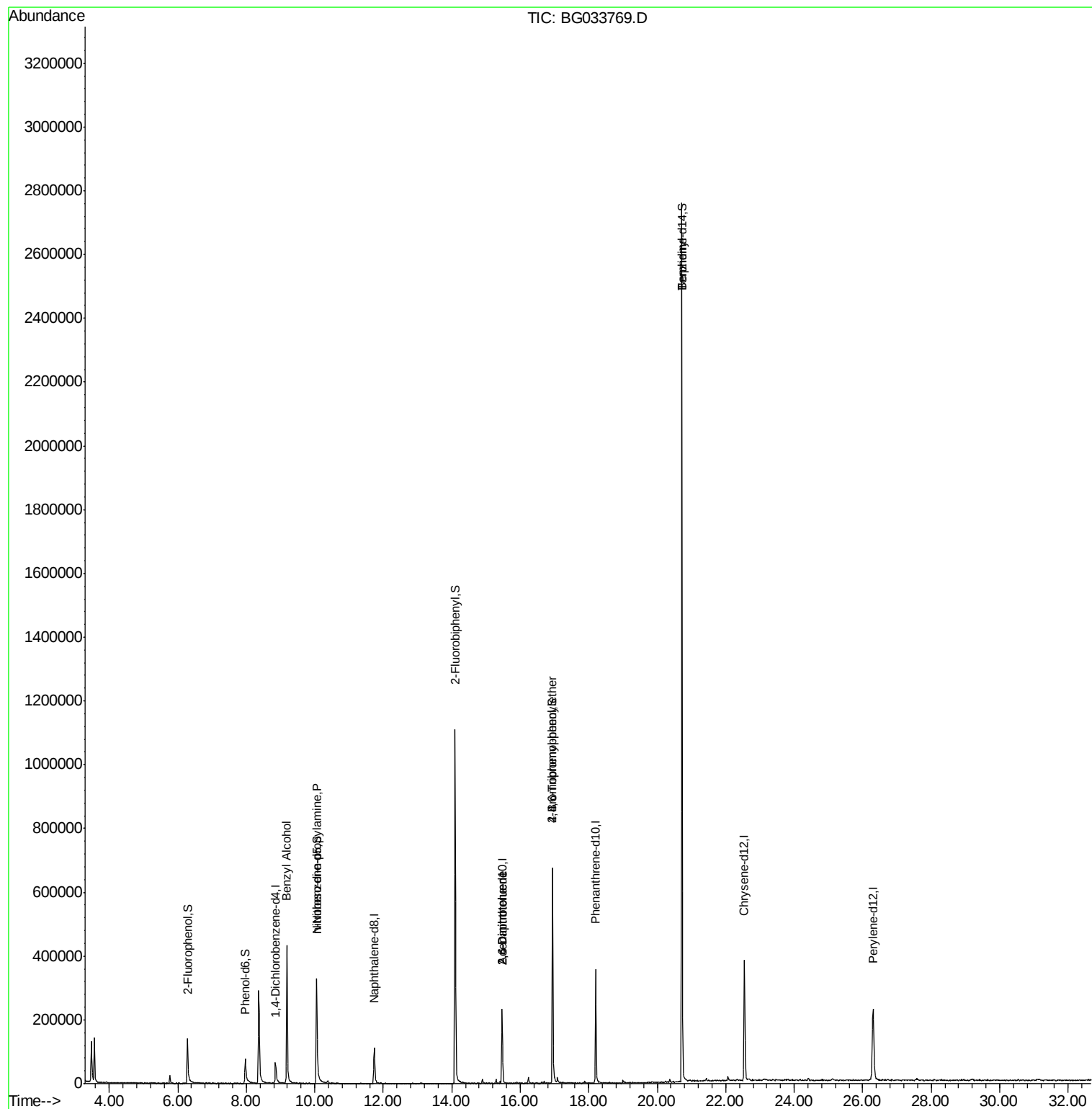
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.85  | 152  | 27004    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.74 | 136  | 120052   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.47 | 164  | 89321    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 261035   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 286372   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.30 | 264  | 310070   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 78666    | 54.62  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.97  | 99   | 69270    | 27.99  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 263660   | 100.90 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.94 | 330  | 131281   | 98.27  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 626517   | 101.26 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.72 | 244  | 1391595  | 103.92 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.19  | 79   | 4814     | 2.471  | ng    | # 29     |
| 19) n-Nitroso-di-n-propylamine | 10.05 | 70   | 34316    | 18.926 | ng    | # 86     |
| 50) 2,6-Dinitrotoluene         | 15.47 | 165  | 10764    | 6.772  | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 15.47 | 165  | 10764    | 4.599  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.94 | 248  | 10155    | 3.313  | ng    | # 1      |
| 76) Benzidine                  | 20.72 | 184  | 25144    | 3.238  | ng    | 97       |

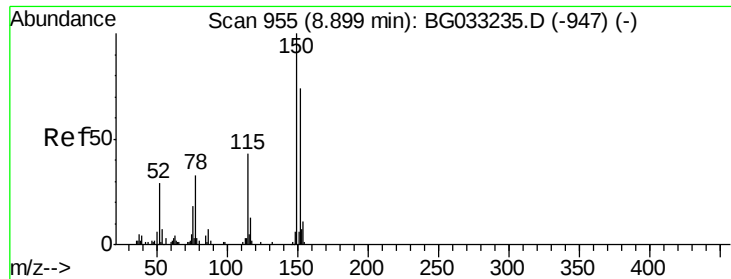
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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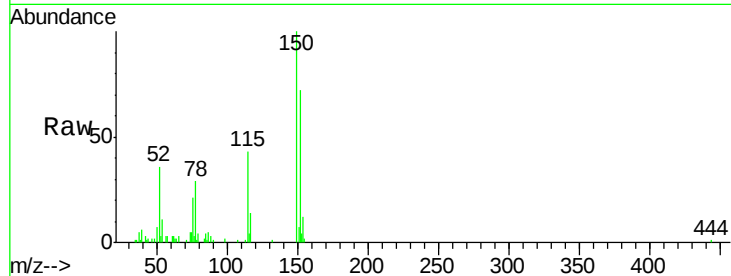


#1

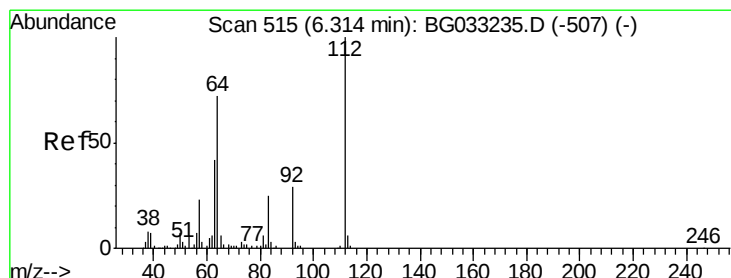
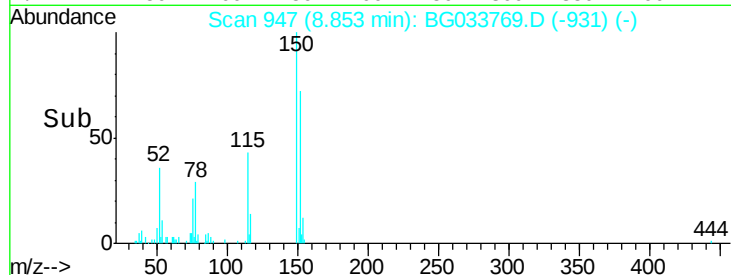
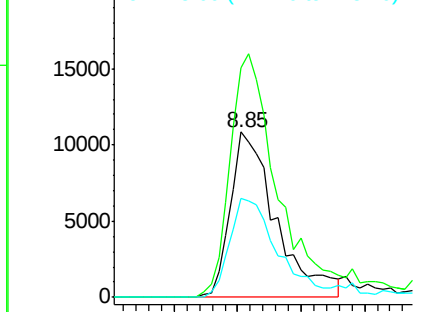
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.85 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 138.5 | 126.6 | 189.8 |
| 115     | 59.7  | 53.0  | 79.4  |



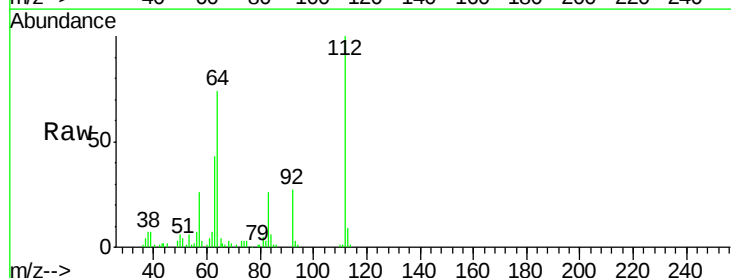
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



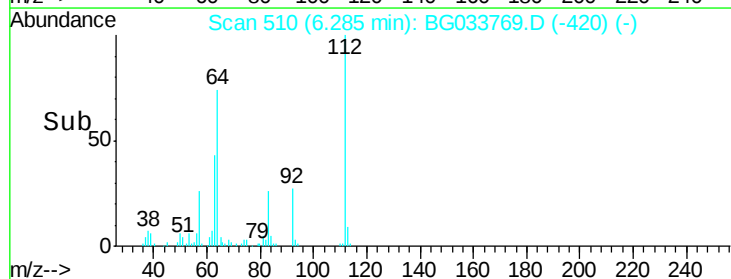
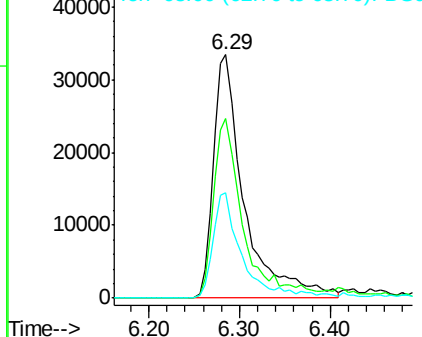
#5

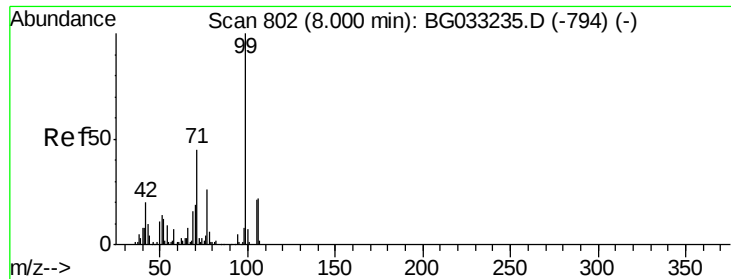
2-Fluorophenol  
Concen: 54.625 ng  
RT: 6.29 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.5  | 56.3  | 84.5  |
| 63      | 43.3  | 30.1  | 45.1  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 27.994 ng

RT: 7.97 min Scan# 797

Delta R.T. 0.00 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

Instrument :

BNA\_G

ClientSampleId :

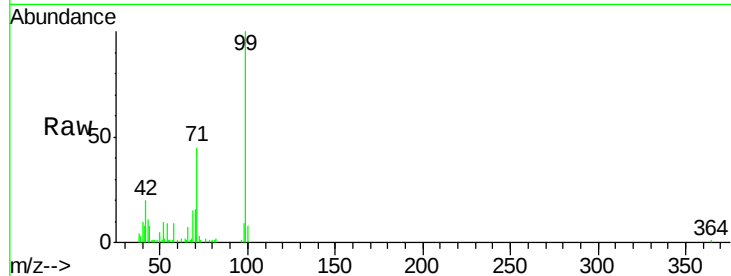
Tot Ion: 99 Resp: 69270

Ion Ratio Lower Upper

99 100

42 19.8 14.1 21.1

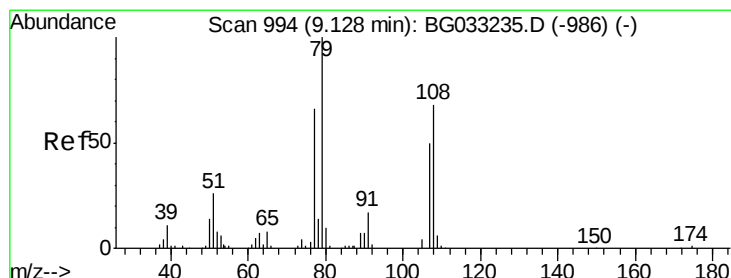
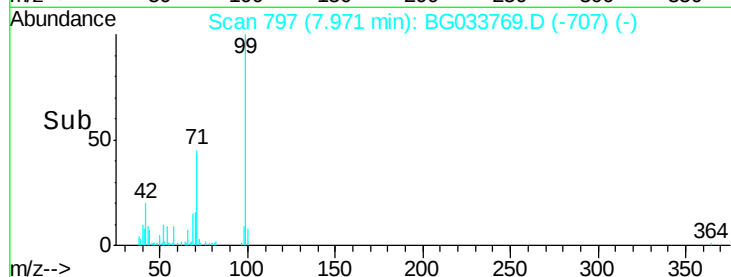
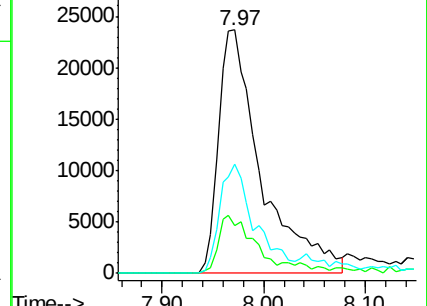
71 45.1 26.1 39.1#



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: 2.471 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.10 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

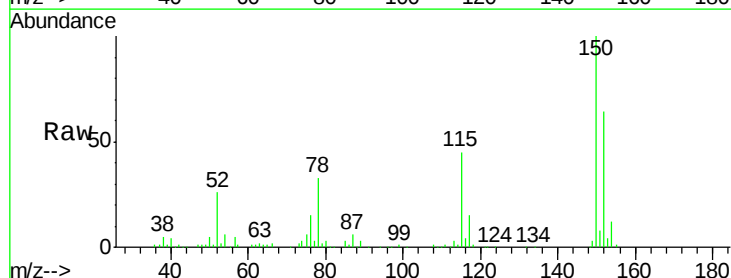
Tgt Ion: 79 Resp: 4814

Ion Ratio Lower Upper

79 100

108 30.1 57.2 85.8#

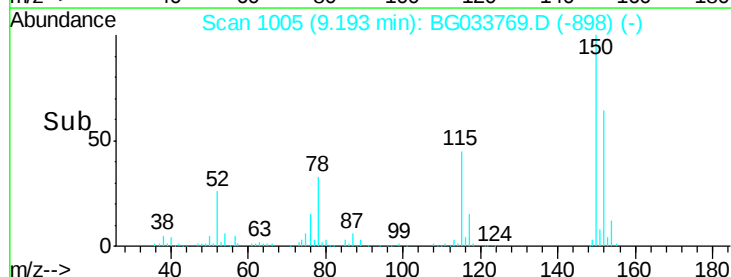
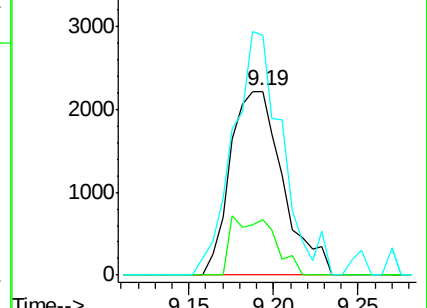
77 130.3 46.1 69.1#

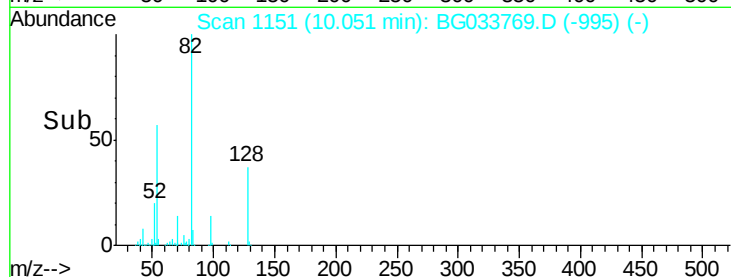
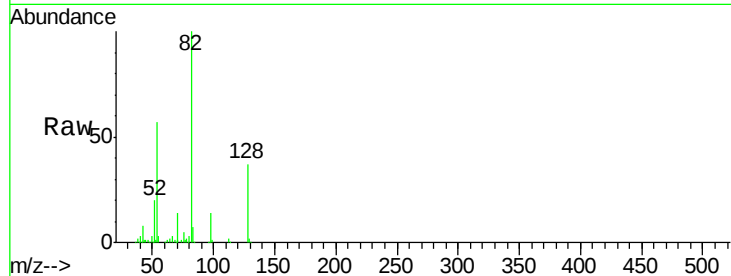
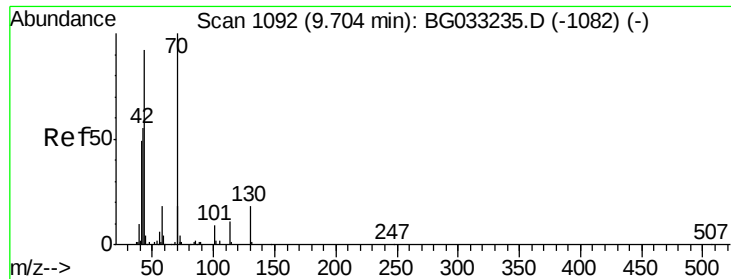


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

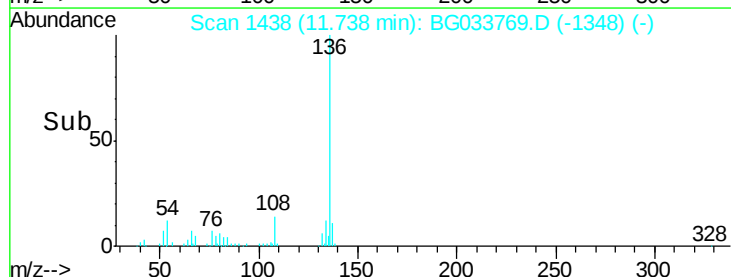
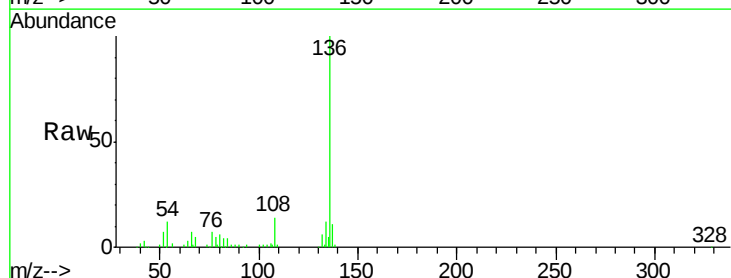
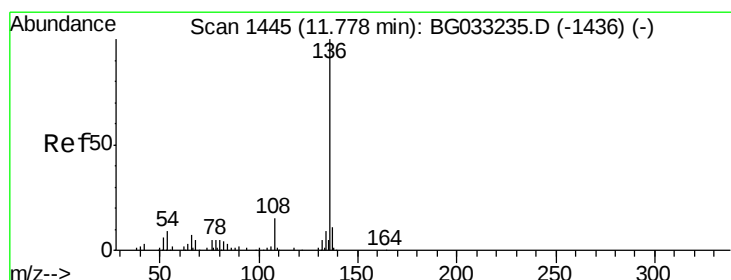
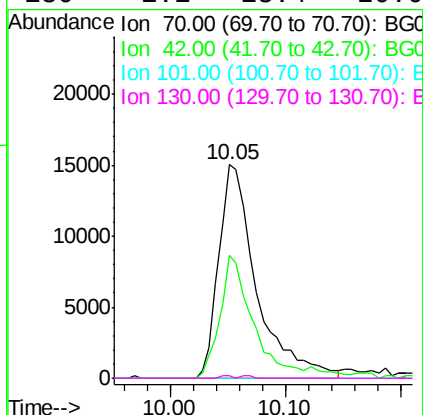




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.926 ng  
RT: 10.05 min Scan# 1151  
Delta R.T. 0.39 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

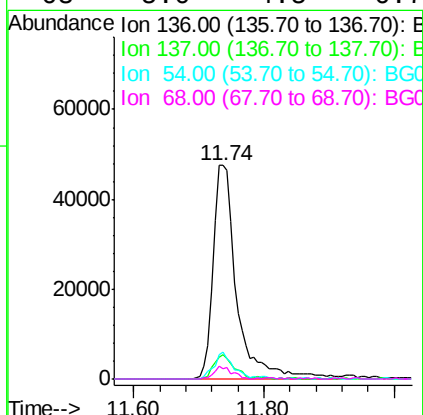
Instrument :  
BNA\_G  
ClientSampleId :

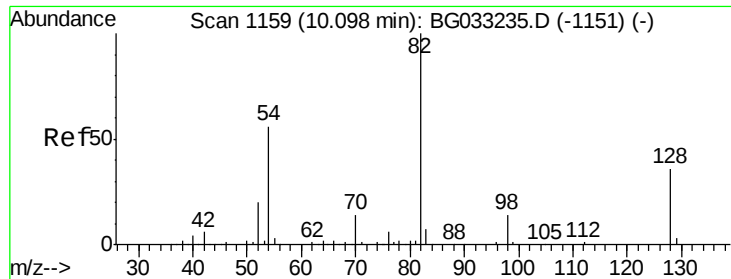
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 57.6  | 49.1  | 73.7  |
| 101     | 0.0   | 8.5   | 12.7# |
| 130     | 1.1   | 13.4  | 20.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.74 min Scan# 1438  
Delta R.T. 0.00 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.3  | 9.2   | 13.8  |
| 54      | 12.4  | 10.3  | 15.5  |
| 68      | 5.0   | 4.5   | 6.7   |

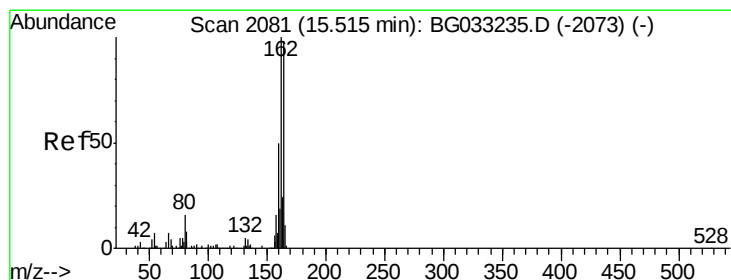
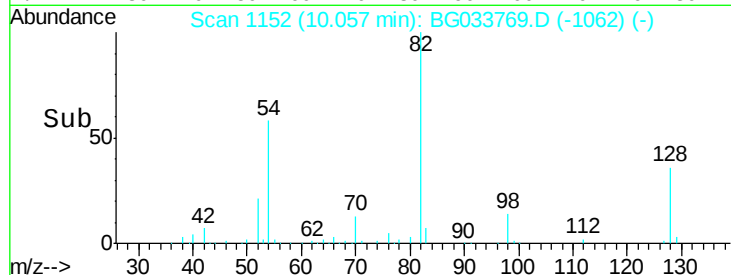
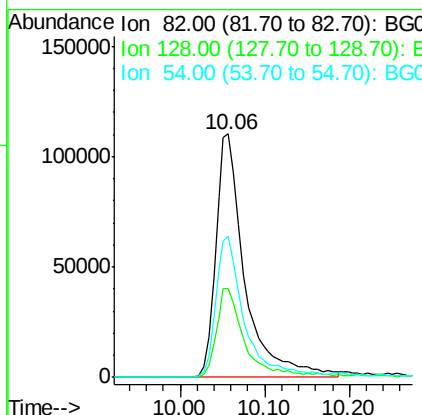
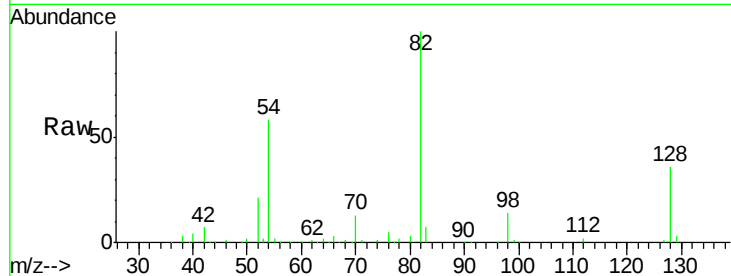




#23  
 Nitrobenzene-d5  
 Concen: 100.903 ng  
 RT: 10.06 min Scan# 1152  
 Delta R.T. 0.00 min  
 Lab File: BG033769.D  
 Acq: 12 Apr 2018 6:57

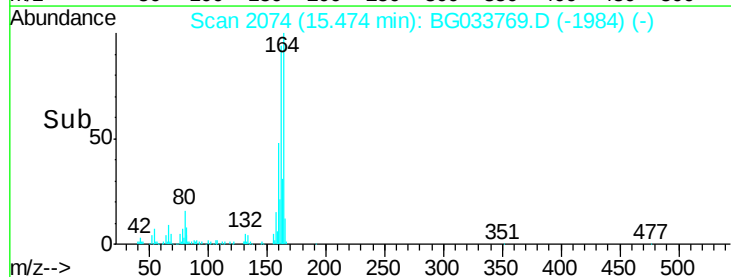
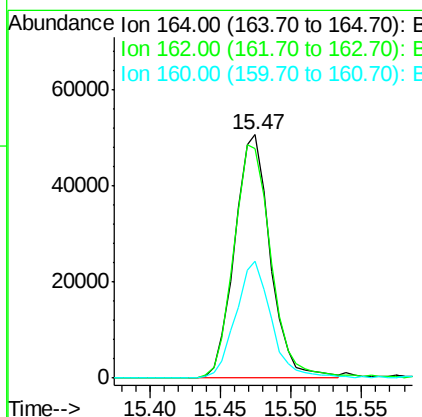
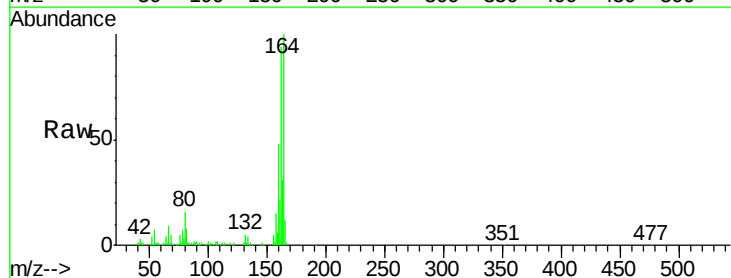
Instrument :  
 BNA\_G  
 ClientSampled :

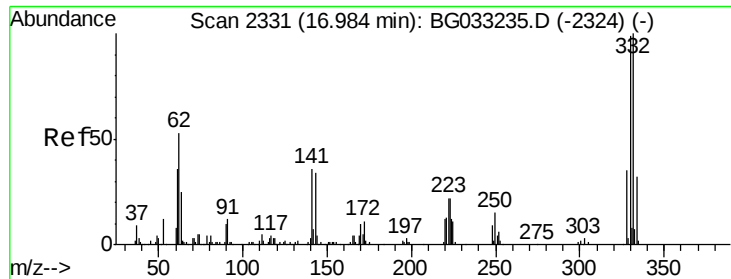
| Tot Ion   | 82    | Resp  | 263660 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 36.3  | 29.7  | 44.5   |
| 54        | 58.2  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2074  
 Delta R.T. 0.00 min  
 Lab File: BG033769.D  
 Acq: 12 Apr 2018 6:57

| Tgt Ion   | 164   | Resp  | 89321 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 94.4  | 78.8  | 118.2 |
| 160       | 47.9  | 35.4  | 53.0  |

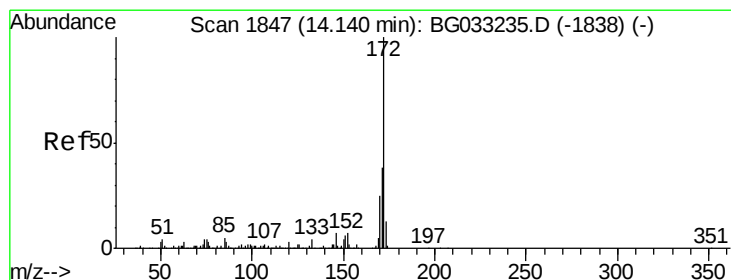
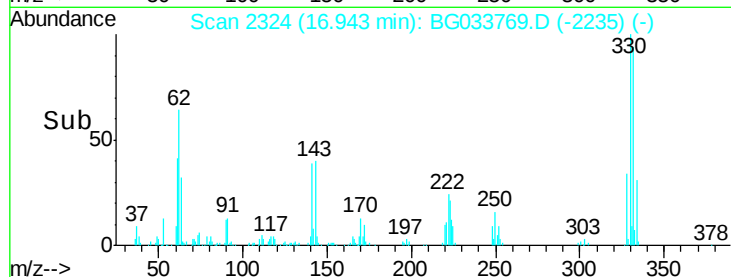
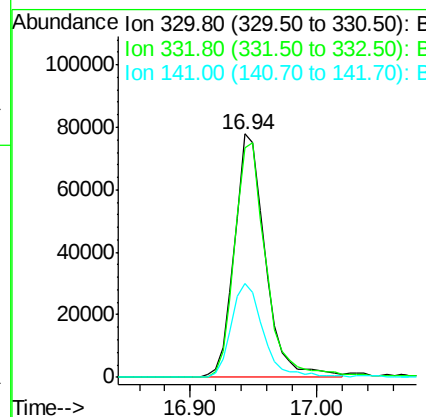
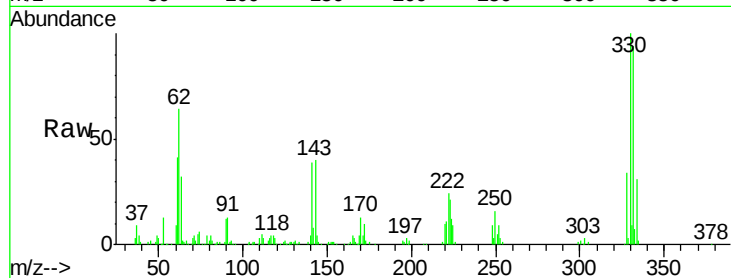




#41  
 2,4,6-Tribromophenol  
 Concen: 98.272 ng  
 RT: 16.94 min Scan# 2324  
 Delta R.T. -0.00 min  
 Lab File: BG033769.D  
 Acq: 12 Apr 2018 6:57

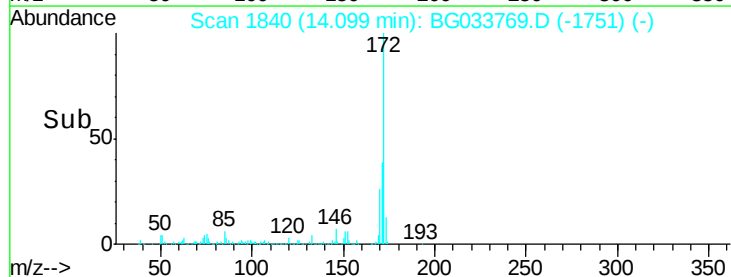
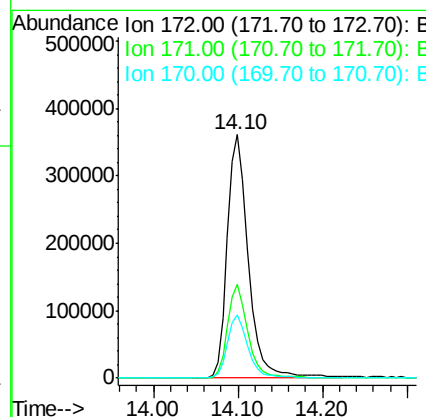
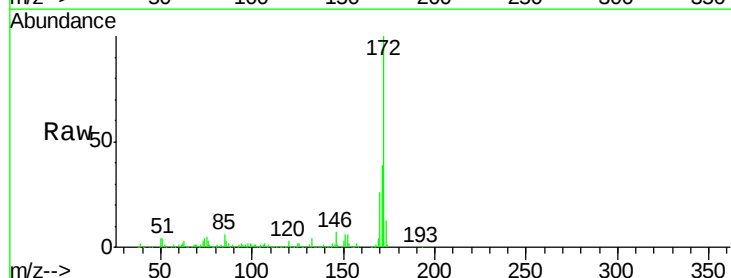
Instrument :  
 BNA\_G  
 ClientSampleId :

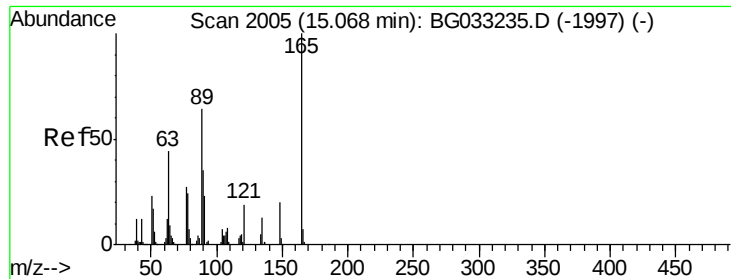
Tot Ion:330 Resp: 131281  
 Ion Ratio Lower Upper  
 330 100  
 332 98.2 77.0 115.6  
 141 40.1 25.2 37.8#



#44  
 2-Fluorobiphenyl  
 Concen: 101.260 ng  
 RT: 14.10 min Scan# 1840  
 Delta R.T. -0.00 min  
 Lab File: BG033769.D  
 Acq: 12 Apr 2018 6:57

Tgt Ion:172 Resp: 626517  
 Ion Ratio Lower Upper  
 172 100  
 171 38.8 30.0 45.0  
 170 25.7 19.5 29.3





#50

2,6-Dinitrotoluene

Concen: 6.772 ng

RT: 15.47 min Scan# 2074

Delta R.T. 0.44 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

Instrument :

BNA\_G

ClientSampleId :

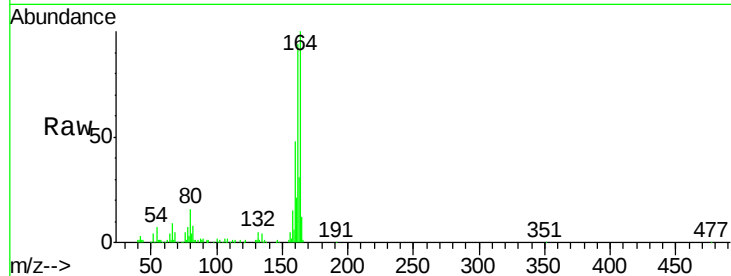
Tot Ion:165 Resp: 10764

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

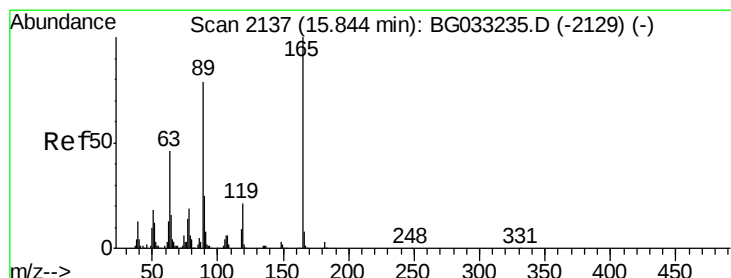
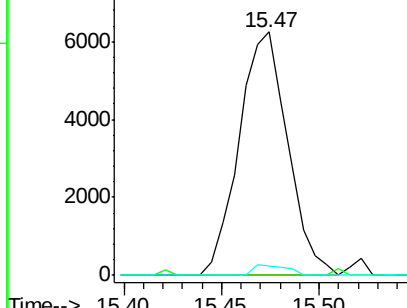
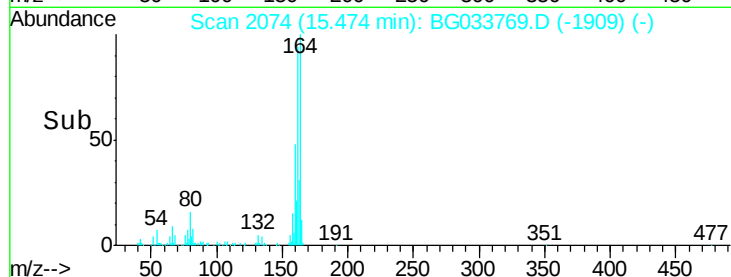
89 4.1 49.2 73.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC



#56

2,4-Dinitrotoluene

Concen: 4.599 ng

RT: 15.47 min Scan# 2074

Delta R.T. -0.34 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

Tgt Ion:165 Resp: 10764

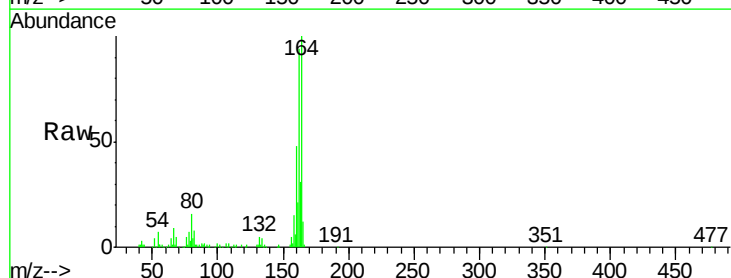
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 4.1 66.9 100.3#

182 0.0 2.6 3.8#

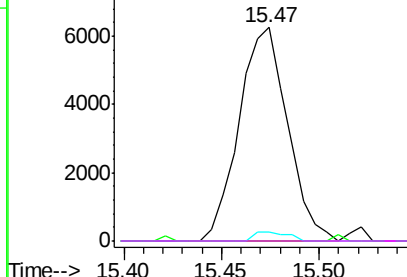
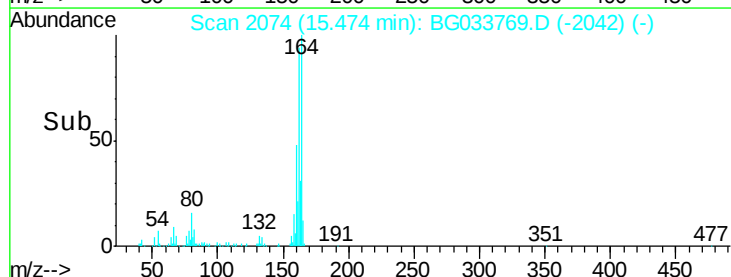


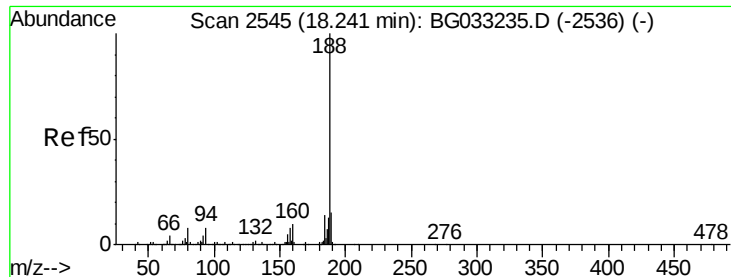
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E

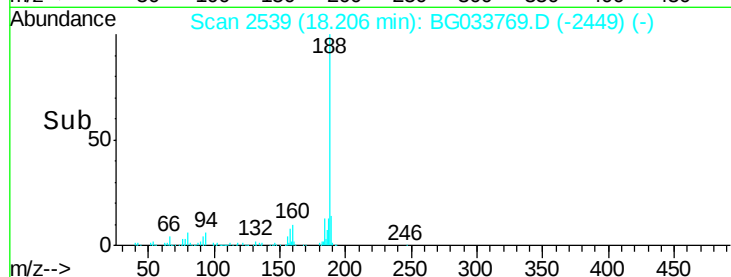
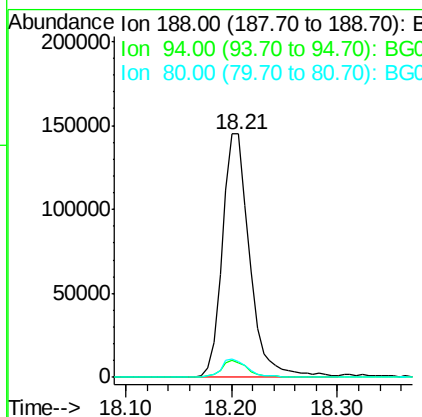
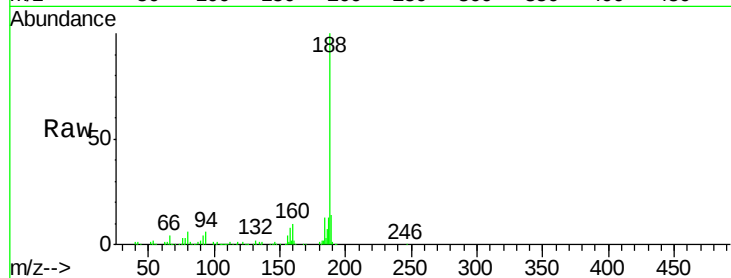




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.21 min Scan# 2539  
Delta R.T. 0.00 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

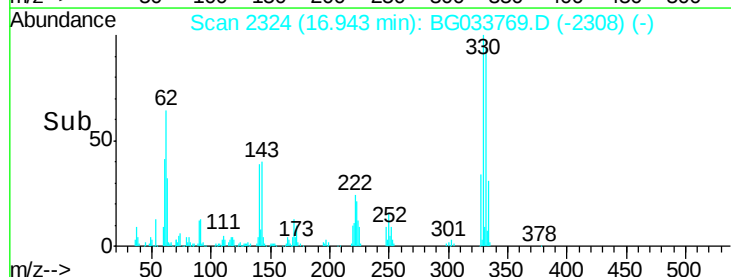
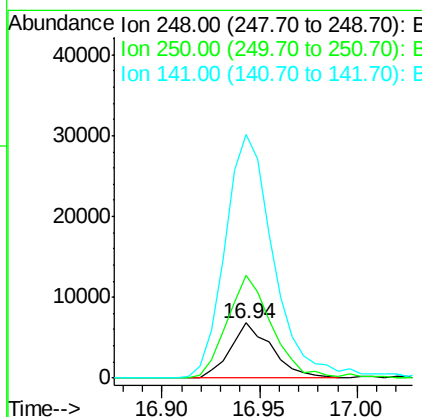
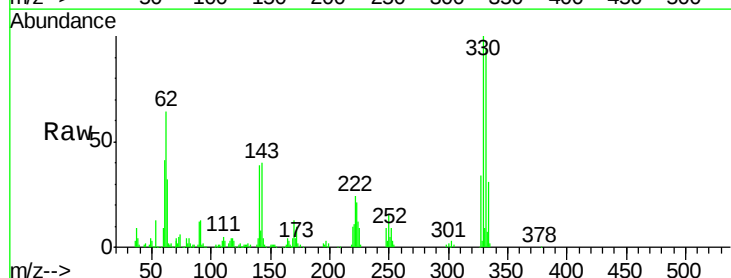
Instrument :  
BNA\_G  
ClientSampleId :

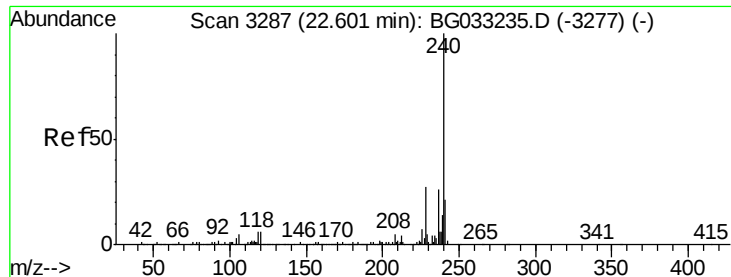
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.9   | 6.9   | 10.3# |
| 80      | 6.3   | 7.7   | 11.5# |



#66  
4-Bromophenyl-phenylether  
Concen: 3.313 ng  
RT: 16.94 min Scan# 2324  
Delta R.T. -0.43 min  
Lab File: BG033769.D  
Acq: 12 Apr 2018 6:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 185.4 | 77.1  | 115.7# |
| 141     | 441.3 | 50.8  | 76.2#  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.55 min Scan# 3278

Delta R.T. -0.00 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

Instrument :

BNA\_G

ClientSampleId :

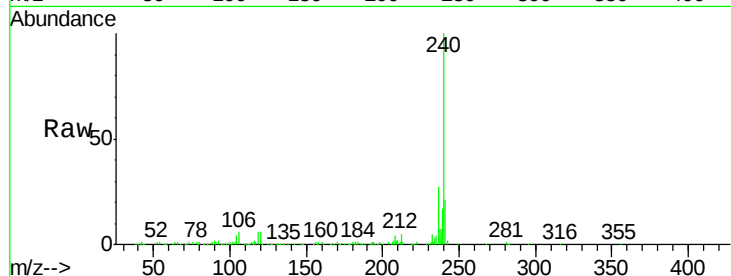
Tot Ion:240 Resp: 286372

Ion Ratio Lower Upper

240 100

120 6.2 6.8 10.2#

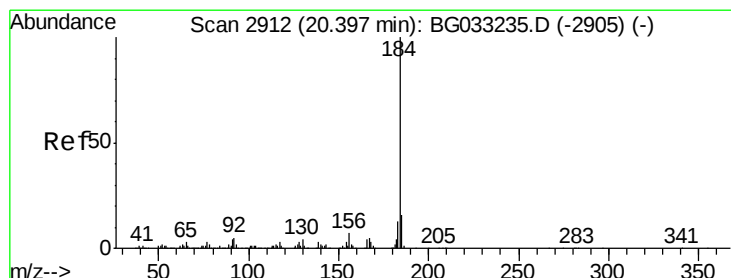
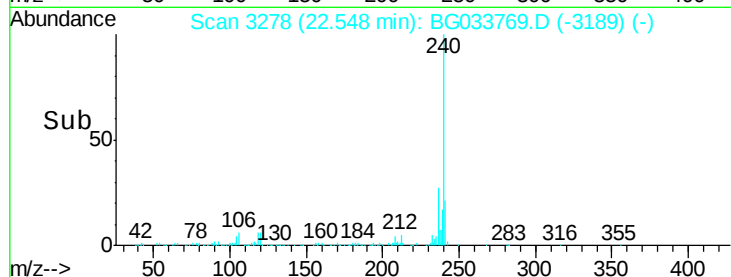
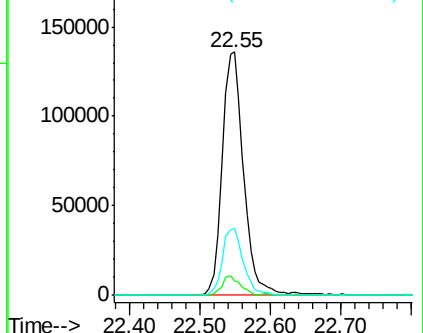
236 27.3 20.9 31.3



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: 3.238 ng

RT: 20.72 min Scan# 2967

Delta R.T. 0.36 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

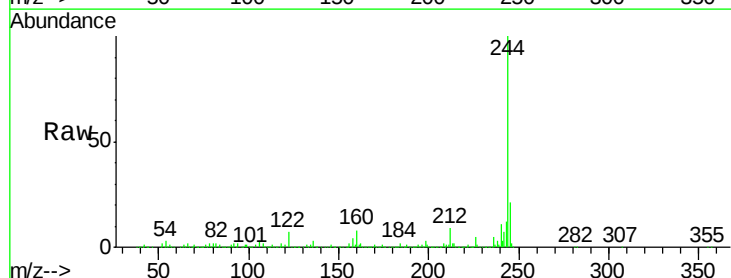
Tgt Ion:184 Resp: 25144

Ion Ratio Lower Upper

184 100

185 13.6 11.1 16.7

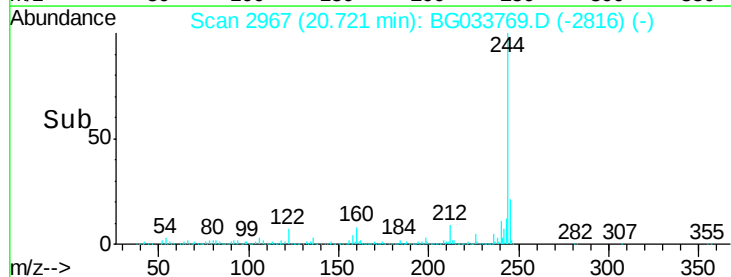
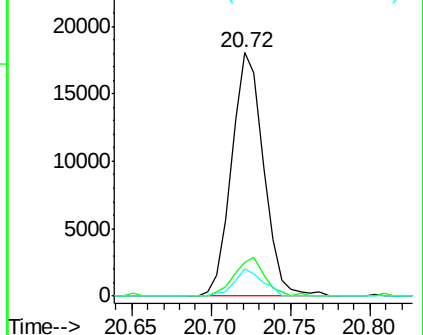
183 11.0 10.6 16.0

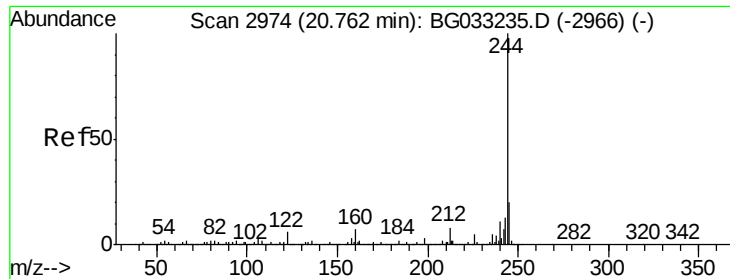


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 103.923 ng

RT: 20.72 min Scan# 2967

Delta R.T. -0.00 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

Instrument :

BNA\_G

ClientSampleId :

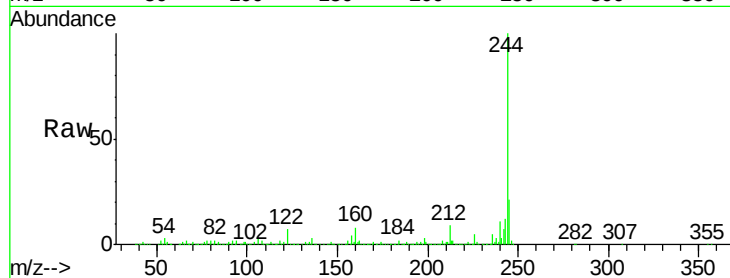
Tot Ion:244 Resp: 1391595

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

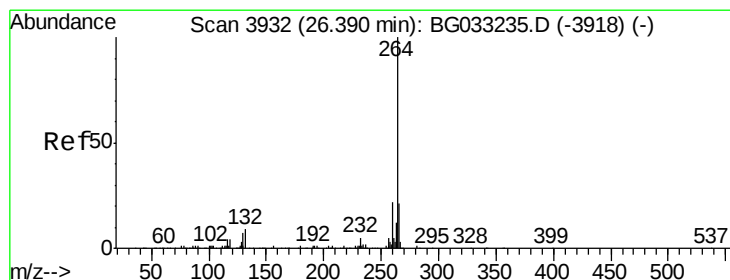
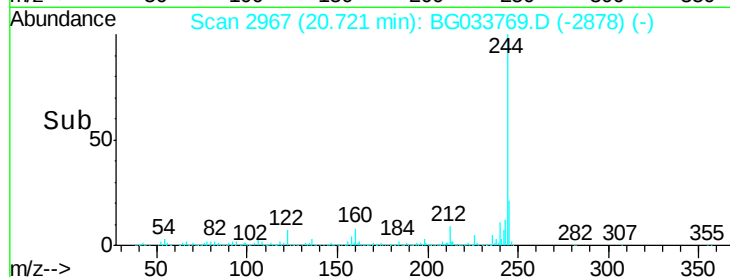
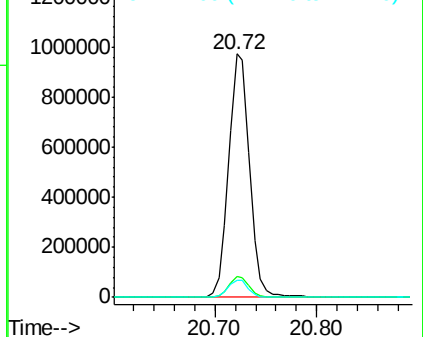
122 7.3 7.0 10.4



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: 20.000 ng

RT: 26.30 min Scan# 3917

Delta R.T. -0.00 min

Lab File: BG033769.D

Acq: 12 Apr 2018 6:57

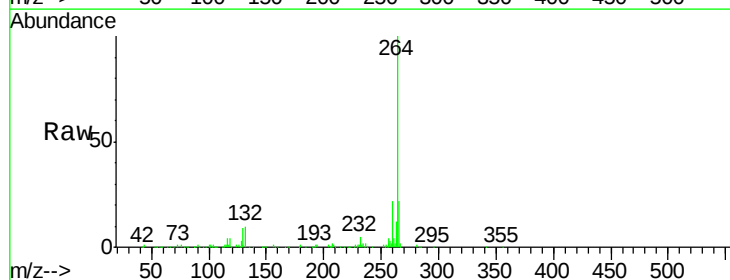
Tgt Ion:264 Resp: 310070

Ion Ratio Lower Upper

264 100

260 21.8 17.4 26.0

265 22.0 17.7 26.5



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

