

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122717\  
 Data File : BG031803.D  
 Acq On : 27 Dec 2017 19:14  
 Operator : SJ/JU  
 Sample : I7058-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 28 07:19:41 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG122117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 22 11:08:55 2017  
 Response via : Initial Calibration

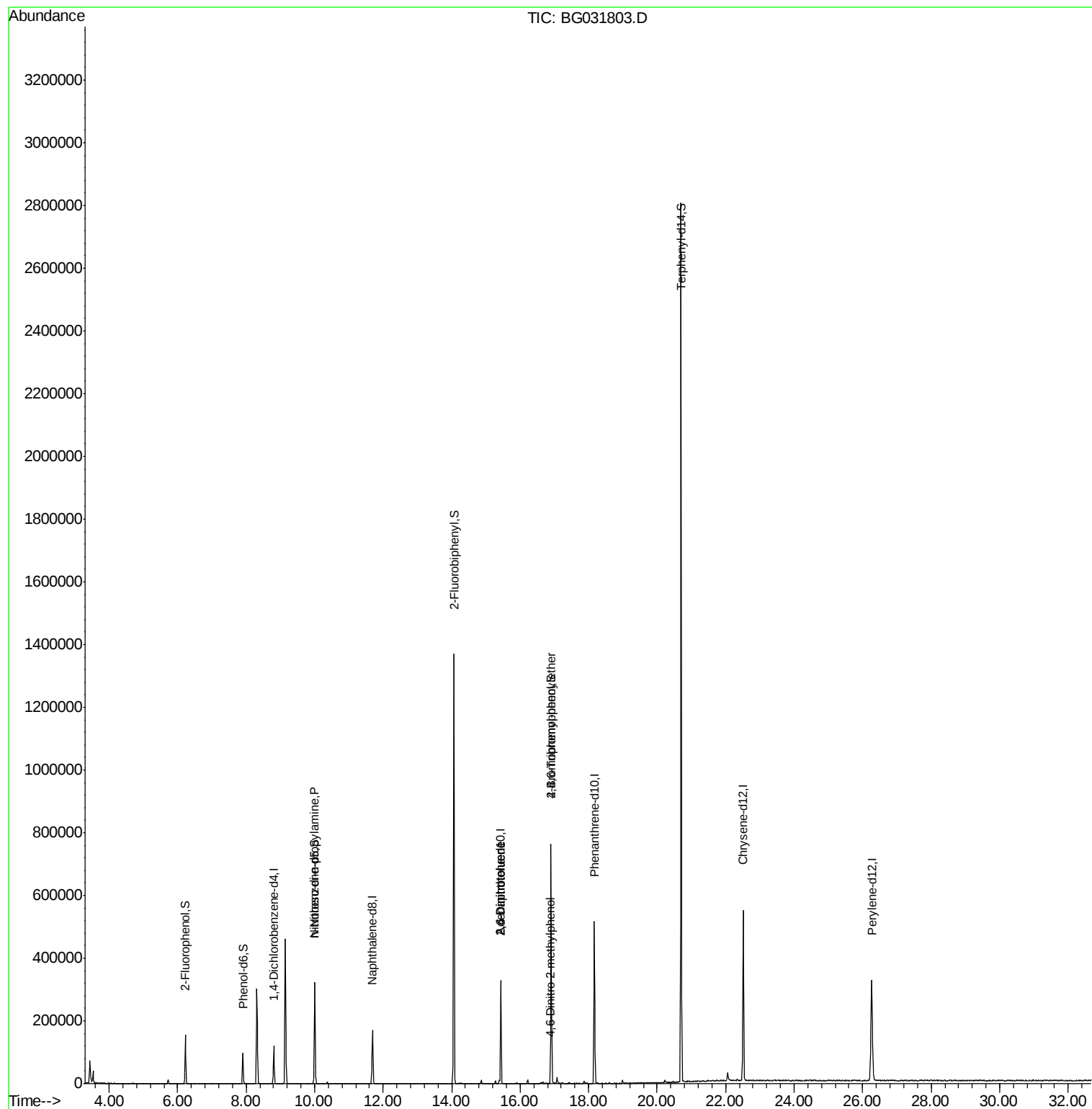
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.81  | 152  | 42075    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 11.69 | 136  | 175620   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 15.43 | 164  | 129149   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 18.17 | 188  | 348730   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12               | 22.51 | 240  | 423992   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 26.26 | 264  | 452906   | 20.00  | ng    | -0.10    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.22  | 112  | 83354    | 36.08  | ng    | -0.03    |
| 7) Phenol-d6                   | 7.90  | 99   | 68003    | 22.67  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 10.00 | 82   | 210838   | 90.66  | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol       | 16.90 | 330  | 186224   | 94.50  | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 14.07 | 172  | 834510   | 81.10  | ng    | -0.03    |
| 78) Terphenyl-d14              | 20.70 | 244  | 1503504  | 81.02  | ng    | -0.04    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.00 | 70   | 27925    | 13.633 | ng    | # 74     |
| 50) 2,6-Dinitrotoluene         | 15.43 | 165  | 16341    | 7.807  | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 15.43 | 165  | 16341    | 6.072  | ng    | # 18     |
| 64) 4,6-Dinitro-2-methylphenol | 16.87 | 198  | 58       | 8.334  | ng    | # 29     |
| 66) 4-Bromophenyl-phenylether  | 16.90 | 248  | 14758    | 2.927  | ng    | # 1      |

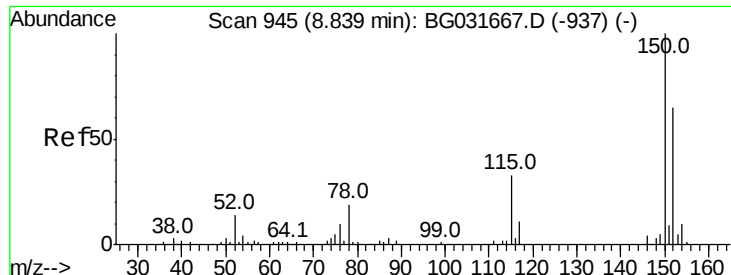
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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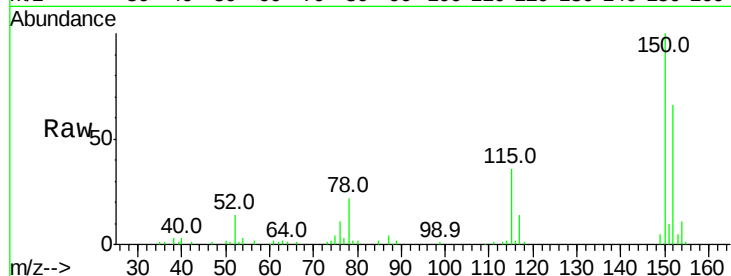


#1

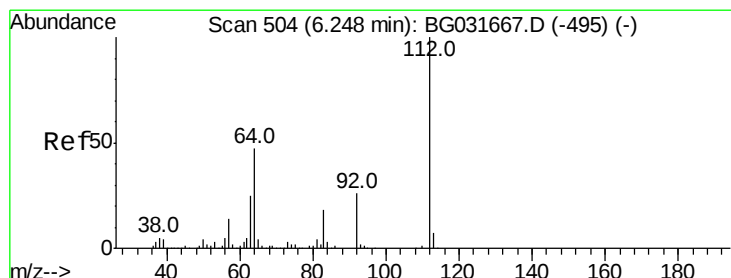
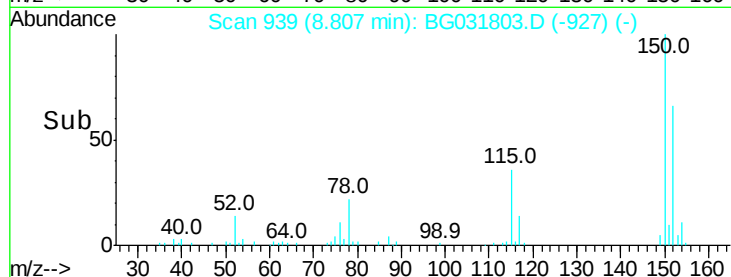
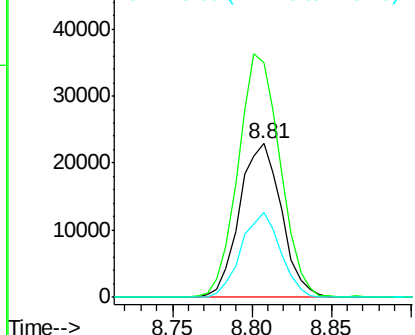
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.81 min Scan# 939  
Delta R.T. -0.03 min  
Lab File: BG031803.D  
Acq: 27 Dec 2017 19:14

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 42075  
Ion Ratio Lower Upper  
152 100  
150 152.6 126.6 189.8  
115 55.0 53.0 79.4



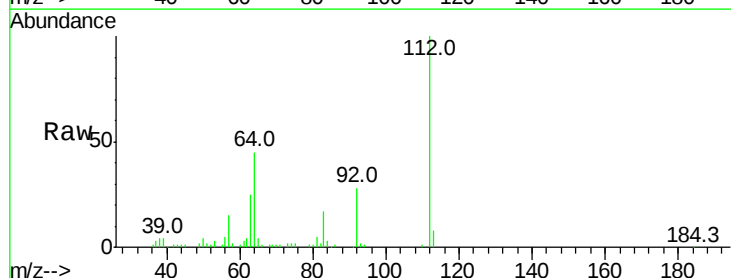
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



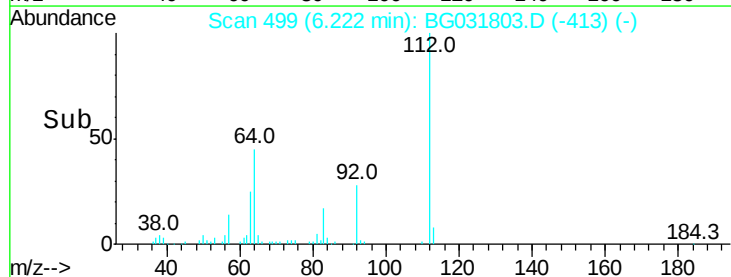
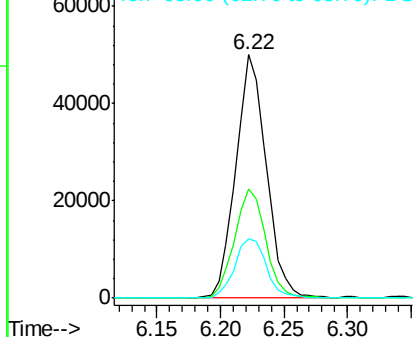
#5

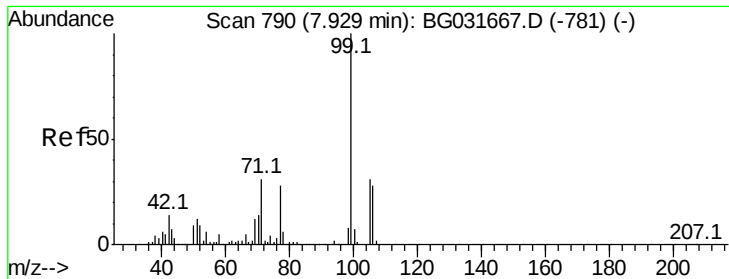
2-Fluorophenol  
Concen: 36.083 ng  
RT: 6.22 min Scan# 499  
Delta R.T. -0.03 min  
Lab File: BG031803.D  
Acq: 27 Dec 2017 19:14

Tgt Ion:112 Resp: 83354  
Ion Ratio Lower Upper  
112 100  
64 44.7 56.3 84.5#  
63 24.6 30.1 45.1#



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: 22.674 ng

RT: 7.90 min Scan# 784

Delta R.T. -0.03 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

Instrument :

BNA\_G

ClientSampleId :

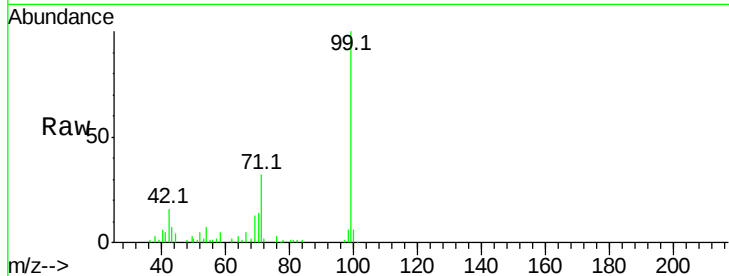
Tot Ion: 99 Resp: 68003

Ion Ratio Lower Upper

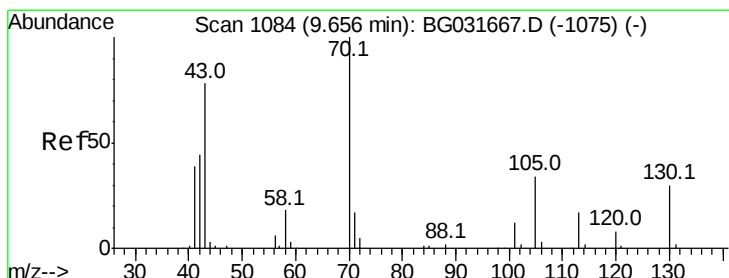
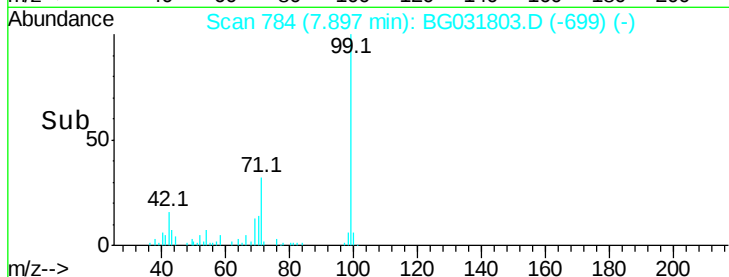
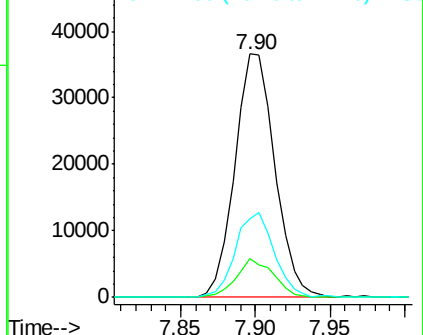
99 100

42 16.1 14.1 21.1

71 32.3 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



#19

n-Nitroso-di-n-propylamine

Concen: 13.633 ng

RT: 10.00 min Scan# 1142

Delta R.T. 0.34 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

Tgt Ion: 70 Resp: 27925

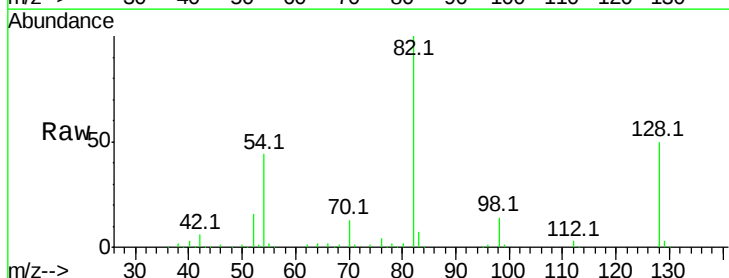
Ion Ratio Lower Upper

70 100

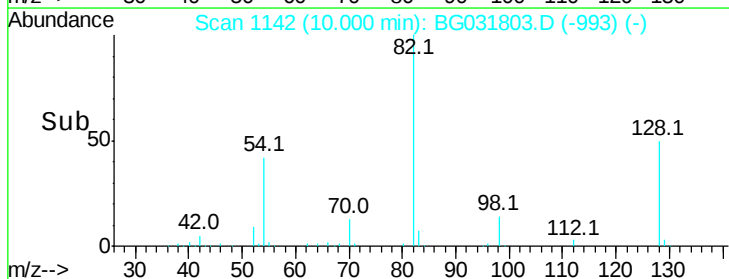
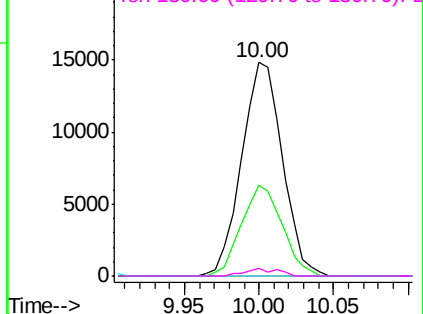
42 42.3 49.1 73.7#

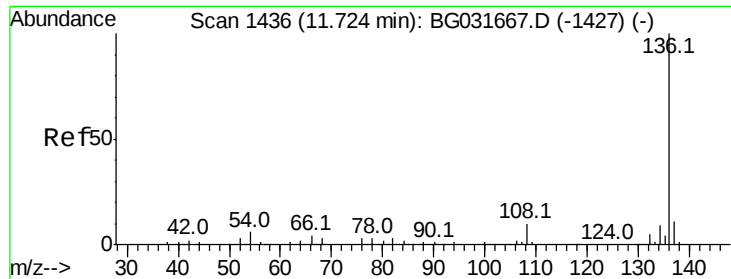
101 0.0 8.5 12.7#

130 3.4 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

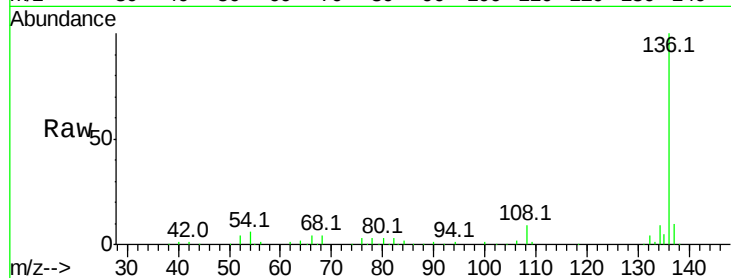




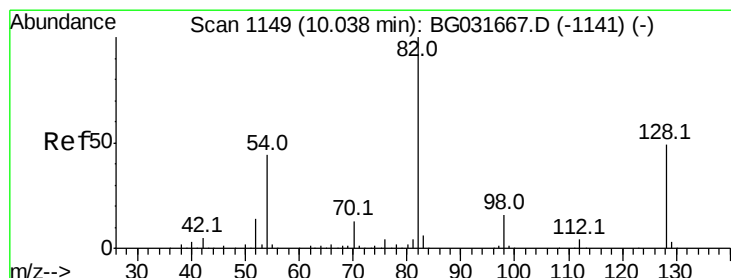
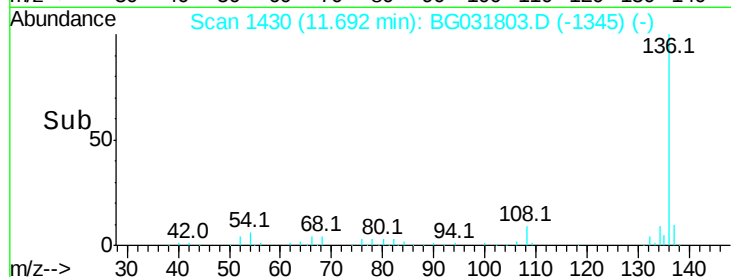
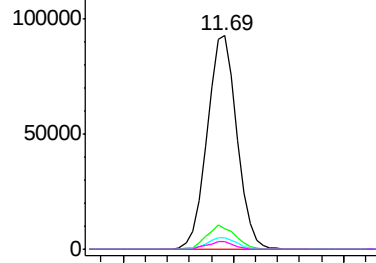
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.69 min Scan# 1430  
Delta R.T. -0.03 min  
Lab File: BG031803.D  
Acq: 27 Dec 2017 19:14

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 175620 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.8   | 9.2   | 13.8   |
| 54       | 5.6   | 10.3  | 15.5#  |
| 68       | 3.8   | 4.5   | 6.7#   |

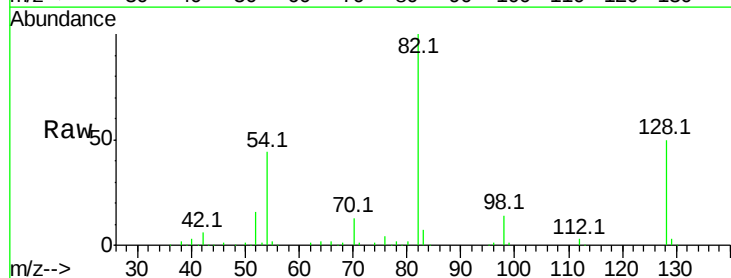


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

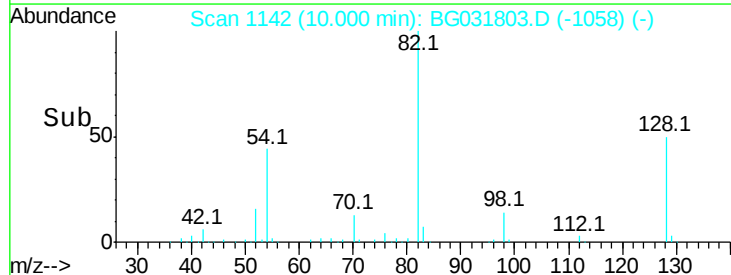
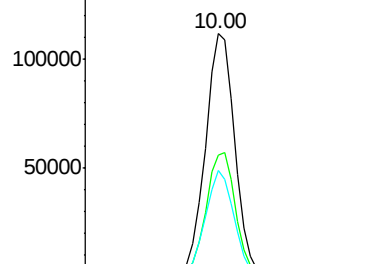


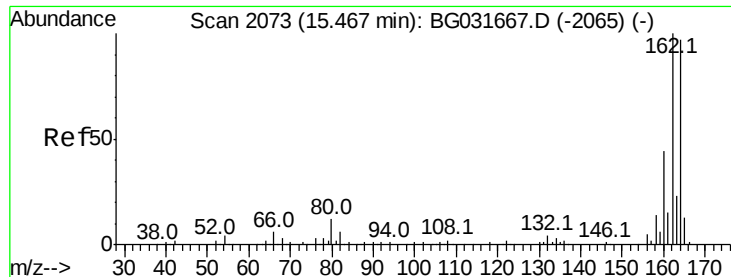
#23  
Nitrobenzene-d5  
Concen: 90.655 ng  
RT: 10.00 min Scan# 1142  
Delta R.T. -0.04 min  
Lab File: BG031803.D  
Acq: 27 Dec 2017 19:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 210838 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 50.3  | 29.7  | 44.5#  |
| 54       | 44.0  | 43.1  | 64.7   |



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.43 min Scan# 2067

Delta R.T. -0.03 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

Instrument :

BNA\_G

ClientSampleId :

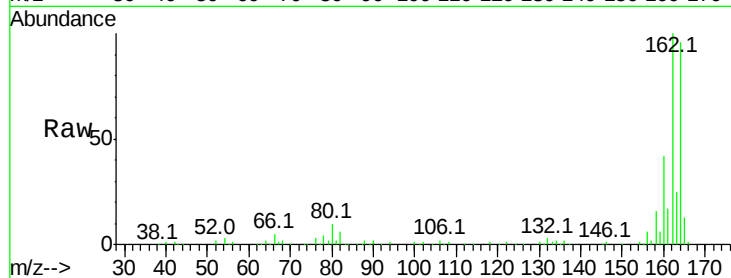
Tot Ion:164 Resp: 129149

Ion Ratio Lower Upper

164 100

162 104.6 78.8 118.2

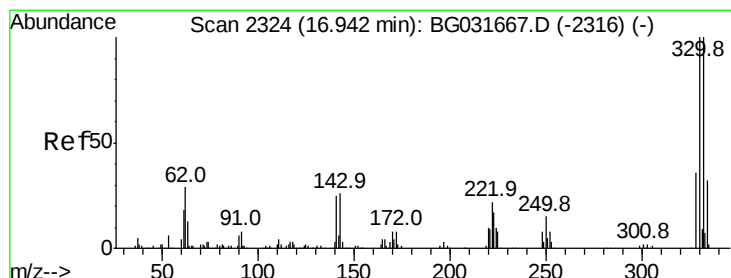
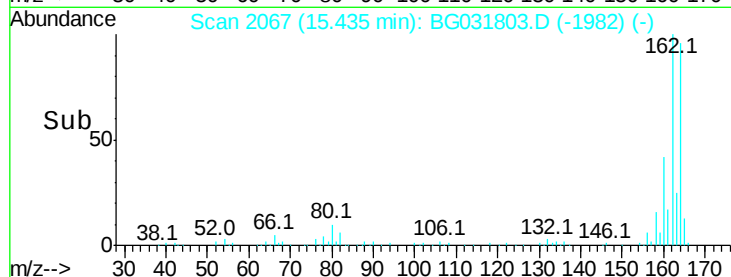
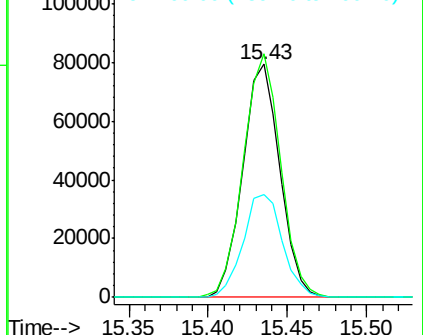
160 44.4 35.4 53.0



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: 94.499 ng

RT: 16.90 min Scan# 2317

Delta R.T. -0.04 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

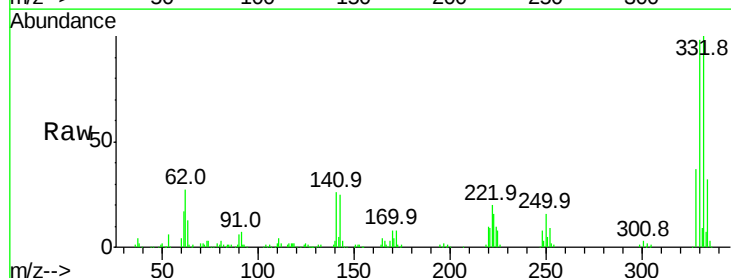
Tgt Ion:330 Resp: 186224

Ion Ratio Lower Upper

330 100

332 98.2 77.0 115.6

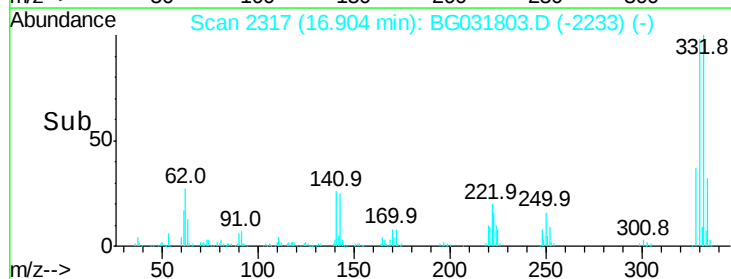
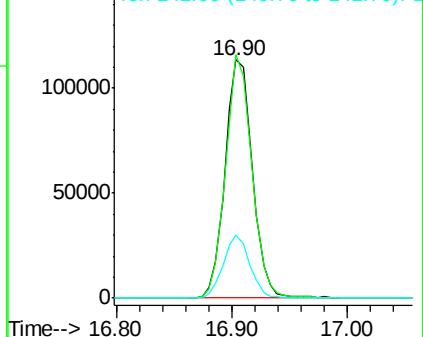
141 25.7 25.2 37.8



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

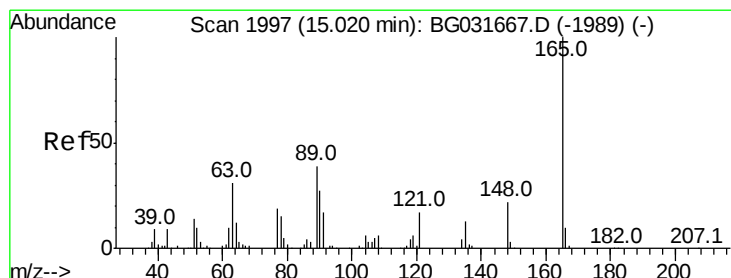
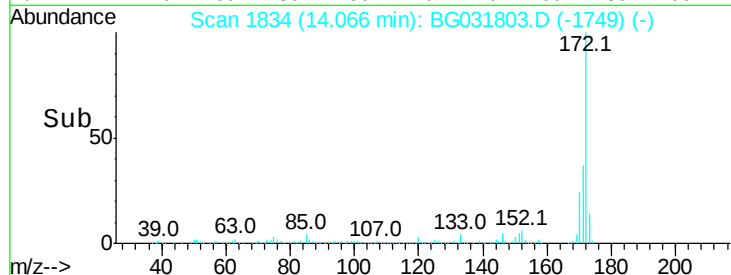
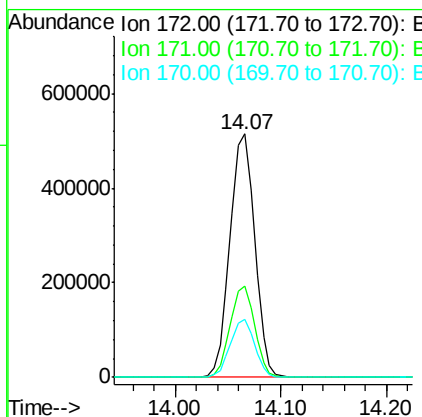
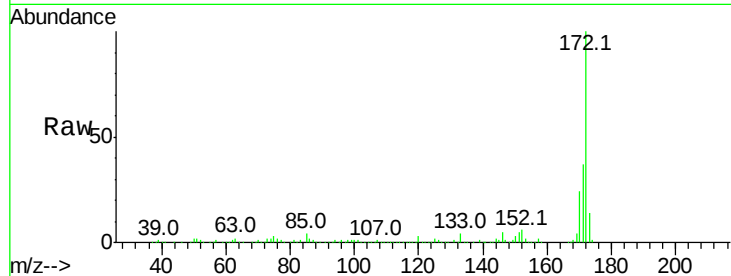




#44  
 2-Fluorobiphenyl  
 Concen: 81.102 ng  
 RT: 14.07 min Scan# 1834  
 Delta R.T. -0.03 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

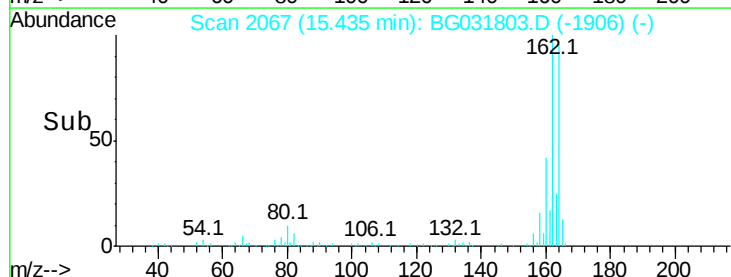
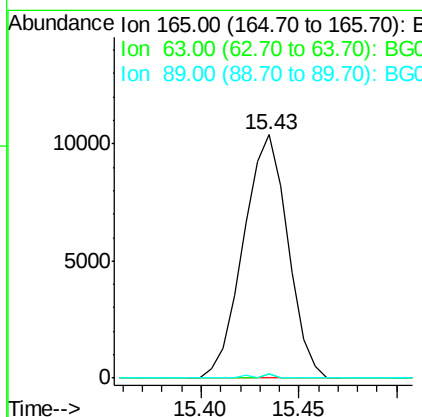
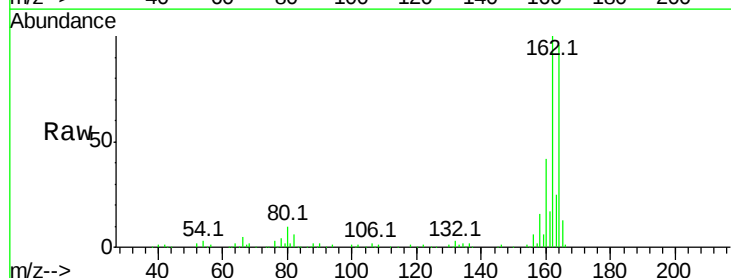
Instrument :  
 BNA\_G  
 ClientSampleId :

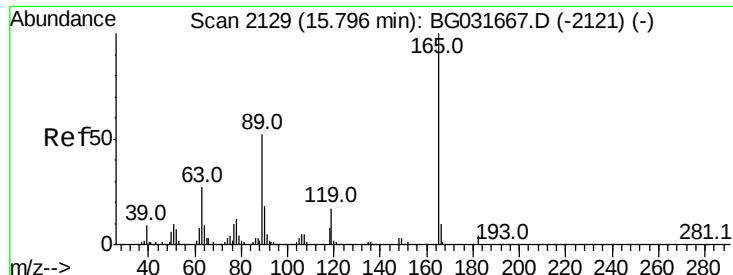
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.2  | 30.0  | 45.0  |
| 170     | 23.8  | 19.5  | 29.3  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.807 ng  
 RT: 15.43 min Scan# 2067  
 Delta R.T. 0.41 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 52.7  | 79.1# |
| 89      | 1.7   | 49.2  | 73.8# |

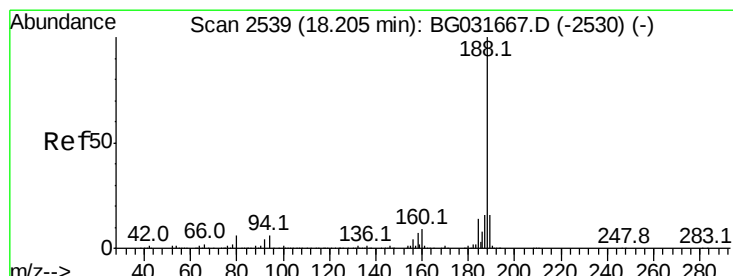
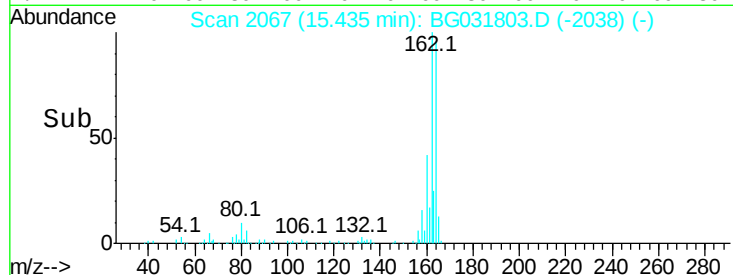
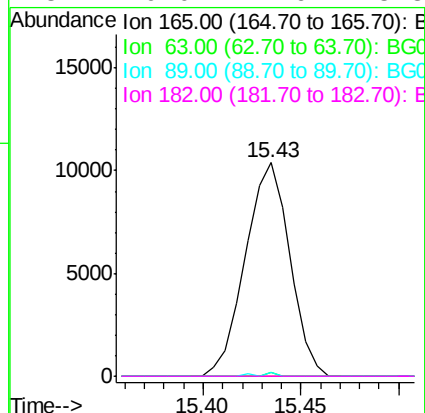
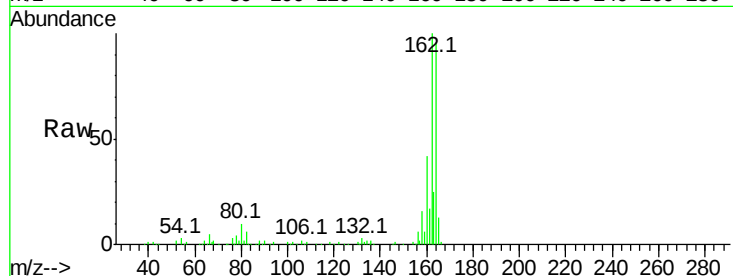




#56  
 2,4-Dinitrotoluene  
 Concen: 6.072 ng  
 RT: 15.43 min Scan# 2067  
 Delta R.T. -0.36 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

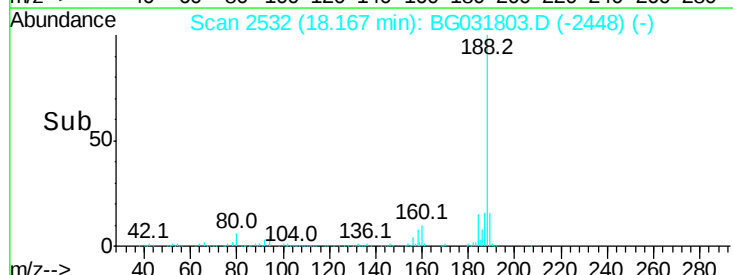
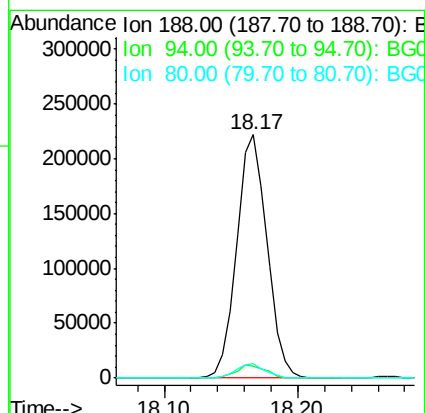
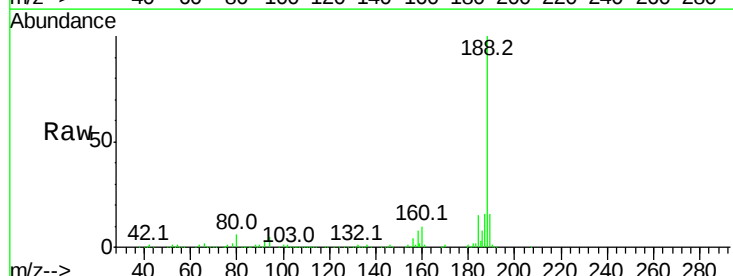
Instrument :  
 BNA\_G  
 ClientSampleId :

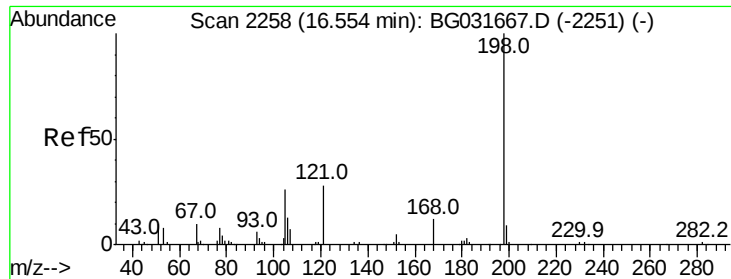
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 1.9   | 42.0  | 63.0#  |
| 89      | 1.7   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.17 min Scan# 2532  
 Delta R.T. -0.04 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.1   | 6.9   | 10.3# |
| 80      | 6.1   | 7.7   | 11.5# |

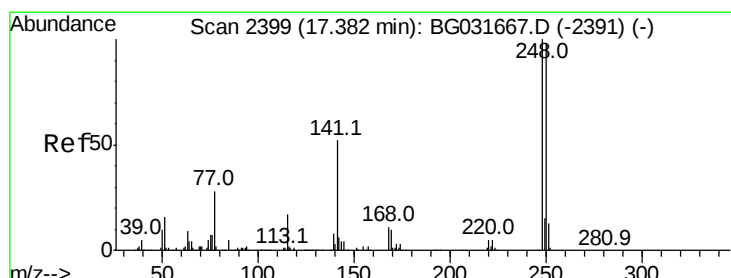
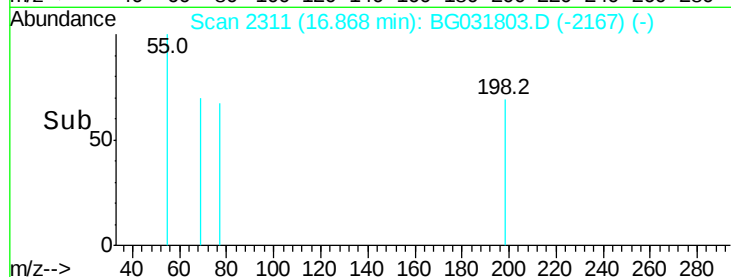
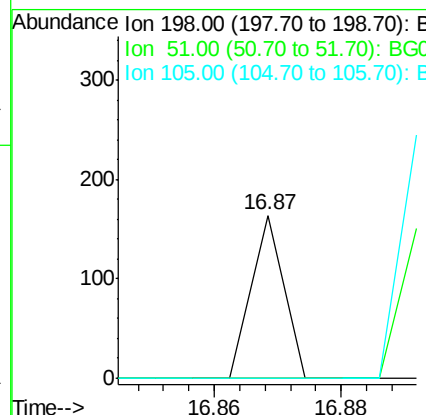
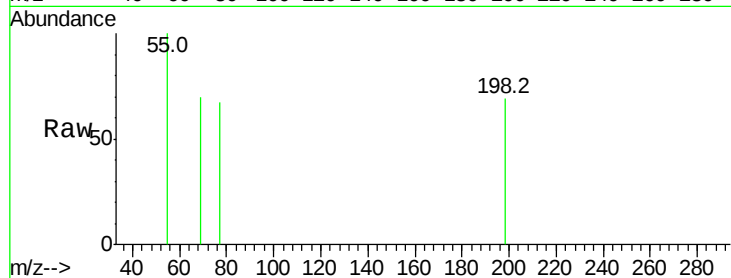




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.334 ng  
 RT: 16.87 min Scan# 2311  
 Delta R.T. 0.32 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

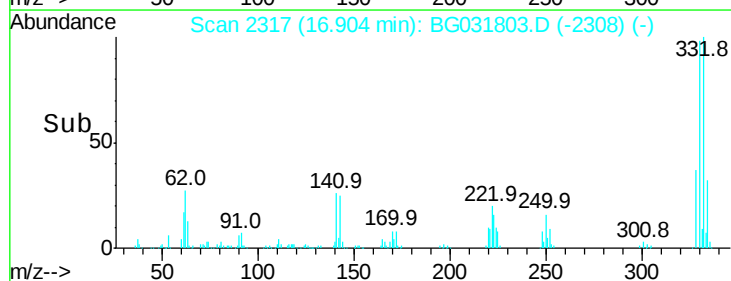
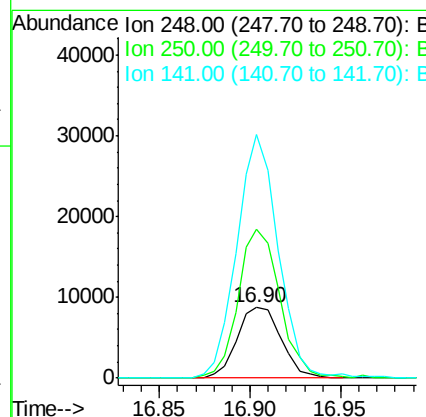
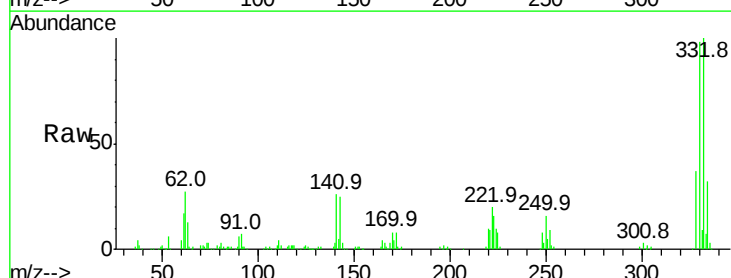
Instrument :  
 BNA\_G  
 ClientSampleId :

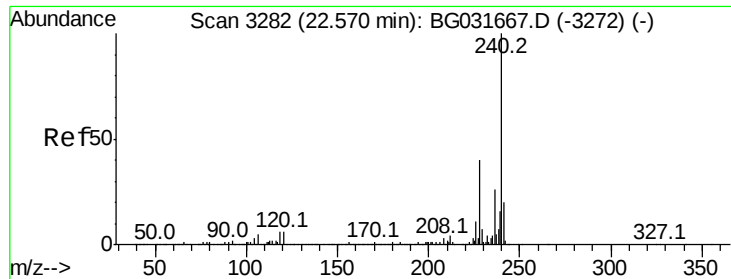
Tot Ion:198 Resp: 58  
 Ion Ratio Lower Upper  
 198 100  
 51 0.0 30.6 70.6#  
 105 0.0 23.8 63.8#



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.927 ng  
 RT: 16.90 min Scan# 2317  
 Delta R.T. -0.48 min  
 Lab File: BG031803.D  
 Acq: 27 Dec 2017 19:14

Tgt Ion:248 Resp: 14758  
 Ion Ratio Lower Upper  
 248 100  
 250 210.1 77.1 115.7#  
 141 344.2 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.51 min Scan# 3271

Delta R.T. -0.06 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

Instrument :

BNA\_G

ClientSampleId :

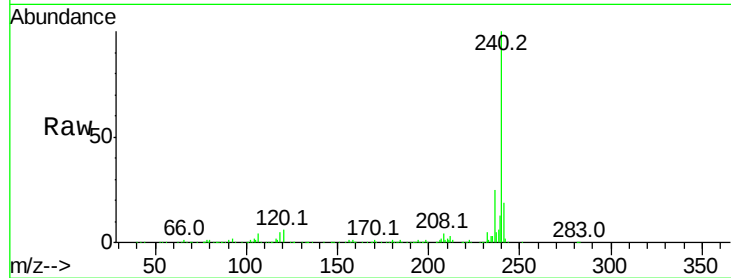
Tot Ion:240 Resp: 423992

Ion Ratio Lower Upper

240 100

120 6.3 6.8 10.2#

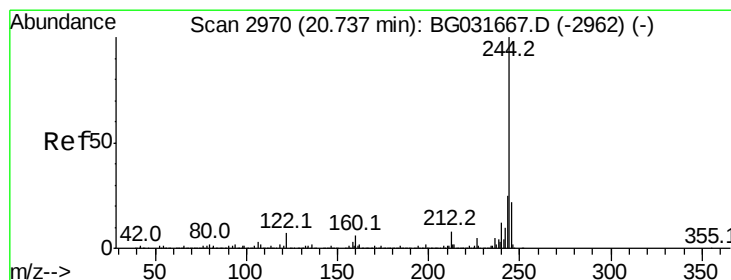
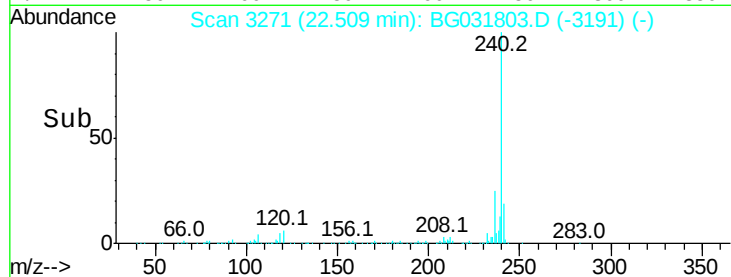
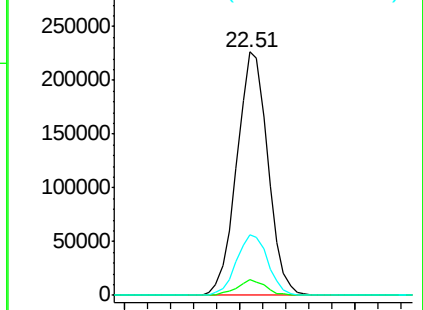
236 24.9 20.9 31.3



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



#78

Terphenyl-d14

Concen: 81.015 ng

RT: 20.70 min Scan# 2963

Delta R.T. -0.04 min

Lab File: BG031803.D

Acq: 27 Dec 2017 19:14

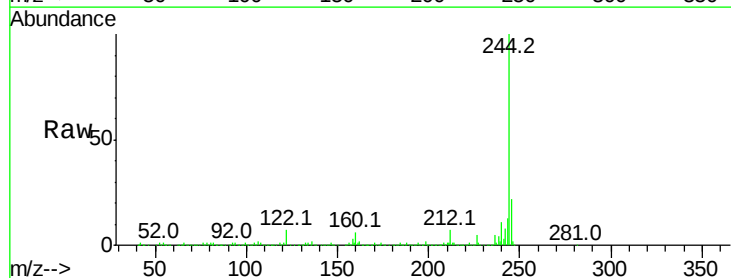
Tgt Ion:244 Resp: 1503504

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

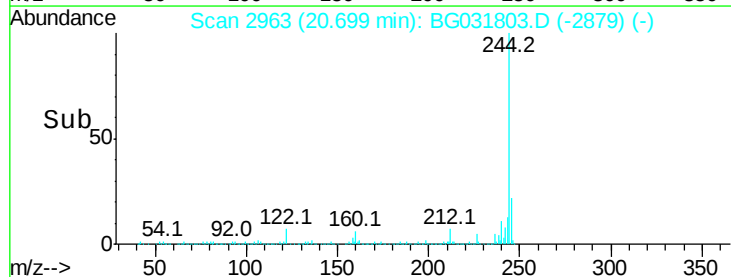
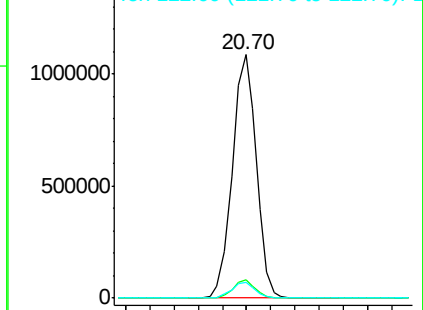
122 6.7 7.0 10.4#

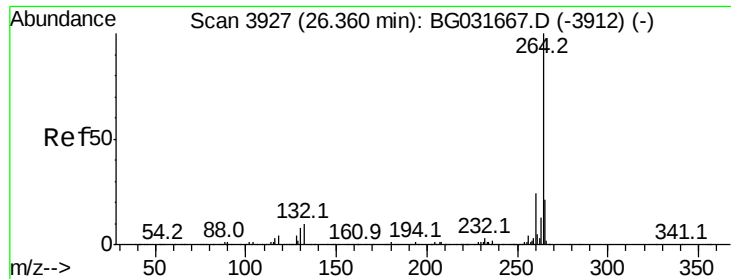


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

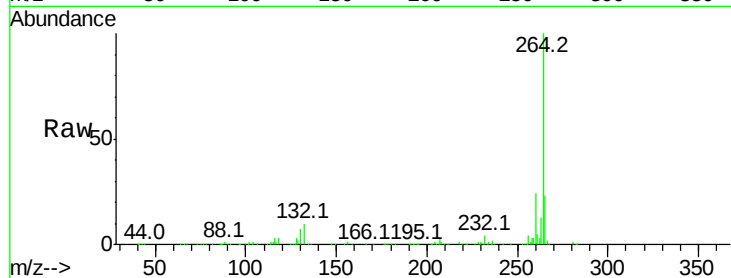




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.26 min Scan# 3910  
Delta R.T. -0.10 min  
Lab File: BG031803.D  
Acq: 27 Dec 2017 19:14

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 17.4  | 26.0  |
| 265     | 22.9  | 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

