

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080918\  
 Data File : BG036248.D  
 Acq On : 10 Aug 2018 00:50  
 Operator : JU/SJ  
 Sample : J4379-16  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 10 04:27:59 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 31 12:30:06 2018  
 Response via : Initial Calibration

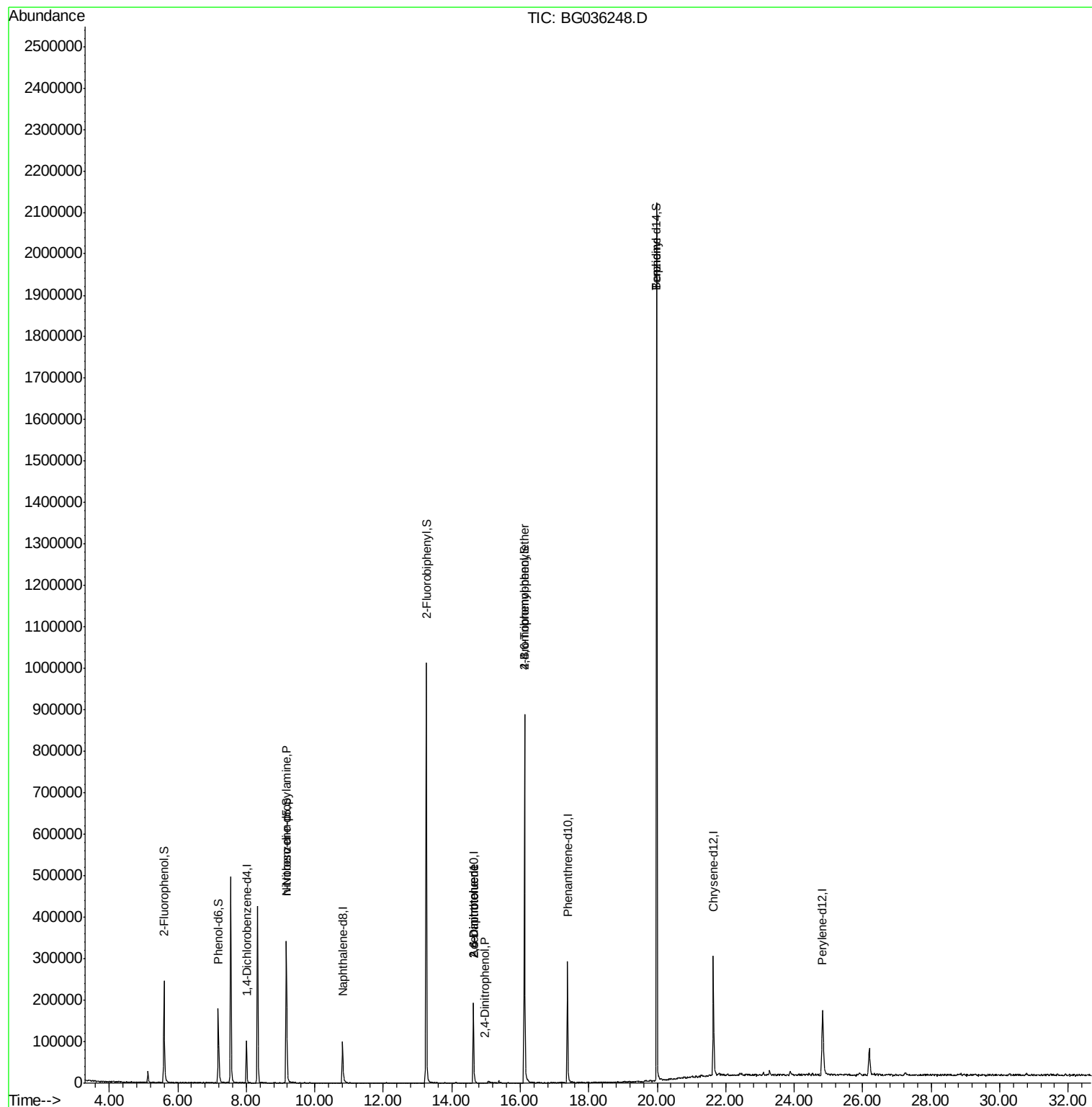
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 28240    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.81 | 136  | 103211   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.63 | 164  | 74697    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.38 | 188  | 201755   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 21.64 | 240  | 211918   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.83 | 264  | 200727   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 115977   | 68.18  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 124086   | 48.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 253719   | 102.69 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.12 | 330  | 169794   | 172.46 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.26 | 172  | 567818   | 101.84 | ng    | -0.02    |
| 78) Terphenyl-d14              | 19.98 | 244  | 1036407  | 107.80 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 35263    | 16.501 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 14.64 | 165  | 9982     | 7.490  | ng    | # 20     |
| 53) 2,4-Dinitrophenol          | 14.95 | 184  | 55       | 6.656  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 14.64 | 165  | 9982     | 5.221  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.13 | 248  | 13789    | 5.891  | ng    | # 1      |
| 76) Benzidine                  | 19.98 | 184  | 18186    | 3.264  | ng    | # 84     |

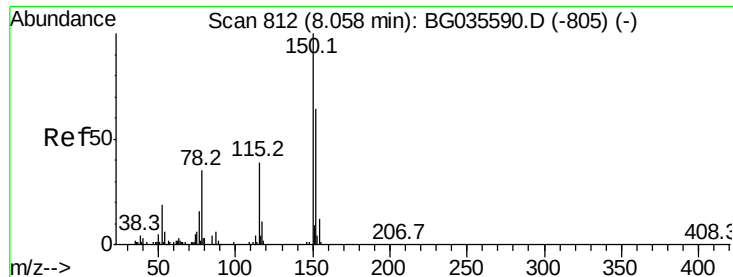
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J4379-16  
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Instrument :  
BNA\_G  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 31 12:30:06 2018  
Response via : Initial Calibration



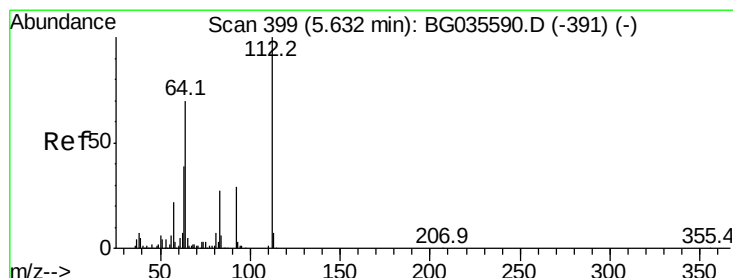
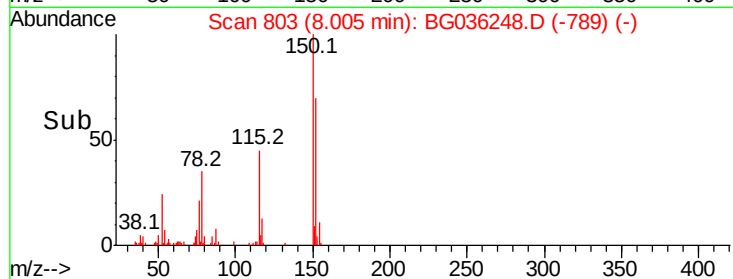
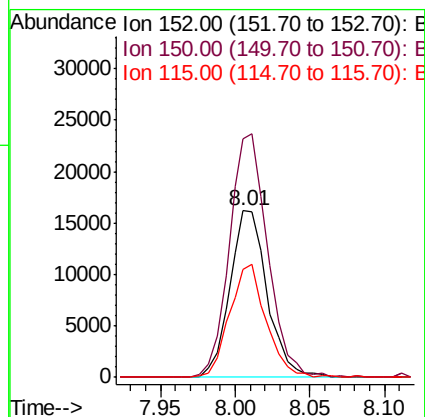
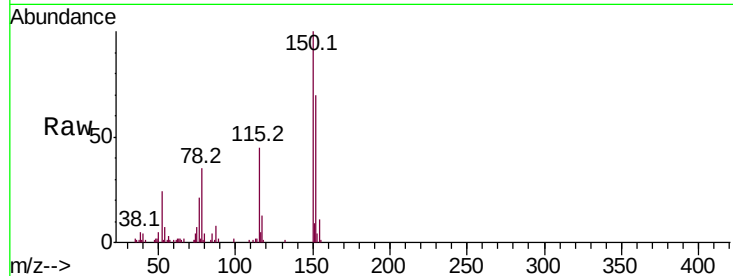


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 803  
Delta R.T. -0.02 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

Instrument :  
BNA\_G  
ClientSampleId :

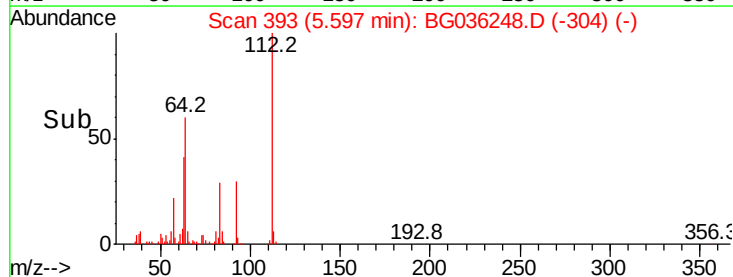
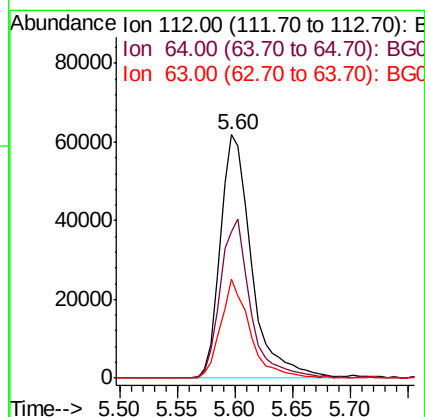
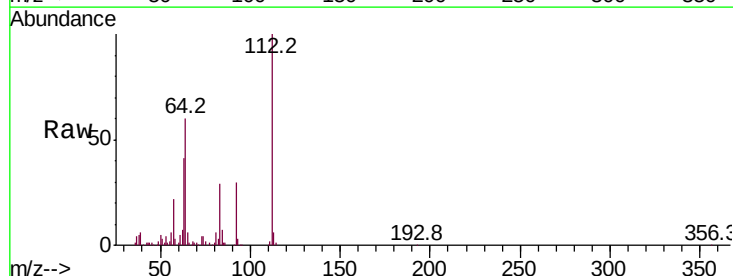
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 143.3 | 126.6 | 189.8 |
| 115     | 65.1  | 53.0  | 79.4  |

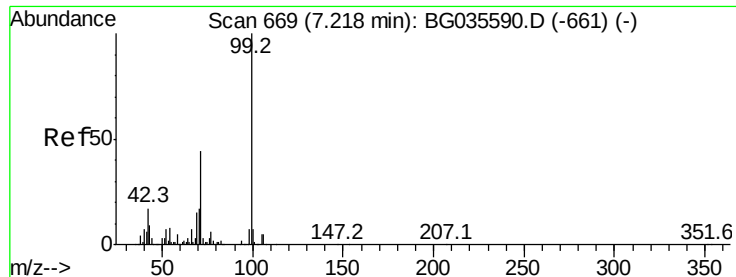


#5

2-Fluorophenol  
Concen: 68.183 ng  
RT: 5.60 min Scan# 393  
Delta R.T. -0.01 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 56.3  | 84.5  |
| 63      | 40.7  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 48.895 ng

RT: 7.19 min Scan# 664

Delta R.T. -0.01 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Instrument :

BNA\_G

ClientSampleId :

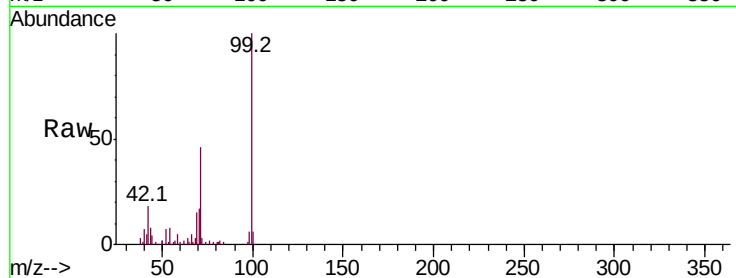
Tot Ion: 99 Resp: 124086

Ion Ratio Lower Upper

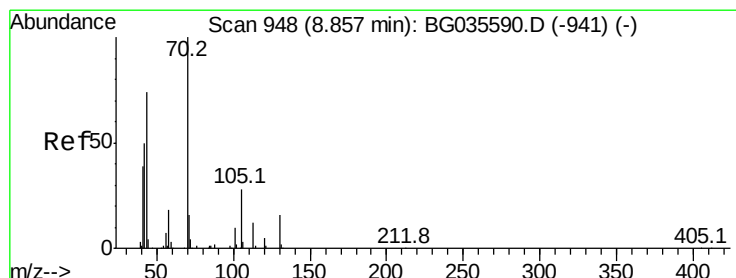
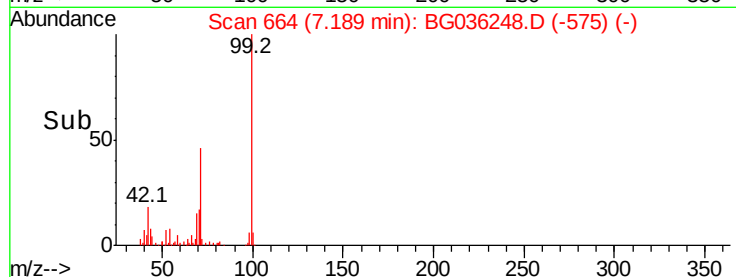
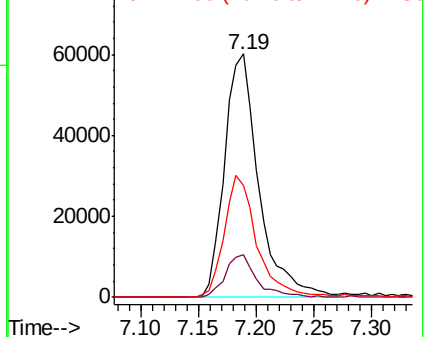
99 100

42 17.8 14.1 21.1

71 45.9 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: 16.501 ng

RT: 9.17 min Scan# 1002

Delta R.T. 0.35 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Tgt Ion: 70 Resp: 35263

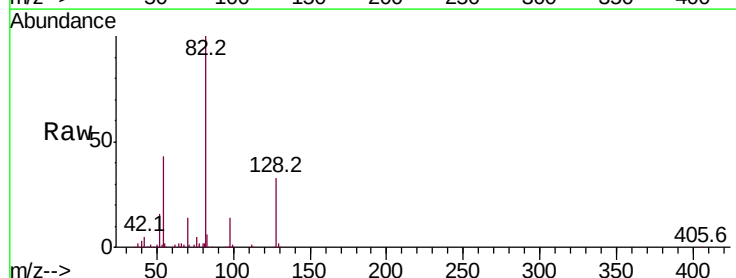
Ion Ratio Lower Upper

70 100

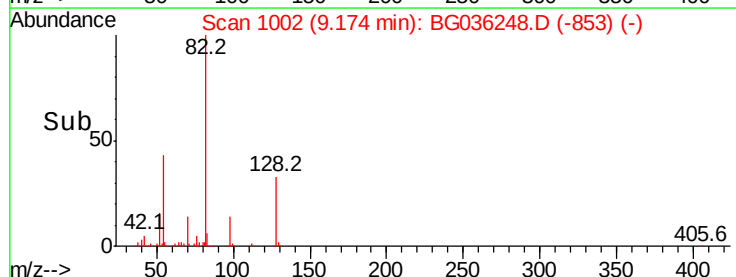
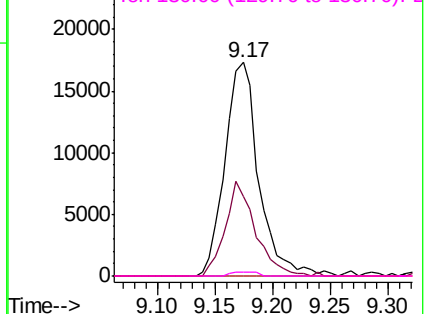
42 37.3 49.1 73.7#

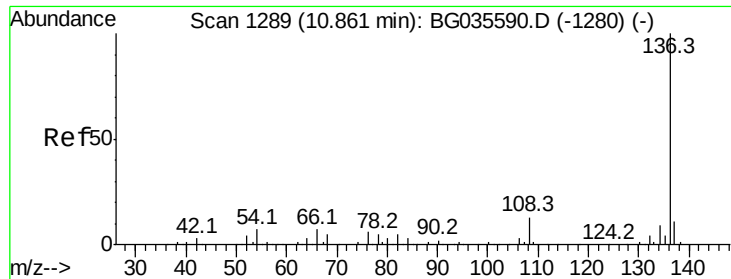
101 0.0 8.5 12.7#

130 1.9 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

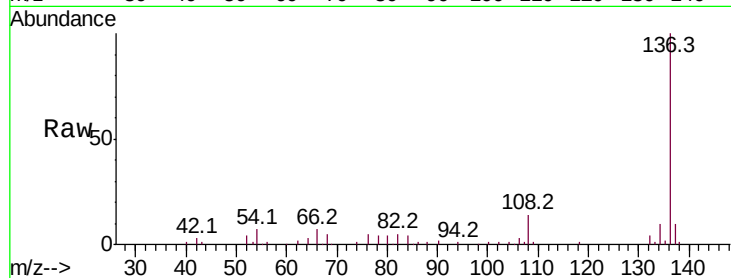




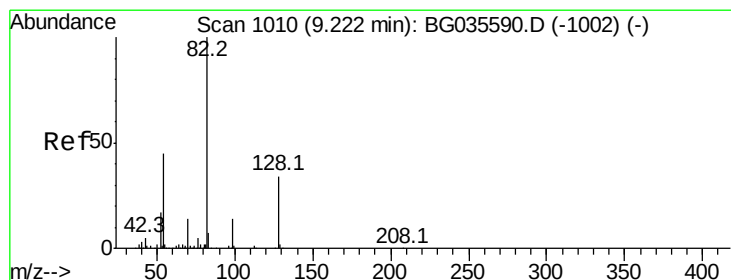
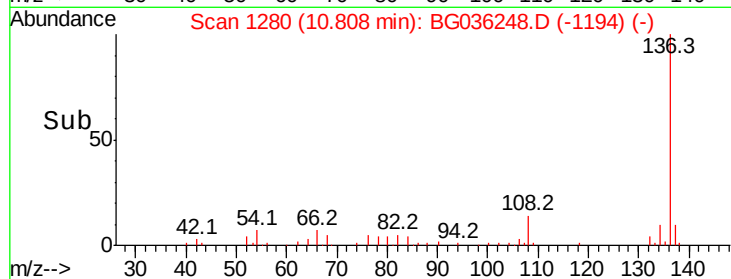
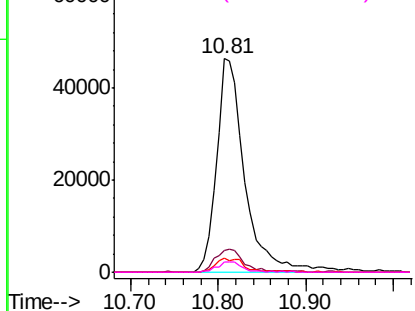
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.81 min Scan# 1280  
Delta R.T. -0.02 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 103211 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 9.2   | 13.8   |
| 54       | 6.6   | 10.3  | 15.5   |
| 68       | 5.0   | 4.5   | 6.7    |

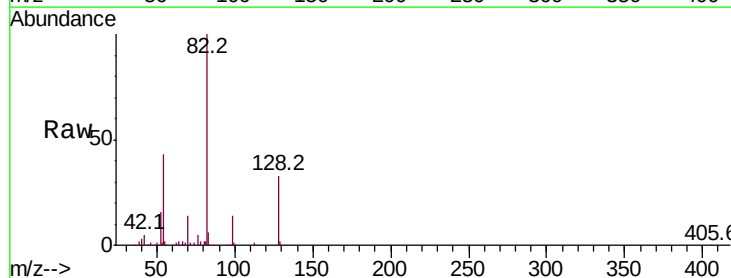


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

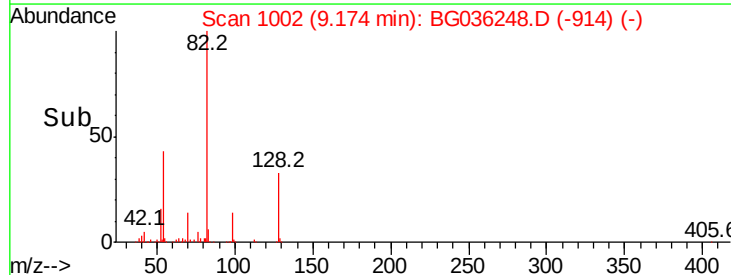
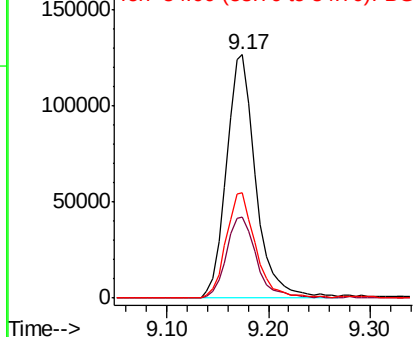


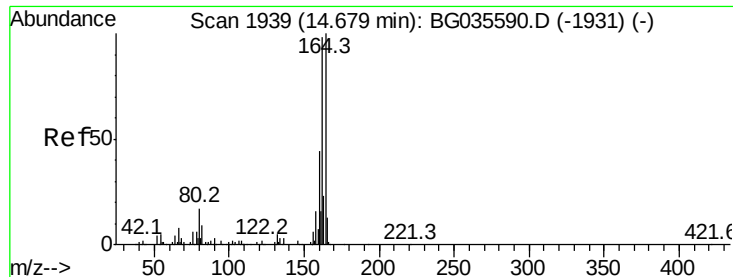
#23  
Nitrobenzene-d5  
Concen: 102.693 ng  
RT: 9.17 min Scan# 1002  
Delta R.T. -0.01 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 253719 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 33.1  | 29.7  | 44.5   |
| 54       | 43.3  | 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: 14.63 min Scan# 1931

Delta R.T. -0.02 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Instrument :

BNA\_G

ClientSampled :

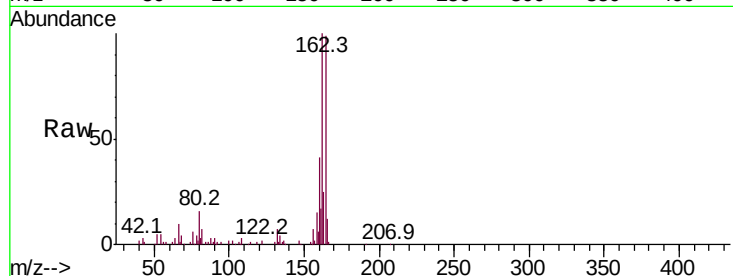
Tot Ion:164 Resp: 74697

Ion Ratio Lower Upper

164 100

162 101.4 78.8 118.2

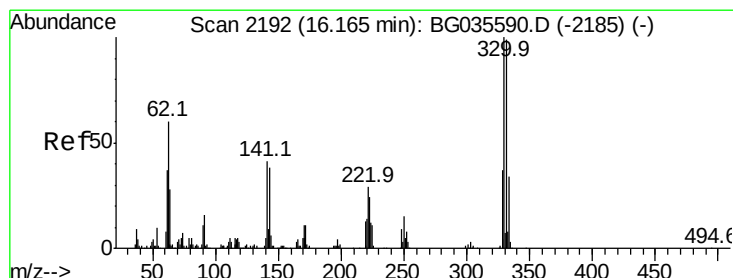
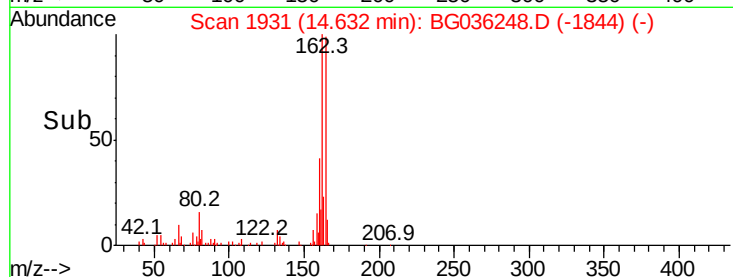
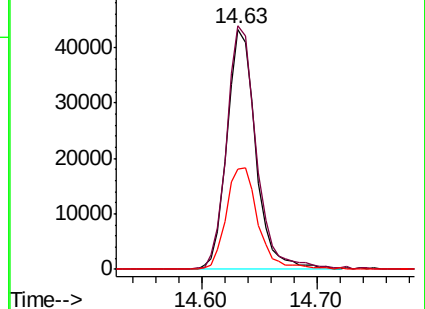
160 41.6 35.4 53.0



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: 172.458 ng

RT: 16.12 min Scan# 2185

Delta R.T. -0.02 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

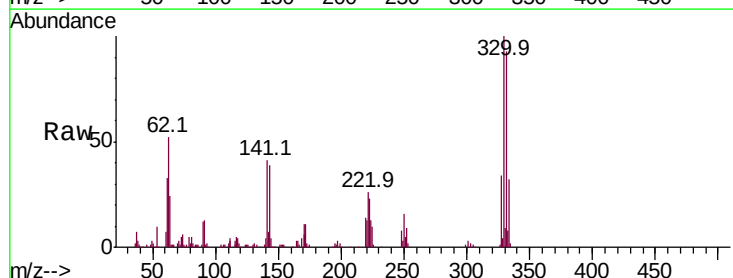
Tgt Ion:330 Resp: 169794

Ion Ratio Lower Upper

330 100

332 98.7 77.0 115.6

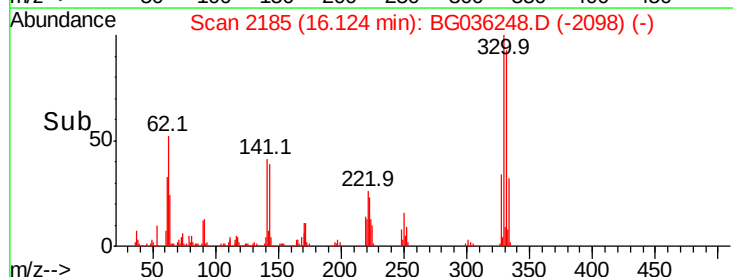
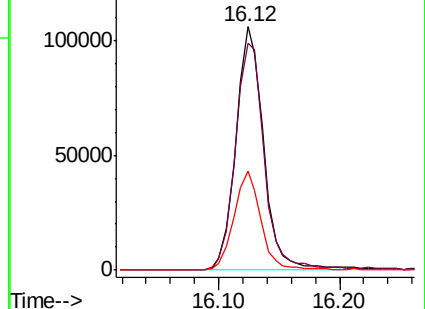
141 39.5 25.2 37.8#

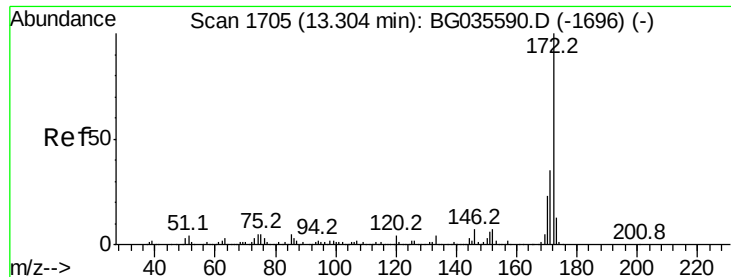


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

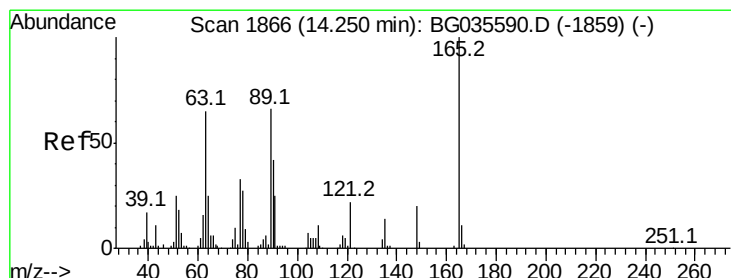
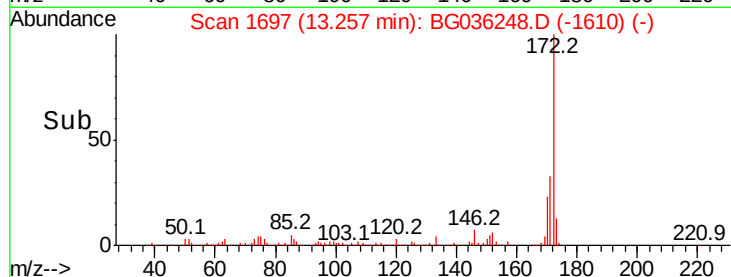
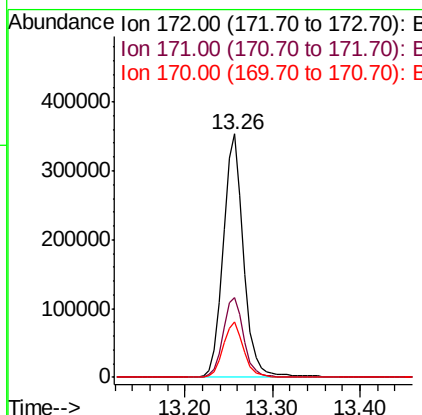
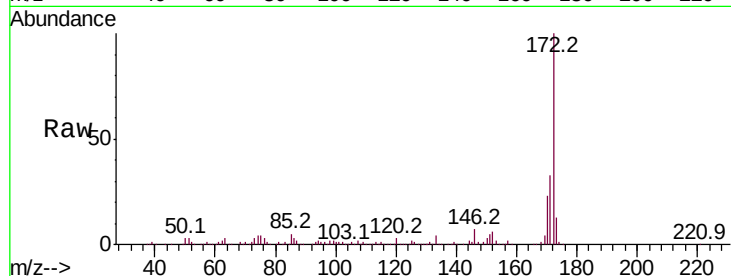




#44  
2-Fluorobiphenyl  
Concen: 101.842 ng  
RT: 13.26 min Scan# 1697  
Delta R.T. -0.02 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

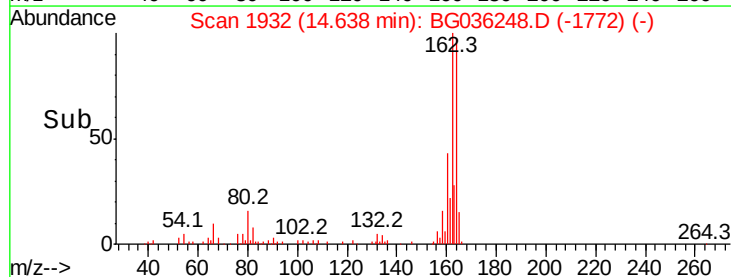
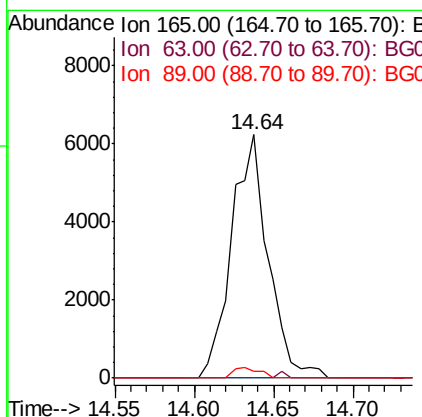
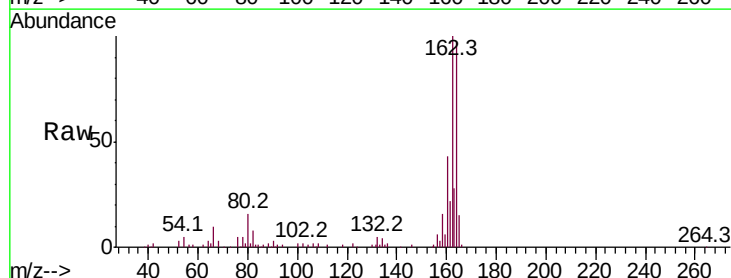
Instrument :  
BNA\_G  
ClientSampleId :

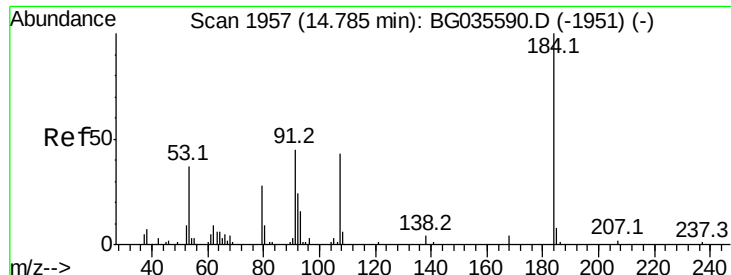
Tot Ion:172 Resp: 567818  
Ion Ratio Lower Upper  
172 100  
171 32.9 30.0 45.0  
170 22.9 19.5 29.3



#50  
2,6-Dinitrotoluene  
Concen: 7.490 ng  
RT: 14.64 min Scan# 1932  
Delta R.T. 0.41 min  
Lab File: BG036248.D  
Acq: 10 Aug 2018 00:50

Tgt Ion:165 Resp: 9982  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 2.8 49.2 73.8#

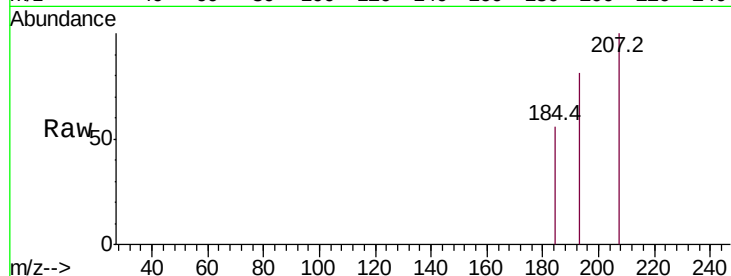




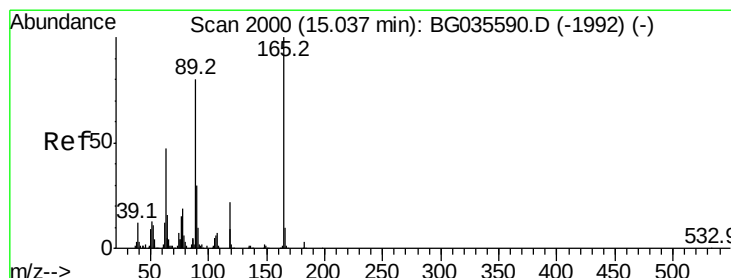
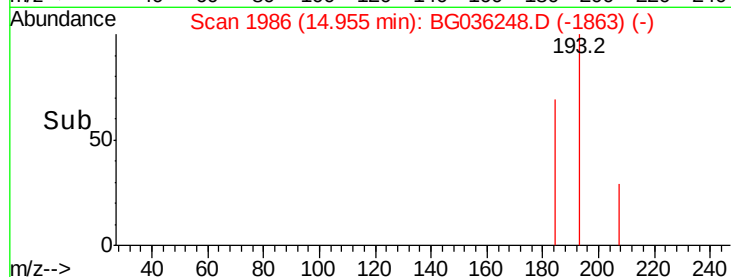
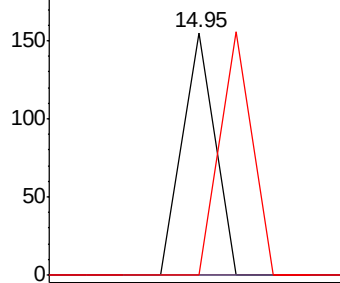
#53  
 2,4-Dinitrophenol  
 Concen: 6.656 ng  
 RT: 14.95 min Scan# 1986  
 Delta R.T. 0.19 min  
 Lab File: BG036248.D  
 Acq: 10 Aug 2018 00:50

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 184     | 100   |       |        |
| 63      | 0.0   | 59.8  | 89.8#  |
| 154     | 0.0   | 101.8 | 152.8# |

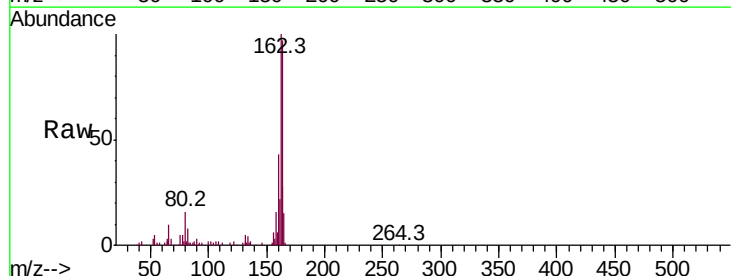


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 154.00 (153.70 to 154.70): E

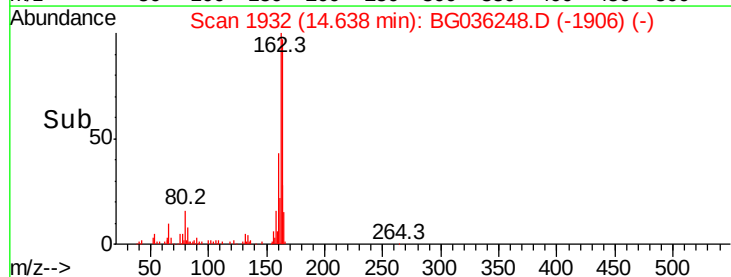
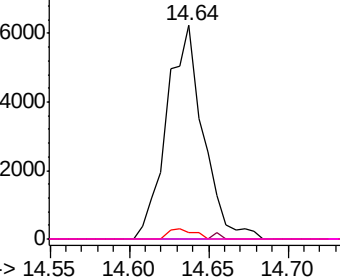


#56  
 2,4-Dinitrotoluene  
 Concen: 5.221 ng  
 RT: 14.64 min Scan# 1932  
 Delta R.T. -0.38 min  
 Lab File: BG036248.D  
 Acq: 10 Aug 2018 00:50

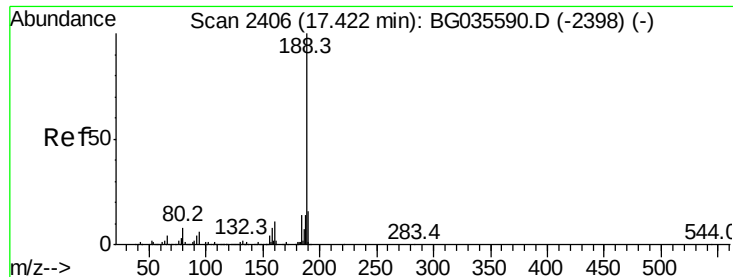
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 2.8   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG  
 Ion 182.00 (181.70 to 182.70): E







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.38 min Scan# 2399

Delta R.T. -0.01 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Instrument :

BNA\_G

ClientSampleId :

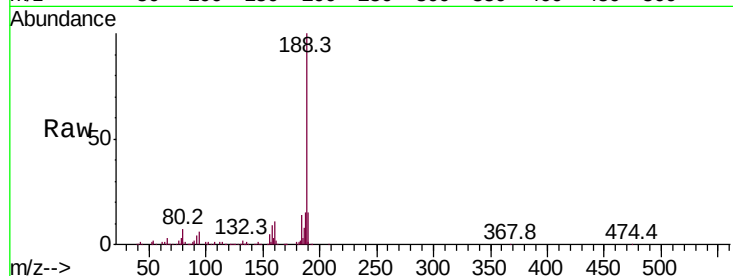
Tot Ion:188 Resp: 201755

Ion Ratio Lower Upper

188 100

94 6.0 6.9 10.3#

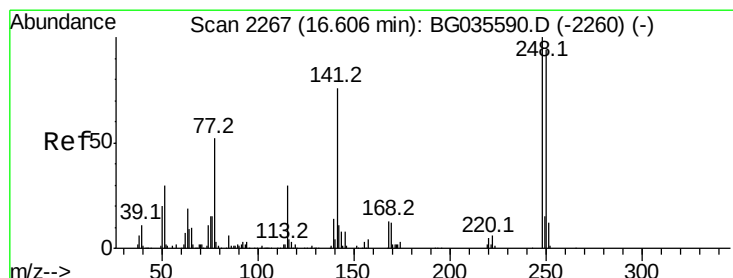
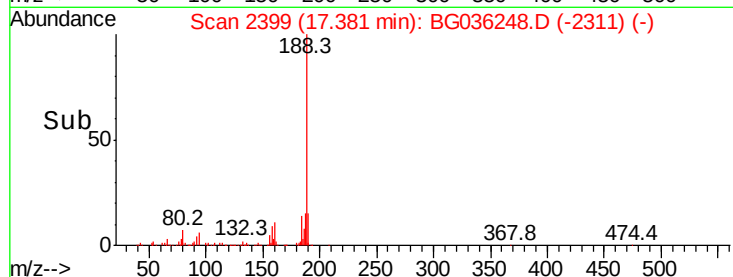
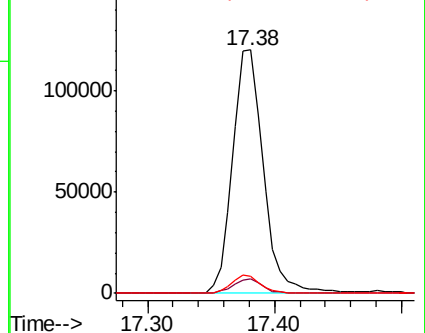
80 6.8 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0



#66

4-Bromophenyl-phenylether

Concen: 5.891 ng

RT: 16.13 min Scan# 2186

Delta R.T. -0.45 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

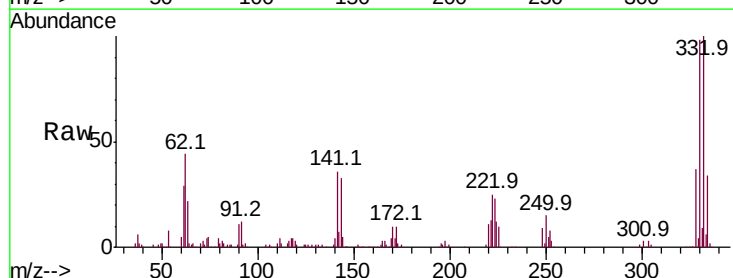
Tgt Ion:248 Resp: 13789

Ion Ratio Lower Upper

248 100

250 159.3 77.1 115.7#

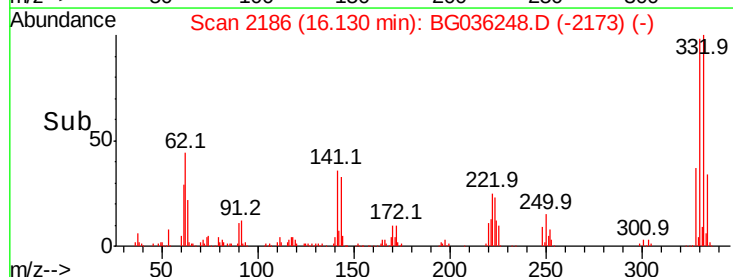
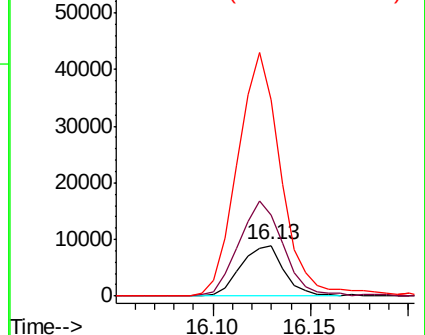
141 386.9 50.8 76.2#

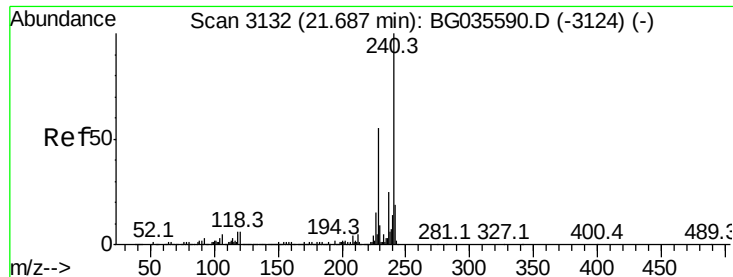


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.64 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Instrument :

BNA\_G

ClientSampled :

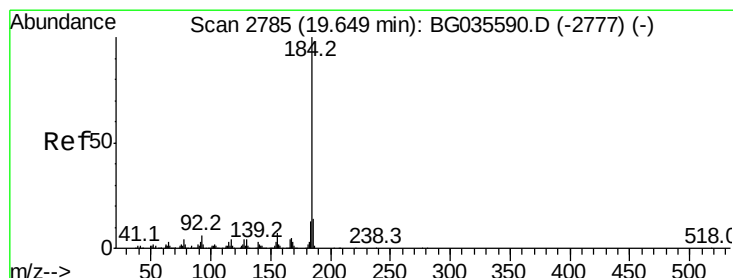
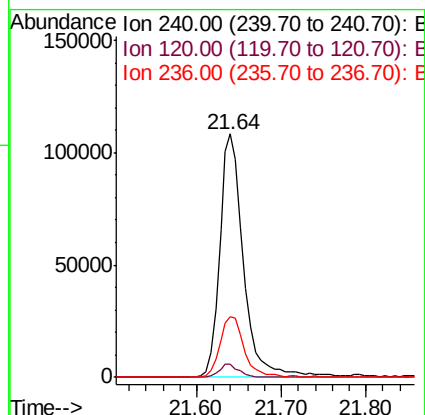
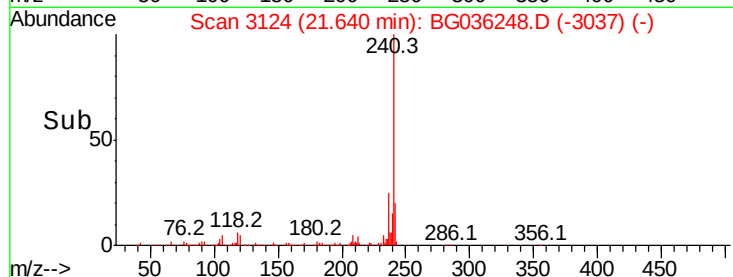
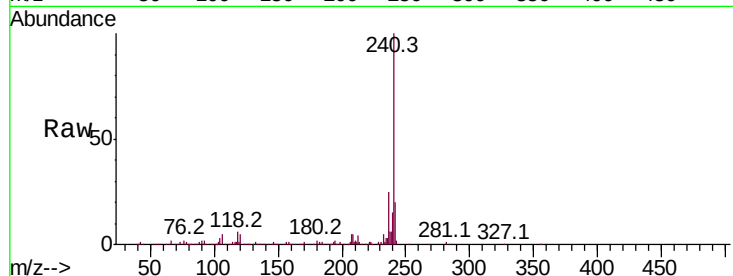
Tot Ion:240 Resp: 211918

Ion Ratio Lower Upper

240 100

120 5.3 6.8 10.2#

236 25.1 20.9 31.3



#76

Benzidine

Concen: 3.264 ng

RT: 19.98 min Scan# 2842

Delta R.T. 0.36 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

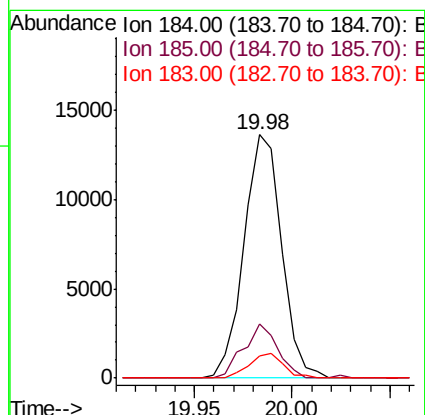
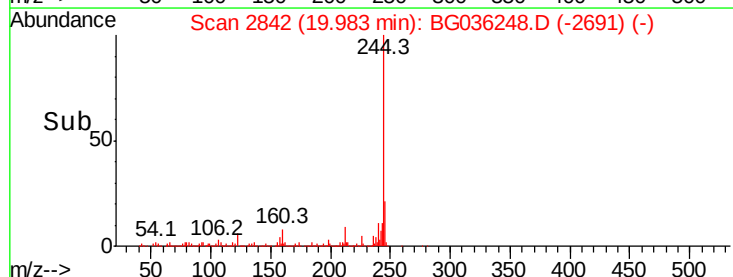
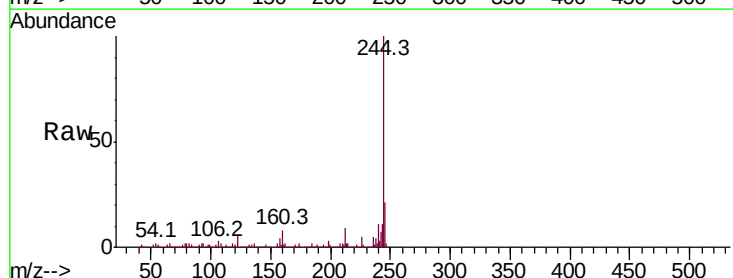
Tgt Ion:184 Resp: 18186

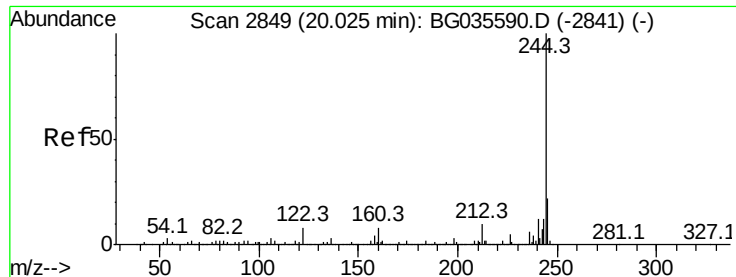
Ion Ratio Lower Upper

184 100

185 22.4 11.1 16.7#

183 9.1 10.6 16.0#





#78

Terphenyl-d14

Concen: 107.804 ng

RT: 19.98 min Scan# 2842

Delta R.T. -0.02 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

Instrument :

BNA\_G

ClientSampleId :

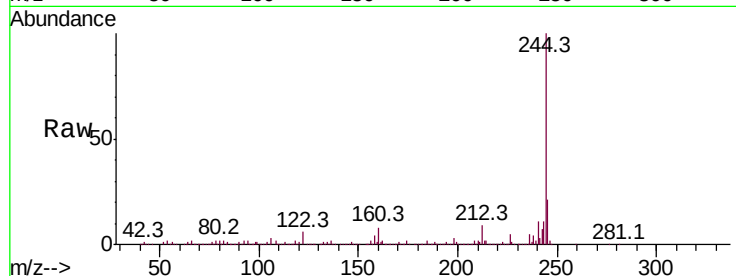
Tot Ion:244 Resp: 1036407

Ion Ratio Lower Upper

244 100

212 8.9 5.8 8.8#

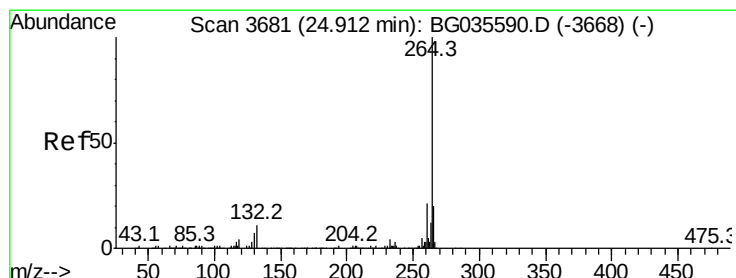
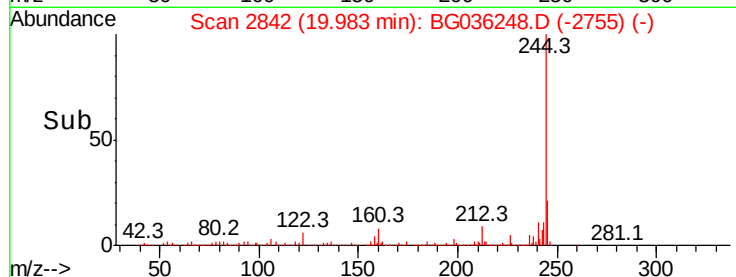
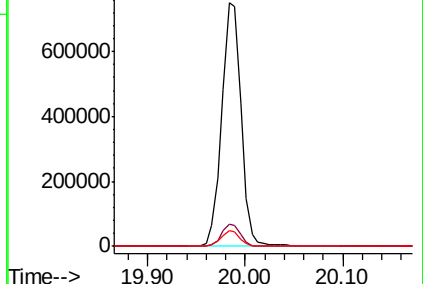
122 6.4 7.0 10.4#



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: 24.83 min Scan# 3667

Delta R.T. -0.03 min

Lab File: BG036248.D

Acq: 10 Aug 2018 00:50

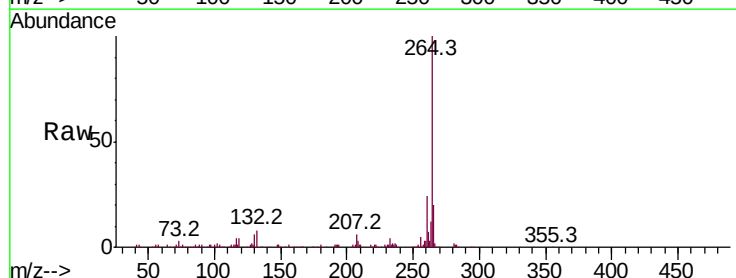
Tgt Ion:264 Resp: 200727

Ion Ratio Lower Upper

264 100

260 24.2 17.4 26.0

265 19.8 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

