

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082718\  
 Data File : BG036441.D  
 Acq On : 27 Aug 2018 21:16  
 Operator : JU/SJ  
 Sample : J4583-05  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 28 03:29:18 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 23 12:07:02 2018  
 Response via : Initial Calibration

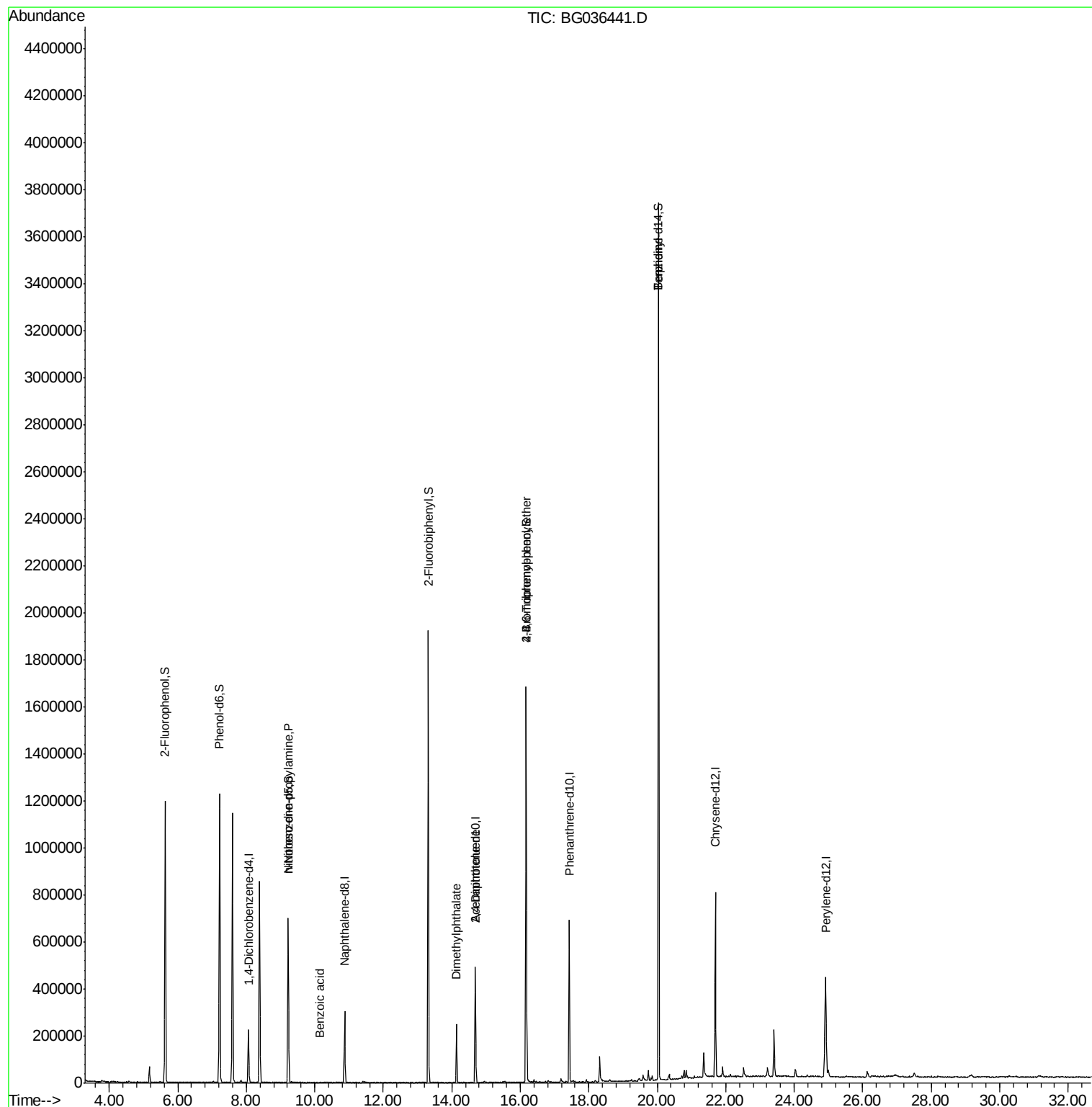
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 63815    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 261901   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.69 | 164  | 171176   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.43 | 188  | 426535   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.70 | 240  | 464918   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.91 | 264  | 467311   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 499287   | 124.11 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 707513   | 122.84 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 425767   | 88.20  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 306075   | 149.85 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.32 | 172  | 1008366  | 84.11  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.04 | 244  | 1697014  | 85.32  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 56881    | 13.214 | ng    | # 70     |
| 32) Benzoic acid               | 10.15 | 122  | 58       | 4.498  | ng    | # 1      |
| 49) Dimethylphthalate          | 14.13 | 163  | 166695   | 11.926 | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 14.69 | 165  | 20965    | 5.593  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 21168    | 4.239  | ng    | # 1      |
| 76) Benzidine                  | 20.04 | 184  | 29981    | 2.021  | ng    | # 94     |

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

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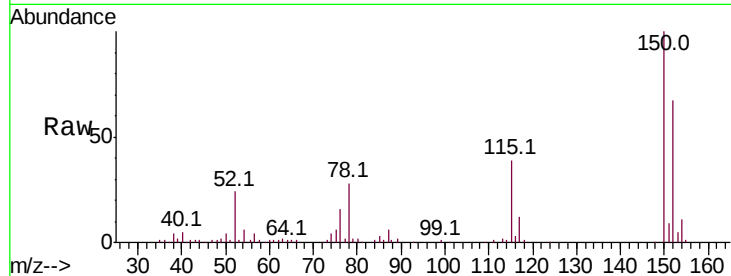


#1

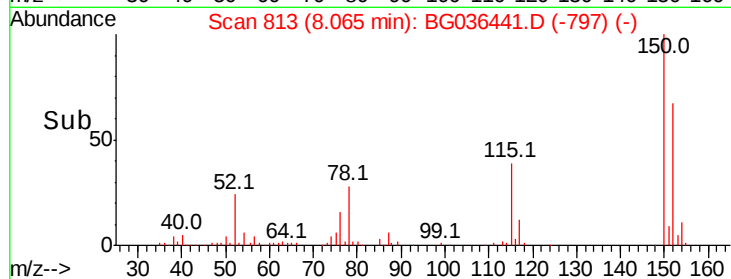
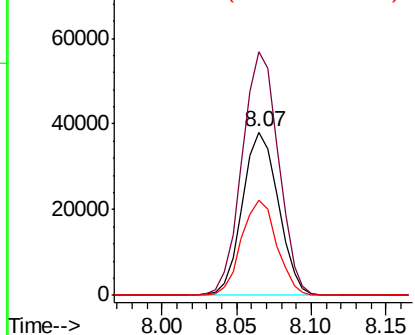
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.07 min Scan# 813  
 Delta R.T. -0.01 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.1 | 119.5 | 179.3 |
| 115     | 58.3  | 44.5  | 66.7  |



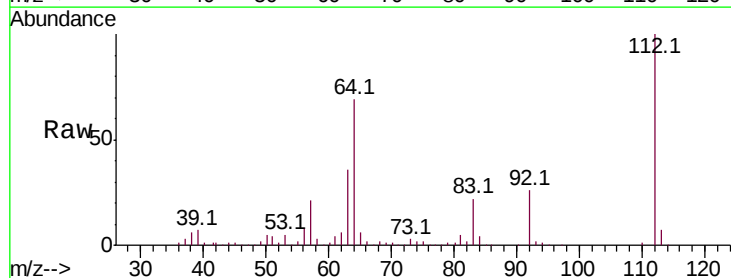
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



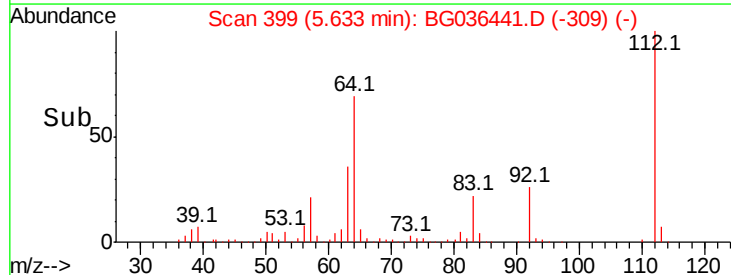
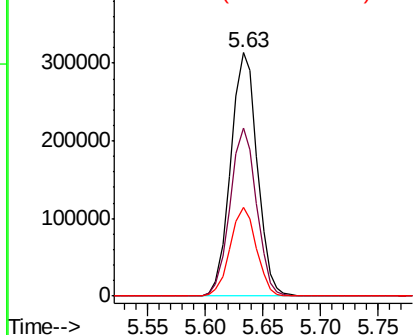
#5

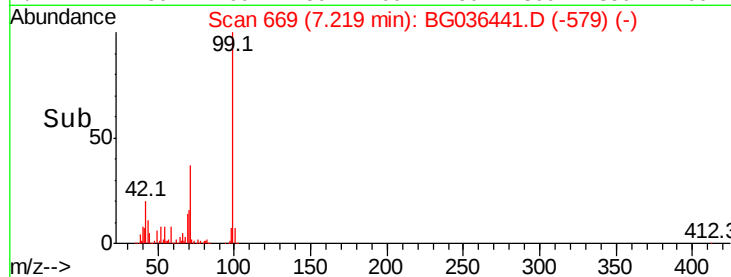
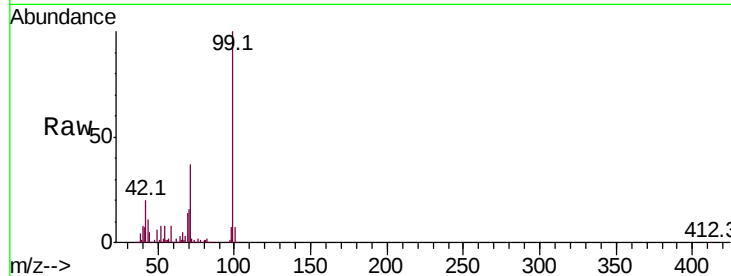
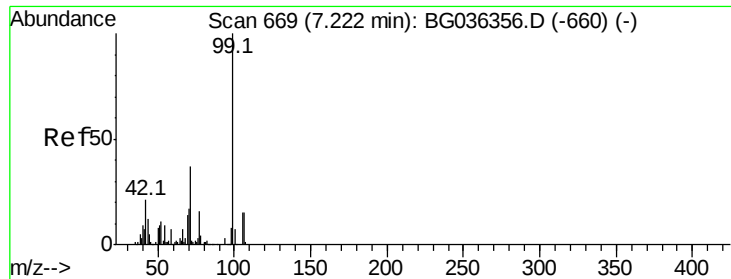
2-Fluorophenol  
 Concen: 124.111 ng  
 RT: 5.63 min Scan# 399  
 Delta R.T. -0.00 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.9  | 57.2  | 85.8  |
| 63      | 36.4  | 30.8  | 46.2  |



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





#7

Phenol-d6

Concen: 122.837 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampled :

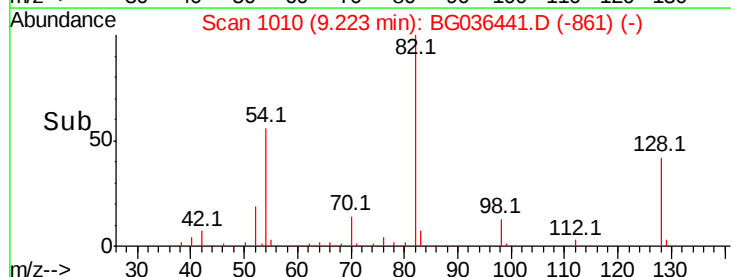
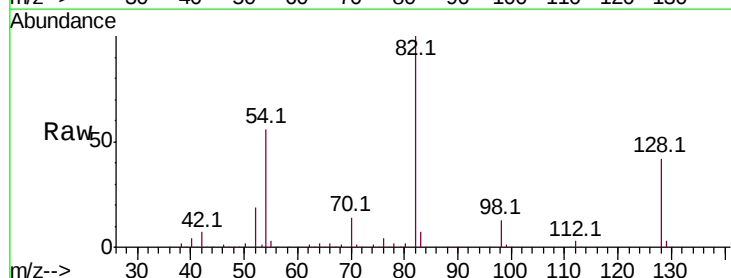
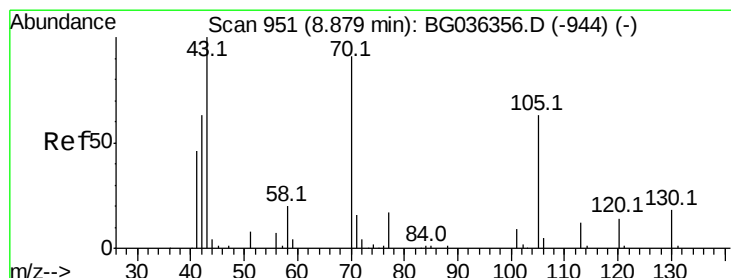
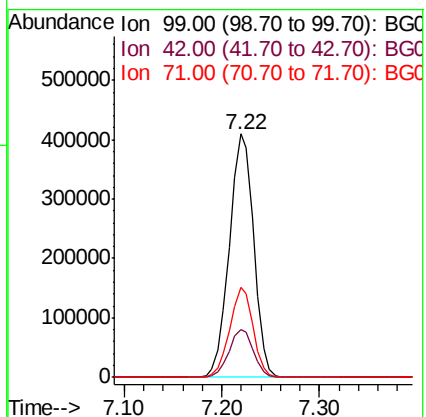
Tot Ion: 99 Resp: 707513

Ion Ratio Lower Upper

99 100

42 19.6 16.5 24.7

71 37.0 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.214 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.34 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Tgt Ion: 70 Resp: 56881

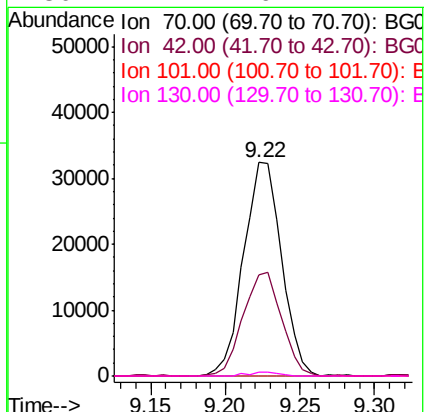
Ion Ratio Lower Upper

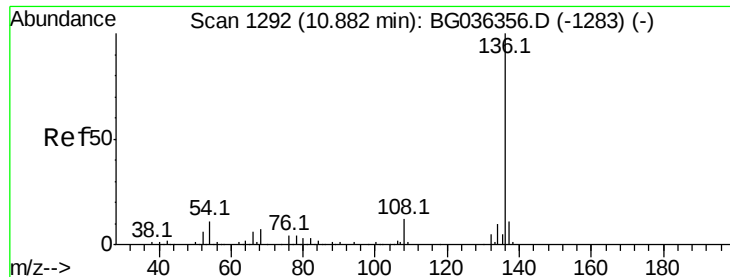
70 100

42 47.4 56.2 84.4#

101 0.0 7.8 11.6#

130 1.7 16.2 24.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.87 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 261901

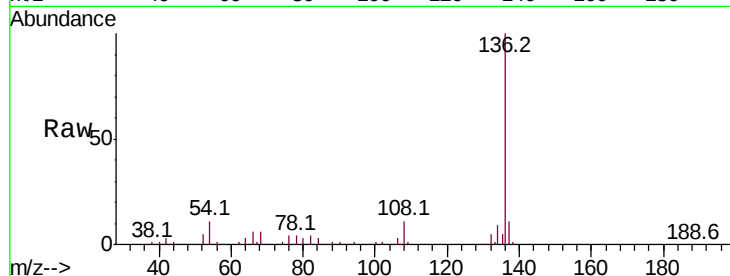
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 11.1 9.2 13.8

68 6.4 5.8 8.6

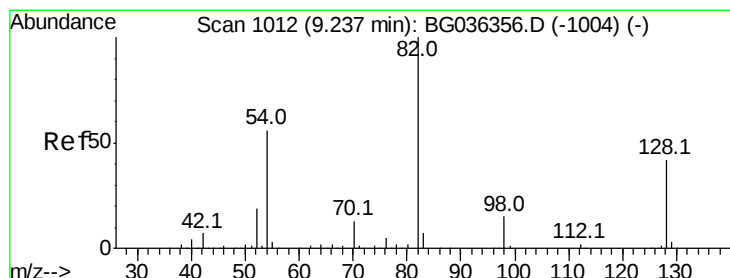
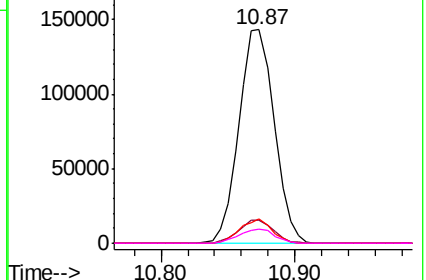
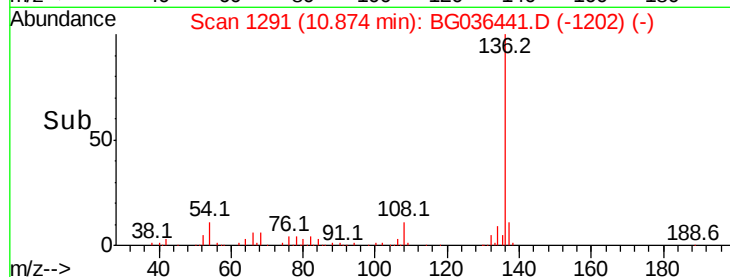


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.204 ng

RT: 9.23 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

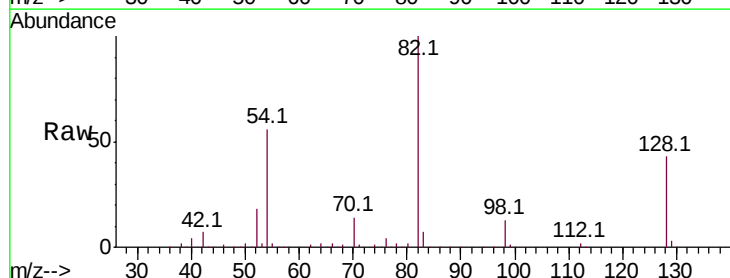
Tgt Ion: 82 Resp: 425767

Ion Ratio Lower Upper

82 100

128 43.3 33.3 49.9

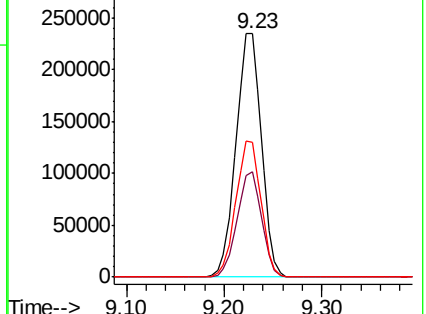
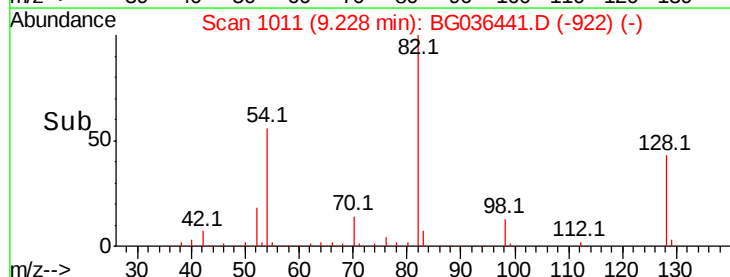
54 55.5 45.1 67.7

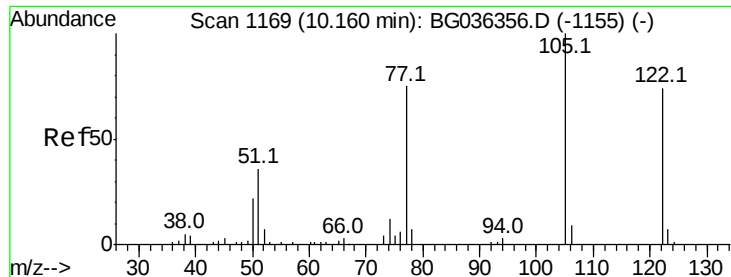


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#32

Benzoic acid

Concen: 4.498 ng

RT: 10.15 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampleId :

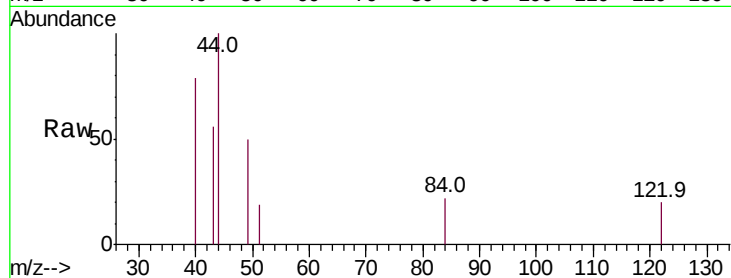
Tot Ion:122 Resp: 58

Ion Ratio Lower Upper

122 100

105 0.0 108.1 148.1#

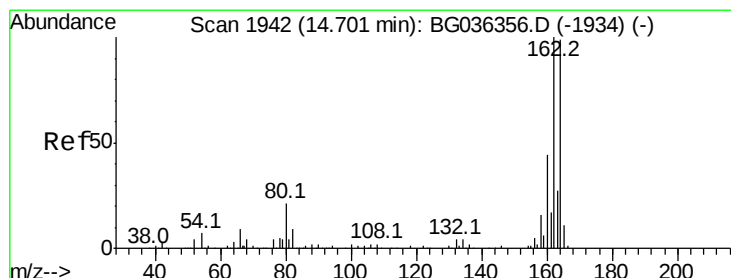
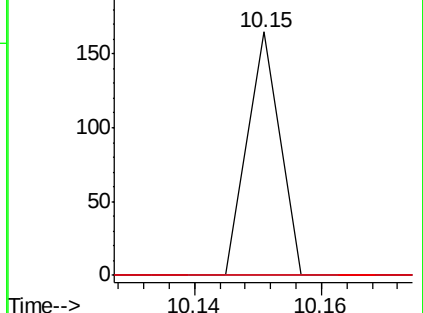
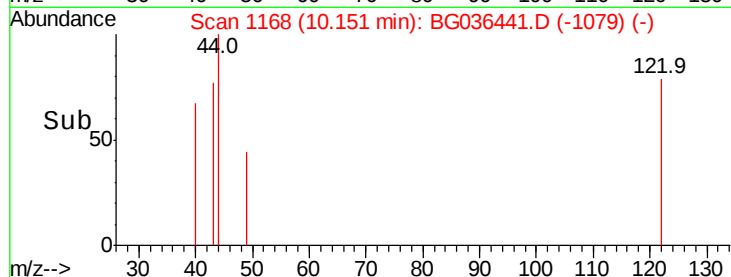
77 0.0 76.3 116.3#



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: 20.000 ng

RT: 14.69 min Scan# 1940

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

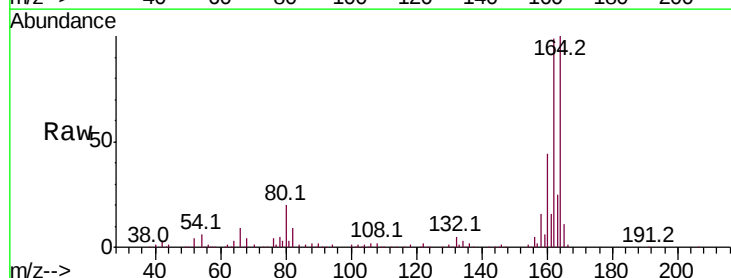
Tgt Ion:164 Resp: 171176

Ion Ratio Lower Upper

164 100

162 99.2 80.7 121.1

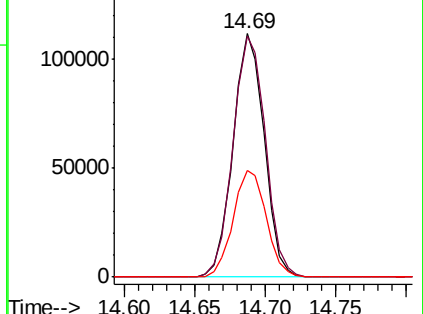
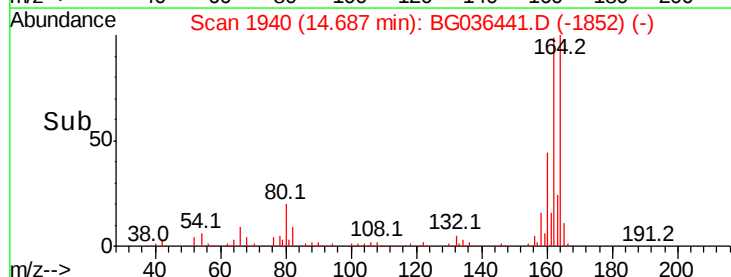
160 43.7 35.3 52.9

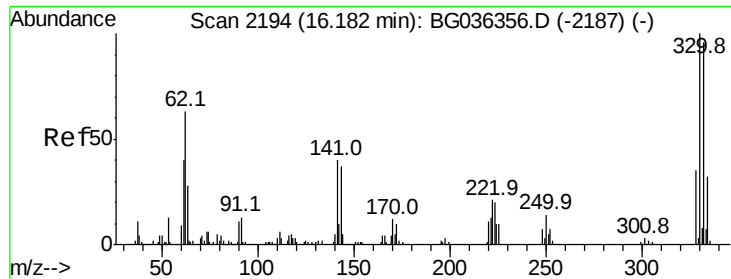


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

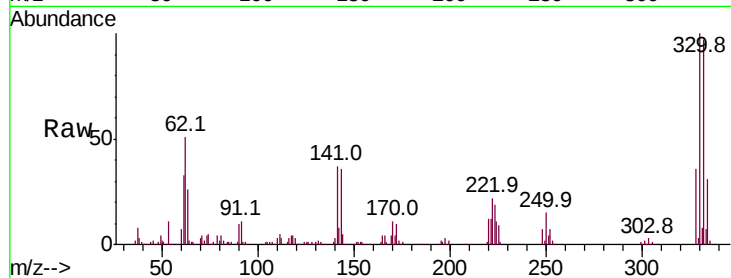




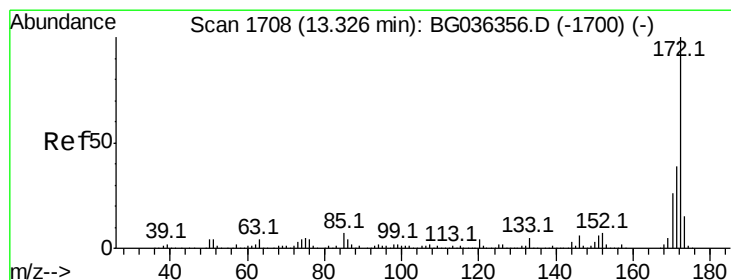
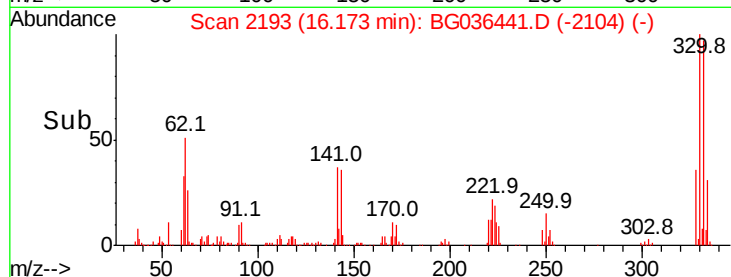
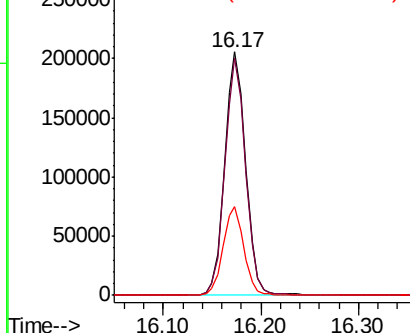
#41  
 2,4,6-Tribromophenol  
 Concen: 149.852 ng  
 RT: 16.17 min Scan# 2193  
 Delta R.T. -0.01 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 75.4  | 113.2 |
| 141     | 36.3  | 30.7  | 46.1  |

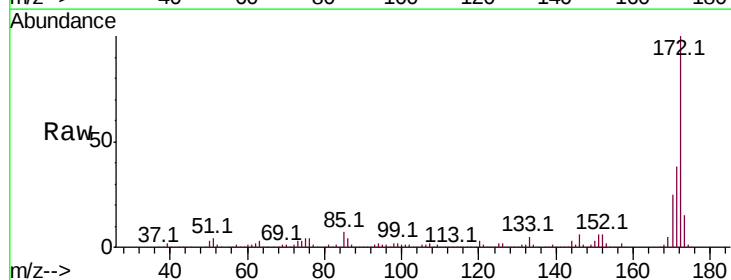


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

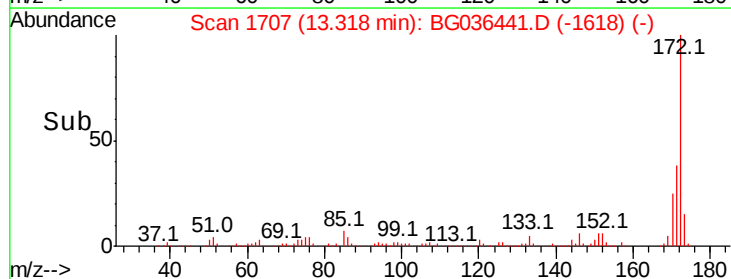
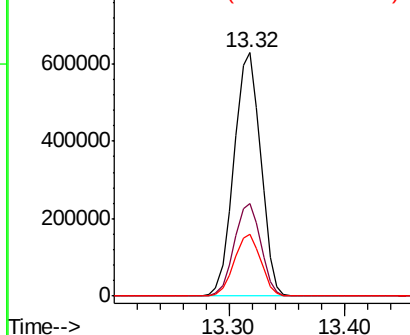


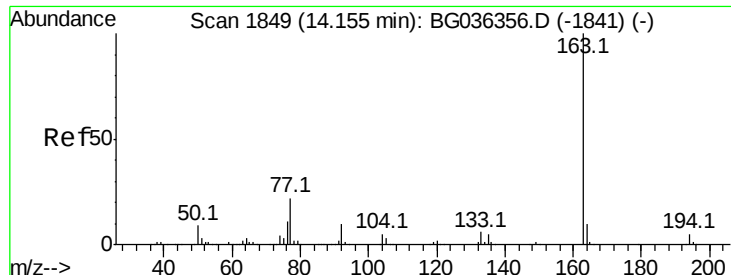
#44  
 2-Fluorobiphenyl  
 Concen: 84.110 ng  
 RT: 13.32 min Scan# 1707  
 Delta R.T. -0.01 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 31.3  | 46.9  |
| 170     | 25.3  | 21.0  | 31.6  |



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: 11.926 ng

RT: 14.13 min Scan# 1846

Delta R.T. -0.02 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampleId :

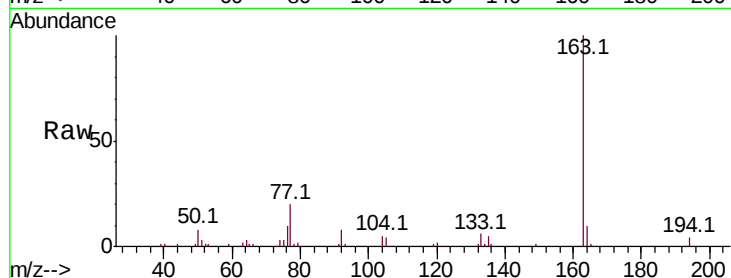
Tot Ion:163 Resp: 166695

Ion Ratio Lower Upper

163 100

194 4.3 4.0 6.0

164 10.1 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

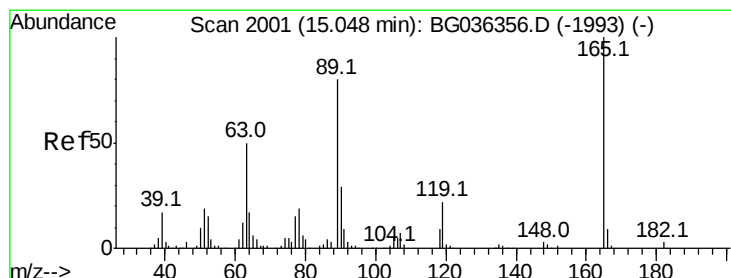
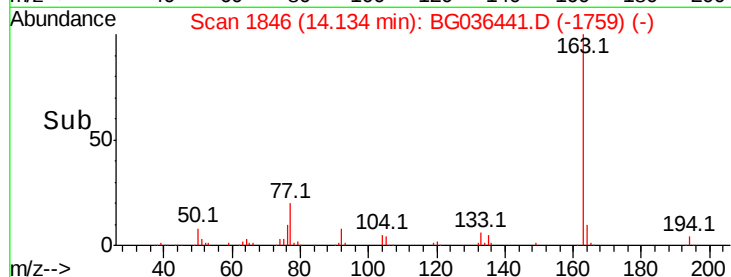
14.13

100000

50000

0

Time--> 14.05 14.10 14.15 14.20



#56

2,4-Dinitrotoluene

Concen: 5.593 ng

RT: 14.69 min Scan# 1941

Delta R.T. -0.35 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Tgt Ion:165 Resp: 20965

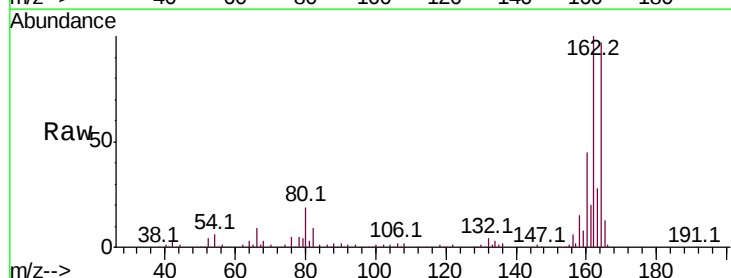
Ion Ratio Lower Upper

165 100

63 0.0 40.1 60.1#

89 2.9 63.7 95.5#

182 0.0 2.5 3.7#



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

14.69

20000

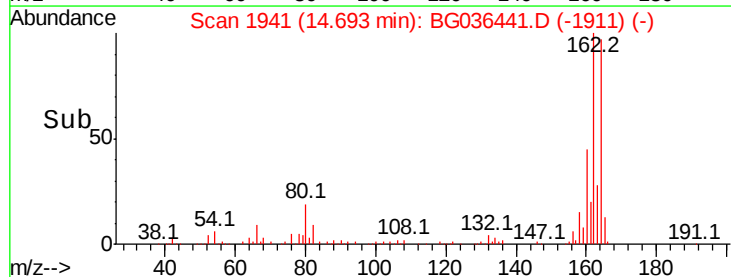
15000

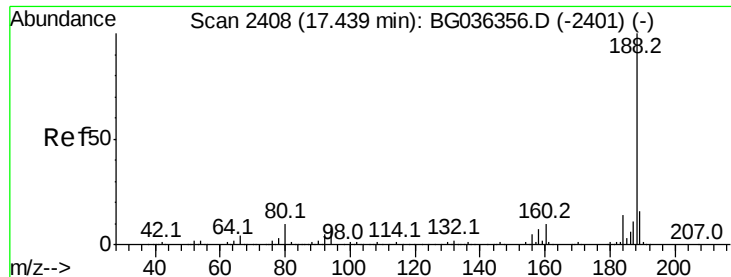
10000

5000

0

Time--> 14.65 14.70 14.75

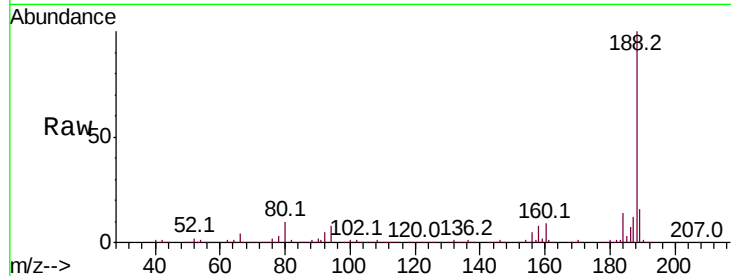




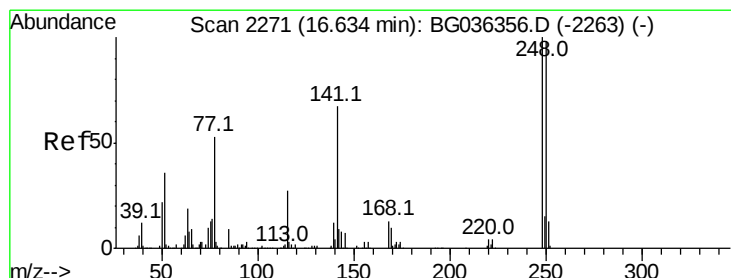
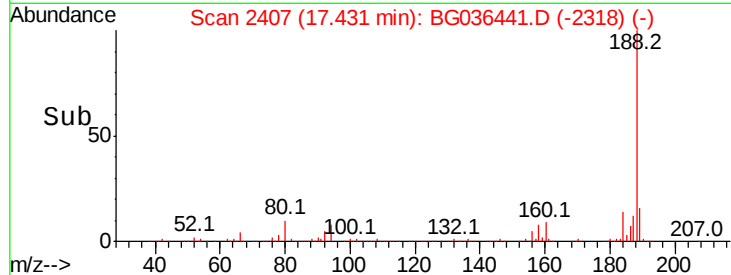
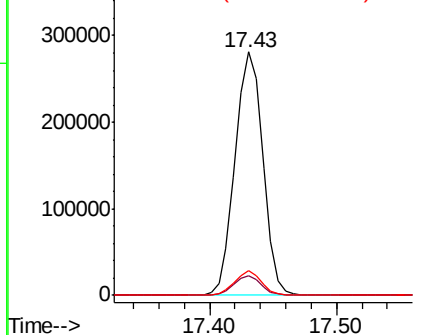
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2407  
 Delta R.T. -0.01 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:188 Resp: 426535  
 Ion Ratio Lower Upper  
 188 100  
 94 8.0 6.7 10.1  
 80 10.4 8.1 12.1

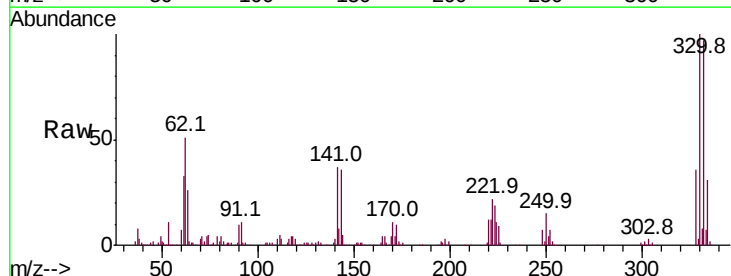


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BG  
 Ion 80.00 (79.70 to 80.70): BG

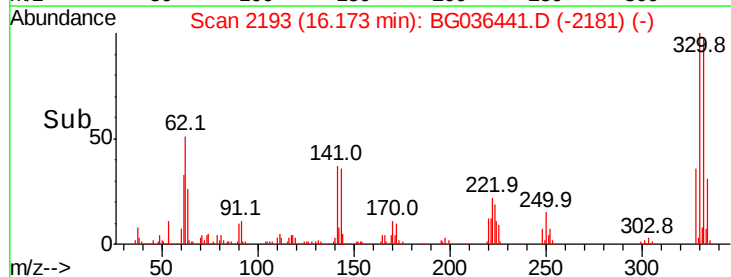
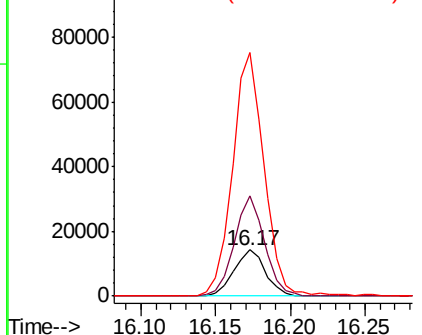


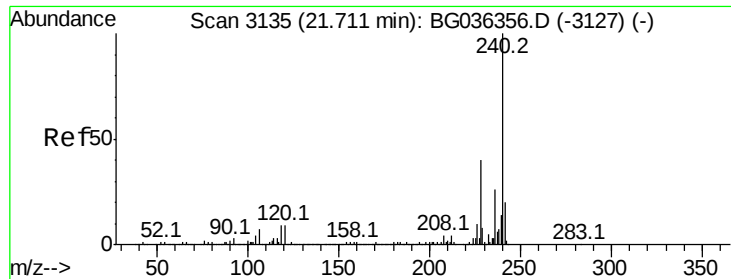
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.239 ng  
 RT: 16.17 min Scan# 2193  
 Delta R.T. -0.46 min  
 Lab File: BG036441.D  
 Acq: 27 Aug 2018 21:16

Tgt Ion:248 Resp: 21168  
 Ion Ratio Lower Upper  
 248 100  
 250 218.0 78.1 117.1#  
 141 527.9 53.7 80.5#



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: 21.70 min Scan# 3133

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampleId :

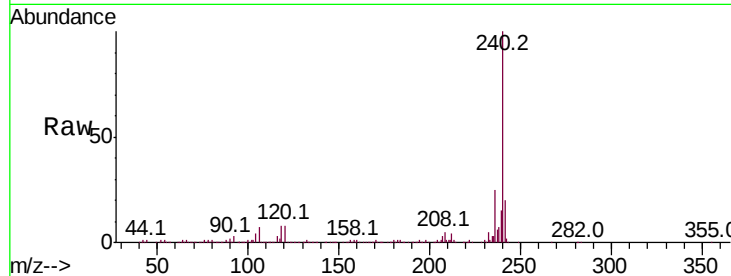
Tot Ion:240 Resp: 464918

Ion Ratio Lower Upper

240 100

120 8.3 6.9 10.3

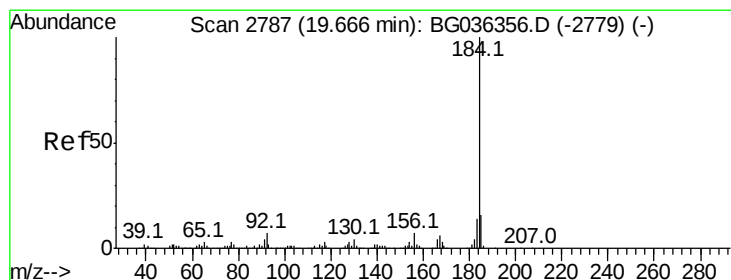
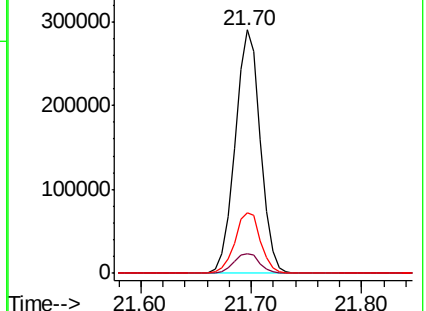
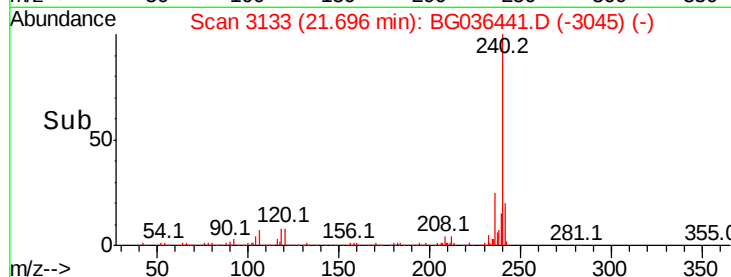
236 25.0 21.2 31.8



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: 2.021 ng

RT: 20.04 min Scan# 2851

Delta R.T. 0.37 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

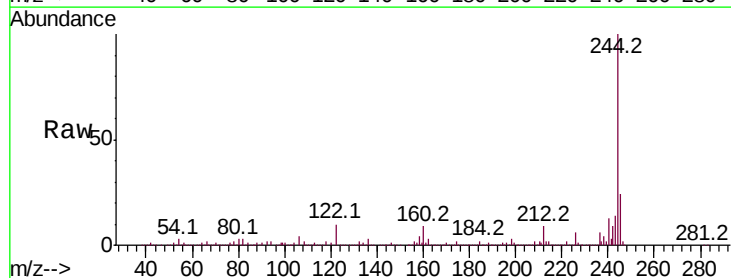
Tgt Ion:184 Resp: 29981

Ion Ratio Lower Upper

184 100

185 17.0 12.6 18.8

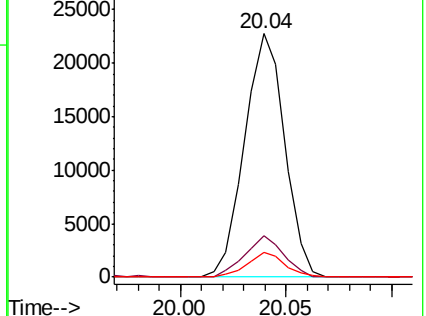
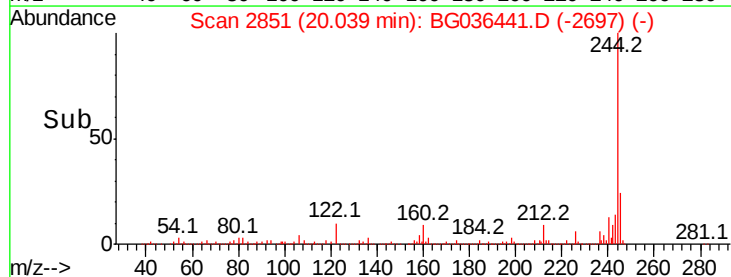
183 10.2 10.9 16.3#

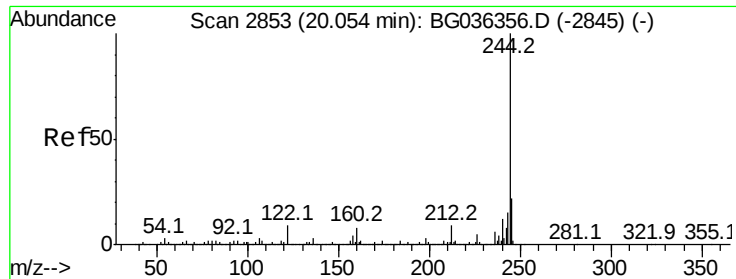


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 85.316 ng

RT: 20.04 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

Instrument :

BNA\_G

ClientSampleId :

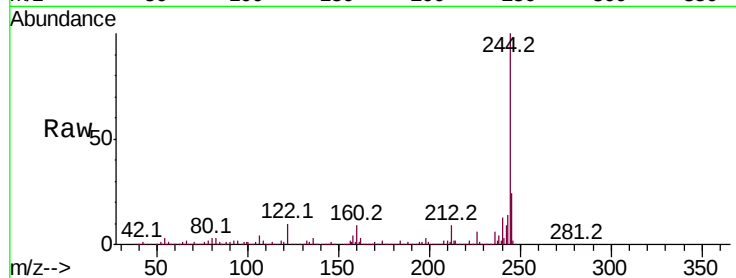
Tot Ion:244 Resp: 1697014

Ion Ratio Lower Upper

244 100

212 9.4 7.0 10.6

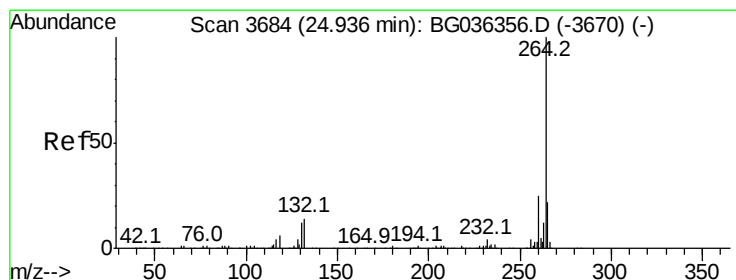
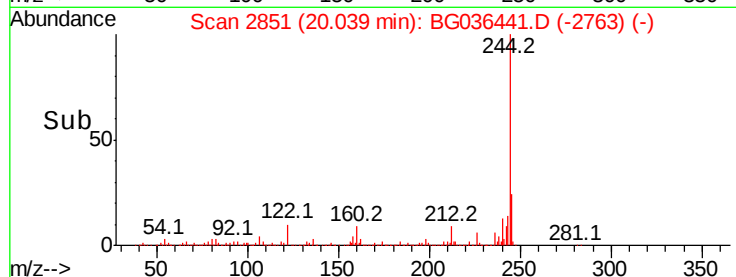
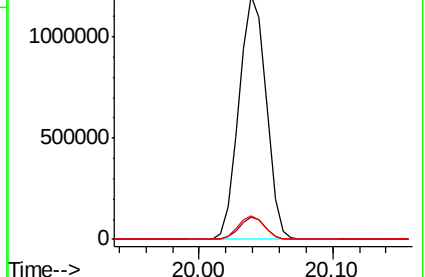
122 9.8 7.1 10.7



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: 24.91 min Scan# 3680

Delta R.T. -0.03 min

Lab File: BG036441.D

Acq: 27 Aug 2018 21:16

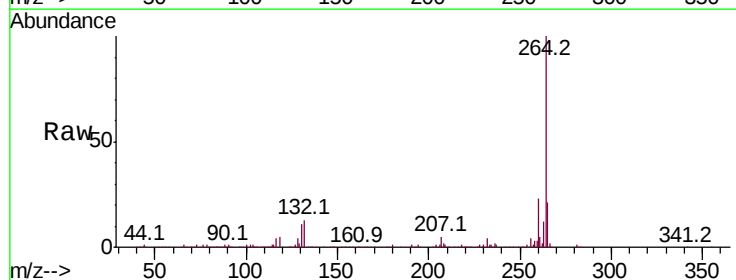
Tgt Ion:264 Resp: 467311

Ion Ratio Lower Upper

264 100

260 23.4 19.6 29.4

265 21.4 17.4 26.0



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

