

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062918\  
 Data File : BG035523.D  
 Acq On : 30 Jun 2018 2:34  
 Operator : JU/SJ  
 Sample : J3773-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 02 00:55:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 2018  
 Response via : Initial Calibration

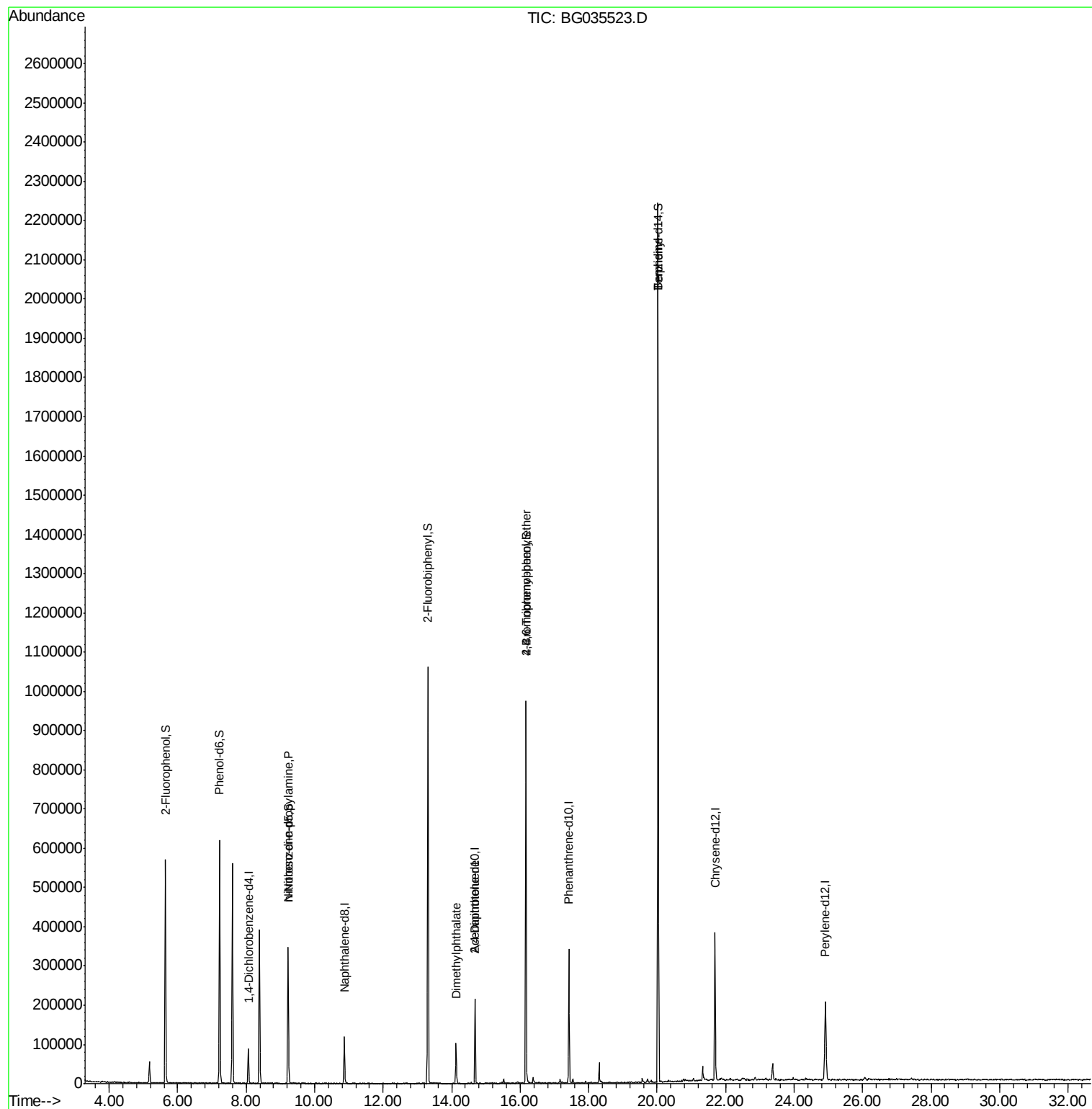
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 26277    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.87 | 136  | 99774    | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.68 | 164  | 77134    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.42 | 188  | 213543   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 21.69 | 240  | 237200   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 24.91 | 264  | 226263   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 241605   | 155.17 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 369491   | 160.78 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 232957   | 110.99 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 182585   | 184.91 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 568039   | 95.74  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.03 | 244  | 1097405  | 96.91  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 32397    | 16.593 | ng    | # 70     |
| 49) Dimethylphthalate          | 14.13 | 163  | 67262    | 10.000 | ng    | # 96     |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 10752    | 6.596  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 14438    | 5.614  | ng    | # 1      |
| 76) Benzidine                  | 20.03 | 184  | 18228    | 2.066  | ng    | # 85     |

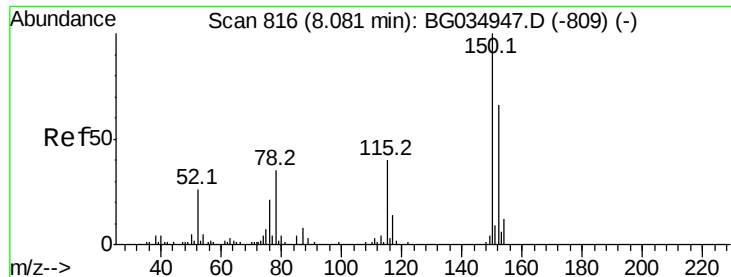
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
ClientSampleId :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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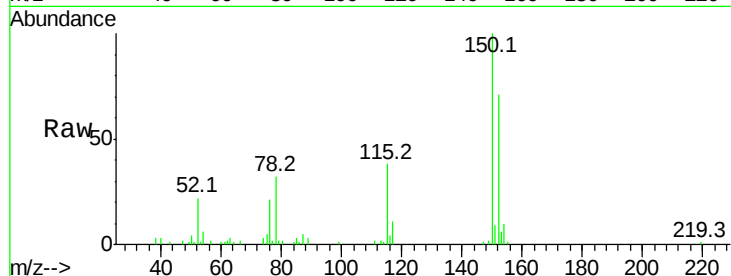


#1

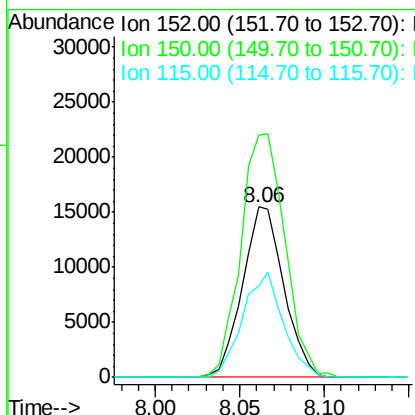
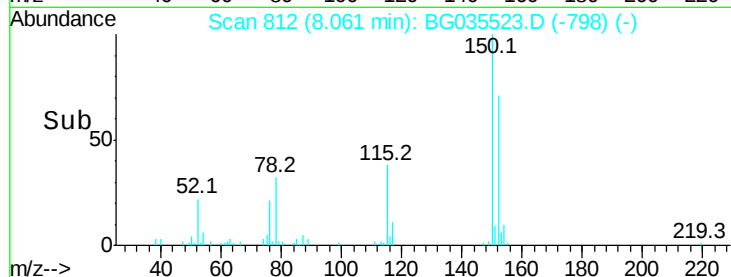
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 812  
Delta R.T. -0.02 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.8 | 126.6 | 189.8 |
| 115     | 53.4  | 53.0  | 79.4  |



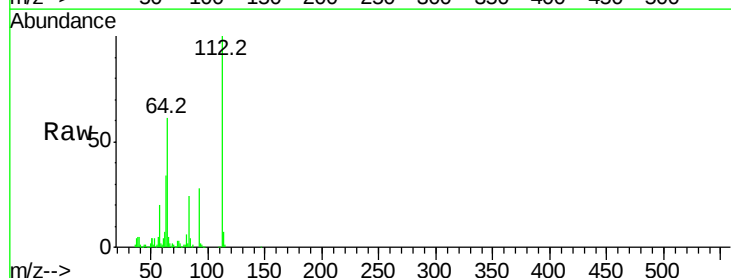
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



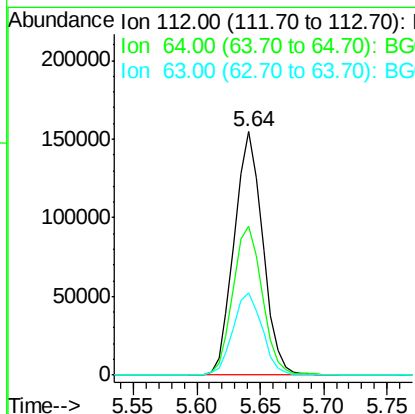
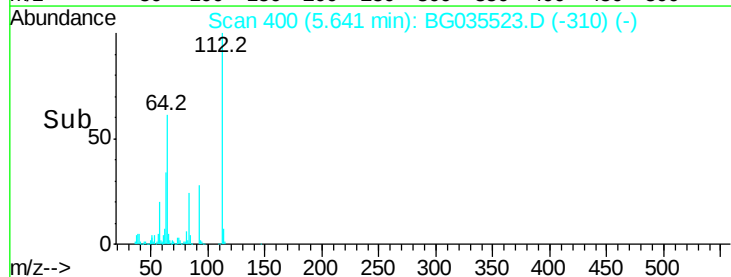
#5

2-Fluorophenol  
Concen: 155.168 ng  
RT: 5.64 min Scan# 400  
Delta R.T. -0.00 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.4  | 56.3  | 84.5  |
| 63      | 34.0  | 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: 160.780 ng

RT: 7.23 min Scan# 670

Delta R.T. 0.00 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

Instrument :

BNA\_G

ClientSampleId :

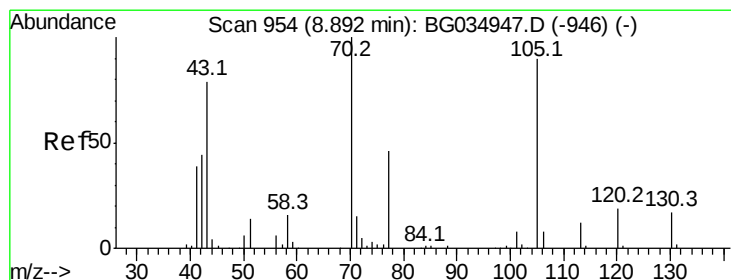
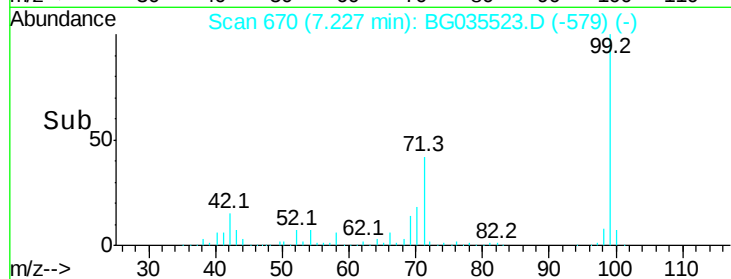
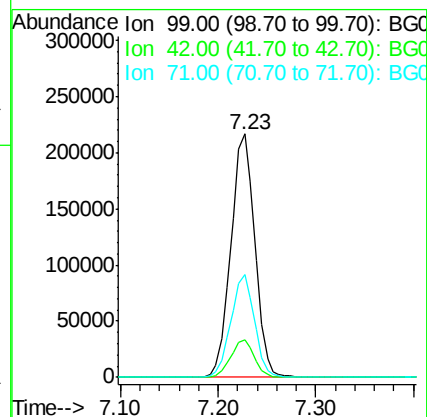
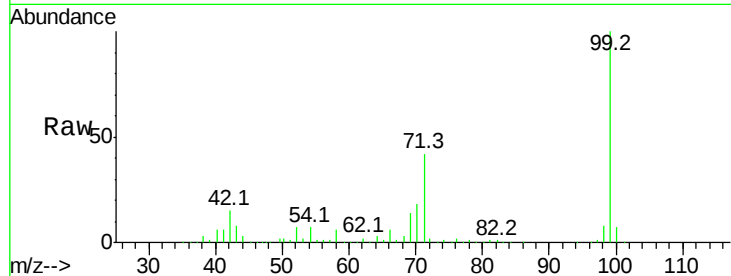
Tot Ion: 99 Resp: 369491

Ion Ratio Lower Upper

99 100

42 15.2 14.1 21.1

71 42.0 26.1 39.1#



#19

n-Nitroso-di-n-propylamine

Concen: 16.593 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.34 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

Tgt Ion: 70 Resp: 32397

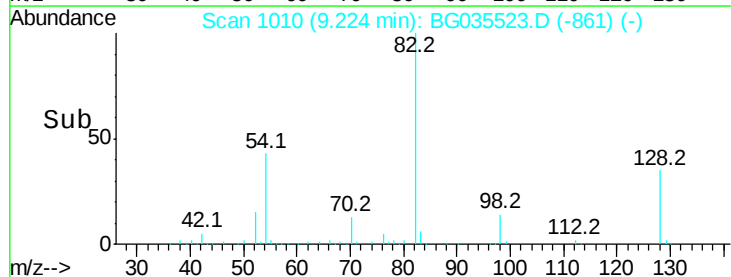
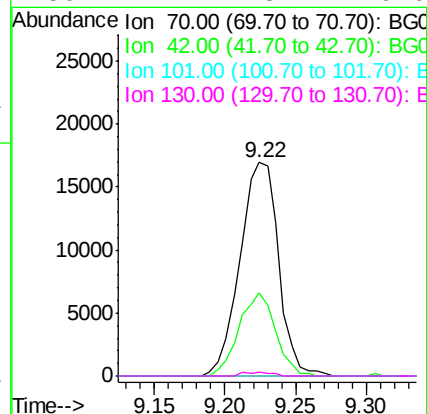
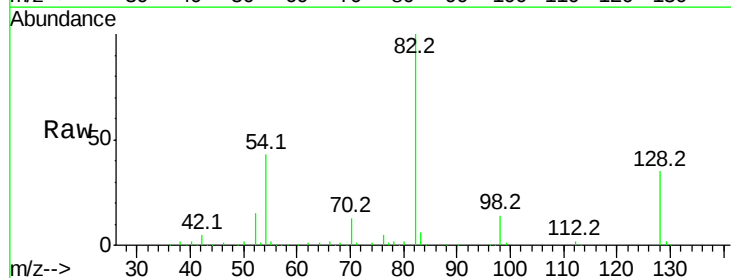
Ion Ratio Lower Upper

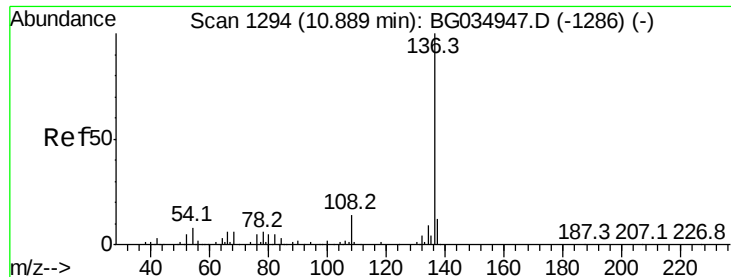
70 100

42 38.9 49.1 73.7#

101 0.0 8.5 12.7#

130 2.1 13.4 20.0#

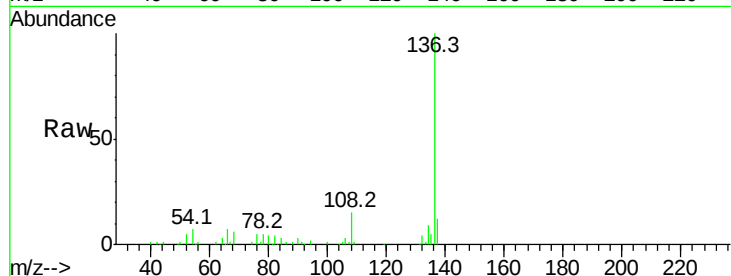




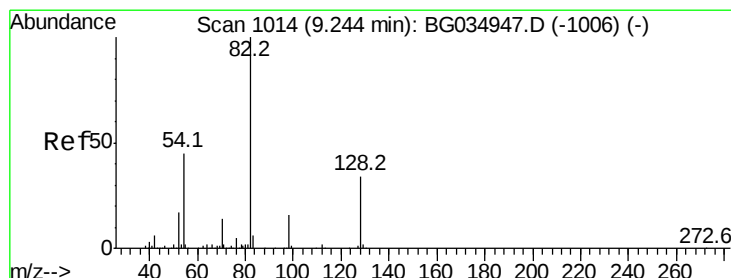
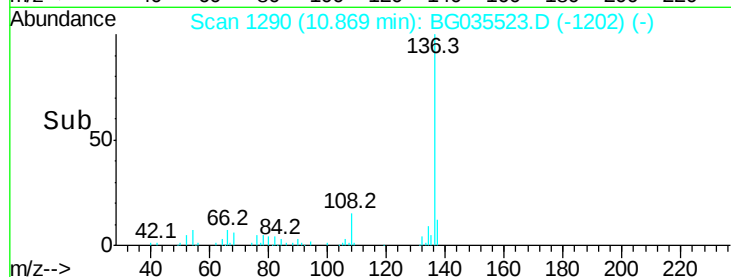
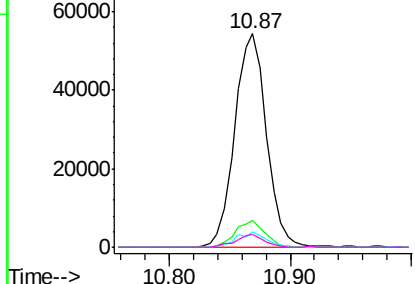
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 99774     |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 12.5  | 9.2 13.8  |
| 54          | 6.9   | 10.3 15.5 |
| 68          | 6.3   | 4.5 6.7   |

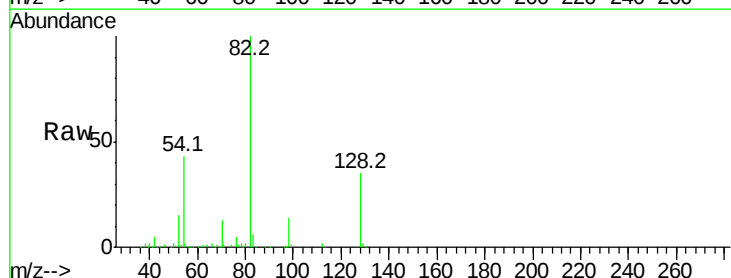


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

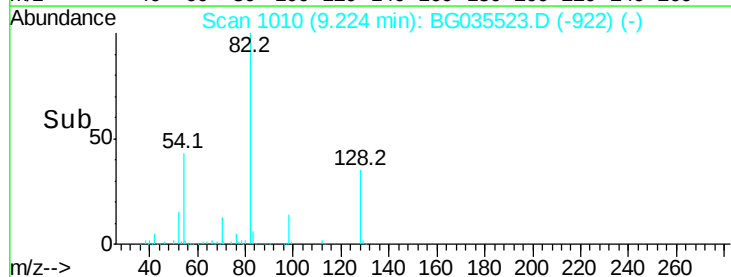
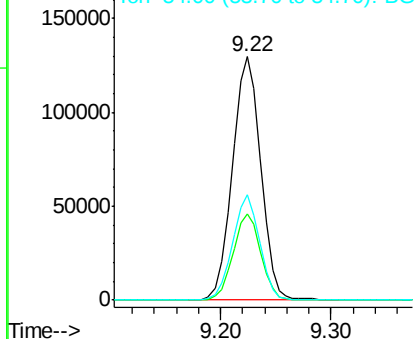


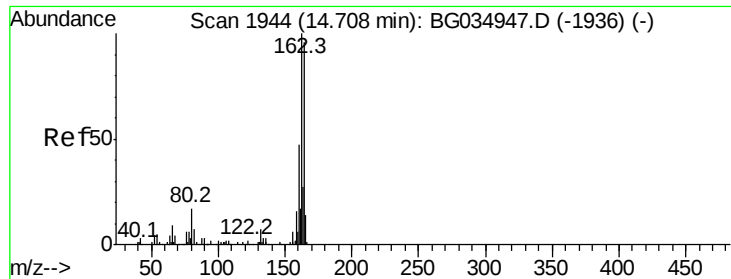
#23  
Nitrobenzene-d5  
Concen: 110.985 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. -0.02 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 232957    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 35.3  | 29.7 44.5 |
| 54          | 43.2  | 43.1 64.7 |



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.02 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

Instrument :

BNA\_G

ClientSampleId :

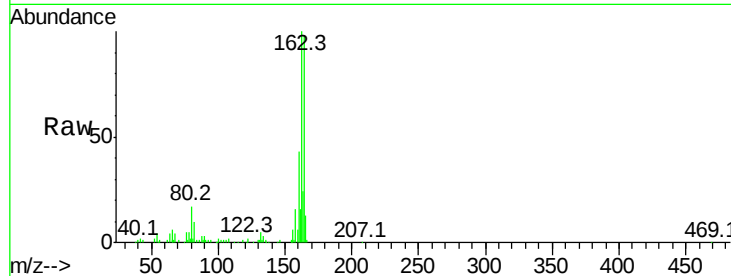
Tot Ion:164 Resp: 77134

Ion Ratio Lower Upper

164 100

162 102.3 78.8 118.2

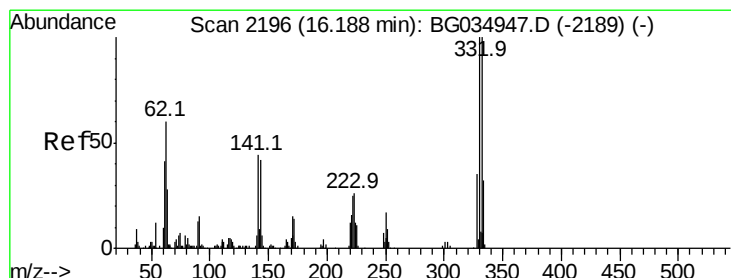
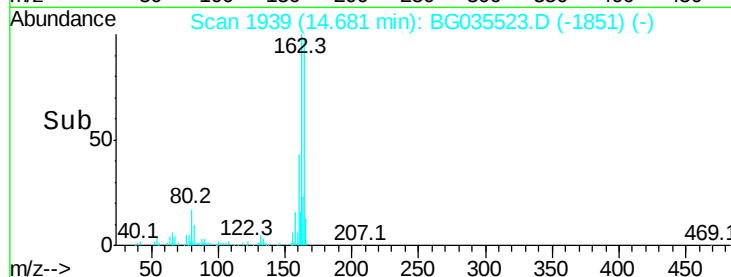
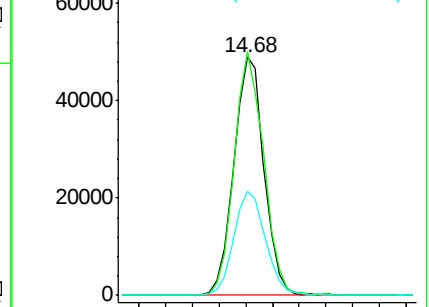
160 43.8 35.4 53.0



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: 184.912 ng

RT: 16.17 min Scan# 2192

Delta R.T. -0.02 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

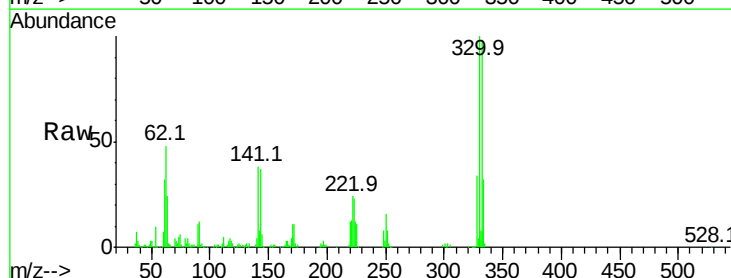
Tgt Ion:330 Resp: 182585

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

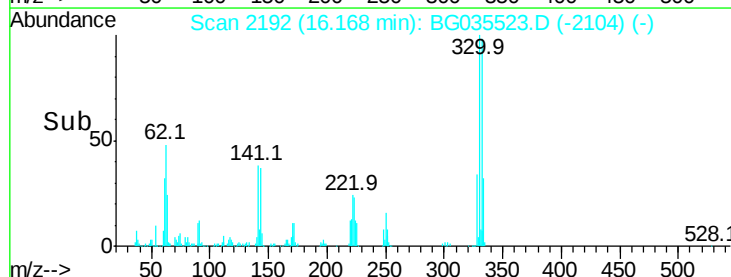
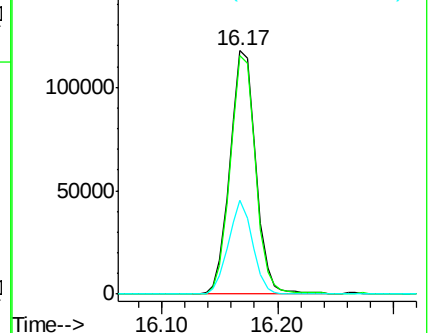
141 36.3 25.2 37.8

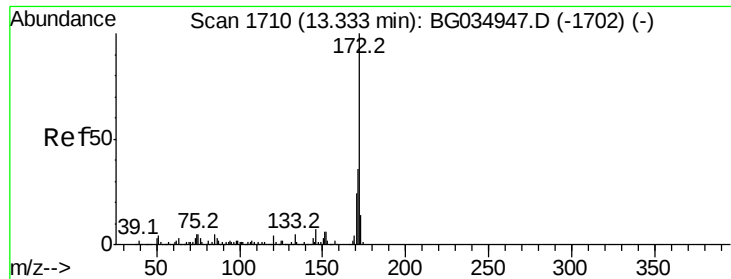


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

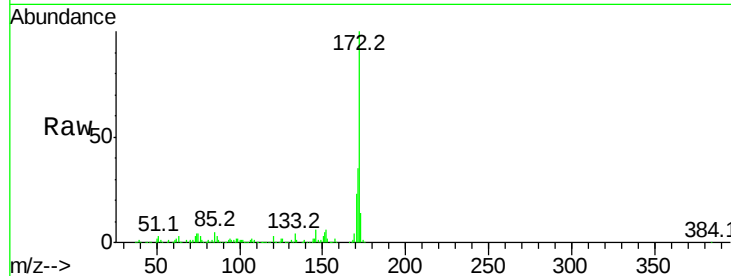




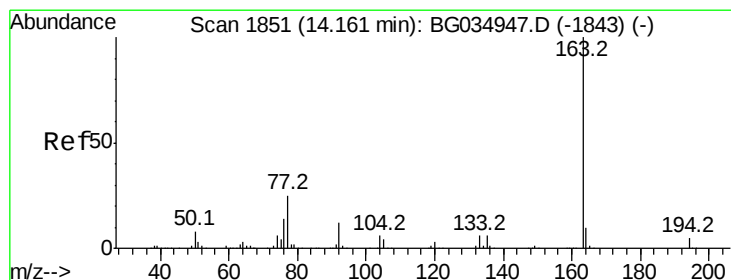
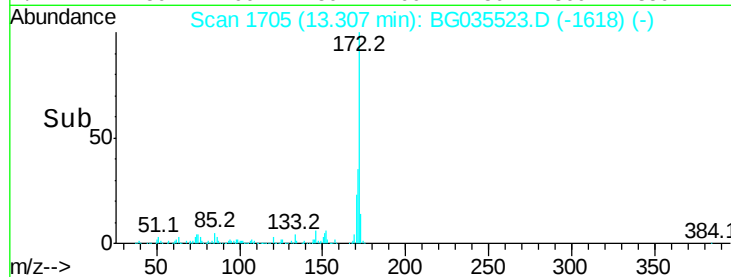
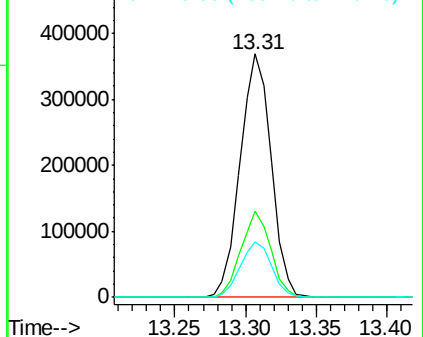
#44  
2-Fluorobiphenyl  
Concen: 95.736 ng  
RT: 13.31 min Scan# 1705  
Delta R.T. -0.02 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 30.0  | 45.0  |
| 170     | 22.6  | 19.5  | 29.3  |

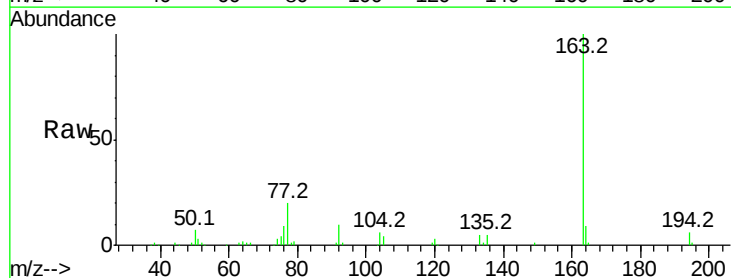


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

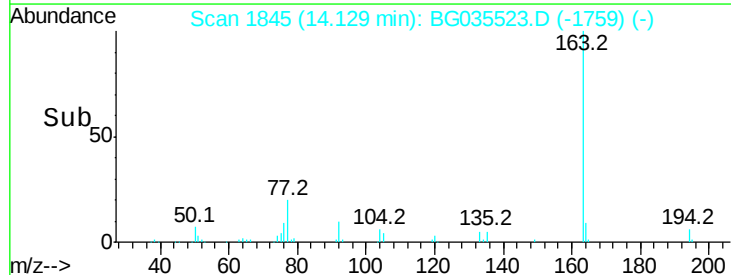
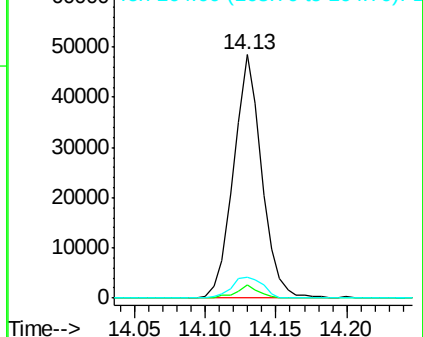


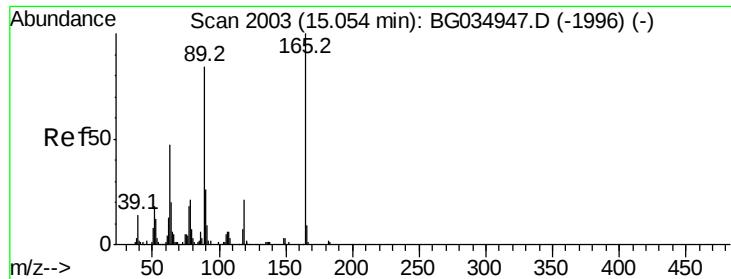
#49  
Dimethylphthalate  
Concen: 10.000 ng  
RT: 14.13 min Scan# 1845  
Delta R.T. -0.03 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.6   | 3.4   | 5.2#  |
| 164     | 8.8   | 8.2   | 12.4  |



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

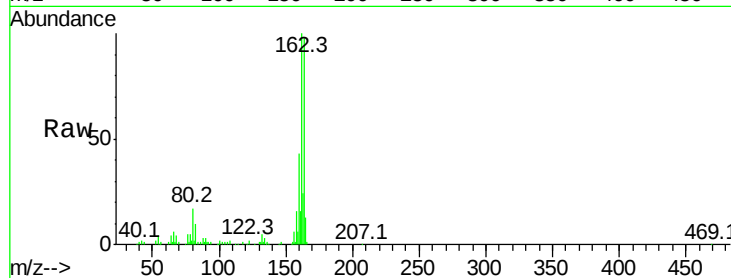




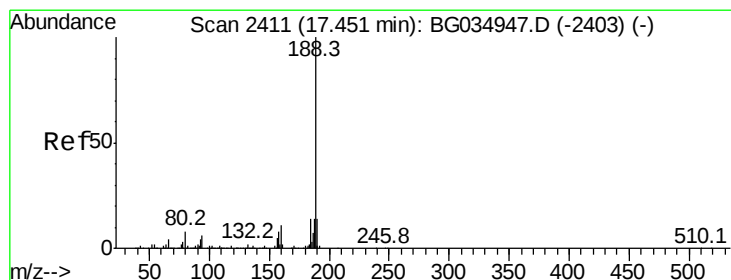
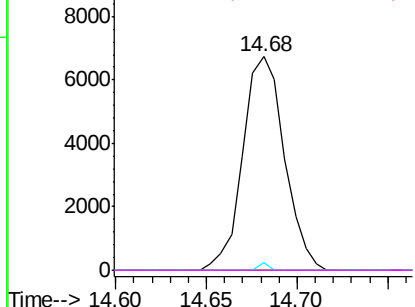
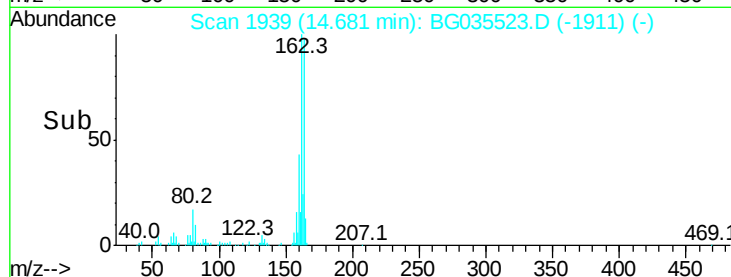
#56  
2,4-Dinitrotoluene  
Concen: 6.596 ng  
RT: 14.68 min Scan# 1939  
Delta R.T. -0.37 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 10752  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 3.7 66.9 100.3#  
182 0.0 2.6 3.8#

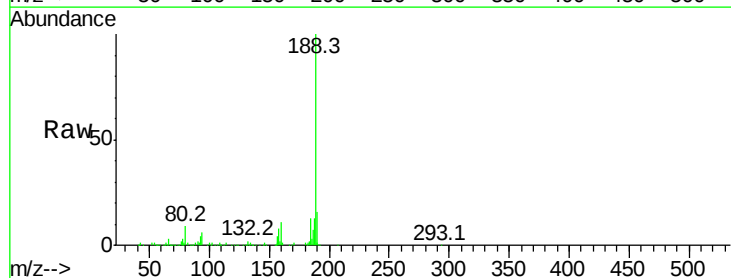


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

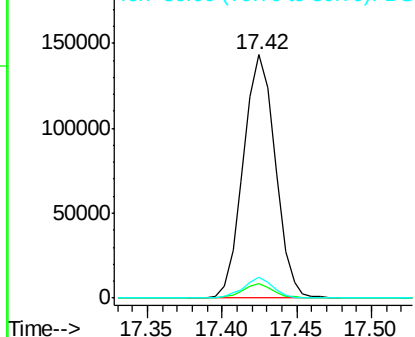
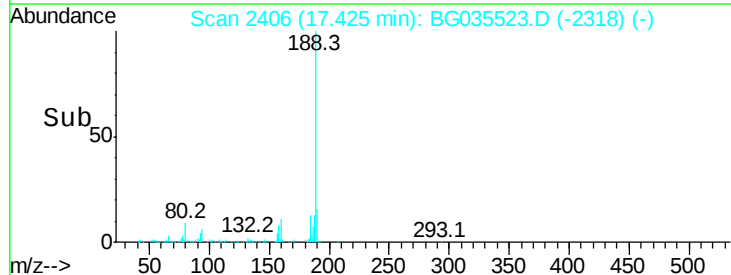


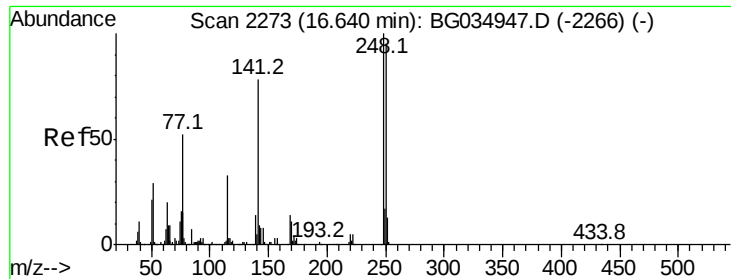
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2406  
Delta R.T. -0.02 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Tgt Ion:188 Resp: 213543  
Ion Ratio Lower Upper  
188 100  
94 6.2 6.9 10.3#  
80 8.7 7.7 11.5



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

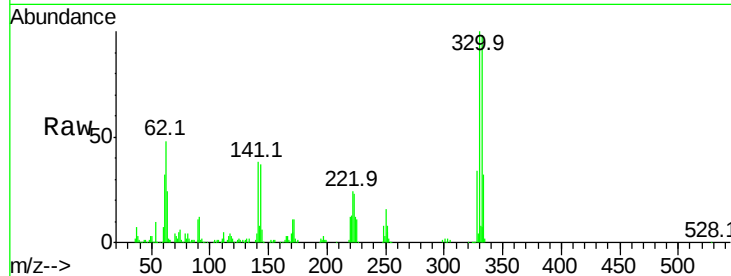




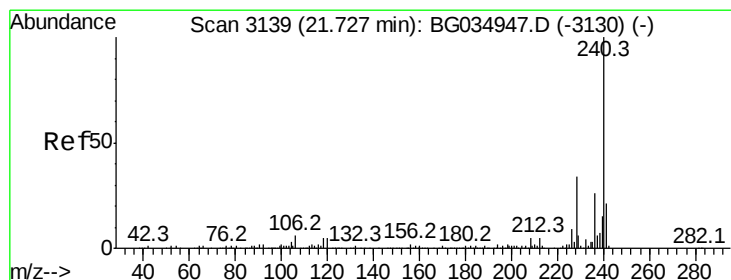
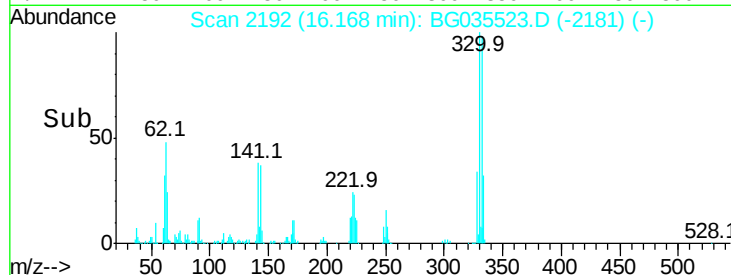
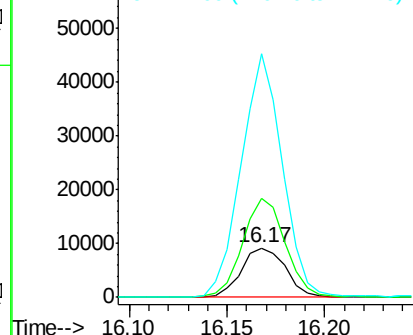
#66  
4-Bromophenyl-phenylether  
Concen: 5.614 ng  
RT: 16.17 min Scan# 2192  
Delta R.T. -0.47 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 14438  
Ion Ratio Lower Upper  
248 100  
250 200.2 77.1 115.7#  
141 491.6 50.8 76.2#

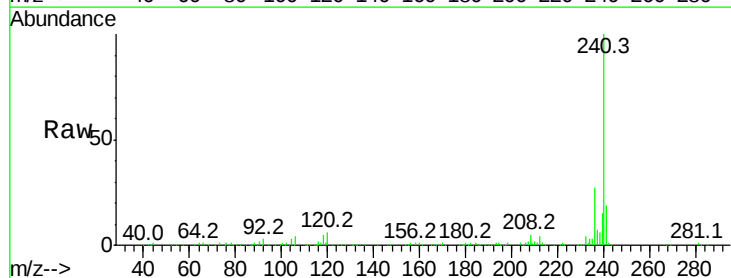


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

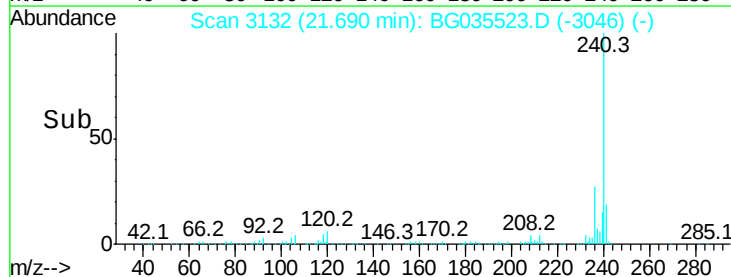
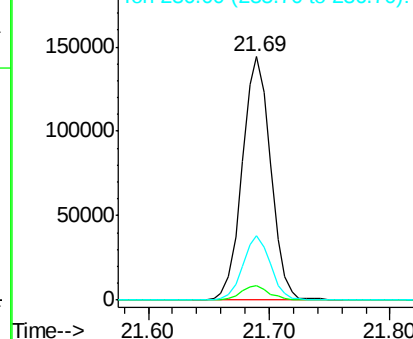


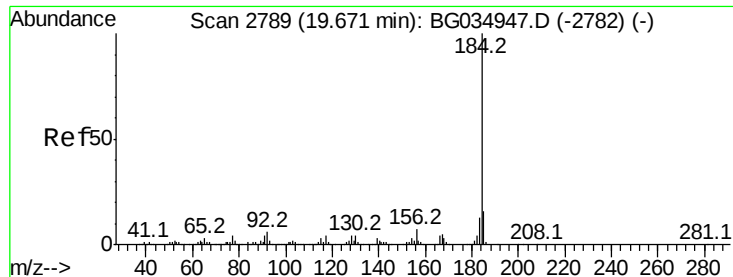
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3132  
Delta R.T. -0.03 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Tgt Ion:240 Resp: 237200  
Ion Ratio Lower Upper  
240 100  
120 5.9 6.8 10.2#  
236 26.6 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: 2.066 ng

RT: 20.03 min Scan# 2849

Delta R.T. 0.36 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

Instrument :

BNA\_G

ClientSampleId :

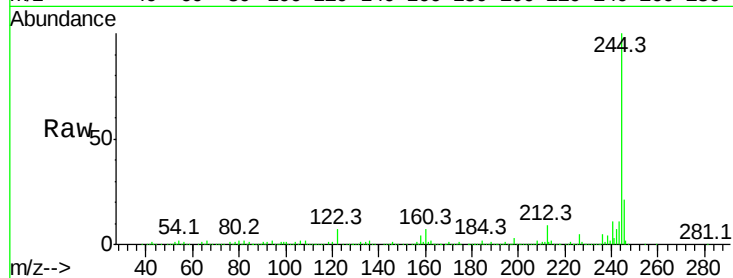
Tot Ion:184 Resp: 18228

Ion Ratio Lower Upper

184 100

185 20.2 11.1 16.7#

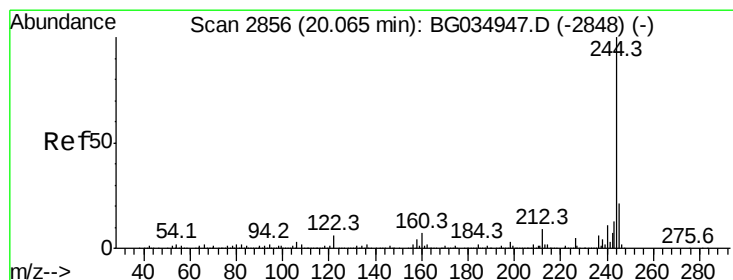
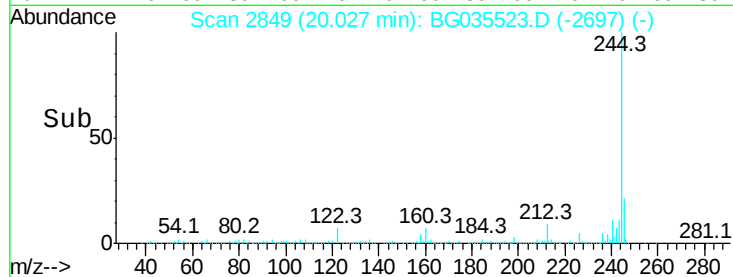
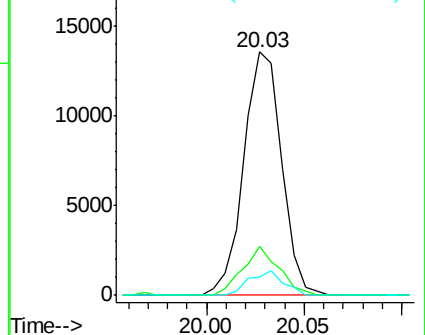
183 7.3 10.6 16.0#



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: 96.910 ng

RT: 20.03 min Scan# 2849

Delta R.T. -0.02 min

Lab File: BG035523.D

Acq: 30 Jun 2018 2:34

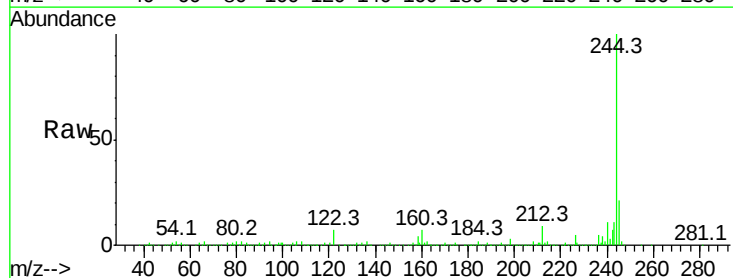
Tgt Ion:244 Resp: 1097405

Ion Ratio Lower Upper

244 100

212 9.0 5.8 8.8#

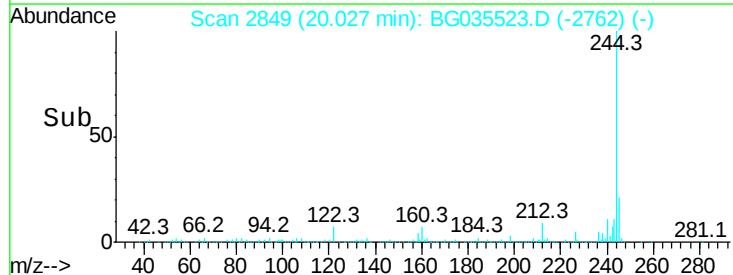
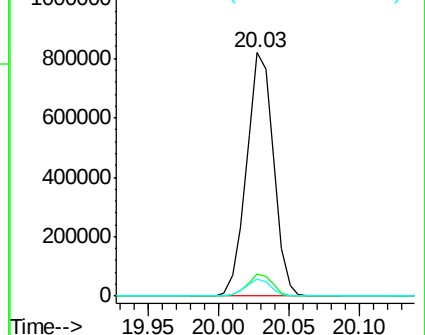
122 6.8 7.0 10.4#

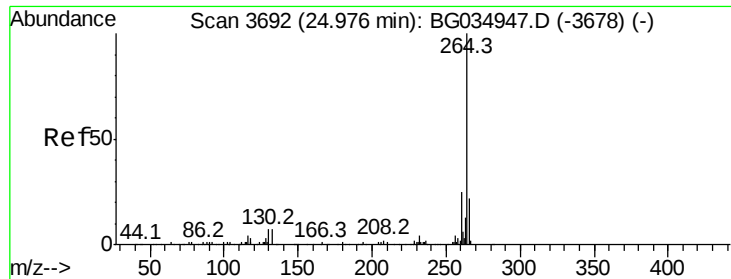


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

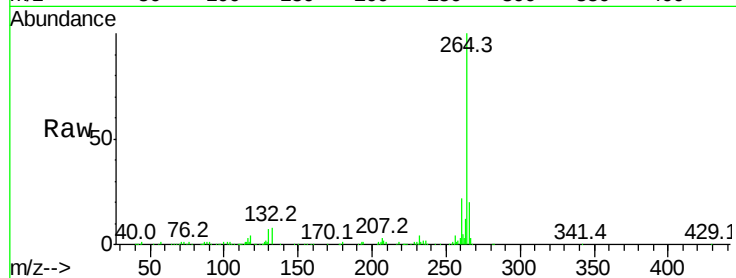




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.91 min Scan# 3681  
Delta R.T. -0.04 min  
Lab File: BG035523.D  
Acq: 30 Jun 2018 2:34

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.5  | 17.4  | 26.0  |
| 265     | 19.9  | 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

