

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090418\  
 Data File : BG036555.D  
 Acq On : 5 Sep 2018 7:30  
 Operator : JU/SJ  
 Sample : J4759-14  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 05 08:34:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 Response via : Initial Calibration

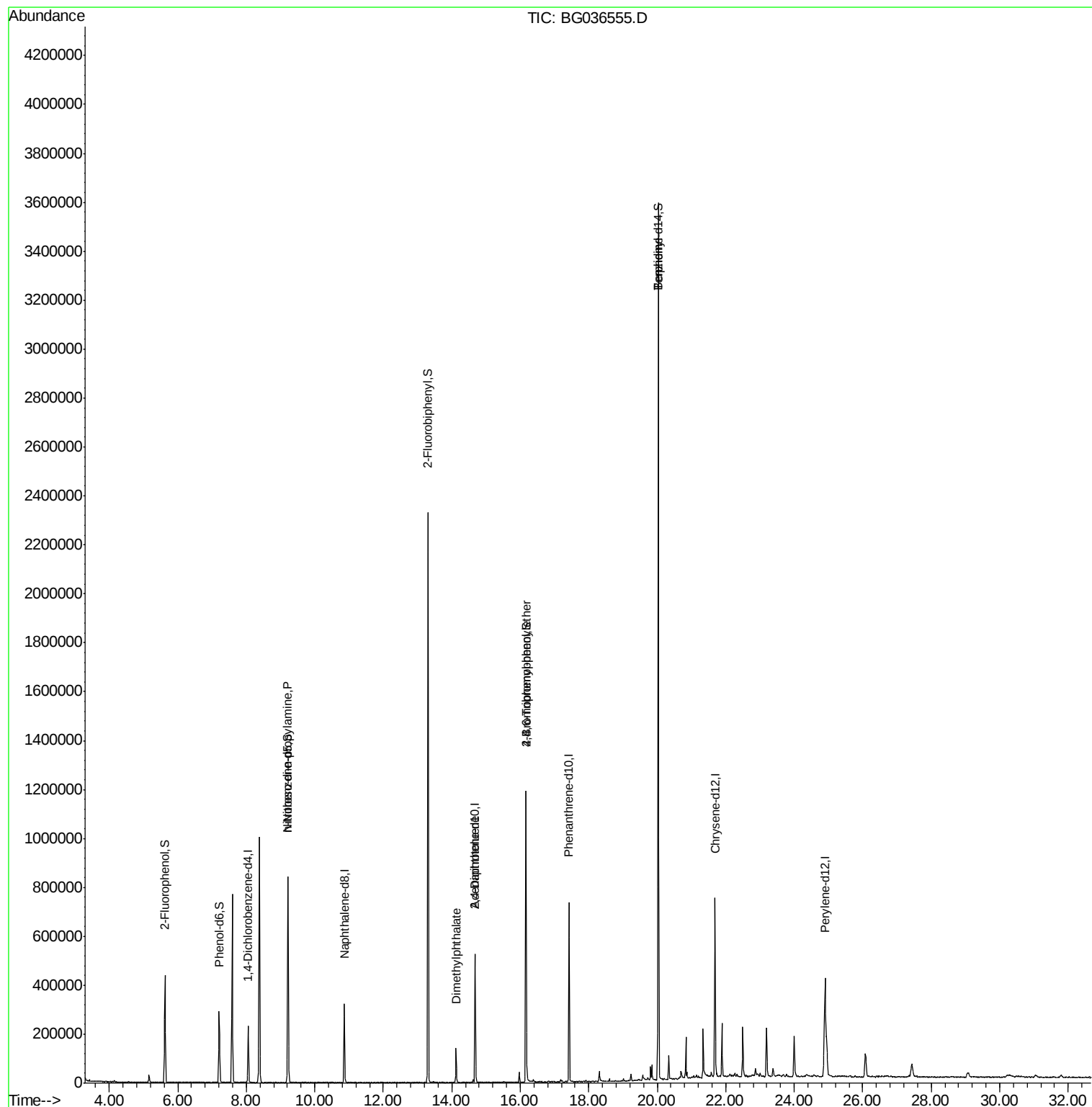
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 64905    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.86 | 136  | 267531   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10           | 14.68 | 164  | 177778   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10           | 17.42 | 188  | 451040   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 21.69 | 240  | 456083   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12               | 24.89 | 264  | 464398   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.63  | 112  | 185618   | 45.37  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.21  | 99   | 165208   | 28.20  | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 514605   | 104.36 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 224889   | 106.02 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 1182405  | 94.96  | ng    | 0.00        |
| 78) Terphenyl-d14              | 20.03 | 244  | 1661675  | 85.16  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 69077    | 15.778 | ng    | Qvalue # 69 |
| 49) Dimethylphthalate          | 14.13 | 163  | 92012    | 6.338  | ng    | 98          |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 23436    | 6.020  | ng    | # 20        |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 15520    | 2.939  | ng    | # 1         |
| 76) Benzidine                  | 20.03 | 184  | 29314    | 2.015  | ng    | # 92        |

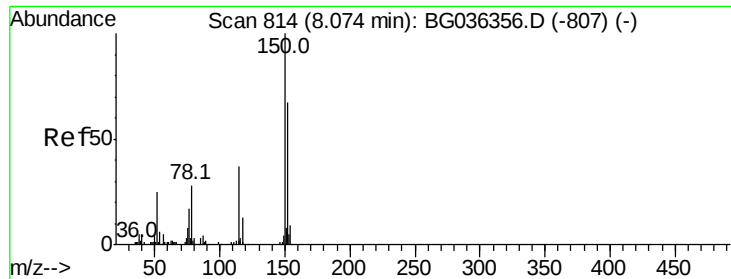
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090418\  
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Sample : J4759-14  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Time: Sep 05 08:34:24 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 31 13:03:20 2018  
Response via : Initial Calibration



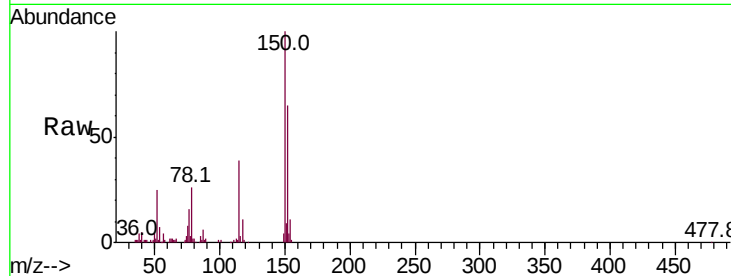


#1

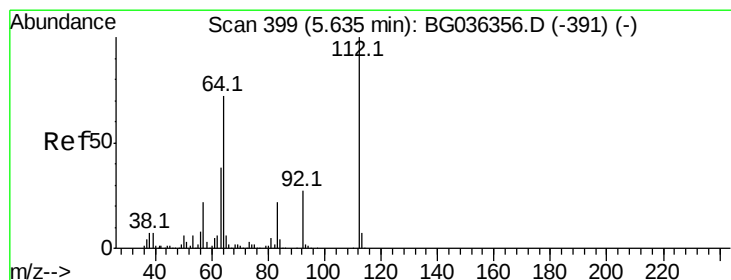
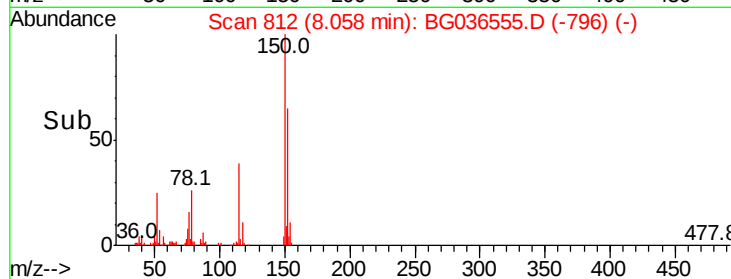
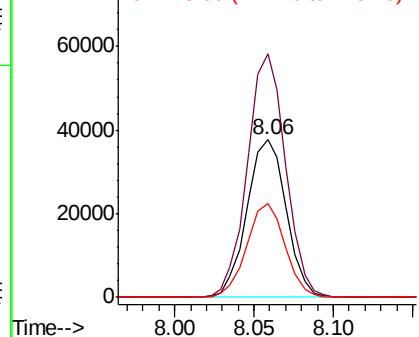
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 64905  
Ion Ratio Lower Upper  
152 100  
150 154.4 119.5 179.3  
115 59.9 44.5 66.7



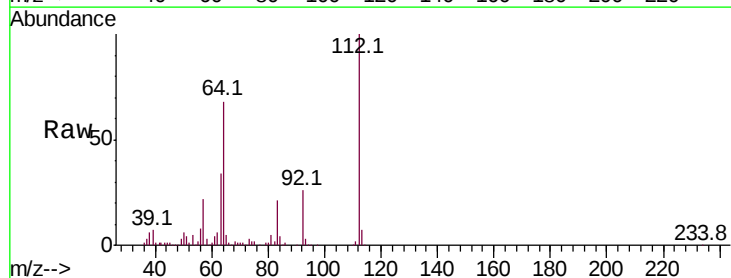
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



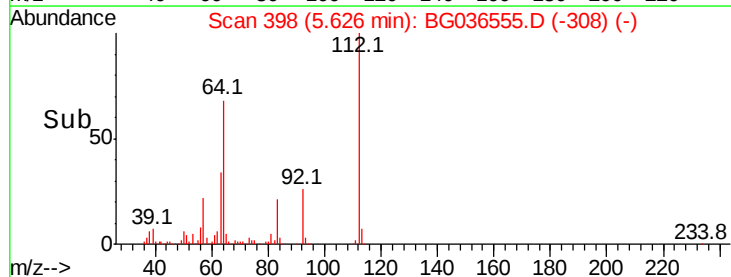
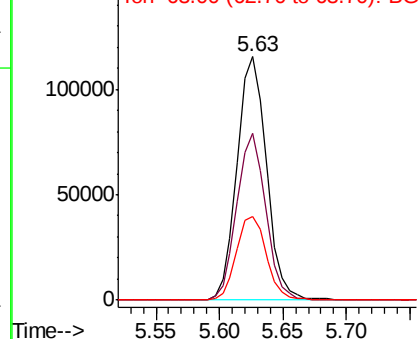
#5

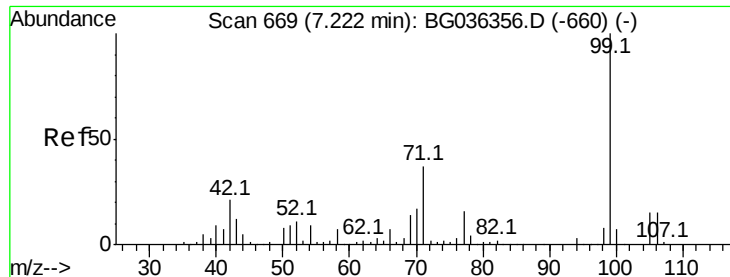
2-Fluorophenol  
Concen: 45.366 ng  
RT: 5.63 min Scan# 398  
Delta R.T. 0.00 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Tgt Ion:112 Resp: 185618  
Ion Ratio Lower Upper  
112 100  
64 68.5 57.2 85.8  
63 34.3 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: 28.201 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.01 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

Instrument :

BNA\_G

ClientSampleId :

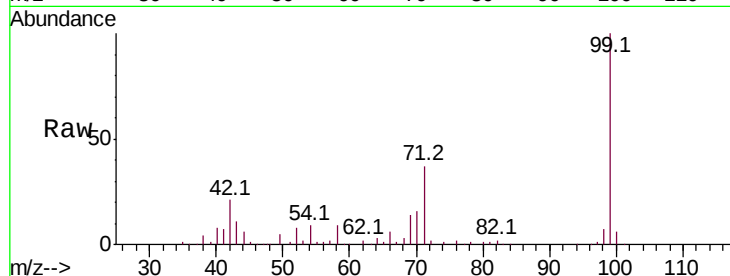
Tot Ion: 99 Resp: 165208

Ion Ratio Lower Upper

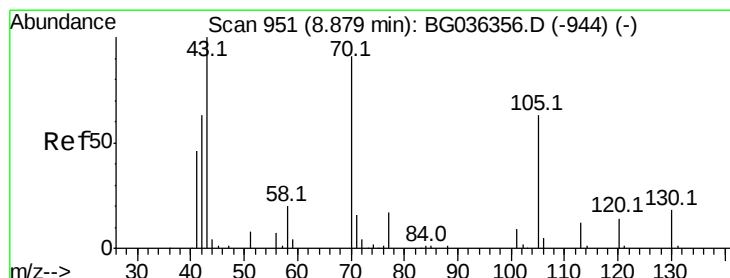
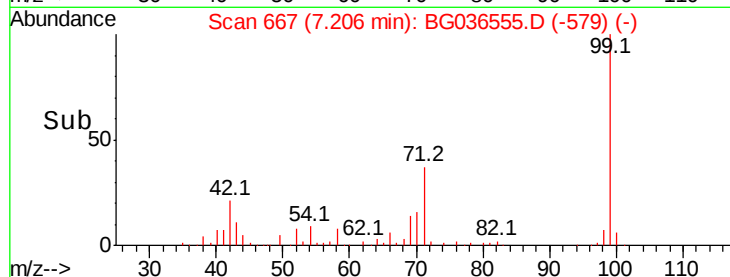
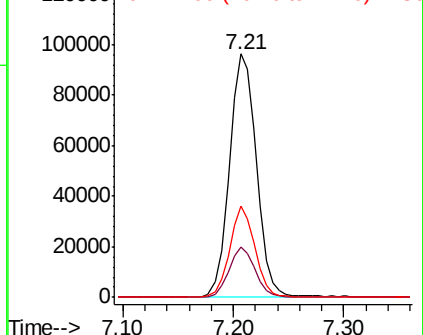
99 100

42 20.8 16.5 24.7

71 37.4 29.4 44.2



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: 15.778 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.36 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

Tgt Ion: 70 Resp: 69077

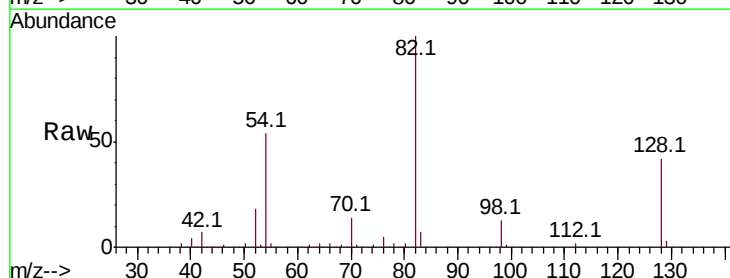
Ion Ratio Lower Upper

70 100

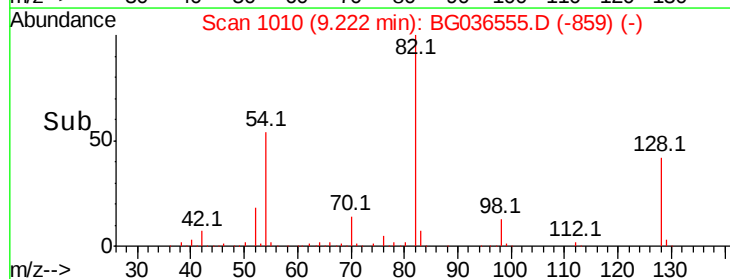
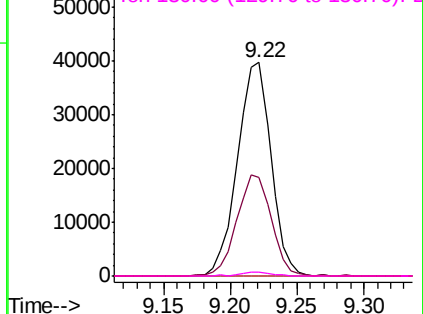
42 46.4 56.2 84.4#

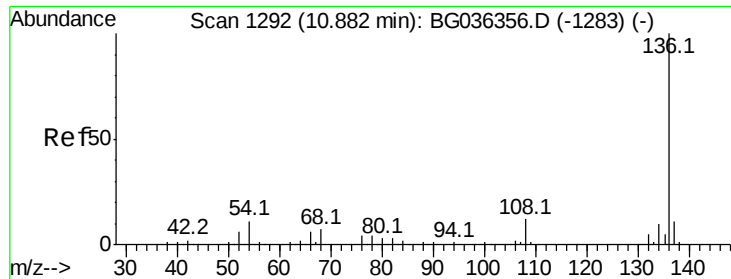
101 0.0 7.8 11.6#

130 1.8 16.2 24.2#



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

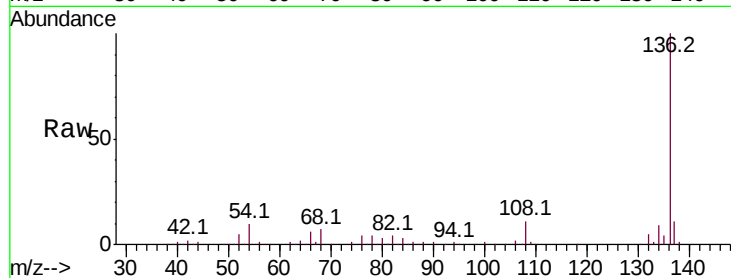




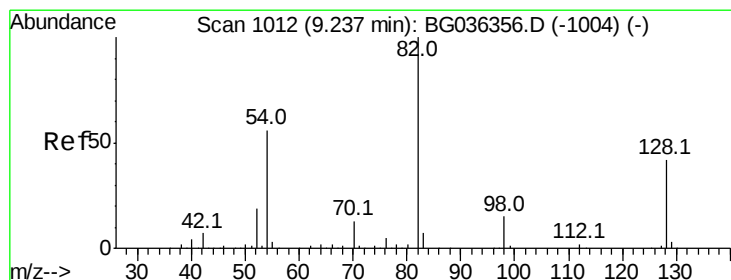
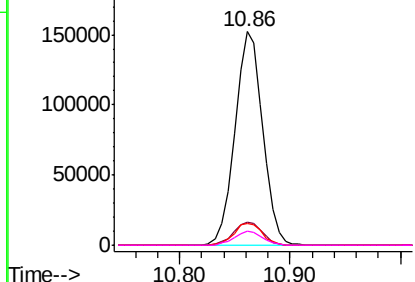
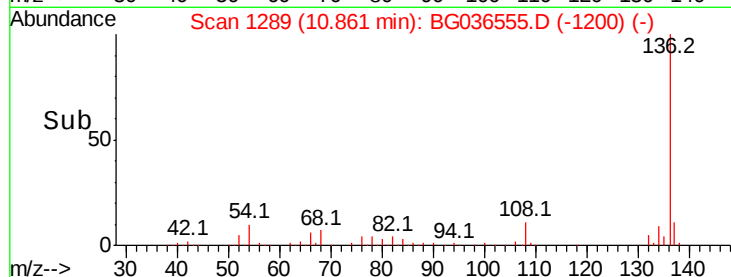
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 267531 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 10.2  | 9.2   | 13.8   |
| 68       | 6.6   | 5.8   | 8.6    |

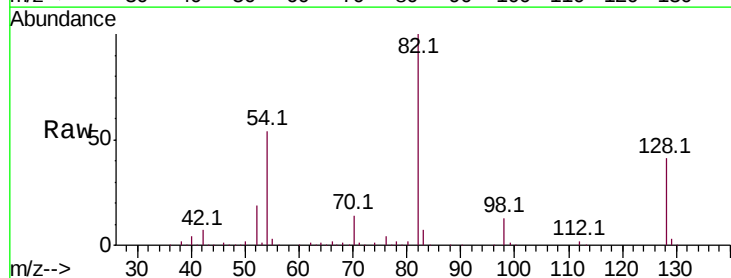


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BG  
Ion 68.00 (67.70 to 68.70): BG

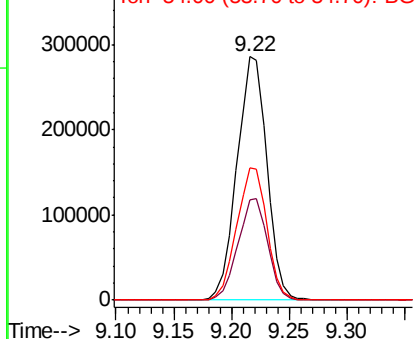
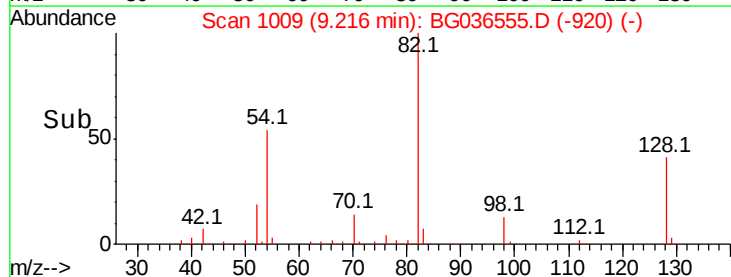


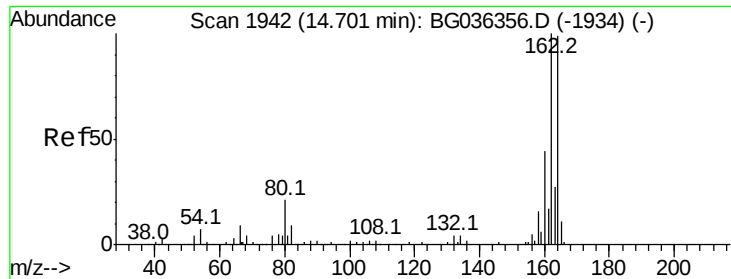
#23  
Nitrobenzene-d5  
Concen: 104.365 ng  
RT: 9.22 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 514605 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.9  | 33.3  | 49.9   |
| 54       | 54.1  | 45.1  | 67.7   |



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

Instrument :

BNA\_G

ClientSampleId :

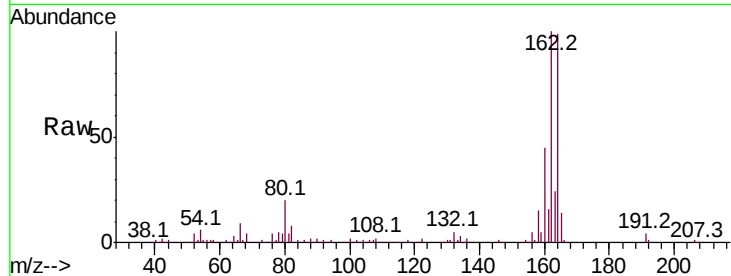
Tot Ion:164 Resp: 177778

Ion Ratio Lower Upper

164 100

162 101.5 80.7 121.1

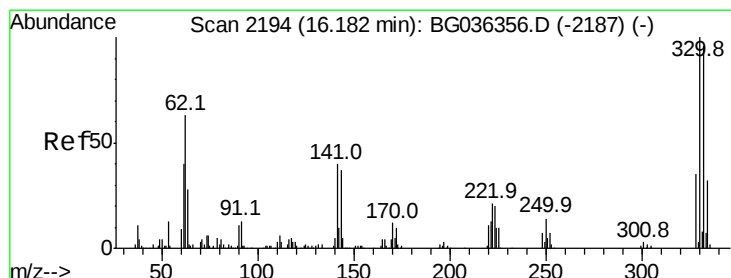
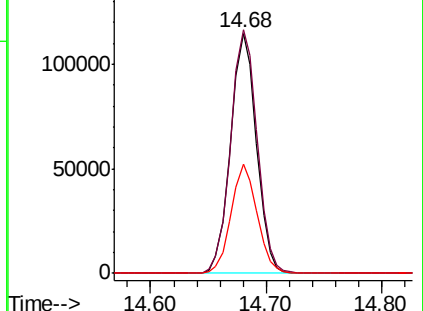
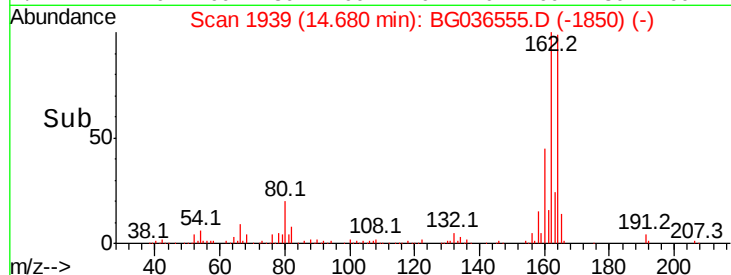
160 45.7 35.3 52.9



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: 106.015 ng

RT: 16.17 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

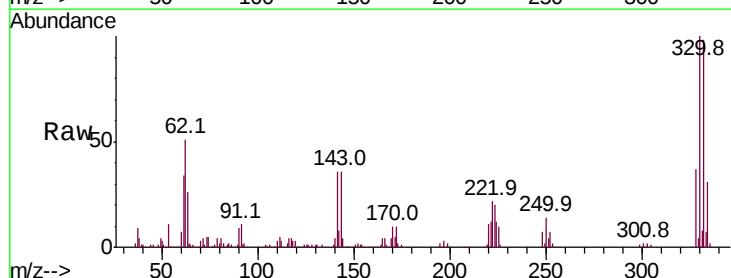
Tgt Ion:330 Resp: 224889

Ion Ratio Lower Upper

330 100

332 95.2 75.4 113.2

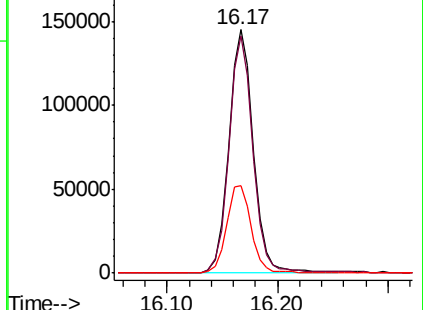
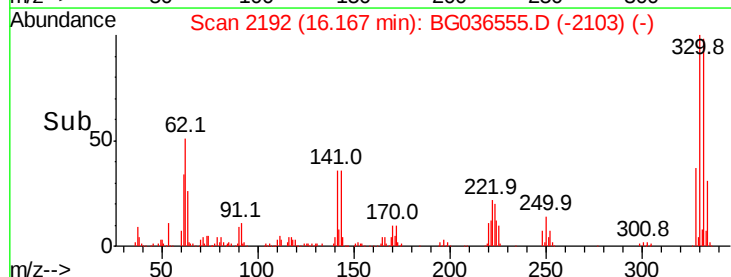
141 36.6 30.7 46.1

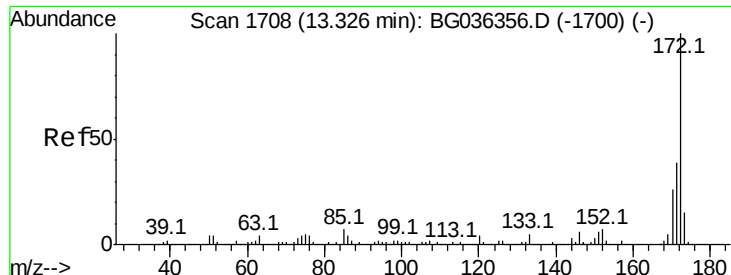


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

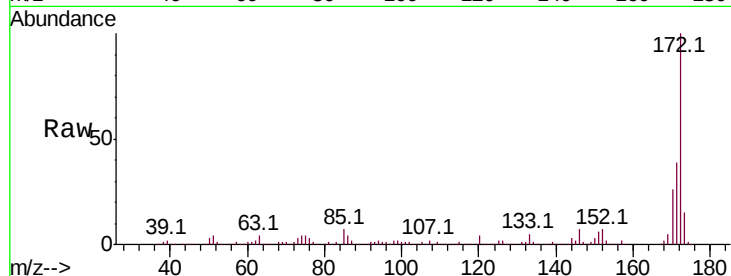




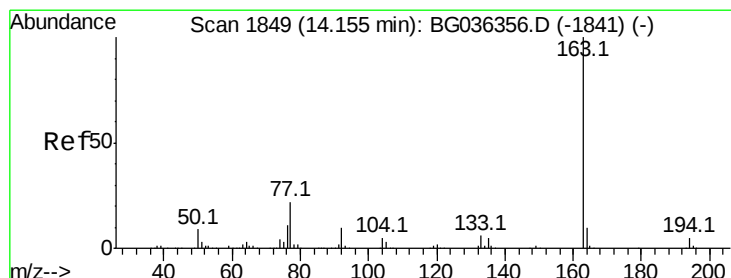
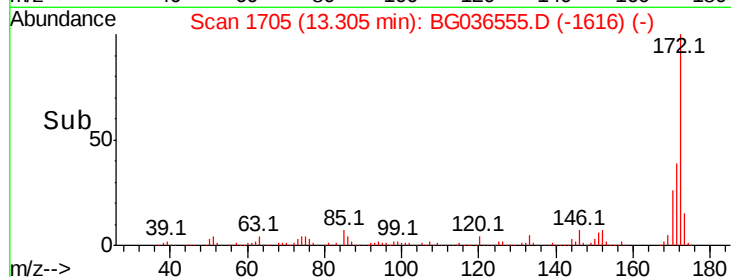
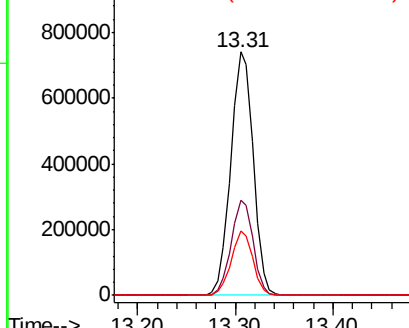
#44  
2-Fluorobiphenyl  
Concen: 94.965 ng  
RT: 13.31 min Scan# 1705  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:172 Resp: 1182405  
Ion Ratio Lower Upper  
172 100  
171 39.2 31.3 46.9  
170 26.3 21.0 31.6

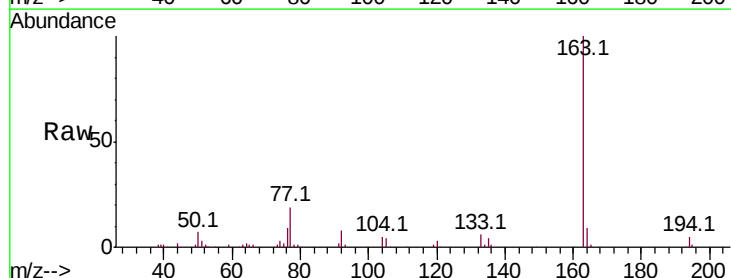


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

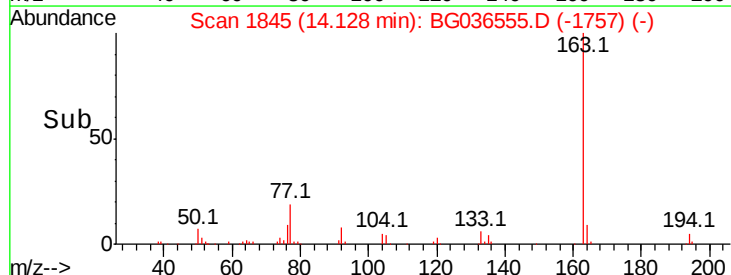
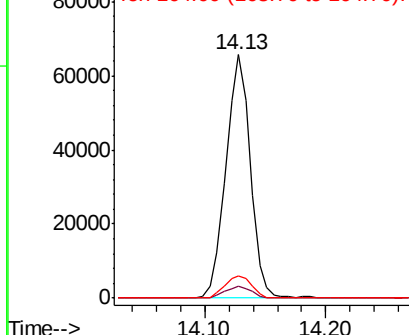


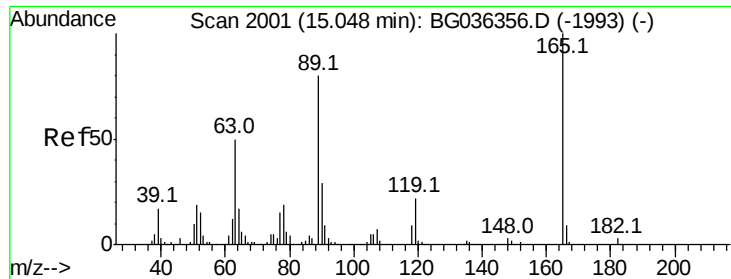
#49  
Dimethylphthalate  
Concen: 6.338 ng  
RT: 14.13 min Scan# 1845  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Tgt Ion:163 Resp: 92012  
Ion Ratio Lower Upper  
163 100  
194 5.0 4.0 6.0  
164 9.1 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

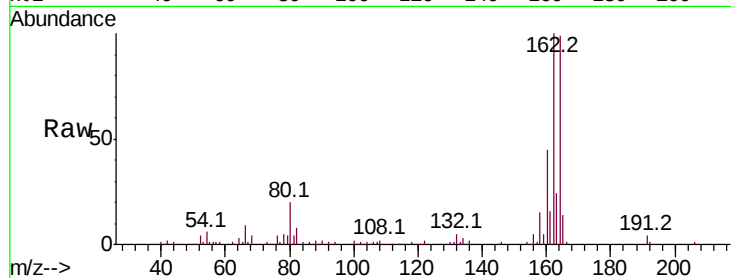




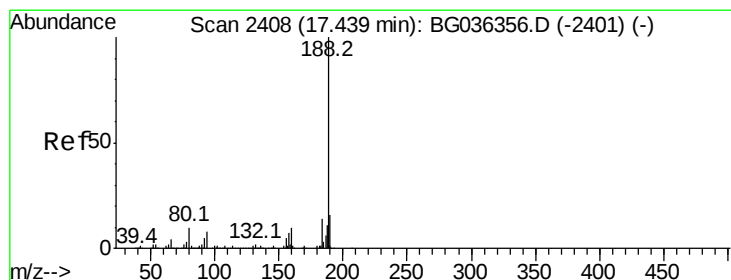
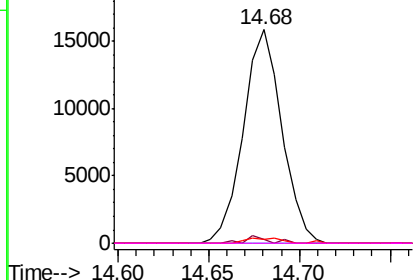
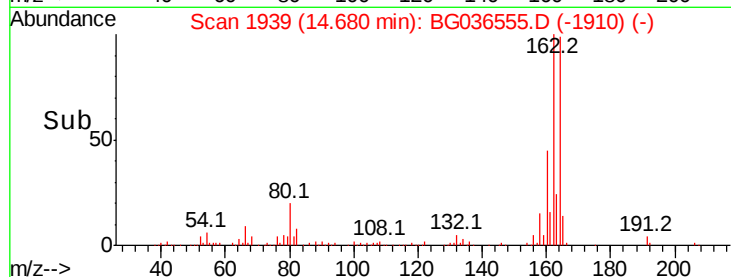
#56  
 2,4-Dinitrotoluene  
 Concen: 6.020 ng  
 RT: 14.68 min Scan# 1939  
 Delta R.T. -0.36 min  
 Lab File: BG036555.D  
 Acq: 5 Sep 2018 7:30

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:165 Resp: 23436  
 Ion Ratio Lower Upper  
 165 100  
 63 2.0 40.1 60.1#  
 89 1.7 63.7 95.5#  
 182 0.0 2.5 3.7#

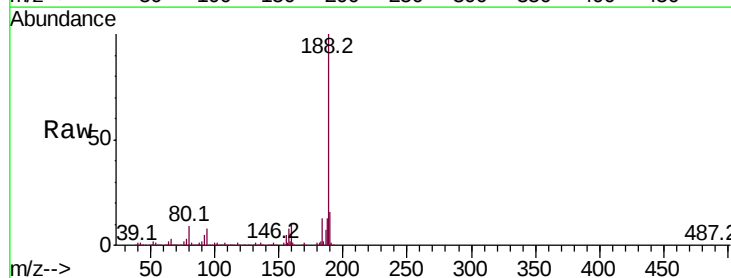


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

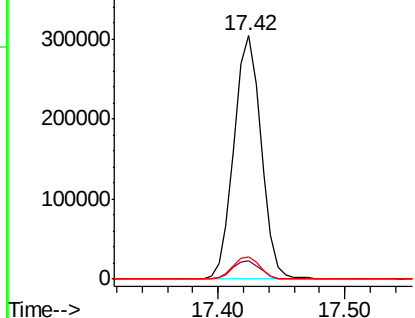
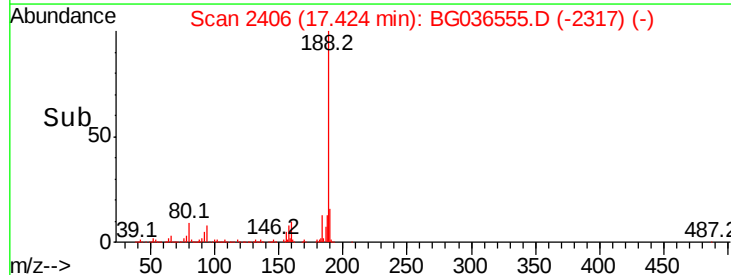


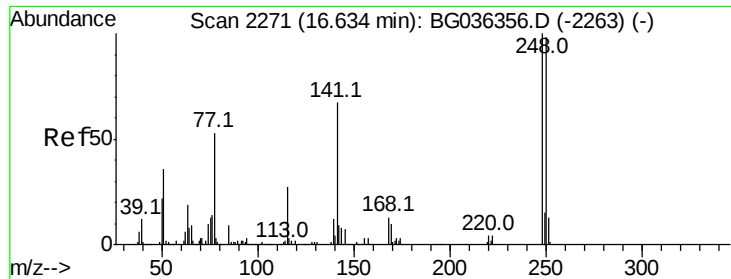
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2406  
 Delta R.T. -0.01 min  
 Lab File: BG036555.D  
 Acq: 5 Sep 2018 7:30

Tgt Ion:188 Resp: 451040  
 Ion Ratio Lower Upper  
 188 100  
 94 7.6 6.7 10.1  
 80 9.0 8.1 12.1



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

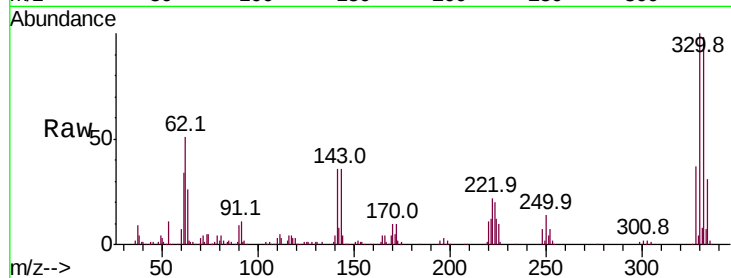




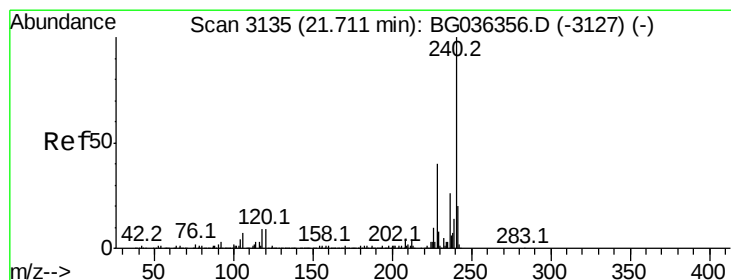
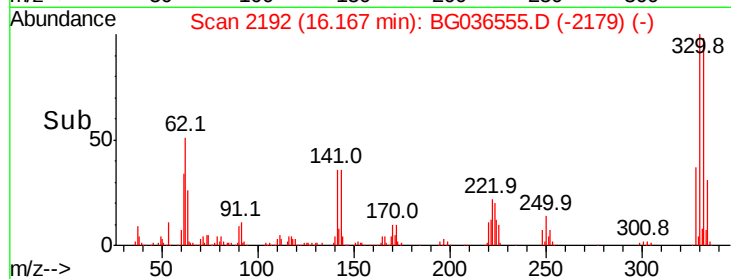
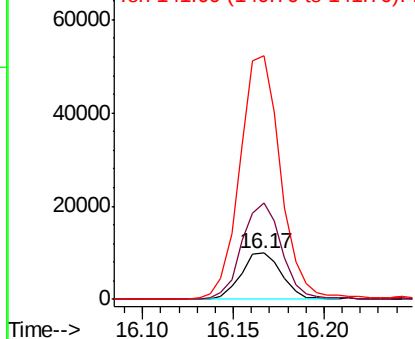
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.939 ng  
 RT: 16.17 min Scan# 2192  
 Delta R.T. -0.45 min  
 Lab File: BG036555.D  
 Acq: 5 Sep 2018 7:30

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 15520  
 Ion Ratio Lower Upper  
 248 100  
 250 209.5 78.1 117.1#  
 141 530.2 53.7 80.5#

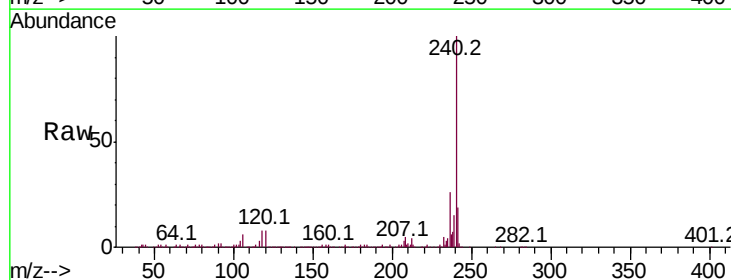


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

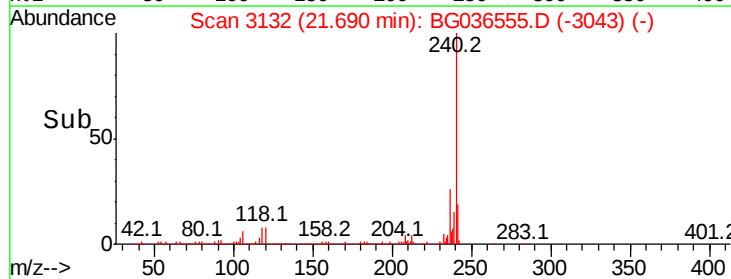
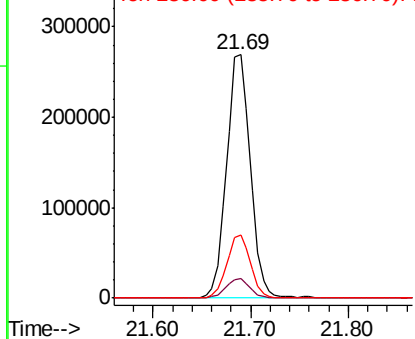


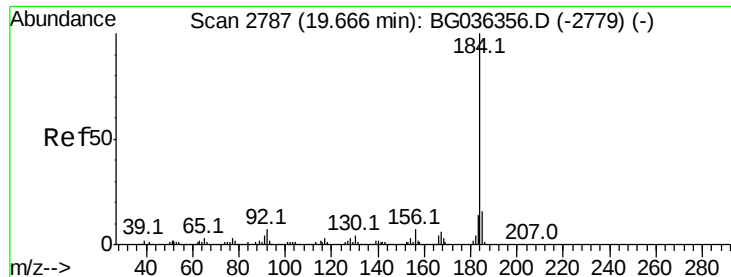
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3132  
 Delta R.T. -0.01 min  
 Lab File: BG036555.D  
 Acq: 5 Sep 2018 7:30

Tgt Ion:240 Resp: 456083  
 Ion Ratio Lower Upper  
 240 100  
 120 8.0 6.9 10.3  
 236 25.9 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: 2.015 ng

RT: 20.03 min Scan# 2850

Delta R.T. 0.38 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

Instrument :

BNA\_G

ClientSampleId :

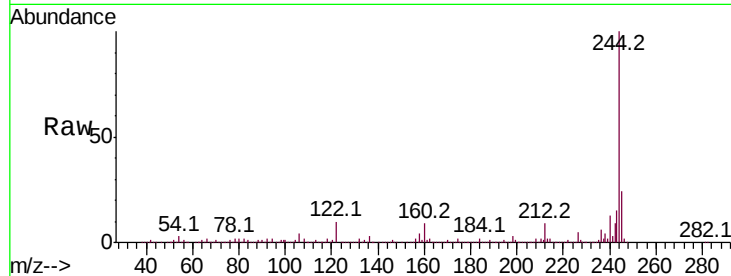
Tot Ion:184 Resp: 29314

Ion Ratio Lower Upper

184 100

185 17.4 12.6 18.8

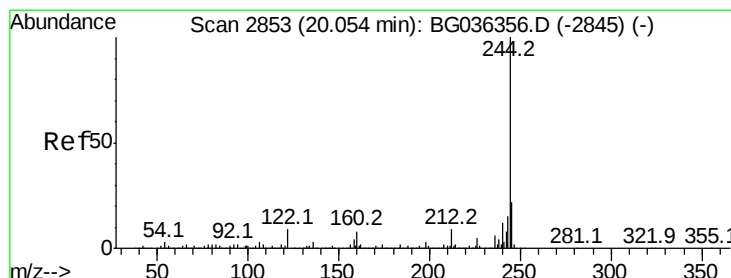
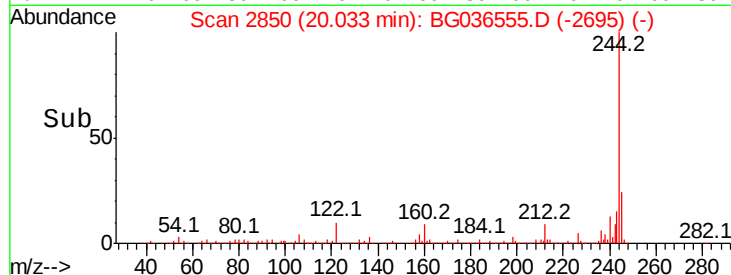
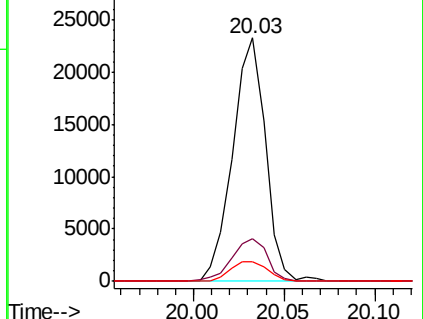
183 8.2 10.9 16.3#



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: 85.158 ng

RT: 20.03 min Scan# 2850

Delta R.T. 0.00 min

Lab File: BG036555.D

Acq: 5 Sep 2018 7:30

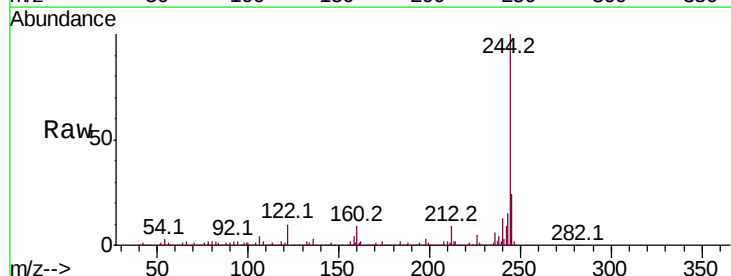
Tgt Ion:244 Resp: 1661675

Ion Ratio Lower Upper

244 100

212 9.2 7.0 10.6

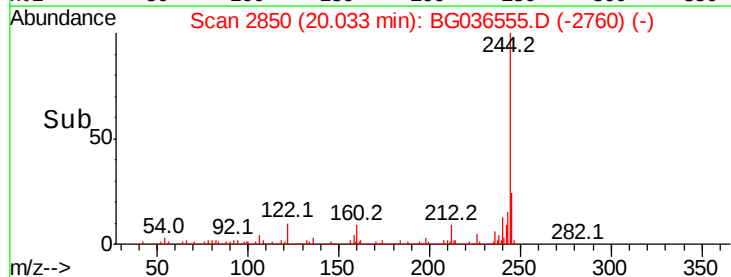
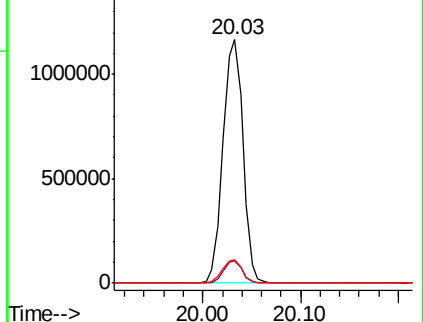
122 9.6 7.1 10.7

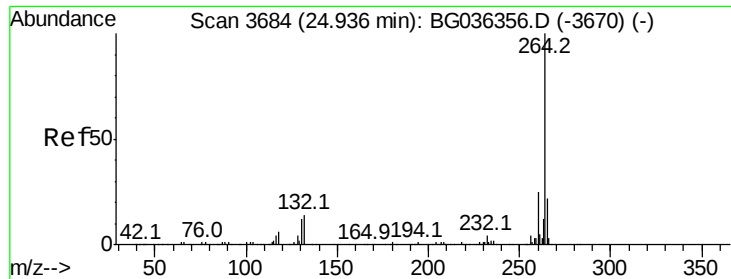


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3677  
Delta R.T. -0.01 min  
Lab File: BG036555.D  
Acq: 5 Sep 2018 7:30

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.6  | 29.4  |
| 265     | 21.2  | 17.4  | 26.0  |

