

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091018\  
 Data File : BG036649.D  
 Acq On : 11 Sep 2018 6:42  
 Operator : JU/SJ  
 Sample : J4777-10  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 11 07:29:13 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

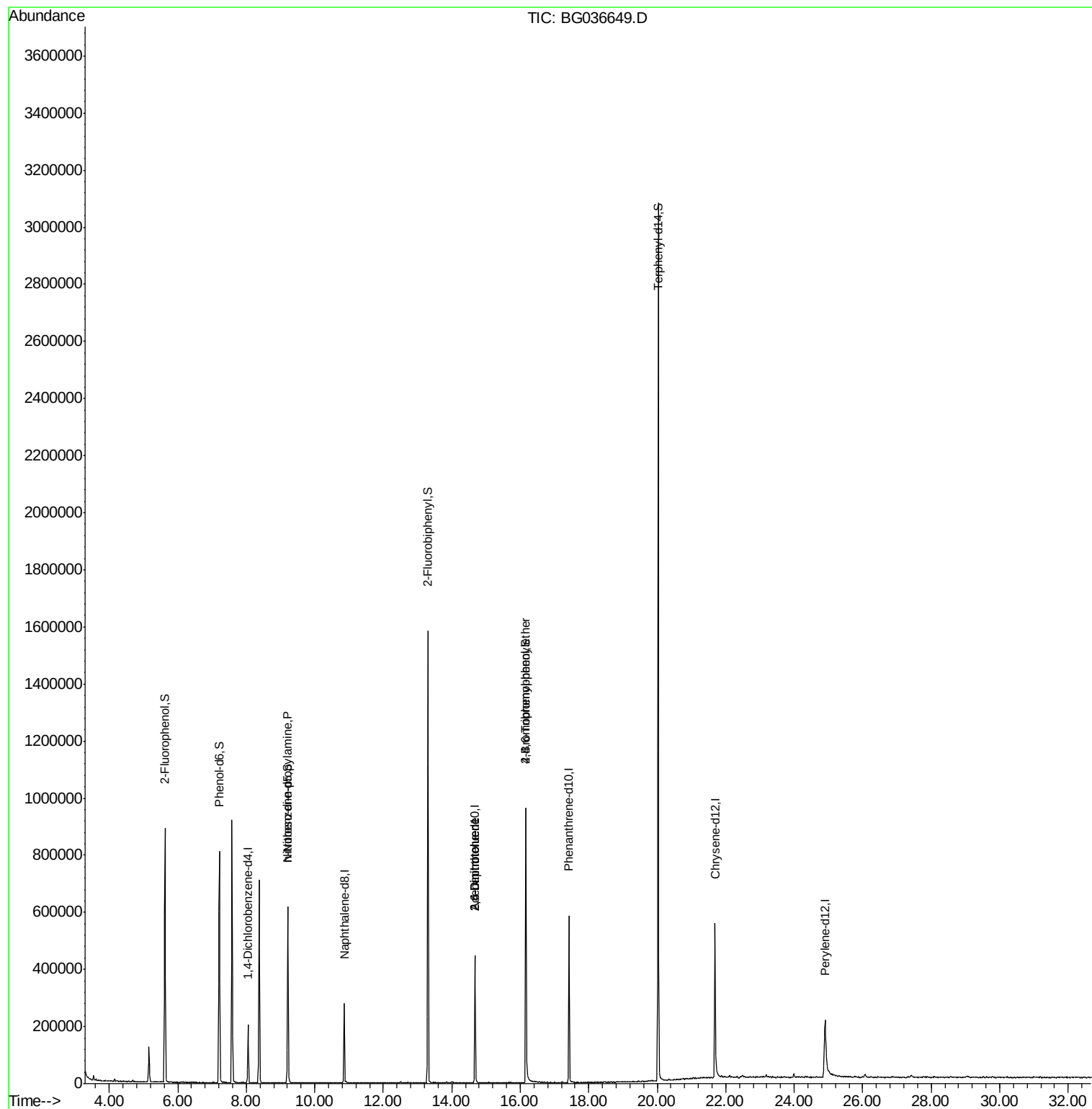
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 56540    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.86 | 136  | 236733   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.68 | 164  | 152745   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.42 | 188  | 386888   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.69 | 240  | 397474   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.90 | 264  | 302163   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 373551   | 104.80 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 477699   | 93.61  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 365676   | 83.81  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 193072   | 105.93 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 840426   | 78.56  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.03 | 244  | 1453522  | 85.47  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 49090    | 12.871 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 19762    | 7.700  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 19762    | 5.908  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 13288    | 2.934  | ng    | # 1      |

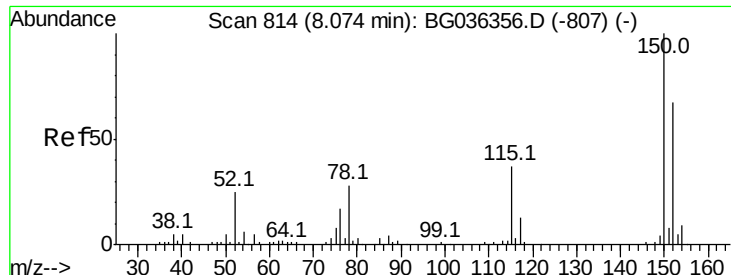
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 22 Sample Multiplier: 1

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BNA\_G  
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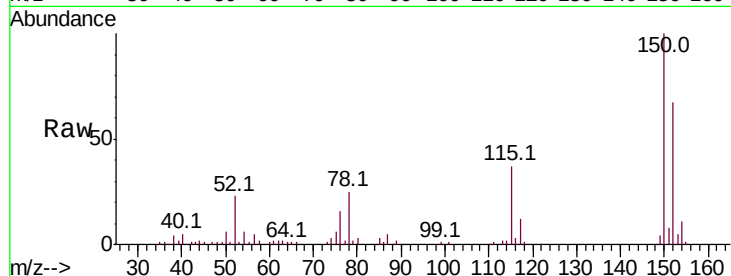


#1

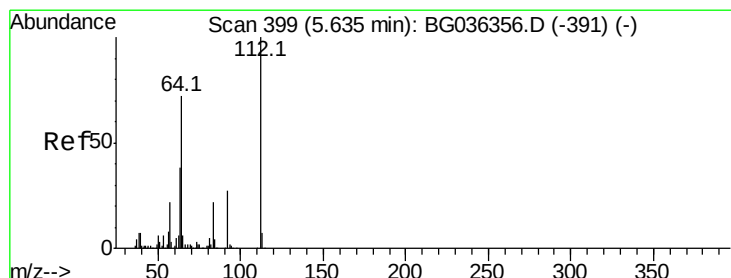
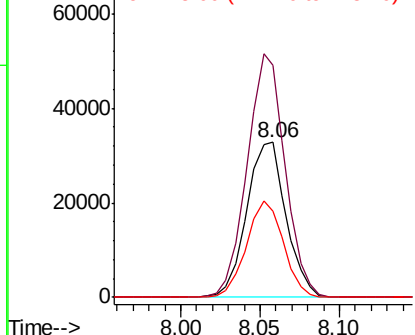
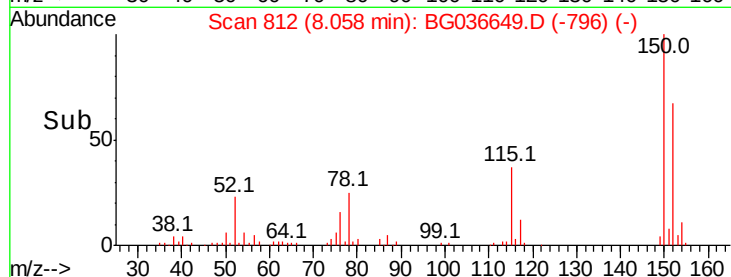
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 119.5 | 179.3 |
| 115     | 55.9  | 44.5  | 66.7  |



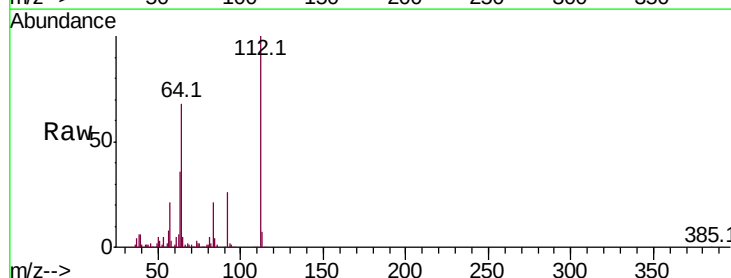
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



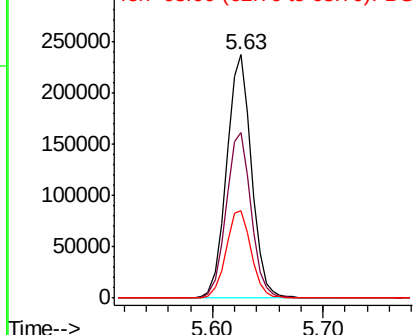
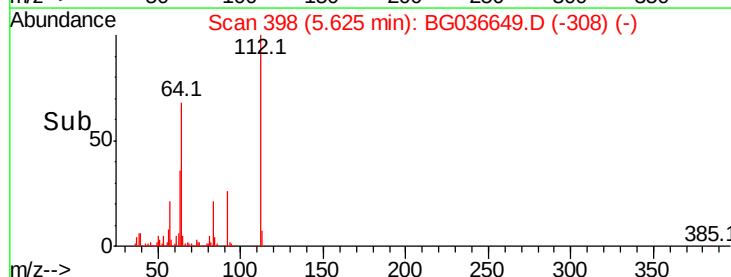
#5

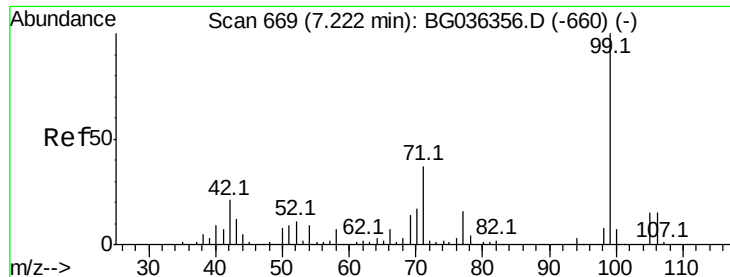
2-Fluorophenol  
 Concen: 104.804 ng  
 RT: 5.63 min Scan# 398  
 Delta R.T. 0.00 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.9  | 57.2  | 85.8  |
| 63      | 36.1  | 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: 93.608 ng

RT: 7.21 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG036649.D

Acq: 11 Sep 2018 6:42

Instrument :

BNA\_G

ClientSampleId :

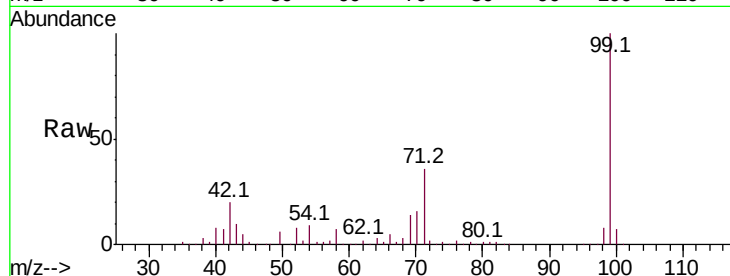
Tot Ion: 99 Resp: 477699

Ion Ratio Lower Upper

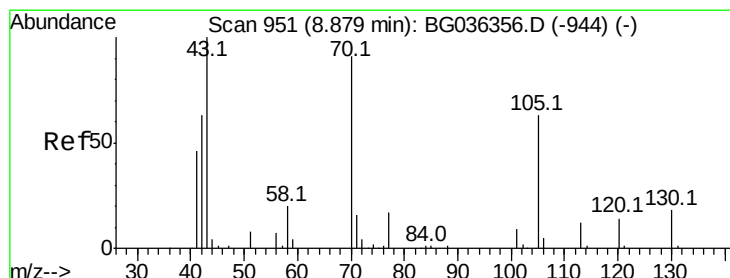
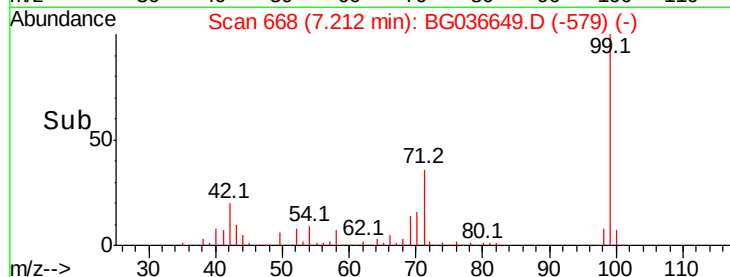
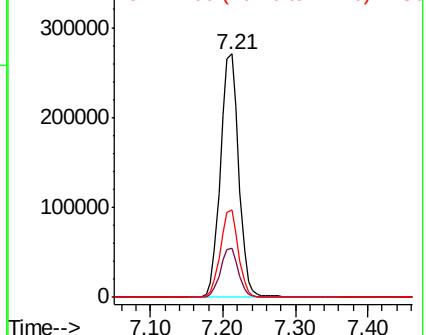
99 100

42 20.0 16.5 24.7

71 36.2 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: 12.871 ng

RT: 9.22 min Scan# 1009

Delta R.T. 0.35 min

Lab File: BG036649.D

Acq: 11 Sep 2018 6:42

Tgt Ion: 70 Resp: 49090

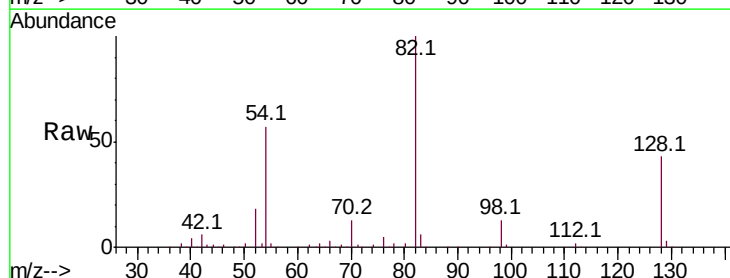
Ion Ratio Lower Upper

70 100

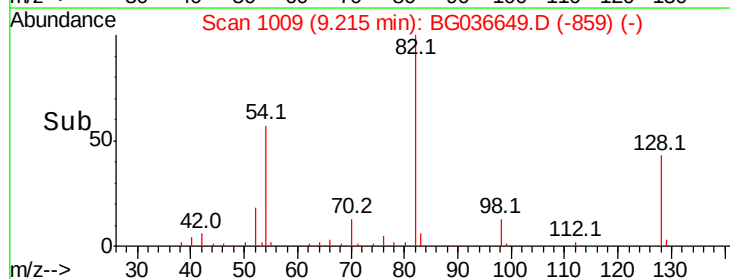
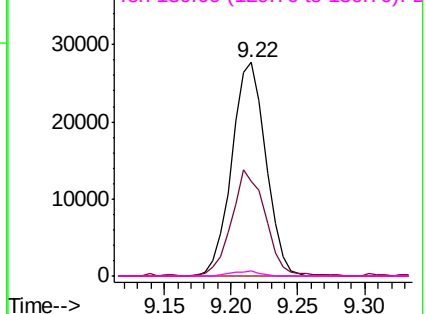
42 44.4 56.2 84.4#

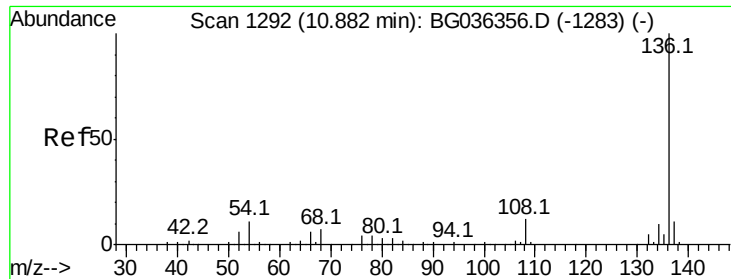
101 0.0 7.8 11.6#

130 2.5 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

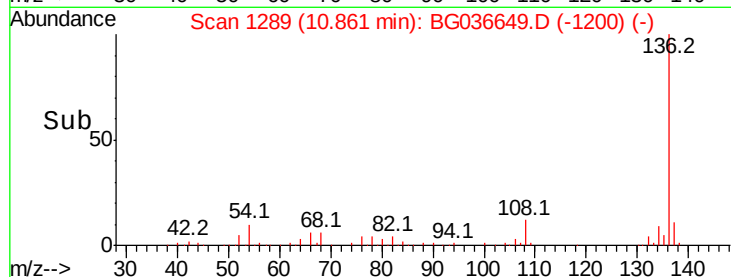
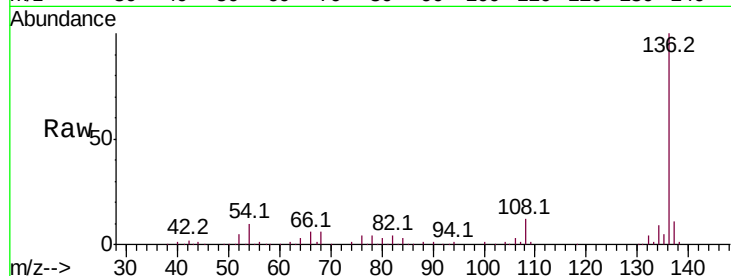




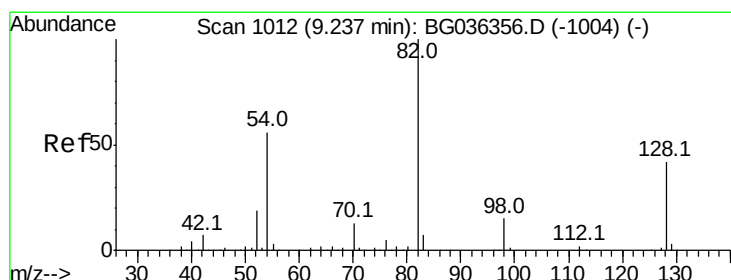
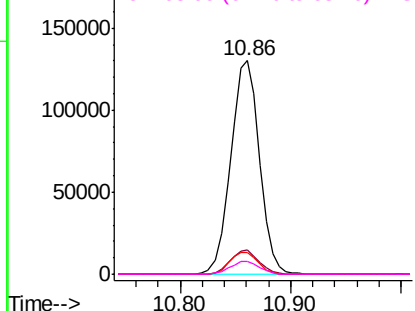
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 236733 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.8   | 13.2   |
| 54       | 10.1  | 9.2   | 13.8   |
| 68       | 6.3   | 5.8   | 8.6    |

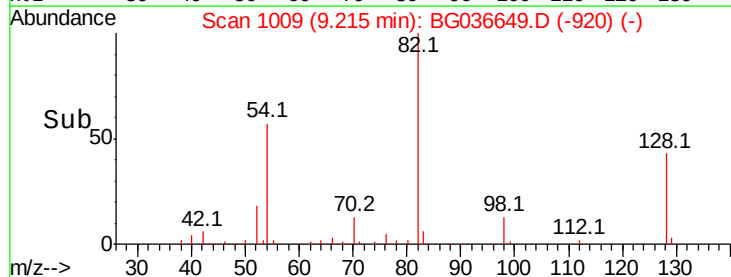
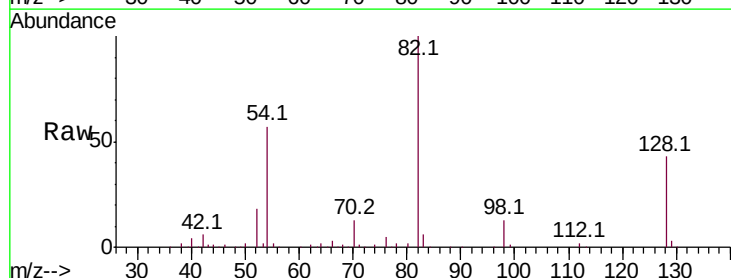


Abundance Ion 136.00 (135.70 to 136.70): E  
200000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

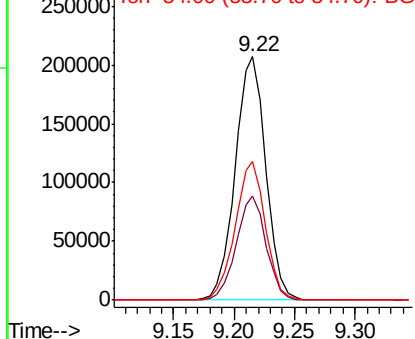


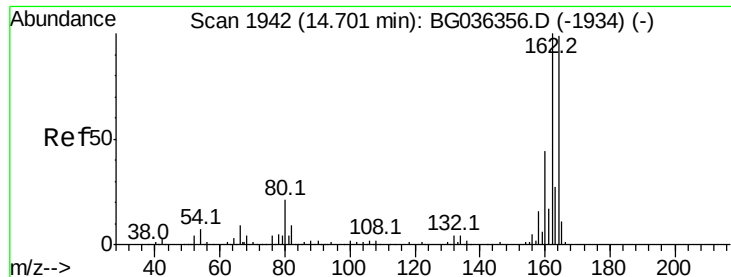
#23  
Nitrobenzene-d5  
Concen: 83.809 ng  
RT: 9.22 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 365676 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.9  | 33.3  | 49.9   |
| 54       | 57.0  | 45.1  | 67.7   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
250000  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC

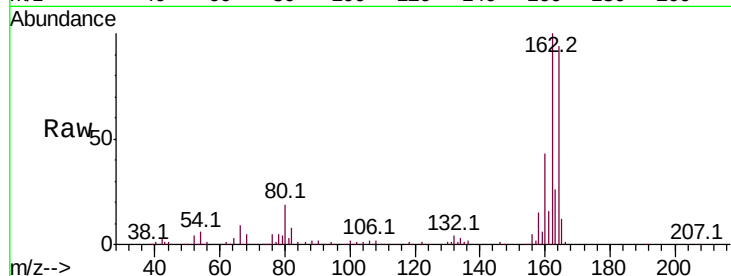




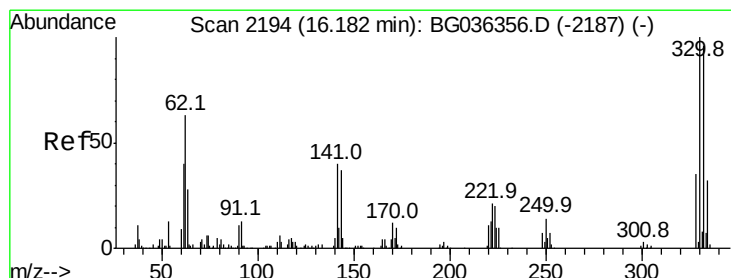
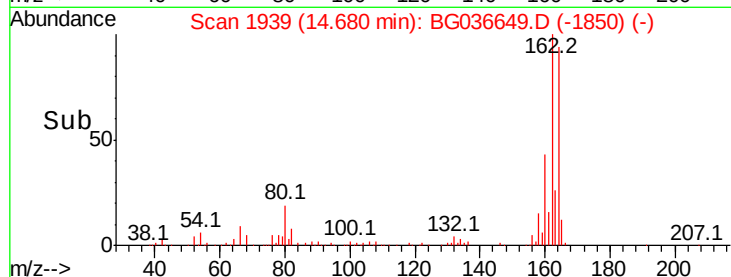
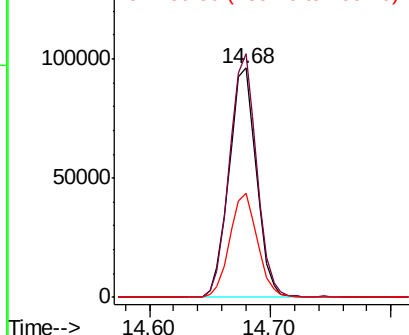
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.68 min Scan# 1939  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:164 Resp: 152745  
 Ion Ratio Lower Upper  
 164 100  
 162 106.2 80.7 121.1  
 160 45.2 35.3 52.9

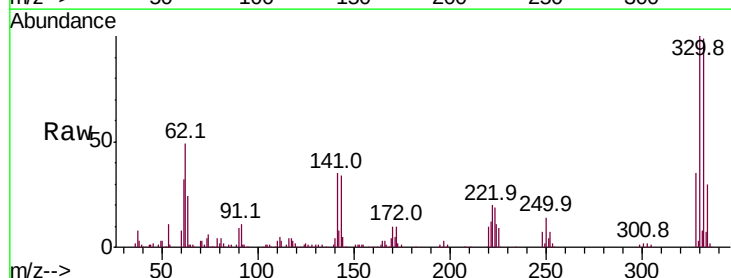


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

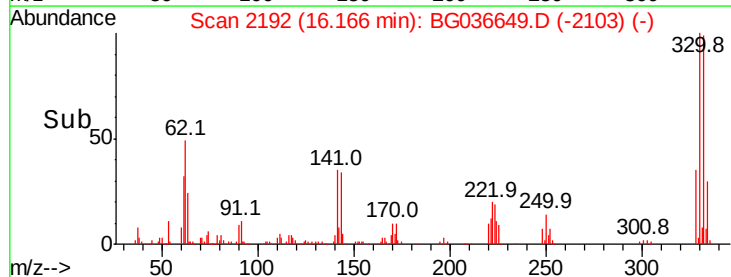
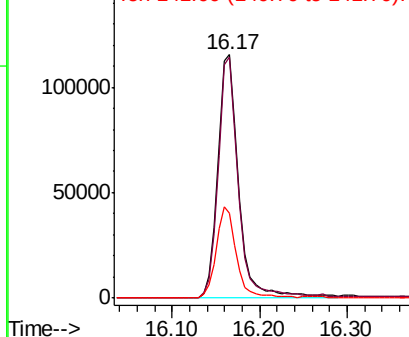


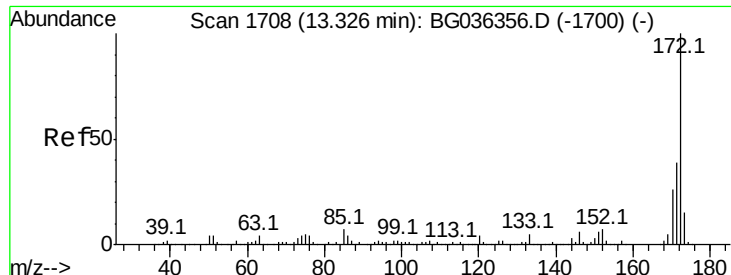
#41  
 2,4,6-Tribromophenol  
 Concen: 105.933 ng  
 RT: 16.17 min Scan# 2192  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

Tgt Ion:330 Resp: 193072  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 75.4 113.2  
 141 35.7 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

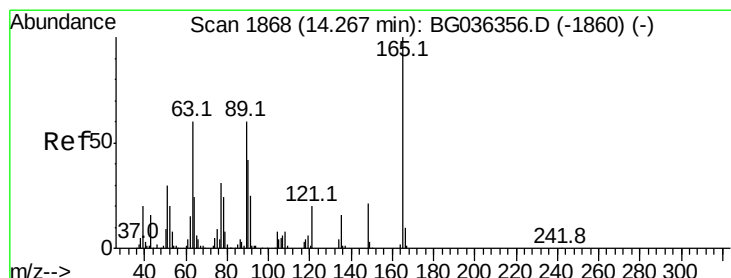
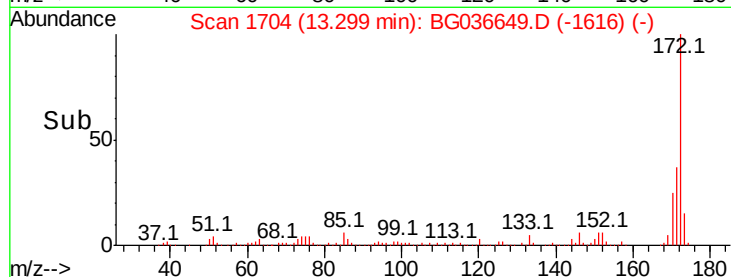
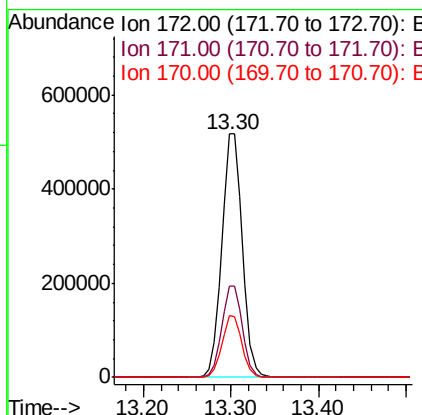
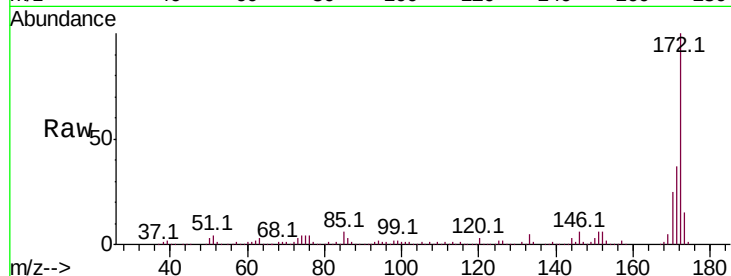




#44  
 2-Fluorobiphenyl  
 Concen: 78.561 ng  
 RT: 13.30 min Scan# 1704  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

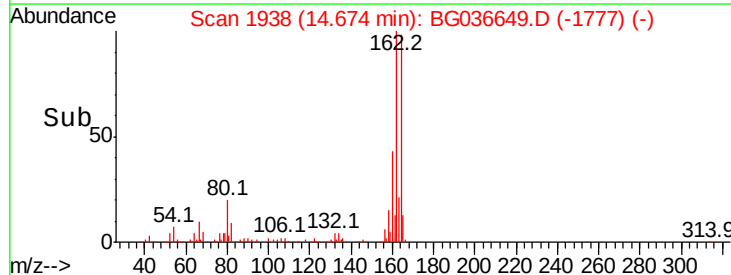
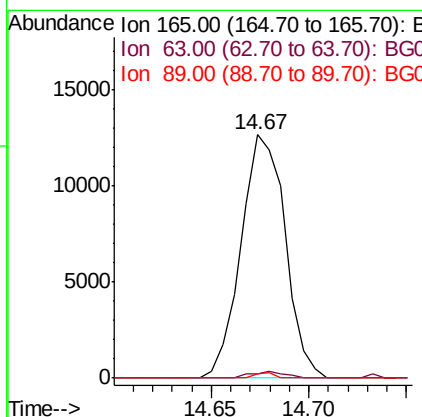
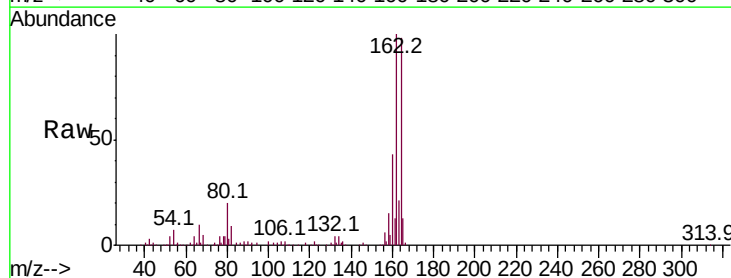
Instrument :  
 BNA\_G  
 ClientSampleId :

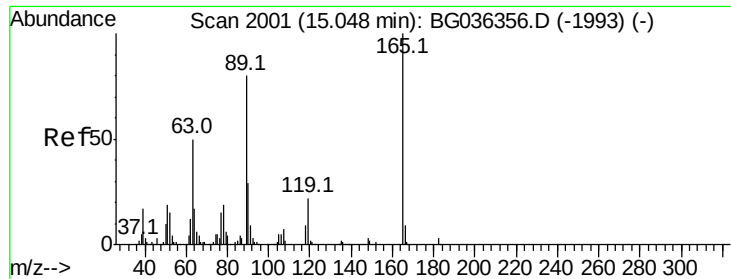
Tot Ion:172 Resp: 840426  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 31.3 46.9  
 170 25.5 21.0 31.6



#50  
 2,6-Dinitrotoluene  
 Concen: 7.700 ng  
 RT: 14.67 min Scan# 1938  
 Delta R.T. 0.42 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

Tgt Ion:165 Resp: 19762  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 50.1 75.1#  
 89 1.6 47.8 71.6#

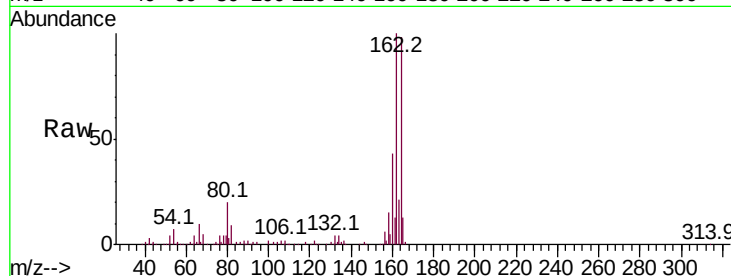




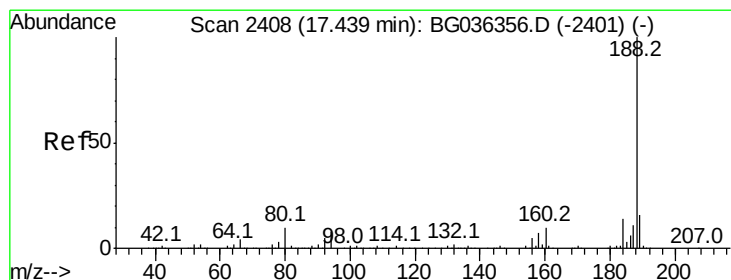
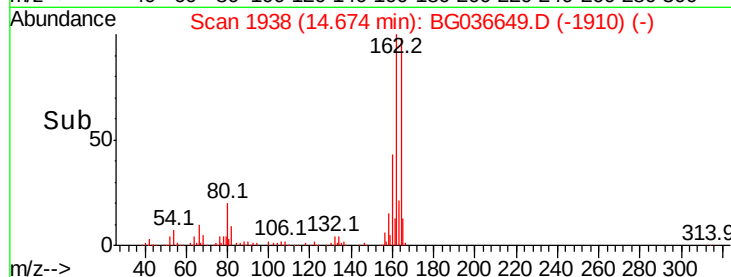
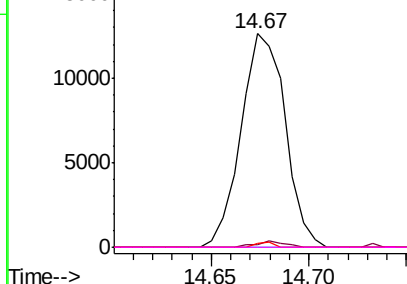
#56  
2,4-Dinitrotoluene  
Concen: 5.908 ng  
RT: 14.67 min Scan# 1938  
Delta R.T. -0.36 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 19762  
Ion Ratio Lower Upper  
165 100  
63 1.5 40.1 60.1#  
89 1.6 63.7 95.5#  
182 0.0 2.5 3.7#

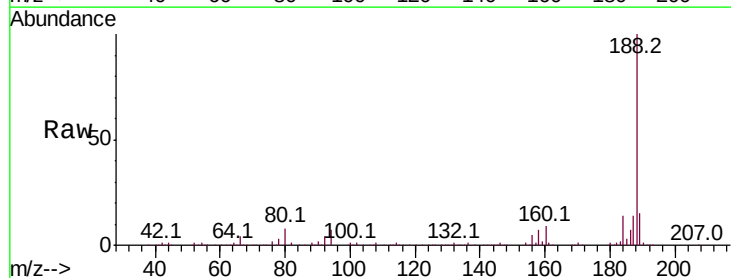


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

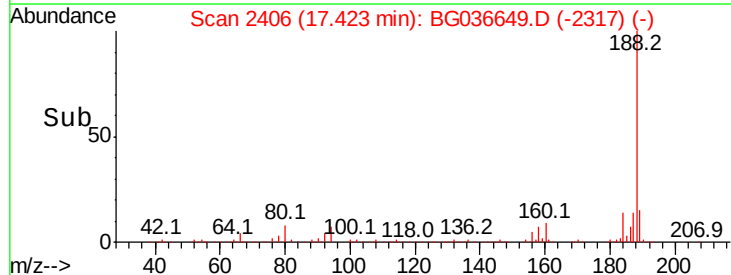
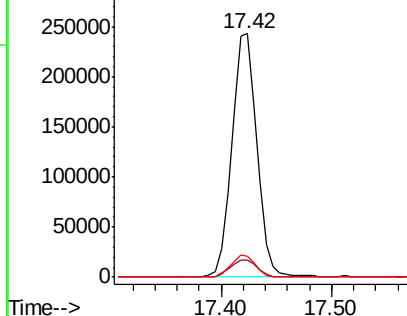


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2406  
Delta R.T. -0.01 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

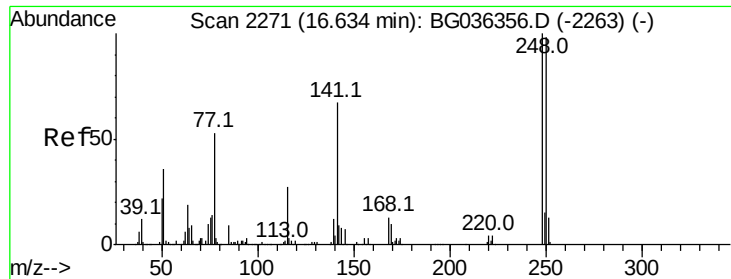
Tgt Ion:188 Resp: 386888  
Ion Ratio Lower Upper  
188 100  
94 7.1 6.7 10.1  
80 8.3 8.1 12.1



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



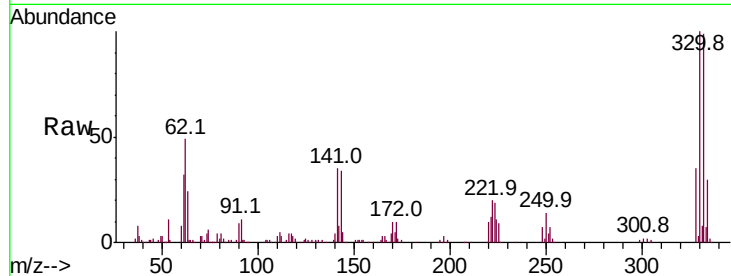




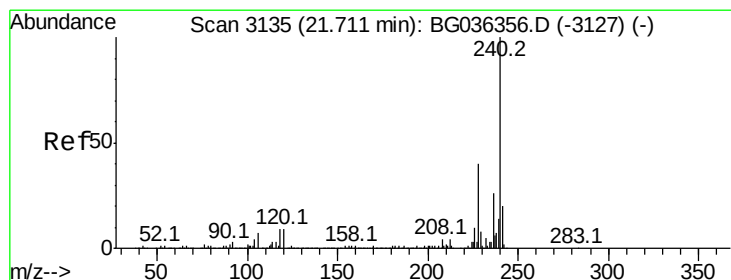
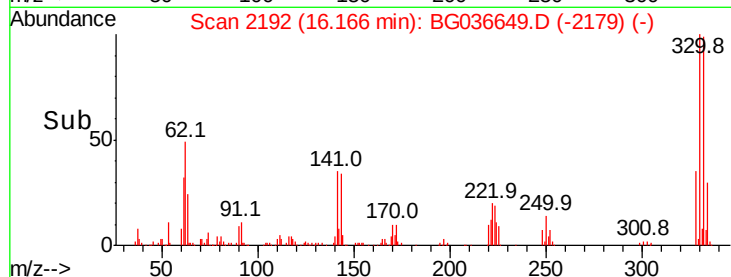
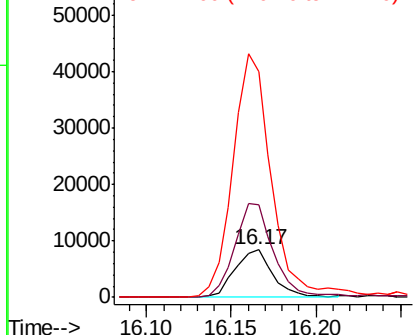
#66  
4-Bromophenyl-phenylether  
Concen: 2.934 ng  
RT: 16.17 min Scan# 2192  
Delta R.T. -0.45 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 13288  
Ion Ratio Lower Upper  
248 100  
250 196.9 78.1 117.1#  
141 477.9 53.7 80.5#

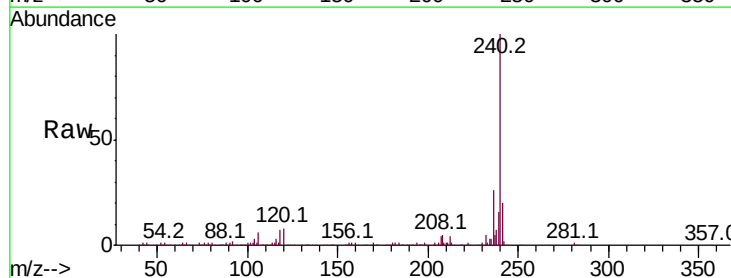


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

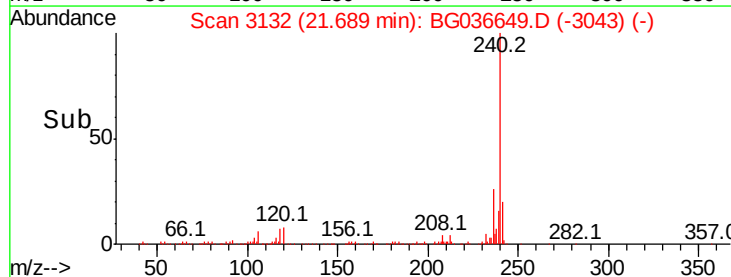
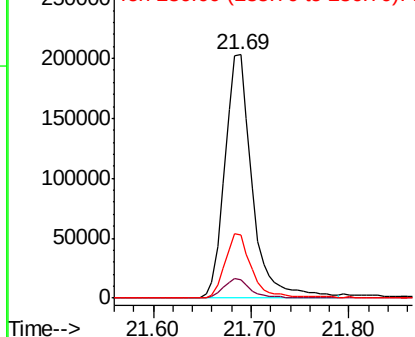


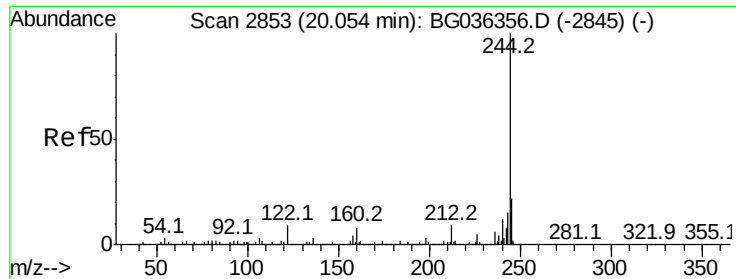
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3132  
Delta R.T. -0.01 min  
Lab File: BG036649.D  
Acq: 11 Sep 2018 6:42

Tgt Ion:240 Resp: 397474  
Ion Ratio Lower Upper  
240 100  
120 7.7 6.9 10.3  
236 26.2 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



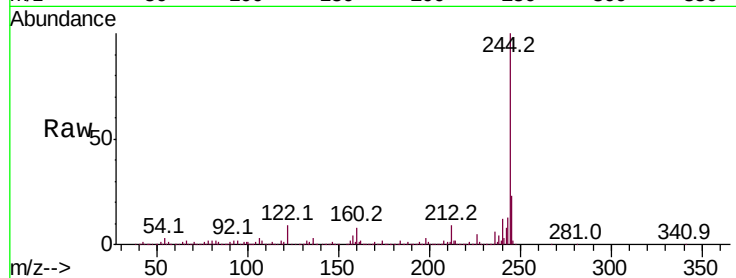


#78  
 Terphenyl-d14  
 Concen: 85.474 ng  
 RT: 20.03 min Scan# 2849  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

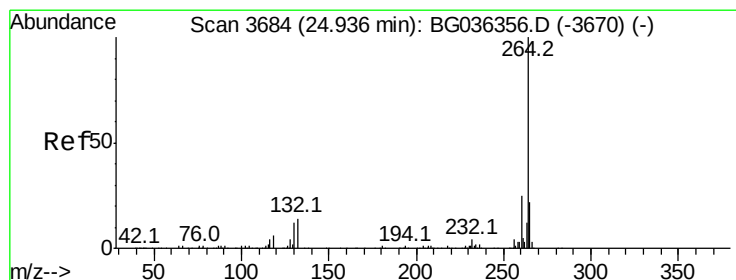
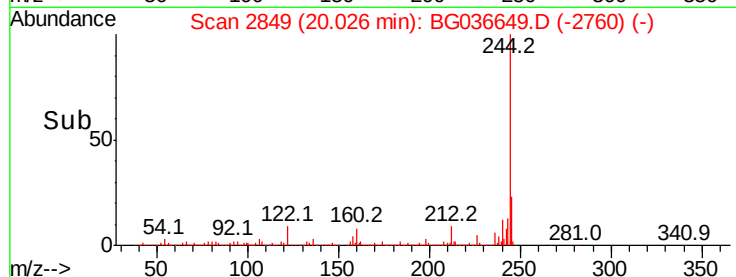
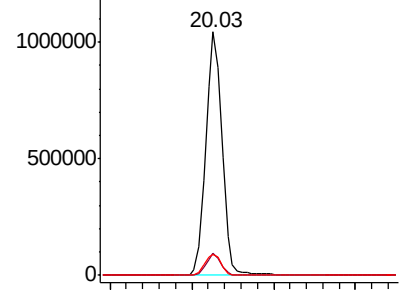
Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1453522

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.1   | 7.0   | 10.6  |
| 122 | 8.8   | 7.1   | 10.7  |



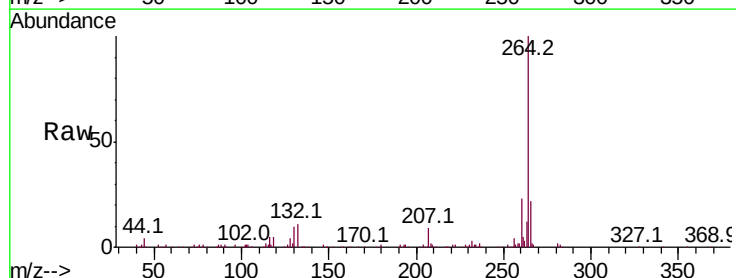
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.90 min Scan# 3678  
 Delta R.T. -0.01 min  
 Lab File: BG036649.D  
 Acq: 11 Sep 2018 6:42

Tgt Ion:264 Resp: 302163

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.8  | 19.6  | 29.4  |
| 265 | 21.9  | 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

