

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012219\  
 Data File : BG039250.D  
 Acq On : 22 Jan 2019 13:00  
 Operator : JU/SJ  
 Sample : K1013-08RE  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 22 13:44:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 18 04:20:14 2019  
 Response via : Initial Calibration

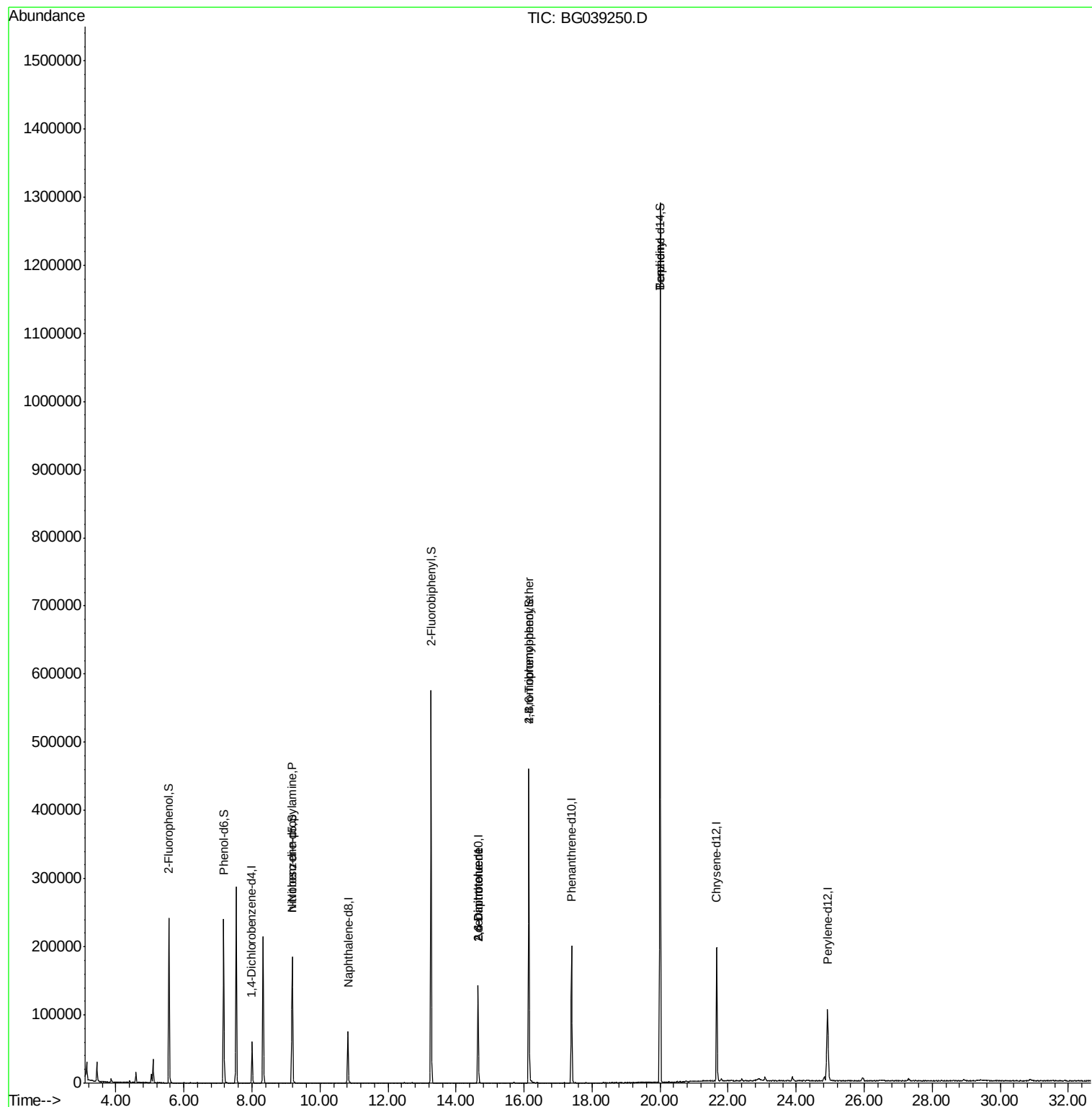
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 18219    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.82 | 136  | 67593    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.65 | 164  | 52080    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.40 | 188  | 136140   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.66 | 240  | 136990   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.92 | 264  | 138898   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 110107   | 114.64 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.17  | 99   | 139827   | 101.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.18  | 82   | 116687   | 94.46  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.14 | 330  | 105840   | 121.24 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.27 | 172  | 317296   | 83.38  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.00 | 244  | 633028   | 85.48  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 15274    | 16.828 | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 14.65 | 165  | 6554     | 6.661  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.65 | 165  | 6554     | 4.643  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 6770     | 3.869  | ng    | # 1      |
| 77) Benzidine                  | 20.00 | 184  | 10048    | 2.398  | ng    | # 95     |

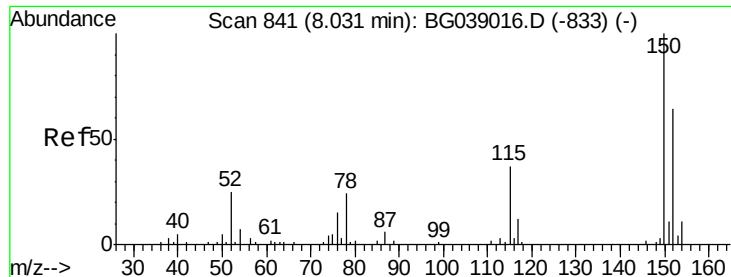
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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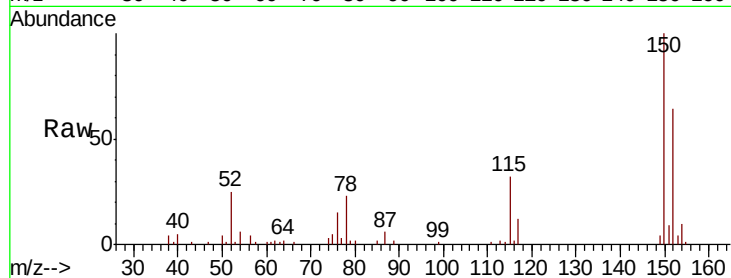


#1

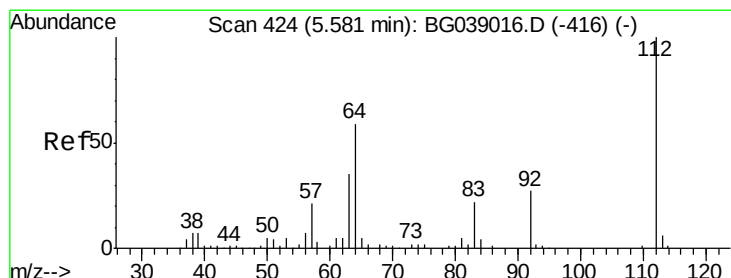
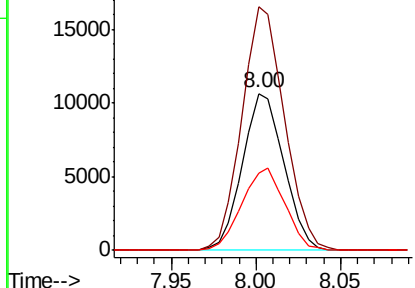
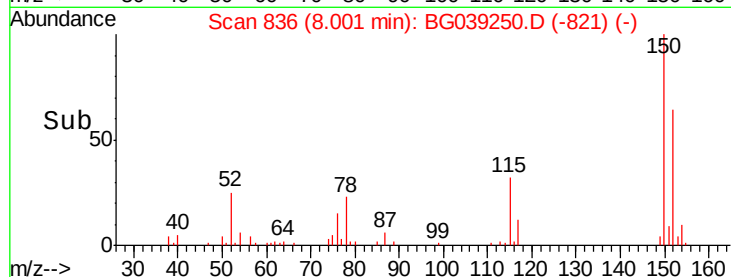
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BG039250.D  
Acq: 22 Jan 2019 13:00

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 18219  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.7 187.1  
115 48.9 46.5 69.7



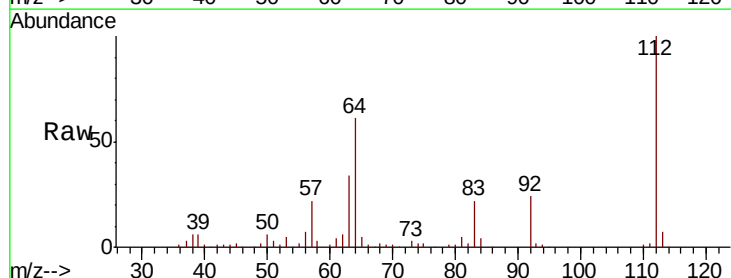
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



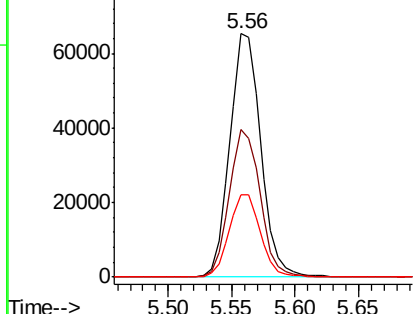
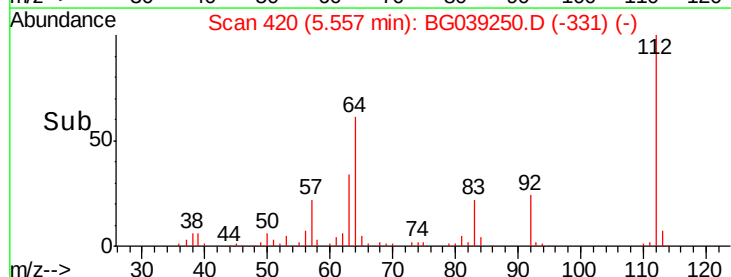
#5

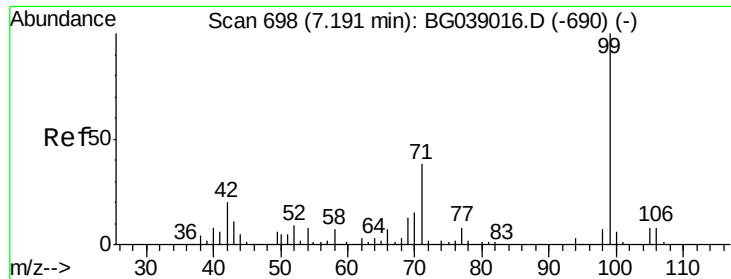
2-Fluorophenol  
Concen: 114.645 ng  
RT: 5.56 min Scan# 420  
Delta R.T. -0.01 min  
Lab File: BG039250.D  
Acq: 22 Jan 2019 13:00

Tgt Ion:112 Resp: 110107  
Ion Ratio Lower Upper  
112 100  
64 60.7 47.0 70.6  
63 33.9 28.0 42.0



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: 101.165 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

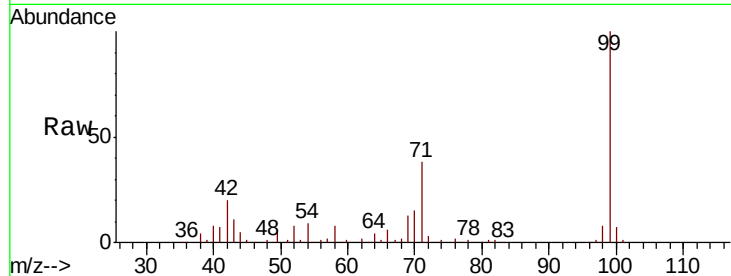
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 139827

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.8  | 15.8  | 23.6  |
| 71  | 38.3  | 30.2  | 45.4  |

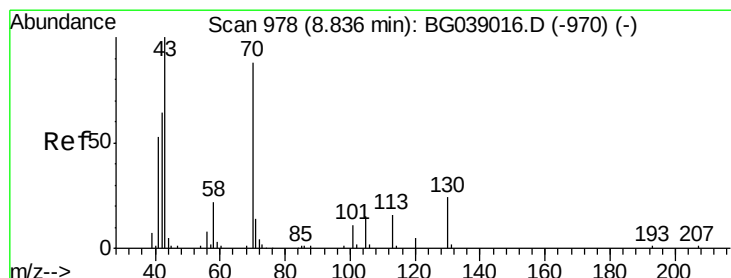
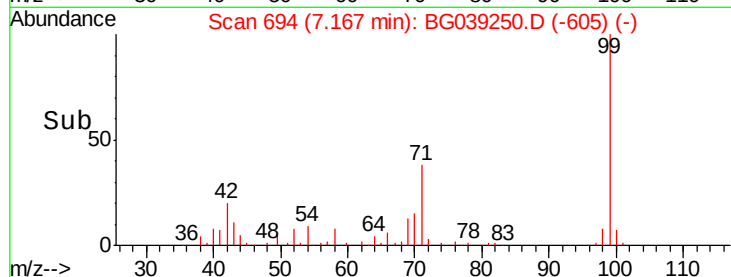
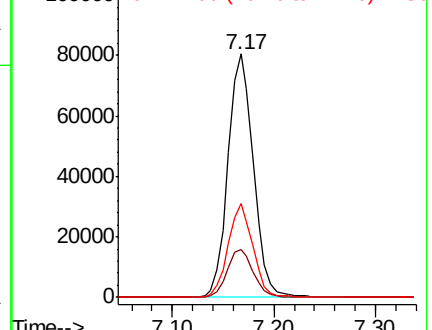


Abundance

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: 16.828 ng

RT: 9.18 min Scan# 1037

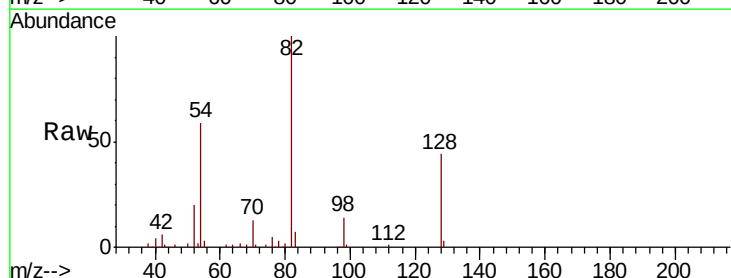
Delta R.T. 0.36 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

Tgt Ion: 70 Resp: 15274

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 46.2  | 59.0  | 88.4# |
| 101 | 0.0   | 10.4  | 15.6# |
| 130 | 0.0   | 21.6  | 32.4# |



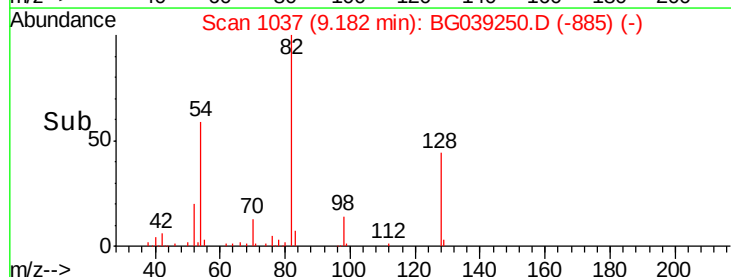
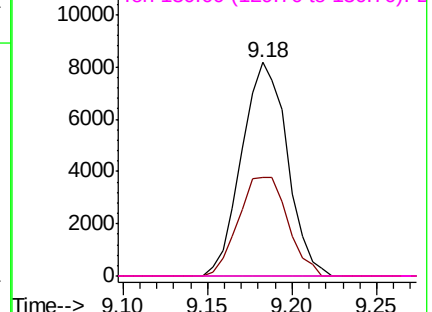
Abundance

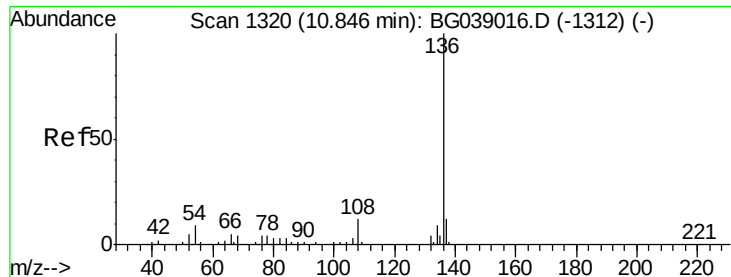
Ion 70.00 (69.70 to 70.70): BGC

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

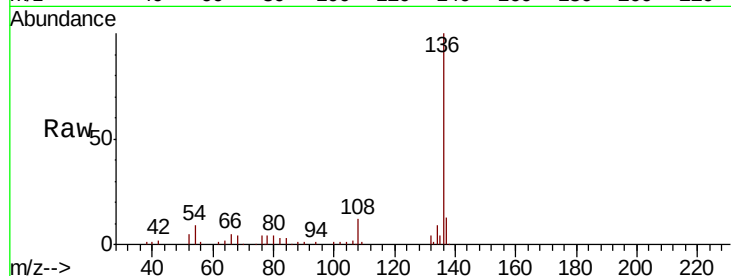




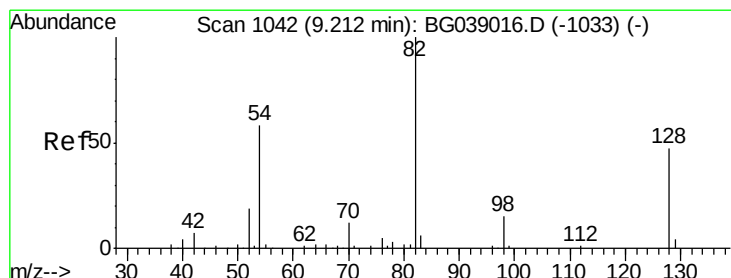
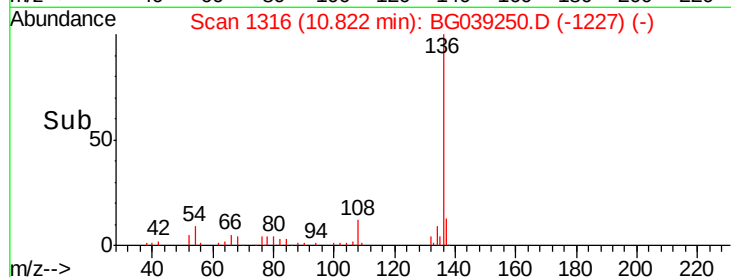
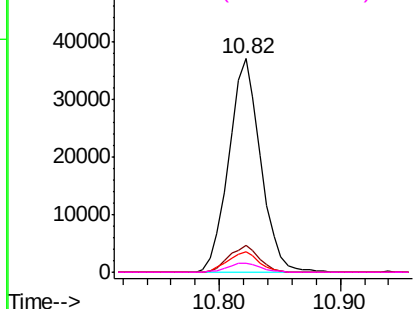
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BG039250.D  
Acq: 22 Jan 2019 13:00

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 67593       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.6  | 9.4 14.2    |
| 54          | 9.3   | 7.2 10.8    |
| 68          | 4.0   | 3.5 5.3     |

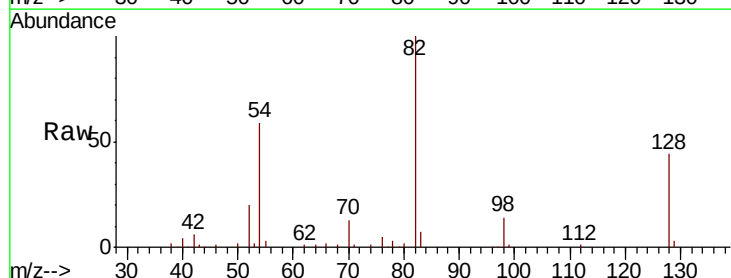


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

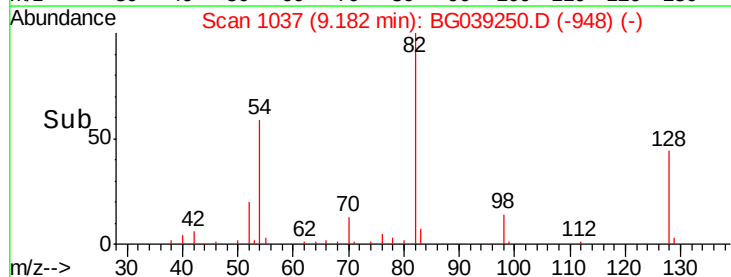
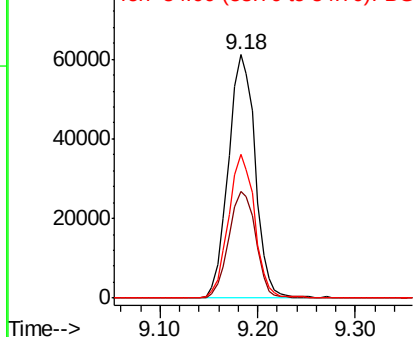


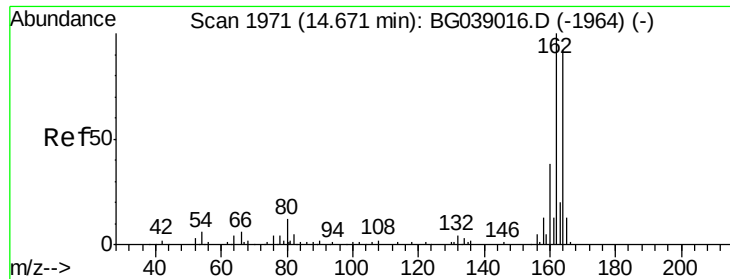
#23  
Nitrobenzene-d5  
Concen: 94.463 ng  
RT: 9.18 min Scan# 1037  
Delta R.T. -0.01 min  
Lab File: BG039250.D  
Acq: 22 Jan 2019 13:00

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 116687      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 43.7  | 37.3 55.9   |
| 54          | 59.0  | 46.4 69.6   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.65 min Scan# 1967

Delta R.T. -0.01 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

Instrument :

BNA\_F

ClientSampleId :

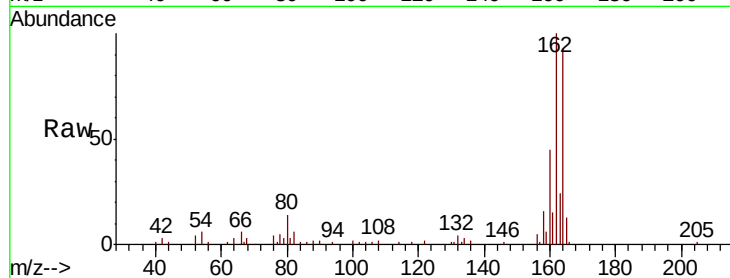
Tot Ion:164 Resp: 52080

Ion Ratio Lower Upper

164 100

162 107.0 87.2 130.8

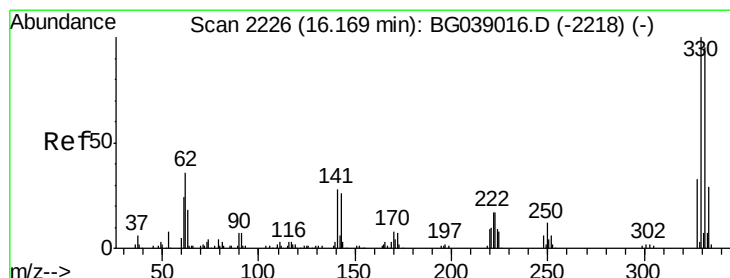
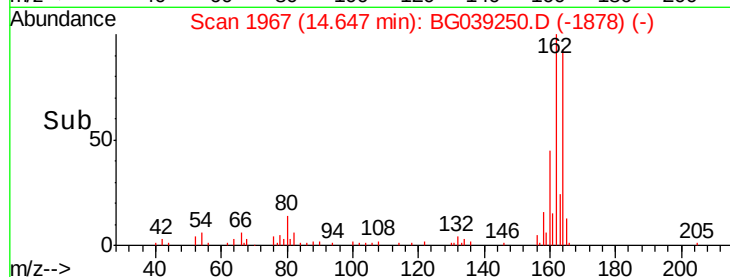
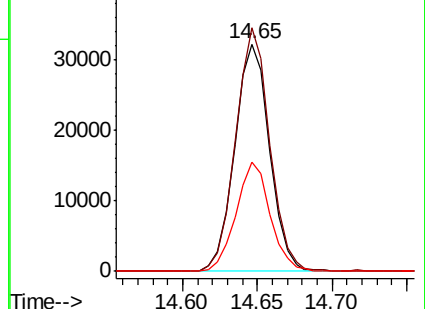
160 48.0 33.3 49.9



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



#42

2,4,6-Tribromophenol

Concen: 121.236 ng

RT: 16.14 min Scan# 2221

Delta R.T. -0.01 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

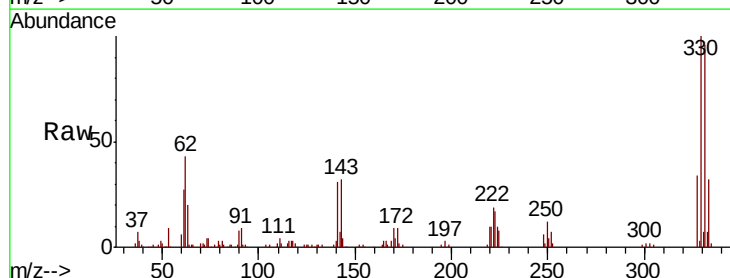
Tgt Ion:330 Resp: 105840

Ion Ratio Lower Upper

330 100

332 95.1 75.7 113.5

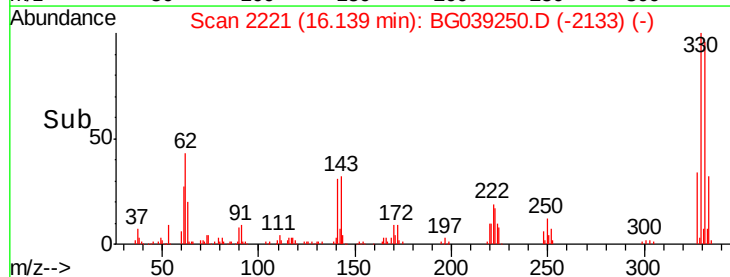
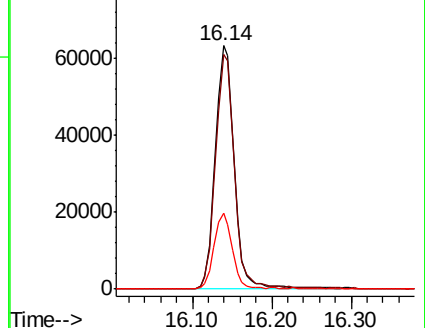
141 30.4 24.9 37.3

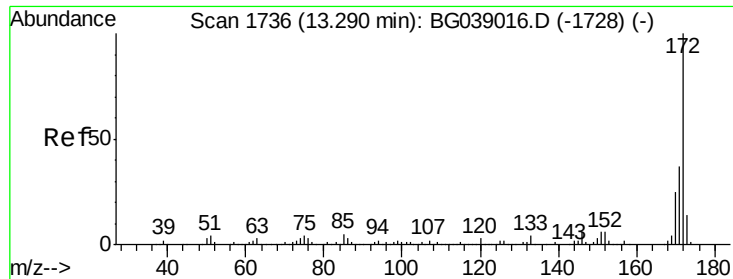


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

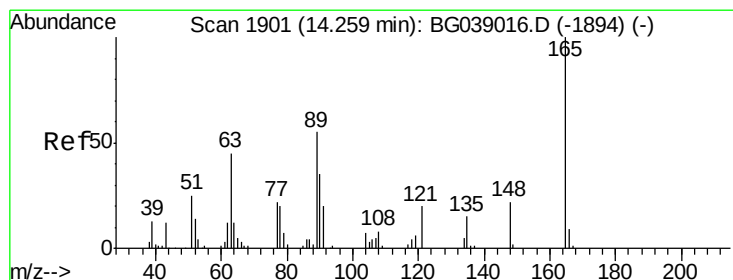
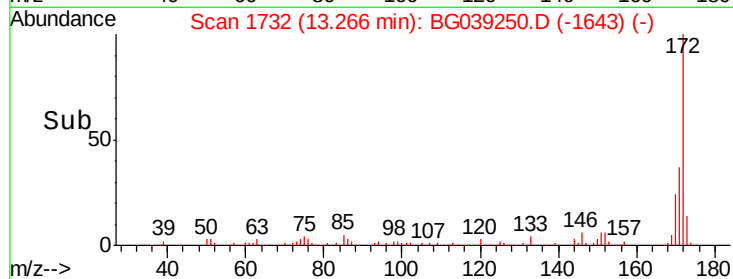
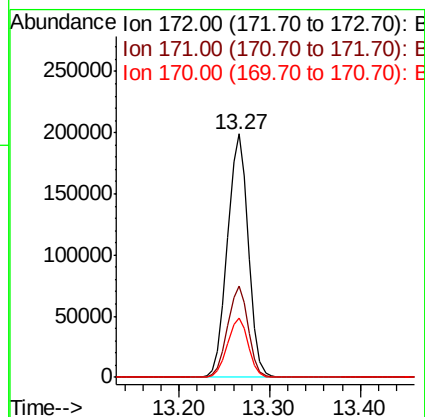
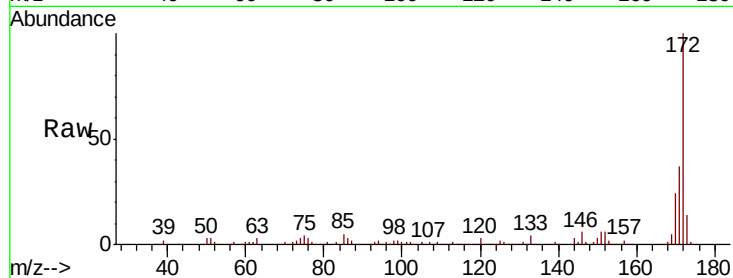




#45  
 2-Fluorobiphenyl  
 Concen: 83.379 ng  
 RT: 13.27 min Scan# 1732  
 Delta R.T. -0.01 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

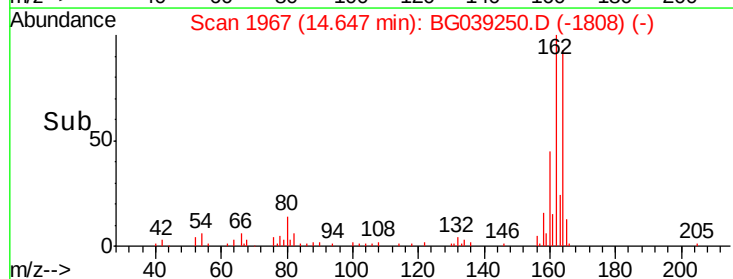
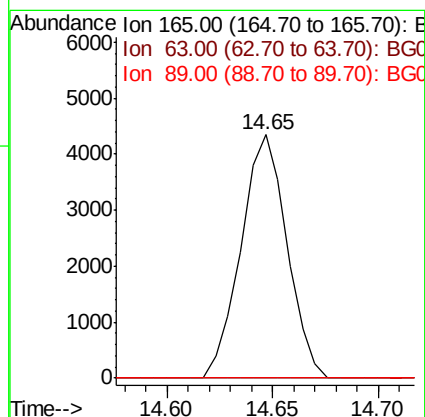
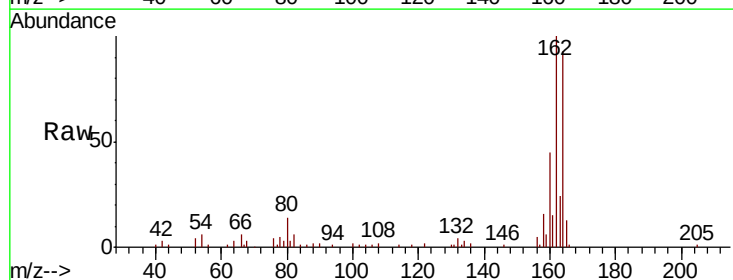
Instrument :  
 BNA\_F  
 ClientSampled :

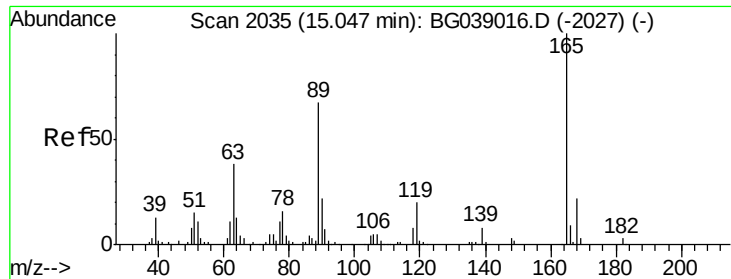
Tot Ion:172 Resp: 317296  
 Ion Ratio Lower Upper  
 172 100  
 171 37.5 29.4 44.0  
 170 24.3 20.1 30.1



#51  
 2,6-Dinitrotoluene  
 Concen: 6.661 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. 0.40 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

Tgt Ion:165 Resp: 6554  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.6 65.4#  
 89 0.0 43.7 65.5#

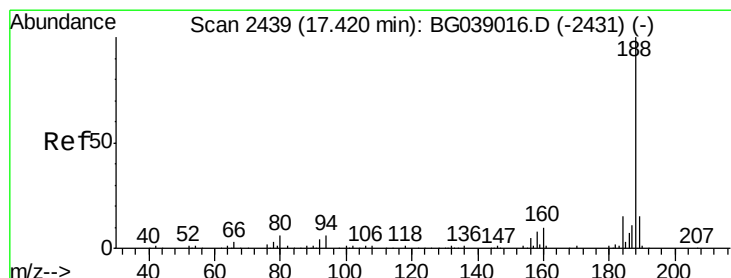
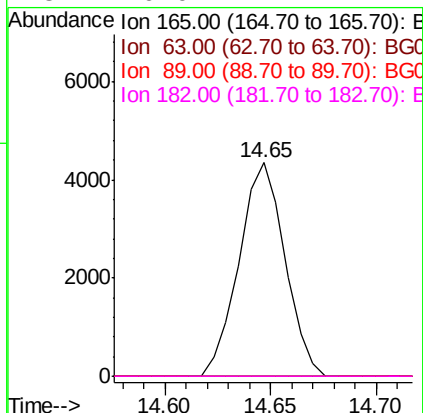
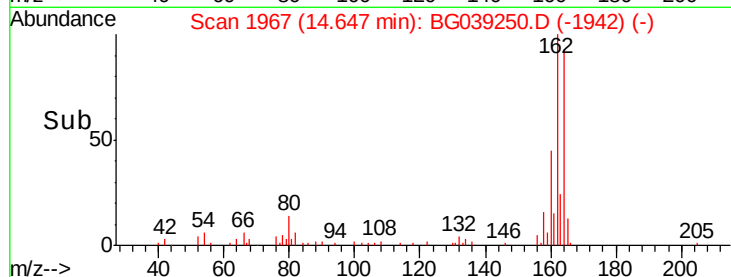
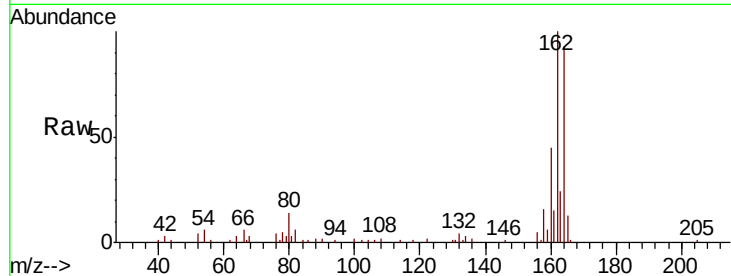




#57  
 2,4-Dinitrotoluene  
 Concen: 4.643 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. -0.38 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

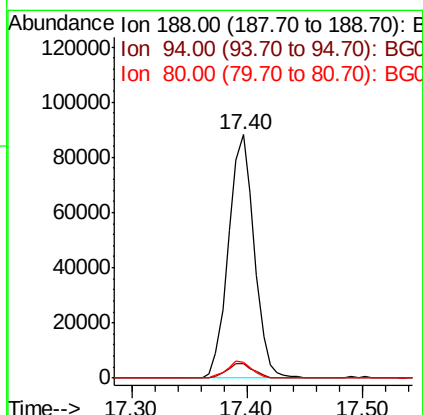
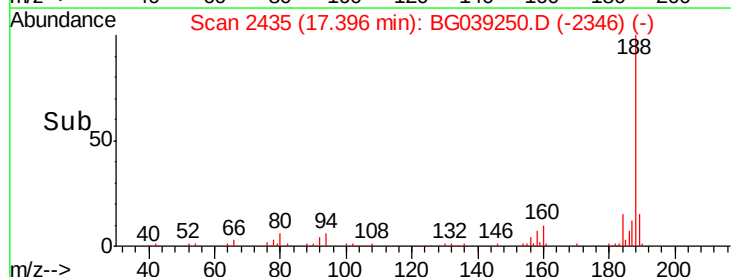
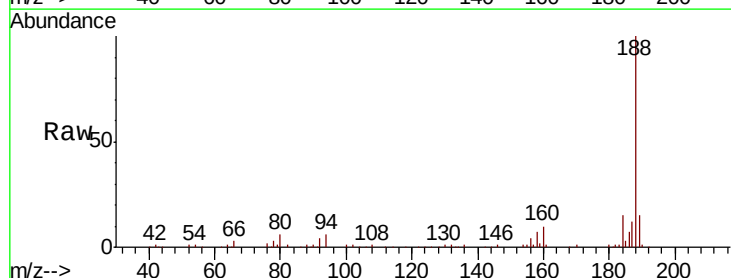
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 6554  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 30.2 45.4#  
 89 0.0 53.2 79.8#  
 182 0.0 2.7 4.1#

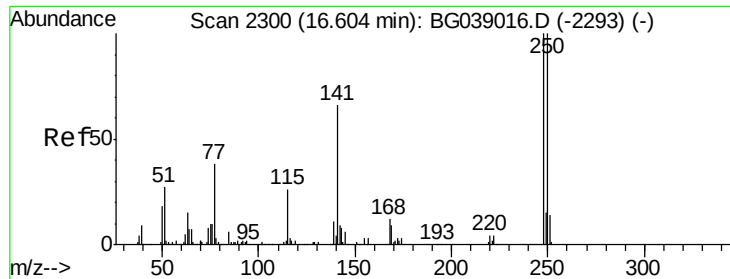


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.40 min Scan# 2435  
 Delta R.T. -0.01 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

Tgt Ion:188 Resp: 136140  
 Ion Ratio Lower Upper  
 188 100  
 94 6.0 5.0 7.4  
 80 6.4 4.7 7.1



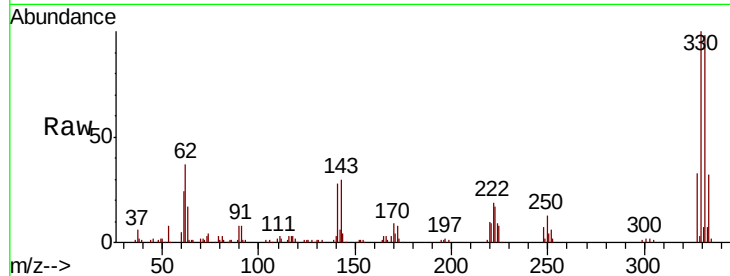




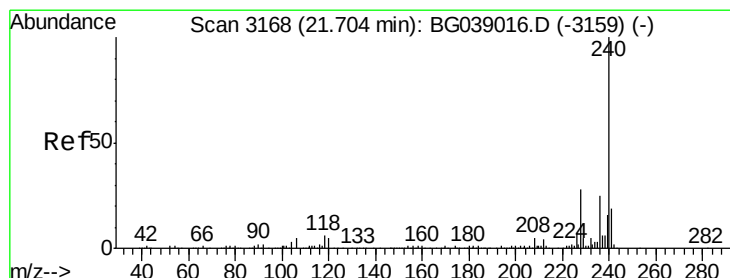
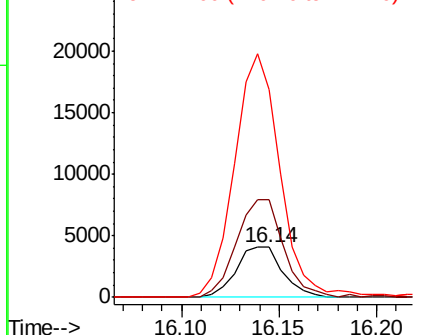
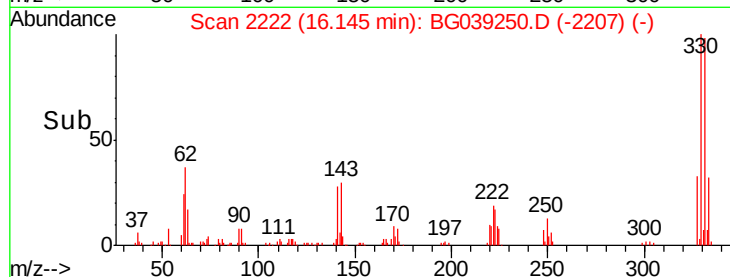
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.869 ng  
 RT: 16.14 min Scan# 2222  
 Delta R.T. -0.44 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 6770  
 Ion Ratio Lower Upper  
 248 100  
 250 191.1 79.9 119.9#  
 141 315.5 52.7 79.1#

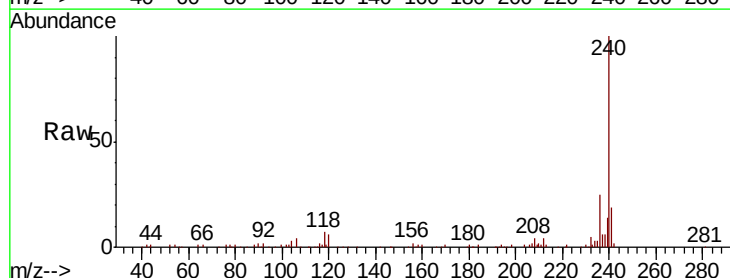


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

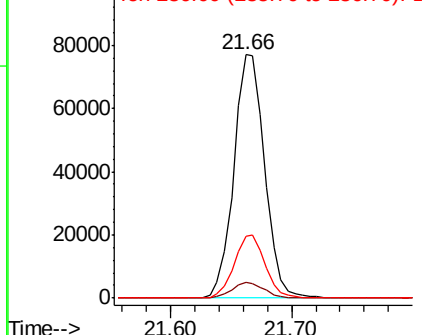
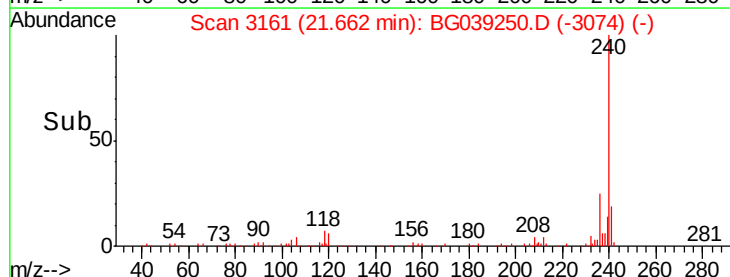


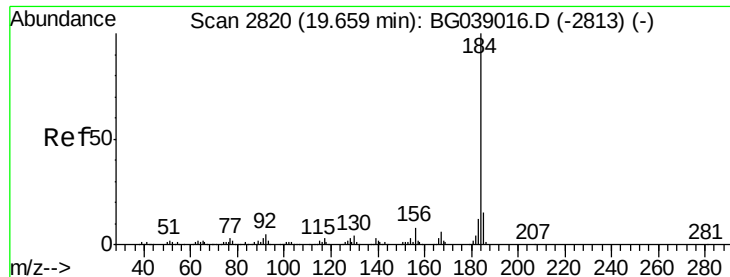
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.66 min Scan# 3161  
 Delta R.T. -0.02 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

Tgt Ion:240 Resp: 136990  
 Ion Ratio Lower Upper  
 240 100  
 120 6.3 4.3 6.5  
 236 25.4 20.1 30.1



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





#77

Benzidine

Concen: 2.398 ng

RT: 20.00 min Scan# 2878

Delta R.T. 0.36 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

Instrument :

BNA\_F

ClientSampled :

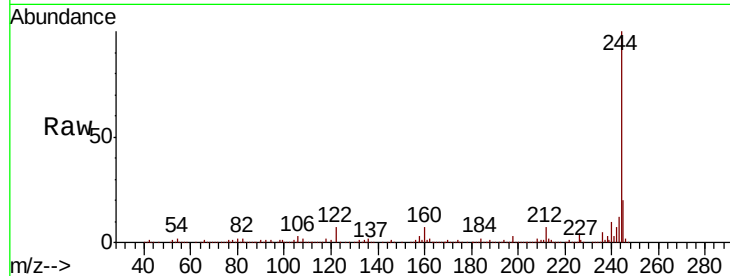
Tot Ion:184 Resp: 10048

Ion Ratio Lower Upper

184 100

185 13.7 12.1 18.1

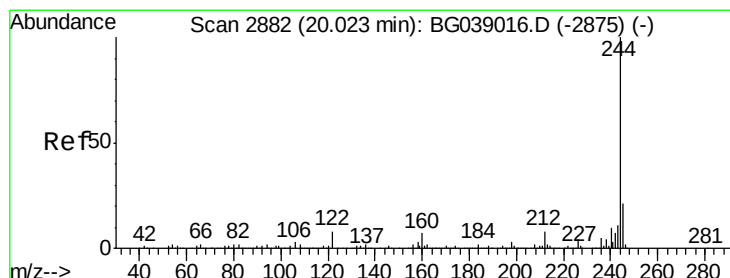
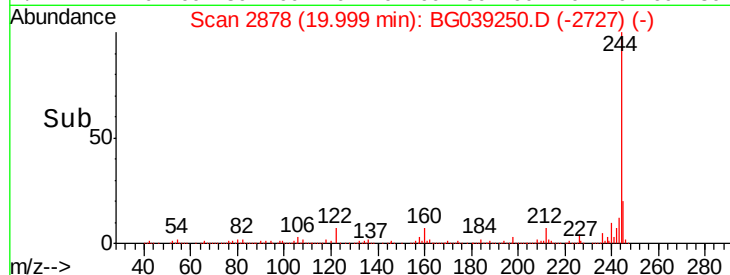
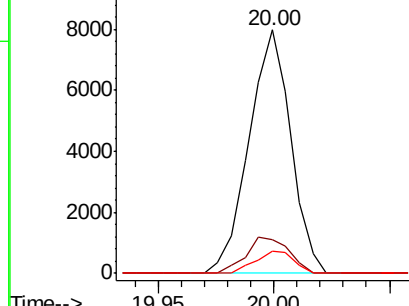
183 9.3 9.5 14.3#



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



#79

Terphenyl-d14

Concen: 85.483 ng

RT: 20.00 min Scan# 2878

Delta R.T. -0.01 min

Lab File: BG039250.D

Acq: 22 Jan 2019 13:00

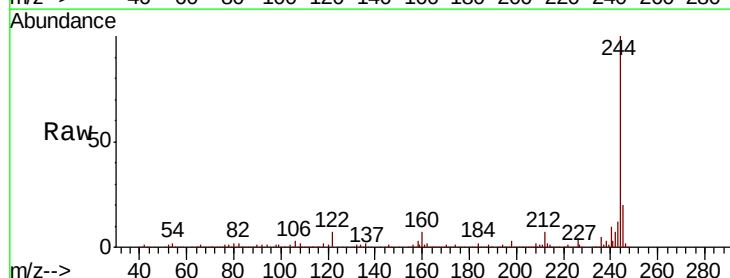
Tgt Ion:244 Resp: 633028

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

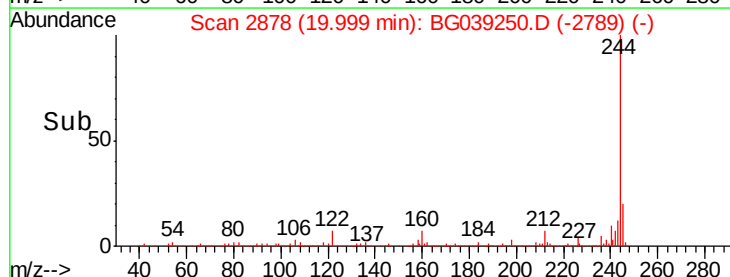
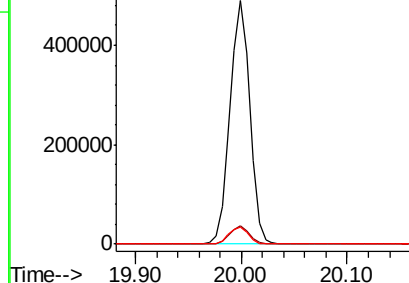
122 7.1 6.1 9.1

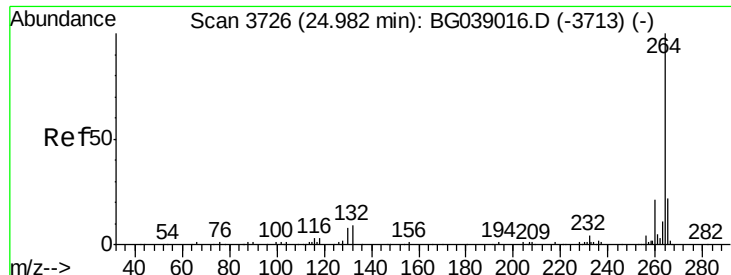


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.92 min Scan# 3716  
 Delta R.T. -0.03 min  
 Lab File: BG039250.D  
 Acq: 22 Jan 2019 13:00

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 138898 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.5  | 17.0  | 25.6   |
| 265      | 21.7  | 17.2  | 25.8   |

