

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG112018\  
 Data File : BG038111.D  
 Acq On : 21 Nov 2018 9:12  
 Operator : JU/SJ  
 Sample : J5999-02  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 21 10:37:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG111318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 16:39:28 2018  
 Response via : Initial Calibration

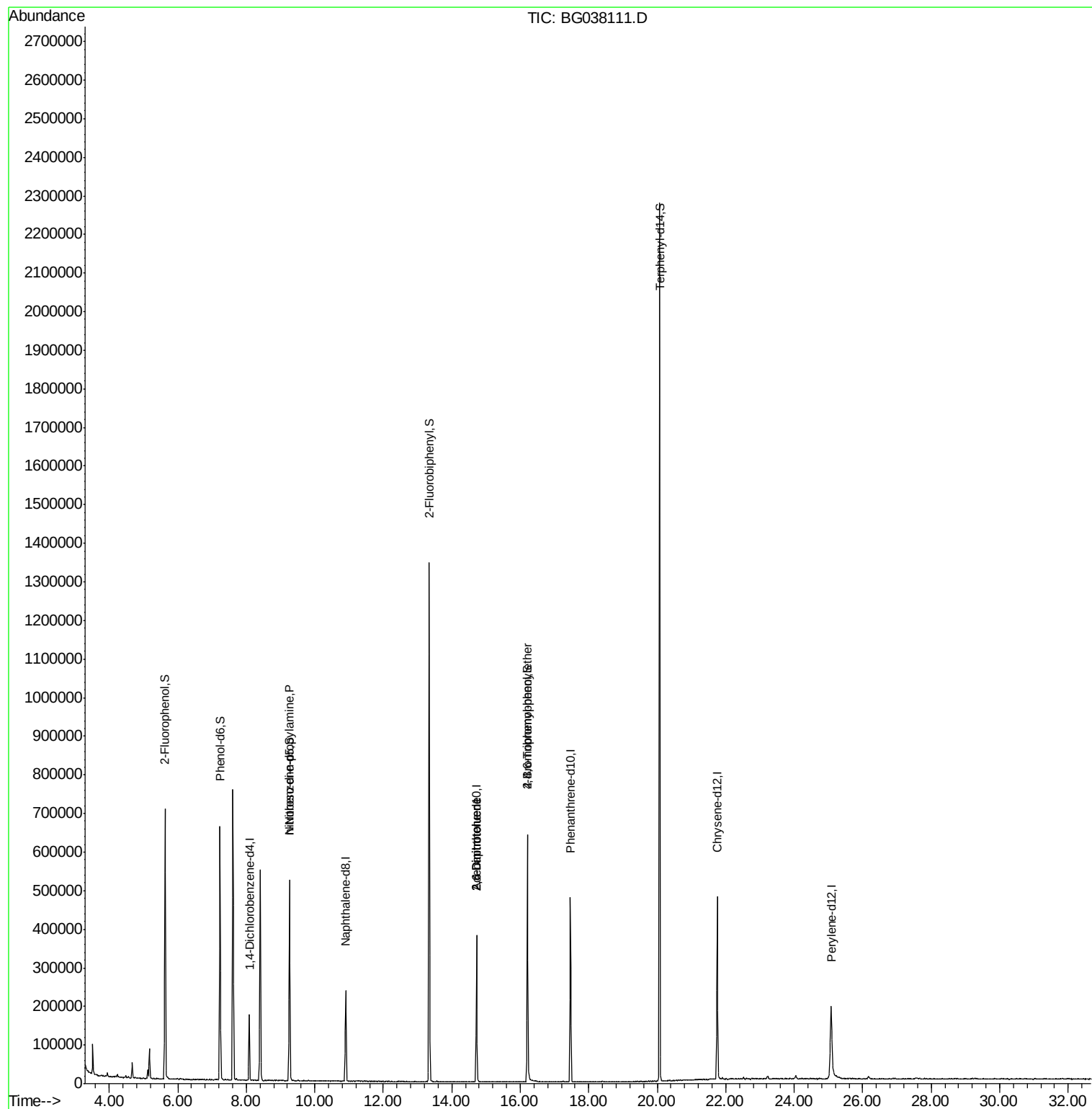
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.09  | 152  | 48764    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.90 | 136  | 215648   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 131248   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.47 | 188  | 301929   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.75 | 240  | 295022   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.08 | 264  | 271655   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 318952   | 112.93 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 415335   | 103.02 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.26  | 82   | 321697   | 79.85  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 121136   | 80.93  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 706669   | 78.44  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.07 | 244  | 1083663  | 86.43  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 41366    | 14.180 | ng    | # 76     |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 17681    | 7.508  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 17681    | 5.518  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 8543     | 2.578  | ng    | # 1      |

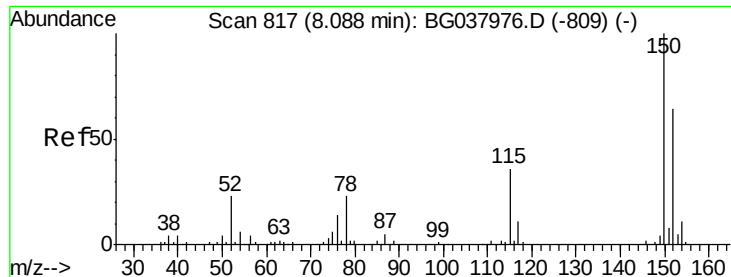
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Nov 21 10:37:42 2018  
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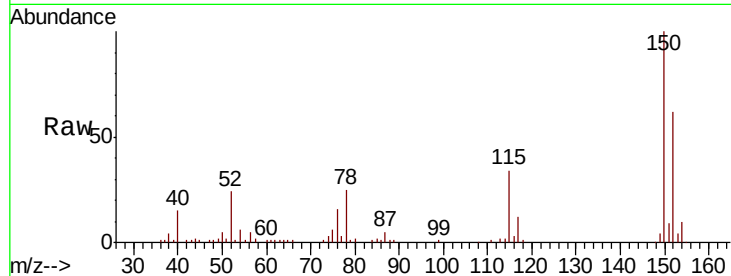


#1

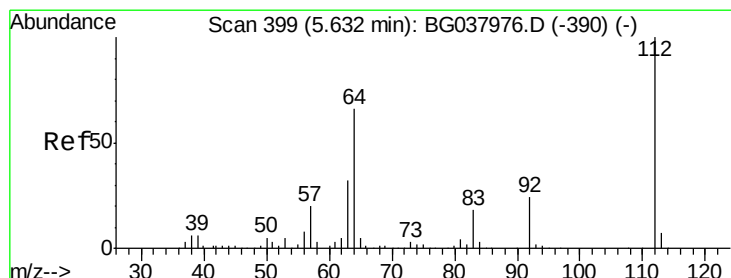
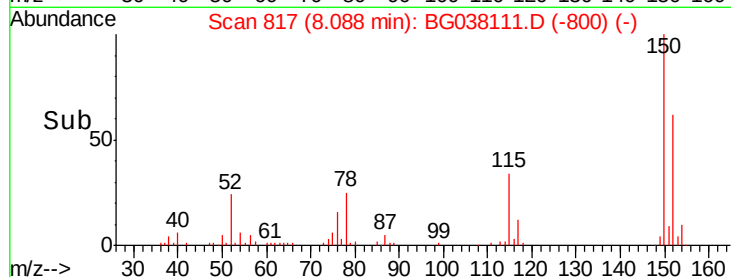
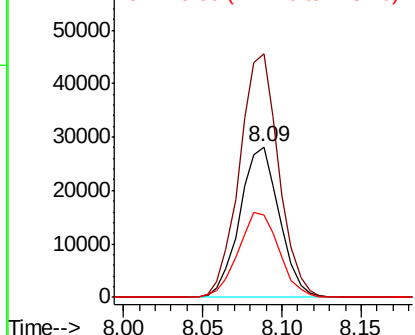
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.09 min Scan# 817  
Delta R.T. -0.00 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 48764  
Ion Ratio Lower Upper  
152 100  
150 161.5 126.0 189.0  
115 54.2 45.5 68.3



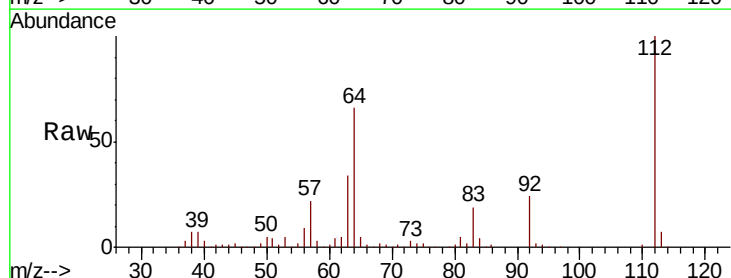
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



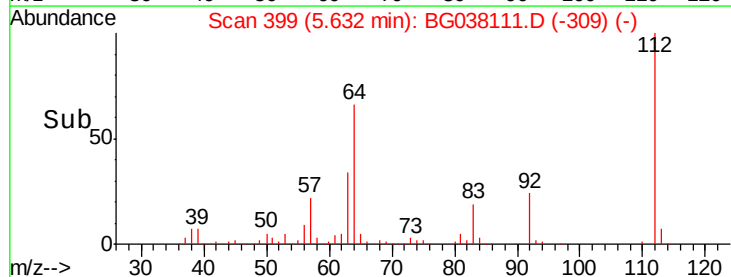
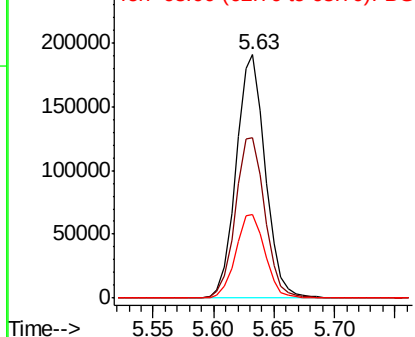
#5

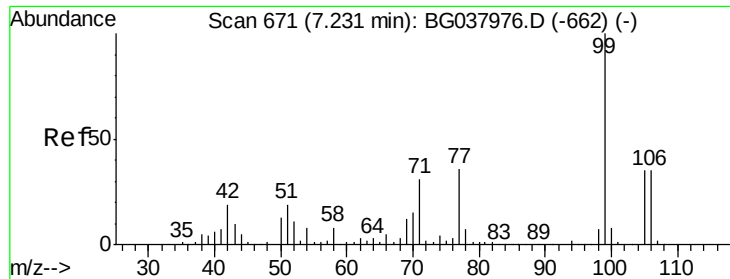
2-Fluorophenol  
Concen: 112.930 ng  
RT: 5.63 min Scan# 399  
Delta R.T. 0.00 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Tgt Ion:112 Resp: 318952  
Ion Ratio Lower Upper  
112 100  
64 65.9 53.1 79.7  
63 34.1 27.3 40.9



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: 103.021 ng

RT: 7.23 min Scan# 671

Delta R.T. -0.00 min

Lab File: BG038111.D

Acq: 21 Nov 2018 9:12

Instrument :

BNA\_G

ClientSampled :

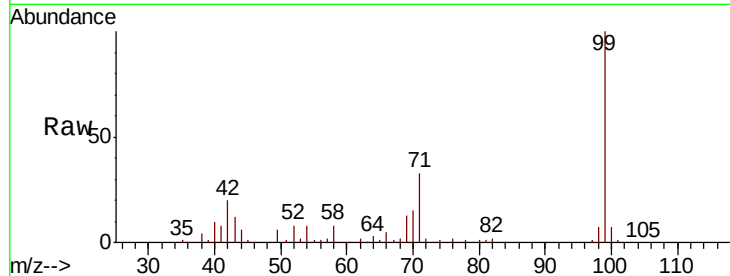
Tot Ion: 99 Resp: 415335

Ion Ratio Lower Upper

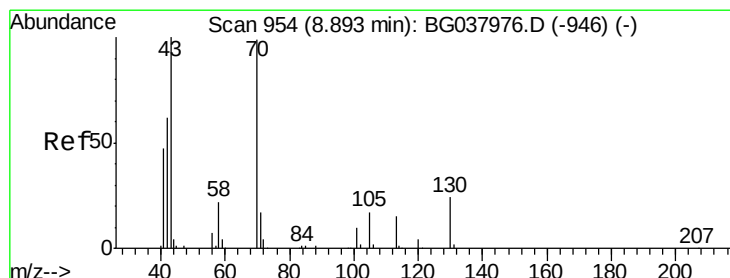
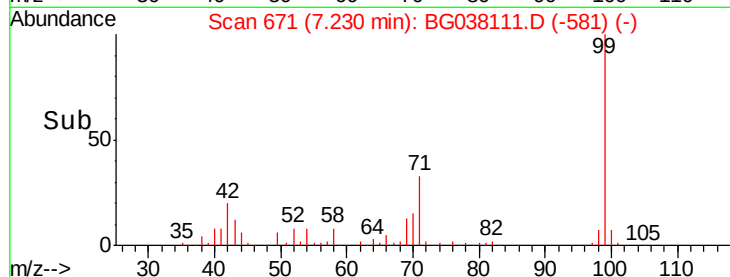
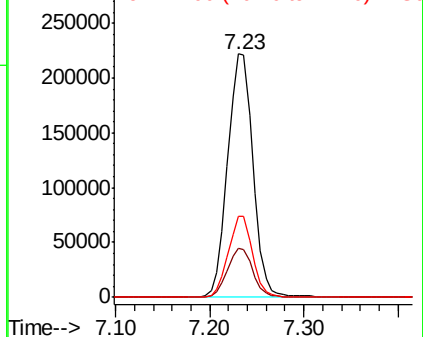
99 100

42 20.2 15.0 22.4

71 33.3 25.5 38.3



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: 14.180 ng

RT: 9.26 min Scan# 1017

Delta R.T. 0.37 min

Lab File: BG038111.D

Acq: 21 Nov 2018 9:12

Tgt Ion: 70 Resp: 41366

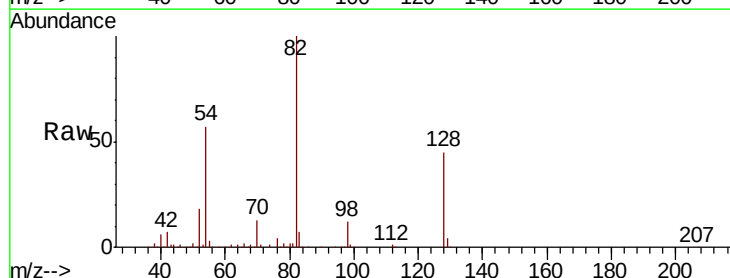
Ion Ratio Lower Upper

70 100

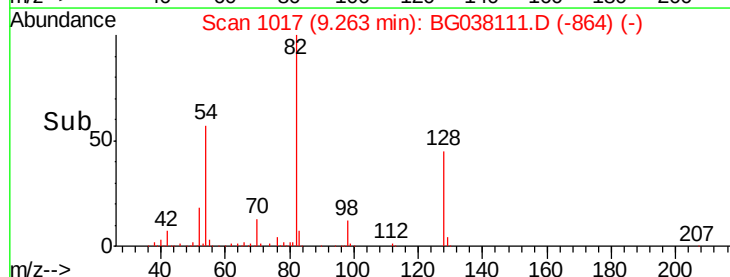
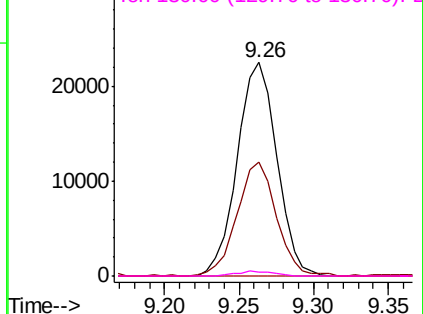
42 53.3 53.9 80.9#

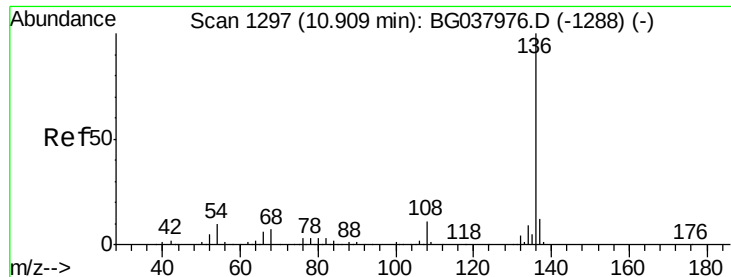
101 0.0 8.2 12.2#

130 1.8 18.2 27.4#



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

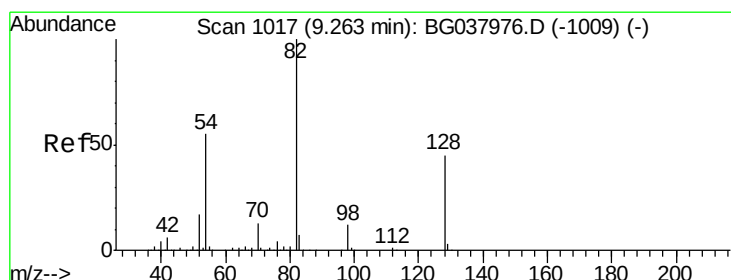
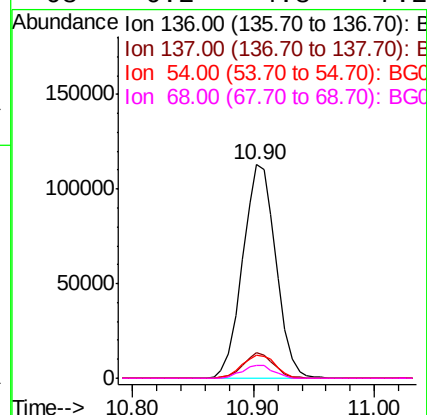
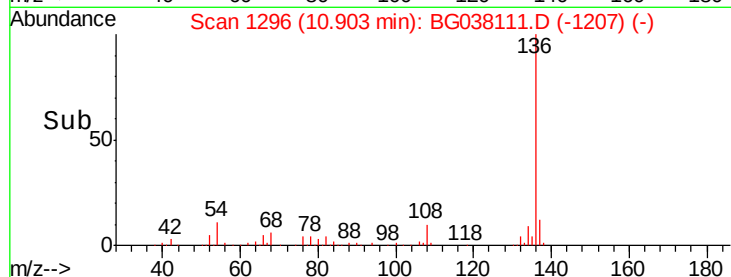
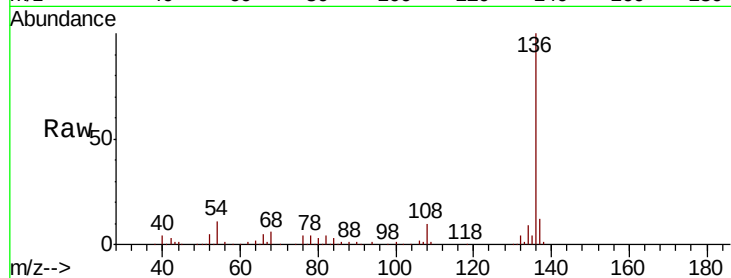




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.90 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

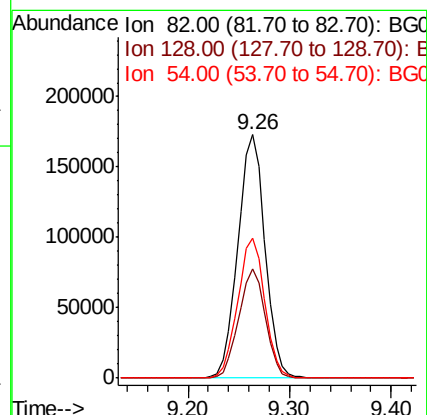
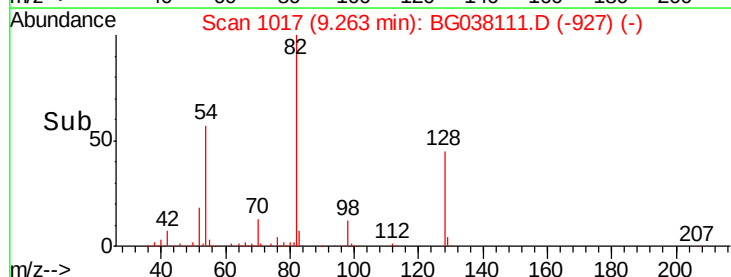
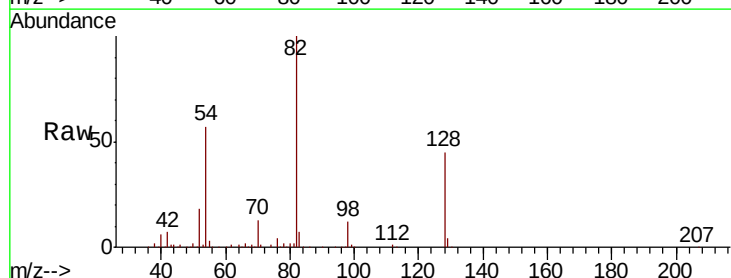
Instrument :  
BNA\_G  
ClientSampleId :

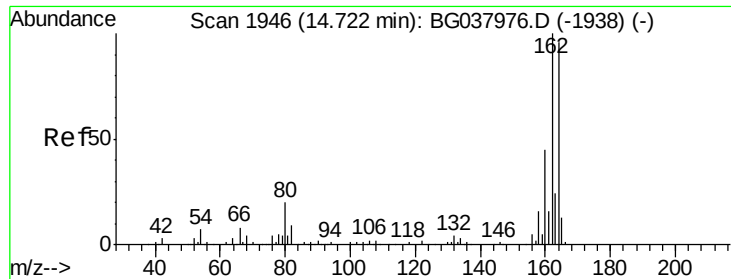
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 215648   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 12.0  | 9.6 14.4 |
| 54          | 10.9  | 7.9 11.9 |
| 68          | 6.2   | 4.8 7.2  |



#23  
Nitrobenzene-d5  
Concen: 79.855 ng  
RT: 9.26 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 321697    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.1  | 34.6 51.8 |
| 54          | 57.4  | 45.3 67.9 |

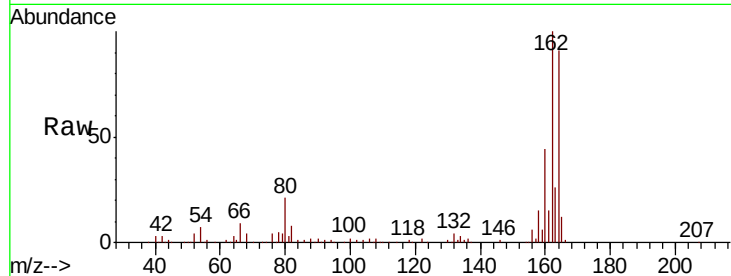




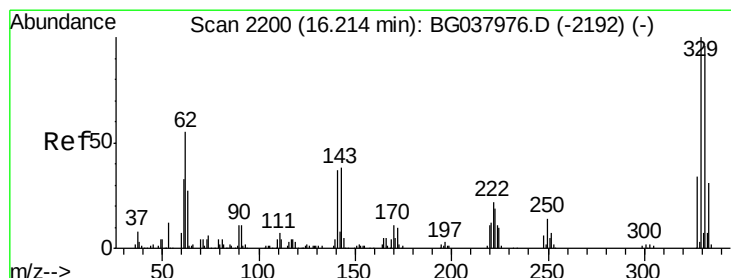
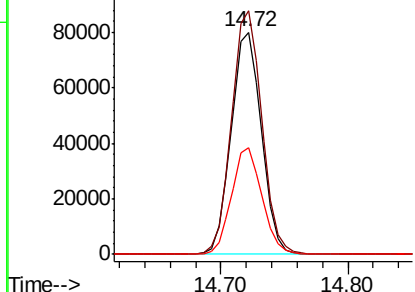
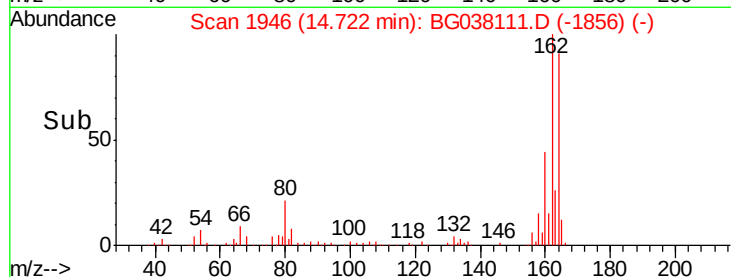
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.72 min Scan# 1946  
Delta R.T. -0.00 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:164 Resp: 131248  
Ion Ratio Lower Upper  
164 100  
162 109.4 81.3 121.9  
160 48.2 36.3 54.5

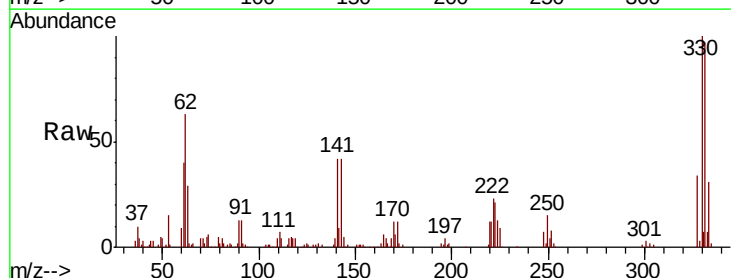


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

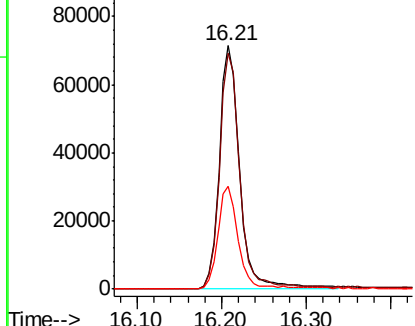
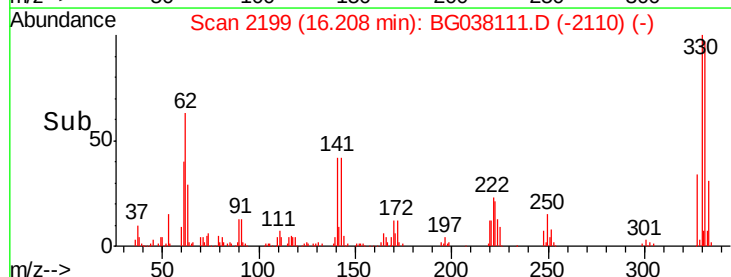


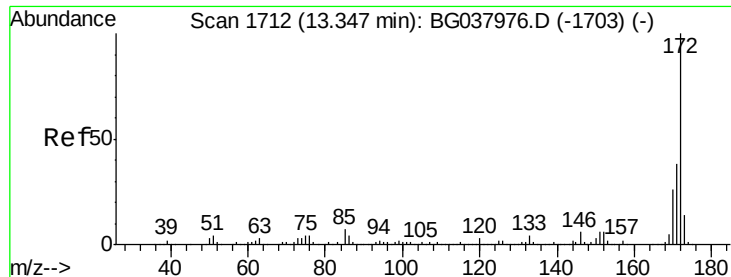
#42  
2,4,6-Tribromophenol  
Concen: 80.927 ng  
RT: 16.21 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Tgt Ion:330 Resp: 121136  
Ion Ratio Lower Upper  
330 100  
332 95.9 78.4 117.6  
141 42.2 32.2 48.2



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

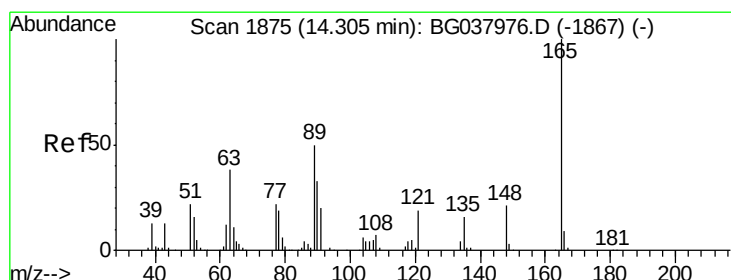
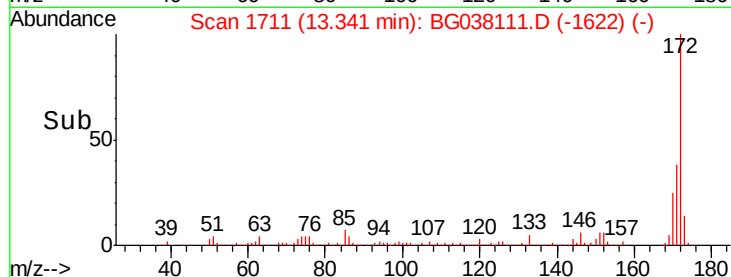
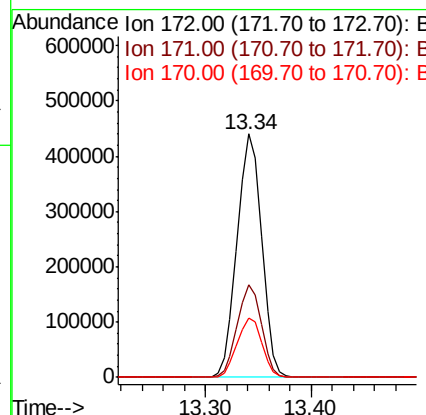
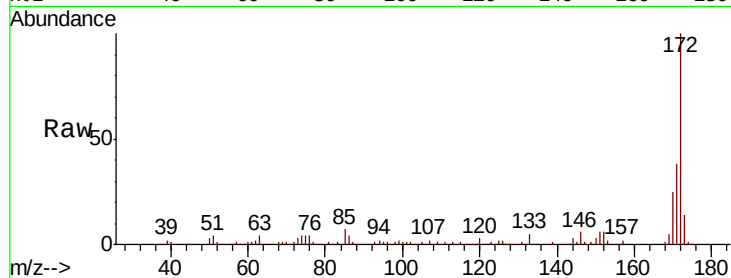




#45  
 2-Fluorobiphenyl  
 Concen: 78.440 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.01 min  
 Lab File: BG038111.D  
 Acq: 21 Nov 2018 9:12

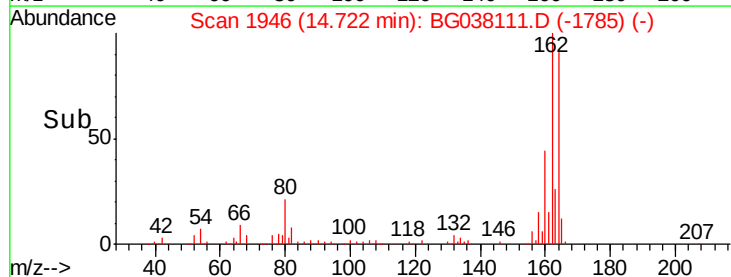
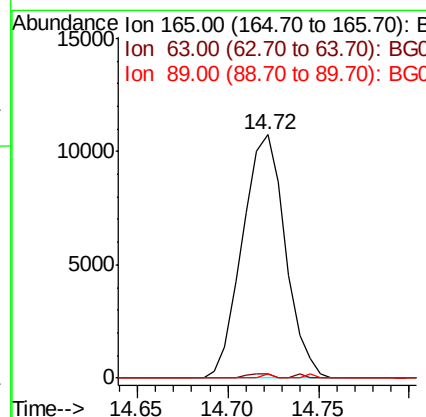
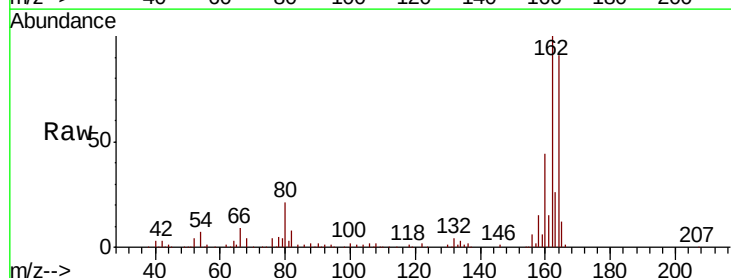
Instrument :  
 BNA\_G  
 ClientSampled :

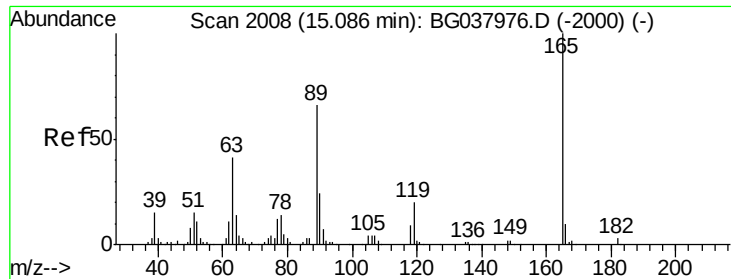
| Tot Ion   | 172   | Resp  | 706669 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 37.9  | 31.0  | 46.4   |
| 170       | 24.6  | 20.2  | 30.2   |



#51  
 2,6-Dinitrotoluene  
 Concen: 7.508 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. 0.42 min  
 Lab File: BG038111.D  
 Acq: 21 Nov 2018 9:12

| Tgt Ion   | 165   | Resp  | 17681 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.7   | 43.4  | 65.2# |
| 89        | 1.9   | 45.8  | 68.6# |

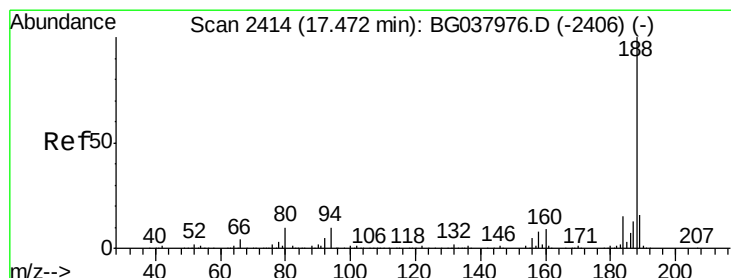
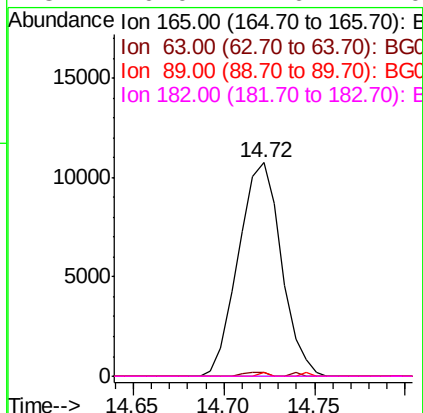
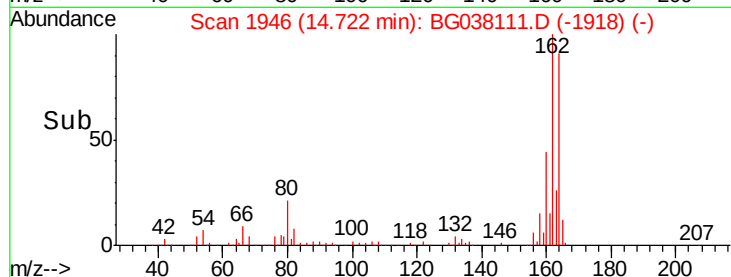
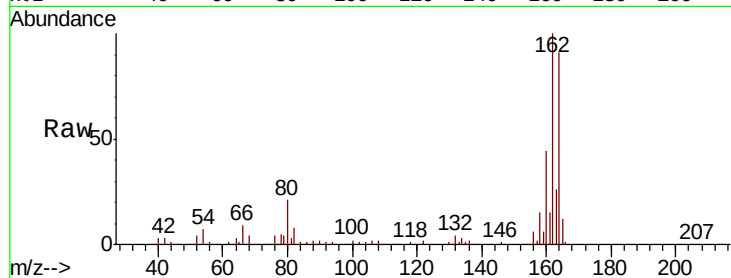




#57  
 2,4-Dinitrotoluene  
 Concen: 5.518 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. -0.36 min  
 Lab File: BG038111.D  
 Acq: 21 Nov 2018 9:12

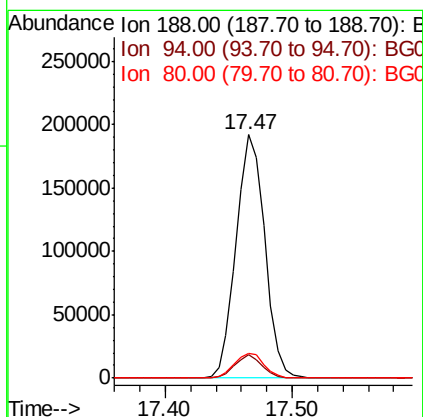
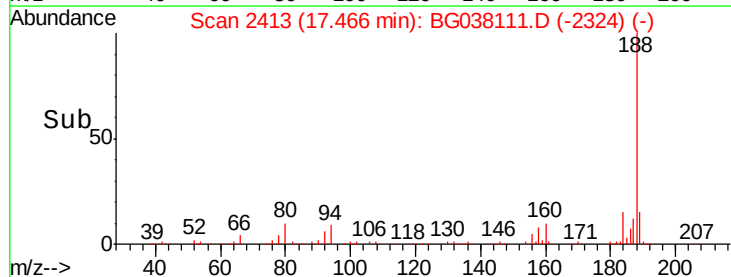
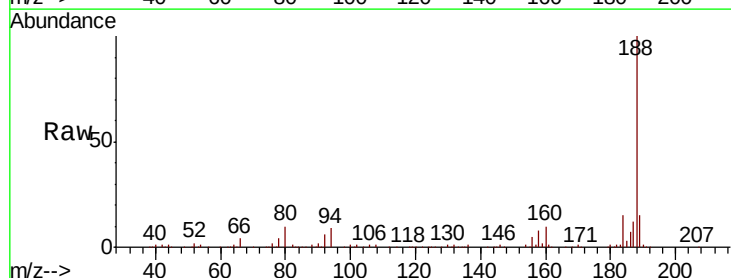
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 33.4  | 50.0# |
| 89      | 1.9   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |

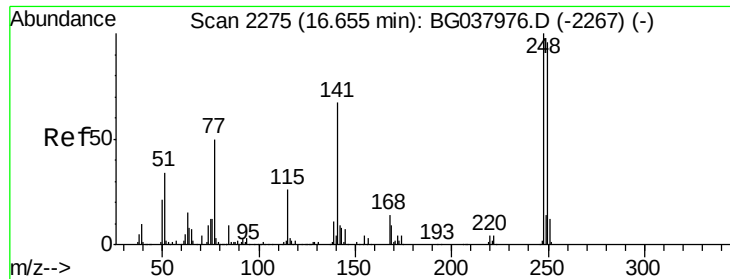


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.47 min Scan# 2413  
 Delta R.T. -0.01 min  
 Lab File: BG038111.D  
 Acq: 21 Nov 2018 9:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.4   | 7.2   | 10.8  |
| 80      | 10.1  | 7.7   | 11.5  |



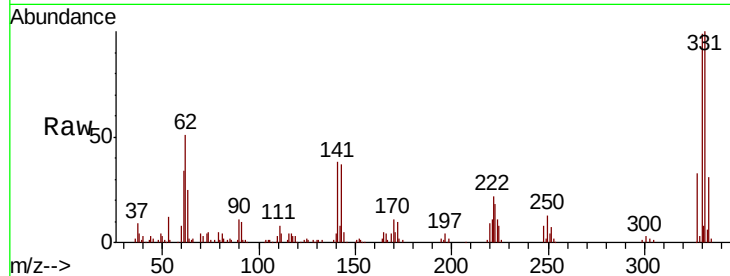




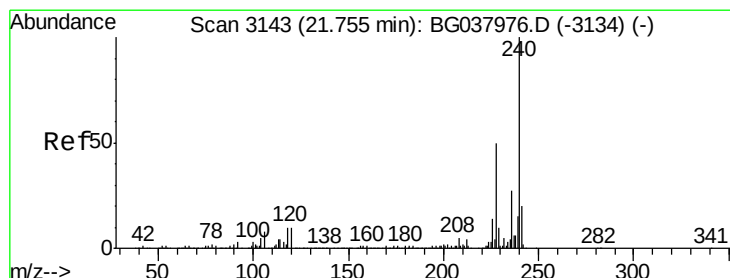
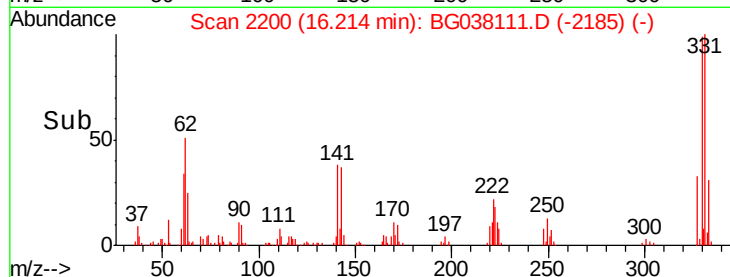
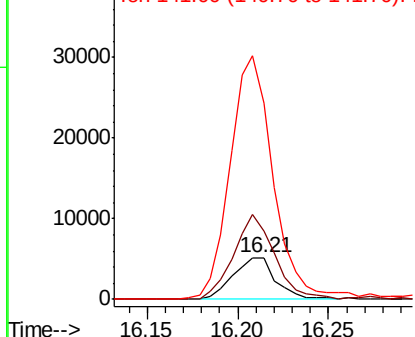
#67  
4-Bromophenyl-phenylether  
Concen: 2.578 ng  
RT: 16.21 min Scan# 2200  
Delta R.T. -0.44 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 8543  
Ion Ratio Lower Upper  
248 100  
250 161.3 77.0 115.6#  
141 362.4 55.5 83.3#

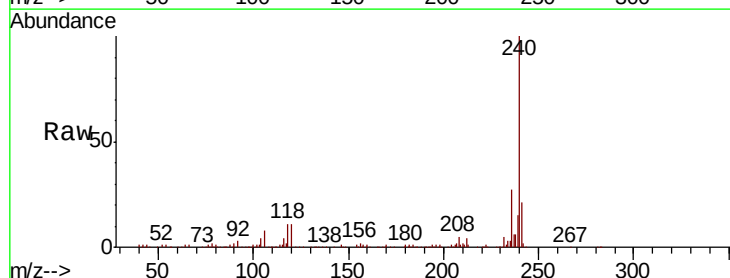


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

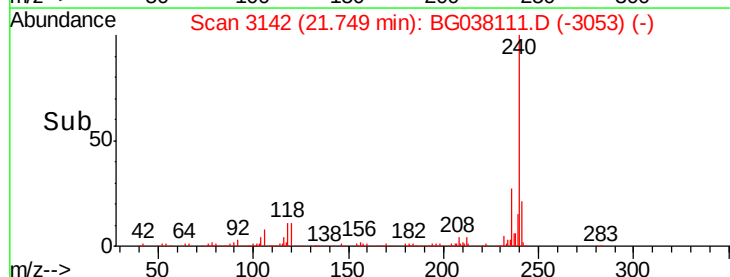
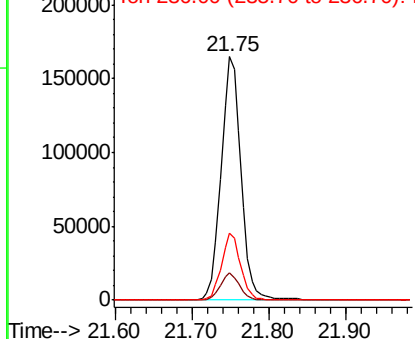


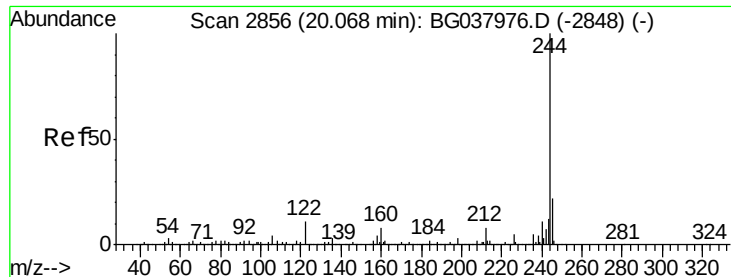
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.75 min Scan# 3142  
Delta R.T. -0.01 min  
Lab File: BG038111.D  
Acq: 21 Nov 2018 9:12

Tgt Ion:240 Resp: 295022  
Ion Ratio Lower Upper  
240 100  
120 11.0 8.1 12.1  
236 27.4 21.4 32.0



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





#79

Terphenyl-d14

Concen: 86.430 ng

RT: 20.07 min Scan# 2856

Delta R.T. 0.00 min

Lab File: BG038111.D

Acq: 21 Nov 2018 9:12

Instrument :

BNA\_G

ClientSampled :

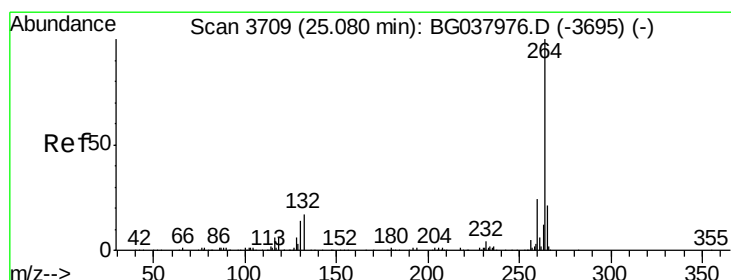
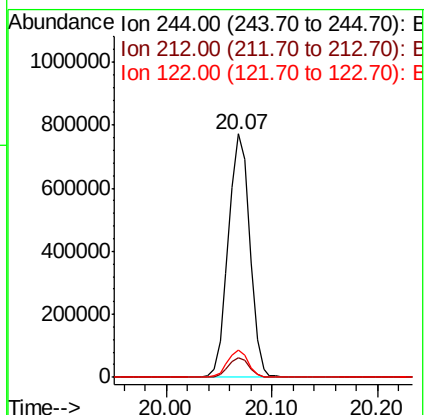
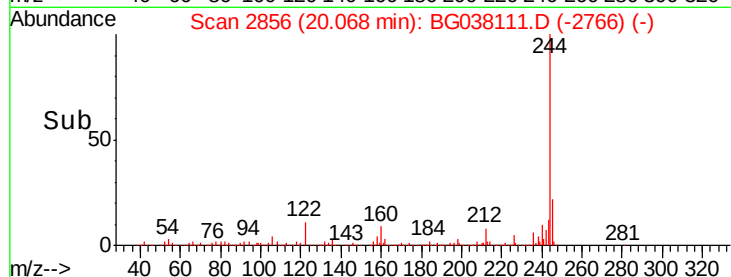
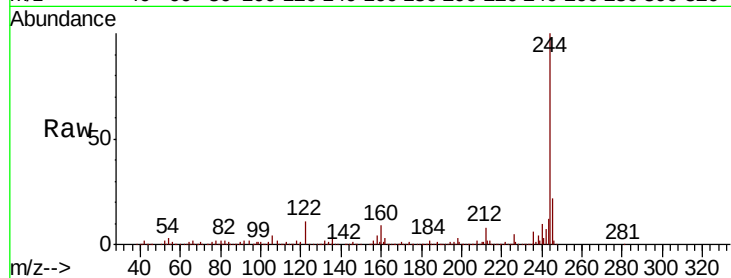
Tot Ion:244 Resp: 1083663

Ion Ratio Lower Upper

244 100

212 8.2 6.5 9.7

122 11.2 9.0 13.4



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.08 min Scan# 3709

Delta R.T. -0.00 min

Lab File: BG038111.D

Acq: 21 Nov 2018 9:12

Tgt Ion:264 Resp: 271655

Ion Ratio Lower Upper

264 100

260 24.6 18.2 27.4

265 22.1 17.9 26.9

