

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040319\  
 Data File : BG040352.D  
 Acq On : 4 Apr 2019 9:15  
 Operator : JU/SJ  
 Sample : K2187-01  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 04 11:23:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 28 05:47:00 2019  
 Response via : Initial Calibration

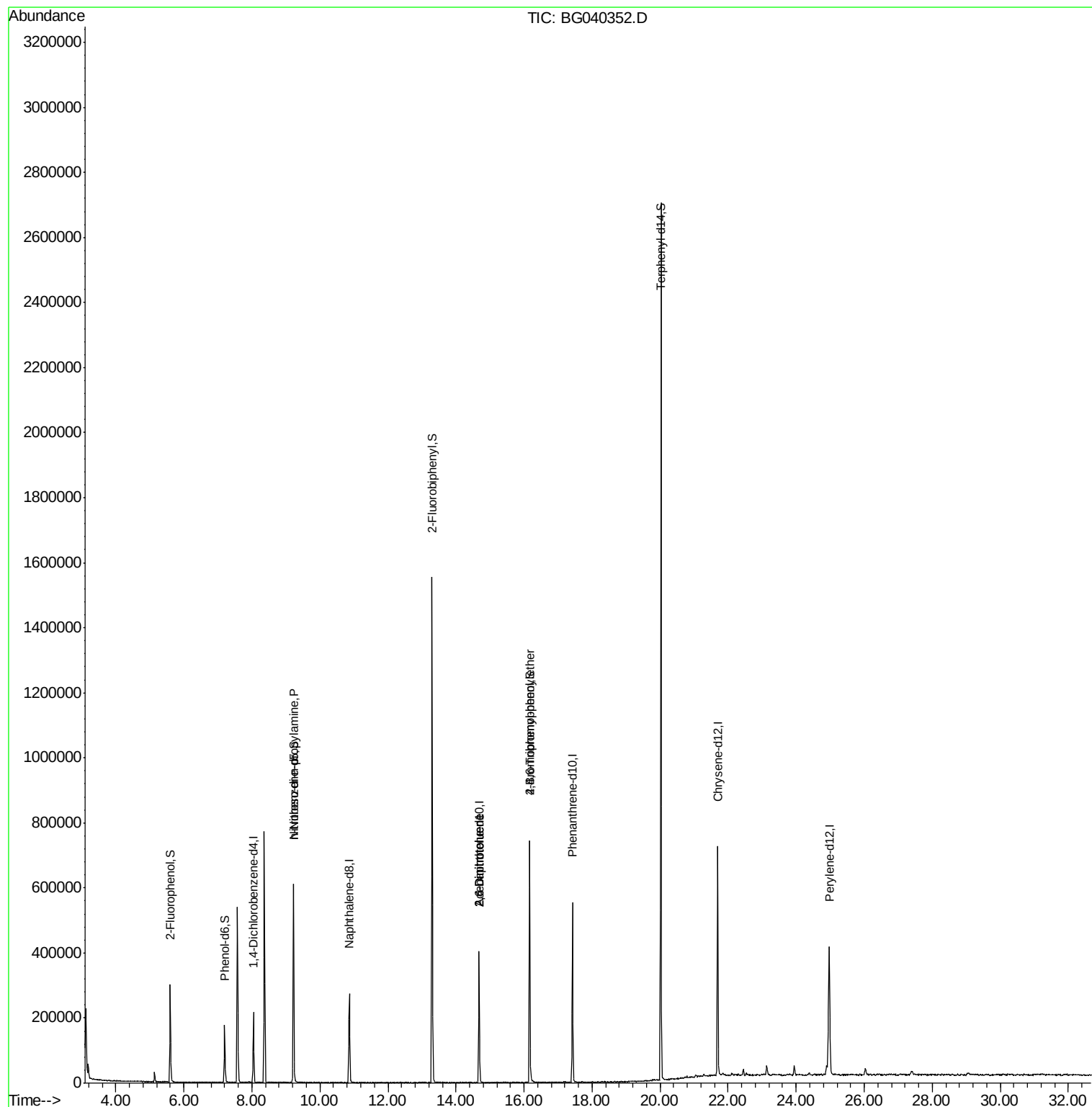
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 61001    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.86 | 136  | 242031   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 146694   | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 362544   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.69 | 240  | 415124   | 20.00  | ng    | -0.04    |
| 87) Perylene-d12               | 24.97 | 264  | 423567   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 140362   | 38.25  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.20  | 99   | 111803   | 22.05  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 381036   | 83.68  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 145592   | 91.83  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 861482   | 87.02  | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.02 | 244  | 1269229  | 68.78  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 47558    | 13.080 | ng    | # 73     |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 18858    | 7.315  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 18858    | 5.265  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 11540    | 2.829  | ng    | # 1      |

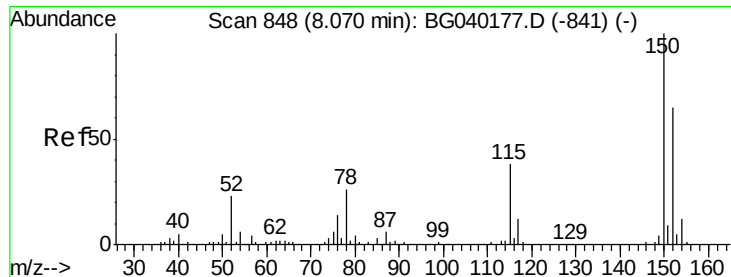
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040319\  
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Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 04 11:23:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 28 05:47:00 2019  
Response via : Initial Calibration



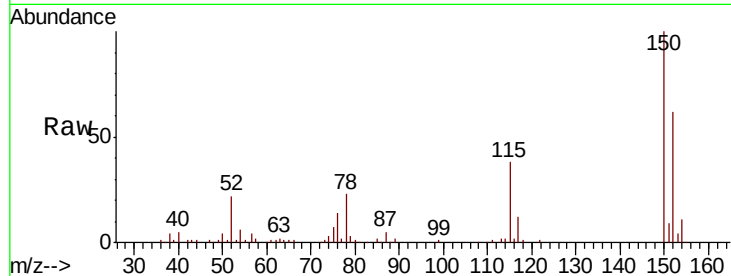


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 843  
Delta R.T. -0.03 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.6 | 123.7 | 185.5 |
| 115     | 60.8  | 46.9  | 70.3  |

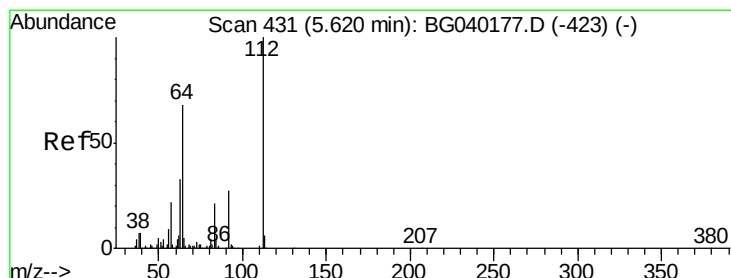
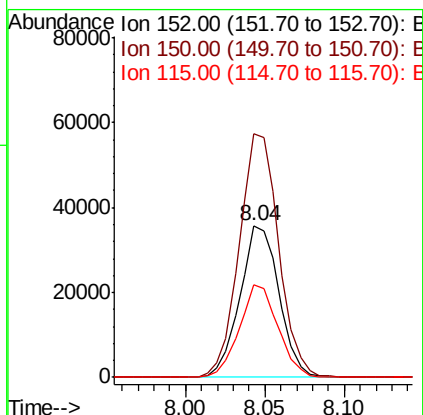
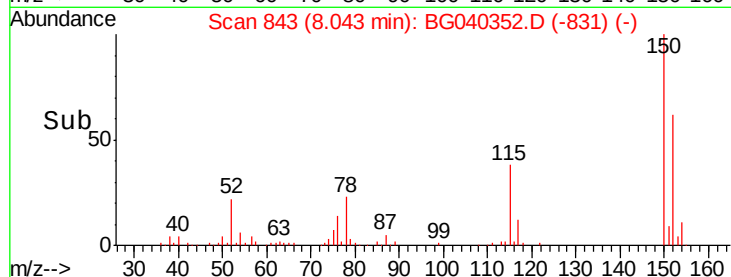


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

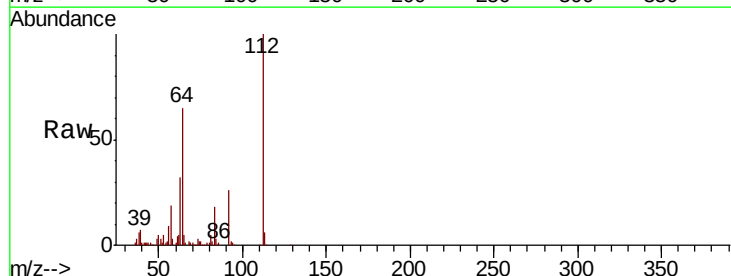
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 38.252 ng  
RT: 5.60 min Scan# 427  
Delta R.T. -0.02 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.7  | 54.2  | 81.2  |
| 63      | 32.4  | 26.4  | 39.6  |

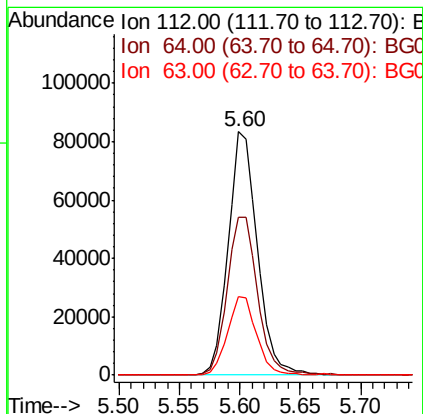
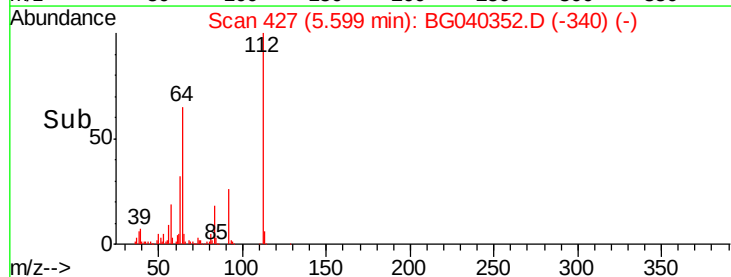


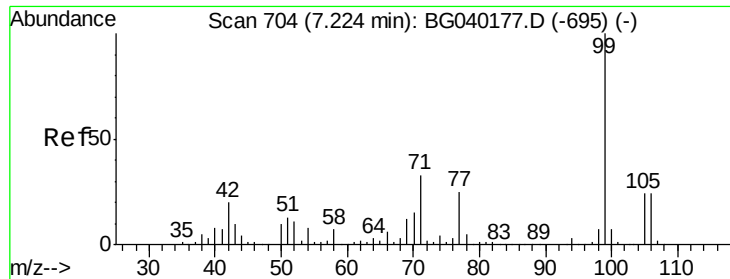
Abundance

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: 22.047 ng

RT: 7.20 min Scan# 699

Delta R.T. -0.03 min

Lab File: BG040352.D

Acq: 4 Apr 2019 9:15

Instrument :

BNA\_G

ClientSampleId :

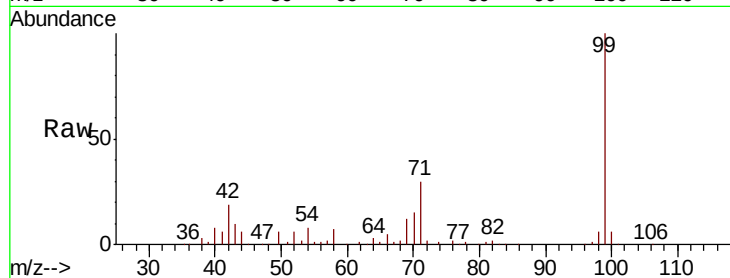
Tot Ion: 99 Resp: 111803

Ion Ratio Lower Upper

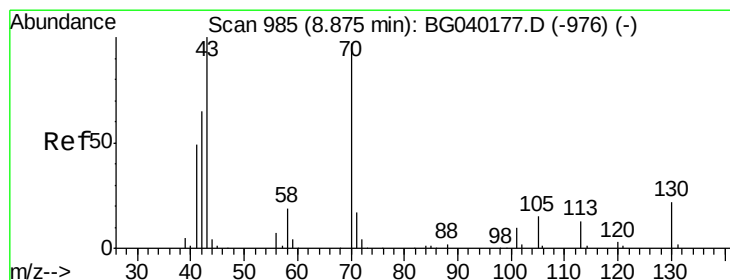
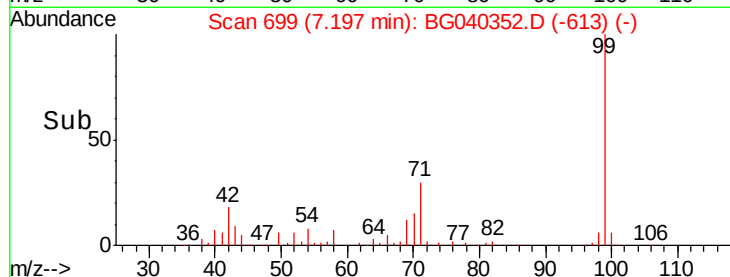
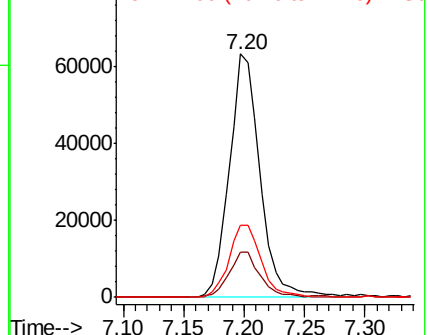
99 100

42 18.6 16.2 24.2

71 29.7 26.8 40.2



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: 13.080 ng

RT: 9.22 min Scan# 1044

Delta R.T. 0.35 min

Lab File: BG040352.D

Acq: 4 Apr 2019 9:15

Tgt Ion: 70 Resp: 47558

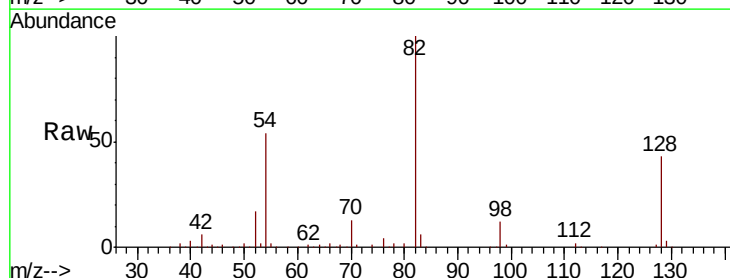
Ion Ratio Lower Upper

70 100

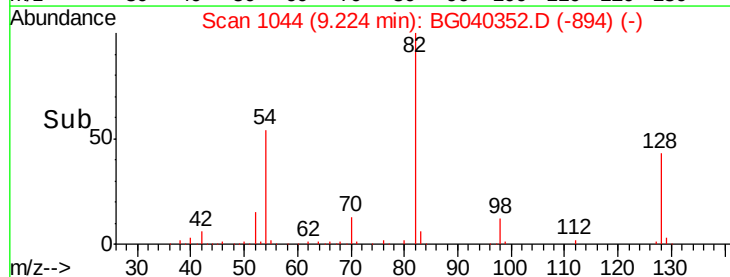
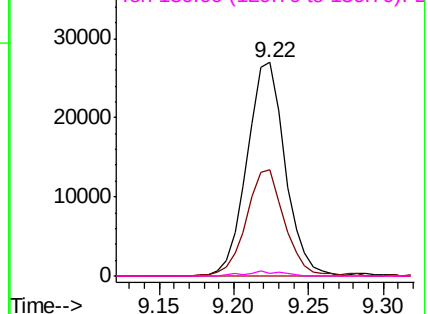
42 50.0 54.0 81.0#

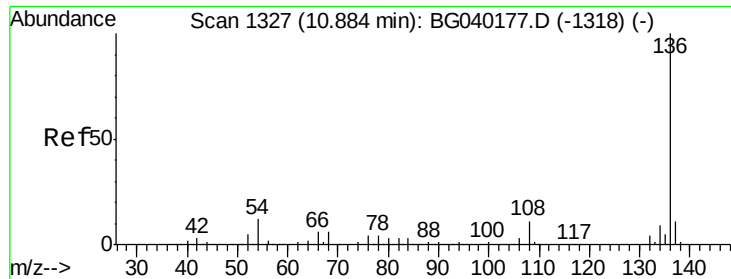
101 0.0 8.6 13.0#

130 1.4 18.2 27.2#



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

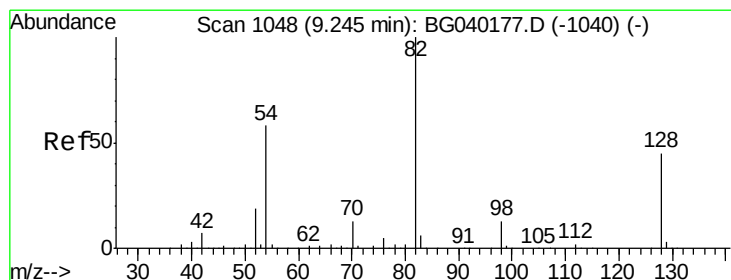
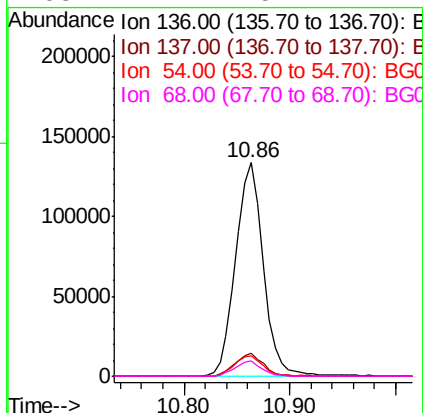
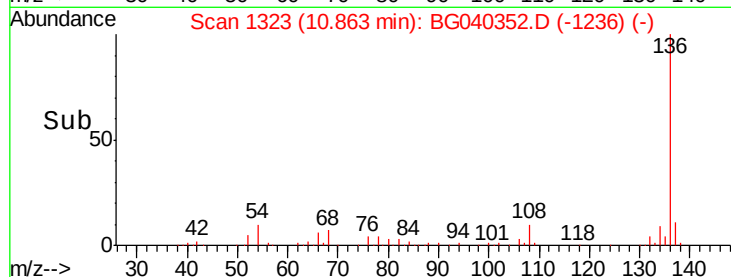
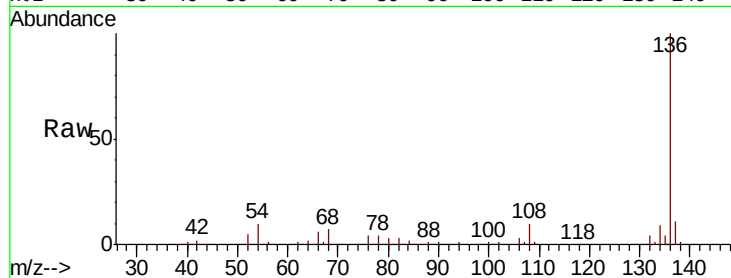




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

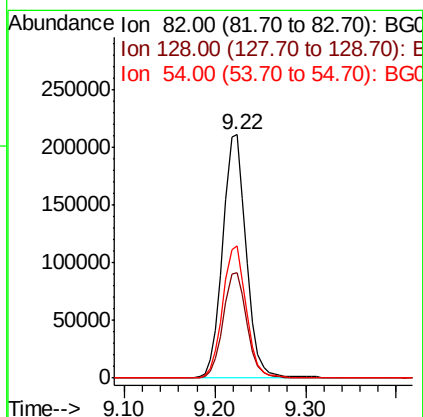
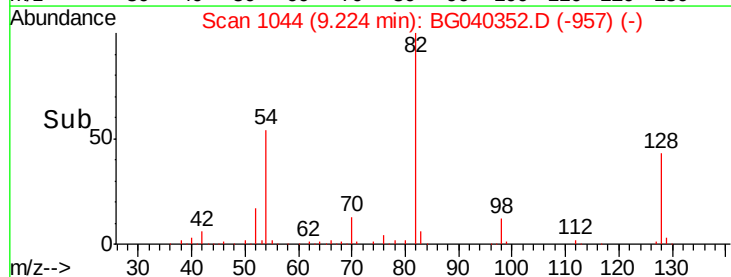
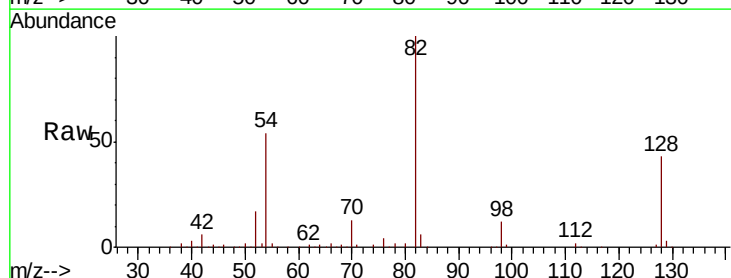
Instrument :  
BNA\_G  
ClientSampleId :

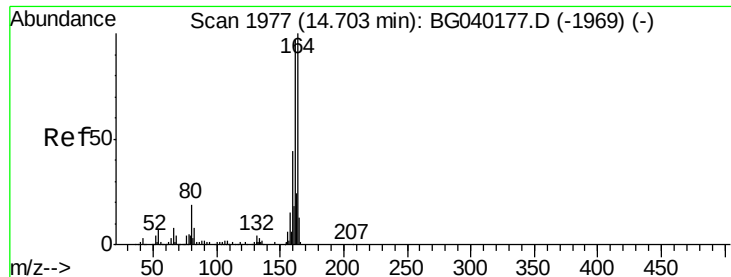
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 242031    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.7  | 8.9 13.3  |
| 54          | 9.5   | 9.6 14.4# |
| 68          | 7.1   | 5.1 7.7   |



#23  
Nitrobenzene-d5  
Concen: 83.681 ng  
RT: 9.22 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 381036    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 43.1  | 35.8 53.8 |
| 54          | 54.4  | 46.2 69.2 |

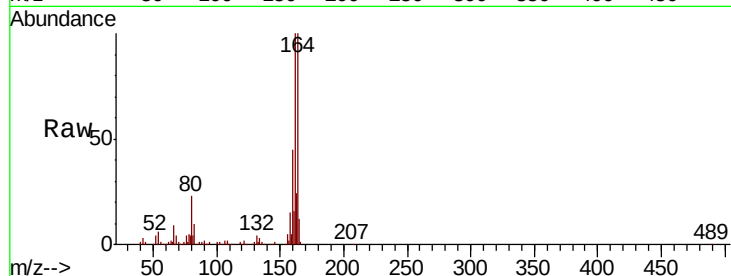




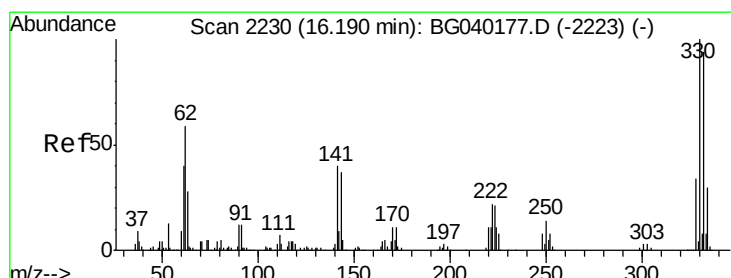
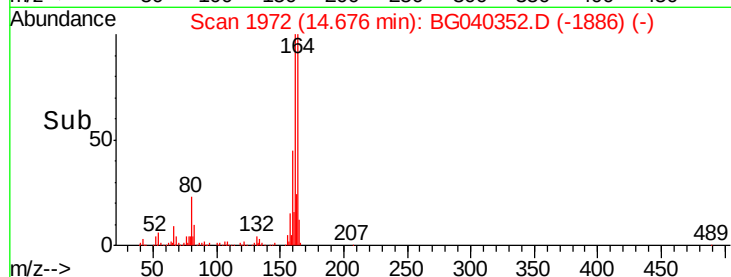
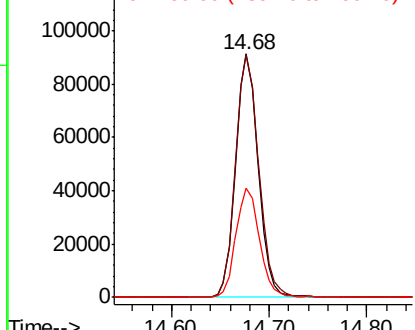
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.68 min Scan# 1972  
Delta R.T. -0.03 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 146694  
Ion Ratio Lower Upper  
164 100  
162 99.7 77.4 116.2  
160 44.8 35.3 52.9

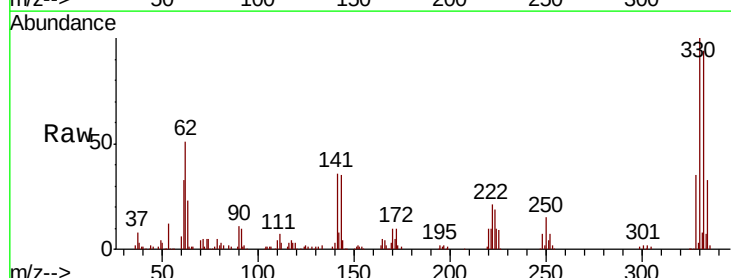


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

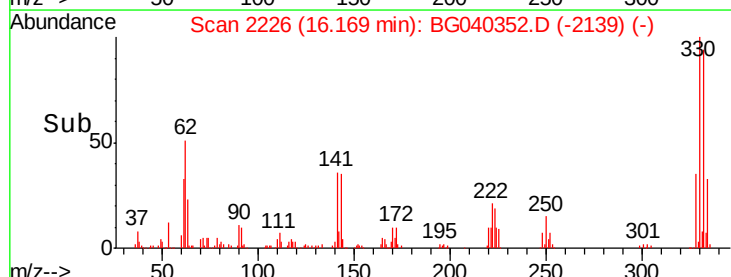
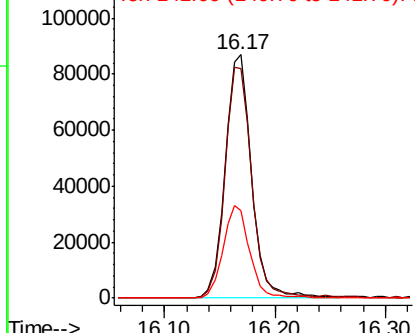


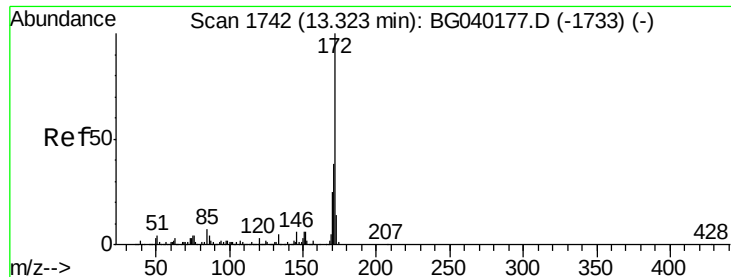
#42  
2,4,6-Tribromophenol  
Concen: 91.834 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.02 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Tgt Ion:330 Resp: 145592  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.6 115.0  
141 38.2 32.6 48.8



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

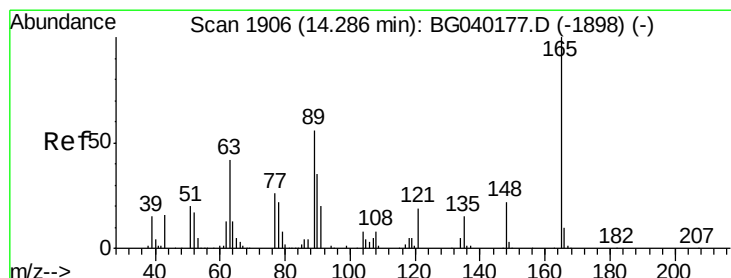
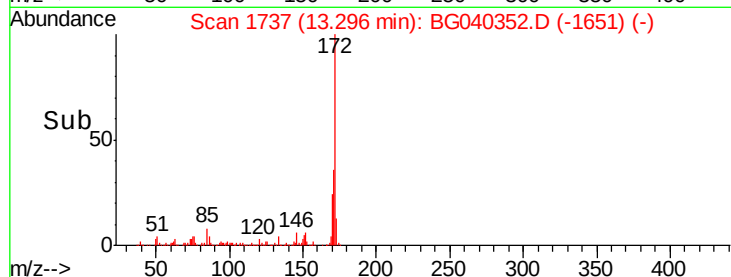
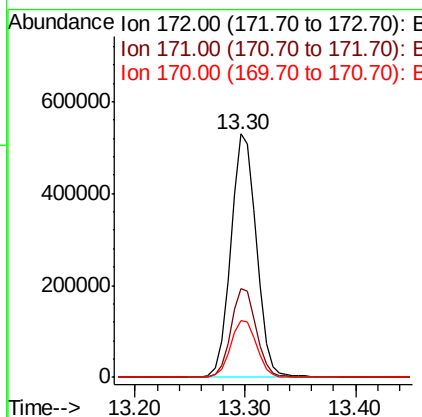
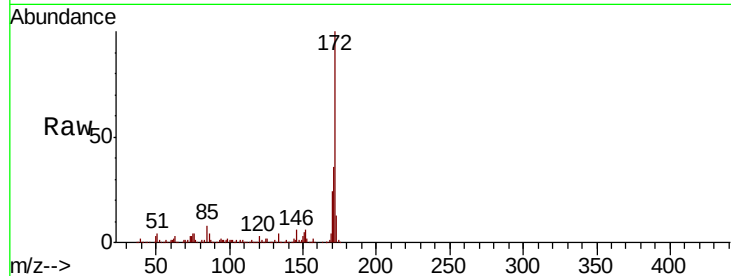




#45  
2-Fluorobiphenyl  
Concen: 87.019 ng  
RT: 13.30 min Scan# 1737  
Delta R.T. -0.03 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

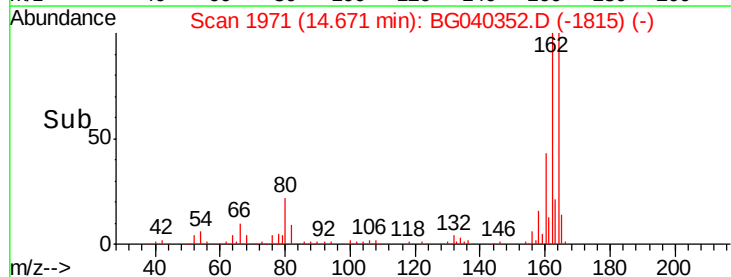
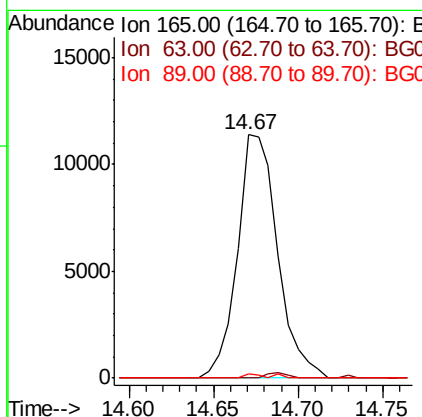
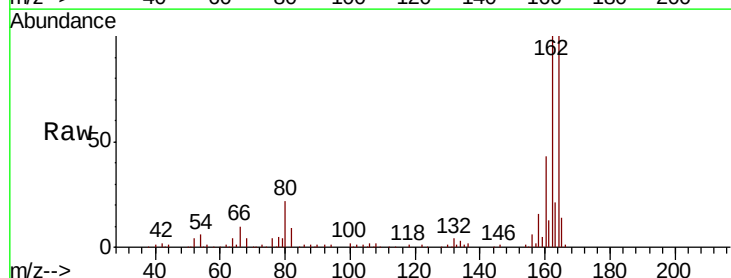
Instrument :  
BNA\_G  
ClientSampleId :

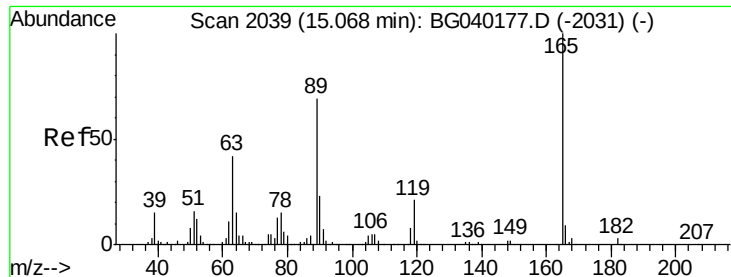
Tot Ion:172 Resp: 861482  
Ion Ratio Lower Upper  
172 100  
171 36.4 30.5 45.7  
170 23.5 20.1 30.1



#51  
2,6-Dinitrotoluene  
Concen: 7.315 ng  
RT: 14.67 min Scan# 1971  
Delta R.T. 0.38 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Tgt Ion:165 Resp: 18858  
Ion Ratio Lower Upper  
165 100  
63 0.0 44.1 66.1#  
89 1.7 44.9 67.3#

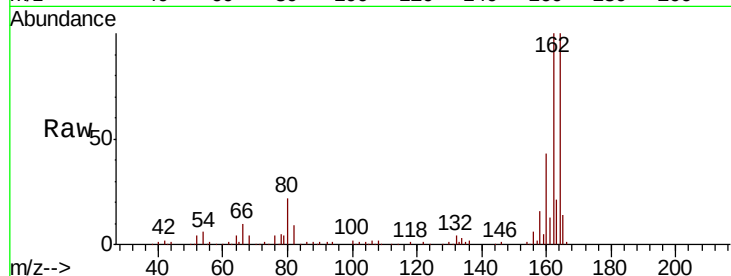




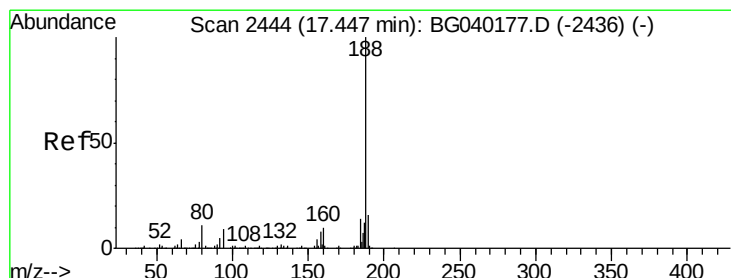
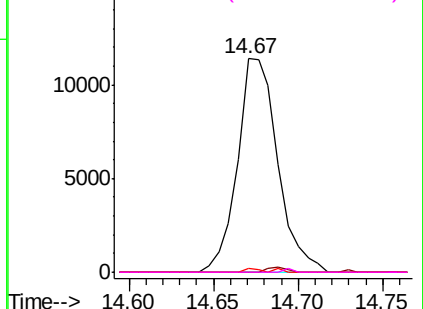
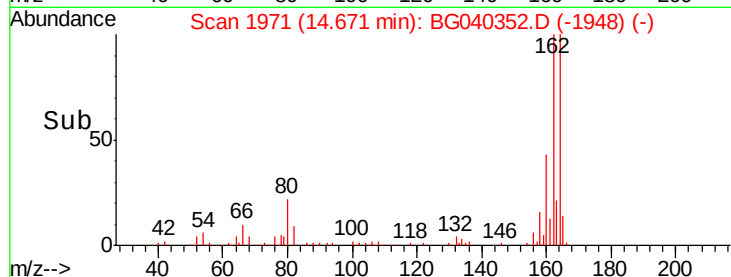
#57  
 2,4-Dinitrotoluene  
 Concen: 5.265 ng  
 RT: 14.67 min Scan# 1971  
 Delta R.T. -0.40 min  
 Lab File: BG040352.D  
 Acq: 4 Apr 2019 9:15

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 33.8  | 50.6# |
| 89      | 1.7   | 55.4  | 83.2# |
| 182     | 0.0   | 2.2   | 3.4#  |

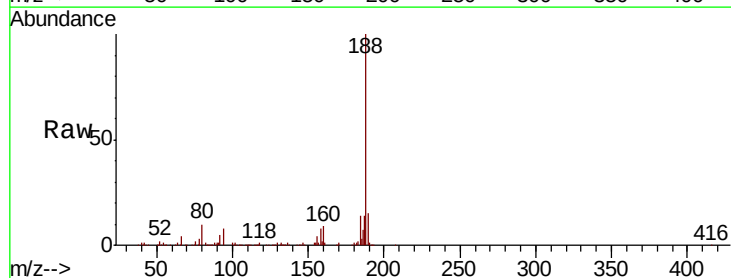


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

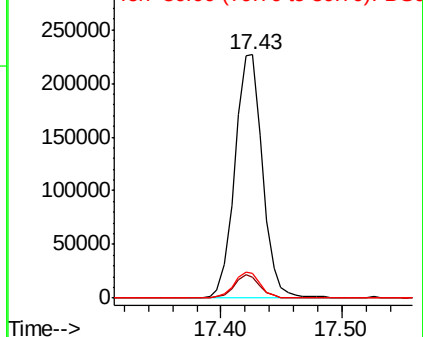
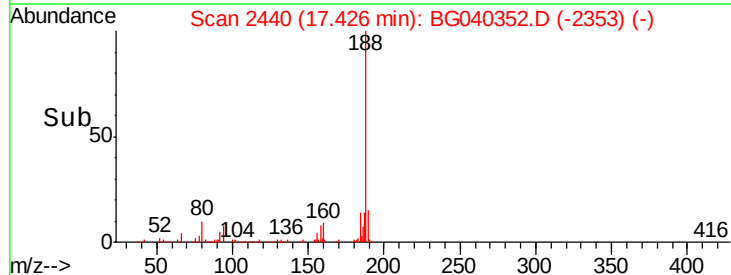


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2440  
 Delta R.T. -0.02 min  
 Lab File: BG040352.D  
 Acq: 4 Apr 2019 9:15

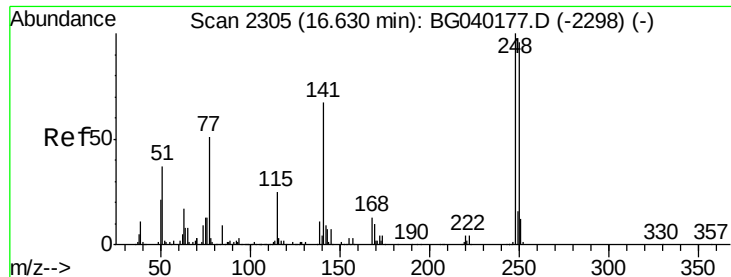
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 7.0   | 10.4  |
| 80      | 10.0  | 8.6   | 13.0  |



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



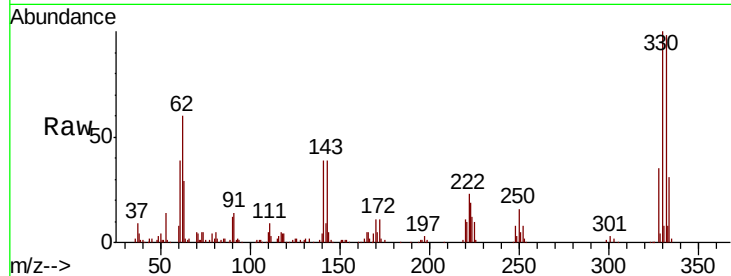




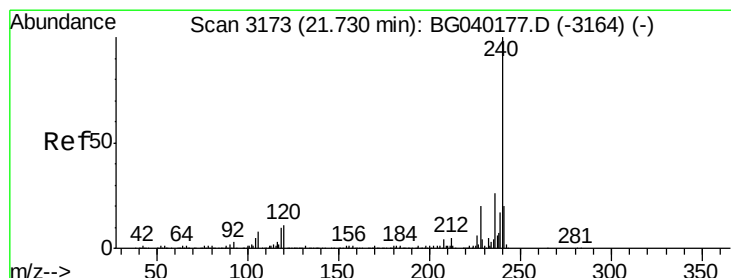
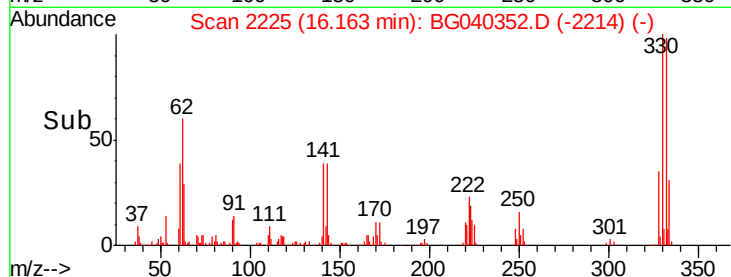
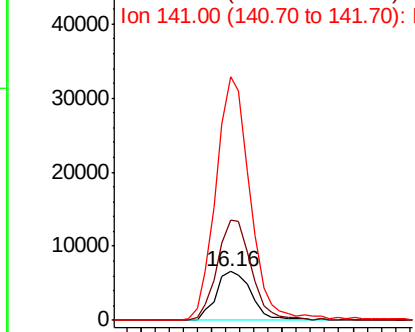
#67  
4-Bromophenyl-phenylether  
Concen: 2.829 ng  
RT: 16.16 min Scan# 2225  
Delta R.T. -0.47 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 11540  
Ion Ratio Lower Upper  
248 100  
250 154.9 76.4 114.6#  
141 376.6 53.8 80.8#

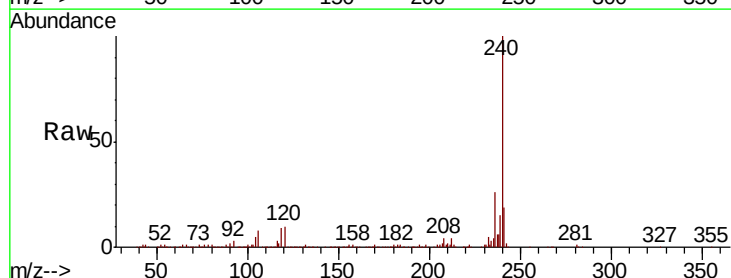


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

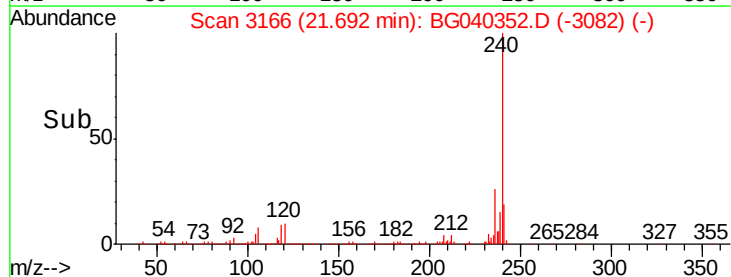
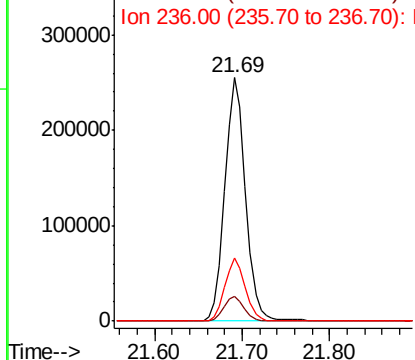


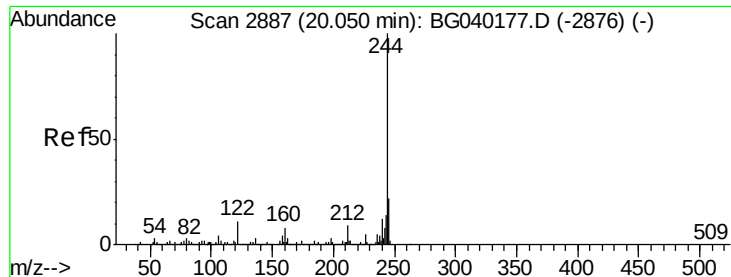
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3166  
Delta R.T. -0.04 min  
Lab File: BG040352.D  
Acq: 4 Apr 2019 9:15

Tgt Ion:240 Resp: 415124  
Ion Ratio Lower Upper  
240 100  
120 10.4 8.4 12.6  
236 25.7 20.8 31.2



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: 68.782 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.03 min

Lab File: BG040352.D

Acq: 4 Apr 2019 9:15

Instrument :

BNA\_G

ClientSampleId :

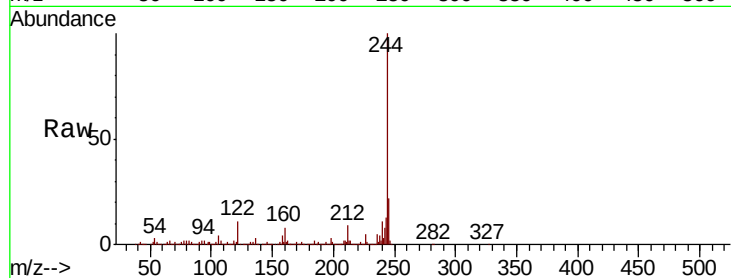
Tot Ion:244 Resp: 1269229

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.6

122 11.4 8.5 12.7

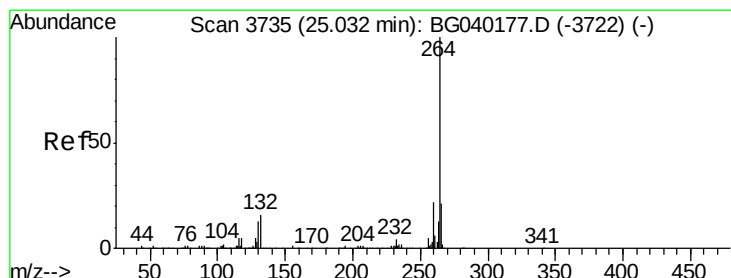
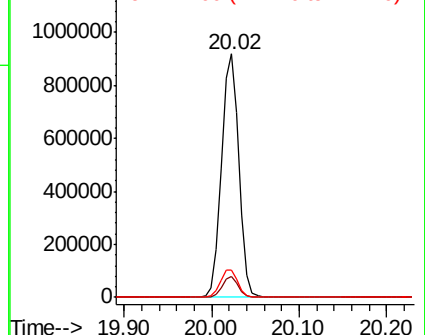
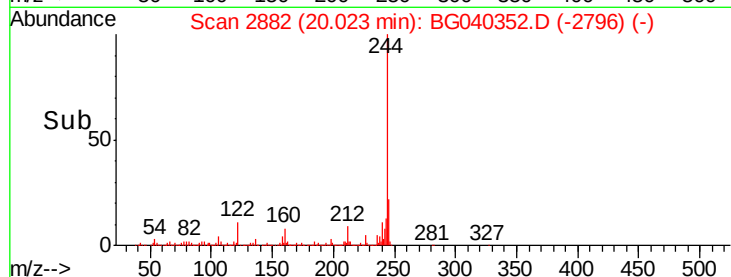


Abundance

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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.97 min Scan# 3724

Delta R.T. -0.06 min

Lab File: BG040352.D

Acq: 4 Apr 2019 9:15

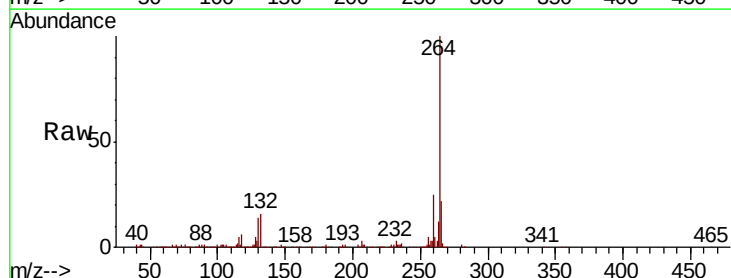
Tgt Ion:264 Resp: 423567

Ion Ratio Lower Upper

264 100

260 25.3 17.9 26.9

265 21.6 16.8 25.2



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

