

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041719\  
 Data File : BG040554.D  
 Acq On : 18 Apr 2019 7:14  
 Operator : JU/SJ  
 Sample : K2442-04  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 18 07:54:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 13 00:33:11 2019  
 Response via : Initial Calibration

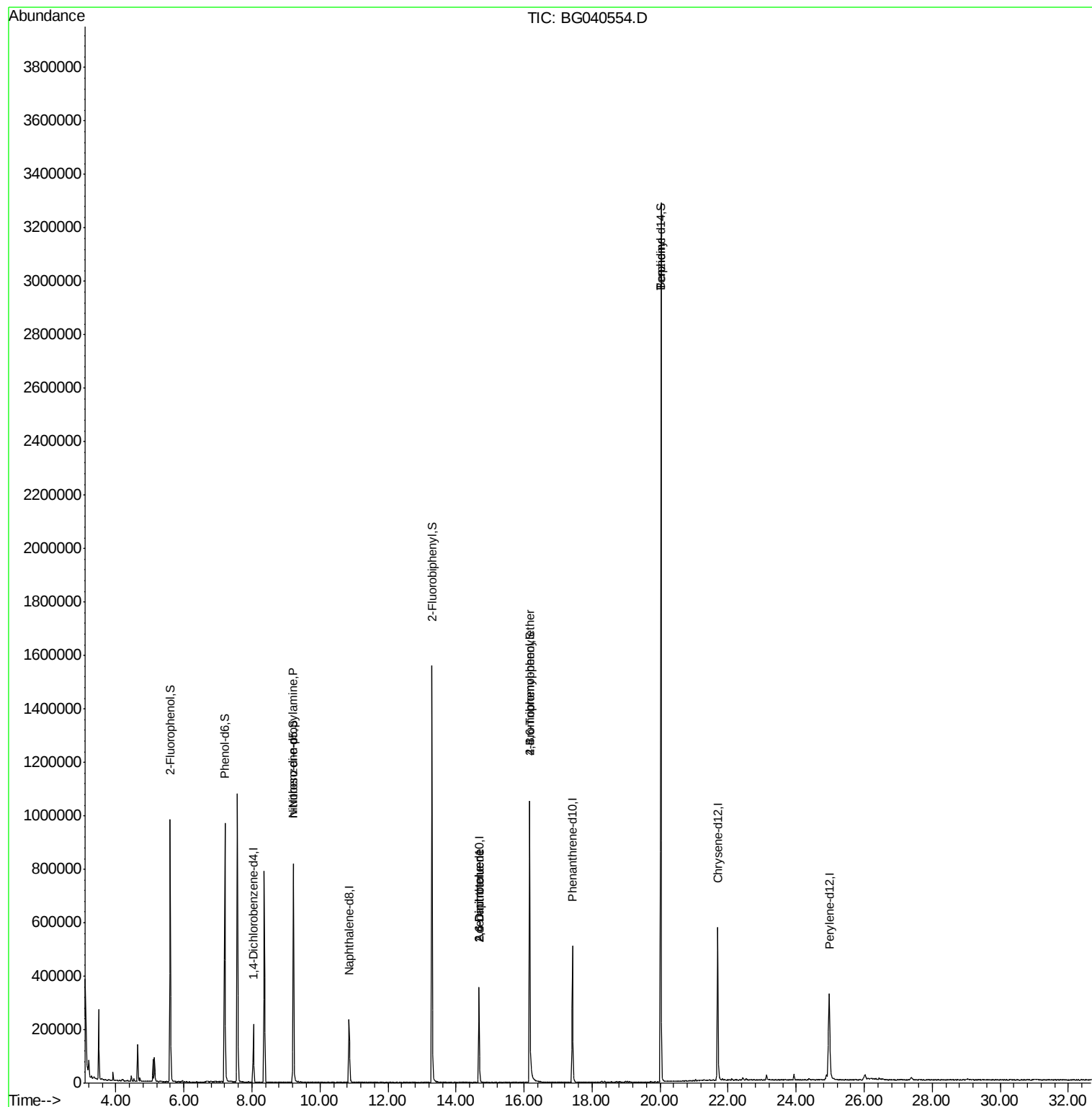
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 59903    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.86 | 136  | 227245   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.67 | 164  | 133705   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.42 | 188  | 350627   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.69 | 240  | 362092   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.97 | 264  | 386094   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 422896   | 117.36 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 632743   | 127.06 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 508894   | 119.03 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.16 | 330  | 208777   | 144.48 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.29 | 172  | 840573   | 93.16  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 1537521  | 95.53  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 64256    | 17.996 | ng    | # 74     |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 17178    | 7.311  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 17178    | 5.262  | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 15761    | 3.994  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 27317    | 2.089  | ng    | # 92     |

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

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Sample : K2442-04  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 18 07:54:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Apr 13 00:33:11 2019  
Response via : Initial Calibration



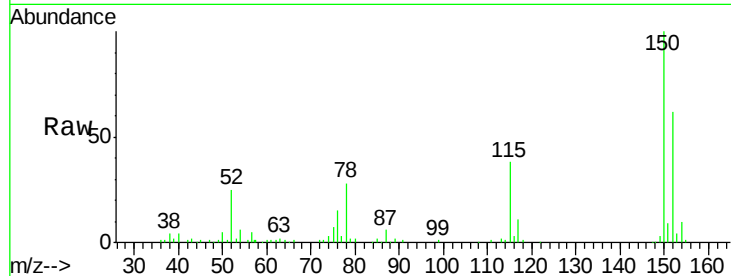


#1

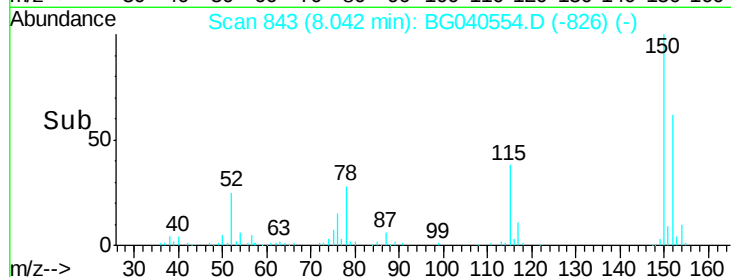
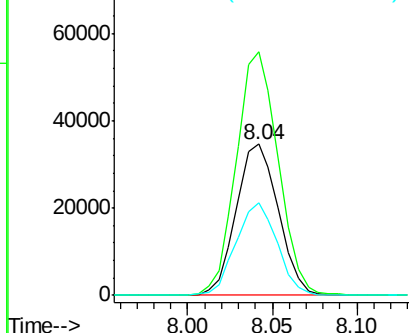
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 843  
Delta R.T. -0.00 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.1 | 123.7 | 185.5 |
| 115     | 61.5  | 46.9  | 70.3  |



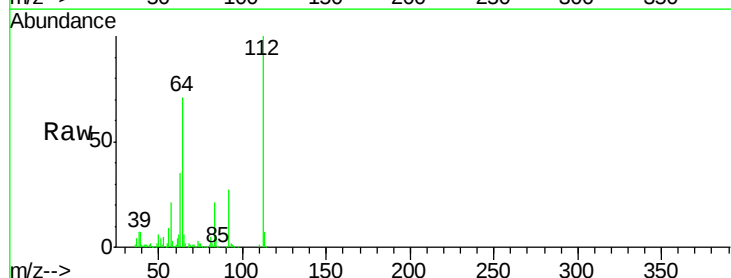
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



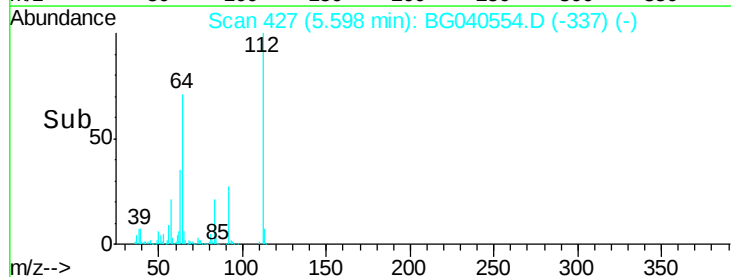
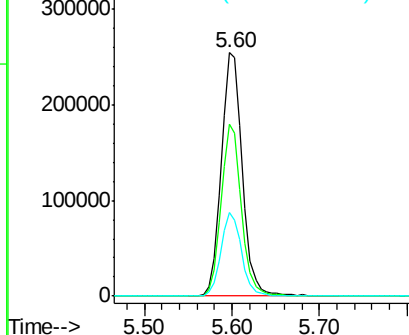
#5

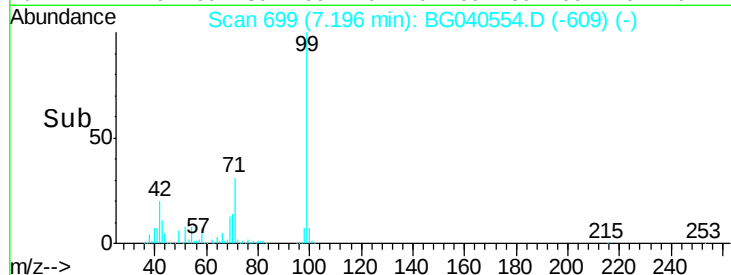
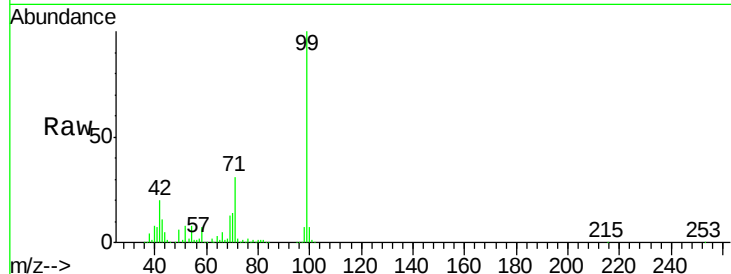
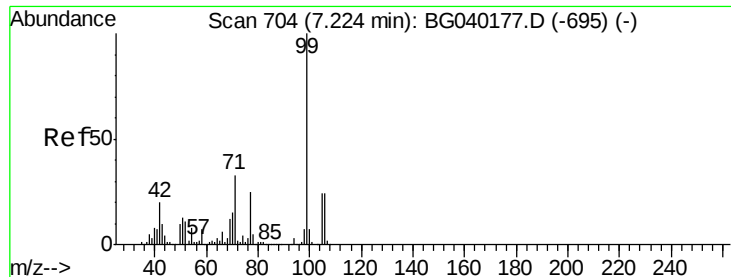
2-Fluorophenol  
Concen: 117.361 ng  
RT: 5.60 min Scan# 427  
Delta R.T. -0.00 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.6  | 54.2  | 81.2  |
| 63      | 34.6  | 26.4  | 39.6  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 127.059 ng

RT: 7.20 min Scan# 699

Delta R.T. -0.00 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

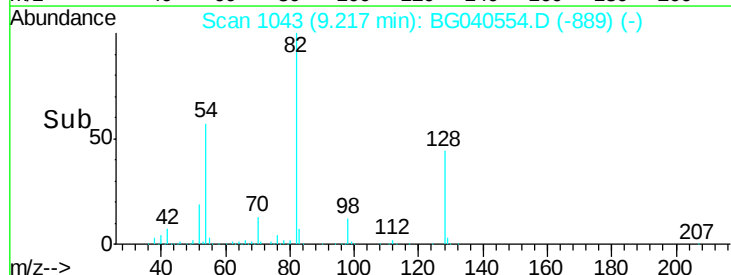
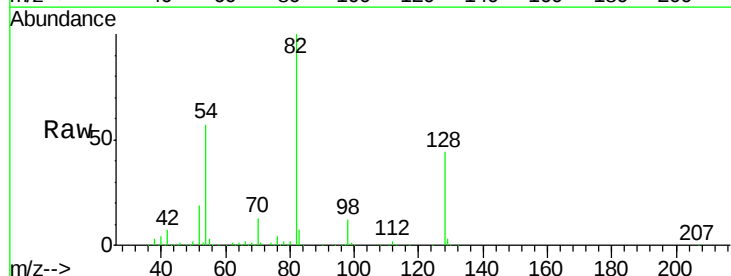
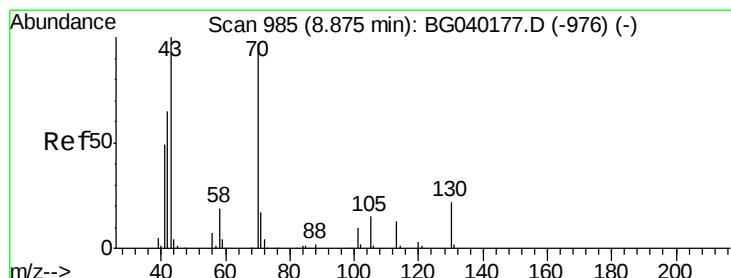
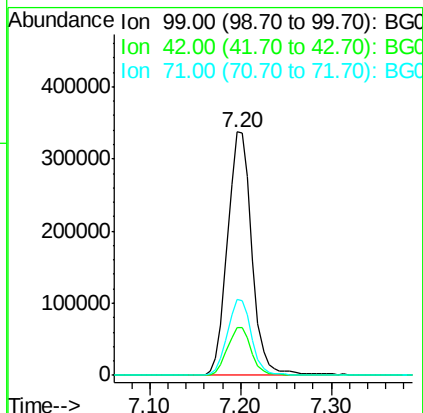
Tot Ion: 99 Resp: 632743

Ion Ratio Lower Upper

99 100

42 19.8 16.2 24.2

71 31.0 26.8 40.2



#19

n-Nitroso-di-n-propylamine

Concen: 17.996 ng

RT: 9.22 min Scan# 1043

Delta R.T. 0.37 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

Tgt Ion: 70 Resp: 64256

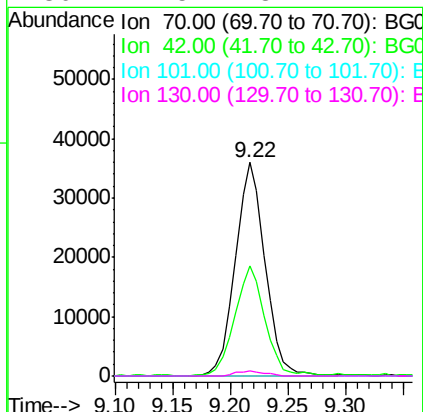
Ion Ratio Lower Upper

70 100

42 51.7 54.0 81.0#

101 0.0 8.6 13.0#

130 2.5 18.2 27.2#

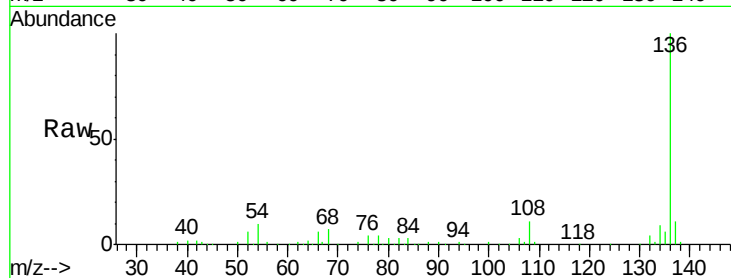




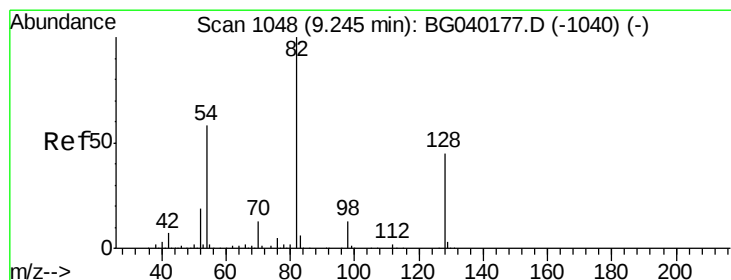
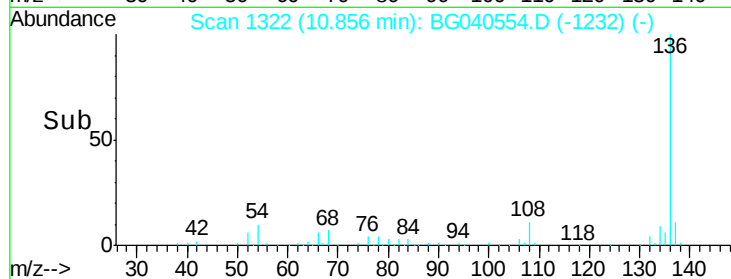
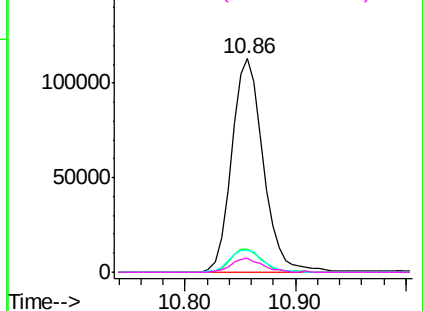
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1322  
Delta R.T. -0.00 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 227245   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.9 13.3 |
| 54          | 10.2  | 9.6 14.4 |
| 68          | 6.5   | 5.1 7.7  |

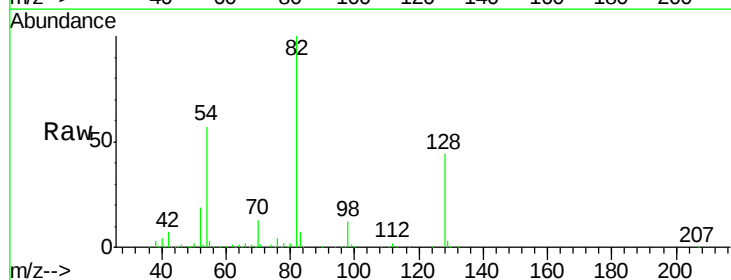


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

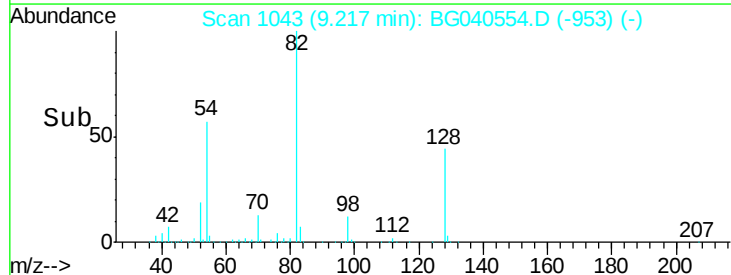
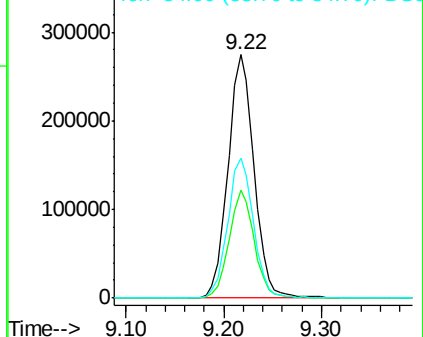


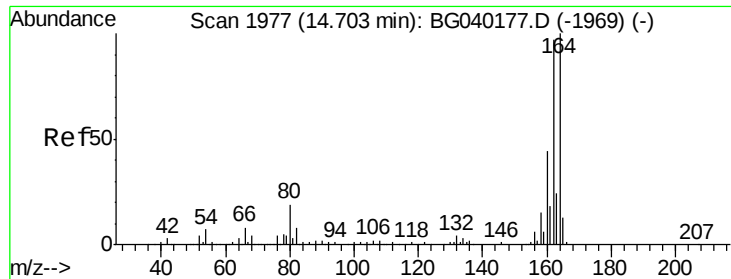
#23  
Nitrobenzene-d5  
Concen: 119.032 ng  
RT: 9.22 min Scan# 1043  
Delta R.T. -0.00 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 508894    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.2  | 35.8 53.8 |
| 54          | 57.2  | 46.2 69.2 |



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: 14.67 min Scan# 1971

Delta R.T. -0.01 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

Instrument :

BNA\_G

ClientSampleId :

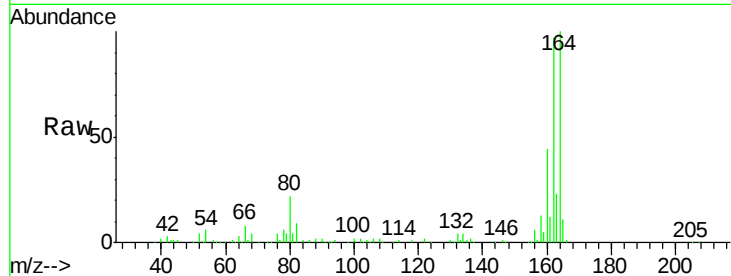
Tot Ion:164 Resp: 133705

Ion Ratio Lower Upper

164 100

162 97.4 77.4 116.2

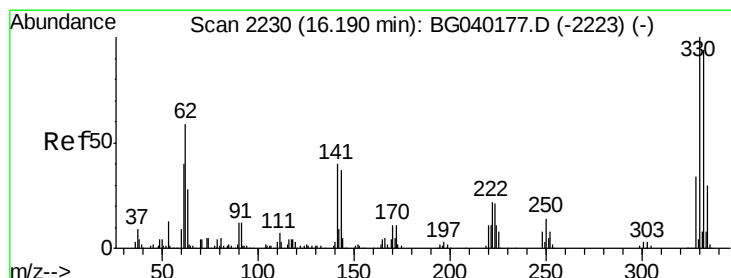
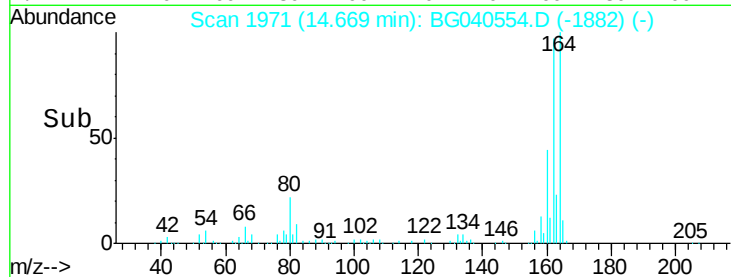
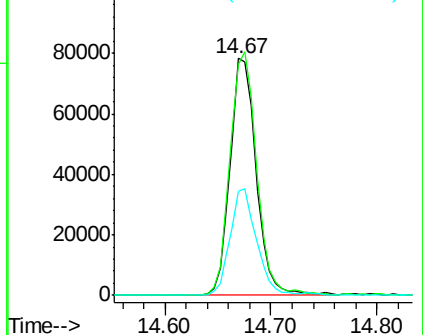
160 43.8 35.3 52.9



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: 144.482 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

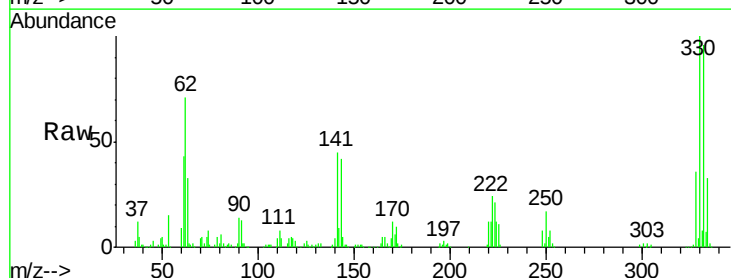
Tgt Ion:330 Resp: 208777

Ion Ratio Lower Upper

330 100

332 96.3 76.6 115.0

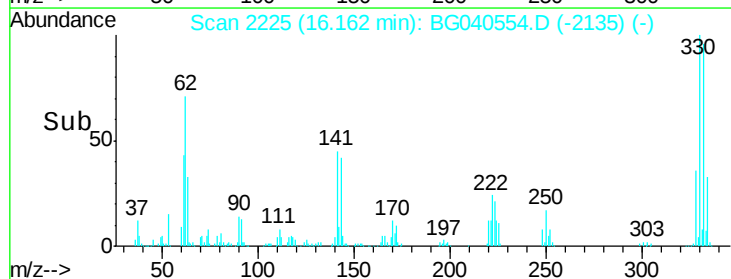
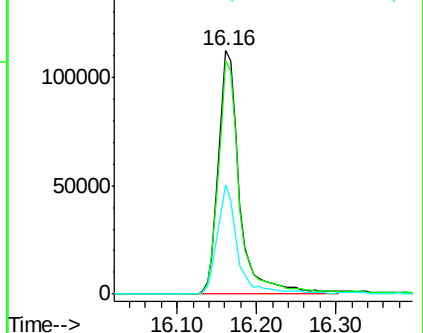
141 43.2 32.6 48.8



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

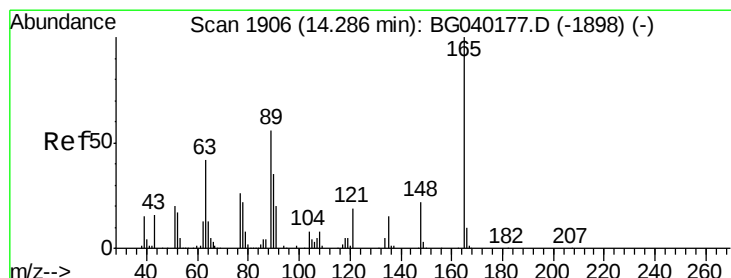
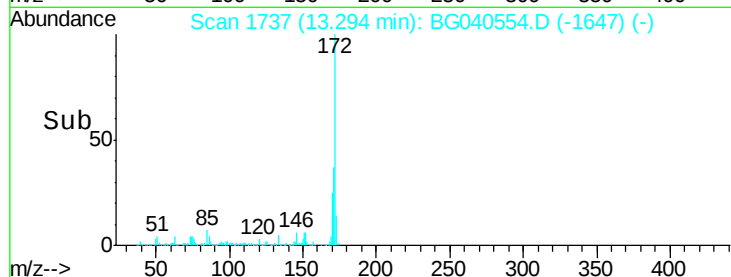
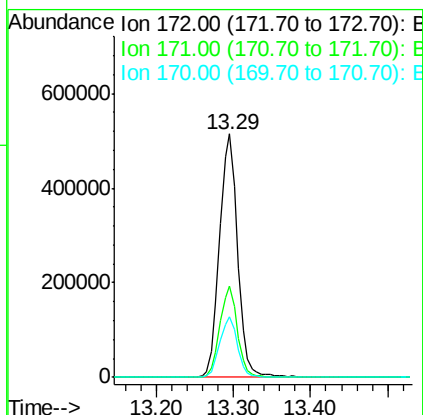
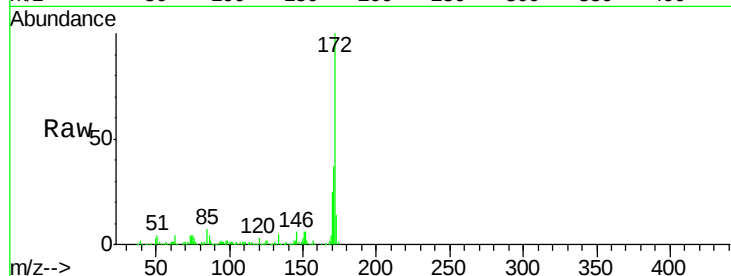




#45  
2-Fluorobiphenyl  
Concen: 93.155 ng  
RT: 13.29 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

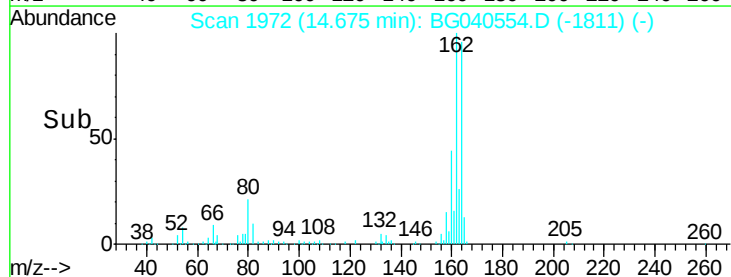
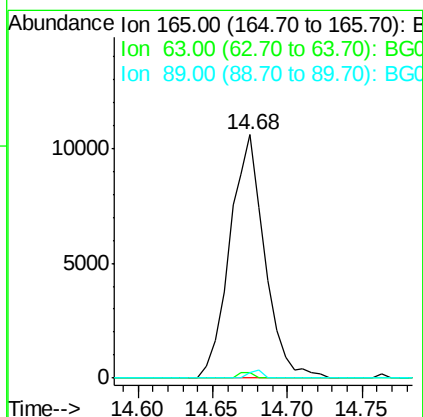
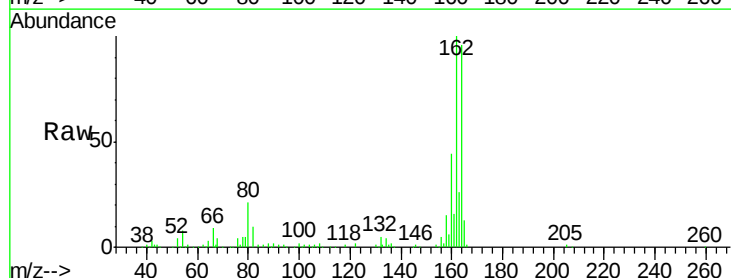
Instrument :  
BNA\_G  
ClientSampleId :

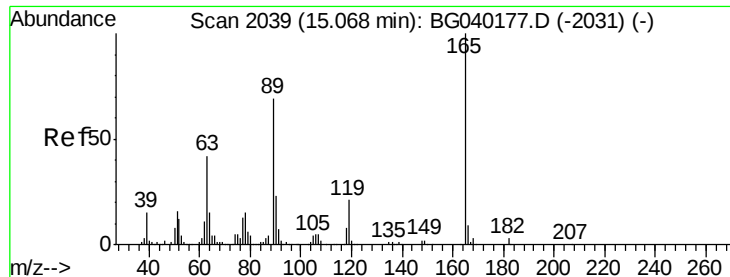
Tot Ion:172 Resp: 840573  
Ion Ratio Lower Upper  
172 100  
171 37.4 30.5 45.7  
170 24.7 20.1 30.1



#51  
2,6-Dinitrotoluene  
Concen: 7.311 ng  
RT: 14.68 min Scan# 1972  
Delta R.T. 0.41 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

Tgt Ion:165 Resp: 17178  
Ion Ratio Lower Upper  
165 100  
63 2.2 44.1 66.1#  
89 2.4 44.9 67.3#

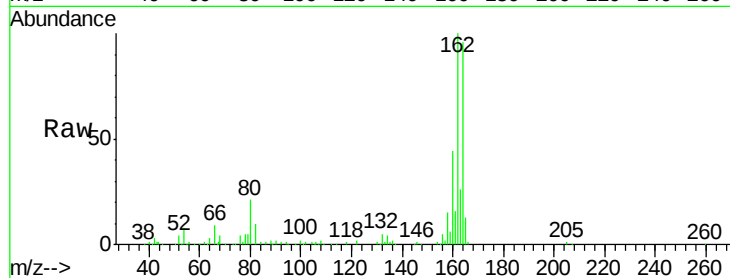




#57  
 2,4-Dinitrotoluene  
 Concen: 5.262 ng  
 RT: 14.68 min Scan# 1972  
 Delta R.T. -0.37 min  
 Lab File: BG040554.D  
 Acq: 18 Apr 2019 7:14

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.2   | 33.8  | 50.6# |
| 89      | 2.4   | 55.4  | 83.2# |
| 182     | 0.0   | 2.2   | 3.4#  |

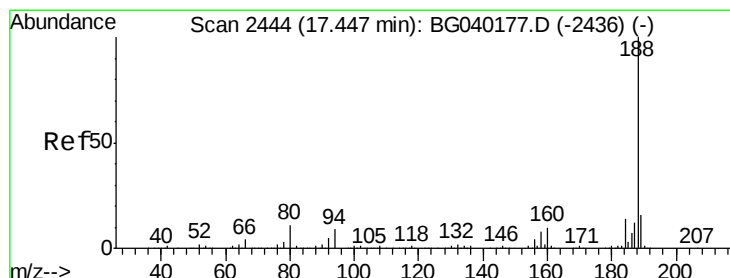
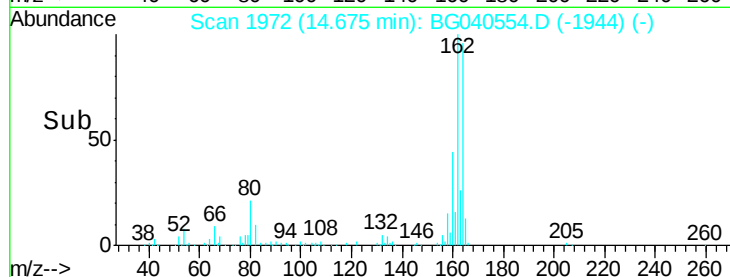
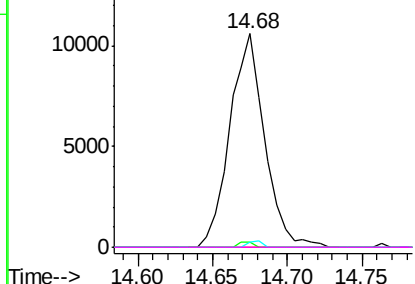


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

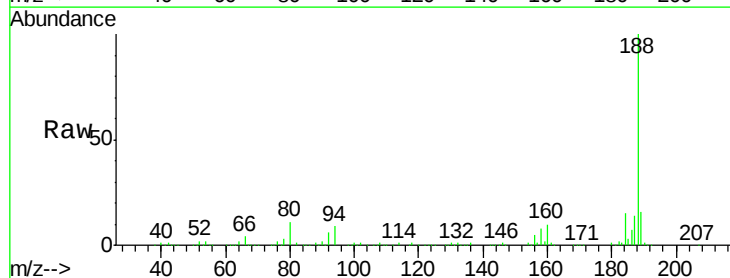
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2439  
 Delta R.T. -0.00 min  
 Lab File: BG040554.D  
 Acq: 18 Apr 2019 7:14

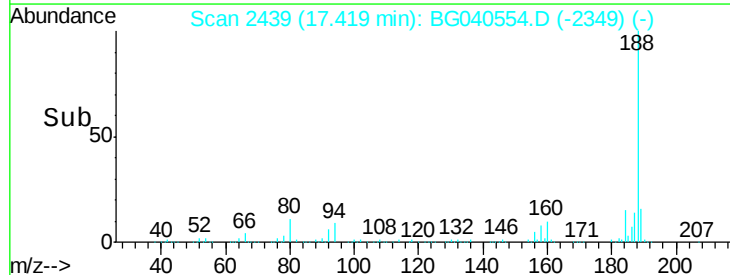
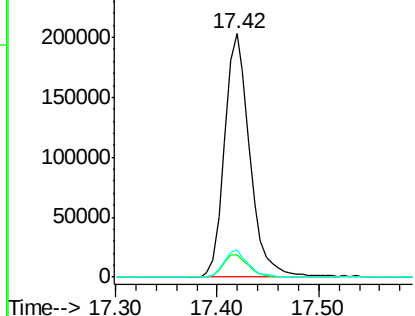
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.0   | 7.0   | 10.4  |
| 80      | 11.0  | 8.6   | 13.0  |



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

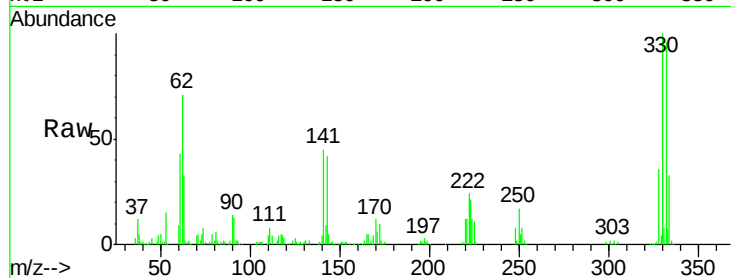




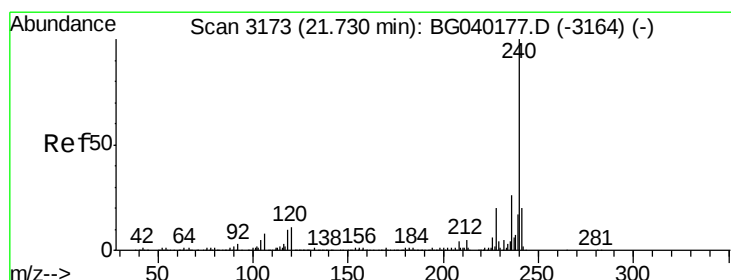
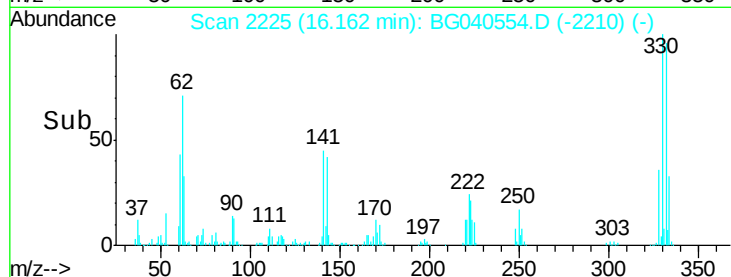
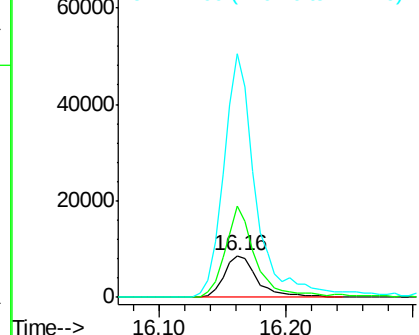
#67  
4-Bromophenyl-phenylether  
Concen: 3.994 ng  
RT: 16.16 min Scan# 2225  
Delta R.T. -0.44 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 15761  
Ion Ratio Lower Upper  
248 100  
250 217.7 76.4 114.6#  
141 583.8 53.8 80.8#

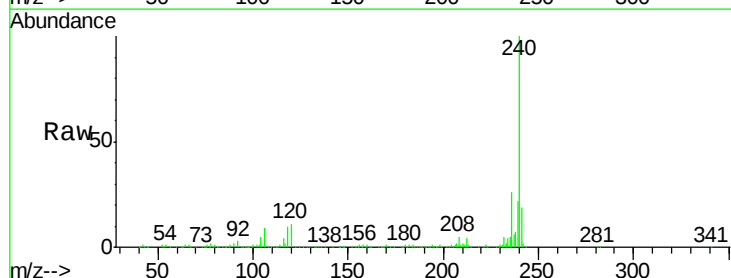


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

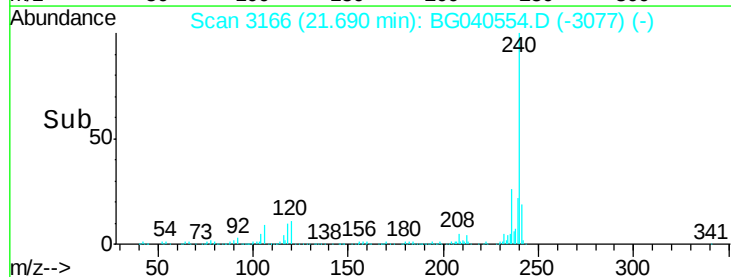
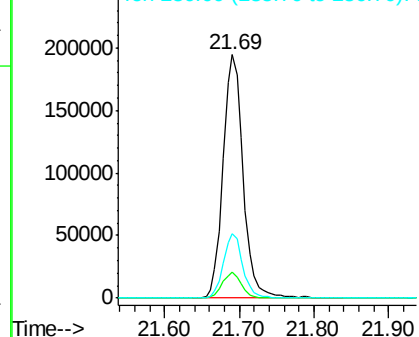


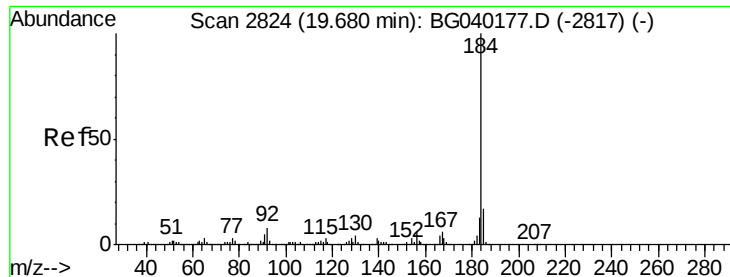
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3166  
Delta R.T. -0.01 min  
Lab File: BG040554.D  
Acq: 18 Apr 2019 7:14

Tgt Ion:240 Resp: 362092  
Ion Ratio Lower Upper  
240 100  
120 10.9 8.4 12.6  
236 26.5 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





#77

Benzidine

Concen: 2.089 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.37 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

Instrument :

BNA\_G

ClientSampleId :

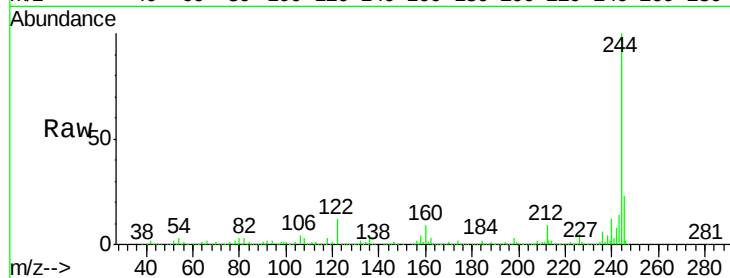
Tot Ion:184 Resp: 27317

Ion Ratio Lower Upper

184 100

185 14.3 13.3 19.9

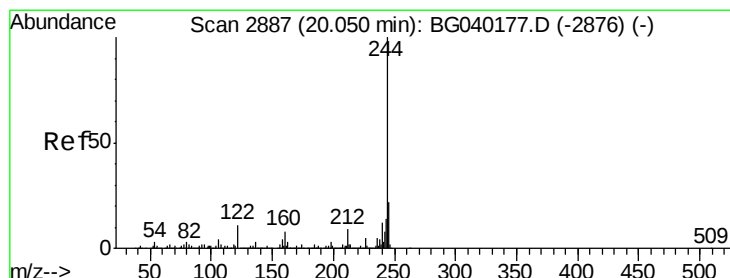
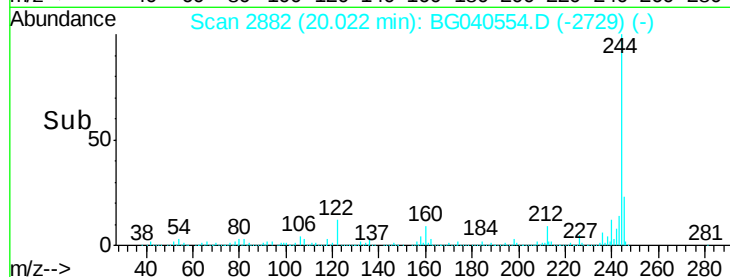
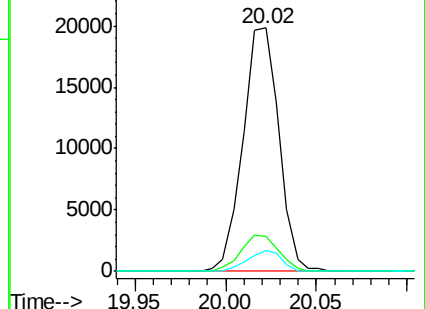
183 8.4 10.3 15.5#



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: 95.525 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG040554.D

Acq: 18 Apr 2019 7:14

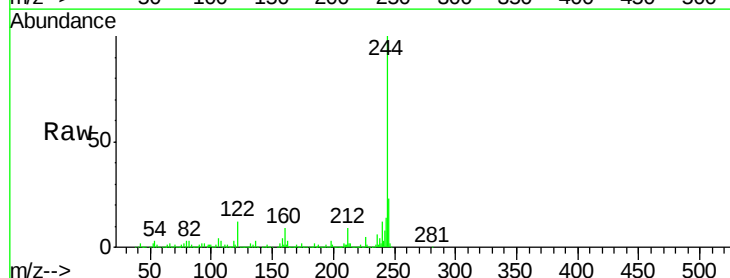
Tgt Ion:244 Resp: 1537521

Ion Ratio Lower Upper

244 100

212 9.1 7.0 10.6

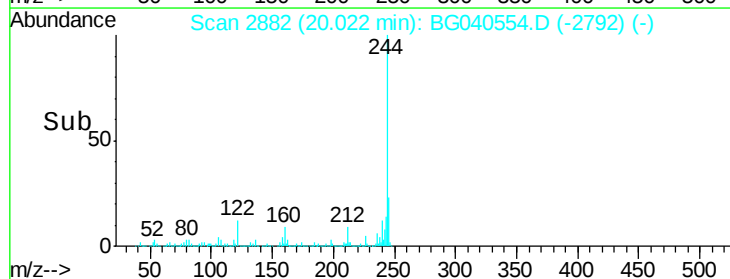
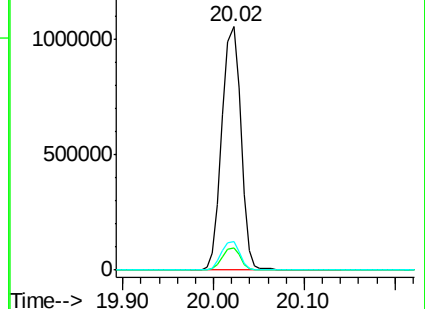
122 12.0 8.5 12.7

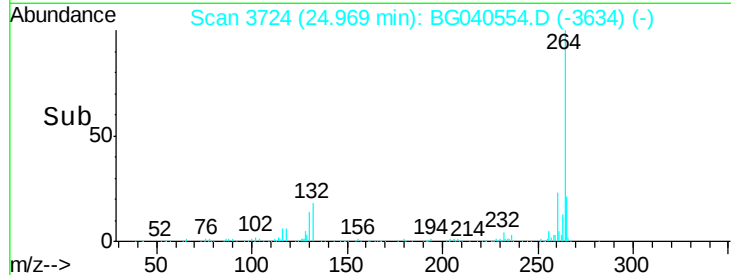
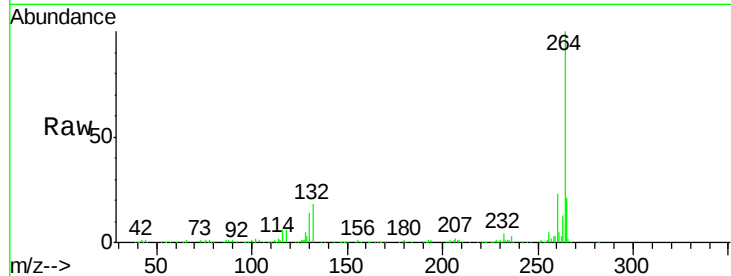
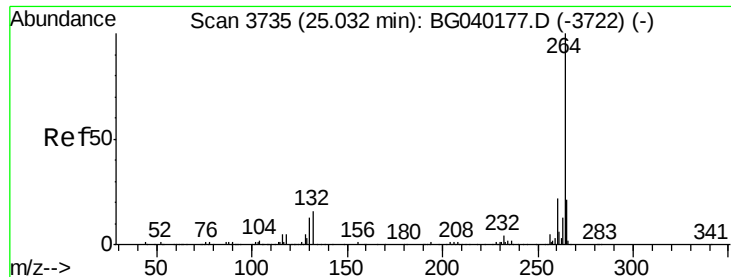


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.97 min Scan# 3724  
 Delta R.T. -0.00 min  
 Lab File: BG040554.D  
 Acq: 18 Apr 2019 7:14

Instrument :  
 BNA\_G  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 386094 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.4  | 17.9  | 26.9   |
| 265      | 21.3  | 16.8  | 25.2   |

