

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040919\  
 Data File : BG040408.D  
 Acq On : 9 Apr 2019 21:07  
 Operator : JU/SJ  
 Sample : K2332-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 10 00:52:58 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

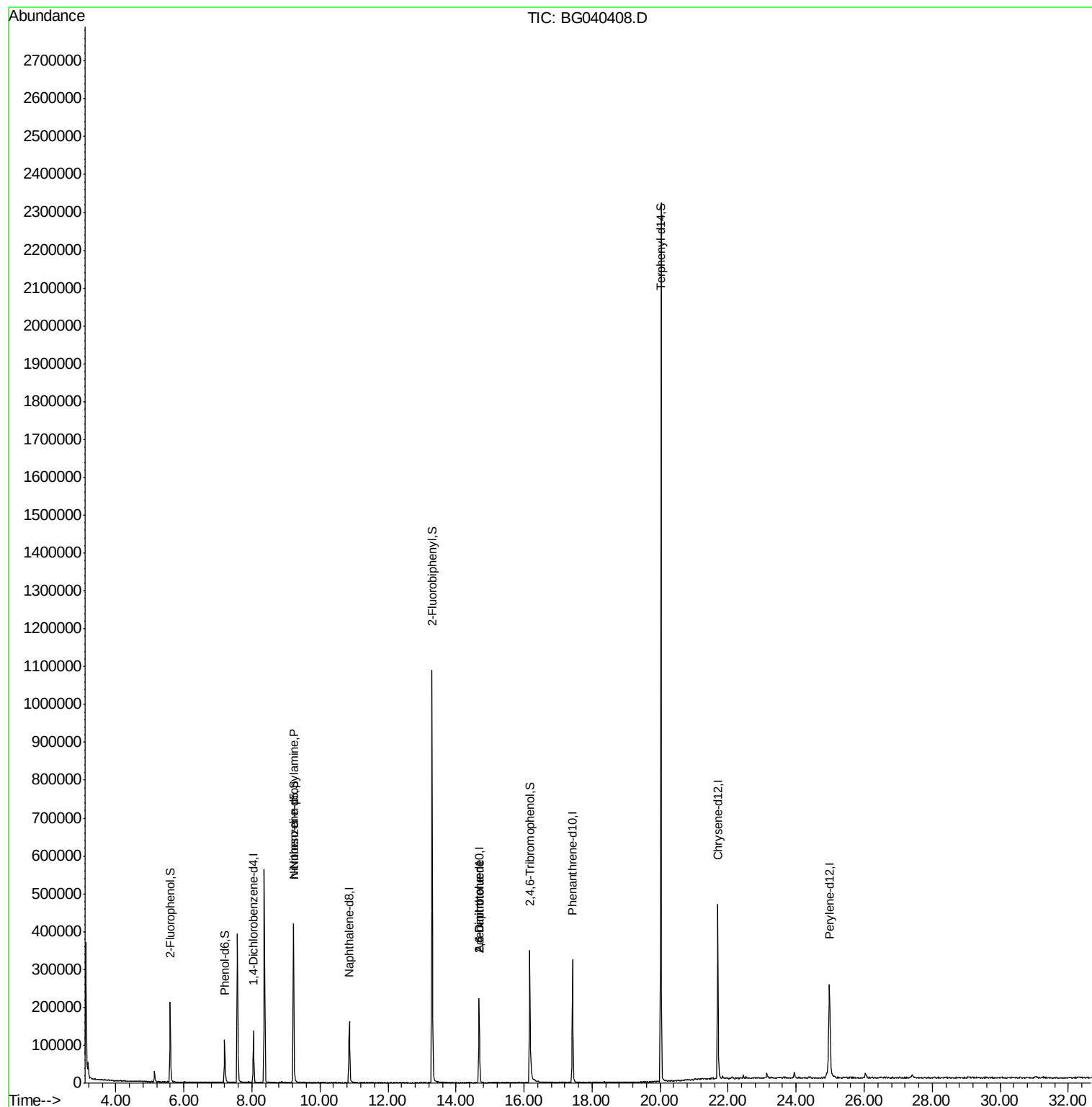
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 40179    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 151135   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 91775    | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.42 | 188  | 235400   | 20.00  | ng    | -0.03    |
| 76) Chrysene-d12               | 21.70 | 240  | 296307   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 24.98 | 264  | 305156   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 100275   | 41.49  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.20  | 99   | 76728    | 22.97  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 278395   | 97.91  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 82493    | 83.17  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 620140   | 100.13 | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.02 | 244  | 1087845  | 82.59  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 35509    | 14.827 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 11918    | 7.390  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 11918    | 5.318  | ng    | # 24     |

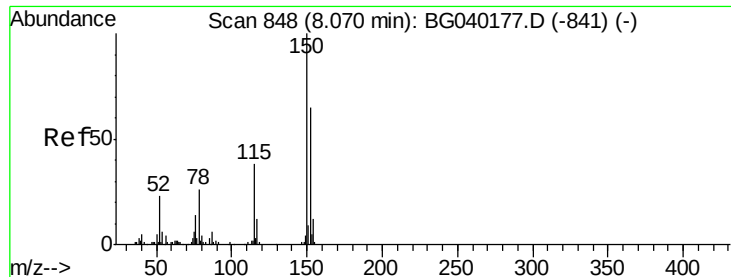
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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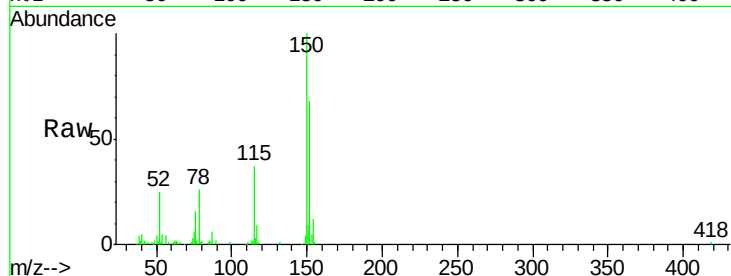


#1

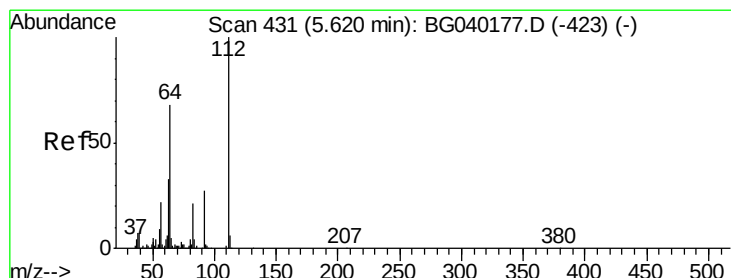
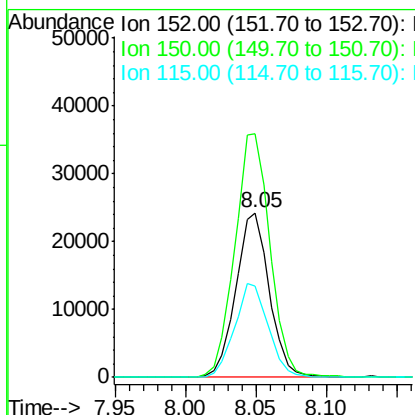
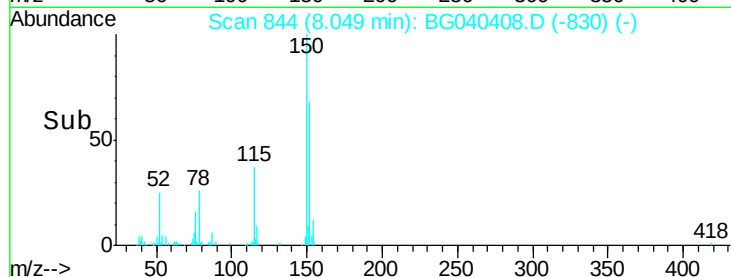
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.02 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 40179  
Ion Ratio Lower Upper  
152 100  
150 148.0 123.7 185.5  
115 55.2 46.9 70.3



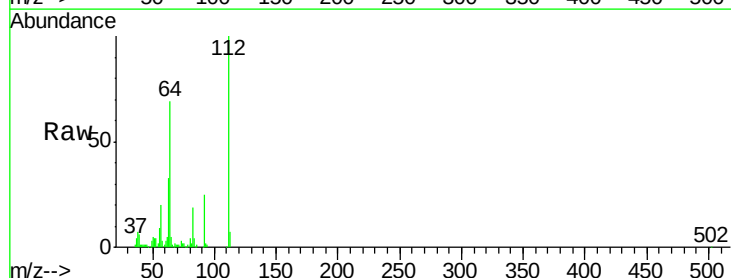
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



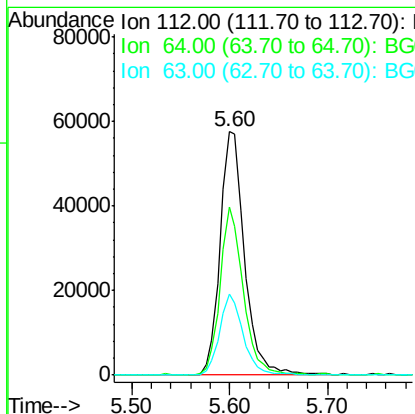
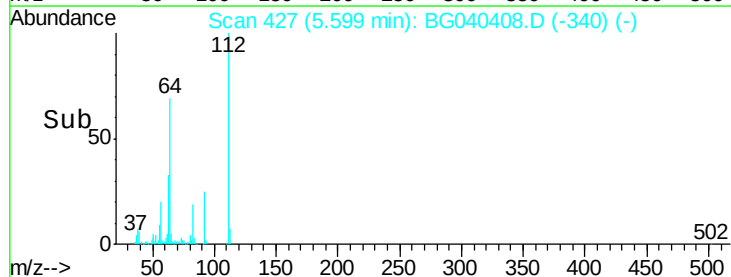
#5

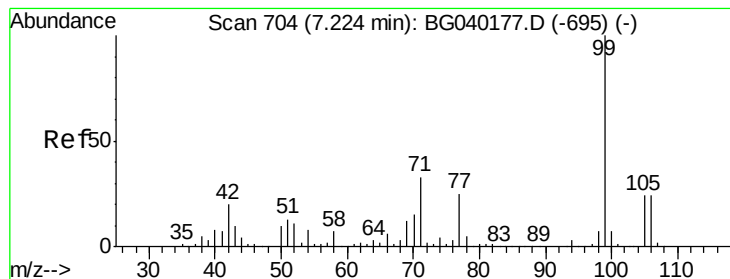
2-Fluorophenol  
Concen: 41.489 ng  
RT: 5.60 min Scan# 427  
Delta R.T. -0.02 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

Tgt Ion:112 Resp: 100275  
Ion Ratio Lower Upper  
112 100  
64 68.8 54.2 81.2  
63 33.2 26.4 39.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 22.971 ng

RT: 7.20 min Scan# 699

Delta R.T. -0.03 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

Instrument :

BNA\_G

ClientSampled :

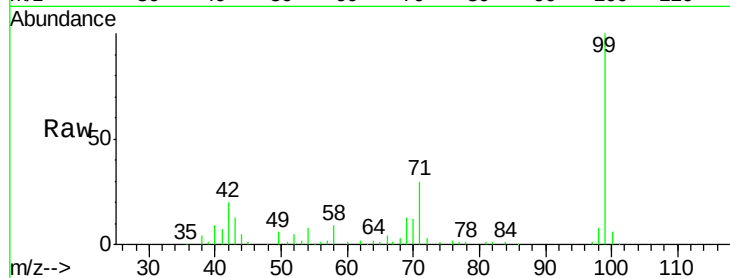
Tot Ion: 99 Resp: 76728

Ion Ratio Lower Upper

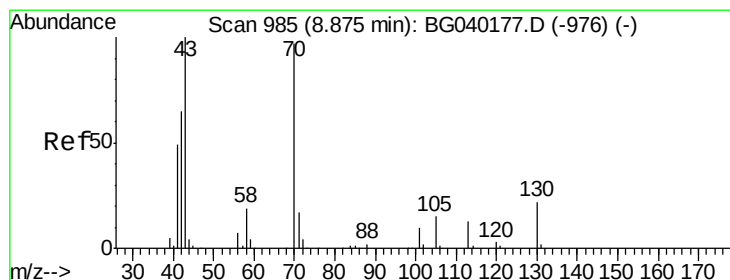
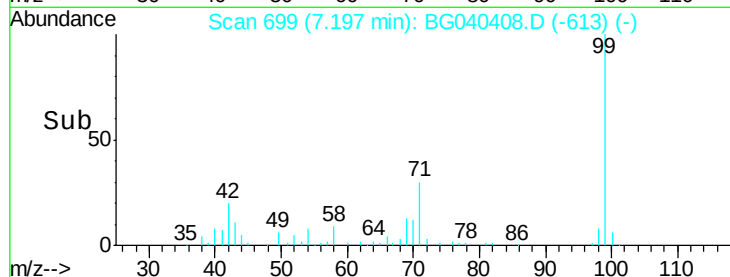
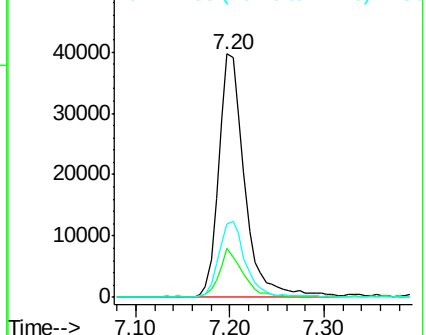
99 100

42 20.1 16.2 24.2

71 30.2 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: 14.827 ng

RT: 9.22 min Scan# 1044

Delta R.T. 0.35 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

Tgt Ion: 70 Resp: 35509

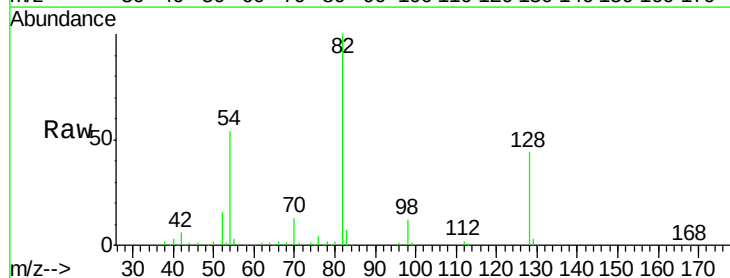
Ion Ratio Lower Upper

70 100

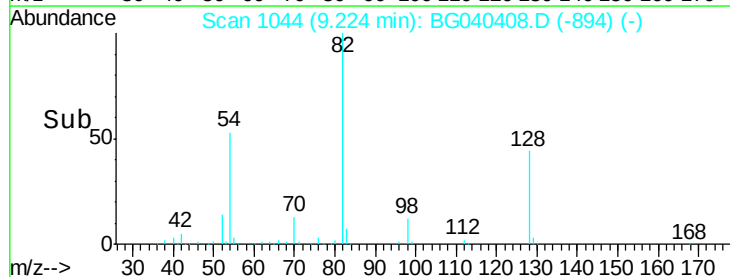
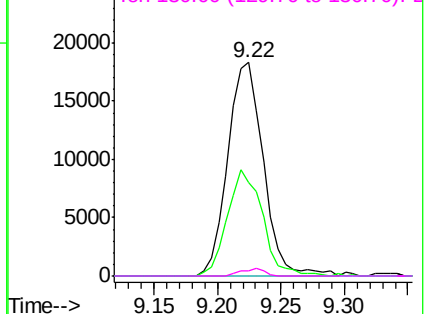
42 43.9 54.0 81.0#

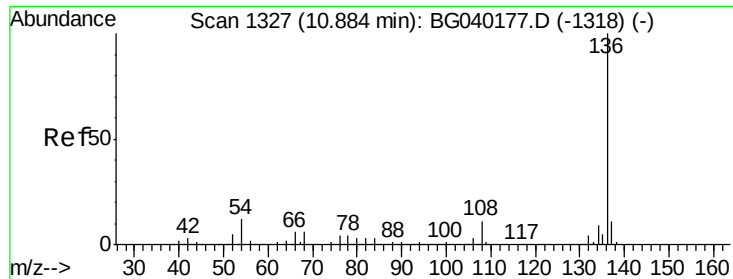
101 0.0 8.6 13.0#

130 2.2 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

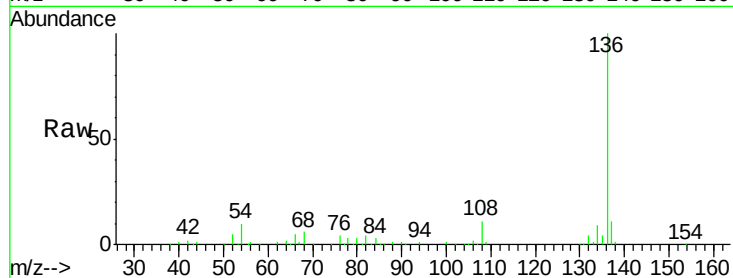




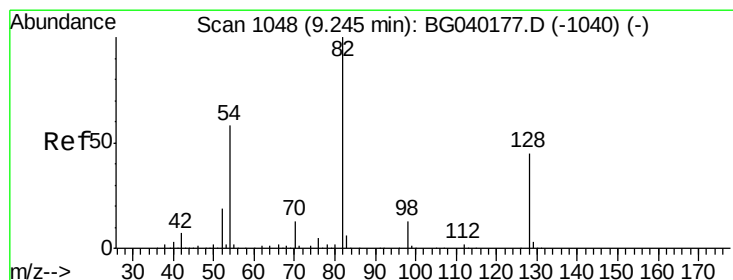
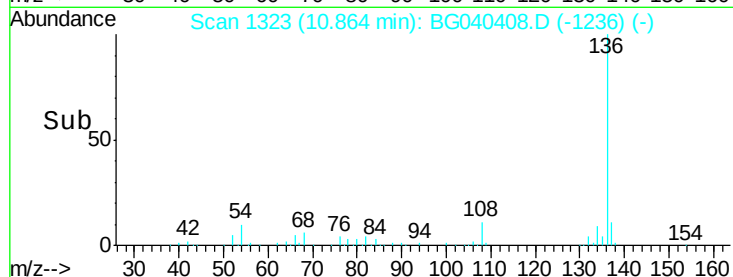
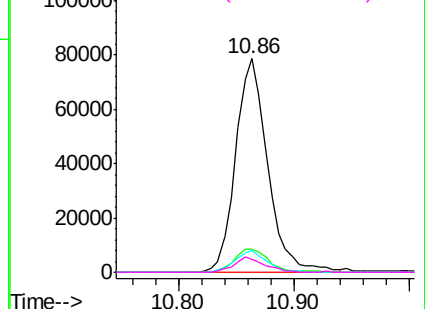
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 151135      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.6  | 8.9 13.3    |
| 54          | 10.4  | 9.6 14.4    |
| 68          | 6.3   | 5.1 7.7     |

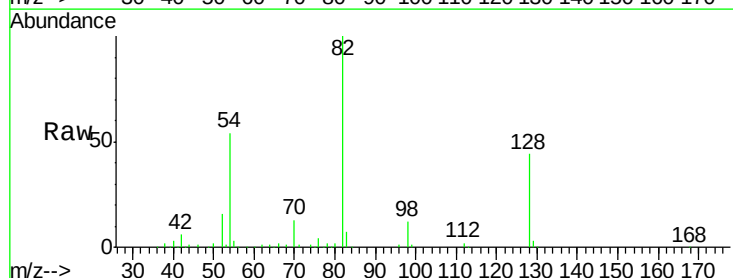


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

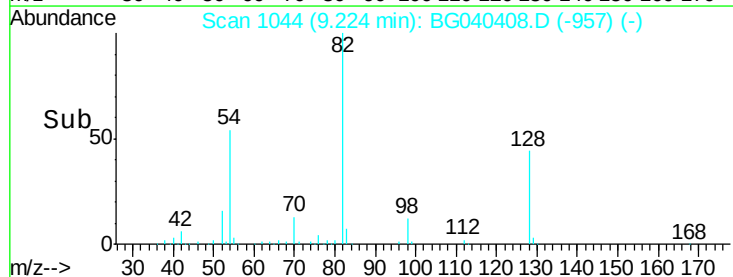
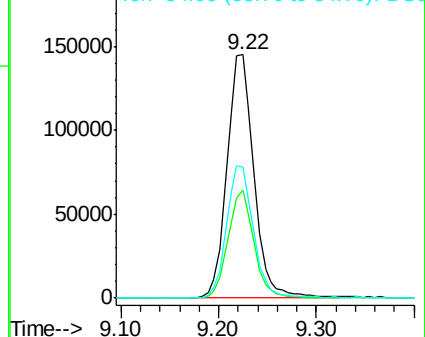


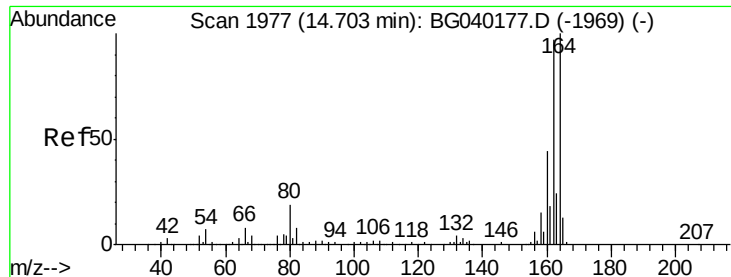
#23  
Nitrobenzene-d5  
Concen: 97.910 ng  
RT: 9.22 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 278395      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.1  | 35.8 53.8   |
| 54          | 53.9  | 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: 14.68 min Scan# 1972

Delta R.T. -0.03 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

Instrument :

BNA\_G

ClientSampleId :

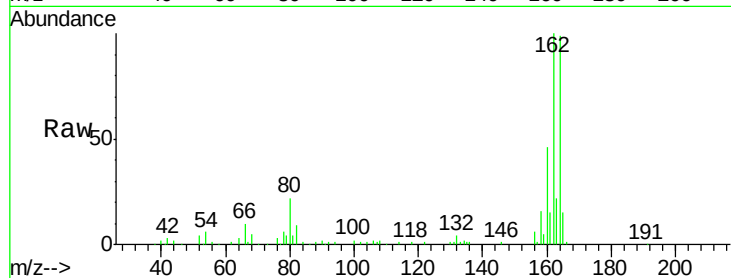
Tot Ion:164 Resp: 91775

Ion Ratio Lower Upper

164 100

162 101.1 77.4 116.2

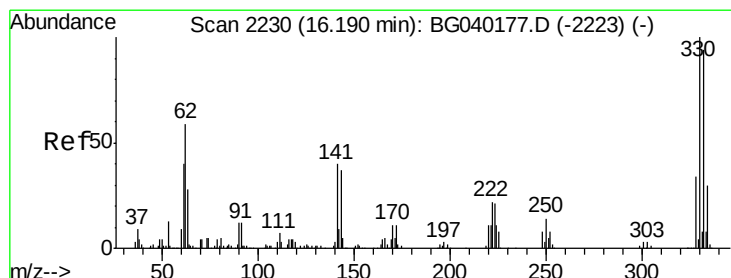
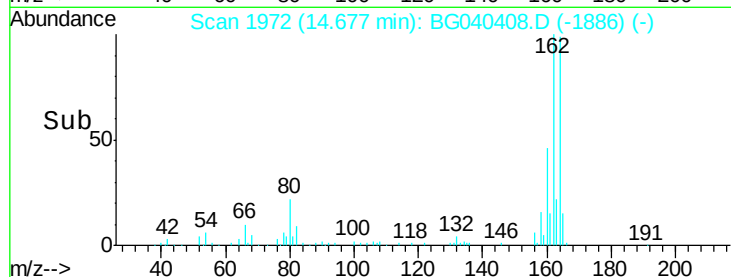
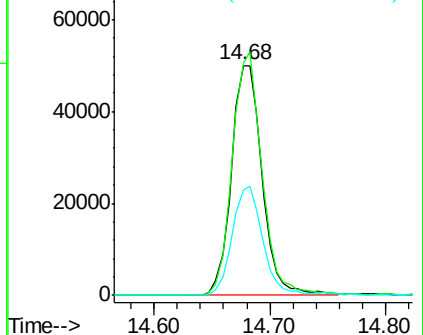
160 46.1 35.3 52.9



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: 83.171 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.02 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

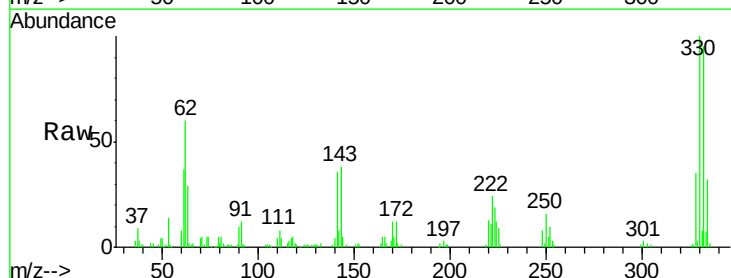
Tgt Ion:330 Resp: 82493

Ion Ratio Lower Upper

330 100

332 94.3 76.6 115.0

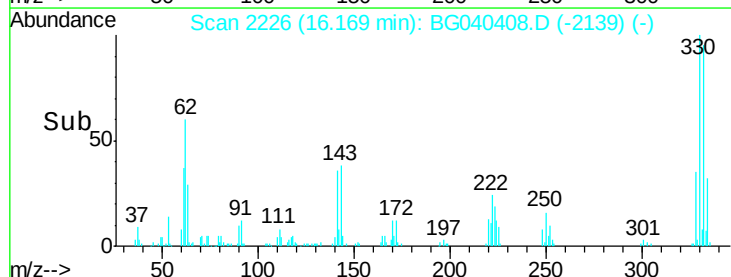
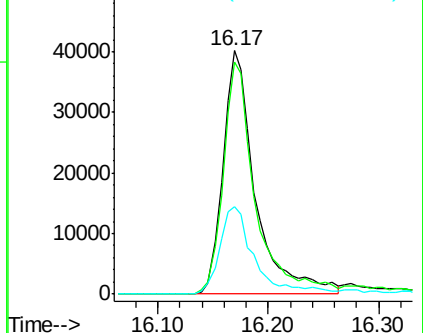
141 38.1 32.6 48.8

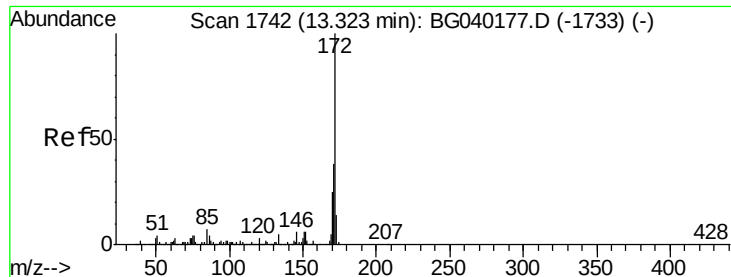


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

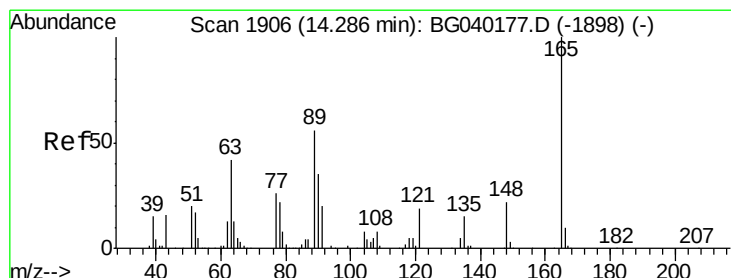
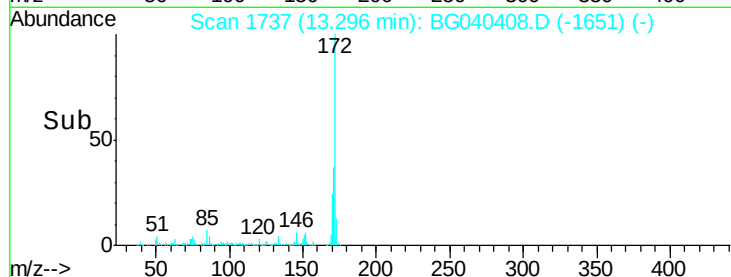
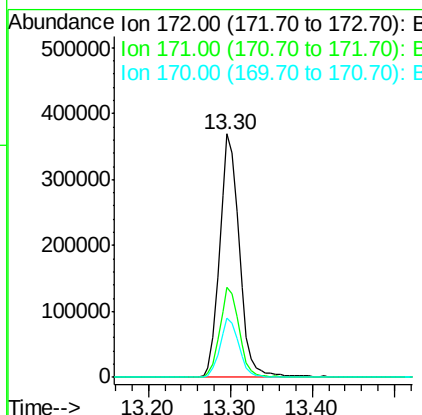
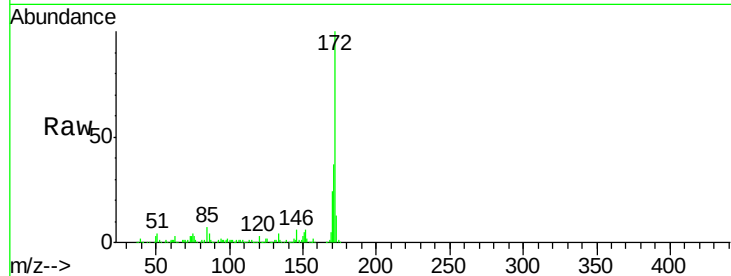




#45  
2-Fluorobiphenyl  
Concen: 100.125 ng  
RT: 13.30 min Scan# 1737  
Delta R.T. -0.03 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

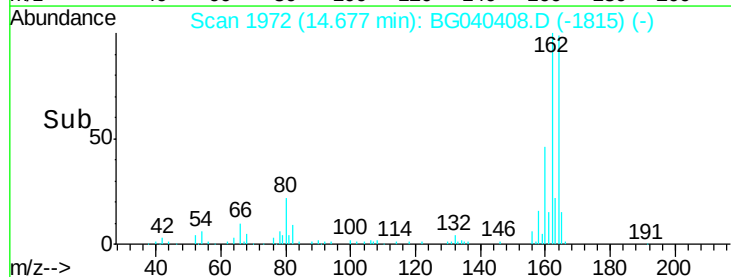
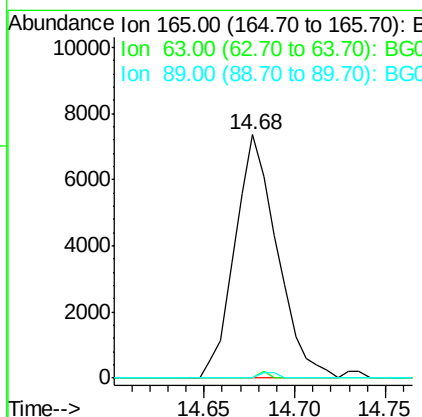
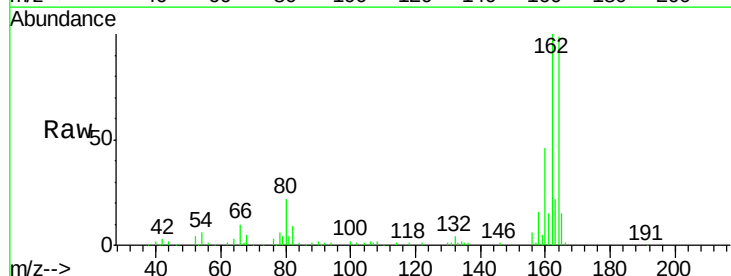
Instrument :  
BNA\_G  
ClientSampled :

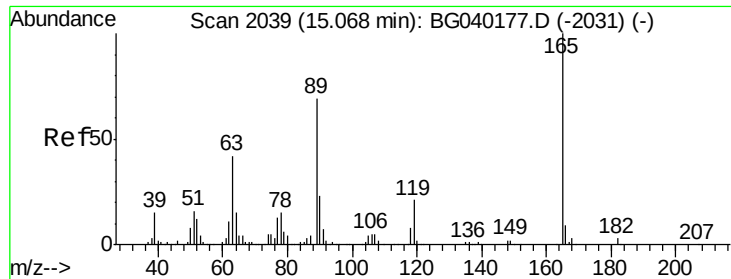
Tot Ion:172 Resp: 620140  
Ion Ratio Lower Upper  
172 100  
171 37.2 30.5 45.7  
170 24.4 20.1 30.1



#51  
2,6-Dinitrotoluene  
Concen: 7.390 ng  
RT: 14.68 min Scan# 1972  
Delta R.T. 0.39 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

Tgt Ion:165 Resp: 11918  
Ion Ratio Lower Upper  
165 100  
63 0.0 44.1 66.1#  
89 0.0 44.9 67.3#

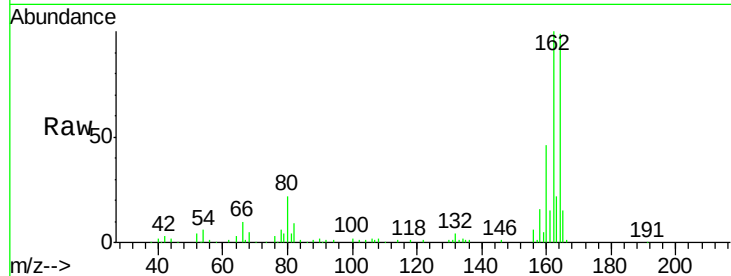




#57  
 2,4-Dinitrotoluene  
 Concen: 5.318 ng  
 RT: 14.68 min Scan# 1972  
 Delta R.T. -0.39 min  
 Lab File: BG040408.D  
 Acq: 9 Apr 2019 21:07

Instrument :  
 BNA\_G  
 ClientSampled :

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

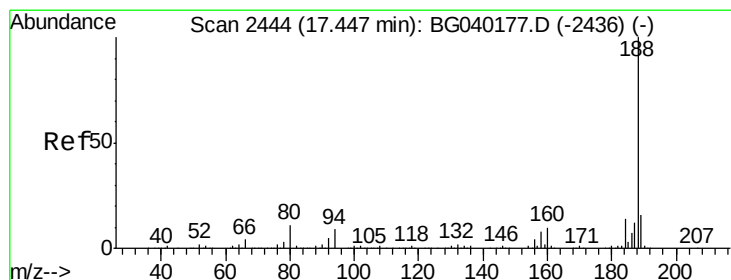
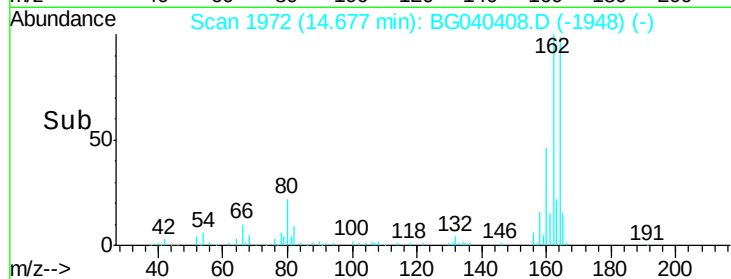
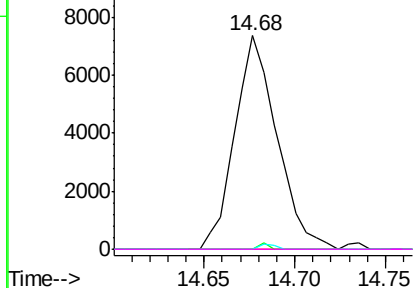


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

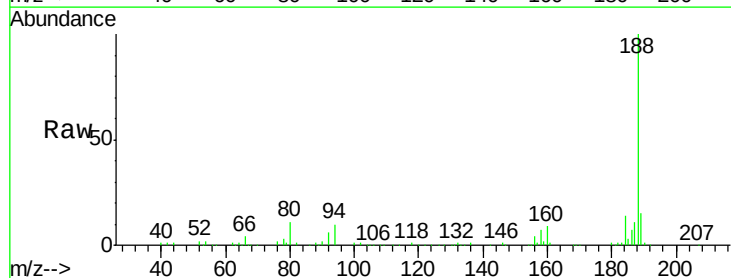
Ion 89.00 (88.70 to 89.70): BGC

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. -0.03 min  
 Lab File: BG040408.D  
 Acq: 9 Apr 2019 21:07

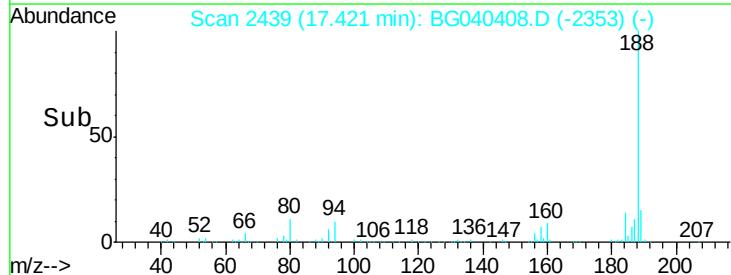
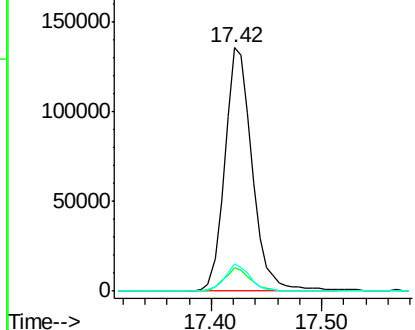
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.5   | 7.0   | 10.4  |
| 80      | 11.0  | 8.6   | 13.0  |



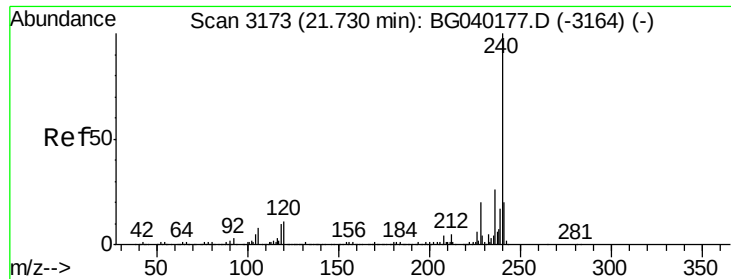
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC







#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3167

Delta R.T. -0.03 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

Instrument :

BNA\_G

ClientSampleId :

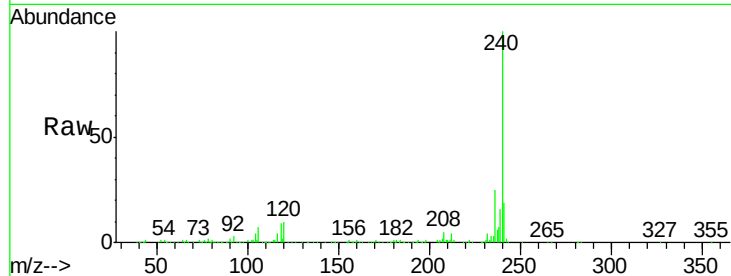
Tot Ion:240 Resp: 296307

Ion Ratio Lower Upper

240 100

120 9.9 8.4 12.6

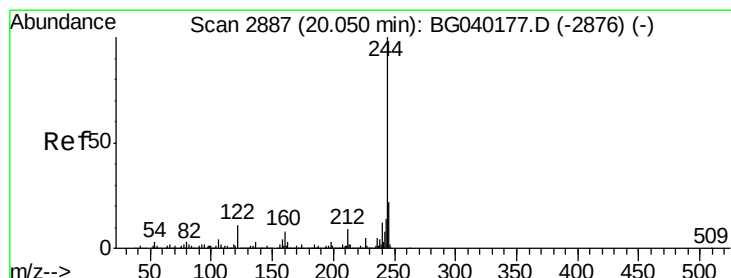
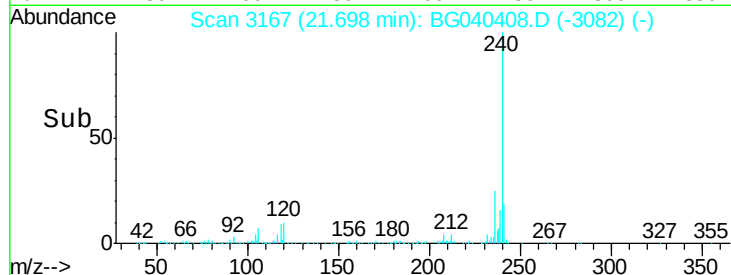
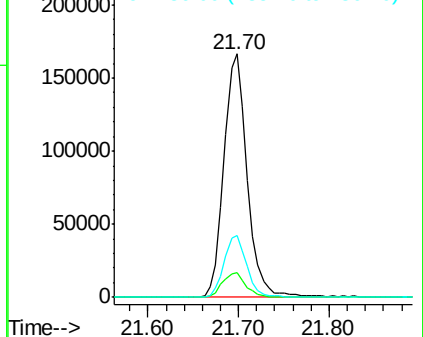
236 25.2 20.8 31.2



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: 82.593 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.03 min

Lab File: BG040408.D

Acq: 9 Apr 2019 21:07

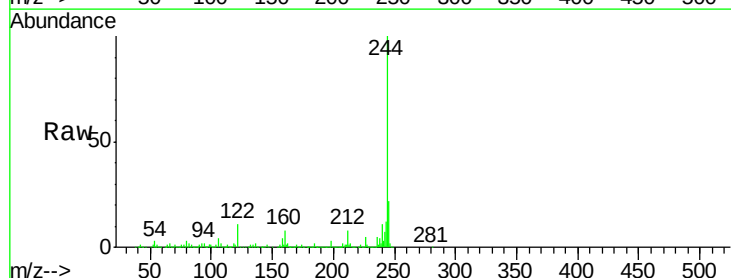
Tgt Ion:244 Resp: 1087845

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.6

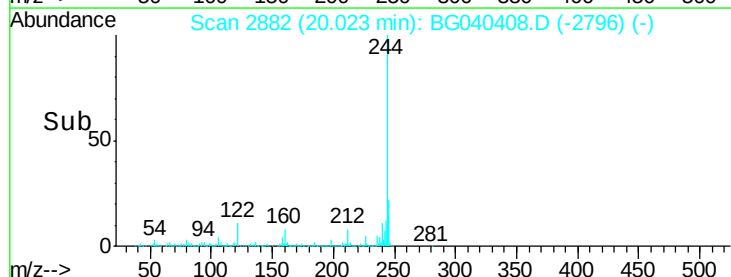
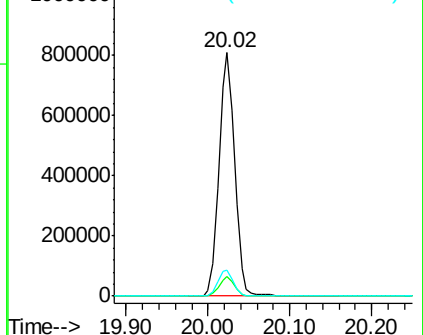
122 10.6 8.5 12.7

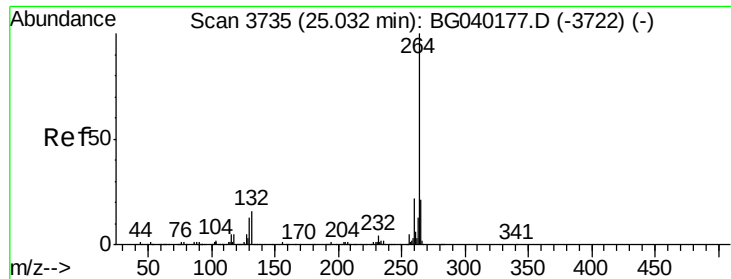


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.98 min Scan# 3725  
Delta R.T. -0.06 min  
Lab File: BG040408.D  
Acq: 9 Apr 2019 21:07

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 305156 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.6  | 17.9  | 26.9   |
| 265      | 20.7  | 16.8  | 25.2   |

