

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032219\  
 Data File : BG040109.D  
 Acq On : 23 Mar 2019 9:32  
 Operator : JU/SJ  
 Sample : K2035-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 23 22:17:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

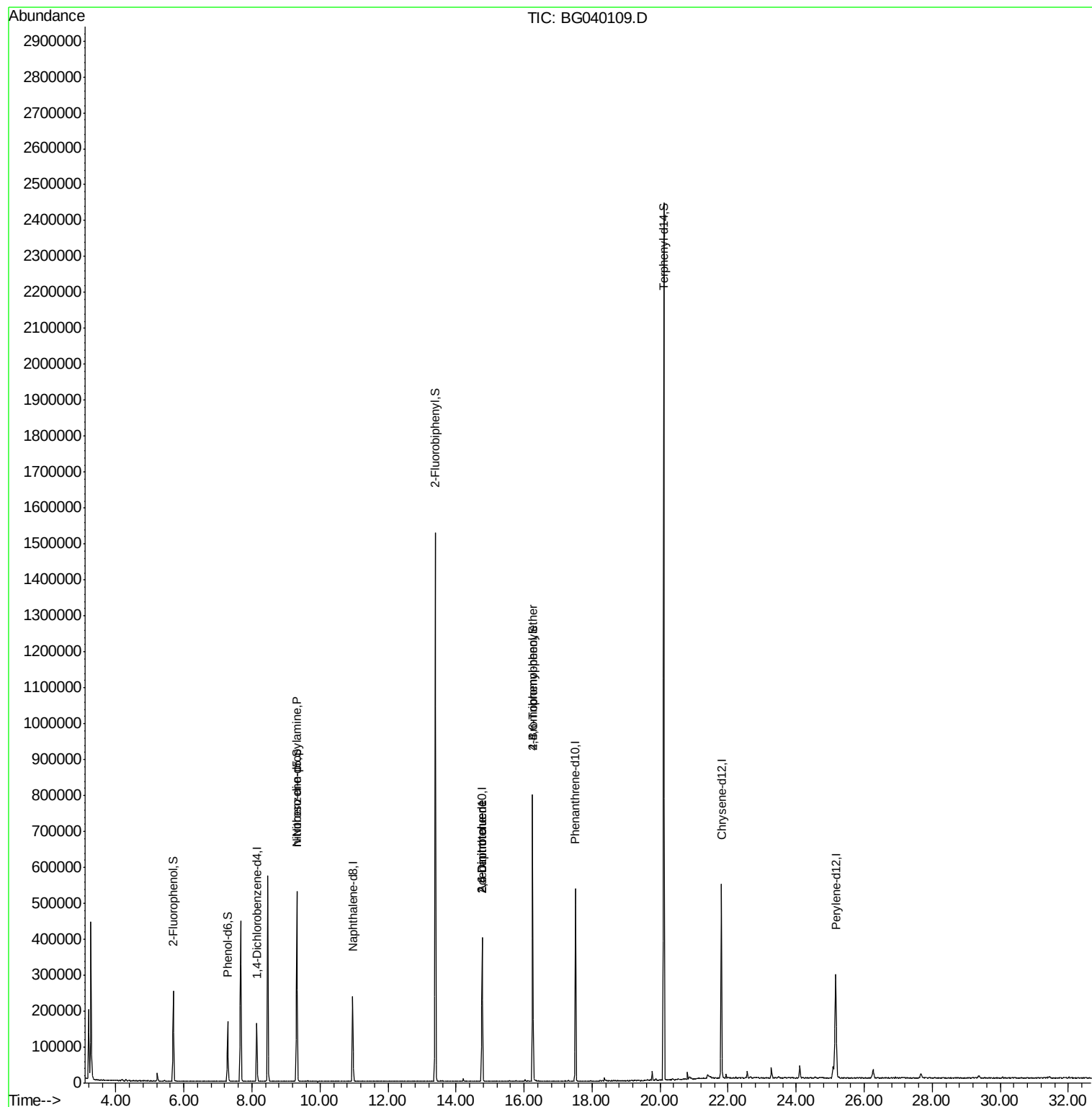
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.14  | 152  | 45816    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.96 | 136  | 202083   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 14.77 | 164  | 141845   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.51 | 188  | 341388   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.80 | 240  | 331515   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 25.16 | 264  | 334248   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.69  | 112  | 108551   | 40.42  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.28  | 99   | 100386   | 25.07  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 9.32  | 82   | 322169   | 86.22  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.25 | 330  | 142251   | 86.04  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.39 | 172  | 817978   | 82.11  | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.11 | 244  | 1111102  | 73.80  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.32  | 70   | 42345    | 14.692 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 18569    | 7.385  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 18569    | 5.256  | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether  | 16.25 | 248  | 11244    | 2.942  | ng    | # 1      |

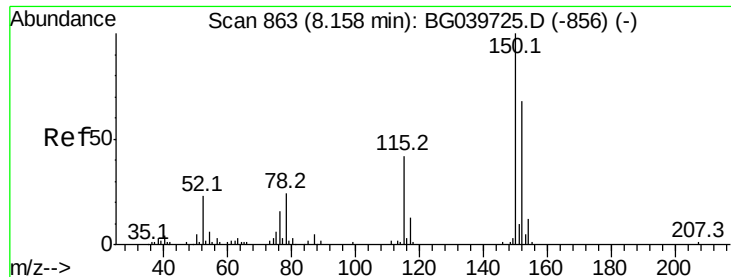
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG032219\  
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Sample : K2035-15  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 23 22:17:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 04 14:38:15 2019  
Response via : Initial Calibration



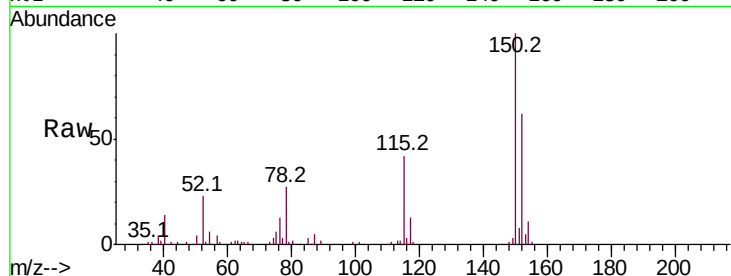


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.14 min Scan# 860  
Delta R.T. -0.03 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.0 | 123.7 | 185.5 |
| 115     | 67.4  | 45.9  | 68.9  |

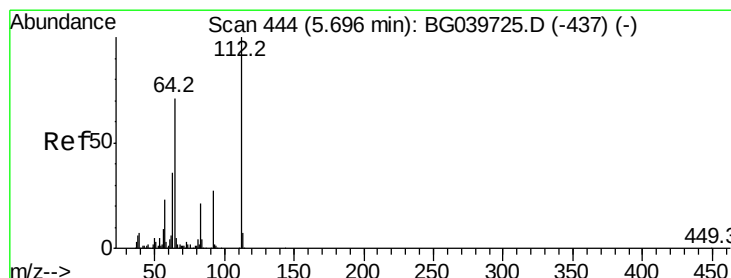
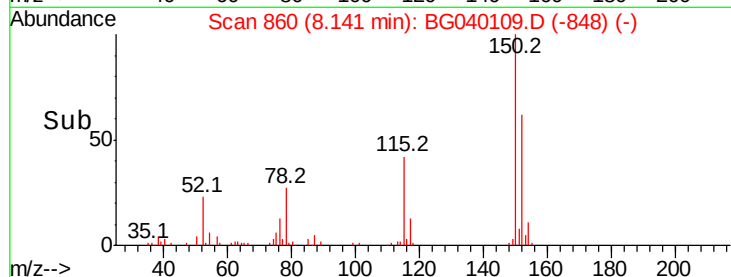
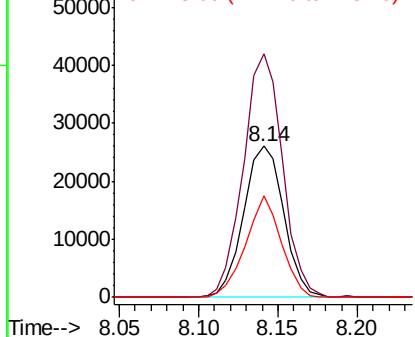


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

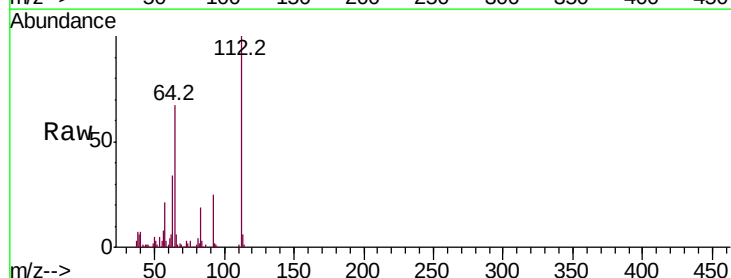
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 40.420 ng  
RT: 5.69 min Scan# 442  
Delta R.T. -0.02 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.2  | 57.8  | 86.8  |
| 63      | 34.0  | 29.8  | 44.6  |

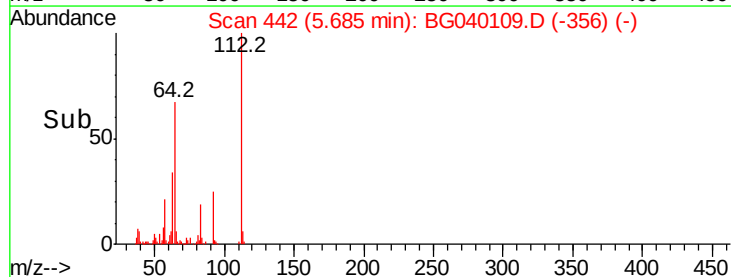
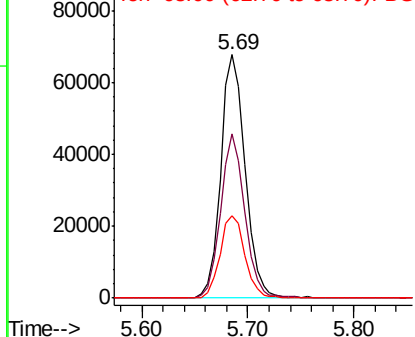


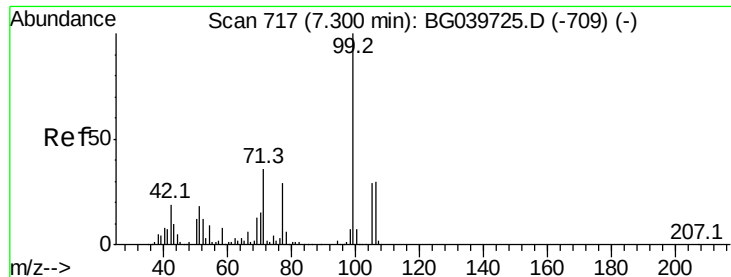
Abundance

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: 25.069 ng

RT: 7.28 min Scan# 714

Delta R.T. -0.03 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

Instrument :

BNA\_G

ClientSampleId :

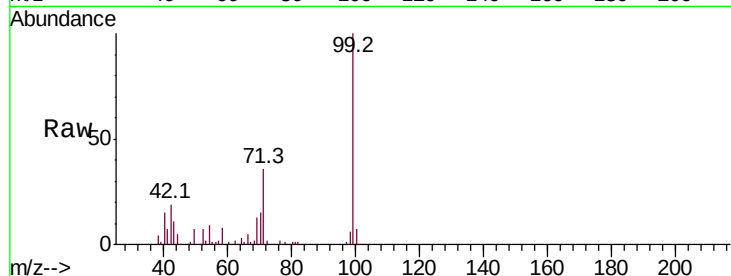
Tot Ion: 99 Resp: 100386

Ion Ratio Lower Upper

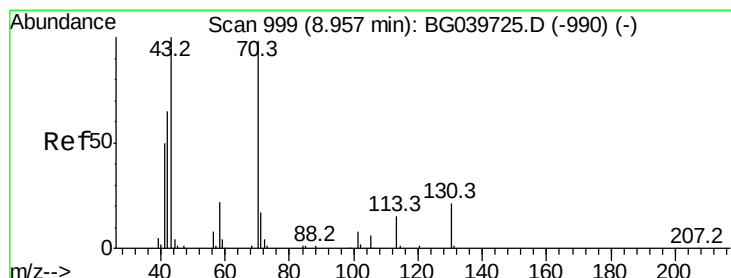
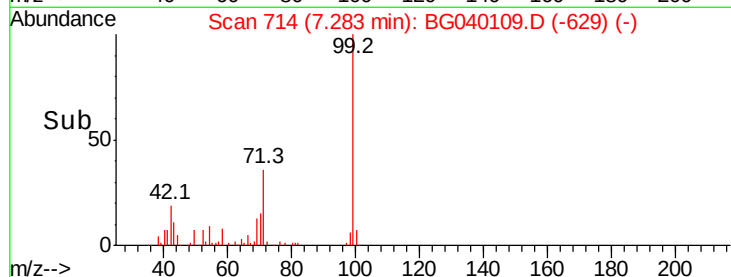
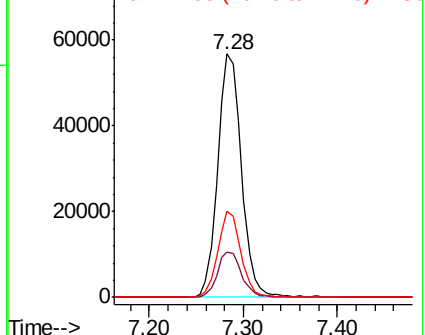
99 100

42 18.7 18.2 27.2

71 35.6 28.0 42.0



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: 14.692 ng

RT: 9.32 min Scan# 1060

Delta R.T. 0.35 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

Tgt Ion: 70 Resp: 42345

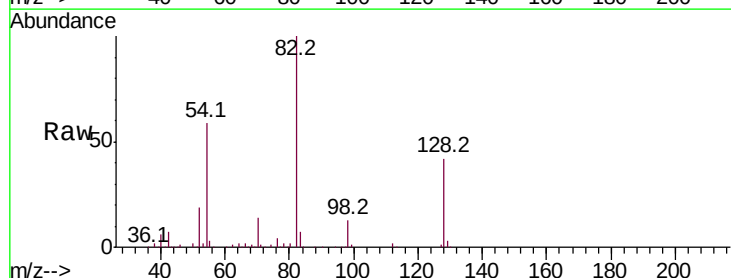
Ion Ratio Lower Upper

70 100

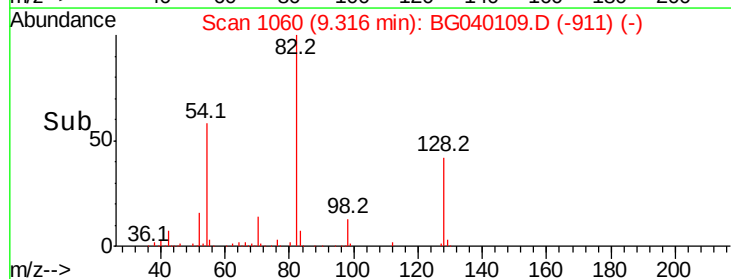
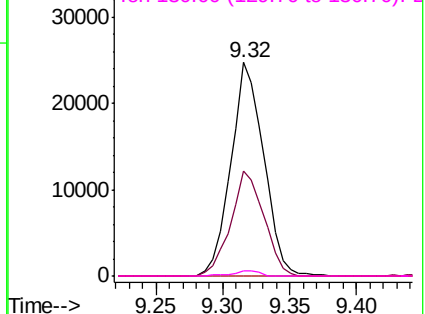
42 49.2 60.4 90.6#

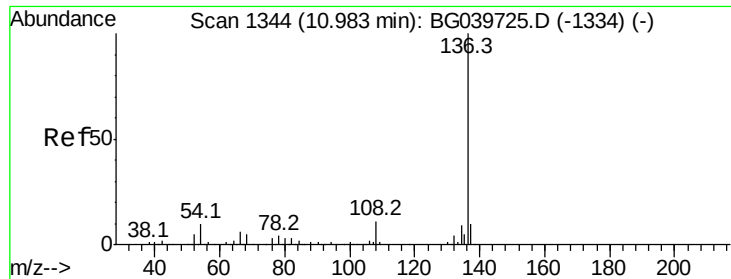
101 0.0 7.5 11.3#

130 2.2 16.9 25.3#



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

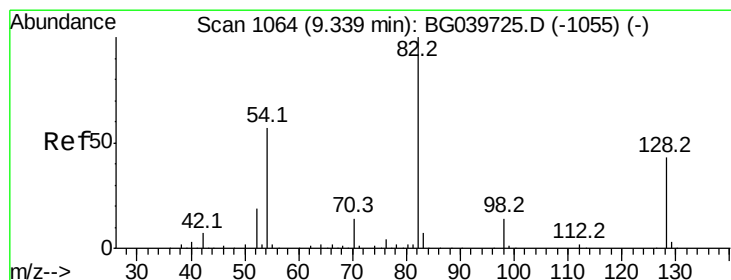
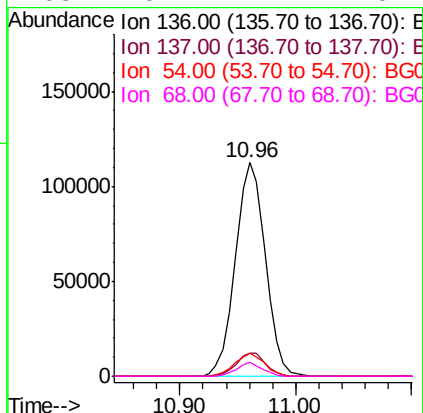
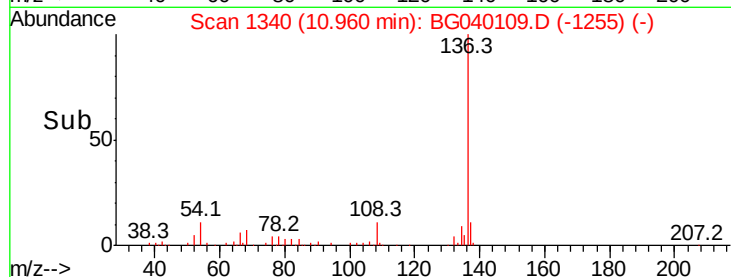
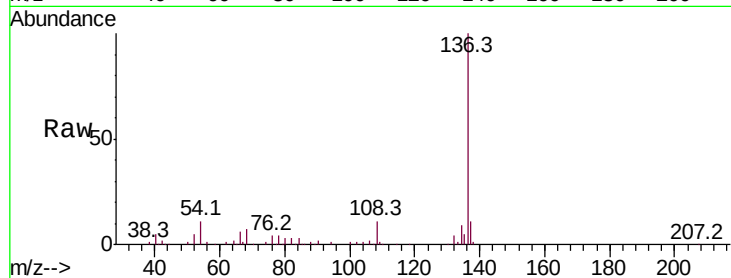




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.96 min Scan# 1340  
Delta R.T. -0.03 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

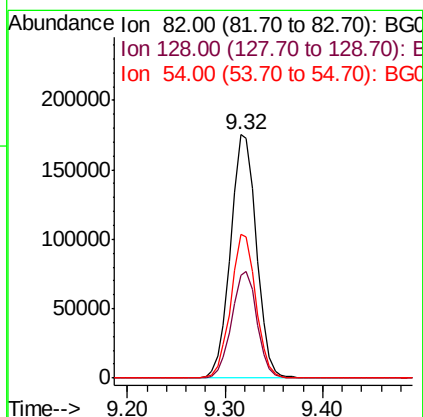
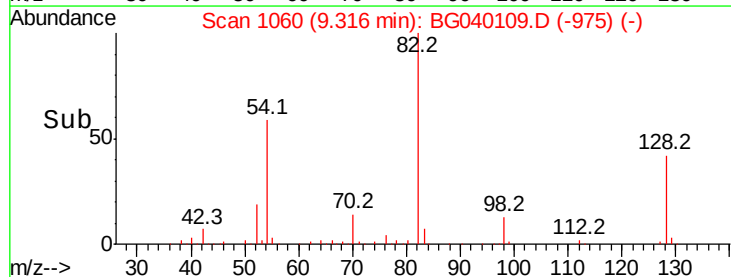
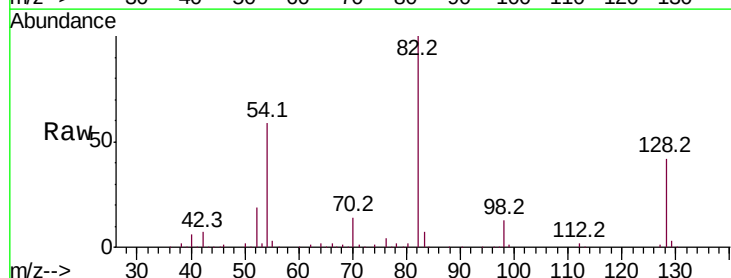
Instrument :  
BNA\_G  
ClientSampleId :

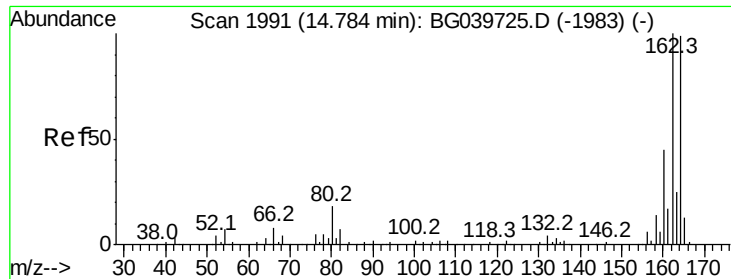
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 202083      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 9.1 13.7    |
| 54          | 10.8  | 9.4 14.2    |
| 68          | 6.7   | 4.2 6.4#    |



#23  
Nitrobenzene-d5  
Concen: 86.223 ng  
RT: 9.32 min Scan# 1060  
Delta R.T. -0.03 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 322169      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 42.5  | 31.3 46.9   |
| 54          | 58.8  | 50.9 76.3   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.77 min Scan# 1988

Delta R.T. -0.02 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

Instrument :

BNA\_G

ClientSampleId :

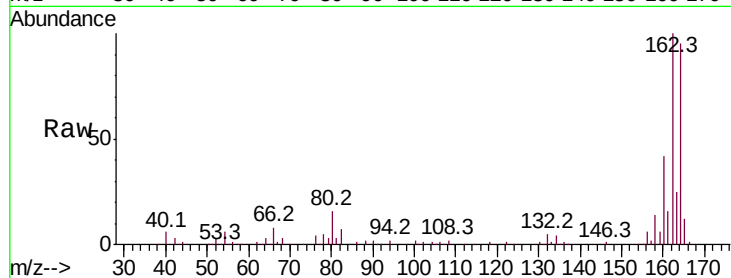
Tot Ion:164 Resp: 141845

Ion Ratio Lower Upper

164 100

162 105.7 81.6 122.4

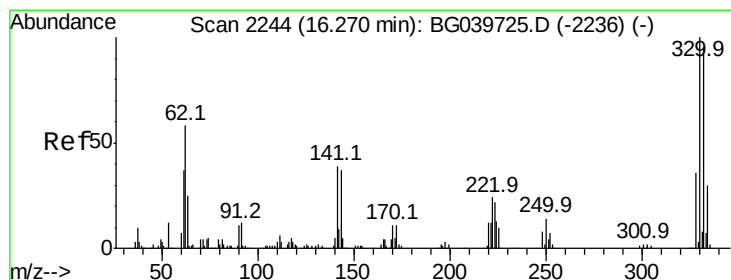
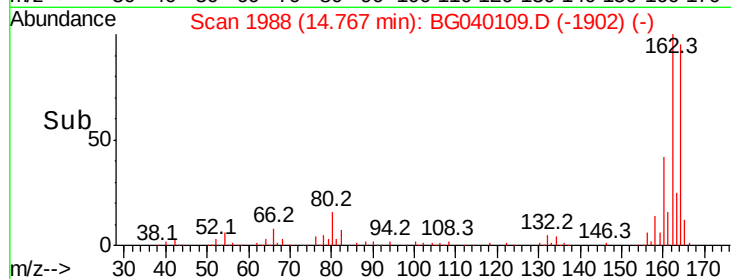
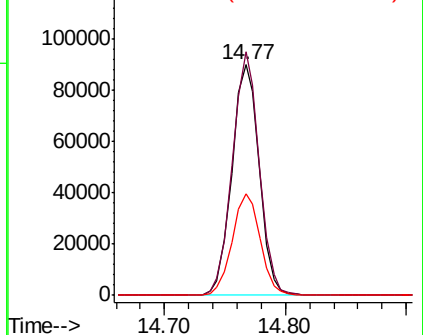
160 44.2 34.2 51.2



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: 86.040 ng

RT: 16.25 min Scan# 2241

Delta R.T. -0.02 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

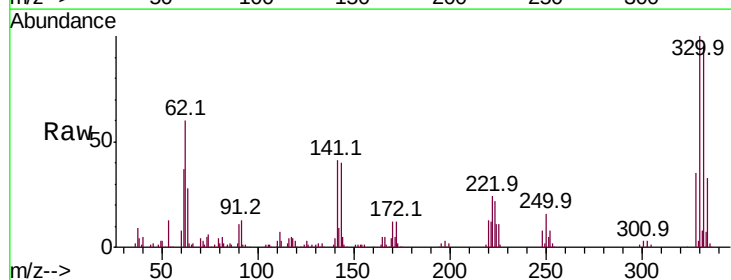
Tgt Ion:330 Resp: 142251

Ion Ratio Lower Upper

330 100

332 95.4 75.7 113.5

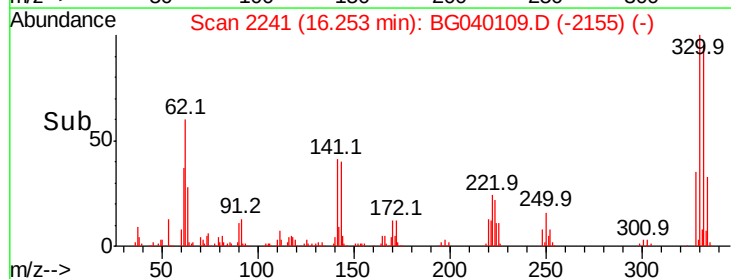
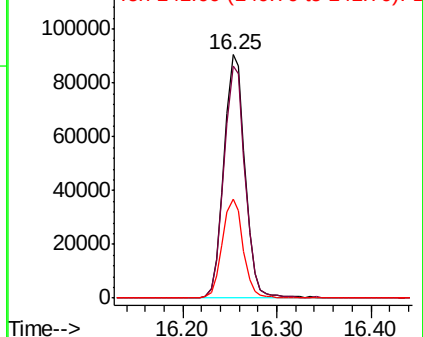
141 40.2 35.6 53.4

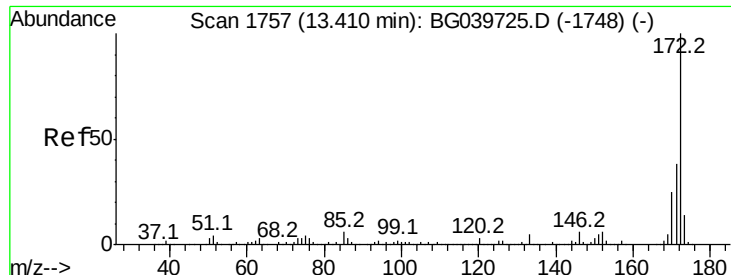


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

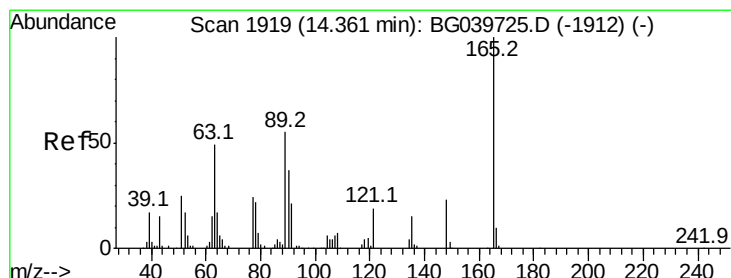
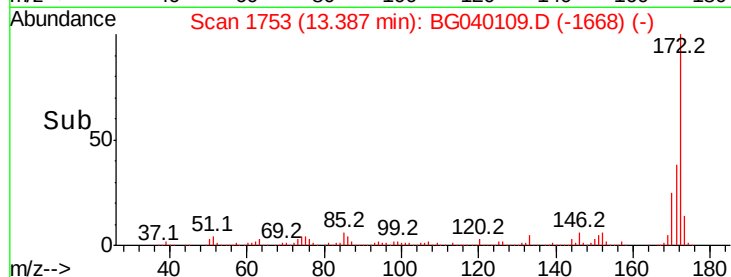
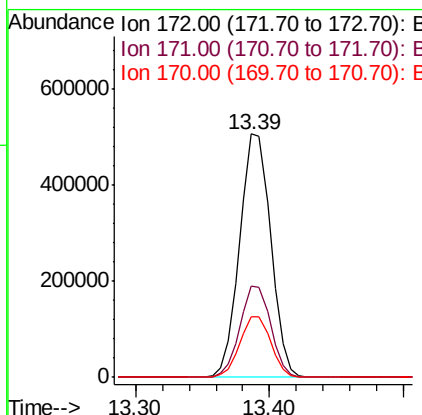
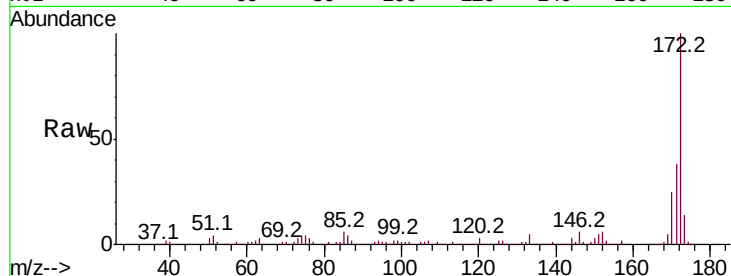




#45  
2-Fluorobiphenyl  
Concen: 82.108 ng  
RT: 13.39 min Scan# 1753  
Delta R.T. -0.03 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

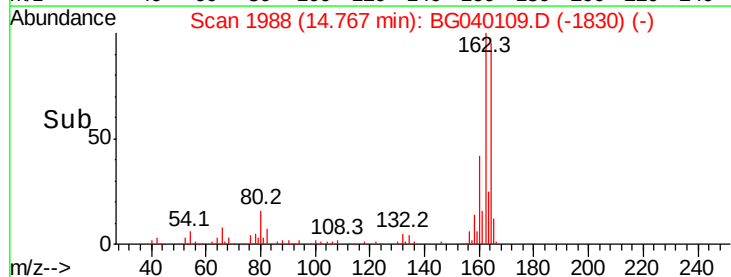
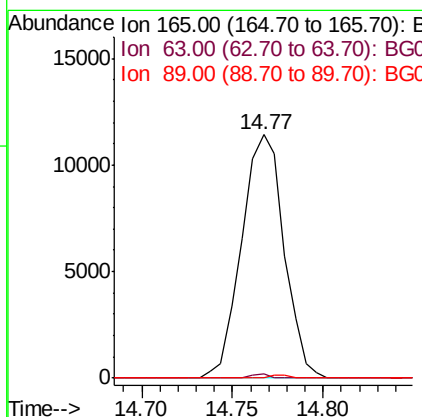
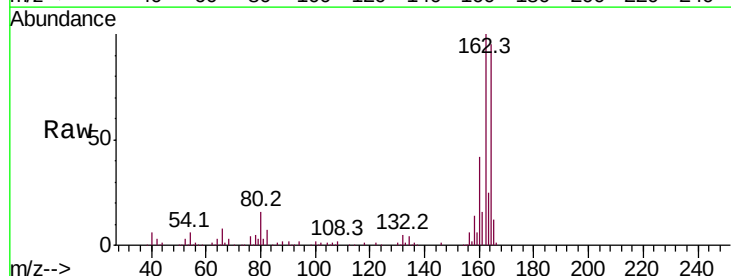
Instrument :  
BNA\_G  
ClientSampleId :

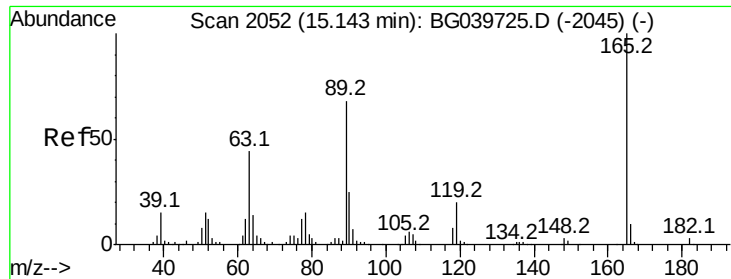
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 30.8  | 46.2  |
| 170     | 24.6  | 20.2  | 30.4  |



#51  
2,6-Dinitrotoluene  
Concen: 7.385 ng  
RT: 14.77 min Scan# 1988  
Delta R.T. 0.40 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 47.0  | 70.6# |
| 89      | 0.0   | 45.8  | 68.8# |

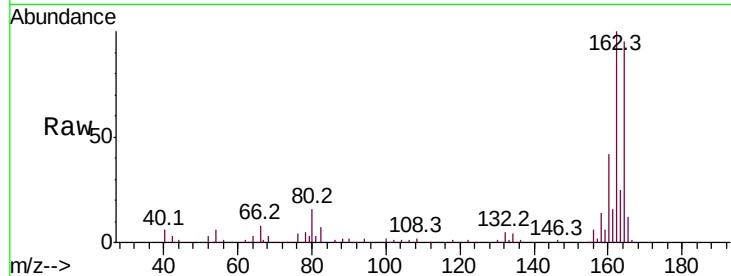




#57  
 2,4-Dinitrotoluene  
 Concen: 5.256 ng  
 RT: 14.77 min Scan# 1988  
 Delta R.T. -0.38 min  
 Lab File: BG040109.D  
 Acq: 23 Mar 2019 9:32

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 41.0  | 61.6# |
| 89      | 0.0   | 64.6  | 96.8# |
| 182     | 0.0   | 2.0   | 3.0#  |

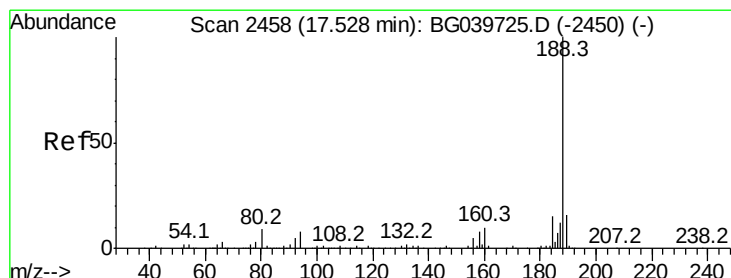
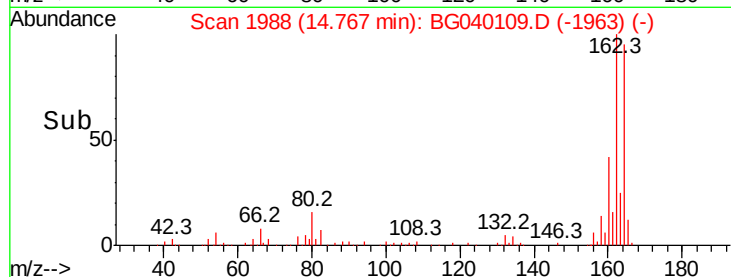
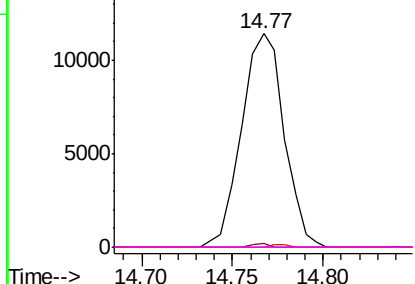


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

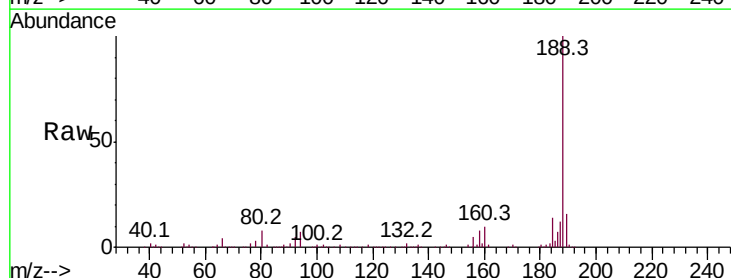
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.51 min Scan# 2455  
 Delta R.T. -0.02 min  
 Lab File: BG040109.D  
 Acq: 23 Mar 2019 9:32

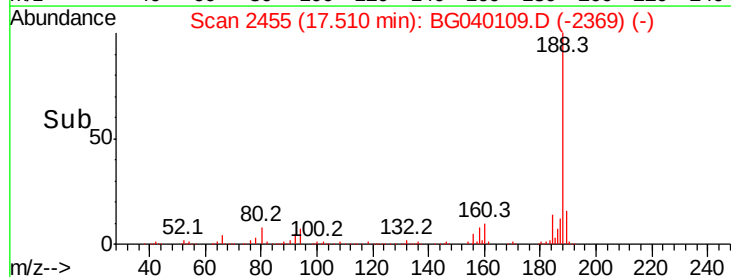
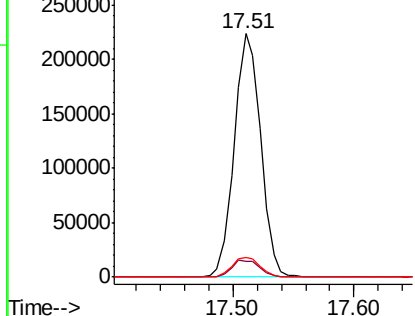
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.6   | 6.9   | 10.3# |
| 80      | 8.3   | 8.1   | 12.1  |



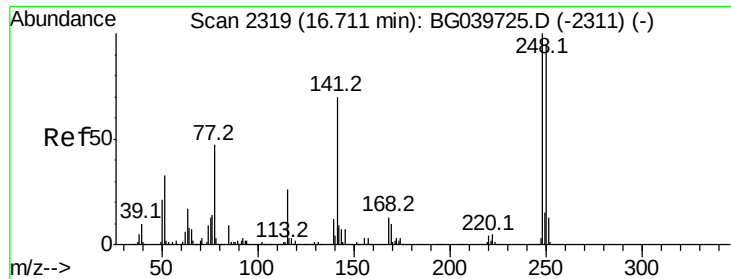
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



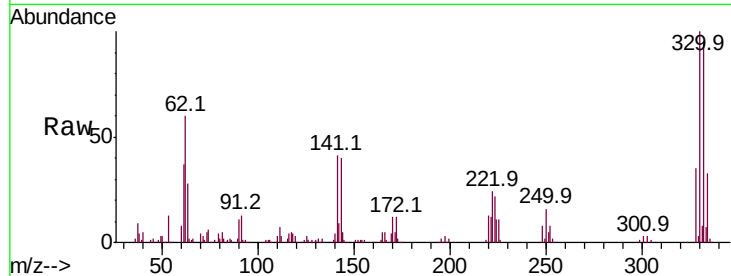




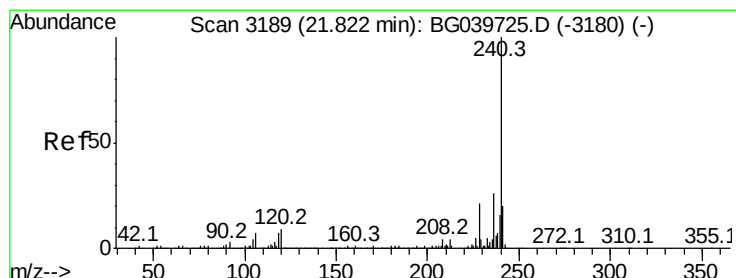
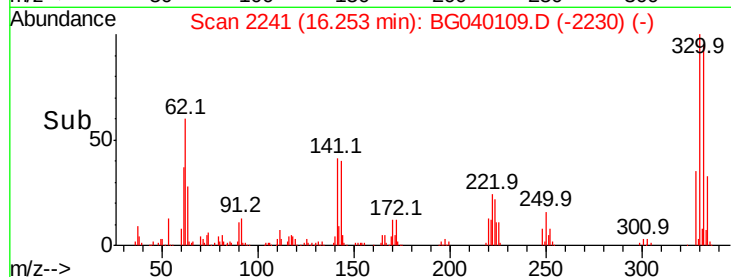
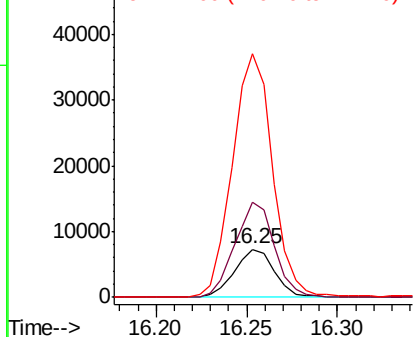
#67  
4-Bromophenyl-phenylether  
Concen: 2.942 ng  
RT: 16.25 min Scan# 2241  
Delta R.T. -0.46 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 11244  
Ion Ratio Lower Upper  
248 100  
250 197.9 77.6 116.4#  
141 508.0 63.9 95.9#

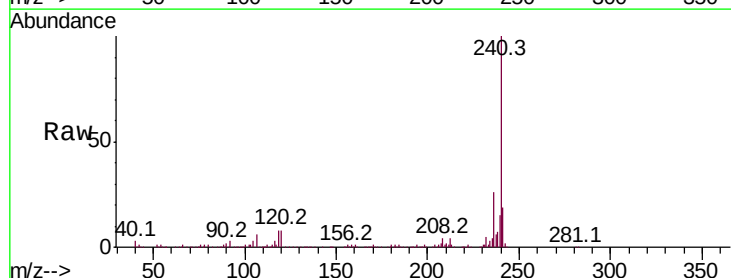


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

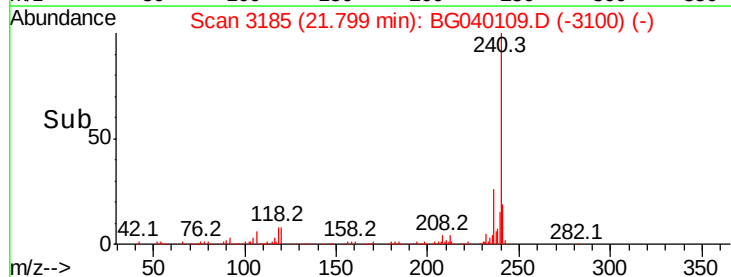
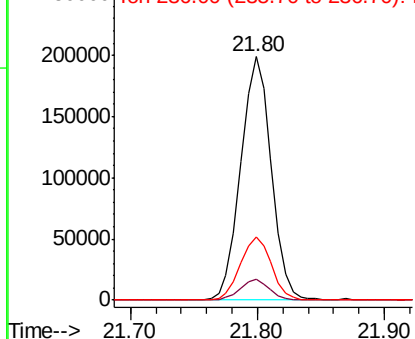


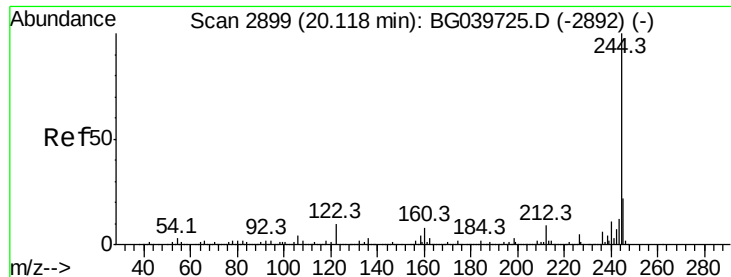
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.80 min Scan# 3185  
Delta R.T. -0.03 min  
Lab File: BG040109.D  
Acq: 23 Mar 2019 9:32

Tgt Ion:240 Resp: 331515  
Ion Ratio Lower Upper  
240 100  
120 8.4 7.0 10.6  
236 25.9 21.0 31.4



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: 73.795 ng

RT: 20.11 min Scan# 2897

Delta R.T. -0.02 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

Instrument :

BNA\_G

ClientSampleId :

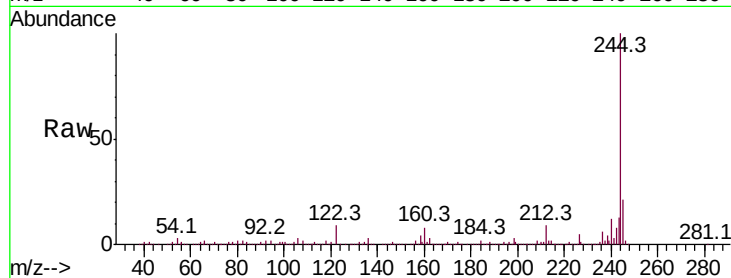
Tot Ion:244 Resp: 1111102

Ion Ratio Lower Upper

244 100

212 8.9 7.3 10.9

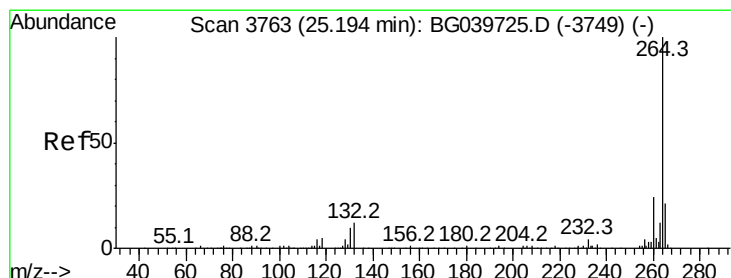
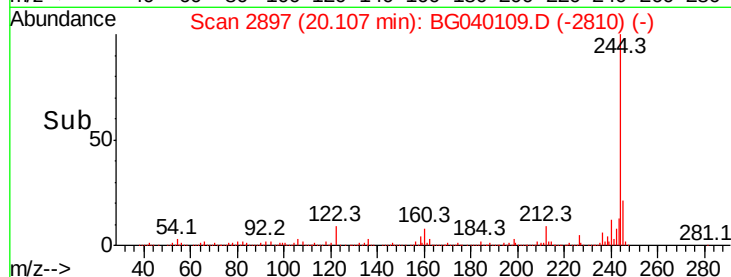
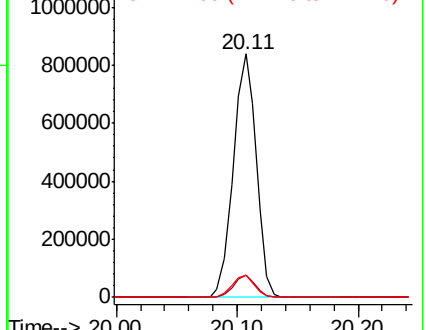
122 9.1 8.4 12.6



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: 25.16 min Scan# 3758

Delta R.T. -0.04 min

Lab File: BG040109.D

Acq: 23 Mar 2019 9:32

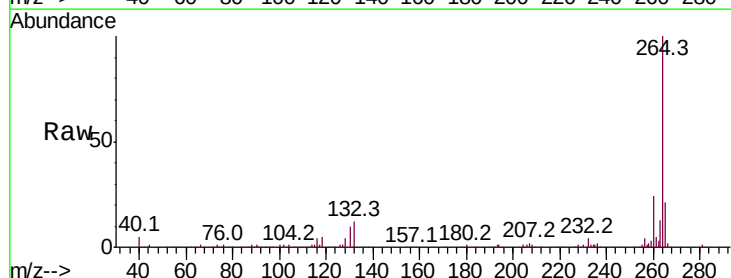
Tgt Ion:264 Resp: 334248

Ion Ratio Lower Upper

264 100

260 23.7 18.2 27.4

265 21.3 18.5 27.7



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

