

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021919\  
 Data File : BG039563.D  
 Acq On : 19 Feb 2019 20:23  
 Operator : JU/SJ  
 Sample : K1528-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-2

Quant Time: Feb 20 01:02:38 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 2019  
 Response via : Initial Calibration

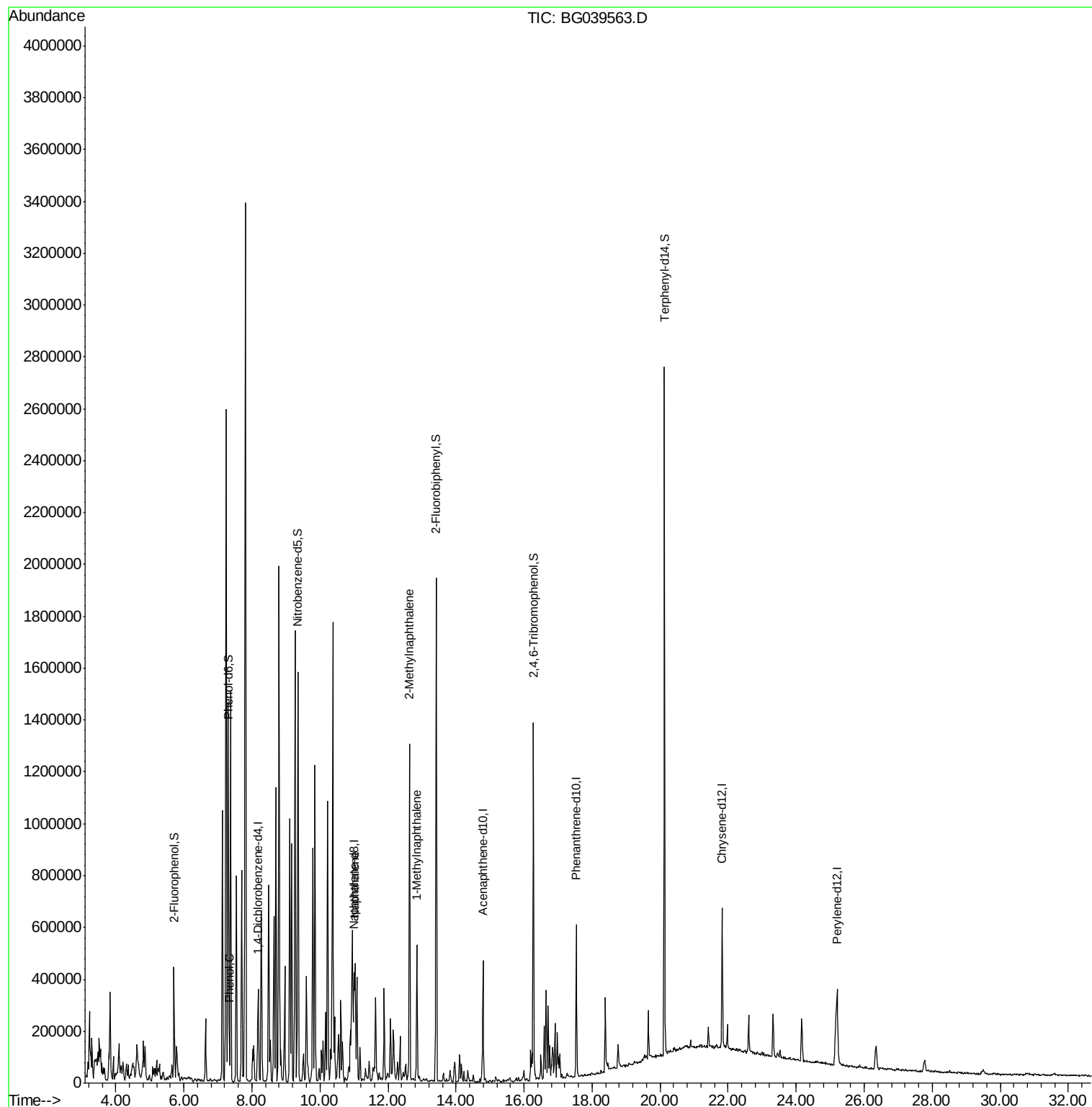
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 54730    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.99 | 136  | 231911   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.79 | 164  | 162855   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.53 | 188  | 360038   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12            | 21.82 | 240  | 359759   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12            | 25.20 | 264  | 344966   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.71  | 112  | 185019   | 57.86  | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 157870   | 33.54  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.35  | 82   | 400263   | 107.82 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.28 | 330  | 243588   | 138.90 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.42 | 172  | 980219   | 86.35  | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.12 | 244  | 1303405  | 76.69  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 7.34  | 94   | 11338    | 2.311  | ng    | 86       |
| 31) Naphthalene             | 11.04 | 128  | 112322   | 9.763  | ng    | # 82     |
| 37) 2-Methylnaphthalene     | 12.63 | 142  | 619244   | 72.671 | ng    | 97       |
| 38) 1-Methylnaphthalene     | 12.85 | 142  | 245391   | 29.875 | ng    | 99       |

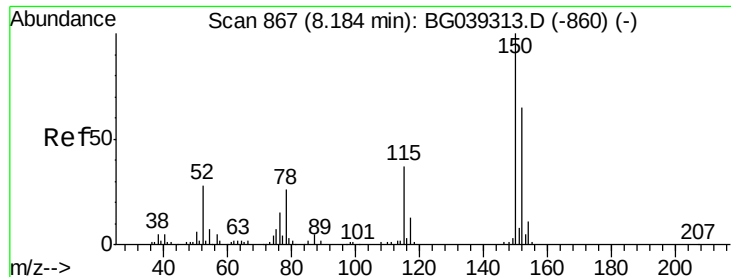
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Time: Feb 20 01:02:38 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 29 15:41:51 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.17 min Scan# 865

Delta R.T. -0.01 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-2

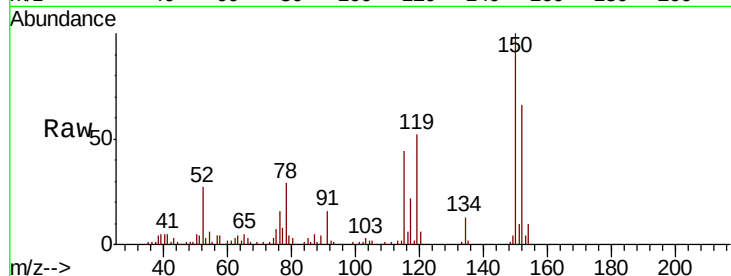
Tot Ion:152 Resp: 54730

Ion Ratio Lower Upper

152 100

150 152.1 123.7 185.5

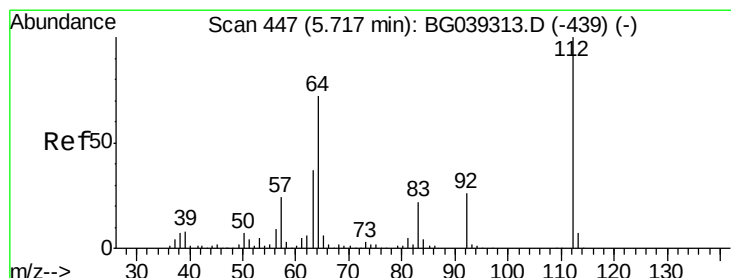
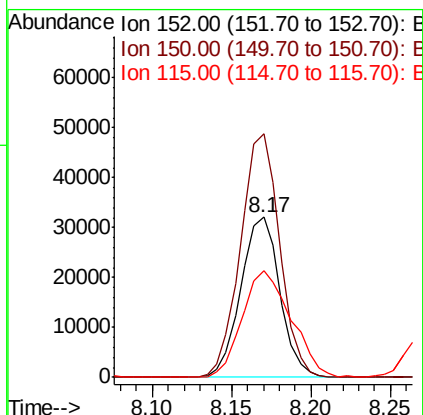
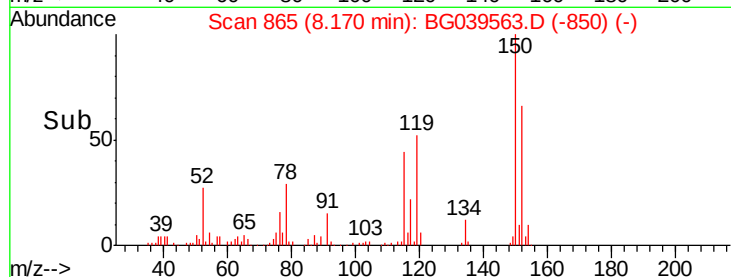
115 66.7 45.9 68.9



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: 57.859 ng

RT: 5.71 min Scan# 447

Delta R.T. -0.00 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

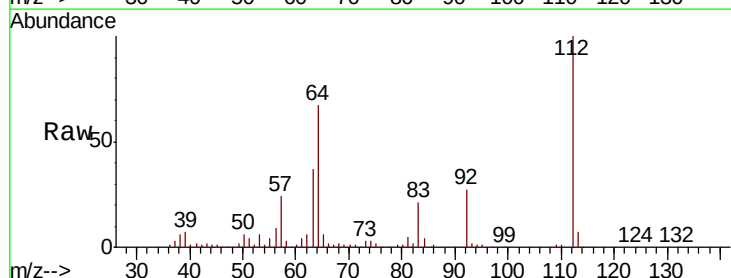
Tgt Ion:112 Resp: 185019

Ion Ratio Lower Upper

112 100

64 66.5 57.8 86.8

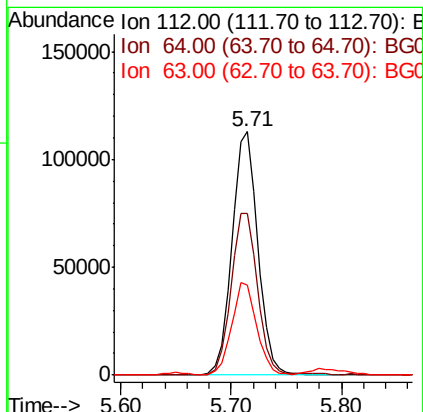
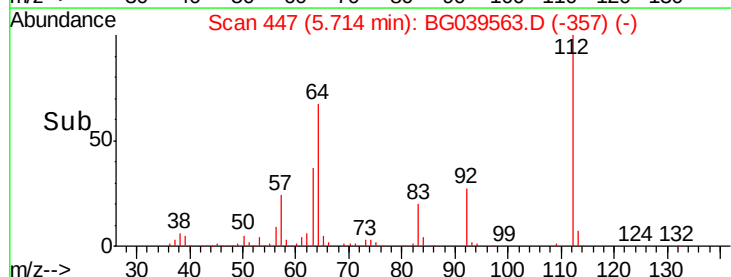
63 36.8 29.8 44.6

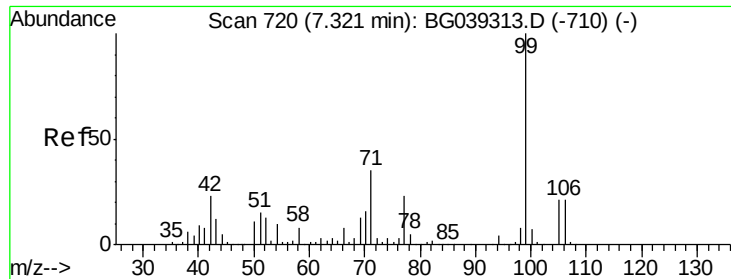


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 33.539 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.01 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-2

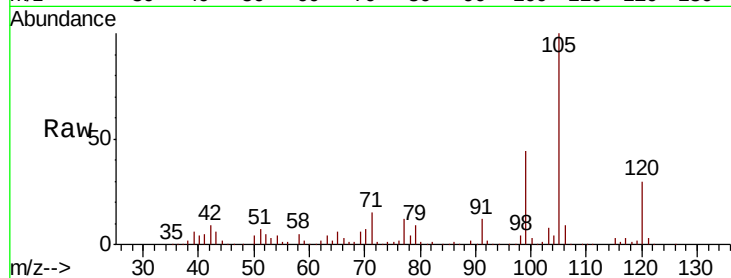
Tot Ion: 99 Resp: 157870

Ion Ratio Lower Upper

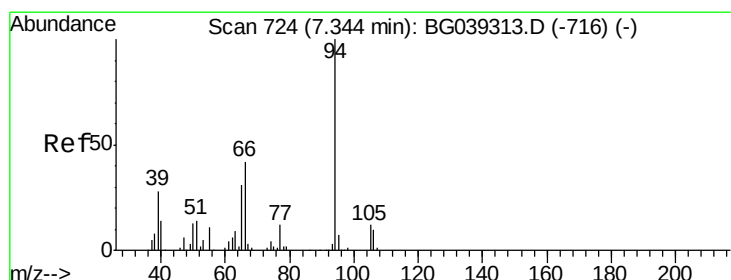
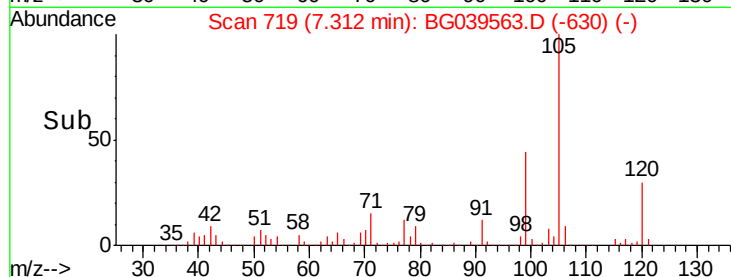
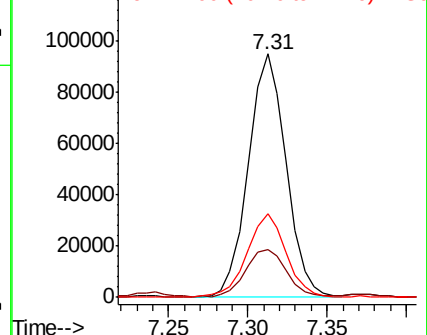
99 100

42 19.4 18.2 27.2

71 34.1 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



#10

Phenol

Concen: 2.311 ng

RT: 7.34 min Scan# 724

Delta R.T. -0.00 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

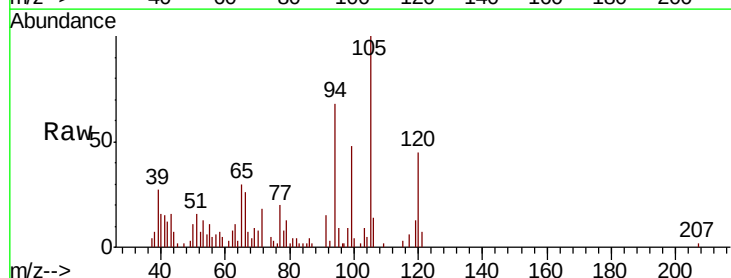
Tgt Ion: 94 Resp: 11338

Ion Ratio Lower Upper

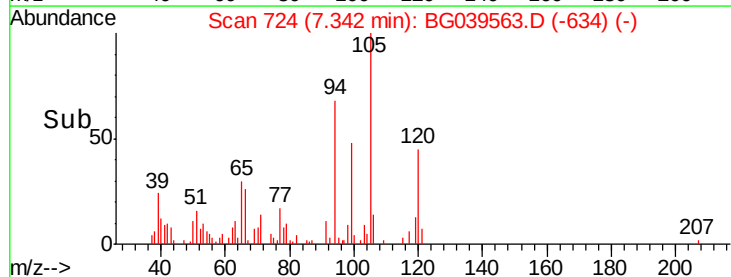
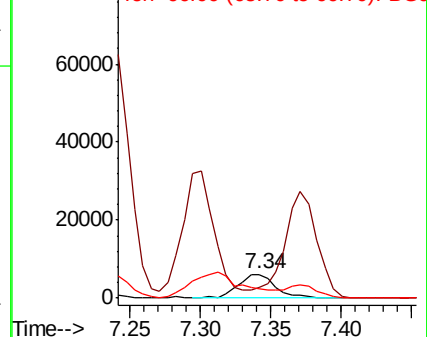
94 100

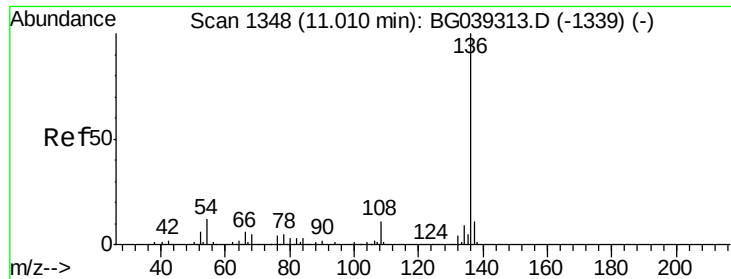
65 44.9 11.7 51.7

66 39.2 23.7 63.7



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

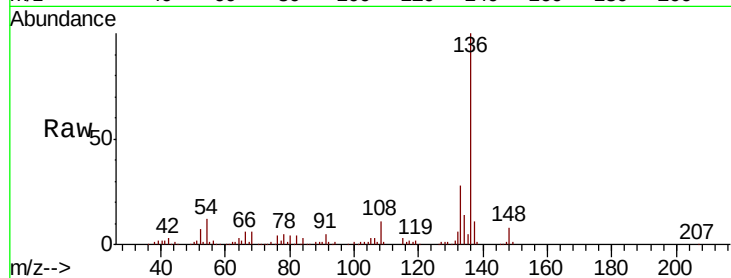




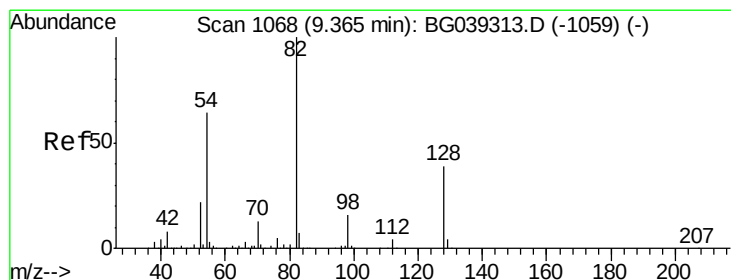
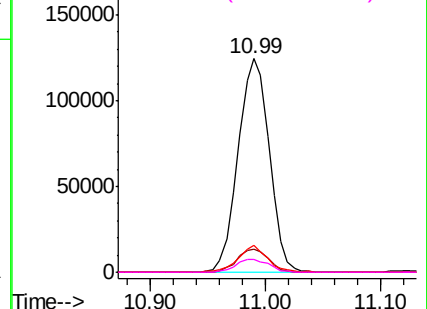
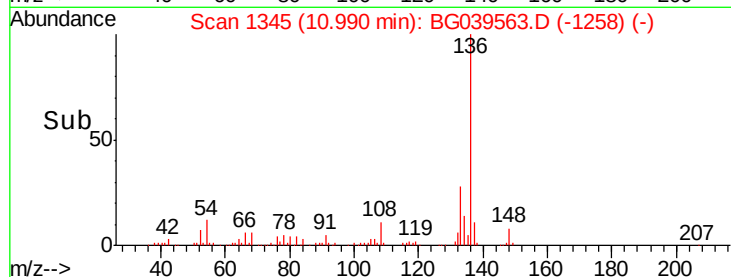
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.02 min  
Lab File: BG039563.D  
Acq: 19 Feb 2019 20:23

Instrument :  
BNA\_G  
ClientSampleId :  
MW-2

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 231911      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.8  | 9.1 13.7    |
| 54          | 12.4  | 9.4 14.2    |
| 68          | 5.8   | 4.2 6.4     |

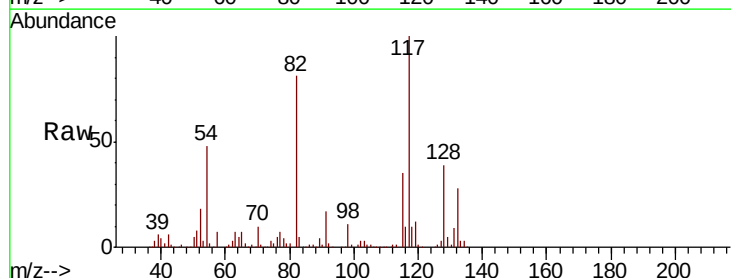


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

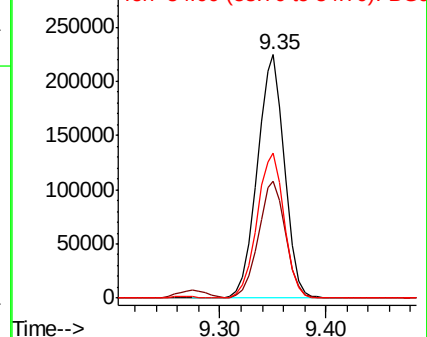
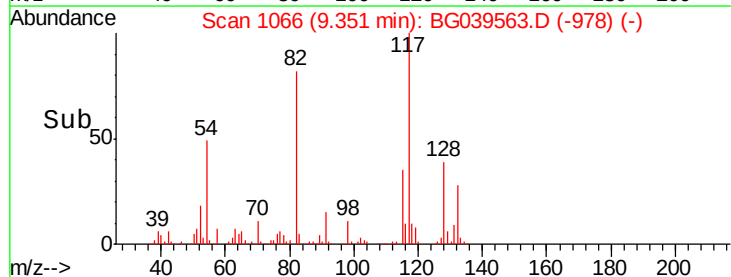


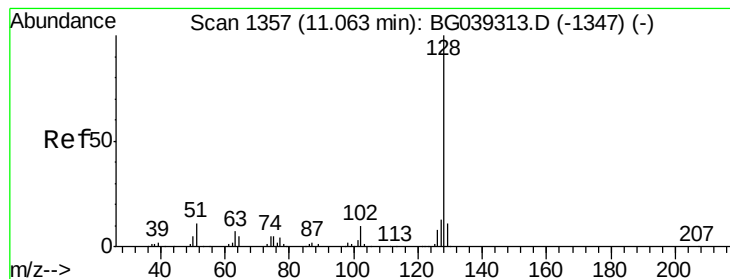
#23  
Nitrobenzene-d5  
Concen: 107.822 ng  
RT: 9.35 min Scan# 1066  
Delta R.T. -0.01 min  
Lab File: BG039563.D  
Acq: 19 Feb 2019 20:23

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 400263      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.9  | 31.3 46.9#  |
| 54          | 59.6  | 50.9 76.3   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC





#31

Naphthalene

Concen: 9.763 ng

RT: 11.04 min Scan# 1353

Delta R.T. -0.03 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-2

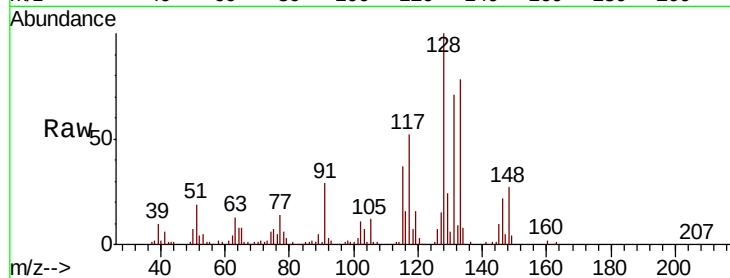
Tot Ion:128 Resp: 112322

Ion Ratio Lower Upper

128 100

129 23.6 8.7 13.1#

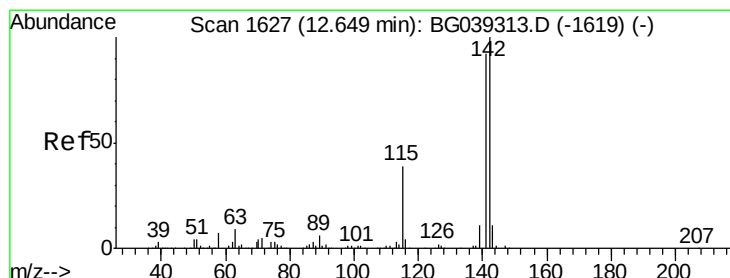
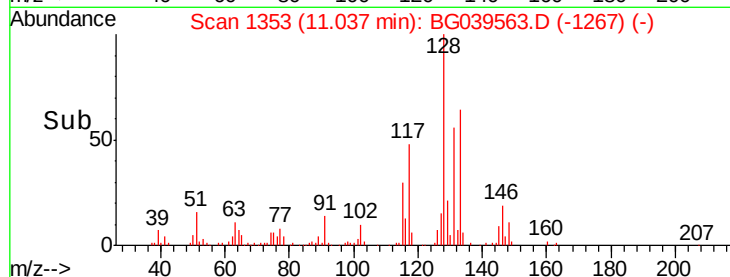
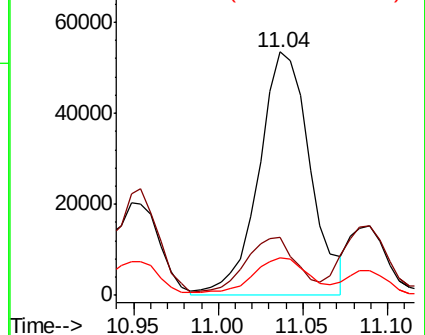
127 15.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 72.671 ng

RT: 12.63 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

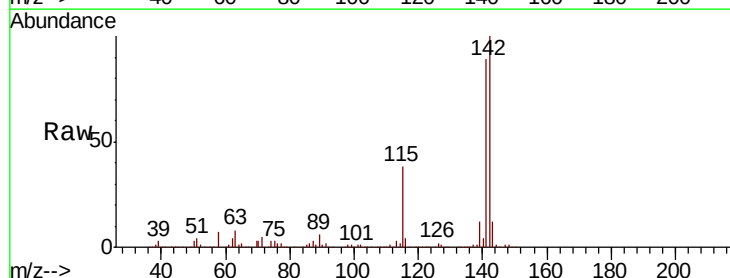
Tgt Ion:142 Resp: 619244

Ion Ratio Lower Upper

142 100

141 89.0 73.5 110.3

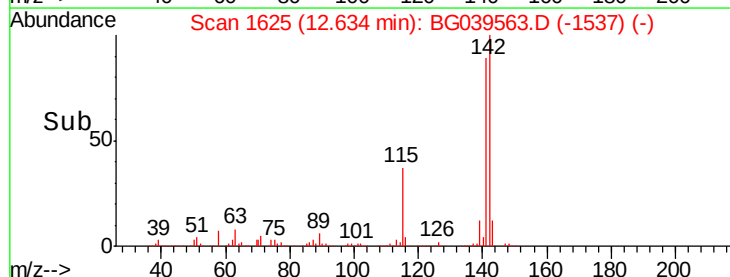
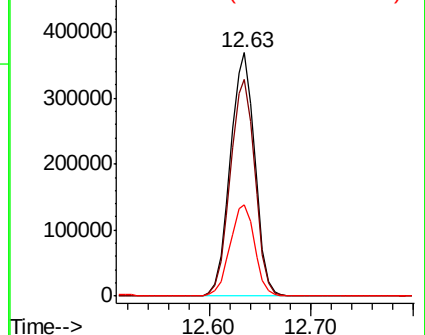
115 37.6 30.8 46.2

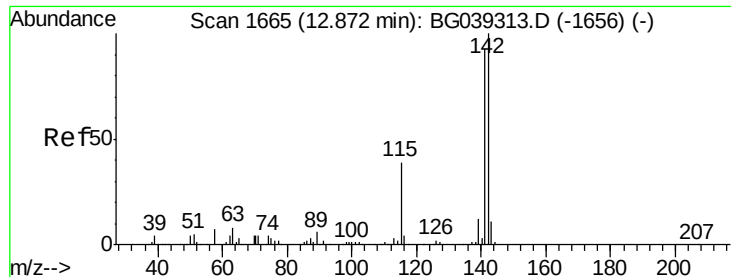


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

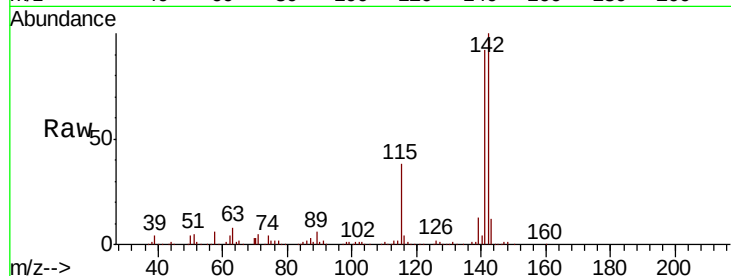




#38  
1-Methylnaphthalene  
Concen: 29.875 ng  
RT: 12.85 min Scan# 1661  
Delta R.T. -0.03 min  
Lab File: BG039563.D  
Acq: 19 Feb 2019 20:23

Instrument :  
BNA\_G  
ClientSampleId :  
MW-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.7  | 74.2  | 111.4 |
| 116     | 4.3   | 3.0   | 4.6   |

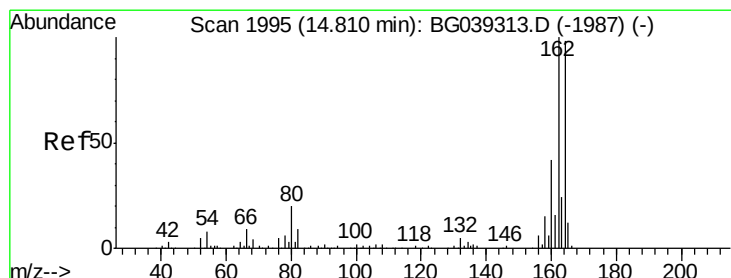
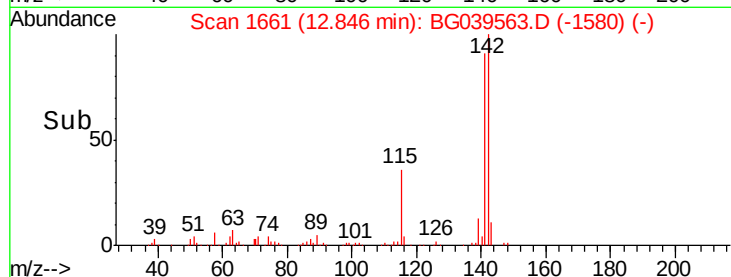
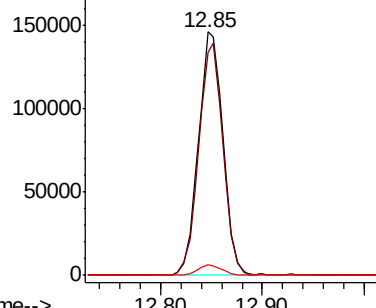


Abundance

Ion 142.00 (141.70 to 142.70): E

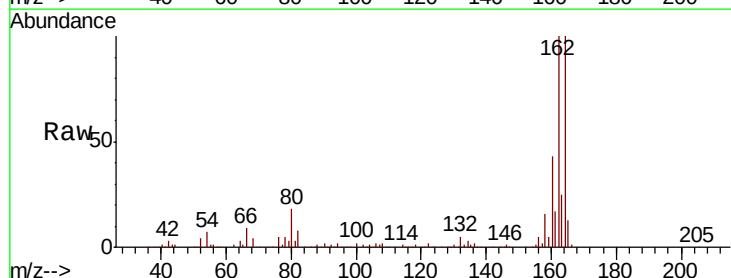
Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.79 min Scan# 1992  
Delta R.T. -0.02 min  
Lab File: BG039563.D  
Acq: 19 Feb 2019 20:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.8  | 81.6  | 122.4 |
| 160     | 43.0  | 34.2  | 51.2  |

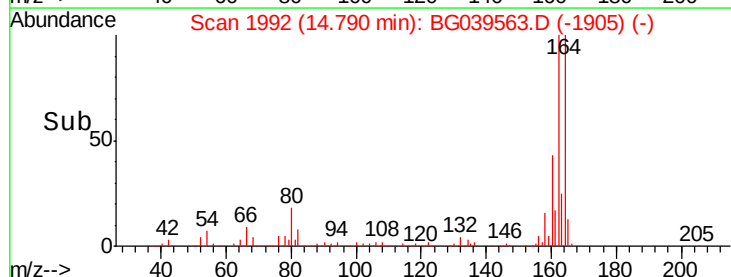
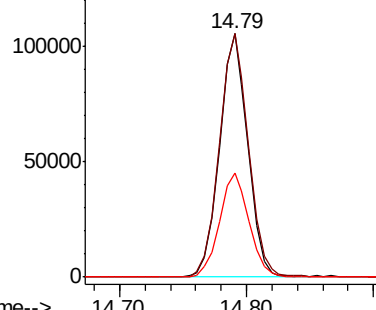


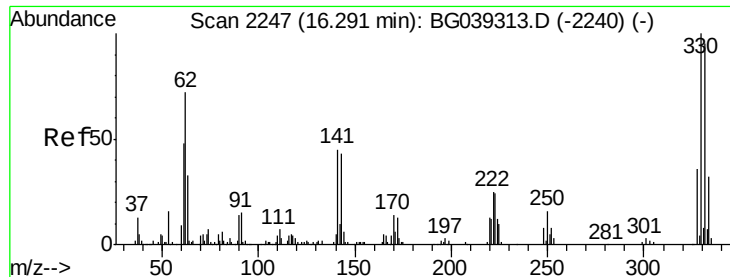
Abundance

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: 138.902 ng

RT: 16.28 min Scan# 2245

Delta R.T. -0.01 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-2

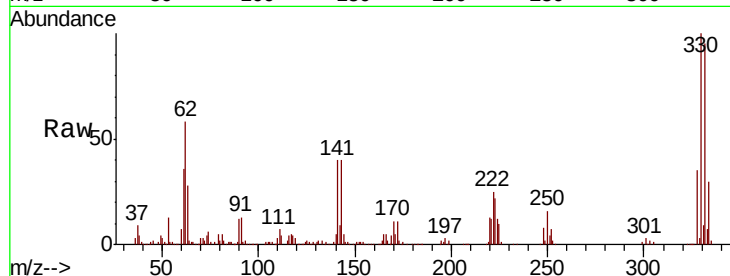
Tot Ion:330 Resp: 243588

Ion Ratio Lower Upper

330 100

332 96.8 75.7 113.5

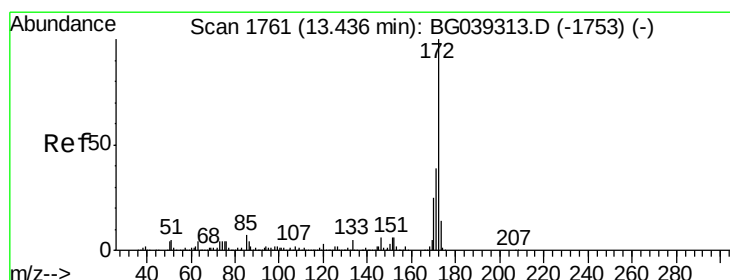
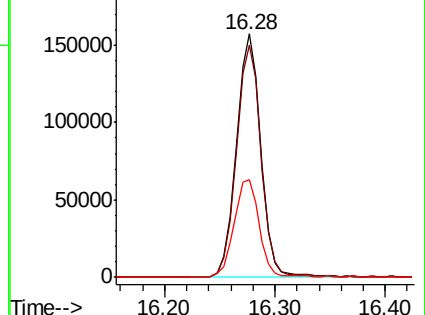
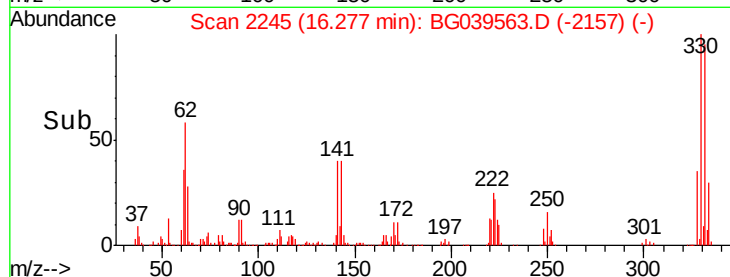
141 41.6 35.6 53.4



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: 86.345 ng

RT: 13.42 min Scan# 1758

Delta R.T. -0.02 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

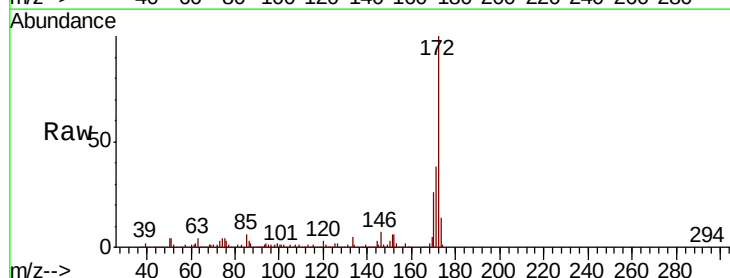
Tgt Ion:172 Resp: 980219

Ion Ratio Lower Upper

172 100

171 38.2 30.8 46.2

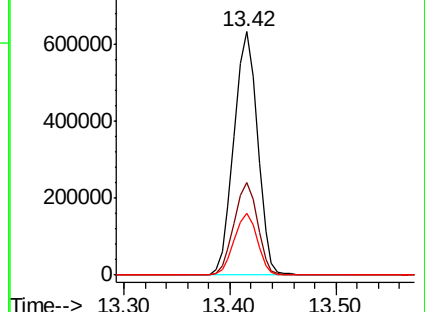
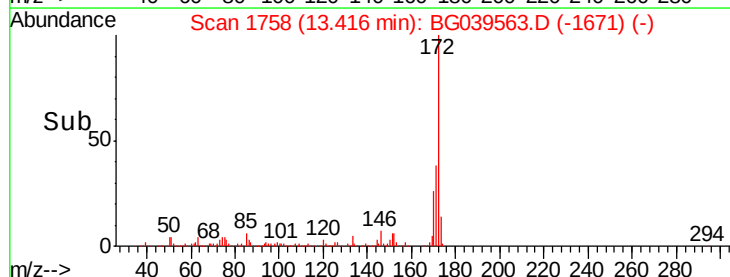
170 25.5 20.2 30.4



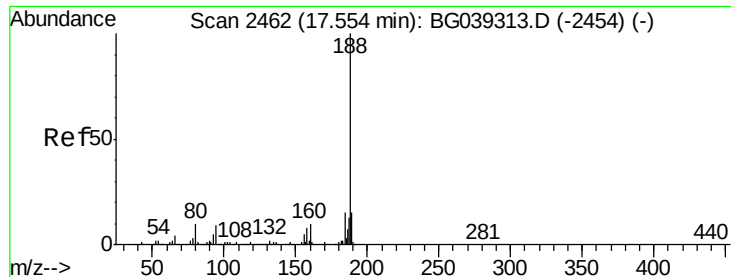
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.53 min Scan# 2459

Delta R.T. -0.02 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-2

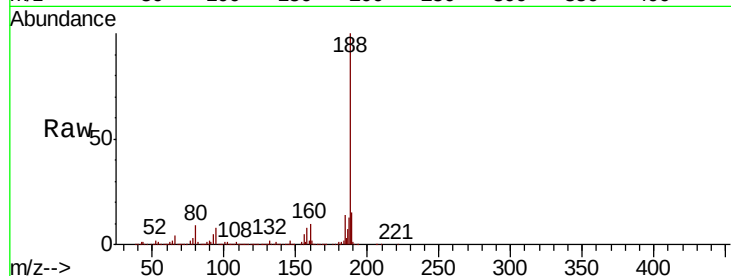
Tot Ion:188 Resp: 360038

Ion Ratio Lower Upper

188 100

94 7.8 6.9 10.3

80 9.3 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

300000

250000

200000

150000

100000

50000

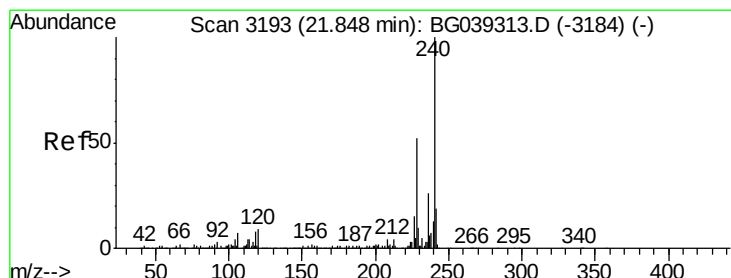
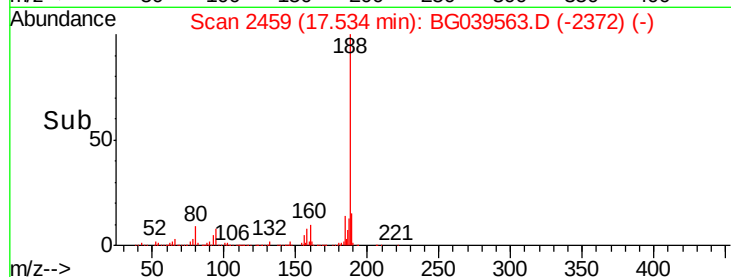
0

17.53

17.50

17.60

Time-->



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.82 min Scan# 3189

Delta R.T. -0.03 min

Lab File: BG039563.D

Acq: 19 Feb 2019 20:23

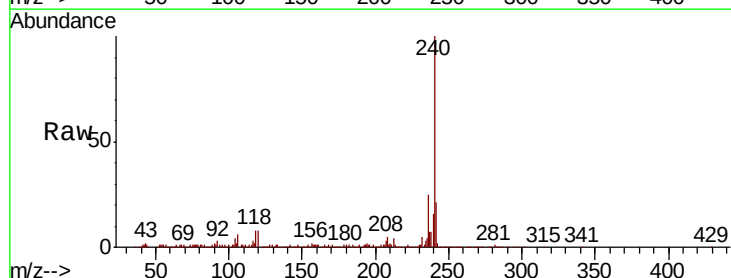
Tgt Ion:240 Resp: 359759

Ion Ratio Lower Upper

240 100

120 8.4 7.0 10.6

236 25.4 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

250000

200000

150000

100000

50000

0

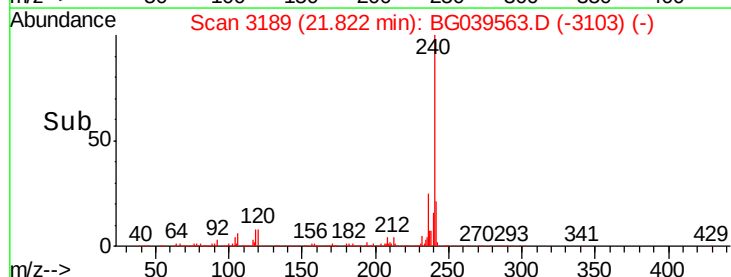
21.82

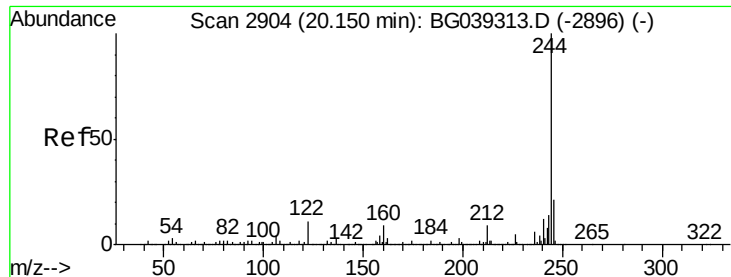
21.70

21.90

22.00

Time-->



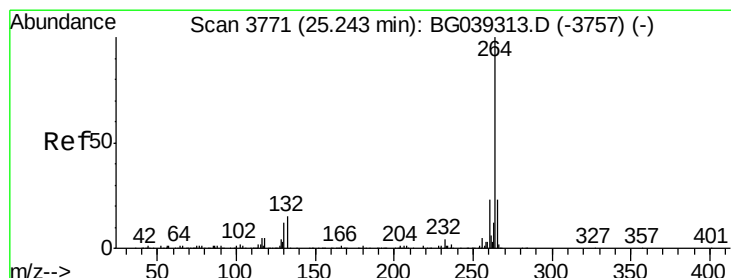
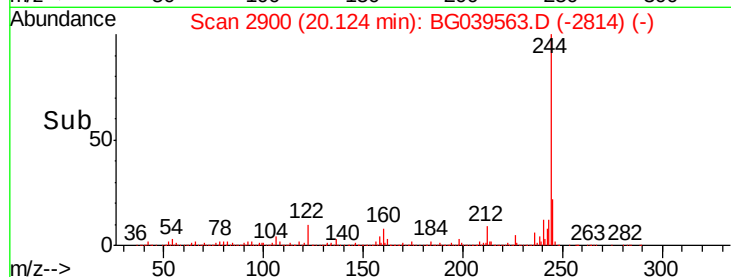
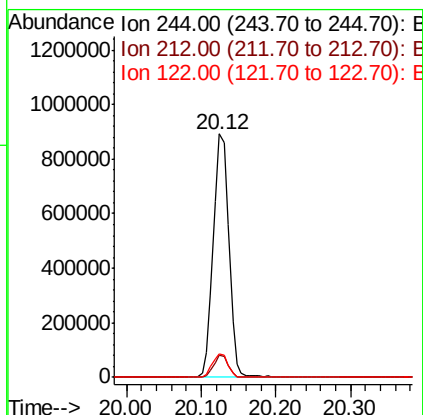
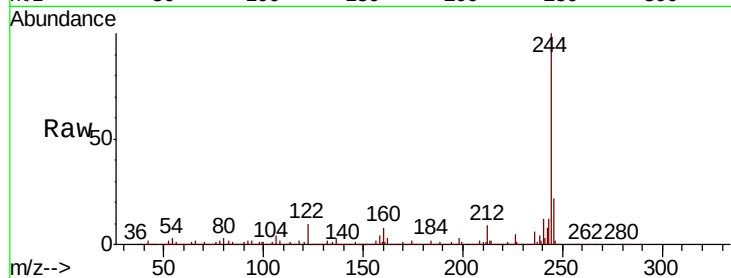


#79  
 Terphenyl-d14  
 Concen: 76.688 ng  
 RT: 20.12 min Scan# 2900  
 Delta R.T. -0.03 min  
 Lab File: BG039563.D  
 Acq: 19 Feb 2019 20:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-2

Tot Ion:244 Resp: 1303405  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 7.3   | 10.9  |
| 122 | 9.8   | 8.4   | 12.6  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.20 min Scan# 3764  
 Delta R.T. -0.04 min  
 Lab File: BG039563.D  
 Acq: 19 Feb 2019 20:23

Tgt Ion:264 Resp: 344966  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 18.2  | 27.4  |
| 265 | 21.7  | 18.5  | 27.7  |

