

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG021119\  
 Data File : BG039436.D  
 Acq On : 11 Feb 2019 16:14  
 Operator : JU/SJ  
 Sample : PB116987BL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB116987BL

Quant Time: Feb 12 00:15:12 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  | 53073    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.99 | 136  | 236495   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.79 | 164  | 167669   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.54 | 188  | 422614   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.82 | 240  | 439214   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.21 | 264  | 441540   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.71  | 112  | 455794   | 146.99 | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 648868   | 142.16 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.35  | 82   | 368584   | 97.36  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.28 | 330  | 261992   | 145.11 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.42 | 172  | 972345   | 83.19  | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.13 | 244  | 1656522  | 79.83  | ng    | -0.02    |

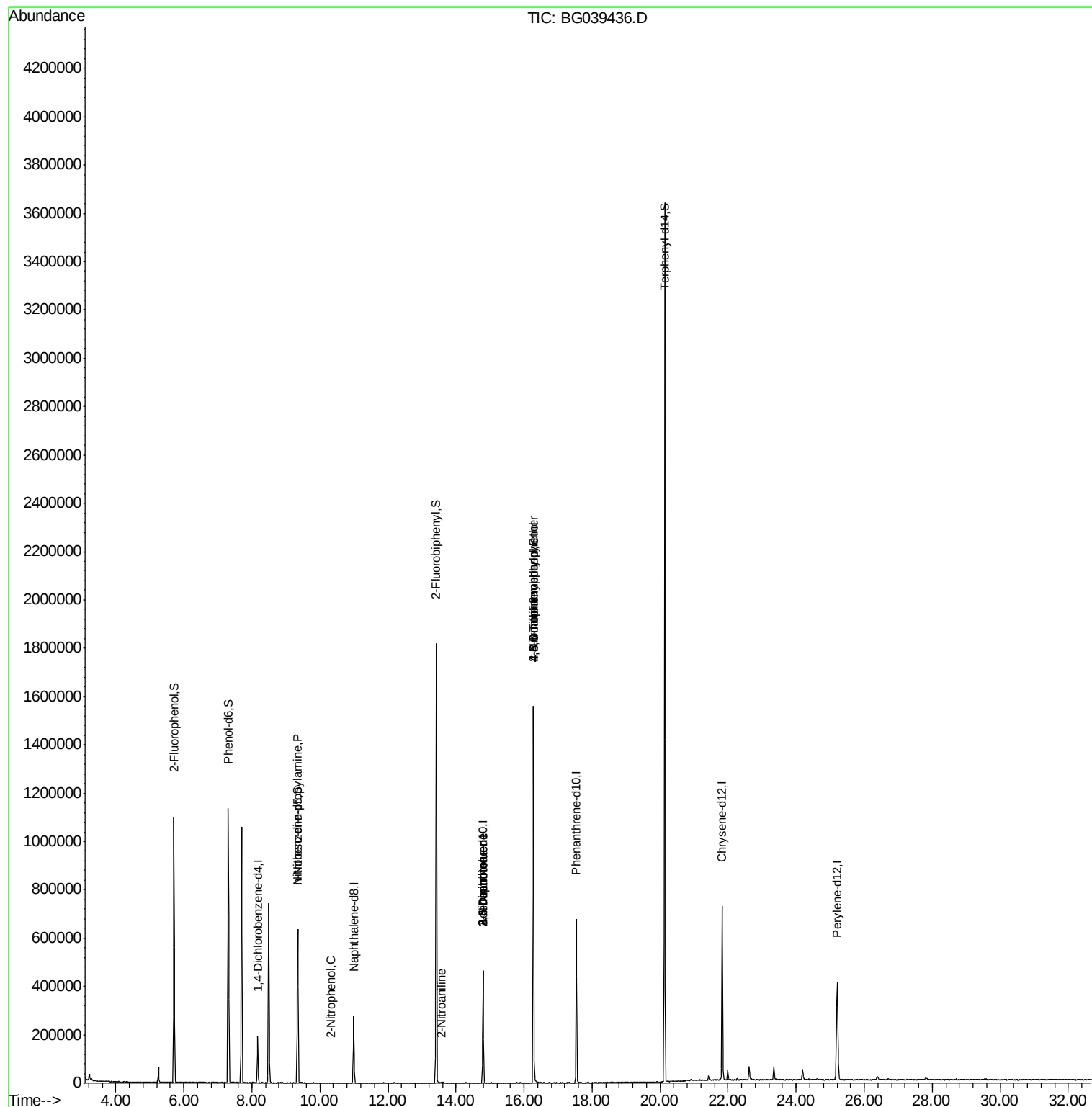
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.31  | 77   | 969      | Below Cal |       | # 4    |
| 19) n-Nitroso-di-n-propylamine | 9.35  | 70   | 48989    | 15.121    | ng    | # 67   |
| 26) 2-Nitrophenol              | 10.32 | 139  | 76       | 4.061     | ng    | # 31   |
| 48) 2-Nitroaniline             | 13.56 | 65   | 60       | 8.313     | ng    | # 10   |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 21336    | 13.837    | ng    | # 24   |
| 53) 3-Nitroaniline             | 14.80 | 138  | 54       | 5.810     | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 21336    | 13.334    | ng    | # 19   |
| 62) 4-Nitroaniline             | 16.28 | 138  | 96       | 4.233     | ng    | # 1    |
| 65) 4,6-Dinitro-2-methylphenol | 16.27 | 198  | 850      | 4.820     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 20812    | 4.439     | ng    | # 1    |

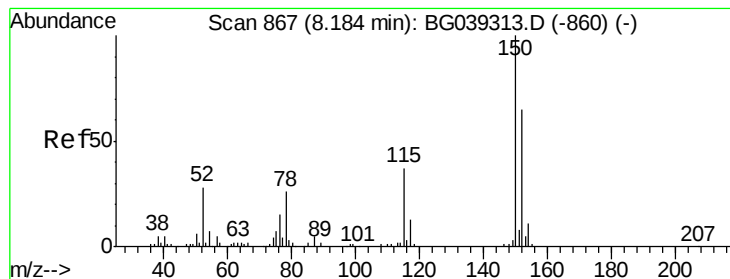
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 12 00:15:12 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  
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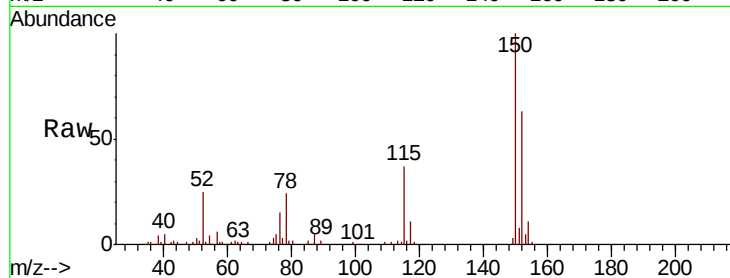


#1

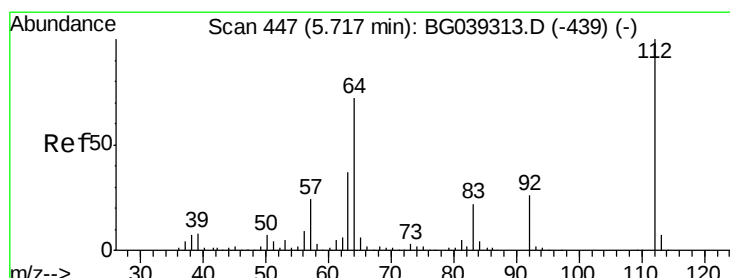
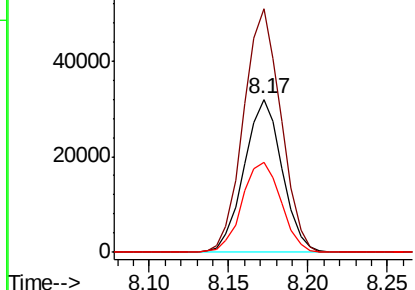
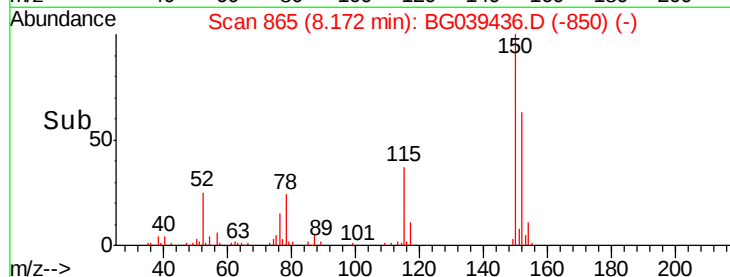
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 865  
Delta R.T. -0.01 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

Instrument :  
BNA\_G  
ClientSampleId :  
PB116987BL

Tgt Ion:152 Resp: 53073  
Ion Ratio Lower Upper  
152 100  
150 159.3 123.7 185.5  
115 58.7 45.9 68.9



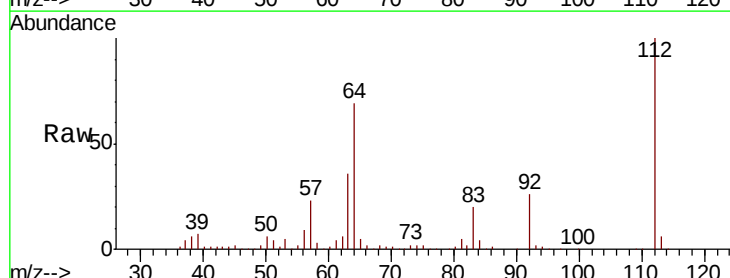
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



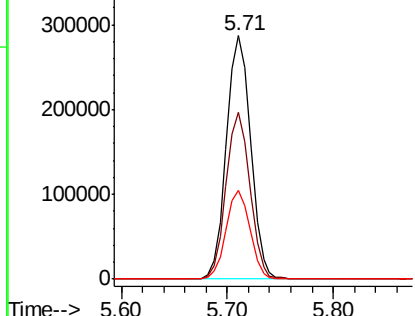
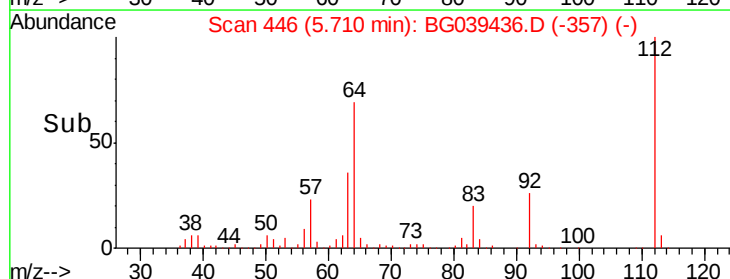
#5

2-Fluorophenol  
Concen: 146.985 ng  
RT: 5.71 min Scan# 446  
Delta R.T. -0.01 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

Tgt Ion:112 Resp: 455794  
Ion Ratio Lower Upper  
112 100  
64 68.6 57.8 86.8  
63 36.3 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: 142.155 ng

RT: 7.31 min Scan# 718

Delta R.T. -0.01 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Instrument :

BNA\_G

ClientSampleId :

PB116987BL

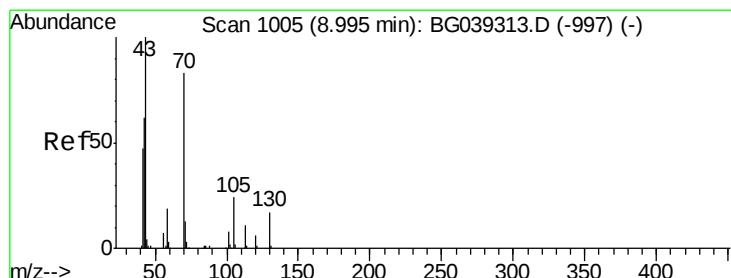
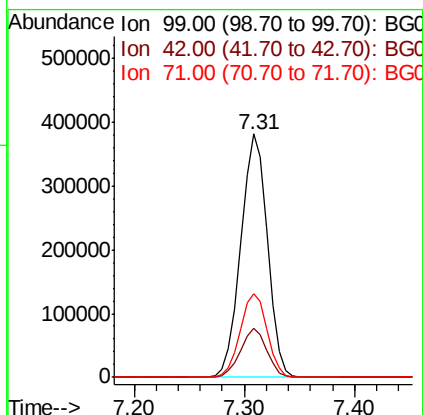
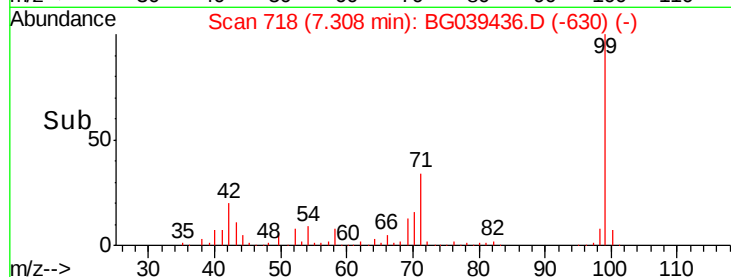
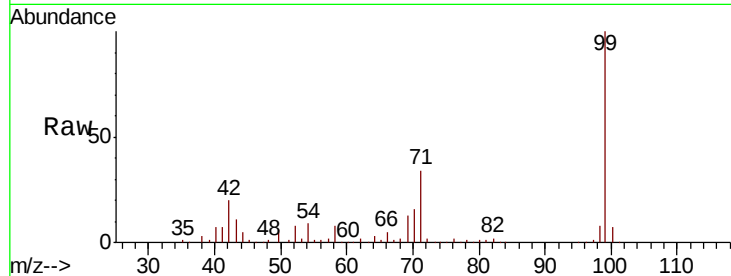
Tgt Ion: 99 Resp: 648868

Ion Ratio Lower Upper

99 100

42 20.2 18.2 27.2

71 34.1 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.121 ng

RT: 9.35 min Scan# 1065

Delta R.T. 0.35 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Tgt Ion: 70 Resp: 48989

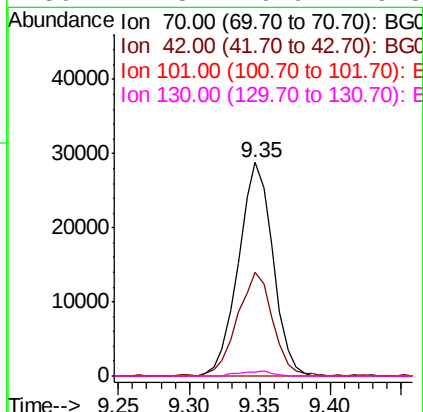
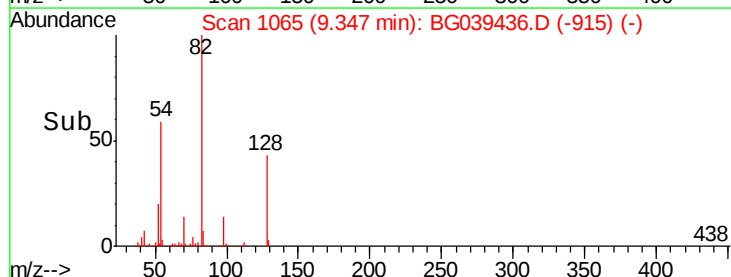
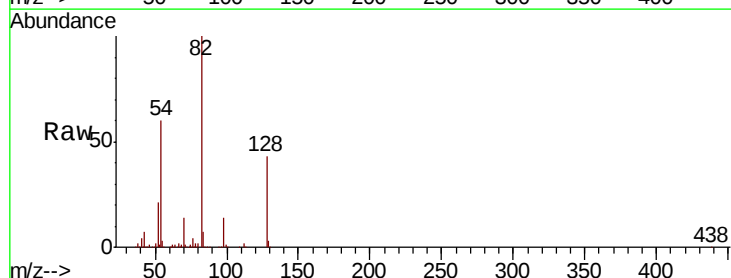
Ion Ratio Lower Upper

70 100

42 48.5 60.4 90.6#

101 0.0 7.5 11.3#

130 1.8 16.9 25.3#

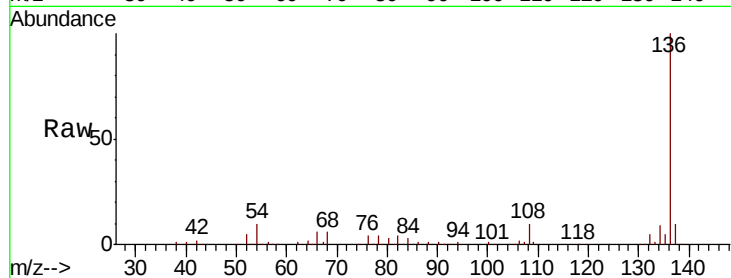




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.02 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

Instrument :  
BNA\_G  
ClientSampleId :  
PB116987BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 236495 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.9   | 9.1   | 13.7   |
| 54       | 10.2  | 9.4   | 14.2   |
| 68       | 6.1   | 4.2   | 6.4    |



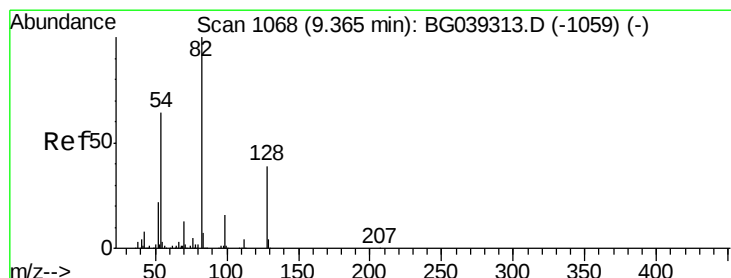
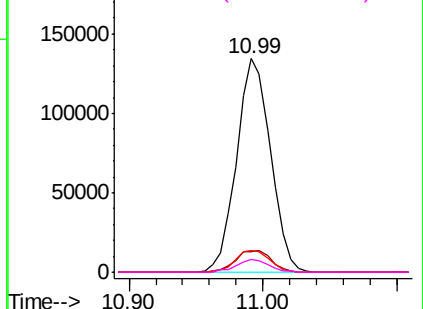
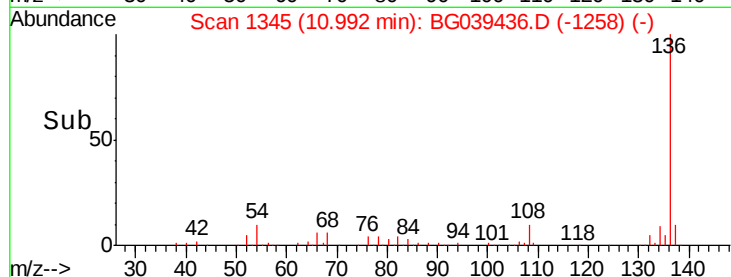
Abundance

Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

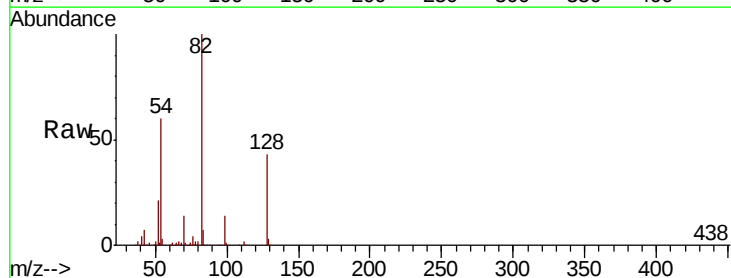
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 97.364 ng  
RT: 9.35 min Scan# 1065  
Delta R.T. -0.02 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 368584 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.2  | 31.3  | 46.9   |
| 54       | 59.6  | 50.9  | 76.3   |

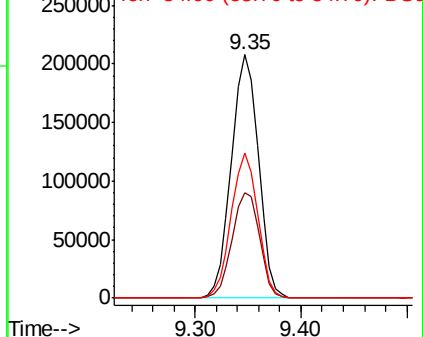
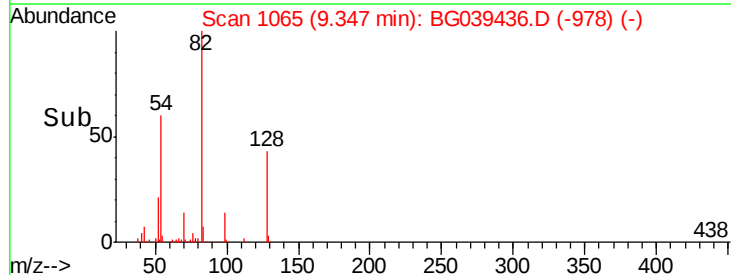


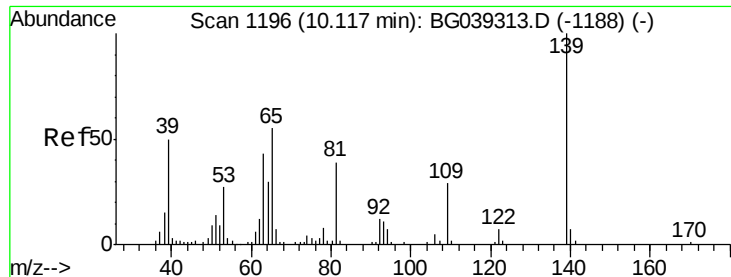
Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

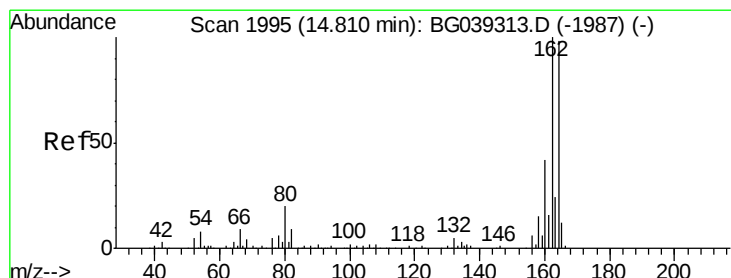
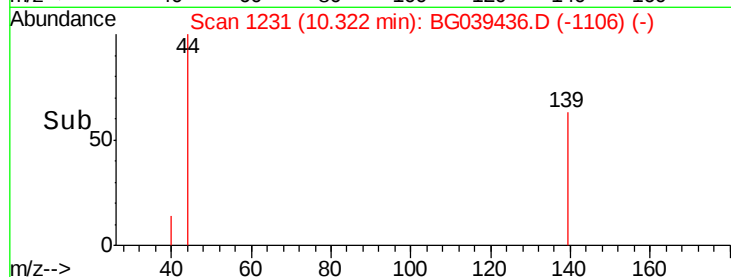
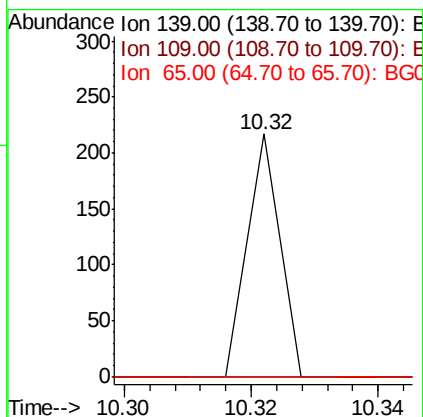
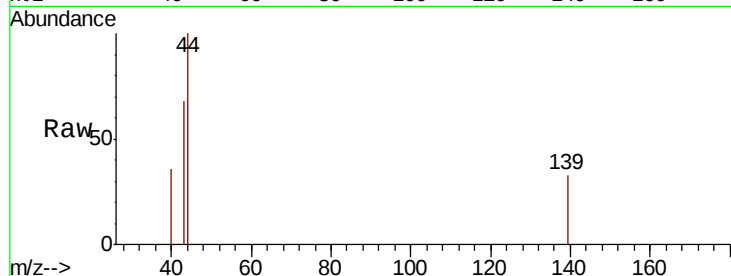




#26  
2-Nitrophenol  
Concen: 4.061 ng  
RT: 10.32 min Scan# 1231  
Delta R.T. 0.21 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

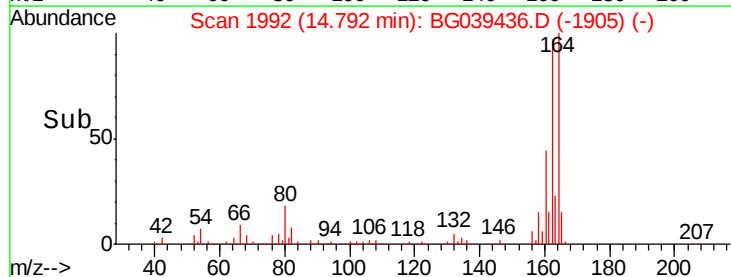
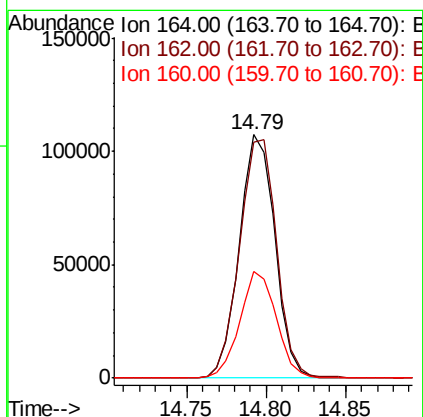
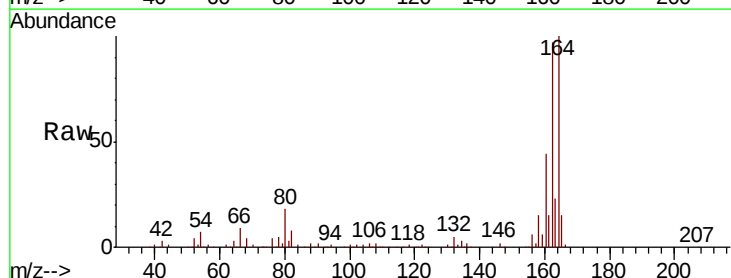
Instrument :  
BNA\_G  
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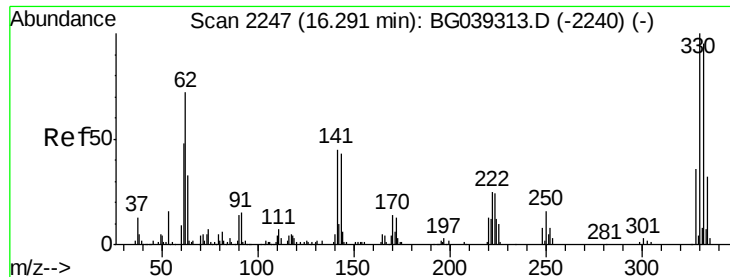
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 23.4  | 35.0# |
| 65      | 0.0   | 44.3  | 66.5# |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.79 min Scan# 1992  
Delta R.T. -0.02 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.8  | 81.6  | 122.4 |
| 160     | 43.6  | 34.2  | 51.2  |

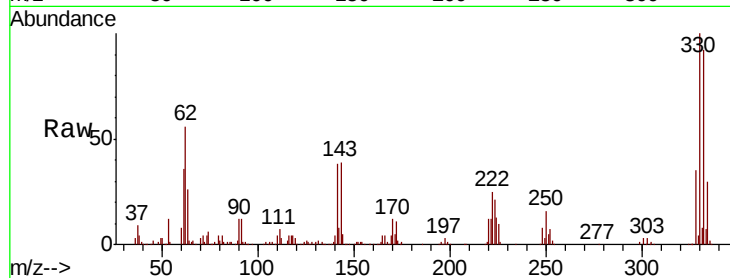




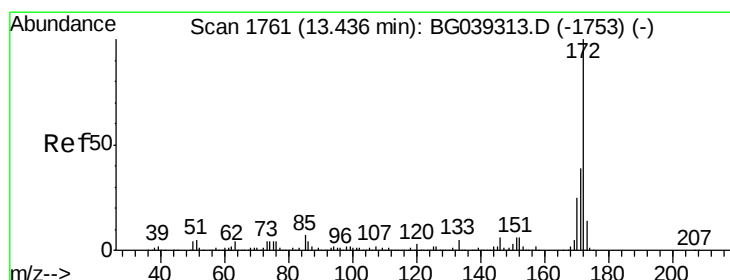
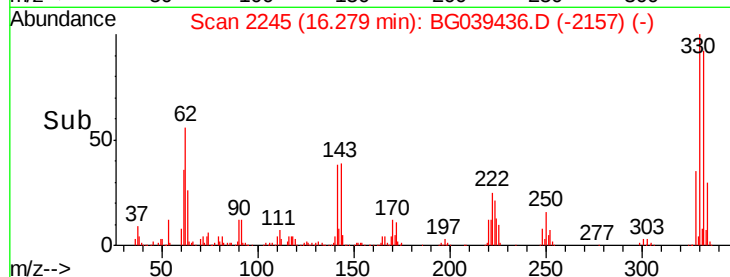
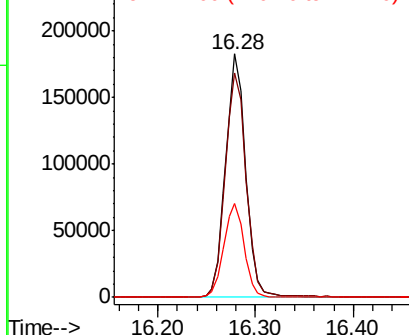
#42  
 2,4,6-Tribromophenol  
 Concen: 145.107 ng  
 RT: 16.28 min Scan# 2245  
 Delta R.T. -0.01 min  
 Lab File: BG039436.D  
 Acq: 11 Feb 2019 16:14

Instrument :  
 BNA\_G  
 ClientSampleID :  
 PB116987BL

Tgt Ion:330 Resp: 261992  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 75.7 113.5  
 141 39.0 35.6 53.4

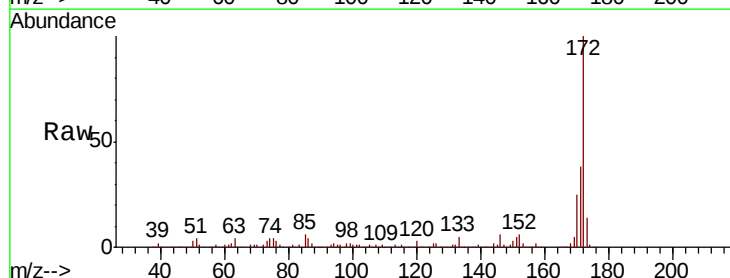


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

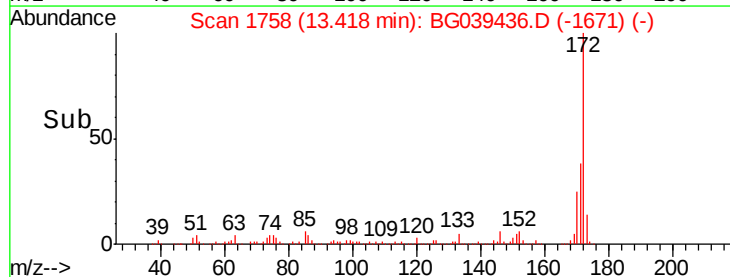
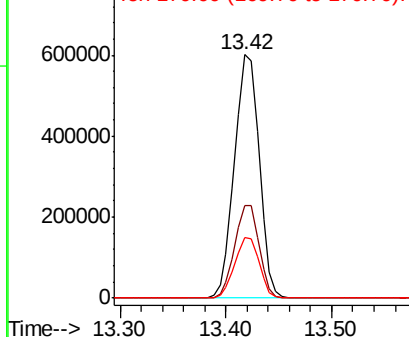


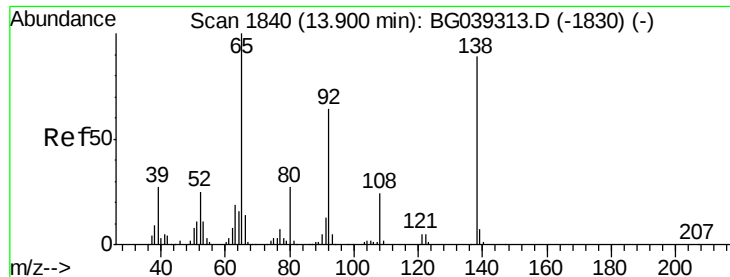
#45  
 2-Fluorobiphenyl  
 Concen: 83.192 ng  
 RT: 13.42 min Scan# 1758  
 Delta R.T. -0.02 min  
 Lab File: BG039436.D  
 Acq: 11 Feb 2019 16:14

Tgt Ion:172 Resp: 972345  
 Ion Ratio Lower Upper  
 172 100  
 171 38.1 30.8 46.2  
 170 24.9 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





#48

2-Nitroaniline

Concen: 8.313 ng

RT: 13.56 min Scan# 1783

Delta R.T. -0.33 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Instrument :

BNA\_G

ClientSampleId :

PB116987BL

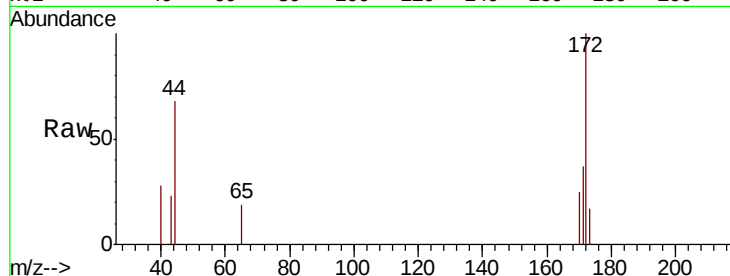
Tgt Ion: 65 Resp: 60

Ion Ratio Lower Upper

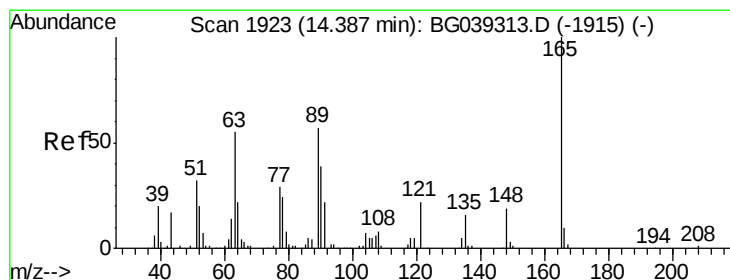
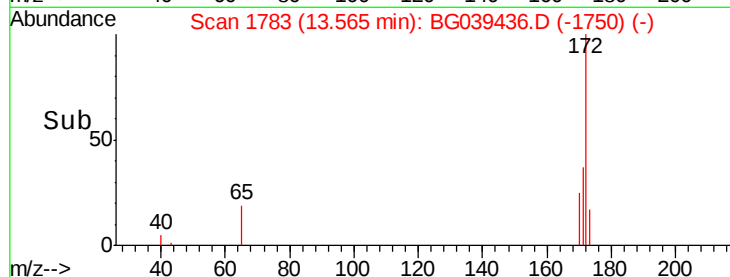
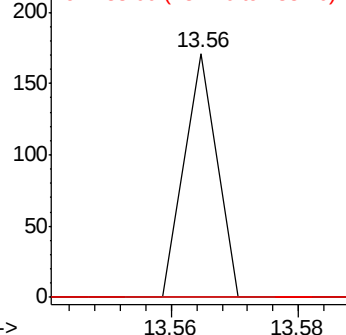
65 100

92 0.0 51.4 77.2#

138 0.0 71.4 107.2#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#51

2,6-Dinitrotoluene

Concen: 13.837 ng

RT: 14.79 min Scan# 1992

Delta R.T. 0.41 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

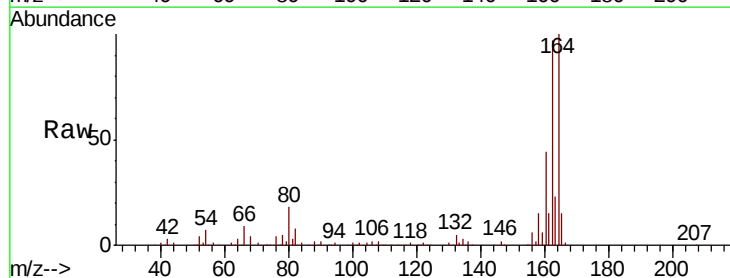
Tgt Ion: 165 Resp: 21336

Ion Ratio Lower Upper

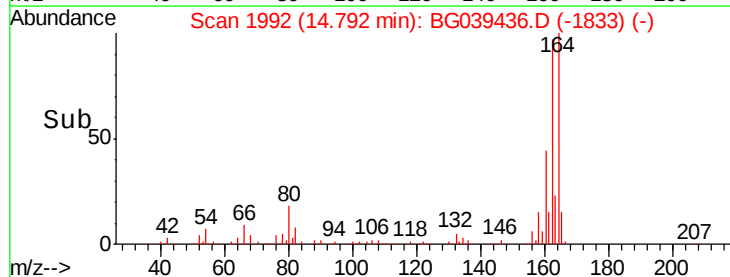
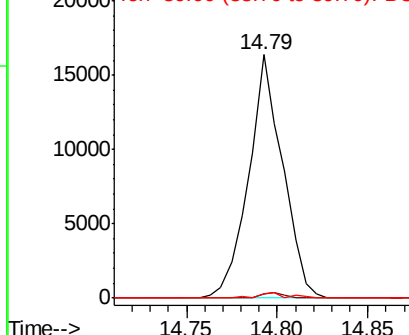
165 100

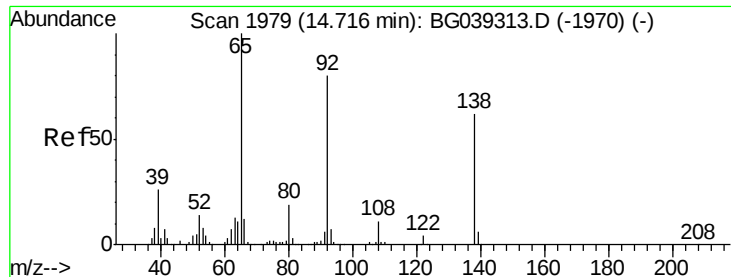
63 1.5 47.0 70.6#

89 2.0 45.8 68.8#



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





#53

3-Nitroaniline

Concen: 5.810 ng

RT: 14.80 min Scan# 1993

Delta R.T. 0.08 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Instrument :

BNA\_G

ClientSampleId :

PB116987BL

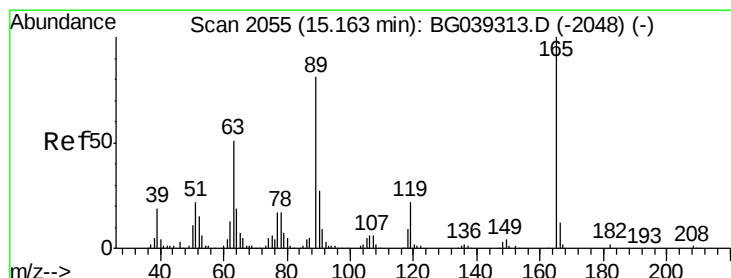
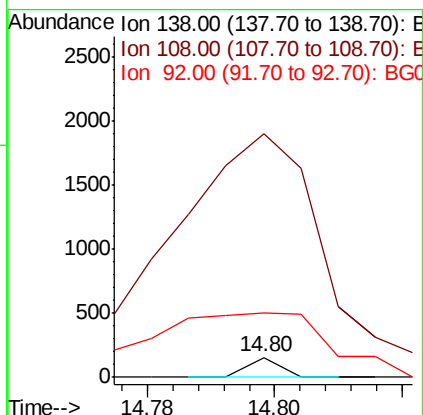
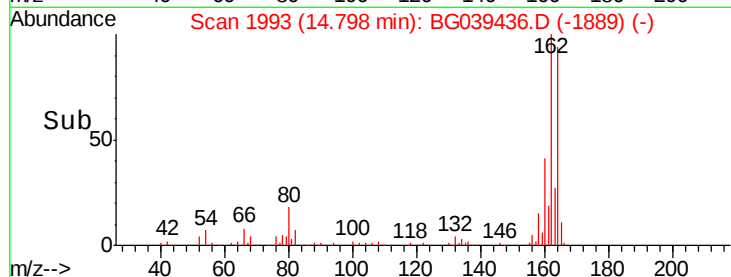
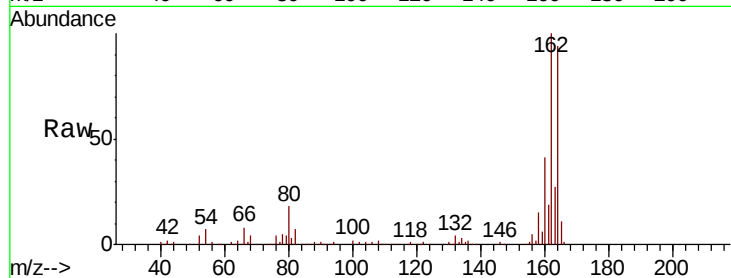
Tgt Ion:138 Resp: 54

Ion Ratio Lower Upper

138 100

108 1239.9 13.8 20.8#

92 325.5 103.7 155.5#



#57

2,4-Dinitrotoluene

Concen: 13.334 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.37 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Tgt Ion:165 Resp: 21336

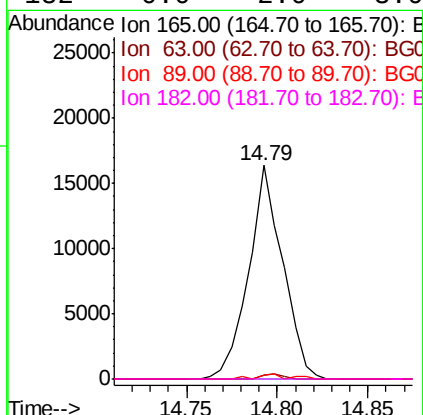
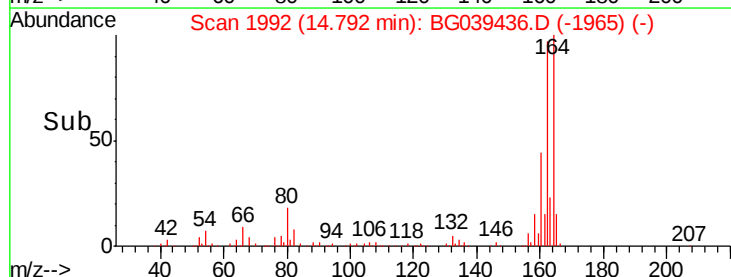
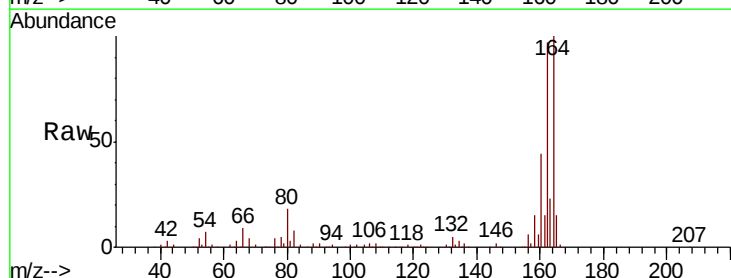
Ion Ratio Lower Upper

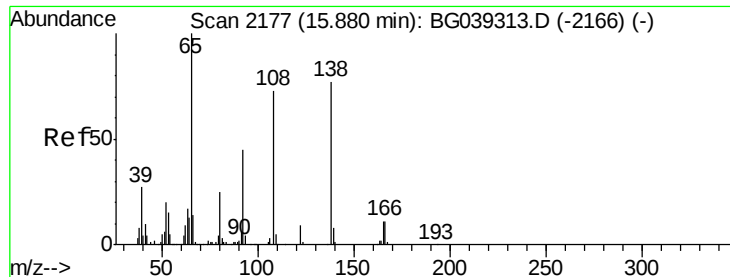
165 100

63 1.5 41.0 61.6#

89 2.0 64.6 96.8#

182 0.0 2.0 3.0#





#62

4-Nitroaniline

Concen: 4.233 ng

RT: 16.28 min Scan# 2245

Delta R.T. 0.40 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

Instrument :

BNA\_G

ClientSampleId :

PB116987BL

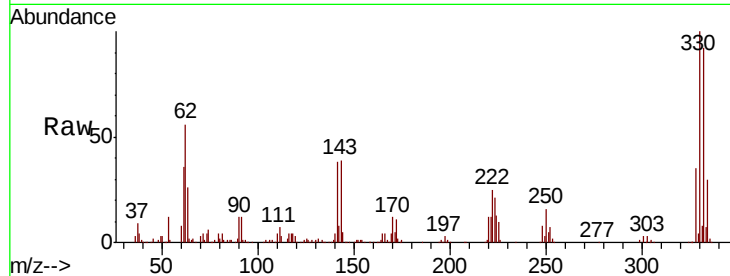
Tgt Ion:138 Resp: 96

Ion Ratio Lower Upper

138 100

92 827.5 38.7 78.7#

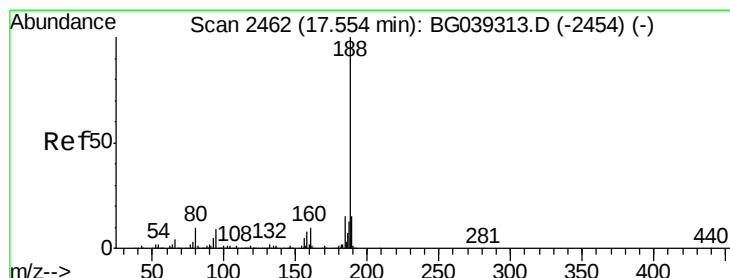
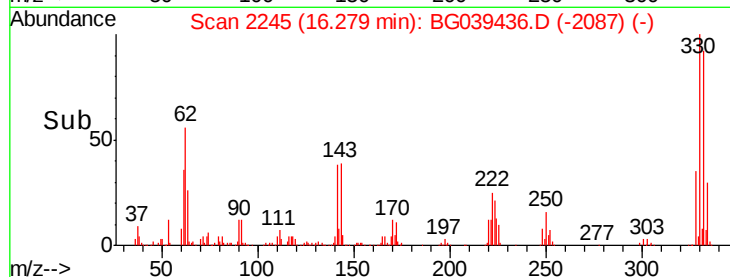
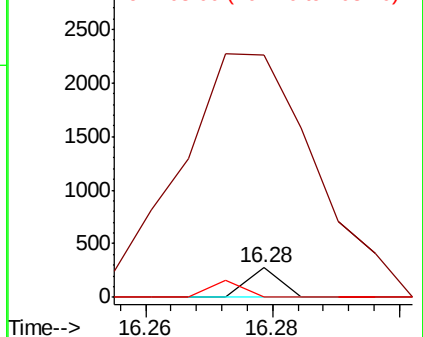
108 0.0 74.6 114.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG0

Ion 108.00 (107.70 to 108.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.54 min Scan# 2459

Delta R.T. -0.02 min

Lab File: BG039436.D

Acq: 11 Feb 2019 16:14

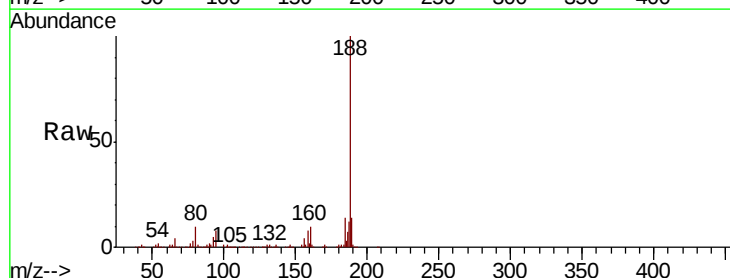
Tgt Ion:188 Resp: 422614

Ion Ratio Lower Upper

188 100

94 8.3 6.9 10.3

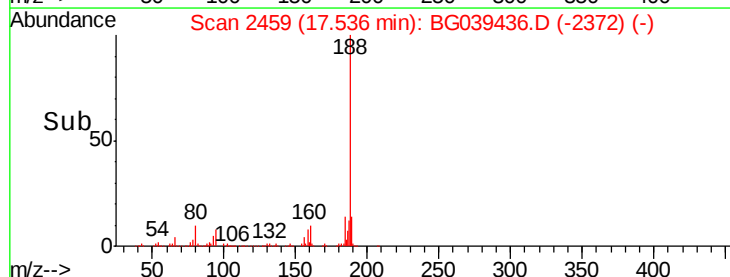
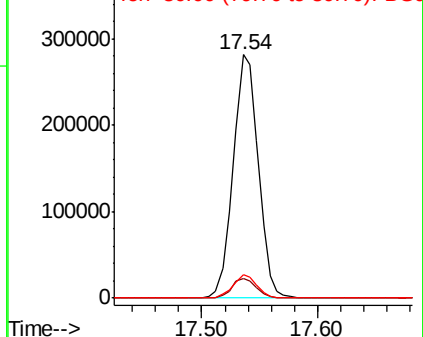
80 9.7 8.1 12.1

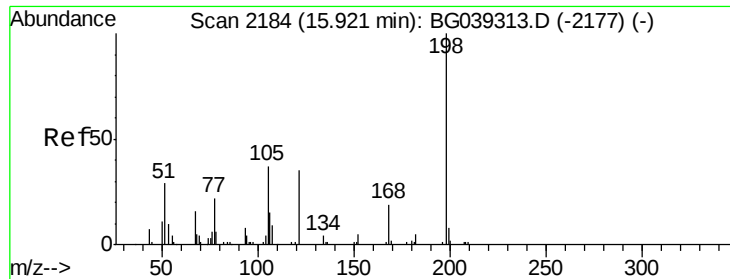


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0

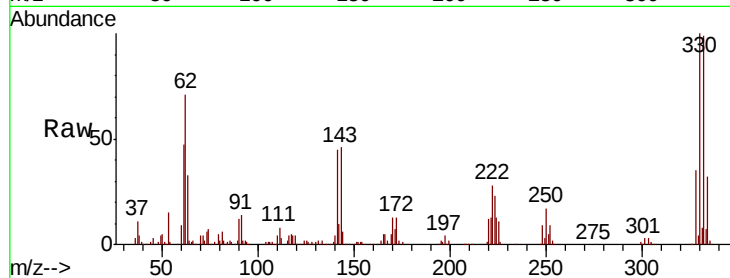




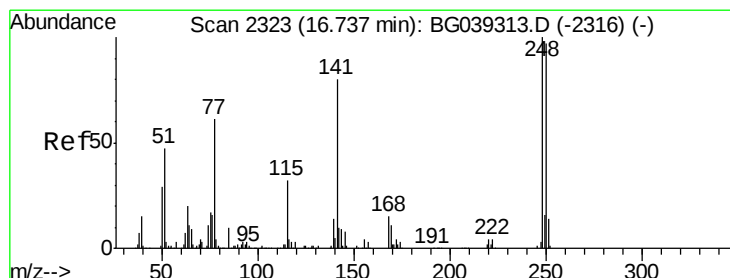
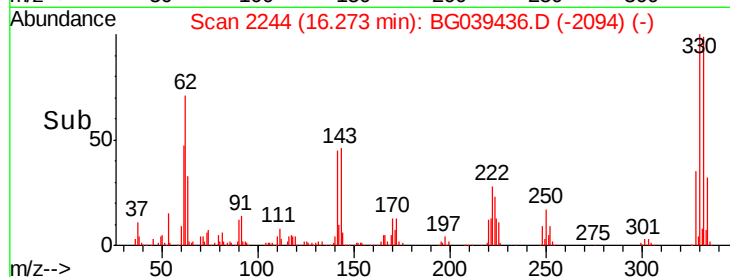
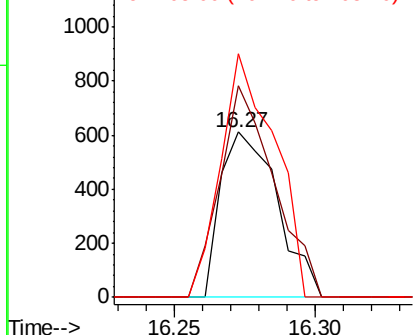
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.820 ng  
 RT: 16.27 min Scan# 2244  
 Delta R.T. 0.35 min  
 Lab File: BG039436.D  
 Acq: 11 Feb 2019 16:14

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB116987BL

Tgt Ion:198 Resp: 850  
 Ion Ratio Lower Upper  
 198 100  
 51 128.1 27.4 67.4#  
 105 147.2 19.7 59.7#

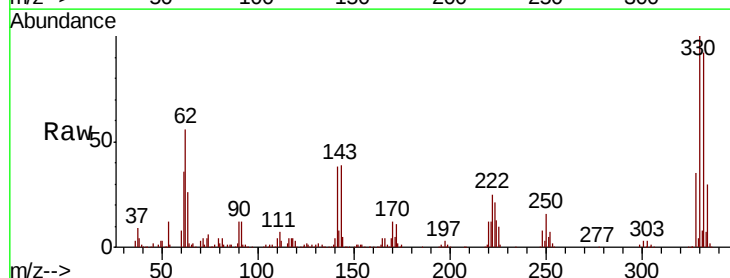


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

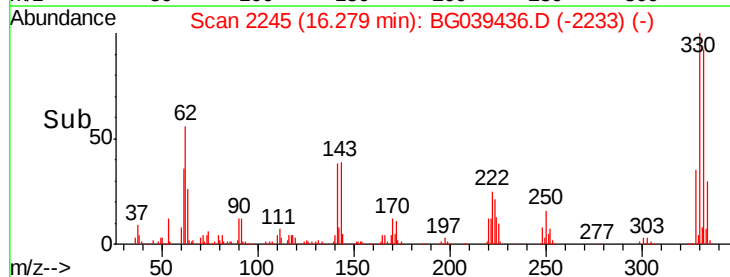
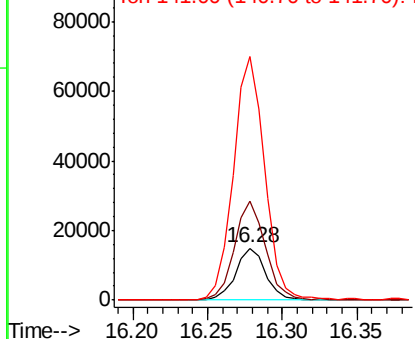


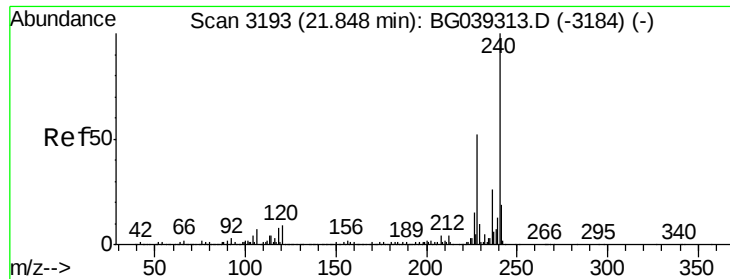
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.439 ng  
 RT: 16.28 min Scan# 2245  
 Delta R.T. -0.46 min  
 Lab File: BG039436.D  
 Acq: 11 Feb 2019 16:14

Tgt Ion:248 Resp: 20812  
 Ion Ratio Lower Upper  
 248 100  
 250 191.5 77.6 116.4#  
 141 468.8 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

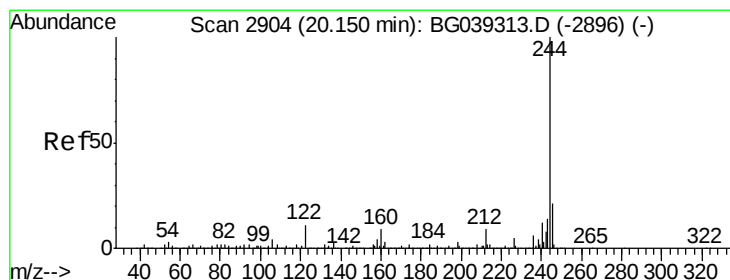
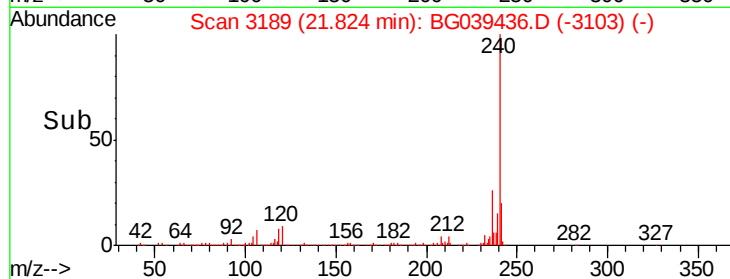
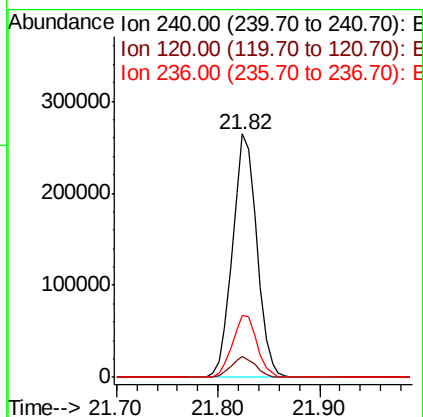
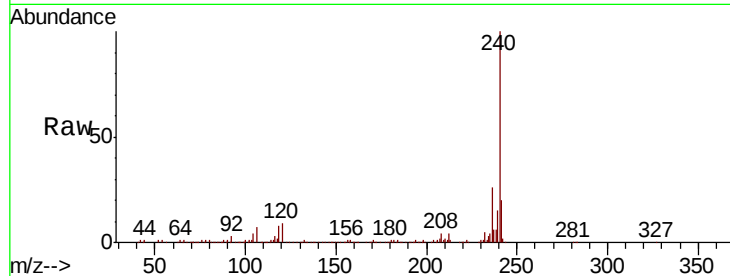




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.82 min Scan# 3189  
Delta R.T. -0.02 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

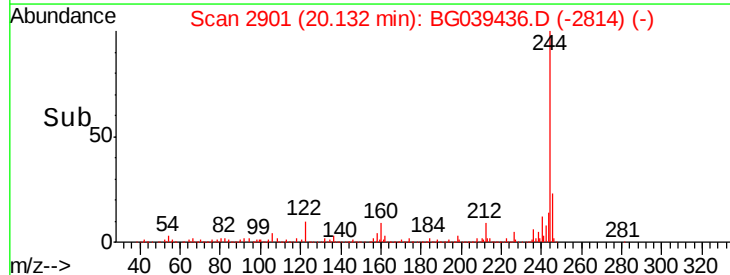
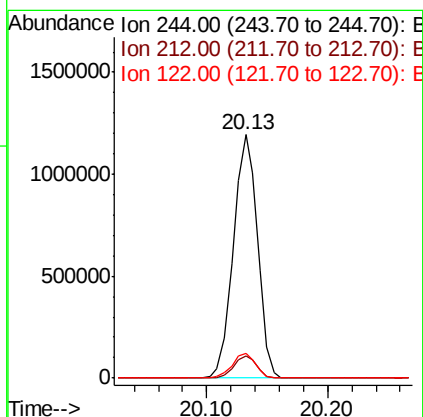
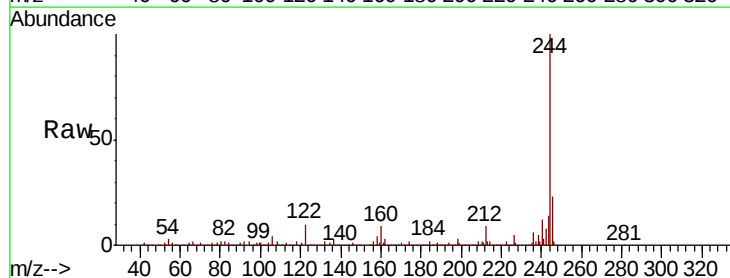
Instrument :  
BNA\_G  
ClientSampleId :  
PB116987BL

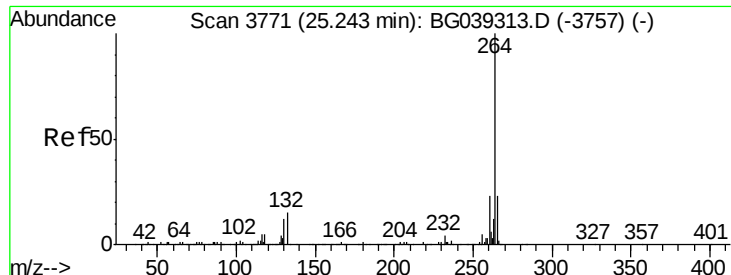
Tgt Ion:240 Resp: 439214  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.0 10.6  
236 25.6 21.0 31.4



#79  
Terphenyl-d14  
Concen: 79.832 ng  
RT: 20.13 min Scan# 2901  
Delta R.T. -0.02 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

Tgt Ion:244 Resp: 1656522  
Ion Ratio Lower Upper  
244 100  
212 9.4 7.3 10.9  
122 10.4 8.4 12.6





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.21 min Scan# 3765  
Delta R.T. -0.04 min  
Lab File: BG039436.D  
Acq: 11 Feb 2019 16:14

Instrument :  
BNA\_G  
ClientSampleId :  
PB116987BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 441540 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.5  | 18.2  | 27.4   |
| 265      | 21.2  | 18.5  | 27.7   |

