

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG030119\  
 Data File : BG039716.D  
 Acq On : 2 Mar 2019 10:04  
 Operator : JU/SJ  
 Sample : K1675-28  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 03 23:48:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 01 06:15:02 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 51932    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.99 | 136  | 221565   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.79 | 164  | 139744   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.53 | 188  | 333790   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.82 | 240  | 353285   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.20 | 264  | 339868   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.71  | 112  | 391648   | 129.07 | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 495548   | 110.95 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.34  | 82   | 382516   | 107.85 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.28 | 330  | 197561   | 131.29 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.41 | 172  | 872038   | 89.52  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.12 | 244  | 1403017  | 84.06  | ng    | 0.00     |

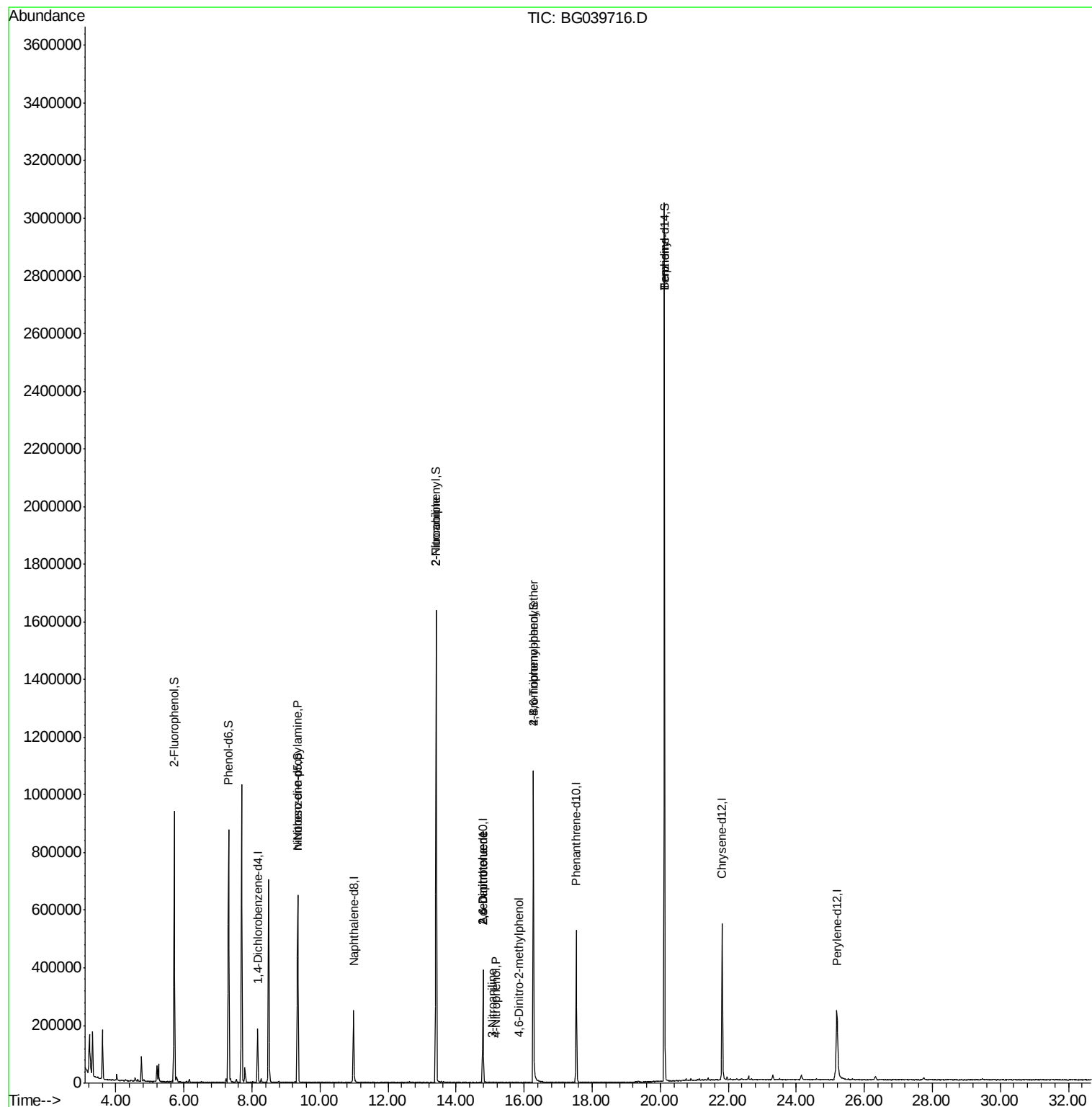
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.31  | 77   | 1463     | Below Cal |       | # 40   |
| 19) n-Nitroso-di-n-propylamine | 9.34  | 70   | 50552    | 15.947    | ng    | # 67   |
| 48) 2-Nitroaniline             | 13.41 | 65   | 1691     | 8.853     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 18069    | 13.955    | ng    | # 25   |
| 53) 3-Nitroaniline             | 15.05 | 138  | 54       | 5.814     | ng    | # 1    |
| 56) 4-Nitrophenol              | 15.19 | 139  | 351      | 5.953     | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 18069    | 13.422    | ng    | # 20   |
| 65) 4,6-Dinitro-2-methylphenol | 15.83 | 198  | 54       | 4.222     | ng    | # 32   |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 15377    | 4.153     | ng    | # 1    |
| 77) Benzidine                  | 20.12 | 184  | 24960    | 2.155     | ng    | # 91   |

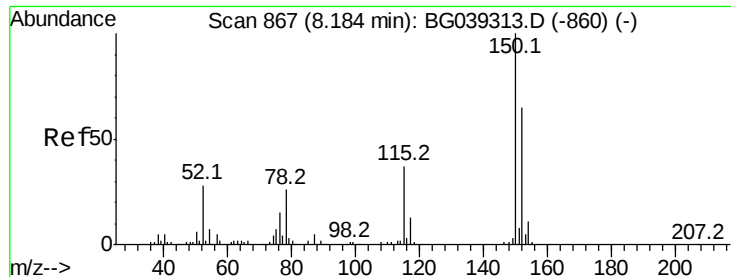
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
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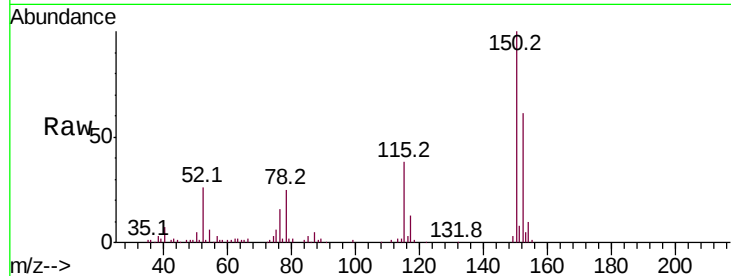


#1

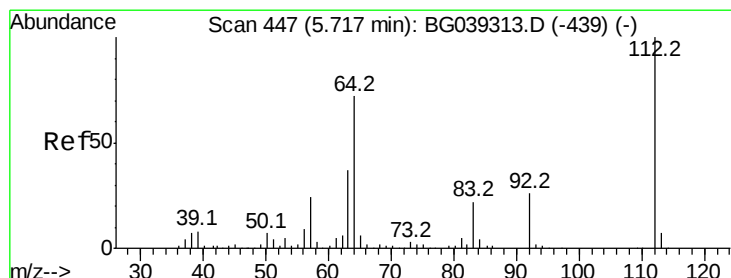
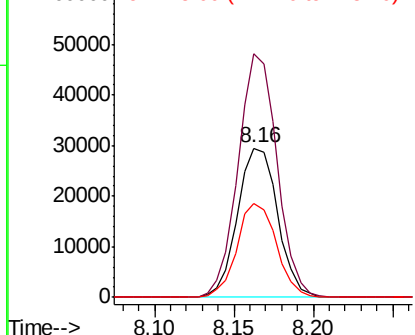
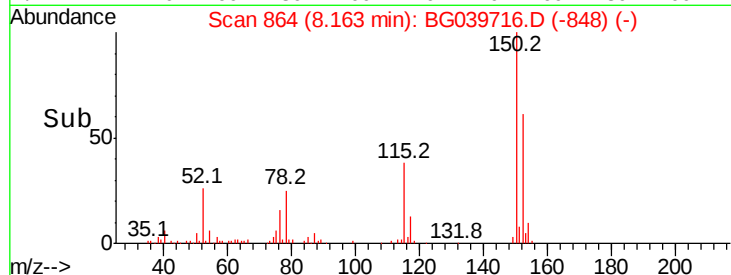
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.16 min Scan# 864  
Delta R.T. -0.01 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 51932  
Ion Ratio Lower Upper  
152 100  
150 163.4 123.7 185.5  
115 62.6 45.9 68.9



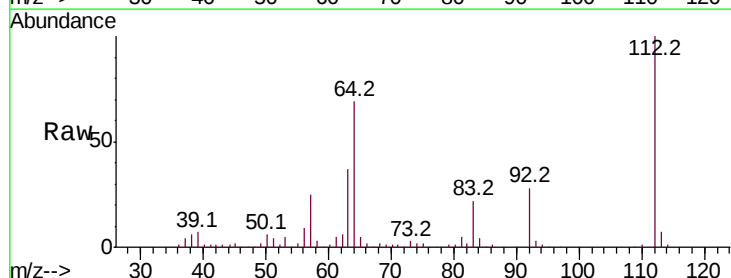
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



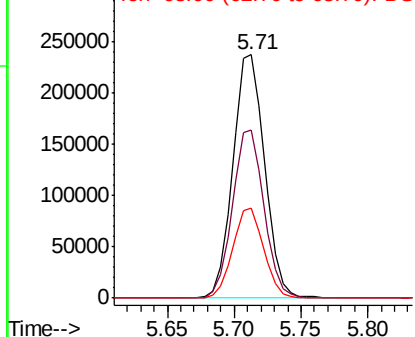
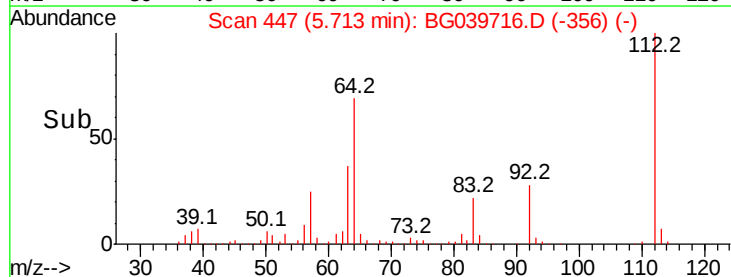
#5

2-Fluorophenol  
Concen: 129.074 ng  
RT: 5.71 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Tgt Ion:112 Resp: 391648  
Ion Ratio Lower Upper  
112 100  
64 69.1 57.8 86.8  
63 37.1 29.8 44.6



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





#7

Phenol-d6

Concen: 110.951 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.00 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Instrument :

BNA\_G

ClientSampleId :

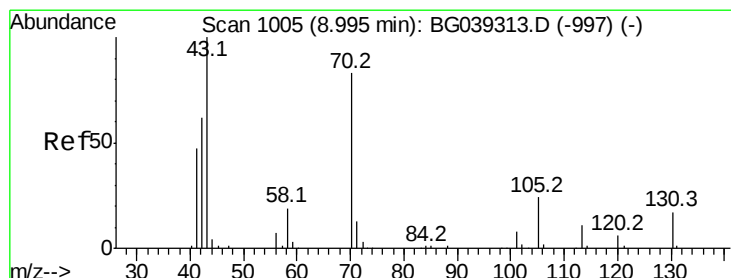
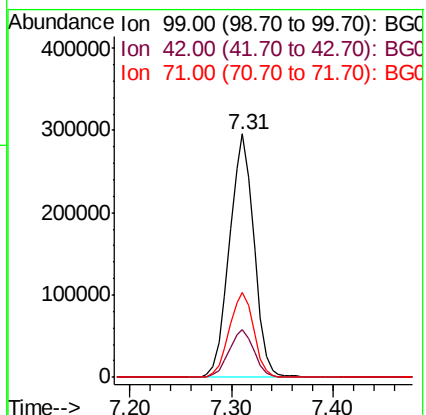
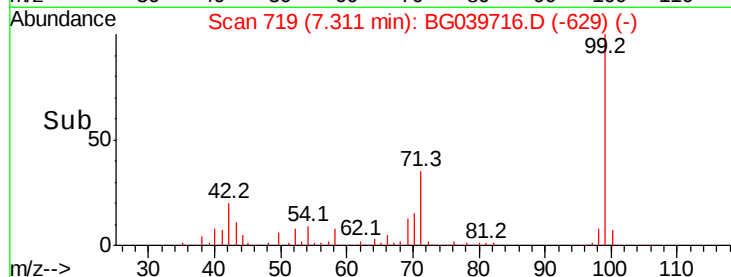
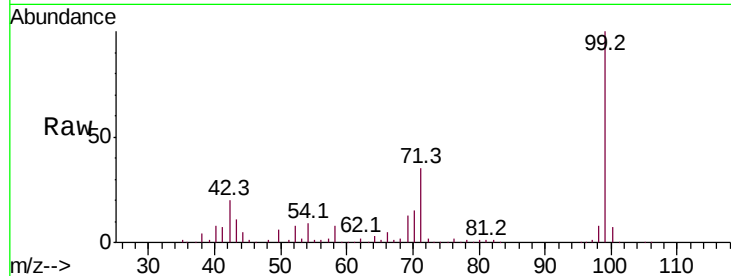
Tot Ion: 99 Resp: 495548

Ion Ratio Lower Upper

99 100

42 19.7 18.2 27.2

71 34.7 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.947 ng

RT: 9.34 min Scan# 1065

Delta R.T. 0.37 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Tgt Ion: 70 Resp: 50552

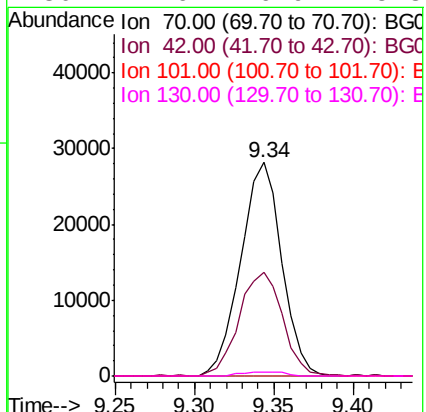
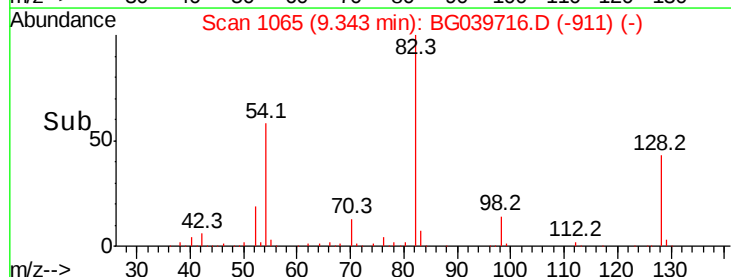
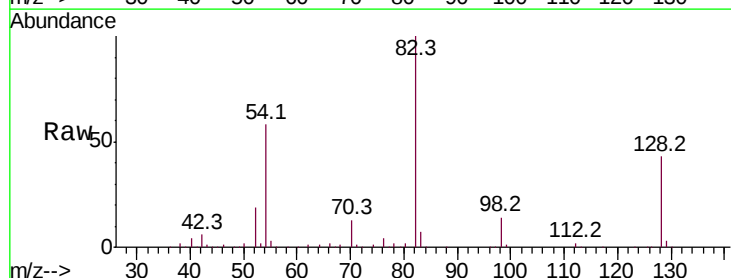
Ion Ratio Lower Upper

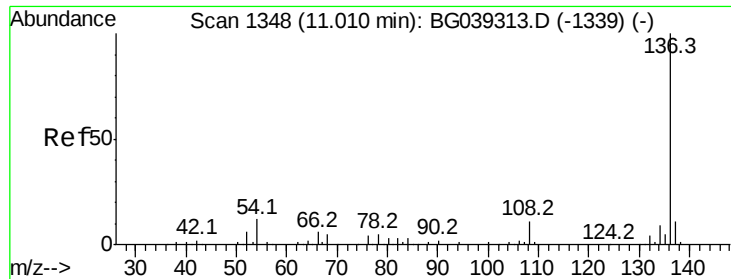
70 100

42 48.4 60.4 90.6#

101 0.0 7.5 11.3#

130 1.6 16.9 25.3#

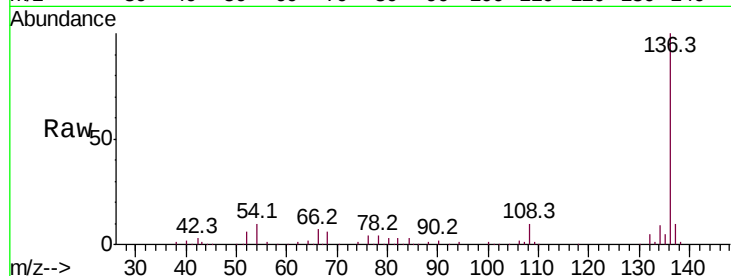




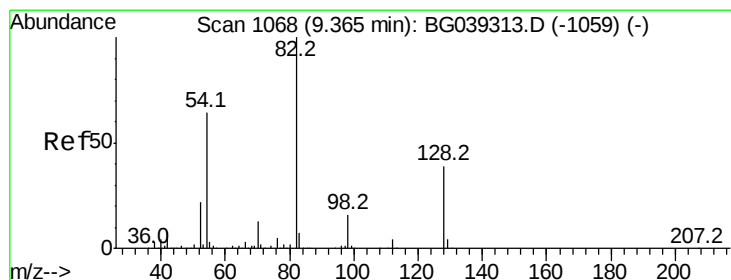
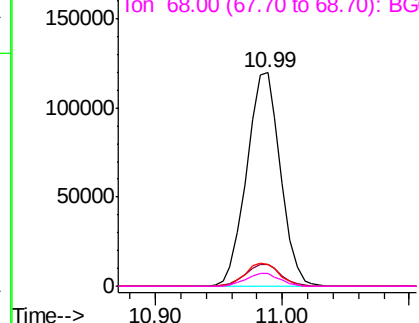
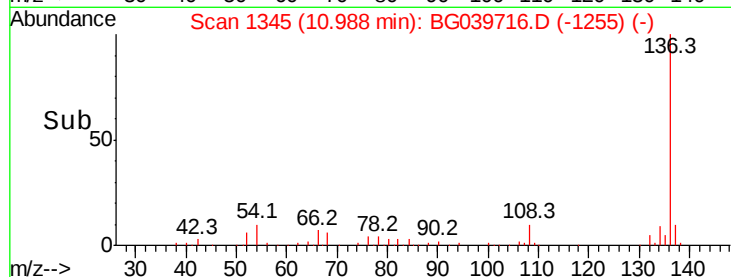
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.00 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 221565 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 9.1   | 13.7   |
| 54       | 10.4  | 9.4   | 14.2   |
| 68       | 6.0   | 4.2   | 6.4    |

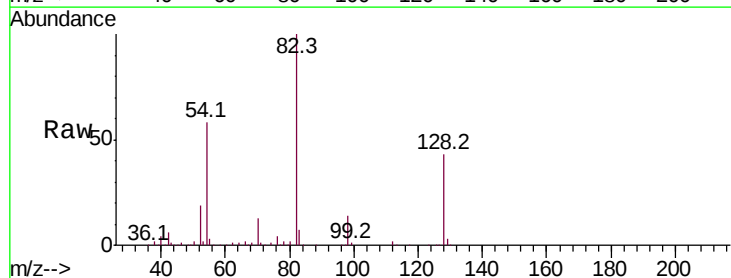


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BG  
Ion 68.00 (67.70 to 68.70): BG

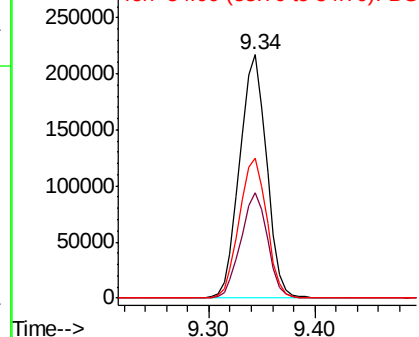
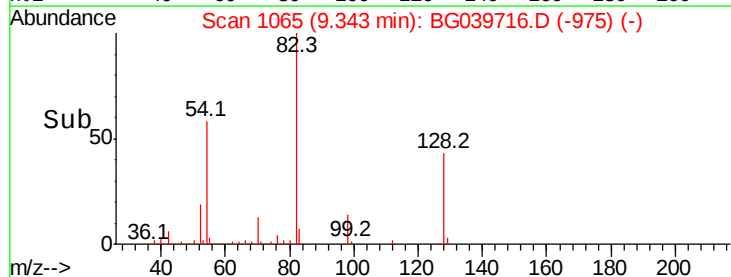


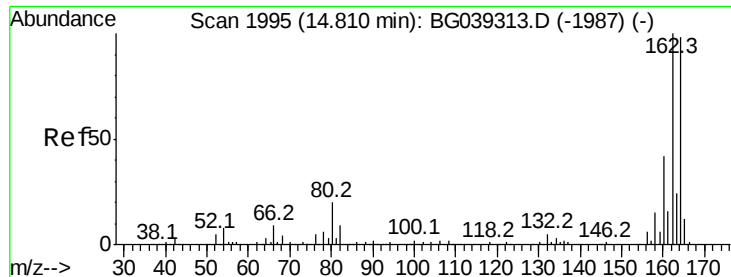
#23  
Nitrobenzene-d5  
Concen: 107.853 ng  
RT: 9.34 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 382516 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.3  | 31.3  | 46.9   |
| 54       | 57.7  | 50.9  | 76.3   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.00 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Instrument :

BNA\_G

ClientSampleId :

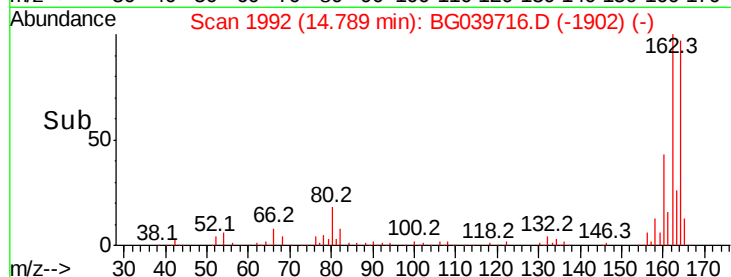
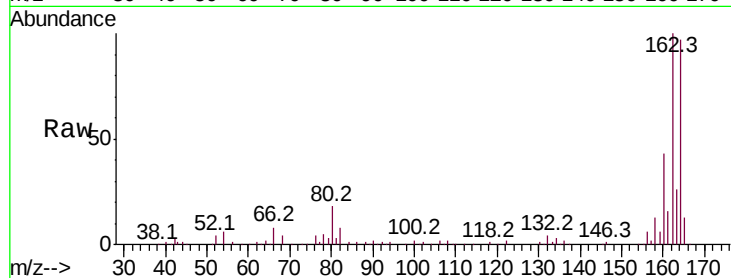
Tot Ion:164 Resp: 139744

Ion Ratio Lower Upper

164 100

162 102.7 81.6 122.4

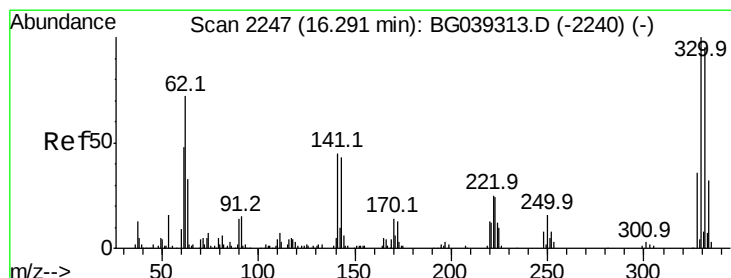
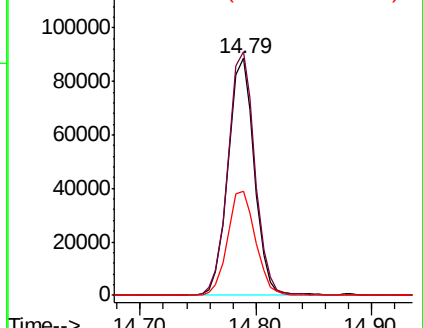
160 43.8 34.2 51.2



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: 131.287 ng

RT: 16.28 min Scan# 2245

Delta R.T. -0.00 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

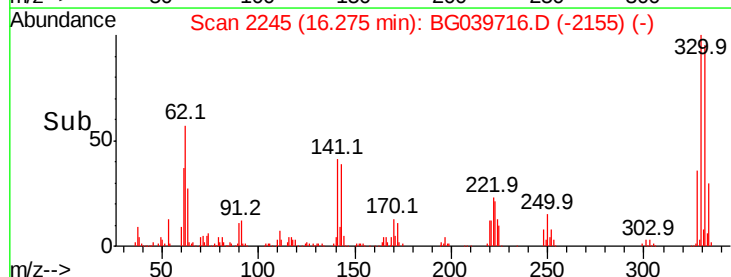
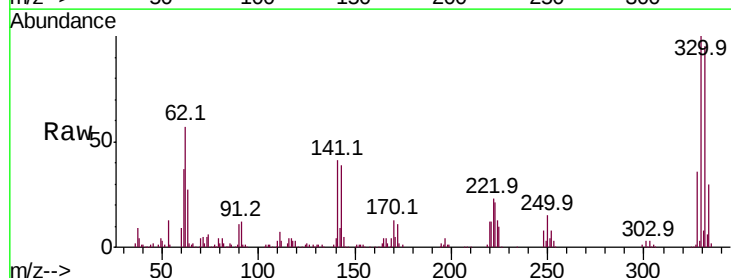
Tgt Ion:330 Resp: 197561

Ion Ratio Lower Upper

330 100

332 96.3 75.7 113.5

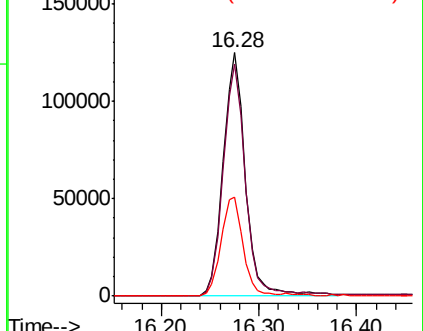
141 40.3 35.6 53.4

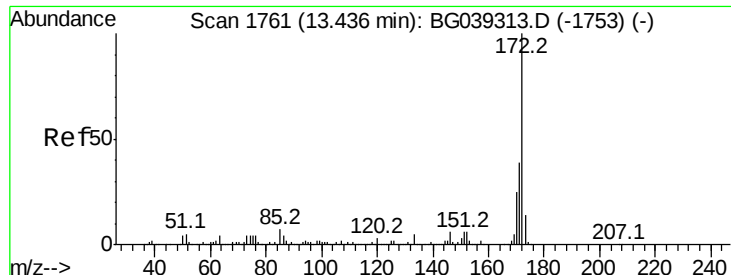


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

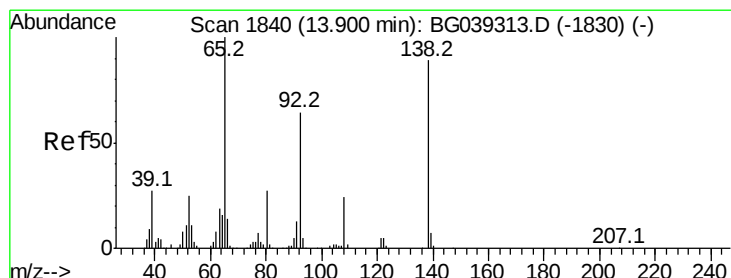
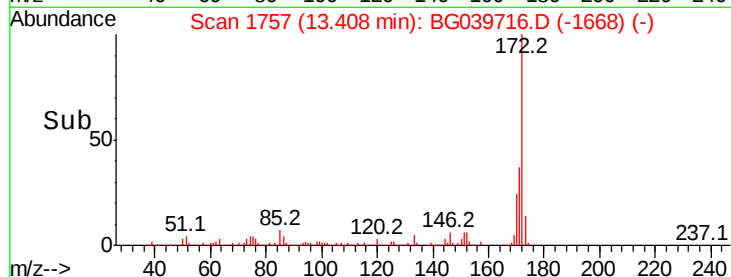
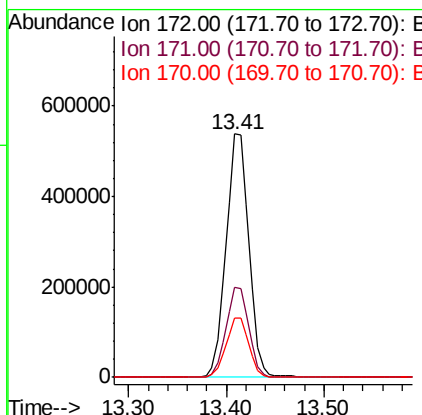
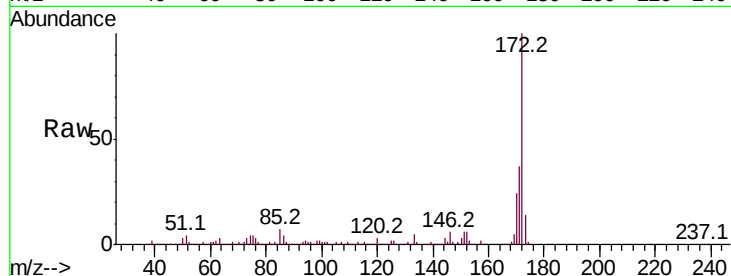




#45  
2-Fluorobiphenyl  
Concen: 89.520 ng  
RT: 13.41 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

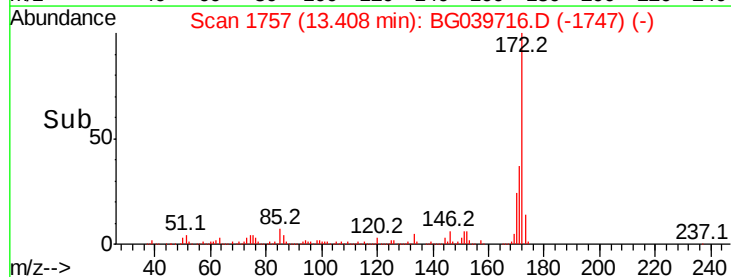
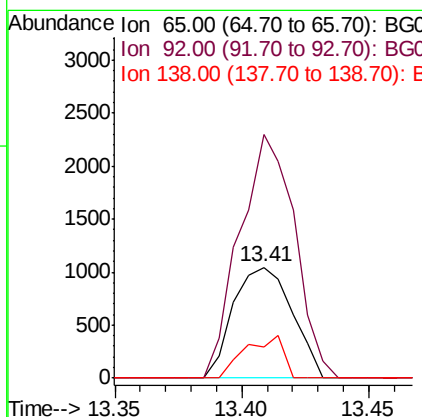
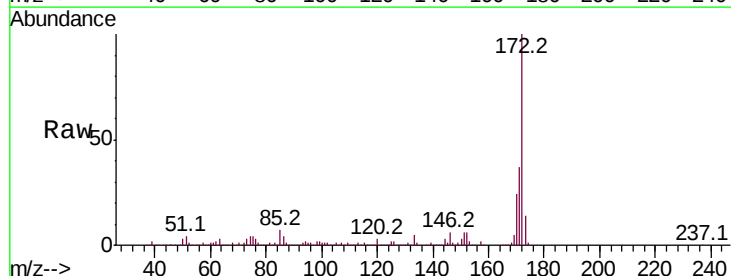
Instrument :  
BNA\_G  
ClientSampleId :

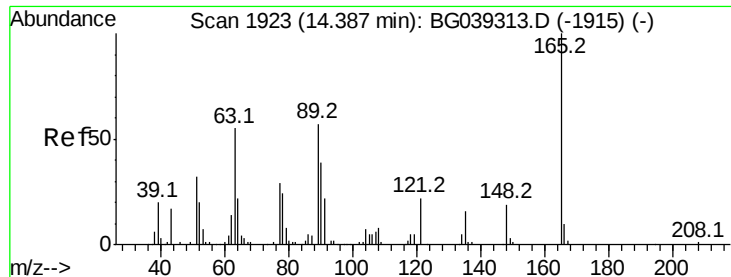
Tot Ion:172 Resp: 872038  
Ion Ratio Lower Upper  
172 100  
171 36.8 30.8 46.2  
170 24.5 20.2 30.4



#48  
2-Nitroaniline  
Concen: 8.853 ng  
RT: 13.41 min Scan# 1757  
Delta R.T. -0.47 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Tgt Ion: 65 Resp: 1691  
Ion Ratio Lower Upper  
65 100  
92 219.6 51.4 77.2#  
138 28.4 71.4 107.2#





#51

2,6-Dinitrotoluene

Concen: 13.955 ng

RT: 14.79 min Scan# 1992

Delta R.T. 0.42 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Instrument :

BNA\_G

ClientSampleId :

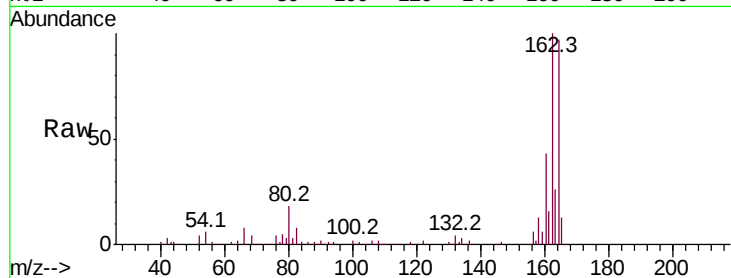
Tot Ion:165 Resp: 18069

Ion Ratio Lower Upper

165 100

63 2.9 47.0 70.6#

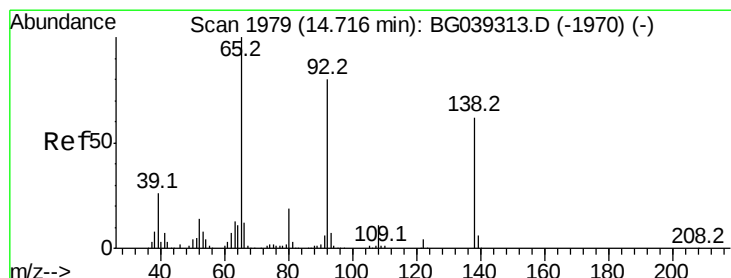
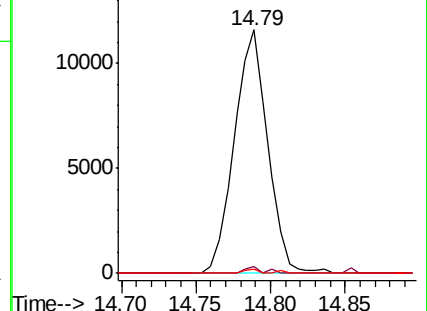
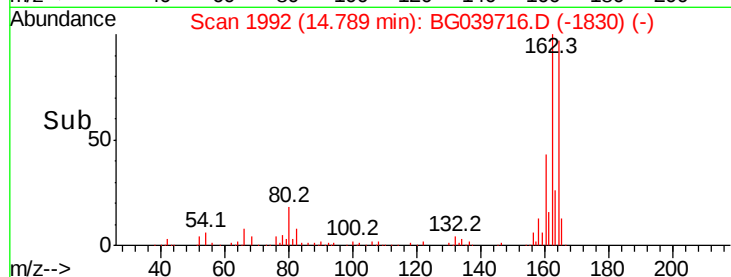
89 1.6 45.8 68.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 89.00 (88.70 to 89.70): BG0



#53

3-Nitroaniline

Concen: 5.814 ng

RT: 15.05 min Scan# 2037

Delta R.T. 0.35 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

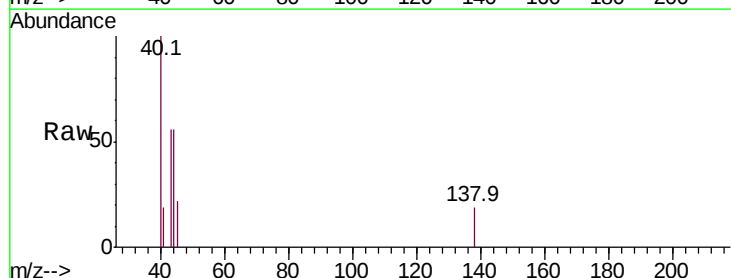
Tgt Ion:138 Resp: 54

Ion Ratio Lower Upper

138 100

108 0.0 13.8 20.8#

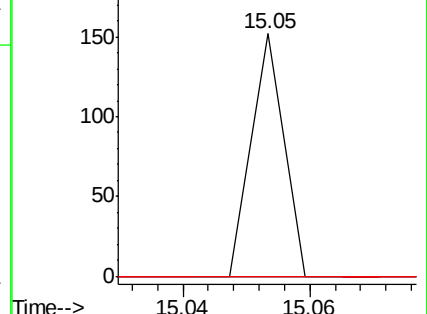
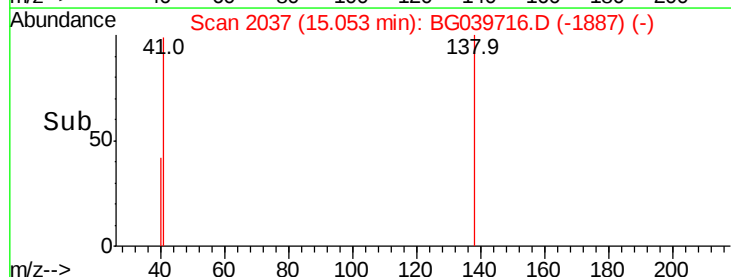
92 0.0 103.7 155.5#

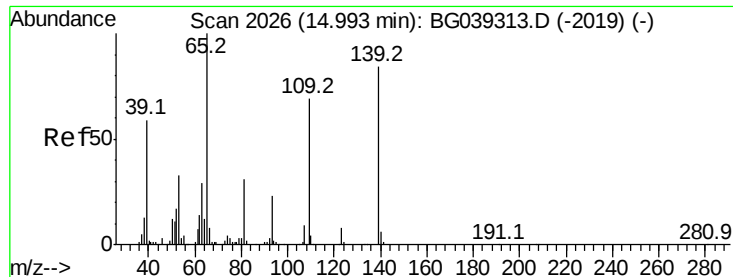


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BG0

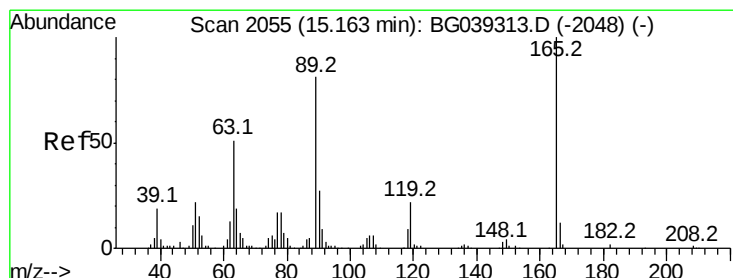
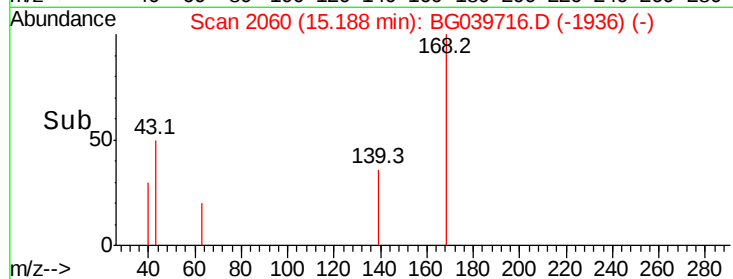
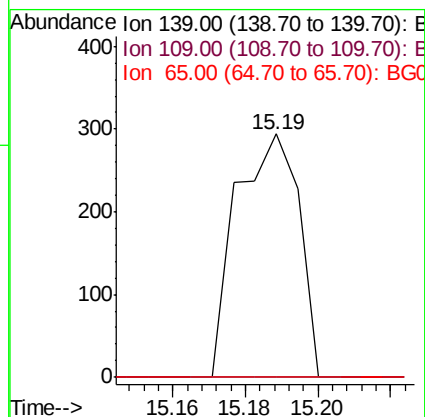
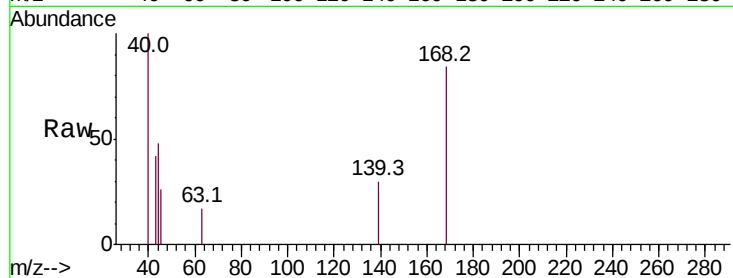




#56  
4-Nitrophenol  
Concen: 5.953 ng  
RT: 15.19 min Scan# 2060  
Delta R.T. 0.20 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

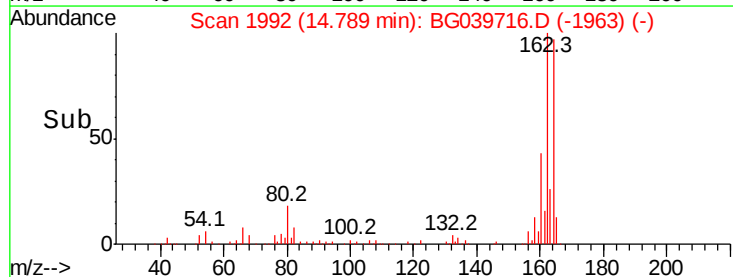
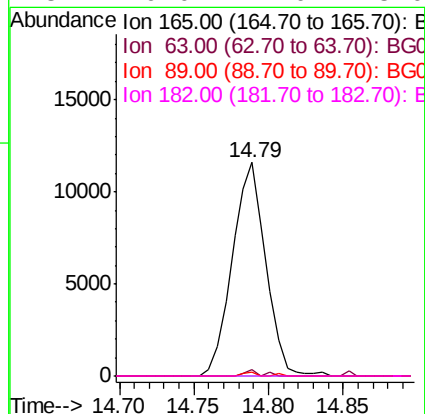
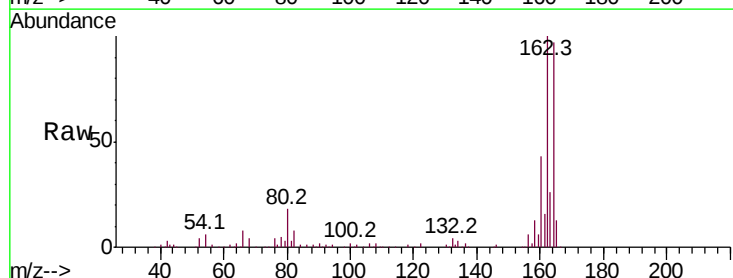
Instrument :  
BNA\_G  
ClientSampleId :

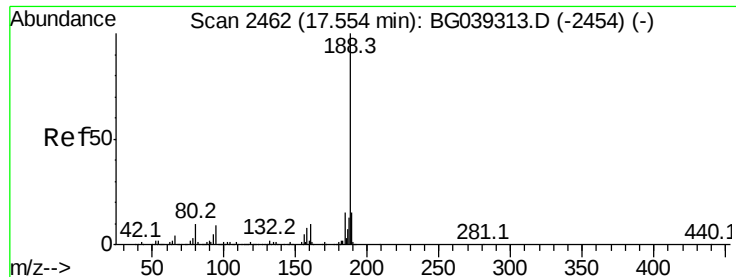
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.0   | 61.9  | 101.9# |
| 65      | 0.0   | 99.1  | 139.1# |



#57  
2,4-Dinitrotoluene  
Concen: 13.422 ng  
RT: 14.79 min Scan# 1992  
Delta R.T. -0.36 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.9   | 41.0  | 61.6# |
| 89      | 1.6   | 64.6  | 96.8# |
| 182     | 0.0   | 2.0   | 3.0#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.53 min Scan# 2459

Delta R.T. -0.00 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Instrument :

BNA\_G

ClientSampled :

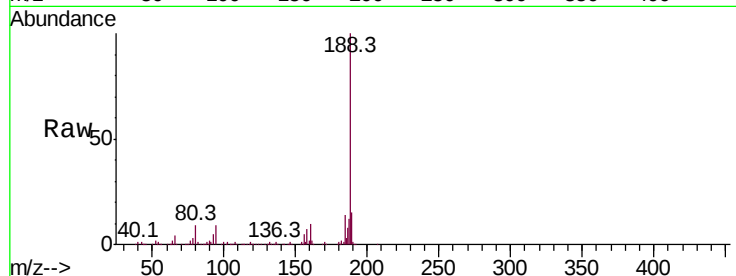
Tot Ion:188 Resp: 333790

Ion Ratio Lower Upper

188 100

94 8.5 6.9 10.3

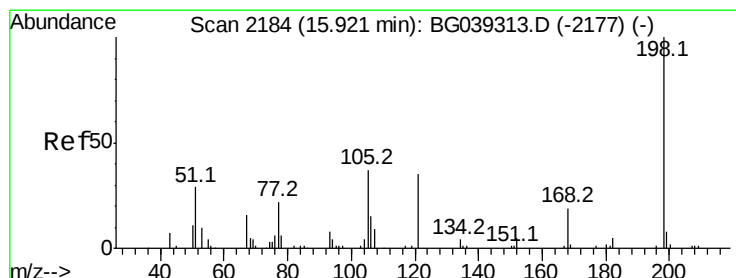
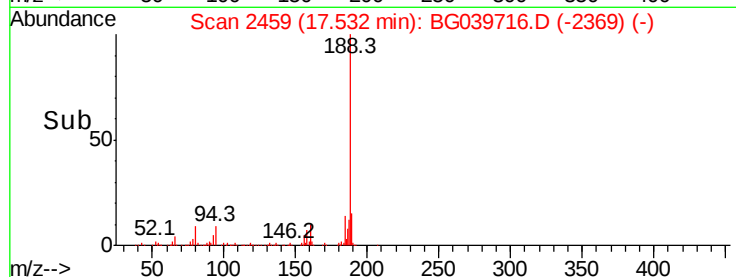
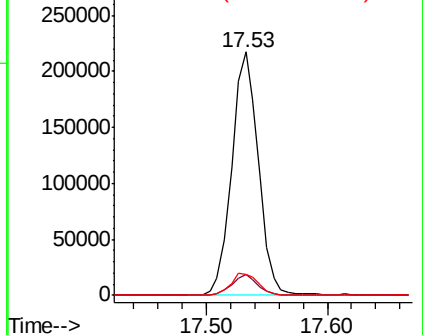
80 8.8 8.1 12.1



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



#65

4,6-Dinitro-2-methylphenol

Concen: 4.222 ng

RT: 15.83 min Scan# 2169

Delta R.T. -0.08 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

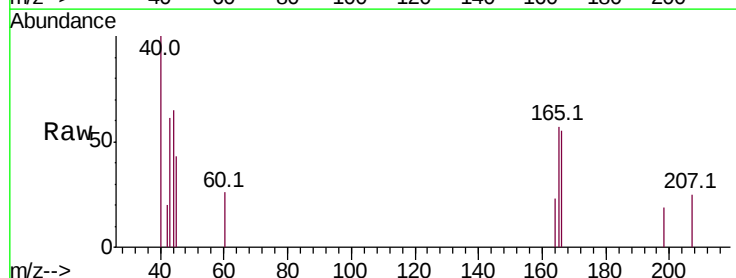
Tgt Ion:198 Resp: 54

Ion Ratio Lower Upper

198 100

51 0.0 27.4 67.4#

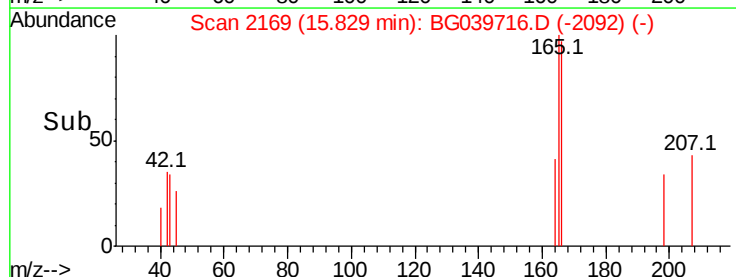
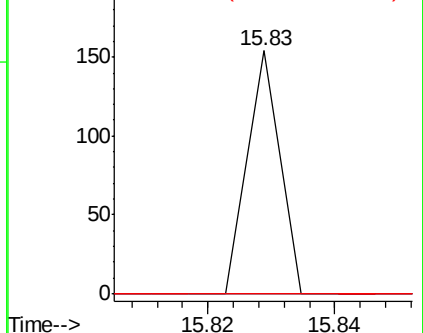
105 0.0 19.7 59.7#

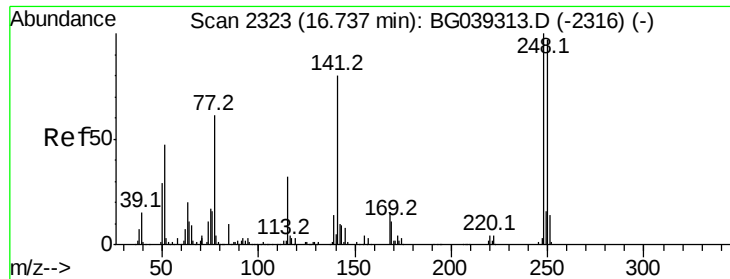


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

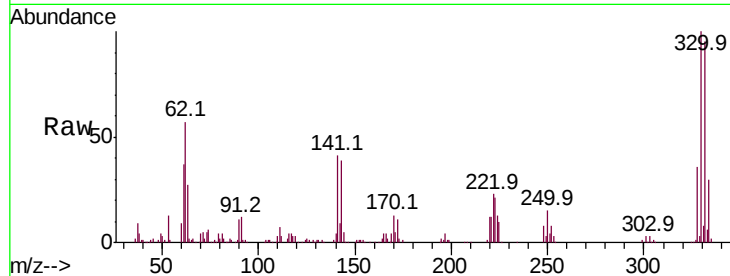




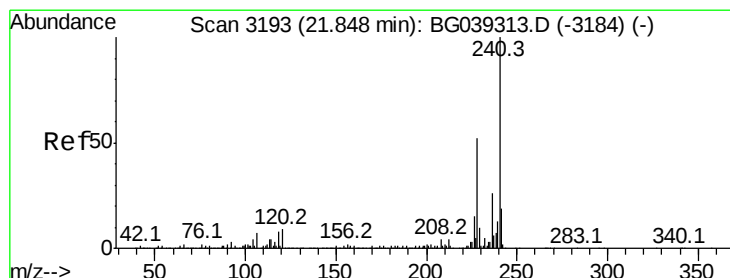
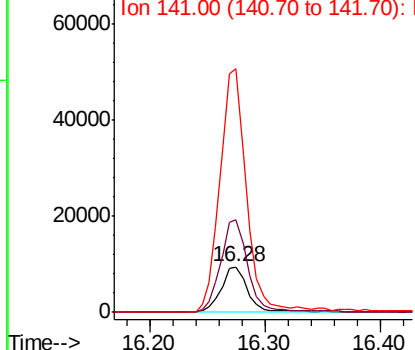
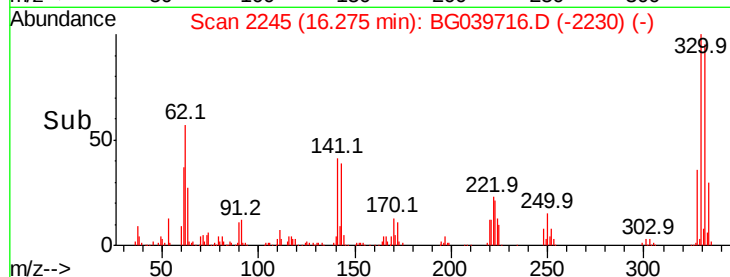
#67  
4-Bromophenyl-phenylether  
Concen: 4.153 ng  
RT: 16.28 min Scan# 2245  
Delta R.T. -0.44 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 15377  
Ion Ratio Lower Upper  
248 100  
250 204.3 77.6 116.4#  
141 534.1 63.9 95.9#

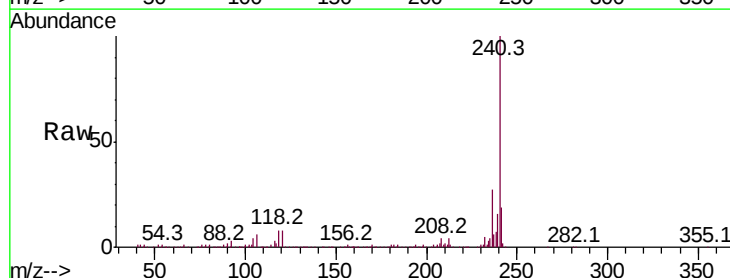


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

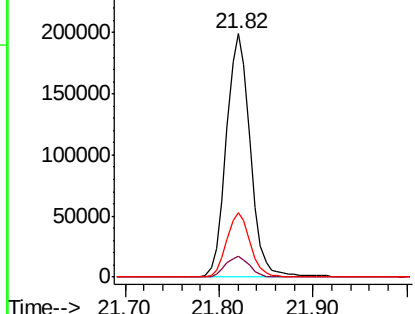
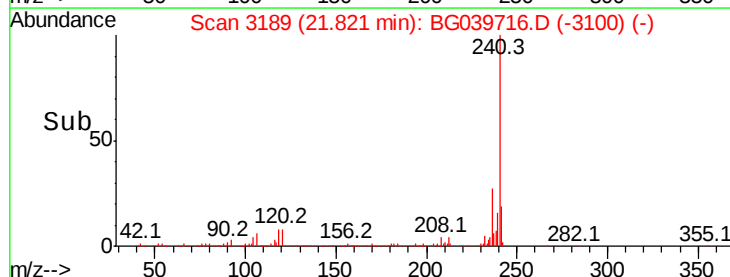


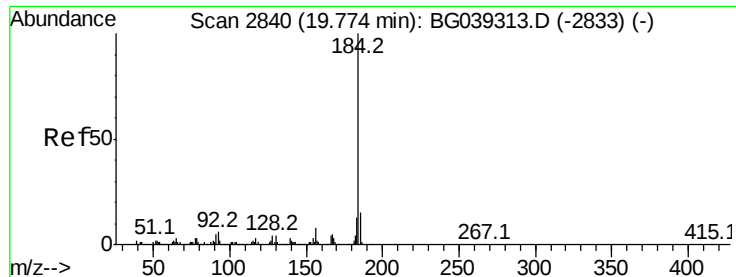
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.82 min Scan# 3189  
Delta R.T. -0.01 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Tgt Ion:240 Resp: 353285  
Ion Ratio Lower Upper  
240 100  
120 8.4 7.0 10.6  
236 26.6 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





#77

Benzidine

Concen: 2.155 ng

RT: 20.12 min Scan# 2900

Delta R.T. 0.37 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

Instrument :

BNA\_G

ClientSampleId :

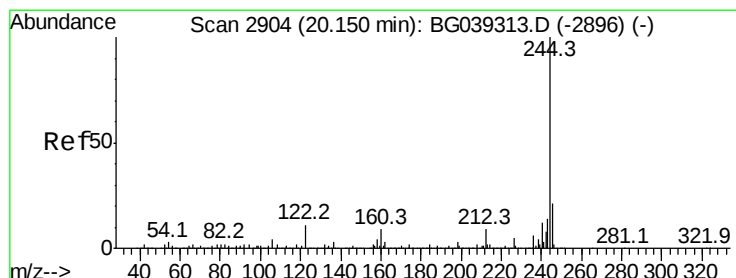
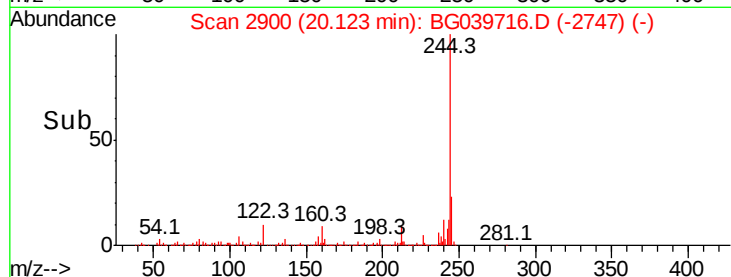
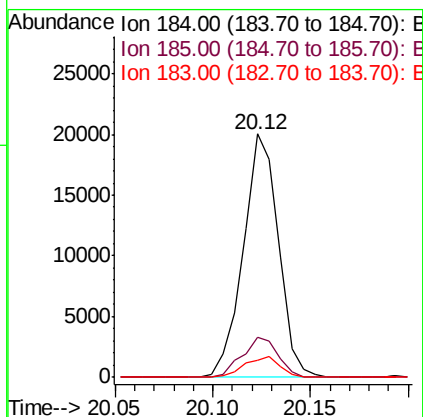
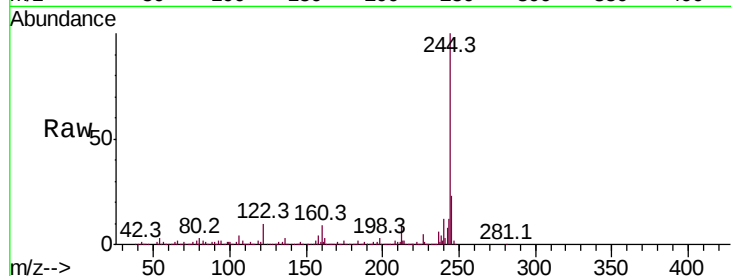
Tot Ion:184 Resp: 24960

Ion Ratio Lower Upper

184 100

185 16.6 12.2 18.2

183 6.9 10.6 15.8#



#79

Terphenyl-d14

Concen: 84.061 ng

RT: 20.12 min Scan# 2900

Delta R.T. -0.00 min

Lab File: BG039716.D

Acq: 2 Mar 2019 10:04

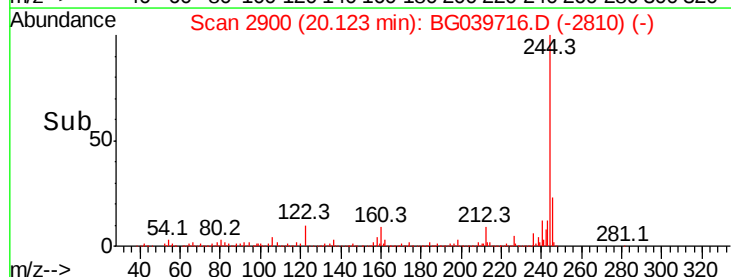
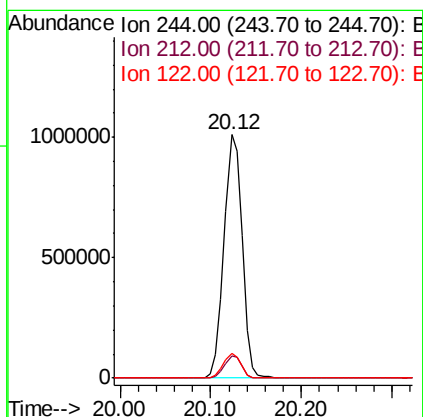
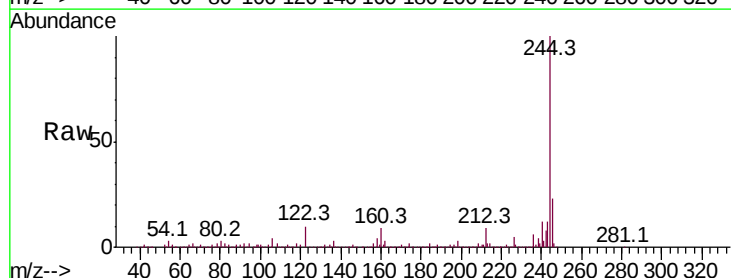
Tgt Ion:244 Resp: 1403017

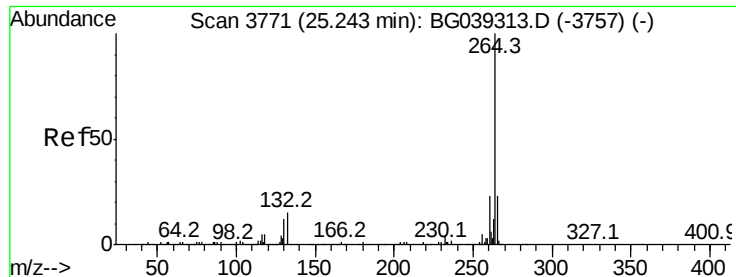
Ion Ratio Lower Upper

244 100

212 9.3 7.3 10.9

122 10.2 8.4 12.6

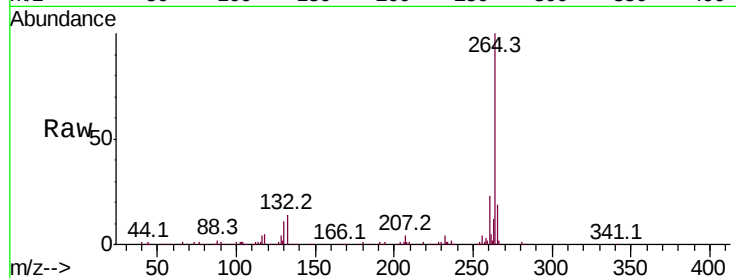




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.20 min Scan# 3764  
Delta R.T. -0.00 min  
Lab File: BG039716.D  
Acq: 2 Mar 2019 10:04

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 18.2  | 27.4  |
| 265     | 19.0  | 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

