

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011019\  
 Data File : BG039074.D  
 Acq On : 11 Jan 2019 5:08  
 Operator : JU/SJ  
 Sample : K1015-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 11 06:49:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 09 14:23:53 2019  
 Response via : Initial Calibration

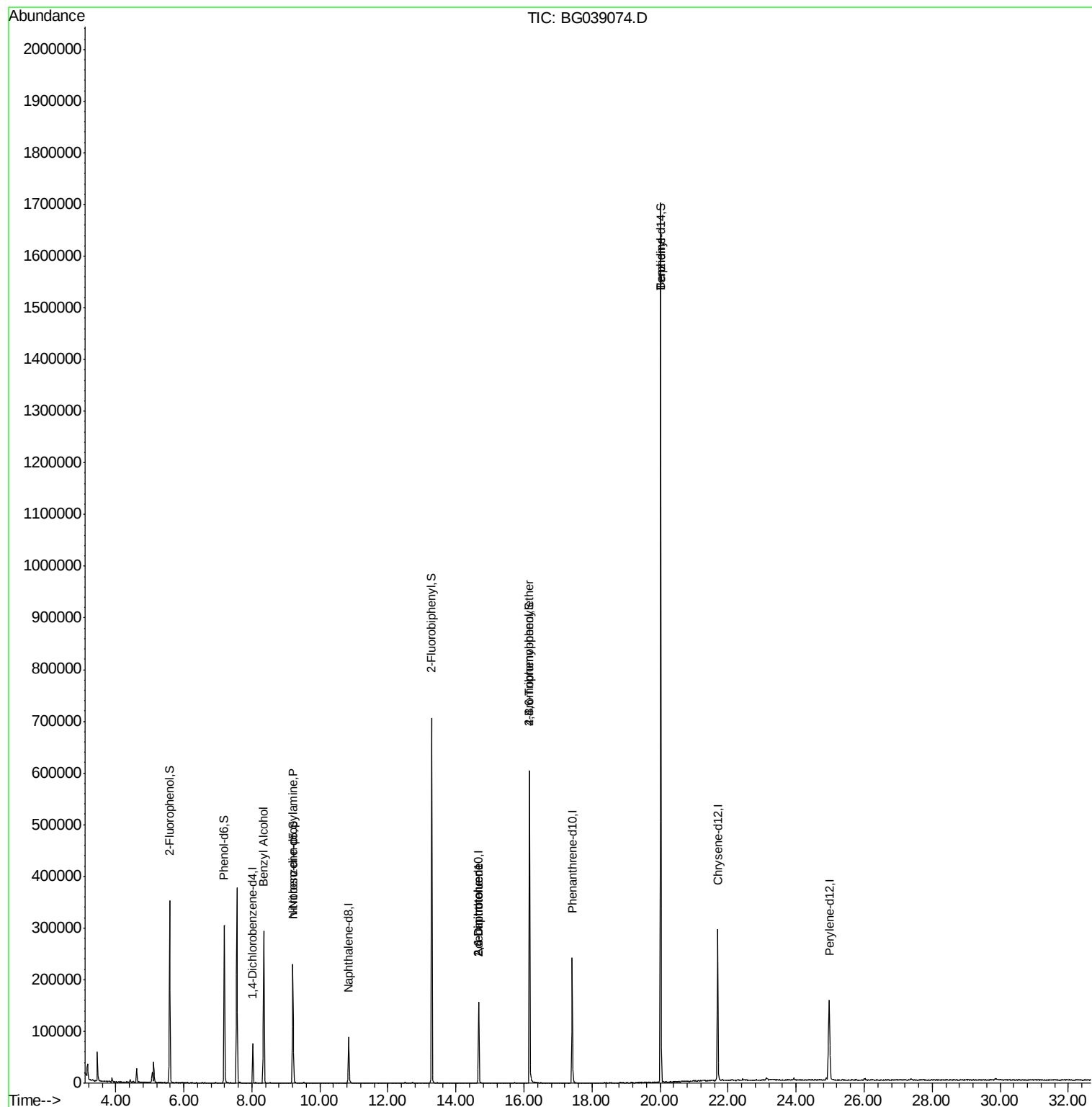
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 22230    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 82819    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.67 | 164  | 59248    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.42 | 188  | 167195   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.69 | 240  | 188975   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 24.97 | 264  | 196156   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 156463   | 133.52 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 187033   | 110.90 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 140727   | 92.98  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.16 | 330  | 144233   | 145.23 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 394752   | 91.18  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 886972   | 86.83  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.35  | 79   | 2566     | 2.020  | ng    | # 48     |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 19180    | 17.319 | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 7418     | 6.627  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 7418     | 4.619  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 9227     | 4.293  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 13952    | 2.414  | ng    | # 95     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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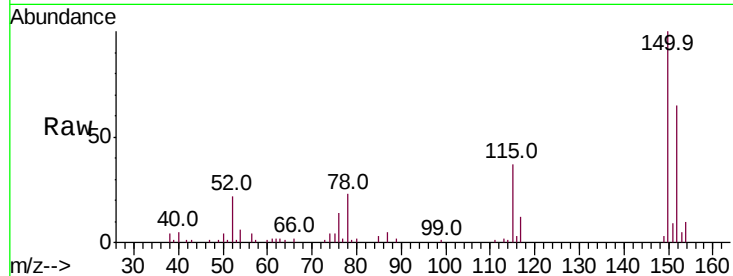


#1

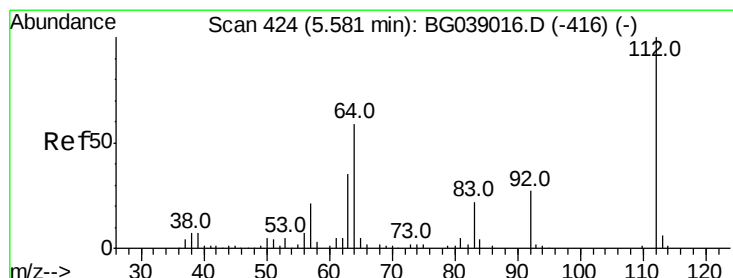
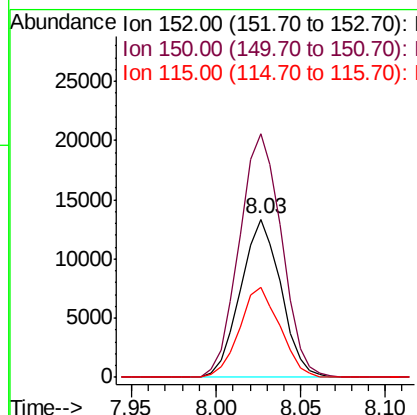
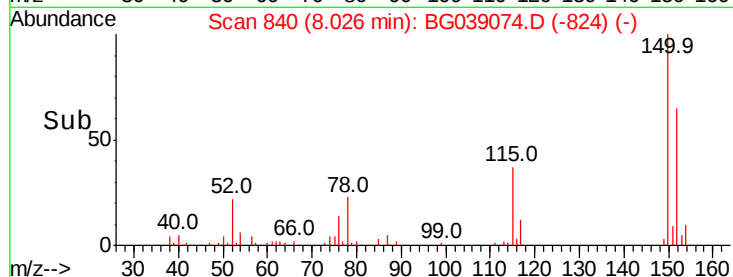
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 22230  
Ion Ratio Lower Upper  
152 100  
150 153.9 124.7 187.1  
115 57.1 46.5 69.7



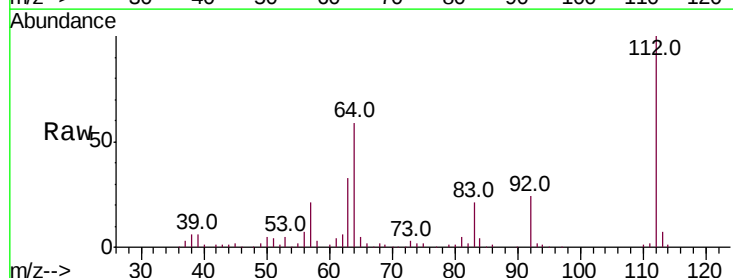
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



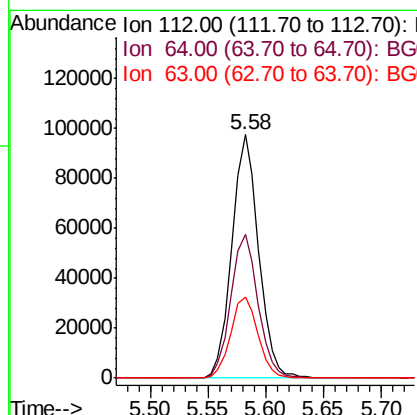
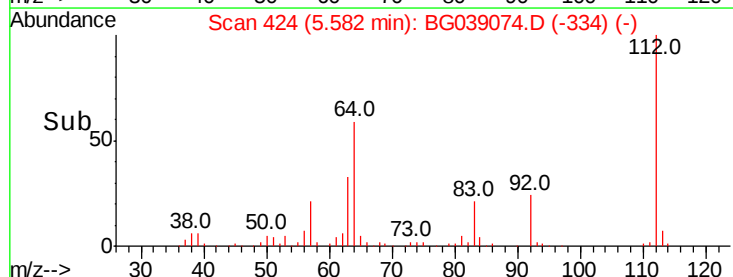
#5

2-Fluorophenol  
Concen: 133.517 ng  
RT: 5.58 min Scan# 424  
Delta R.T. 0.00 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

Tgt Ion:112 Resp: 156463  
Ion Ratio Lower Upper  
112 100  
64 58.9 47.0 70.6  
63 33.1 28.0 42.0



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: 110.903 ng

RT: 7.19 min Scan# 697

Delta R.T. -0.01 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

Instrument :

BNA\_G

ClientSampled :

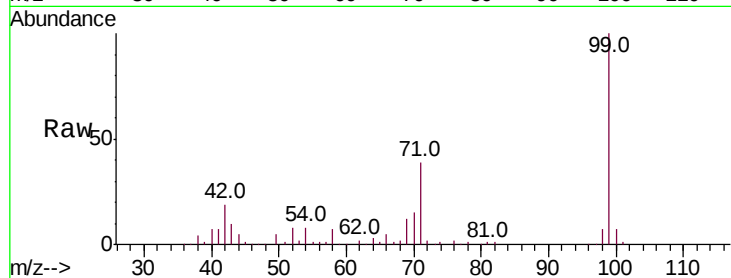
Tot Ion: 99 Resp: 187033

Ion Ratio Lower Upper

99 100

42 19.1 15.8 23.6

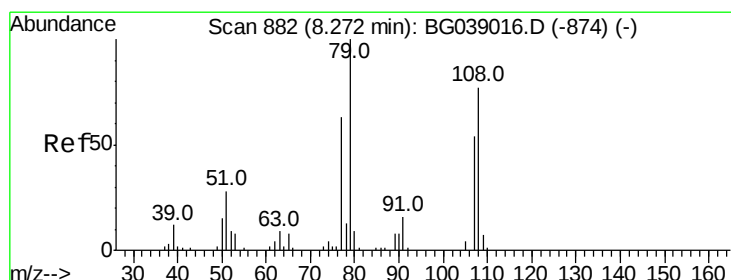
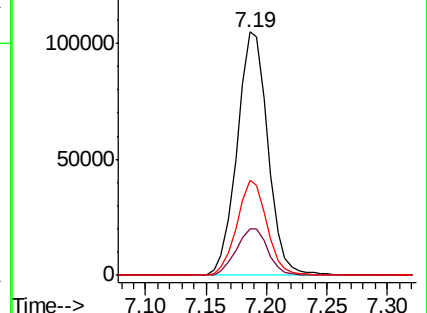
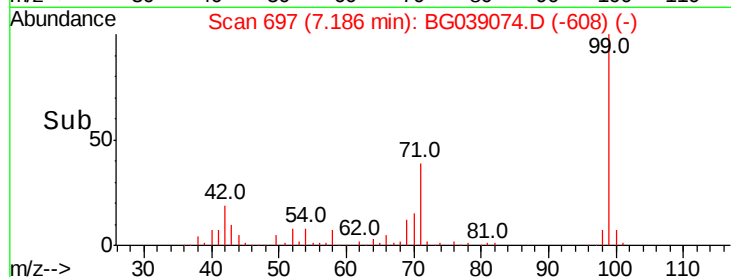
71 38.9 30.2 45.4



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



#15

Benzyl Alcohol

Concen: 2.020 ng

RT: 8.35 min Scan# 895

Delta R.T. 0.08 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

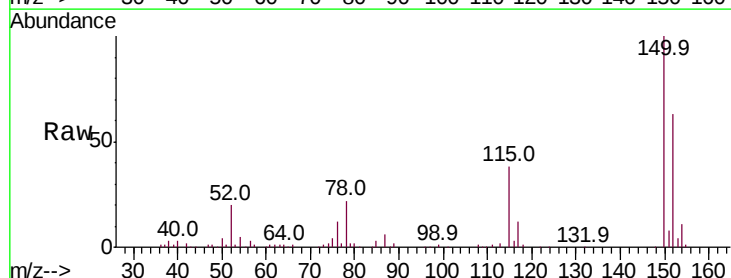
Tgt Ion: 79 Resp: 2566

Ion Ratio Lower Upper

79 100

108 32.3 62.0 93.0#

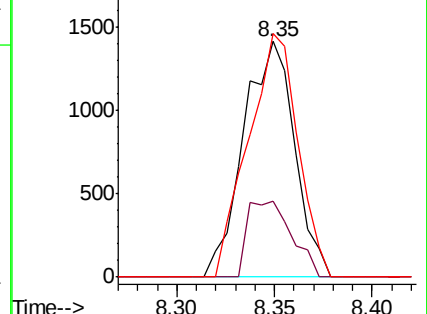
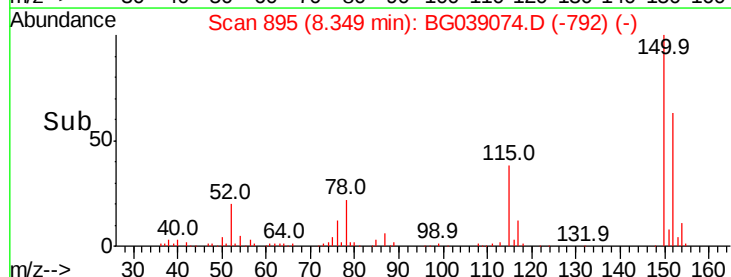
77 103.2 50.1 75.1#

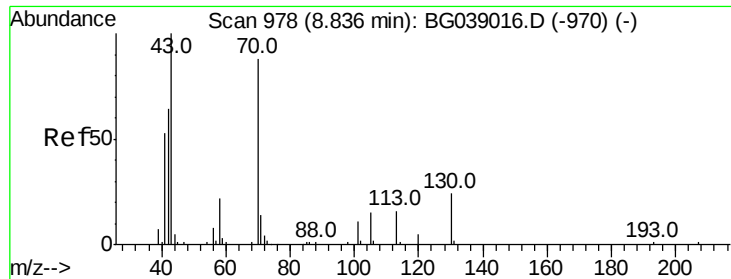


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

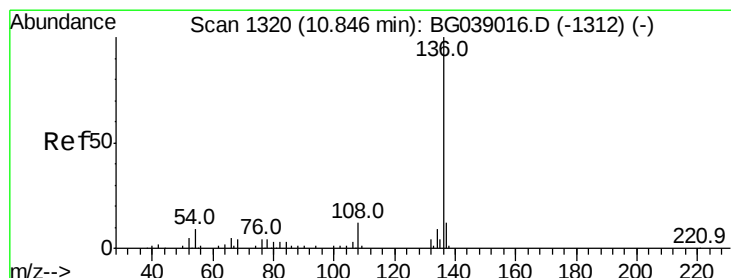
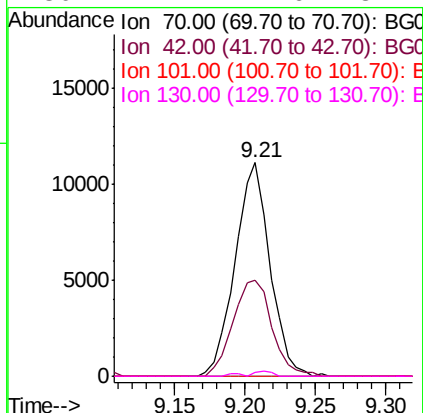
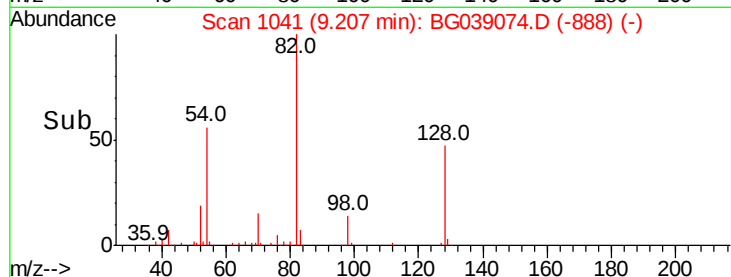
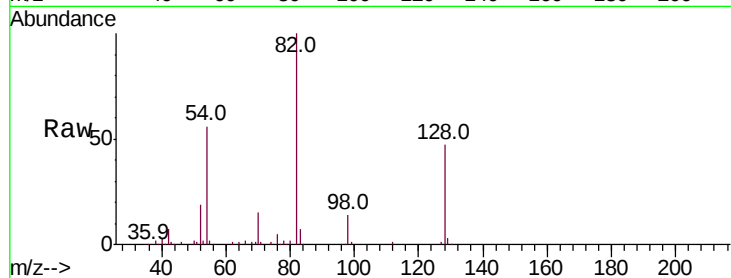




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.319 ng  
RT: 9.21 min Scan# 1041  
Delta R.T. 0.37 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

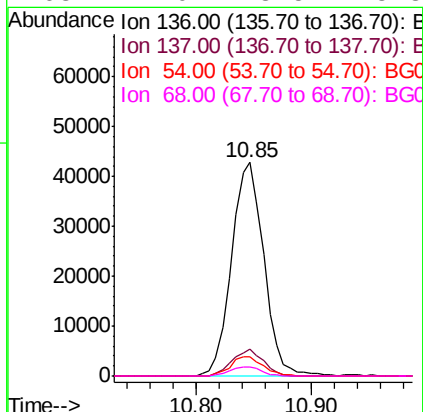
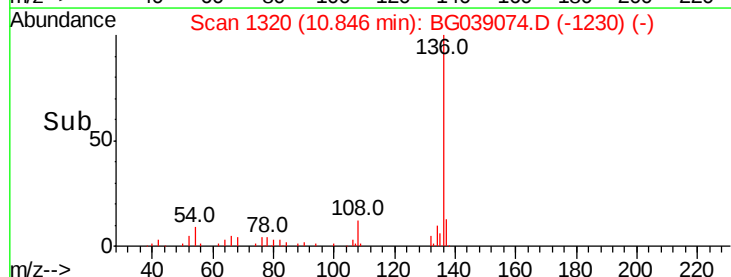
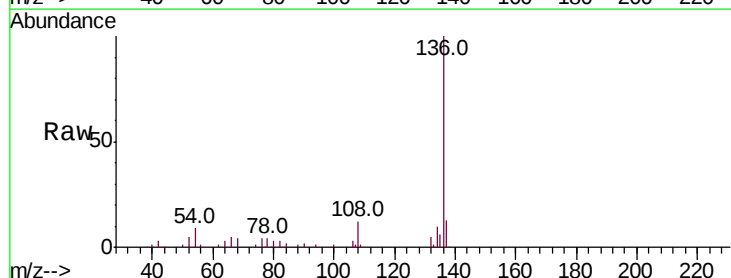
Instrument :  
BNA\_G  
ClientSampleId :

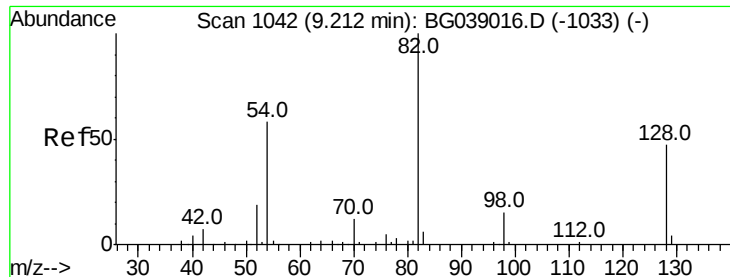
Tot Ion: 70 Resp: 19180  
Ion Ratio Lower Upper  
70 100  
42 44.8 59.0 88.4#  
101 0.0 10.4 15.6#  
130 2.1 21.6 32.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1320  
Delta R.T. 0.00 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

Tgt Ion: 136 Resp: 82819  
Ion Ratio Lower Upper  
136 100  
137 12.6 9.4 14.2  
54 9.3 7.2 10.8  
68 4.0 3.5 5.3

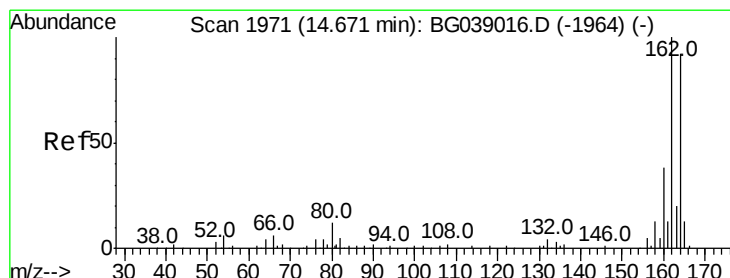
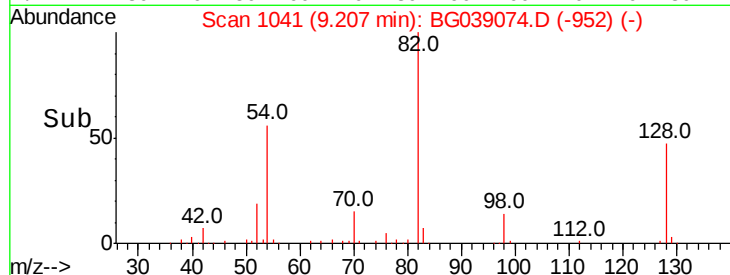
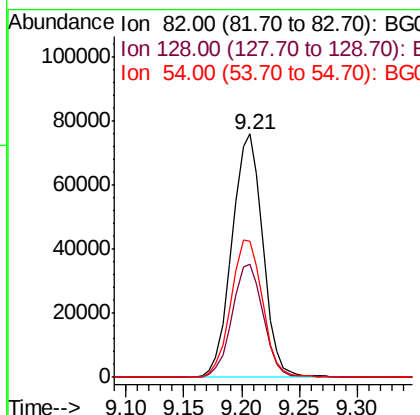
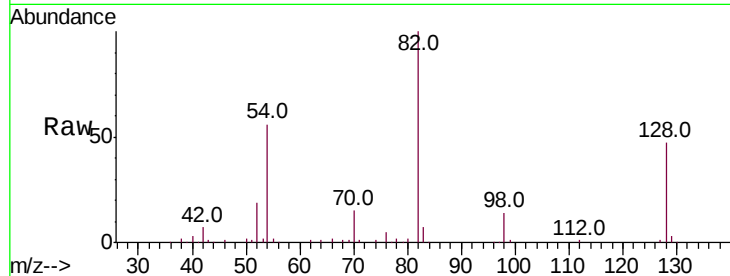




#23  
Nitrobenzene-d5  
Concen: 92.980 ng  
RT: 9.21 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

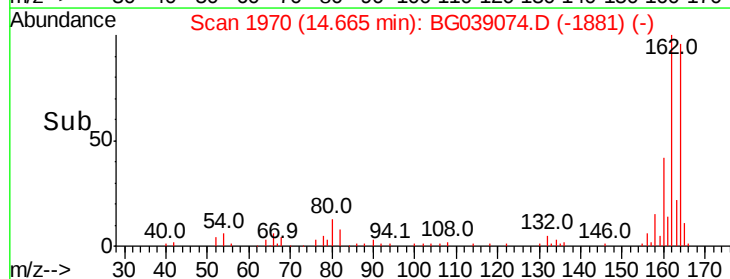
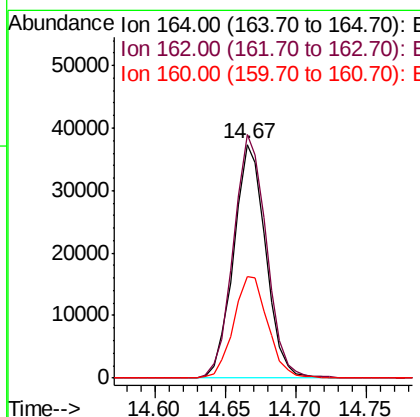
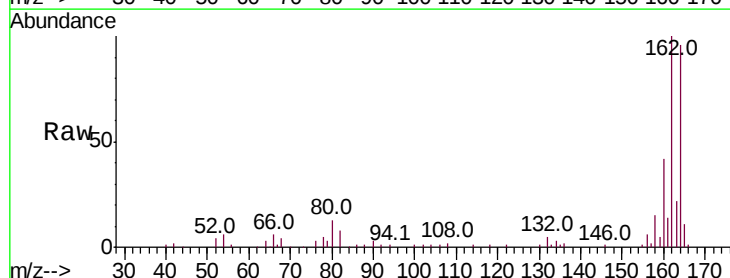
Instrument :  
BNA\_G  
ClientSampleId :

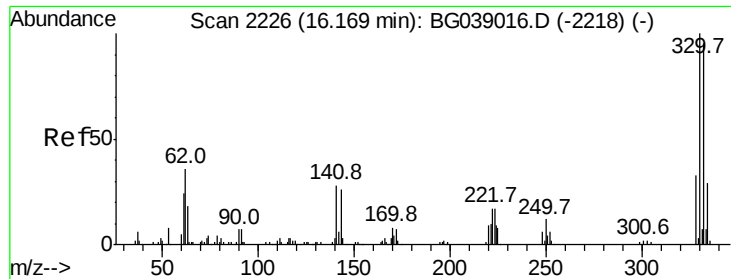
Tot Ion: 82 Resp: 140727  
Ion Ratio Lower Upper  
82 100  
128 46.5 37.3 55.9  
54 56.1 46.4 69.6



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: BG039074.D  
Acq: 11 Jan 2019 5:08

Tgt Ion: 164 Resp: 59248  
Ion Ratio Lower Upper  
164 100  
162 104.3 87.2 130.8  
160 43.3 33.3 49.9

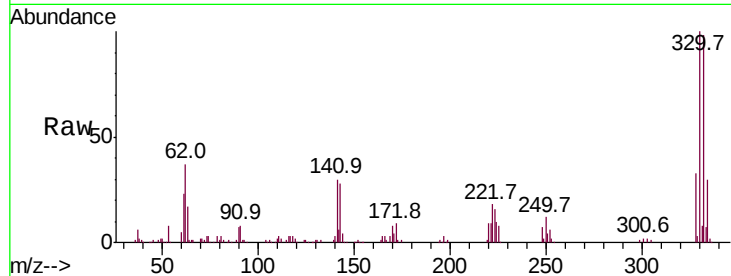




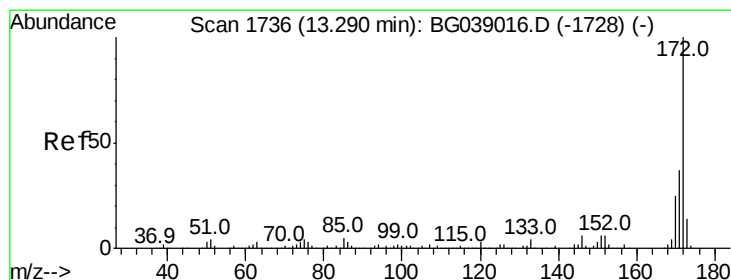
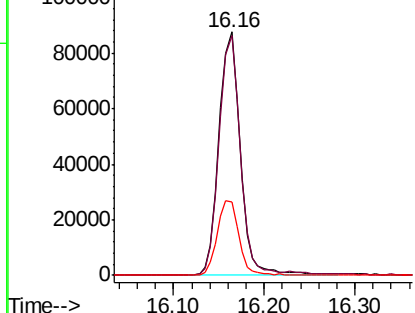
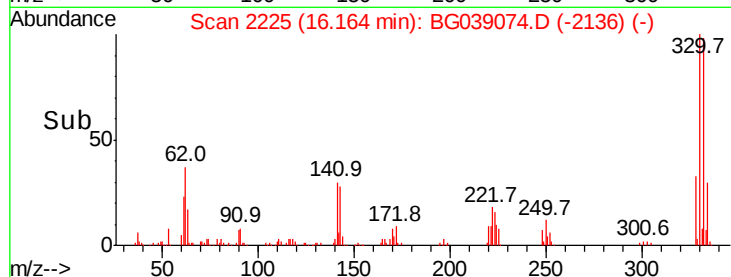
#42  
 2,4,6-Tribromophenol  
 Concen: 145.226 ng  
 RT: 16.16 min Scan# 2225  
 Delta R.T. -0.01 min  
 Lab File: BG039074.D  
 Acq: 11 Jan 2019 5:08

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 75.7  | 113.5 |
| 141     | 30.9  | 24.9  | 37.3  |

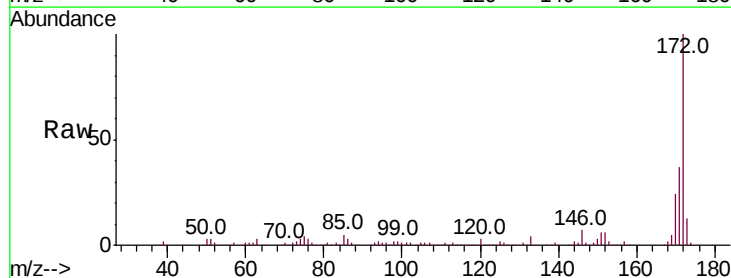


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

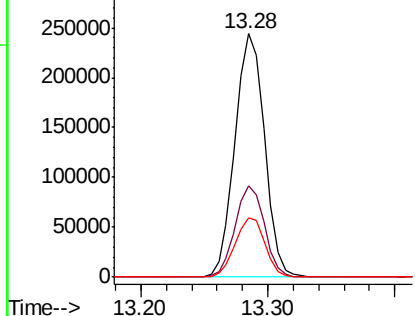
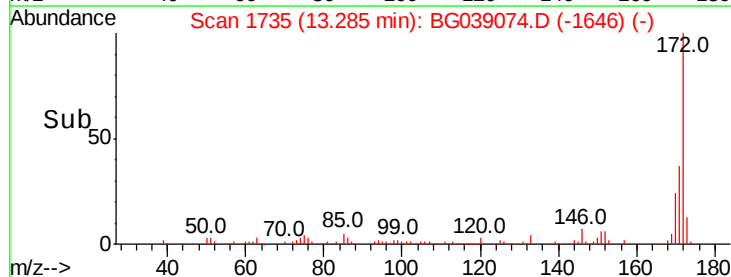


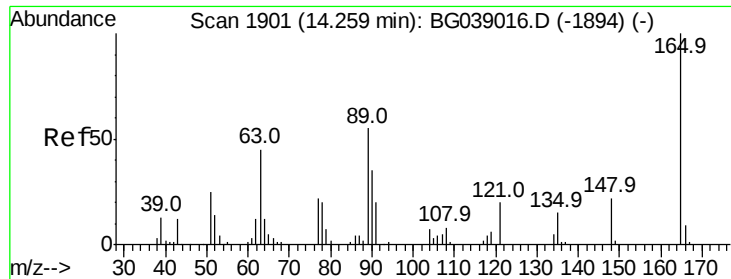
#45  
 2-Fluorobiphenyl  
 Concen: 91.183 ng  
 RT: 13.28 min Scan# 1735  
 Delta R.T. -0.01 min  
 Lab File: BG039074.D  
 Acq: 11 Jan 2019 5:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 29.4  | 44.0  |
| 170     | 24.4  | 20.1  | 30.1  |



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

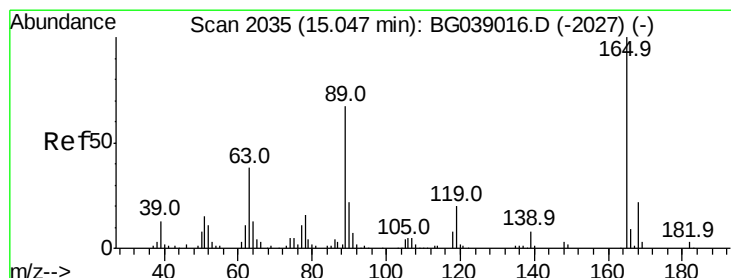
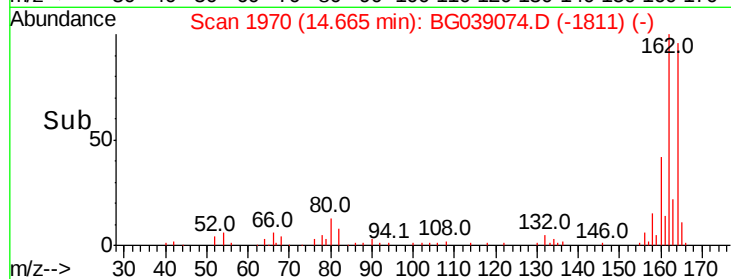
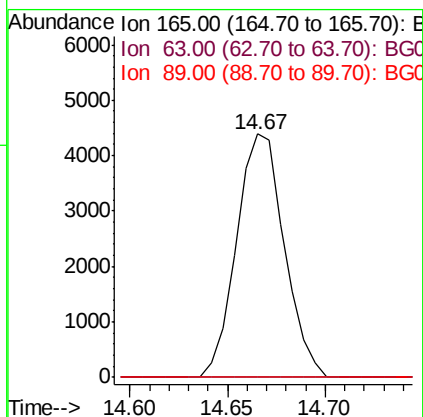
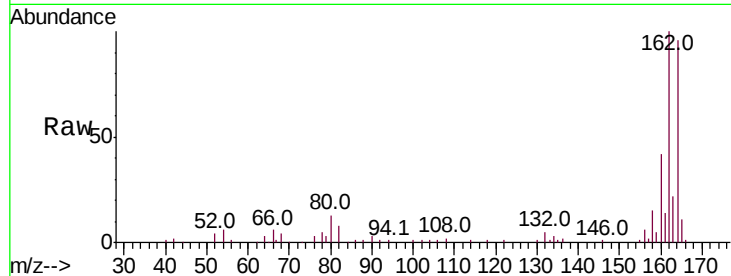




#51  
 2,6-Dinitrotoluene  
 Concen: 6.627 ng  
 RT: 14.67 min Scan# 1970  
 Delta R.T. 0.41 min  
 Lab File: BG039074.D  
 Acq: 11 Jan 2019 5:08

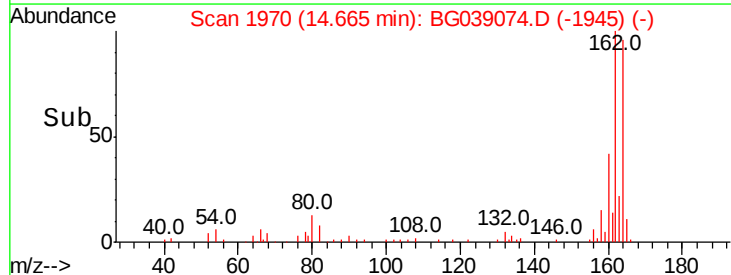
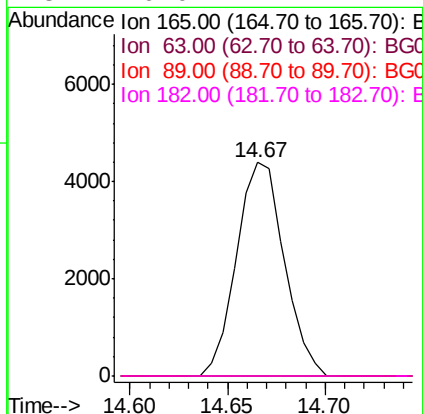
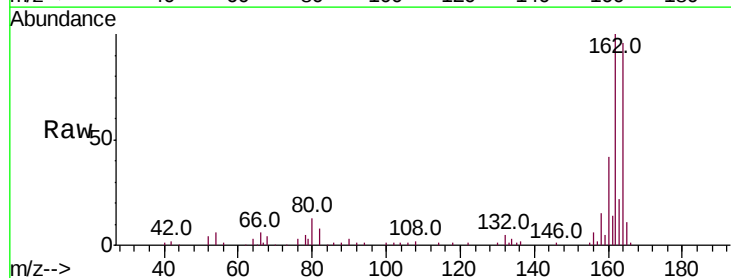
Instrument :  
 BNA\_G  
 ClientSampleId :

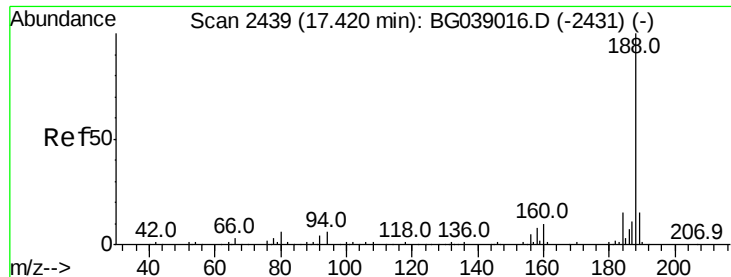
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.6  | 65.4# |
| 89      | 0.0   | 43.7  | 65.5# |



#57  
 2,4-Dinitrotoluene  
 Concen: 4.619 ng  
 RT: 14.67 min Scan# 1970  
 Delta R.T. -0.38 min  
 Lab File: BG039074.D  
 Acq: 11 Jan 2019 5:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.2  | 45.4# |
| 89      | 0.0   | 53.2  | 79.8# |
| 182     | 0.0   | 2.7   | 4.1#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

Instrument :

BNA\_G

ClientSampled :

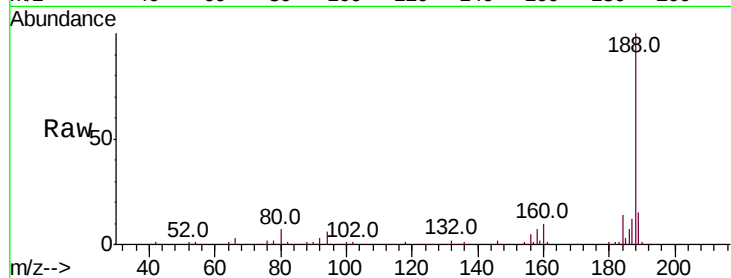
Tot Ion:188 Resp: 167195

Ion Ratio Lower Upper

188 100

94 6.4 5.0 7.4

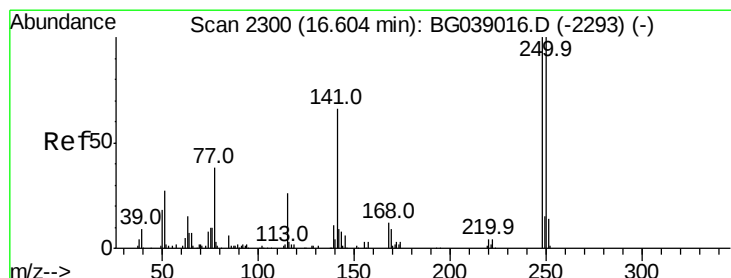
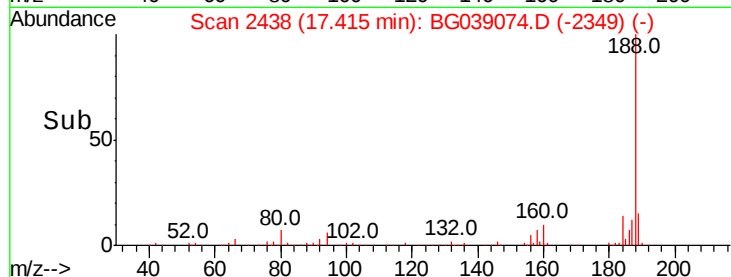
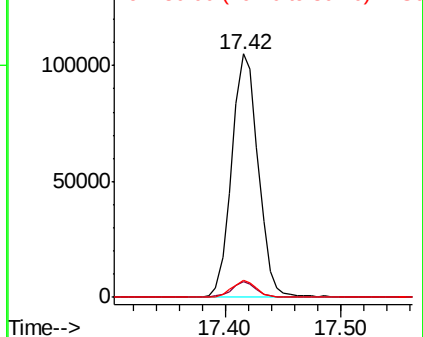
80 7.1 4.7 7.1#



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



#67

4-Bromophenyl-phenylether

Concen: 4.293 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.44 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

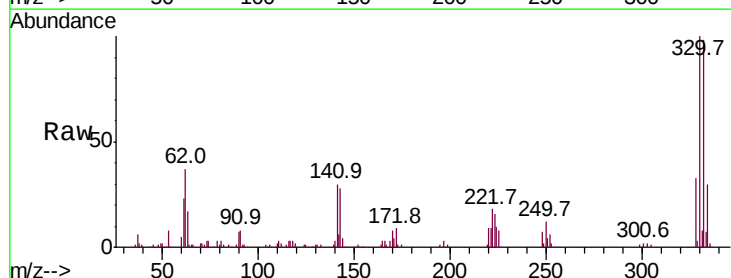
Tgt Ion:248 Resp: 9227

Ion Ratio Lower Upper

248 100

250 169.9 79.9 119.9#

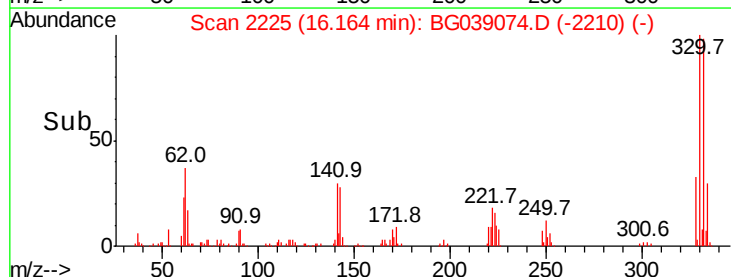
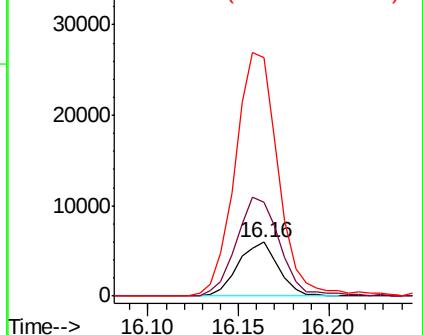
141 330.8 52.7 79.1#

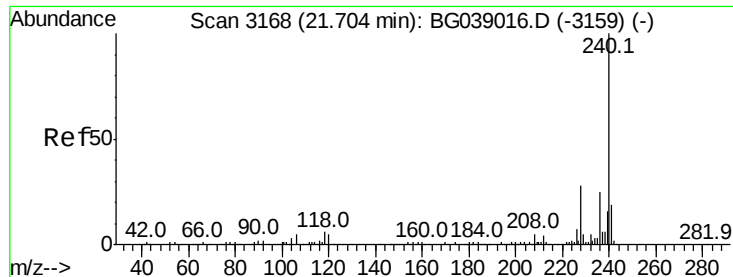


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.69 min Scan# 3166

Delta R.T. -0.01 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

Instrument :

BNA\_G

ClientSampled :

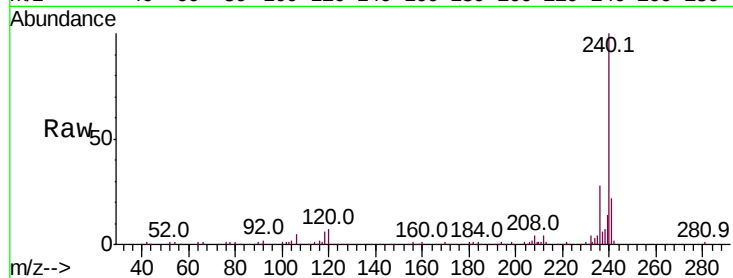
Tot Ion:240 Resp: 188975

Ion Ratio Lower Upper

240 100

120 6.7 4.3 6.5#

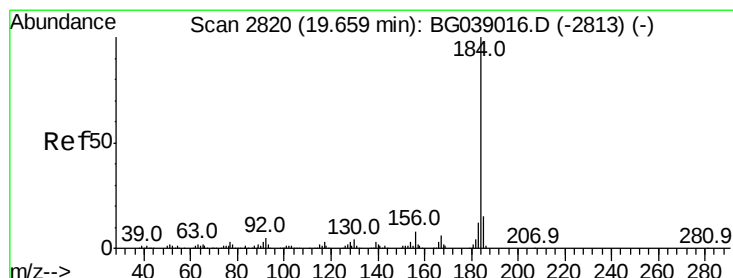
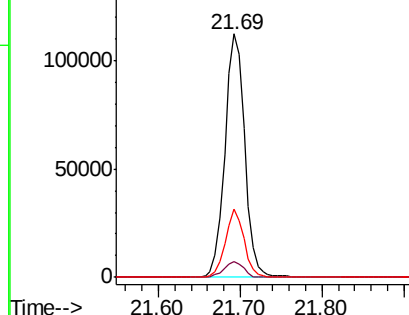
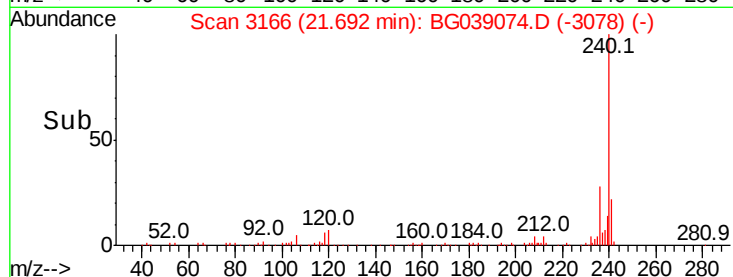
236 27.9 20.1 30.1



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: 2.414 ng

RT: 20.02 min Scan# 2881

Delta R.T. 0.36 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

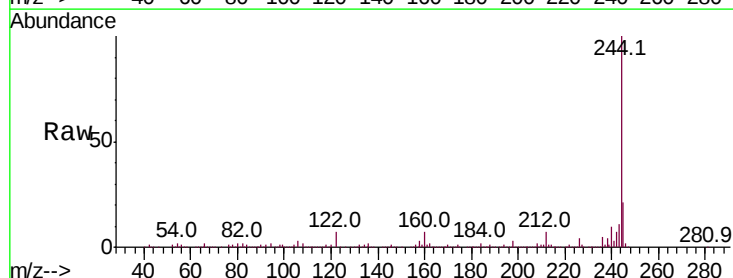
Tgt Ion:184 Resp: 13952

Ion Ratio Lower Upper

184 100

185 16.4 12.1 18.1

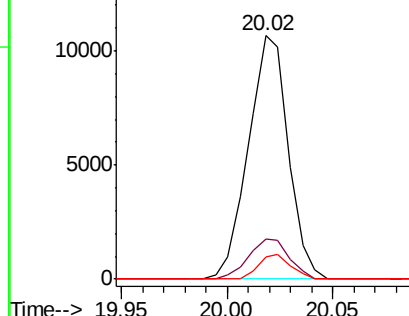
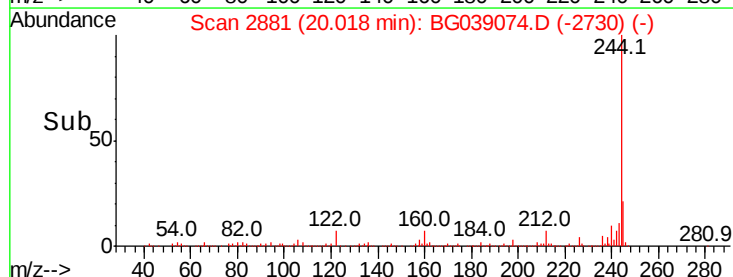
183 9.0 9.5 14.3#

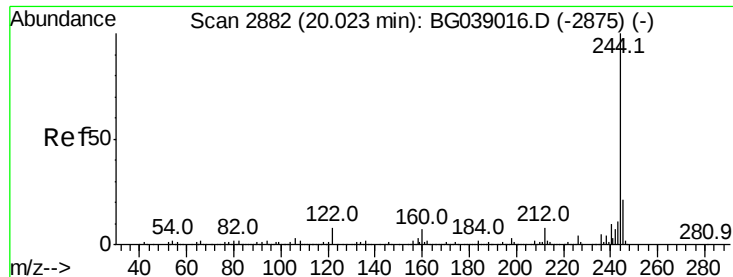


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 86.826 ng

RT: 20.02 min Scan# 2881

Delta R.T. -0.01 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

Instrument :

BNA\_G

ClientSampleId :

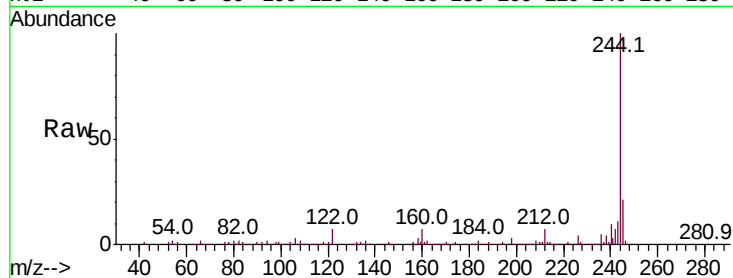
Tot Ion:244 Resp: 886972

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

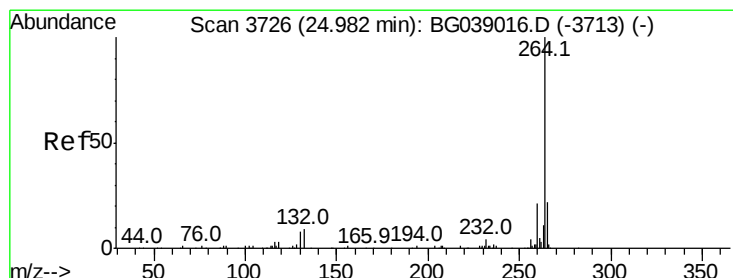
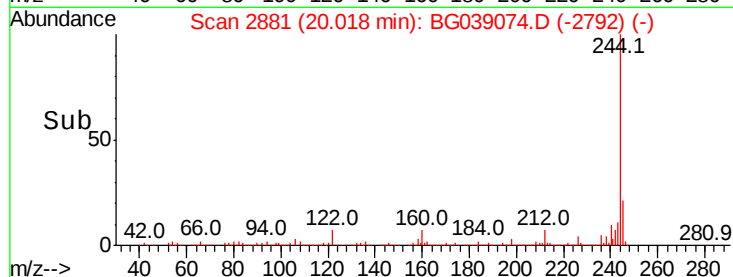
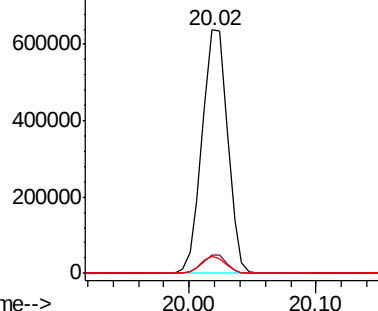
122 7.2 6.1 9.1



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: 24.97 min Scan# 3724

Delta R.T. -0.01 min

Lab File: BG039074.D

Acq: 11 Jan 2019 5:08

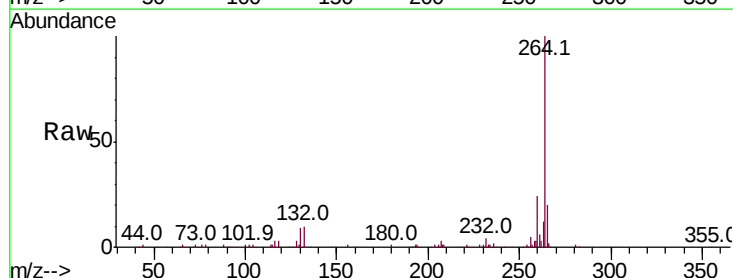
Tgt Ion:264 Resp: 196156

Ion Ratio Lower Upper

264 100

260 23.8 17.0 25.6

265 19.9 17.2 25.8



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

