

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060819\  
 Data File : BG041135.D  
 Acq On : 8 Jun 2019 16:08  
 Operator : HP/JU  
 Sample : K3156-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 09 23:01:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

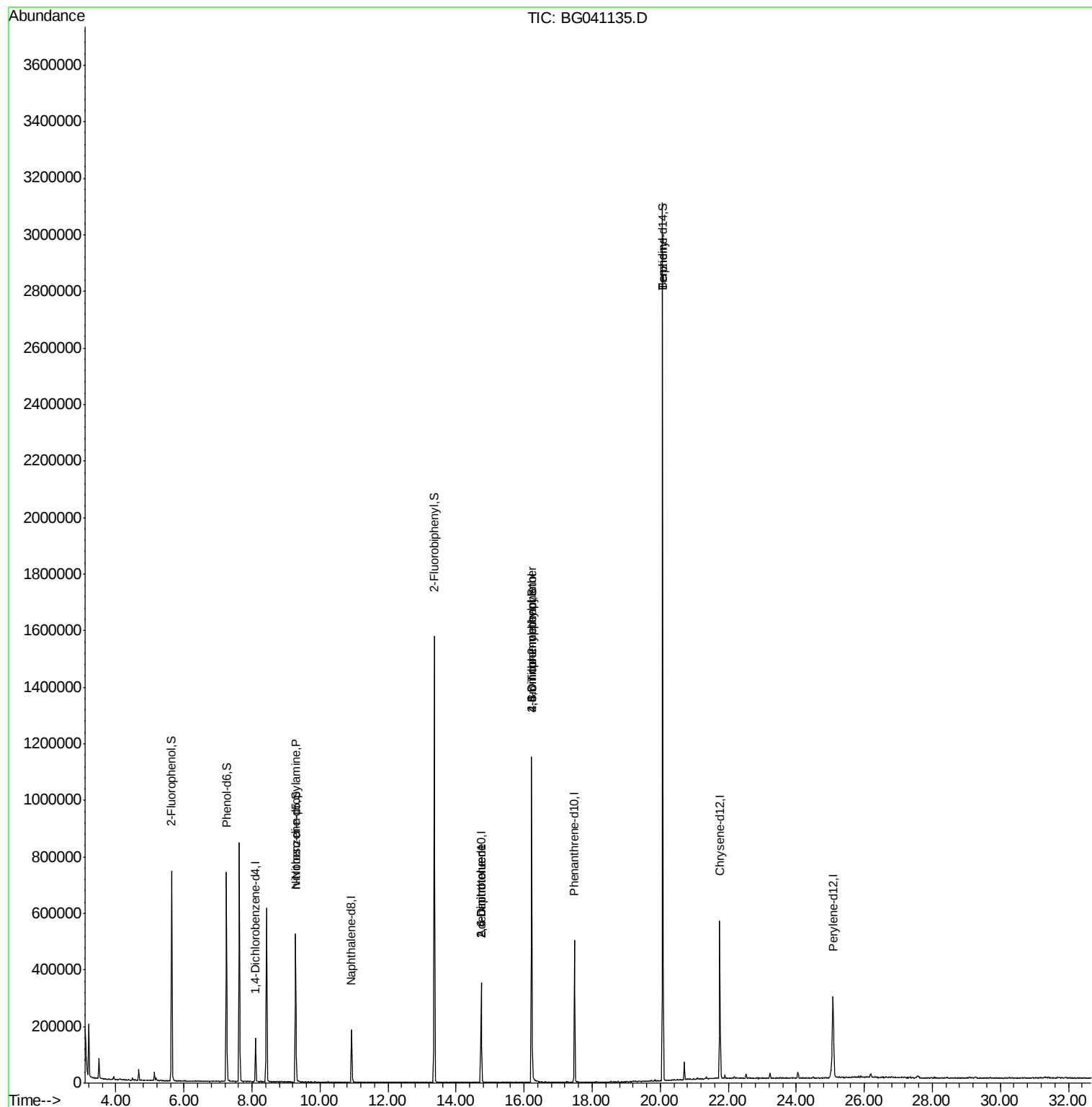
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.11  | 152  | 39934    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.93 | 136  | 157662   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 14.73 | 164  | 123309   | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.48 | 188  | 321739   | 20.00  | ng    | -0.03    |
| 76) Chrysene-d12               | 21.75 | 240  | 336986   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 25.08 | 264  | 349659   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 292403   | 132.03 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.25  | 99   | 386008   | 112.86 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 320731   | 90.31  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.22 | 330  | 218818   | 119.53 | ng    | -0.03    |
| 45) 2-Fluorobiphenyl           | 13.36 | 172  | 792011   | 92.50  | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.07 | 244  | 1459777  | 91.94  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.28  | 70   | 46187    | 17.548 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.73 | 165  | 16385    | 7.280  | ng    | # 20     |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 16385    | 5.154  | ng    | # 23     |
| 65) 4,6-Dinitro-2-methylphenol | 16.21 | 198  | 201      | 8.685  | ng    | # 19     |
| 67) 4-Bromophenyl-phenylether  | 16.22 | 248  | 16190    | 3.729  | ng    | # 1      |
| 77) Benzidine                  | 20.07 | 184  | 24752    | 3.079  | ng    | # 94     |

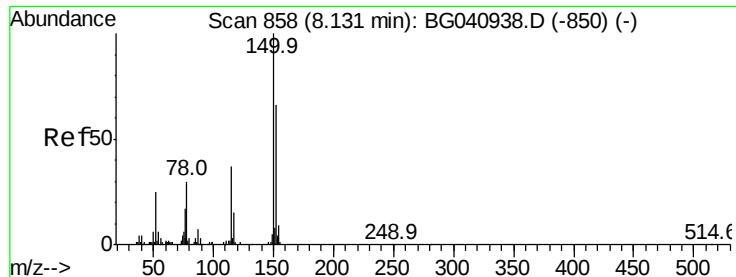
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060819\  
Data File : BG041135.D  
Acq On : 8 Jun 2019 16:08  
Operator : HP/JU  
Sample : K3156-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jun 09 23:01:23 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.11 min Scan# 854

Delta R.T. -0.03 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Instrument :

BNA\_G

ClientSampleId :

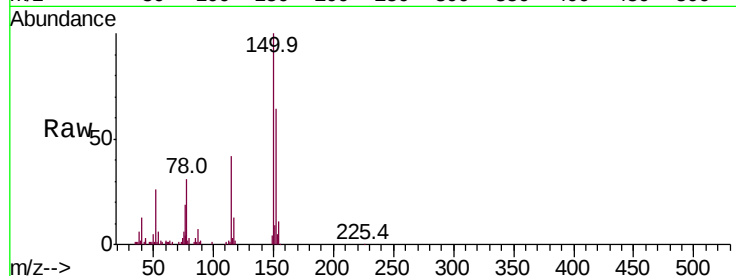
Tot Ion:152 Resp: 39934

Ion Ratio Lower Upper

152 100

150 157.2 120.6 180.8

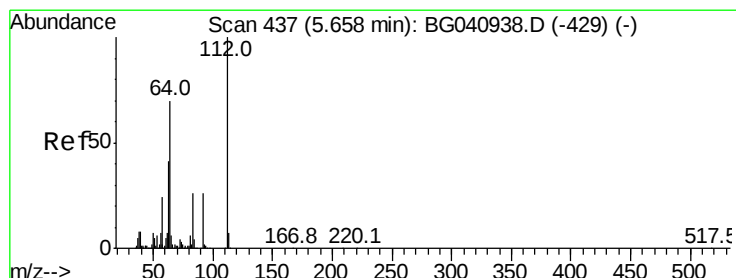
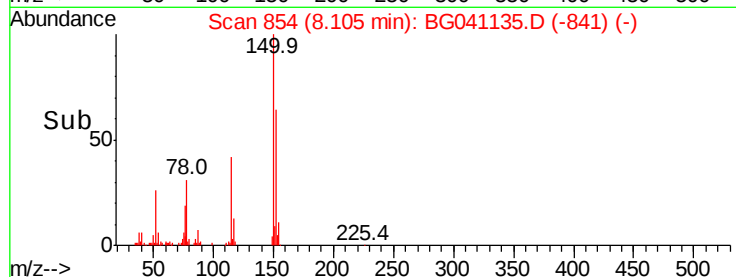
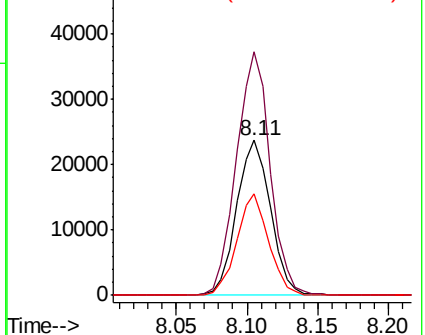
115 65.6 45.1 67.7



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: 132.034 ng

RT: 5.64 min Scan# 434

Delta R.T. -0.02 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

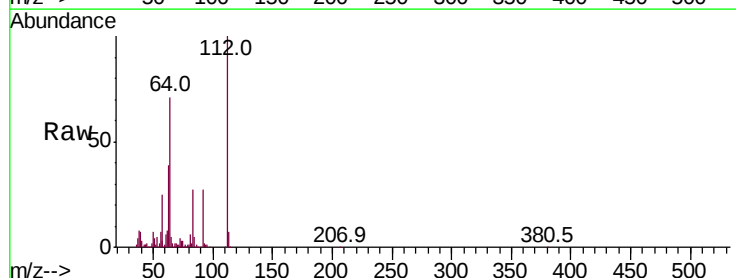
Tgt Ion:112 Resp: 292403

Ion Ratio Lower Upper

112 100

64 71.4 56.2 84.2

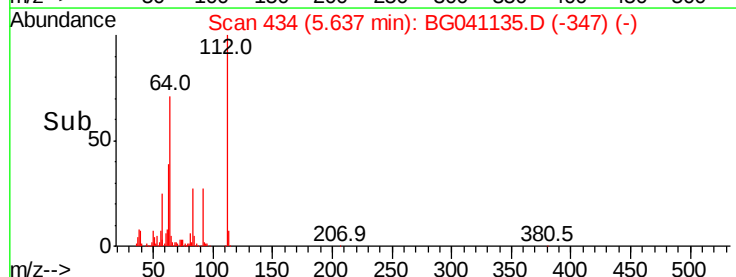
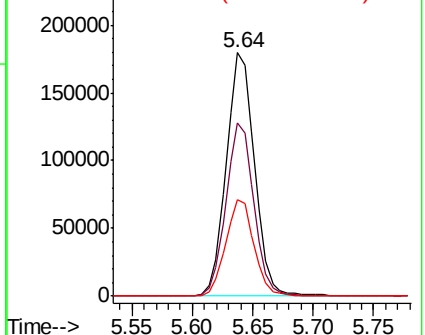
63 39.4 32.8 49.2

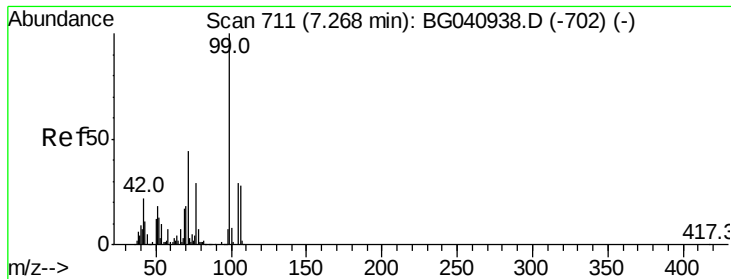


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 112.860 ng

RT: 7.25 min Scan# 708

Delta R.T. -0.02 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Instrument :

BNA\_G

ClientSampled :

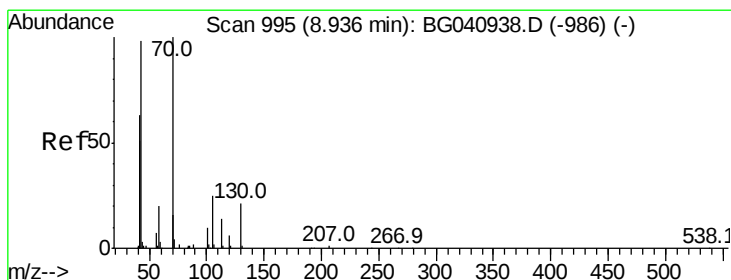
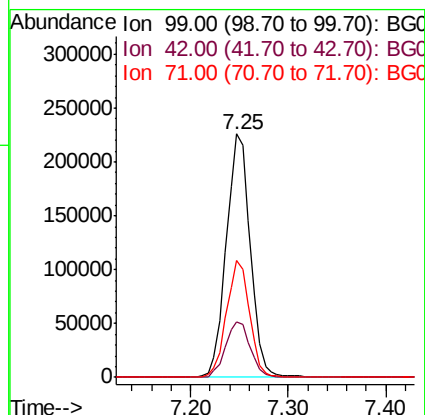
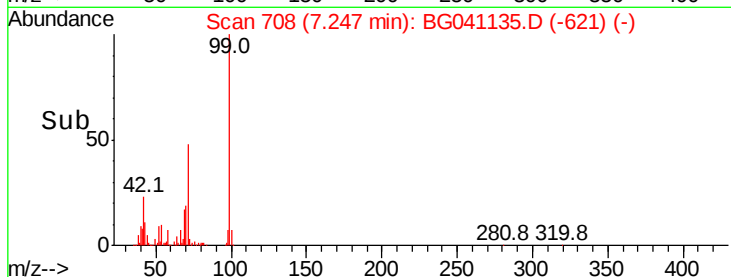
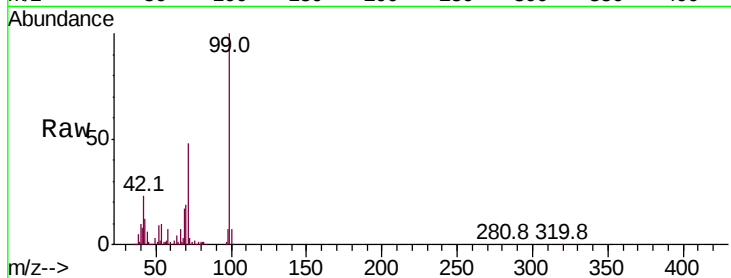
Tot Ion: 99 Resp: 386008

Ion Ratio Lower Upper

99 100

42 23.0 17.9 26.9

71 47.8 35.4 53.0



#19

n-Nitroso-di-n-propylamine

Concen: 17.548 ng

RT: 9.28 min Scan# 1054

Delta R.T. 0.34 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Tgt Ion: 70 Resp: 46187

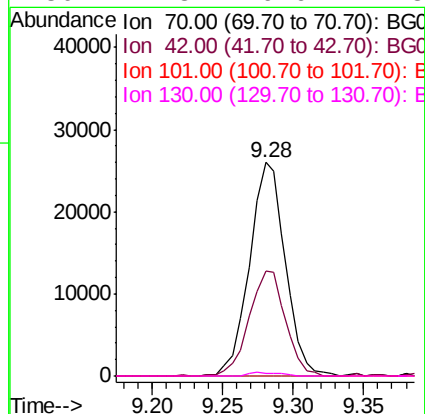
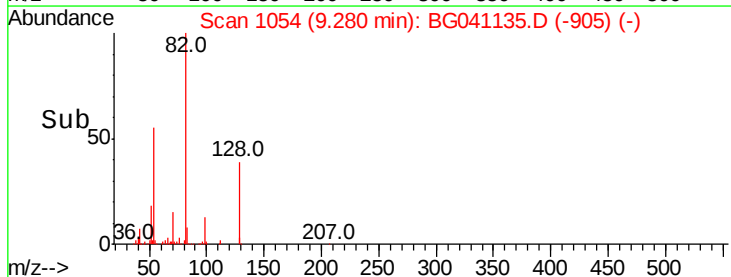
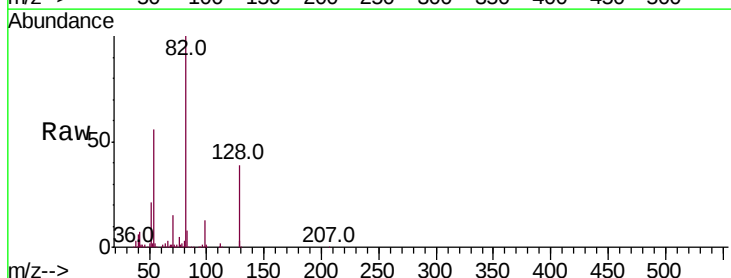
Ion Ratio Lower Upper

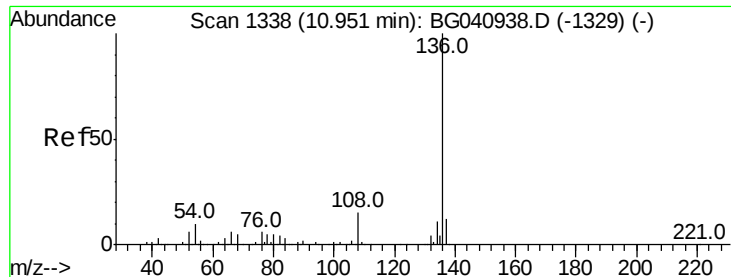
70 100

42 49.3 51.5 77.3#

101 0.0 8.1 12.1#

130 1.3 16.6 24.8#

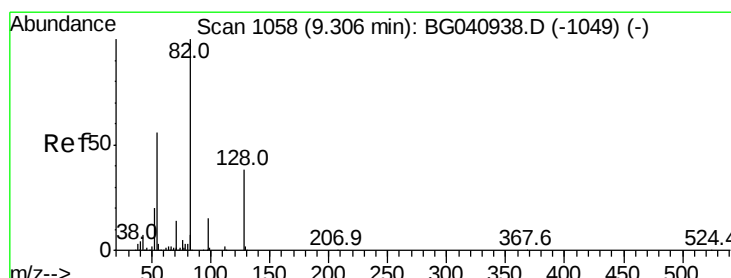
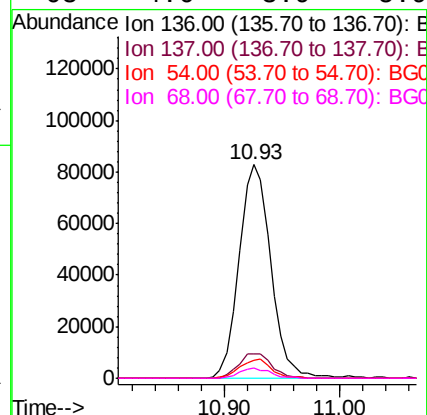
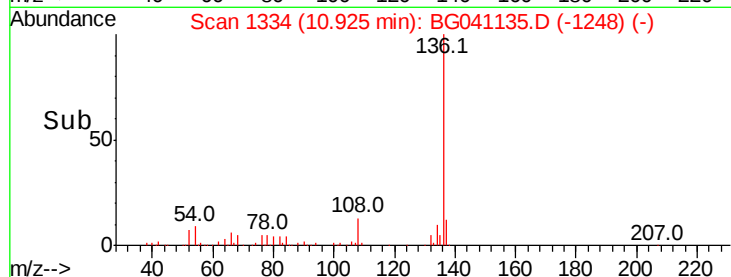
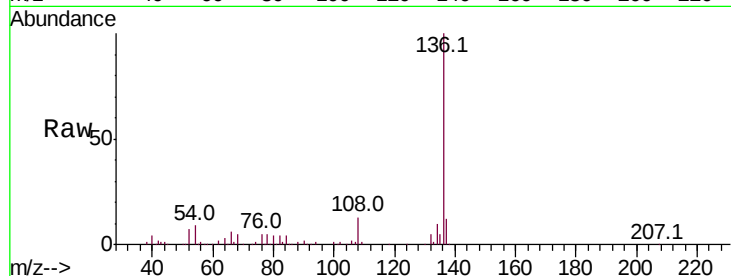




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1334  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

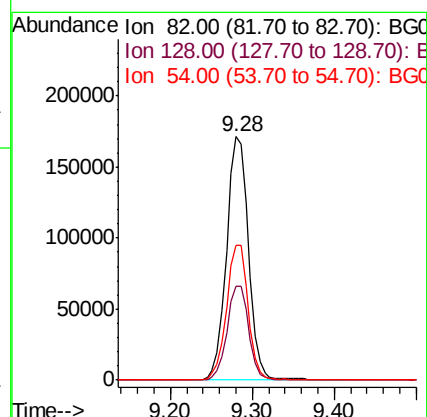
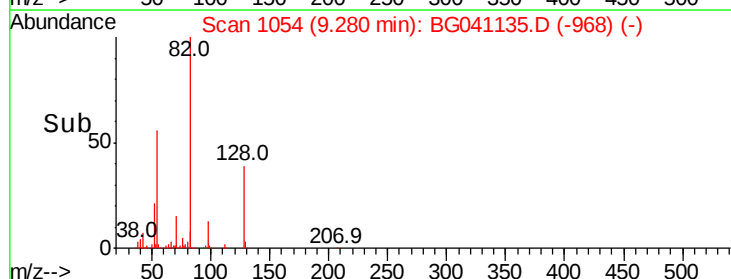
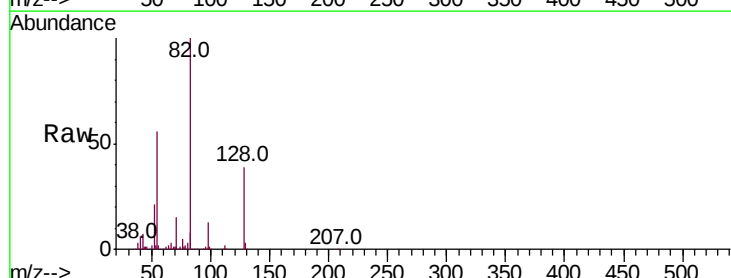
Instrument :  
BNA\_G  
ClientSampleId :

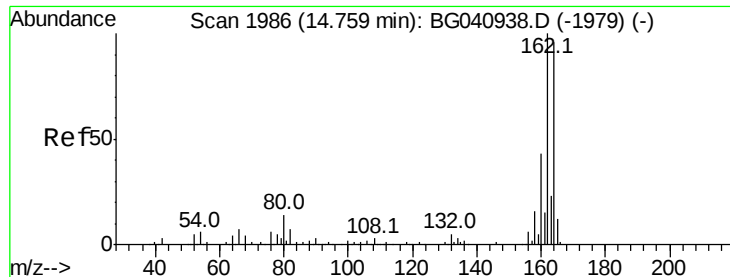
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 157662   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.6  | 9.5 14.3 |
| 54          | 8.5   | 7.6 11.4 |
| 68          | 4.6   | 3.9 5.9  |



#23  
Nitrobenzene-d5  
Concen: 90.310 ng  
RT: 9.28 min Scan# 1054  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 320731    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 38.6  | 30.5 45.7 |
| 54          | 55.5  | 44.6 66.8 |

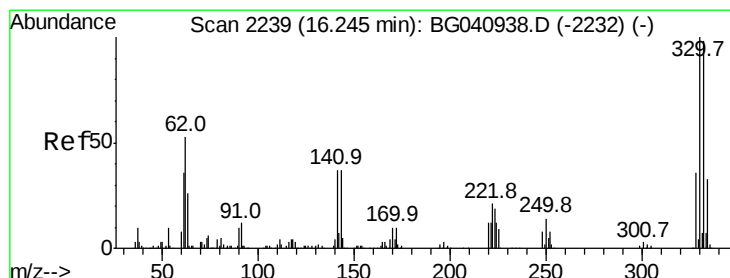
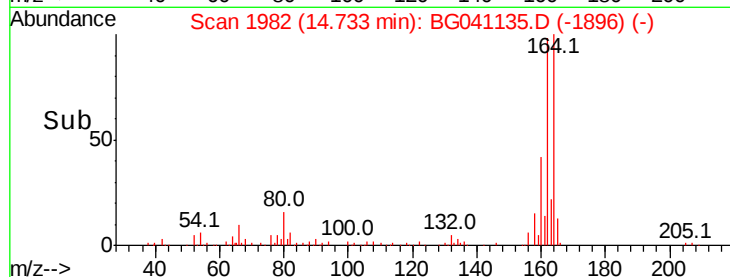
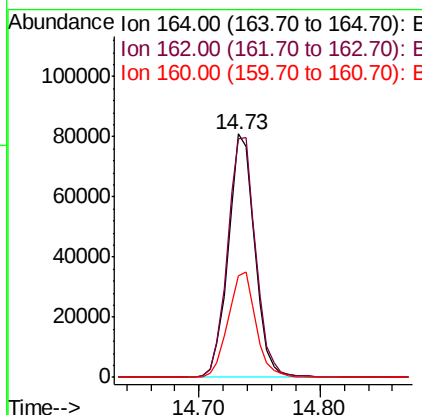
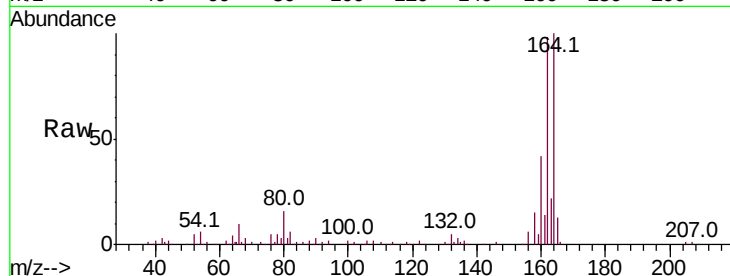




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.73 min Scan# 1982  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

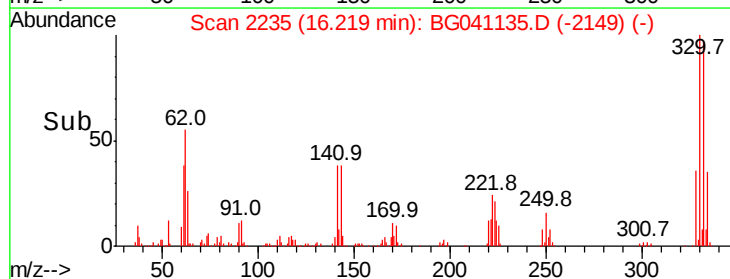
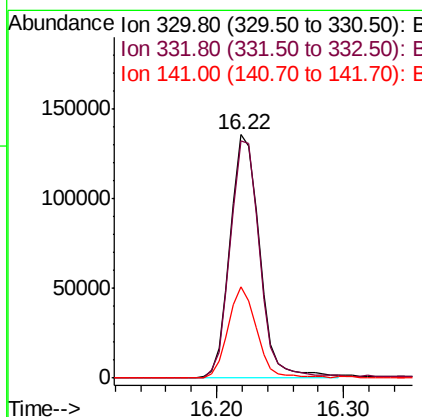
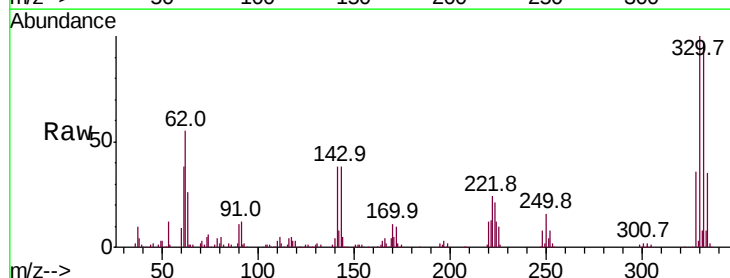
Instrument :  
BNA\_G  
ClientSampled :

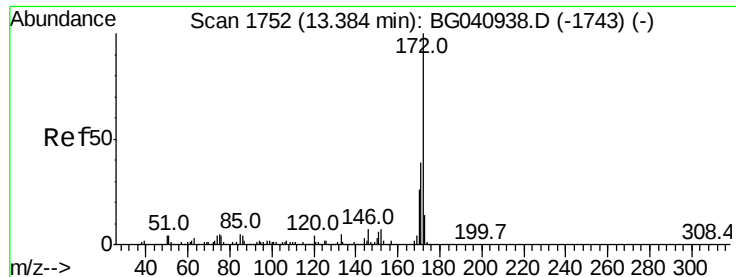
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.1  | 83.0  | 124.4 |
| 160     | 41.7  | 35.6  | 53.4  |



#42  
2,4,6-Tribromophenol  
Concen: 119.533 ng  
RT: 16.22 min Scan# 2235  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.6  | 78.5  | 117.7 |
| 141     | 36.2  | 28.7  | 43.1  |

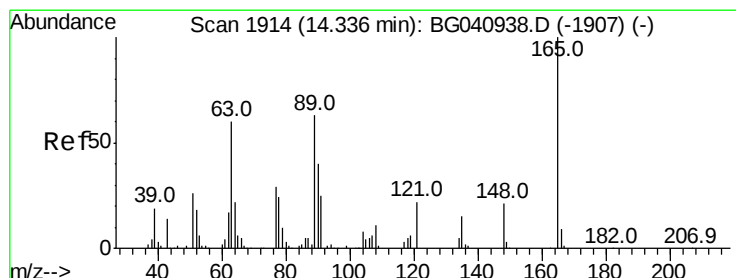
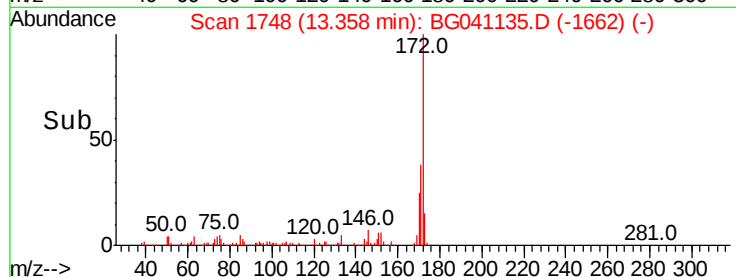
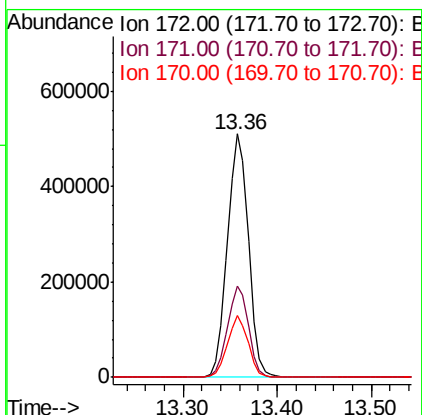
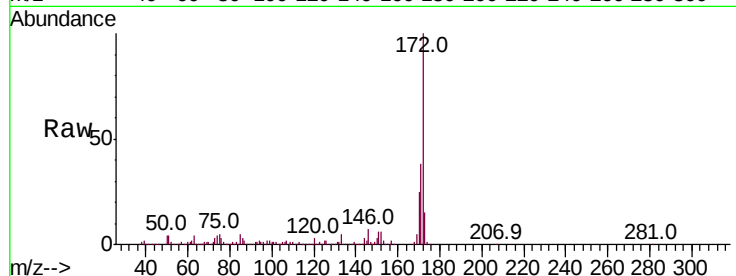




#45  
2-Fluorobiphenyl  
Concen: 92.498 ng  
RT: 13.36 min Scan# 1748  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

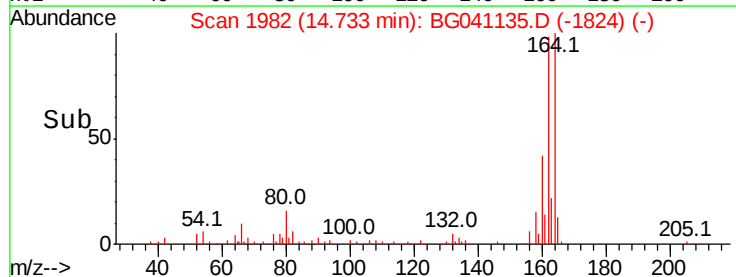
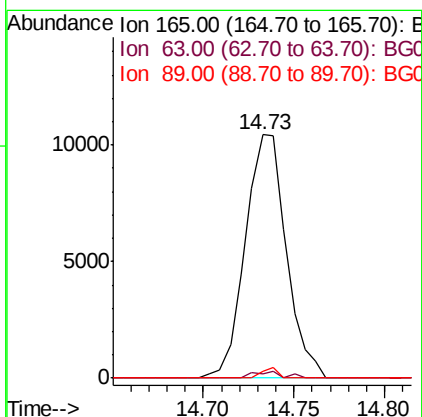
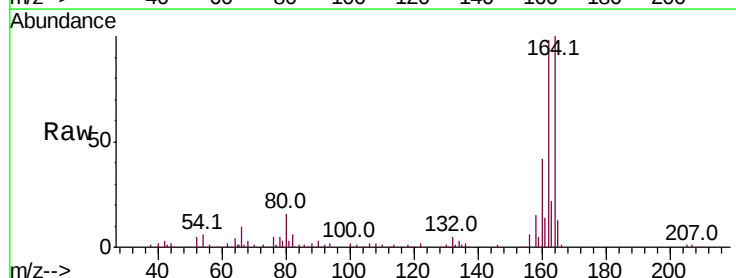
Instrument :  
BNA\_G  
ClientSampleId :

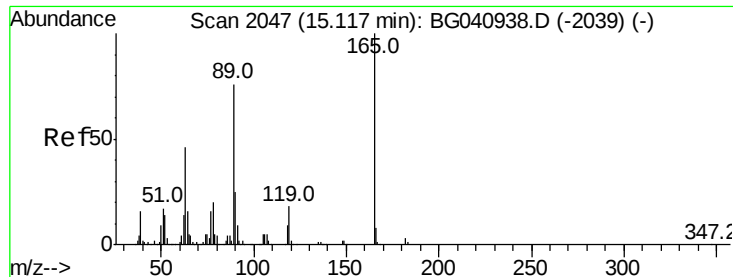
Tot Ion:172 Resp: 792011  
Ion Ratio Lower Upper  
172 100  
171 37.6 31.1 46.7  
170 25.5 20.5 30.7



#51  
2,6-Dinitrotoluene  
Concen: 7.280 ng  
RT: 14.73 min Scan# 1982  
Delta R.T. 0.40 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

Tgt Ion:165 Resp: 16385  
Ion Ratio Lower Upper  
165 100  
63 1.6 53.6 80.4#  
89 2.6 50.4 75.6#

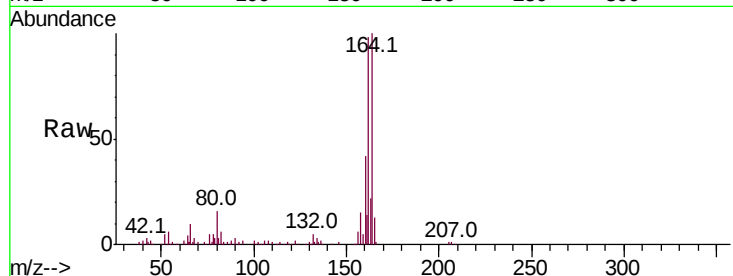




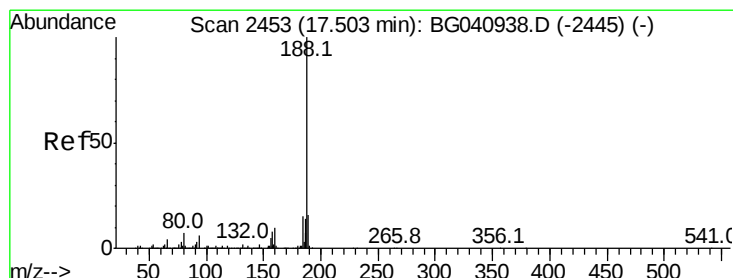
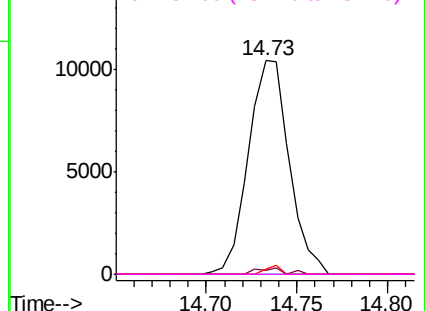
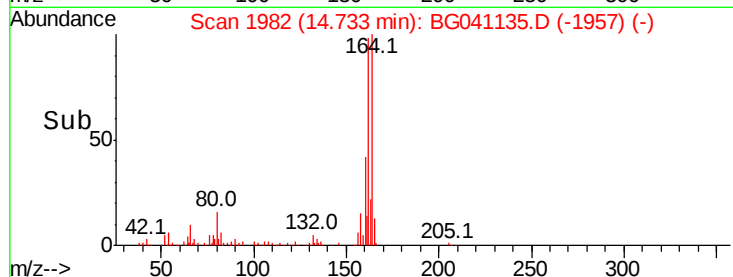
#57  
2,4-Dinitrotoluene  
Concen: 5.154 ng  
RT: 14.73 min Scan# 1982  
Delta R.T. -0.38 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 16385  
Ion Ratio Lower Upper  
165 100  
63 1.6 37.3 55.9#  
89 2.6 61.0 91.6#  
182 0.0 2.2 3.2#

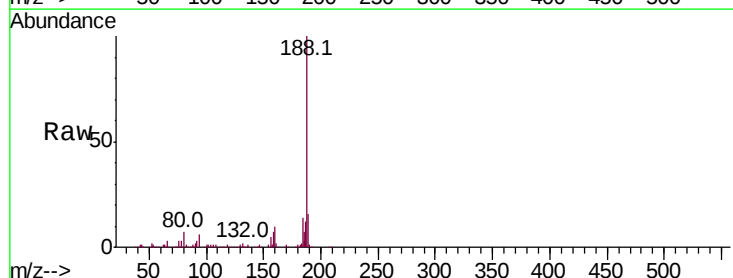


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

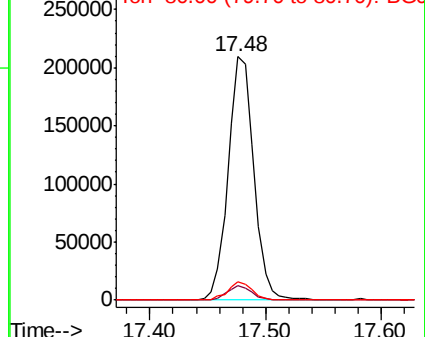
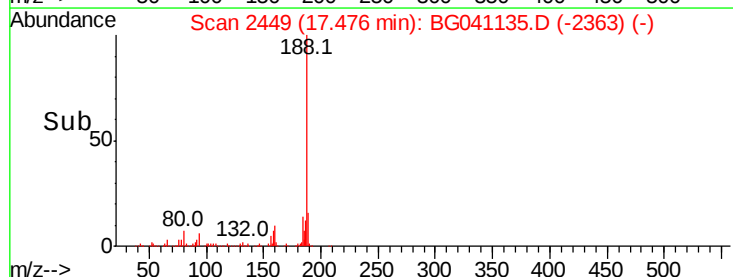


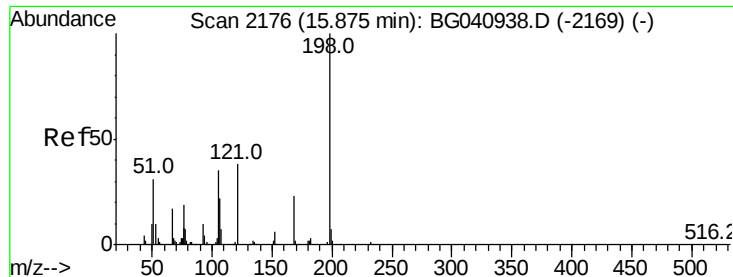
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.48 min Scan# 2449  
Delta R.T. -0.03 min  
Lab File: BG041135.D  
Acq: 8 Jun 2019 16:08

Tgt Ion:188 Resp: 321739  
Ion Ratio Lower Upper  
188 100  
94 5.9 4.7 7.1  
80 7.4 5.8 8.8



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





#65

4,6-Dinitro-2-methylphenol

Concen: 8.685 ng

RT: 16.21 min Scan# 2234

Delta R.T. 0.34 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Instrument :

BNA\_G

ClientSampleId :

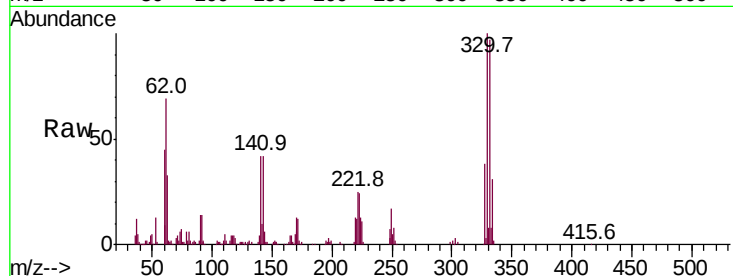
Tot Ion:198 Resp: 201

Ion Ratio Lower Upper

198 100

51 80.7 21.6 61.6#

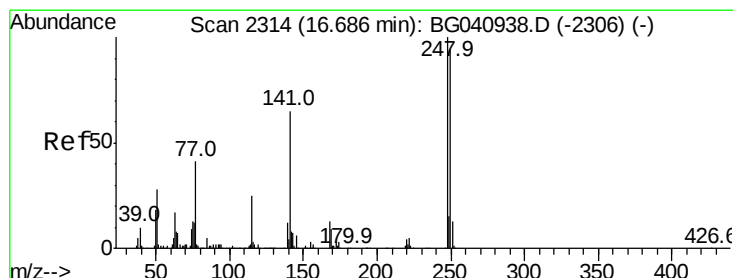
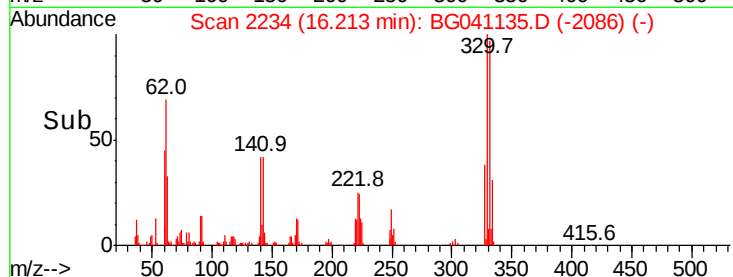
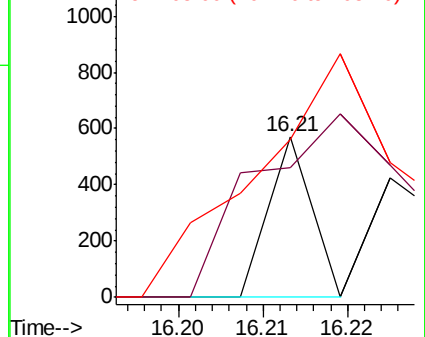
105 98.6 17.5 57.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 3.729 ng

RT: 16.22 min Scan# 2235

Delta R.T. -0.47 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

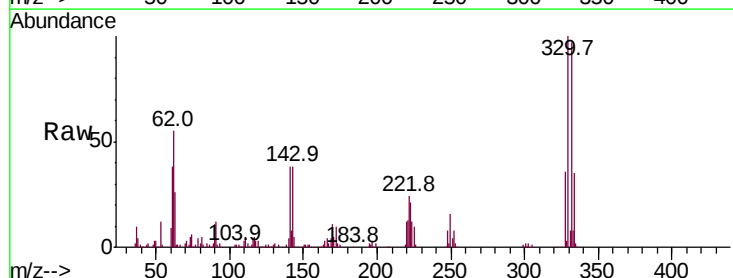
Tgt Ion:248 Resp: 16190

Ion Ratio Lower Upper

248 100

250 208.1 75.0 112.4#

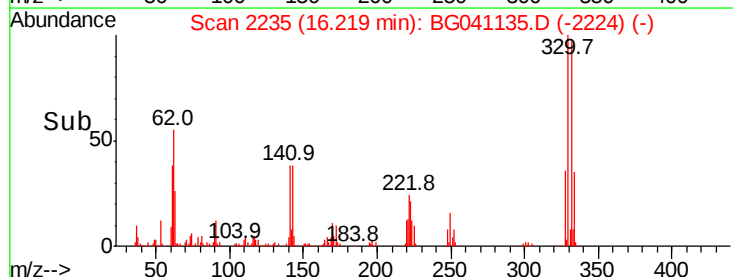
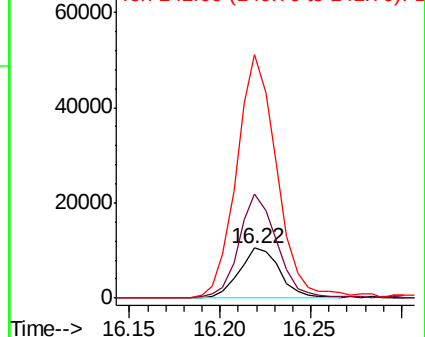
141 484.9 52.4 78.6#

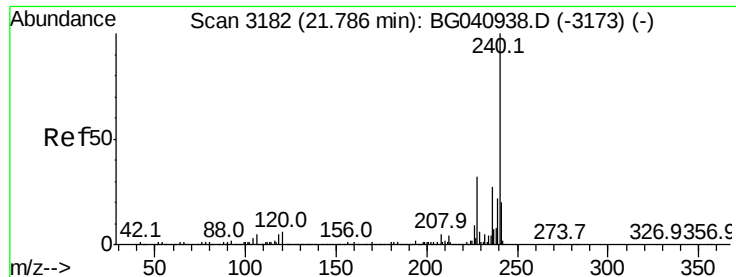


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.75 min Scan# 3177

Delta R.T. -0.03 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Instrument :

BNA\_G

ClientSampleId :

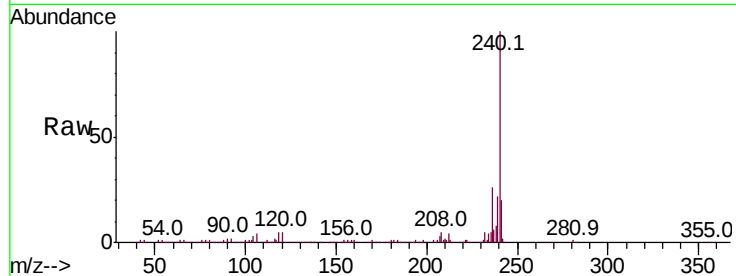
Tot Ion:240 Resp: 336986

Ion Ratio Lower Upper

240 100

120 5.1 4.5 6.7

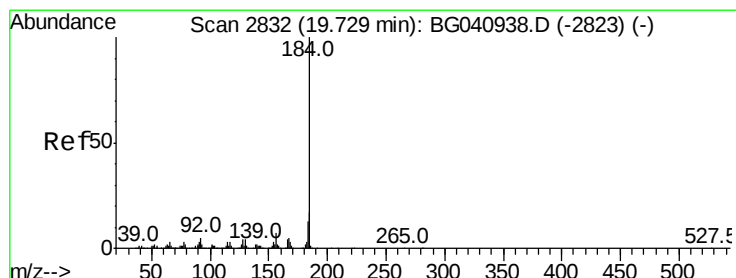
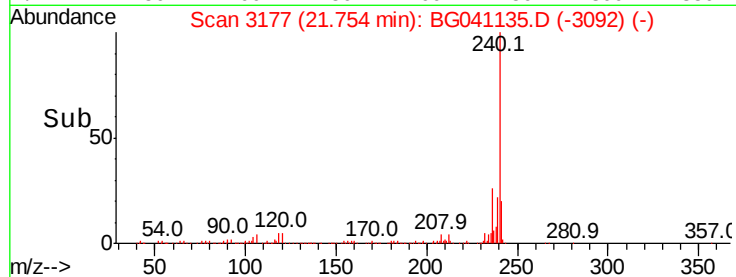
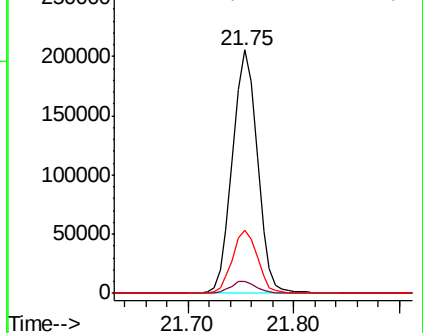
236 26.0 21.3 31.9



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: 3.079 ng

RT: 20.07 min Scan# 2891

Delta R.T. 0.34 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

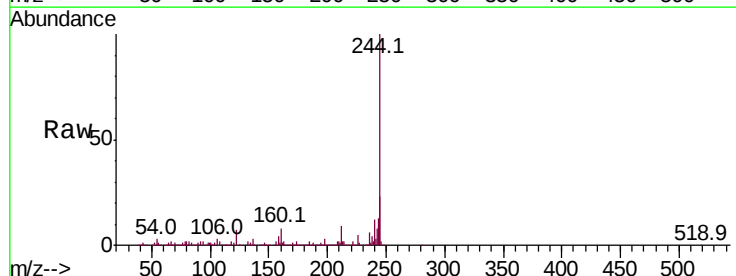
Tgt Ion:184 Resp: 24752

Ion Ratio Lower Upper

184 100

185 14.4 13.3 19.9

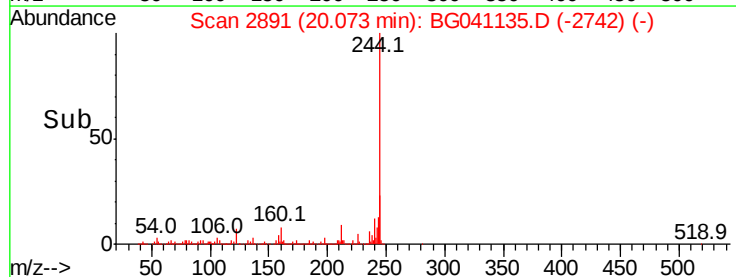
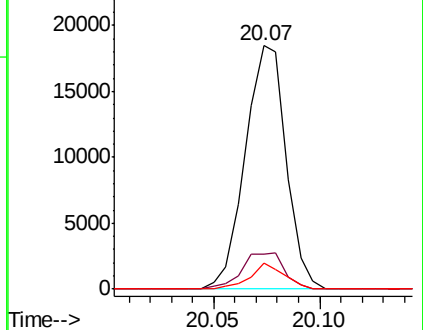
183 10.6 10.7 16.1#

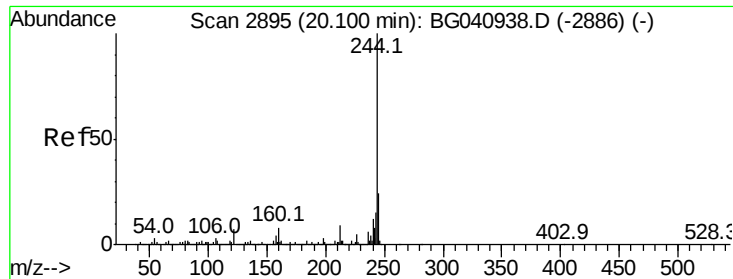


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 91.937 ng

RT: 20.07 min Scan# 2891

Delta R.T. -0.03 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

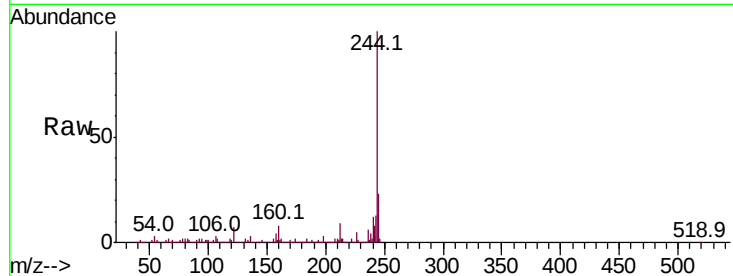
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1459777

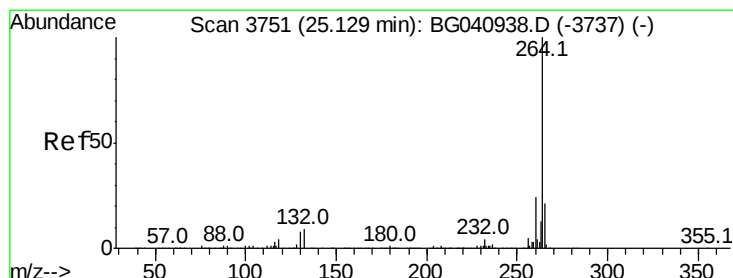
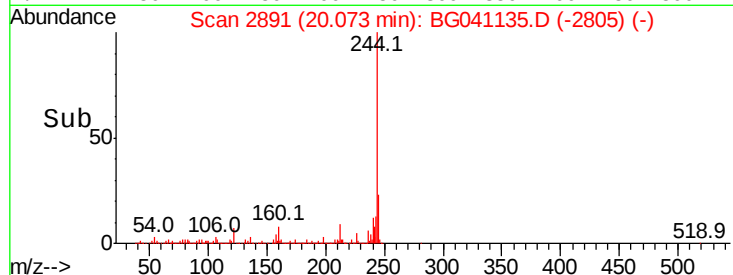
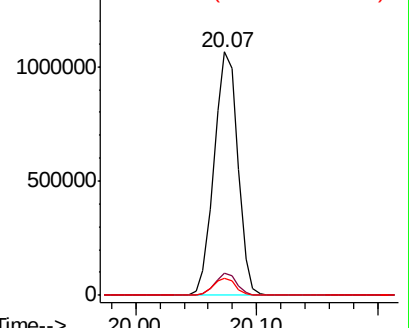
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.0   | 7.0   | 10.4  |
| 122 | 7.3   | 5.4   | 8.0   |



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: 25.08 min Scan# 3743

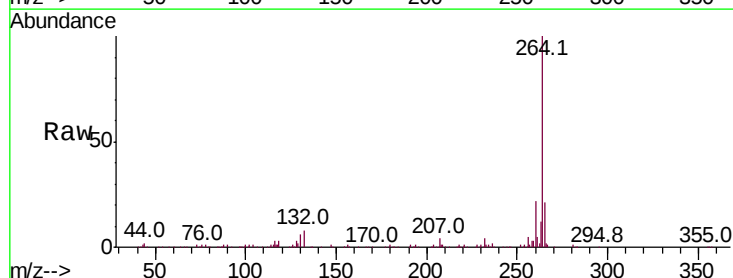
Delta R.T. -0.05 min

Lab File: BG041135.D

Acq: 8 Jun 2019 16:08

Tgt Ion:264 Resp: 349659

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.1  | 19.0  | 28.4  |
| 265 | 21.3  | 17.0  | 25.4  |



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

