

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
 Data File : BG032735.D  
 Acq On : 16 Feb 2018 5:34  
 Operator : SJ/JU  
 Sample : J1402-04  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 07:08:43 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 12 18:08:01 2018  
 Response via : Initial Calibration

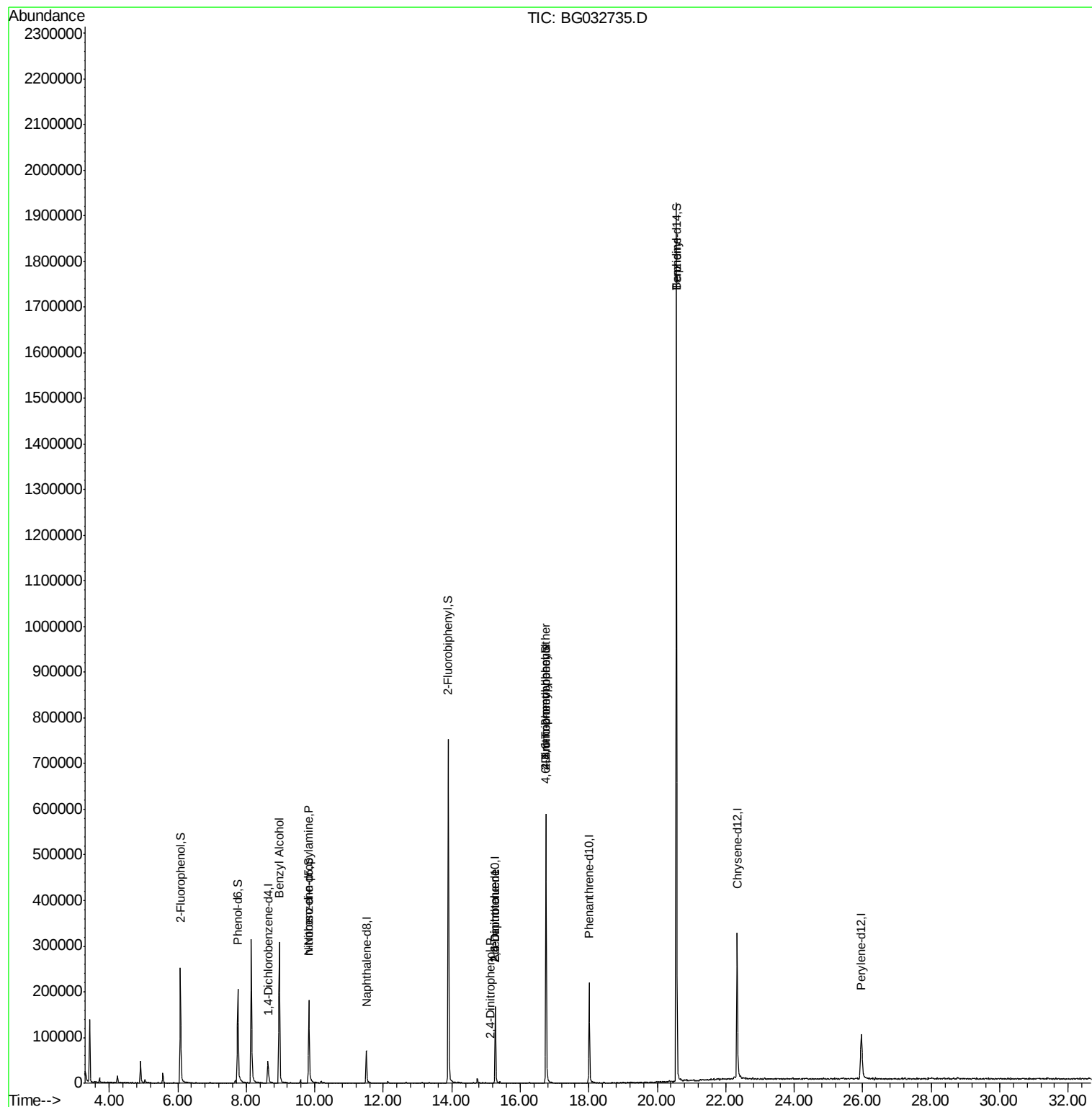
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.63  | 152  | 20586    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 11.51 | 136  | 79343    | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10           | 15.27 | 164  | 63470    | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10           | 18.01 | 188  | 175606   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12               | 22.33 | 240  | 253968   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 25.96 | 264  | 120966   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.08  | 112  | 136660   | 133.19 | ng    | -0.03    |
| 7) Phenol-d6                   | 7.75  | 99   | 138144   | 98.46  | ng    | -0.04    |
| 23) Nitrobenzene-d5            | 9.83  | 82   | 126539   | 101.36 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 16.75 | 330  | 153830   | 157.40 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 13.90 | 172  | 453818   | 89.41  | ng    | -0.04    |
| 78) Terphenyl-d14              | 20.56 | 244  | 1080636  | 96.98  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.96  | 79   | 2579     | 2.45   | ng    | # 64     |
| 19) n-Nitroso-di-n-propylamine | 9.83  | 70   | 19150    | 20.30  | ng    | # 71     |
| 50) 2,6-Dinitrotoluene         | 15.27 | 165  | 8710     | 7.71   | ng    | # 21     |
| 53) 2,4-Dinitrophenol          | 15.13 | 184  | 56       | 11.54  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.27 | 165  | 8710     | 5.59   | ng    | # 19     |
| 64) 4,6-Dinitro-2-methylphenol | 16.74 | 198  | 233      | 5.19   | ng    | # 33     |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 11997    | 4.77   | ng    | # 1      |
| 76) Benzydine                  | 20.56 | 184  | 15098    | 2.52   | ng    | # 89     |

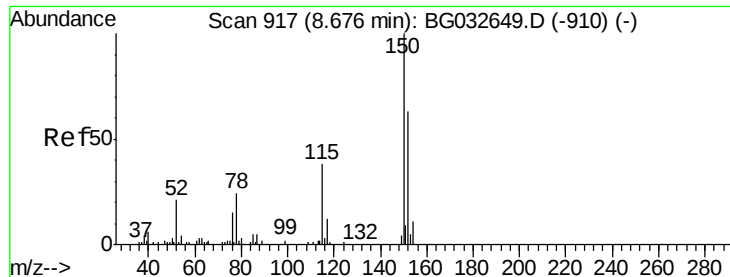
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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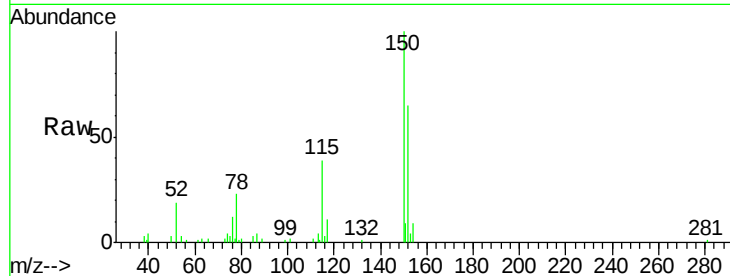


#1

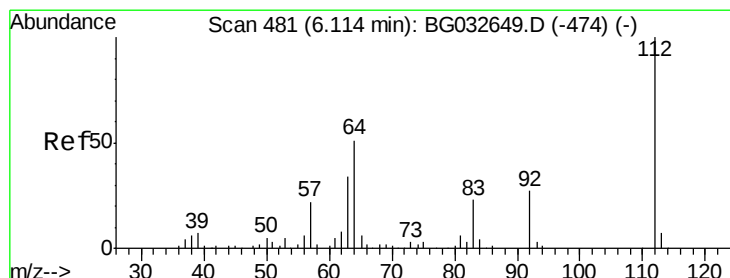
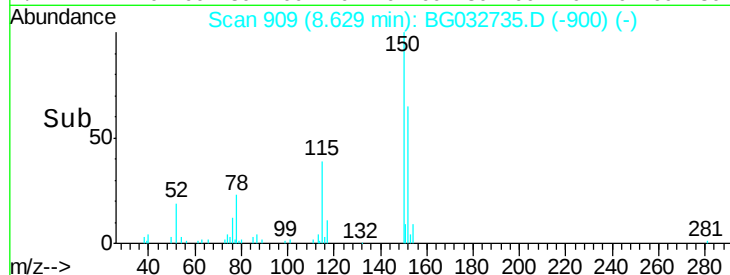
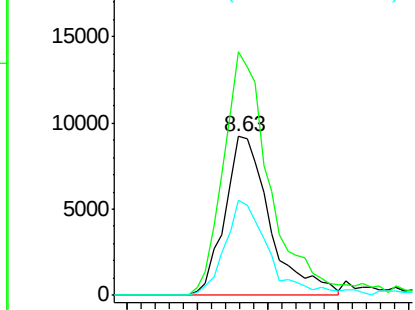
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.63 min Scan# 909  
Delta R.T. -0.05 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 20586  
Ion Ratio Lower Upper  
152 100  
150 153.3 126.6 189.8  
115 59.5 53.0 79.4



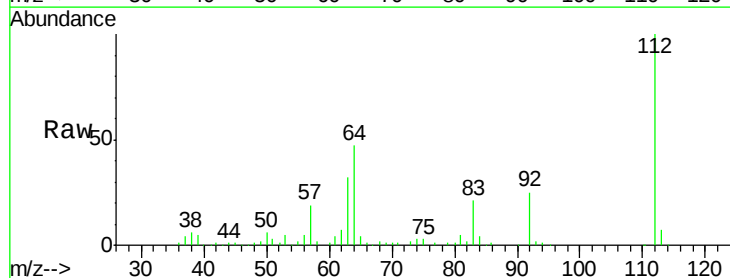
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



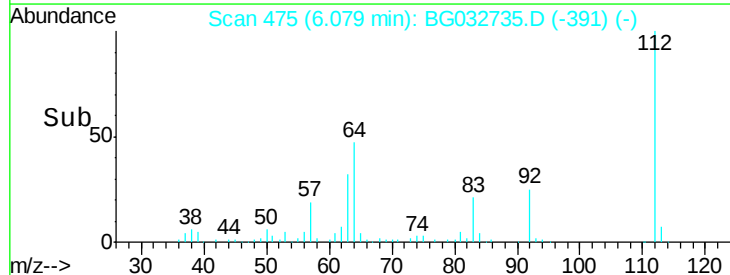
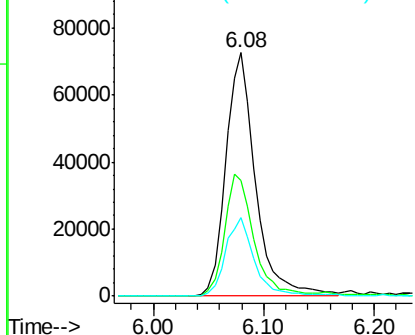
#5

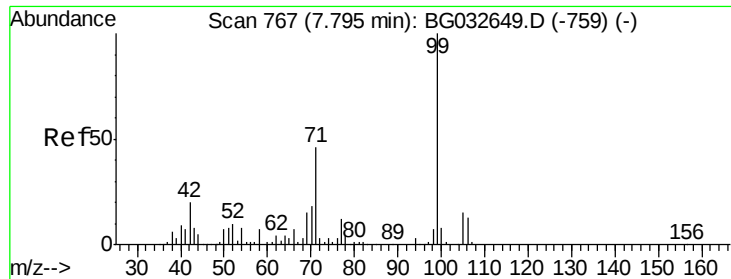
2-Fluorophenol  
Concen: 133.19 ng  
RT: 6.08 min Scan# 475  
Delta R.T. -0.03 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

Tgt Ion:112 Resp: 136660  
Ion Ratio Lower Upper  
112 100  
64 47.3 56.3 84.5#  
63 32.4 30.1 45.1



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: 98.46 ng

RT: 7.75 min Scan# 760

Delta R.T. -0.04 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

Instrument :

BNA\_G

ClientSampleId :

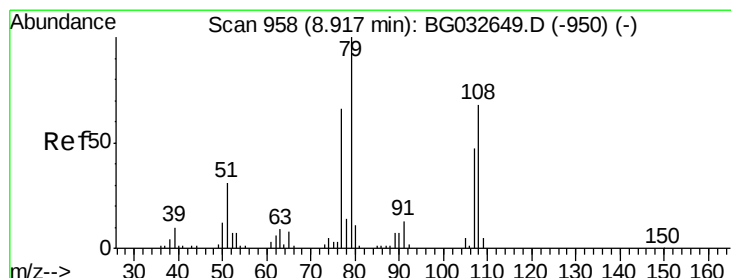
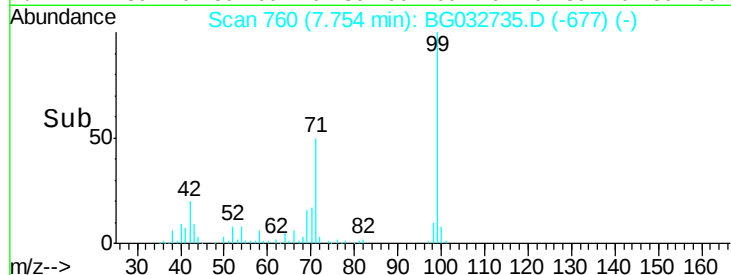
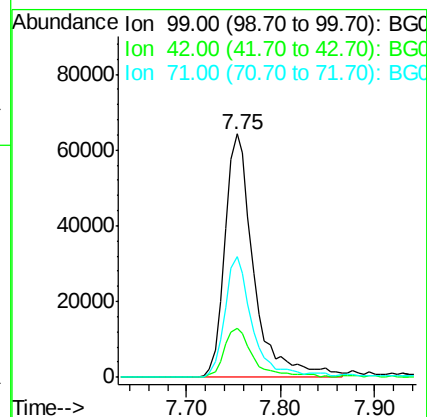
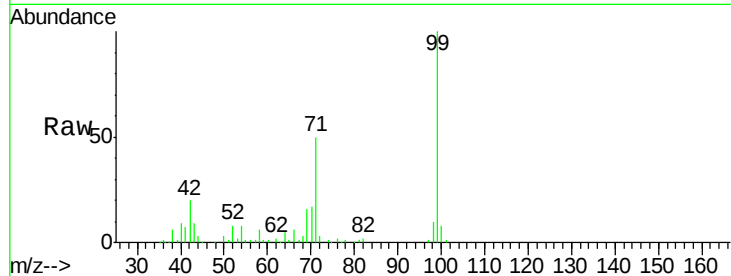
Tot Ion: 99 Resp: 138144

Ion Ratio Lower Upper

99 100

42 20.1 14.1 21.1

71 49.8 26.1 39.1#



#15

Benzyl Alcohol

Concen: 2.45 ng

RT: 8.96 min Scan# 965

Delta R.T. 0.04 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

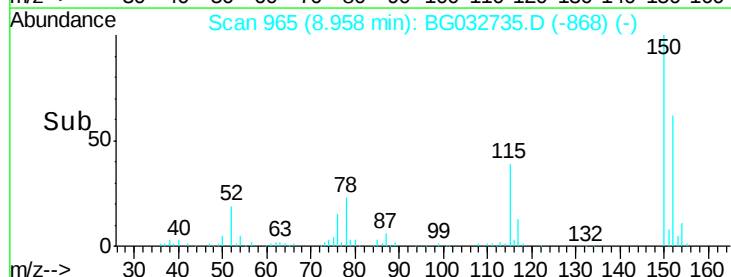
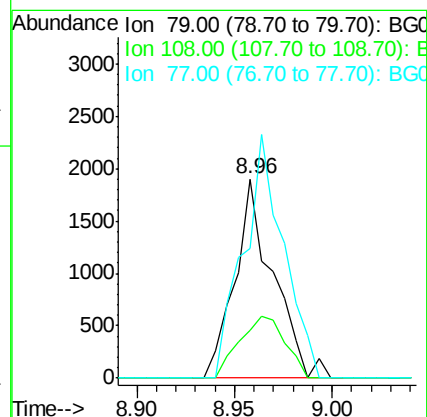
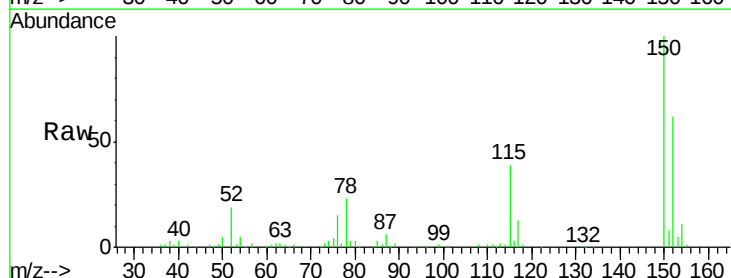
Tgt Ion: 79 Resp: 2579

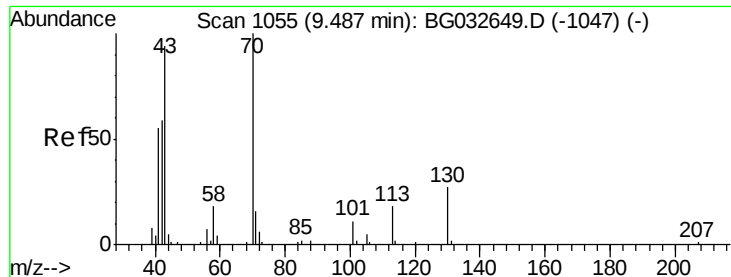
Ion Ratio Lower Upper

79 100

108 23.9 57.2 85.8#

77 65.2 46.1 69.1





#19

n-Nitroso-di-n-propylamine

Concen: 20.30 ng

RT: 9.83 min Scan# 1113

Delta R.T. 0.34 min

Lab File: BG032735.D

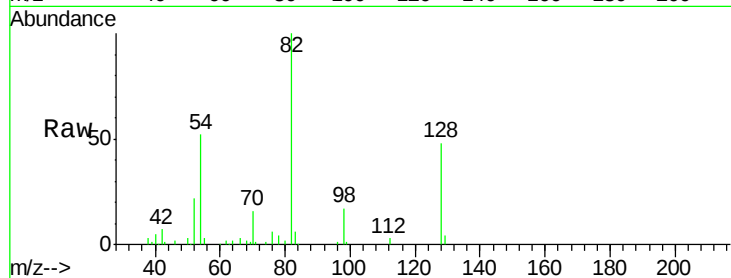
Acq: 16 Feb 2018 5:34

Instrument :

BNA\_G

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 70    | Resp: | 19150 |
| Ion Ratio | Lower | Upper |       |
| 70        | 100   |       |       |
| 42        | 41.6  | 49.1  | 73.7# |
| 101       | 0.0   | 8.5   | 12.7# |
| 130       | 0.0   | 13.4  | 20.0# |

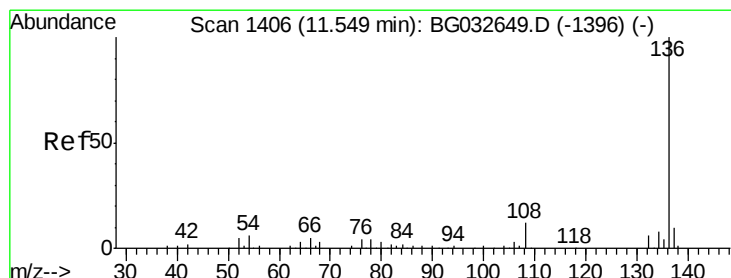
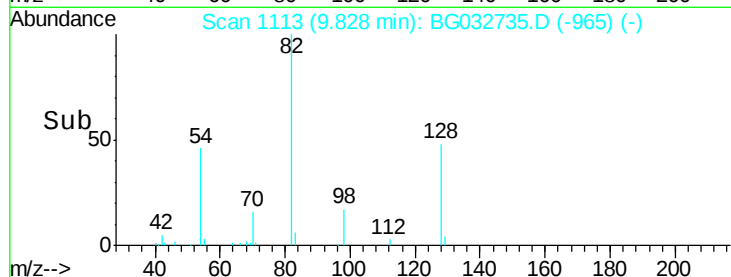
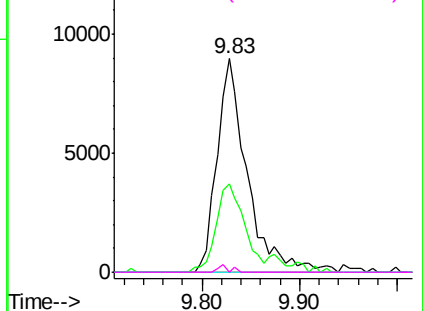


Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

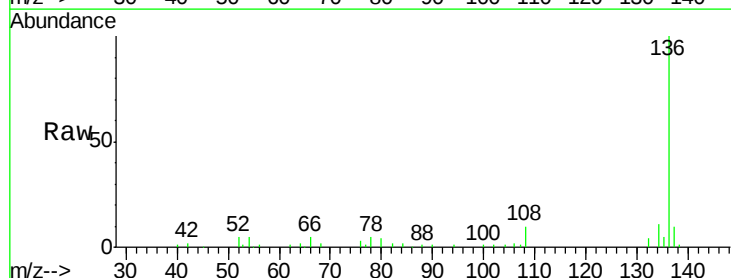
RT: 11.51 min Scan# 1399

Delta R.T. -0.04 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 79343 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 9.7   | 9.2   | 13.8  |
| 54        | 5.0   | 10.3  | 15.5# |
| 68        | 2.0   | 4.5   | 6.7#  |

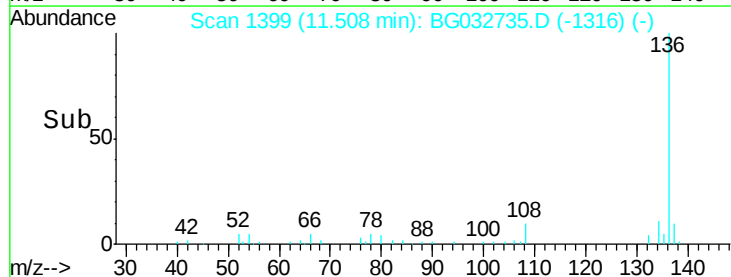
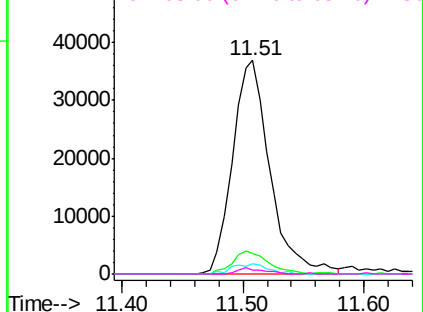


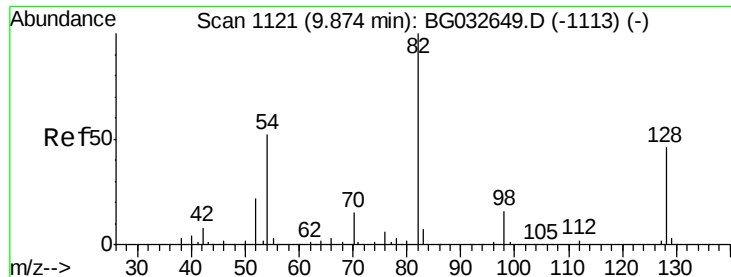
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

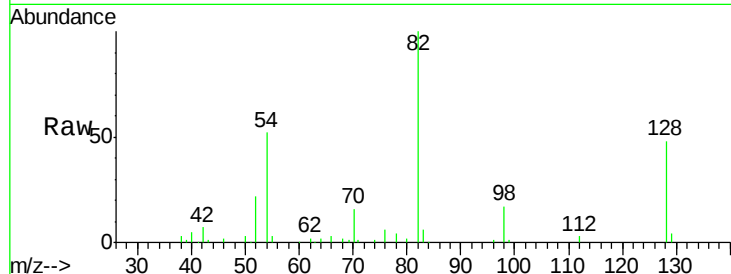




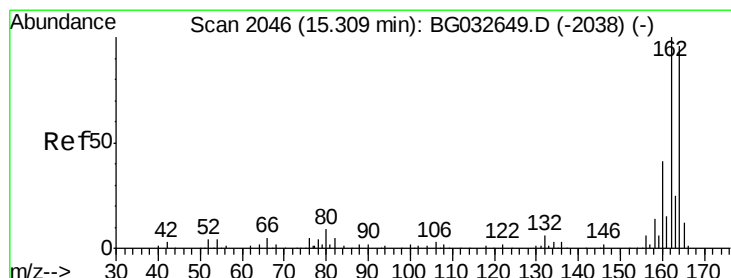
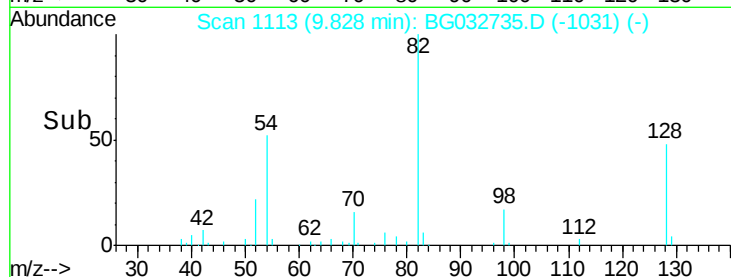
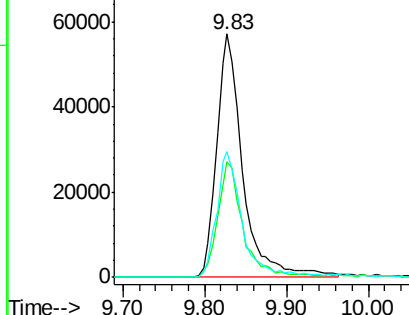
#23  
Nitrobenzene-d5  
Concen: 101.36 ng  
RT: 9.83 min Scan# 1113  
Delta R.T. -0.05 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion: 82 Resp: 126539  
Ion Ratio Lower Upper  
82 100  
128 47.7 29.7 44.5#  
54 51.8 43.1 64.7

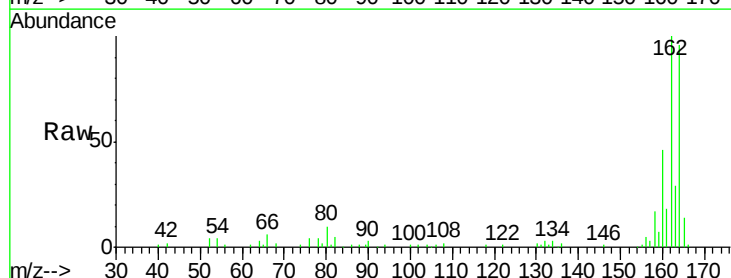


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

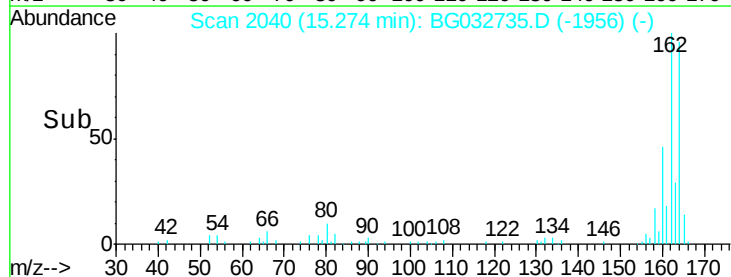
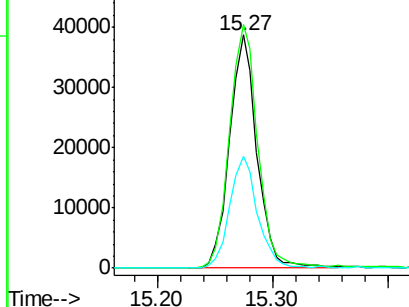


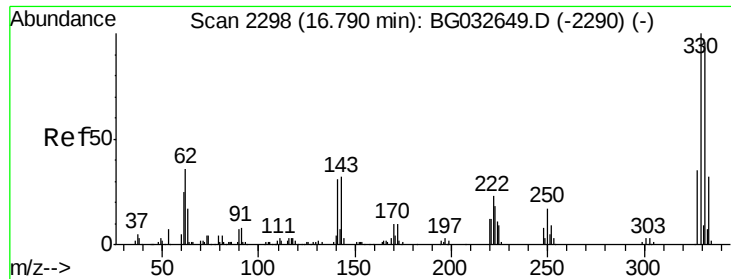
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.27 min Scan# 2040  
Delta R.T. -0.04 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

Tgt Ion:164 Resp: 63470  
Ion Ratio Lower Upper  
164 100  
162 104.4 78.8 118.2  
160 47.8 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

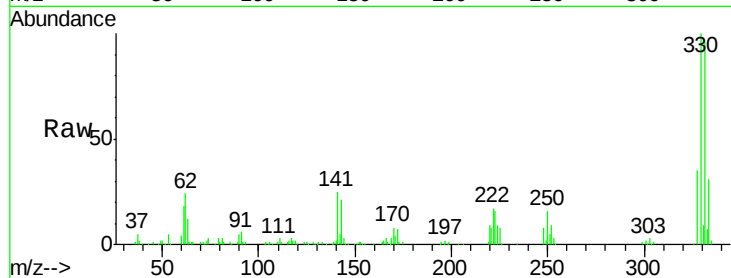




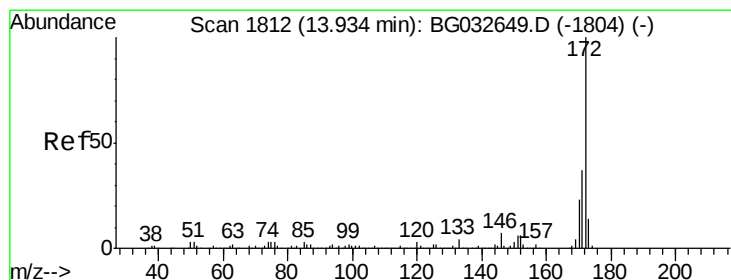
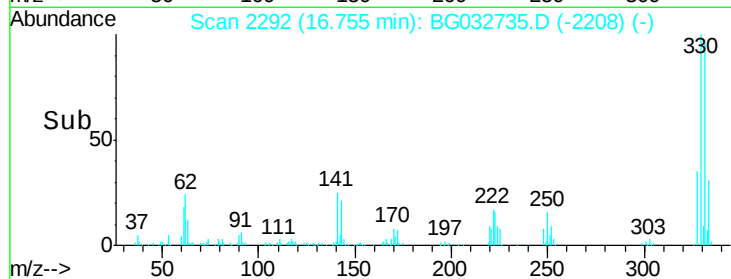
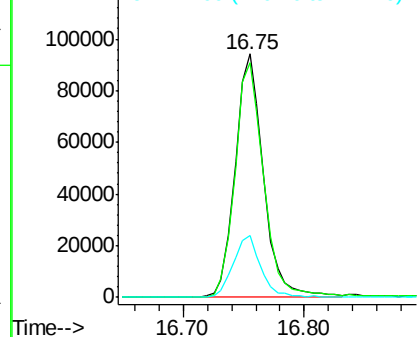
#41  
 2,4,6-Tribromophenol  
 Concen: 157.40 ng  
 RT: 16.75 min Scan# 2292  
 Delta R.T. -0.04 min  
 Lab File: BG032735.D  
 Acq: 16 Feb 2018 5:34

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 153830  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 77.0 115.6  
 141 25.1 25.2 37.8#

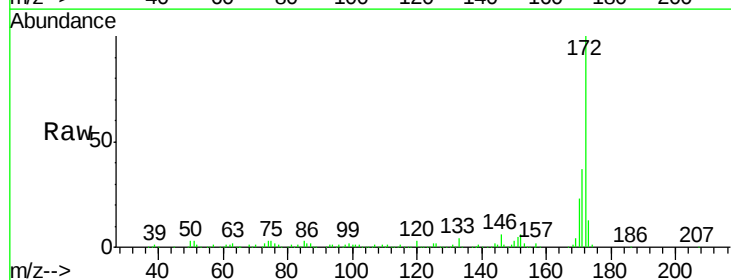


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

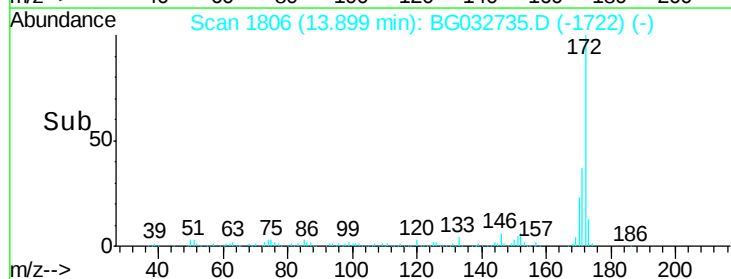
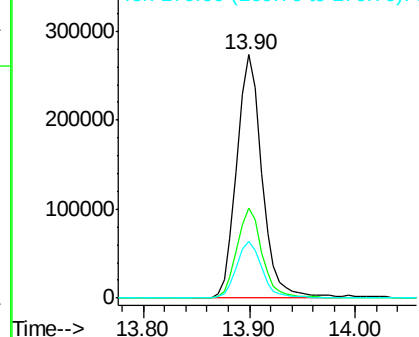


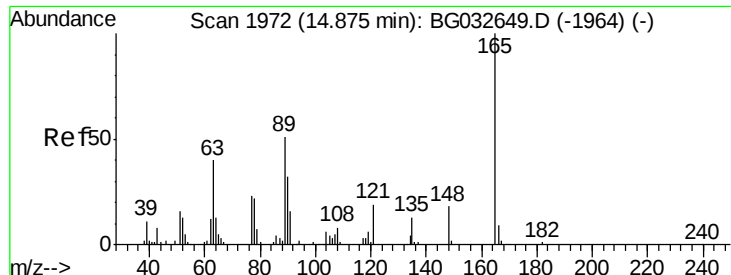
#44  
 2-Fluorobiphenyl  
 Concen: 89.41 ng  
 RT: 13.90 min Scan# 1806  
 Delta R.T. -0.04 min  
 Lab File: BG032735.D  
 Acq: 16 Feb 2018 5:34

Tgt Ion:172 Resp: 453818  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 30.0 45.0  
 170 23.1 19.5 29.3



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

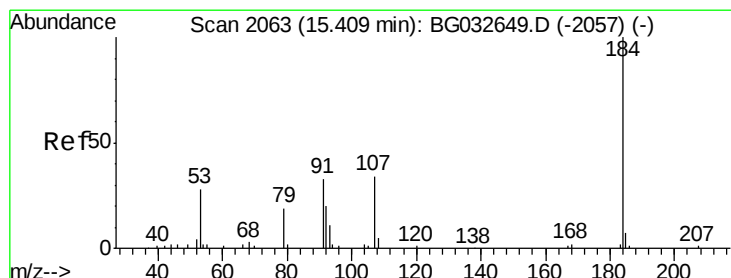
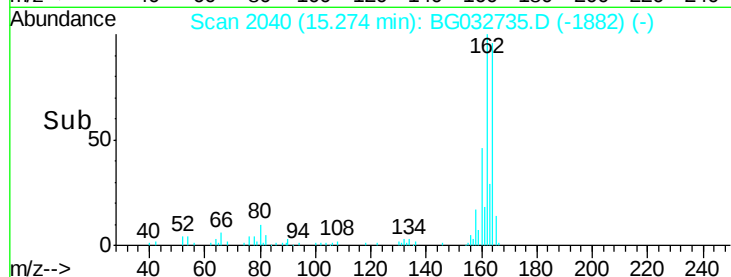
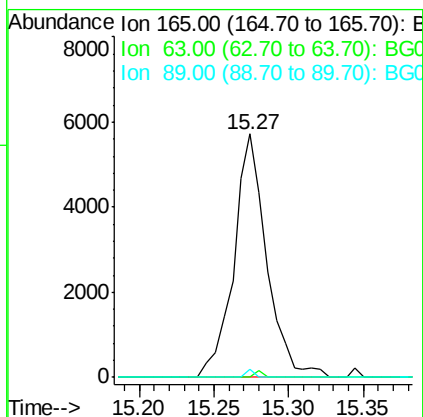
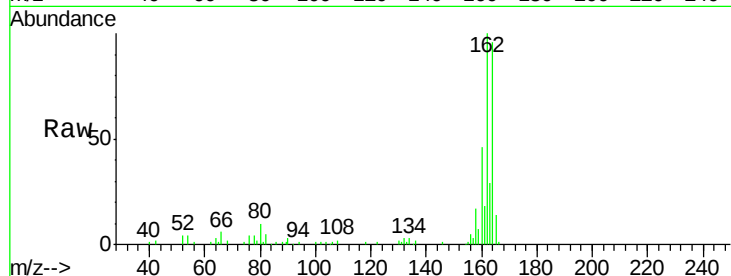




#50  
2,6-Dinitrotoluene  
Concen: 7.71 ng  
RT: 15.27 min Scan# 2040  
Delta R.T. 0.40 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

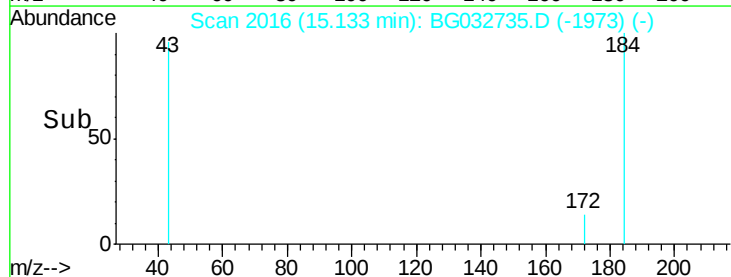
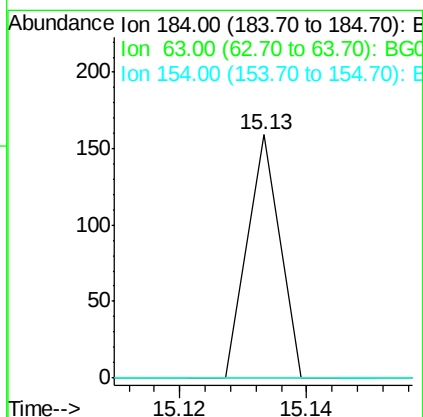
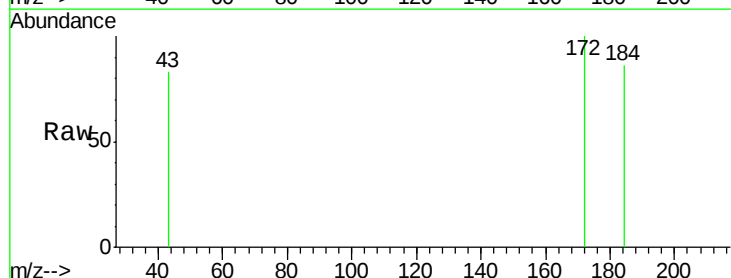
Instrument :  
BNA\_G  
ClientSampleId :

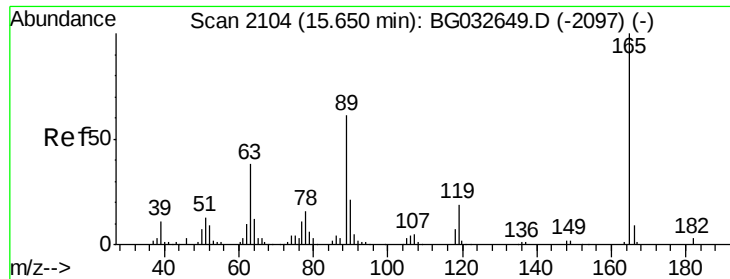
Tot Ion:165 Resp: 8710  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 3.6 49.2 73.8#



#53  
2,4-Dinitrophenol  
Concen: 11.54 ng  
RT: 15.13 min Scan# 2016  
Delta R.T. -0.28 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

Tgt Ion:184 Resp: 56  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#

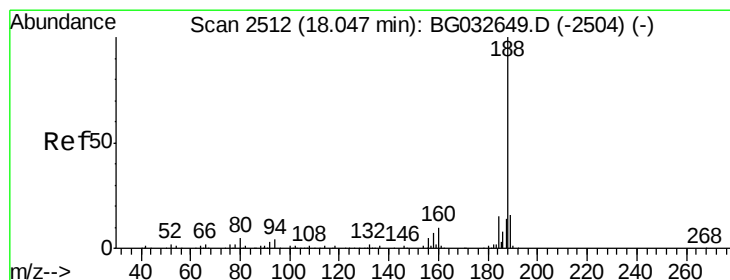
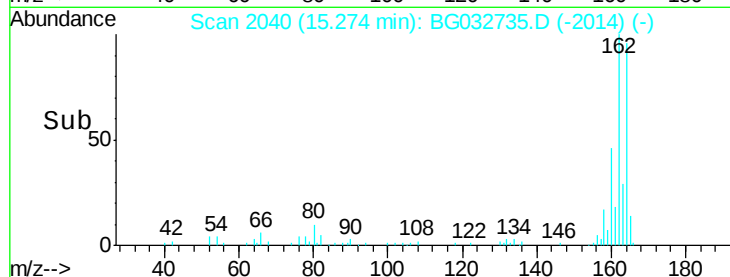
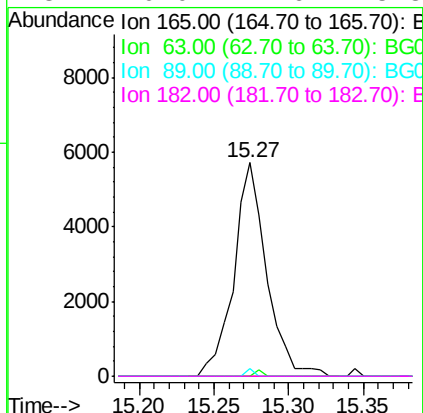
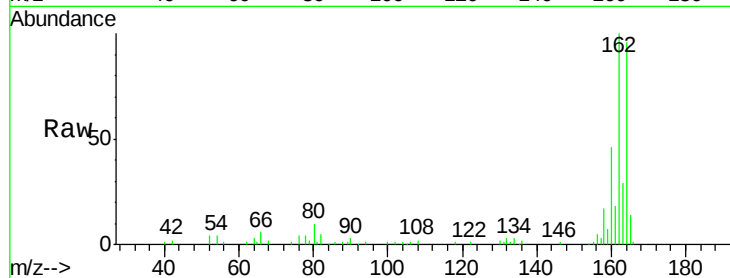




#56  
2,4-Dinitrotoluene  
Concen: 5.59 ng  
RT: 15.27 min Scan# 2040  
Delta R.T. -0.38 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

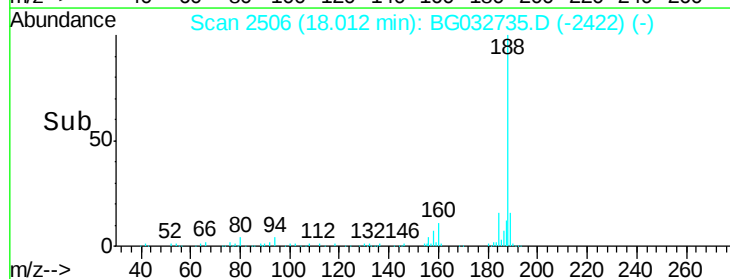
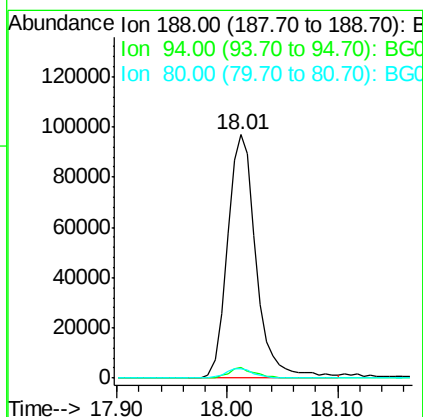
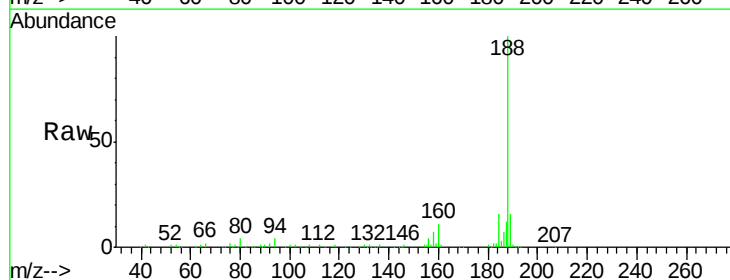
Instrument :  
BNA\_G  
ClientSampleId :

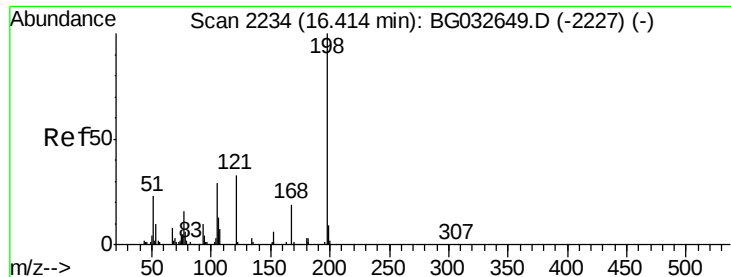
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 3.6   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.01 min Scan# 2506  
Delta R.T. -0.04 min  
Lab File: BG032735.D  
Acq: 16 Feb 2018 5:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.4   | 6.9   | 10.3# |
| 80      | 4.0   | 7.7   | 11.5# |





#64

4,6-Dinitro-2-methylphenol

Concen: 5.19 ng

RT: 16.74 min Scan# 2290

Delta R.T. 0.33 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

Instrument :

BNA\_G

ClientSampleId :

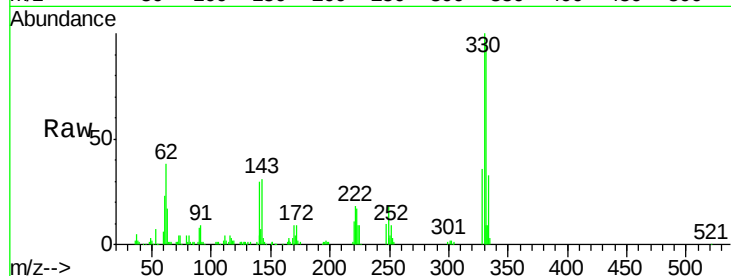
Tot Ion:198 Resp: 233

Ion Ratio Lower Upper

198 100

51 69.8 30.6 70.6

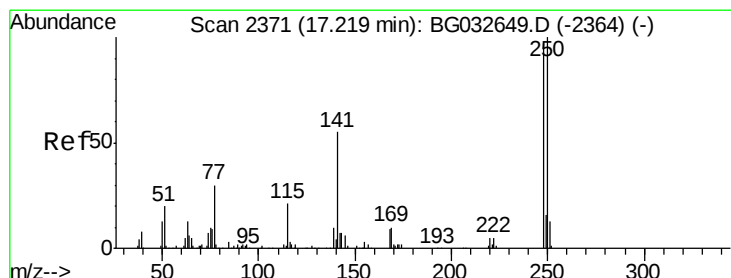
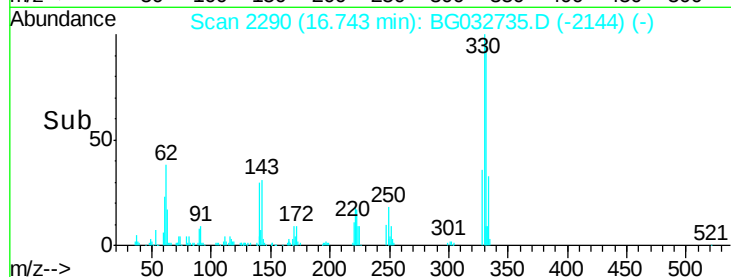
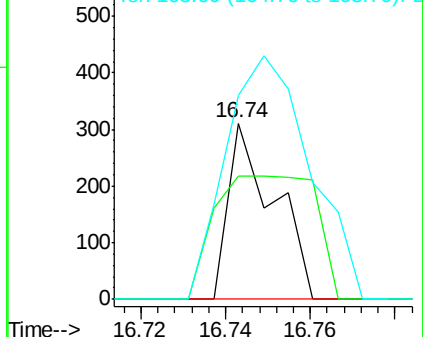
105 116.1 23.8 63.8#



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



#66

4-Bromophenyl-phenylether

Concen: 4.77 ng

RT: 16.75 min Scan# 2292

Delta R.T. -0.46 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

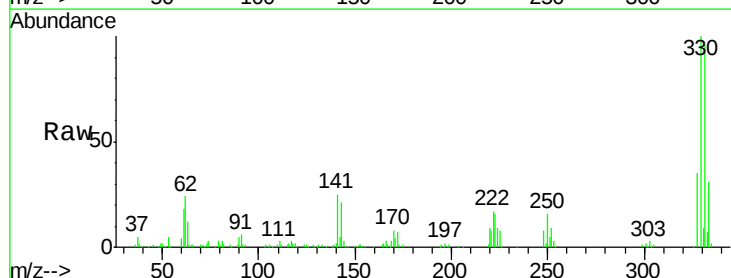
Tgt Ion:248 Resp: 11997

Ion Ratio Lower Upper

248 100

250 210.2 77.1 115.7#

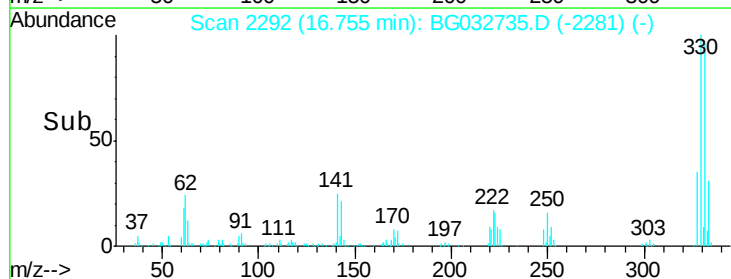
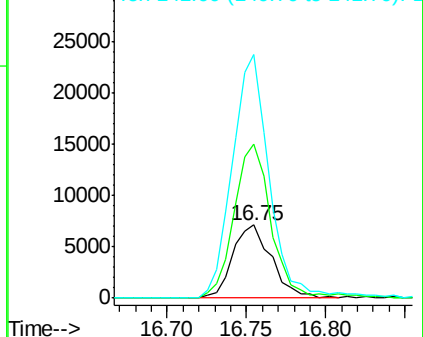
141 333.4 50.8 76.2#

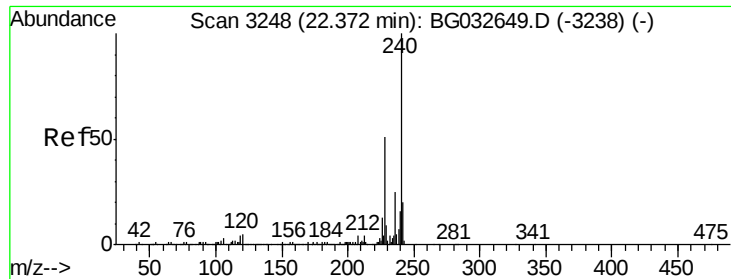


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 22.33 min Scan# 3241

Delta R.T. -0.04 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

Instrument :

BNA\_G

ClientSampleId :

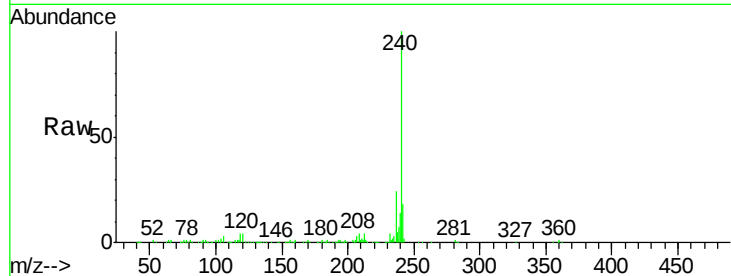
Tot Ion:240 Resp: 253968

Ion Ratio Lower Upper

240 100

120 3.8 6.8 10.2#

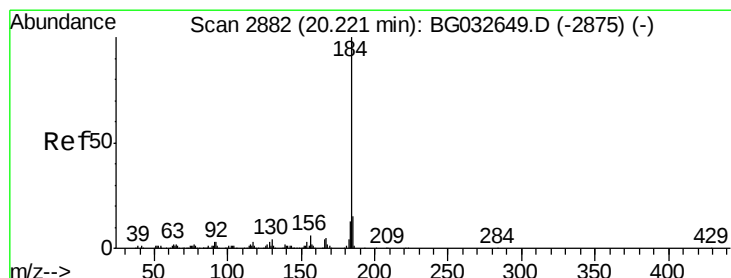
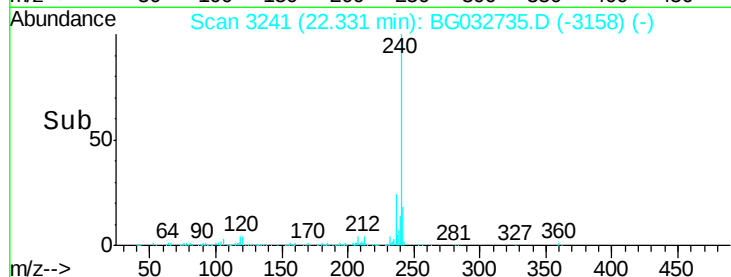
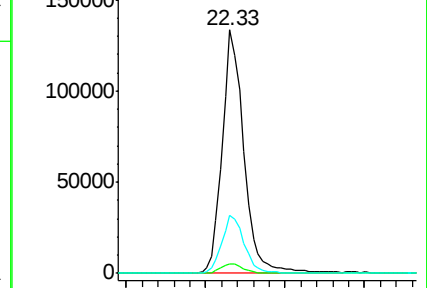
236 23.7 20.9 31.3



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



#76

Benzidine

Concen: 2.52 ng

RT: 20.56 min Scan# 2940

Delta R.T. 0.34 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

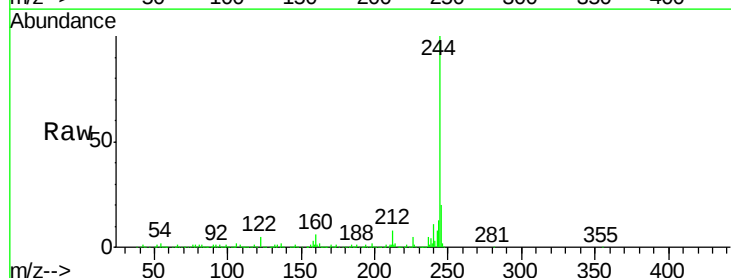
Tgt Ion:184 Resp: 15098

Ion Ratio Lower Upper

184 100

185 19.6 11.1 16.7#

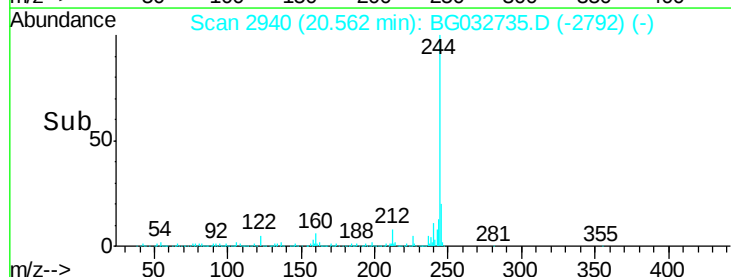
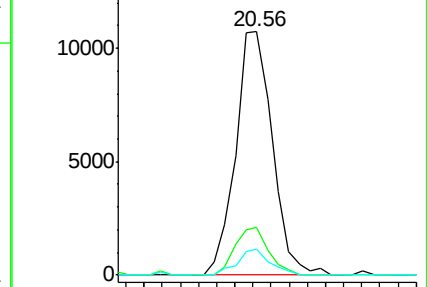
183 10.4 10.6 16.0#

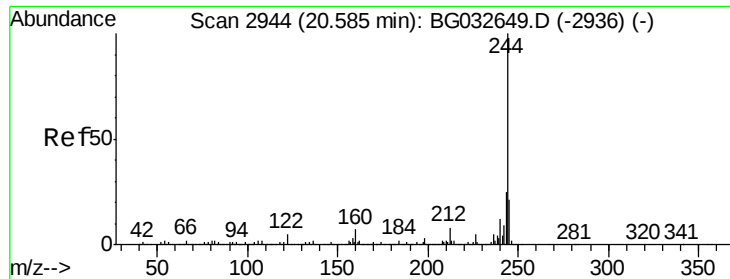


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 96.98 ng

RT: 20.56 min Scan# 2940

Delta R.T. -0.02 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

Instrument :

BNA\_G

ClientSampleId :

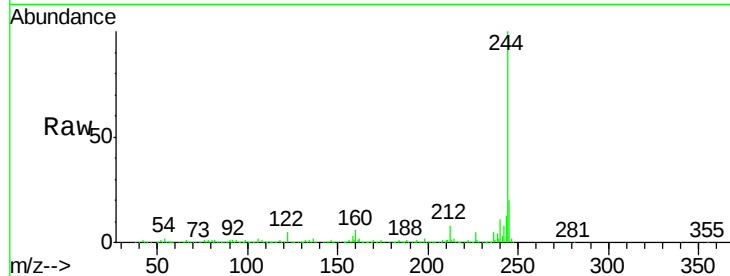
Tot Ion:244 Resp: 1080636

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

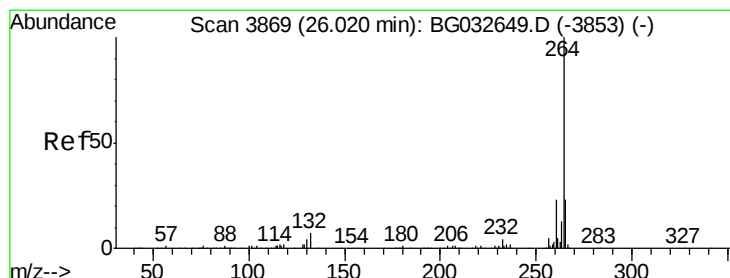
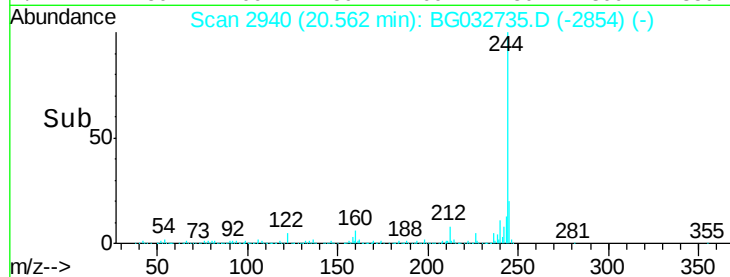
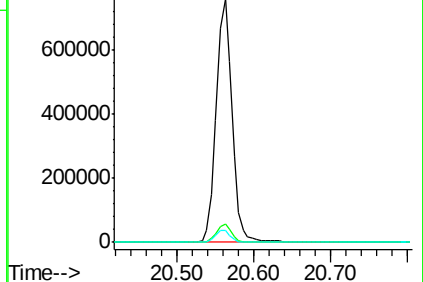
122 4.9 7.0 10.4#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.96 min Scan# 3859

Delta R.T. -0.06 min

Lab File: BG032735.D

Acq: 16 Feb 2018 5:34

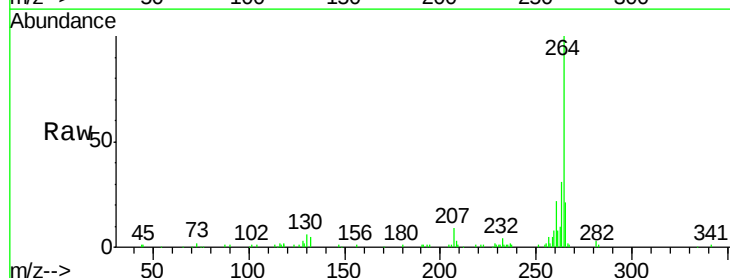
Tgt Ion:264 Resp: 120966

Ion Ratio Lower Upper

264 100

260 22.2 17.4 26.0

265 20.6 17.7 26.5



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

