

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062118\  
 Data File : BG035325.D  
 Acq On : 22 Jun 2018 8:54  
 Operator : JU/SJ  
 Sample : J3603-22  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 22 09:39:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG060718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 08 17:16:28 2018  
 Response via : Initial Calibration

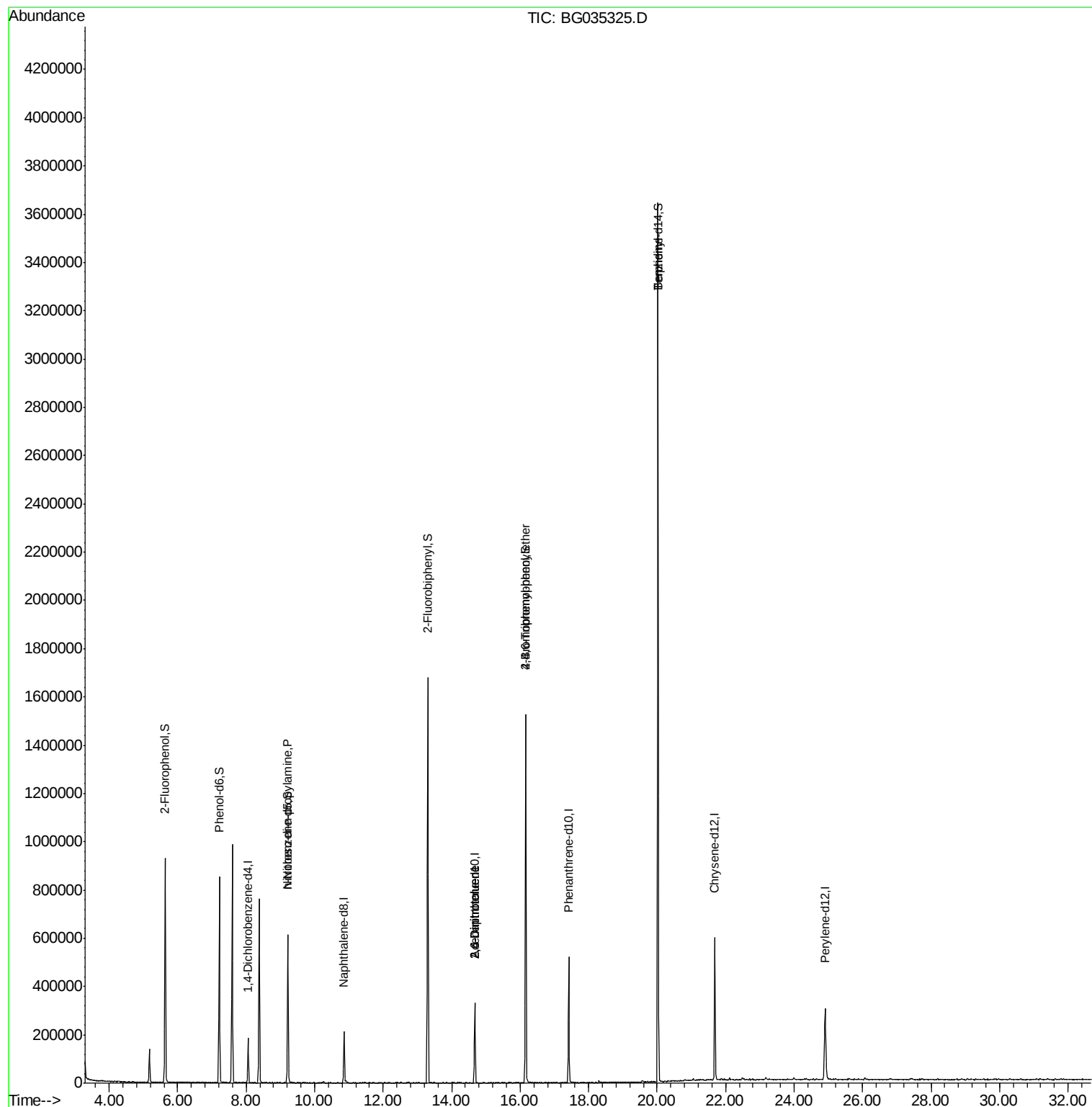
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 53902    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 179637   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 14.67 | 164  | 120888   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.42 | 188  | 330496   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 21.68 | 240  | 366273   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 24.90 | 264  | 350551   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 393783   | 123.29 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.21  | 99   | 501129   | 106.30 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 411481   | 108.88 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 279897   | 180.87 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 887908   | 95.48  | ng    | -0.03    |
| 78) Terphenyl-d14              | 20.03 | 244  | 1713542  | 98.00  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 58933    | 14.715 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 17277    | 8.984  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 17277    | 6.763  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 22549    | 5.666  | ng    | # 1      |
| 76) Benzidine                  | 20.03 | 184  | 29010    | 2.129  | ng    | # 90     |

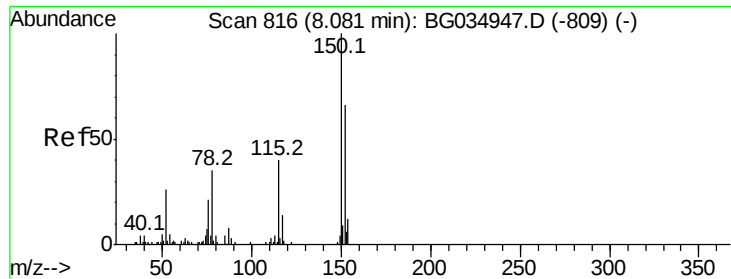
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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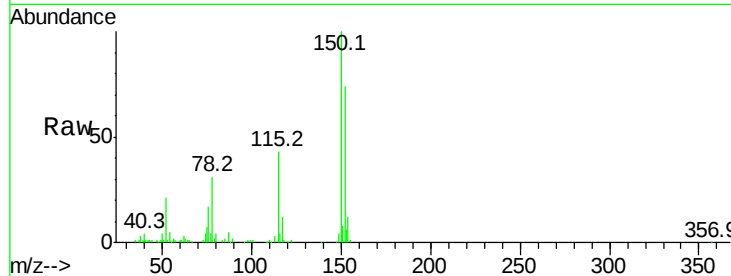


#1

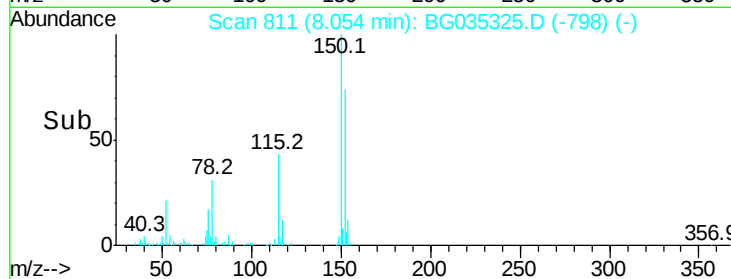
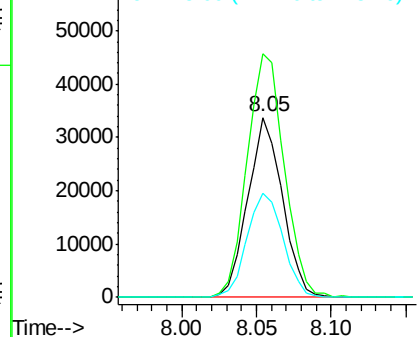
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 811  
Delta R.T. -0.02 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 53902  
Ion Ratio Lower Upper  
152 100  
150 135.5 126.6 189.8  
115 58.1 53.0 79.4



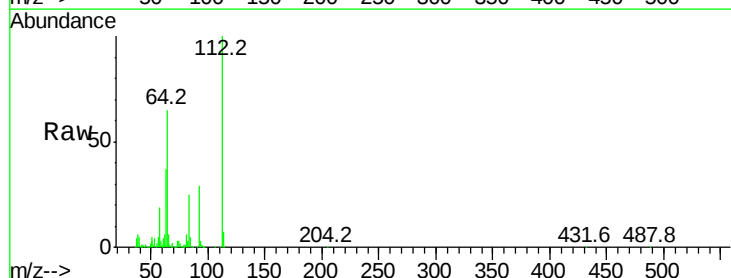
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



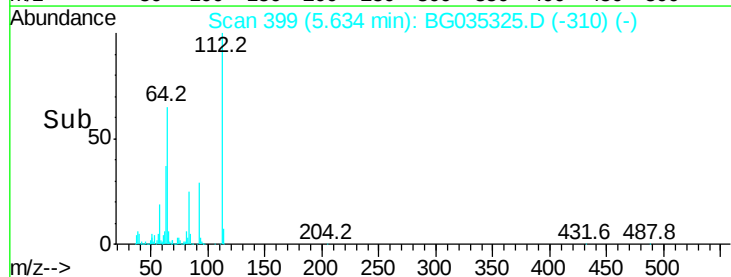
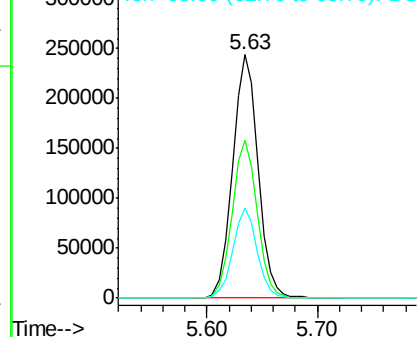
#5

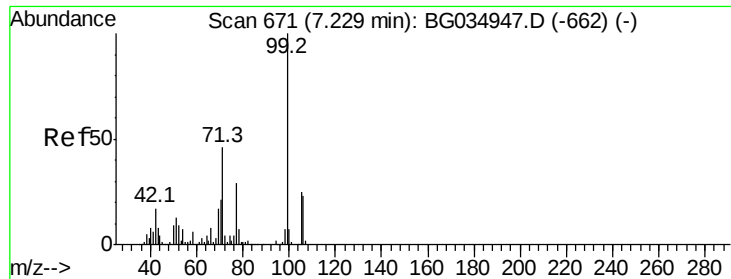
2-Fluorophenol  
Concen: 123.289 ng  
RT: 5.63 min Scan# 399  
Delta R.T. -0.01 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

Tgt Ion:112 Resp: 393783  
Ion Ratio Lower Upper  
112 100  
64 64.9 56.3 84.5  
63 36.8 30.1 45.1



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: 106.303 ng

RT: 7.21 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

Instrument :

BNA\_G

ClientSampleId :

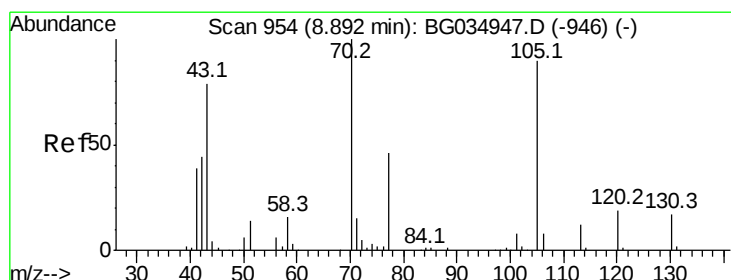
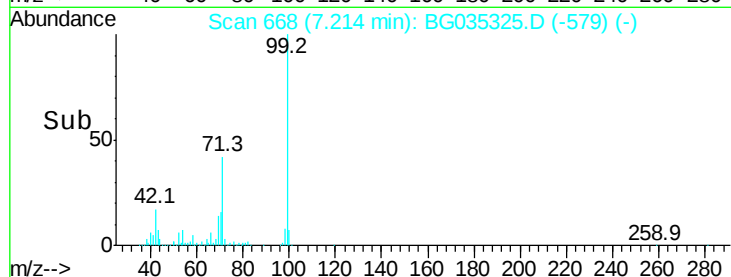
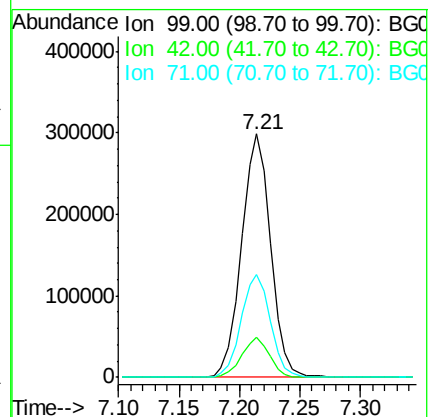
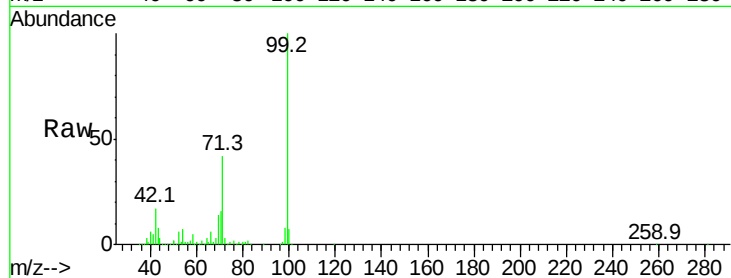
Tot Ion: 99 Resp: 501129

Ion Ratio Lower Upper

99 100

42 16.6 14.1 21.1

71 42.1 26.1 39.1#



#19

n-Nitroso-di-n-propylamine

Concen: 14.715 ng

RT: 9.22 min Scan# 1009

Delta R.T. 0.34 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

Tgt Ion: 70 Resp: 58933

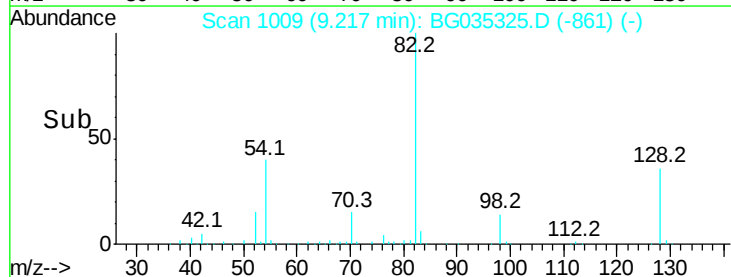
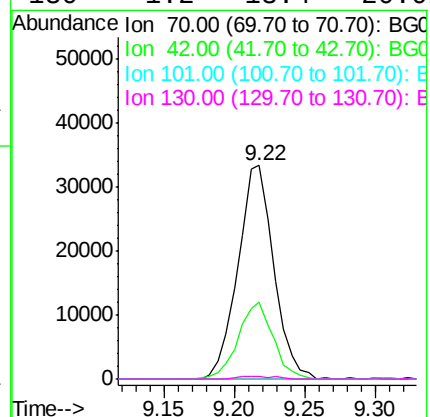
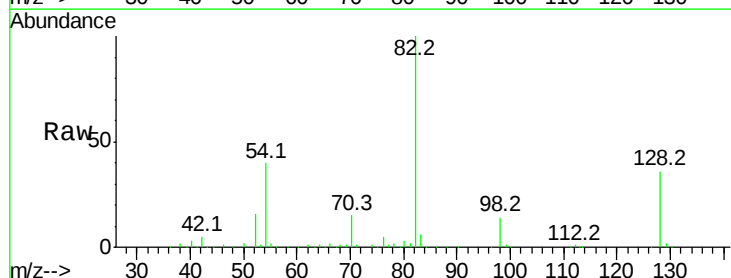
Ion Ratio Lower Upper

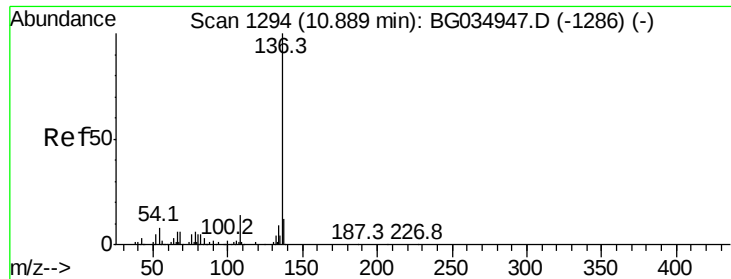
70 100

42 35.9 49.1 73.7#

101 0.0 8.5 12.7#

130 1.2 13.4 20.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.86 min Scan# 1288

Delta R.T. -0.03 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 179637

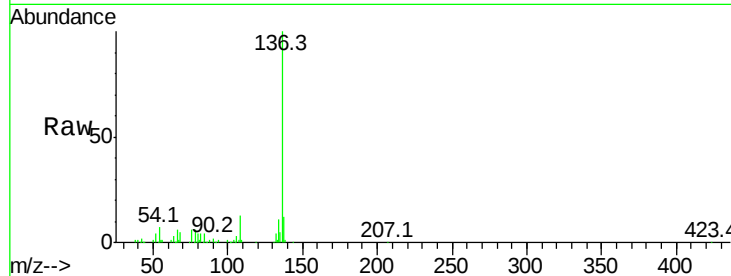
Ion Ratio Lower Upper

136 100

137 12.0 9.2 13.8

54 7.4 10.3 15.5#

68 4.9 4.5 6.7

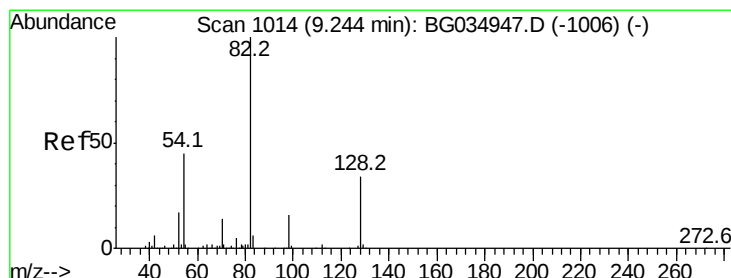
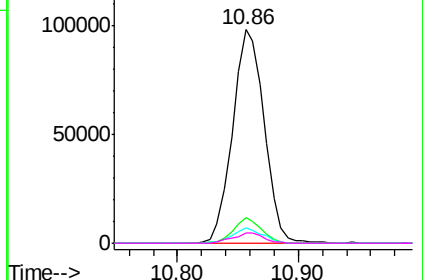
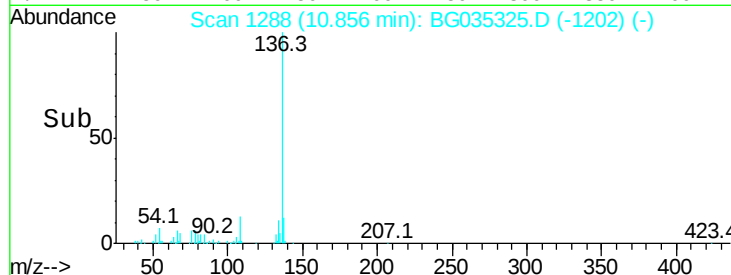


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 108.883 ng

RT: 9.22 min Scan# 1009

Delta R.T. -0.02 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

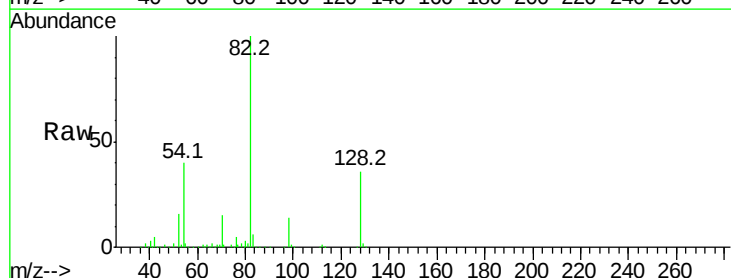
Tgt Ion: 82 Resp: 411481

Ion Ratio Lower Upper

82 100

128 35.5 29.7 44.5

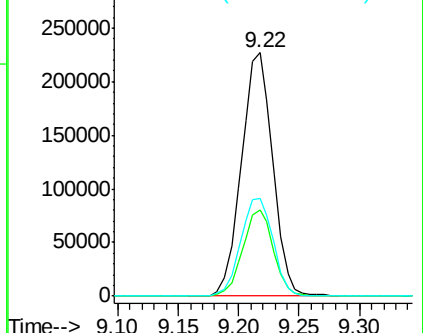
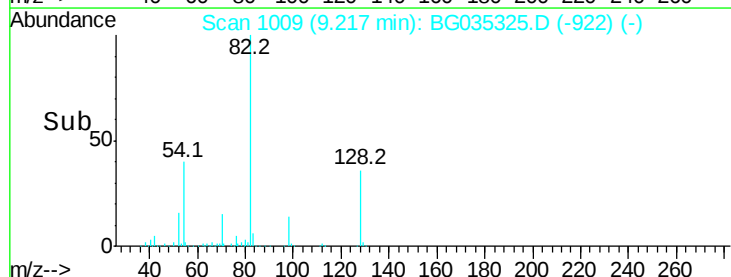
54 40.0 43.1 64.7#

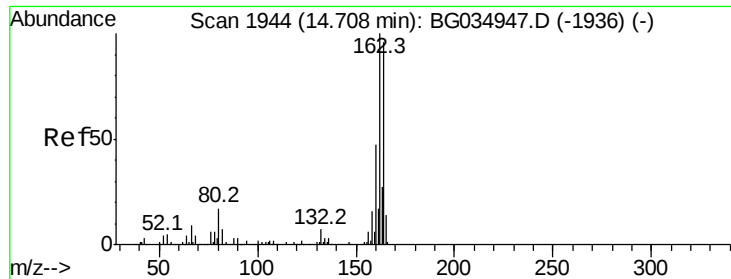


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

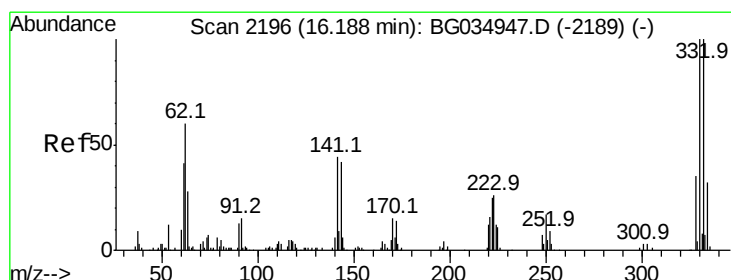
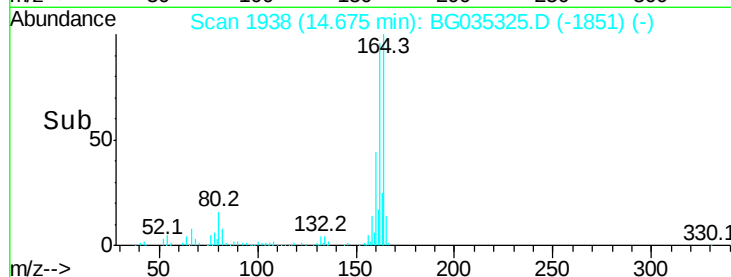
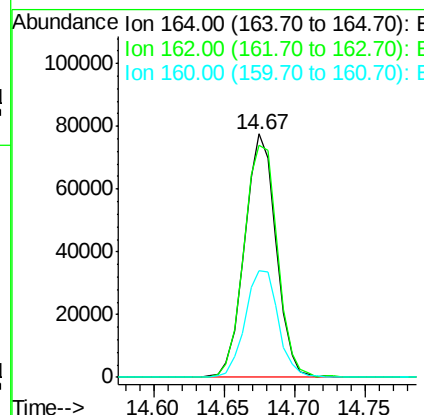
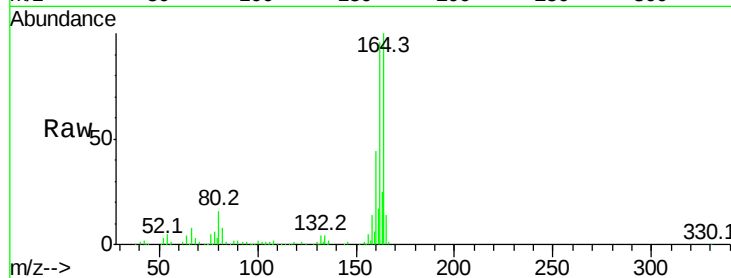




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.67 min Scan# 1938  
 Delta R.T. -0.02 min  
 Lab File: BG035325.D  
 Acq: 22 Jun 2018 8:54

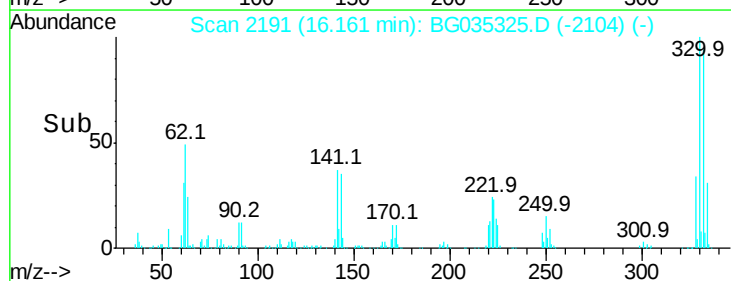
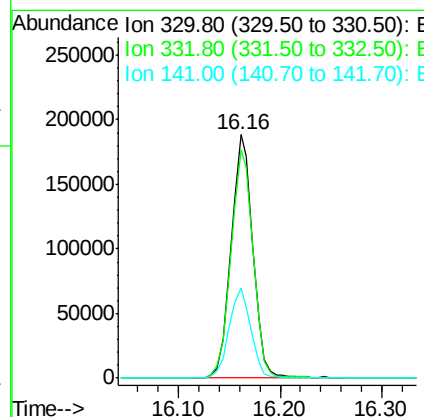
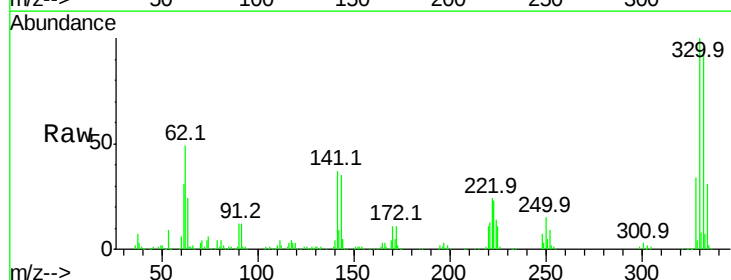
Instrument :  
 BNA\_G  
 ClientSampleId :

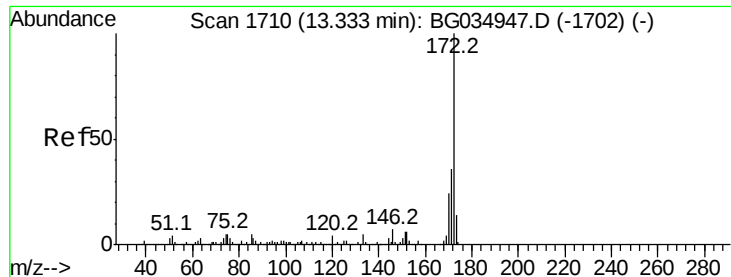
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.6  | 78.8  | 118.2 |
| 160     | 43.6  | 35.4  | 53.0  |



#41  
 2,4,6-Tribromophenol  
 Concen: 180.868 ng  
 RT: 16.16 min Scan# 2191  
 Delta R.T. -0.02 min  
 Lab File: BG035325.D  
 Acq: 22 Jun 2018 8:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.5  | 77.0  | 115.6 |
| 141     | 37.0  | 25.2  | 37.8  |

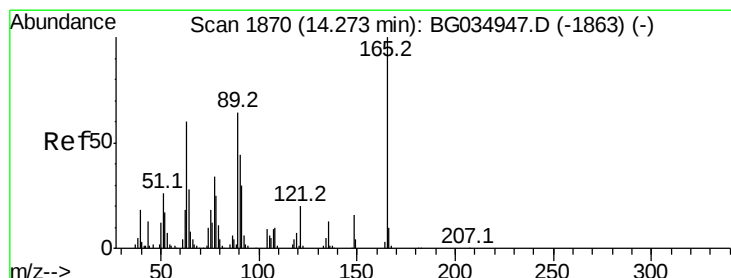
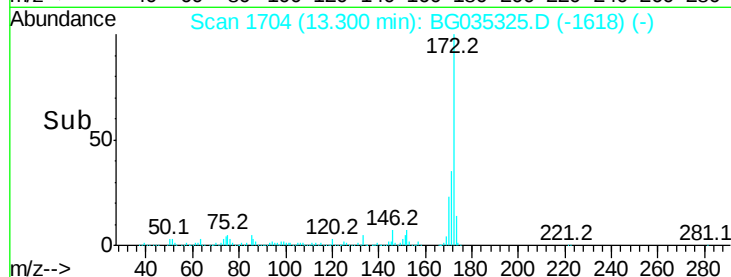
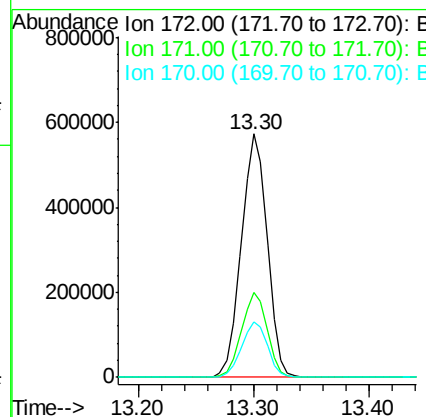
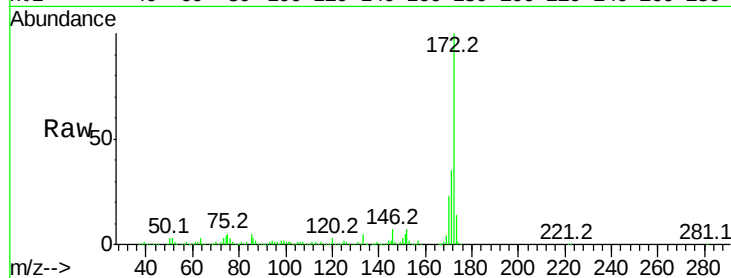




#44  
2-Fluorobiphenyl  
Concen: 95.483 ng  
RT: 13.30 min Scan# 1704  
Delta R.T. -0.03 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

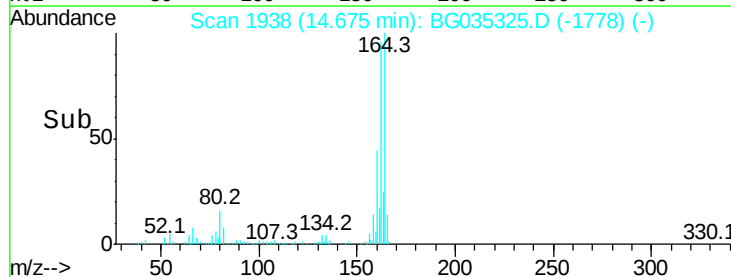
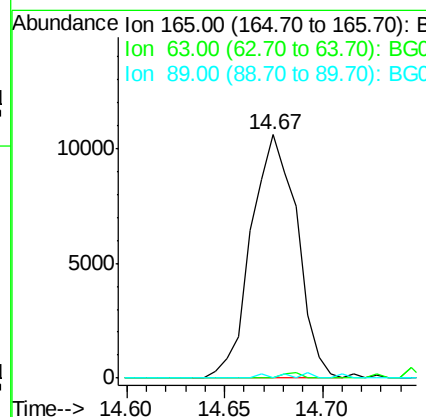
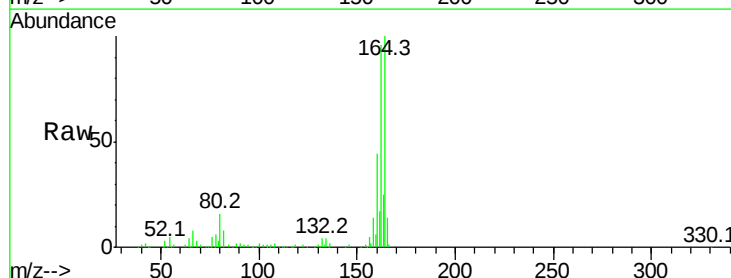
Instrument :  
BNA\_G  
ClientSampleId :

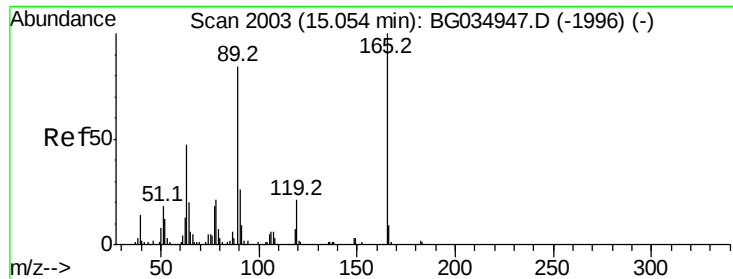
Tot Ion:172 Resp: 887908  
Ion Ratio Lower Upper  
172 100  
171 34.9 30.0 45.0  
170 23.0 19.5 29.3



#50  
2,6-Dinitrotoluene  
Concen: 8.984 ng  
RT: 14.67 min Scan# 1938  
Delta R.T. 0.41 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

Tgt Ion:165 Resp: 17277  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 0.0 49.2 73.8#





#56

2,4-Dinitrotoluene

Concen: 6.763 ng

RT: 14.67 min Scan# 1938

Delta R.T. -0.37 min

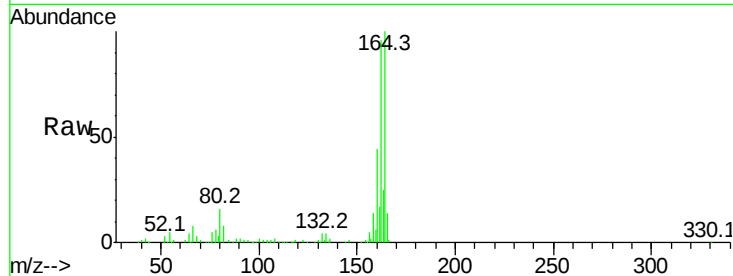
Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

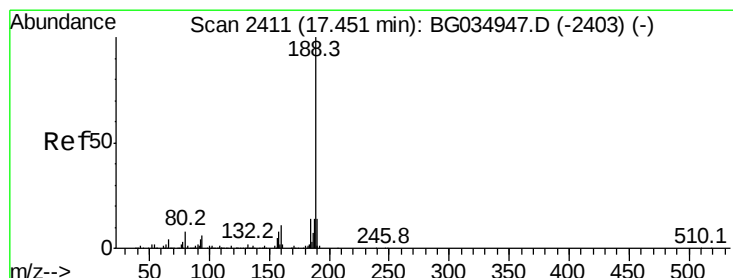
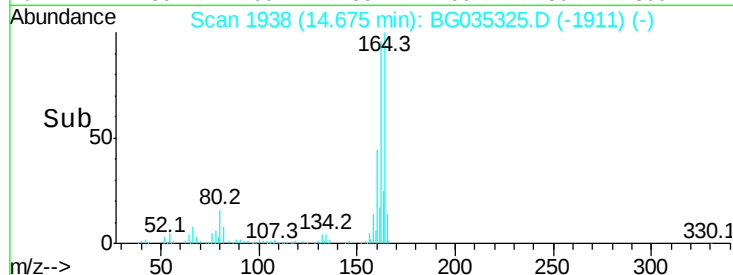
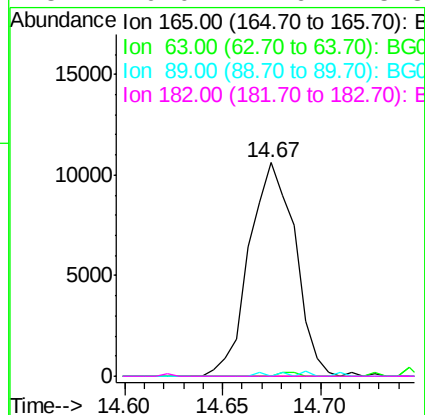
Instrument :

BNA\_G

ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 165   | Resp: | 17277  |
| Ion      | Ratio | Lower | Upper  |
| 165      | 100   |       |        |
| 63       | 0.0   | 42.0  | 63.0#  |
| 89       | 0.0   | 66.9  | 100.3# |
| 182      | 0.0   | 2.6   | 3.8#   |



#63

Phenanthrene-d10

Concen: 20.000 ng

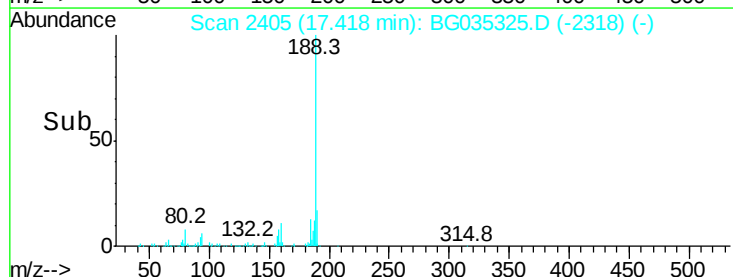
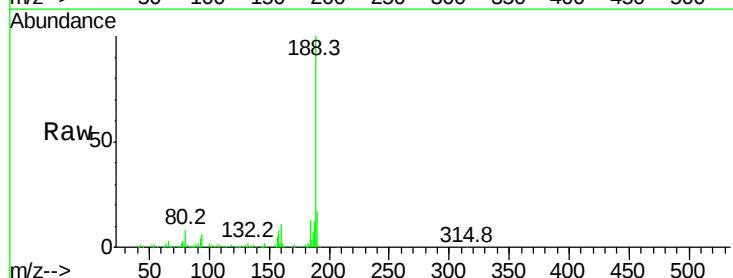
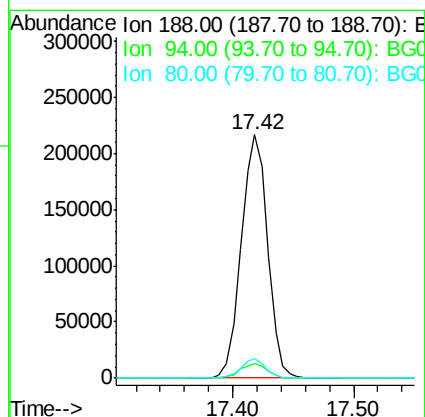
RT: 17.42 min Scan# 2405

Delta R.T. -0.02 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 330496 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 6.0   | 6.9   | 10.3#  |
| 80       | 8.0   | 7.7   | 11.5   |

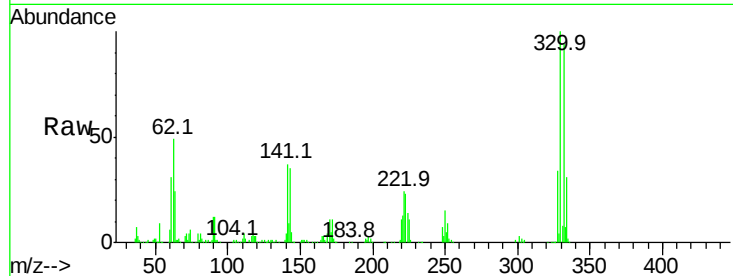




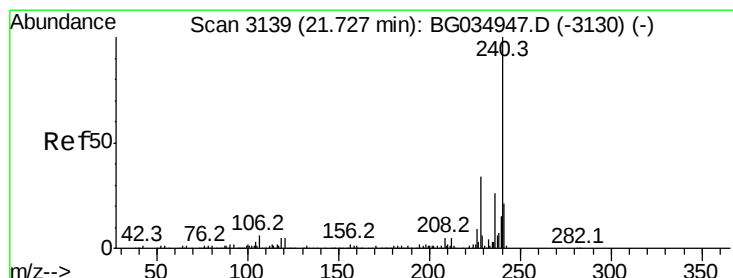
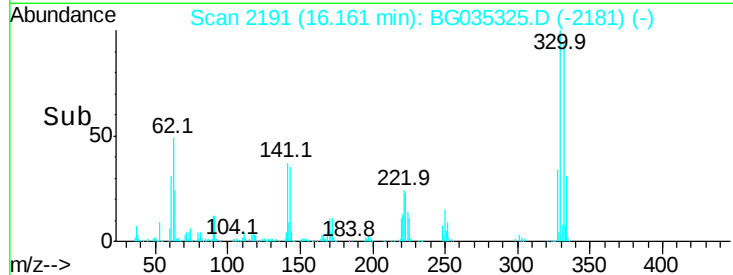
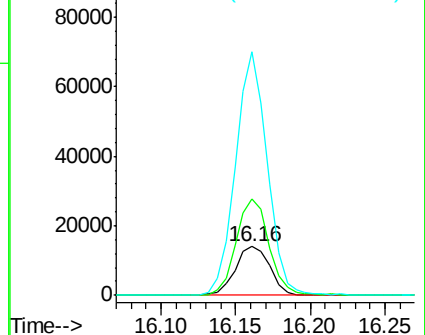
#66  
4-Bromophenyl-phenylether  
Concen: 5.666 ng  
RT: 16.16 min Scan# 2191  
Delta R.T. -0.47 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 22549  
Ion Ratio Lower Upper  
248 100  
250 199.2 77.1 115.7#  
141 502.1 50.8 76.2#

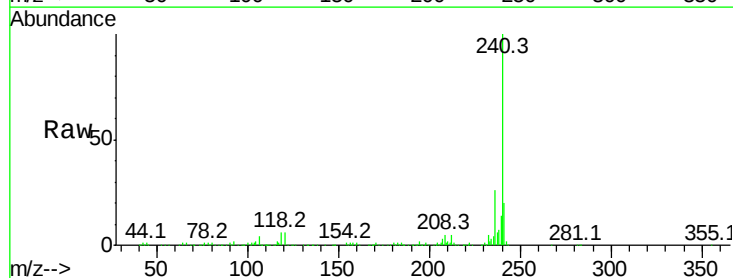


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

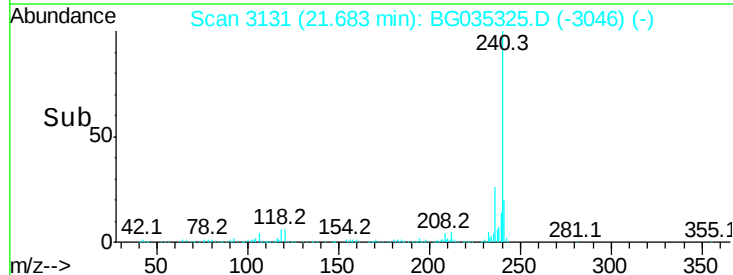
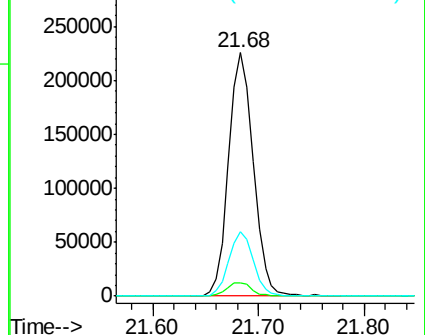


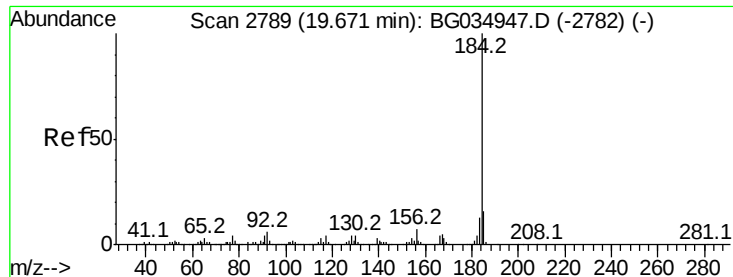
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3131  
Delta R.T. -0.03 min  
Lab File: BG035325.D  
Acq: 22 Jun 2018 8:54

Tgt Ion:240 Resp: 366273  
Ion Ratio Lower Upper  
240 100  
120 5.6 6.8 10.2#  
236 26.3 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: 2.129 ng

RT: 20.03 min Scan# 2849

Delta R.T. 0.36 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

Instrument :

BNA\_G

ClientSampleId :

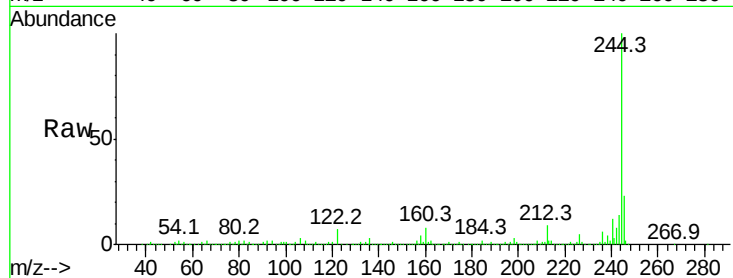
Tot Ion:184 Resp: 29010

Ion Ratio Lower Upper

184 100

185 16.5 11.1 16.7

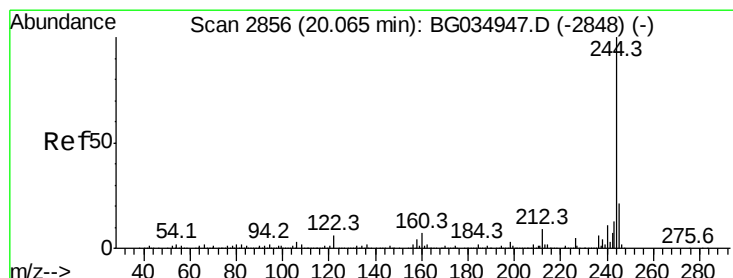
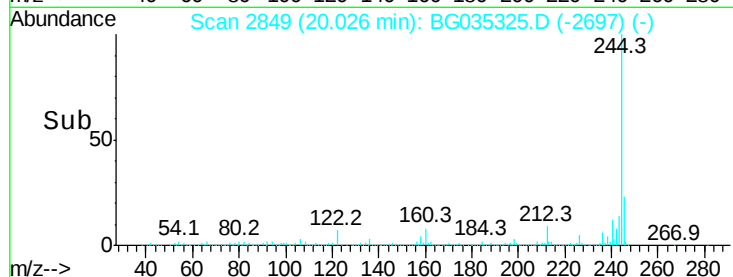
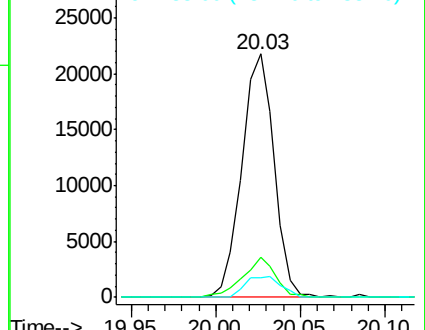
183 7.8 10.6 16.0#



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: 97.996 ng

RT: 20.03 min Scan# 2849

Delta R.T. -0.02 min

Lab File: BG035325.D

Acq: 22 Jun 2018 8:54

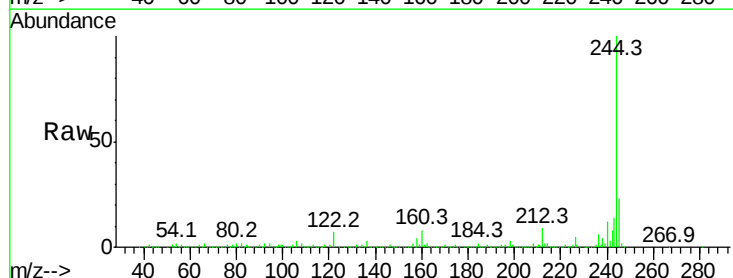
Tgt Ion:244 Resp: 1713542

Ion Ratio Lower Upper

244 100

212 9.3 5.8 8.8#

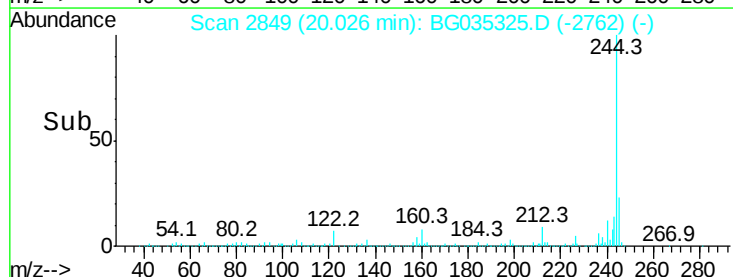
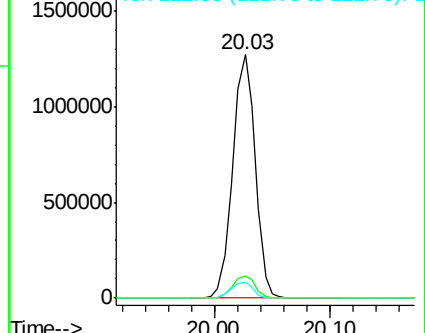
122 6.7 7.0 10.4#

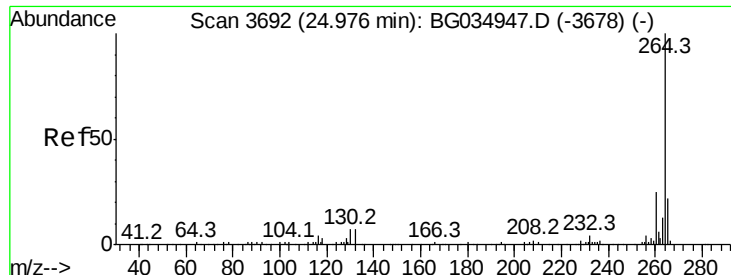


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

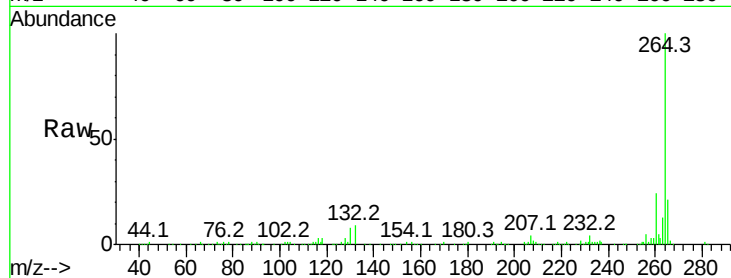




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.90 min Scan# 3679  
 Delta R.T. -0.05 min  
 Lab File: BG035325.D  
 Acq: 22 Jun 2018 8:54

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 17.4  | 26.0  |
| 265     | 21.1  | 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

