

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032018\  
 Data File : BG033268.D  
 Acq On : 20 Mar 2018 15:26  
 Operator : SJ/JU  
 Sample : J1982-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 20 16:34:27 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 19 16:48:53 2018  
 Response via : Initial Calibration

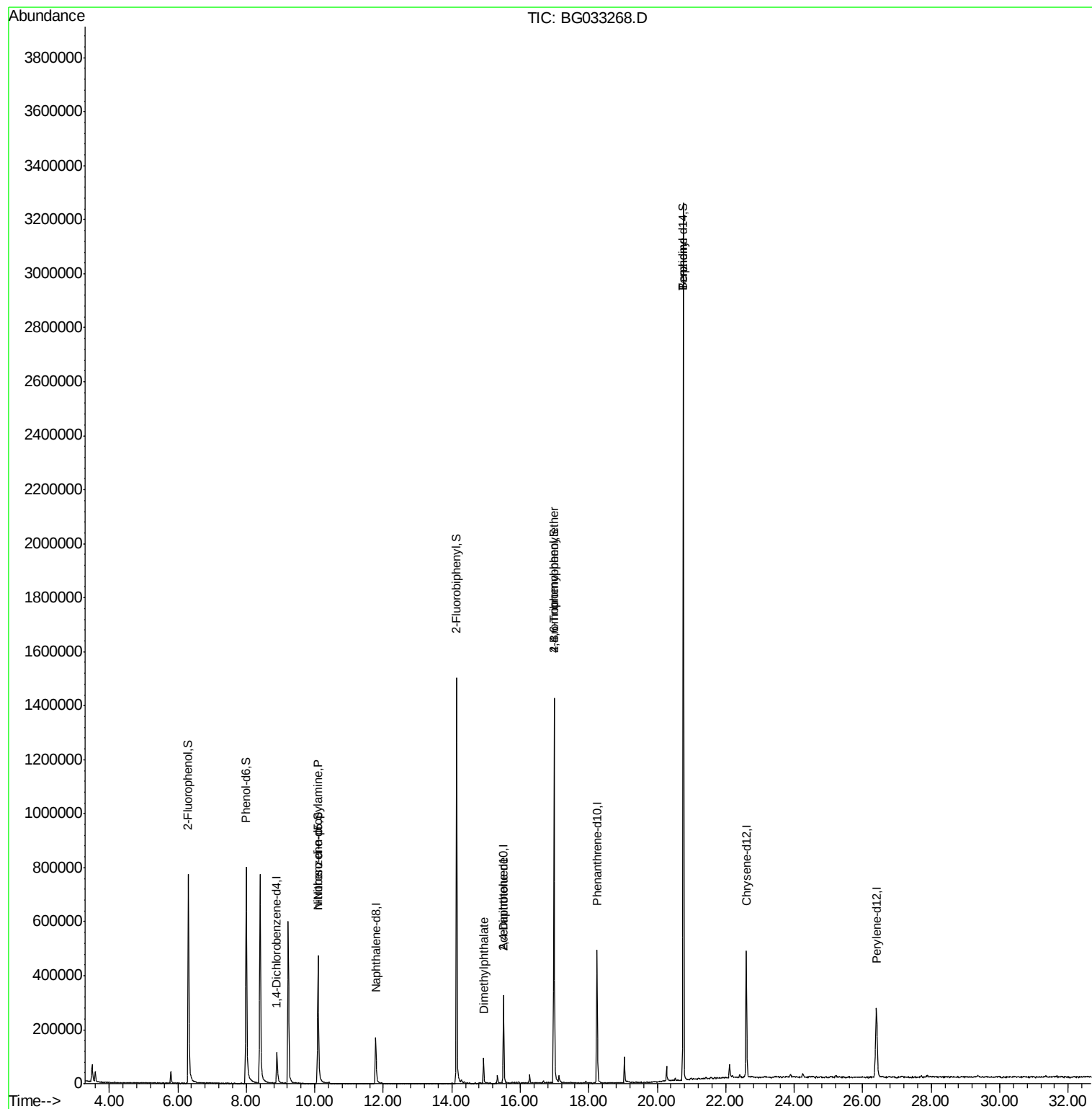
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.89  | 152  | 41720    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 11.78 | 136  | 171439   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10           | 15.51 | 164  | 129103   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10           | 18.24 | 188  | 342389   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 22.60 | 240  | 344822   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12               | 26.40 | 264  | 359562   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 6.31  | 112  | 384160   | 172.66 | ng    | 0.00        |
| 7) Phenol-d6                   | 8.00  | 99   | 573281   | 149.96 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 10.09 | 82   | 377509   | 101.17 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 16.98 | 330  | 289965   | 150.17 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 14.14 | 172  | 867644   | 97.02  | ng    | 0.00        |
| 78) Terphenyl-d14              | 20.76 | 244  | 1535487  | 95.23  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 10.09 | 70   | 51169    | 18.266 | ng    | Qvalue # 76 |
| 49) Dimethylphthalate          | 14.93 | 163  | 67225    | 5.983  | ng    | 99          |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 15829    | 4.680  | ng    | # 19        |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 22223    | 5.527  | ng    | # 1         |
| 76) Benzidine                  | 20.76 | 184  | 26499    | 2.834  | ng    | # 91        |

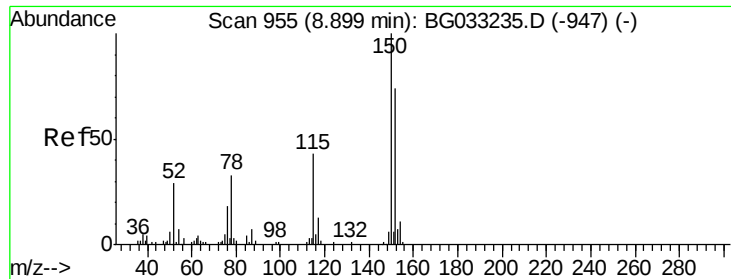
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032018\  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 20 16:34:27 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 19 16:48:53 2018  
Response via : Initial Calibration



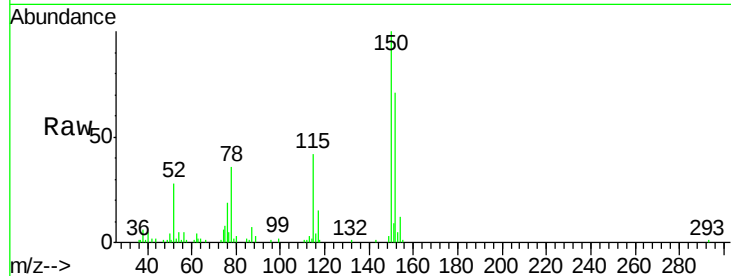


#1

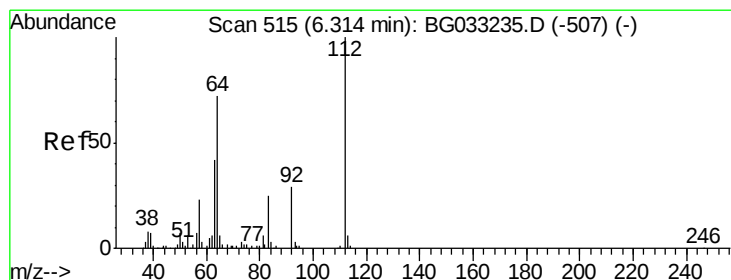
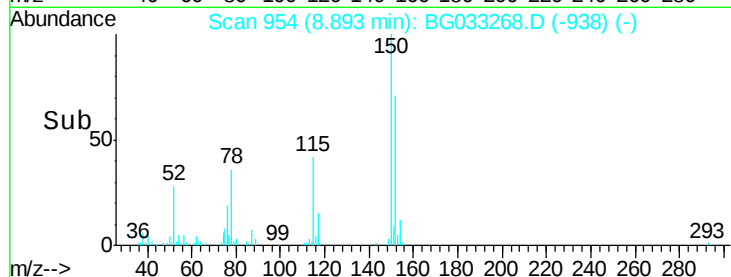
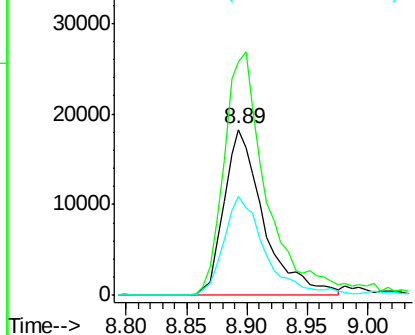
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.89 min Scan# 954  
Delta R.T. -0.01 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 140.7 | 126.6 | 189.8 |
| 115     | 59.4  | 53.0  | 79.4  |



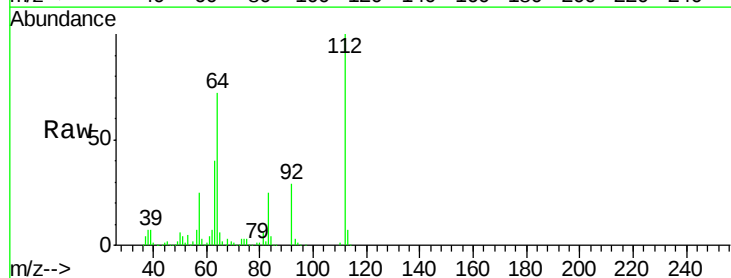
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



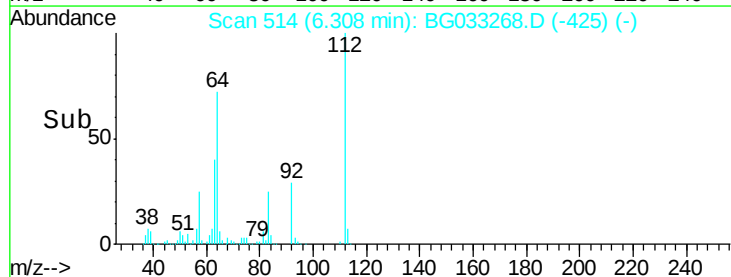
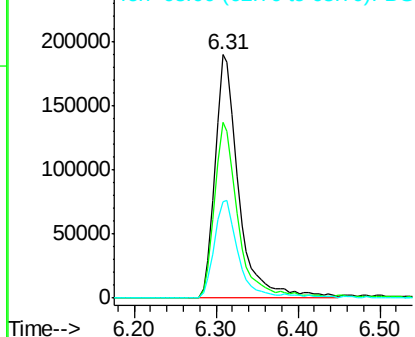
#5

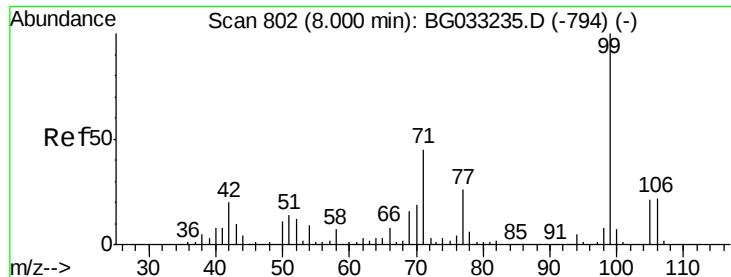
2-Fluorophenol  
Concen: 172.662 ng  
RT: 6.31 min Scan# 514  
Delta R.T. -0.01 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.2  | 56.3  | 84.5  |
| 63      | 39.7  | 30.1  | 45.1  |



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: 149.961 ng

RT: 8.00 min Scan# 802

Delta R.T. 0.00 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

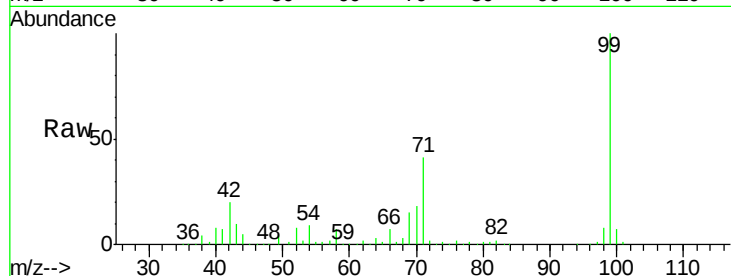
Tot Ion: 99 Resp: 573281

Ion Ratio Lower Upper

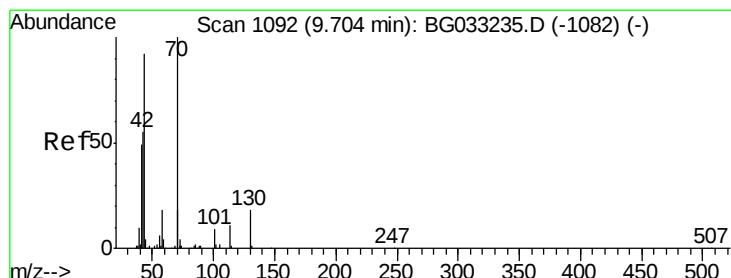
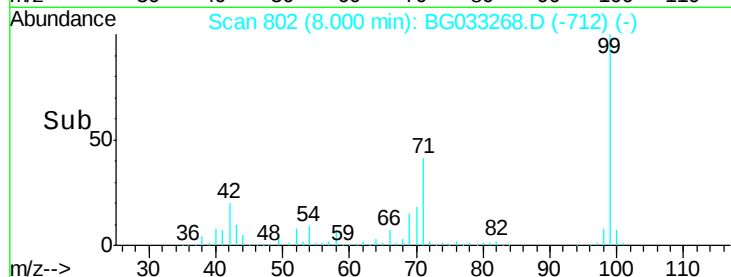
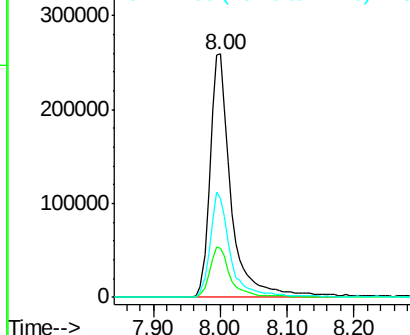
99 100

42 20.3 14.1 21.1

71 40.8 26.1 39.1#



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



#19

n-Nitroso-di-n-propylamine

Concen: 18.266 ng

RT: 10.09 min Scan# 1158

Delta R.T. 0.39 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

Tgt Ion: 70 Resp: 51169

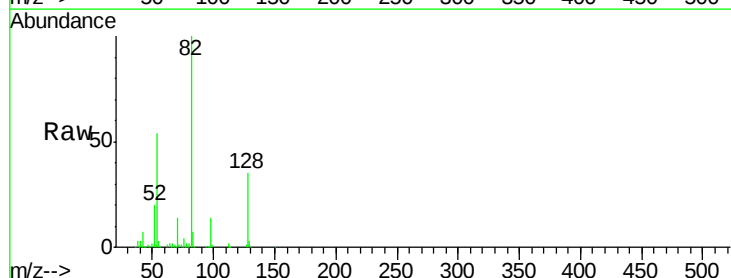
Ion Ratio Lower Upper

70 100

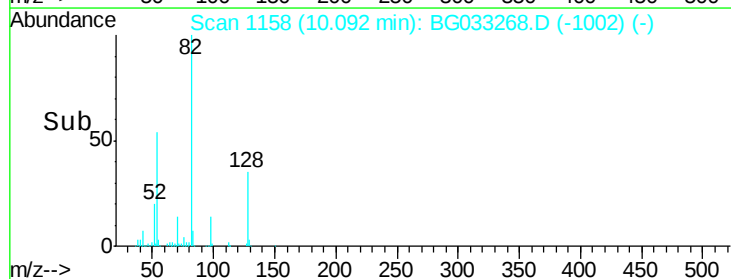
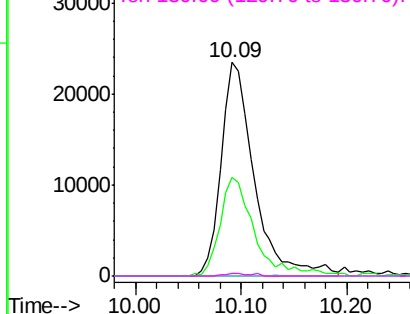
42 46.1 49.1 73.7#

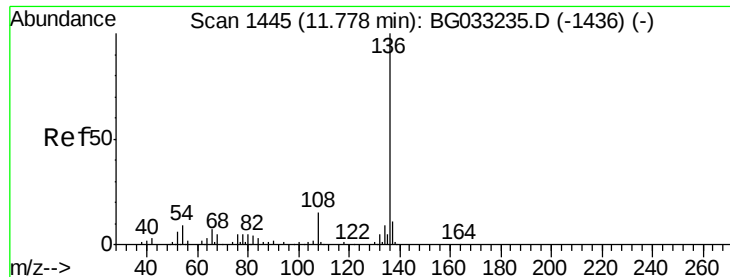
101 0.0 8.5 12.7#

130 1.4 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: 20.000 ng

RT: 11.78 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 171439

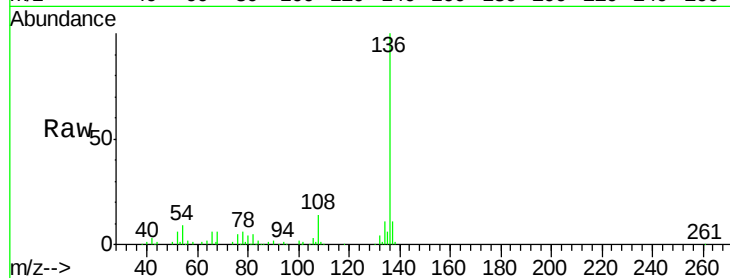
Ion Ratio Lower Upper

136 100

137 10.7 9.2 13.8

54 9.4 10.3 15.5#

68 5.9 4.5 6.7

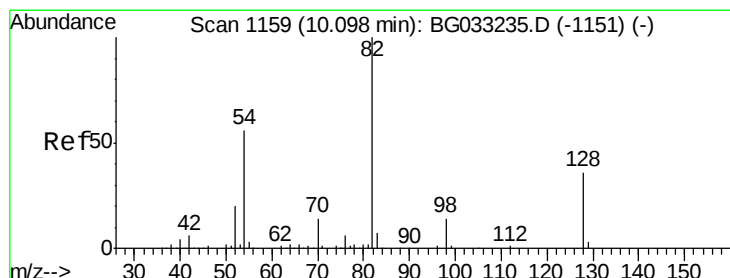
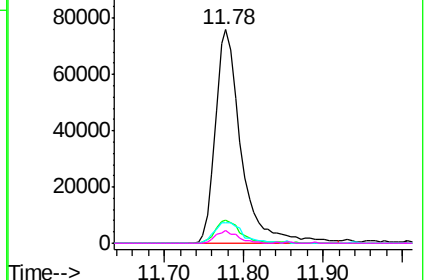
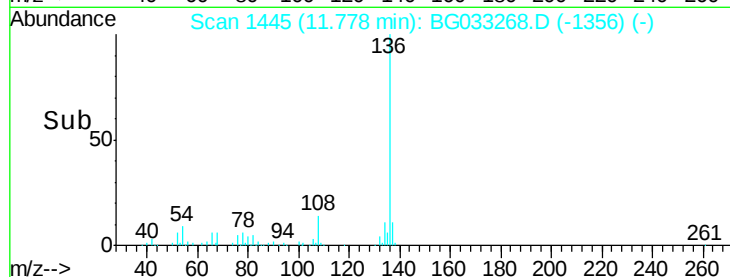


Abundance Ion 136.00 (135.70 to 136.70): E

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: 101.169 ng

RT: 10.09 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

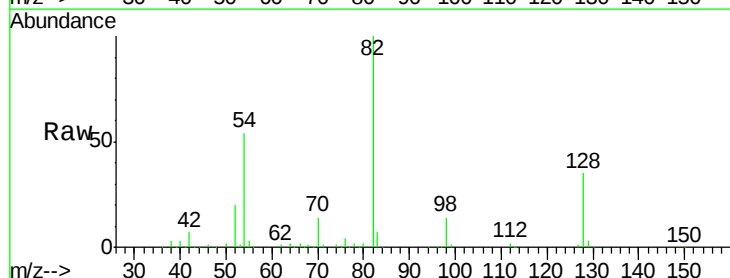
Tgt Ion: 82 Resp: 377509

Ion Ratio Lower Upper

82 100

128 35.3 29.7 44.5

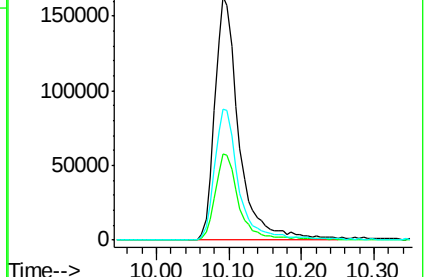
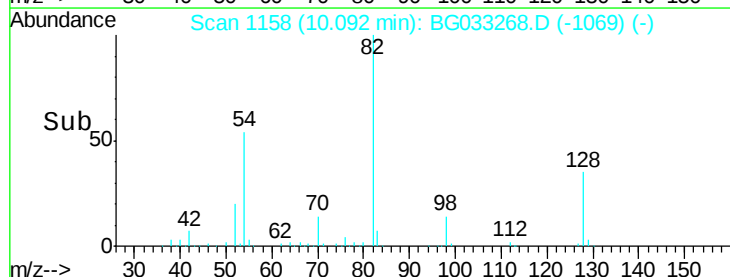
54 54.0 43.1 64.7

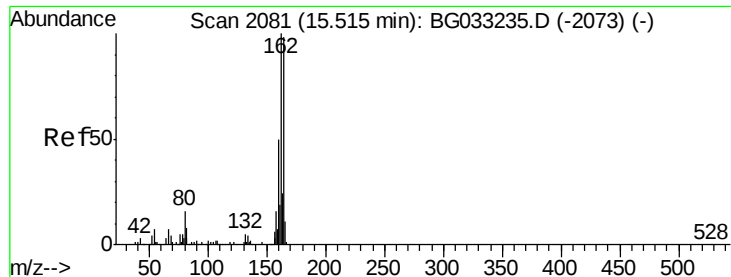


Abundance Ion 82.00 (81.70 to 82.70): BGC

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: 15.51 min Scan# 2080

Delta R.T. -0.01 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

Instrument :

BNA\_G

ClientSampled :

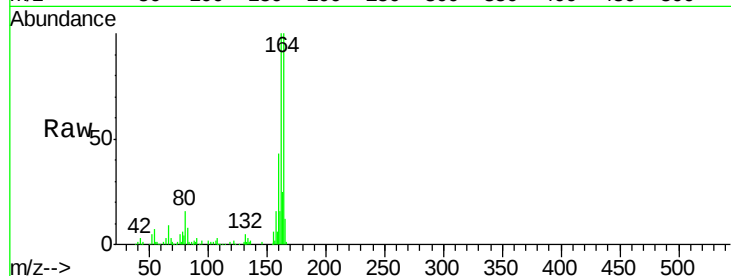
Tot Ion:164 Resp: 129103

Ion Ratio Lower Upper

164 100

162 100.3 78.8 118.2

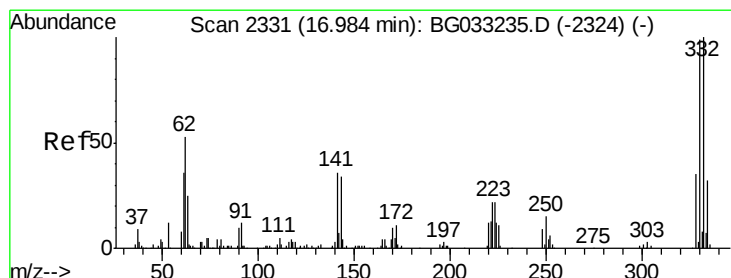
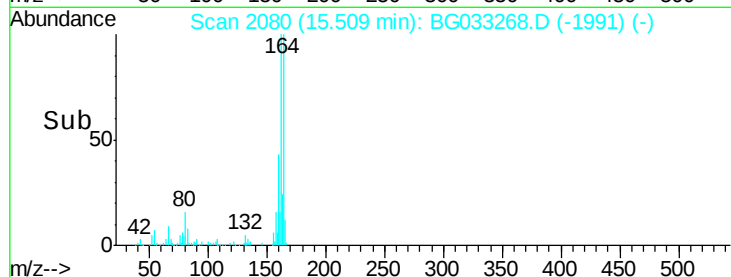
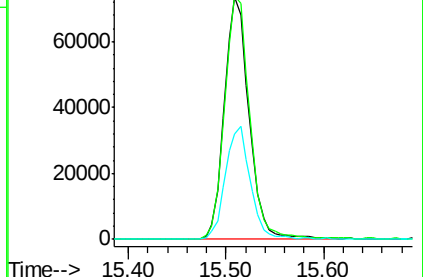
160 43.5 35.4 53.0



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



#41

2,4,6-Tribromophenol

Concen: 150.172 ng

RT: 16.98 min Scan# 2331

Delta R.T. 0.00 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

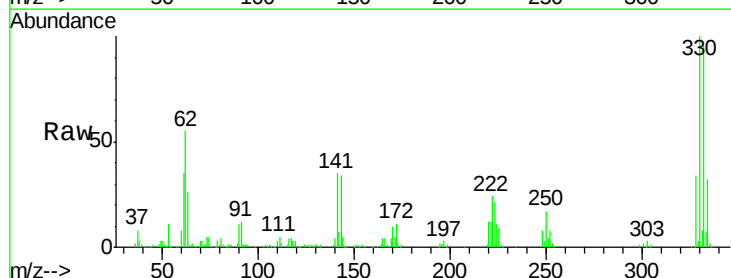
Tgt Ion:330 Resp: 289965

Ion Ratio Lower Upper

330 100

332 94.8 77.0 115.6

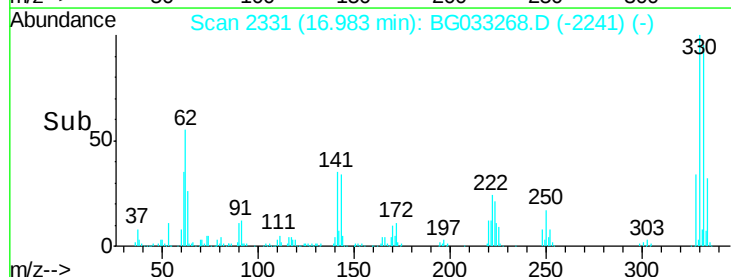
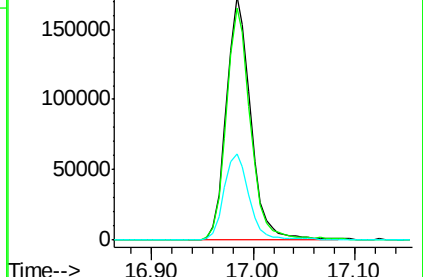
141 36.6 25.2 37.8

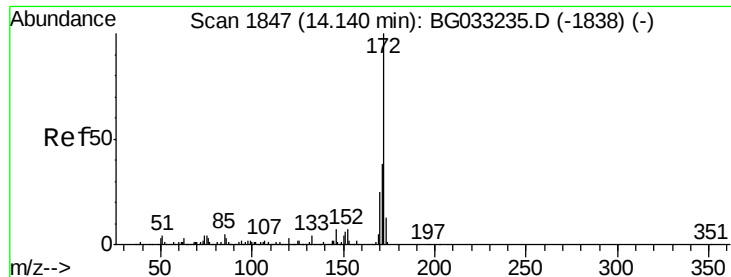


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

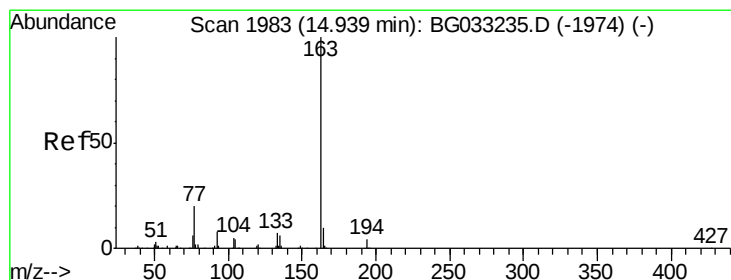
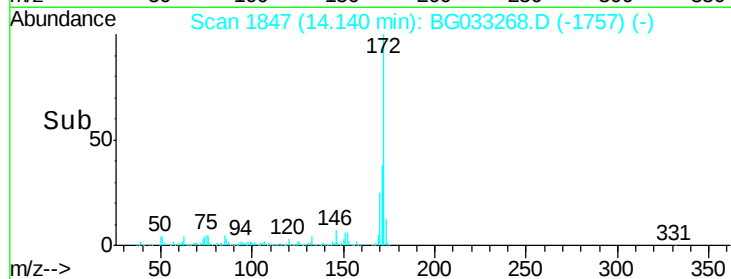
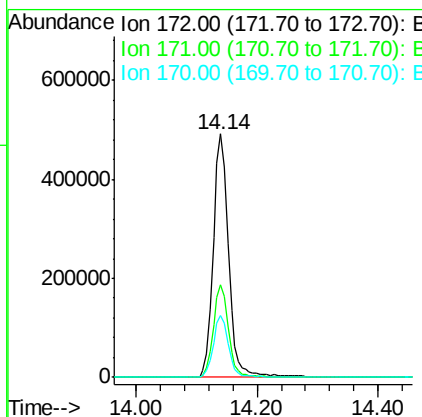
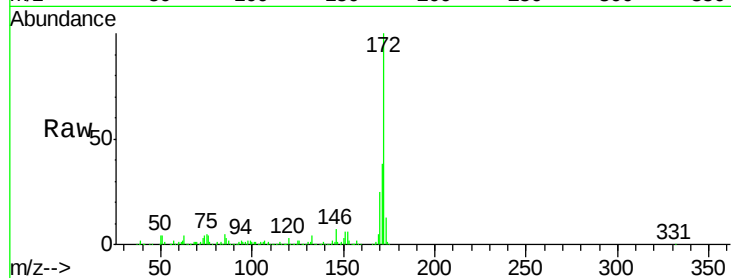




#44  
2-Fluorobiphenyl  
Concen: 97.020 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. 0.00 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

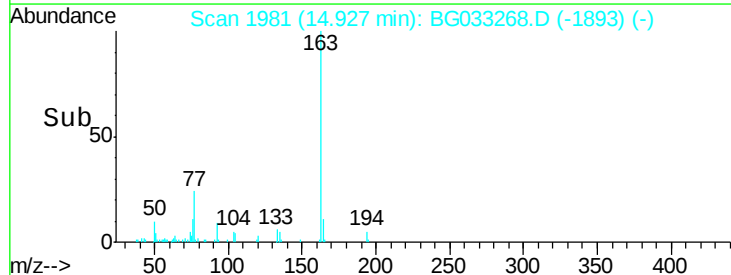
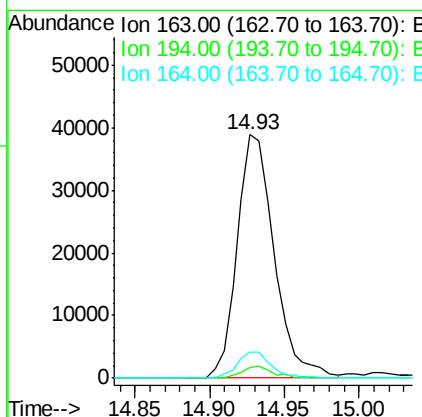
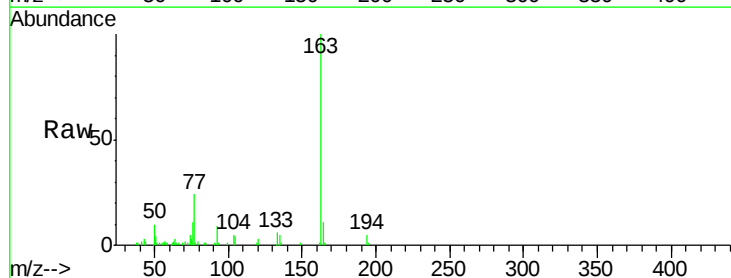
Instrument :  
BNA\_G  
ClientSampleId :

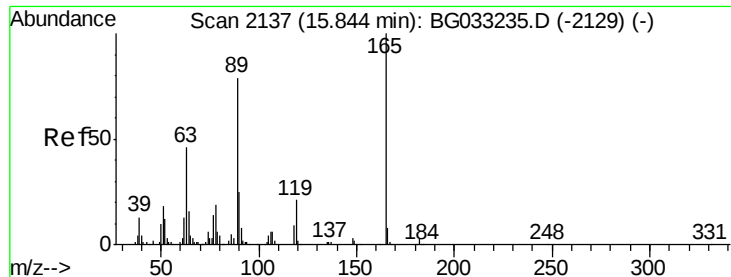
Tot Ion:172 Resp: 867644  
Ion Ratio Lower Upper  
172 100  
171 37.9 30.0 45.0  
170 25.2 19.5 29.3



#49  
Dimethylphthalate  
Concen: 5.983 ng  
RT: 14.93 min Scan# 1981  
Delta R.T. -0.01 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Tgt Ion:163 Resp: 67225  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.4 5.2  
164 10.7 8.2 12.4

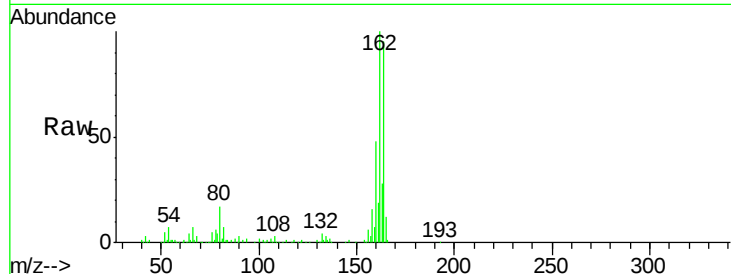




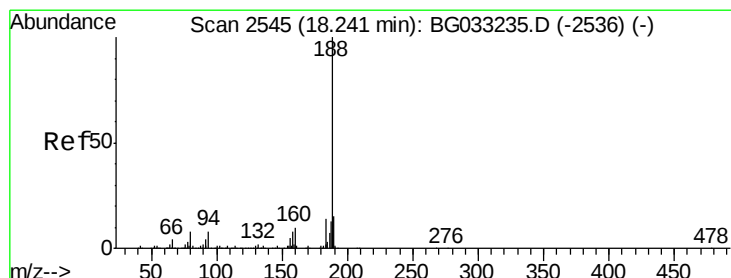
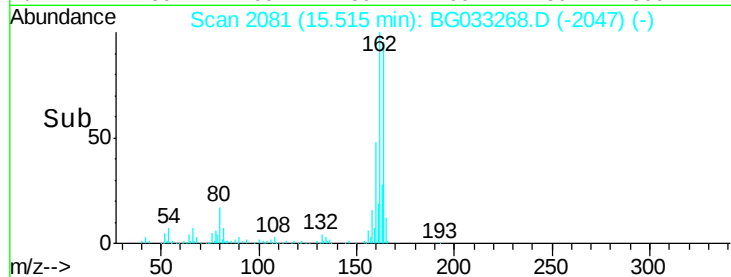
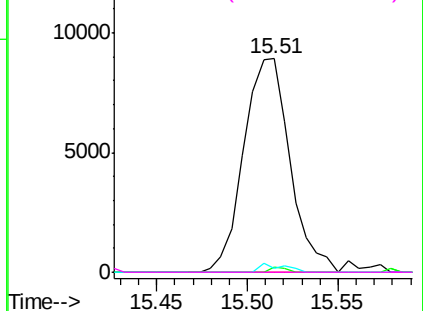
#56  
2,4-Dinitrotoluene  
Concen: 4.680 ng  
RT: 15.51 min Scan# 2081  
Delta R.T. -0.33 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 15829  
Ion Ratio Lower Upper  
165 100  
63 2.1 42.0 63.0#  
89 1.7 66.9 100.3#  
182 0.0 2.6 3.8#

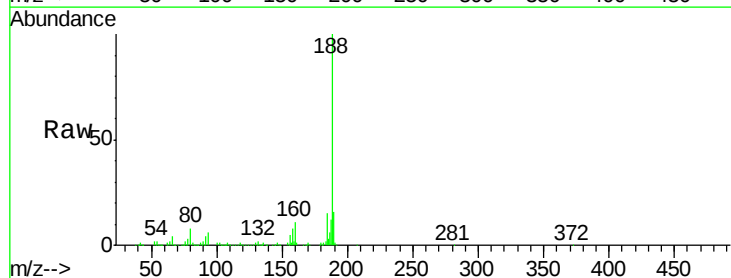


Abundance Ion 165.00 (164.70 to 165.70): E

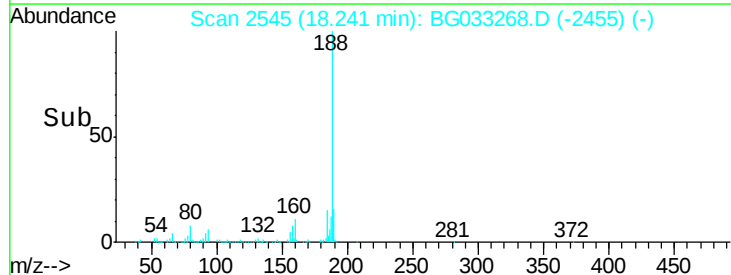
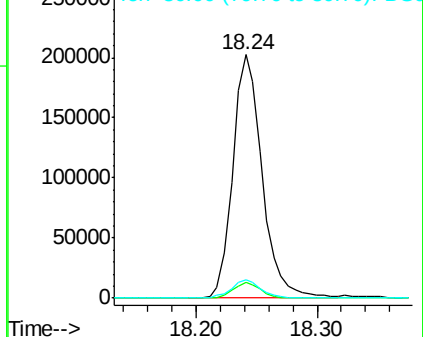


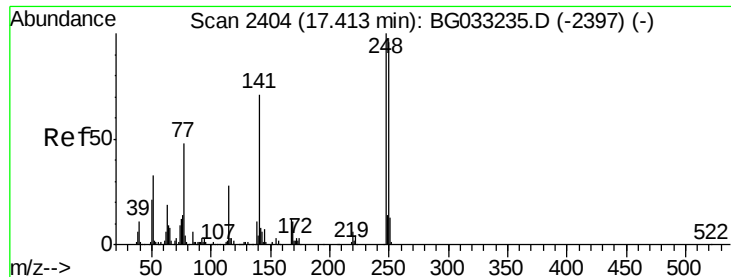
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.24 min Scan# 2545  
Delta R.T. 0.00 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Tgt Ion:188 Resp: 342389  
Ion Ratio Lower Upper  
188 100  
94 6.3 6.9 10.3#  
80 7.7 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E

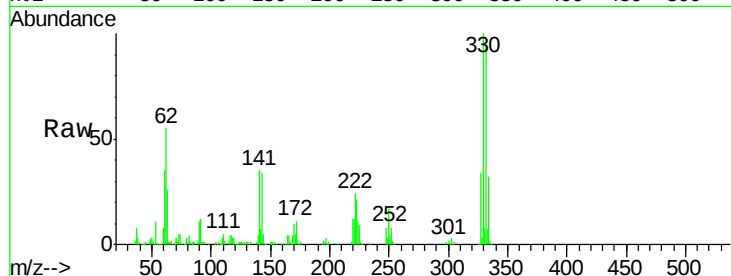




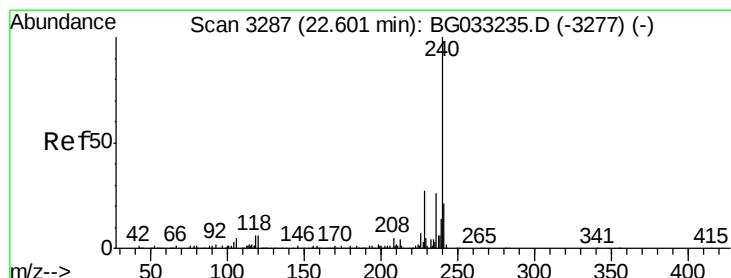
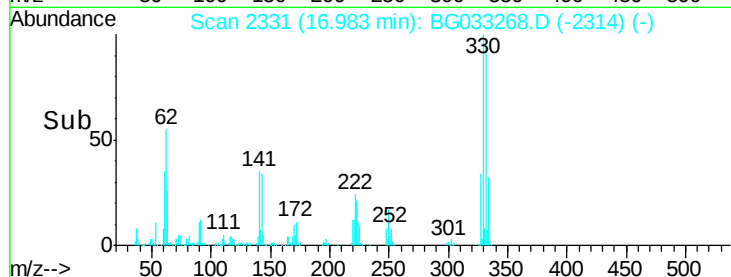
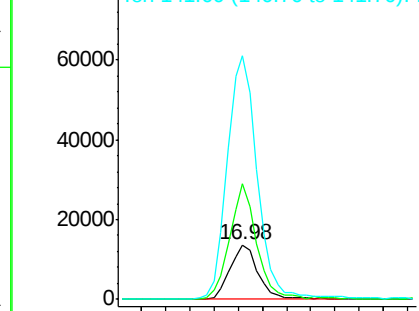
#66  
4-Bromophenyl-phenylether  
Concen: 5.527 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.43 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 22223  
Ion Ratio Lower Upper  
248 100  
250 211.7 77.1 115.7#  
141 448.3 50.8 76.2#

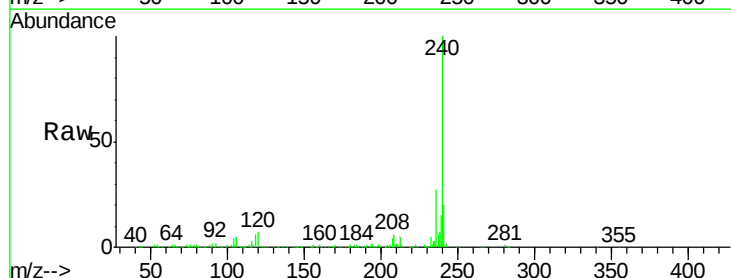


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

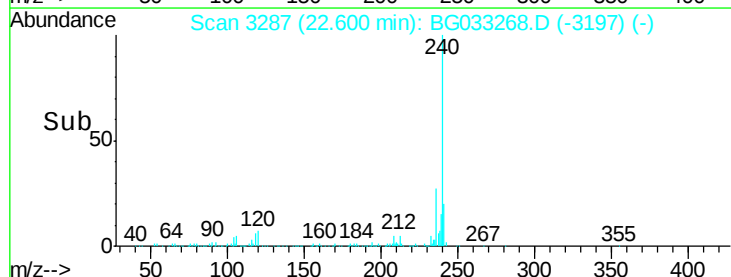
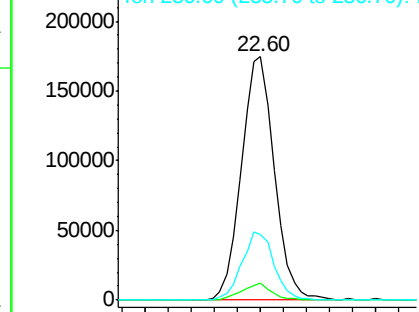


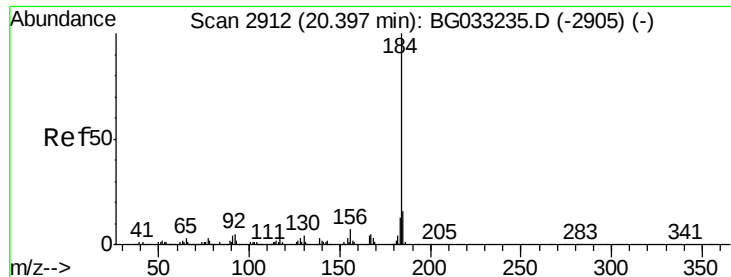
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.60 min Scan# 3287  
Delta R.T. 0.00 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Tgt Ion:240 Resp: 344822  
Ion Ratio Lower Upper  
240 100  
120 6.8 6.8 10.2  
236 27.0 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: 2.834 ng

RT: 20.76 min Scan# 2974

Delta R.T. 0.36 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

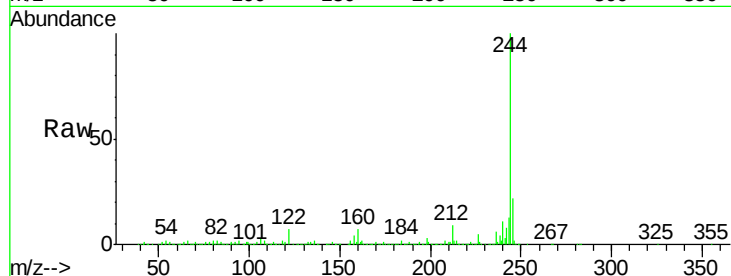
Tot Ion:184 Resp: 26499

Ion Ratio Lower Upper

184 100

185 17.4 11.1 16.7#

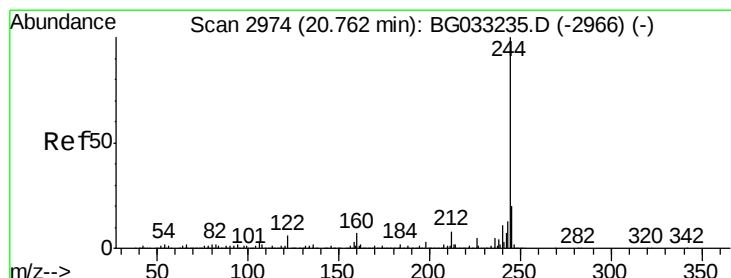
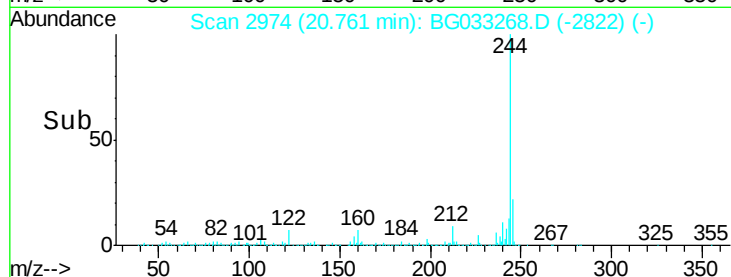
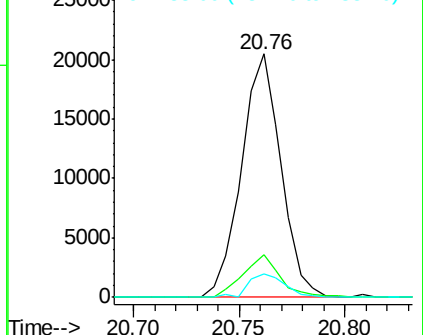
183 9.8 10.6 16.0#



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: 95.232 ng

RT: 20.76 min Scan# 2974

Delta R.T. 0.00 min

Lab File: BG033268.D

Acq: 20 Mar 2018 15:26

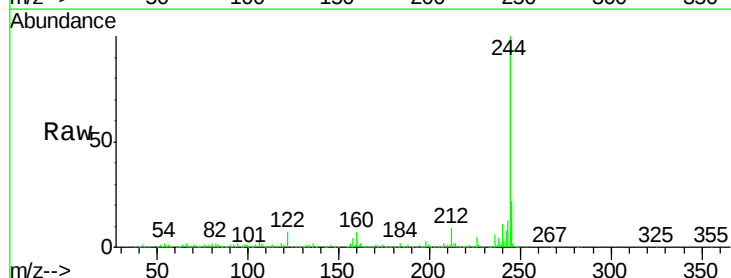
Tgt Ion:244 Resp: 1535487

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

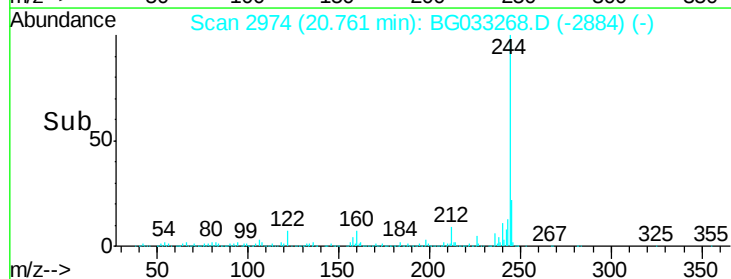
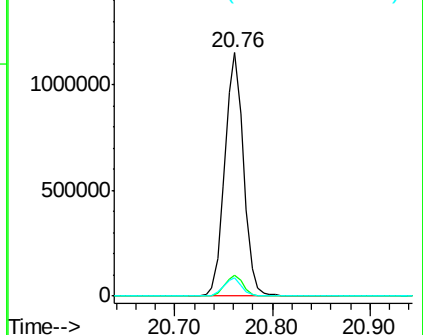
122 7.4 7.0 10.4

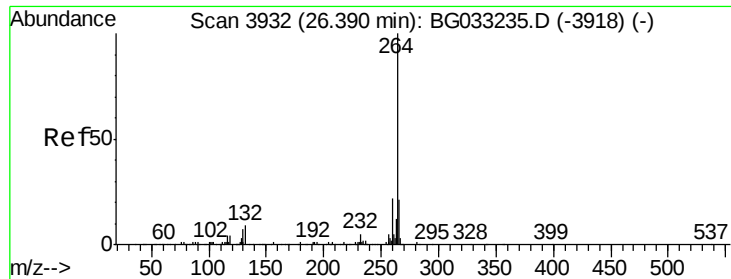


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

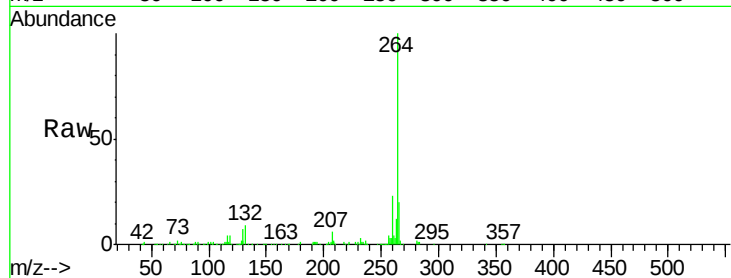




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.40 min Scan# 3933  
Delta R.T. 0.00 min  
Lab File: BG033268.D  
Acq: 20 Mar 2018 15:26

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 17.4  | 26.0  |
| 265     | 20.2  | 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

