

Data Path : Z:\HPCHEM1\BNA G\DATA\BG040318\  
 Data File : BG033541.D  
 Acq On : 4 Apr 2018 2:36  
 Operator : SJ/JU  
 Sample : J1757-10  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 04 04:37:25 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 03 14:50:26 2018  
 Response via : Initial Calibration

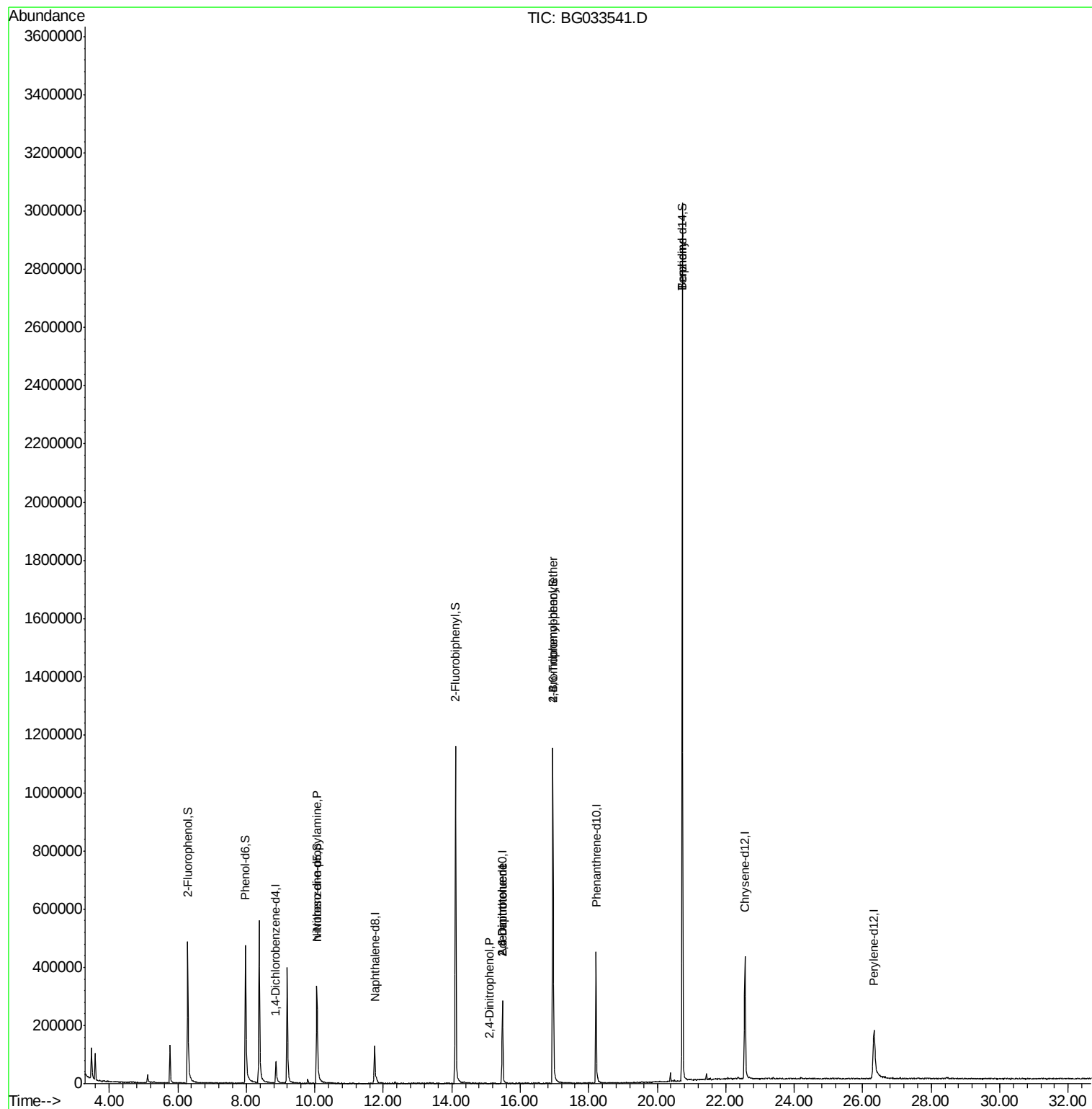
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.86  | 152  | 28718    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.75 | 136  | 128863   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.48 | 164  | 109937   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 317692   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.56 | 240  | 336499   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.33 | 264  | 306409   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 249444   | 162.87 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.98  | 99   | 343131   | 130.39 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 273465   | 97.50  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 231333   | 140.69 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.11 | 172  | 678316   | 89.07  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.73 | 244  | 1465404  | 93.13  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.06 | 70   | 35455    | 18.387 | ng    | # 83     |
| 50) 2,6-Dinitrotoluene         | 15.48 | 165  | 14687    | 7.508  | ng    | # 22     |
| 53) 2,4-Dinitrophenol          | 15.10 | 184  | 96       | 7.729  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 14687    | 5.099  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 18248    | 4.891  | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 25387    | 2.782  | ng    | # 88     |

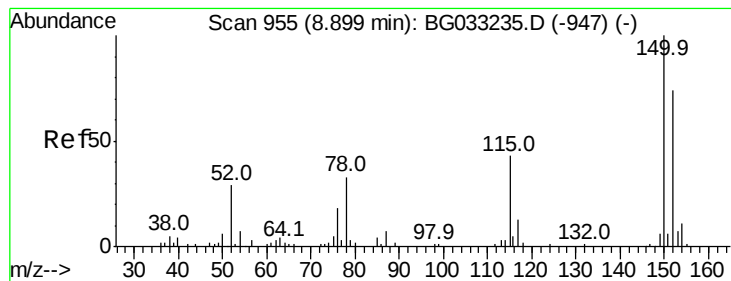
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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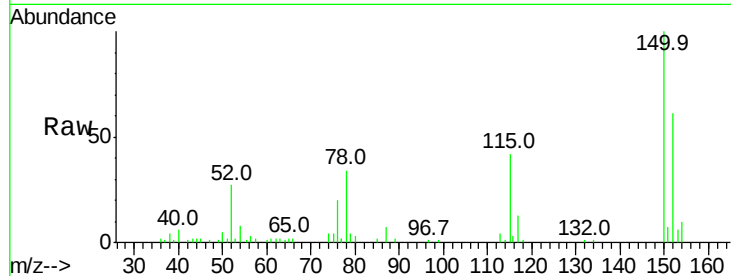


#1

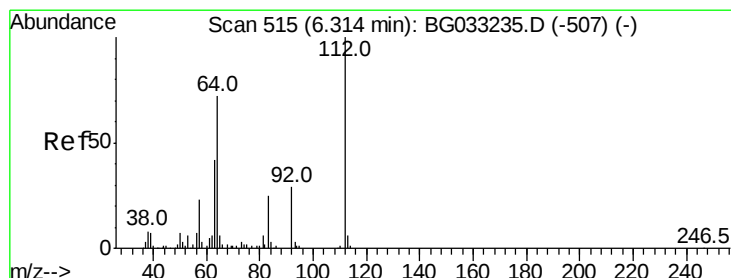
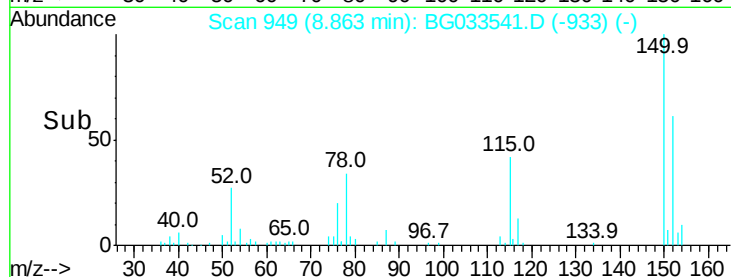
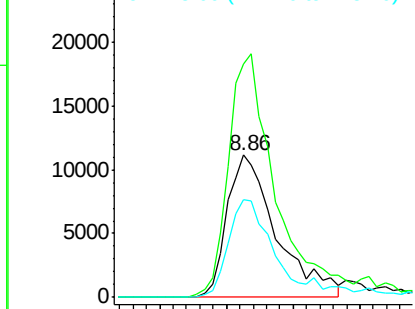
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.86 min Scan# 949  
Delta R.T. -0.01 min  
Lab File: BG033541.D  
Acq: 4 Apr 2018 2:36

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 28718  
Ion Ratio Lower Upper  
152 100  
150 164.7 126.6 189.8  
115 68.7 53.0 79.4



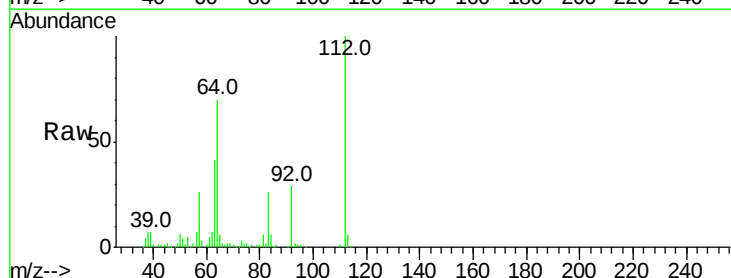
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



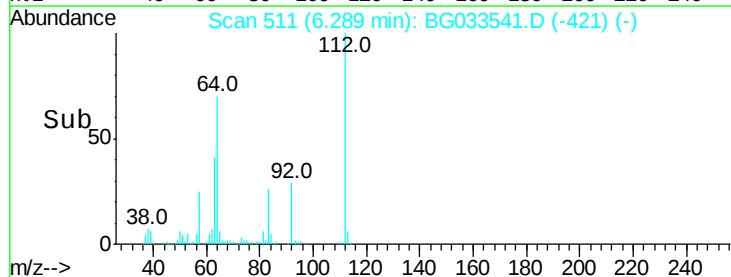
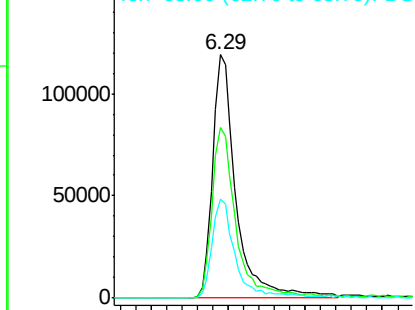
#5

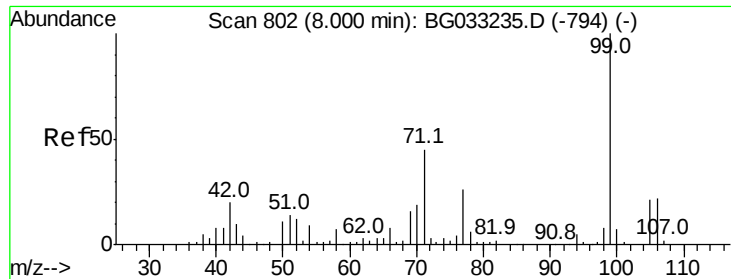
2-Fluorophenol  
Concen: 162.873 ng  
RT: 6.29 min Scan# 511  
Delta R.T. -0.00 min  
Lab File: BG033541.D  
Acq: 4 Apr 2018 2:36

Tgt Ion:112 Resp: 249444  
Ion Ratio Lower Upper  
112 100  
64 70.0 56.3 84.5  
63 40.9 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: 130.395 ng

RT: 7.98 min Scan# 798

Delta R.T. -0.01 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

Instrument :

BNA\_G

ClientSampleId :

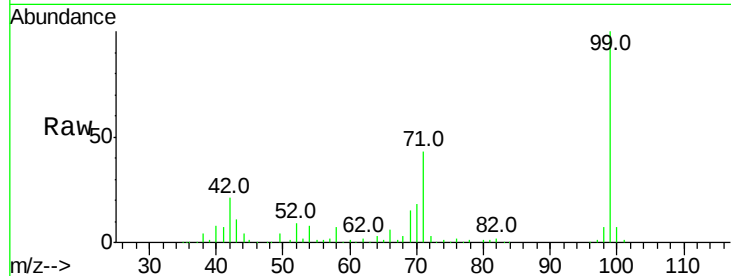
Tot Ion: 99 Resp: 343131

Ion Ratio Lower Upper

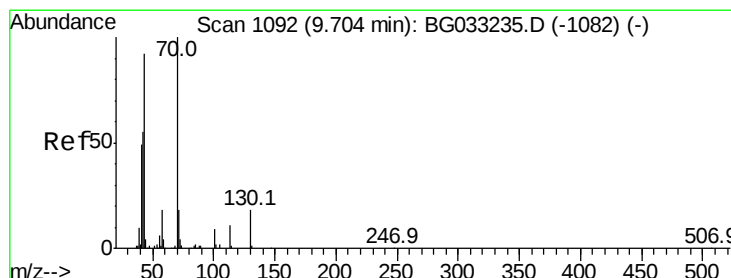
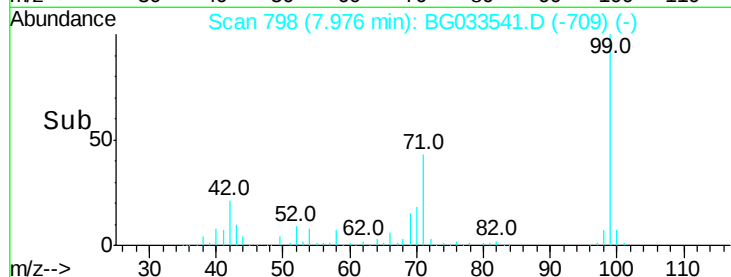
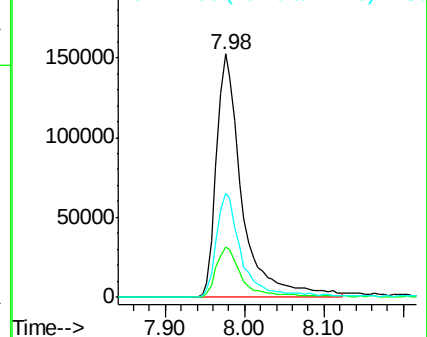
99 100

42 20.8 14.1 21.1

71 42.8 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: 18.387 ng

RT: 10.06 min Scan# 1153

Delta R.T. 0.39 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

Tgt Ion: 70 Resp: 35455

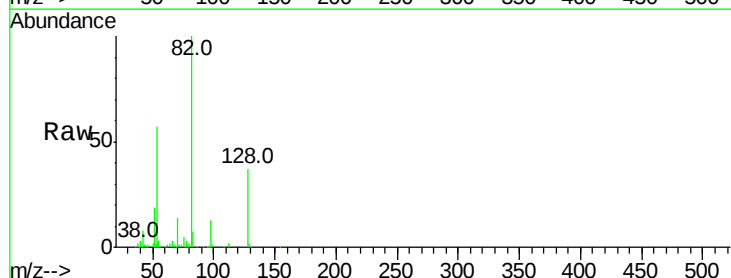
Ion Ratio Lower Upper

70 100

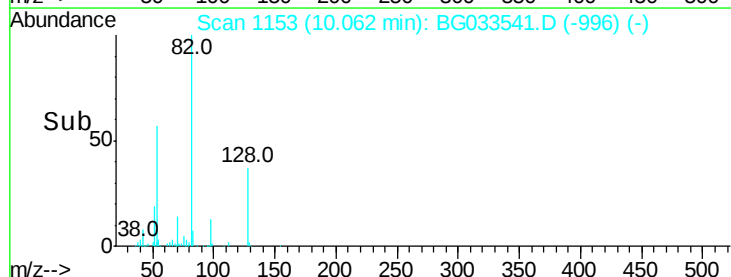
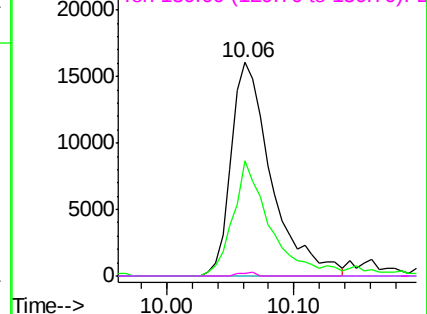
42 53.9 49.1 73.7

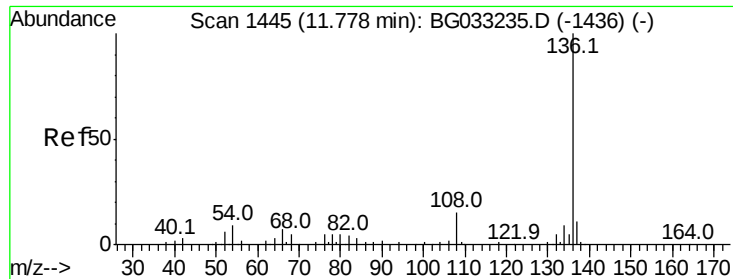
101 0.0 8.5 12.7#

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: 11.75 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 128863

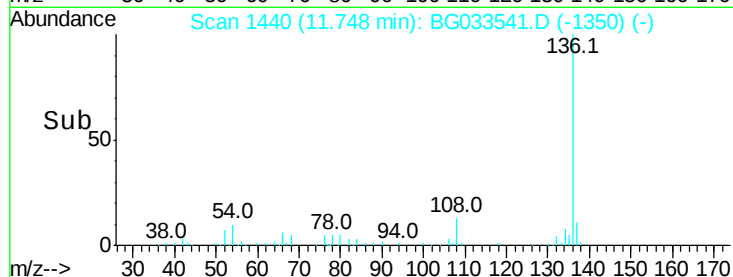
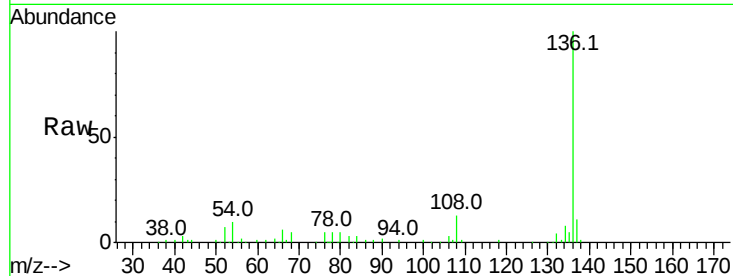
Ion Ratio Lower Upper

136 100

137 11.3 9.2 13.8

54 10.5 10.3 15.5

68 4.7 4.5 6.7

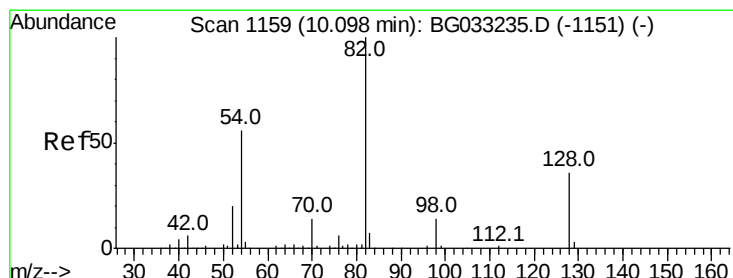
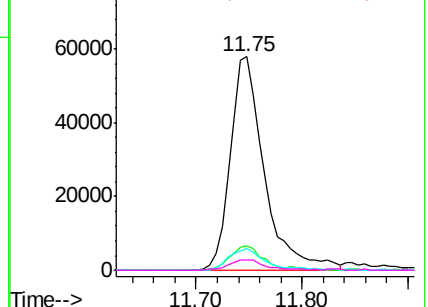


Abundance Ion 136.00 (135.70 to 136.70): E

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: 97.500 ng

RT: 10.06 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

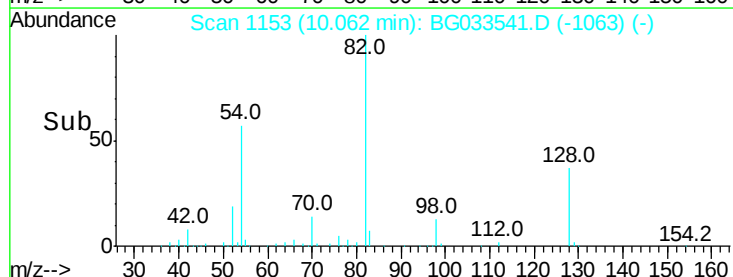
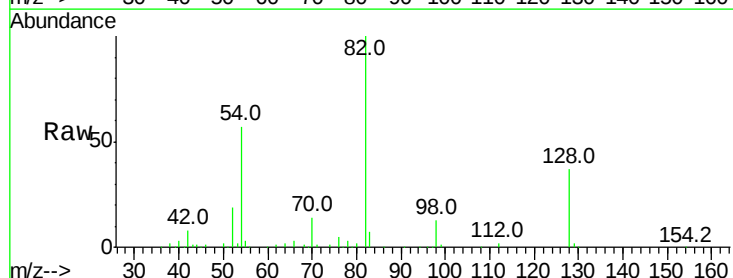
Tgt Ion: 82 Resp: 273465

Ion Ratio Lower Upper

82 100

128 36.7 29.7 44.5

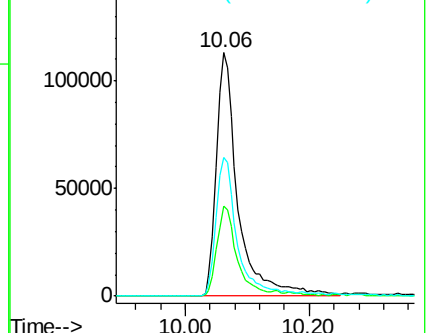
54 56.9 43.1 64.7

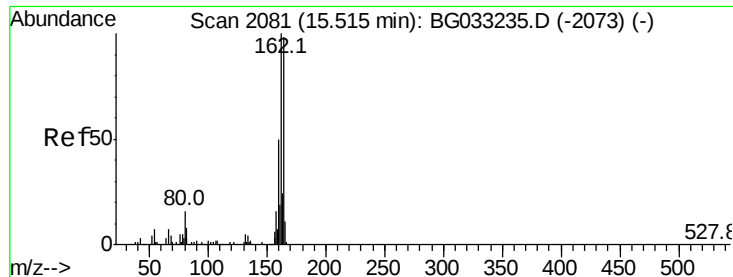


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

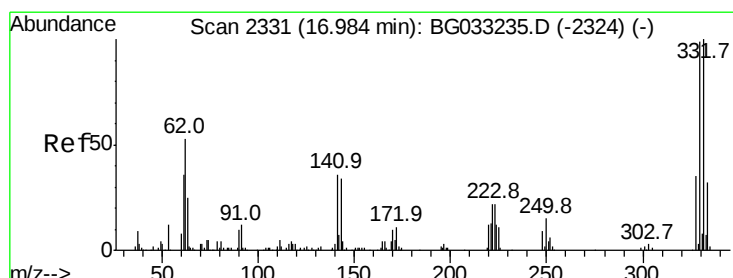
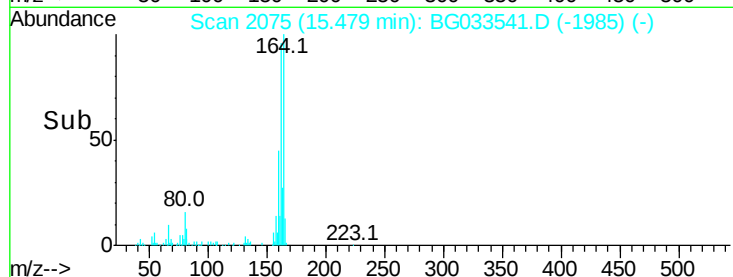
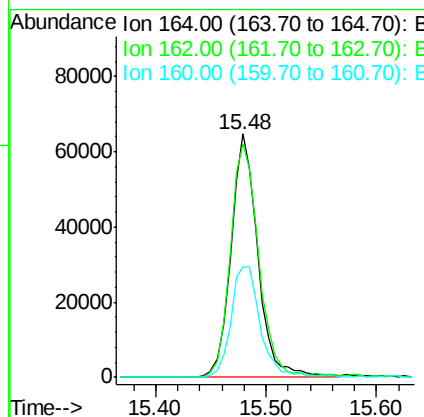
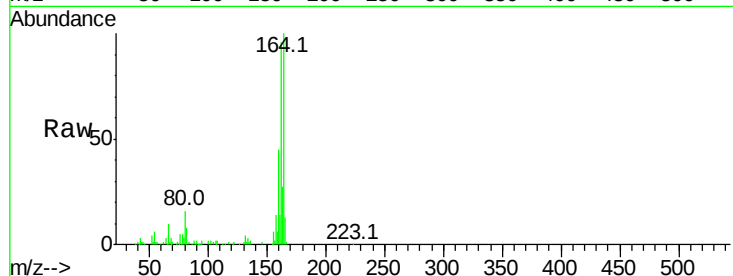




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.48 min Scan# 2075  
 Delta R.T. -0.00 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

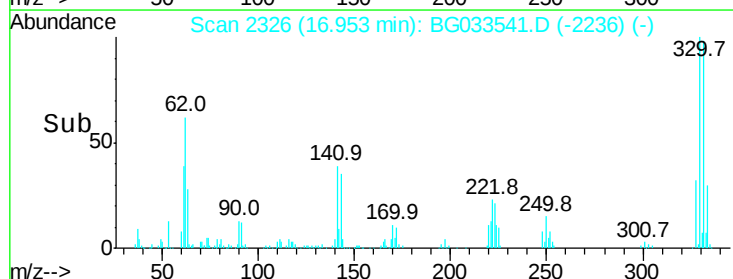
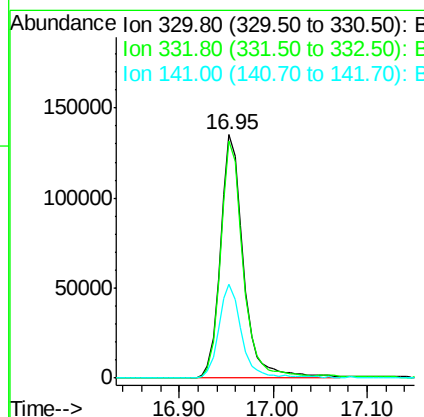
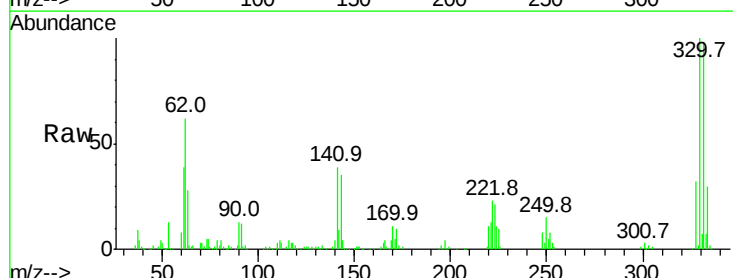
Instrument :  
 BNA\_G  
 ClientSampleId :

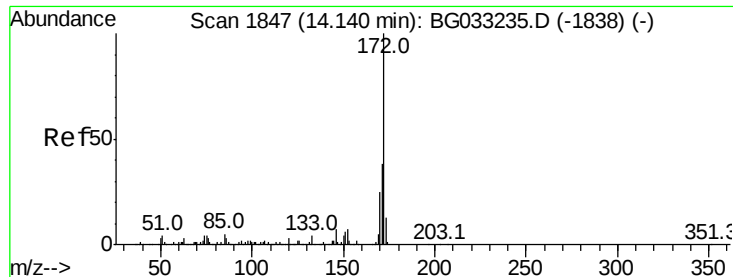
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.7  | 78.8  | 118.2 |
| 160     | 45.3  | 35.4  | 53.0  |



#41  
 2,4,6-Tribromophenol  
 Concen: 140.693 ng  
 RT: 16.95 min Scan# 2326  
 Delta R.T. -0.00 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.0  | 115.6 |
| 141     | 37.8  | 25.2  | 37.8  |

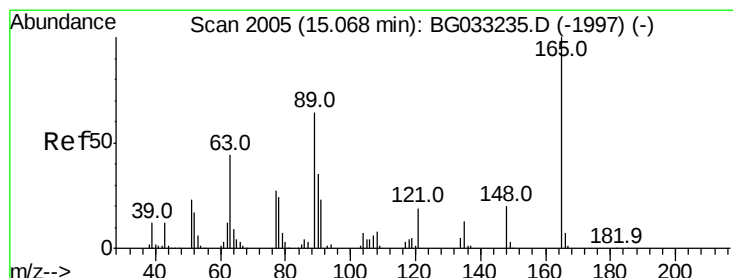
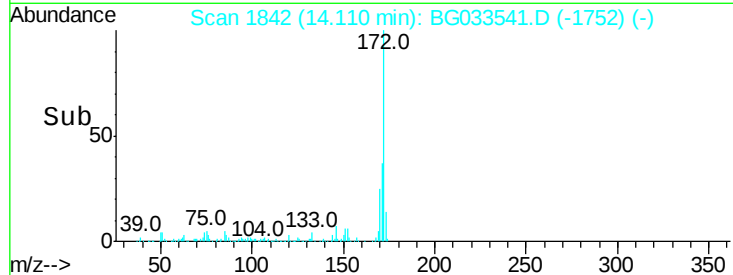
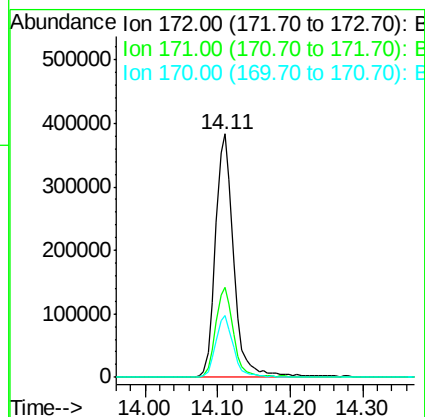
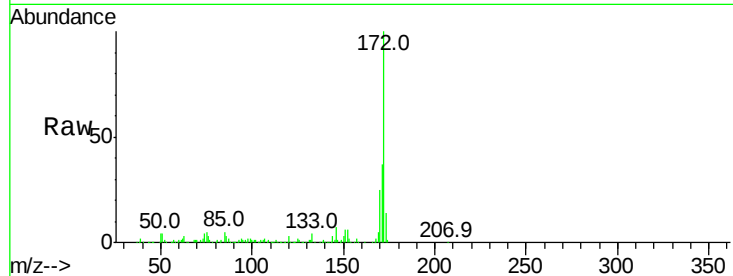




#44  
 2-Fluorobiphenyl  
 Concen: 89.073 ng  
 RT: 14.11 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

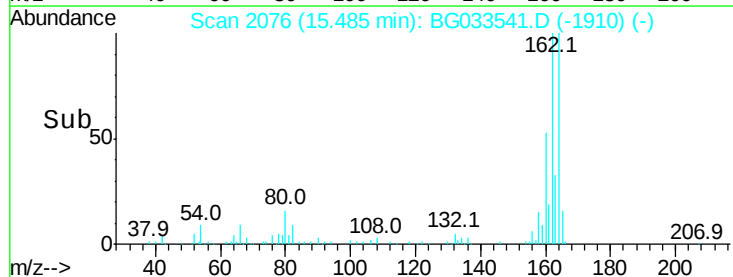
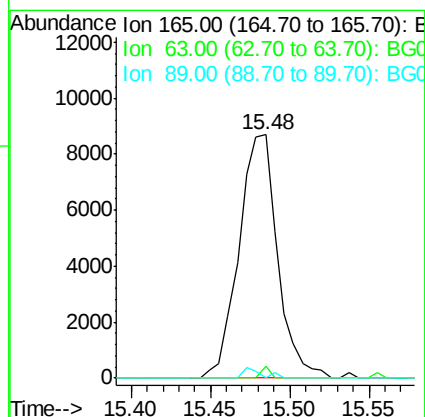
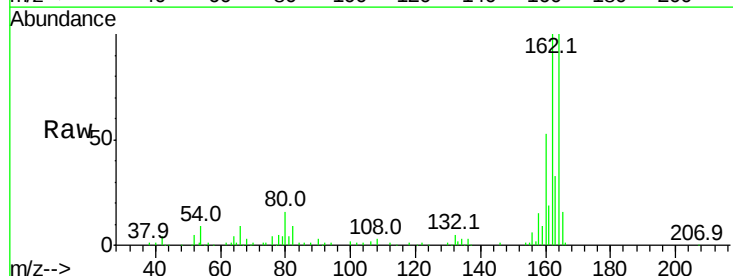
Instrument :  
 BNA\_G  
 ClientSampled :

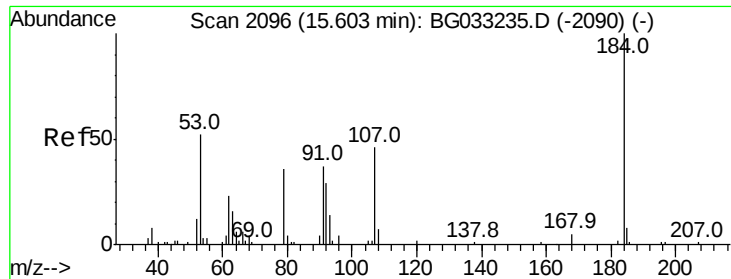
Tot Ion:172 Resp: 678316  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 30.0 45.0  
 170 25.2 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.508 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. 0.45 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

Tgt Ion:165 Resp: 14687  
 Ion Ratio Lower Upper  
 165 100  
 63 5.0 52.7 79.1#  
 89 0.0 49.2 73.8#

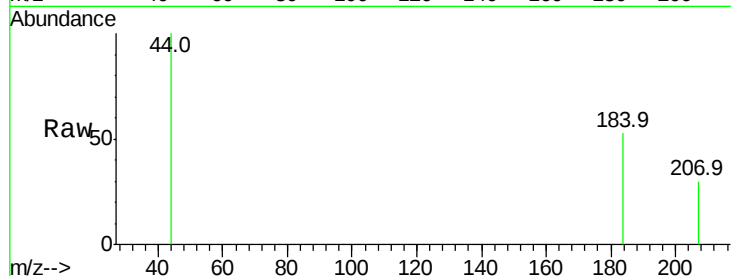




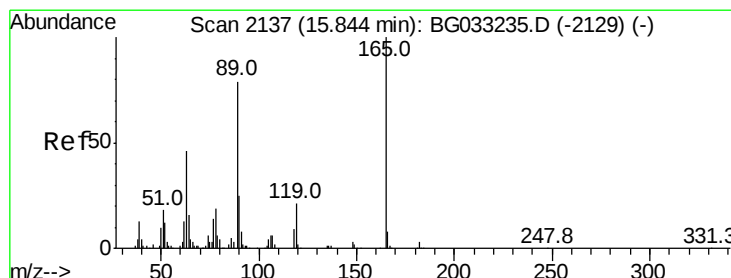
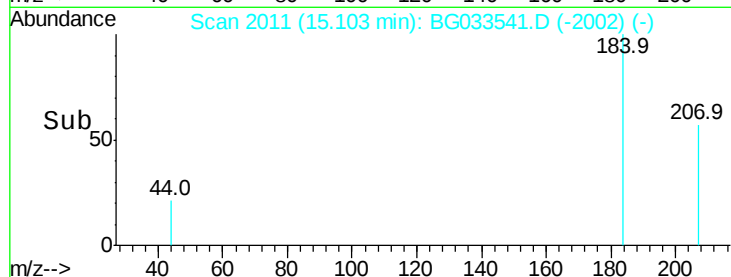
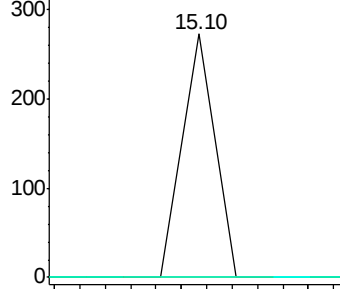
#53  
 2,4-Dinitrophenol  
 Concen: 7.729 ng  
 RT: 15.10 min Scan# 2011  
 Delta R.T. -0.48 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:184 Resp: 96  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#

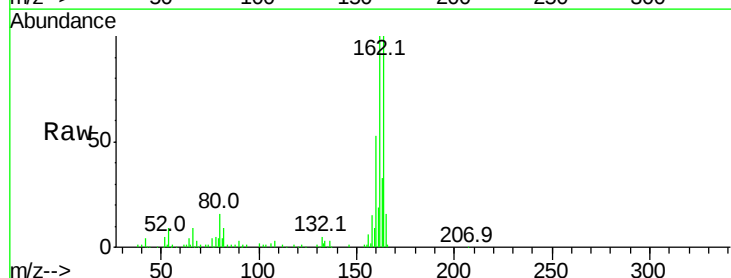


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 154.00 (153.70 to 154.70): E

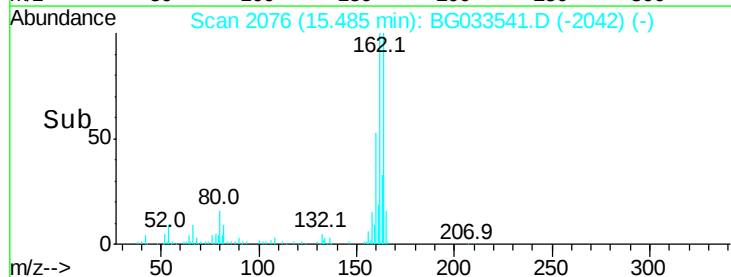
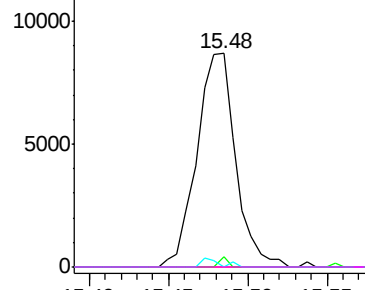


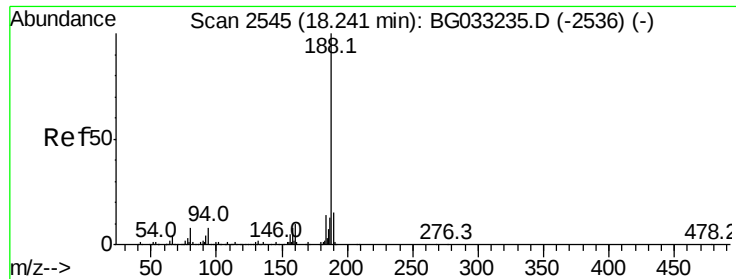
#56  
 2,4-Dinitrotoluene  
 Concen: 5.099 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. -0.33 min  
 Lab File: BG033541.D  
 Acq: 4 Apr 2018 2:36

Tgt Ion:165 Resp: 14687  
 Ion Ratio Lower Upper  
 165 100  
 63 5.0 42.0 63.0#  
 89 0.0 66.9 100.3#  
 182 0.0 2.6 3.8#



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

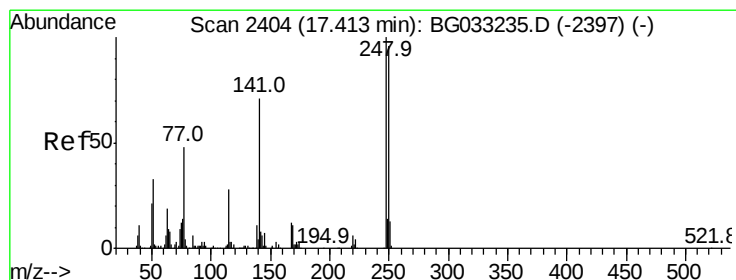
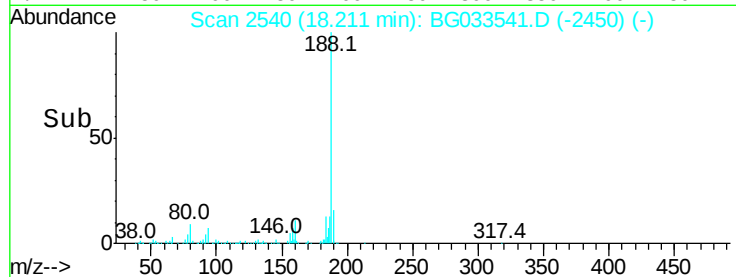
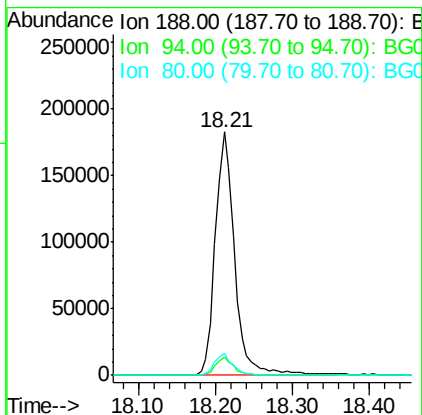
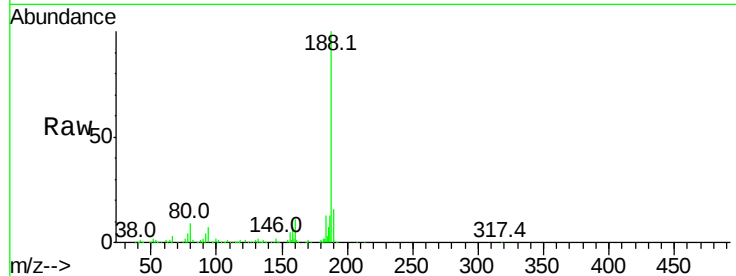




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.21 min Scan# 2540  
Delta R.T. -0.00 min  
Lab File: BG033541.D  
Acq: 4 Apr 2018 2:36

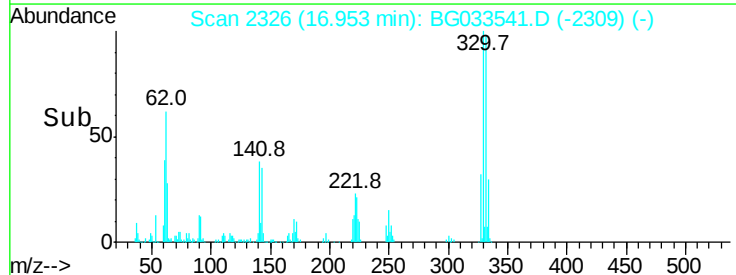
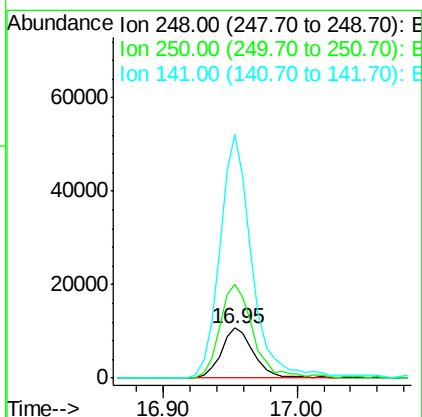
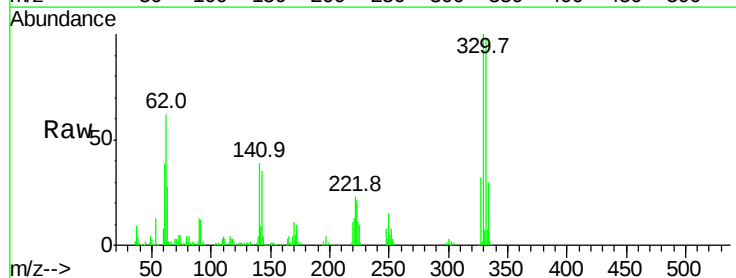
Instrument :  
BNA\_G  
ClientSampleId :

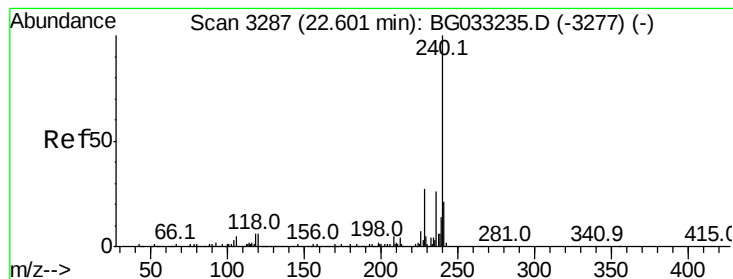
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.3   | 6.9   | 10.3  |
| 80      | 9.2   | 7.7   | 11.5  |



#66  
4-Bromophenyl-phenylether  
Concen: 4.891 ng  
RT: 16.95 min Scan# 2326  
Delta R.T. -0.43 min  
Lab File: BG033541.D  
Acq: 4 Apr 2018 2:36

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 188.5 | 77.1  | 115.7# |
| 141     | 489.6 | 50.8  | 76.2#  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.56 min Scan# 3280

Delta R.T. 0.01 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

Instrument :

BNA\_G

ClientSampleId :

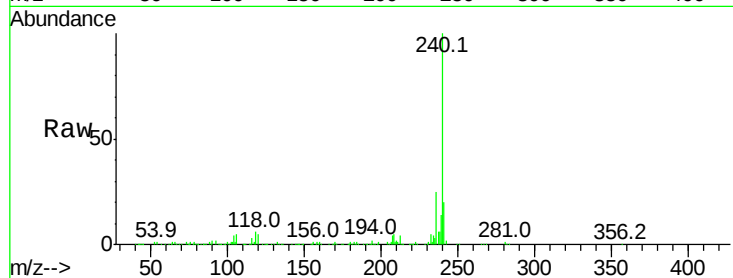
Tot Ion:240 Resp: 336499

Ion Ratio Lower Upper

240 100

120 5.2 6.8 10.2#

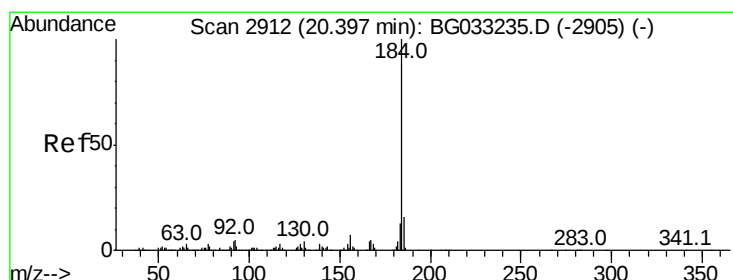
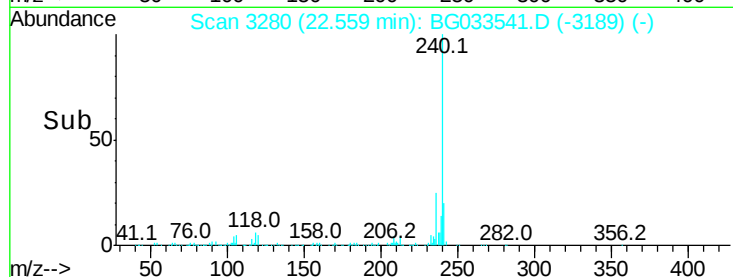
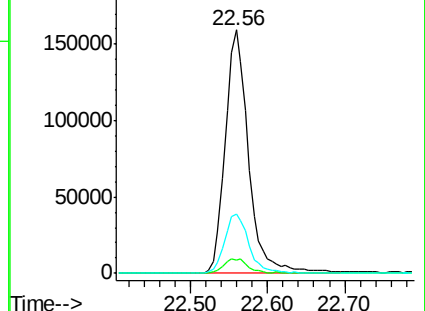
236 24.5 20.9 31.3



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: 2.782 ng

RT: 20.73 min Scan# 2969

Delta R.T. 0.36 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

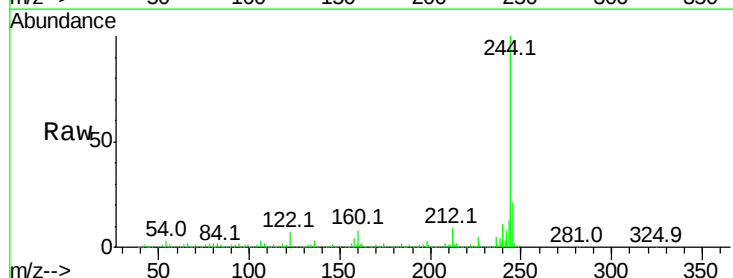
Tgt Ion:184 Resp: 25387

Ion Ratio Lower Upper

184 100

185 17.7 11.1 16.7#

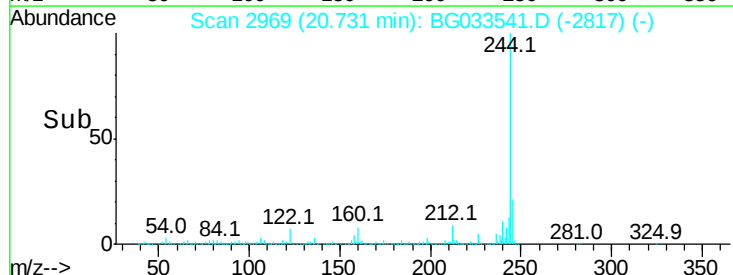
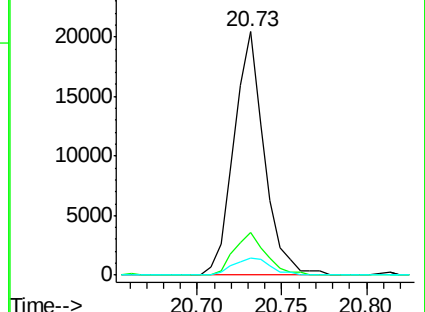
183 7.2 10.6 16.0#

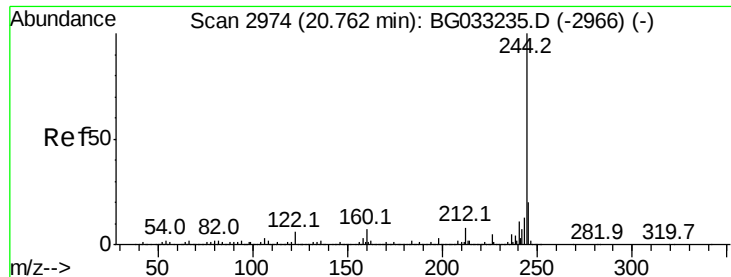


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 93.133 ng

RT: 20.73 min Scan# 2969

Delta R.T. -0.00 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

Instrument :

BNA\_G

ClientSampled :

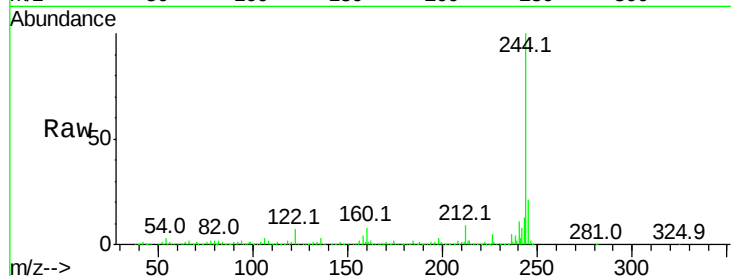
Tot Ion:244 Resp: 1465404

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.8

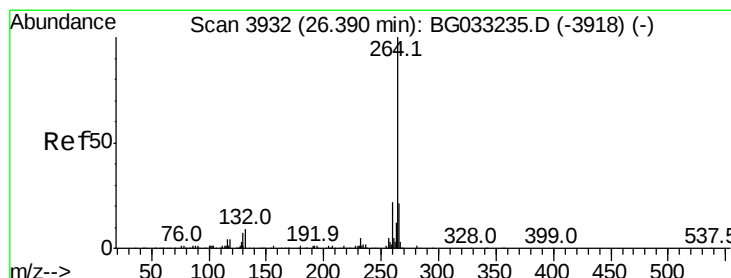
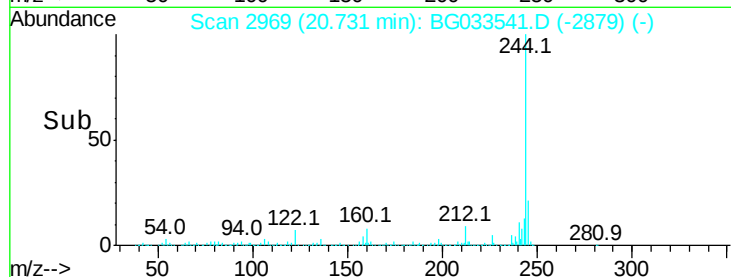
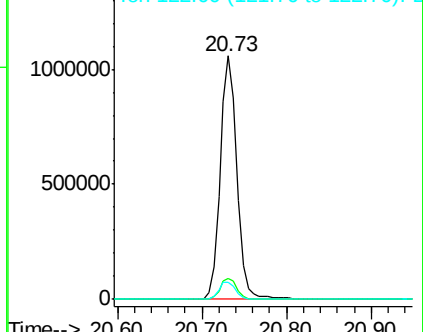
122 7.3 7.0 10.4



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: 20.000 ng

RT: 26.33 min Scan# 3922

Delta R.T. 0.01 min

Lab File: BG033541.D

Acq: 4 Apr 2018 2:36

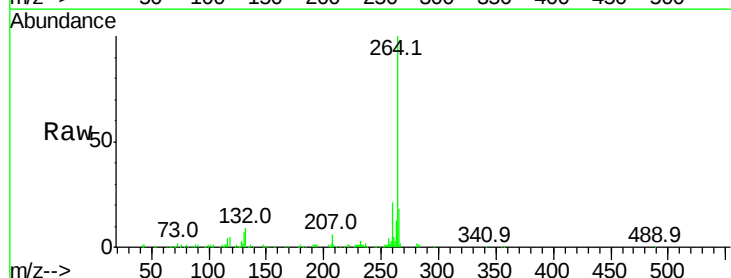
Tgt Ion:264 Resp: 306409

Ion Ratio Lower Upper

264 100

260 21.4 17.4 26.0

265 18.1 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

