

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041018\  
 Data File : BG033721.D  
 Acq On : 10 Apr 2018 19:54  
 Operator : SJ/JU  
 Sample : J2283-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 11 03:18:03 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 10 16:51:36 2018  
 Response via : Initial Calibration

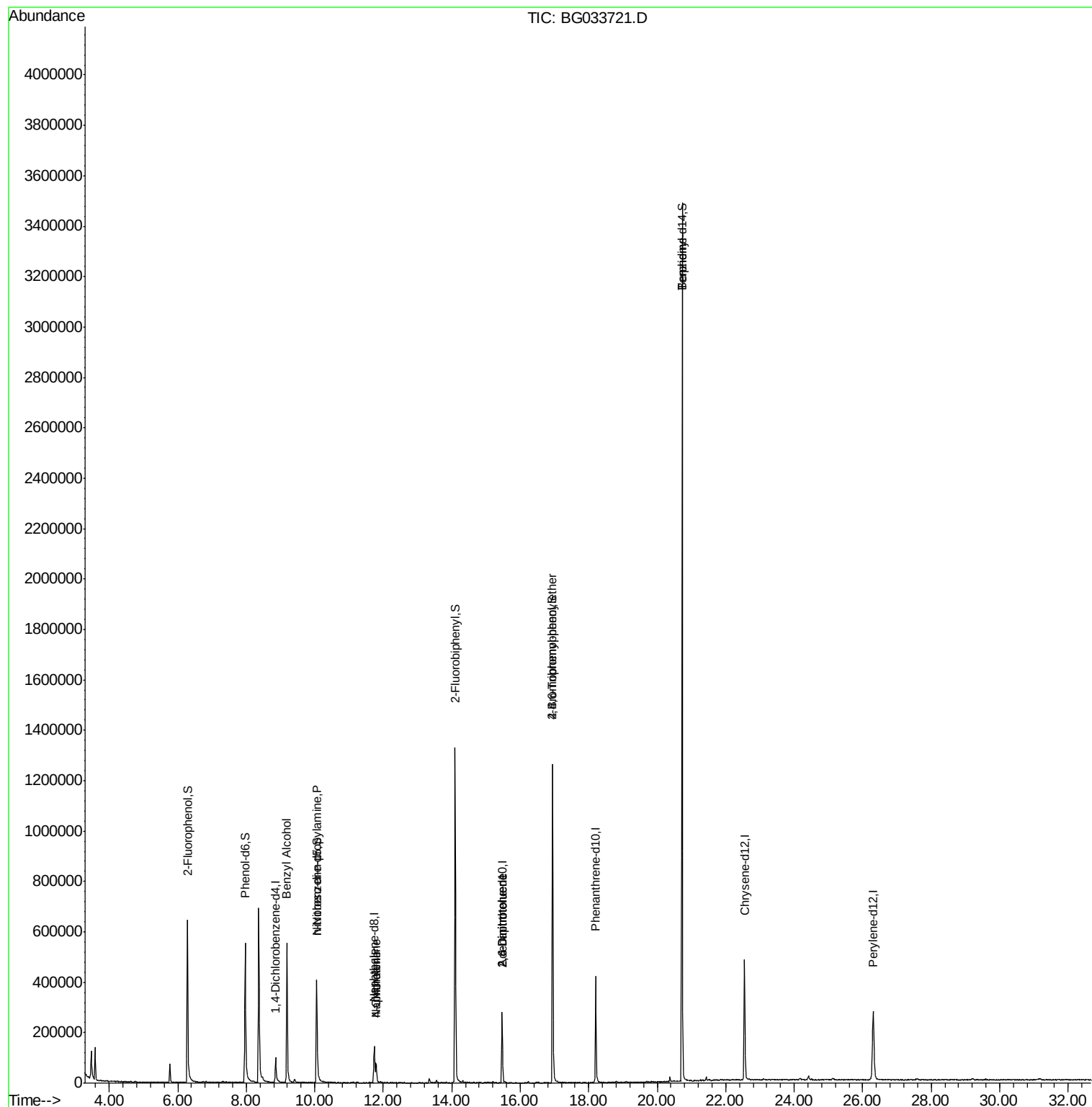
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.86  | 152  | 35224    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.74 | 136  | 144342   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.47 | 164  | 104233   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.20 | 188  | 295203   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 341127   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.31 | 264  | 368634   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 302633   | 161.10 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.97  | 99   | 394613   | 122.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 331809   | 105.61 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 258199   | 165.63 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 736384   | 101.99 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.73 | 244  | 1739261  | 109.04 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.18  | 79   | 5663     | 2.228  | ng    | # 51     |
| 19) n-Nitroso-di-n-propylamine | 10.05 | 70   | 44385    | 18.767 | ng    | # 78     |
| 31) Naphthalene                | 11.79 | 128  | 77069    | 10.304 | ng    | # 97     |
| 33) 4-Chloroaniline            | 11.79 | 127  | 9216     | 2.750  | ng    | # 34     |
| 50) 2,6-Dinitrotoluene         | 15.47 | 165  | 12577    | 6.781  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 15.47 | 165  | 12577    | 4.605  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.94 | 248  | 20040    | 5.780  | ng    | # 1      |
| 76) Benzidine                  | 20.72 | 184  | 29026    | 3.138  | ng    | # 95     |

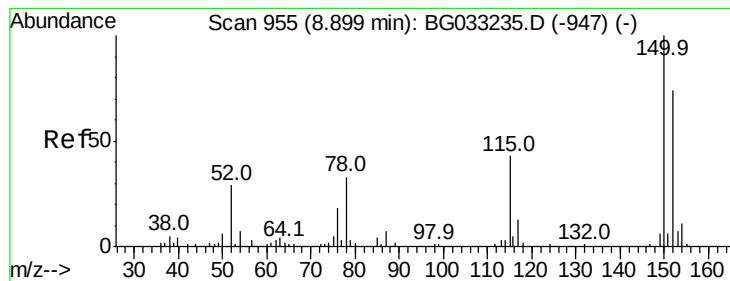
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041018\  
Data File : BG033721.D  
Acq On : 10 Apr 2018 19:54  
Operator : SJ/JU  
Sample : J2283-02  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 11 03:18:03 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 10 16:51:36 2018  
Response via : Initial Calibration



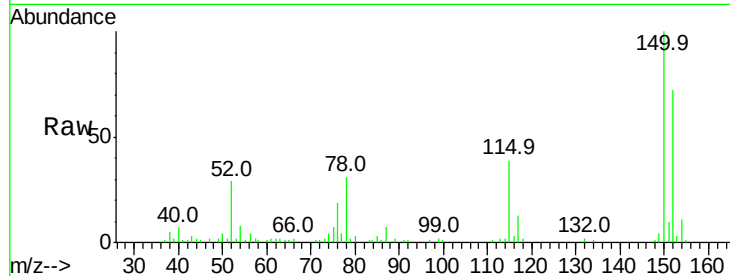


#1

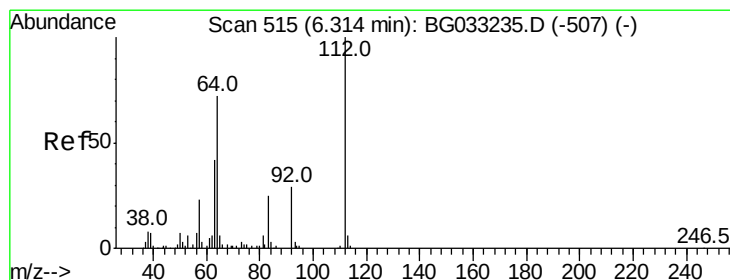
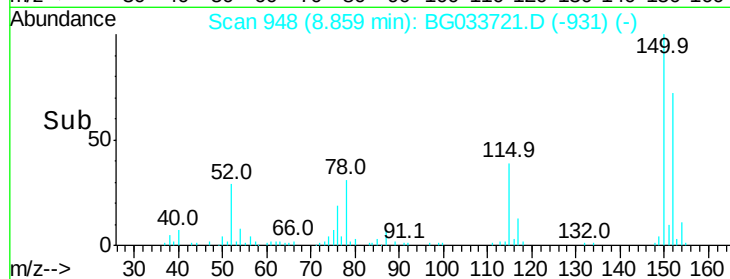
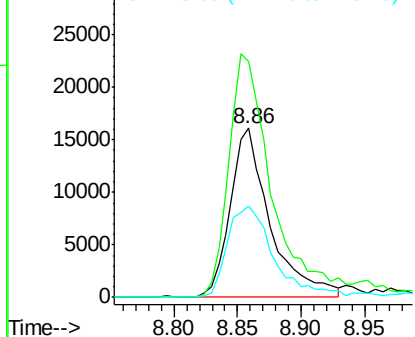
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.86 min Scan# 948  
Delta R.T. 0.00 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 35224  
Ion Ratio Lower Upper  
152 100  
150 139.7 126.6 189.8  
115 54.4 53.0 79.4



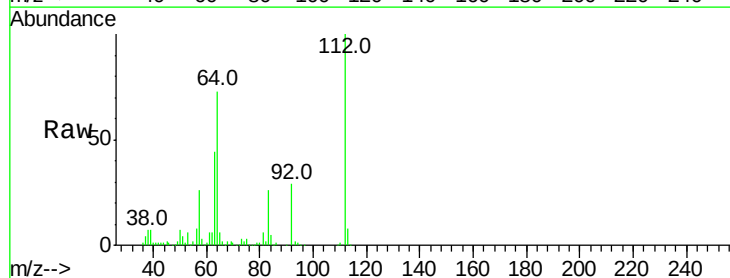
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



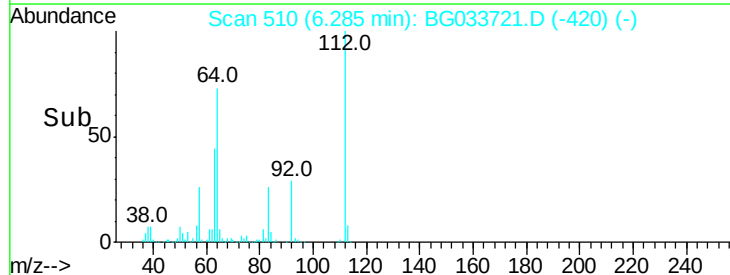
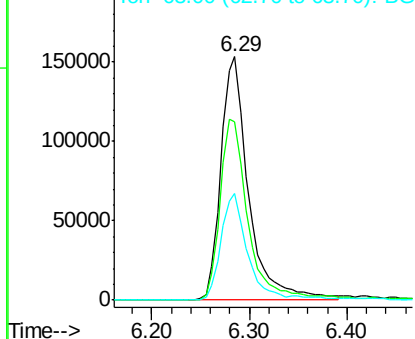
#5

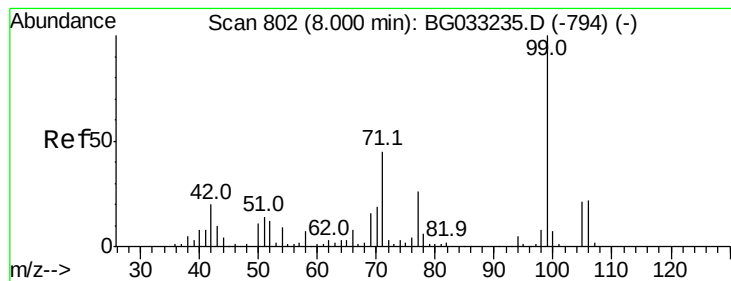
2-Fluorophenol  
Concen: 161.104 ng  
RT: 6.29 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

Tgt Ion:112 Resp: 302633  
Ion Ratio Lower Upper  
112 100  
64 73.2 56.3 84.5  
63 43.9 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: 122.261 ng

RT: 7.97 min Scan# 796

Delta R.T. -0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

Instrument :

BNA\_G

ClientSampleId :

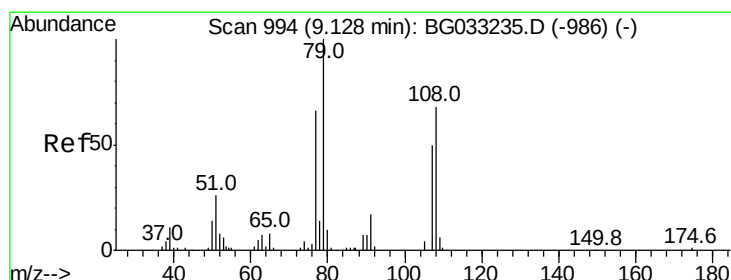
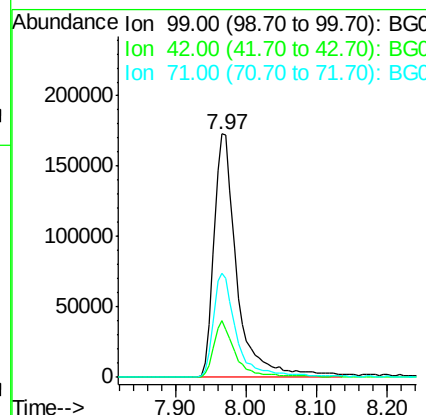
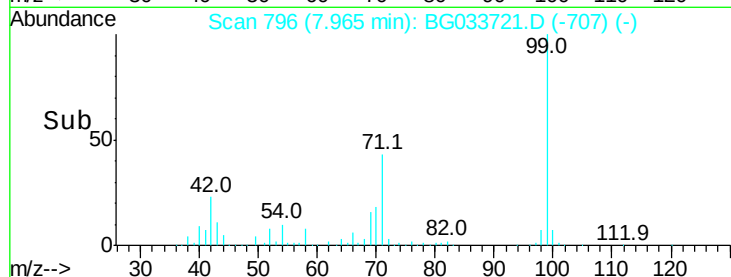
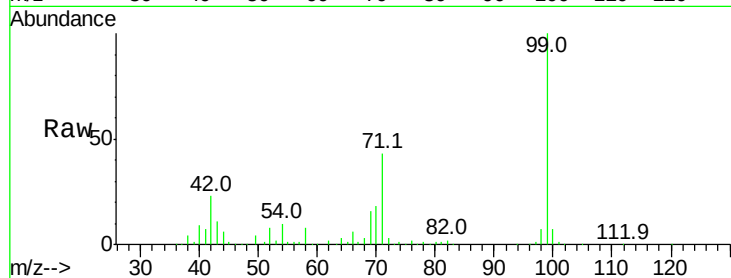
Tot Ion: 99 Resp: 394613

Ion Ratio Lower Upper

99 100

42 23.3 14.1 21.1#

71 42.7 26.1 39.1#



#15

Benzyl Alcohol

Concen: 2.228 ng

RT: 9.18 min Scan# 1003

Delta R.T. 0.09 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

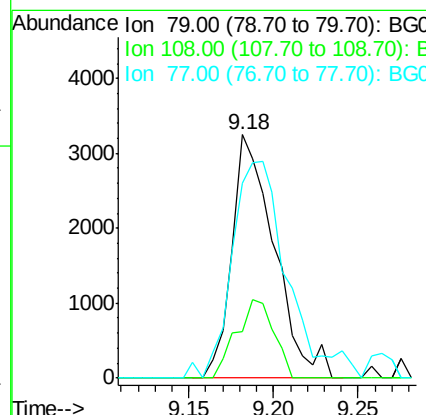
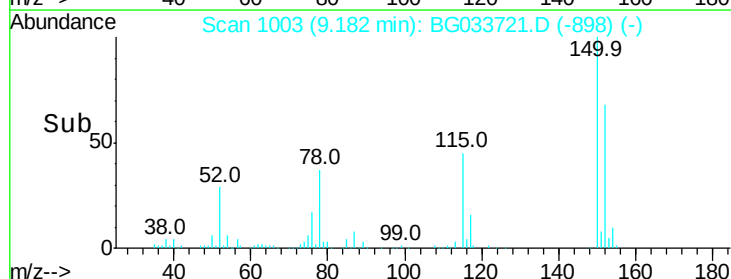
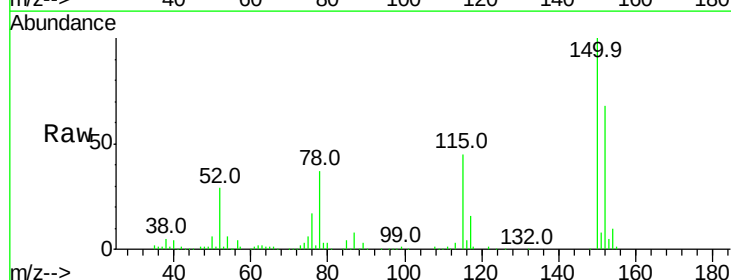
Tgt Ion: 79 Resp: 5663

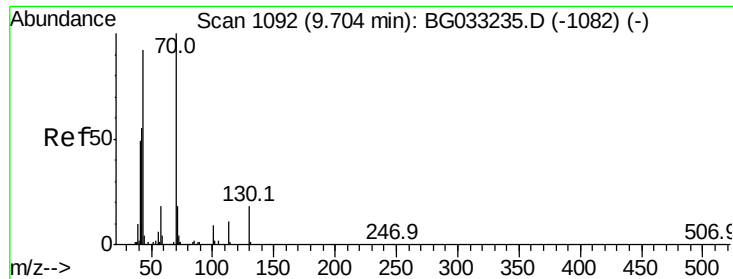
Ion Ratio Lower Upper

79 100

108 19.1 57.2 85.8#

77 80.3 46.1 69.1#

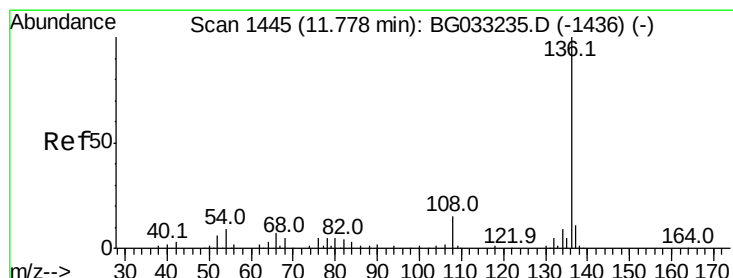
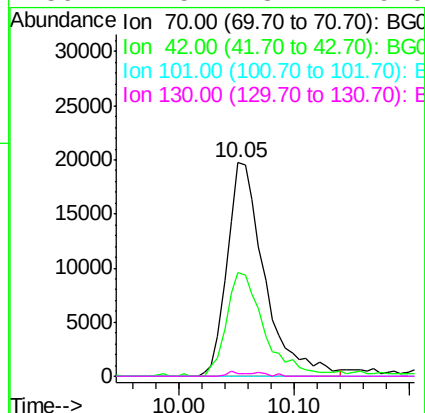
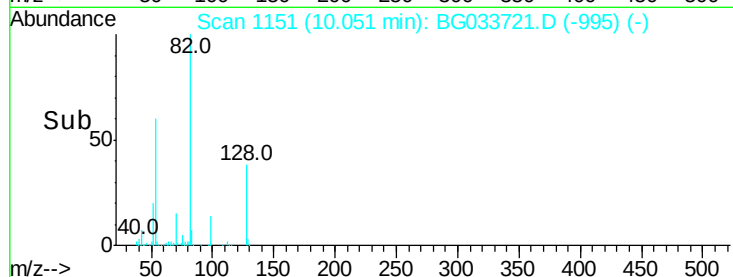
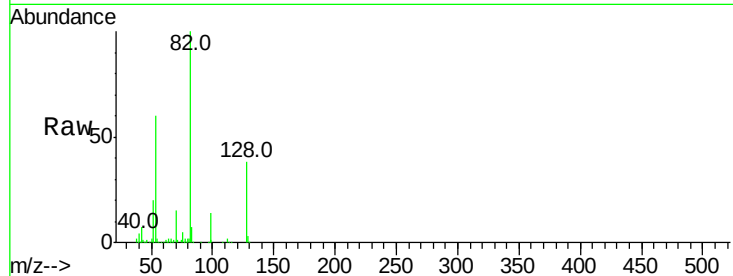




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.767 ng  
RT: 10.05 min Scan# 1151  
Delta R.T. 0.39 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

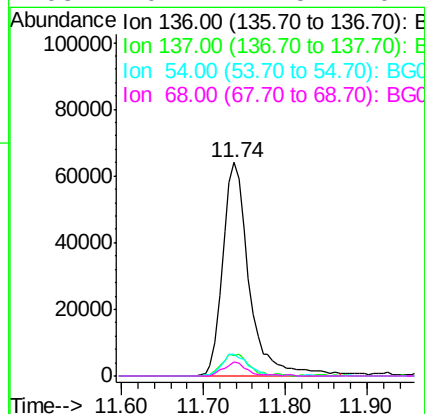
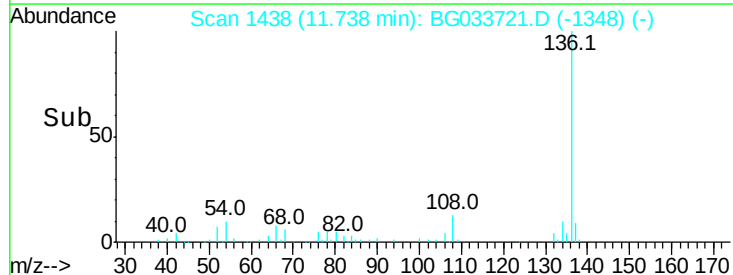
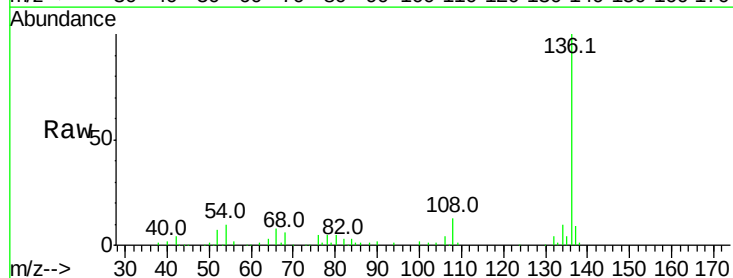
Instrument :  
BNA\_G  
ClientSampleId :

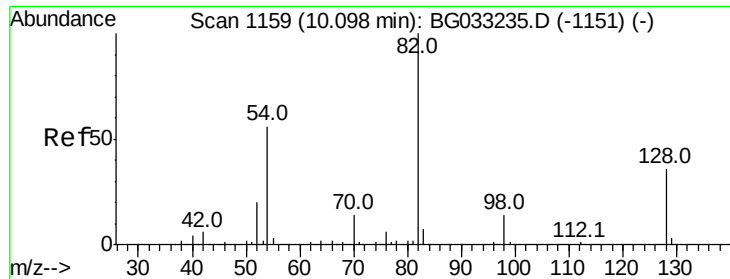
Tot Ion: 70 Resp: 44385  
Ion Ratio Lower Upper  
70 100  
42 48.6 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.5 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.74 min Scan# 1438  
Delta R.T. 0.00 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

Tgt Ion: 136 Resp: 144342  
Ion Ratio Lower Upper  
136 100  
137 9.5 9.2 13.8  
54 10.1 10.3 15.5#  
68 6.4 4.5 6.7





#23

Nitrobenzene-d5

Concen: 105.615 ng

RT: 10.06 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

Instrument :

BNA\_G

ClientSampled :

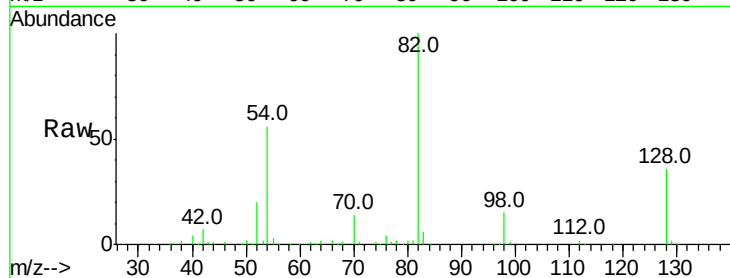
Tot Ion: 82 Resp: 331809

Ion Ratio Lower Upper

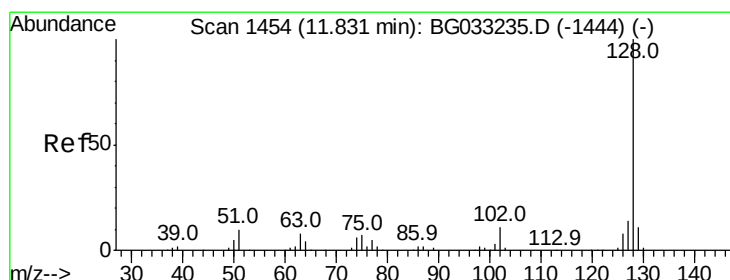
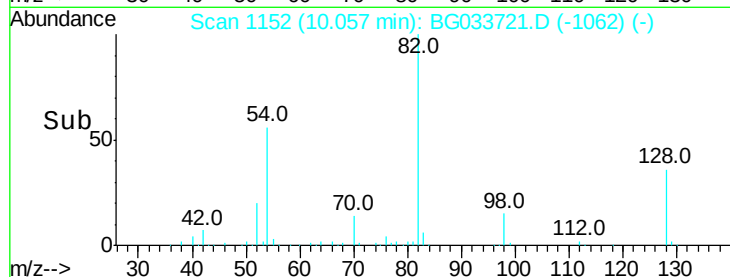
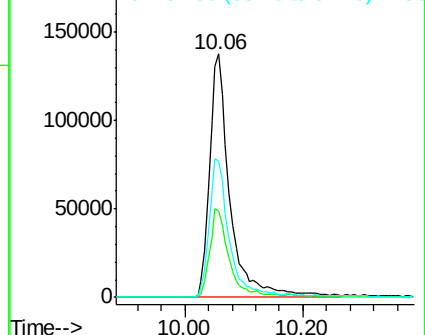
82 100

128 35.7 29.7 44.5

54 55.7 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



#31

Naphthalene

Concen: 10.304 ng

RT: 11.79 min Scan# 1447

Delta R.T. 0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

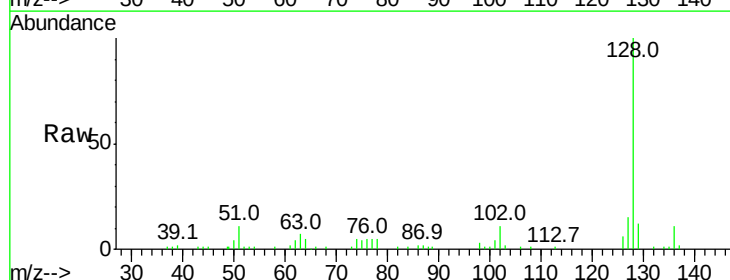
Tgt Ion: 128 Resp: 77069

Ion Ratio Lower Upper

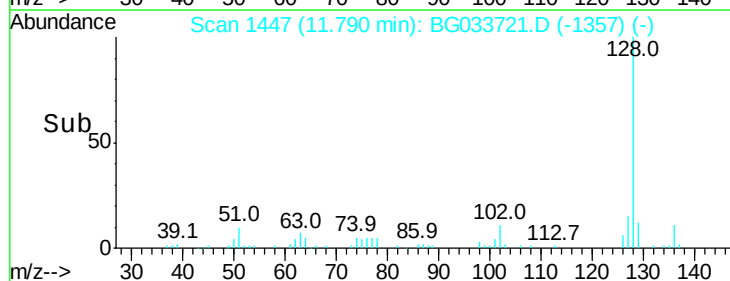
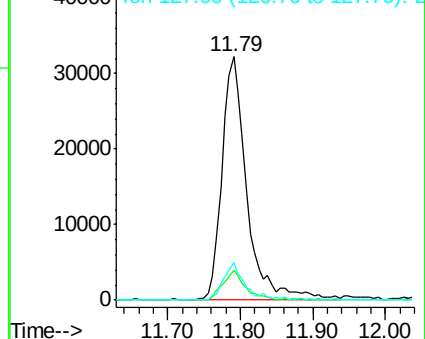
128 100

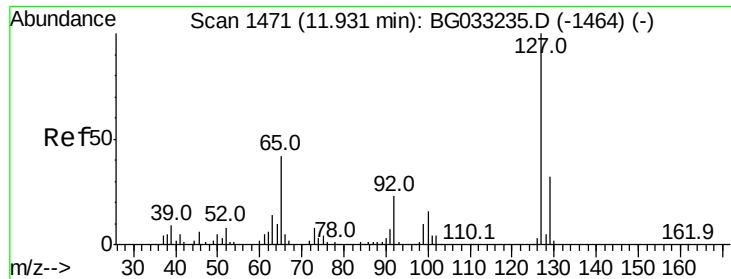
129 12.3 8.6 12.8

127 15.3 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 129.00 (128.70 to 129.70): BGC  
Ion 127.00 (126.70 to 127.70): BGC

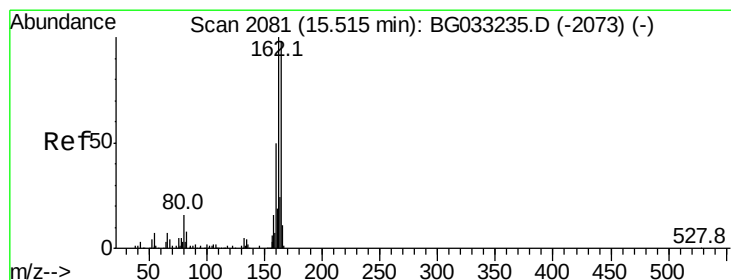
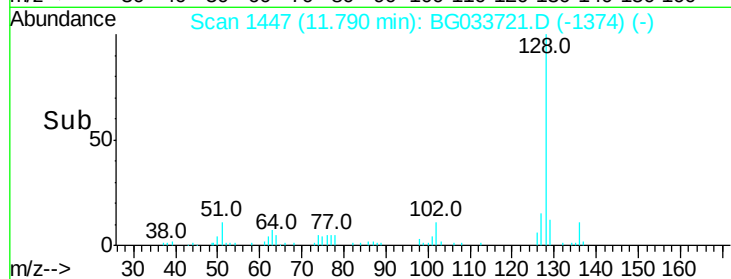
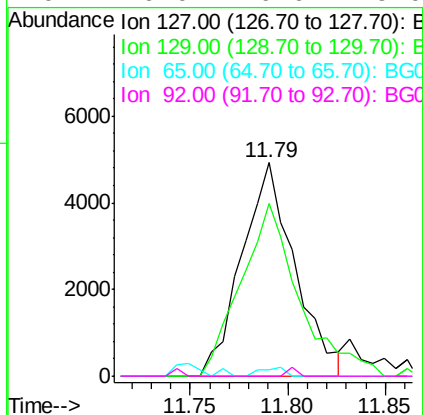
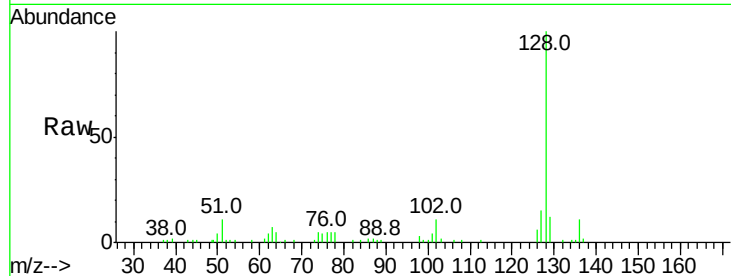




#33  
4-Chloroaniline  
Concen: 2.750 ng  
RT: 11.79 min Scan# 1447  
Delta R.T. -0.10 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

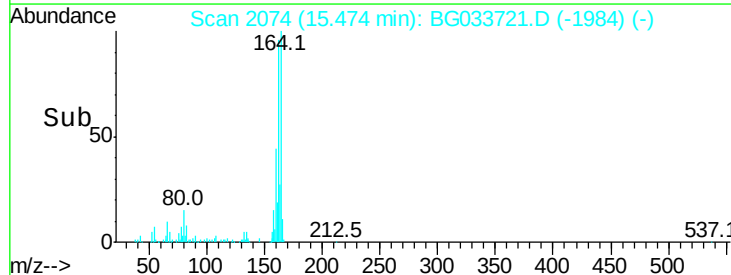
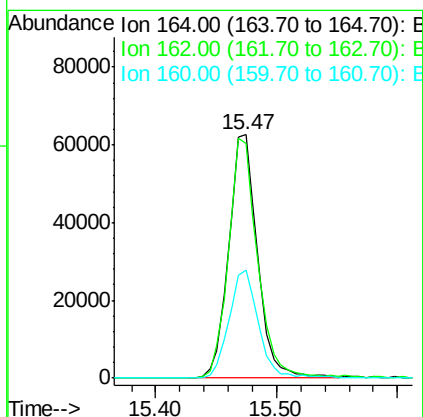
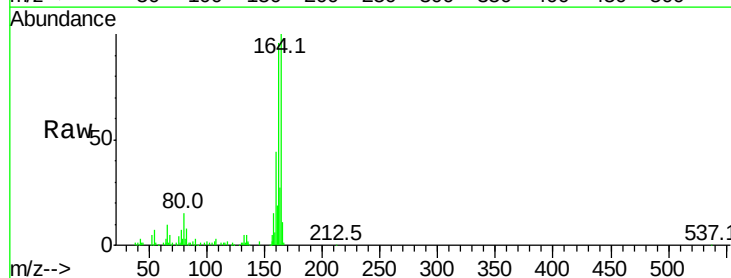
Instrument :  
BNA\_G  
ClientSampleId :

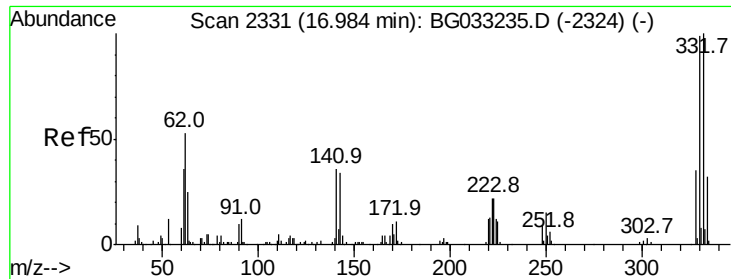
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 80.7  | 24.0  | 36.0# |
| 65      | 3.1   | 27.0  | 40.4# |
| 92      | 0.0   | 16.6  | 25.0# |



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.4  | 78.8  | 118.2 |
| 160     | 44.4  | 35.4  | 53.0  |

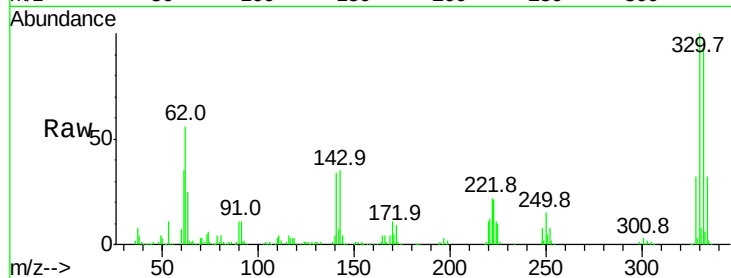




#41  
 2,4,6-Tribromophenol  
 Concen: 165.626 ng  
 RT: 16.95 min Scan# 2325  
 Delta R.T. 0.00 min  
 Lab File: BG033721.D  
 Acq: 10 Apr 2018 19:54

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.3  | 77.0  | 115.6 |
| 141     | 37.3  | 25.2  | 37.8  |

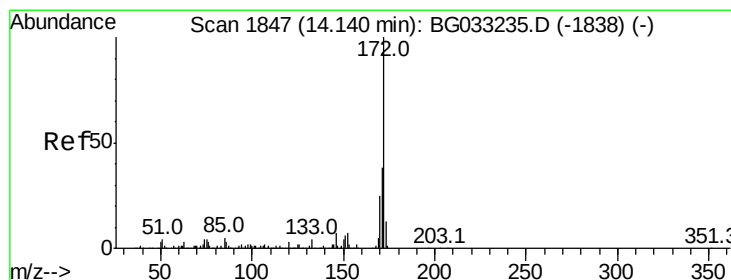
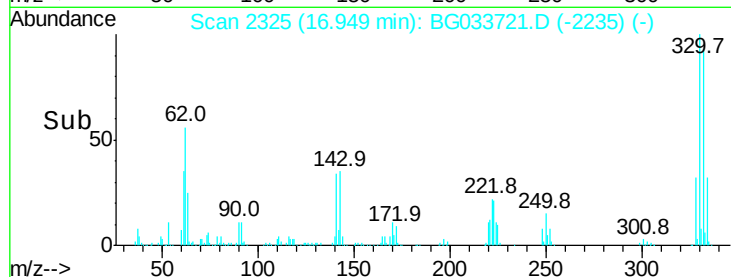
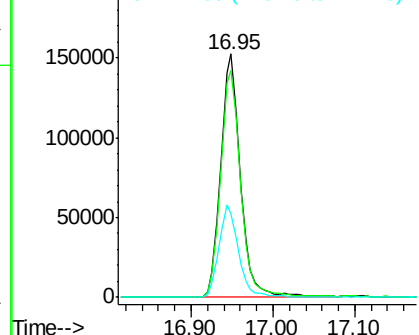


Abundance

Ion 329.80 (329.50 to 330.50): E

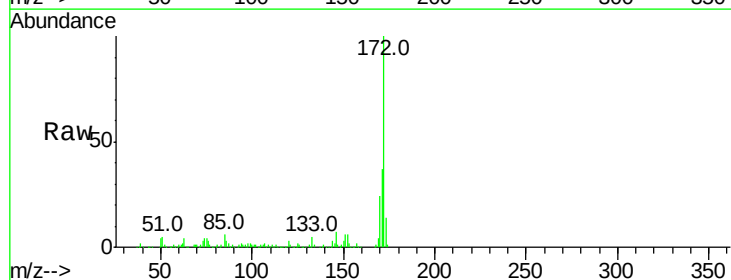
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 101.990 ng  
 RT: 14.10 min Scan# 1840  
 Delta R.T. -0.00 min  
 Lab File: BG033721.D  
 Acq: 10 Apr 2018 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 30.0  | 45.0  |
| 170     | 24.5  | 19.5  | 29.3  |

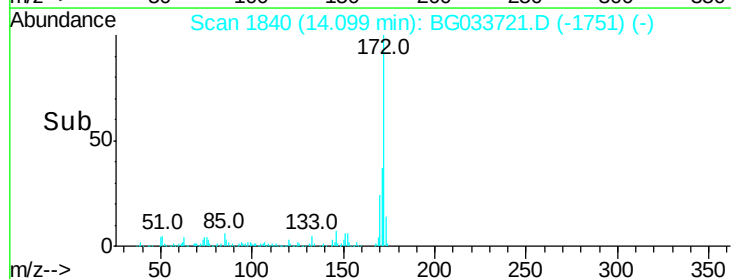
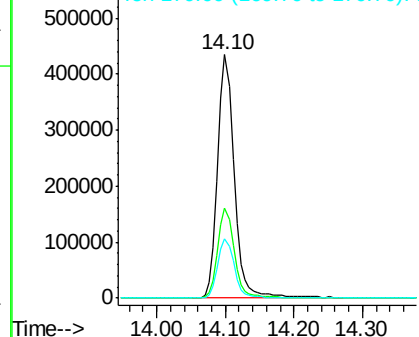


Abundance

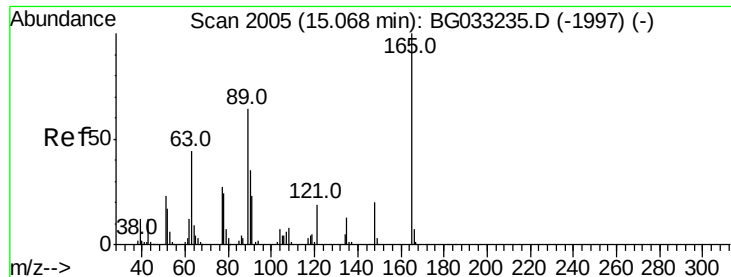
Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



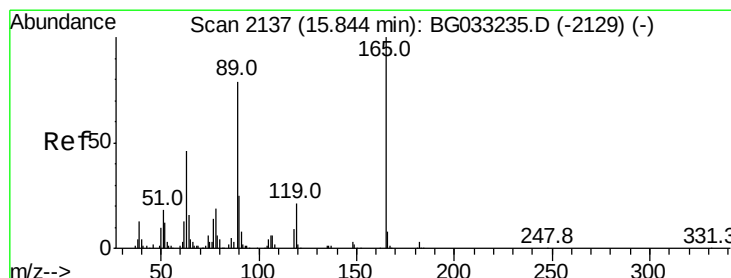
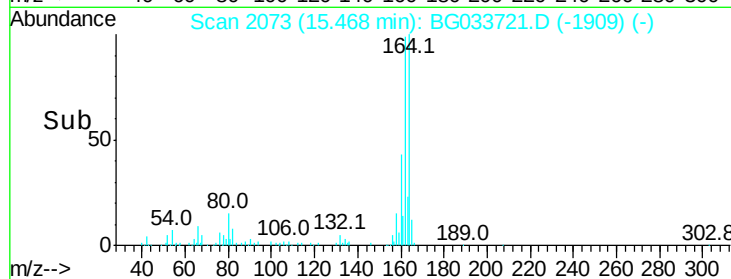
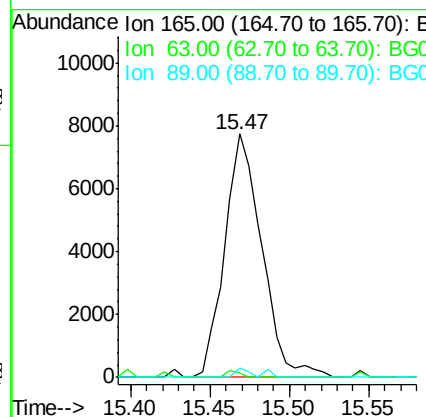
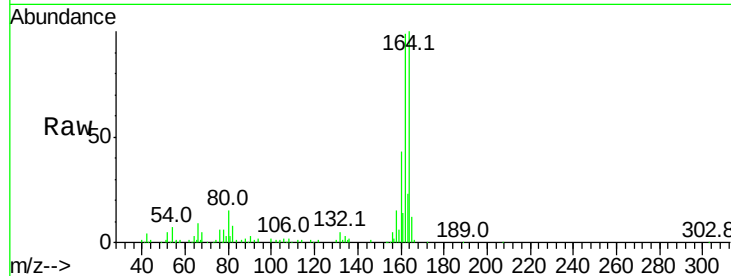




#50  
2,6-Dinitrotoluene  
Concen: 6.781 ng  
RT: 15.47 min Scan# 2073  
Delta R.T. 0.44 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

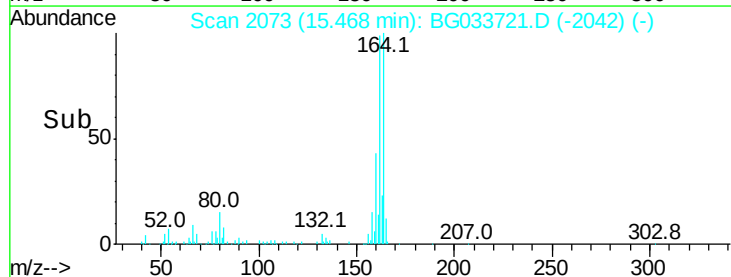
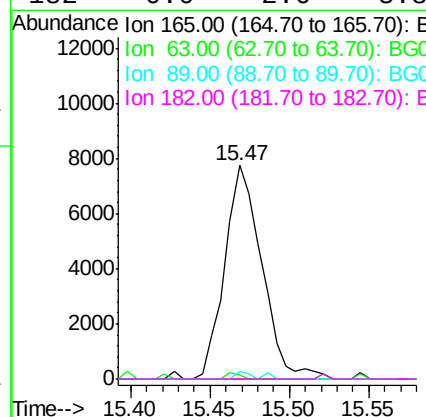
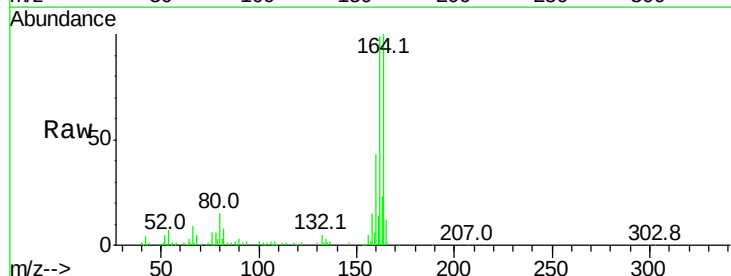
Instrument :  
BNA\_G  
ClientSampleId :

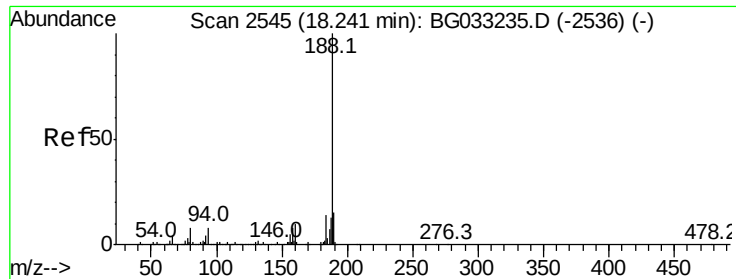
Tot Ion:165 Resp: 12577  
Ion Ratio Lower Upper  
165 100  
63 2.0 52.7 79.1#  
89 3.8 49.2 73.8#



#56  
2,4-Dinitrotoluene  
Concen: 4.605 ng  
RT: 15.47 min Scan# 2073  
Delta R.T. -0.35 min  
Lab File: BG033721.D  
Acq: 10 Apr 2018 19:54

Tgt Ion:165 Resp: 12577  
Ion Ratio Lower Upper  
165 100  
63 2.0 42.0 63.0#  
89 3.8 66.9 100.3#  
182 0.0 2.6 3.8#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.20 min Scan# 2538

Delta R.T. -0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

Instrument :

BNA\_G

ClientSampled :

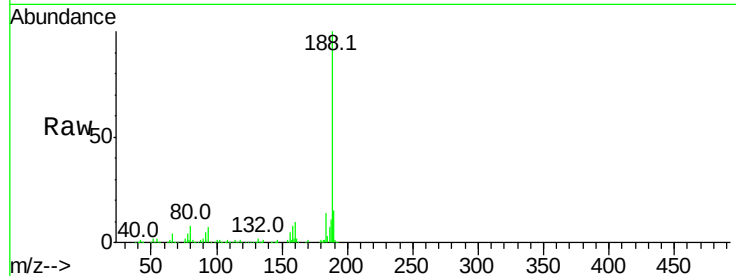
Tot Ion:188 Resp: 295203

Ion Ratio Lower Upper

188 100

94 7.1 6.9 10.3

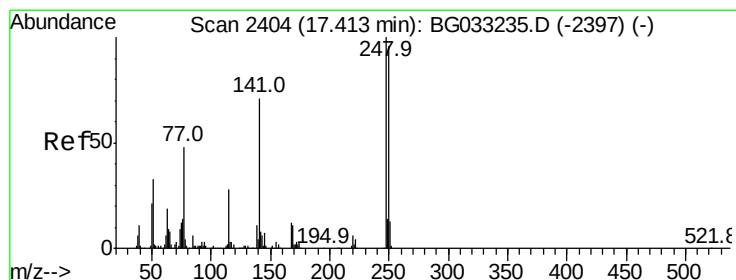
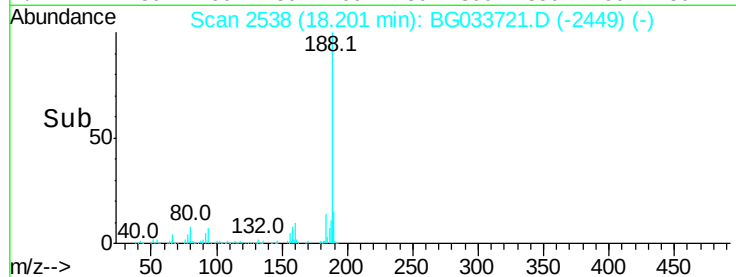
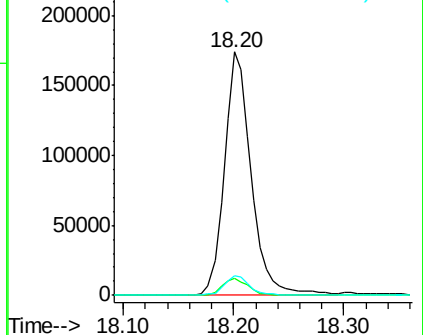
80 8.1 7.7 11.5



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



#66

4-Bromophenyl-phenylether

Concen: 5.780 ng

RT: 16.94 min Scan# 2324

Delta R.T. -0.43 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

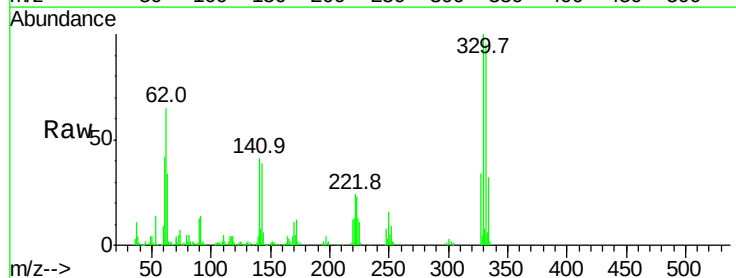
Tgt Ion:248 Resp: 20040

Ion Ratio Lower Upper

248 100

250 188.1 77.1 115.7#

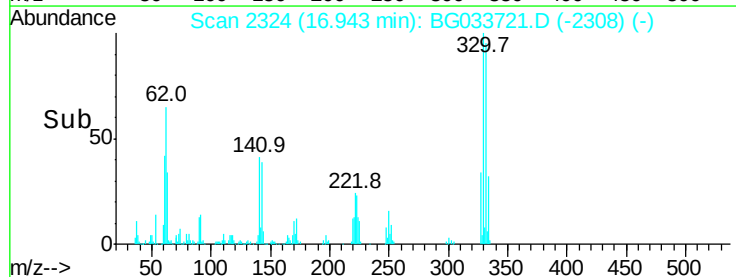
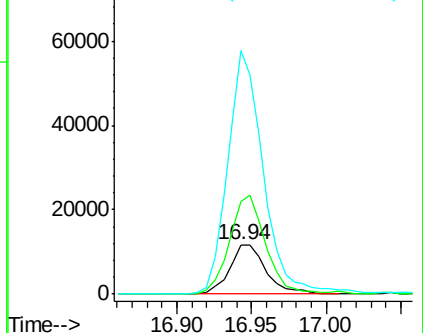
141 496.0 50.8 76.2#

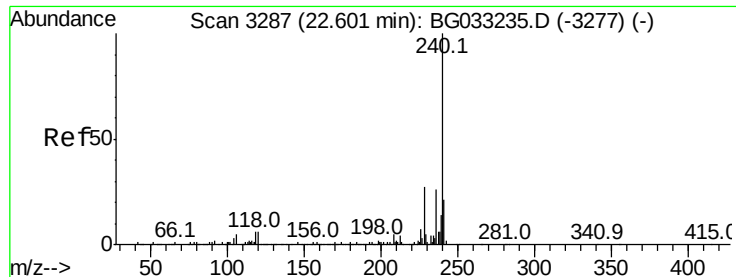


Abundance Ion 248.00 (247.70 to 248.70): E

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: 22.55 min Scan# 3278

Delta R.T. -0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

Instrument :

BNA\_G

ClientSampleId :

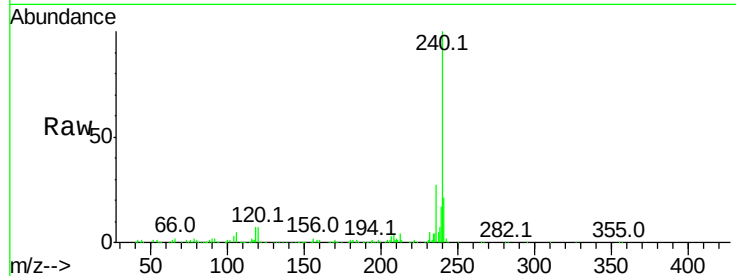
Tot Ion:240 Resp: 341127

Ion Ratio Lower Upper

240 100

120 6.7 6.8 10.2#

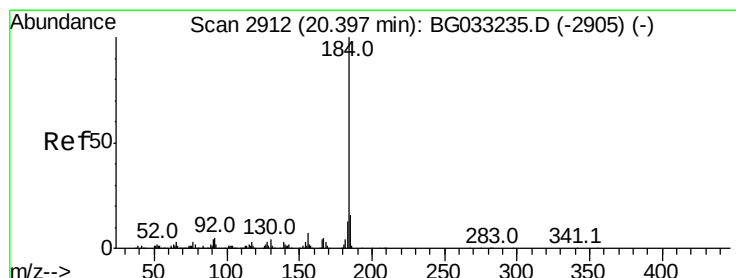
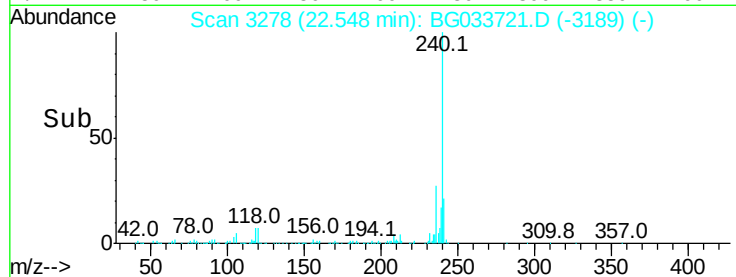
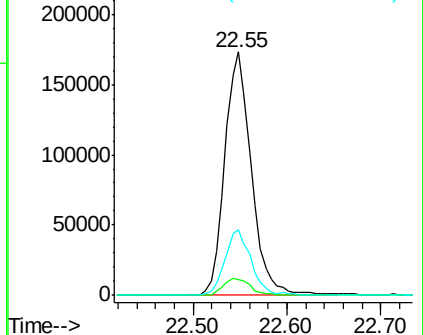
236 26.8 20.9 31.3



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: 3.138 ng

RT: 20.72 min Scan# 2967

Delta R.T. 0.36 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

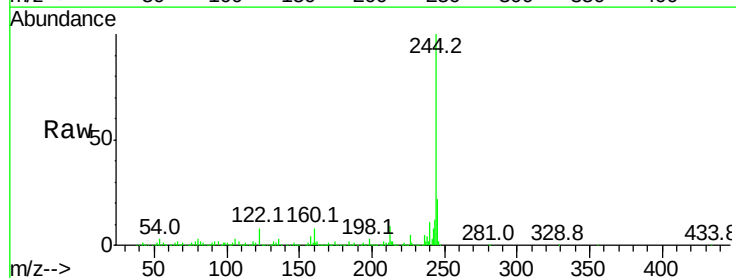
Tgt Ion:184 Resp: 29026

Ion Ratio Lower Upper

184 100

185 15.2 11.1 16.7

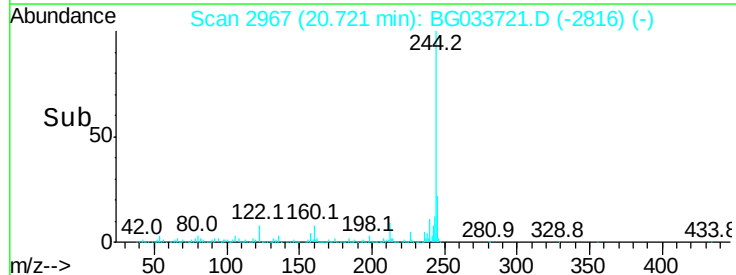
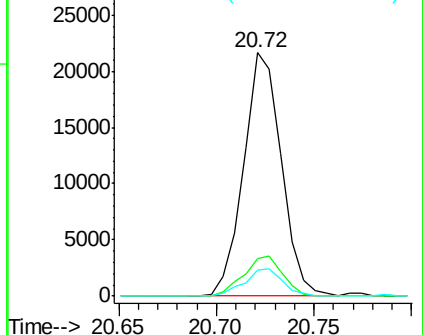
183 10.9 10.6 16.0

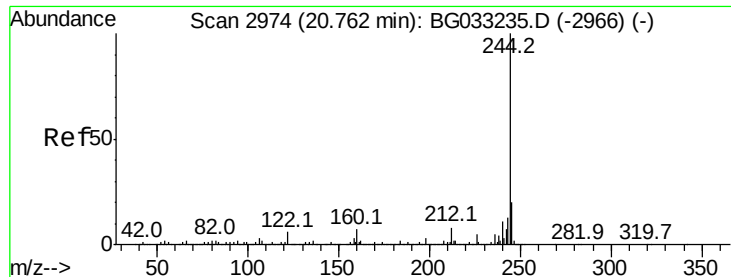


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 109.038 ng

RT: 20.73 min Scan# 2968

Delta R.T. 0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

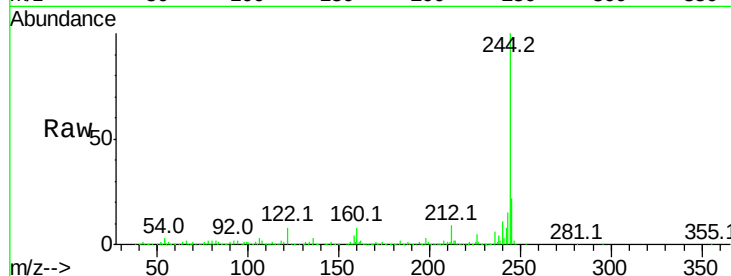
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1739261

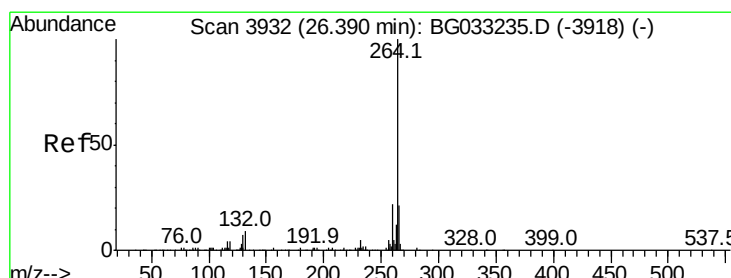
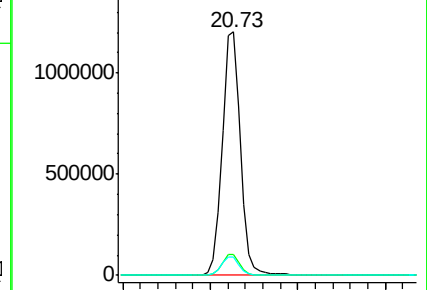
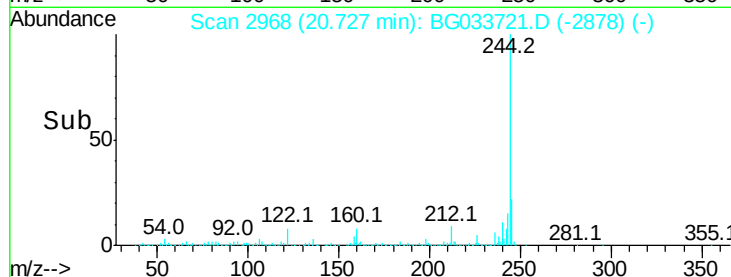
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.7   | 5.8   | 8.8   |
| 122 | 7.6   | 7.0   | 10.4  |



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: 26.31 min Scan# 3918

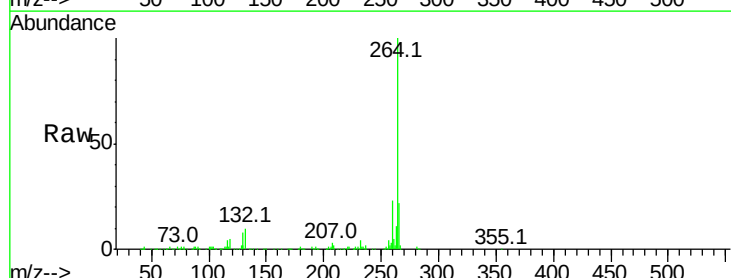
Delta R.T. 0.00 min

Lab File: BG033721.D

Acq: 10 Apr 2018 19:54

Tgt Ion:264 Resp: 368634

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.8  | 17.4  | 26.0  |
| 265 | 21.7  | 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

