

Data Path : U:\HPCHEM1\BNA G\DATA\BG011918\  
 Data File : BG032153.D  
 Acq On : 19 Jan 2018 15:58  
 Operator : SJ/JU  
 Sample : PB105755BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 19 22:18:00 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 18 10:13:16 2018  
 Response via : Initial Calibration

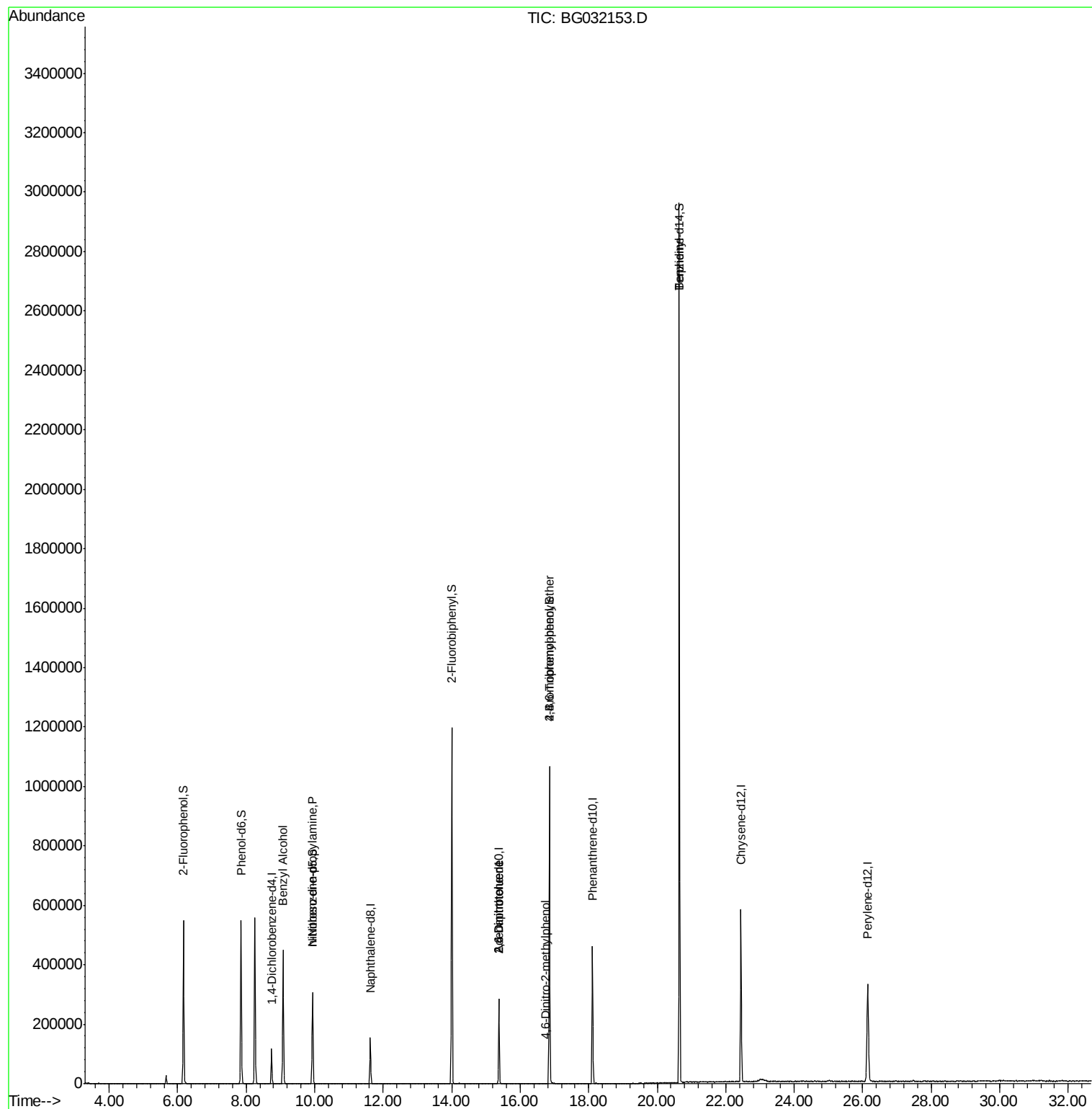
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.74  | 152  | 38329    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.62 | 136  | 154260   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.38 | 164  | 109538   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.11 | 188  | 316696   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.44 | 240  | 444401   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.15 | 264  | 453773   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.17  | 112  | 271906   | 129.74 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.85  | 99   | 338045   | 128.08 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.94  | 82   | 197770   | 86.74  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.86 | 330  | 238063   | 131.34 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.01 | 172  | 720932   | 81.61  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.65 | 244  | 1650199  | 81.99  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.07  | 79   | 4113     | 2.145  | ng    | # 61     |
| 19) n-Nitroso-di-n-propylamine | 9.94  | 70   | 27083    | 16.538 | ng    | # 71     |
| 50) 2,6-Dinitrotoluene         | 15.38 | 165  | 13536    | 6.803  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.38 | 165  | 13536    | 5.053  | ng    | # 16     |
| 64) 4,6-Dinitro-2-methylphenol | 16.76 | 198  | 55       | 4.909  | ng    | # 29     |
| 66) 4-Bromophenyl-phenylether  | 16.85 | 248  | 21178    | 4.700  | ng    | # 1      |
| 76) Benizidine                 | 20.65 | 184  | 22691    | 2.042  | ng    | # 94     |

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

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Response via : Initial Calibration



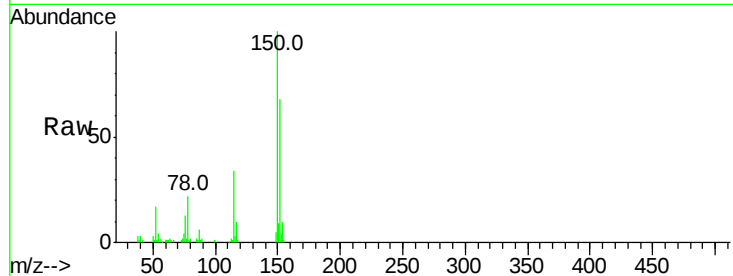


#1

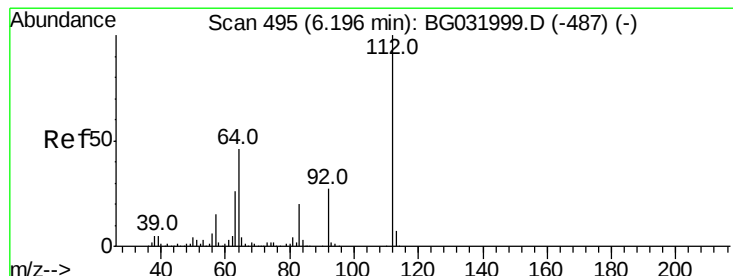
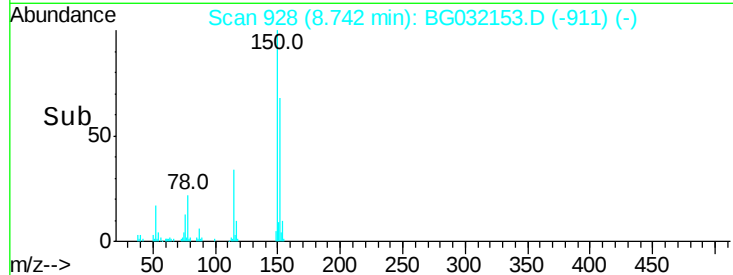
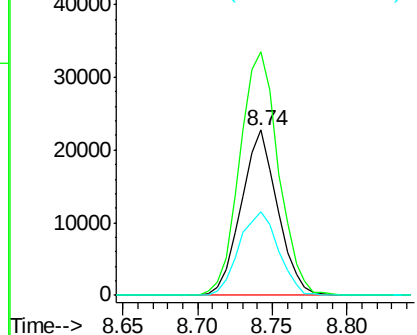
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.74 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 38329  
Ion Ratio Lower Upper  
152 100  
150 147.3 126.6 189.8  
115 50.8 53.0 79.4#



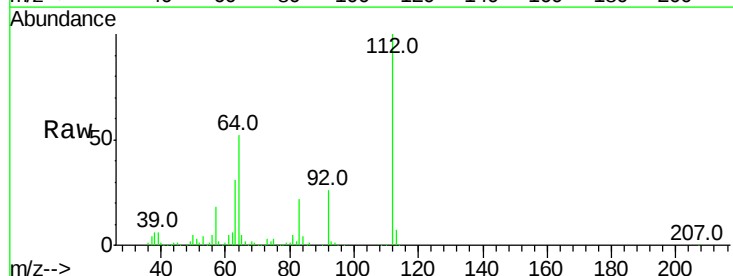
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



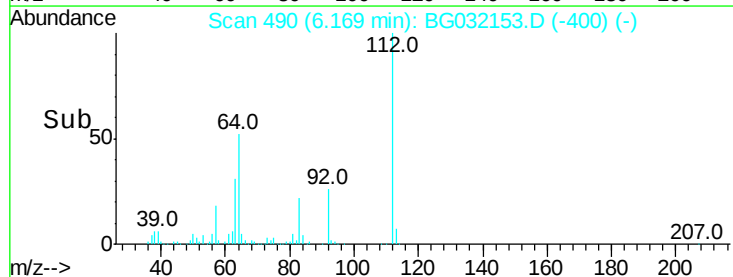
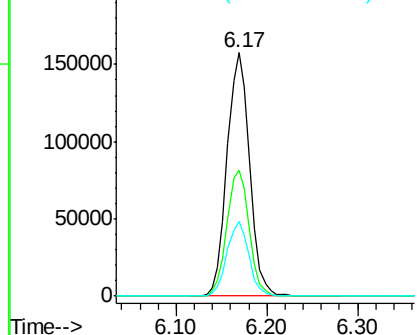
#5

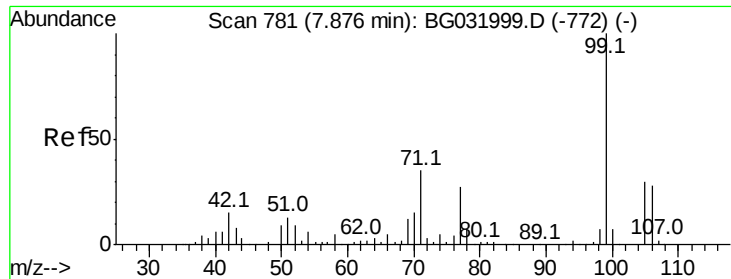
2-Fluorophenol  
Concen: 129.745 ng  
RT: 6.17 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Tgt Ion:112 Resp: 271906  
Ion Ratio Lower Upper  
112 100  
64 51.9 56.3 84.5#  
63 30.7 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: 128.076 ng

RT: 7.85 min Scan# 776

Delta R.T. 0.00 min

Lab File: BG032153.D

Acq: 19 Jan 2018 15:58

Instrument :

BNA\_G

ClientSampled :

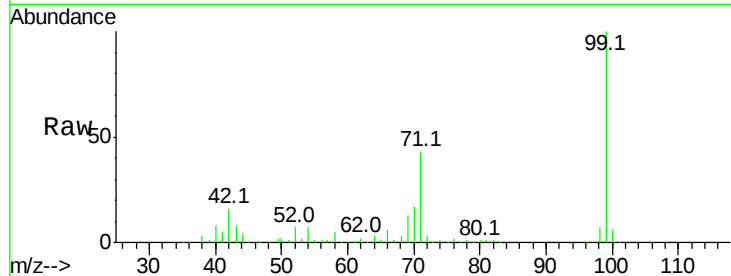
Tot Ion: 99 Resp: 338045

Ion Ratio Lower Upper

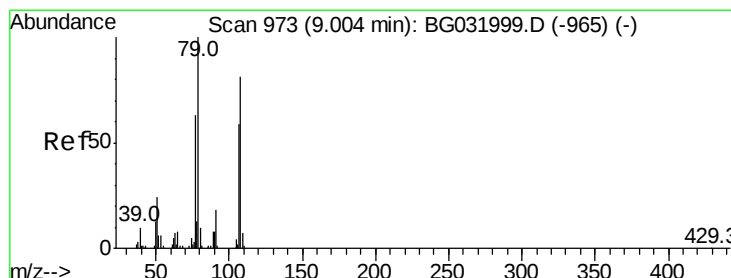
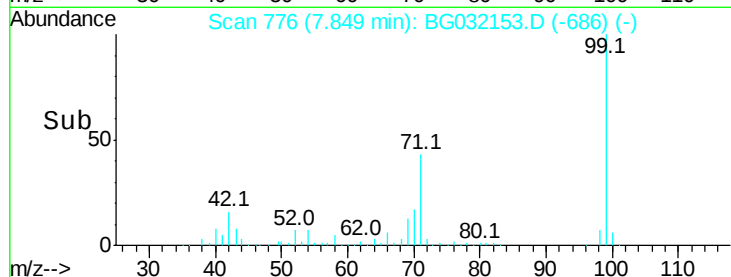
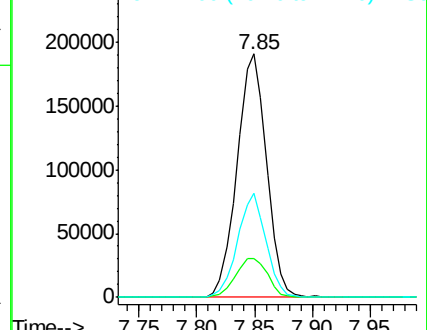
99 100

42 15.9 14.1 21.1

71 42.7 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



#15

Benzyl Alcohol

Concen: 2.145 ng

RT: 9.07 min Scan# 984

Delta R.T. 0.09 min

Lab File: BG032153.D

Acq: 19 Jan 2018 15:58

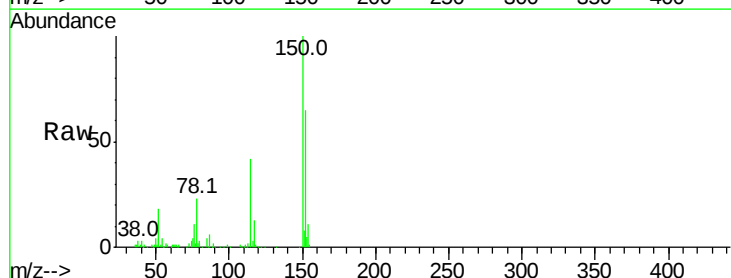
Tgt Ion: 79 Resp: 4113

Ion Ratio Lower Upper

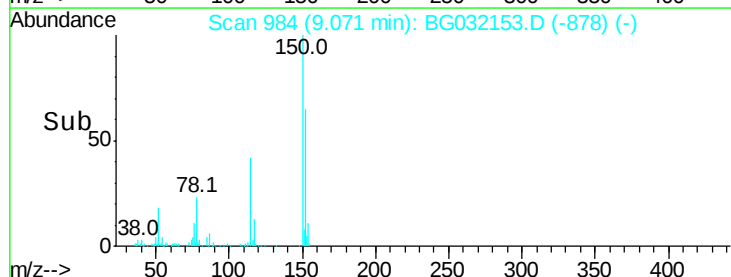
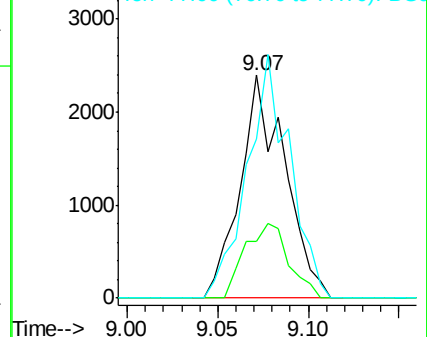
79 100

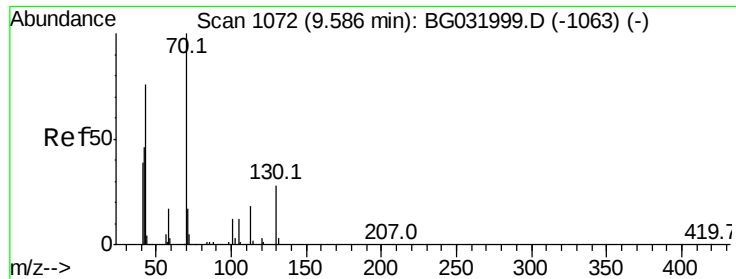
108 25.2 57.2 85.8#

77 71.2 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

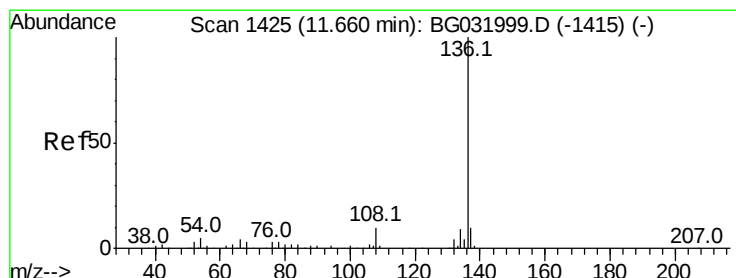
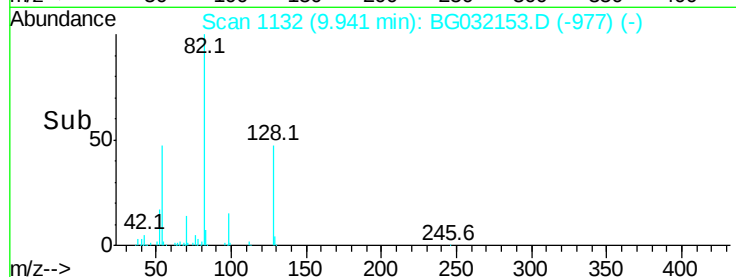
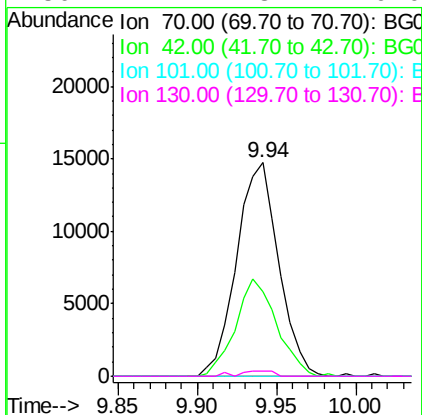
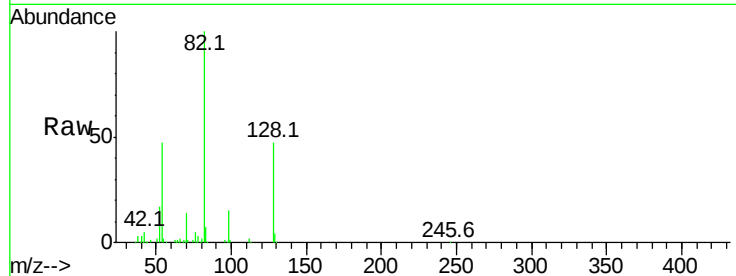




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.538 ng  
RT: 9.94 min Scan# 1132  
Delta R.T. 0.38 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

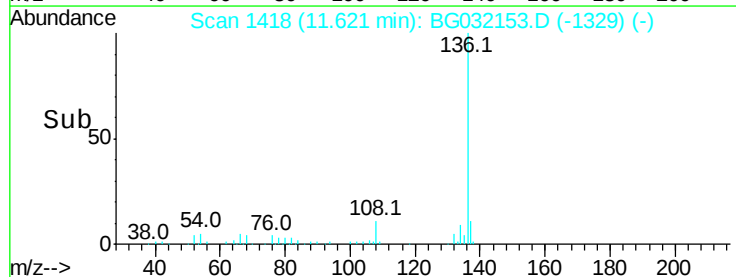
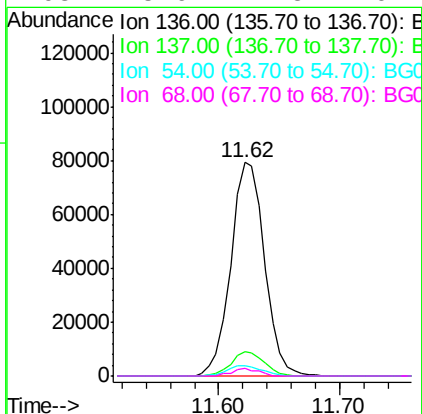
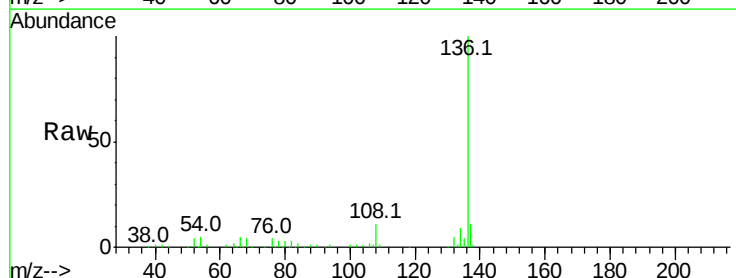
Instrument :  
BNA\_G  
ClientSampleId :

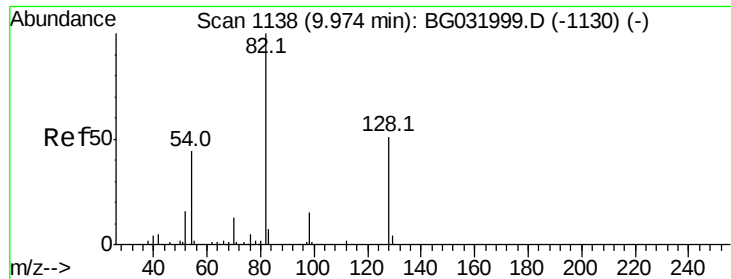
Tot Ion: 70 Resp: 27083  
Ion Ratio Lower Upper  
70 100  
42 39.3 49.1 73.7#  
101 0.0 8.5 12.7#  
130 2.7 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.62 min Scan# 1418  
Delta R.T. -0.01 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Tgt Ion: 136 Resp: 154260  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.2 13.8  
54 4.9 10.3 15.5#  
68 3.6 4.5 6.7#

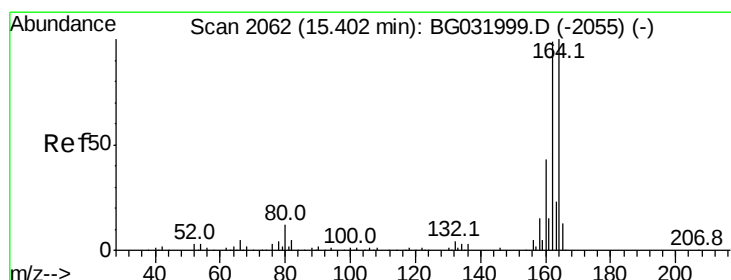
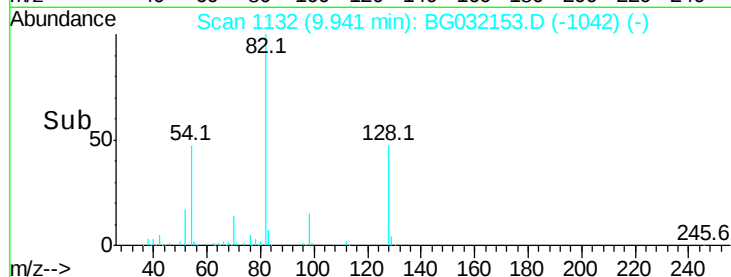
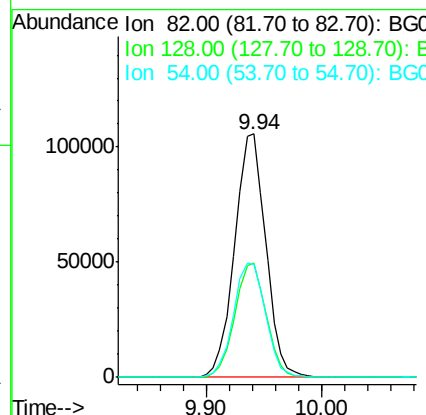
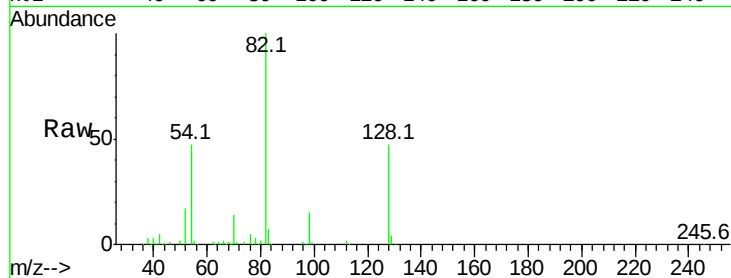




#23  
 Nitrobenzene-d5  
 Concen: 86.737 ng  
 RT: 9.94 min Scan# 1132  
 Delta R.T. 0.00 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

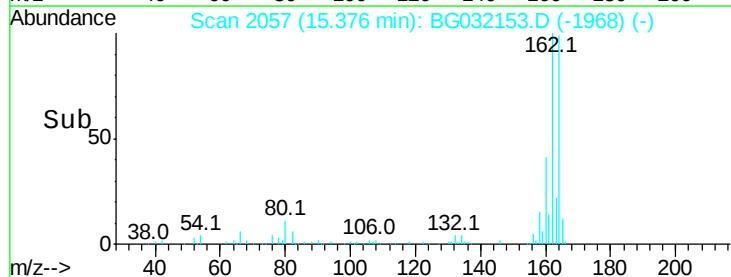
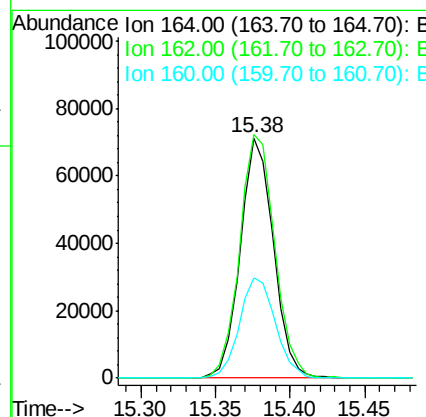
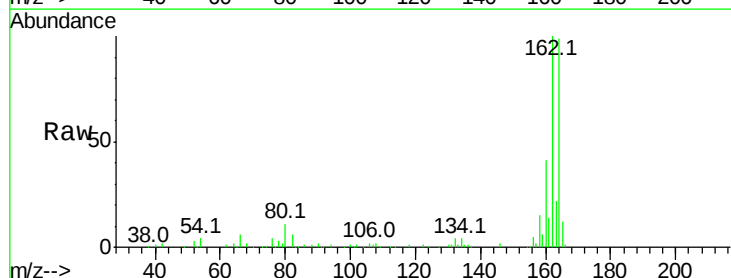
Instrument :  
 BNA\_G  
 ClientSampled :

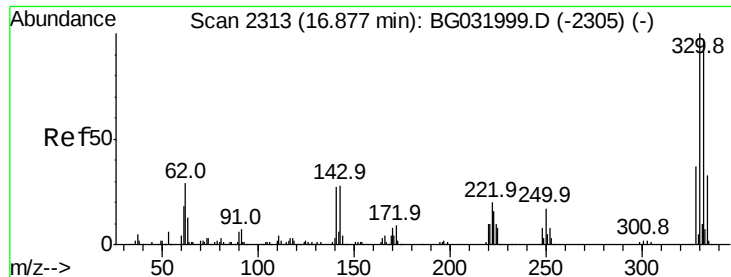
Tot Ion: 82 Resp: 197770  
 Ion Ratio Lower Upper  
 82 100  
 128 47.1 29.7 44.5#  
 54 46.6 43.1 64.7



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.38 min Scan# 2057  
 Delta R.T. -0.01 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

Tgt Ion: 164 Resp: 109538  
 Ion Ratio Lower Upper  
 164 100  
 162 101.3 78.8 118.2  
 160 41.5 35.4 53.0

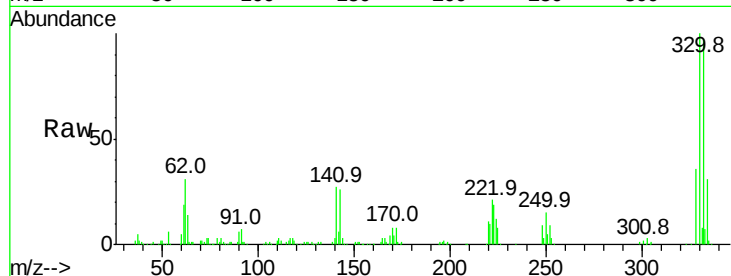




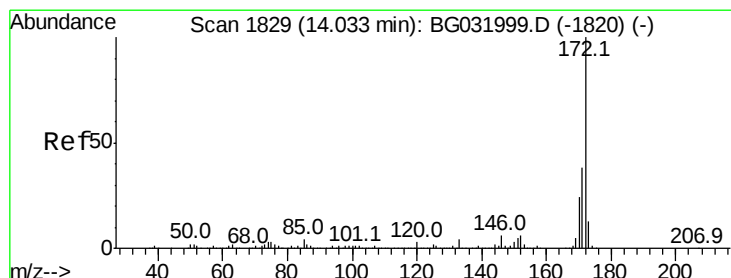
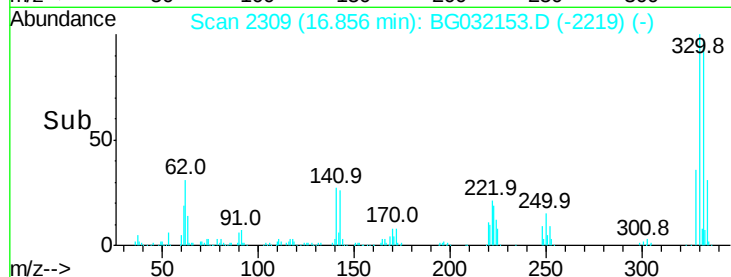
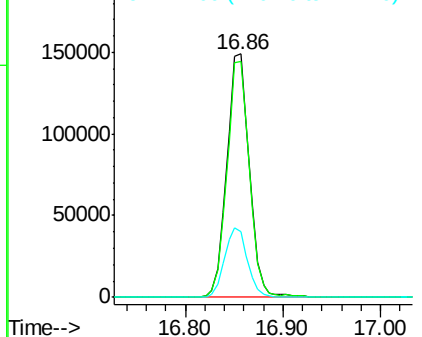
#41  
 2,4,6-Tribromophenol  
 Concen: 131.338 ng  
 RT: 16.86 min Scan# 2309  
 Delta R.T. 0.00 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 77.0  | 115.6 |
| 141     | 29.2  | 25.2  | 37.8  |

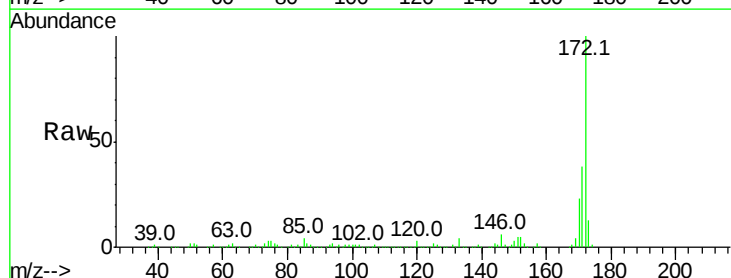


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

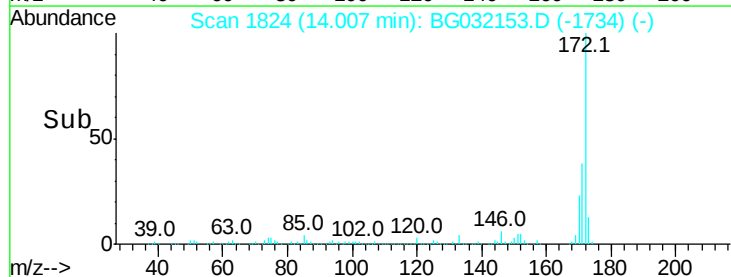
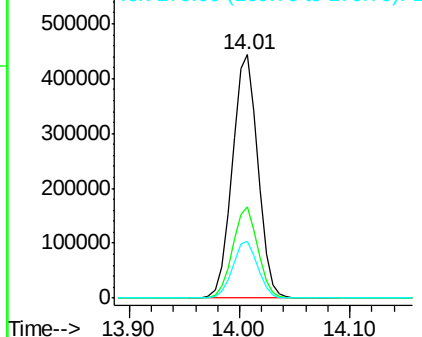


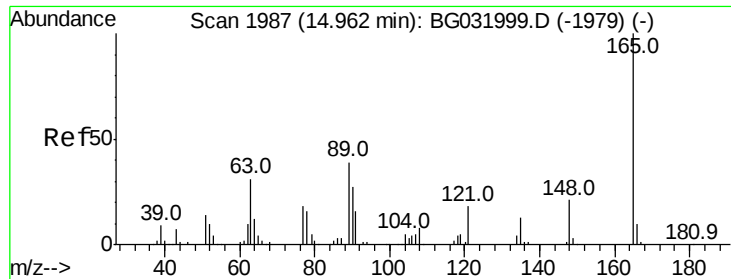
#44  
 2-Fluorobiphenyl  
 Concen: 81.608 ng  
 RT: 14.01 min Scan# 1824  
 Delta R.T. 0.00 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.7  | 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

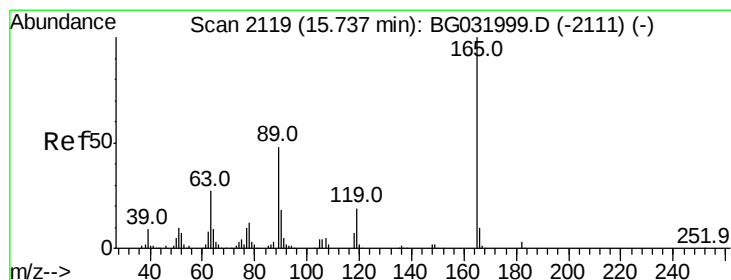
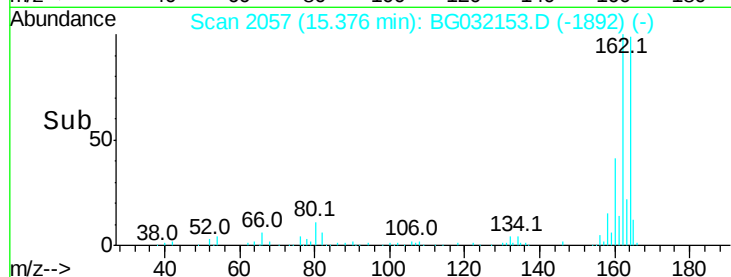
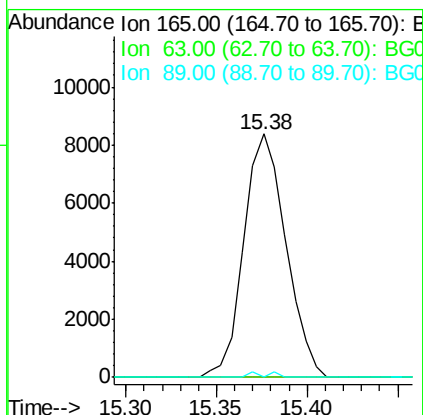
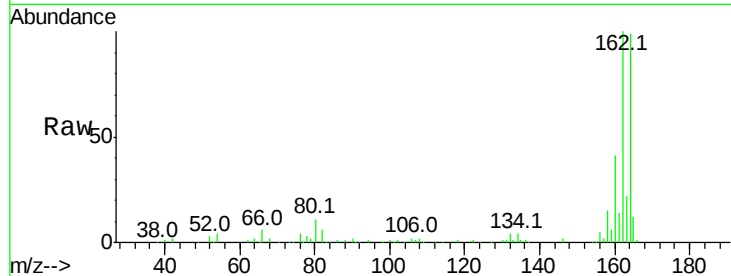




#50  
 2,6-Dinitrotoluene  
 Concen: 6.803 ng  
 RT: 15.38 min Scan# 2057  
 Delta R.T. 0.44 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

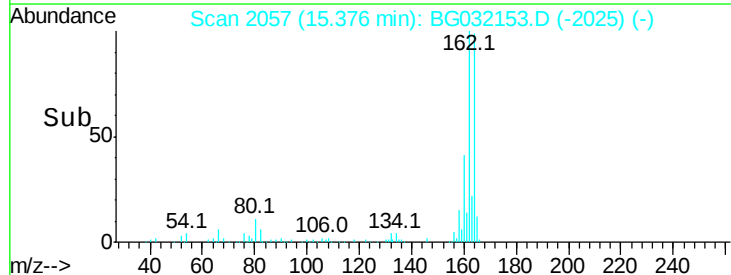
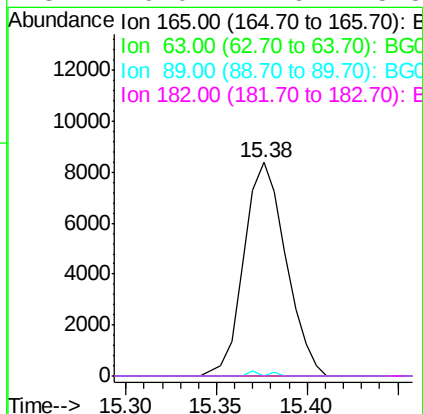
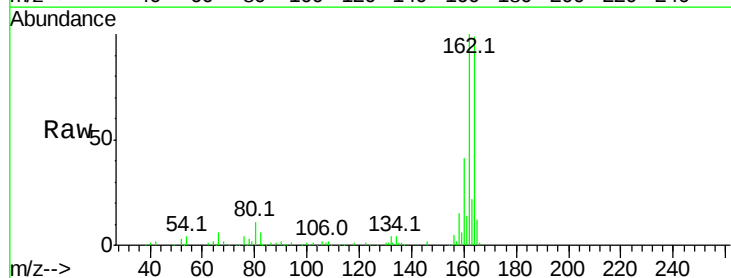
Instrument :  
 BNA\_G  
 ClientSampleId :

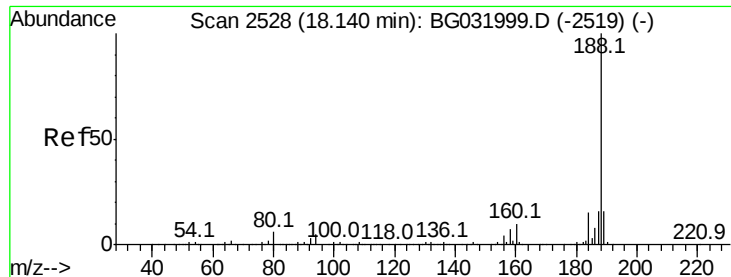
Tot Ion:165 Resp: 13536  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.053 ng  
 RT: 15.38 min Scan# 2057  
 Delta R.T. -0.34 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

Tgt Ion:165 Resp: 13536  
 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#

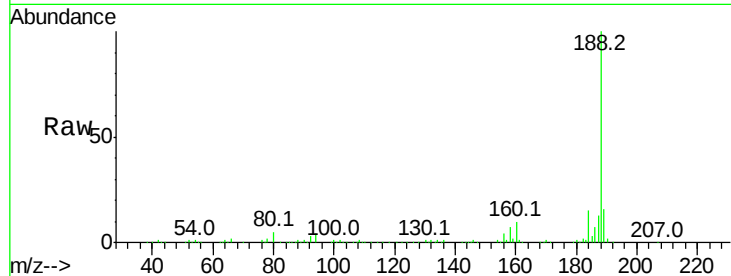




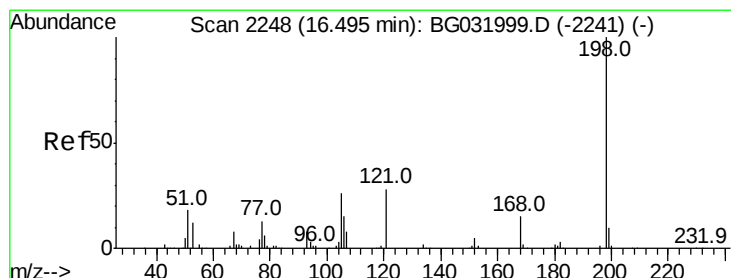
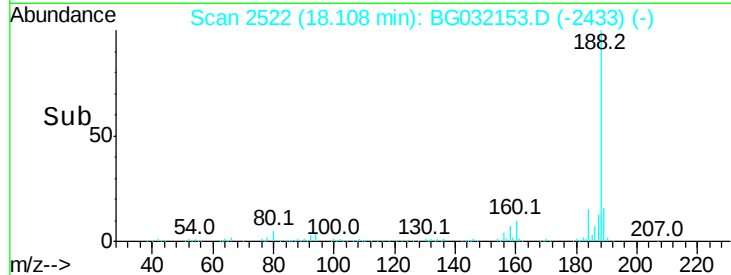
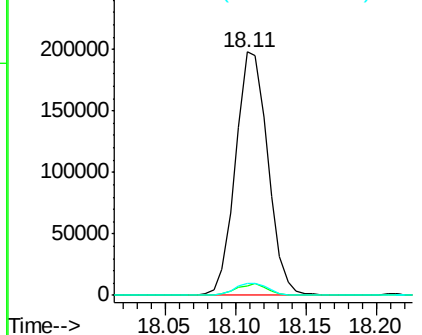
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.11 min Scan# 2522  
Delta R.T. -0.01 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:188 Resp: 316696  
Ion Ratio Lower Upper  
188 100  
94 4.1 6.9 10.3#  
80 4.7 7.7 11.5#

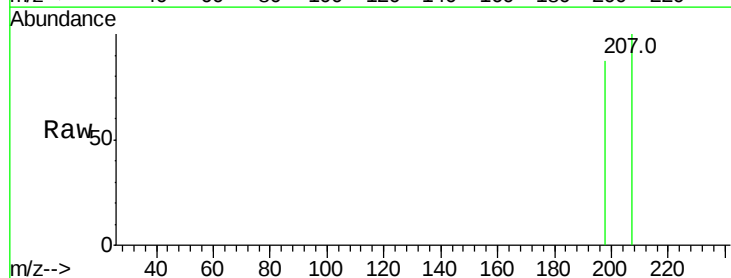


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

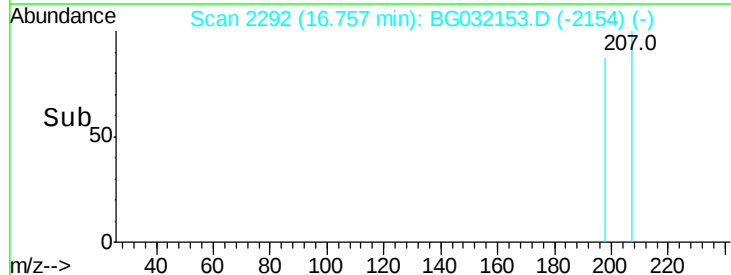
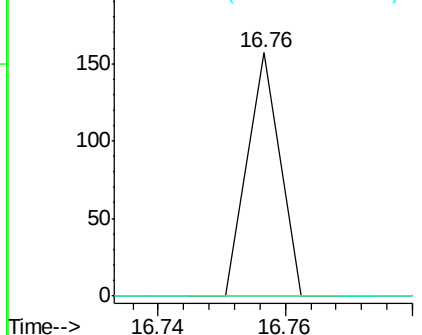


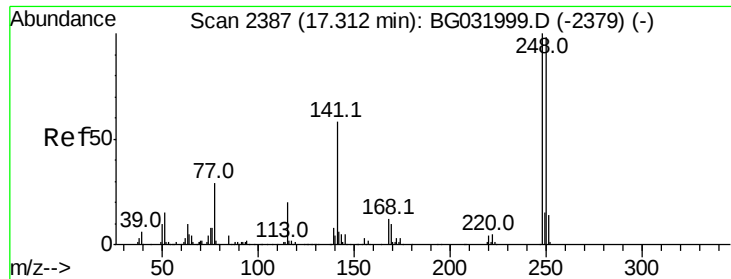
#64  
4,6-Dinitro-2-methylphenol  
Concen: 4.909 ng  
RT: 16.76 min Scan# 2292  
Delta R.T. 0.28 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Tgt Ion:198 Resp: 55  
Ion Ratio Lower Upper  
198 100  
51 0.0 30.6 70.6#  
105 0.0 23.8 63.8#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 105.00 (104.70 to 105.70): E

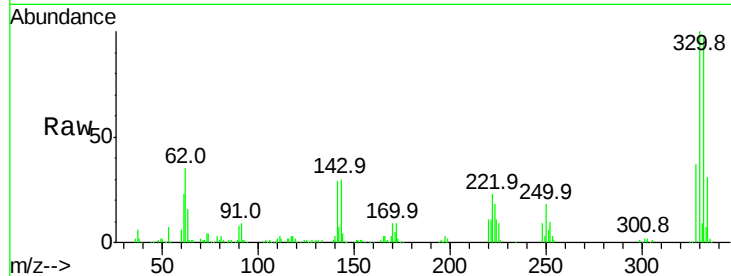




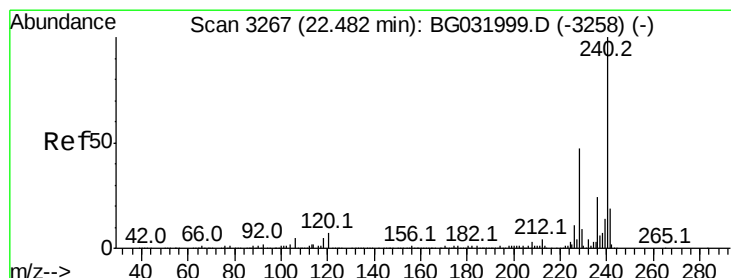
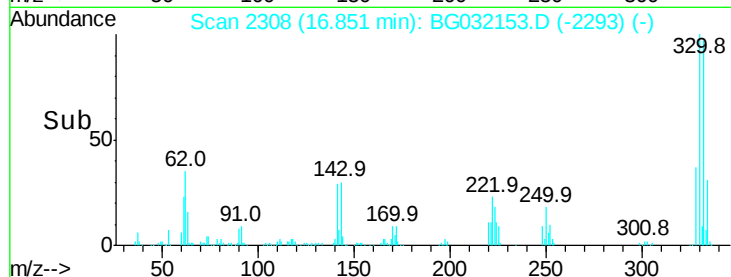
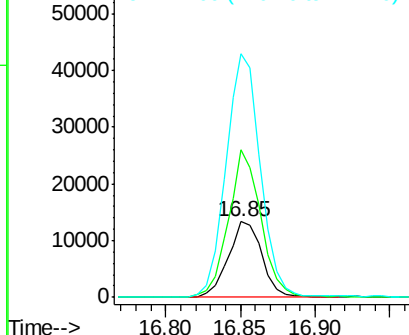
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.700 ng  
 RT: 16.85 min Scan# 2308  
 Delta R.T. -0.44 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 21178  
 Ion Ratio Lower Upper  
 248 100  
 250 195.1 77.1 115.7#  
 141 322.5 50.8 76.2#

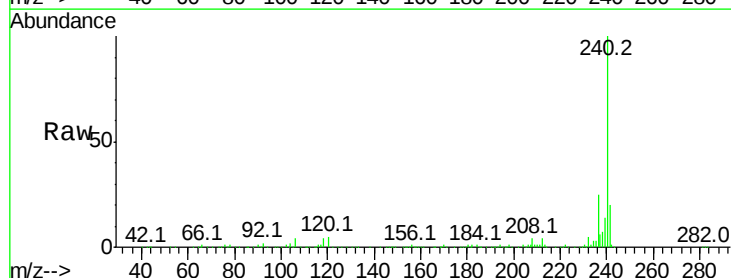


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

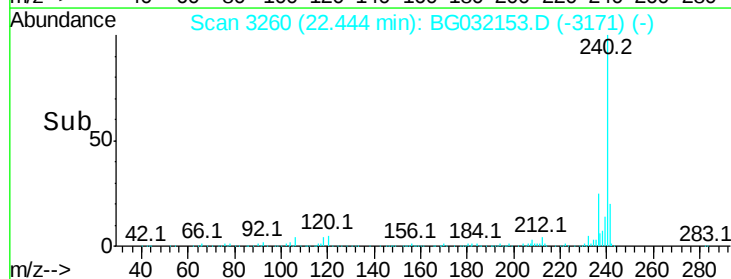
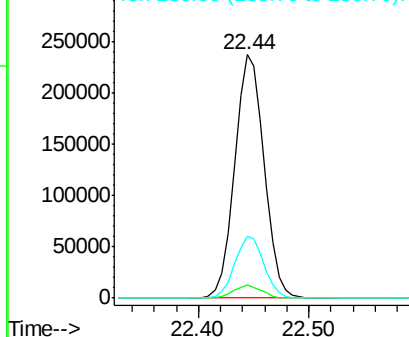


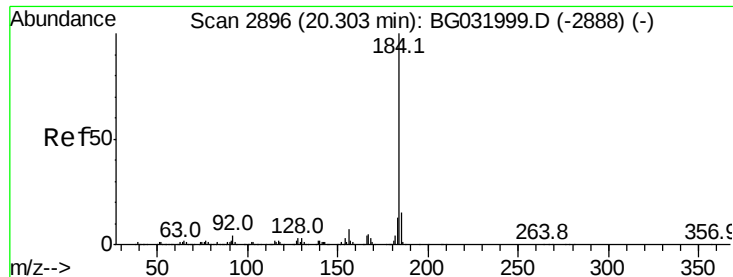
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.44 min Scan# 3260  
 Delta R.T. -0.01 min  
 Lab File: BG032153.D  
 Acq: 19 Jan 2018 15:58

Tgt Ion:240 Resp: 444401  
 Ion Ratio Lower Upper  
 240 100  
 120 5.2 6.8 10.2#  
 236 25.5 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: 2.042 ng

RT: 20.65 min Scan# 2954

Delta R.T. 0.37 min

Lab File: BG032153.D

Acq: 19 Jan 2018 15:58

Instrument :

BNA\_G

ClientSampleId :

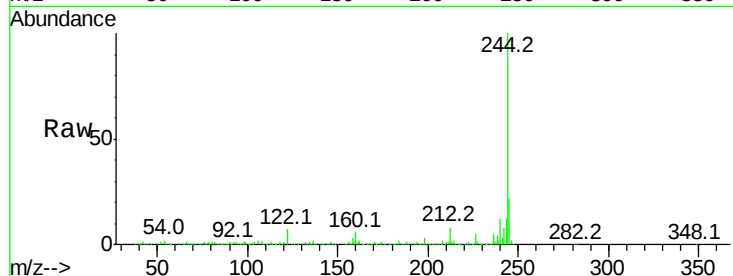
Tot Ion:184 Resp: 22691

Ion Ratio Lower Upper

184 100

185 14.2 11.1 16.7

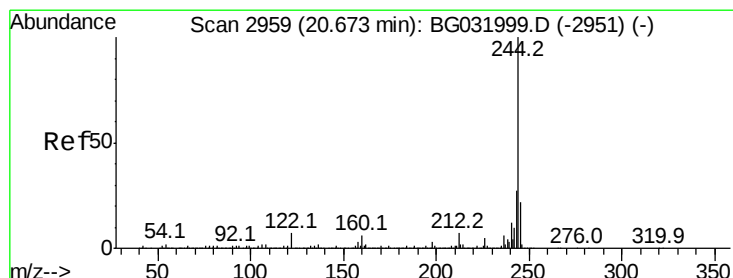
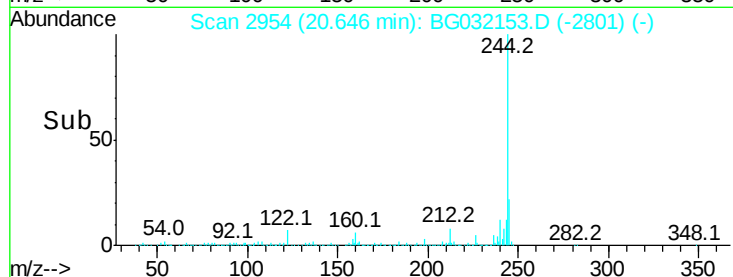
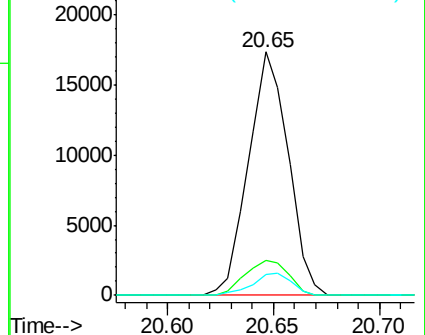
183 8.3 10.6 16.0#



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: 81.992 ng

RT: 20.65 min Scan# 2954

Delta R.T. -0.01 min

Lab File: BG032153.D

Acq: 19 Jan 2018 15:58

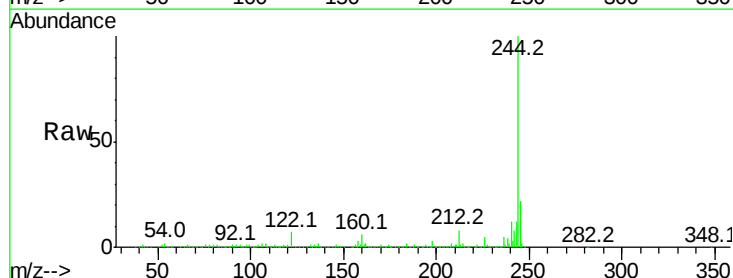
Tgt Ion:244 Resp: 1650199

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

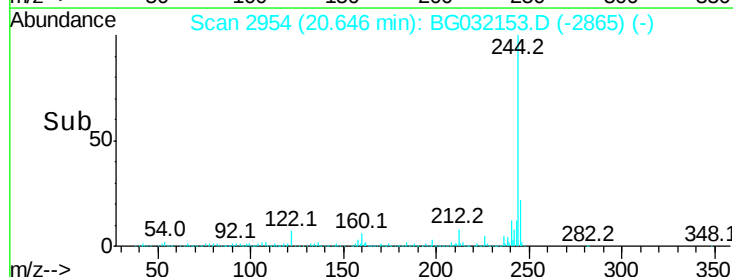
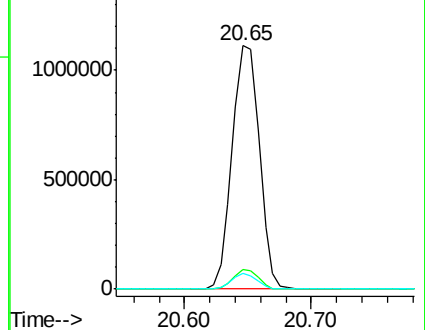
122 6.6 7.0 10.4#

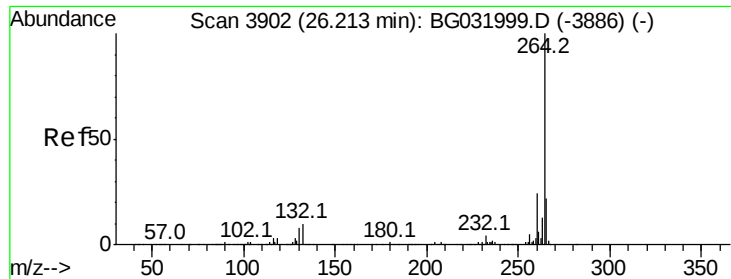


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

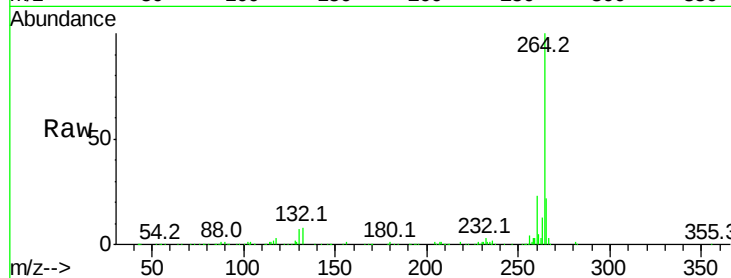




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.15 min Scan# 3890  
Delta R.T. -0.01 min  
Lab File: BG032153.D  
Acq: 19 Jan 2018 15:58

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 17.4  | 26.0  |
| 265     | 21.6  | 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

