

Data Path : Z:\HPCHEM1\BNA G\DATA\BG012318\  
 Data File : BG032246.D  
 Acq On : 24 Jan 2018 4:56  
 Operator : SJ/JU  
 Sample : J1186-05  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 24 07:45:40 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

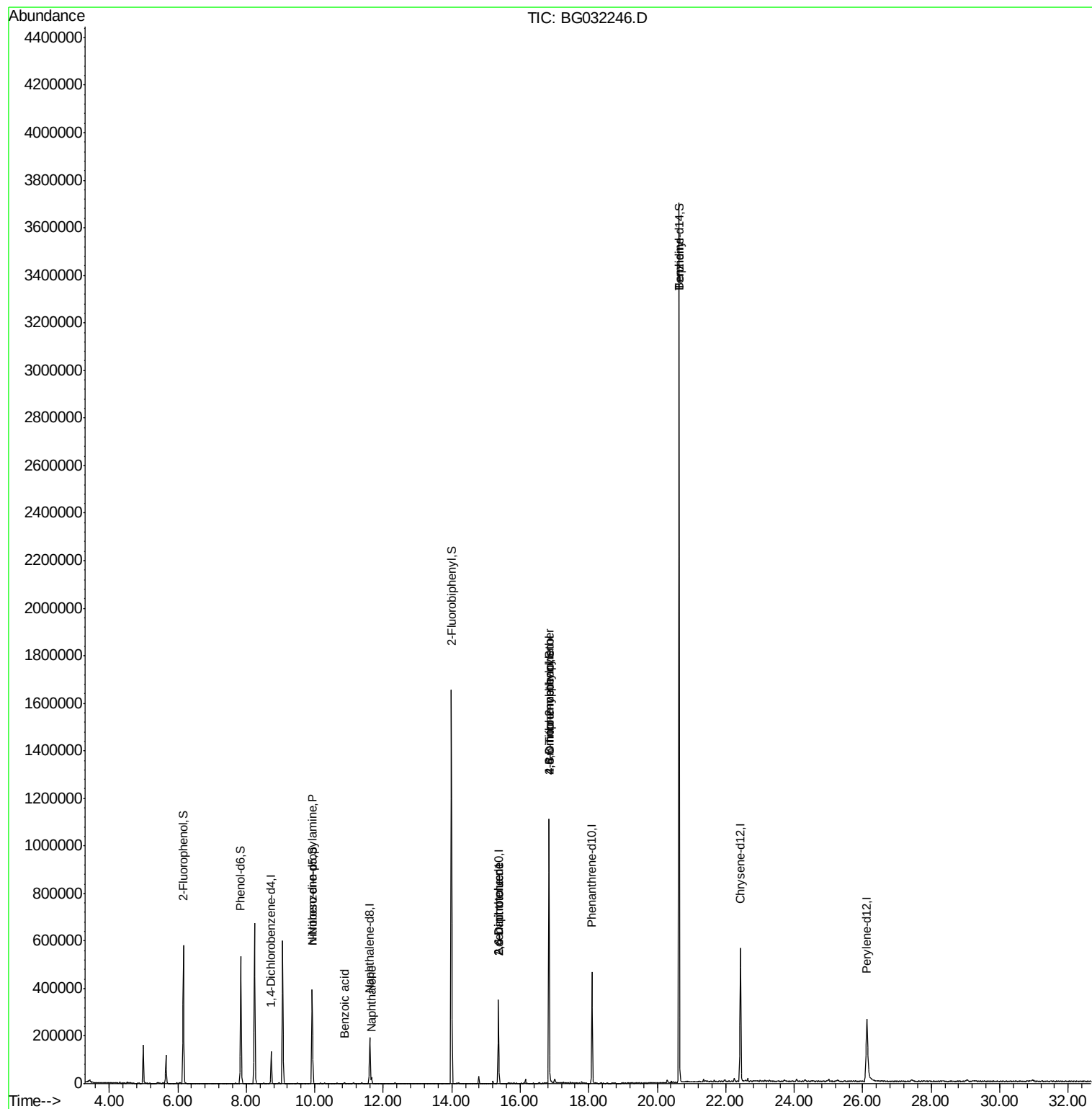
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.72  | 152  | 43950    | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8             | 11.61 | 136  | 184364   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10           | 15.36 | 164  | 131979   | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10           | 18.09 | 188  | 324543   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12               | 22.43 | 240  | 427382   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12               | 26.13 | 264  | 451666   | 20.00  | ng    | -0.03       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 6.16  | 112  | 291285   | 121.22 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.84  | 99   | 325640   | 107.60 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.93  | 82   | 248822   | 91.31  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol       | 16.84 | 330  | 252892   | 115.80 | ng    | -0.02       |
| 44) 2-Fluorobiphenyl           | 13.99 | 172  | 1001863  | 94.13  | ng    | -0.01       |
| 78) Terphenyl-d14              | 20.64 | 244  | 1970529  | 101.81 | ng    | -0.01       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 35561    | 18.938 | ng    | Qvalue # 71 |
| 31) Naphthalene                | 11.66 | 128  | 26297    | 2.879  | ng    | # 96        |
| 32) Benzoic acid               | 10.87 | 122  | 156      | 5.324  | ng    | # 1         |
| 50) 2,6-Dinitrotoluene         | 15.36 | 165  | 17150    | 7.154  | ng    | # 22        |
| 56) 2,4-Dinitrotoluene         | 15.36 | 165  | 17150    | 5.314  | ng    | # 19        |
| 64) 4,6-Dinitro-2-methylphenol | 16.84 | 198  | 648      | 5.165  | ng    | # 33        |
| 66) 4-Bromophenyl-phenylether  | 16.84 | 248  | 21164    | 4.583  | ng    | # 1         |
| 76) Benzidine                  | 20.64 | 184  | 28287    | 2.647  | ng    | # 87        |

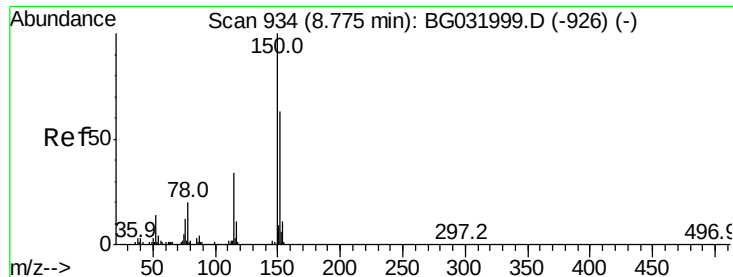
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.72 min Scan# 925

Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Instrument :

BNA\_G

ClientSampleId :

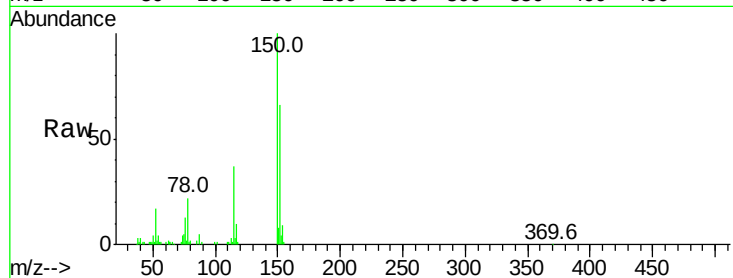
Tot Ion:152 Resp: 43950

Ion Ratio Lower Upper

152 100

150 151.8 126.6 189.8

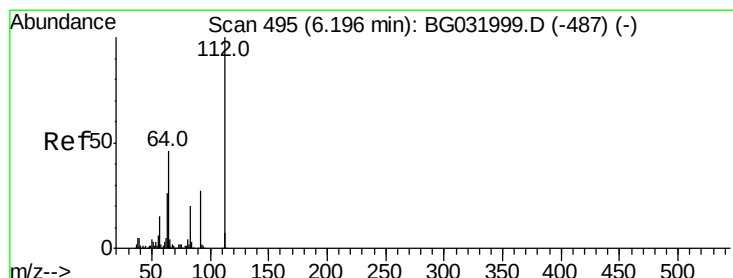
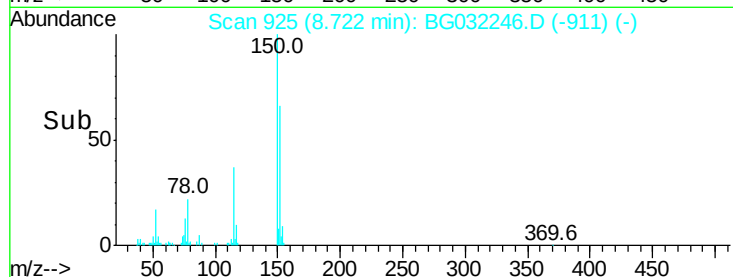
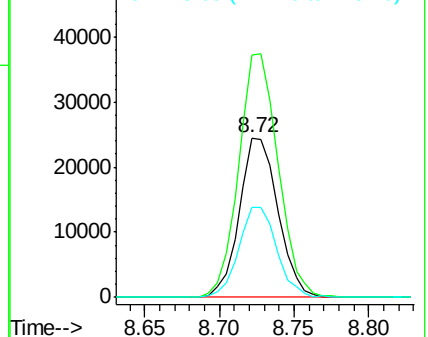
115 56.6 53.0 79.4



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: 121.215 ng

RT: 6.16 min Scan# 489

Delta R.T. -0.01 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

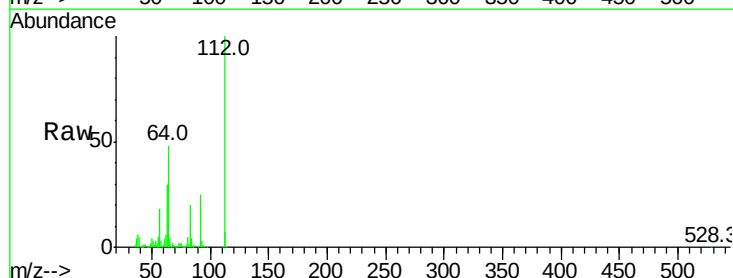
Tgt Ion:112 Resp: 291285

Ion Ratio Lower Upper

112 100

64 47.8 56.3 84.5#

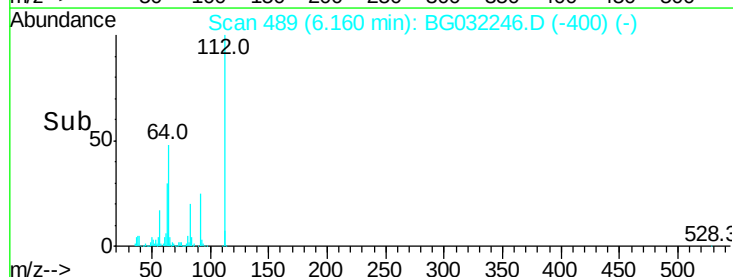
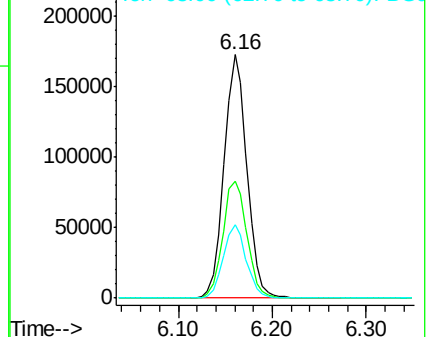
63 30.2 30.1 45.1

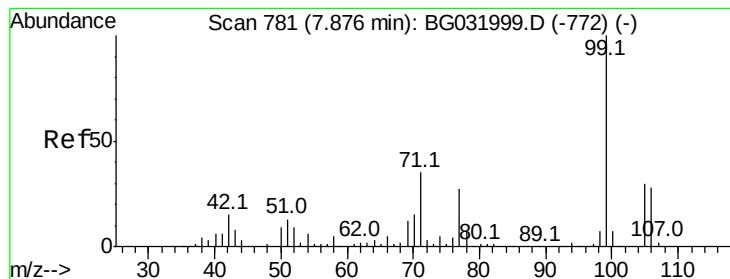


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 107.597 ng

RT: 7.84 min Scan# 775

Delta R.T. -0.01 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Instrument :

BNA\_G

ClientSampleId :

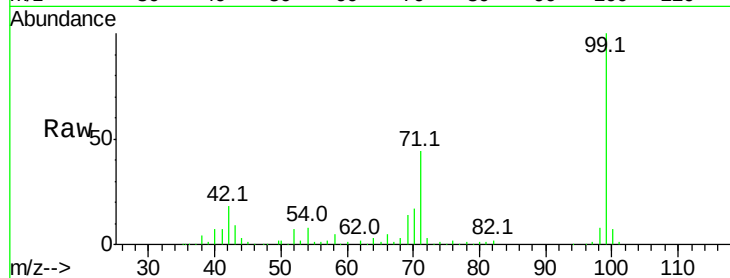
Tot Ion: 99 Resp: 325640

Ion Ratio Lower Upper

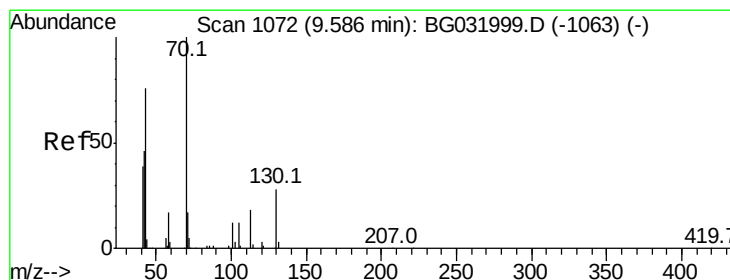
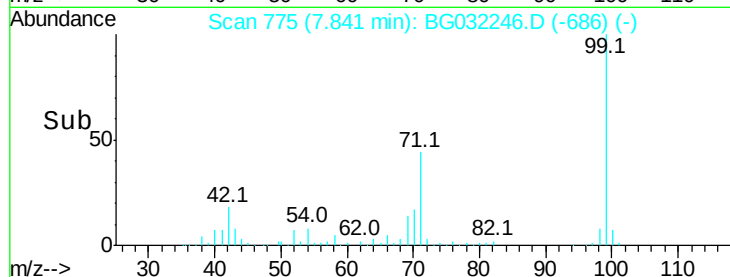
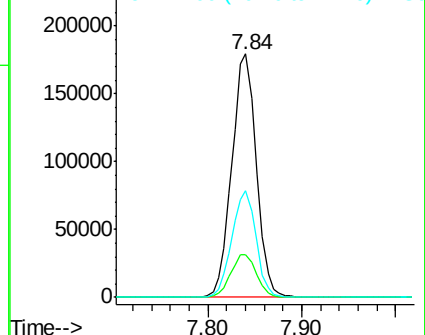
99 100

42 17.7 14.1 21.1

71 43.6 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: 18.938 ng

RT: 9.92 min Scan# 1129

Delta R.T. 0.36 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Tgt Ion: 70 Resp: 35561

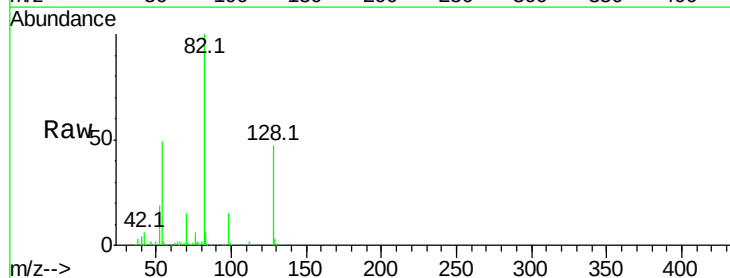
Ion Ratio Lower Upper

70 100

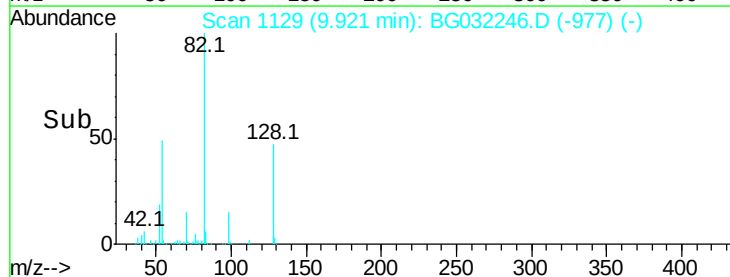
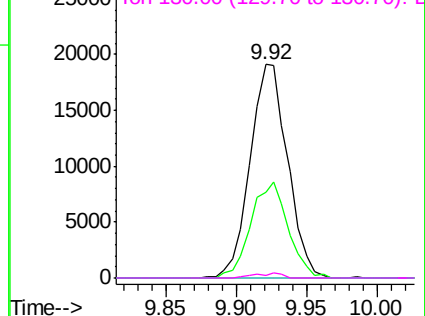
42 40.0 49.1 73.7#

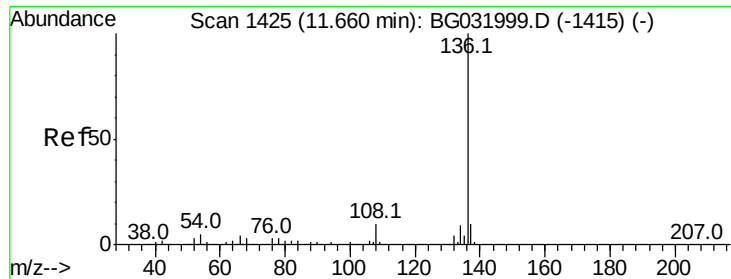
101 0.0 8.5 12.7#

130 1.3 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

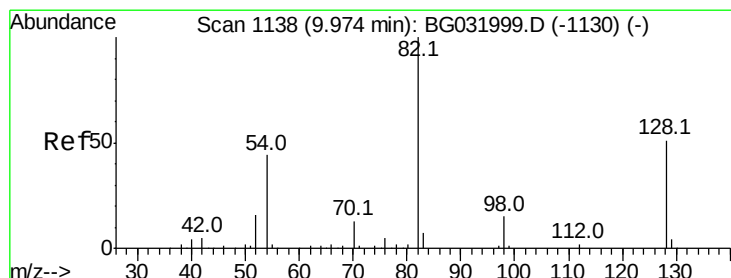
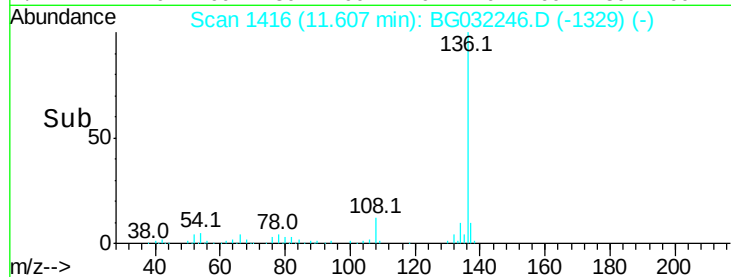
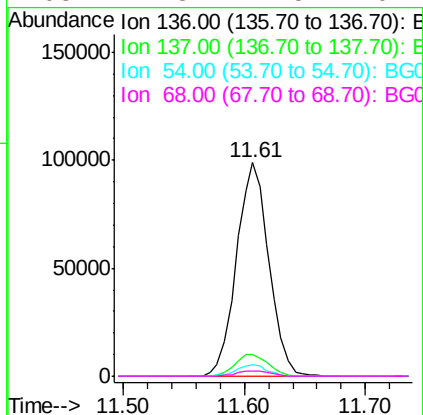
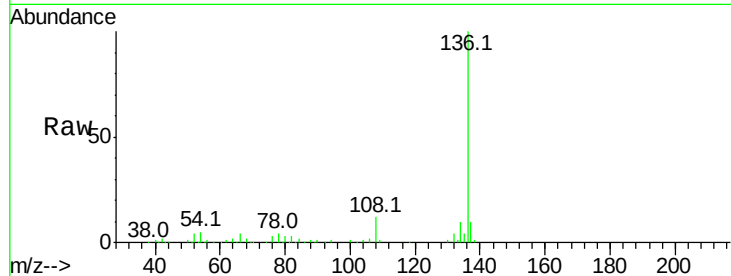




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.61 min Scan# 1416  
Delta R.T. -0.02 min  
Lab File: BG032246.D  
Acq: 24 Jan 2018 4:56

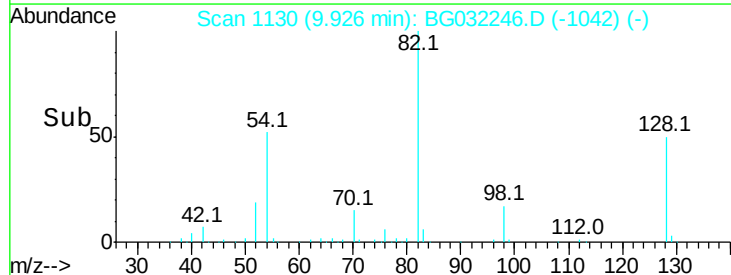
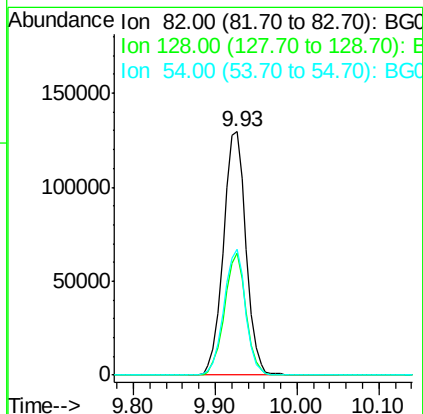
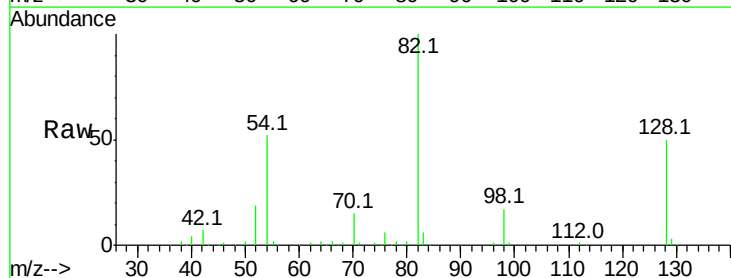
Instrument :  
BNA\_G  
ClientSampled :

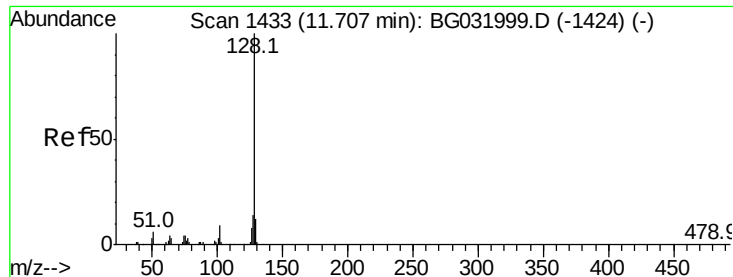
|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 184364     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 10.5  | 9.2 13.8   |
| 54          | 5.4   | 10.3 15.5# |
| 68          | 2.3   | 4.5 6.7#   |



#23  
Nitrobenzene-d5  
Concen: 91.308 ng  
RT: 9.93 min Scan# 1130  
Delta R.T. -0.01 min  
Lab File: BG032246.D  
Acq: 24 Jan 2018 4:56

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 248822     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 50.0  | 29.7 44.5# |
| 54          | 51.9  | 43.1 64.7  |





#31

Naphthalene

Concen: 2.879 ng

RT: 11.66 min Scan# 1425

Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Instrument :

BNA\_G

ClientSampleId :

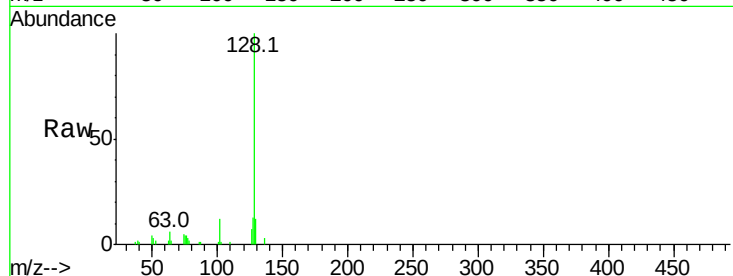
Tot Ion:128 Resp: 26297

Ion Ratio Lower Upper

128 100

129 11.8 8.6 12.8

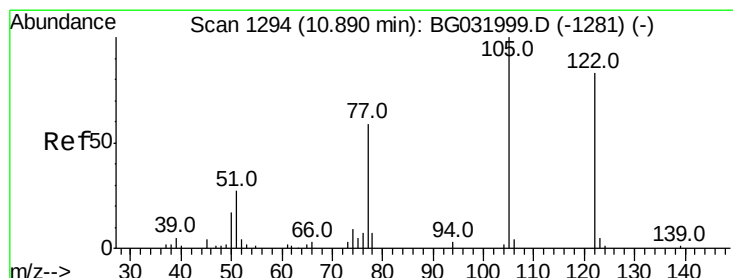
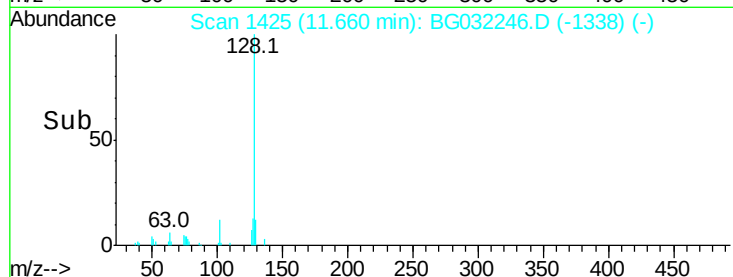
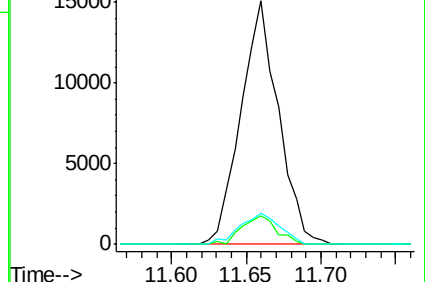
127 12.7 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 5.324 ng

RT: 10.87 min Scan# 1290

Delta R.T. 0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

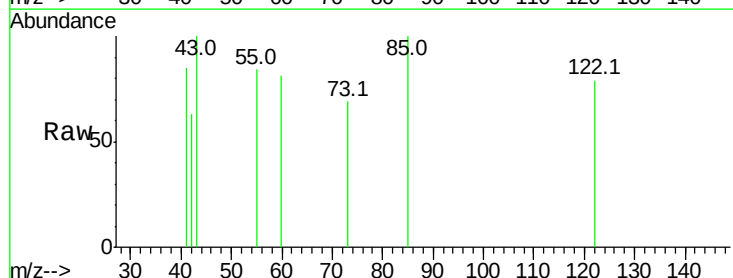
Tgt Ion:122 Resp: 156

Ion Ratio Lower Upper

122 100

105 0.0 123.5 163.5#

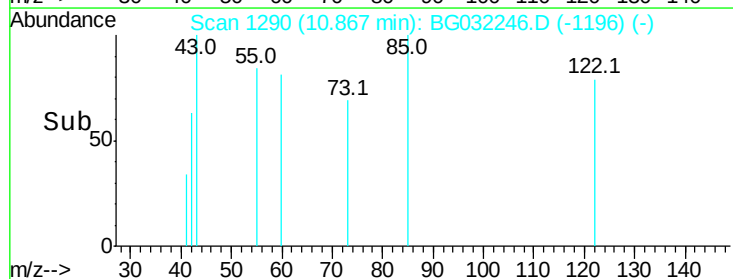
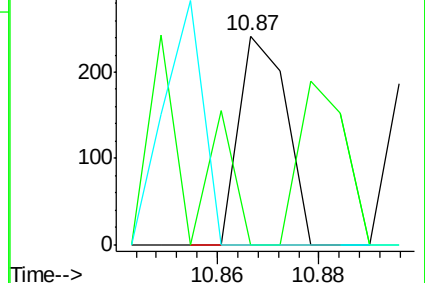
77 0.0 85.7 125.7#

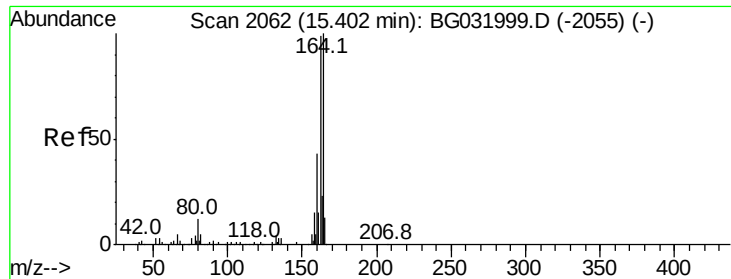


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BG





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.36 min Scan# 2055

Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

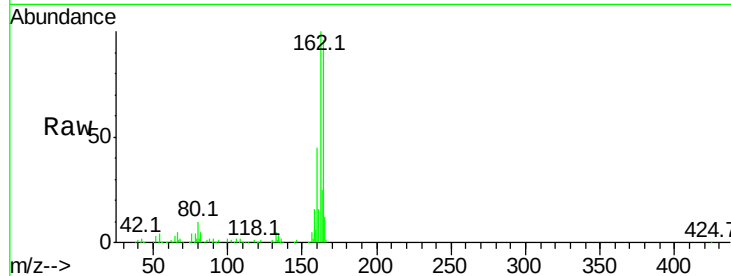
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 131979

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 103.9 | 78.8  | 118.2 |
| 160 | 46.6  | 35.4  | 53.0  |

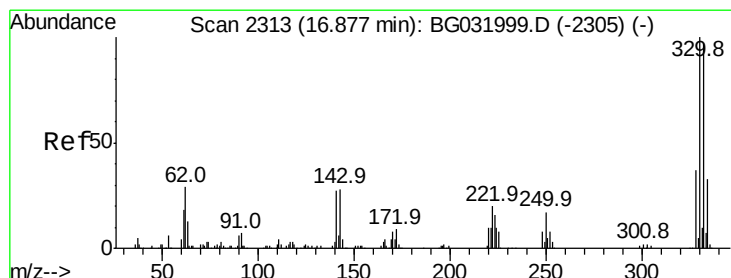
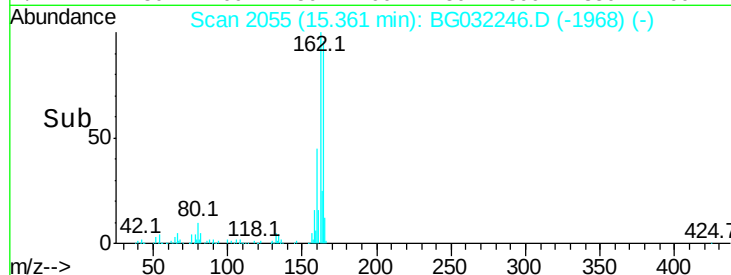
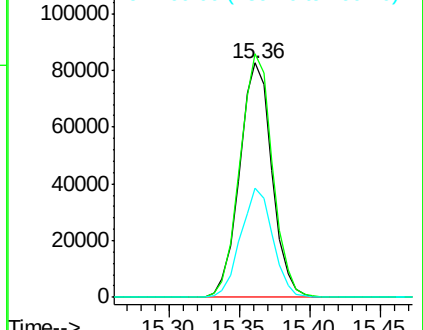


Abundance

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: 115.796 ng

RT: 16.84 min Scan# 2306

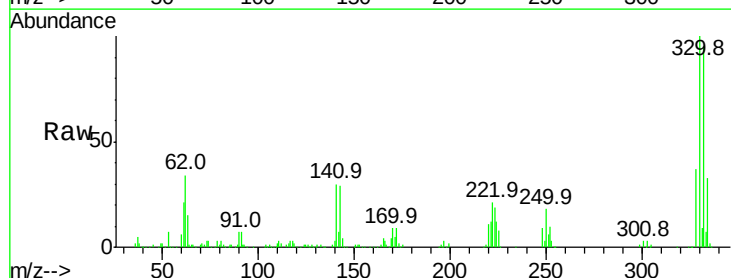
Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Tgt Ion:330 Resp: 252892

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 94.9  | 77.0  | 115.6 |
| 141 | 29.4  | 25.2  | 37.8  |

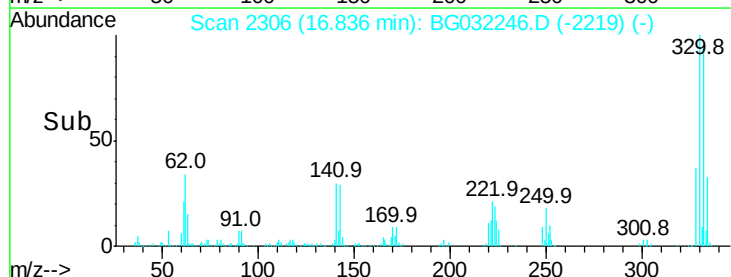
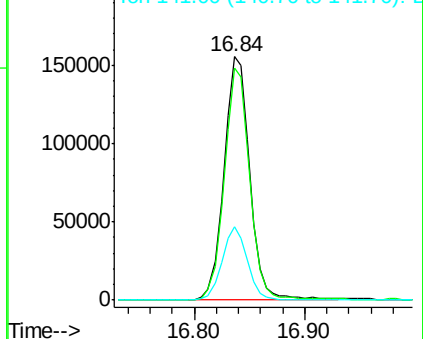


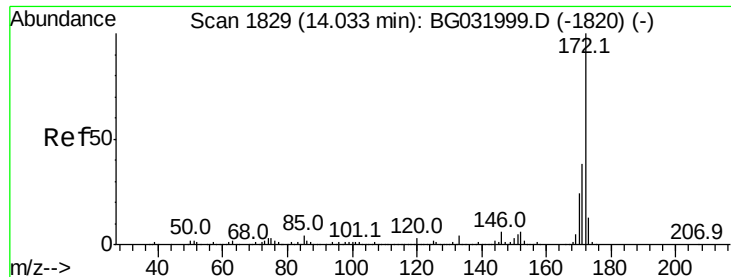
Abundance

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



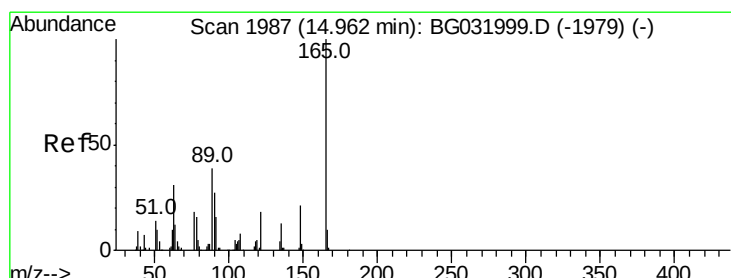
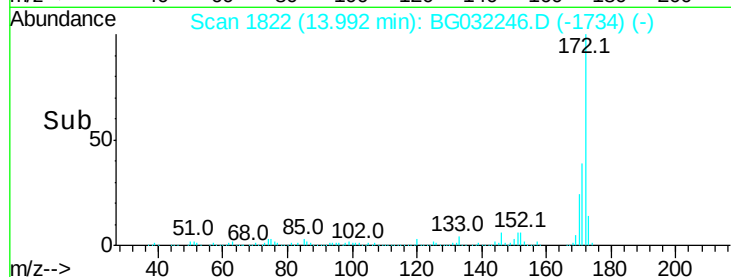
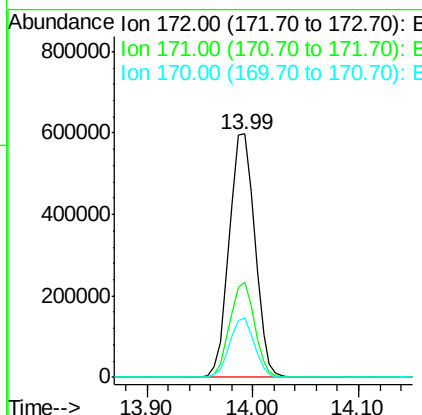
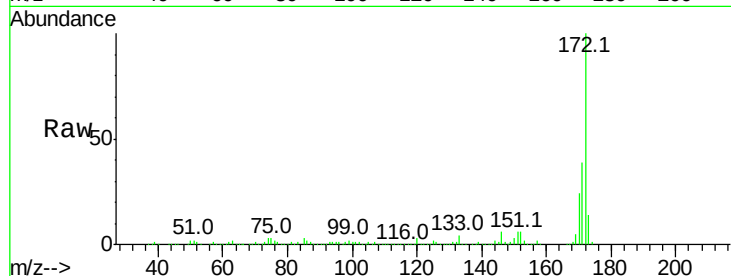


#44  
 2-Fluorobiphenyl  
 Concen: 94.126 ng  
 RT: 13.99 min Scan# 1822  
 Delta R.T. -0.01 min  
 Lab File: BG032246.D  
 Acq: 24 Jan 2018 4:56

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1001863  

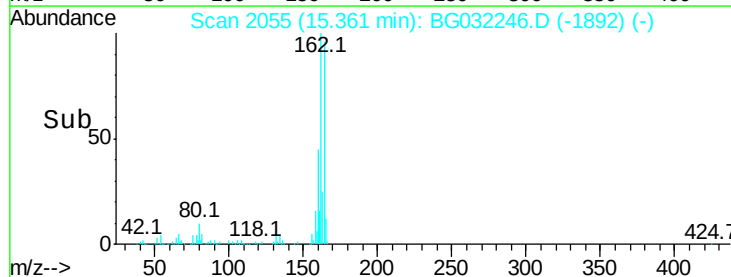
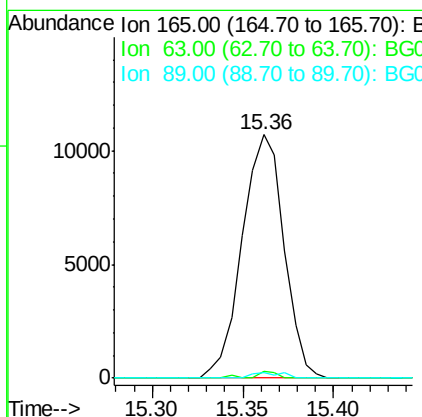
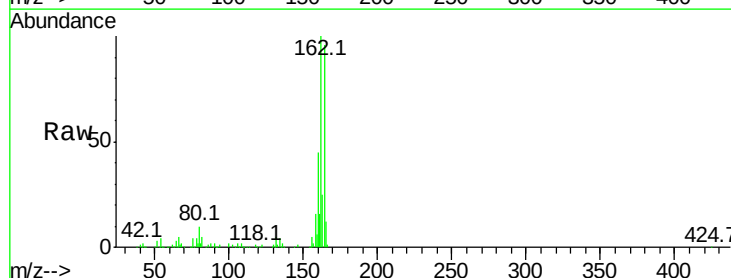
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 39.0  | 30.0  | 45.0  |
| 170 | 24.3  | 19.5  | 29.3  |



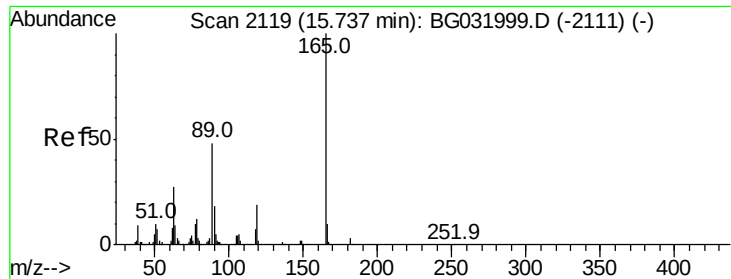
#50  
 2,6-Dinitrotoluene  
 Concen: 7.154 ng  
 RT: 15.36 min Scan# 2055  
 Delta R.T. 0.43 min  
 Lab File: BG032246.D  
 Acq: 24 Jan 2018 4:56

Tgt Ion:165 Resp: 17150  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 2.8   | 52.7  | 79.1# |
| 89  | 2.4   | 49.2  | 73.8# |







#56

2,4-Dinitrotoluene

Concen: 5.314 ng

RT: 15.36 min Scan# 2055

Delta R.T. -0.36 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:165 Resp: 17150

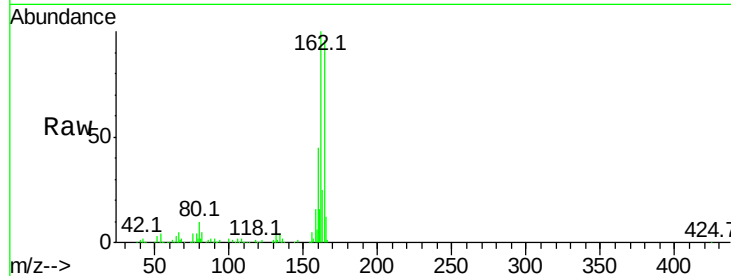
Ion Ratio Lower Upper

165 100

63 2.8 42.0 63.0#

89 2.4 66.9 100.3#

182 0.0 2.6 3.8#

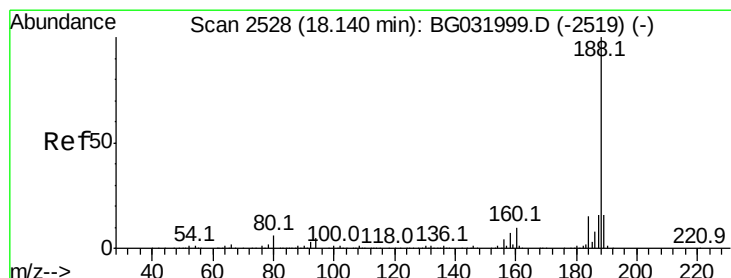
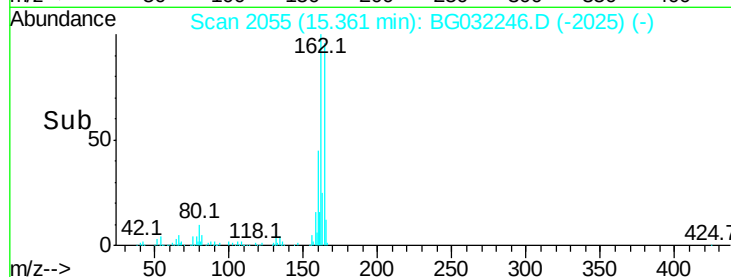
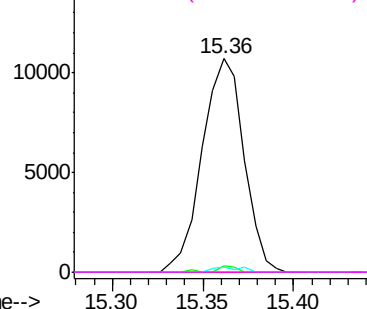


Abundance Ion 165.00 (164.70 to 165.70): E

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: 18.09 min Scan# 2520

Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

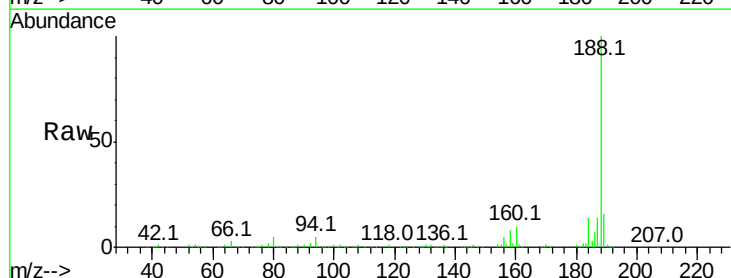
Tgt Ion:188 Resp: 324543

Ion Ratio Lower Upper

188 100

94 4.5 6.9 10.3#

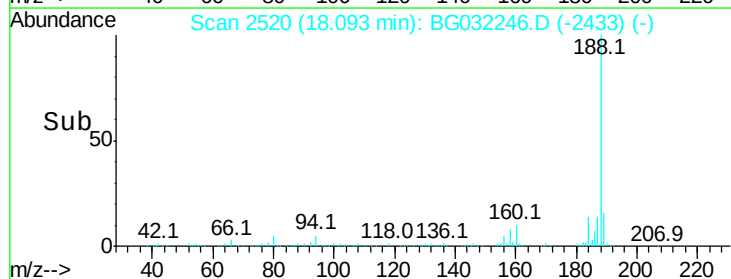
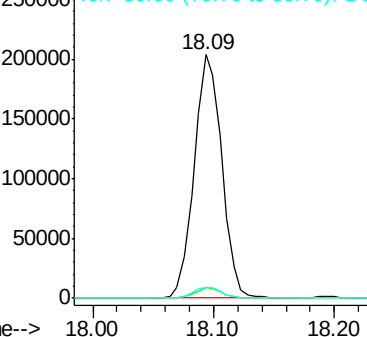
80 4.5 7.7 11.5#

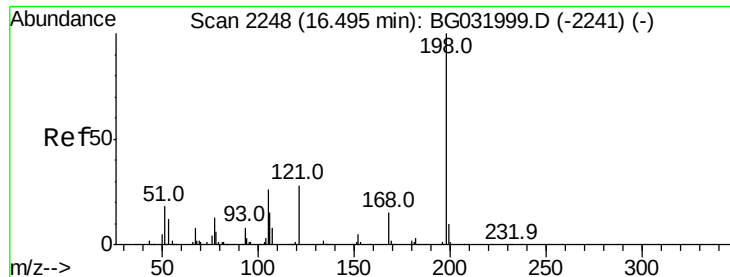


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

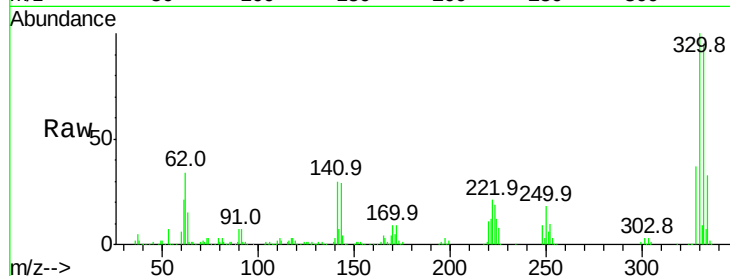




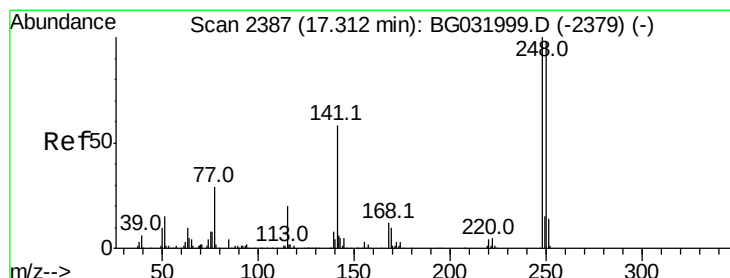
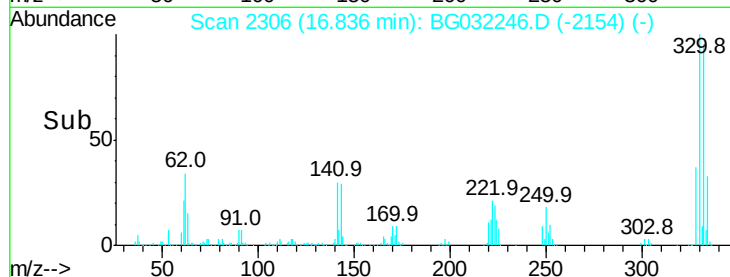
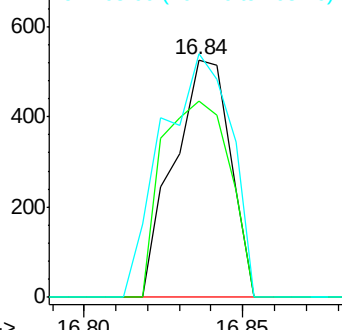
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.165 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. 0.36 min  
 Lab File: BG032246.D  
 Acq: 24 Jan 2018 4:56

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:198 Resp: 648  
 Ion Ratio Lower Upper  
 198 100  
 51 82.5 30.6 70.6#  
 105 102.5 23.8 63.8#

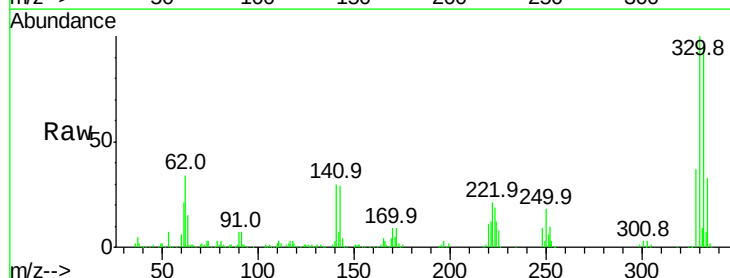


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

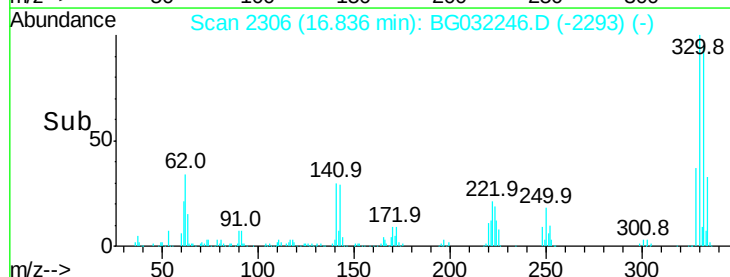
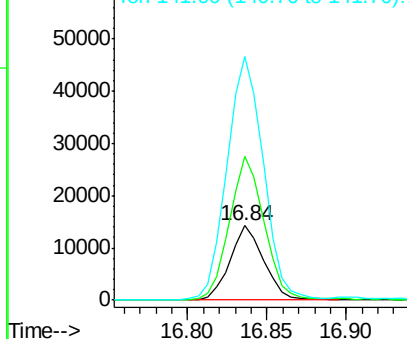


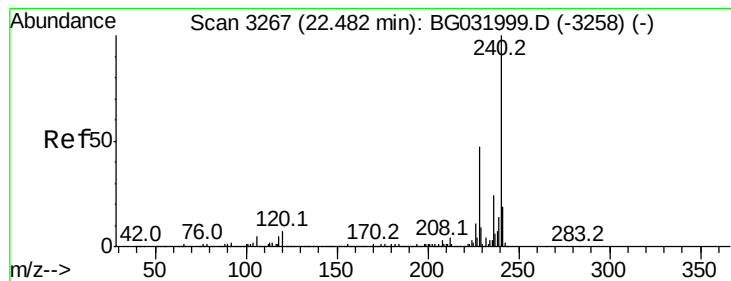
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.583 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. -0.45 min  
 Lab File: BG032246.D  
 Acq: 24 Jan 2018 4:56

Tgt Ion:248 Resp: 21164  
 Ion Ratio Lower Upper  
 248 100  
 250 192.4 77.1 115.7#  
 141 326.3 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: 22.43 min Scan# 3258

Delta R.T. -0.02 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Instrument :

BNA\_G

ClientSampleId :

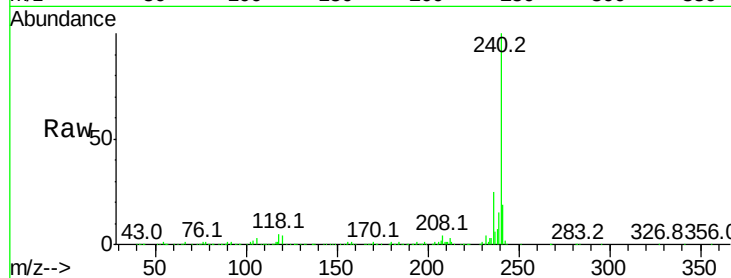
Tot Ion:240 Resp: 427382

Ion Ratio Lower Upper

240 100

120 4.3 6.8 10.2#

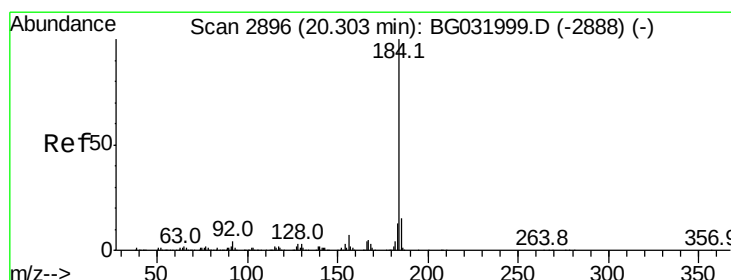
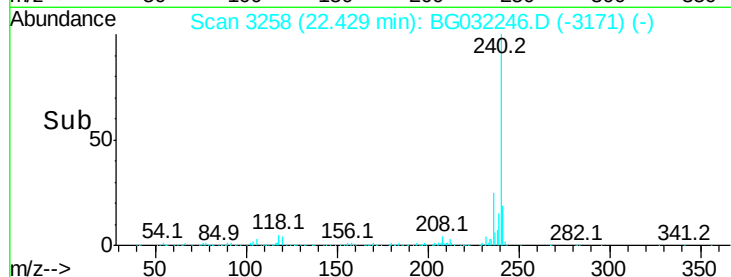
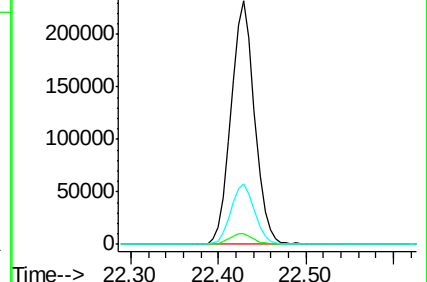
236 25.1 20.9 31.3



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: 2.647 ng

RT: 20.64 min Scan# 2953

Delta R.T. 0.36 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

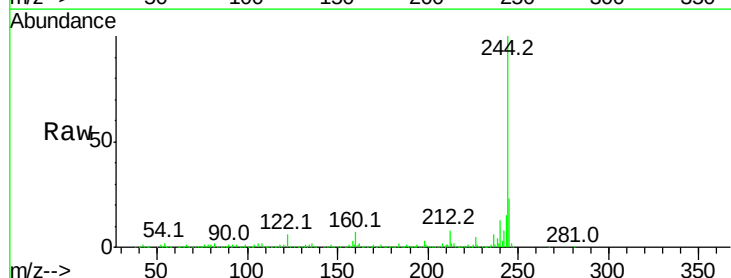
Tgt Ion:184 Resp: 28287

Ion Ratio Lower Upper

184 100

185 20.2 11.1 16.7#

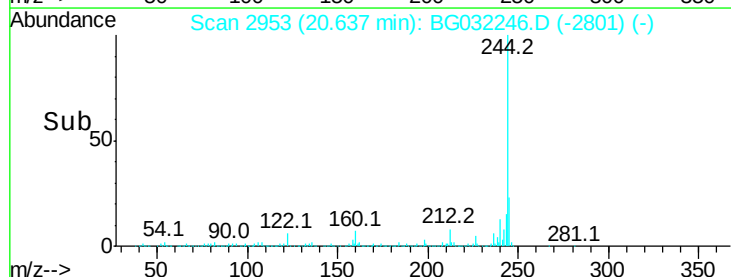
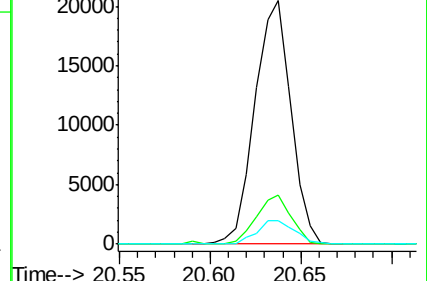
183 9.4 10.6 16.0#

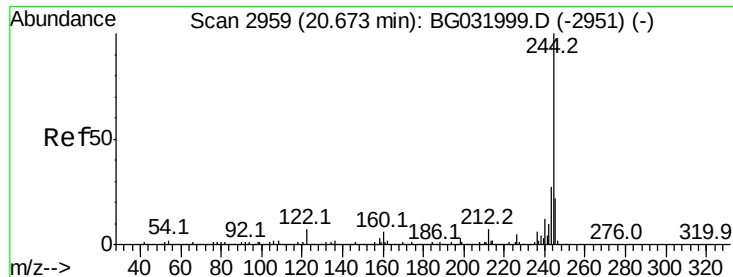


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 101.806 ng

RT: 20.64 min Scan# 2953

Delta R.T. -0.01 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

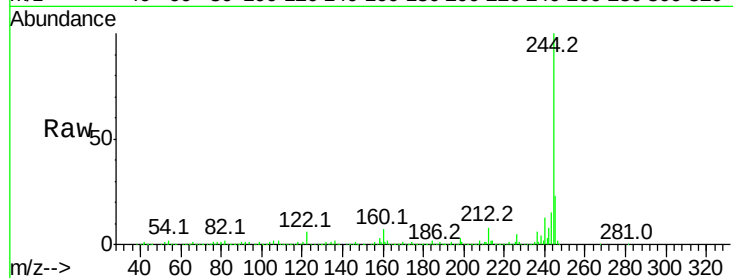
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1970529

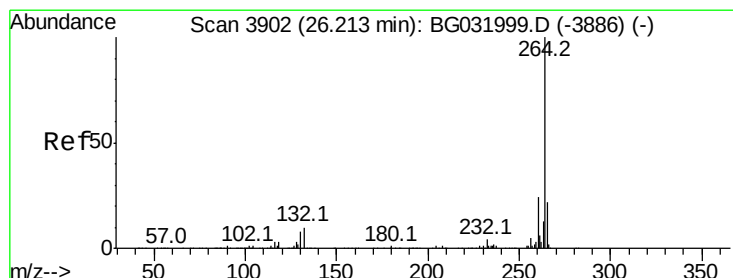
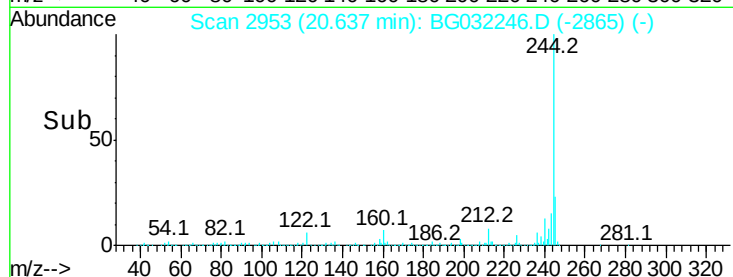
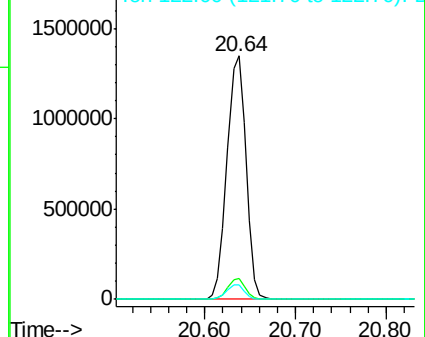
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.4   | 5.8   | 8.8   |
| 122 | 5.9   | 7.0   | 10.4  |



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: 26.13 min Scan# 3887

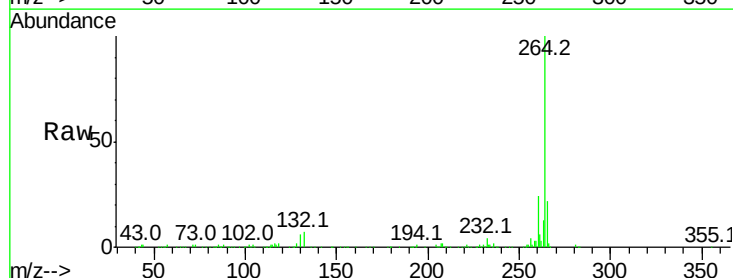
Delta R.T. -0.03 min

Lab File: BG032246.D

Acq: 24 Jan 2018 4:56

Tgt Ion:264 Resp: 451666

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 17.4  | 26.0  |
| 265 | 21.5  | 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

