

Data Path : Z:\HPCHEM1\BNA G\DATA\BG012718\  
 Data File : BG032358.D  
 Acq On : 27 Jan 2018 16:08  
 Operator : SJ/JU  
 Sample : PB106058BL  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 27 23:20:09 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 24 14:02:41 2018  
 Response via : Initial Calibration

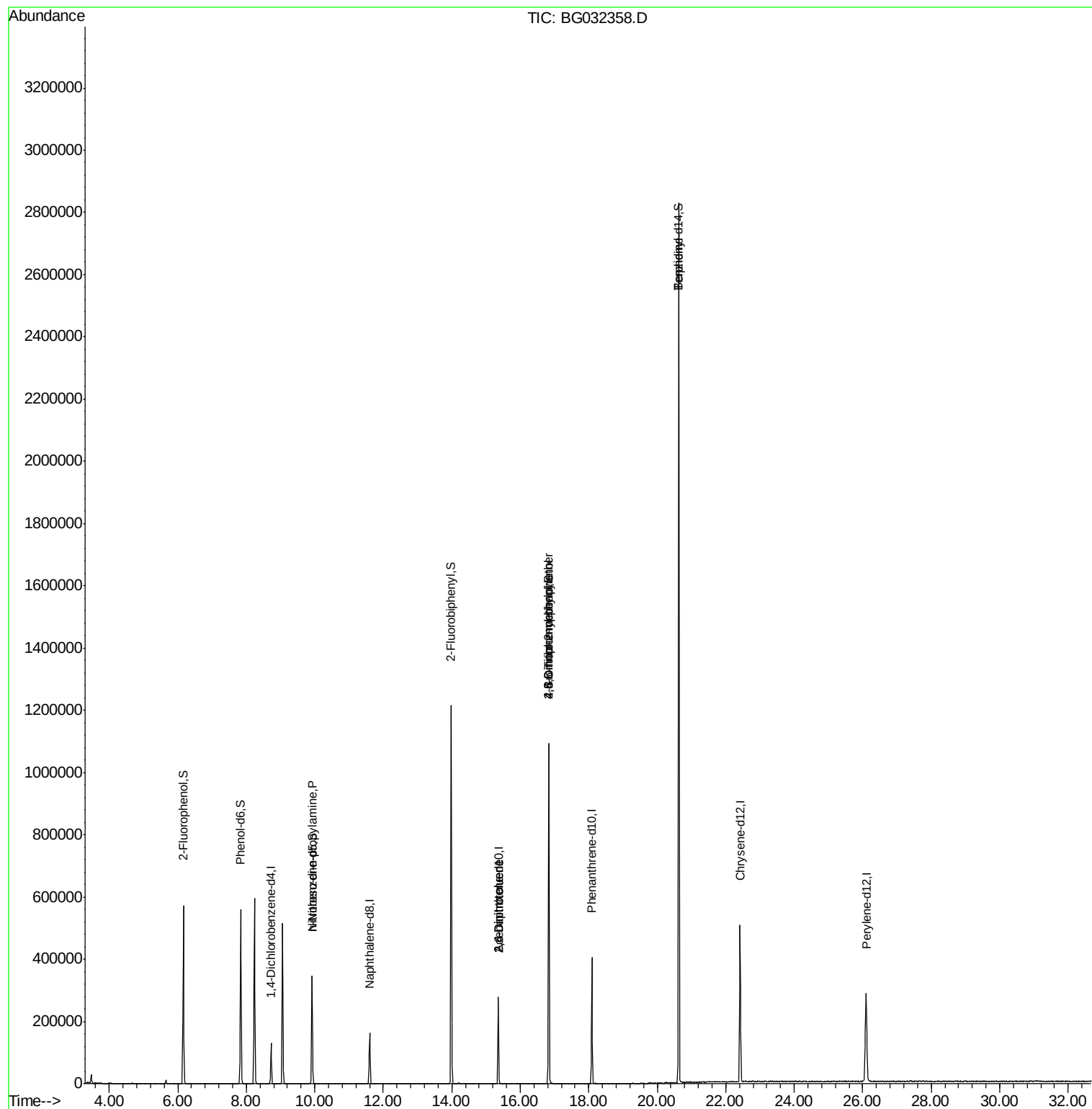
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.72  | 152  | 43426    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.60 | 136  | 155473   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.36 | 164  | 104623   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.09 | 188  | 281538   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.42 | 240  | 369954   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.10 | 264  | 396609   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.16  | 112  | 280370   | 118.08 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.83  | 99   | 333379   | 111.48 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.92  | 82   | 206623   | 89.91  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.83 | 330  | 242579   | 140.12 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.99 | 172  | 734721   | 87.08  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.63 | 244  | 1465199  | 87.45  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 30558    | 16.470 | ng    | # 76     |
| 50) 2,6-Dinitrotoluene         | 15.36 | 165  | 13493    | 7.100  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.36 | 165  | 13493    | 5.274  | ng    | # 18     |
| 64) 4,6-Dinitro-2-methylphenol | 16.84 | 198  | 814      | 5.290  | ng    | # 65     |
| 66) 4-Bromophenyl-phenylether  | 16.83 | 248  | 20921    | 5.223  | ng    | # 1      |
| 76) Benzidine                  | 20.63 | 184  | 20758    | 2.244  | ng    | 95       |

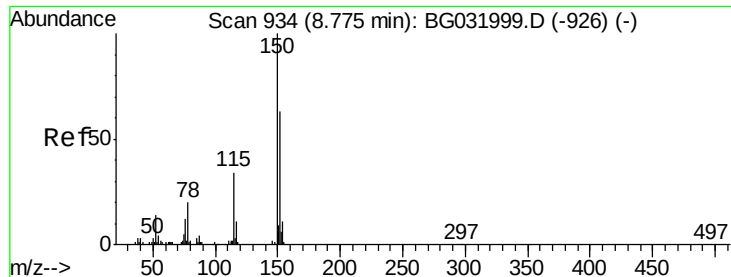
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG012718\  
Data File : BG032358.D  
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Sample : PB106058BL  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jan 27 23:20:09 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 24 14:02:41 2018  
Response via : Initial Calibration



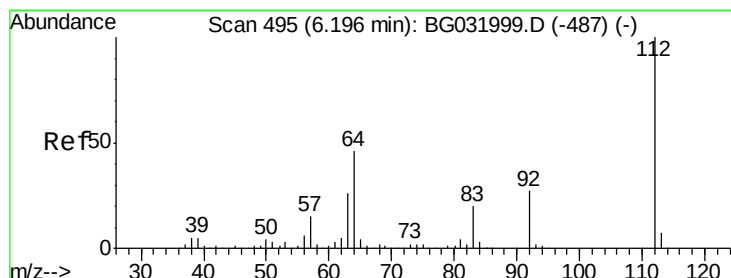
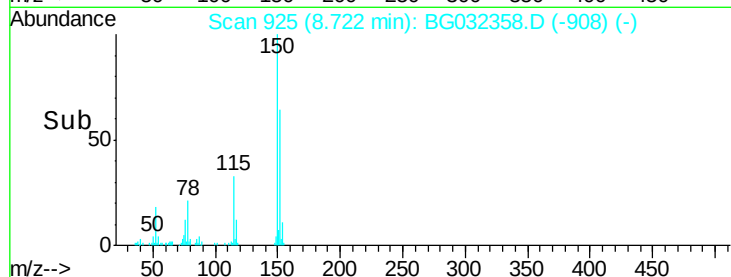
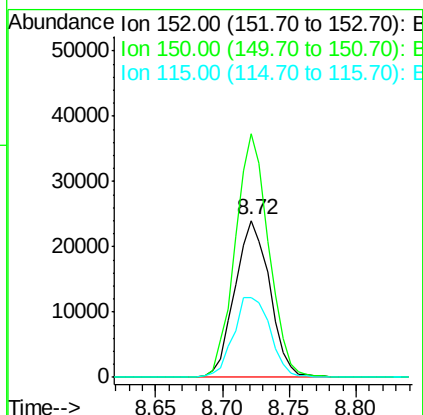
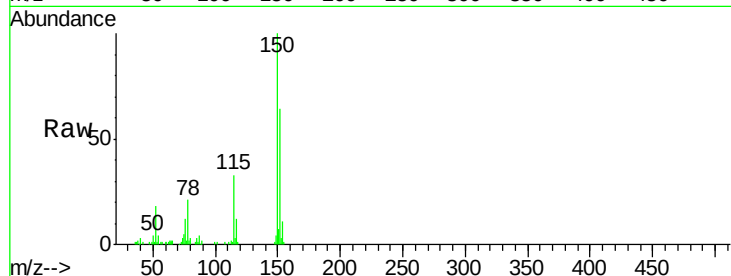


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.72 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: BG032358.D  
Acq: 27 Jan 2018 16:08

Instrument :  
BNA\_G  
ClientSampleId :

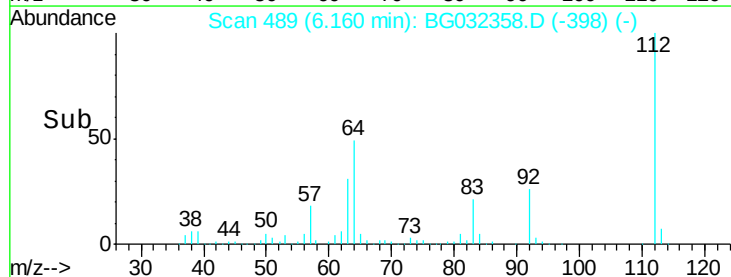
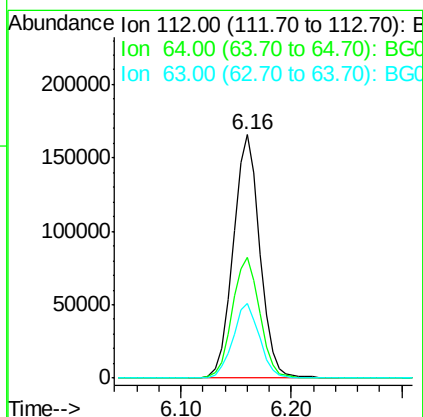
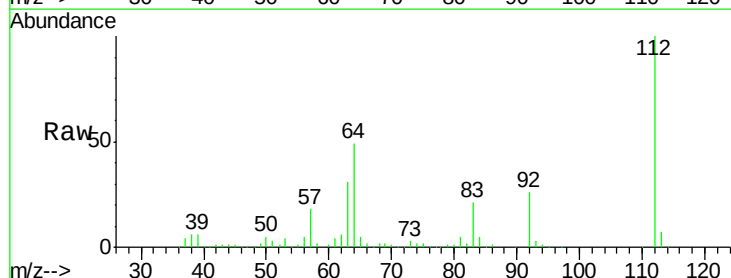
Tot Ion:152 Resp: 43426  
Ion Ratio Lower Upper  
152 100  
150 155.2 126.6 189.8  
115 51.1 53.0 79.4#

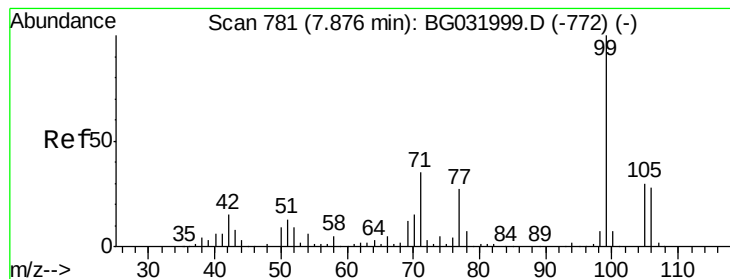


#5

2-Fluorophenol  
Concen: 118.081 ng  
RT: 6.16 min Scan# 489  
Delta R.T. 0.00 min  
Lab File: BG032358.D  
Acq: 27 Jan 2018 16:08

Tgt Ion:112 Resp: 280370  
Ion Ratio Lower Upper  
112 100  
64 49.5 56.3 84.5#  
63 30.7 30.1 45.1





#7

Phenol-d6

Concen: 111.483 ng

RT: 7.83 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Instrument :

BNA\_G

ClientSampled :

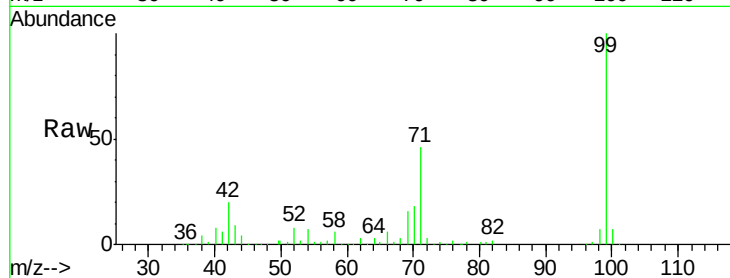
Tot Ion: 99 Resp: 333379

Ion Ratio Lower Upper

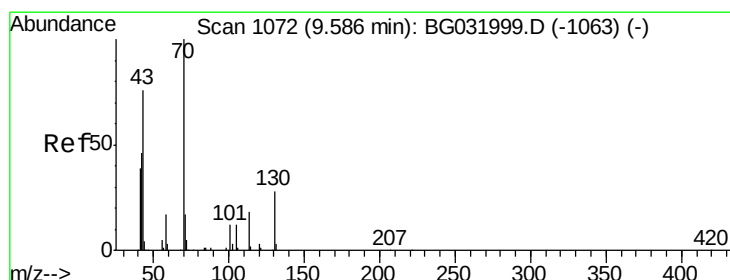
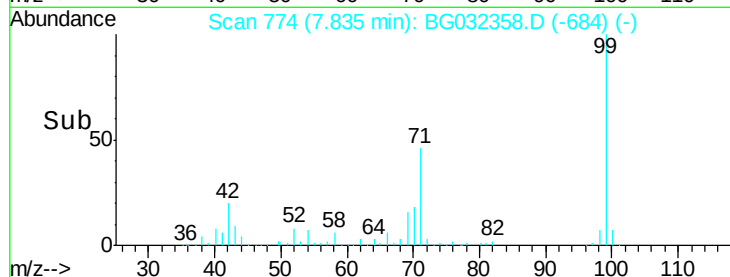
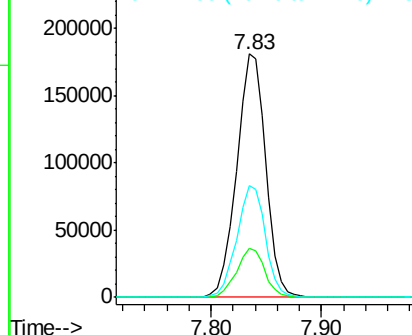
99 100

42 20.0 14.1 21.1

71 45.7 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



#19

n-Nitroso-di-n-propylamine

Concen: 16.470 ng

RT: 9.92 min Scan# 1129

Delta R.T. 0.38 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Tgt Ion: 70 Resp: 30558

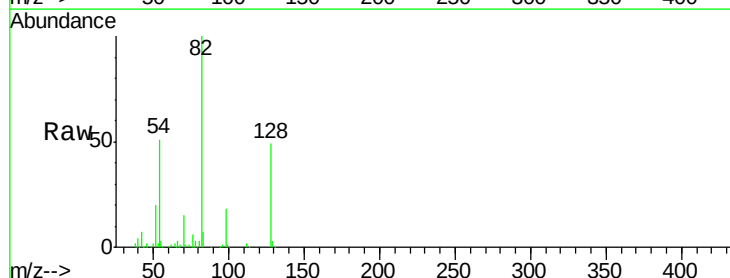
Ion Ratio Lower Upper

70 100

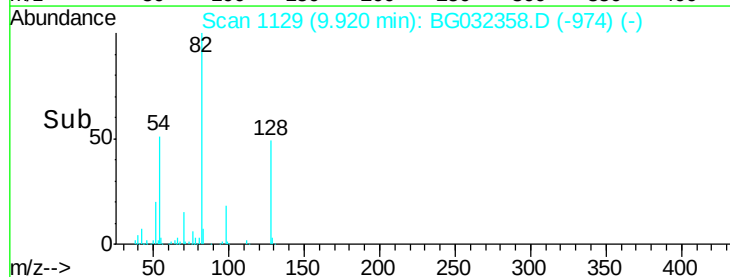
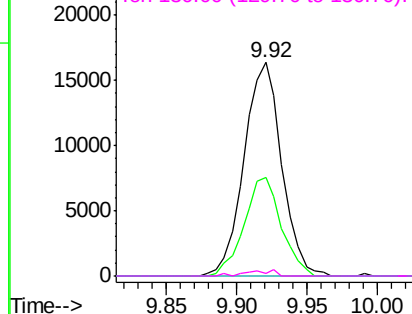
42 46.0 49.1 73.7#

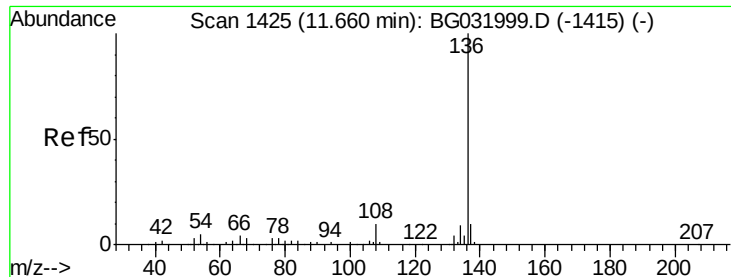
101 0.0 8.5 12.7#

130 1.0 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

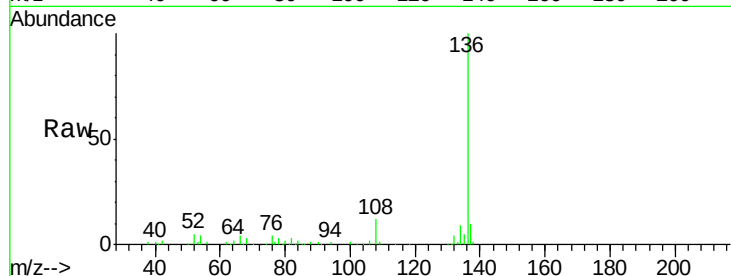




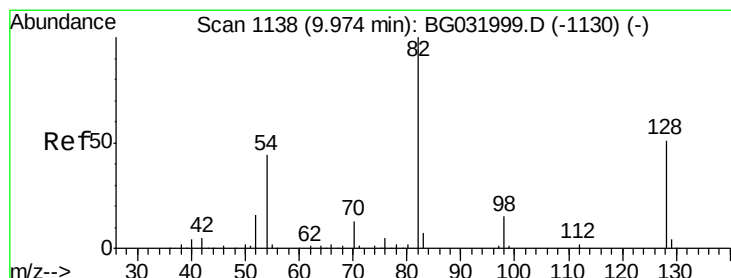
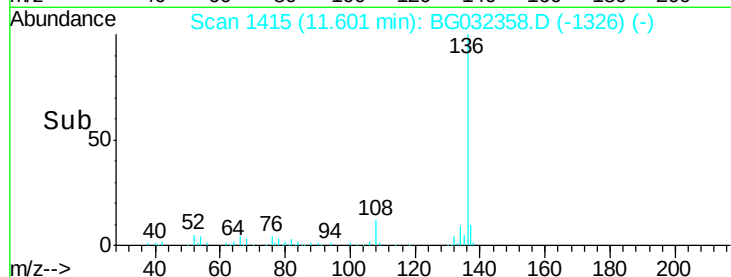
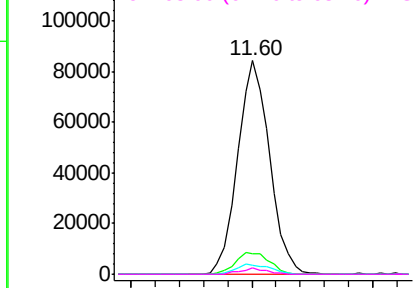
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BG032358.D  
Acq: 27 Jan 2018 16:08

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 155473     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 9.5   | 9.2 13.8   |
| 54          | 4.3   | 10.3 15.5# |
| 68          | 2.9   | 4.5 6.7#   |

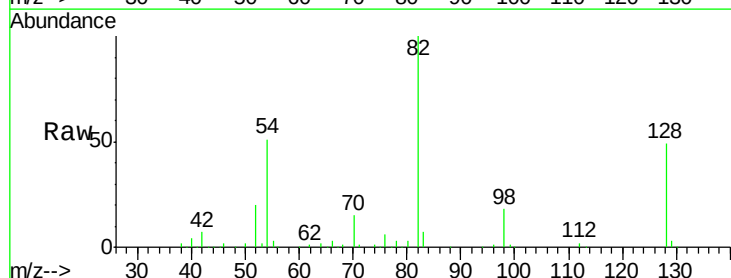


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B  
Ion 68.00 (67.70 to 68.70): B

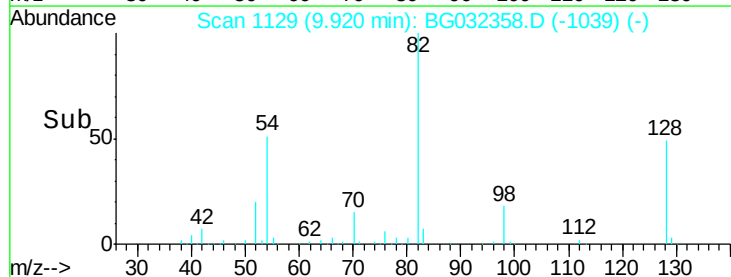
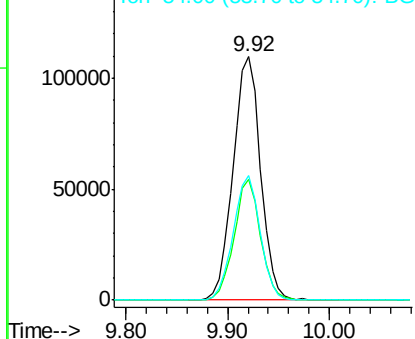


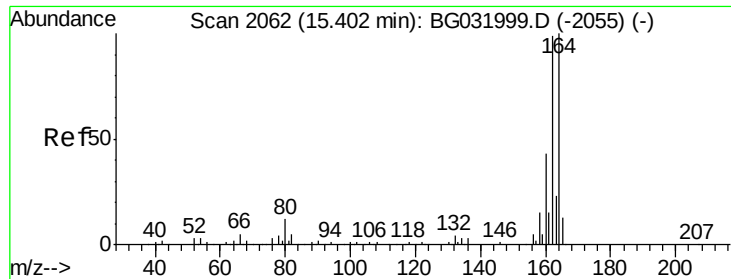
#23  
Nitrobenzene-d5  
Concen: 89.912 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BG032358.D  
Acq: 27 Jan 2018 16:08

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 206623     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 49.5  | 29.7 44.5# |
| 54          | 51.3  | 43.1 64.7  |



Abundance Ion 82.00 (81.70 to 82.70): B  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): B





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.36 min Scan# 2054

Delta R.T. -0.01 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Instrument :

BNA\_G

ClientSampleId :

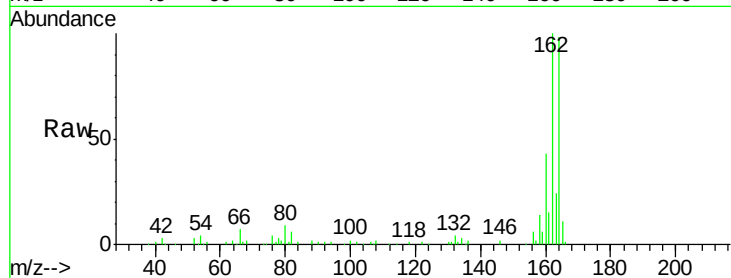
Tot Ion:164 Resp: 104623

Ion Ratio Lower Upper

164 100

162 102.2 78.8 118.2

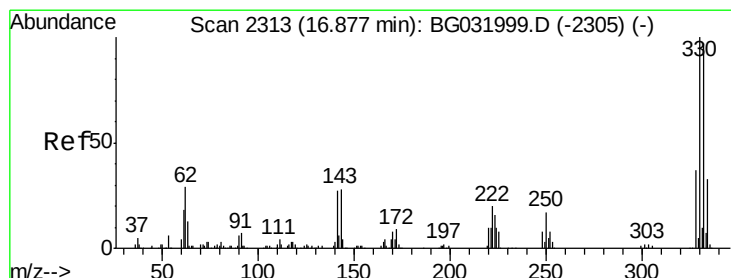
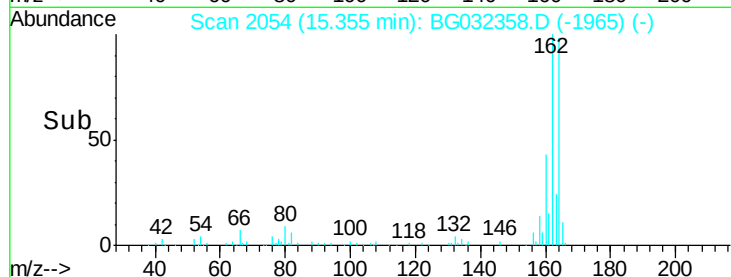
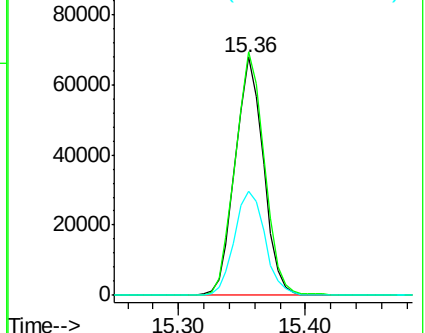
160 43.4 35.4 53.0



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: 140.117 ng

RT: 16.83 min Scan# 2305

Delta R.T. -0.01 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

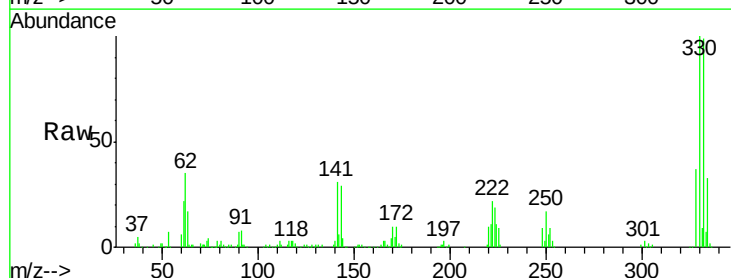
Tgt Ion:330 Resp: 242579

Ion Ratio Lower Upper

330 100

332 97.8 77.0 115.6

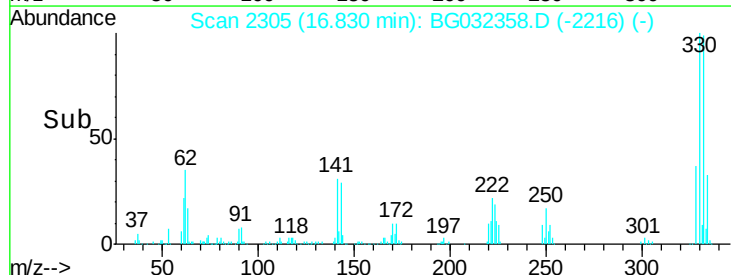
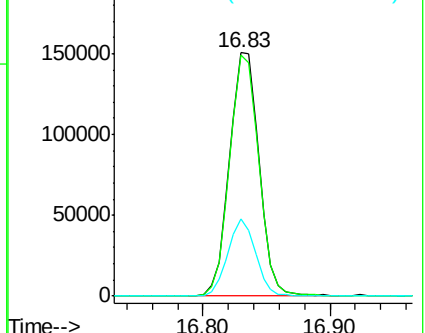
141 30.0 25.2 37.8

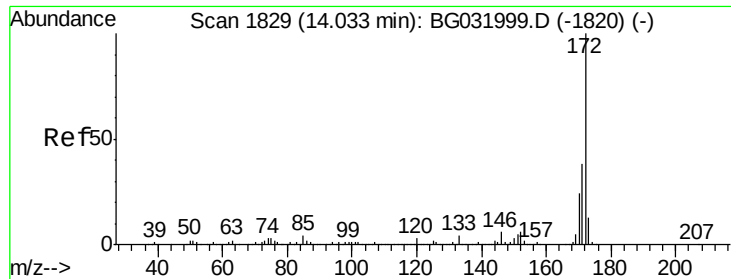


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

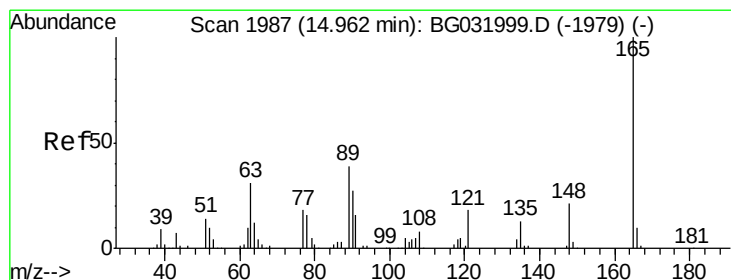
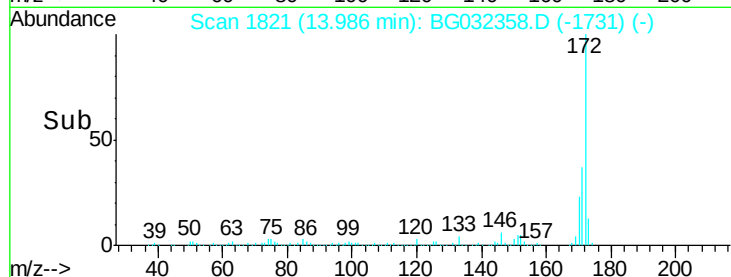
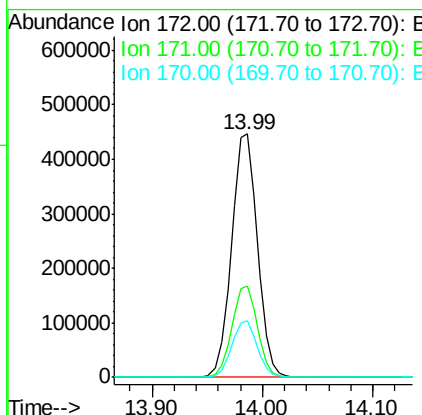
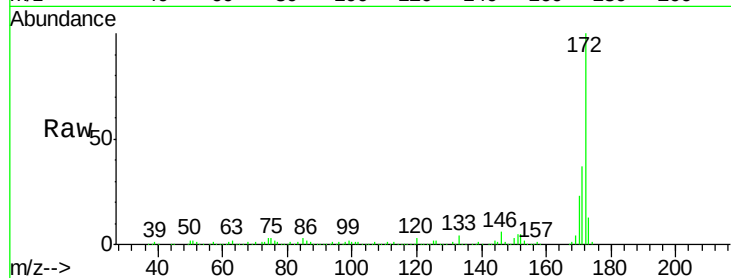




#44  
 2-Fluorobiphenyl  
 Concen: 87.076 ng  
 RT: 13.99 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: BG032358.D  
 Acq: 27 Jan 2018 16:08

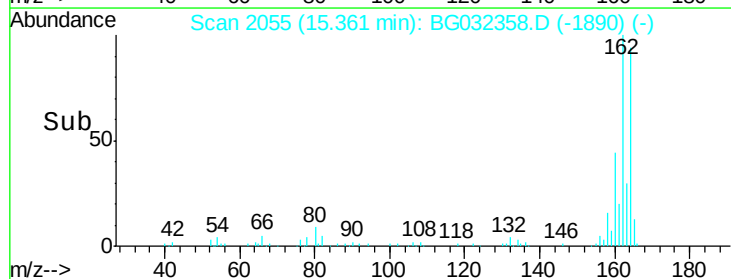
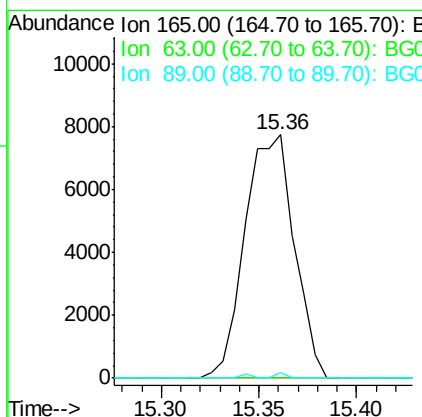
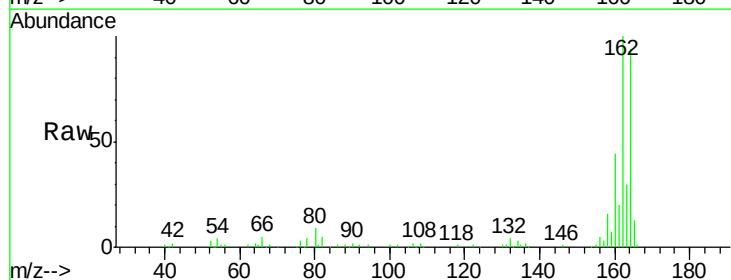
Instrument :  
 BNA\_G  
 ClientSampled :

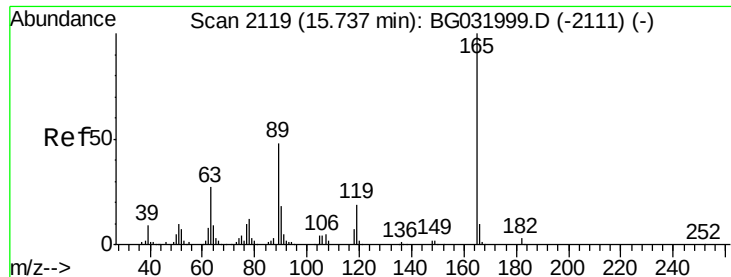
Tot Ion:172 Resp: 734721  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 30.0 45.0  
 170 23.4 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.100 ng  
 RT: 15.36 min Scan# 2055  
 Delta R.T. 0.44 min  
 Lab File: BG032358.D  
 Acq: 27 Jan 2018 16:08

Tgt Ion:165 Resp: 13493  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 2.5 49.2 73.8#





#56

2,4-Dinitrotoluene

Concen: 5.274 ng

RT: 15.36 min Scan# 2055

Delta R.T. -0.34 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:165 Resp: 13493

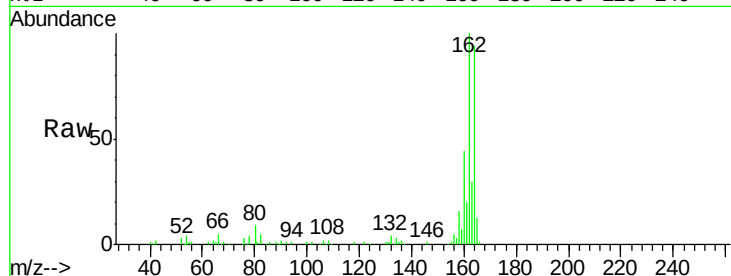
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 2.5 66.9 100.3#

182 0.0 2.6 3.8#

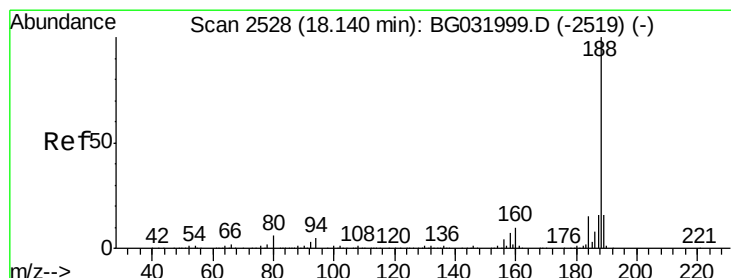
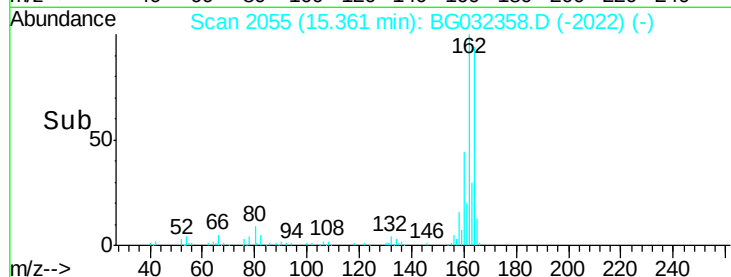
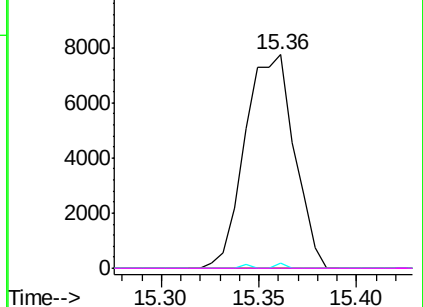


Abundance Ion 165.00 (164.70 to 165.70): E

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. -0.00 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

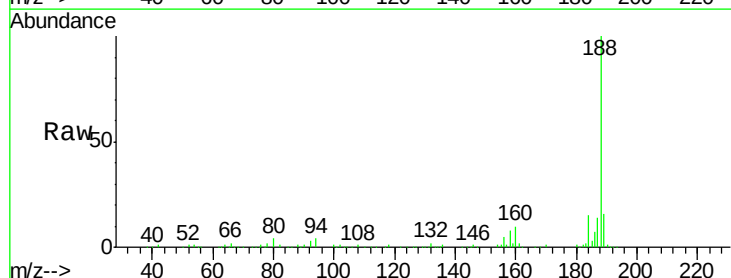
Tgt Ion:188 Resp: 281538

Ion Ratio Lower Upper

188 100

94 4.3 6.9 10.3#

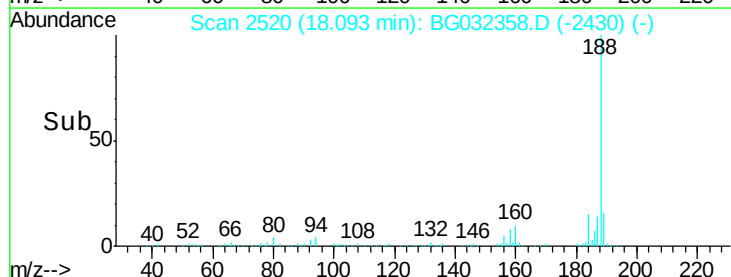
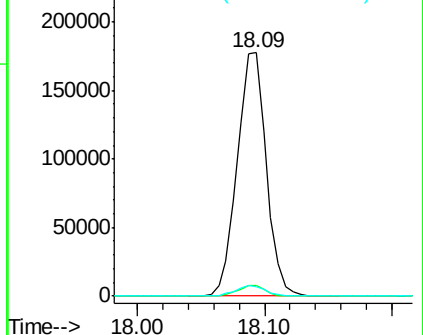
80 3.8 7.7 11.5#



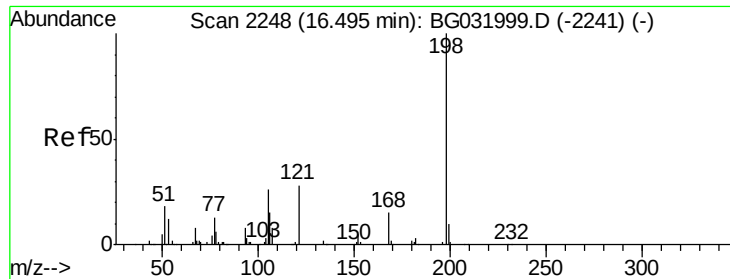
Abundance Ion 188.00 (187.70 to 188.70): E

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: 5.290 ng

RT: 16.84 min Scan# 2306

Delta R.T. 0.38 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Instrument :

BNA\_G

ClientSampleId :

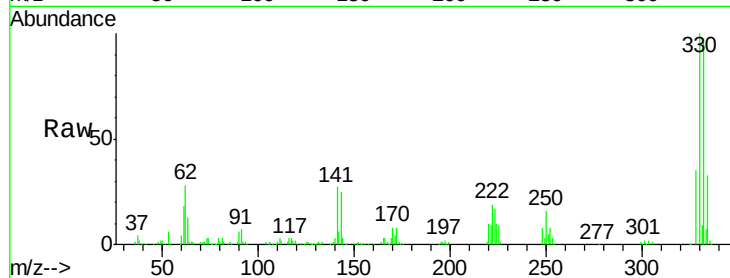
Tot Ion:198 Resp: 814

Ion Ratio Lower Upper

198 100

51 63.7 30.6 70.6

105 78.9 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

16.84

16.85

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16.80

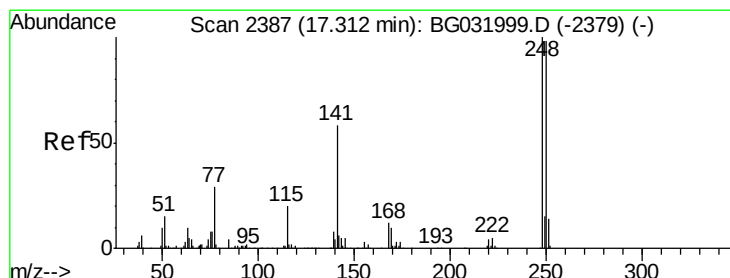
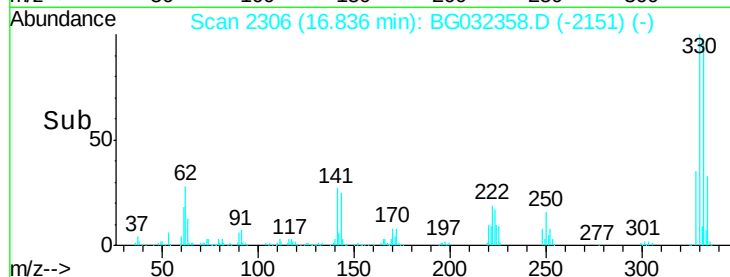
16.85

16.80

16.85

16.80

16.85



#66

4-Bromophenyl-phenylether

Concen: 5.223 ng

RT: 16.83 min Scan# 2305

Delta R.T. -0.44 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

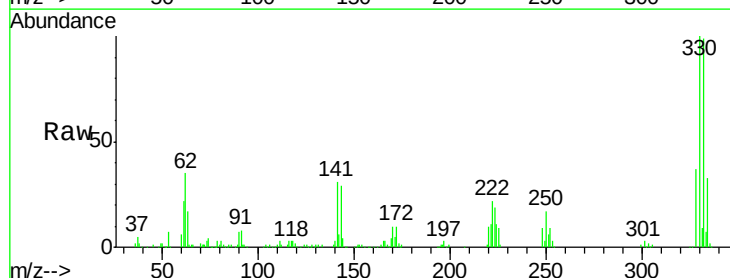
Tgt Ion:248 Resp: 20921

Ion Ratio Lower Upper

248 100

250 182.1 77.1 115.7#

141 331.4 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

16.83

16.85

16.80

16.85

16.80

16.85

16.80

16.85

16.80

16.85

16.80

16.85

16.80

16.85

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16.85

16.80

16.85

16.80

16.85

16.80

16.85

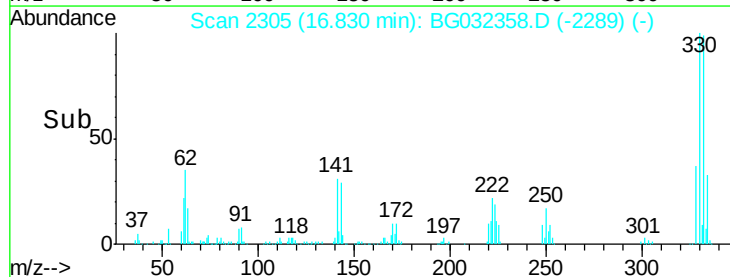
16.80

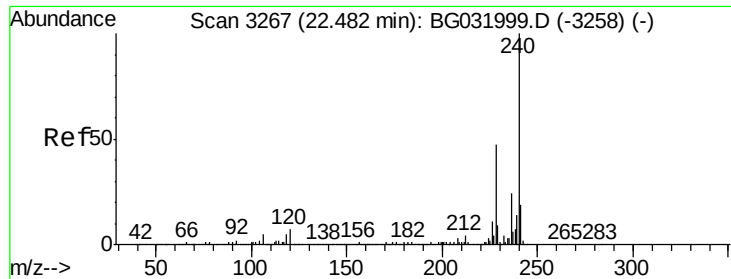
16.85

16.80

16.85

16.80

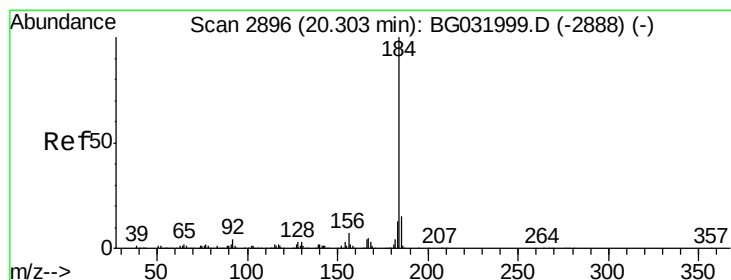
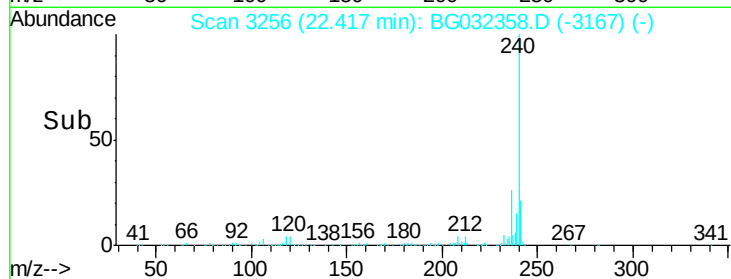
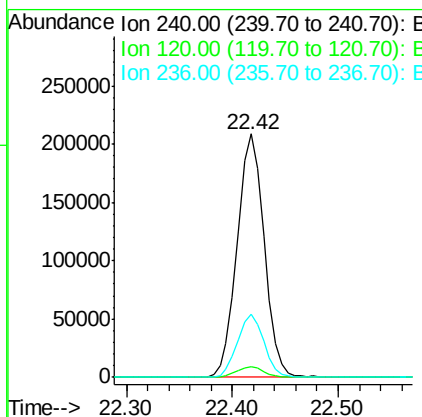
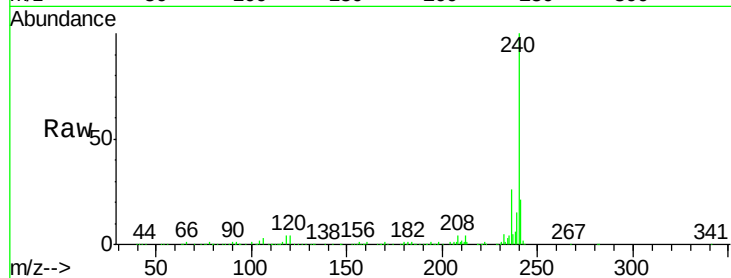




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.42 min Scan# 3256  
 Delta R.T. -0.01 min  
 Lab File: BG032358.D  
 Acq: 27 Jan 2018 16:08

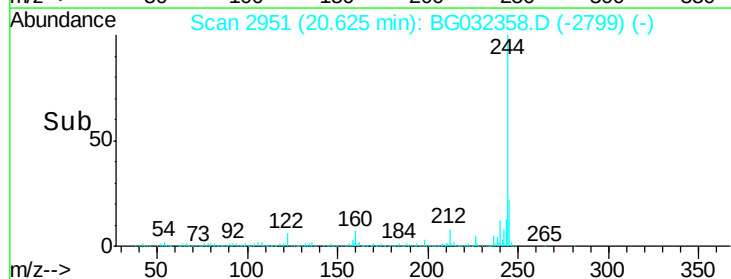
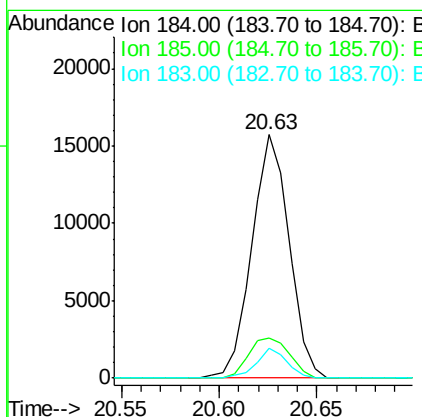
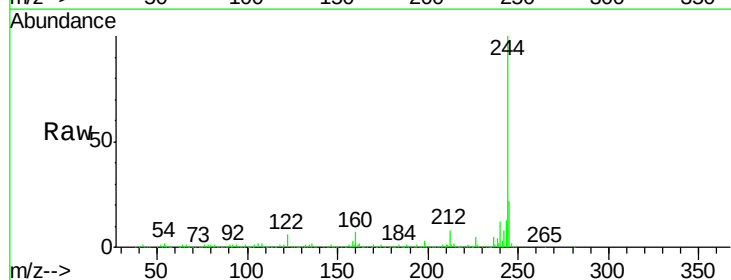
Instrument :  
 BNA\_G  
 ClientSampleId :

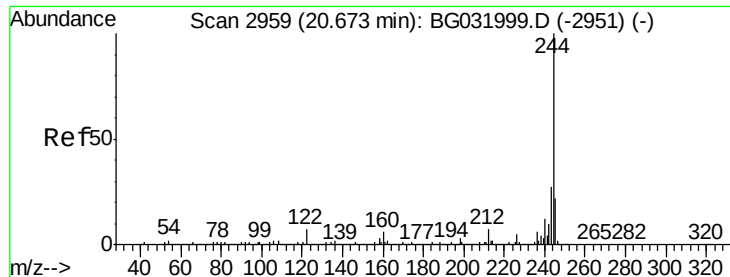
Tot Ion:240 Resp: 369954  
 Ion Ratio Lower Upper  
 240 100  
 120 4.4 6.8 10.2#  
 236 25.8 20.9 31.3



#76  
 Benzidine  
 Concen: 2.244 ng  
 RT: 20.63 min Scan# 2951  
 Delta R.T. 0.36 min  
 Lab File: BG032358.D  
 Acq: 27 Jan 2018 16:08

Tgt Ion:184 Resp: 20758  
 Ion Ratio Lower Upper  
 184 100  
 185 16.6 11.1 16.7  
 183 12.2 10.6 16.0





#78

Terphenyl-d14

Concen: 87.449 ng

RT: 20.63 min Scan# 2951

Delta R.T. -0.01 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

Instrument :

BNA\_G

ClientSampleId :

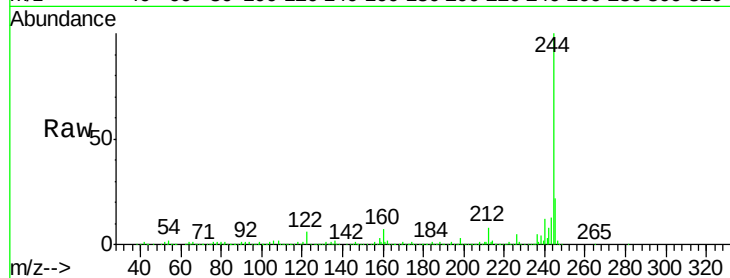
Tot Ion:244 Resp: 1465199

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.8

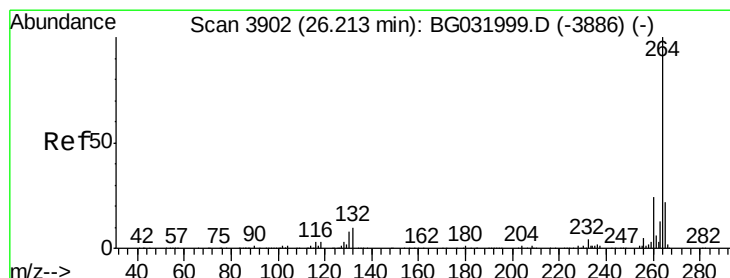
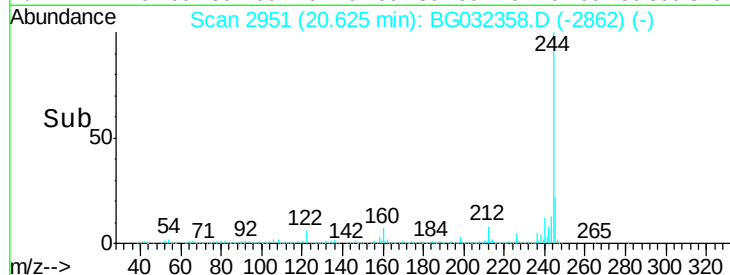
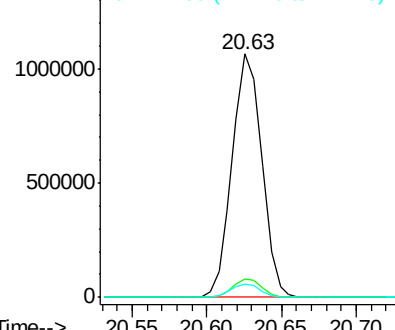
122 5.7 7.0 10.4#



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: 26.10 min Scan# 3882

Delta R.T. -0.01 min

Lab File: BG032358.D

Acq: 27 Jan 2018 16:08

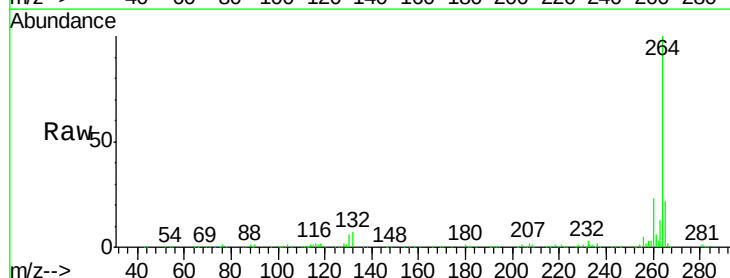
Tgt Ion:264 Resp: 396609

Ion Ratio Lower Upper

264 100

260 22.9 17.4 26.0

265 22.4 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

