

Data Path : Z:\HPCHEM1\BNA G\DATA\BG012518\  
 Data File : BG032320.D  
 Acq On : 26 Jan 2018 8:31  
 Operator : SJ/JU  
 Sample : J1306-04  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 26 11:54:46 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  | 31810    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.60 | 136  | 122311   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.36 | 164  | 93305    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.09 | 188  | 282252   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.41 | 240  | 355448   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 26.09 | 264  | 377288   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.16  | 112  | 209927   | 120.70 | ng    | 0.00     |
| 7) Phenol-d6                | 7.83  | 99   | 238991   | 109.10 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 184890   | 102.27 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.83 | 330  | 258291   | 167.29 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.98 | 172  | 681116   | 90.52  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1523033  | 94.61  | ng    | 0.00     |

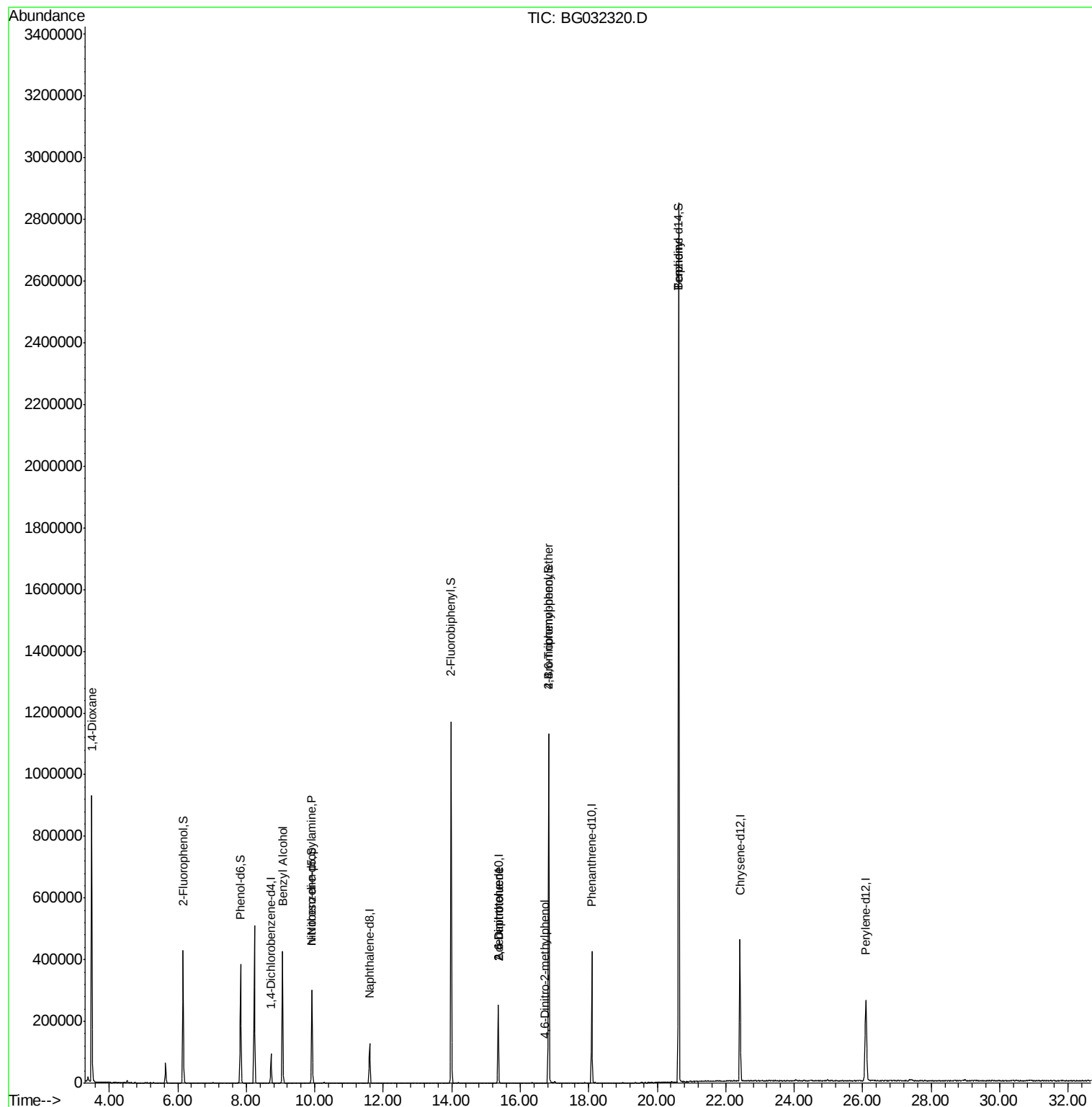
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.49  | 88   | 9196     | 13.763 | ng    | # 1    |
| 15) Benzyl Alcohol             | 9.06  | 79   | 3537     | 2.223  | ng    | # 47   |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 26879    | 19.777 | ng    | # 79   |
| 50) 2,6-Dinitrotoluene         | 15.36 | 165  | 12746    | 7.521  | ng    | # 18   |
| 56) 2,4-Dinitrotoluene         | 15.36 | 165  | 12746    | 5.586  | ng    | # 16   |
| 64) 4,6-Dinitro-2-methylphenol | 16.70 | 198  | 68       | 4.918  | ng    | # 22   |
| 66) 4-Bromophenyl-phenylether  | 16.83 | 248  | 21997    | 5.477  | ng    | # 1    |
| 76) Benzidine                  | 20.63 | 184  | 22100    | 2.486  | ng    | # 87   |

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

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QLast Update : Wed Jan 24 14:02:41 2018  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.72 min Scan# 925

Delta R.T. -0.00 min

Lab File: BG032320.D

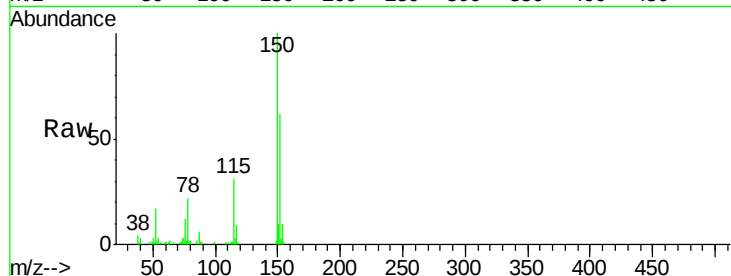
Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampleId :

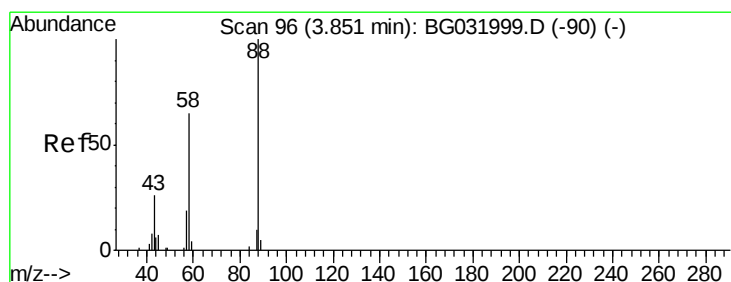
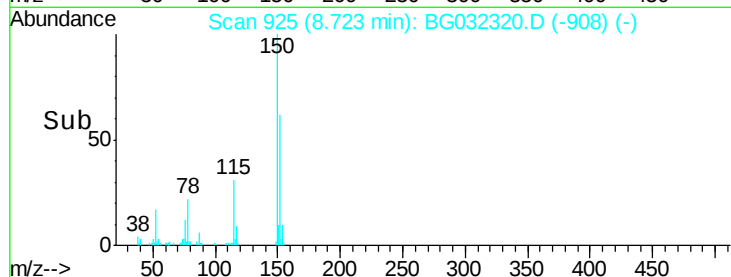
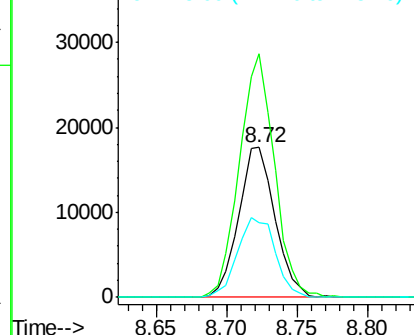
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.4 | 126.6 | 189.8 |
| 115     | 50.2  | 53.0  | 79.4  |



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



#2

1,4-Dioxane

Concen: 13.763 ng

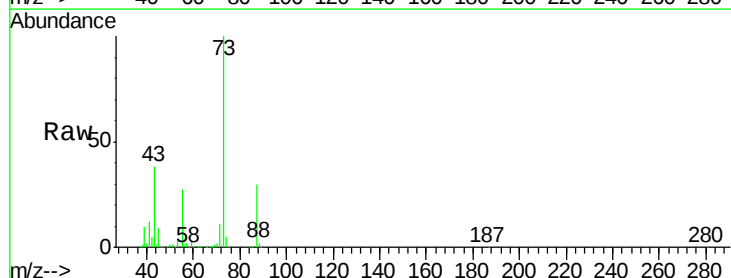
RT: 3.49 min Scan# 34

Delta R.T. -0.34 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

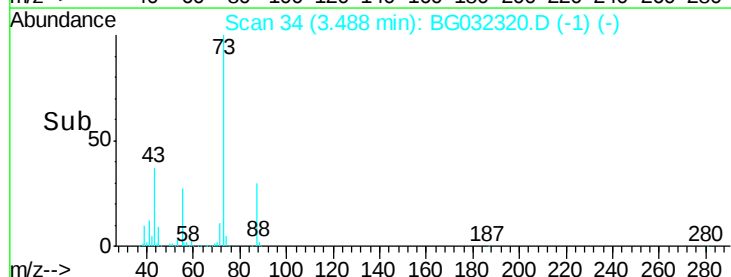
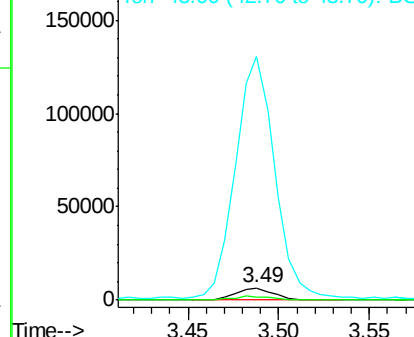
| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 36.3   | 79.6  | 119.4 |
| 43      | 2145.1 | 27.4  | 41.0  |

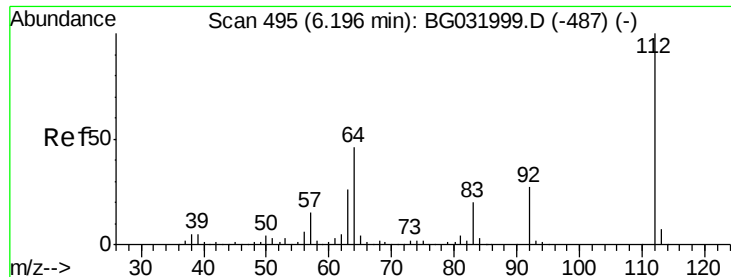


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 120.699 ng

RT: 6.16 min Scan# 488

Delta R.T. -0.00 min

Lab File: BG032320.D

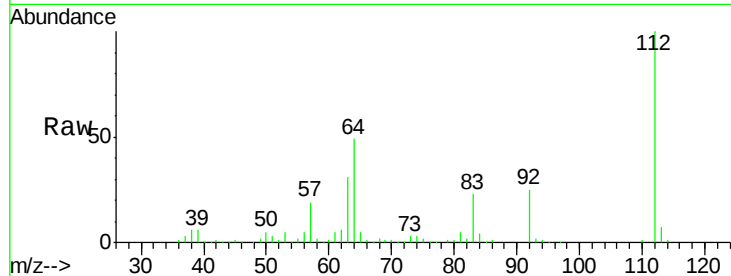
Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampleId :

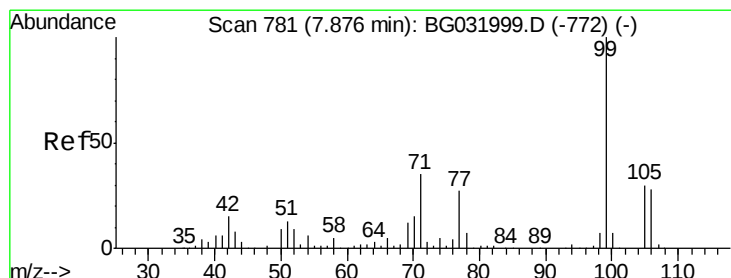
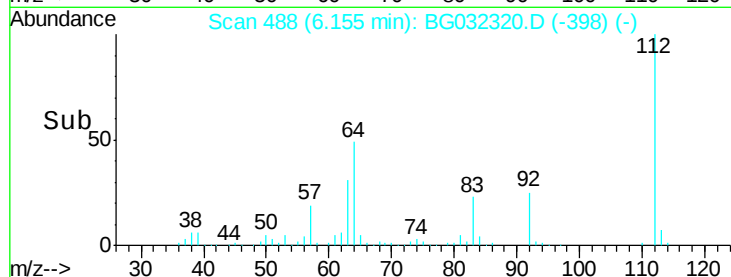
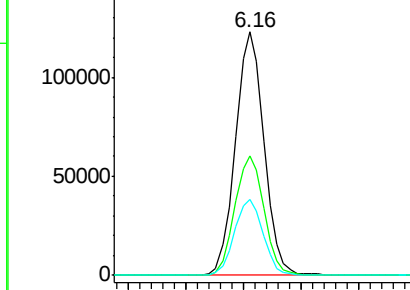
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 209927 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 49.0  | 56.3  | 84.5#  |
| 63        | 31.3  | 30.1  | 45.1   |



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 109.104 ng

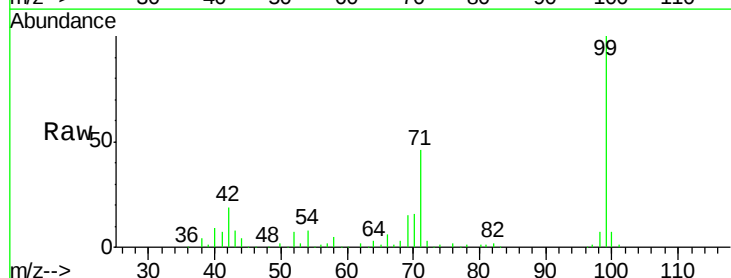
RT: 7.83 min Scan# 773

Delta R.T. -0.01 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

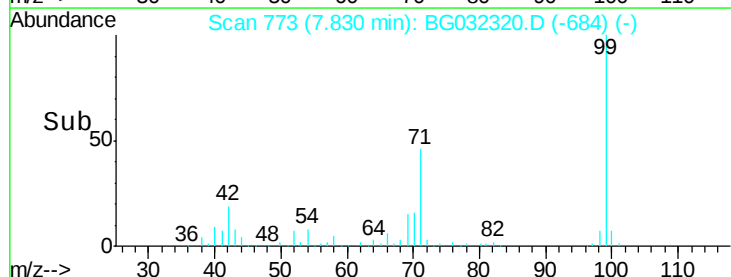
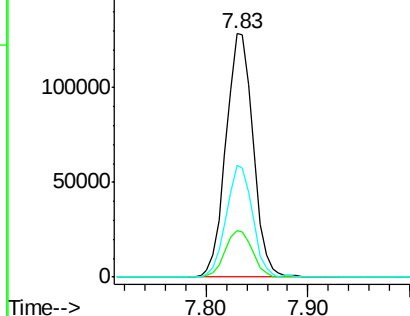
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 238991 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.2  | 14.1  | 21.1   |
| 71        | 45.8  | 26.1  | 39.1#  |

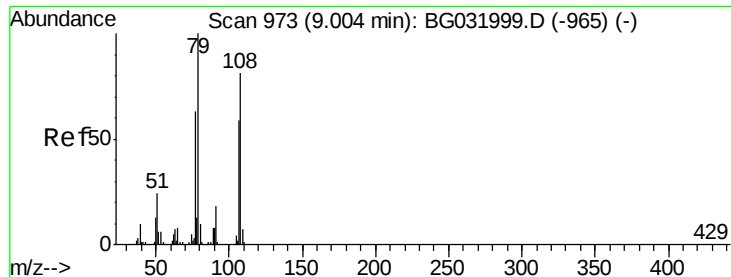


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.223 ng

RT: 9.06 min Scan# 982

Delta R.T. 0.09 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampleId :

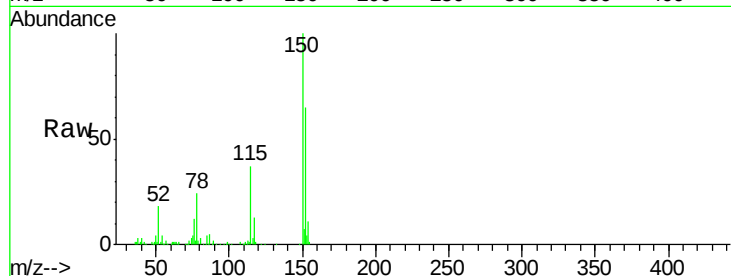
Tot Ion: 79 Resp: 3537

Ion Ratio Lower Upper

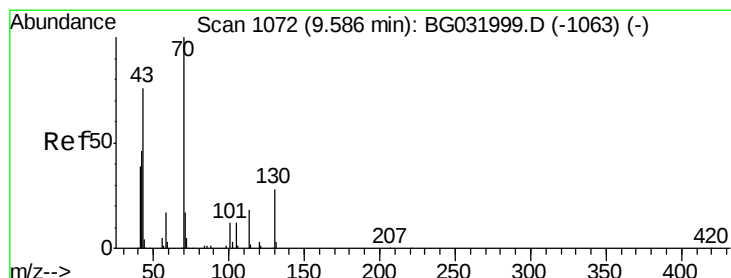
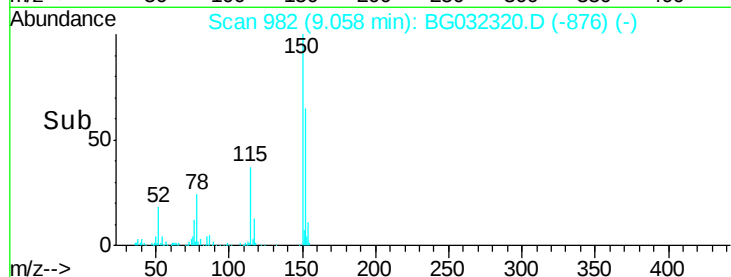
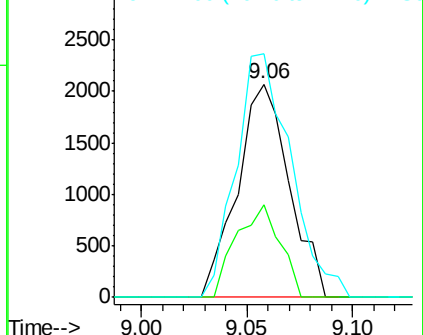
79 100

108 43.7 57.2 85.8#

77 114.2 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: 19.777 ng

RT: 9.92 min Scan# 1128

Delta R.T. 0.38 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

Tgt Ion: 70 Resp: 26879

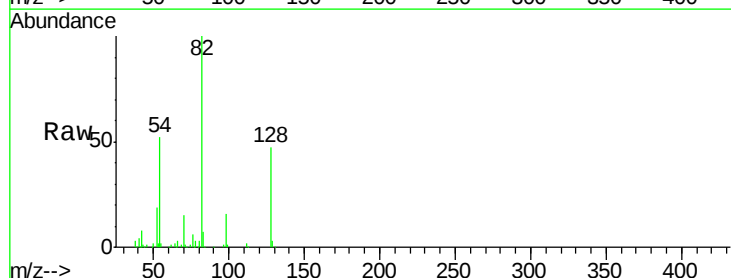
Ion Ratio Lower Upper

70 100

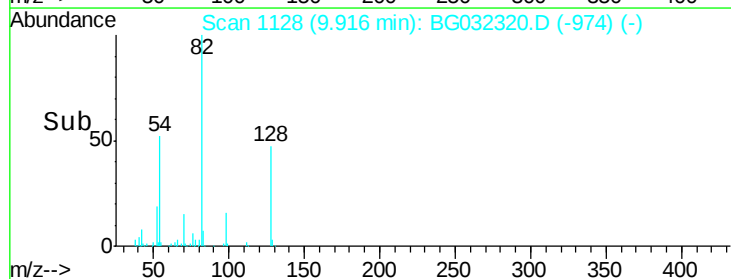
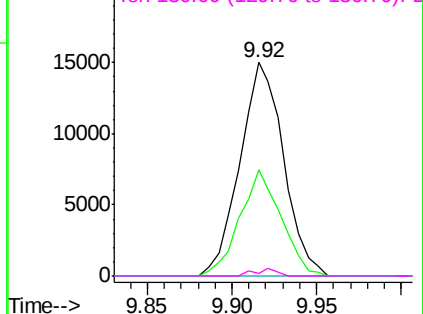
42 49.8 49.1 73.7

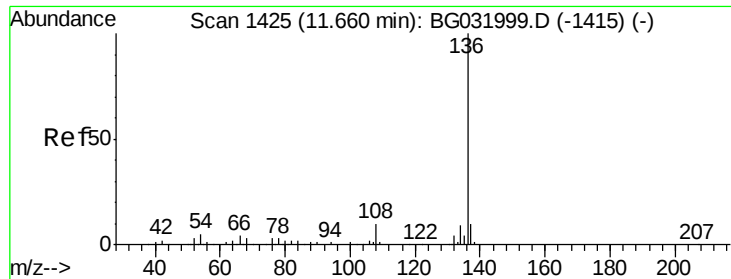
101 0.0 8.5 12.7#

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

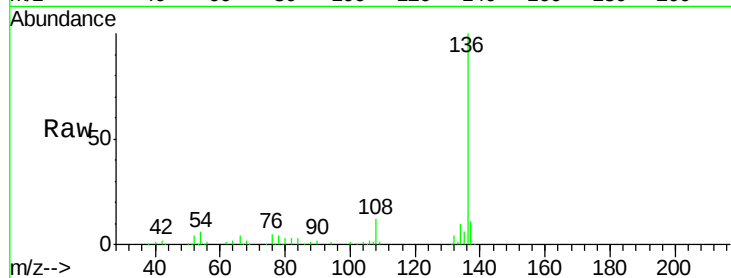




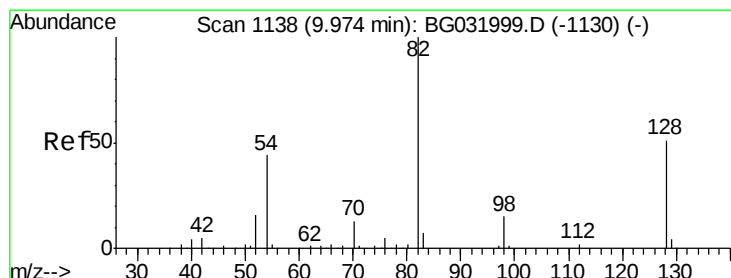
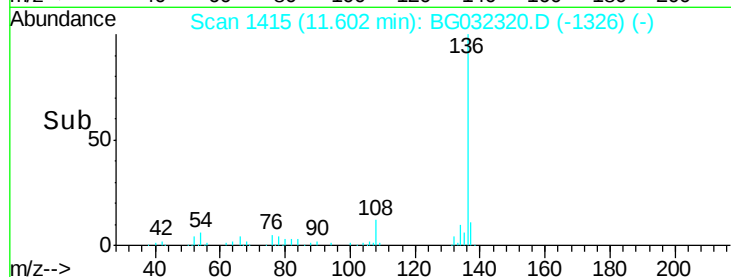
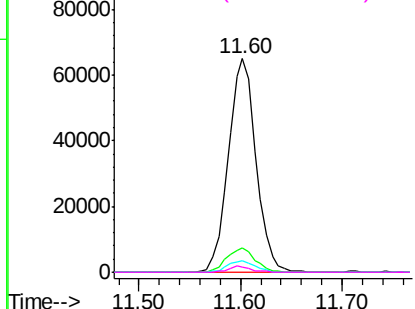
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BG032320.D  
Acq: 26 Jan 2018 8:31

Instrument :  
BNA\_G  
ClientSampled :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 122311     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.3  | 9.2 13.8   |
| 54          | 5.5   | 10.3 15.5# |
| 68          | 2.5   | 4.5 6.7#   |

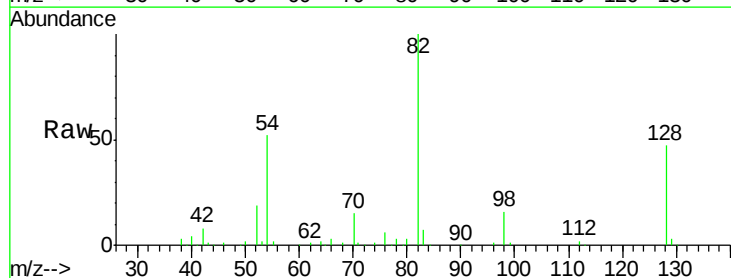


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

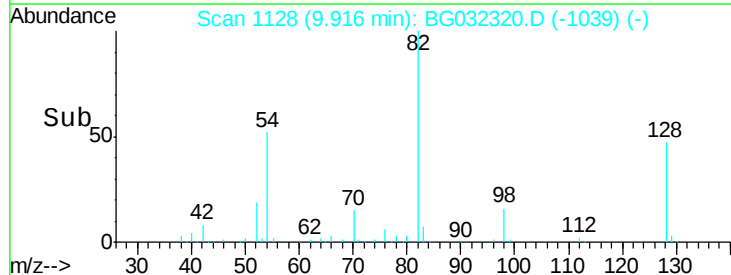
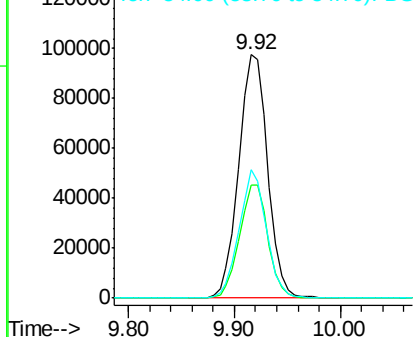


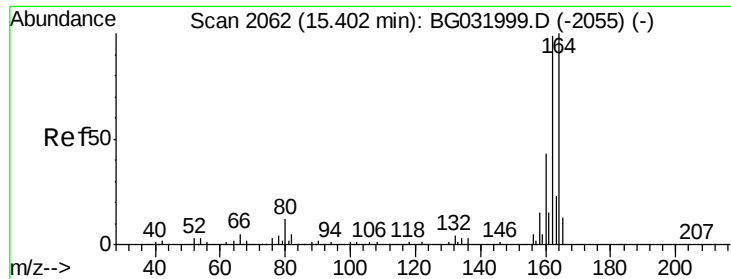
#23  
Nitrobenzene-d5  
Concen: 102.269 ng  
RT: 9.92 min Scan# 1128  
Delta R.T. -0.01 min  
Lab File: BG032320.D  
Acq: 26 Jan 2018 8:31

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 184890     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 46.5  | 29.7 44.5# |
| 54          | 52.5  | 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

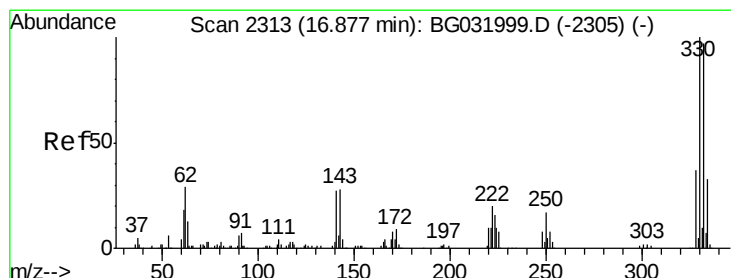
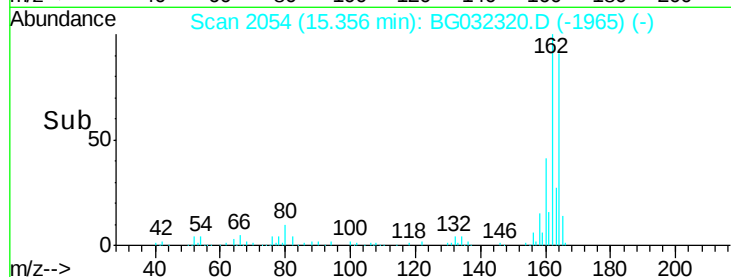
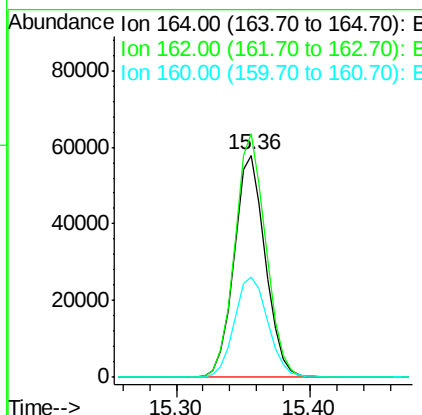
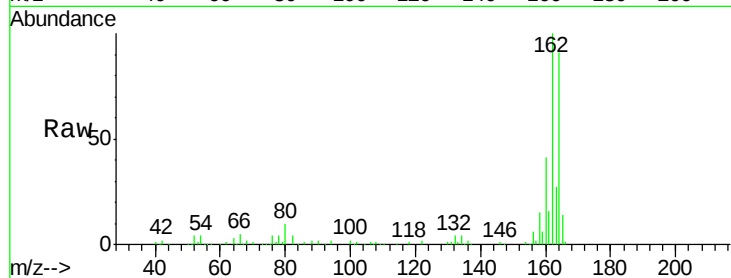




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.36 min Scan# 2054  
 Delta R.T. -0.01 min  
 Lab File: BG032320.D  
 Acq: 26 Jan 2018 8:31

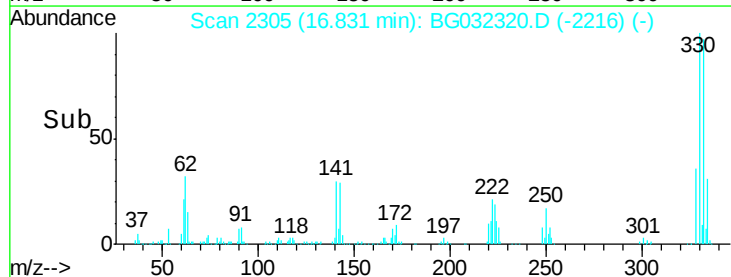
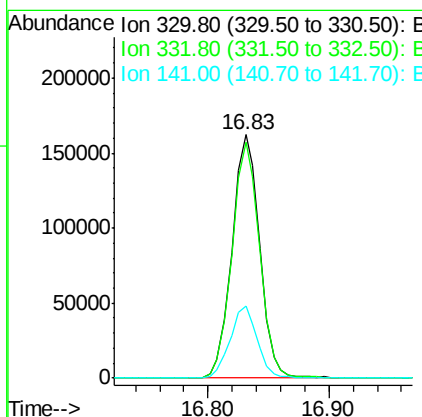
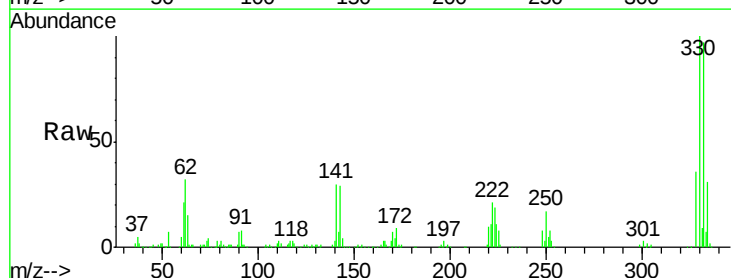
Instrument :  
 BNA\_G  
 ClientSampleId :

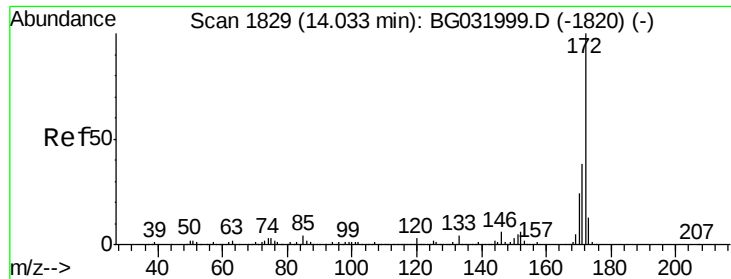
Tot Ion:164 Resp: 93305  
 Ion Ratio Lower Upper  
 164 100  
 162 109.7 78.8 118.2  
 160 45.1 35.4 53.0



#41  
 2,4,6-Tribromophenol  
 Concen: 167.289 ng  
 RT: 16.83 min Scan# 2305  
 Delta R.T. -0.01 min  
 Lab File: BG032320.D  
 Acq: 26 Jan 2018 8:31

Tgt Ion:330 Resp: 258291  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 77.0 115.6  
 141 29.1 25.2 37.8

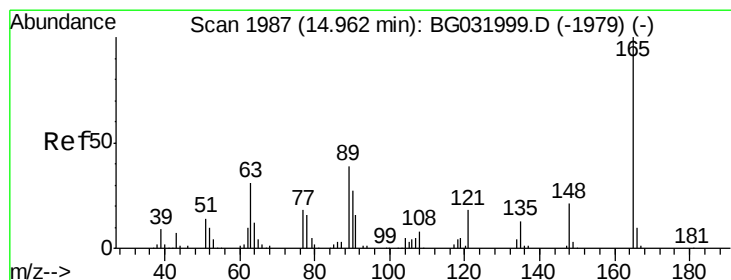
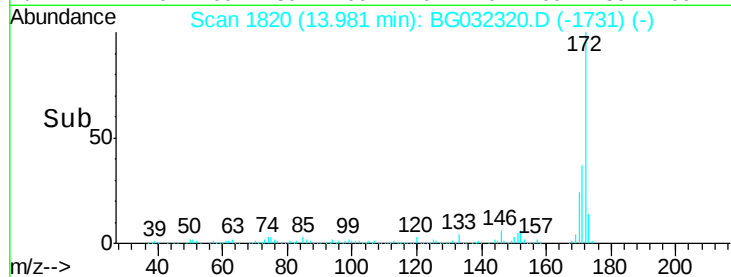
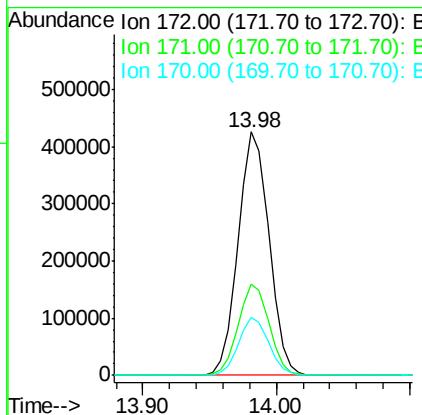
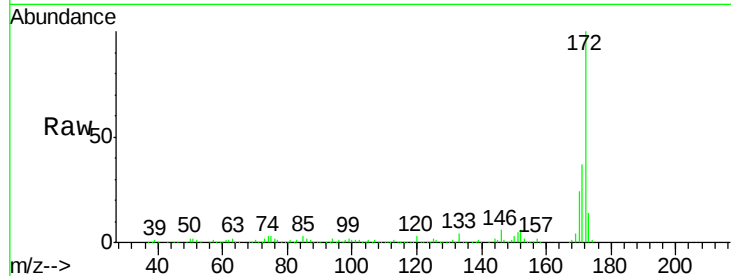




#44  
 2-Fluorobiphenyl  
 Concen: 90.515 ng  
 RT: 13.98 min Scan# 1820  
 Delta R.T. -0.01 min  
 Lab File: BG032320.D  
 Acq: 26 Jan 2018 8:31

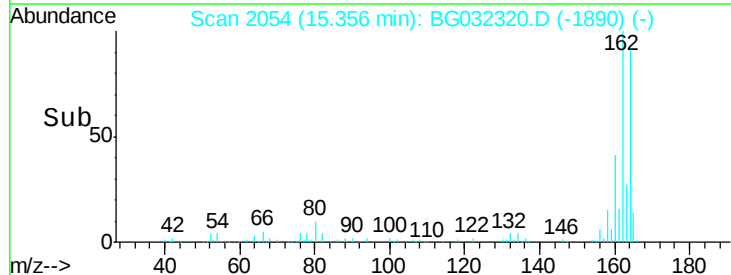
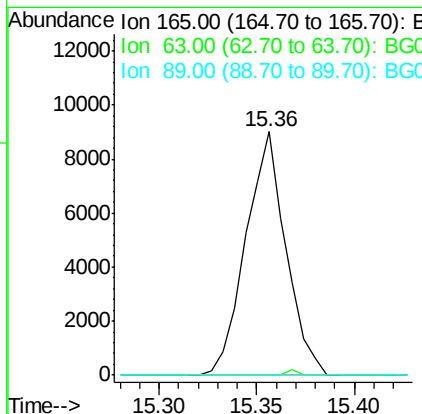
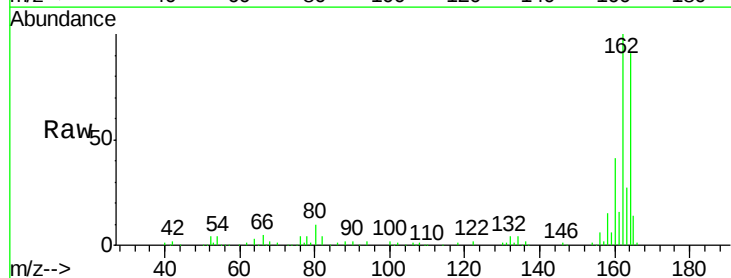
Instrument :  
 BNA\_G  
 ClientSampleId :

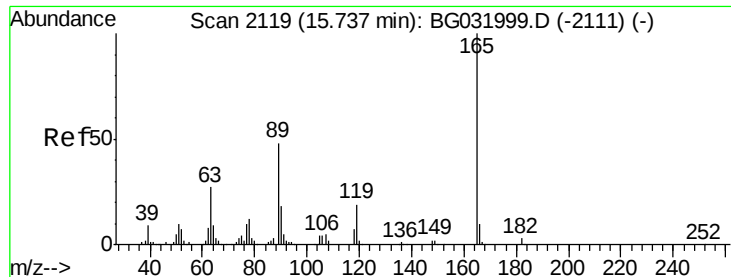
Tot Ion:172 Resp: 681116  
 Ion Ratio Lower Upper  
 172 100  
 171 37.4 30.0 45.0  
 170 23.6 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.521 ng  
 RT: 15.36 min Scan# 2054  
 Delta R.T. 0.43 min  
 Lab File: BG032320.D  
 Acq: 26 Jan 2018 8:31

Tgt Ion:165 Resp: 12746  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#

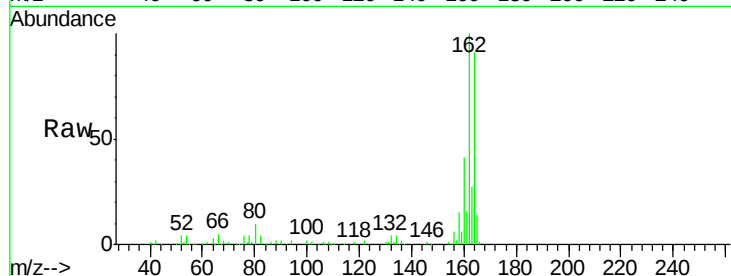




#56  
2,4-Dinitrotoluene  
Concen: 5.586 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. -0.34 min  
Lab File: BG032320.D  
Acq: 26 Jan 2018 8:31

Instrument :  
BNA\_G  
ClientSampleId :

| Tot 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#   |

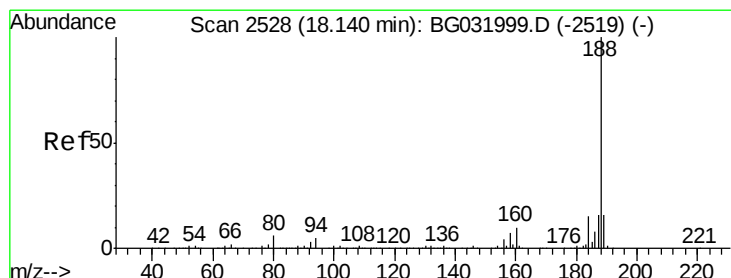
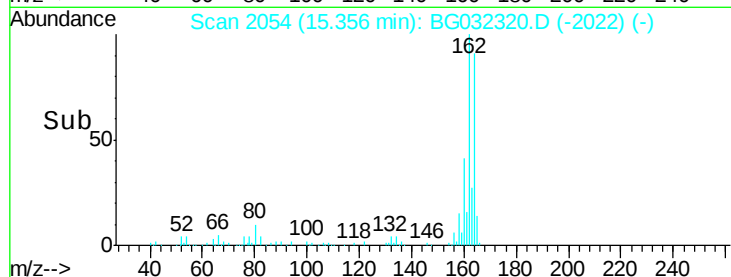
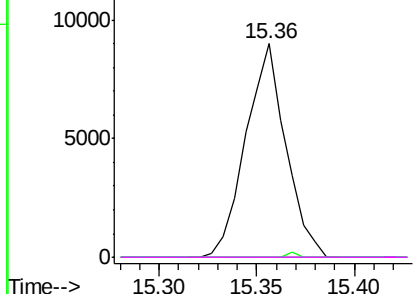


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

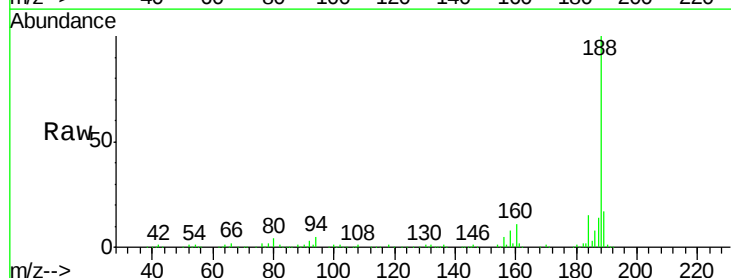
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.09 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BG032320.D  
Acq: 26 Jan 2018 8:31

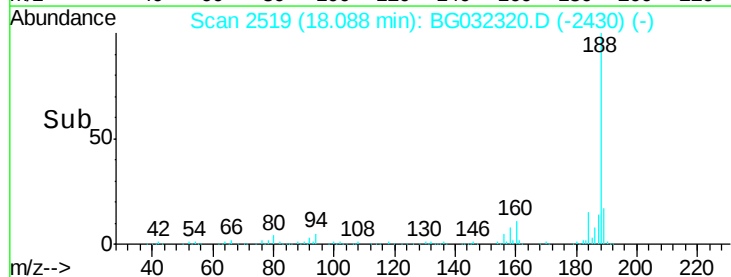
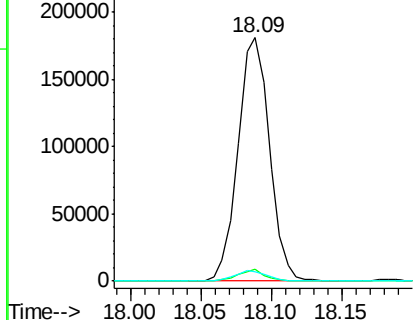
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.8   | 6.9   | 10.3# |
| 80      | 3.9   | 7.7   | 11.5# |

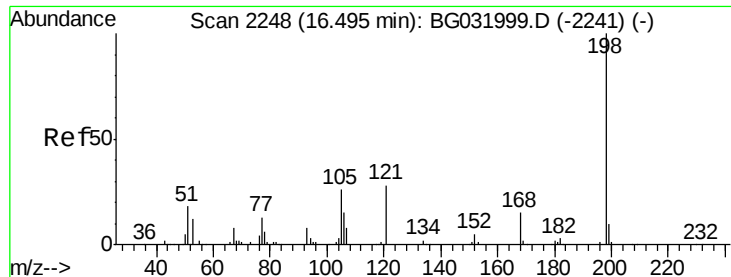


Abundance Ion 188.00 (187.70 to 188.70): E

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: 4.918 ng

RT: 16.70 min Scan# 2282

Delta R.T. 0.24 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampleId :

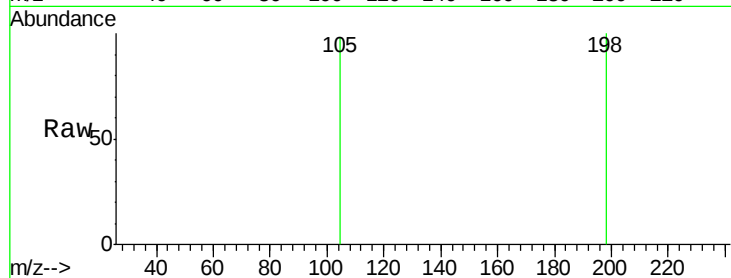
Tot Ion:198 Resp: 68

Ion Ratio Lower Upper

198 100

51 0.0 30.6 70.6#

105 98.4 23.8 63.8#



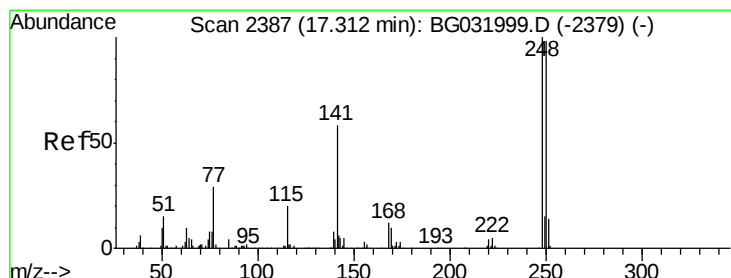
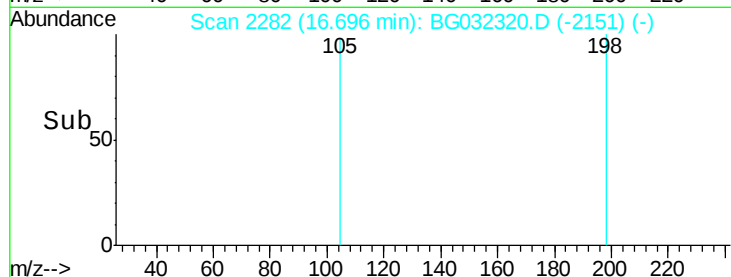
Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

16.70

Time-->



#66

4-Bromophenyl-phenylether

Concen: 5.477 ng

RT: 16.83 min Scan# 2305

Delta R.T. -0.44 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

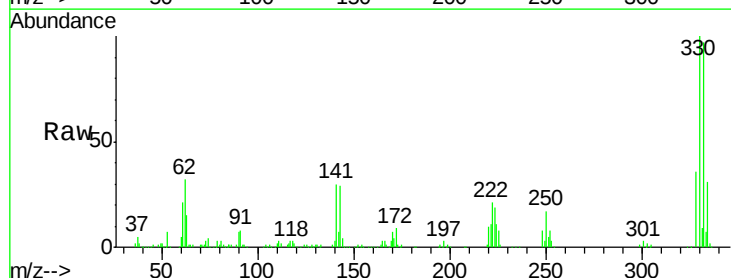
Tgt Ion:248 Resp: 21997

Ion Ratio Lower Upper

248 100

250 216.7 77.1 115.7#

141 374.1 50.8 76.2#



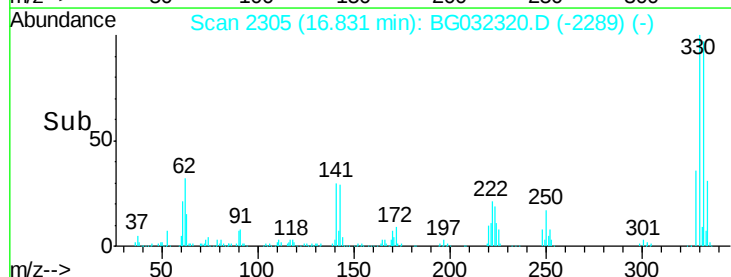
Abundance Ion 248.00 (247.70 to 248.70): E

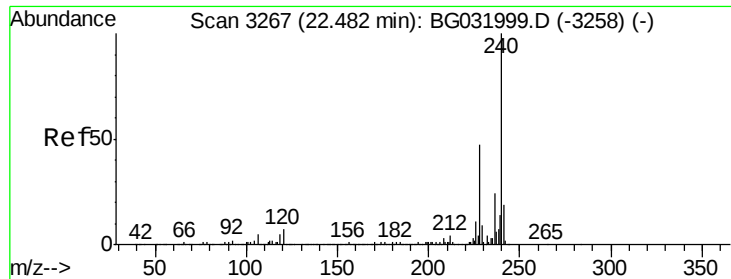
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

16.83

Time-->





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.41 min Scan# 3255

Delta R.T. -0.01 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampleId :

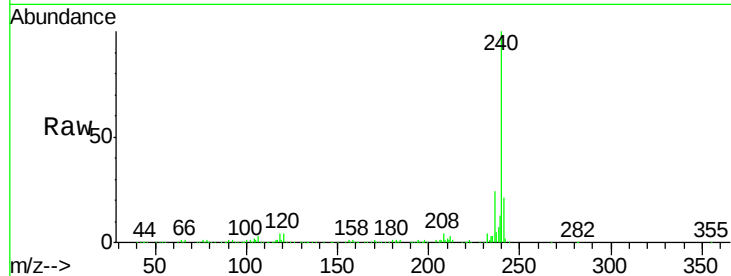
Tot Ion:240 Resp: 355448

Ion Ratio Lower Upper

240 100

120 4.5 6.8 10.2#

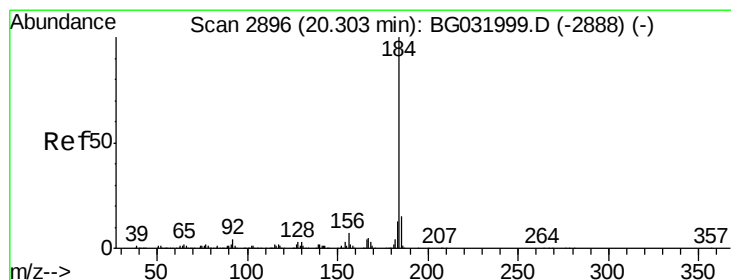
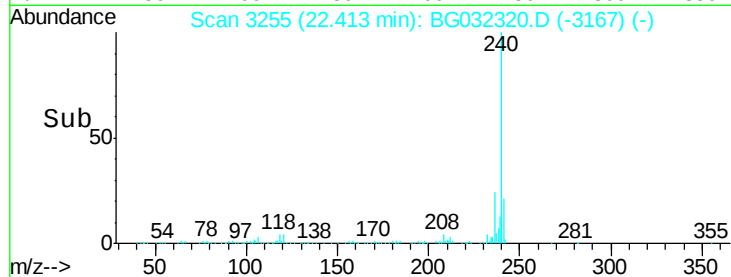
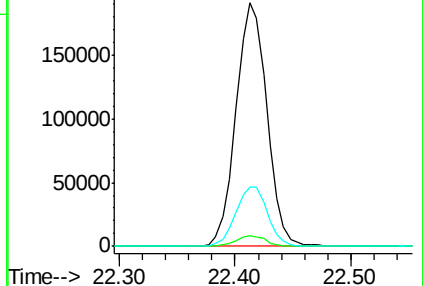
236 24.4 20.9 31.3



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: 2.486 ng

RT: 20.63 min Scan# 2951

Delta R.T. 0.36 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

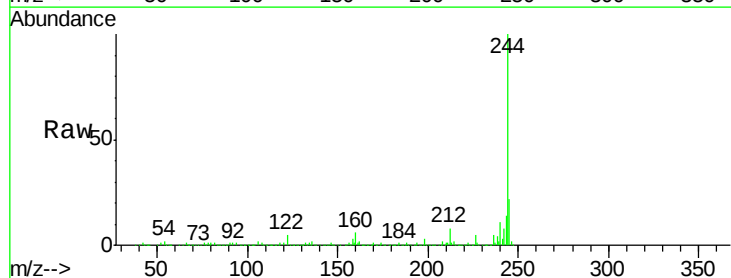
Tgt Ion:184 Resp: 22100

Ion Ratio Lower Upper

184 100

185 18.9 11.1 16.7#

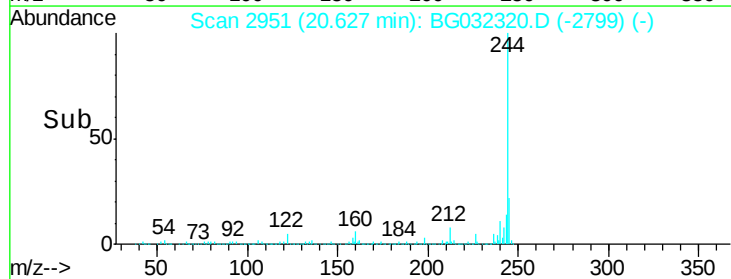
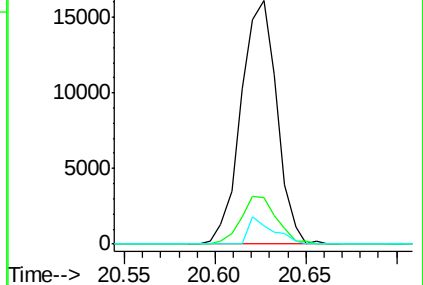
183 7.4 10.6 16.0#

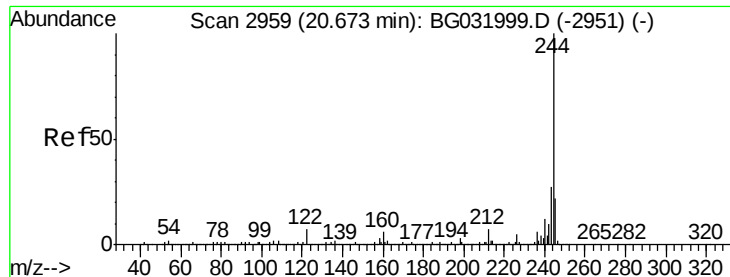


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 94.611 ng

RT: 20.63 min Scan# 2951

Delta R.T. -0.01 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

Instrument :

BNA\_G

ClientSampled :

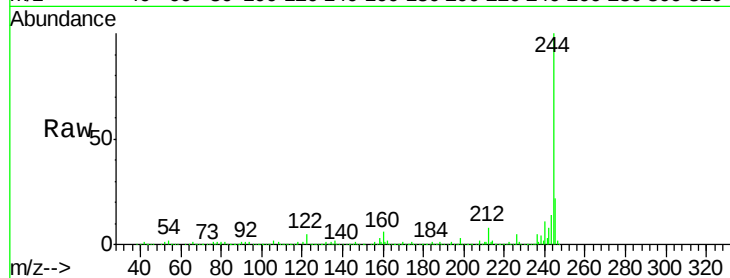
Tot Ion:244 Resp: 1523033

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

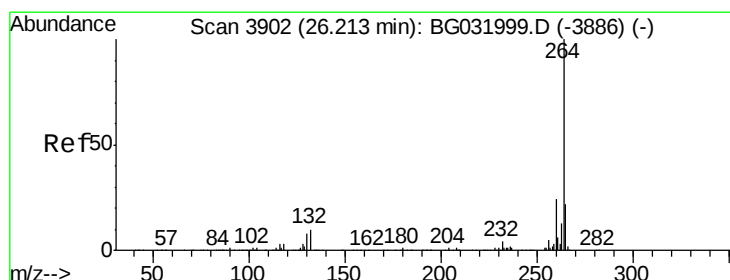
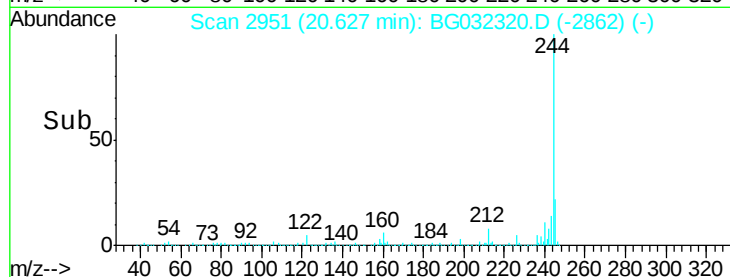
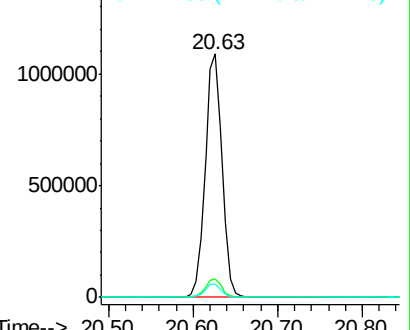
122 5.5 7.0 10.4#



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: 26.09 min Scan# 3881

Delta R.T. -0.02 min

Lab File: BG032320.D

Acq: 26 Jan 2018 8:31

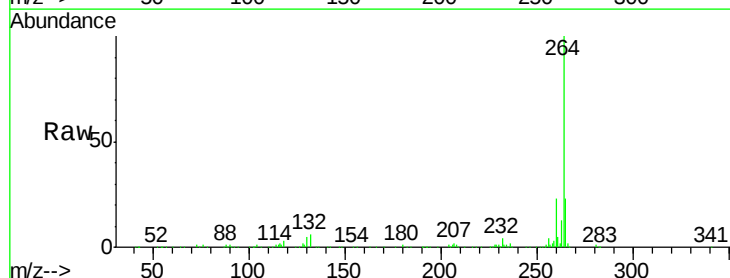
Tgt Ion:264 Resp: 377288

Ion Ratio Lower Upper

264 100

260 22.8 17.4 26.0

265 22.7 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

