

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021618\  
 Data File : BG032743.D  
 Acq On : 16 Feb 2018 18:21  
 Operator : SJ/JU  
 Sample : J1401-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 22:04:17 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 16 18:34:49 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.62  | 152  | 18974    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.50 | 136  | 85102    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.27 | 164  | 64792    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.01 | 188  | 176896   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.32 | 240  | 254688   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.94 | 264  | 277894   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.07  | 112  | 128968   | 136.37 | ng    | 0.00     |
| 7) Phenol-d6                | 7.75  | 99   | 134388   | 103.92 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.82  | 82   | 103386   | 77.21  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.75 | 330  | 192868   | 193.32 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.89 | 172  | 479365   | 92.52  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.56 | 244  | 961132   | 86.01  | ng    | 0.00     |

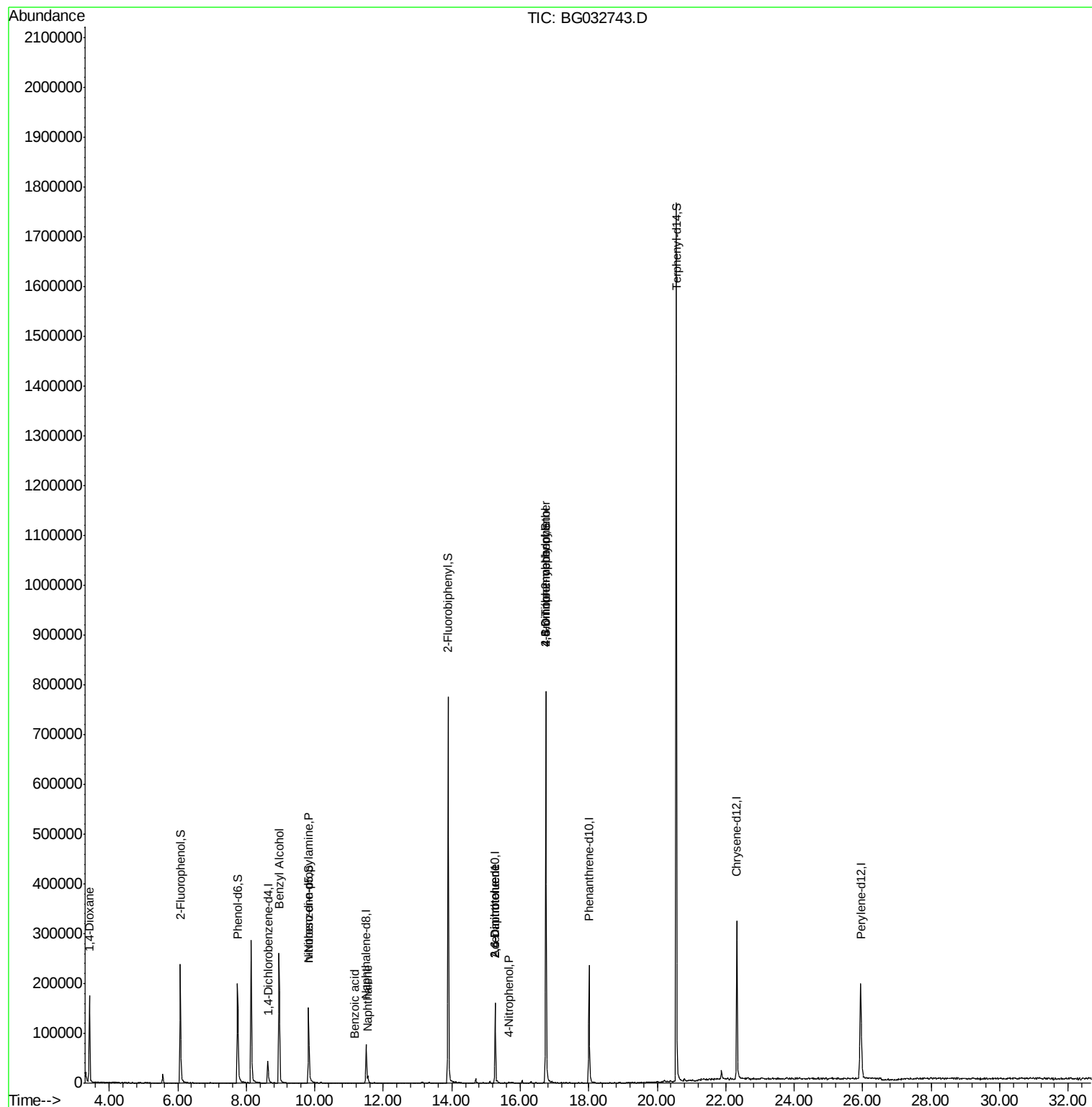
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.43  | 88   | 1434     | 3.62  | ng    | # 1    |
| 15) Benzyl Alcohol             | 8.96  | 79   | 1969     | 2.03  | ng    | # 20   |
| 19) n-Nitroso-di-n-propylamine | 9.82  | 70   | 15980    | 18.38 | ng    | # 72   |
| 31) Naphthalene                | 11.55 | 128  | 10359    | 2.51  | ng    | # 97   |
| 32) Benzoic acid               | 11.15 | 122  | 54       | 4.45  | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 15.27 | 165  | 8565     | 7.43  | ng    | # 18   |
| 55) 4-Nitrophenol              | 15.66 | 139  | 788      | 6.46  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.27 | 165  | 8565     | 5.39  | ng    | # 16   |
| 64) 4,6-Dinitro-2-methylphenol | 16.75 | 198  | 652      | 5.48  | ng    | # 74   |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 14940    | 5.90  | ng    | # 1    |

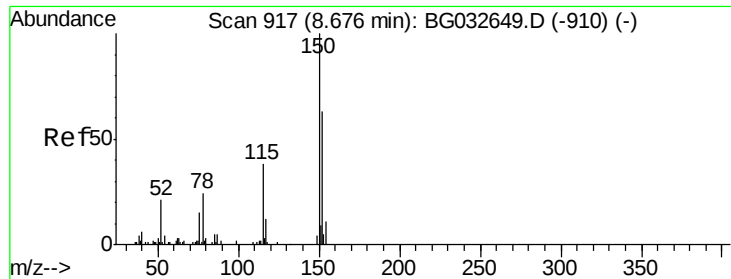
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Time: Feb 16 22:04:17 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 16 18:34:49 2018  
Response via : Initial Calibration



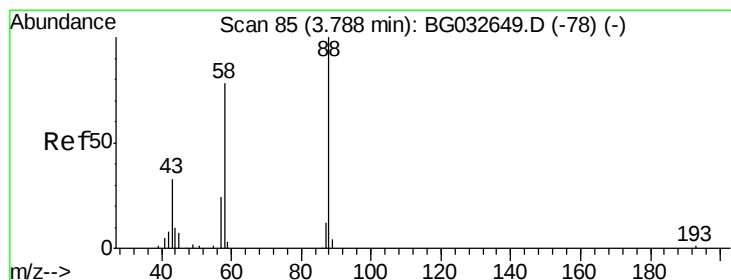
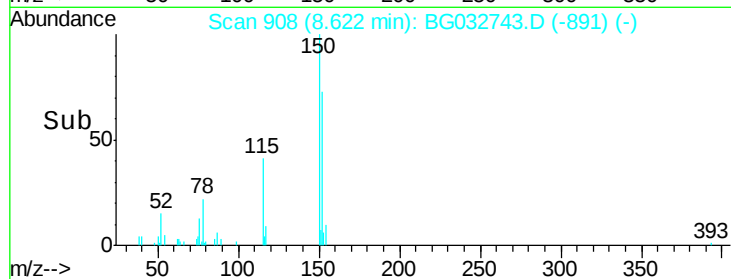
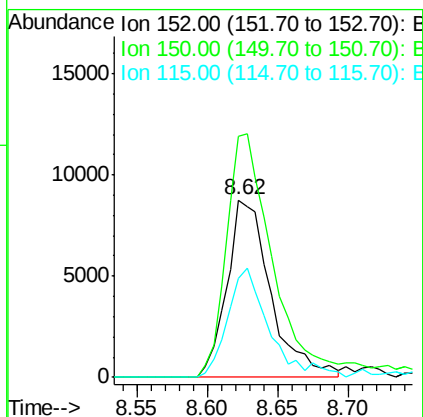
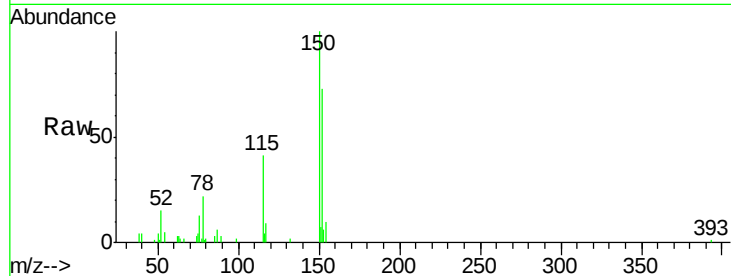


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.62 min Scan# 908  
Delta R.T. -0.00 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Instrument :  
BNA\_G  
ClientSampleId :

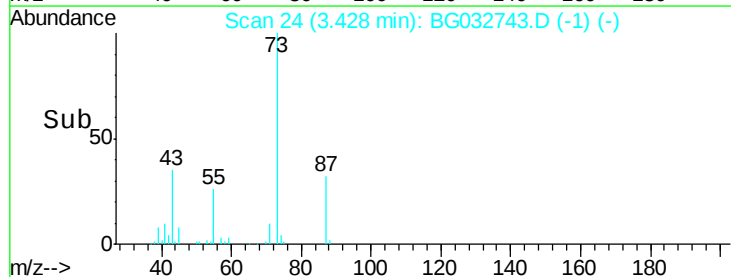
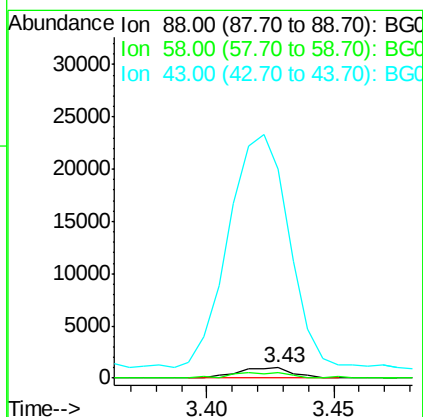
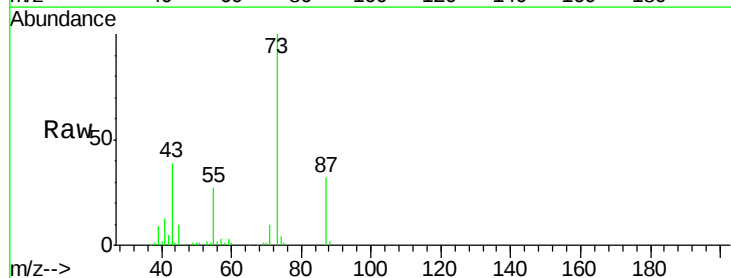
Tot Ion:152 Resp: 18974  
Ion Ratio Lower Upper  
152 100  
150 136.2 126.6 189.8  
115 55.7 53.0 79.4

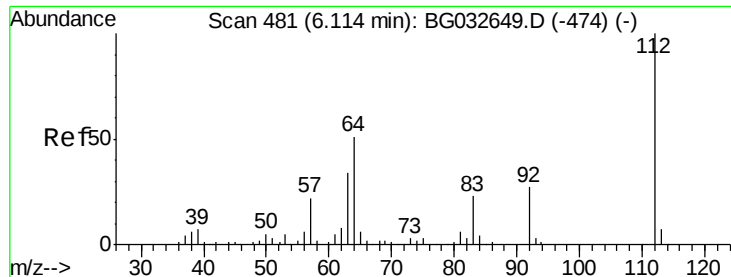


#2

1,4-Dioxane  
Concen: 3.62 ng  
RT: 3.43 min Scan# 24  
Delta R.T. -0.32 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Tgt Ion: 88 Resp: 1434  
Ion Ratio Lower Upper  
88 100  
58 56.3 79.6 119.4#  
43 2765.8 27.4 41.0#





#5

2-Fluorophenol

Concen: 136.37 ng

RT: 6.07 min Scan# 474

Delta R.T. -0.00 min

Lab File: BG032743.D

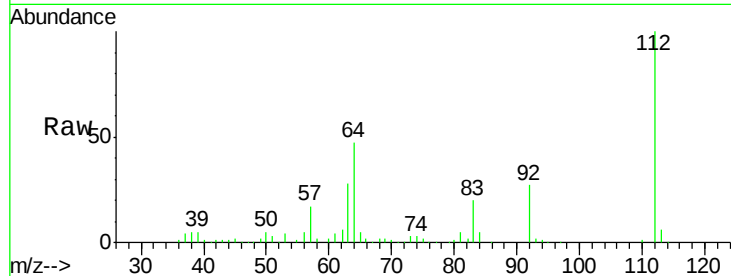
Acq: 16 Feb 2018 18:21

Instrument :

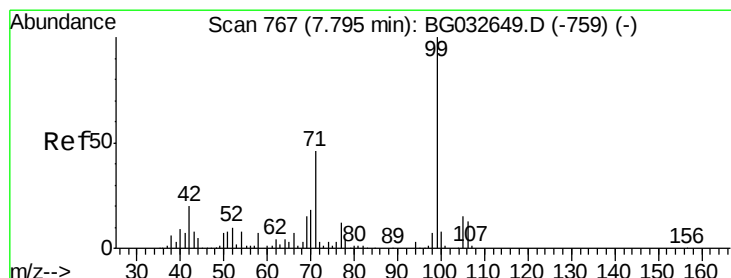
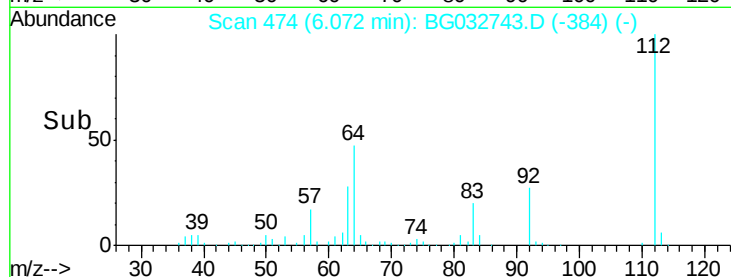
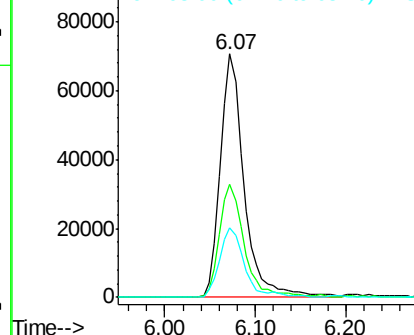
BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 112   | Resp: | 128968 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 46.5  | 56.3  | 84.5#  |
| 63       | 28.4  | 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: 103.92 ng

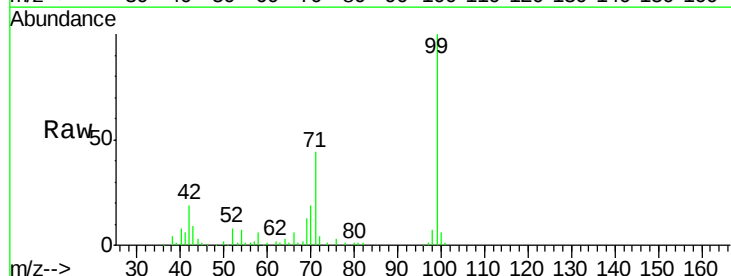
RT: 7.75 min Scan# 759

Delta R.T. -0.01 min

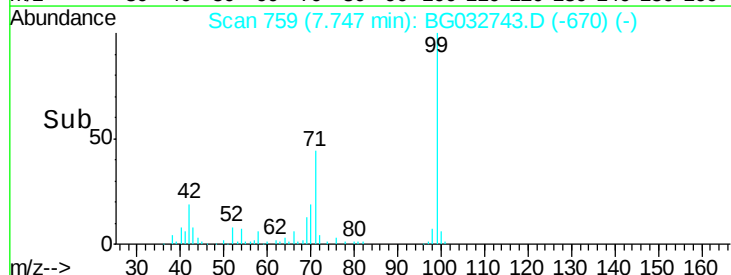
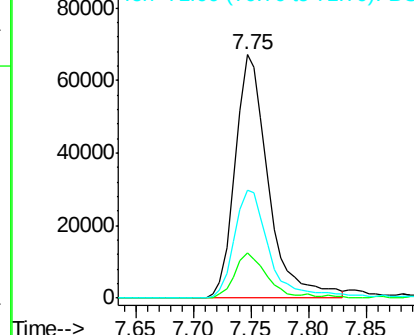
Lab File: BG032743.D

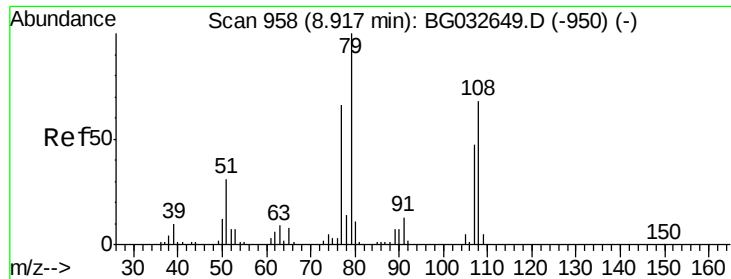
Acq: 16 Feb 2018 18:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 134388 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.5  | 14.1  | 21.1   |
| 71       | 44.2  | 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: 2.03 ng

RT: 8.96 min Scan# 966

Delta R.T. 0.09 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

Instrument :

BNA\_G

ClientSampleId :

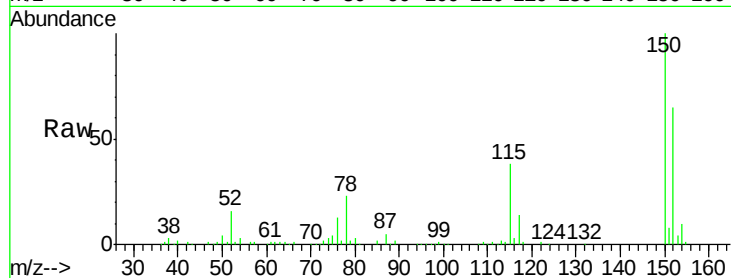
Tot Ion: 79 Resp: 1969

Ion Ratio Lower Upper

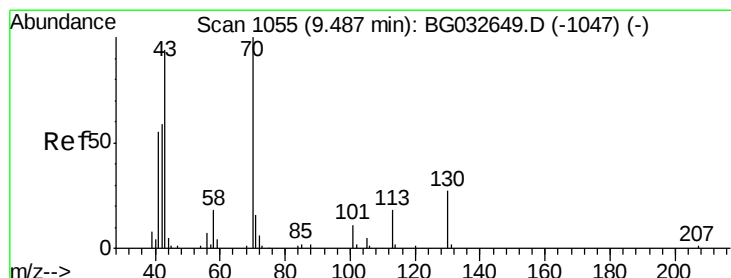
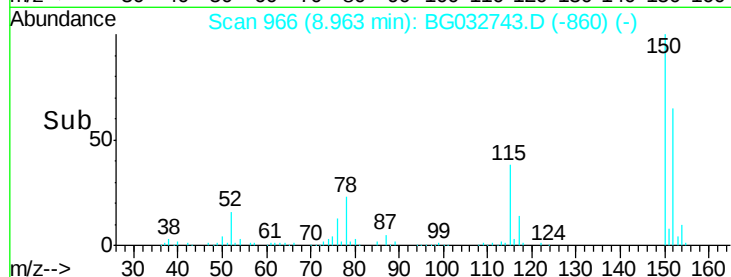
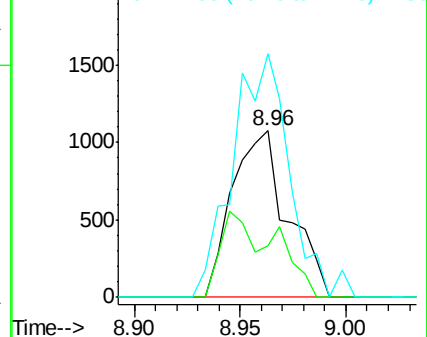
79 100

108 31.1 57.2 85.8#

77 146.3 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: 18.38 ng

RT: 9.82 min Scan# 1112

Delta R.T. 0.38 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

Tgt Ion: 70 Resp: 15980

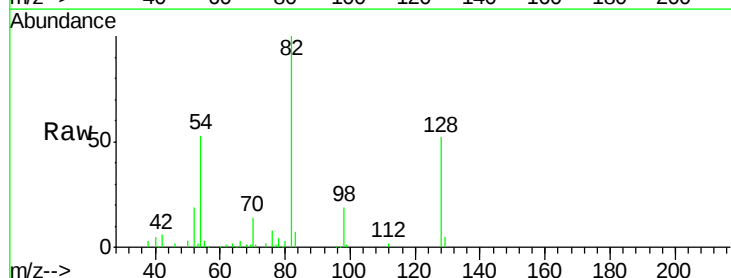
Ion Ratio Lower Upper

70 100

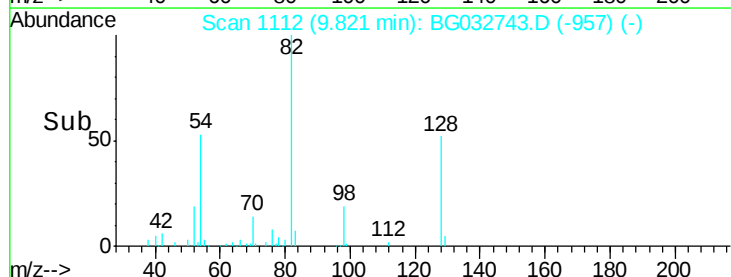
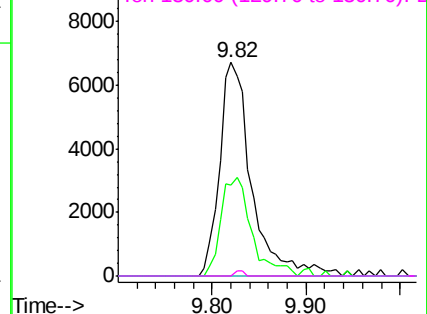
42 42.5 49.1 73.7#

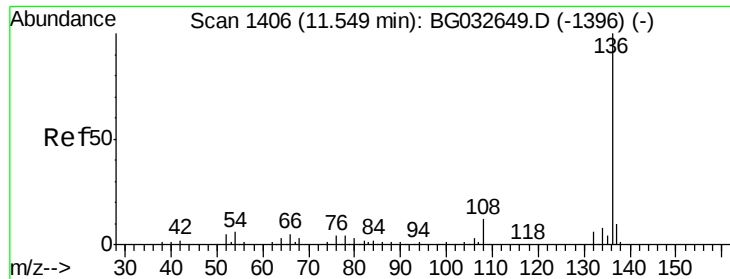
101 0.0 8.5 12.7#

130 0.0 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

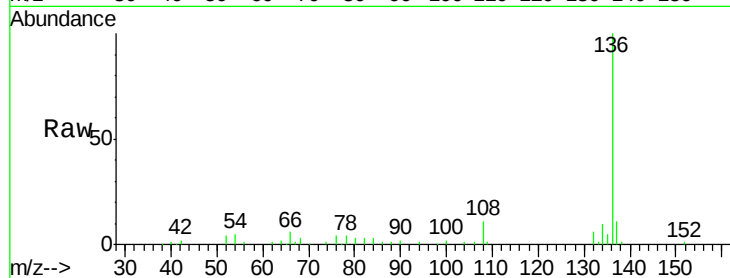




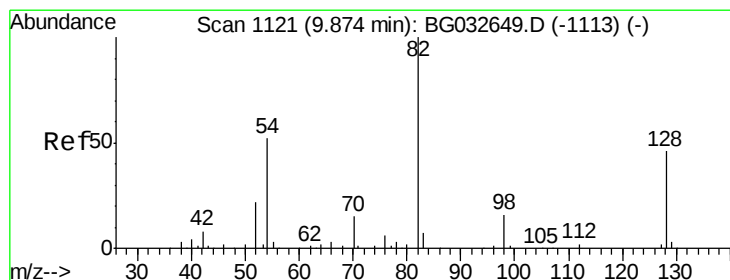
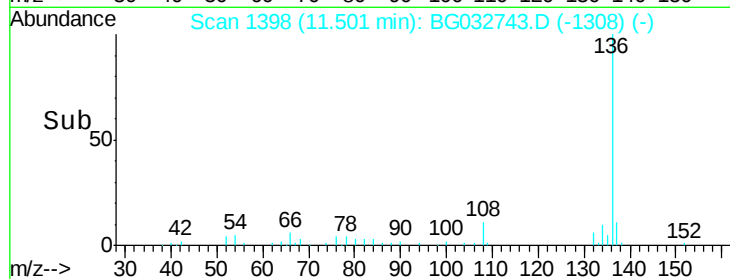
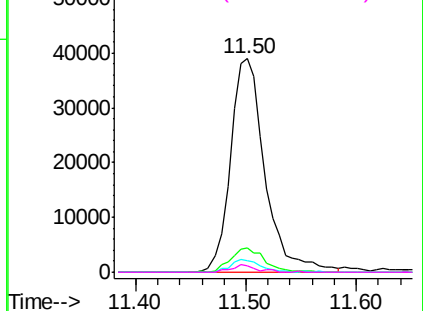
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.50 min Scan# 1398  
Delta R.T. -0.00 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 85102      |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.4  | 9.2 13.8   |
| 54          | 5.2   | 10.3 15.5# |
| 68          | 2.9   | 4.5 6.7#   |

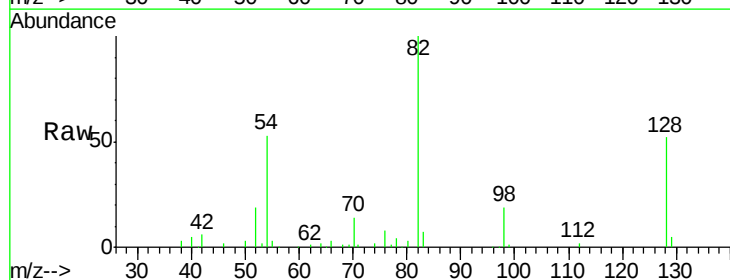


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

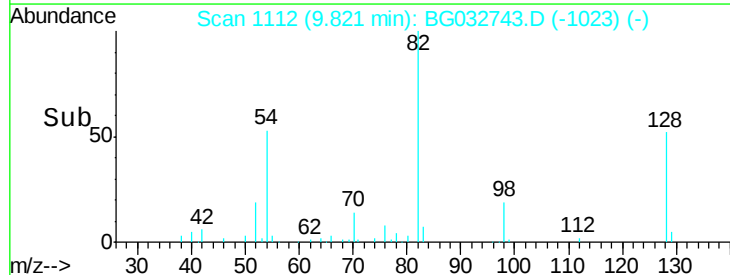
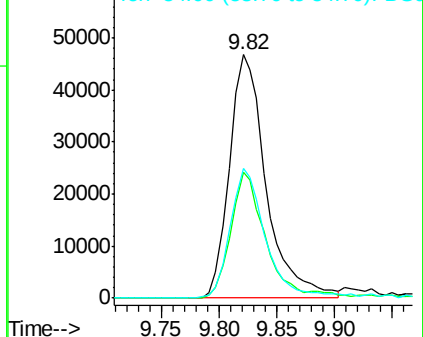


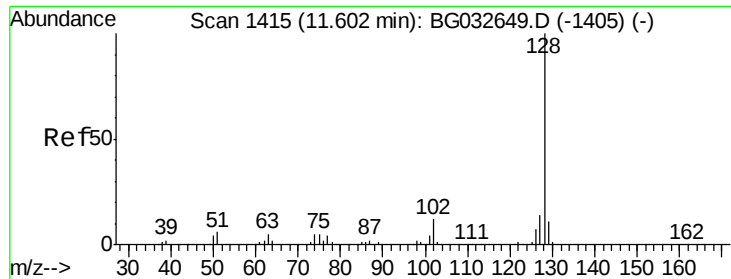
#23  
Nitrobenzene-d5  
Concen: 77.21 ng  
RT: 9.82 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 103386     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 51.7  | 29.7 44.5# |
| 54          | 53.0  | 43.1 64.7  |



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

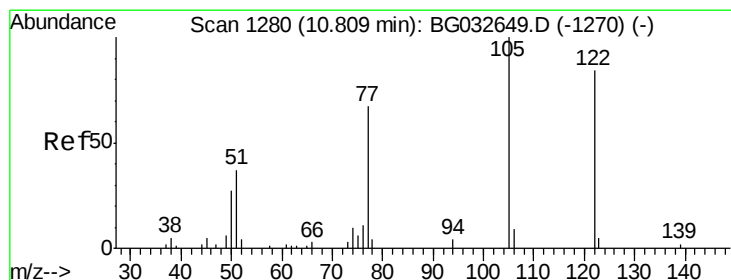
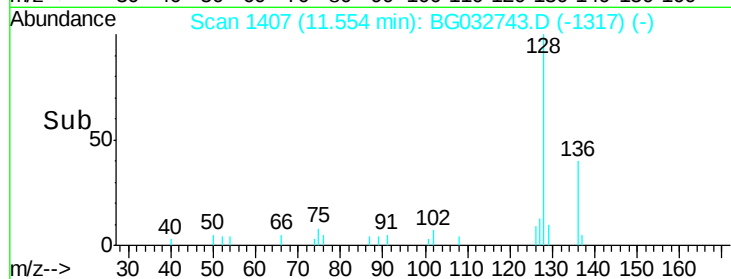
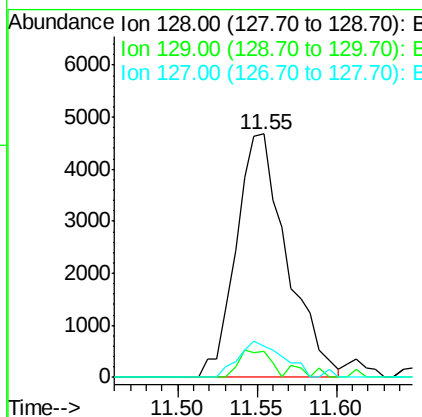
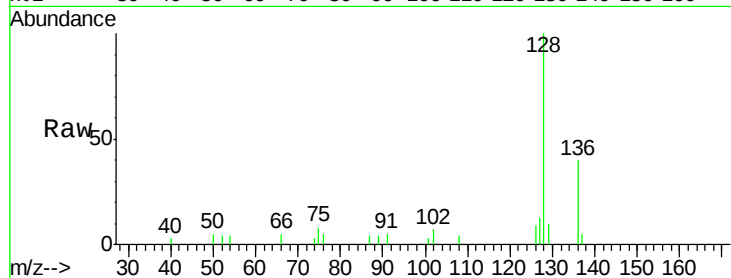




#31  
Naphthalene  
Concen: 2.51 ng  
RT: 11.55 min Scan# 1407  
Delta R.T. -0.00 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

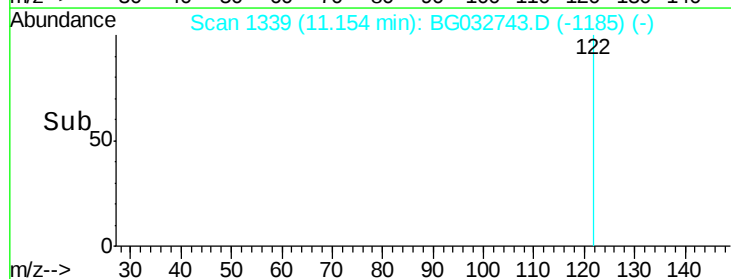
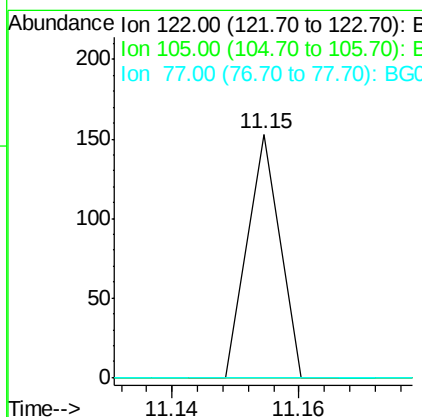
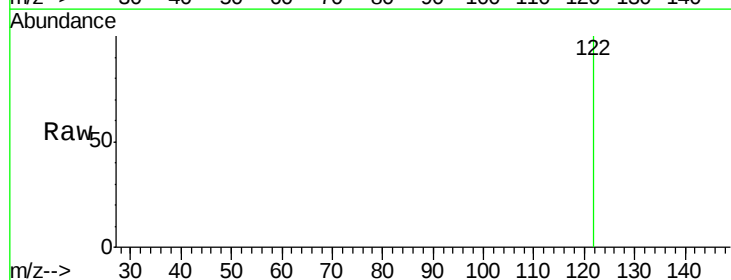
Instrument :  
BNA\_G  
ClientSampleId :

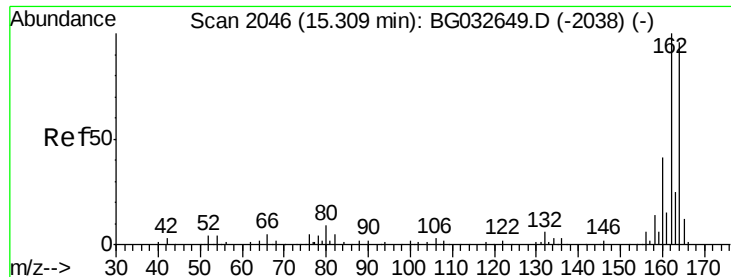
Tot Ion:128 Resp: 10359  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.6 12.8  
127 12.6 11.6 17.4



#32  
Benzoic acid  
Concen: 4.45 ng  
RT: 11.15 min Scan# 1339  
Delta R.T. 0.38 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Tgt Ion:122 Resp: 54  
Ion Ratio Lower Upper  
122 100  
105 0.0 123.5 163.5#  
77 0.0 85.7 125.7#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.27 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

Instrument :

BNA\_G

ClientSampled :

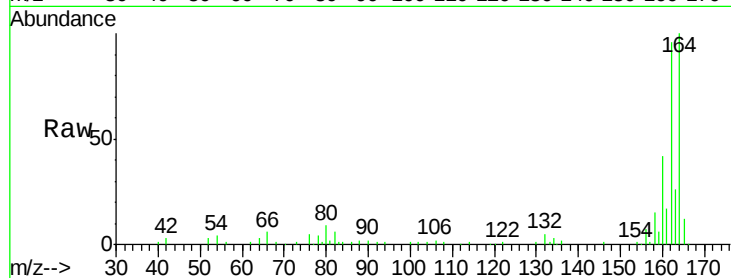
Tot Ion:164 Resp: 64792

Ion Ratio Lower Upper

164 100

162 95.9 78.8 118.2

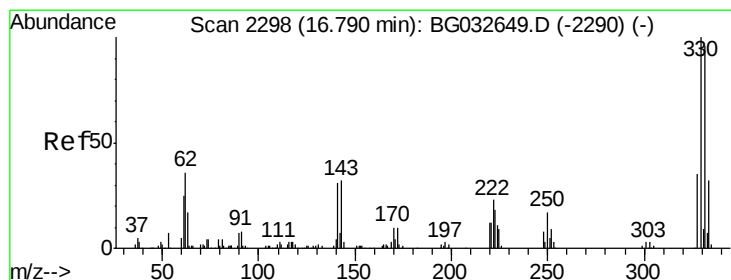
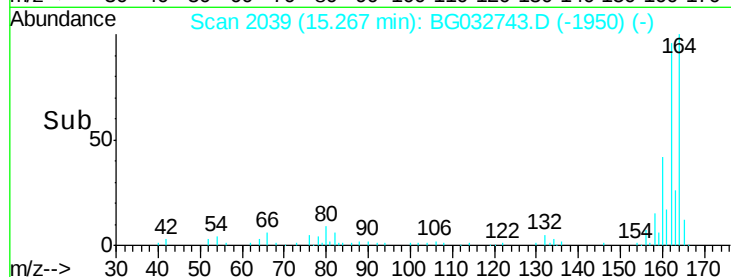
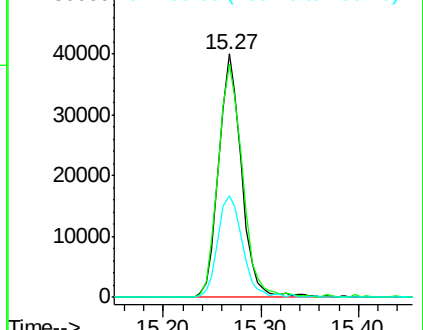
160 41.7 35.4 53.0



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: 193.32 ng

RT: 16.75 min Scan# 2291

Delta R.T. -0.01 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

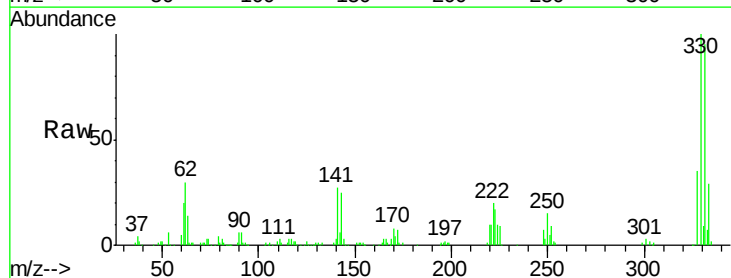
Tgt Ion:330 Resp: 192868

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

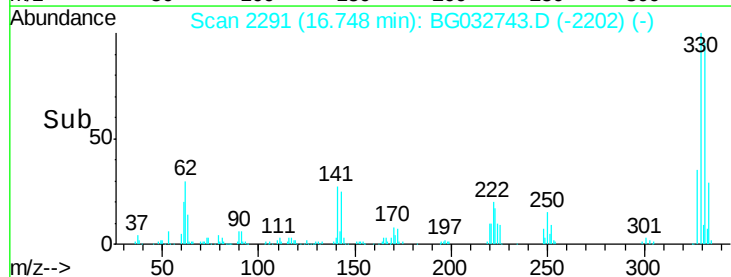
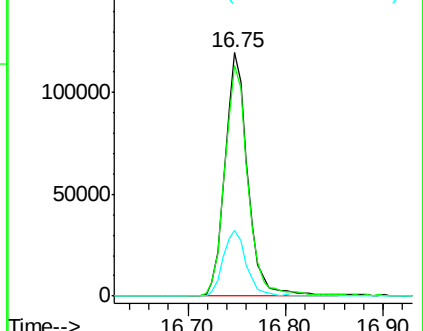
141 27.2 25.2 37.8

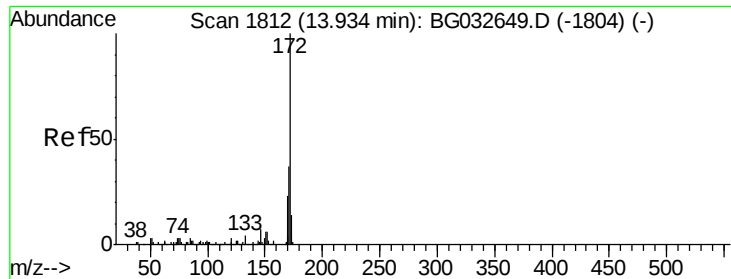


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 92.52 ng

RT: 13.89 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

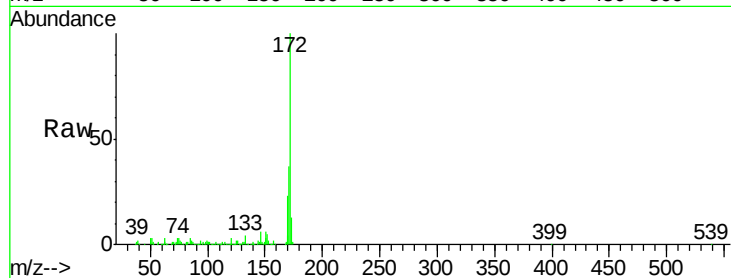
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:172 Resp: 479365

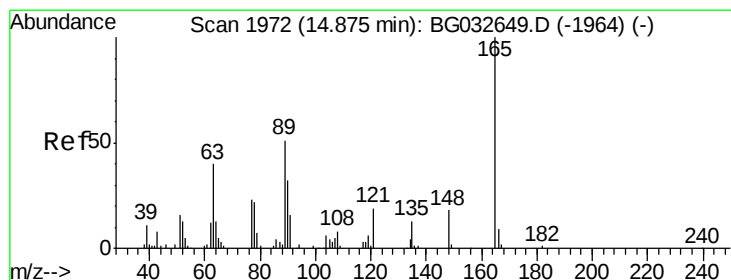
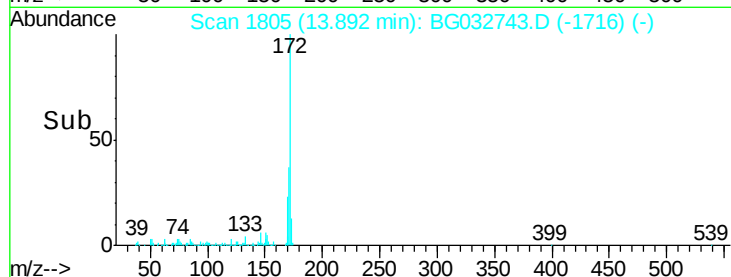
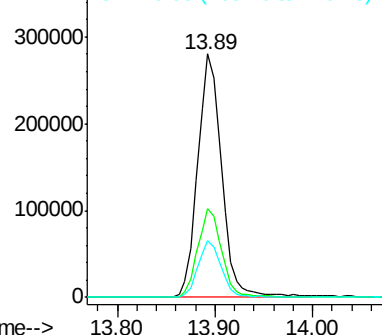
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.6  | 30.0  | 45.0  |
| 170 | 23.4  | 19.5  | 29.3  |



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: 7.43 ng

RT: 15.27 min Scan# 2039

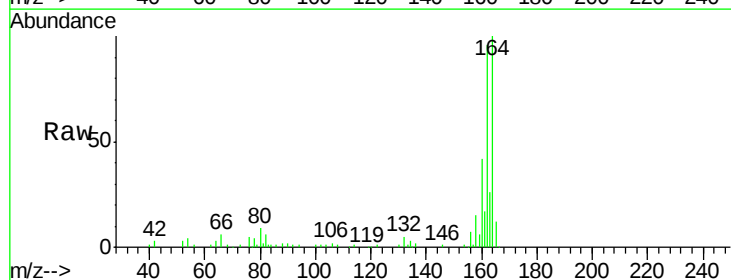
Delta R.T. 0.43 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

Tgt Ion:165 Resp: 8565

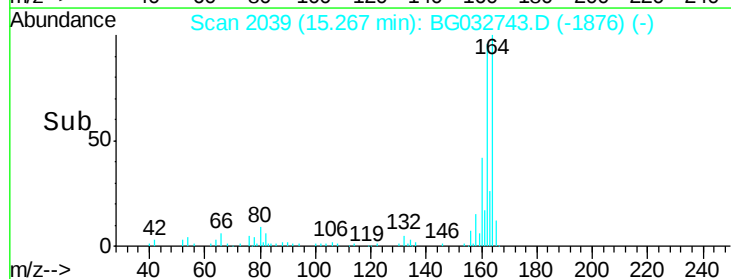
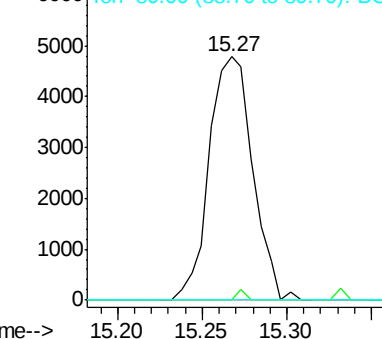
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 52.7  | 79.1# |
| 89  | 0.0   | 49.2  | 73.8# |

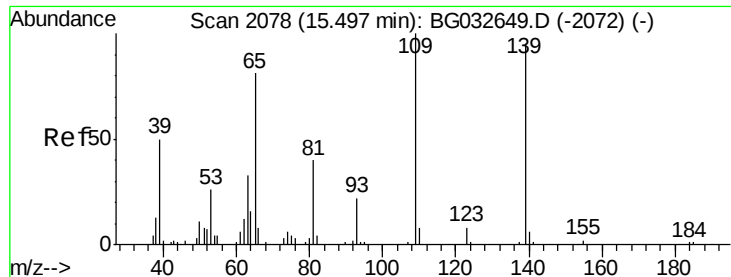


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

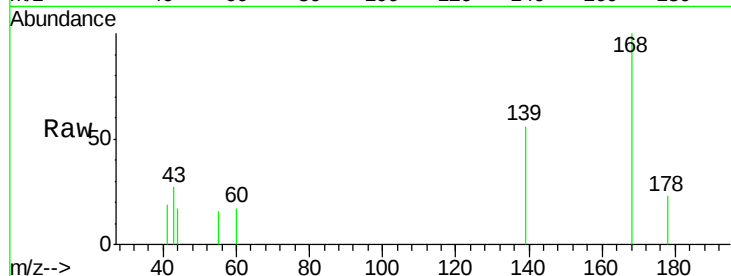




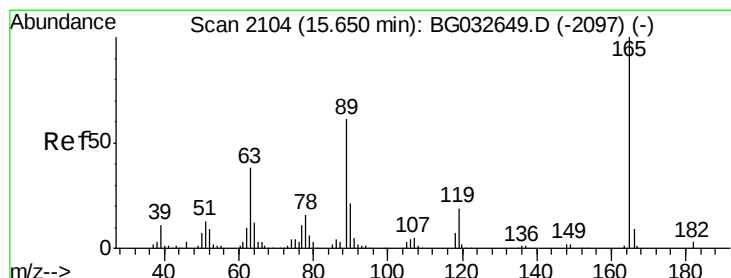
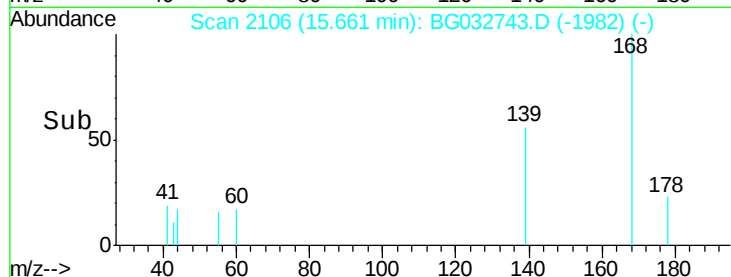
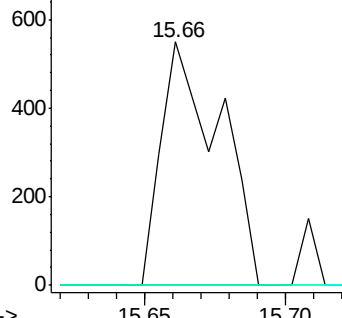
#55  
4-Nitrophenol  
Concen: 6.46 ng  
RT: 15.66 min Scan# 2106  
Delta R.T. 0.20 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:139 Resp: 788  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#

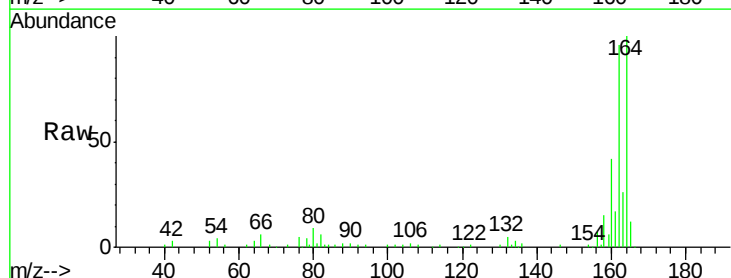


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): B

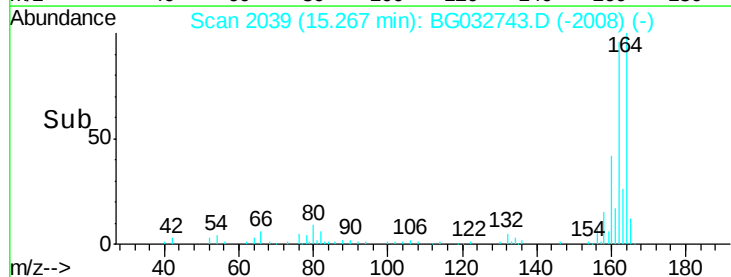
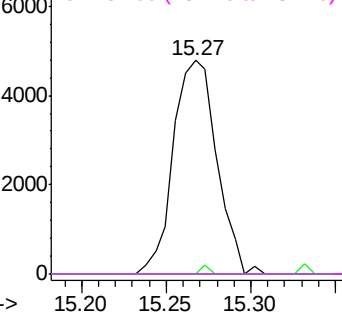


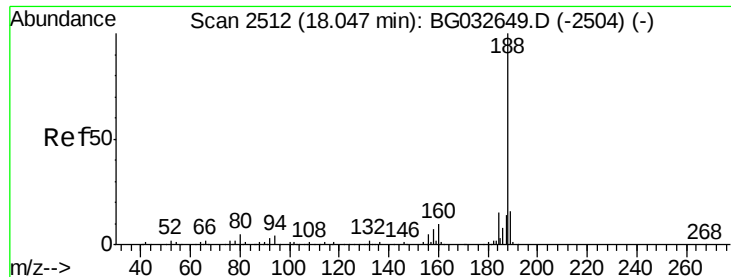
#56  
2,4-Dinitrotoluene  
Concen: 5.39 ng  
RT: 15.27 min Scan# 2039  
Delta R.T. -0.35 min  
Lab File: BG032743.D  
Acq: 16 Feb 2018 18:21

Tgt Ion:165 Resp: 8565  
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): B  
Ion 89.00 (88.70 to 89.70): B  
Ion 182.00 (181.70 to 182.70): E

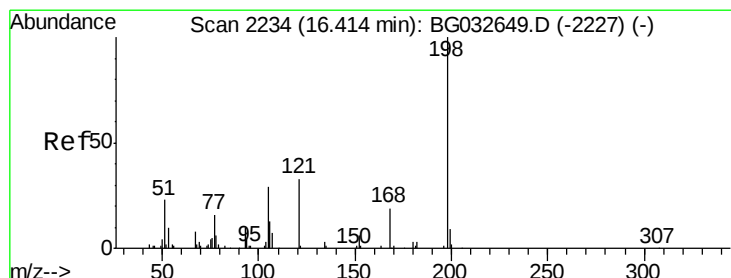
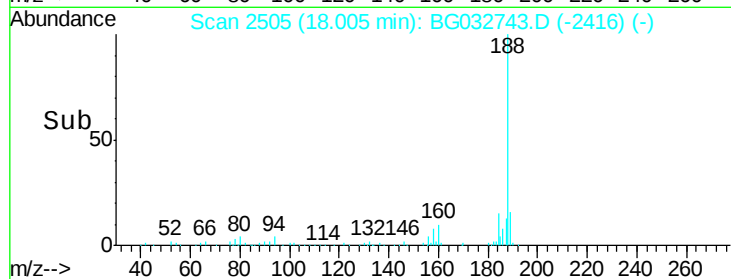
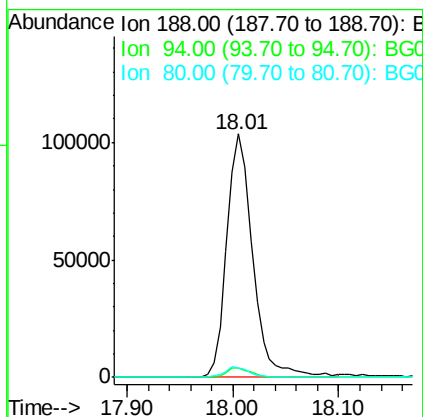
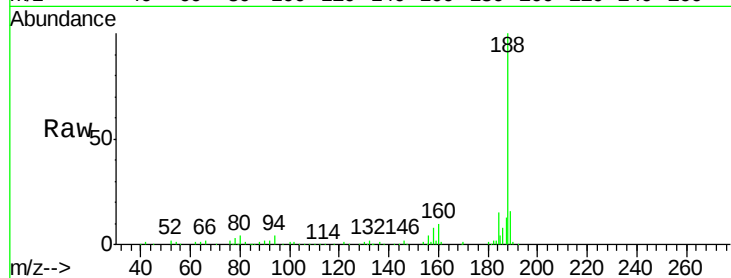




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 18.01 min Scan# 2505  
 Delta R.T. -0.01 min  
 Lab File: BG032743.D  
 Acq: 16 Feb 2018 18:21

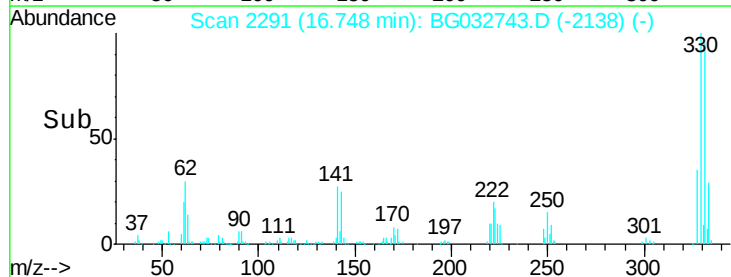
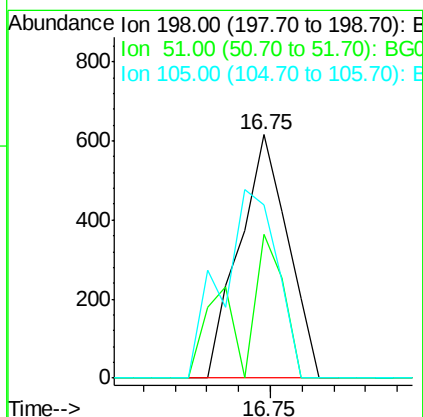
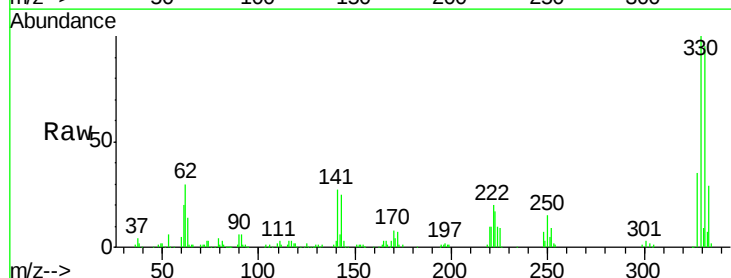
Instrument :  
 BNA\_G  
 ClientSampled :

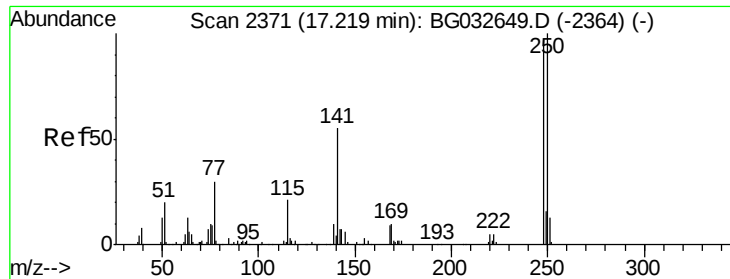
Tot Ion:188 Resp: 176896  
 Ion Ratio Lower Upper  
 188 100  
 94 3.6 6.9 10.3#  
 80 4.1 7.7 11.5#



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.48 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. 0.37 min  
 Lab File: BG032743.D  
 Acq: 16 Feb 2018 18:21

Tgt Ion:198 Resp: 652  
 Ion Ratio Lower Upper  
 198 100  
 51 59.3 30.6 70.6  
 105 71.3 23.8 63.8#

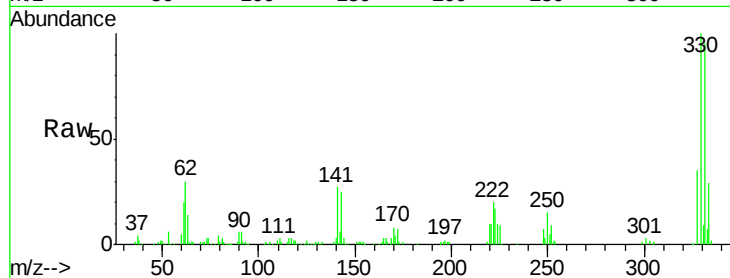




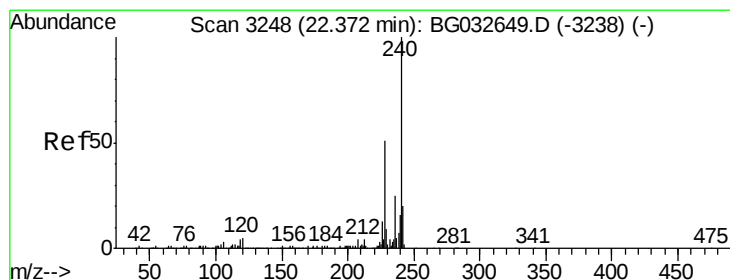
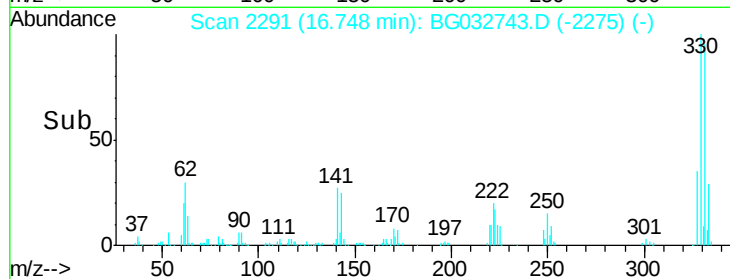
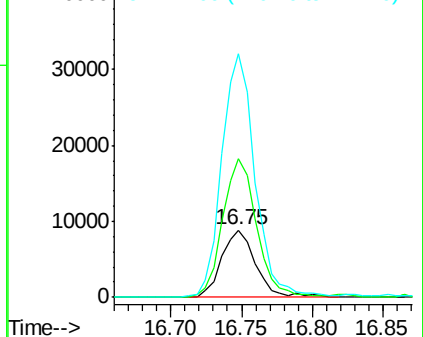
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.90 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. -0.43 min  
 Lab File: BG032743.D  
 Acq: 16 Feb 2018 18:21

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 14940  
 Ion Ratio Lower Upper  
 248 100  
 250 206.4 77.1 115.7#  
 141 361.5 50.8 76.2#

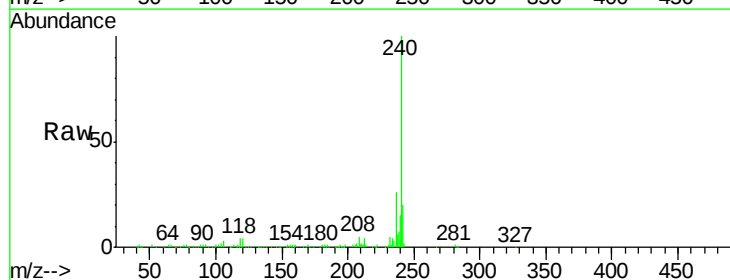


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

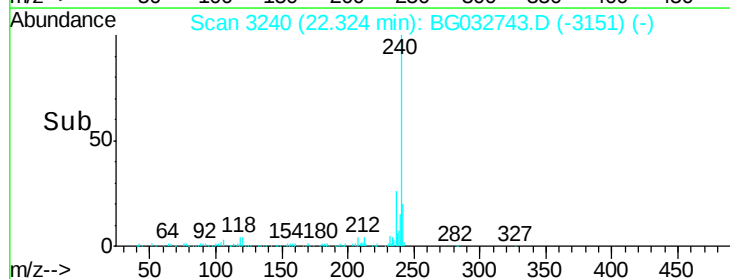
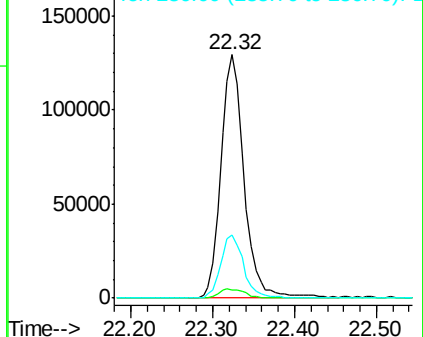


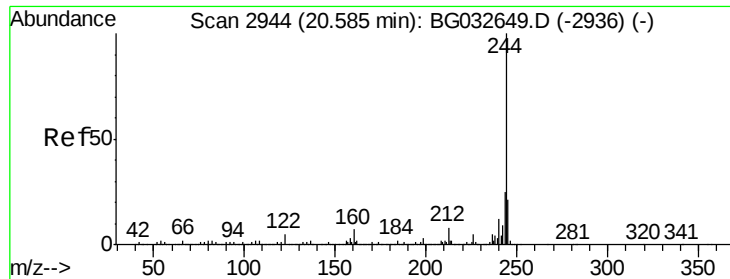
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 22.32 min Scan# 3240  
 Delta R.T. -0.01 min  
 Lab File: BG032743.D  
 Acq: 16 Feb 2018 18:21

Tgt Ion:240 Resp: 254688  
 Ion Ratio Lower Upper  
 240 100  
 120 3.6 6.8 10.2#  
 236 25.8 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 86.01 ng

RT: 20.56 min Scan# 2939

Delta R.T. -0.00 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

Instrument :

BNA\_G

ClientSampled :

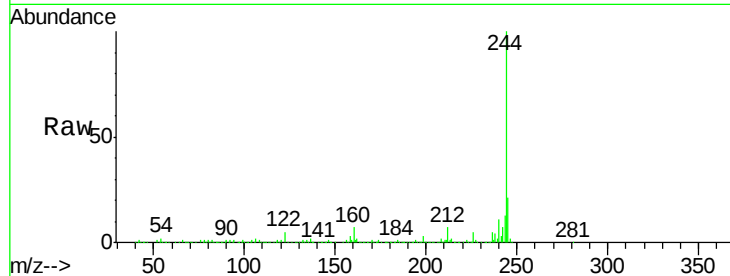
Tot Ion:244 Resp: 961132

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

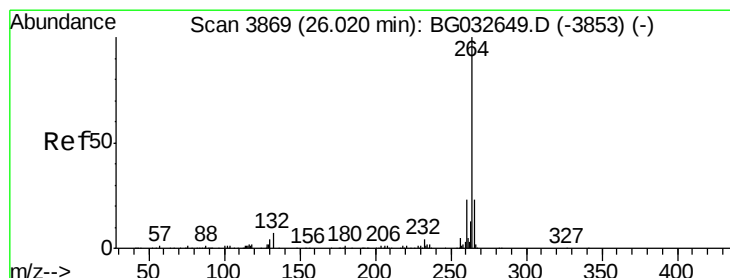
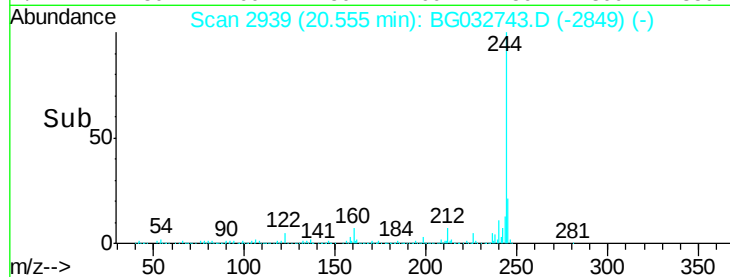
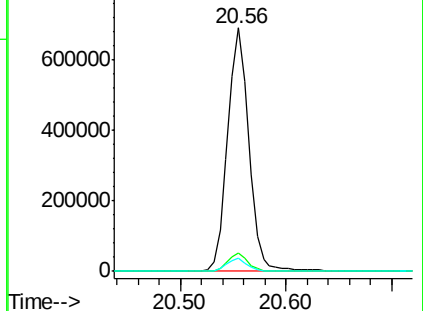
122 5.2 7.0 10.4#



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: 20.00 ng

RT: 25.94 min Scan# 3855

Delta R.T. -0.01 min

Lab File: BG032743.D

Acq: 16 Feb 2018 18:21

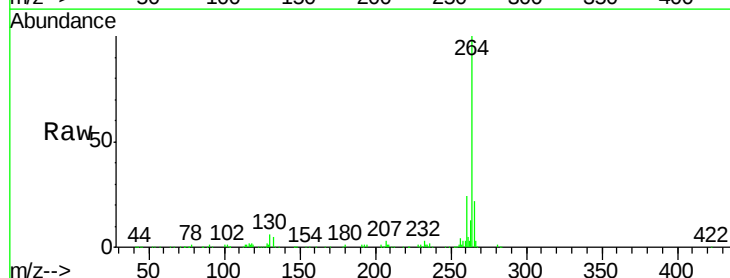
Tgt Ion:264 Resp: 277894

Ion Ratio Lower Upper

264 100

260 23.6 17.4 26.0

265 21.9 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

