

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG020518\  
 Data File : BG032563.D  
 Acq On : 6 Feb 2018 9:25  
 Operator : SJ/JU  
 Sample : PB106300TB  
 Misc : MDL8PPM  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

Quant Time: Feb 06 10:16:52 2018  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 29 15:32:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.71  | 152  | 17546    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 11.58 | 136  | 66687    | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 15.34 | 164  | 46013    | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 18.08 | 188  | 122088   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 22.40 | 240  | 160376   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 26.07 | 264  | 180306   | 20.00 | ng    | -0.02    |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 6.14  | 112 | 105076 | 120.28 | ng | -0.01 |
| 7) Phenol-d6                | 7.82  | 99  | 126632 | 108.63 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 9.90  | 82  | 75116  | 70.36  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 16.82 | 330 | 94201  | 107.55 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 13.97 | 172 | 283103 | 73.13  | ng | -0.02 |
| 78) Terphenyl-d14           | 20.61 | 244 | 601291 | 80.31  | ng | -0.01 |

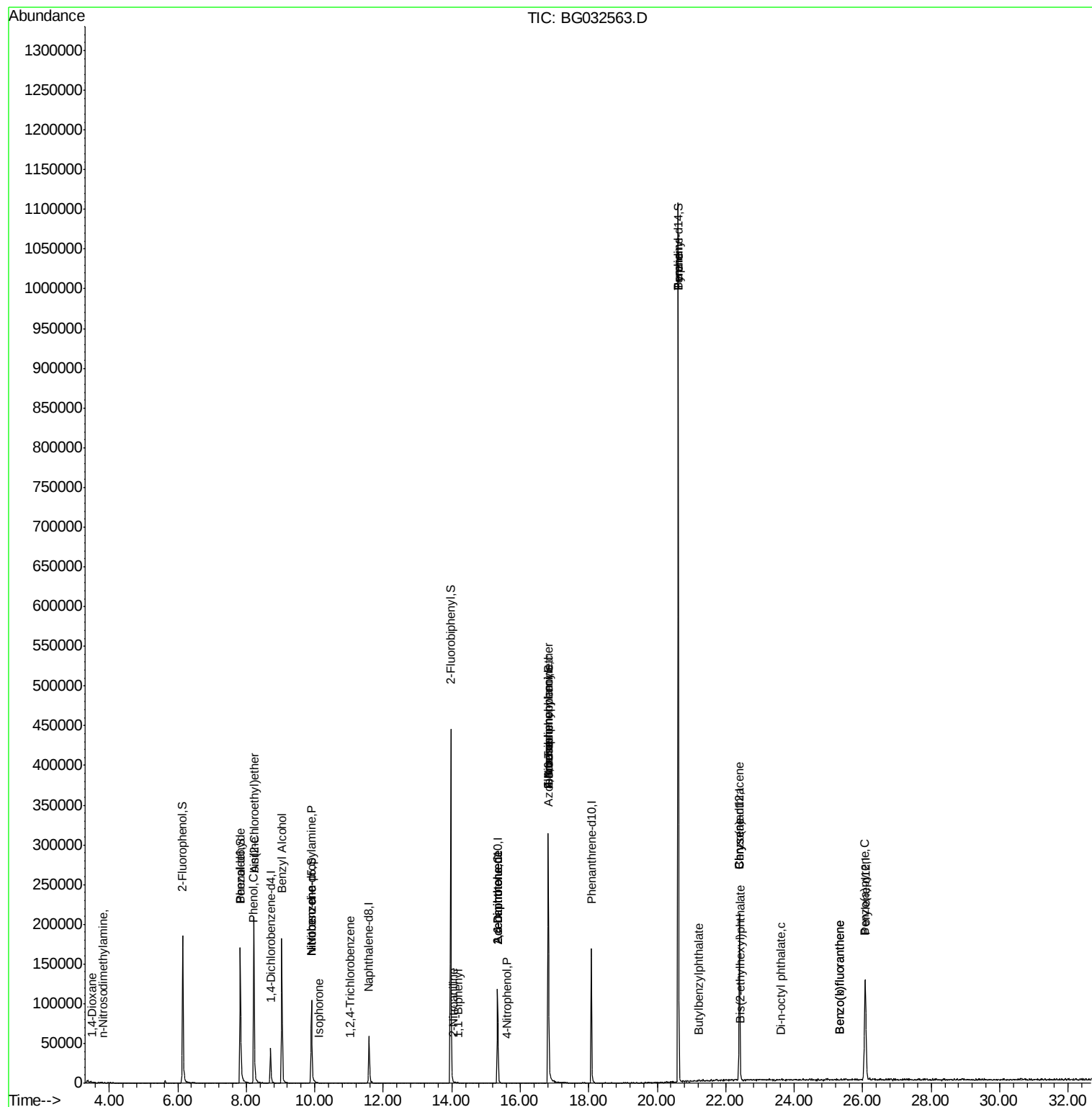
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.51  | 88  | 53    | 0.180  | ng | # 1  |
| 4) n-Nitrosodimethylamine      | 3.81  | 42  | 59    | 0.143  | ng | # 1  |
| 6) Aniline                     | 8.22  | 93  | 86    | 0.059  | ng | # 1  |
| 9) Benzaldehyde                | 7.84  | 77  | 63    | 0.105  | ng | # 5  |
| 10) Phenol                     | 8.21  | 94  | 67    | 0.061  | ng | # 1  |
| 11) bis(2-Chloroethyl)ether    | 8.22  | 93  | 86    | 0.102  | ng | # 1  |
| 15) Benzyl Alcohol             | 9.04  | 79  | 1636  | 1.703  | ng | # 18 |
| 19) n-Nitroso-di-n-propylamine | 9.90  | 70  | 10491 | 13.573 | ng | # 72 |
| 24) Nitrobenzene               | 9.91  | 77  | 56    | 0.054  | ng | # 42 |
| 25) Isophorone                 | 10.13 | 82  | 157   | 0.086  | ng | # 69 |
| 30) 1,2,4-Trichlorobenzene     | 11.04 | 180 | 63    | 0.040  | ng | # 12 |
| 45) 1,1'-Biphenyl              | 14.18 | 154 | 175   | 0.045  | ng | # 65 |
| 47) 2-Nitroaniline             | 14.06 | 65  | 53    | 0.079  | ng | # 9  |
| 50) 2,6-Dinitrotoluene         | 15.34 | 165 | 5635  | 6.328  | ng | # 22 |
| 51) Acenaphthene               | 15.34 | 154 | 66    | 0.021  | ng | # 5  |
| 55) 4-Nitrophenol              | 15.60 | 139 | 64    | 0.110  | ng | # 1  |
| 56) 2,4-Dinitrotoluene         | 15.34 | 165 | 5635  | 4.444  | ng | # 20 |
| 57) Fluorene                   | 16.82 | 166 | 1708  | 0.435  | ng | # 83 |
| 62) Azobenzene                 | 16.81 | 77  | 176   | 0.071  | ng | # 48 |
| 65) n-Nitrosodiphenylamine     | 16.81 | 169 | 2115  | 0.580  | ng | # 38 |
| 66) 4-Bromophenyl-phenylether  | 16.82 | 248 | 6887  | 3.808  | ng | # 1  |
| 76) Benzidine                  | 20.61 | 184 | 7561  | 2.401  | ng | # 86 |
| 77) Pyrene                     | 20.61 | 202 | 1797  | 0.183  | ng | # 51 |
| 79) Butylbenzylphthalate       | 21.21 | 149 | 57    | 0.018  | ng | # 20 |
| 80) Benzo(a)anthracene         | 22.41 | 228 | 252   | 0.025  | ng | # 34 |
| 82) Chrysene                   | 22.41 | 228 | 252   | 0.026  | ng | # 38 |
| 83) Bis(2-ethylhexyl)phthalate | 22.44 | 149 | 190   | 0.043  | ng | # 50 |
| 84) Di-n-octyl phthalate       | 23.60 | 149 | 67    | 0.010  | ng | # 74 |
| 87) Benzo(b)fluoranthene       | 25.33 | 252 | 57    | 0.005  | ng | # 59 |
| 88) Benzo(k)fluoranthene       | 25.33 | 252 | 57    | 0.005  | ng | # 60 |
| 89) Benzo(a)pyrene             | 26.06 | 252 | 328   | 0.032  | ng | # 59 |

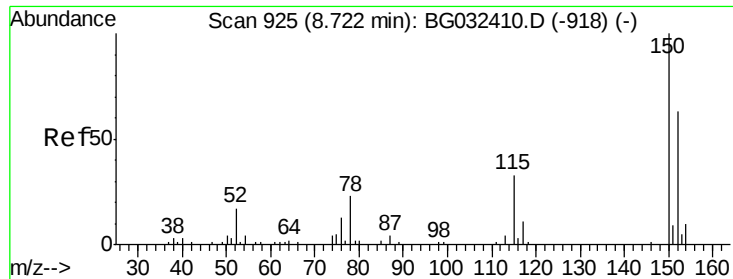
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA\_G\DATA\BG020518\  
Data File : BG032563.D  
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Sample : PB106300TB  
Misc : MDL8PPM  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_G  
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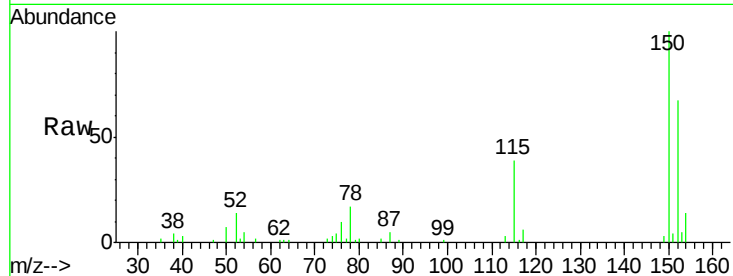




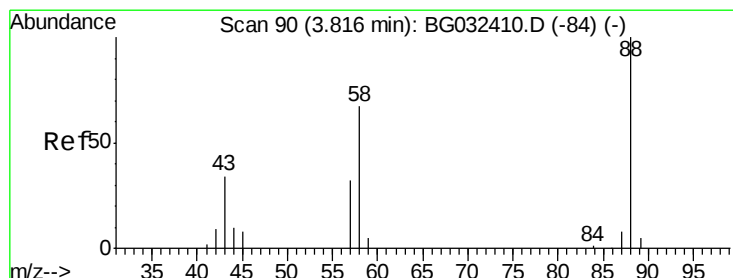
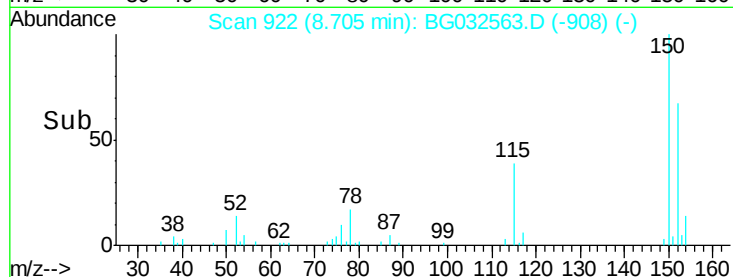
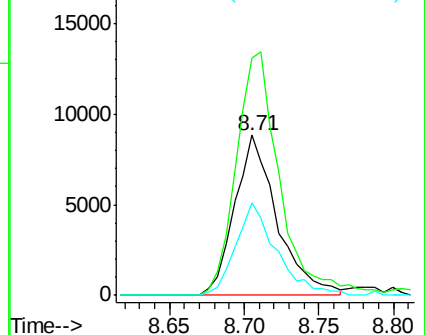
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.71 min Scan# 922  
 Delta R.T. -0.02 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

Tgt Ion:152 Resp: 17546  
 Ion Ratio Lower Upper  
 152 100  
 150 148.8 126.6 189.8  
 115 58.3 53.0 79.4

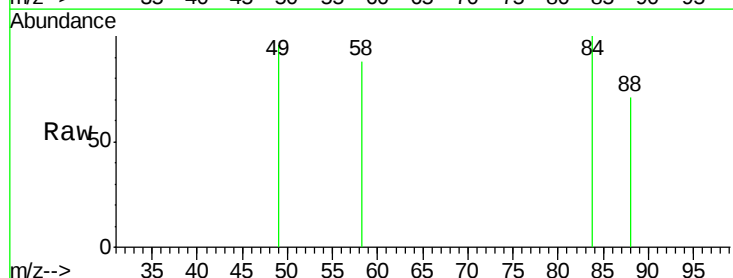


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

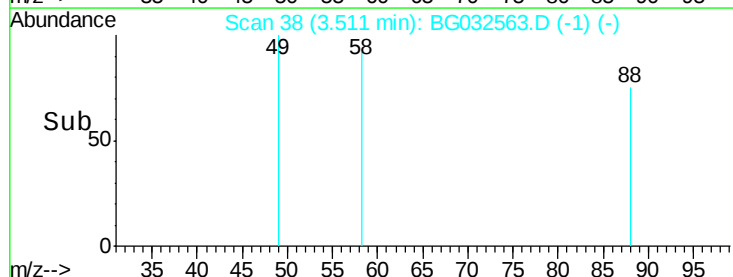
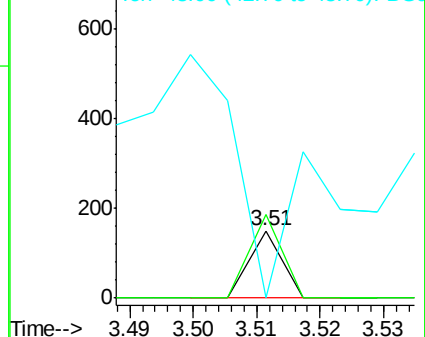


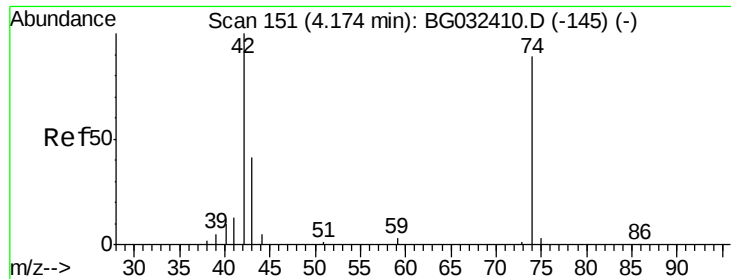
#2  
 1,4-Dioxane  
 Concen: 0.180 ng  
 RT: 3.51 min Scan# 38  
 Delta R.T. -0.30 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Tgt Ion: 88 Resp: 53  
 Ion Ratio Lower Upper  
 88 100  
 58 122.6 79.6 119.4#  
 43 928.3 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





#4

n-Nitrosodimethylamine

Concen: 0.143 ng

RT: 3.81 min Scan# 88

Delta R.T. -0.37 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

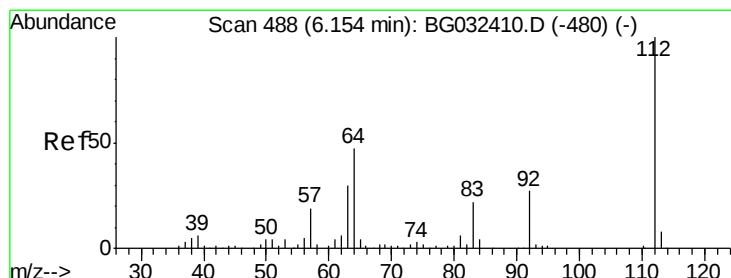
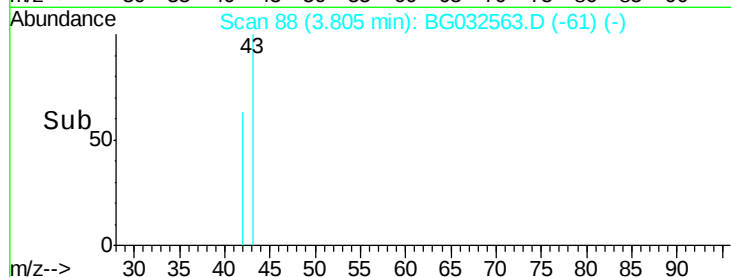
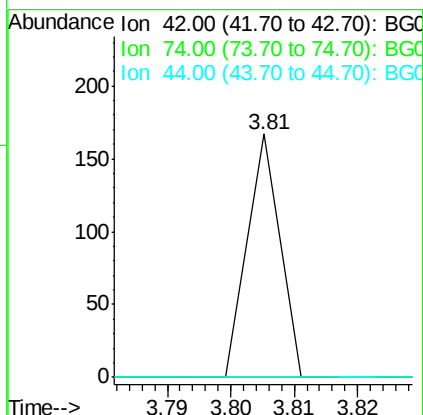
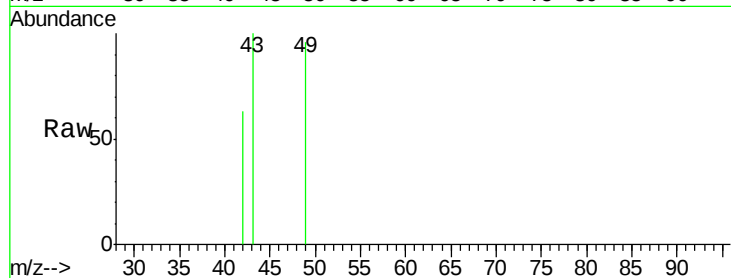
Instrument :

BNA\_G

ClientSampleId :

PB106300TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 59     |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 0.0   | 102.5 | 153.7# |
| 44       | 0.0   | 18.9  | 28.3#  |



#5

2-Fluorophenol

Concen: 120.284 ng

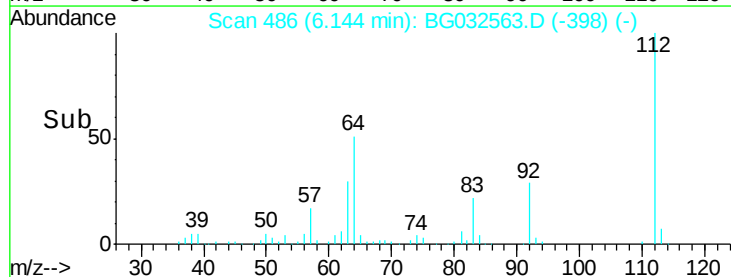
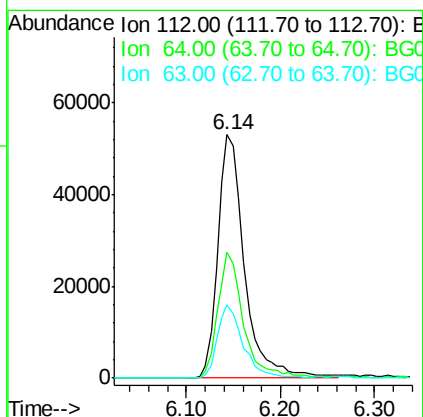
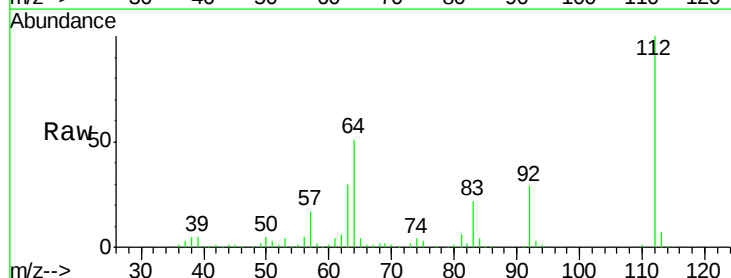
RT: 6.14 min Scan# 486

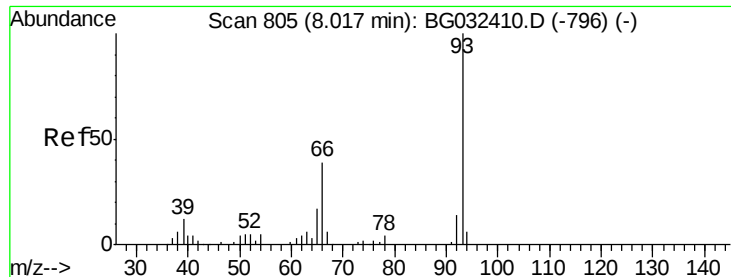
Delta R.T. -0.01 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 105076 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 51.5  | 56.3  | 84.5#  |
| 63       | 30.3  | 30.1  | 45.1   |





#6

Aniline

Concen: 0.059 ng

RT: 8.22 min Scan# 839

Delta R.T. 0.20 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

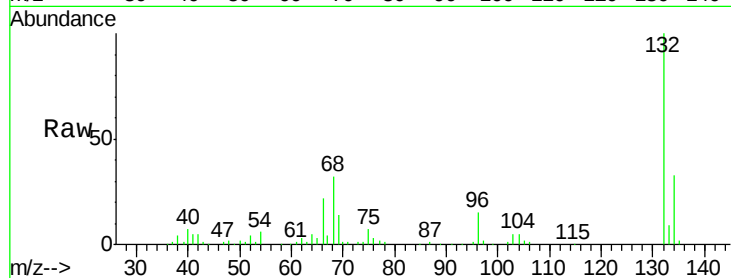
Tgt Ion: 93 Resp: 86

Ion Ratio Lower Upper

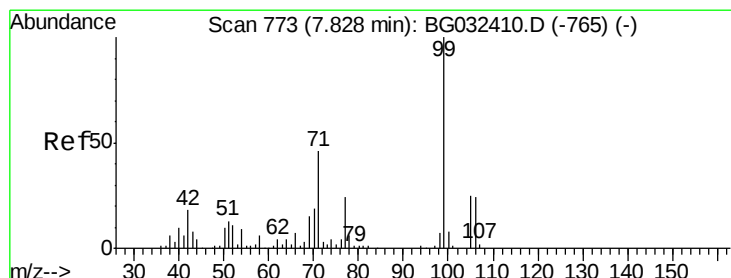
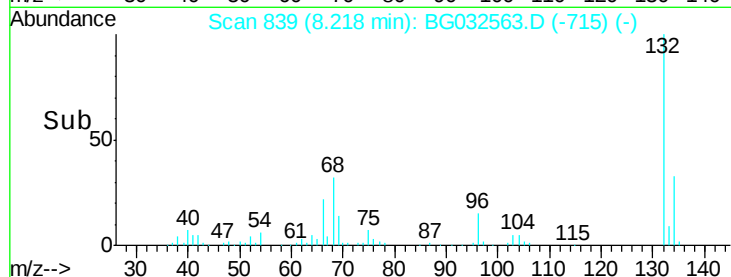
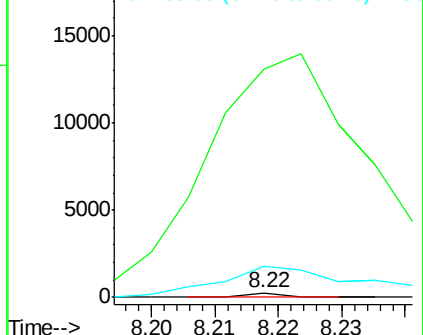
93 100

66 5363.5 33.7 50.5#

65 729.5 16.1 24.1#



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC



#7

Phenol-d6

Concen: 108.632 ng

RT: 7.82 min Scan# 772

Delta R.T. -0.00 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

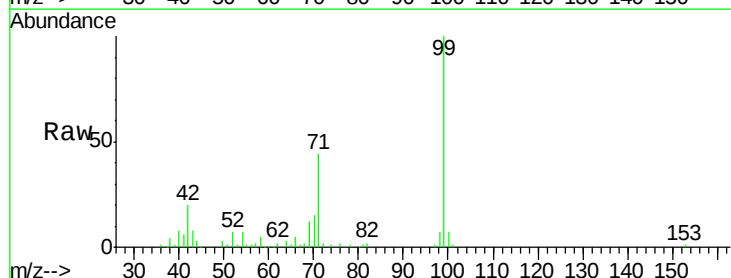
Tgt Ion: 99 Resp: 126632

Ion Ratio Lower Upper

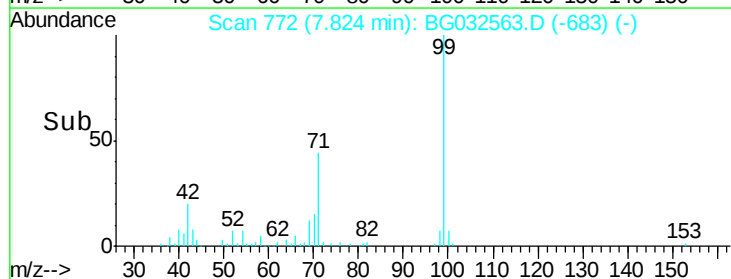
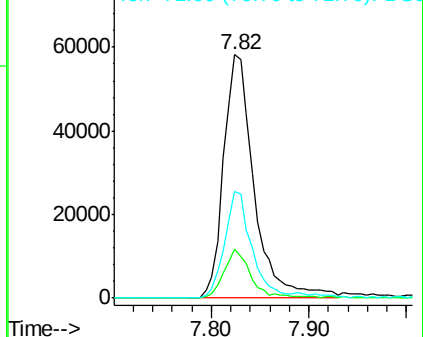
99 100

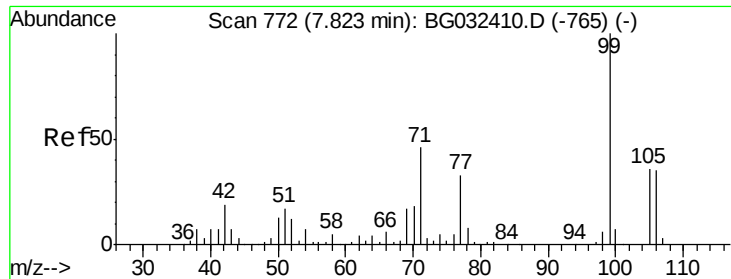
42 20.1 14.1 21.1

71 44.0 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





#9

Benzaldehyde

Concen: 0.105 ng

RT: 7.84 min Scan# 774

Delta R.T. 0.01 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

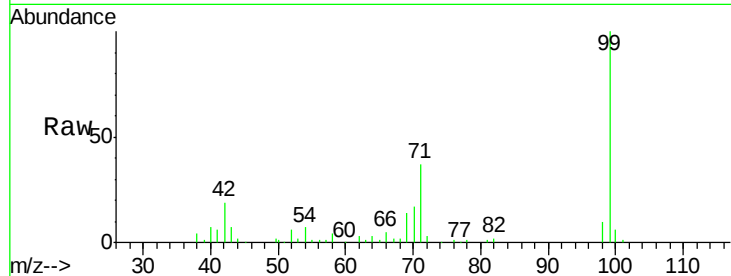
Tgt Ion: 77 Resp: 63

Ion Ratio Lower Upper

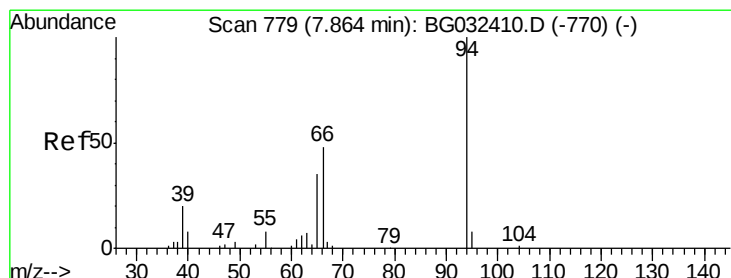
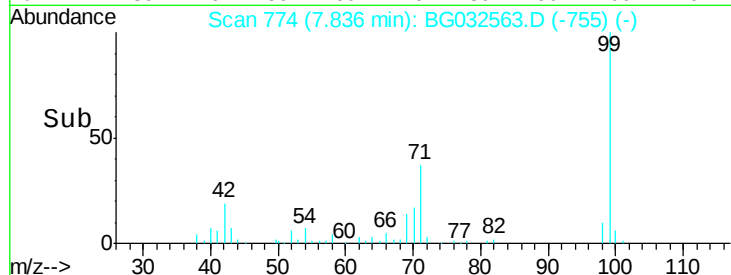
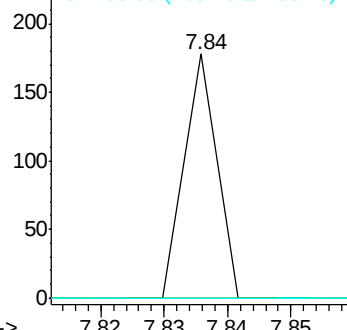
77 100

105 0.0 71.3 111.3#

106 0.0 64.2 104.2#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC



#10

Phenol

Concen: 0.061 ng

RT: 8.21 min Scan# 837

Delta R.T. 0.34 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

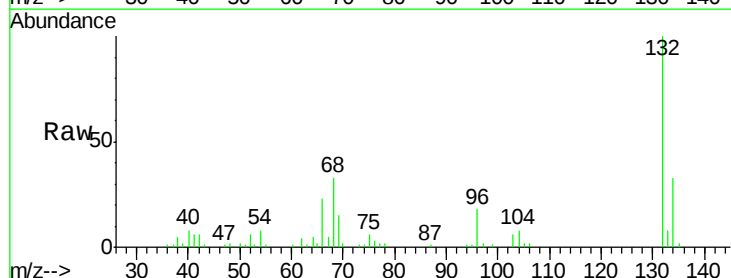
Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

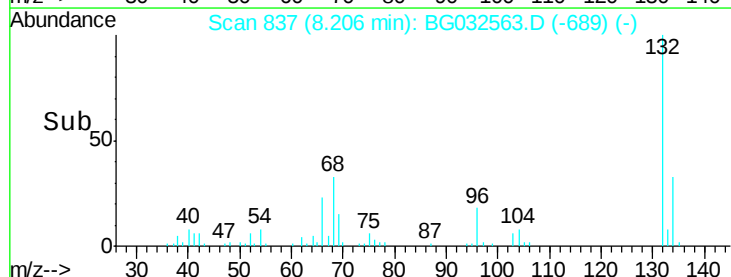
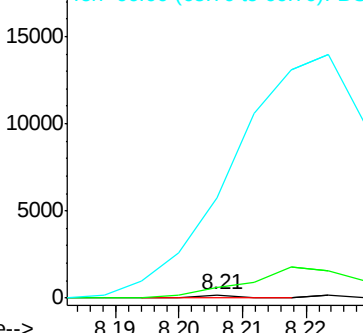
94 100

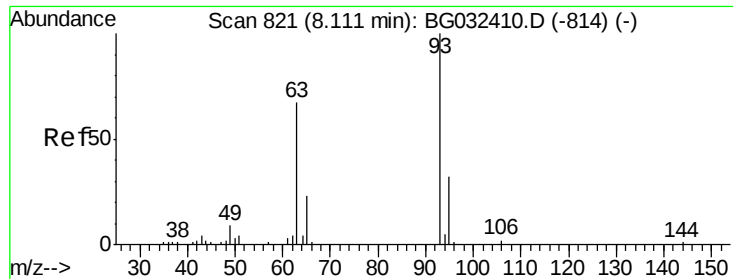
65 307.4 11.9 51.9#

66 3011.6 22.2 62.2#



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

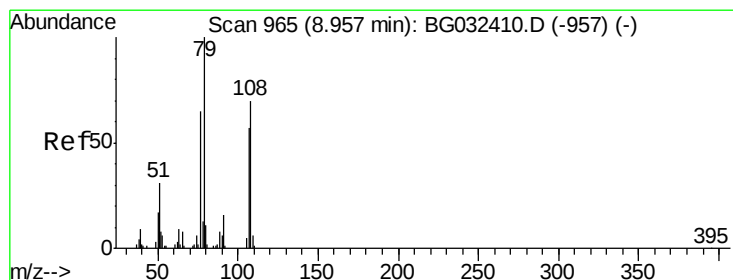
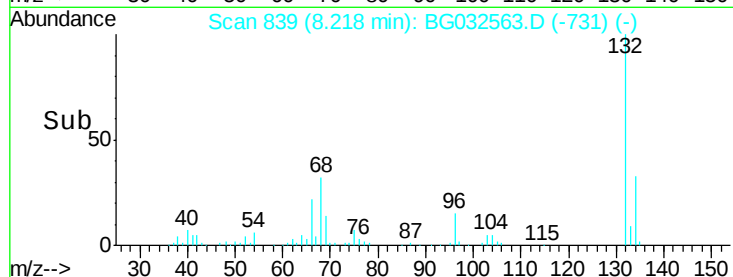
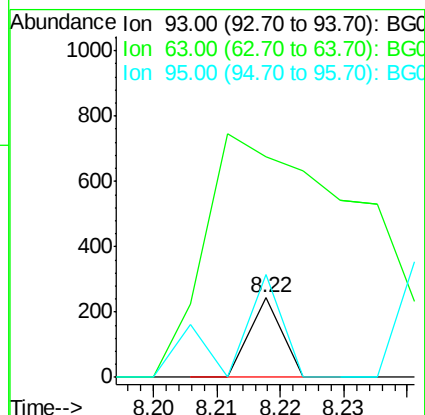
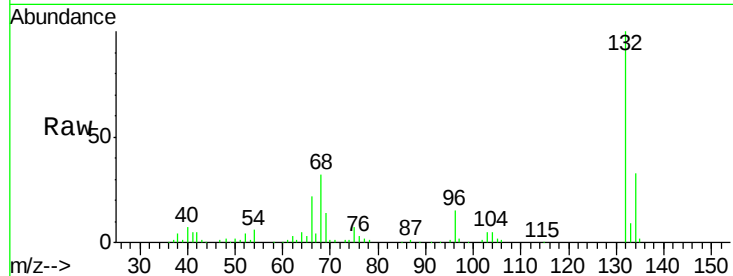




#11  
bis(2-Chloroethyl)ether  
Concen: 0.102 ng  
RT: 8.22 min Scan# 839  
Delta R.T. 0.11 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

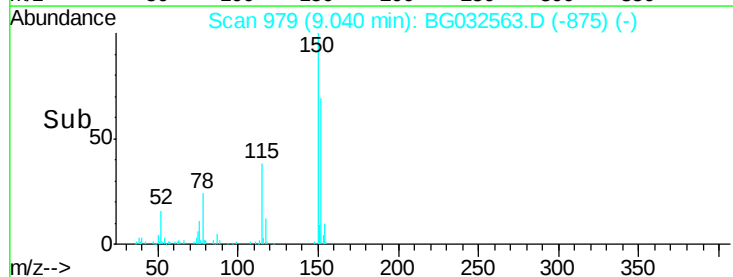
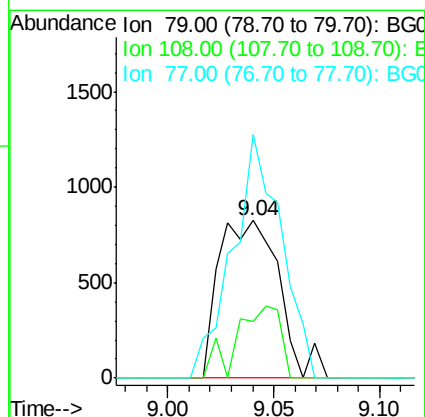
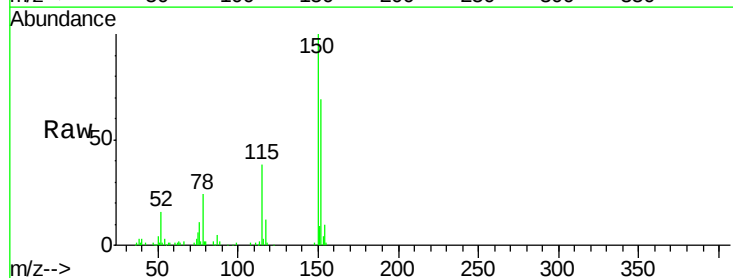
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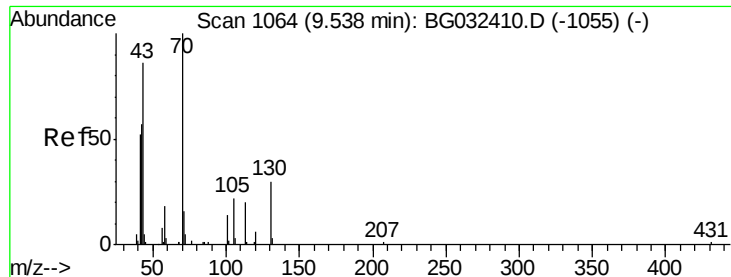
Tgt Ion: 93 Resp: 86  
Ion Ratio Lower Upper  
93 100  
63 276.6 67.1 107.1#  
95 129.5 11.5 51.5#



#15  
Benzyl Alcohol  
Concen: 1.703 ng  
RT: 9.04 min Scan# 979  
Delta R.T. 0.08 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

Tgt Ion: 79 Resp: 1636  
Ion Ratio Lower Upper  
79 100  
108 36.1 57.2 85.8#  
77 154.4 46.1 69.1#

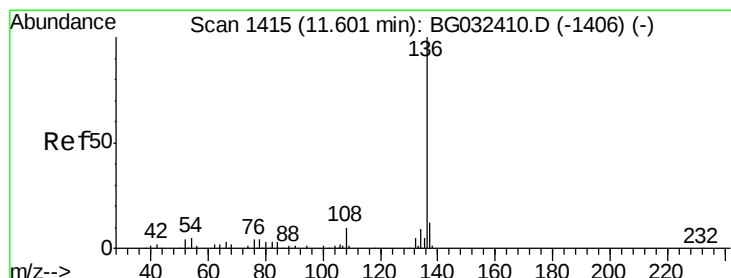
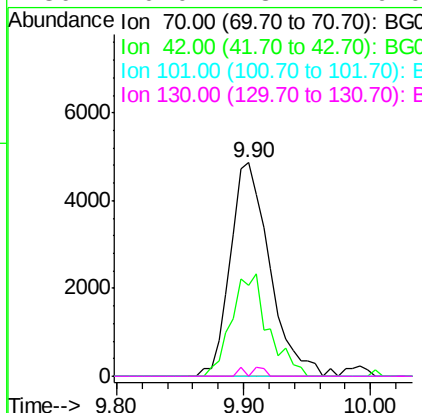
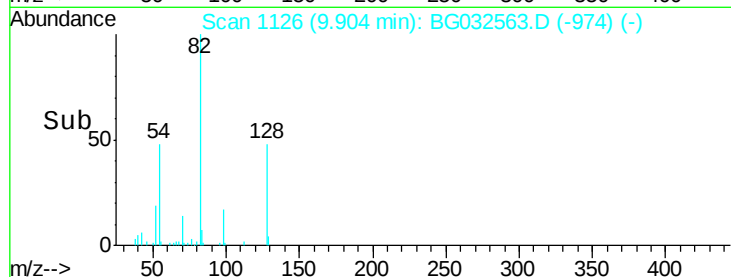
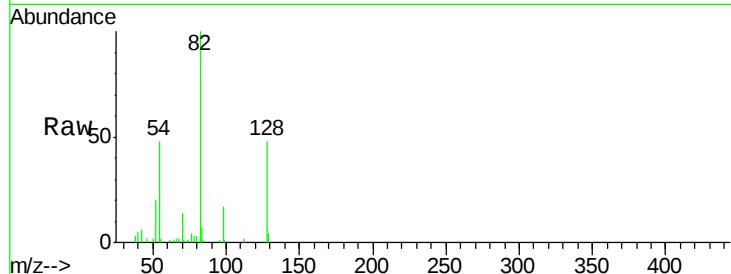




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.573 ng  
RT: 9.90 min Scan# 1126  
Delta R.T. 0.37 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

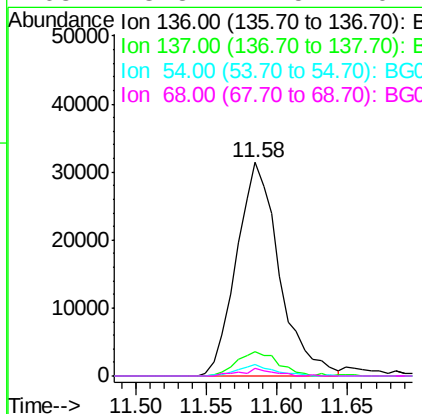
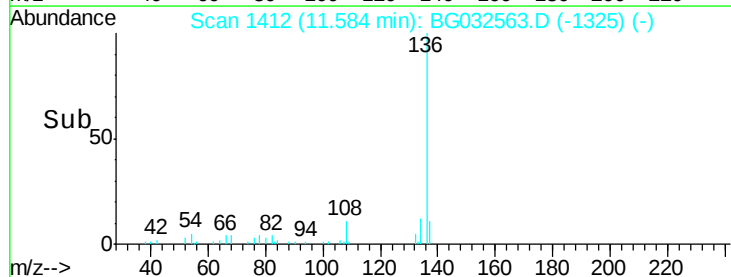
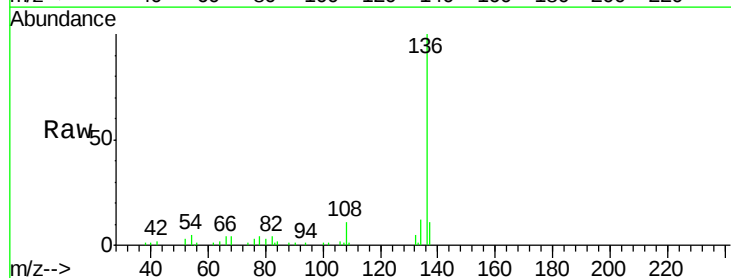
Instrument :  
BNA\_G  
ClientSampleId :  
PB106300TB

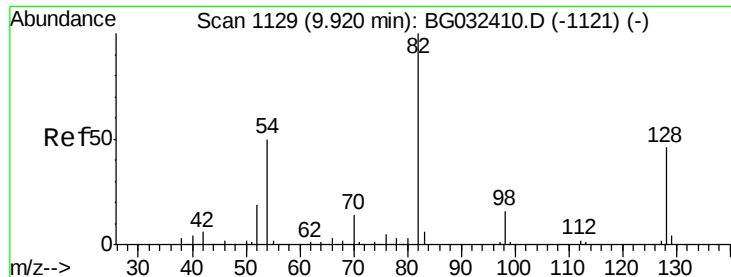
Tgt Ion: 70 Resp: 10491  
Ion Ratio Lower Upper  
70 100  
42 42.4 49.1 73.7#  
101 0.0 8.5 12.7#  
130 0.0 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.58 min Scan# 1412  
Delta R.T. -0.02 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

Tgt Ion: 136 Resp: 66687  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.2 13.8  
54 5.3 10.3 15.5#  
68 3.8 4.5 6.7#

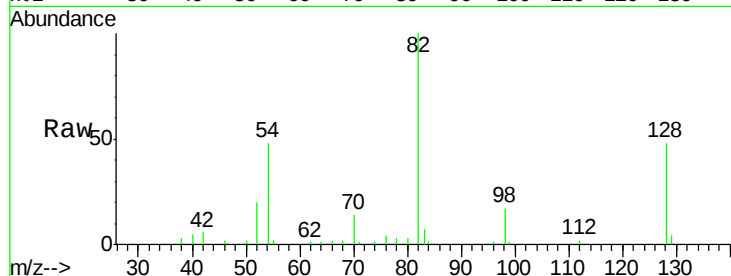




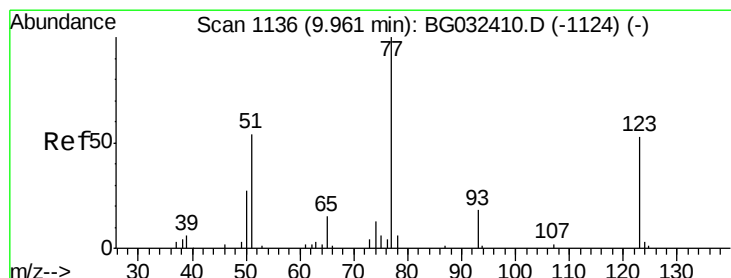
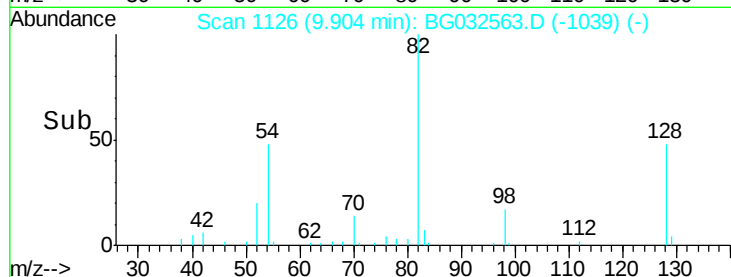
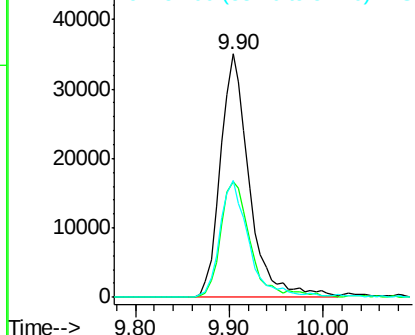
#23  
 Nitrobenzene-d5  
 Concen: 70.355 ng  
 RT: 9.90 min Scan# 1126  
 Delta R.T. -0.02 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

Tgt Ion: 82 Resp: 75116  
 Ion Ratio Lower Upper  
 82 100  
 128 47.7 29.7 44.5#  
 54 48.0 43.1 64.7

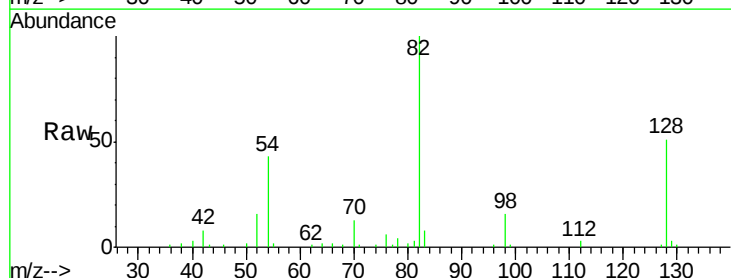


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

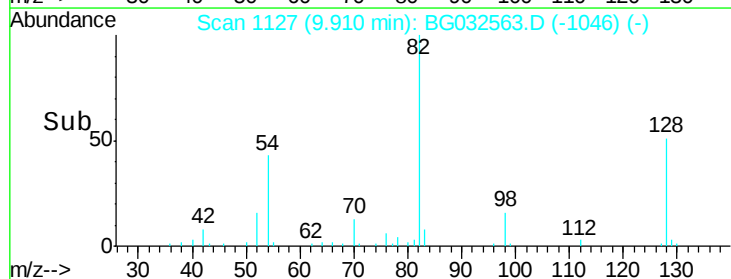
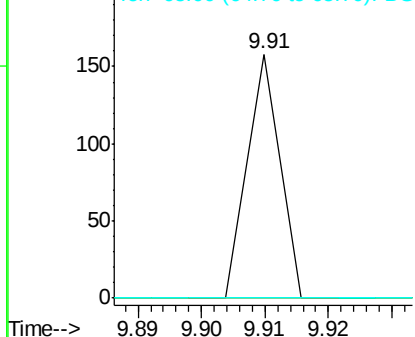


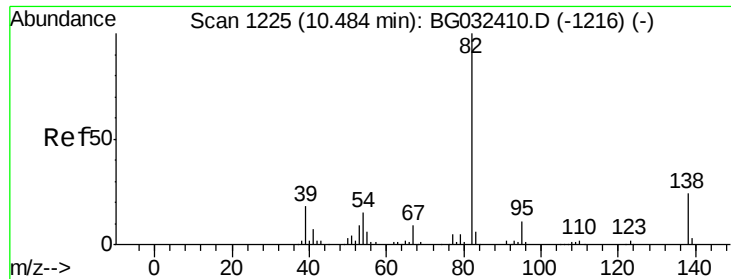
#24  
 Nitrobenzene  
 Concen: 0.054 ng  
 RT: 9.91 min Scan# 1127  
 Delta R.T. -0.05 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Tgt Ion: 77 Resp: 56  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.6#  
 65 0.0 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
 Ion 123.00 (122.70 to 123.70): BGC  
 Ion 65.00 (64.70 to 65.70): BGC





#25

Isophorone

Concen: 0.086 ng

RT: 10.13 min Scan# 1165

Delta R.T. -0.35 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

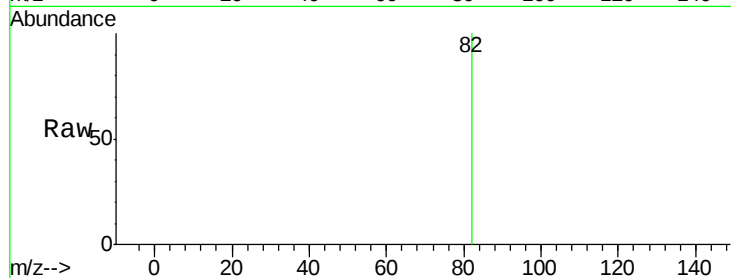
Tgt Ion: 82 Resp: 157

Ion Ratio Lower Upper

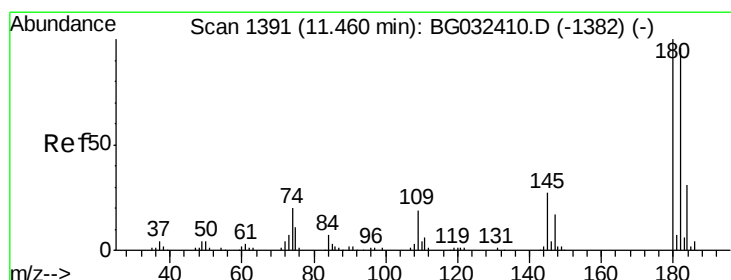
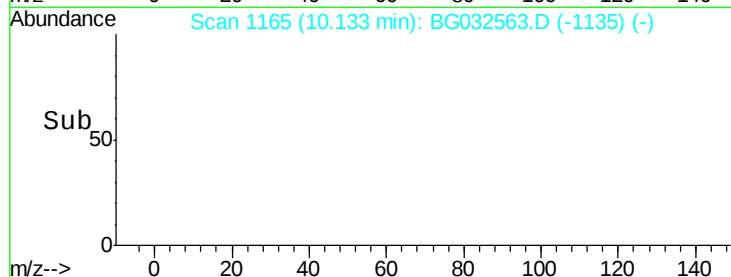
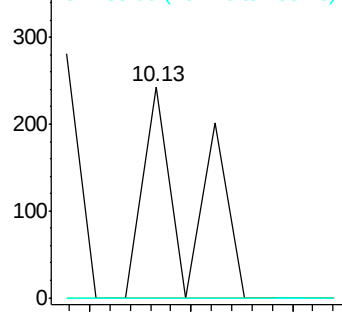
82 100

95 0.0 6.2 9.2#

138 0.0 12.1 18.1#



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#30

1,2,4-Trichlorobenzene

Concen: 0.040 ng

RT: 11.04 min Scan# 1319

Delta R.T. -0.42 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

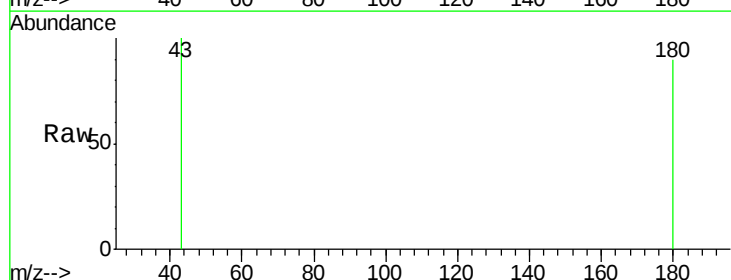
Tgt Ion: 180 Resp: 63

Ion Ratio Lower Upper

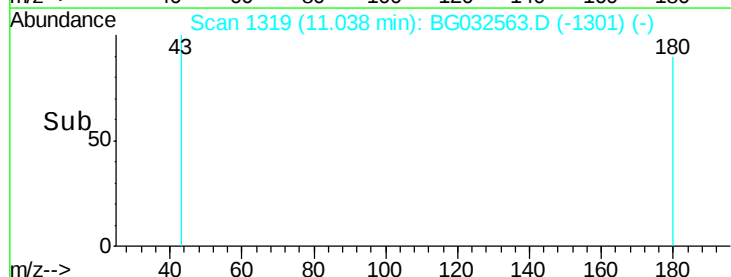
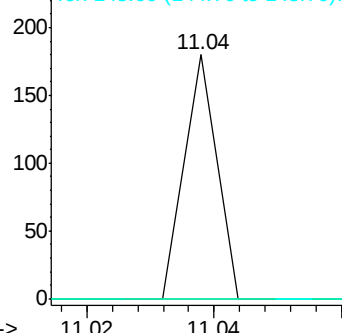
180 100

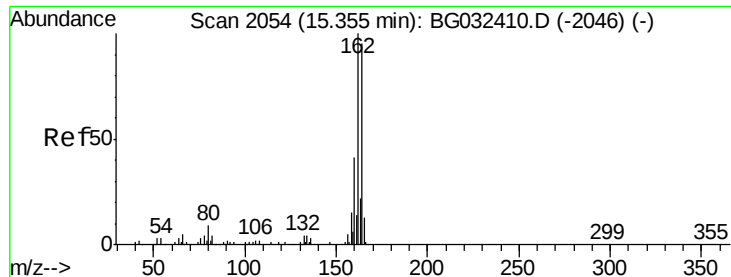
182 0.0 77.5 116.3#

145 0.0 23.4 35.2#



Abundance Ion 180.00 (179.70 to 180.70): BGC  
Ion 182.00 (181.70 to 182.70): BGC  
Ion 145.00 (144.70 to 145.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.34 min Scan# 2051

Delta R.T. -0.02 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

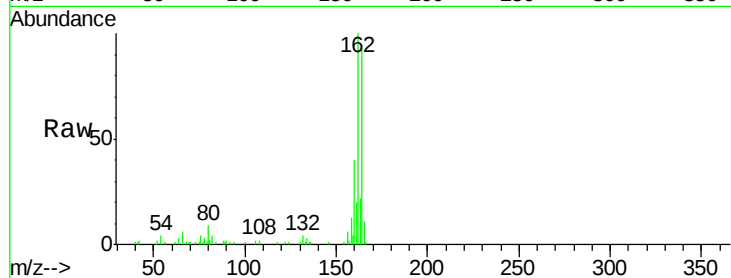
Tgt Ion:164 Resp: 46013

Ion Ratio Lower Upper

164 100

162 108.5 78.8 118.2

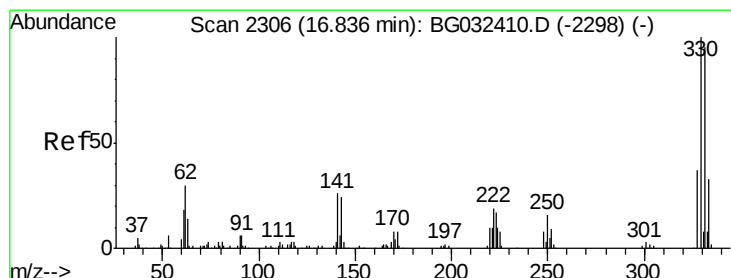
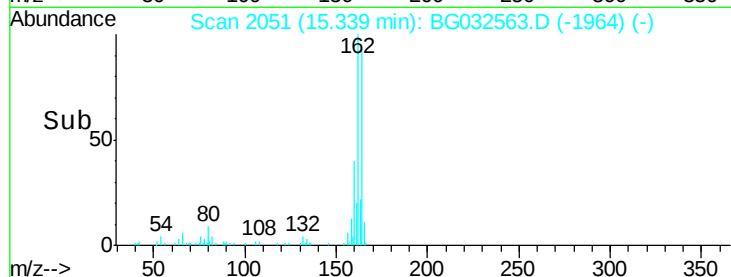
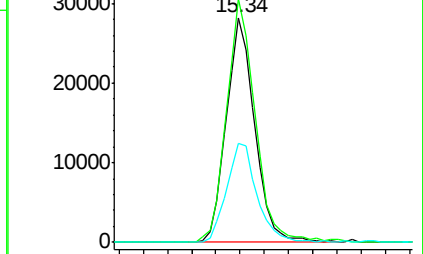
160 43.8 35.4 53.0



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: 107.553 ng

RT: 16.82 min Scan# 2303

Delta R.T. -0.02 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

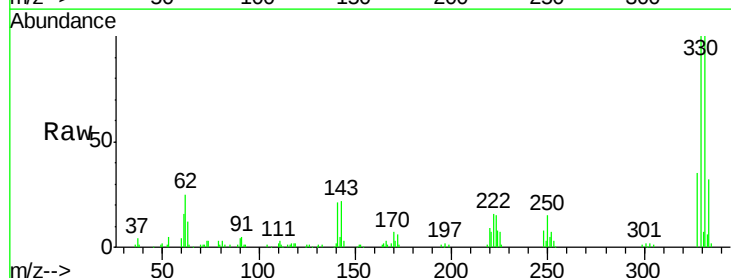
Tgt Ion:330 Resp: 94201

Ion Ratio Lower Upper

330 100

332 96.3 77.0 115.6

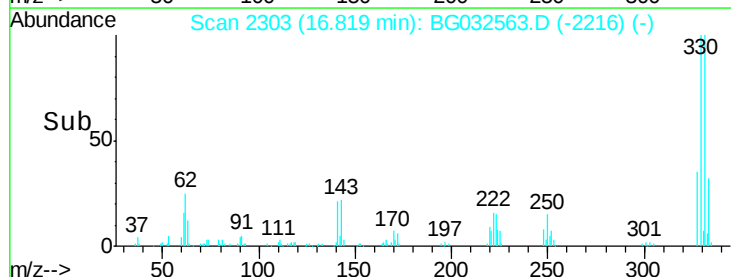
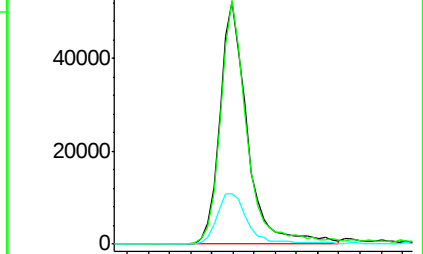
141 23.5 25.2 37.8#

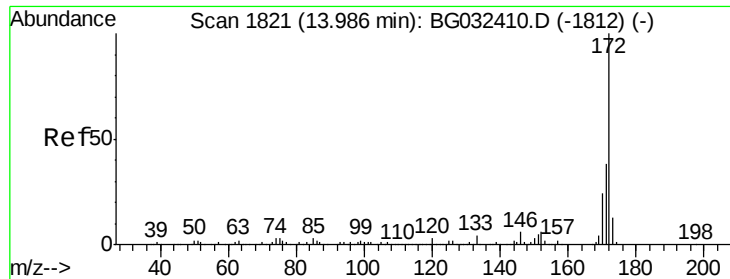


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

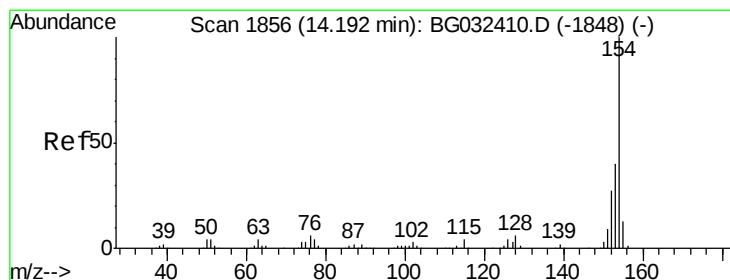
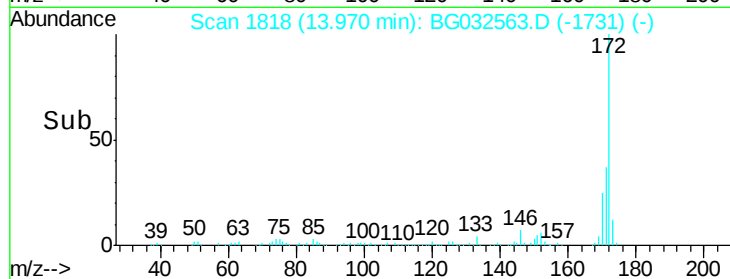
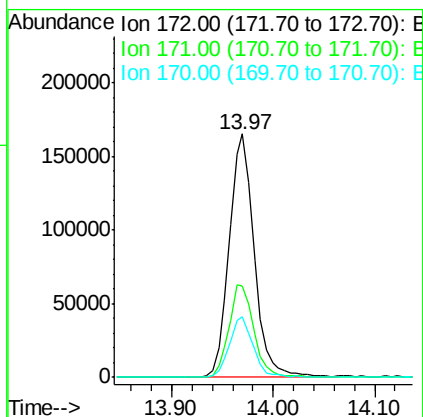
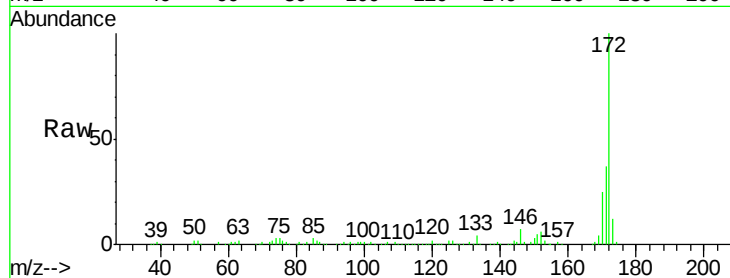




#44  
2-Fluorobiphenyl  
Concen: 73.129 ng  
RT: 13.97 min Scan# 1818  
Delta R.T. -0.02 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

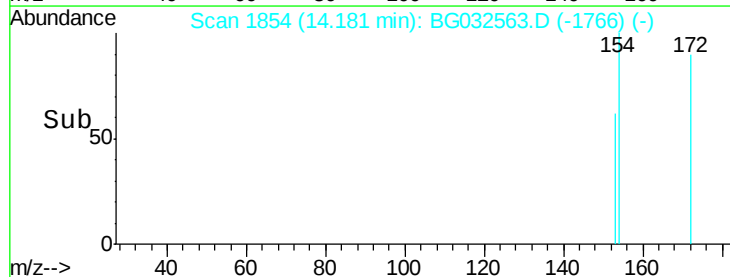
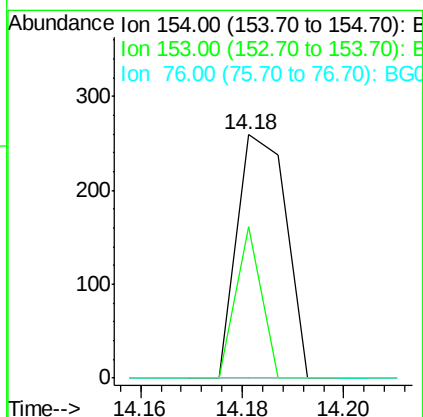
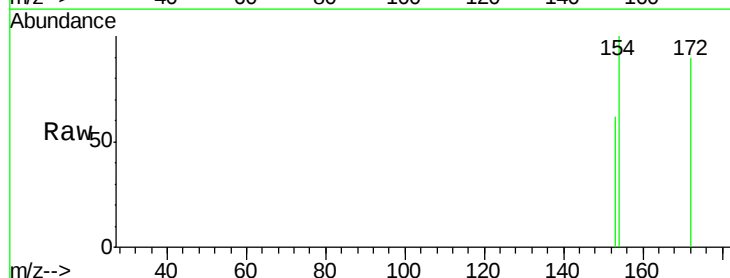
Instrument :  
BNA\_G  
ClientSampleId :  
PB106300TB

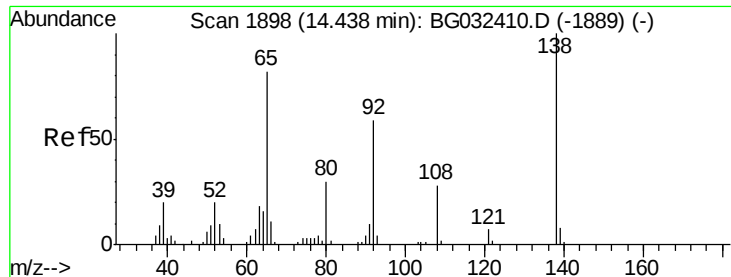
Tgt Ion:172 Resp: 283103  
Ion Ratio Lower Upper  
172 100  
171 37.3 30.0 45.0  
170 24.7 19.5 29.3



#45  
1,1'-Biphenyl  
Concen: 0.045 ng  
RT: 14.18 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

Tgt Ion:154 Resp: 175  
Ion Ratio Lower Upper  
154 100  
153 62.2 19.8 59.8#  
76 0.0 0.0 31.9

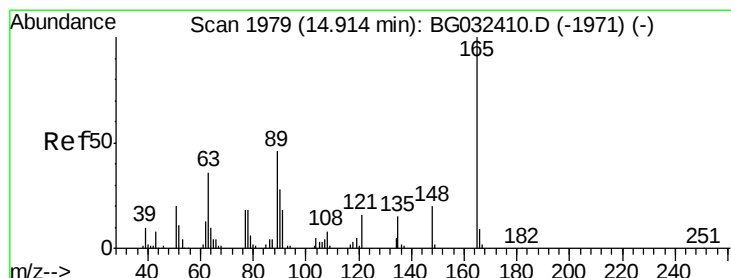
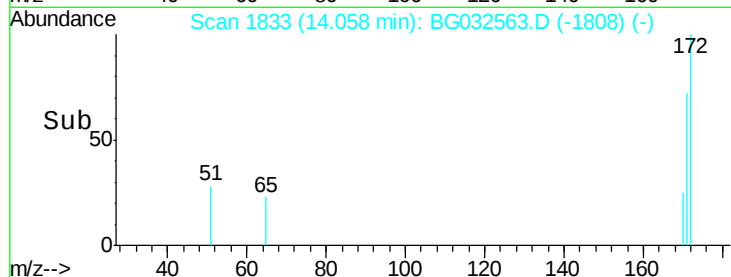
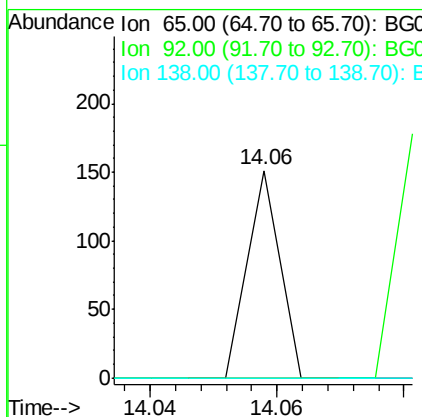
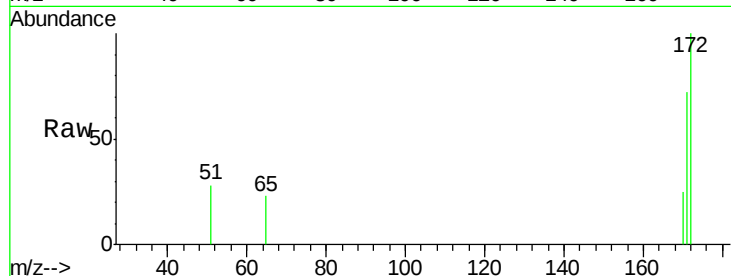




#47  
2-Nitroaniline  
Concen: 0.079 ng  
RT: 14.06 min Scan# 1833  
Delta R.T. -0.38 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

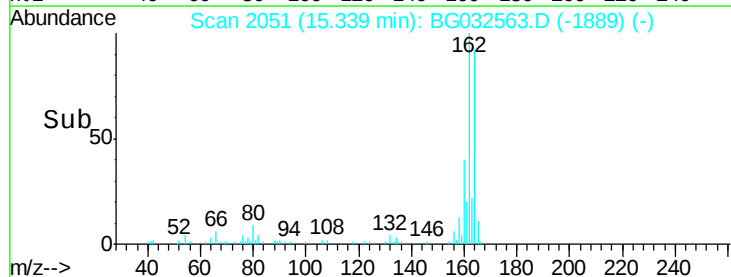
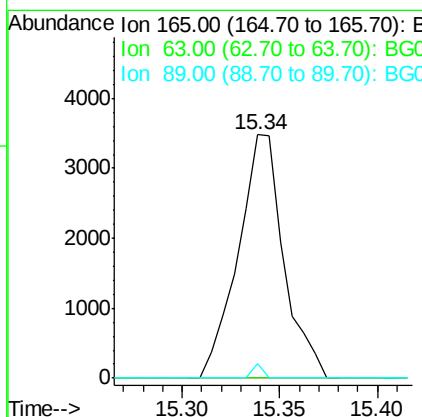
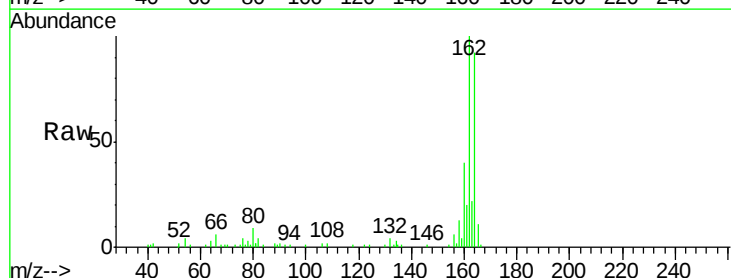
Instrument :  
BNA\_G  
ClientSampleId :  
PB106300TB

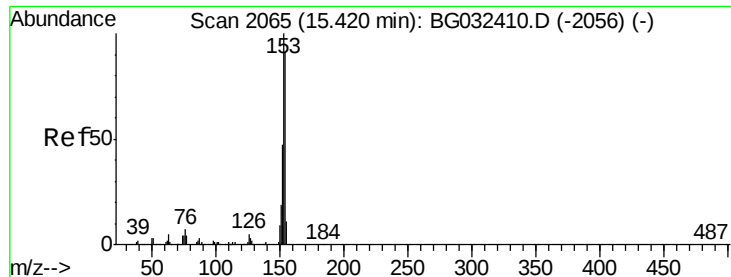
Tgt Ion: 65 Resp: 53  
Ion Ratio Lower Upper  
65 100  
92 0.0 54.6 82.0#  
138 0.0 72.9 109.3#



#50  
2,6-Dinitrotoluene  
Concen: 6.328 ng  
RT: 15.34 min Scan# 2051  
Delta R.T. 0.42 min  
Lab File: BG032563.D  
Acq: 6 Feb 2018 9:25

Tgt Ion: 165 Resp: 5635  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 5.8 49.2 73.8#





#51

Acenaphthene

Concen: 0.021 ng

RT: 15.34 min Scan# 2051

Delta R.T. -0.08 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

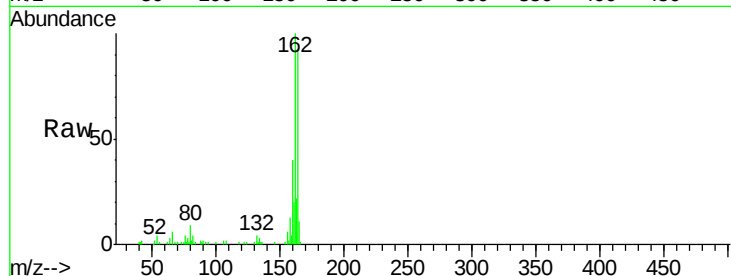
Instrument :

BNA\_G

ClientSampleId :

PB106300TB

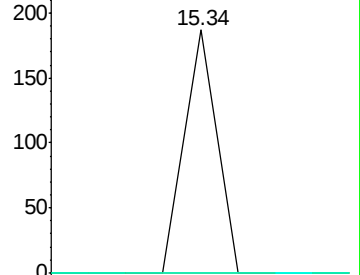
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 66     |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 0.0   | 90.4  | 135.6# |
| 152       | 0.0   | 41.6  | 62.4#  |



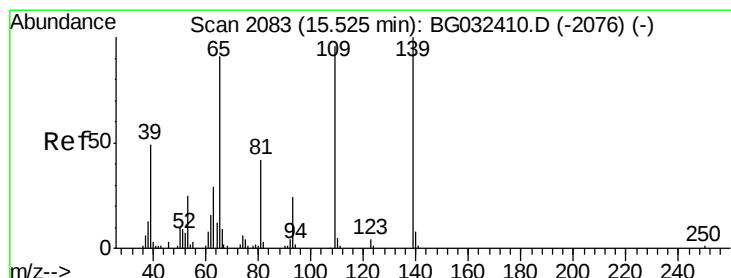
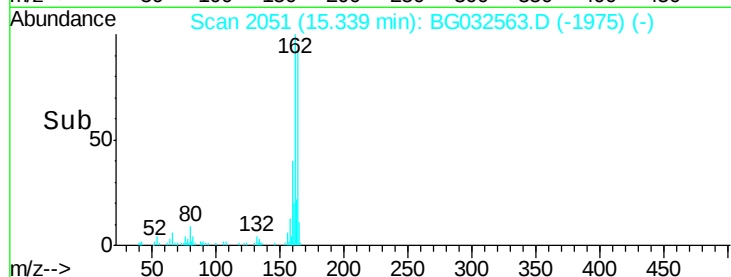
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#55

4-Nitrophenol

Concen: 0.110 ng

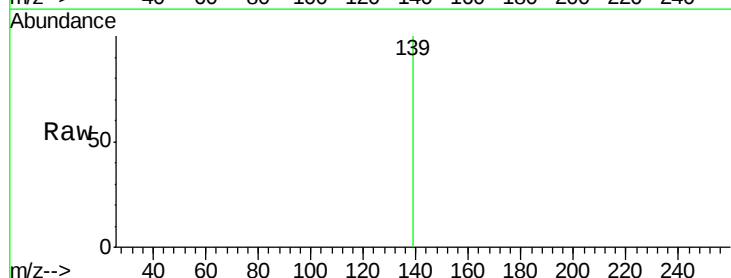
RT: 15.60 min Scan# 2096

Delta R.T. 0.08 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

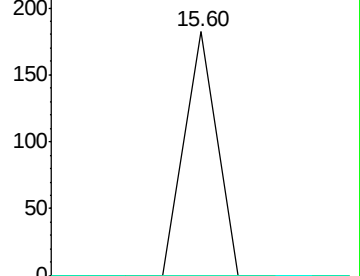
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 64     |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 0.0   | 62.2  | 102.2# |
| 65        | 0.0   | 97.2  | 137.2# |



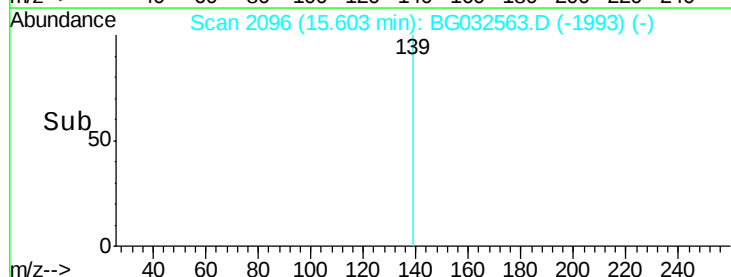
Abundance Ion 139.00 (138.70 to 139.70): E

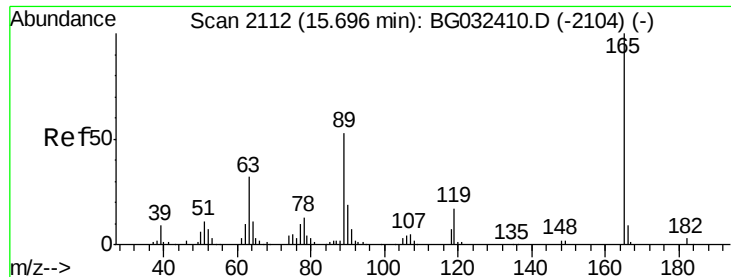
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG



Time-->





#56

2,4-Dinitrotoluene

Concen: 4.444 ng

RT: 15.34 min Scan# 2051

Delta R.T. -0.36 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

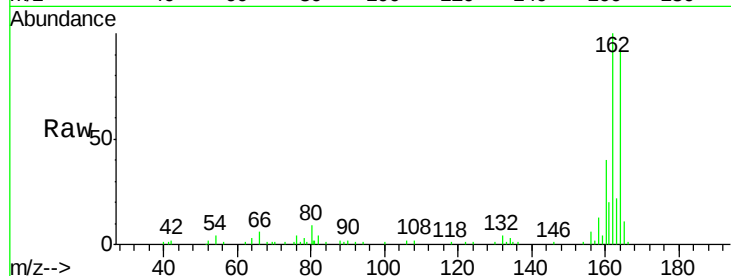
Instrument :

BNA\_G

ClientSampleId :

PB106300TB

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 5635   |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 0.0   | 42.0  | 63.0#  |
| 89        | 5.8   | 66.9  | 100.3# |
| 182       | 0.0   | 2.6   | 3.8#   |

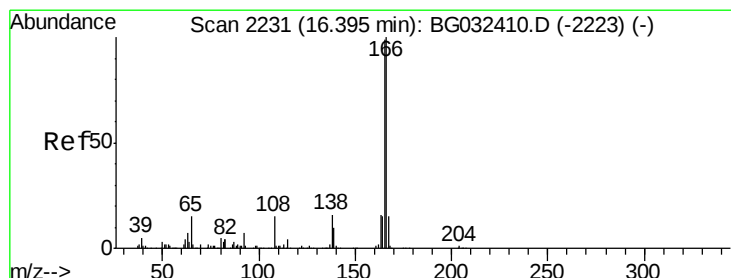
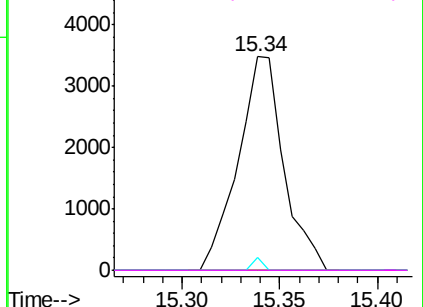
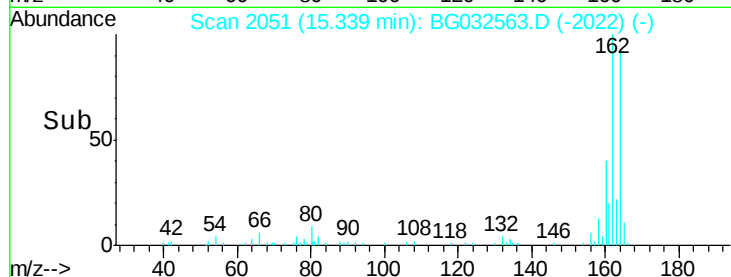


Abundance Ion 165.00 (164.70 to 165.70): E

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



#57

Fluorene

Concen: 0.435 ng

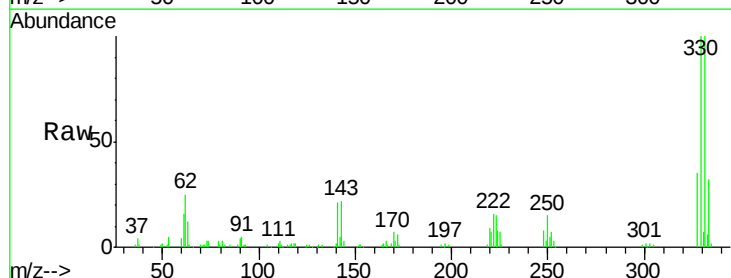
RT: 16.82 min Scan# 2303

Delta R.T. 0.42 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

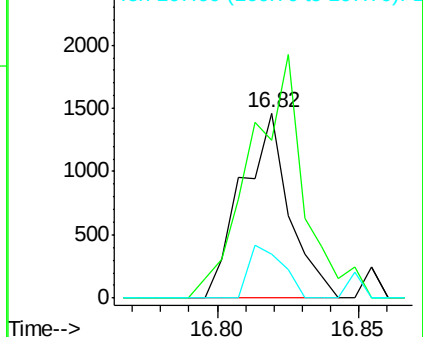
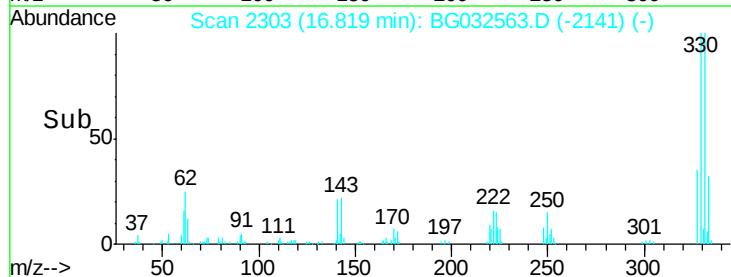
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1708  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 85.5  | 80.6  | 121.0 |
| 167       | 23.8  | 10.4  | 15.6# |

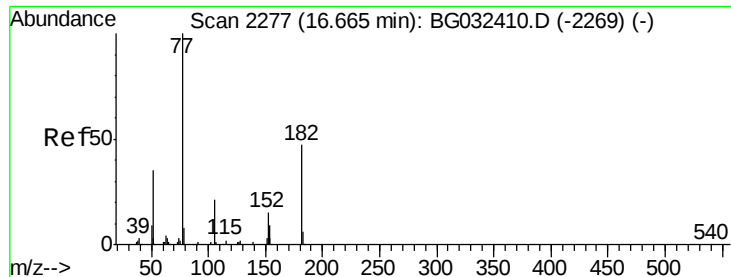


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#62

Azobenzene

Concen: 0.071 ng

RT: 16.81 min Scan# 2301

Delta R.T. 0.14 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

Tgt Ion: 77 Resp: 176

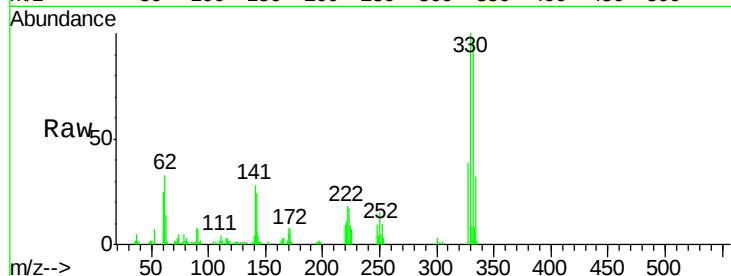
Ion Ratio Lower Upper

77 100

182 0.0 7.4 47.4#

105 0.0 0.3 40.3#

51 0.0 11.6 51.6#

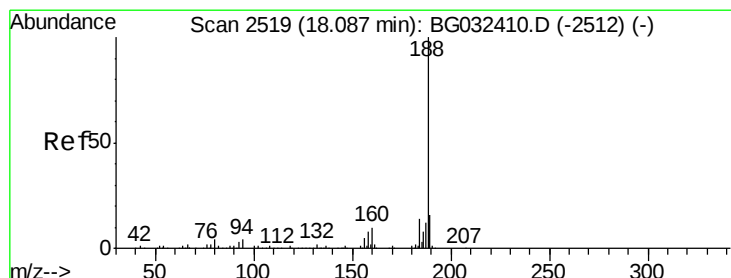
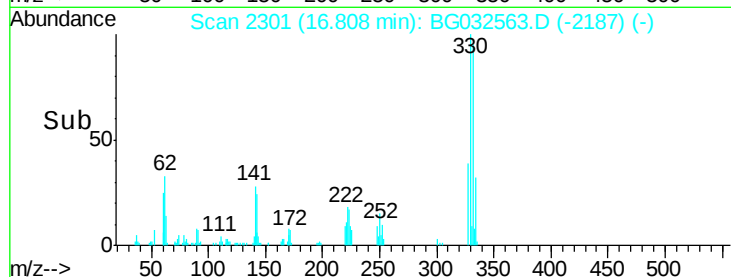
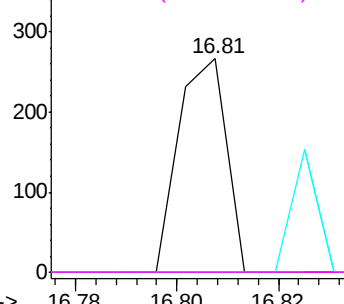


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.08 min Scan# 2517

Delta R.T. -0.01 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

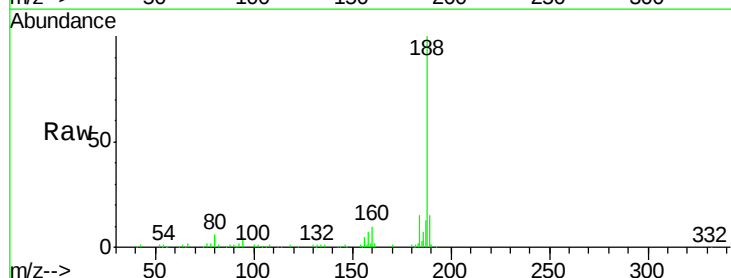
Tgt Ion: 188 Resp: 122088

Ion Ratio Lower Upper

188 100

94 4.9 6.9 10.3#

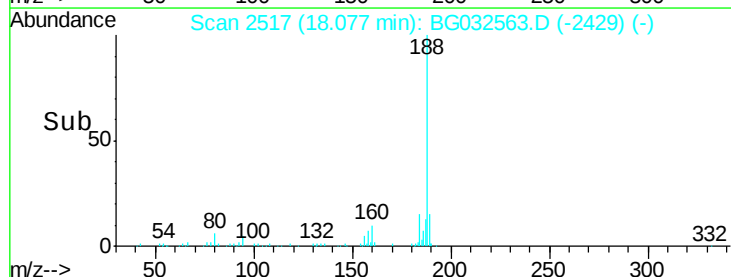
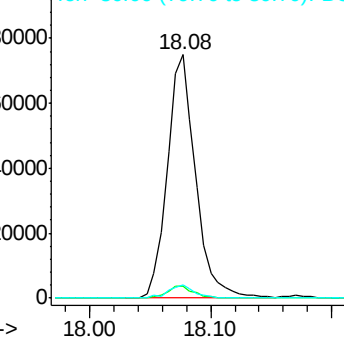
80 5.6 7.7 11.5#

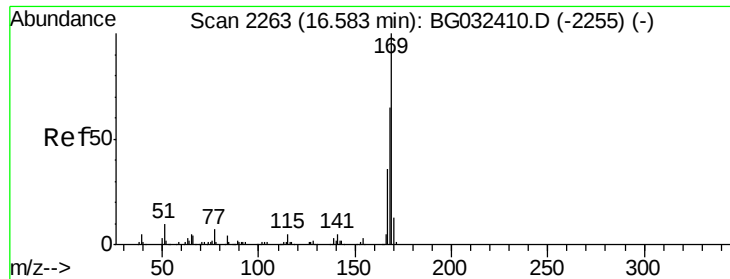


Abundance Ion 188.00 (187.70 to 188.70): BGC

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

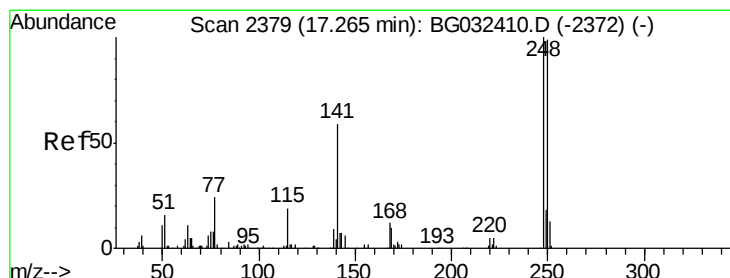
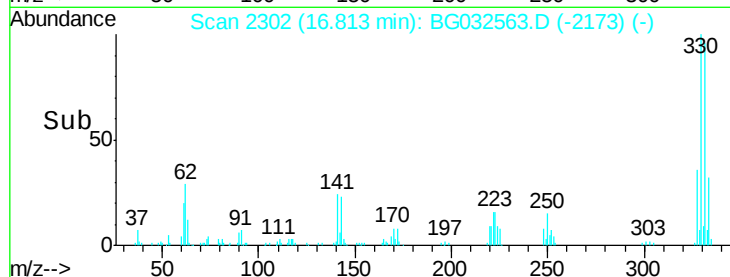
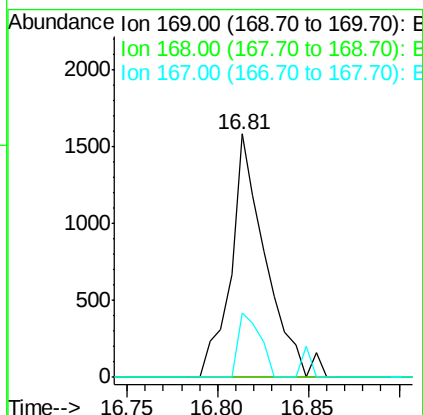
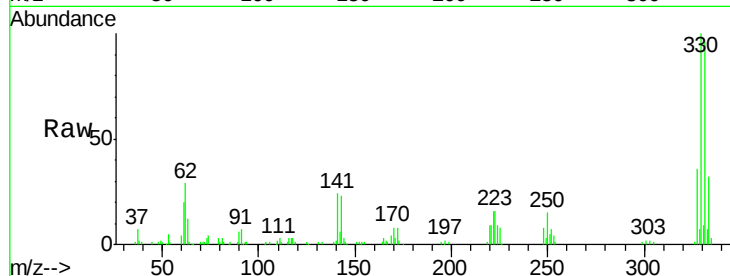




#65  
 n-Nitrosodiphenylamine  
 Concen: 0.580 ng  
 RT: 16.81 min Scan# 2302  
 Delta R.T. 0.23 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

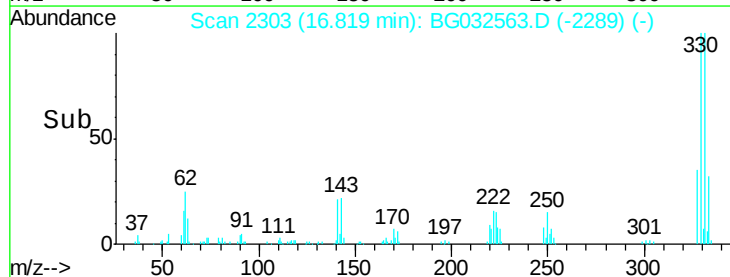
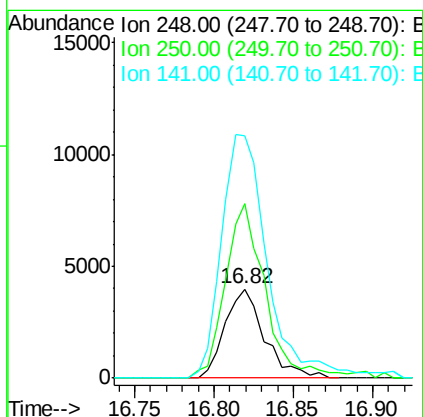
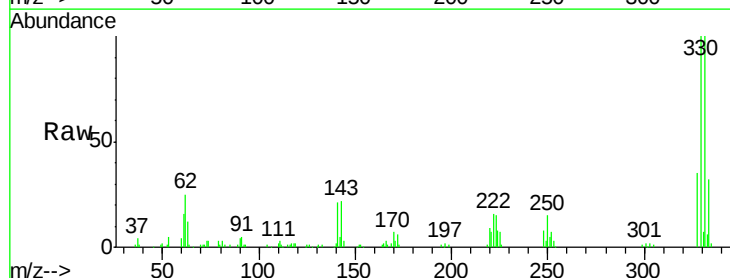
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

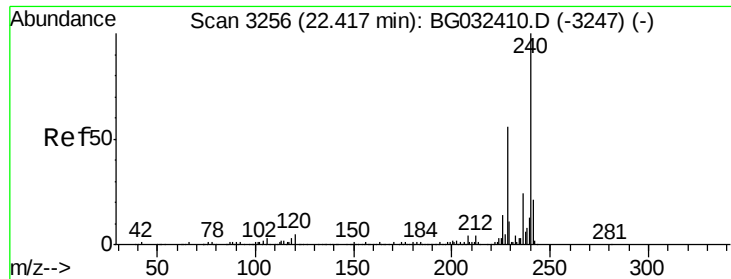
Tgt Ion:169 Resp: 2115  
 Ion Ratio Lower Upper  
 169 100  
 168 0.0 55.7 83.5#  
 167 26.5 30.1 45.1#



#66  
 4-Bromophenyl-phenylether  
 Concen: 3.808 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. -0.45 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Tgt Ion:248 Resp: 6887  
 Ion Ratio Lower Upper  
 248 100  
 250 195.1 77.1 115.7#  
 141 270.8 50.8 76.2#

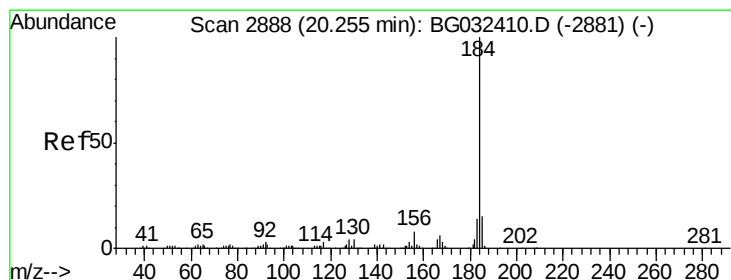
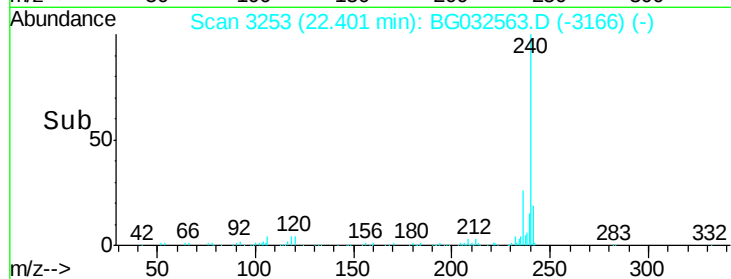
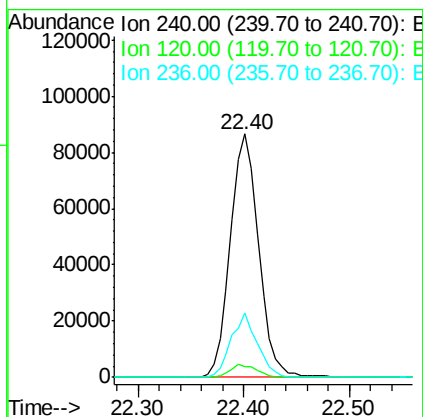
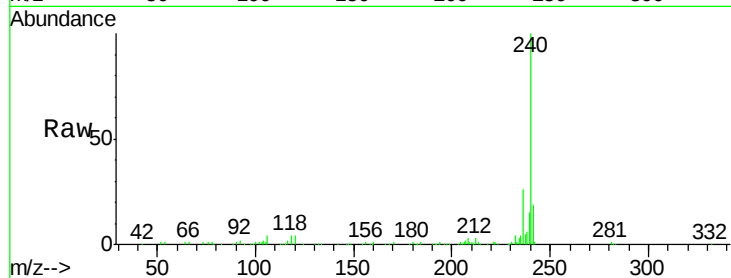




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.40 min Scan# 3253  
 Delta R.T. -0.02 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

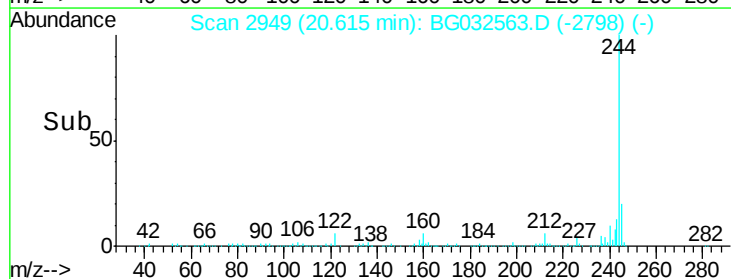
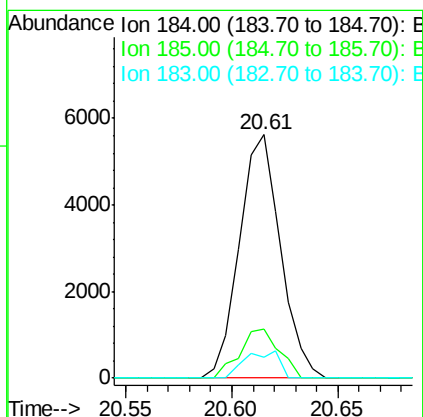
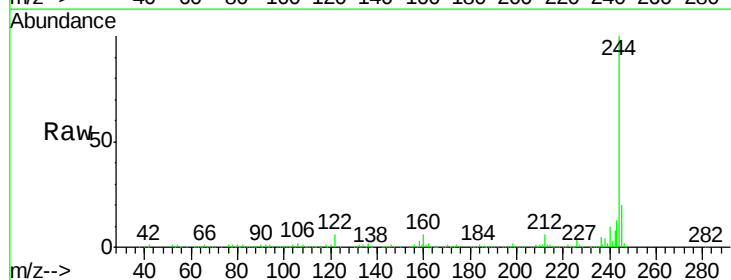
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

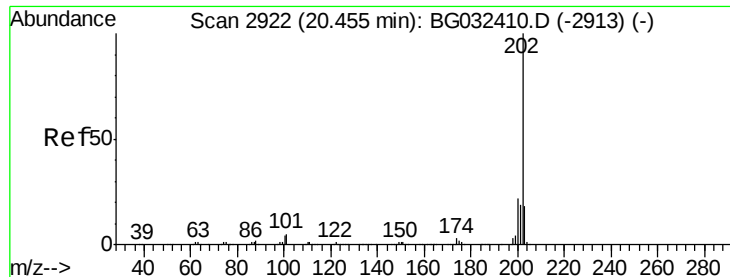
Tgt Ion:240 Resp: 160376  
 Ion Ratio Lower Upper  
 240 100  
 120 4.4 6.8 10.2#  
 236 26.2 20.9 31.3



#76  
 Benzidine  
 Concen: 2.401 ng  
 RT: 20.61 min Scan# 2949  
 Delta R.T. 0.36 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

Tgt Ion:184 Resp: 7561  
 Ion Ratio Lower Upper  
 184 100  
 185 19.9 11.1 16.7#  
 183 8.3 10.6 16.0#





#77

Pyrene

Concen: 0.183 ng

RT: 20.61 min Scan# 2948

Delta R.T. 0.15 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

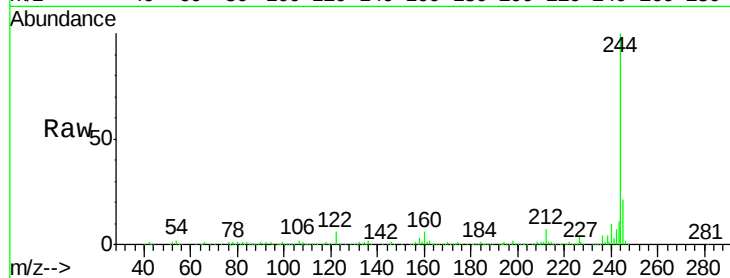
Tgt Ion:202 Resp: 1797

Ion Ratio Lower Upper

202 100

200 55.7 16.9 25.3#

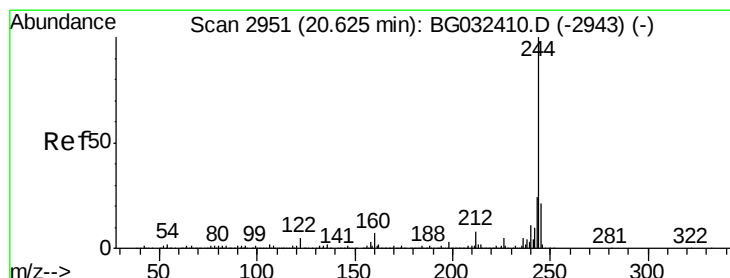
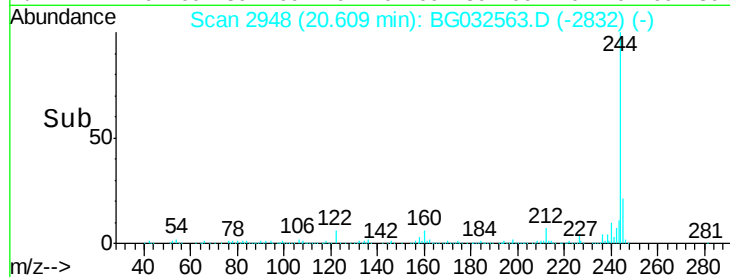
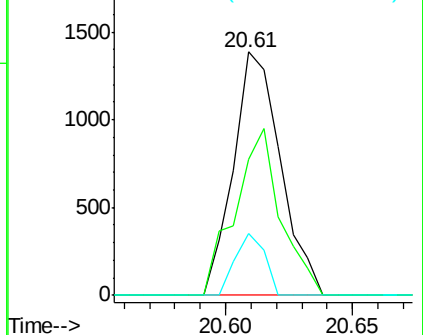
203 25.6 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 80.312 ng

RT: 20.61 min Scan# 2949

Delta R.T. -0.01 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

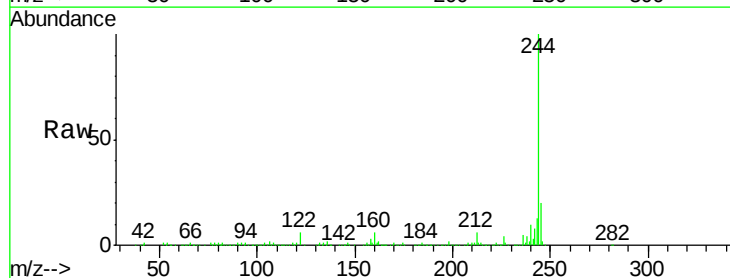
Tgt Ion:244 Resp: 601291

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

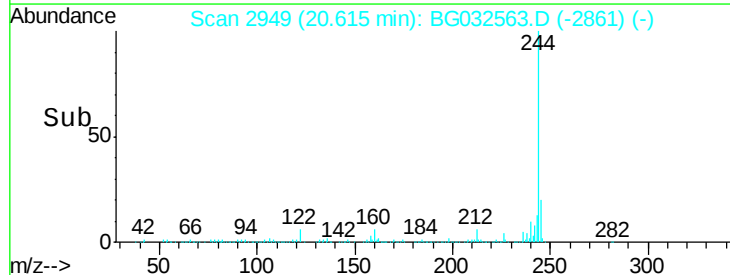
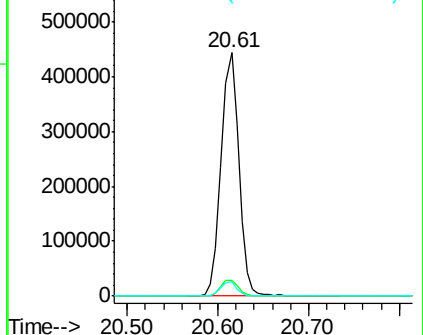
122 5.7 7.0 10.4#

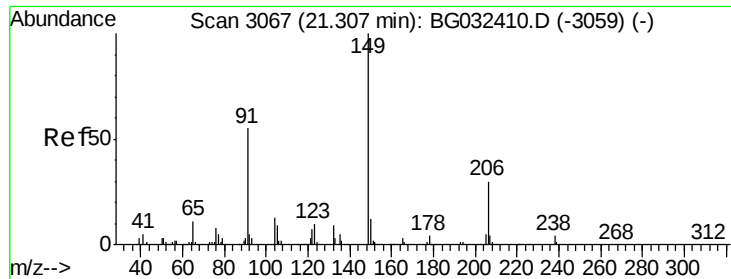


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

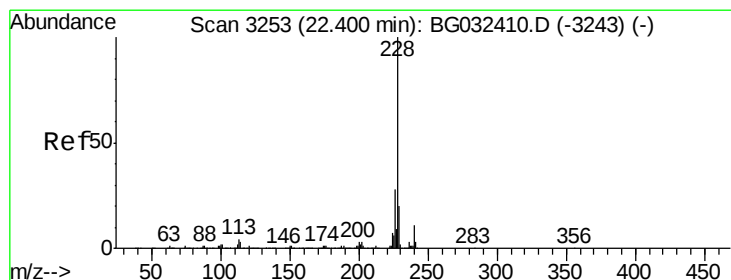
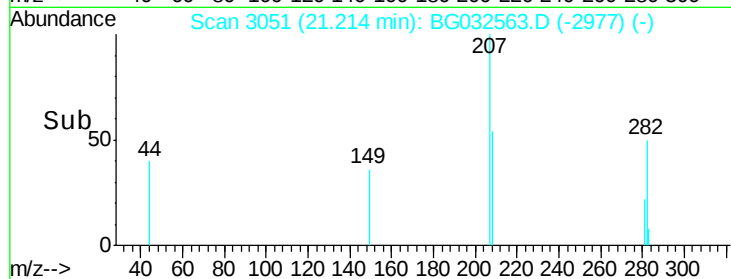
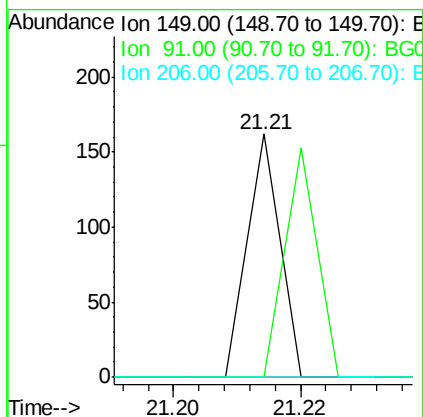
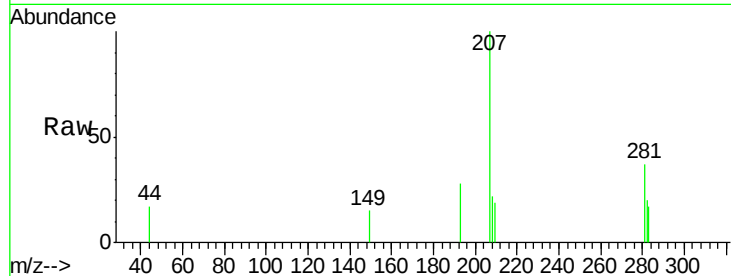




#79  
 Butylbenzylphthalate  
 Concen: 0.018 ng  
 RT: 21.21 min Scan# 3051  
 Delta R.T. -0.09 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

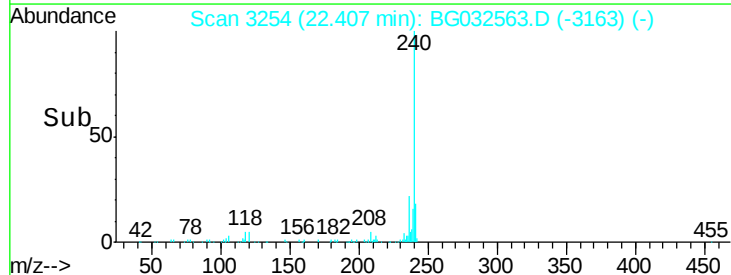
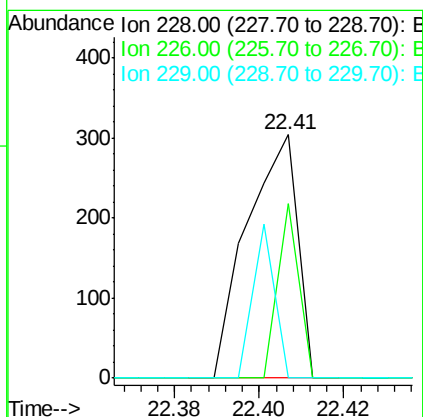
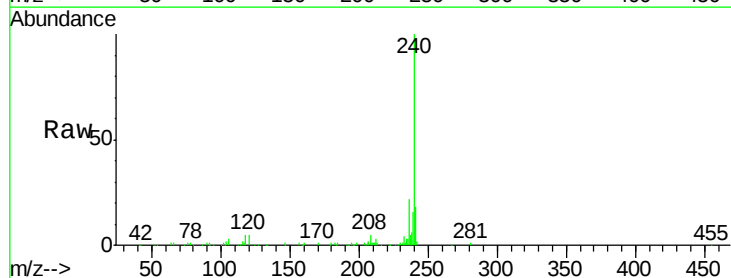
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106300TB

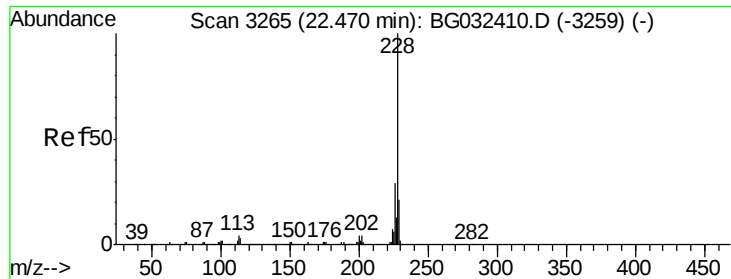
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 0.0   | 62.2  | 93.2# |
| 206     | 0.0   | 18.6  | 27.8# |



#80  
 Benzo(a)anthracene  
 Concen: 0.025 ng  
 RT: 22.41 min Scan# 3254  
 Delta R.T. 0.01 min  
 Lab File: BG032563.D  
 Acq: 6 Feb 2018 9:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 71.7  | 22.7  | 34.1# |
| 229     | 0.0   | 16.2  | 24.2# |





#82

Chrysene

Concen: 0.026 ng

RT: 22.41 min Scan# 3254

Delta R.T. -0.06 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

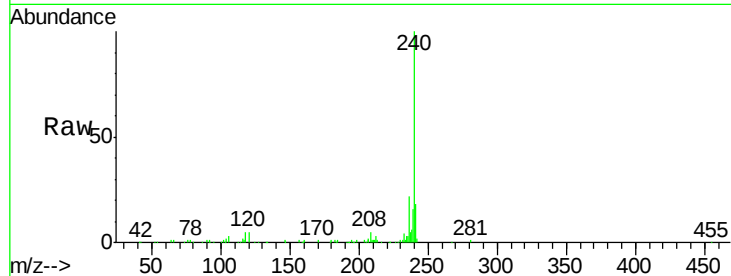
Tgt Ion:228 Resp: 252

Ion Ratio Lower Upper

228 100

226 71.7 24.9 37.3#

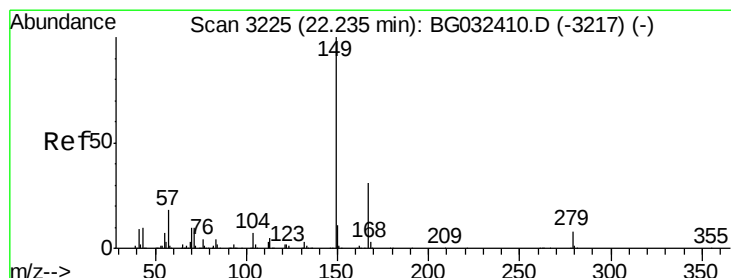
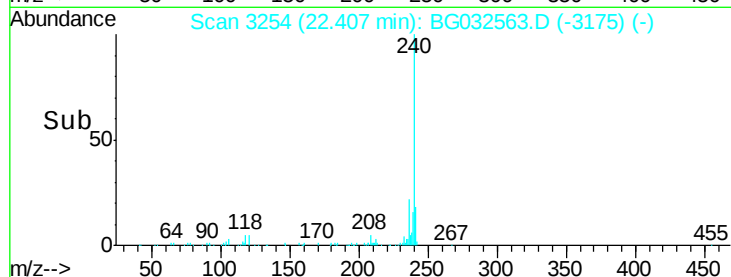
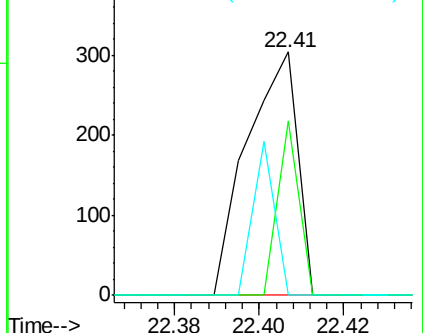
229 0.0 15.0 22.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.043 ng

RT: 22.44 min Scan# 3259

Delta R.T. 0.20 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

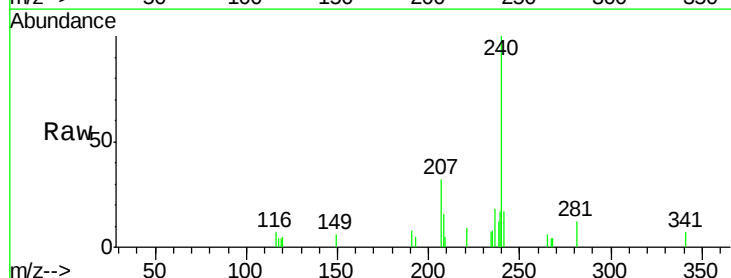
Tgt Ion:149 Resp: 190

Ion Ratio Lower Upper

149 100

167 0.0 24.3 36.5#

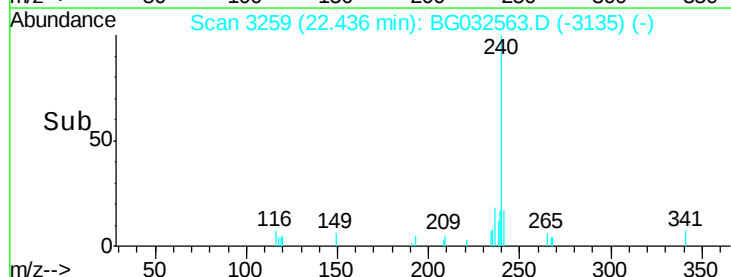
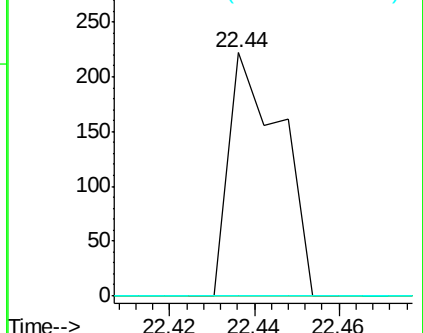
279 0.0 4.0 6.0#

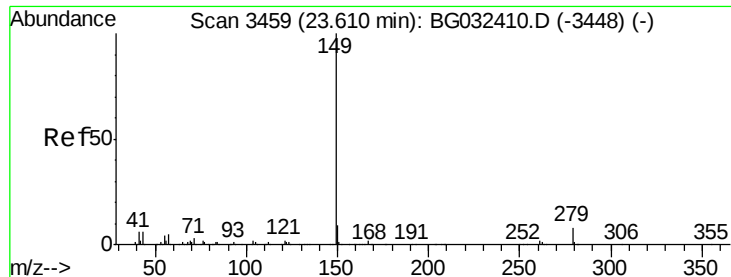


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 0.010 ng

RT: 23.60 min Scan# 3457

Delta R.T. -0.01 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB

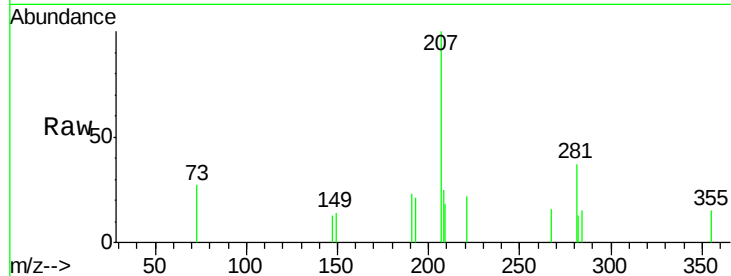
Tgt Ion:149 Resp: 67

Ion Ratio Lower Upper

149 100

167 0.0 1.4 2.0#

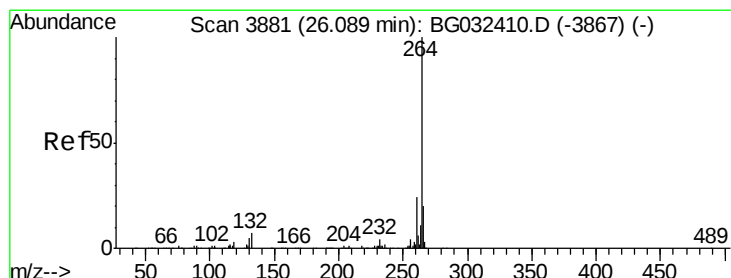
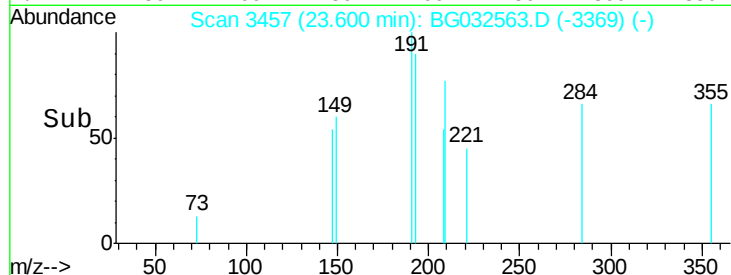
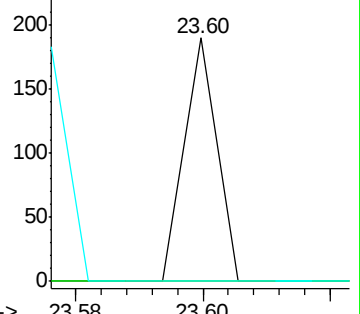
43 0.0 8.9 13.3#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.07 min Scan# 3877

Delta R.T. -0.02 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

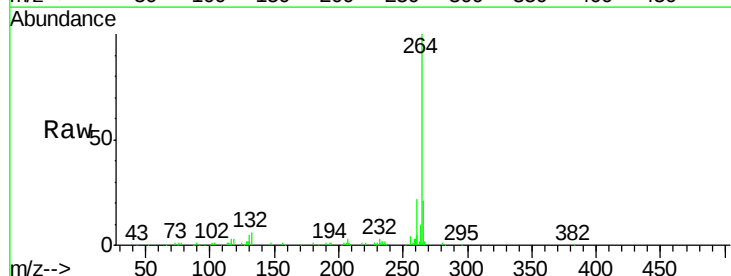
Tgt Ion:264 Resp: 180306

Ion Ratio Lower Upper

264 100

260 22.0 17.4 26.0

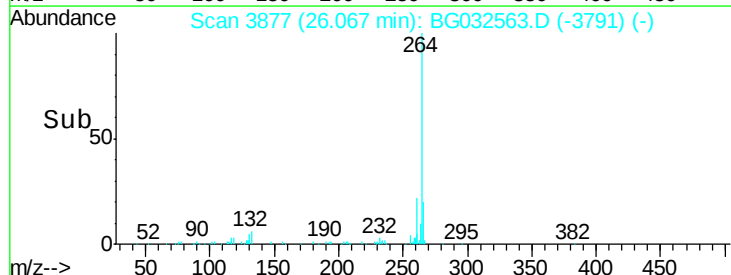
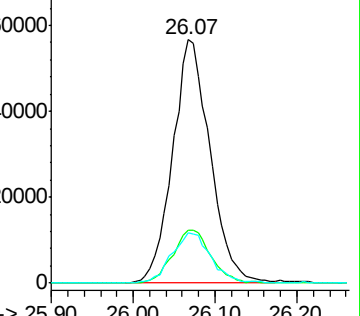
265 20.8 17.7 26.5

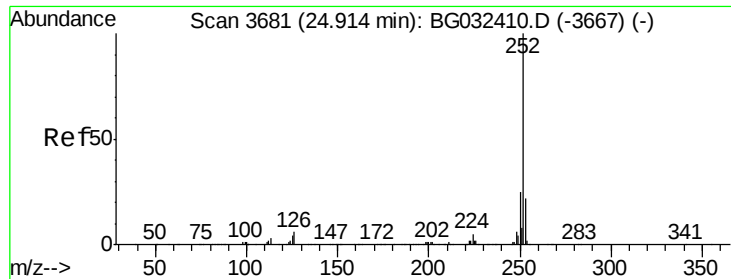


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 0.005 ng

RT: 25.33 min Scan# 3752

Delta R.T. 0.42 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

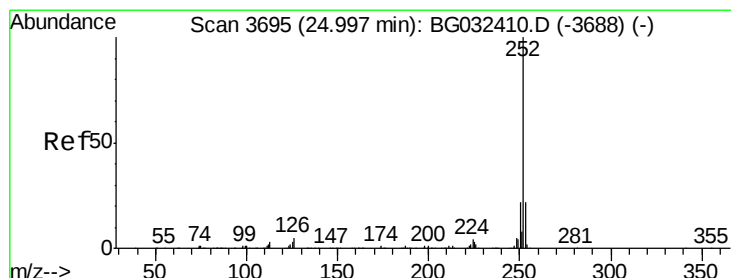
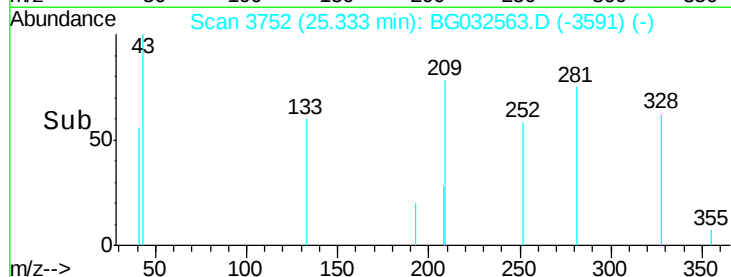
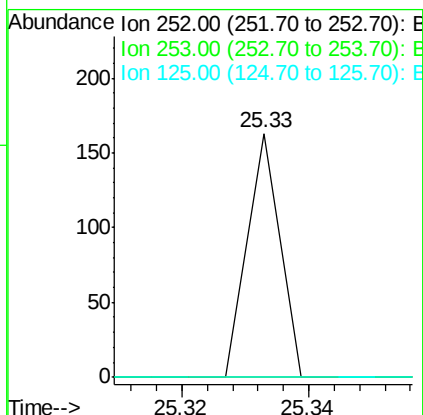
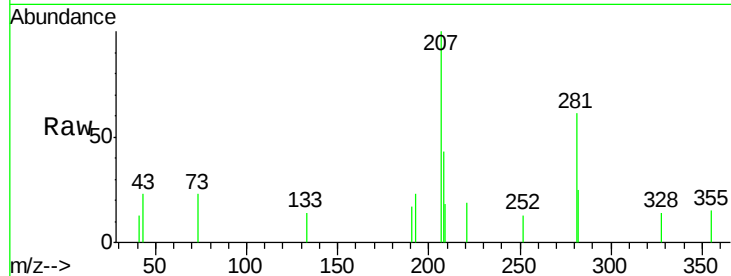
Instrument :

BNA\_G

ClientSampleId :

PB106300TB

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 57    |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 0.0   | 18.2  | 27.4# |
| 125       | 0.0   | 7.2   | 10.8# |



#88

Benzo(k)fluoranthene

Concen: 0.005 ng

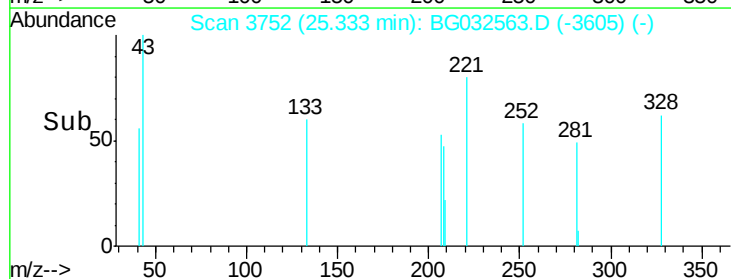
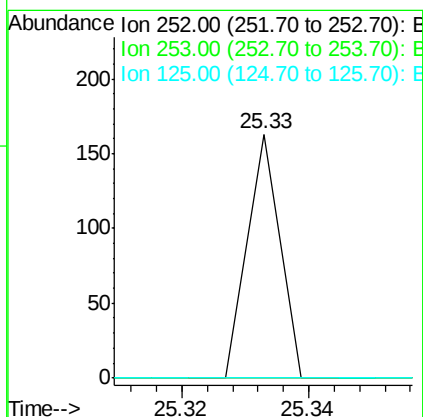
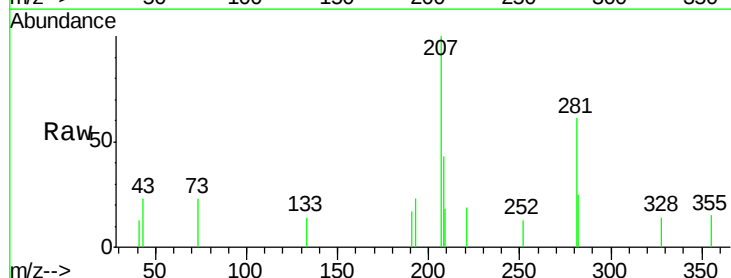
RT: 25.33 min Scan# 3752

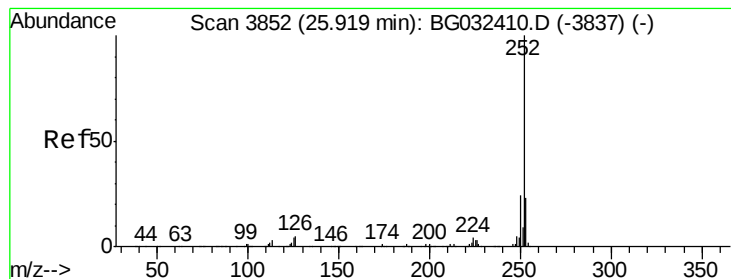
Delta R.T. 0.34 min

Lab File: BG032563.D

Acq: 6 Feb 2018 9:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 57    |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 0.0   | 17.4  | 26.2# |
| 125       | 0.0   | 6.6   | 9.8#  |





#89

Benzo(a)pyrene

Concen: 0.032 ng

RT: 26.06 min Scan# 3876

Delta R.T. 0.14 min

Lab File: BG032563.D

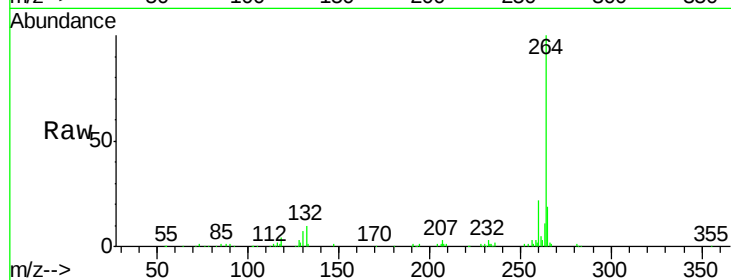
Acq: 6 Feb 2018 9:25

Instrument :

BNA\_G

ClientSampleId :

PB106300TB



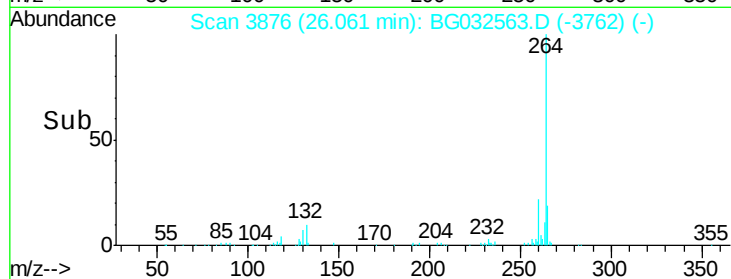
Tgt Ion: 252 Resp: 328

Ion Ratio Lower Upper

252 100

253 0.0 18.3 27.5#

125 0.0 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

