

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100618\  
 Data File : BG037214.D  
 Acq On : 6 Oct 2018 15:55  
 Operator : JU/SJ  
 Sample : J5264-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 100318-DBRI-E-U-B

Quant Time: Oct 08 04:48:05 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 10:41:23 2018  
 Response via : Initial Calibration

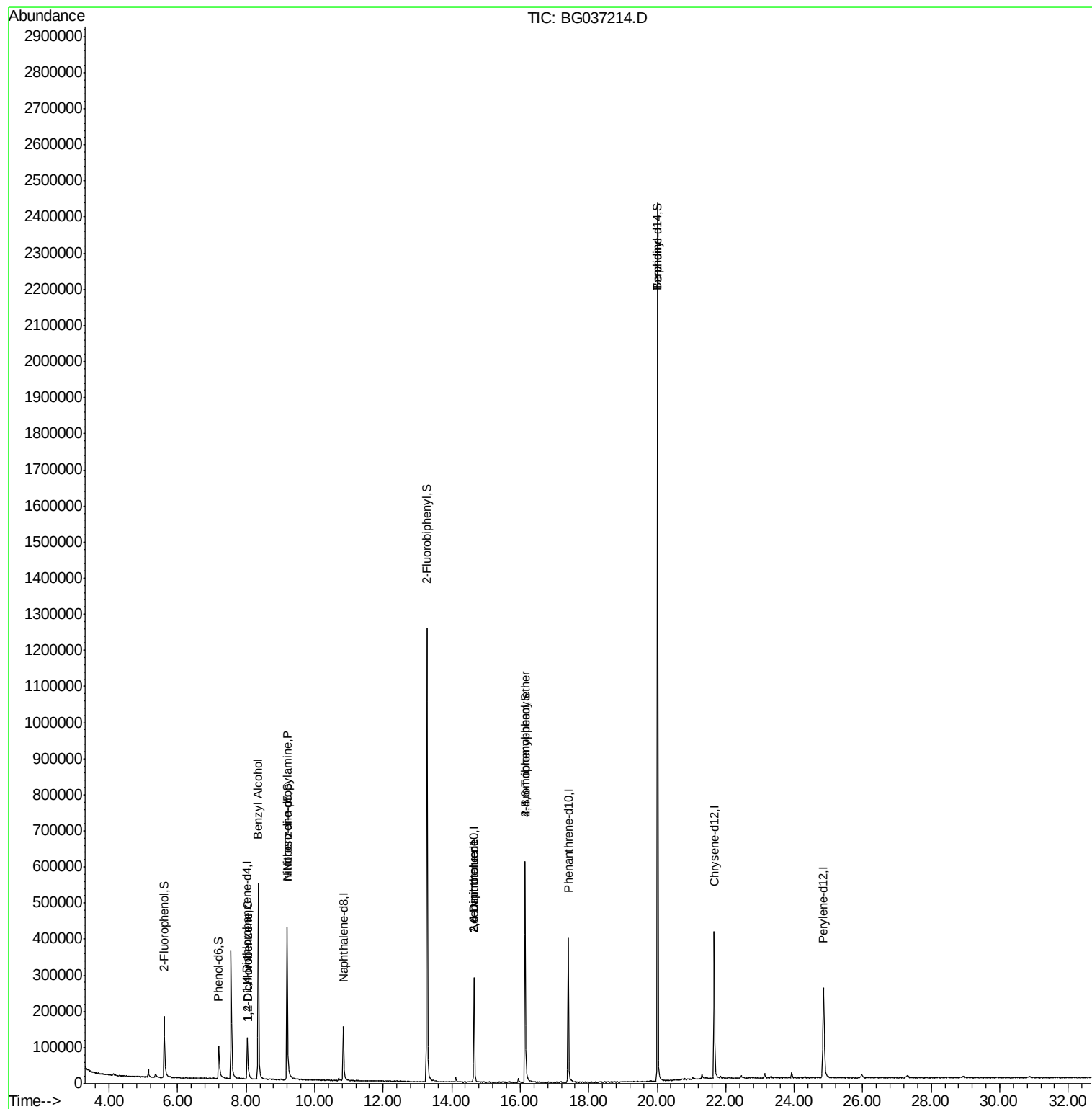
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 38931    | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8             | 10.83 | 136  | 156303   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10           | 14.65 | 164  | 108531   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 17.40 | 188  | 283755   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12               | 21.66 | 240  | 287967   | 20.00  | ng    | -0.03     |
| 86) Perylene-d12               | 24.86 | 264  | 281944   | 20.00  | ng    | -0.04     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.60  | 112  | 91717    | 45.18  | ng    | -0.02     |
| 7) Phenol-d6                   | 7.20  | 99   | 78561    | 25.01  | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 319454   | 109.45 | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 16.15 | 330  | 126899   | 97.73  | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 13.28 | 172  | 702589   | 96.42  | ng    | -0.02     |
| 78) Terphenyl-d14              | 20.01 | 244  | 1215276  | 110.97 | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 13) 1,4-Dichlorobenzene        | 8.07  | 146  | 7752     | 2.621  | ng    | Qvalue 95 |
| 14) 1,2-Dichlorobenzene        | 8.07  | 146  | 7752     | 2.705  | ng    | 96        |
| 15) Benzyl Alcohol             | 8.35  | 79   | 5133     | 2.014  | ng    | # 45      |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 41294    | 15.805 | ng    | # 73      |
| 50) 2,6-Dinitrotoluene         | 14.65 | 165  | 13423    | 7.042  | ng    | # 22      |
| 56) 2,4-Dinitrotoluene         | 14.65 | 165  | 13423    | 5.047  | ng    | # 21      |
| 66) 4-Bromophenyl-phenylether  | 16.15 | 248  | 8583     | 2.659  | ng    | # 1       |
| 76) Benzidine                  | 20.01 | 184  | 22083    | 2.537  | ng    | # 94      |

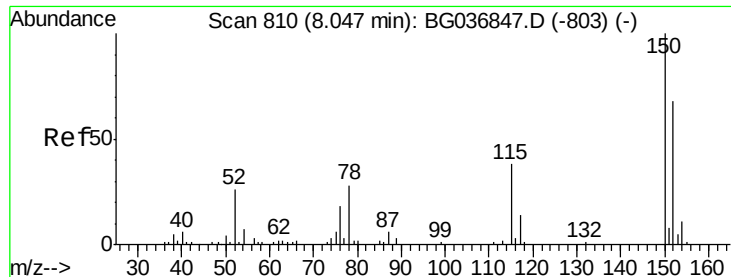
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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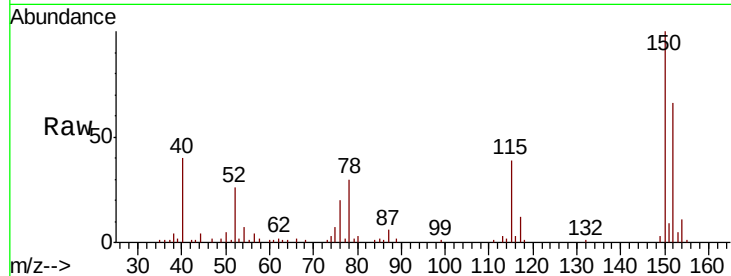


#1

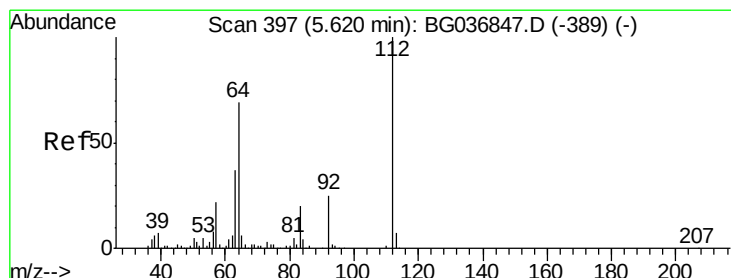
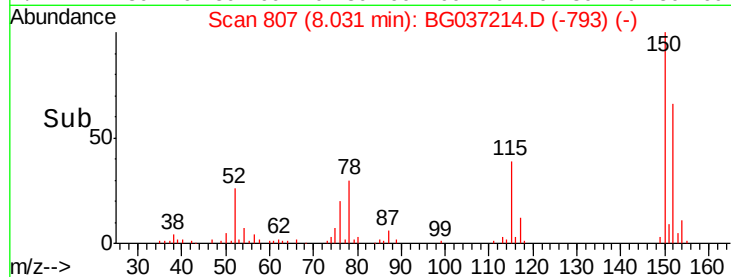
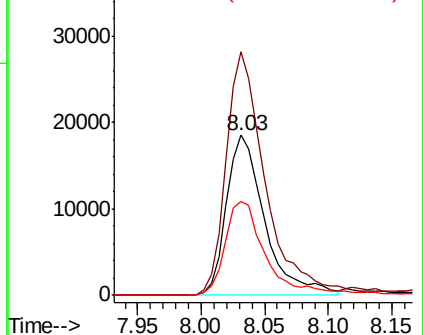
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 807  
Delta R.T. -0.02 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

Instrument :  
BNA\_G  
ClientSampleId :  
100318-DBRI-E-U-B

Tgt Ion:152 Resp: 38931  
Ion Ratio Lower Upper  
152 100  
150 151.9 119.5 179.3  
115 58.7 44.5 66.7



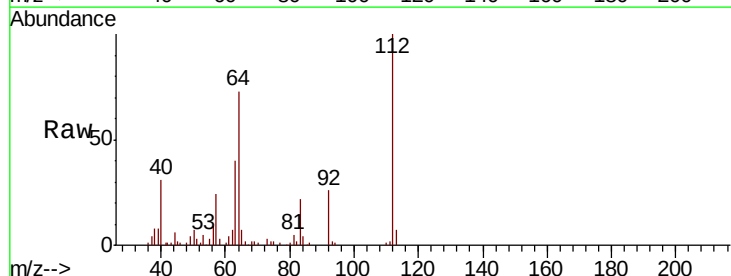
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



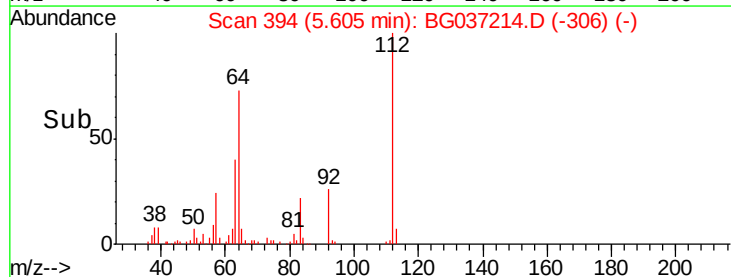
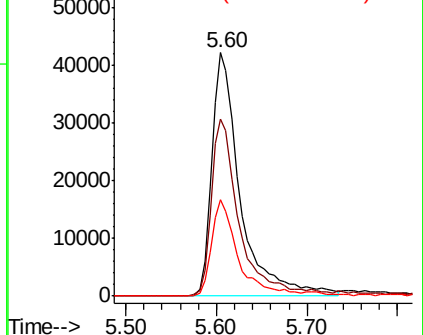
#5

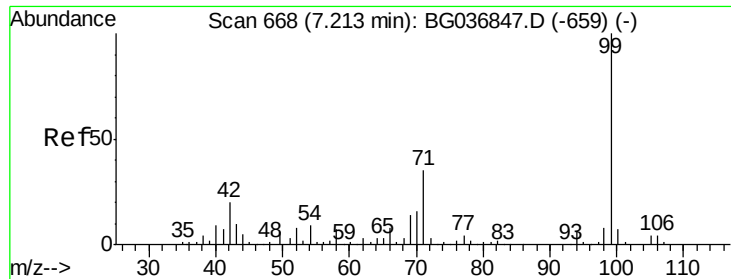
2-Fluorophenol  
Concen: 45.181 ng  
RT: 5.60 min Scan# 394  
Delta R.T. -0.02 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

Tgt Ion:112 Resp: 91717  
Ion Ratio Lower Upper  
112 100  
64 72.7 57.2 85.8  
63 39.7 30.8 46.2



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 25.013 ng

RT: 7.20 min Scan# 665

Delta R.T. -0.02 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Instrument :

BNA\_G

ClientSampleId :

100318-DBRI-E-U-B

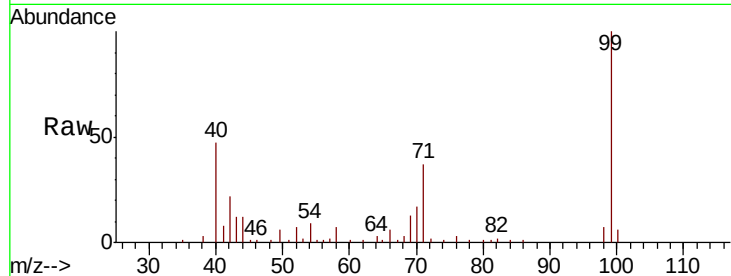
Tgt Ion: 99 Resp: 78561

Ion Ratio Lower Upper

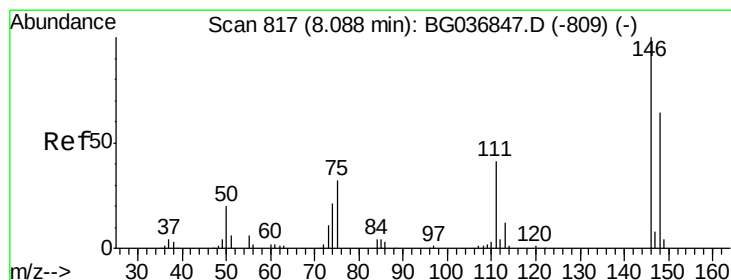
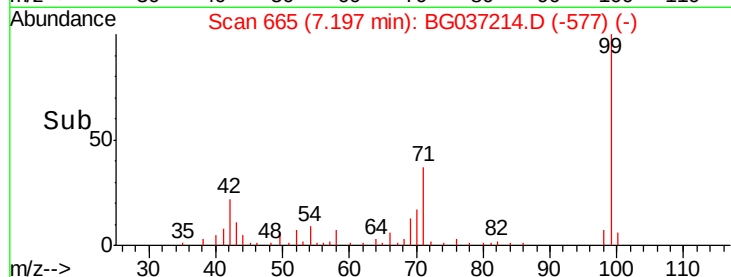
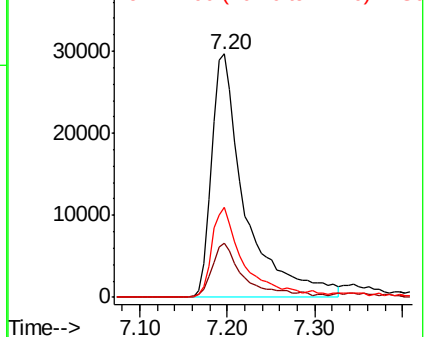
99 100

42 22.3 16.5 24.7

71 36.8 29.4 44.2



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



#13

1,4-Dichlorobenzene

Concen: 2.621 ng

RT: 8.07 min Scan# 813

Delta R.T. -0.02 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

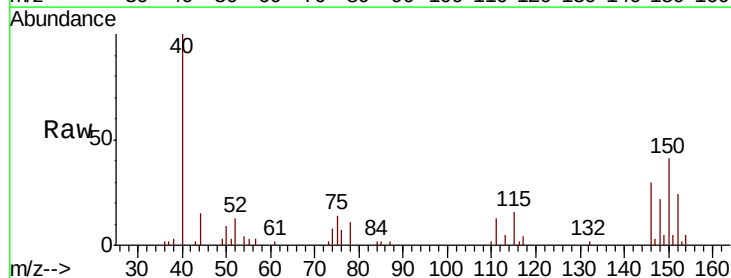
Tgt Ion: 146 Resp: 7752

Ion Ratio Lower Upper

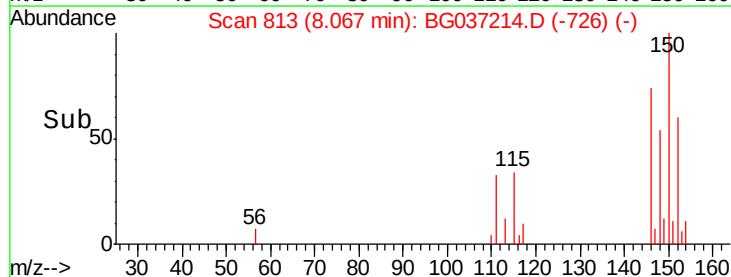
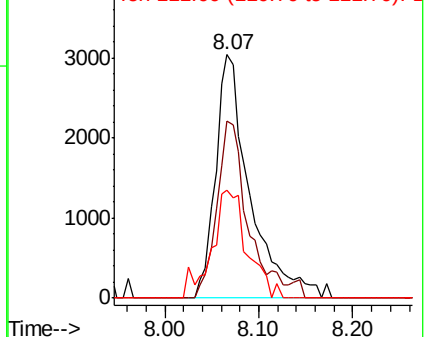
146 100

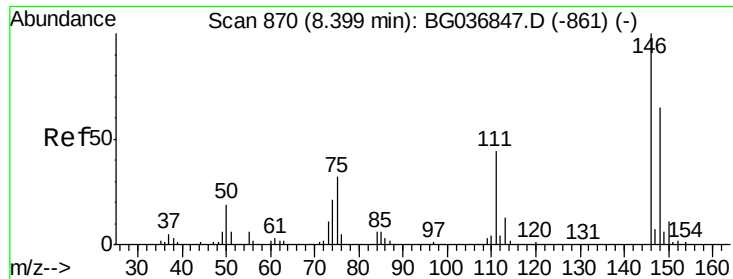
148 72.6 53.9 80.9

111 44.4 33.8 50.6



Abundance Ion 146.00 (145.70 to 146.70): E  
Ion 148.00 (147.70 to 148.70): E  
Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 2.705 ng

RT: 8.07 min Scan# 813

Delta R.T. -0.33 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Instrument :

BNA\_G

ClientSampleId :

100318-DBRI-E-U-B

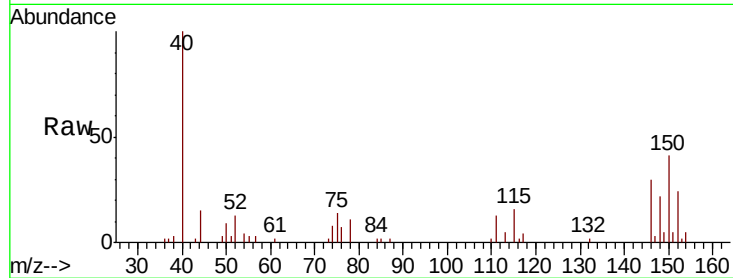
Tgt Ion:146 Resp: 7752

Ion Ratio Lower Upper

146 100

148 72.6 55.0 82.6

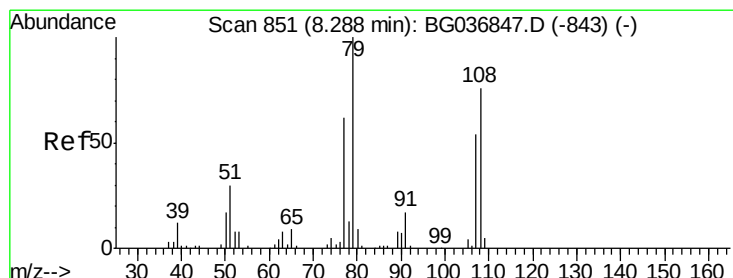
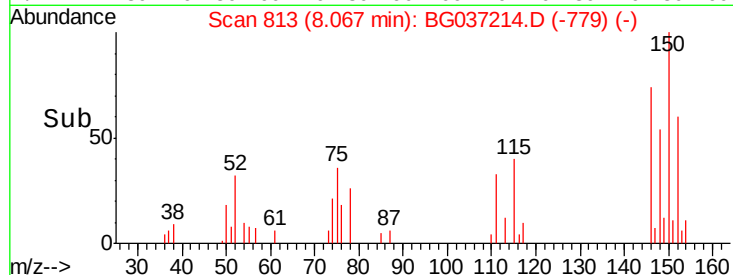
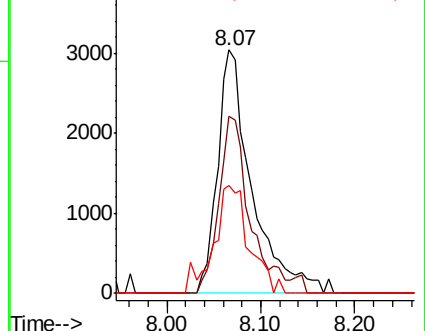
111 44.4 34.6 51.8



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15

Benzyl Alcohol

Concen: 2.014 ng

RT: 8.35 min Scan# 862

Delta R.T. 0.07 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

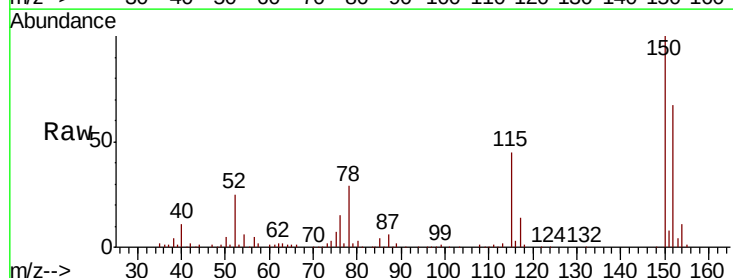
Tgt Ion: 79 Resp: 5133

Ion Ratio Lower Upper

79 100

108 39.1 55.9 83.9#

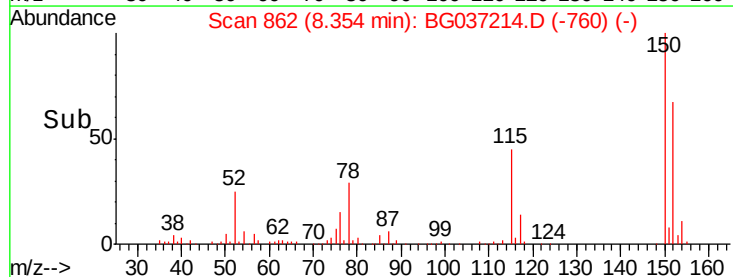
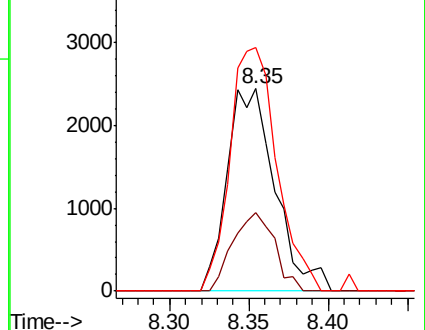
77 120.5 50.0 75.0#

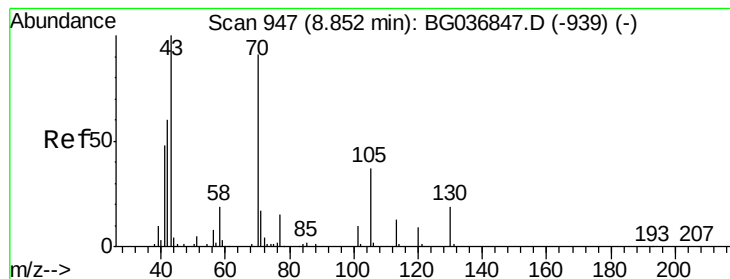


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 15.805 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.34 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Instrument :

BNA\_G

ClientSampleId :

100318-DBRI-E-U-B

Tgt Ion: 70 Resp: 41294

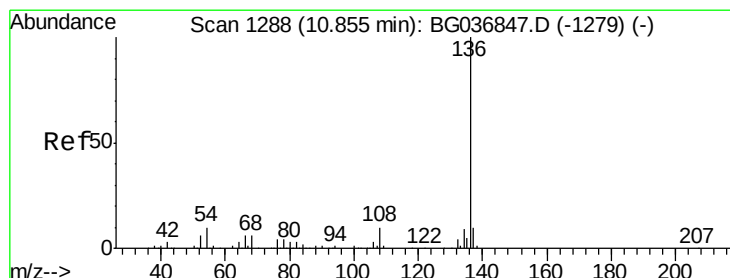
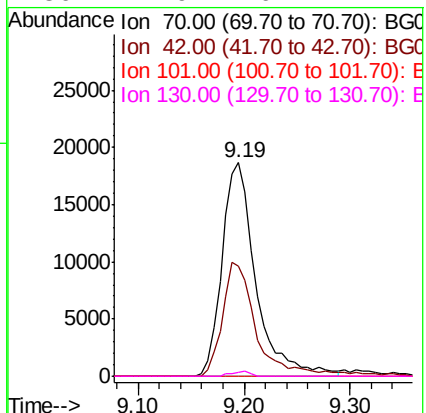
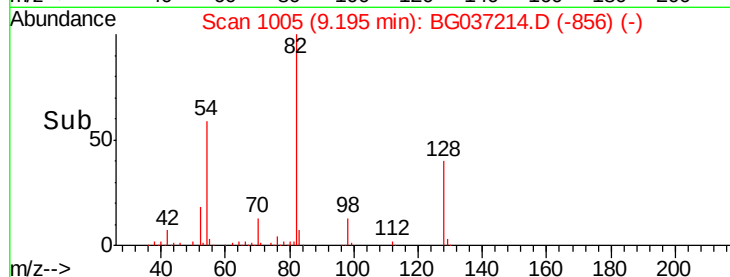
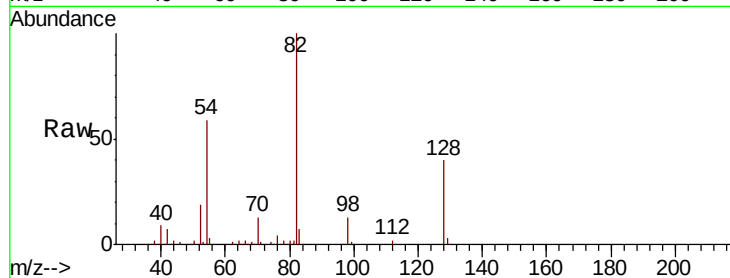
Ion Ratio Lower Upper

70 100

42 51.6 56.2 84.4#

101 0.0 7.8 11.6#

130 1.9 16.2 24.2#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.83 min Scan# 1284

Delta R.T. -0.02 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Tgt Ion: 136 Resp: 156303

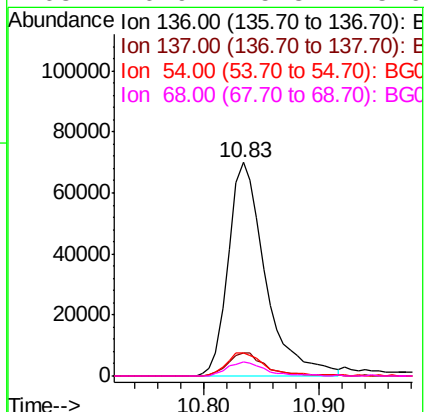
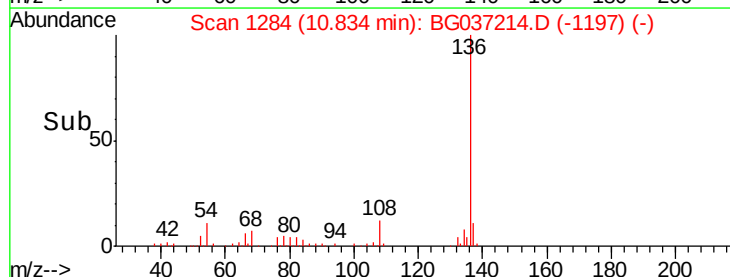
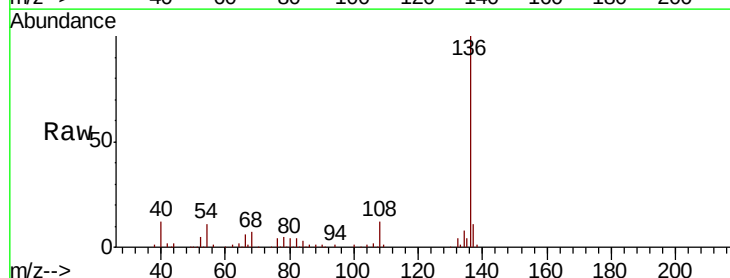
Ion Ratio Lower Upper

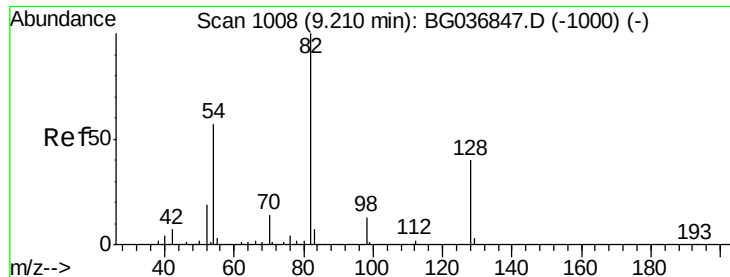
136 100

137 11.0 8.8 13.2

54 10.9 9.2 13.8

68 6.9 5.8 8.6

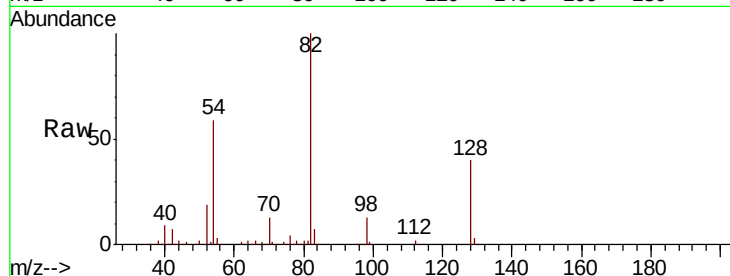




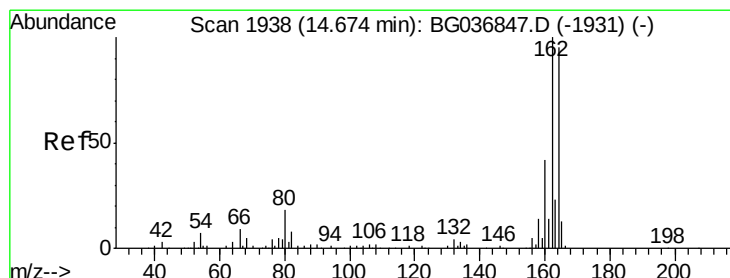
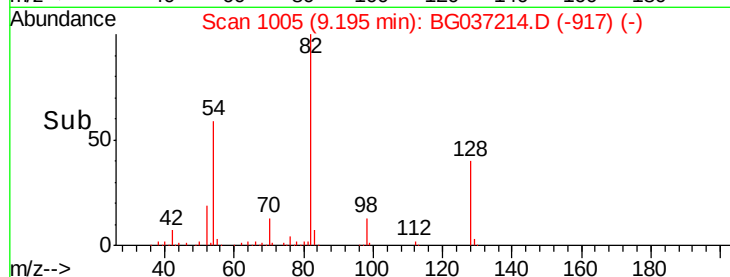
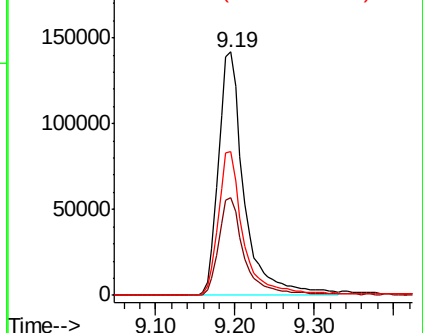
#23  
 Nitrobenzene-d5  
 Concen: 109.448 ng  
 RT: 9.19 min Scan# 1005  
 Delta R.T. -0.02 min  
 Lab File: BG037214.D  
 Acq: 6 Oct 2018 15:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 100318-DBRI-E-U-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.2  | 33.3  | 49.9  |
| 54      | 59.3  | 45.1  | 67.7  |

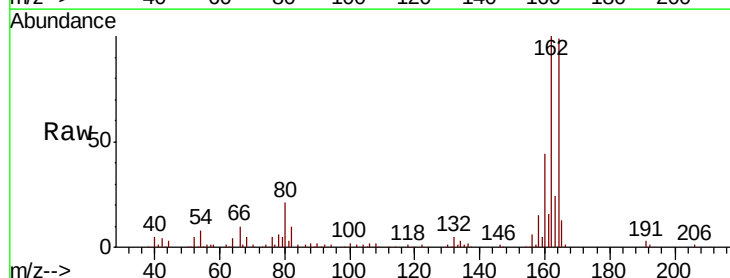


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

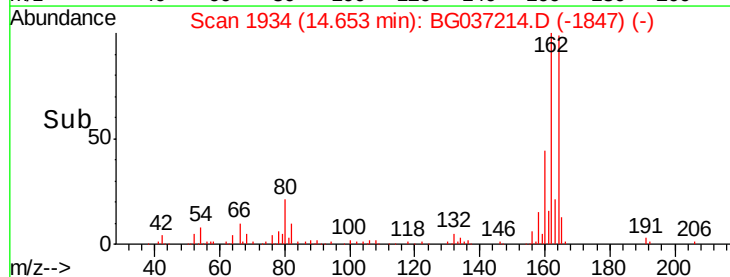
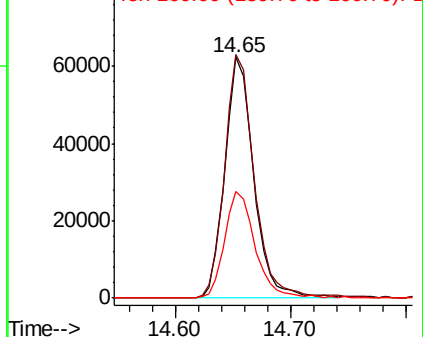


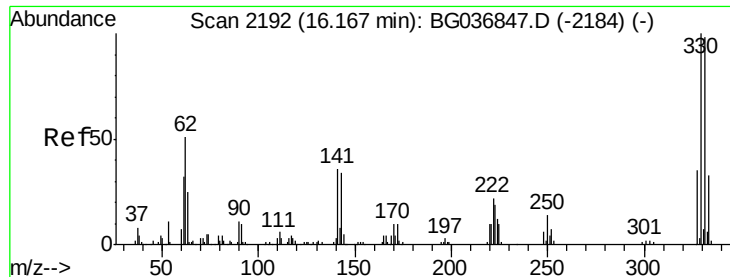
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.65 min Scan# 1934  
 Delta R.T. -0.02 min  
 Lab File: BG037214.D  
 Acq: 6 Oct 2018 15:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.1 | 80.7  | 121.1 |
| 160     | 44.2  | 35.3  | 52.9  |



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

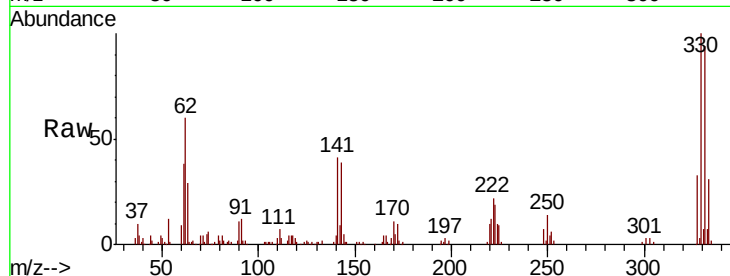




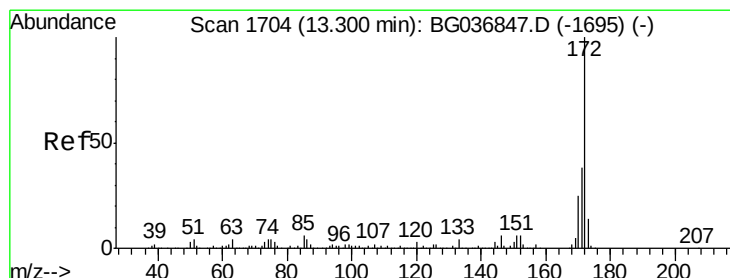
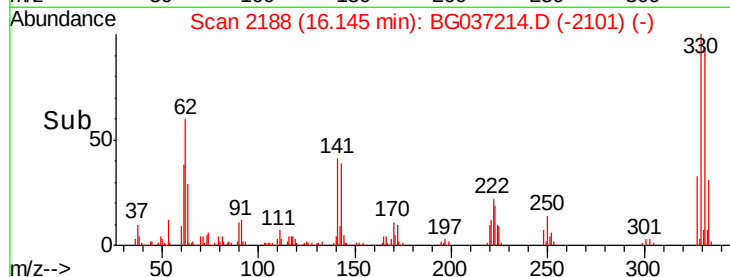
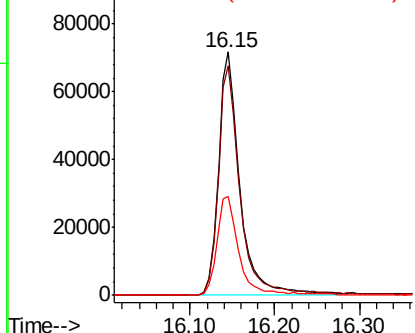
#41  
 2,4,6-Tribromophenol  
 Concen: 97.727 ng  
 RT: 16.15 min Scan# 2188  
 Delta R.T. -0.02 min  
 Lab File: BG037214.D  
 Acq: 6 Oct 2018 15:55

Instrument :  
 BNA\_G  
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 100318-DBRI-E-U-B

Tgt Ion:330 Resp: 126899  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 75.4 113.2  
 141 42.6 30.7 46.1

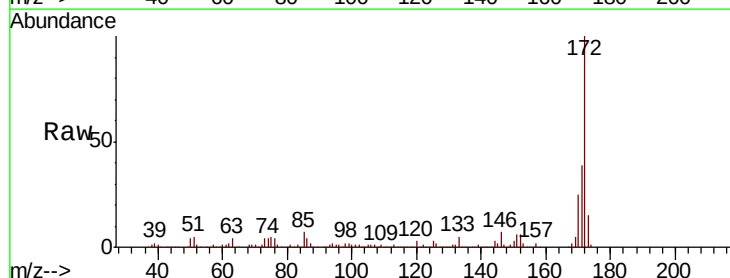


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

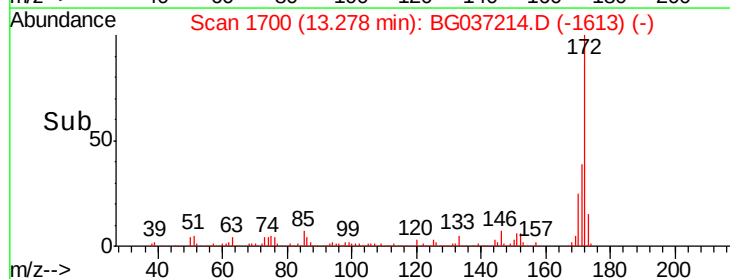
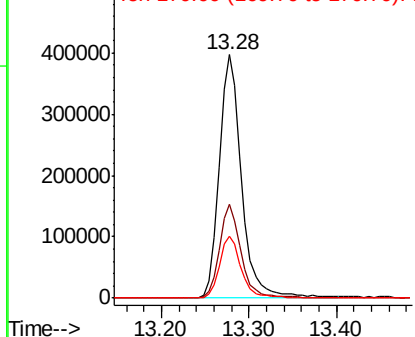


#44  
 2-Fluorobiphenyl  
 Concen: 96.418 ng  
 RT: 13.28 min Scan# 1700  
 Delta R.T. -0.02 min  
 Lab File: BG037214.D  
 Acq: 6 Oct 2018 15:55

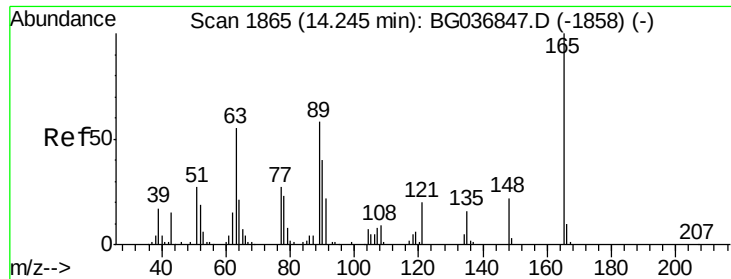
Tgt Ion:172 Resp: 702589  
 Ion Ratio Lower Upper  
 172 100  
 171 38.8 31.3 46.9  
 170 25.4 21.0 31.6



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



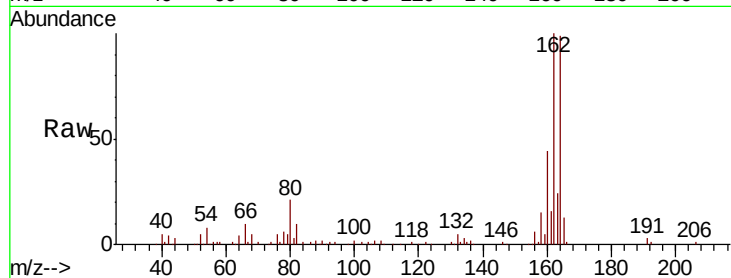




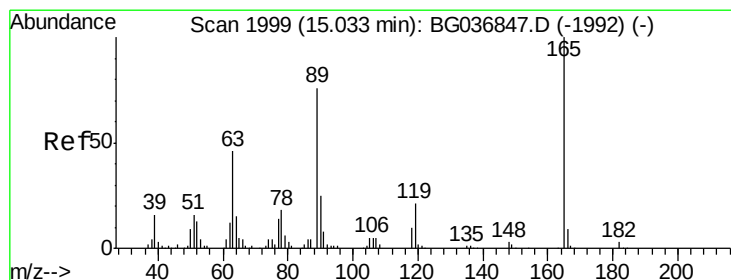
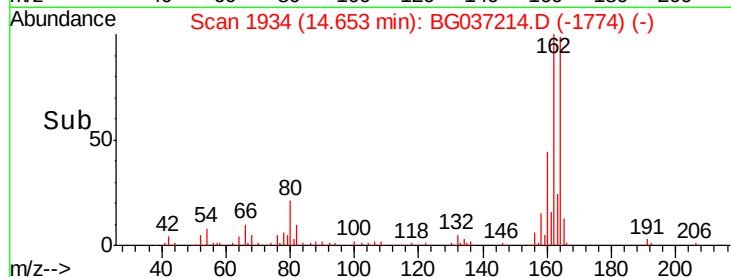
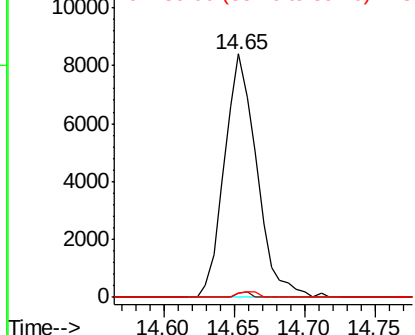
#50  
2,6-Dinitrotoluene  
Concen: 7.042 ng  
RT: 14.65 min Scan# 1934  
Delta R.T. 0.41 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

Instrument :  
BNA\_G  
ClientSampleId :  
100318-DBRI-E-U-B

Tgt Ion:165 Resp: 13423  
Ion Ratio Lower Upper  
165 100  
63 2.0 50.1 75.1#  
89 1.9 47.8 71.6#

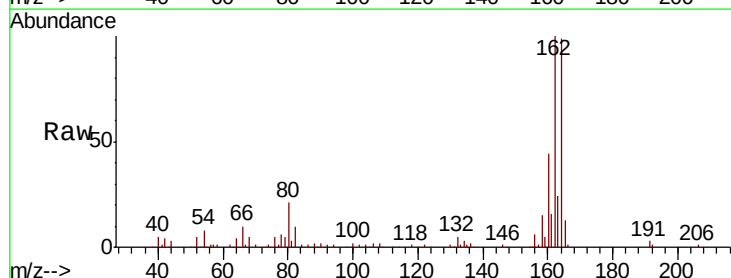


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

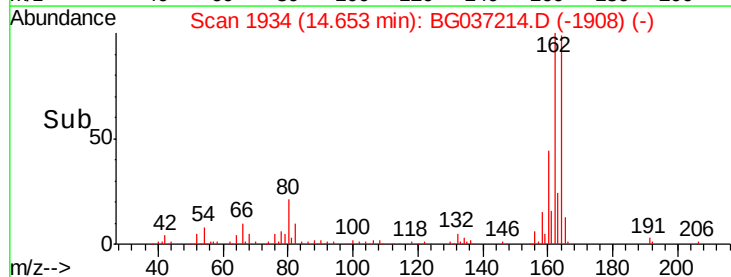
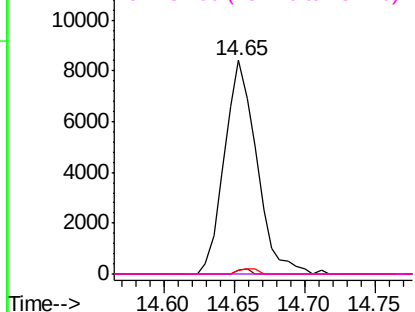


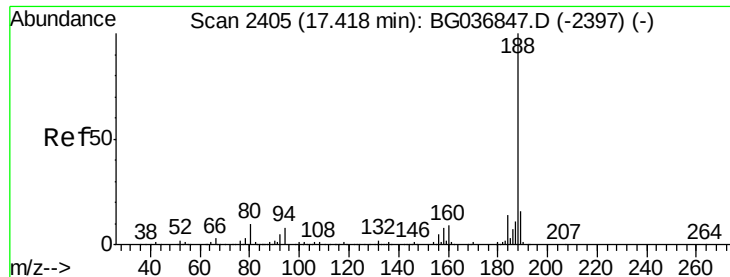
#56  
2,4-Dinitrotoluene  
Concen: 5.047 ng  
RT: 14.65 min Scan# 1934  
Delta R.T. -0.38 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

Tgt Ion:165 Resp: 13423  
Ion Ratio Lower Upper  
165 100  
63 2.0 40.1 60.1#  
89 1.9 63.7 95.5#  
182 0.0 2.5 3.7#



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

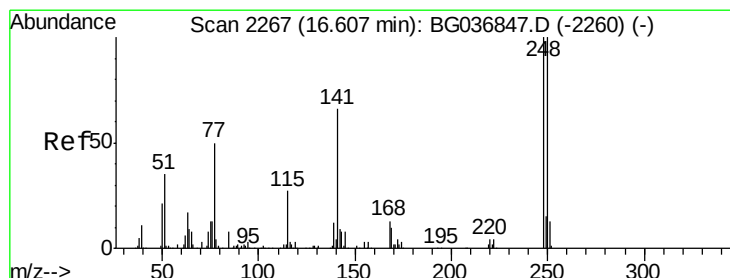
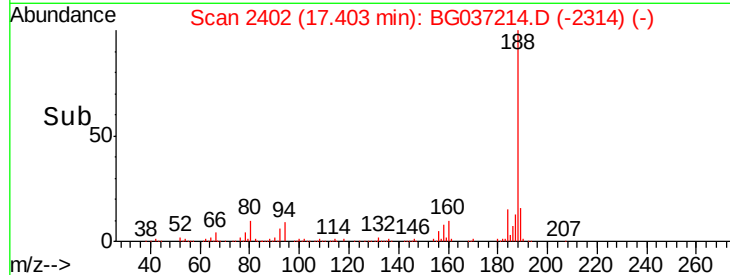
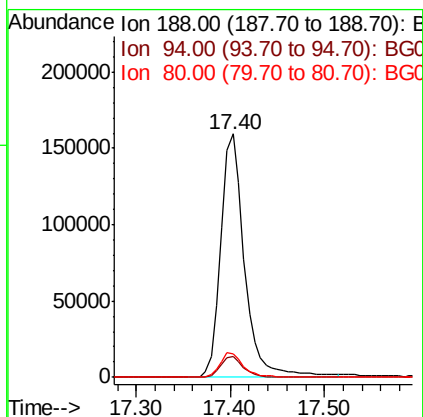
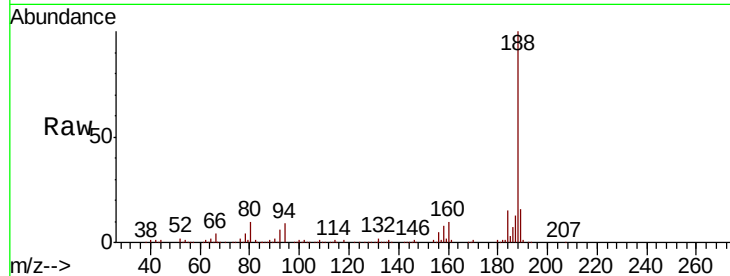




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.40 min Scan# 2402  
Delta R.T. -0.02 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

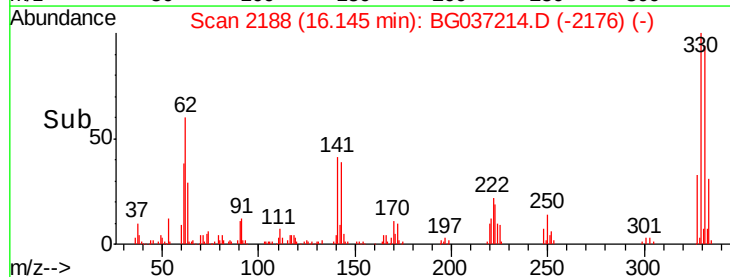
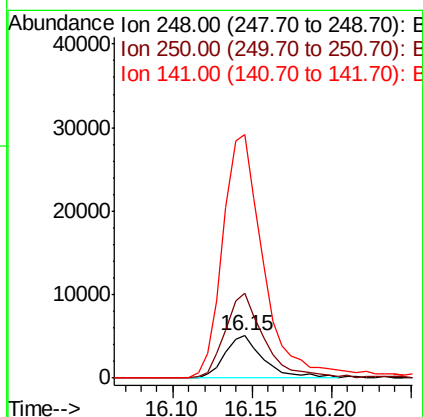
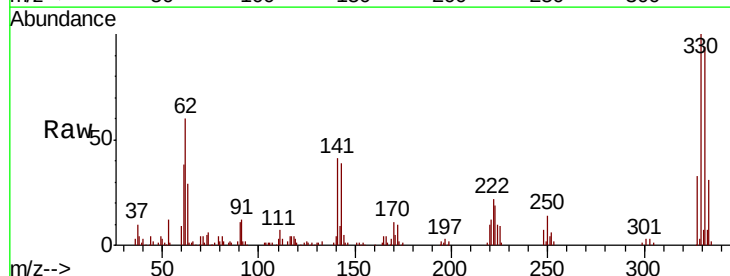
Instrument :  
BNA\_G  
ClientSampleId :  
100318-DBRI-E-U-B

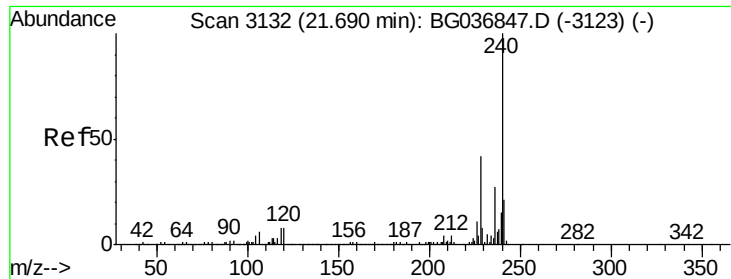
Tgt Ion:188 Resp: 283755  
Ion Ratio Lower Upper  
188 100  
94 8.7 6.7 10.1  
80 9.7 8.1 12.1



#66  
4-Bromophenyl-phenylether  
Concen: 2.659 ng  
RT: 16.15 min Scan# 2188  
Delta R.T. -0.46 min  
Lab File: BG037214.D  
Acq: 6 Oct 2018 15:55

Tgt Ion:248 Resp: 8583  
Ion Ratio Lower Upper  
248 100  
250 200.9 78.1 117.1#  
141 572.8 53.7 80.5#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.66 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Instrument :

BNA\_G

ClientSampleId :

100318-DBRI-E-U-B

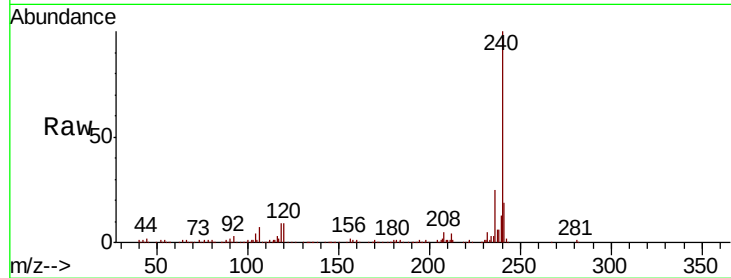
Tgt Ion:240 Resp: 287967

Ion Ratio Lower Upper

240 100

120 8.8 6.9 10.3

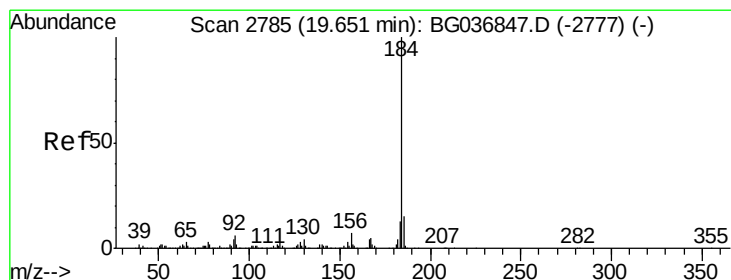
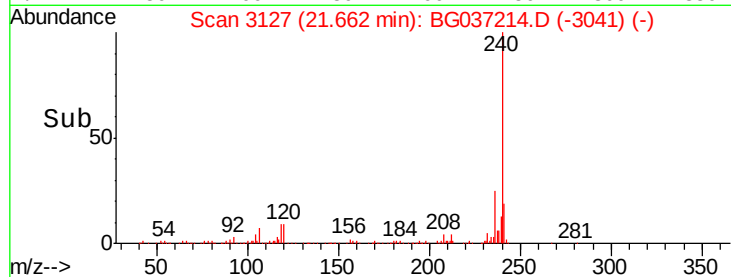
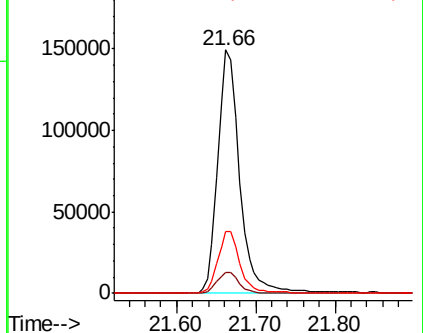
236 25.4 21.2 31.8



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: 2.537 ng

RT: 20.01 min Scan# 2845

Delta R.T. 0.35 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

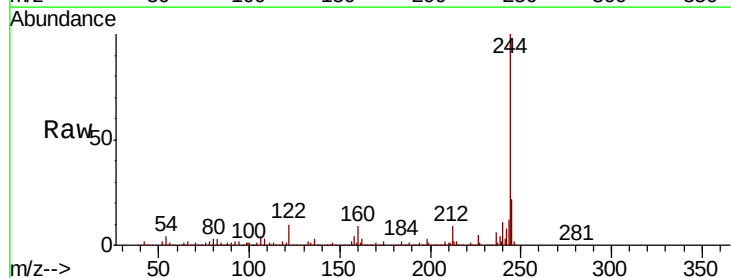
Tgt Ion:184 Resp: 22083

Ion Ratio Lower Upper

184 100

185 15.5 12.6 18.8

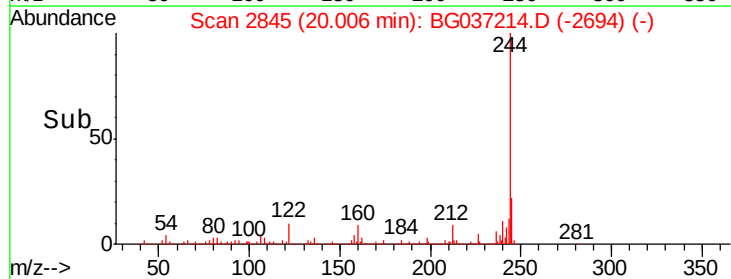
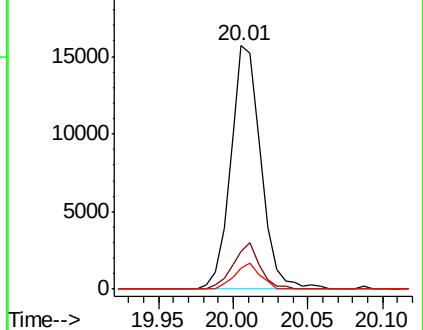
183 8.5 10.9 16.3#

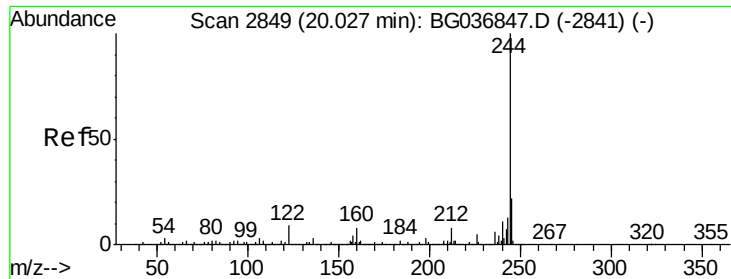


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 110.970 ng

RT: 20.01 min Scan# 2846

Delta R.T. -0.02 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

Instrument :

BNA\_G

ClientSampleId :

100318-DBRI-E-U-B

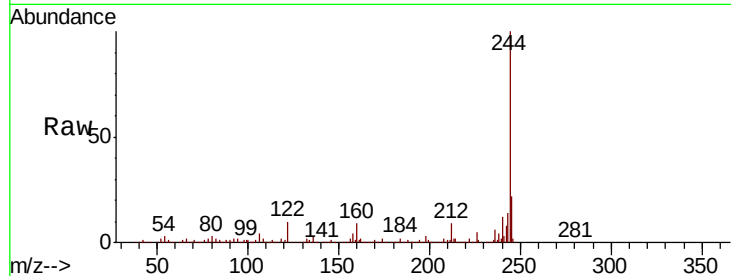
Tgt Ion:244 Resp: 1215276

Ion Ratio Lower Upper

244 100

212 8.6 7.0 10.6

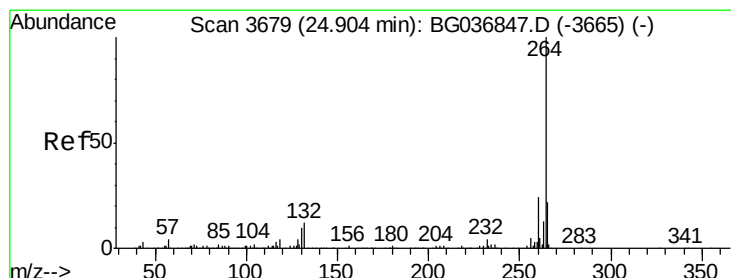
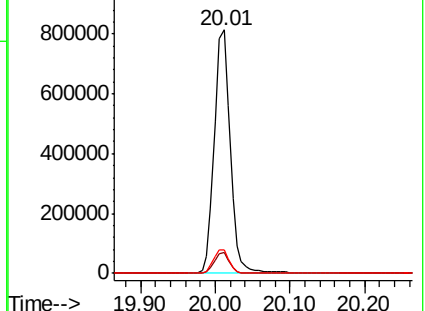
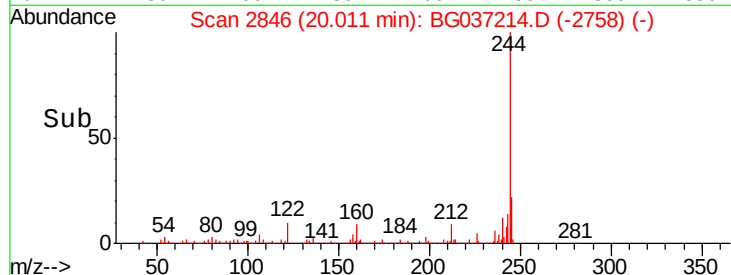
122 9.6 7.1 10.7



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: 24.86 min Scan# 3671

Delta R.T. -0.04 min

Lab File: BG037214.D

Acq: 6 Oct 2018 15:55

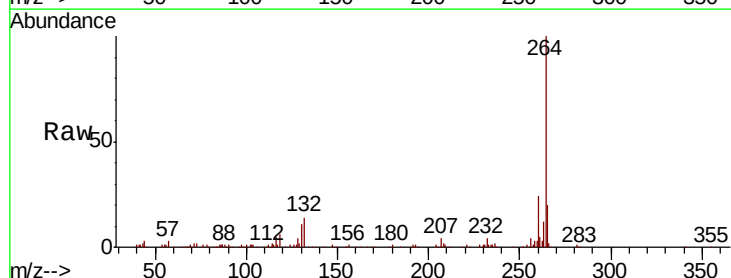
Tgt Ion:264 Resp: 281944

Ion Ratio Lower Upper

264 100

260 24.2 19.6 29.4

265 20.5 17.4 26.0



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

