

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG071318\  
 Data File : BG035646.D  
 Acq On : 14 Jul 2018 1:55  
 Operator : JU/SJ  
 Sample : J3975-04  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PAR-6

Quant Time: Jul 14 04:01:18 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 12 14:43:32 2018  
 Response via : Initial Calibration

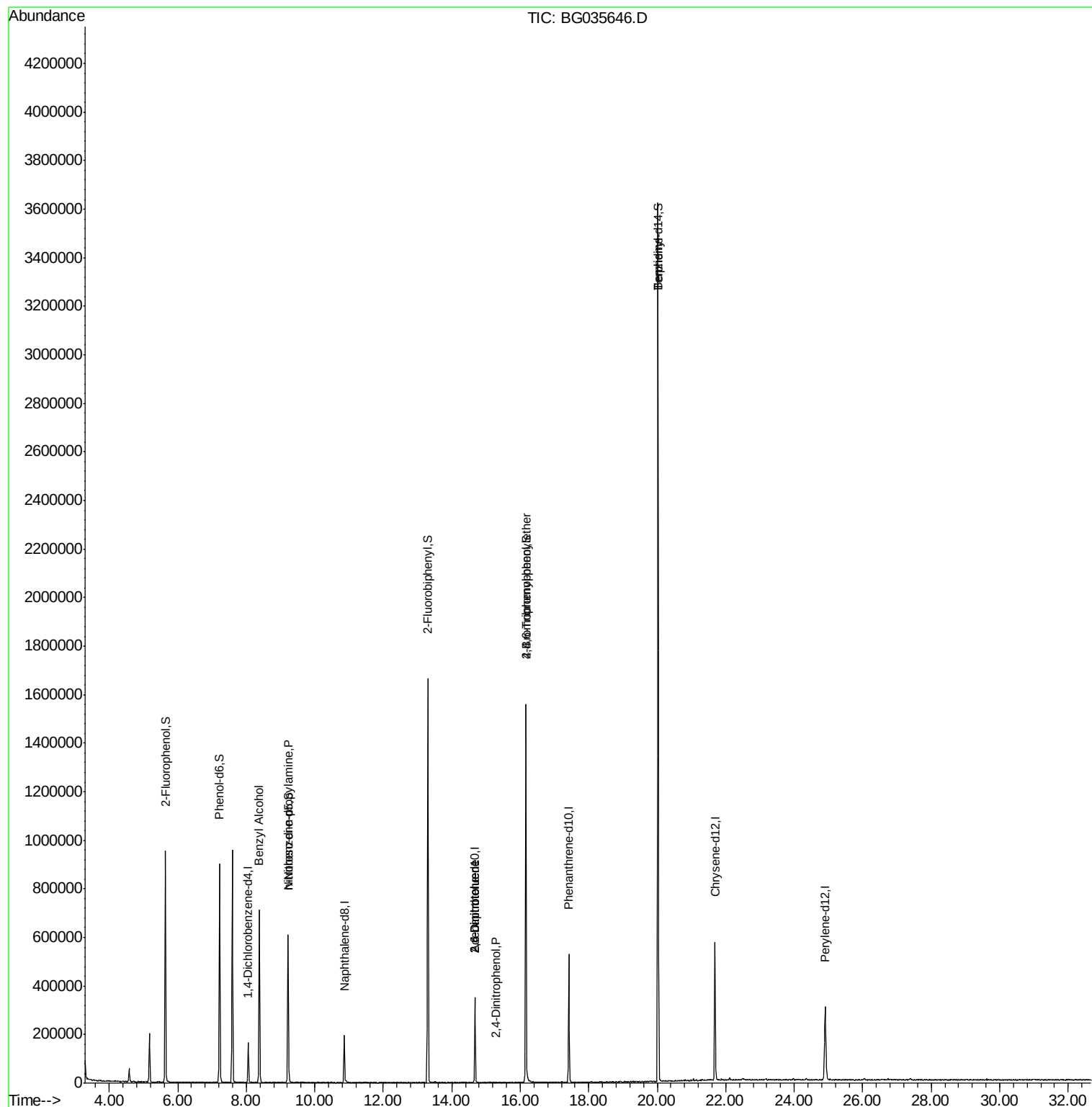
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 42720    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.86 | 136  | 159244   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.68 | 164  | 121569   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.42 | 188  | 339925   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.69 | 240  | 363589   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.90 | 264  | 340970   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 382123   | 148.51 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 529218   | 137.85 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 407602   | 106.93 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 275076   | 171.67 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 903034   | 99.52  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.02 | 244  | 1695851  | 102.81 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.38  | 79   | 7086     | 2.033  | ng    | # 41     |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 56722    | 17.546 | ng    | # 69     |
| 50) 2,6-Dinitrotoluene         | 14.68 | 165  | 15345    | 7.075  | ng    | # 22     |
| 53) 2,4-Dinitrophenol          | 15.28 | 184  | 58       | 6.630  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 15345    | 4.931  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 21646    | 5.489  | ng    | # 1      |
| 76) Benizidine                 | 20.02 | 184  | 32397    | 3.389  | ng    | # 93     |

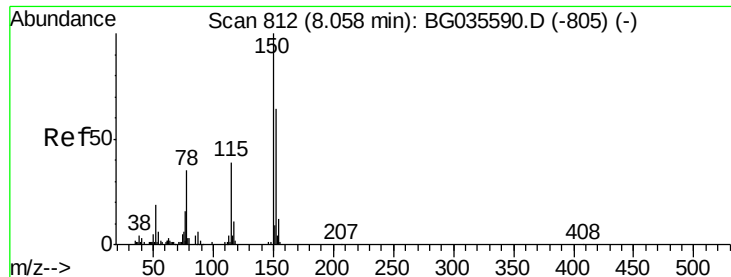
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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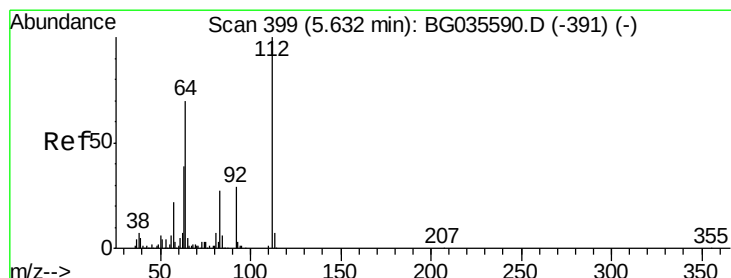
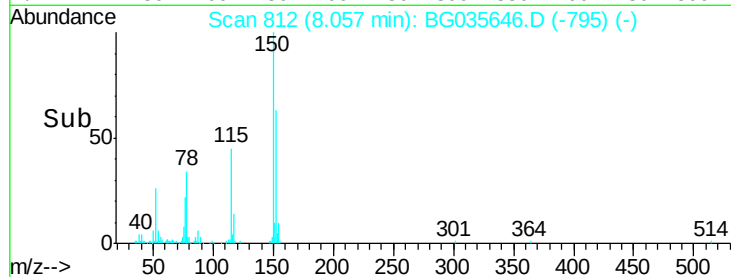
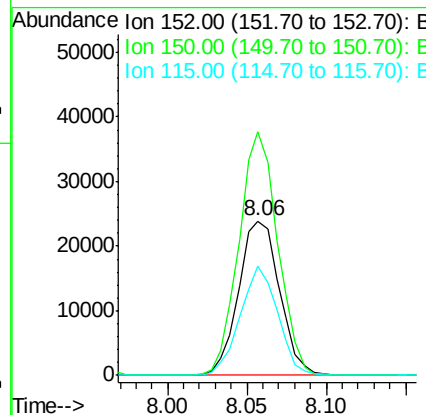
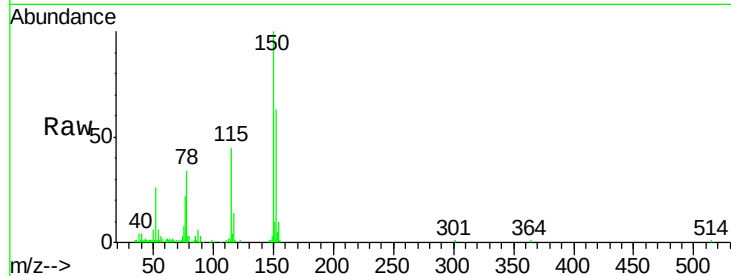


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

Instrument :  
BNA\_G  
ClientSampleId :  
PAR-6

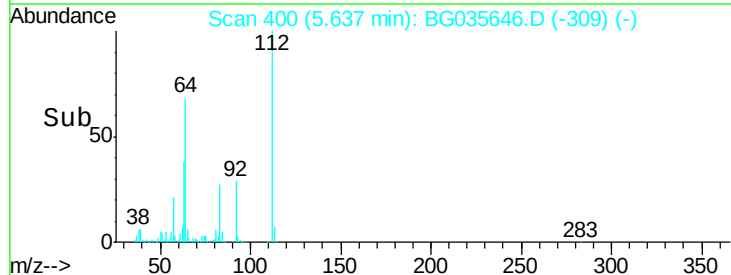
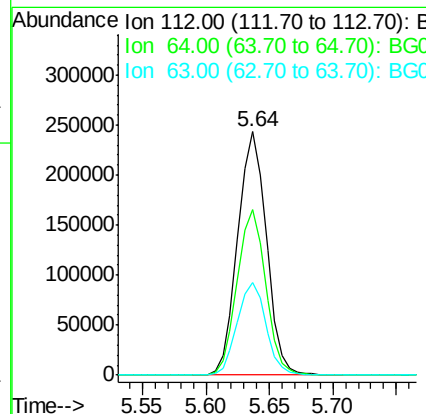
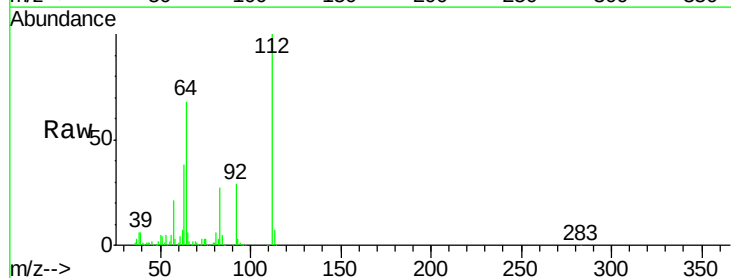
Tgt Ion:152 Resp: 42720  
Ion Ratio Lower Upper  
152 100  
150 157.6 126.6 189.8  
115 71.1 53.0 79.4

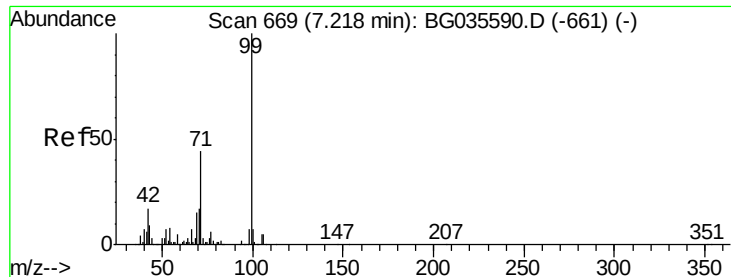


#5

2-Fluorophenol  
Concen: 148.505 ng  
RT: 5.64 min Scan# 400  
Delta R.T. 0.00 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

Tgt Ion:112 Resp: 382123  
Ion Ratio Lower Upper  
112 100  
64 68.2 56.3 84.5  
63 38.0 30.1 45.1





#7

Phenol-d6

Concen: 137.850 ng

RT: 7.22 min Scan# 670

Delta R.T. 0.00 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

Instrument :

BNA\_G

ClientSampleId :

PAR-6

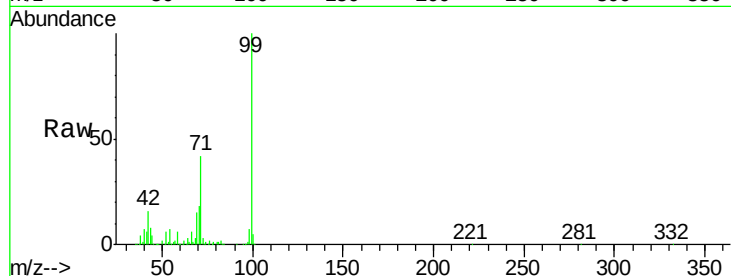
Tgt Ion: 99 Resp: 529218

Ion Ratio Lower Upper

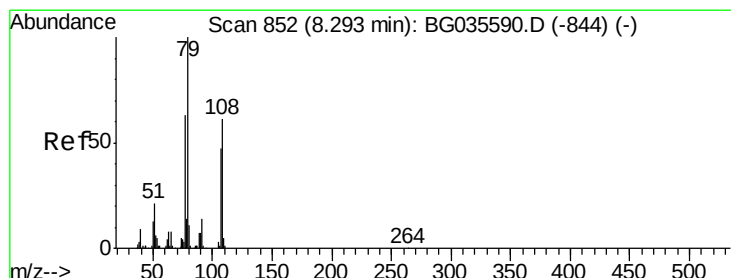
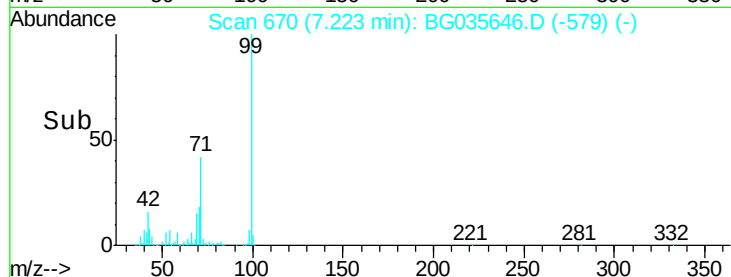
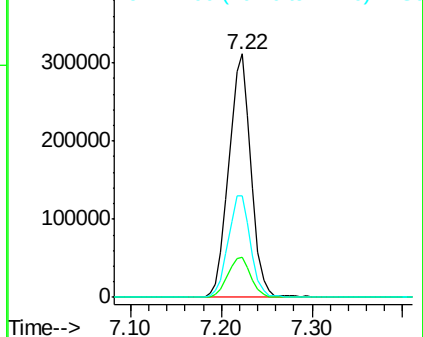
99 100

42 16.3 14.1 21.1

71 41.8 26.1 39.1#



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#15

Benzyl Alcohol

Concen: 2.033 ng

RT: 8.38 min Scan# 867

Delta R.T. 0.09 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

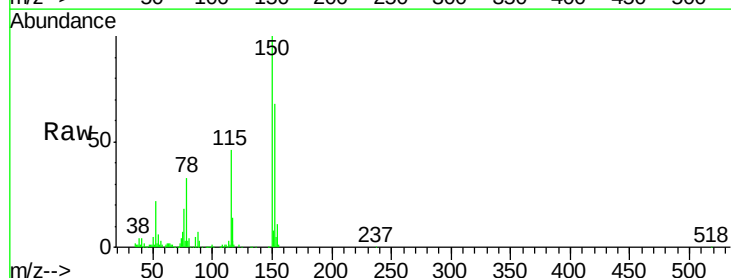
Tgt Ion: 79 Resp: 7086

Ion Ratio Lower Upper

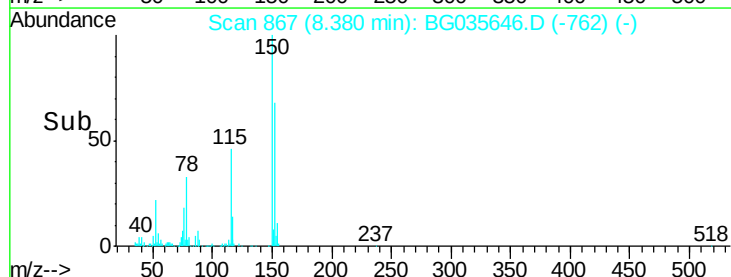
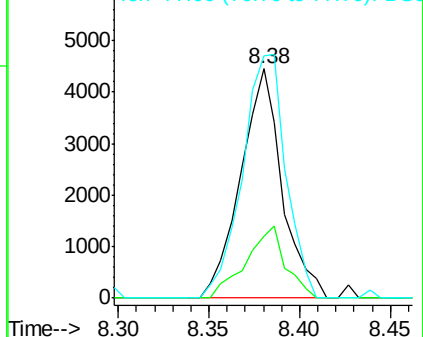
79 100

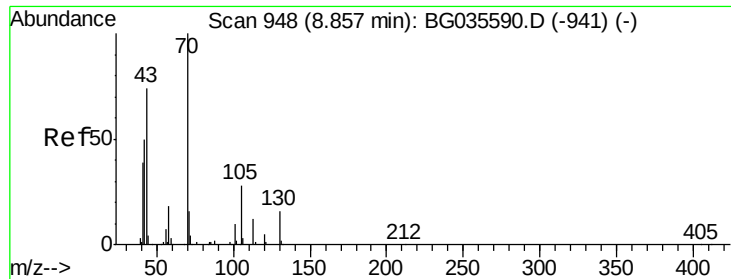
108 27.1 57.2 85.8#

77 105.7 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

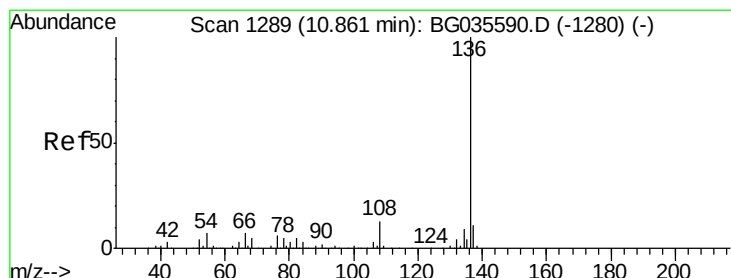
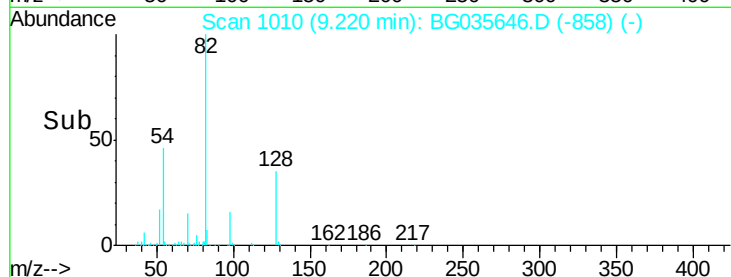
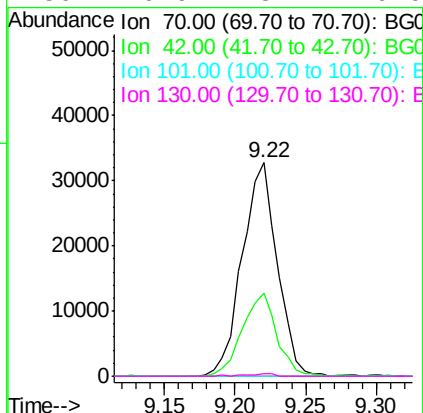
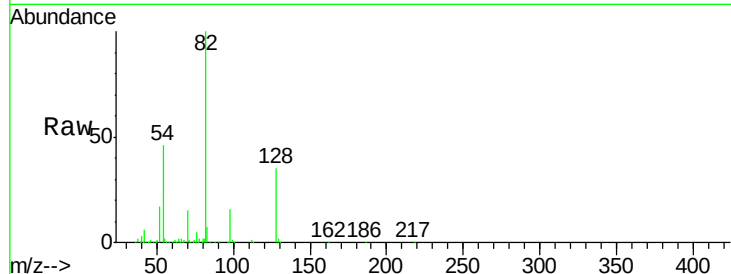




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.546 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. 0.36 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

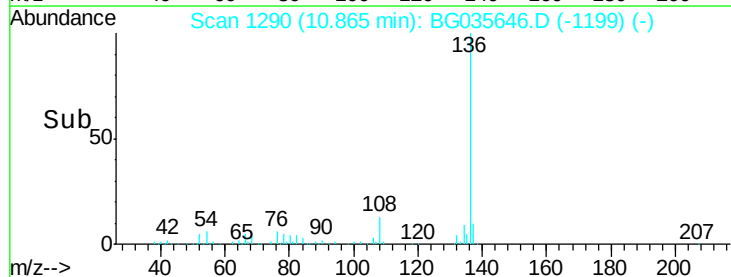
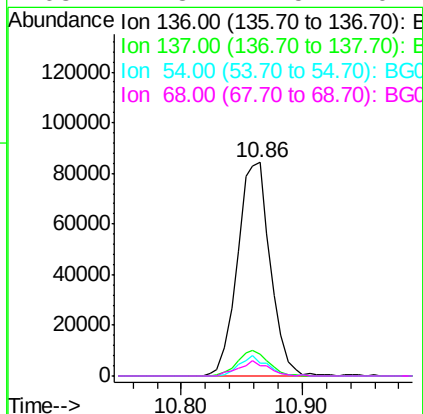
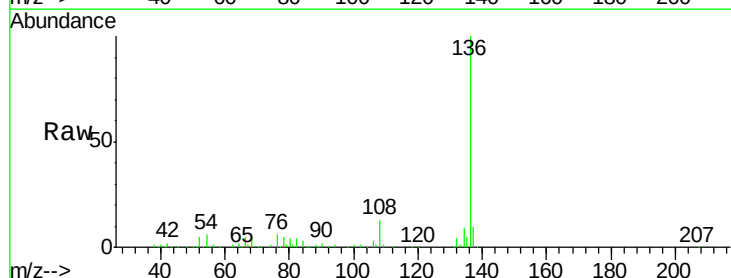
Instrument :  
BNA\_G  
ClientSampleId :  
PAR-6

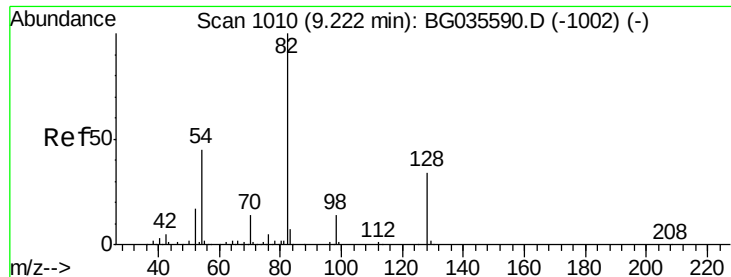
Tgt Ion: 70 Resp: 56722  
Ion Ratio Lower Upper  
70 100  
42 38.8 49.1 73.7#  
101 0.0 8.5 12.7#  
130 0.9 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1290  
Delta R.T. 0.00 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

Tgt Ion: 136 Resp: 159244  
Ion Ratio Lower Upper  
136 100  
137 10.0 9.2 13.8  
54 5.9 10.3 15.5#  
68 4.8 4.5 6.7





#23

Nitrobenzene-d5

Concen: 106.927 ng

RT: 9.22 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

Instrument :

BNA\_G

ClientSampled :

PAR-6

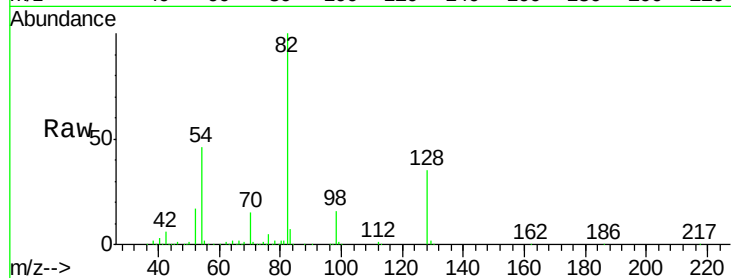
Tgt Ion: 82 Resp: 407602

Ion Ratio Lower Upper

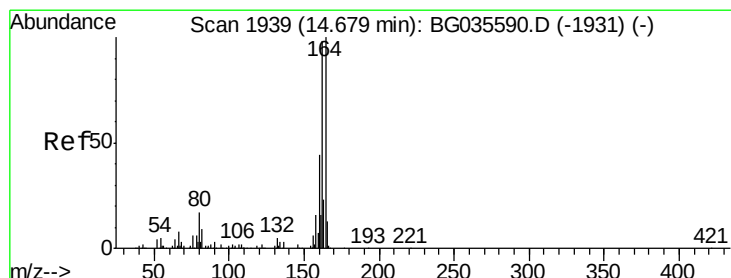
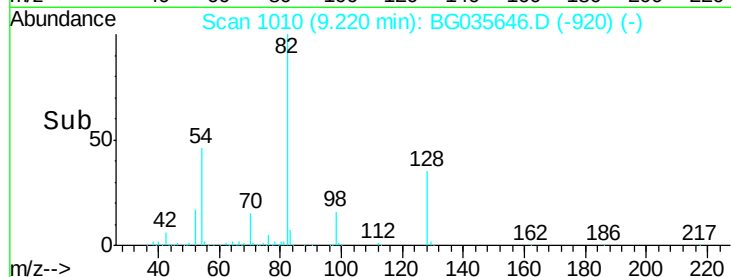
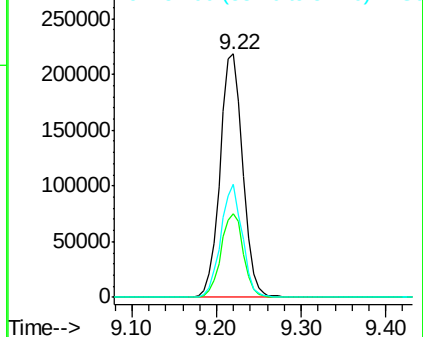
82 100

128 34.6 29.7 44.5

54 46.4 43.1 64.7



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.00 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

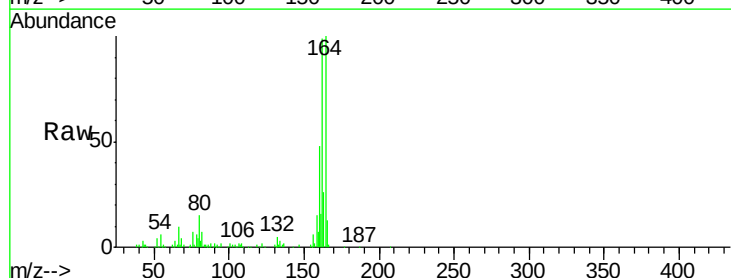
Tgt Ion: 164 Resp: 121569

Ion Ratio Lower Upper

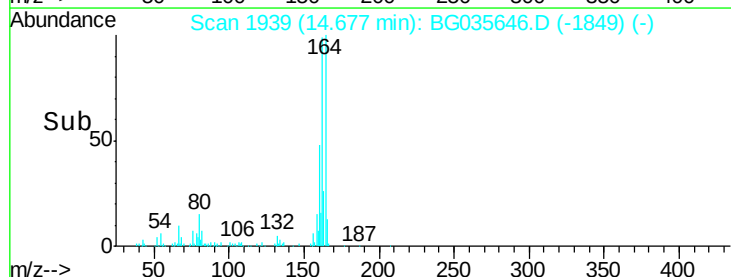
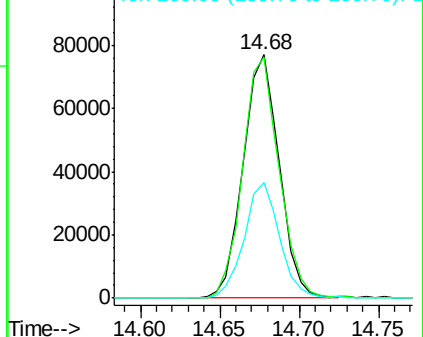
164 100

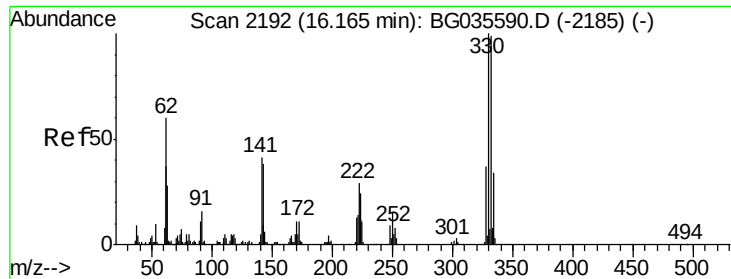
162 99.0 78.8 118.2

160 47.7 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

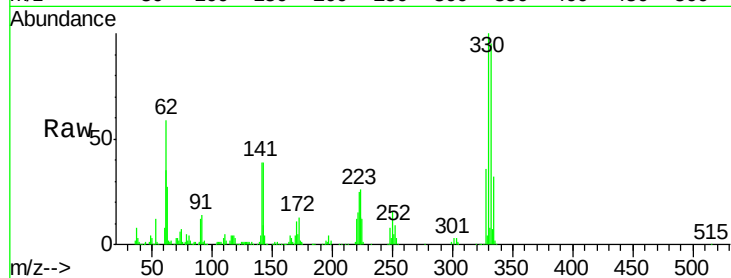




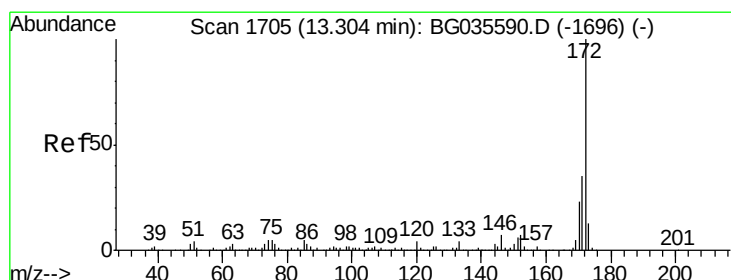
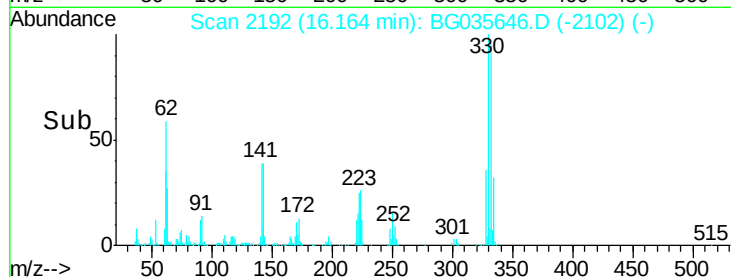
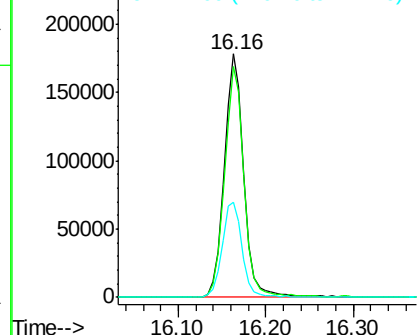
#41  
 2,4,6-Tribromophenol  
 Concen: 171.670 ng  
 RT: 16.16 min Scan# 2192  
 Delta R.T. -0.00 min  
 Lab File: BG035646.D  
 Acq: 14 Jul 2018 1:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PAR-6

Tgt Ion:330 Resp: 275076  
 Ion Ratio Lower Upper  
 330 100  
 332 94.3 77.0 115.6  
 141 40.3 25.2 37.8#

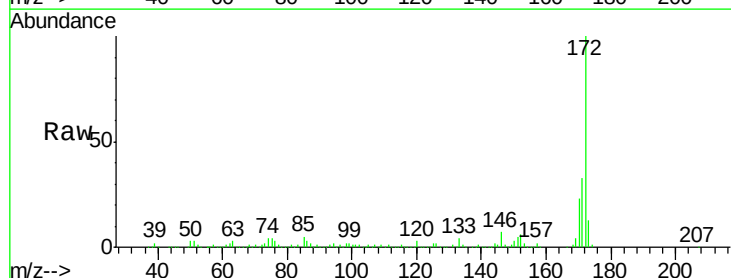


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

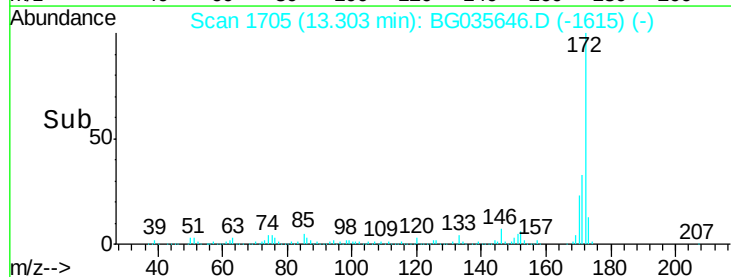
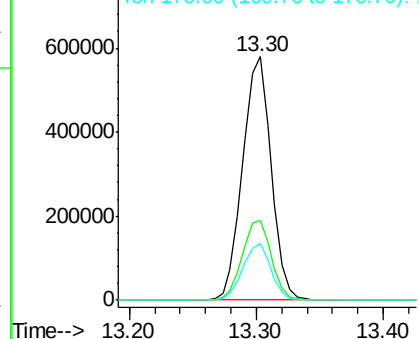


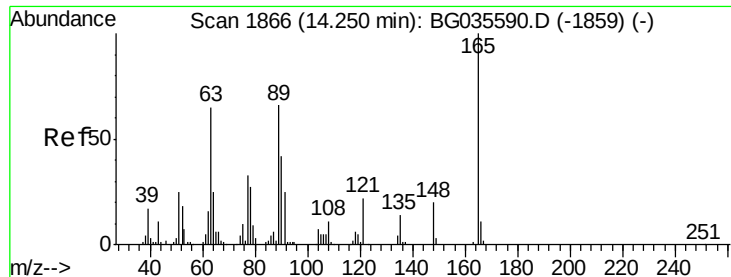
#44  
 2-Fluorobiphenyl  
 Concen: 99.518 ng  
 RT: 13.30 min Scan# 1705  
 Delta R.T. -0.00 min  
 Lab File: BG035646.D  
 Acq: 14 Jul 2018 1:55

Tgt Ion:172 Resp: 903034  
 Ion Ratio Lower Upper  
 172 100  
 171 32.5 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

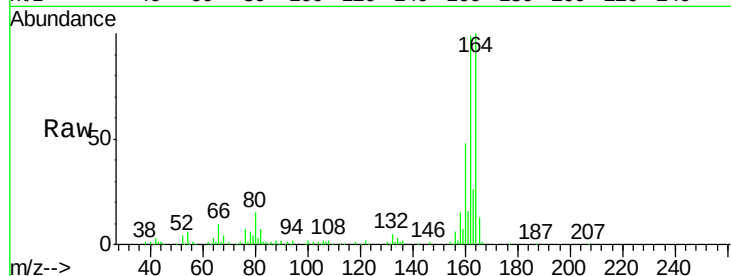




#50  
2,6-Dinitrotoluene  
Concen: 7.075 ng  
RT: 14.68 min Scan# 1939  
Delta R.T. 0.43 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

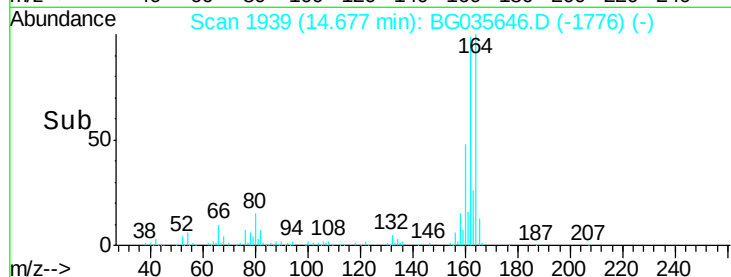
Instrument :  
BNA\_G  
ClientSampleId :  
PAR-6

Tgt Ion:165 Resp: 15345  
Ion Ratio Lower Upper  
165 100  
63 2.6 52.7 79.1#  
89 2.6 49.2 73.8#

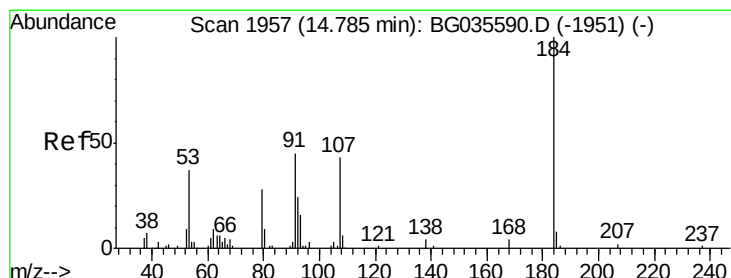


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

14.68

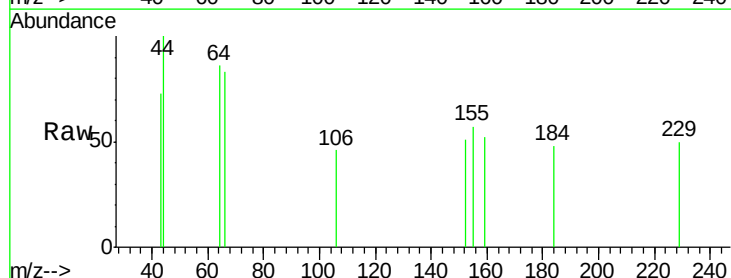


Time--> 14.60 14.65 14.70



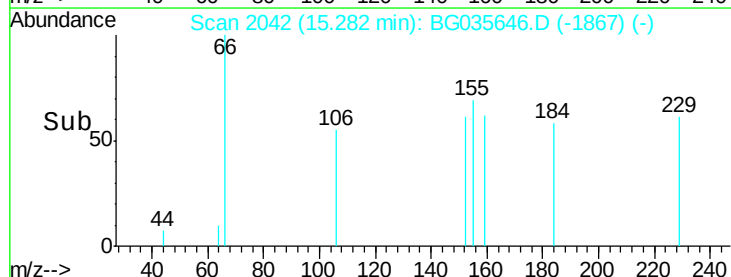
#53  
2,4-Dinitrophenol  
Concen: 6.630 ng  
RT: 15.28 min Scan# 2042  
Delta R.T. 0.50 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

Tgt Ion:184 Resp: 58  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#



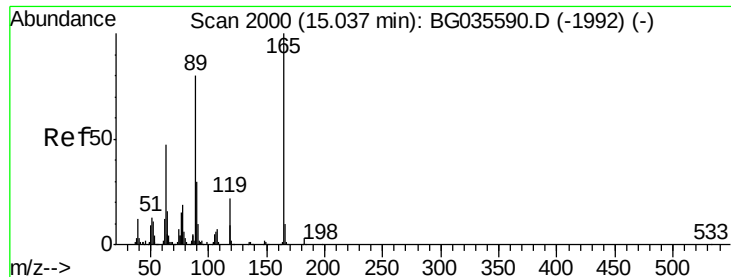
Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

15.28



Time--> 15.27 15.28 15.29





#56

2,4-Dinitrotoluene

Concen: 4.931 ng

RT: 14.68 min Scan# 1939

Delta R.T. -0.36 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

Instrument :

BNA\_G

ClientSampleId :

PAR-6

Tgt Ion:165 Resp: 15345

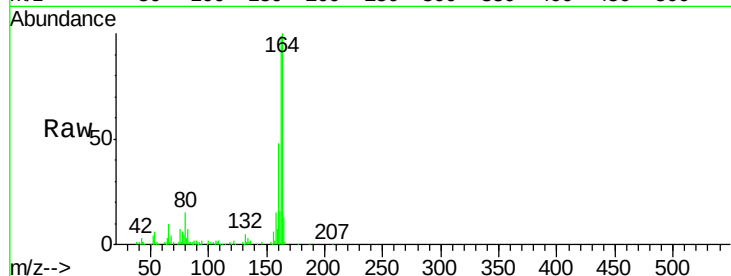
Ion Ratio Lower Upper

165 100

63 2.6 42.0 63.0#

89 2.6 66.9 100.3#

182 0.0 2.6 3.8#

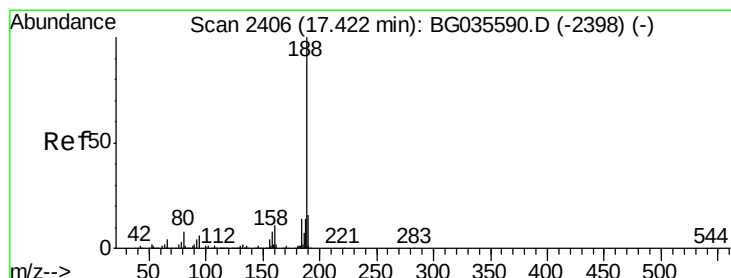
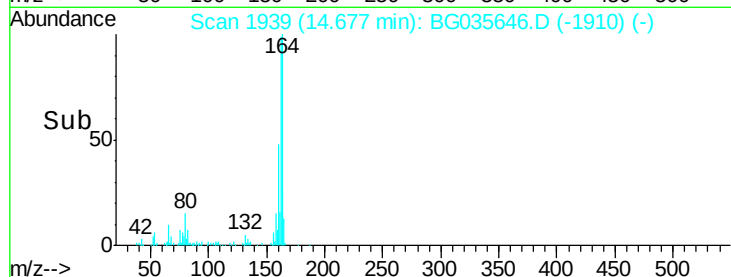
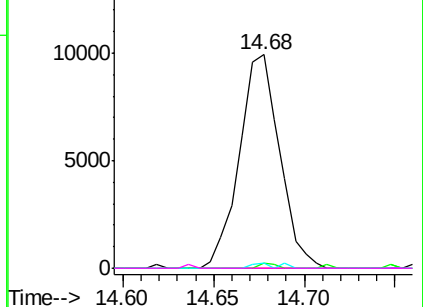


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2406

Delta R.T. -0.00 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

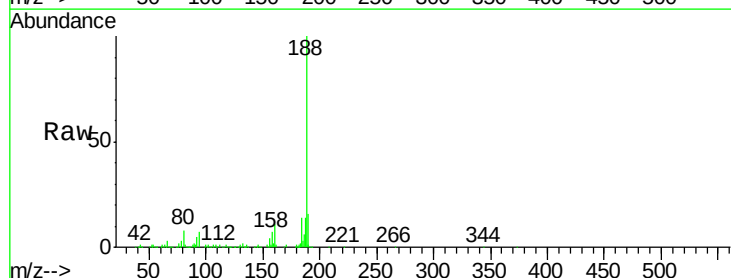
Tgt Ion:188 Resp: 339925

Ion Ratio Lower Upper

188 100

94 6.8 6.9 10.3#

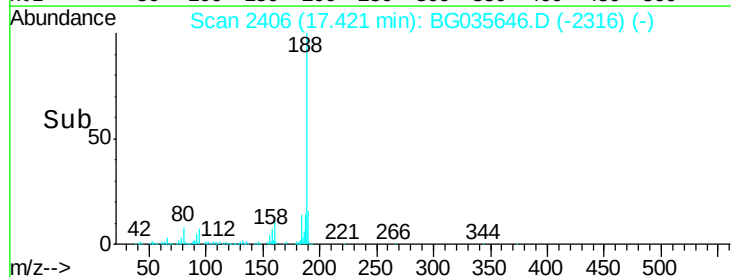
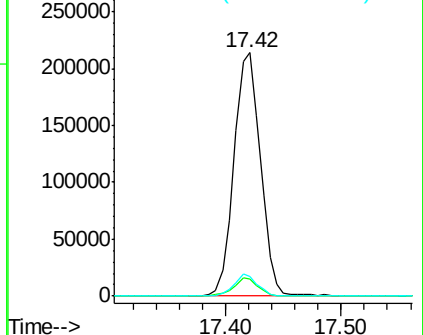
80 7.8 7.7 11.5

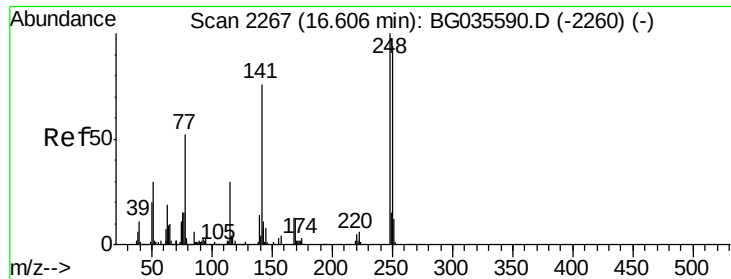


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

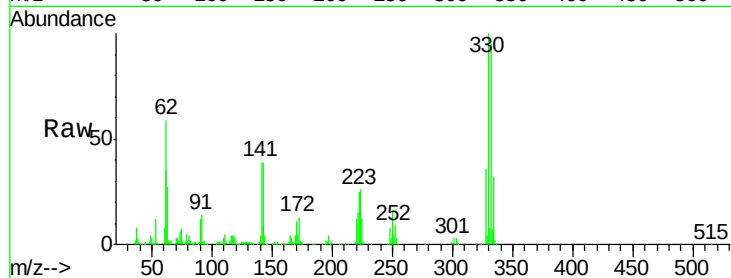




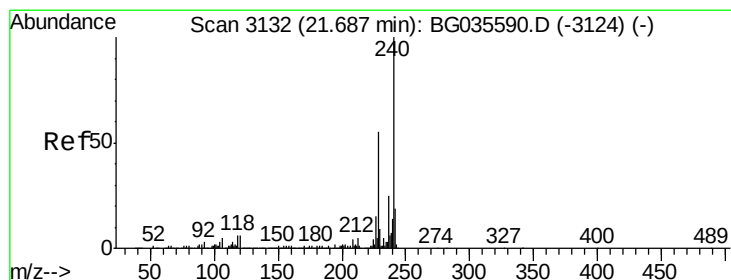
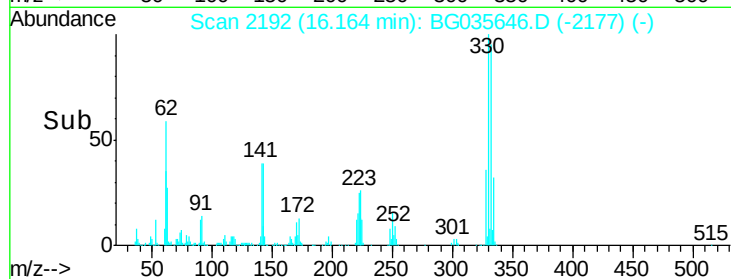
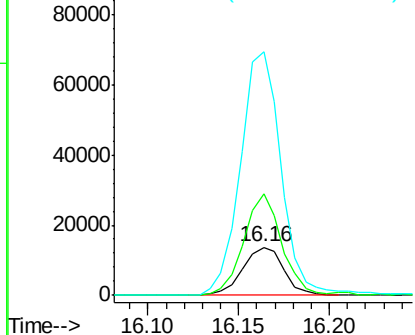
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.489 ng  
 RT: 16.16 min Scan# 2192  
 Delta R.T. -0.44 min  
 Lab File: BG035646.D  
 Acq: 14 Jul 2018 1:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PAR-6

Tgt Ion:248 Resp: 21646  
 Ion Ratio Lower Upper  
 248 100  
 250 212.7 77.1 115.7#  
 141 508.7 50.8 76.2#

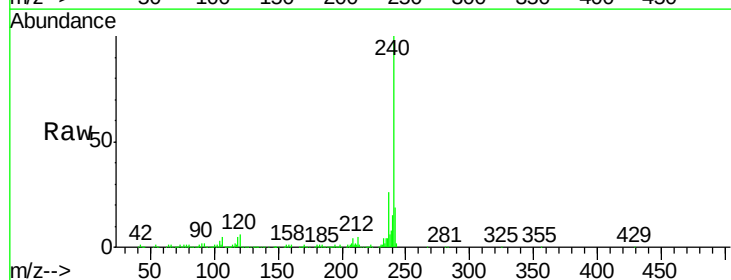


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

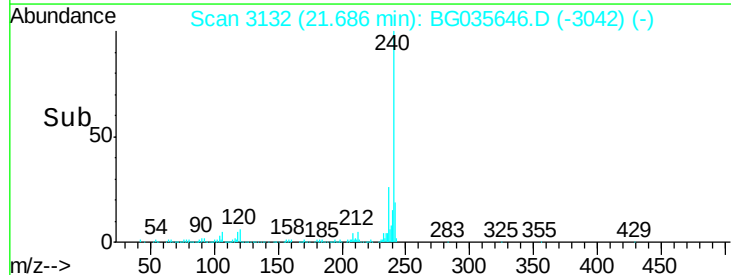
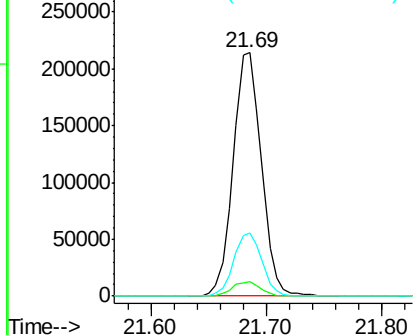


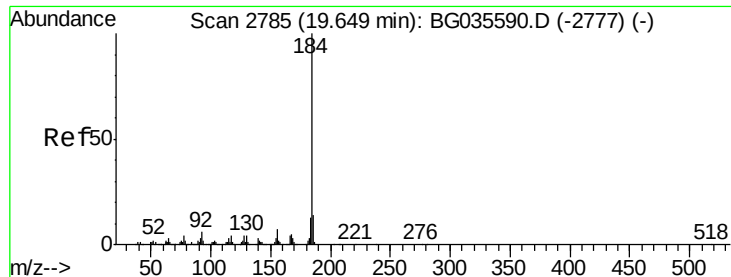
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3132  
 Delta R.T. -0.00 min  
 Lab File: BG035646.D  
 Acq: 14 Jul 2018 1:55

Tgt Ion:240 Resp: 363589  
 Ion Ratio Lower Upper  
 240 100  
 120 6.2 6.8 10.2#  
 236 26.0 20.9 31.3



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





#76

Benzidine

Concen: 3.389 ng

RT: 20.02 min Scan# 2849

Delta R.T. 0.37 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

Instrument :

BNA\_G

ClientSampleId :

PAR-6

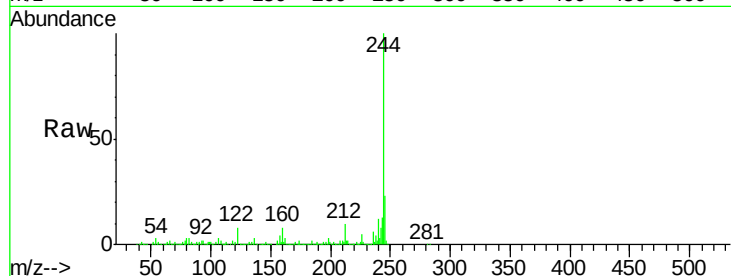
Tgt Ion:184 Resp: 32397

Ion Ratio Lower Upper

184 100

185 16.8 11.1 16.7#

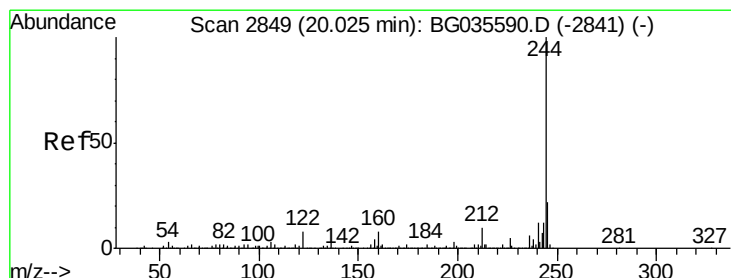
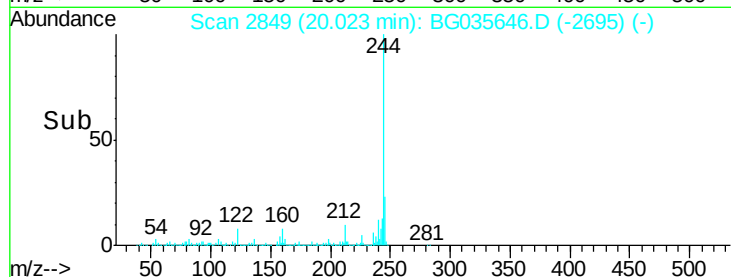
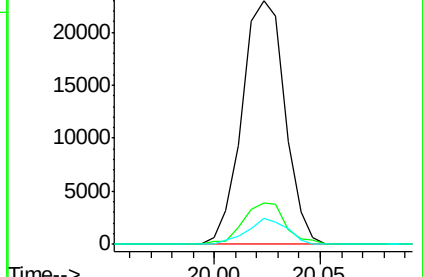
183 10.6 10.6 16.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 102.813 ng

RT: 20.02 min Scan# 2849

Delta R.T. -0.00 min

Lab File: BG035646.D

Acq: 14 Jul 2018 1:55

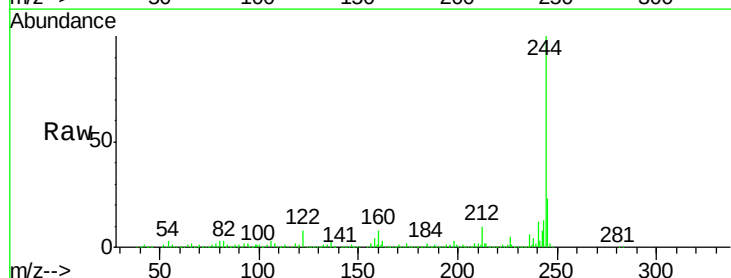
Tgt Ion:244 Resp: 1695851

Ion Ratio Lower Upper

244 100

212 10.1 5.8 8.8#

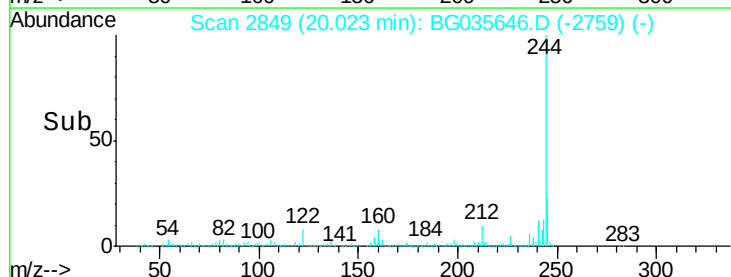
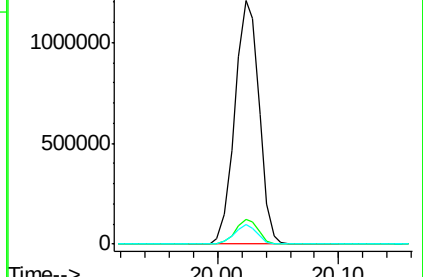
122 7.8 7.0 10.4

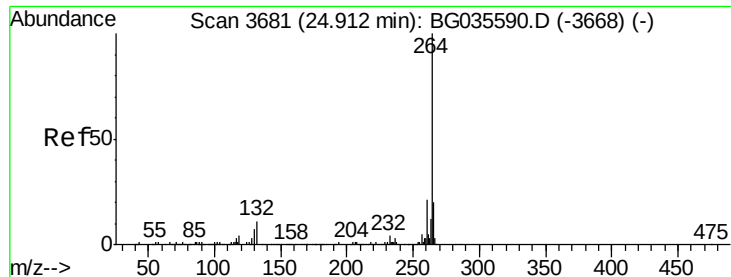


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.90 min Scan# 3679  
Delta R.T. -0.01 min  
Lab File: BG035646.D  
Acq: 14 Jul 2018 1:55

Instrument :  
BNA\_G  
ClientSampleId :  
PAR-6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.0  | 17.4  | 26.0  |
| 265     | 20.3  | 17.7  | 26.5  |

