

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072518\  
 Data File : BG035900.D  
 Acq On : 26 Jul 2018 8:48  
 Operator : JU/SJ  
 Sample : J4107-06  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 071918-DBRI-E-U-S

Quant Time: Jul 26 11:01:30 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 11:04:14 2018  
 Response via : Initial Calibration

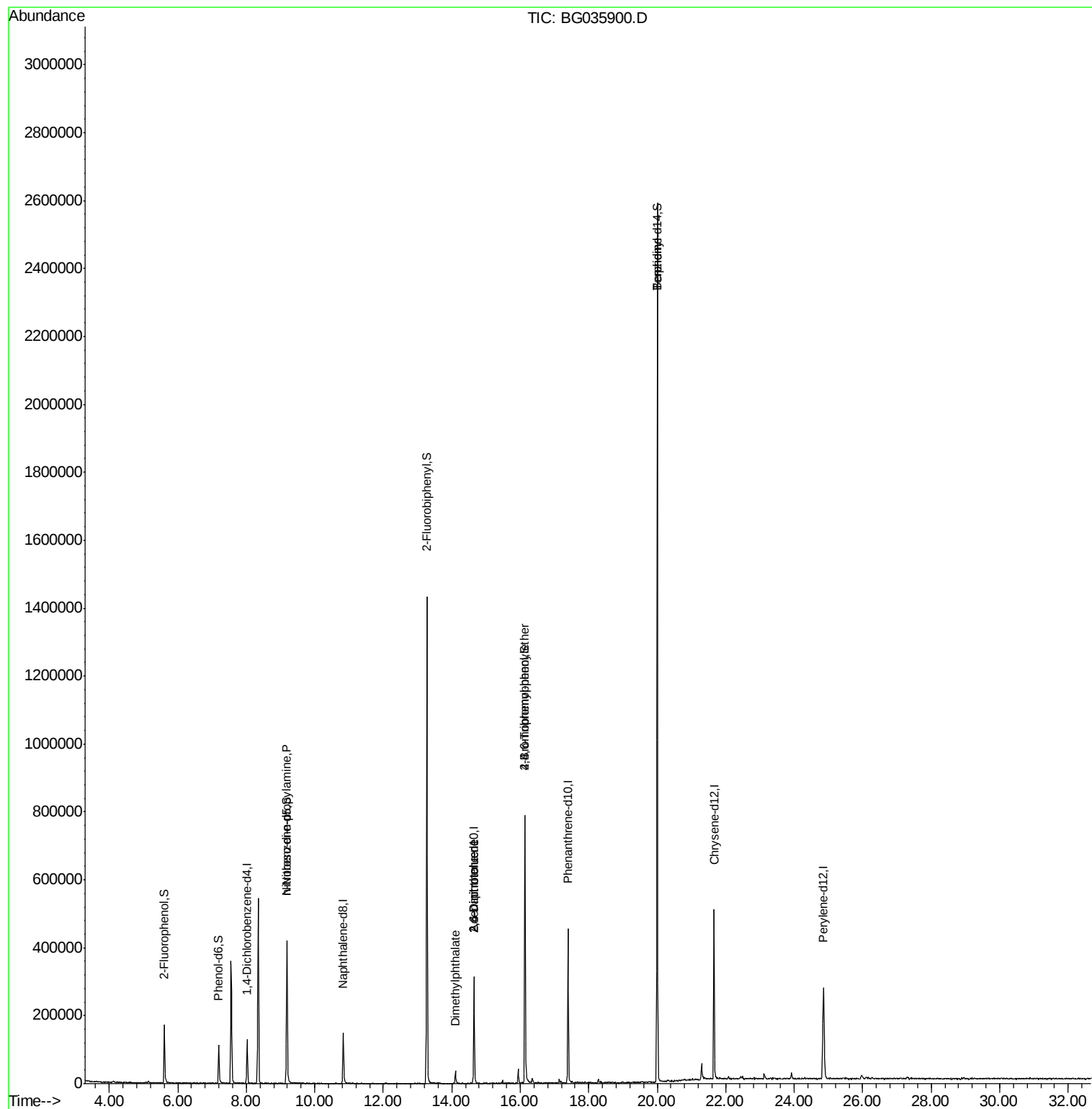
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 35395    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 135652   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.65 | 164  | 110768   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.39 | 188  | 303569   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.66 | 240  | 321921   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.85 | 264  | 307610   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 84755    | 39.76  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 80264    | 25.23  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 304445   | 93.76  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.13 | 330  | 157130   | 107.62 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.27 | 172  | 799414   | 96.69  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.00 | 244  | 1222017  | 83.68  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 42463    | 15.853 | ng    | # 67     |
| 49) Dimethylphthalate          | 14.10 | 163  | 33208    | 3.422  | ng    | # 94     |
| 50) 2,6-Dinitrotoluene         | 14.65 | 165  | 13982    | 7.075  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.65 | 165  | 13982    | 4.931  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 13252    | 3.763  | ng    | # 1      |
| 76) Benzidine                  | 20.00 | 184  | 20991    | 2.480  | ng    | # 89     |

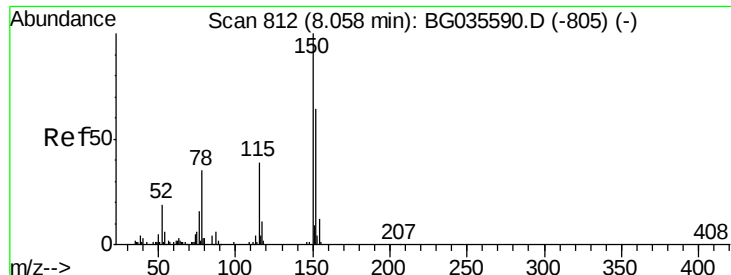
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
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BNA\_G  
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Quant Time: Jul 26 11:01:30 2018  
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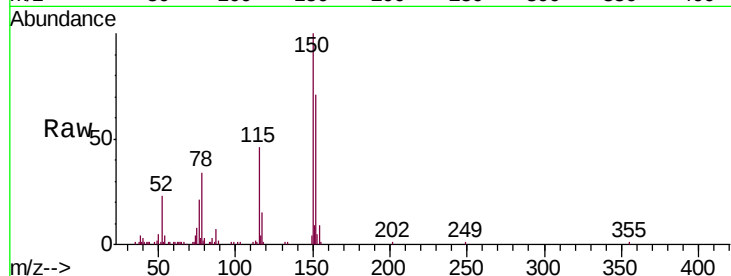


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 807  
Delta R.T. 0.00 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

Instrument :  
BNA\_G  
ClientSampleId :  
071918-DBRI-E-U-S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.6 | 126.6 | 189.8 |
| 115     | 65.8  | 53.0  | 79.4  |

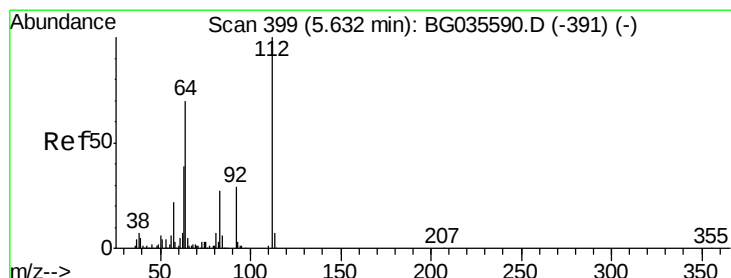
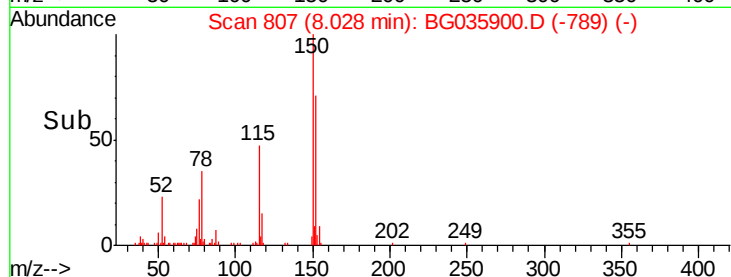
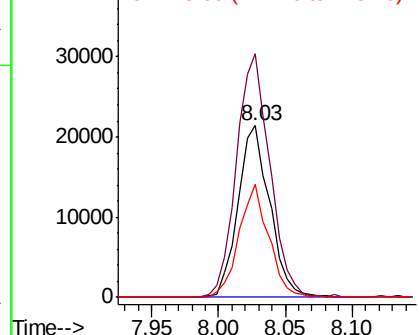


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

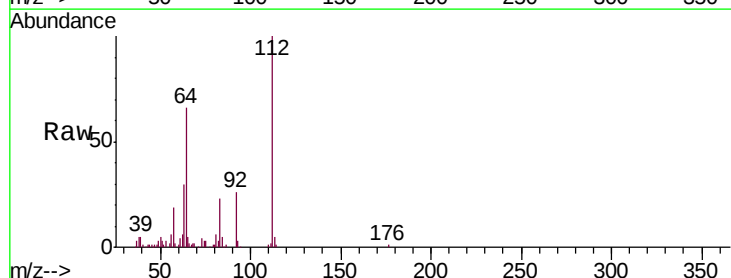
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 39.755 ng  
RT: 5.61 min Scan# 395  
Delta R.T. 0.00 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.3  | 56.3  | 84.5  |
| 63      | 30.3  | 30.1  | 45.1  |

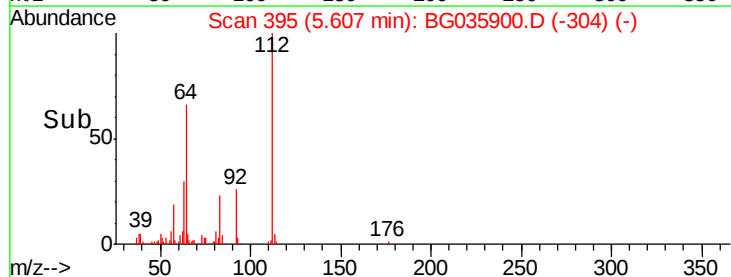
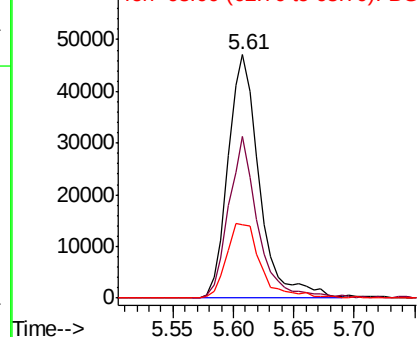


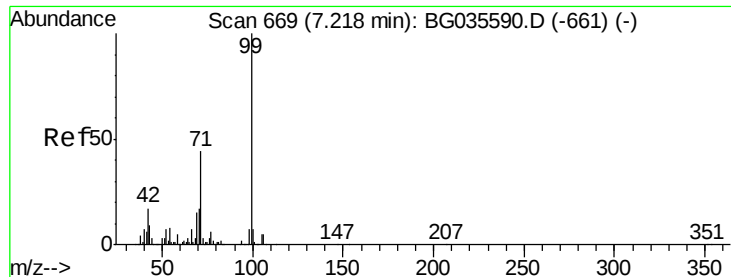
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 25.234 ng

RT: 7.19 min Scan# 665

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Instrument :

BNA\_G

ClientSampleId :

071918-DBRI-E-U-S

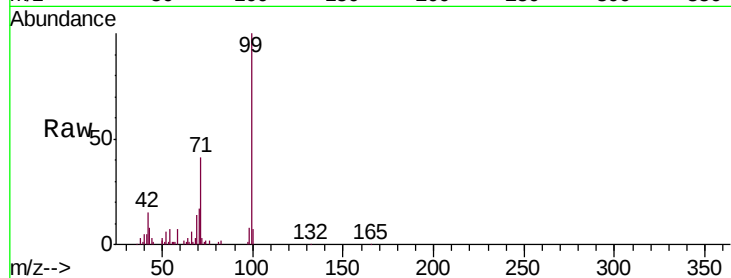
Tgt Ion: 99 Resp: 80264

Ion Ratio Lower Upper

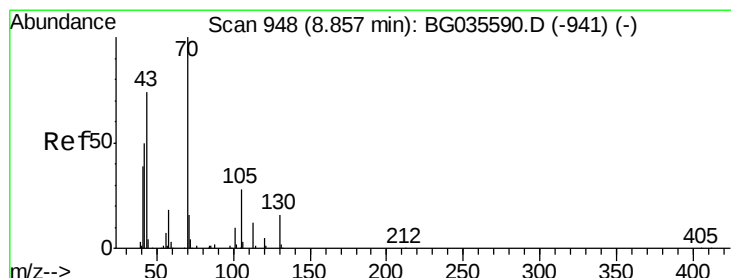
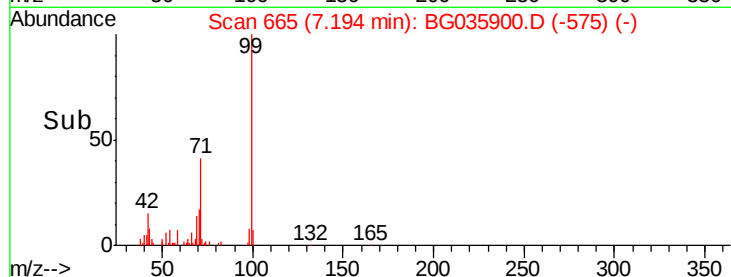
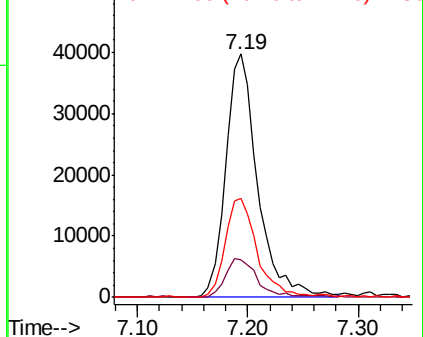
99 100

42 15.4 14.1 21.1

71 40.6 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



#19

n-Nitroso-di-n-propylamine

Concen: 15.853 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.36 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Tgt Ion: 70 Resp: 42463

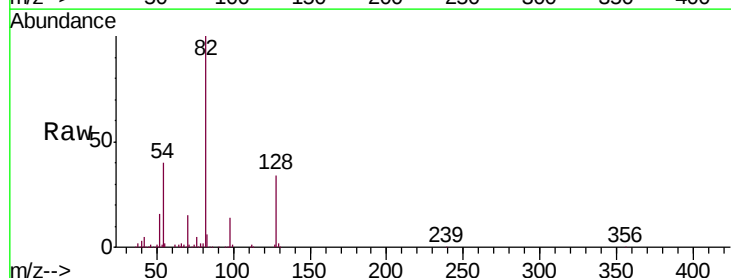
Ion Ratio Lower Upper

70 100

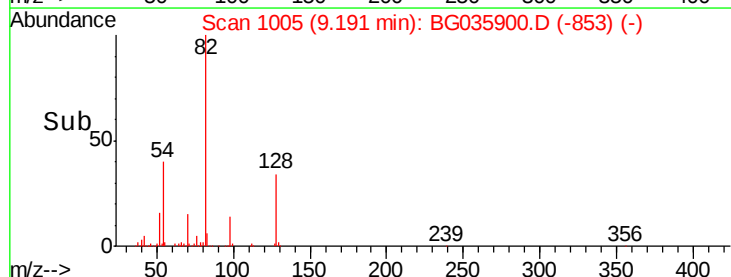
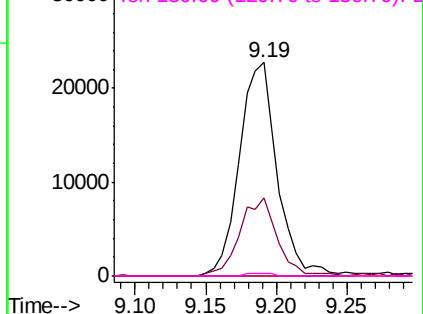
42 36.3 49.1 73.7#

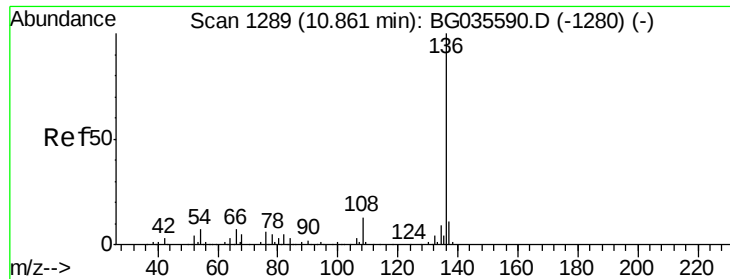
101 0.0 8.5 12.7#

130 1.4 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

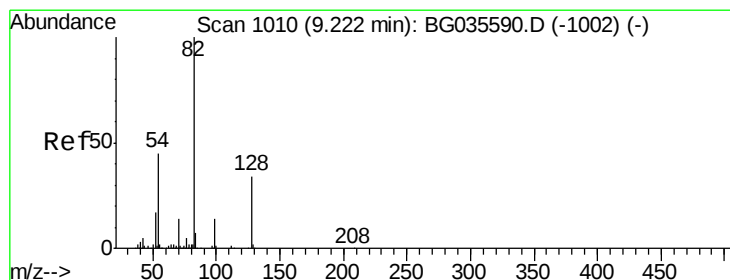
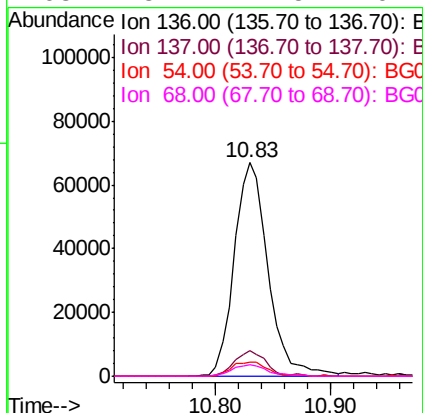
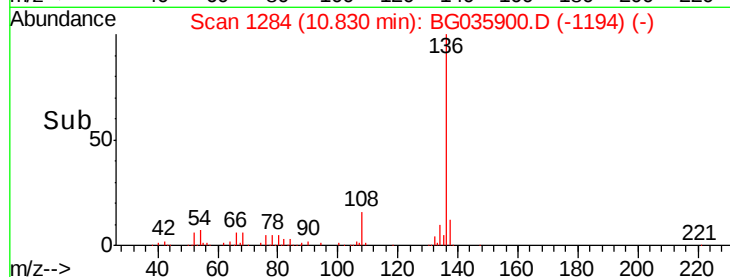
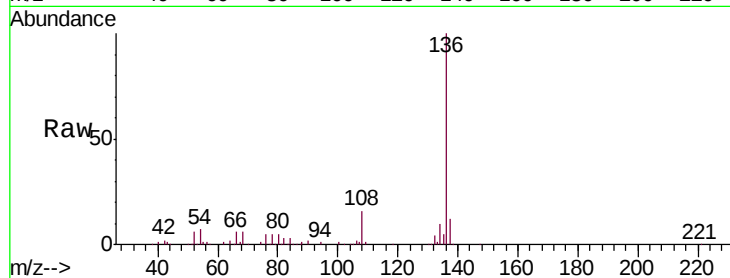




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

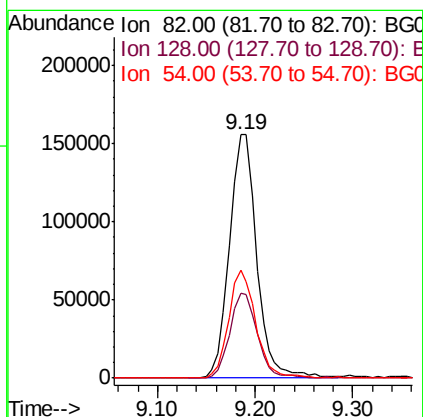
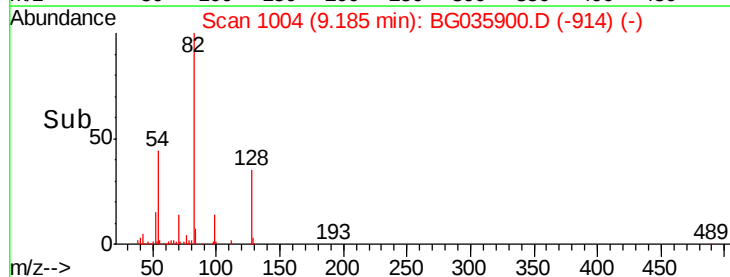
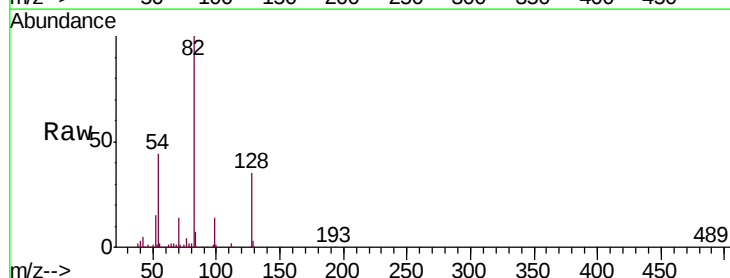
Instrument :  
BNA\_G  
ClientSampleId :  
071918-DBRI-E-U-S

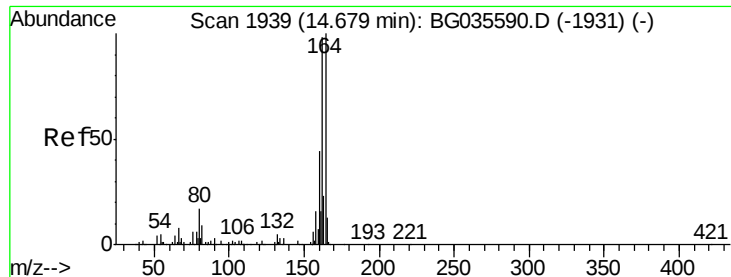
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 135652 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 12.2  | 9.2   | 13.8   |
| 54        | 6.6   | 10.3  | 15.5   |
| 68        | 5.7   | 4.5   | 6.7    |



#23  
Nitrobenzene-d5  
Concen: 93.755 ng  
RT: 9.19 min Scan# 1004  
Delta R.T. -0.00 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 304445 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 34.9  | 29.7  | 44.5   |
| 54        | 44.4  | 43.1  | 64.7   |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.65 min Scan# 1934

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Instrument :

BNA\_G

ClientSampleId :

071918-DBRI-E-U-S

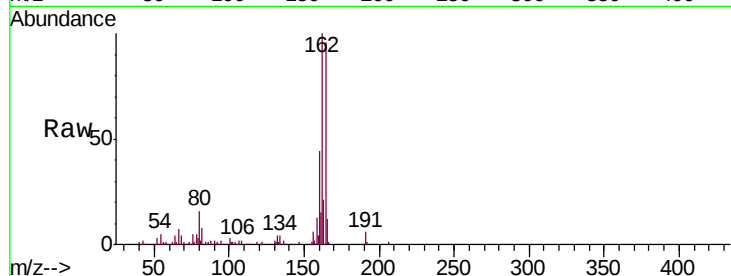
Tgt Ion:164 Resp: 110768

Ion Ratio Lower Upper

164 100

162 104.7 78.8 118.2

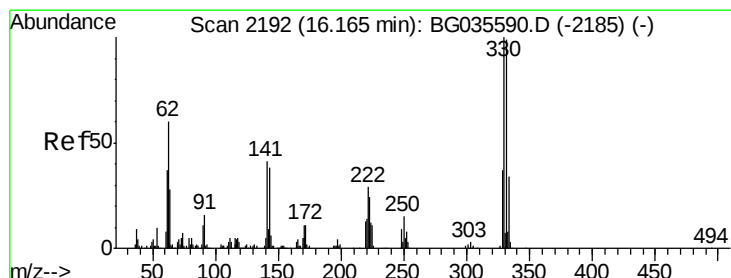
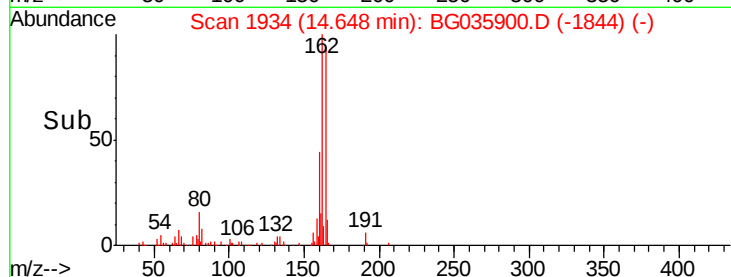
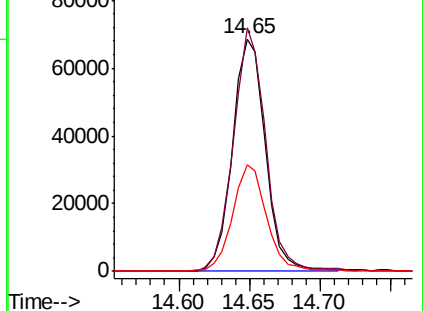
160 46.1 35.4 53.0



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: 107.624 ng

RT: 16.13 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

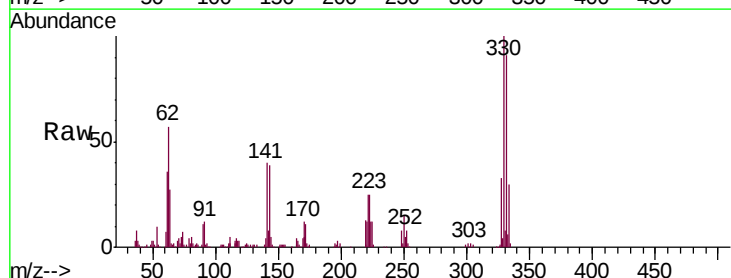
Tgt Ion:330 Resp: 157130

Ion Ratio Lower Upper

330 100

332 94.9 77.0 115.6

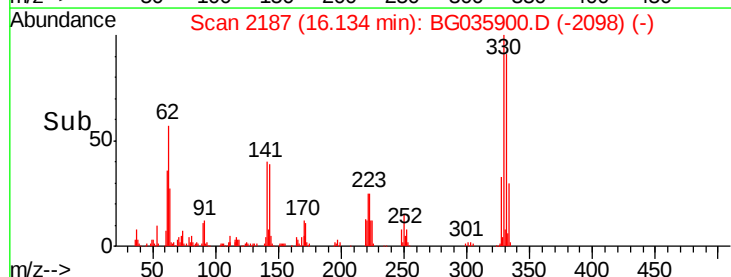
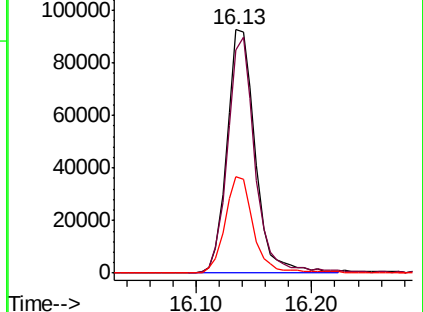
141 40.2 25.2 37.8#

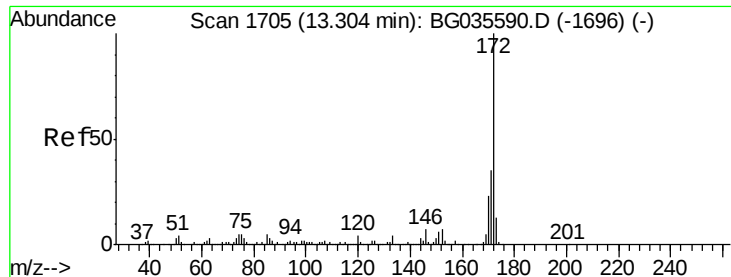


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 96.689 ng

RT: 13.27 min Scan# 1700

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Instrument :

BNA\_G

ClientSampleId :

071918-DBRI-E-U-S

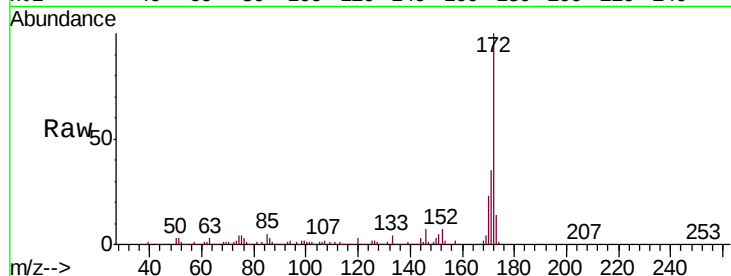
Tgt Ion:172 Resp: 799414

Ion Ratio Lower Upper

172 100

171 35.2 30.0 45.0

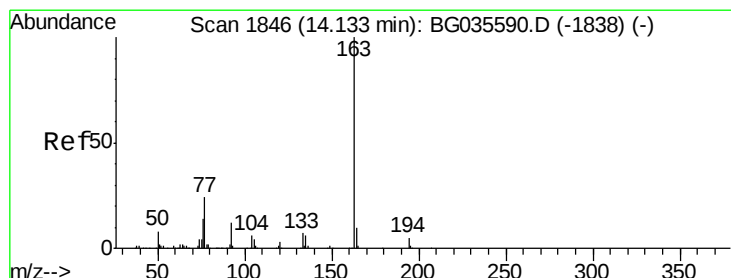
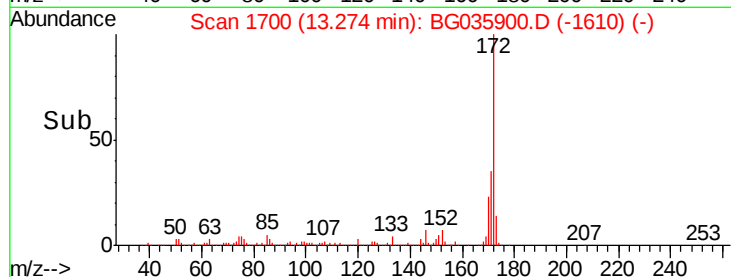
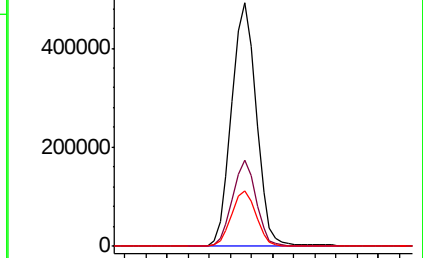
170 22.7 19.5 29.3



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



#49

Dimethylphthalate

Concen: 3.422 ng

RT: 14.10 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

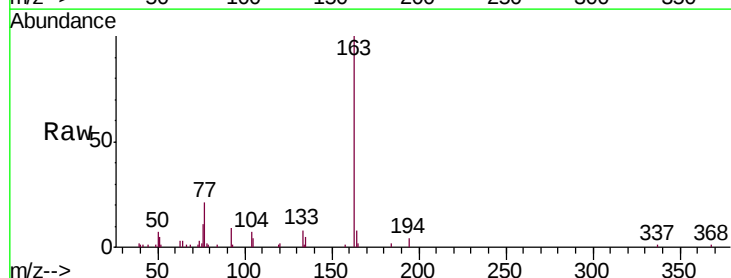
Tgt Ion:163 Resp: 33208

Ion Ratio Lower Upper

163 100

194 3.5 3.4 5.2

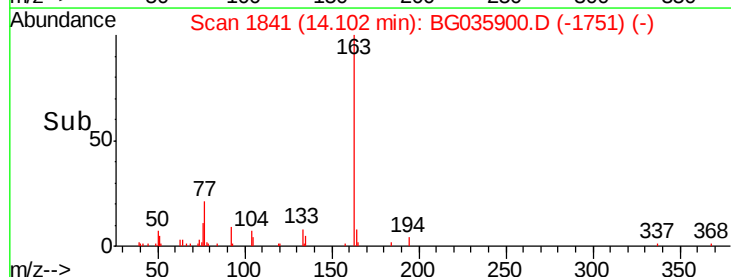
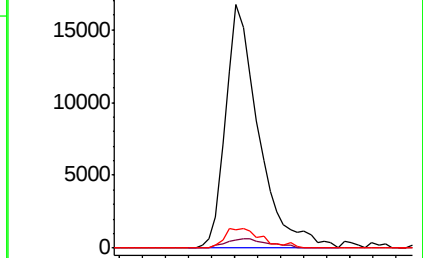
164 7.7 8.2 12.4#

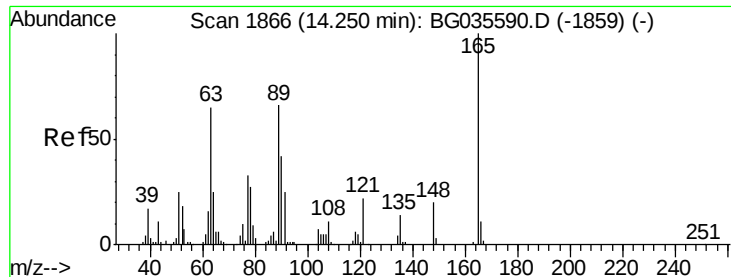


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

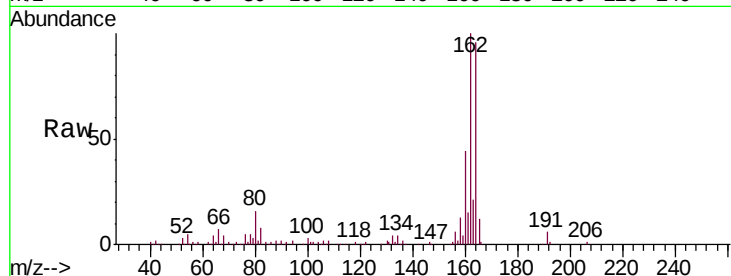




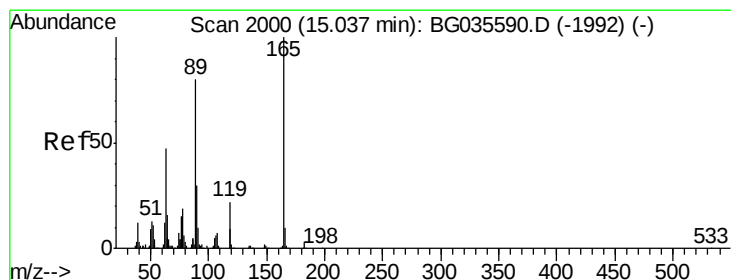
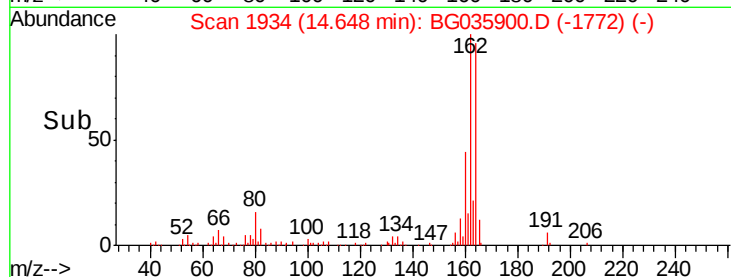
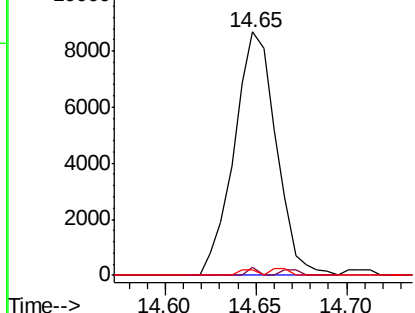
#50  
 2,6-Dinitrotoluene  
 Concen: 7.075 ng  
 RT: 14.65 min Scan# 1934  
 Delta R.T. 0.42 min  
 Lab File: BG035900.D  
 Acq: 26 Jul 2018 8:48

Instrument :  
 BNA\_G  
 ClientSampleId :  
 071918-DBRI-E-U-S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.2   | 52.7  | 79.1# |
| 89      | 2.2   | 49.2  | 73.8# |



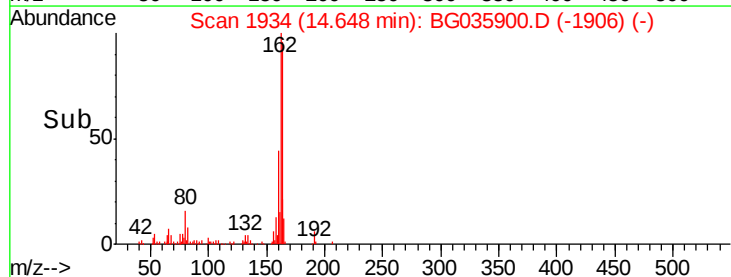
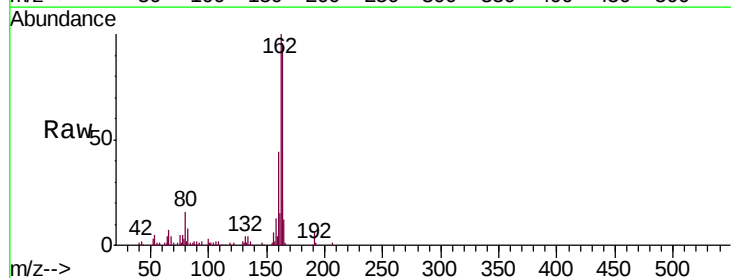
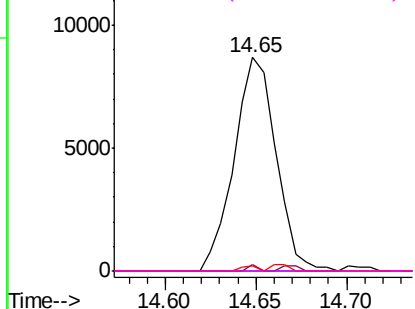
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

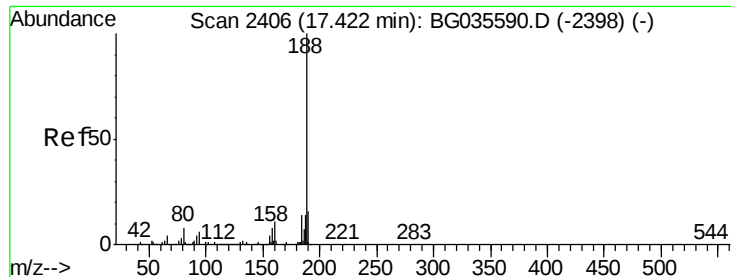


#56  
 2,4-Dinitrotoluene  
 Concen: 4.931 ng  
 RT: 14.65 min Scan# 1934  
 Delta R.T. -0.37 min  
 Lab File: BG035900.D  
 Acq: 26 Jul 2018 8:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 3.2   | 42.0  | 63.0#  |
| 89      | 2.2   | 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

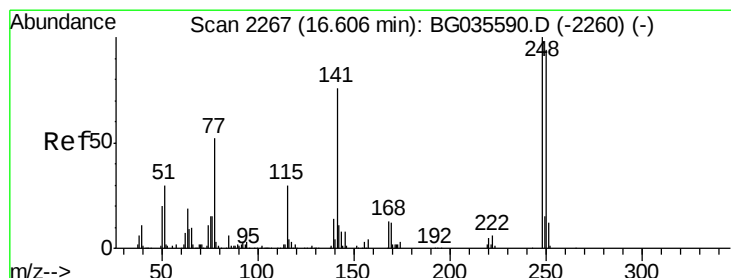
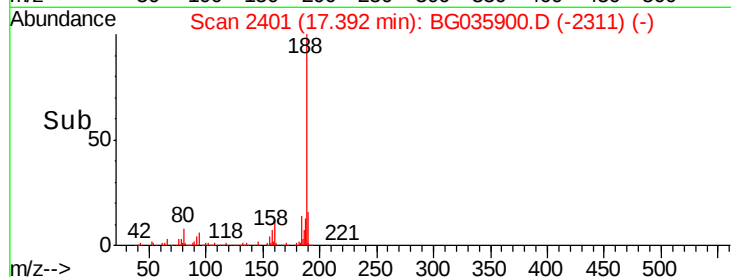
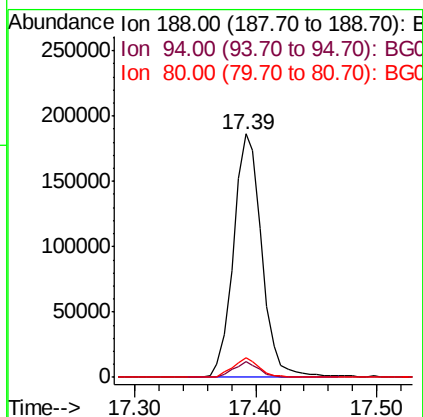
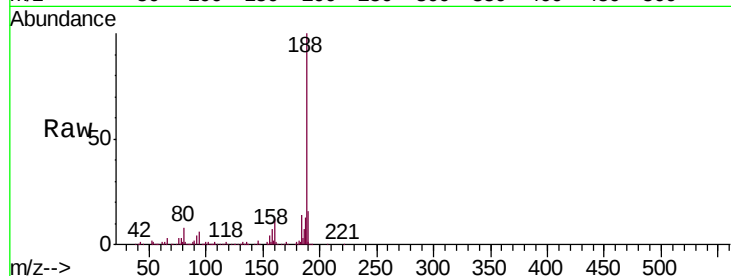




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.39 min Scan# 2401  
Delta R.T. -0.00 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

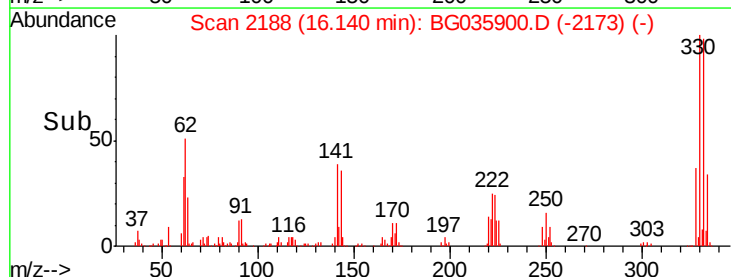
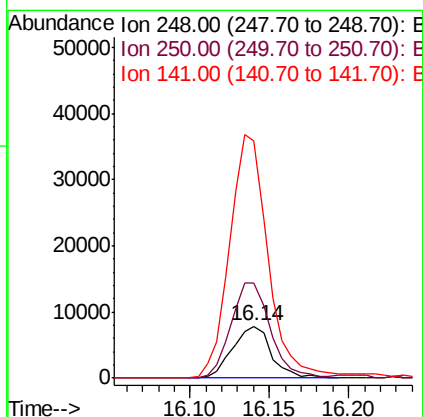
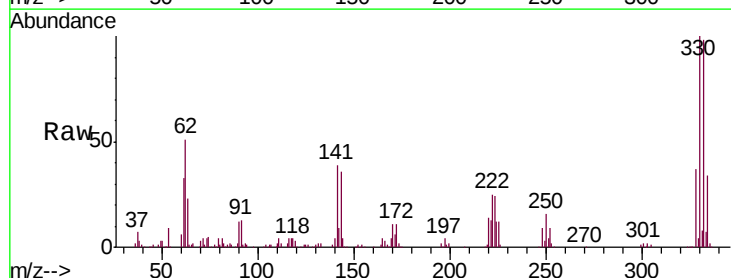
Instrument :  
BNA\_G  
ClientSampleId :  
071918-DBRI-E-U-S

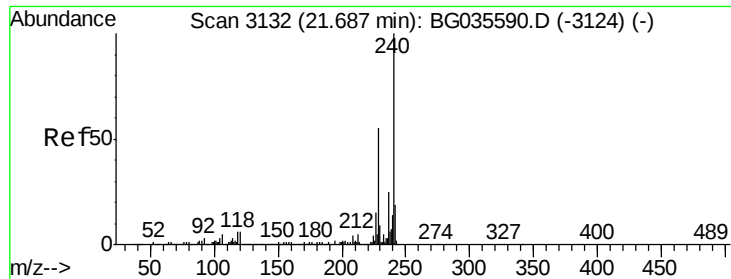
Tgt Ion:188 Resp: 303569  
Ion Ratio Lower Upper  
188 100  
94 6.4 6.9 10.3#  
80 8.1 7.7 11.5



#66  
4-Bromophenyl-phenylether  
Concen: 3.763 ng  
RT: 16.14 min Scan# 2188  
Delta R.T. -0.44 min  
Lab File: BG035900.D  
Acq: 26 Jul 2018 8:48

Tgt Ion:248 Resp: 13252  
Ion Ratio Lower Upper  
248 100  
250 184.6 77.1 115.7#  
141 457.3 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.66 min Scan# 3127

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Instrument :

BNA\_G

ClientSampleId :

071918-DBRI-E-U-S

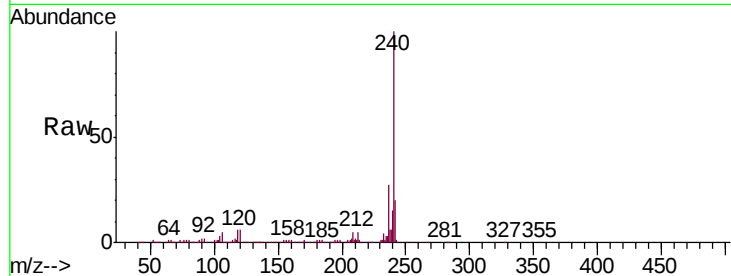
Tgt Ion:240 Resp: 321921

Ion Ratio Lower Upper

240 100

120 5.8 6.8 10.2#

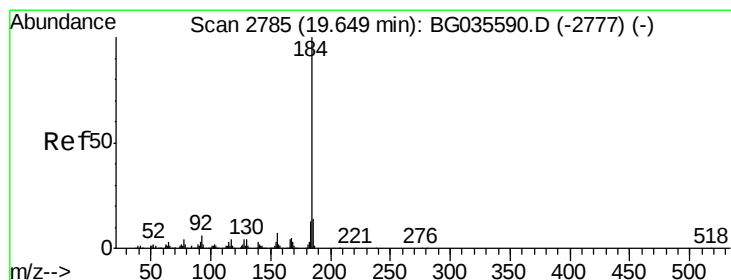
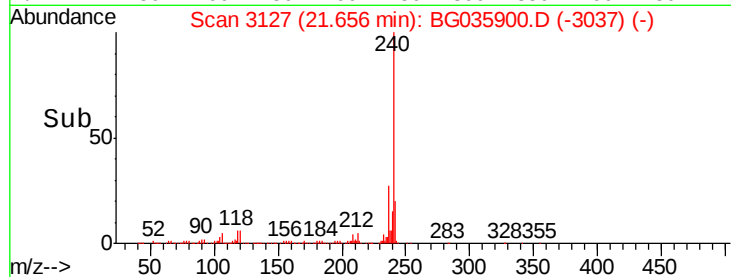
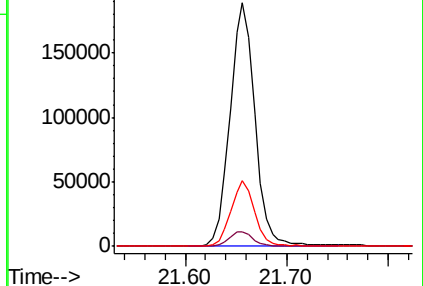
236 27.1 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.480 ng

RT: 20.00 min Scan# 2845

Delta R.T. 0.37 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

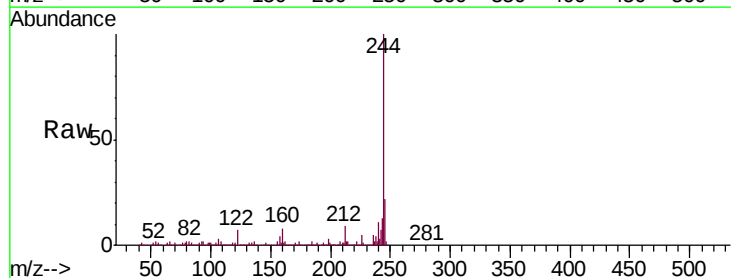
Tgt Ion:184 Resp: 20991

Ion Ratio Lower Upper

184 100

185 17.3 11.1 16.7#

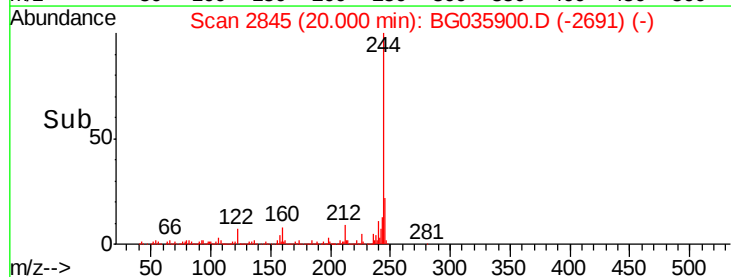
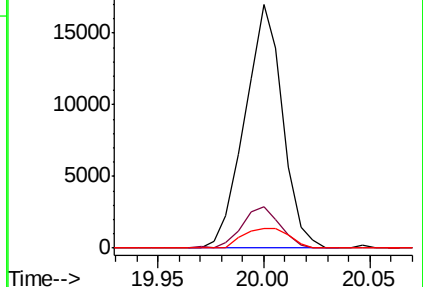
183 7.9 10.6 16.0#

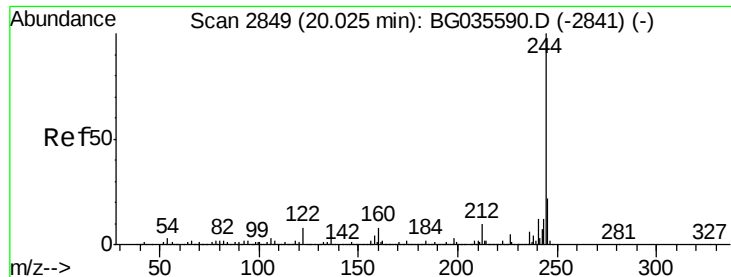


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 83.676 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

Instrument :

BNA\_G

ClientSampleId :

071918-DBRI-E-U-S

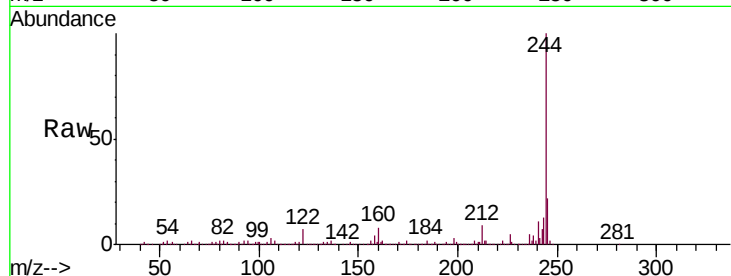
Tgt Ion:244 Resp: 1222017

Ion Ratio Lower Upper

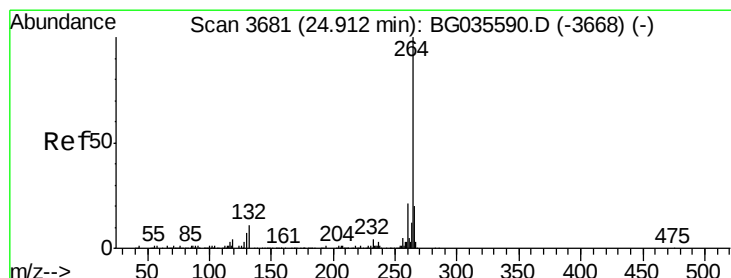
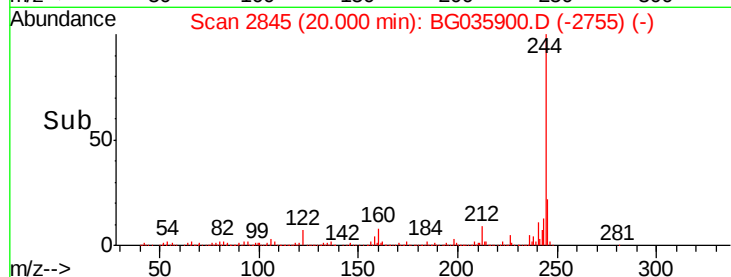
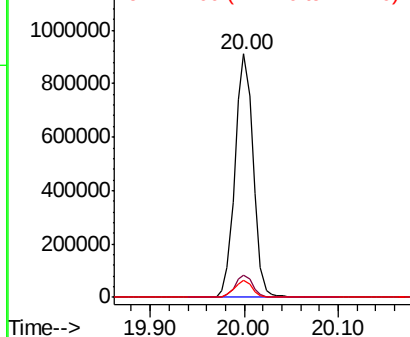
244 100

212 9.4 5.8 8.8#

122 7.0 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: 24.85 min Scan# 3671

Delta R.T. -0.01 min

Lab File: BG035900.D

Acq: 26 Jul 2018 8:48

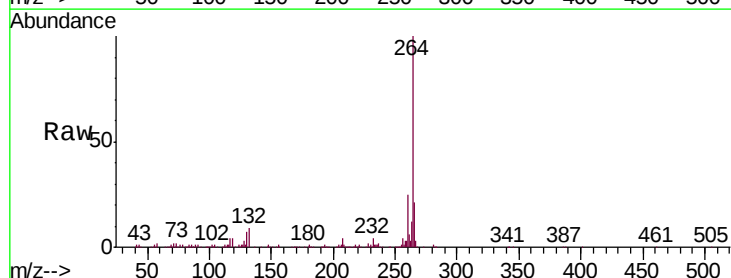
Tgt Ion:264 Resp: 307610

Ion Ratio Lower Upper

264 100

260 24.5 17.4 26.0

265 20.6 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

