

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040319\  
 Data File : BG040341.D  
 Acq On : 4 Apr 2019 1:11  
 Operator : JU/SJ  
 Sample : K2176-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW24S-GW

Quant Time: Apr 04 03:38:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 28 05:47:00 2019  
 Response via : Initial Calibration

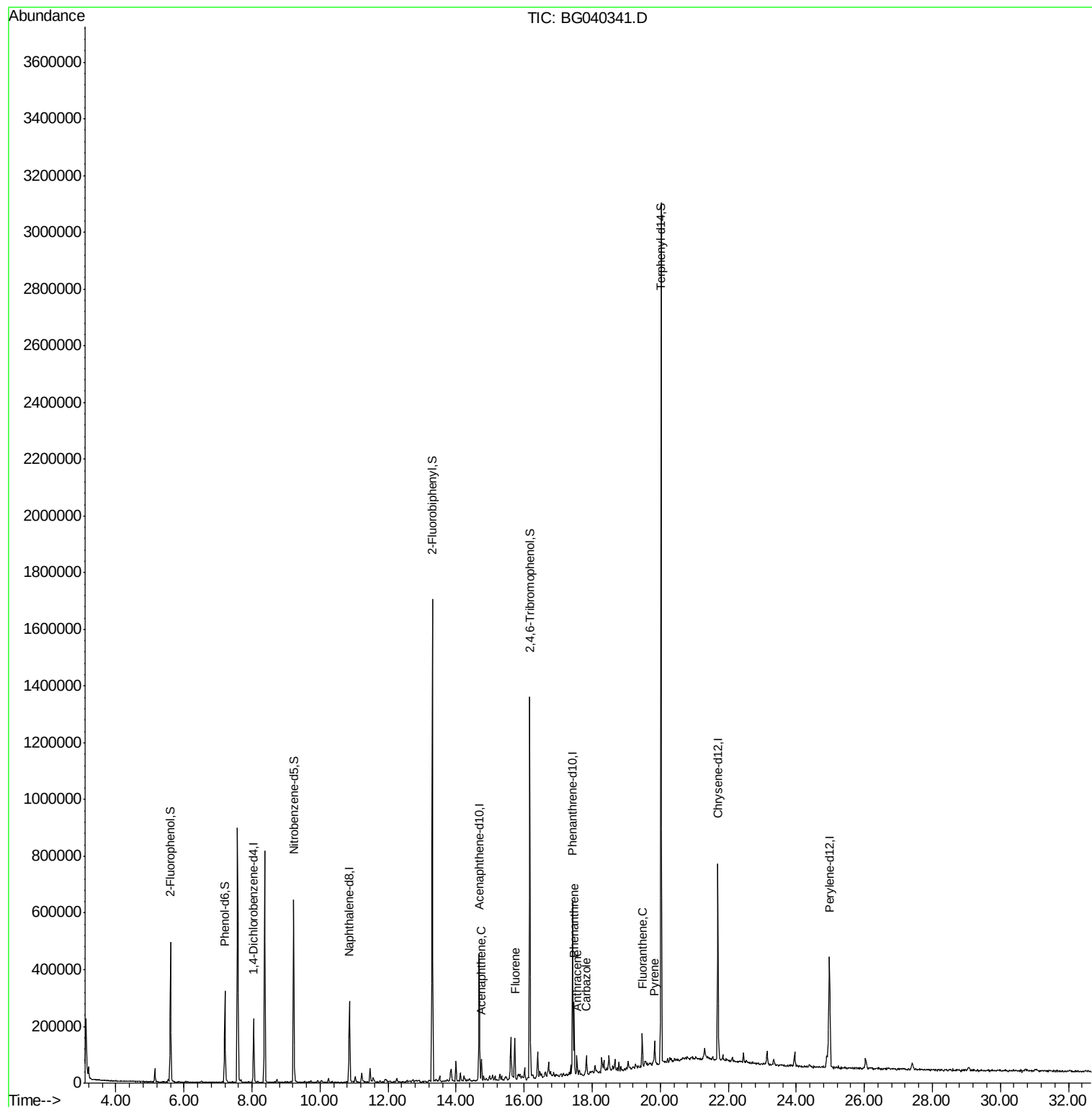
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.05  | 152  | 65687    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.86 | 136  | 254717   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.68 | 164  | 155834   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.42 | 188  | 367890   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12            | 21.69 | 240  | 398906   | 20.00  | ng    | -0.04    |
| 87) Perylene-d12            | 24.97 | 264  | 423103   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 226381   | 57.29  | ng    | -0.02    |
| 7) Phenol-d6                | 7.20  | 99   | 192527   | 35.26  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.22  | 82   | 402720   | 84.04  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.17 | 330  | 232064   | 137.79 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.30 | 172  | 893084   | 84.92  | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.03 | 244  | 1327341  | 74.86  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 52) Acenaphthene            | 14.74 | 154  | 28195    | 3.073  | ng    | 96       |
| 58) Fluorene                | 15.73 | 166  | 66516    | 5.738  | ng    | 97       |
| 71) Phenanthrene            | 17.46 | 178  | 160077   | 8.278  | ng    | 99       |
| 72) Anthracene              | 17.55 | 178  | 44321    | 2.290  | ng    | 98       |
| 73) Carbazole               | 17.83 | 167  | 40686    | 2.221  | ng    | 96       |
| 75) Fluoranthene            | 19.47 | 202  | 79255    | 3.461  | ng    | 95       |
| 78) Pyrene                  | 19.83 | 202  | 52590    | 2.005  | ng    | 99       |

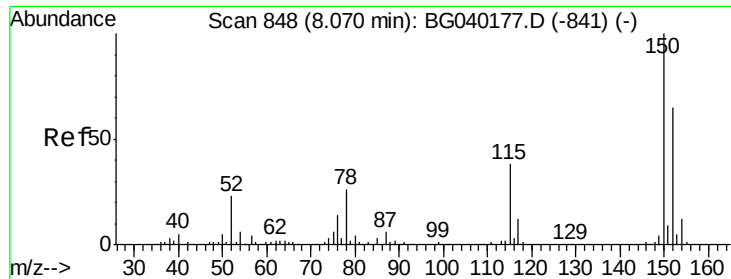
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.05 min Scan# 845

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

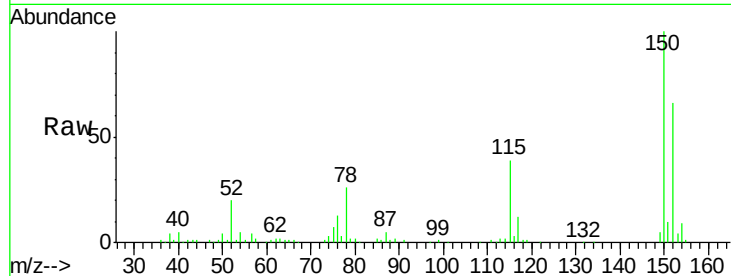
Tgt Ion:152 Resp: 65687

Ion Ratio Lower Upper

152 100

150 151.5 123.7 185.5

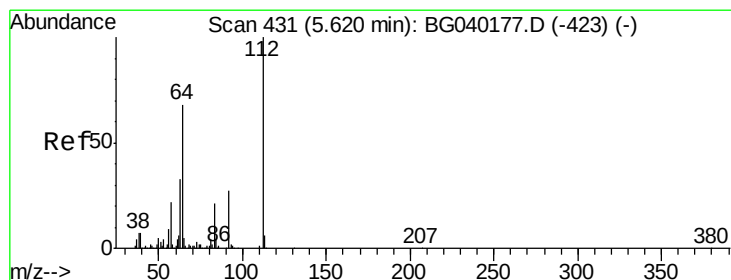
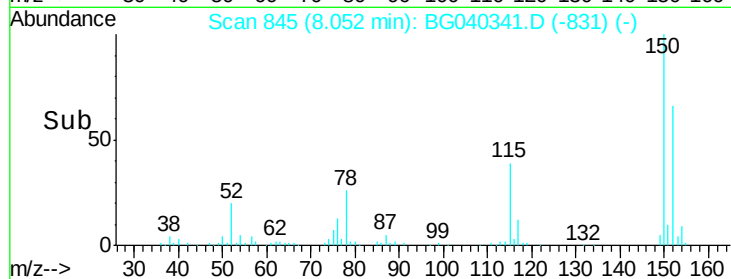
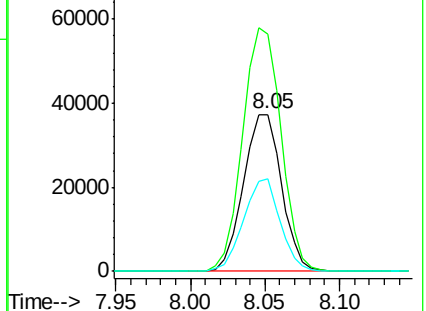
115 58.7 46.9 70.3



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: 57.293 ng

RT: 5.60 min Scan# 428

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

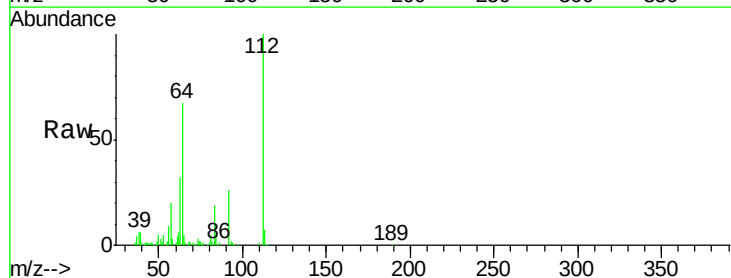
Tgt Ion:112 Resp: 226381

Ion Ratio Lower Upper

112 100

64 66.9 54.2 81.2

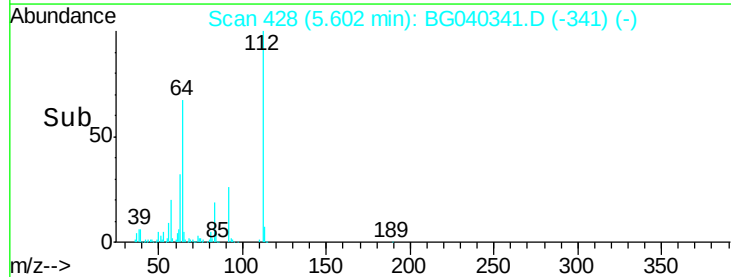
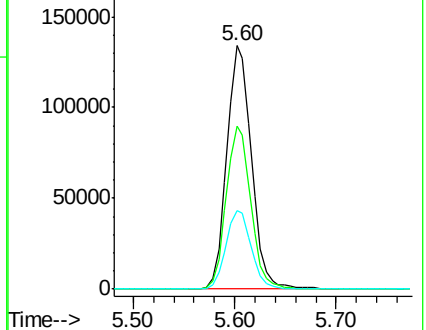
63 32.4 26.4 39.6

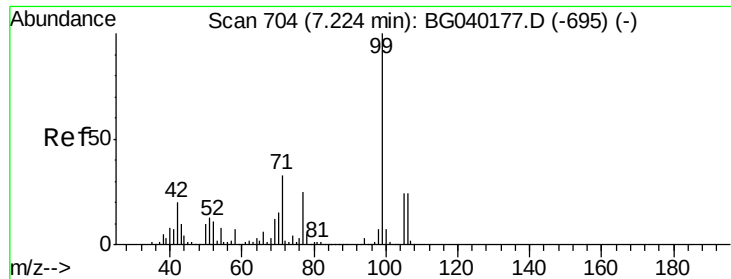


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 35.256 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

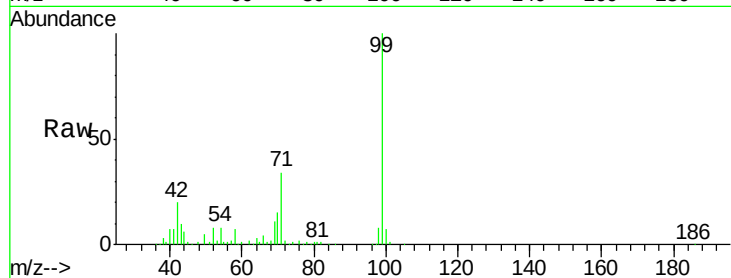
Tgt Ion: 99 Resp: 192527

Ion Ratio Lower Upper

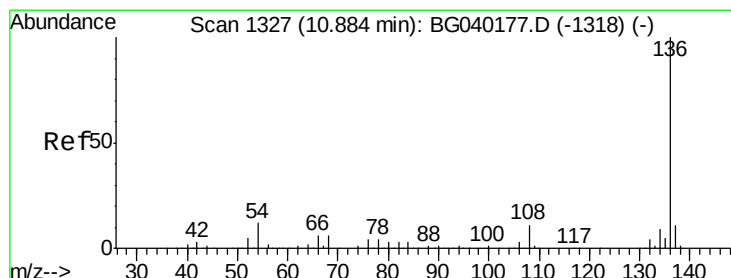
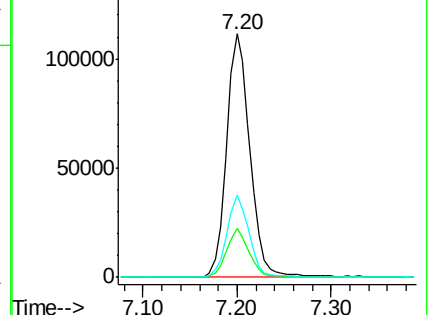
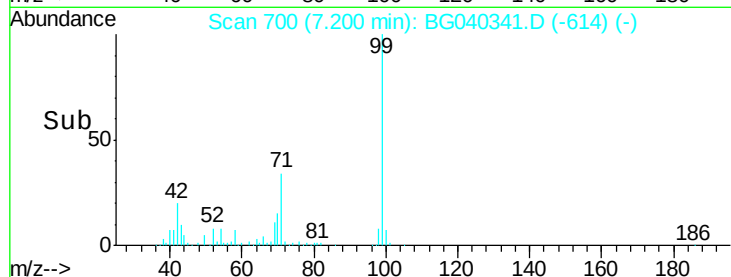
99 100

42 20.3 16.2 24.2

71 33.8 26.8 40.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.86 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Tgt Ion: 136 Resp: 254717

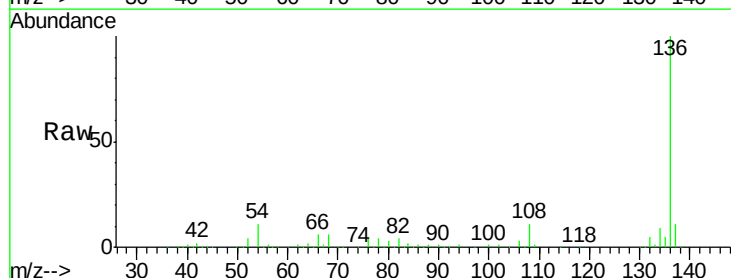
Ion Ratio Lower Upper

136 100

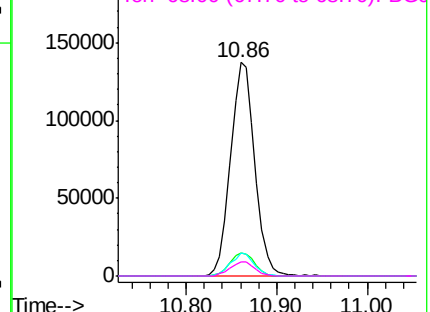
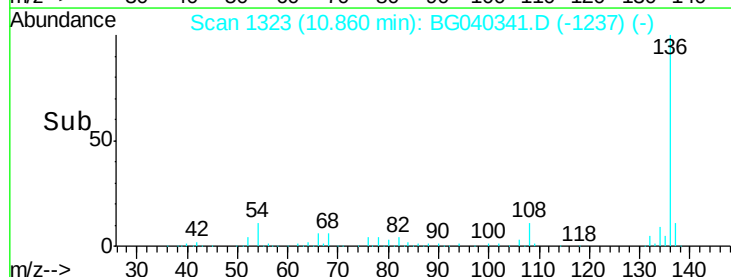
137 10.5 8.9 13.3

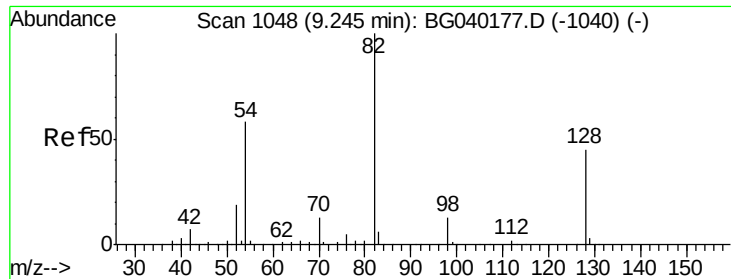
54 11.0 9.6 14.4

68 6.4 5.1 7.7



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

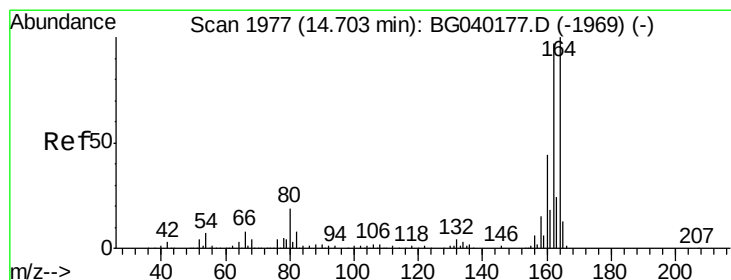
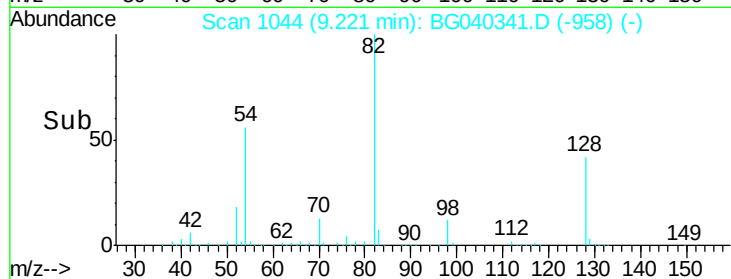
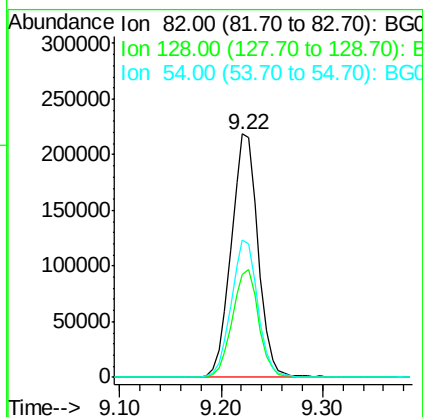
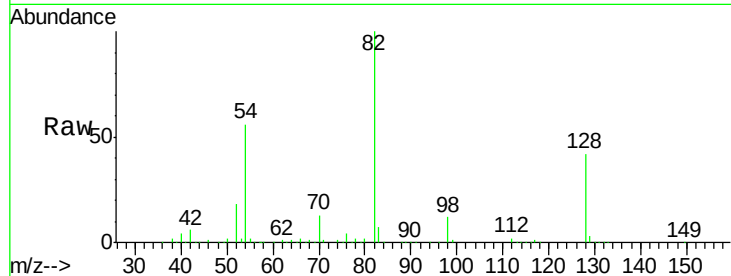




#23  
 Nitrobenzene-d5  
 Concen: 84.038 ng  
 RT: 9.22 min Scan# 1044  
 Delta R.T. -0.02 min  
 Lab File: BG040341.D  
 Acq: 4 Apr 2019 1:11

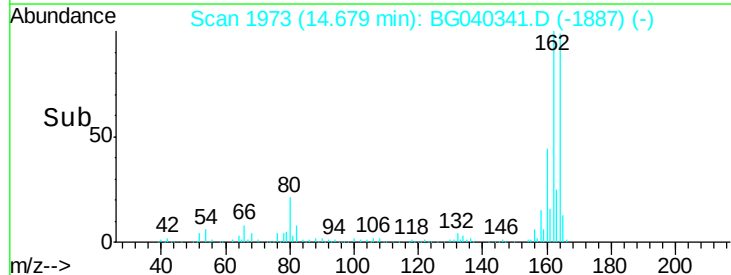
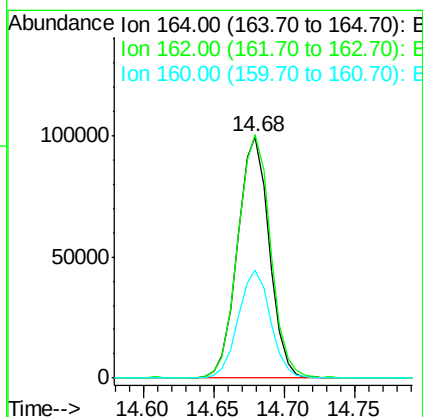
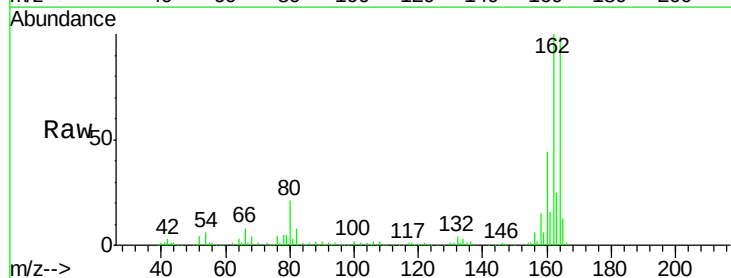
Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW24S-GW

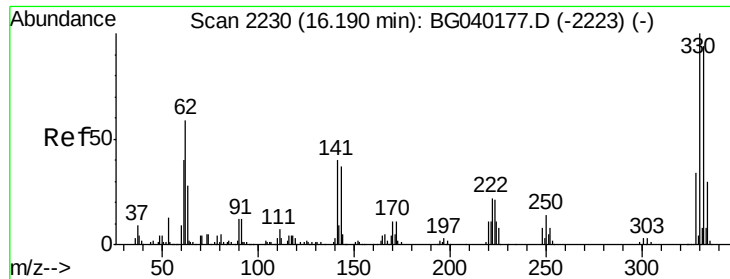
Tgt Ion: 82 Resp: 402720  
 Ion Ratio Lower Upper  
 82 100  
 128 42.3 35.8 53.8  
 54 56.3 46.2 69.2



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.68 min Scan# 1973  
 Delta R.T. -0.02 min  
 Lab File: BG040341.D  
 Acq: 4 Apr 2019 1:11

Tgt Ion: 164 Resp: 155834  
 Ion Ratio Lower Upper  
 164 100  
 162 100.9 77.4 116.2  
 160 44.8 35.3 52.9

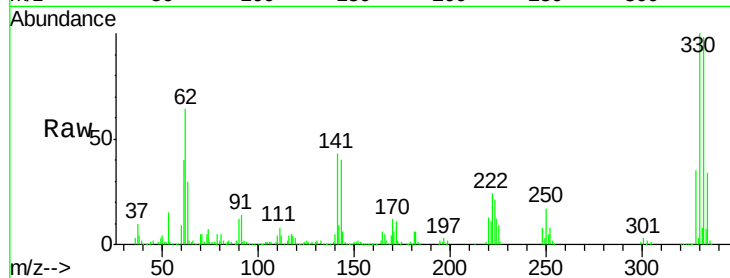




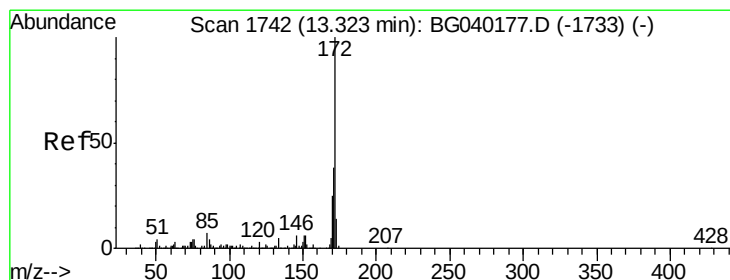
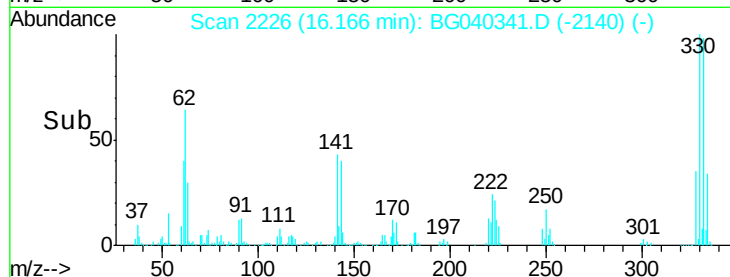
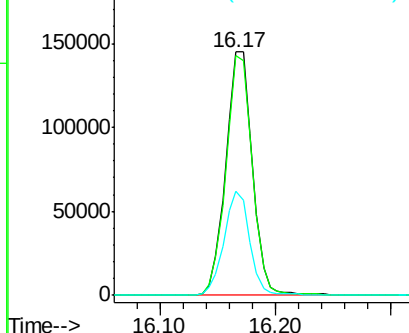
#42  
 2,4,6-Tribromophenol  
 Concen: 137.792 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.02 min  
 Lab File: BG040341.D  
 Acq: 4 Apr 2019 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 QNWP8-MW24S-GW

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 76.6  | 115.0 |
| 141     | 41.1  | 32.6  | 48.8  |

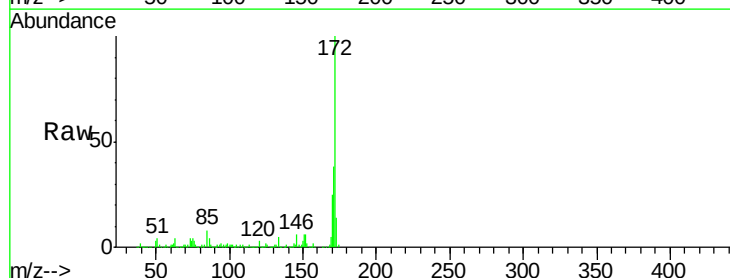


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

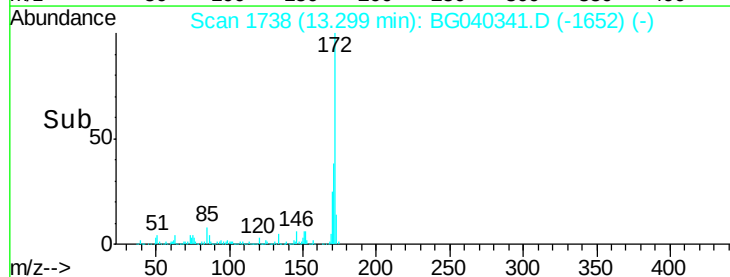
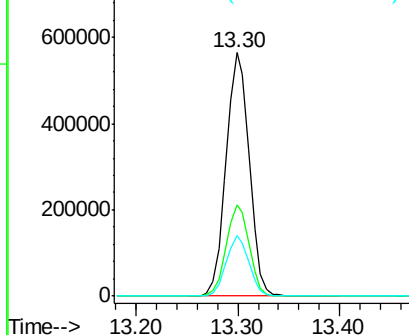


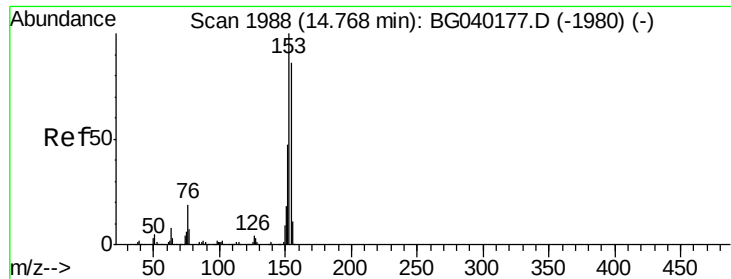
#45  
 2-Fluorobiphenyl  
 Concen: 84.920 ng  
 RT: 13.30 min Scan# 1738  
 Delta R.T. -0.02 min  
 Lab File: BG040341.D  
 Acq: 4 Apr 2019 1:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.7  | 30.5  | 45.7  |
| 170     | 24.9  | 20.1  | 30.1  |



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





#52

Acenaphthene

Concen: 3.073 ng

RT: 14.74 min Scan# 1984

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

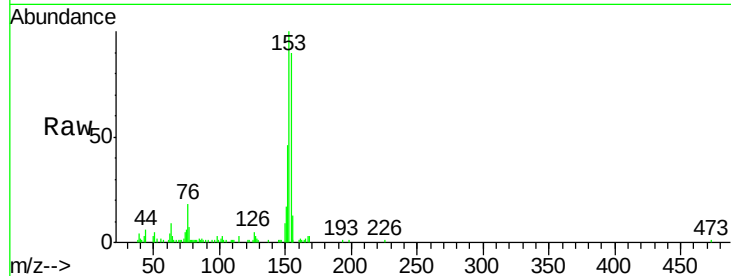
Tgt Ion:154 Resp: 28195

Ion Ratio Lower Upper

154 100

153 111.7 92.8 139.2

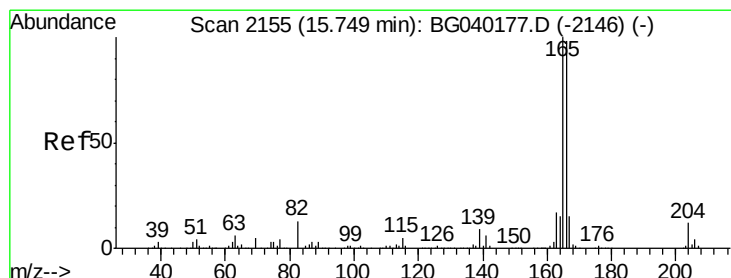
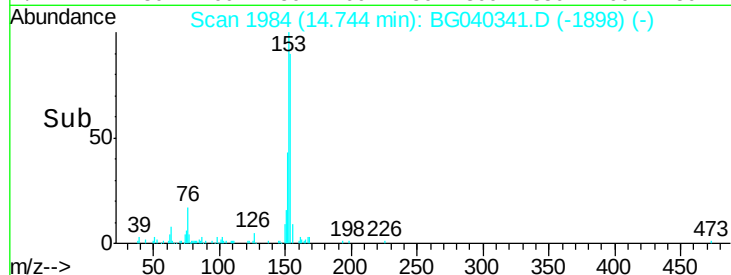
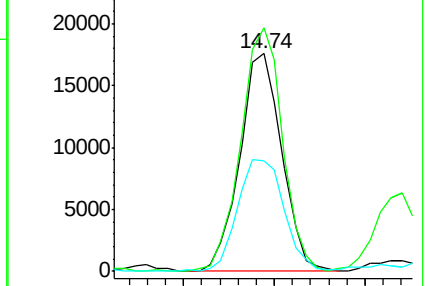
152 50.9 43.4 65.2



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



#58

Fluorene

Concen: 5.738 ng

RT: 15.73 min Scan# 2151

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

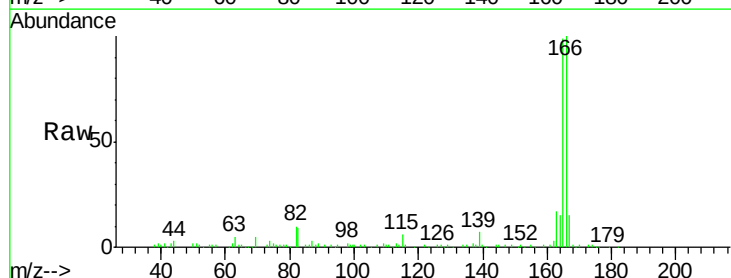
Tgt Ion:166 Resp: 66516

Ion Ratio Lower Upper

166 100

165 99.2 81.7 122.5

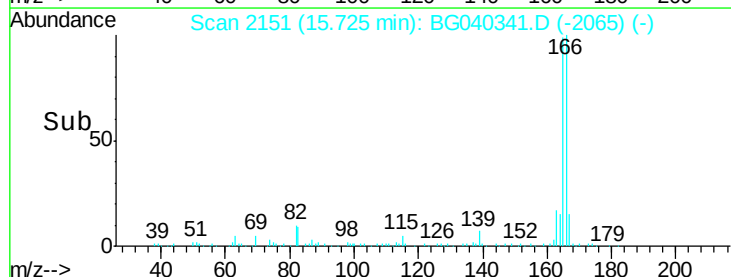
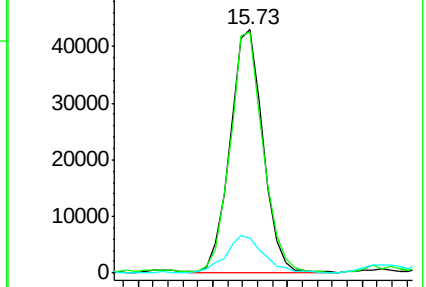
167 14.6 11.9 17.9

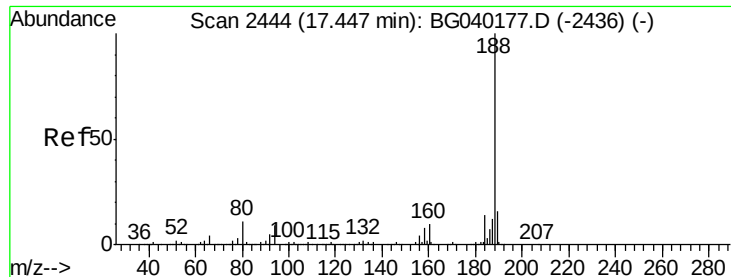


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2440

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

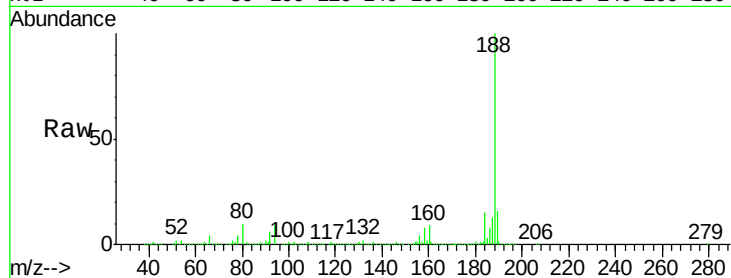
Tgt Ion:188 Resp: 367890

Ion Ratio Lower Upper

188 100

94 9.0 7.0 10.4

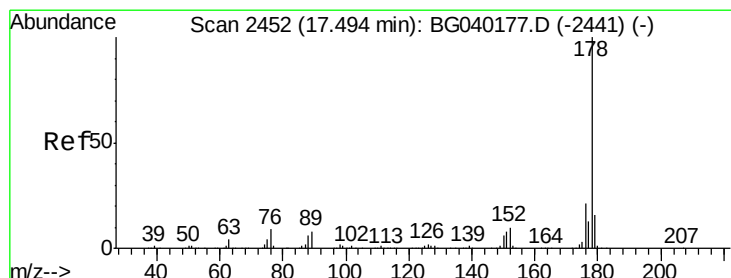
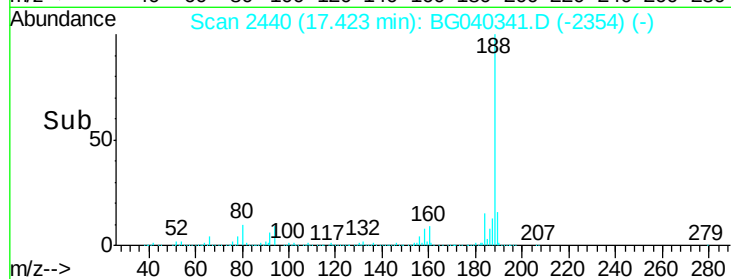
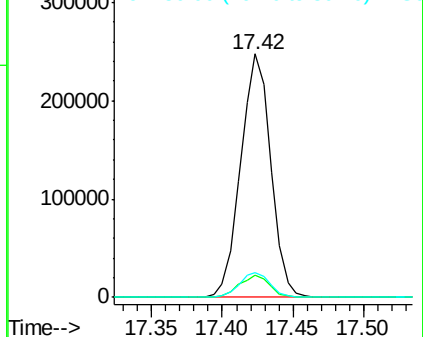
80 10.3 8.6 13.0



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



#71

Phenanthrene

Concen: 8.278 ng

RT: 17.46 min Scan# 2447

Delta R.T. -0.03 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

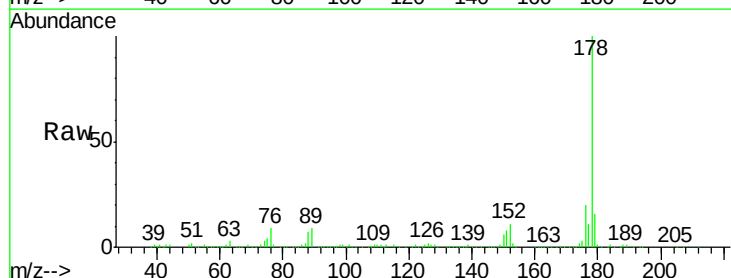
Tgt Ion:178 Resp: 160077

Ion Ratio Lower Upper

178 100

176 20.4 16.7 25.1

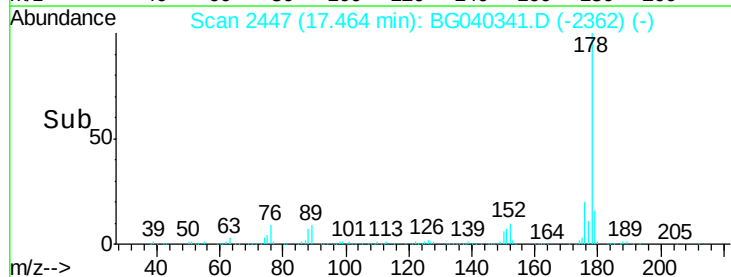
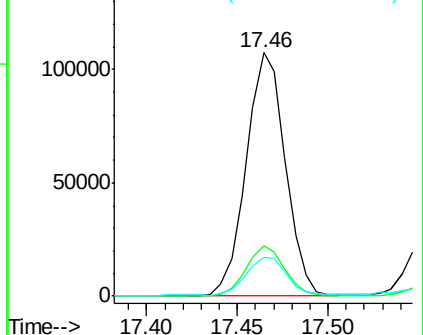
179 15.7 12.8 19.2



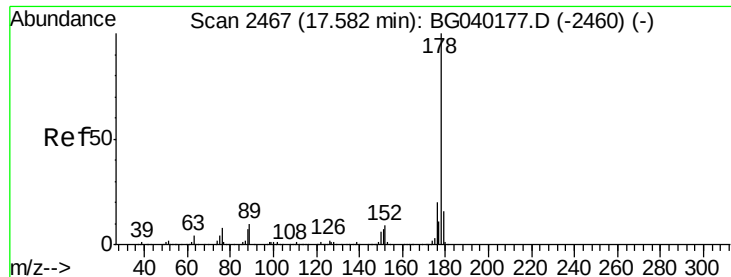
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#72

Anthracene

Concen: 2.290 ng

RT: 17.55 min Scan# 2462

Delta R.T. -0.03 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

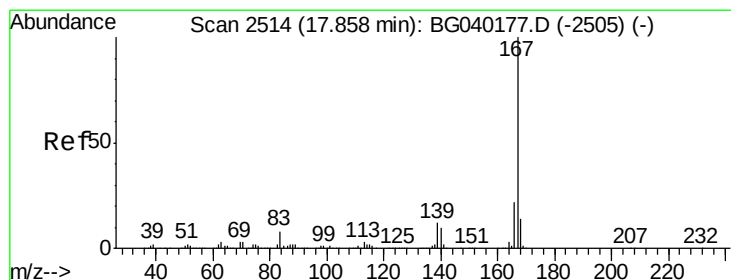
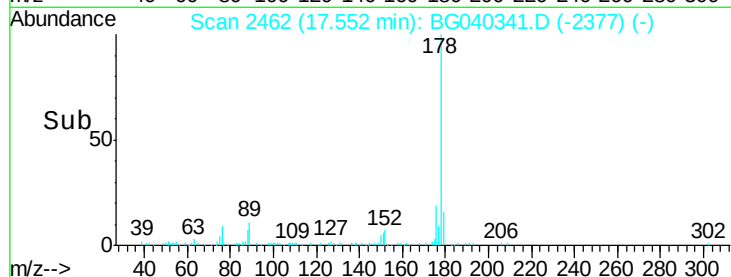
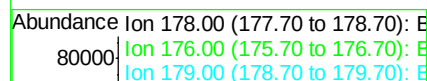
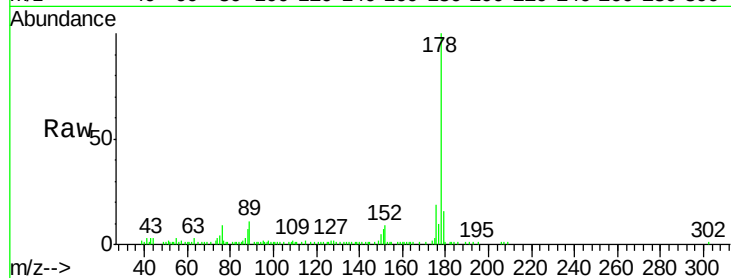
Tgt Ion:178 Resp: 44321

Ion Ratio Lower Upper

178 100

176 18.6 15.9 23.9

179 16.4 12.9 19.3



#73

Carbazole

Concen: 2.221 ng

RT: 17.83 min Scan# 2510

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

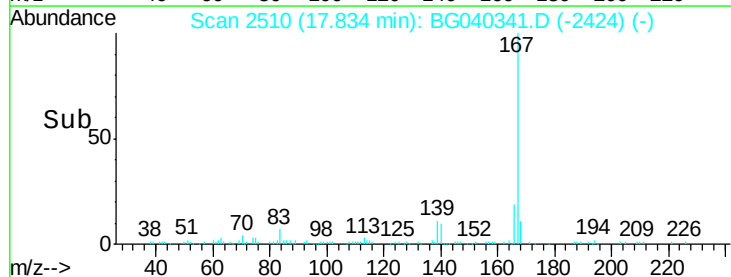
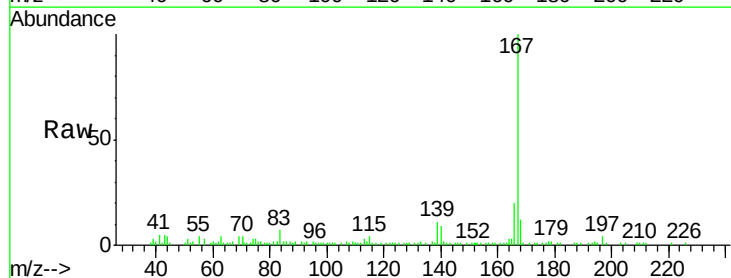
Tgt Ion:167 Resp: 40686

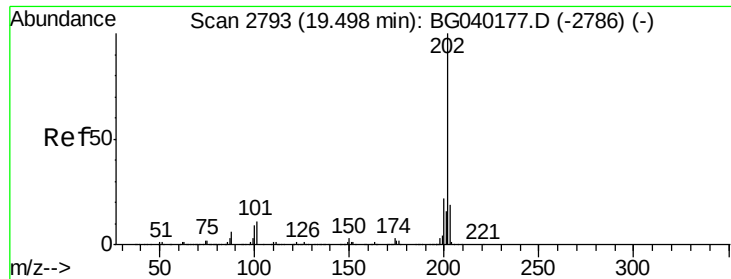
Ion Ratio Lower Upper

167 100

166 20.1 17.5 26.3

139 11.1 10.0 15.0





#75

Fluoranthene

Concen: 3.461 ng

RT: 19.47 min Scan# 2789

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

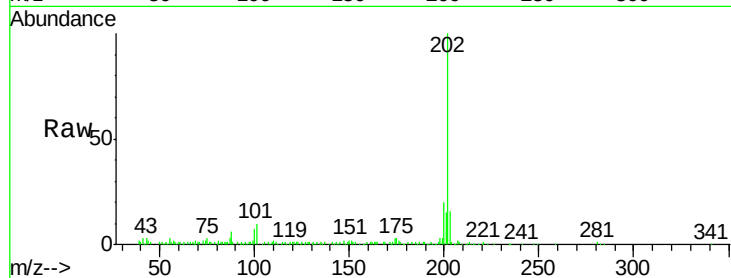
Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

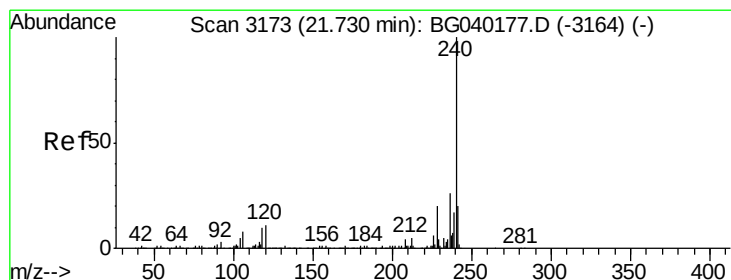
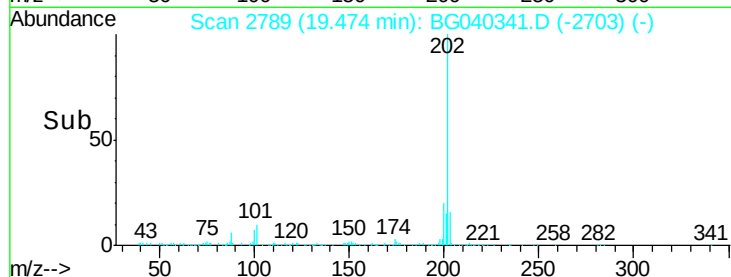
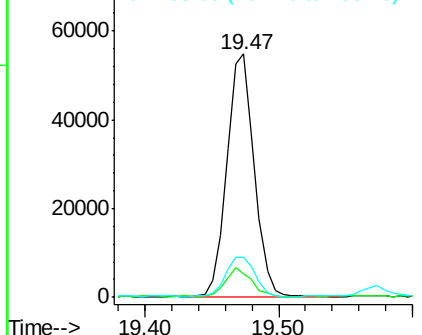
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 79255 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.7   | 0.0   | 30.8  |
| 203      | 16.3  | 0.0   | 38.9  |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

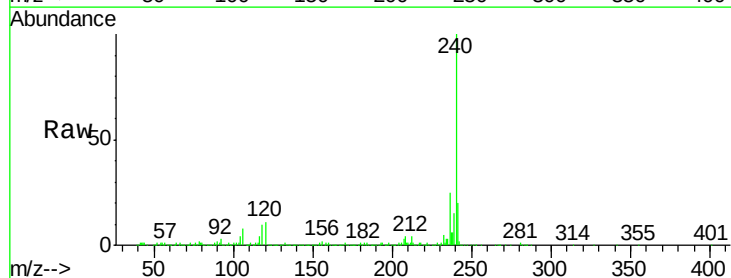
RT: 21.69 min Scan# 3167

Delta R.T. -0.04 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

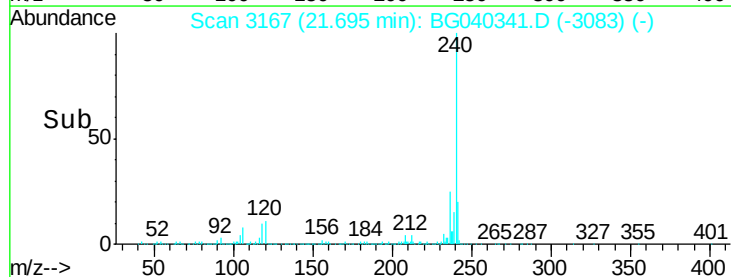
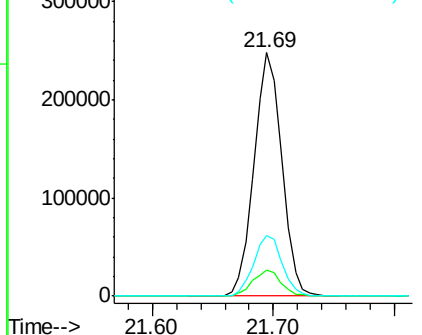
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 398906 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 10.9  | 8.4   | 12.6   |
| 236      | 25.1  | 20.8  | 31.2   |

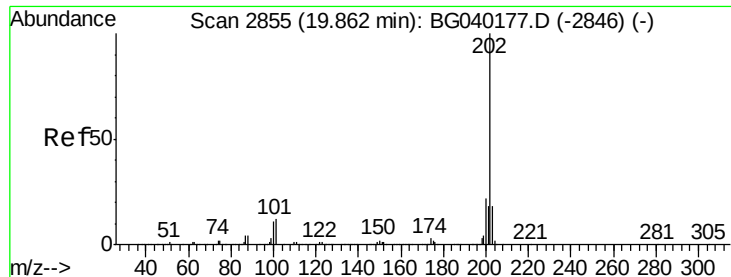


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 2.005 ng

RT: 19.83 min Scan# 2850

Delta R.T. -0.03 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

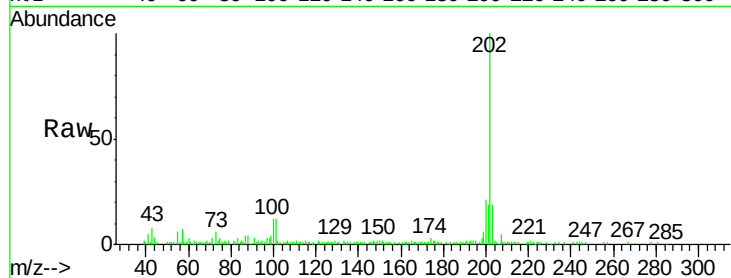
Tgt Ion:202 Resp: 52590

Ion Ratio Lower Upper

202 100

200 21.4 17.3 25.9

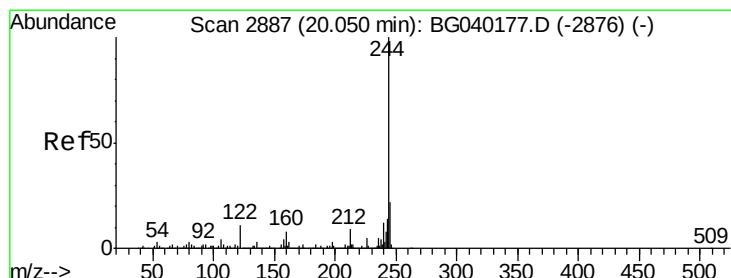
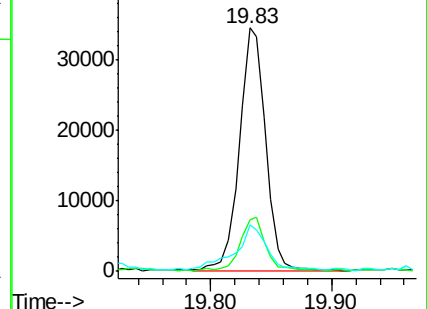
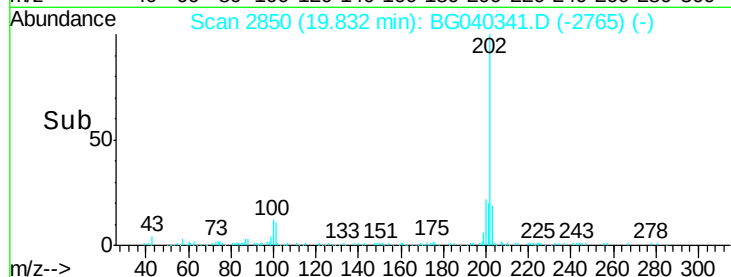
203 18.9 14.6 22.0



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



#79

Terphenyl-d14

Concen: 74.856 ng

RT: 20.03 min Scan# 2883

Delta R.T. -0.02 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

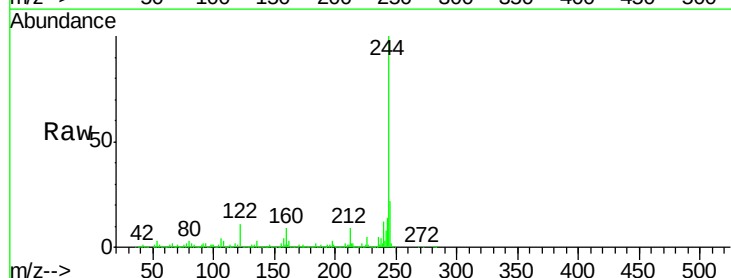
Tgt Ion:244 Resp: 1327341

Ion Ratio Lower Upper

244 100

212 8.9 7.0 10.6

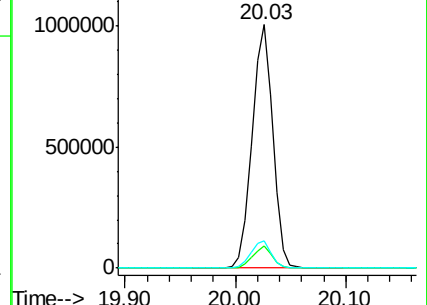
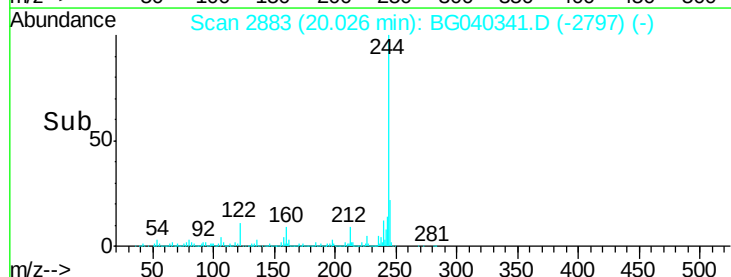
122 11.4 8.5 12.7

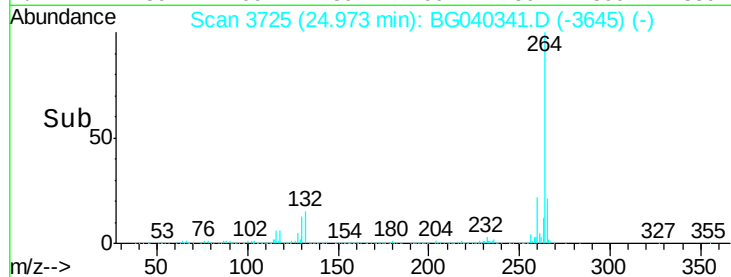
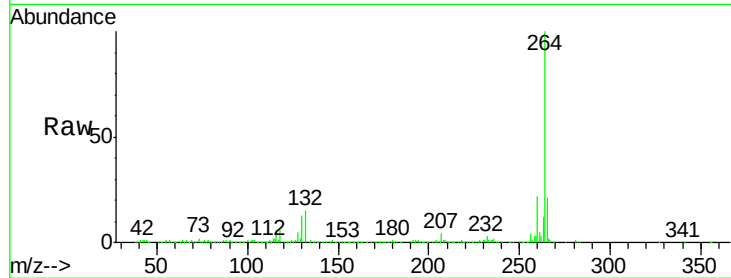
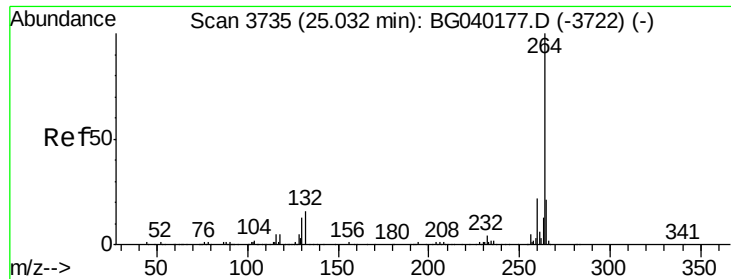


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 24.97 min Scan# 3725

Delta R.T. -0.06 min

Lab File: BG040341.D

Acq: 4 Apr 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

QNWP8-MW24S-GW

Tgt Ion: 264 Resp: 423103

Ion Ratio Lower Upper

264 100

260 22.3 17.9 26.9

265 21.1 16.8 25.2

