

Data Path : Z:\HPCHEM1\BNA G\Data\BG042116\RAW\  
 Data File : BG021785.D  
 Acq On : 20 Apr 2016 15:05  
 Operator : UM/SJ  
 Sample : H2589-15  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 20 16:08:46 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 13 15:48:13 2016  
 Response via : Initial Calibration

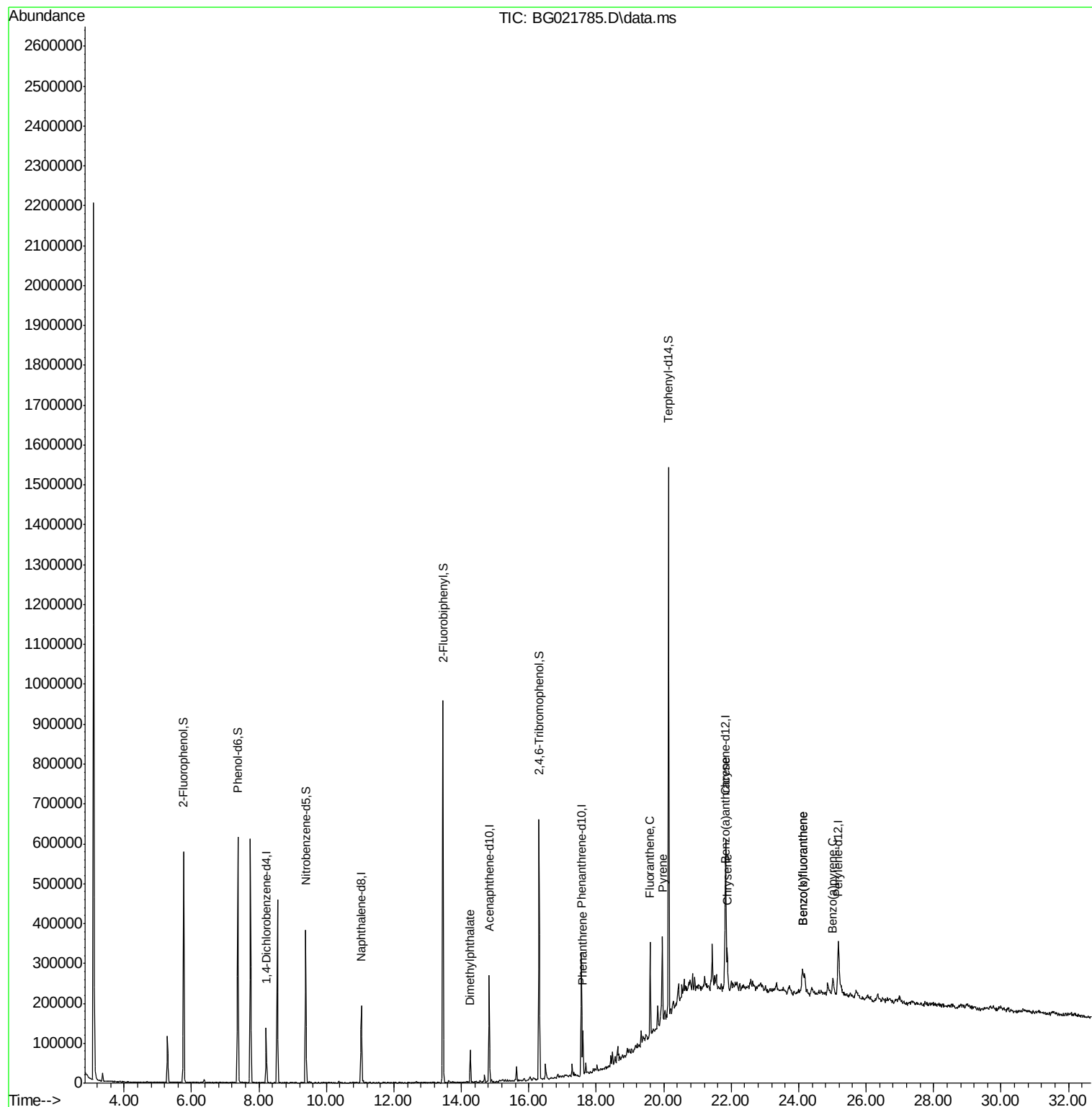
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|--------|------|----------|--------|-------|----------------|
| -----                       |        |      |          |        |       |                |
| Internal Standards          |        |      |          |        |       |                |
| 1) 1,4-Dichlorobenzene-d4   | 8.215  | 152  | 38891    | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8          | 11.035 | 136  | 169673   | 20.00  | ng    | 0.00           |
| 38) Acenaphthene-d10        | 14.824 | 164  | 91794    | 20.00  | ng    | 0.00           |
| 63) Phenanthrene-d10        | 17.562 | 188  | 188469   | 20.00  | ng    | 0.00           |
| 75) Chrysene-d12            | 21.834 | 240  | 210143   | 20.00  | ng    | 0.00           |
| 86) Perylene-d12            | 25.177 | 264  | 177296   | 20.00  | ng    | 0.01           |
| System Monitoring Compounds |        |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.764  | 112  | 258406   | 110.65 | ng    | 0.00           |
| 7) Phenol-d6                | 7.374  | 99   | 376980   | 108.06 | ng    | 0.02           |
| 23) Nitrobenzene-d5         | 9.384  | 82   | 242019   | 73.32  | ng    | 0.00           |
| 41) 2,4,6-Tribromophenol    | 16.305 | 330  | 117242   | 118.51 | ng    | 0.00           |
| 44) 2-Fluorobiphenyl        | 13.455 | 172  | 508143   | 81.11  | ng    | 0.00           |
| 78) Terphenyl-d14           | 20.148 | 244  | 580253   | 68.90  | ng    | 0.00           |
| Target Compounds            |        |      |          |        |       |                |
| 49) Dimethylphthalate       | 14.266 | 163  | 55316    | 6.97   | ng    | Qvalue<br># 99 |
| 70) Phenanthrene            | 17.604 | 178  | 66961    | 6.45   | ng    | 98             |
| 74) Fluoranthene            | 19.595 | 202  | 150371   | 12.12  | ng    | 100            |
| 77) Pyrene                  | 19.960 | 202  | 135446   | 11.18  | ng    | 100            |
| 80) Benzo(a)anthracene      | 21.816 | 228  | 85867    | 7.10   | ng    | 96             |
| 82) Chrysene                | 21.887 | 228  | 69916    | 6.02   | ng    | 97             |
| 87) Benzo(b)fluoranthene    | 24.119 | 252  | 76241    | 7.41   | ng    | # 91           |
| 88) Benzo(k)fluoranthene    | 24.119 | 252  | 76241    | 7.58   | ng    | # 92           |
| 89) Benzo(a)pyrene          | 25.013 | 252  | 56460    | 5.66   | ng    | # 87           |
| -----                       |        |      |          |        |       |                |

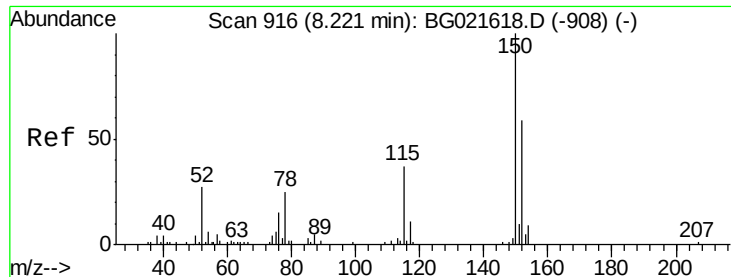
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.215 min Scan# 91

Delta R.T. -0.007 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

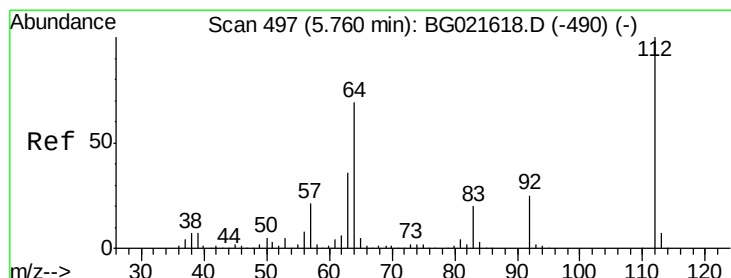
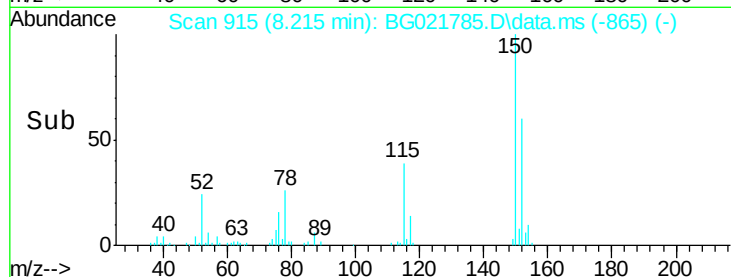
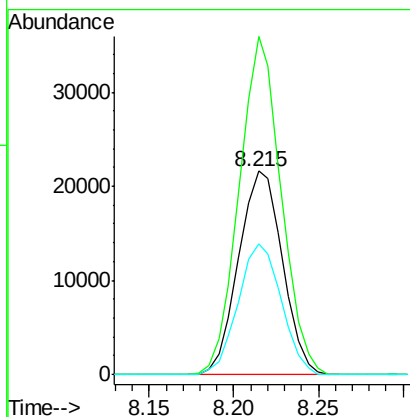
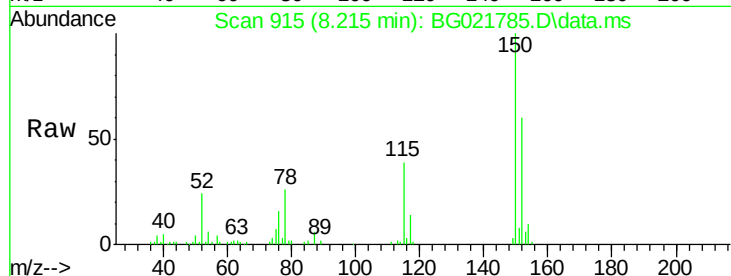
Tot Ion:152 Resp: 38891

Ion Ratio Lower Upper

152 100

150 166.5 130.1 195.1

115 64.7 62.2 93.2



#5

2-Fluorophenol

Concen: 110.65 ng

RT: 5.764 min Scan# 498

Delta R.T. 0.005 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

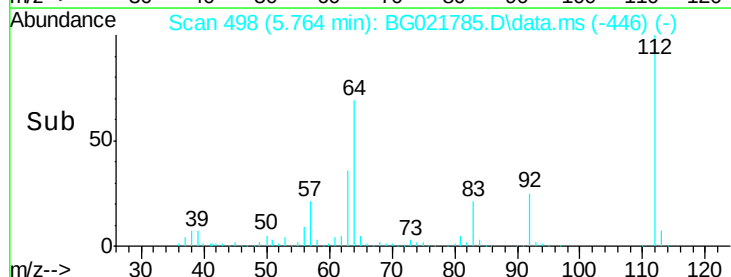
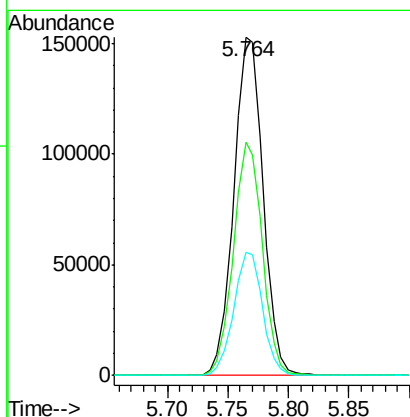
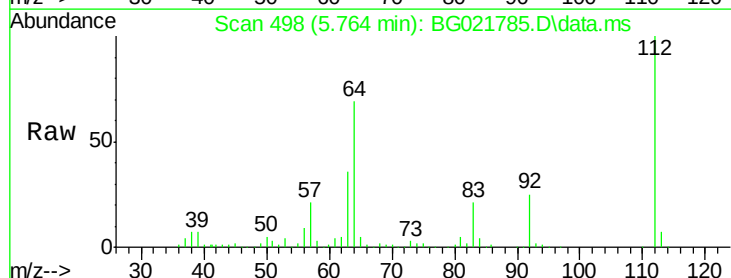
Tgt Ion:112 Resp: 258406

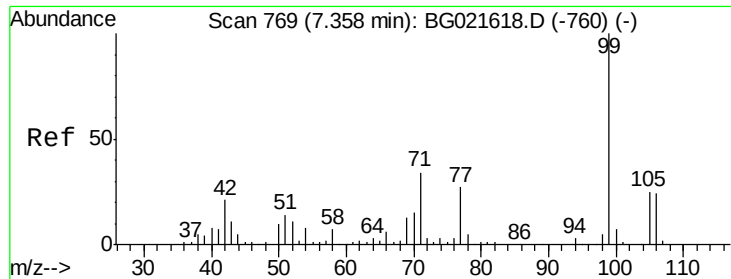
Ion Ratio Lower Upper

112 100

64 68.8 51.1 76.7

63 36.3 24.6 37.0





#7

Phenol-d6

Concen: 108.06 ng

RT: 7.374 min Scan# 77

Delta R.T. 0.017 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

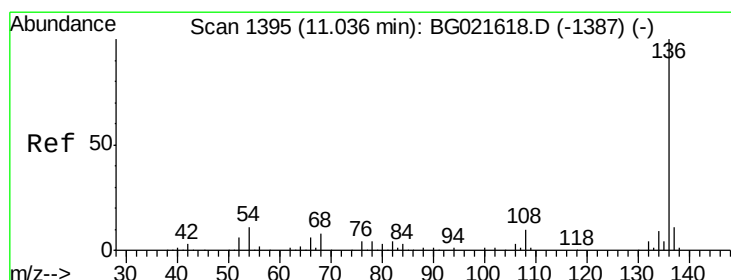
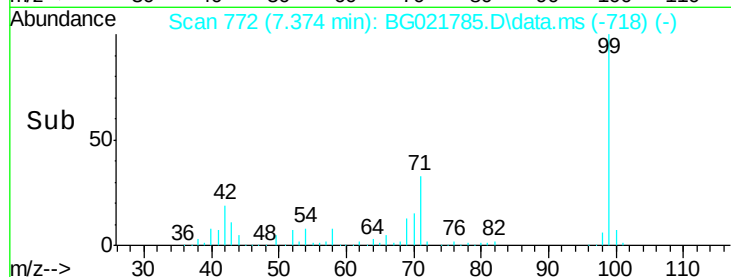
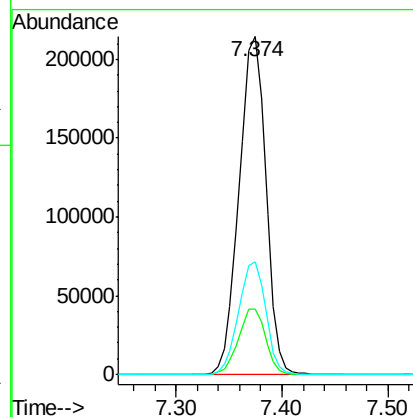
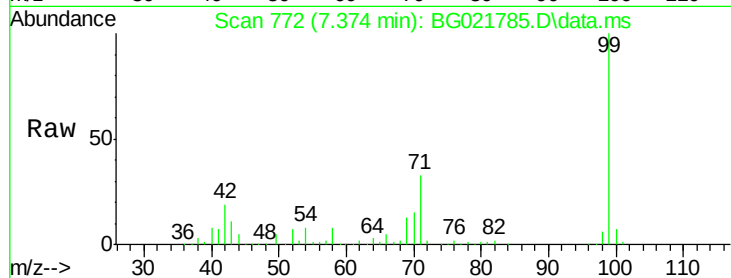
Tot Ion: 99 Resp: 376980

Ion Ratio Lower Upper

99 100

42 19.4 16.4 24.6

71 33.2 25.0 37.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.035 min Scan# 1395

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Tgt Ion: 136 Resp: 169673

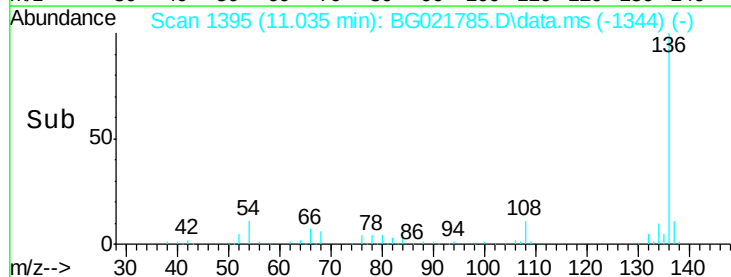
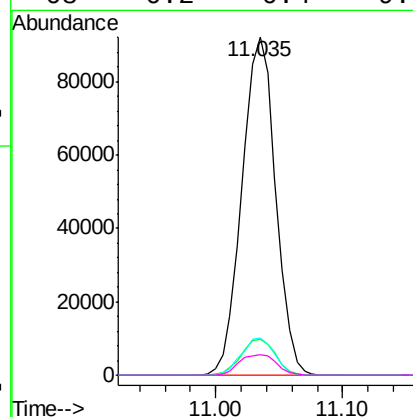
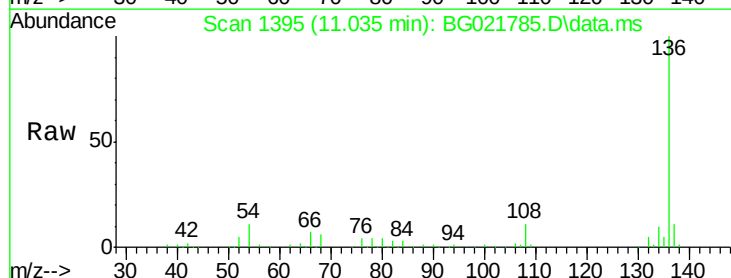
Ion Ratio Lower Upper

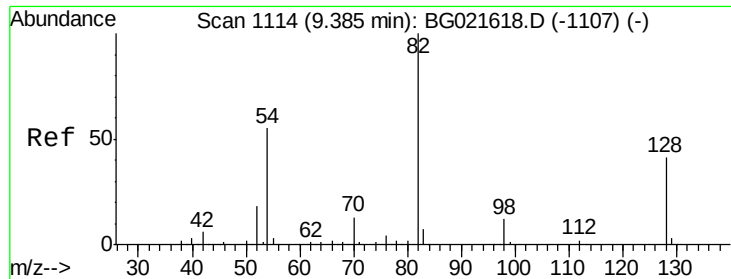
136 100

137 10.6 9.0 13.4

54 10.9 9.6 14.4

68 6.2 6.4 9.6#

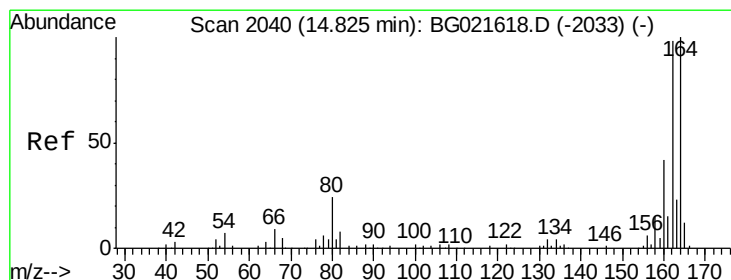
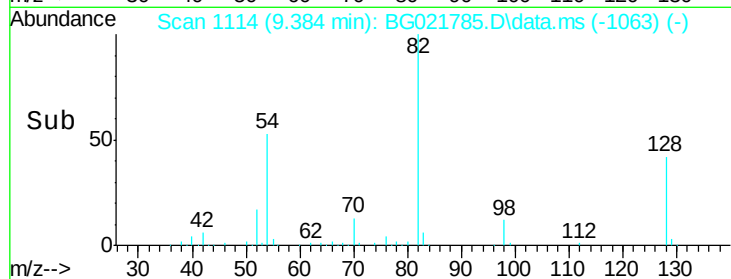
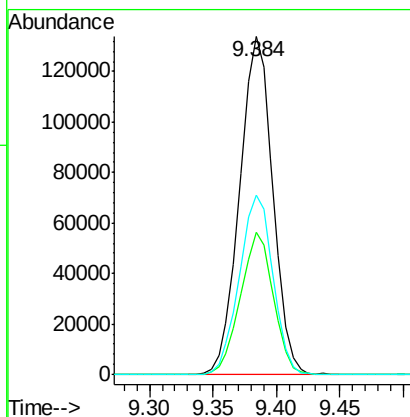
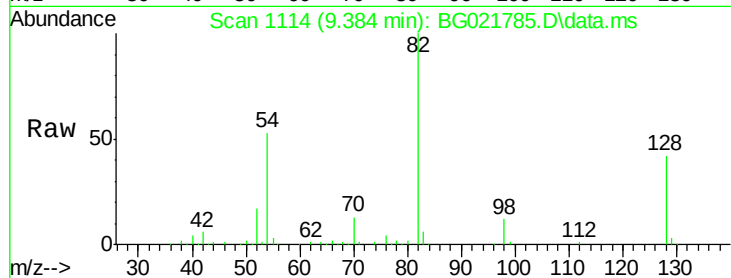




#23  
 Nitrobenzene-d5  
 Concen: 73.32 ng  
 RT: 9.384 min Scan# 1114  
 Delta R.T. -0.001 min  
 Lab File: BG021785.D  
 Acq: 20 Apr 2016 15:05

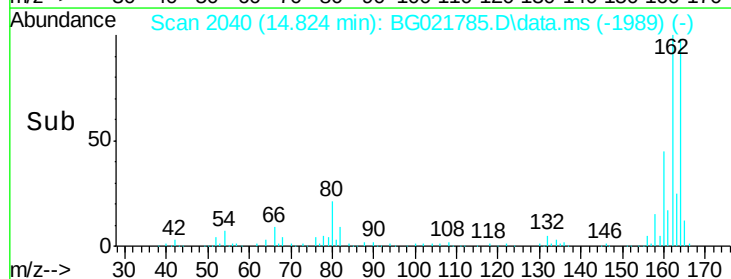
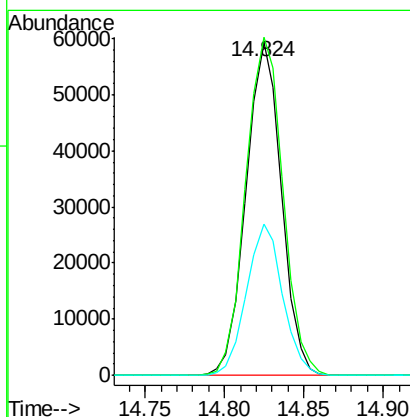
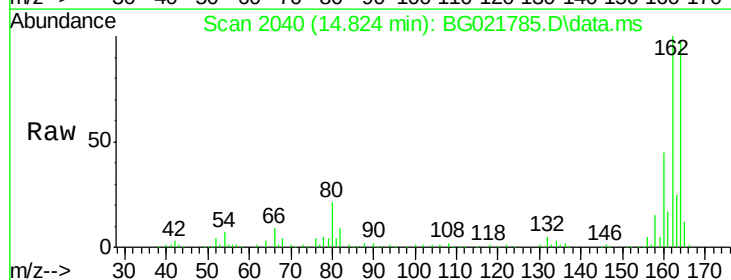
Instrument :  
 BNA\_G  
 ClientSampleId :

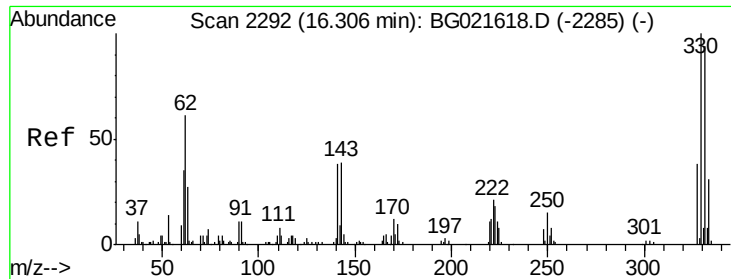
| Tot Ion   | 82   | Resp  | 242019 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 41.9 | 33.4  | 50.0   |
| 54        | 52.9 | 46.1  | 69.1   |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.824 min Scan# 2040  
 Delta R.T. -0.001 min  
 Lab File: BG021785.D  
 Acq: 20 Apr 2016 15:05

| Tgt Ion   | 164   | Resp  | 91794 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 162       | 101.5 | 78.0  | 117.0 |
| 160       | 45.6  | 32.9  | 49.3  |

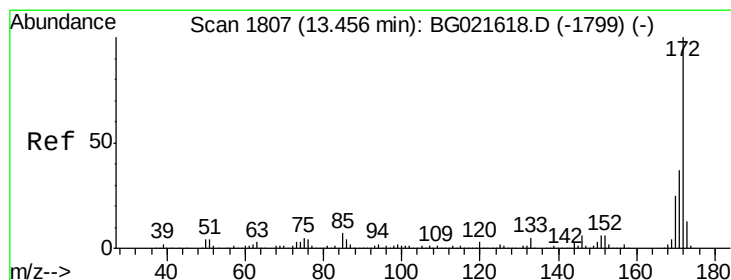
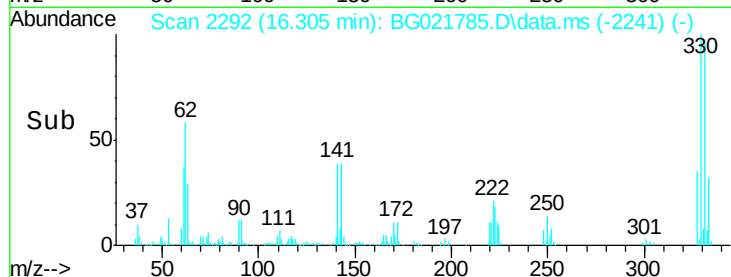
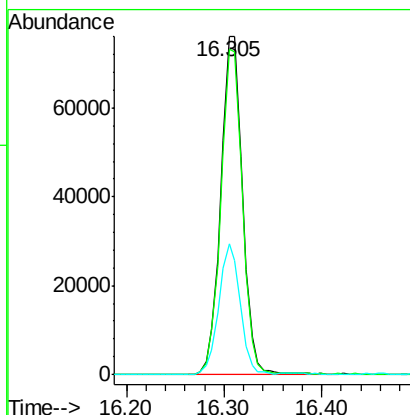
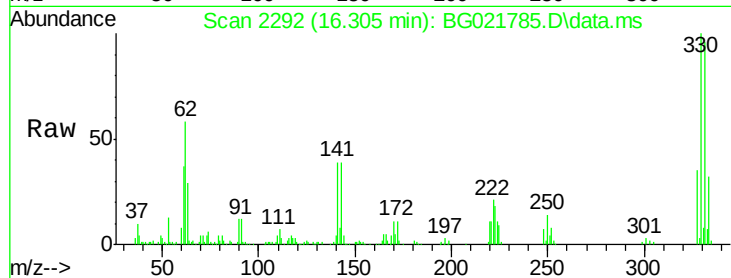




#41  
 2,4,6-Tribromophenol  
 Concen: 118.51 ng  
 RT: 16.305 min Scan# 2292  
 Delta R.T. -0.001 min  
 Lab File: BG021785.D  
 Acq: 20 Apr 2016 15:05

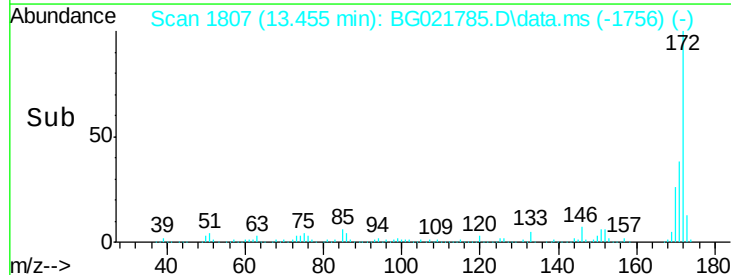
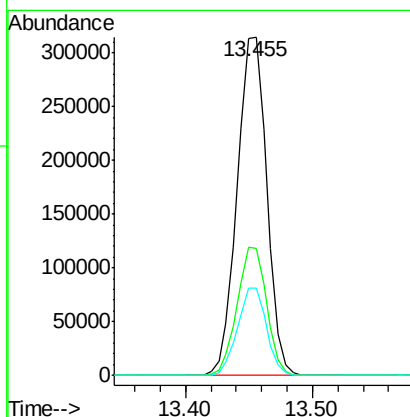
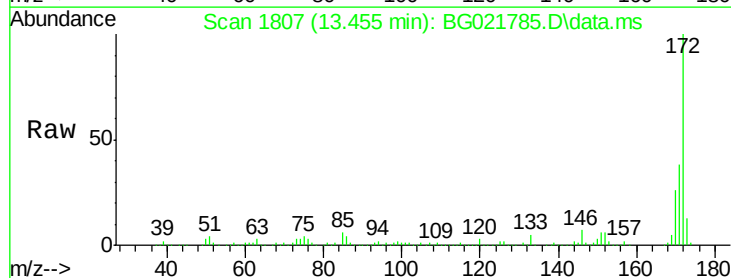
Instrument :  
 BNA\_G  
 ClientSampleId :

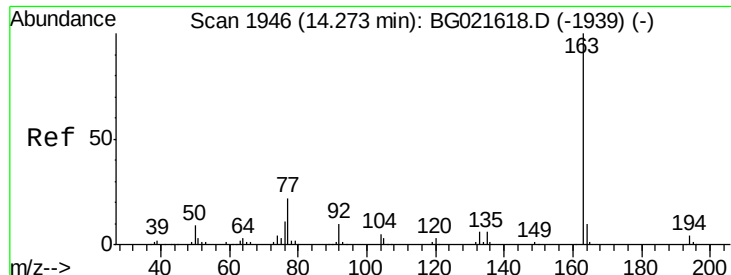
Tot Ion:330 Resp: 117242  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 78.0 117.0  
 141 37.9 33.8 50.8



#44  
 2-Fluorobiphenyl  
 Concen: 81.11 ng  
 RT: 13.455 min Scan# 1807  
 Delta R.T. -0.001 min  
 Lab File: BG021785.D  
 Acq: 20 Apr 2016 15:05

Tgt Ion:172 Resp: 508143  
 Ion Ratio Lower Upper  
 172 100  
 171 37.5 27.8 41.6  
 170 25.8 19.6 29.4





#49

Dimethylphthalate

Concen: 6.97 ng

RT: 14.266 min Scan# 19

Delta R.T. -0.007 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

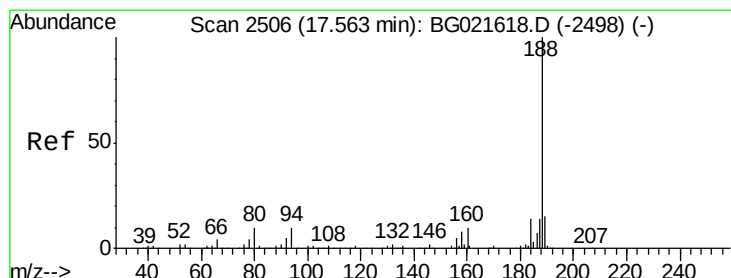
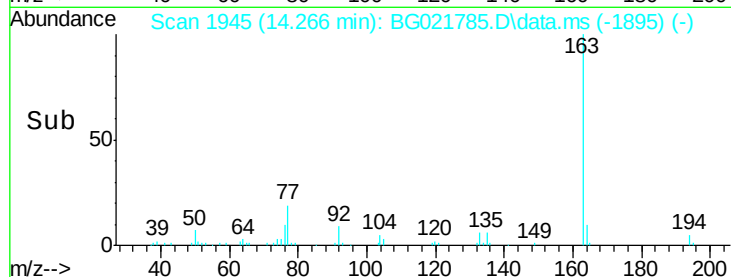
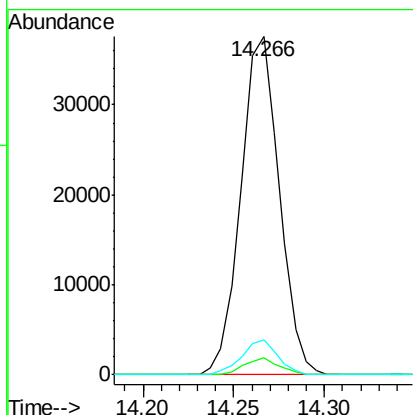
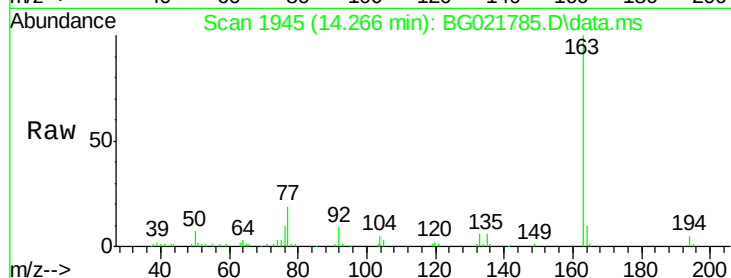
Tot Ion:163 Resp: 55316

Ion Ratio Lower Upper

163 100

194 5.1 3.0 4.6#

164 10.2 8.1 12.1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.562 min Scan# 2506

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

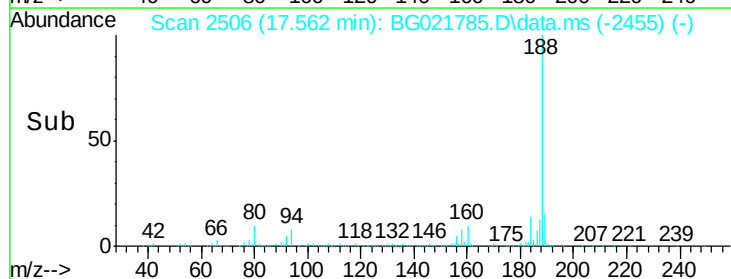
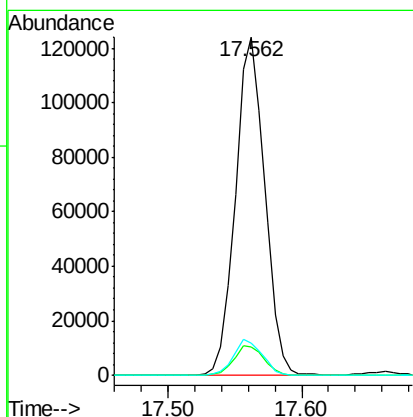
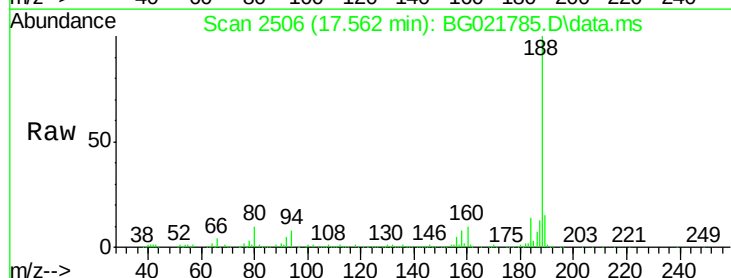
Tgt Ion:188 Resp: 188469

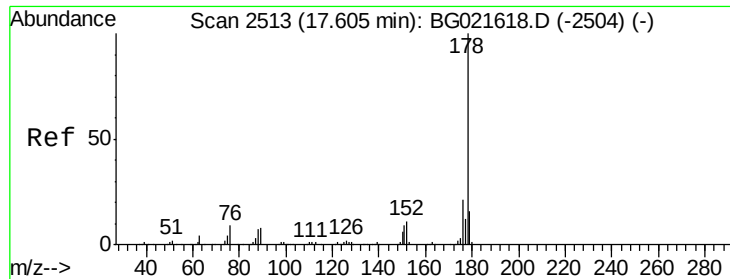
Ion Ratio Lower Upper

188 100

94 8.4 7.5 11.3

80 9.5 8.6 13.0





#70

Phenanthrene

Concen: 6.45 ng

RT: 17.604 min Scan# 2513

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

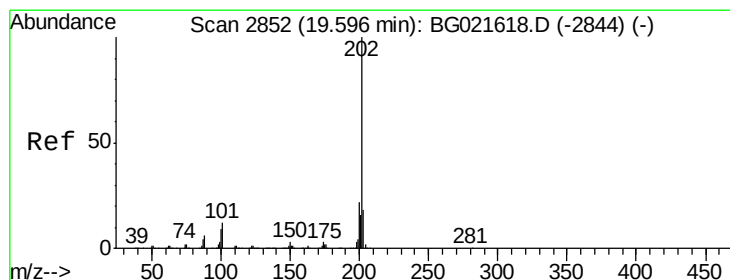
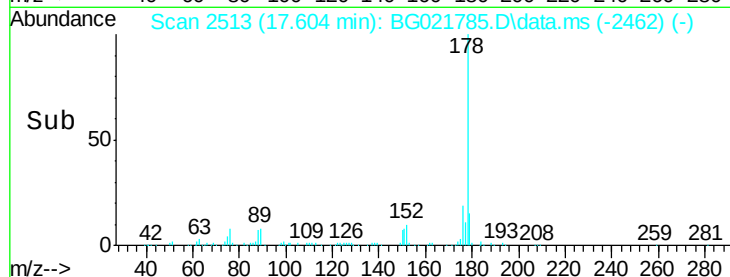
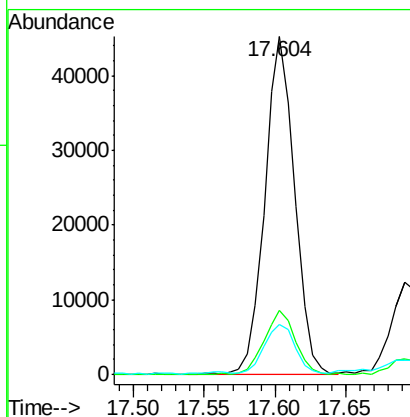
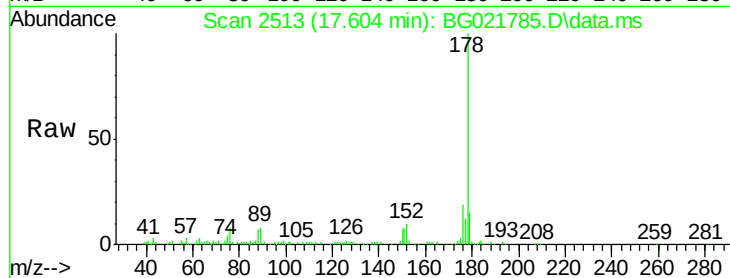
Tot Ion:178 Resp: 66961

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

179 15.0 12.0 18.0



#74

Fluoranthene

Concen: 12.12 ng

RT: 19.595 min Scan# 2852

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

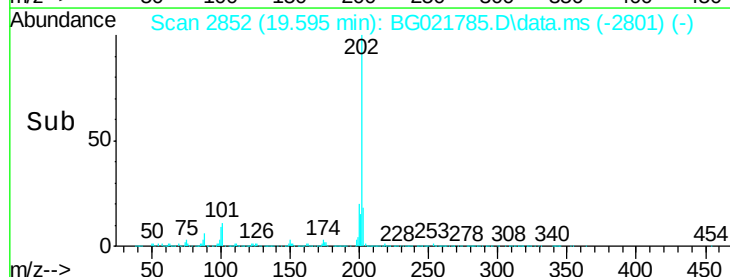
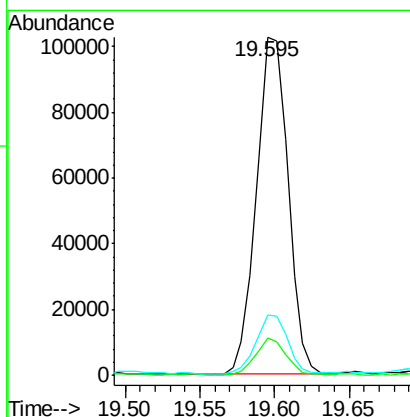
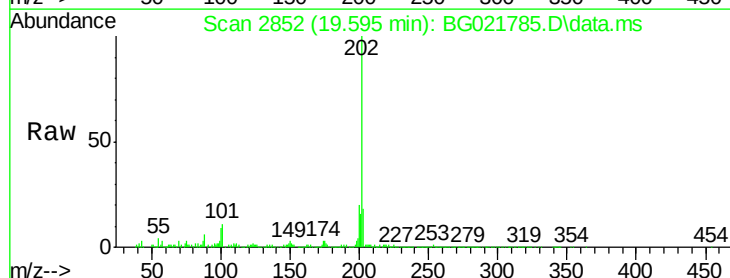
Tgt Ion:202 Resp: 150371

Ion Ratio Lower Upper

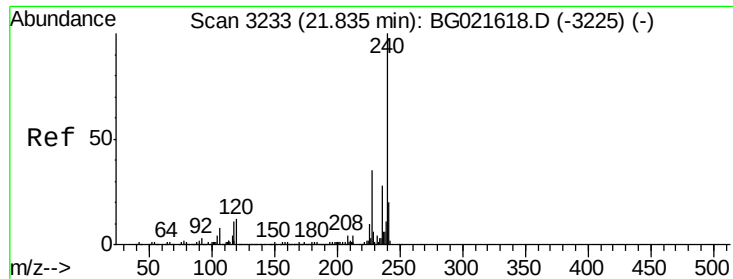
202 100

101 11.1 0.0 31.0

203 18.0 0.0 37.9







#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.834 min Scan# 32

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

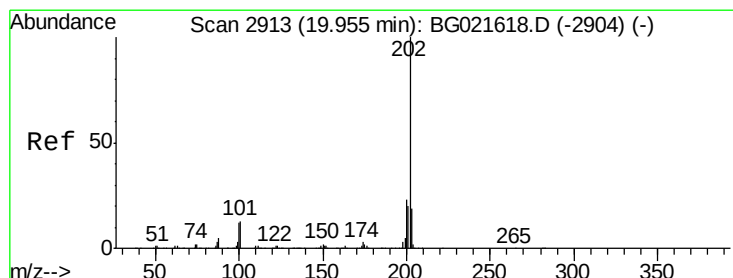
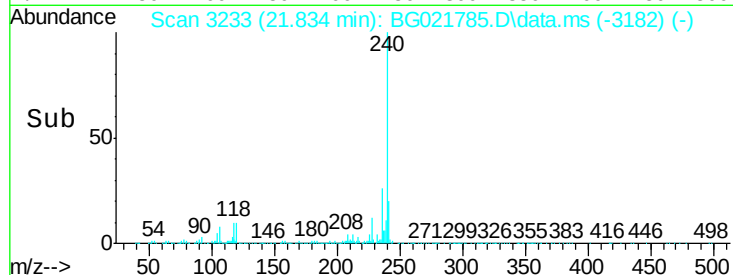
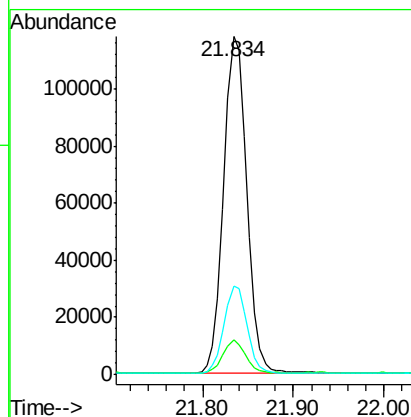
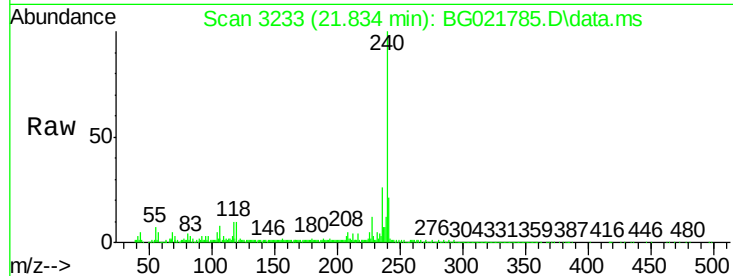
Tot Ion:240 Resp: 210143

Ion Ratio Lower Upper

240 100

120 10.2 8.4 12.6

236 26.2 19.6 29.4



#77

Pyrene

Concen: 11.18 ng

RT: 19.960 min Scan# 2914

Delta R.T. 0.005 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

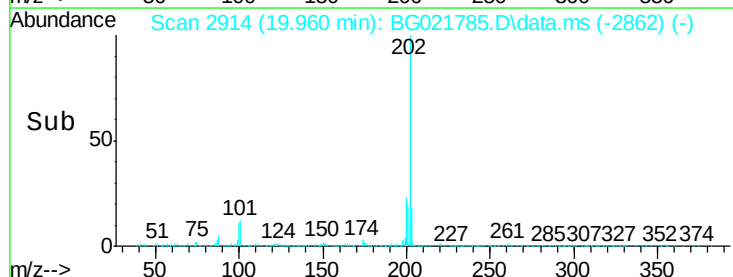
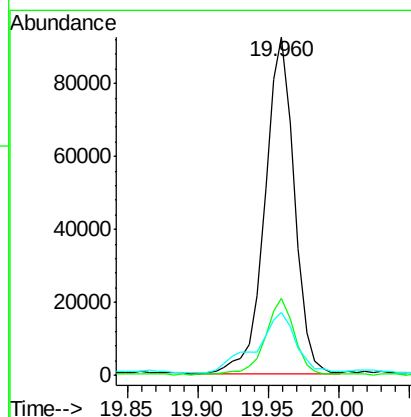
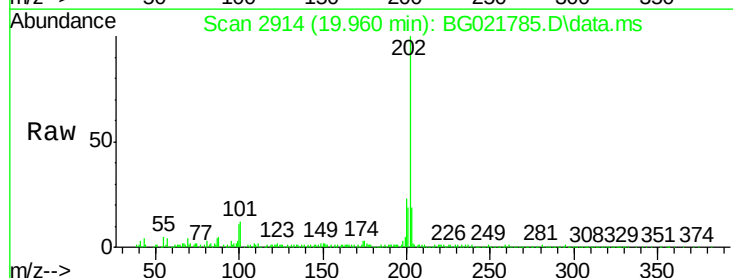
Tgt Ion:202 Resp: 135446

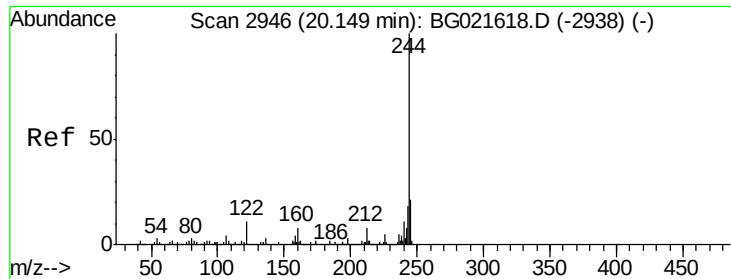
Ion Ratio Lower Upper

202 100

200 22.8 18.2 27.2

203 18.6 15.0 22.4





#78

Terphenyl-d14

Concen: 68.90 ng

RT: 20.148 min Scan# 29

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

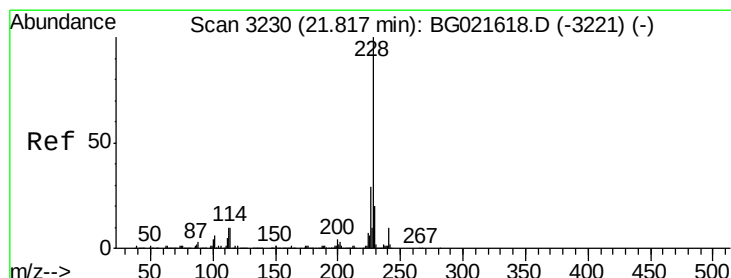
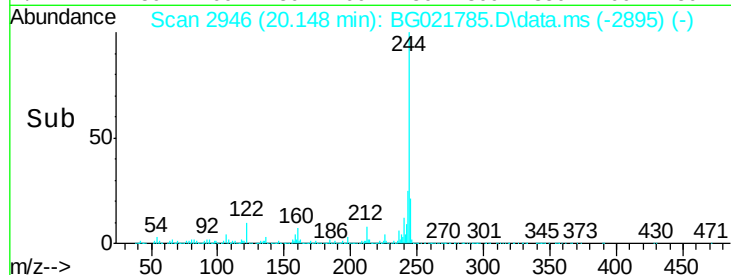
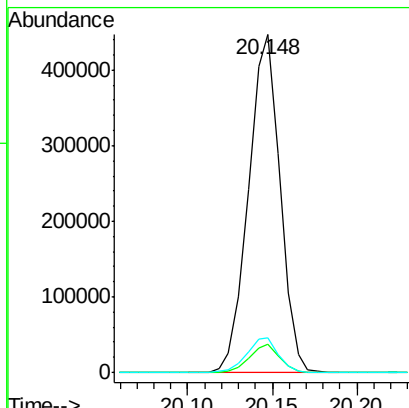
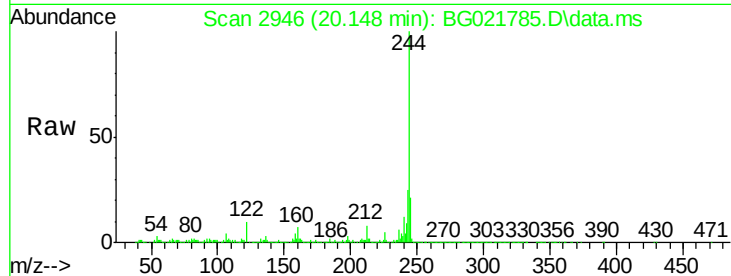
Tot Ion:244 Resp: 580253

Ion Ratio Lower Upper

244 100

212 8.2 6.5 9.7

122 10.2 8.6 12.8



#80

Benzo(a)anthracene

Concen: 7.10 ng

RT: 21.816 min Scan# 3230

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

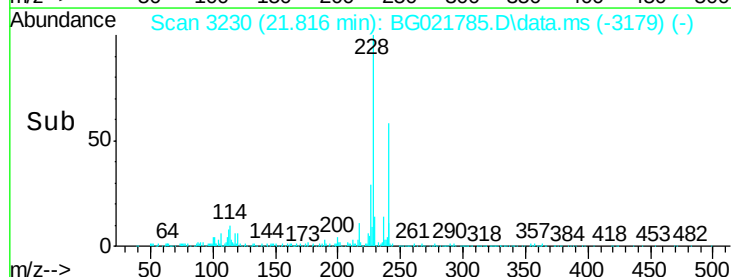
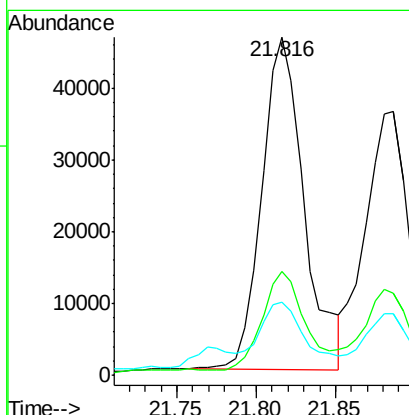
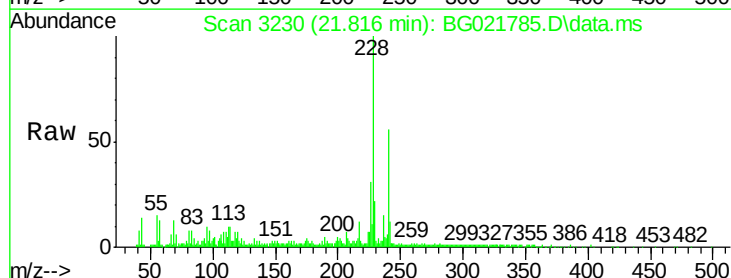
Tgt Ion:228 Resp: 85867

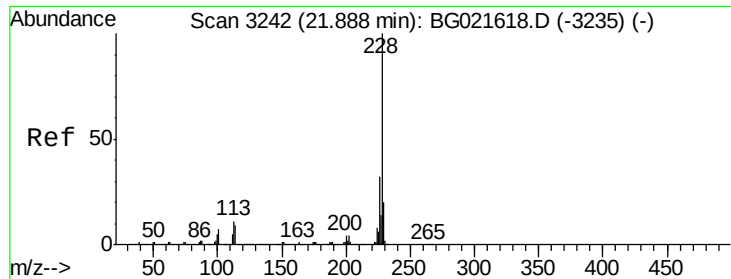
Ion Ratio Lower Upper

228 100

226 30.9 22.6 34.0

229 21.8 16.1 24.1





#82

Chrysene

Concen: 6.02 ng

RT: 21.887 min Scan# 32

Delta R.T. -0.001 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

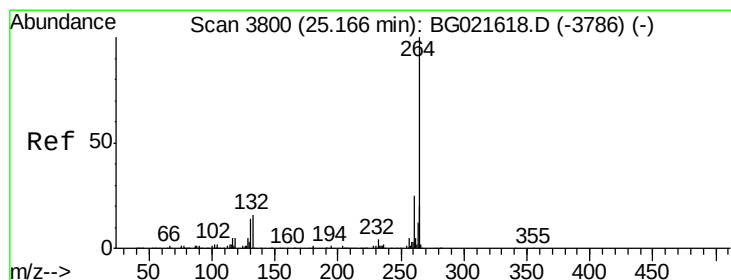
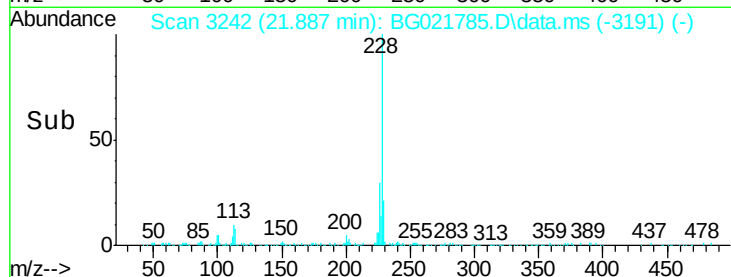
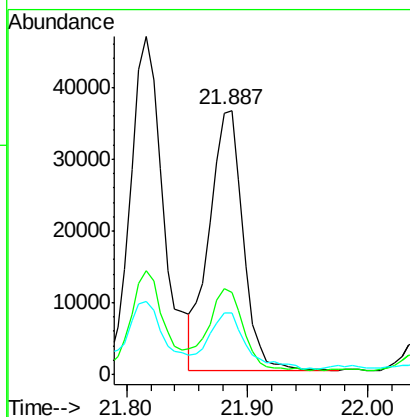
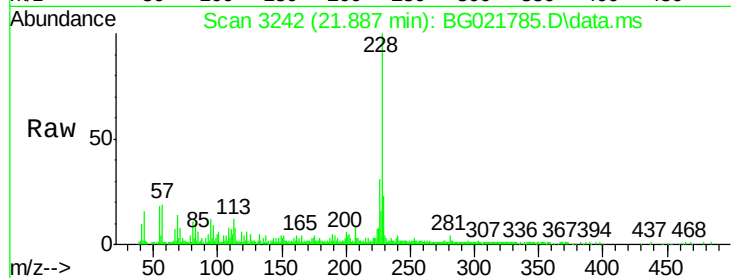
Tot Ion:228 Resp: 69916

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.0

229 23.2 15.9 23.9



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.177 min Scan# 3802

Delta R.T. 0.011 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

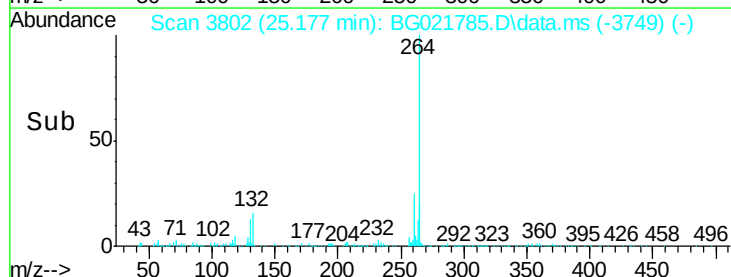
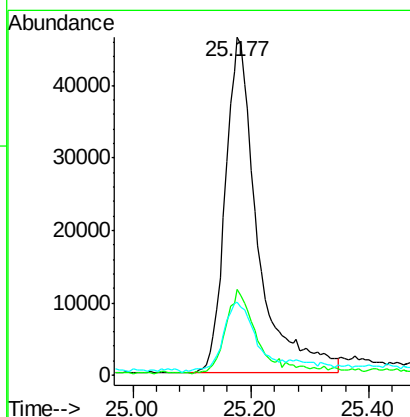
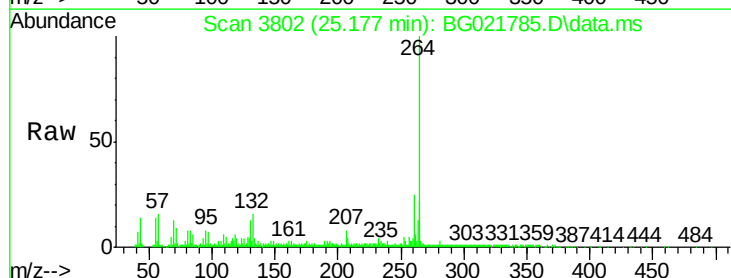
Tgt Ion:264 Resp: 177296

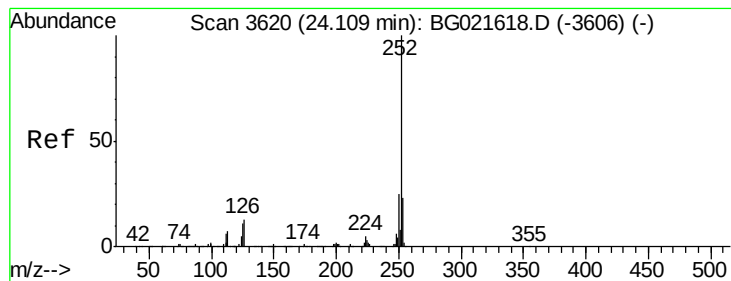
Ion Ratio Lower Upper

264 100

260 25.4 20.2 30.4

265 21.6 17.8 26.8





#87

Benzo(b)fluoranthene

Concen: 7.41 ng

RT: 24.119 min Scan# 3620

Delta R.T. 0.011 min

Lab File: BG021785.D

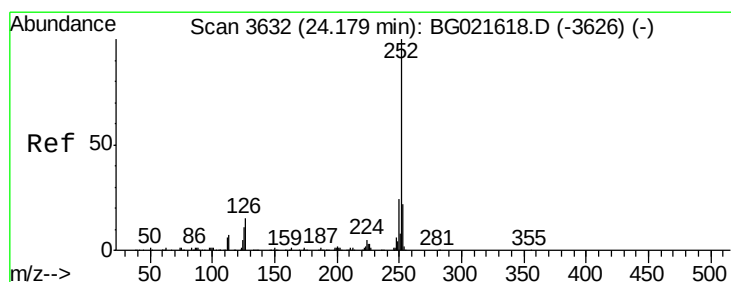
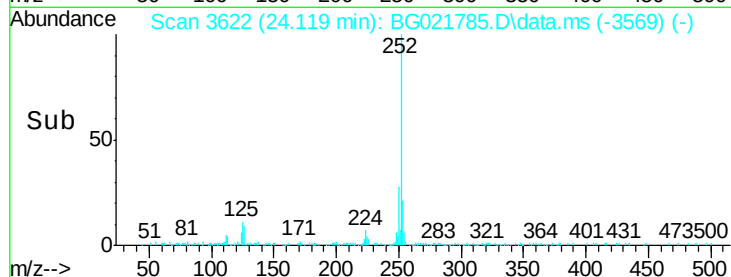
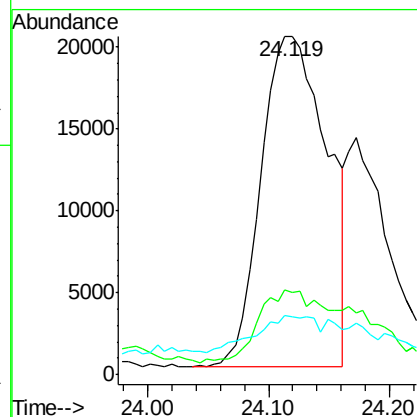
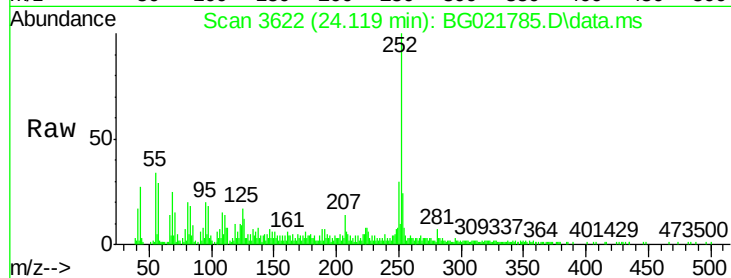
Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 76241 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.1  | 17.5  | 26.3  |
| 125       | 17.2  | 8.6   | 13.0# |



#88

Benzo(k)fluoranthene

Concen: 7.58 ng

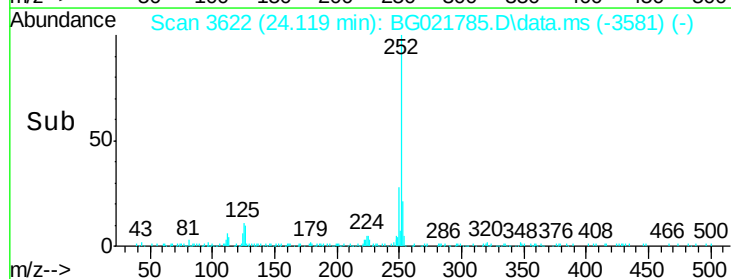
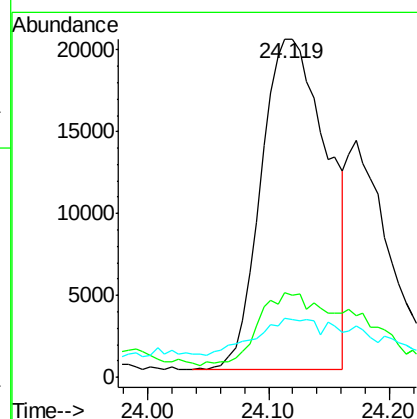
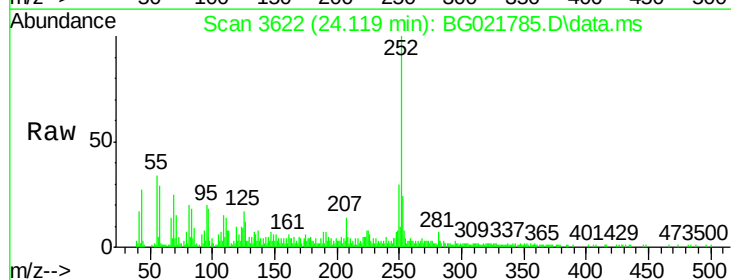
RT: 24.119 min Scan# 3622

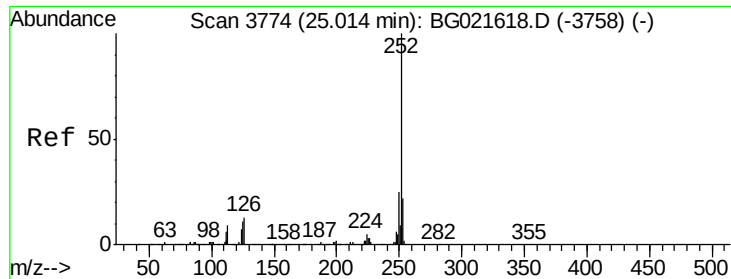
Delta R.T. -0.060 min

Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 76241 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.1  | 17.8  | 26.8  |
| 125       | 17.2  | 8.3   | 12.5# |





#89

Benzo(a)pyrene

Concen: 5.66 ng

RT: 25.013 min Scan# 37

Delta R.T. -0.001 min

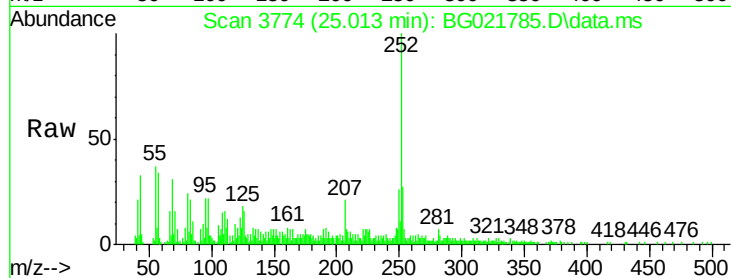
Lab File: BG021785.D

Acq: 20 Apr 2016 15:05

Instrument :

BNA\_G

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 56460 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.9  | 17.1  | 25.7# |
| 125       | 18.5  | 9.6   | 14.4# |

