

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG020916\  
 Data File : BG020822.D  
 Acq On : 9 Feb 2016 18:06  
 Operator : SJ/UM  
 Sample : H1371-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C04N3

Quant Time: Feb 10 00:40:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG020816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 10 00:34:52 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.27  | 152  | 23800    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.10 | 136  | 123693   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.88 | 164  | 68724    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.62 | 188  | 126465   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.91 | 240  | 108661   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.30 | 264  | 105380   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.61  | 96  | 1212   | 2.47  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.41  | 99  | 38399  | 15.93 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.58  | 67  | 19745  | 15.35 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.80  | 132 | 32127  | 17.03 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.97  | 113 | 30952  | 14.77 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.44  | 128 | 16187  | 16.31 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.17 | 143 | 16783  | 17.00 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.70 | 165 | 31489  | 16.57 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.22 | 131 | 29944  | 11.84 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.28 | 166 | 97214  | 16.44 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.58 | 160 | 128680 | 17.81 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.05 | 143 | 15972  | 13.49 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.87 | 176 | 84314  | 16.76 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 8180   | 13.35 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.72 | 188 | 112649 | 18.03 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.99 | 212 | 105399 | 18.87 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 25.07 | 264 | 104004 | 17.81 | ng/ul | 0.01 |

## Target Compounds

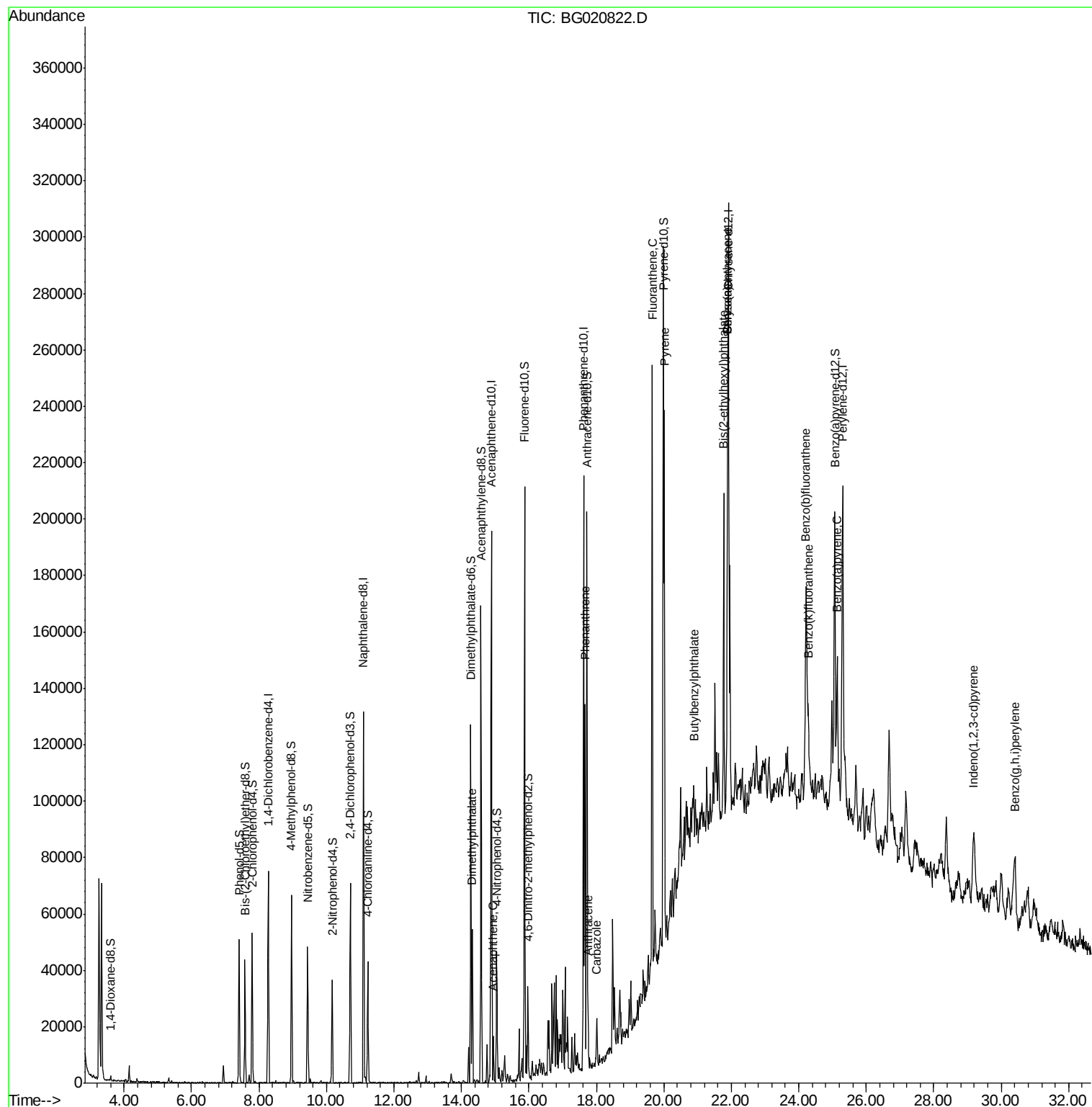
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 45) Dimethylphthalate          | 14.32 | 163 | 39009  | 6.34  | ng/ul  | 99     |
| 50) Acenaphthene               | 14.95 | 153 | 7713   | 1.39  | ng/ul  | 94     |
| 70) Phenanthrene               | 17.67 | 178 | 79189  | 9.93  | ng/ul  | 99     |
| 72) Anthracene                 | 17.75 | 178 | 15180  | 1.89  | ng/ul  | 96     |
| 75) Carbazole                  | 18.02 | 167 | 12091  | 1.72  | ng/ul  | 99     |
| 77) Fluoranthene               | 19.66 | 202 | 124263 | 15.07 | ng/ul  | 98     |
| 80) Pyrene                     | 20.01 | 202 | 103846 | 13.23 | ng/ul  | 100    |
| 81) Butylbenzylphthalate       | 20.88 | 149 | 3847   | 1.06  | ng/ul# | 92     |
| 83) Benzo(a)anthracene         | 21.88 | 228 | 54206  | 7.65  | ng/ul# | 96     |
| 84) Bis(2-ethylhexyl)phthalate | 21.77 | 149 | 50146  | 9.08  | ng/ul# | 99     |
| 85) Chrysene                   | 21.88 | 228 | 53450  | 8.19  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene       | 24.22 | 252 | 78354  | 10.92 | ng/ul# | 93     |
| 89) Benzo(k)fluoranthene       | 24.28 | 252 | 23810  | 3.47  | ng/ul# | 86     |
| 91) Benzo(a)pyrene             | 25.14 | 252 | 47426  | 6.98  | ng/ul  | 94     |
| 92) Indeno(1,2,3-cd)pyrene     | 29.18 | 276 | 36263  | 4.63  | ng/ul  | 95     |
| 94) Benzo(g,h,i)perylene       | 30.40 | 276 | 35285  | 5.51  | ng/ul  | 96     |

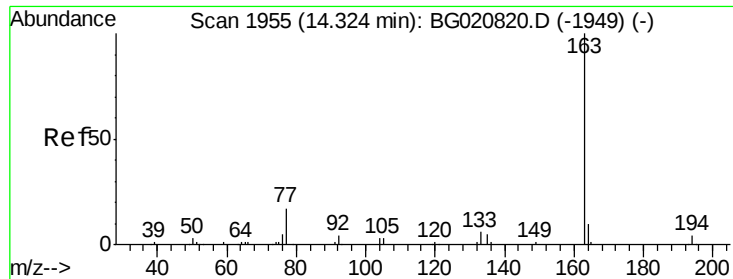
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG020916\  
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ALS Vial : 11 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION  
QLast Update : Wed Feb 10 00:34:52 2016  
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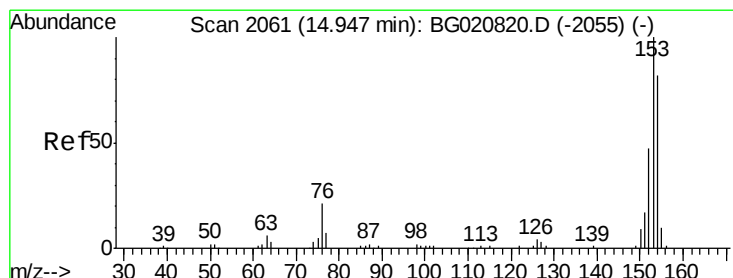
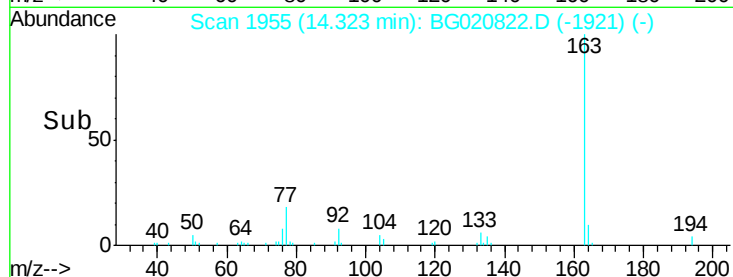
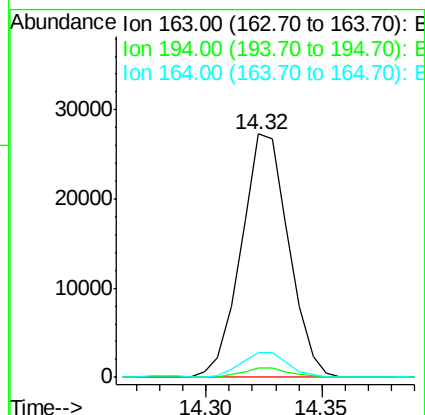
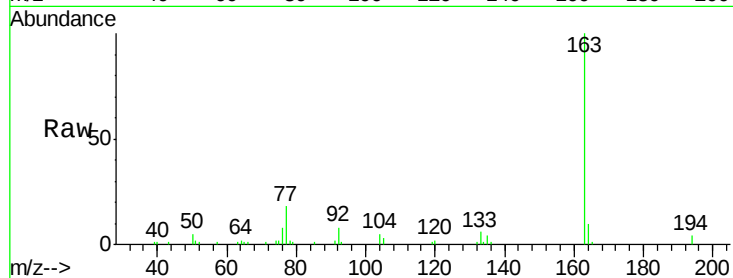




#45  
Dimethylphthalate  
Concen: 6.34 ng/ul  
RT: 14.32 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

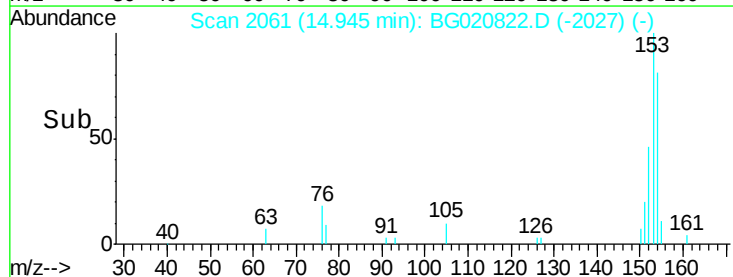
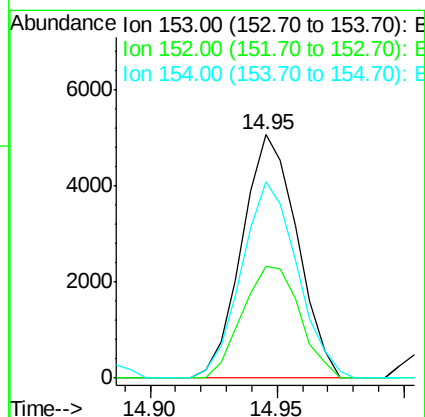
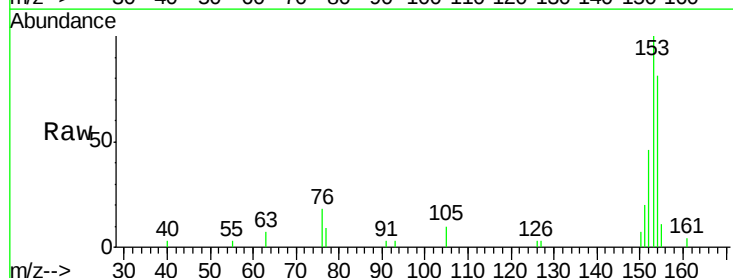
Instrument :  
BNA\_G  
ClientSampleId :  
C04N3

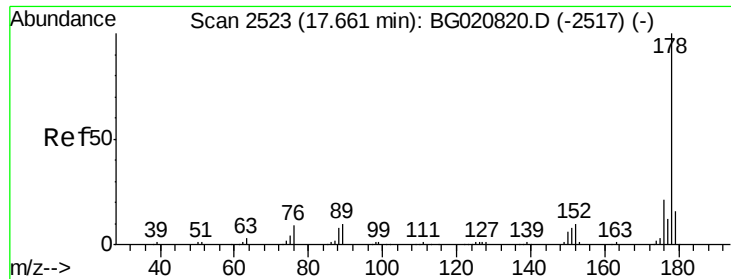
Tgt Ion:163 Resp: 39009  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.0 4.6  
164 10.3 7.7 11.5



#50  
Acenaphthene  
Concen: 1.39 ng/ul  
RT: 14.95 min Scan# 2061  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Tgt Ion:153 Resp: 7713  
Ion Ratio Lower Upper  
153 100  
152 45.9 40.6 61.0  
154 80.8 68.7 103.1

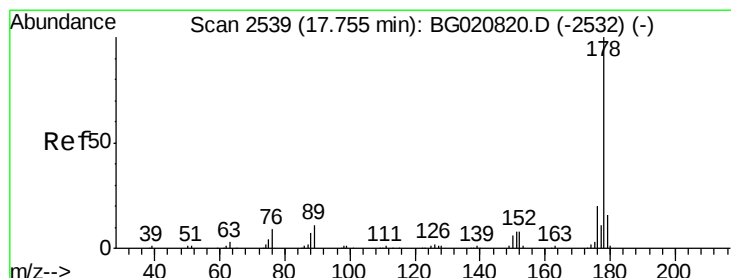
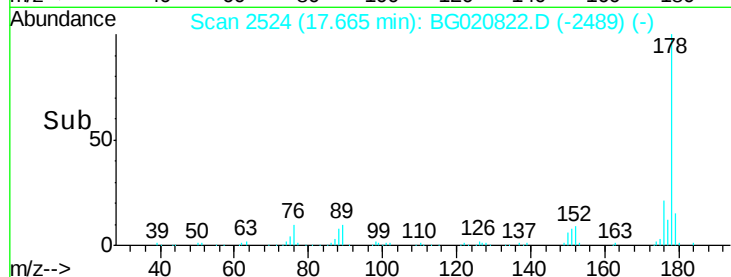
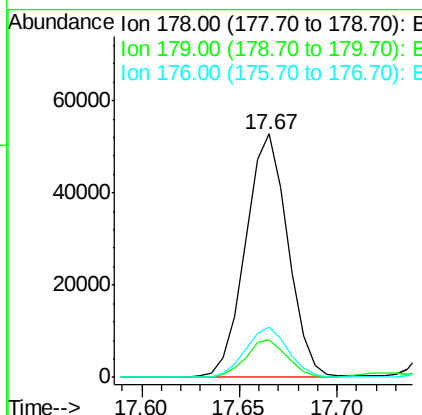
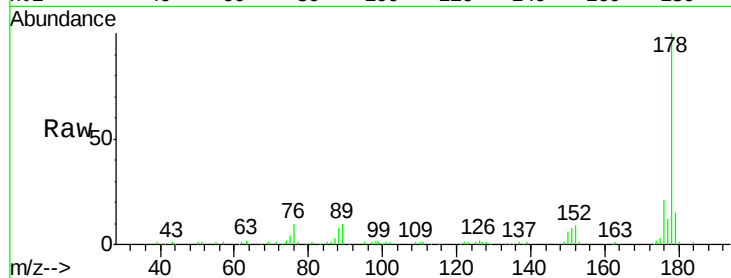




#70  
Phenanthrene  
Concen: 9.93 ng/ul  
RT: 17.67 min Scan# 2524  
Delta R.T. 0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

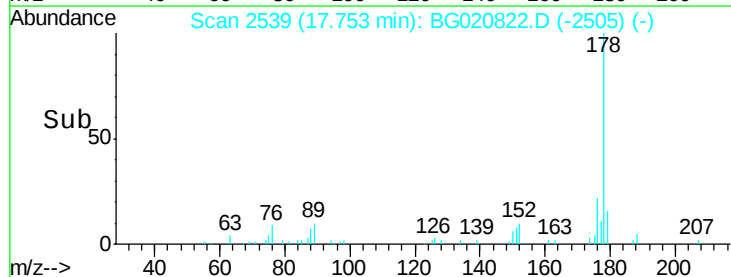
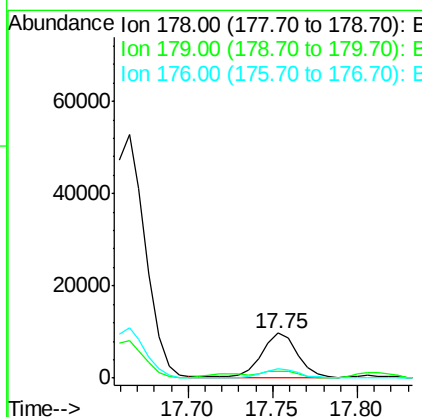
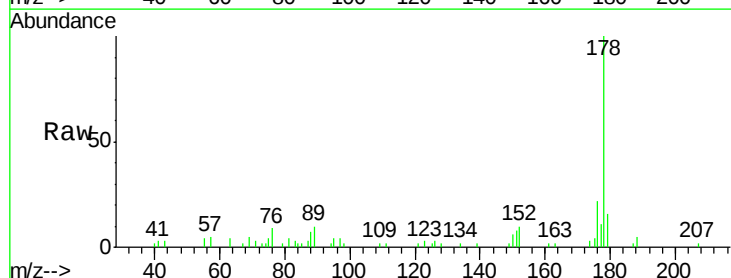
Instrument :  
BNA\_G  
ClientSampleId :  
C04N3

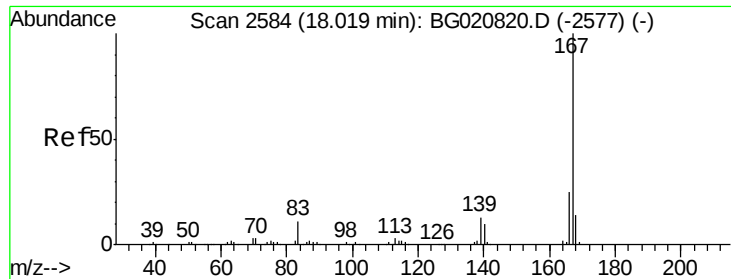
Tgt Ion:178 Resp: 79189  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.6 19.0  
176 20.6 16.0 24.0



#72  
Anthracene  
Concen: 1.89 ng/ul  
RT: 17.75 min Scan# 2539  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Tgt Ion:178 Resp: 15180  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.1 18.1  
176 22.0 15.5 23.3





#75

Carbazole

Concen: 1.72 ng/ul

RT: 18.02 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BG020822.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_G

ClientSampleId :

C04N3

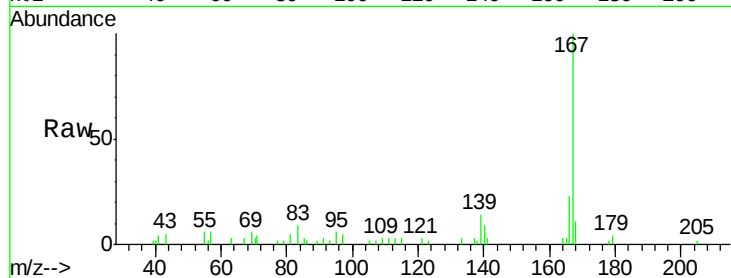
Tgt Ion:167 Resp: 12091

Ion Ratio Lower Upper

167 100

166 23.4 18.5 27.7

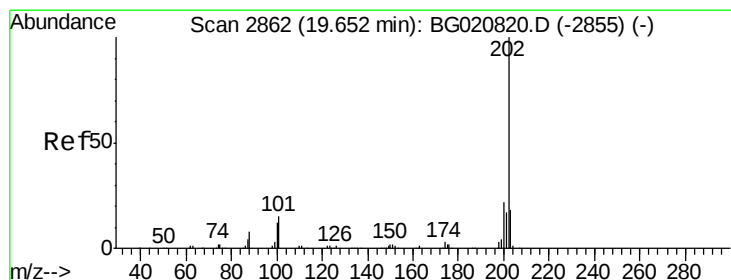
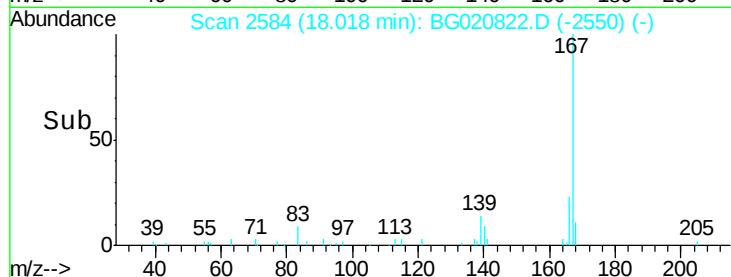
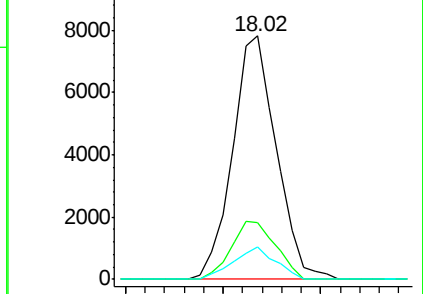
139 13.5 9.8 14.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 15.07 ng/ul

RT: 19.66 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BG020822.D

Acq: 9 Feb 2016 18:06

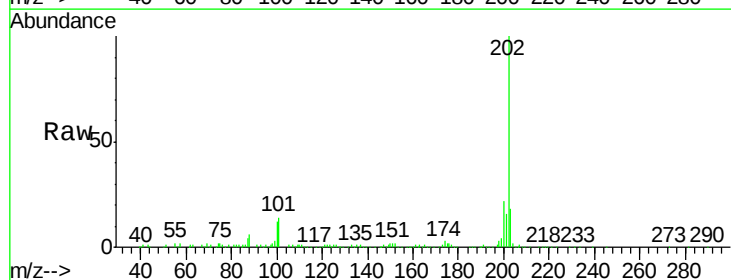
Tgt Ion:202 Resp: 124263

Ion Ratio Lower Upper

202 100

101 14.5 12.5 18.7

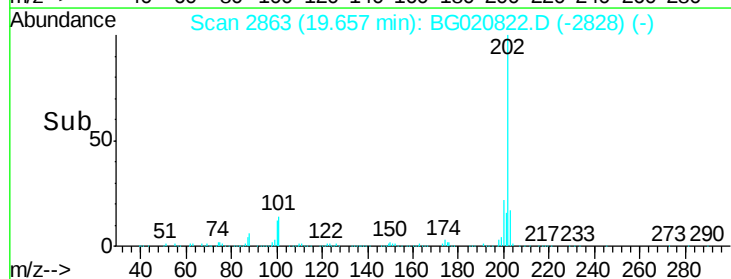
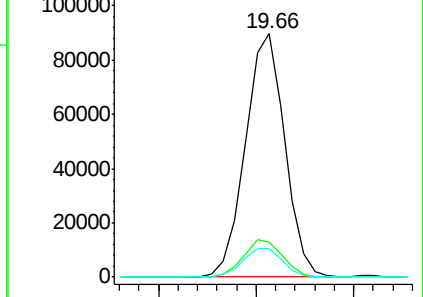
100 11.7 9.9 14.9

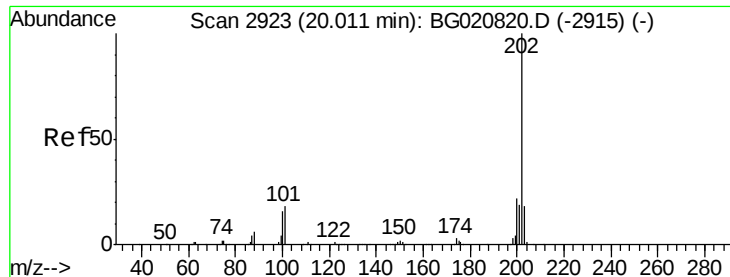


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

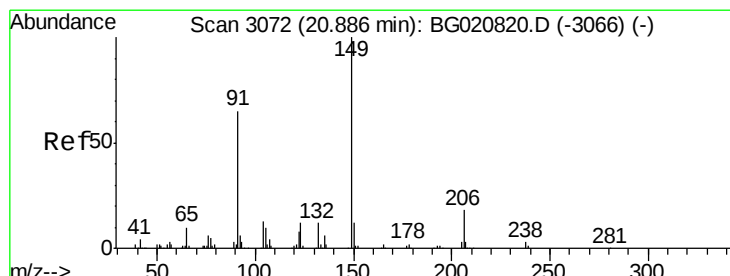
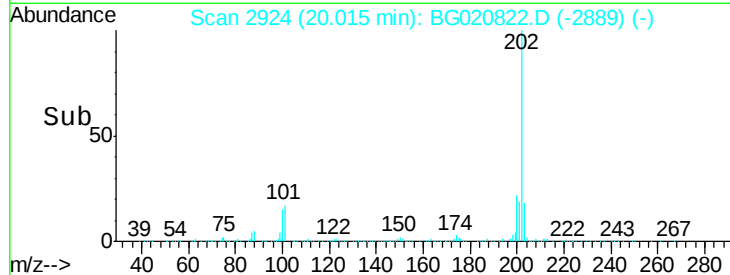
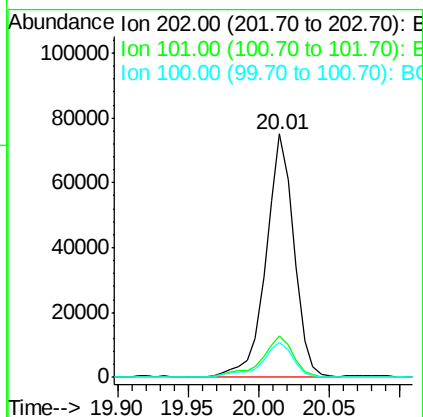
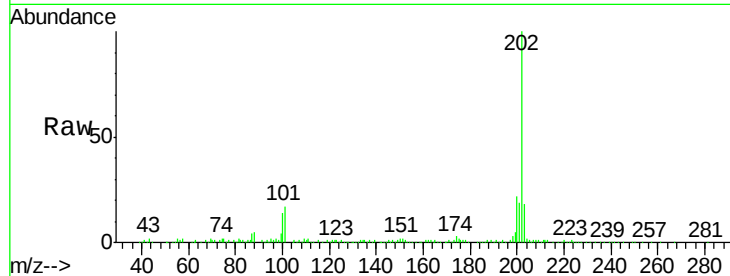




#80  
 Pyrene  
 Concen: 13.23 ng/ul  
 RT: 20.01 min Scan# 2924  
 Delta R.T. 0.00 min  
 Lab File: BG020822.D  
 Acq: 9 Feb 2016 18:06

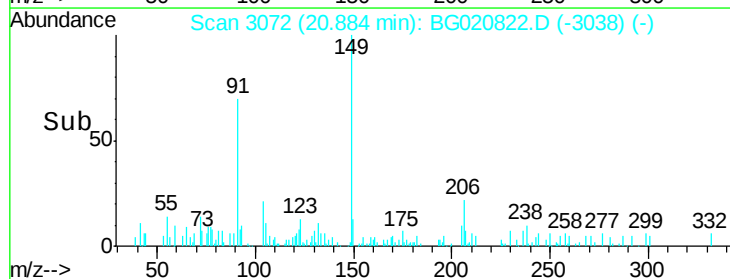
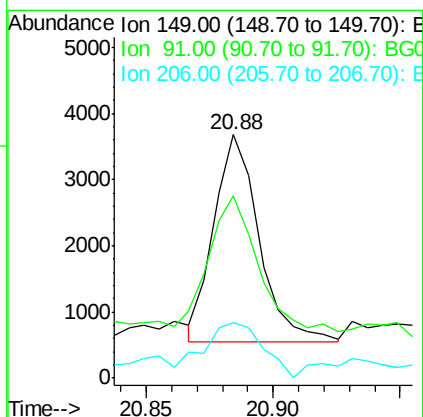
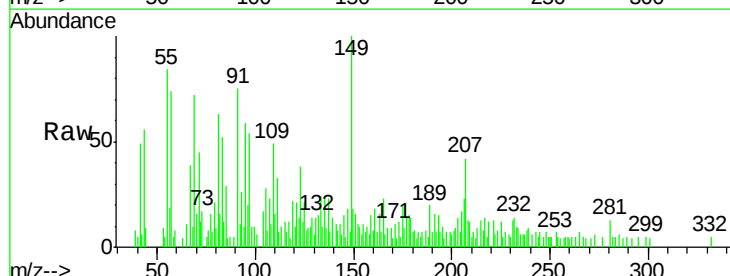
Instrument :  
 BNA\_G  
 ClientSampleId :  
 C04N3

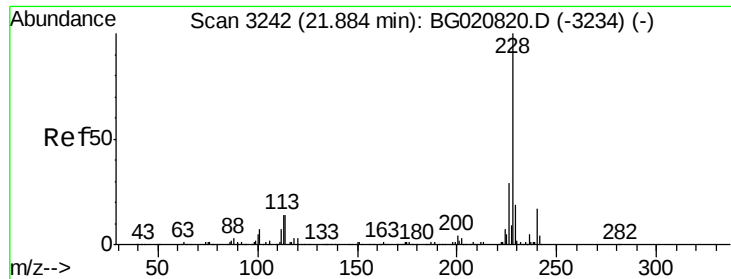
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.1  | 13.5  | 20.3  |
| 100     | 14.5  | 11.7  | 17.5  |



#81  
 Butylbenzylphthalate  
 Concen: 1.06 ng/ul  
 RT: 20.88 min Scan# 3072  
 Delta R.T. -0.00 min  
 Lab File: BG020822.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 74.7  | 55.3  | 82.9  |
| 206     | 22.7  | 14.4  | 21.6  |

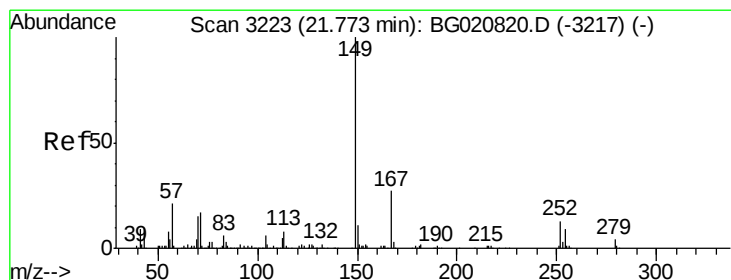
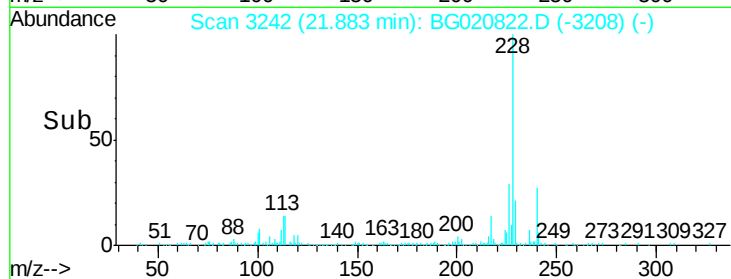
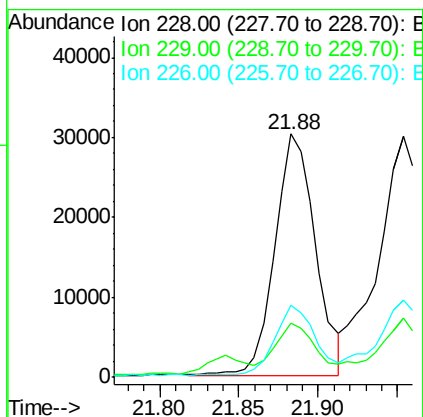
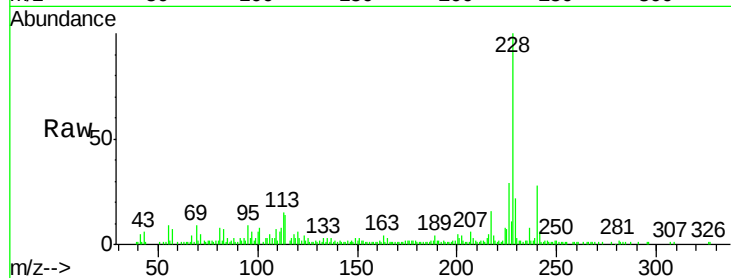




#83  
Benzo(a)anthracene  
Concen: 7.65 ng/ul  
RT: 21.88 min Scan# 3242  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

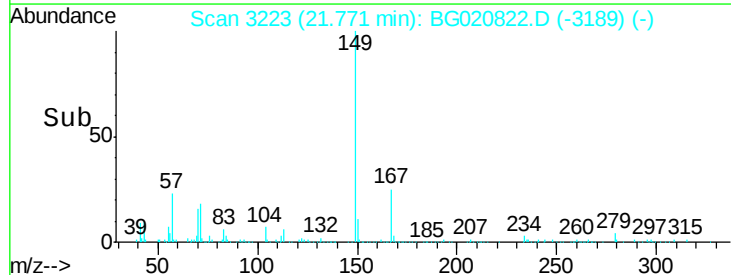
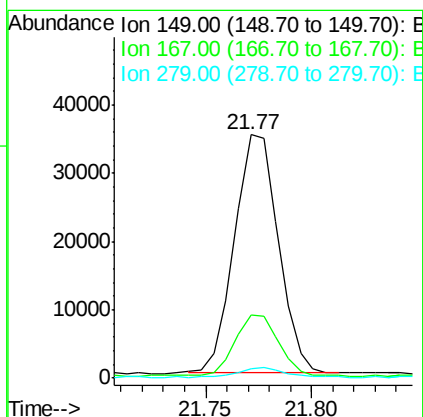
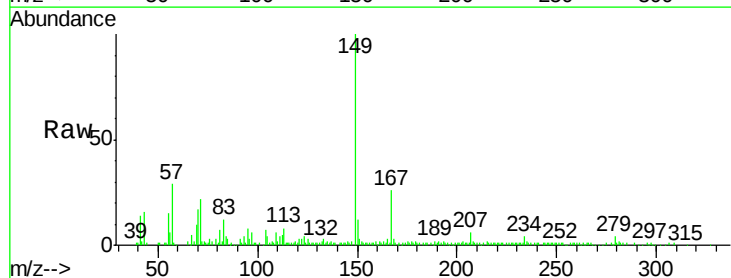
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BNA\_G  
ClientSampleId :  
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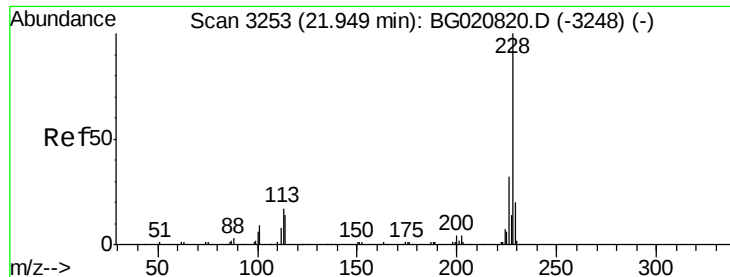
Tgt Ion: 228 Resp: 54206  
Ion Ratio Lower Upper  
228 100  
229 22.3 14.8 22.2#  
226 29.5 23.0 34.4



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 9.08 ng/ul  
RT: 21.77 min Scan# 3223  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Tgt Ion: 149 Resp: 50146  
Ion Ratio Lower Upper  
149 100  
167 26.0 21.0 31.4  
279 4.0 2.5 3.7#

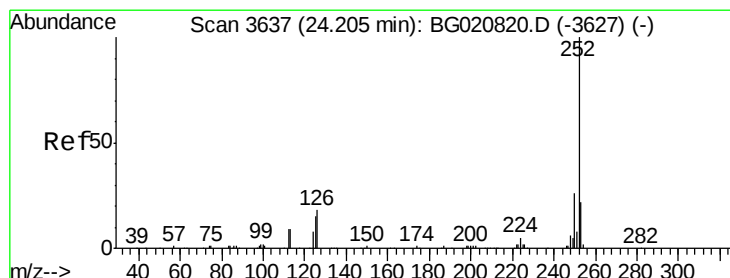
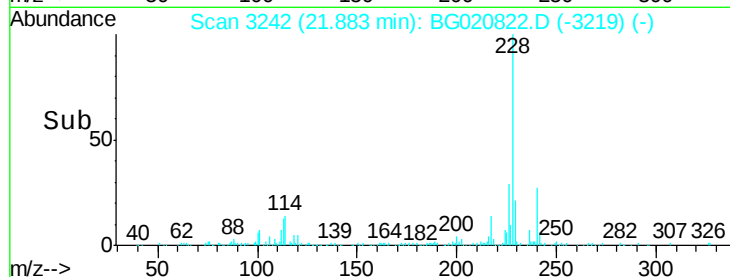
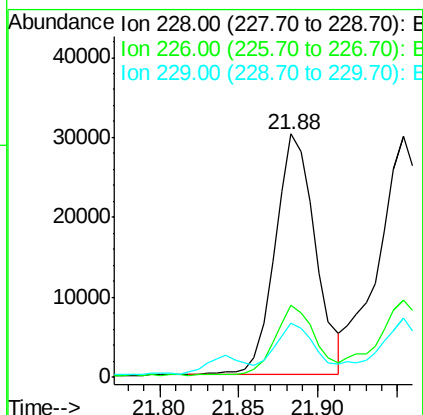
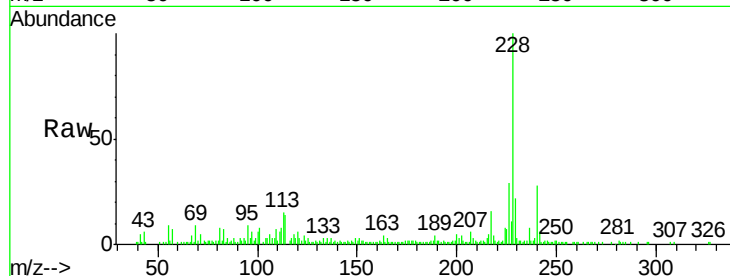




#85  
Chrysene  
Concen: 8.19 ng/ul  
RT: 21.88 min Scan# 3242  
Delta R.T. -0.07 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

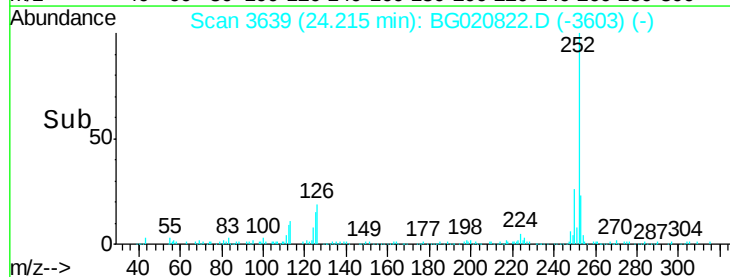
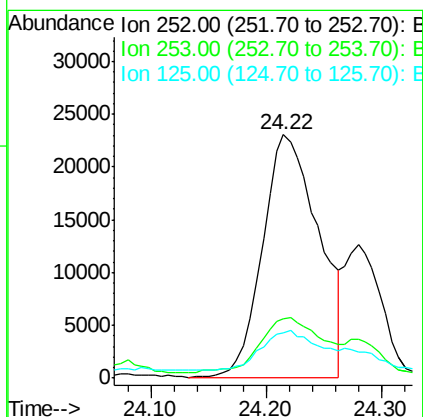
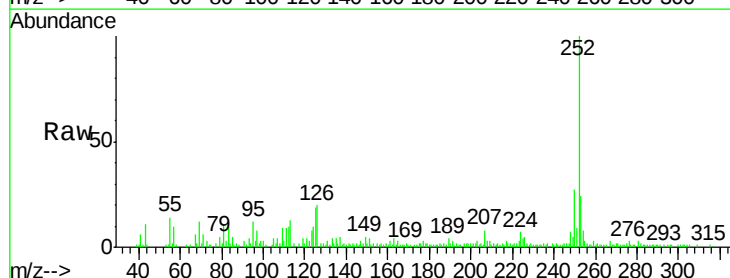
Instrument :  
BNA\_G  
ClientSampleId :  
C04N3

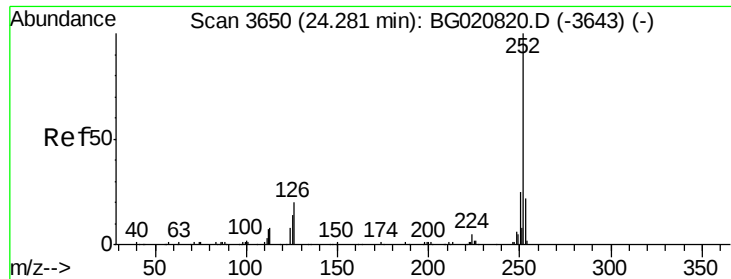
Tgt Ion:228 Resp: 53450  
Ion Ratio Lower Upper  
228 100  
226 29.5 24.4 36.6  
229 22.3 15.8 23.6



#88  
Benzo(b)fluoranthene  
Concen: 10.92 ng/ul  
RT: 24.22 min Scan# 3639  
Delta R.T. 0.01 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Tgt Ion:252 Resp: 78354  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.1 25.7  
125 18.8 12.5 18.7#

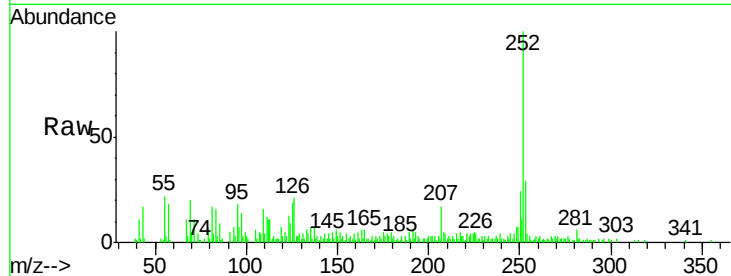




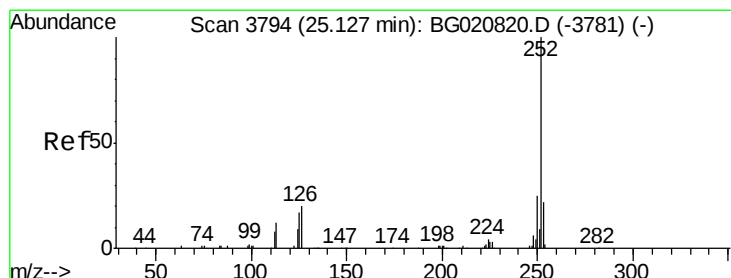
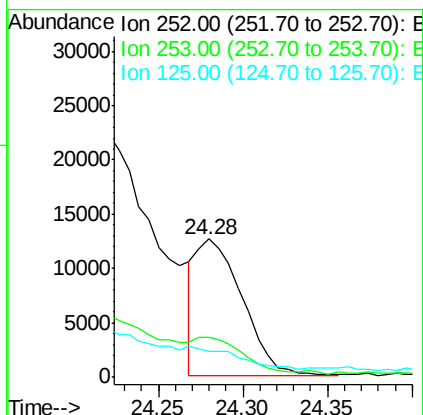
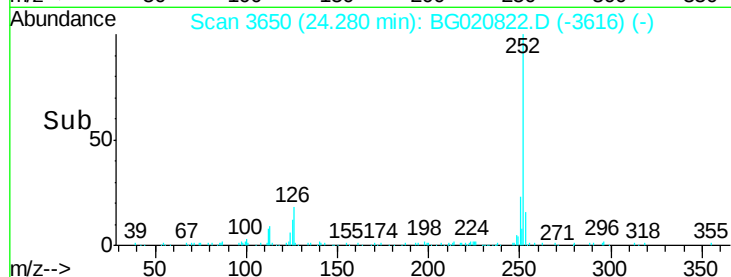
#89  
Benzo(k)fluoranthene  
Concen: 3.47 ng/ul  
RT: 24.28 min Scan# 3650  
Delta R.T. -0.00 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_G  
ClientSampleId :  
C04N3

Tgt Ion:252 Resp: 23810  
Ion Ratio Lower Upper  
252 100  
253 29.1 17.1 25.7#  
125 19.1 12.1 18.1#

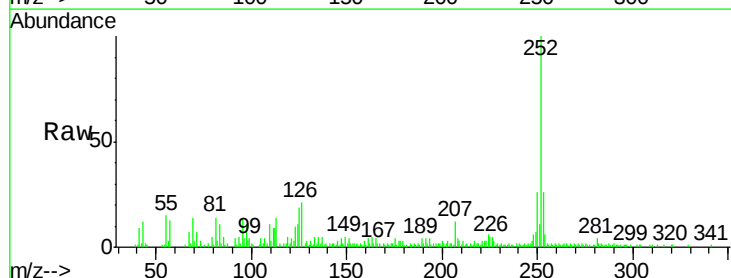


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

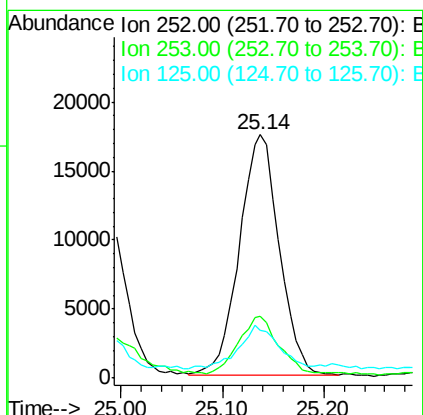
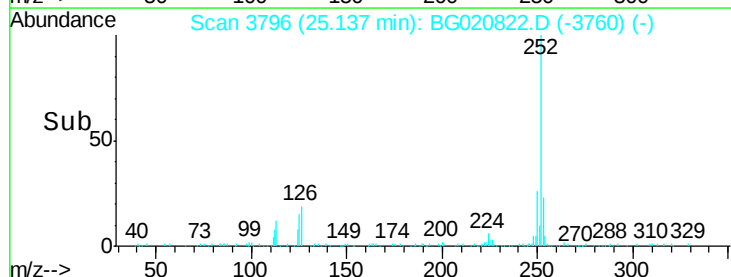


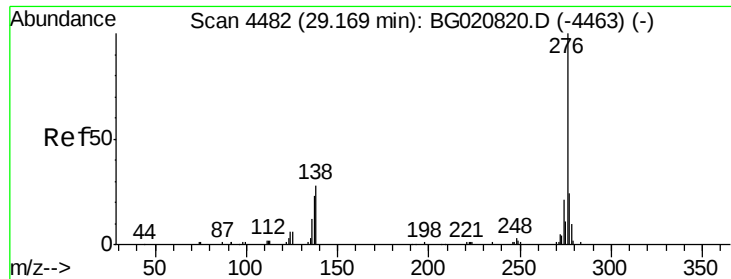
#91  
Benzo(a)pyrene  
Concen: 6.98 ng/ul  
RT: 25.14 min Scan# 3796  
Delta R.T. 0.01 min  
Lab File: BG020822.D  
Acq: 9 Feb 2016 18:06

Tgt Ion:252 Resp: 47426  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.3 25.9  
125 19.5 14.2 21.2



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 4.63 ng/ul

RT: 29.18 min Scan# 4484

Delta R.T. 0.01 min

Lab File: BG020822.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_G

ClientSampleId :

C04N3

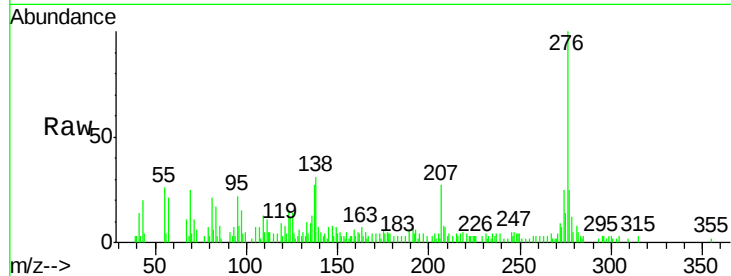
Tgt Ion:276 Resp: 36263

Ion Ratio Lower Upper

276 100

138 31.4 22.4 33.6

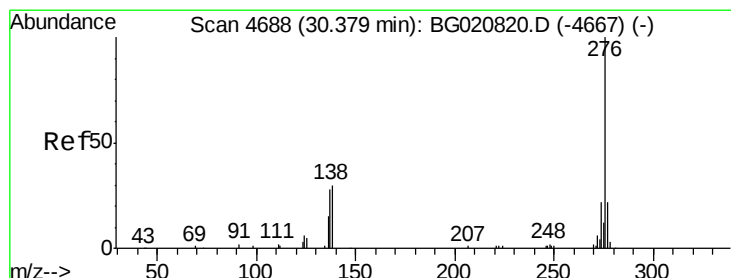
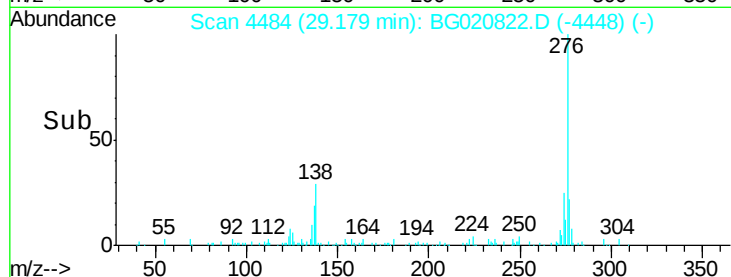
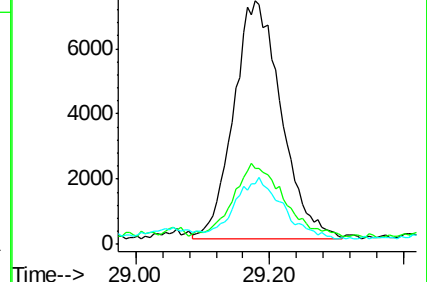
277 24.8 18.5 27.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#94

Benzo(g,h,i)perylene

Concen: 5.51 ng/ul

RT: 30.40 min Scan# 4692

Delta R.T. 0.02 min

Lab File: BG020822.D

Acq: 9 Feb 2016 18:06

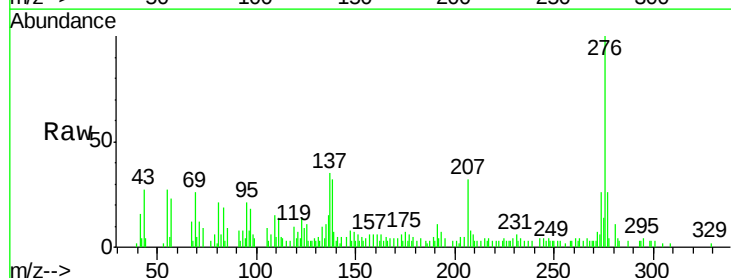
Tgt Ion:276 Resp: 35285

Ion Ratio Lower Upper

276 100

138 32.3 24.4 36.6

277 25.9 18.7 28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

