

Data Path : Z:\HPCHEM1\BNA G\Data\BG031317\  
 Data File : BG026209.D  
 Acq On : 13 Mar 2017 11:53  
 Operator : SJ/MA  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 15 05:49:41 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG030317-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 15 05:48:38 2017  
 Response via : Initial Calibration

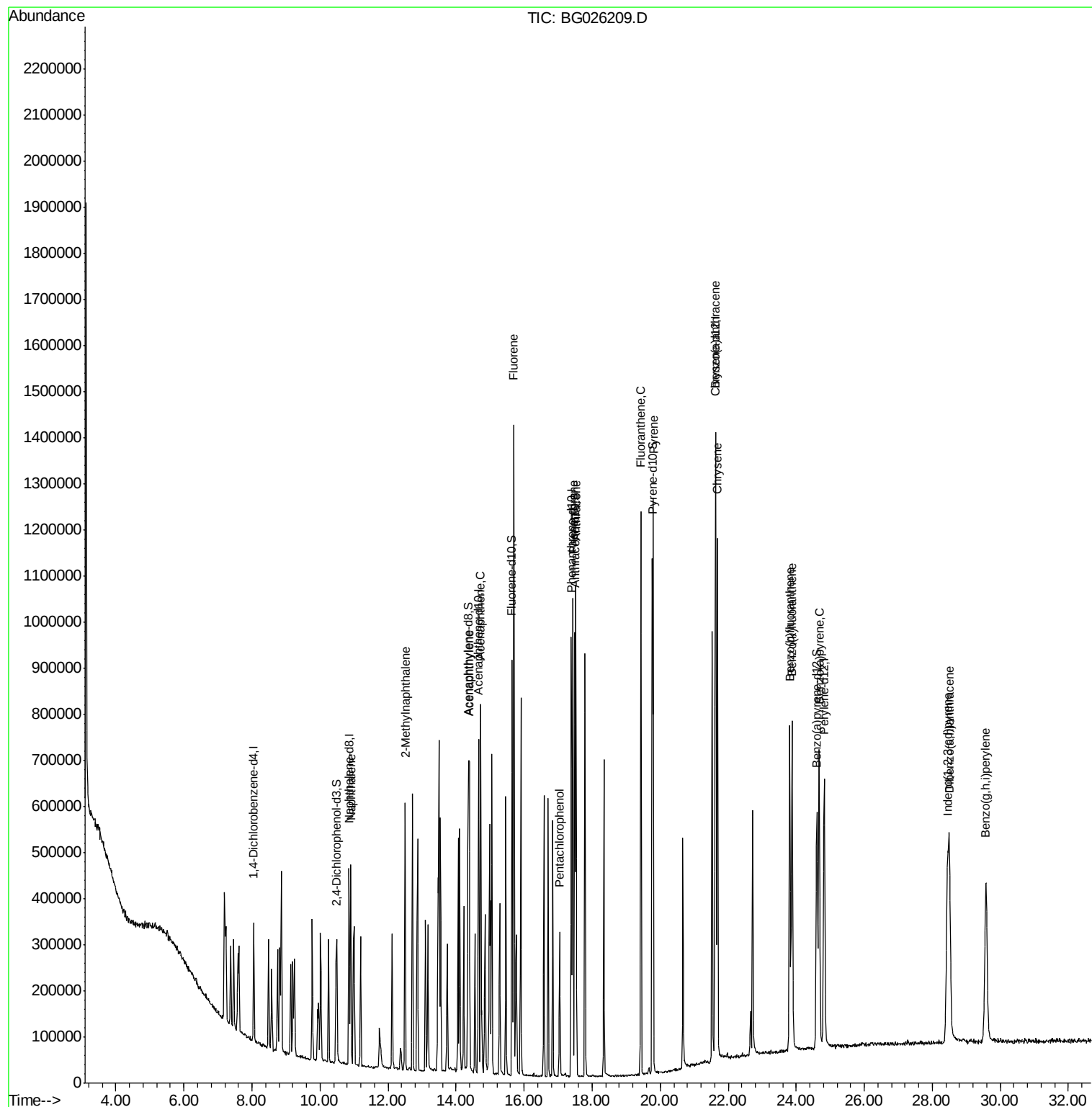
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.05  | 152  | 74738    | 20.00  | ng/ul | -0.01    |
| 2) Naphthalene-d8           | 10.86 | 136  | 381827   | 20.00  | ng/ul | -0.01    |
| 6) Acenaphthene-d10         | 14.66 | 164  | 247500   | 20.00  | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 17.39 | 188  | 618225   | 20.00  | ng/ul | 0.00     |
| 18) Chrysene-d12            | 21.64 | 240  | 632173   | 20.00  | ng/ul | 0.00     |
| 23) Perylene-d12            | 24.82 | 264  | 594332   | 20.00  | ng/ul | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 3) 2,4-Dichlorophenol-d3    | 10.47 | 165  | 97191    | 17.18  | ng/uL | 0.00     |
| 7) Acenaphthylene-d8        | 14.36 | 160  | 495422   | 23.48  | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.64 | 176  | 365170   | 23.72  | ng/ul | 0.00     |
| 15) Anthracene-d10          | 17.49 | 188  | 562358   | 20.47  | ng/ul | 0.00     |
| 19) Pyrene-d10              | 19.76 | 212  | 594065   | 18.42  | ng/ul | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.60 | 264  | 532508   | 20.77  | ng/ul | -0.01    |
| Target Compounds            |       |      |          | Qvalue |       |          |
| 4) Naphthalene              | 10.90 | 128  | 373244   | 19.98  | ng/ul | 99       |
| 5) 2-Methylnaphthalene      | 12.50 | 142  | 297804   | 21.49  | ng/ul | 100      |
| 8) Acenaphthylene           | 14.39 | 152  | 498700   | 23.14  | ng/ul | 97       |
| 9) Acenaphthene             | 14.72 | 153  | 351907   | 23.10  | ng/ul | 97       |
| 11) Fluorene                | 15.70 | 166  | 410599   | 23.88  | ng/ul | 100      |
| 13) Pentachlorophenol       | 17.04 | 265  | 3243     | 14.05  | ng/uL | 95       |
| 14) Phenanthrene            | 17.44 | 178  | 667675   | 20.38  | ng/ul | 99       |
| 16) Anthracene              | 17.52 | 178  | 671983   | 20.30  | ng/ul | 99       |
| 17) Fluoranthene            | 19.43 | 202  | 735573   | 21.63  | ng/ul | 99       |
| 20) Pyrene                  | 19.79 | 202  | 764058   | 18.98  | ng/ul | 99       |
| 21) Benzo(a)anthracene      | 21.62 | 228  | 699998   | 19.90  | ng/ul | 98       |
| 22) Chrysene                | 21.68 | 228  | 668788   | 20.37  | ng/ul | 99       |
| 24) Benzo(b)fluoranthene    | 23.81 | 252  | 671255   | 19.89  | ng/ul | 99       |
| 25) Benzo(k)fluoranthene    | 23.88 | 252  | 679272   | 21.08  | ng/ul | 98       |
| 27) Benzo(a)pyrene          | 24.67 | 252  | 665548   | 21.23  | ng/ul | 99       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.44 | 276  | 777705   | 22.26  | ng/ul | 97       |
| 29) Dibenzo(a,h)anthracene  | 28.51 | 278  | 624746   | 22.75  | ng/ul | 100      |
| 30) Benzo(g,h,i)perylene    | 29.57 | 276  | 642634   | 21.57  | ng/ul | 97       |

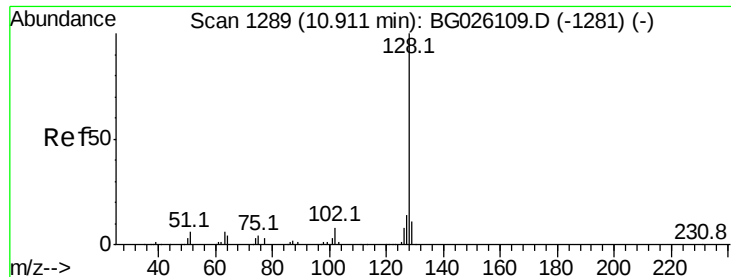
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\Data\BG031317\  
Data File : BG026209.D  
Acq On : 13 Mar 2017 11:53  
Operator : SJ/MA  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 15 05:49:41 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 05:48:38 2017  
Response via : Initial Calibration





#4

Naphthalene

Concen: 19.98 ng/ul

RT: 10.90 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

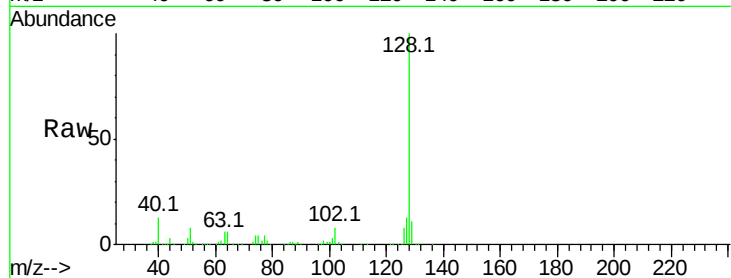
Tot Ion:128 Resp: 373244

Ion Ratio Lower Upper

128 100

129 11.3 9.1 13.7

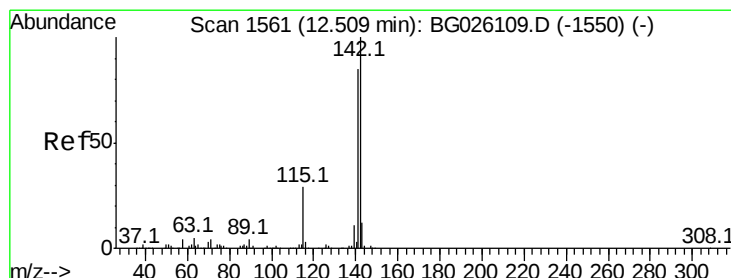
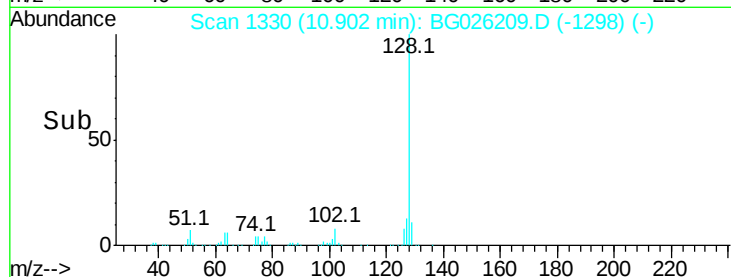
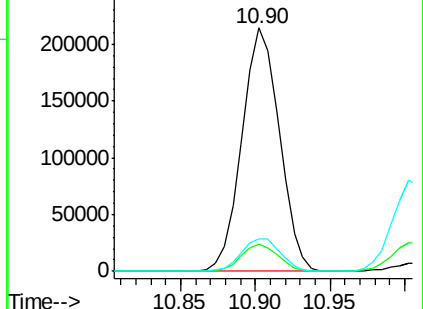
127 13.5 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 21.49 ng/ul

RT: 12.50 min Scan# 1602

Delta R.T. -0.01 min

Lab File: BG026209.D

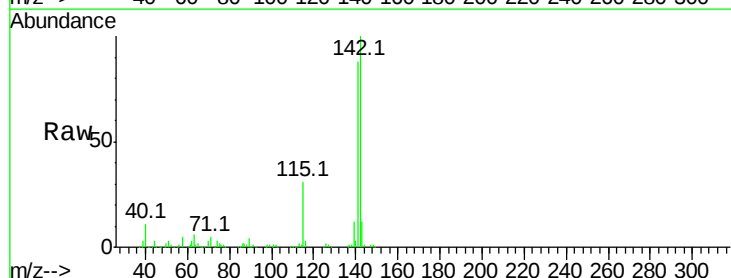
Acq: 13 Mar 2017 11:53

Tgt Ion:142 Resp: 297804

Ion Ratio Lower Upper

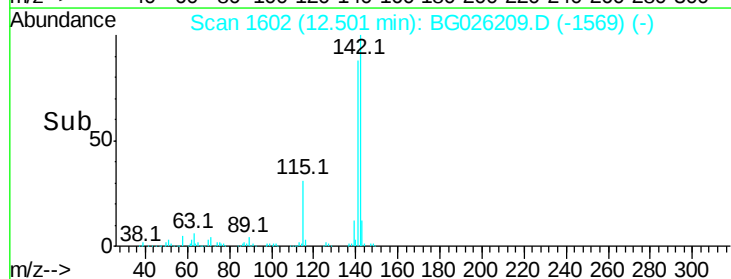
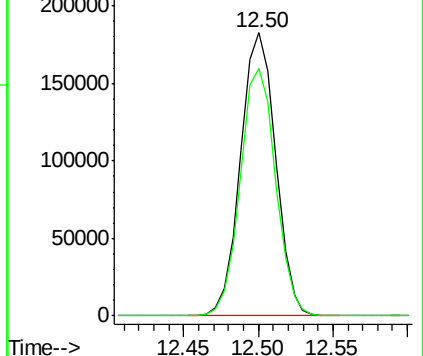
142 100

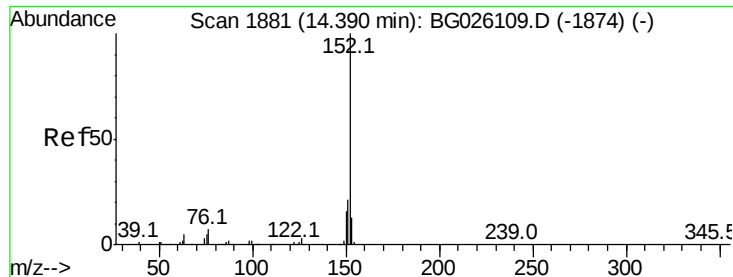
141 87.6 69.8 104.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#8

Acenaphthylene

Concen: 23.14 ng/ul

RT: 14.39 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

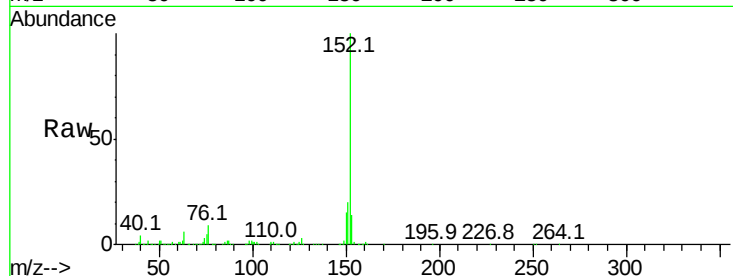
Tot Ion:152 Resp: 498700

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 20.3  | 17.5  | 26.3  |
| 153 | 13.9  | 10.6  | 16.0  |

152 100

151 20.3 17.5 26.3

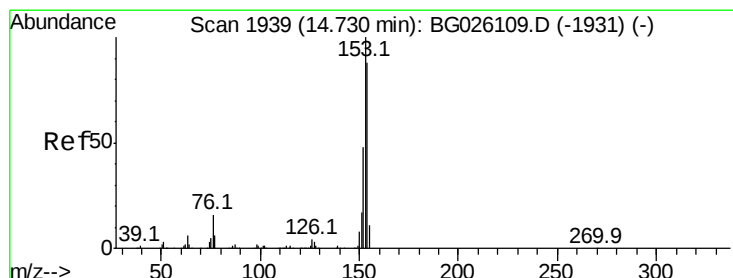
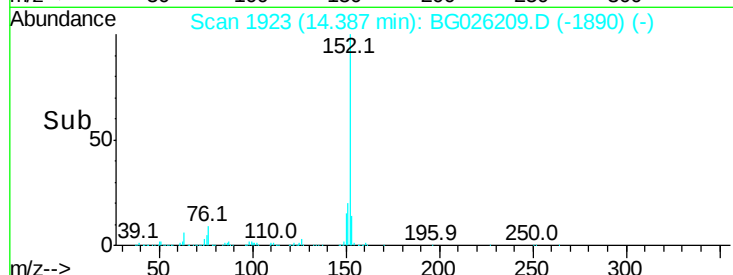
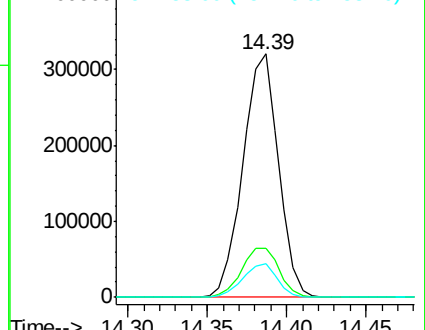
153 13.9 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#9

Acenaphthene

Concen: 23.10 ng/ul

RT: 14.72 min Scan# 1980

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

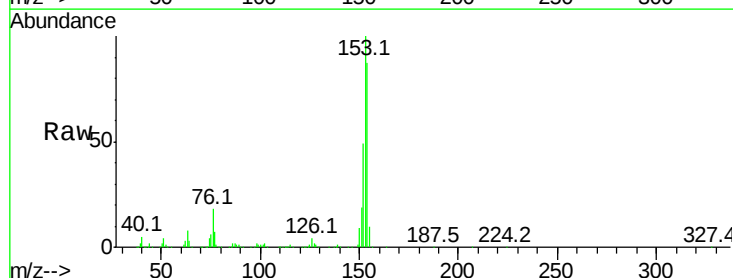
Tgt Ion:153 Resp: 351907

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 49.0  | 37.9  | 56.9  |
| 154 | 86.9  | 71.6  | 107.4 |

153 100

152 49.0 37.9 56.9

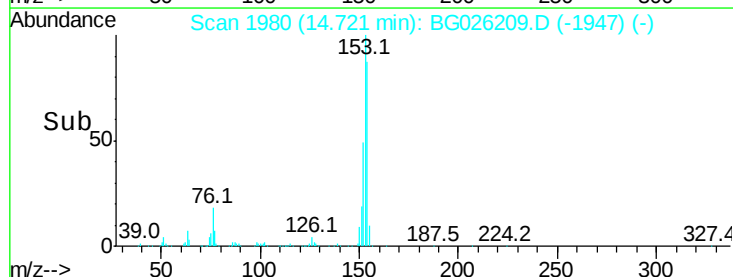
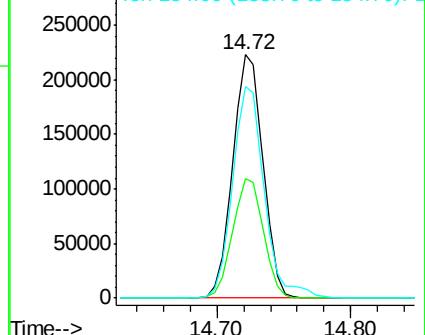
154 86.9 71.6 107.4

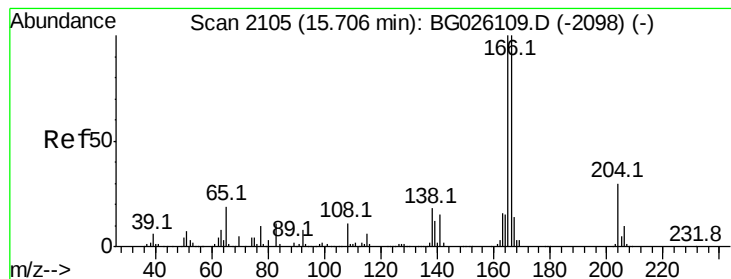


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 23.88 ng/ul

RT: 15.70 min Scan# 2147

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

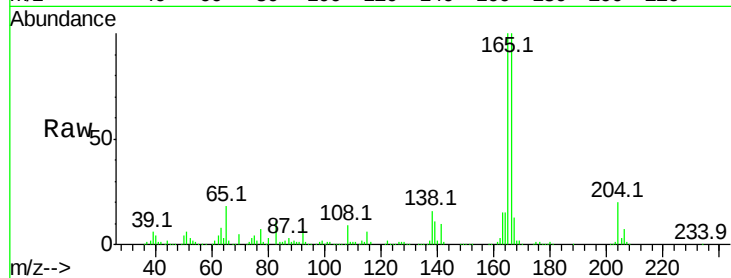
Tot Ion:166 Resp: 410599

Ion Ratio Lower Upper

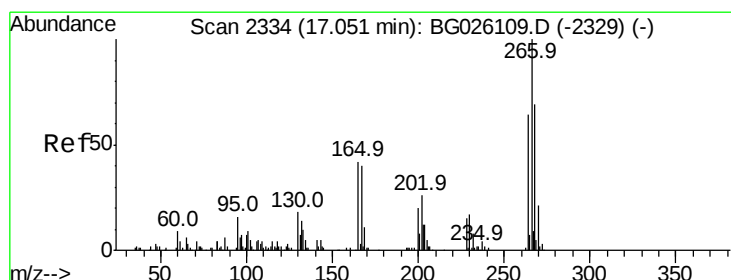
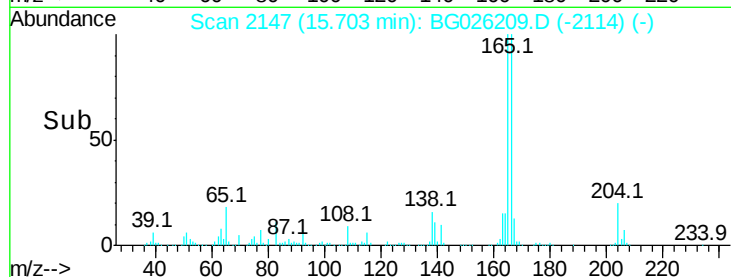
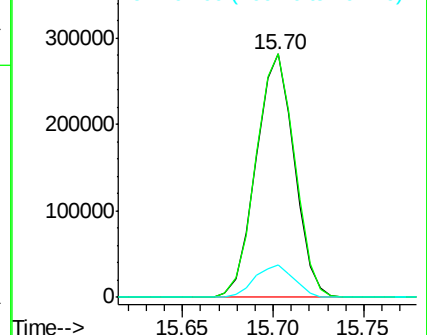
166 100

165 99.9 80.0 120.0

167 13.3 11.6 17.4



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



#13

Pentachlorophenol

Concen: 14.05 ng/uL

RT: 17.04 min Scan# 2375

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

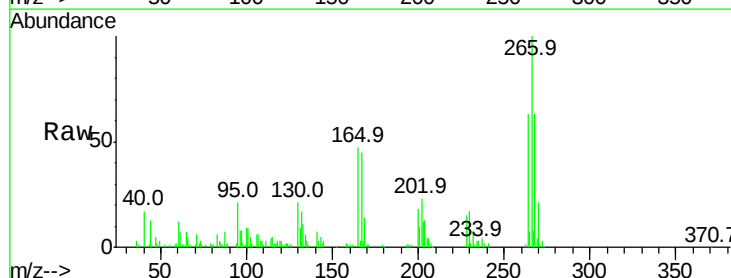
Tgt Ion:265 Resp: 3243

Ion Ratio Lower Upper

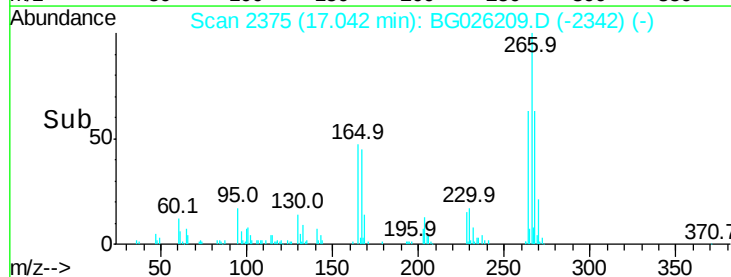
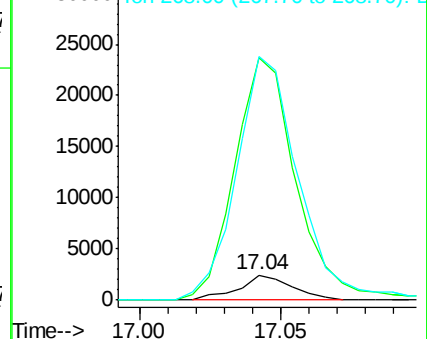
265 100

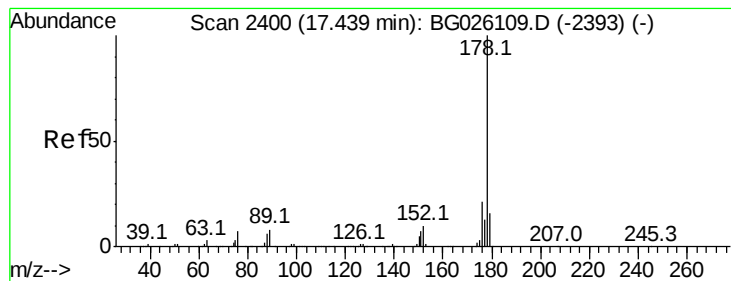
264 959.9 768.4 1152.6

268 962.8 806.4 1209.6



Abundance Ion 265.10 (264.80 to 265.80): E  
Ion 264.10 (263.80 to 264.80): E  
Ion 268.00 (267.70 to 268.70): E





#14

Phenanthrene

Concen: 20.38 ng/ul

RT: 17.44 min Scan# 2442

Delta R.T. -0.00 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

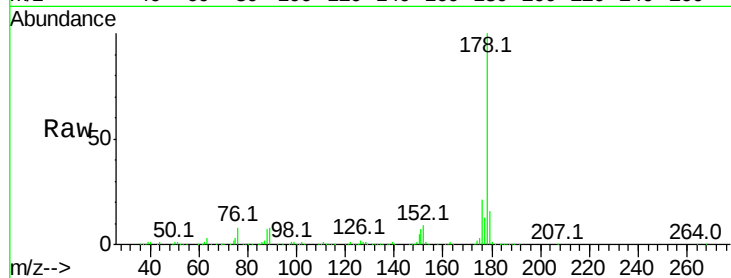
Tot Ion:178 Resp: 667675

Ion Ratio Lower Upper

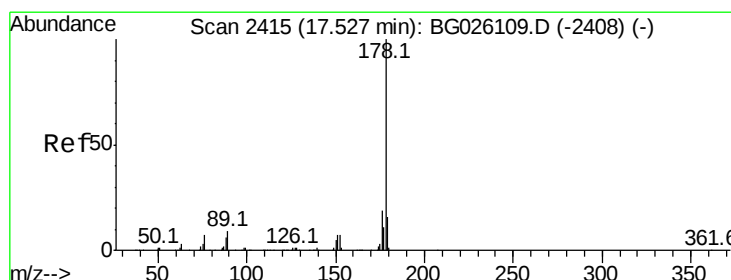
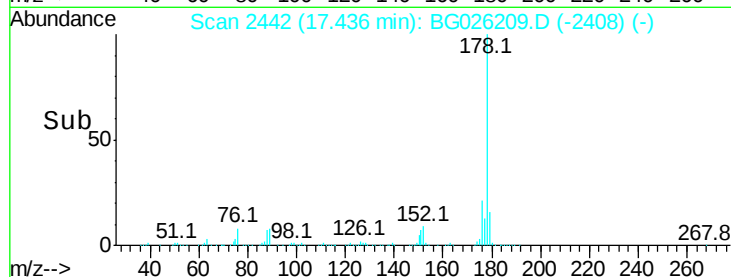
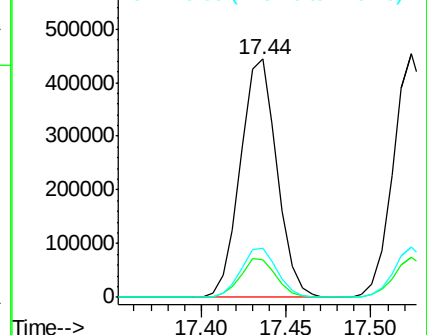
178 100

179 15.5 12.2 18.4

176 20.8 16.4 24.6



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#16

Anthracene

Concen: 20.30 ng/ul

RT: 17.52 min Scan# 2457

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

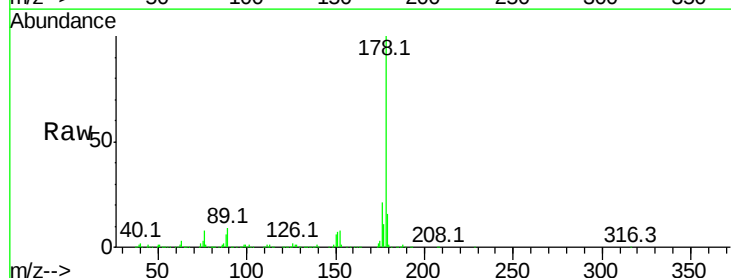
Tgt Ion:178 Resp: 671983

Ion Ratio Lower Upper

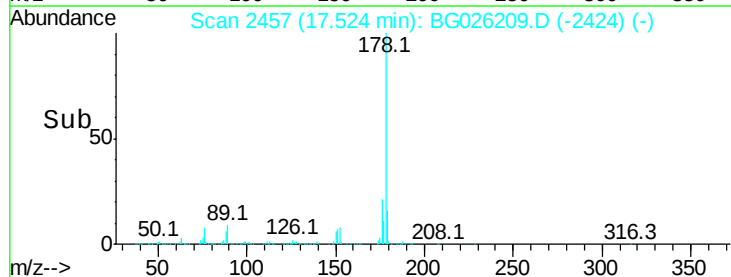
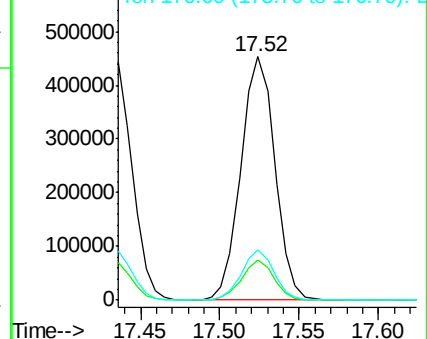
178 100

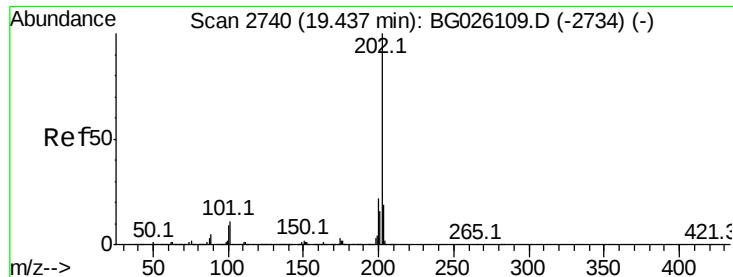
179 16.5 12.7 19.1

176 20.5 15.8 23.8



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

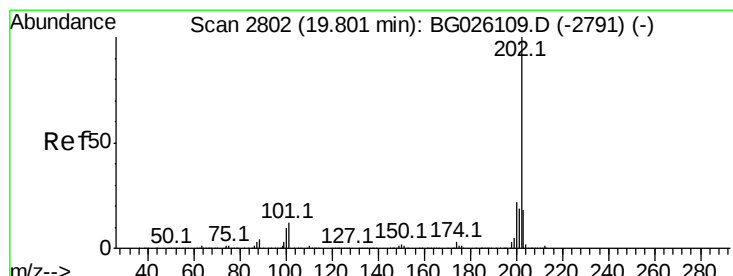
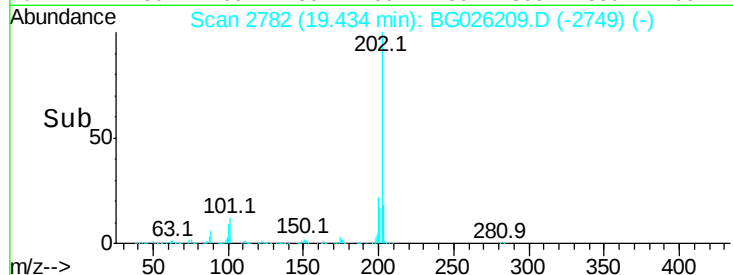
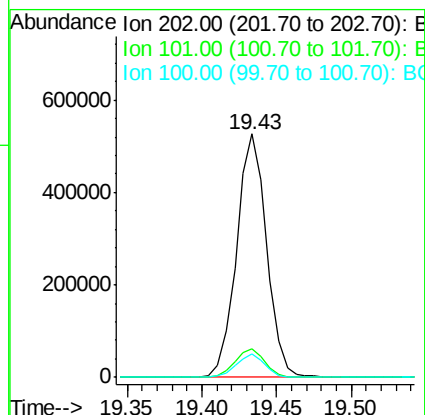
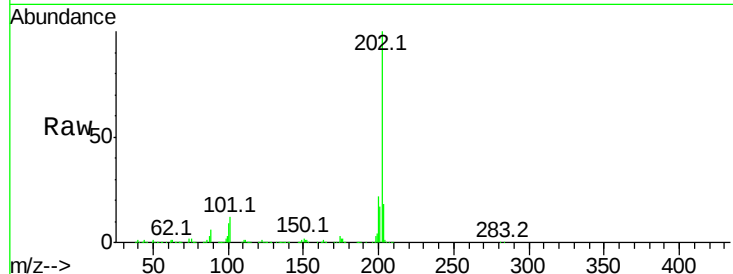




#17  
 Fluoranthene  
 Concen: 21.63 ng/ul  
 RT: 19.43 min Scan# 2782  
 Delta R.T. -0.01 min  
 Lab File: BG026209.D  
 Acq: 13 Mar 2017 11:53

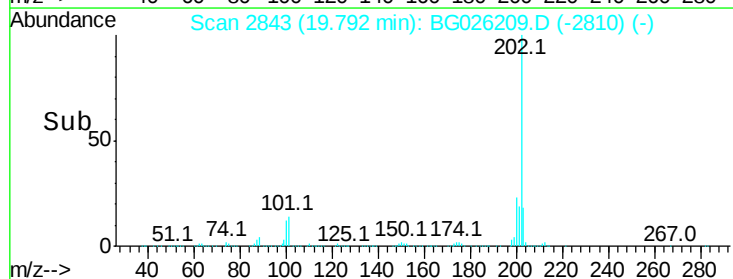
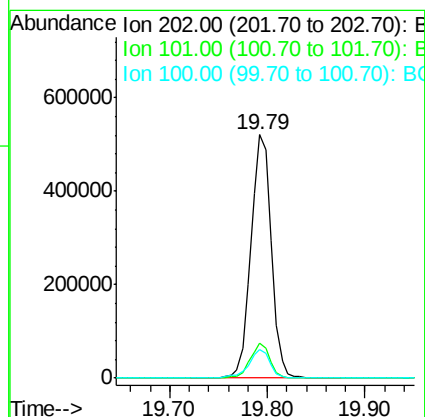
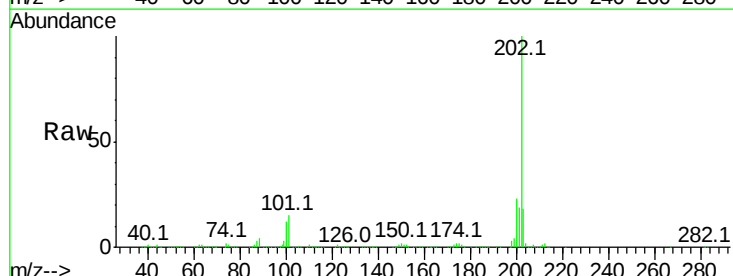
Instrument :  
 BNA\_G  
 ClientSampleId :

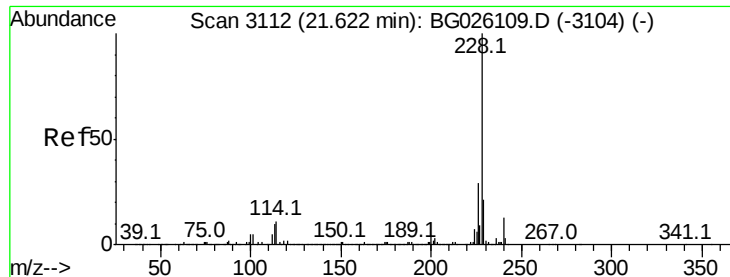
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 9.8   | 14.8  |
| 100     | 9.5   | 7.5   | 11.3  |



#20  
 Pyrene  
 Concen: 18.98 ng/ul  
 RT: 19.79 min Scan# 2843  
 Delta R.T. -0.01 min  
 Lab File: BG026209.D  
 Acq: 13 Mar 2017 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.5  | 11.2  | 16.8  |
| 100     | 11.6  | 9.8   | 14.6  |





#21

Benzo(a)anthracene

Concen: 19.90 ng/ul

RT: 21.62 min Scan# 3154

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

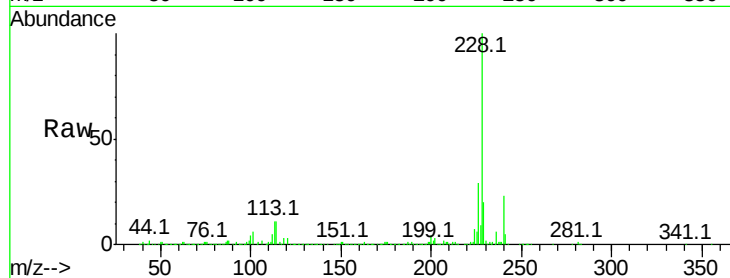
Tot Ion:228 Resp: 699998

Ion Ratio Lower Upper

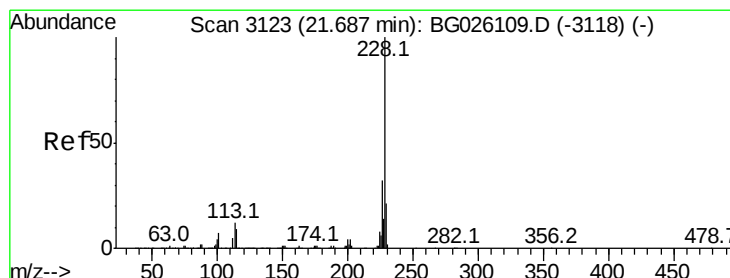
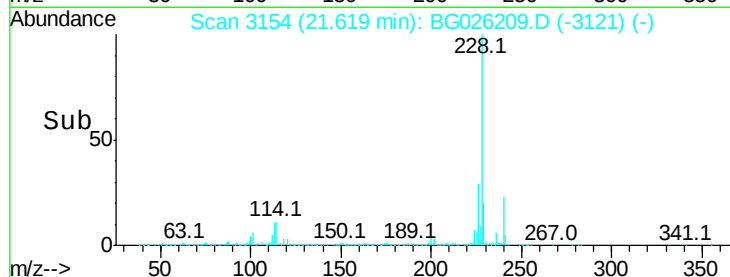
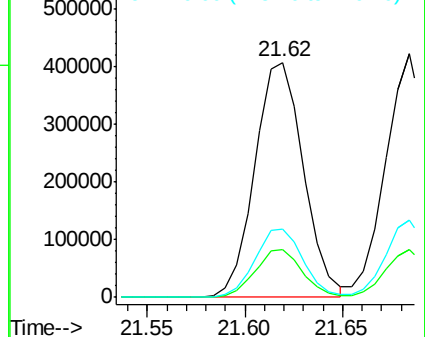
228 100

229 20.2 15.9 23.9

226 29.2 22.1 33.1



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 20.37 ng/ul

RT: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

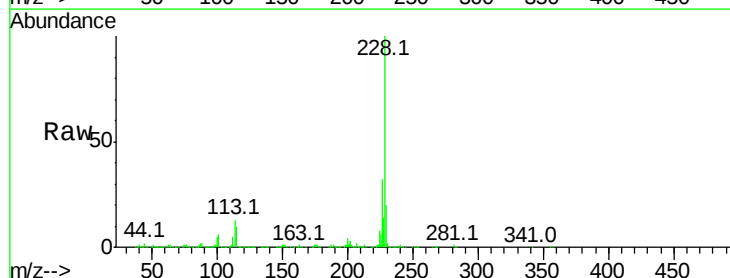
Tgt Ion:228 Resp: 668788

Ion Ratio Lower Upper

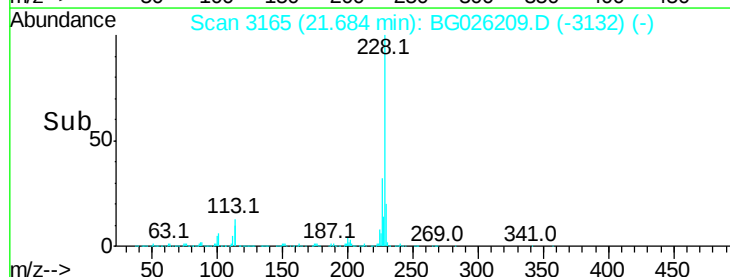
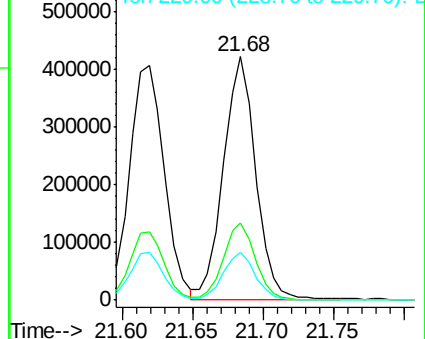
228 100

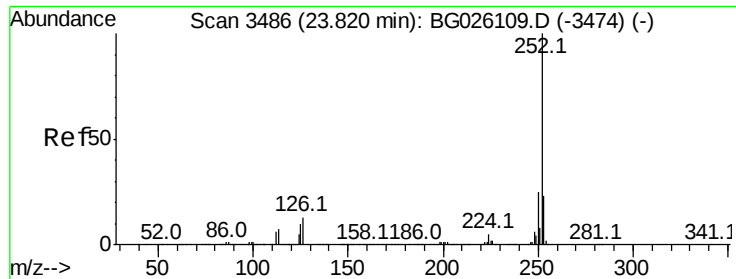
226 31.7 25.0 37.6

229 19.7 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#24

Benzo(b)fluoranthene

Concen: 19.89 ng/ul

RT: 23.81 min Scan# 3527

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

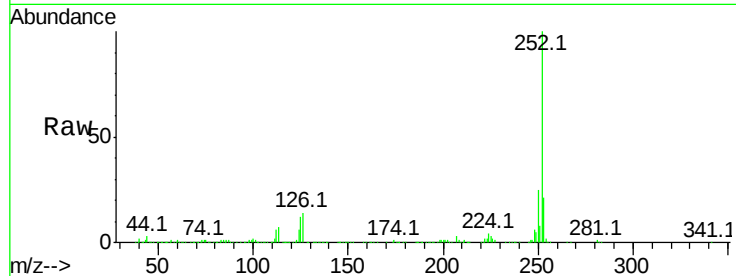
Tot Ion:252 Resp: 671255

Ion Ratio Lower Upper

252 100

253 21.3 17.8 26.6

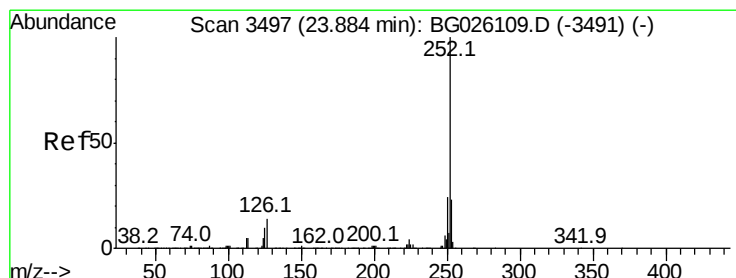
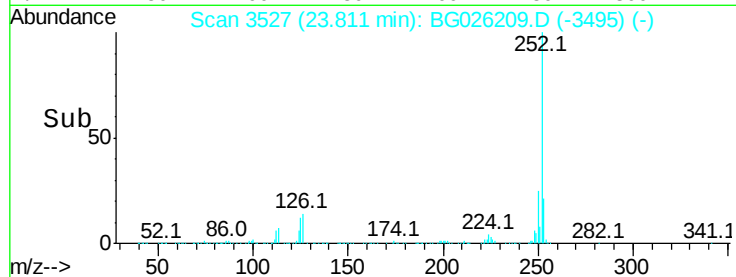
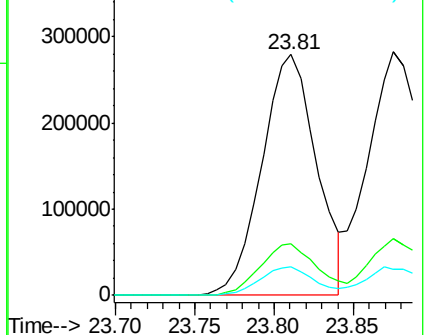
125 11.7 9.4 14.0



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



#25

Benzo(k)fluoranthene

Concen: 21.08 ng/ul

RT: 23.88 min Scan# 3538

Delta R.T. -0.01 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

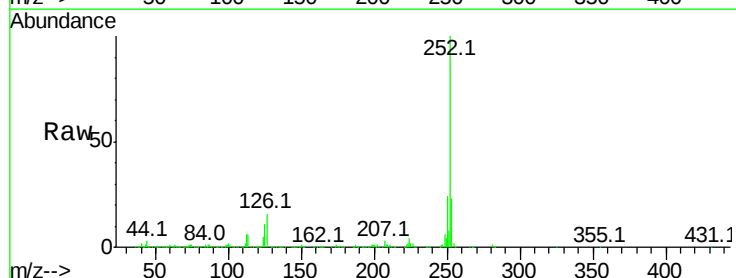
Tgt Ion:252 Resp: 679272

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

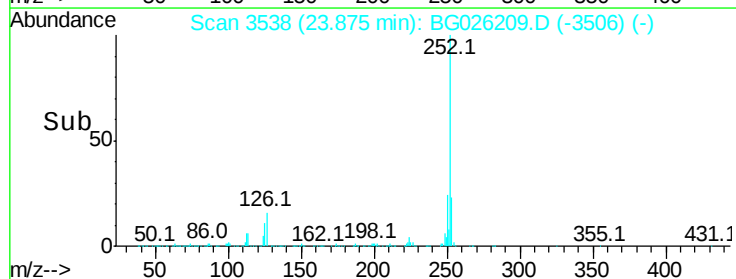
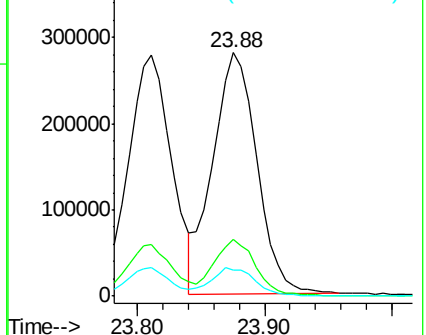
125 10.9 8.8 13.2

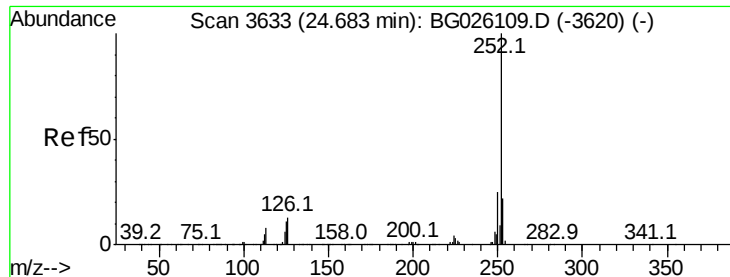


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 21.23 ng/ul

RT: 24.67 min Scan# 3673

Delta R.T. -0.02 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

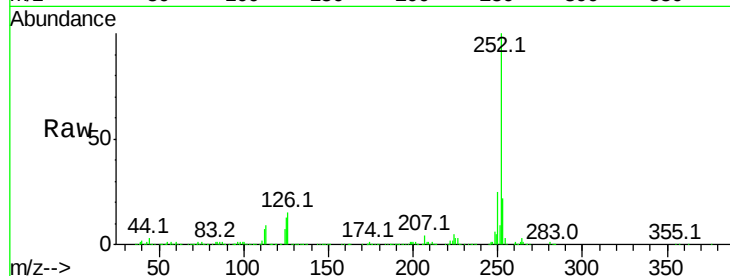
Tot Ion:252 Resp: 665548

Ion Ratio Lower Upper

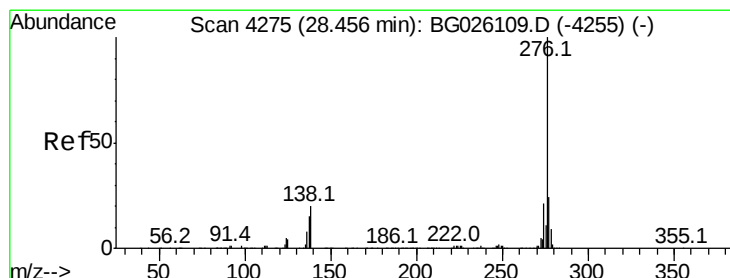
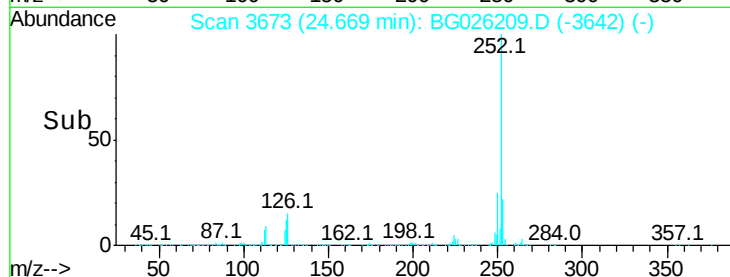
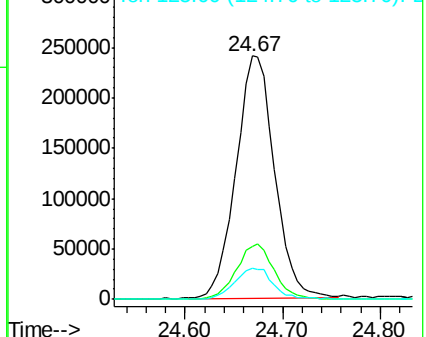
252 100

253 21.8 17.1 25.7

125 12.6 9.4 14.2



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



#28

Indeno(1,2,3-cd)pyrene

Concen: 22.26 ng/ul

RT: 28.44 min Scan# 4315

Delta R.T. -0.02 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

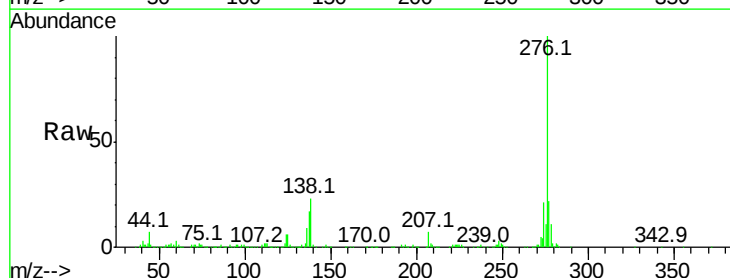
Tgt Ion:276 Resp: 777705

Ion Ratio Lower Upper

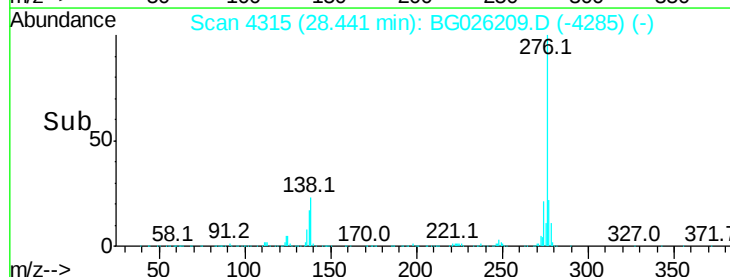
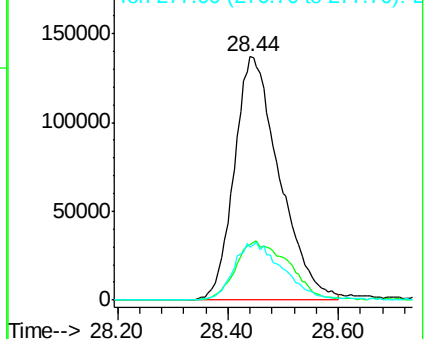
276 100

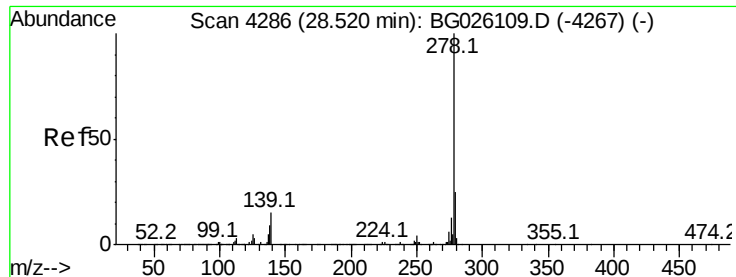
138 22.6 17.8 26.6

277 21.8 19.4 29.0



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





#29

Dibenzo(a,h)anthracene

Concen: 22.75 ng/ul

RT: 28.51 min Scan# 4326

Delta R.T. -0.02 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

Instrument :

BNA\_G

ClientSampleId :

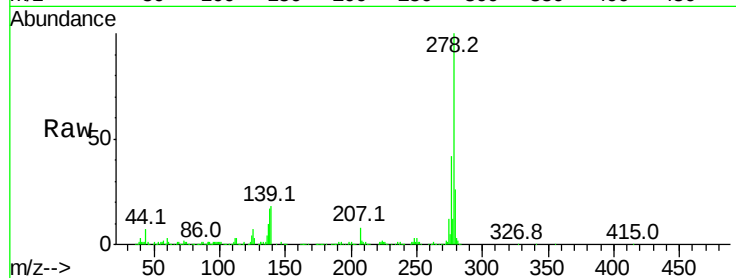
Tot Ion:278 Resp: 624746

Ion Ratio Lower Upper

278 100

139 17.9 14.0 21.0

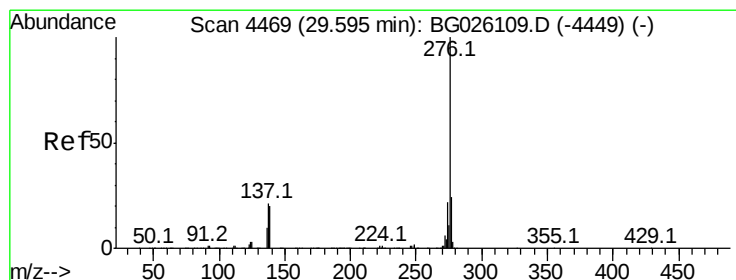
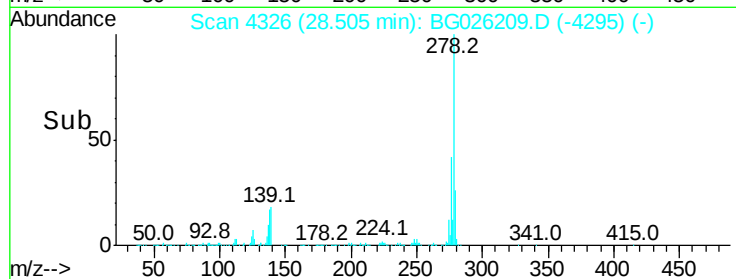
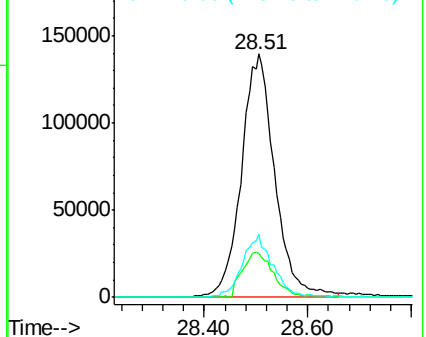
279 25.8 20.6 31.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 21.57 ng/ul

RT: 29.57 min Scan# 4508

Delta R.T. -0.03 min

Lab File: BG026209.D

Acq: 13 Mar 2017 11:53

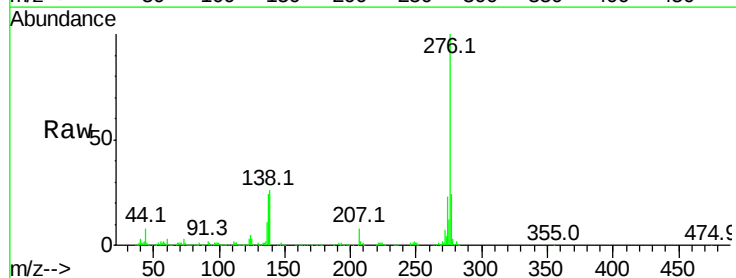
Tgt Ion:276 Resp: 642634

Ion Ratio Lower Upper

276 100

138 25.8 19.0 28.4

277 24.2 19.7 29.5



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

