

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101017\  
 Data File : BG029137.D  
 Acq On : 10 Oct 2017 12:26  
 Operator : SJ/JU  
 Sample : I5577-04MSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAH76MSD

Quant Time: Oct 11 04:16:21 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG100717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 11 04:15:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.21  | 152  | 42420    | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.03 | 136  | 179821   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.83 | 164  | 119075   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.57 | 188  | 267128   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.84 | 240  | 284451   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.20 | 264  | 297334   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 14.52 | 160  | 313500   | 25.31 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.82 | 176  | 248073   | 27.62 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.66 | 188  | 359192   | 27.76 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.93 | 212  | 403805   | 27.75 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.97 | 264  | 371298   | 26.07 | ng/ul | 0.00     |

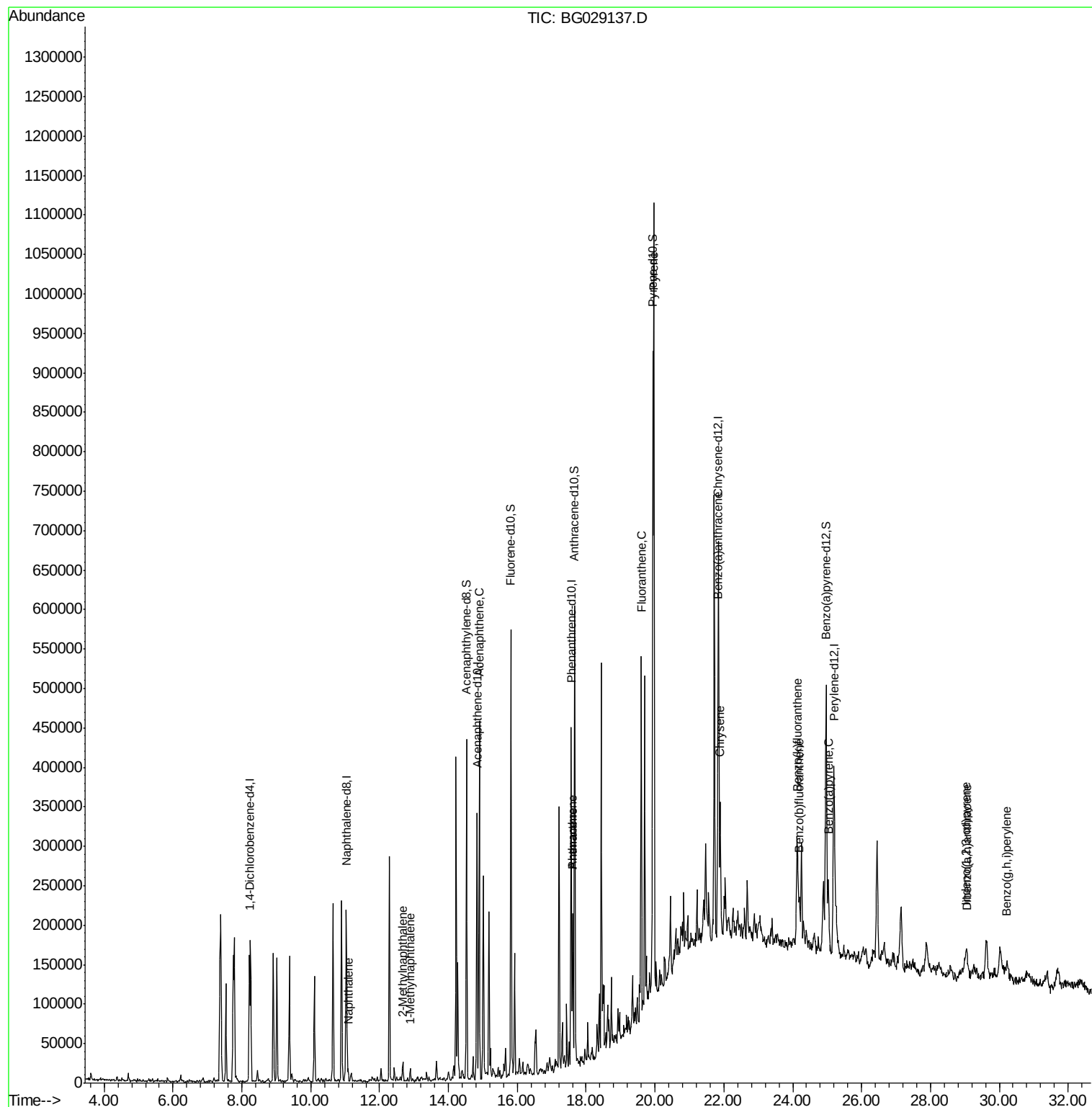
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 3) Naphthalene             | 11.09 | 128  | 12904    | 1.378  | ng/ul# | 88     |
| 4) 2-Methylnaphthalene     | 12.67 | 142  | 11732    | 1.651  | ng/ul  | 92     |
| 5) 1-Methylnaphthalene     | 12.88 | 142  | 8203     | 1.210  | ng/ul# | 82     |
| 9) Acenaphthene            | 14.89 | 153  | 199300   | 24.561 | ng/ul  | 95     |
| 13) Phenanthrene           | 17.61 | 178  | 124187   | 8.716  | ng/ul  | 98     |
| 15) Anthracene             | 17.61 | 178  | 124187   | 8.519  | ng/ul  | 98     |
| 16) Fluoranthene           | 19.61 | 202  | 259891   | 15.560 | ng/ul# | 89     |
| 19) Pyrene                 | 19.96 | 202  | 618023   | 34.855 | ng/ul# | 89     |
| 20) Benzo(a)anthracene     | 21.83 | 228  | 134916   | 8.054  | ng/ul  | 95     |
| 21) Chrysene               | 21.89 | 228  | 133204   | 8.684  | ng/ul  | 96     |
| 23) Benzo(b)fluoranthene   | 24.19 | 252  | 70654    | 3.972  | ng/ul  | 97     |
| 24) Benzo(k)fluoranthene   | 24.12 | 252  | 183199   | 10.553 | ng/ul# | 95     |
| 26) Benzo(a)pyrene         | 25.03 | 252  | 107078   | 6.198  | ng/ul# | 97     |
| 27) Indeno(1,2,3-cd)pyrene | 29.03 | 276  | 71121    | 3.627  | ng/ul# | 87     |
| 28) Dibenzo(a,h)anthracene | 29.07 | 278  | 19870    | 1.224  | ng/ul# | 89     |
| 29) Benzo(a,h,i)perylene   | 30.22 | 276  | 49301    | 3.049  | ng/ul# | 91     |

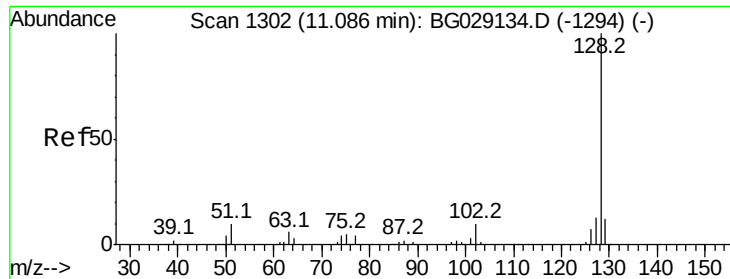
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 11 04:15:46 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.378 ng/ul

RT: 11.09 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

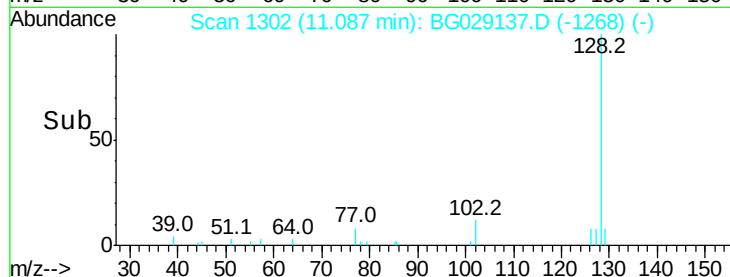
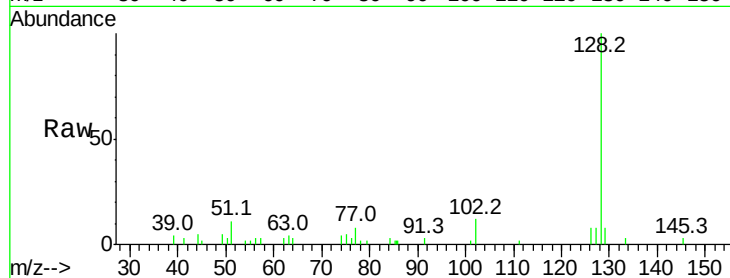
Tot Ion:128 Resp: 12904

Ion Ratio Lower Upper

128 100

129 7.6 8.7 13.1#

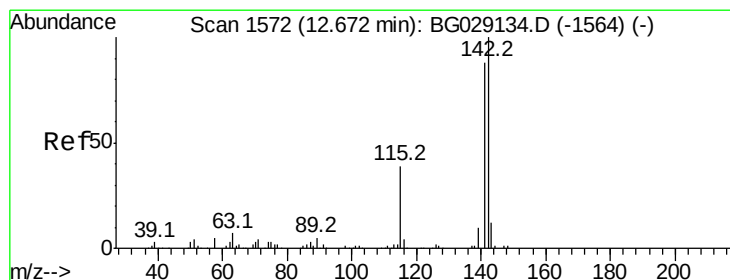
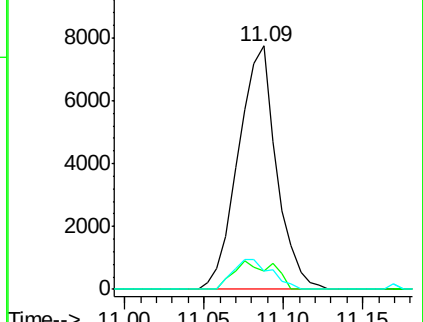
127 7.6 10.6 16.0#



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



#4

2-Methylnaphthalene

Concen: 1.651 ng/ul

RT: 12.67 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BG029137.D

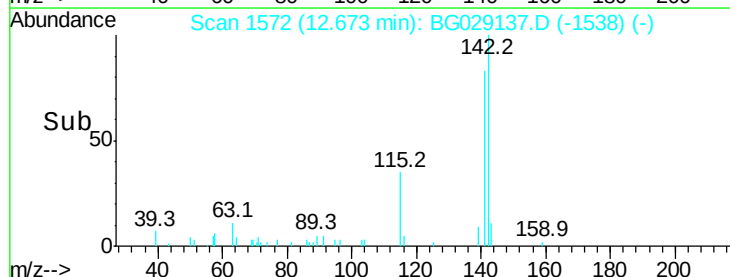
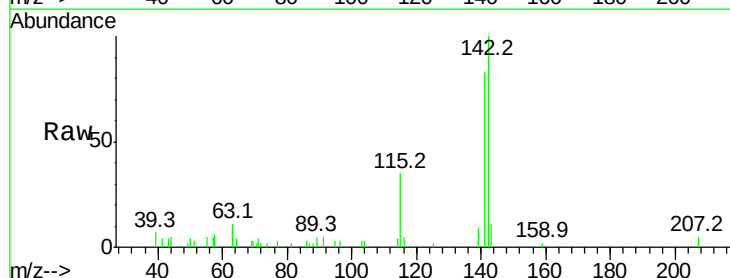
Acq: 10 Oct 2017 12:26

Tgt Ion:142 Resp: 11732

Ion Ratio Lower Upper

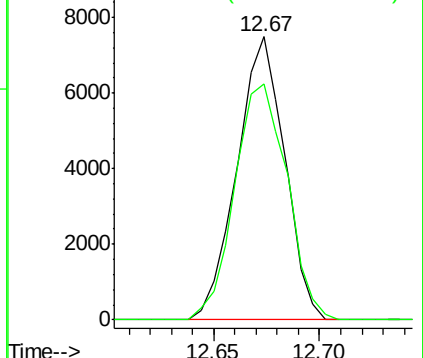
142 100

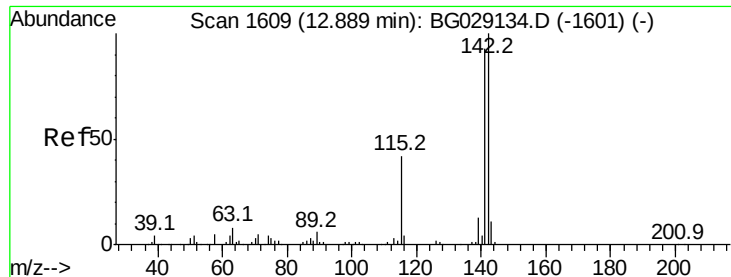
141 83.4 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 1.210 ng/ul

RT: 12.88 min Scan# 1608

Delta R.T. -0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

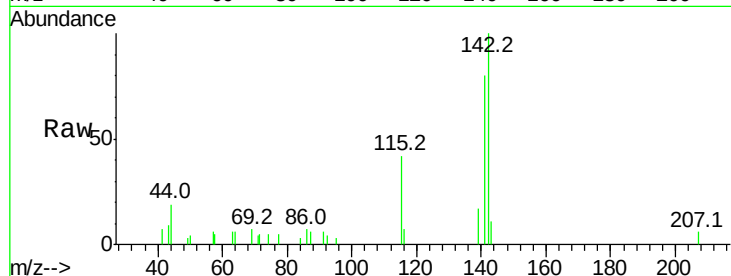
Tot Ion:142 Resp: 8203

Ion Ratio Lower Upper

142 100

141 80.3 79.3 118.9

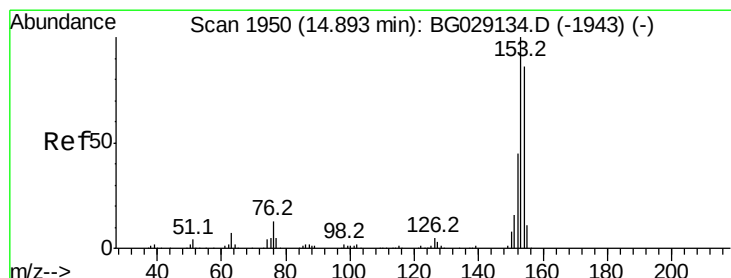
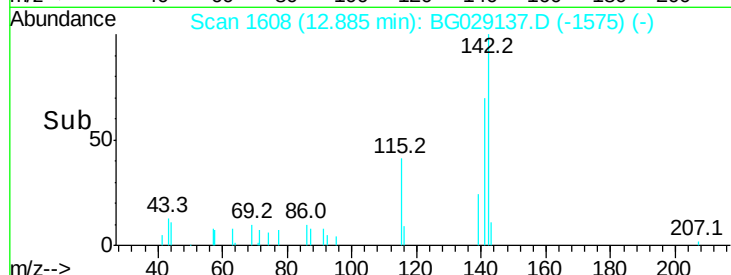
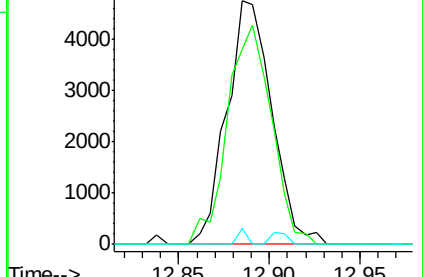
116 6.6 4.2 6.2#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#9

Acenaphthene

Concen: 24.561 ng/ul

RT: 14.89 min Scan# 1950

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

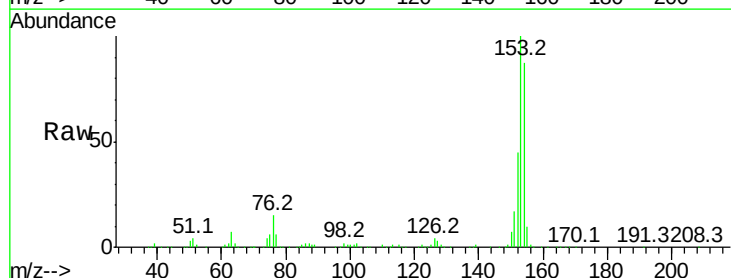
Tgt Ion:153 Resp: 199300

Ion Ratio Lower Upper

153 100

152 45.2 39.0 58.6

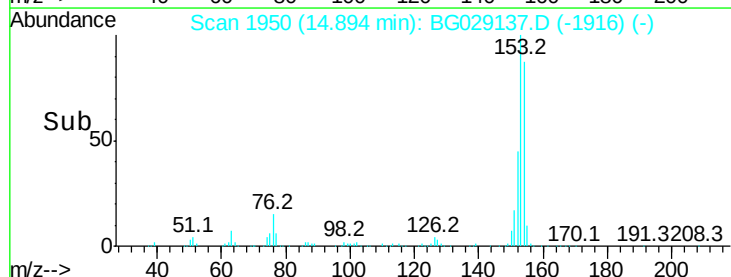
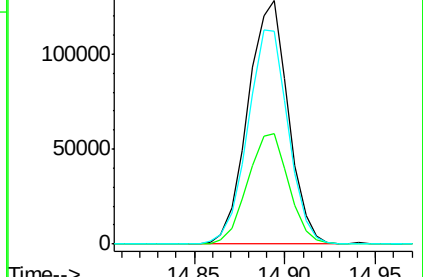
154 87.2 66.8 100.2

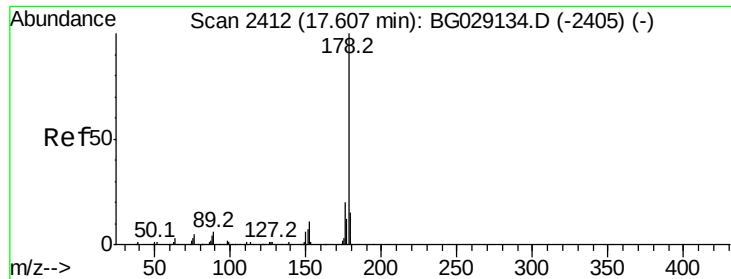


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#13

Phenanthrene

Concen: 8.716 ng/ul

RT: 17.61 min Scan# 2412

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

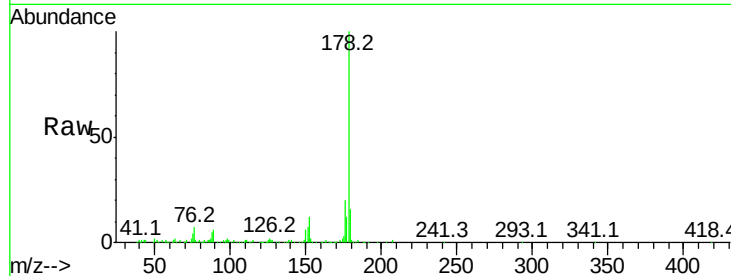
Tot Ion:178 Resp: 124187

Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

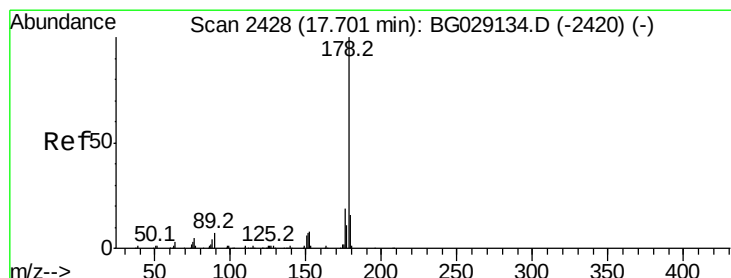
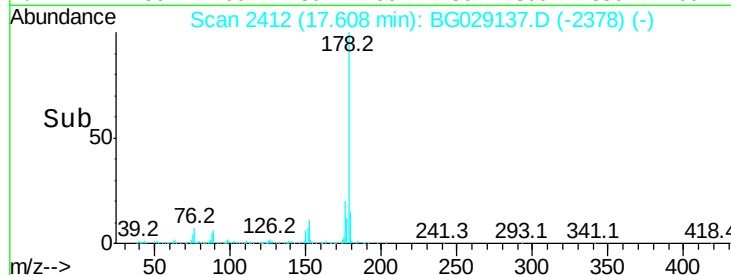
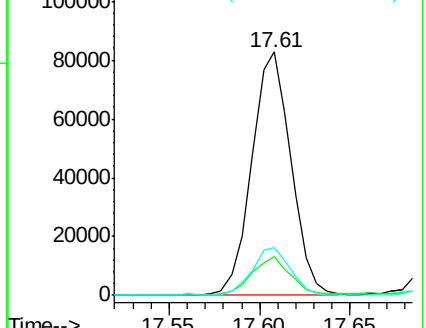
176 19.9 15.1 22.7



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



#15

Anthracene

Concen: 8.519 ng/ul

RT: 17.61 min Scan# 2412

Delta R.T. -0.09 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

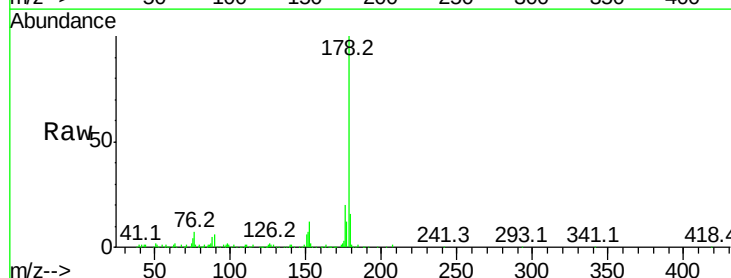
Tgt Ion:178 Resp: 124187

Ion Ratio Lower Upper

178 100

179 15.7 11.8 17.8

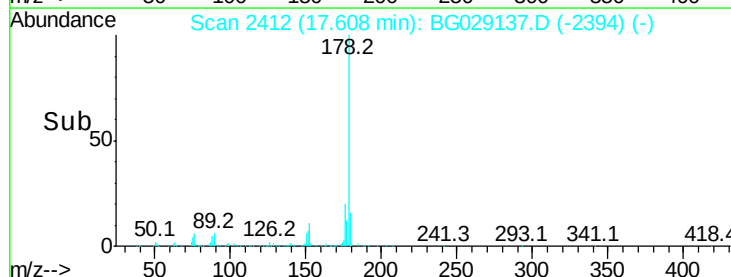
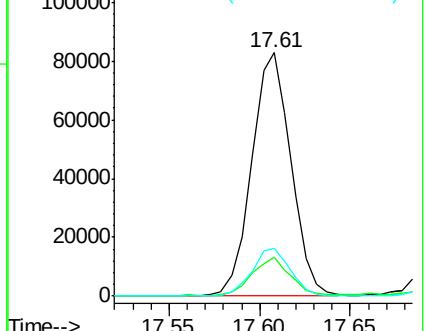
176 19.9 15.2 22.8

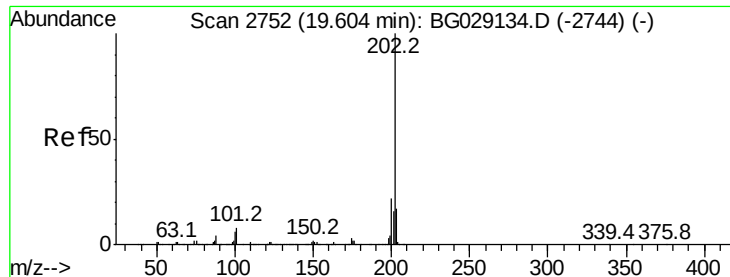


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 15.560 ng/ul

RT: 19.61 min Scan# 2752

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

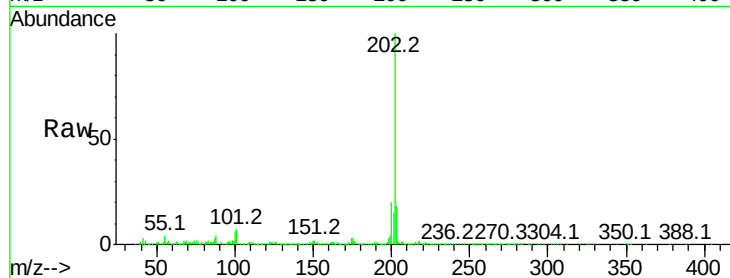
Tot Ion:202 Resp: 259891

Ion Ratio Lower Upper

202 100

101 7.1 9.9 14.9#

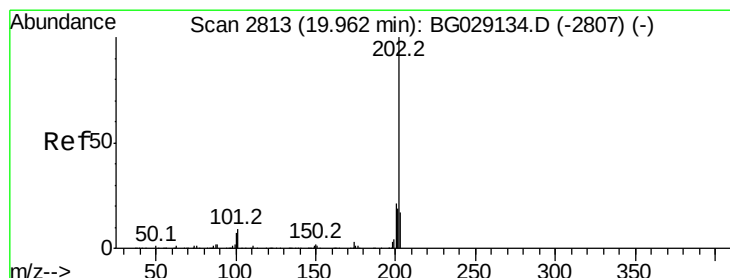
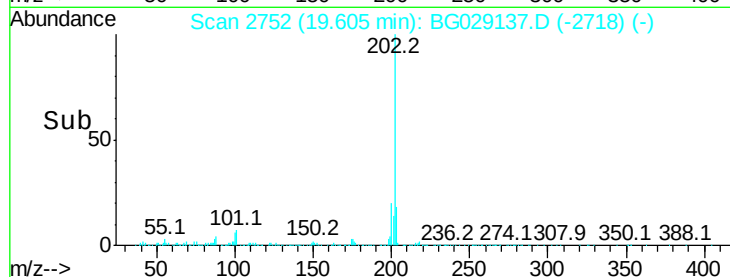
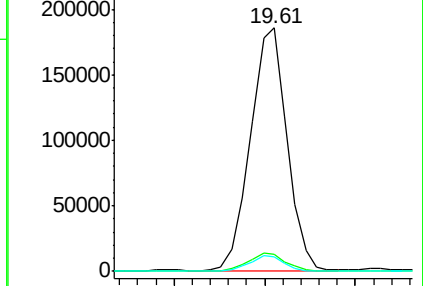
100 6.1 7.4 11.0#



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): B



#19

Pyrene

Concen: 34.855 ng/ul

RT: 19.96 min Scan# 2813

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

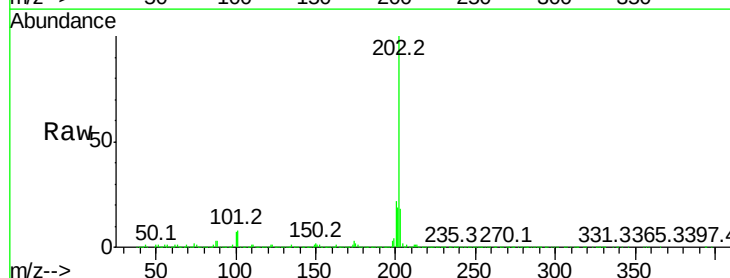
Tgt Ion:202 Resp: 618023

Ion Ratio Lower Upper

202 100

101 8.3 11.0 16.4#

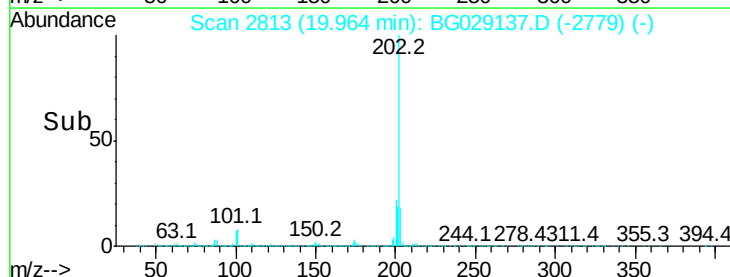
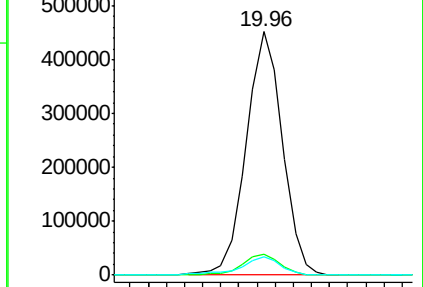
100 7.4 8.1 12.1#

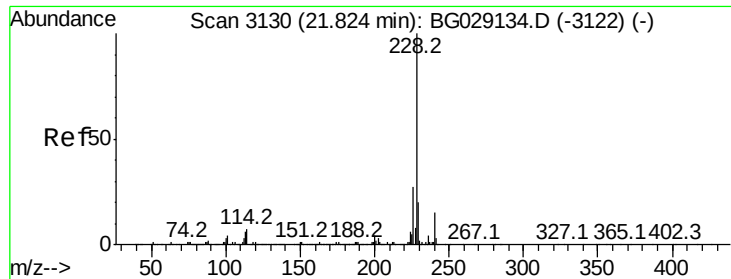


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 8.054 ng/ul

RT: 21.83 min Scan# 3130

Delta R.T. 0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

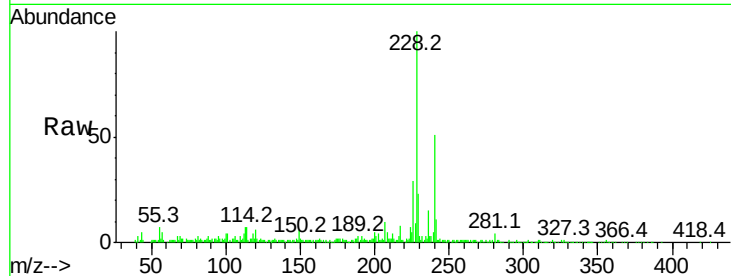
BNA\_G

ClientSampleId :

DAH76MSD

Tot Ion:228 Resp: 134916

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 22.8  | 15.7  | 23.5  |
| 226 | 28.5  | 21.1  | 31.7  |

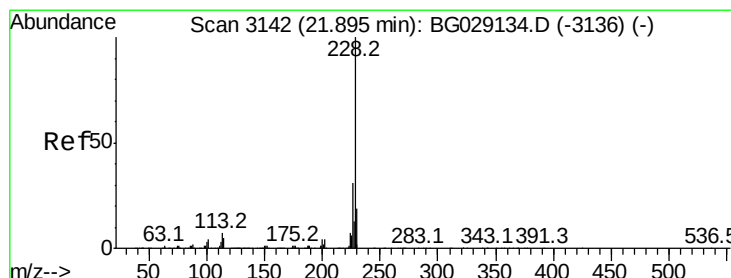
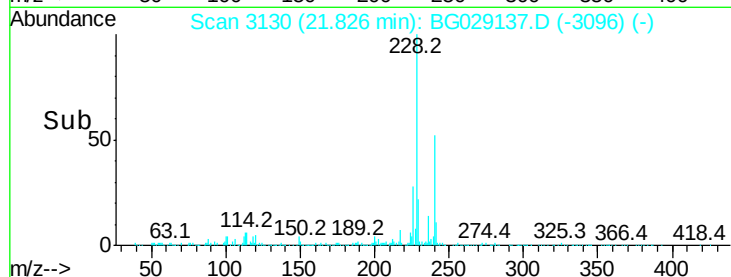
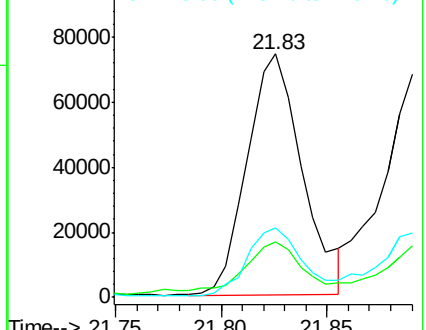


Abundance

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



#21

Chrysene

Concen: 8.684 ng/ul

RT: 21.89 min Scan# 3141

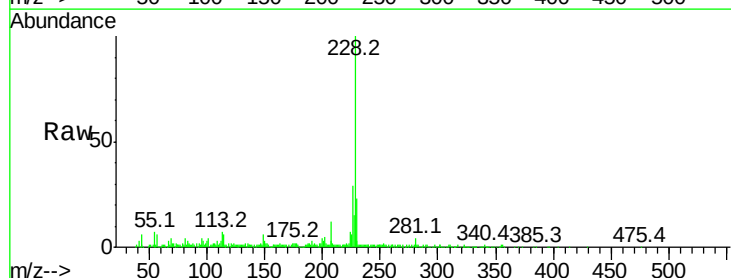
Delta R.T. -0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Tgt Ion:228 Resp: 133204

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.2  | 24.5  | 36.7  |
| 229 | 23.1  | 15.8  | 23.8  |

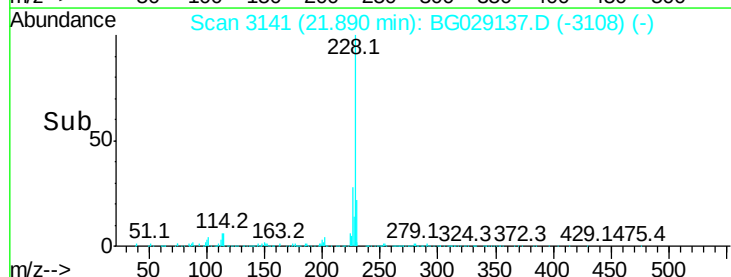
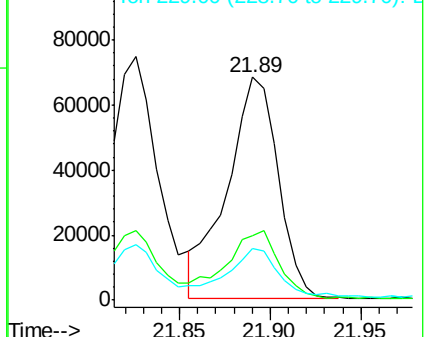


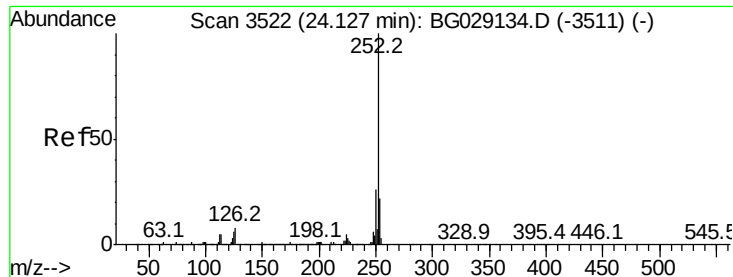
Abundance

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





#23

Benzo(b)fluoranthene

Concen: 3.972 ng/ul

RT: 24.19 min Scan# 3533

Delta R.T. 0.07 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

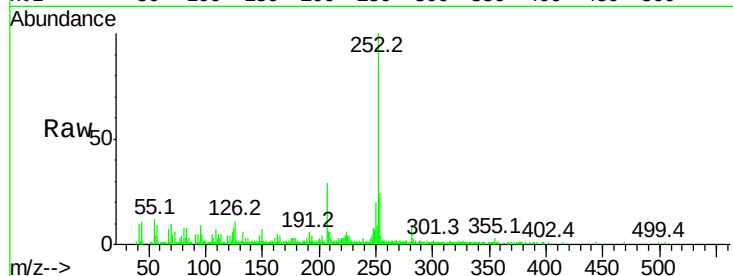
Tot Ion:252 Resp: 70654

Ion Ratio Lower Upper

252 100

253 23.6 18.0 27.0

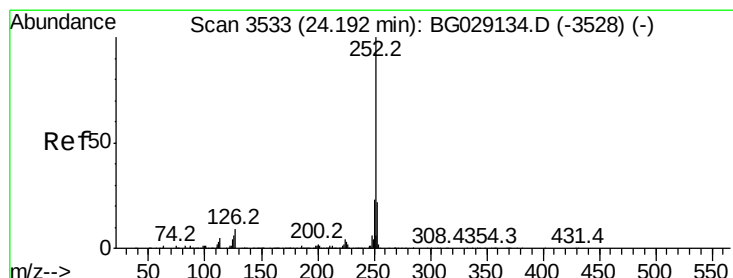
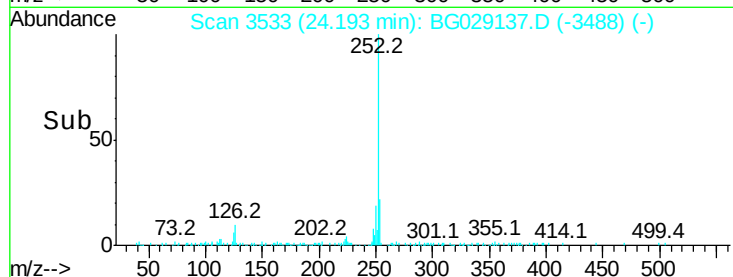
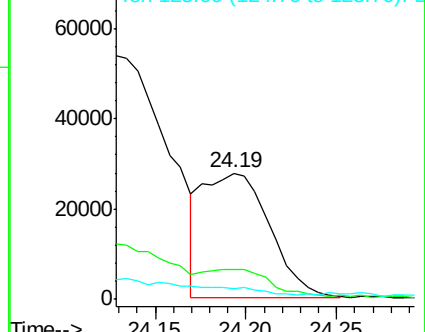
125 8.4 8.0 12.0



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



#24

Benzo(k)fluoranthene

Concen: 10.553 ng/ul

RT: 24.12 min Scan# 3521

Delta R.T. -0.07 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

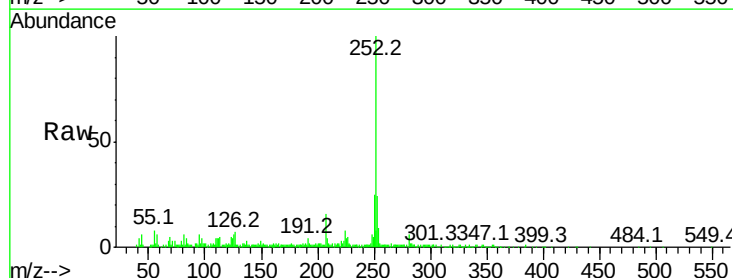
Tgt Ion:252 Resp: 183199

Ion Ratio Lower Upper

252 100

253 24.0 18.0 27.0

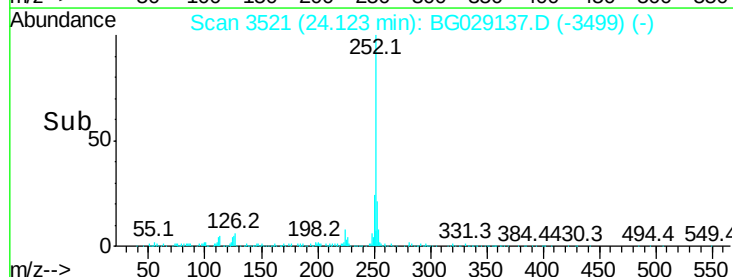
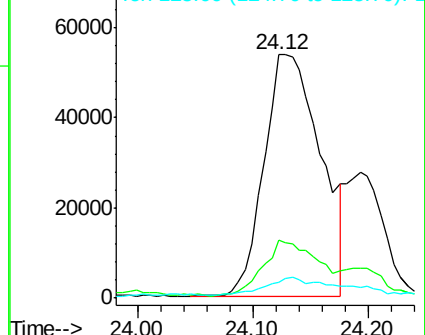
125 6.5 8.1 12.1#



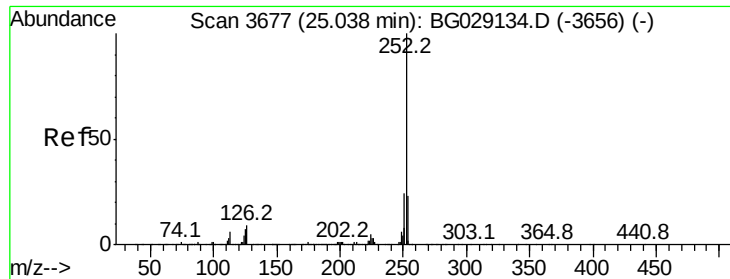
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#26

Benzo(a)pyrene

Concen: 6.198 ng/ul

RT: 25.03 min Scan# 3676

Delta R.T. -0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

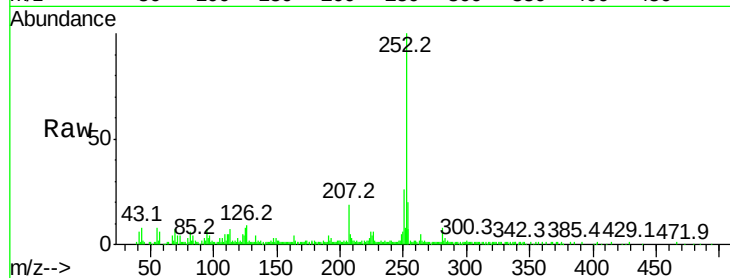
Tot Ion:252 Resp: 107078

Ion Ratio Lower Upper

252 100

253 20.4 17.2 25.8

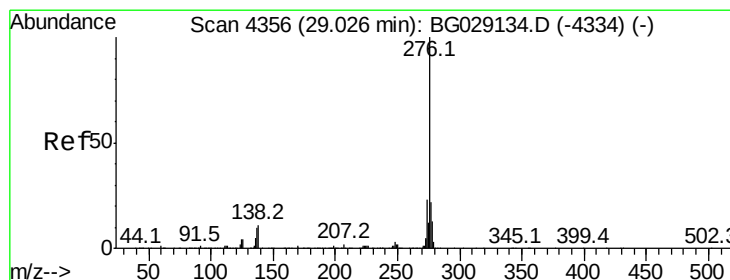
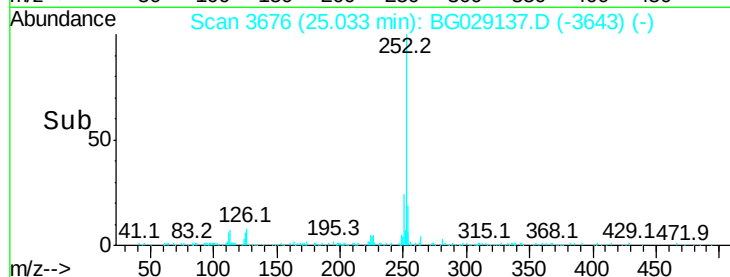
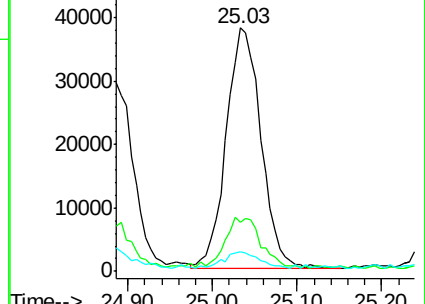
125 8.2 8.2 12.4#



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

Indeno(1,2,3-cd)pyrene

Concen: 3.627 ng/ul

RT: 29.03 min Scan# 4357

Delta R.T. 0.01 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

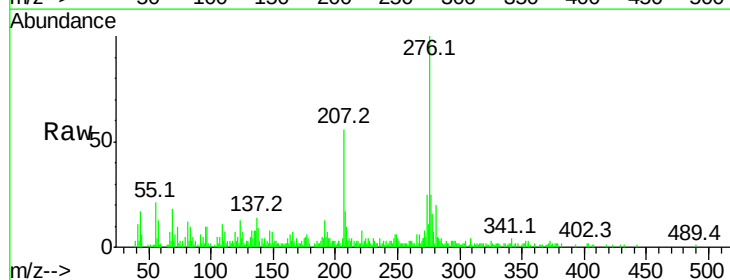
Tgt Ion:276 Resp: 71121

Ion Ratio Lower Upper

276 100

138 9.0 14.4 21.6#

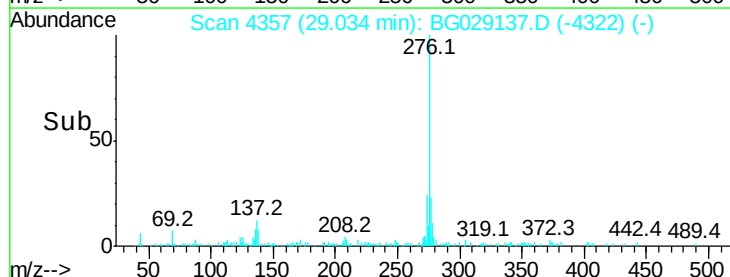
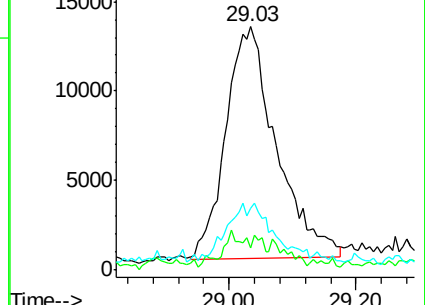
277 25.5 18.0 27.0

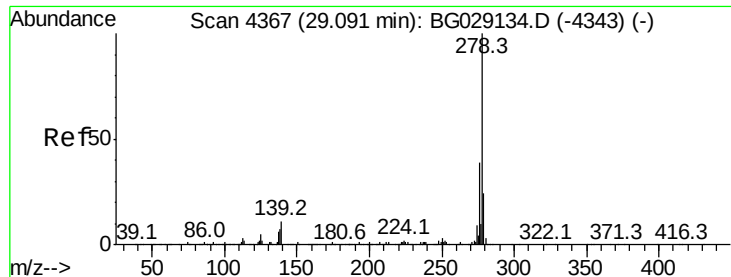


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 1.224 ng/ul

RT: 29.07 min Scan# 4364

Delta R.T. -0.02 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Instrument :

BNA\_G

ClientSampleId :

DAH76MSD

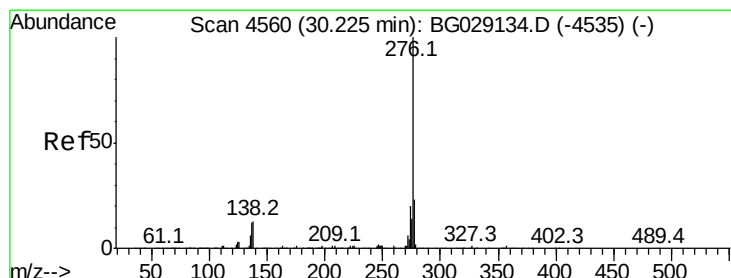
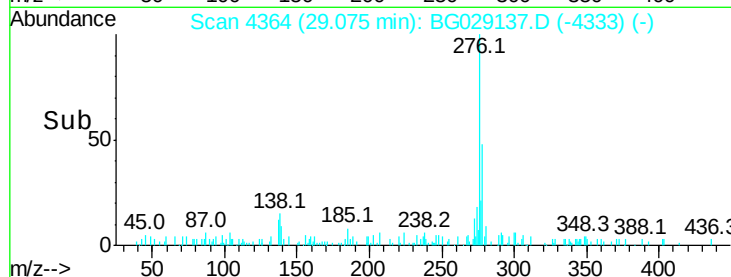
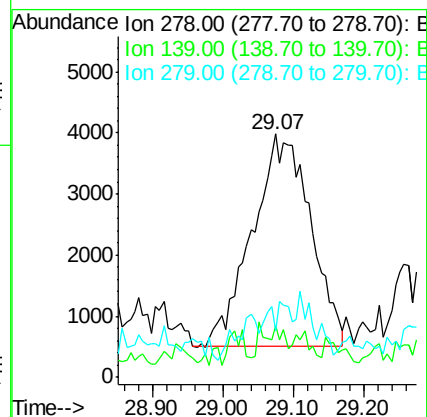
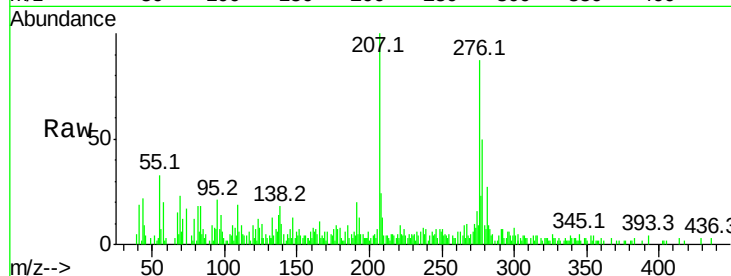
Tot Ion:278 Resp: 19870

Ion Ratio Lower Upper

278 100

139 21.0 12.2 18.4#

279 19.1 19.2 28.8#



#29

Benzo(g,h,i)perylene

Concen: 3.049 ng/ul

RT: 30.22 min Scan# 4559

Delta R.T. -0.00 min

Lab File: BG029137.D

Acq: 10 Oct 2017 12:26

Tgt Ion:276 Resp: 49301

Ion Ratio Lower Upper

276 100

138 16.2 15.3 22.9

277 29.0 19.0 28.4#

