

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\  
 Data File : BG046307.D  
 Acq On : 17 Aug 2020 22:35  
 Operator : CG/JU  
 Sample : L3632-20  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BFM98

Quant Time: Aug 18 01:26:31 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG081320PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 13:50:19 2020  
 Response via : Initial Calibration

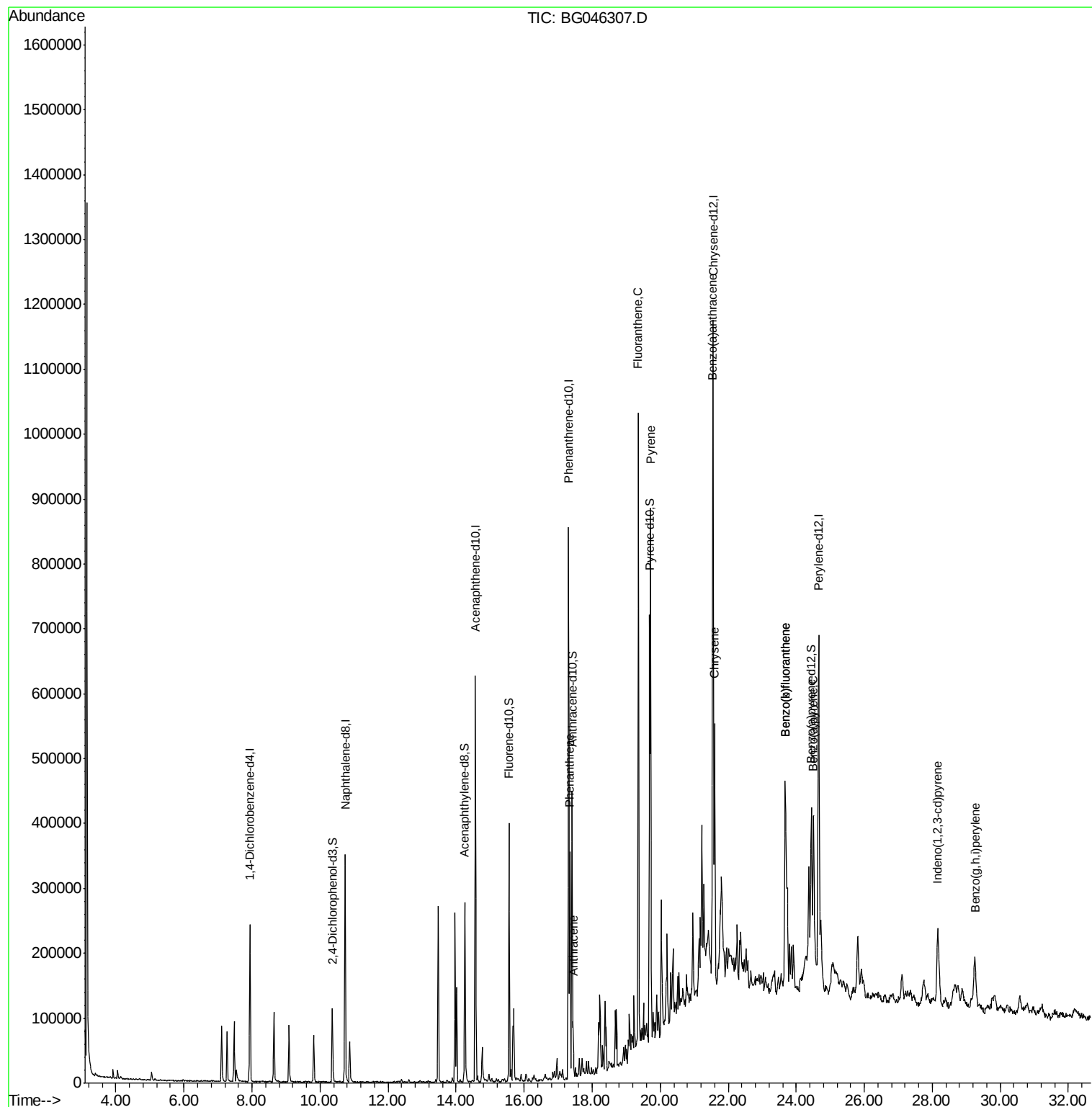
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.94  | 152  | 73883    | 20.00  | ng/ul | 0.00     |
| 2) Naphthalene-d8           | 10.74 | 136  | 316518   | 20.00  | ng/ul | 0.00     |
| 6) Acenaphthene-d10         | 14.57 | 164  | 224715   | 20.00  | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 17.31 | 188  | 540325   | 20.00  | ng/ul | 0.00     |
| 18) Chrysene-d12            | 21.55 | 240  | 536012   | 20.00  | ng/ul | 0.00     |
| 23) Perylene-d12            | 24.66 | 264  | 564969   | 20.00  | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 3) 2,4-Dichlorophenol-d3    | 10.36 | 165  | 52740    | 9.68   | ng/ul | 0.00     |
| 7) Acenaphthylene-d8        | 14.26 | 160  | 212746   | 10.29  | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.56 | 176  | 175167   | 11.05  | ng/ul | 0.00     |
| 15) Anthracene-d10          | 17.41 | 188  | 266183   | 10.63  | ng/ul | 0.00     |
| 19) Pyrene-d10              | 19.69 | 212  | 287059   | 10.40  | ng/ul | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.45 | 264  | 295542   | 9.59   | ng/ul | 0.00     |
| Target Compounds            |       |      |          | Qvalue |       |          |
| 14) Phenanthrene            | 17.35 | 178  | 232297   | 7.815  | ng/ul | 97       |
| 16) Anthracene              | 17.44 | 178  | 56510    | 1.884  | ng/ul | 98       |
| 17) Fluoranthene            | 19.36 | 202  | 640131   | 19.313 | ng/ul | 98       |
| 20) Pyrene                  | 19.72 | 202  | 521076   | 14.810 | ng/ul | 98       |
| 21) Benzo(a)anthracene      | 21.54 | 228  | 305353   | 8.756  | ng/ul | 98       |
| 22) Chrysene                | 21.60 | 228  | 311809   | 9.249  | ng/ul | 97       |
| 24) Benzo(b)fluoranthene    | 23.68 | 252  | 420733   | 11.261 | ng/ul | 99       |
| 25) Benzo(k)fluoranthene    | 23.68 | 252  | 420733   | 11.353 | ng/ul | 99       |
| 27) Benzo(a)pyrene          | 24.51 | 252  | 249598   | 7.277  | ng/ul | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 28.15 | 276  | 195644   | 4.555  | ng/ul | 99       |
| 30) Benzo(g,h,i)perylene    | 29.26 | 276  | 147027   | 4.091  | ng/ul | 98       |

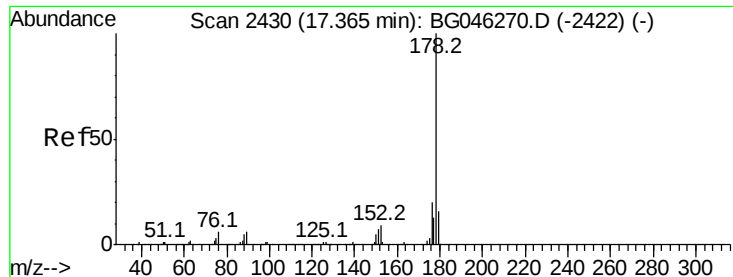
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 18 01:26:31 2020  
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Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 13 13:50:19 2020  
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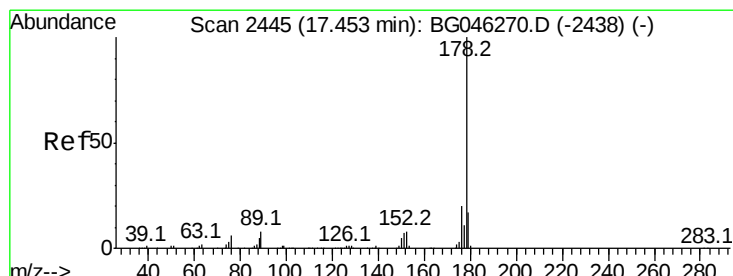
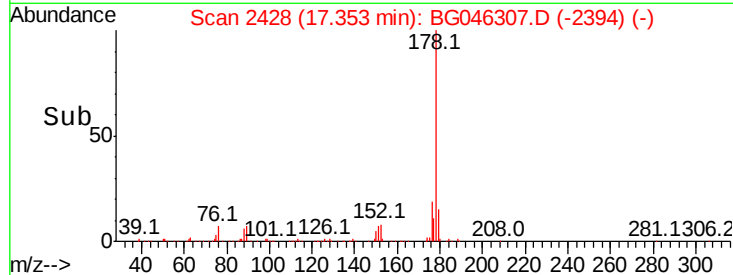
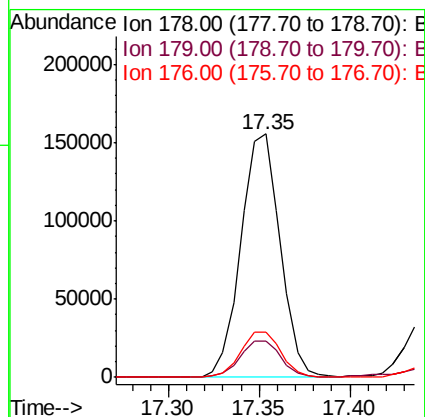
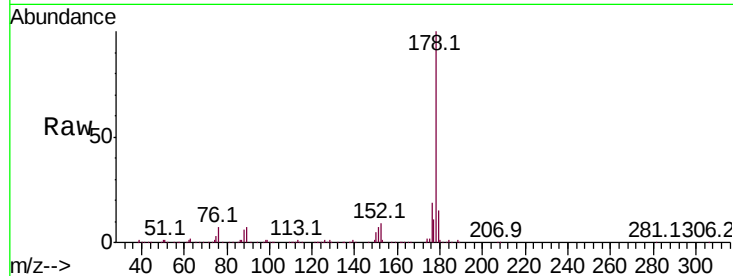




#14  
Phenanthrene  
Concen: 7.815 ng/ul  
RT: 17.35 min Scan# 2428  
Delta R.T. -0.00 min  
Lab File: BG046307.D  
Acq: 17 Aug 2020 22:35

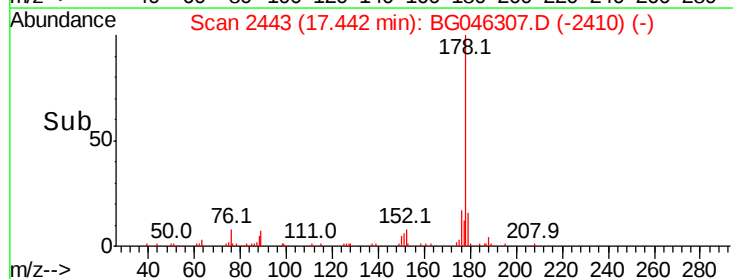
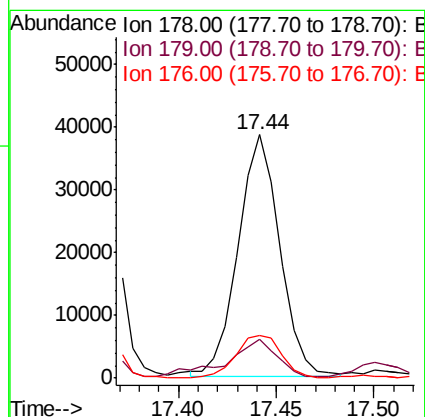
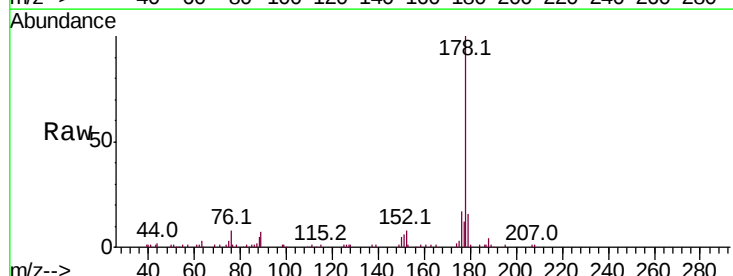
Instrument :  
BNA\_G  
ClientSampleId :  
BFM98

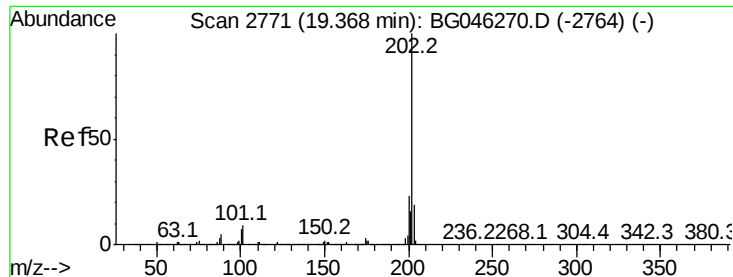
Tot Ion:178 Resp: 232297  
Ion Ratio Lower Upper  
178 100  
179 14.7 12.8 19.2  
176 18.5 15.8 23.8



#16  
Anthracene  
Concen: 1.884 ng/ul  
RT: 17.44 min Scan# 2443  
Delta R.T. -0.01 min  
Lab File: BG046307.D  
Acq: 17 Aug 2020 22:35

Tgt Ion:178 Resp: 56510  
Ion Ratio Lower Upper  
178 100  
179 16.1 13.2 19.8  
176 17.3 15.2 22.8

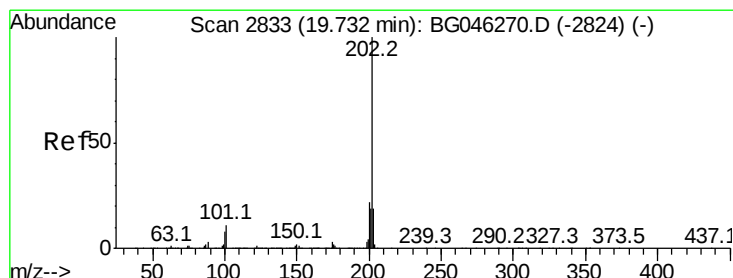
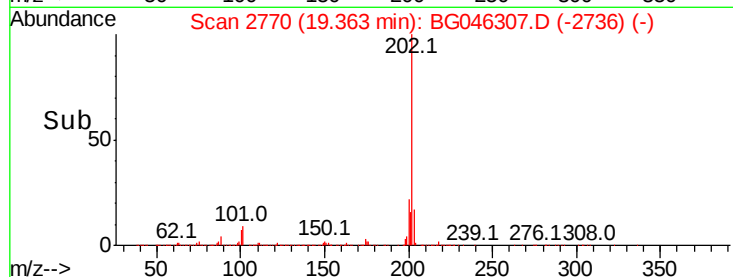
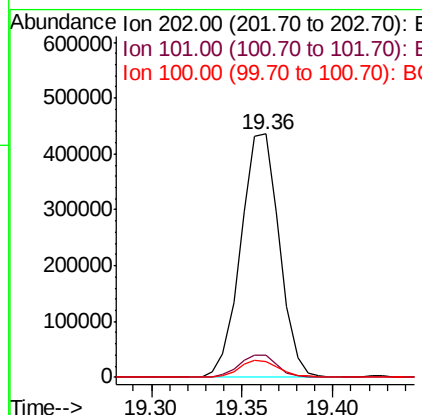
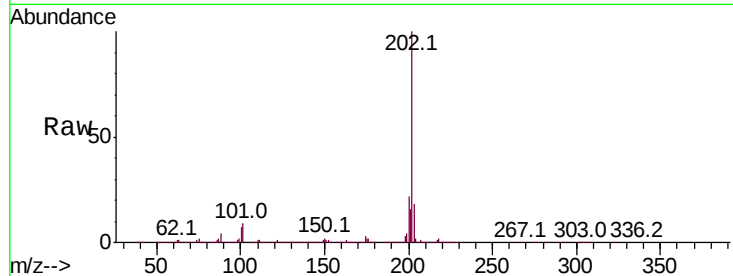




#17  
 Fluoranthene  
 Concen: 19.313 ng/ul  
 RT: 19.36 min Scan# 2770  
 Delta R.T. -0.00 min  
 Lab File: BG046307.D  
 Acq: 17 Aug 2020 22:35

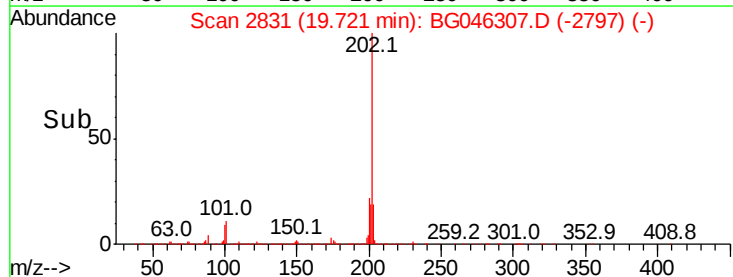
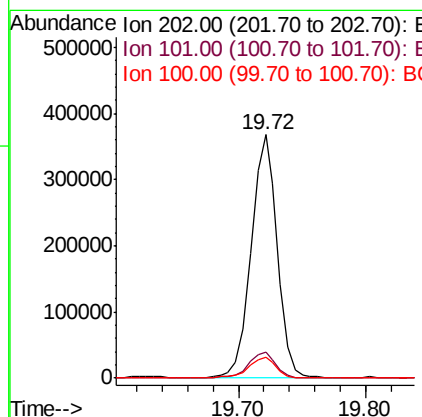
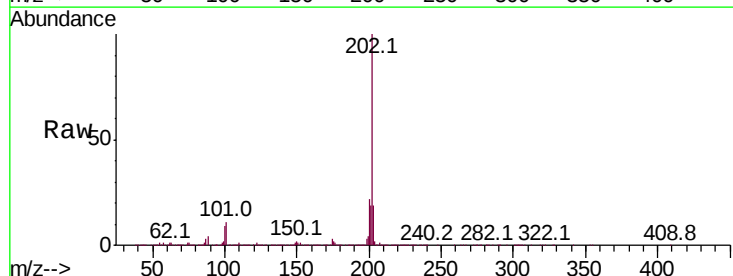
Instrument :  
 BNA\_G  
 ClientSampleID :  
 BFM98

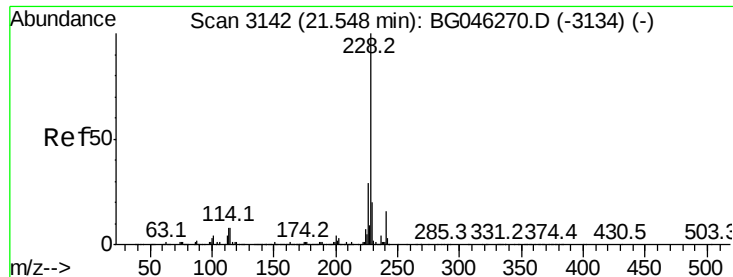
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 7.8   | 11.6  |
| 100     | 6.7   | 5.9   | 8.9   |



#20  
 Pyrene  
 Concen: 14.810 ng/ul  
 RT: 19.72 min Scan# 2831  
 Delta R.T. -0.00 min  
 Lab File: BG046307.D  
 Acq: 17 Aug 2020 22:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.7  | 8.9   | 13.3  |
| 100     | 8.5   | 7.9   | 11.9  |





#21

Benzo(a)anthracene

Concen: 8.756 ng/ul

RT: 21.54 min Scan# 3140

Delta R.T. -0.01 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

Instrument :

BNA\_G

ClientSampleId :

BFM98

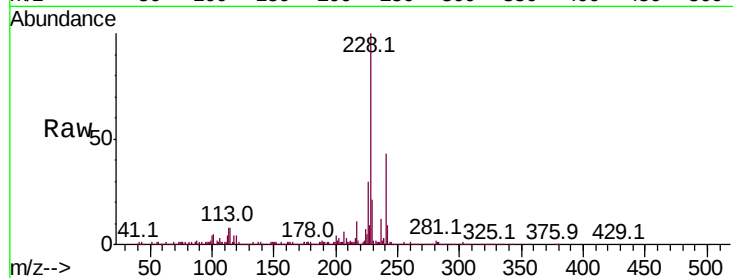
Tot Ion:228 Resp: 305353

Ion Ratio Lower Upper

228 100

229 20.6 16.6 25.0

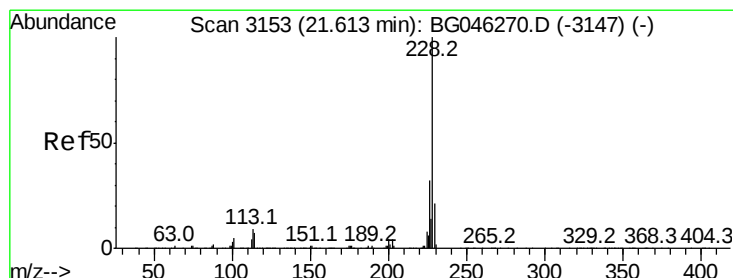
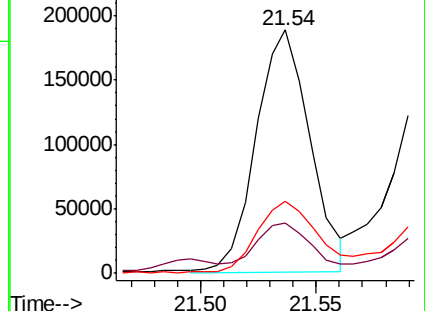
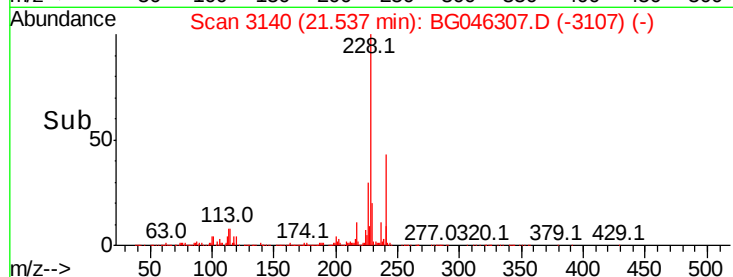
226 29.9 22.6 33.8



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: 9.249 ng/ul

RT: 21.60 min Scan# 3151

Delta R.T. -0.00 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

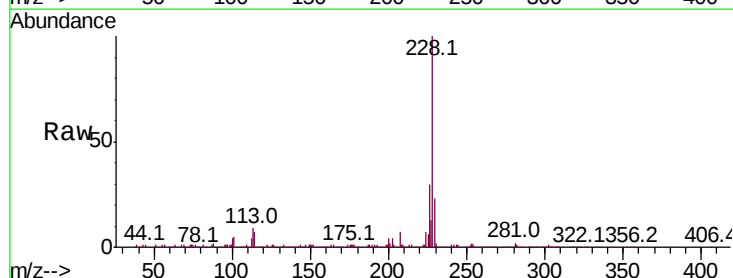
Tgt Ion:228 Resp: 311809

Ion Ratio Lower Upper

228 100

226 30.4 25.5 38.3

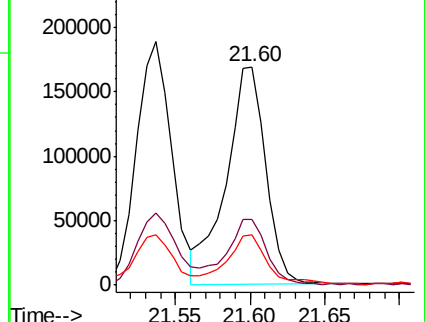
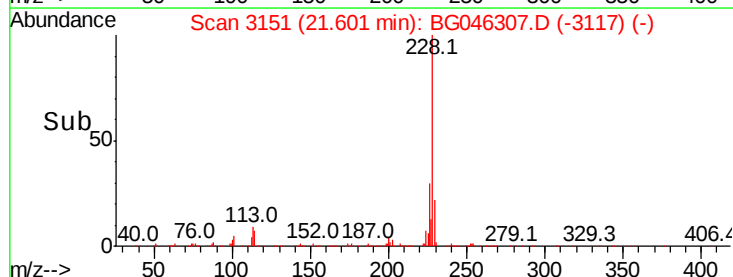
229 22.9 17.0 25.4

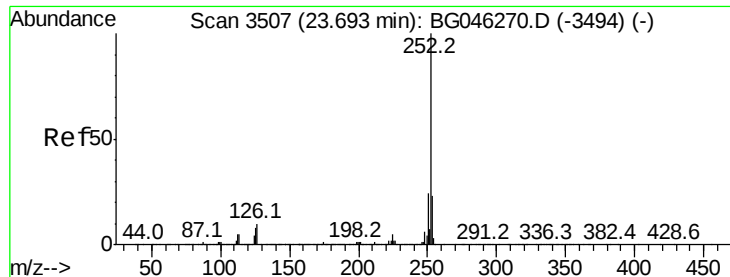


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#24

Benzo(b)fluoranthene

Concen: 11.261 ng/ul

RT: 23.68 min Scan# 3505

Delta R.T. -0.00 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

Instrument :

BNA\_G

ClientSampleId :

BFM98

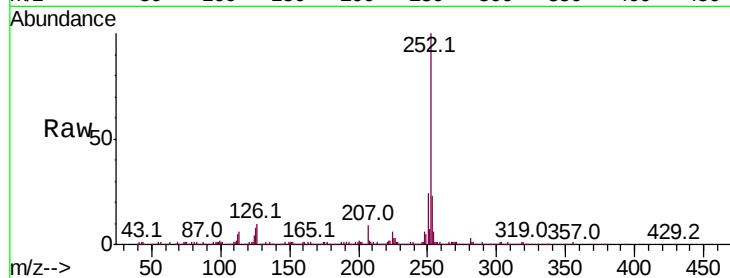
Tot Ion:252 Resp: 420733

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.6

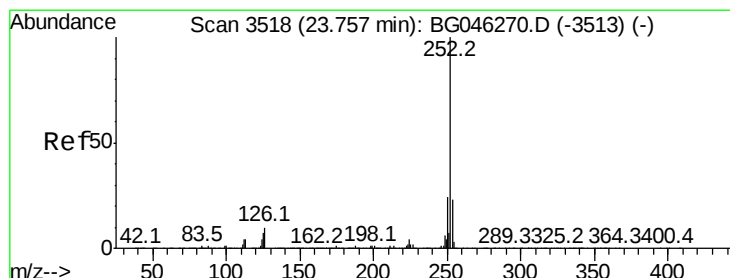
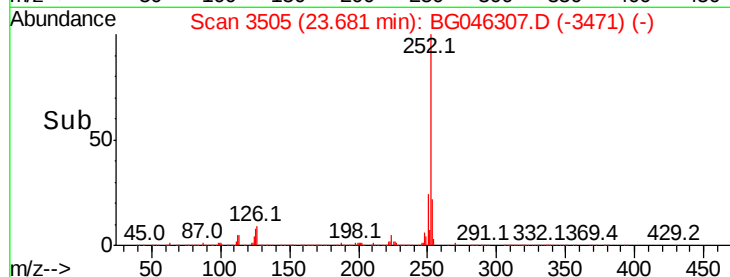
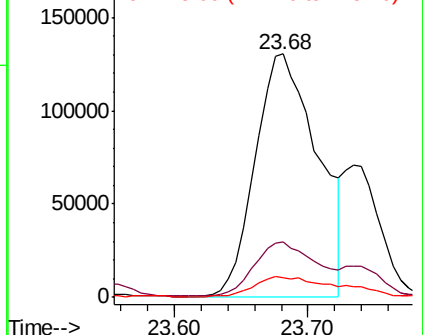
125 8.0 6.4 9.6



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: 11.353 ng/ul

RT: 23.68 min Scan# 3505

Delta R.T. -0.07 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

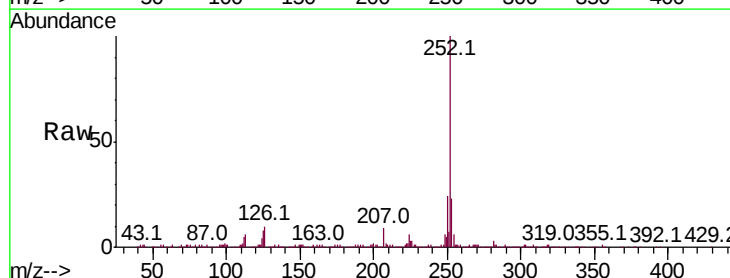
Tgt Ion:252 Resp: 420733

Ion Ratio Lower Upper

252 100

253 22.7 18.5 27.7

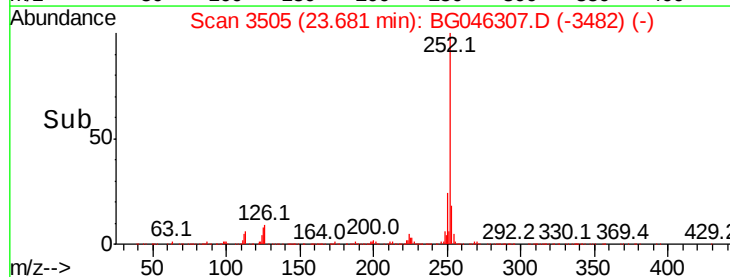
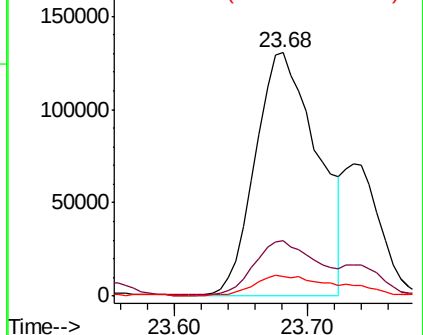
125 8.0 6.2 9.2

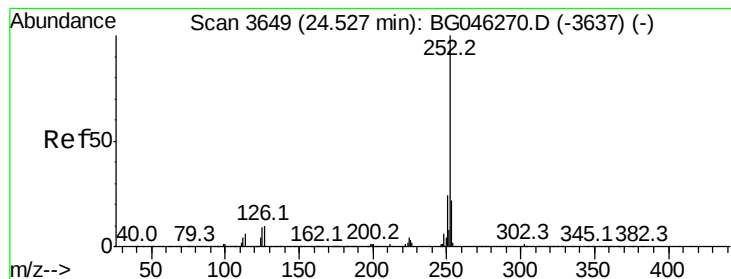


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 7.277 ng/ul

RT: 24.51 min Scan# 3646

Delta R.T. -0.01 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

Instrument :

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ClientSampleId :

BFM98

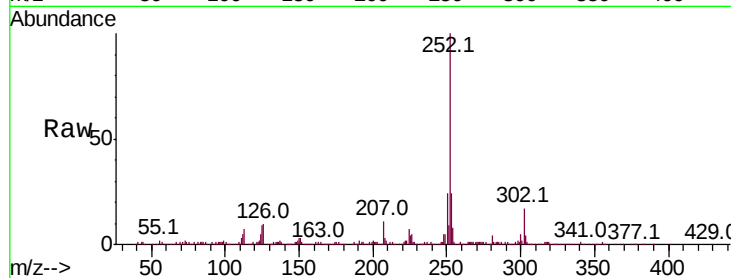
Tot Ion:252 Resp: 249598

Ion Ratio Lower Upper

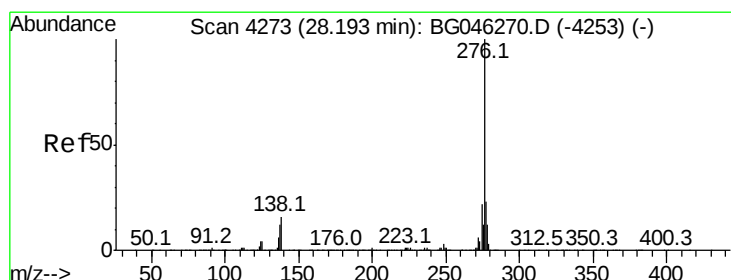
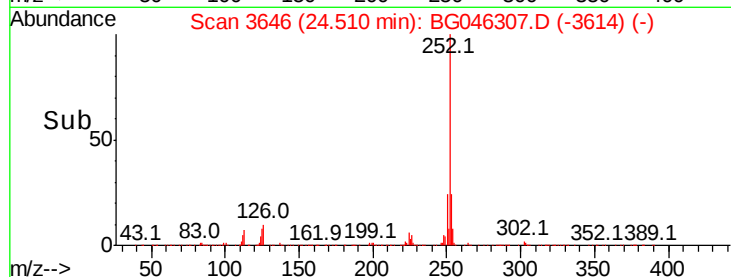
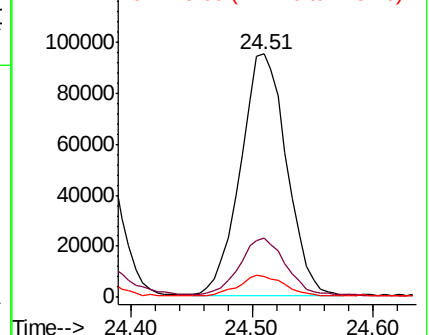
252 100

253 24.3 17.8 26.8

125 8.7 7.1 10.7



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: 4.555 ng/ul

RT: 28.15 min Scan# 4266

Delta R.T. -0.02 min

Lab File: BG046307.D

Acq: 17 Aug 2020 22:35

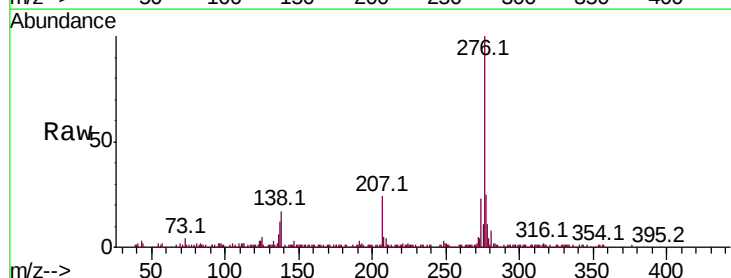
Tgt Ion:276 Resp: 195644

Ion Ratio Lower Upper

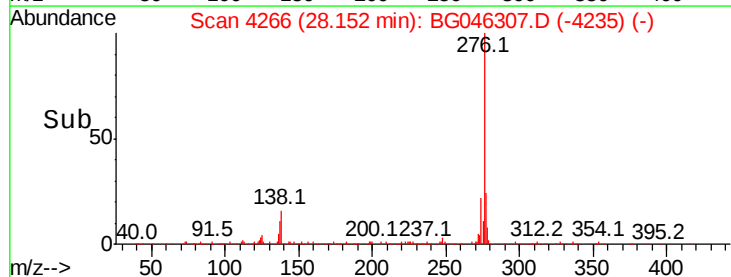
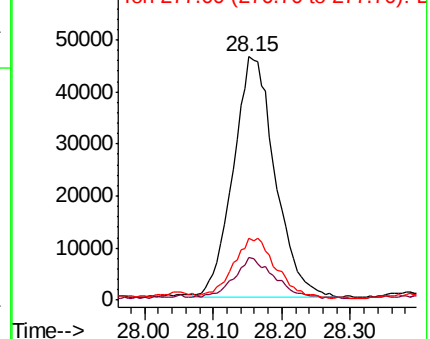
276 100

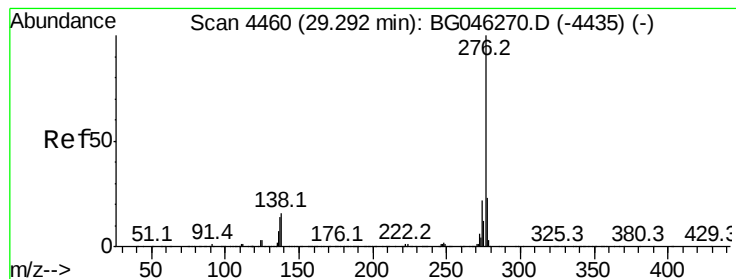
138 17.3 13.2 19.8

277 25.4 19.9 29.9



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





#30

Benzo(a,h,i)perylene

Concen: 4.091 ng/ul

RT: 29.26 min Scan# 4454

Delta R.T. -0.01 min

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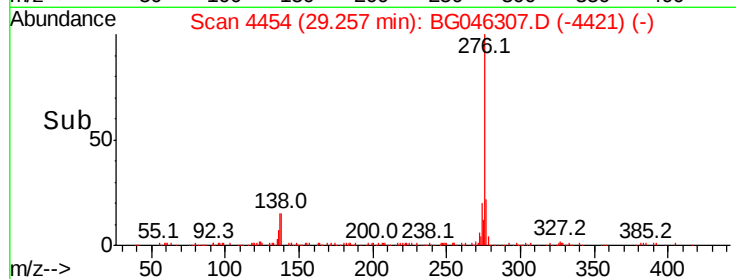
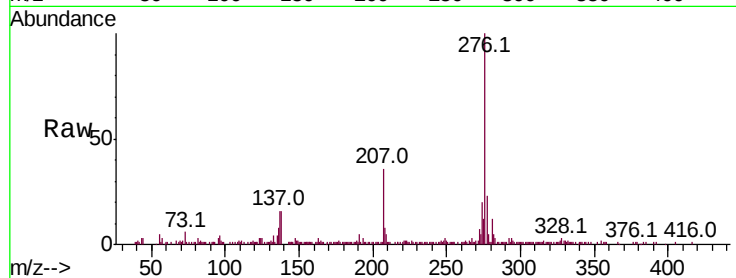
Tot Ion:276 Resp: 147027

Ion Ratio Lower Upper

276 100

138 15.8 12.9 19.3

277 22.8 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

