

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051817\  
 Data File : BG027006.D  
 Acq On : 18 May 2017 15:56  
 Operator : SJ/MA  
 Sample : SSTDICV020  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SICV98

Quant Time: May 18 16:39:28 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 18 16:06:56 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 181595   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.80 | 136  | 871244   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.62 | 164  | 474983   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.35 | 188  | 883068   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.60 | 240  | 801406   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.76 | 264  | 802272   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |        |       |       |      |
|------------------------|-------|-----|--------|-------|-------|------|
| 7) Acenaphthylene-d8   | 14.31 | 160 | 961142 | 19.73 | ng/ul | 0.00 |
| 10) Fluorene-d10       | 15.60 | 176 | 639855 | 19.69 | ng/ul | 0.00 |
| 14) Anthracene-d10     | 17.45 | 188 | 846675 | 19.67 | ng/ul | 0.00 |
| 18) Pyrene-d10         | 19.73 | 212 | 810770 | 19.38 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.54 | 264 | 770150 | 19.32 | ng/ul | 0.00 |

## Target Compounds

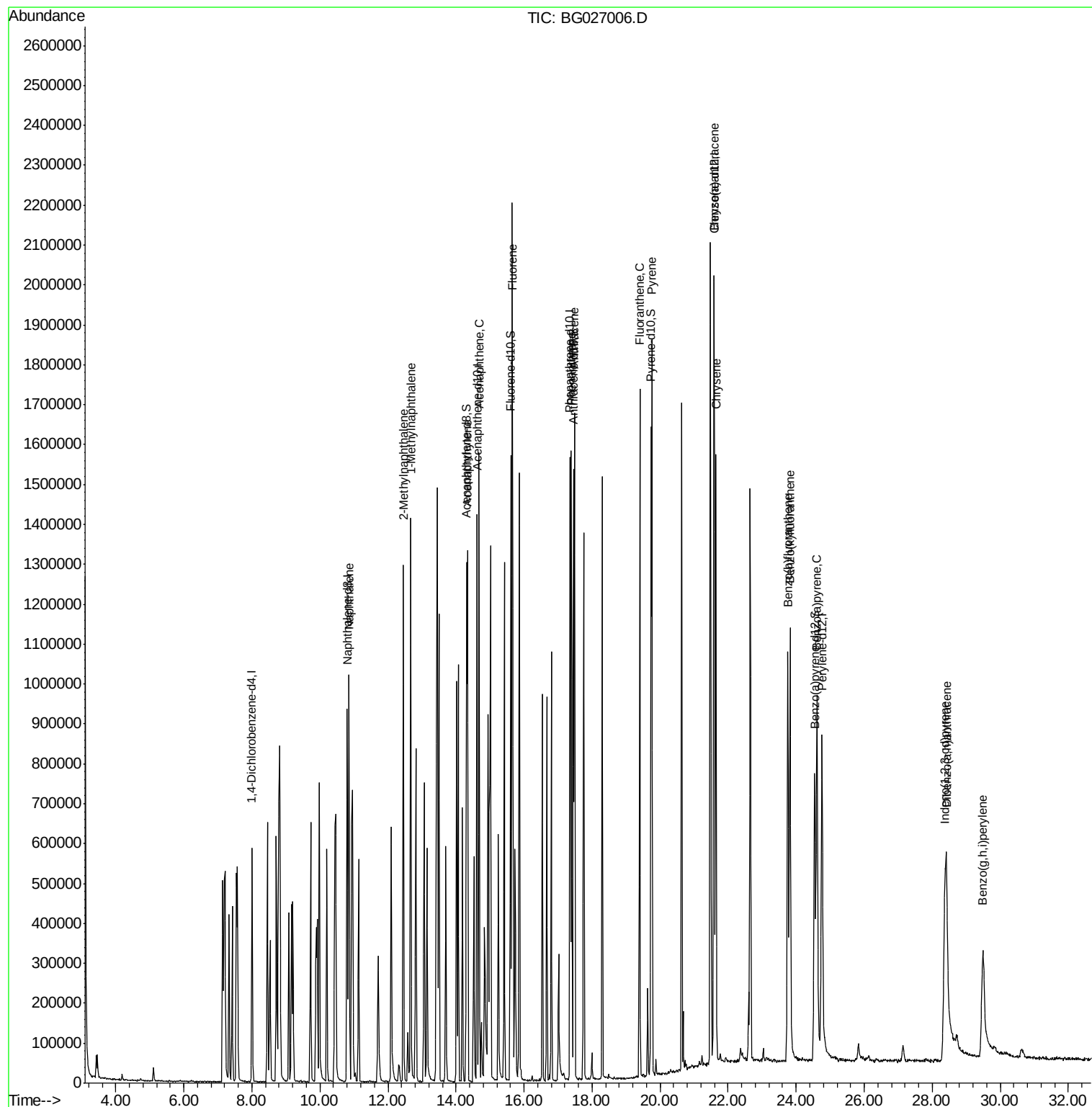
|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 3) Naphthalene             | 10.85 | 128 | 901004  | 19.93 | ng/ul  | 98     |
| 4) 2-Methylnaphthalene     | 12.45 | 142 | 661048  | 19.74 | ng/ul  | 98     |
| 5) 1-Methylnaphthalene     | 12.67 | 142 | 712227  | 19.75 | ng/ul# | 94     |
| 8) Acenaphthylene          | 14.34 | 152 | 978788  | 19.99 | ng/ul  | 99     |
| 9) Acenaphthene            | 14.68 | 153 | 665009  | 19.84 | ng/ul  | 96     |
| 11) Fluorene               | 15.66 | 166 | 713209  | 19.97 | ng/ul  | 95     |
| 13) Phenanthrene           | 17.39 | 178 | 983543  | 19.92 | ng/ul  | 97     |
| 15) Anthracene             | 17.48 | 178 | 1012194 | 19.96 | ng/ul  | 97     |
| 16) Fluoranthene           | 19.40 | 202 | 1016552 | 20.14 | ng/ul# | 93     |
| 19) Pyrene                 | 19.76 | 202 | 1034548 | 19.75 | ng/ul# | 88     |
| 20) Benzo(a)anthracene     | 21.58 | 228 | 935081  | 19.36 | ng/ul  | 97     |
| 21) Chrysene               | 21.64 | 228 | 848875  | 19.15 | ng/ul  | 99     |
| 23) Benzo(b)fluoranthene   | 23.75 | 252 | 939192  | 19.70 | ng/ul# | 94     |
| 24) Benzo(k)fluoranthene   | 23.82 | 252 | 927185  | 18.90 | ng/ul# | 95     |
| 26) Benzo(a)pyrene         | 24.61 | 252 | 909699  | 19.50 | ng/ul# | 93     |
| 27) Indeno(1,2,3-cd)pyrene | 28.37 | 276 | 840529  | 19.59 | ng/ul# | 82     |
| 28) Dibenzo(a,h)anthracene | 28.42 | 278 | 707152  | 19.10 | ng/ul# | 92     |
| 29) Benzo(a,h,i)perylene   | 29.49 | 276 | 566834  | 16.61 | ng/ul# | 86     |

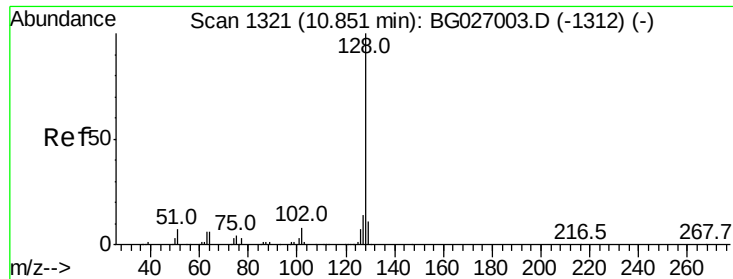
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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ClientSampled :  
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Quant Time: May 18 16:39:28 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG051817MA.M  
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QLast Update : Thu May 18 16:06:56 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 19.93 ng/ul

RT: 10.85 min Scan# 1321

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

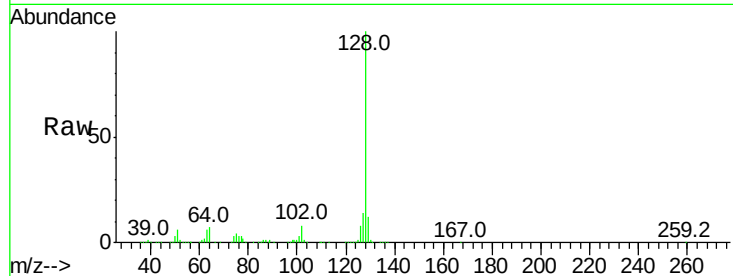
Tot Ion:128 Resp: 901004

Ion Ratio Lower Upper

128 100

129 11.9 8.7 13.1

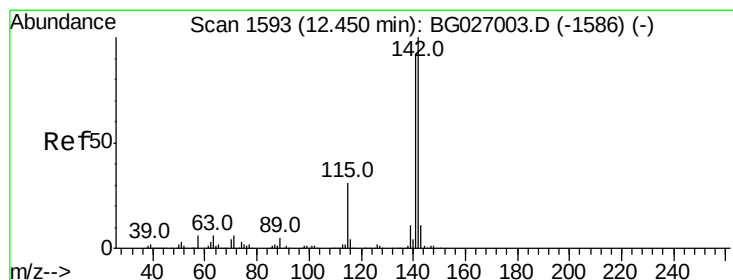
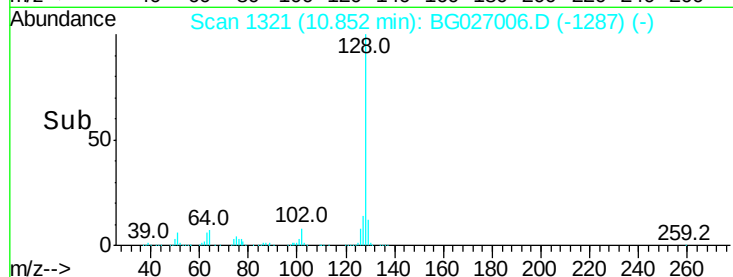
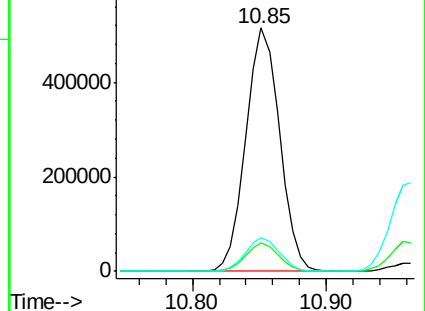
127 13.7 10.6 16.0



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: 19.74 ng/ul

RT: 12.45 min Scan# 1593

Delta R.T. 0.00 min

Lab File: BG027006.D

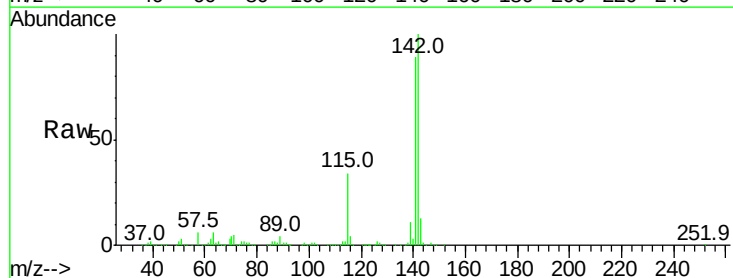
Acq: 18 May 2017 15:56

Tgt Ion:142 Resp: 661048

Ion Ratio Lower Upper

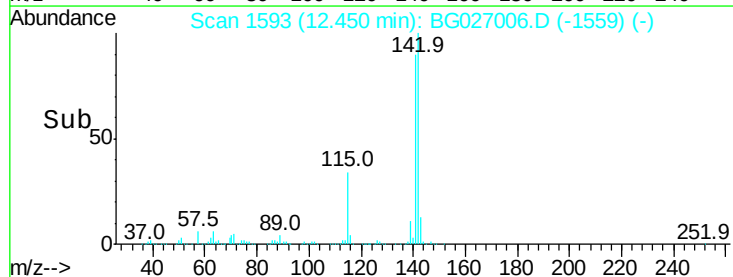
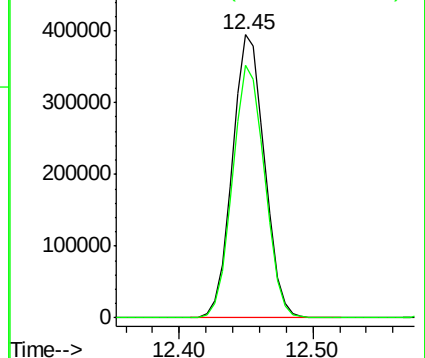
142 100

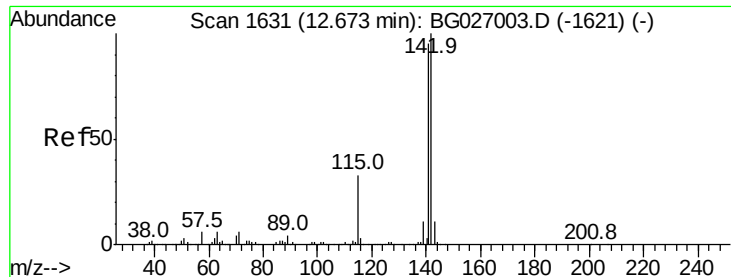
141 89.3 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 19.75 ng/ul

RT: 12.67 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

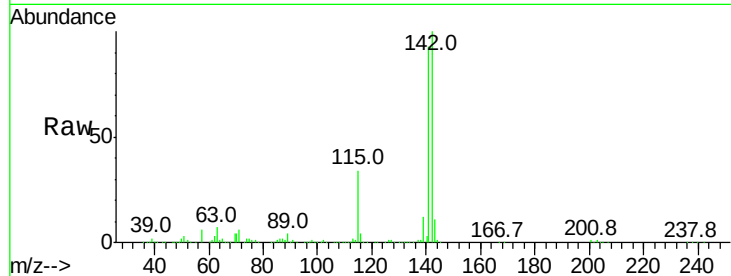
Tot Ion:142 Resp: 712227

Ion Ratio Lower Upper

142 100

141 92.9 79.3 118.9

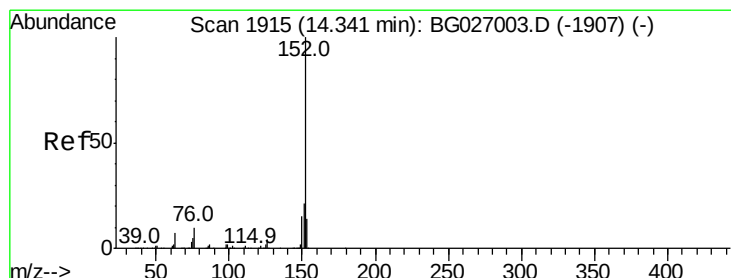
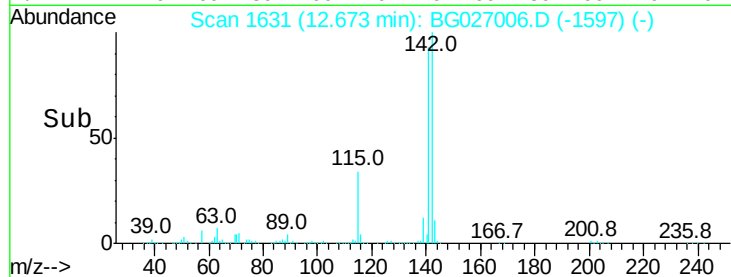
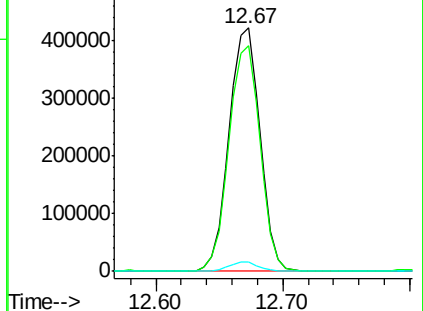
116 3.7 4.2 6.2#



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



#8

Acenaphthylene

Concen: 19.99 ng/ul

RT: 14.34 min Scan# 1915

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

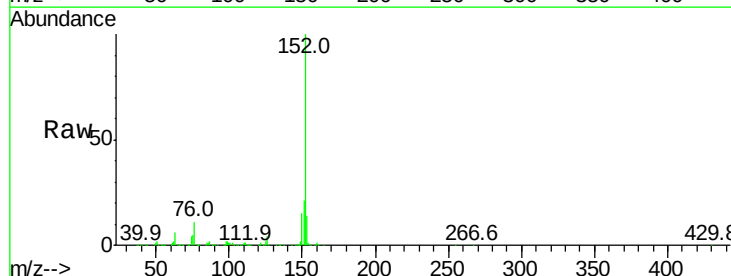
Tgt Ion:152 Resp: 978788

Ion Ratio Lower Upper

152 100

151 21.3 16.7 25.1

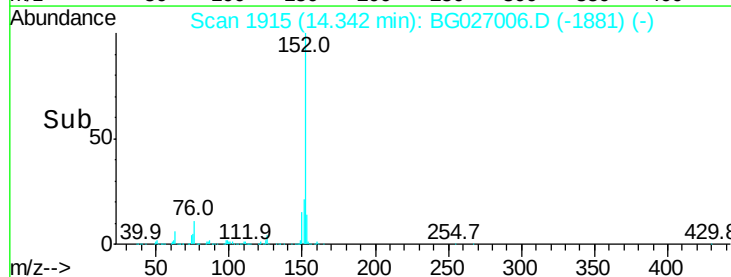
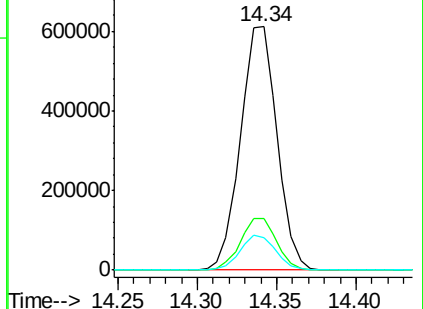
153 13.5 10.2 15.4

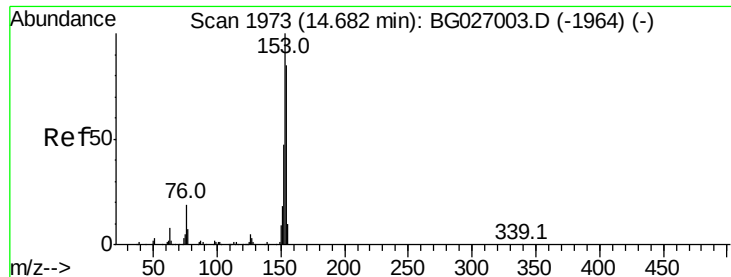


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 19.84 ng/ul

RT: 14.68 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

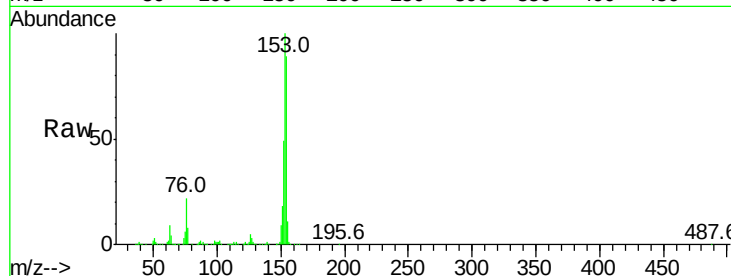
Tot Ion:153 Resp: 665009

Ion Ratio Lower Upper

153 100

152 49.1 39.0 58.6

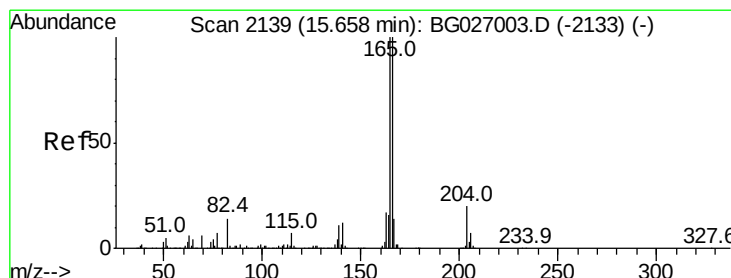
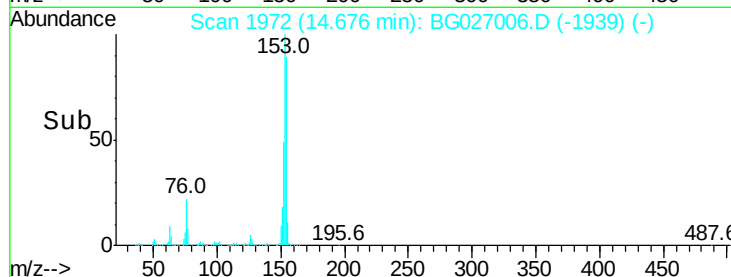
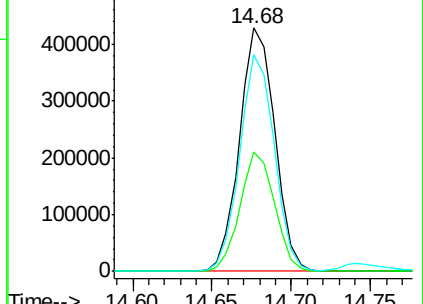
154 89.0 66.8 100.2



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



#11

Fluorene

Concen: 19.97 ng/ul

RT: 15.66 min Scan# 2139

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

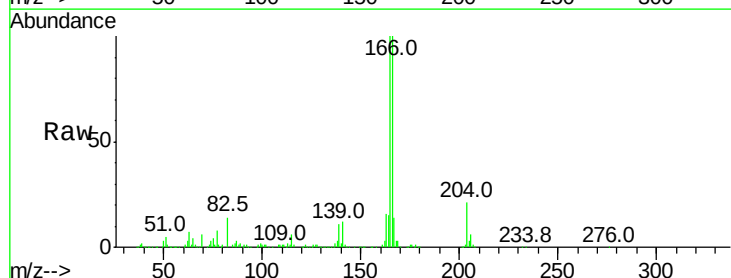
Tgt Ion:166 Resp: 713209

Ion Ratio Lower Upper

166 100

165 99.6 83.8 125.8

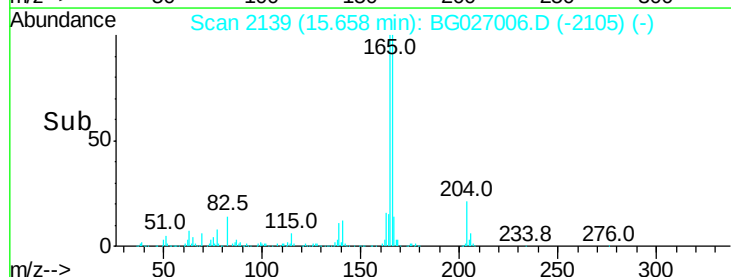
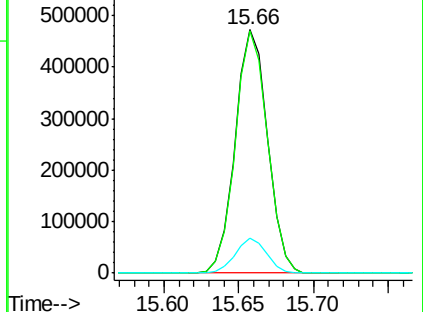
167 14.1 11.5 17.3

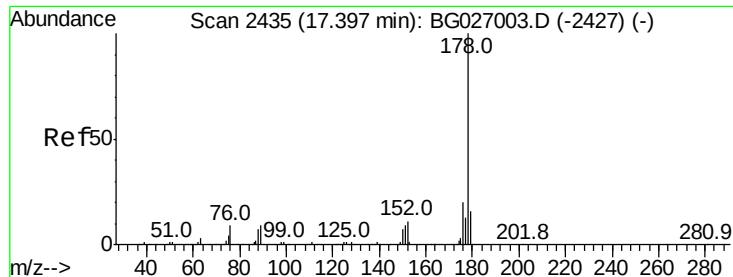


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

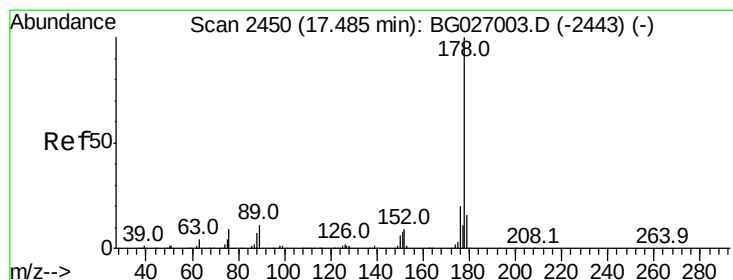
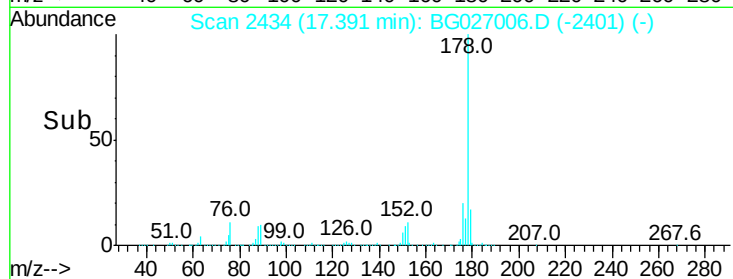
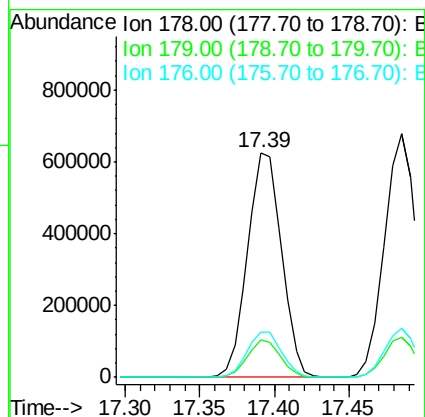
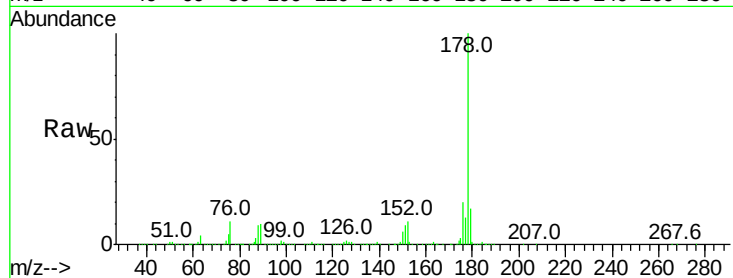




#13  
Phenanthrene  
Concen: 19.92 ng/ul  
RT: 17.39 min Scan# 2434  
Delta R.T. -0.01 min  
Lab File: BG027006.D  
Acq: 18 May 2017 15:56

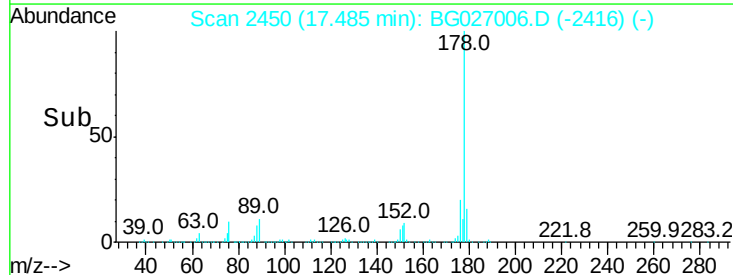
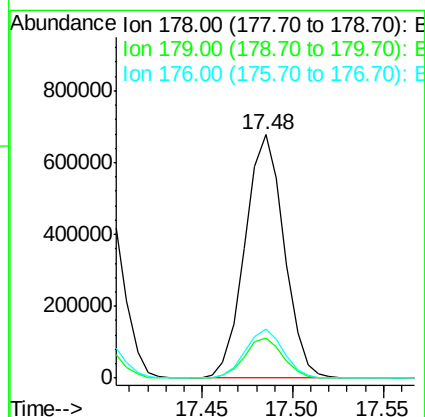
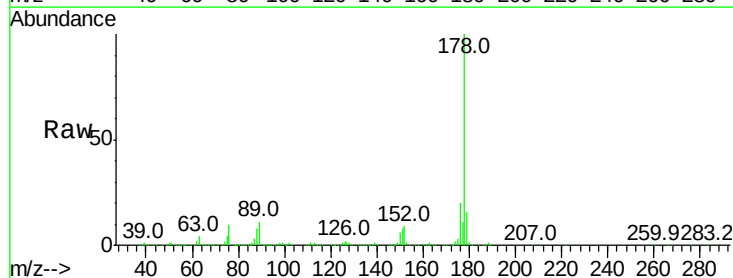
Instrument :  
BNA\_G  
ClientSampleId :  
SICV98

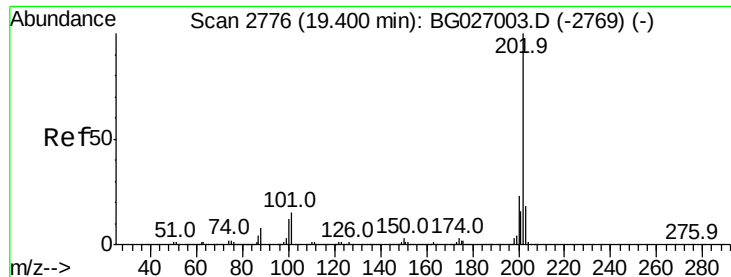
Tot Ion:178 Resp: 983543  
Ion Ratio Lower Upper  
178 100  
179 16.5 12.3 18.5  
176 20.2 15.1 22.7



#15  
Anthracene  
Concen: 19.96 ng/ul  
RT: 17.48 min Scan# 2450  
Delta R.T. 0.00 min  
Lab File: BG027006.D  
Acq: 18 May 2017 15:56

Tgt Ion:178 Resp: 1012194  
Ion Ratio Lower Upper  
178 100  
179 16.3 11.8 17.8  
176 20.0 15.2 22.8

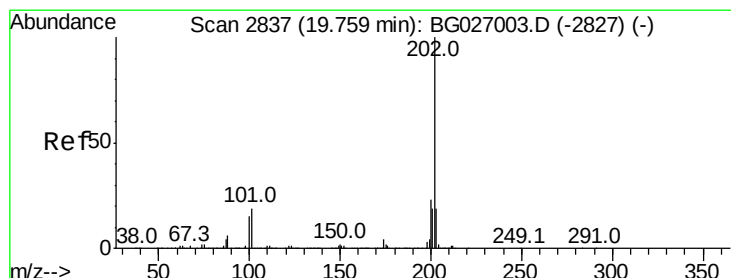
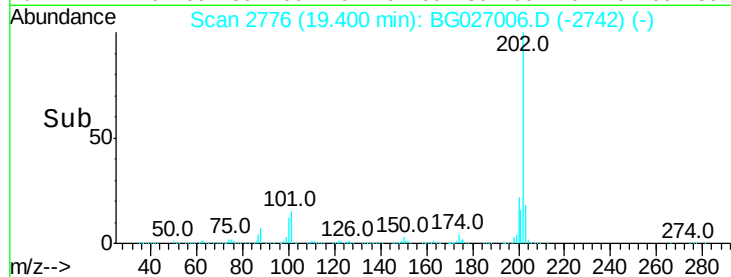
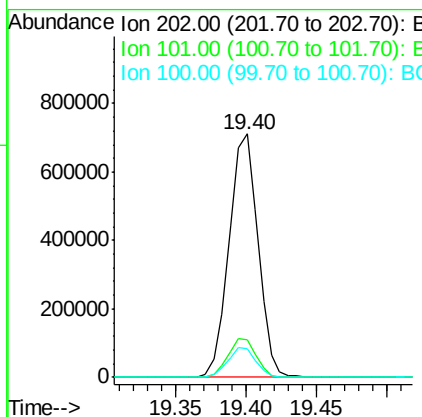
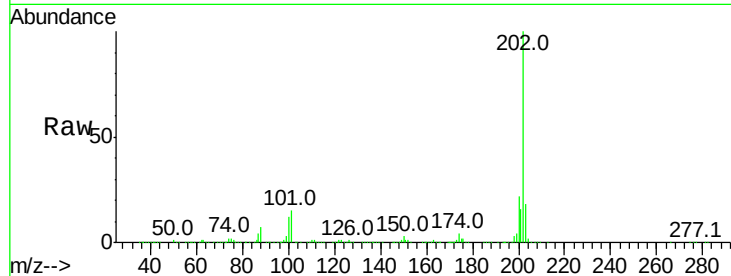




#16  
 Fluoranthene  
 Concen: 20.14 ng/ul  
 RT: 19.40 min Scan# 2776  
 Delta R.T. 0.00 min  
 Lab File: BG027006.D  
 Acq: 18 May 2017 15:56

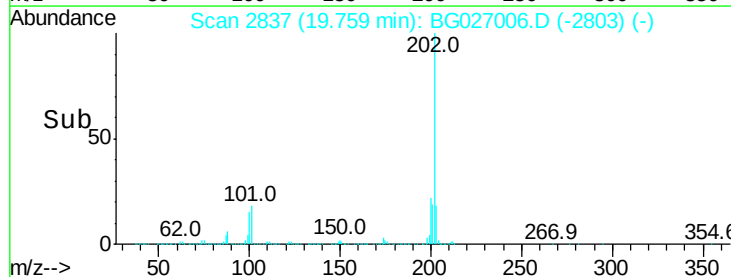
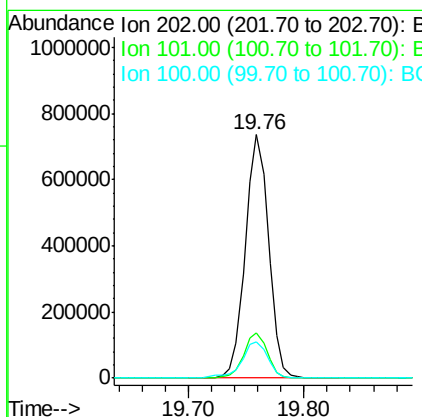
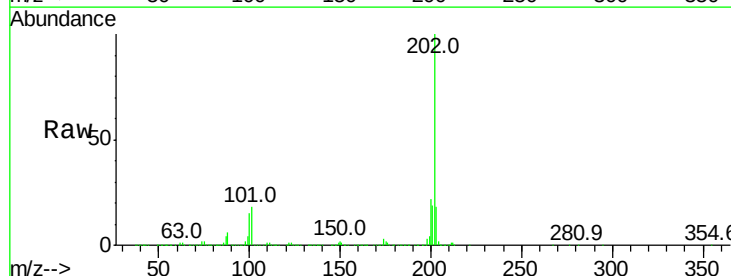
Instrument :  
 BNA\_G  
 ClientSampleID :  
 SICV98

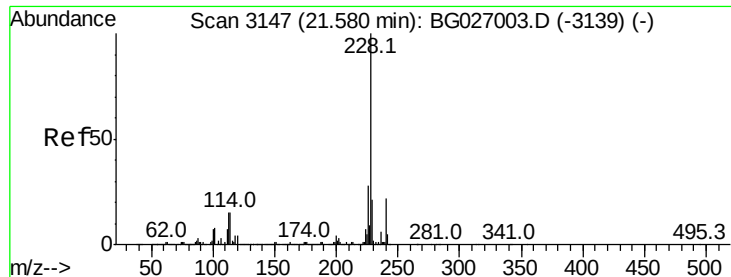
Tot Ion:202 Resp: 1016552  
 Ion Ratio Lower Upper  
 202 100  
 101 15.2 9.9 14.9#  
 100 11.7 7.4 11.0#



#19  
 Pyrene  
 Concen: 19.75 ng/ul  
 RT: 19.76 min Scan# 2837  
 Delta R.T. 0.00 min  
 Lab File: BG027006.D  
 Acq: 18 May 2017 15:56

Tgt Ion:202 Resp: 1034548  
 Ion Ratio Lower Upper  
 202 100  
 101 18.3 11.0 16.4#  
 100 15.2 8.1 12.1#





#20

Benzo(a)anthracene

Concen: 19.36 ng/ul

RT: 21.58 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

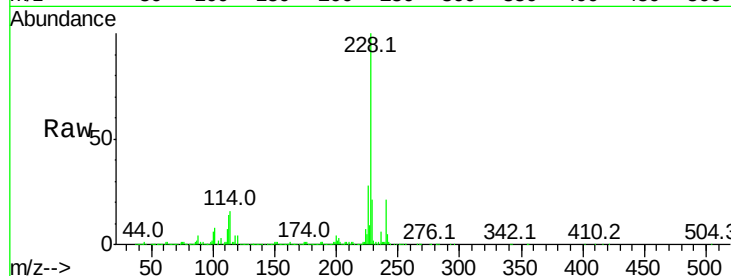
Tot Ion:228 Resp: 935081

Ion Ratio Lower Upper

228 100

229 20.6 15.7 23.5

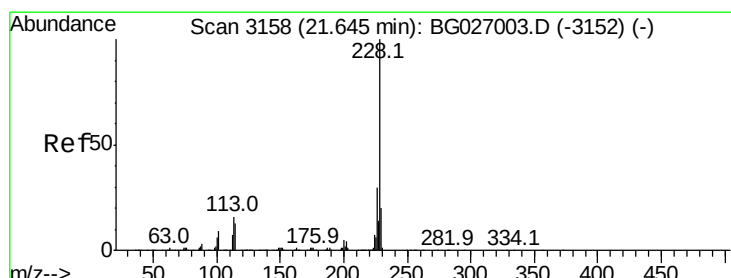
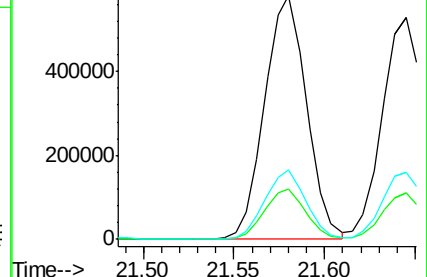
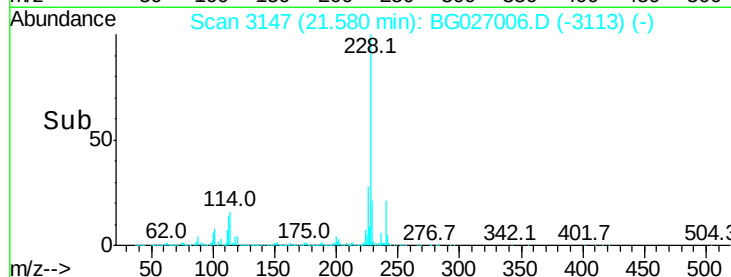
226 28.3 21.1 31.7



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: 19.15 ng/ul

RT: 21.64 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

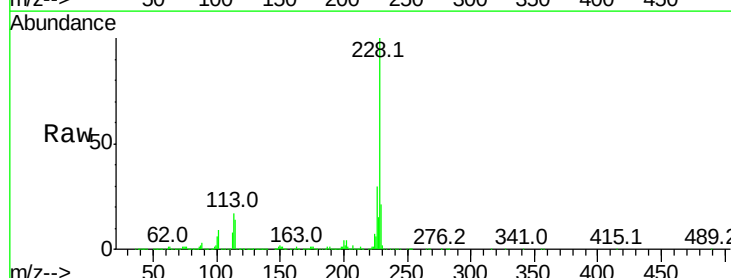
Tgt Ion:228 Resp: 848875

Ion Ratio Lower Upper

228 100

226 30.3 24.5 36.7

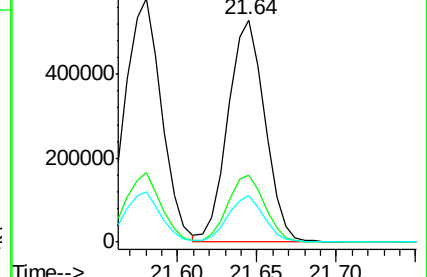
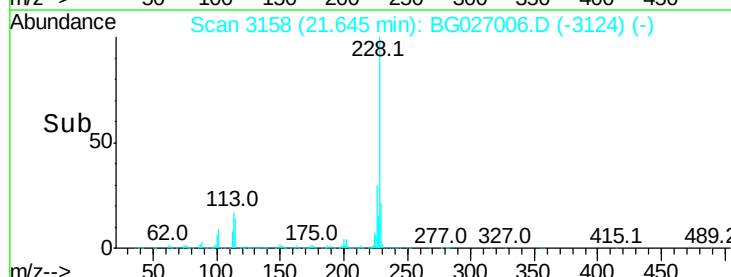
229 20.8 15.8 23.8



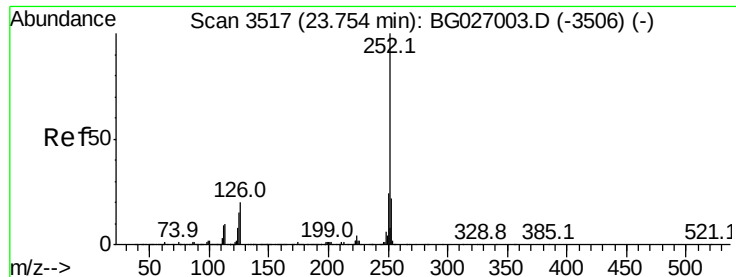
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#23

Benzo(b)fluoranthene

Concen: 19.70 ng/ul

RT: 23.75 min Scan# 3517

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

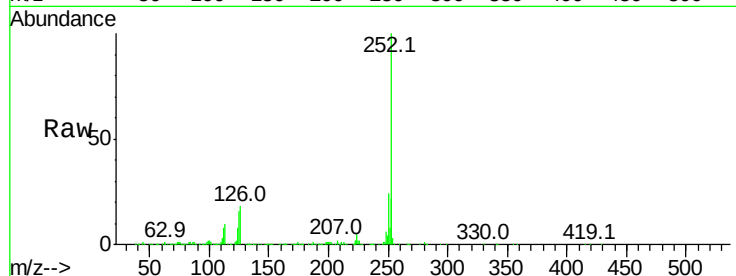
Tot Ion:252 Resp: 939192

Ion Ratio Lower Upper

252 100

253 21.9 18.0 27.0

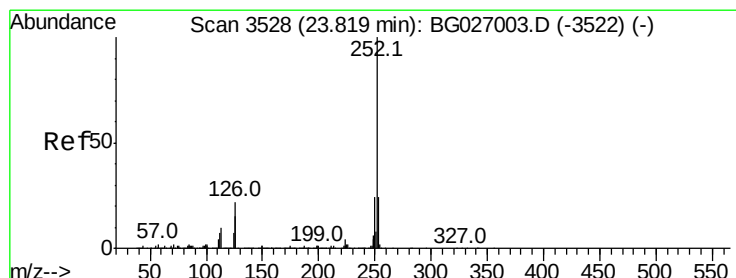
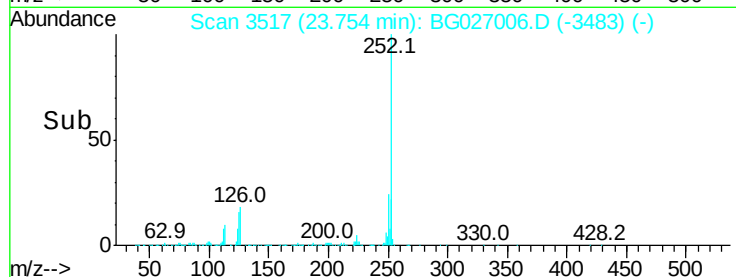
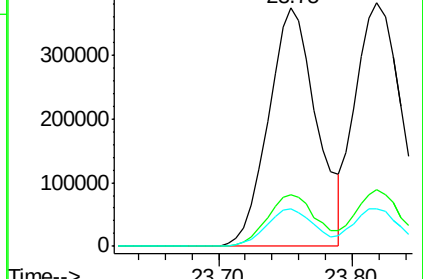
125 15.9 8.0 12.0#



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: 18.90 ng/ul

RT: 23.82 min Scan# 3528

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

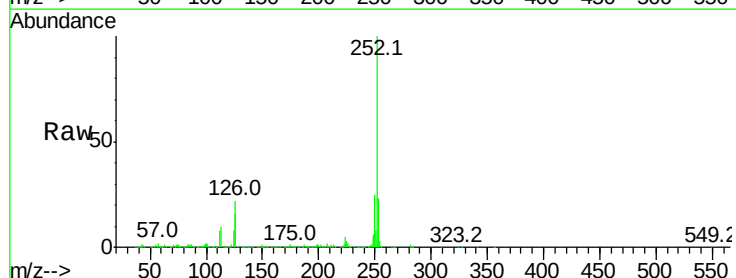
Tgt Ion:252 Resp: 927185

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

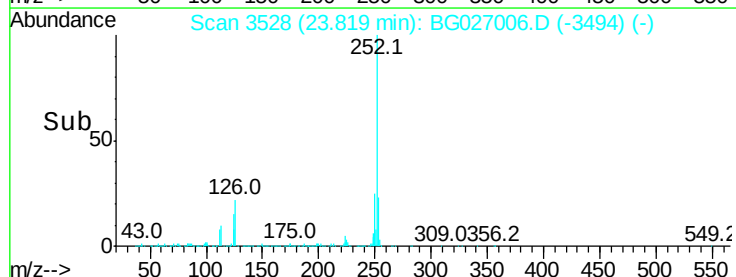
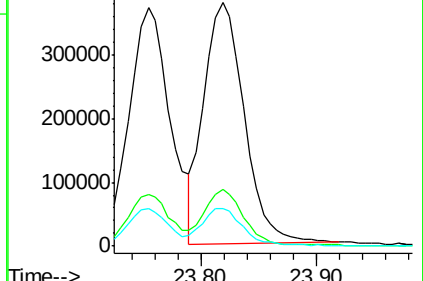
125 15.5 8.1 12.1#

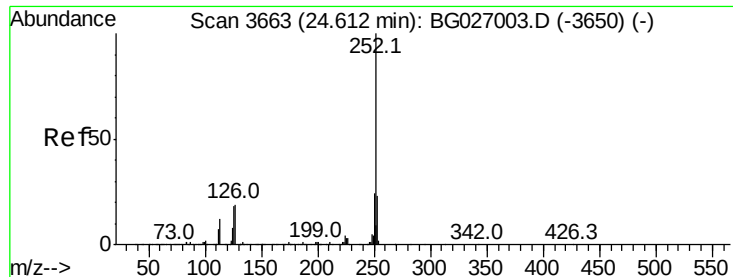


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 19.50 ng/ul

RT: 24.61 min Scan# 3663

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

Instrument :

BNA\_G

ClientSampleId :

SICV98

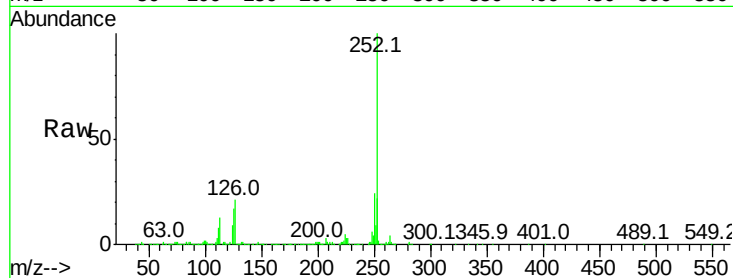
Tot Ion:252 Resp: 909699

Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

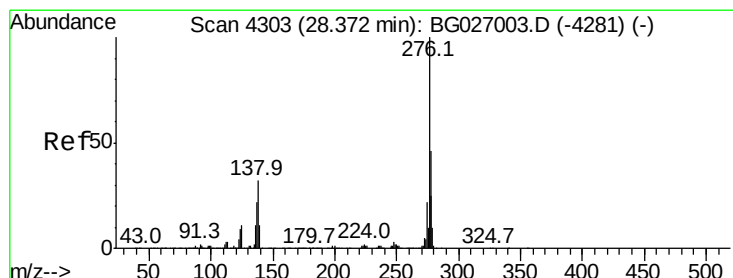
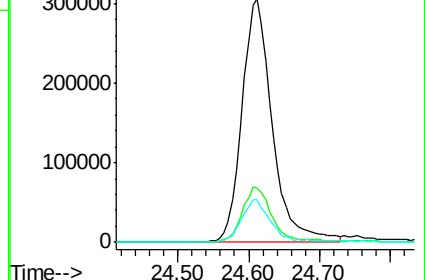
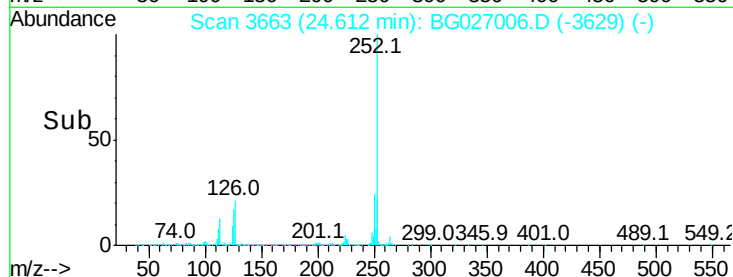
125 17.5 8.2 12.4#



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: 19.59 ng/ul

RT: 28.37 min Scan# 4303

Delta R.T. 0.00 min

Lab File: BG027006.D

Acq: 18 May 2017 15:56

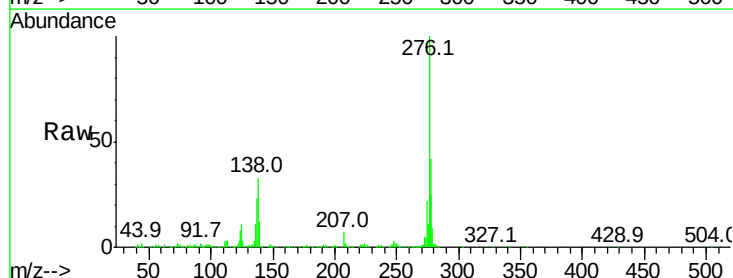
Tgt Ion:276 Resp: 840529

Ion Ratio Lower Upper

276 100

138 33.0 14.4 21.6#

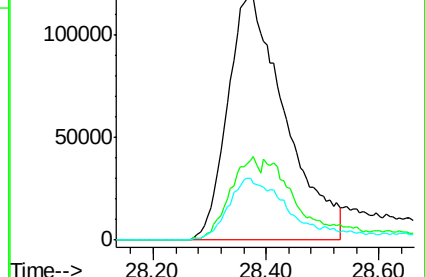
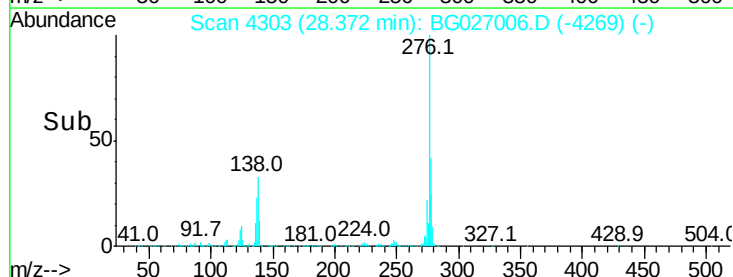
277 25.2 18.0 27.0

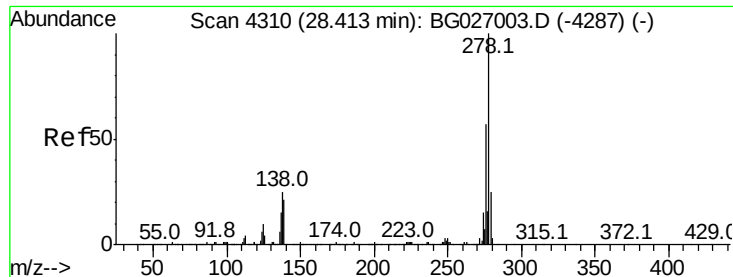


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

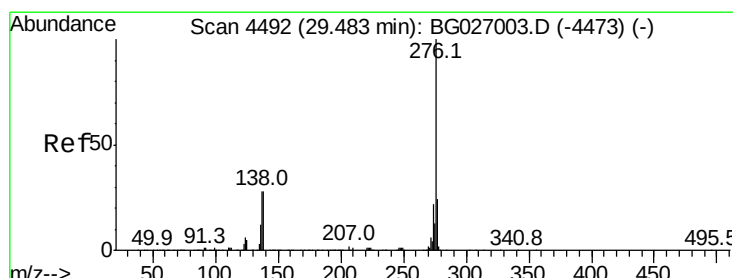
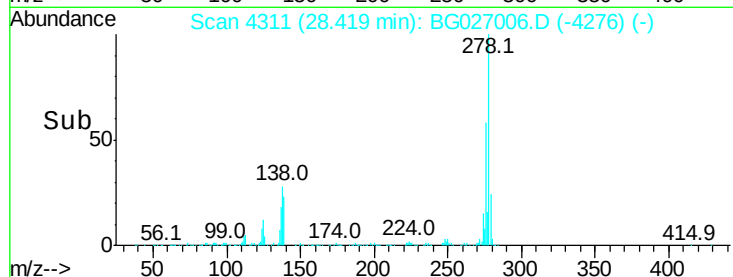
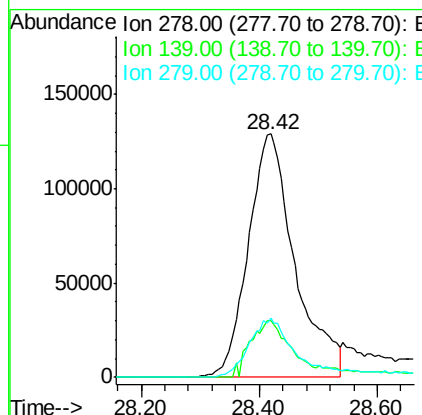
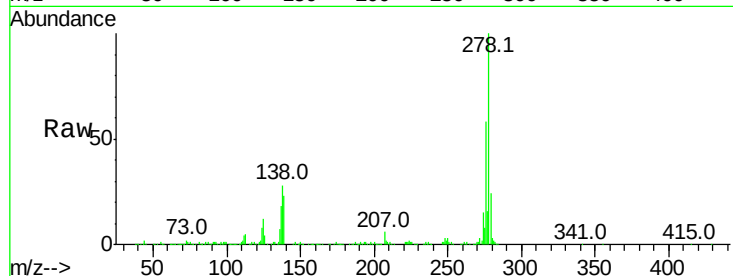




#28  
Dibenzo(a,h)anthracene  
Concen: 19.10 ng/ul  
RT: 28.42 min Scan# 4311  
Delta R.T. 0.01 min  
Lab File: BG027006.D  
Acq: 18 May 2017 15:56

Instrument :  
BNA\_G  
ClientSampleId :  
SICV98

Tot Ion:278 Resp: 707152  
Ion Ratio Lower Upper  
278 100  
139 23.2 12.2 18.4#  
279 24.4 19.2 28.8



#29  
Benzo(g,h,i)perylene  
Concen: 16.61 ng/ul  
RT: 29.49 min Scan# 4493  
Delta R.T. 0.01 min  
Lab File: BG027006.D  
Acq: 18 May 2017 15:56

Tgt Ion:276 Resp: 566834  
Ion Ratio Lower Upper  
276 100  
138 32.7 15.3 22.9#  
277 23.4 19.0 28.4

