

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE042418\  
 Data File : BE096128.D  
 Acq On : 24 Apr 2018 20:18  
 Operator : SJ/JU  
 Sample : J2431-09  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

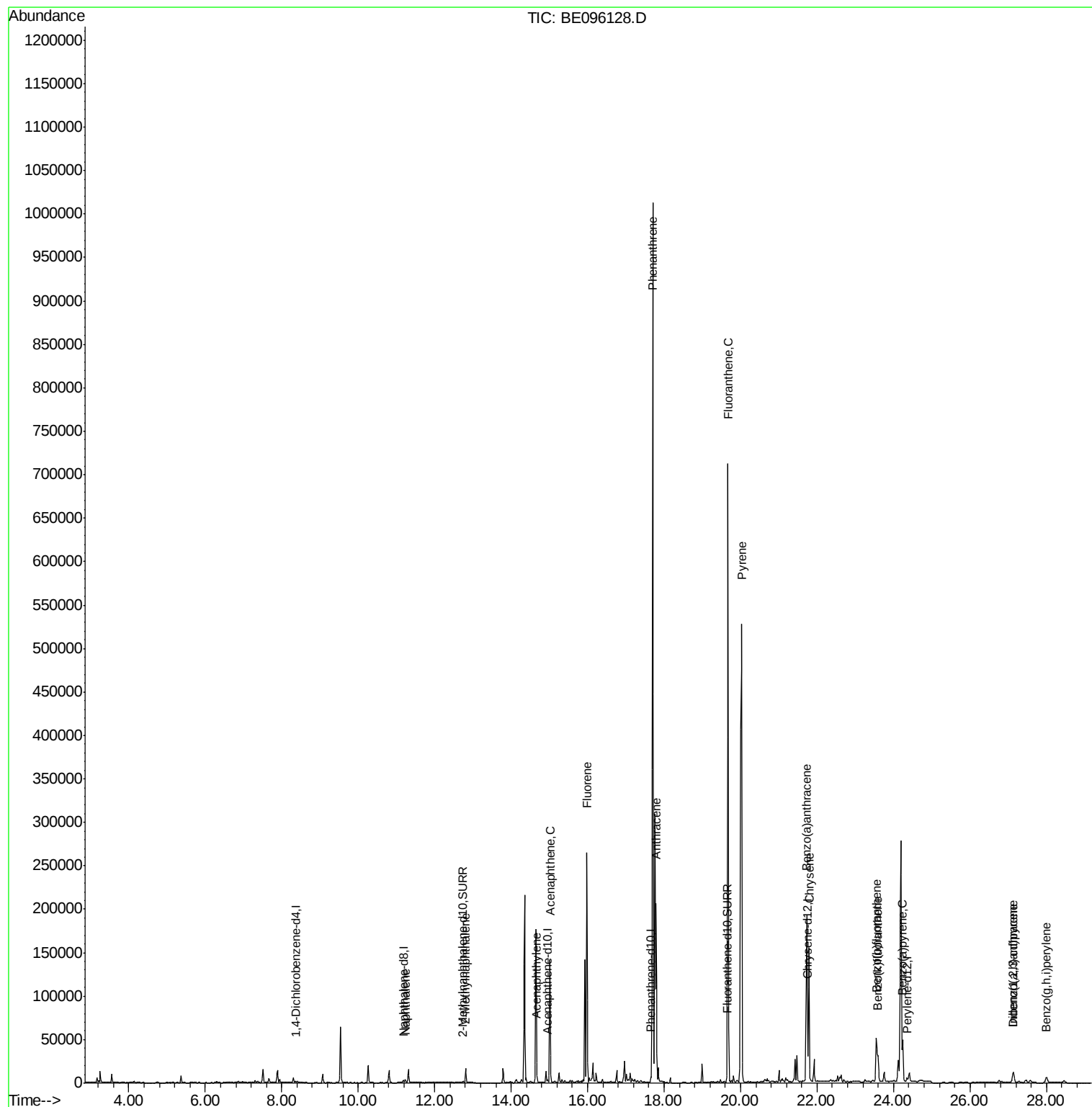
Quant Time: Apr 25 05:56:23 2018  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE042418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 25 05:27:03 2018  
 Response via : Initial Calibration

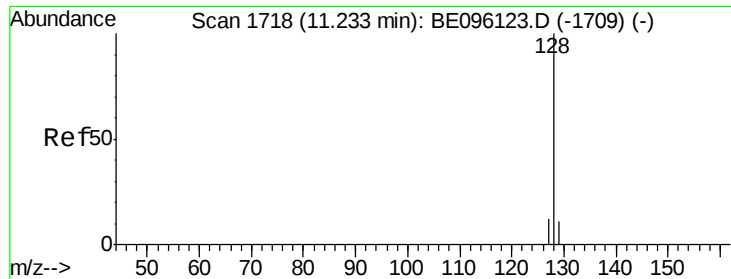
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.36  | 152  | 838      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.18 | 136  | 3320     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.95 | 164  | 2152     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 6003m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.75 | 240  | 9009m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.35 | 264  | 5635m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.74 | 152  | 1771     | 0.29   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.64 | 212  | 6746m    | 0.24   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Qvalue |          |
| 3) Naphthalene              | 11.23 | 128  | 5233     | 0.566  | ng/ul# | 90       |
| 5) 2-Methylnaphthalene      | 12.81 | 142  | 12809    | 2.068  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.68 | 152  | 4376     | 0.394  | ng/ul# | 88       |
| 8) Acenaphthene             | 15.01 | 153  | 82271    | 10.286 | ng/ul  | 94       |
| 9) Fluorene                 | 15.98 | 166  | 175807   | 16.611 | ng/ul# | 90       |
| 12) Phenanthrene            | 17.70 | 178  | 1139931m | 64.497 | ng/ul  |          |
| 13) Anthracene              | 17.80 | 178  | 220838m  | 12.454 | ng/ul  |          |
| 15) Fluoranthene            | 19.67 | 202  | 821764m  | 30.418 | ng/ul  |          |
| 17) Pyrene                  | 20.03 | 202  | 484534   | 26.809 | ng/ul# | 77       |
| 18) Benzo(a)anthracene      | 21.73 | 228  | 173672m  | 6.367  | ng/ul  |          |
| 19) Chrysene                | 21.79 | 228  | 149232   | 5.954  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 23.55 | 252  | 104085m  | 4.878  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.60 | 252  | 32913m   | 1.614  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.24 | 252  | 68675    | 3.705  | ng/ul# | 77       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.13 | 276  | 22929    | 0.918  | ng/ul# | 74       |
| 25) Dibenzo(a,h)anthracene  | 27.14 | 278  | 6701     | 0.320  | ng/ul  | 93       |
| 26) Benzo(g,h,i)perylene    | 28.00 | 276  | 16846    | 0.775  | ng/ul# | 94       |

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

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#3

Naphthalene

Concen: 0.566 ng/ul

RT: 11.23 min Scan# 1718

Delta R.T. 0.00 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

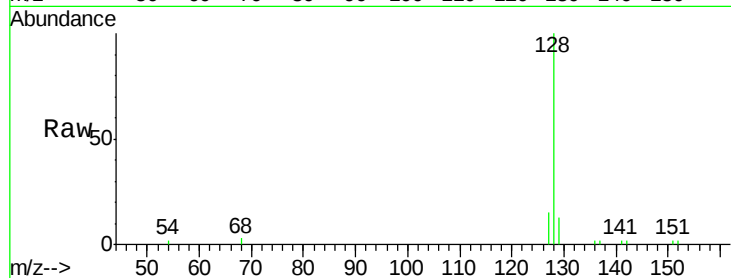
Tgt Ion:128 Resp: 5233

Ion Ratio Lower Upper

128 100

129 13.2 11.3 16.9

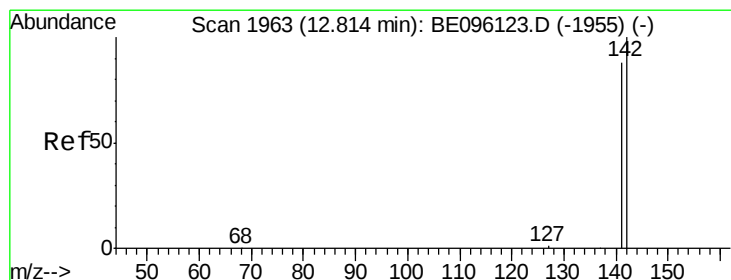
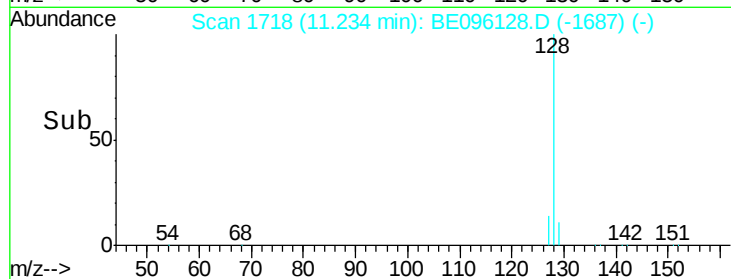
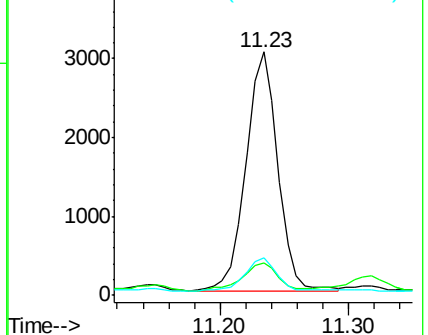
127 15.3 4.0 6.0#



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



#5

2-Methylnaphthalene

Concen: 2.068 ng/ul

RT: 12.81 min Scan# 1963

Delta R.T. 0.00 min

Lab File: BE096128.D

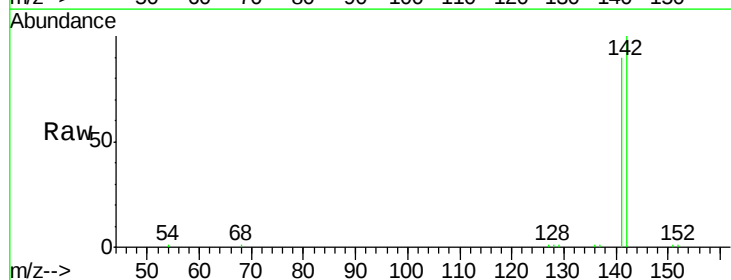
Acq: 24 Apr 2018 20:18

Tgt Ion:142 Resp: 12809

Ion Ratio Lower Upper

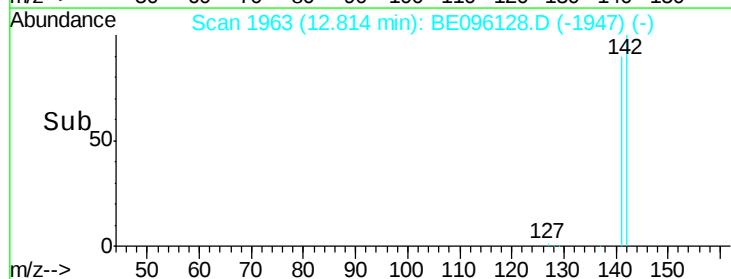
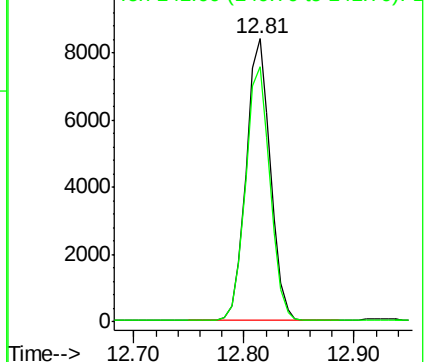
142 100

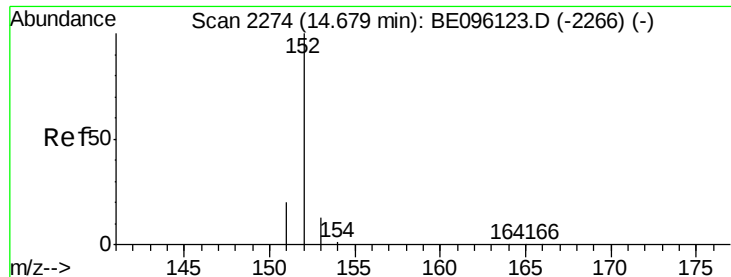
141 91.1 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.394 ng/ul

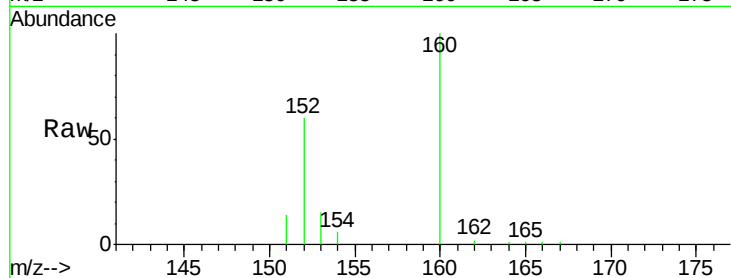
RT: 14.68 min Scan# 2273

Delta R.T. -0.00 min

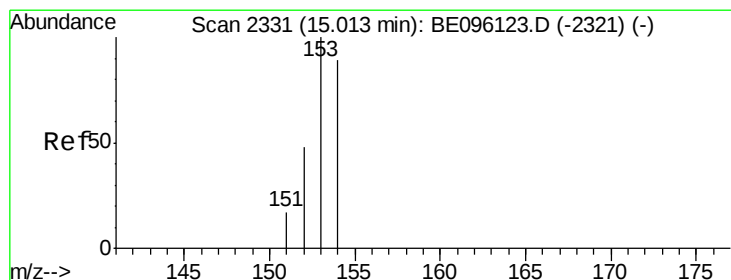
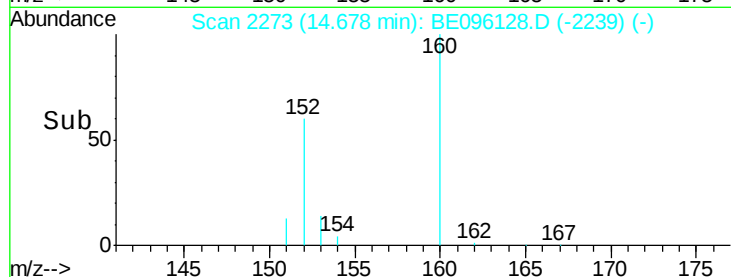
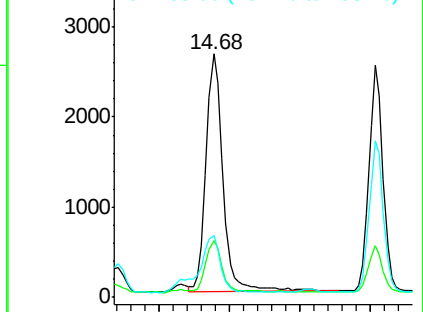
Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 4376  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 23.1  | 17.1  | 25.7  |
| 153      | 25.4  | 12.8  | 19.2# |



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



#8

Acenaphthene

Concen: 10.286 ng/ul

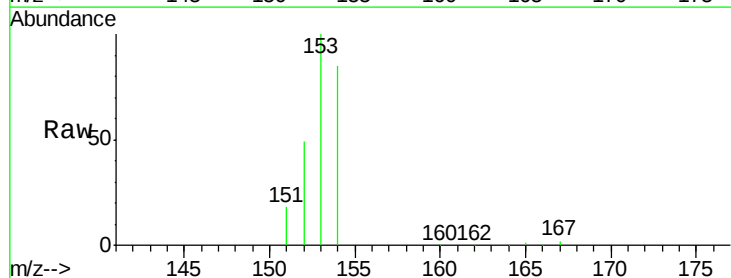
RT: 15.01 min Scan# 2330

Delta R.T. -0.00 min

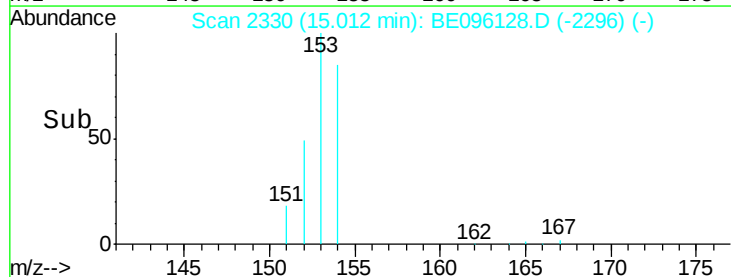
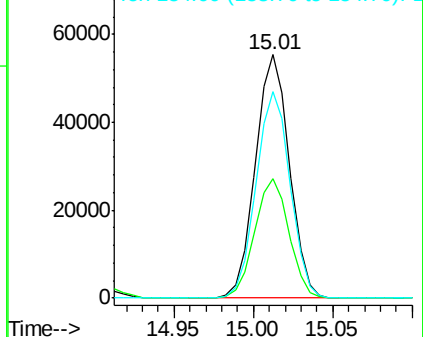
Lab File: BE096128.D

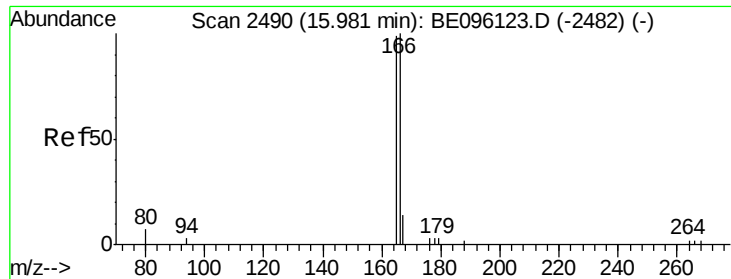
Acq: 24 Apr 2018 20:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 82271 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 49.2  | 36.0  | 54.0  |
| 154      | 84.6  | 72.0  | 108.0 |



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





#9

Fluorene

Concen: 16.611 ng/ul

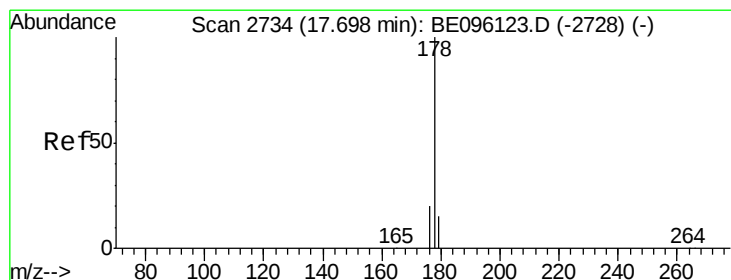
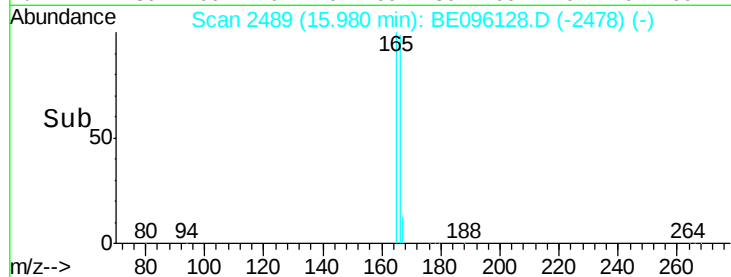
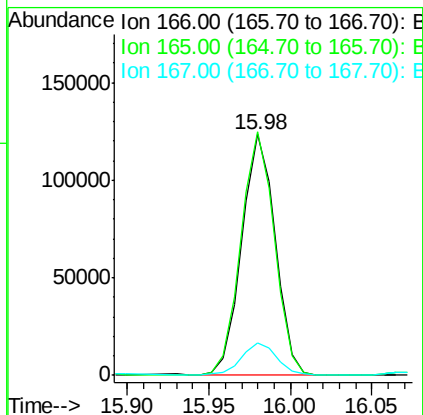
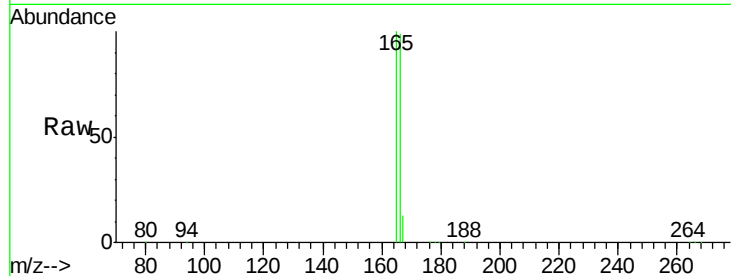
RT: 15.98 min Scan# 2489

Delta R.T. -0.00 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 175807 |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 101.1 | 73.4  | 110.2  |
| 167      | 13.3  | 14.6  | 22.0#  |



#12

Phenanthrene

Concen: 64.497 ng/ul m

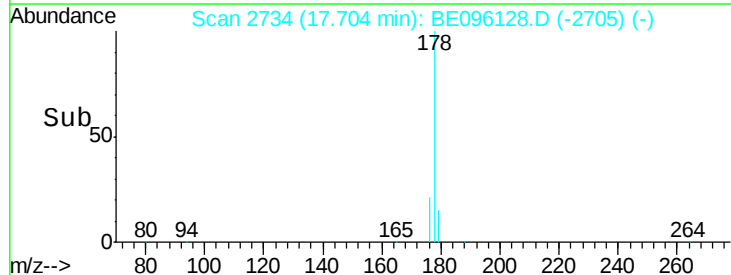
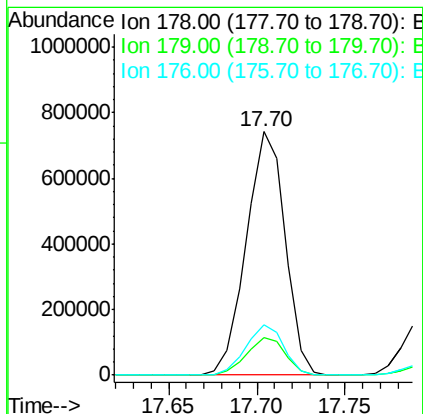
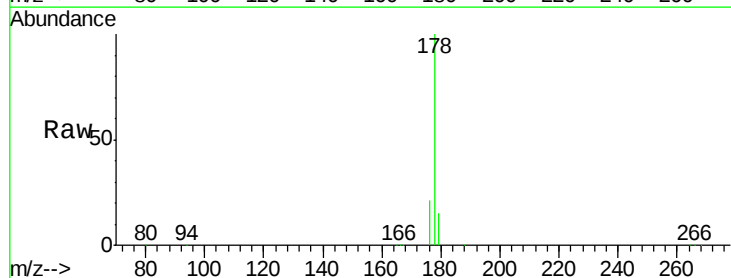
RT: 17.70 min Scan# 2734

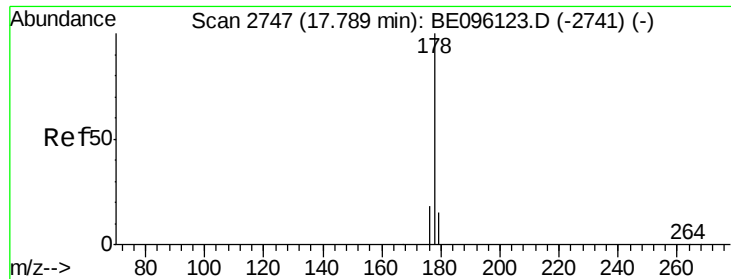
Delta R.T. 0.01 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 178   | Resp: | 1139931 |
| Ion      | Ratio | Lower | Upper   |
| 178      | 100   |       |         |
| 179      | 15.4  | 18.4  | 27.6#   |
| 176      | 20.8  | 13.6  | 20.4#   |





#13

Anthracene

Concen: 12.454 ng/ul m

RT: 17.80 min Scan# 2747

Delta R.T. 0.01 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

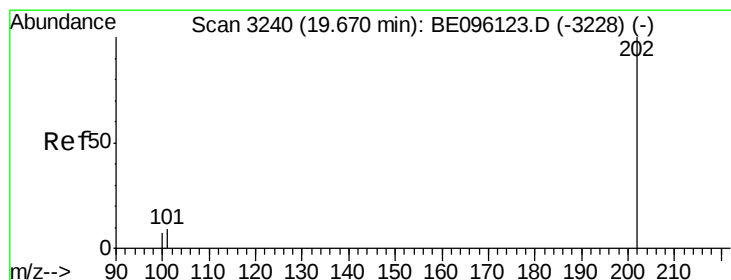
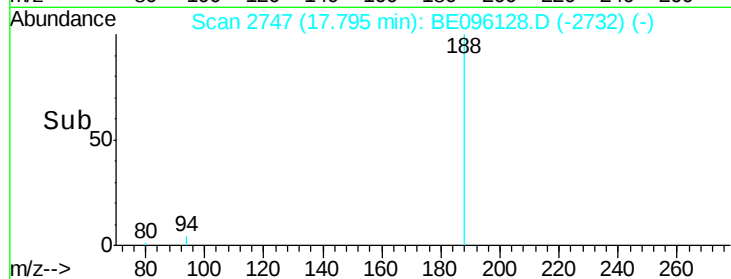
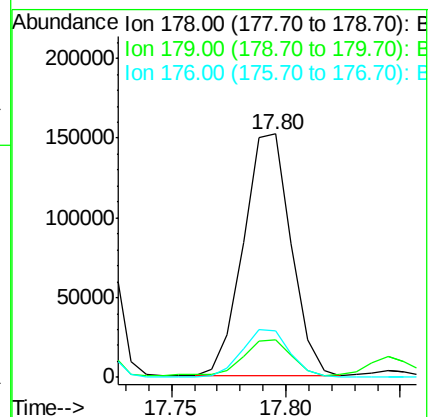
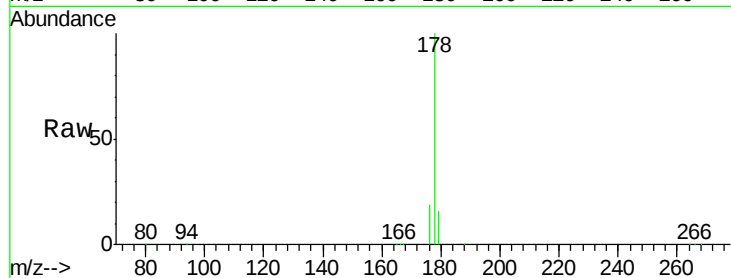
Tgt Ion:178 Resp: 220838

Ion Ratio Lower Upper

178 100

179 15.5 18.1 27.1#

176 18.9 14.7 22.1



#15

Fluoranthene

Concen: 30.418 ng/ul m

RT: 19.67 min Scan# 3240

Delta R.T. 0.00 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

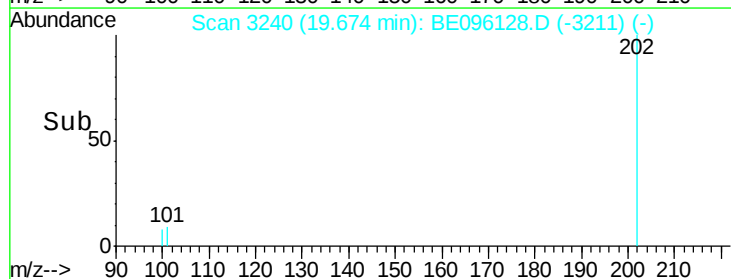
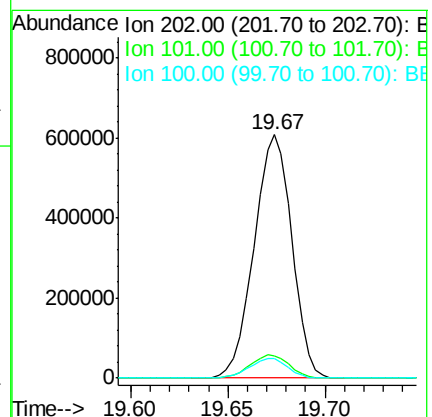
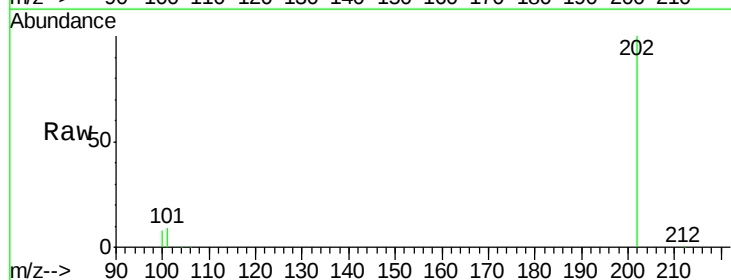
Tgt Ion:202 Resp: 821764

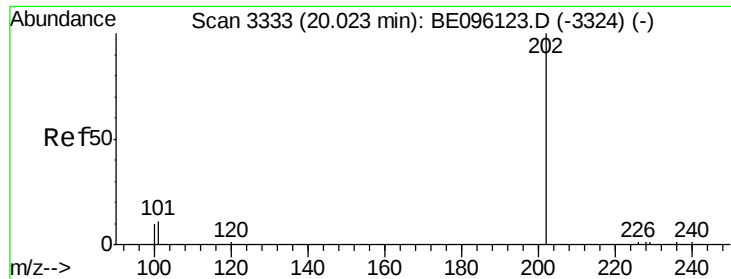
Ion Ratio Lower Upper

202 100

101 9.3 0.0 30.3

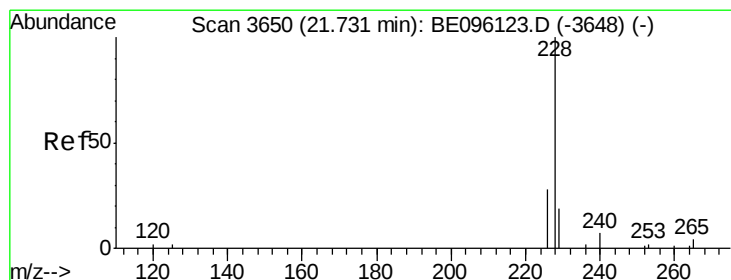
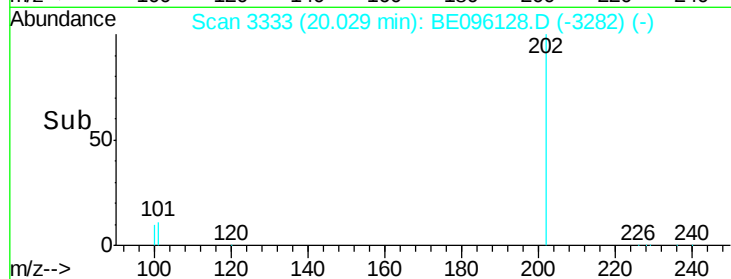
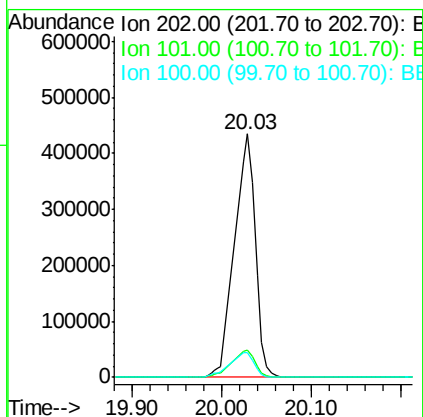
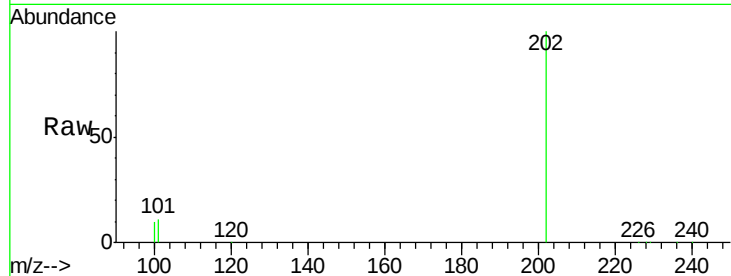
100 7.8 0.0 39.5





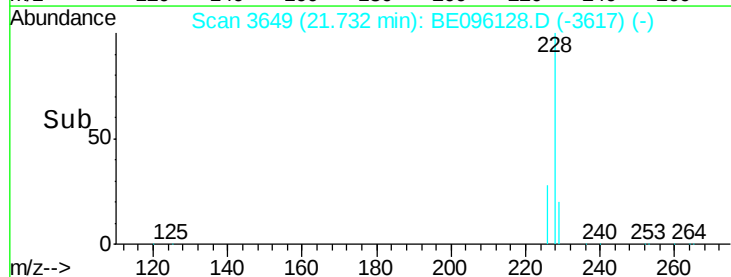
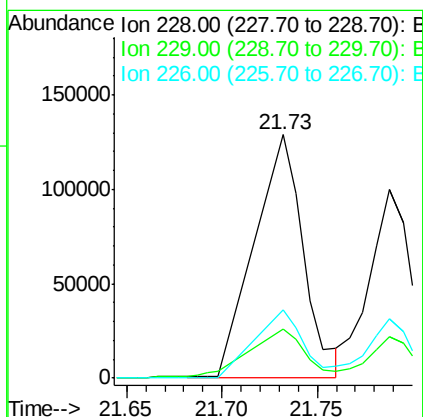
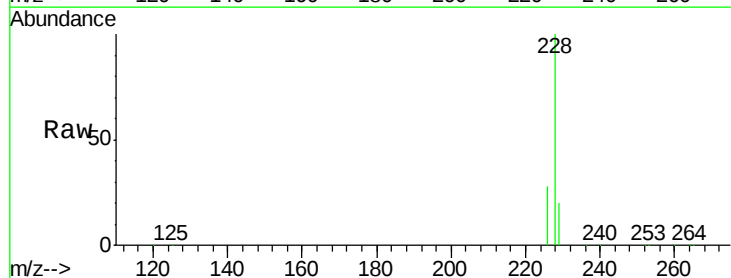
#17  
 Pyrene  
 Concen: 26.809 ng/ul  
 RT: 20.03 min Scan# 3333  
 Delta R.T. 0.01 min  
 Lab File: BE096128.D  
 Acq: 24 Apr 2018 20:18

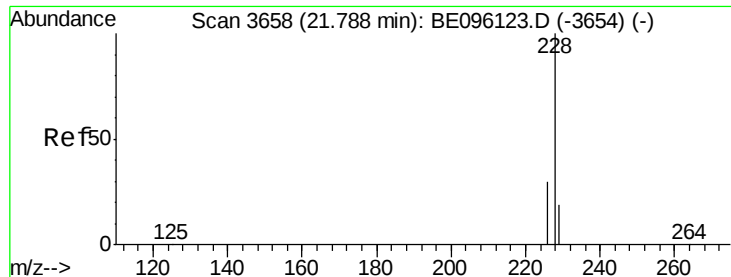
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.2  | 18.2  | 27.4# |
| 100     | 10.0  | 15.6  | 23.4# |



#18  
 Benzo(a)anthracene  
 Concen: 6.367 ng/ul m  
 RT: 21.73 min Scan# 3649  
 Delta R.T. 0.00 min  
 Lab File: BE096128.D  
 Acq: 24 Apr 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.1  | 22.8  | 34.2# |
| 226     | 28.2  | 17.0  | 25.6# |





#19

Chrysene

Concen: 5.954 ng/ul

RT: 21.79 min Scan# 3657

Delta R.T. 0.00 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

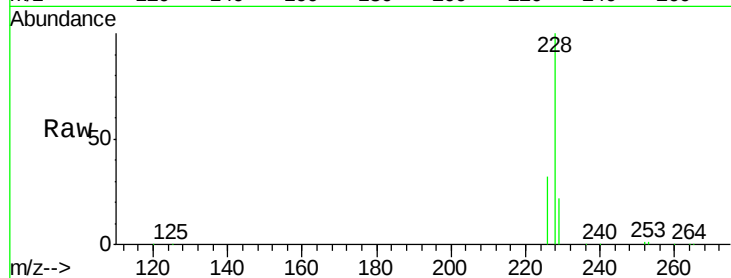
Tgt Ion: 228 Resp: 149232

Ion Ratio Lower Upper

228 100

226 31.6 23.4 35.0

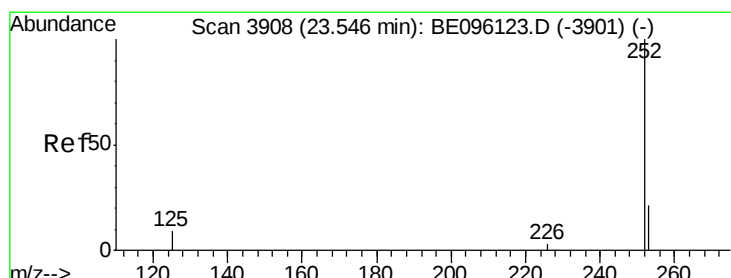
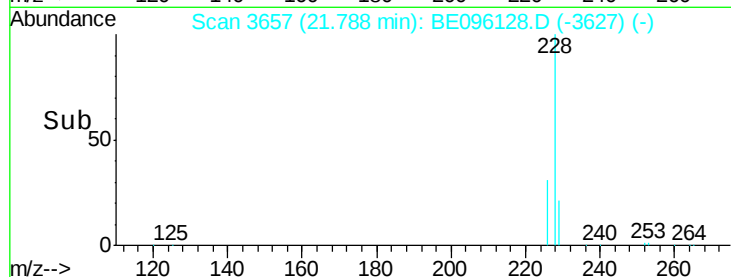
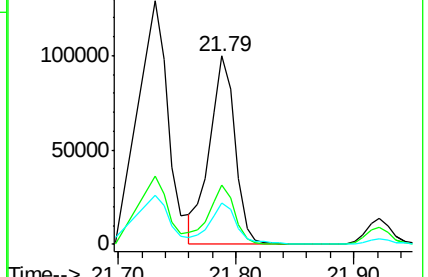
229 21.7 17.7 26.5



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



#21

Benzo(b)fluoranthene

Concen: 4.878 ng/ul m

RT: 23.55 min Scan# 3908

Delta R.T. 0.01 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

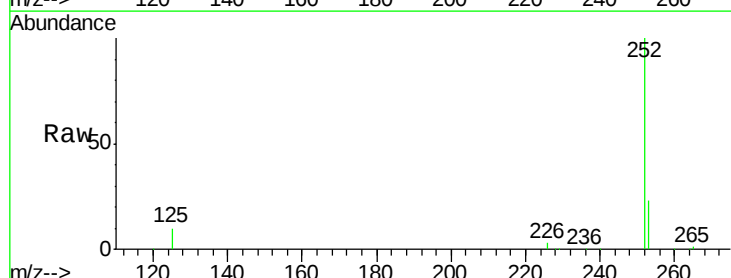
Tgt Ion: 252 Resp: 104085

Ion Ratio Lower Upper

252 100

253 22.5 0.0 64.2

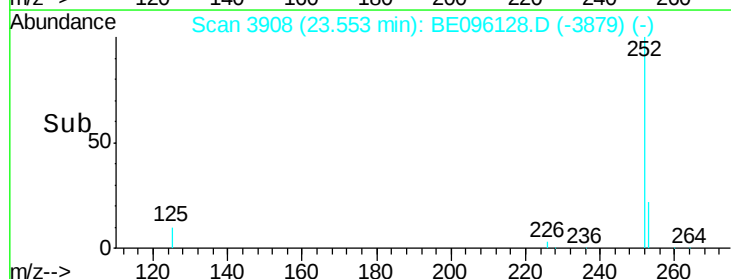
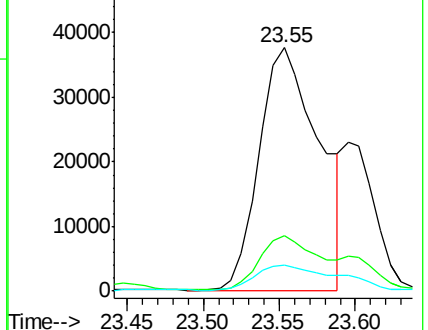
125 10.4 0.0 35.0

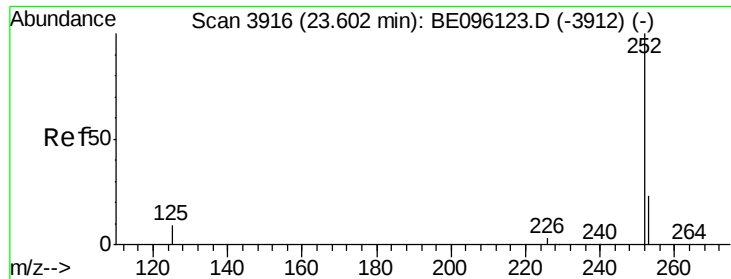


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#22

Benzo(k)fluoranthene

Concen: 1.614 ng/ul m

RT: 23.60 min Scan# 3914

Delta R.T. -0.01 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

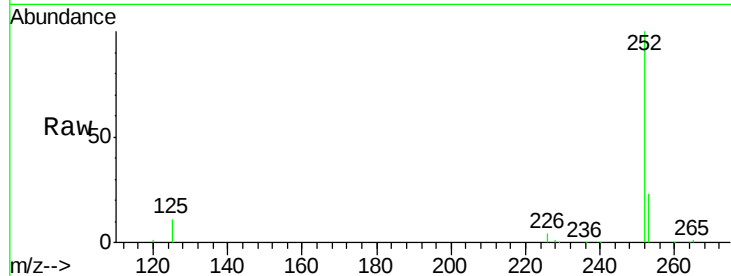
Tgt Ion: 252 Resp: 32913

Ion Ratio Lower Upper

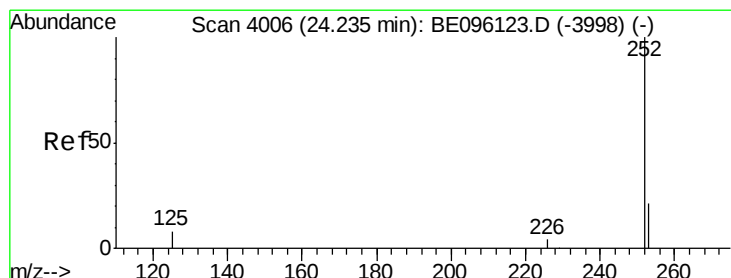
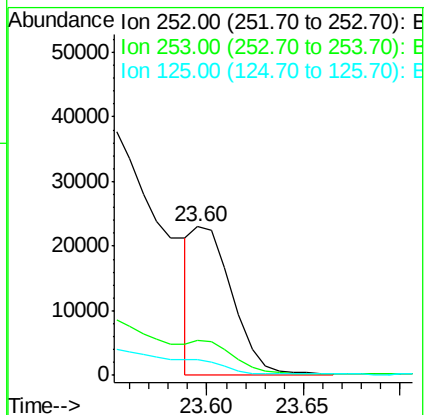
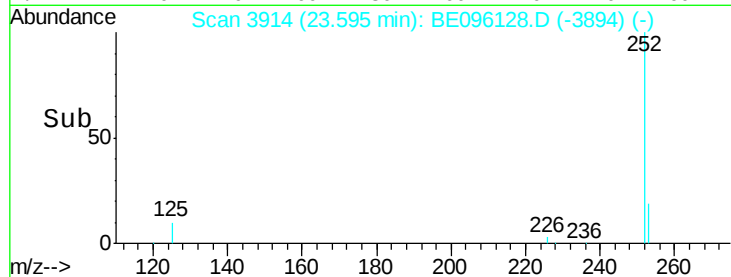
252 100

253 23.1 24.5 36.7#

125 10.7 13.7 20.5#



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



#23

Benzo(a)pyrene

Concen: 3.705 ng/ul

RT: 24.24 min Scan# 4006

Delta R.T. 0.01 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

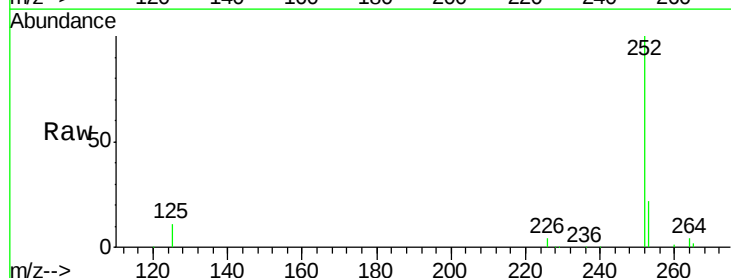
Tgt Ion: 252 Resp: 68675

Ion Ratio Lower Upper

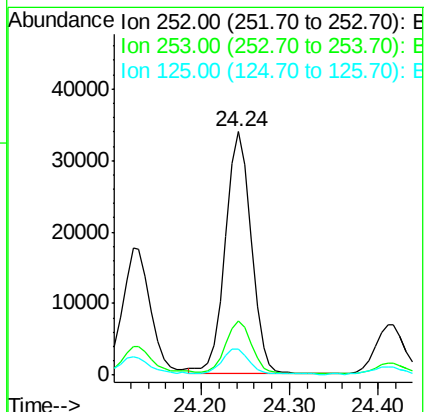
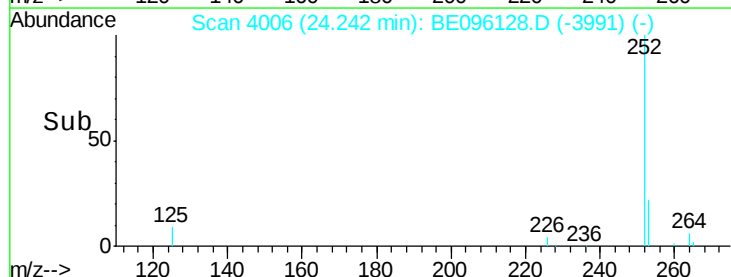
252 100

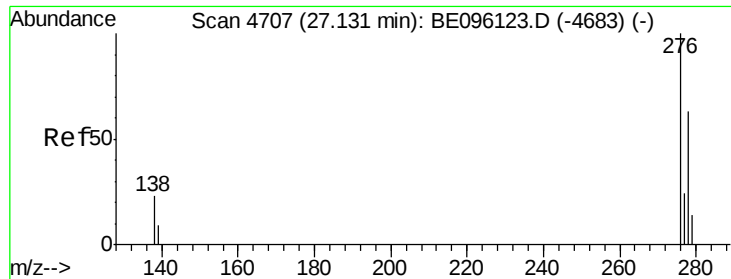
253 22.5 28.5 42.7#

125 10.6 18.1 27.1#



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

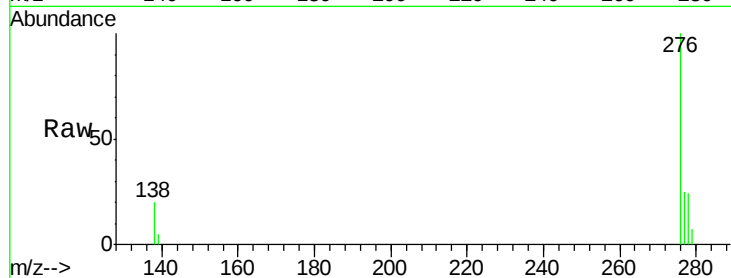




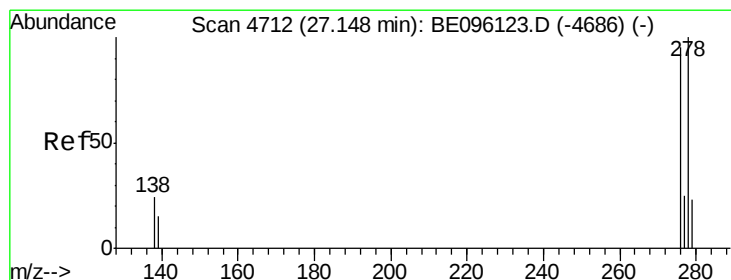
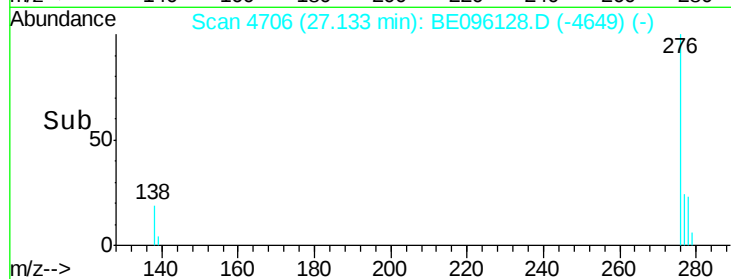
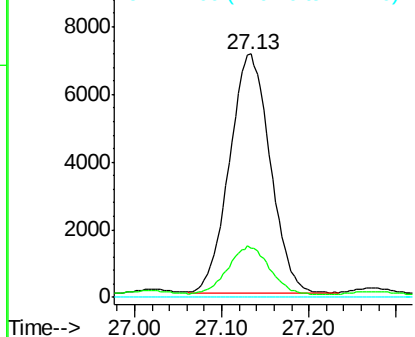
#24

Indeno(1,2,3-cd)pyrene  
Concen: 0.918 ng/ul  
RT: 27.13 min Scan# 4706  
Delta R.T. 0.00 min  
Lab File: BE096128.D  
Acq: 24 Apr 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.4  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |



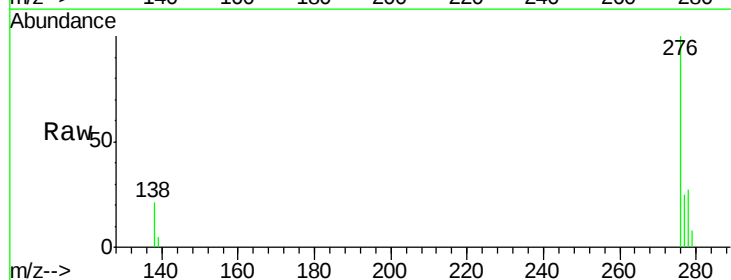
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



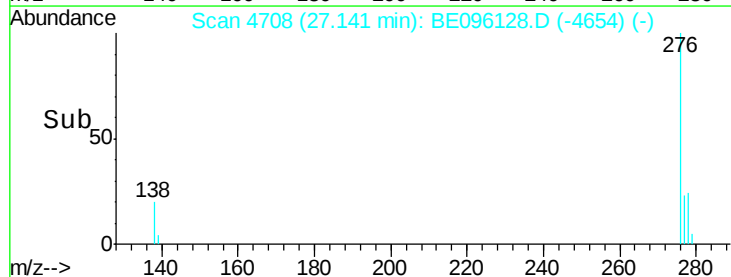
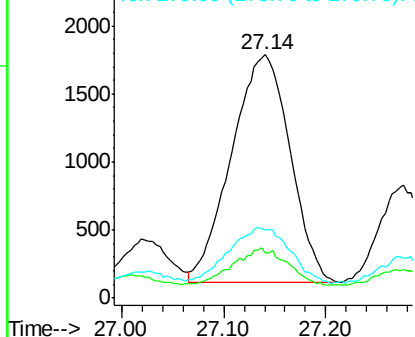
#25

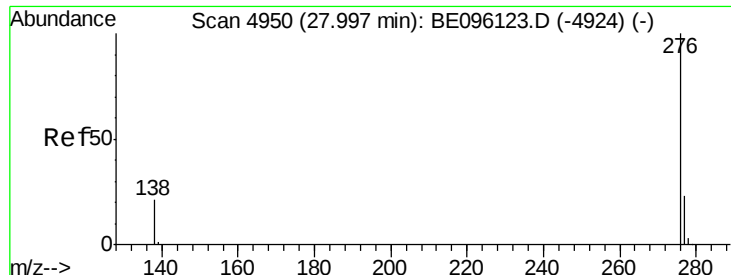
Dibenzo(a,h)anthracene  
Concen: 0.320 ng/ul  
RT: 27.14 min Scan# 4708  
Delta R.T. -0.01 min  
Lab File: BE096128.D  
Acq: 24 Apr 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.3  | 17.4  | 26.0  |
| 279     | 28.1  | 25.9  | 38.9  |



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





#26

Benzo(g,h,i)perylene

Concen: 0.775 ng/ul

RT: 28.00 min Scan# 4949

Delta R.T. 0.00 min

Lab File: BE096128.D

Acq: 24 Apr 2018 20:18

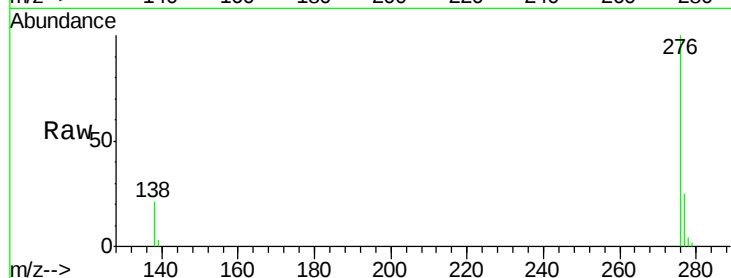
Tgt Ion: 276 Resp: 16846

Ion Ratio Lower Upper

276 100

138 21.1 21.8 32.8#

277 25.3 20.5 30.7



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

