

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042618\  
 Data File : BN000935.D  
 Acq On : 26 Apr 2018 16:54  
 Operator : JU/SJ  
 Sample : J2485-11  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 27 07:52:56 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 27 07:47:48 2018  
 Response via : Initial Calibration

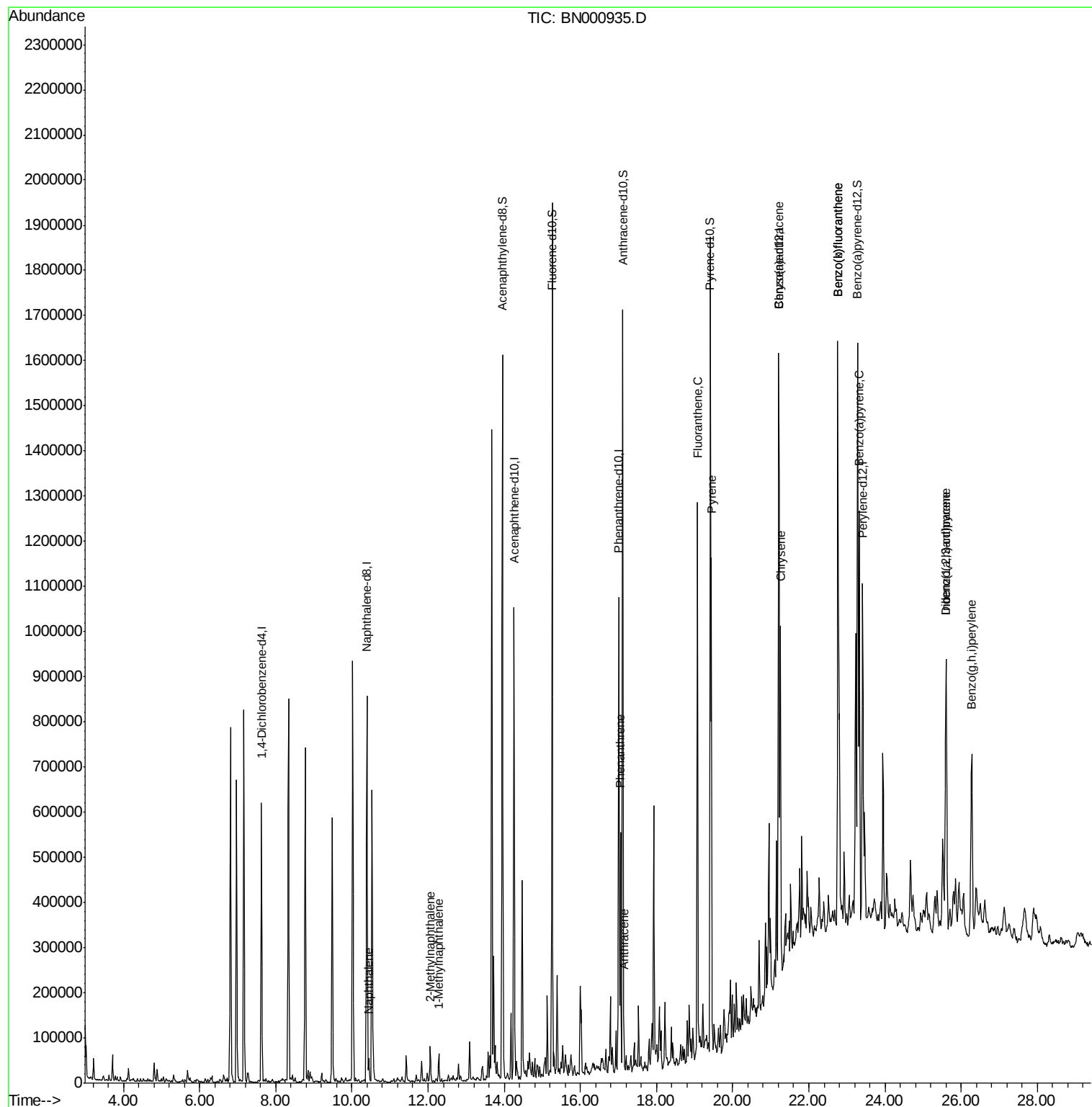
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 154720   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 656849   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 320644   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.01 | 188  | 553531   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.22 | 240  | 452807   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.42 | 264  | 488164   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 13.95 | 160  | 1031341  | 33.49  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.26 | 176  | 683203   | 33.24  | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.10 | 188  | 873141   | 34.49  | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.41 | 212  | 818720   | 35.29  | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.28 | 264  | 868809   | 37.68  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 40740    | 1.231  | ng/ul  | 98       |
| 4) 2-Methylnaphthalene      | 12.06 | 142  | 34266    | 1.551  | ng/ul  | 97       |
| 5) 1-Methylnaphthalene      | 12.28 | 142  | 28881    | 1.333  | ng/ul# | 90       |
| 13) Phenanthrene            | 17.05 | 178  | 288639   | 9.561  | ng/ul  | 99       |
| 15) Anthracene              | 17.14 | 178  | 66988    | 2.212  | ng/ul  | 98       |
| 16) Fluoranthene            | 19.07 | 202  | 640737   | 20.919 | ng/ul# | 94       |
| 19) Pyrene                  | 19.44 | 202  | 553114   | 19.017 | ng/ul# | 89       |
| 20) Benzo(a)anthracene      | 21.20 | 228  | 373538   | 13.800 | ng/ul  | 95       |
| 21) Chrysene                | 21.25 | 228  | 383110   | 15.059 | ng/ul  | 97       |
| 23) Benzo(b)fluoranthene    | 22.76 | 252  | 856327   | 30.867 | ng/ul# | 97       |
| 24) Benzo(k)fluoranthene    | 22.76 | 252  | 843868   | 31.085 | ng/ul# | 97       |
| 26) Benzo(a)pyrene          | 23.32 | 252  | 516920   | 19.497 | ng/ul# | 95       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.60 | 276  | 481923   | 15.049 | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.60 | 278  | 132389   | 4.960  | ng/ul# | 82       |
| 29) Benzo(g,h,i)perylene    | 26.27 | 276  | 432182   | 16.136 | ng/ul# | 93       |

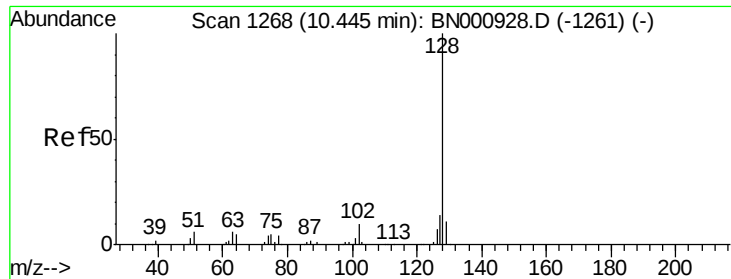
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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ClientSampled :

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Quant Title : SVOA CALIBRATION  
QLast Update : Fri Apr 27 07:47:48 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.231 ng/ul

RT: 10.44 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

Instrument :

BNA\_N

ClientSampleId :

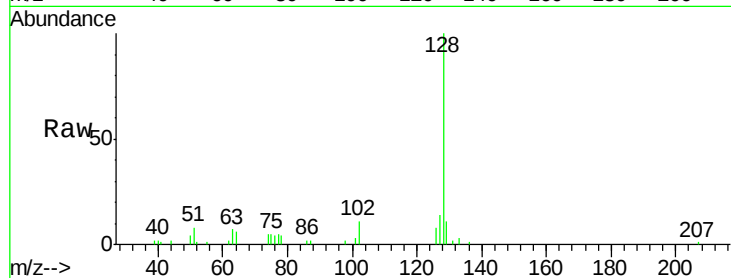
Tot Ion:128 Resp: 40740

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

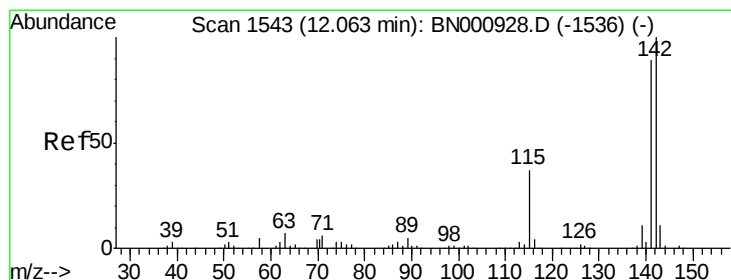
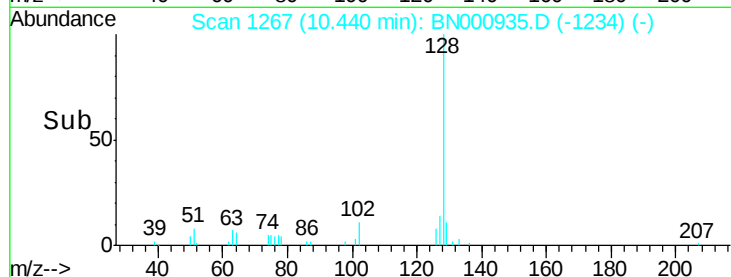
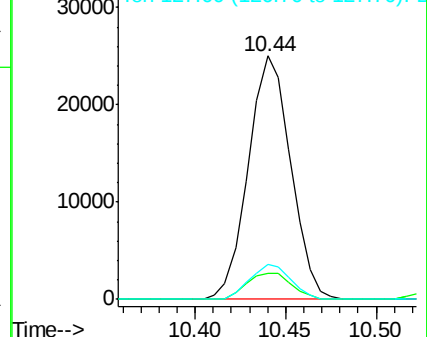
127 14.4 10.6 16.0



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: 1.551 ng/ul

RT: 12.06 min Scan# 1542

Delta R.T. -0.01 min

Lab File: BN000935.D

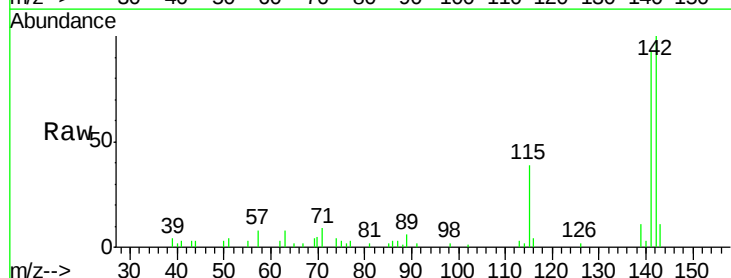
Acq: 26 Apr 2018 16:54

Tgt Ion:142 Resp: 34266

Ion Ratio Lower Upper

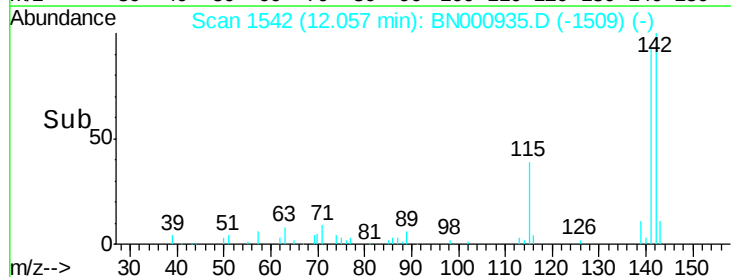
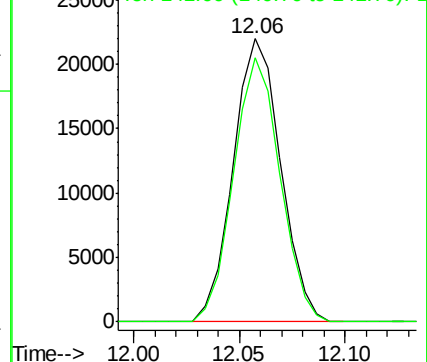
142 100

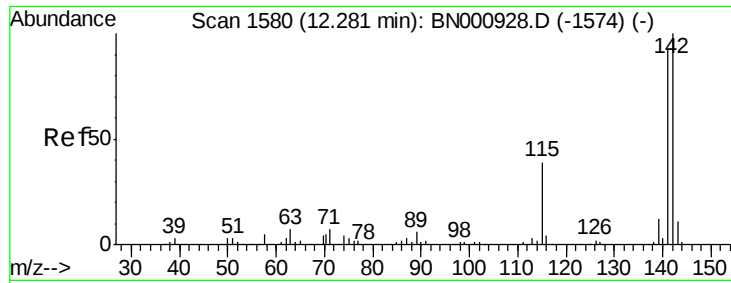
141 93.3 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 1.333 ng/ul

RT: 12.28 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

Instrument :

BNA\_N

ClientSampled :

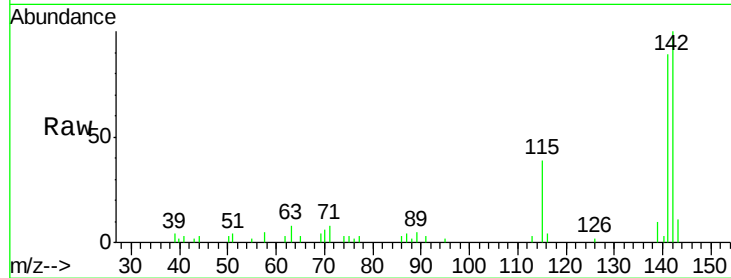
Tot Ion:142 Resp: 28881

Ion Ratio Lower Upper

142 100

141 88.8 79.3 118.9

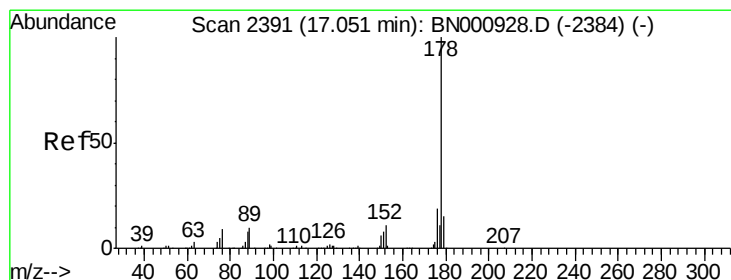
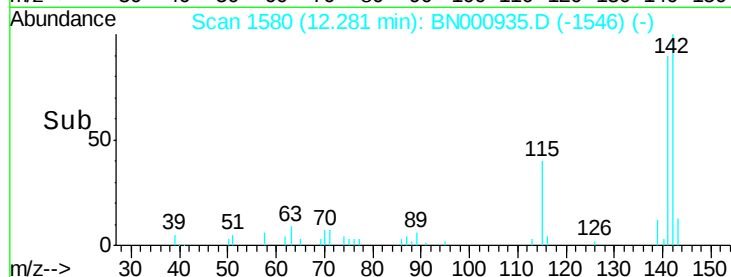
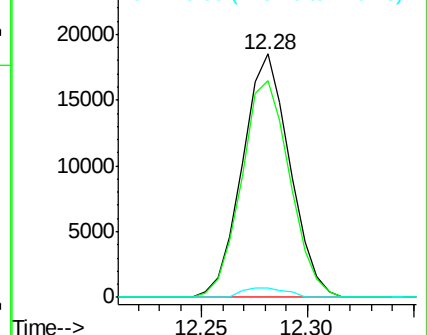
116 3.7 4.2 6.2#



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



#13

Phenanthrene

Concen: 9.561 ng/ul

RT: 17.05 min Scan# 2391

Delta R.T. 0.00 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

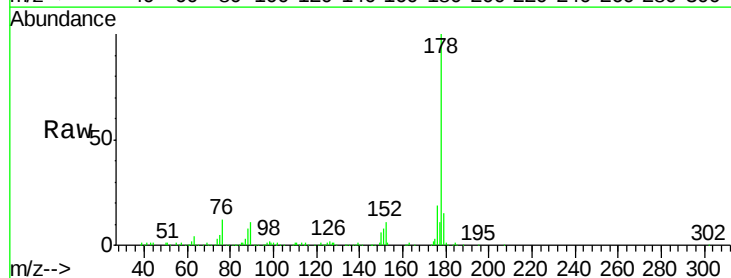
Tgt Ion:178 Resp: 288639

Ion Ratio Lower Upper

178 100

179 15.4 12.3 18.5

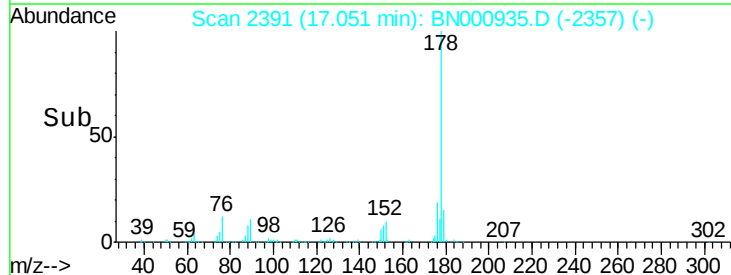
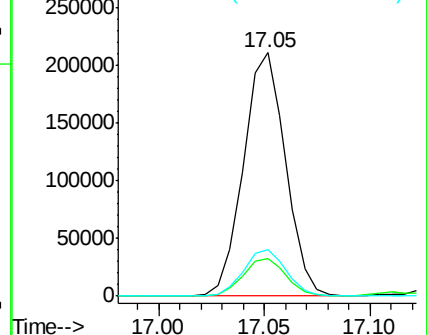
176 19.4 15.1 22.7

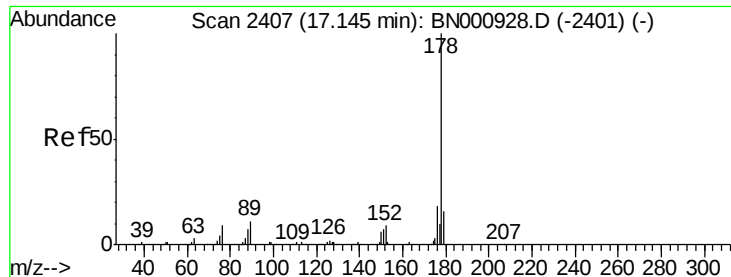


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

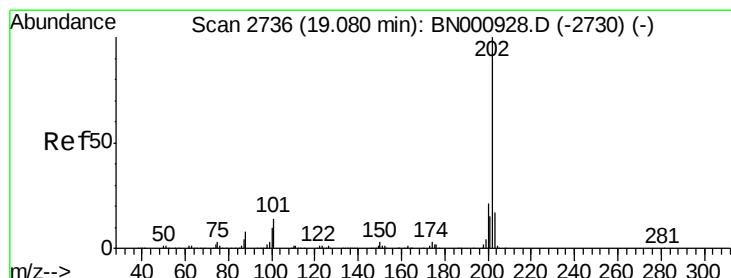
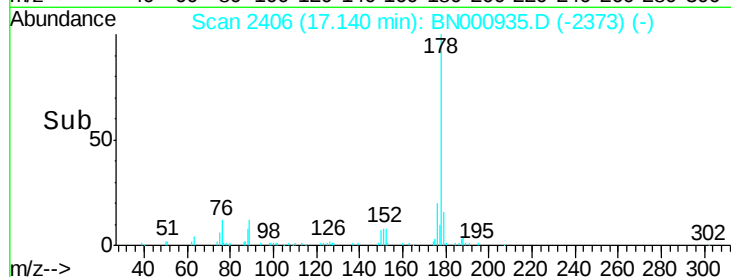
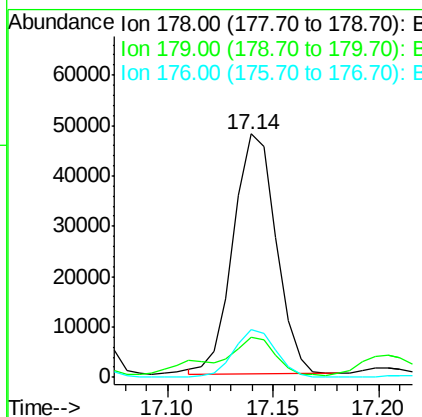
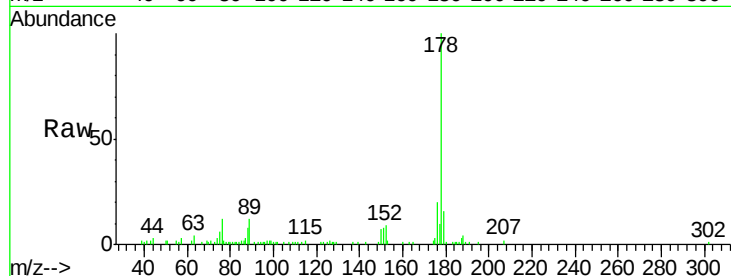




#15  
 Anthracene  
 Concen: 2.212 ng/ul  
 RT: 17.14 min Scan# 2406  
 Delta R.T. -0.01 min  
 Lab File: BN000935.D  
 Acq: 26 Apr 2018 16:54

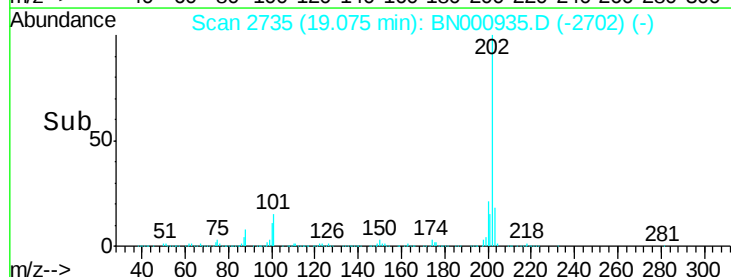
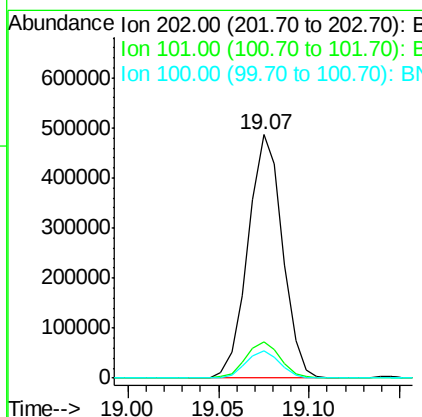
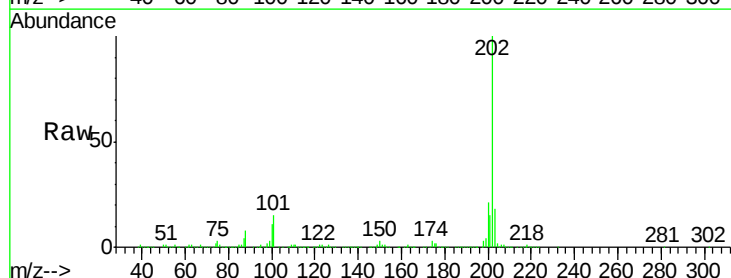
Instrument :  
 BNA\_N  
 ClientSampleId :

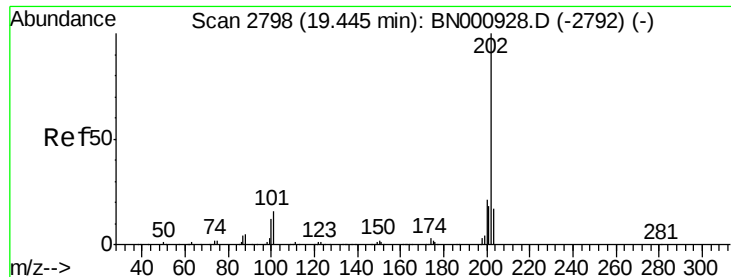
Tot Ion:178 Resp: 66988  
 Ion Ratio Lower Upper  
 178 100  
 179 16.3 11.8 17.8  
 176 19.7 15.2 22.8



#16  
 Fluoranthene  
 Concen: 20.919 ng/ul  
 RT: 19.07 min Scan# 2735  
 Delta R.T. -0.01 min  
 Lab File: BN000935.D  
 Acq: 26 Apr 2018 16:54

Tgt Ion:202 Resp: 640737  
 Ion Ratio Lower Upper  
 202 100  
 101 15.0 9.9 14.9#  
 100 11.1 7.4 11.0#

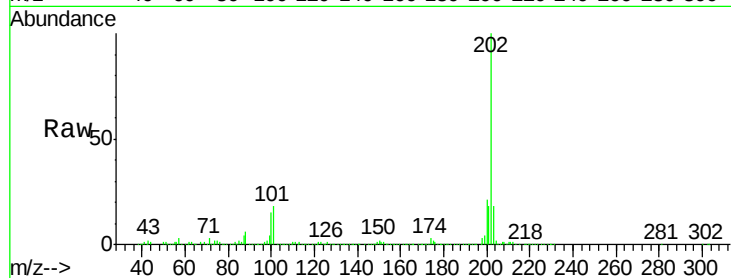




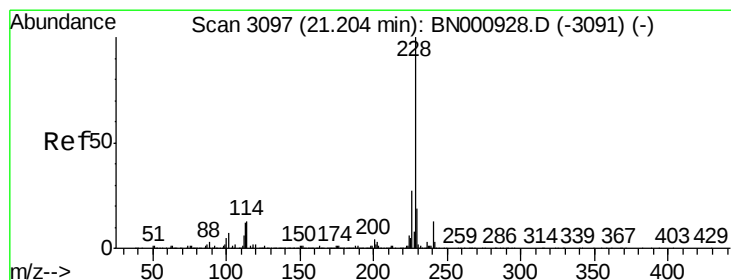
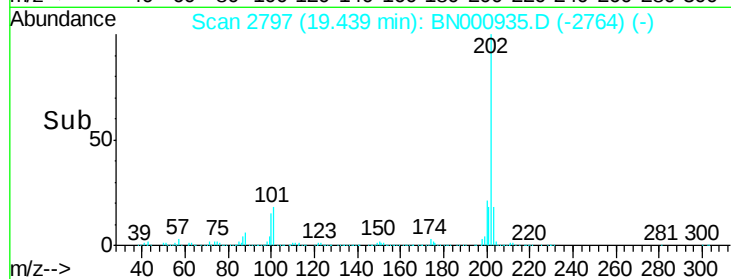
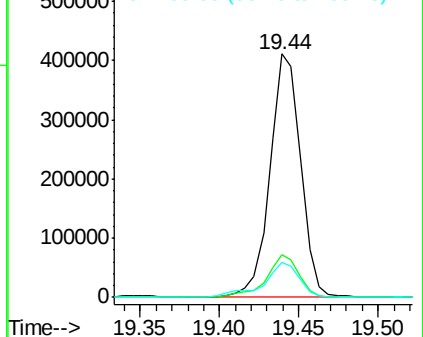
#19  
Pvrene  
Concen: 19.017 ng/ul  
RT: 19.44 min Scan# 2797  
Delta R.T. -0.01 min  
Lab File: BN000935.D  
Acq: 26 Apr 2018 16:54

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:202 Resp: 553114  
Ion Ratio Lower Upper  
202 100  
101 17.7 11.0 16.4#  
100 14.5 8.1 12.1#

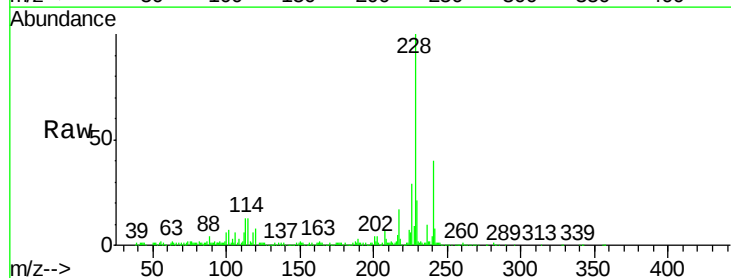


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

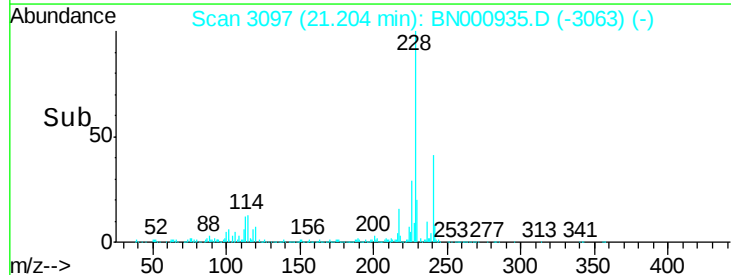
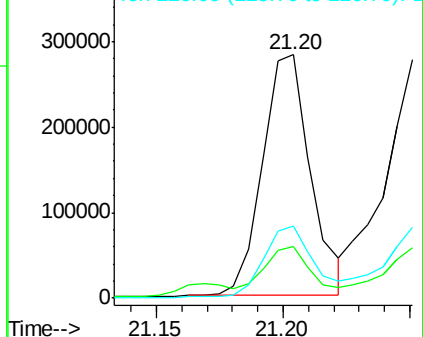


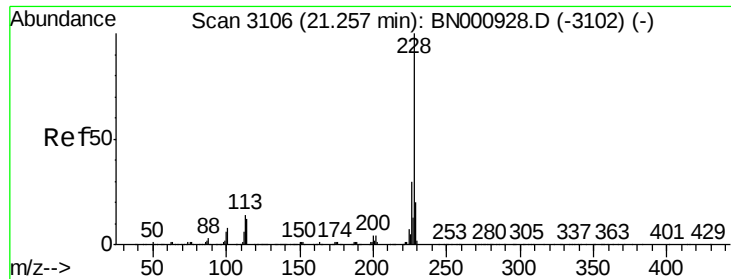
#20  
Benzo(a)anthracene  
Concen: 13.800 ng/ul  
RT: 21.20 min Scan# 3097  
Delta R.T. 0.00 min  
Lab File: BN000935.D  
Acq: 26 Apr 2018 16:54

Tgt Ion:228 Resp: 373538  
Ion Ratio Lower Upper  
228 100  
229 21.2 15.7 23.5  
226 29.5 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: 15.059 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. -0.01 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

Instrument :

BNA\_N

ClientSampleId :

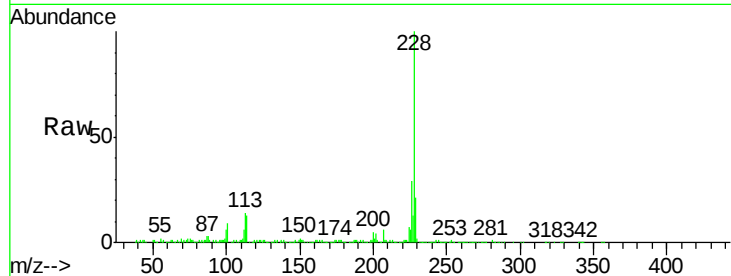
Tot Ion:228 Resp: 383110

Ion Ratio Lower Upper

228 100

226 29.4 24.5 36.7

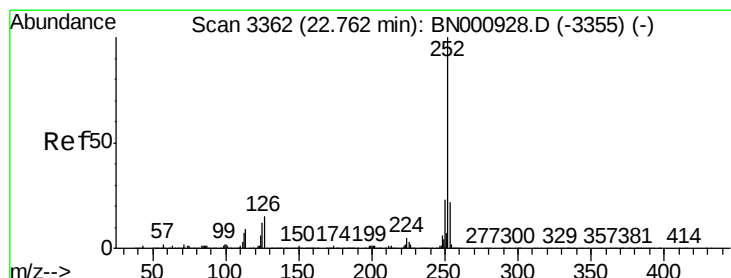
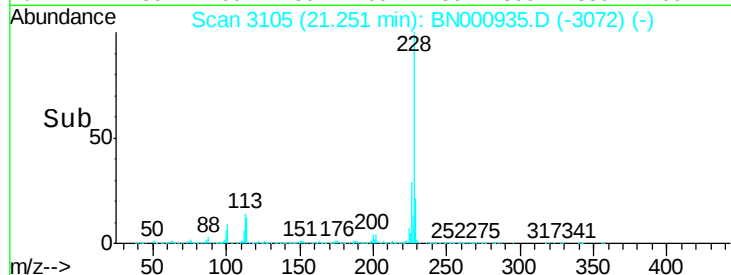
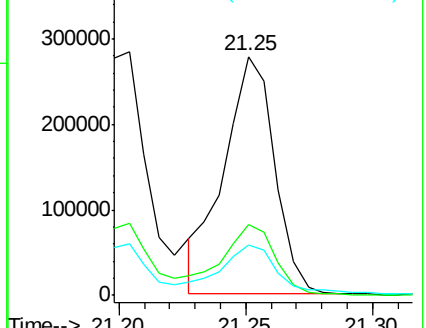
229 21.3 15.8 23.8



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: 30.867 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. 0.00 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

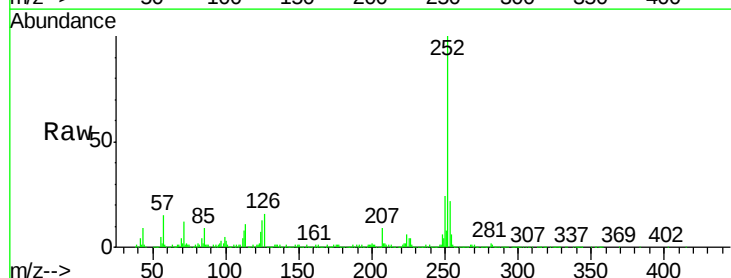
Tgt Ion:252 Resp: 856327

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

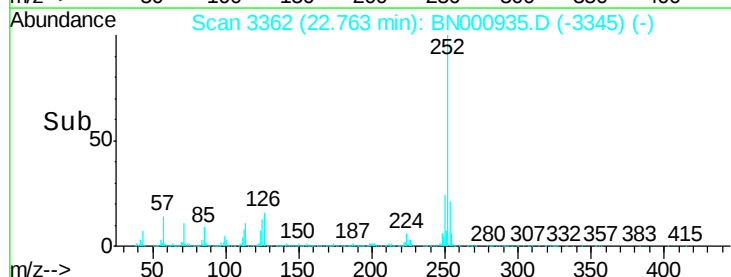
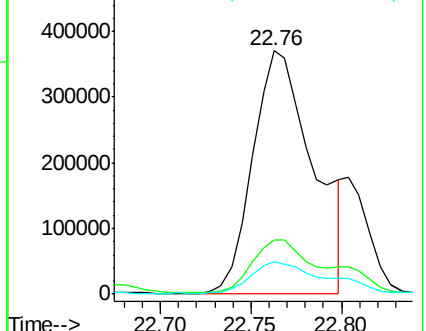
125 13.2 8.0 12.0#

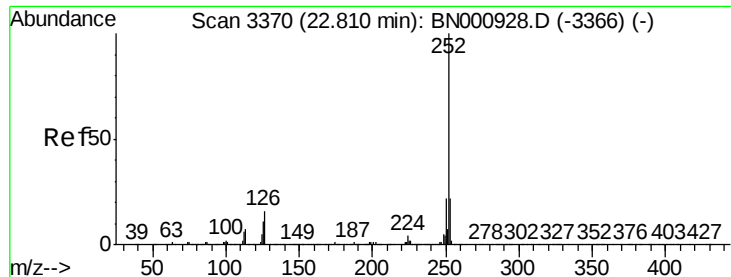


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 31.085 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. -0.05 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

Instrument :

BNA\_N

ClientSampled :

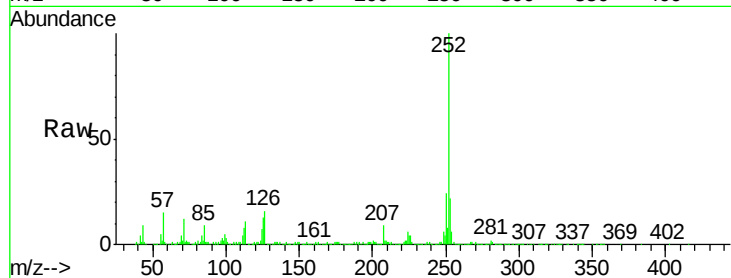
Tot Ion:252 Resp: 843868

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

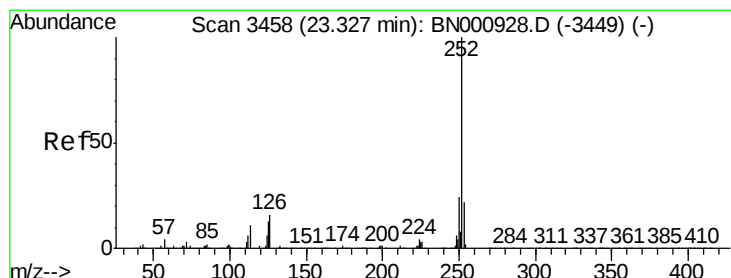
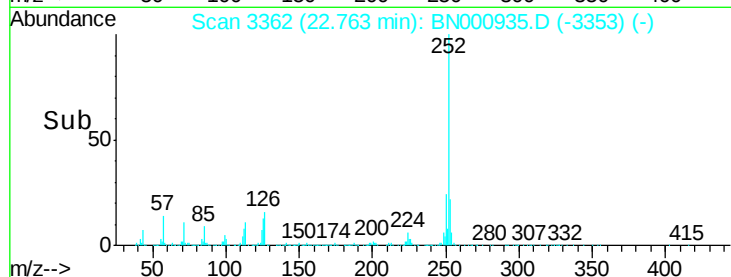
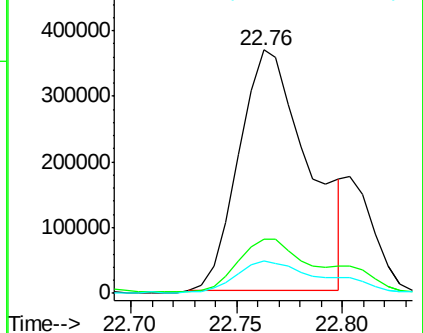
125 13.2 8.1 12.1#



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: 19.497 ng/ul

RT: 23.32 min Scan# 3457

Delta R.T. -0.01 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

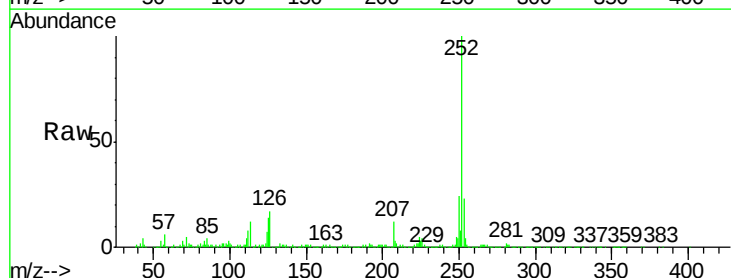
Tgt Ion:252 Resp: 516920

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

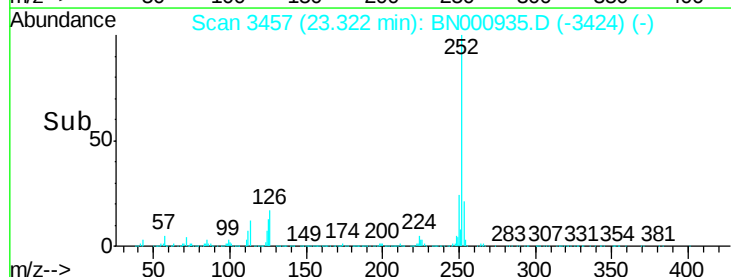
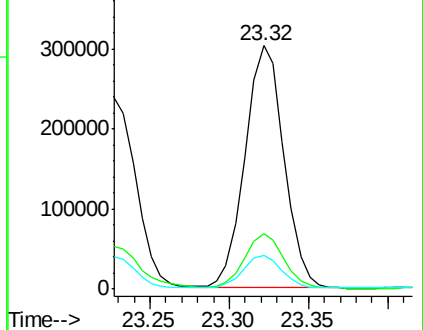
125 13.9 8.2 12.4#

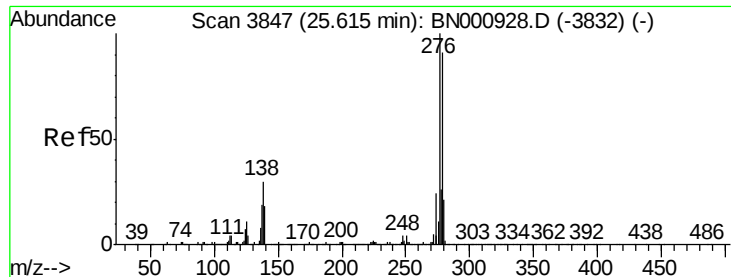


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

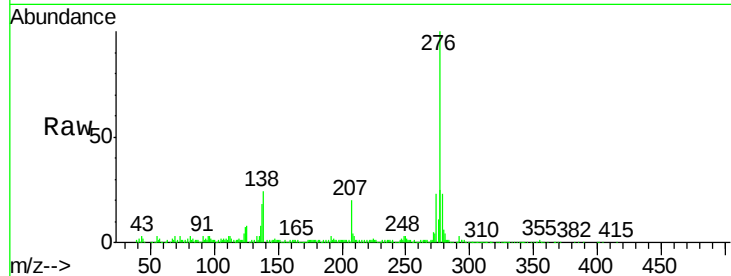




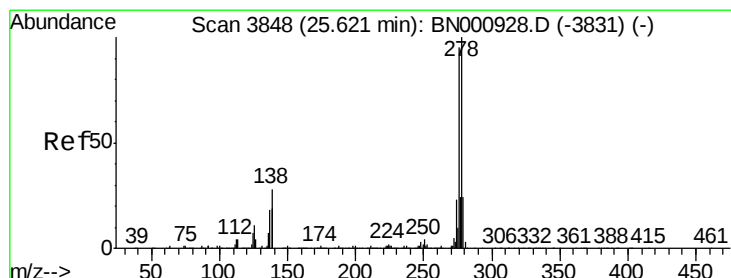
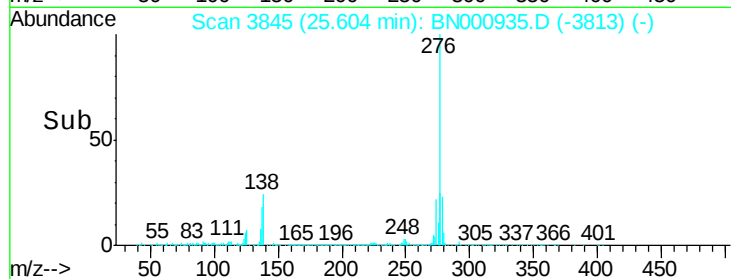
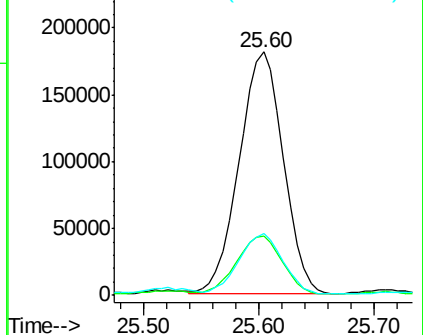
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 15.049 ng/ul  
 RT: 25.60 min Scan# 3845  
 Delta R.T. -0.01 min  
 Lab File: BN000935.D  
 Acq: 26 Apr 2018 16:54

Instrument :  
 BNA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.1  | 14.4  | 21.6# |
| 277     | 25.3  | 18.0  | 27.0  |

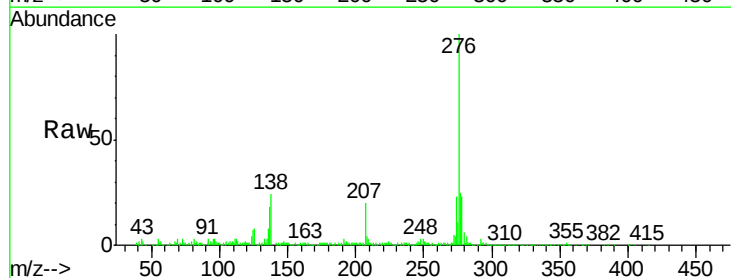


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

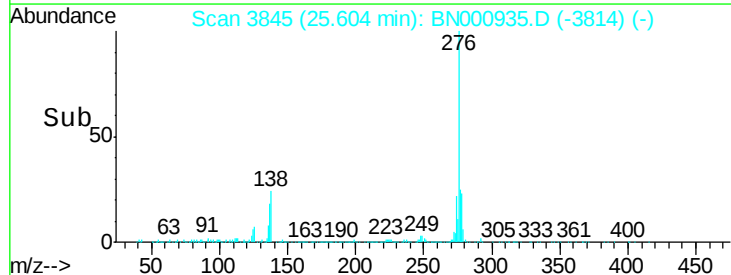
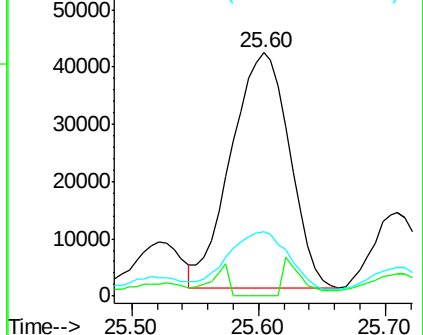


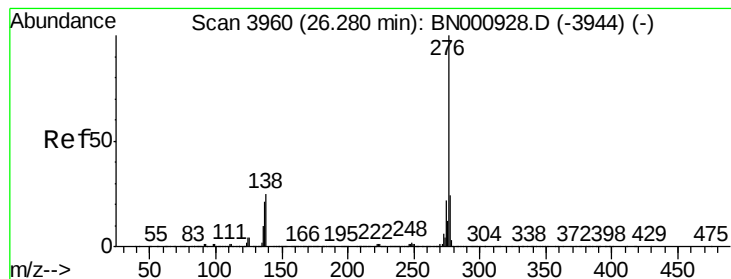
#28  
 Dibenzo(a,h)anthracene  
 Concen: 4.960 ng/ul  
 RT: 25.60 min Scan# 3845  
 Delta R.T. -0.02 min  
 Lab File: BN000935.D  
 Acq: 26 Apr 2018 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 12.2  | 18.4# |
| 279     | 26.7  | 19.2  | 28.8  |



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





#29

Benzo(a,h,i)perylene

Concen: 16.136 ng/ul

RT: 26.27 min Scan# 3958

Delta R.T. -0.01 min

Lab File: BN000935.D

Acq: 26 Apr 2018 16:54

Instrument :

BNA\_N

ClientSampleId :

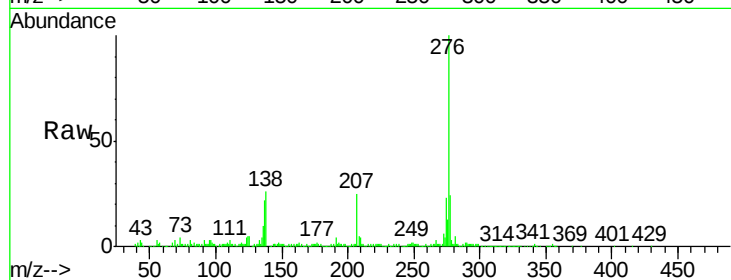
Tot Ion: 276 Resp: 432182

Ion Ratio Lower Upper

276 100

138 25.7 15.3 22.9#

277 24.1 19.0 28.4



Abundance Ion 276.00 (275.70 to 276.70): E

200000 Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

