

Data Path : Z:\HPCHEM1\BNA N\DATA\BN031518\  
 Data File : BN000410.D  
 Acq On : 15 Mar 2018 11:56  
 Operator : JU/SJ  
 Sample : J1866-02MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 16 05:43:42 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN030918MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 16 05:42:40 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.45  | 152  | 156966   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.29 | 136  | 783692   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.07 | 164  | 460820   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.79 | 188  | 1073256  | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.91 | 240  | 1036050  | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.39 | 264  | 941156   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |         |       |       |      |
|------------------------|-------|-----|---------|-------|-------|------|
| 7) Acenaphthylene-d8   | 14.77 | 160 | 1509900 | 33.01 | ng/ul | 0.00 |
| 10) Fluorene-d10       | 16.04 | 176 | 1023397 | 33.04 | ng/ul | 0.00 |
| 14) Anthracene-d10     | 17.88 | 188 | 1652414 | 32.95 | ng/ul | 0.00 |
| 18) Pyrene-d10         | 20.14 | 212 | 1845873 | 36.42 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.24 | 264 | 1456801 | 33.90 | ng/ul | 0.00 |

## Target Compounds

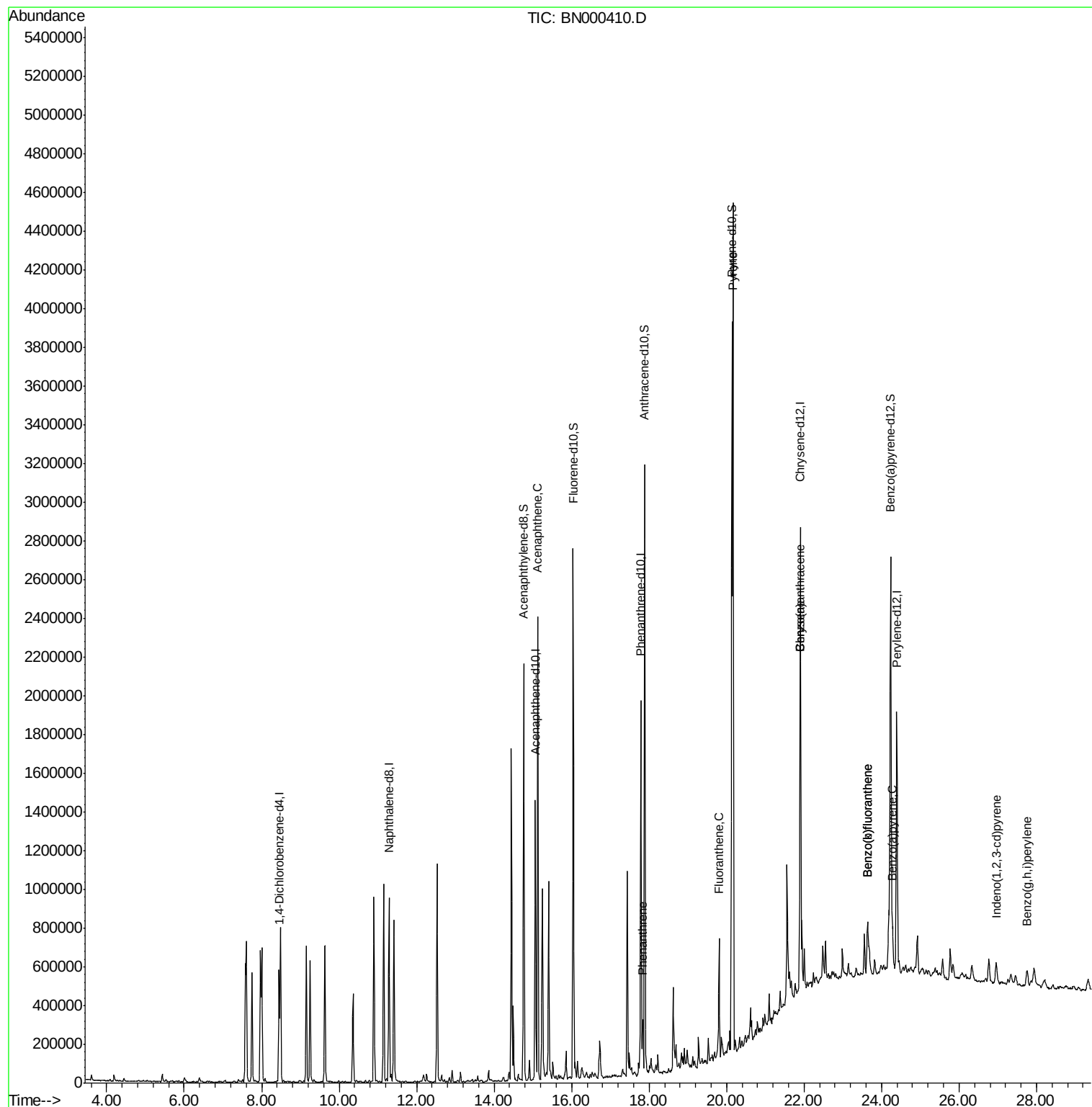
|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 9) Acenaphthene            | 15.12 | 153 | 933062  | 29.168 | ng/ul  | 95 |
| 13) Phenanthrene           | 17.83 | 178 | 153884  | 2.500  | ng/ul  | 99 |
| 16) Fluoranthene           | 19.81 | 202 | 347682  | 5.228  | ng/ul# | 94 |
| 19) Pyrene                 | 20.17 | 202 | 2486523 | 38.014 | ng/ul# | 90 |
| 20) Benzo(a)anthracene     | 21.89 | 228 | 182159  | 2.828  | ng/ul  | 98 |
| 21) Chrysene               | 21.89 | 228 | 174694  | 2.858  | ng/ul  | 95 |
| 23) Benzo(b)fluoranthene   | 23.64 | 252 | 229556  | 4.090  | ng/ul# | 93 |
| 24) Benzo(k)fluoranthene   | 23.64 | 252 | 229556  | 4.370  | ng/ul# | 93 |
| 26) Benzo(a)pyrene         | 24.28 | 252 | 145852  | 2.731  | ng/ul# | 89 |
| 27) Indeno(1,2,3-cd)pyrene | 26.97 | 276 | 94777   | 1.646  | ng/ul# | 84 |
| 29) Benzo(g,h,i)perylene   | 27.76 | 276 | 104946  | 2.182  | ng/ul# | 85 |

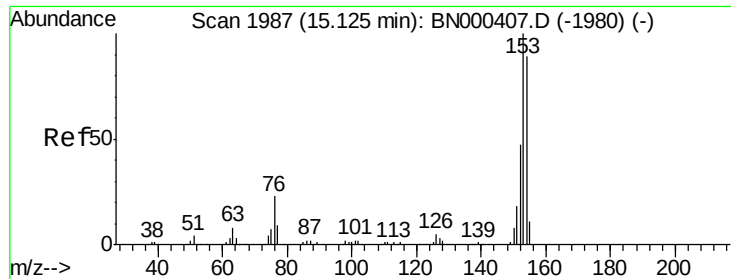
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 16 05:42:40 2018  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 29.168 ng/ul

RT: 15.12 min Scan# 1987

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

Instrument :

BNA\_N

ClientSampleId :

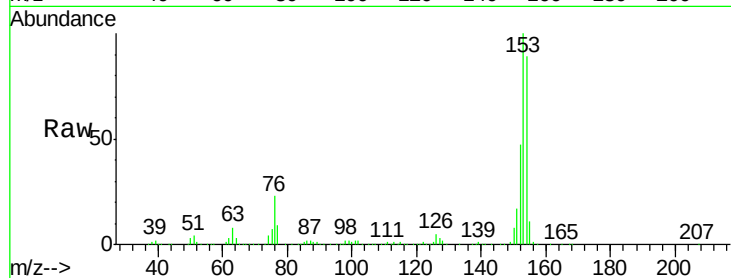
Tot Ion:153 Resp: 933062

Ion Ratio Lower Upper

153 100

152 47.4 39.0 58.6

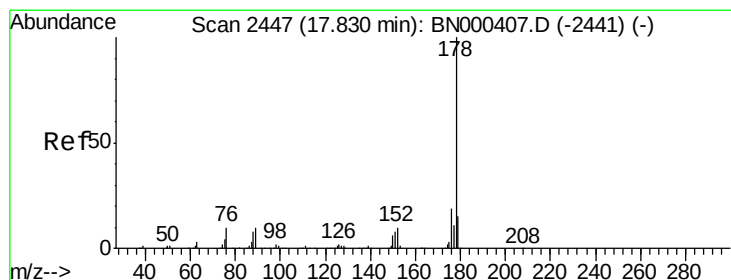
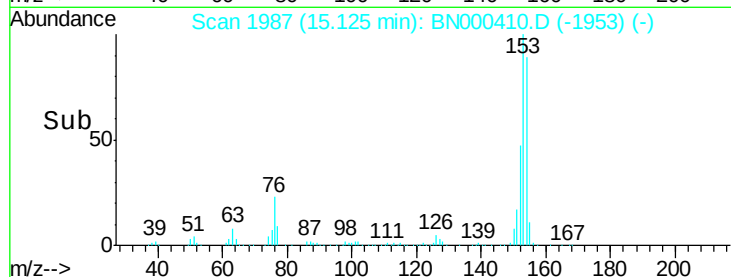
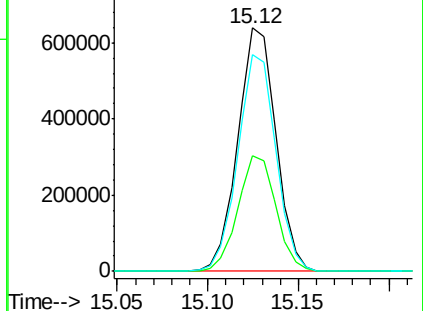
154 89.1 66.8 100.2



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: 2.500 ng/ul

RT: 17.83 min Scan# 2447

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

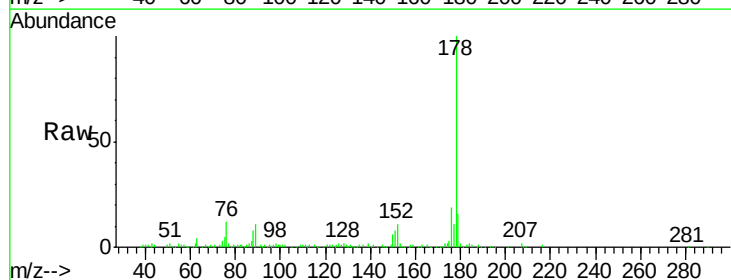
Tgt Ion:178 Resp: 153884

Ion Ratio Lower Upper

178 100

179 15.9 12.3 18.5

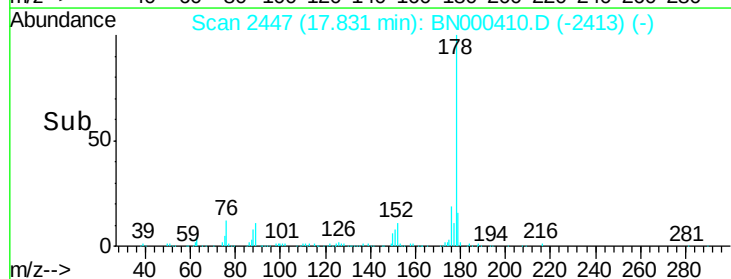
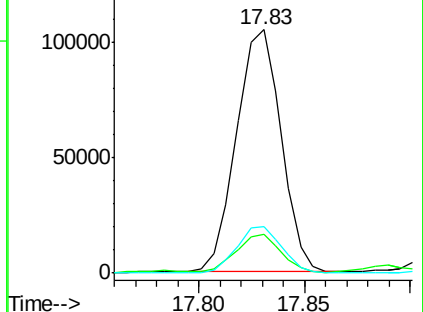
176 19.3 15.1 22.7

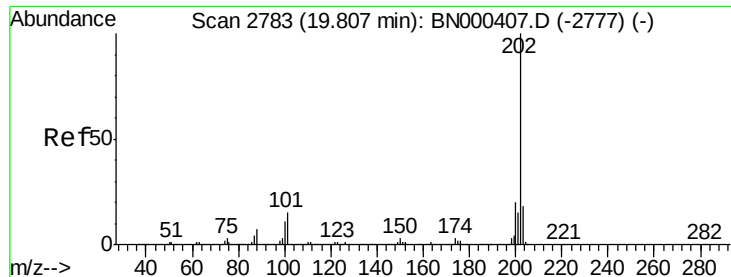


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

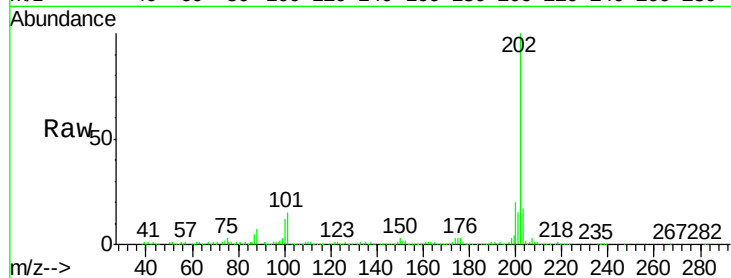




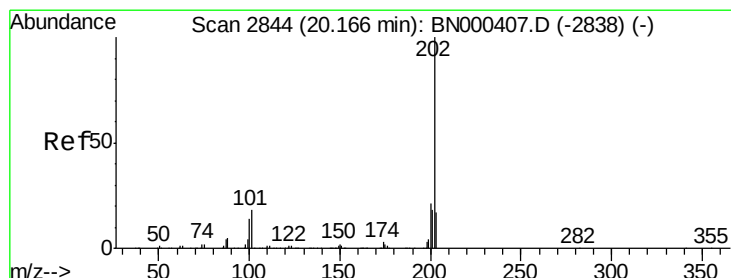
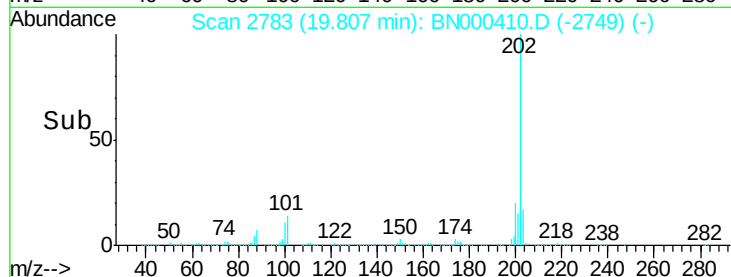
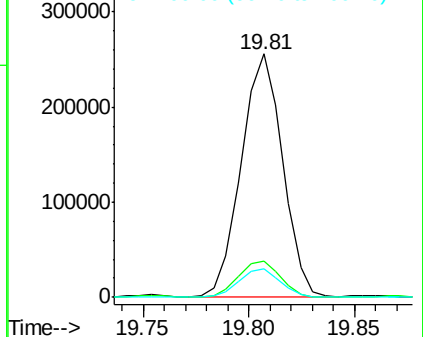
#16  
 Fluoranthene  
 Concen: 5.228 ng/ul  
 RT: 19.81 min Scan# 2783  
 Delta R.T. 0.00 min  
 Lab File: BN000410.D  
 Acq: 15 Mar 2018 11:56

Instrument :  
 BNA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.7  | 9.9   | 14.9  |
| 100     | 11.6  | 7.4   | 11.0  |

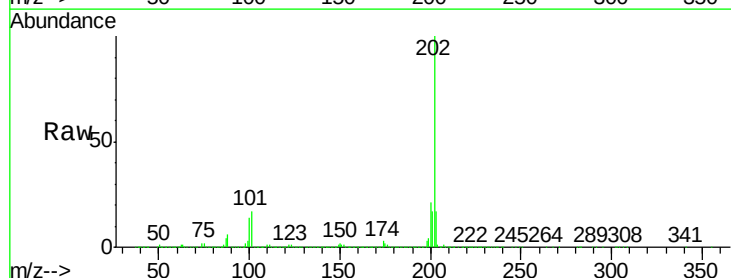


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

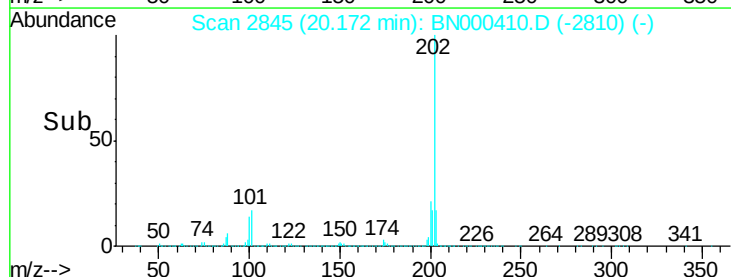
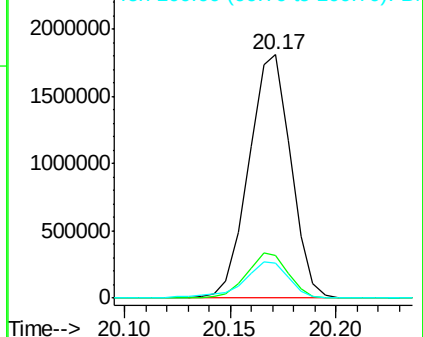


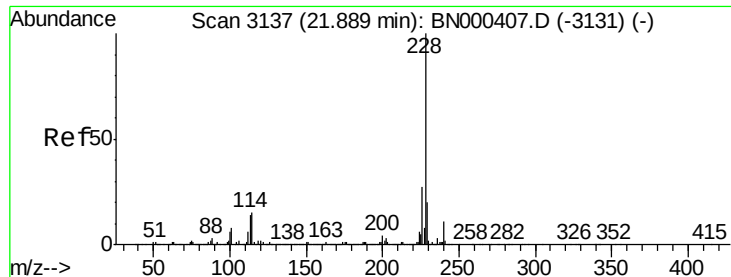
#19  
 Pyrene  
 Concen: 38.014 ng/ul  
 RT: 20.17 min Scan# 2845  
 Delta R.T. 0.01 min  
 Lab File: BN000410.D  
 Acq: 15 Mar 2018 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.4  | 11.0  | 16.4  |
| 100     | 14.4  | 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: 2.828 ng/ul

RT: 21.89 min Scan# 3137

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

Instrument :

BNA\_N

ClientSampleId :

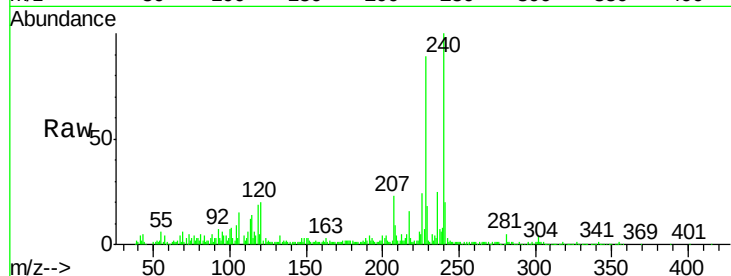
Tot Ion:228 Resp: 182159

Ion Ratio Lower Upper

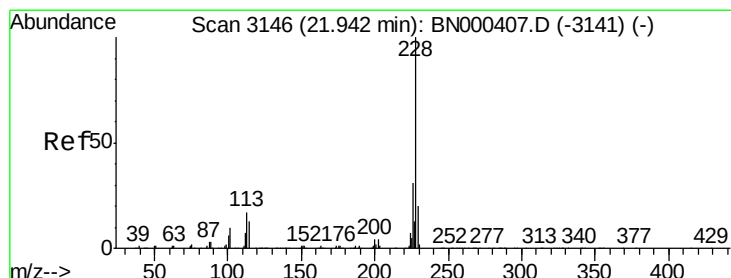
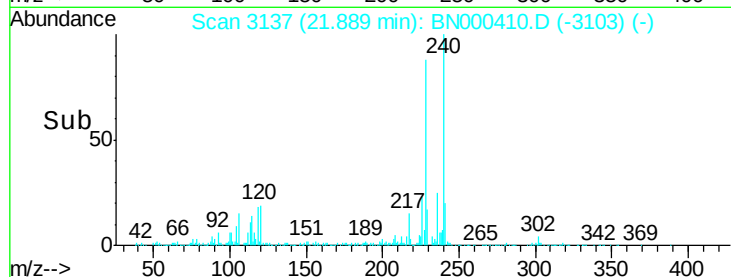
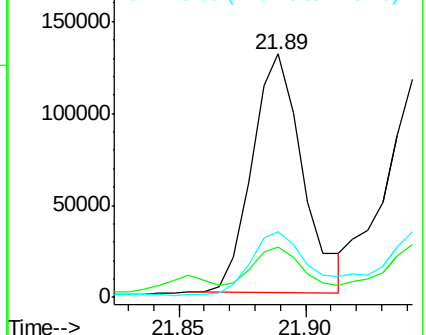
228 100

229 20.8 15.7 23.5

226 27.1 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: 2.858 ng/ul

RT: 21.89 min Scan# 3137

Delta R.T. -0.05 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

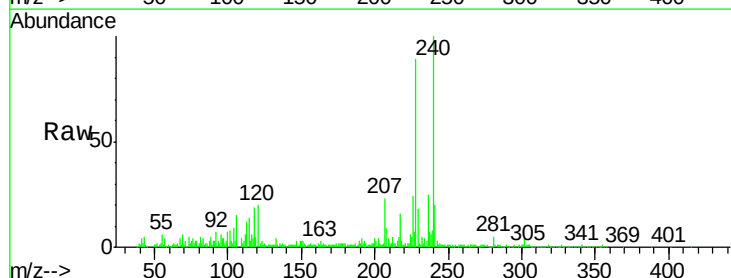
Tgt Ion:228 Resp: 174694

Ion Ratio Lower Upper

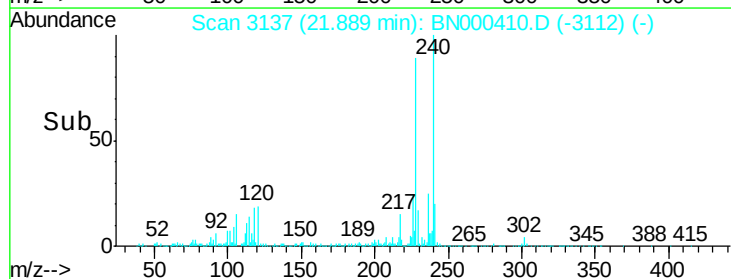
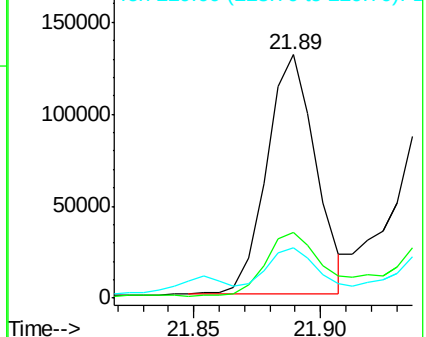
228 100

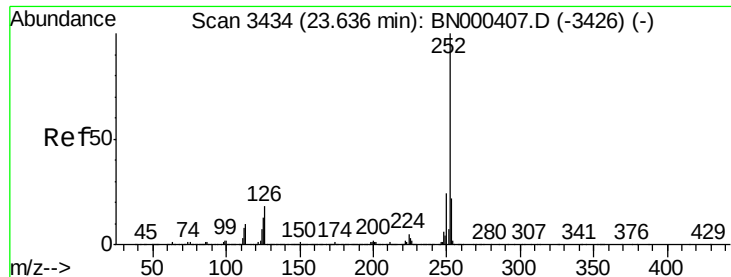
226 27.1 24.5 36.7

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: 4.090 ng/ul

RT: 23.64 min Scan# 3434

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

Instrument :

BNA\_N

ClientSampled :

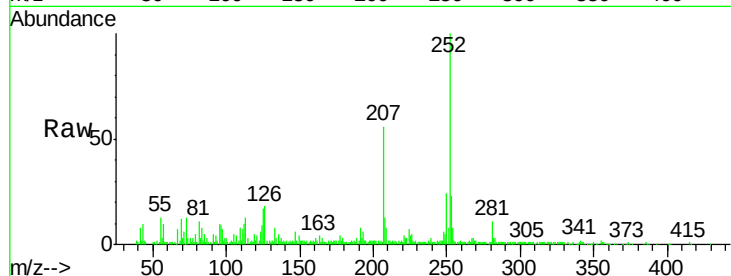
Tot Ion:252 Resp: 229556

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

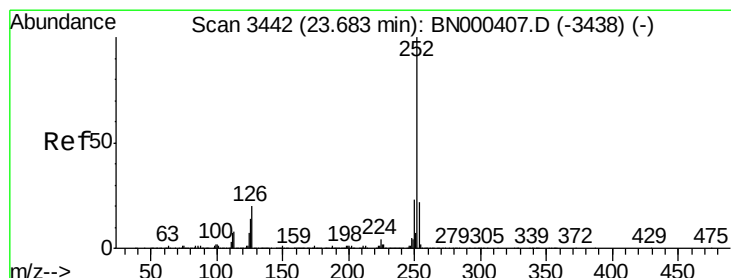
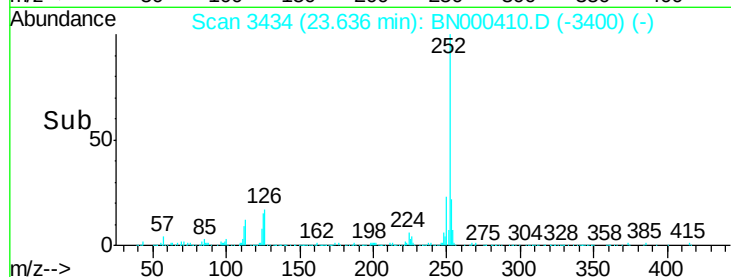
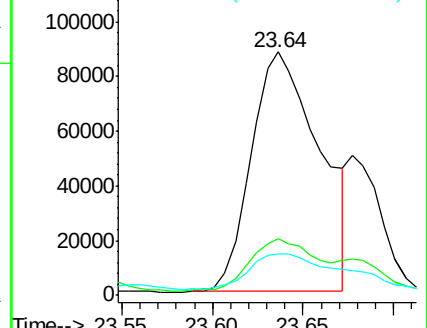
125 17.1 8.0 12.0#



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: 4.370 ng/ul

RT: 23.64 min Scan# 3434

Delta R.T. -0.05 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

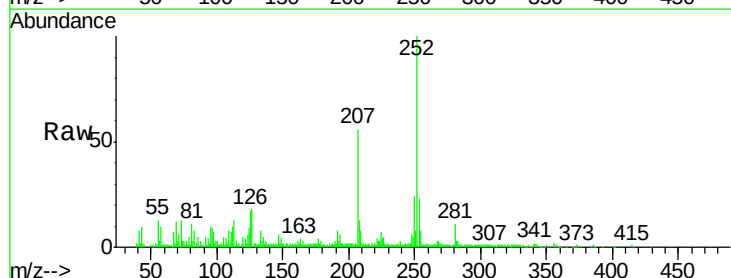
Tgt Ion:252 Resp: 229556

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

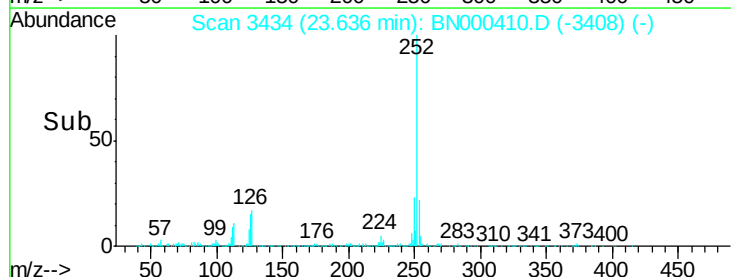
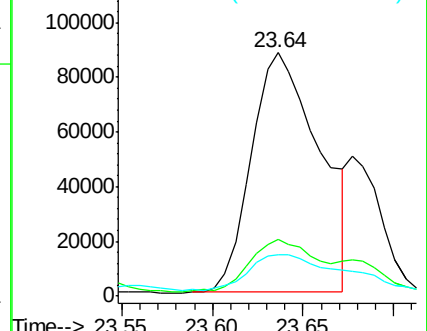
125 17.1 8.1 12.1#

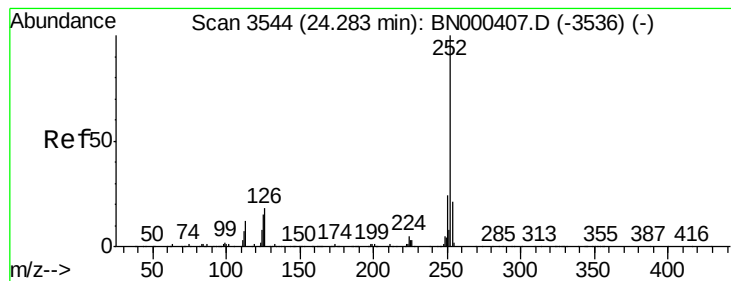


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 2.731 ng/ul

RT: 24.28 min Scan# 3544

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

Instrument :

BNA\_N

ClientSampled :

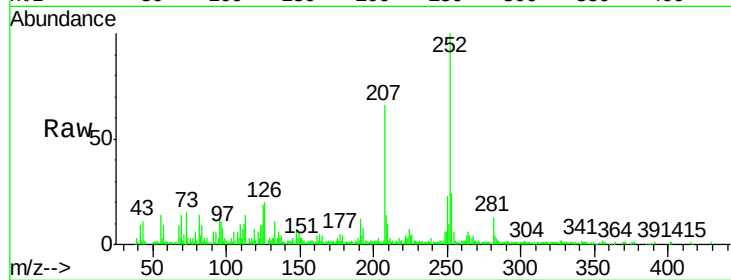
Tot Ion:252 Resp: 145852

Ion Ratio Lower Upper

252 100

253 23.9 17.2 25.8

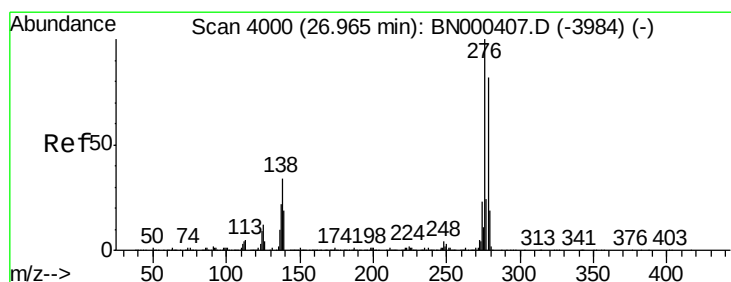
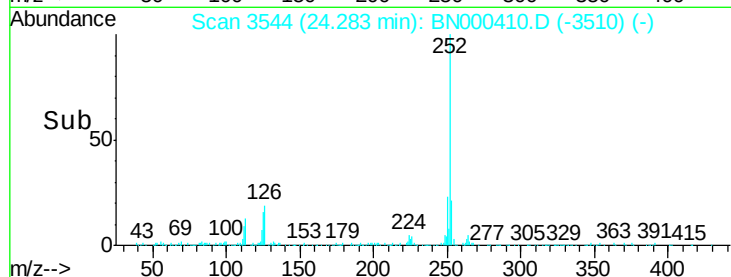
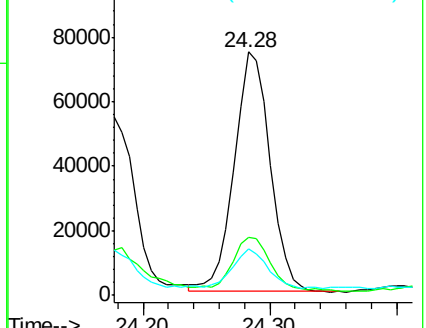
125 18.9 8.2 12.4#



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: 1.646 ng/ul

RT: 26.97 min Scan# 4000

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

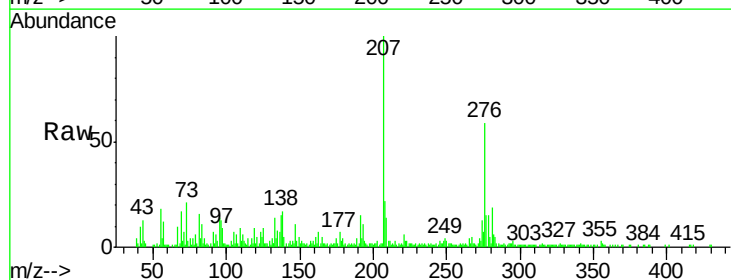
Tgt Ion:276 Resp: 94777

Ion Ratio Lower Upper

276 100

138 29.3 14.4 21.6#

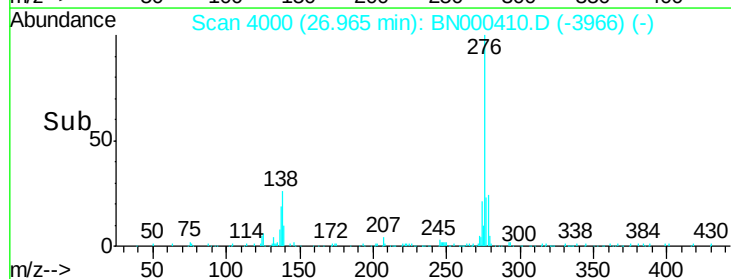
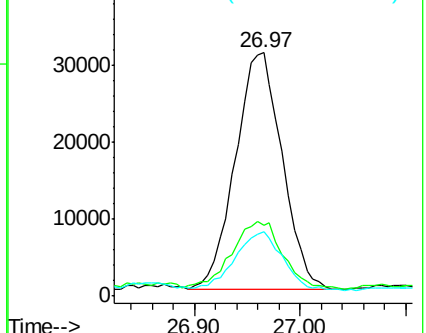
277 26.2 18.0 27.0

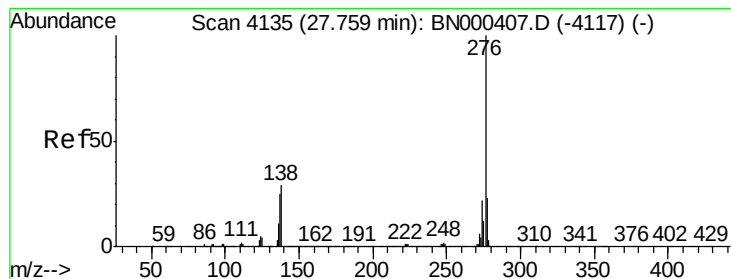


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#29

Benzo(a,h,i)perylene

Concen: 2.182 ng/ul

RT: 27.76 min Scan# 4135

Delta R.T. 0.00 min

Lab File: BN000410.D

Acq: 15 Mar 2018 11:56

Instrument :

BNA\_N

ClientSampleId :

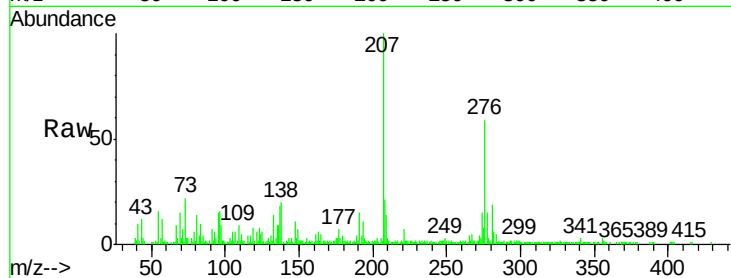
Tot Ion: 276 Resp: 104946

Ion Ratio Lower Upper

276 100

138 33.1 15.3 22.9#

277 24.6 19.0 28.4



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

