

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072116\  
 Data File : BM006599.D  
 Acq On : 21 Jul 2016 22:13  
 Operator : UM/SJ  
 Sample : H4078-14  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9YT8

Quant Time: Jul 22 01:57:28 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 22 01:56:00 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 172394   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.39 | 136  | 768391   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.26 | 164  | 447623   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.02 | 188  | 1012265  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.21 | 240  | 1183667  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.41 | 264  | 1242169  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.13  | 96  | 7665    | 1.80  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.79  | 99  | 257218  | 17.54 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 178914  | 19.69 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.15  | 132 | 214473  | 18.30 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.32  | 113 | 184381  | 16.21 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.76  | 128 | 108434  | 18.64 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.48  | 143 | 119281  | 19.28 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 209588  | 17.93 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.53 | 131 | 258686  | 20.10 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.67 | 166 | 674440  | 19.22 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.95 | 160 | 854180  | 19.07 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.49 | 143 | 86340   | 14.16 | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.26 | 176 | 610501  | 19.45 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 77747   | 14.80 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.11 | 188 | 935712  | 19.47 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.42 | 212 | 1096883 | 20.34 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.27 | 264 | 1150814 | 20.14 | ng/ul | 0.00 |

## Target Compounds

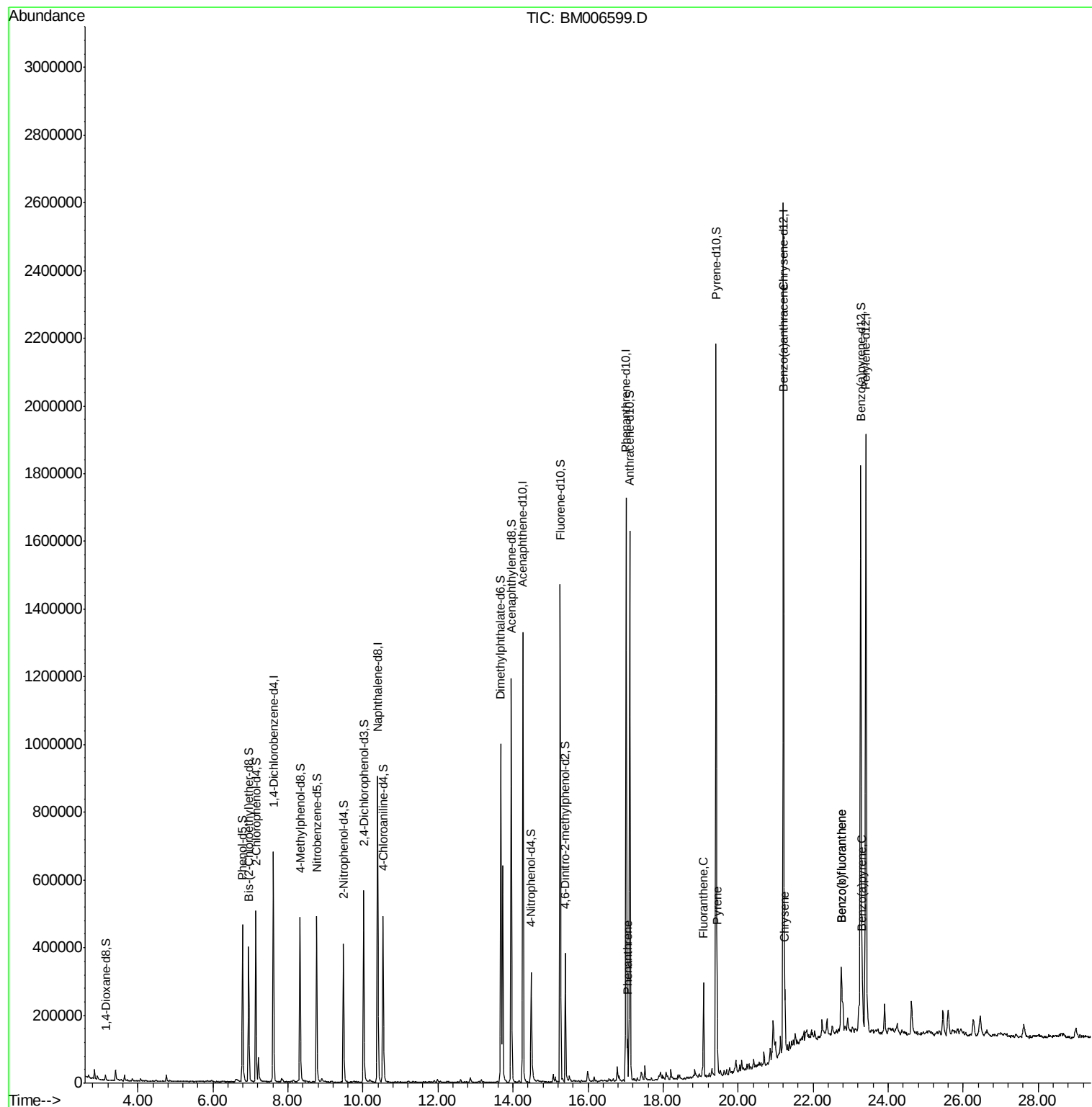
|                          |       |     |        |      |       | Qvalue |
|--------------------------|-------|-----|--------|------|-------|--------|
| 25) Phenanthrene         | 17.06 | 178 | 73276  | 1.29 | ng/ul | 99     |
| 28) Fluoranthene         | 19.08 | 202 | 169280 | 2.53 | ng/ul | 98     |
| 31) Pyrene               | 19.44 | 202 | 149009 | 2.08 | ng/ul | 97     |
| 32) Benzo(a)anthracene   | 21.20 | 228 | 97599  | 1.36 | ng/ul | 96     |
| 33) Chrysene             | 21.25 | 228 | 101790 | 1.54 | ng/ul | 98     |
| 35) Benzo(b)fluoranthene | 22.75 | 252 | 152741 | 2.05 | ng/ul | 98     |
| 36) Benzo(k)fluoranthene | 22.75 | 252 | 152741 | 2.12 | ng/ul | 97     |
| 38) Benzo(a)pyrene       | 23.32 | 252 | 94776  | 1.31 | ng/ul | 97     |

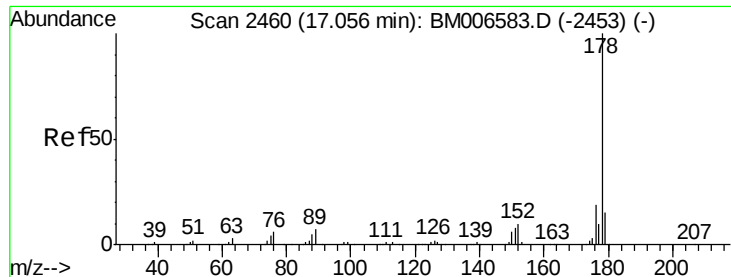
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#25

Phenanthrene

Concen: 1.29 ng/ul

RT: 17.06 min Scan# 2460

Delta R.T. 0.00 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

Instrument :

BNA\_M

ClientSampleId :

D9YT8

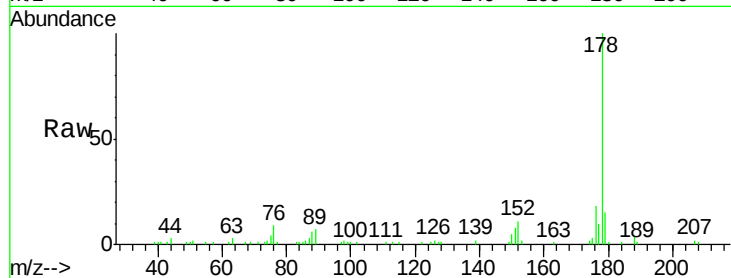
Tgt Ion:178 Resp: 73276

Ion Ratio Lower Upper

178 100

179 14.8 11.8 17.8

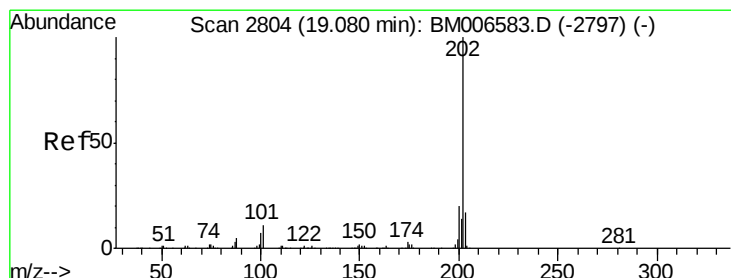
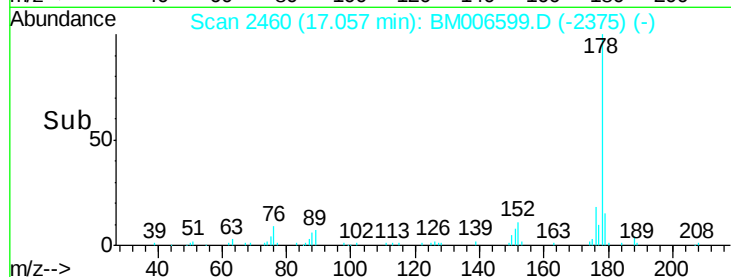
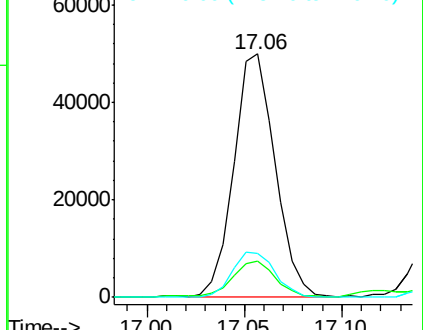
176 18.1 14.8 22.2



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



#28

Fluoranthene

Concen: 2.53 ng/ul

RT: 19.08 min Scan# 2804

Delta R.T. 0.00 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

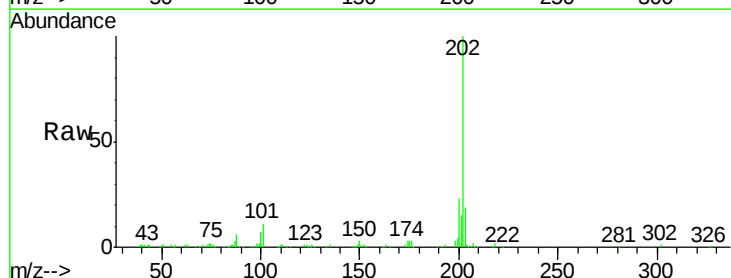
Tgt Ion:202 Resp: 169280

Ion Ratio Lower Upper

202 100

101 10.9 8.9 13.3

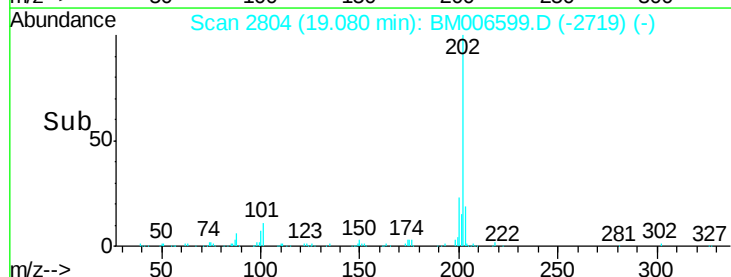
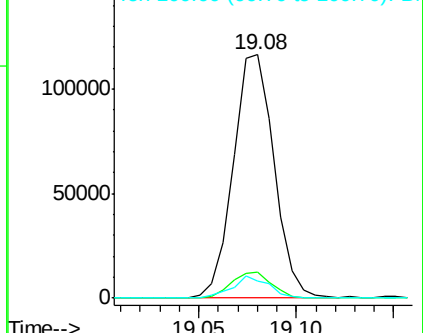
100 7.0 7.0 10.4

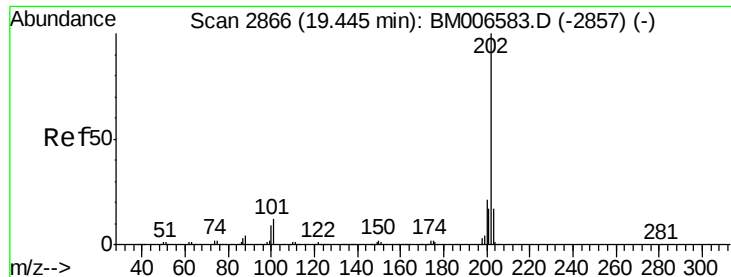


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

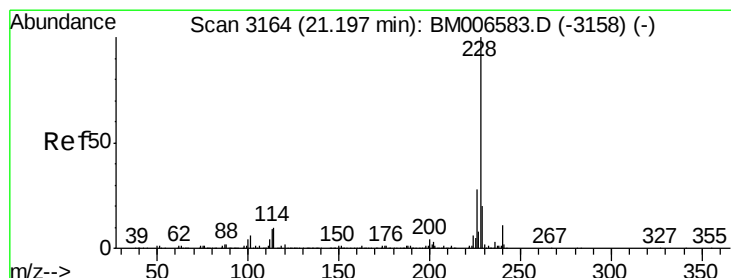
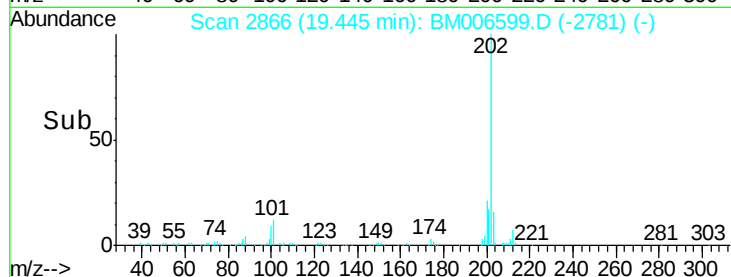
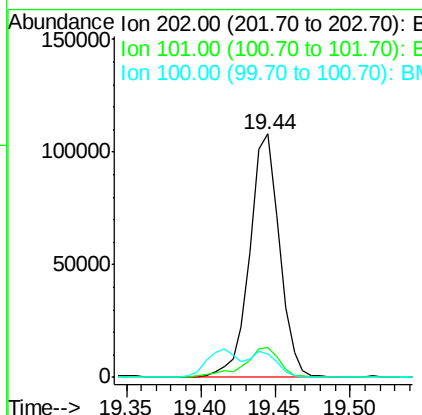
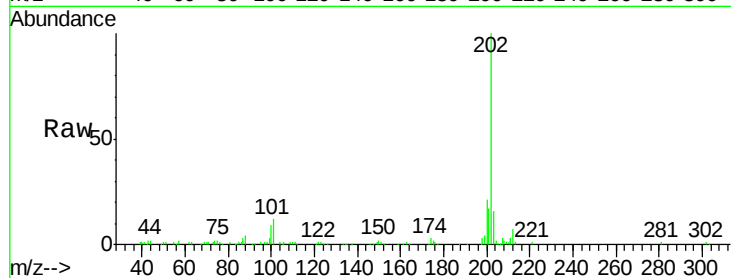




#31  
 Pyrene  
 Concen: 2.08 ng/ul  
 RT: 19.44 min Scan# 2866  
 Delta R.T. 0.00 min  
 Lab File: BM006599.D  
 Acq: 21 Jul 2016 22:13

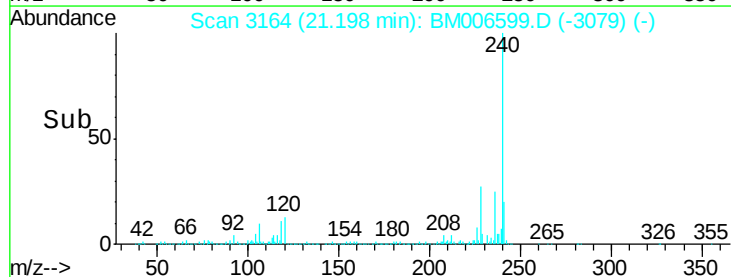
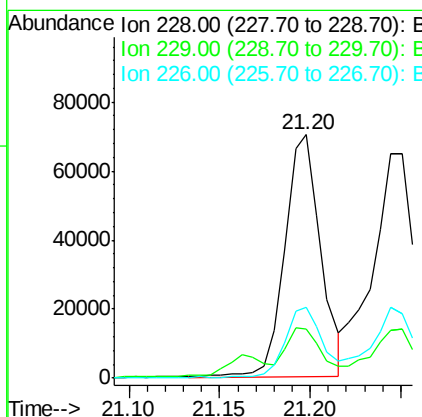
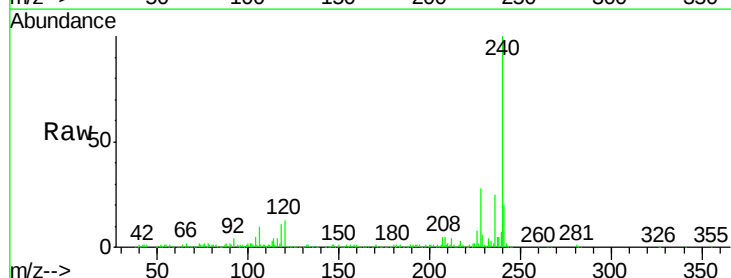
Instrument :  
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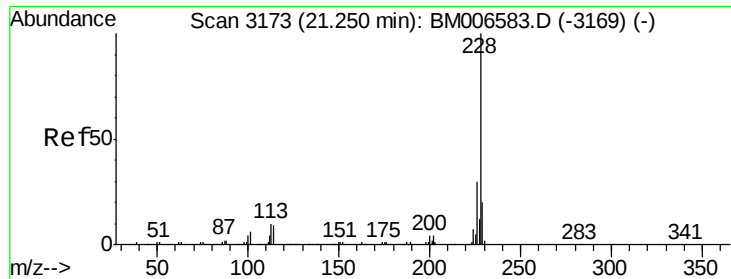
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 149009 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.4  | 9.8   | 14.8   |
| 100      | 9.4   | 9.3   | 13.9   |



#32  
 Benzo(a)anthracene  
 Concen: 1.36 ng/ul  
 RT: 21.20 min Scan# 3164  
 Delta R.T. 0.00 min  
 Lab File: BM006599.D  
 Acq: 21 Jul 2016 22:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 97599 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 229      | 20.3  | 16.6  | 25.0  |
| 226      | 29.1  | 21.0  | 31.4  |





#33

Chrysene

Concen: 1.54 ng/ul

RT: 21.25 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

Instrument :

BNA\_M

ClientSampleId :

D9YT8

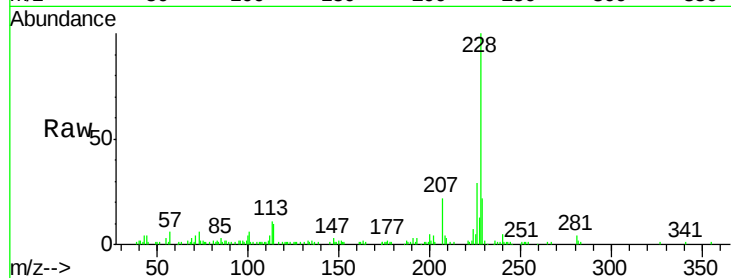
Tgt Ion:228 Resp: 101790

Ion Ratio Lower Upper

228 100

226 28.7 23.4 35.2

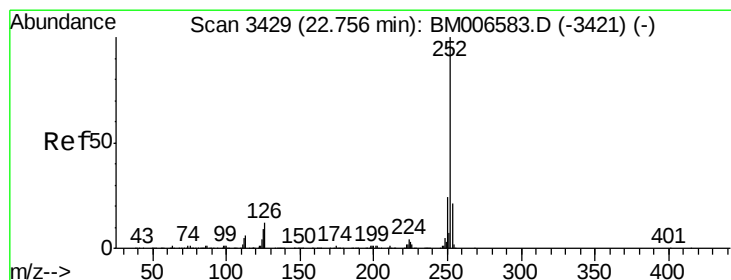
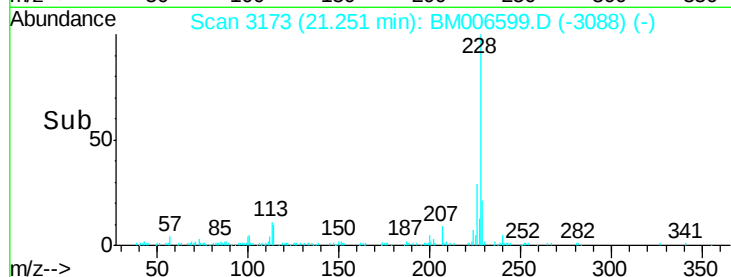
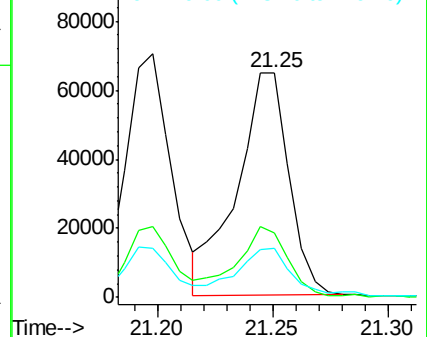
229 22.0 16.2 24.2



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



#35

Benzo(b)fluoranthene

Concen: 2.05 ng/ul

RT: 22.75 min Scan# 3428

Delta R.T. -0.01 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

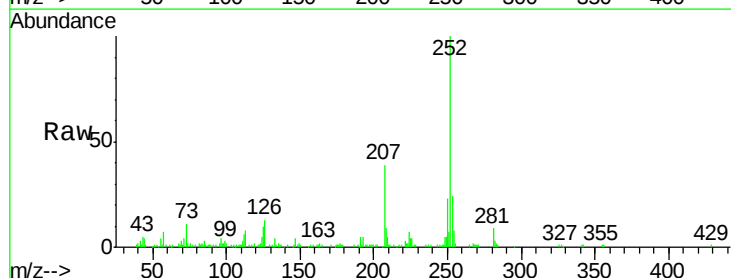
Tgt Ion:252 Resp: 152741

Ion Ratio Lower Upper

252 100

253 24.1 18.1 27.1

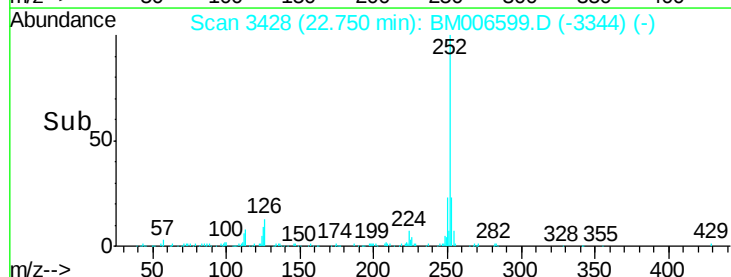
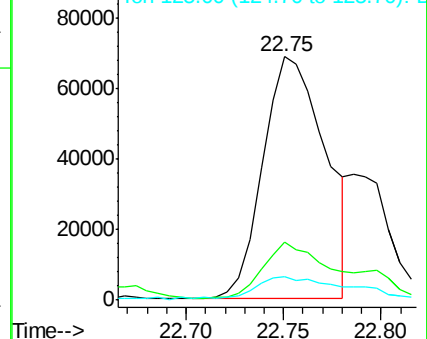
125 9.8 7.6 11.4

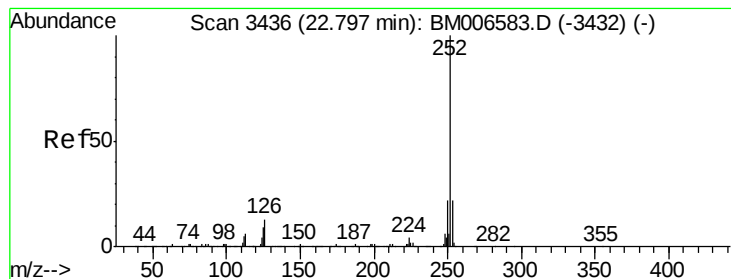


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Benzo(k)fluoranthene

Concen: 2.12 ng/ul

RT: 22.75 min Scan# 3428

Delta R.T. -0.05 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

Instrument :

BNA\_M

ClientSampleId :

D9YT8

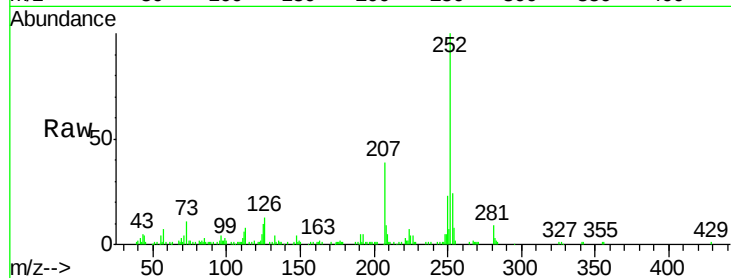
Tgt Ion:252 Resp: 152741

Ion Ratio Lower Upper

252 100

253 24.1 17.8 26.8

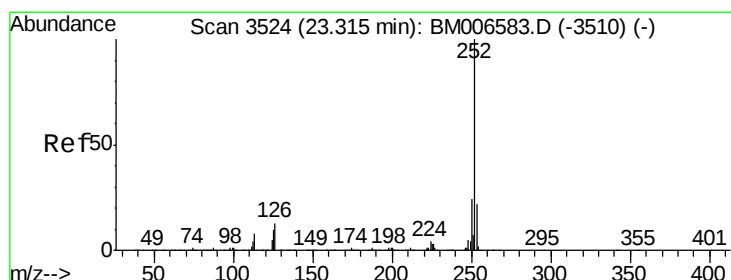
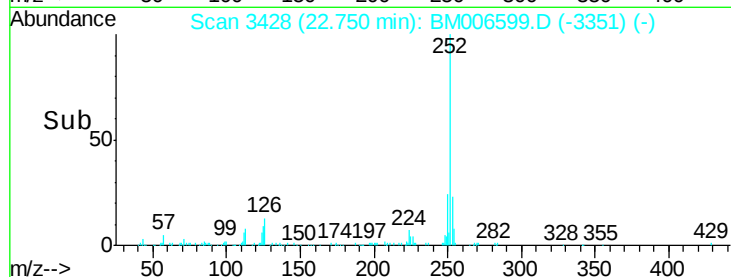
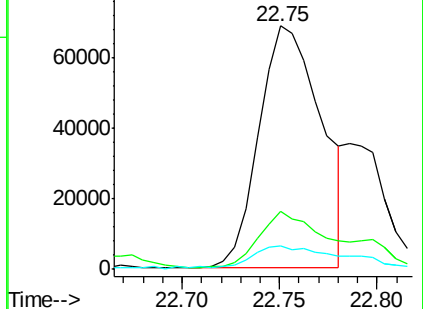
125 9.8 7.7 11.5



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



#38

Benzo(a)pyrene

Concen: 1.31 ng/ul

RT: 23.32 min Scan# 3524

Delta R.T. 0.00 min

Lab File: BM006599.D

Acq: 21 Jul 2016 22:13

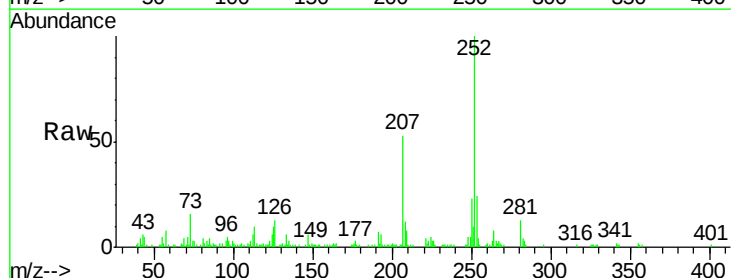
Tgt Ion:252 Resp: 94776

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 10.1 8.2 12.2



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

