

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102419\  
 Data File : BM023394.D  
 Acq On : 25 Oct 2019 04:13  
 Operator : JU  
 Sample : K5403-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFB93

Quant Time: Oct 25 12:04:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 23 18:47:16 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 599504   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.42 | 136  | 2382388  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.29 | 164  | 1433964  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.03 | 188  | 2309374  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.23 | 240  | 1800686  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.43 | 264  | 2270538  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |      |     |    |      |       |  |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8              | 0.00 | 96  | 0d | 0.00 | ng/uL |  |
| 5) Phenol-d5                   | 0.00 | 99  | 0  | 0.00 | ng/ul |  |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00 | 67  | 0d | 0.00 | ng/ul |  |
| 9) 2-Chlorophenol-d4           | 0.00 | 132 | 0  | 0.00 | ng/ul |  |
| 13) 4-Methylphenol-d8          | 0.00 | 113 | 0d | 0.00 | ng/ul |  |
| 19) Nitrobenzene-d5            | 0.00 | 128 | 0d | 0.00 | ng/ul |  |
| 22) 2-Nitrophenol-d4           | 0.00 | 143 | 0  | 0.00 | ng/ul |  |
| 26) 2,4-Dichlorophenol-d3      | 0.00 | 165 | 0d | 0.00 | ng/ul |  |
| 29) 4-Chloroaniline-d4         | 0.00 | 131 | 0d | 0.00 | ng/ul |  |
| 44) Dimethylphthalate-d6       | 0.00 | 166 | 0  | 0.00 | ng/ul |  |
| 47) Acenaphthylene-d8          | 0.00 | 160 | 0  | 0.00 | ng/ul |  |
| 52) 4-Nitrophenol-d4           | 0.00 | 143 | 0d | 0.00 | ng/ul |  |
| 58) Fluorene-d10               | 0.00 | 176 | 0d | 0.00 | ng/ul |  |
| 63) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0d | 0.00 | ng/ul |  |
| 71) Anthracene-d10             | 0.00 | 188 | 0d | 0.00 | ng/ul |  |
| 79) Pyrene-d10                 | 0.00 | 212 | 0d | 0.00 | ng/ul |  |
| 90) Benzo(a)pyrene-d12         | 0.00 | 264 | 0d | 0.00 | ng/ul |  |

## Target Compounds

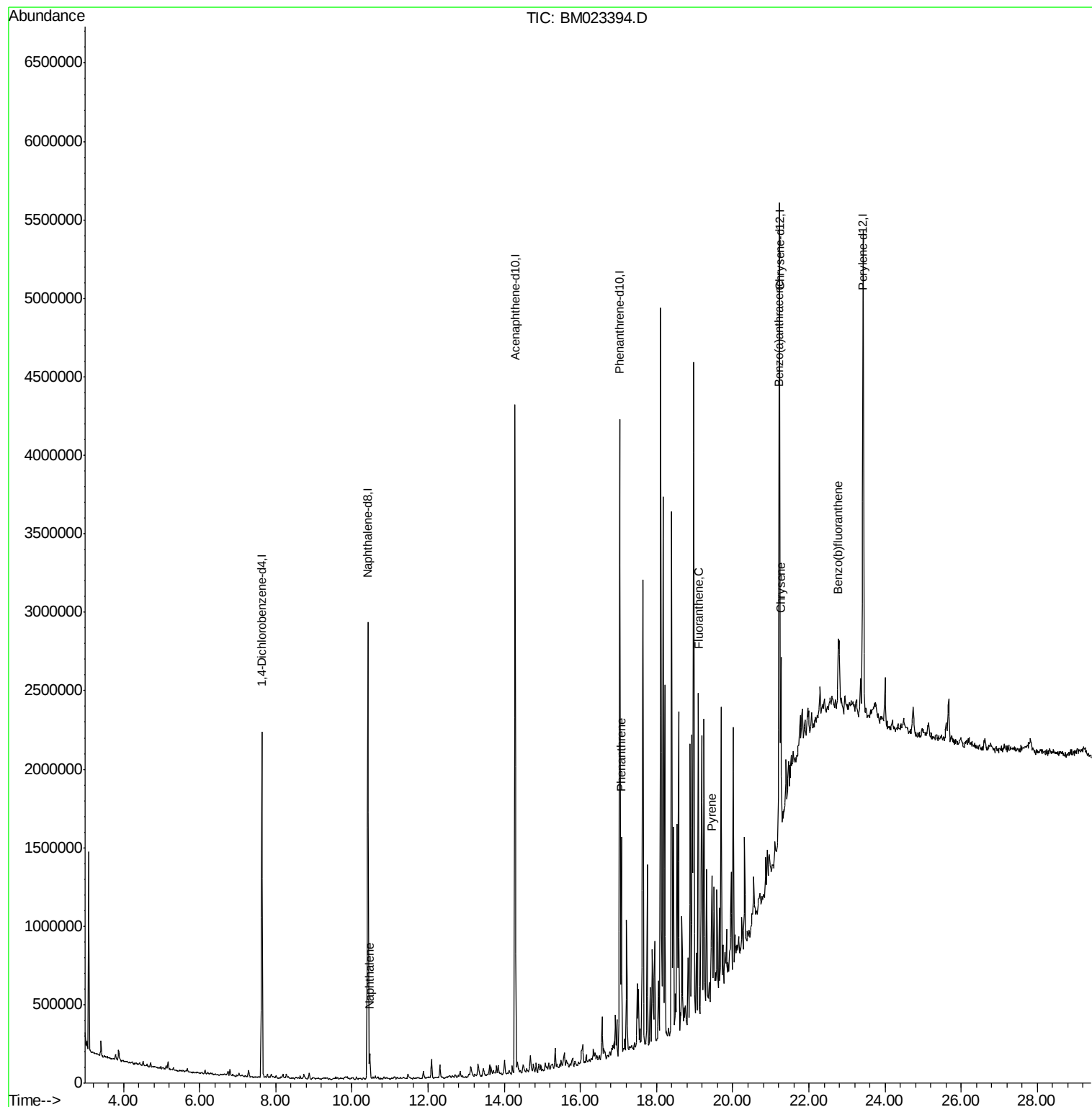
|                          |       |     |         |       | Ovalue |     |
|--------------------------|-------|-----|---------|-------|--------|-----|
| 28) Naphthalene          | 10.47 | 128 | 122289  | 1.001 | ng/ul  | 100 |
| 70) Phenanthrene         | 17.07 | 178 | 758254  | 5.875 | ng/ul  | 98  |
| 77) Fluoranthene         | 19.10 | 202 | 1170505 | 8.695 | ng/ul  | 99  |
| 80) Pyrene               | 19.46 | 202 | 479297  | 3.769 | ng/ul  | 98  |
| 83) Benzo(a)anthracene   | 21.21 | 228 | 380968  | 3.163 | ng/ul  | 97  |
| 85) Chrysene             | 21.26 | 228 | 636840  | 5.731 | ng/ul  | 99  |
| 88) Benzo(b)fluoranthene | 22.77 | 252 | 343832  | 2.358 | ng/ul# | 93  |

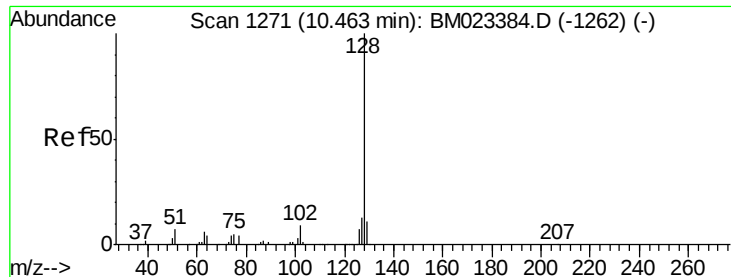
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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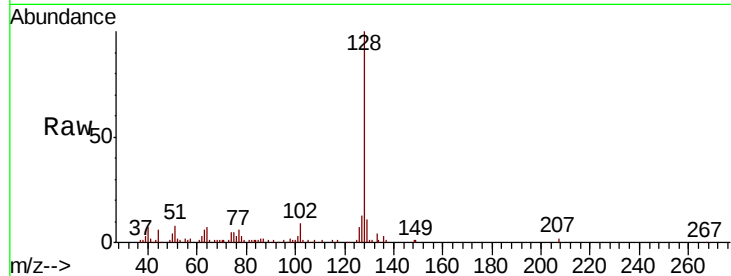




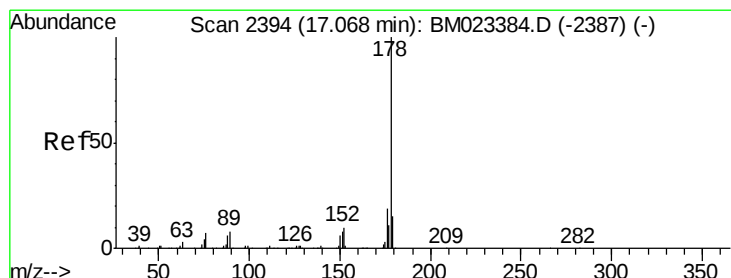
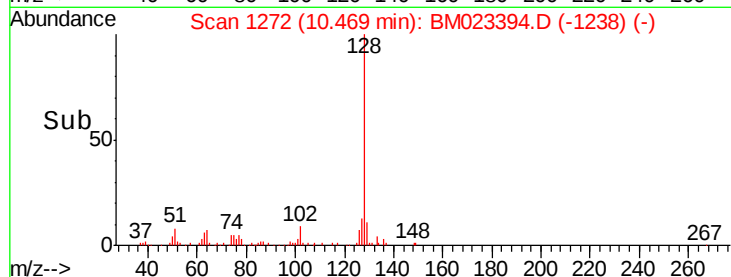
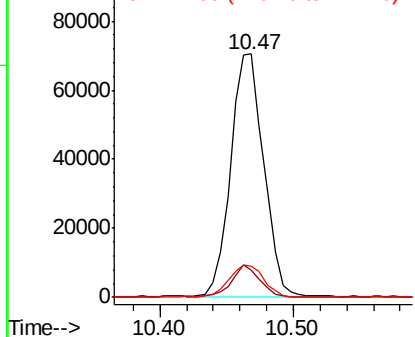
#28  
Naphthalene  
Concen: 1.001 ng/ul  
RT: 10.47 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: BM023394.D  
Acq: 25 Oct 2019 04:13

Instrument :  
BNA\_M  
ClientSampleId :  
BFB93

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 8.8   | 13.2  |
| 127     | 13.0  | 10.4  | 15.6  |

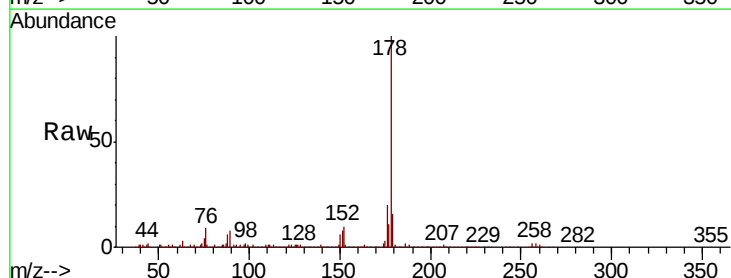


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

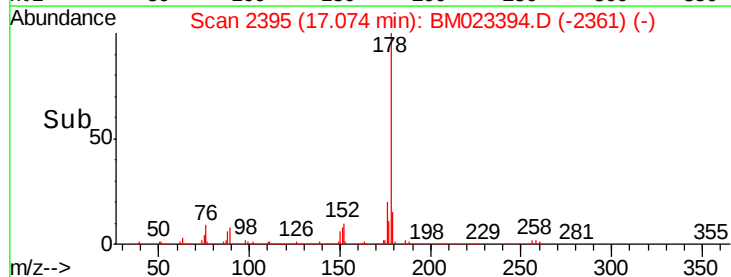
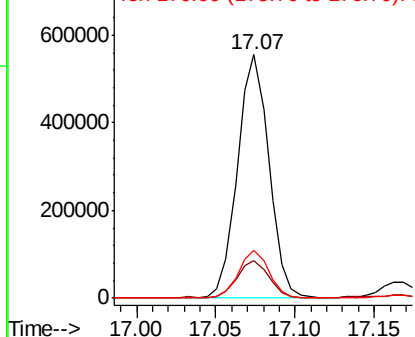


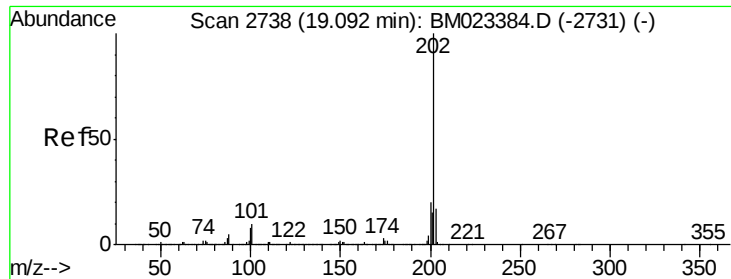
#70  
Phenanthrene  
Concen: 5.875 ng/ul  
RT: 17.07 min Scan# 2395  
Delta R.T. -0.00 min  
Lab File: BM023394.D  
Acq: 25 Oct 2019 04:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.2  | 18.2  |
| 176     | 19.7  | 14.9  | 22.3  |



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

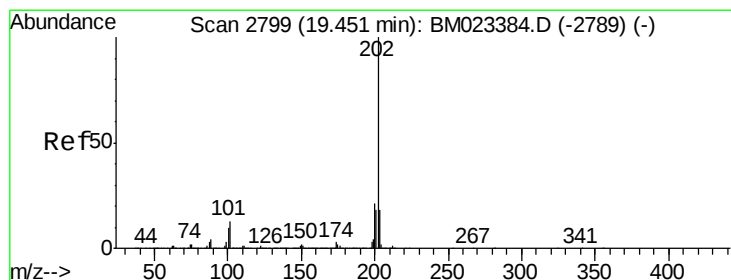
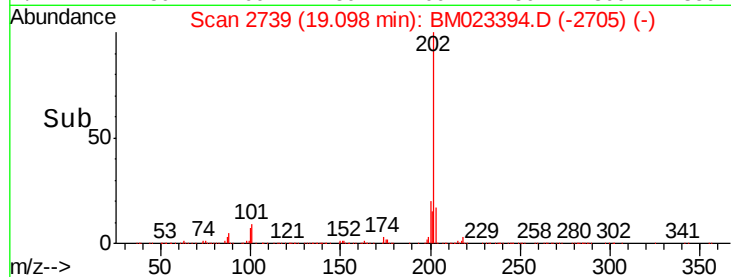
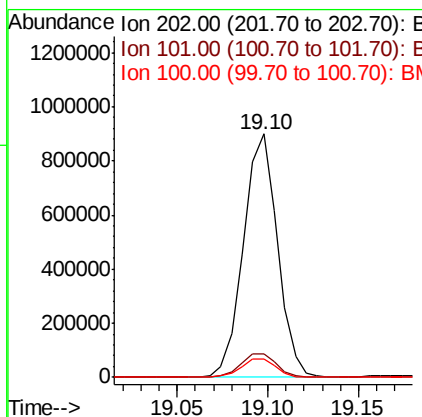
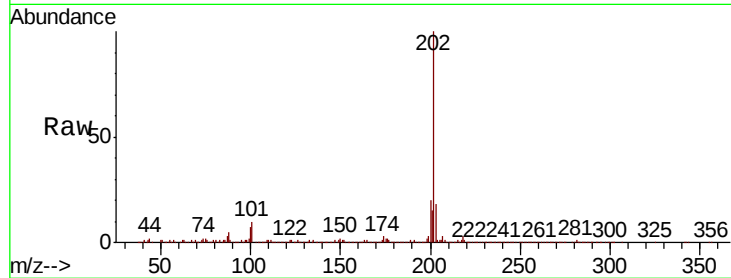




#77  
**Fluoranthene**  
 Concen: 8.695 ng/ul  
 RT: 19.10 min Scan# 2739  
 Delta R.T. -0.00 min  
 Lab File: BM023394.D  
 Acq: 25 Oct 2019 04:13

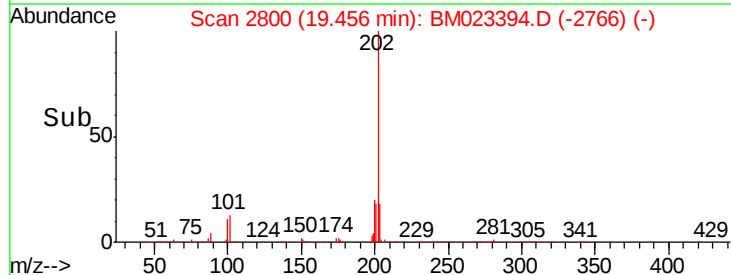
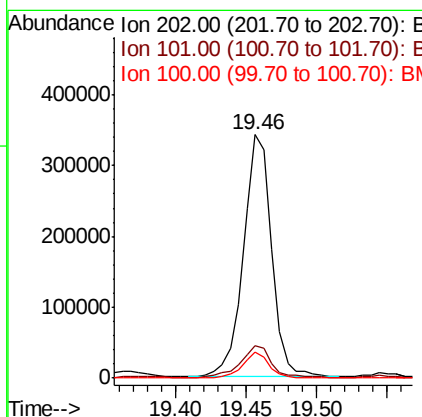
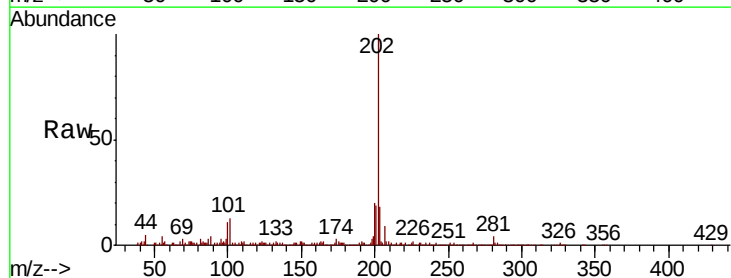
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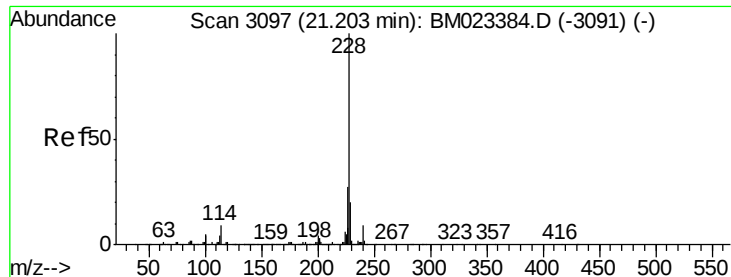
Tot Ion:202 Resp: 1170505  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 8.1 12.1  
 100 7.3 6.2 9.2



#80  
**Pyrene**  
 Concen: 3.769 ng/ul  
 RT: 19.46 min Scan# 2800  
 Delta R.T. -0.00 min  
 Lab File: BM023394.D  
 Acq: 25 Oct 2019 04:13

Tgt Ion:202 Resp: 479297  
 Ion Ratio Lower Upper  
 202 100  
 101 13.3 10.0 15.0  
 100 10.8 8.3 12.5





#83

Benzo(a)anthracene

Concen: 3.163 ng/ul

RT: 21.21 min Scan# 3098

Delta R.T. -0.00 min

Lab File: BM023394.D

Acq: 25 Oct 2019 04:13

Instrument :

BNA\_M

ClientSampleId :

BFB93

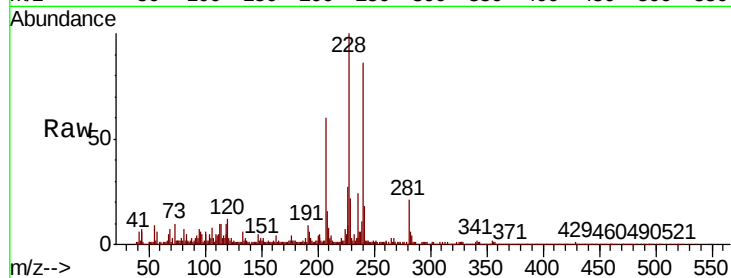
Tot Ion:228 Resp: 380968

Ion Ratio Lower Upper

228 100

229 22.1 15.8 23.8

226 27.4 21.6 32.4

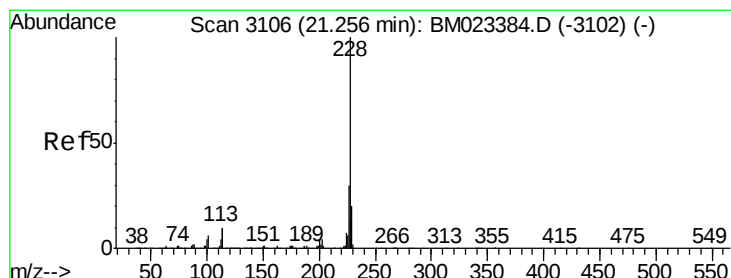
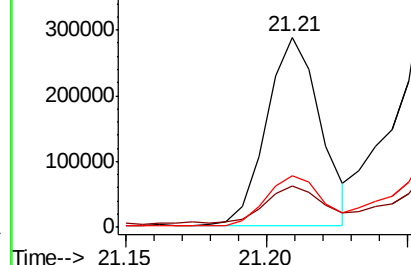
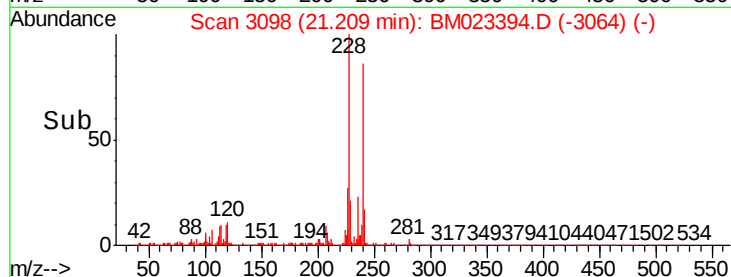


Abundance

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



#85

Chrysene

Concen: 5.731 ng/ul

RT: 21.26 min Scan# 3107

Delta R.T. -0.00 min

Lab File: BM023394.D

Acq: 25 Oct 2019 04:13

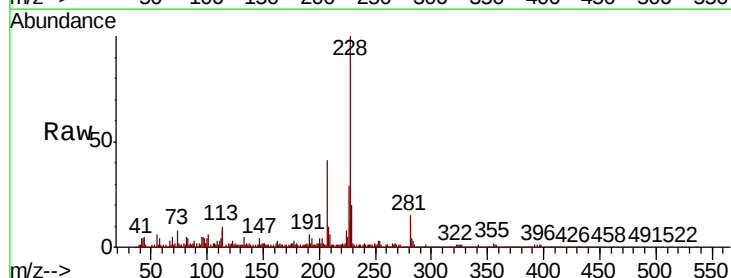
Tgt Ion:228 Resp: 636840

Ion Ratio Lower Upper

228 100

226 29.1 24.0 36.0

229 20.0 16.0 24.0

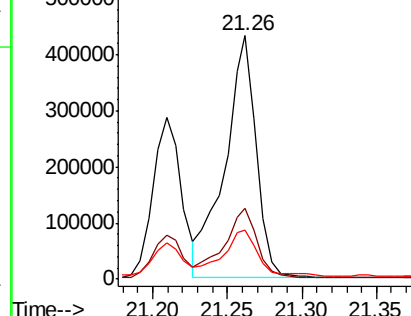
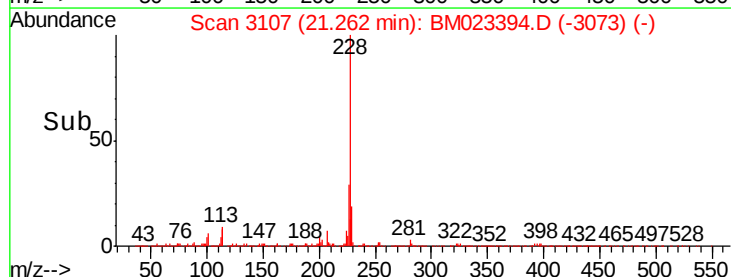


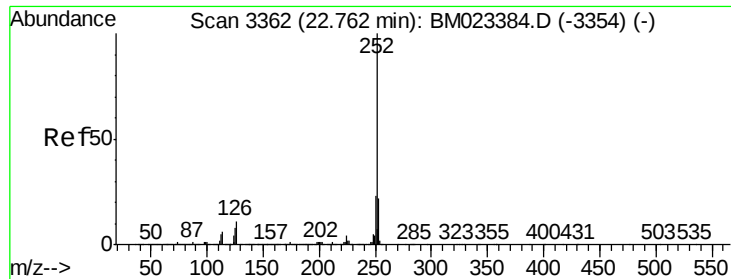
Abundance

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





#88

Benzo(b)fluoranthene

Concen: 2.358 ng/ul

RT: 22.77 min Scan# 3363

Delta R.T. -0.00 min

Lab File: BM023394.D

Acq: 25 Oct 2019 04:13

Instrument :

BNA\_M

ClientSampleId :

BFB93

Tot Ion:252 Resp: 343832

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

125 14.2 7.1 10.7#

