

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM060719\  
 Data File : BM020807.D  
 Acq On : 07 Jun 2019 17:03  
 Operator : HP/JU  
 Sample : K3201-08DL 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB9DL

Quant Time: Jun 08 00:25:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jun 08 00:20:16 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 333849   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.60 | 136  | 1345971  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.45 | 164  | 744505   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 1589340  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.38 | 240  | 1375595  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.67 | 264  | 1607114  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.31  | 96  | 20662   | 2.95  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 346948  | 13.58 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 238243  | 15.56 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.35  | 132 | 330801  | 16.26 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.51  | 113 | 282751  | 13.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.97  | 128 | 162194  | 17.66 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 176562  | 18.67 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 321295  | 16.29 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 260154  | 10.95 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.86 | 166 | 1015549 | 18.44 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.14 | 160 | 1114269 | 15.96 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.64 | 143 | 103330  | 10.93 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.44 | 176 | 783832  | 16.75 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.56 | 200 | 49914   | 6.14  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 1199000 | 17.27 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.59 | 212 | 1311592 | 19.73 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.52 | 264 | 1583795 | 21.68 | ng/ul | 0.00 |

## Target Compounds

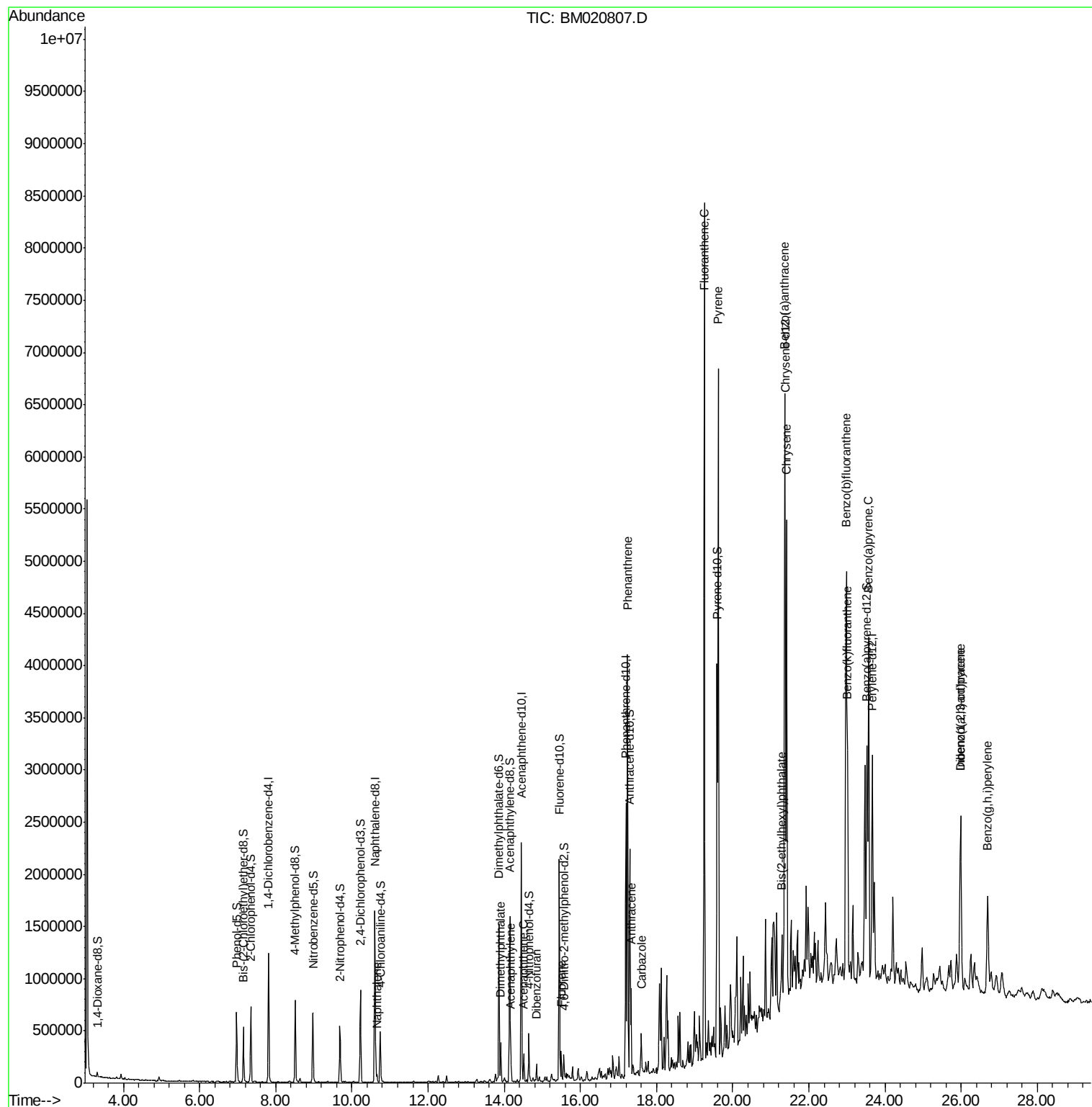
|                                |       |     |         |        | Qvalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 28) Naphthalene                | 10.65 | 128 | 64009   | 1.013  | ng/ul  | 98  |
| 44) Dimethylphthalate          | 13.91 | 163 | 241798  | 4.385  | ng/ul  | 99  |
| 47) Acenaphthylene             | 14.17 | 152 | 156556  | 2.317  | ng/ul  | 99  |
| 49) Acenaphthene               | 14.52 | 153 | 111457  | 2.363  | ng/ul  | 99  |
| 53) Dibenzofuran               | 14.85 | 168 | 81320   | 1.219  | ng/ul  | 99  |
| 58) Fluorene                   | 15.50 | 166 | 112900  | 2.108  | ng/ul  | 96  |
| 69) Phenanthrene               | 17.24 | 178 | 2315513 | 28.948 | ng/ul  | 99  |
| 71) Anthracene                 | 17.33 | 178 | 510355  | 6.225  | ng/ul  | 99  |
| 74) Carbazole                  | 17.60 | 167 | 227169  | 3.186  | ng/ul  | 99  |
| 76) Fluoranthene               | 19.26 | 202 | 4730055 | 51.602 | ng/ul  | 99  |
| 79) Pyrene                     | 19.62 | 202 | 4092120 | 48.192 | ng/ul  | 97  |
| 82) Benzo(a)anthracene         | 21.36 | 228 | 2600230 | 30.302 | ng/ul  | 98  |
| 83) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 208225  | 3.568  | ng/ul  | 100 |
| 84) Chrysene                   | 21.42 | 228 | 2386751 | 29.975 | ng/ul  | 98  |
| 87) Benzo(b)fluoranthene       | 22.98 | 252 | 3481069 | 37.234 | ng/ul  | 98  |
| 88) Benzo(k)fluoranthene       | 23.02 | 252 | 1078189 | 12.066 | ng/ul  | 97  |
| 90) Benzo(a)pyrene             | 23.57 | 252 | 2355582 | 26.484 | ng/ul  | 98  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.98 | 276 | 1621812 | 15.438 | ng/ul  | 96  |
| 92) Dibenzo(a,h)anthracene     | 25.99 | 278 | 455022  | 5.112  | ng/ul# | 83  |
| 93) Benzo(g,h,i)perylene       | 26.70 | 276 | 1190854 | 13.973 | ng/ul  | 98  |

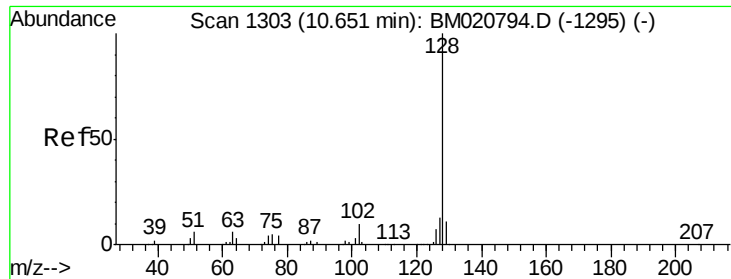
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM060719\  
Data File : BM020807.D  
Acq On : 07 Jun 2019 17:03  
Operator : HP/JU  
Sample : K3201-08DL 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB9DL

Quant Time: Jun 08 00:25:53 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jun 08 00:20:16 2019  
Response via : Initial Calibration

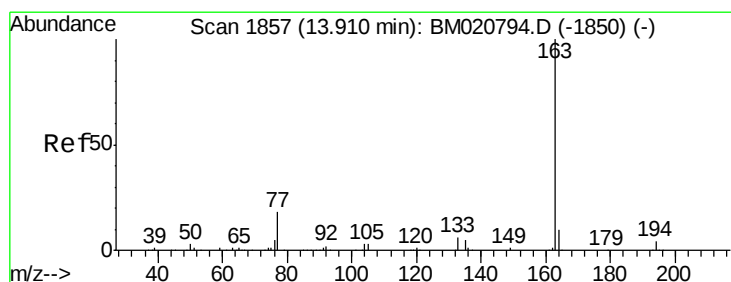
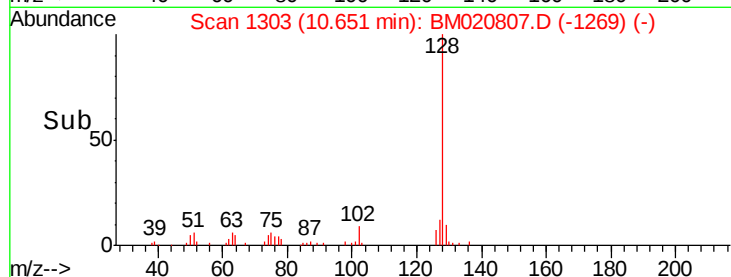
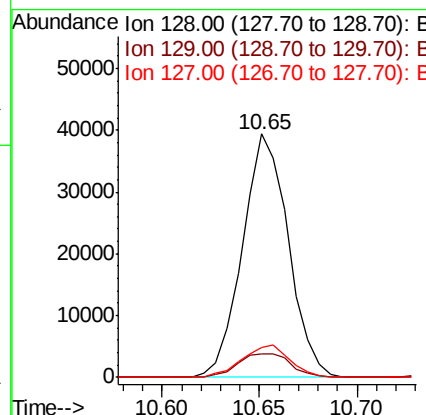
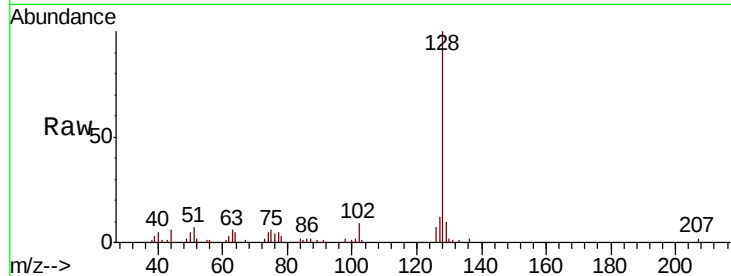




#28  
Naphthalene  
Concen: 1.013 ng/ul  
RT: 10.65 min Scan# 1303  
Delta R.T. -0.00 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

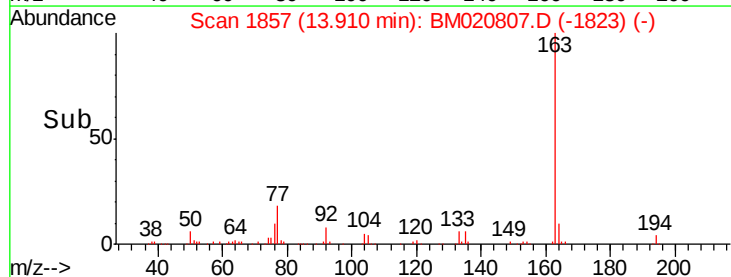
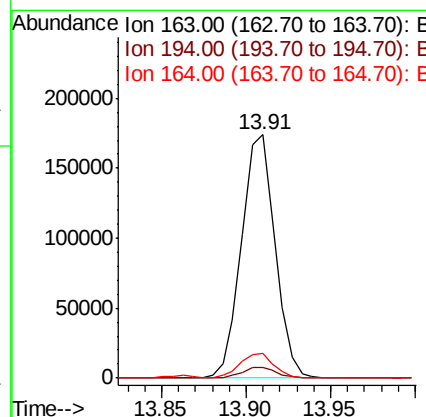
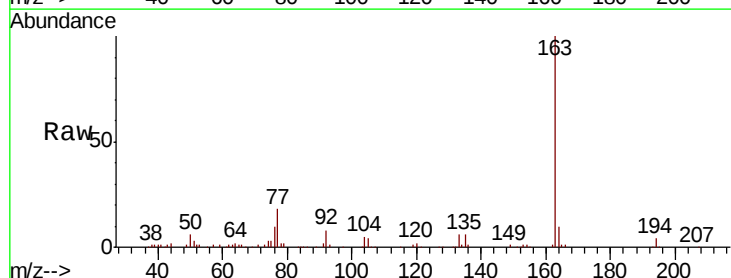
Instrument :  
BNA\_M  
ClientSampleId :  
C0AB9DL

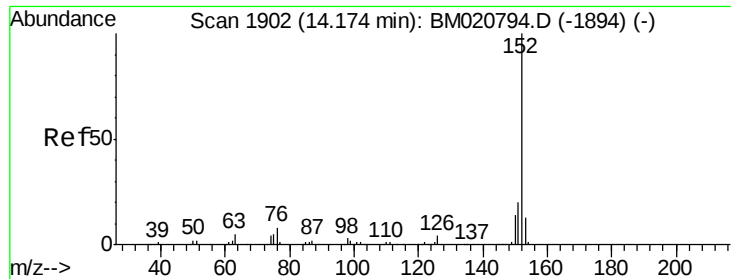
Tgt Ion:128 Resp: 64009  
Ion Ratio Lower Upper  
128 100  
129 9.7 8.6 13.0  
127 12.4 10.2 15.2



#44  
Dimethylphthalate  
Concen: 4.385 ng/ul  
RT: 13.91 min Scan# 1857  
Delta R.T. -0.00 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

Tgt Ion:163 Resp: 241798  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.2 4.8  
164 10.3 8.0 12.0

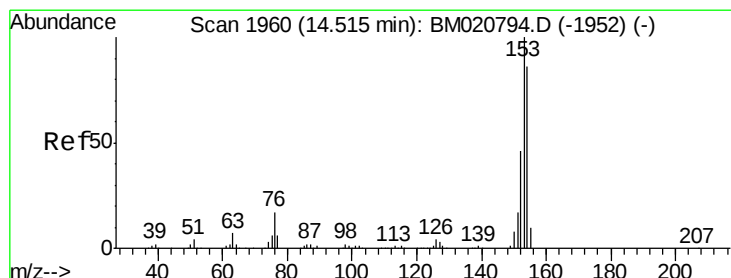
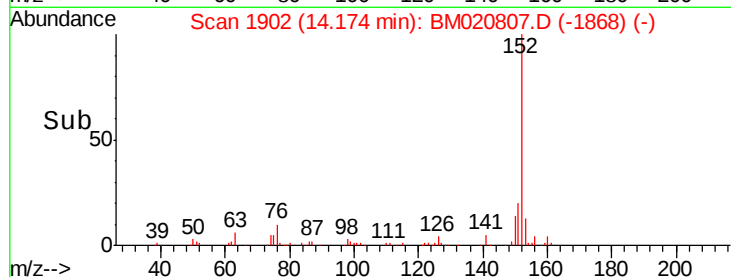
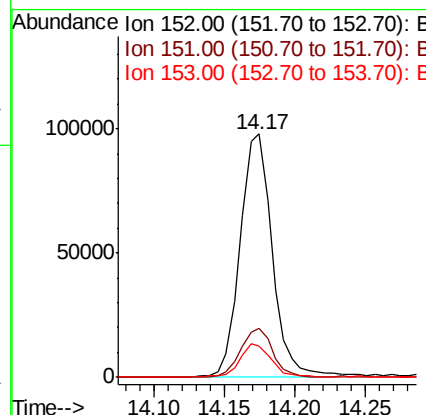
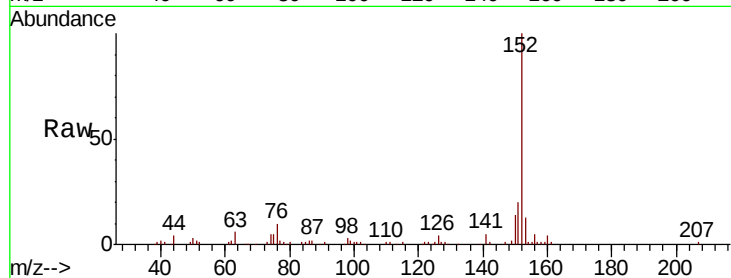




#47  
Acenaphthylene  
Concen: 2.317 ng/ul  
RT: 14.17 min Scan# 1902  
Delta R.T. -0.00 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

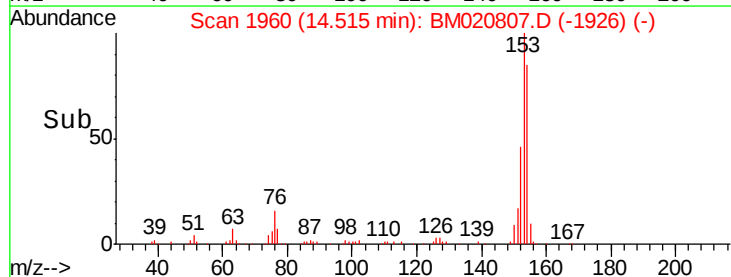
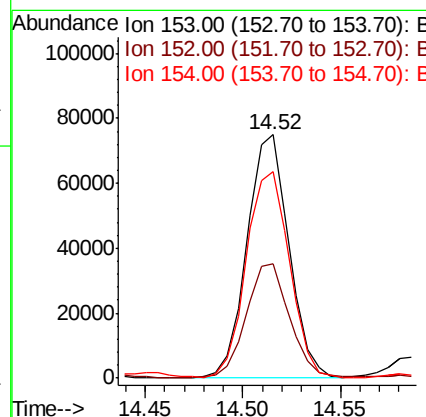
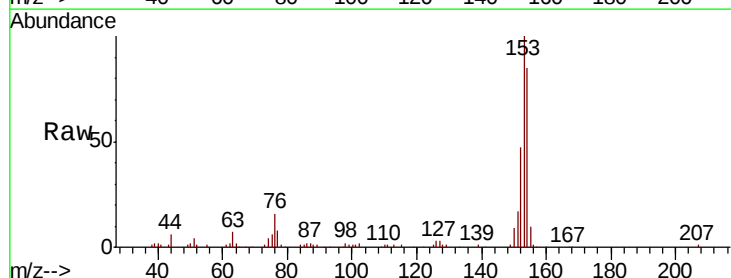
Instrument :  
BNA\_M  
ClientSampleId :  
C0AB9DL

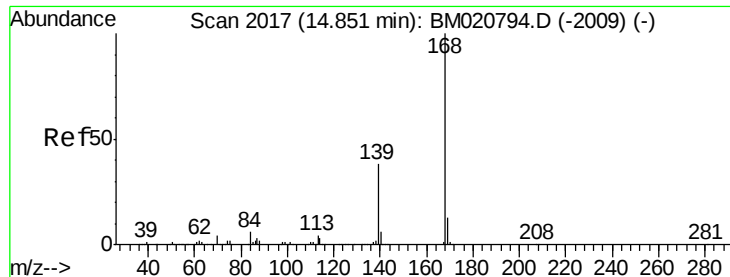
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 16.2  | 24.2  |
| 153     | 12.8  | 10.6  | 15.8  |



#49  
Acenaphthene  
Concen: 2.363 ng/ul  
RT: 14.52 min Scan# 1960  
Delta R.T. -0.00 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 46.8  | 37.3  | 55.9  |
| 154     | 84.7  | 68.7  | 103.1 |





#53

Dibenzenofuran

Concen: 1.219 ng/ul

RT: 14.85 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

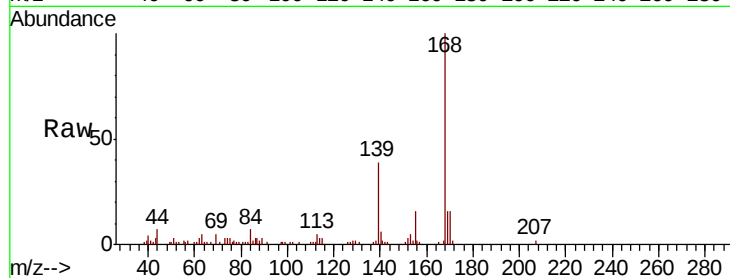
C0AB9DL

Tgt Ion:168 Resp: 81320

Ion Ratio Lower Upper

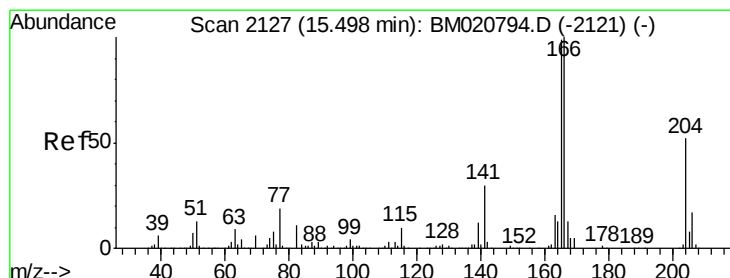
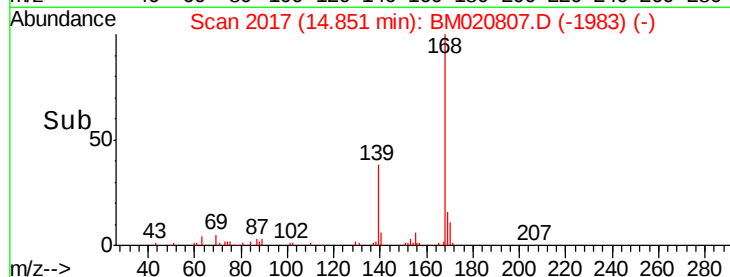
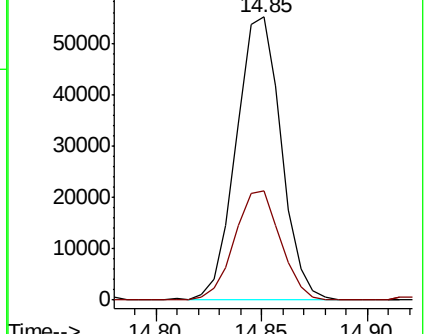
168 100

139 38.7 30.4 45.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#58

Fluorene

Concen: 2.108 ng/ul

RT: 15.50 min Scan# 2127

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

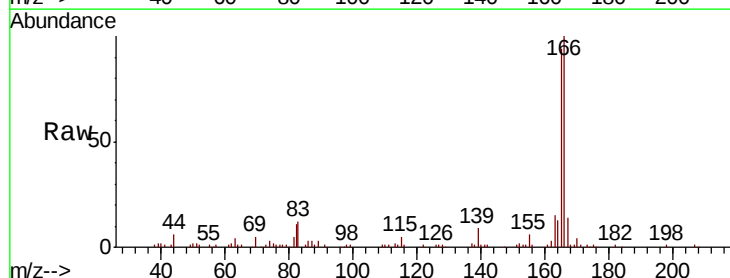
Tgt Ion:166 Resp: 112900

Ion Ratio Lower Upper

166 100

165 94.4 78.6 117.8

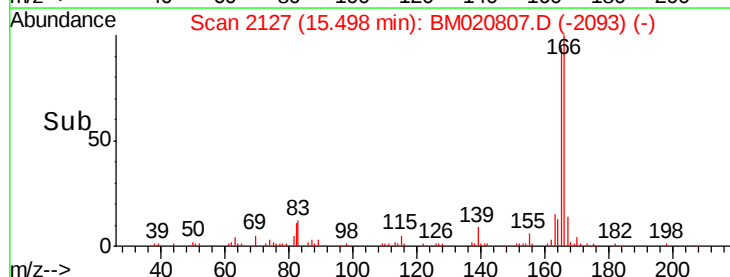
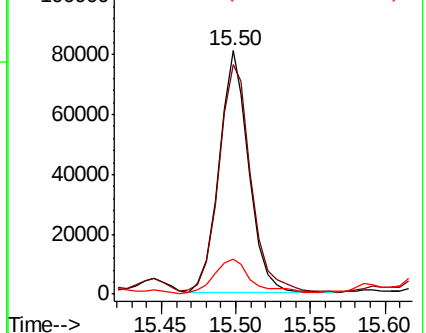
167 14.4 10.8 16.2

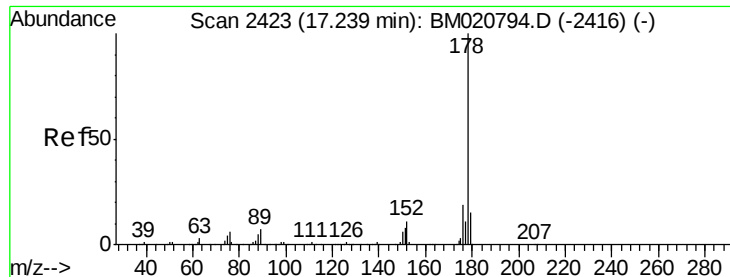


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 28.948 ng/ul

RT: 17.24 min Scan# 2423

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

C0AB9DL

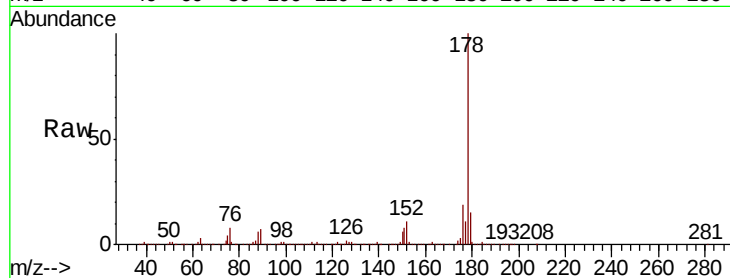
Tgt Ion:178 Resp: 2315513

Ion Ratio Lower Upper

178 100

179 15.3 12.3 18.5

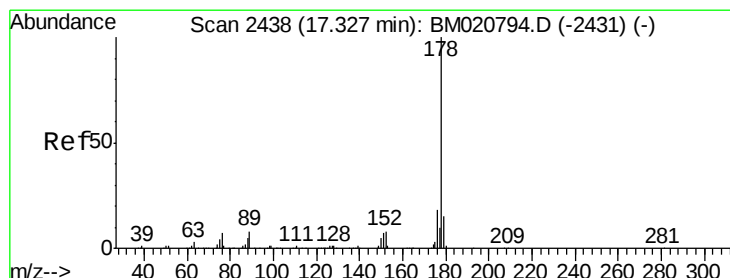
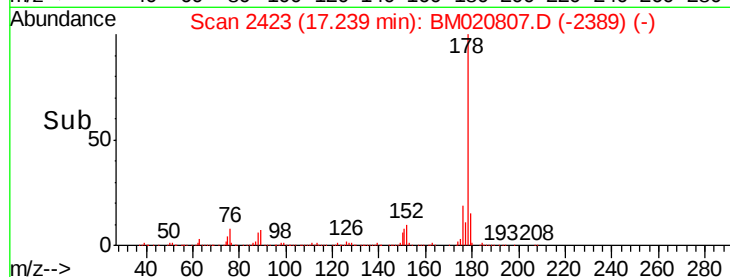
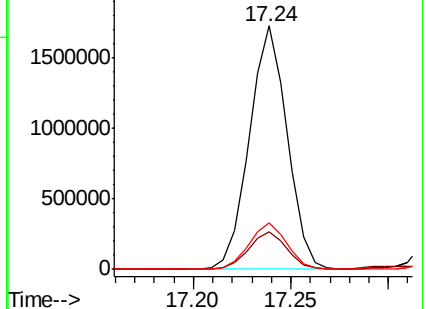
176 18.9 14.8 22.2



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



#71

Anthracene

Concen: 6.225 ng/ul

RT: 17.33 min Scan# 2438

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

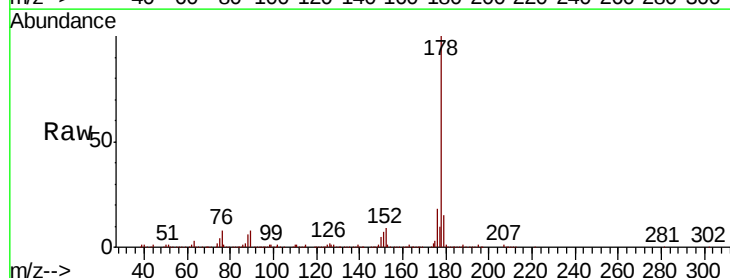
Tgt Ion:178 Resp: 510355

Ion Ratio Lower Upper

178 100

179 14.8 12.1 18.1

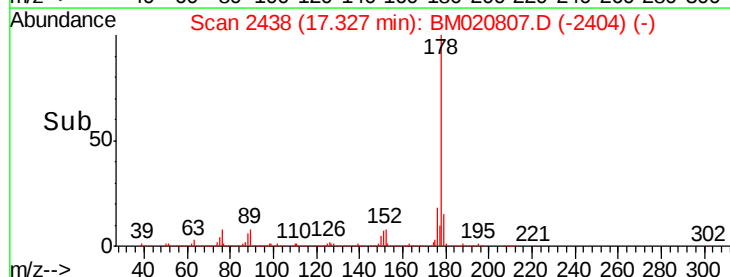
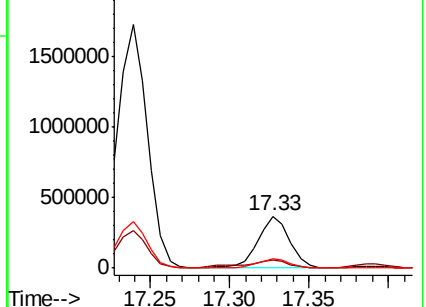
176 18.4 14.9 22.3

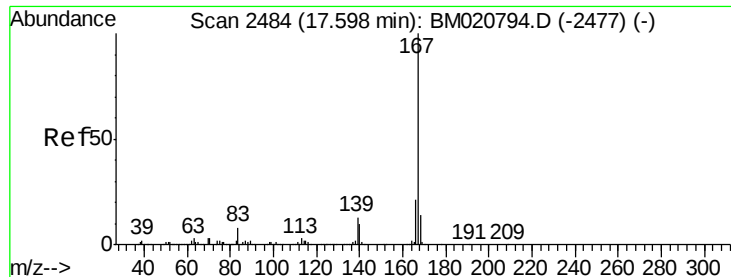


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 3.186 ng/ul

RT: 17.60 min Scan# 2484

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

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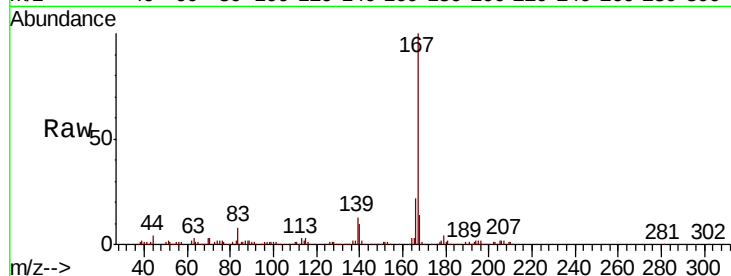
Tgt Ion:167 Resp: 227169

Ion Ratio Lower Upper

167 100

166 22.0 17.0 25.6

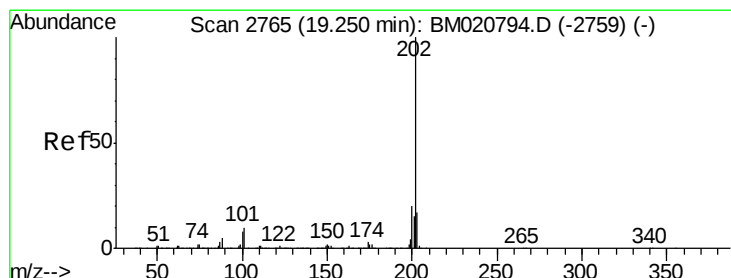
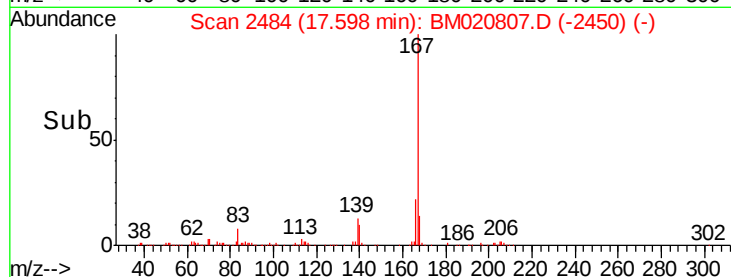
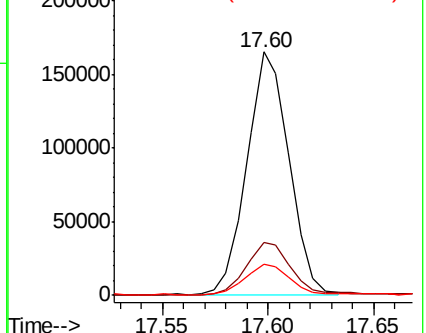
139 12.9 10.5 15.7



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#76

Fluoranthene

Concen: 51.602 ng/ul

RT: 19.26 min Scan# 2766

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

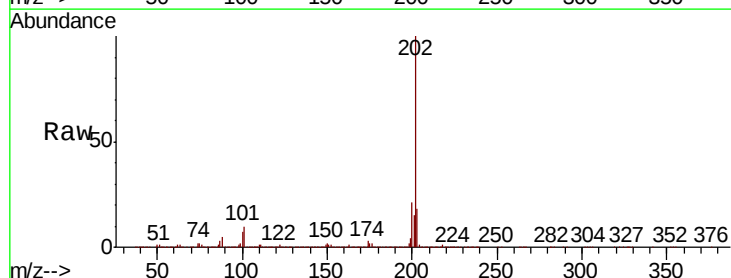
Tgt Ion:202 Resp: 4730055

Ion Ratio Lower Upper

202 100

101 9.7 7.9 11.9

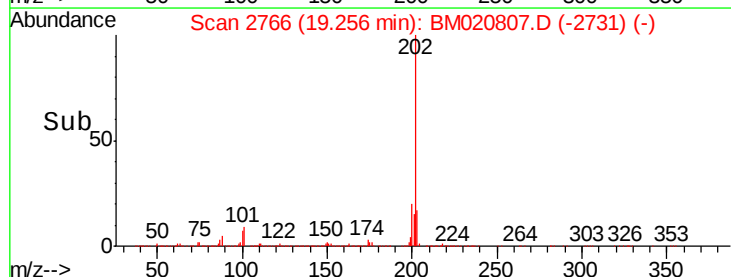
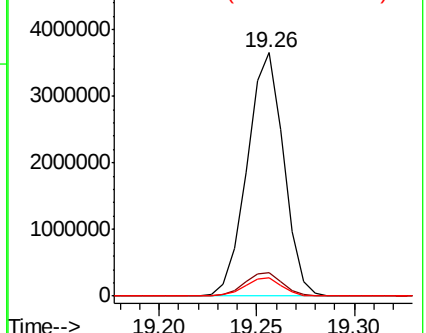
100 7.5 6.2 9.4

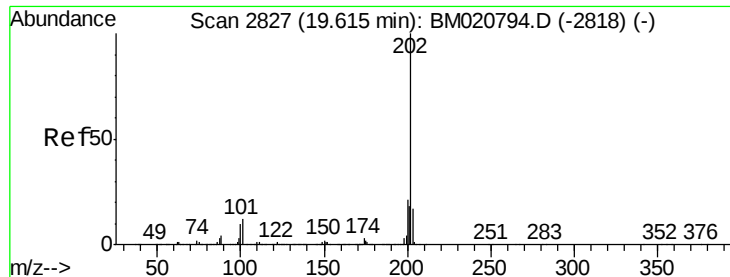


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

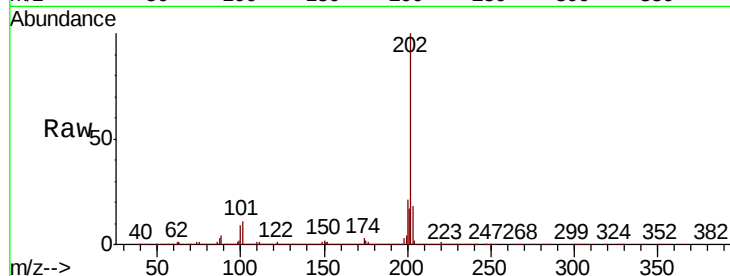




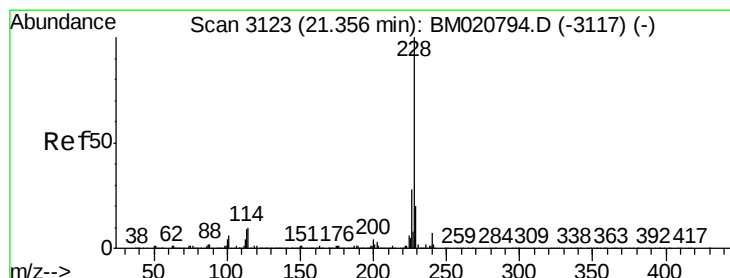
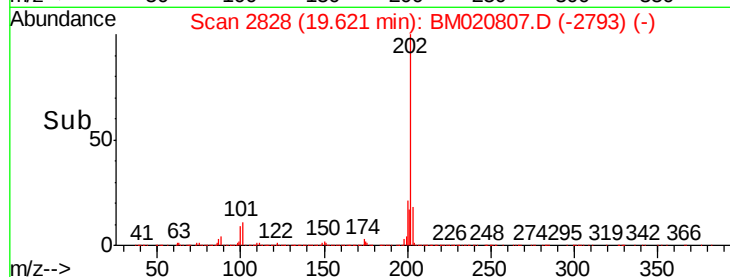
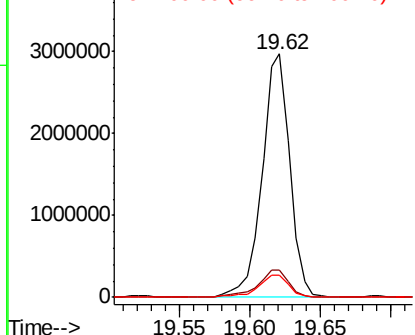
#79  
 Pyrene  
 Concen: 48.192 ng/ul  
 RT: 19.62 min Scan# 2828  
 Delta R.T. 0.01 min  
 Lab File: BM020807.D  
 Acq: 07 Jun 2019 17:03

Instrument :  
 BNA\_M  
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 C0AB9DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 9.8   | 14.6  |
| 100     | 9.2   | 8.0   | 12.0  |

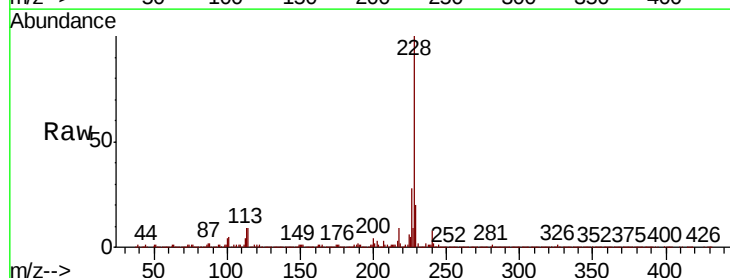


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

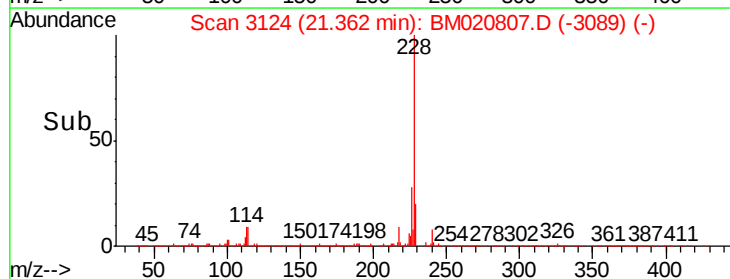
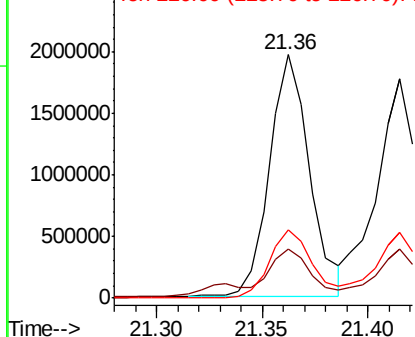


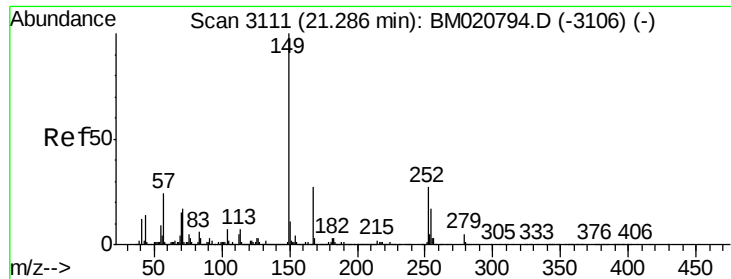
#82  
 Benzo(a)anthracene  
 Concen: 30.302 ng/ul  
 RT: 21.36 min Scan# 3124  
 Delta R.T. 0.01 min  
 Lab File: BM020807.D  
 Acq: 07 Jun 2019 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 15.6  | 23.4  |
| 226     | 28.2  | 21.4  | 32.2  |



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





#83

Bis(2-ethylhexyl)phthalate

Concen: 3.568 ng/ul

RT: 21.29 min Scan# 3112

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

C0AB9DL

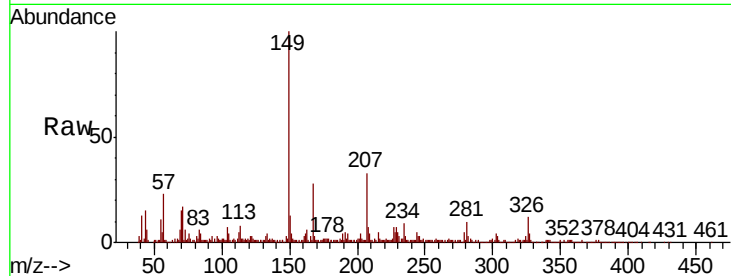
Tgt Ion:149 Resp: 208225

Ion Ratio Lower Upper

149 100

167 27.6 21.9 32.9

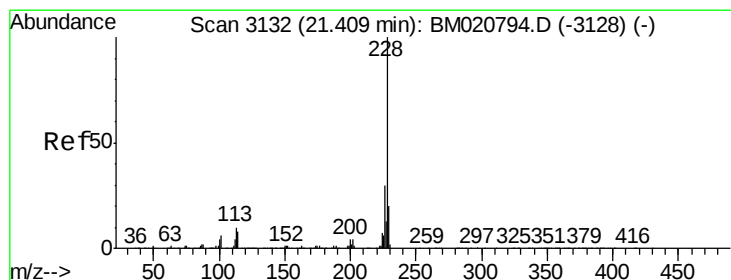
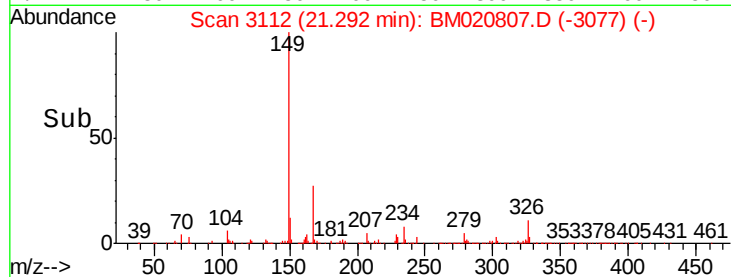
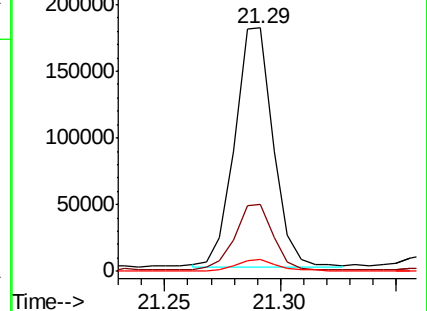
279 5.0 4.1 6.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Chrysene

Concen: 29.975 ng/ul

RT: 21.42 min Scan# 3133

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

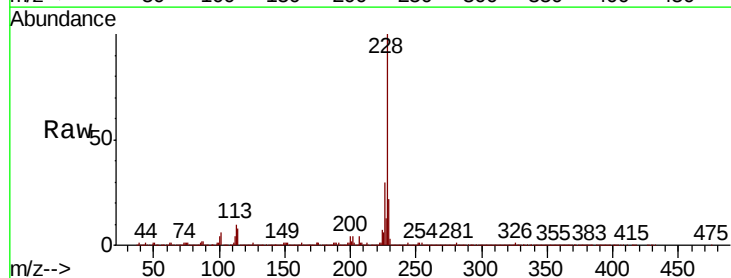
Tgt Ion:228 Resp: 2386751

Ion Ratio Lower Upper

228 100

226 29.8 24.4 36.6

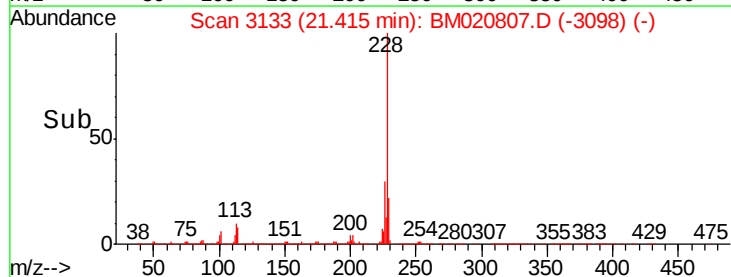
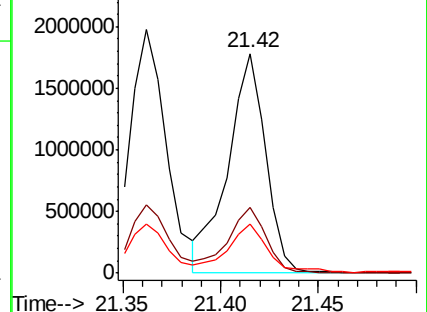
229 22.1 16.2 24.2

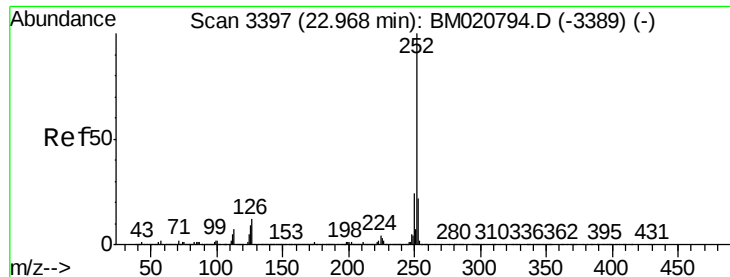


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#87

Benzo(b)fluoranthene

Concen: 37.234 ng/ul

RT: 22.98 min Scan# 3399

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

C0AB9DL

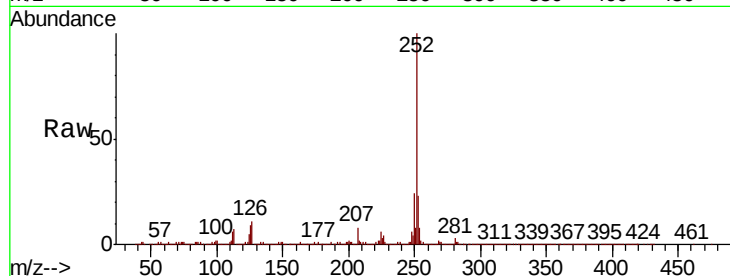
Tgt Ion:252 Resp: 3481069

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

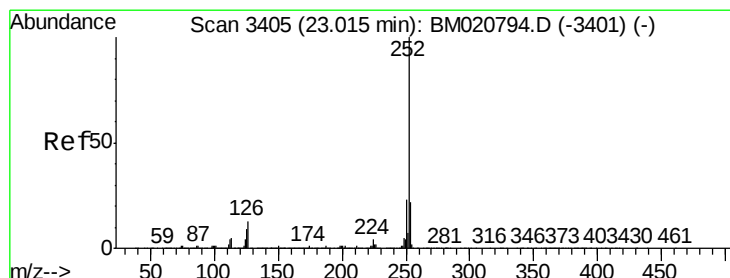
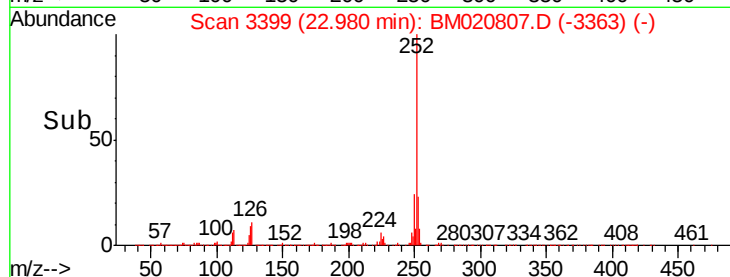
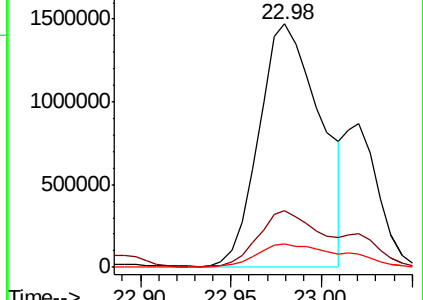
125 9.4 7.3 10.9



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



#88

Benzo(k)fluoranthene

Concen: 12.066 ng/ul

RT: 23.02 min Scan# 3406

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

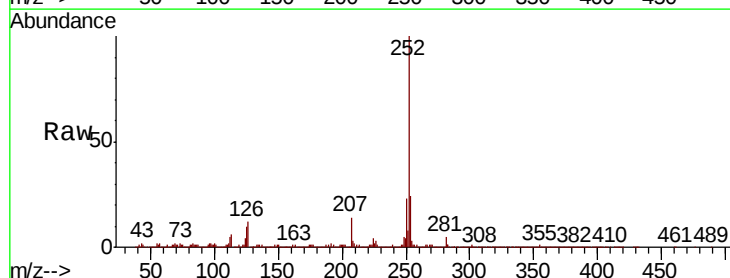
Tgt Ion:252 Resp: 1078189

Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

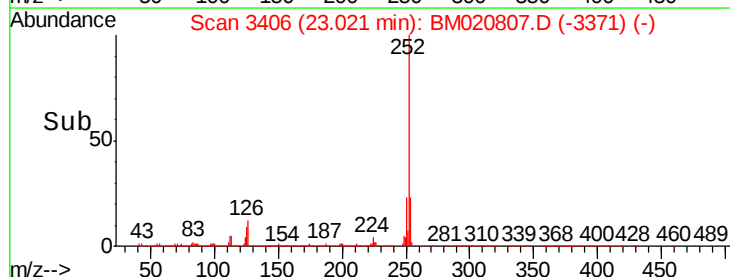
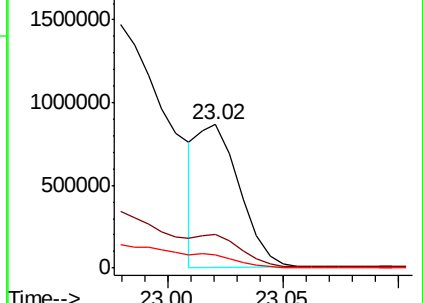
125 9.5 7.3 10.9

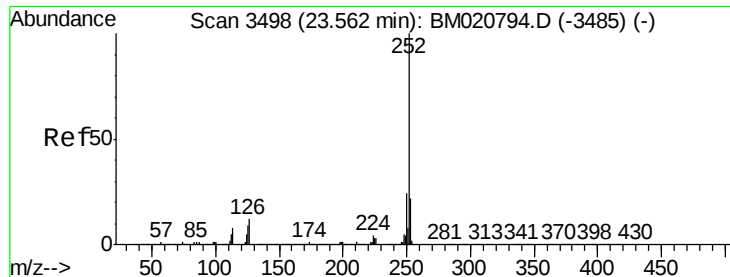


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 26.484 ng/ul

RT: 23.57 min Scan# 3499

Delta R.T. 0.01 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

Instrument :

BNA\_M

ClientSampleId :

C0AB9DL

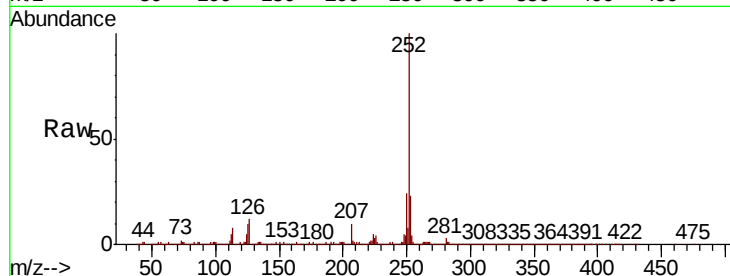
Tgt Ion:252 Resp: 2355582

Ion Ratio Lower Upper

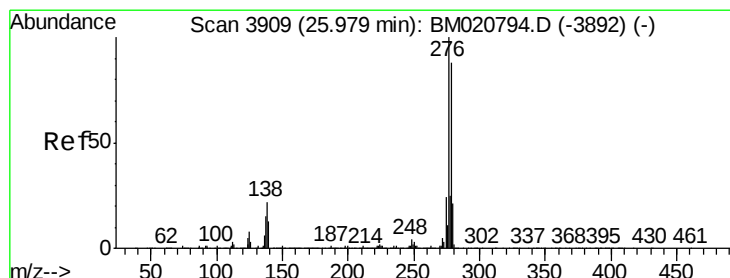
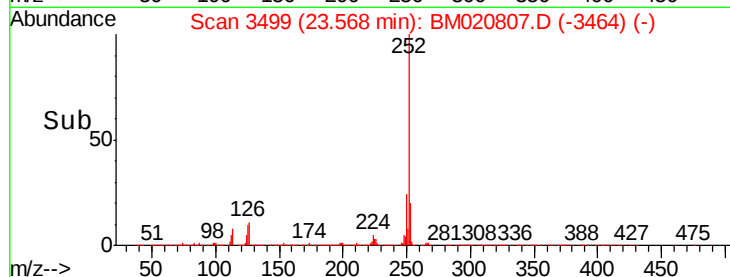
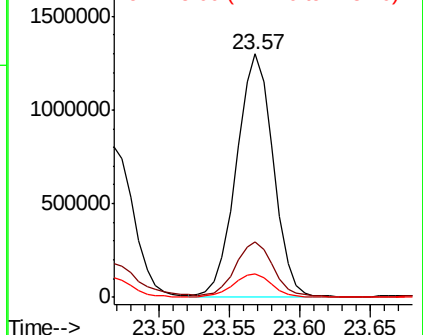
252 100

253 22.6 17.0 25.6

125 9.8 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



#91

Indeno(1,2,3-cd)pyrene

Concen: 15.438 ng/ul

RT: 25.98 min Scan# 3909

Delta R.T. -0.00 min

Lab File: BM020807.D

Acq: 07 Jun 2019 17:03

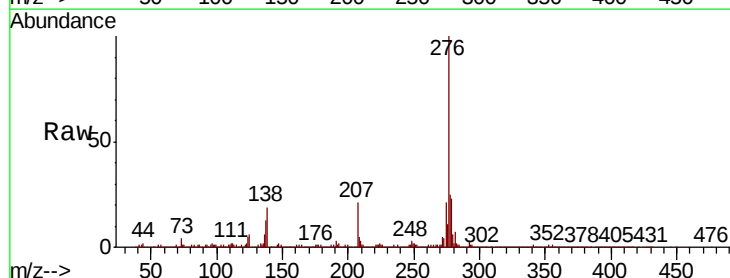
Tgt Ion:276 Resp: 1621812

Ion Ratio Lower Upper

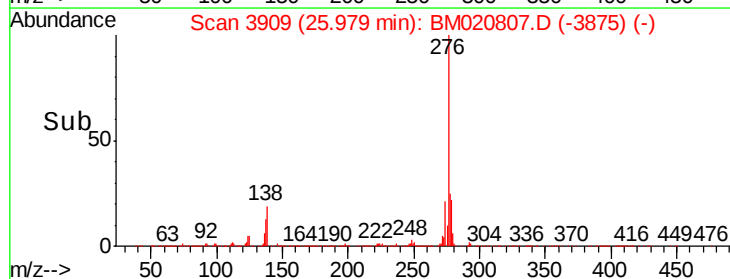
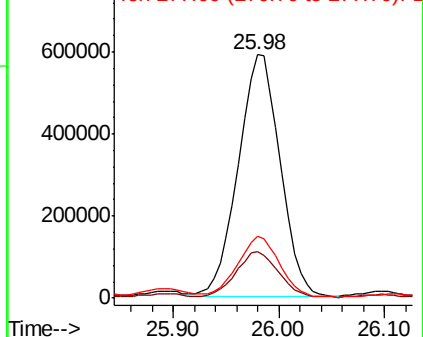
276 100

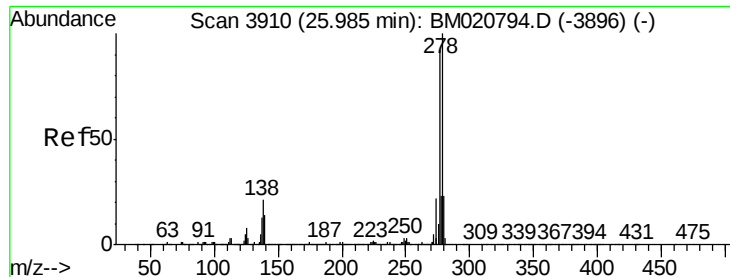
138 19.0 17.8 26.8

277 25.5 20.0 30.0



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

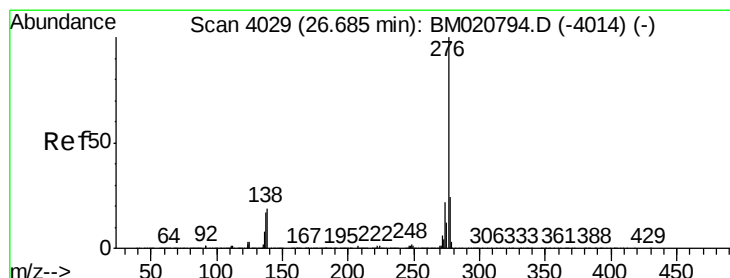
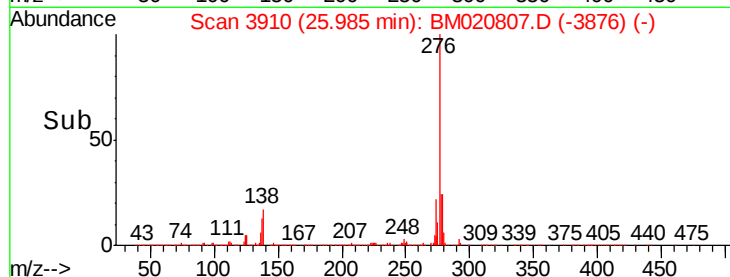
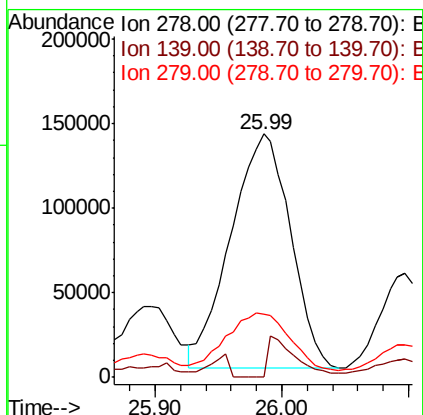
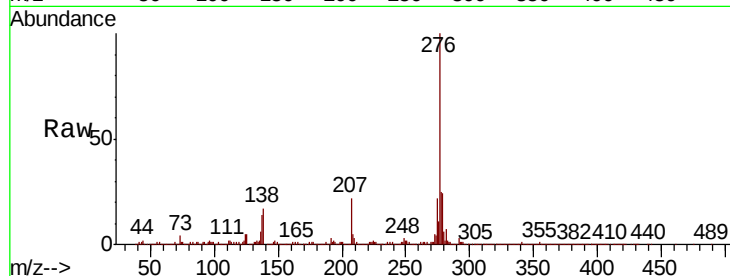




#92  
Dibenzo(a,h)anthracene  
Concen: 5.112 ng/ul  
RT: 25.99 min Scan# 3910  
Delta R.T. -0.00 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB9DL

Tgt Ion: 278 Resp: 455022  
Ion Ratio Lower Upper  
278 100  
139 0.0 11.6 17.4#  
279 25.8 18.6 28.0



#93  
Benzo(g,h,i)perylene  
Concen: 13.973 ng/ul  
RT: 26.70 min Scan# 4031  
Delta R.T. 0.01 min  
Lab File: BM020807.D  
Acq: 07 Jun 2019 17:03

Tgt Ion: 276 Resp: 1190854  
Ion Ratio Lower Upper  
276 100  
138 18.6 16.6 25.0  
277 24.7 19.6 29.4

