

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031820\  
 Data File : BM025636.D  
 Acq On : 18 Mar 2020 19:22  
 Operator : CG/JU  
 Sample : L1786-15  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Mar 19 00:08:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 18 05:07:34 2020  
 Response via : Initial Calibration

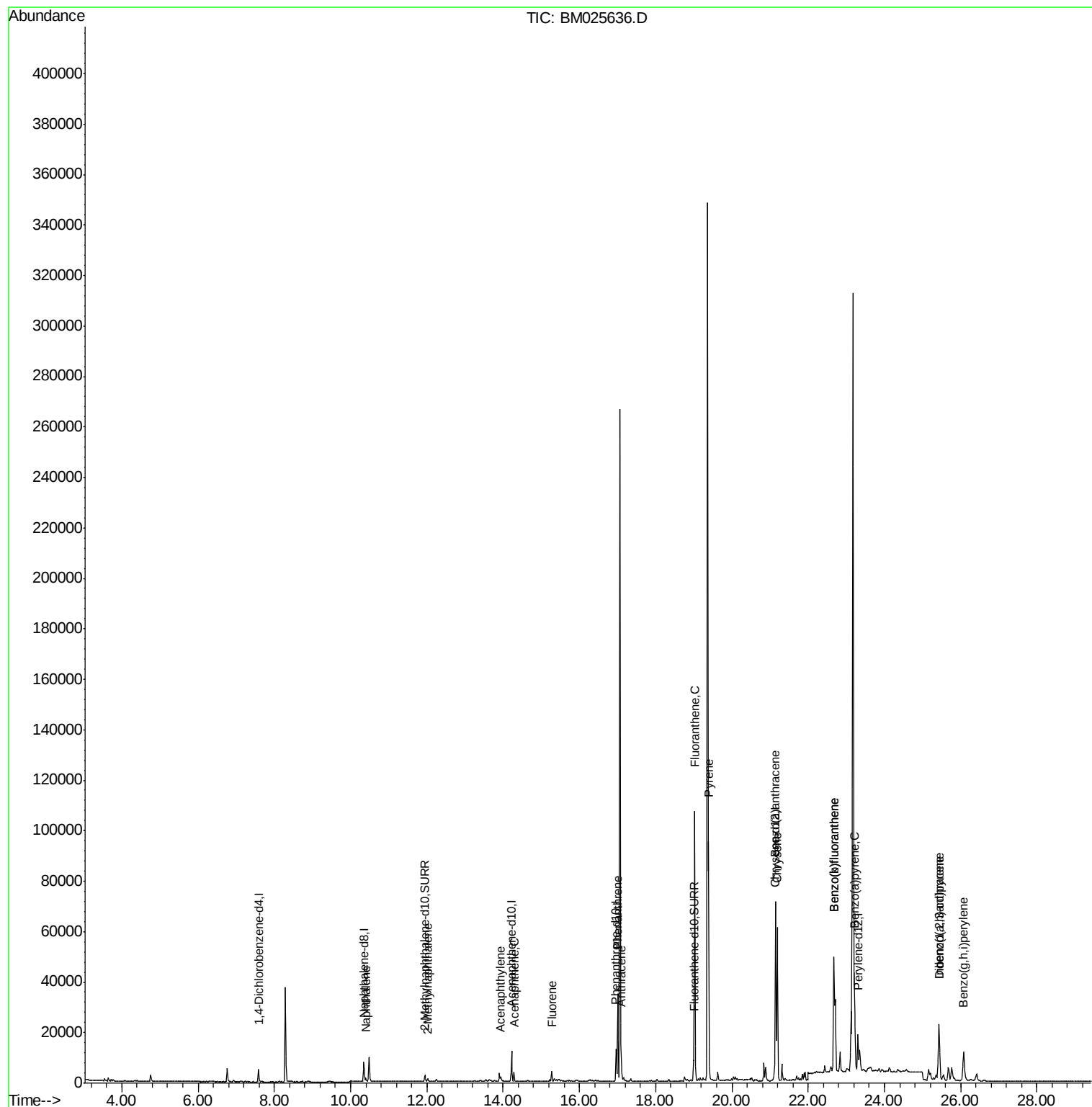
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.59  | 152  | 2443     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.35 | 136  | 10142    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.22 | 164  | 6580     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 15017    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.16 | 240  | 16145    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.31 | 264  | 17107    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 3477     | 0.19   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 9139     | 0.22   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.40 | 128  | 2067     | 0.069  | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.02 | 142  | 750      | 0.035  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.94 | 152  | 2014     | 0.075  | ng/ul# | 82       |
| 8) Acenaphthene             | 14.28 | 153  | 2189     | 0.093  | ng/ul  | 99       |
| 9) Fluorene                 | 15.27 | 166  | 2364     | 0.082  | ng/ul# | 99       |
| 12) Phenanthrene            | 17.01 | 178  | 35494    | 0.746  | ng/ul  | 99       |
| 13) Anthracene              | 17.10 | 178  | 9265     | 0.224  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.02 | 202  | 91458    | 1.773  | ng/ul  | 97       |
| 17) Pyrene                  | 19.39 | 202  | 78807    | 1.088  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.14 | 228  | 56142    | 0.973  | ng/ul  | 99       |
| 19) Chrysene                | 21.19 | 228  | 54431    | 0.840  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.67 | 252  | 104454   | 1.542  | ng/ul  | 99       |
| 22) Benzo(k)fluoranthene    | 22.67 | 252  | 104339   | 1.470  | ng/ul  | 99       |
| 23) Benzo(a)pyrene          | 23.21 | 252  | 48923    | 0.870  | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.43 | 276  | 33601    | 0.440  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.44 | 278  | 10509    | 0.164  | ng/ul# | 86       |
| 26) Benzo(a,h,i)perylene    | 26.08 | 276  | 24111    | 0.364  | ng/ul  | 98       |

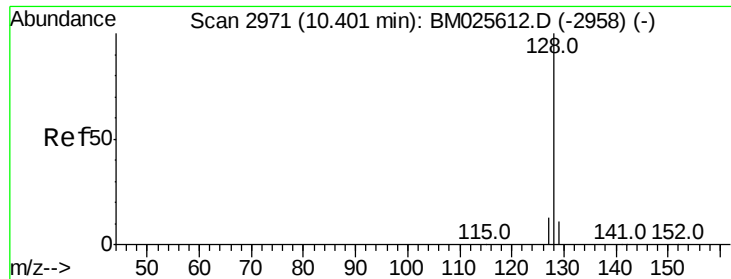
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.069 ng/ul

RT: 10.40 min Scan# 2970

Delta R.T. -0.00 min

Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

Instrument :

BNA\_M

ClientSampleId :

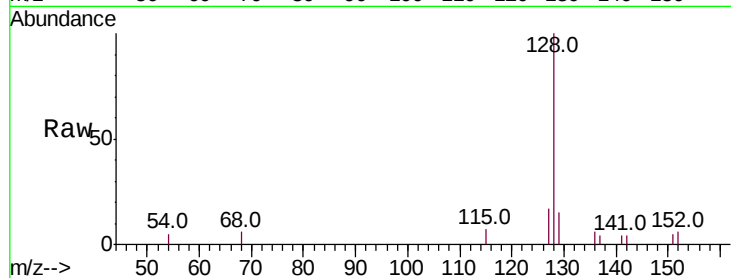
Tot Ion:128 Resp: 2067

Ion Ratio Lower Upper

128 100

129 15.0 9.4 14.0#

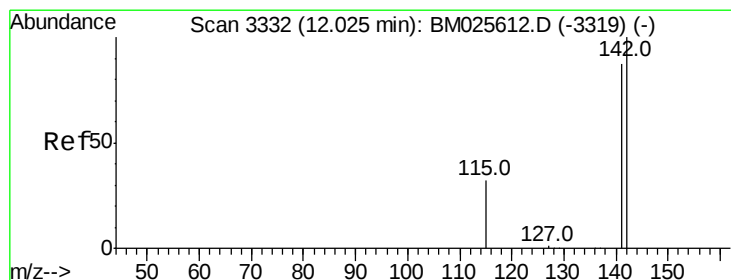
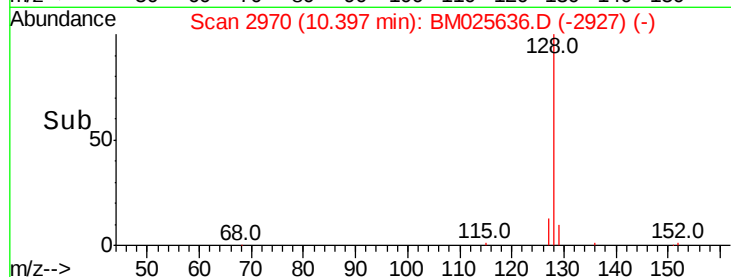
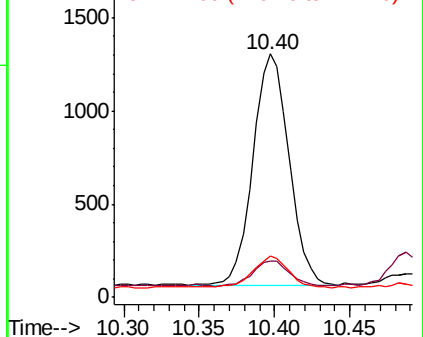
127 16.8 10.9 16.3#



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



#5

2-Methylnaphthalene

Concen: 0.035 ng/ul

RT: 12.02 min Scan# 3331

Delta R.T. -0.00 min

Lab File: BM025636.D

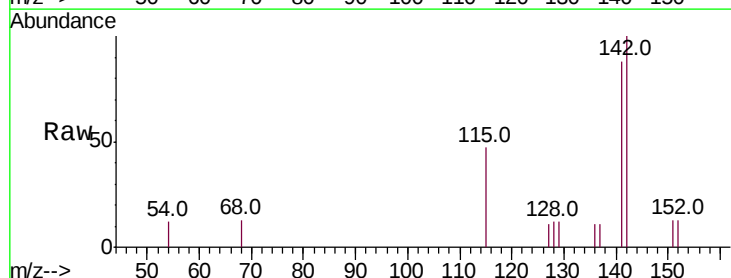
Acq: 18 Mar 2020 19:22

Tgt Ion:142 Resp: 750

Ion Ratio Lower Upper

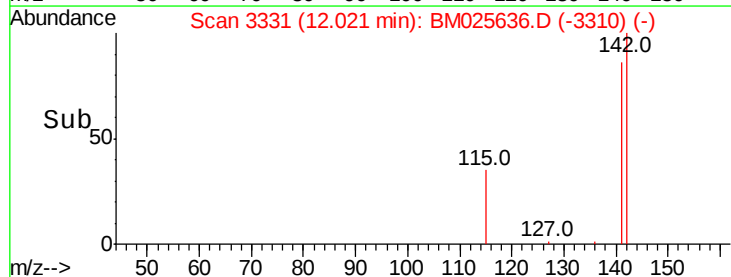
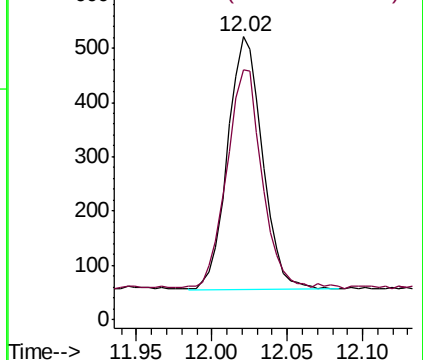
142 100

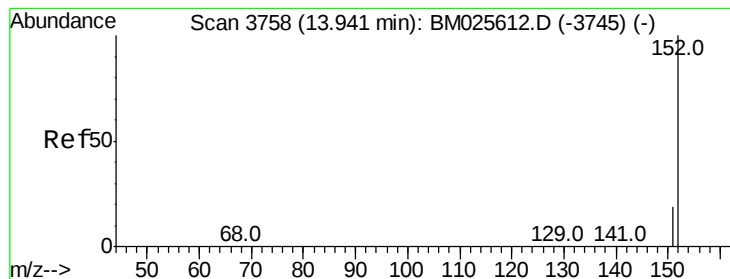
141 85.6 69.8 104.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.075 ng/ul

RT: 13.94 min Scan# 3757

Delta R.T. -0.00 min

Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

Instrument :

BNA\_M

ClientSampleId :

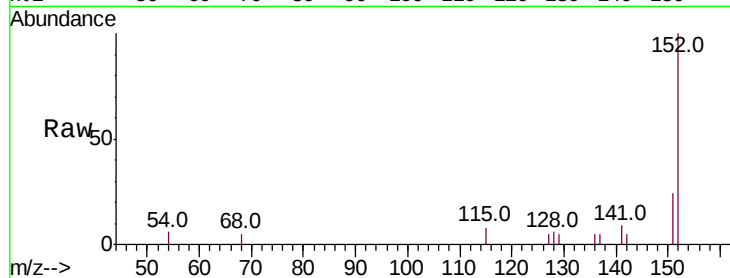
Tot Ion:152 Resp: 2014

Ion Ratio Lower Upper

152 100

151 24.2 16.2 24.2

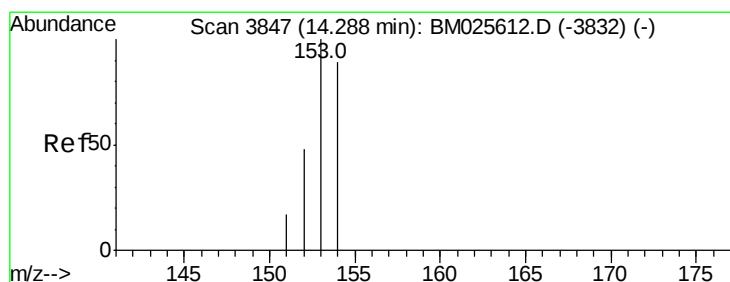
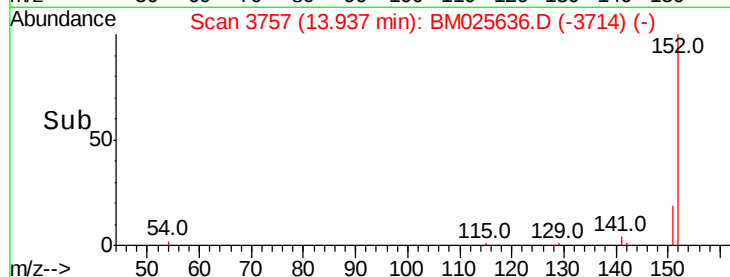
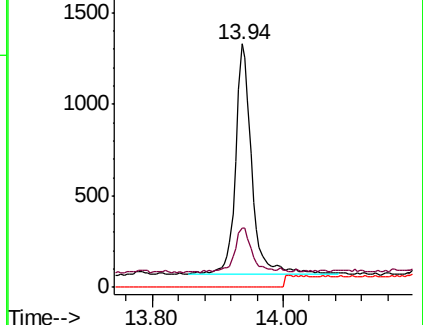
153 0.0 10.6 16.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.093 ng/ul

RT: 14.28 min Scan# 3845

Delta R.T. -0.01 min

Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

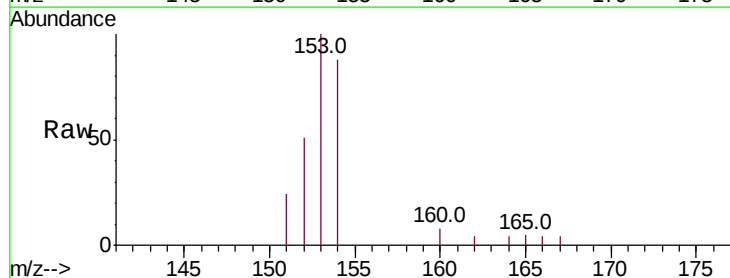
Tgt Ion:153 Resp: 2189

Ion Ratio Lower Upper

153 100

152 50.7 39.5 59.3

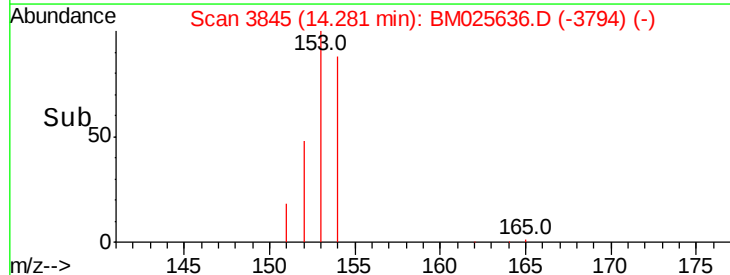
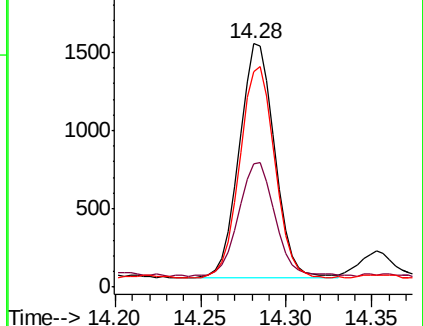
154 88.4 71.7 107.5

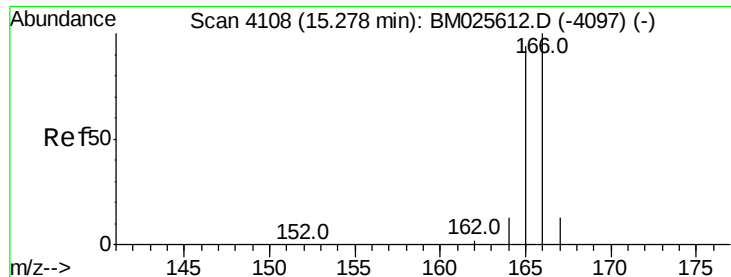


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

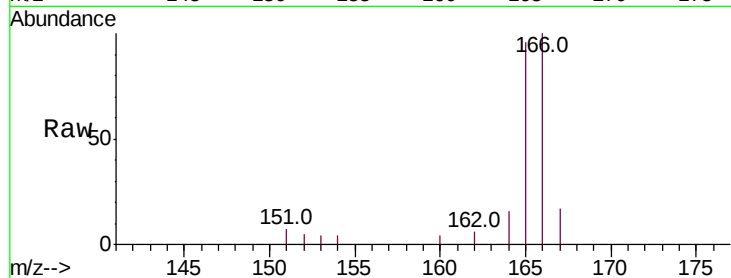




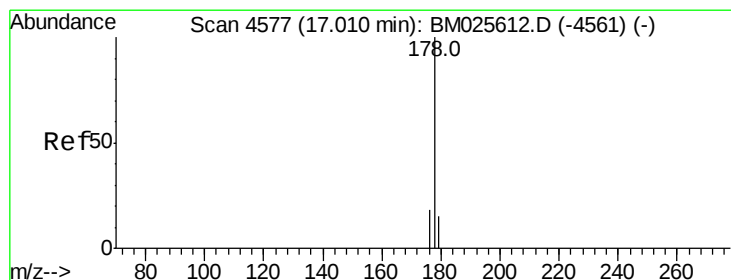
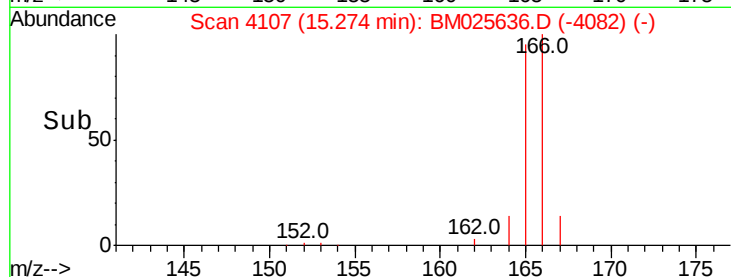
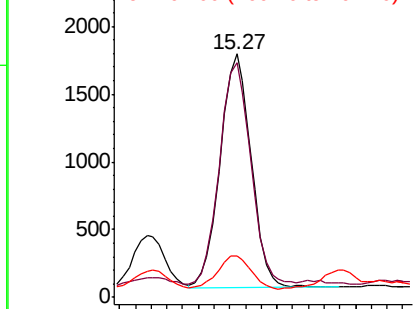
#9  
**Fluorene**  
 Concen: 0.082 ng/ul  
 RT: 15.27 min Scan# 4107  
 Delta R.T. -0.00 min  
 Lab File: BM025636.D  
 Acq: 18 Mar 2020 19:22

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:166 Resp: 2364  
 Ion Ratio Lower Upper  
 166 100  
 165 96.2 76.8 115.2  
 167 17.1 11.2 16.8#

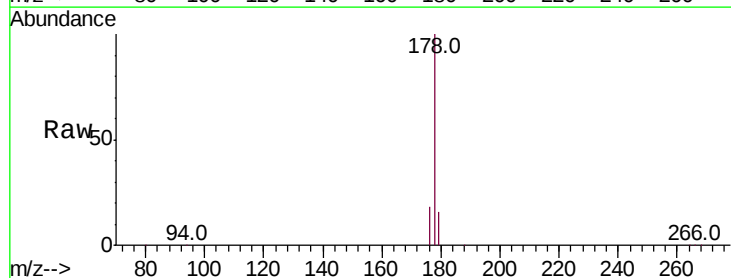


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

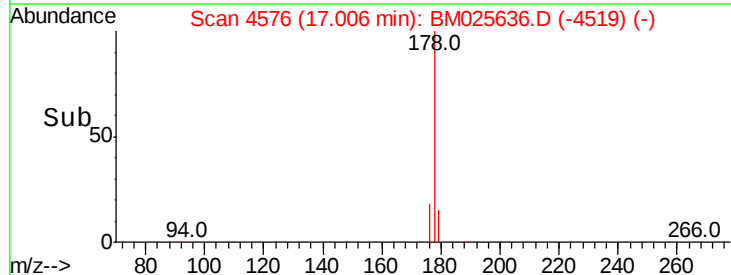
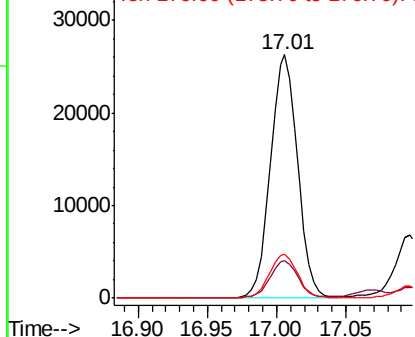


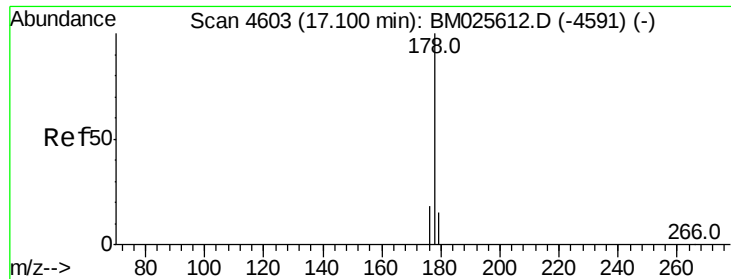
#12  
**Phenanthrene**  
 Concen: 0.746 ng/ul  
 RT: 17.01 min Scan# 4576  
 Delta R.T. -0.00 min  
 Lab File: BM025636.D  
 Acq: 18 Mar 2020 19:22

Tgt Ion:178 Resp: 35494  
 Ion Ratio Lower Upper  
 178 100  
 179 15.5 12.4 18.6  
 176 18.0 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

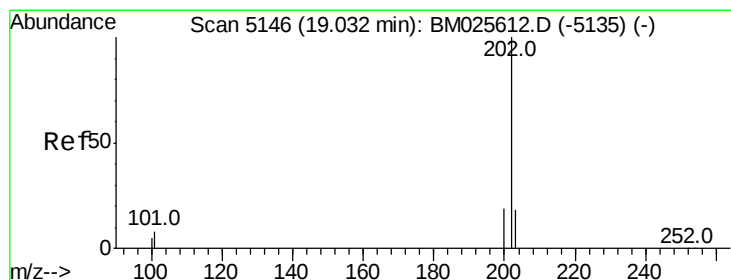
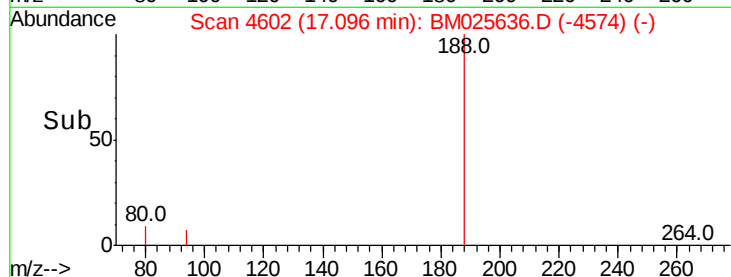
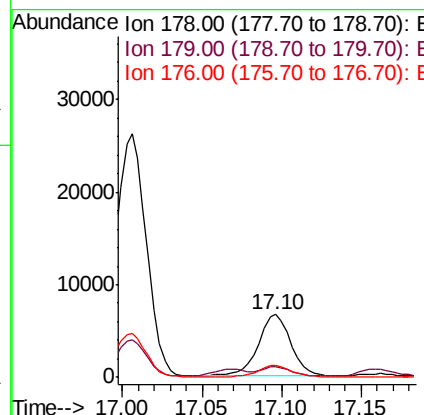
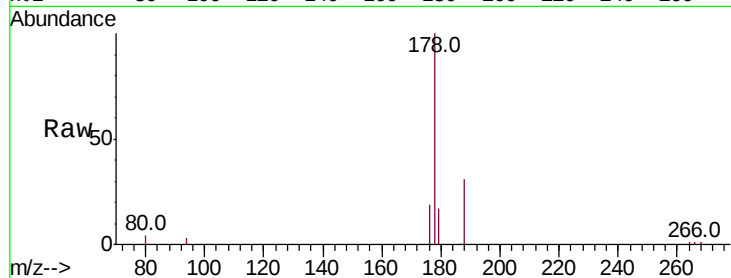




#13  
 Anthracene  
 Concen: 0.224 ng/ul  
 RT: 17.10 min Scan# 4602  
 Delta R.T. -0.00 min  
 Lab File: BM025636.D  
 Acq: 18 Mar 2020 19:22

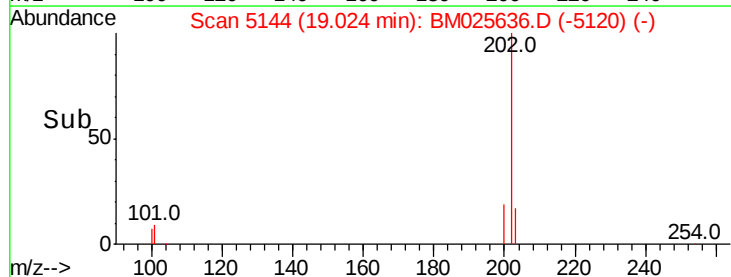
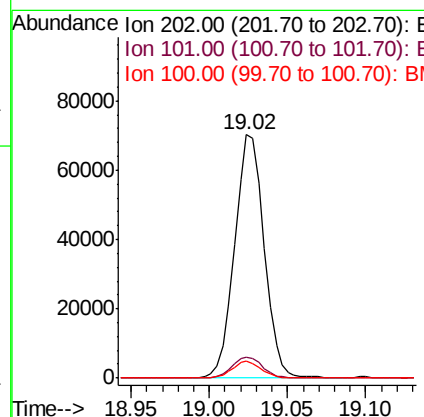
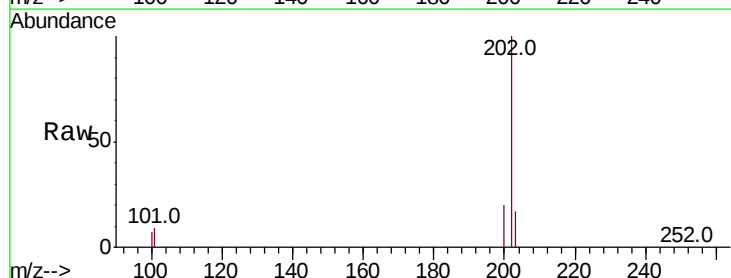
Instrument :  
 BNA\_M  
 ClientSampleId :

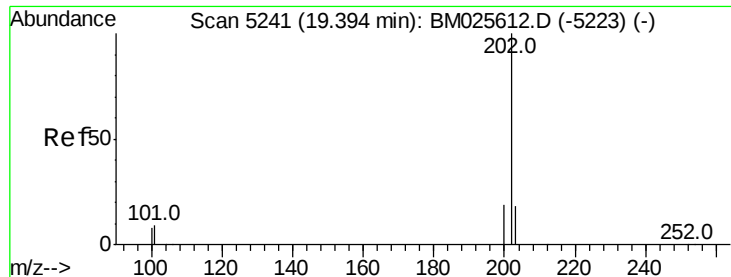
Tot Ion:178 Resp: 9265  
 Ion Ratio Lower Upper  
 178 100  
 179 16.7 12.6 18.8  
 176 18.6 14.5 21.7



#15  
 Fluoranthene  
 Concen: 1.773 ng/ul  
 RT: 19.02 min Scan# 5144  
 Delta R.T. -0.01 min  
 Lab File: BM025636.D  
 Acq: 18 Mar 2020 19:22

Tgt Ion:202 Resp: 91458  
 Ion Ratio Lower Upper  
 202 100  
 101 8.8 0.0 27.5  
 100 6.8 0.0 26.0

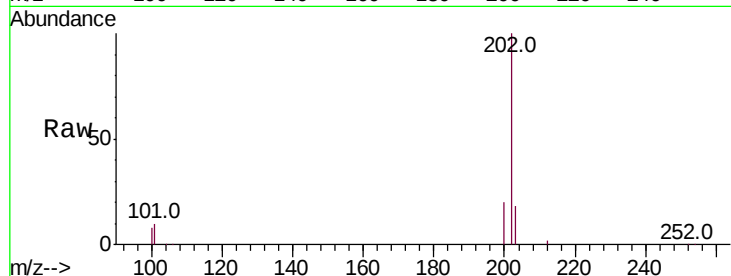




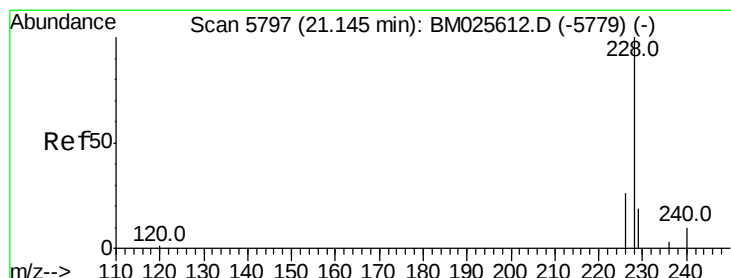
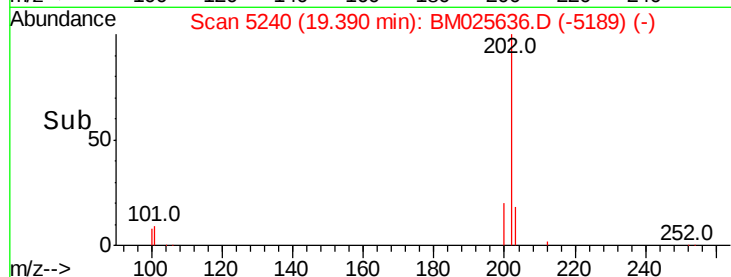
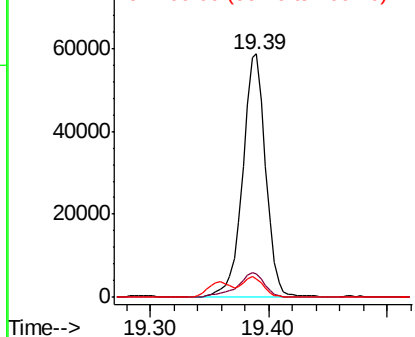
#17  
Pvrene  
Concen: 1.088 ng/ul  
RT: 19.39 min Scan# 5240  
Delta R.T. -0.00 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.5   | 7.1   | 10.7  |
| 100     | 7.8   | 6.0   | 9.0   |

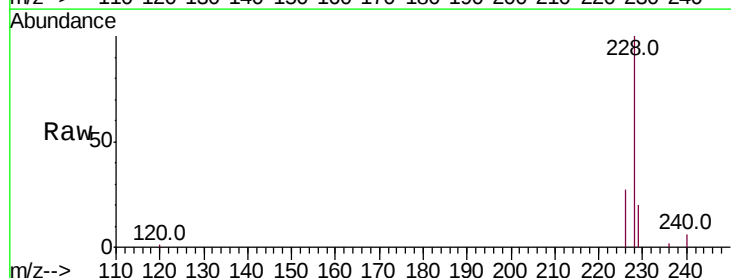


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

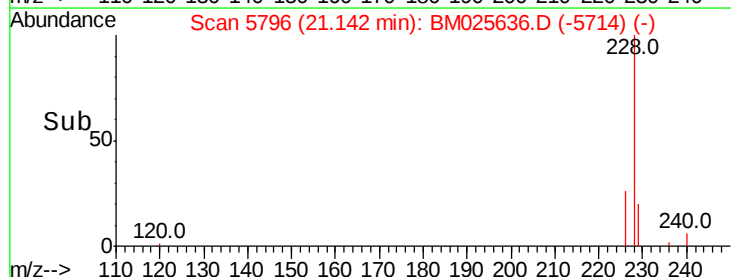
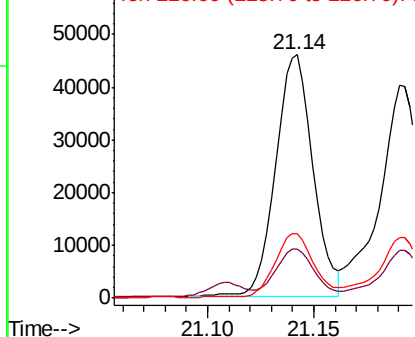


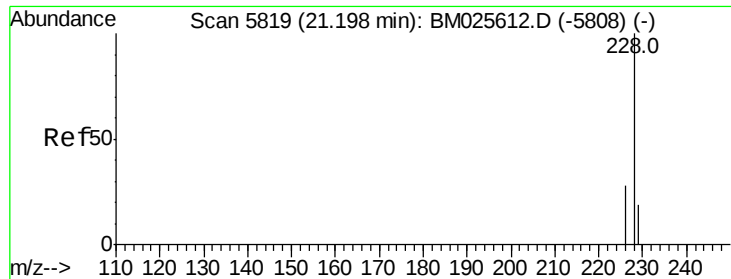
#18  
Benzo(a)anthracene  
Concen: 0.973 ng/ul  
RT: 21.14 min Scan# 5796  
Delta R.T. -0.00 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 15.6  | 23.4  |
| 226     | 26.7  | 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





#19

Chrysene

Concen: 0.840 ng/ul

RT: 21.19 min Scan# 5816

Delta R.T. -0.01 min

Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

Instrument :

BNA\_M

ClientSampleId :

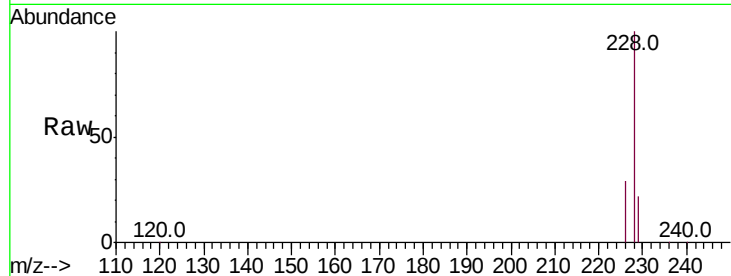
Tot Ion:228 Resp: 54431

Ion Ratio Lower Upper

228 100

226 28.6 23.6 35.4

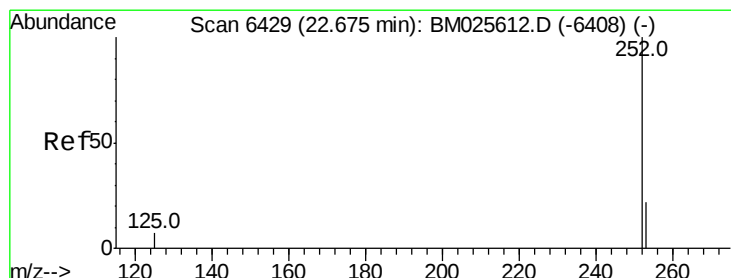
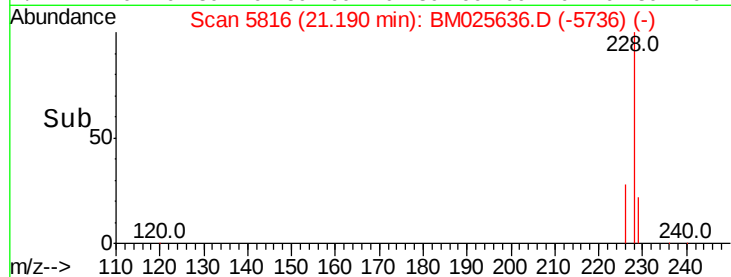
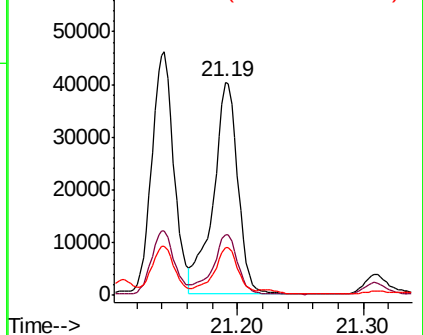
229 22.5 16.3 24.5



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



#21

Benzo(b)fluoranthene

Concen: 1.542 ng/ul

RT: 22.67 min Scan# 6428

Delta R.T. -0.00 min

Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

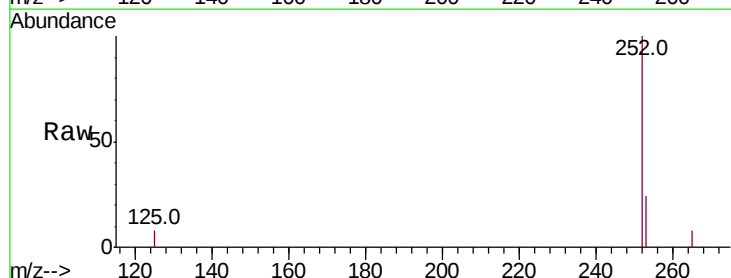
Tgt Ion:252 Resp: 104454

Ion Ratio Lower Upper

252 100

253 24.4 0.0 50.2

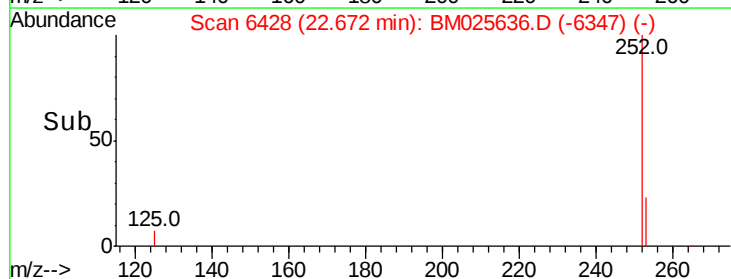
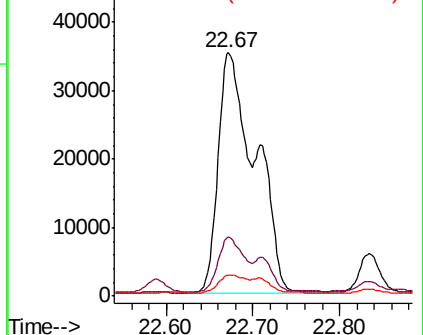
125 8.5 0.0 17.6

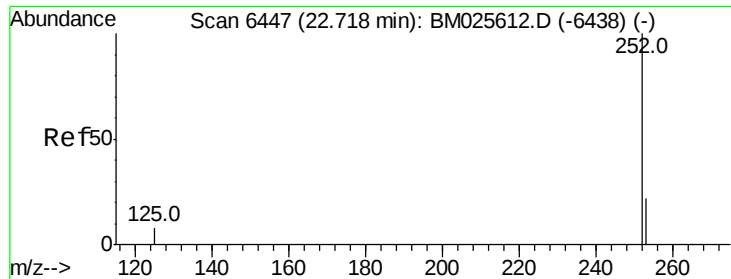


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

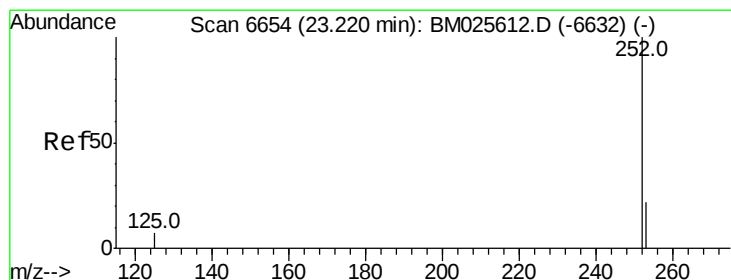
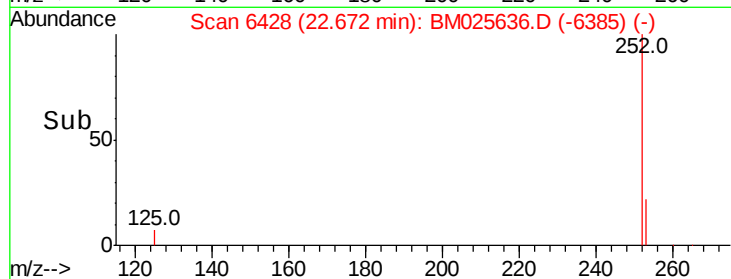
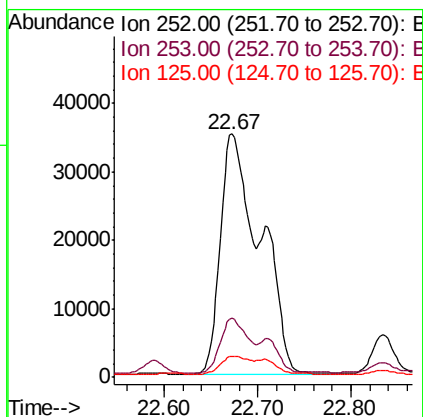
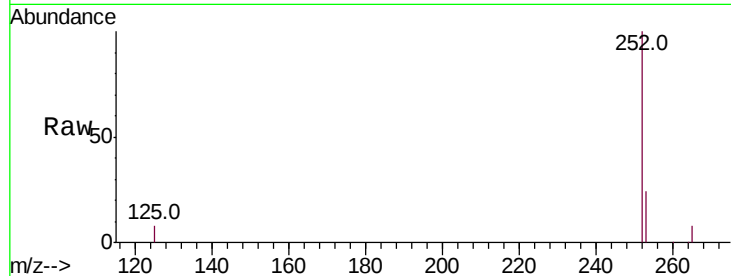




#22  
Benzo(k)fluoranthene  
Concen: 1.470 ng/u1  
RT: 22.67 min Scan# 6428  
Delta R.T. -0.05 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

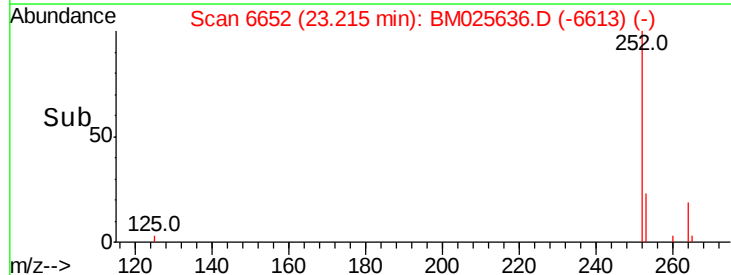
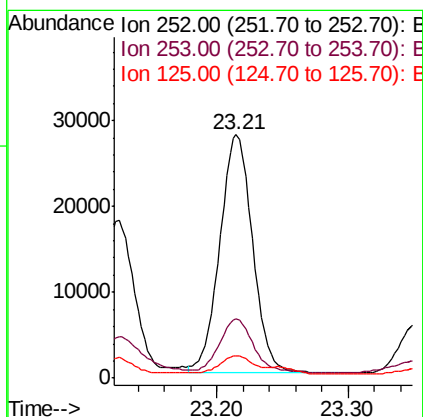
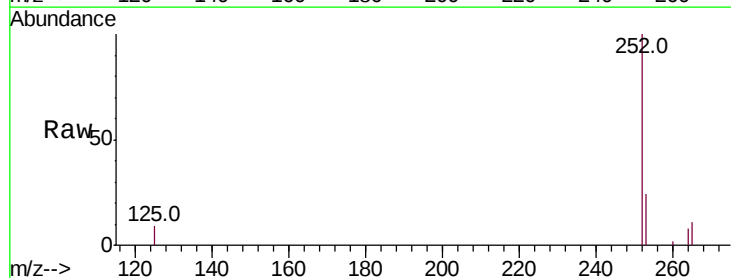
Instrument :  
BNA\_M  
ClientSampleId :

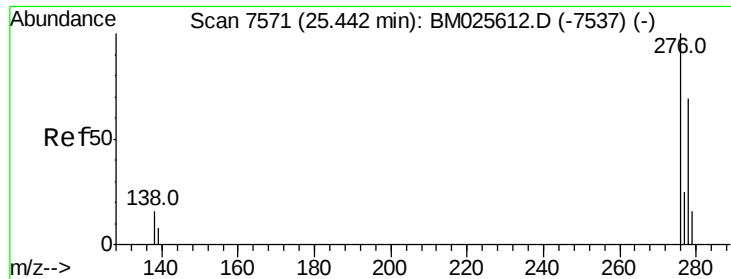
Tot Ion:252 Resp: 104339  
Ion Ratio Lower Upper  
252 100  
253 24.4 19.8 29.8  
125 8.5 7.1 10.7



#23  
Benzo(a)pyrene  
Concen: 0.870 ng/u1  
RT: 23.21 min Scan# 6652  
Delta R.T. -0.01 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

Tgt Ion:252 Resp: 48923  
Ion Ratio Lower Upper  
252 100  
253 24.5 21.3 31.9  
125 9.1 8.5 12.7



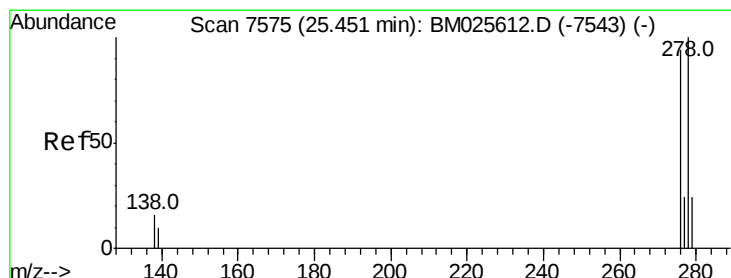
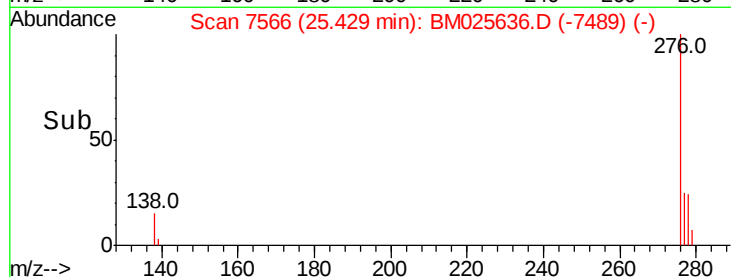
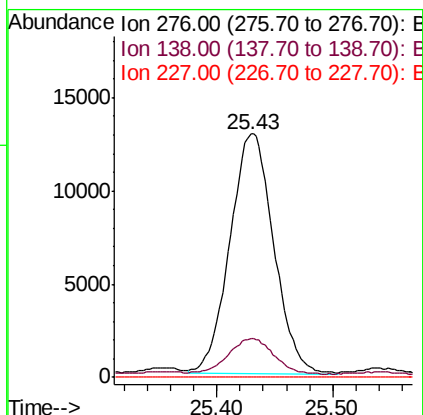
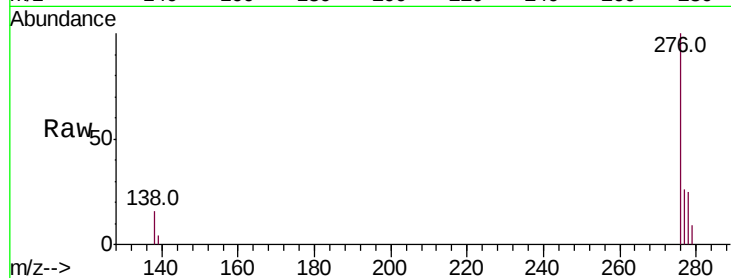


#24

Indeno(1,2,3-cd)pyrene  
Concen: 0.440 ng/ul  
RT: 25.43 min Scan# 7566  
Delta R.T. -0.01 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

Instrument :  
BNA\_M  
ClientSampleId :

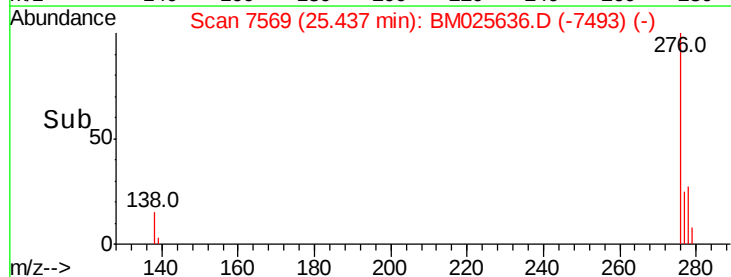
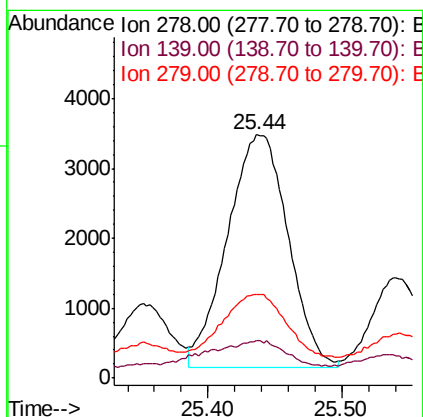
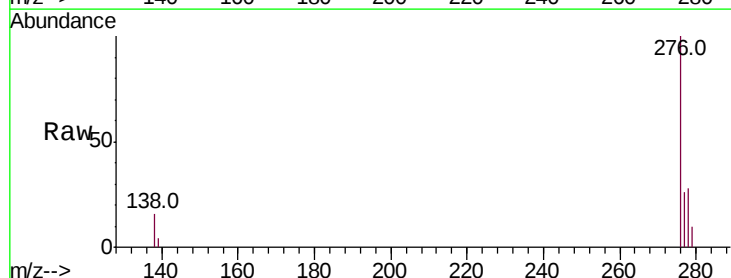
Tot Ion:276 Resp: 33601  
Ion Ratio Lower Upper  
276 100  
138 15.5 12.3 18.5  
227 0.0 0.0 0.0

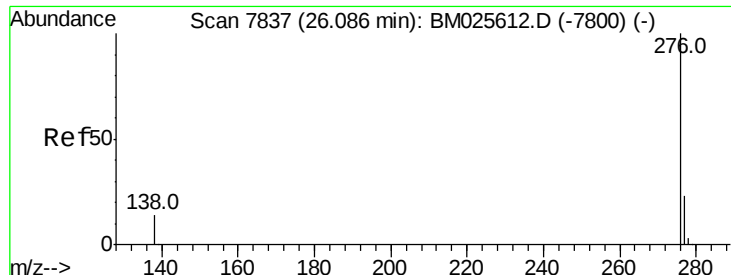


#25

Dibenzo(a,h)anthracene  
Concen: 0.164 ng/ul  
RT: 25.44 min Scan# 7569  
Delta R.T. -0.01 min  
Lab File: BM025636.D  
Acq: 18 Mar 2020 19:22

Tgt Ion:278 Resp: 10509  
Ion Ratio Lower Upper  
278 100  
139 15.3 9.0 13.6#  
279 34.4 21.1 31.7#





#26

Benzo(a,h,i)perylene

Concen: 0.364 ng/ul

RT: 26.08 min Scan# 7833

Delta R.T. -0.01 min

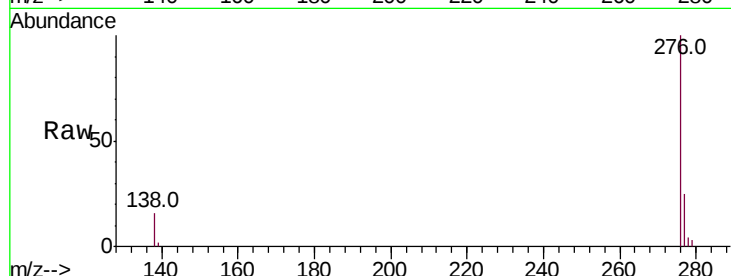
Lab File: BM025636.D

Acq: 18 Mar 2020 19:22

Instrument :

BNA\_M

ClientSampleId :



Tot Ion:276 Resp: 24111

Ion Ratio Lower Upper

276 100

138 15.8 11.0 16.4

277 24.7 19.8 29.6

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

