

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092415\  
 Data File : BM002723.D  
 Acq On : 24 Sep 2015 21:54  
 Operator : UM/IZ  
 Sample : SSTDC00.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.484

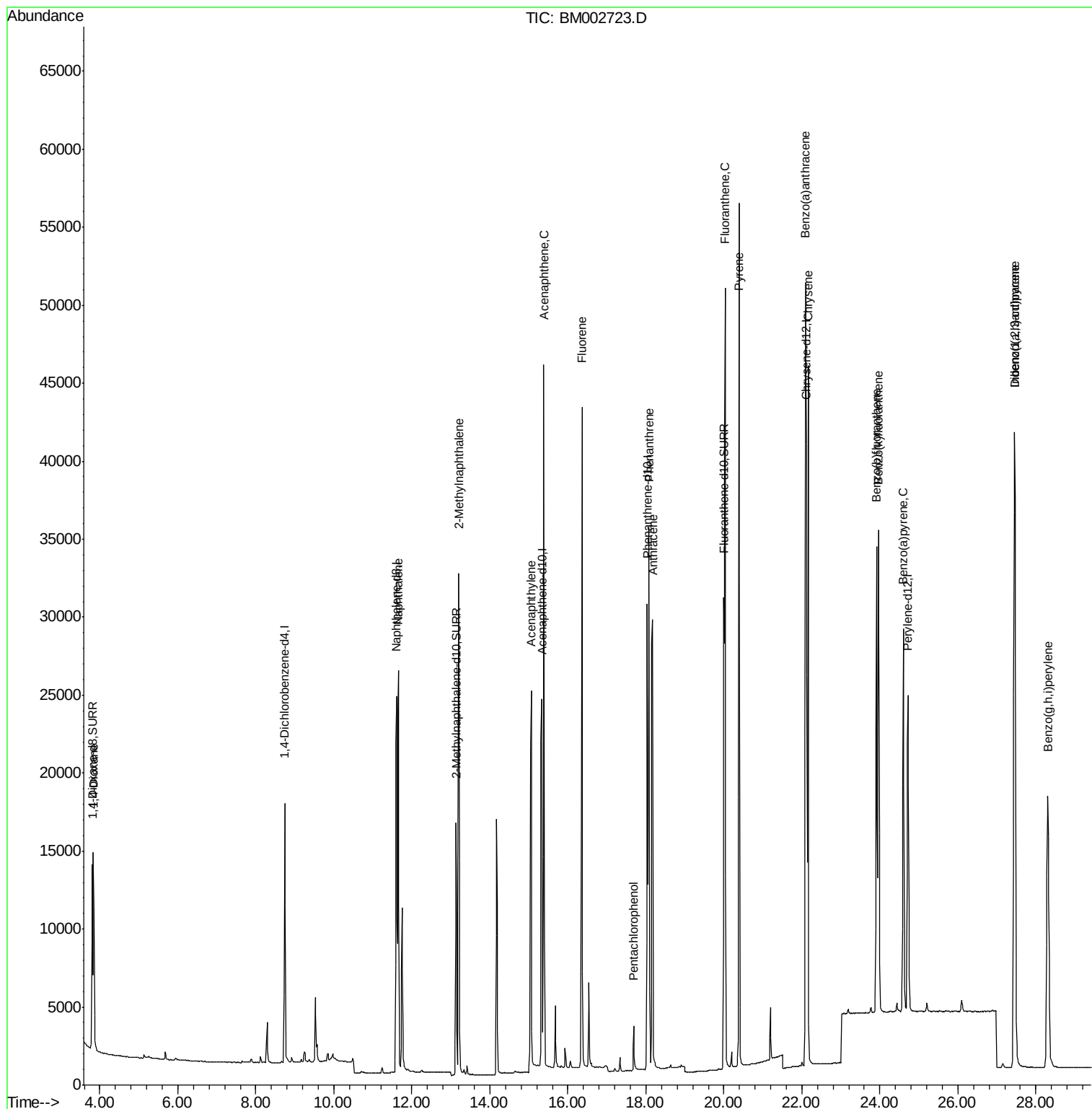
Quant Time: Sep 25 02:24:58 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 25 02:23:28 2015  
 Response via : Initial Calibration

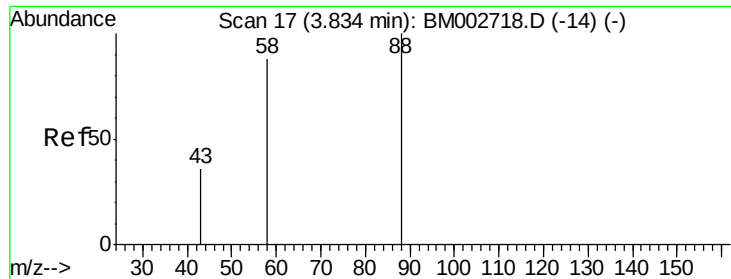
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.74  | 152  | 9974     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8           | 11.60 | 136  | 38041    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10         | 15.33 | 164  | 18371    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 18.03 | 188  | 37908    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12            | 22.12 | 240  | 35449    | 0.40 | ng/ul | -0.01    |
| 22) Perylene-d12            | 24.72 | 264  | 32008    | 0.40 | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 2) 1,4-Dioxane-d8           | 3.80  | 96   | 10292    | 1.00 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 13.13 | 152  | 20700    | 0.37 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 20.00 | 212  | 37519    | 0.40 | ng/ul | -0.01    |
| Target Compounds            |       |      |          |      |       | Ovalue   |
| 3) 1,4-Dioxane              | 3.83  | 88   | 11980    | 1.00 | ng/ul | 98       |
| 5) Naphthalene              | 11.65 | 128  | 40134    | 0.39 | ng/ul | 98       |
| 7) 2-Methylnaphthalene      | 13.20 | 142  | 26378    | 0.40 | ng/ul | 99       |
| 9) Acenaphthylene           | 15.06 | 152  | 36600    | 0.39 | ng/ul | 94       |
| 10) Acenaphthene            | 15.38 | 153  | 27446    | 0.40 | ng/ul | 90       |
| 11) Fluorene                | 16.36 | 166  | 30162    | 0.38 | ng/ul | 85       |
| 13) Pentachlorophenol       | 17.69 | 266  | 2626     | 0.35 | ng/ul | 96       |
| 14) Phenanthrene            | 18.08 | 178  | 45677    | 0.37 | ng/ul | 95       |
| 15) Anthracene              | 18.17 | 178  | 44296    | 0.39 | ng/ul | 95       |
| 17) Fluoranthene            | 20.03 | 202  | 51540    | 0.38 | ng/ul | 93       |
| 19) Pyrene                  | 20.39 | 202  | 52815    | 0.38 | ng/ul | 98       |
| 20) Benzo(a)anthracene      | 22.09 | 228  | 46594    | 0.39 | ng/ul | 98       |
| 21) Chrysene                | 22.16 | 228  | 45218    | 0.40 | ng/ul | 94       |
| 23) Benzo(b)fluoranthene    | 23.91 | 252  | 47186    | 0.41 | ng/ul | 99       |
| 24) Benzo(k)fluoranthene    | 23.96 | 252  | 42306    | 0.40 | ng/ul | 94       |
| 25) Benzo(a)pyrene          | 24.61 | 252  | 42754    | 0.40 | ng/ul | 96       |
| 26) Indeno(1,2,3-cd)pyrene  | 27.45 | 276  | 47635    | 0.40 | ng/ul | 99       |
| 27) Dibenzo(a,h)anthracene  | 27.45 | 278  | 38875    | 0.40 | ng/ul | 95       |
| 28) Benzo(g,h,i)perylene    | 28.31 | 276  | 40541    | 0.40 | ng/ul | 97       |

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

```
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Data File : BM002723.D  
Acq On    : 24 Sep 2015   21:54  
Operator  : UM/IZ  
Sample    : SSTCCC0.4  
Misc      :  
ALS Vial  : 2      Sample Multiplier: 1
```

Quant Time: Sep 25 02:24:58 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 25 02:23:28 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 1.00 ng/ul

RT: 3.83 min Scan# 17

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

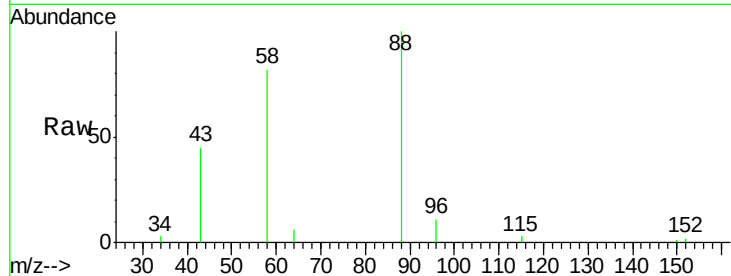
Tot Ion: 88 Resp: 11980

Ion Ratio Lower Upper

88 100

58 70.9 55.4 83.2

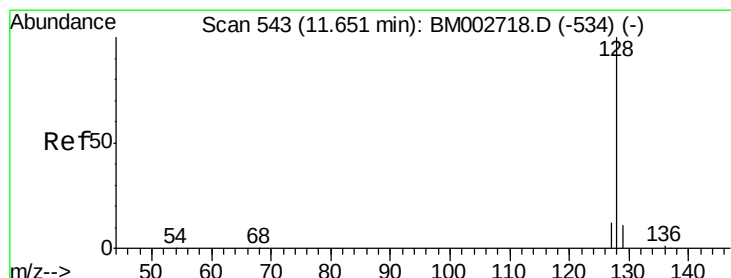
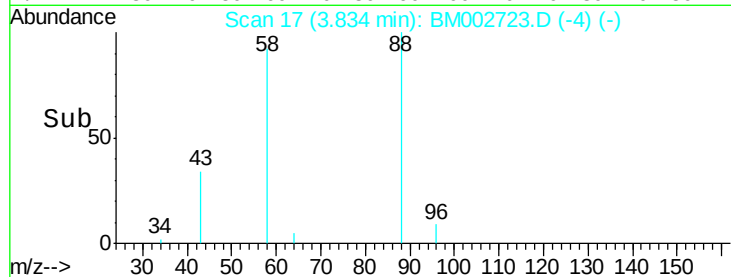
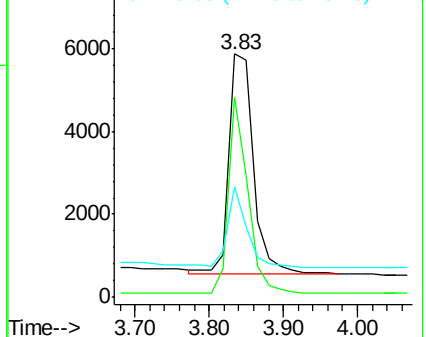
43 29.4 24.2 36.2



Abundance Ion 88.00 (87.70 to 88.70): BM002718.D (-14) (-)

Ion 58.00 (57.70 to 58.70): BM002718.D (-14) (-)

Ion 43.00 (42.70 to 43.70): BM002718.D (-14) (-)



#5

Naphthalene

Concen: 0.39 ng/ul

RT: 11.65 min Scan# 543

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

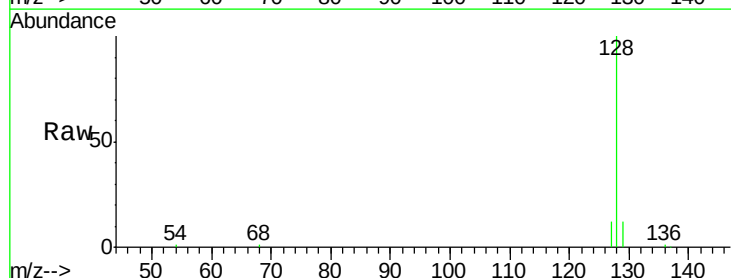
Tgt Ion: 128 Resp: 40134

Ion Ratio Lower Upper

128 100

129 11.7 9.8 14.8

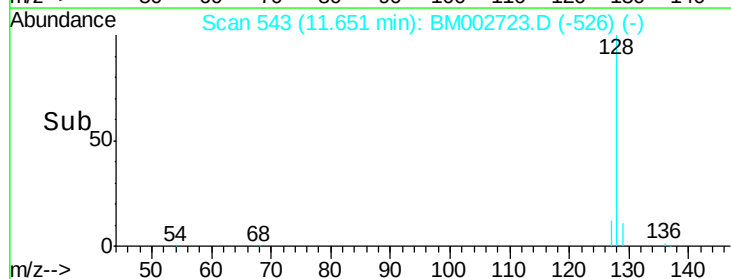
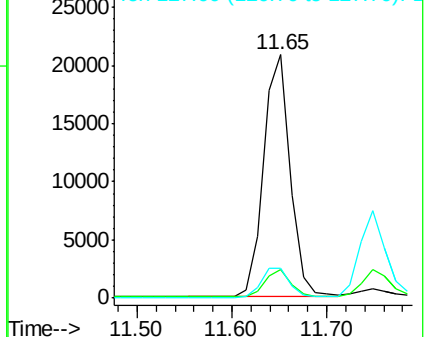
127 12.2 10.7 16.1

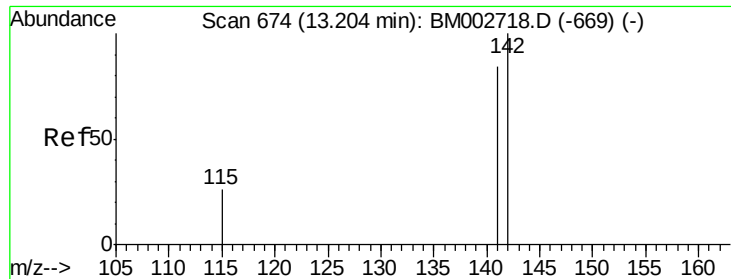


Abundance Ion 128.00 (127.70 to 128.70): BM002718.D (-534) (-)

Ion 129.00 (128.70 to 129.70): BM002718.D (-534) (-)

Ion 127.00 (126.70 to 127.70): BM002718.D (-534) (-)





#7

2-Methylnaphthalene

Concen: 0.40 ng/ul

RT: 13.20 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

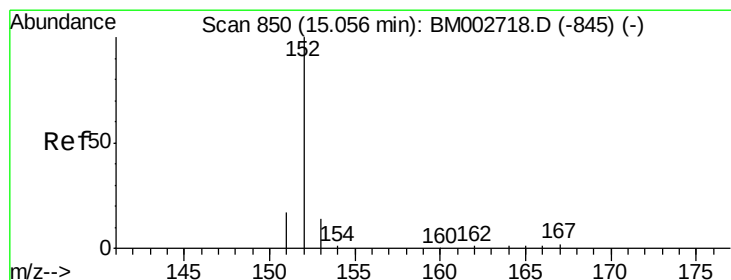
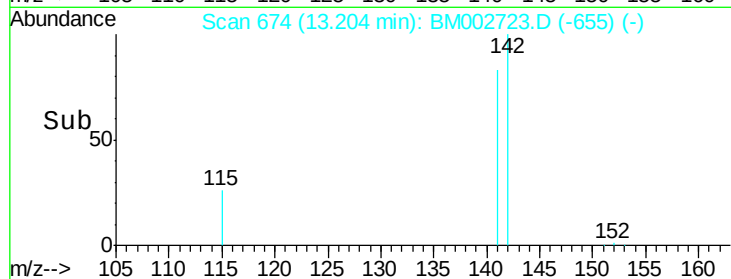
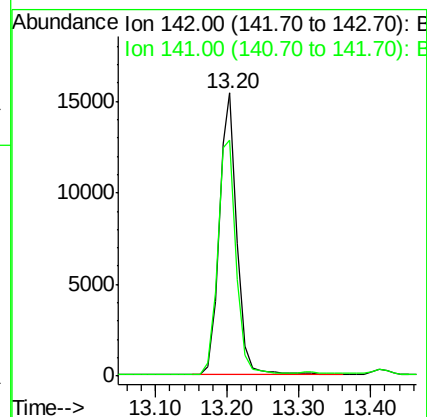
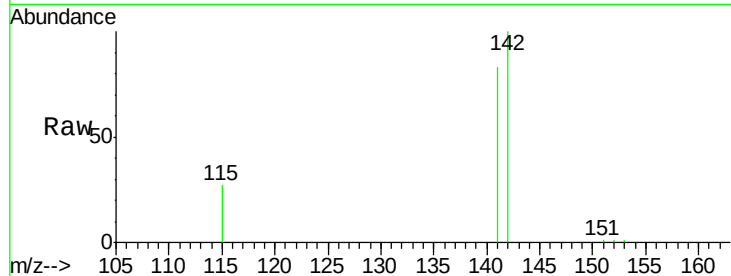
SSTD0.484

Tot Ion:142 Resp: 26378

Ion Ratio Lower Upper

142 100

141 88.4 70.3 105.5



#9

Acenaphthylene

Concen: 0.39 ng/ul

RT: 15.06 min Scan# 850

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

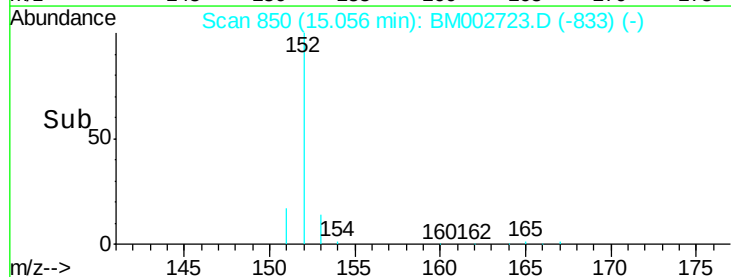
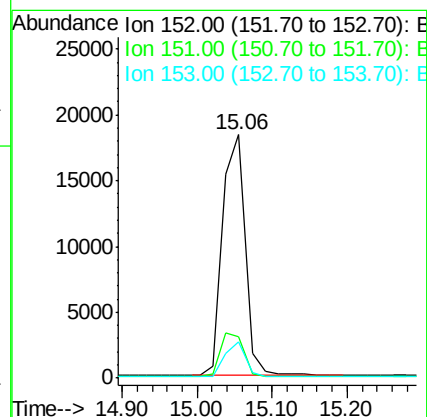
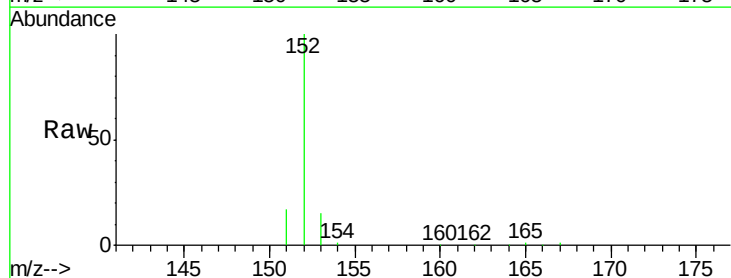
Tgt Ion:152 Resp: 36600

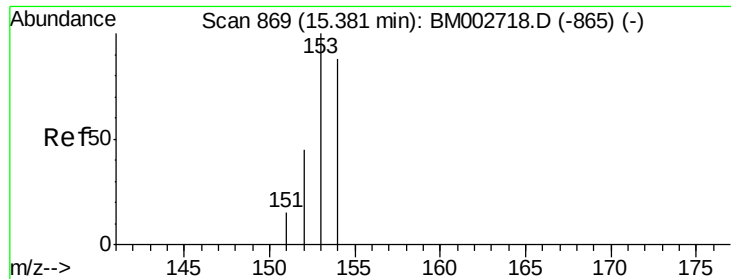
Ion Ratio Lower Upper

152 100

151 17.1 16.8 25.2

153 14.7 11.3 16.9





#10

Acenaphthene

Concen: 0.40 ng/ul

RT: 15.38 min Scan# 869

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

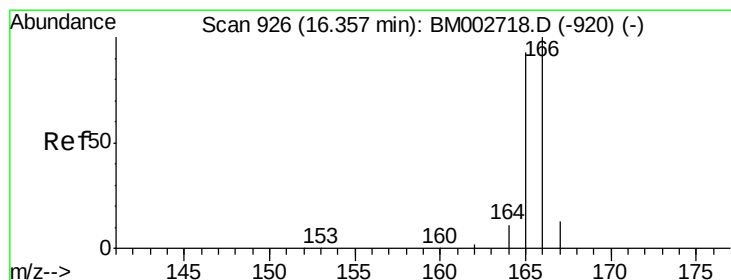
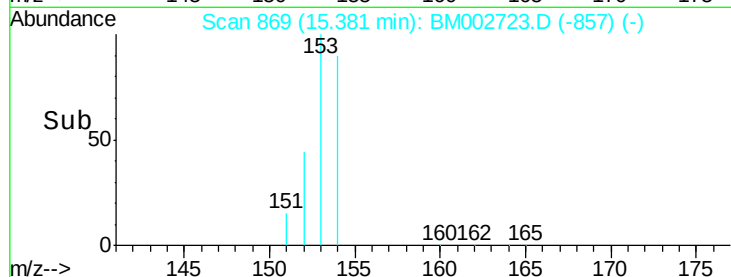
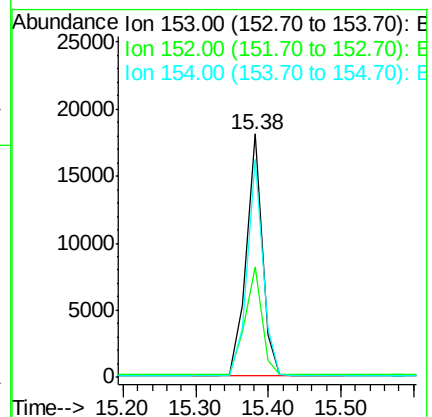
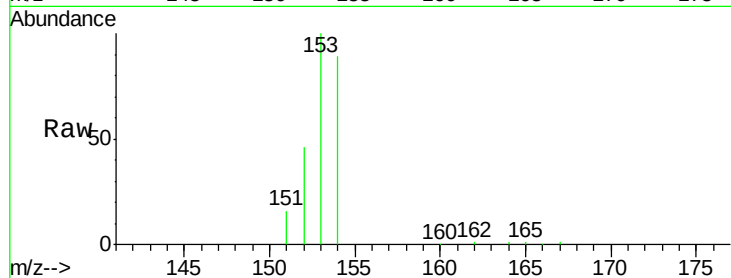
Tot Ion:153 Resp: 27446

Ion Ratio Lower Upper

153 100

152 45.6 42.3 63.5

154 89.4 64.7 97.1



#11

Fluorene

Concen: 0.38 ng/ul

RT: 16.36 min Scan# 926

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

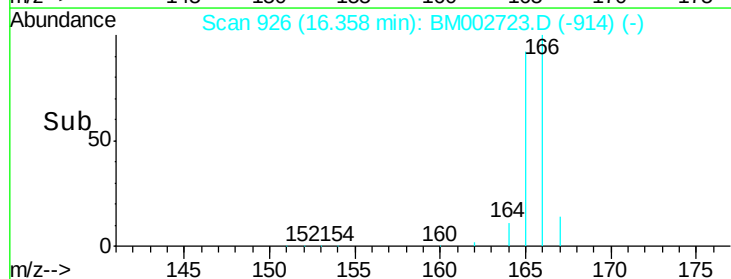
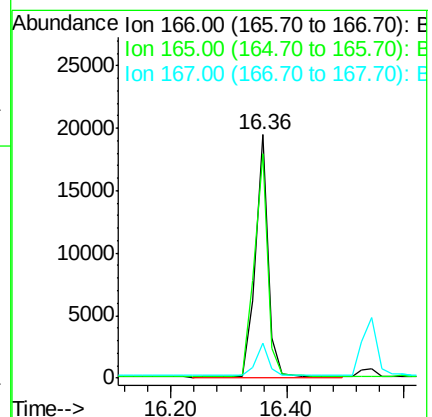
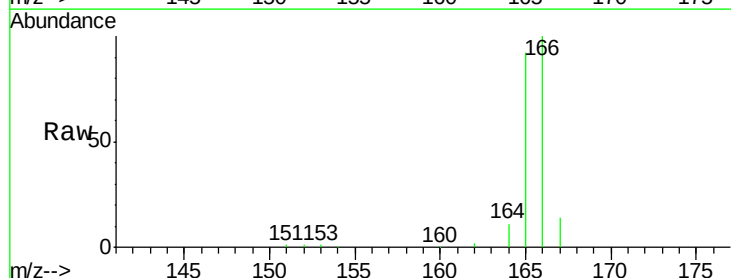
Tgt Ion:166 Resp: 30162

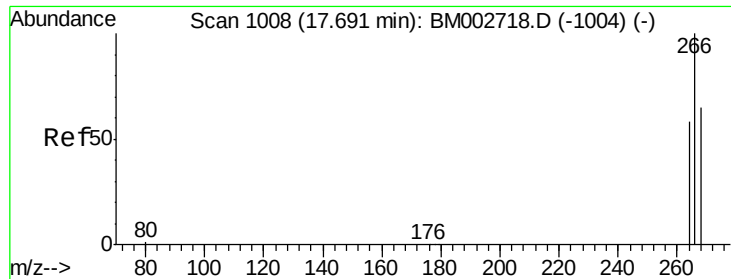
Ion Ratio Lower Upper

166 100

165 92.2 87.6 131.4

167 14.5 11.1 16.7

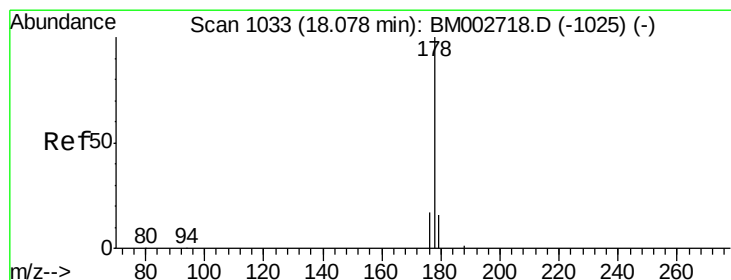
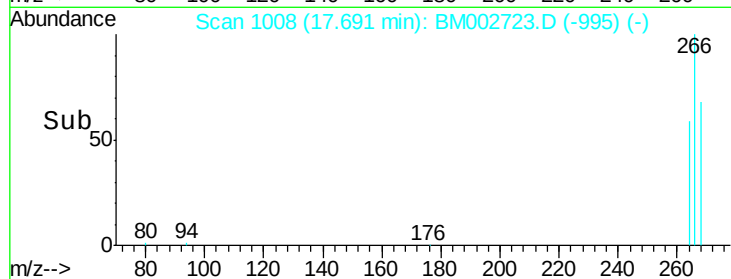
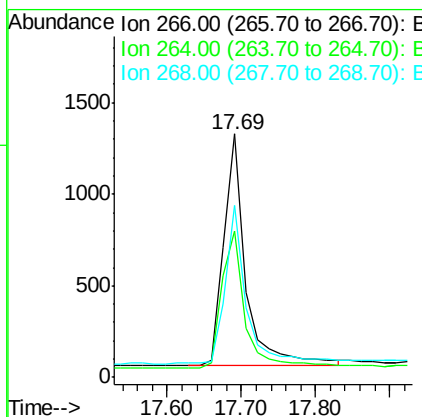
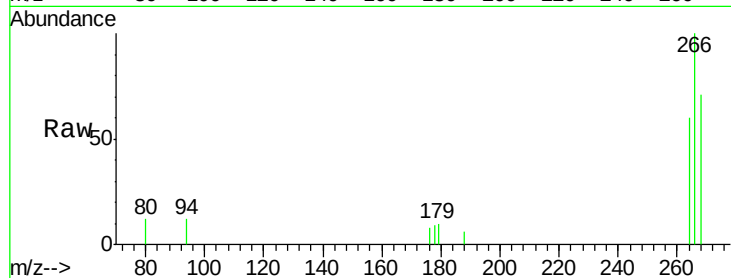




#13  
 Pentachlorophenol  
 Concen: 0.35 ng/ul  
 RT: 17.69 min Scan# 1008  
 Delta R.T. 0.00 min  
 Lab File: BM002723.D  
 Acq: 24 Sep 2015 21:54

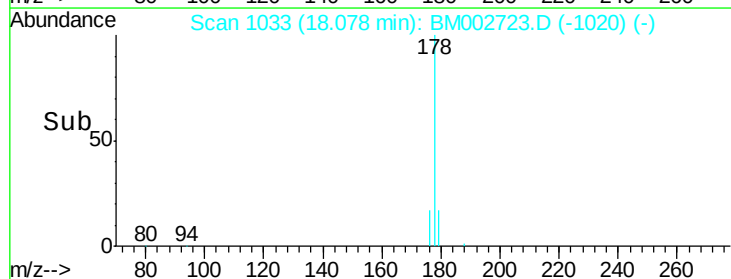
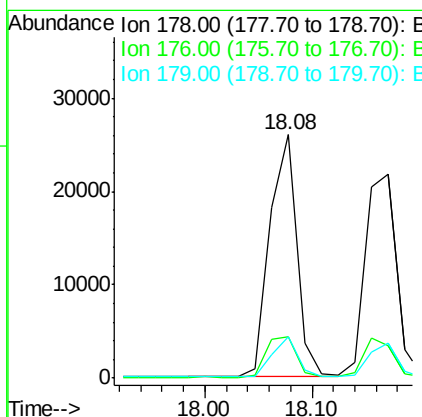
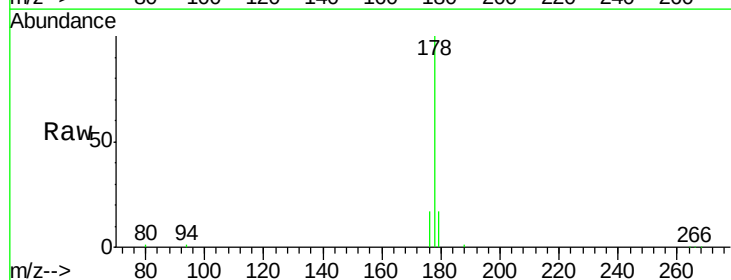
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.484

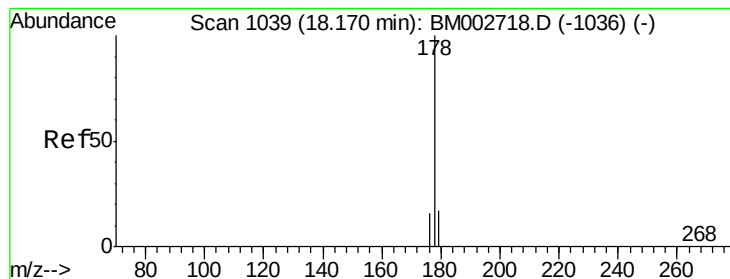
Tot Ion:266 Resp: 2626  
 Ion Ratio Lower Upper  
 266 100  
 264 62.6 53.5 80.3  
 268 65.3 54.2 81.2



#14  
 Phenanthrene  
 Concen: 0.37 ng/ul  
 RT: 18.08 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: BM002723.D  
 Acq: 24 Sep 2015 21:54

Tgt Ion:178 Resp: 45677  
 Ion Ratio Lower Upper  
 178 100  
 176 16.8 16.2 24.4  
 179 17.0 12.8 19.2





#15

Anthracene

Concen: 0.39 ng/ul

RT: 18.17 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

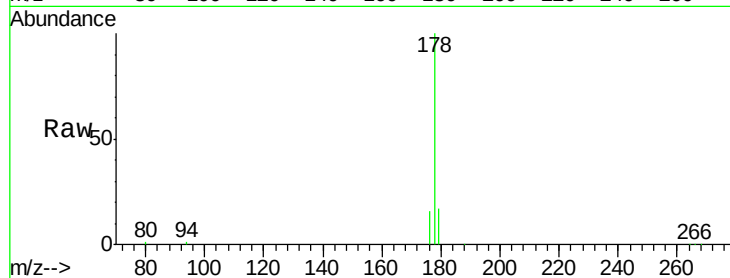
Tot Ion:178 Resp: 44296

Ion Ratio Lower Upper

178 100

176 16.2 15.8 23.8

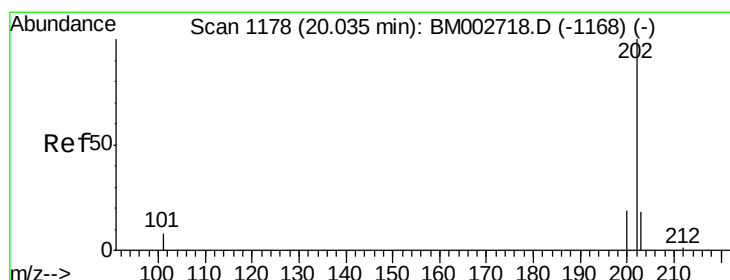
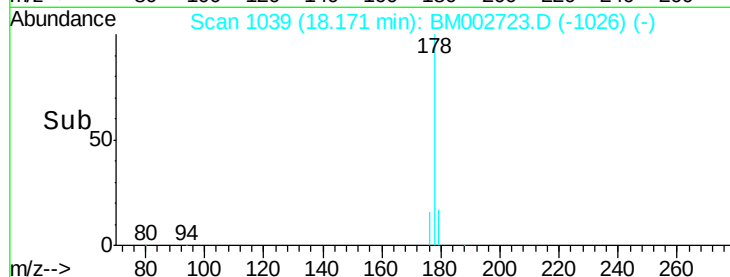
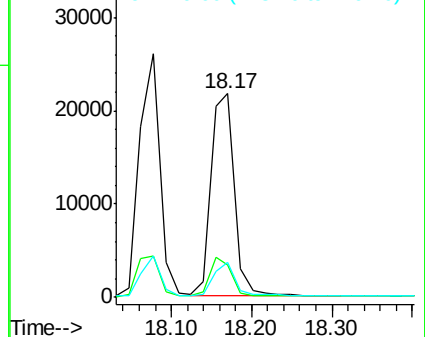
179 17.4 13.3 19.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#17

Fluoranthene

Concen: 0.38 ng/ul

RT: 20.03 min Scan# 1178

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

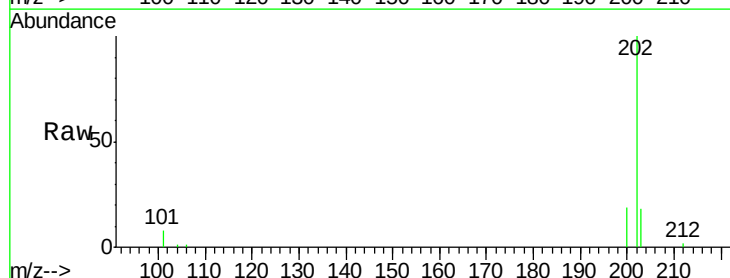
Tgt Ion:202 Resp: 51540

Ion Ratio Lower Upper

202 100

101 8.1 0.0 33.1

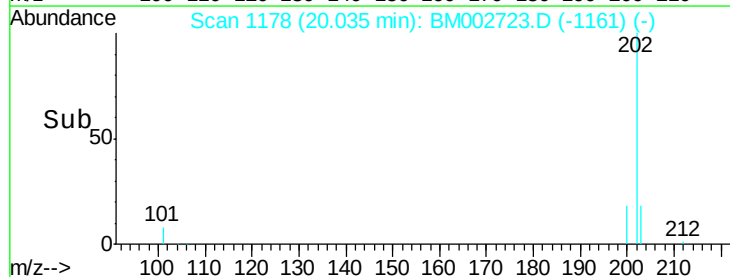
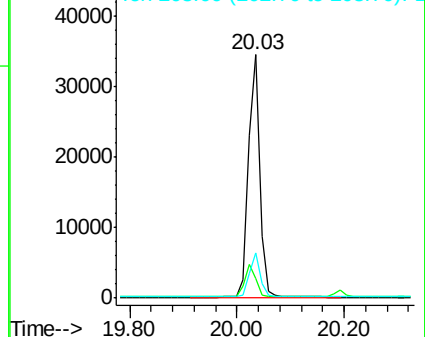
203 18.3 0.0 37.2

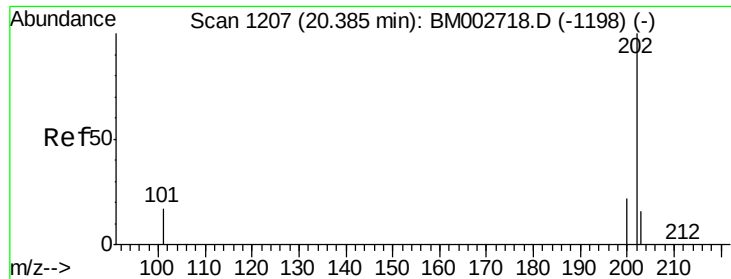


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

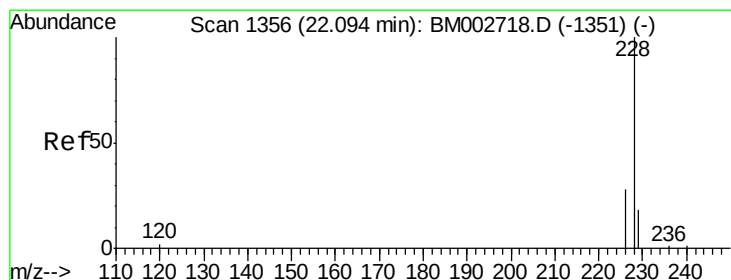
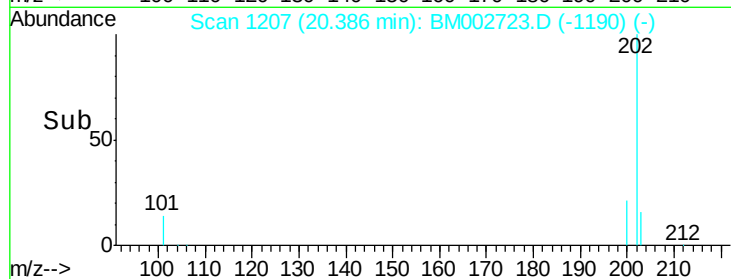
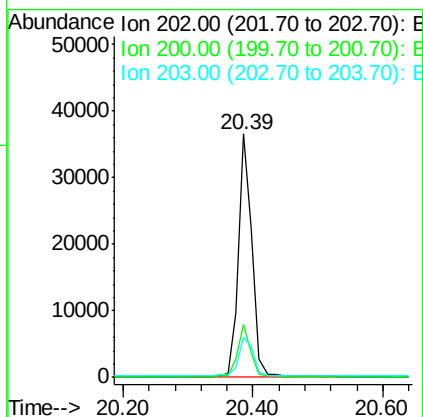
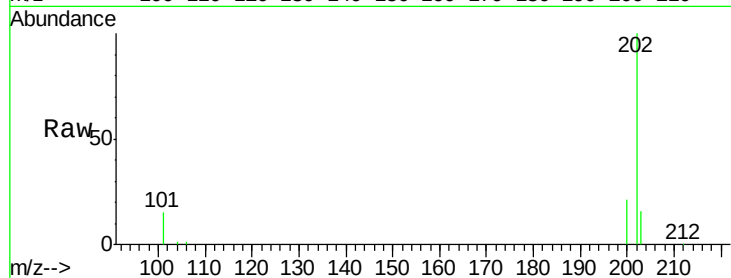




#19  
Pvrene  
Concen: 0.38 ng/ul  
RT: 20.39 min Scan# 1207  
Delta R.T. 0.00 min  
Lab File: BM002723.D  
Acq: 24 Sep 2015 21:54

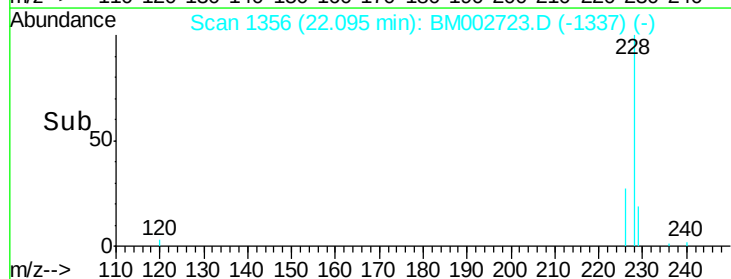
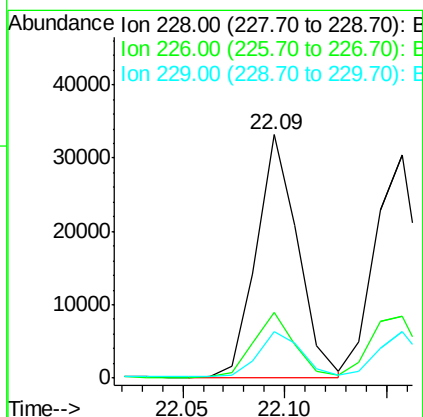
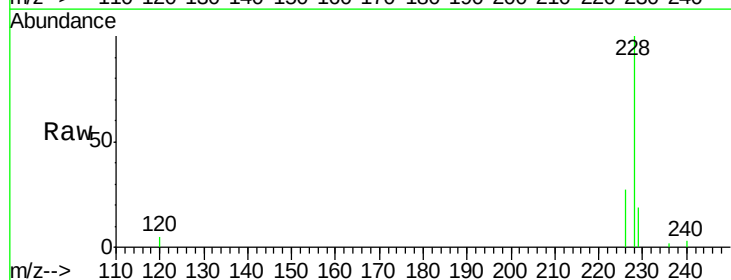
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.484

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 18.0  | 27.0  |
| 203     | 16.3  | 13.8  | 20.6  |

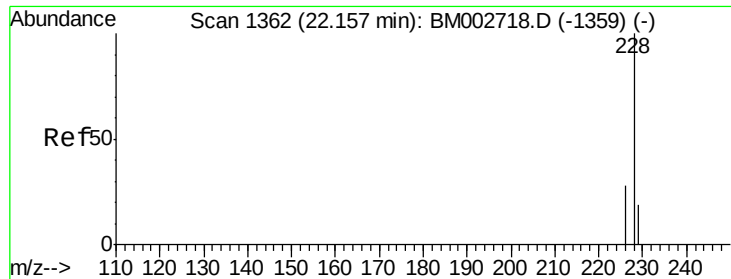


#20  
Benzo(a)anthracene  
Concen: 0.39 ng/ul  
RT: 22.09 min Scan# 1356  
Delta R.T. 0.00 min  
Lab File: BM002723.D  
Acq: 24 Sep 2015 21:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 23.0  | 34.4  |
| 229     | 19.0  | 15.2  | 22.8  |







#21

Chrysene

Concen: 0.40 ng/ul

RT: 22.16 min Scan# 1362

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

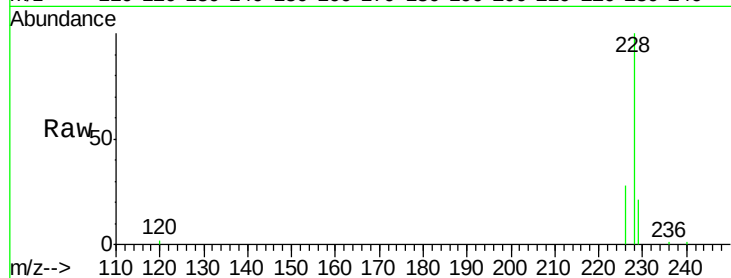
Tot Ion:228 Resp: 45218

Ion Ratio Lower Upper

228 100

226 27.6 25.7 38.5

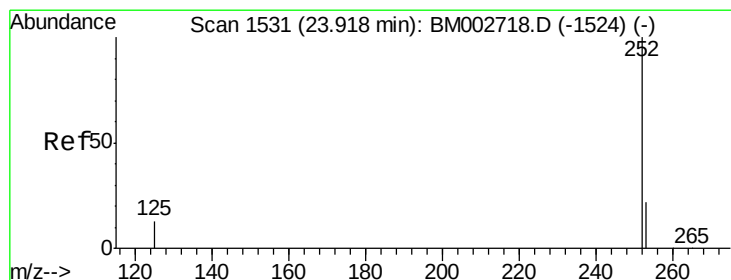
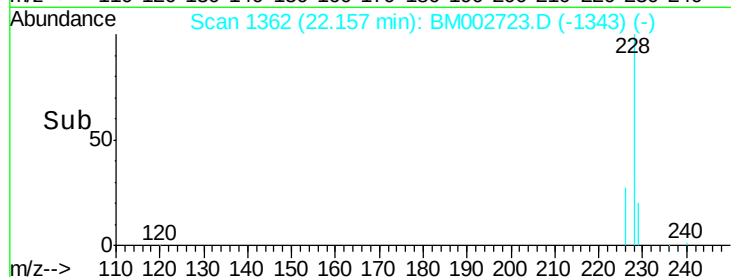
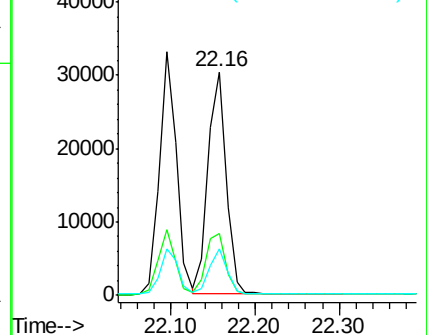
229 20.6 15.2 22.8



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: 0.41 ng/ul

RT: 23.91 min Scan# 1530

Delta R.T. -0.01 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

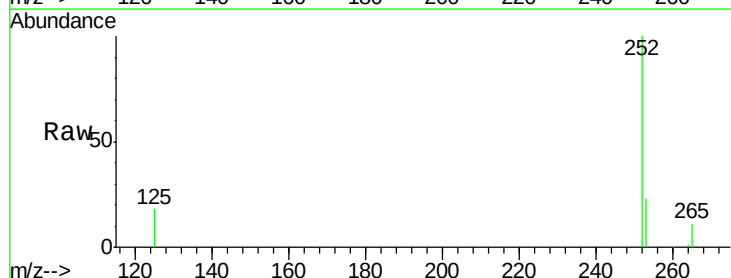
Tgt Ion:252 Resp: 47186

Ion Ratio Lower Upper

252 100

253 23.2 0.0 48.0

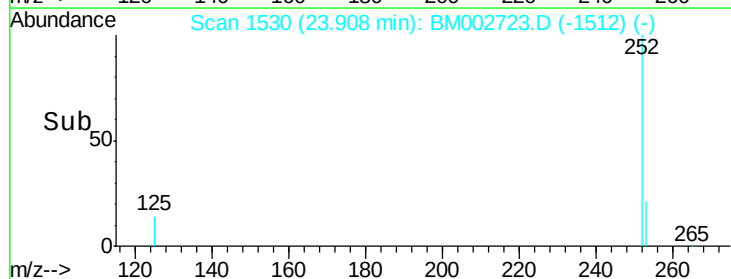
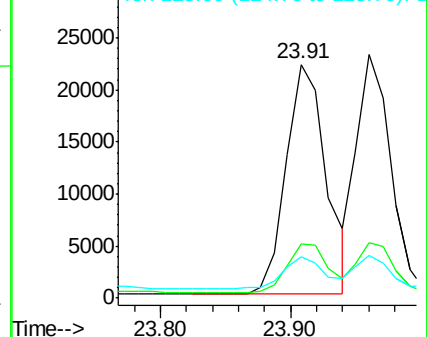
125 18.0 0.0 36.6

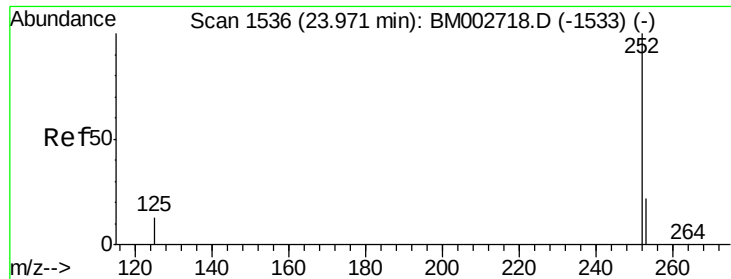


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.40 ng/ul

RT: 23.96 min Scan# 1535

Delta R.T. -0.01 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

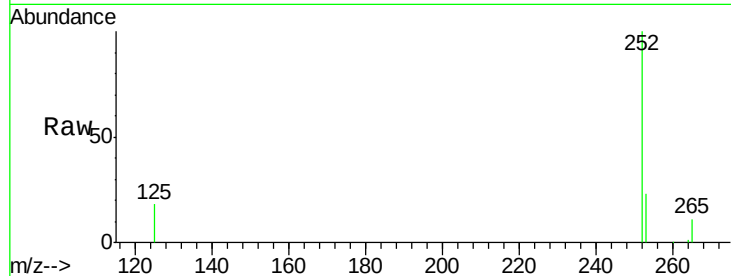
Tot Ion:252 Resp: 42306

Ion Ratio Lower Upper

252 100

253 22.9 20.8 31.2

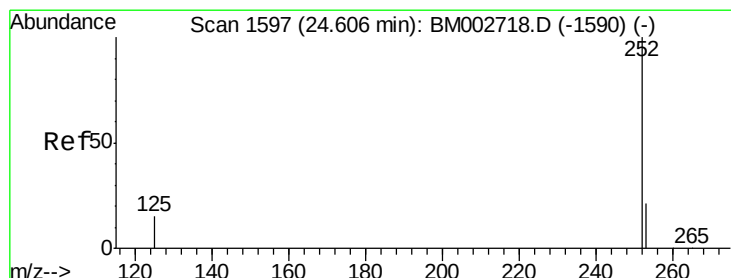
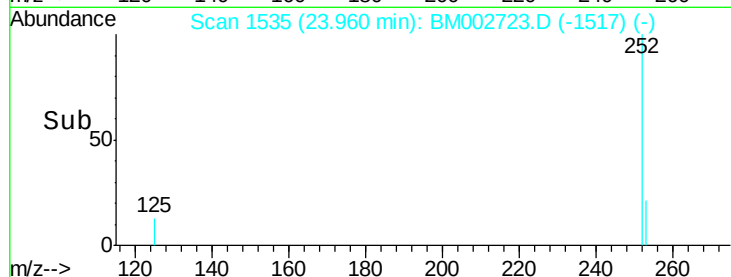
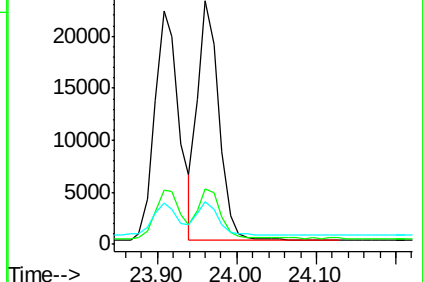
125 17.6 12.2 18.4



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



#25

Benzo(a)pyrene

Concen: 0.40 ng/ul

RT: 24.61 min Scan# 1597

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

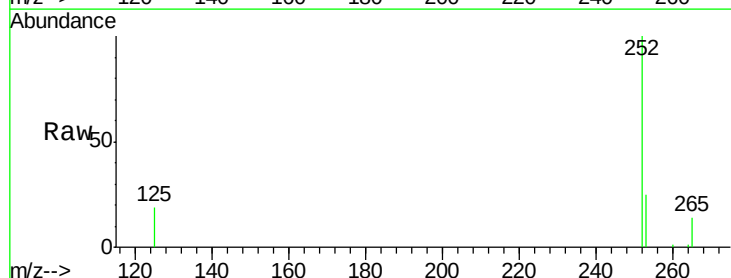
Tgt Ion:252 Resp: 42754

Ion Ratio Lower Upper

252 100

253 25.0 21.8 32.8

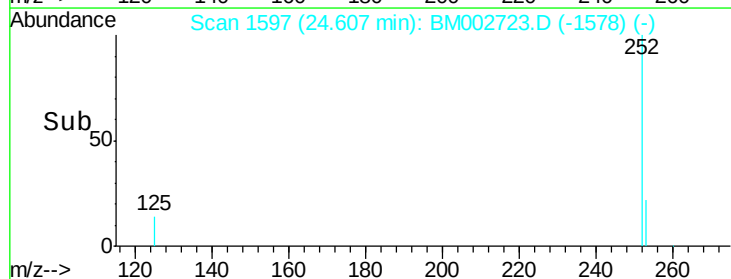
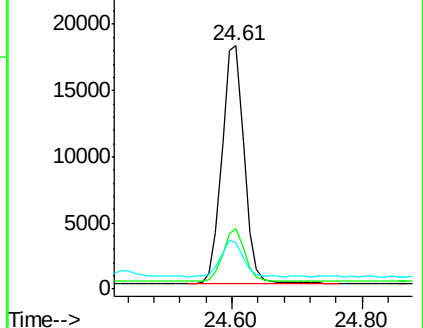
125 19.0 14.5 21.7

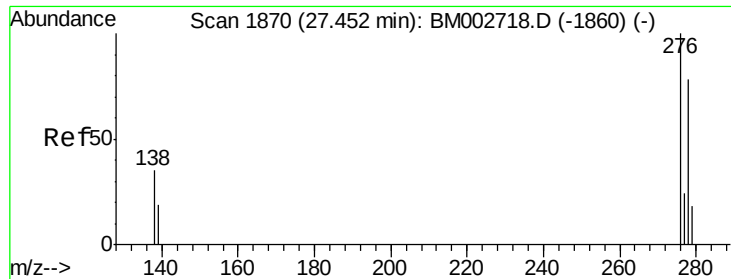


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

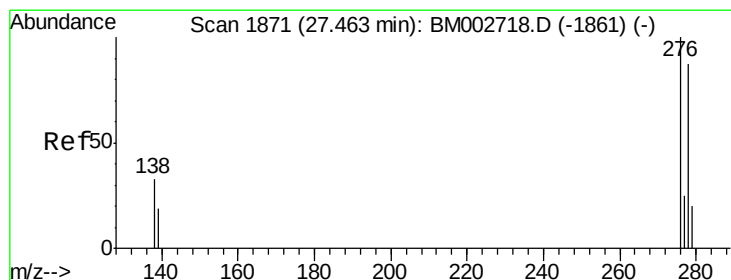
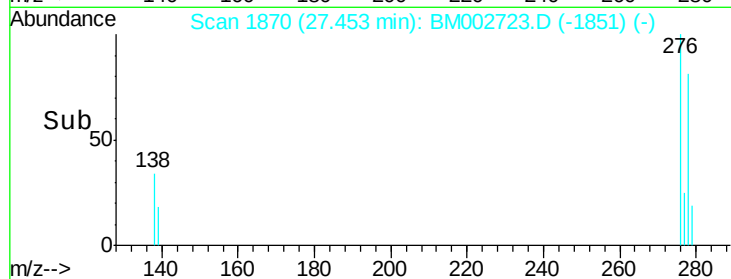
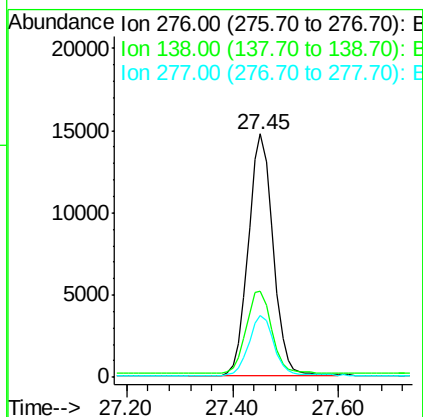
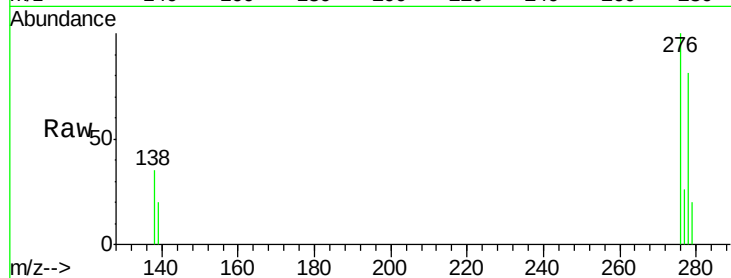




#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.40 ng/ul  
 RT: 27.45 min Scan# 1870  
 Delta R.T. 0.00 min  
 Lab File: BM002723.D  
 Acq: 24 Sep 2015 21:54

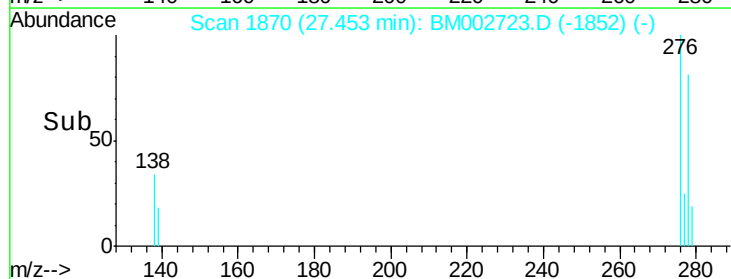
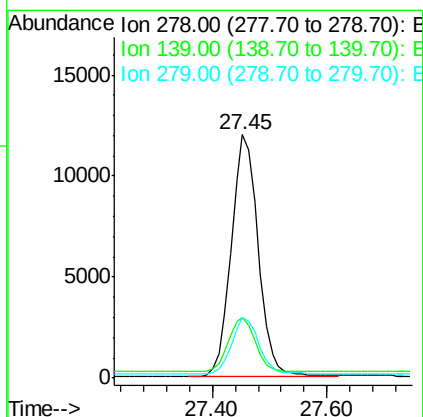
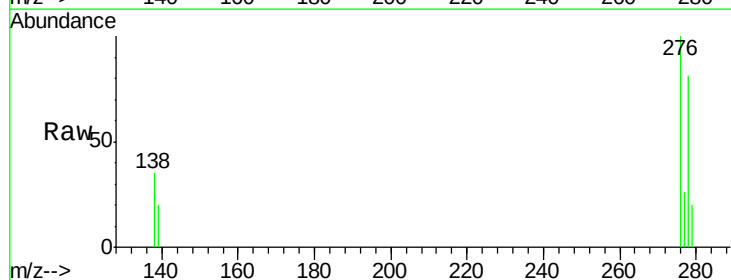
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.484

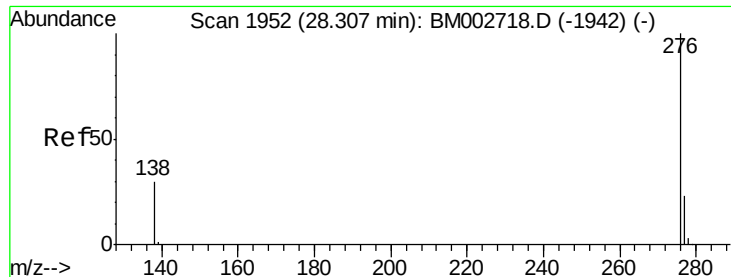
Tot Ion:276 Resp: 47635  
 Ion Ratio Lower Upper  
 276 100  
 138 34.8 27.5 41.3  
 277 24.8 19.3 28.9



#27  
 Dibenzo(a,h)anthracene  
 Concen: 0.40 ng/ul  
 RT: 27.45 min Scan# 1870  
 Delta R.T. -0.01 min  
 Lab File: BM002723.D  
 Acq: 24 Sep 2015 21:54

Tgt Ion:278 Resp: 38875  
 Ion Ratio Lower Upper  
 278 100  
 139 24.8 21.7 32.5  
 279 24.7 21.9 32.9





#28

Benzo(a,h,i)perylene

Concen: 0.40 ng/ul

RT: 28.31 min Scan# 1952

Delta R.T. 0.00 min

Lab File: BM002723.D

Acq: 24 Sep 2015 21:54

Instrument :

BNA\_M

ClientSampleId :

SSTD0.484

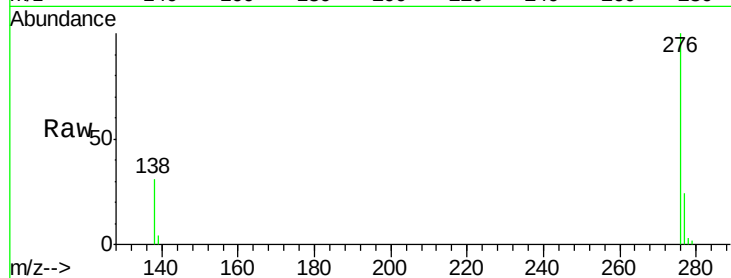
Tot Ion: 276 Resp: 40541

Ion Ratio Lower Upper

276 100

277 24.4 21.3 31.9

138 30.7 25.5 38.3



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

