

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120916\  
 Data File : BM008223.D  
 Acq On : 10 Dec 2016 01:53  
 Operator : E  
 Sample : SSTDCCC0.4EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.438

Quant Time: Dec 10 04:42:17 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 10 04:37:00 2016  
 Response via : Initial Calibration

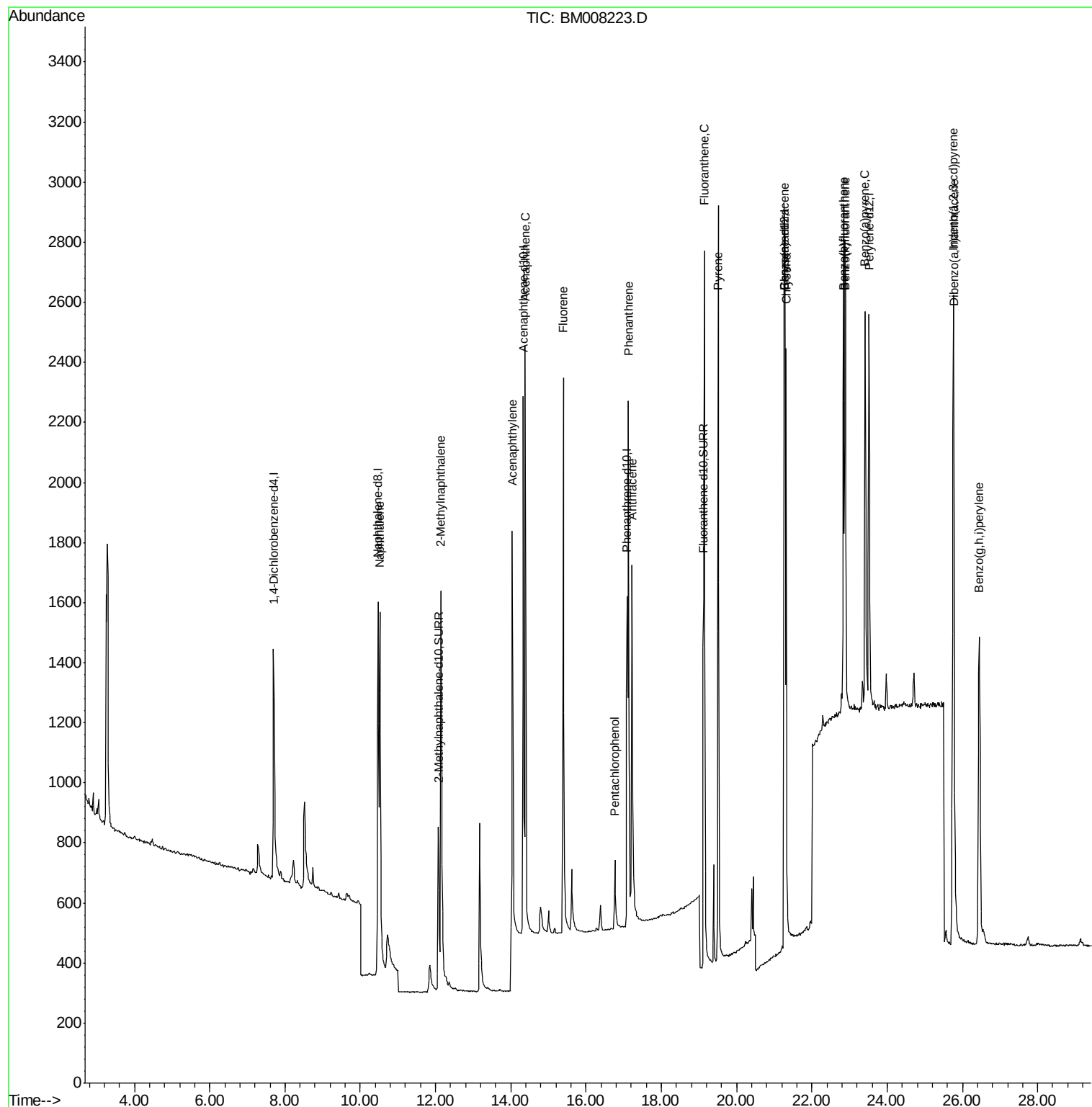
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.70  | 152  | 665      | 0.40   | ng/ul  | -0.03    |
| 2) Naphthalene-d8           | 10.48 | 136  | 2215     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.33 | 164  | 1223     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.09 | 188  | 1966     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.28 | 240  | 1774     | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.52 | 264  | 1797     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.08 | 152  | 1112     | 0.35   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.13 | 212  | 2111     | 0.38   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.52 | 128  | 2166     | 0.35   | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 12.14 | 142  | 1397     | 0.35   | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.04 | 152  | 1998     | 0.36   | ng/ul  | 96       |
| 8) Acenaphthene             | 14.38 | 153  | 1443     | 0.34   | ng/ul  | 92       |
| 9) Fluorene                 | 15.39 | 166  | 1578     | 0.33   | ng/ul  | 93       |
| 11) Pentachlorophenol       | 16.76 | 266  | 237      | 0.35   | ng/ul  | 93       |
| 12) Phenanthrene            | 17.12 | 178  | 2227     | 0.36   | ng/ul  | 97       |
| 13) Anthracene              | 17.23 | 178  | 2213     | 0.38   | ng/ul  | 96       |
| 15) Fluoranthene            | 19.15 | 202  | 3665     | 0.46   | ng/ul  | 98       |
| 17) Pyrene                  | 19.51 | 202  | 2691     | 0.44   | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.27 | 228  | 2216     | 0.41   | ng/ul  | 96       |
| 19) Chrysene                | 21.32 | 228  | 2279     | 0.34   | ng/ul  | 94       |
| 21) Benzo(b)fluoranthene    | 22.84 | 252  | 2315     | 0.32   | ng/ul  | 96       |
| 22) Benzo(k)fluoranthene    | 22.88 | 252  | 2432     | 0.33   | ng/ul  | 96       |
| 23) Benzo(a)pyrene          | 23.41 | 252  | 2373     | 0.35   | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.76 | 276  | 2857     | 0.34   | ng/ul# | 93       |
| 25) Dibenzo(a,h)anthracene  | 25.77 | 278  | 2288     | 0.34   | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 26.45 | 276  | 2449     | 0.33   | ng/ul  | 94       |

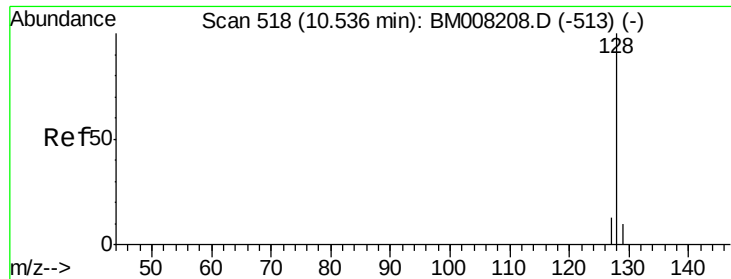
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120916\  
Data File : BM008223.D  
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Operator : E  
Sample : SSTDCCC0.4EC  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.438

Quant Time: Dec 10 04:42:17 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 10 04:37:00 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.35 ng/ul

RT: 10.52 min Scan# 517

Delta R.T. -0.01 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

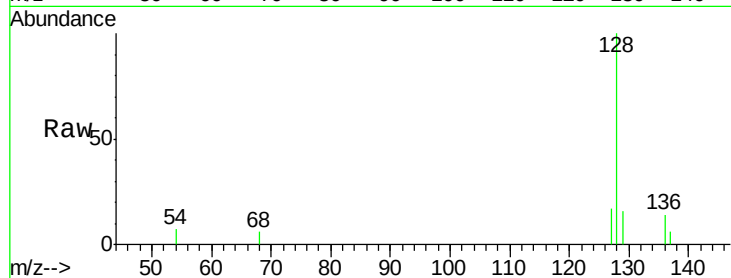
Tgt Ion:128 Resp: 2166

Ion Ratio Lower Upper

128 100

129 15.8 11.3 16.9

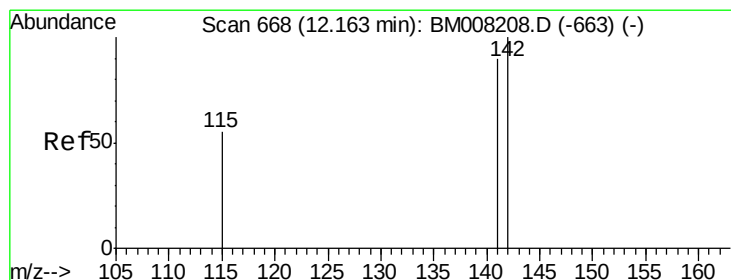
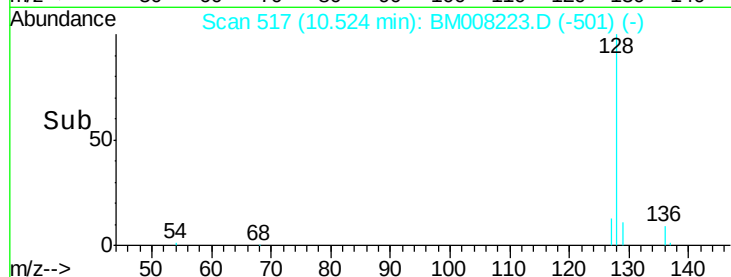
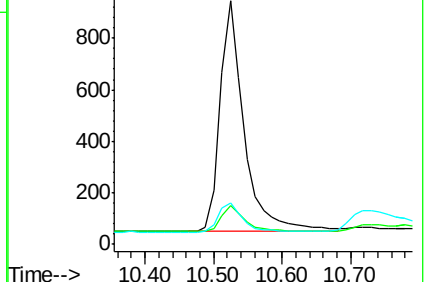
127 17.1 12.8 19.2



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: 0.35 ng/ul

RT: 12.14 min Scan# 666

Delta R.T. -0.02 min

Lab File: BM008223.D

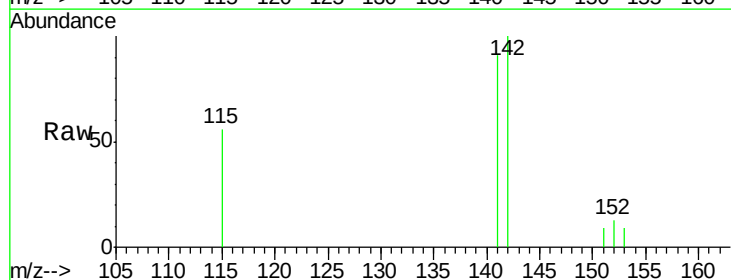
Acq: 10 Dec 2016 01:53

Tgt Ion:142 Resp: 1397

Ion Ratio Lower Upper

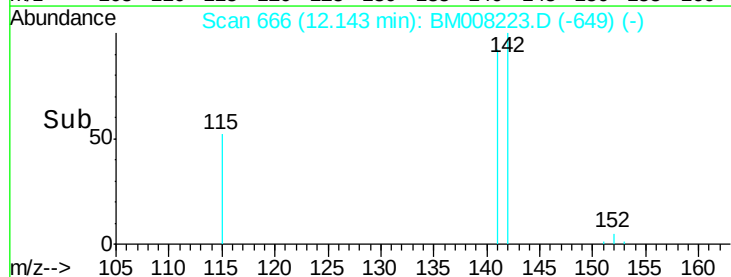
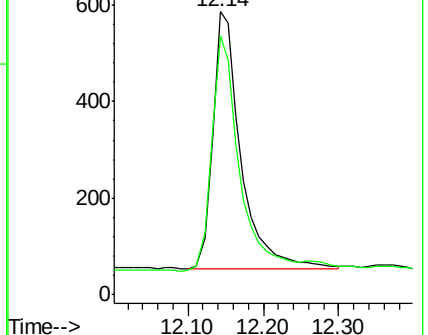
142 100

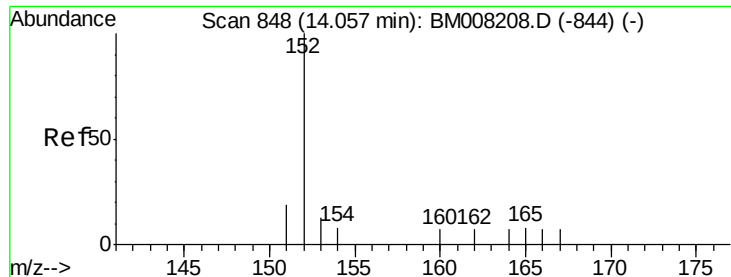
141 93.2 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.36 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

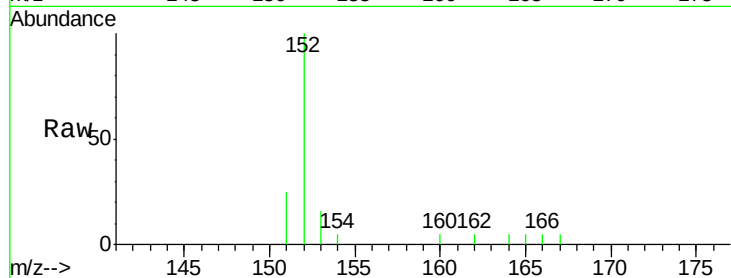
Tgt Ion:152 Resp: 1998

Ion Ratio Lower Upper

152 100

151 24.6 17.1 25.7

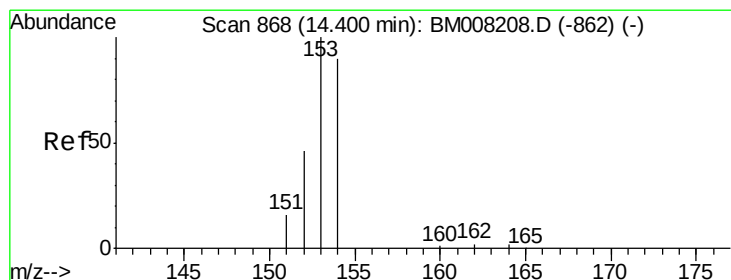
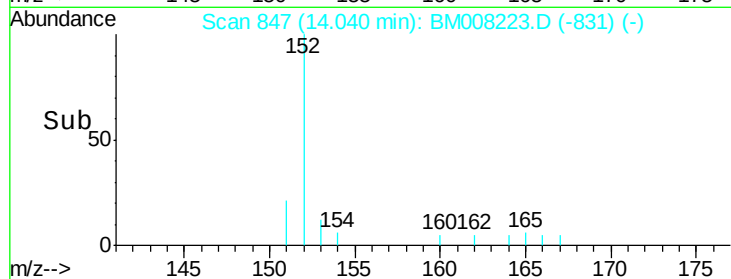
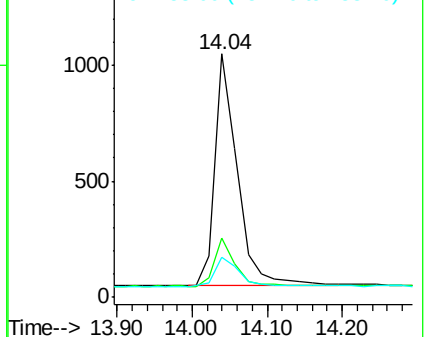
153 16.3 12.8 19.2



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: 0.34 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

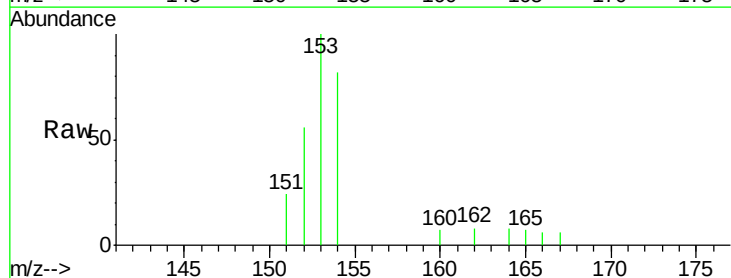
Tgt Ion:153 Resp: 1443

Ion Ratio Lower Upper

153 100

152 55.7 40.3 60.5

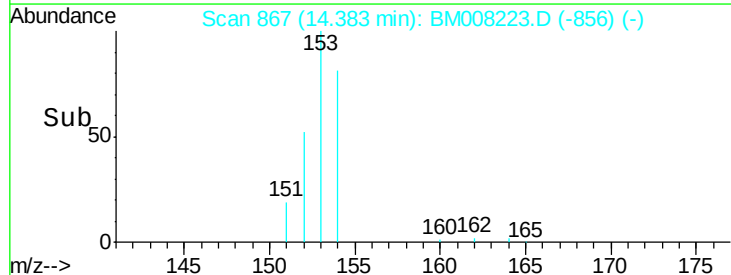
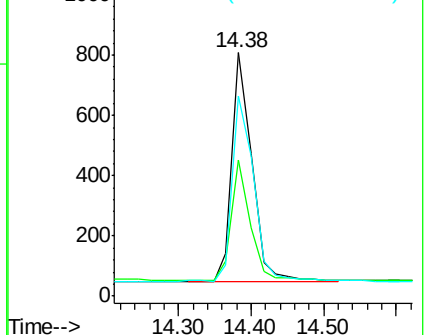
154 81.9 71.4 107.2

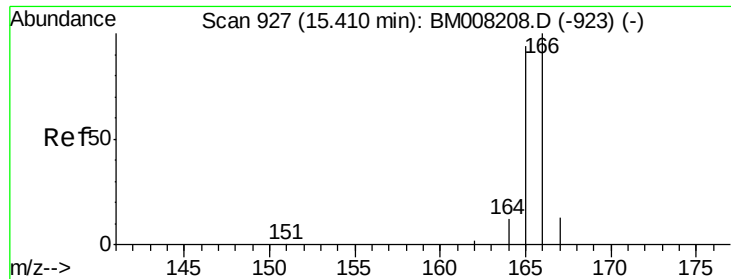


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

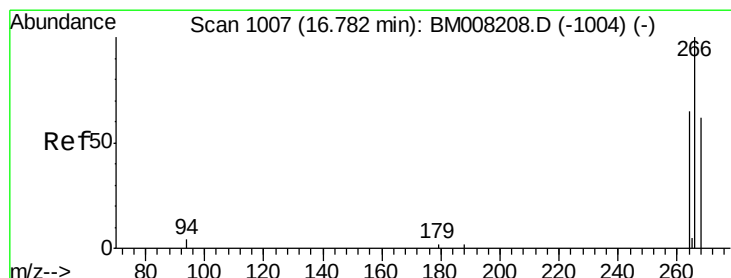
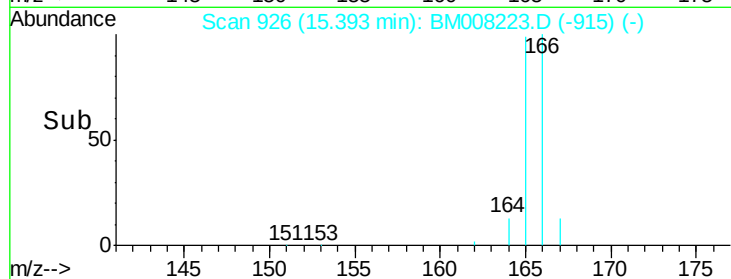
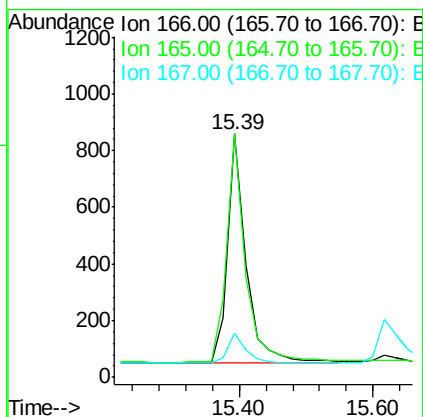
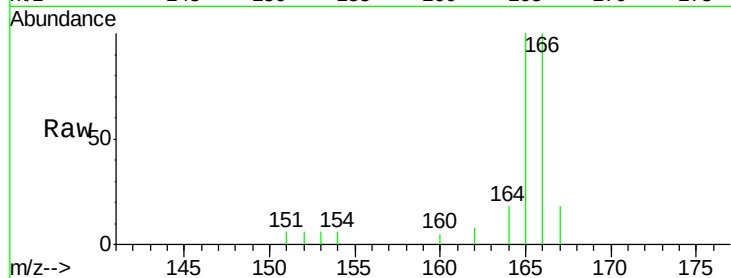




#9  
**Fluorene**  
 Concen: 0.33 ng/ul  
 RT: 15.39 min Scan# 926  
 Delta R.T. -0.02 min  
 Lab File: BM008223.D  
 Acq: 10 Dec 2016 01:53

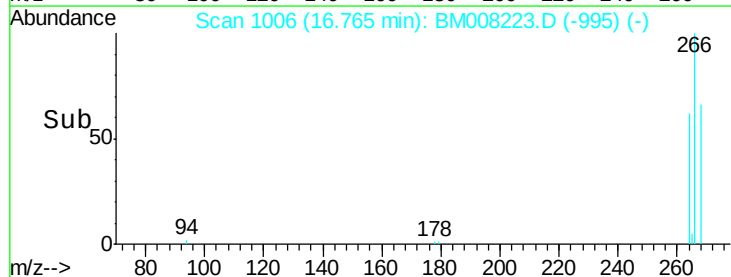
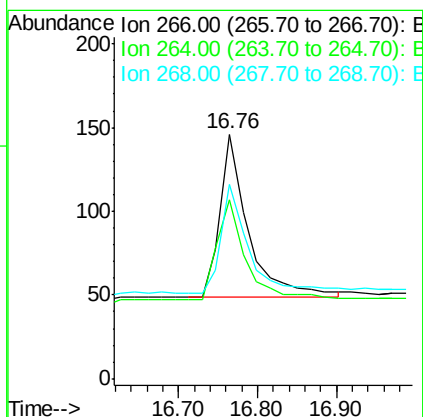
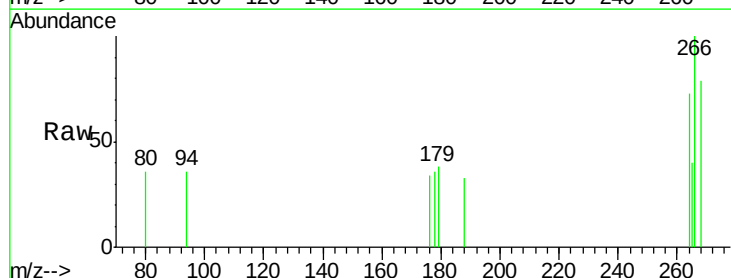
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.438

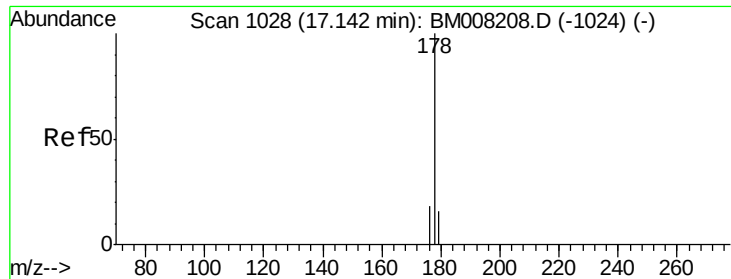
Tgt Ion:166 Resp: 1578  
 Ion Ratio Lower Upper  
 166 100  
 165 99.9 73.4 110.2  
 167 18.2 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.35 ng/ul  
 RT: 16.76 min Scan# 1006  
 Delta R.T. -0.02 min  
 Lab File: BM008223.D  
 Acq: 10 Dec 2016 01:53

Tgt Ion:266 Resp: 237  
 Ion Ratio Lower Upper  
 266 100  
 264 64.1 47.9 71.9  
 268 68.8 49.8 74.8





#12

Phenanthrene

Concen: 0.36 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

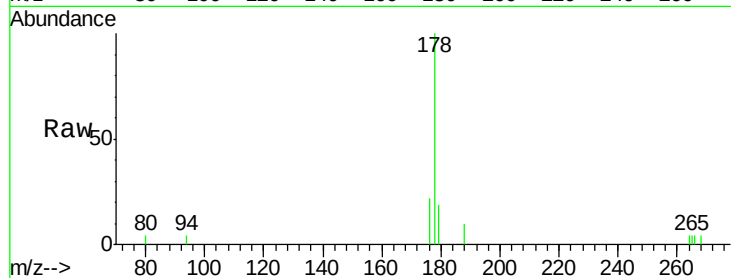
Tgt Ion:178 Resp: 2227

Ion Ratio Lower Upper

178 100

176 22.2 18.4 27.6

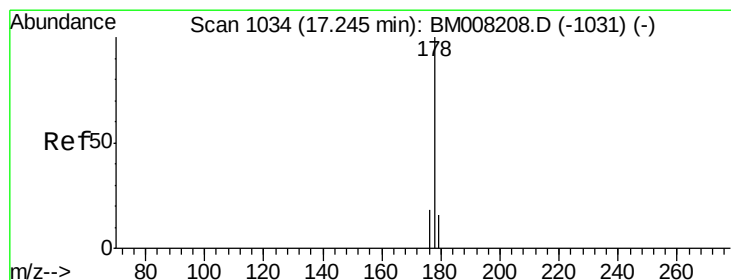
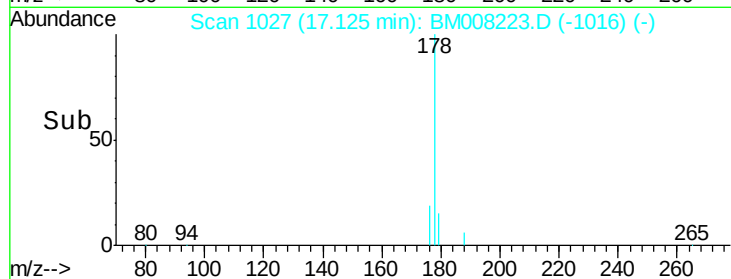
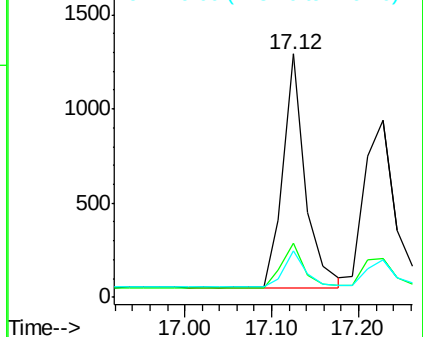
179 19.0 13.6 20.4



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



#13

Anthracene

Concen: 0.38 ng/ul

RT: 17.23 min Scan# 1033

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

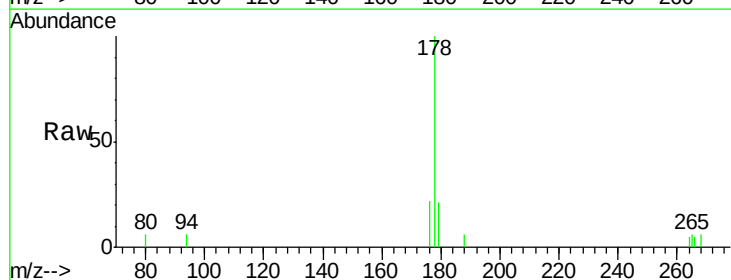
Tgt Ion:178 Resp: 2213

Ion Ratio Lower Upper

178 100

176 22.0 18.1 27.1

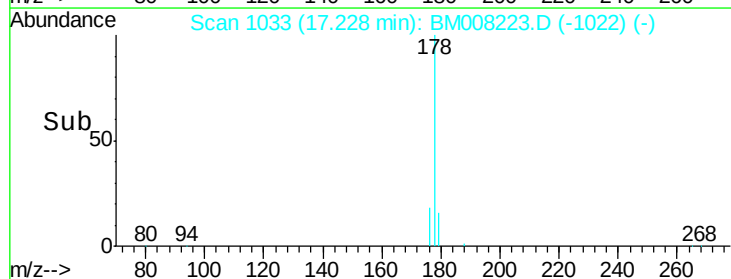
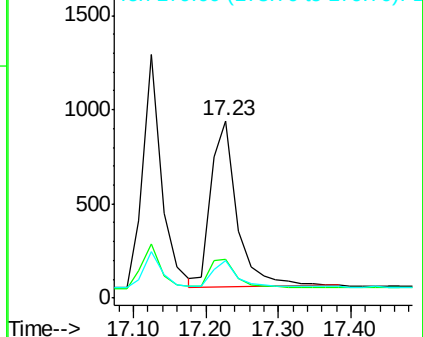
179 21.4 14.7 22.1

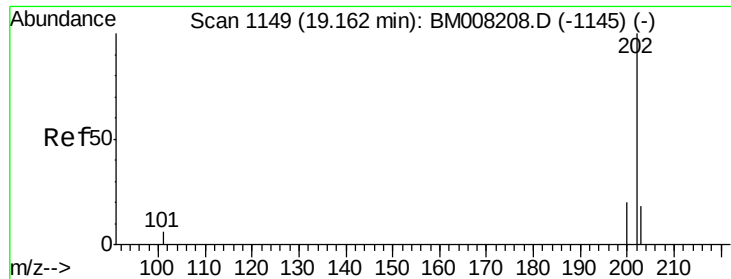


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

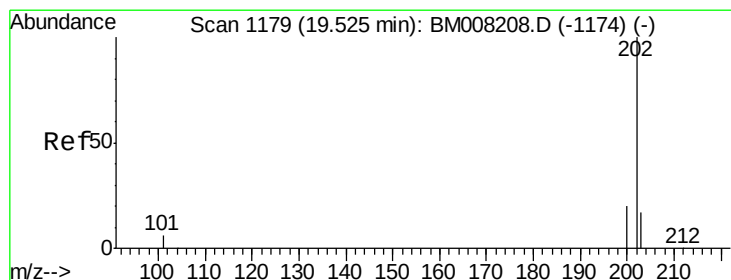
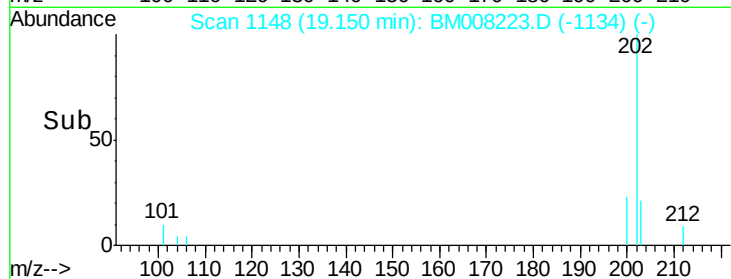
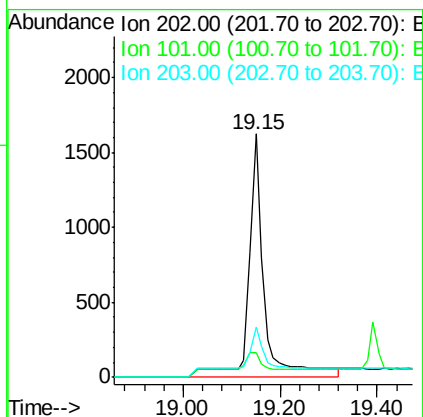
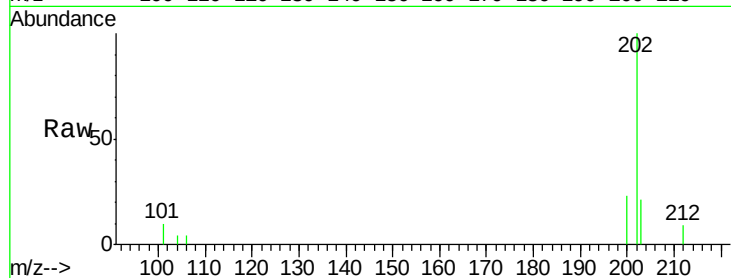




#15  
**Fluoranthene**  
 Concen: 0.46 ng/ul  
 RT: 19.15 min Scan# 1148  
 Delta R.T. -0.01 min  
 Lab File: BM008223.D  
 Acq: 10 Dec 2016 01:53

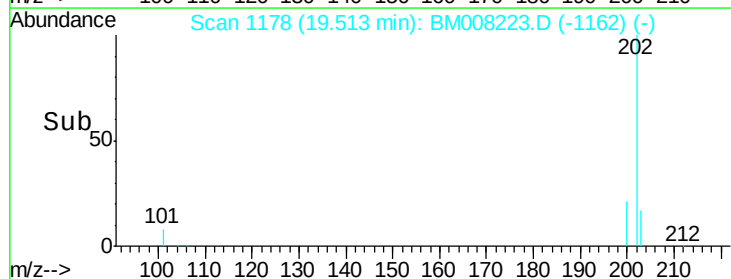
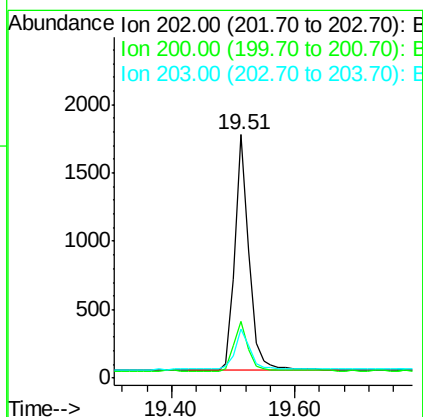
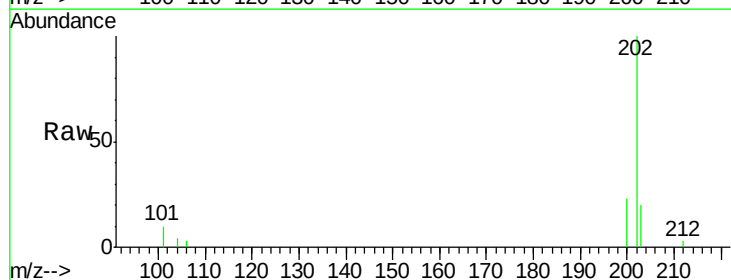
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.438

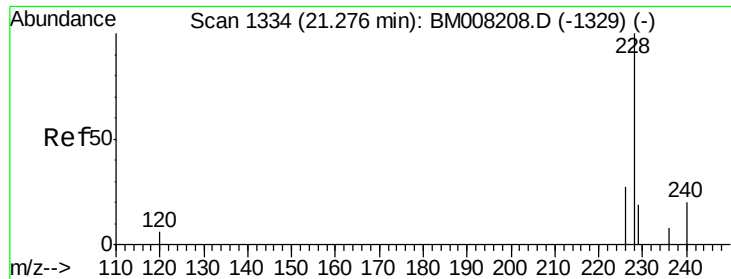
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 30.3  |
| 203     | 20.5  | 0.0   | 39.5  |



#17  
**Pyrene**  
 Concen: 0.44 ng/ul  
 RT: 19.51 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: BM008223.D  
 Acq: 10 Dec 2016 01:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 23.5  | 18.2  | 27.4  |
| 203     | 20.0  | 15.6  | 23.4  |





#18

Benzo(a)anthracene

Concen: 0.41 ng/ul

RT: 21.27 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

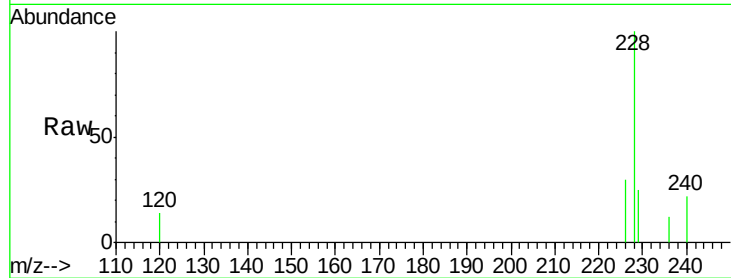
Tgt Ion:228 Resp: 2216

Ion Ratio Lower Upper

228 100

226 29.8 22.8 34.2

229 24.6 17.0 25.6

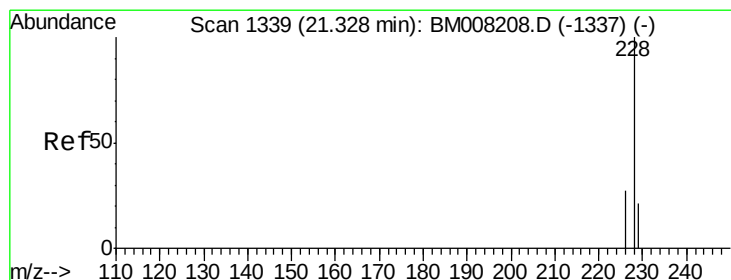
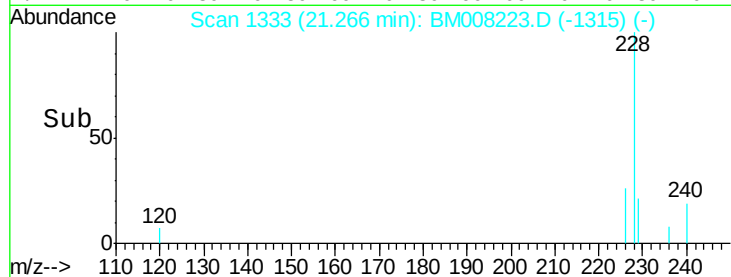
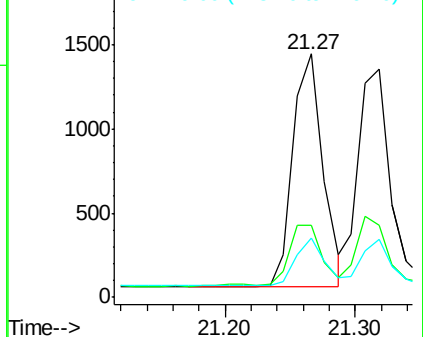


Abundance

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



#19

Chrysene

Concen: 0.34 ng/ul

RT: 21.32 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

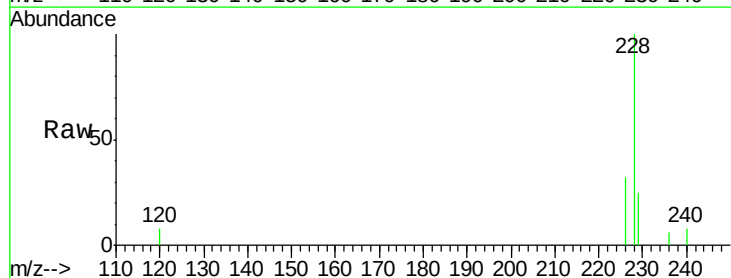
Tgt Ion:228 Resp: 2279

Ion Ratio Lower Upper

228 100

226 31.8 23.4 35.0

229 25.3 17.7 26.5

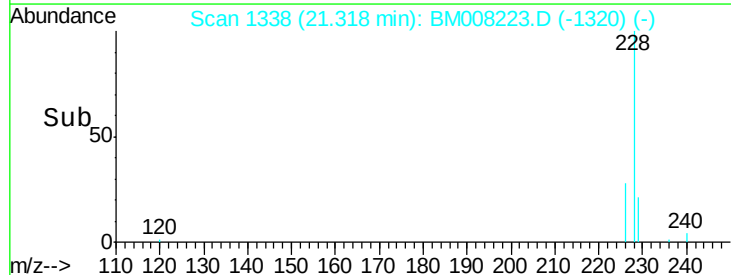
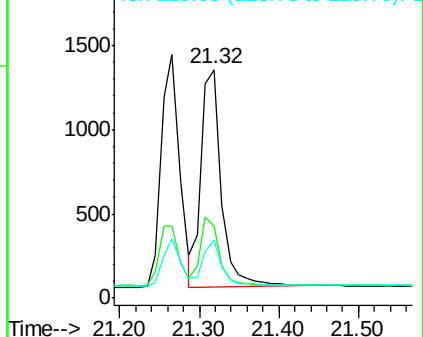


Abundance

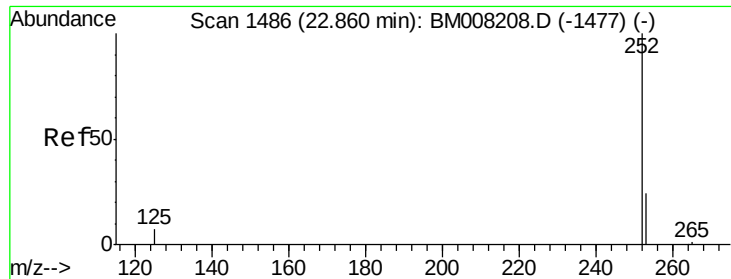
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#21

Benzo(b)fluoranthene

Concen: 0.32 ng/ul

RT: 22.84 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

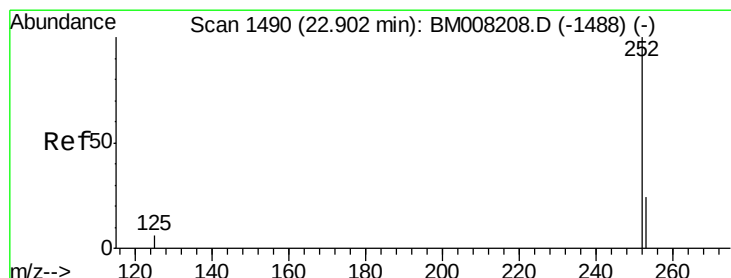
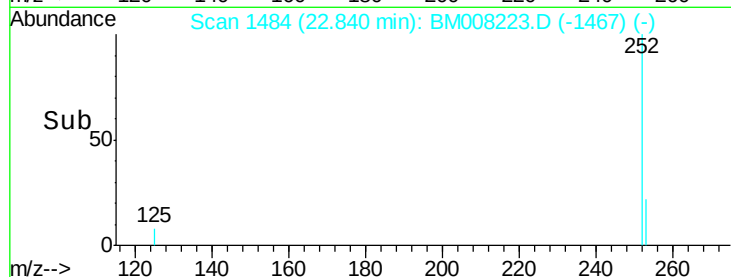
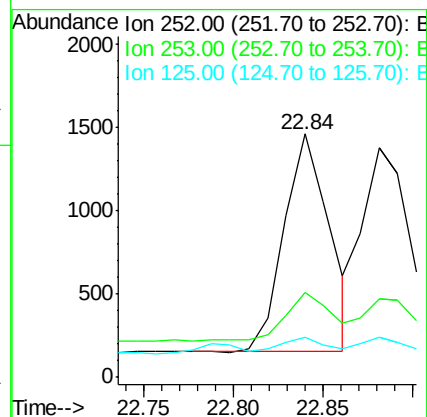
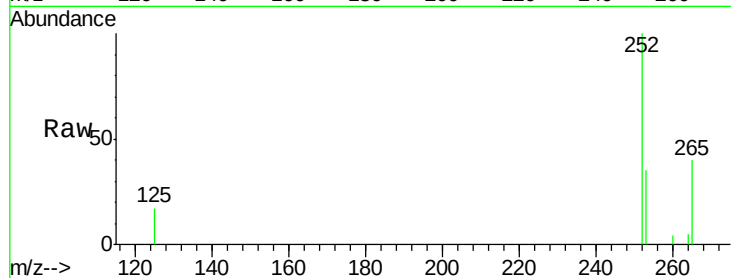
Tgt Ion:252 Resp: 2315

Ion Ratio Lower Upper

252 100

253 34.7 0.0 64.2

125 16.6 0.0 35.0



#22

Benzo(k)fluoranthene

Concen: 0.33 ng/ul

RT: 22.88 min Scan# 1488

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

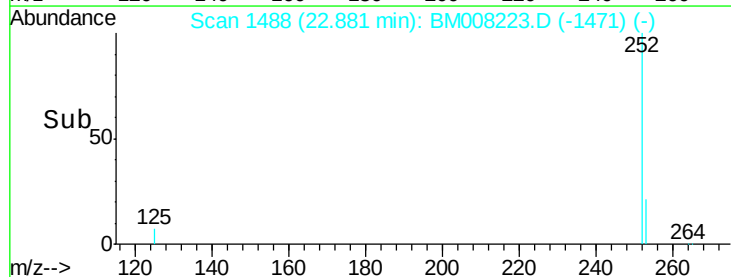
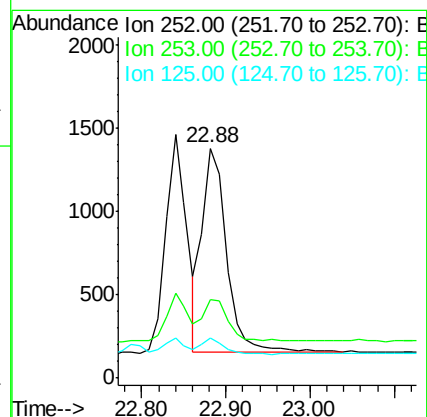
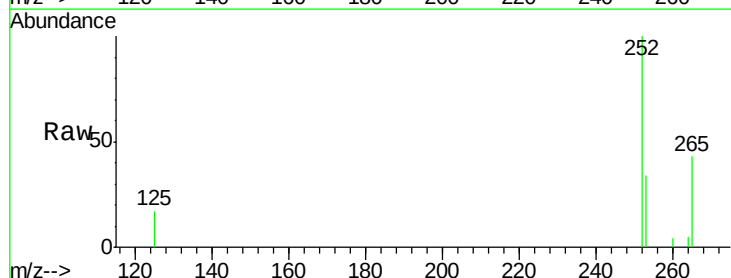
Tgt Ion:252 Resp: 2432

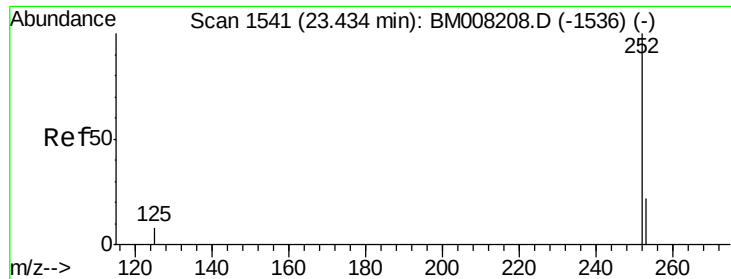
Ion Ratio Lower Upper

252 100

253 34.4 24.5 36.7

125 17.2 13.7 20.5





#23

Benzo(a)pyrene

Concen: 0.35 ng/ul

RT: 23.41 min Scan# 1539

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

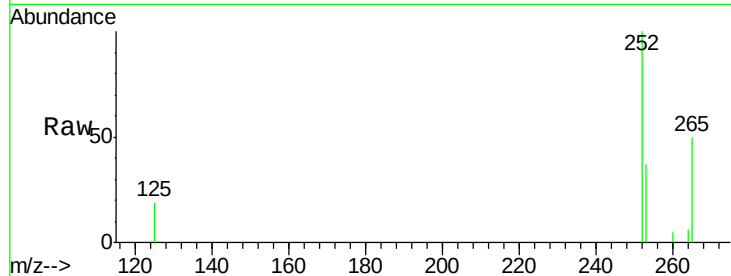
Tgt Ion:252 Resp: 2373

Ion Ratio Lower Upper

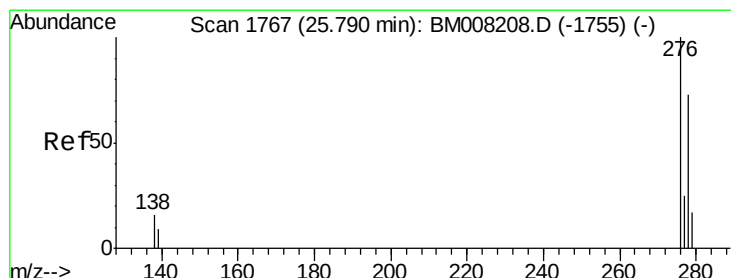
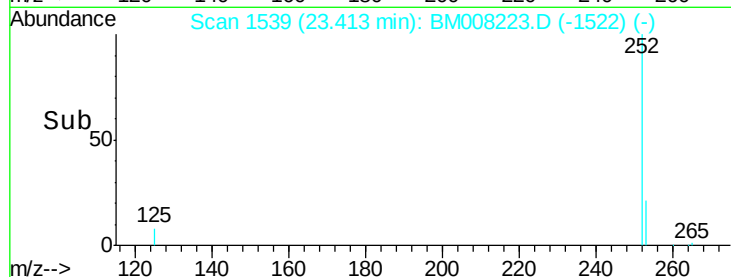
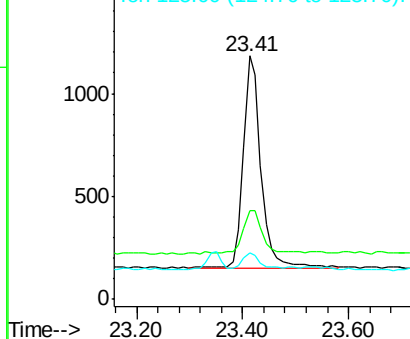
252 100

253 36.7 28.5 42.7

125 19.2 18.1 27.1



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

Indeno(1,2,3-cd)pyrene

Concen: 0.34 ng/ul

RT: 25.76 min Scan# 1764

Delta R.T. -0.03 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

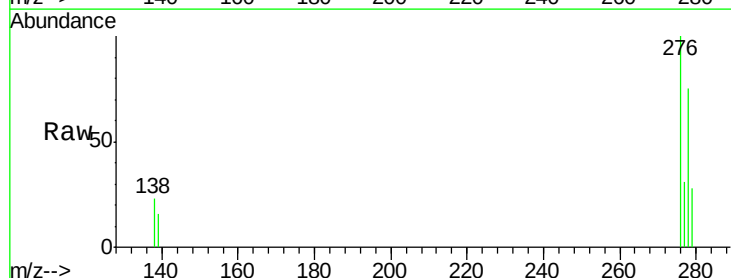
Tgt Ion:276 Resp: 2857

Ion Ratio Lower Upper

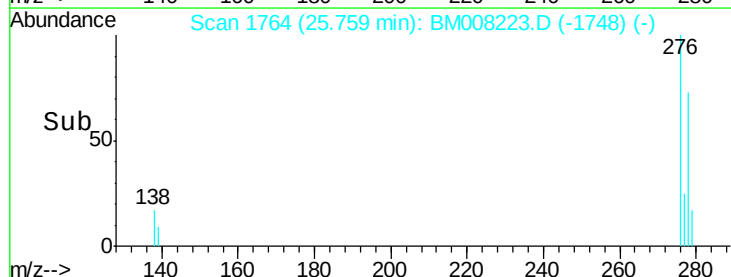
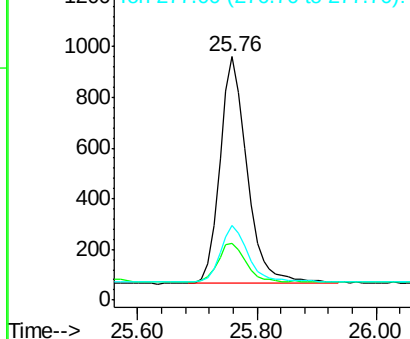
276 100

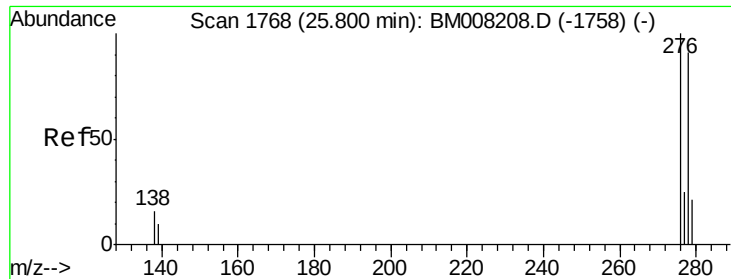
138 17.9 19.1 28.7#

277 25.1 19.6 29.4



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





#25

Dibenzo(a,h)anthracene

Concen: 0.34 ng/ul

RT: 25.77 min Scan# 1765

Delta R.T. -0.03 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

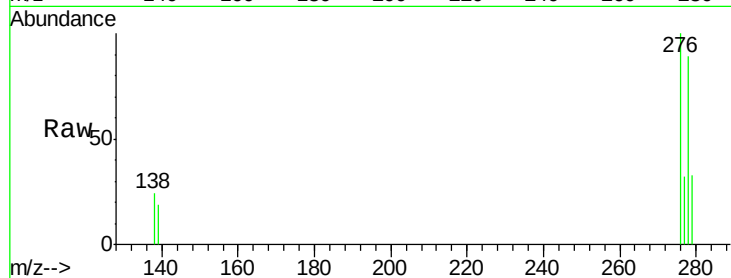
Tgt Ion: 278 Resp: 2288

Ion Ratio Lower Upper

278 100

139 20.8 17.4 26.0

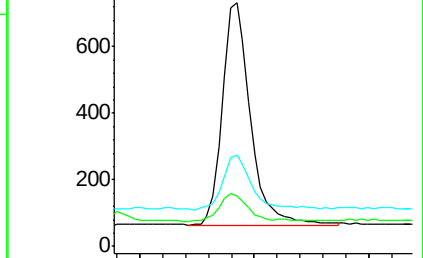
279 37.6 25.9 38.9



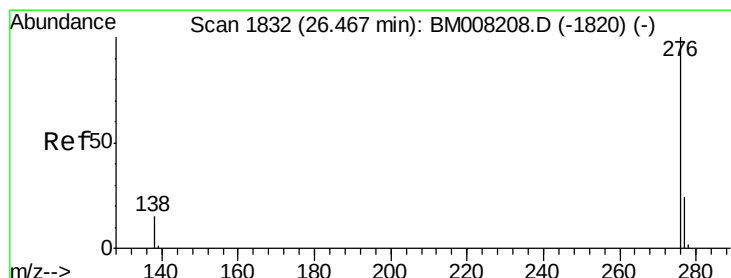
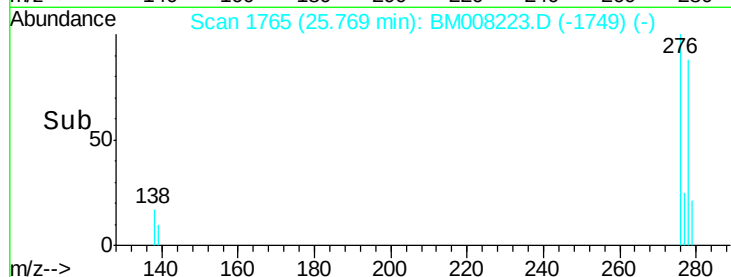
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#26

Benzo(g,h,i)perylene

Concen: 0.33 ng/ul

RT: 26.45 min Scan# 1830

Delta R.T. -0.02 min

Lab File: BM008223.D

Acq: 10 Dec 2016 01:53

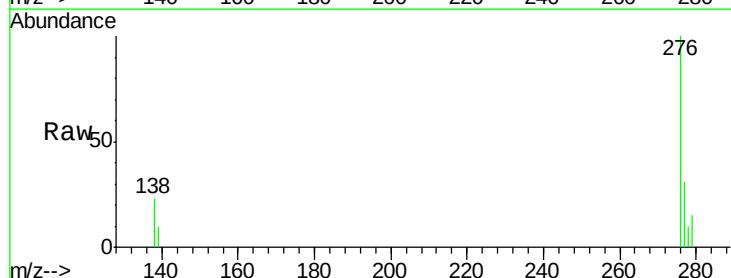
Tgt Ion: 276 Resp: 2449

Ion Ratio Lower Upper

276 100

277 30.7 21.8 32.8

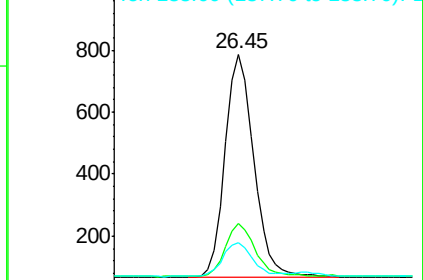
138 22.6 20.5 30.7



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



Time-->

