

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\  
 Data File : BM002410.D  
 Acq On : 15 Aug 2015 06:07  
 Operator : UM/IZ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02038

Quant Time: Aug 17 02:06:53 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 02:04:41 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 107379   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.73 | 136  | 511255   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.44 | 164  | 277745   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.15 | 188  | 586554   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 601902   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.88 | 264  | 544155   | 20.00 | ng/ul | 0.00     |

|                             |       |     |        |       |       |      |
|-----------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds |       |     |        |       |       |      |
| 7) Acenaphthylene-d8        | 15.15 | 160 | 564414 | 19.88 | ng/ul | 0.00 |
| 10) Fluorene-d10            | 16.42 | 176 | 387720 | 19.44 | ng/ul | 0.00 |
| 14) Anthracene-d10          | 18.24 | 188 | 558756 | 19.75 | ng/ul | 0.00 |
| 18) Pyrene-d10              | 20.46 | 212 | 571992 | 21.44 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12      | 24.71 | 264 | 570077 | 19.94 | ng/ul | 0.00 |

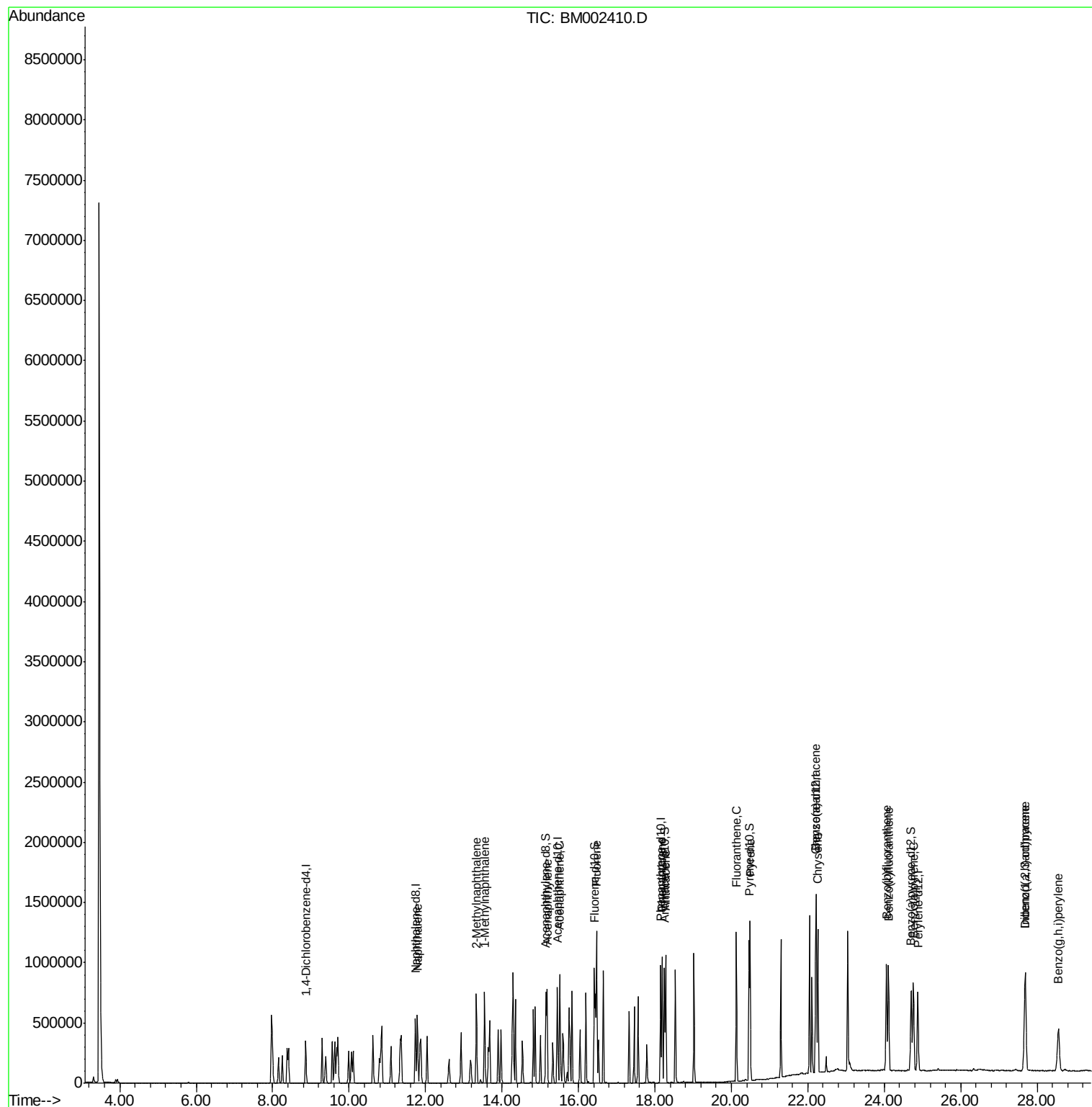
|                            |       |     |        |        |       |     |
|----------------------------|-------|-----|--------|--------|-------|-----|
| Target Compounds           |       |     |        | Ovalue |       |     |
| 3) Naphthalene             | 11.79 | 128 | 512617 | 19.65  | ng/ul | 99  |
| 4) 2-Methylnaphthalene     | 13.33 | 142 | 372537 | 19.06  | ng/ul | 99  |
| 5) 1-Methylnaphthalene     | 13.54 | 142 | 368497 | 19.06  | ng/ul | 100 |
| 8) Acenaphthylene          | 15.18 | 152 | 589844 | 19.85  | ng/ul | 99  |
| 9) Acenaphthene            | 15.51 | 153 | 389734 | 19.91  | ng/ul | 100 |
| 11) Fluorene               | 16.47 | 166 | 439231 | 19.58  | ng/ul | 100 |
| 13) Phenanthrene           | 18.19 | 178 | 670417 | 19.79  | ng/ul | 100 |
| 15) Anthracene             | 18.28 | 178 | 682434 | 19.88  | ng/ul | 99  |
| 16) Fluoranthene           | 20.13 | 202 | 731855 | 19.09  | ng/ul | 98  |
| 19) Pyrene                 | 20.49 | 202 | 757590 | 21.49  | ng/ul | 100 |
| 20) Benzo(a)anthracene     | 22.20 | 228 | 706262 | 19.62  | ng/ul | 99  |
| 21) Chrysene               | 22.26 | 228 | 664023 | 19.72  | ng/ul | 100 |
| 23) Benzo(b)fluoranthene   | 24.06 | 252 | 697366 | 21.20  | ng/ul | 99  |
| 24) Benzo(k)fluoranthene   | 24.11 | 252 | 635040 | 20.37  | ng/ul | 99  |
| 26) Benzo(a)pyrene         | 24.76 | 252 | 629014 | 20.02  | ng/ul | 100 |
| 27) Indeno(1,2,3-cd)pyrene | 27.69 | 276 | 608940 | 16.85  | ng/ul | 99  |
| 28) Dibenzo(a,h)anthracene | 27.69 | 278 | 522977 | 17.31  | ng/ul | 98  |
| 29) Benzo(a,h,i)perylene   | 28.56 | 276 | 487017 | 16.19  | ng/ul | 98  |

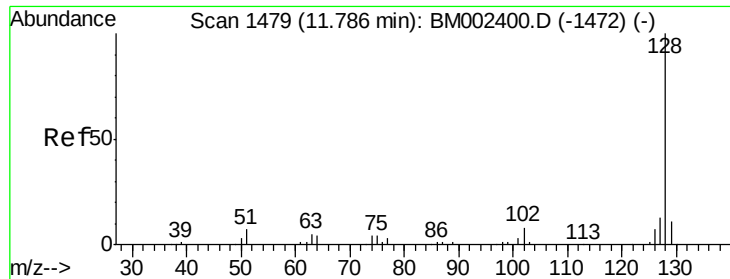
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\  
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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02038

Quant Time: Aug 17 02:06:53 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 17 02:04:41 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 19.65 ng/ul

RT: 11.79 min Scan# 1479

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

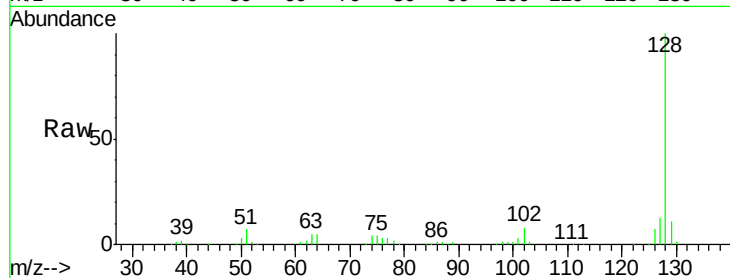
Tot Ion:128 Resp: 512617

Ion Ratio Lower Upper

128 100

129 11.3 8.6 12.8

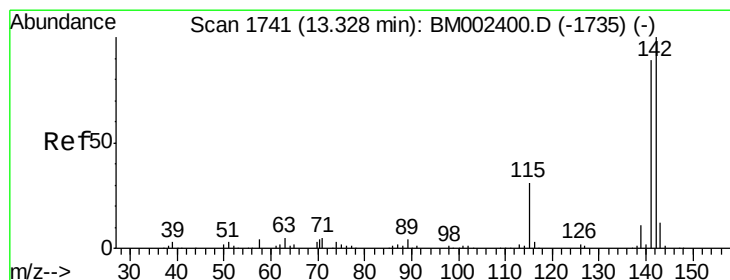
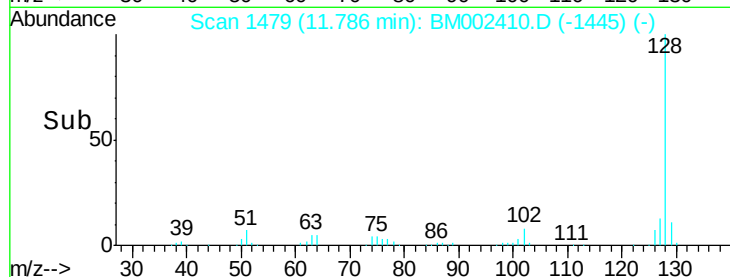
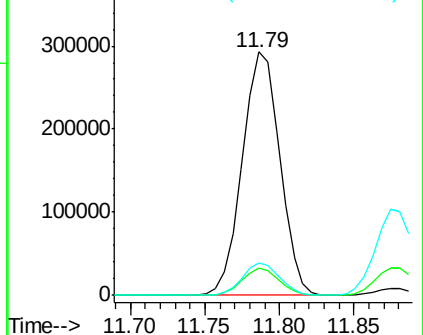
127 13.2 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#4

2-Methylnaphthalene

Concen: 19.06 ng/ul

RT: 13.33 min Scan# 1741

Delta R.T. -0.00 min

Lab File: BM002410.D

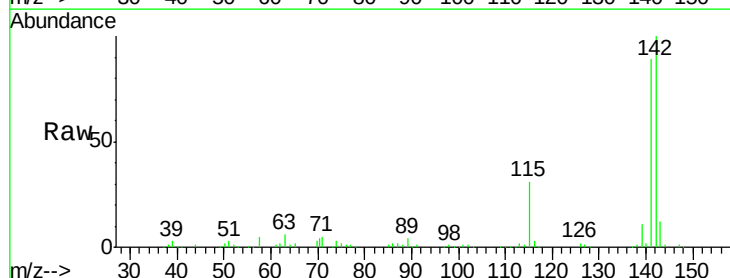
Acq: 15 Aug 2015 06:07

Tgt Ion:142 Resp: 372537

Ion Ratio Lower Upper

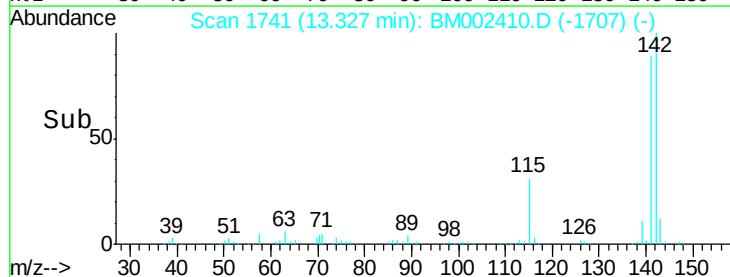
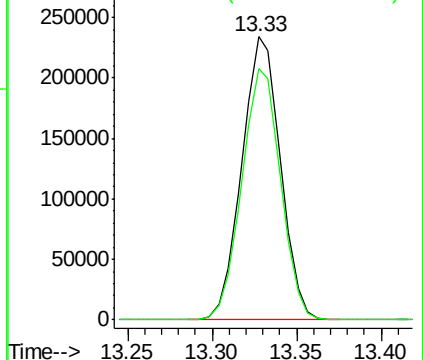
142 100

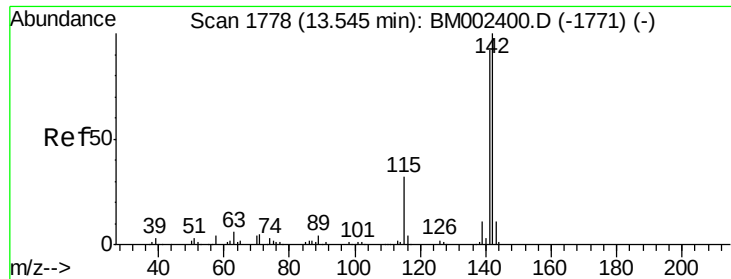
141 88.8 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 19.06 ng/ul

RT: 13.54 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

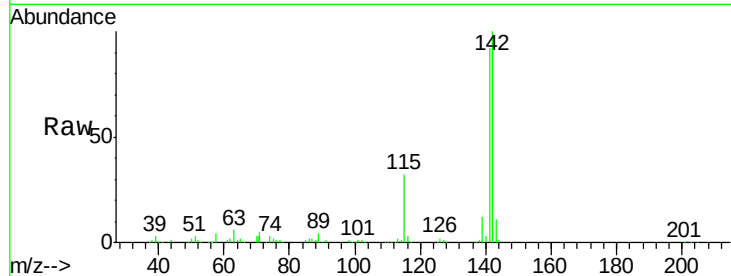
Tot Ion:142 Resp: 368497

Ion Ratio Lower Upper

142 100

141 92.1 73.9 110.9

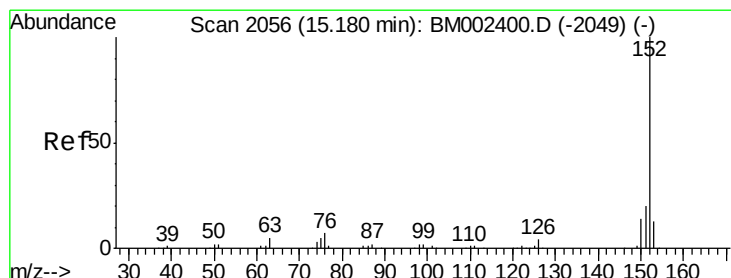
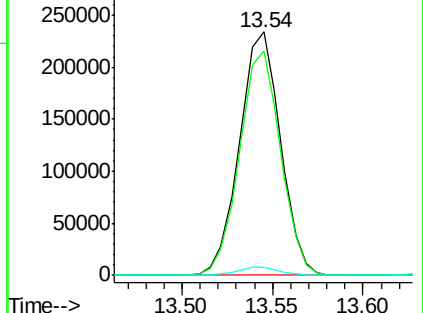
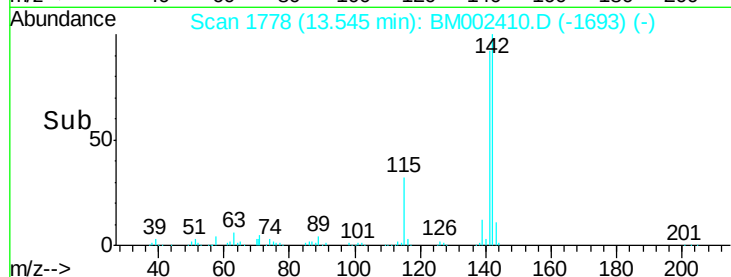
116 3.2 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#8

Acenaphthylene

Concen: 19.85 ng/ul

RT: 15.18 min Scan# 2056

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

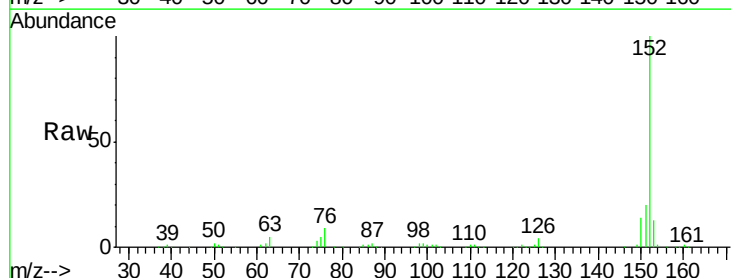
Tgt Ion:152 Resp: 589844

Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

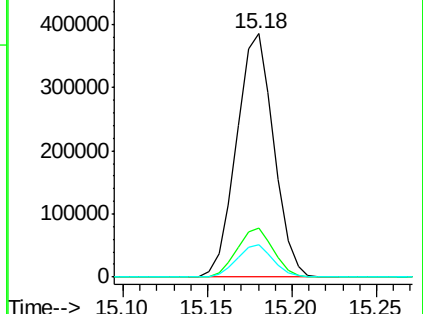
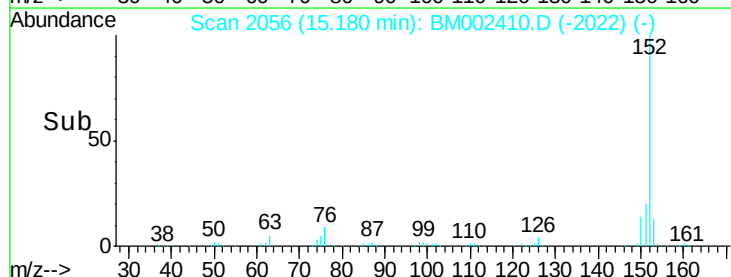
153 13.2 10.2 15.4

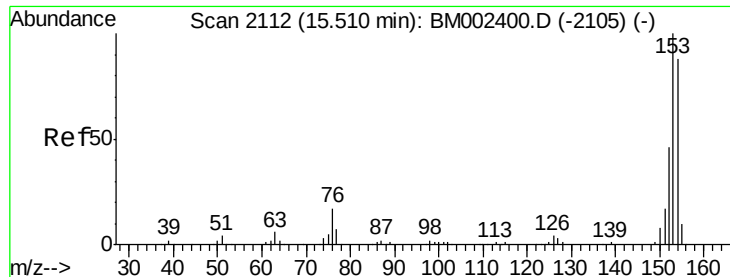


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 19.91 ng/ul

RT: 15.51 min Scan# 2112

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

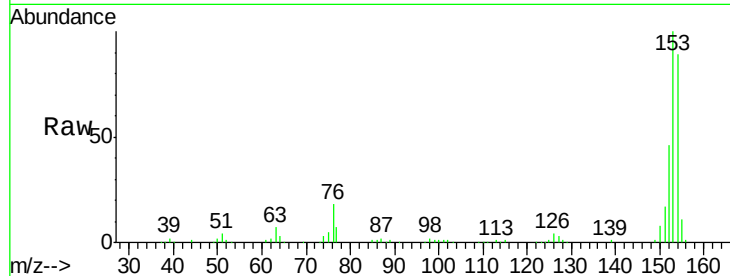
Tot Ion:153 Resp: 389734

Ion Ratio Lower Upper

153 100

152 46.2 36.9 55.3

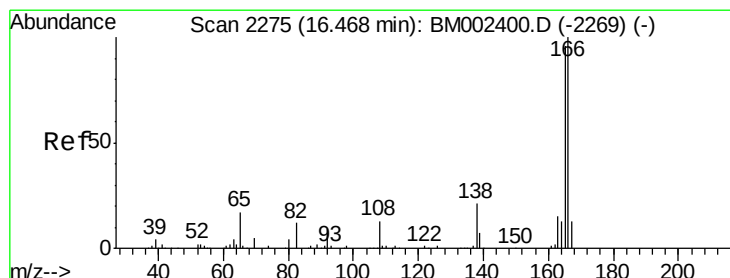
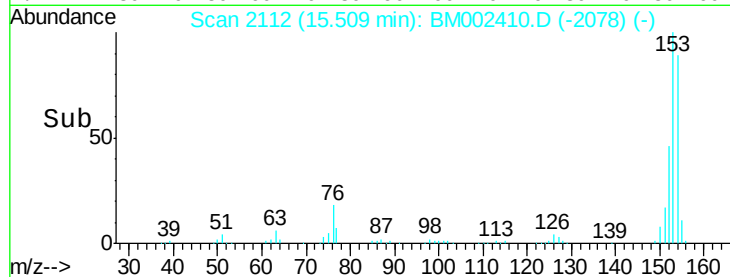
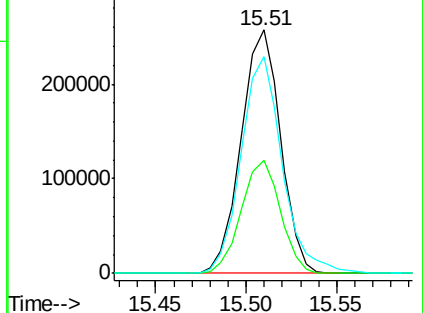
154 89.0 71.3 106.9



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



#11

Fluorene

Concen: 19.58 ng/ul

RT: 16.47 min Scan# 2275

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

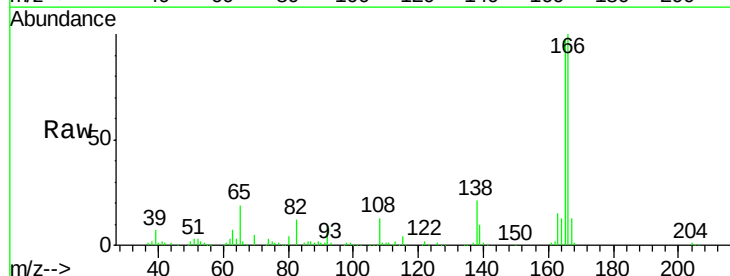
Tgt Ion:166 Resp: 439231

Ion Ratio Lower Upper

166 100

165 97.2 77.6 116.4

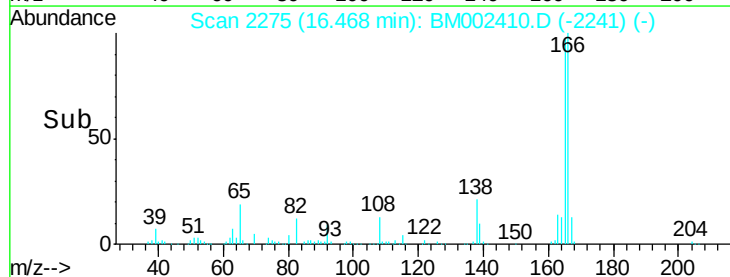
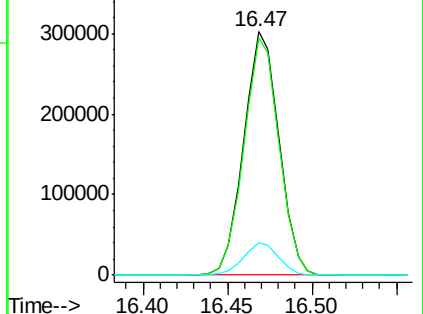
167 13.5 10.7 16.1

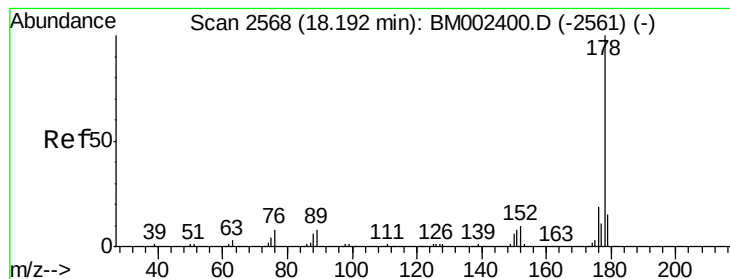


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene

Concen: 19.79 ng/ul

RT: 18.19 min Scan# 2568

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

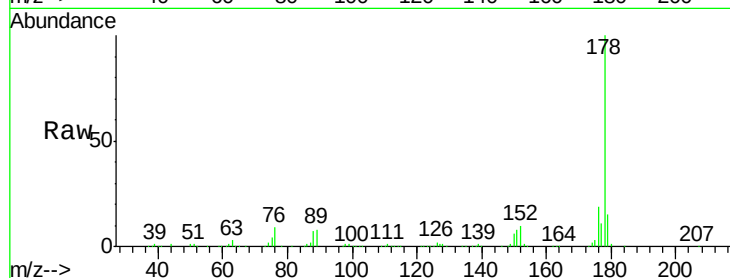
BNA\_M

ClientSampleId :

SSTD02038

Tot Ion:178 Resp: 670417

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.3  | 12.4  | 18.6  |
| 176 | 18.8  | 15.1  | 22.7  |

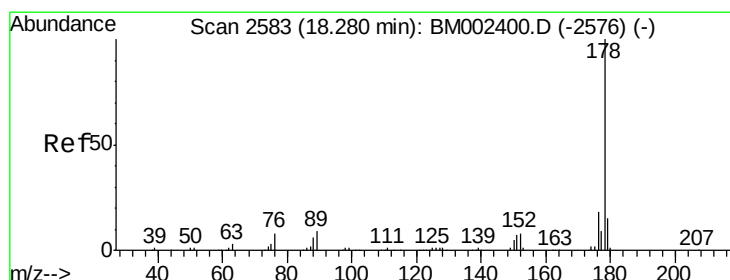
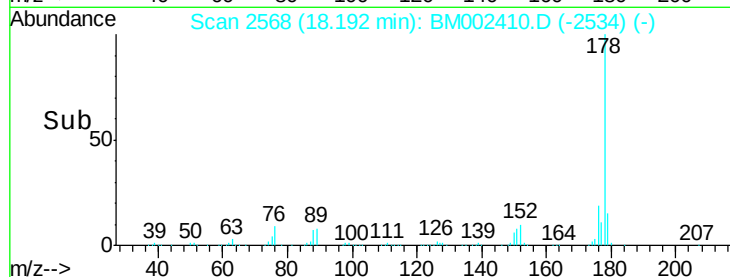
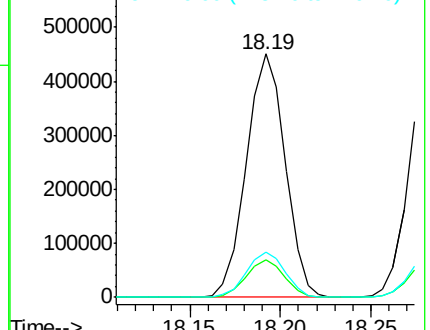


Abundance

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



#15

Anthracene

Concen: 19.88 ng/ul

RT: 18.28 min Scan# 2583

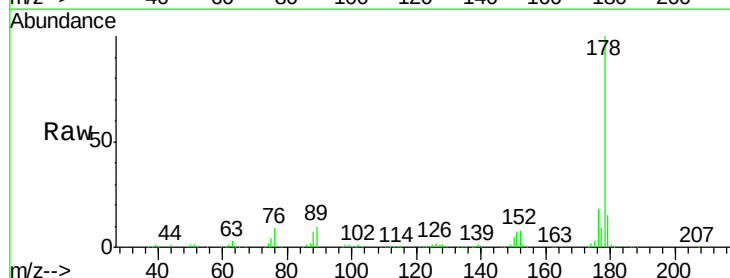
Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Tgt Ion:178 Resp: 682434

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.3  | 12.6  | 18.8  |
| 176 | 18.0  | 14.5  | 21.7  |

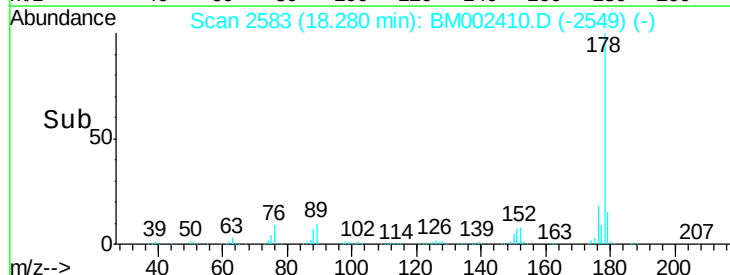
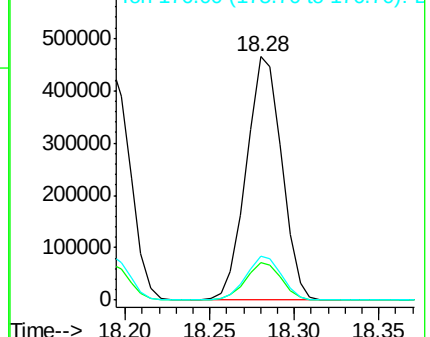


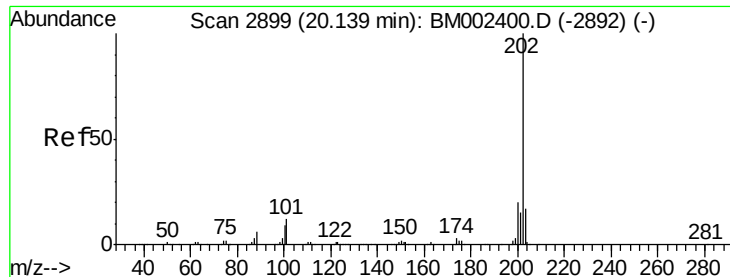
Abundance

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





#16

Fluoranthene

Concen: 19.09 ng/ul

RT: 20.13 min Scan# 2898

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

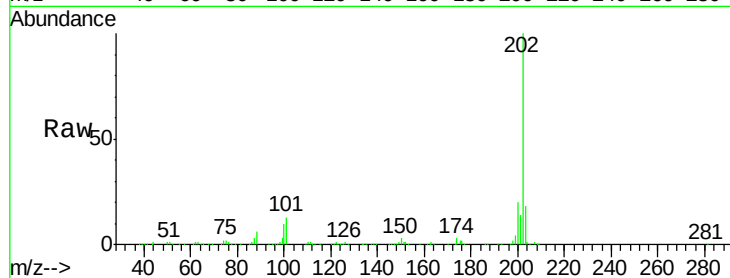
Tot Ion:202 Resp: 731855

Ion Ratio Lower Upper

202 100

101 12.9 9.7 14.5

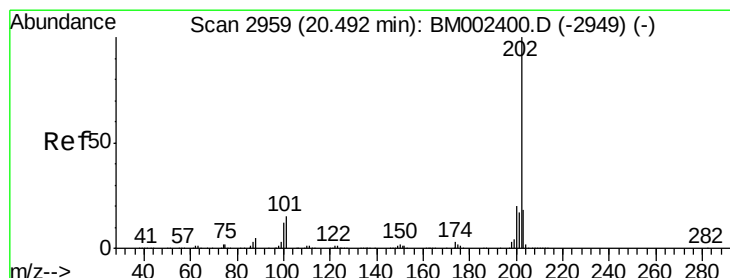
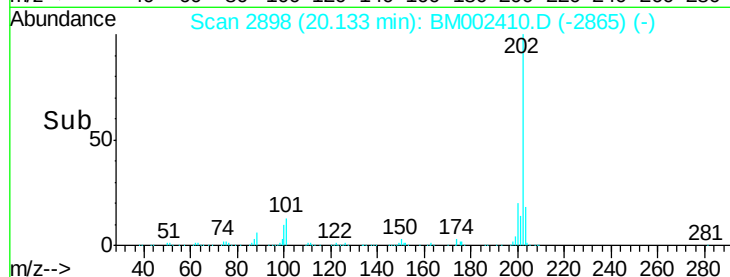
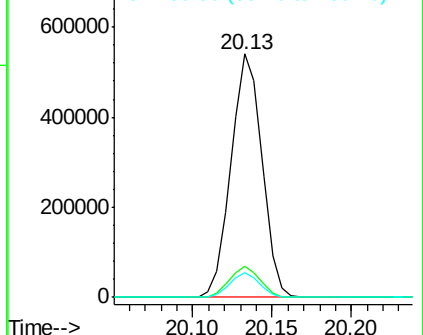
100 10.0 7.4 11.2



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



#19

Pyrene

Concen: 21.49 ng/ul

RT: 20.49 min Scan# 2959

Delta R.T. -0.00 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

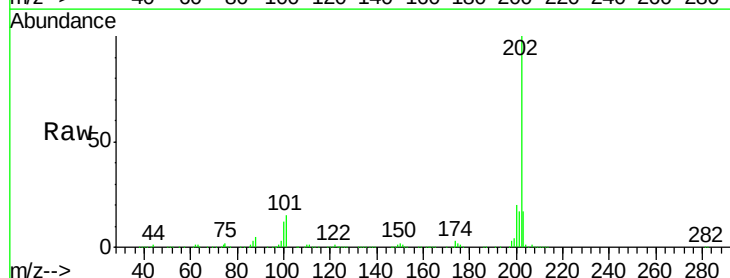
Tgt Ion:202 Resp: 757590

Ion Ratio Lower Upper

202 100

101 14.8 12.0 18.0

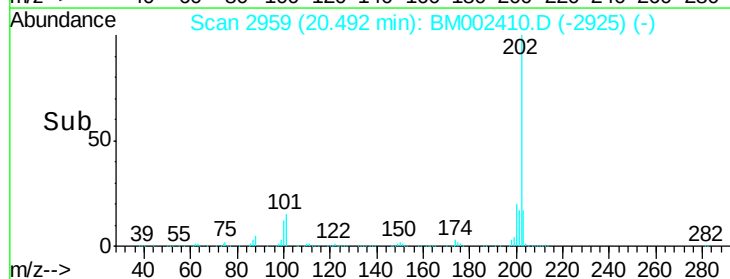
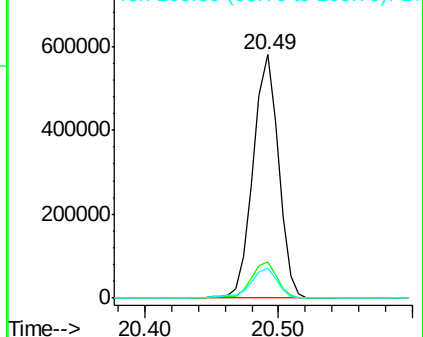
100 12.0 9.7 14.5

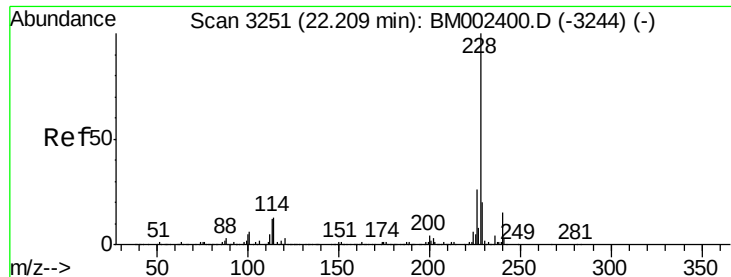


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

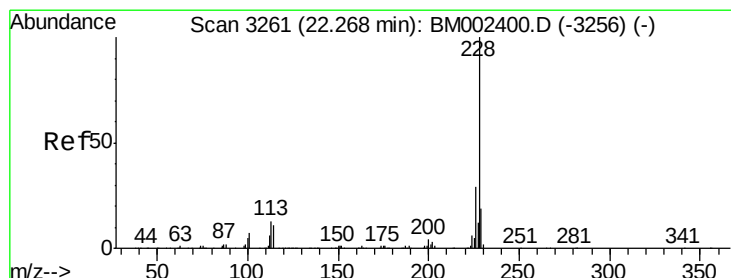
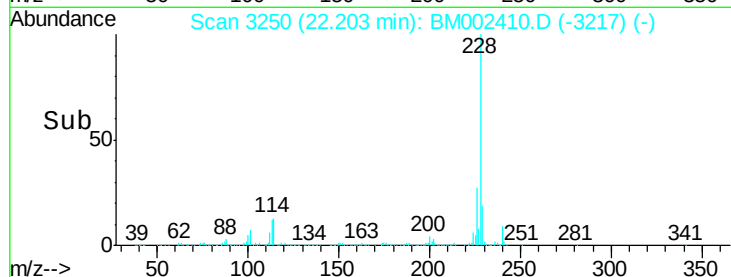
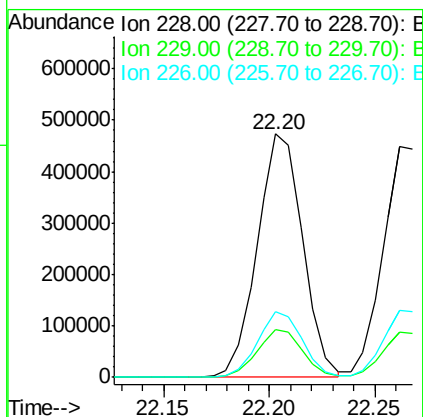
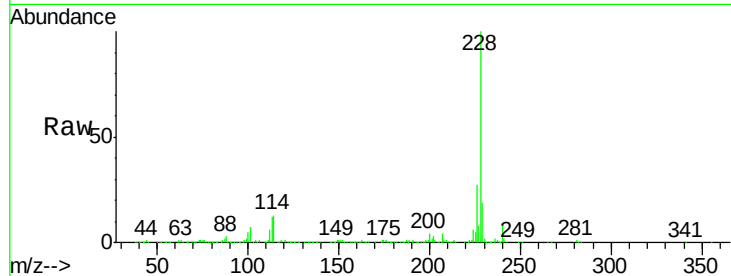




#20  
Benzo(a)anthracene  
Concen: 19.62 ng/ul  
RT: 22.20 min Scan# 3250  
Delta R.T. -0.01 min  
Lab File: BM002410.D  
Acq: 15 Aug 2015 06:07

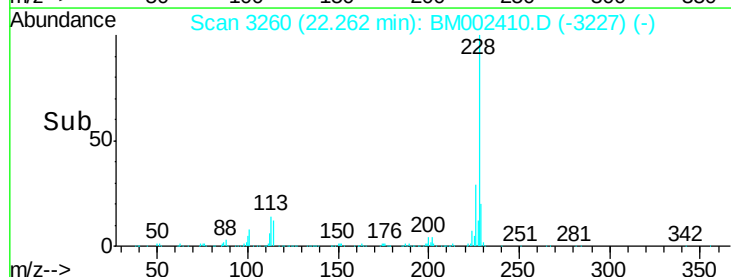
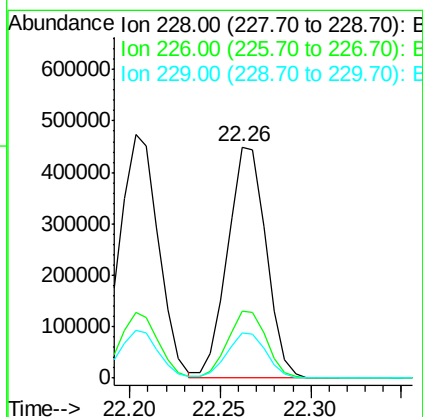
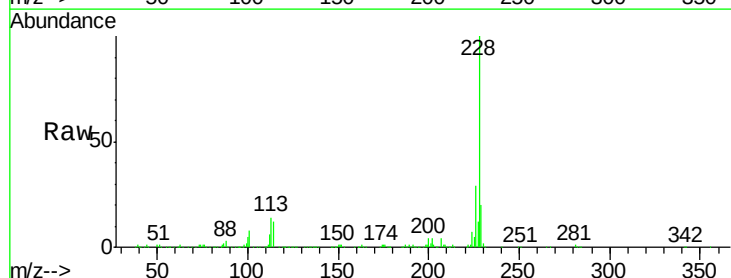
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02038

Tot Ion:228 Resp: 706262  
Ion Ratio Lower Upper  
228 100  
229 19.5 15.8 23.6  
226 26.8 21.1 31.7

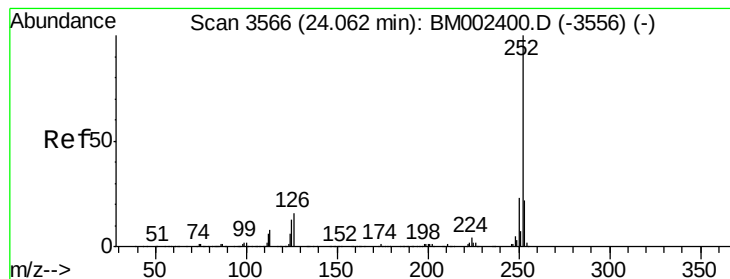


#21  
Chrysene  
Concen: 19.72 ng/ul  
RT: 22.26 min Scan# 3260  
Delta R.T. -0.01 min  
Lab File: BM002410.D  
Acq: 15 Aug 2015 06:07

Tgt Ion:228 Resp: 664023  
Ion Ratio Lower Upper  
228 100  
226 29.0 23.4 35.2  
229 19.6 15.7 23.5







#23

Benzo(b)fluoranthene

Concen: 21.20 ng/ul

RT: 24.06 min Scan# 3565

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

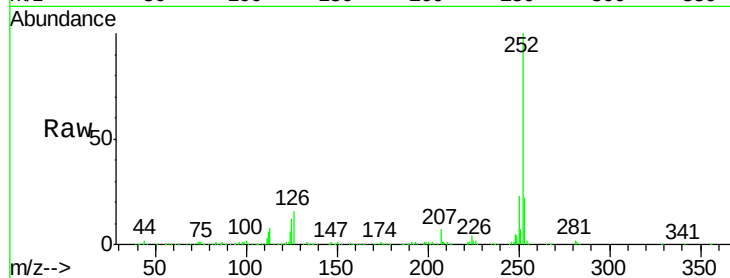
Tot Ion:252 Resp: 697366

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

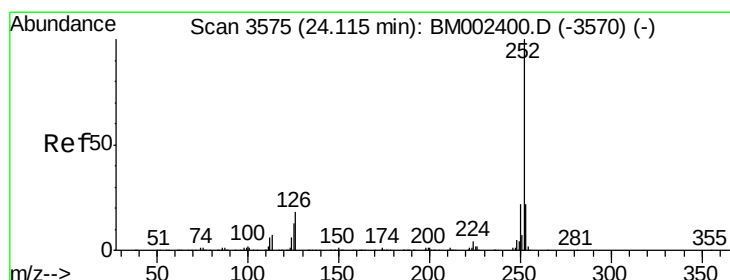
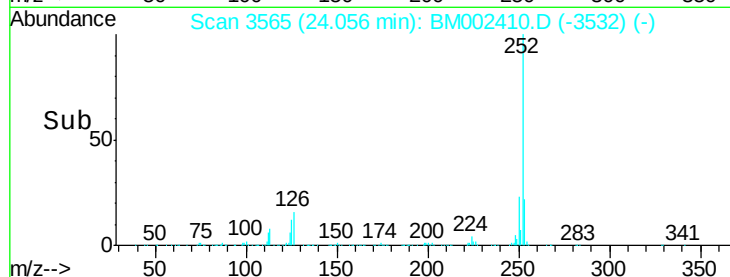
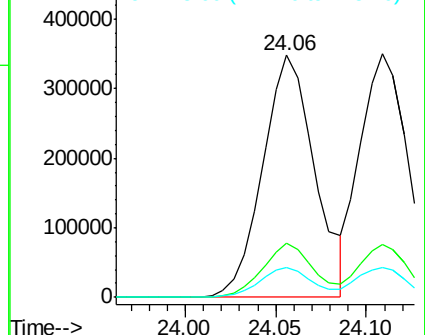
125 12.3 10.0 15.0



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: 20.37 ng/ul

RT: 24.11 min Scan# 3574

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

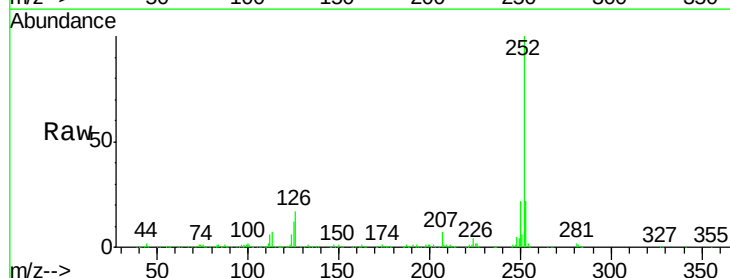
Tgt Ion:252 Resp: 635040

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.6

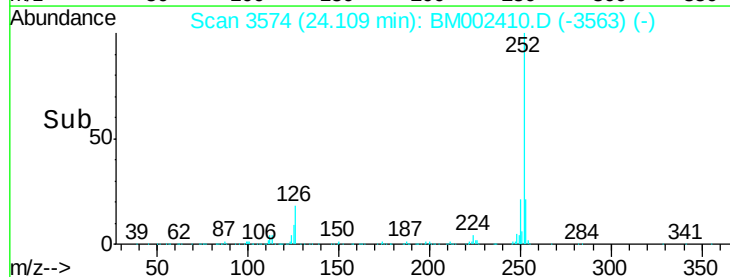
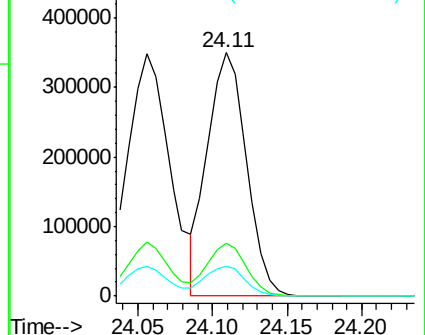
125 12.0 9.8 14.8

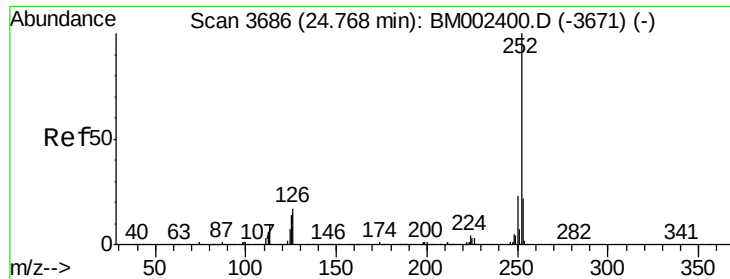


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 20.02 ng/ul

RT: 24.76 min Scan# 3685

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

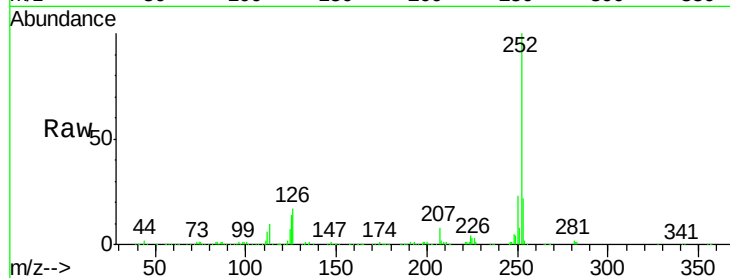
Tot Ion:252 Resp: 629014

Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

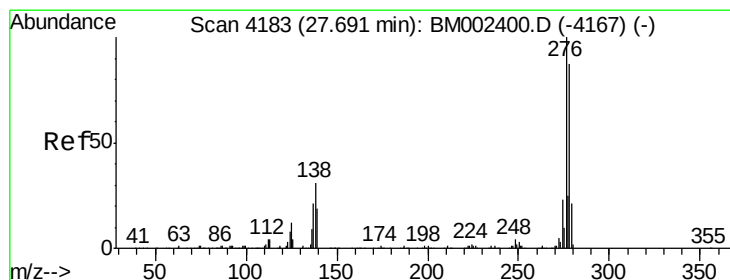
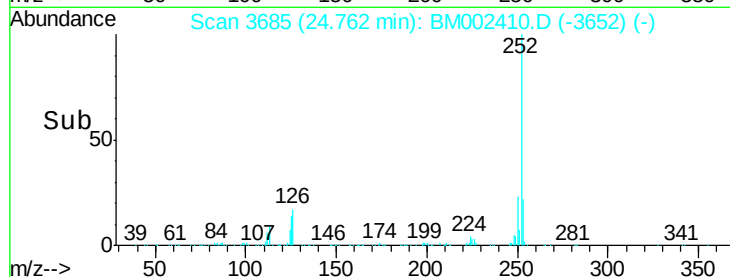
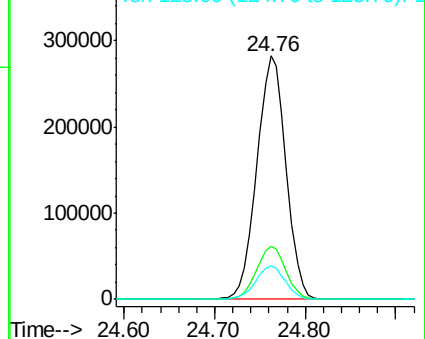
125 13.7 10.7 16.1



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 16.85 ng/ul

RT: 27.69 min Scan# 4182

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

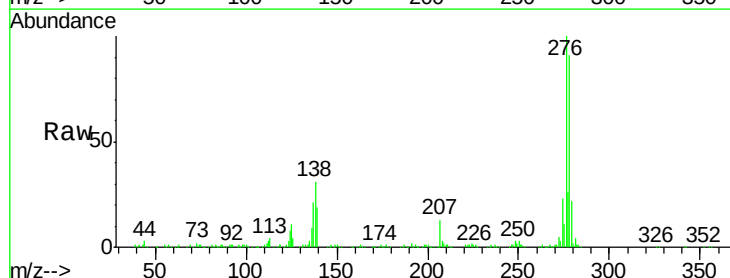
Tgt Ion:276 Resp: 608940

Ion Ratio Lower Upper

276 100

138 31.1 25.3 37.9

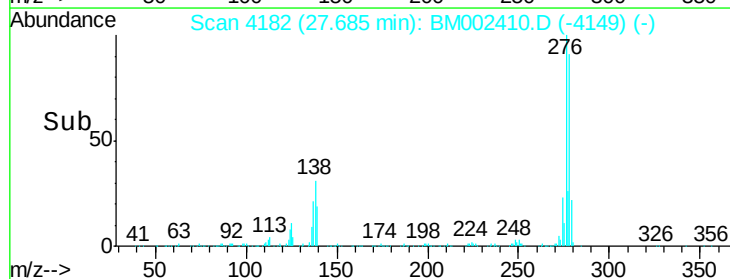
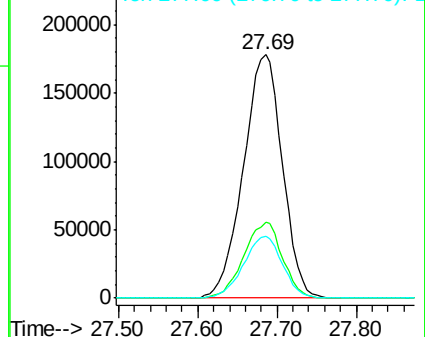
277 25.5 20.2 30.2

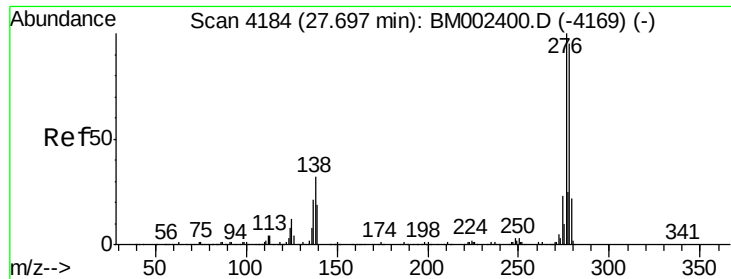


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 17.31 ng/ul

RT: 27.69 min Scan# 4183

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

Instrument :

BNA\_M

ClientSampleId :

SSTD02038

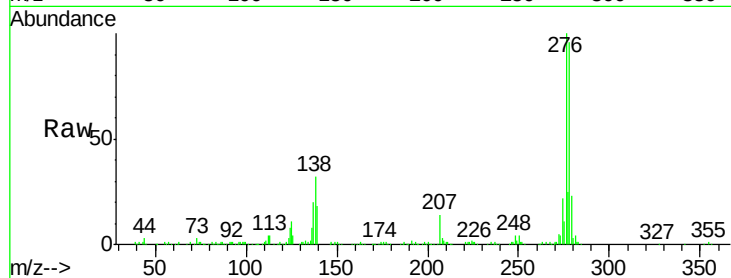
Tot Ion:278 Resp: 522977

Ion Ratio Lower Upper

278 100

139 19.1 16.5 24.7

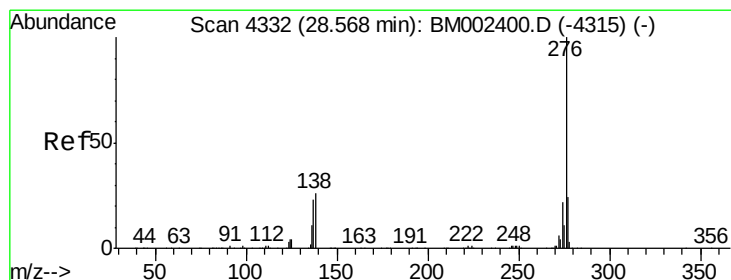
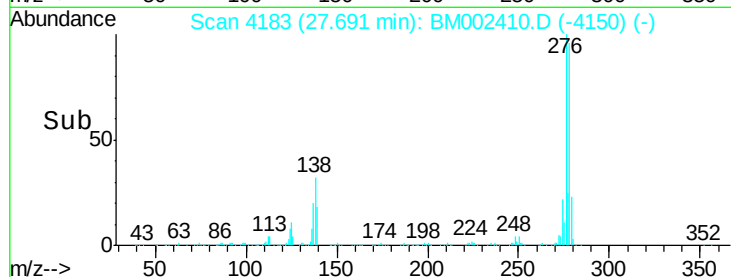
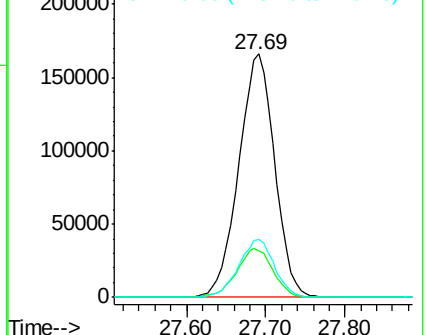
279 23.8 18.8 28.2



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



#29

Benzo(g,h,i)perylene

Concen: 16.19 ng/ul

RT: 28.56 min Scan# 4331

Delta R.T. -0.01 min

Lab File: BM002410.D

Acq: 15 Aug 2015 06:07

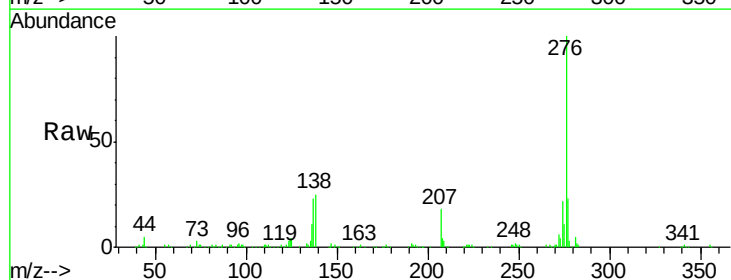
Tgt Ion:276 Resp: 487017

Ion Ratio Lower Upper

276 100

138 25.5 21.0 31.6

277 23.2 19.2 28.8



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

