

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111915\  
 Data File : BM003203.D  
 Acq On : 19 Nov 2015 23:09  
 Operator : UM/IZ  
 Sample : G4323-23  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4J42

Quant Time: Nov 20 03:41:32 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 20 03:16:26 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 15910    | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.53 | 136  | 61029    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.38 | 164  | 31552    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.23 | 188  | 3077962  | 0.40 | ng/ul | 0.10     |
| 18) Chrysene-d12          | 21.32 | 240  | 61310    | 0.40 | ng/ul | -0.01    |
| 22) Perylene-d12          | 23.44 | 264  | 3440700  | 0.40 | ng/ul | -0.15    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.20  | 96   | 71001    | 4.18 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.12 | 152  | 18588    | 0.22 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 19.17 | 212  | 37360    | 0.00 | ng/ul | 0.00     |

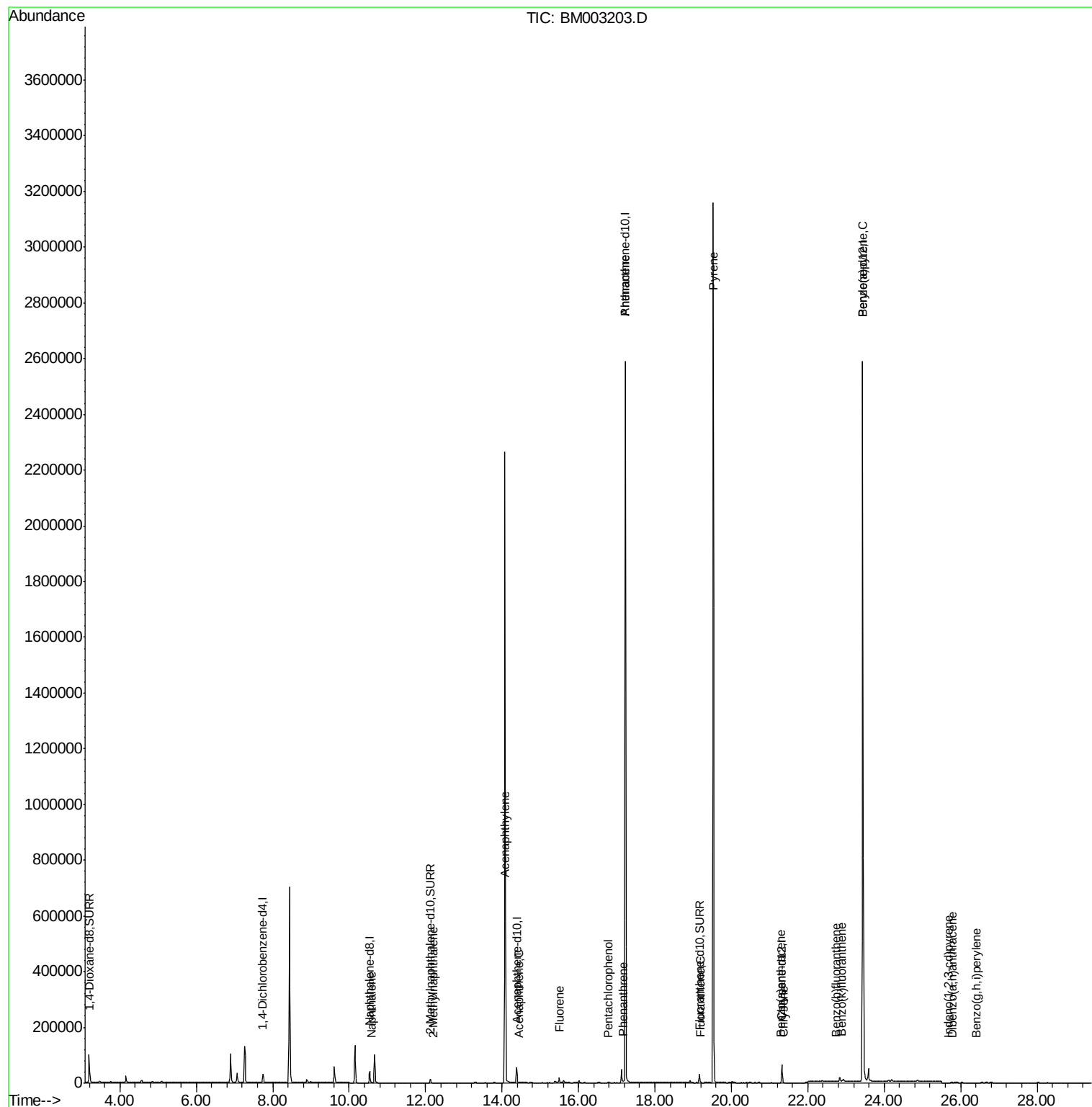
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 5) Naphthalene             | 10.58 | 128  | 2673     | 0.02 | ng/ul# | 84     |
| 7) 2-Methylnaphthalene     | 12.19 | 142  | 322      | 0.00 | ng/ul# | 100    |
| 9) Acenaphthylene          | 14.09 | 152  | 787      | 0.01 | ng/ul# | 24     |
| 10) Acenaphthene           | 14.45 | 153  | 278      | 0.00 | ng/ul# | 80     |
| 11) Fluorene               | 15.49 | 166  | 308      | 0.00 | ng/ul# | 1      |
| 13) Pentachlorophenol      | 16.78 | 266  | 2161     | 0.00 | ng/ul# | 14     |
| 14) Phenanthrene           | 17.17 | 178  | 8951     | 0.00 | ng/ul  | 93     |
| 15) Anthracene             | 17.23 | 178  | 2017     | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 19.19 | 202  | 4911     | 0.00 | ng/ul  | 76     |
| 19) Pyrene                 | 19.53 | 202  | 9788     | 0.05 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 21.30 | 228  | 1901     | 0.01 | ng/ul# | 76     |
| 21) Chrysene               | 21.35 | 228  | 2481     | 0.01 | ng/ul# | 80     |
| 23) Benzo(b)fluoranthene   | 22.75 | 252  | 99       | 0.00 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 22.90 | 252  | 4394     | 0.00 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 23.44 | 252  | 16196    | 0.00 | ng/ul# | 57     |
| 26) Indeno(1,2,3-cd)pyrene | 25.69 | 276  | 46       | 0.00 | ng/ul# | 100    |
| 27) Dibenzo(a,h)anthracene | 25.77 | 278  | 83       | 0.00 | ng/ul# | 1      |
| 28) Benzo(a,h,i)perylene   | 26.42 | 276  | 166      | 0.00 | ng/ul# | 1      |

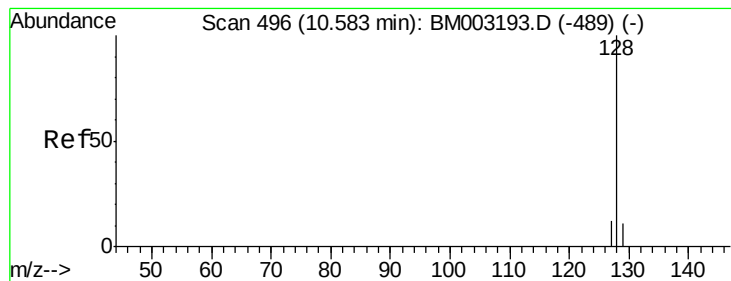
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 20 03:16:26 2015  
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#5

Naphthalene

Concen: 0.02 ng/ul

RT: 10.58 min Scan# 496

Delta R.T. -0.00 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

Instrument :

BNA\_M

ClientSampleId :

A4J42

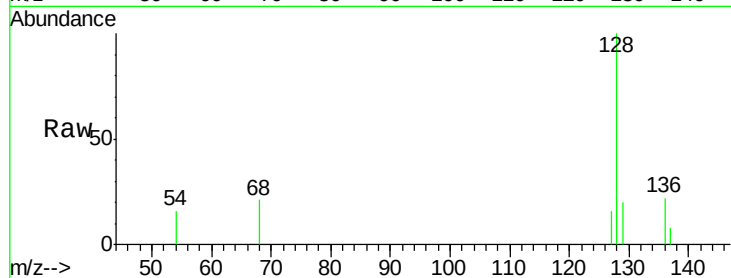
Tot Ion:128 Resp: 2673

Ion Ratio Lower Upper

128 100

129 19.7 9.0 13.6#

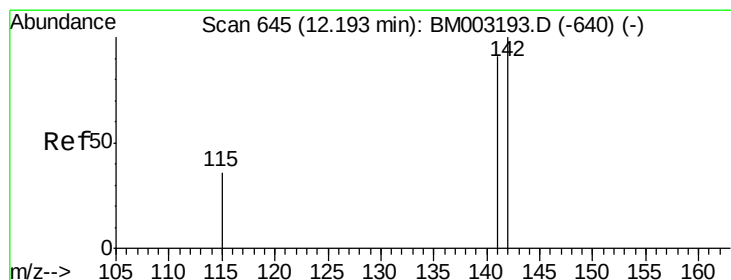
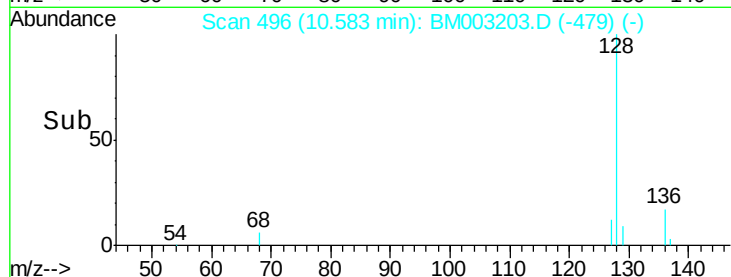
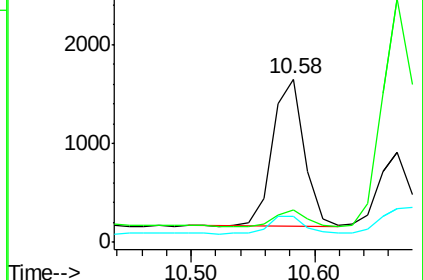
127 16.2 9.6 14.4#



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



#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.19 min Scan# 645

Delta R.T. -0.00 min

Lab File: BM003203.D

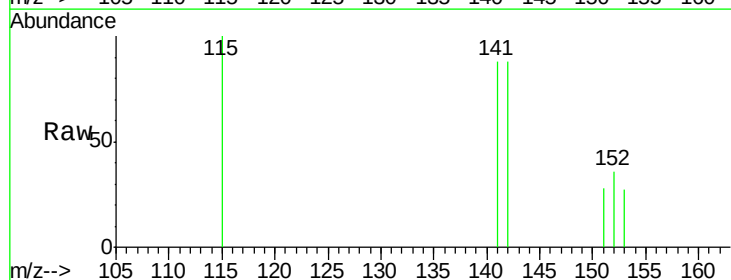
Acq: 19 Nov 2015 23:09

Tgt Ion:142 Resp: 322

Ion Ratio Lower Upper

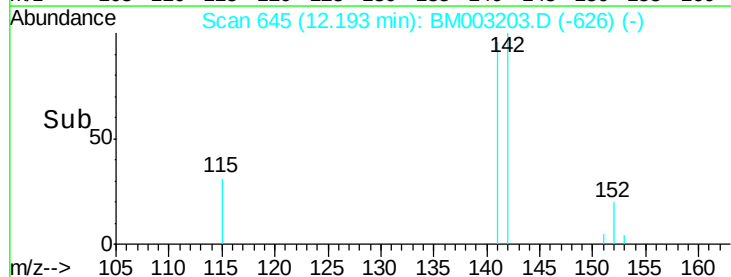
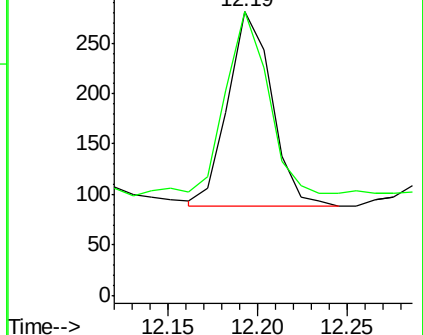
142 100

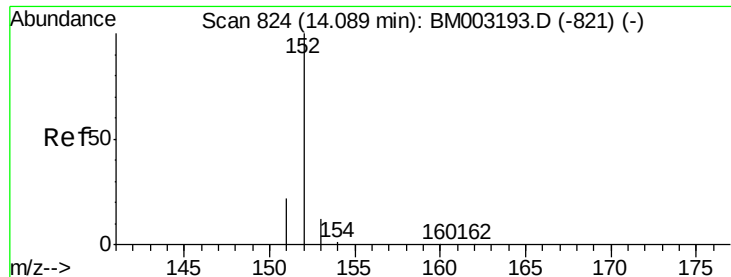
141 95.7 0.0 0.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.01 ng/ul

RT: 14.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

Instrument :

BNA\_M

ClientSampleId :

A4J42

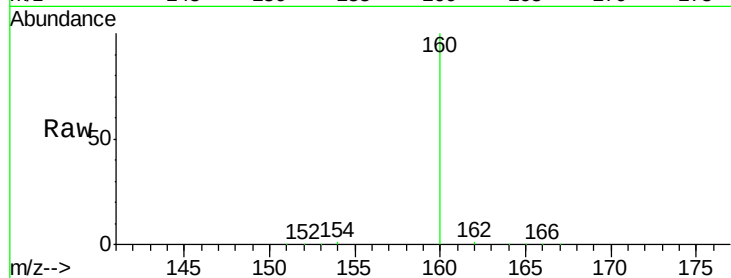
Tot Ion:152 Resp: 787

Ion Ratio Lower Upper

152 100

151 46.1 17.6 26.4#

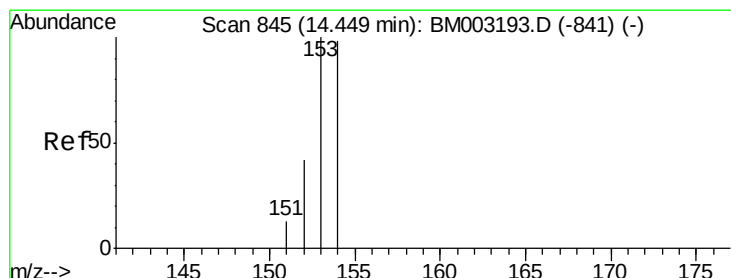
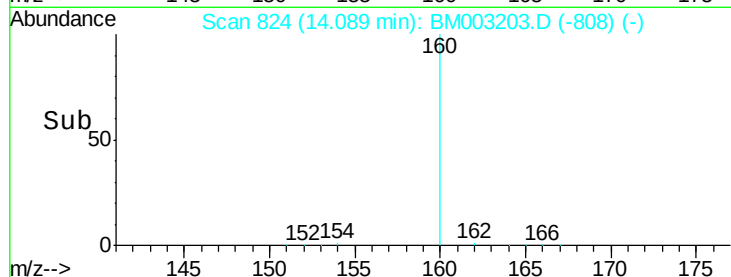
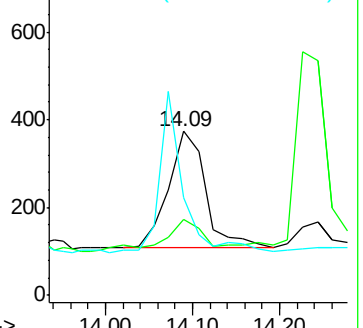
153 59.2 9.7 14.5#



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



#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.45 min Scan# 845

Delta R.T. -0.00 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

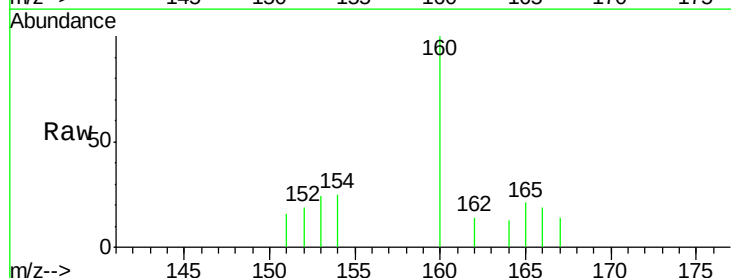
Tgt Ion:153 Resp: 278

Ion Ratio Lower Upper

153 100

152 79.4 33.9 50.9#

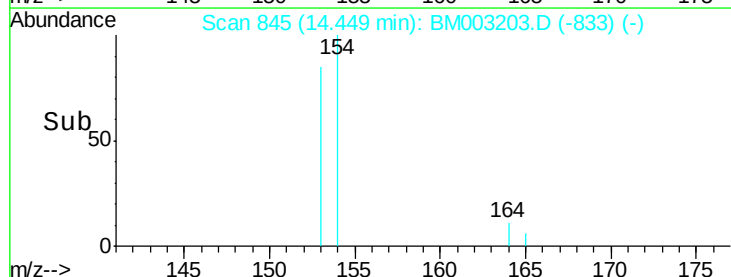
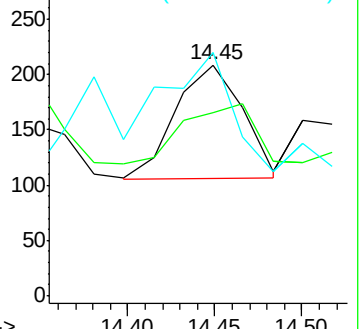
154 105.3 80.6 121.0

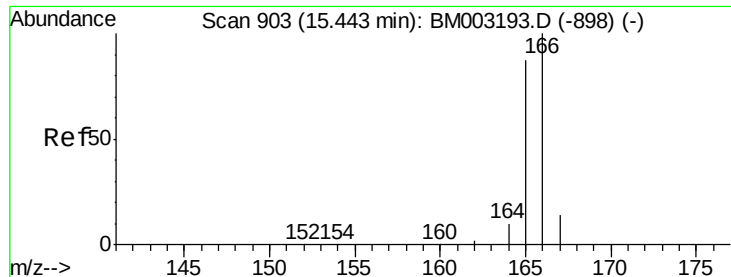


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

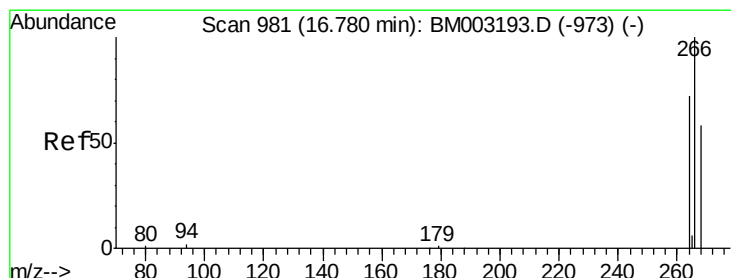
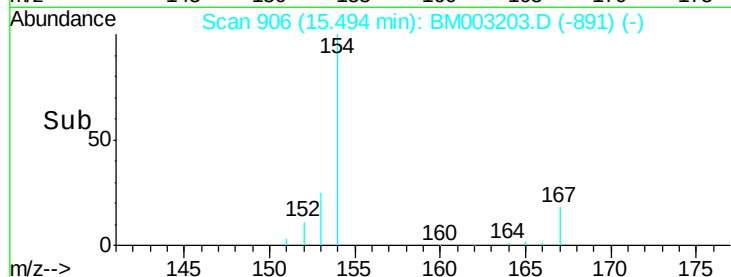
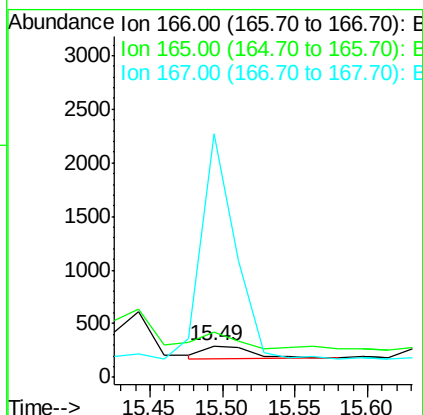
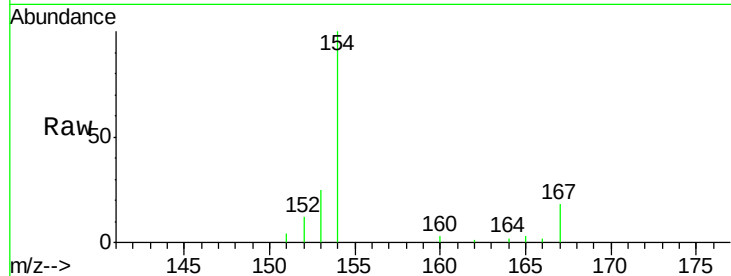




#11  
Fluorene  
Concen: 0.00 ng/ul  
RT: 15.49 min Scan# 906  
Delta R.T. 0.05 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

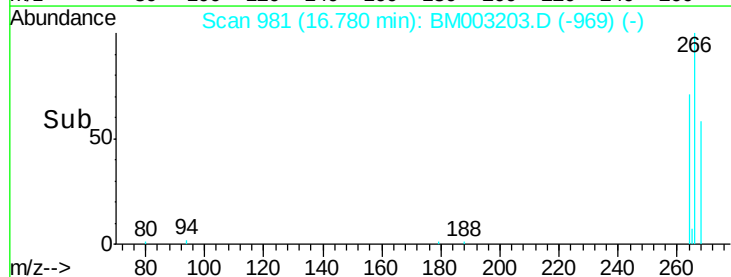
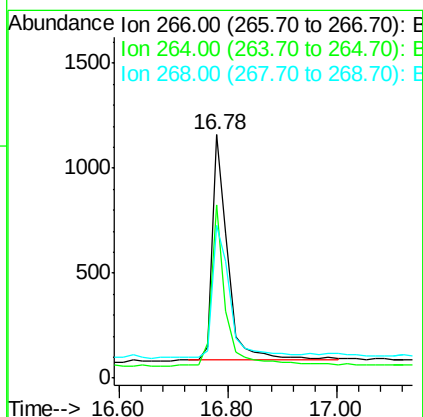
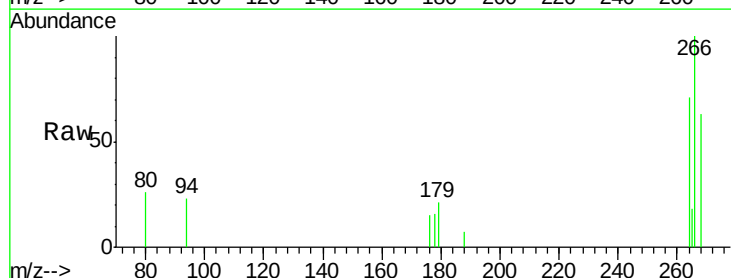
Instrument :  
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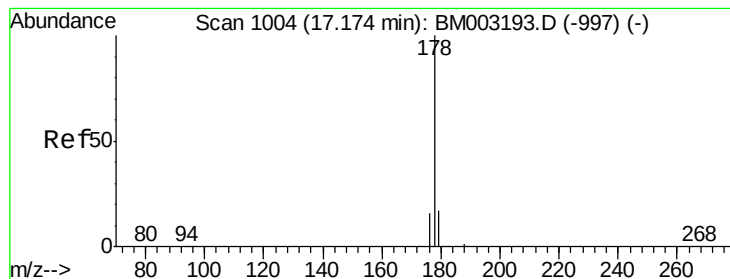
Tot Ion:166 Resp: 308  
Ion Ratio Lower Upper  
166 100  
165 144.7 69.6 104.4#  
167 769.5 11.9 17.9#



#13  
Pentachlorophenol  
Concen: 0.00 ng/ul  
RT: 16.78 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

Tgt Ion:266 Resp: 2161  
Ion Ratio Lower Upper  
266 100  
264 65.2 0.3 0.5#  
268 65.5 0.0 0.0#





#14

Phenanthrene

Concen: 0.00 ng/ul

RT: 17.17 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

Instrument :

BNA\_M

ClientSampleId :

A4J42

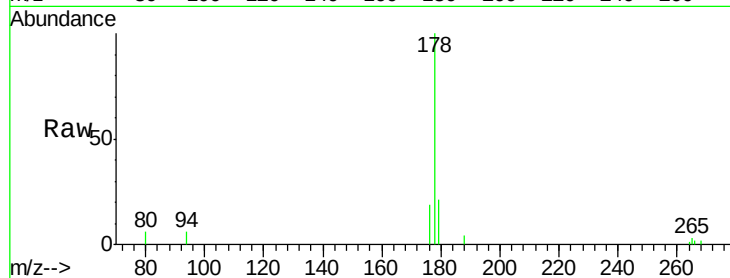
Tot Ion:178 Resp: 8951

Ion Ratio Lower Upper

178 100

176 18.7 13.0 19.4

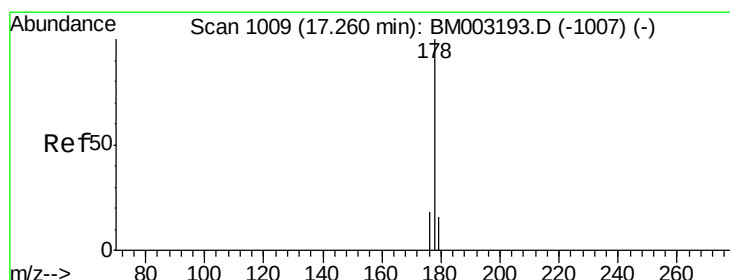
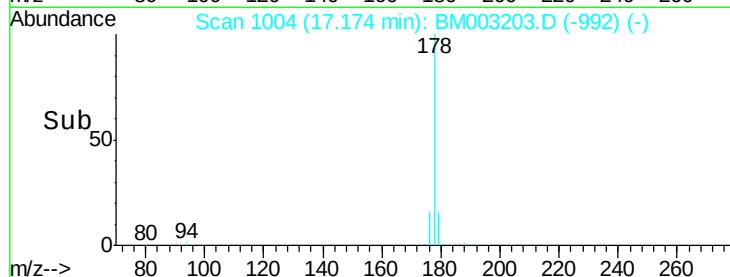
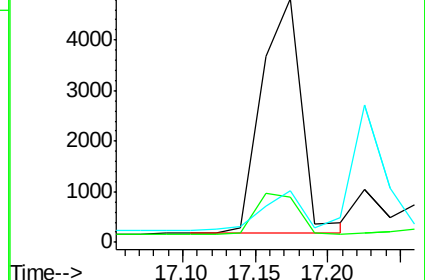
179 21.0 14.2 21.2



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

Anthracene

Concen: 0.00 ng/ul

RT: 17.23 min Scan# 1007

Delta R.T. -0.03 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

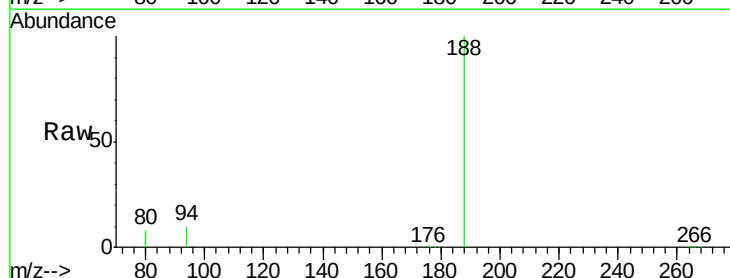
Tgt Ion:178 Resp: 2017

Ion Ratio Lower Upper

178 100

176 17.2 14.0 21.0

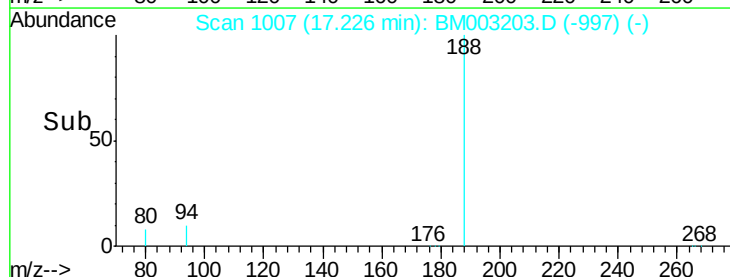
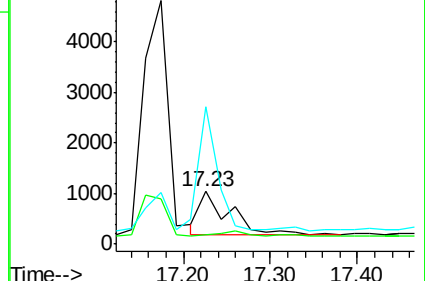
179 260.0 12.9 19.3#

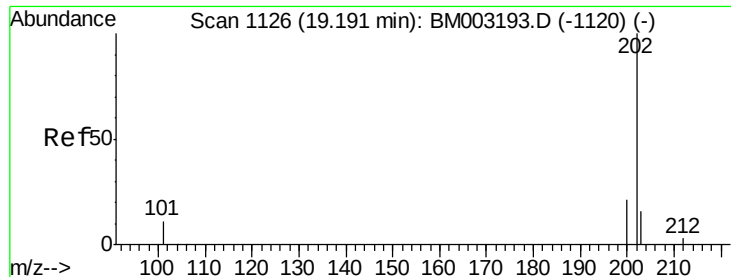


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

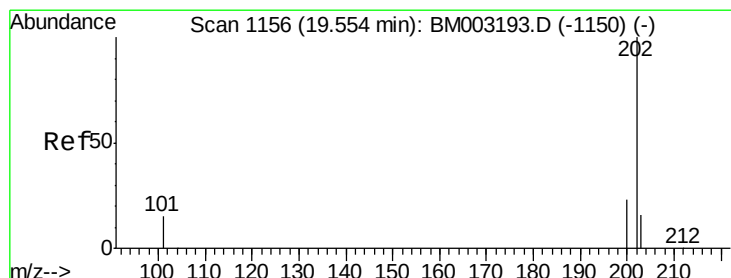
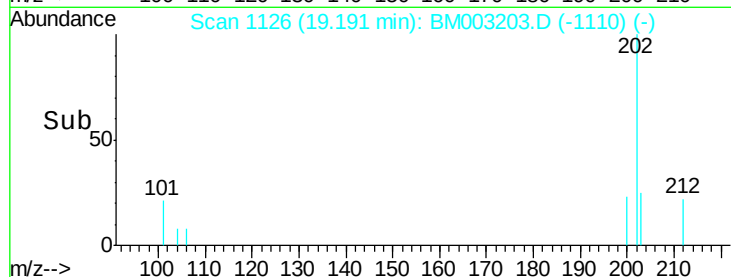
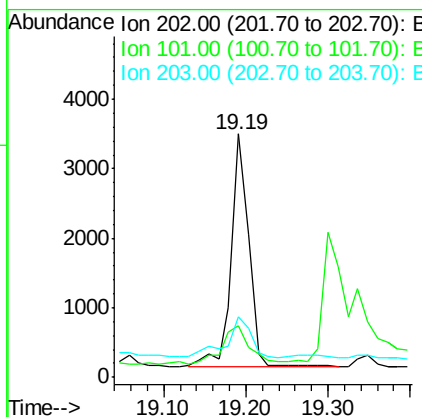
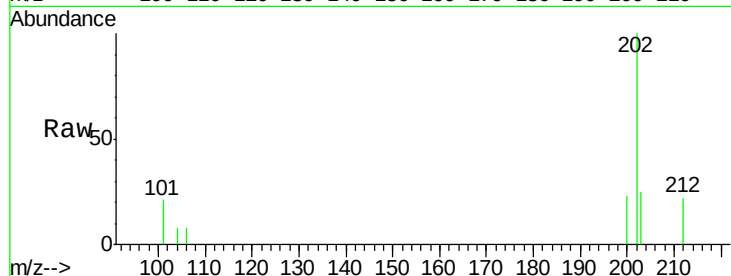




#17  
Fluoranthene  
Concen: 0.00 ng/ul  
RT: 19.19 min Scan# 1126  
Delta R.T. -0.00 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

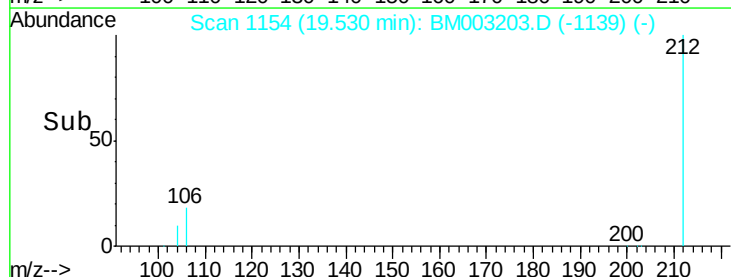
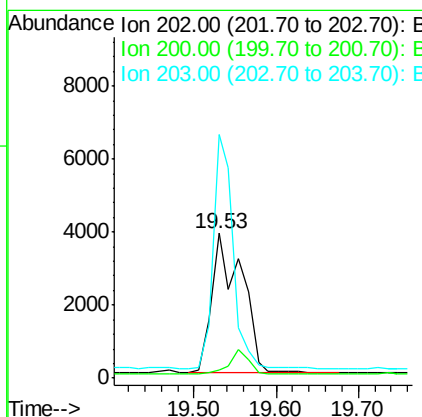
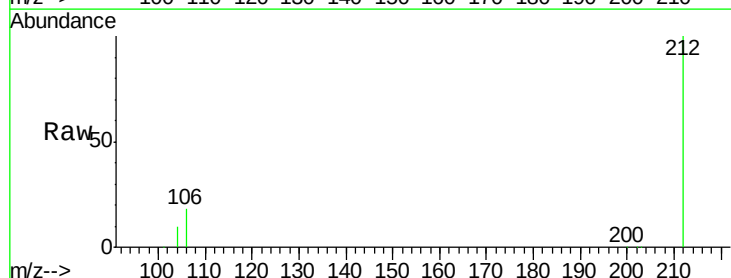
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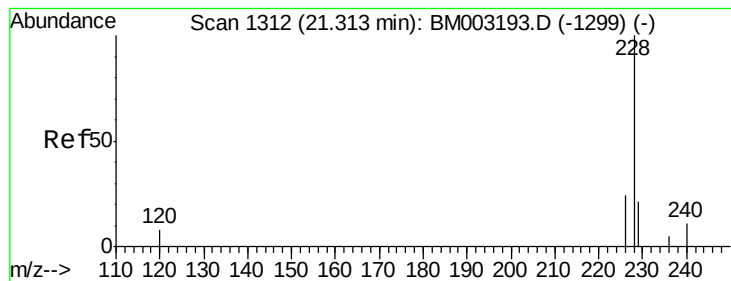
Tot Ion:202 Resp: 4911  
Ion Ratio Lower Upper  
202 100  
101 21.3 0.0 29.6  
203 24.7 0.0 36.3



#19  
Pyrene  
Concen: 0.05 ng/ul  
RT: 19.53 min Scan# 1154  
Delta R.T. -0.02 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

Tgt Ion:202 Resp: 9788  
Ion Ratio Lower Upper  
202 100  
200 5.6 17.8 26.8#  
203 168.3 12.8 19.2#





#20

Benzo(a)anthracene

Concen: 0.01 ng/ul

RT: 21.30 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

Instrument :

BNA\_M

ClientSampleId :

A4J42

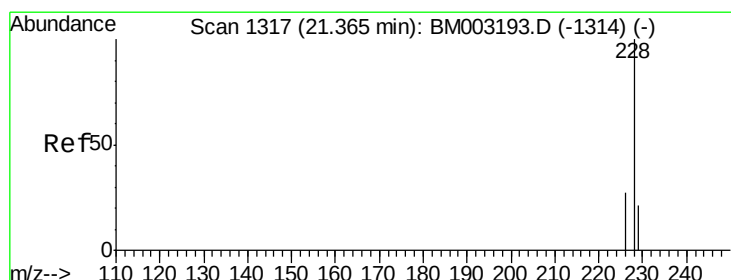
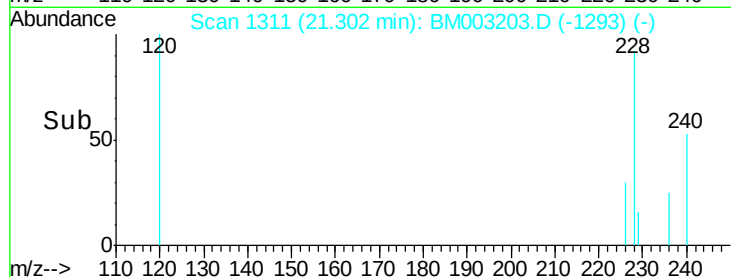
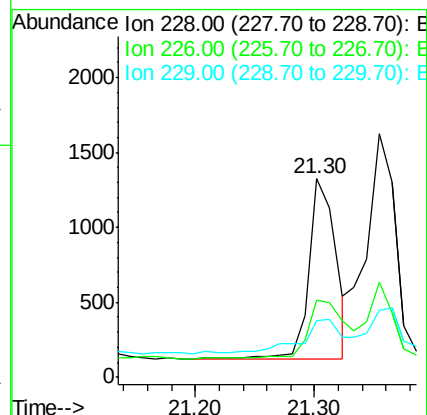
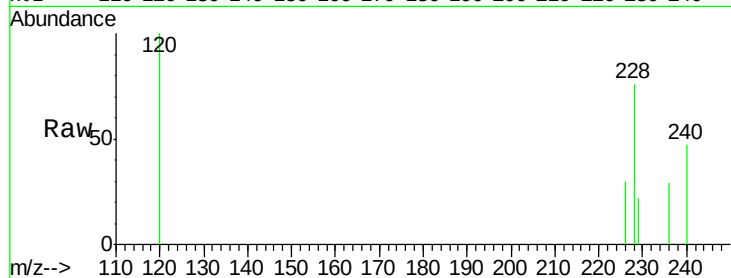
Tot Ion:228 Resp: 1901

Ion Ratio Lower Upper

228 100

226 38.8 18.8 28.2#

229 28.7 17.1 25.7#



#21

Chrysene

Concen: 0.01 ng/ul

RT: 21.35 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

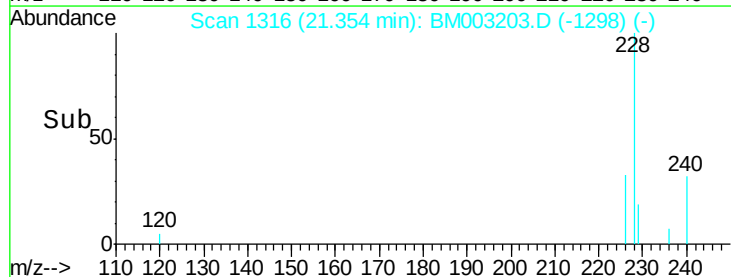
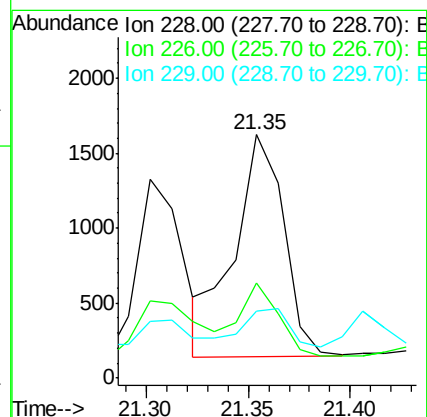
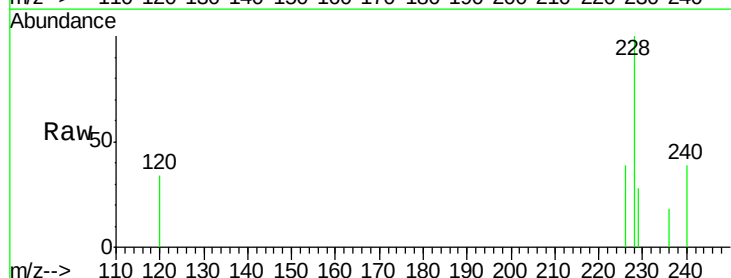
Tgt Ion:228 Resp: 2481

Ion Ratio Lower Upper

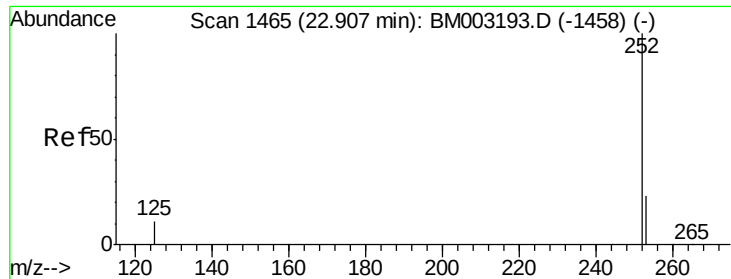
228 100

226 39.2 21.2 31.8#

229 27.6 17.0 25.6#







#23

Benzo(b)fluoranthene

Concen: 0.00 ng/ul

RT: 22.75 min Scan# 1450

Delta R.T. -0.16 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

Instrument :

BNA\_M

ClientSampleId :

A4J42

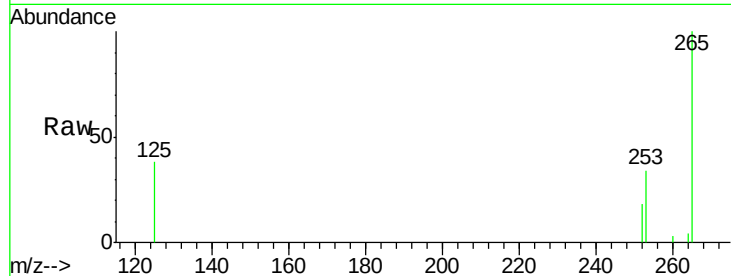
Tot Ion:252 Resp: 99

Ion Ratio Lower Upper

252 100

253 185.3 0.0 45.4#

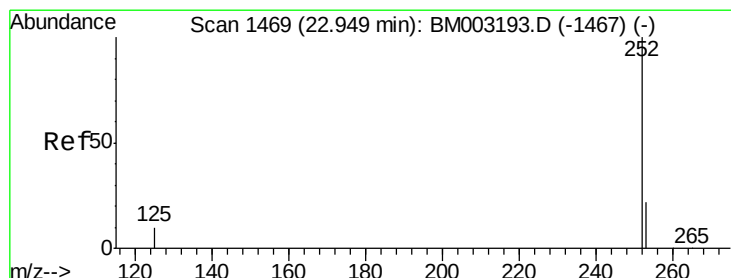
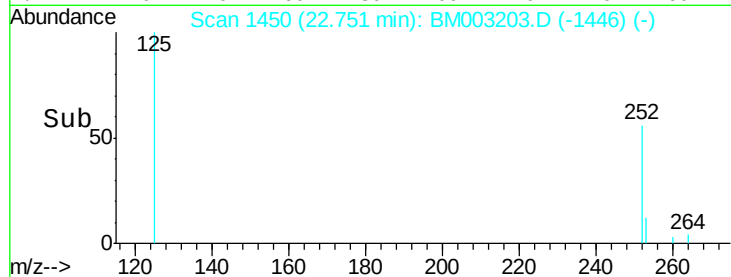
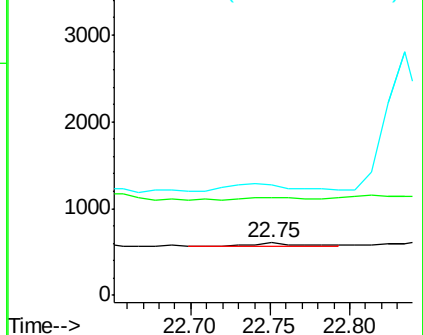
125 209.6 0.0 28.8#



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



#24

Benzo(k)fluoranthene

Concen: 0.00 ng/ul

RT: 22.90 min Scan# 1464

Delta R.T. -0.05 min

Lab File: BM003203.D

Acq: 19 Nov 2015 23:09

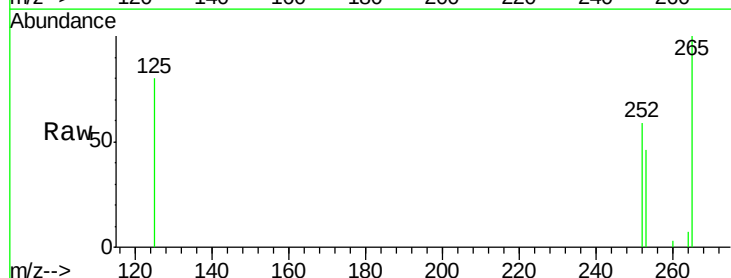
Tgt Ion:252 Resp: 4394

Ion Ratio Lower Upper

252 100

253 79.0 19.8 29.8#

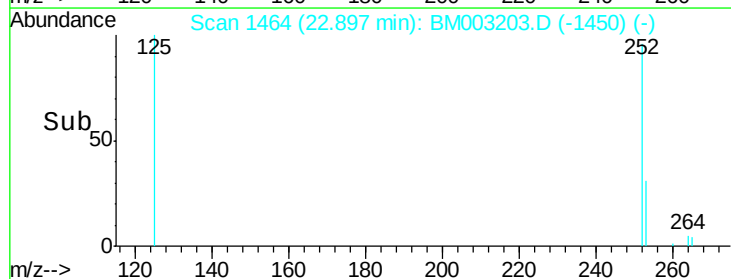
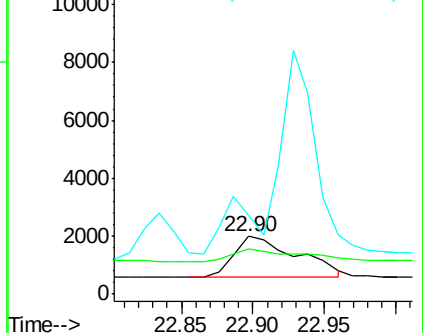
125 136.5 10.4 15.6#

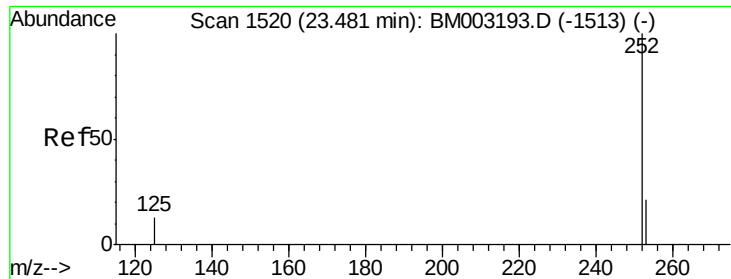


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

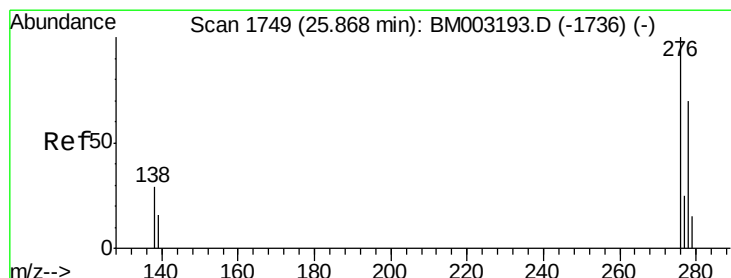
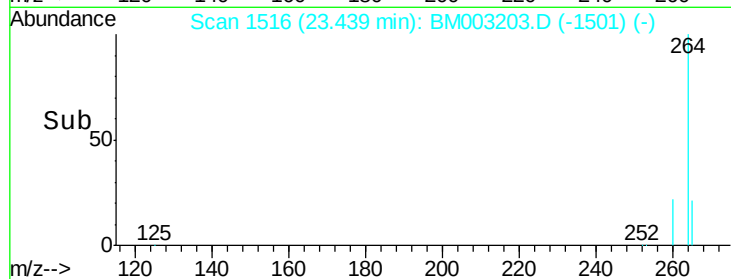
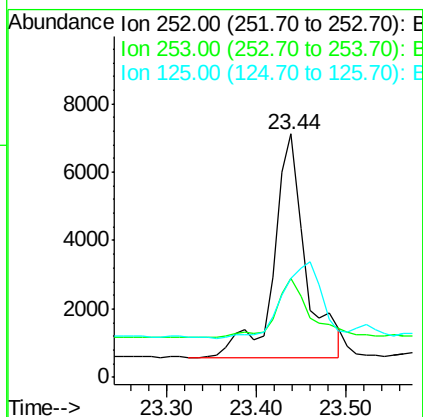
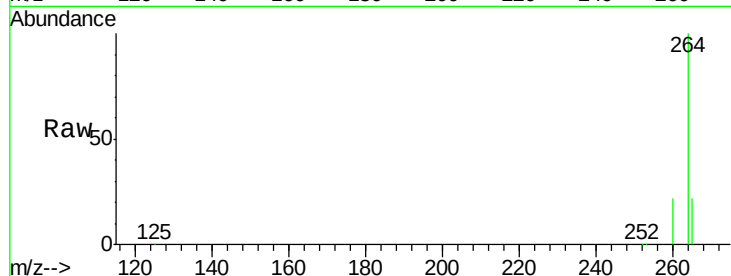




#25  
Benzo(a)pyrene  
Concen: 0.00 ng/ul  
RT: 23.44 min Scan# 1516  
Delta R.T. -0.04 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

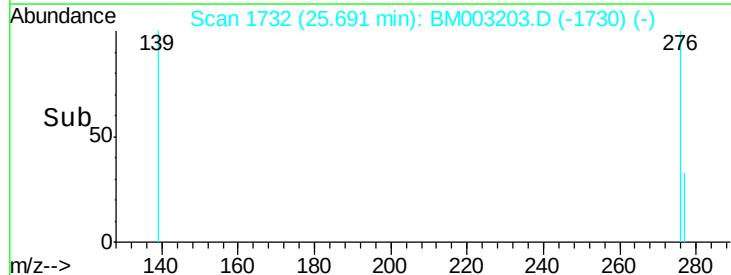
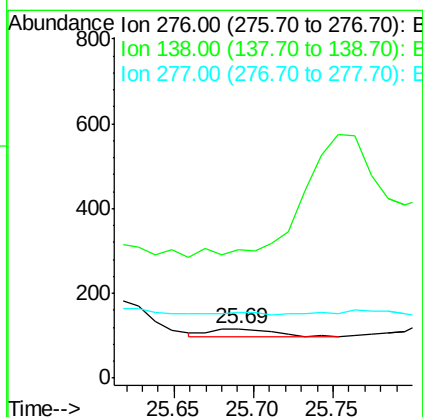
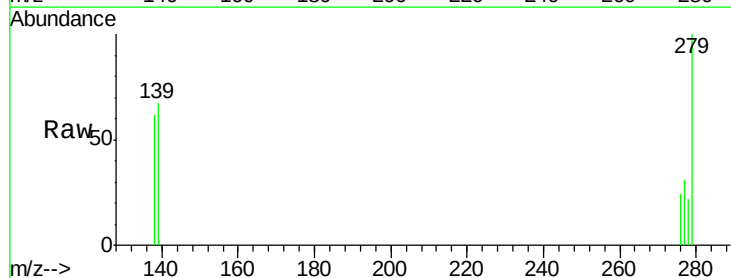
Instrument :  
BNA\_M  
ClientSampleId :  
A4J42

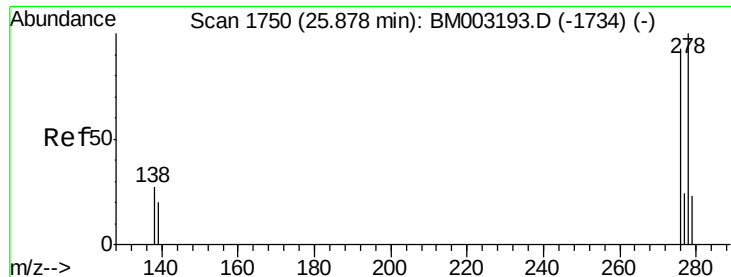
Tot Ion:252 Resp: 16196  
Ion Ratio Lower Upper  
252 100  
253 40.8 19.4 29.2#  
125 40.4 12.7 19.1#



#26  
Indeno(1,2,3-cd)pyrene  
Concen: 0.00 ng/ul  
RT: 25.69 min Scan# 1732  
Delta R.T. -0.18 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

Tgt Ion:276 Resp: 46  
Ion Ratio Lower Upper  
276 100  
138 0.0 0.0 0.0  
277 0.0 0.0 0.0

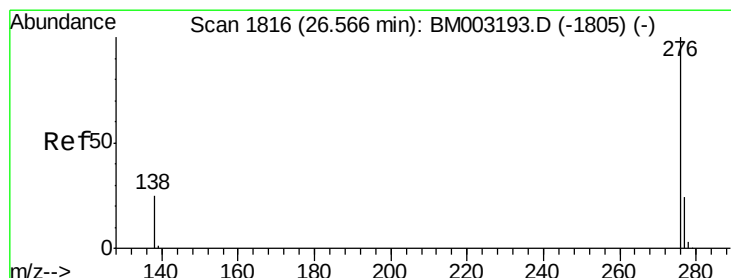
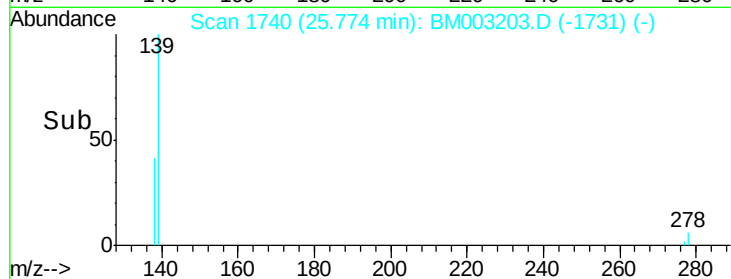
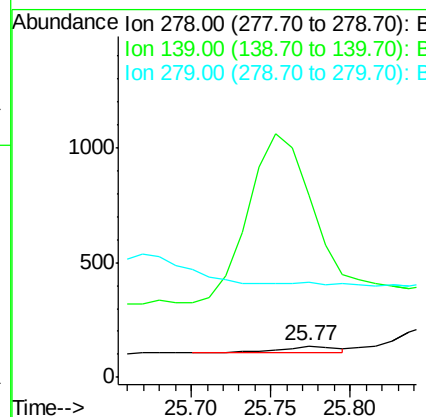
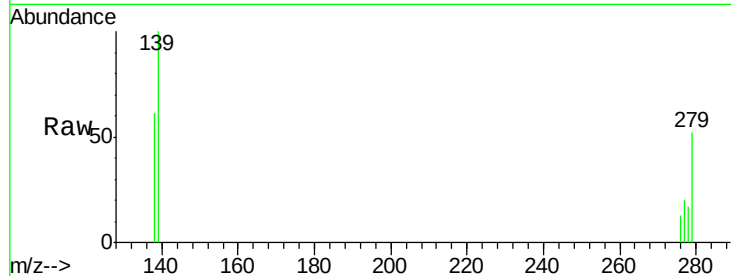




#27  
Dibenzo(a,h)anthracene  
Concen: 0.00 ng/ul  
RT: 25.77 min Scan# 1740  
Delta R.T. -0.10 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

Instrument :  
BNA\_M  
ClientSampled :  
A4J42

Tot Ion:278 Resp: 83  
Ion Ratio Lower Upper  
278 100  
139 581.6 16.4 24.6#  
279 303.7 20.2 30.2#



#28  
Benzo(g,h,i)perylene  
Concen: 0.00 ng/ul  
RT: 26.42 min Scan# 1802  
Delta R.T. -0.15 min  
Lab File: BM003203.D  
Acq: 19 Nov 2015 23:09

Tgt Ion:276 Resp: 166  
Ion Ratio Lower Upper  
276 100  
277 116.9 18.9 28.3#  
138 240.0 22.5 33.7#

