

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM092216\  
 Data File : BM007514.D  
 Acq On : 22 Sep 2016 16:52  
 Operator : UM/SJ  
 Sample : H4830-09DL 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4VH7DL

Quant Time: Sep 22 18:18:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM092116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 22 01:26:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 1479     | 0.40 | ng/ul | 0.02     |
| 2) Naphthalene-d8         | 10.58 | 136  | 5408     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.43 | 164  | 3843     | 0.40 | ng/ul | 0.02     |
| 10) Phenanthrene-d10      | 17.18 | 188  | 8615     | 0.40 | ng/ul | 0.02     |
| 16) Chrysene-d12          | 21.35 | 240  | 9842     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.62 | 264  | 8954     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.21 | 152  | 1222     | 0.19 | ng/ul | 0.03     |
| 14) Fluoranthene-d10        | 19.20 | 212  | 4683     | 0.23 | ng/ul | 0.00     |

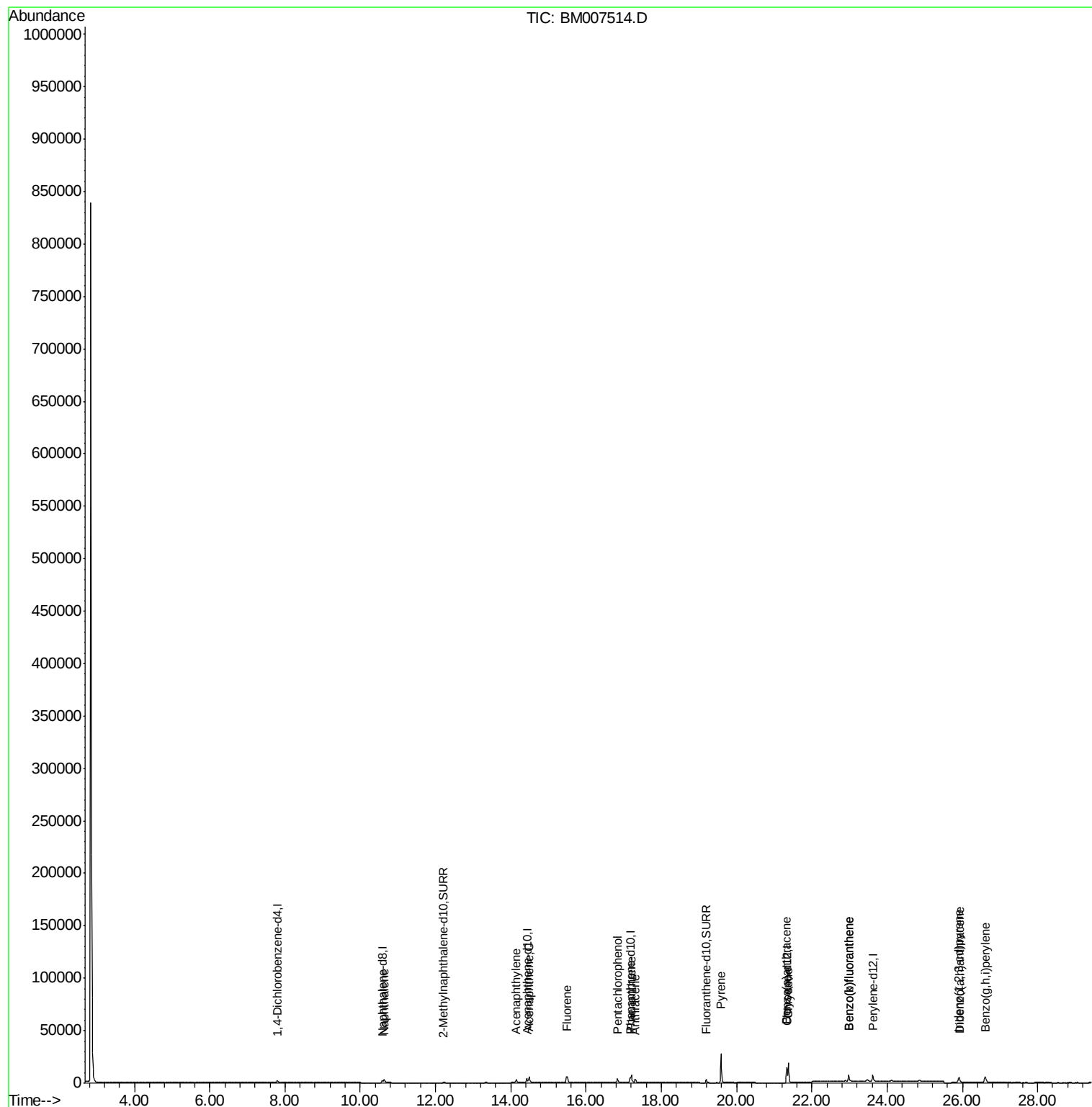
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.63 | 128  | 6551     | 0.52 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.14 | 152  | 6543     | 0.40 | ng/ul  | 98     |
| 8) Acenaphthene            | 14.49 | 153  | 5103     | 0.40 | ng/ul  | 96     |
| 9) Fluorene                | 15.50 | 166  | 7516     | 0.48 | ng/ul  | 92     |
| 11) Pentachlorophenol      | 16.83 | 266  | 3774     | 1.60 | ng/ul  | 98     |
| 12) Phenanthrene           | 17.21 | 178  | 10361    | 0.44 | ng/ul  | 99     |
| 13) Anthracene             | 17.30 | 178  | 6171     | 0.29 | ng/ul  | 98     |
| 17) Pyrene                 | 19.59 | 202  | 29297    | 0.90 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.33 | 228  | 13388    | 0.46 | ng/ul  | 95     |
| 19) Chrysene               | 21.38 | 228  | 18867    | 0.61 | ng/ul  | 96     |
| 21) Benzo(b)fluoranthene   | 22.98 | 252  | 9012     | 0.30 | ng/ul  | 95     |
| 22) Benzo(k)fluoranthene   | 22.98 | 252  | 9100     | 0.30 | ng/ul  | 96     |
| 24) Indeno(1,2,3-cd)pyrene | 25.90 | 276  | 12629    | 0.44 | ng/ul# | 94     |
| 25) Dibenzo(a,h)anthracene | 25.91 | 278  | 660      | 0.03 | ng/ul# | 12     |
| 26) Benzo(g,h,i)perylene   | 26.60 | 276  | 14205    | 0.55 | ng/ul  | 99     |

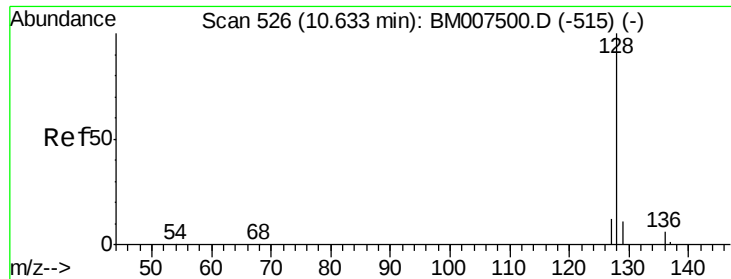
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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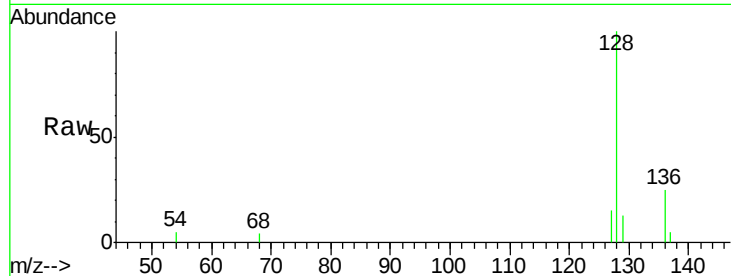




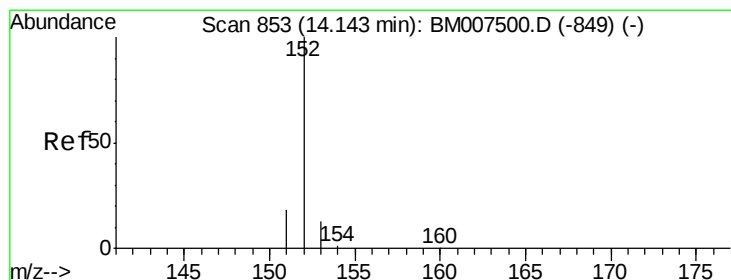
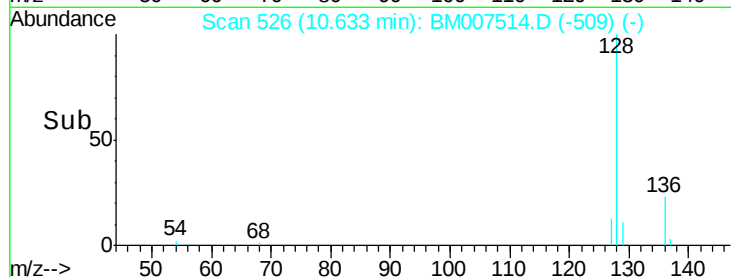
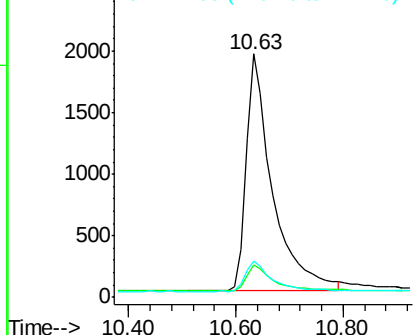
#3  
Naphthalene  
Concen: 0.52 ng/ul  
RT: 10.63 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: BM007514.D  
Acq: 22 Sep 2016 16:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4VH7DL

Tgt Ion:128 Resp: 6551  
Ion Ratio Lower Upper  
128 100  
129 13.2 10.7 16.1  
127 15.1 11.3 16.9

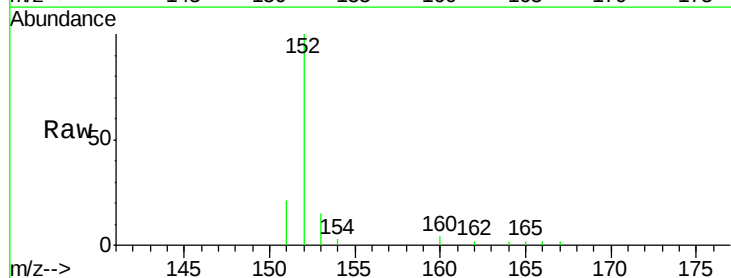


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

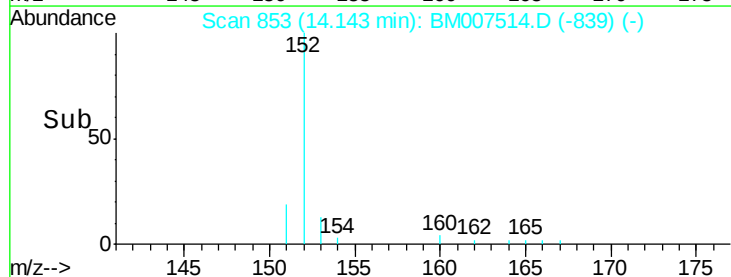
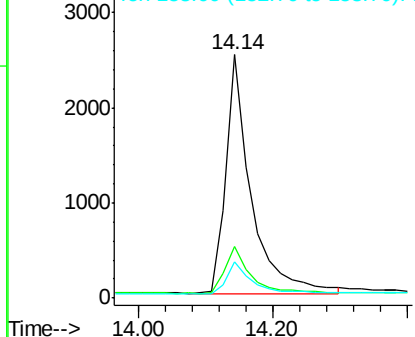


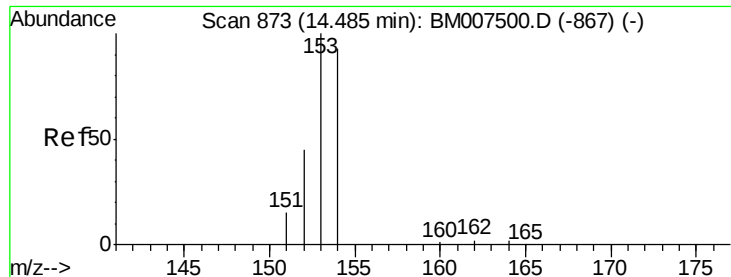
#7  
Acenaphthylene  
Concen: 0.40 ng/ul  
RT: 14.14 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: BM007514.D  
Acq: 22 Sep 2016 16:52

Tgt Ion:152 Resp: 6543  
Ion Ratio Lower Upper  
152 100  
151 20.9 15.8 23.8  
153 14.8 12.2 18.2



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: 0.40 ng/ul

RT: 14.49 min Scan# 873

Delta R.T. 0.00 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

Instrument :

BNA\_M

ClientSampleId :

A4VH7DL

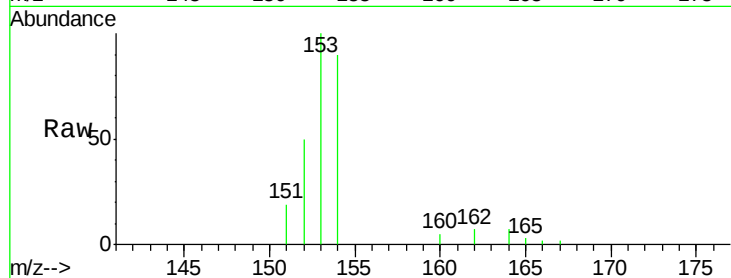
Tgt Ion:153 Resp: 5103

Ion Ratio Lower Upper

153 100

152 50.3 37.6 56.4

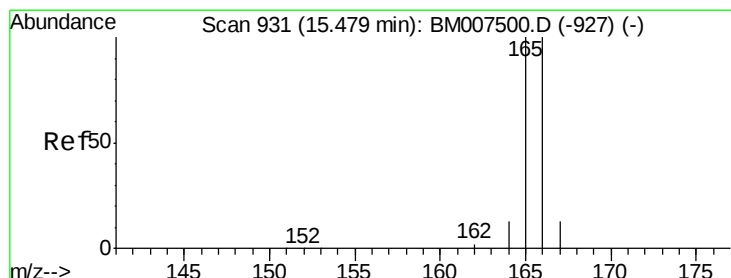
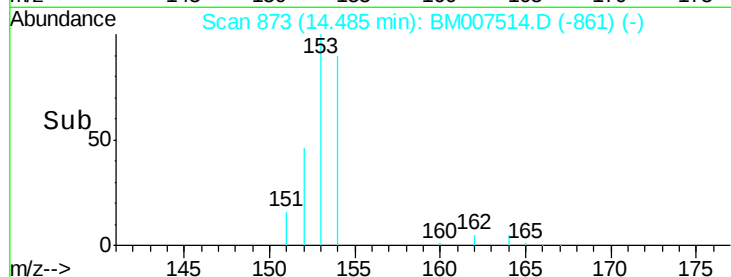
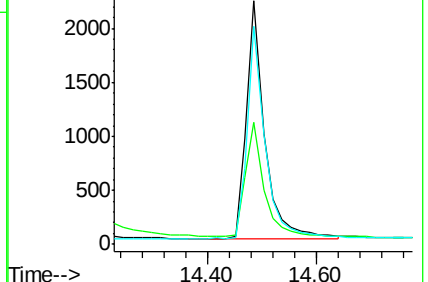
154 89.5 74.6 112.0



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



#9

Fluorene

Concen: 0.48 ng/ul

RT: 15.50 min Scan# 932

Delta R.T. 0.02 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

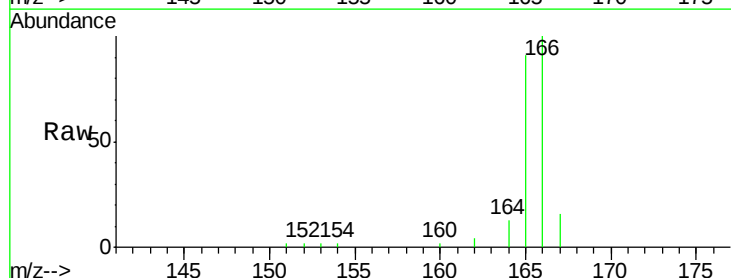
Tgt Ion:166 Resp: 7516

Ion Ratio Lower Upper

166 100

165 91.0 79.8 119.8

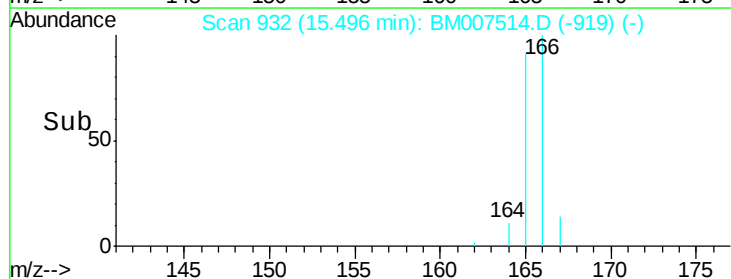
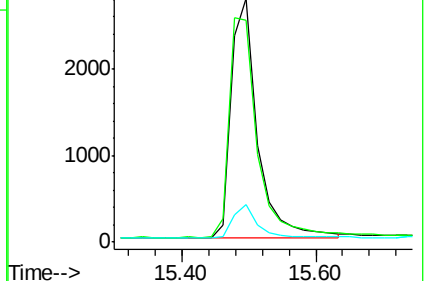
167 15.5 11.5 17.3

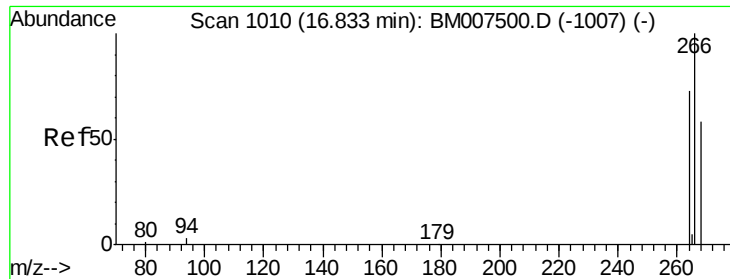


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

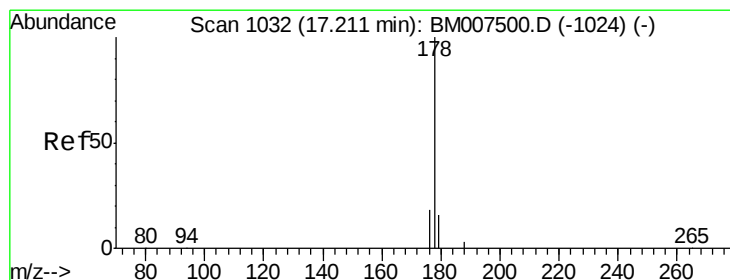
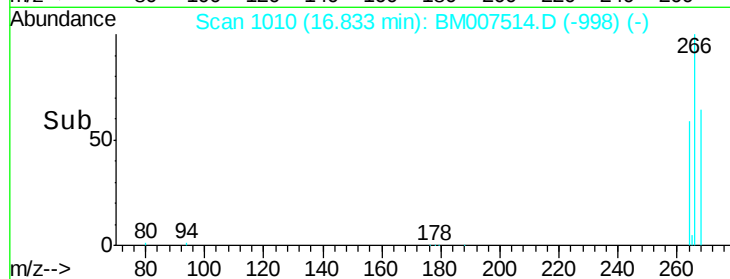
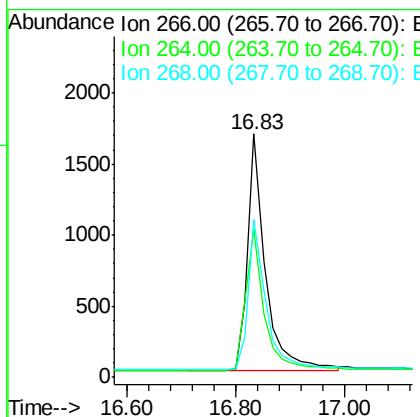
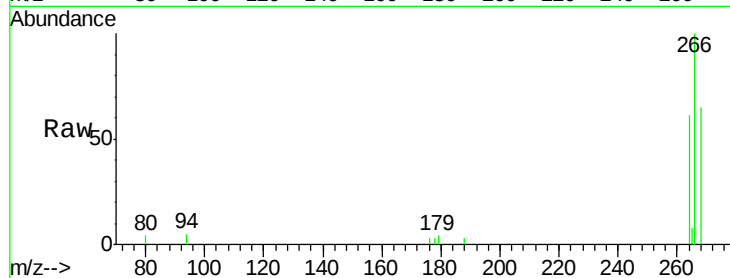




#11  
 Pentachlorophenol  
 Concen: 1.60 ng/ul  
 RT: 16.83 min Scan# 1010  
 Delta R.T. 0.00 min  
 Lab File: BM007514.D  
 Acq: 22 Sep 2016 16:52

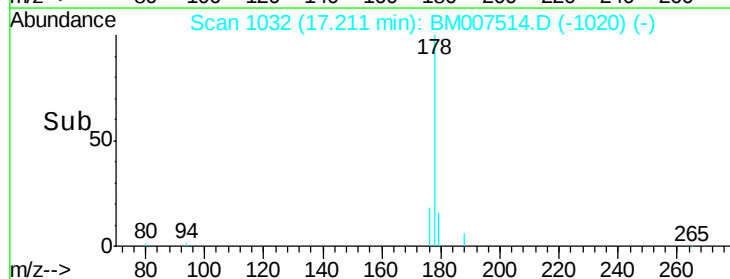
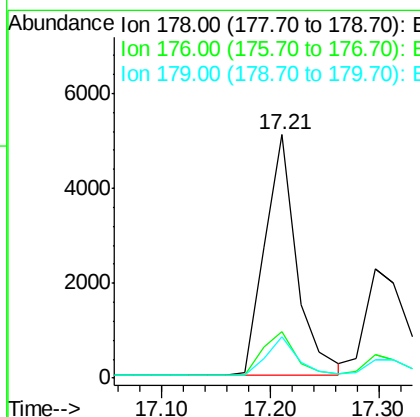
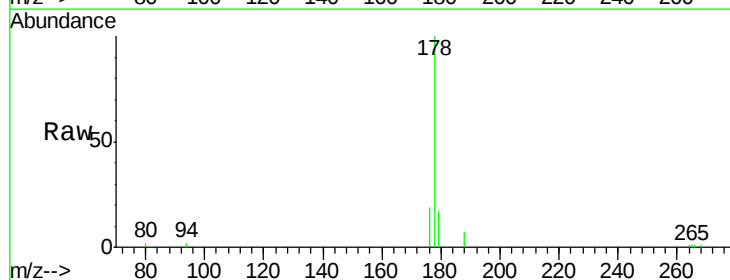
Instrument :  
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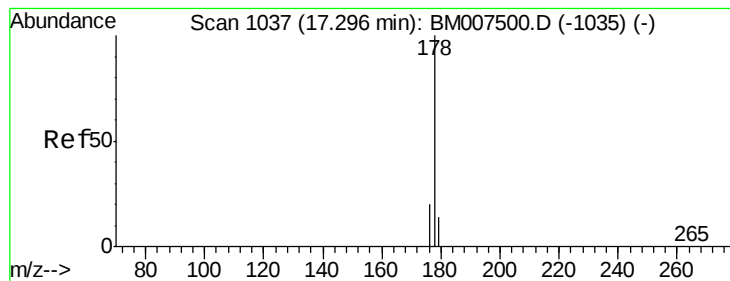
Tgt Ion: 266 Resp: 3774  
 Ion Ratio Lower Upper  
 266 100  
 264 62.8 51.4 77.2  
 268 63.9 52.9 79.3



#12  
 Phenanthrene  
 Concen: 0.44 ng/ul  
 RT: 17.21 min Scan# 1032  
 Delta R.T. 0.00 min  
 Lab File: BM007514.D  
 Acq: 22 Sep 2016 16:52

Tgt Ion: 178 Resp: 10361  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 14.9 22.3  
 179 16.8 13.7 20.5





#13

Anthracene

Concen: 0.29 ng/ul

RT: 17.30 min Scan# 1037

Delta R.T. 0.00 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

Instrument :

BNA\_M

ClientSampleId :

A4VH7DL

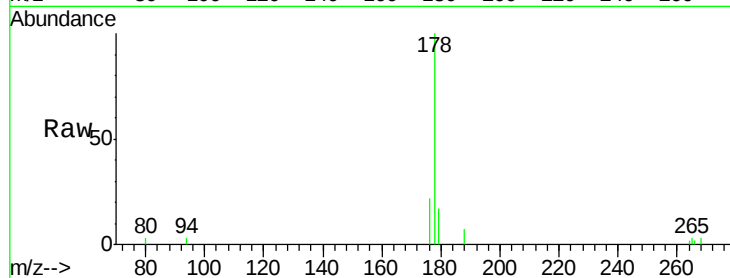
Tgt Ion:178 Resp: 6171

Ion Ratio Lower Upper

178 100

176 21.7 16.6 24.8

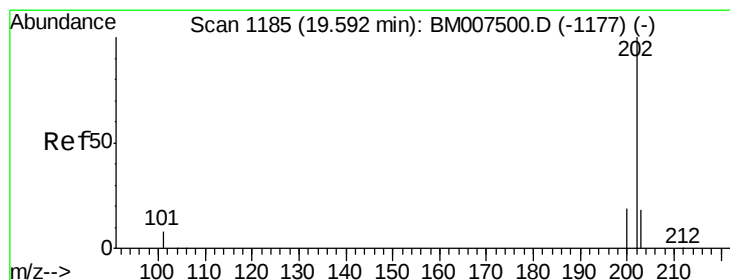
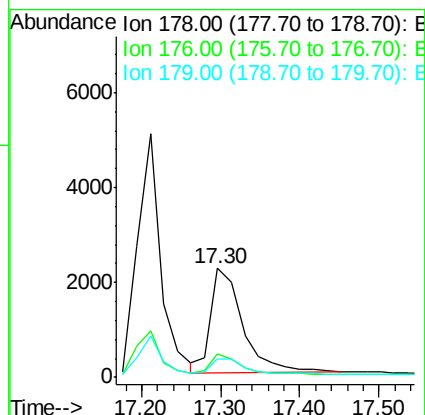
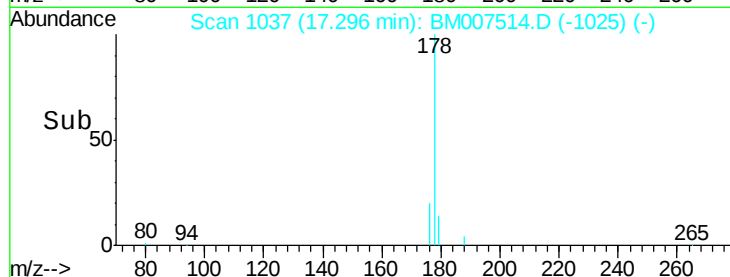
179 16.7 12.5 18.7



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

Pyrene

Concen: 0.90 ng/ul

RT: 19.59 min Scan# 1184

Delta R.T. -0.01 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

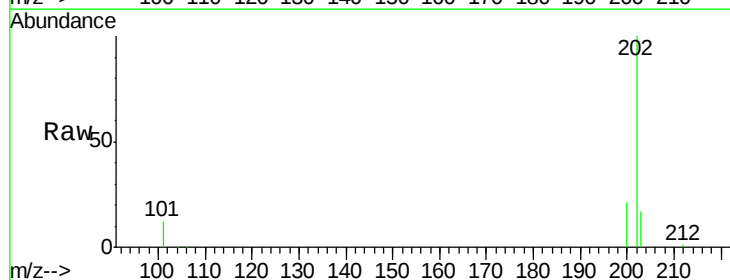
Tgt Ion:202 Resp: 29297

Ion Ratio Lower Upper

202 100

200 21.1 15.9 23.9

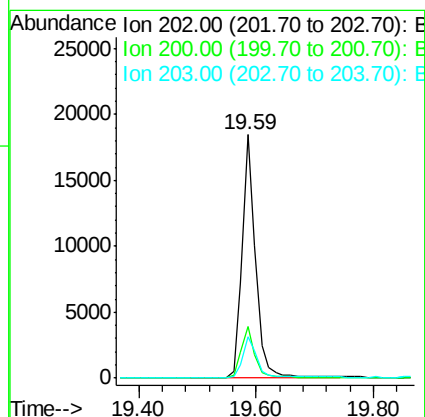
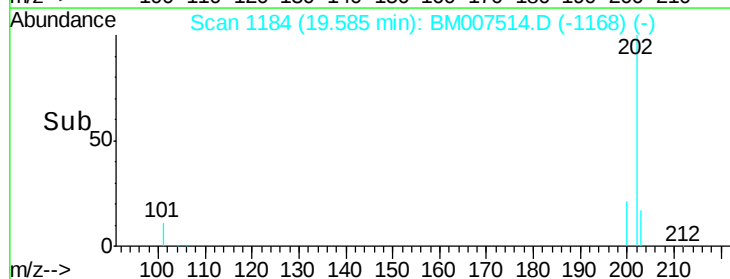
203 17.1 15.0 22.4

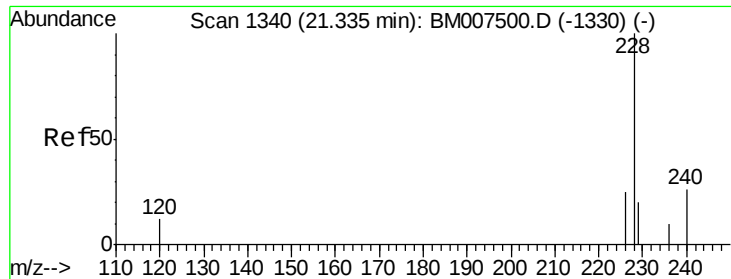


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.46 ng/ul

RT: 21.33 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

Instrument :

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ClientSampleId :

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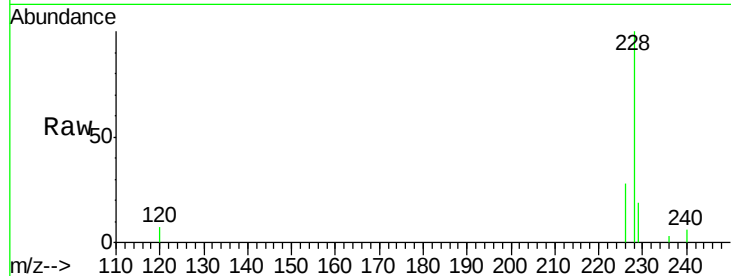
Tgt Ion:228 Resp: 13388

Ion Ratio Lower Upper

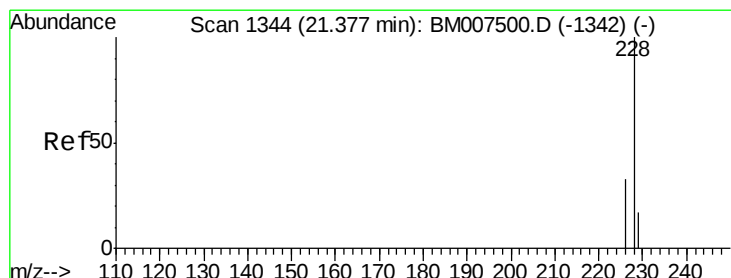
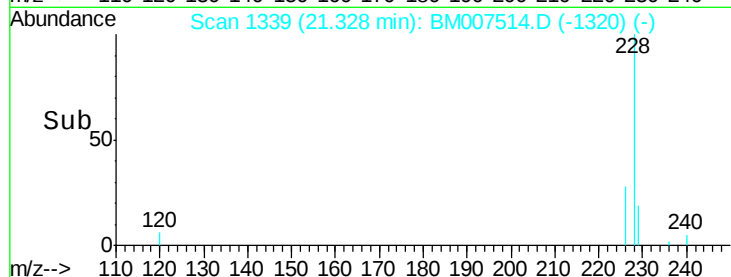
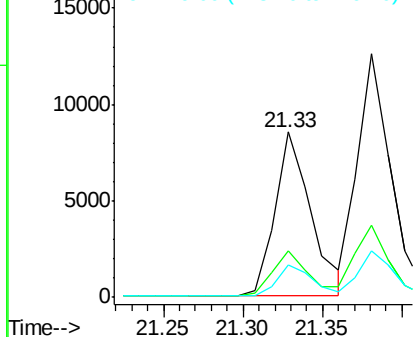
228 100

226 28.2 20.2 30.4

229 19.4 16.7 25.1



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: 0.61 ng/ul

RT: 21.38 min Scan# 1344

Delta R.T. 0.00 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

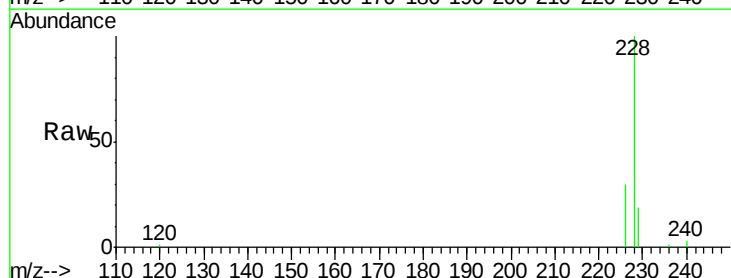
Tgt Ion:228 Resp: 18867

Ion Ratio Lower Upper

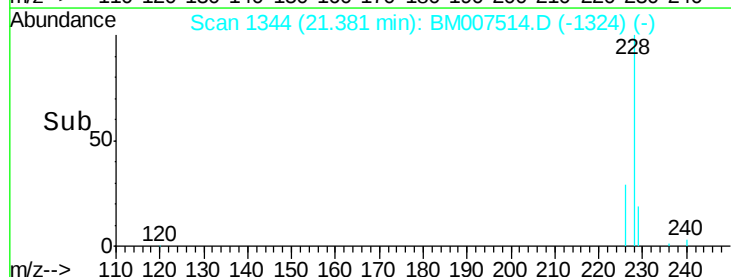
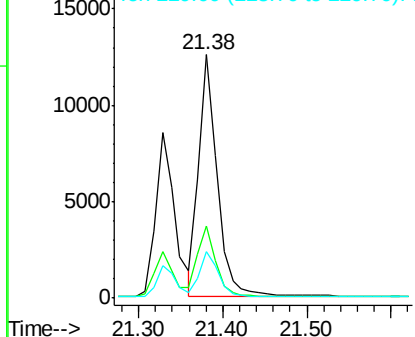
228 100

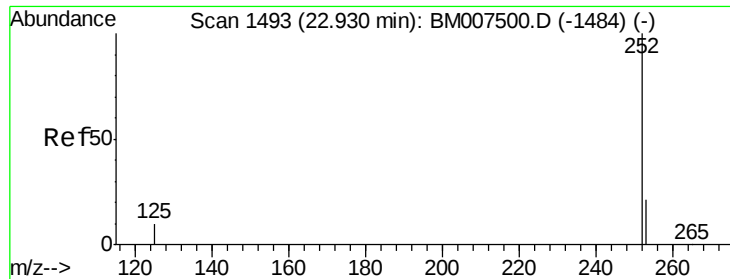
226 29.8 25.9 38.9

229 19.2 14.7 22.1



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: 0.30 ng/ul

RT: 22.98 min Scan# 1497

Delta R.T. 0.05 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

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ClientSampleId :

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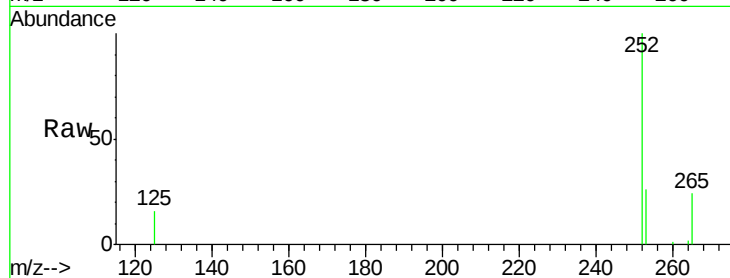
Tgt Ion:252 Resp: 9012

Ion Ratio Lower Upper

252 100

253 26.3 0.0 49.2

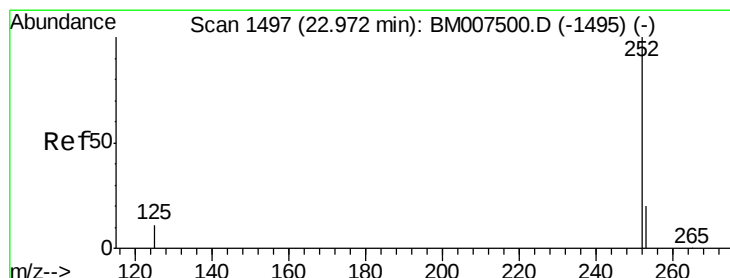
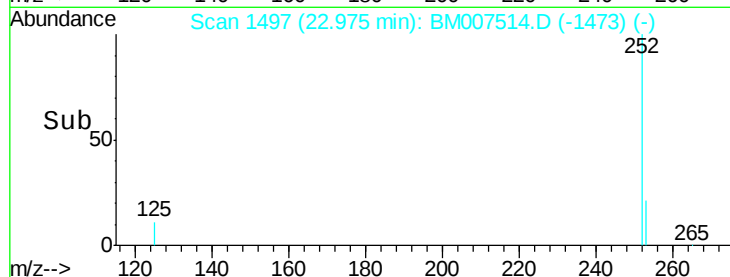
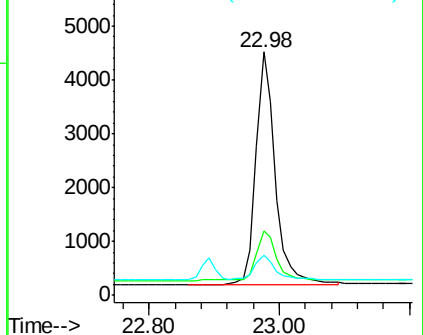
125 16.5 0.0 27.2



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: 0.30 ng/ul

RT: 22.98 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

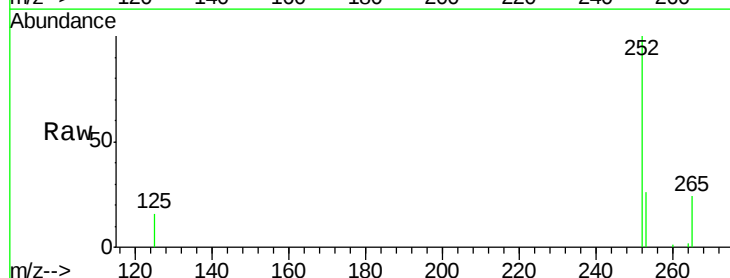
Tgt Ion:252 Resp: 9100

Ion Ratio Lower Upper

252 100

253 26.3 19.7 29.5

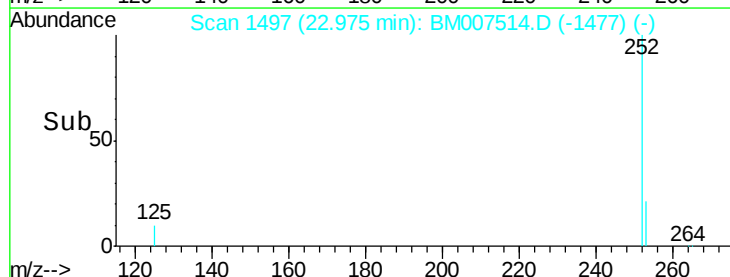
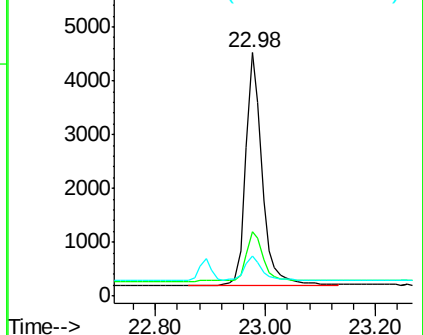
125 16.5 11.5 17.3

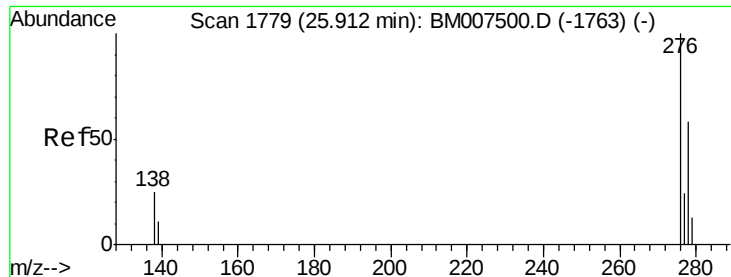


Abundance Ion 252.00 (251.70 to 252.70): E

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: 0.44 ng/ul

RT: 25.90 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

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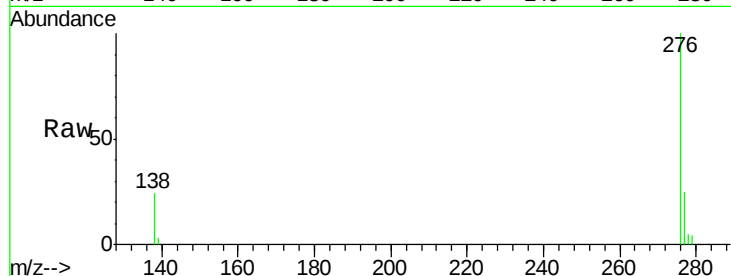
Tgt Ion:276 Resp: 12629

Ion Ratio Lower Upper

276 100

138 20.6 20.8 31.2#

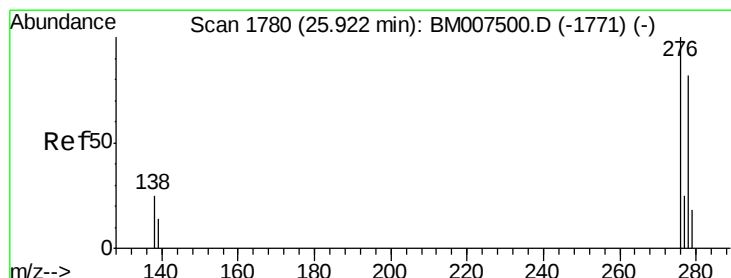
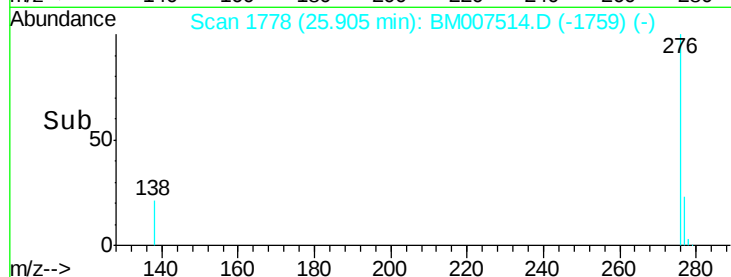
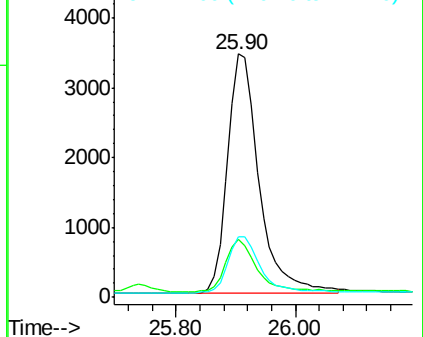
277 23.8 19.6 29.4



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: 0.03 ng/ul

RT: 25.91 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BM007514.D

Acq: 22 Sep 2016 16:52

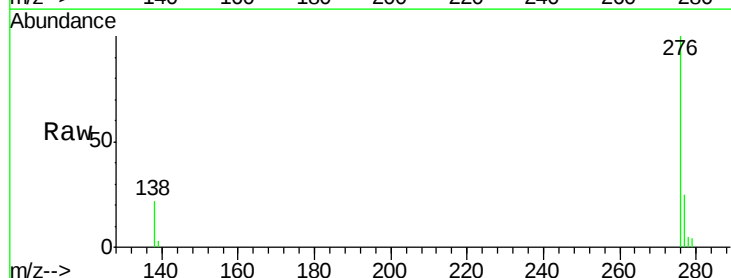
Tgt Ion:278 Resp: 660

Ion Ratio Lower Upper

278 100

139 64.6 16.9 25.3#

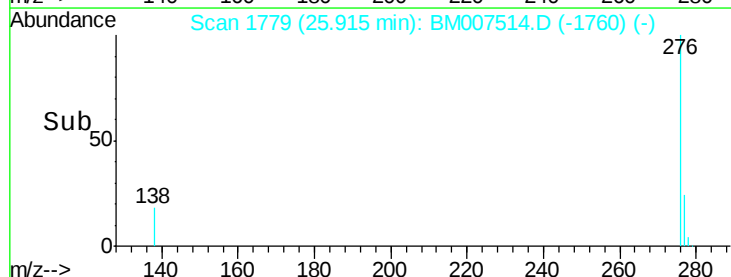
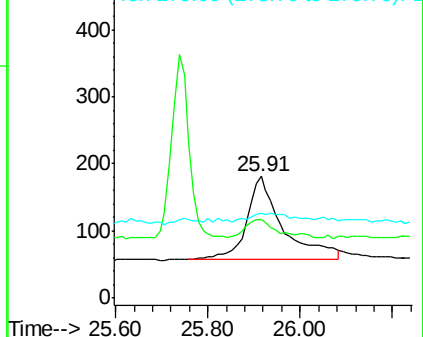
279 69.6 21.3 31.9#

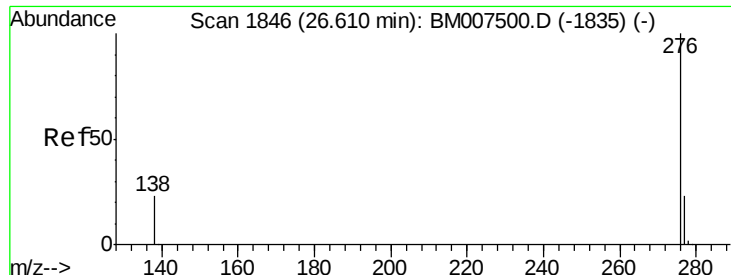


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#26

Benzo(g,h,i)perylene

Concen: 0.55 ng/ul

RT: 26.60 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BM007514.D

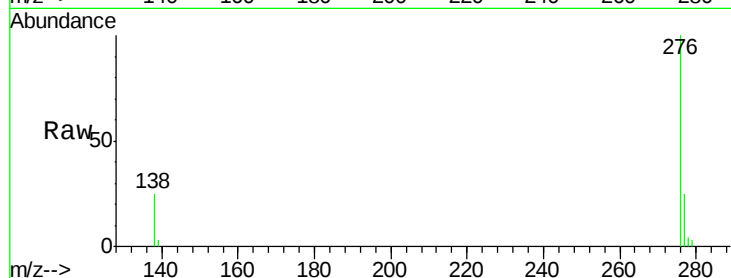
Acq: 22 Sep 2016 16:52

Instrument :

BNA\_M

ClientSampleId :

A4VH7DL



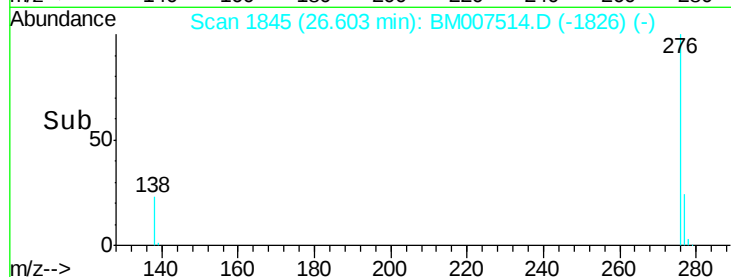
Tgt Ion: 276 Resp: 14205

Ion Ratio Lower Upper

276 100

277 25.0 20.5 30.7

138 25.4 20.3 30.5



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

