

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM040817\  
 Data File : BM009634.D  
 Acq On : 07 Apr 2017 18:14  
 Operator : SJ/MA  
 Sample : I2526-13  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB389

Quant Time: Apr 07 19:17:42 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM040417-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 07 03:19:28 2017  
 Response via : Initial Calibration

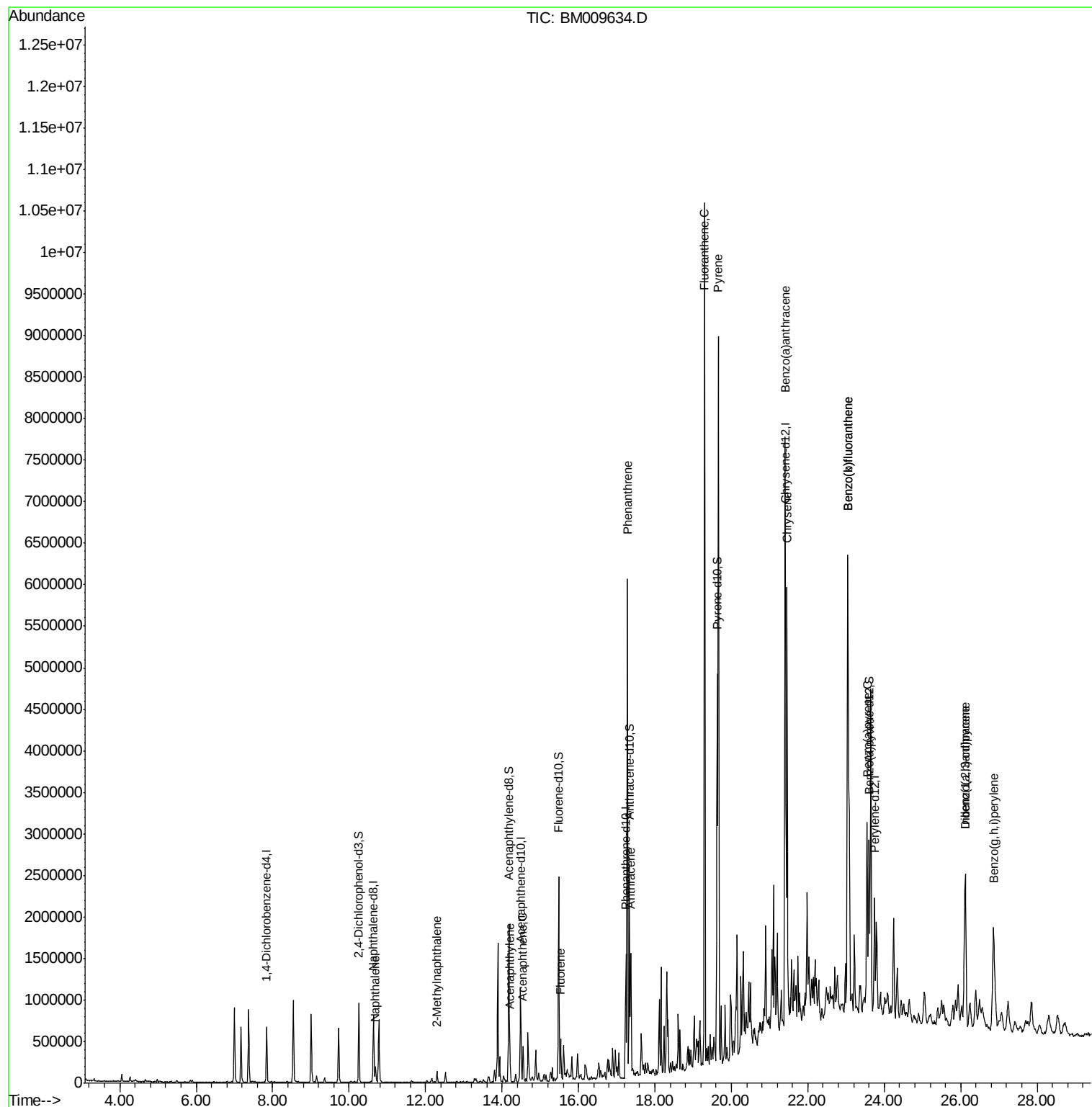
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 156465   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.64 | 136  | 604962   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.49 | 164  | 350171   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.24 | 188  | 815529   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.42 | 240  | 1049959  | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.75 | 264  | 982411   | 20.00  | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.25 | 165  | 308378   | 33.15  | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.18 | 160  | 1199136  | 34.94  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.48 | 176  | 853882   | 34.59  | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.33 | 188  | 1361903  | 34.90  | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.63 | 212  | 1577735  | 36.57  | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 23.60 | 264  | 1558177  | 35.92  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 4) Naphthalene              | 10.69 | 128  | 130978   | 4.22   | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.30 | 142  | 59904    | 2.65   | ng/ul  | 98       |
| 8) Acenaphthylene           | 14.21 | 152  | 160380   | 4.66   | ng/ul  | 97       |
| 9) Acenaphthene             | 14.55 | 153  | 161028   | 6.79   | ng/ul  | 96       |
| 11) Fluorene                | 15.53 | 166  | 194438   | 6.72   | ng/ul  | 98       |
| 14) Phenanthrene            | 17.28 | 178  | 3312314  | 72.24  | ng/ul  | 98       |
| 16) Anthracene              | 17.37 | 178  | 873210   | 18.42  | ng/ul  | 95       |
| 17) Fluoranthene            | 19.30 | 202  | 5693463  | 99.71  | ng/ul  | 96       |
| 20) Pyrene                  | 19.66 | 202  | 5013590  | 87.70  | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.40 | 228  | 3239948  | 54.58  | ng/ul  | 99       |
| 22) Chrysene                | 21.46 | 228  | 2647379  | 48.65  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.05 | 252  | 3585298  | 59.01  | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 23.05 | 252  | 3585298  | 61.93  | ng/ul  | 98       |
| 27) Benzo(a)pyrene          | 23.55 | 252  | 1653557  | 28.63  | ng/ul  | 98       |
| 28) Indeno(1,2,3-cd)pyrene  | 26.12 | 276  | 1658178  | 25.60  | ng/ul# | 95       |
| 29) Dibenzo(a,h)anthracene  | 26.12 | 278  | 480249   | 8.72   | ng/ul  | 98       |
| 30) Benzo(g,h,i)perylene    | 26.86 | 276  | 1468653  | 27.50  | ng/ul# | 91       |

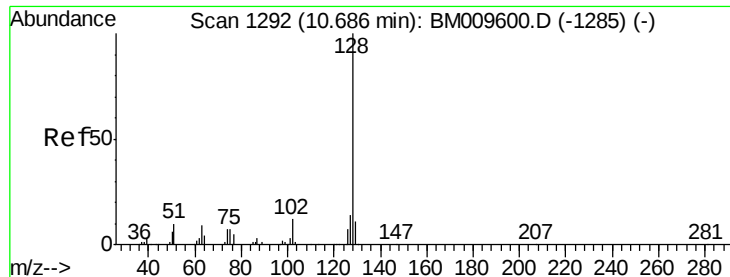
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM040817\  
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QLast Update : Fri Apr 07 03:19:28 2017  
Response via : Initial Calibration





#4

Naphthalene

Concen: 4.22 ng/ul

RT: 10.69 min Scan# 1292

Delta R.T. 0.00 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

Instrument :

BNA\_M

ClientSampleId :

CB389

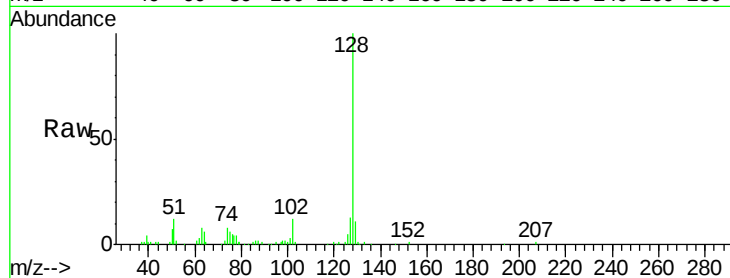
Tgt Ion:128 Resp: 130978

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

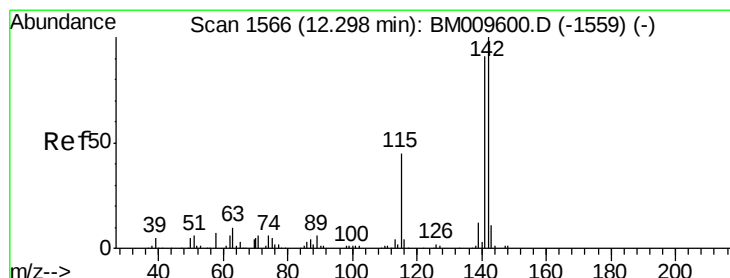
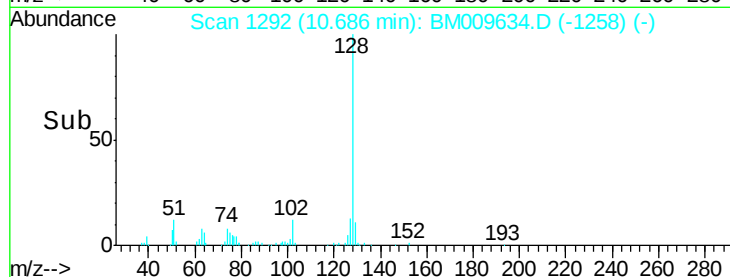
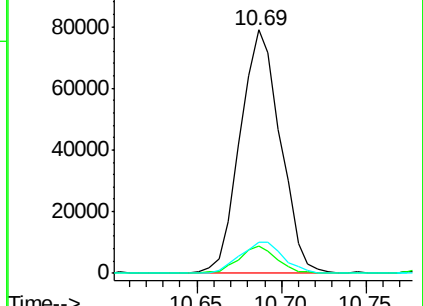
127 13.0 10.6 15.8



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: 2.65 ng/ul

RT: 12.30 min Scan# 1566

Delta R.T. 0.00 min

Lab File: BM009634.D

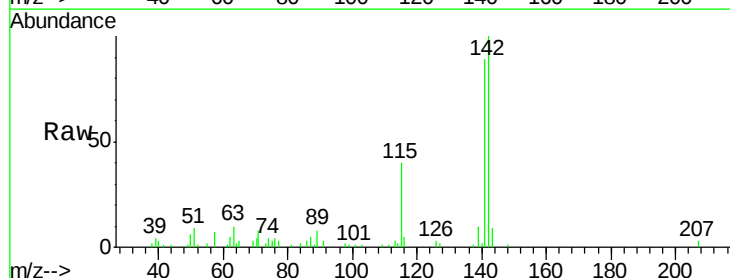
Acq: 07 Apr 2017 18:14

Tgt Ion:142 Resp: 59904

Ion Ratio Lower Upper

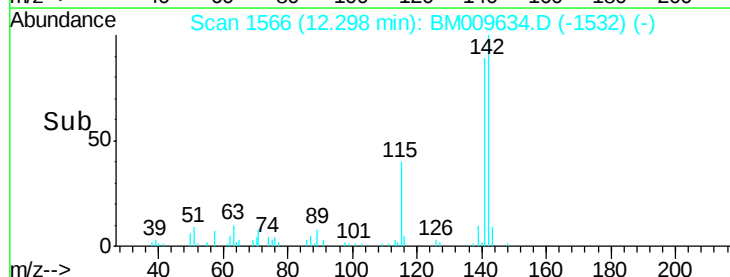
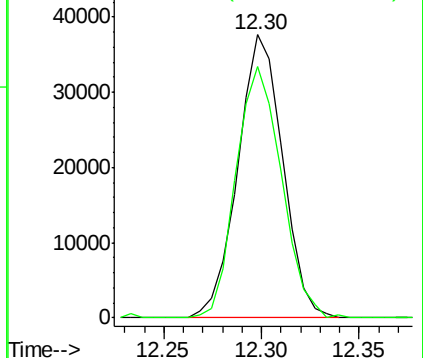
142 100

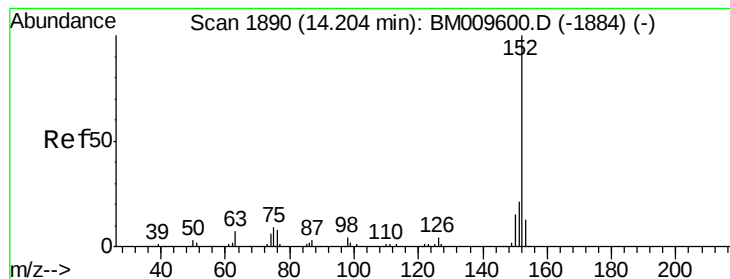
141 89.0 69.8 104.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#8

Acenaphthylene

Concen: 4.66 ng/ul

RT: 14.21 min Scan# 1891

Delta R.T. 0.01 min

Lab File: BM009634.D

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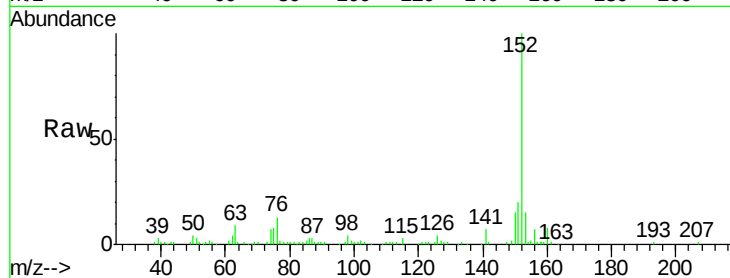
Tgt Ion:152 Resp: 160380

Ion Ratio Lower Upper

152 100

151 20.4 17.5 26.3

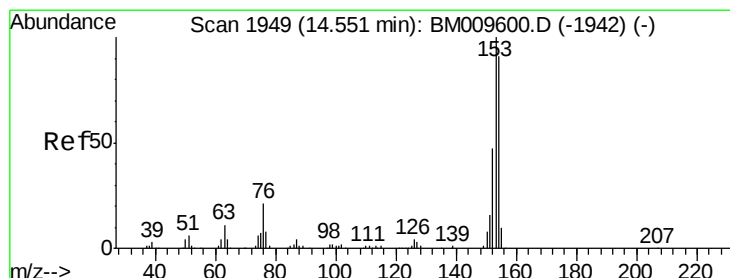
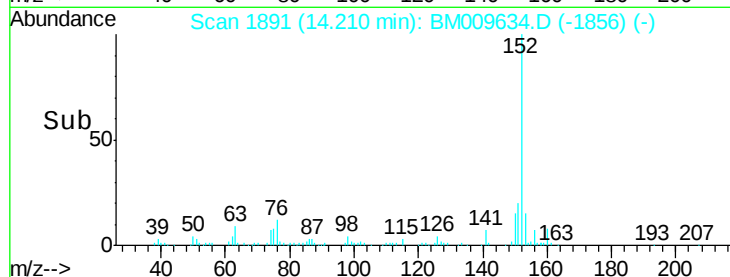
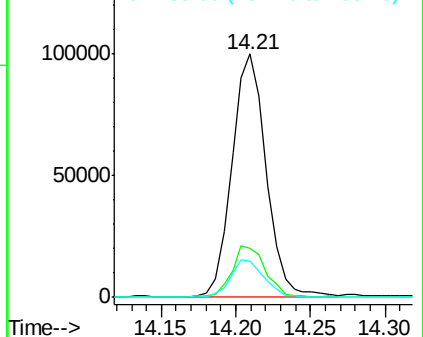
153 14.9 10.6 16.0



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: 6.79 ng/ul

RT: 14.55 min Scan# 1949

Delta R.T. 0.00 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

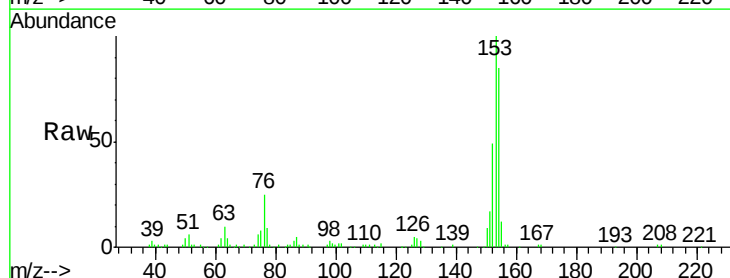
Tgt Ion:153 Resp: 161028

Ion Ratio Lower Upper

153 100

152 49.4 37.9 56.9

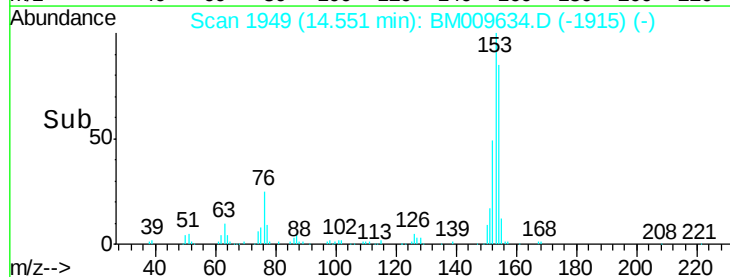
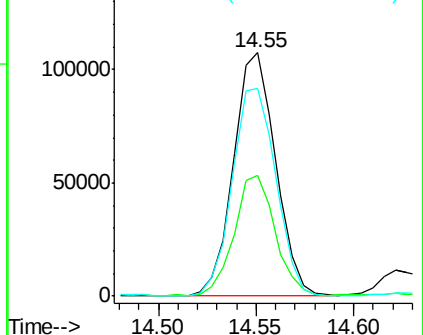
154 85.5 71.6 107.4

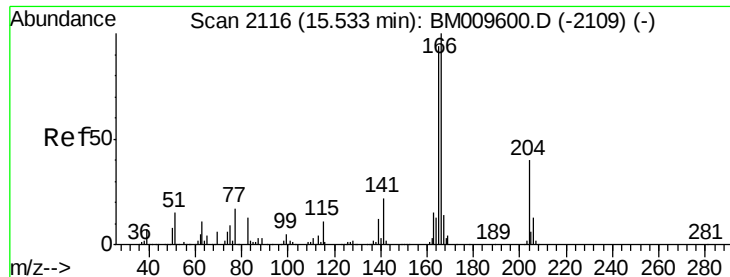


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 6.72 ng/ul

RT: 15.53 min Scan# 2116

Delta R.T. 0.00 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

Instrument :

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ClientSampleId :

CB389

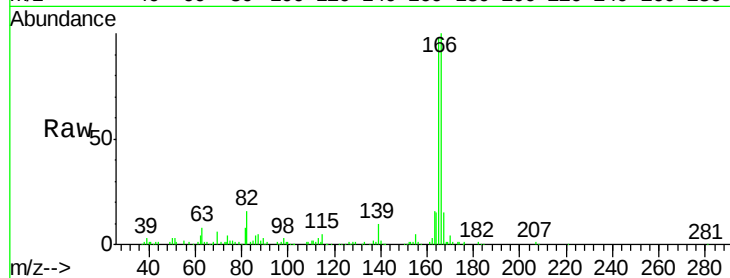
Tgt Ion:166 Resp: 194438

Ion Ratio Lower Upper

166 100

165 98.4 80.0 120.0

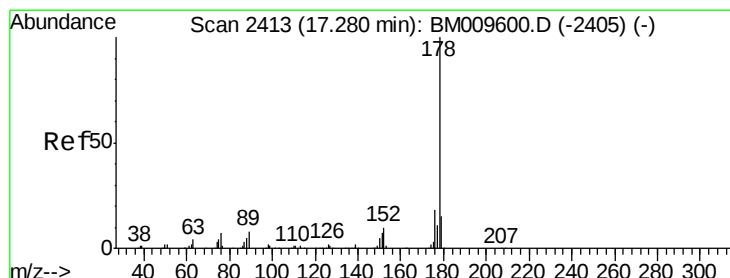
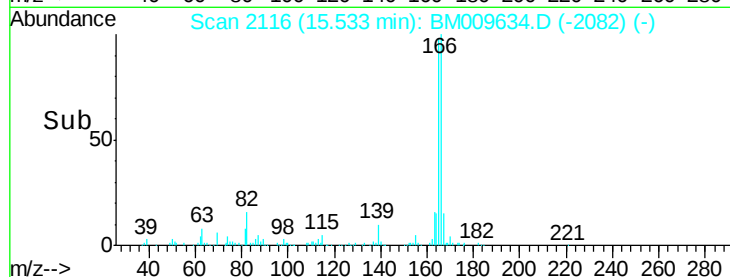
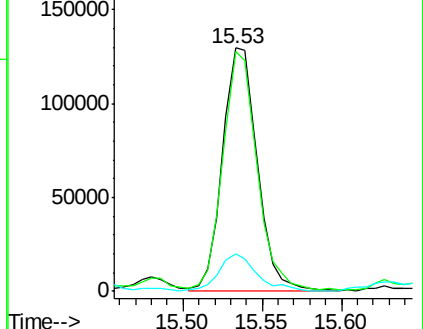
167 15.2 11.6 17.4



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



#14

Phenanthrene

Concen: 72.24 ng/ul

RT: 17.28 min Scan# 2413

Delta R.T. 0.00 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

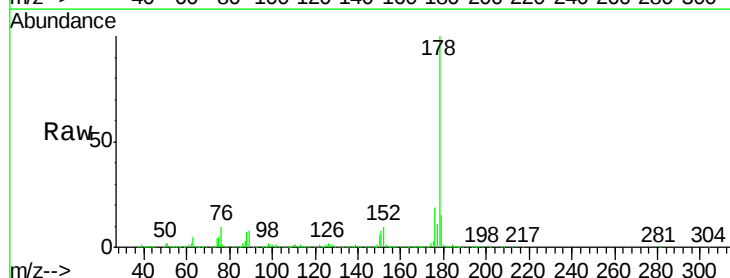
Tgt Ion:178 Resp: 3312314

Ion Ratio Lower Upper

178 100

179 15.2 12.2 18.4

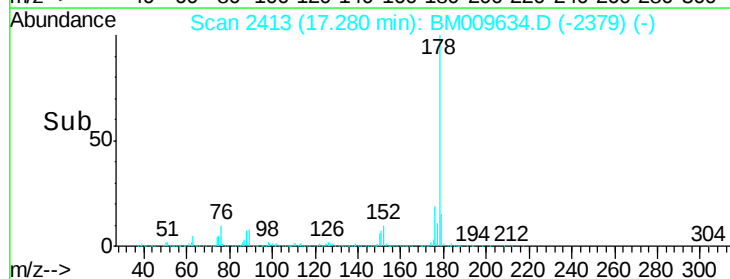
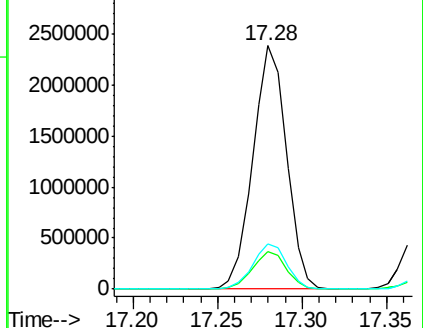
176 18.6 16.4 24.6

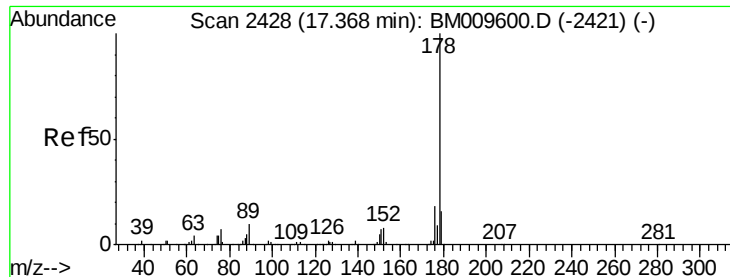


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

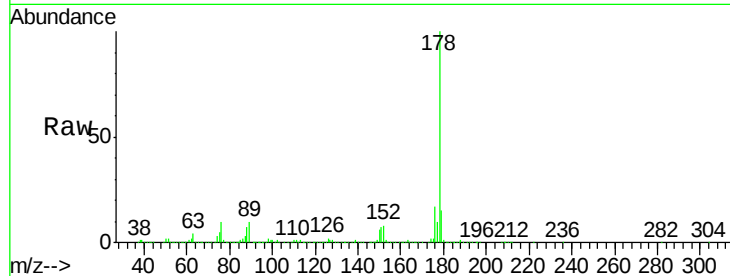




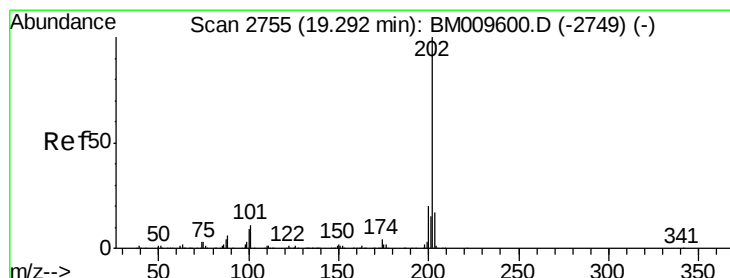
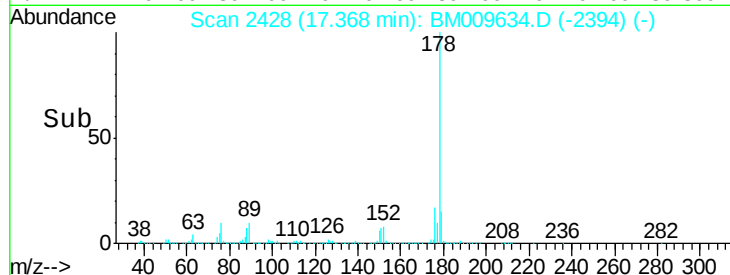
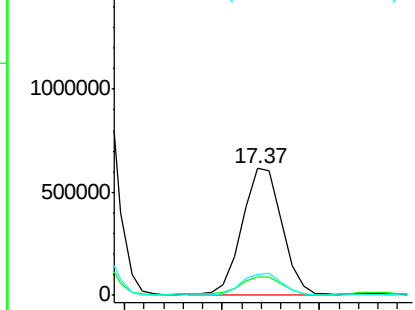
#16  
 Anthracene  
 Concen: 18.42 ng/ul  
 RT: 17.37 min Scan# 2428  
 Delta R.T. 0.00 min  
 Lab File: BM009634.D  
 Acq: 07 Apr 2017 18:14

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Tgt Ion:178 Resp: 873210  
 Ion Ratio Lower Upper  
 178 100  
 179 14.7 12.7 19.1  
 176 16.9 15.8 23.8

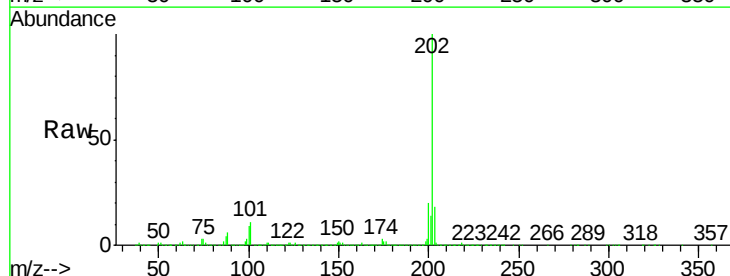


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

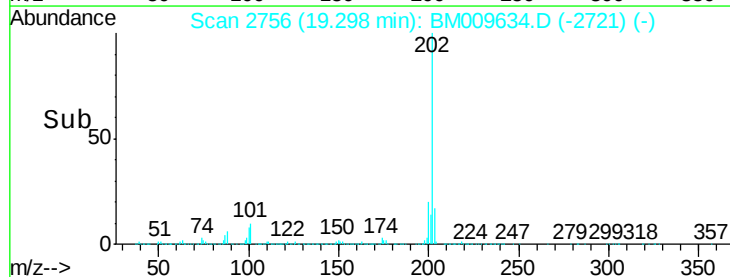
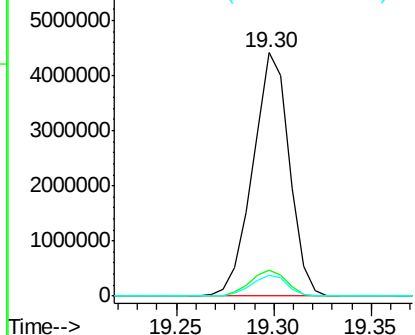


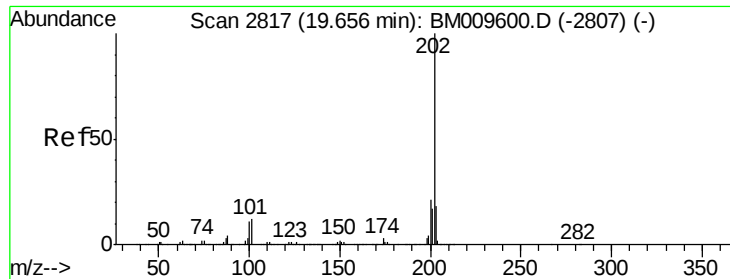
#17  
 Fluoranthene  
 Concen: 99.71 ng/ul  
 RT: 19.30 min Scan# 2756  
 Delta R.T. 0.01 min  
 Lab File: BM009634.D  
 Acq: 07 Apr 2017 18:14

Tgt Ion:202 Resp: 5693463  
 Ion Ratio Lower Upper  
 202 100  
 101 10.6 9.8 14.8  
 100 8.6 7.5 11.3



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

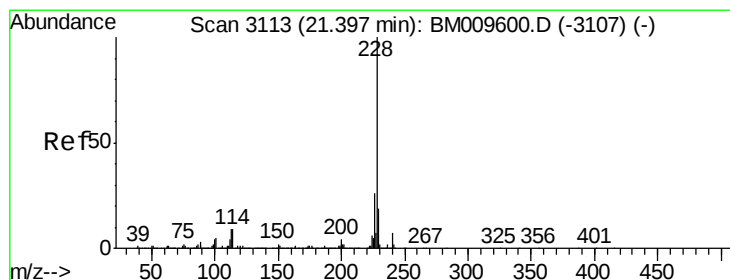
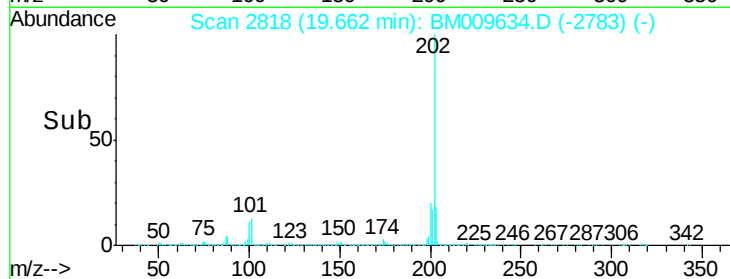
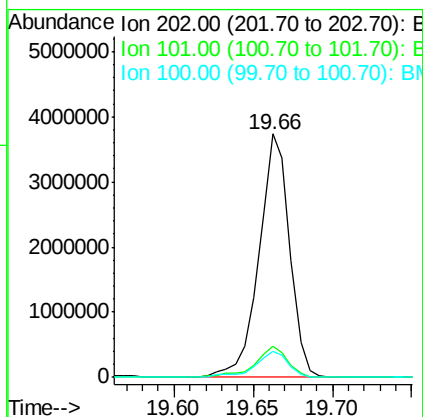
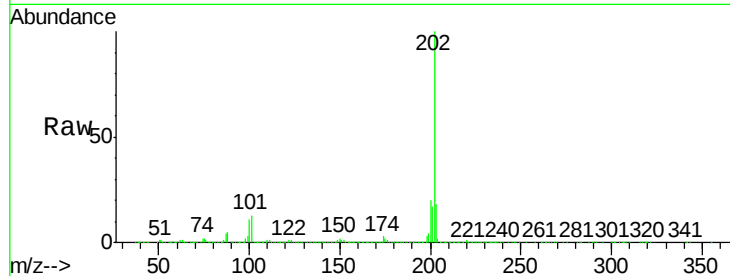




#20  
 Pyrene  
 Concen: 87.70 ng/ul  
 RT: 19.66 min Scan# 2818  
 Delta R.T. 0.01 min  
 Lab File: BM009634.D  
 Acq: 07 Apr 2017 18:14

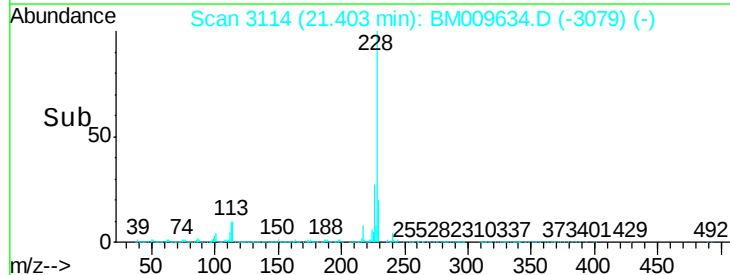
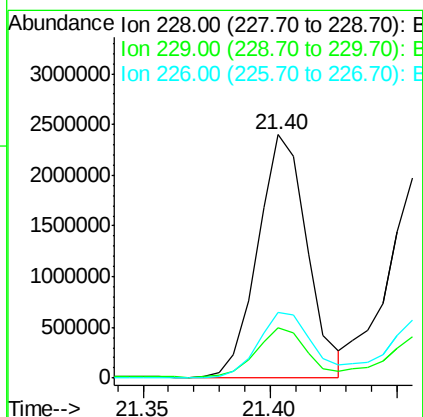
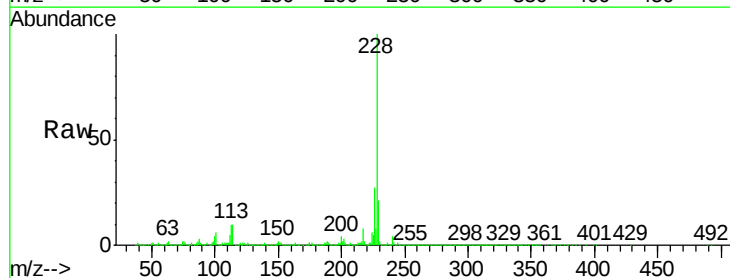
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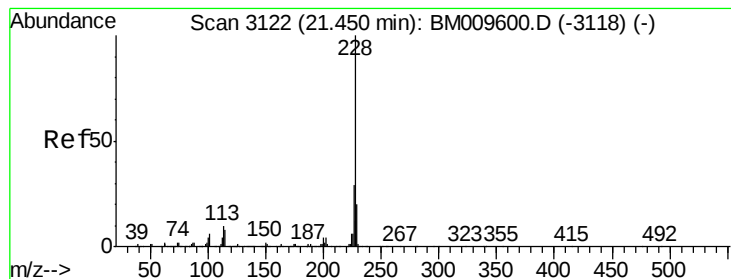
Tgt Ion:202 Resp: 5013590  
 Ion Ratio Lower Upper  
 202 100  
 101 12.7 11.2 16.8  
 100 10.6 9.8 14.6



#21  
 Benzo(a)anthracene  
 Concen: 54.58 ng/ul  
 RT: 21.40 min Scan# 3114  
 Delta R.T. 0.01 min  
 Lab File: BM009634.D  
 Acq: 07 Apr 2017 18:14

Tgt Ion:228 Resp: 3239948  
 Ion Ratio Lower Upper  
 228 100  
 229 20.5 15.9 23.9  
 226 27.1 22.1 33.1





#22

Chrysene

Concen: 48.65 ng/ul

RT: 21.46 min Scan# 3123

Delta R.T. 0.01 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

Instrument :

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ClientSampleId :

CB389

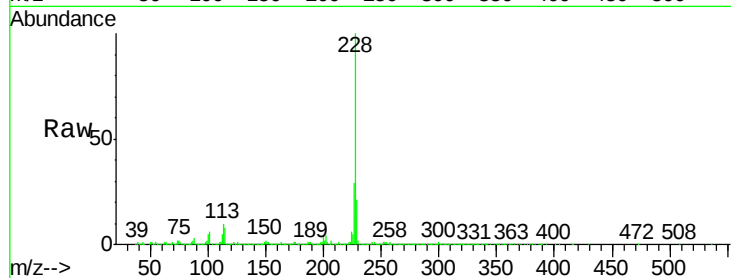
Tgt Ion:228 Resp: 2647379

Ion Ratio Lower Upper

228 100

226 28.8 25.0 37.6

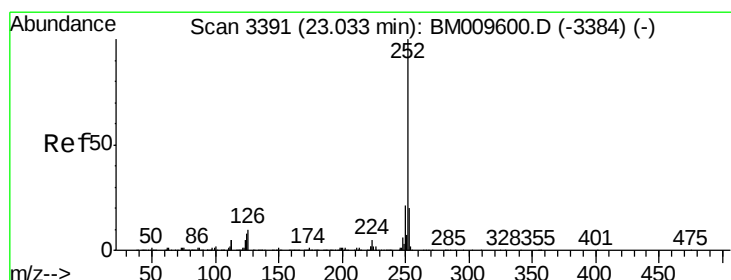
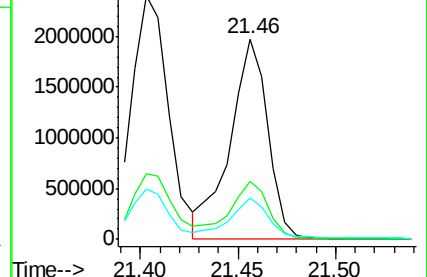
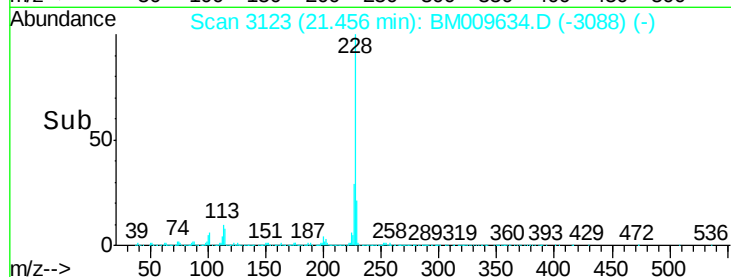
229 20.9 16.6 25.0



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



#24

Benzo(b)fluoranthene

Concen: 59.01 ng/ul

RT: 23.05 min Scan# 3394

Delta R.T. 0.02 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

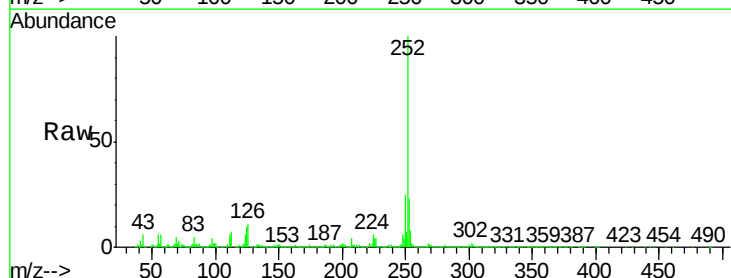
Tgt Ion:252 Resp: 3585298

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.6

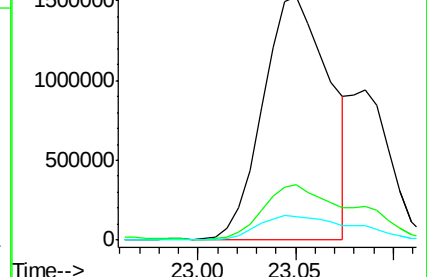
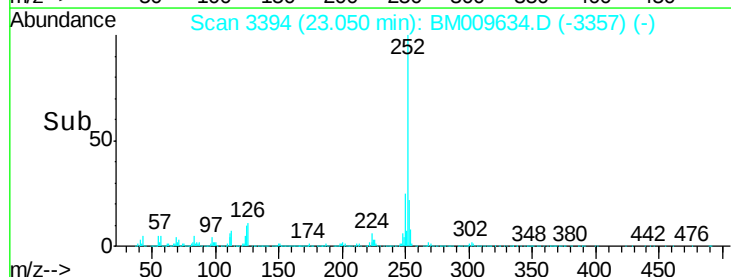
125 9.9 9.4 14.0

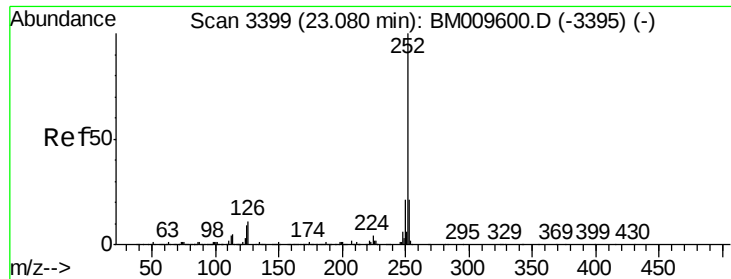


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(k)fluoranthene

Concen: 61.93 ng/ul

RT: 23.05 min Scan# 3394

Delta R.T. -0.03 min

Lab File: BM009634.D

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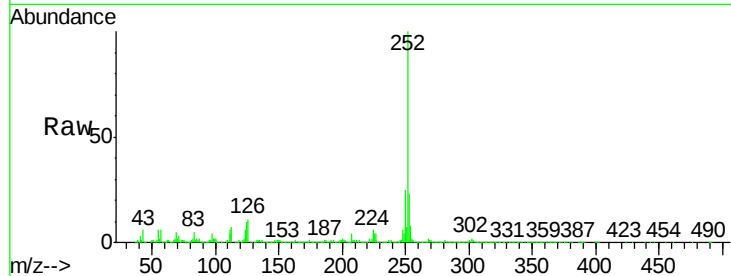
Tgt Ion:252 Resp: 3585298

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

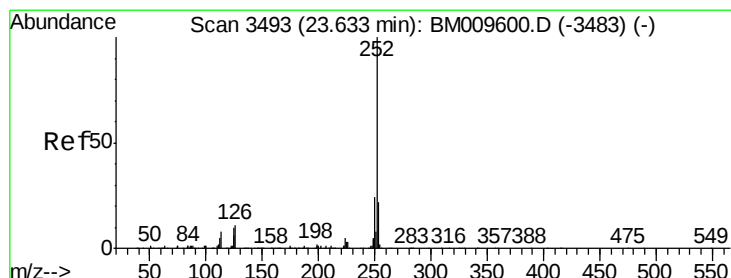
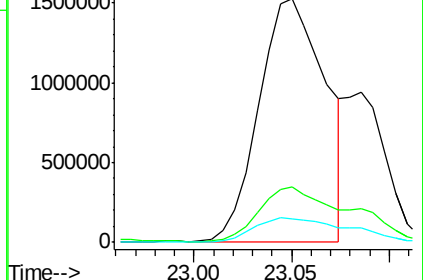
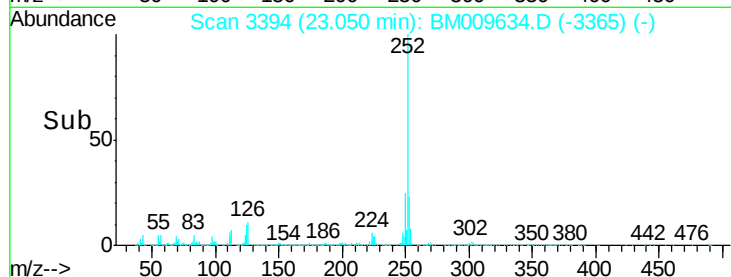
125 9.9 8.8 13.2



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



#27

Benzo(a)pyrene

Concen: 28.63 ng/ul

RT: 23.55 min Scan# 3479

Delta R.T. -0.08 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

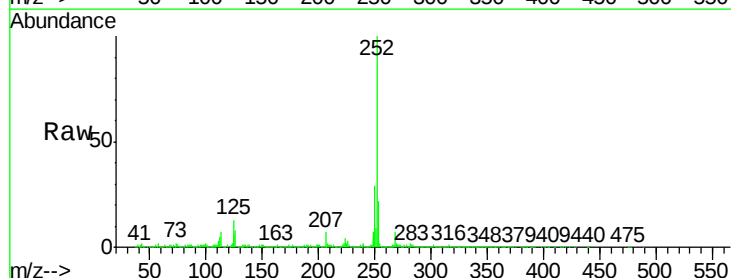
Tgt Ion:252 Resp: 1653557

Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

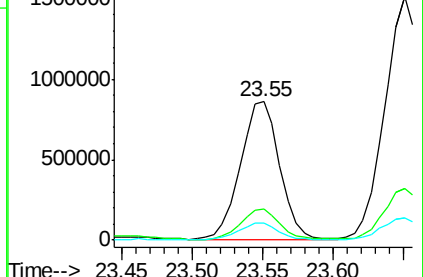
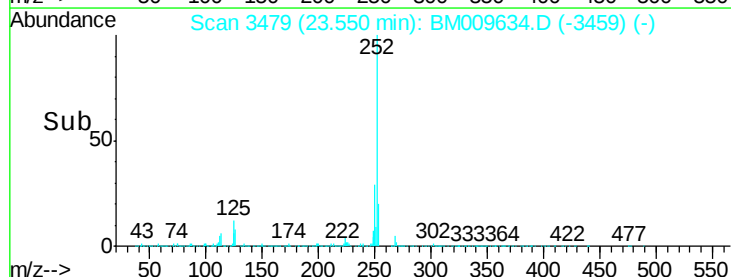
125 12.6 9.4 14.2

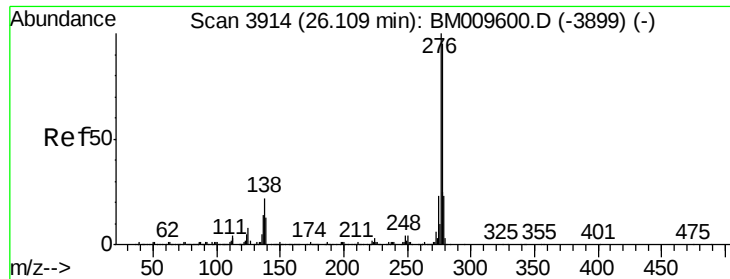


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Indeno(1,2,3-cd)pyrene

Concen: 25.60 ng/ul

RT: 26.12 min Scan# 3916

Delta R.T. 0.01 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

Instrument :

BNA\_M

ClientSampleId :

CB389

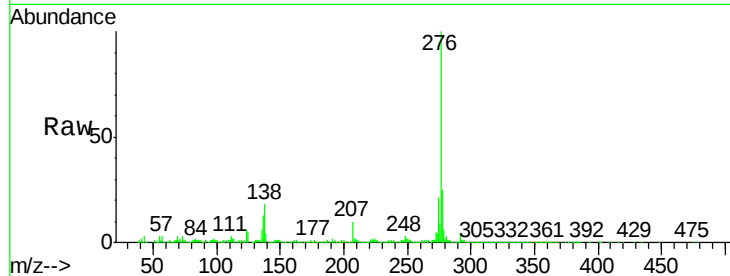
Tgt Ion:276 Resp: 1658178

Ion Ratio Lower Upper

276 100

138 17.5 17.8 26.6#

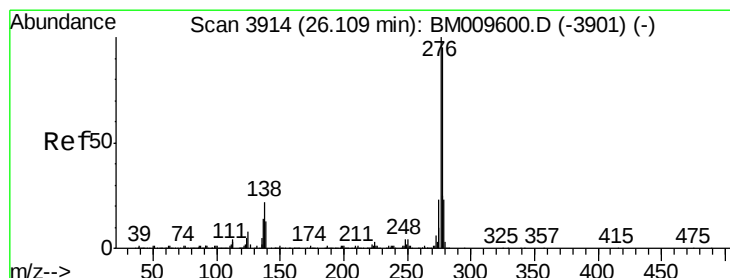
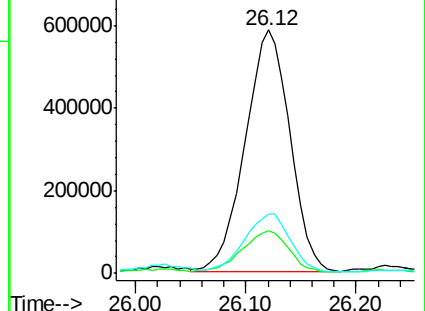
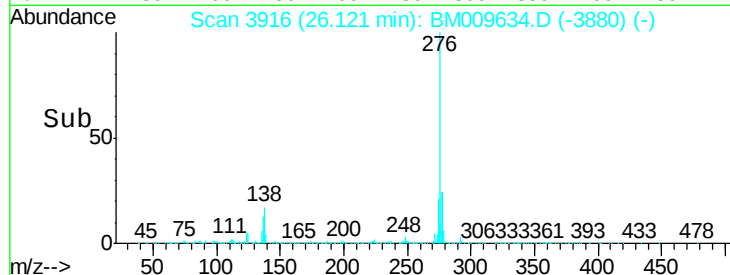
277 24.3 19.4 29.0



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



#29

Dibenzo(a,h)anthracene

Concen: 8.72 ng/ul

RT: 26.12 min Scan# 3916

Delta R.T. 0.01 min

Lab File: BM009634.D

Acq: 07 Apr 2017 18:14

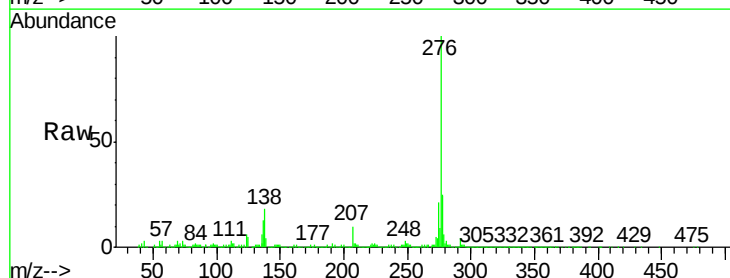
Tgt Ion:278 Resp: 480249

Ion Ratio Lower Upper

278 100

139 17.4 14.0 21.0

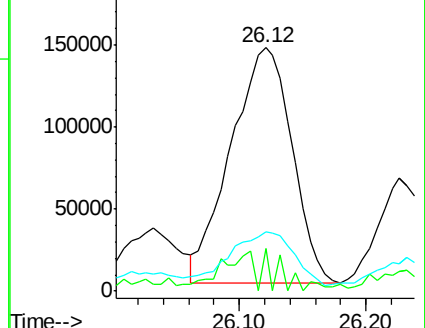
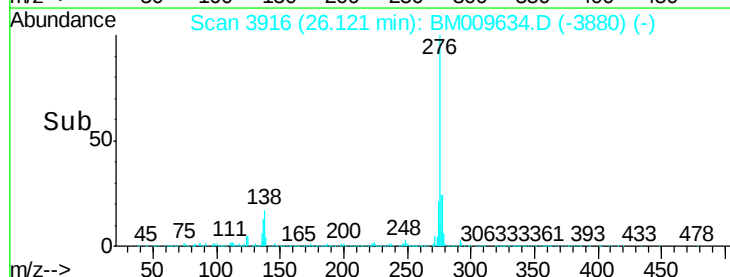
279 24.4 20.6 31.0

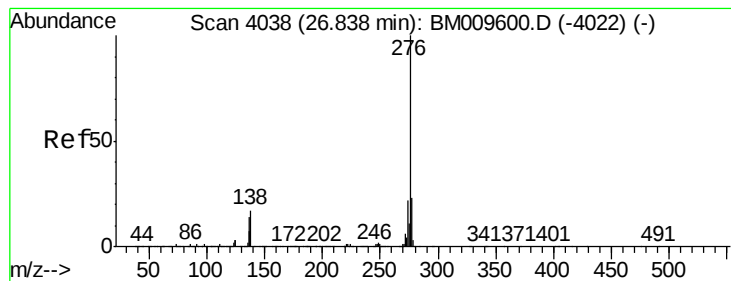


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30  
 Benzo(g,h,i)perylene  
 Concen: 27.50 ng/ul  
 RT: 26.86 min Scan# 4042  
 Delta R.T. 0.02 min  
 Lab File: BM009634.D  
 Acq: 07 Apr 2017 18:14

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB389

Tgt Ion: 276 Resp: 1468653  
 Ion Ratio Lower Upper  
 276 100  
 138 15.9 19.0 28.4#  
 277 23.8 19.7 29.5

