

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062317\  
 Data File : BM010742.D  
 Acq On : 24 Jun 2017 22:28  
 Operator : SJ/JU  
 Sample : I3653-06MEDL 100X  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5E19MEDL

Quant Time: Jun 26 04:57:42 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 26 04:54:47 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.46  | 152  | 64547    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.22 | 136  | 289671   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.11 | 164  | 204138   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.86 | 188  | 527907   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.08 | 240  | 599089   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.21 | 264  | 479289   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0      | 0.00  | ng/uL |       |
| 5) Phenol-d5                   | 6.65  | 99  | 672    | 0.11  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0      | 0.00  | ng/ul |       |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 244    | 0.06  | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 404    | 0.08  | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0      | 0.00  | ng/ul |       |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |       |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 791    | 0.16  | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.36 | 131 | 1152   | 0.22  | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.53 | 166 | 3900   | 0.22  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.79 | 160 | 4547   | 0.22  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |       |
| 57) Fluorene-d10               | 15.11 | 176 | 4754   | 0.31  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0      | 0.00  | ng/ul |       |
| 70) Anthracene-d10             | 16.96 | 188 | 5930   | 0.23  | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.27 | 212 | 6727   | 0.24  | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.21 | 264 | 478446 | 20.65 | ng/ul | 0.13  |

## Target Compounds

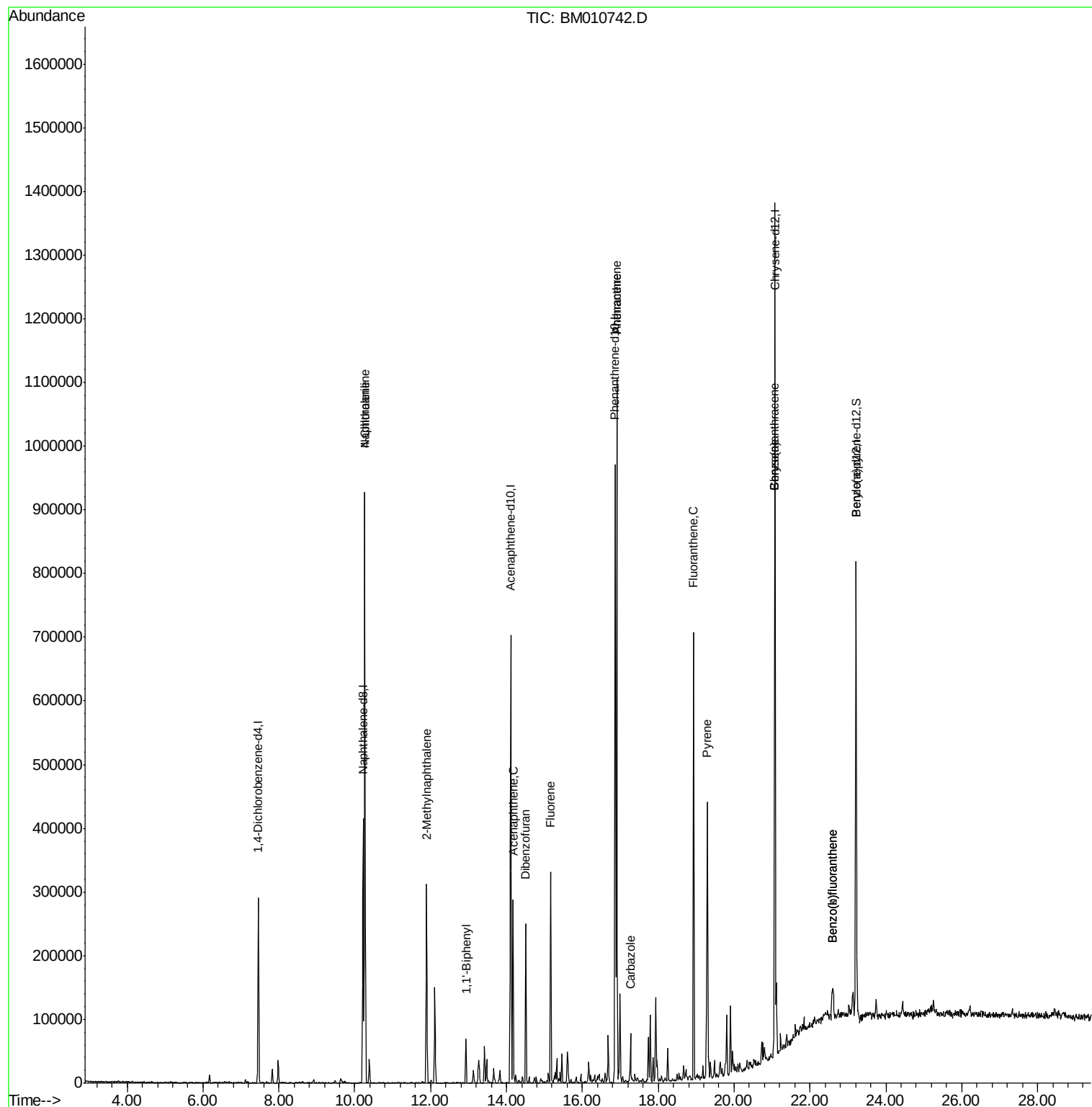
|                          |       |     |        |       |        | Qvalue |
|--------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene          | 10.27 | 128 | 633873 | 43.97 | ng/ul  | 99     |
| 30) 4-Chloroaniline      | 10.27 | 127 | 85017  | 16.01 | ng/ul# | 26     |
| 34) 2-Methylnaphthalene  | 11.89 | 142 | 123047 | 10.62 | ng/ul  | 100    |
| 40) 1,1'-Biphenyl        | 12.93 | 154 | 33906  | 2.12  | ng/ul# | 94     |
| 49) Acenaphthene         | 14.17 | 153 | 107358 | 8.02  | ng/ul  | 96     |
| 53) Dibenzofuran         | 14.51 | 168 | 124815 | 6.15  | ng/ul# | 83     |
| 58) Fluorene             | 15.16 | 166 | 131863 | 7.77  | ng/ul  | 99     |
| 69) Phenanthrene         | 16.90 | 178 | 607240 | 21.64 | ng/ul  | 99     |
| 71) Anthracene           | 16.90 | 178 | 607240 | 21.00 | ng/ul  | 99     |
| 72) Carbazole            | 17.27 | 167 | 41714  | 1.65  | ng/ul  | 95     |
| 74) Fluoranthene         | 18.93 | 202 | 402690 | 11.13 | ng/ul# | 98     |
| 77) Pyrene               | 19.30 | 202 | 267584 | 7.73  | ng/ul  | 98     |
| 80) Benzo(a)anthracene   | 21.06 | 228 | 83143  | 2.38  | ng/ul  | 93     |
| 82) Chrysene             | 21.06 | 228 | 83143  | 2.67  | ng/ul  | 96     |
| 85) Benzo(b)fluoranthene | 22.59 | 252 | 39426  | 1.27  | ng/ul  | 95     |
| 86) Benzo(k)fluoranthene | 22.59 | 252 | 39426  | 1.34  | ng/ul  | 93     |

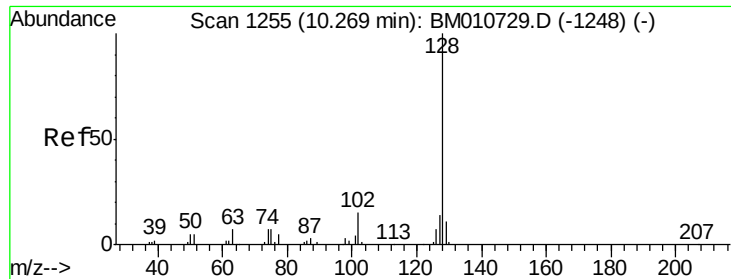
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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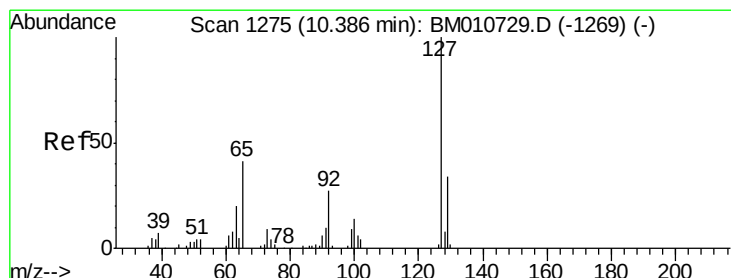
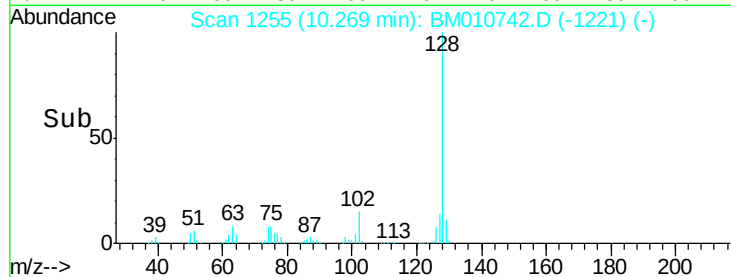
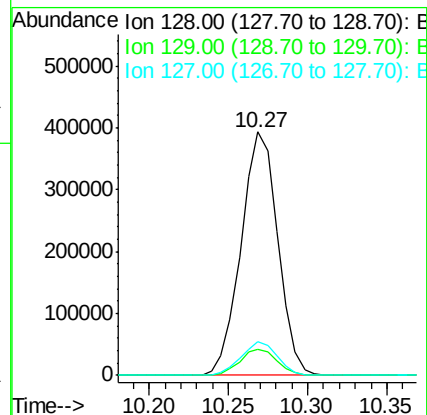
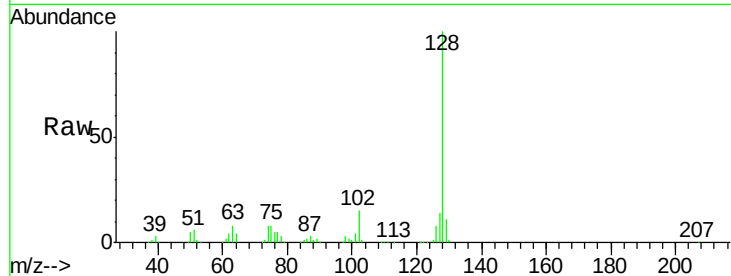




#28  
Naphthalene  
Concen: 43.97 ng/ul  
RT: 10.27 min Scan# 1255  
Delta R.T. -0.00 min  
Lab File: BM010742.D  
Acq: 24 Jun 2017 22:28

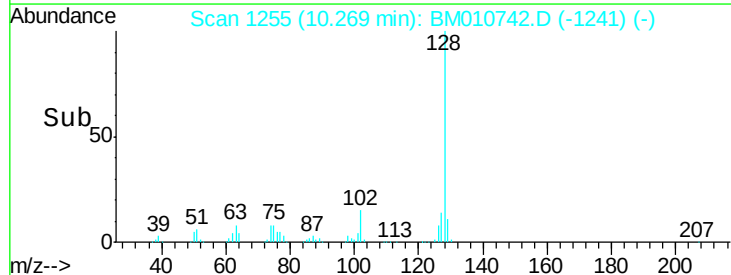
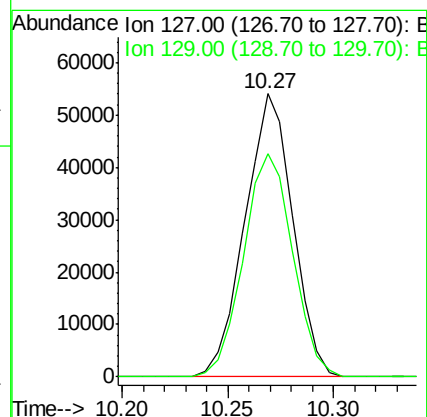
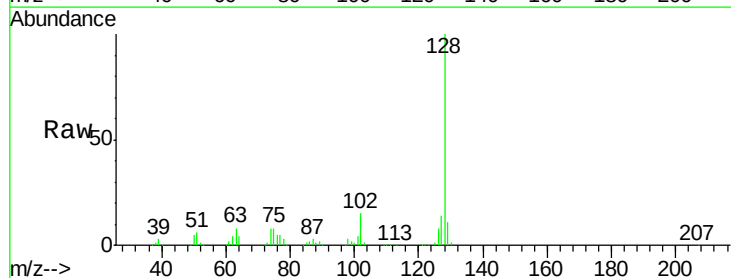
Instrument :  
BNA\_M  
ClientSampleId :  
F5E19MEDL

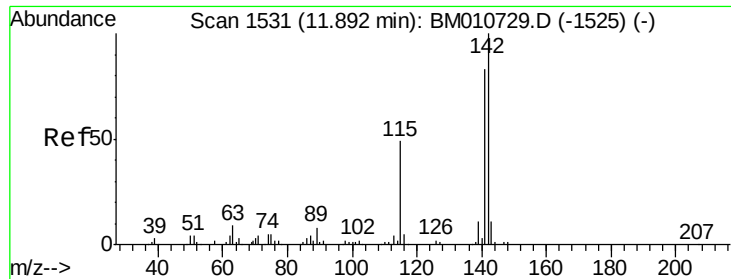
Tgt Ion:128 Resp: 633873  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.8 13.2  
127 13.7 10.6 16.0



#30  
4-Chloroaniline  
Concen: 16.01 ng/ul  
RT: 10.27 min Scan# 1255  
Delta R.T. -0.12 min  
Lab File: BM010742.D  
Acq: 24 Jun 2017 22:28

Tgt Ion:127 Resp: 85017  
Ion Ratio Lower Upper  
127 100  
129 79.0 28.4 42.6#

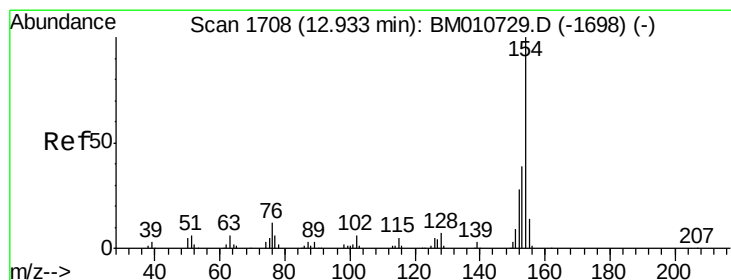
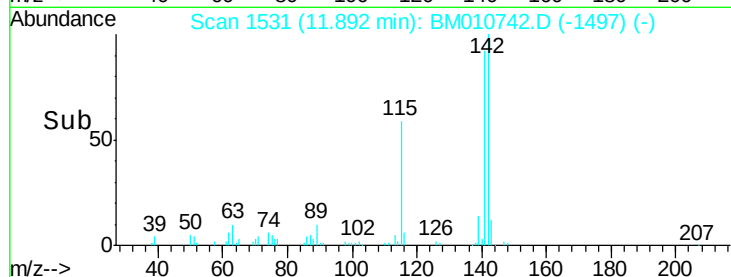
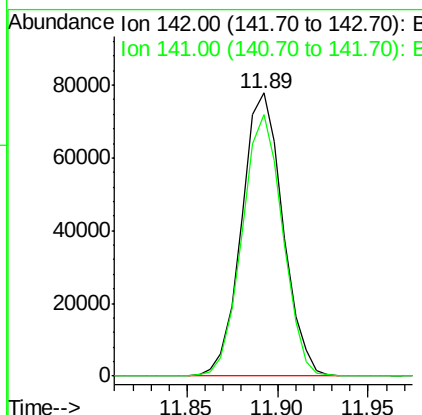
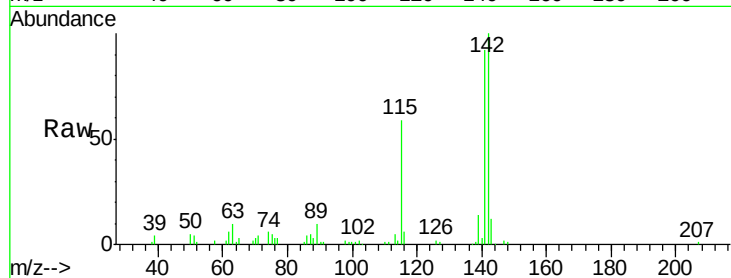




#34  
 2-Methylnaphthalene  
 Concen: 10.62 ng/ul  
 RT: 11.89 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: BM010742.D  
 Acq: 24 Jun 2017 22:28

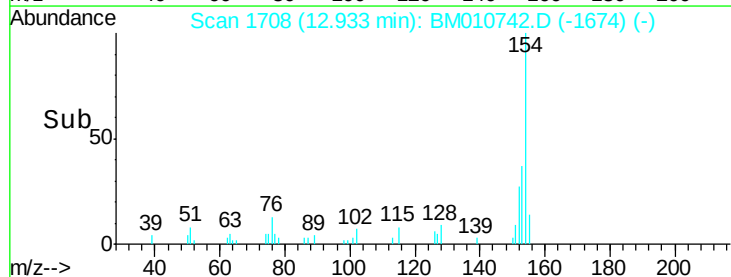
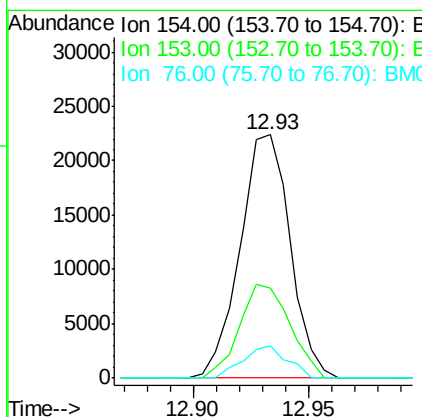
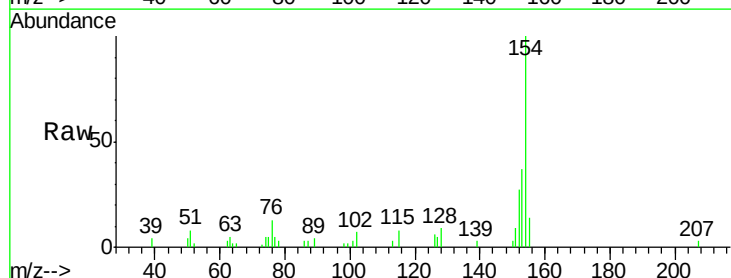
Instrument :  
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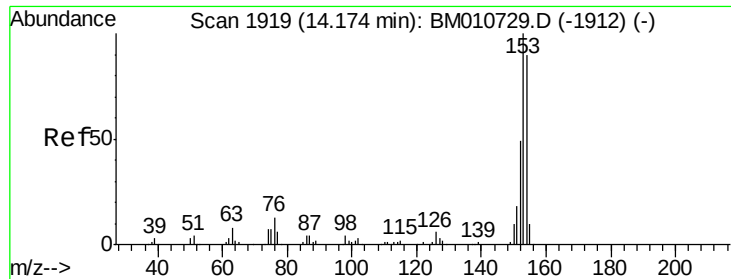
Tgt Ion:142 Resp: 123047  
 Ion Ratio Lower Upper  
 142 100  
 141 92.5 74.1 111.1



#40  
 1,1'-Biphenyl  
 Concen: 2.12 ng/ul  
 RT: 12.93 min Scan# 1708  
 Delta R.T. -0.00 min  
 Lab File: BM010742.D  
 Acq: 24 Jun 2017 22:28

Tgt Ion:154 Resp: 33906  
 Ion Ratio Lower Upper  
 154 100  
 153 37.1 32.6 48.8  
 76 13.1 8.5 12.7#





#49

Acenaphthene

Concen: 8.02 ng/ul

RT: 14.17 min Scan# 1919

Delta R.T. -0.00 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

Instrument :

BNA\_M

ClientSampleId :

F5E19MEDL

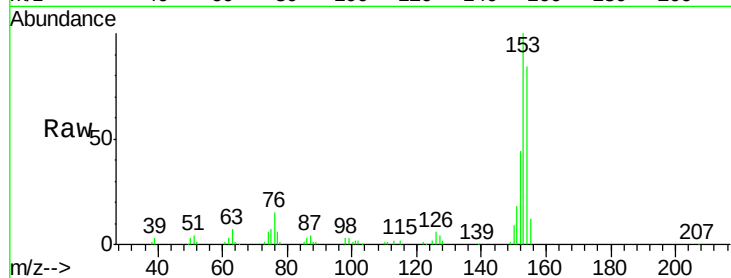
Tgt Ion:153 Resp: 107358

Ion Ratio Lower Upper

153 100

152 43.5 37.6 56.4

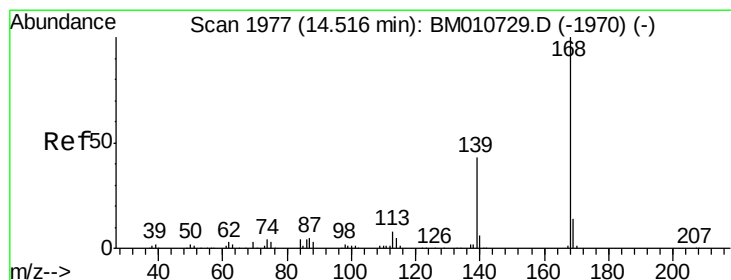
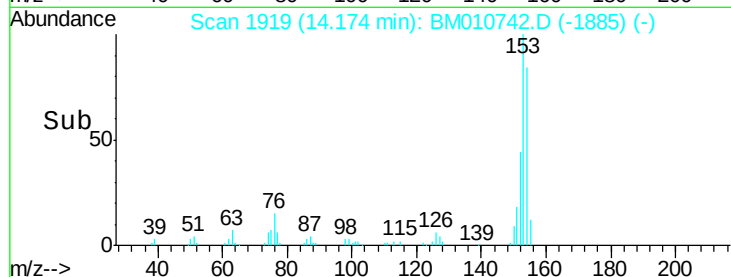
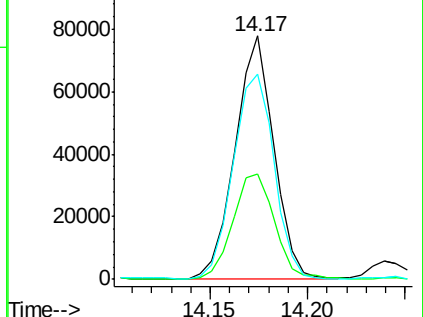
154 84.4 70.4 105.6



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



#53

Dibenzofuran

Concen: 6.15 ng/ul

RT: 14.51 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BM010742.D

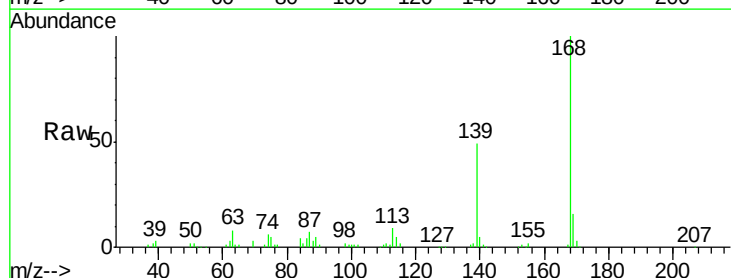
Acq: 24 Jun 2017 22:28

Tgt Ion:168 Resp: 124815

Ion Ratio Lower Upper

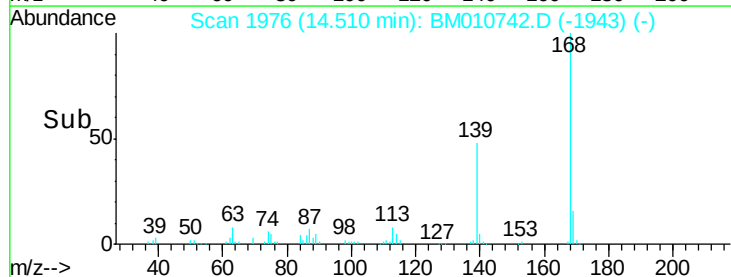
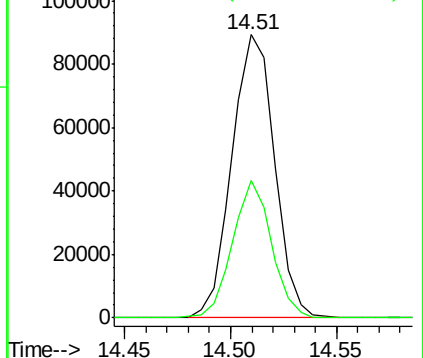
168 100

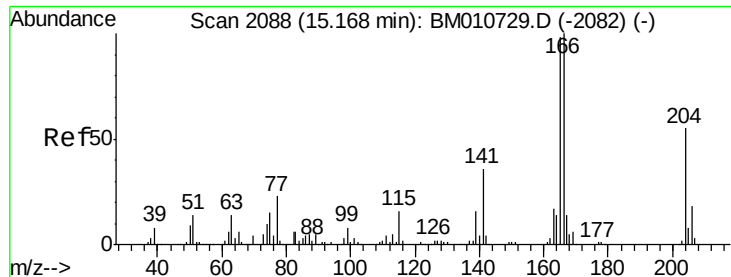
139 48.5 30.8 46.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 7.77 ng/ul

RT: 15.16 min Scan# 2087

Delta R.T. -0.01 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

Instrument :

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ClientSampleId :

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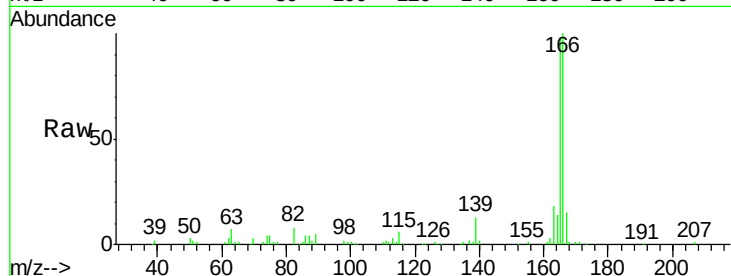
Tgt Ion:166 Resp: 131863

Ion Ratio Lower Upper

166 100

165 98.1 77.9 116.9

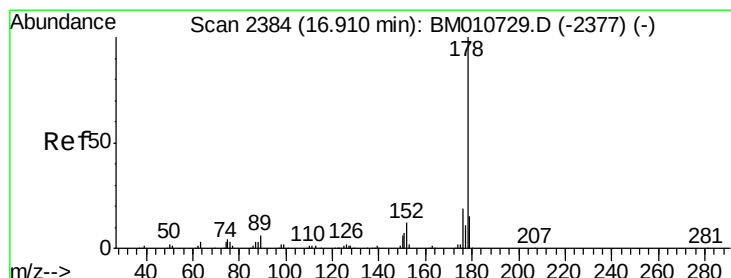
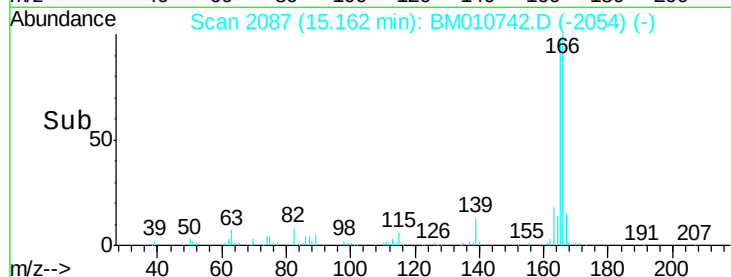
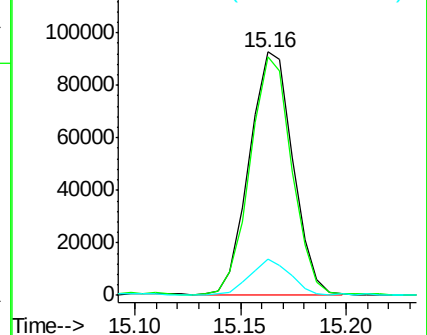
167 15.1 10.6 16.0



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



#69

Phenanthrene

Concen: 21.64 ng/ul

RT: 16.90 min Scan# 2383

Delta R.T. -0.01 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

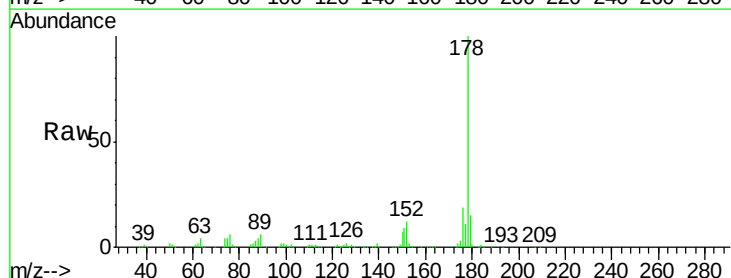
Tgt Ion:178 Resp: 607240

Ion Ratio Lower Upper

178 100

179 15.1 12.6 19.0

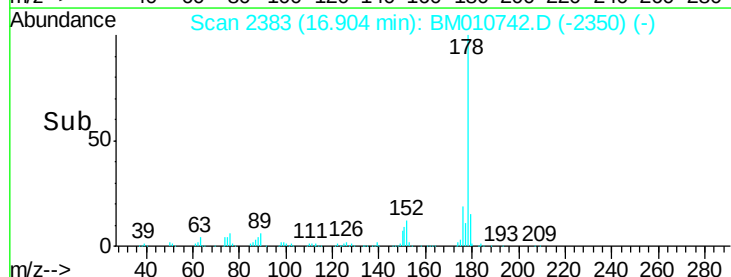
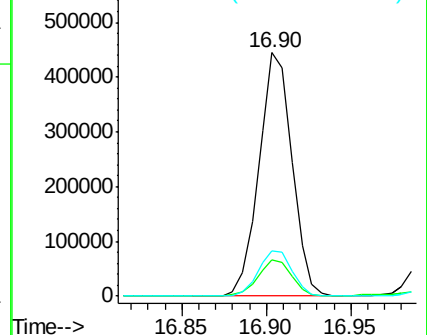
176 18.6 14.9 22.3

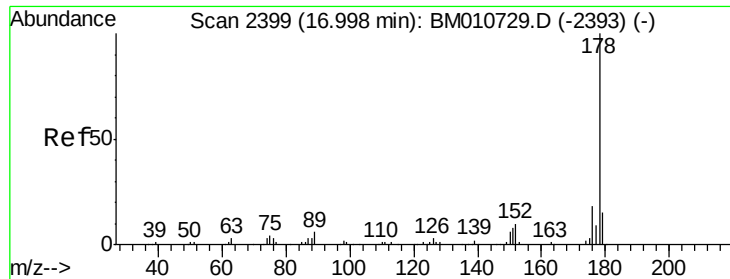


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 21.00 ng/ul

RT: 16.90 min Scan# 2383

Delta R.T. -0.09 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

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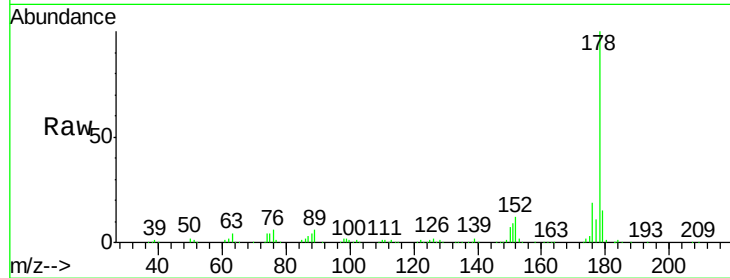
Tgt Ion:178 Resp: 607240

Ion Ratio Lower Upper

178 100

179 15.1 11.7 17.5

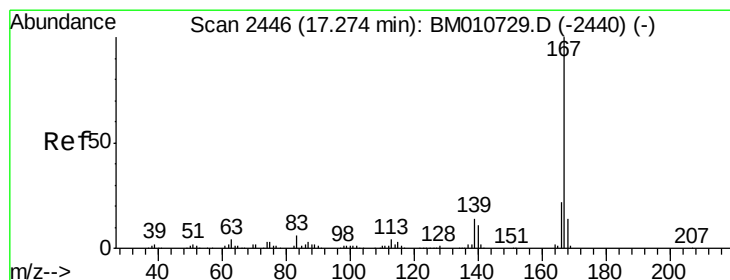
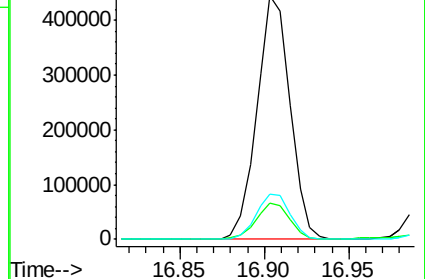
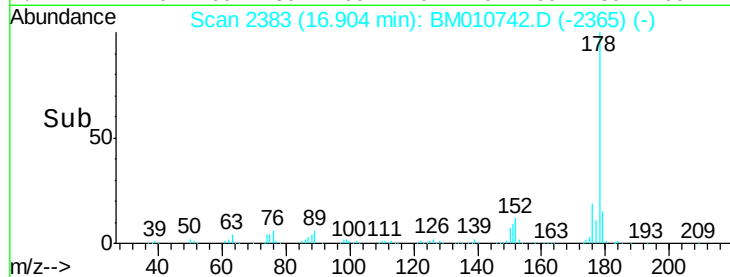
176 18.6 14.6 21.8



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



#72

Carbazole

Concen: 1.65 ng/ul

RT: 17.27 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

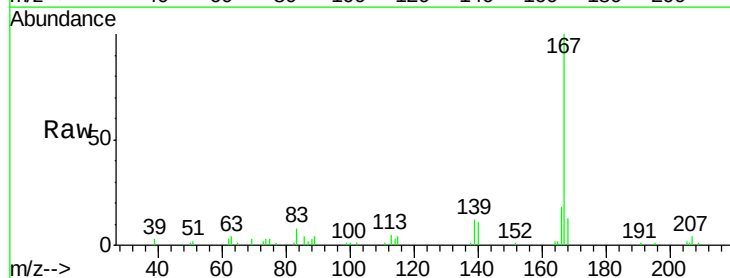
Tgt Ion:167 Resp: 41714

Ion Ratio Lower Upper

167 100

166 18.1 17.1 25.7

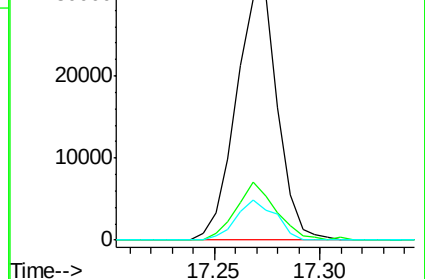
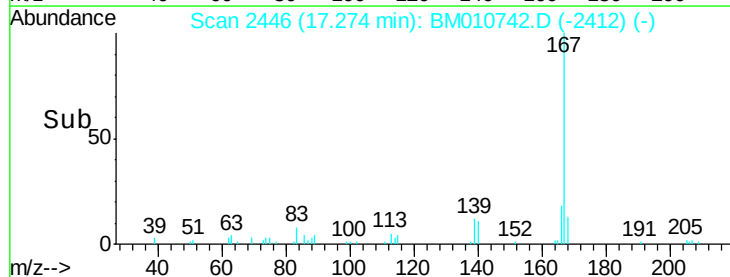
139 12.4 10.0 15.0

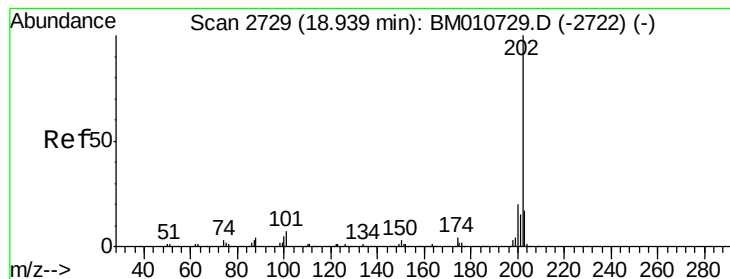


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 11.13 ng/ul

RT: 18.93 min Scan# 2728

Delta R.T. -0.01 min

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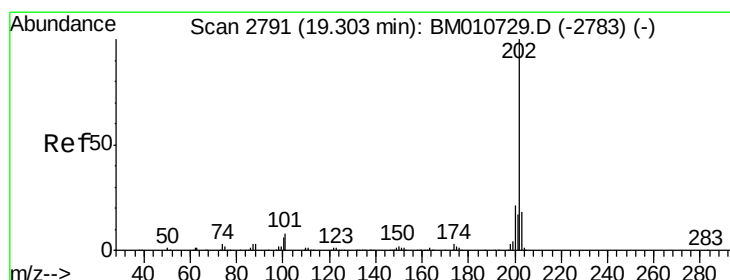
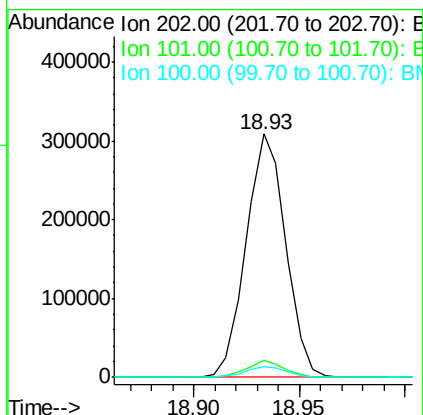
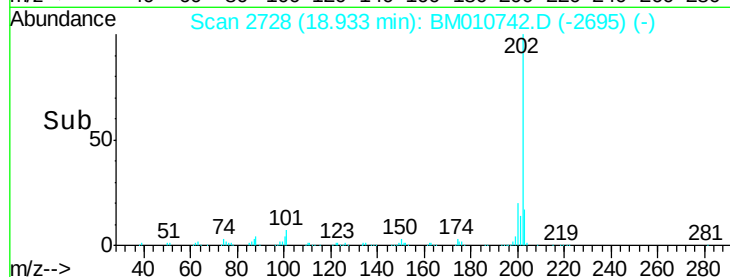
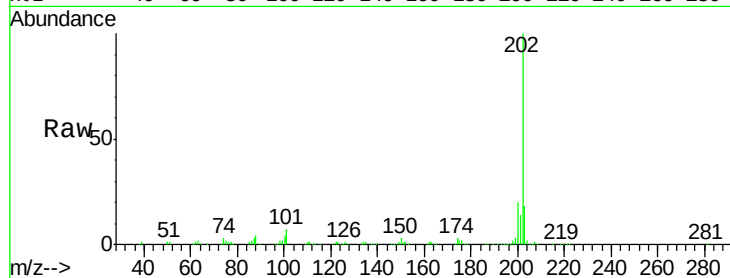
Tgt Ion:202 Resp: 402690

Ion Ratio Lower Upper

202 100

101 7.0 4.6 7.0#

100 4.5 3.4 5.2



#77

Pyrene

Concen: 7.73 ng/ul

RT: 19.30 min Scan# 2790

Delta R.T. -0.01 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

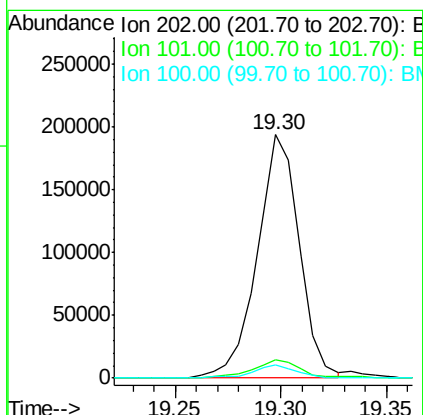
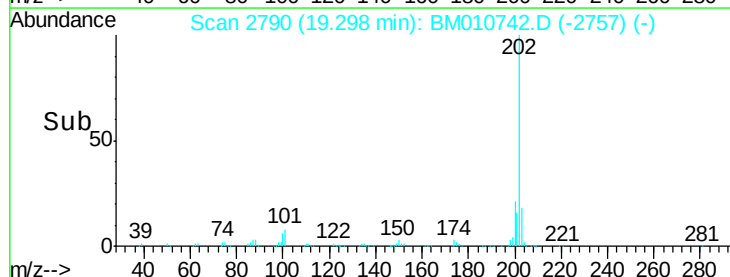
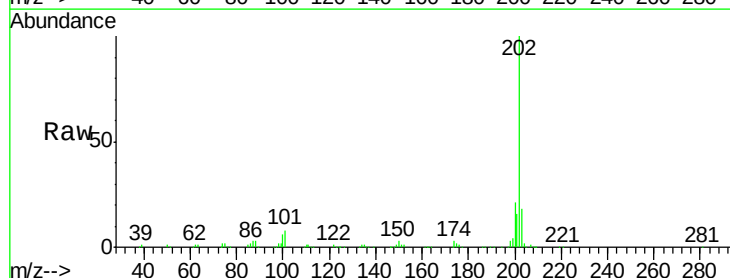
Tgt Ion:202 Resp: 267584

Ion Ratio Lower Upper

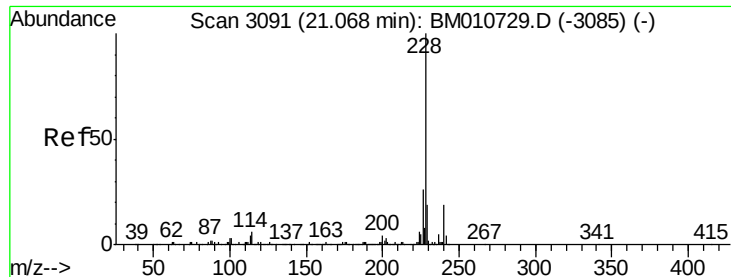
202 100

101 7.6 5.1 7.7

100 5.7 4.9 7.3







#80

Benzo(a)anthracene

Concen: 2.38 ng/ul

RT: 21.06 min Scan# 3090

Delta R.T. -0.01 min

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ClientSampleId :

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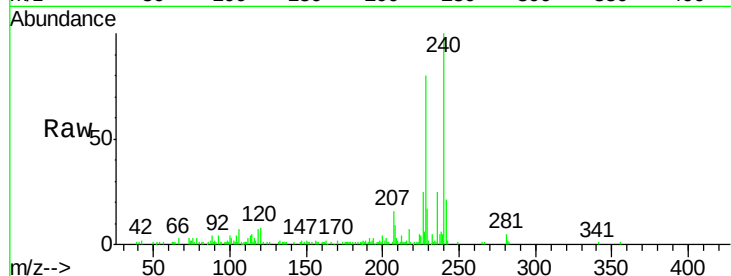
Tgt Ion:228 Resp: 83143

Ion Ratio Lower Upper

228 100

229 20.7 15.4 23.0

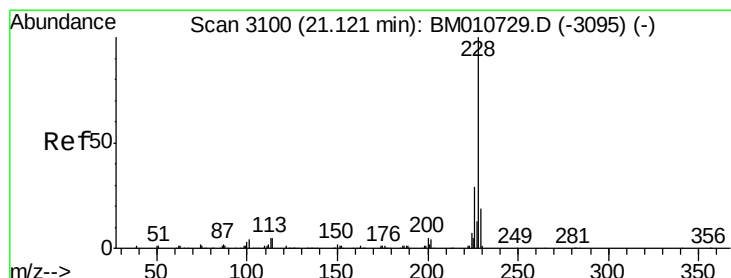
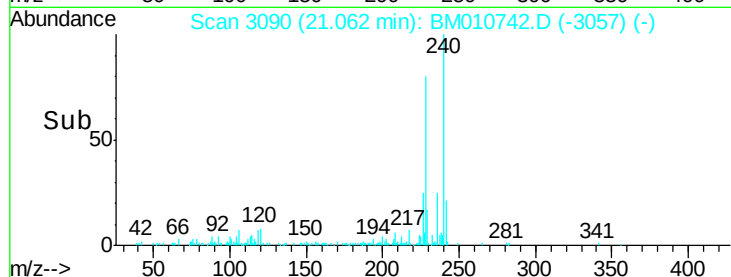
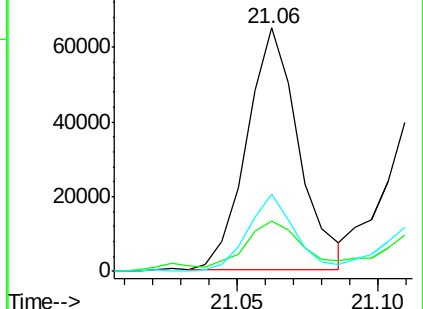
226 31.6 21.4 32.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 2.67 ng/ul

RT: 21.06 min Scan# 3090

Delta R.T. -0.06 min

Lab File: BM010742.D

Acq: 24 Jun 2017 22:28

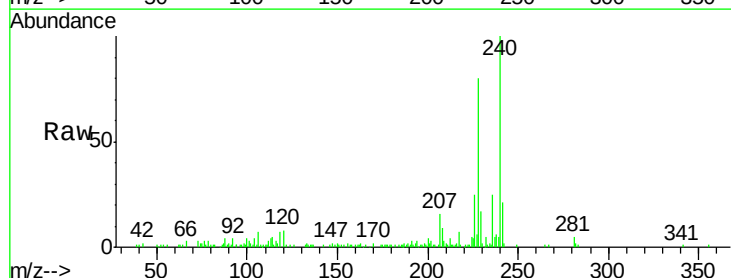
Tgt Ion:228 Resp: 83143

Ion Ratio Lower Upper

228 100

226 31.6 23.4 35.2

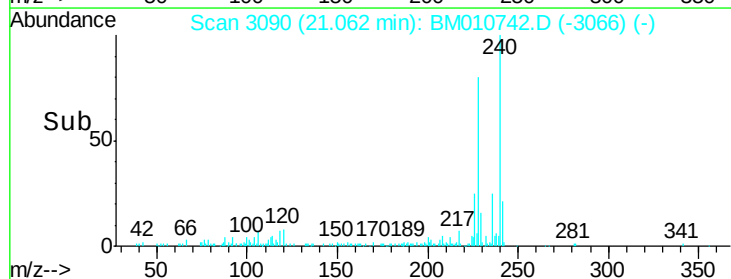
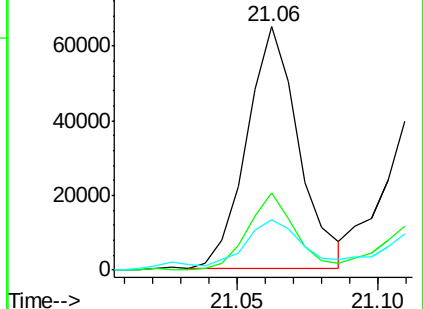
229 20.7 15.5 23.3

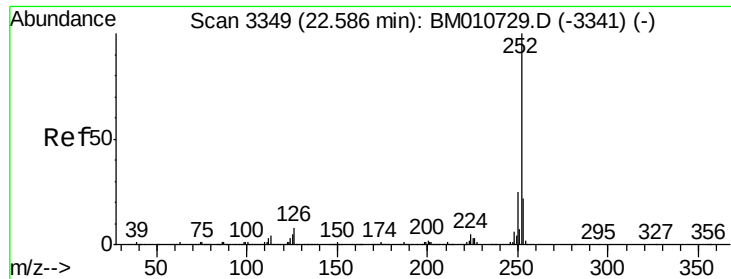


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

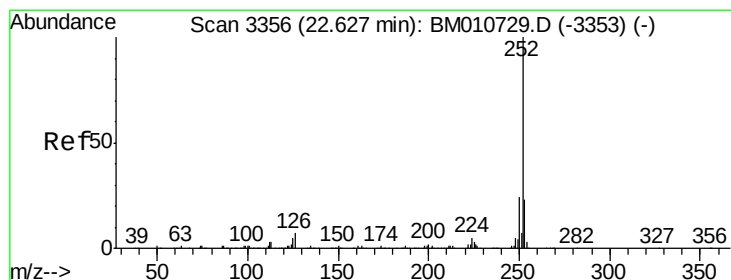
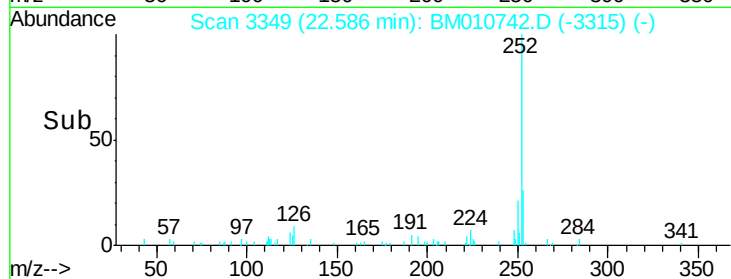
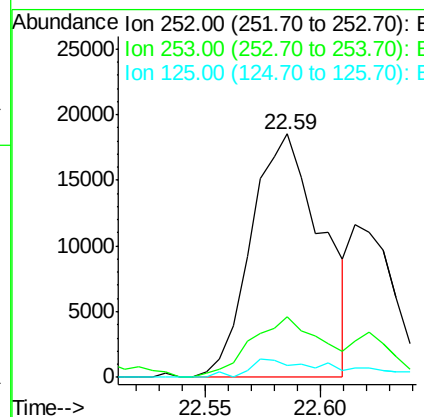
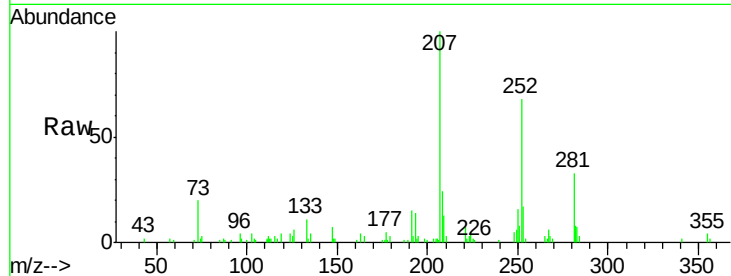




#85  
Benzo(b)fluoranthene  
Concen: 1.27 ng/ul  
RT: 22.59 min Scan# 3349  
Delta R.T. -0.00 min  
Lab File: BM010742.D  
Acq: 24 Jun 2017 22:28

Instrument :  
BNA\_M  
ClientSampleId :  
F5E19MEDL

Tgt Ion:252 Resp: 39426  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.9 26.9  
125 5.1 3.6 5.4



#86  
Benzo(k)fluoranthene  
Concen: 1.34 ng/ul  
RT: 22.59 min Scan# 3349  
Delta R.T. -0.04 min  
Lab File: BM010742.D  
Acq: 24 Jun 2017 22:28

Tgt Ion:252 Resp: 39426  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.1 25.7  
125 5.1 3.4 5.2

