

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE030415\  
 Data File : BE089733.D  
 Acq On : 4 Mar 2015 21:55  
 Operator : TP/JJ  
 Sample : MDL-03-W  
 Misc : MDL-WATER-0.4PPM  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 05 00:24:09 2015

Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM01.2-EPA-SIM-BE030315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Mar 05 00:14:14 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.33  | 152  | 3706     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 12.24 | 136  | 15616    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 16.40 | 164  | 6807     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 19.76 | 188  | 11414    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 23.65 | 240  | 4841     | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.33 | 264  | 2243     | 0.40 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                            |       |     |      |      |       |      |
|----------------------------|-------|-----|------|------|-------|------|
| 2) 1,4-Dioxane-d8          | 2.64  | 96  | 9767 | 2.01 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 13.86 | 152 | 1    | 0.00 | ng/ul | 0.00 |
| 16) Fluoranthene-d10       | 21.70 | 212 | 5    | 0.00 | ng/ul | 0.00 |

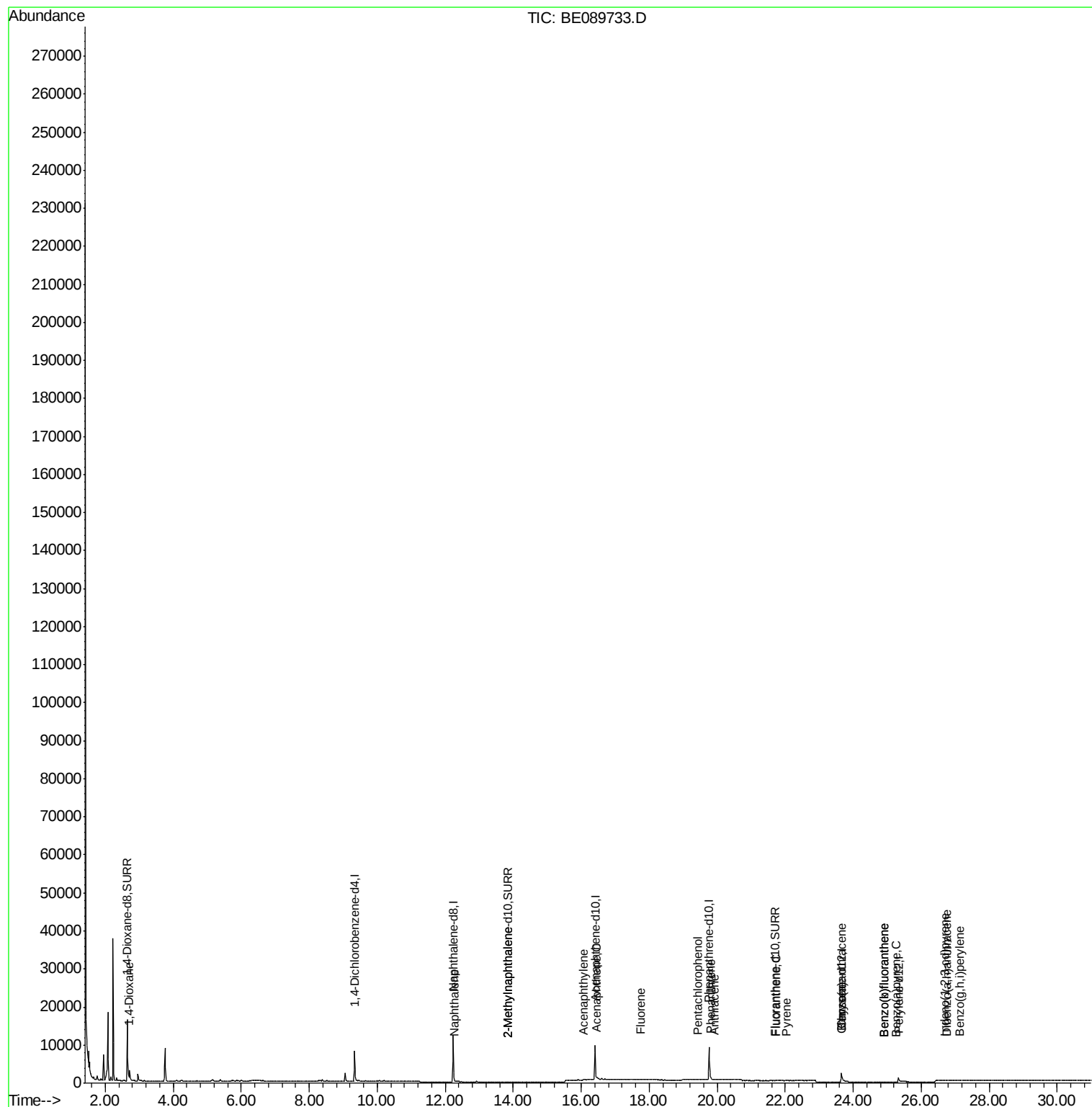
#### Target Compounds

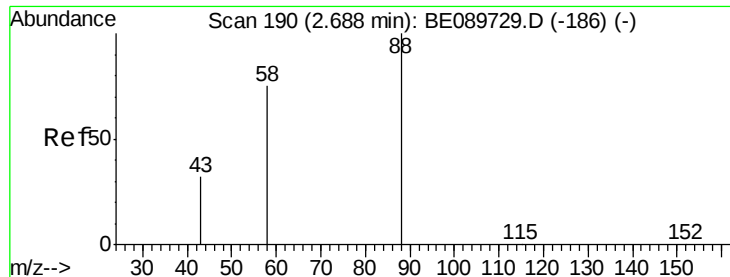
|                            |       |     |      |      |        | Qvalue |
|----------------------------|-------|-----|------|------|--------|--------|
| 3) 1,4-Dioxane             | 2.71  | 88  | 2298 | 0.41 | ng/ul# | 83     |
| 5) Naphthalene             | 12.29 | 128 | 24   | 0.00 | ng/ul# | 1      |
| 7) 2-Methylnaphthalene     | 13.83 | 142 | 3    | 0.00 | ng/ul  | 83     |
| 9) Acenaphthylene          | 16.07 | 152 | 17   | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 16.47 | 153 | 283  | 0.00 | ng/ul# | 40     |
| 11) Fluorene               | 17.73 | 166 | 47   | 0.00 | ng/ul# | 41     |
| 13) Pentachlorophenol      | 19.42 | 266 | 15   | 0.03 | ng/ul# | 55     |
| 14) Phenanthrene           | 19.81 | 178 | 167  | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 19.91 | 178 | 89   | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 21.72 | 202 | 64   | 0.00 | ng/ul# | 1      |
| 19) Pyrene                 | 22.04 | 202 | 60   | 0.00 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 23.64 | 228 | 17   | 0.00 | ng/ul# | 1      |
| 21) Chrysene               | 23.68 | 228 | 19   | 0.00 | ng/ul# | 1      |
| 23) Benzo(b)fluoranthene   | 24.91 | 252 | 11   | 0.00 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 24.91 | 252 | 11   | 0.00 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 25.27 | 252 | 3    | 0.00 | ng/ul# | 1      |
| 26) Indeno(1,2,3-cd)pyrene | 26.70 | 276 | 6    | 0.00 | ng/ul# | 1      |
| 27) Dibenzo(a,h)anthracene | 26.75 | 278 | 2    | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 27.13 | 276 | 17   | 0.00 | ng/ul# | 1      |

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

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Quant Time: Mar 05 00:24:09 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM01.2-EPA-SIM-BE030315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 05 00:14:14 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.41 ng/ul

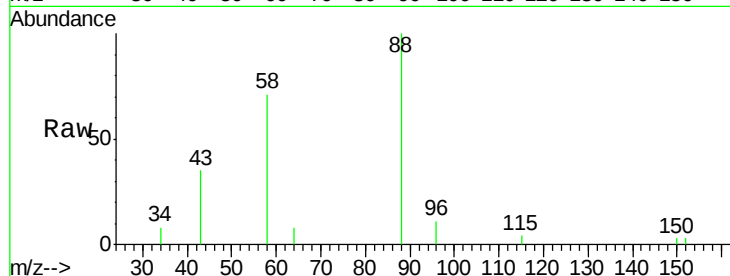
RT: 2.71 min Scan# 193

Delta R.T. 0.02 min

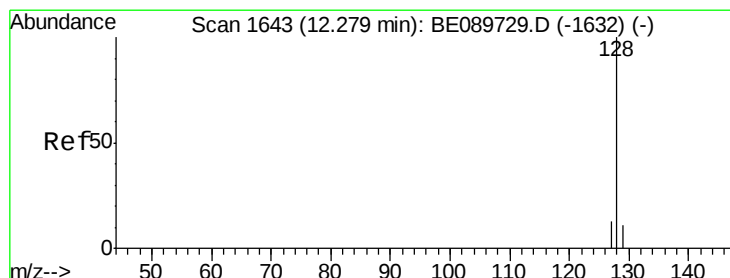
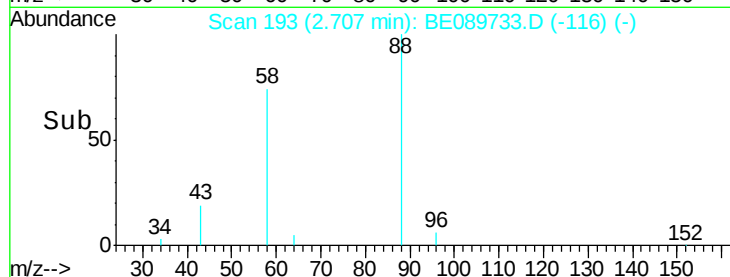
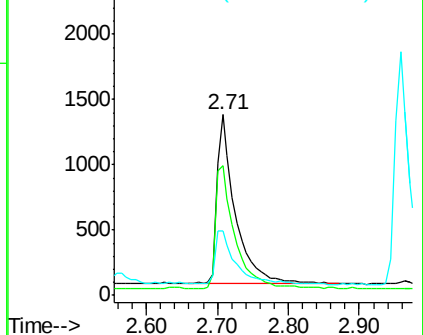
Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 2298  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 76.7  | 61.3  | 91.9  |
| 43       | 0.0   | 26.1  | 39.1# |



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



#5

Naphthalene

Concen: 0.00 ng/ul

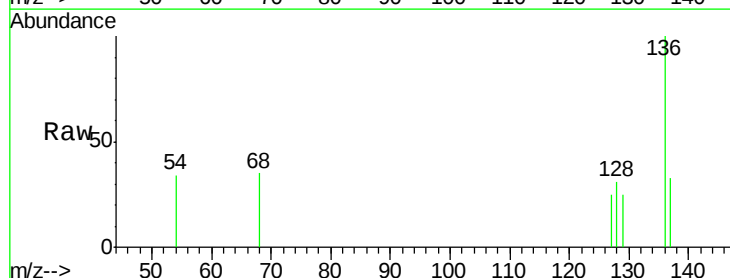
RT: 12.29 min Scan# 1644

Delta R.T. 0.01 min

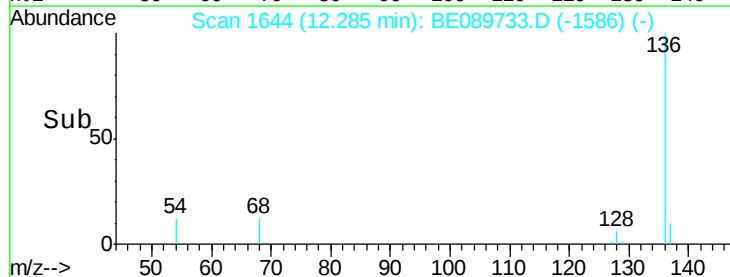
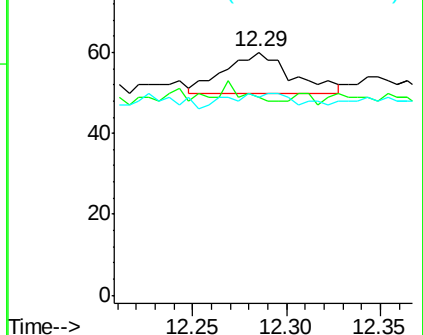
Lab File: BE089733.D

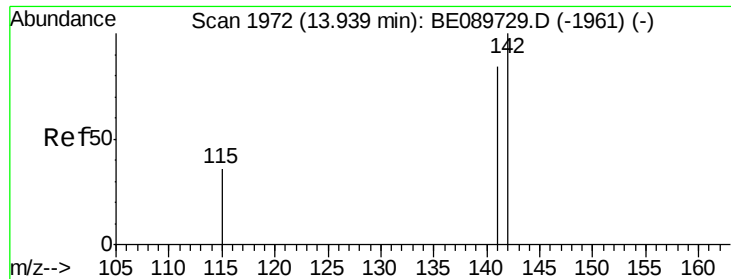
Acq: 4 Mar 2015 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 24    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 81.7  | 9.0   | 13.6# |
| 127      | 81.7  | 10.2  | 15.4# |



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: 13.83 min Scan# 1948

Delta R.T. -0.11 min

Lab File: BE089733.D

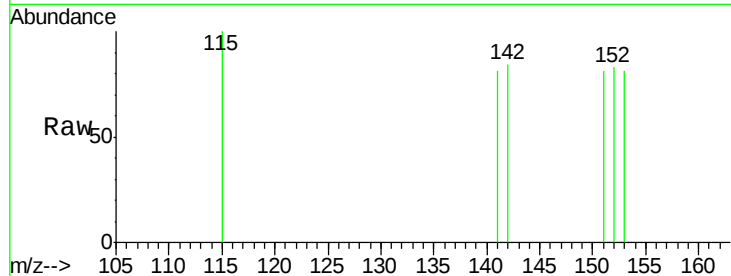
Acq: 4 Mar 2015 21:55

Tgt Ion:142 Resp: 3

Ion Ratio Lower Upper

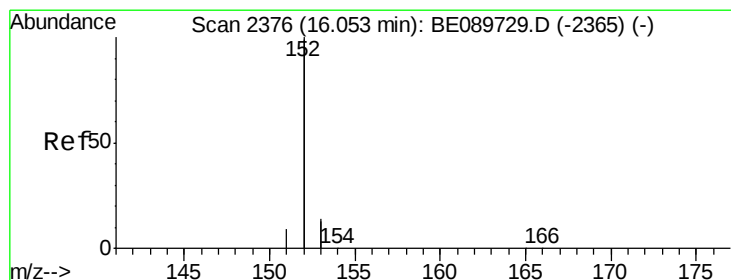
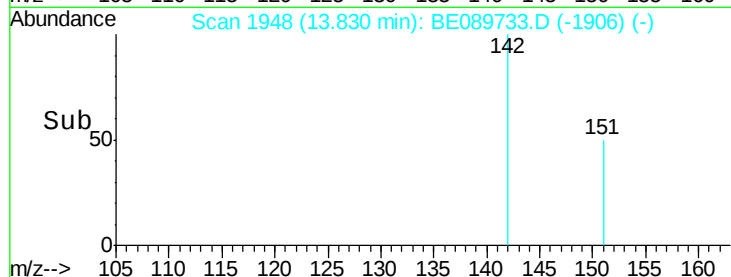
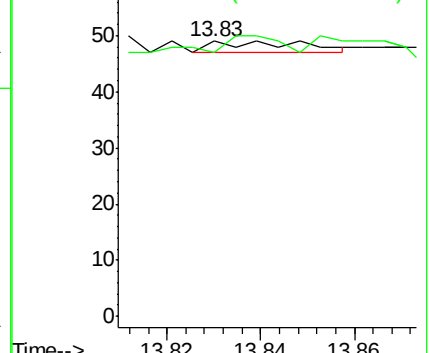
142 100

141 100.0 67.4 101.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 16.07 min Scan# 2378

Delta R.T. 0.02 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

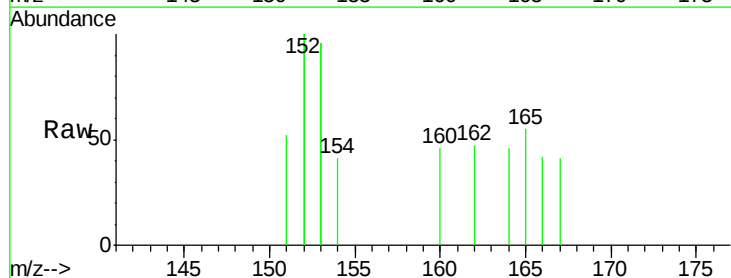
Tgt Ion:152 Resp: 17

Ion Ratio Lower Upper

152 100

151 25.9 3.8 5.8#

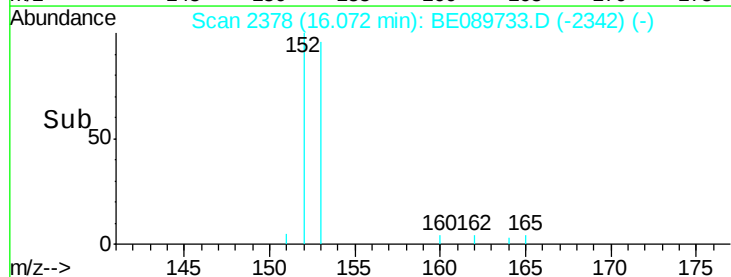
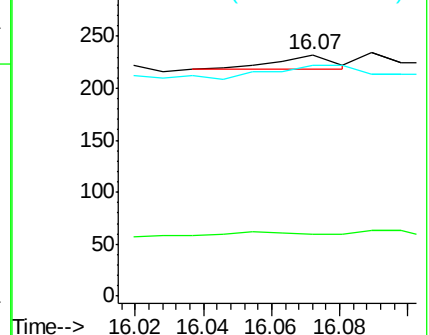
153 95.7 11.4 17.0#

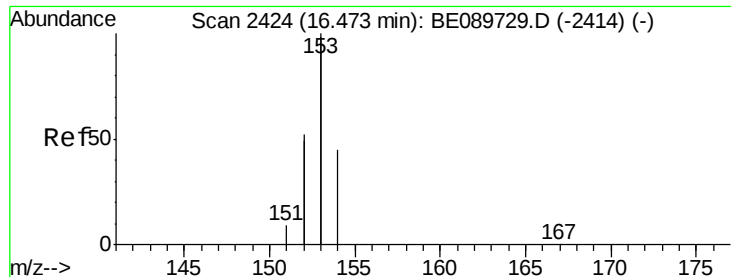


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.00 ng/ul

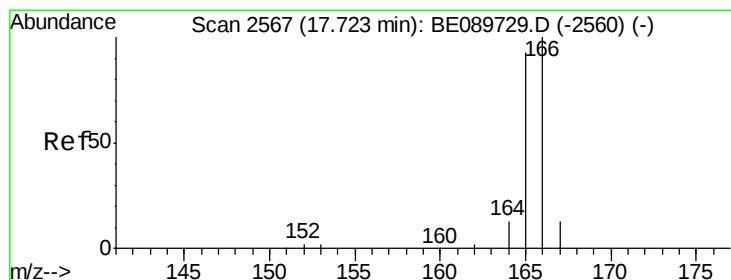
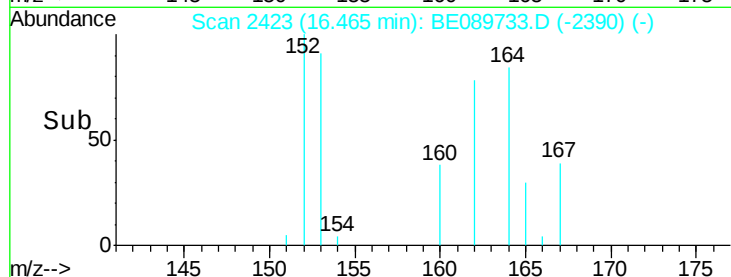
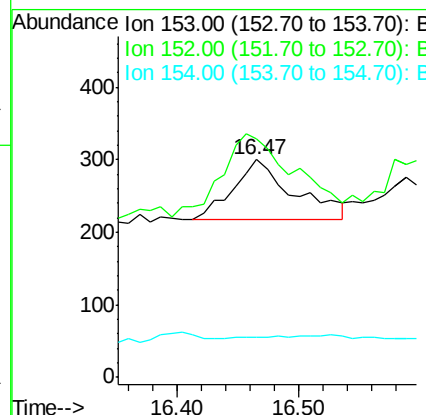
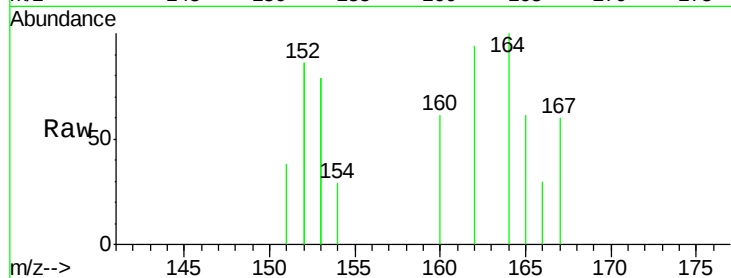
RT: 16.47 min Scan# 2423

Delta R.T. -0.01 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 283   |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 109.3 | 41.2  | 61.8# |
| 154      | 18.3  | 18.2  | 27.2  |



#11

Fluorene

Concen: 0.00 ng/ul

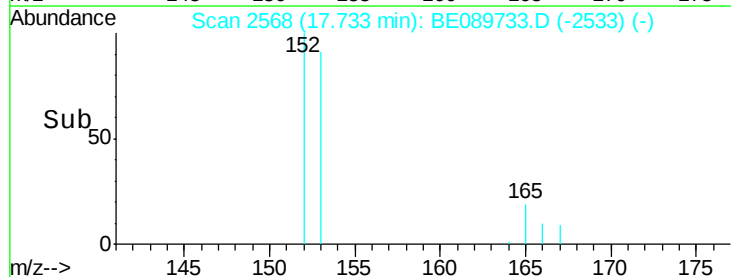
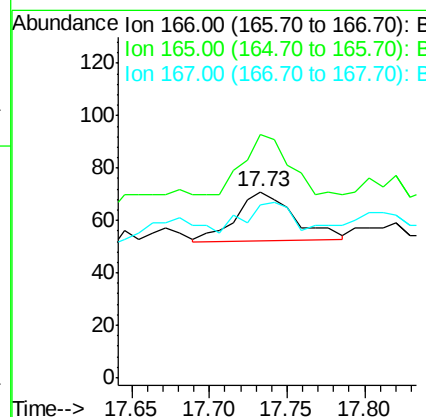
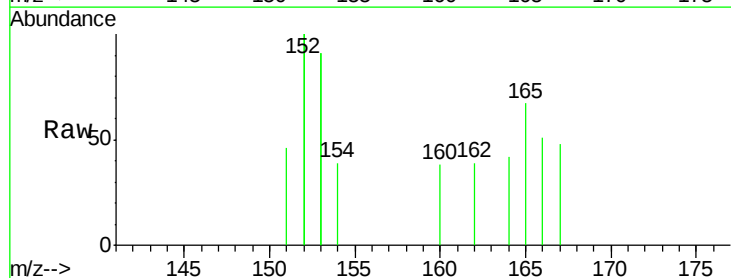
RT: 17.73 min Scan# 2568

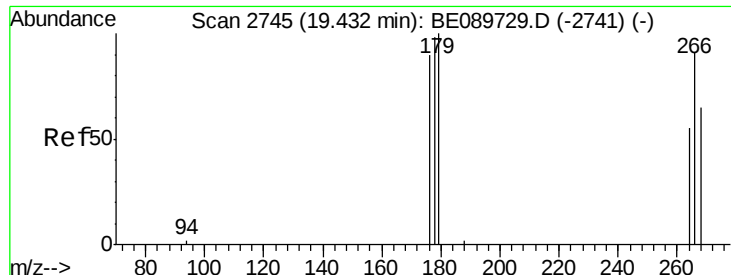
Delta R.T. 0.01 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

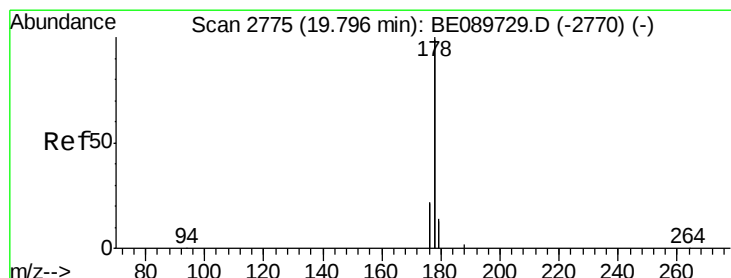
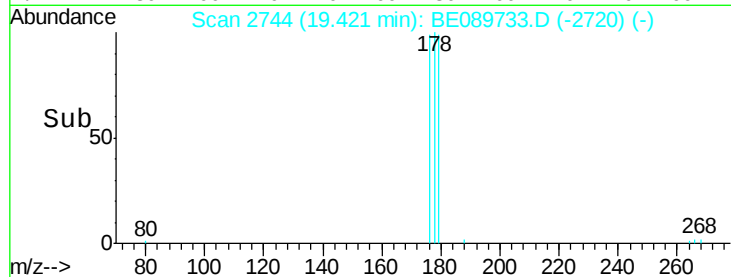
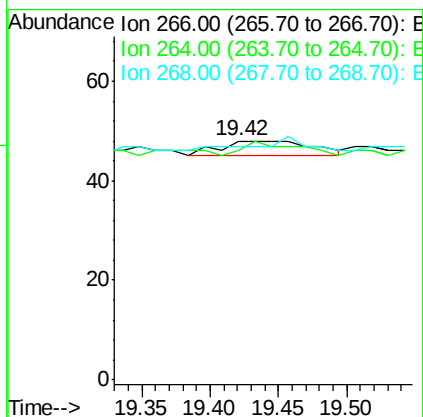
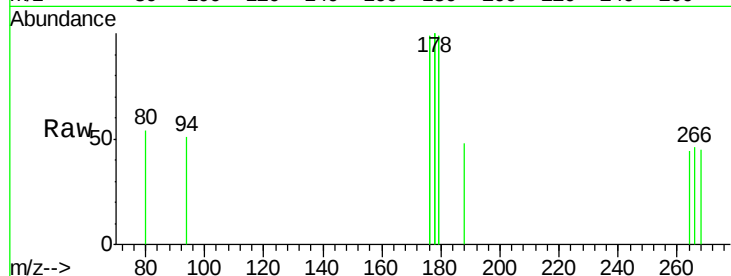
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 47     |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 131.0 | 74.9  | 112.3# |
| 167      | 93.0  | 11.5  | 17.3#  |





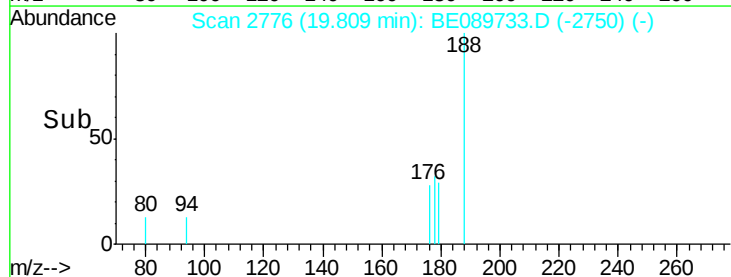
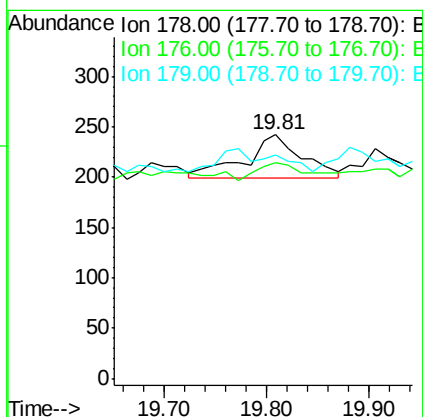
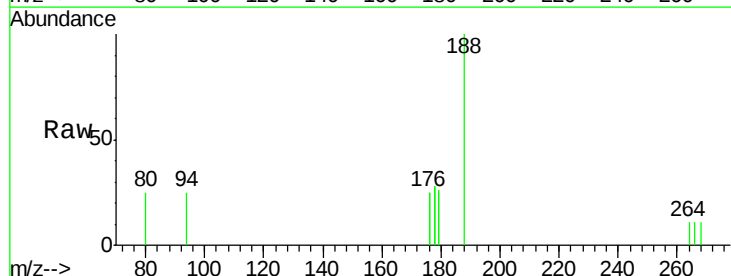
#13  
 Pentachlorophenol  
 Concen: 0.03 ng/ul  
 RT: 19.42 min Scan# 2744  
 Delta R.T. -0.01 min  
 Lab File: BE089733.D  
 Acq: 4 Mar 2015 21:55

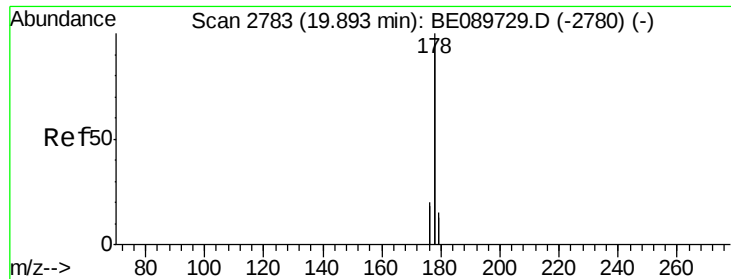
Tgt Ion: 266 Resp: 15  
 Ion Ratio Lower Upper  
 266 100  
 264 53.3 49.4 74.2  
 268 0.0 47.9 71.9#



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 19.81 min Scan# 2776  
 Delta R.T. 0.01 min  
 Lab File: BE089733.D  
 Acq: 4 Mar 2015 21:55

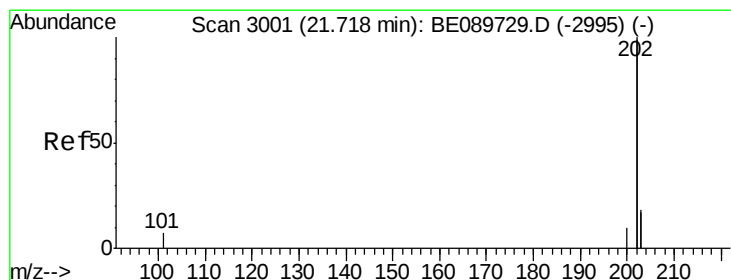
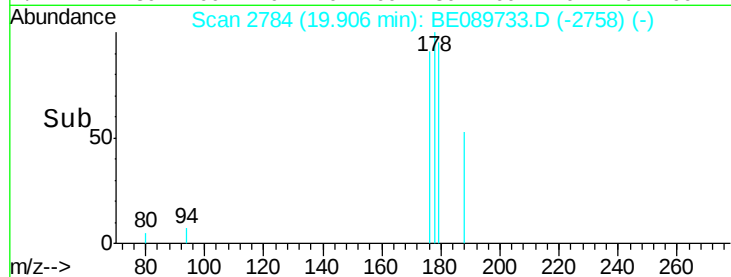
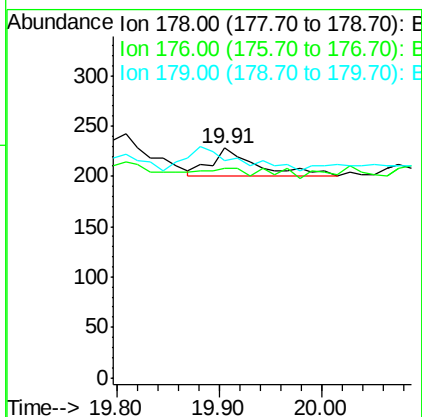
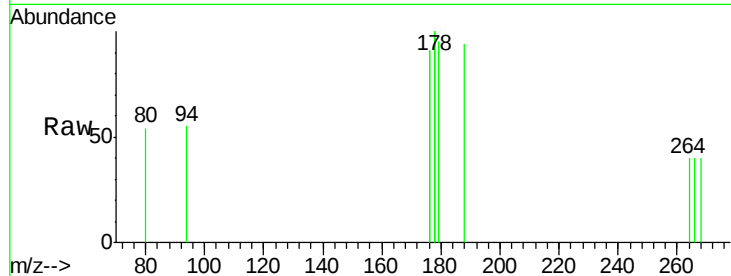
Tgt Ion: 178 Resp: 167  
 Ion Ratio Lower Upper  
 178 100  
 176 88.4 17.6 26.4#  
 179 91.7 11.6 17.4#





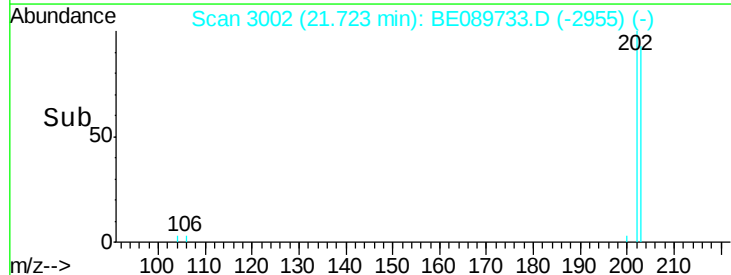
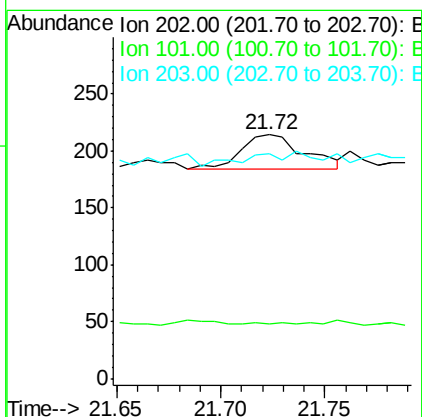
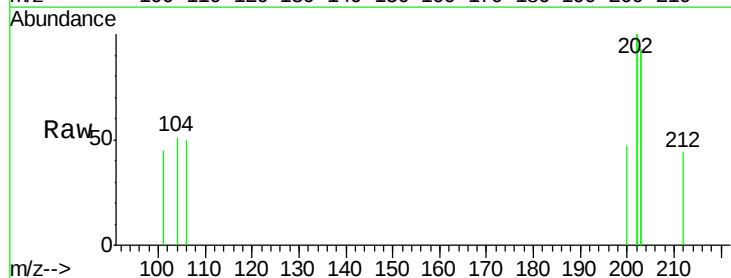
#15  
 Anthracene  
 Concen: 0.00 ng/ul  
 RT: 19.91 min Scan# 2784  
 Delta R.T. 0.01 min  
 Lab File: BE089733.D  
 Acq: 4 Mar 2015 21:55

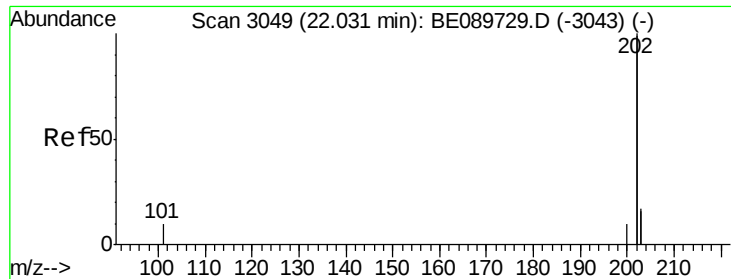
Tgt Ion:178 Resp: 89  
 Ion Ratio Lower Upper  
 178 100  
 176 91.2 15.8 23.6#  
 179 94.7 12.0 18.0#



#17  
 Fluoranthene  
 Concen: 0.00 ng/ul  
 RT: 21.72 min Scan# 3002  
 Delta R.T. 0.01 min  
 Lab File: BE089733.D  
 Acq: 4 Mar 2015 21:55

Tgt Ion:202 Resp: 64  
 Ion Ratio Lower Upper  
 202 100  
 101 22.4 0.0 24.2  
 203 92.5 0.0 37.0#





#19

Pyrene

Concen: 0.00 ng/ul

RT: 22.04 min Scan# 3050

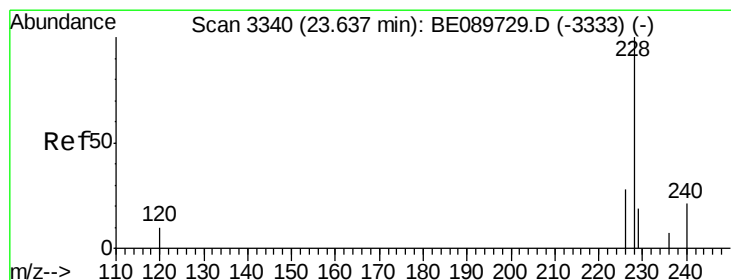
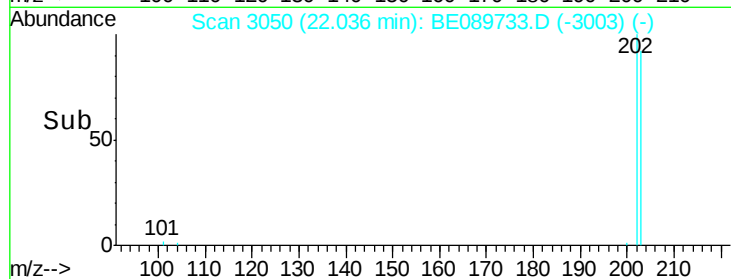
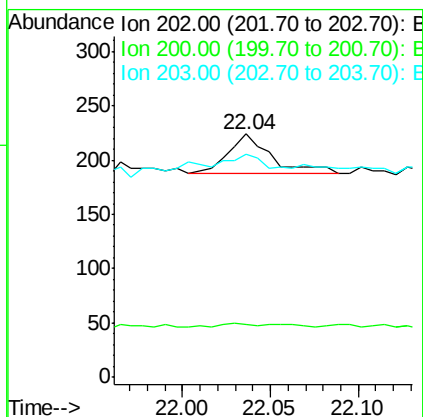
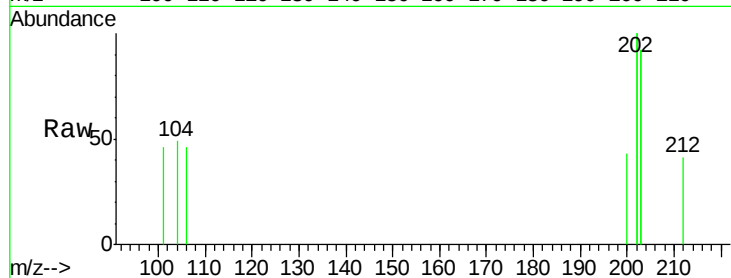
Delta R.T. 0.01 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

Tgt Ion: 202 Resp: 60

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.4  | 4.4   | 6.6#  |
| 203 | 92.0  | 13.6  | 20.4# |



#20

Benzo(a)anthracene

Concen: 0.00 ng/ul

RT: 23.64 min Scan# 3340

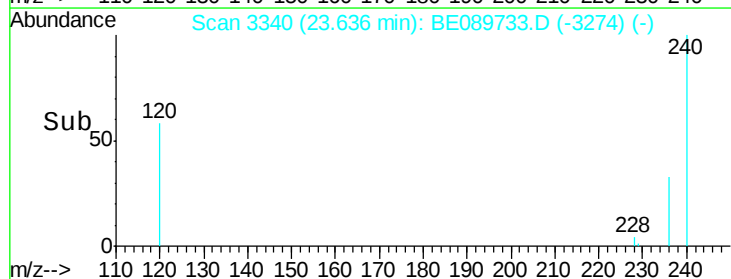
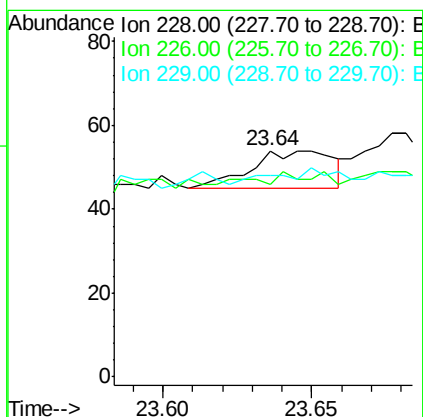
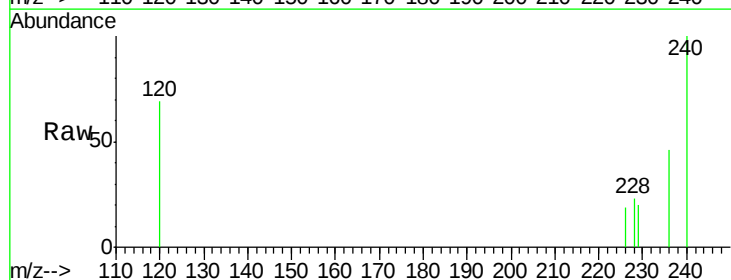
Delta R.T. -0.00 min

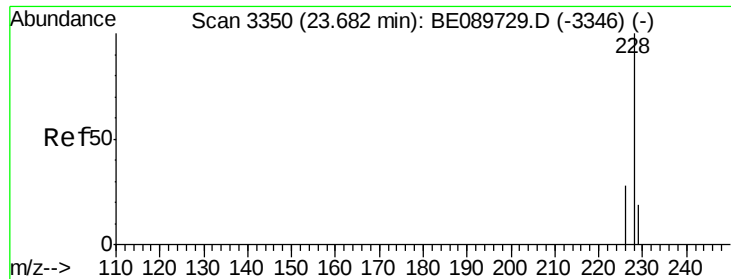
Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

Tgt Ion: 228 Resp: 17

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 85.2  | 22.8  | 34.2# |
| 229 | 88.9  | 16.2  | 24.2# |





#21

Chrysene

Concen: 0.00 ng/ul

RT: 23.68 min Scan# 3349

Delta R.T. -0.01 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

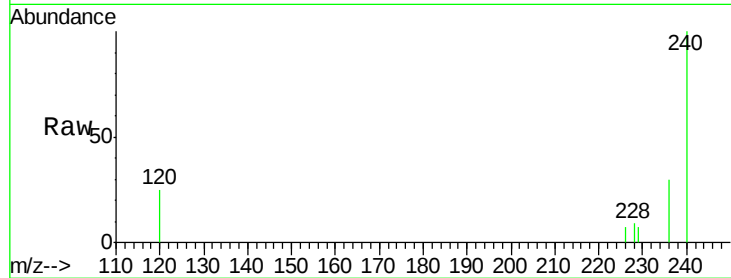
Tgt Ion: 228 Resp: 19

Ion Ratio Lower Upper

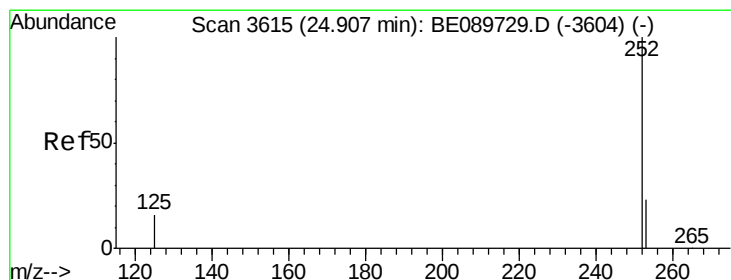
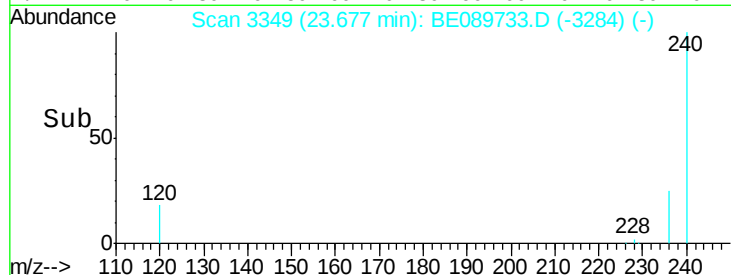
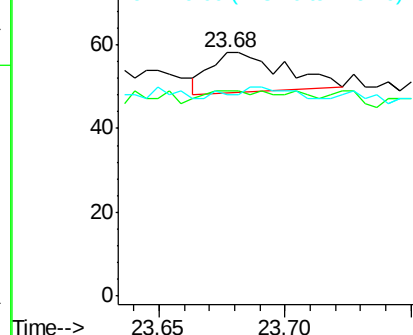
228 100

226 84.5 23.7 35.5#

229 82.8 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



#23

Benzo(b)fluoranthene

Concen: 0.00 ng/ul

RT: 24.91 min Scan# 3615

Delta R.T. -0.00 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

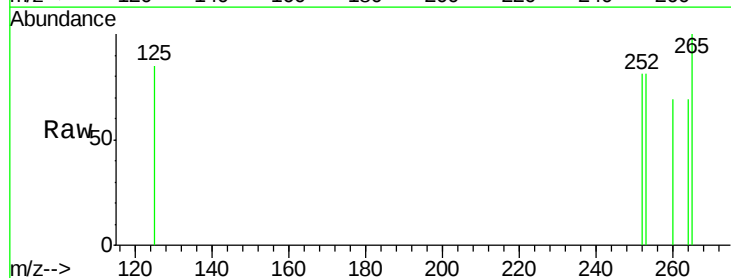
Tgt Ion: 252 Resp: 11

Ion Ratio Lower Upper

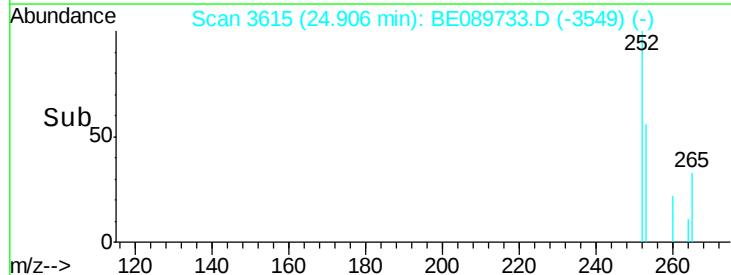
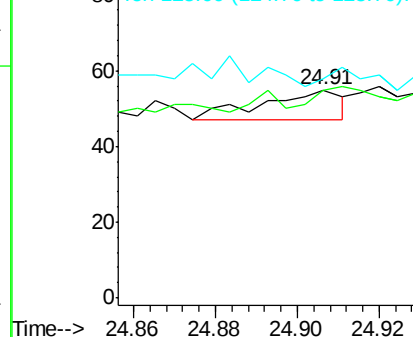
252 100

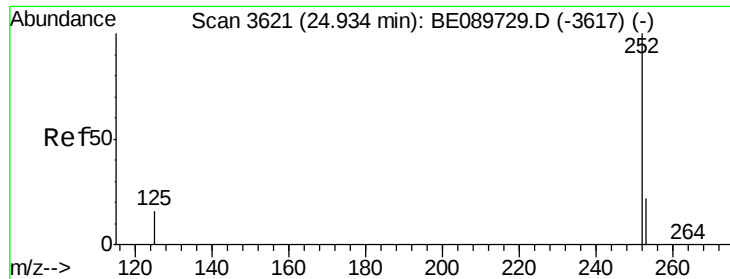
253 100.0 0.0 47.0#

125 105.5 0.0 37.8#



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

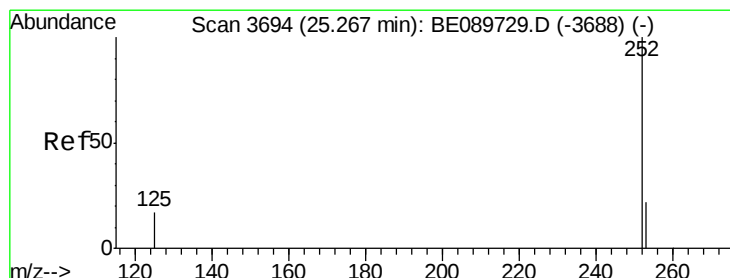
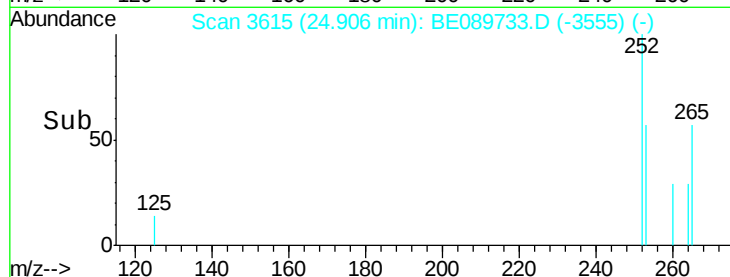
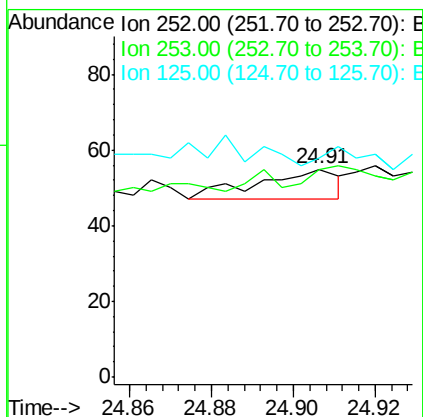
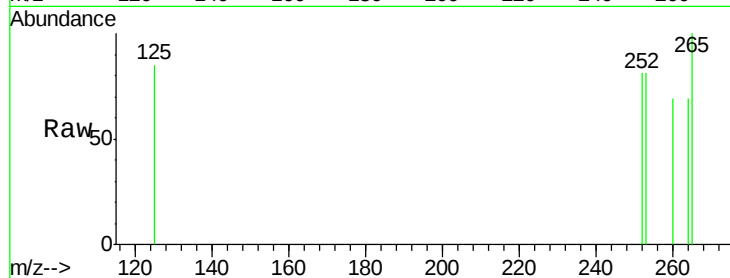
RT: 24.91 min Scan# 3615

Delta R.T. -0.03 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 11    |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 100.0 | 18.2  | 27.4# |
| 125      | 105.5 | 14.6  | 22.0# |



#25

Benzo(a)pyrene

Concen: 0.00 ng/ul

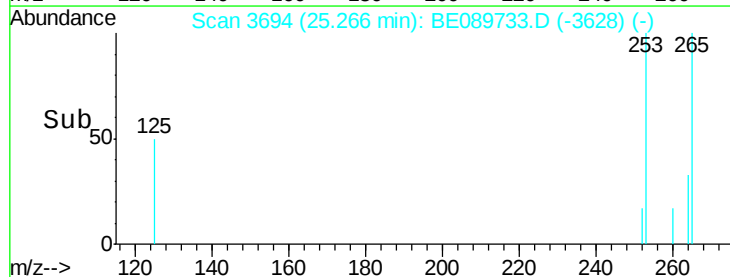
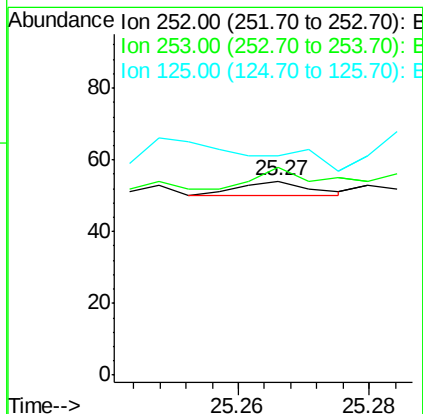
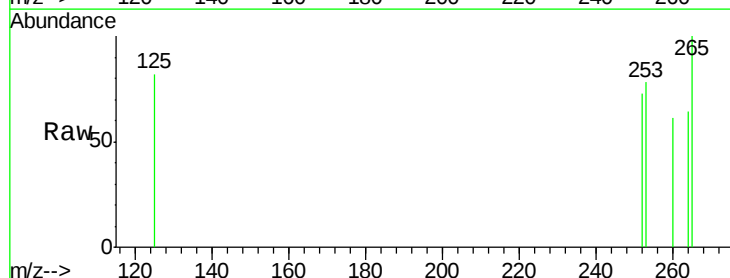
RT: 25.27 min Scan# 3694

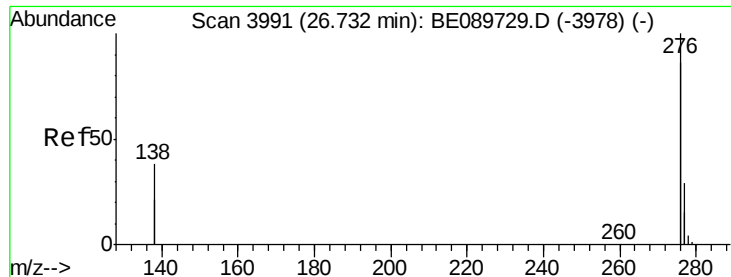
Delta R.T. -0.00 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 3     |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 107.4 | 19.8  | 29.6# |
| 125      | 113.0 | 16.0  | 24.0# |

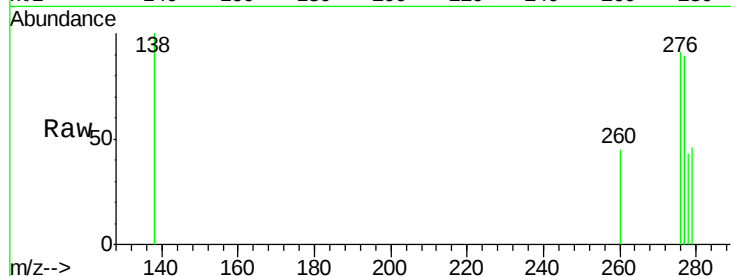




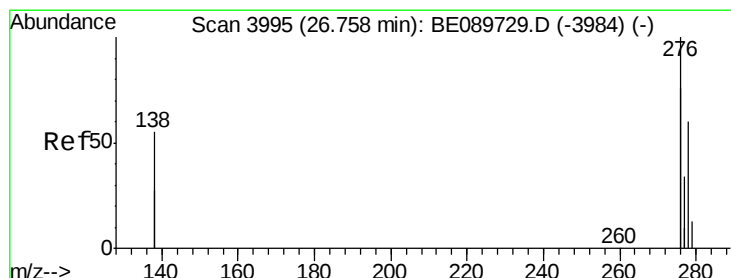
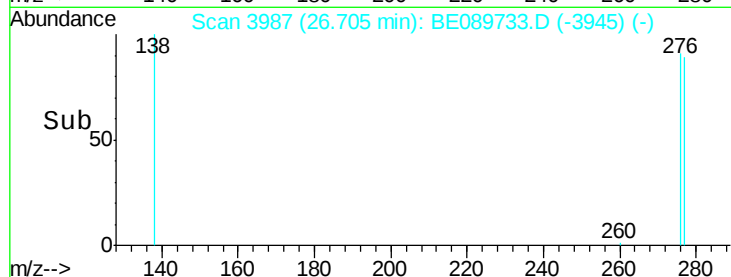
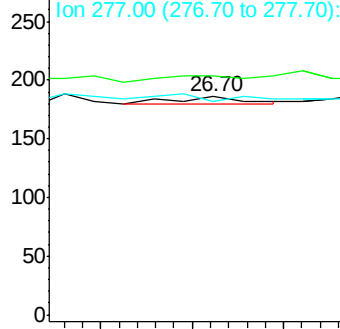
#26

Indeno(1,2,3-cd)pyrene  
Concen: 0.00 ng/ul  
RT: 26.70 min Scan# 3987  
Delta R.T. -0.03 min  
Lab File: BE089733.D  
Acq: 4 Mar 2015 21:55

Tgt Ion: 276 Resp: 6  
Ion Ratio Lower Upper  
276 100  
138 266.7 36.8 55.2#  
277 0.0 20.6 31.0#



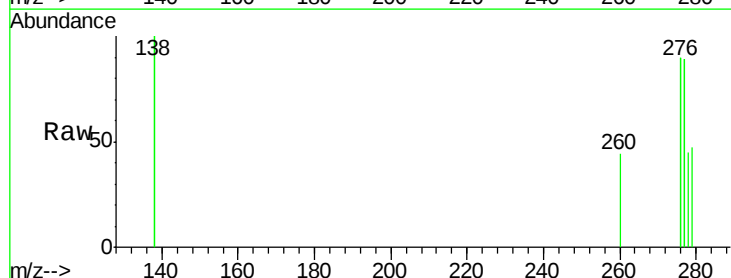
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



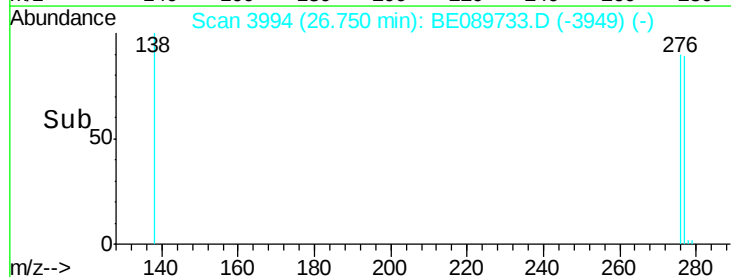
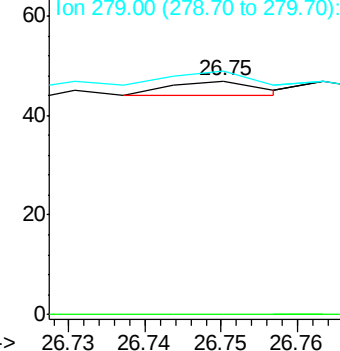
#27

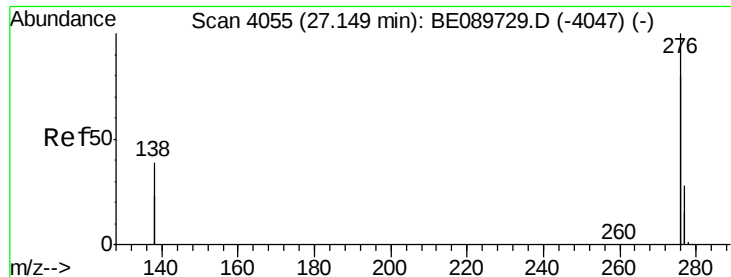
Dibenzo(a,h)anthracene  
Concen: 0.00 ng/ul  
RT: 26.75 min Scan# 3994  
Delta R.T. -0.01 min  
Lab File: BE089733.D  
Acq: 4 Mar 2015 21:55

Tgt Ion: 278 Resp: 2  
Ion Ratio Lower Upper  
278 100  
139 0.0 0.0 0.0  
279 104.3 25.4 38.2#



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





#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 27.13 min Scan# 4053

Delta R.T. -0.01 min

Lab File: BE089733.D

Acq: 4 Mar 2015 21:55

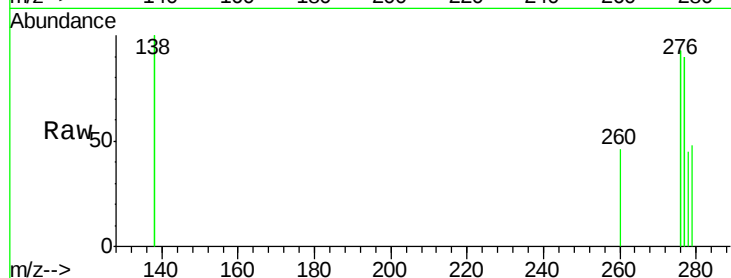
Tgt Ion: 276 Resp: 17

Ion Ratio Lower Upper

276 100

277 96.9 21.4 32.2#

138 107.3 31.4 47.0#



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

