

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110617\  
 Data File : BE094762.D  
 Acq On : 6 Nov 2017 20:26  
 Operator : SJ/JU  
 Sample : I6096-03 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-52(0-1)-102317

Quant Time: Nov 07 01:30:48 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 07 01:23:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.90  | 152  | 1459     | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.69 | 136  | 8275     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.51 | 164  | 4571     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 10416    | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.43 | 240  | 10015    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.97 | 264  | 10247    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 453      | 0.03 | ng/ul | -0.02    |
| 14) Fluoranthene-d10        | 19.28 | 212  | 826      | 0.03 | ng/ul | 0.00     |

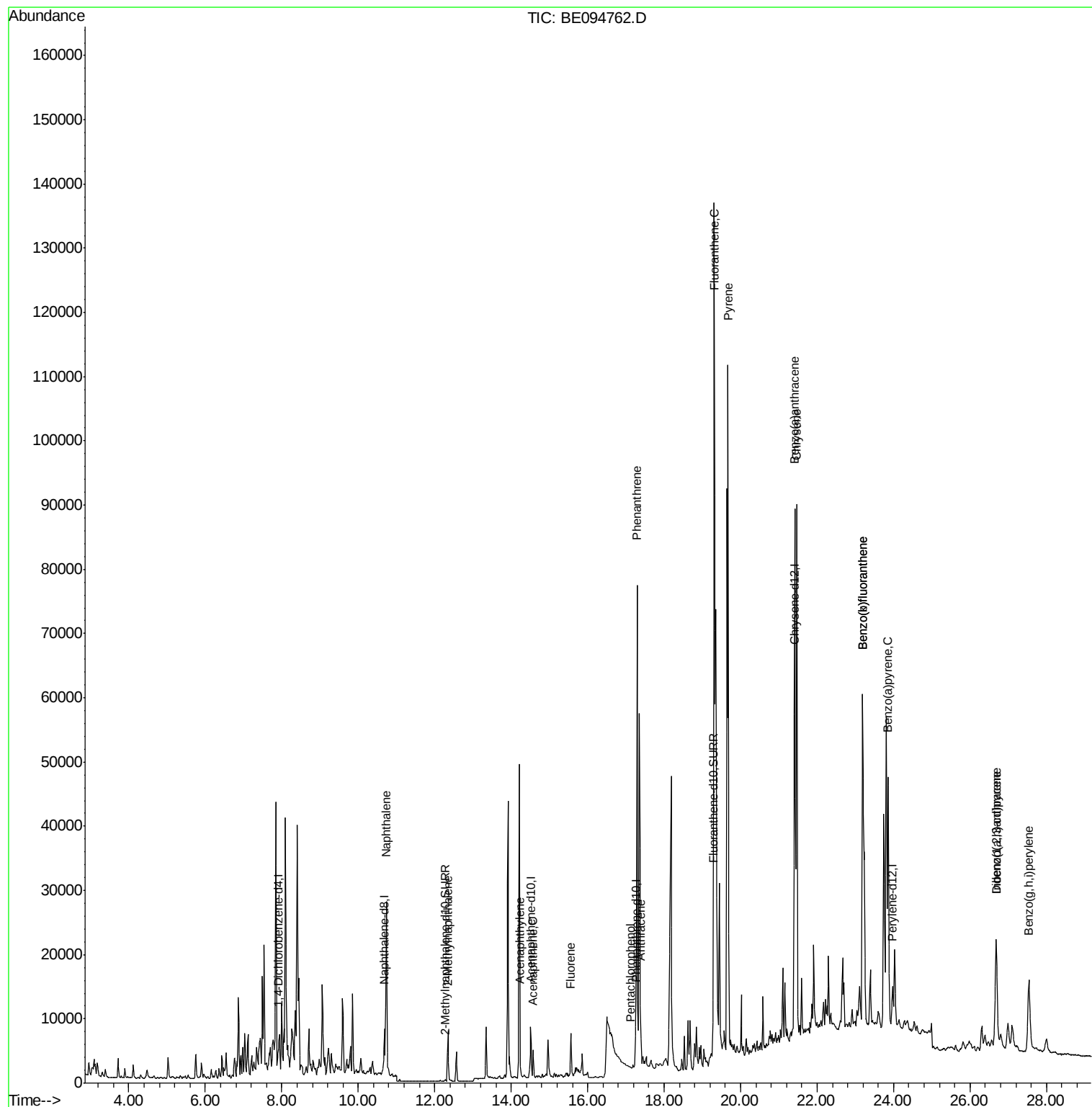
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.73 | 128  | 44756    | 2.21 | ng/ul# | 93     |
| 5) 2-Methylnaphthalene     | 12.34 | 142  | 7200     | 0.51 | ng/ul  | 97     |
| 7) Acenaphthylene          | 14.24 | 152  | 1732     | 0.08 | ng/ul# | 81     |
| 8) Acenaphthene            | 14.57 | 153  | 2704     | 0.18 | ng/ul  | 96     |
| 9) Fluorene                | 15.56 | 166  | 4531     | 0.27 | ng/ul  | 92     |
| 11) Pentachlorophenol      | 17.12 | 266  | 14       | 0.03 | ng/ul# | 1      |
| 12) Phenanthrene           | 17.29 | 178  | 84264    | 3.06 | ng/ul# | 90     |
| 13) Anthracene             | 17.38 | 178  | 11290    | 0.42 | ng/ul# | 80     |
| 15) Fluoranthene           | 19.31 | 202  | 122068   | 3.84 | ng/ul  | 81     |
| 17) Pyrene                 | 19.67 | 202  | 119046   | 3.85 | ng/ul# | 83     |
| 18) Benzo(a)anthracene     | 21.41 | 228  | 76941    | 2.69 | ng/ul# | 89     |
| 19) Chrysene               | 21.47 | 228  | 88079    | 2.98 | ng/ul  | 96     |
| 21) Benzo(b)fluoranthene   | 23.19 | 252  | 131343   | 4.56 | ng/ul  | 92     |
| 22) Benzo(k)fluoranthene   | 23.19 | 252  | 131328   | 4.25 | ng/ul  | 94     |
| 23) Benzo(a)pyrene         | 23.86 | 252  | 64521    | 2.24 | ng/ul# | 88     |
| 24) Indeno(1,2,3-cd)pyrene | 26.69 | 276  | 38511    | 1.29 | ng/ul# | 73     |
| 25) Dibenzo(a,h)anthracene | 26.68 | 278  | 9421     | 0.38 | ng/ul# | 58     |
| 26) Benzo(g,h,i)perylene   | 27.54 | 276  | 32364    | 1.35 | ng/ul# | 92     |

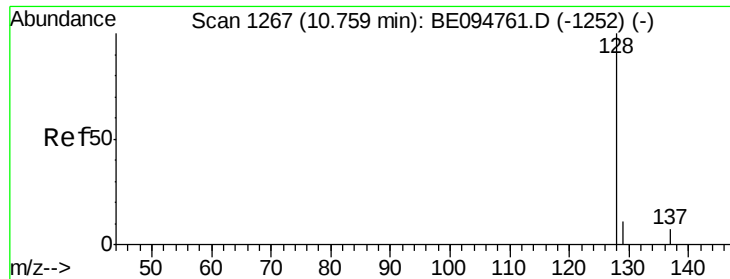
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 07 01:23:46 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.21 ng/ul

RT: 10.73 min Scan# 1262

Delta R.T. -0.03 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

Instrument :

BNA\_E

ClientSampleId :

B-52(0-1)-102317

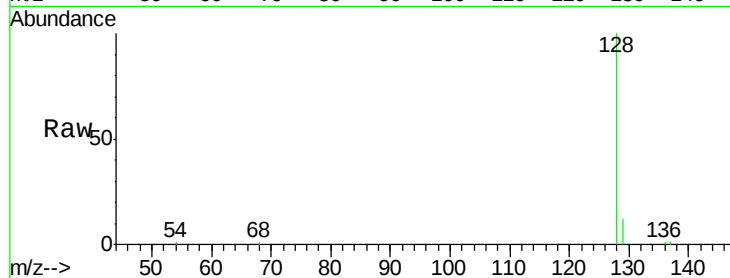
Tot Ion:128 Resp: 44756

Ion Ratio Lower Upper

128 100

129 12.3 11.3 16.9

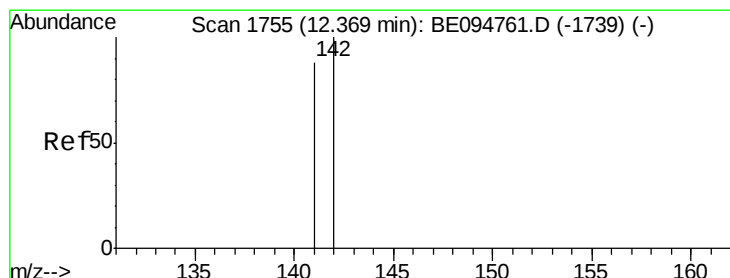
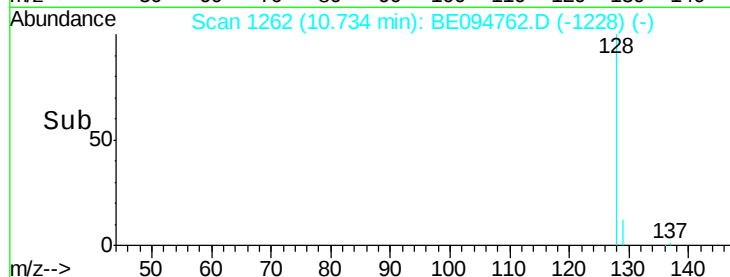
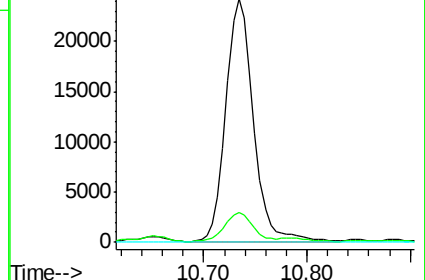
127 0.0 4.0 6.0#



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: 0.51 ng/ul

RT: 12.34 min Scan# 1747

Delta R.T. -0.02 min

Lab File: BE094762.D

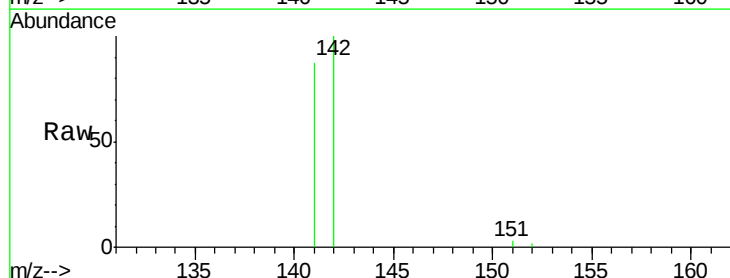
Acq: 6 Nov 2017 20:26

Tgt Ion:142 Resp: 7200

Ion Ratio Lower Upper

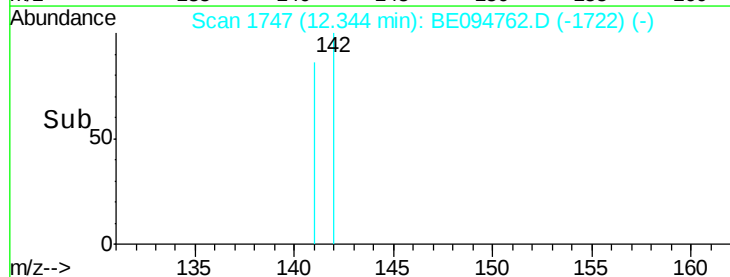
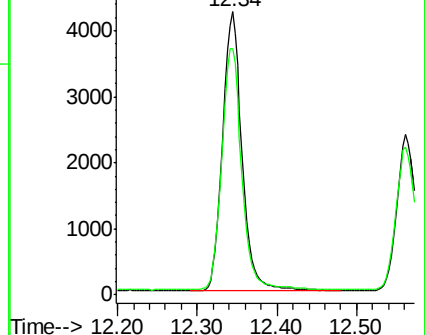
142 100

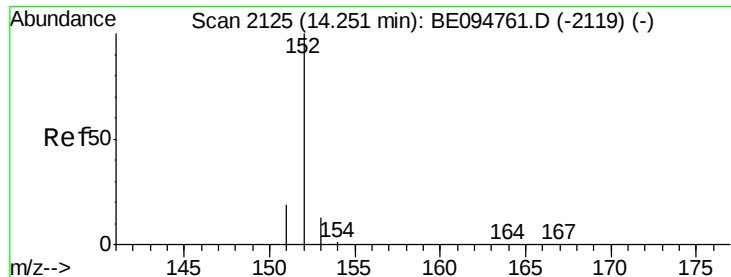
141 88.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.08 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

Instrument :

BNA\_E

ClientSampleId :

B-52(0-1)-102317

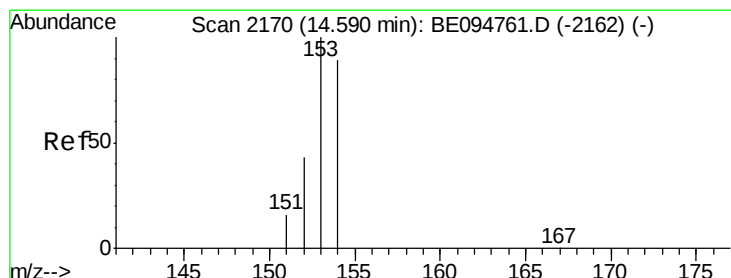
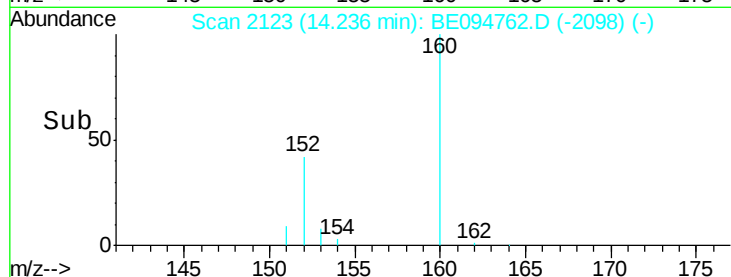
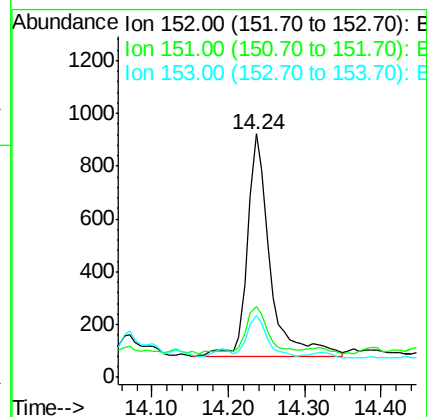
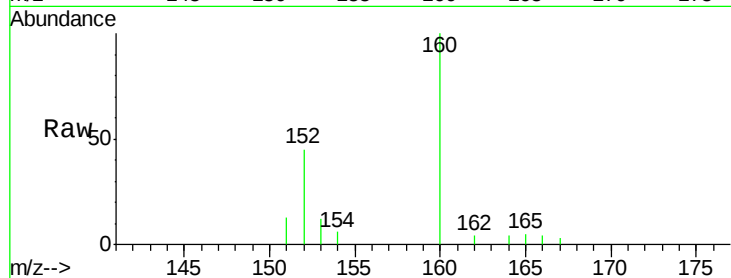
Tot Ion:152 Resp: 1732

Ion Ratio Lower Upper

152 100

151 29.1 17.1 25.7#

153 25.6 12.8 19.2#



#8

Acenaphthene

Concen: 0.18 ng/ul

RT: 14.57 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

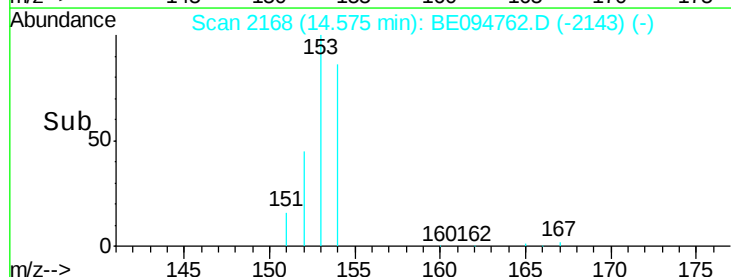
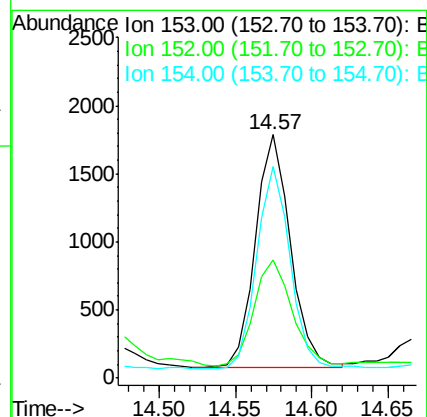
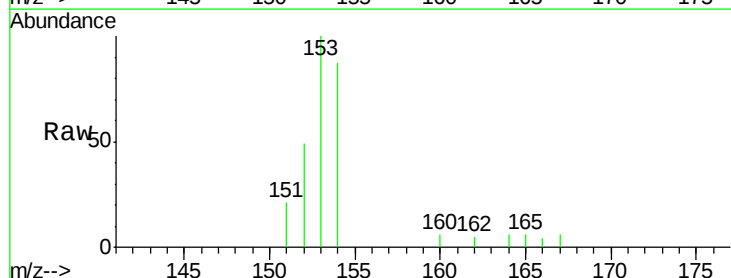
Tgt Ion:153 Resp: 2704

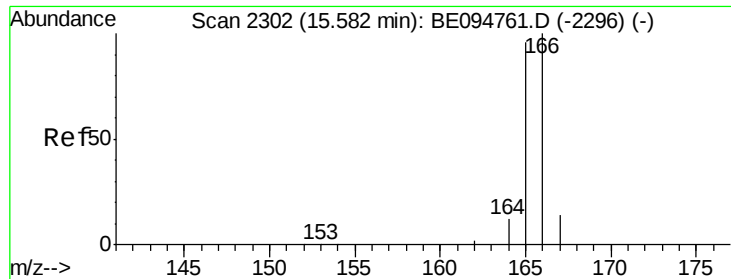
Ion Ratio Lower Upper

153 100

152 48.8 36.0 54.0

154 86.9 72.0 108.0

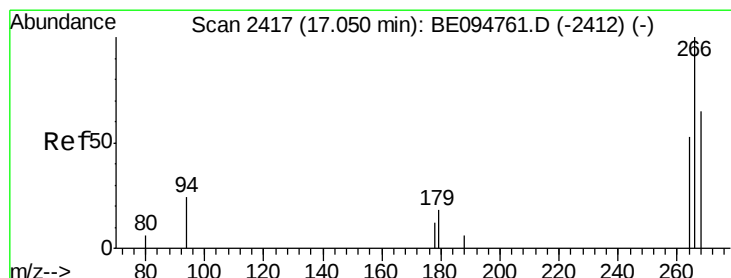
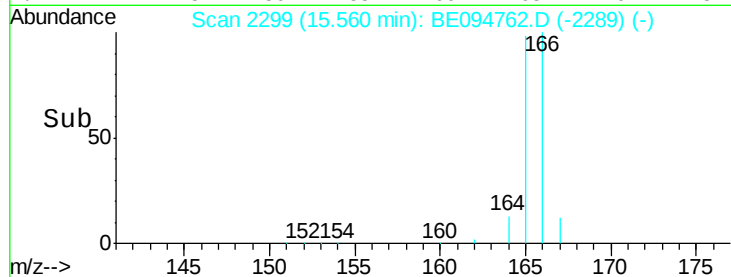
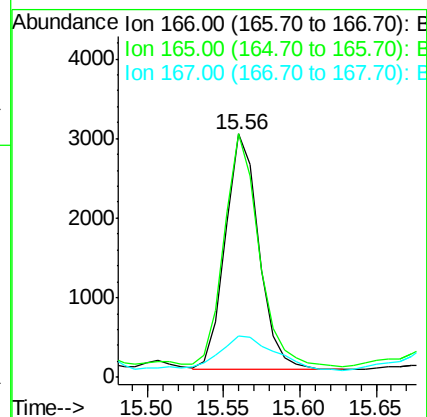
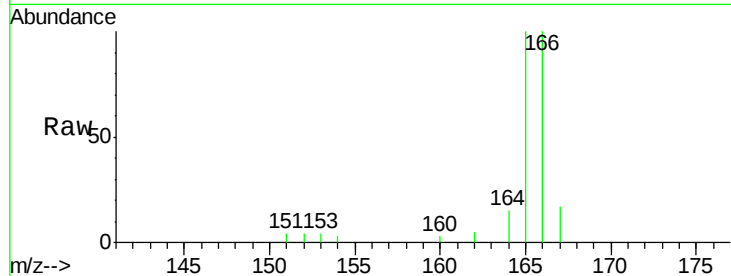




#9  
**Fluorene**  
 Concen: 0.27 ng/ul  
 RT: 15.56 min Scan# 2299  
 Delta R.T. -0.02 min  
 Lab File: BE094762.D  
 Acq: 6 Nov 2017 20:26

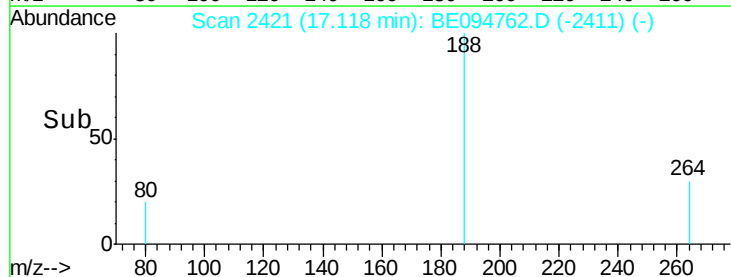
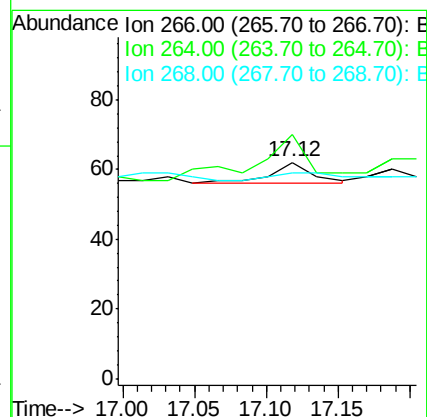
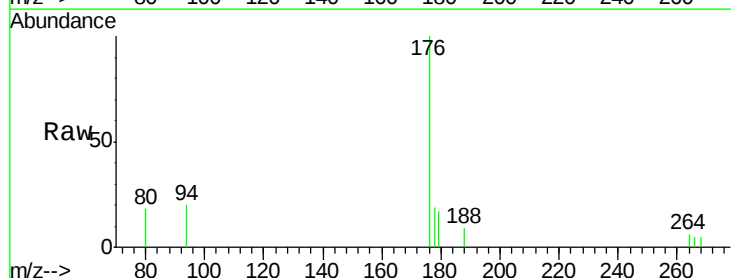
Instrument :  
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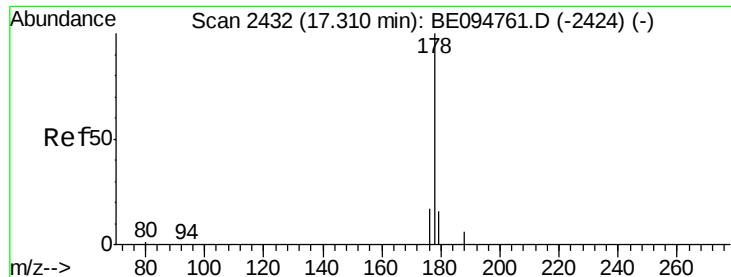
Tot Ion:166 Resp: 4531  
 Ion Ratio Lower Upper  
 166 100  
 165 99.9 73.4 110.2  
 167 16.8 14.6 22.0



#11  
**Pentachlorophenol**  
 Concen: 0.03 ng/ul  
 RT: 17.12 min Scan# 2421  
 Delta R.T. 0.07 min  
 Lab File: BE094762.D  
 Acq: 6 Nov 2017 20:26

Tgt Ion:266 Resp: 14  
 Ion Ratio Lower Upper  
 266 100  
 264 235.7 47.9 71.9#  
 268 50.0 49.8 74.8





#12

Phenanthrene

Concen: 3.06 ng/ul

RT: 17.29 min Scan# 2431

Delta R.T. -0.02 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

Instrument :

BNA\_E

ClientSampleId :

B-52(0-1)-102317

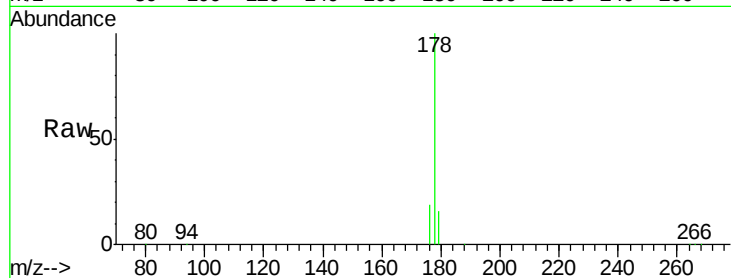
Tot Ion:178 Resp: 84264

Ion Ratio Lower Upper

178 100

179 16.3 18.4 27.6#

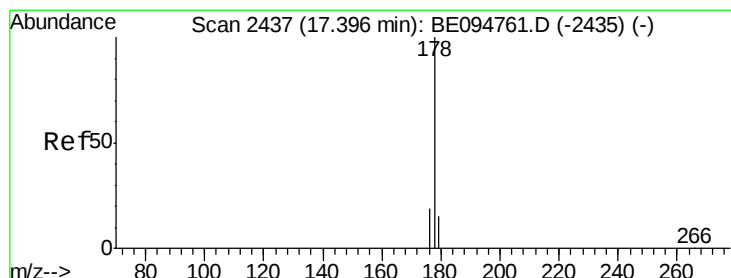
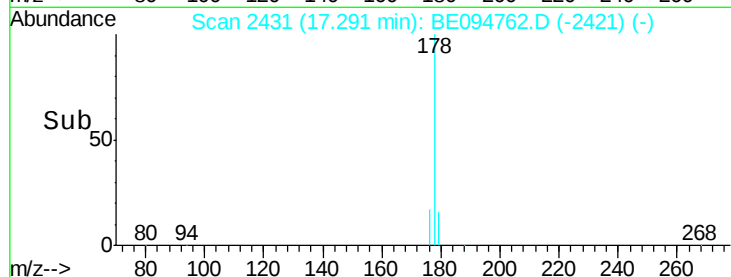
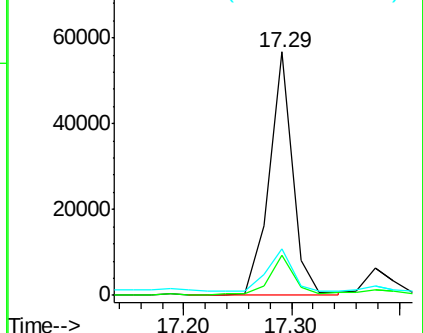
176 18.9 13.6 20.4



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



#13

Anthracene

Concen: 0.42 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

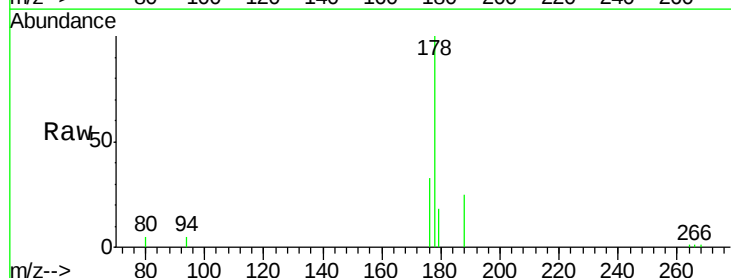
Tgt Ion:178 Resp: 11290

Ion Ratio Lower Upper

178 100

179 18.1 18.1 27.1

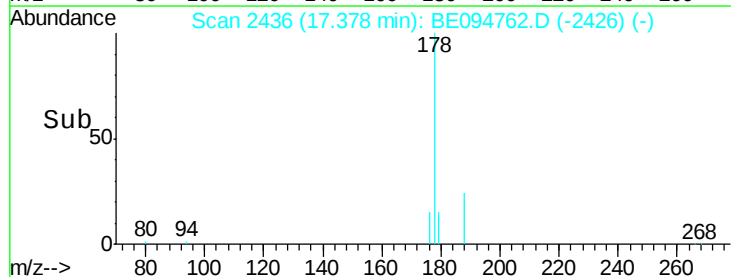
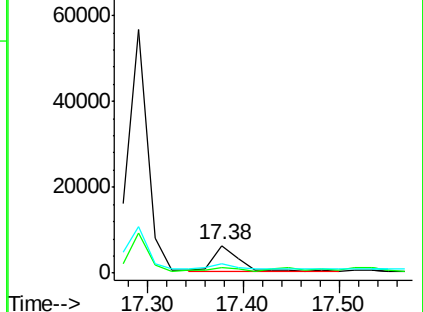
176 32.7 14.7 22.1#

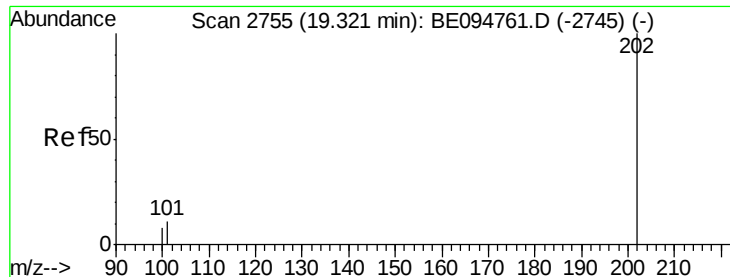


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 3.84 ng/ul

RT: 19.31 min Scan# 2754

Delta R.T. -0.01 min

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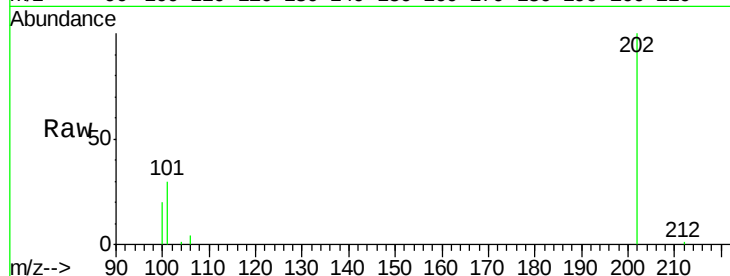
Tot Ion:202 Resp: 122068

Ion Ratio Lower Upper

202 100

101 29.8 0.0 30.3

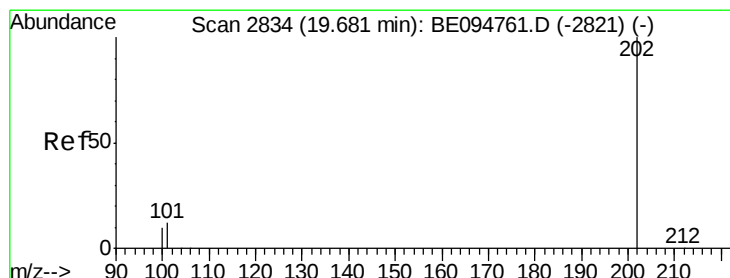
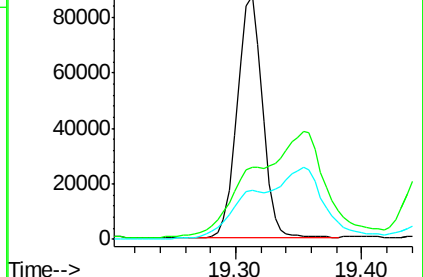
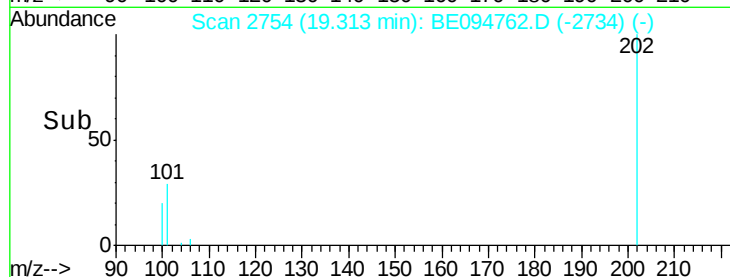
100 19.9 0.0 39.5



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): BE



#17

Pyrene

Concen: 3.85 ng/ul

RT: 19.67 min Scan# 2833

Delta R.T. -0.01 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

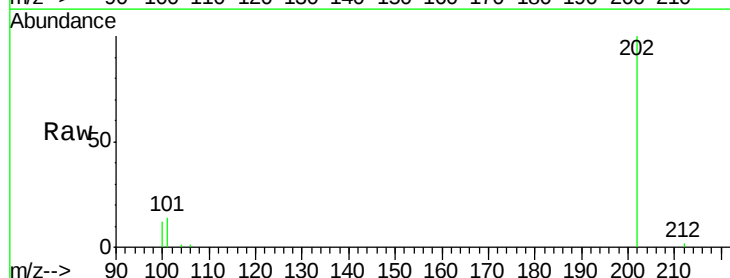
Tgt Ion:202 Resp: 119046

Ion Ratio Lower Upper

202 100

101 14.4 18.2 27.4#

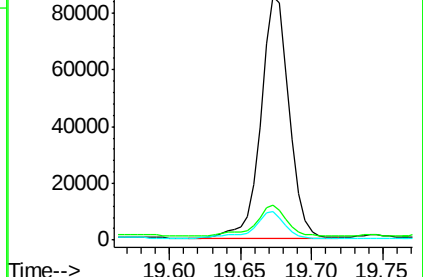
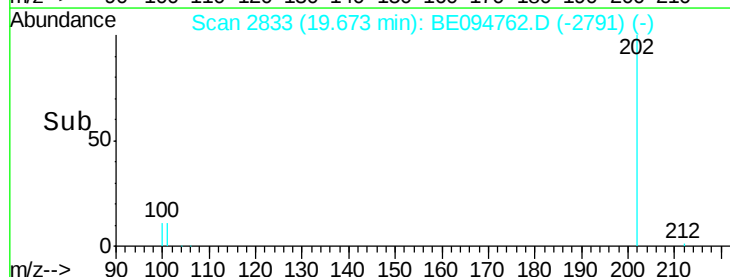
100 11.9 15.6 23.4#

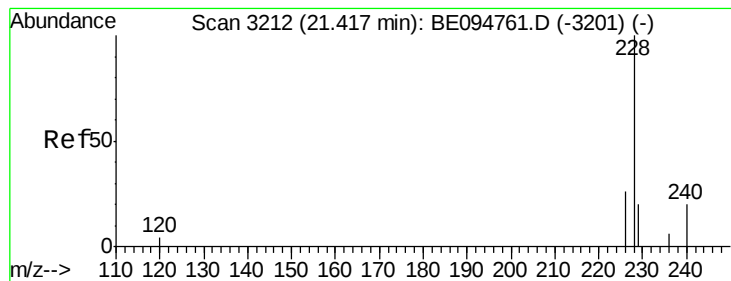


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 2.69 ng/ul

RT: 21.41 min Scan# 3212

Delta R.T. -0.00 min

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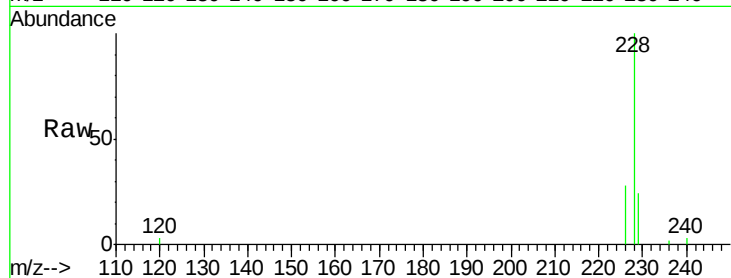
Tot Ion:228 Resp: 76941

Ion Ratio Lower Upper

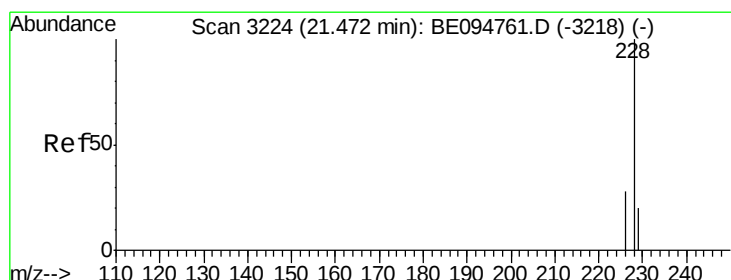
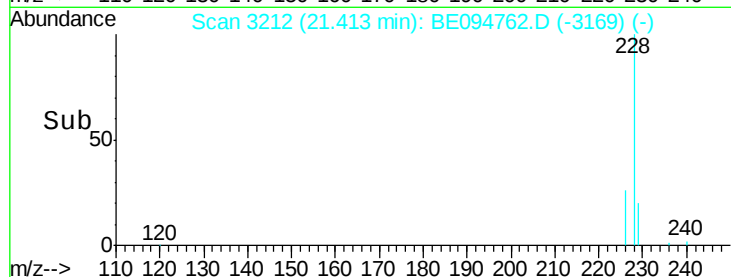
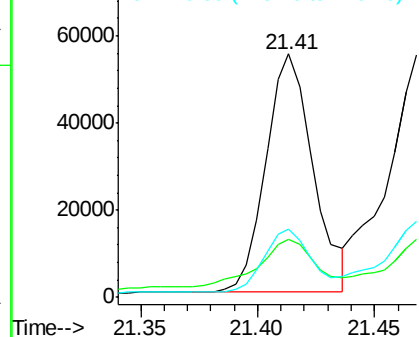
228 100

229 24.0 22.8 34.2

226 27.9 17.0 25.6#



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



#19

Chrysene

Concen: 2.98 ng/ul

RT: 21.47 min Scan# 3224

Delta R.T. -0.00 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

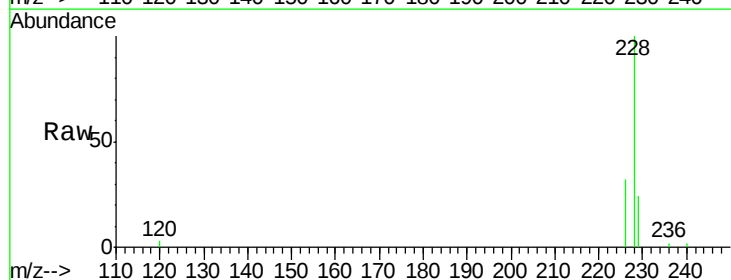
Tgt Ion:228 Resp: 88079

Ion Ratio Lower Upper

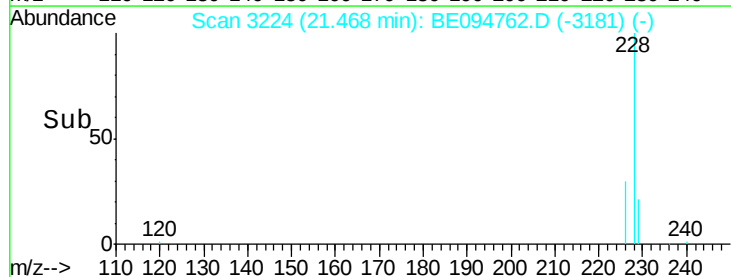
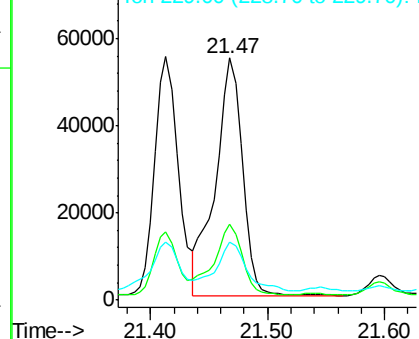
228 100

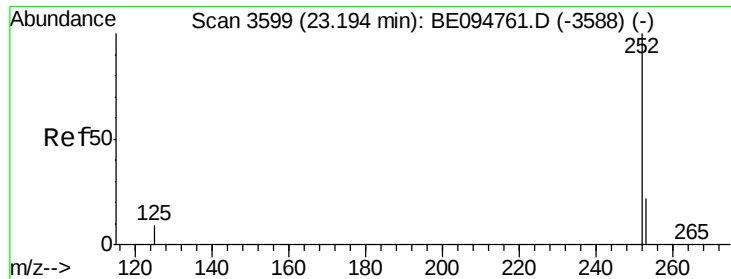
226 31.6 23.4 35.0

229 23.8 17.7 26.5



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

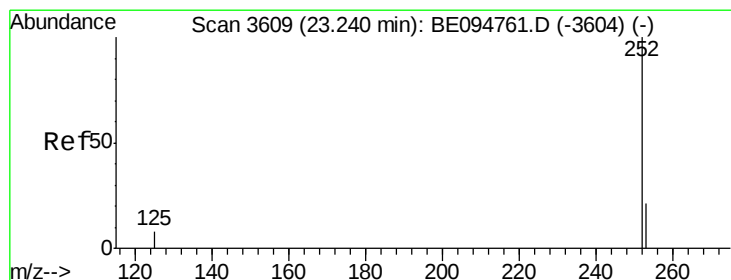
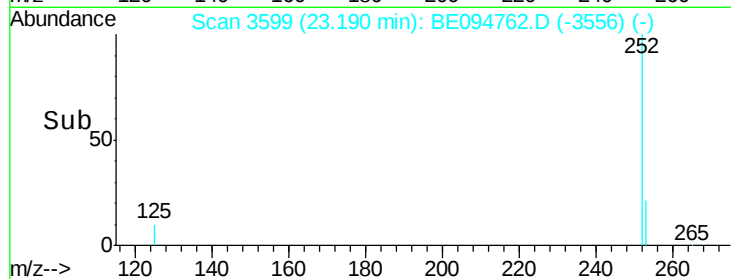
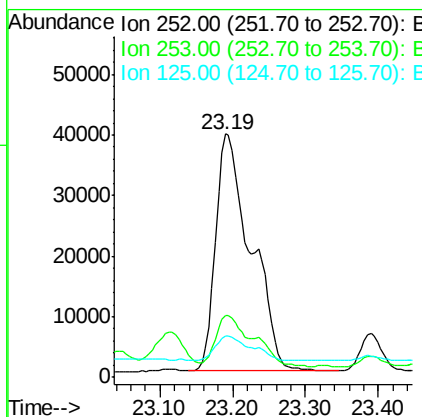
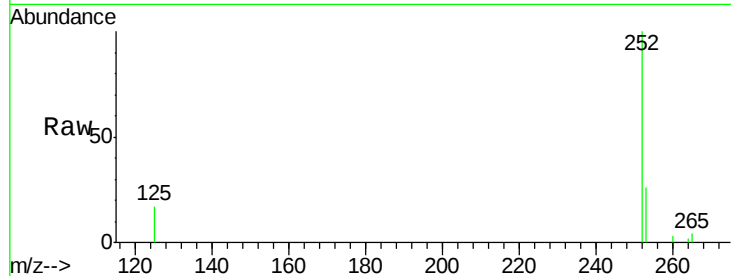




#21  
Benzo(b)fluoranthene  
Concen: 4.56 ng/ul  
RT: 23.19 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: BE094762.D  
Acq: 6 Nov 2017 20:26

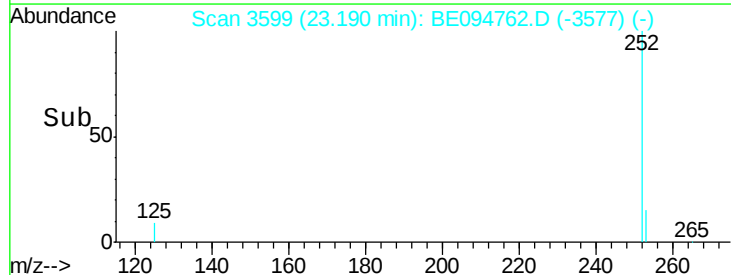
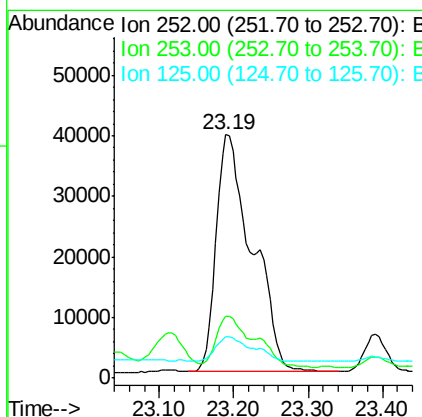
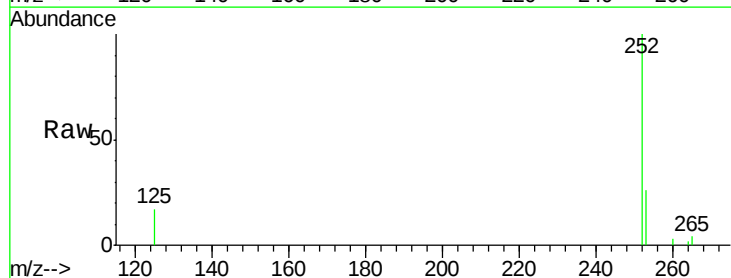
Instrument :  
BNA\_E  
ClientSampleId :  
B-52(0-1)-102317

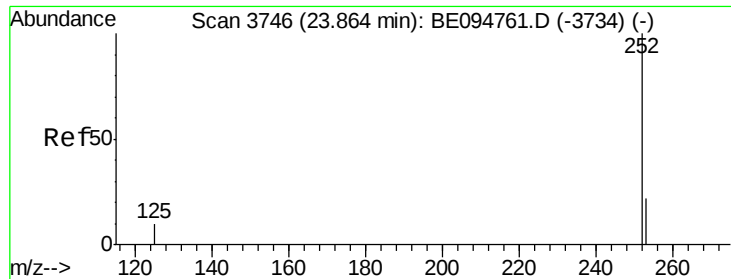
Tot Ion:252 Resp: 131343  
Ion Ratio Lower Upper  
252 100  
253 25.6 0.0 64.2  
125 16.9 0.0 35.0



#22  
Benzo(k)fluoranthene  
Concen: 4.25 ng/ul  
RT: 23.19 min Scan# 3599  
Delta R.T. -0.05 min  
Lab File: BE094762.D  
Acq: 6 Nov 2017 20:26

Tgt Ion:252 Resp: 131328  
Ion Ratio Lower Upper  
252 100  
253 25.6 24.5 36.7  
125 16.9 13.7 20.5





#23

Benzo(a)pyrene

Concen: 2.24 ng/ul

RT: 23.86 min Scan# 3746

Delta R.T. -0.00 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

Instrument :

BNA\_E

ClientSampleId :

B-52(0-1)-102317

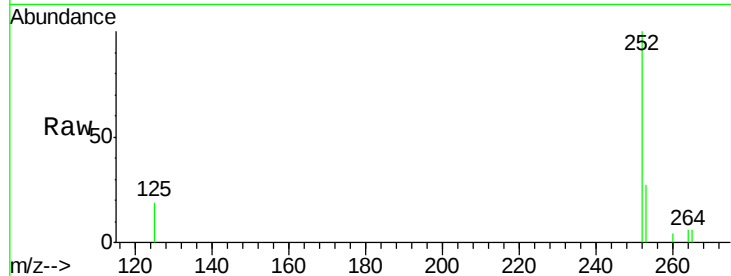
Tot Ion:252 Resp: 64521

Ion Ratio Lower Upper

252 100

253 27.0 28.5 42.7#

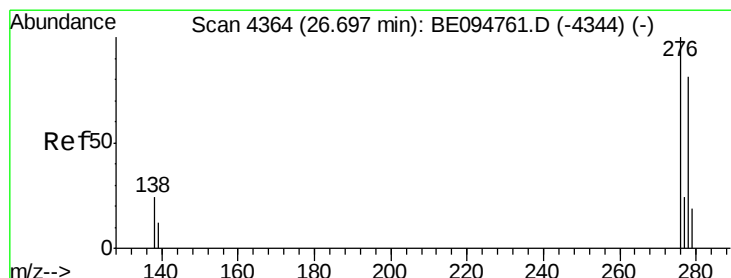
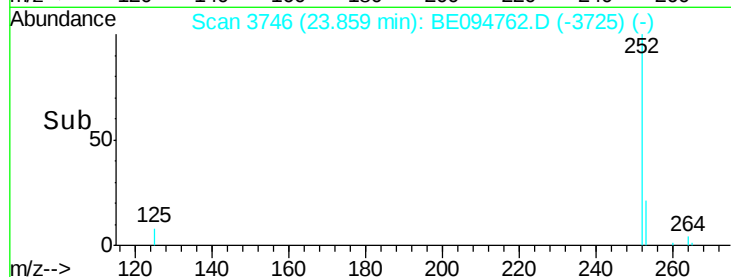
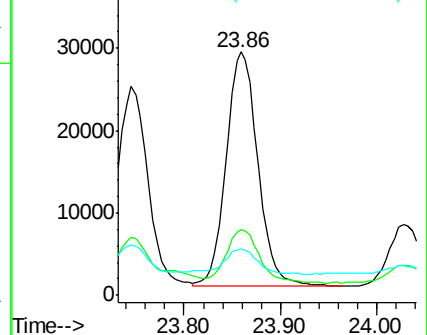
125 19.1 18.1 27.1



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: 1.29 ng/ul

RT: 26.69 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

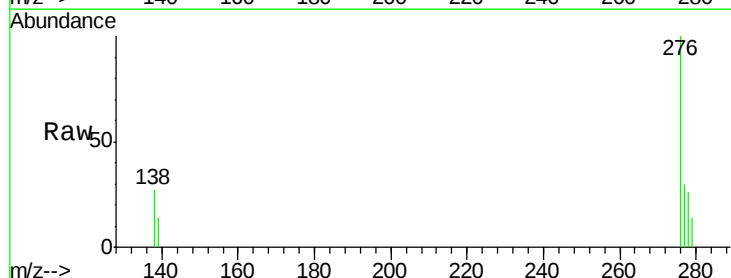
Tgt Ion:276 Resp: 38511

Ion Ratio Lower Upper

276 100

138 19.4 28.0 42.0#

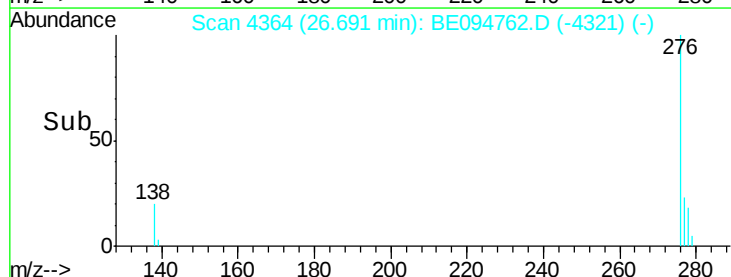
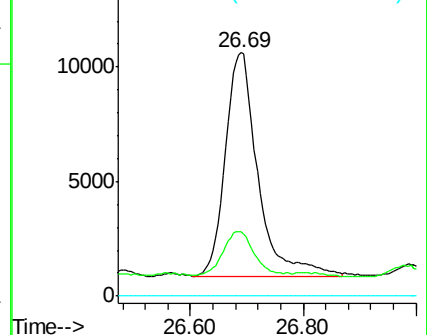
227 0.0 8.0 12.0#

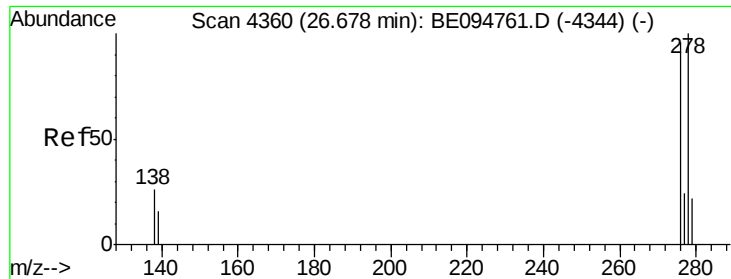


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.38 ng/ul

RT: 26.68 min Scan# 4361

Delta R.T. -0.00 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

Instrument :

BNA\_E

ClientSampleId :

B-52(0-1)-102317

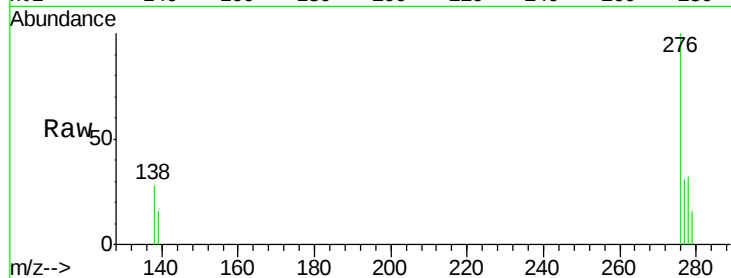
Tot Ion:278 Resp: 9421

Ion Ratio Lower Upper

278 100

139 50.1 17.4 26.0#

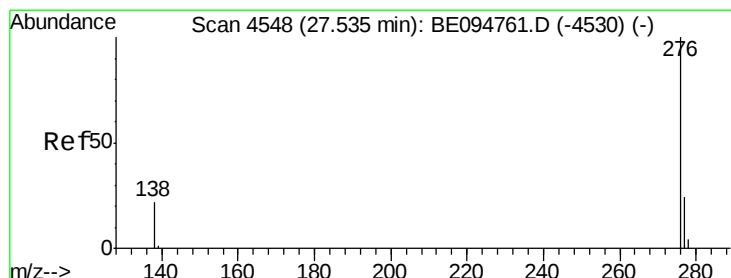
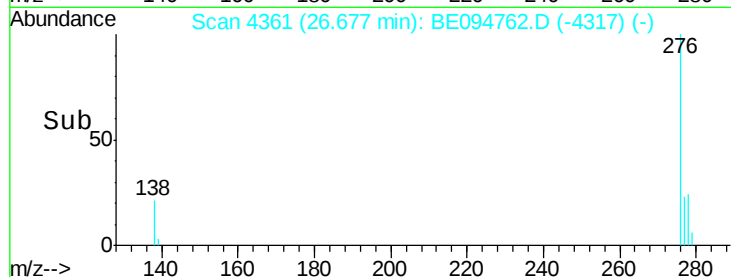
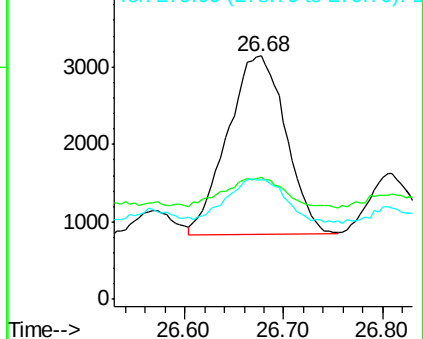
279 49.3 25.9 38.9#



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: 1.35 ng/ul

RT: 27.54 min Scan# 4550

Delta R.T. 0.00 min

Lab File: BE094762.D

Acq: 6 Nov 2017 20:26

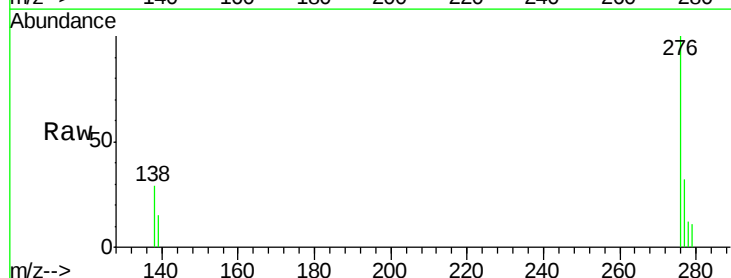
Tgt Ion:276 Resp: 32364

Ion Ratio Lower Upper

276 100

138 29.5 21.8 32.8

277 32.2 20.5 30.7#



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

