

Data File : BE093354.D  
Acq On : 24 Jun 2017 10:20  
Operator : SJ/JU  
Sample : I3625-01DL 5X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
F5A82DL

Quant Time: Jun 26 01:13:34 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 26 01:13:30 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 1328     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.52 | 136  | 6835     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.36 | 164  | 4034     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.10 | 188  | 10257    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.26 | 240  | 11283    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.66 | 264  | 10211    | 0.40 | ng/ul | 0.00     |

|                             |       |     |     |      |       |      |
|-----------------------------|-------|-----|-----|------|-------|------|
| System Monitoring Compounds |       |     |     |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152 | 342 | 0.03 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.12 | 212 | 957 | 0.03 | ng/ul | 0.00 |

|                            |       |     |       |        |        |    |
|----------------------------|-------|-----|-------|--------|--------|----|
| Target Compounds           |       |     |       | Qvalue |        |    |
| 3) Naphthalene             | 10.57 | 128 | 608   | 0.04   | ng/ul# | 80 |
| 5) 2-Methylnaphthalene     | 12.18 | 142 | 145   | 0.01   | ng/ul  | 98 |
| 7) Acenaphthylene          | 14.09 | 152 | 5437  | 0.31   | ng/ul  | 97 |
| 9) Fluorene                | 15.42 | 166 | 202   | 0.01   | ng/ul# | 83 |
| 12) Phenanthrene           | 17.13 | 178 | 2796  | 0.10   | ng/ul# | 90 |
| 13) Anthracene             | 17.22 | 178 | 5114  | 0.21   | ng/ul# | 89 |
| 15) Fluoranthene           | 19.15 | 202 | 16138 | 0.47   | ng/ul  | 84 |
| 17) Pyrene                 | 19.51 | 202 | 29148 | 0.88   | ng/ul# | 84 |
| 18) Benzo(a)anthracene     | 21.24 | 228 | 19257 | 0.64   | ng/ul# | 85 |
| 19) Chrysene               | 21.29 | 228 | 26875 | 0.86   | ng/ul  | 97 |
| 21) Benzo(b)fluoranthene   | 22.93 | 252 | 86275 | 2.78   | ng/ul  | 87 |
| 22) Benzo(k)fluoranthene   | 23.11 | 252 | 8101  | 0.25   | ng/ul  | 94 |
| 23) Benzo(a)pyrene         | 23.55 | 252 | 31370 | 1.07   | ng/ul# | 82 |
| 24) Indeno(1,2,3-cd)pyrene | 26.17 | 276 | 27121 | 0.80   | ng/ul# | 86 |
| 25) Dibenzo(a,h)anthracene | 26.19 | 278 | 6924  | 0.24   | ng/ul# | 90 |
| 26) Benzo(g,h,i)perylene   | 26.95 | 276 | 19910 | 0.68   | ng/ul  | 96 |

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

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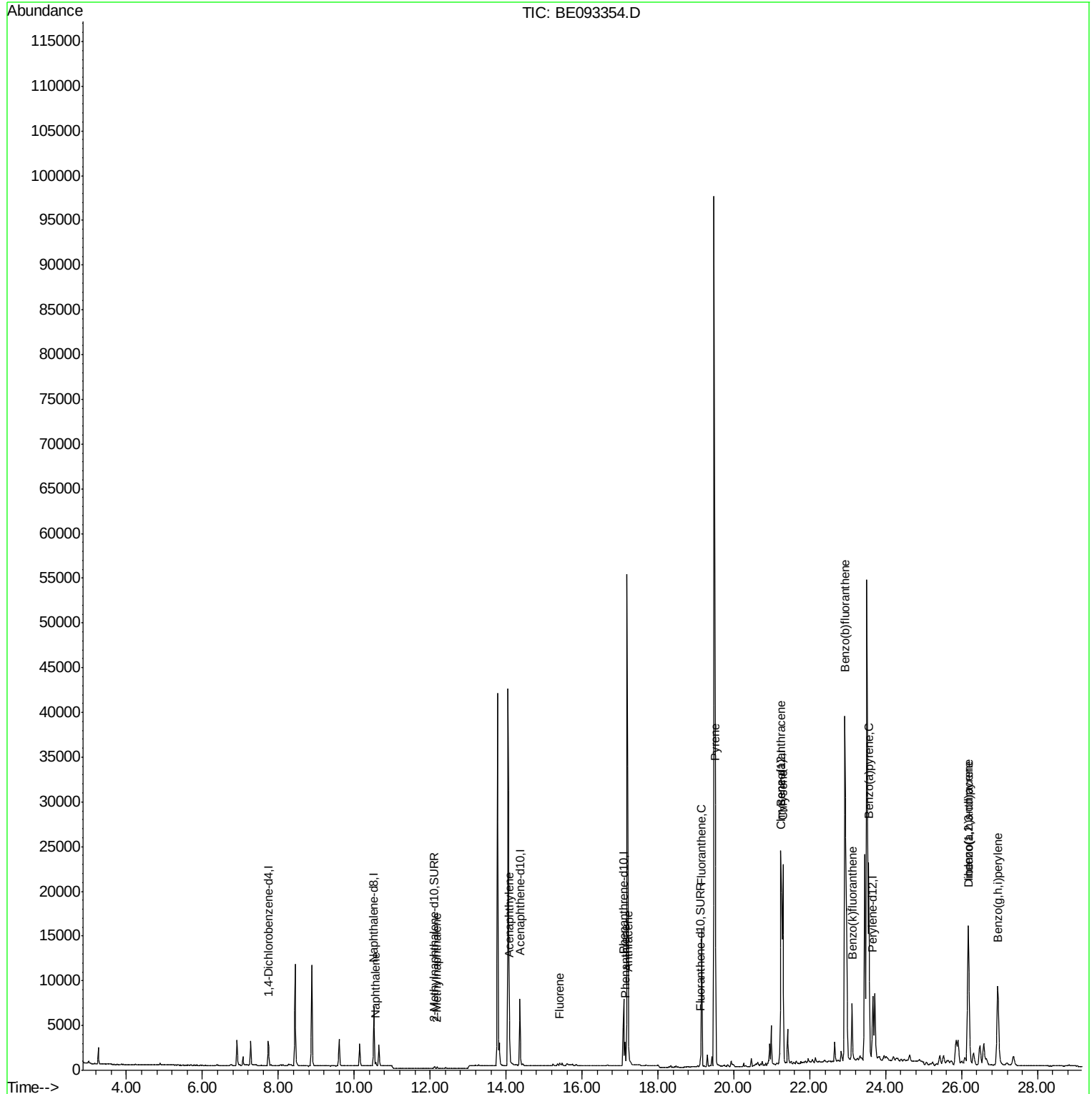
Quant Time: Jun 26 01:13:34 2017

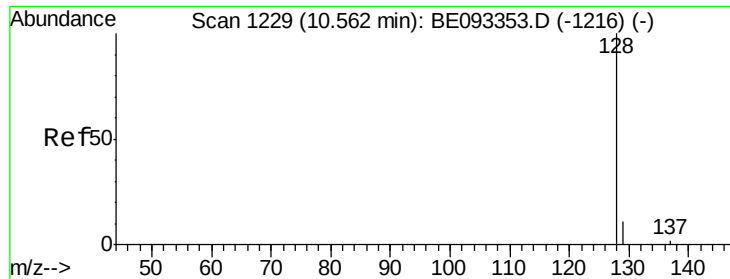
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Jun 26 01:13:30 2017

Response via : Initial Calibration

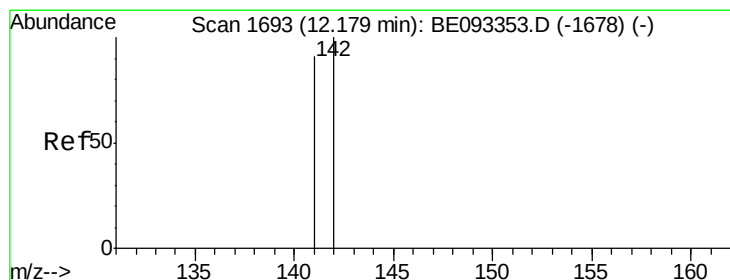
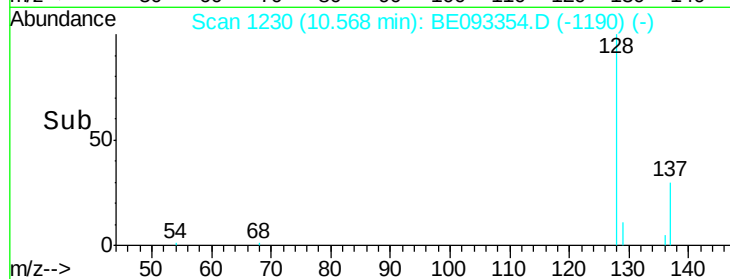
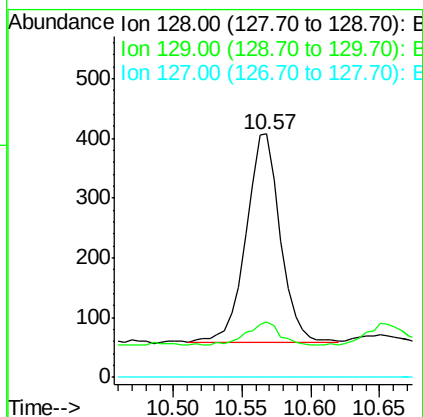
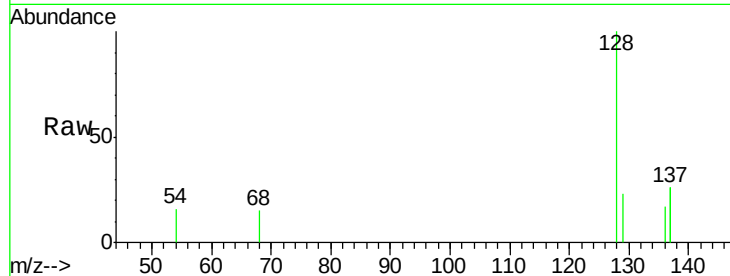




#3  
Naphthalene  
Concen: 0.04 ng/ul  
RT: 10.57 min Scan# 1230  
Delta R.T. 0.01 min  
Lab File: BE093354.D  
Acq: 24 Jun 2017 10:20

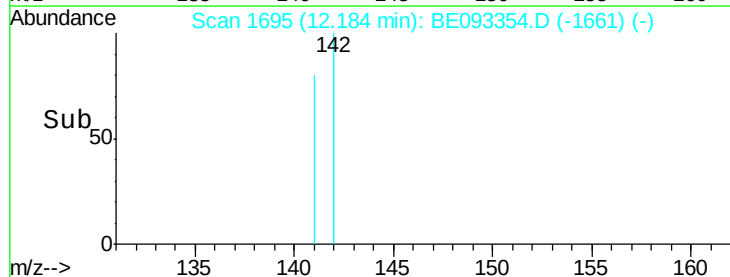
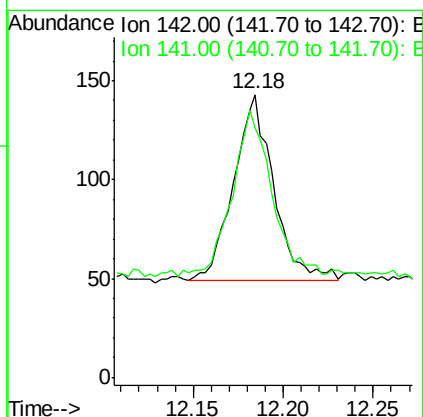
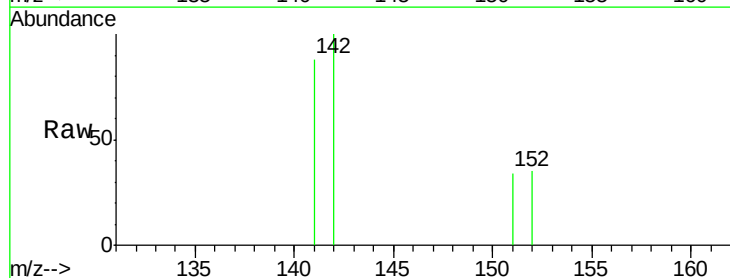
Instrument :  
BNA\_E  
ClientSampleId :  
F5A82DL

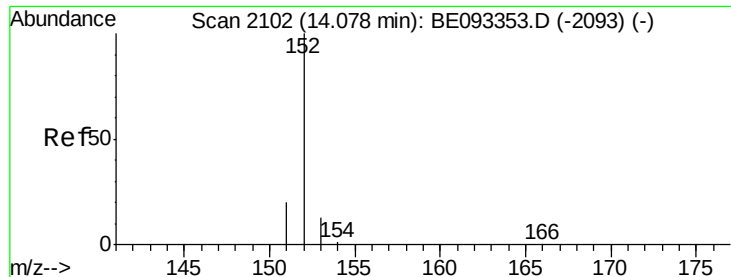
Tgt Ion:128 Resp: 608  
Ion Ratio Lower Upper  
128 100  
129 22.8 11.3 16.9#  
127 0.0 4.0 6.0#



#5  
2-Methylnaphthalene  
Concen: 0.01 ng/ul  
RT: 12.18 min Scan# 1695  
Delta R.T. 0.01 min  
Lab File: BE093354.D  
Acq: 24 Jun 2017 10:20

Tgt Ion:142 Resp: 145  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.6 108.8





#7

Acenaphthylene

Concen: 0.31 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

BNA\_E

ClientSampleId :

F5A82DL

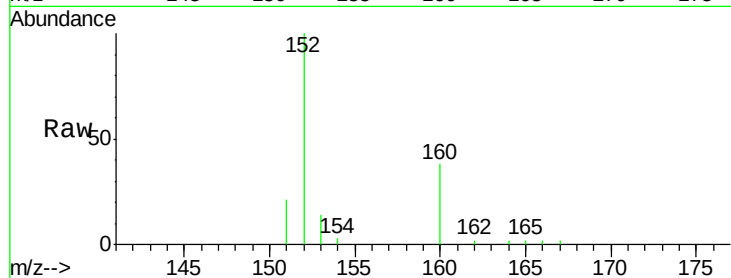
Tgt Ion:152 Resp: 5437

Ion Ratio Lower Upper

152 100

151 20.5 17.1 25.7

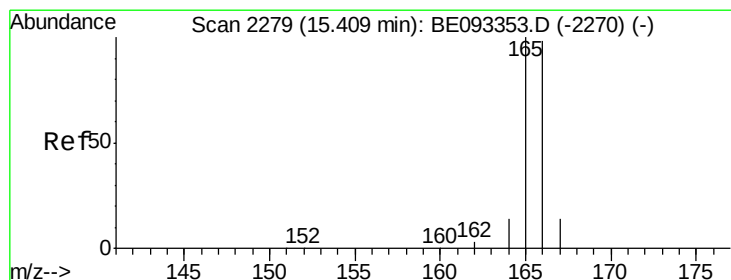
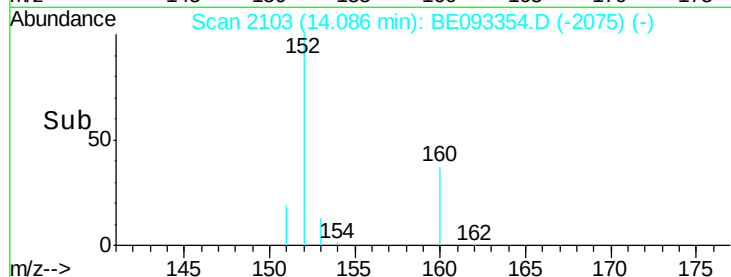
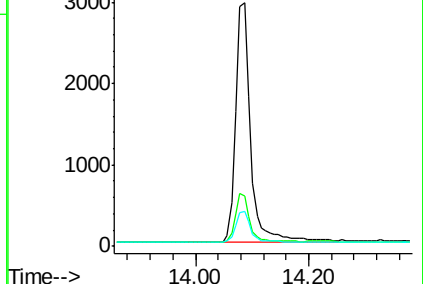
153 14.1 12.8 19.2



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



#9

Fluorene

Concen: 0.01 ng/ul

RT: 15.42 min Scan# 2280

Delta R.T. 0.01 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

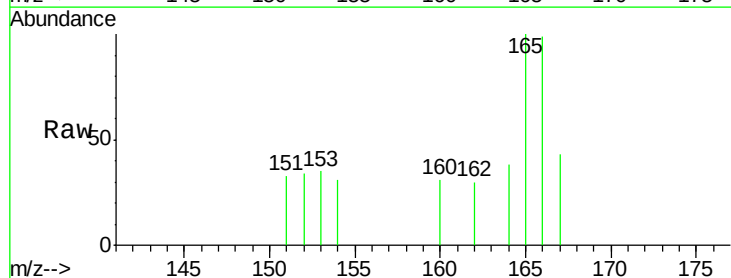
Tgt Ion:166 Resp: 202

Ion Ratio Lower Upper

166 100

165 100.6 73.4 110.2

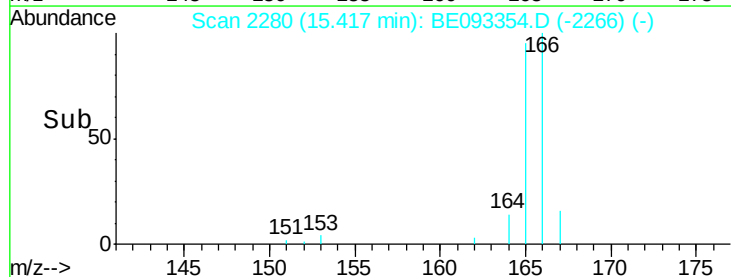
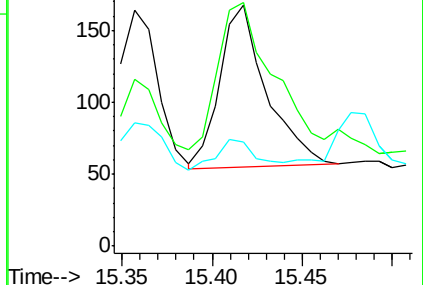
167 42.9 14.6 22.0#

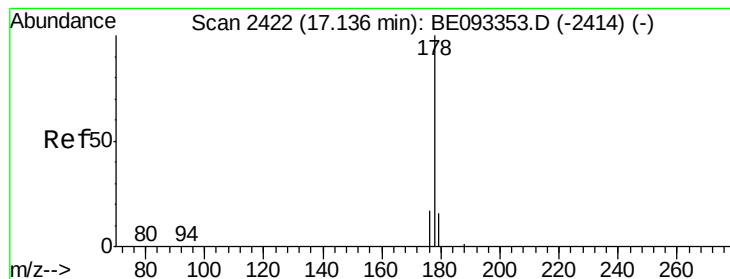


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#12

Phenanthrene

Concen: 0.10 ng/ul

RT: 17.13 min Scan# 2422

Delta R.T. -0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

BNA\_E

ClientSampleId :

F5A82DL

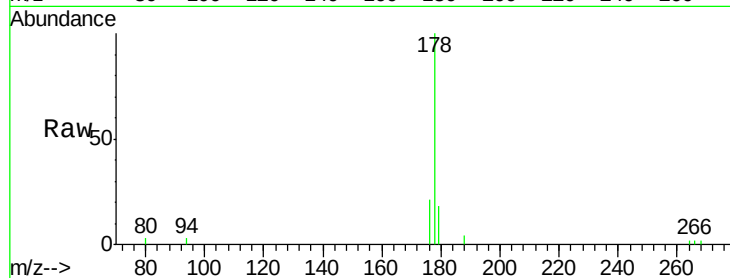
Tgt Ion:178 Resp: 2796

Ion Ratio Lower Upper

178 100

179 18.1 18.4 27.6#

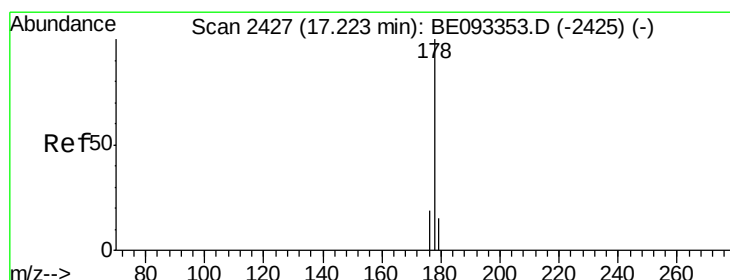
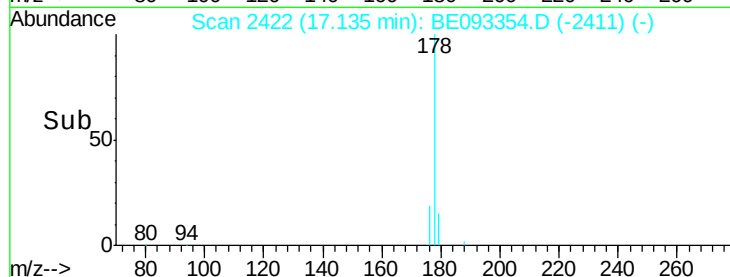
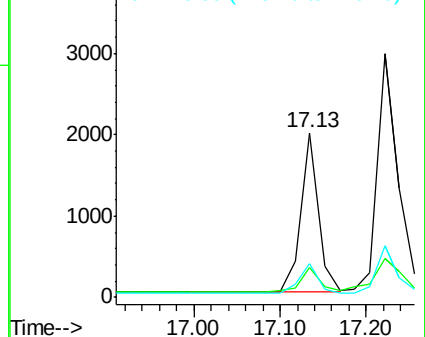
176 20.8 13.6 20.4#



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: 0.21 ng/ul

RT: 17.22 min Scan# 2427

Delta R.T. -0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

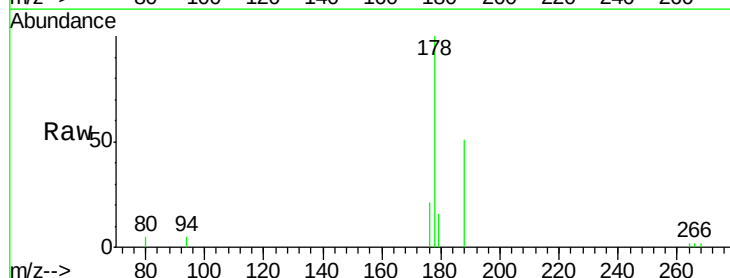
Tgt Ion:178 Resp: 5114

Ion Ratio Lower Upper

178 100

179 15.8 18.1 27.1#

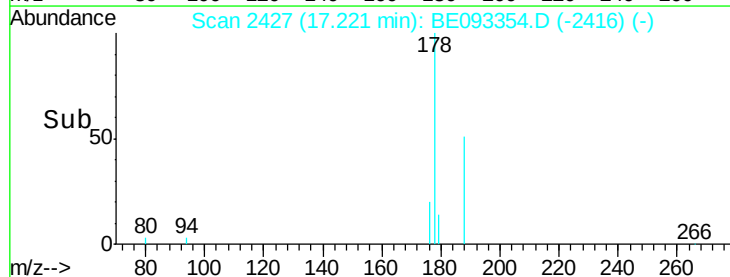
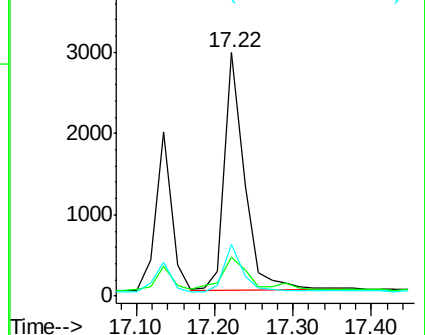
176 21.1 14.7 22.1

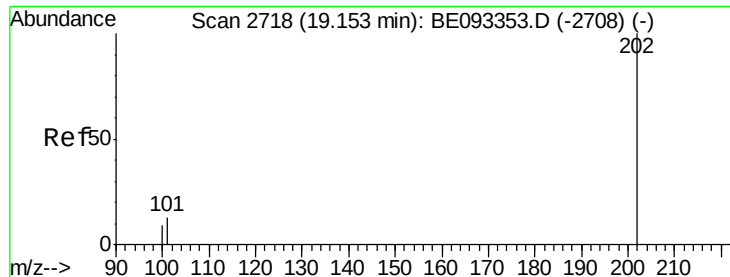


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 0.47 ng/ul

RT: 19.15 min Scan# 2719

Delta R.T. 0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

BNA\_E

ClientSampleId :

F5A82DL

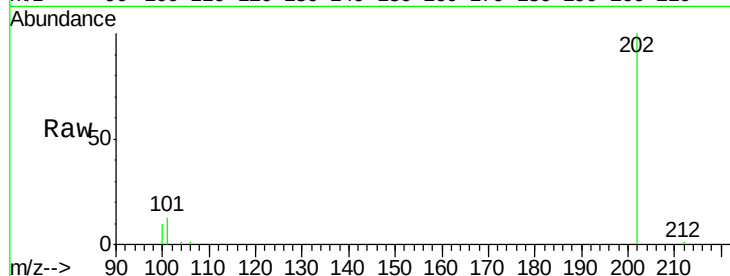
Tgt Ion:202 Resp: 16138

Ion Ratio Lower Upper

202 100

101 13.5 0.0 30.3

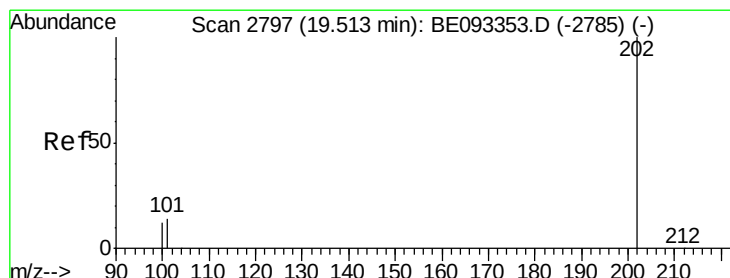
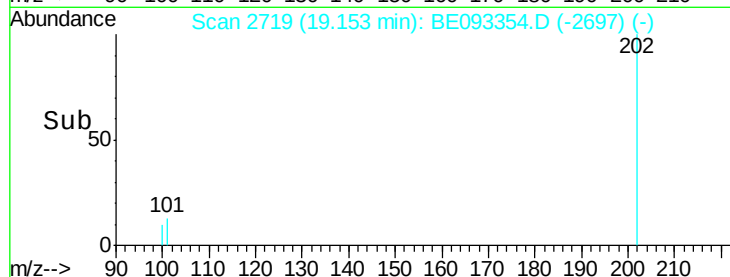
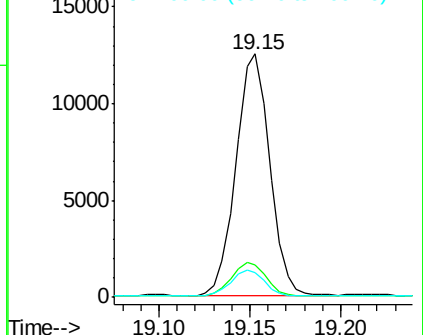
100 10.4 0.0 39.5



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: 0.88 ng/ul

RT: 19.51 min Scan# 2798

Delta R.T. 0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

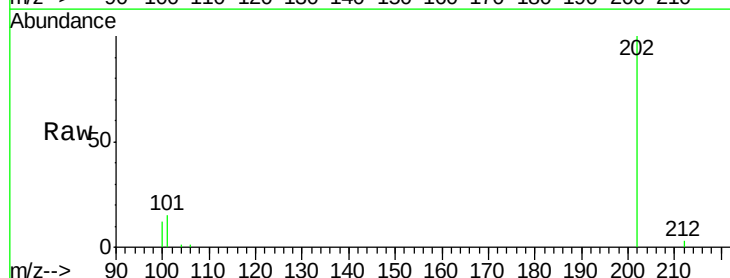
Tgt Ion:202 Resp: 29148

Ion Ratio Lower Upper

202 100

101 15.2 18.2 27.4#

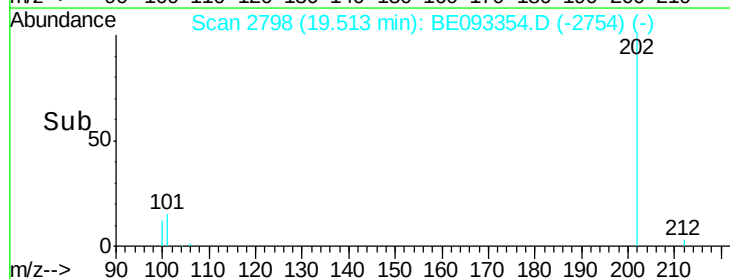
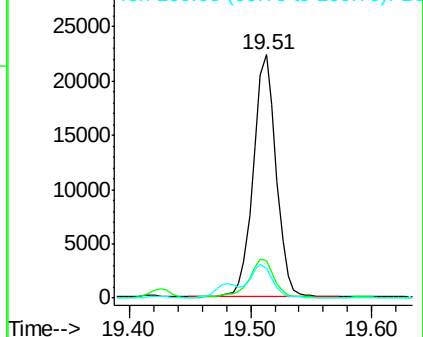
100 12.2 15.6 23.4#

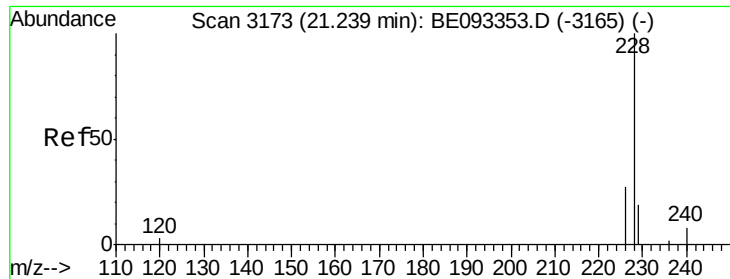


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE





#18

Benzo(a)anthracene

Concen: 0.64 ng/ul

RT: 21.24 min Scan# 3174

Delta R.T. 0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

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ClientSampleId :

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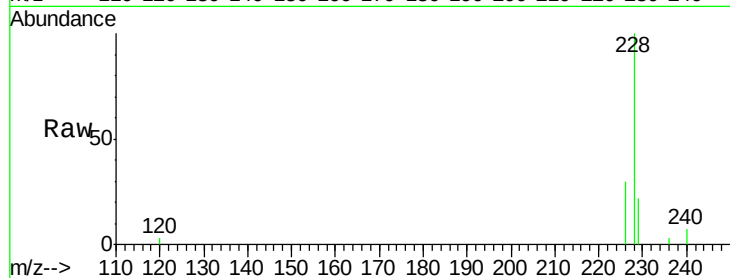
Tgt Ion:228 Resp: 19257

Ion Ratio Lower Upper

228 100

229 21.7 22.8 34.2#

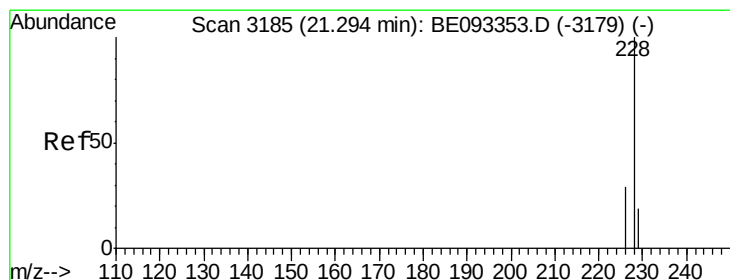
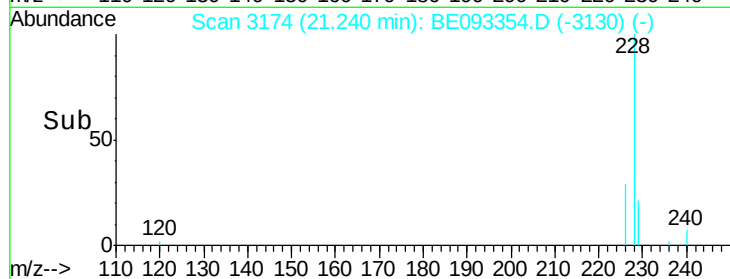
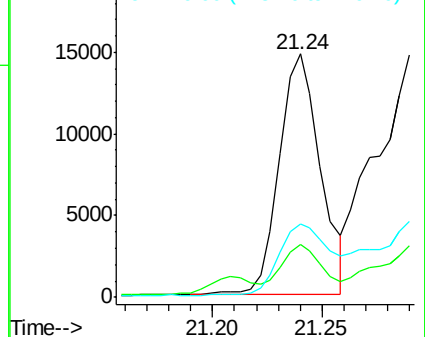
226 30.1 17.0 25.6#



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: 0.86 ng/ul

RT: 21.29 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

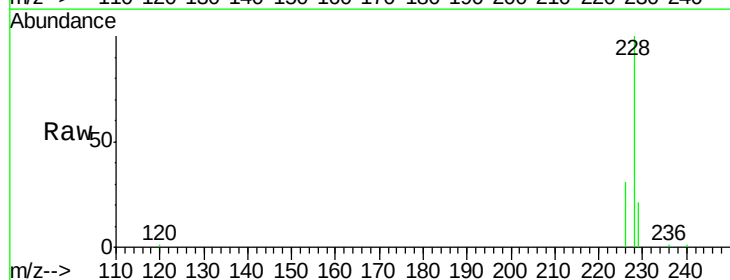
Tgt Ion:228 Resp: 26875

Ion Ratio Lower Upper

228 100

226 31.2 23.4 35.0

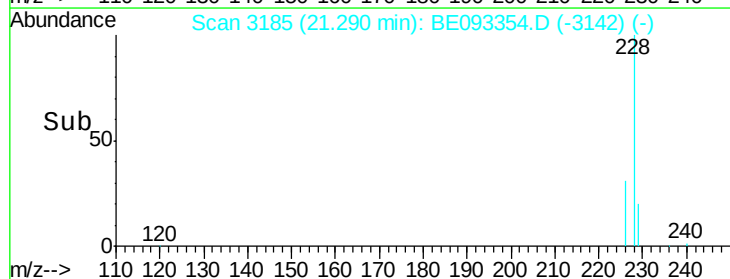
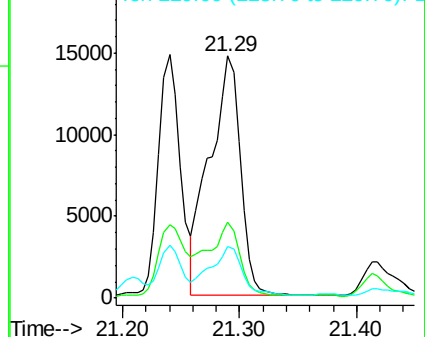
229 21.4 17.7 26.5

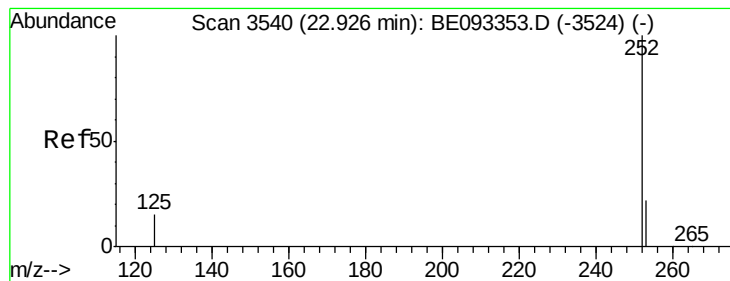


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 2.78 ng/ul

RT: 22.93 min Scan# 3541

Delta R.T. -0.00 min

Lab File: BE093354.D

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Instrument :

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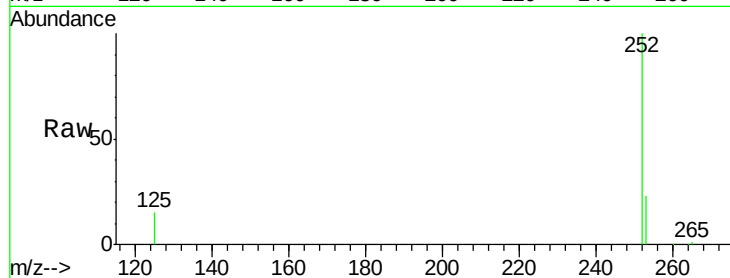
Tgt Ion:252 Resp: 86275

Ion Ratio Lower Upper

252 100

253 23.0 0.0 64.2

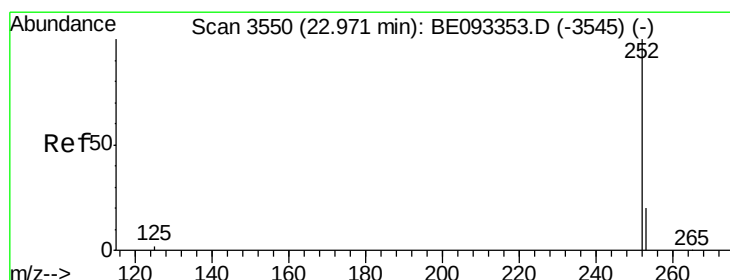
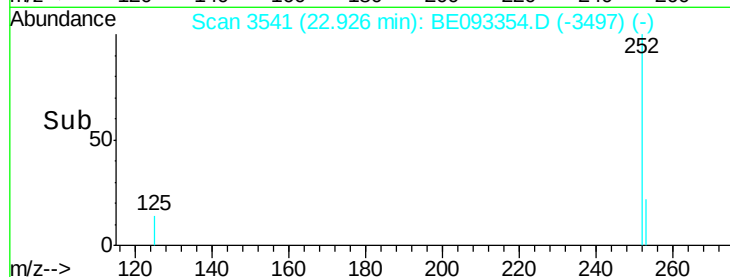
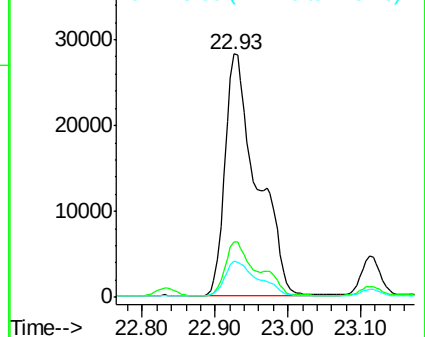
125 14.8 0.0 35.0



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



#22

Benzo(k)fluoranthene

Concen: 0.25 ng/ul

RT: 23.11 min Scan# 3582

Delta R.T. 0.14 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

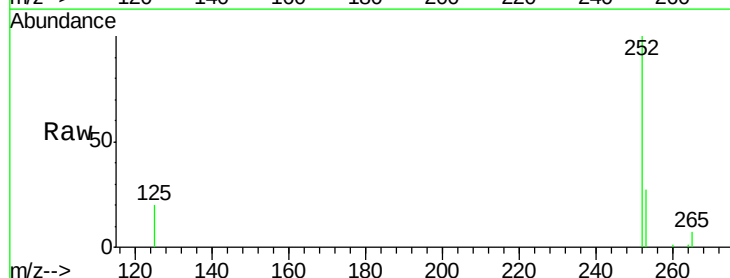
Tgt Ion:252 Resp: 8101

Ion Ratio Lower Upper

252 100

253 27.1 24.5 36.7

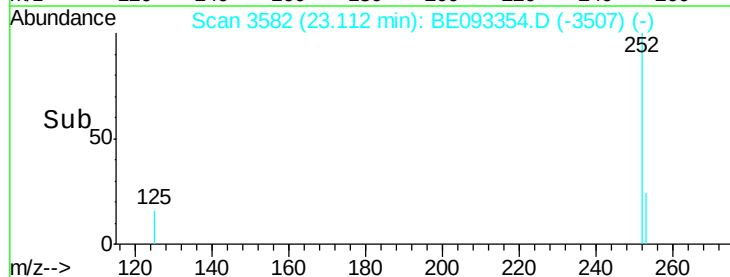
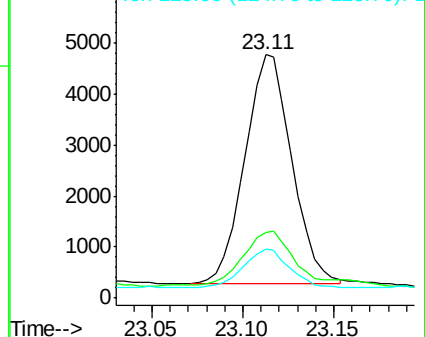
125 19.9 13.7 20.5



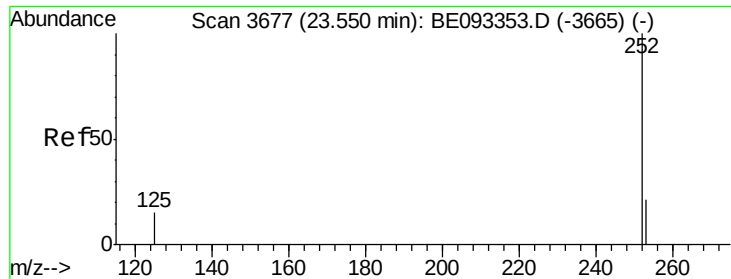
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#23

Benzo(a)pyrene

Concen: 1.07 ng/ul

RT: 23.55 min Scan# 3679

Delta R.T. 0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

BNA\_E

ClientSampleId :

F5A82DL

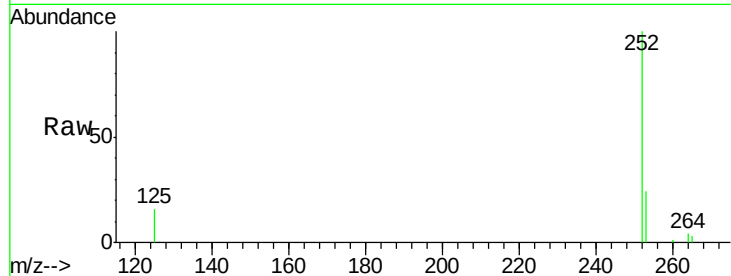
Tgt Ion:252 Resp: 31370

Ion Ratio Lower Upper

252 100

253 23.7 28.5 42.7#

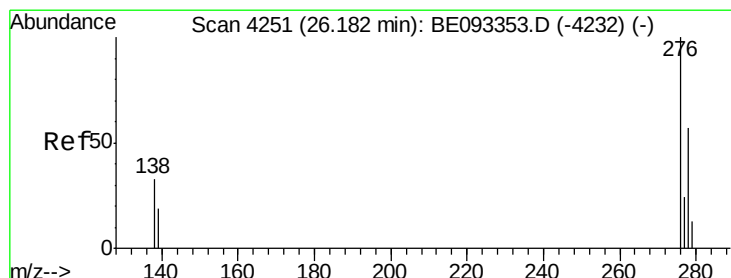
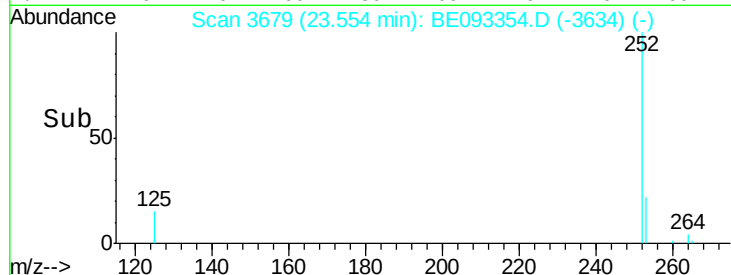
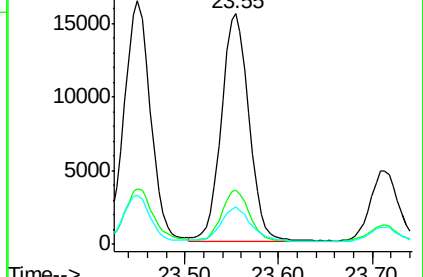
125 16.1 18.1 27.1#



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: 0.80 ng/ul

RT: 26.17 min Scan# 4250

Delta R.T. -0.01 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

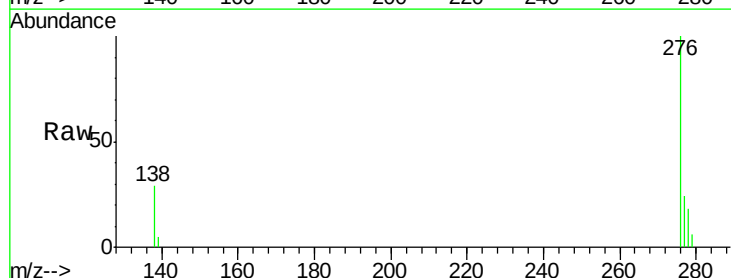
Tgt Ion:276 Resp: 27121

Ion Ratio Lower Upper

276 100

138 29.4 28.0 42.0

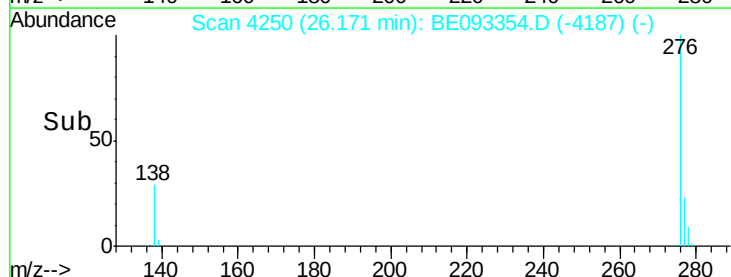
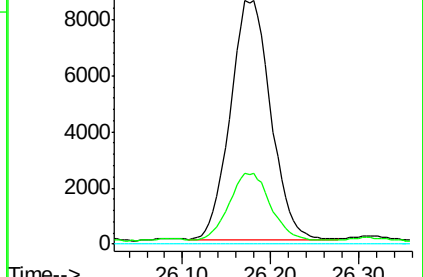
227 0.0 8.0 12.0#

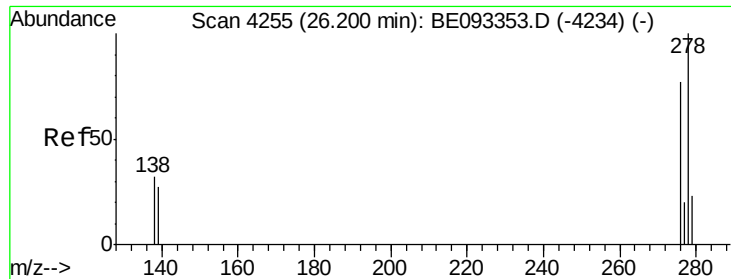


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.24 ng/ul

RT: 26.19 min Scan# 4255

Delta R.T. -0.01 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

Instrument :

BNA\_E

ClientSampleId :

F5A82DL

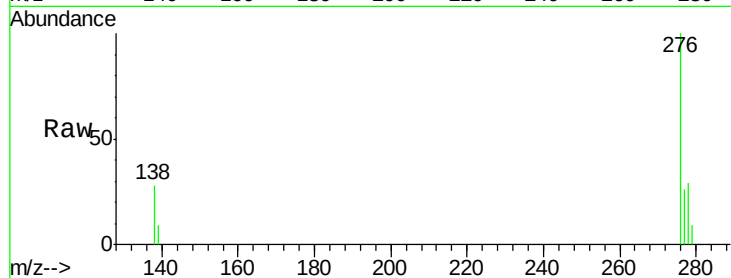
Tgt Ion: 278 Resp: 6924

Ion Ratio Lower Upper

278 100

139 29.6 17.4 26.0#

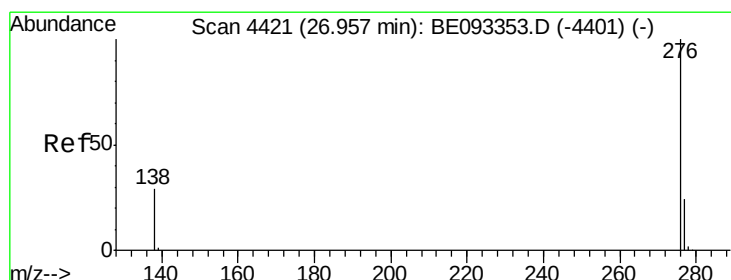
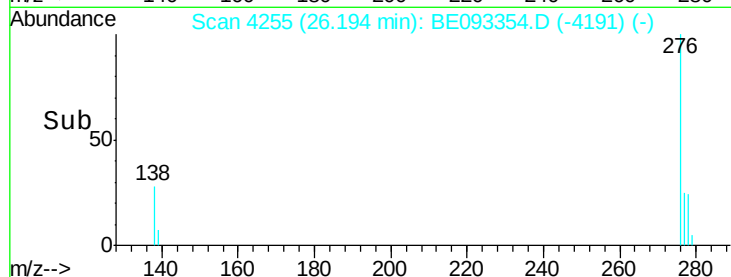
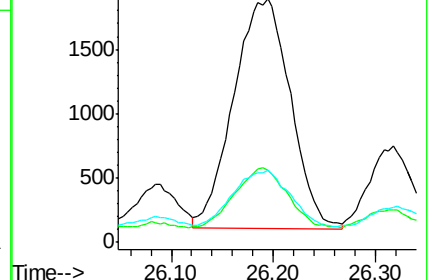
279 29.4 25.9 38.9



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: 0.68 ng/ul

RT: 26.95 min Scan# 4422

Delta R.T. -0.00 min

Lab File: BE093354.D

Acq: 24 Jun 2017 10:20

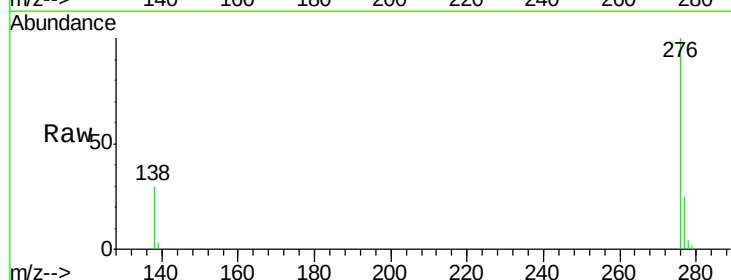
Tgt Ion: 276 Resp: 19910

Ion Ratio Lower Upper

276 100

138 30.3 21.8 32.8

277 24.7 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

