

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE071415\  
 Data File : BE090098.D  
 Acq On : 14 Jul 2015 14:54  
 Operator : TP/IZ  
 Sample : SST0.101  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST0.101

Quant Time: Jul 15 00:45:32 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE071415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 15 00:44:52 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 1444     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.37 | 136  | 6492     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.22 | 164  | 3685     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.95 | 188  | 8546     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.12 | 240  | 7829     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.44 | 264  | 5826     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 1042     | 0.10 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.98 | 212  | 2390     | 0.10 | ng/ul | 0.00     |

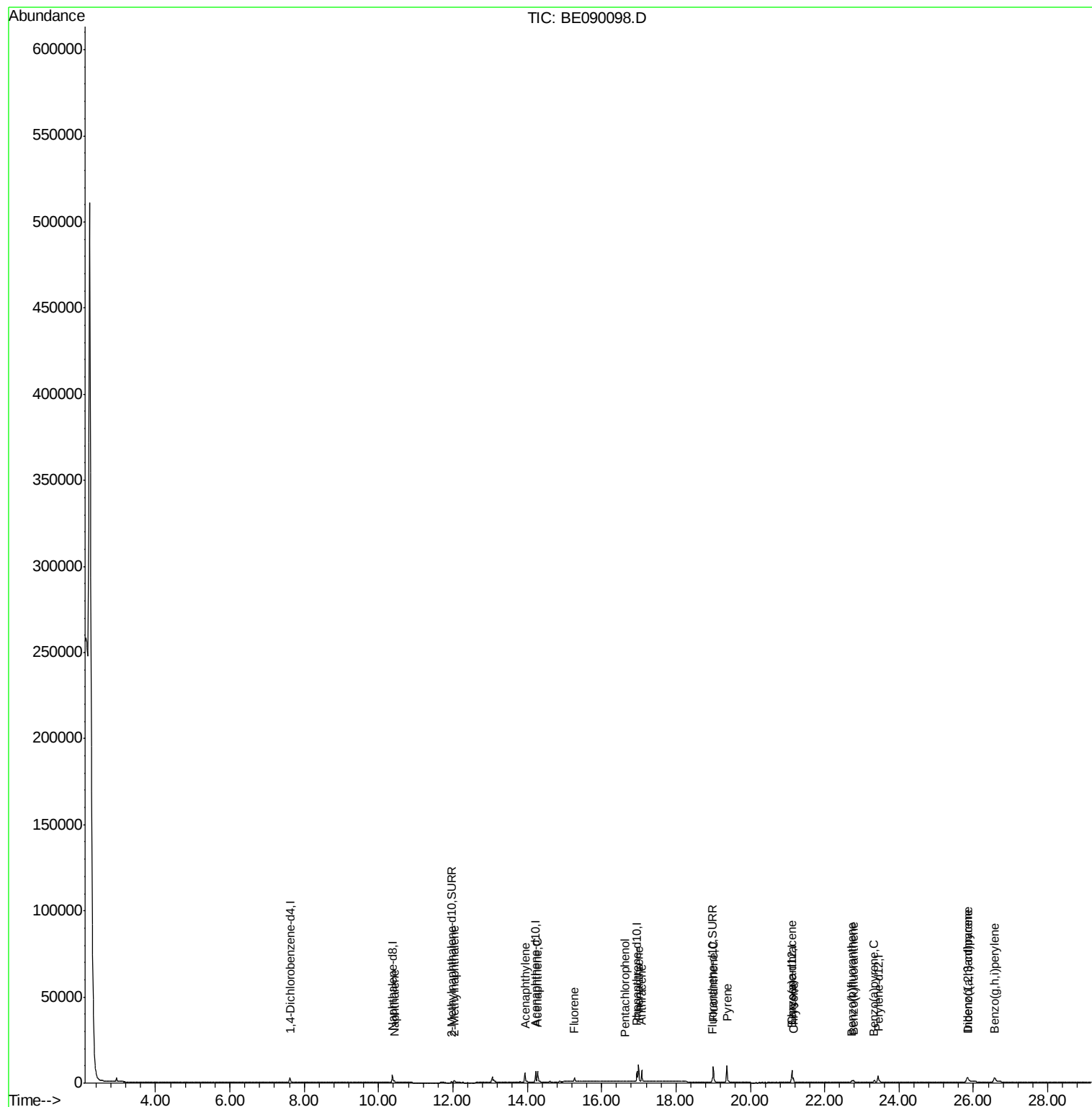
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.42 | 128  | 1838     | 0.10 | ng/ul# | 93     |
| 5) 2-Methylnaphthalene     | 12.03 | 142  | 1186     | 0.09 | ng/ul  | 99     |
| 7) Acenaphthylene          | 13.93 | 152  | 8029     | 0.24 | ng/ul  | 95     |
| 8) Acenaphthene            | 14.28 | 153  | 5662     | 0.25 | ng/ul  | 99     |
| 9) Fluorene                | 15.27 | 166  | 1670     | 0.10 | ng/ul# | 97     |
| 11) Pentachlorophenol      | 16.62 | 266  | 65       | 0.03 | ng/ul# | 84     |
| 12) Phenanthrene           | 16.99 | 178  | 10849    | 0.24 | ng/ul  | 96     |
| 13) Anthracene             | 17.09 | 178  | 10142    | 0.24 | ng/ul  | 93     |
| 15) Fluoranthene           | 19.00 | 202  | 11293    | 0.23 | ng/ul  | 95     |
| 17) Pyrene                 | 19.37 | 202  | 11744    | 0.23 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.11 | 228  | 2184     | 0.08 | ng/ul  | 96     |
| 19) Chrysene               | 21.16 | 228  | 2840     | 0.10 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 22.73 | 252  | 1665     | 0.07 | ng/ul  | 88     |
| 22) Benzo(k)fluoranthene   | 22.78 | 252  | 2477     | 0.11 | ng/ul# | 88     |
| 23) Benzo(a)pyrene         | 23.33 | 252  | 1747     | 0.08 | ng/ul# | 85     |
| 24) Indeno(1,2,3-cd)pyrene | 25.84 | 276  | 7902     | 0.23 | ng/ul  | 97     |
| 25) Dibenzo(a,h)anthracene | 25.87 | 278  | 1485     | 0.08 | ng/ul  | 91     |
| 26) Benzo(g,h,i)perylene   | 26.57 | 276  | 7227     | 0.24 | ng/ul# | 87     |

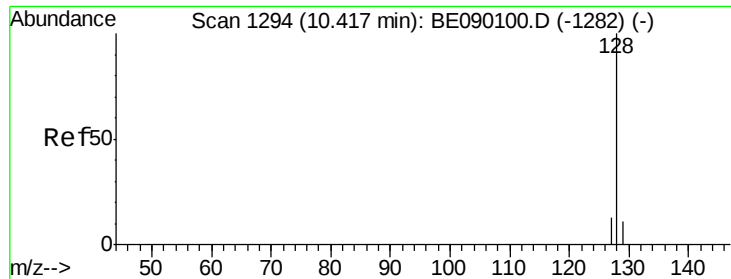
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 15 00:44:52 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.10 ng/ul

RT: 10.42 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

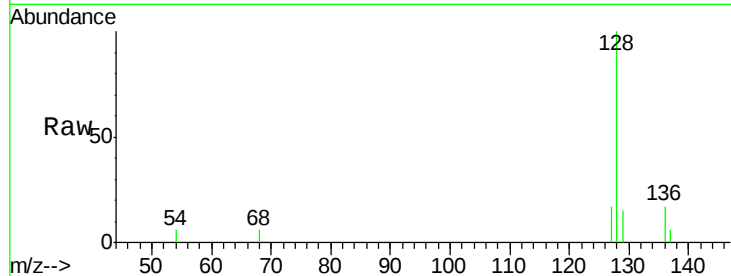
Tgt Ion:128 Resp: 1838

Ion Ratio Lower Upper

128 100

129 14.7 9.4 14.2#

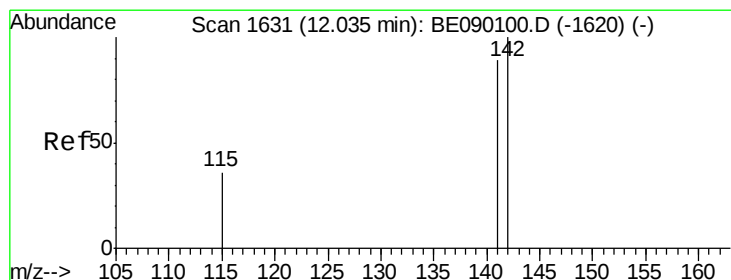
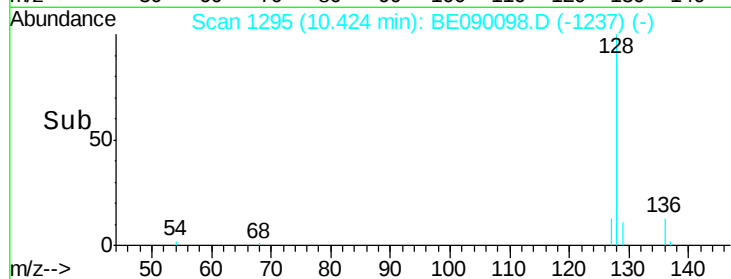
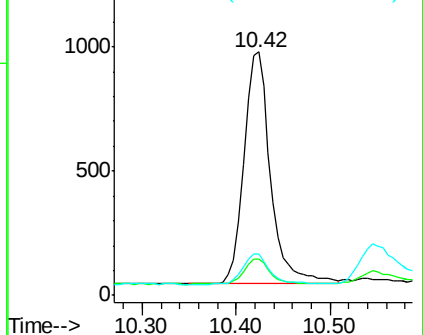
127 16.8 11.5 17.3



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: 0.09 ng/ul

RT: 12.03 min Scan# 1631

Delta R.T. -0.00 min

Lab File: BE090098.D

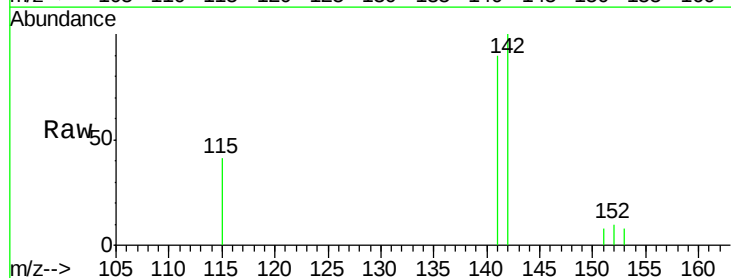
Acq: 14 Jul 2015 14:54

Tgt Ion:142 Resp: 1186

Ion Ratio Lower Upper

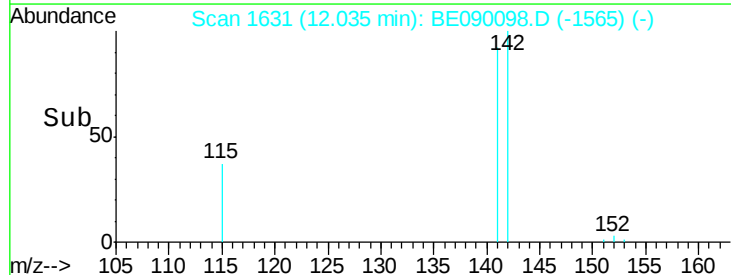
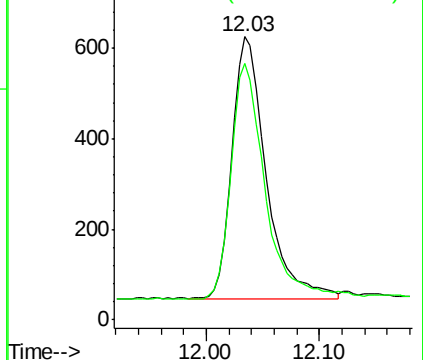
142 100

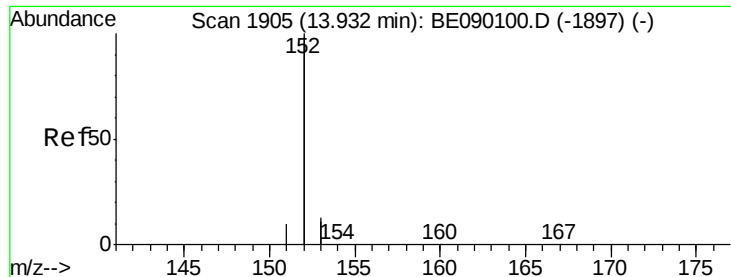
141 89.7 71.0 106.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.24 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

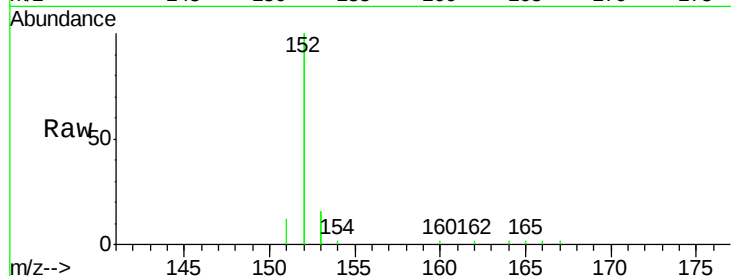
Tgt Ion:152 Resp: 8029

Ion Ratio Lower Upper

152 100

151 5.9 4.1 6.1

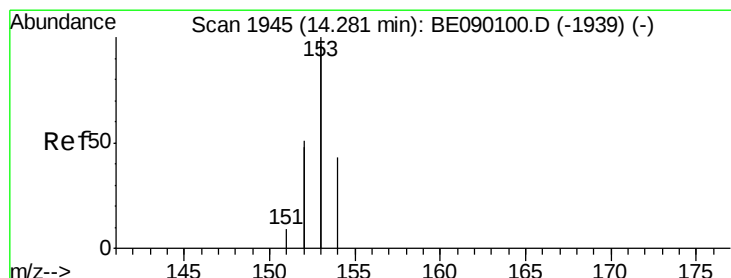
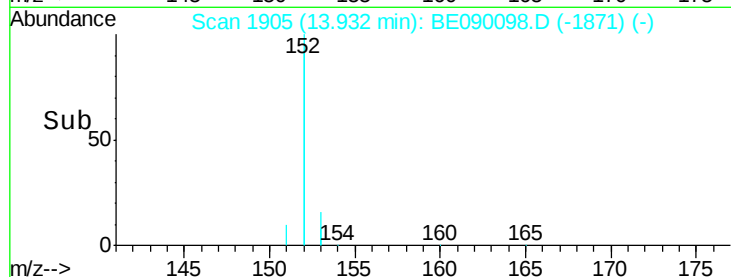
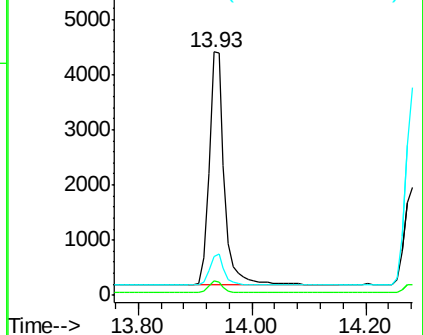
153 15.9 10.7 16.1



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



#8

Acenaphthene

Concen: 0.25 ng/ul

RT: 14.28 min Scan# 1945

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

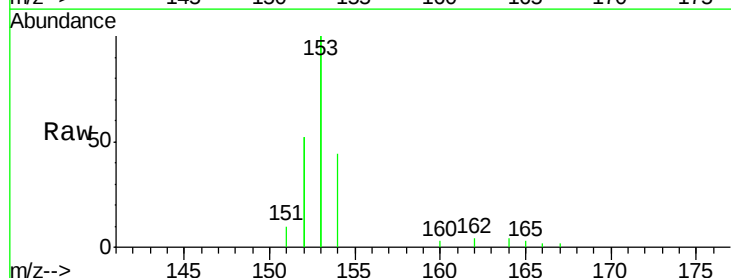
Tgt Ion:153 Resp: 5662

Ion Ratio Lower Upper

153 100

152 52.1 40.6 60.8

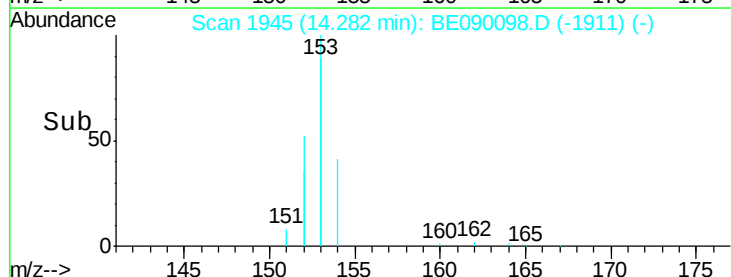
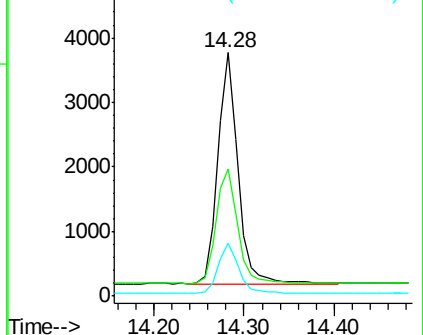
154 21.9 17.5 26.3

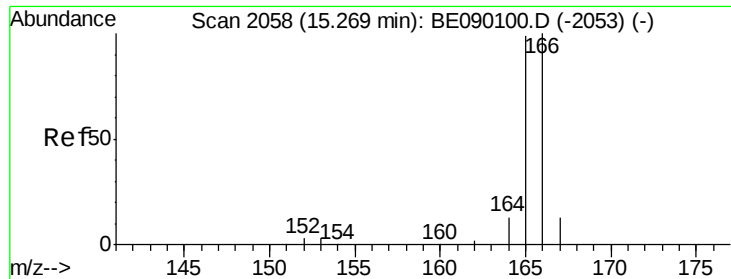


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.10 ng/ul

RT: 15.27 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

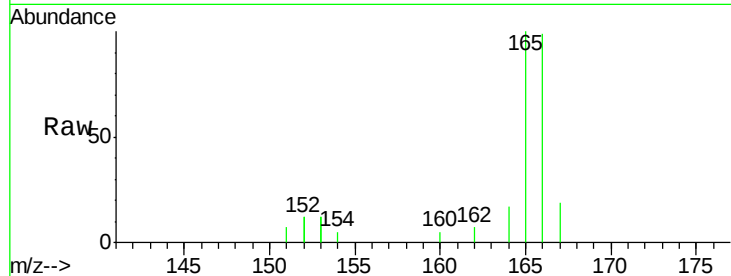
Tgt Ion:166 Resp: 1670

Ion Ratio Lower Upper

166 100

165 100.6 79.3 118.9

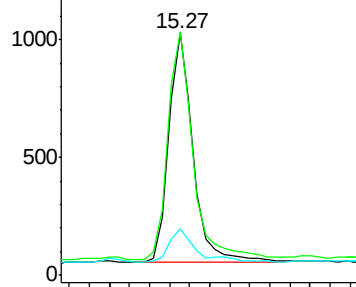
167 19.4 11.6 17.4#



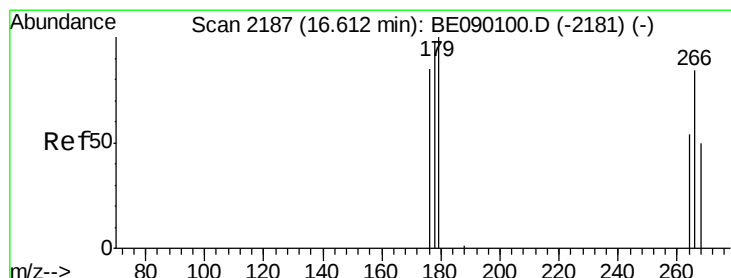
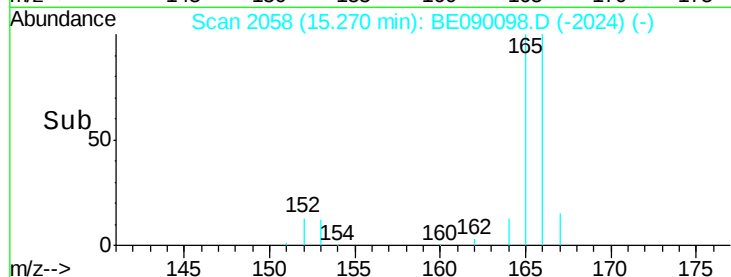
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#11

Pentachlorophenol

Concen: 0.03 ng/ul

RT: 16.62 min Scan# 2188

Delta R.T. 0.01 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

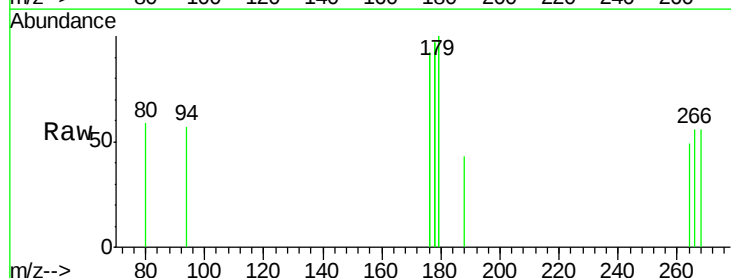
Tgt Ion:266 Resp: 65

Ion Ratio Lower Upper

266 100

264 69.2 46.8 70.2

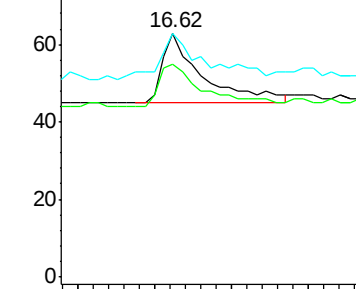
268 75.4 49.1 73.7#



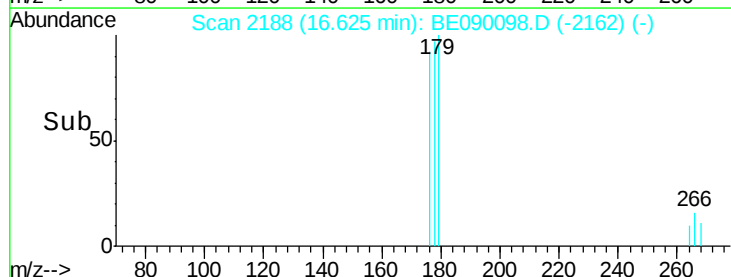
Abundance Ion 266.00 (265.70 to 266.70): E

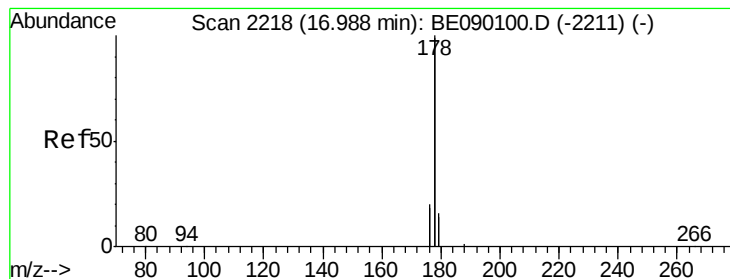
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->





#12

Phenanthrene

Concen: 0.24 ng/ul

RT: 16.99 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

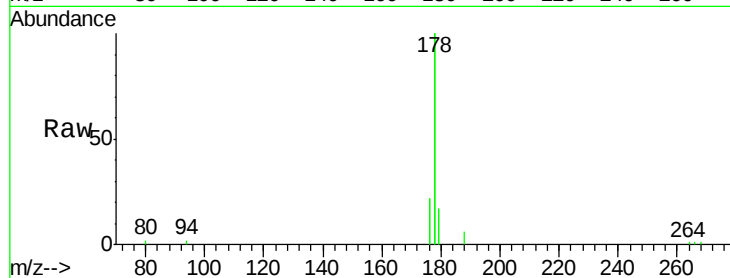
Tgt Ion:178 Resp: 10849

Ion Ratio Lower Upper

178 100

176 21.6 15.9 23.9

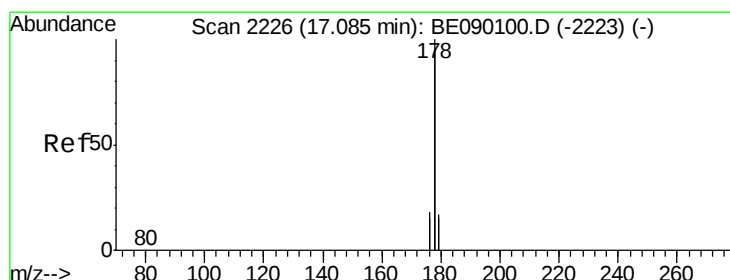
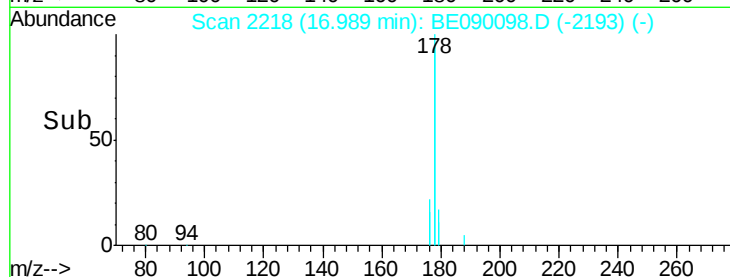
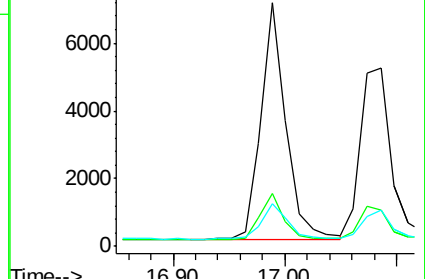
179 17.5 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#13

Anthracene

Concen: 0.24 ng/ul

RT: 17.09 min Scan# 2226

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

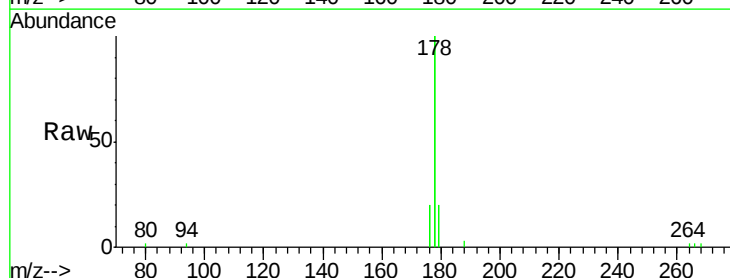
Tgt Ion:178 Resp: 10142

Ion Ratio Lower Upper

178 100

176 20.4 14.0 21.0

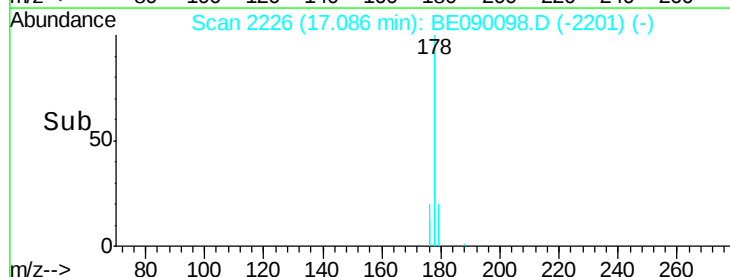
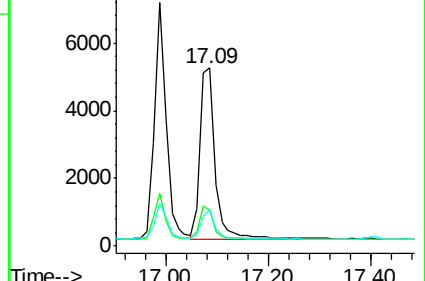
179 20.0 13.8 20.6

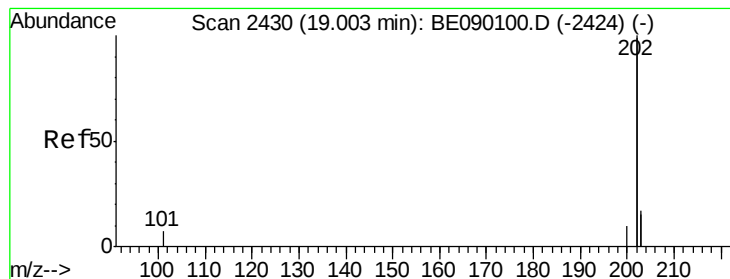


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.23 ng/ul

RT: 19.00 min Scan# 2430

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

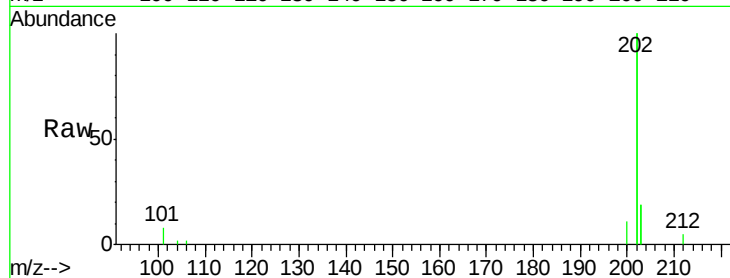
Tgt Ion:202 Resp: 11293

Ion Ratio Lower Upper

202 100

101 3.9 0.0 23.5

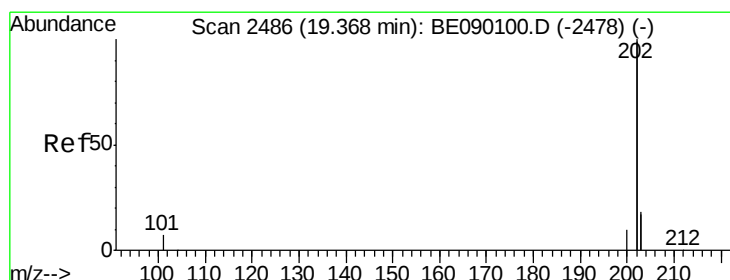
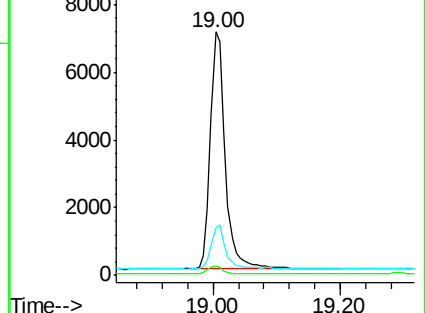
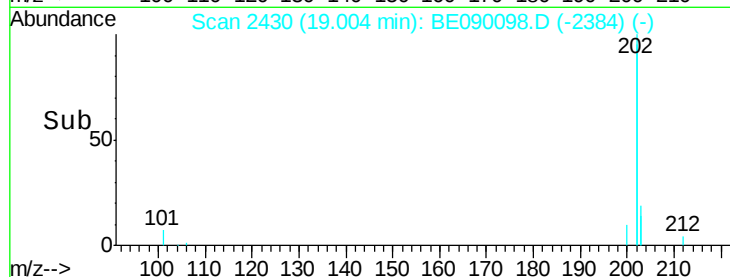
203 19.5 0.0 37.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 0.23 ng/ul

RT: 19.37 min Scan# 2486

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

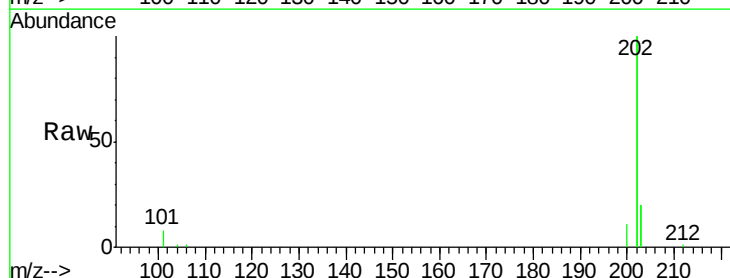
Tgt Ion:202 Resp: 11744

Ion Ratio Lower Upper

202 100

200 5.6 4.2 6.4

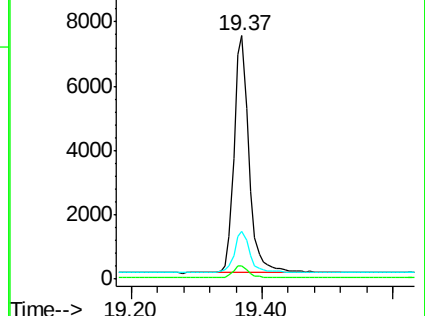
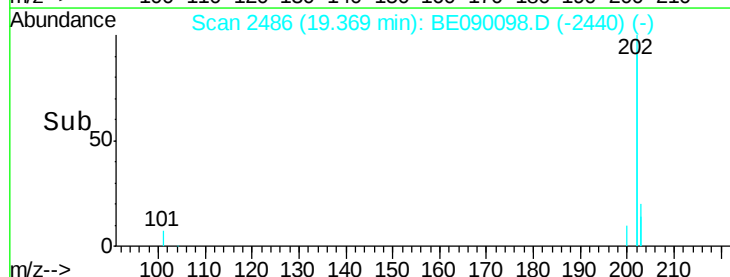
203 19.8 14.5 21.7

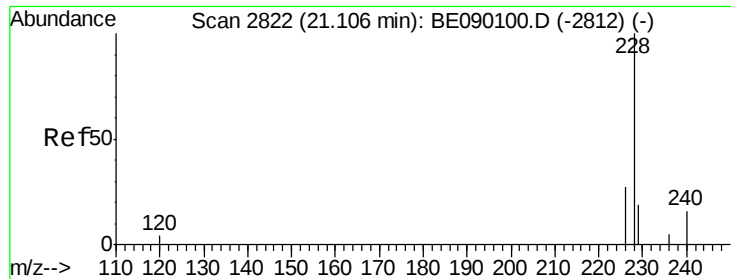


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.08 ng/ul

RT: 21.11 min Scan# 2821

Delta R.T. -0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

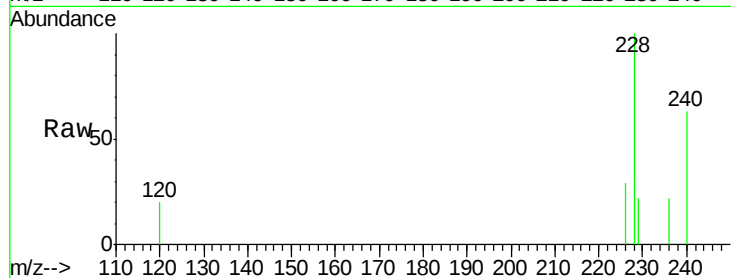
Tgt Ion:228 Resp: 2184

Ion Ratio Lower Upper

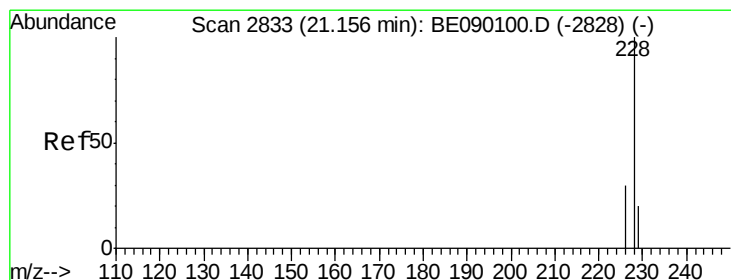
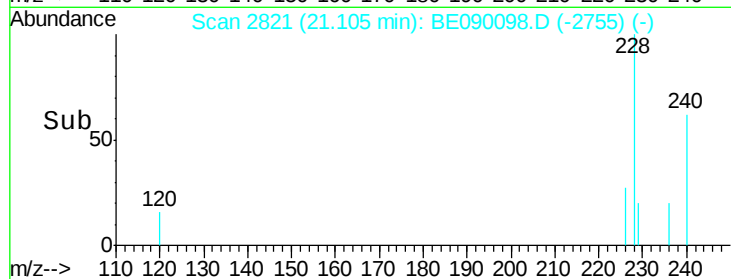
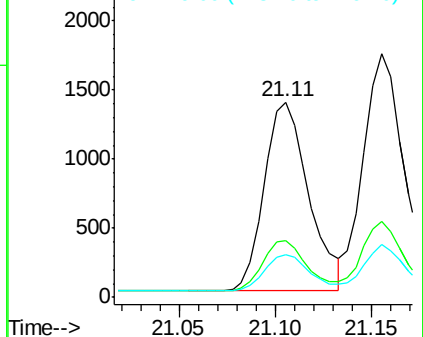
228 100

226 29.3 21.8 32.8

229 22.2 16.0 24.0



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



#19

Chrysene

Concen: 0.10 ng/ul

RT: 21.16 min Scan# 2832

Delta R.T. -0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

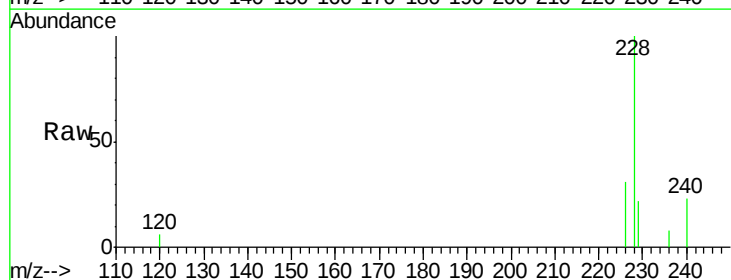
Tgt Ion:228 Resp: 2840

Ion Ratio Lower Upper

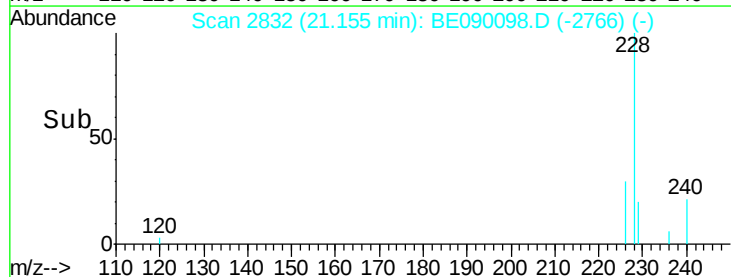
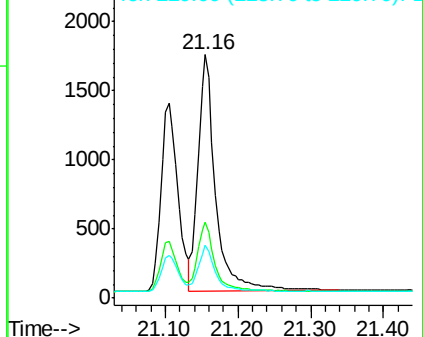
228 100

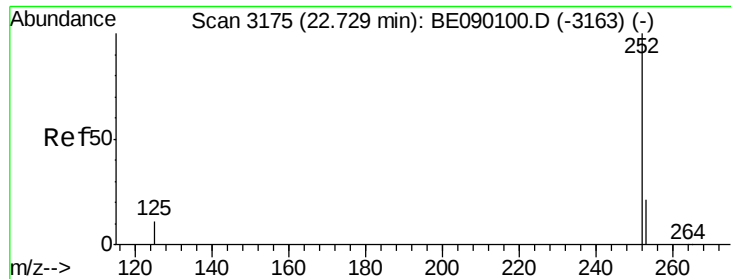
226 31.3 24.2 36.2

229 21.7 16.1 24.1



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: 0.07 ng/ul

RT: 22.73 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

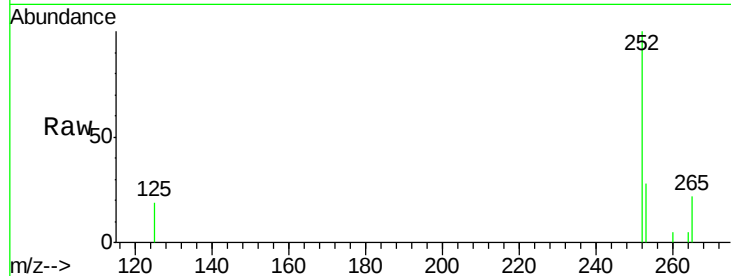
Tgt Ion:252 Resp: 1665

Ion Ratio Lower Upper

252 100

253 27.8 0.0 45.8

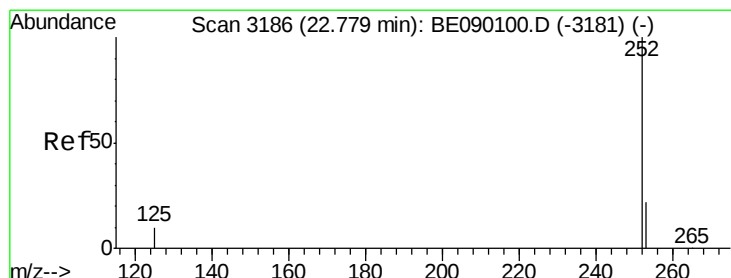
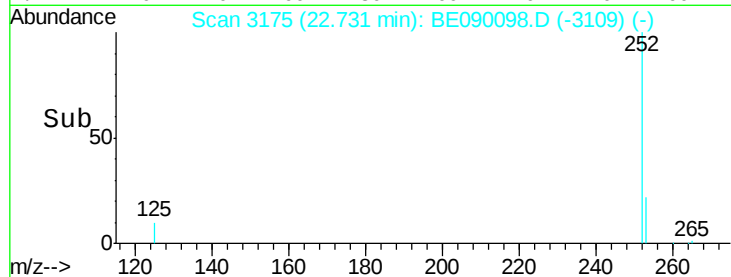
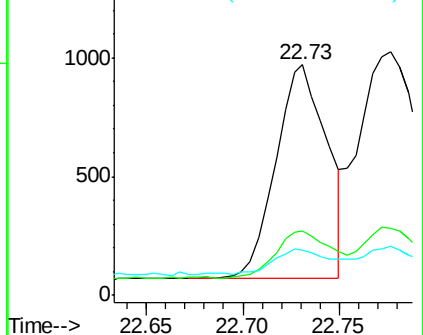
125 19.4 0.0 26.6



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: 0.11 ng/ul

RT: 22.78 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

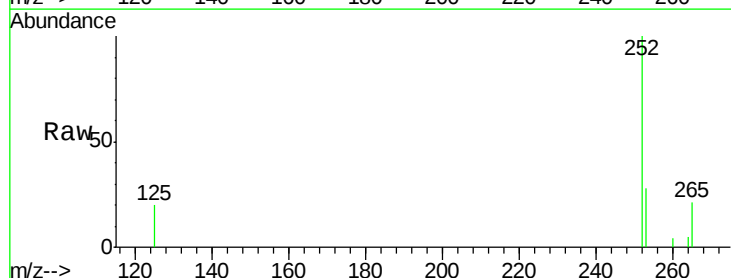
Tgt Ion:252 Resp: 2477

Ion Ratio Lower Upper

252 100

253 27.6 18.4 27.6#

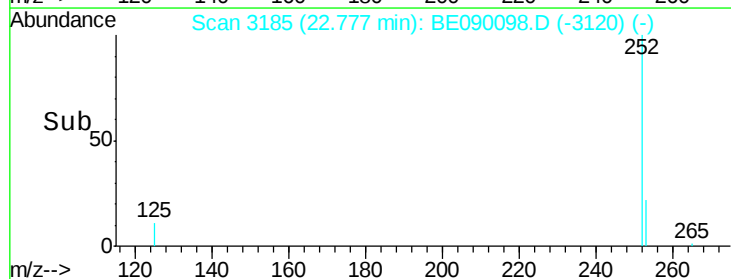
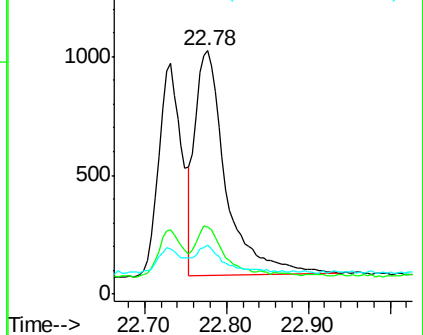
125 19.9 10.3 15.5#

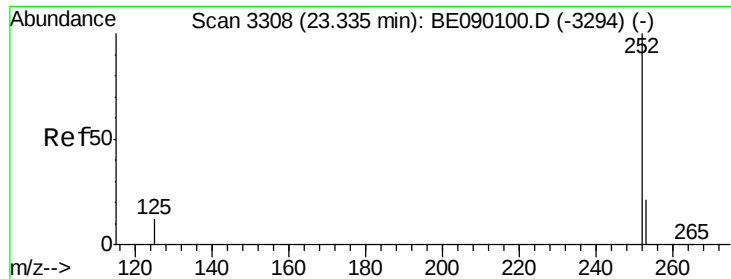


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.08 ng/ul

RT: 23.33 min Scan# 3307

Delta R.T. -0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

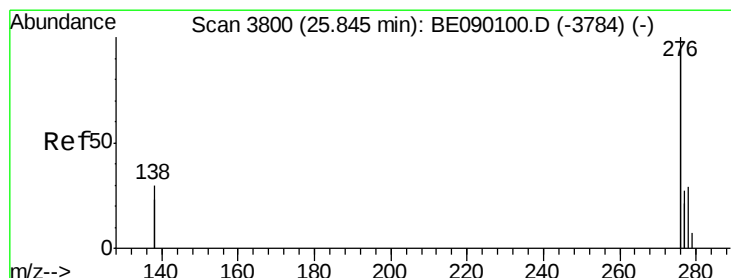
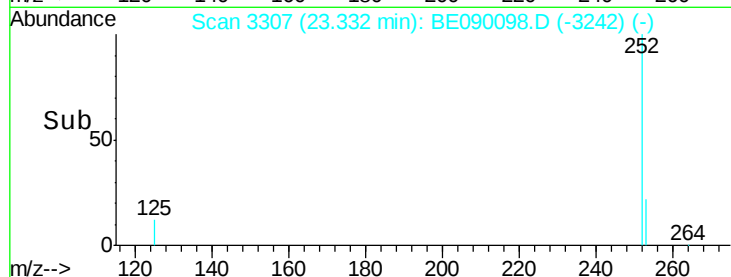
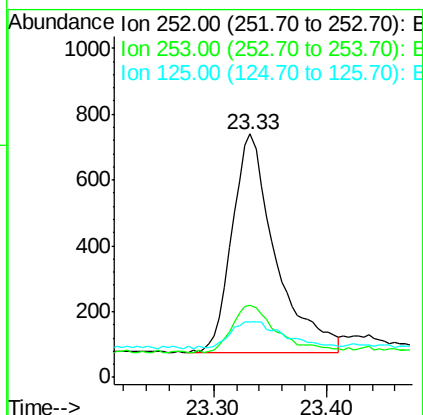
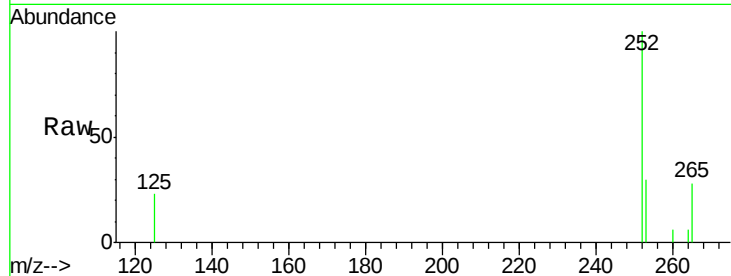
Tgt Ion: 252 Resp: 1747

Ion Ratio Lower Upper

252 100

253 29.6 18.6 27.8#

125 22.8 12.0 18.0#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.23 ng/ul

RT: 25.84 min Scan# 3799

Delta R.T. -0.01 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

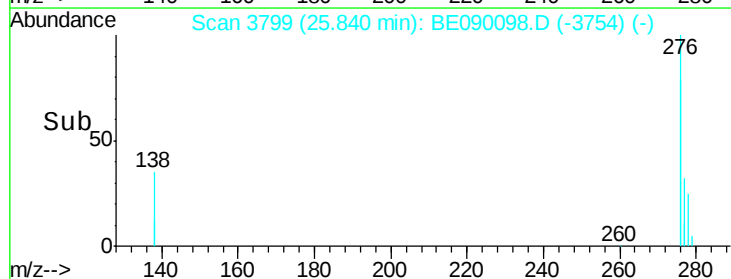
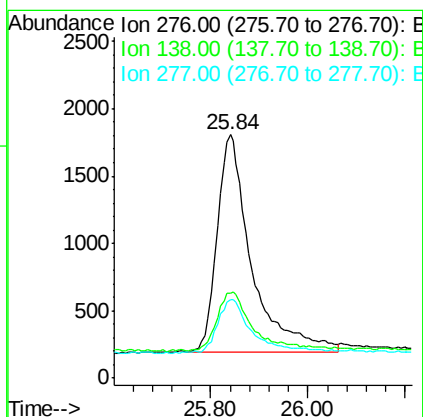
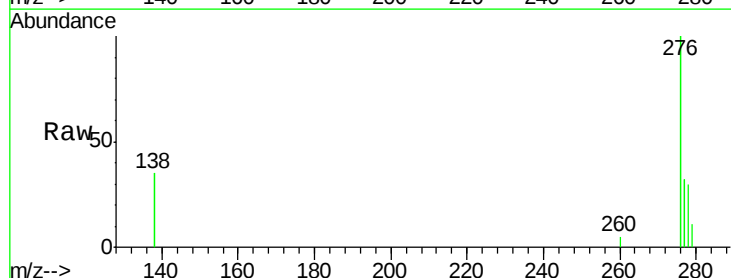
Tgt Ion: 276 Resp: 7902

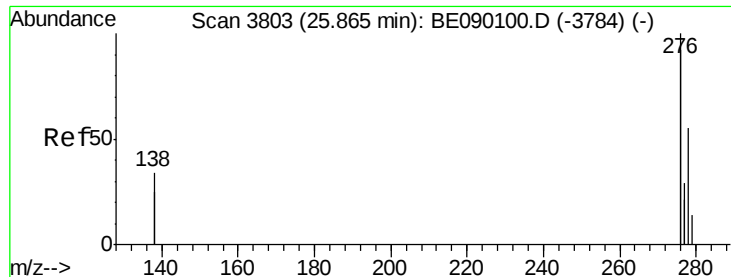
Ion Ratio Lower Upper

276 100

138 29.1 21.8 32.8

277 25.5 19.4 29.2





#25

Dibenzo(a,h)anthracene

Concen: 0.08 ng/ul

RT: 25.87 min Scan# 3803

Delta R.T. 0.00 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

Instrument :

BNA\_E

ClientSampleId :

SSTD0.101

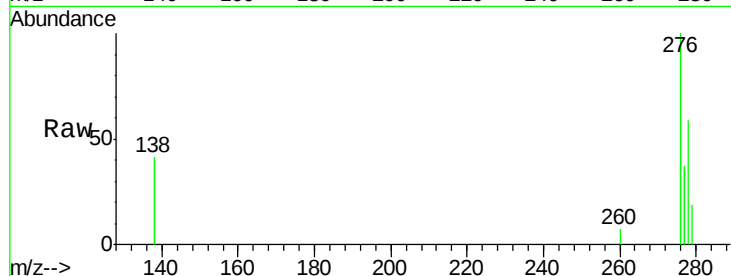
Tgt Ion: 278 Resp: 1485

Ion Ratio Lower Upper

278 100

139 0.0 0.0 0.0

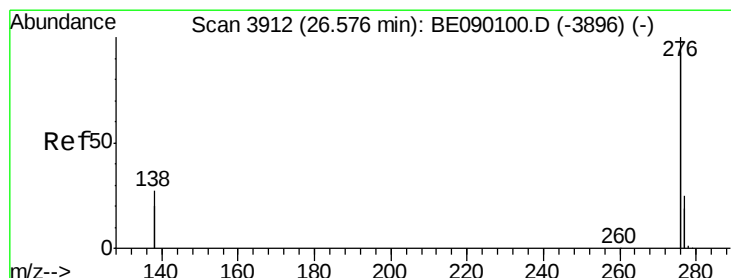
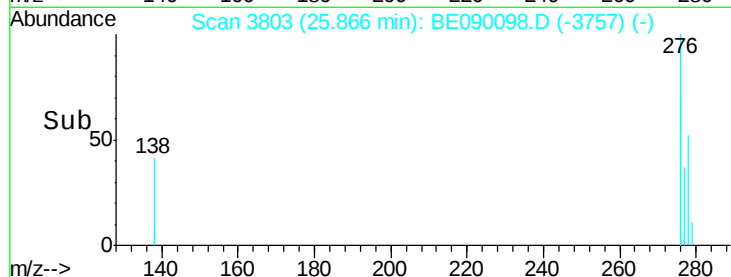
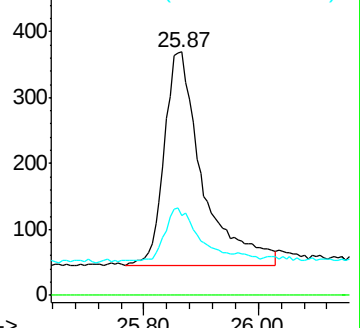
279 32.8 22.6 34.0



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



#26

Benzo(g,h,i)perylene

Concen: 0.24 ng/ul

RT: 26.57 min Scan# 3911

Delta R.T. -0.01 min

Lab File: BE090098.D

Acq: 14 Jul 2015 14:54

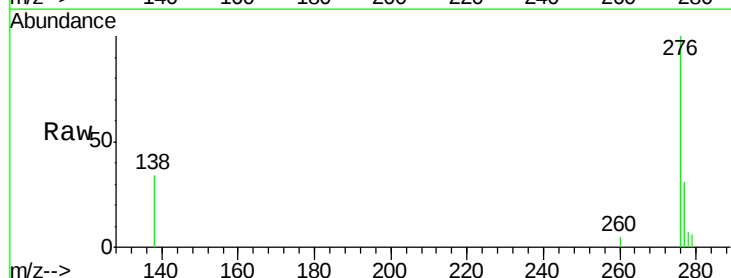
Tgt Ion: 276 Resp: 7227

Ion Ratio Lower Upper

276 100

277 31.1 20.0 30.0#

138 33.9 21.7 32.5#



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

