

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111115\  
 Data File : BE091130.D  
 Acq On : 12 Nov 2015 2:59  
 Operator : UM/NP  
 Sample : SSTDC00.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTD0.494

Quant Time: Nov 13 15:21:26 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 13 13:56:00 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.90  | 152  | 3184     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 9.57  | 136  | 16835    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 13.40 | 164  | 8574     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 16.14 | 188  | 21254    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 20.29 | 240  | 22301    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 22.19 | 264  | 19762    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |      |
|-----------------------------|-------|-----|-------|------|-------|------|
| System Monitoring Compounds |       |     |       |      |       |      |
| 2) 1,4-Dioxane-d8           | 2.94  | 96  | 3909  | 1.71 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10  | 11.08 | 152 | 8600  | 0.37 | ng/ul | 0.00 |
| 16) Fluoranthene-d10        | 18.12 | 212 | 21002 | 0.35 | ng/ul | 0.00 |

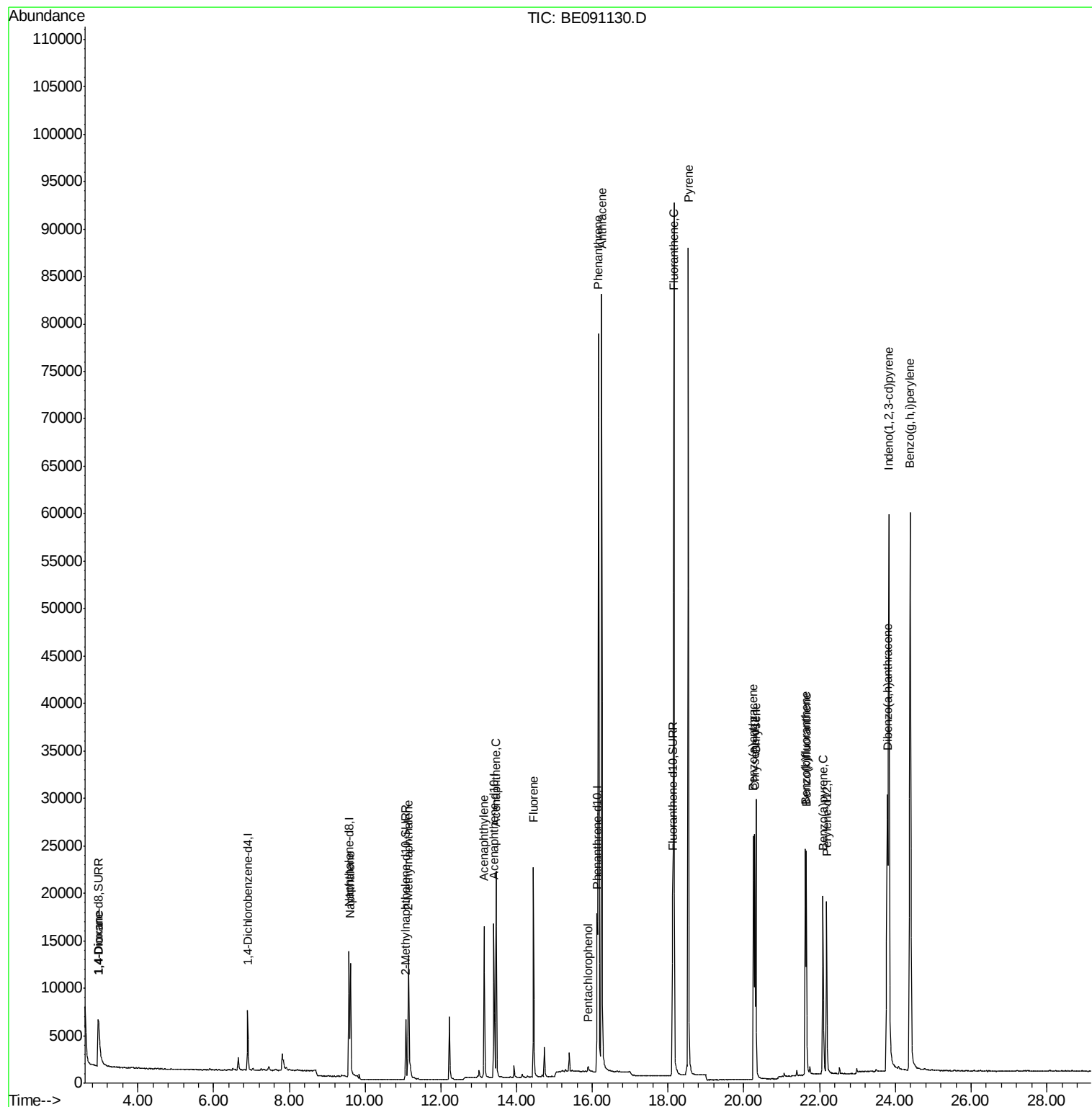
|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Qvalue |        |    |
| 3) 1,4-Dioxane             | 2.96  | 88  | 4487   | 1.73   | ng/ul# | 71 |
| 5) Naphthalene             | 9.61  | 128 | 16020  | 0.39   | ng/ul  | 98 |
| 7) 2-Methylnaphthalene     | 11.15 | 142 | 13147  | 0.49   | ng/ul  | 85 |
| 9) Acenaphthylene          | 13.15 | 152 | 16991  | 0.40   | ng/ul  | 98 |
| 10) Acenaphthene           | 13.46 | 153 | 11652  | 0.40   | ng/ul  | 90 |
| 11) Fluorene               | 14.45 | 166 | 14064  | 0.37   | ng/ul  | 96 |
| 13) Pentachlorophenol      | 15.89 | 266 | 620    | 0.31   | ng/ul  | 99 |
| 14) Phenanthrene           | 16.16 | 178 | 94439  | 0.38   | ng/ul  | 97 |
| 15) Anthracene             | 16.25 | 178 | 88126  | 0.39   | ng/ul  | 97 |
| 17) Fluoranthene           | 18.15 | 202 | 103404 | 0.36   | ng/ul  | 88 |
| 19) Pyrene                 | 18.53 | 202 | 97604  | 0.39   | ng/ul# | 80 |
| 20) Benzo(a)anthracene     | 20.26 | 228 | 21314  | 0.37   | ng/ul  | 98 |
| 21) Chrysene               | 20.32 | 228 | 25284  | 0.38   | ng/ul  | 96 |
| 23) Benzo(b)fluoranthene   | 21.62 | 252 | 24678  | 0.40   | ng/ul  | 94 |
| 24) Benzo(k)fluoranthene   | 21.65 | 252 | 22871  | 0.36   | ng/ul  | 94 |
| 25) Benzo(a)pyrene         | 22.09 | 252 | 22195  | 0.39   | ng/ul# | 91 |
| 26) Indeno(1,2,3-cd)pyrene | 23.83 | 276 | 109497 | 0.46   | ng/ul# | 81 |
| 27) Dibenzo(a,h)anthracene | 23.79 | 278 | 21554  | 0.38   | ng/ul# | 71 |
| 28) Benzo(g,h,i)perylene   | 24.39 | 276 | 94639  | 0.38   | ng/ul  | 92 |

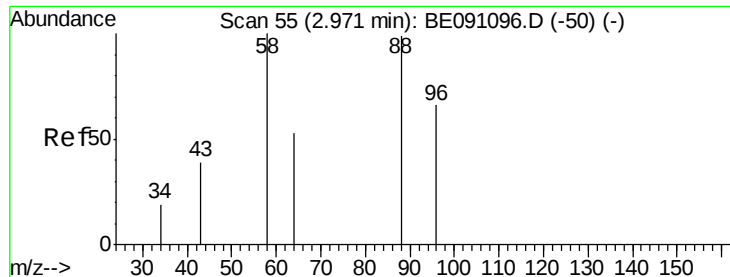
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111115\  
Data File : BE091130.D  
Acq On : 12 Nov 2015 2:59  
Operator : UM/NP  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.494

Quant Time: Nov 13 15:21:26 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 13 13:56:00 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 1.73 ng/ul

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

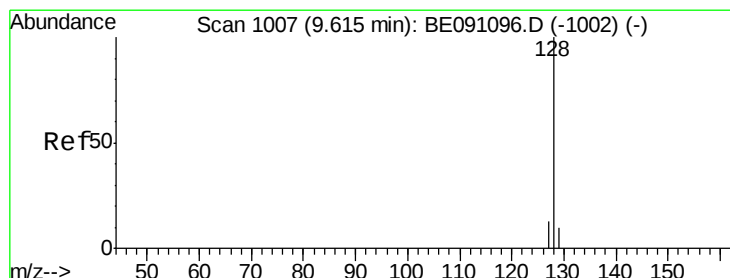
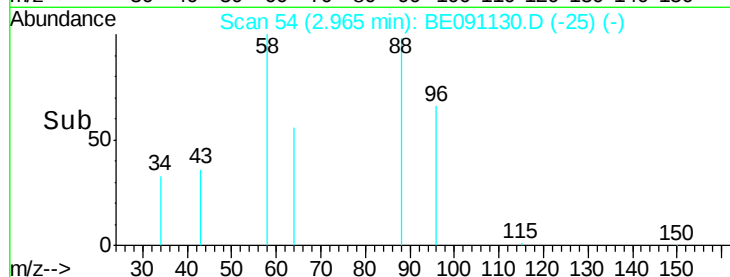
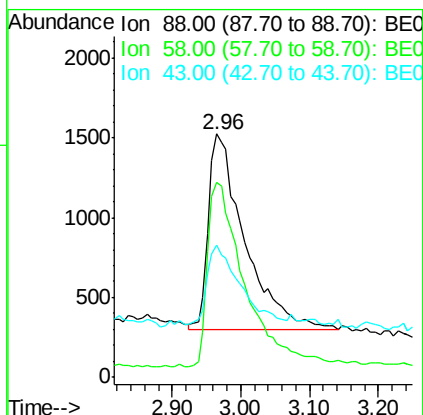
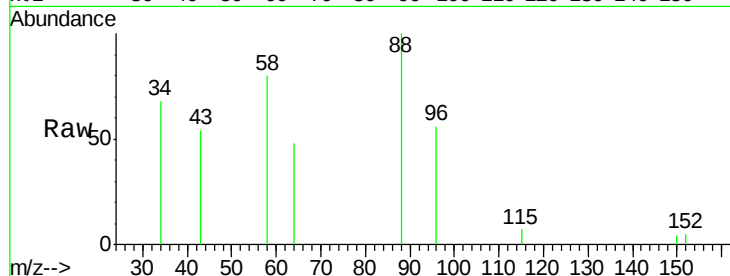
Tgt Ion: 88 Resp: 4487

Ion Ratio Lower Upper

88 100

58 97.3 55.4 83.2#

43 39.5 24.2 36.2#



#5

Naphthalene

Concen: 0.39 ng/ul

RT: 9.61 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

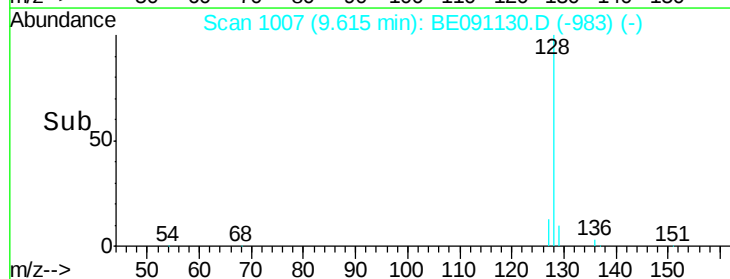
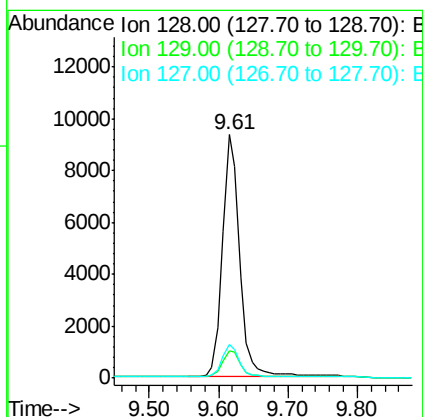
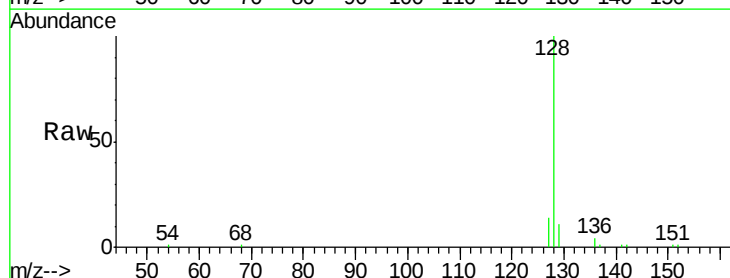
Tgt Ion: 128 Resp: 16020

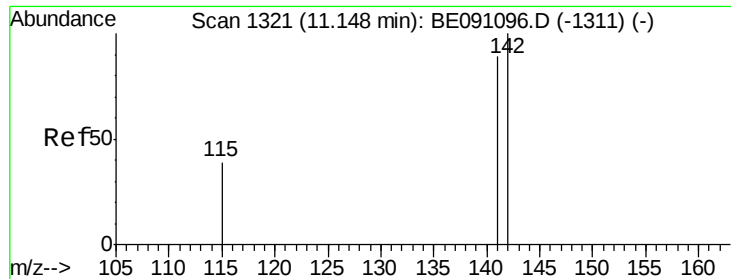
Ion Ratio Lower Upper

128 100

129 11.2 9.8 14.8

127 13.8 10.7 16.1





#7

2-Methylnaphthalene

Concen: 0.49 ng/ul

RT: 11.15 min Scan# 1321

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

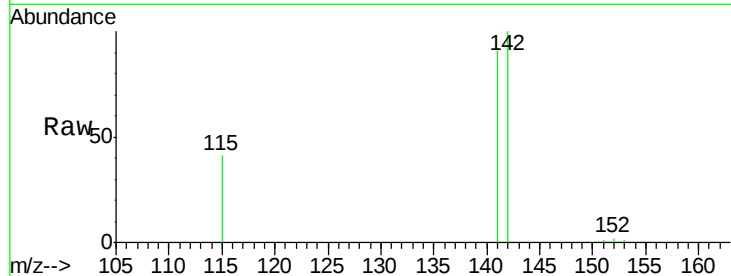
SSTD0.494

Tgt Ion:142 Resp: 13147

Ion Ratio Lower Upper

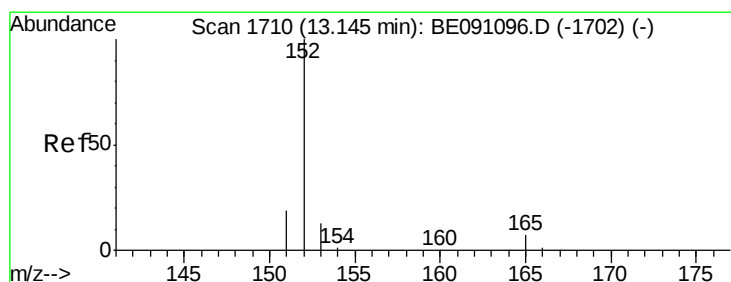
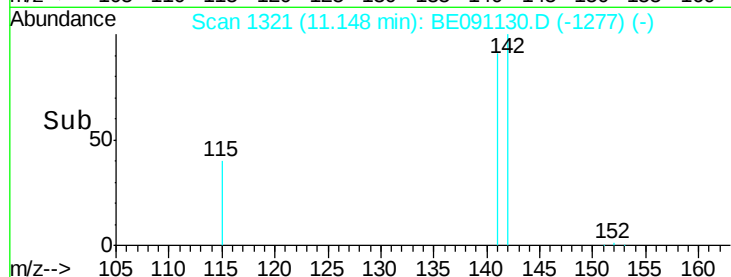
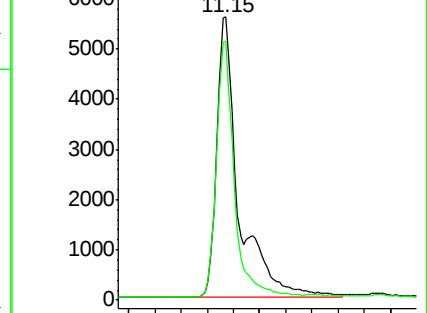
142 100

141 73.7 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#9

Acenaphthylene

Concen: 0.40 ng/ul

RT: 13.15 min Scan# 1710

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

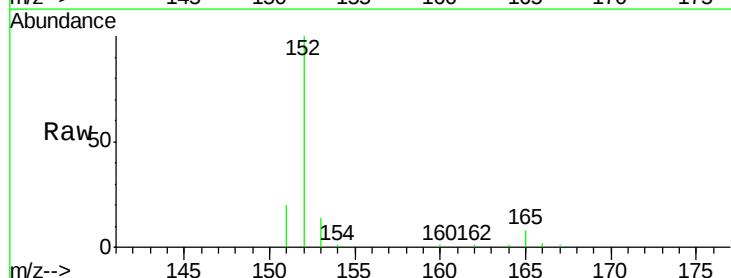
Tgt Ion:152 Resp: 16991

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

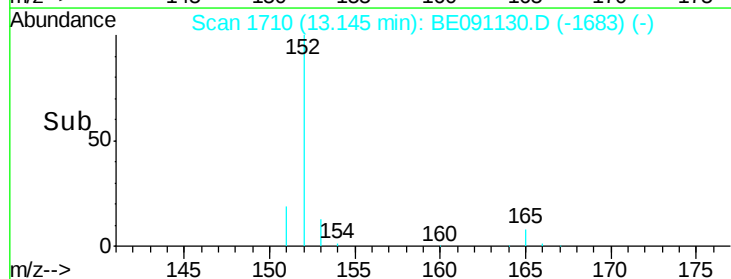
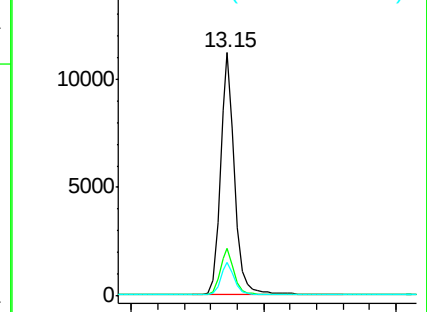
153 13.7 11.3 16.9

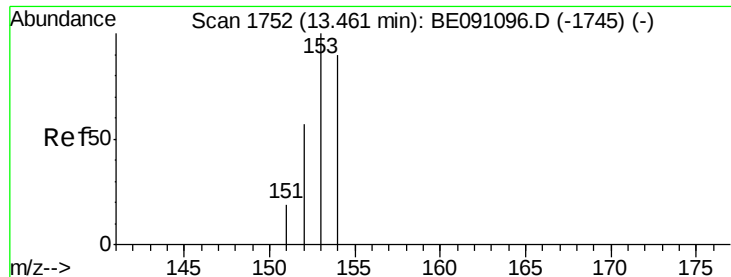


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.40 ng/ul

RT: 13.46 min Scan# 1752

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

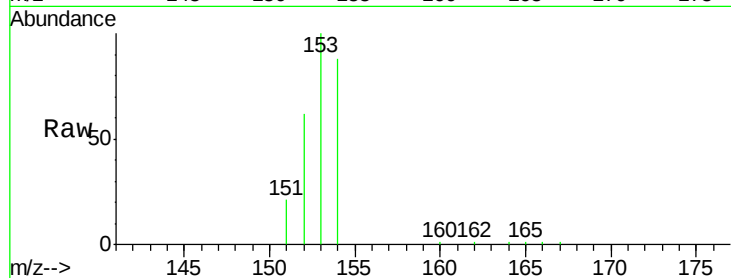
Tgt Ion:153 Resp: 11652

Ion Ratio Lower Upper

153 100

152 61.7 42.3 63.5

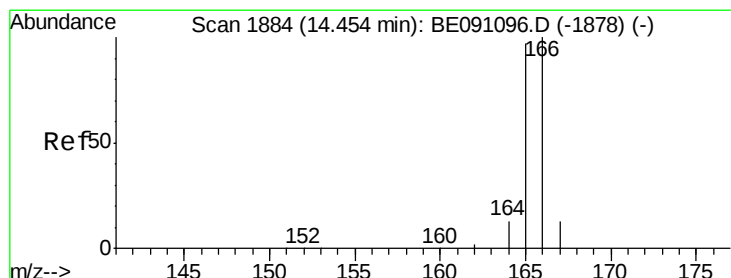
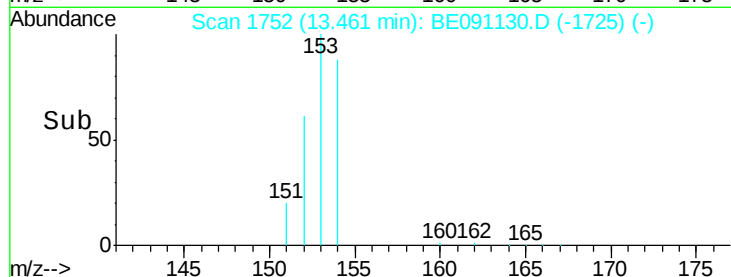
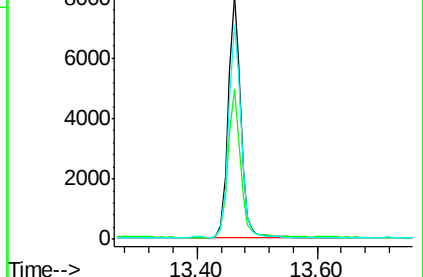
154 88.2 64.7 97.1



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



#11

Fluorene

Concen: 0.37 ng/ul

RT: 14.45 min Scan# 1883

Delta R.T. -0.01 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

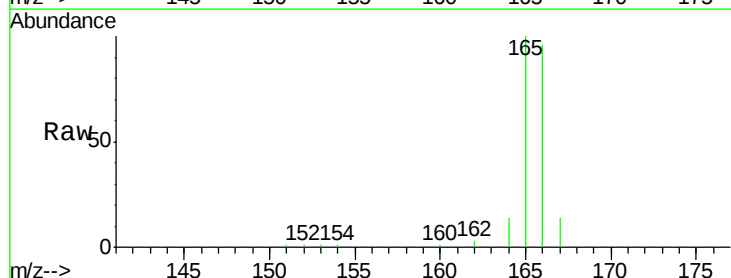
Tgt Ion:166 Resp: 14064

Ion Ratio Lower Upper

166 100

165 104.5 87.6 131.4

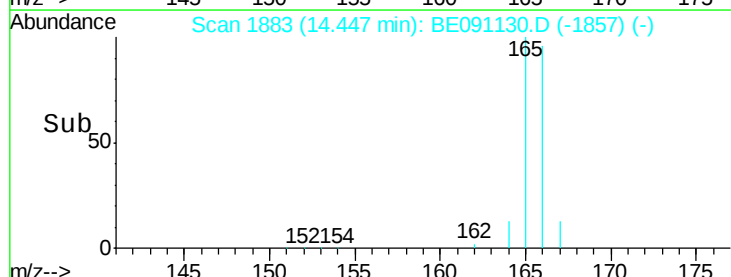
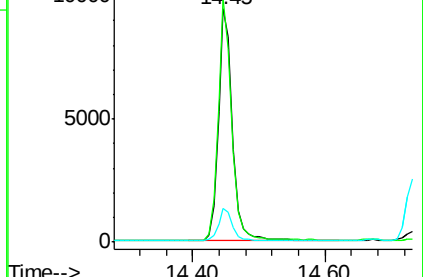
167 14.5 11.1 16.7

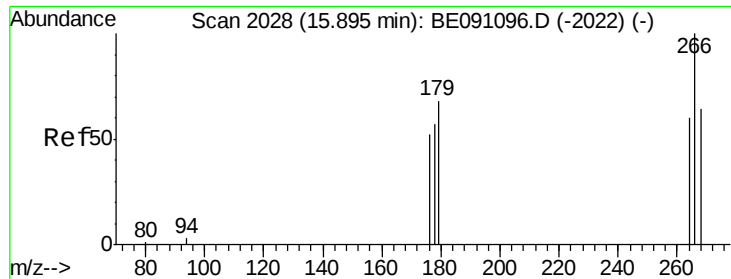


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

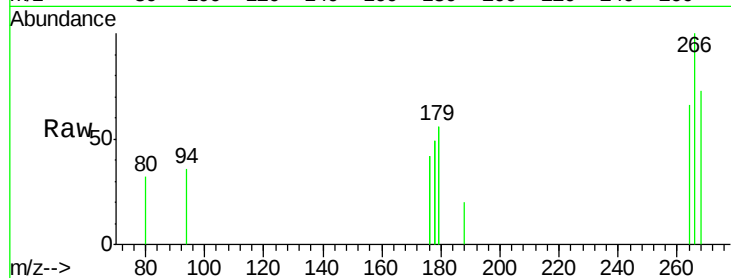




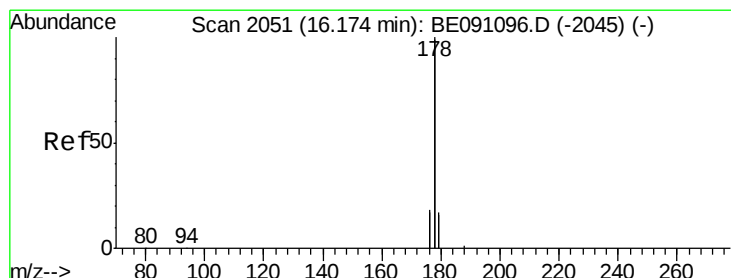
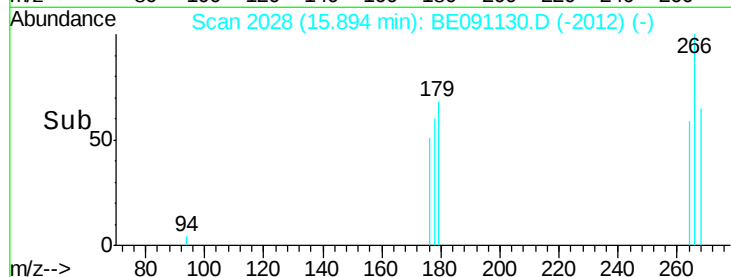
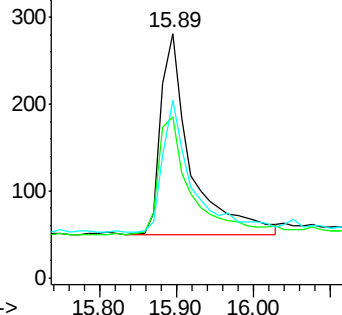
#13  
 Pentachlorophenol  
 Concen: 0.31 ng/ul  
 RT: 15.89 min Scan# 2028  
 Delta R.T. -0.00 min  
 Lab File: BE091130.D  
 Acq: 12 Nov 2015 2:59

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST0.494

Tgt Ion: 266 Resp: 620  
 Ion Ratio Lower Upper  
 266 100  
 264 66.8 53.5 80.3  
 268 66.1 54.2 81.2

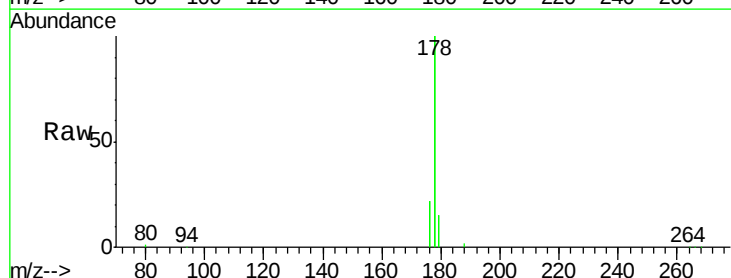


Abundance Ion 266.00 (265.70 to 266.70): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

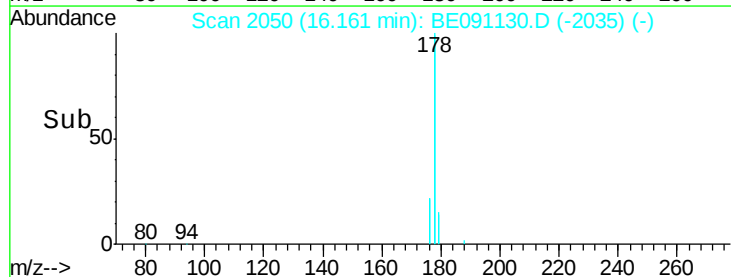
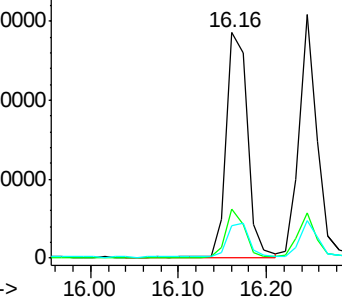


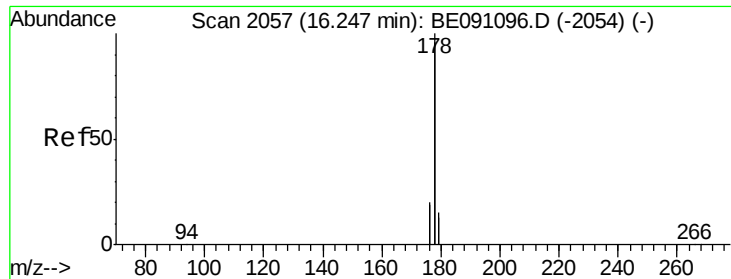
#14  
 Phenanthrene  
 Concen: 0.38 ng/ul  
 RT: 16.16 min Scan# 2050  
 Delta R.T. -0.01 min  
 Lab File: BE091130.D  
 Acq: 12 Nov 2015 2:59

Tgt Ion: 178 Resp: 94439  
 Ion Ratio Lower Upper  
 178 100  
 176 21.8 16.2 24.4  
 179 14.6 12.8 19.2



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

Anthracene

Concen: 0.39 ng/ul

RT: 16.25 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

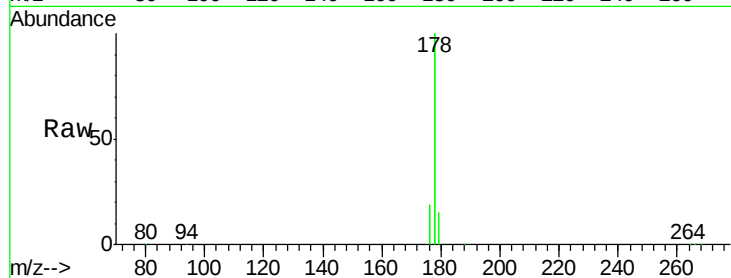
Tgt Ion:178 Resp: 88126

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

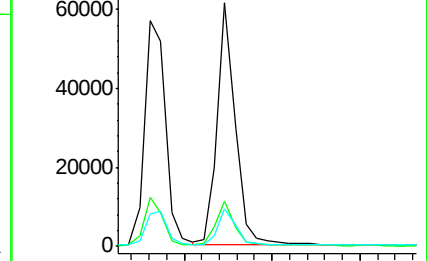
179 15.3 13.3 19.9



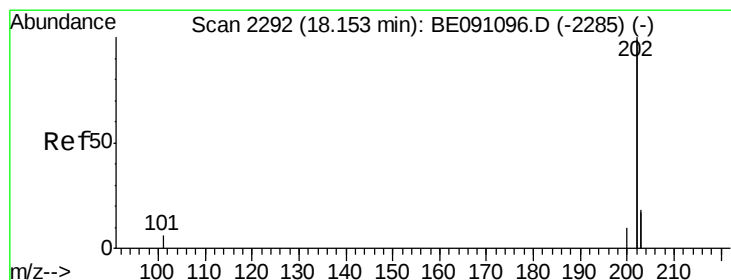
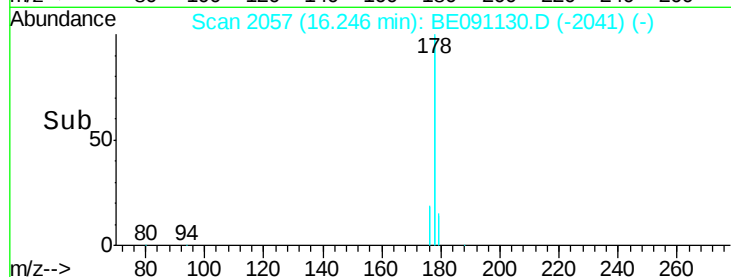
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#17

Fluoranthene

Concen: 0.36 ng/ul

RT: 18.15 min Scan# 2292

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

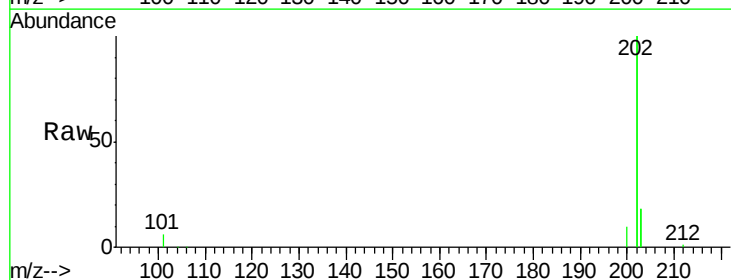
Tgt Ion:202 Resp: 103404

Ion Ratio Lower Upper

202 100

101 3.1 0.0 33.1

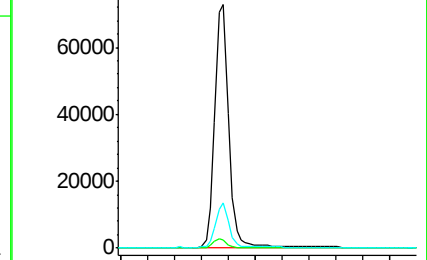
203 18.4 0.0 37.2



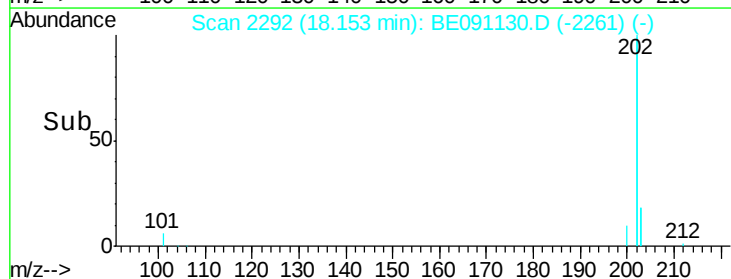
Abundance Ion 202.00 (201.70 to 202.70): E

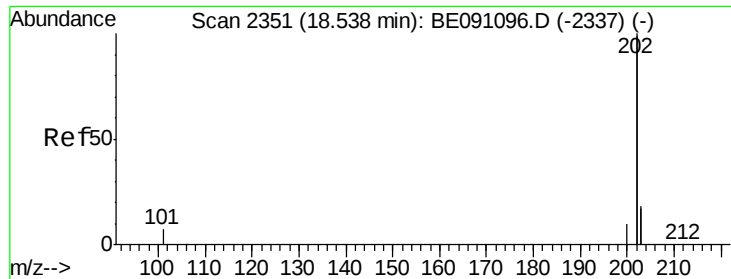
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#19

Pyrene

Concen: 0.39 ng/ul

RT: 18.53 min Scan# 2350

Delta R.T. -0.01 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

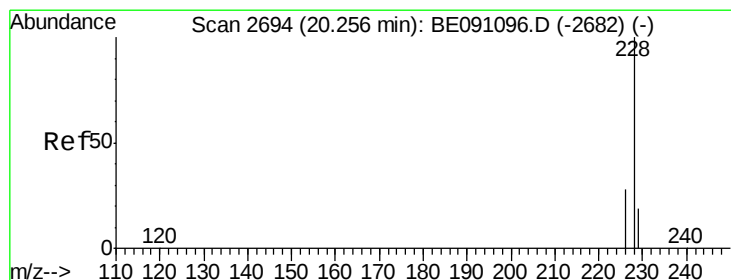
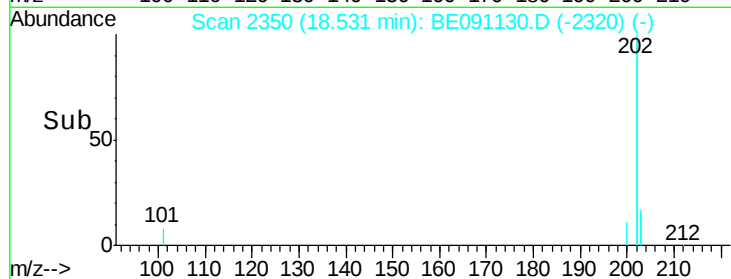
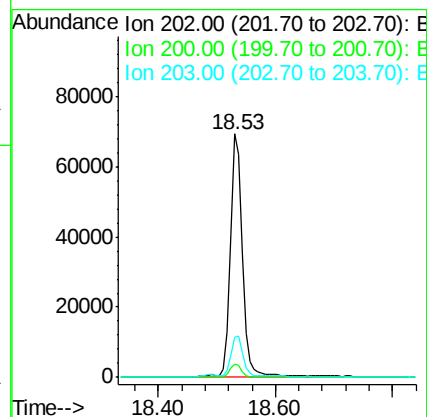
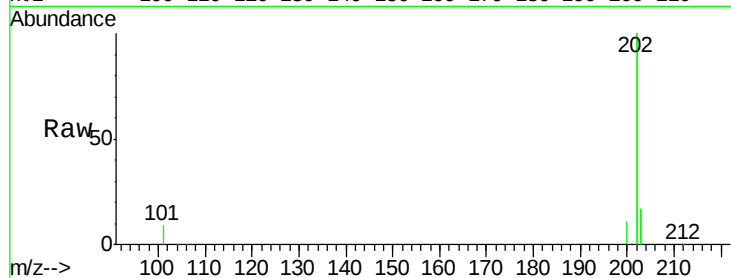
Tgt Ion:202 Resp: 97604

Ion Ratio Lower Upper

202 100

200 5.6 18.0 27.0#

203 16.7 13.8 20.6



#20

Benzo(a)anthracene

Concen: 0.37 ng/ul

RT: 20.26 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

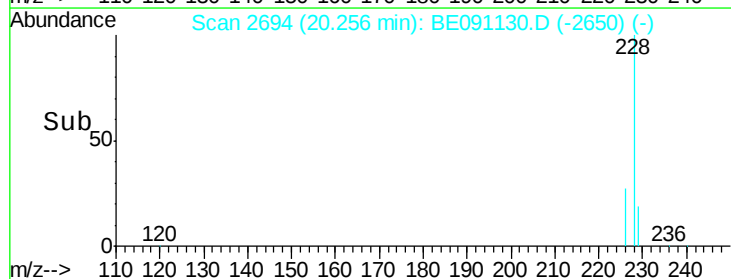
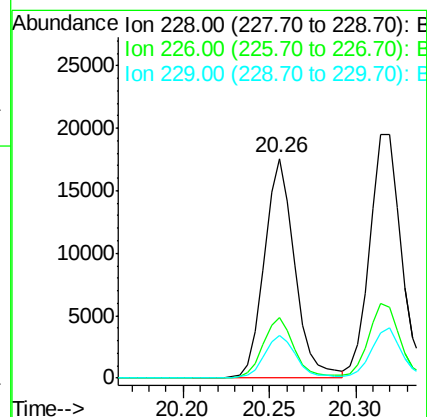
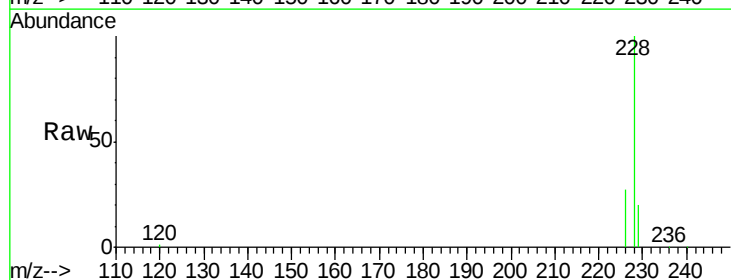
Tgt Ion:228 Resp: 21314

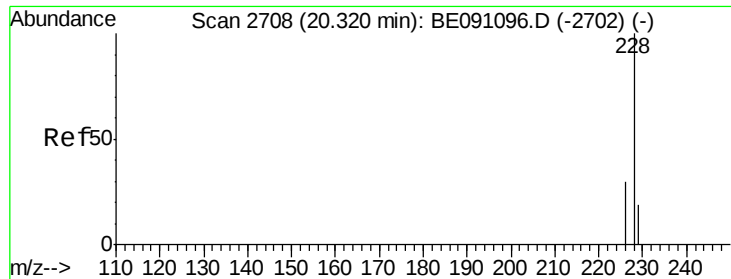
Ion Ratio Lower Upper

228 100

226 27.5 23.0 34.4

229 19.6 15.2 22.8





#21

Chrysene

Concen: 0.38 ng/ul

RT: 20.32 min Scan# 2708

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

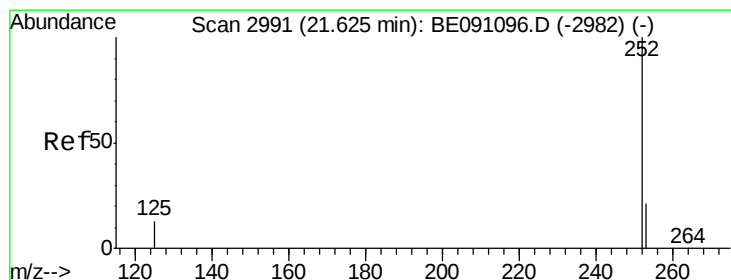
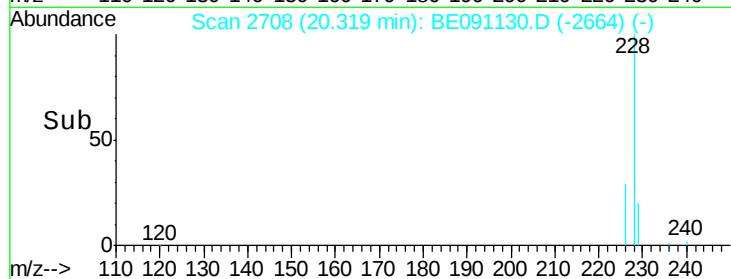
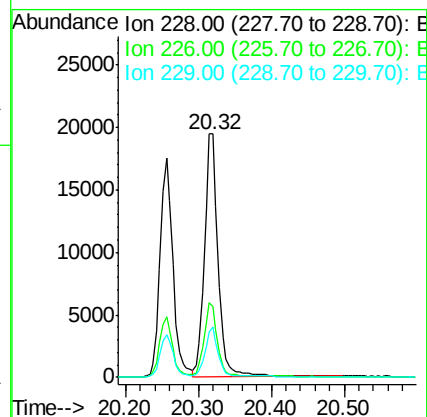
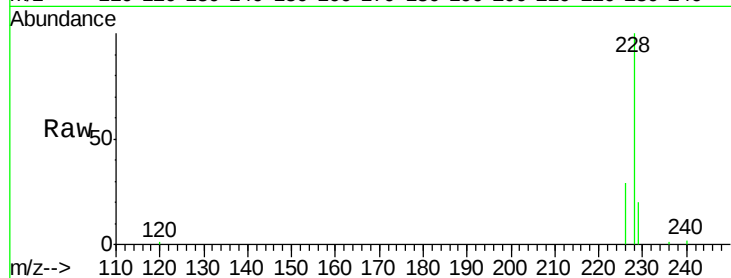
Tgt Ion:228 Resp: 25284

Ion Ratio Lower Upper

228 100

226 29.3 25.7 38.5

229 20.5 15.2 22.8



#23

Benzo(b)fluoranthene

Concen: 0.40 ng/ul

RT: 21.62 min Scan# 2990

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

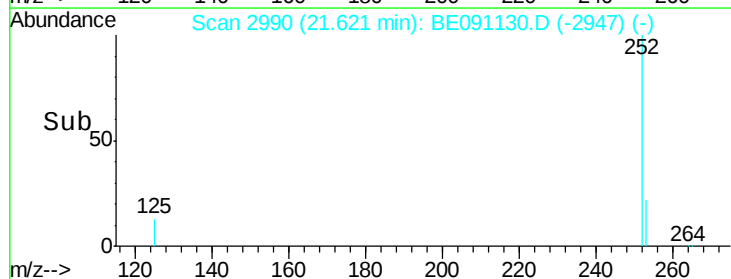
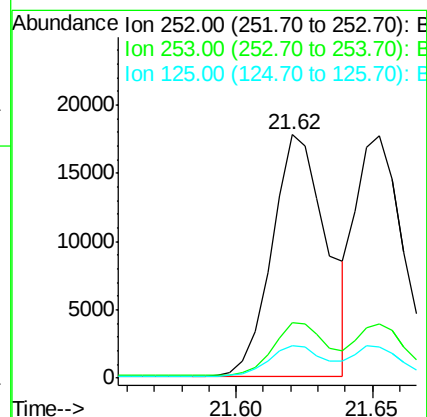
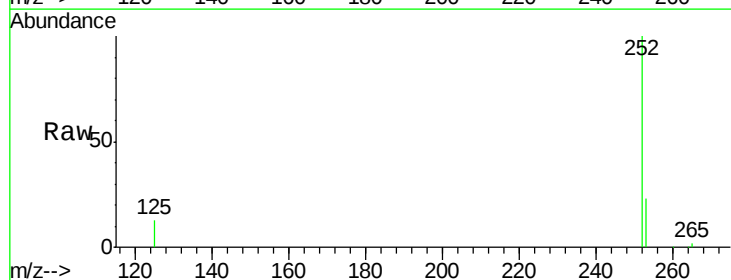
Tgt Ion:252 Resp: 24678

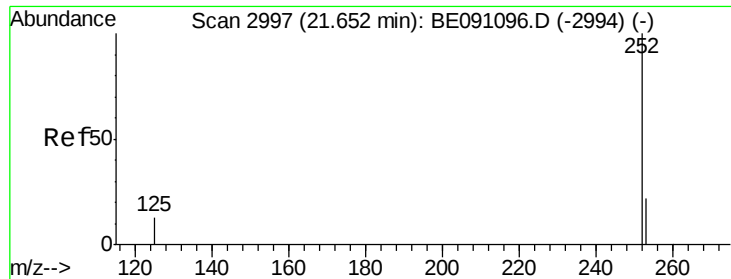
Ion Ratio Lower Upper

252 100

253 22.6 0.0 48.0

125 13.3 0.0 36.6





#24

Benzo(k)fluoranthene

Concen: 0.36 ng/ul

RT: 21.65 min Scan# 2997

Delta R.T. 0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

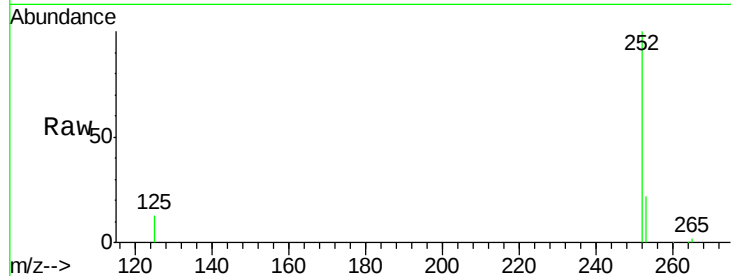
Tgt Ion:252 Resp: 22871

Ion Ratio Lower Upper

252 100

253 22.4 20.8 31.2

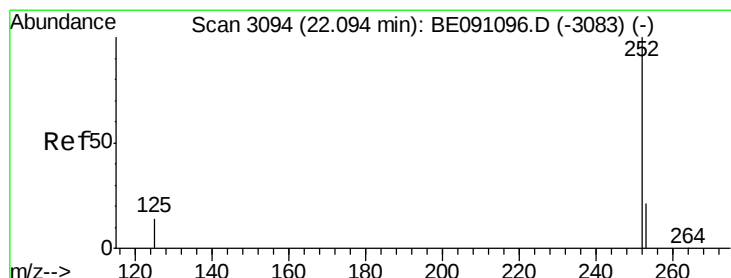
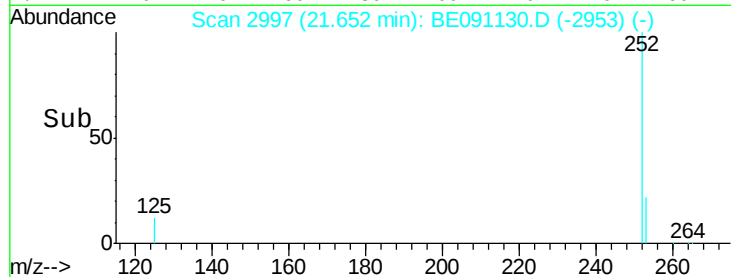
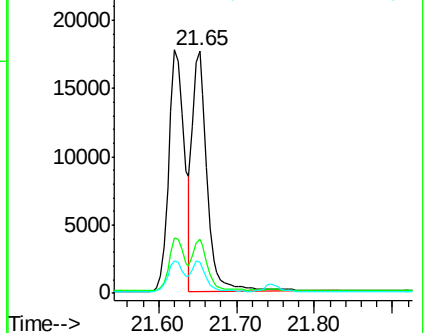
125 13.1 12.2 18.4



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



#25

Benzo(a)pyrene

Concen: 0.39 ng/ul

RT: 22.09 min Scan# 3093

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

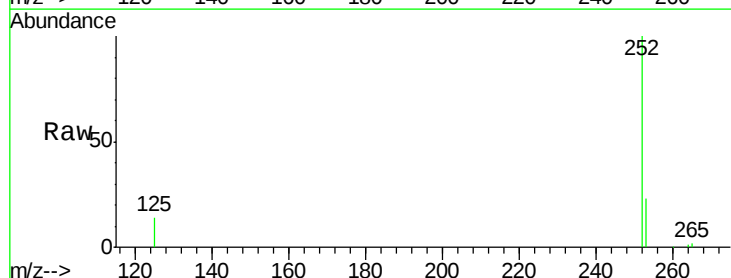
Tgt Ion:252 Resp: 22195

Ion Ratio Lower Upper

252 100

253 22.6 21.8 32.8

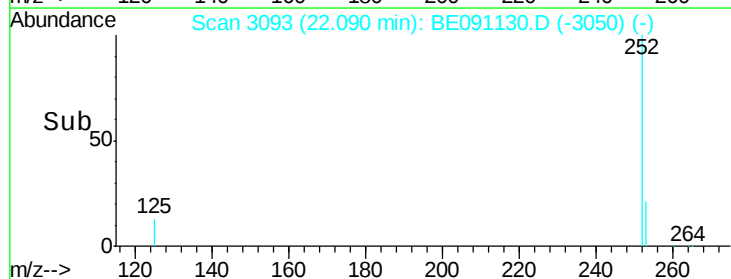
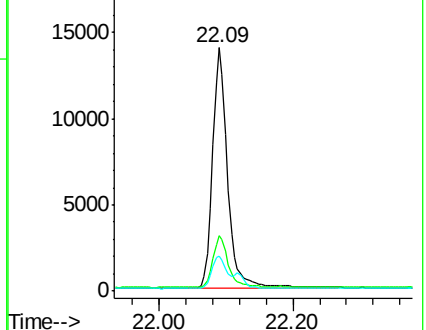
125 14.1 14.5 21.7#

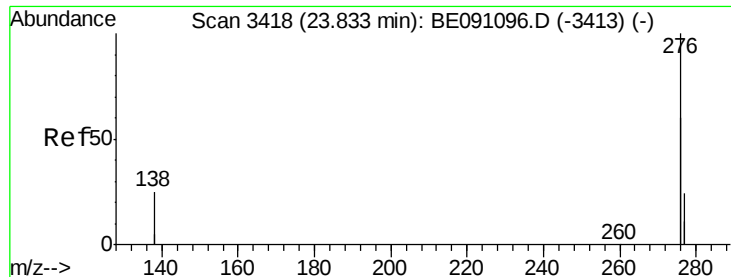


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.46 ng/ul

RT: 23.83 min Scan# 3417

Delta R.T. -0.01 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494

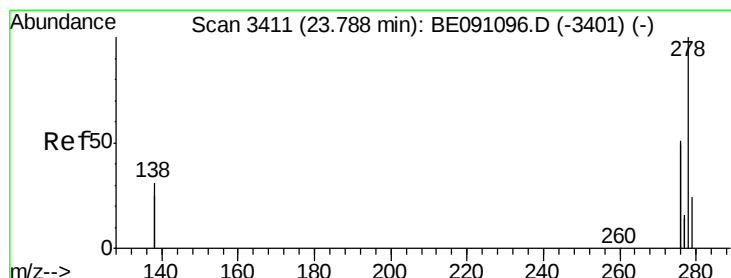
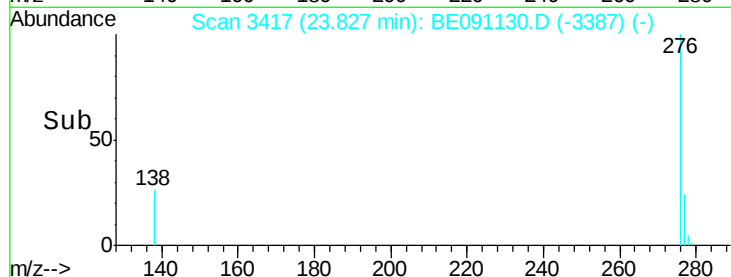
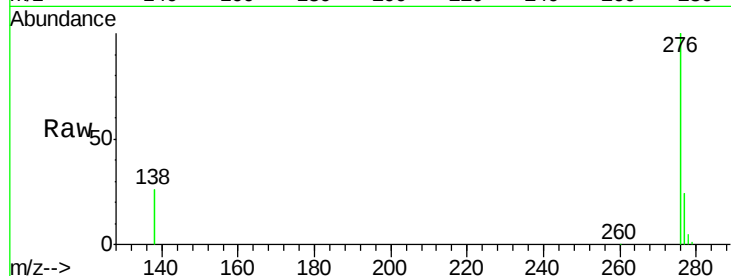
Tgt Ion:276 Resp: 109497

Ion Ratio Lower Upper

276 100

138 20.1 27.5 41.3#

277 19.4 19.3 28.9



#27

Dibenzo(a,h)anthracene

Concen: 0.38 ng/ul

RT: 23.79 min Scan# 3411

Delta R.T. -0.00 min

Lab File: BE091130.D

Acq: 12 Nov 2015 2:59

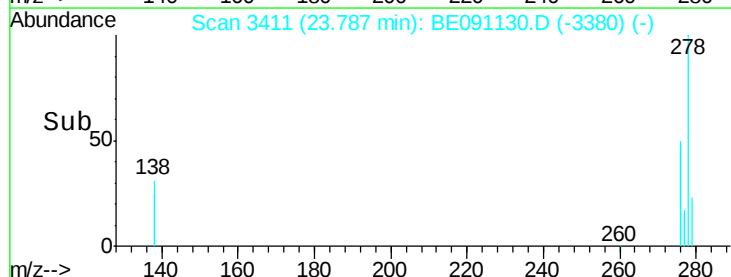
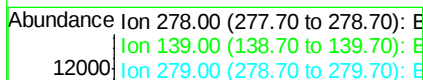
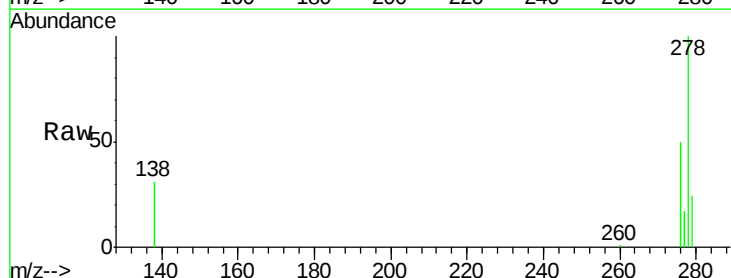
Tgt Ion:278 Resp: 21554

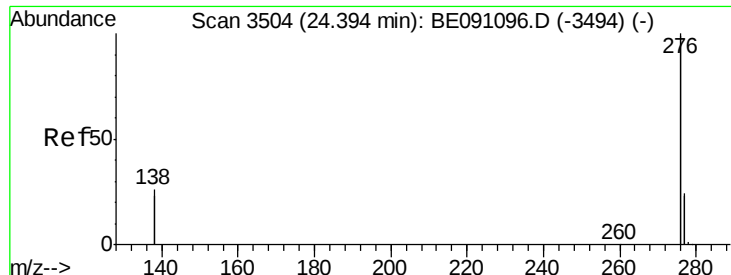
Ion Ratio Lower Upper

278 100

139 0.0 21.7 32.5#

279 24.1 21.9 32.9





#28

Benzo(g,h,i)perylene

Concen: 0.38 ng/ul

RT: 24.39 min Scan# 3504

Delta R.T. -0.00 min

Lab File: BE091130.D

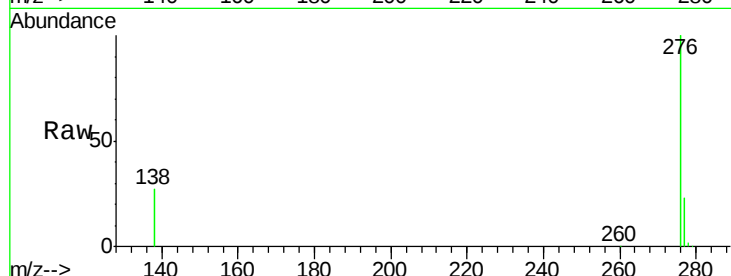
Acq: 12 Nov 2015 2:59

Instrument :

BNA\_E

ClientSampleId :

SSTD0.494



Tgt Ion: 276 Resp: 94639

Ion Ratio Lower Upper

276 100

277 23.4 21.3 31.9

138 27.1 25.5 38.3

