

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111015\  
 Data File : BE091098.D  
 Acq On : 10 Nov 2015 17:04  
 Operator : UM/NP  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTD0.491

Quant Time: Nov 13 14:05:12 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  | 3634     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 9.57  | 136  | 19645    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 13.40 | 164  | 10815    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 16.14 | 188  | 25781    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 20.28 | 240  | 26446    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 22.19 | 264  | 23590    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |      |
|-----------------------------|-------|-----|-------|------|-------|------|
| System Monitoring Compounds |       |     |       |      |       |      |
| 2) 1,4-Dioxane-d8           | 2.95  | 96  | 4400  | 1.68 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10  | 11.08 | 152 | 10547 | 0.39 | ng/ul | 0.00 |
| 16) Fluoranthene-d10        | 18.13 | 212 | 25686 | 0.35 | ng/ul | 0.00 |

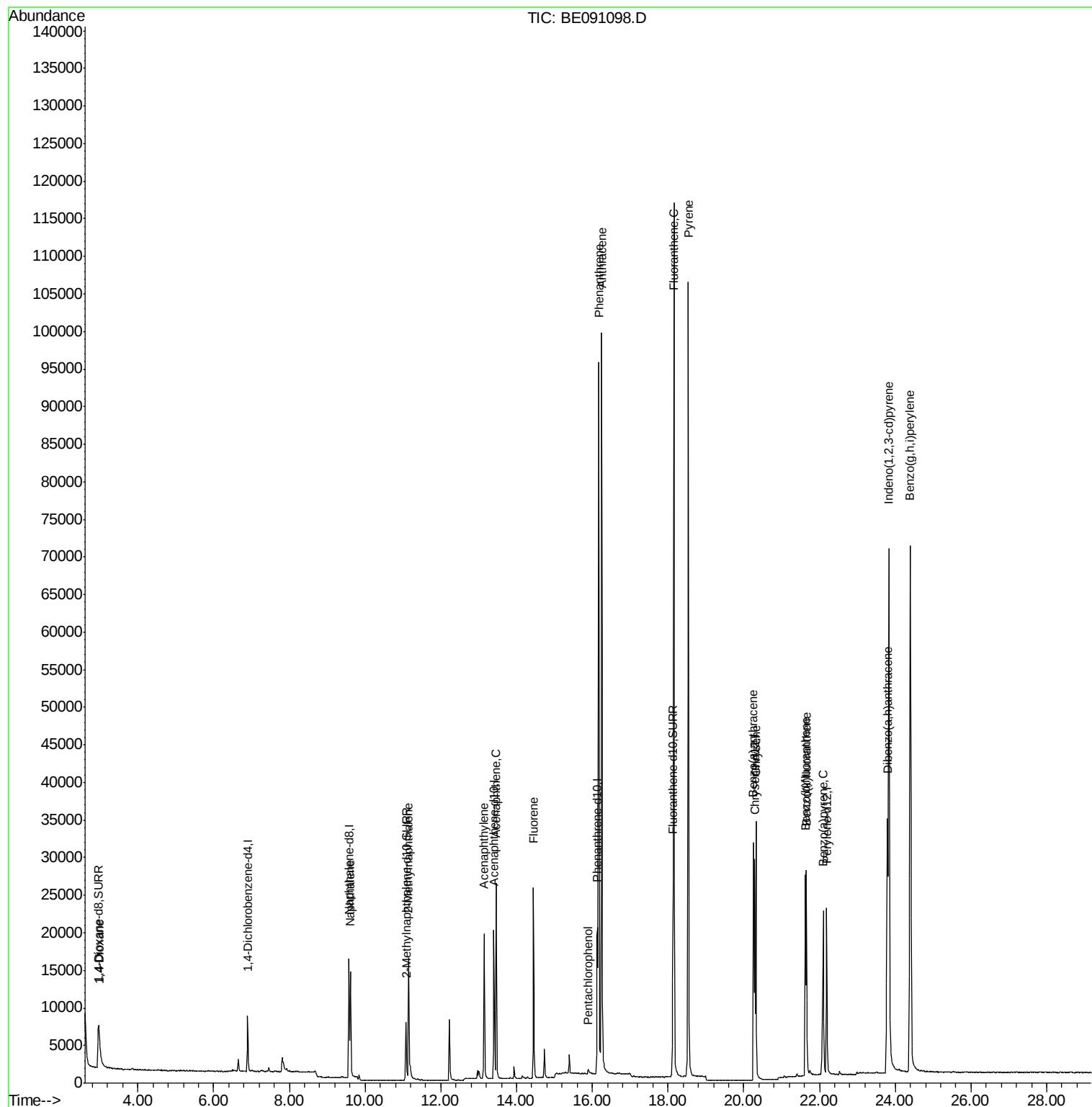
|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Qvalue |        |    |
| 3) 1,4-Dioxane             | 2.98  | 88  | 4978   | 1.68   | ng/ul# | 66 |
| 5) Naphthalene             | 9.62  | 128 | 18544  | 0.38   | ng/ul  | 98 |
| 7) 2-Methylnaphthalene     | 11.15 | 142 | 15781  | 0.50   | ng/ul  | 85 |
| 9) Acenaphthylene          | 13.15 | 152 | 20766  | 0.38   | ng/ul  | 98 |
| 10) Acenaphthene           | 13.46 | 153 | 14239  | 0.39   | ng/ul  | 90 |
| 11) Fluorene               | 14.45 | 166 | 17008  | 0.36   | ng/ul  | 94 |
| 13) Pentachlorophenol      | 15.89 | 266 | 670    | 0.27   | ng/ul  | 92 |
| 14) Phenanthrene           | 16.17 | 178 | 113706 | 0.38   | ng/ul  | 96 |
| 15) Anthracene             | 16.25 | 178 | 107603 | 0.40   | ng/ul  | 98 |
| 17) Fluoranthene           | 18.15 | 202 | 124713 | 0.36   | ng/ul  | 88 |
| 19) Pyrene                 | 18.54 | 202 | 117656 | 0.39   | ng/ul# | 79 |
| 20) Benzo(a)anthracene     | 20.26 | 228 | 25779  | 0.38   | ng/ul  | 98 |
| 21) Chrysene               | 20.32 | 228 | 29368  | 0.38   | ng/ul  | 96 |
| 23) Benzo(b)fluoranthene   | 21.63 | 252 | 27536  | 0.37   | ng/ul  | 93 |
| 24) Benzo(k)fluoranthene   | 21.65 | 252 | 27936  | 0.37   | ng/ul  | 94 |
| 25) Benzo(a)pyrene         | 22.09 | 252 | 26186  | 0.39   | ng/ul# | 92 |
| 26) Indeno(1,2,3-cd)pyrene | 23.83 | 276 | 128674 | 0.45   | ng/ul# | 81 |
| 27) Dibenzo(a,h)anthracene | 23.79 | 278 | 25643  | 0.38   | ng/ul# | 71 |
| 28) Benzo(g,h,i)perylene   | 24.39 | 276 | 111562 | 0.37   | ng/ul  | 93 |

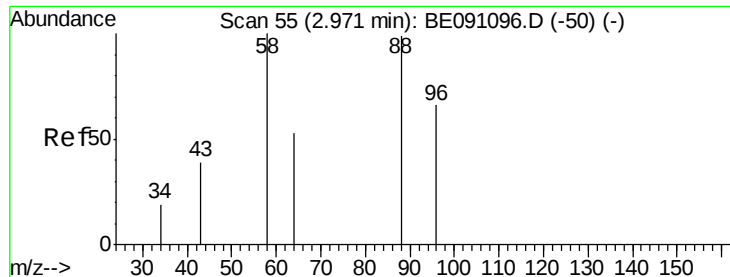
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
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SSTD0.491

Quant Time: Nov 13 14:05:12 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: 1.68 ng/ul

RT: 2.98 min Scan# 56

Delta R.T. 0.01 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

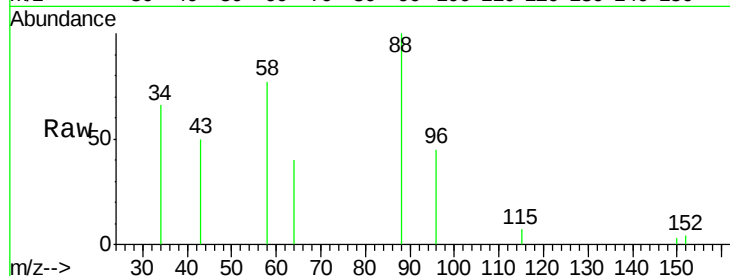
Tgt Ion: 88 Resp: 4978

Ion Ratio Lower Upper

88 100

58 101.4 55.4 83.2#

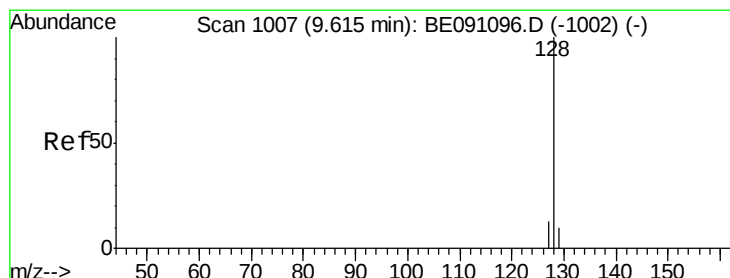
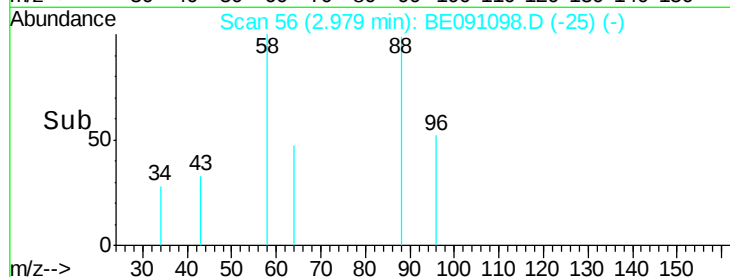
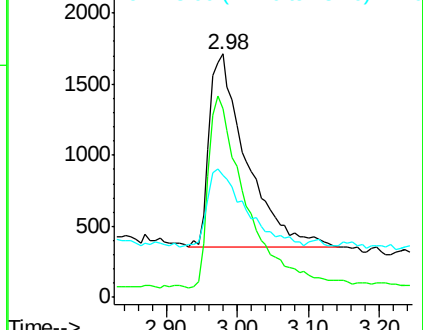
43 41.7 24.2 36.2#



Abundance Ion 88.00 (87.70 to 88.70): BE091096.D (-50) (-)

Ion 58.00 (57.70 to 58.70): BE091096.D (-50) (-)

Ion 43.00 (42.70 to 43.70): BE091096.D (-50) (-)



#5

Naphthalene

Concen: 0.38 ng/ul

RT: 9.62 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

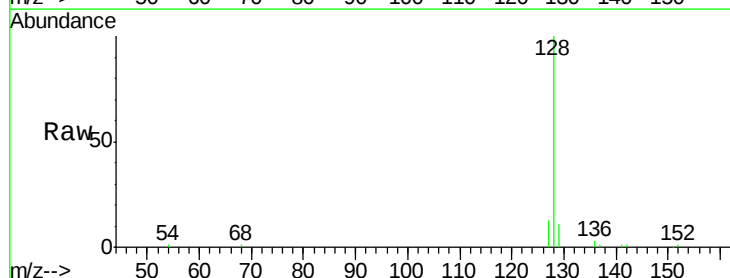
Tgt Ion: 128 Resp: 18544

Ion Ratio Lower Upper

128 100

129 10.9 9.8 14.8

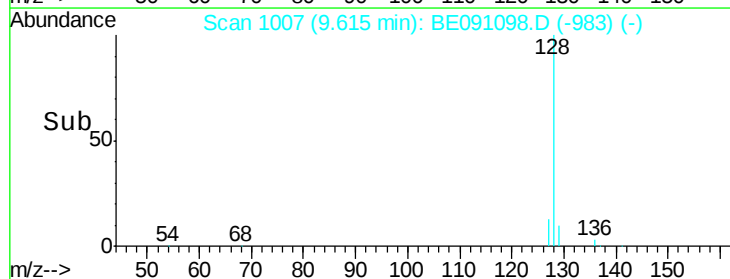
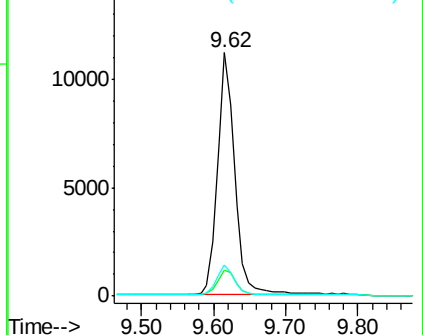
127 13.0 10.7 16.1

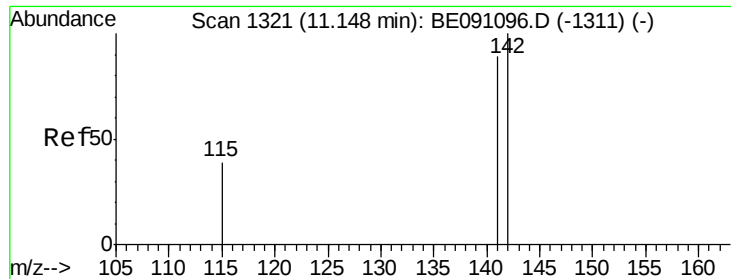


Abundance Ion 128.00 (127.70 to 128.70): BE091096.D (-1002) (-)

Ion 129.00 (128.70 to 129.70): BE091096.D (-1002) (-)

Ion 127.00 (126.70 to 127.70): BE091096.D (-1002) (-)





#7

2-Methylnaphthalene

Concen: 0.50 ng/ul

RT: 11.15 min Scan# 1321

Delta R.T. -0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

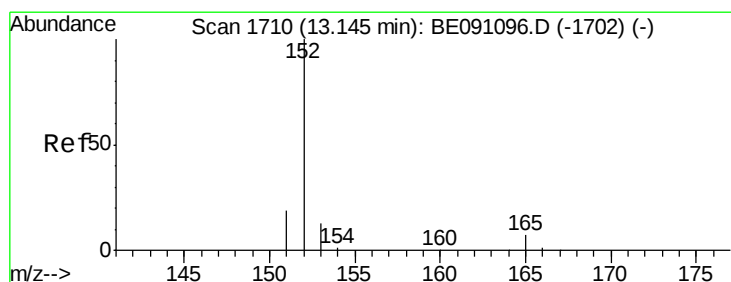
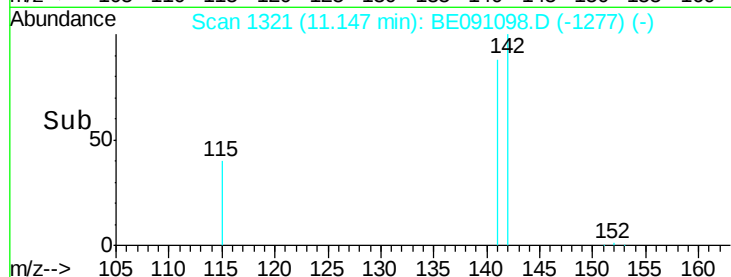
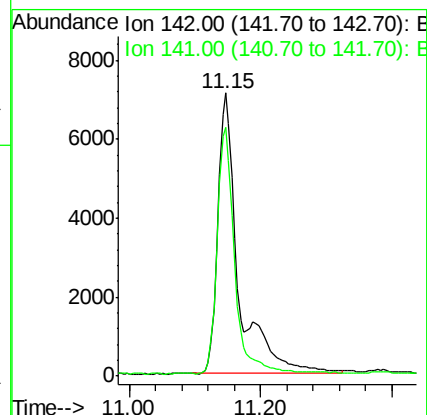
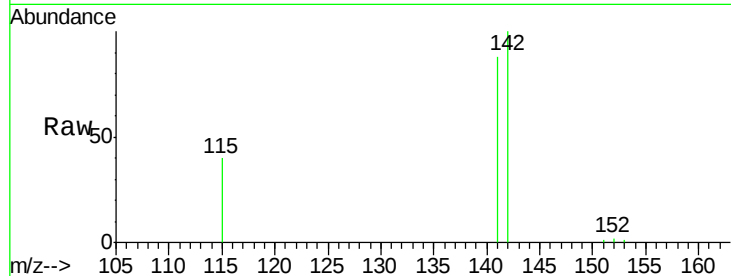
SSTD0.491

Tgt Ion:142 Resp: 15781

Ion Ratio Lower Upper

142 100

141 74.3 70.3 105.5



#9

Acenaphthylene

Concen: 0.38 ng/ul

RT: 13.15 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

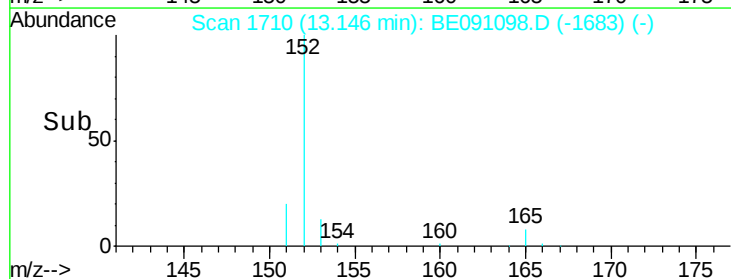
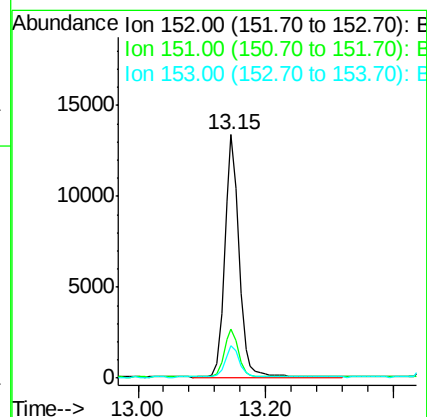
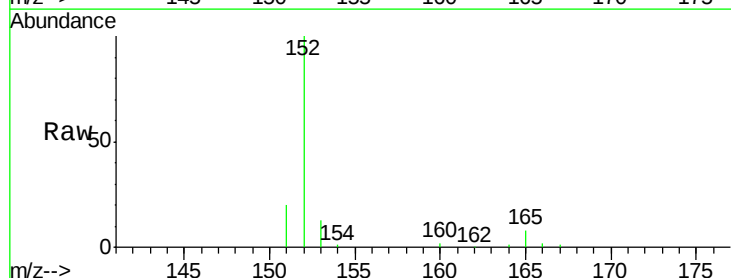
Tgt Ion:152 Resp: 20766

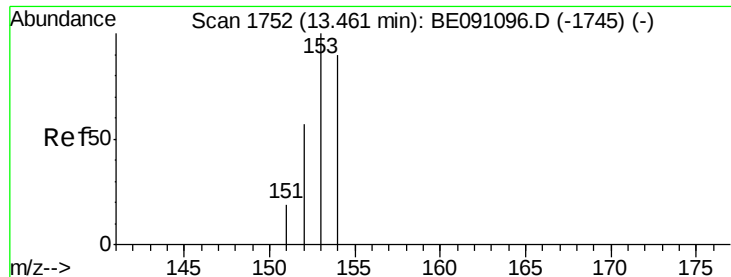
Ion Ratio Lower Upper

152 100

151 20.3 16.8 25.2

153 13.5 11.3 16.9





#10

Acenaphthene

Concen: 0.39 ng/ul

RT: 13.46 min Scan# 1752

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

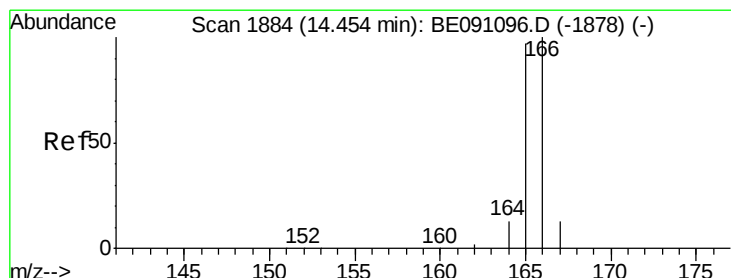
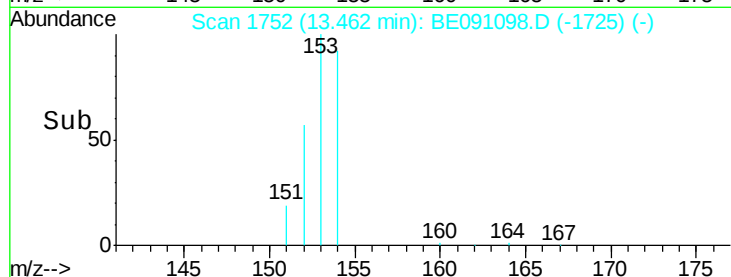
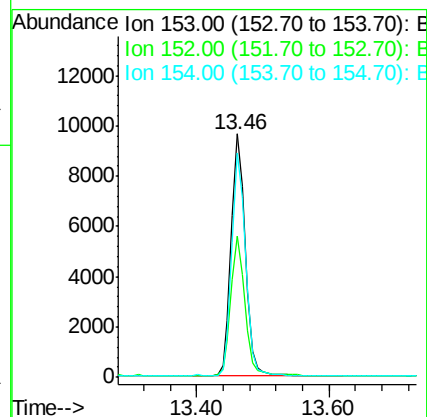
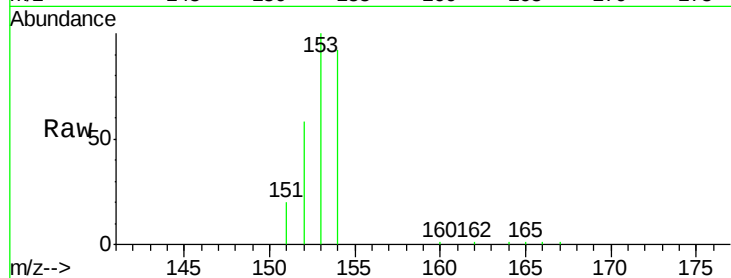
Tgt Ion:153 Resp: 14239

Ion Ratio Lower Upper

153 100

152 58.0 42.3 63.5

154 92.0 64.7 97.1



#11

Fluorene

Concen: 0.36 ng/ul

RT: 14.45 min Scan# 1883

Delta R.T. -0.01 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

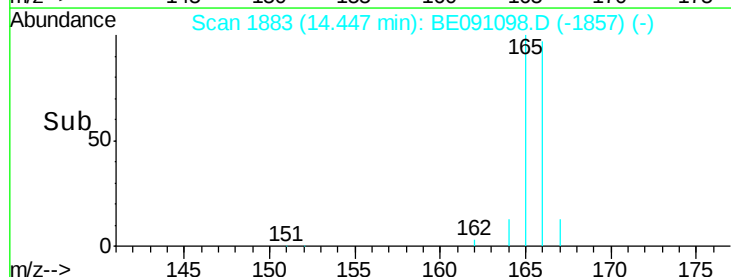
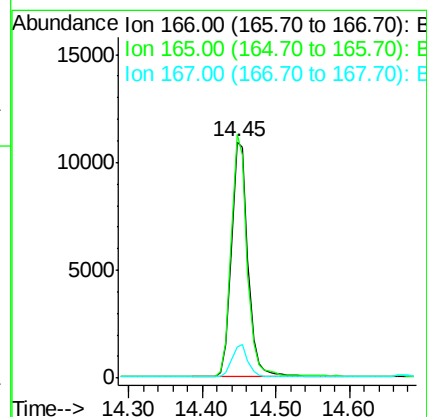
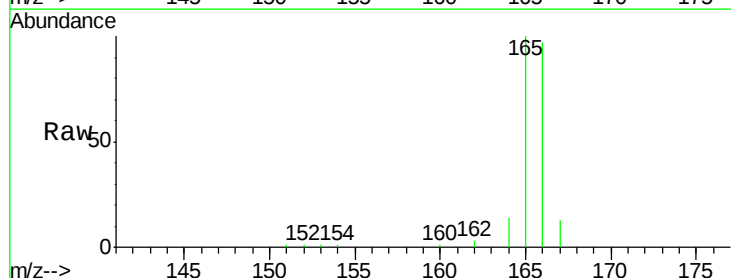
Tgt Ion:166 Resp: 17008

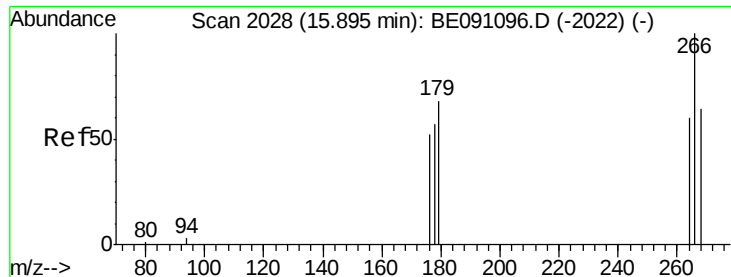
Ion Ratio Lower Upper

166 100

165 102.9 87.6 131.4

167 13.4 11.1 16.7

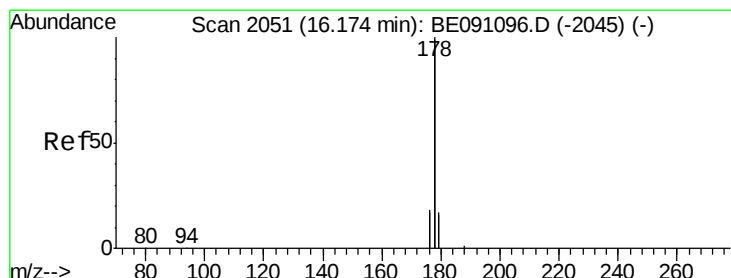
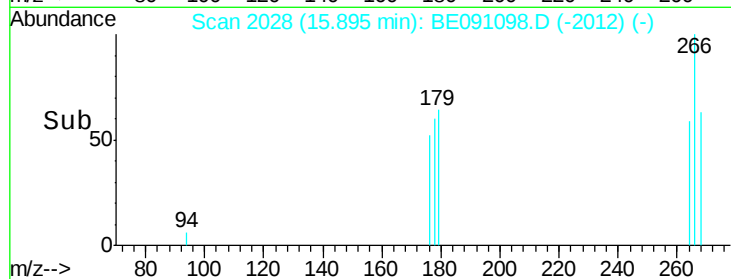
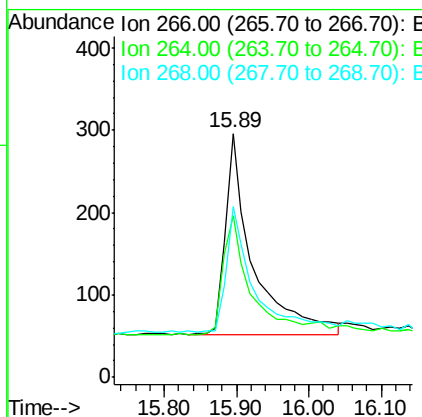
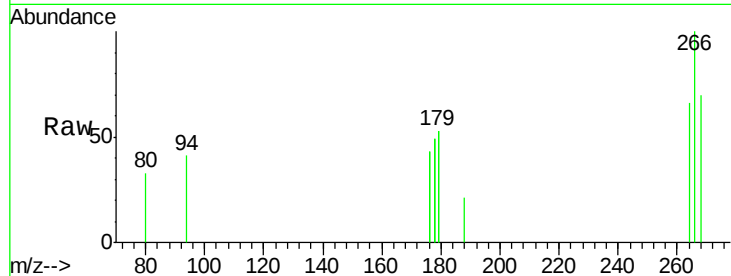




#13  
 Pentachlorophenol  
 Concen: 0.27 ng/ul  
 RT: 15.89 min Scan# 2028  
 Delta R.T. -0.00 min  
 Lab File: BE091098.D  
 Acq: 10 Nov 2015 17:04

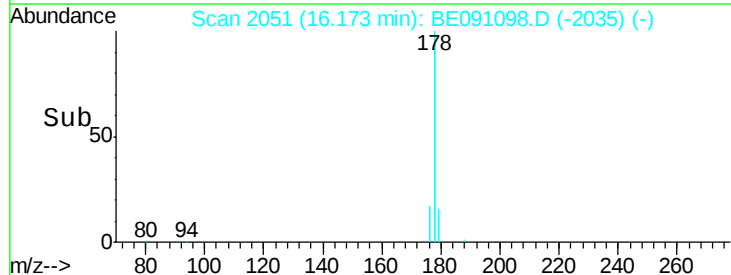
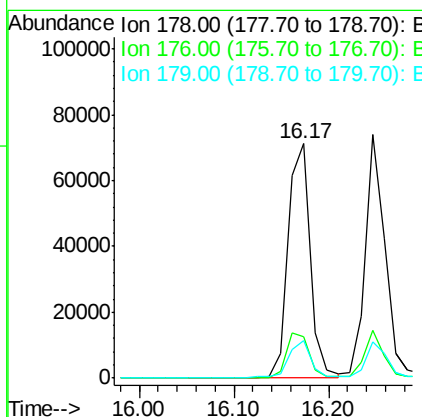
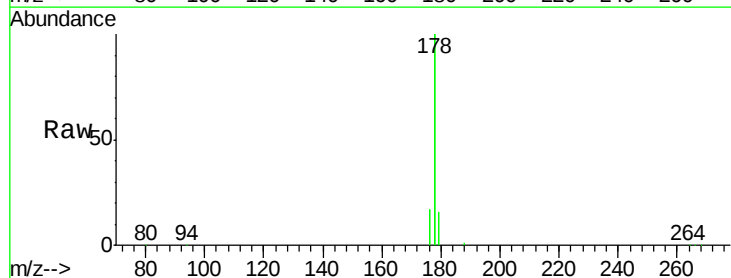
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST00.491

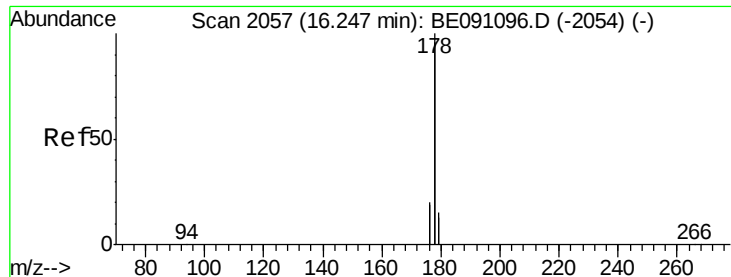
Tgt Ion: 266 Resp: 670  
 Ion Ratio Lower Upper  
 266 100  
 264 60.0 53.5 80.3  
 268 61.6 54.2 81.2



#14  
 Phenanthrene  
 Concen: 0.38 ng/ul  
 RT: 16.17 min Scan# 2051  
 Delta R.T. -0.00 min  
 Lab File: BE091098.D  
 Acq: 10 Nov 2015 17:04

Tgt Ion: 178 Resp: 113706  
 Ion Ratio Lower Upper  
 178 100  
 176 17.5 16.2 24.4  
 179 16.2 12.8 19.2





#15

Anthracene

Concen: 0.40 ng/ul

RT: 16.25 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

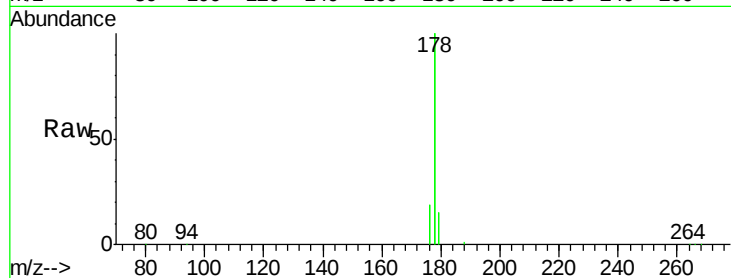
Tgt Ion:178 Resp: 107603

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

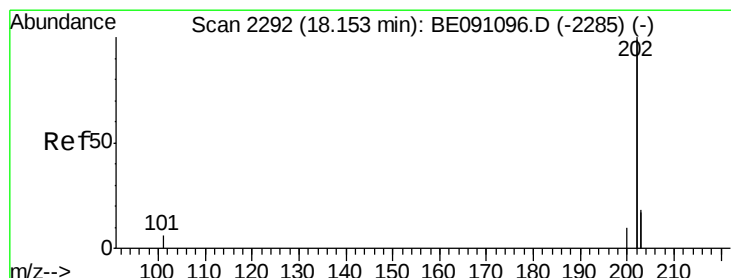
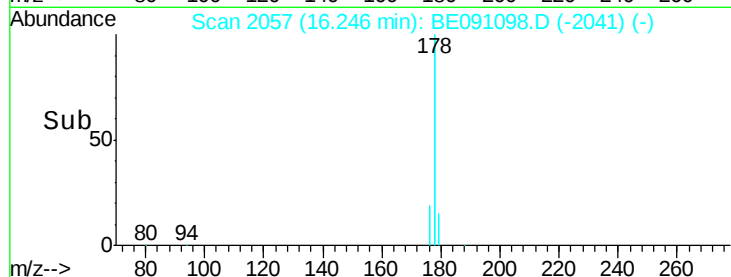
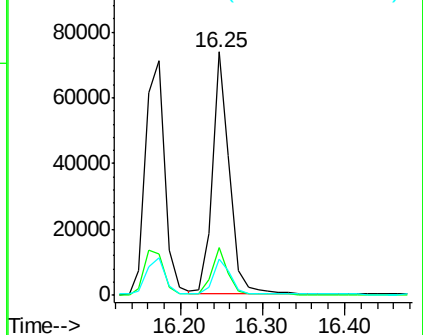
179 14.7 13.3 19.9



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



#17

Fluoranthene

Concen: 0.36 ng/ul

RT: 18.15 min Scan# 2292

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

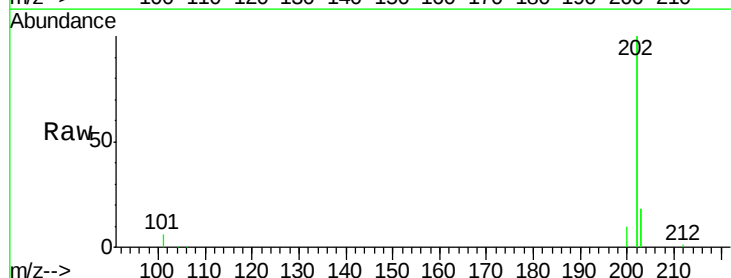
Tgt Ion:202 Resp: 124713

Ion Ratio Lower Upper

202 100

101 3.0 0.0 33.1

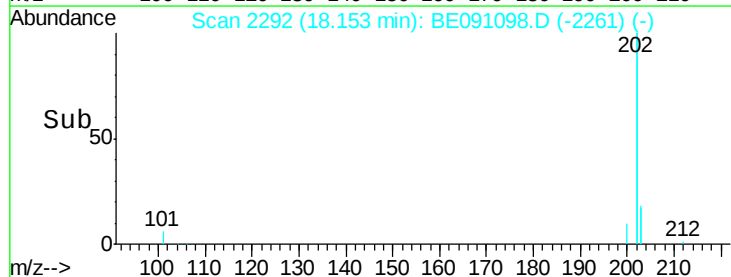
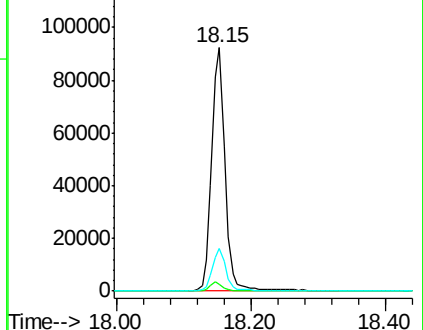
203 17.8 0.0 37.2

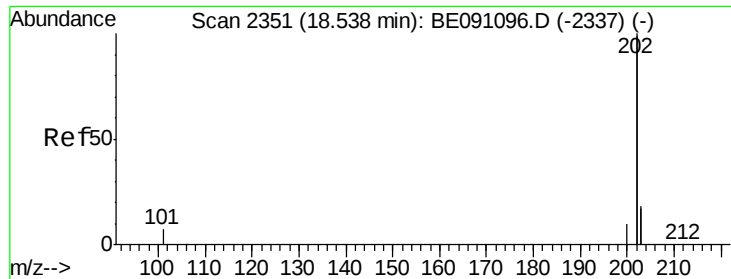


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Pyrene

Concen: 0.39 ng/ul

RT: 18.54 min Scan# 2351

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

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BNA\_E

ClientSampleId :

SSTD0.491

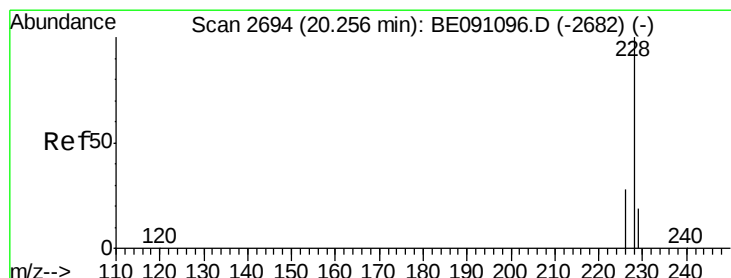
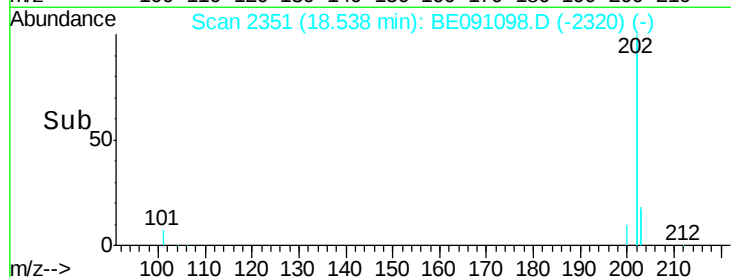
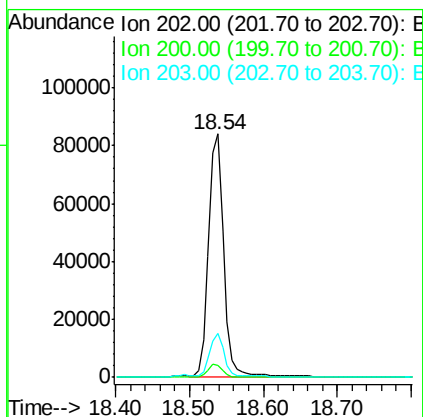
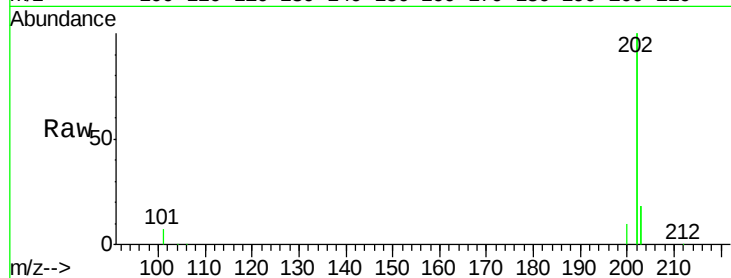
Tgt Ion:202 Resp: 117656

Ion Ratio Lower Upper

202 100

200 5.0 18.0 27.0#

203 17.9 13.8 20.6



#20

Benzo(a)anthracene

Concen: 0.38 ng/ul

RT: 20.26 min Scan# 2694

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

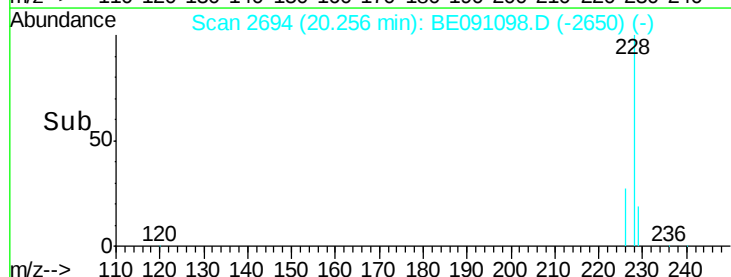
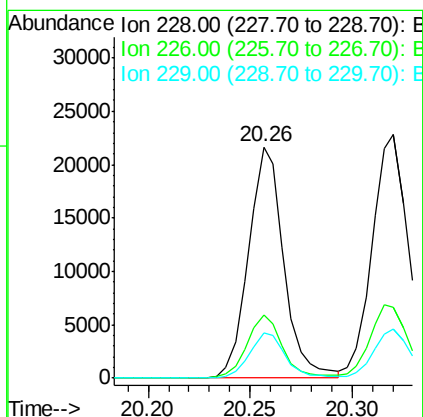
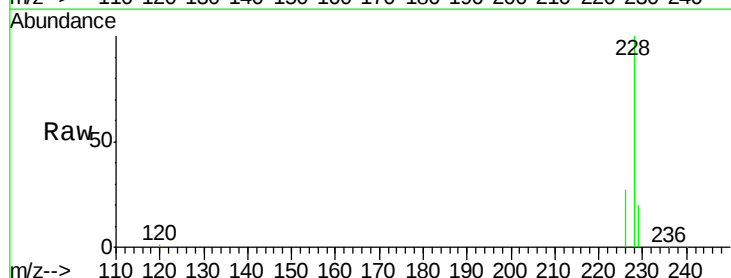
Tgt Ion:228 Resp: 25779

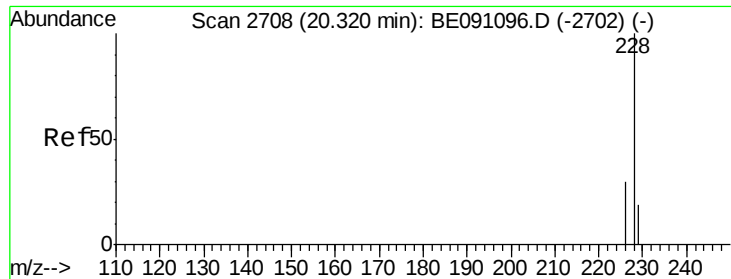
Ion Ratio Lower Upper

228 100

226 27.5 23.0 34.4

229 19.5 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: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

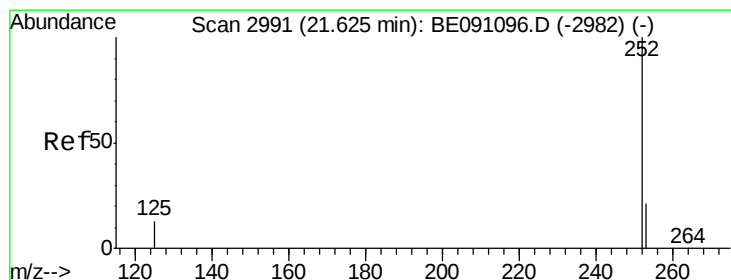
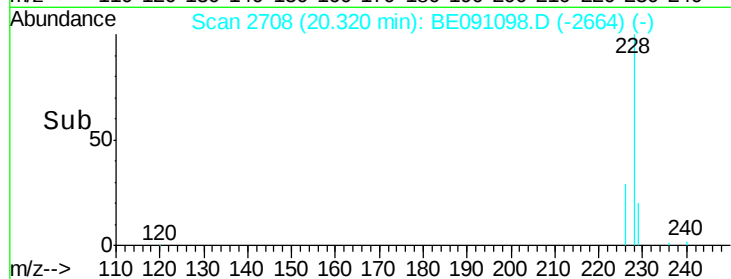
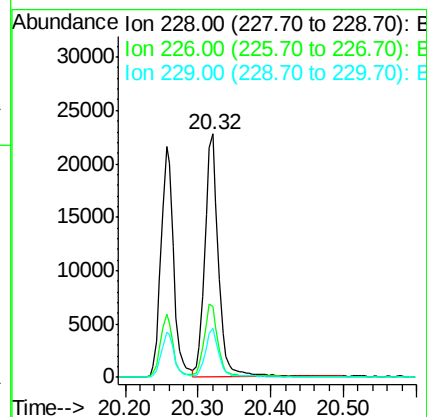
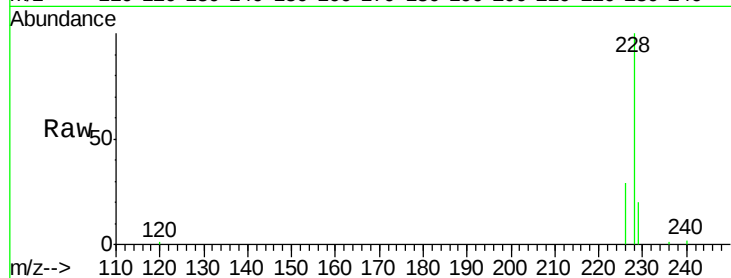
Tgt Ion:228 Resp: 29368

Ion Ratio Lower Upper

228 100

226 29.2 25.7 38.5

229 19.9 15.2 22.8



#23

Benzo(b)fluoranthene

Concen: 0.37 ng/ul

RT: 21.63 min Scan# 2991

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

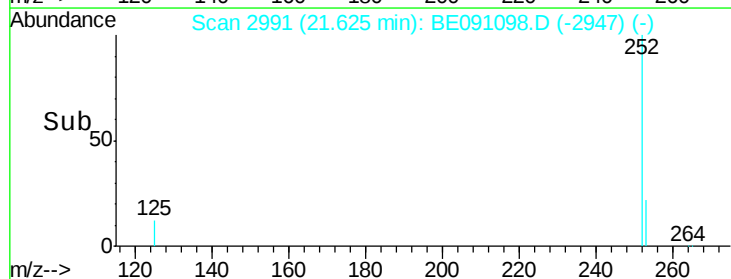
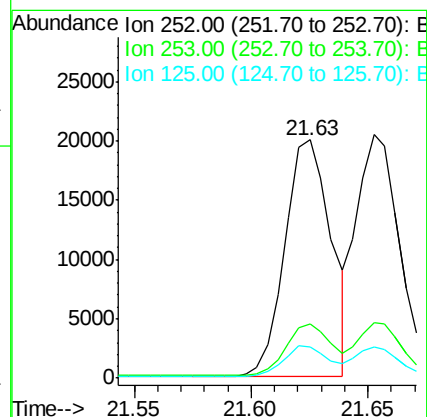
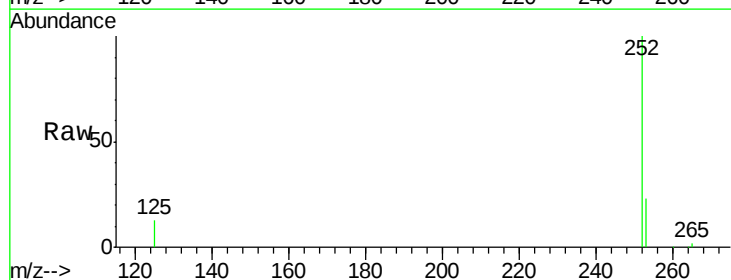
Tgt Ion:252 Resp: 27536

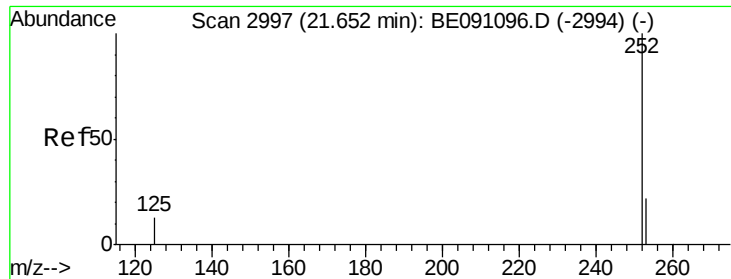
Ion Ratio Lower Upper

252 100

253 22.7 0.0 48.0

125 13.1 0.0 36.6





#24

Benzo(k)fluoranthene

Concen: 0.37 ng/ul

RT: 21.65 min Scan# 2997

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

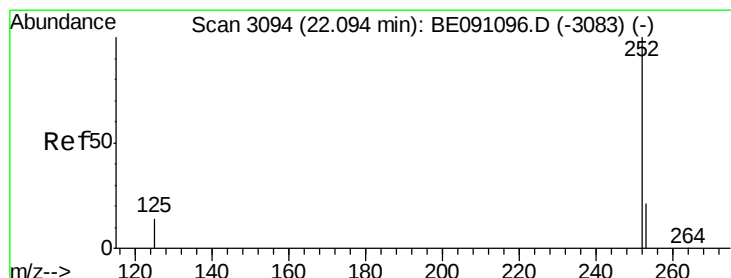
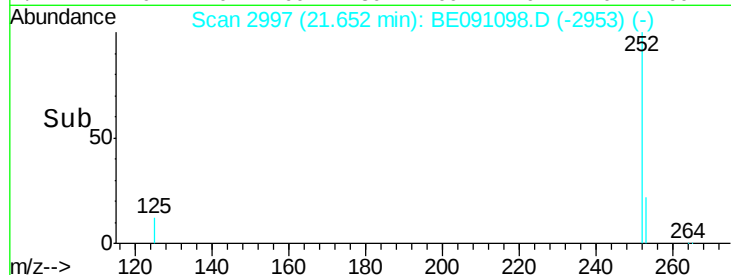
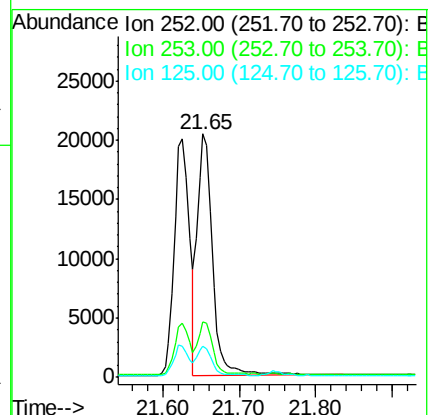
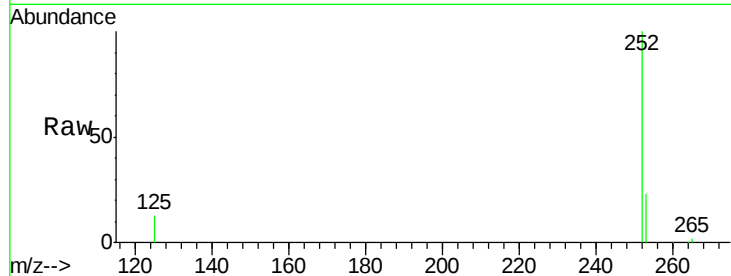
Tgt Ion:252 Resp: 27936

Ion Ratio Lower Upper

252 100

253 22.7 20.8 31.2

125 13.0 12.2 18.4



#25

Benzo(a)pyrene

Concen: 0.39 ng/ul

RT: 22.09 min Scan# 3094

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

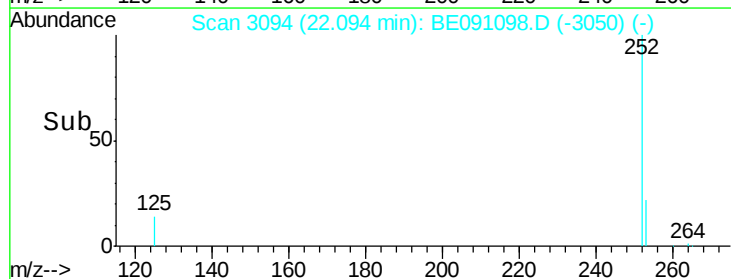
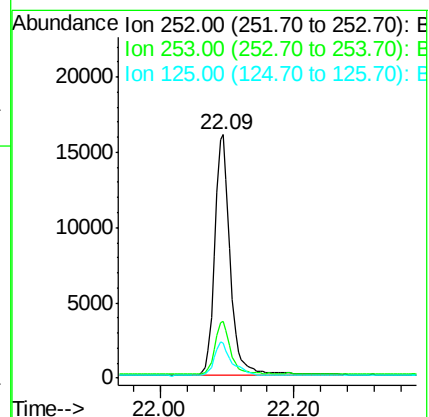
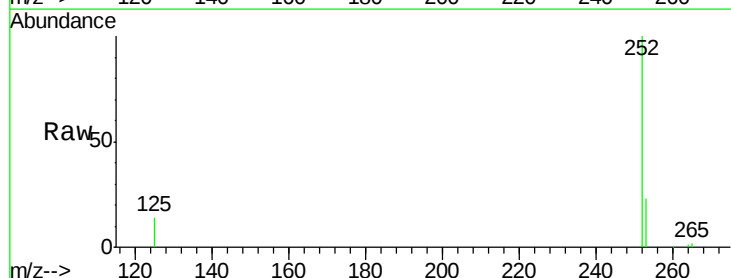
Tgt Ion:252 Resp: 26186

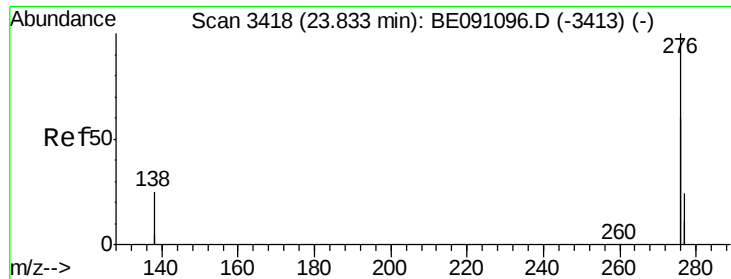
Ion Ratio Lower Upper

252 100

253 23.5 21.8 32.8

125 14.5 14.5 21.7#





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.45 ng/ul

RT: 23.83 min Scan# 3418

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

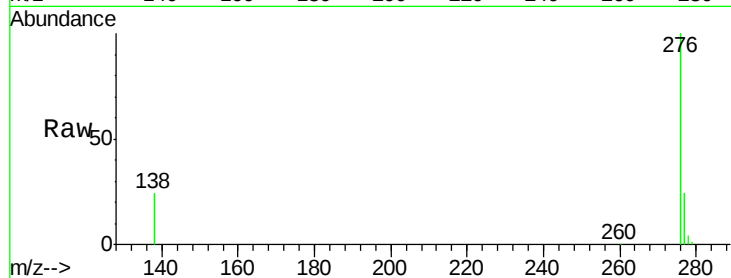
Tgt Ion:276 Resp: 128674

Ion Ratio Lower Upper

276 100

138 19.6 27.5 41.3#

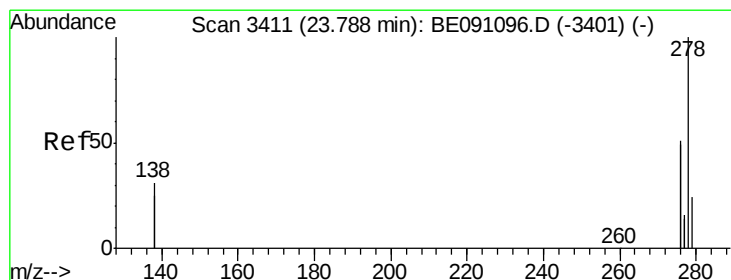
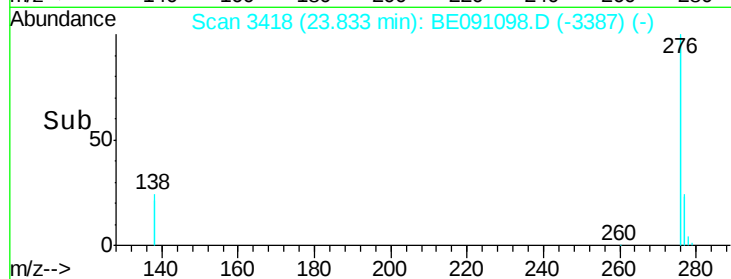
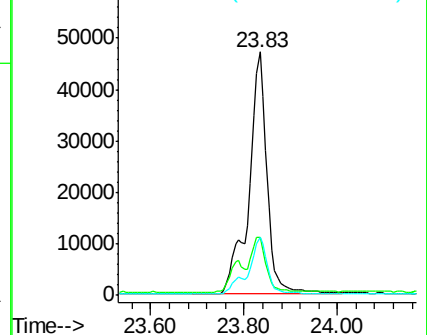
277 19.5 19.3 28.9



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: 0.38 ng/ul

RT: 23.79 min Scan# 3411

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

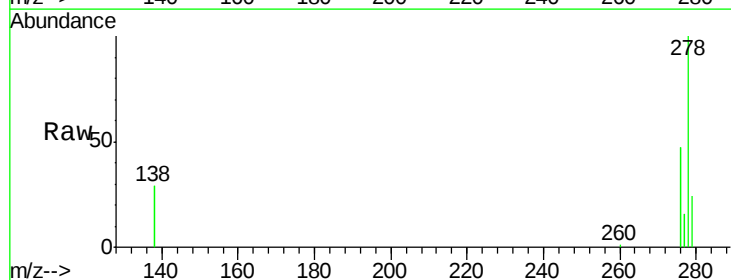
Tgt Ion:278 Resp: 25643

Ion Ratio Lower Upper

278 100

139 0.0 21.7 32.5#

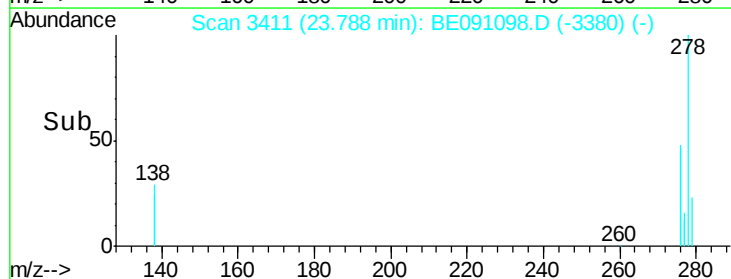
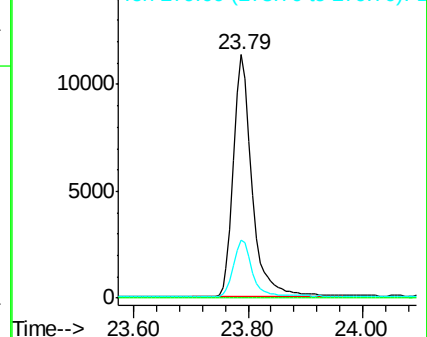
279 23.8 21.9 32.9

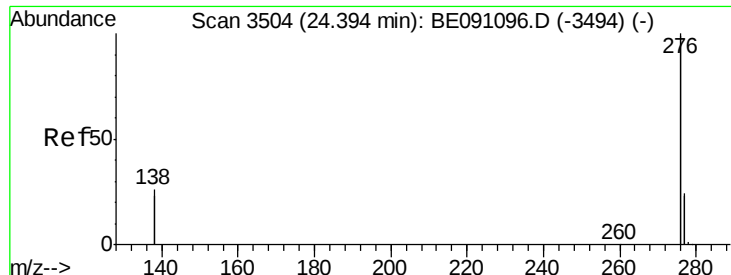


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(g,h,i)perylene

Concen: 0.37 ng/ul

RT: 24.39 min Scan# 3504

Delta R.T. 0.00 min

Lab File: BE091098.D

Acq: 10 Nov 2015 17:04

Instrument :

BNA\_E

ClientSampleId :

SSTD0.491

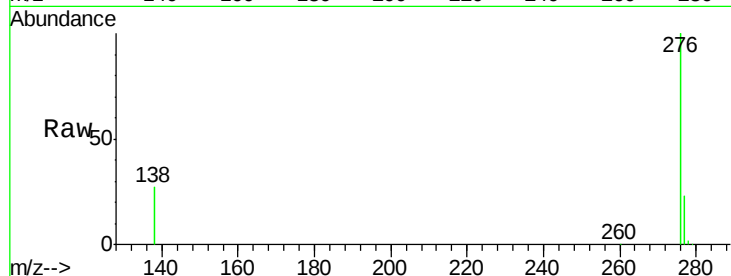
Tgt Ion: 276 Resp: 111562

Ion Ratio Lower Upper

276 100

277 23.3 21.3 31.9

138 27.3 25.5 38.3



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

