

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\  
 Data File : BE091250.D  
 Acq On : 20 Nov 2015 17:51  
 Operator : UM/NP  
 Sample : G4320-05  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J74

Quant Time: Nov 21 02:53:56 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 : Sat Nov 21 02:52:22 2015  
 Response via : Initial Calibration

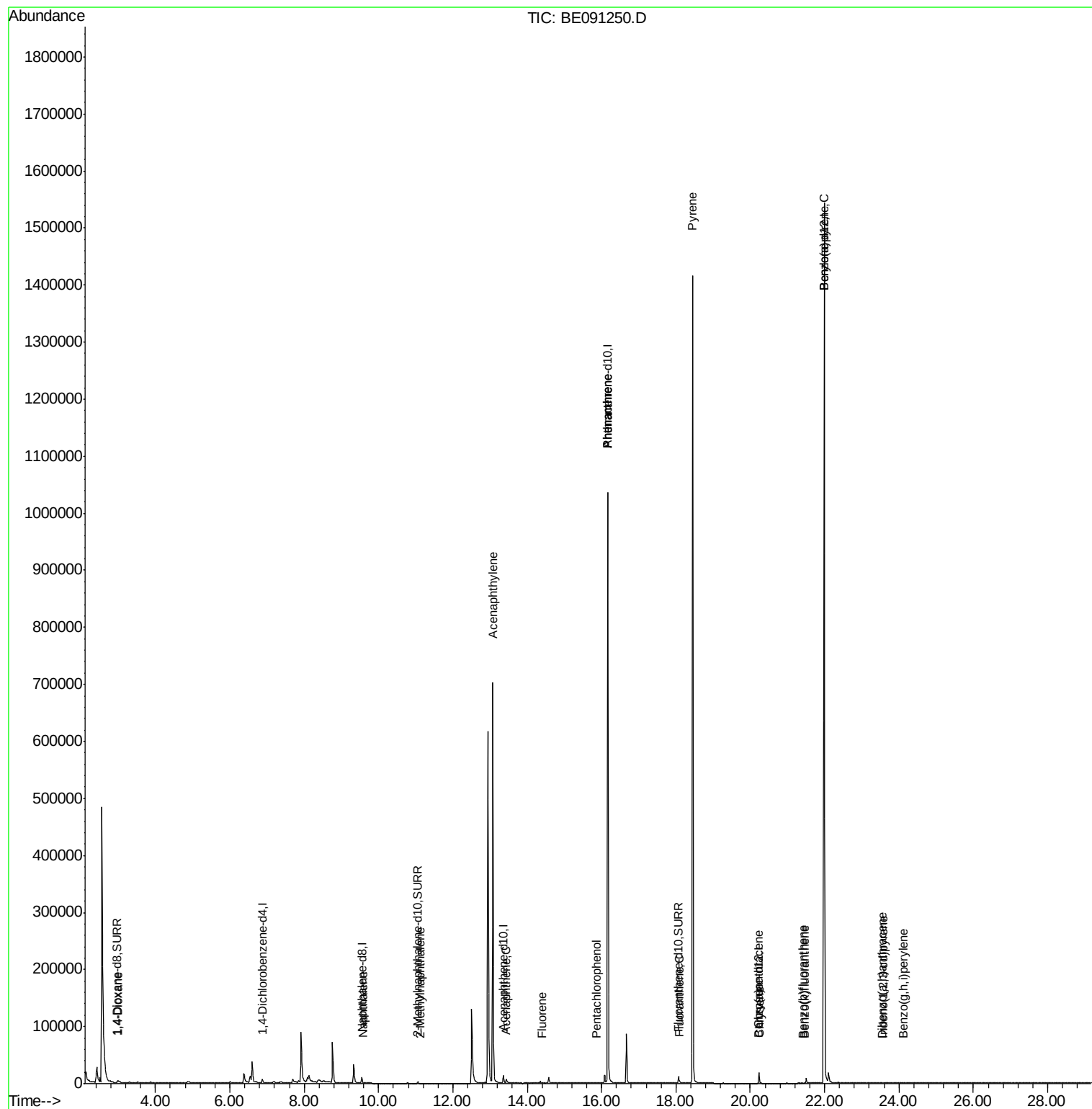
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 2788     | 0.40   | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 9.55  | 136  | 13699    | 0.40   | ng/ul  | -0.03    |
| 8) Acenaphthene-d10         | 13.36 | 164  | 7296     | 0.40   | ng/ul  | -0.02    |
| 12) Phenanthrene-d10        | 16.16 | 188  | 1236471  | 0.40   | ng/ul  | 0.07     |
| 18) Chrysene-d12            | 20.23 | 240  | 18349    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 21.99 | 264  | 1572204  | 0.40   | ng/ul  | -0.13    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 2.97  | 96   | 5253     | 2.62   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.06 | 152  | 4928     | 0.26   | ng/ul  | -0.01    |
| 16) Fluoranthene-d10        | 18.07 | 212  | 13933    | 0.00   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) 1,4-Dioxane              | 2.99  | 88   | 113      | 0.05   | ng/ul# | 71       |
| 5) Naphthalene              | 9.59  | 128  | 1334     | 0.04   | ng/ul# | 74       |
| 7) 2-Methylnaphthalene      | 11.12 | 142  | 317      | 0.01   | ng/ul# | 79       |
| 9) Acenaphthylene           | 13.07 | 152  | 218      | 0.01   | ng/ul# | 1        |
| 10) Acenaphthene            | 13.45 | 153  | 2612     | 0.10   | ng/ul# | 40       |
| 11) Fluorene                | 14.41 | 166  | 182      | 0.01   | ng/ul# | 81       |
| 13) Pentachlorophenol       | 15.86 | 266  | 235      | 0.00   | ng/ul  | 92       |
| 14) Phenanthrene            | 16.16 | 178  | 3825     | 0.00   | ng/ul# | 1        |
| 15) Anthracene              | 16.16 | 178  | 3746     | 0.00   | ng/ul# | 1        |
| 17) Fluoranthene            | 18.09 | 202  | 5564     | 0.00   | ng/ul  | 81       |
| 19) Pyrene                  | 18.45 | 202  | 15409    | 0.07   | ng/ul# | 1        |
| 20) Benzo(a)anthracene      | 20.21 | 228  | 609      | 0.01   | ng/ul# | 80       |
| 21) Chrysene                | 20.27 | 228  | 895      | 0.02   | ng/ul# | 83       |
| 23) Benzo(b)fluoranthene    | 21.42 | 252  | 35       | 0.00   | ng/ul# | 1        |
| 24) Benzo(k)fluoranthene    | 21.47 | 252  | 14       | 0.00   | ng/ul# | 1        |
| 25) Benzo(a)pyrene          | 21.99 | 252  | 5997     | 0.00   | ng/ul# | 65       |
| 26) Indeno(1,2,3-cd)pyrene  | 23.58 | 276  | 38       | 0.00   | ng/ul# | 1        |
| 27) Dibenzo(a,h)anthracene  | 23.55 | 278  | 37       | 0.00   | ng/ul# | 1        |
| 28) Benzo(g,h,i)perylene    | 24.11 | 276  | 13       | 0.00   | ng/ul# | 1        |

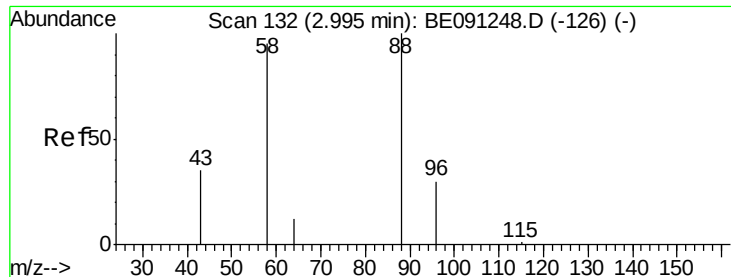
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\  
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Instrument :  
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A4J74

Quant Time: Nov 21 02:53:56 2015  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
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QLast Update : Sat Nov 21 02:52:22 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.05 ng/ul

RT: 2.99 min Scan# 131

Delta R.T. -0.01 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

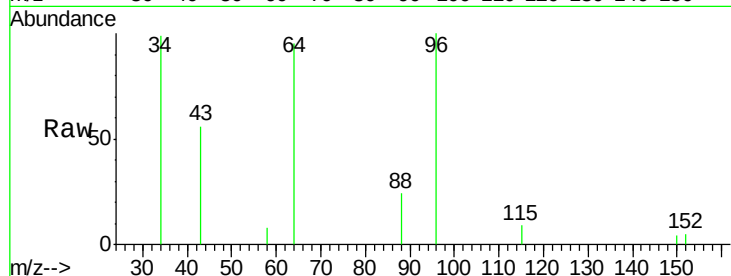
Tot Ion: 88 Resp: 113

Ion Ratio Lower Upper

88 100

58 83.2 55.4 83.2#

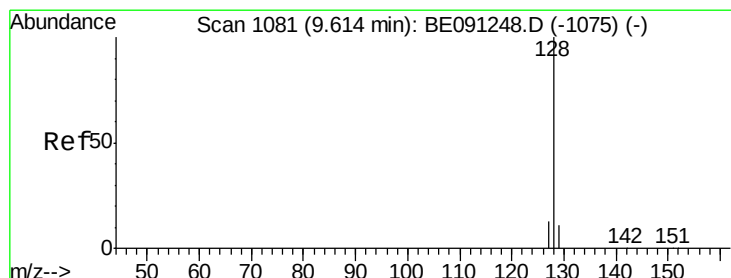
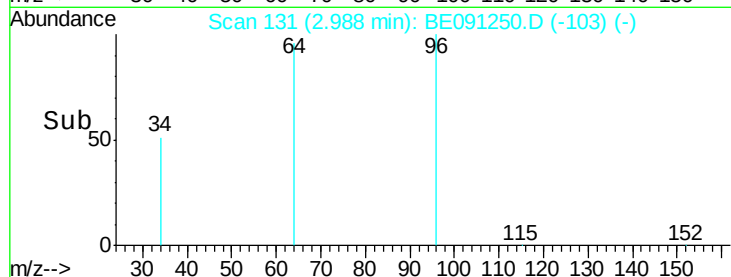
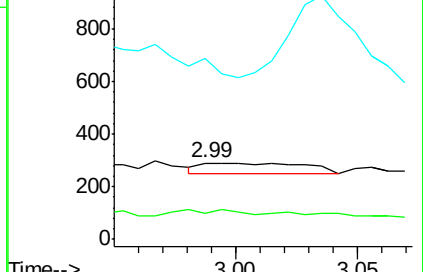
43 0.0 24.2 36.2#



Abundance Ion 88.00 (87.70 to 88.70): BE091248.D (-126) (-)

Ion 58.00 (57.70 to 58.70): BE091248.D (-126) (-)

Ion 43.00 (42.70 to 43.70): BE091248.D (-126) (-)



#5

Naphthalene

Concen: 0.04 ng/ul

RT: 9.59 min Scan# 1078

Delta R.T. -0.03 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

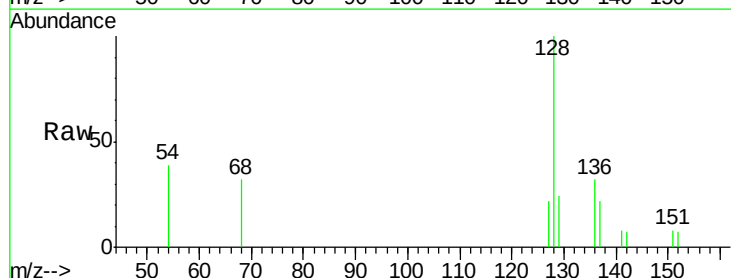
Tgt Ion: 128 Resp: 1334

Ion Ratio Lower Upper

128 100

129 24.4 9.8 14.8#

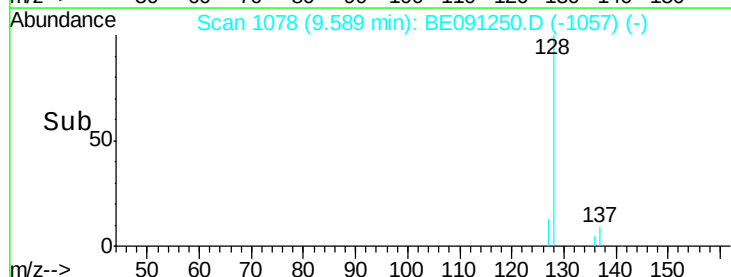
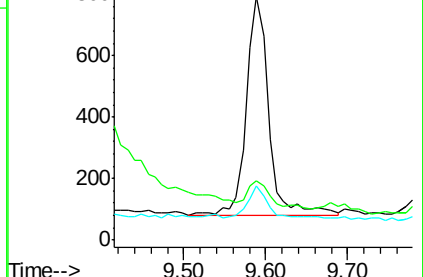
127 22.1 10.7 16.1#

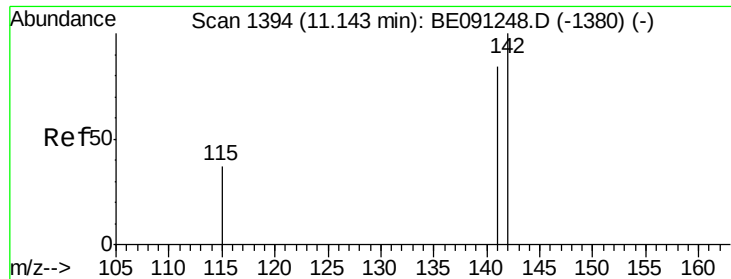


Abundance Ion 128.00 (127.70 to 128.70): BE091248.D (-1075) (-)

Ion 129.00 (128.70 to 129.70): BE091248.D (-1075) (-)

Ion 127.00 (126.70 to 127.70): BE091248.D (-1075) (-)





#7

2-Methylnaphthalene

Concen: 0.01 ng/ul

RT: 11.12 min Scan# 1390

Delta R.T. -0.02 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampled :

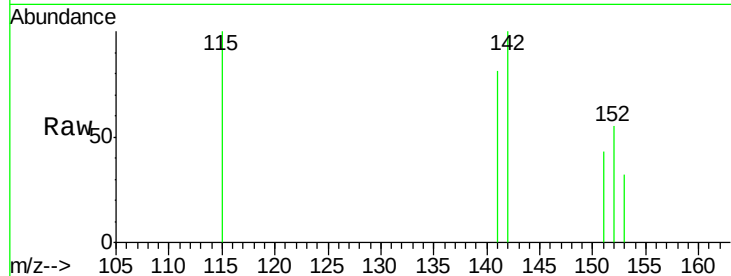
A4J74

Tot Ion:142 Resp: 317

Ion Ratio Lower Upper

142 100

141 68.8 70.3 105.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

11.12

200

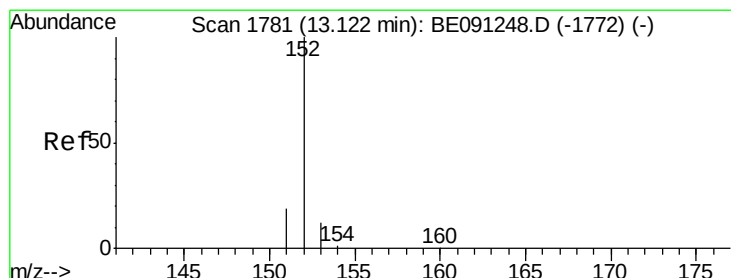
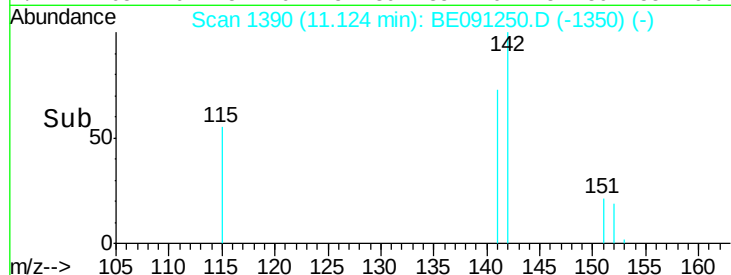
150

100

50

0

Time--> 11.00 11.10 11.20



#9

Acenaphthylene

Concen: 0.01 ng/ul

RT: 13.07 min Scan# 1774

Delta R.T. -0.05 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

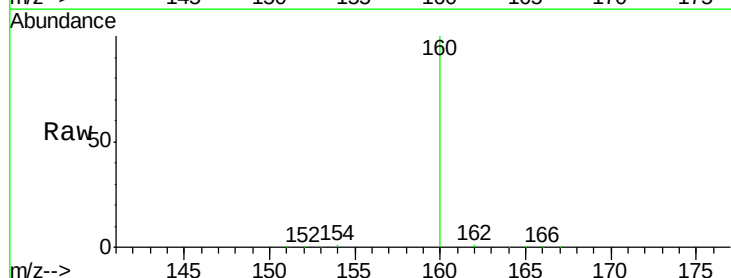
Tgt Ion:152 Resp: 218

Ion Ratio Lower Upper

152 100

151 81.0 16.8 25.2#

153 108.1 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

13.07

300

250

200

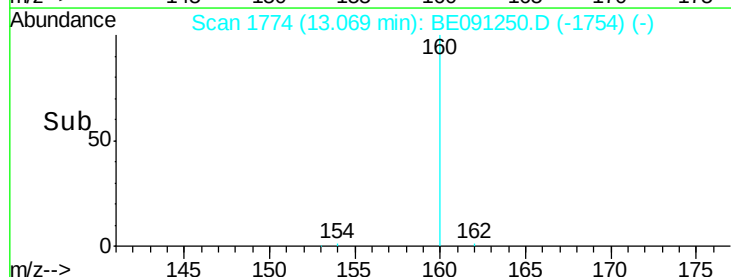
150

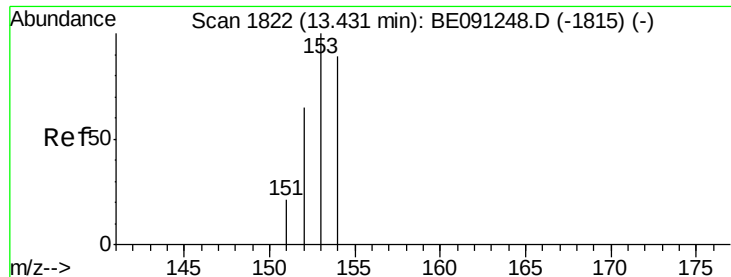
100

50

0

Time--> 13.00 13.05 13.10 13.15





#10

Acenaphthene

Concen: 0.10 ng/ul

RT: 13.45 min Scan# 1824

Delta R.T. 0.01 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

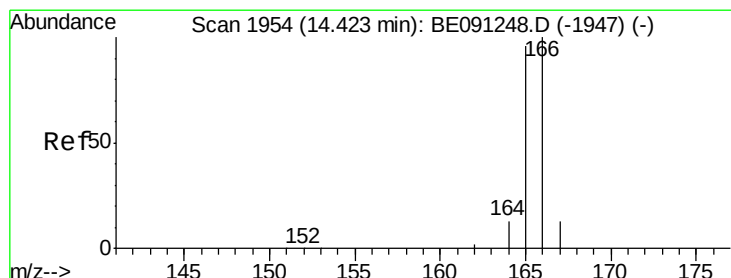
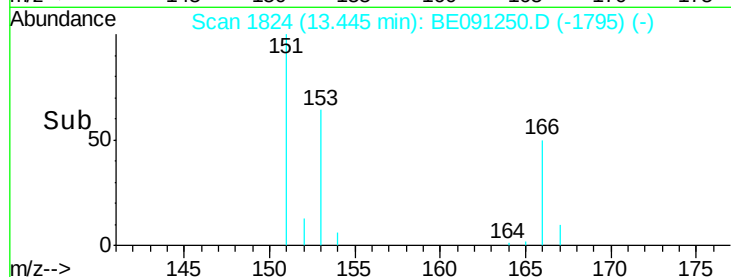
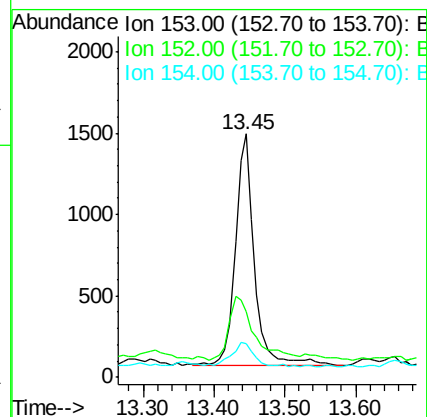
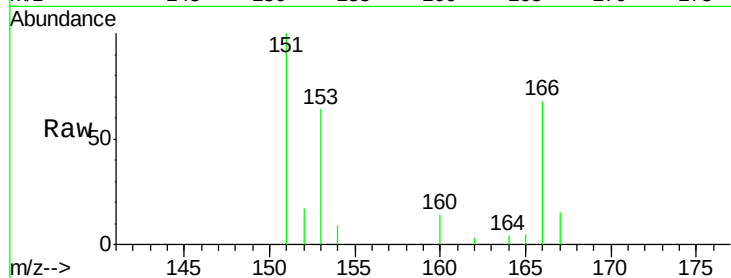
Tot Ion:153 Resp: 2612

Ion Ratio Lower Upper

153 100

152 27.1 42.3 63.5#

154 14.0 64.7 97.1#



#11

Fluorene

Concen: 0.01 ng/ul

RT: 14.41 min Scan# 1952

Delta R.T. -0.02 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

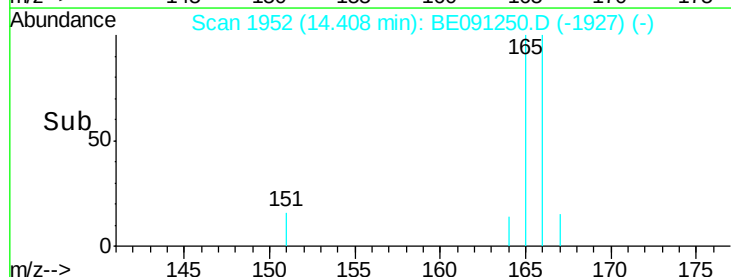
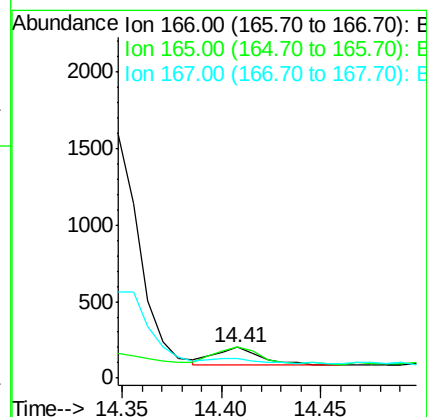
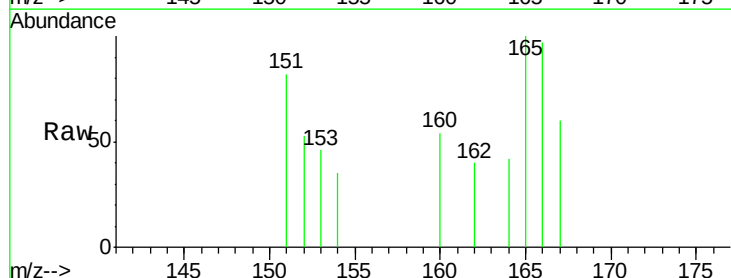
Tgt Ion:166 Resp: 182

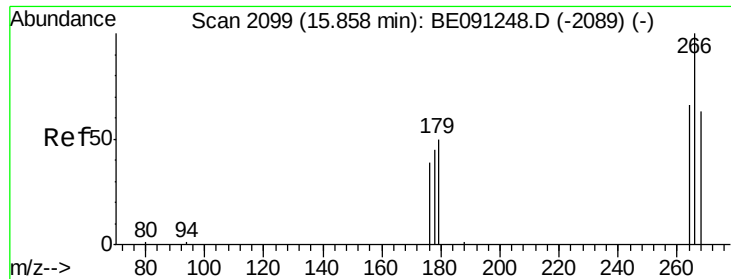
Ion Ratio Lower Upper

166 100

165 103.5 87.6 131.4

167 62.5 11.1 16.7#

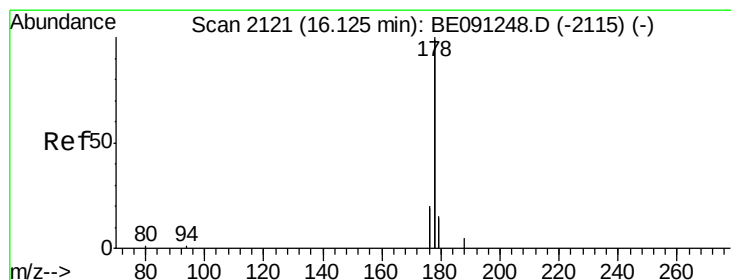
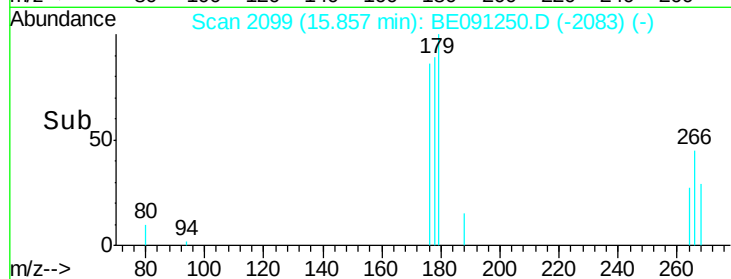
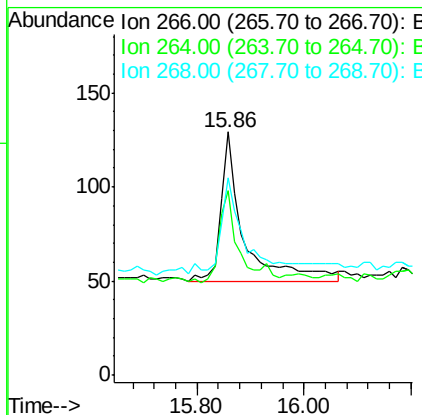
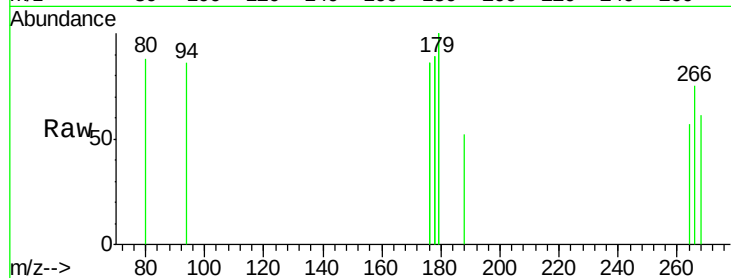




#13  
 Pentachlorophenol  
 Concen: 0.00 ng/ul  
 RT: 15.86 min Scan# 2099  
 Delta R.T. -0.00 min  
 Lab File: BE091250.D  
 Acq: 20 Nov 2015 17:51

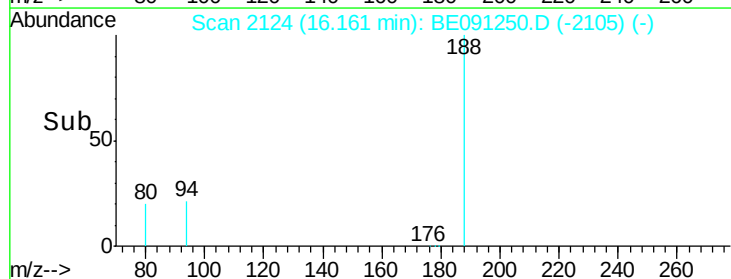
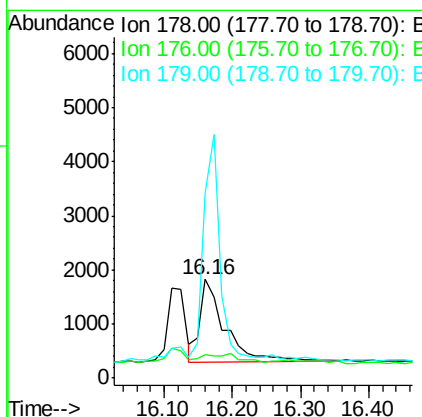
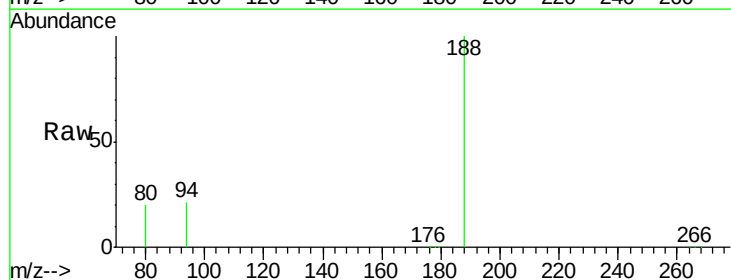
Instrument :  
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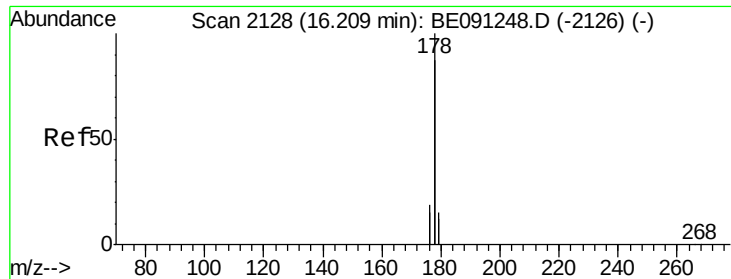
Tot Ion:266 Resp: 235  
 Ion Ratio Lower Upper  
 266 100  
 264 54.0 53.5 80.3  
 268 67.2 54.2 81.2



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 16.16 min Scan# 2124  
 Delta R.T. 0.04 min  
 Lab File: BE091250.D  
 Acq: 20 Nov 2015 17:51

Tgt Ion:178 Resp: 3825  
 Ion Ratio Lower Upper  
 178 100  
 176 24.1 16.2 24.4  
 179 187.0 12.8 19.2#

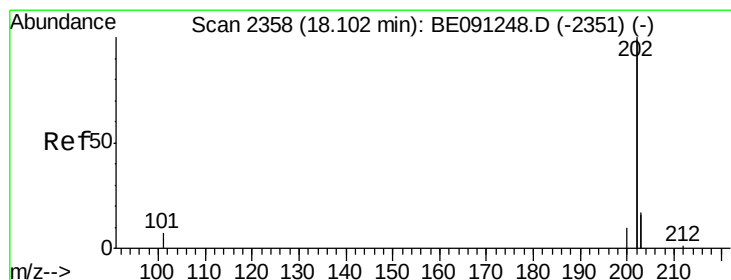
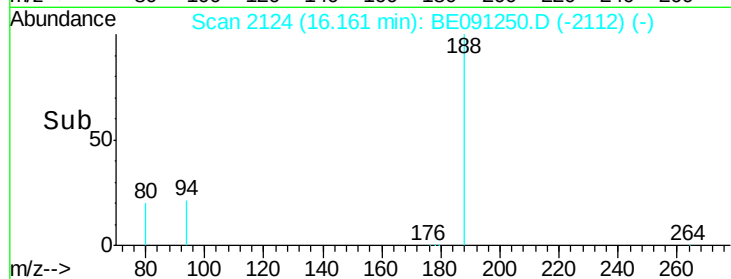
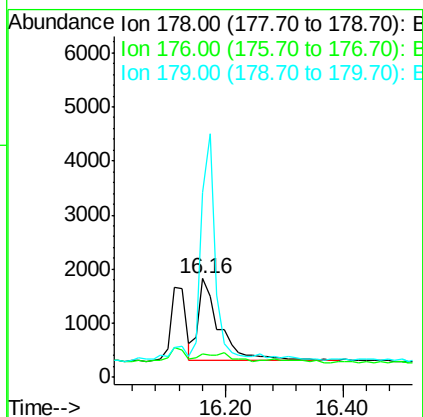
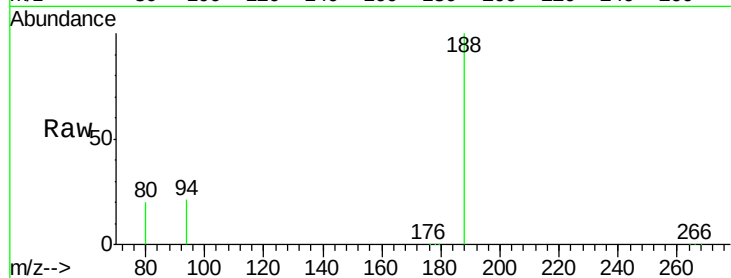




#15  
 Anthracene  
 Concen: 0.00 ng/ul  
 RT: 16.16 min Scan# 2124  
 Delta R.T. -0.05 min  
 Lab File: BE091250.D  
 Acq: 20 Nov 2015 17:51

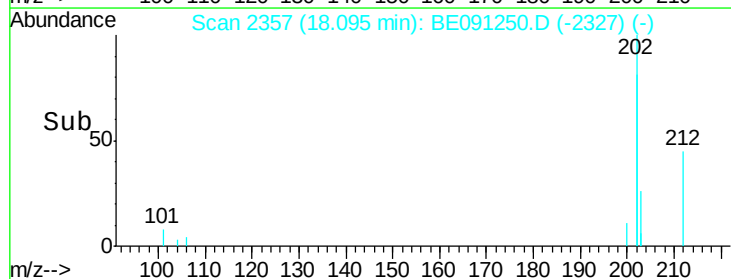
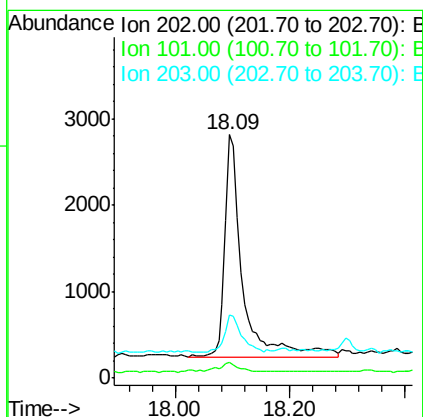
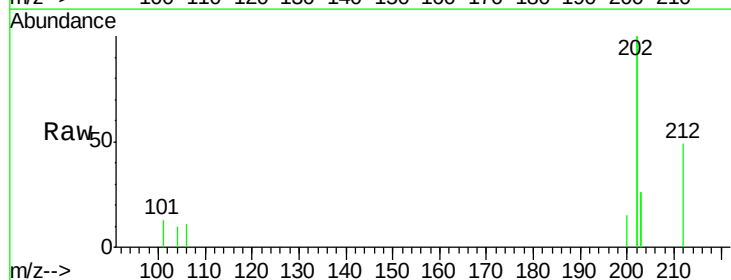
Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J74

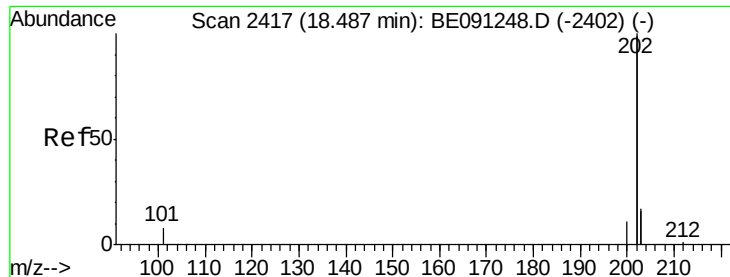
Tot Ion:178 Resp: 3746  
 Ion Ratio Lower Upper  
 178 100  
 176 24.1 15.8 23.8#  
 179 187.0 13.3 19.9#



#17  
 Fluoranthene  
 Concen: 0.00 ng/ul  
 RT: 18.09 min Scan# 2357  
 Delta R.T. -0.01 min  
 Lab File: BE091250.D  
 Acq: 20 Nov 2015 17:51

Tgt Ion:202 Resp: 5564  
 Ion Ratio Lower Upper  
 202 100  
 101 6.4 0.0 33.1  
 203 25.9 0.0 37.2

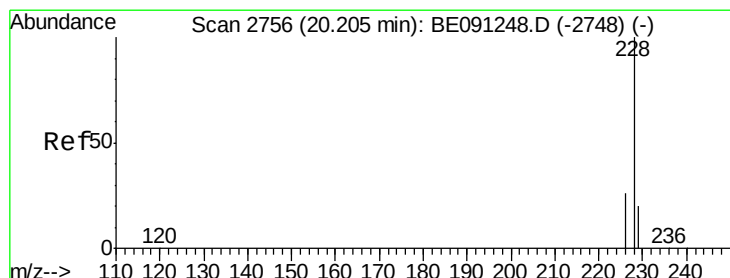
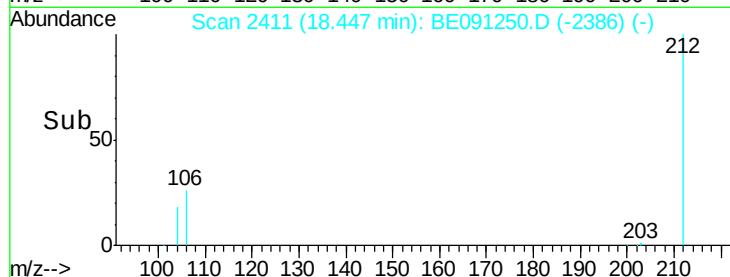
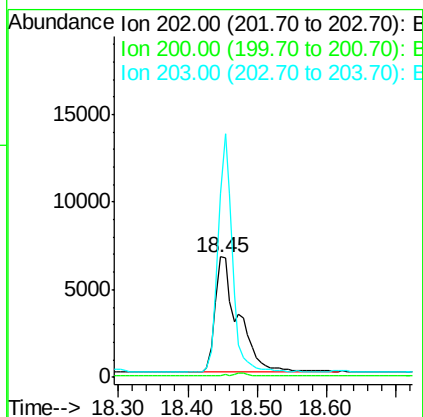
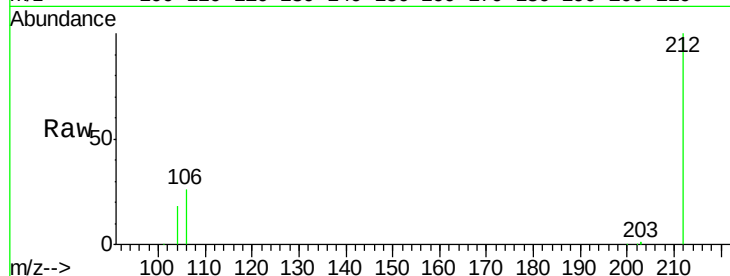




#19  
Pvrene  
Concen: 0.07 ng/ul  
RT: 18.45 min Scan# 2411  
Delta R.T. -0.04 min  
Lab File: BE091250.D  
Acq: 20 Nov 2015 17:51

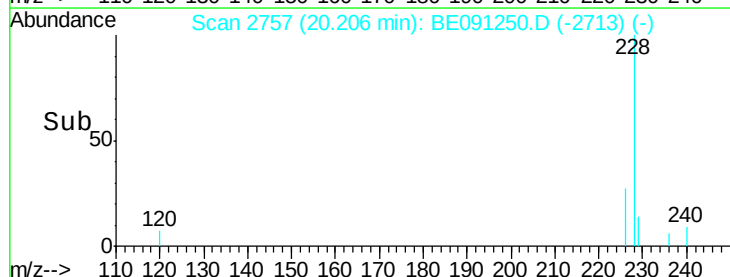
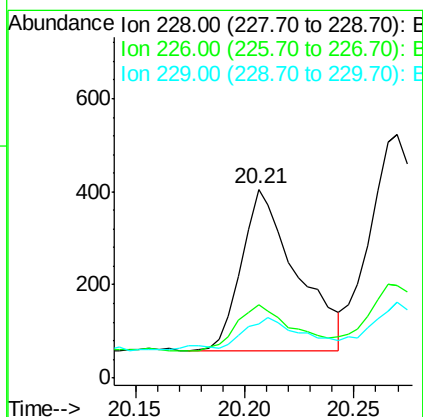
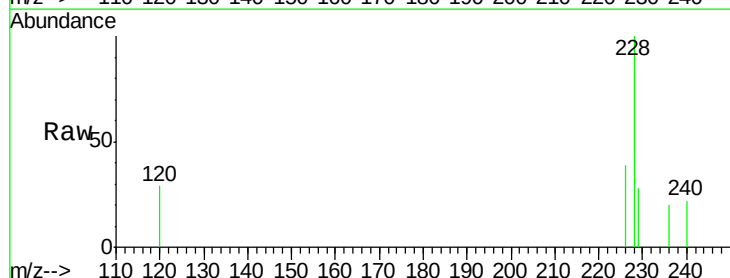
Instrument :  
BNA\_E  
ClientSampleId :  
A4J74

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 1.8   | 18.0  | 27.0# |
| 203     | 152.8 | 13.8  | 20.6# |

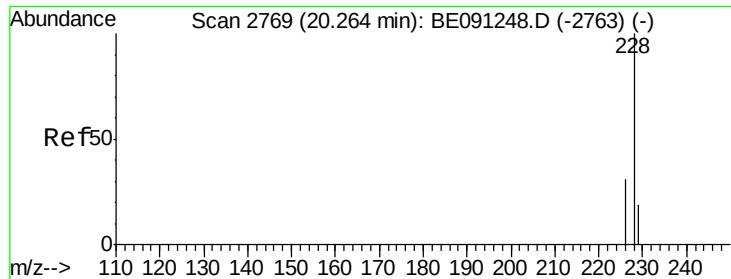


#20  
Benzo(a)anthracene  
Concen: 0.01 ng/ul  
RT: 20.21 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: BE091250.D  
Acq: 20 Nov 2015 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 38.7  | 23.0  | 34.4# |
| 229     | 28.3  | 15.2  | 22.8# |







#21

Chrysene

Concen: 0.02 ng/ul

RT: 20.27 min Scan# 2771

Delta R.T. 0.01 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

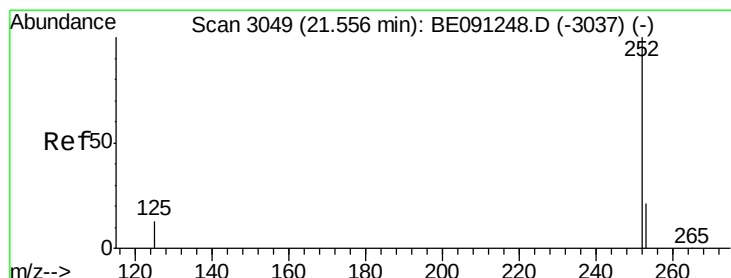
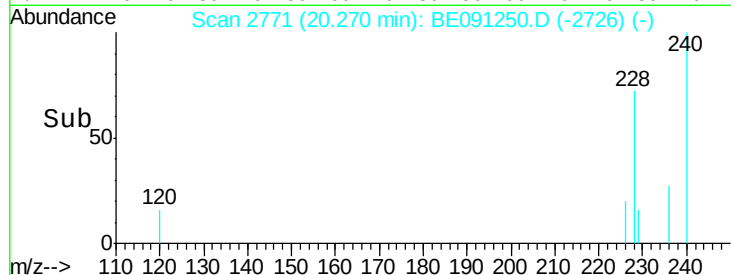
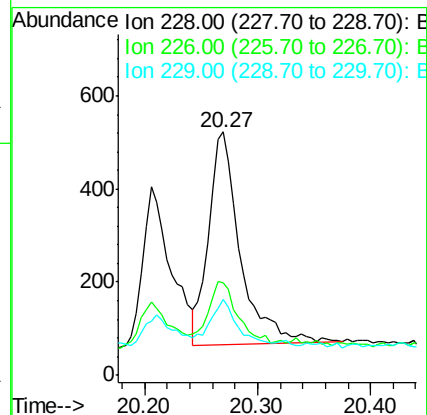
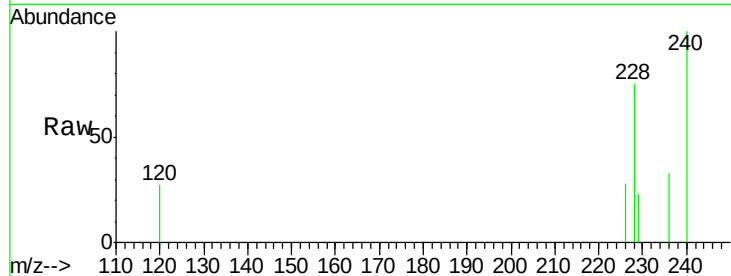
Tot Ion:228 Resp: 895

Ion Ratio Lower Upper

228 100

226 37.9 25.7 38.5

229 31.2 15.2 22.8#



#23

Benzo(b)fluoranthene

Concen: 0.00 ng/ul

RT: 21.42 min Scan# 3019

Delta R.T. -0.14 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

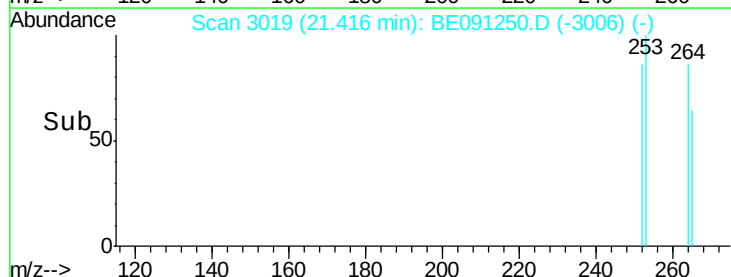
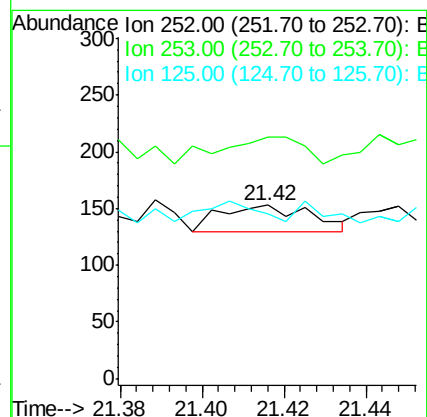
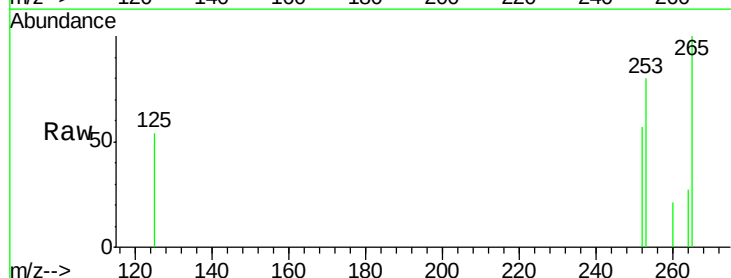
Tgt Ion:252 Resp: 35

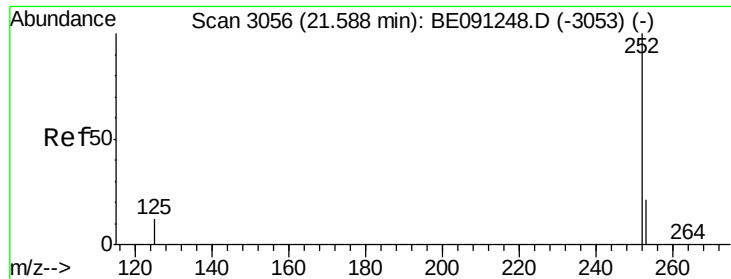
Ion Ratio Lower Upper

252 100

253 139.2 0.0 48.0#

125 94.8 0.0 36.6#





#24

Benzo(k)fluoranthene

Concen: 0.00 ng/ul

RT: 21.47 min Scan# 3030

Delta R.T. -0.12 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

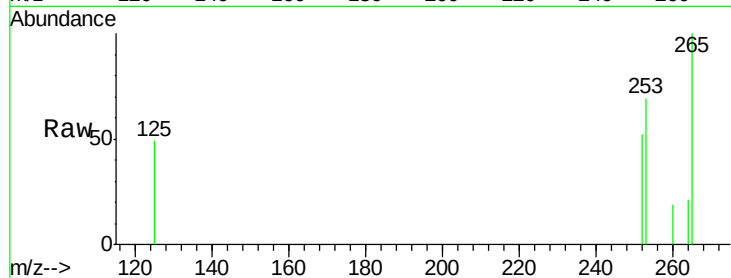
Tot Ion:252 Resp: 14

Ion Ratio Lower Upper

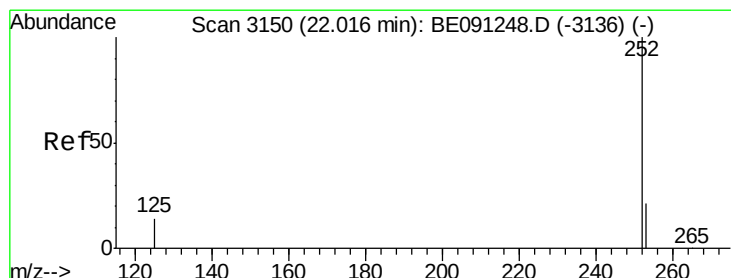
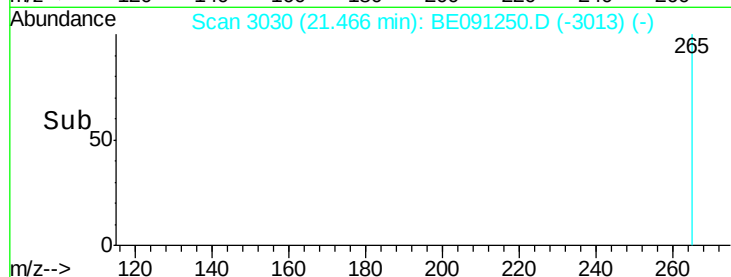
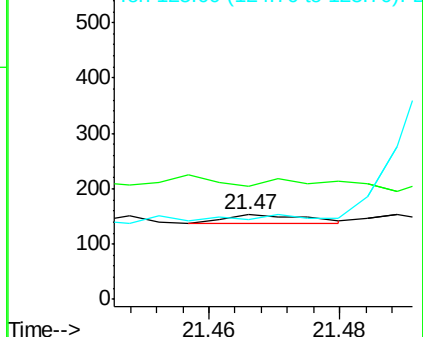
252 100

253 133.3 20.8 31.2#

125 94.1 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: 0.00 ng/ul

RT: 21.99 min Scan# 3144

Delta R.T. -0.03 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

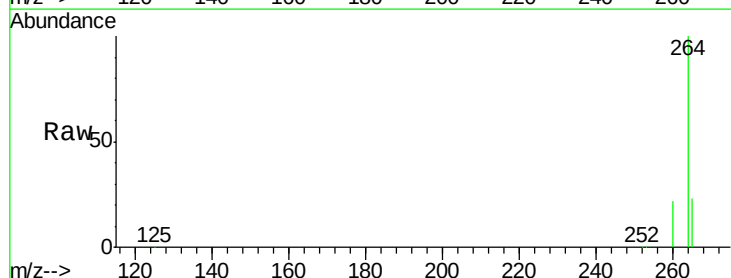
Tgt Ion:252 Resp: 5997

Ion Ratio Lower Upper

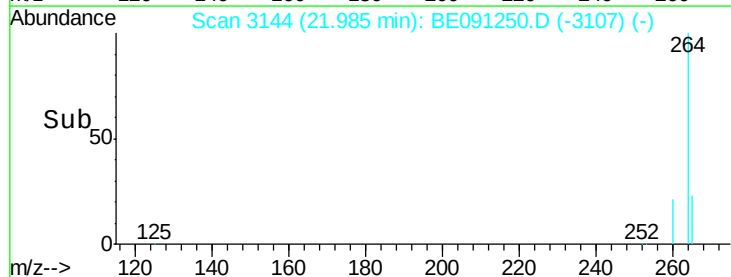
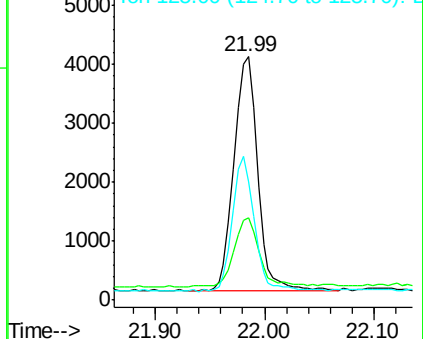
252 100

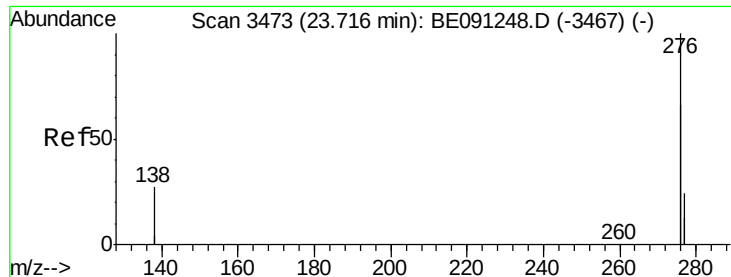
253 34.1 21.8 32.8#

125 48.6 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: 0.00 ng/ul

RT: 23.58 min Scan# 3452

Delta R.T. -0.14 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

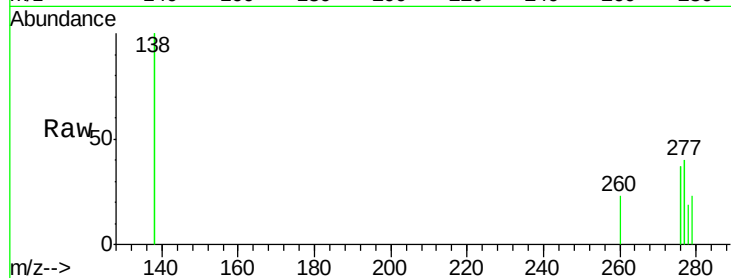
Tot Ion:276 Resp: 38

Ion Ratio Lower Upper

276 100

138 131.6 27.5 41.3#

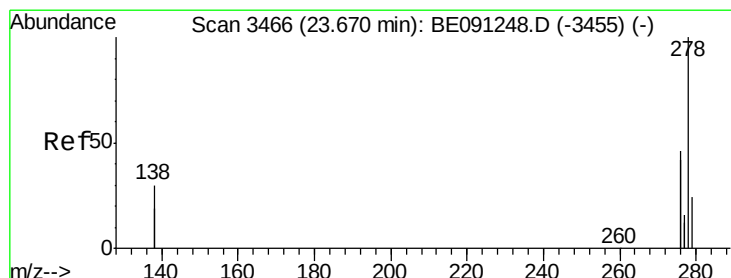
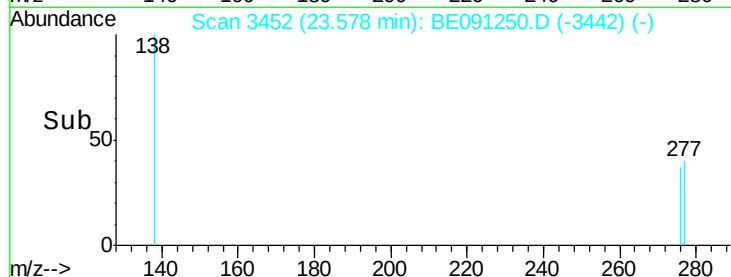
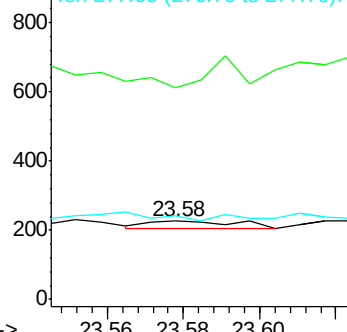
277 0.0 19.3 28.9#



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: 0.00 ng/ul

RT: 23.55 min Scan# 3447

Delta R.T. -0.12 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

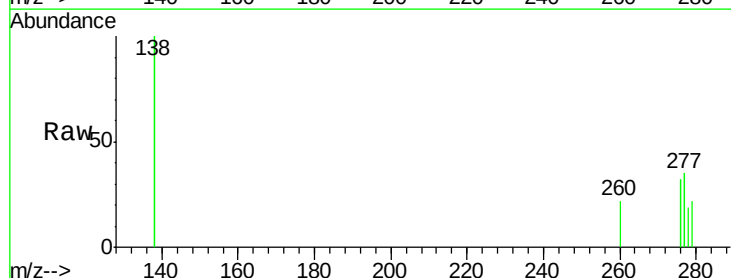
Tgt Ion:278 Resp: 37

Ion Ratio Lower Upper

278 100

139 0.0 21.7 32.5#

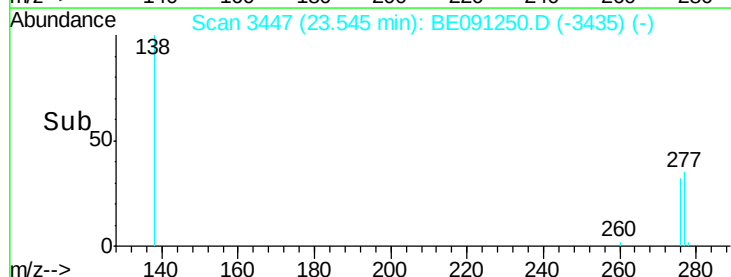
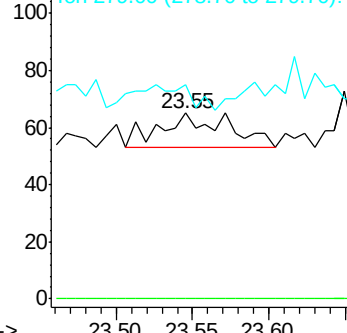
279 115.4 21.9 32.9#

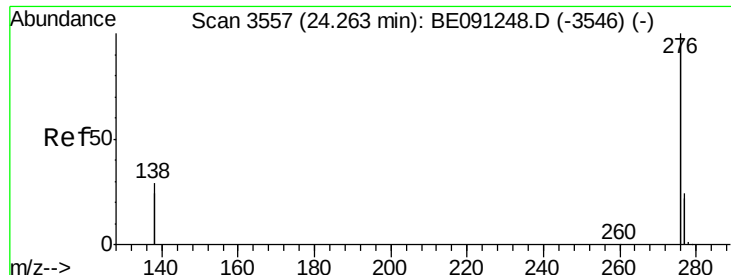


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(a,h,i)perylene

Concen: 0.00 ng/ul

RT: 24.11 min Scan# 3534

Delta R.T. -0.15 min

Lab File: BE091250.D

Acq: 20 Nov 2015 17:51

Instrument :

BNA\_E

ClientSampleId :

A4J74

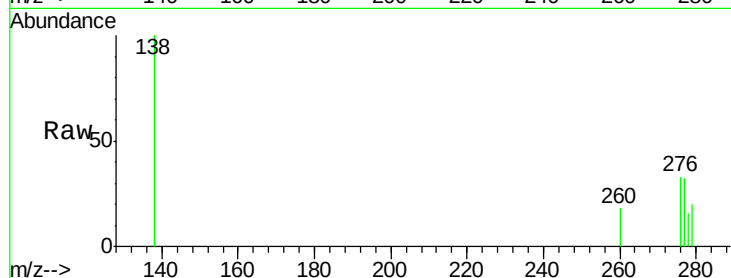
Tot Ion: 276 Resp: 13

Ion Ratio Lower Upper

276 100

277 95.7 21.3 31.9#

138 300.0 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

