

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE123114\  
 Data File : BE089295.D  
 Acq On : 31 Dec 2014 16:45  
 Operator : TP/IZ  
 Sample : F5245-01RX  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 Y9R96RX

Quant Time: Jan 01 03:22:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM01.2-EPA-SIM-BE123014.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 01 03:02:36 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 1462     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 8.51  | 136  | 5705     | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 10.65 | 164  | 2772     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 12.71 | 188  | 4174     | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 18.06 | 240  | 2634     | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 21.12 | 264  | 2015     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 2.15  | 96   | 692      | 0.31 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 0.00  | 152  | 0        | 0.00 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 14.92 | 212  | 3        | 0.00 | ng/ul | 0.00     |

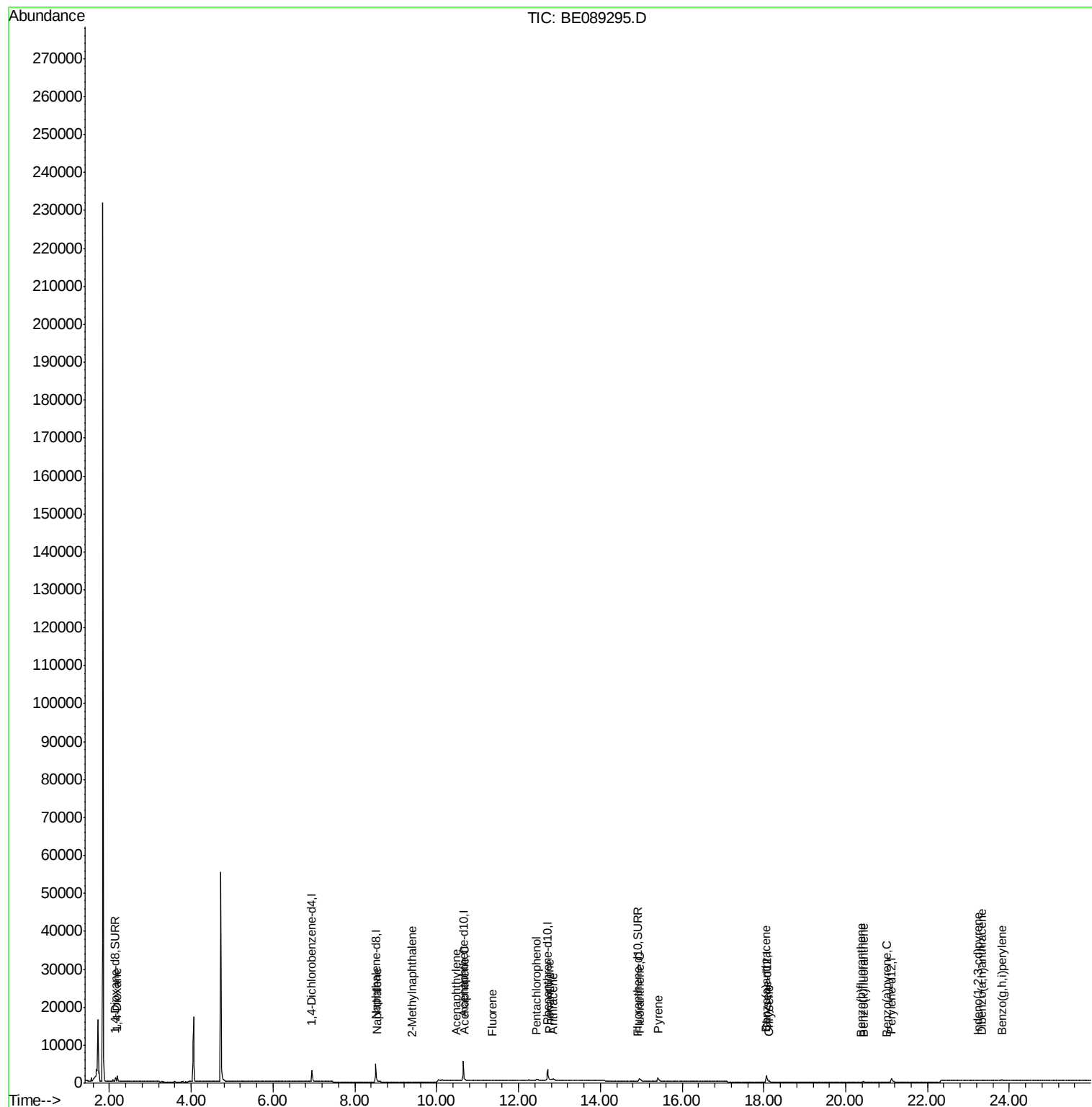
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) 1,4-Dioxane             | 2.19  | 88   | 907      | 0.37 | ng/ul# | 84     |
| 5) Naphthalene             | 8.54  | 128  | 265      | 0.02 | ng/ul# | 47     |
| 7) 2-Methylnaphthalene     | 9.40  | 142  | 49       | 0.01 | ng/ul  | 93     |
| 9) Acenaphthylene          | 10.48 | 152  | 93       | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 10.69 | 153  | 111      | 0.00 | ng/ul# | 45     |
| 11) Fluorene               | 11.35 | 166  | 24       | 0.00 | ng/ul# | 60     |
| 13) Pentachlorophenol      | 12.45 | 266  | 234      | 0.53 | ng/ul  | 97     |
| 14) Phenanthrene           | 12.75 | 178  | 466      | 0.01 | ng/ul# | 16     |
| 15) Anthracene             | 12.85 | 178  | 597      | 0.01 | ng/ul# | 21     |
| 17) Fluoranthene           | 14.96 | 202  | 1411     | 0.04 | ng/ul  | 66     |
| 19) Pyrene                 | 15.41 | 202  | 1495     | 0.04 | ng/ul# | 66     |
| 20) Benzo(a)anthracene     | 18.05 | 228  | 272      | 0.05 | ng/ul# | 59     |
| 21) Chrysene               | 18.12 | 228  | 427      | 0.06 | ng/ul# | 65     |
| 23) Benzo(b)fluoranthene   | 20.37 | 252  | 203      | 0.04 | ng/ul# | 41     |
| 24) Benzo(k)fluoranthene   | 20.43 | 252  | 298      | 0.04 | ng/ul# | 41     |
| 25) Benzo(a)pyrene         | 21.00 | 252  | 144      | 0.03 | ng/ul# | 20     |
| 26) Indeno(1,2,3-cd)pyrene | 23.24 | 276  | 901      | 0.06 | ng/ul# | 72     |
| 27) Dibenzo(a,h)anthracene | 23.33 | 278  | 120      | 0.03 | ng/ul# | 20     |
| 28) Benzo(g,h,i)perylene   | 23.82 | 276  | 861      | 0.04 | ng/ul# | 35     |

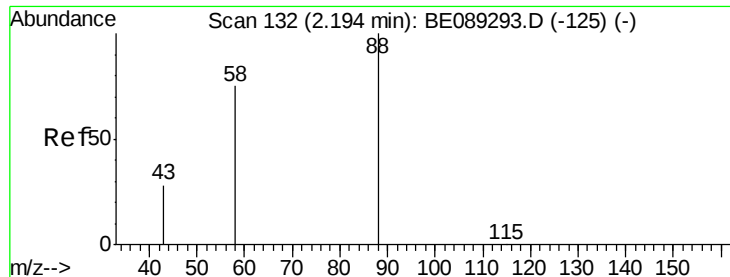
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE123114\  
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Quant Time: Jan 01 03:22:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM01.2-EPA-SIM-BE123014.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 01 03:02:36 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.37 ng/ul

RT: 2.19 min Scan# 131

Delta R.T. -0.00 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

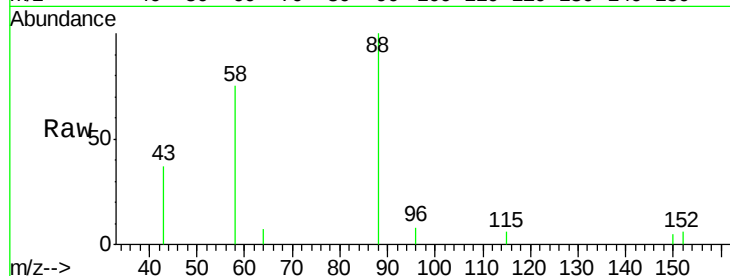
Tgt Ion: 88 Resp: 907

Ion Ratio Lower Upper

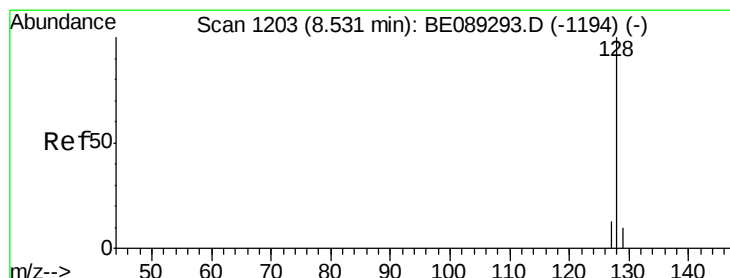
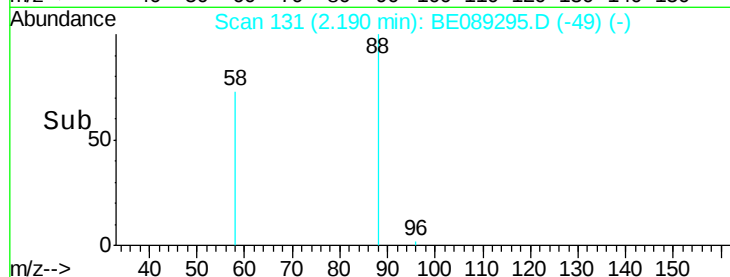
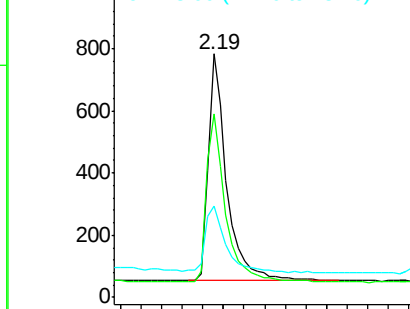
88 100

58 76.2 61.5 92.3

43 0.0 23.9 35.9#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



#5

Naphthalene

Concen: 0.02 ng/ul

RT: 8.54 min Scan# 1204

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

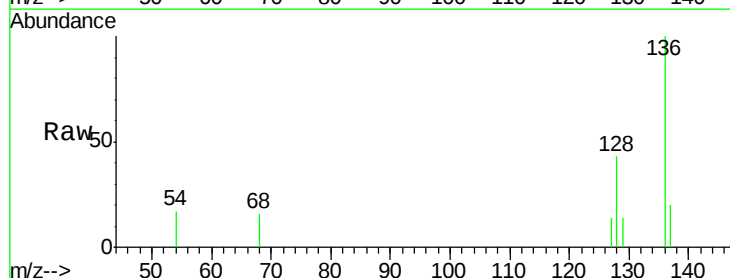
Tgt Ion: 128 Resp: 265

Ion Ratio Lower Upper

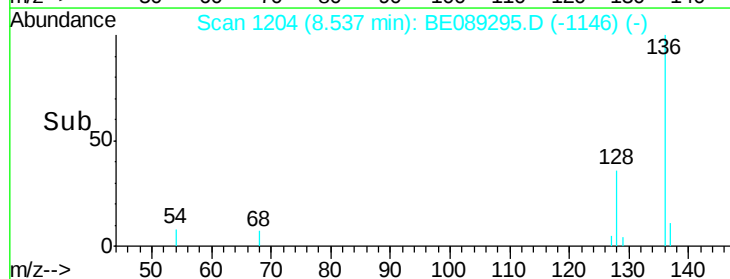
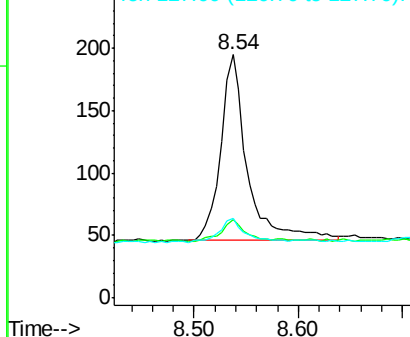
128 100

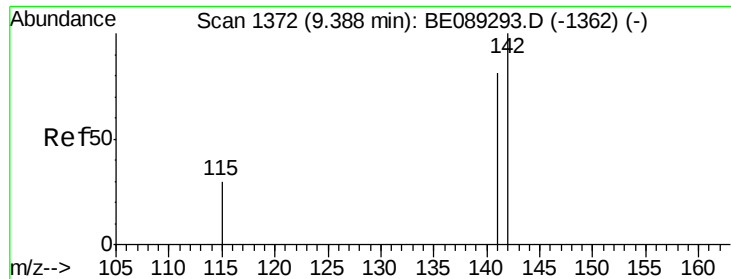
129 32.3 9.1 13.7#

127 32.8 10.0 15.0#



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





#7

2-Methylnaphthalene

Concen: 0.01 ng/ul

RT: 9.40 min Scan# 1375

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

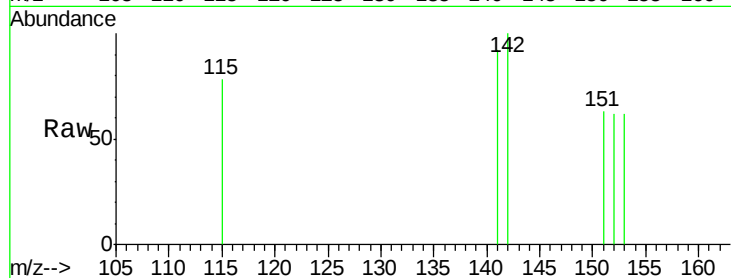
Y9R96RX

Tgt Ion:142 Resp: 49

Ion Ratio Lower Upper

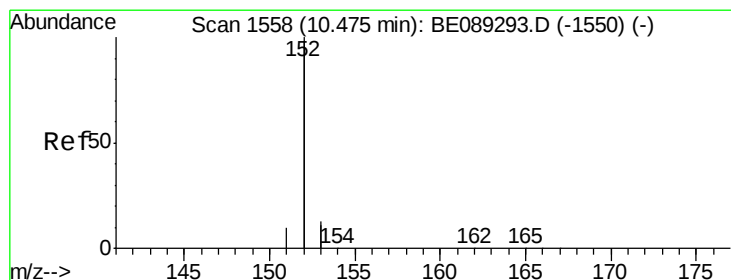
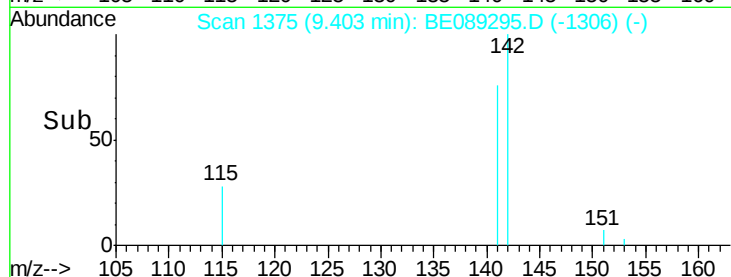
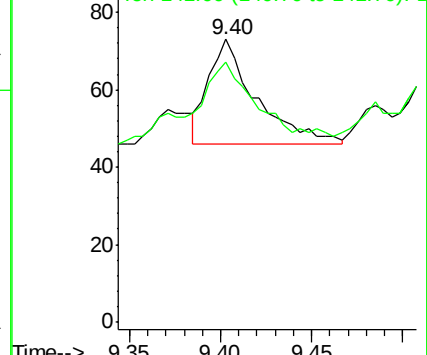
142 100

141 87.8 65.4 98.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 10.48 min Scan# 1559

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

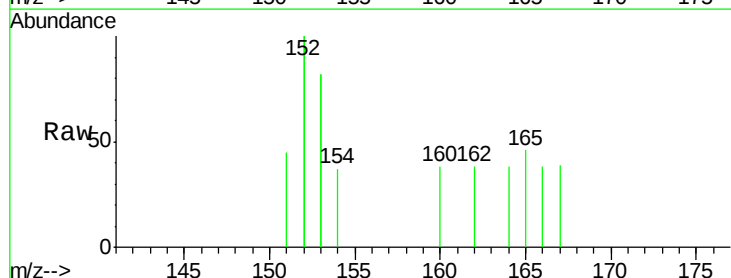
Tgt Ion:152 Resp: 93

Ion Ratio Lower Upper

152 100

151 22.4 4.0 6.0#

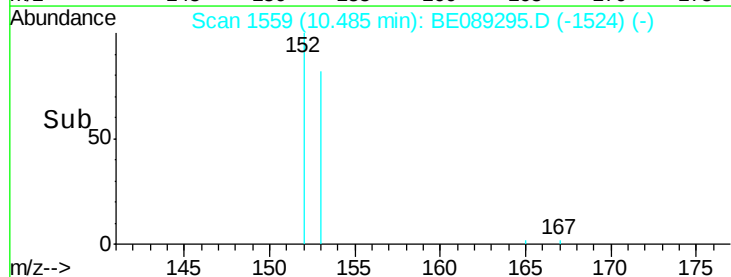
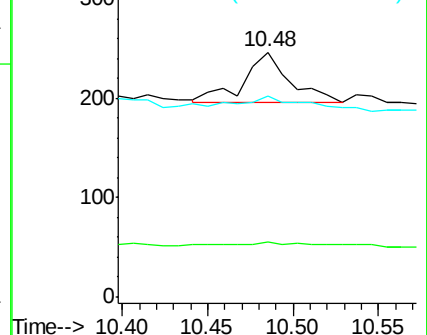
153 82.1 10.1 15.1#

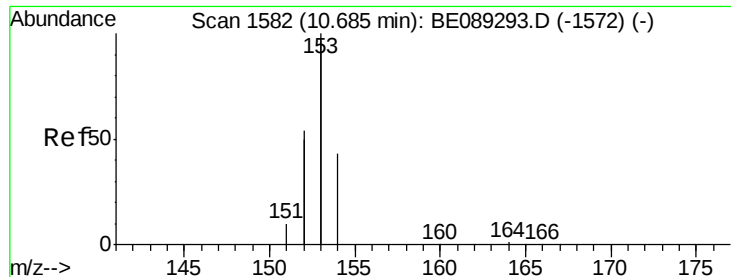


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 10.69 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

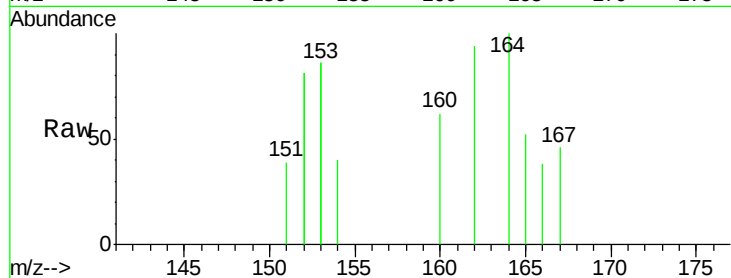
Tgt Ion:153 Resp: 111

Ion Ratio Lower Upper

153 100

152 94.7 32.6 49.0#

154 23.2 21.8 32.6



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

10.69

250

200

150

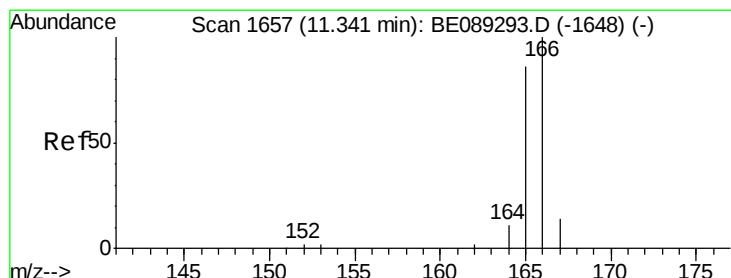
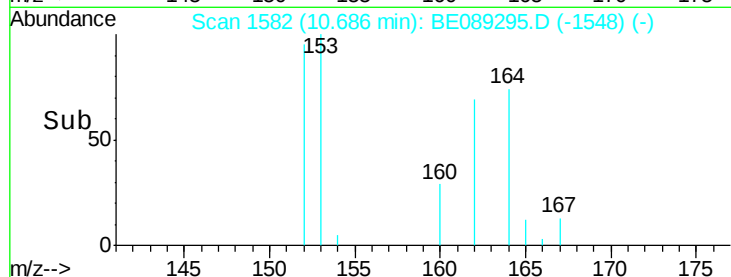
100

50

0

10.60 10.65 10.70

Time-->



#11

Fluorene

Concen: 0.00 ng/ul

RT: 11.35 min Scan# 1658

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

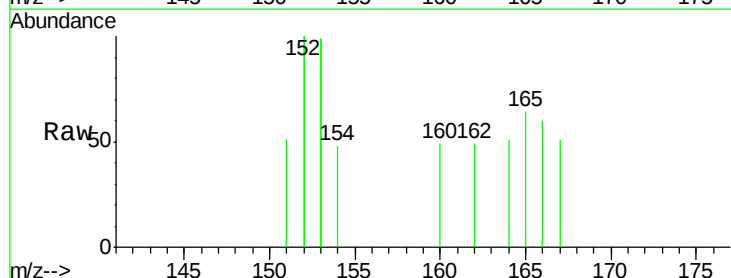
Tgt Ion:166 Resp: 24

Ion Ratio Lower Upper

166 100

165 105.5 70.3 105.5

167 83.6 11.5 17.3#



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

11.35

80

60

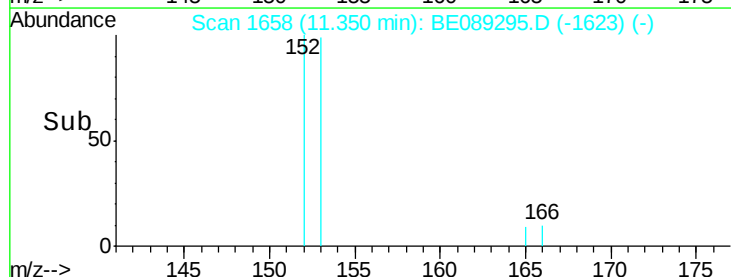
40

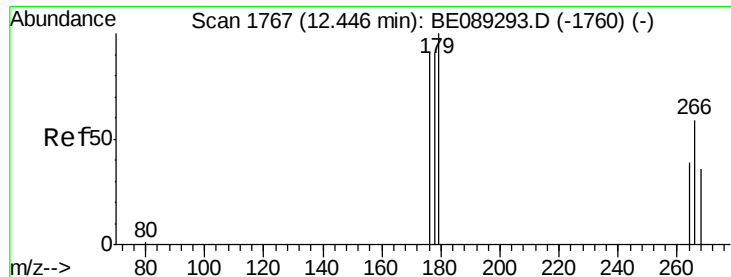
20

0

11.30 11.40

Time-->

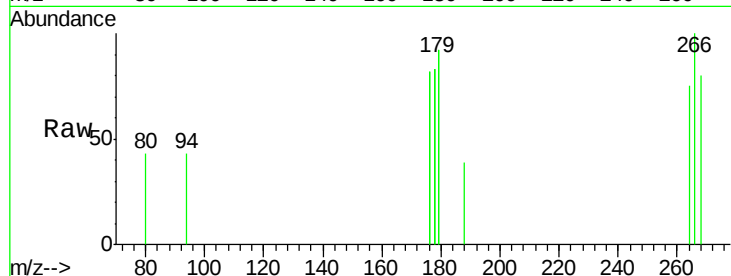




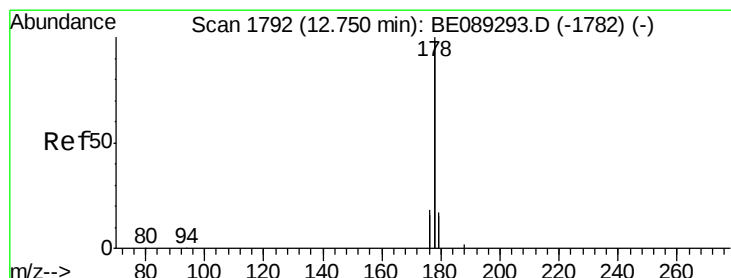
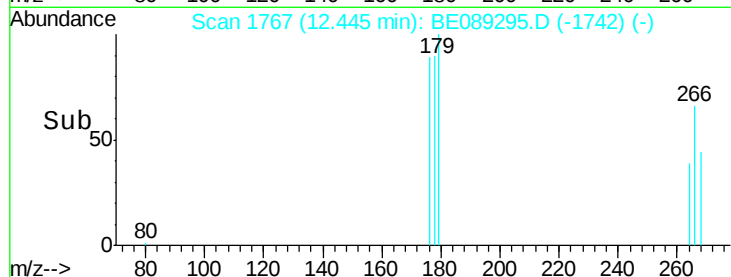
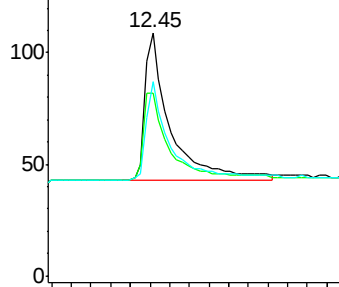
#13  
 Pentachlorophenol  
 Concen: 0.53 ng/ul  
 RT: 12.45 min Scan# 1767  
 Delta R.T. -0.00 min  
 Lab File: BE089295.D  
 Acq: 31 Dec 2014 16:45

Instrument :  
 BNA\_E  
 ClientSampled :  
 Y9R96RX

Tgt Ion: 266 Resp: 234  
 Ion Ratio Lower Upper  
 266 100  
 264 59.8 48.7 73.1  
 268 63.2 52.9 79.3

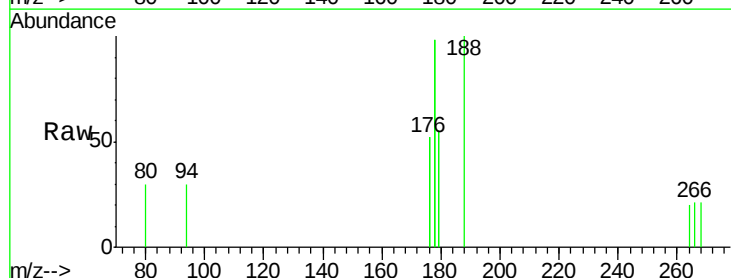


Abundance Ion 266.00 (265.70 to 266.70): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

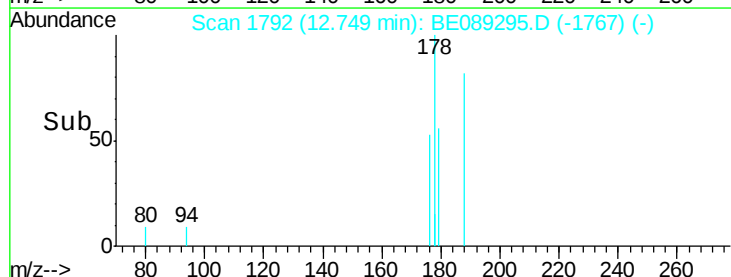
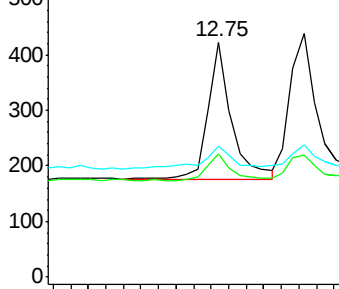


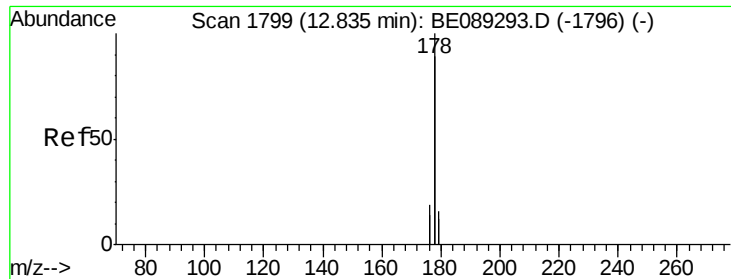
#14  
 Phenanthrene  
 Concen: 0.01 ng/ul  
 RT: 12.75 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: BE089295.D  
 Acq: 31 Dec 2014 16:45

Tgt Ion: 178 Resp: 466  
 Ion Ratio Lower Upper  
 178 100  
 176 52.6 14.3 21.5#  
 179 55.9 13.8 20.8#



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





#15

Anthracene

Concen: 0.01 ng/ul

RT: 12.85 min Scan# 1800

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

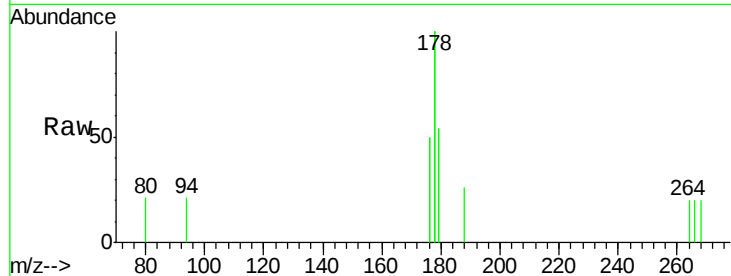
Tgt Ion:178 Resp: 597

Ion Ratio Lower Upper

178 100

176 50.2 14.7 22.1#

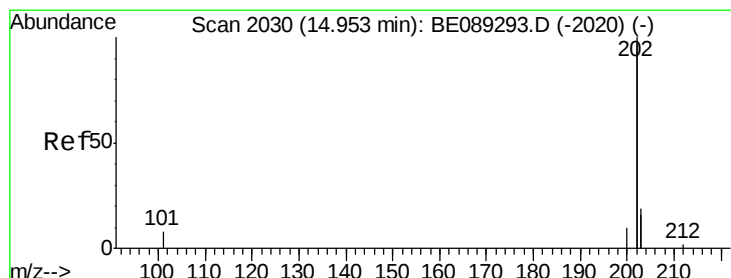
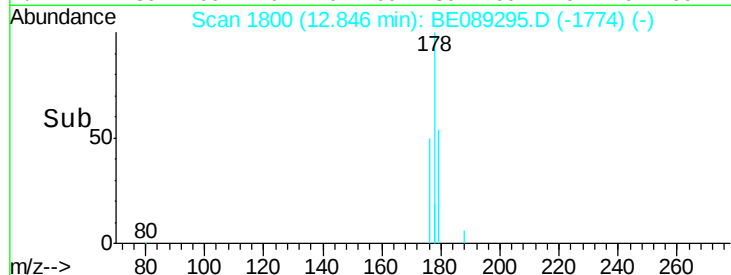
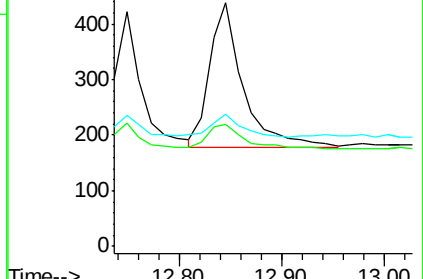
179 54.3 13.4 20.2#



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



#17

Fluoranthene

Concen: 0.04 ng/ul

RT: 14.96 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

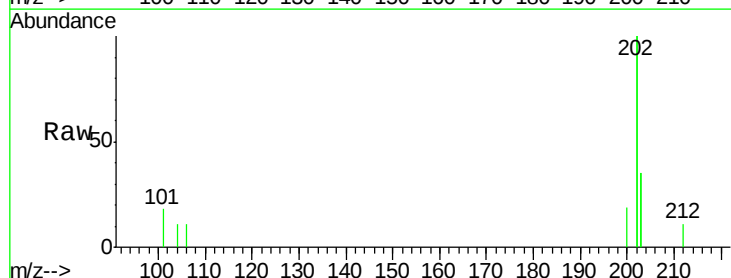
Tgt Ion:202 Resp: 1411

Ion Ratio Lower Upper

202 100

101 8.8 0.0 24.6

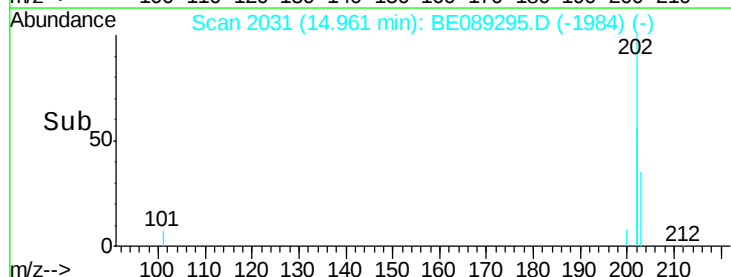
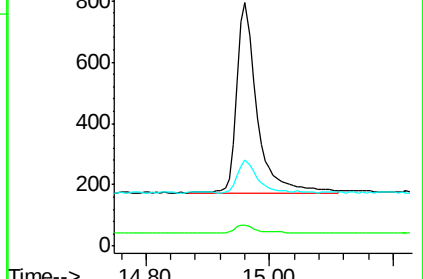
203 35.3 0.0 37.8

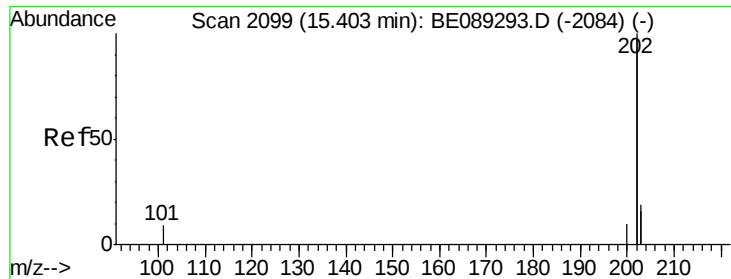


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

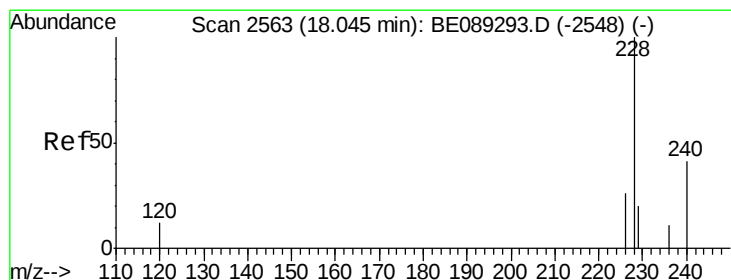
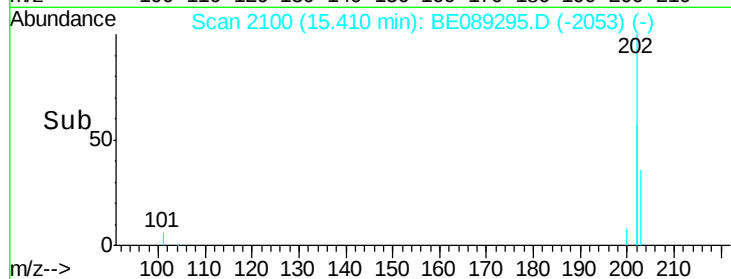
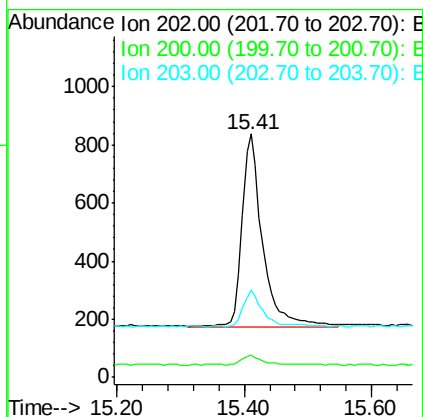
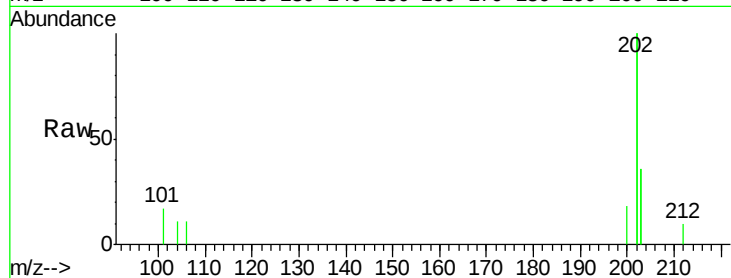




#19  
Pyrene  
Concen: 0.04 ng/ul  
RT: 15.41 min Scan# 2100  
Delta R.T. 0.01 min  
Lab File: BE089295.D  
Acq: 31 Dec 2014 16:45

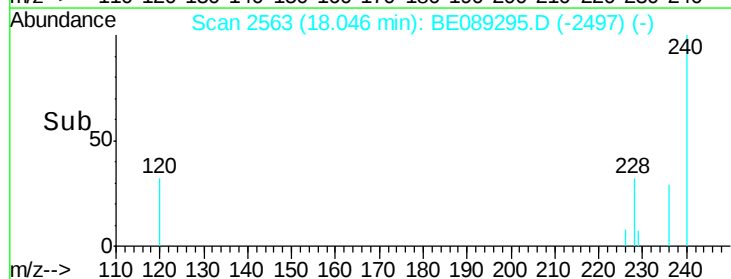
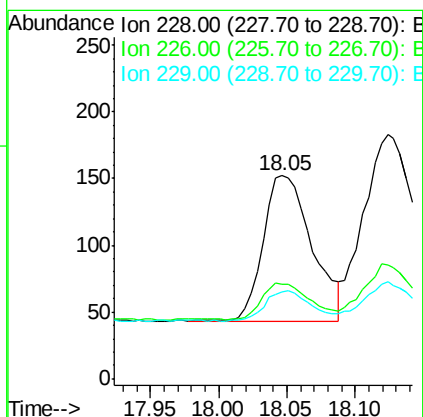
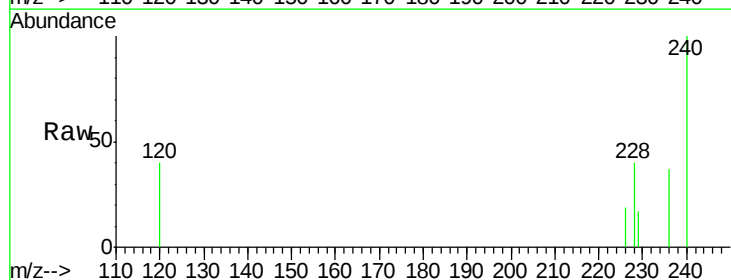
Instrument :  
BNA\_E  
ClientSampleId :  
Y9R96RX

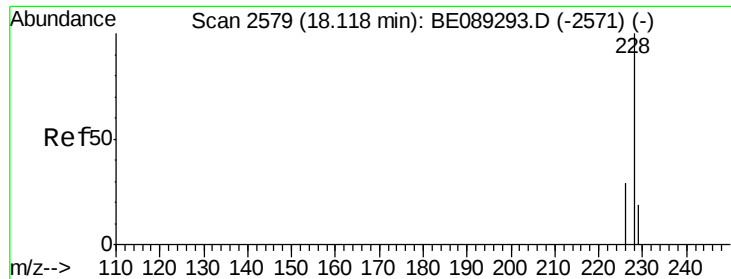
Tgt Ion:202 Resp: 1495  
Ion Ratio Lower Upper  
202 100  
200 8.9 4.2 6.4#  
203 36.0 14.4 21.6#



#20  
Benzo(a)anthracene  
Concen: 0.05 ng/ul  
RT: 18.05 min Scan# 2563  
Delta R.T. 0.00 min  
Lab File: BE089295.D  
Acq: 31 Dec 2014 16:45

Tgt Ion:228 Resp: 272  
Ion Ratio Lower Upper  
228 100  
226 46.7 21.9 32.9#  
229 42.8 16.9 25.3#





#21

Chrysene

Concen: 0.06 ng/ul

RT: 18.12 min Scan# 2580

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

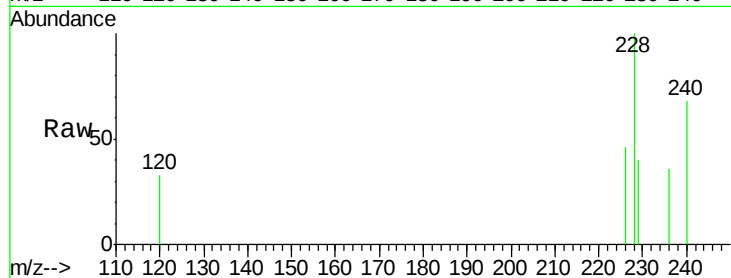
Tgt Ion:228 Resp: 427

Ion Ratio Lower Upper

228 100

226 46.4 23.9 35.9#

229 39.9 16.8 25.2#



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

18.12

200

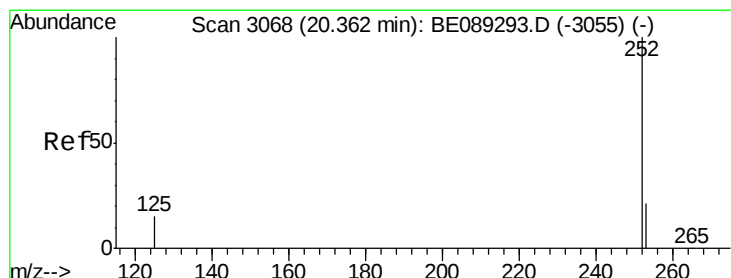
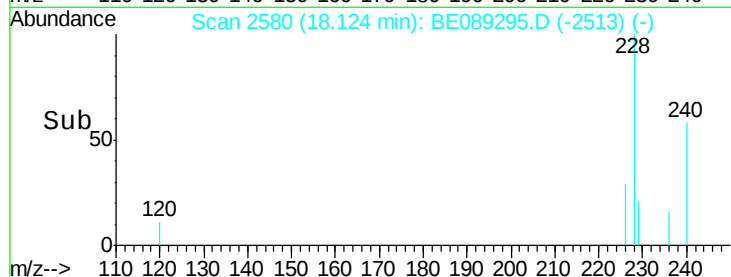
150

100

50

0

Time--> 18.00 18.10 18.20 18.30



#23

Benzo(b)fluoranthene

Concen: 0.04 ng/ul

RT: 20.37 min Scan# 3070

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

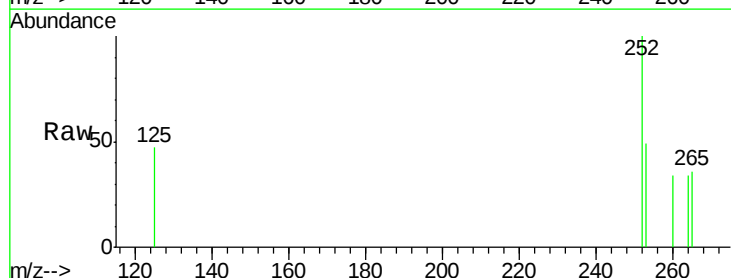
Tgt Ion:252 Resp: 203

Ion Ratio Lower Upper

252 100

253 49.2 0.0 47.8#

125 46.9 0.0 34.2#



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

20.37

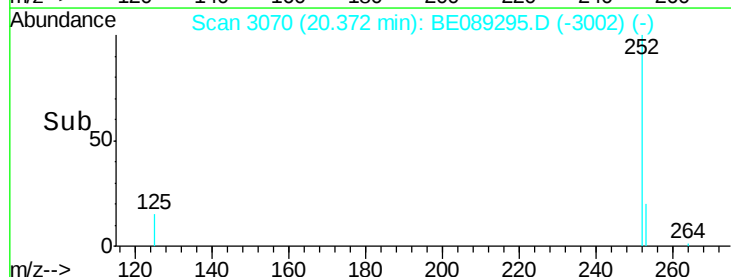
150

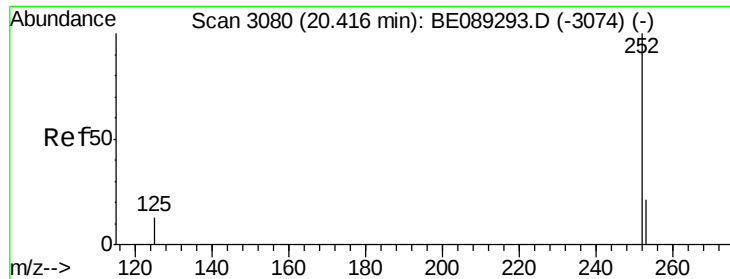
100

50

0

Time--> 20.30 20.40





#24

Benzo(k)fluoranthene

Concen: 0.04 ng/ul

RT: 20.43 min Scan# 3083

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

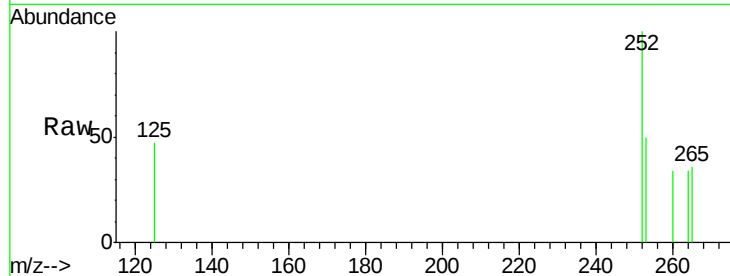
Tgt Ion: 252 Resp: 298

Ion Ratio Lower Upper

252 100

253 49.6 19.0 28.6#

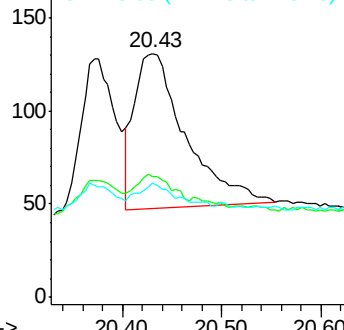
125 46.6 13.5 20.3#



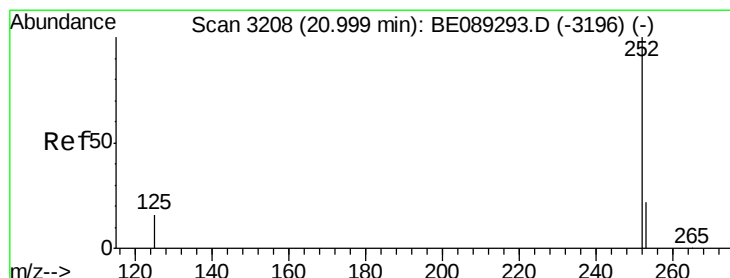
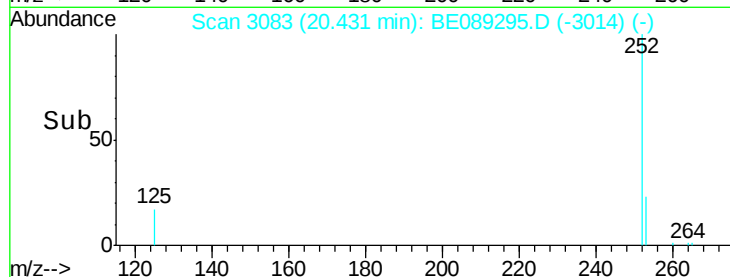
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#25

Benzo(a)pyrene

Concen: 0.03 ng/ul

RT: 21.00 min Scan# 3209

Delta R.T. 0.01 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

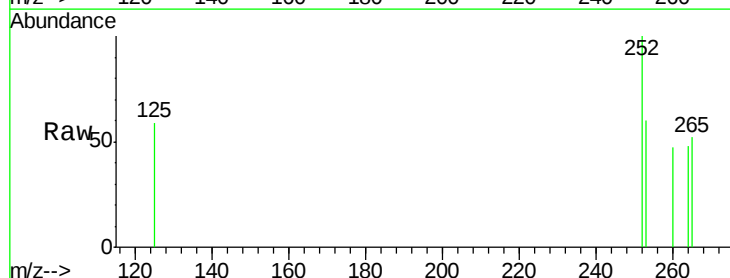
Tgt Ion: 252 Resp: 144

Ion Ratio Lower Upper

252 100

253 60.4 19.7 29.5#

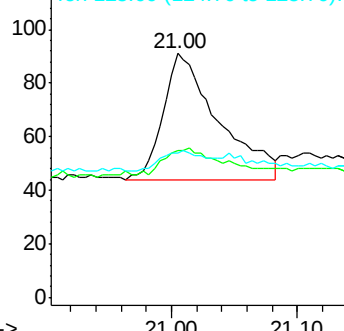
125 59.3 15.0 22.6#



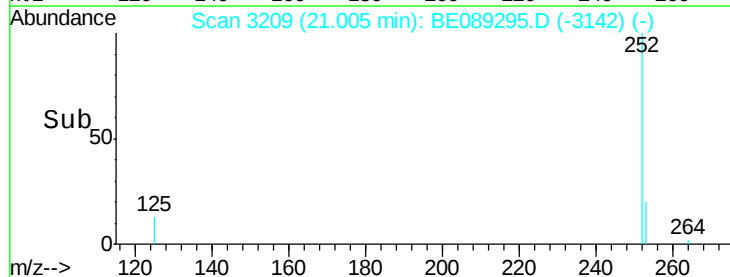
Abundance Ion 252.00 (251.70 to 252.70): E

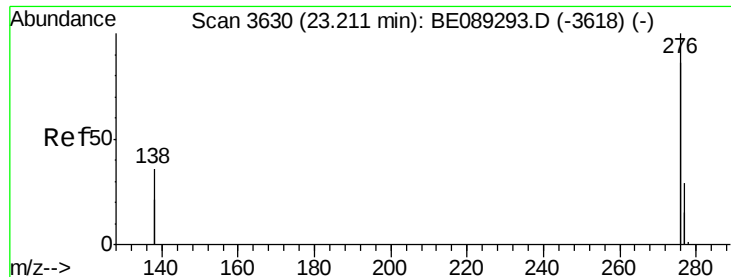
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng/ul

RT: 23.24 min Scan# 3634

Delta R.T. 0.03 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX

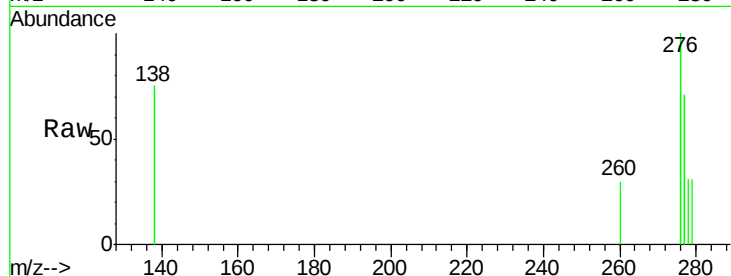
Tgt Ion:276 Resp: 901

Ion Ratio Lower Upper

276 100

138 12.9 23.8 35.8#

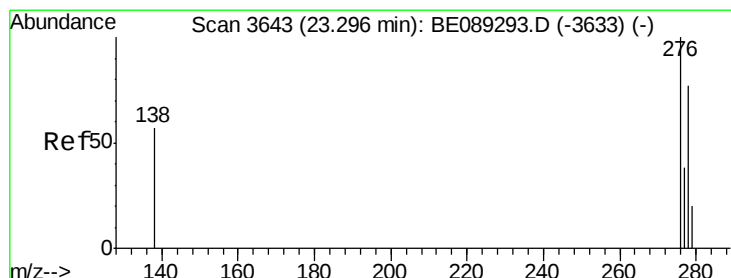
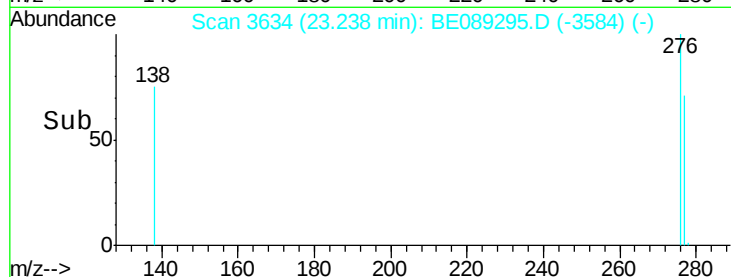
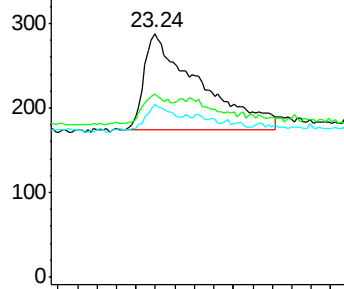
277 12.2 18.9 28.3#



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: 0.03 ng/ul

RT: 23.33 min Scan# 3648

Delta R.T. 0.03 min

Lab File: BE089295.D

Acq: 31 Dec 2014 16:45

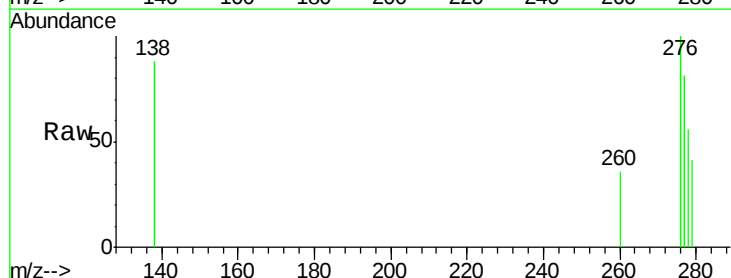
Tgt Ion:278 Resp: 120

Ion Ratio Lower Upper

278 100

139 0.0 0.0 0.0

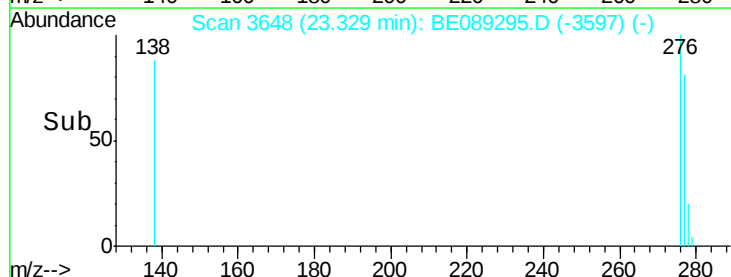
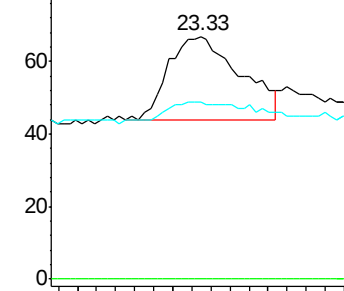
279 73.1 24.0 36.0#

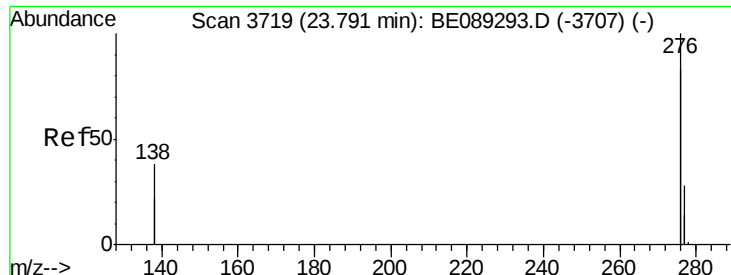


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(g,h,i)perylene

Concen: 0.04 ng/ul

RT: 23.82 min Scan# 3723

Delta R.T. 0.03 min

Lab File: BE089295.D

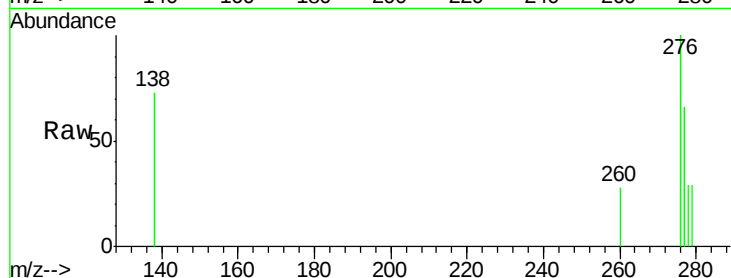
Acq: 31 Dec 2014 16:45

Instrument :

BNA\_E

ClientSampleId :

Y9R96RX



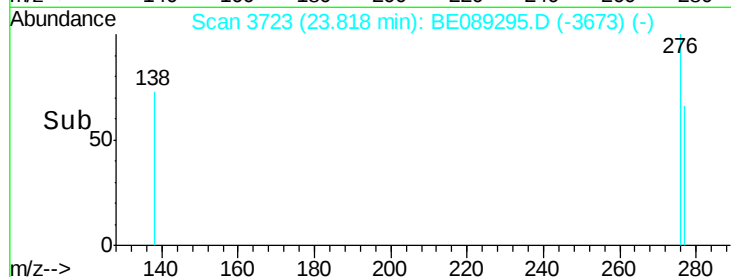
Tgt Ion: 276 Resp: 861

Ion Ratio Lower Upper

276 100

277 66.2 22.3 33.5#

138 72.7 30.0 45.0#



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

23.82

300

200

100

0

Time-->