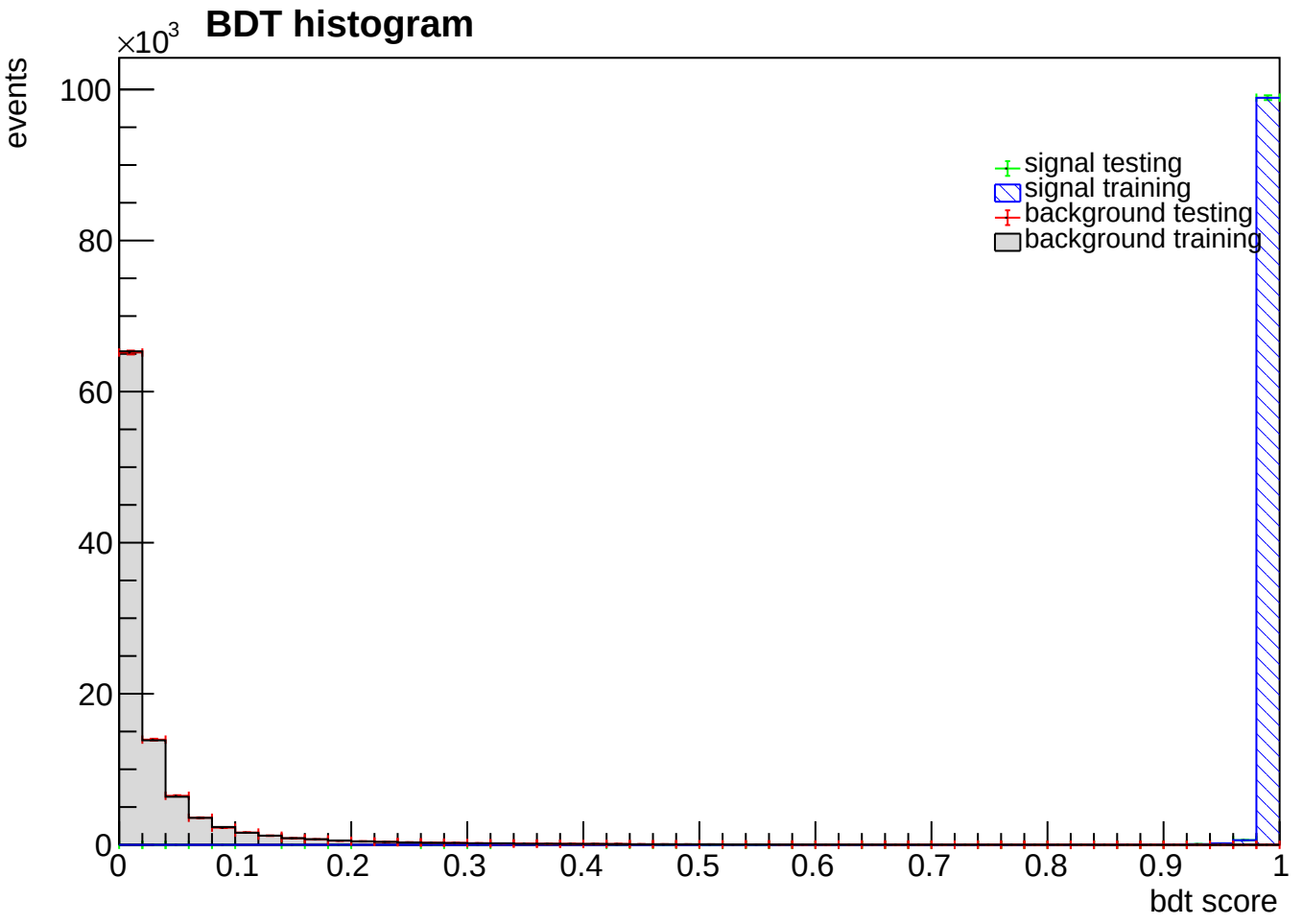
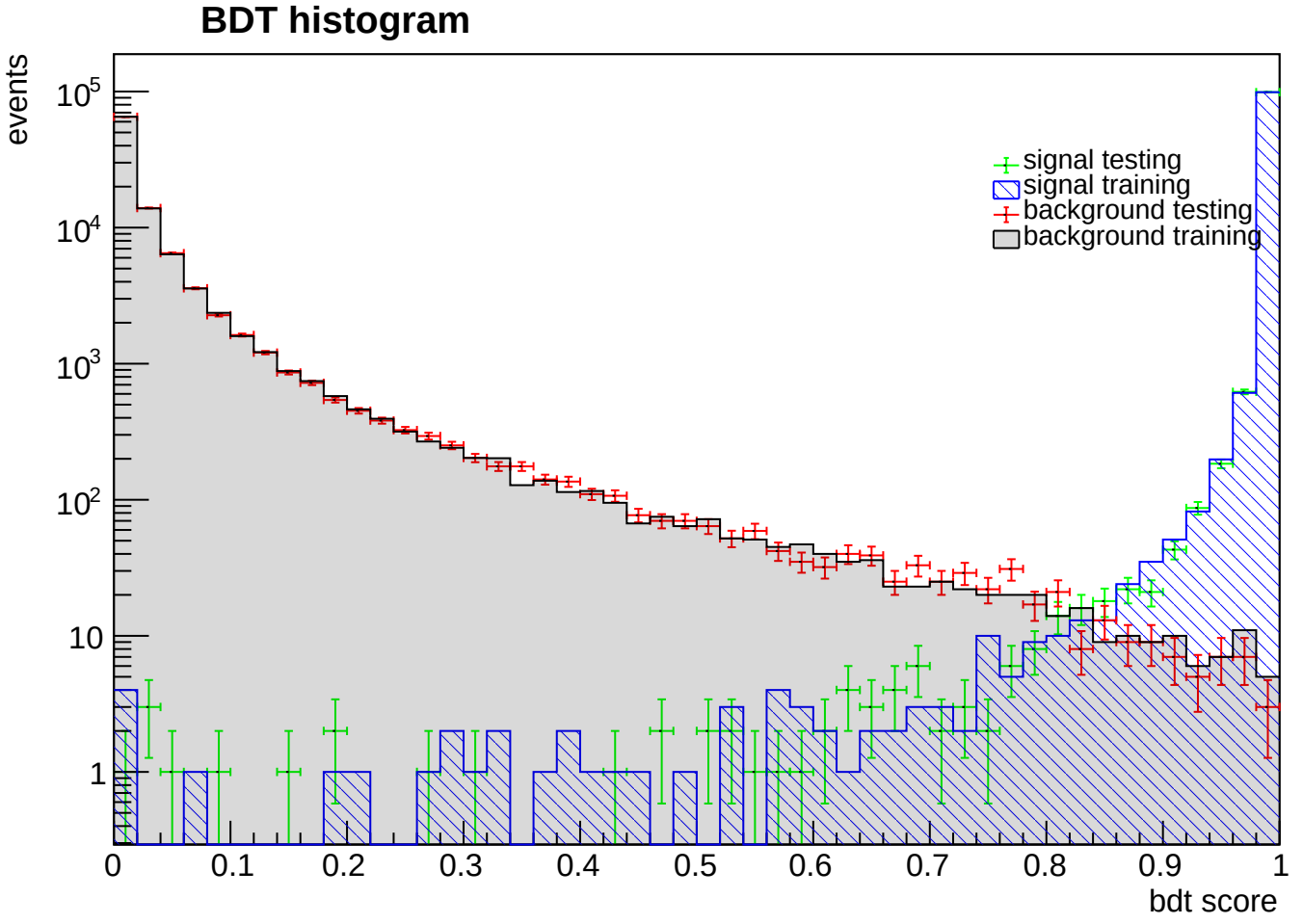
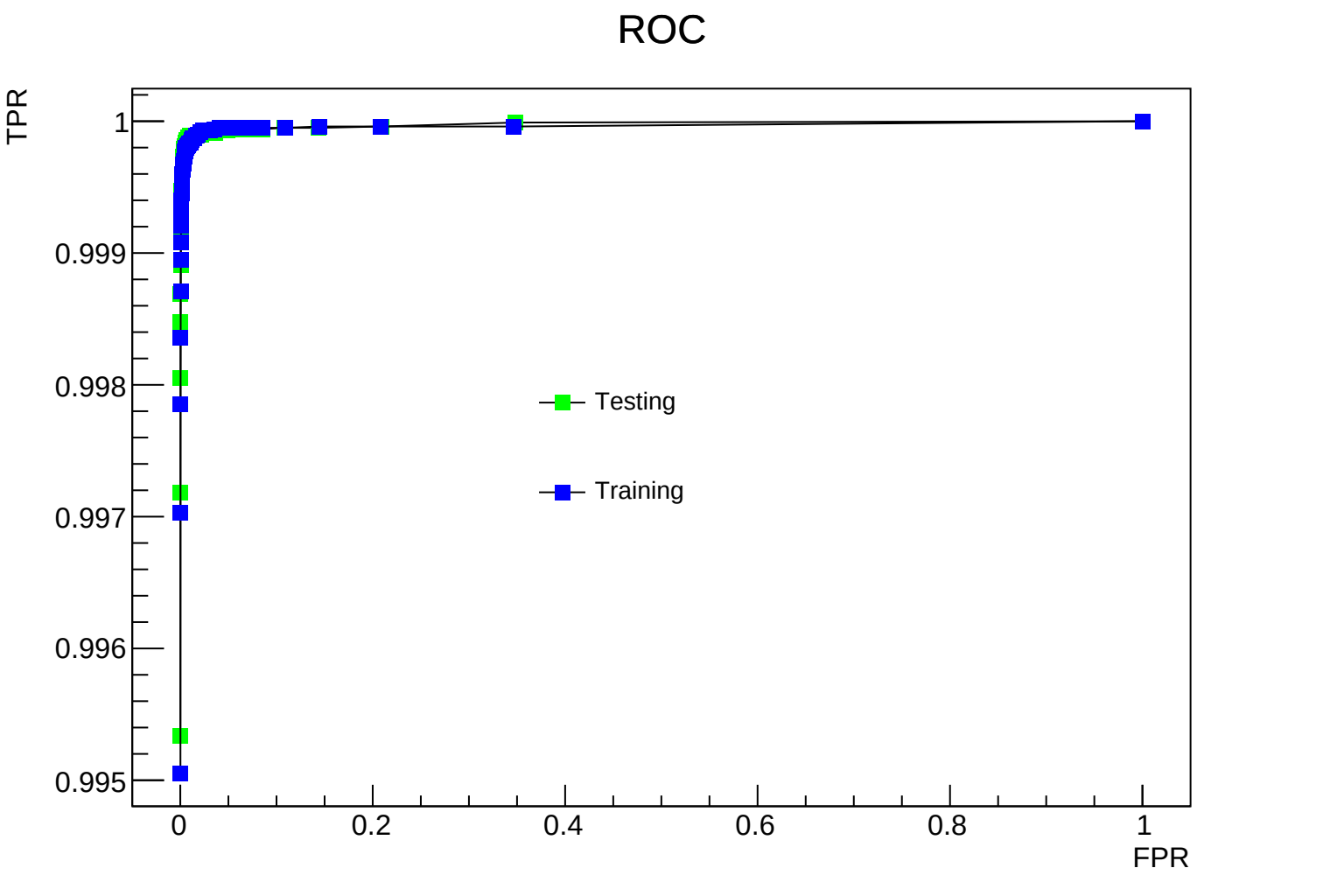
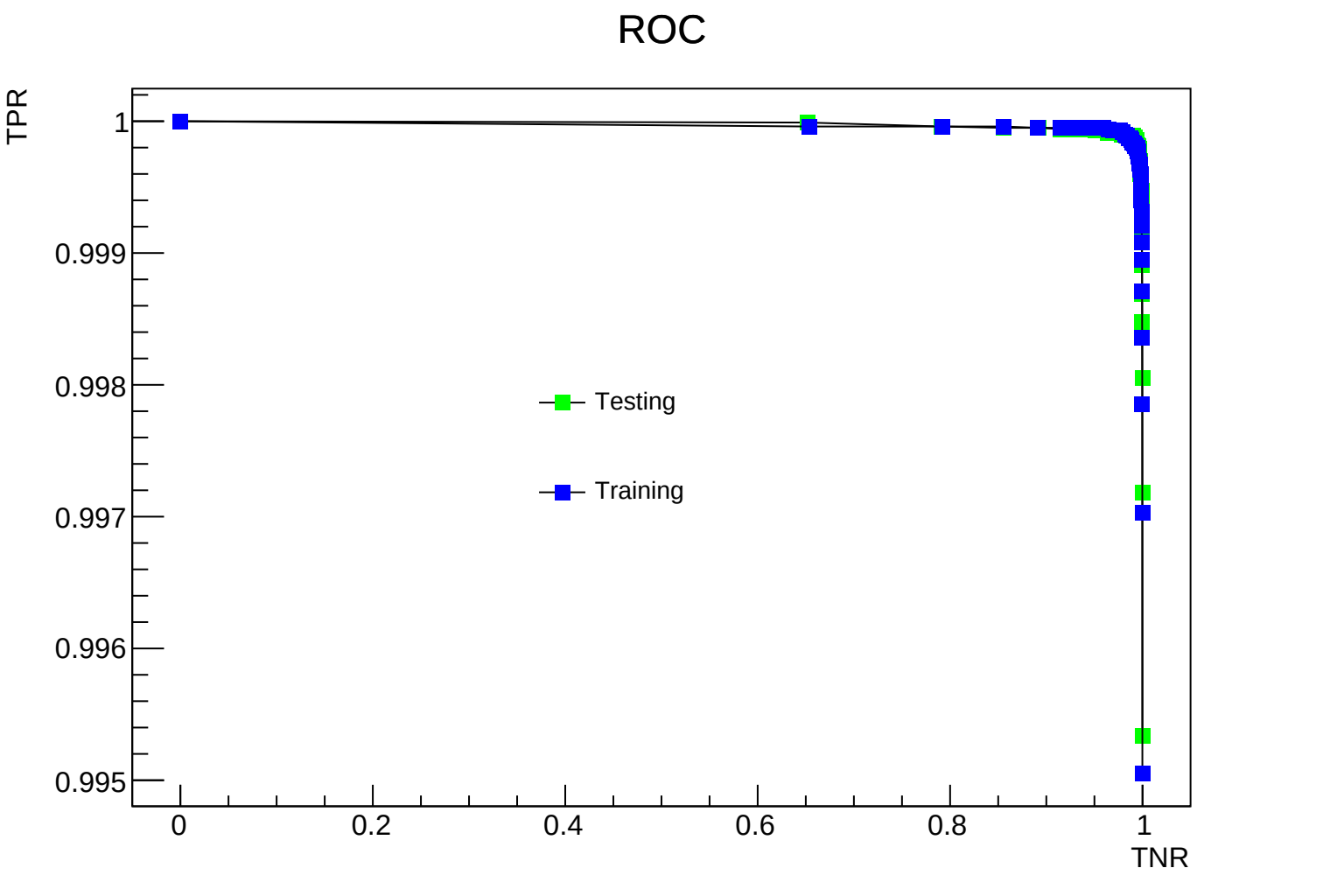
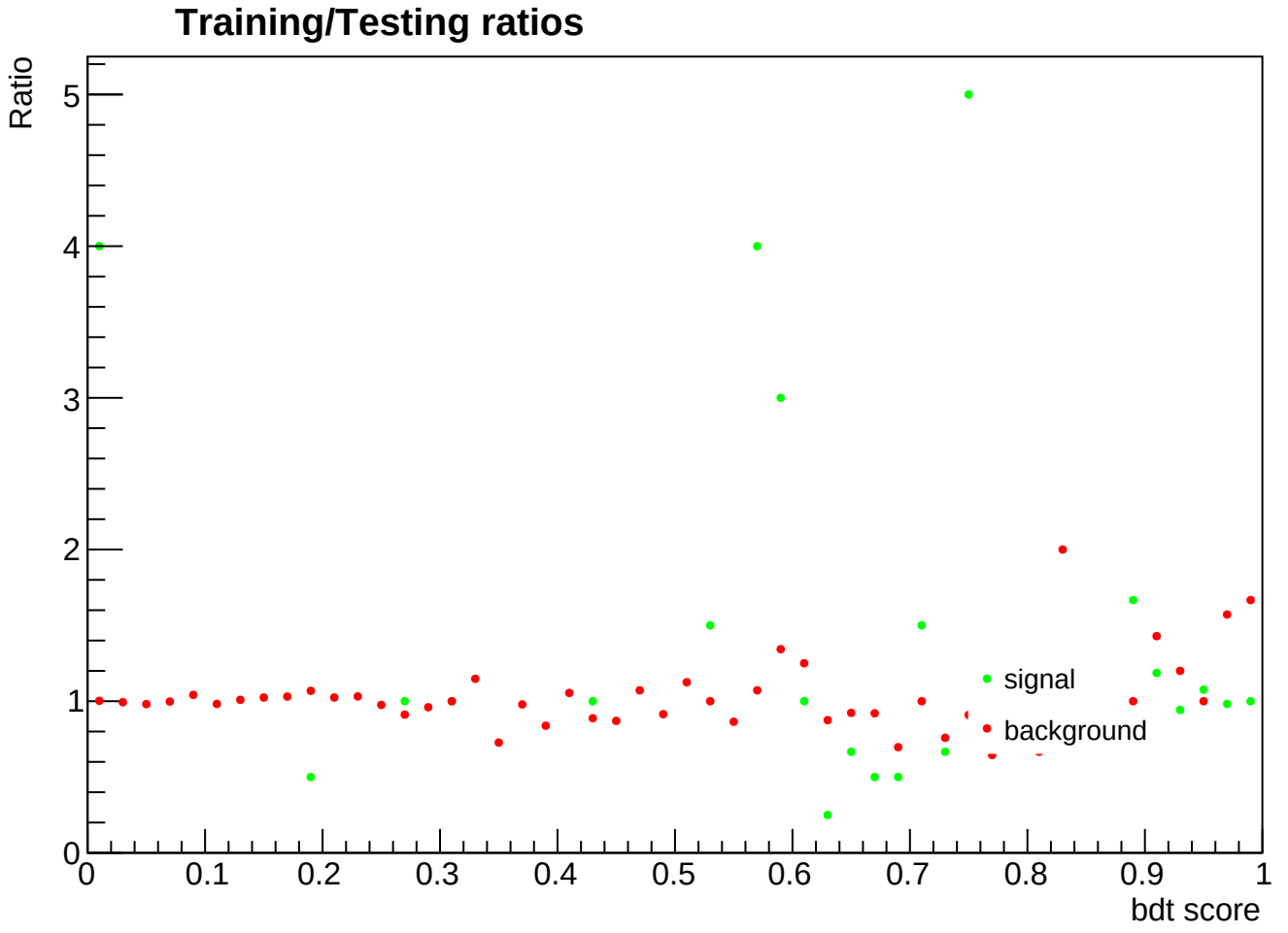
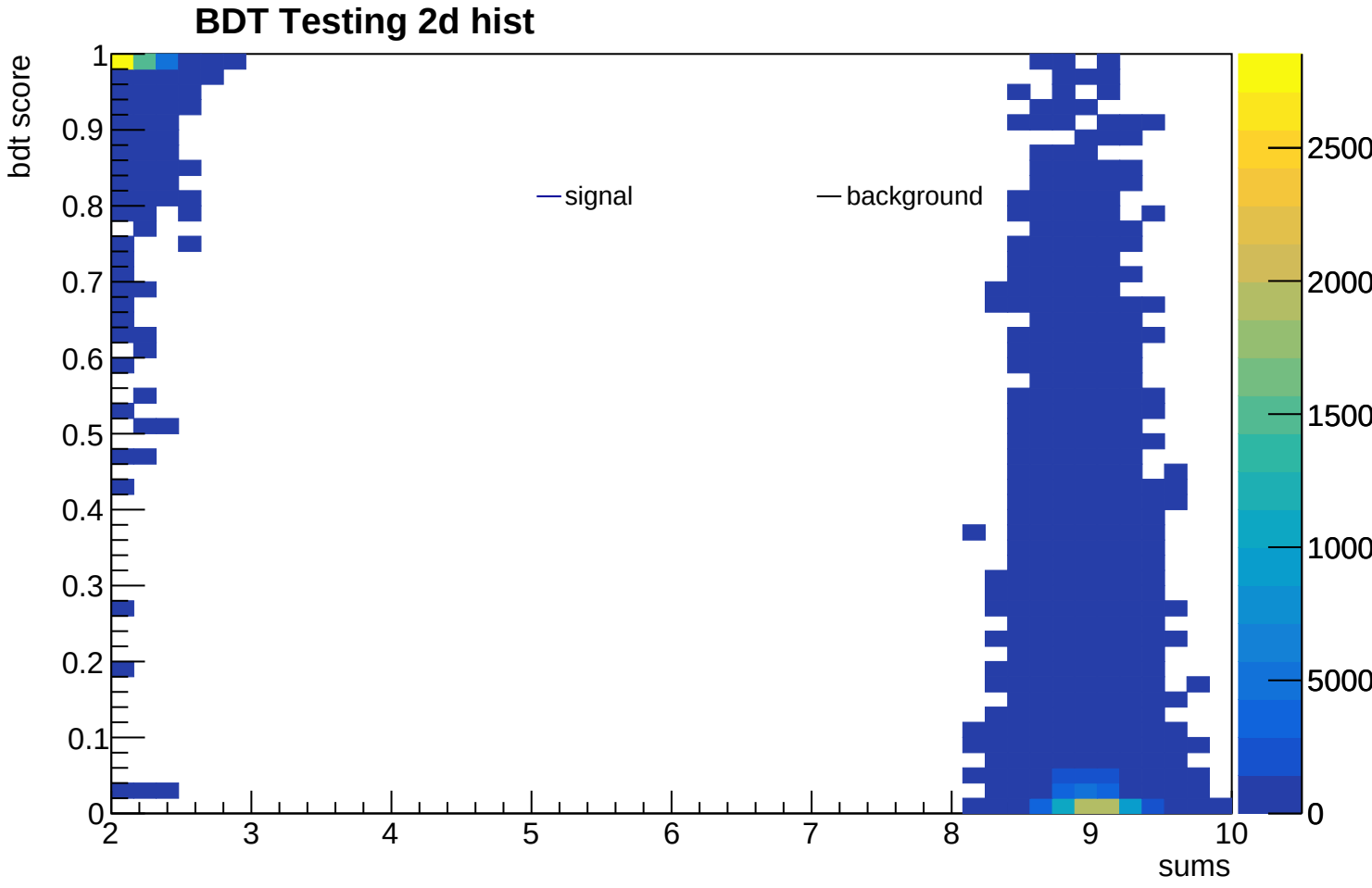

BDT histogram
×10^3
events
100
80
60
40
20
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


BDT histogram
events
10^5
10^4
10^3
10^2
10
1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


ROC
TPR
1
0.999
0.998
0.997
0.996
0.995
0
0.2
0.4
0.6
0.8
1
FPR
Testing
Training


ROC
TPR
1
0.999
0.998
0.997
0.996
0.995
0
0.2
0.4
0.6
0.8
1
TNR
Testing
Training


Training/Testing ratios
Ratio
0
1
2
3
4
5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal
background


BDT Testing 2d hist
bdt score
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
signal
background
2
3
4
5
6
7
8
9
10
sums
2500
2000
1500
1000
5000
0