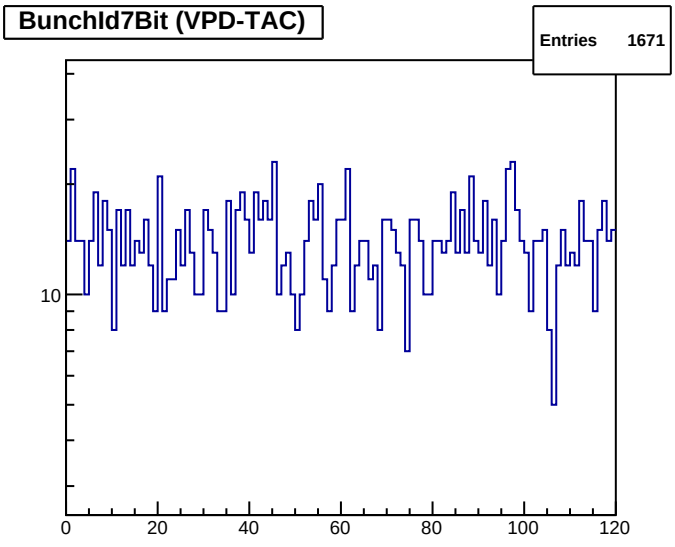
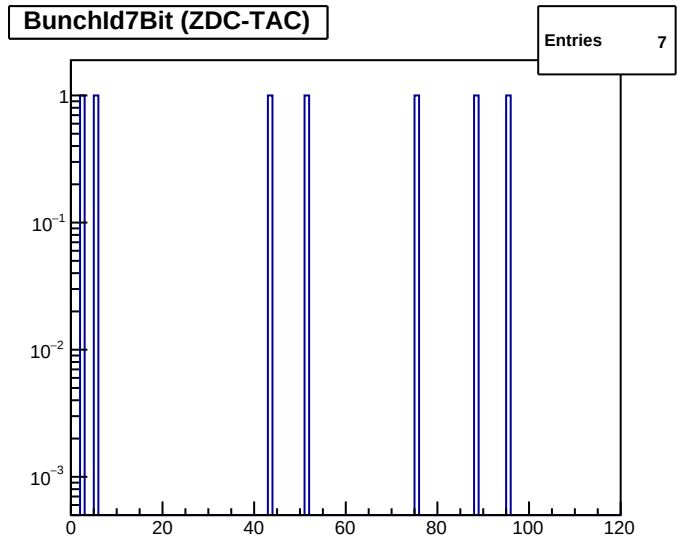
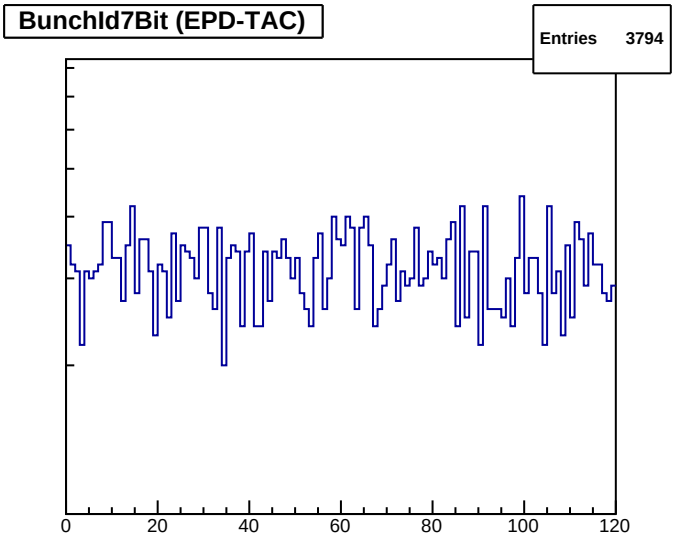
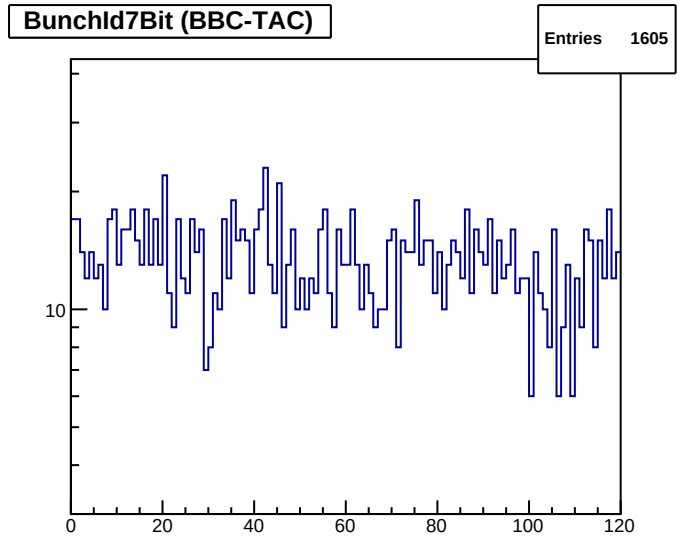
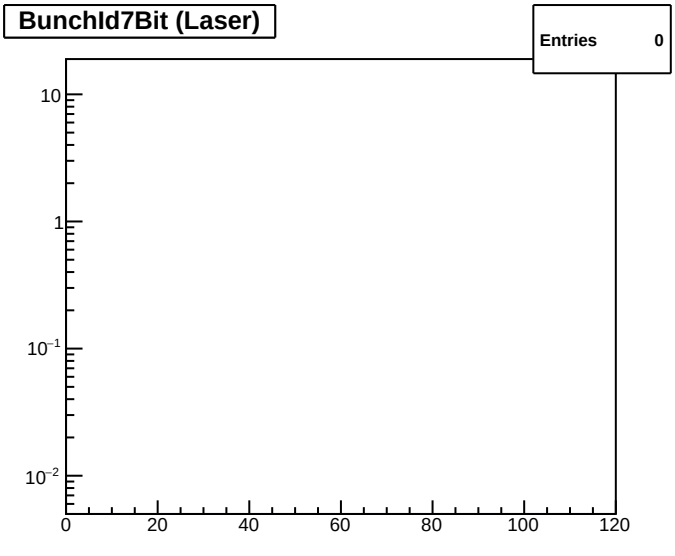
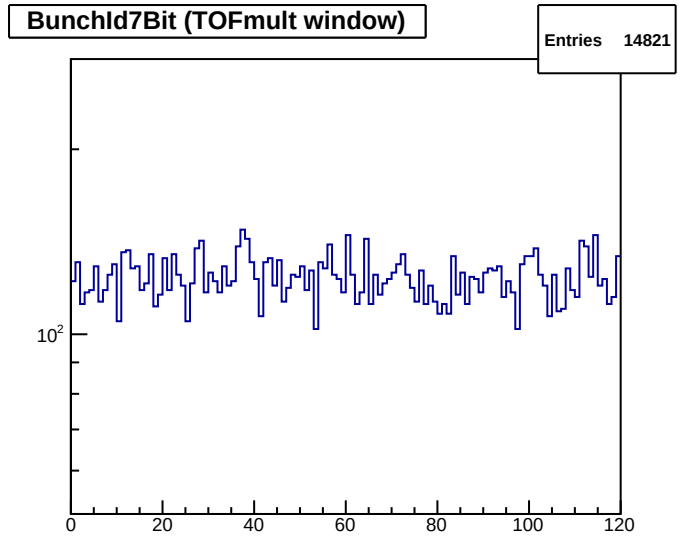

BunchId7Bit (VPD-TAC)
Entries 1671
10
0 20 40 60 80 100 120

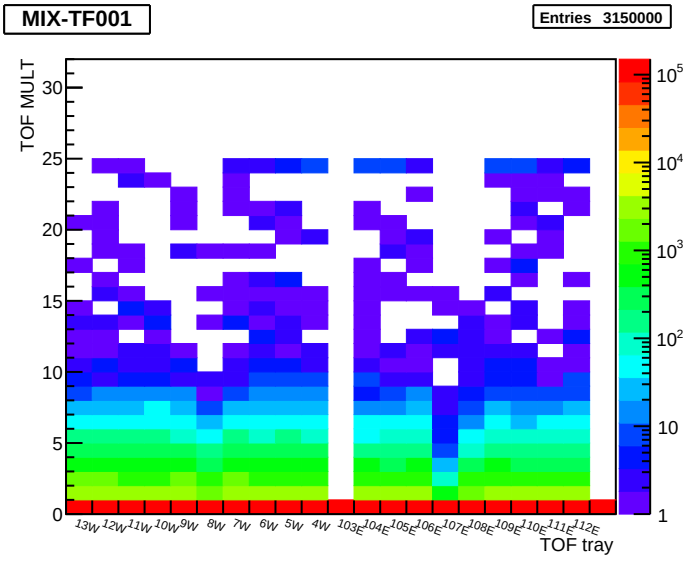

BunchId7Bit (ZDC-TAC)
Entries 7
1
10^{-1}
10^{-2}
10^{-3}
0 20 40 60 80 100 120

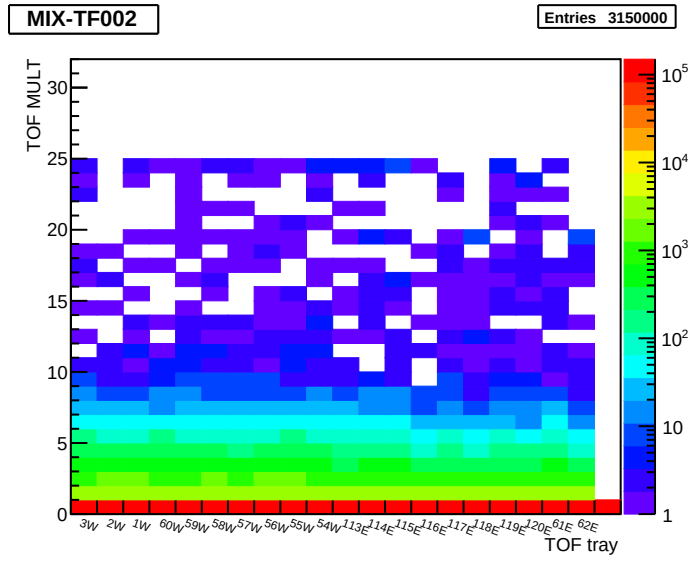

BunchId7Bit (EPD-TAC)
Entries 3794
0 20 40 60 80 100 120

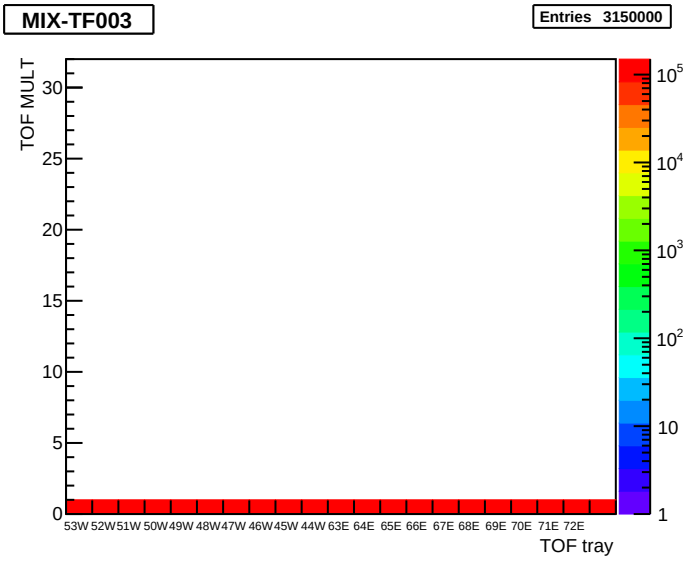

BunchId7Bit (BBC-TAC)
Entries 1605
10
0 20 40 60 80 100 120

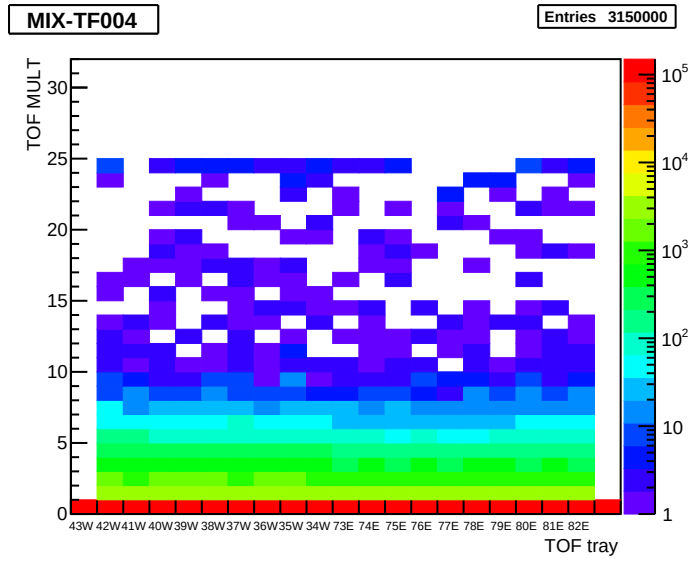

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

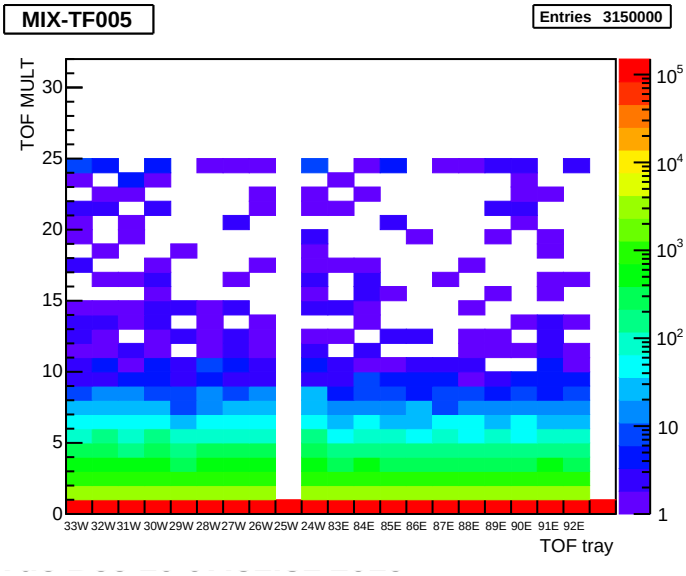

BunchId7Bit (TOFmult window)
Entries 14821
10^{2}
0 20 40 60 80 100 120

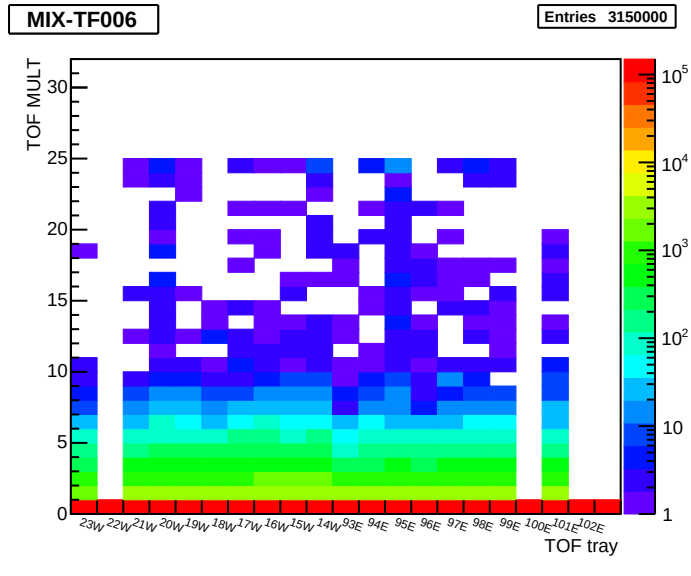

MIX-TF001
Entries 3150000
TOF MULT
TOF tray

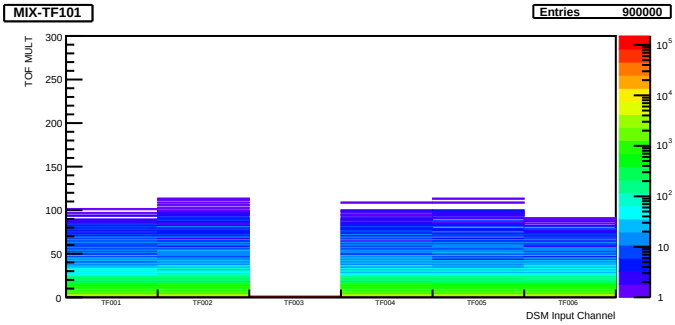

MIX-TF002
Entries 3150000
TOF MULT
TOF tray

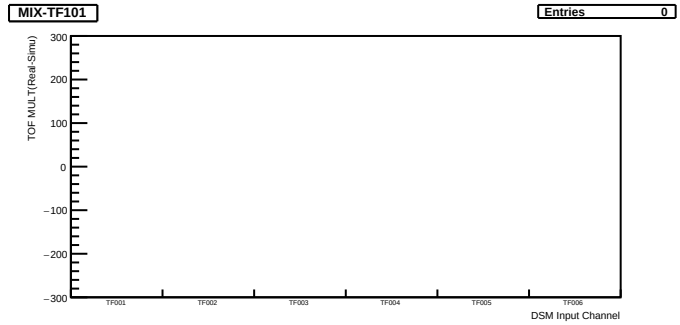

MIX-TF003
Entries 3150000
TOF MULT
TOF tray


MIX-TF004
Entries 3150000
TOF MULT
TOF tray

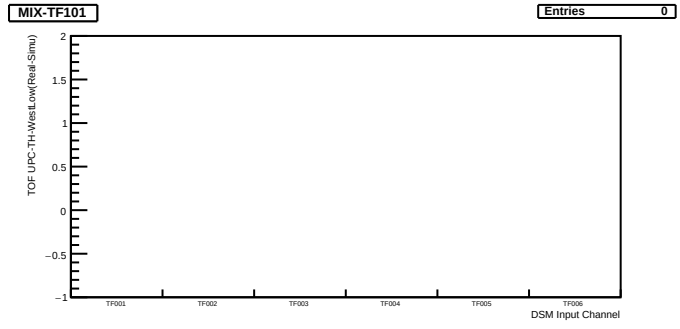

MIX-TF005
Entries 3150000
TOF MULT
TOF tray

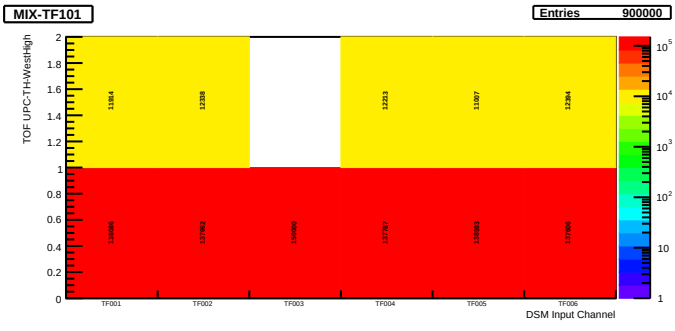

MIX-TF006
Entries 3150000
TOF MULT
TOF tray

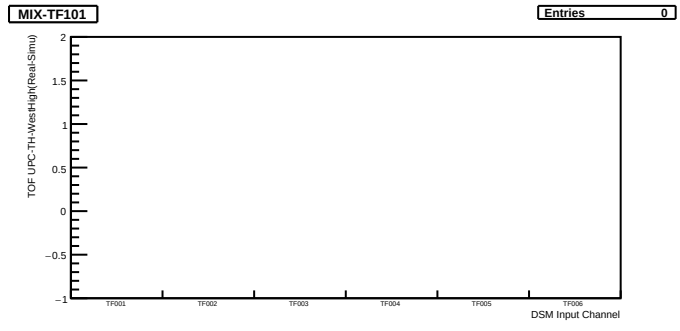

MIX-TF101
Entries 900000
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

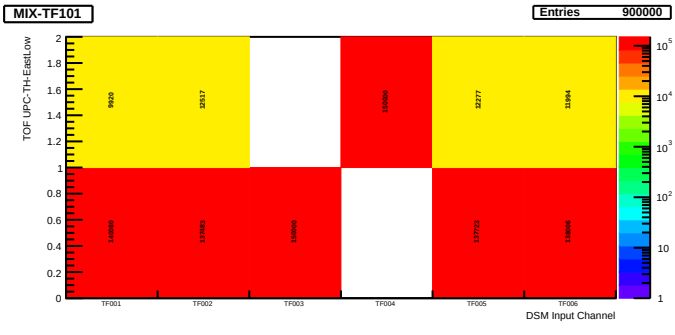

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

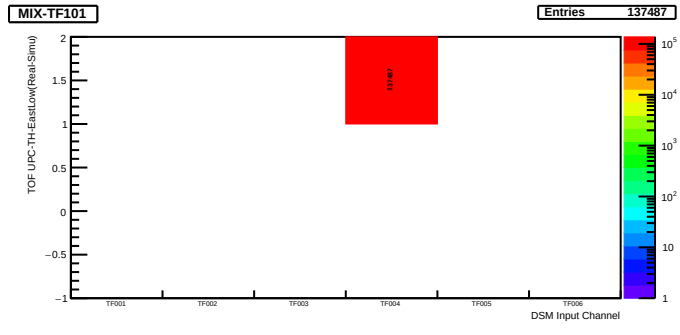
MIX-TF101
Entries 900000
TOF UPC-TH-WestLow
12325
12198
11181
11983
10571
137677
137862
150000
138939
138137
139429
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

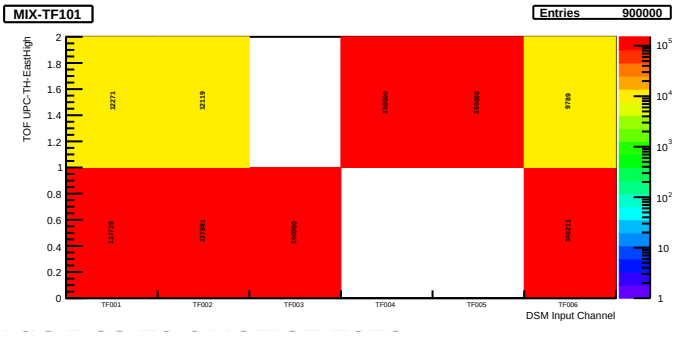

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

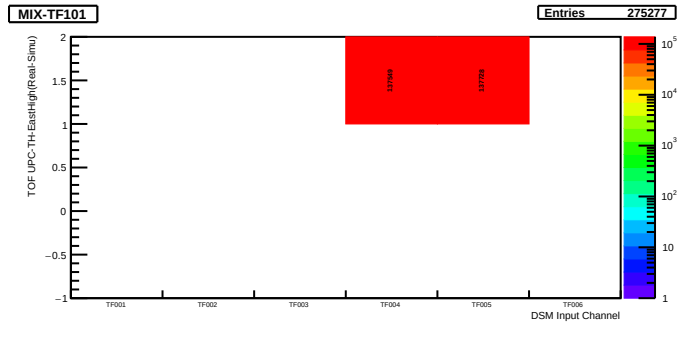

MIX-TF101
Entries 900000
TOF UPC-TH-WestHigh
11814
12388
12213
11507
12394
138886
137862
150000
137787
138863
137806
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

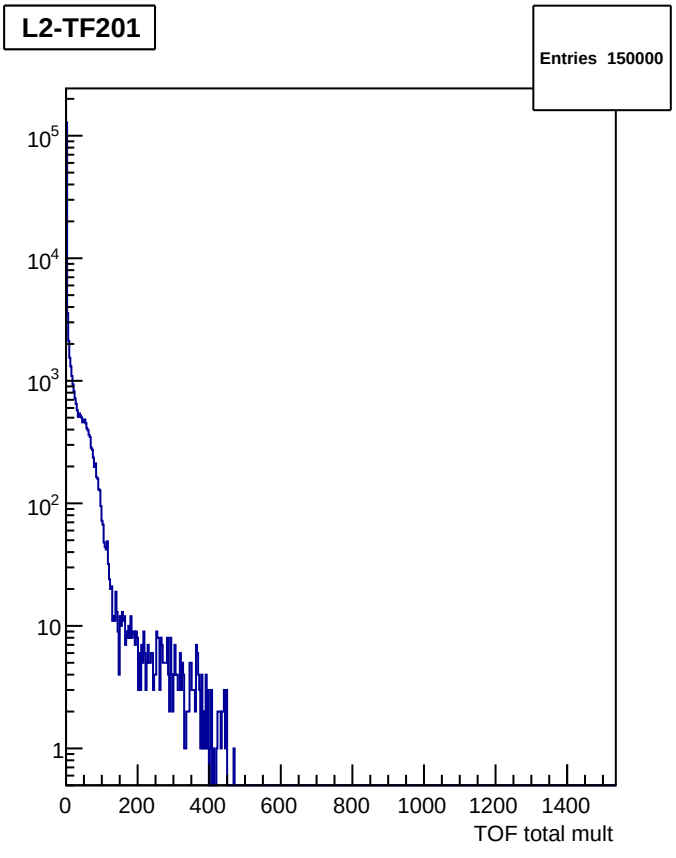

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

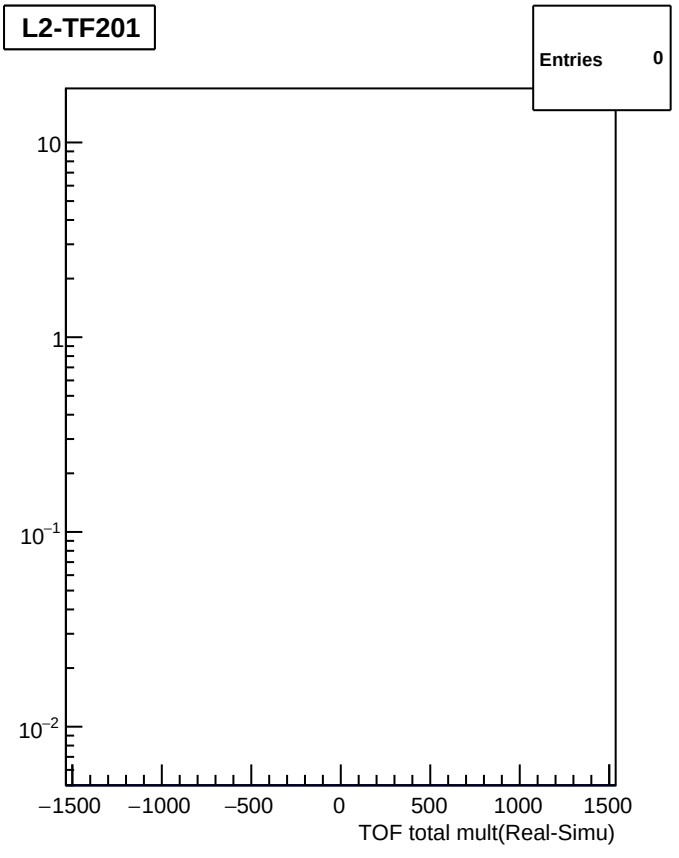

MIX-TF101
Entries 900000
TOF UPC-TH-EastLow
9925
12517
150000
12277
11994
140080
137683
150000
137723
138906
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

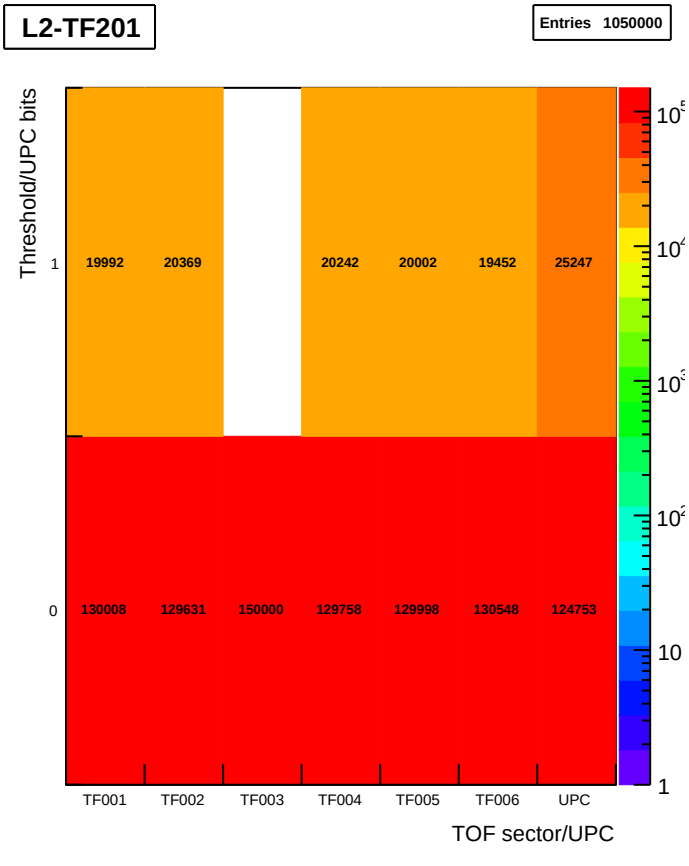

MIX-TF101
Entries 137487
TOF UPC-TH-EastLow(Real-Simu)
137487
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

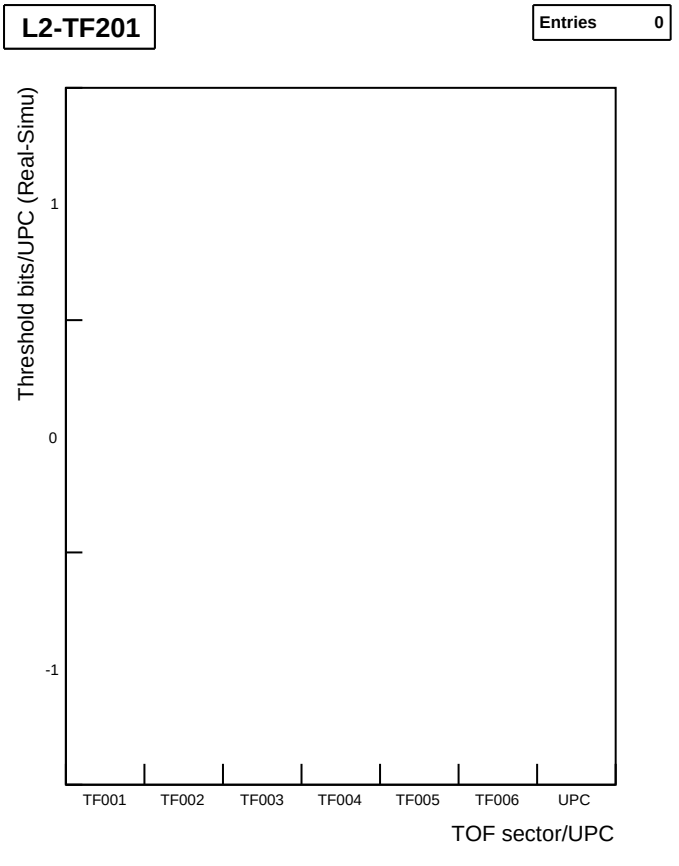

MIX-TF101
Entries 900000
TOF UPC-TH-EastHigh
12271
12119
150000
150000
9789
137729
137851
150000
140211
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

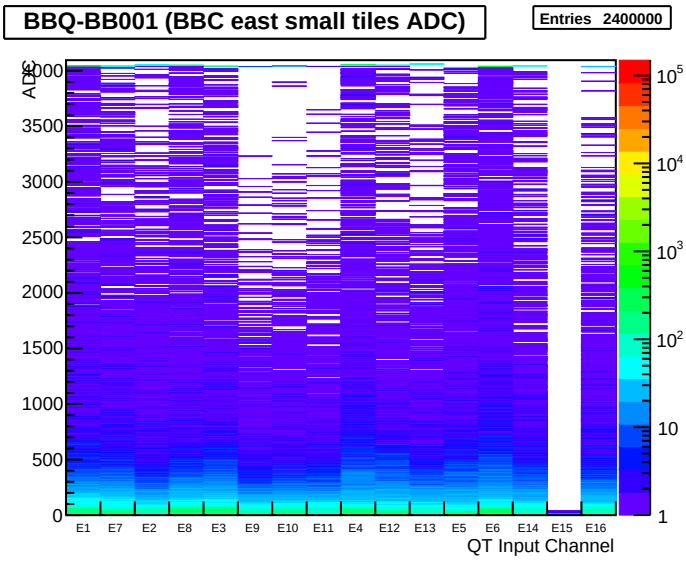

MIX-TF101
Entries 275277
TOF UPC-TH-EastHigh(Real-Simu)
137569
137728
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

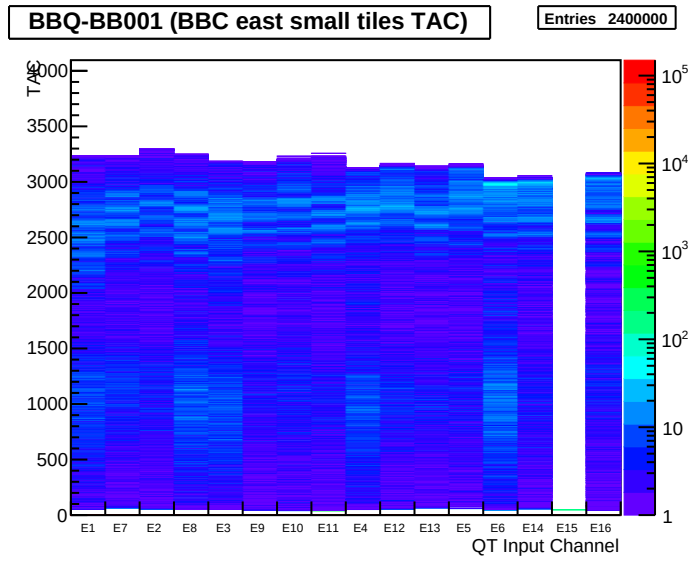

L2-TF201
Entries 150000
TOF total mult

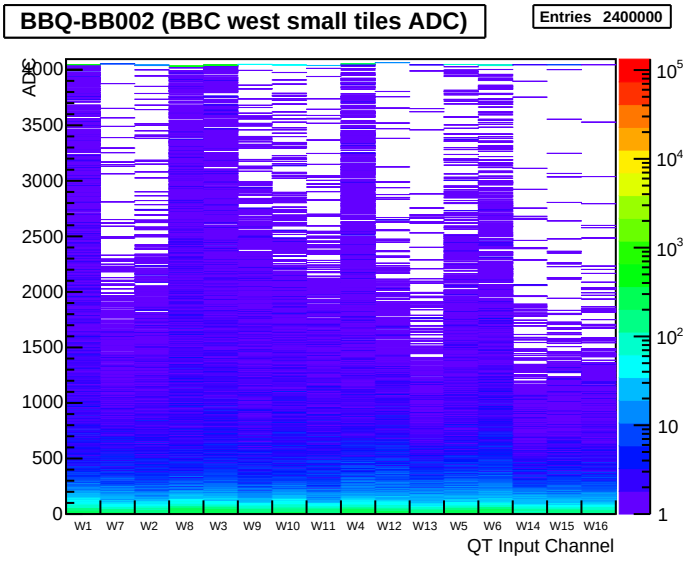

L2-TF201
Entries 0
TOF total mult(Real-Simu)

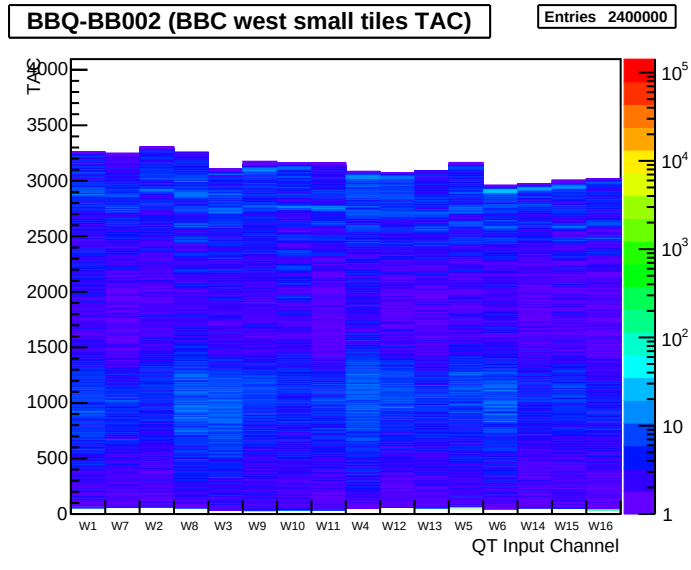

L2-TF201
Entries 1050000
Threshold/UPC bits
19992
20369
20242
20002
19452
25247
130008
129631
150000
129758
129998
130548
124753
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

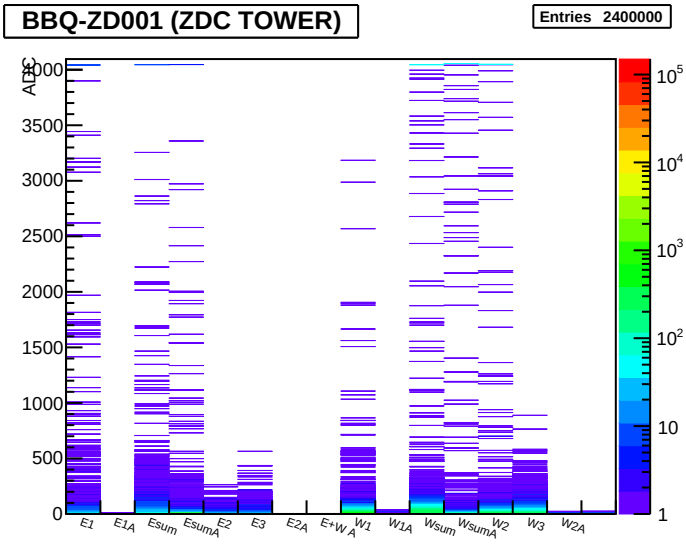

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

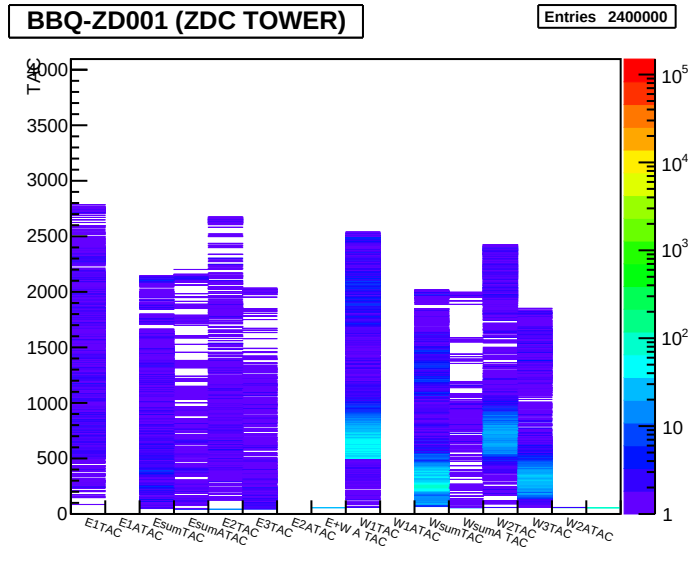

BBQ-BB001 (BBC east small tiles ADC)
Entries 2400000
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

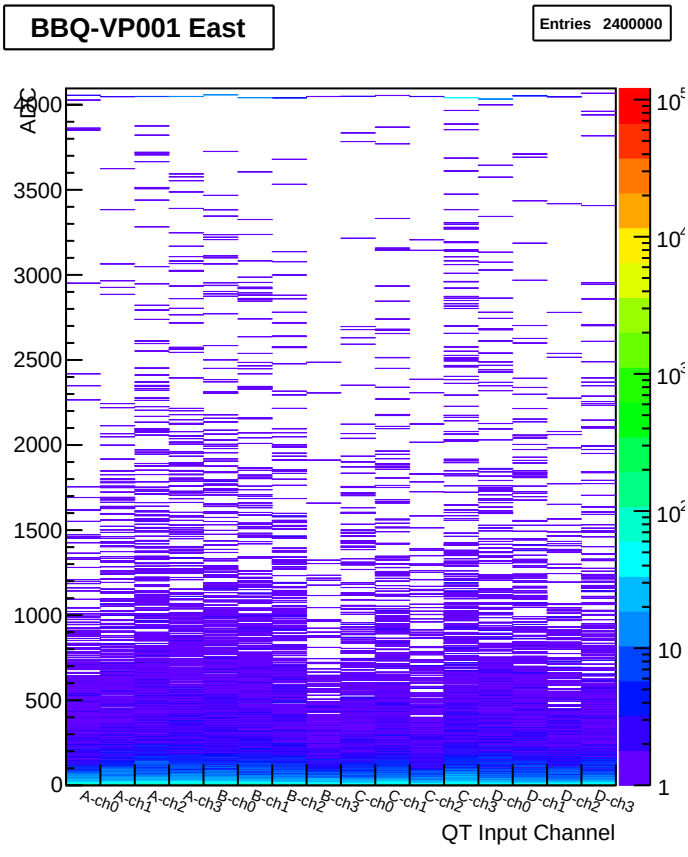

BBQ-BB001 (BBC east small tiles TAC)
Entries 2400000
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

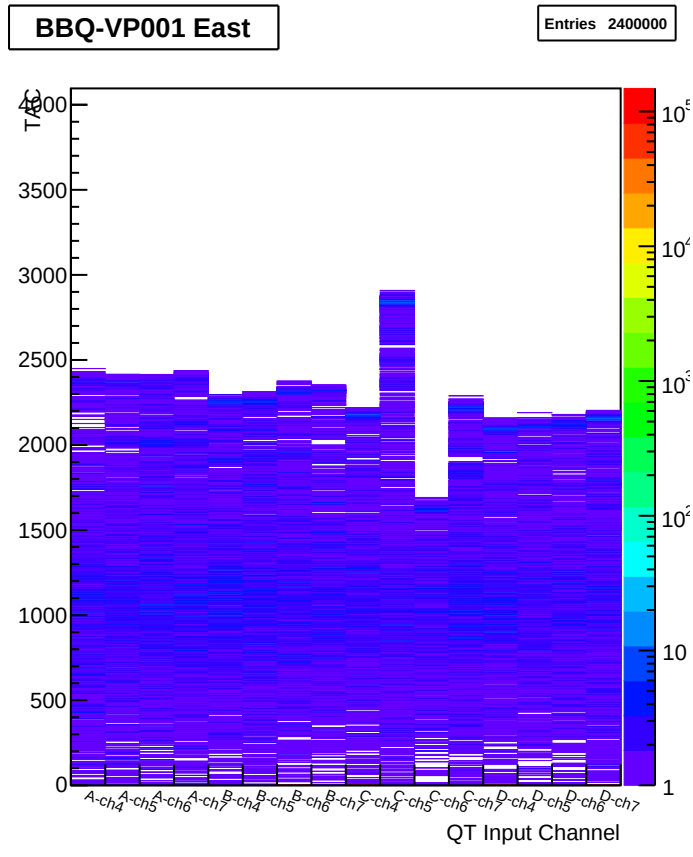

BBQ-BB002 (BBC west small tiles ADC)
Entries 2400000
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

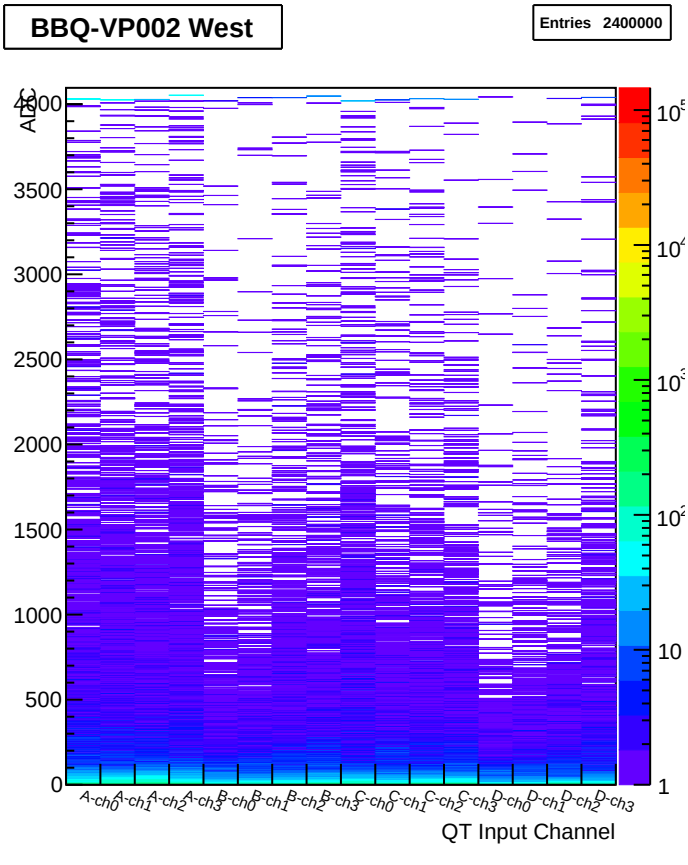

BBQ-BB002 (BBC west small tiles TAC)
Entries 2400000
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

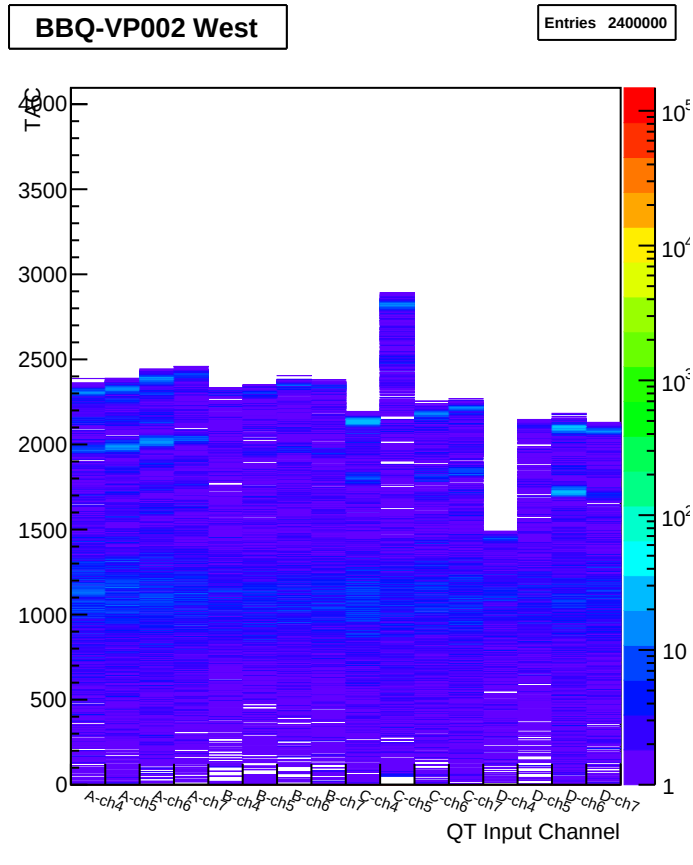

BBQ-ZD001 (ZDC TOWER)
Entries 2400000
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

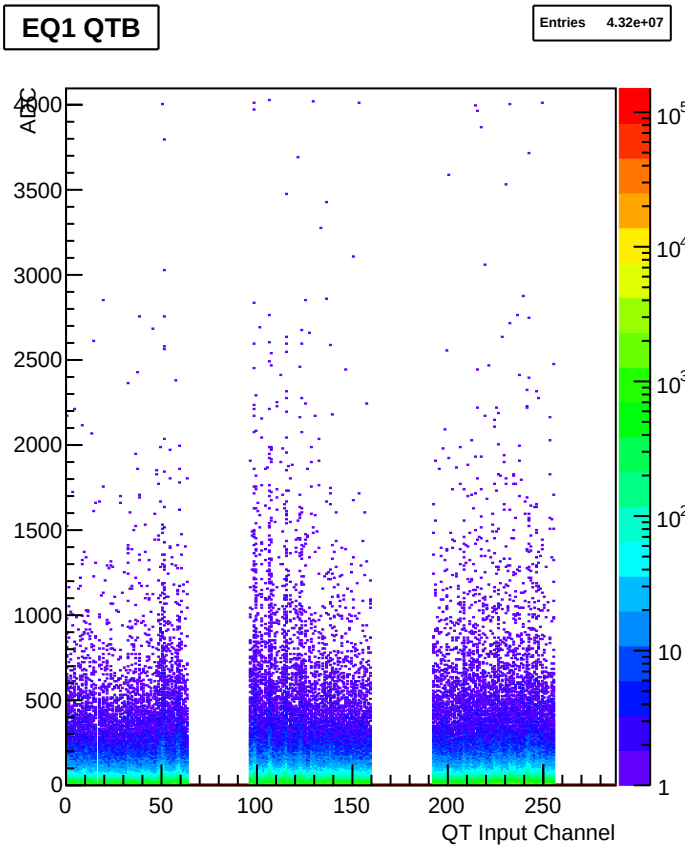

BBQ-ZD001 (ZDC TOWER)
Entries 2400000
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

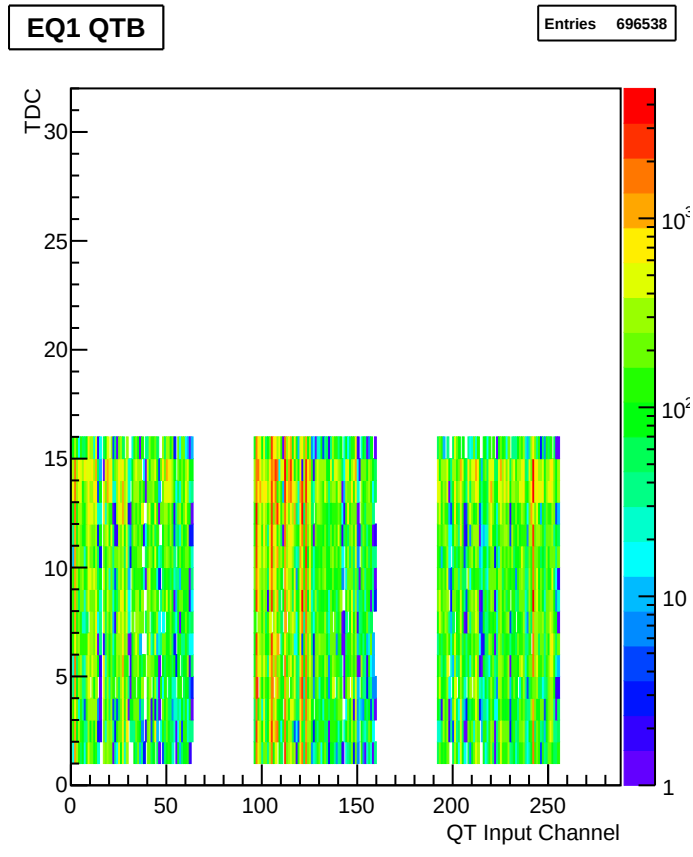

BBQ-VP001 East
Entries 2400000
ADC
QT Input Channel

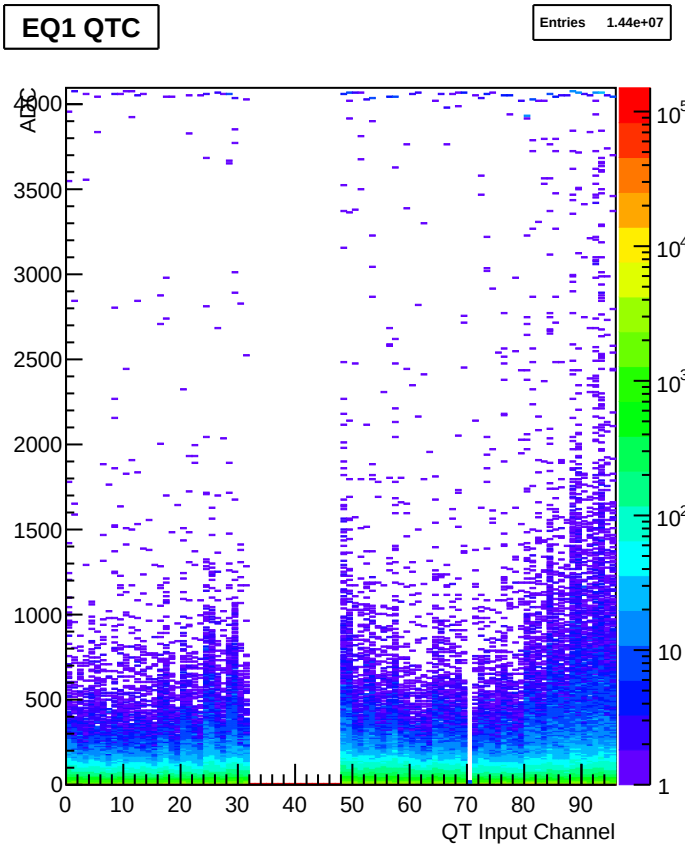

BBQ-VP001 East
Entries 2400000
TADC
QT Input Channel

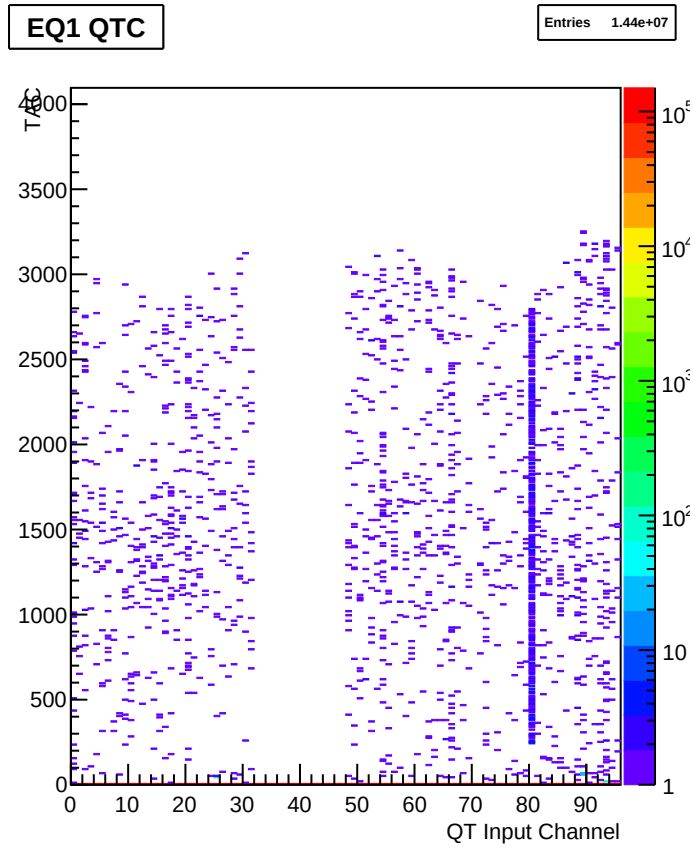

BBQ-VP002 West
Entries 2400000
ADC
QT Input Channel

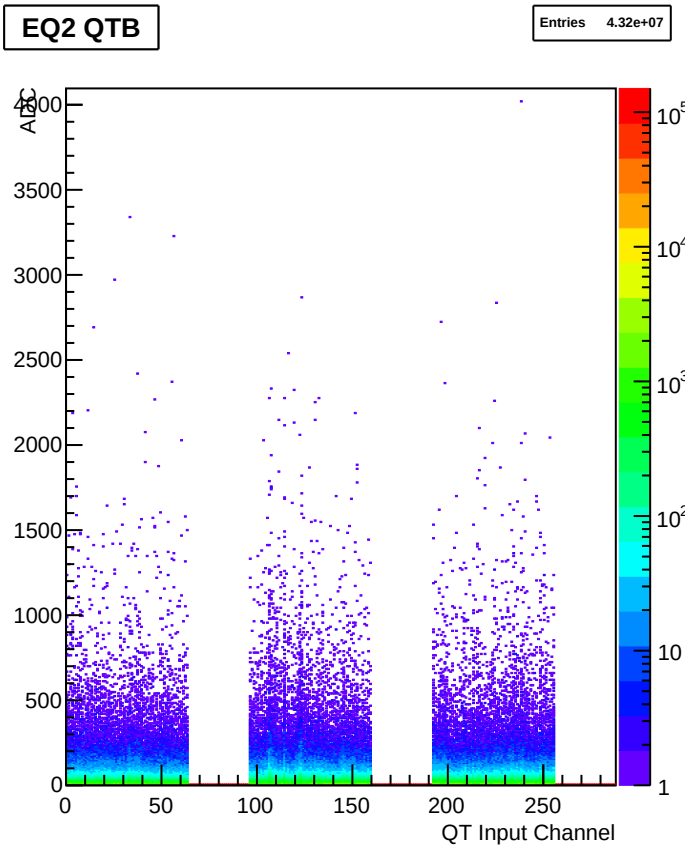

BBQ-VP002 West
Entries 2400000
TADC
QT Input Channel

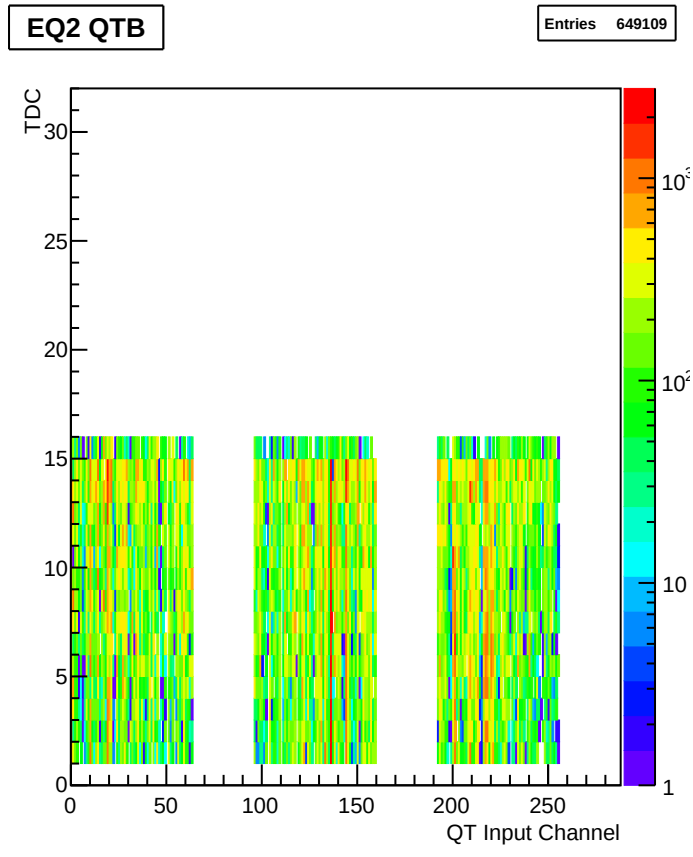

EQ1 QTB
Entries 4.32e+07
ADC
QT Input Channel

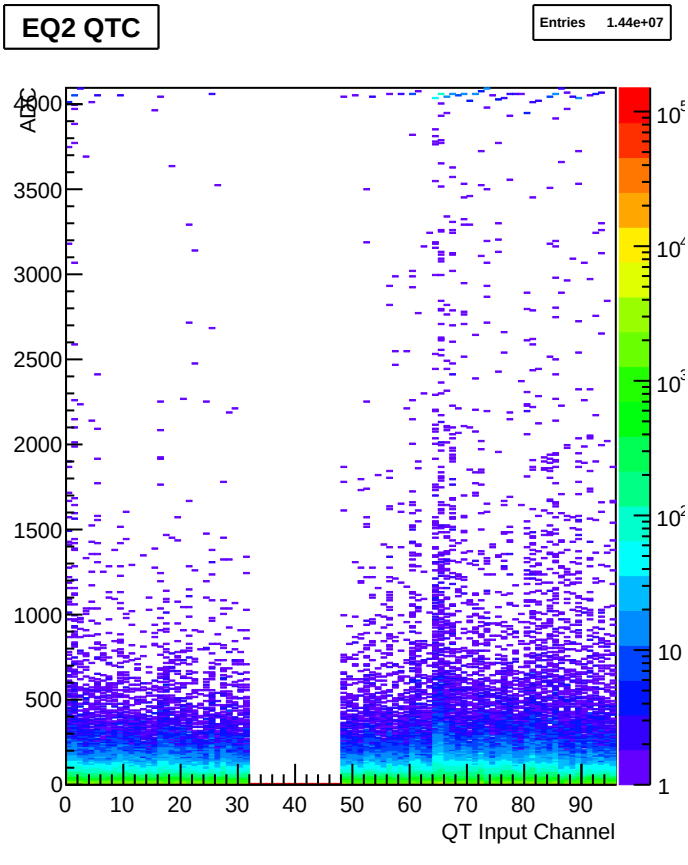

EQ1 QTB
Entries 696538
TDC
QT Input Channel

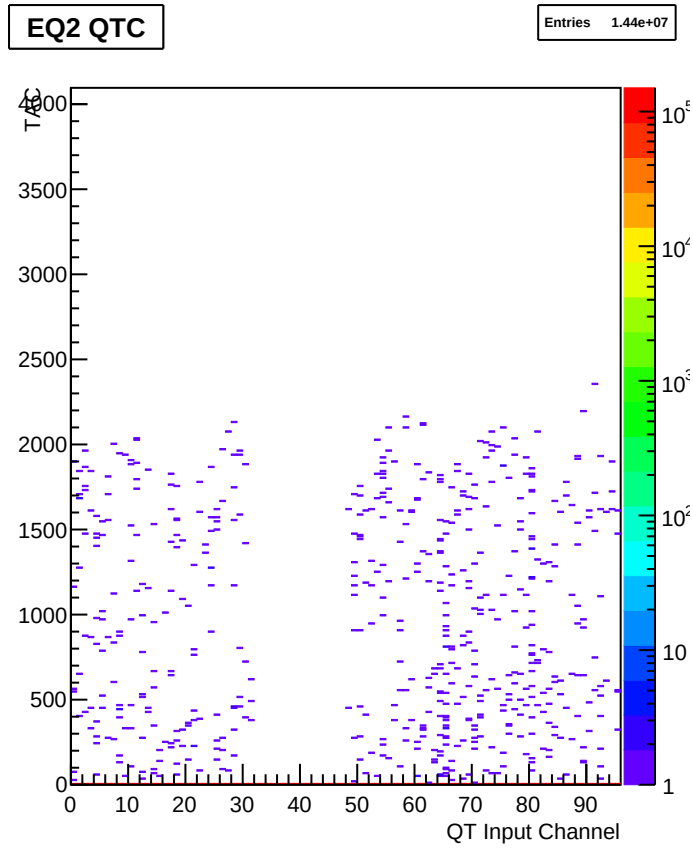

EQ1 QTC
Entries 1.44e+07
ADC
QT Input Channel

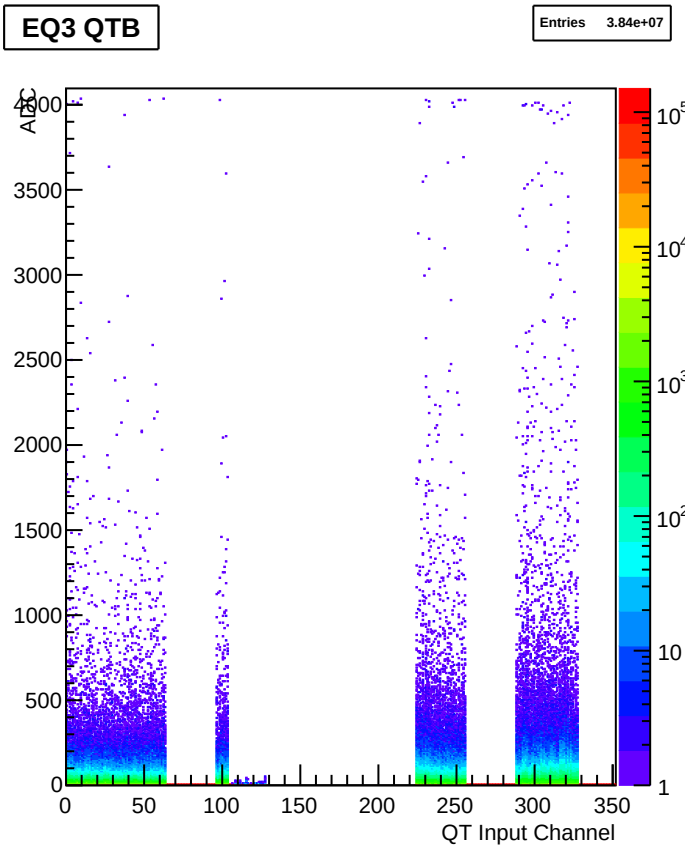

EQ1 QTC
Entries 1.44e+07
TADC
QT Input Channel

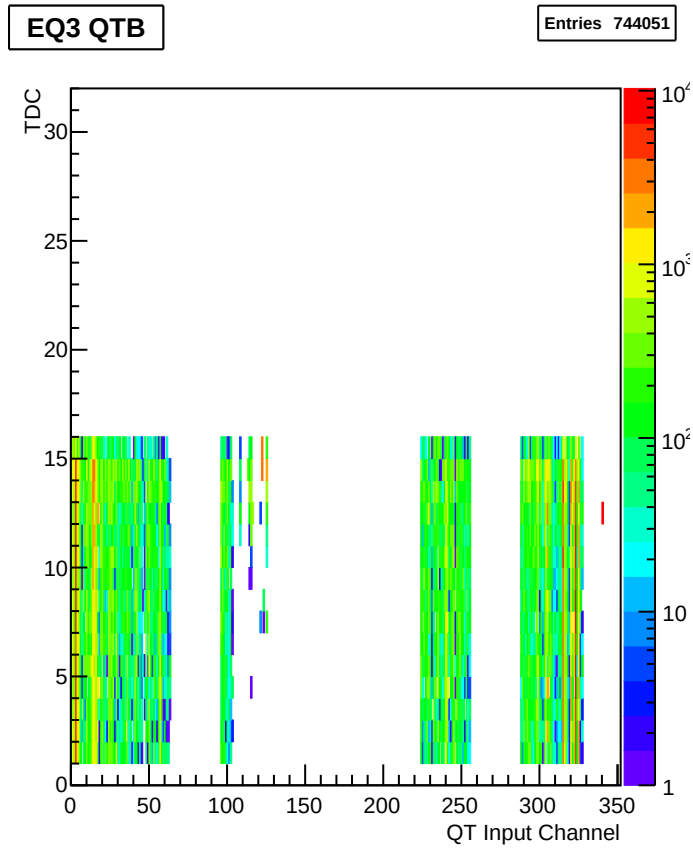

EQ2 QTB
Entries 4.32e+07
ADC
QT Input Channel

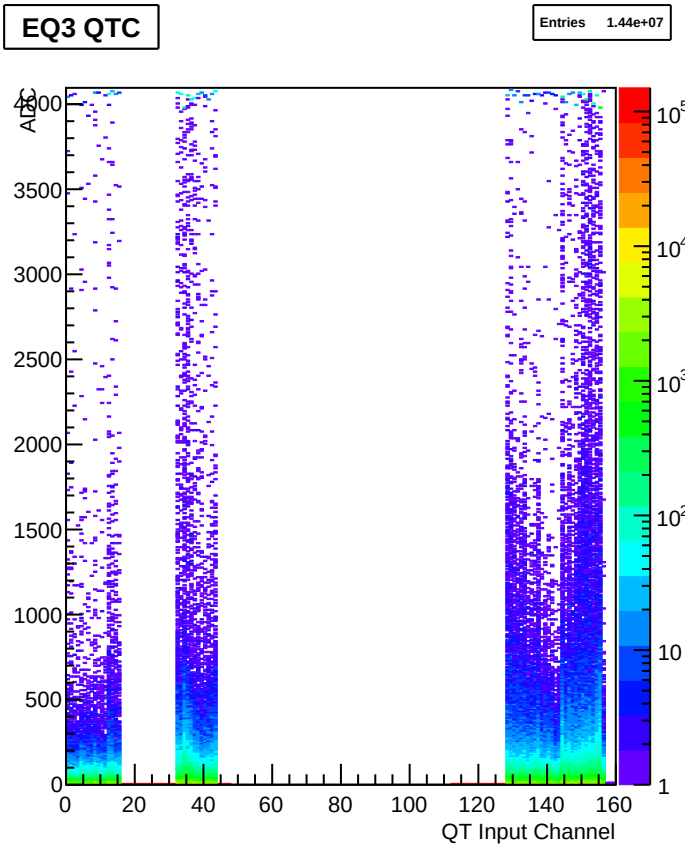

EQ2 QTB
Entries 649109
TDC
QT Input Channel

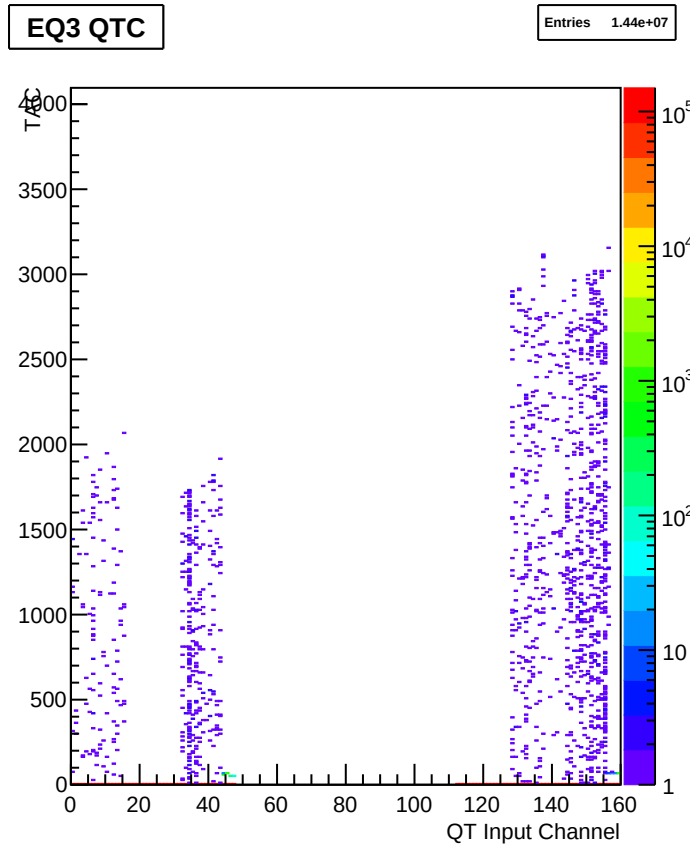

EQ2 QTC
Entries 1.44e+07
ADC
QT Input Channel

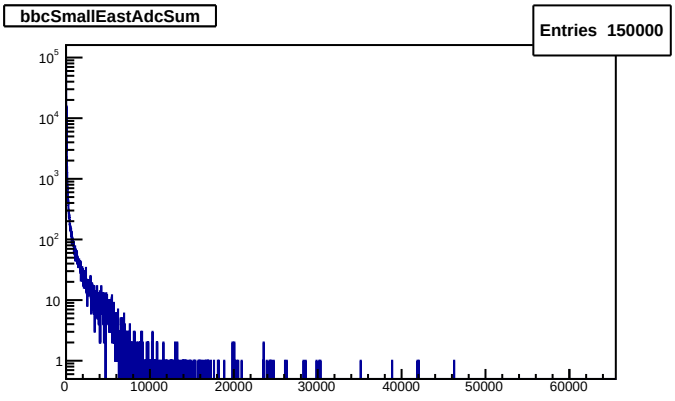

EQ2 QTC
Entries 1.44e+07
TADC
QT Input Channel

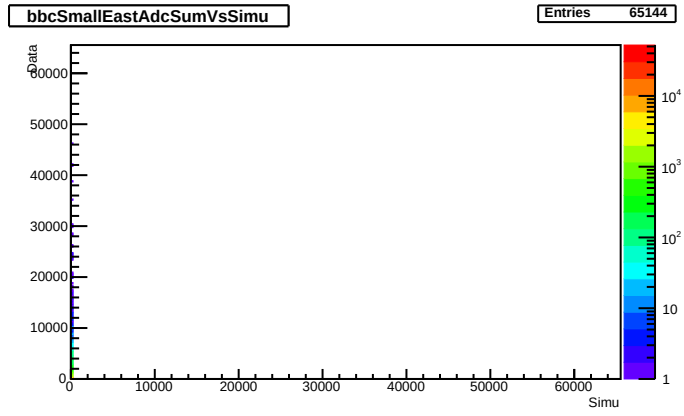

EQ3 QTB
Entries 3.84e+07
ADC
QT Input Channel

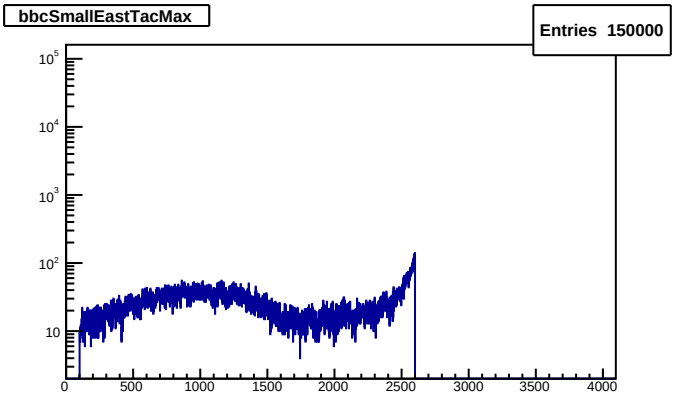

EQ3 QTB
Entries 744051
TDC
QT Input Channel

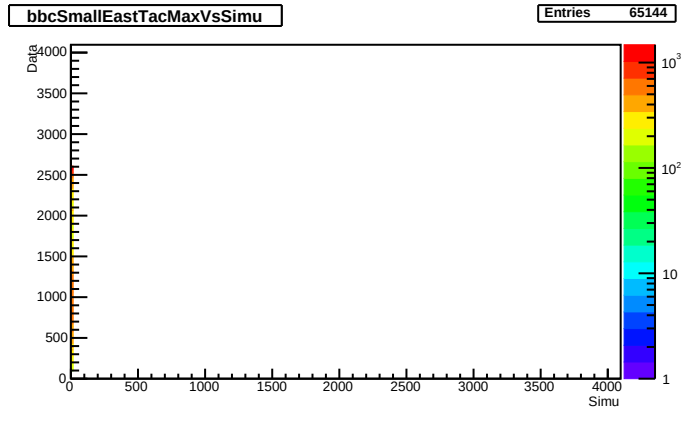

EQ3 QTC
Entries 1.44e+07
ADC
QT Input Channel

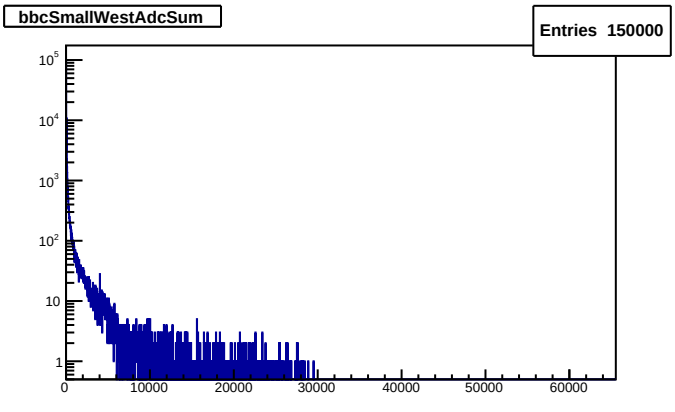

EQ3 QTC
Entries 1.44e+07
TADC
QT Input Channel

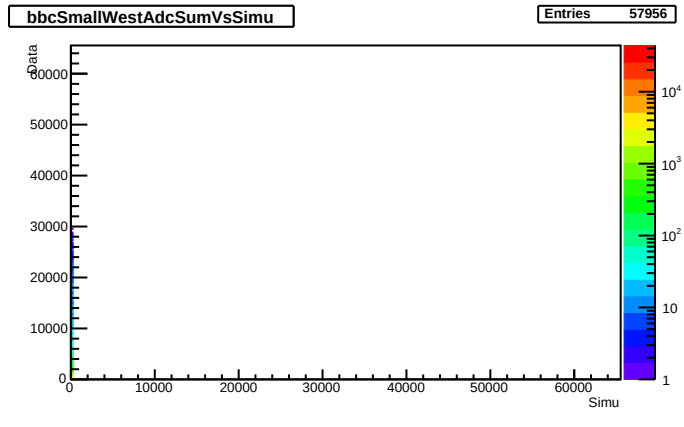

bbcSmallEastAdcSum
Entries 150000


bbcSmallEastAdcSumVsSimu
Entries 65144
Data
Simu


bbcSmallEastTacMax
Entries 150000


bbcSmallEastTacMaxVsSimu
Entries 65144
Data
Simu


bbcSmallWestAdcSum
Entries 150000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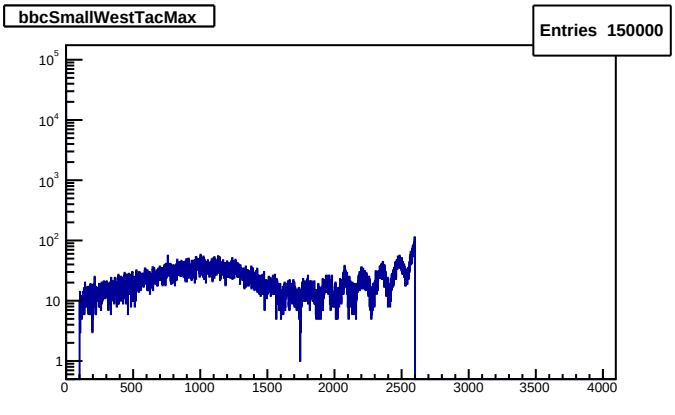
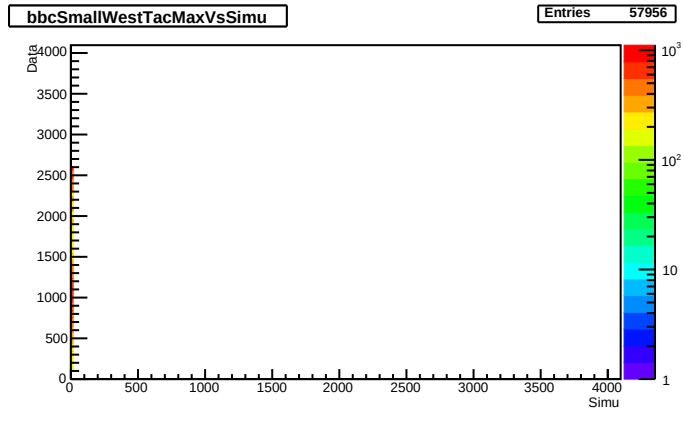
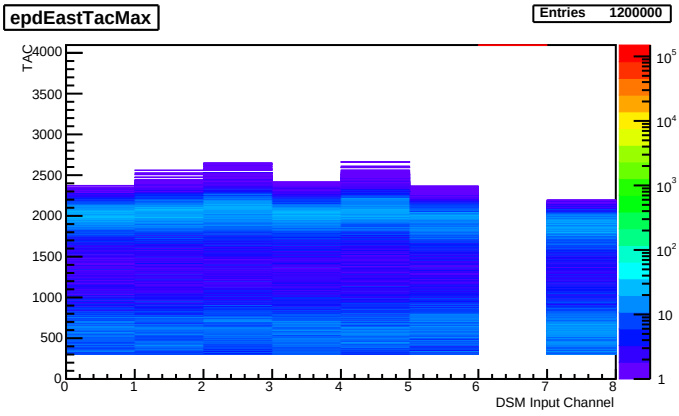
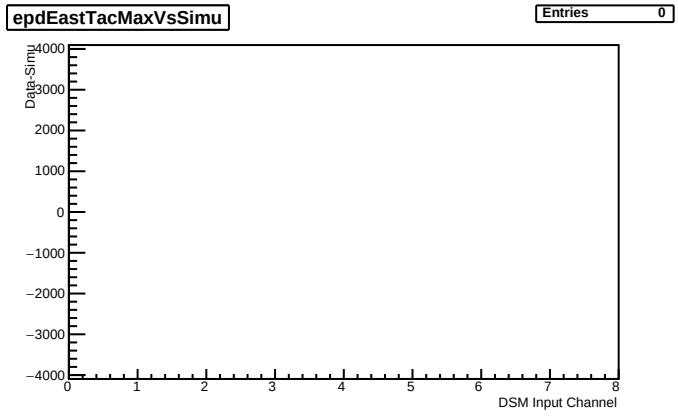
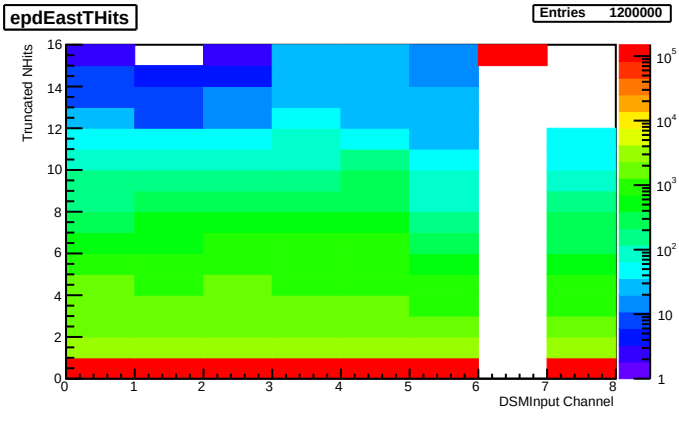
Entries 57956
Data
Simu

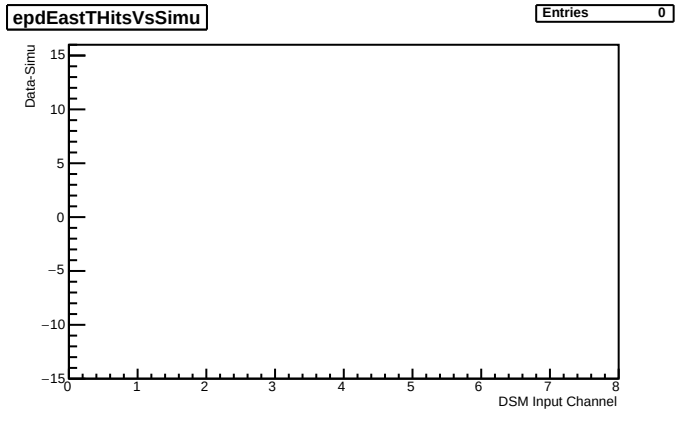

bbcSmallWestTacMax
Entries 150000

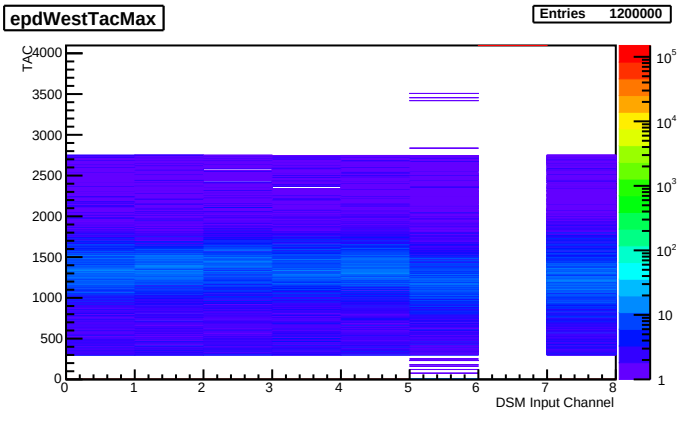

bbcSmallWestTacMaxVsSimu
Entries 57956
Data
Simu


epdEastTacMax
Entries 1200000
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 1200000
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel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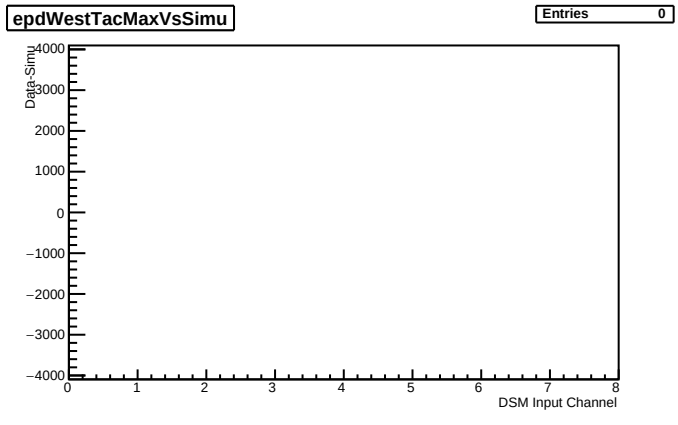
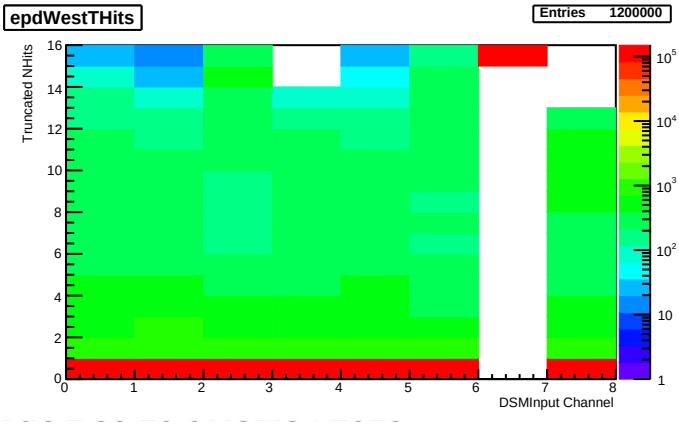
Entries 1200000
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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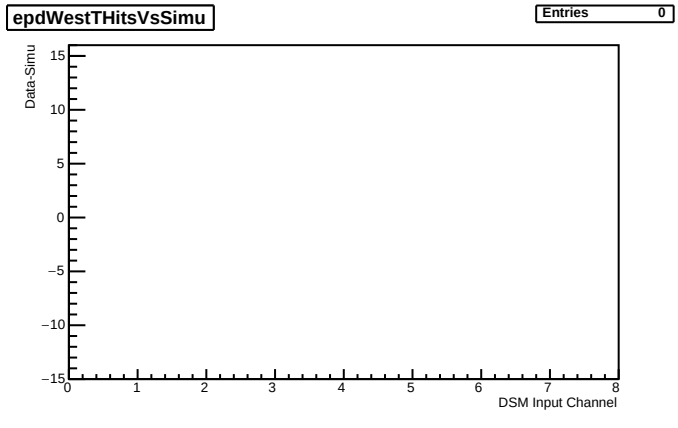
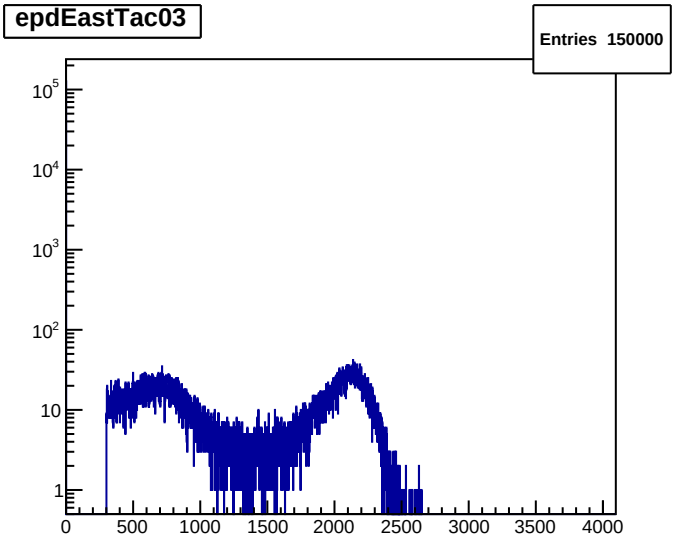
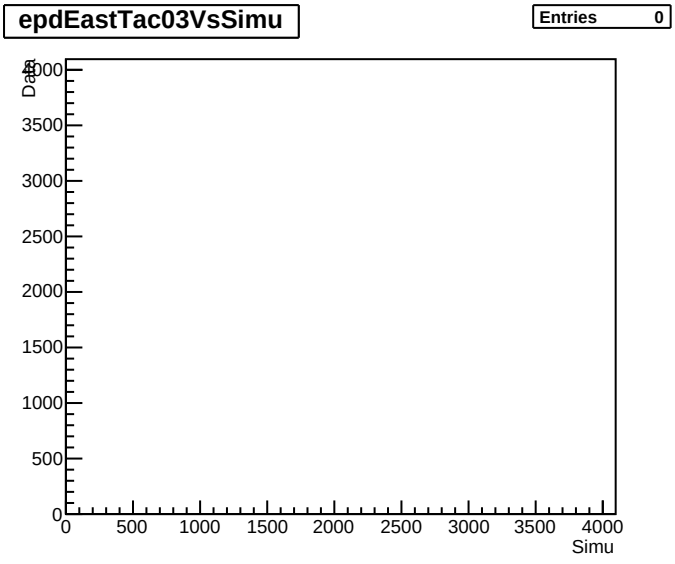
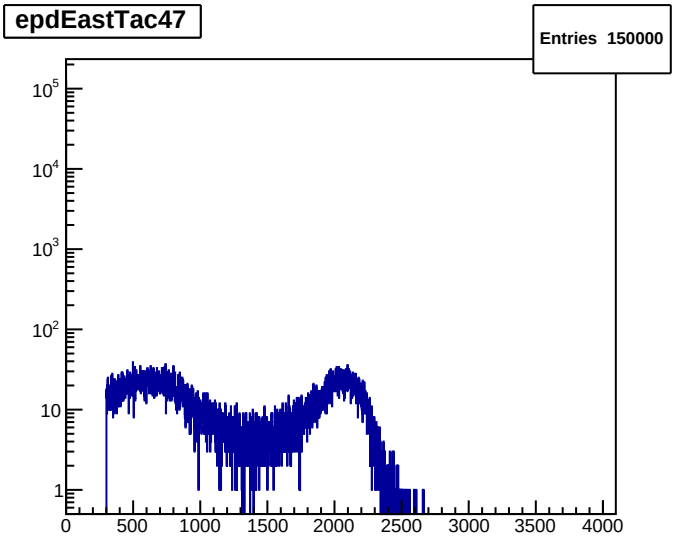
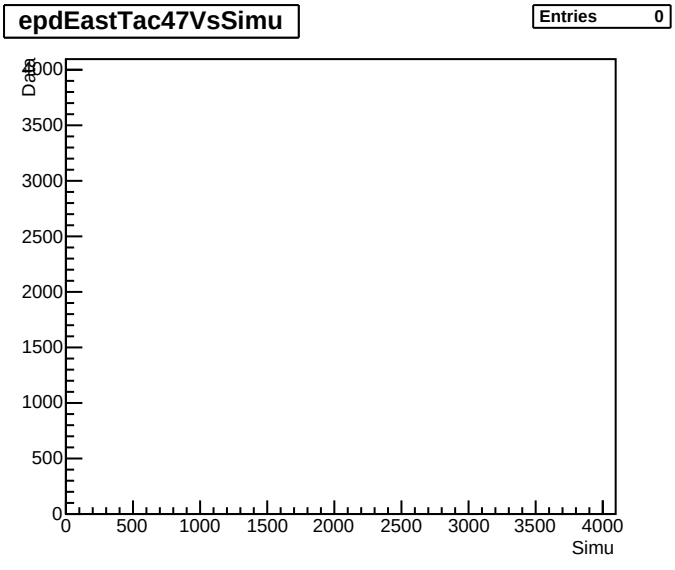
Entries 1200000
Truncated NHits
DSMInput Channel

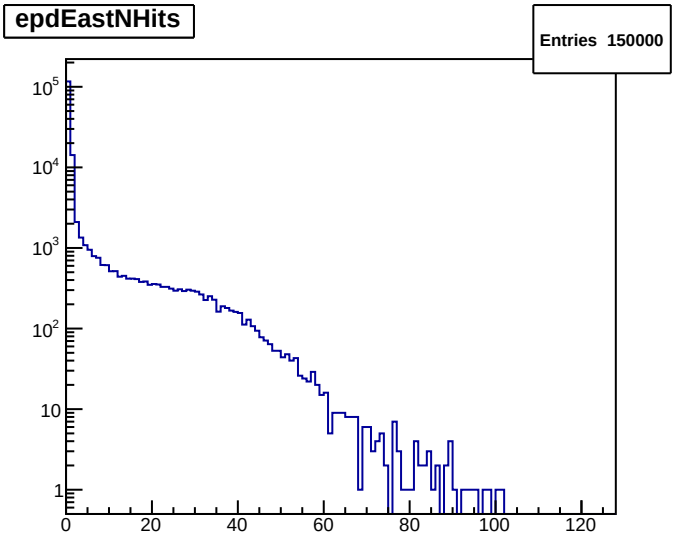

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

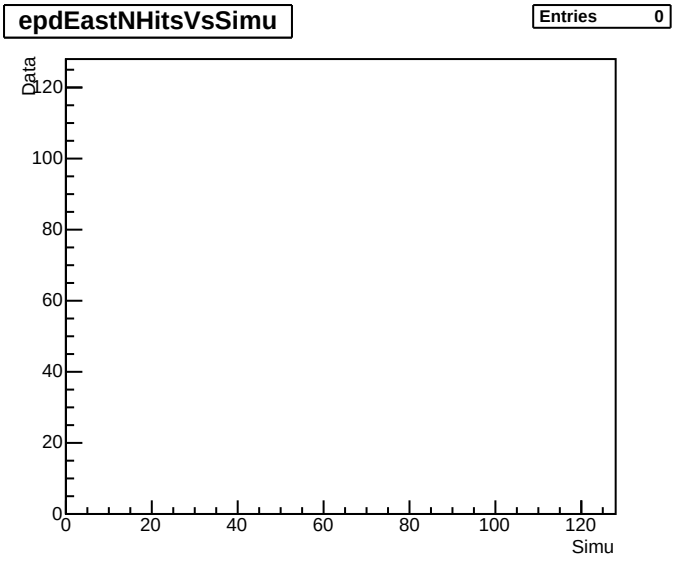

epdEastTac03
Entries 150000


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 150000


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 150000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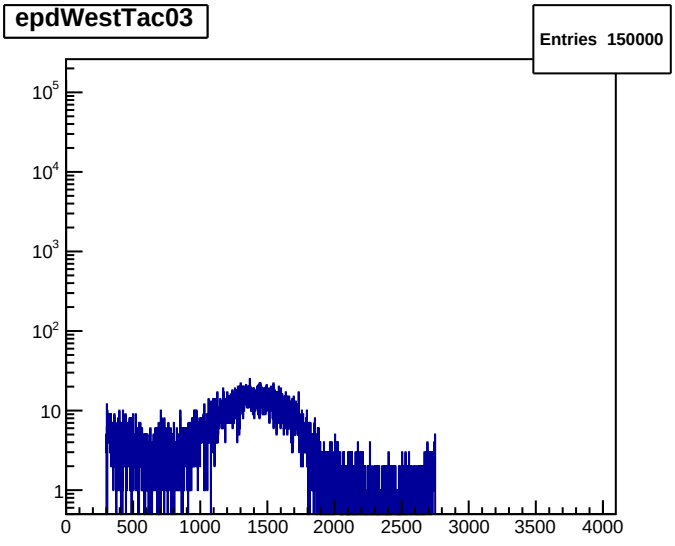
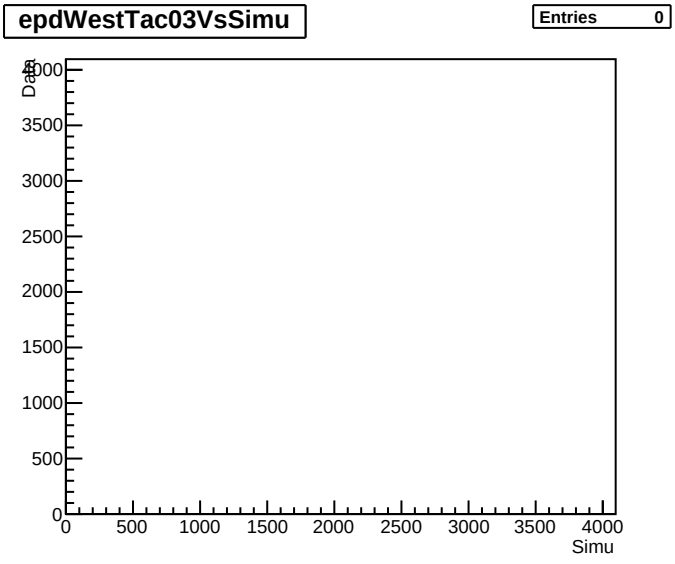
Entries 0
Data
Simu


epdWestTac03
Entries 150000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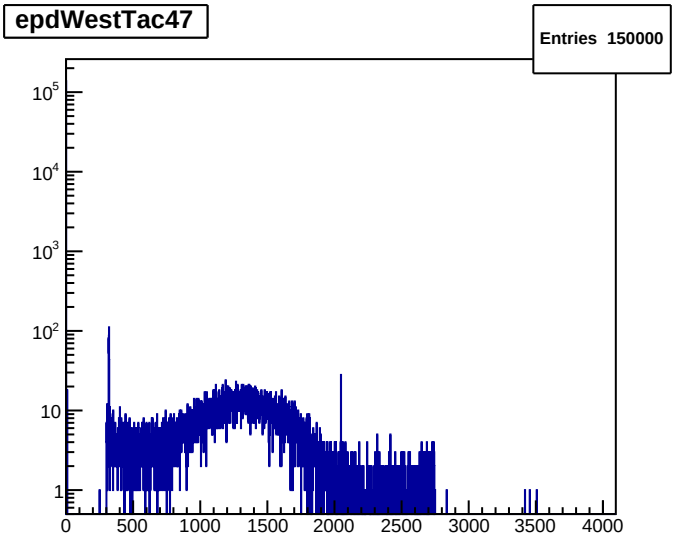
Entries 0
Data
Simu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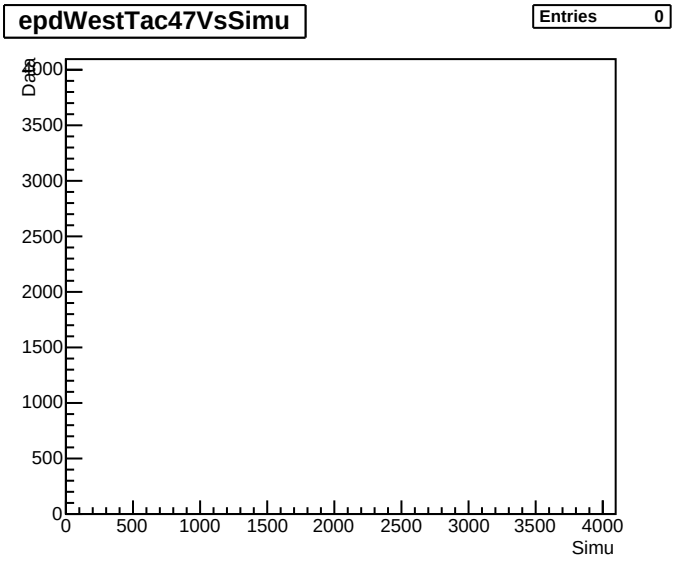
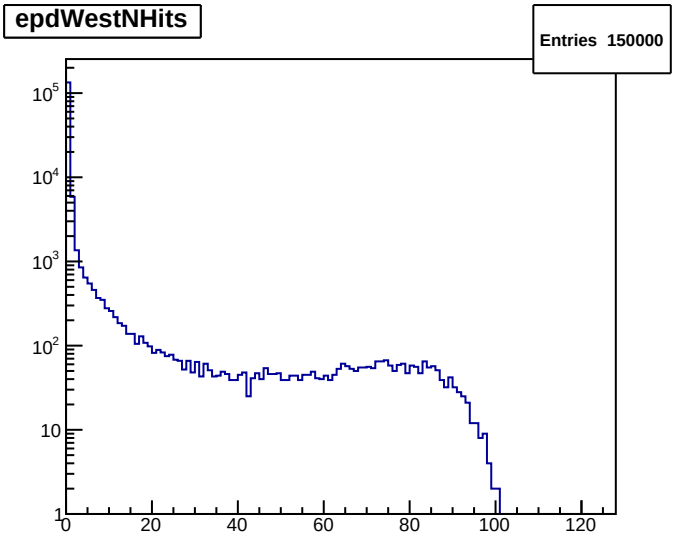
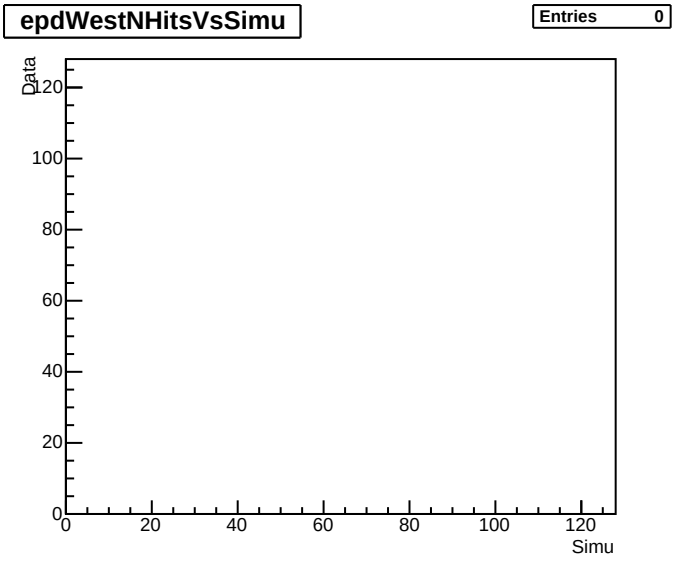
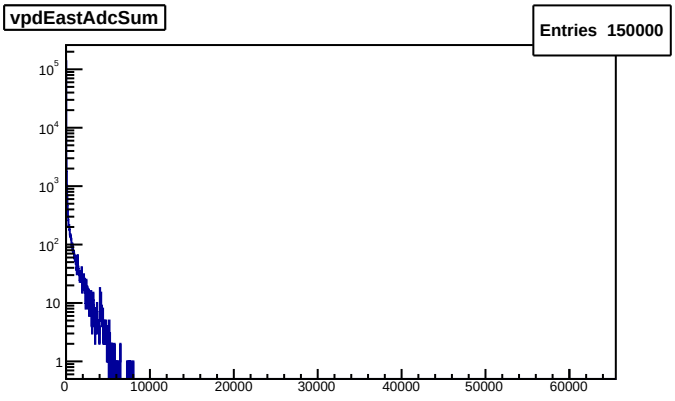
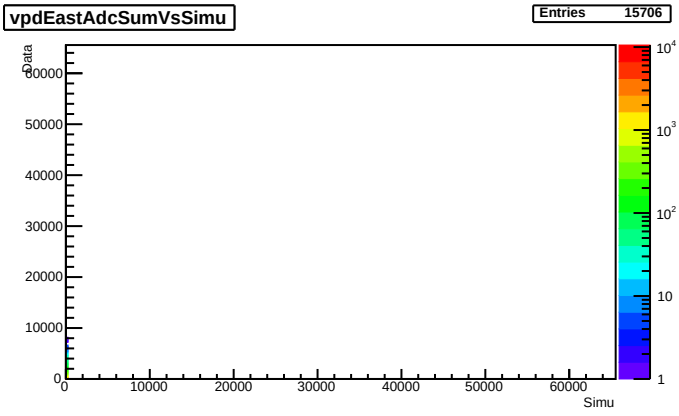
Entries 150000

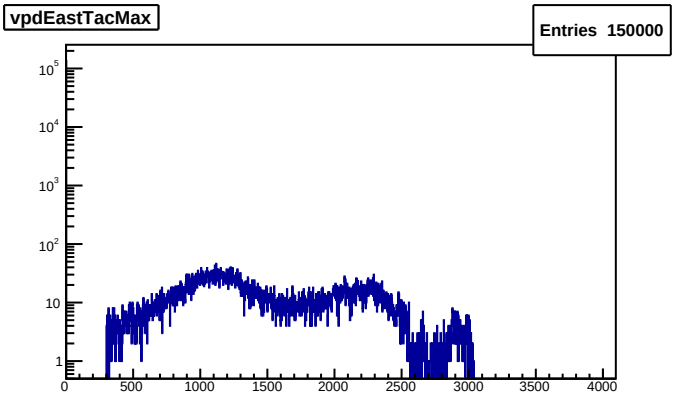

epdWestTac47VsSimu
Entries 0
Data
Simu

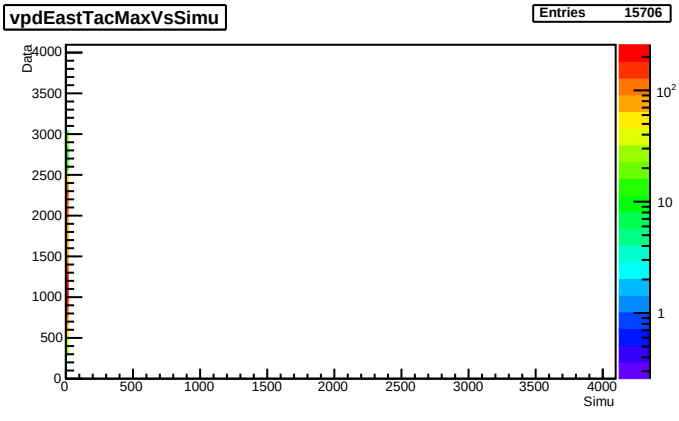

epdWestNHits
Entries 150000

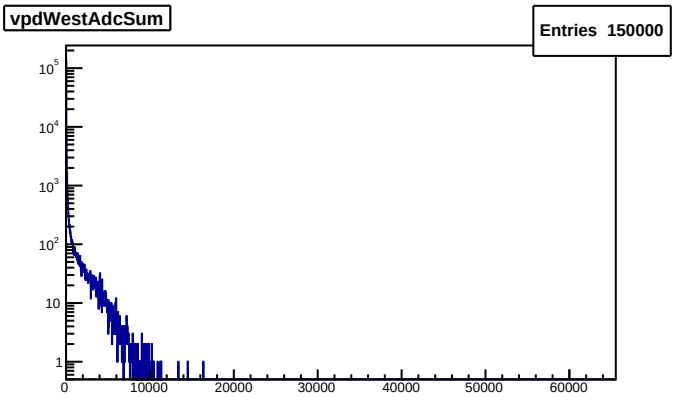

epdWestNHitsVsSimu
Entries 0
Data
Simu

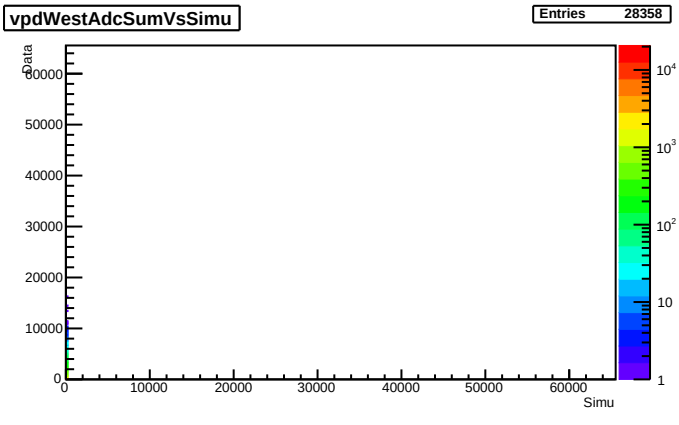

vpdEastAdcSum
Entries 150000

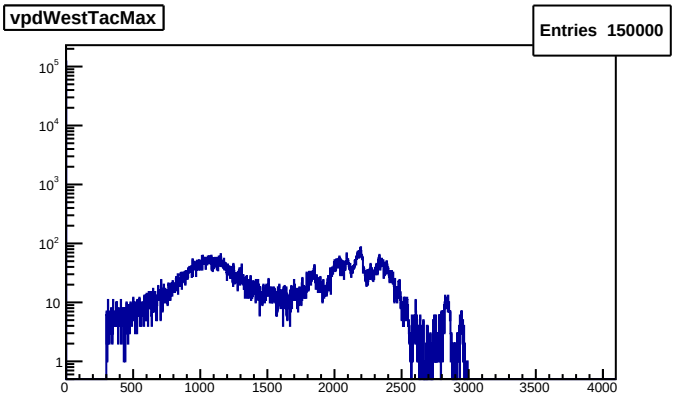

vpdEastAdcSumVsSimu
Entries 15706
Data
Simu

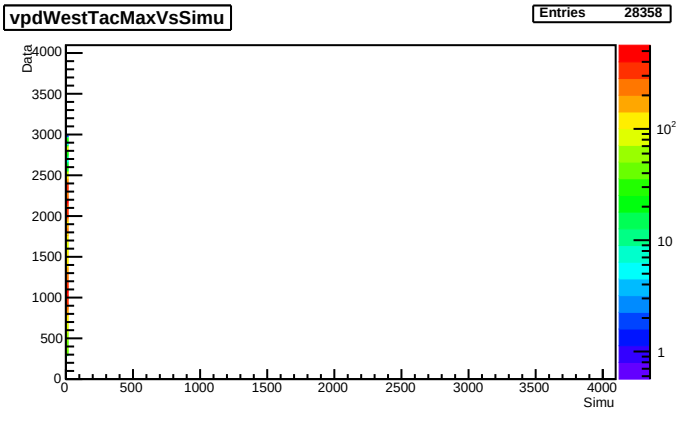

vpdEastTacMax
Entries 150000

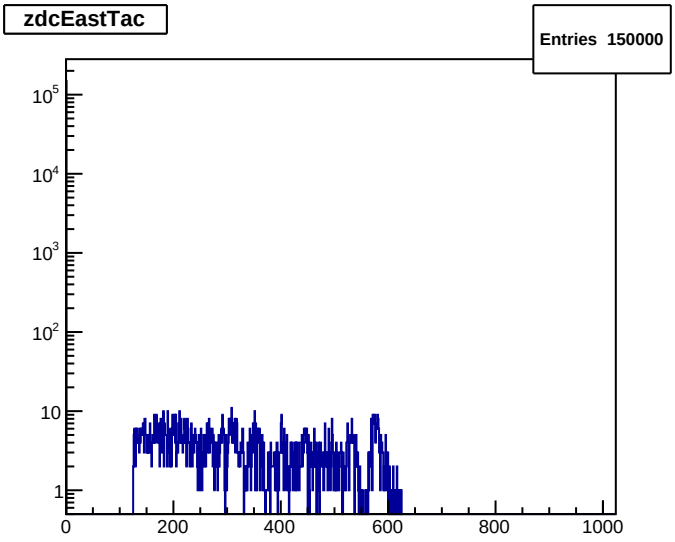

vpdEastTacMaxVsSimu
Entries 15706
Data
Simu

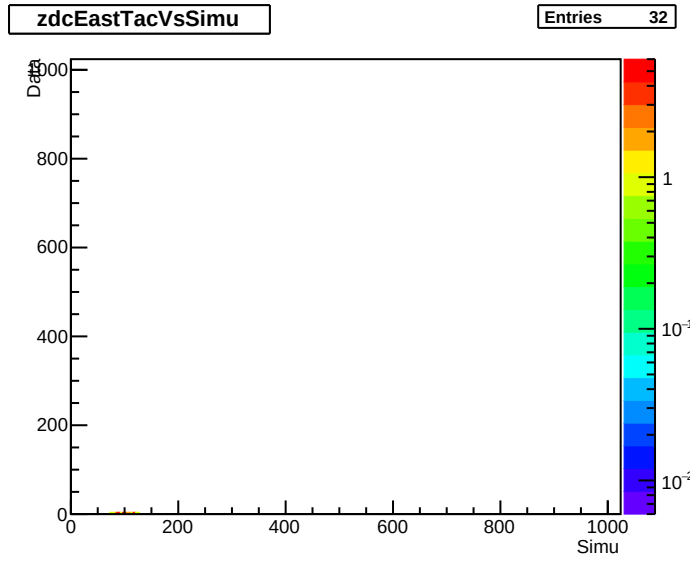

vpdWestAdcSum
Entries 150000

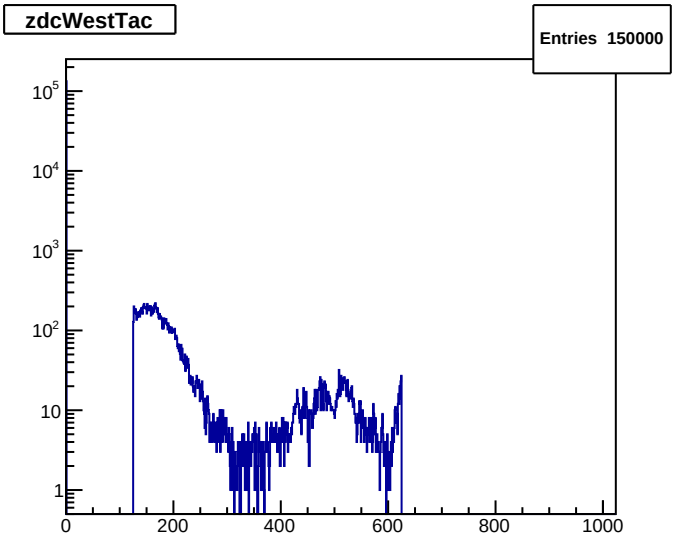

vpdWestAdcSumVsSimu
Entries 28358
Data
Simu

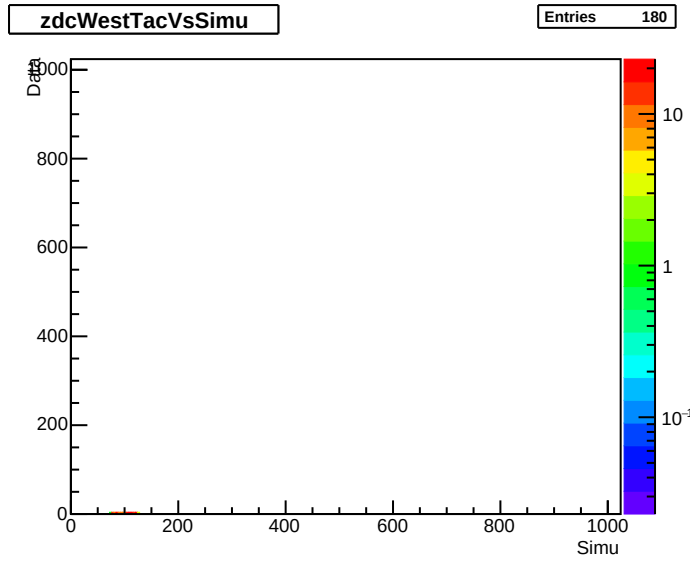

vpdWestTacMax
Entries 150000

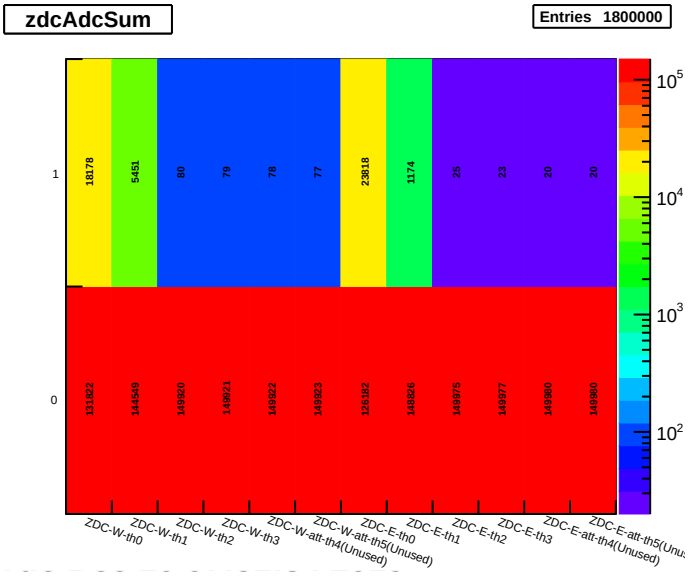

vpdWestTacMaxVsSimu
Entries 28358
Data
Simu

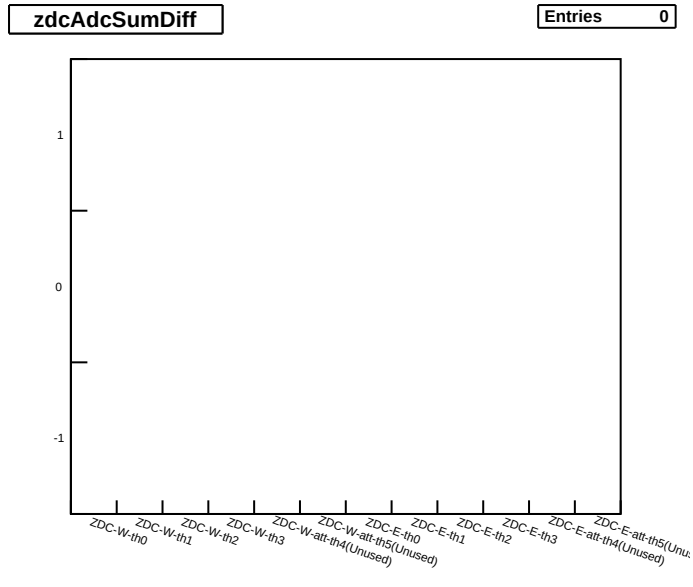

zdcEastTac
Entries 150000

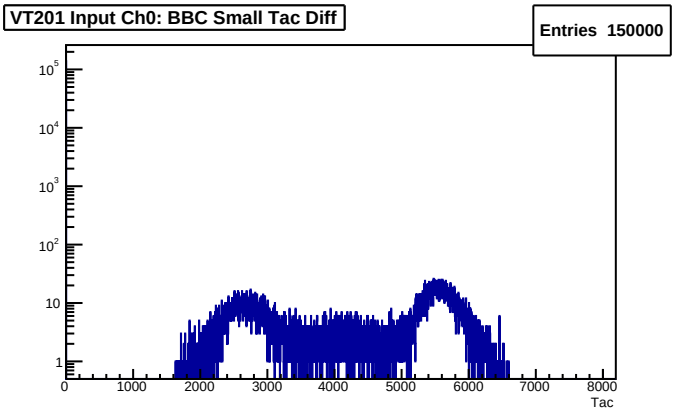

zdcEastTacVsSimu
Entries 32
Data
Simu

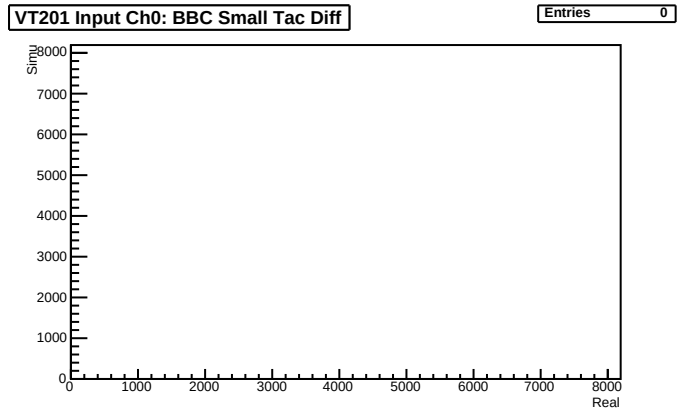

zdcWestTac
Entries 150000

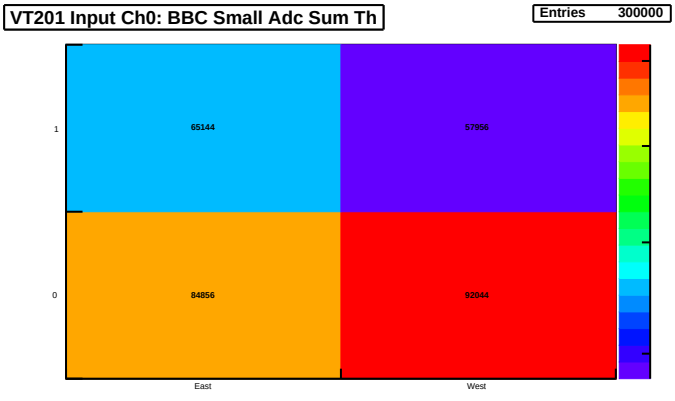

zdcWestTacVsSimu
Entries 180
Data
Simu

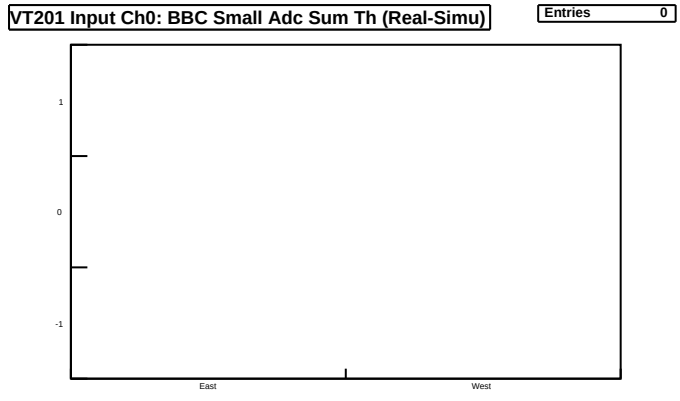

zdcAdcSum
Entries 1800000
18178
5451
80
79
78
77
23818
1174
25
23
20
20
131822
144549
149920
149921
149922
149923
126182
148826
149975
149977
149980
149980
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

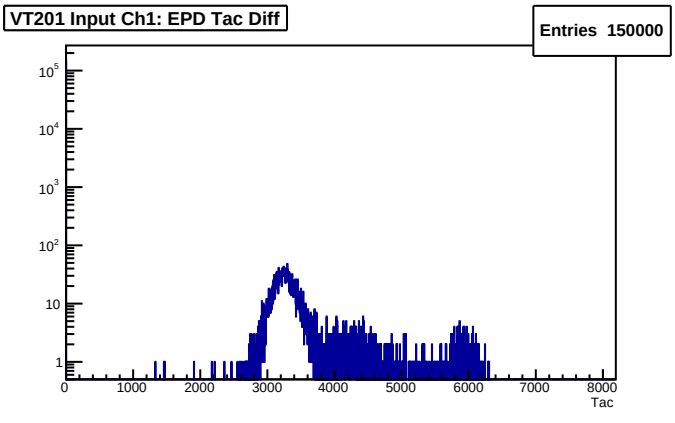

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

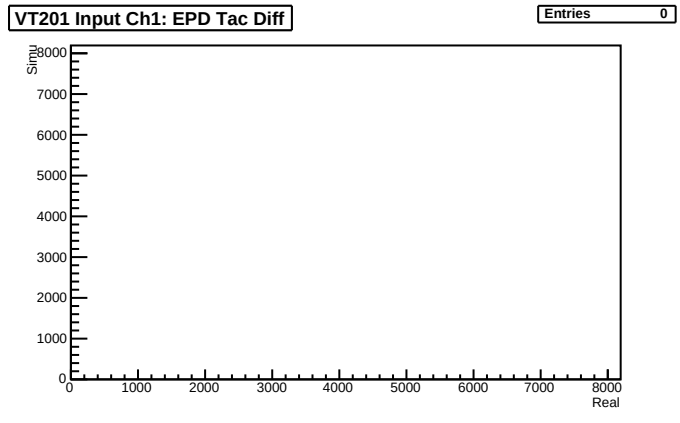

VT201 Input Ch0: BBC Small Tac Diff
Entries 150000
Tac

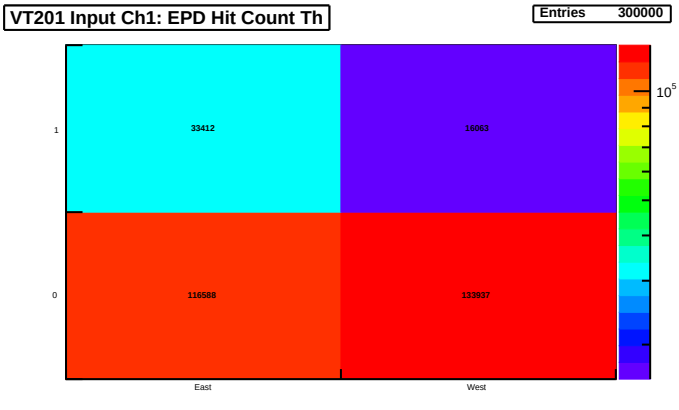

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

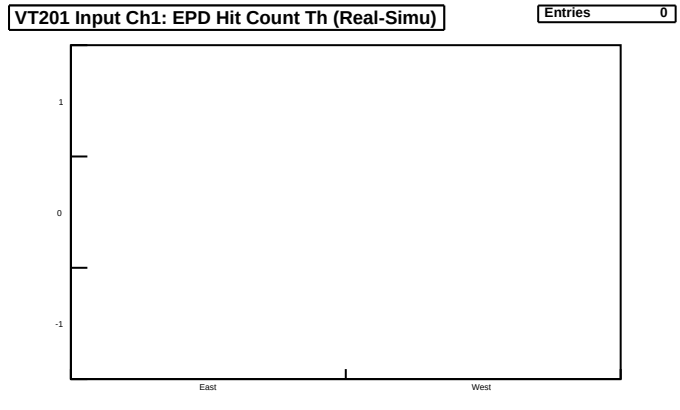

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 300000
65144
57956
84856
92044
East
West

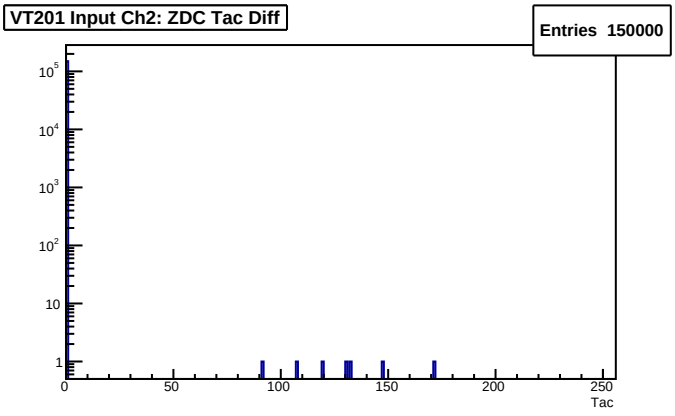

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

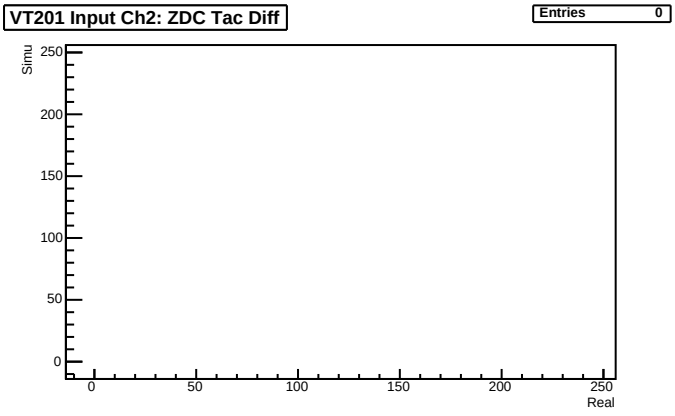

VT201 Input Ch1: EPD Tac Diff
Entries 150000
Tac

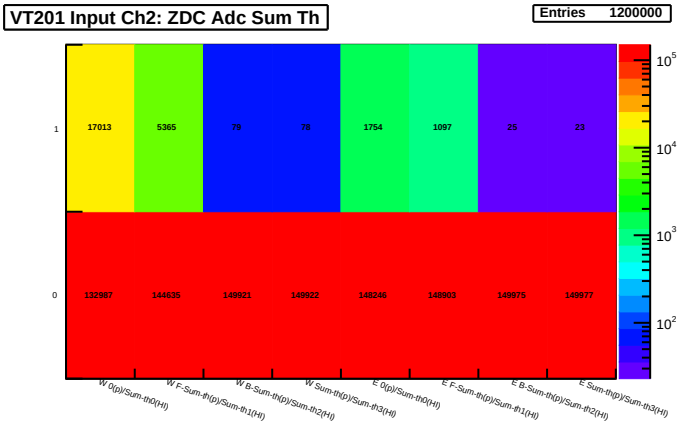

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

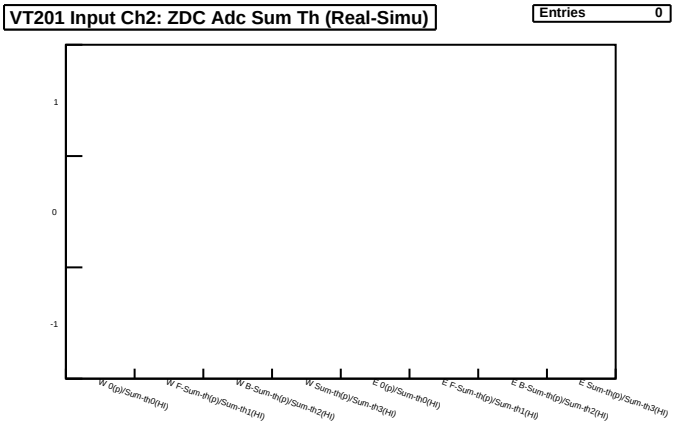

VT201 Input Ch1: EPD Hit Count Th
Entries 300000
33412
16063
116588
133937
East
West

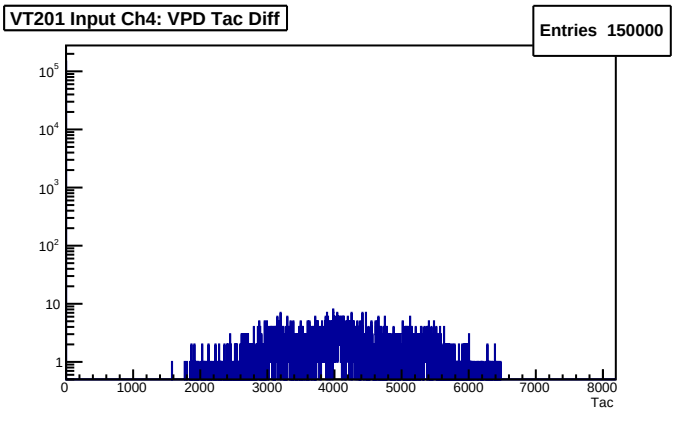

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

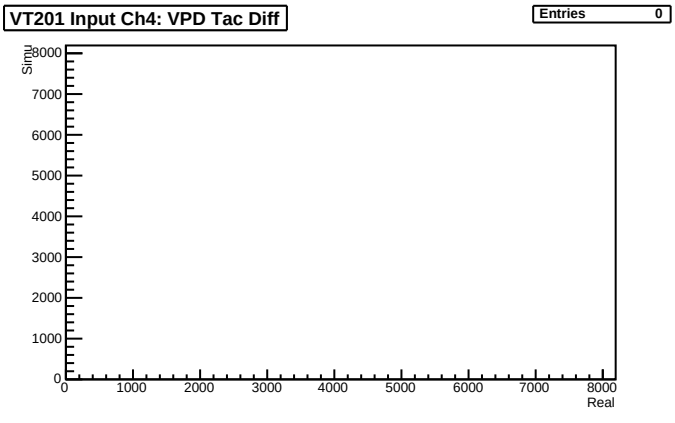

VT201 Input Ch2: ZDC Tac Diff
Entries 150000
Tac

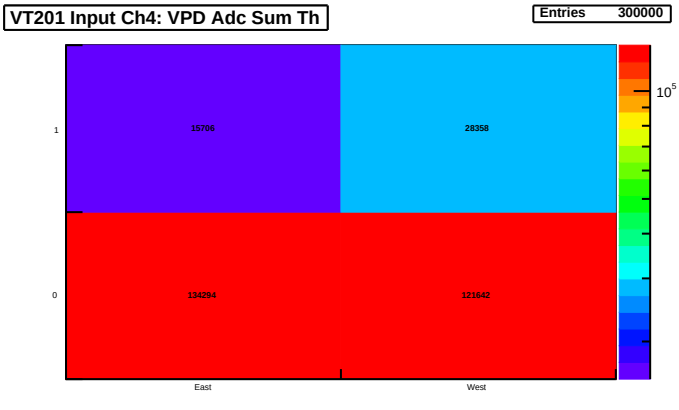

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

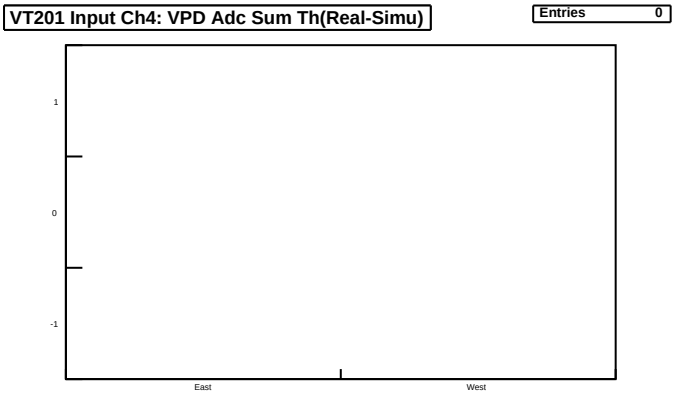

VT201 Input Ch2: ZDC Adc Sum Th
Entries 1200000
17013
5365
79
78
1754
1097
25
23
132987
144635
149921
149922
148246
148903
149975
149977
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

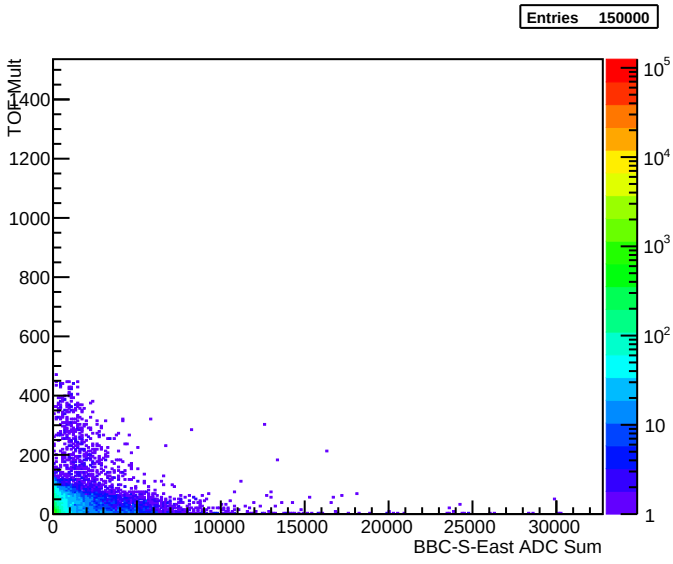

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

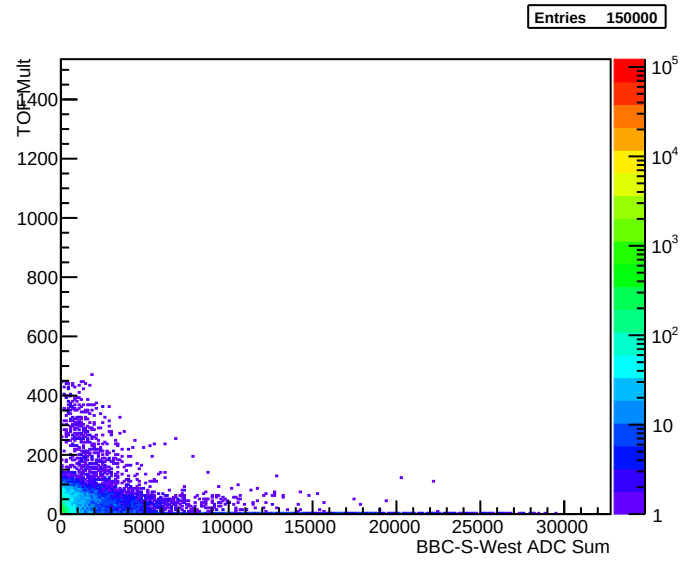

VT201 Input Ch4: VPD Tac Diff
Entries 150000
Tac

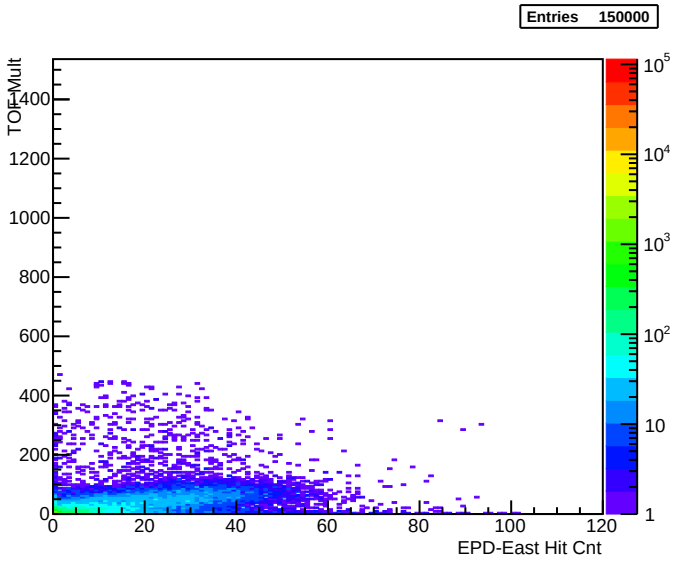

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

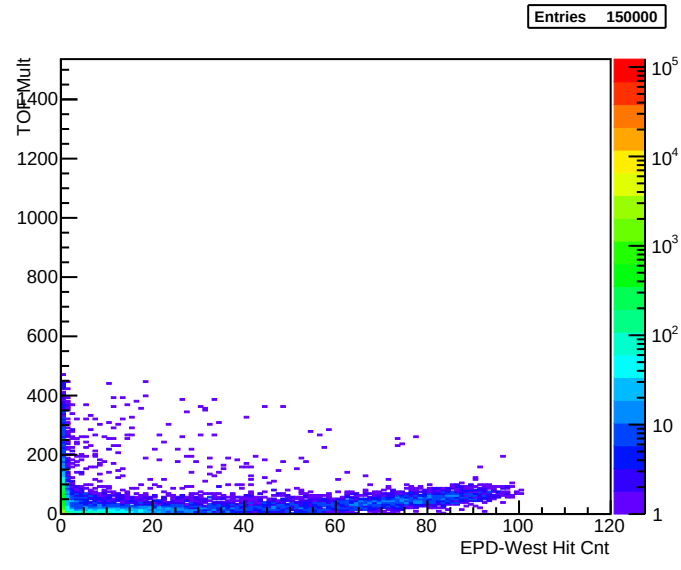

VT201 Input Ch4: VPD Adc Sum Th
Entries 300000
15706
28358
134294
121642
East
West

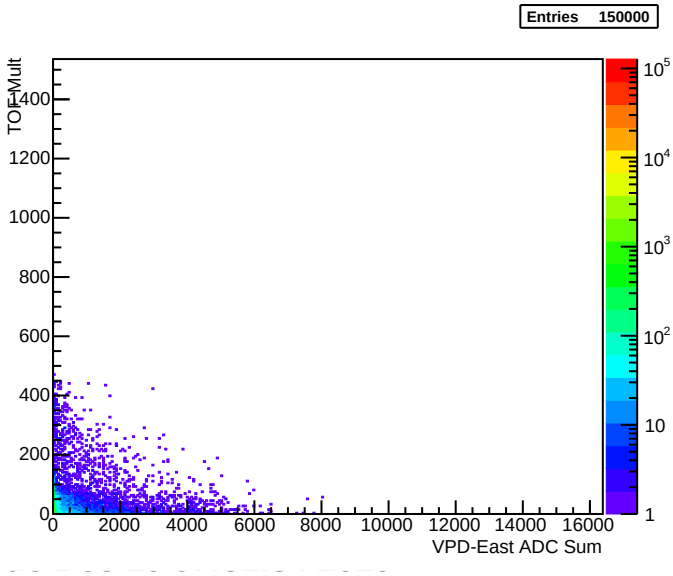

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

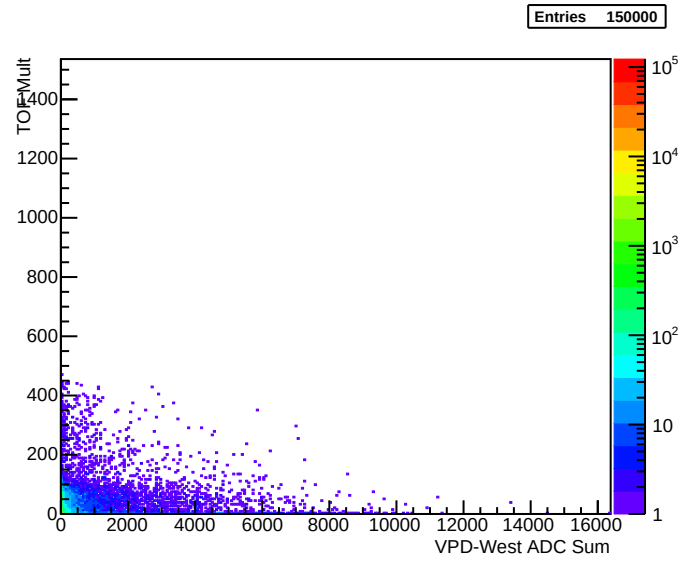

Entries 150000
TOF-Mult
BBC-S-East ADC Sum

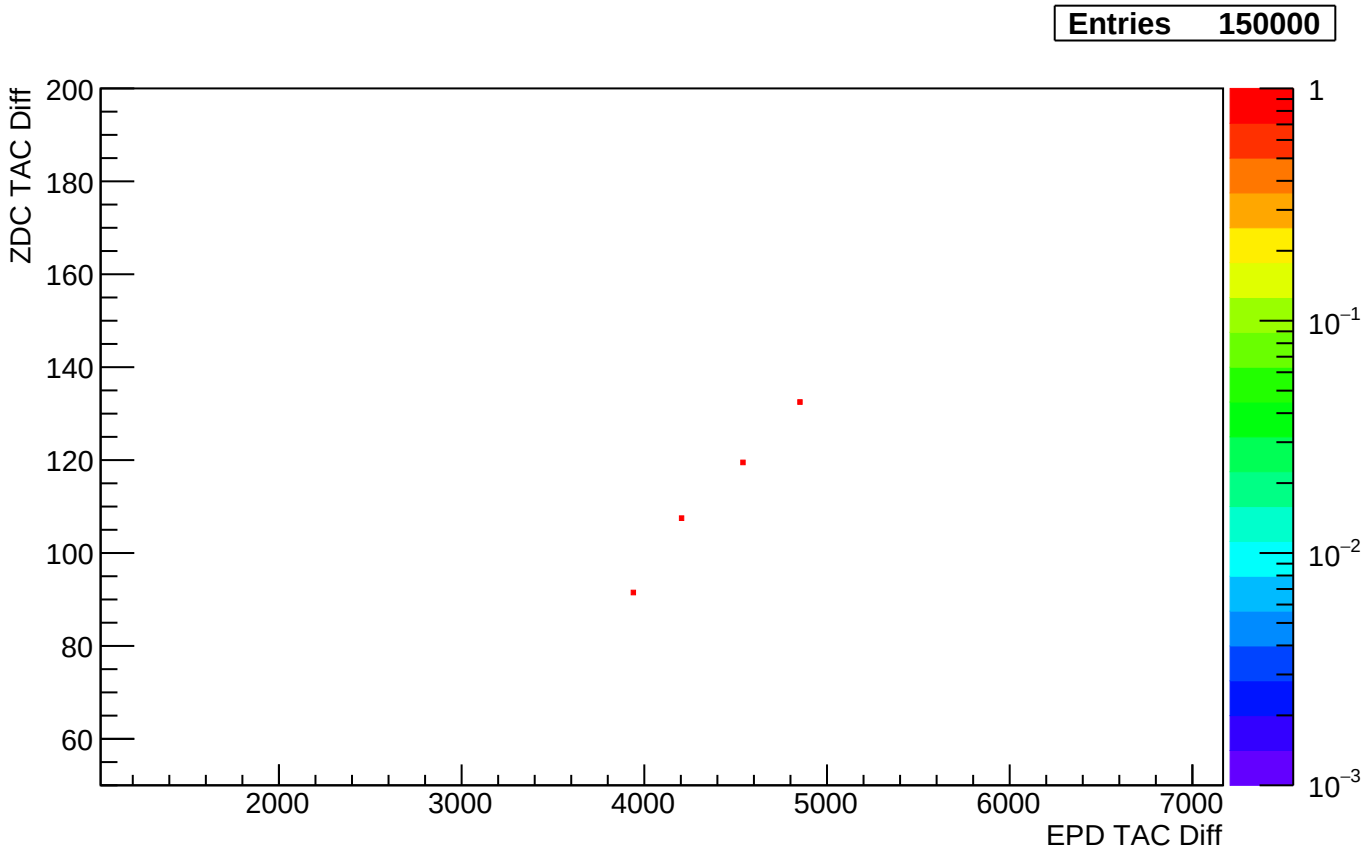

Entries 150000
TOF-Mult
BBC-S-West ADC Sum

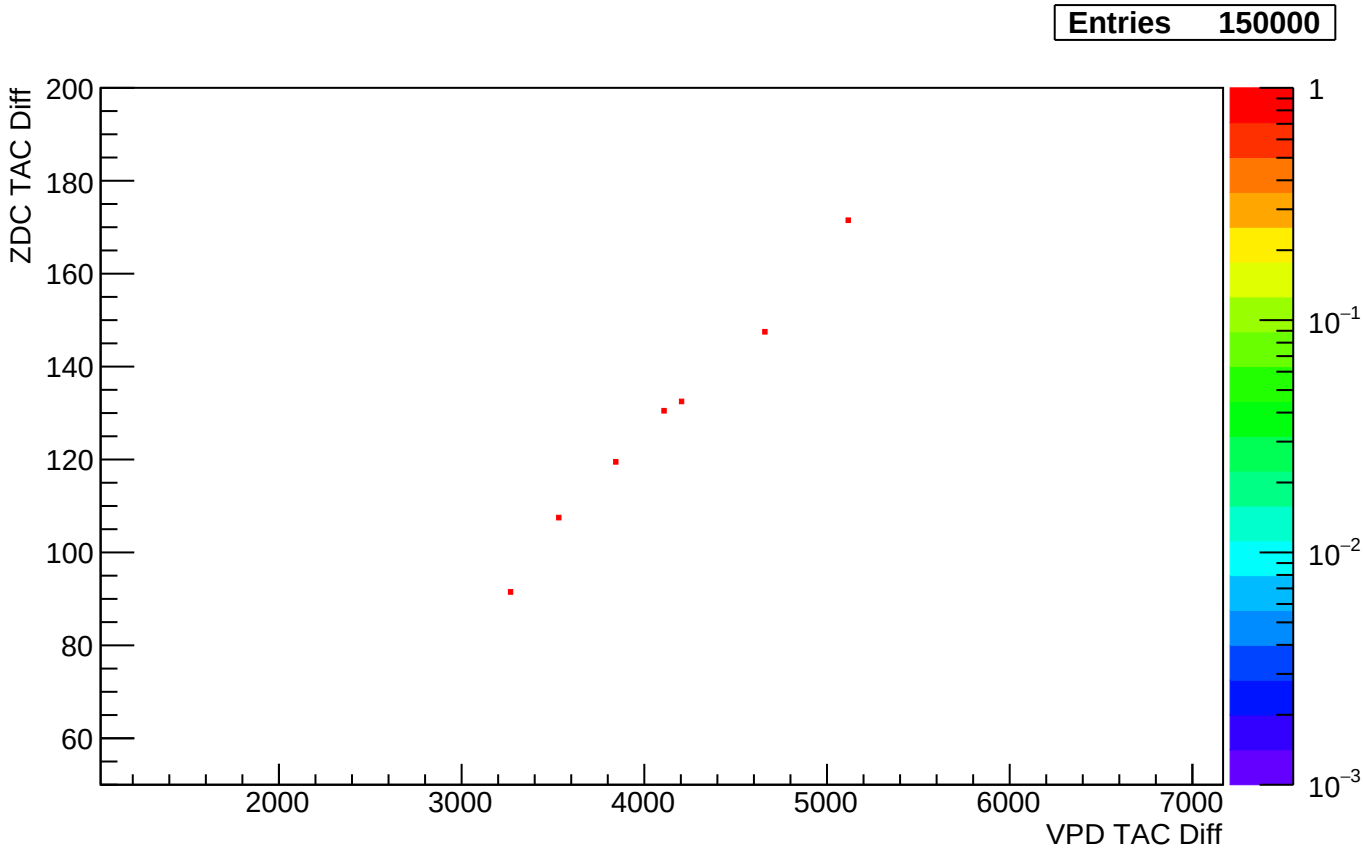

Entries 150000
TOF-Mult
EPD-East Hit Cnt

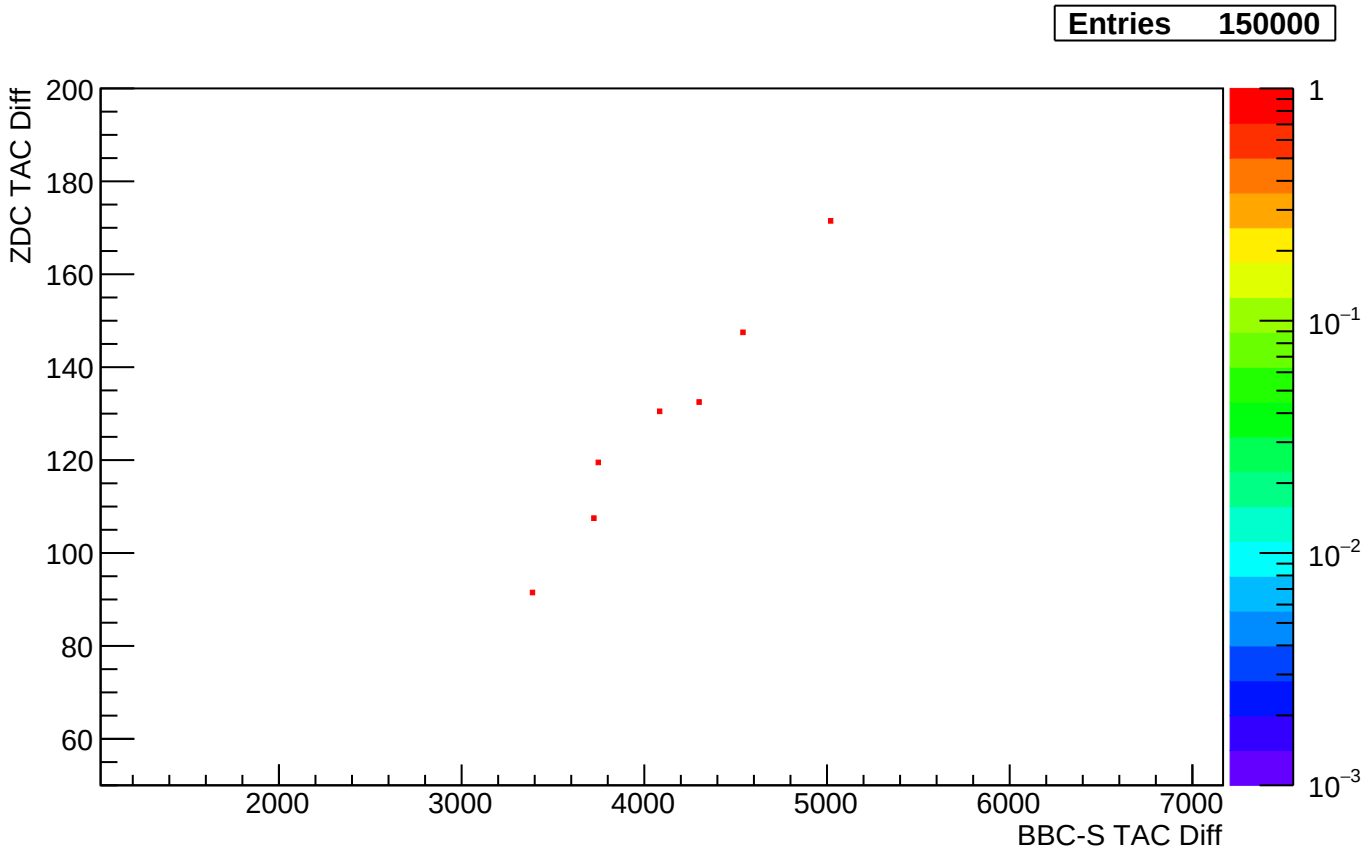

Entries 150000
TOF-Mult
EPD-West Hit Cnt

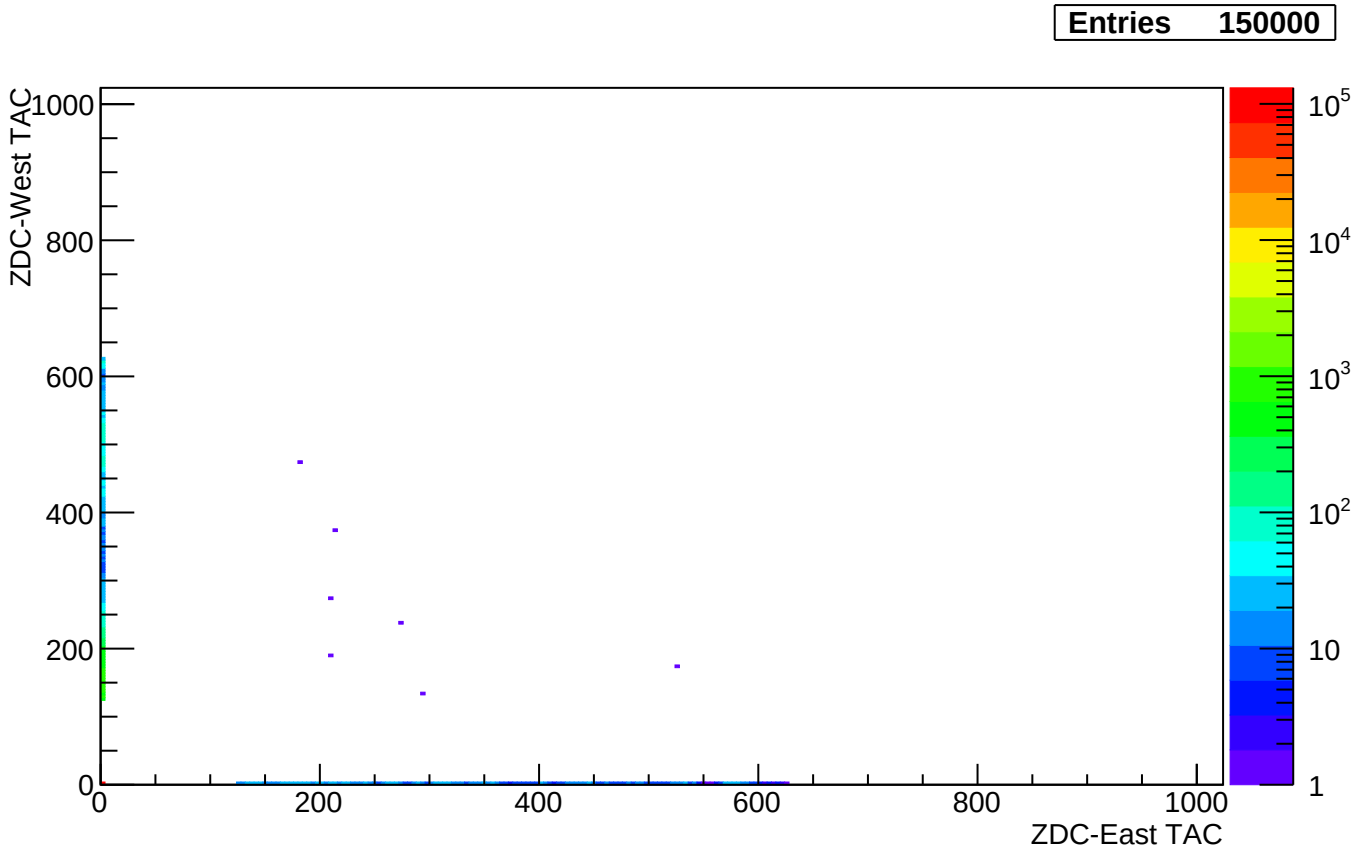

Entries 150000
TOF-Mult
VPD-East ADC Sum

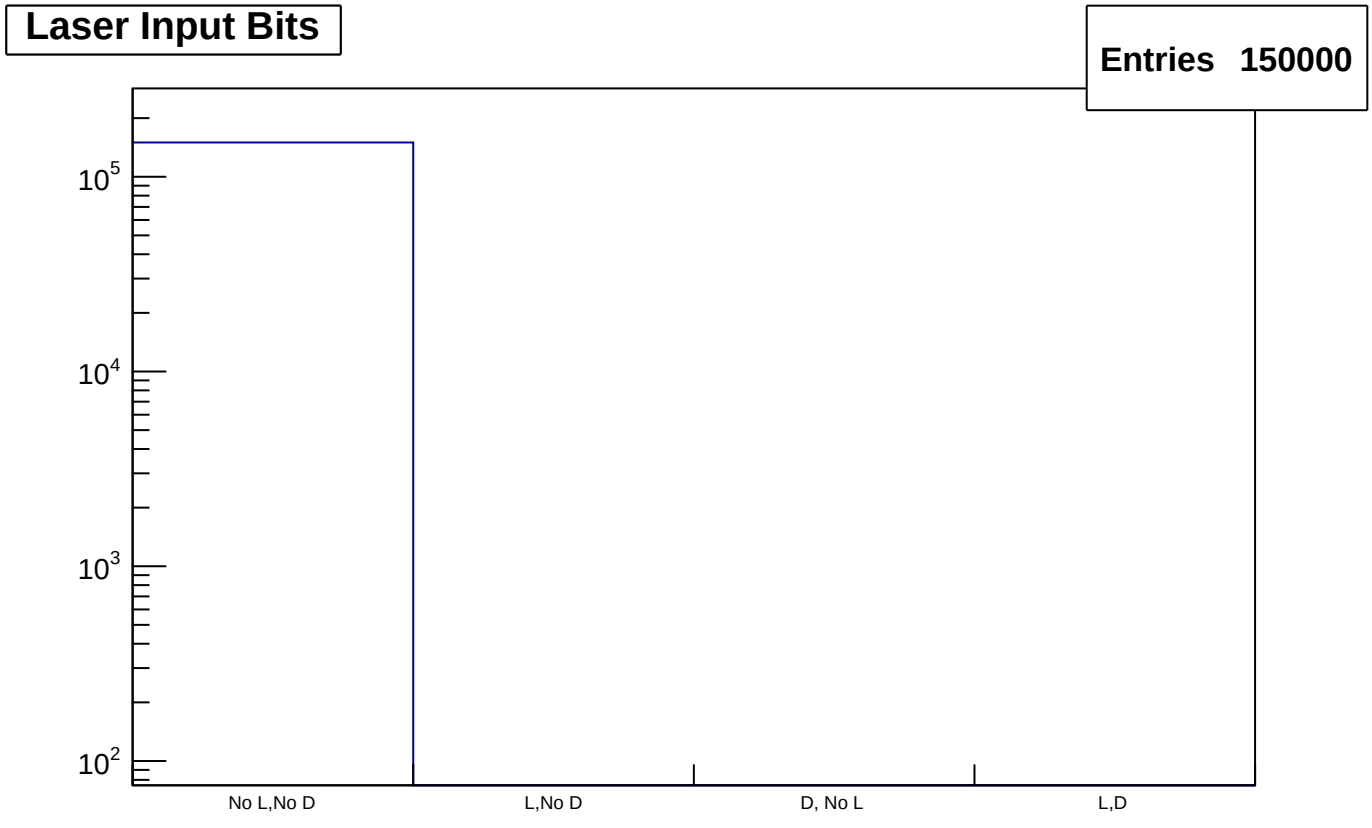

Entries 150000
TOF-Mult
VPD-West ADC Sum

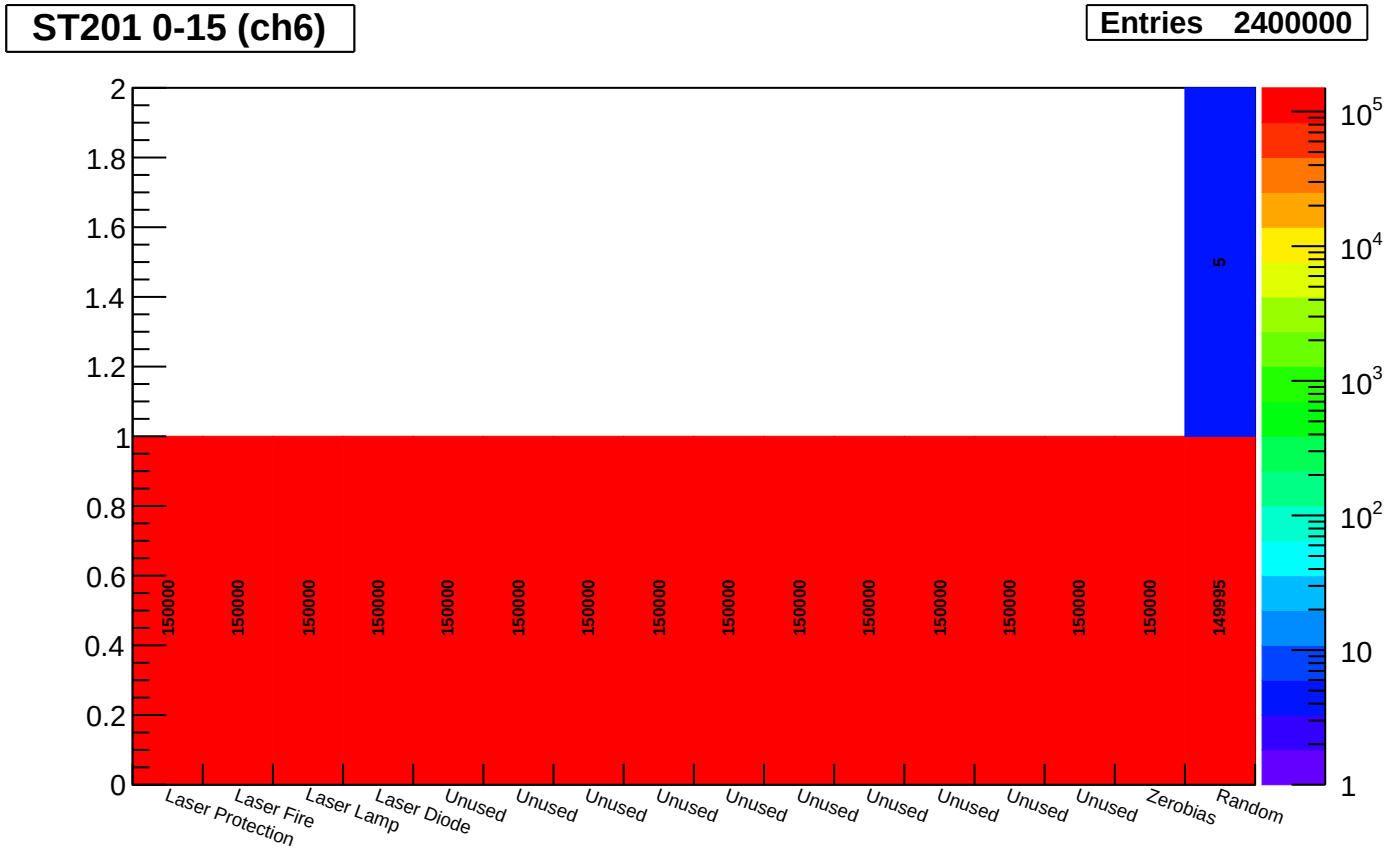

Entries 150000
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

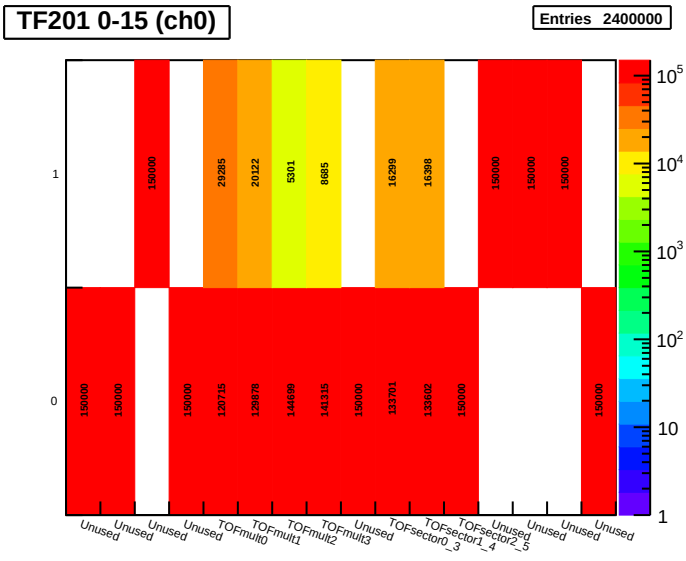

Entries 150000
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

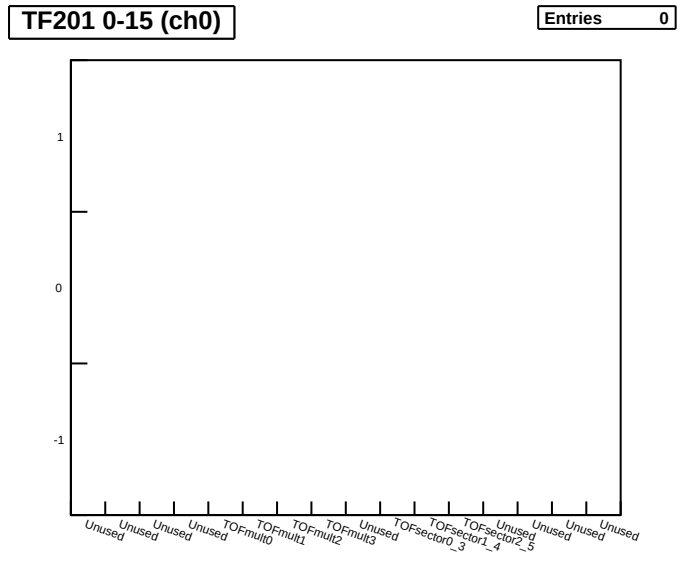

Entries 150000
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

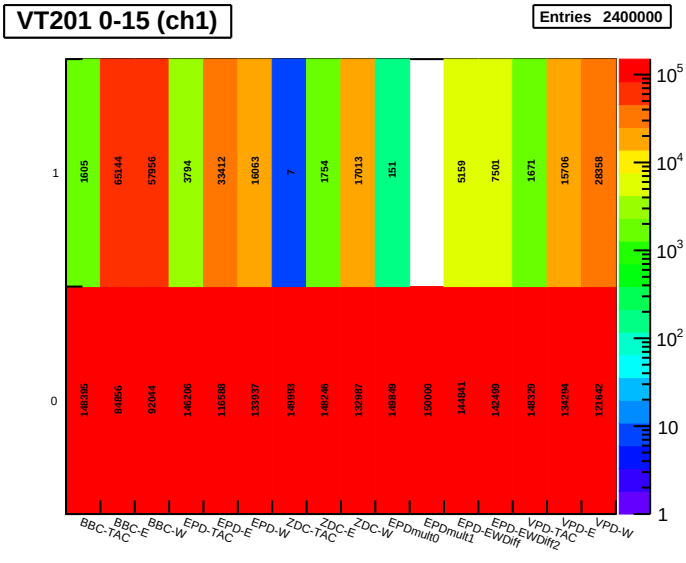

Entries 150000
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

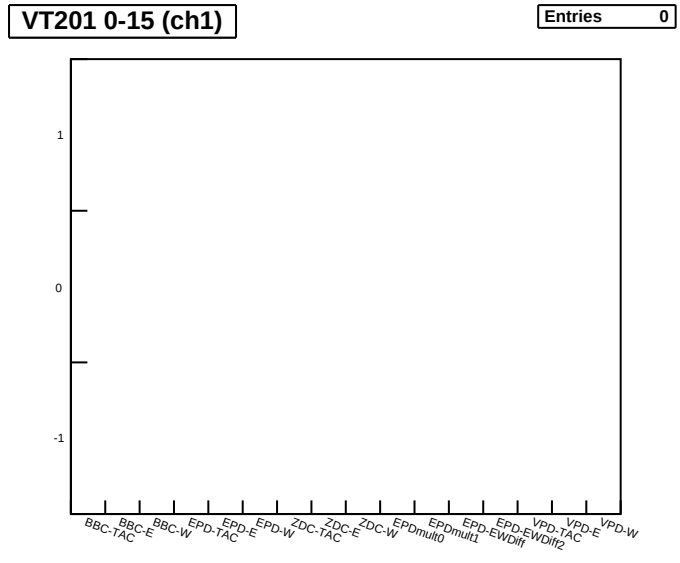

Laser Input Bits
Entries 150000
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

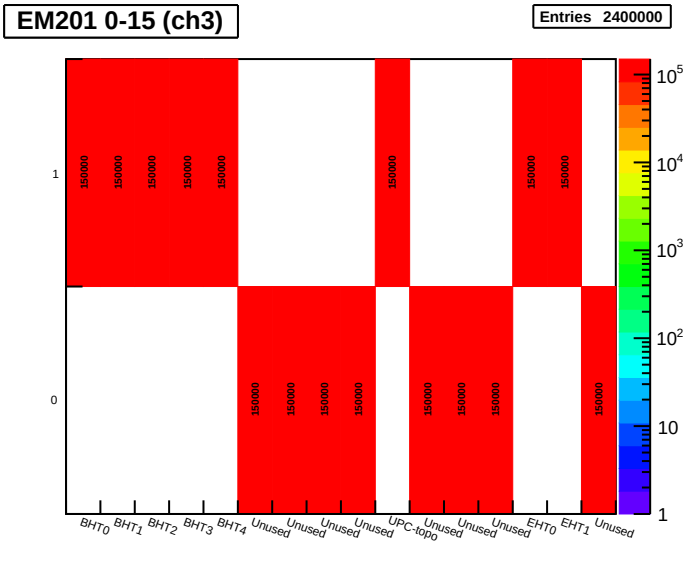

ST201 0-15 (ch6)
Entries 2400000
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
149995
5
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

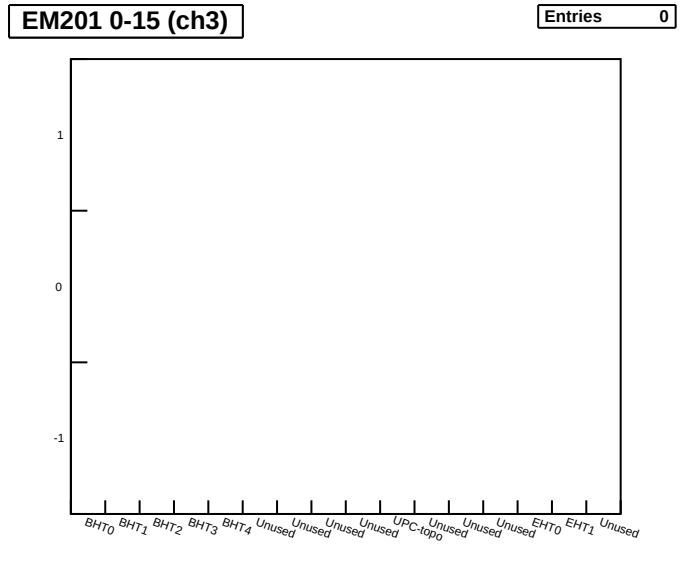

TF201 0-15 (ch0)
Entries 2400000
1
0
150000 29285 20122 5301 8685 16299 16398 150000 150000 150000
150000 150000 150000 120715 129878 144639 141315 150000 133701 133602 150000 150000
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 10^4 10^3 10^2 10 1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused


VT201 0-15 (ch1)
Entries 2400000
1
0
1605 65144 57956 3794 33412 16063 7 1754 17013 151 5159 7501 1671 15706 28358
148395 84856 92044 146206 116588 133937 148993 148246 132987 149849 150000 144941 142499 148329 134294 121642
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^5 10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 2400000
1
0
150000 150000 150000 150000 150000 150000 150000 150000
150000 150000 150000 150000 150000 150000 150000 150000
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 10^4 10^3 10^2 10 1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused