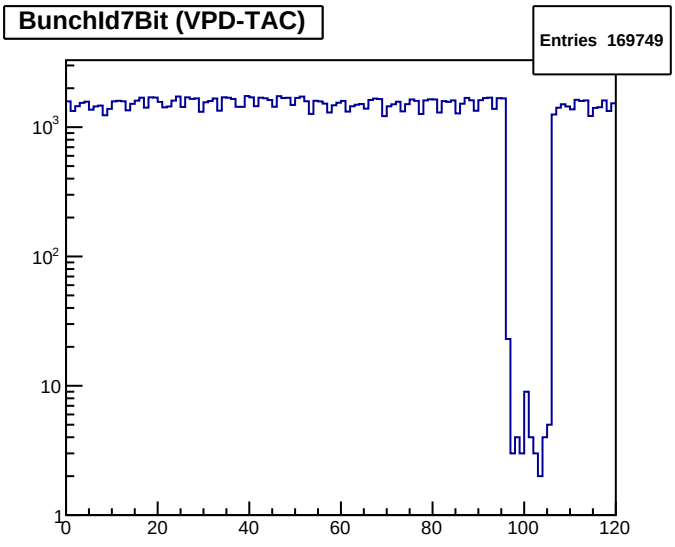
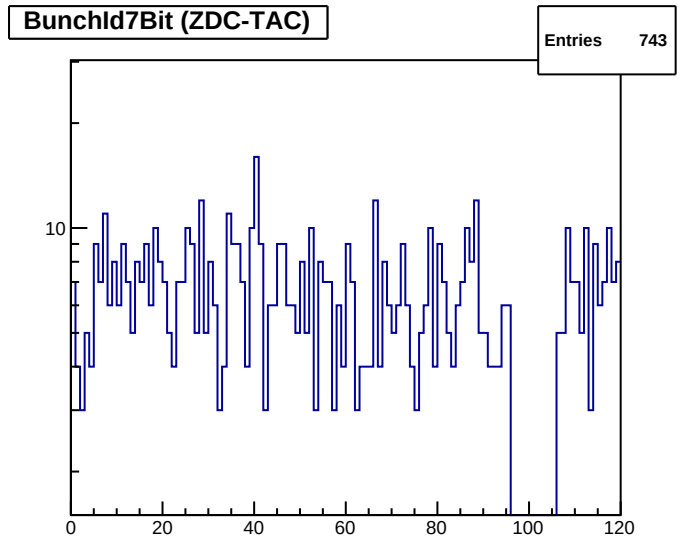
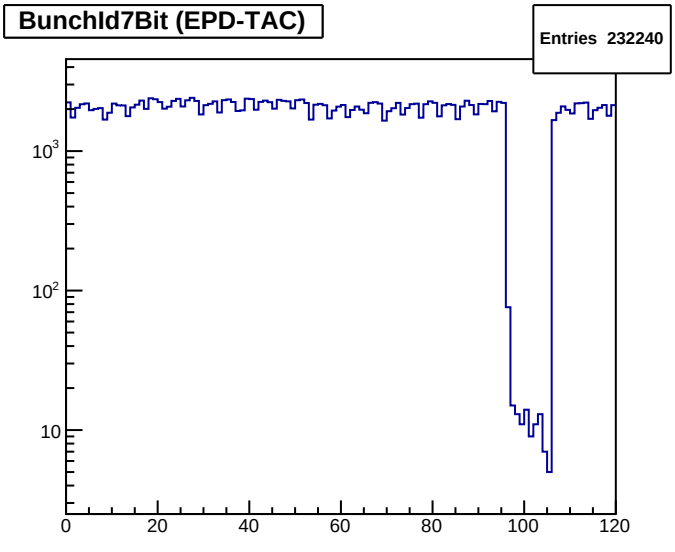
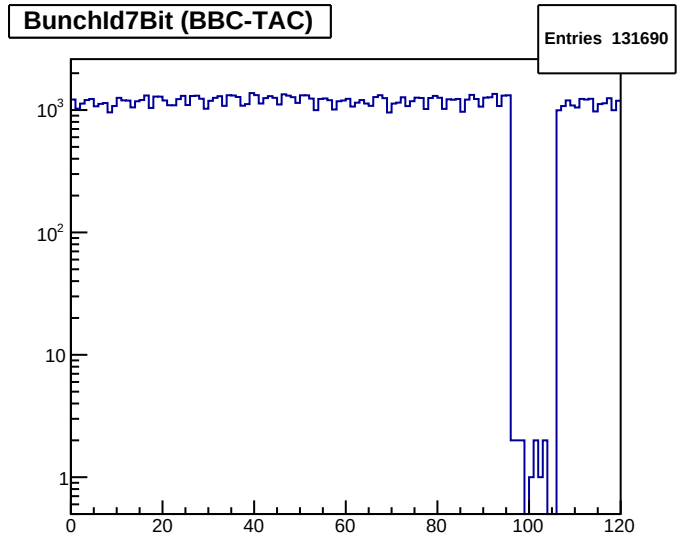
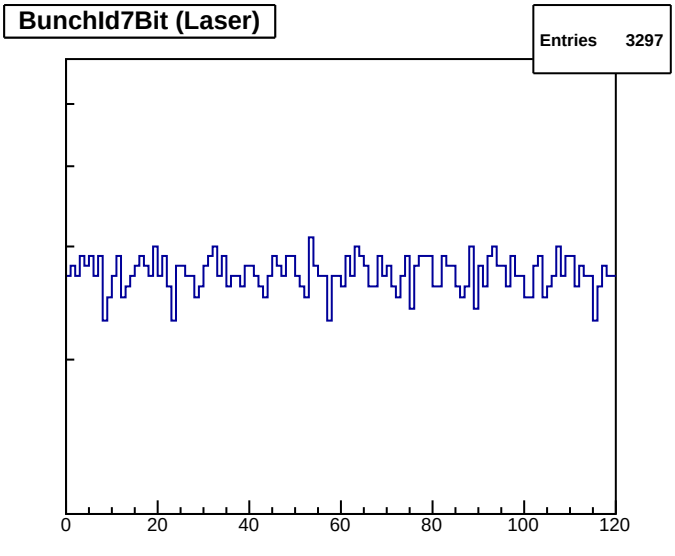
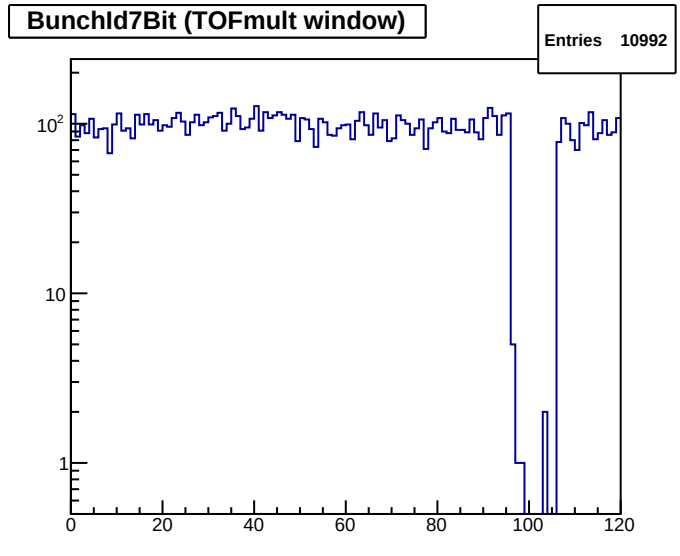

BunchId7Bit (VPD-TAC)
Entries 169749
10^3
10^2
10
1
0
20
40
60
80
100
120

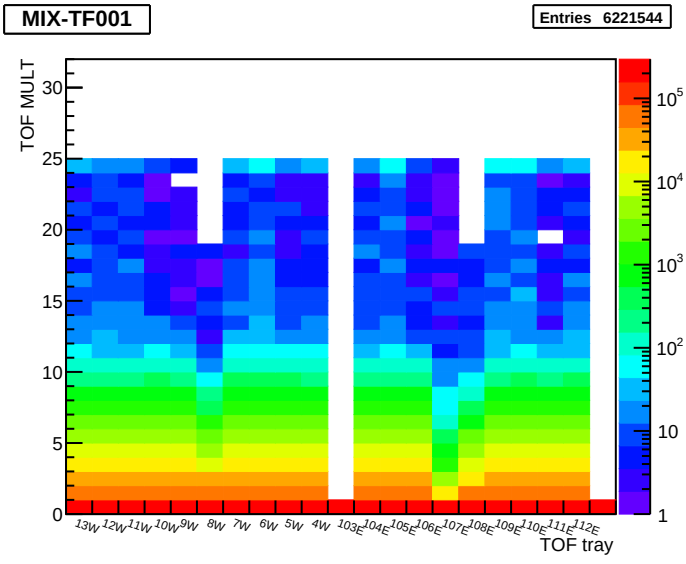

BunchId7Bit (ZDC-TAC)
Entries 743
10
0
20
40
60
80
100
120

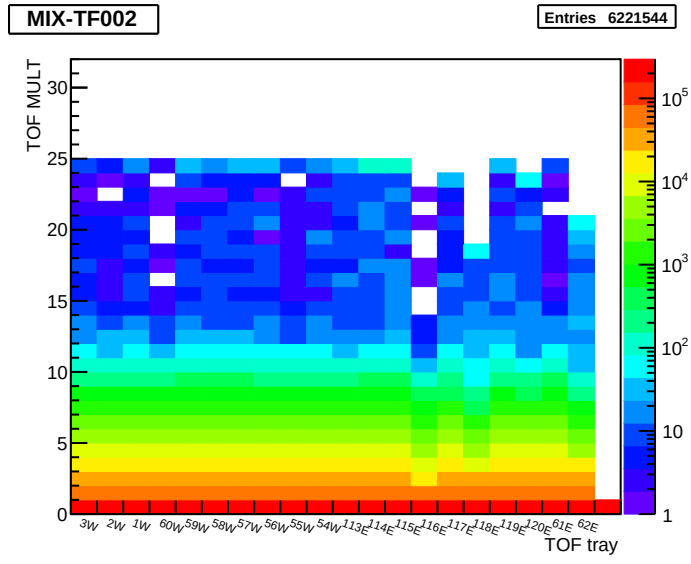

BunchId7Bit (EPD-TAC)
Entries 232240
10^3
10^2
10
0
20
40
60
80
100
120

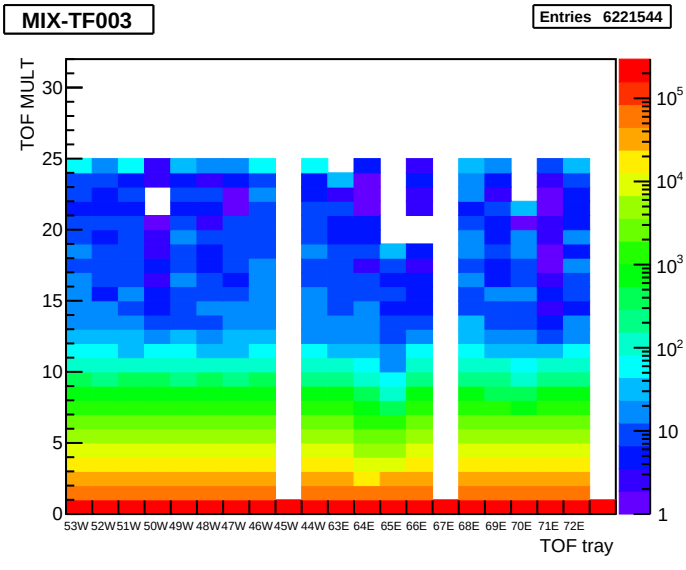

BunchId7Bit (BBC-TAC)
Entries 131690
10^3
10^2
10
1
0
20
40
60
80
100
120

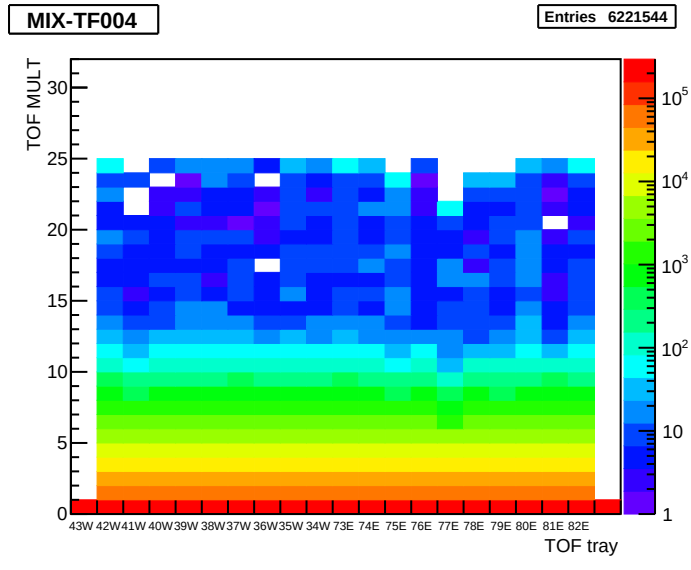

BunchId7Bit (Laser)
Entries 3297
0
20
40
60
80
100
120

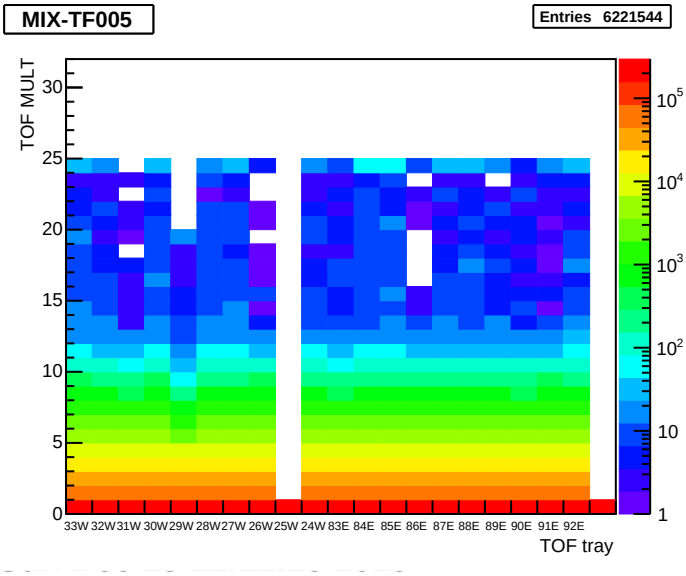

BunchId7Bit (TOFmult window)
Entries 10992
10^2
10
1
0
20
40
60
80
100
120

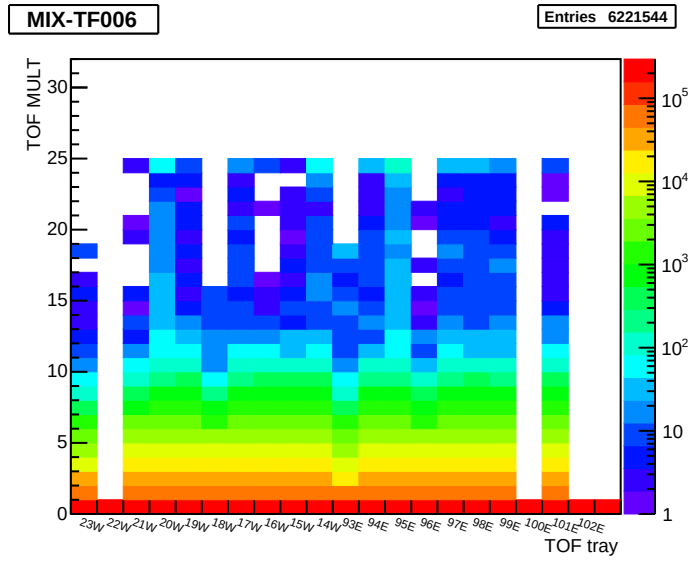

MIX-TF001
Entries 6221544
TOF MULT
TOF tray

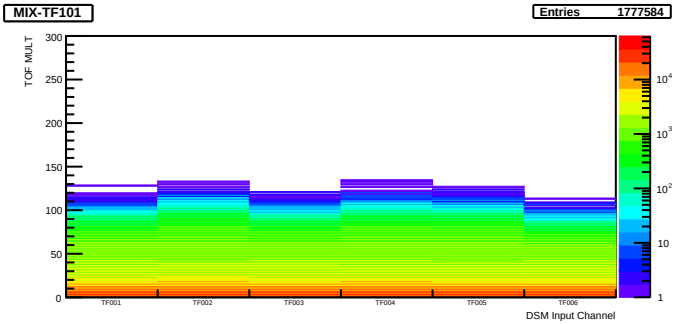

MIX-TF002
Entries 6221544
TOF MULT
TOF tray

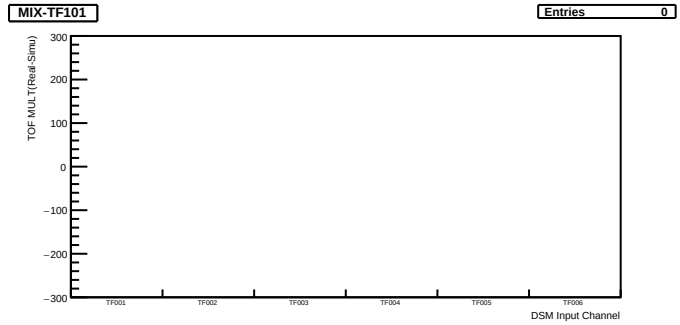

MIX-TF003
Entries 6221544
TOF MULT
TOF tray

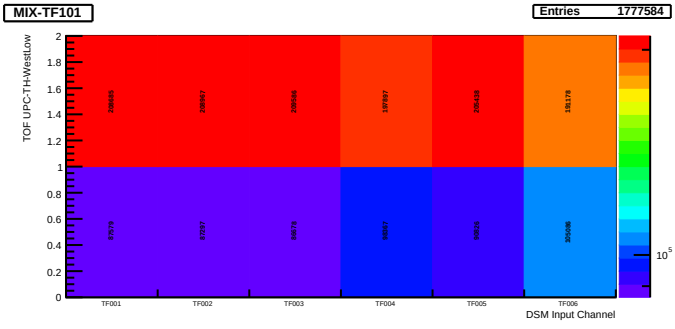

MIX-TF004
Entries 6221544
TOF MULT
TOF tray

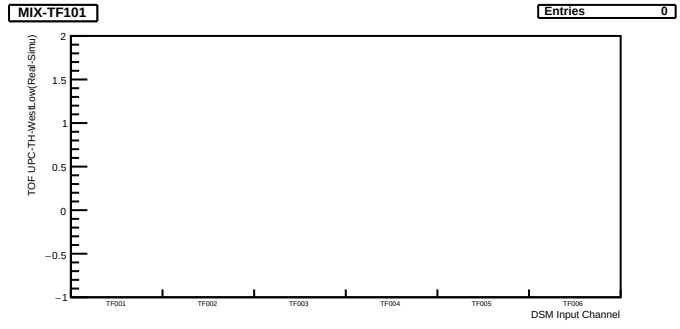

MIX-TF005
Entries 6221544
TOF MULT
TOF tray

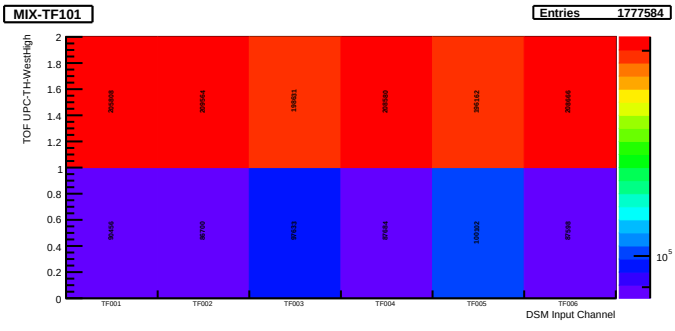

MIX-TF006
Entries 6221544
TOF MULT
TOF tray

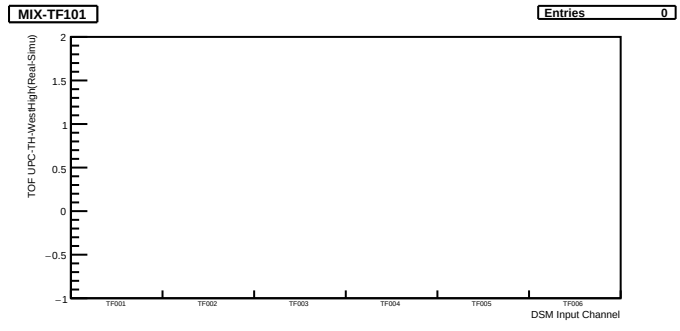

MIX-TF101
Entries 1777584
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

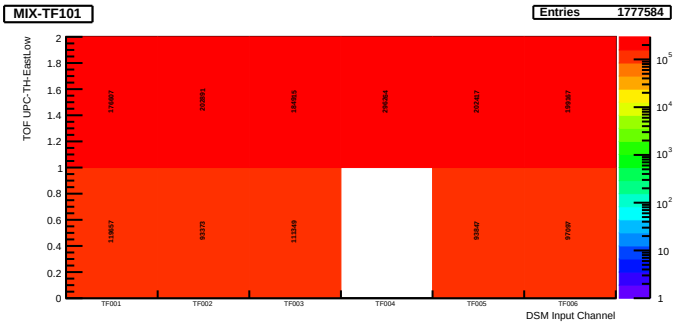

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

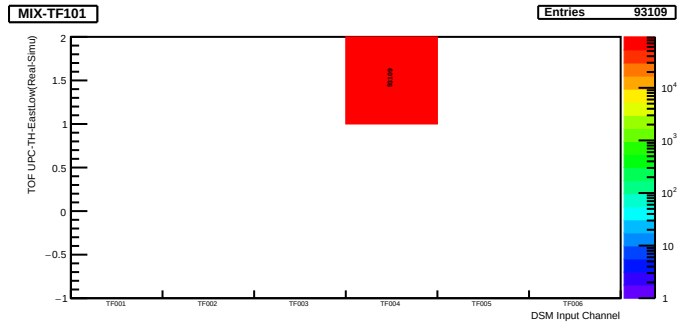

MIX-TF101
Entries 1777584
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

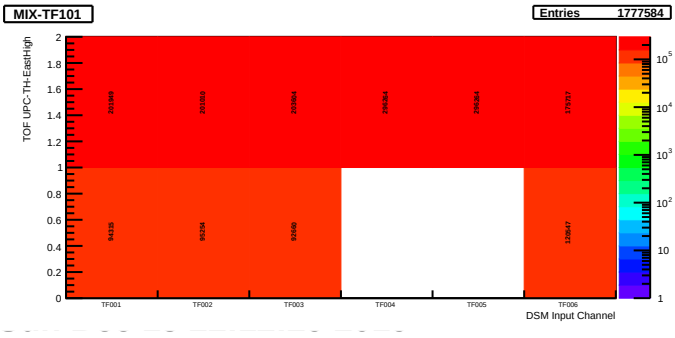

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

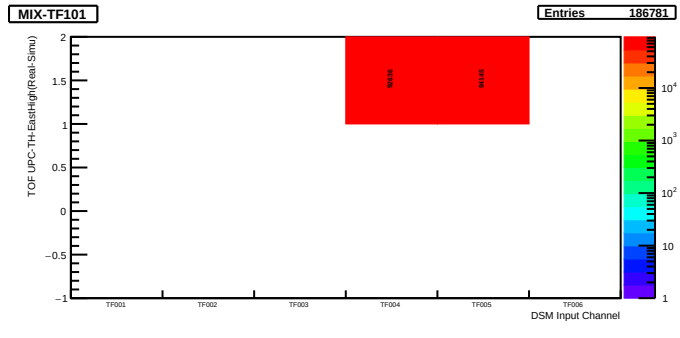

MIX-TF101
Entries 1777584
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

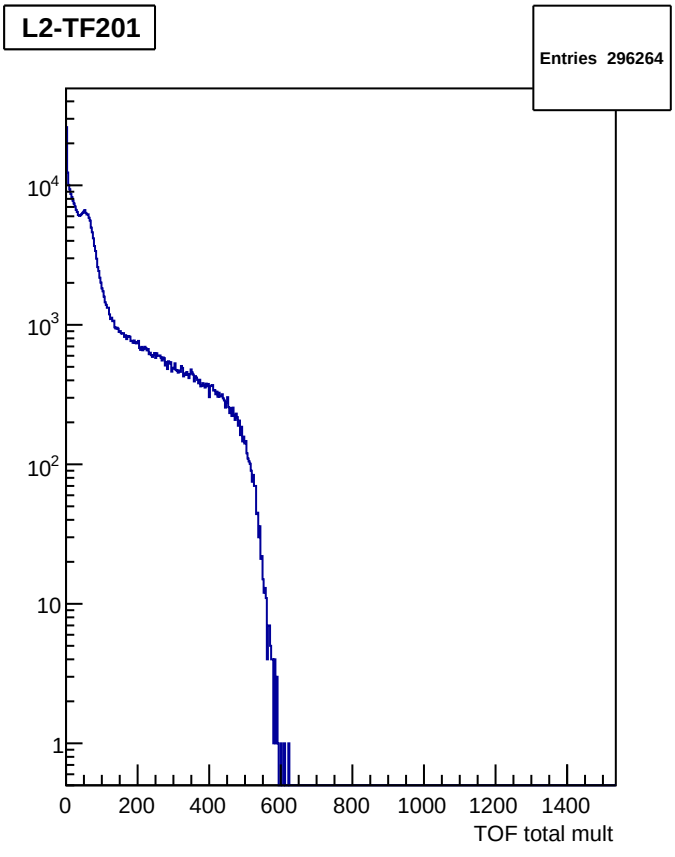

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

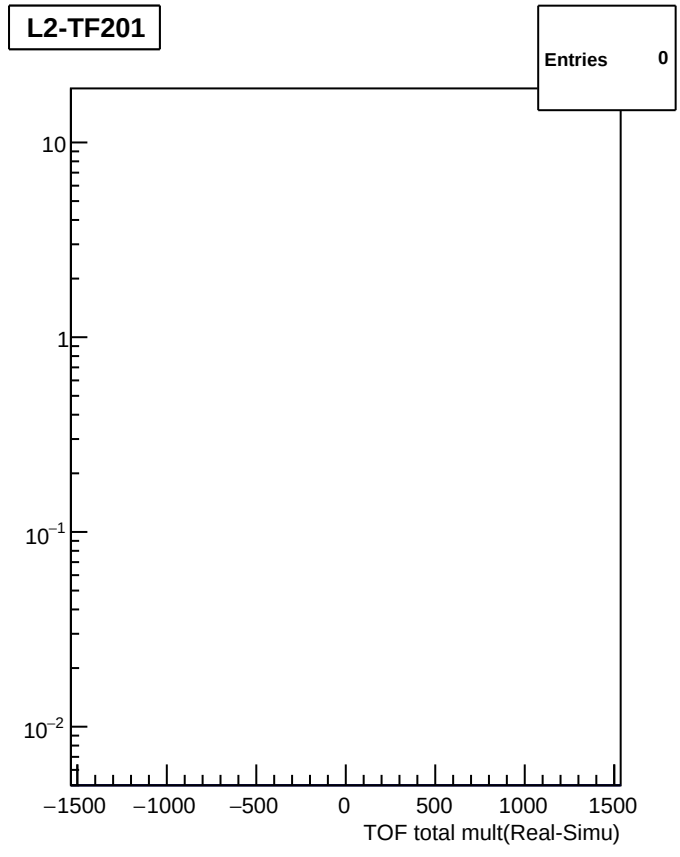

MIX-TF101
Entries 1777584
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

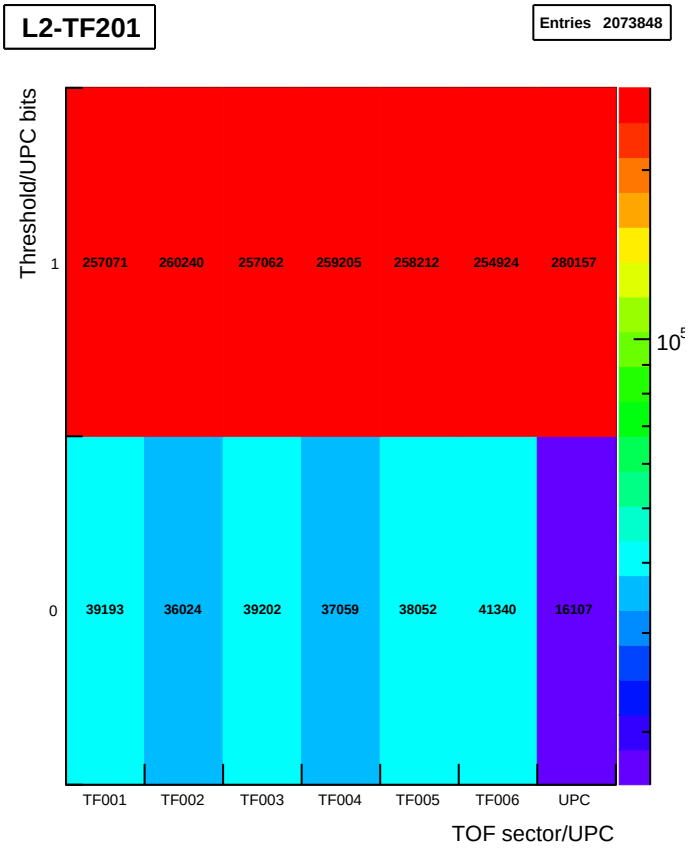

MIX-TF101
Entries 93109
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

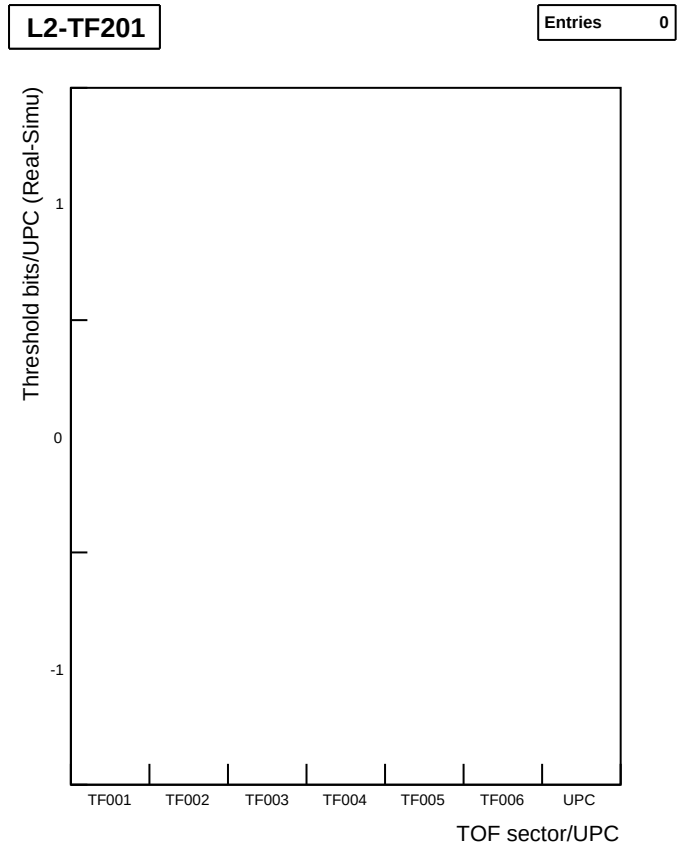

MIX-TF101
Entries 1777584
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

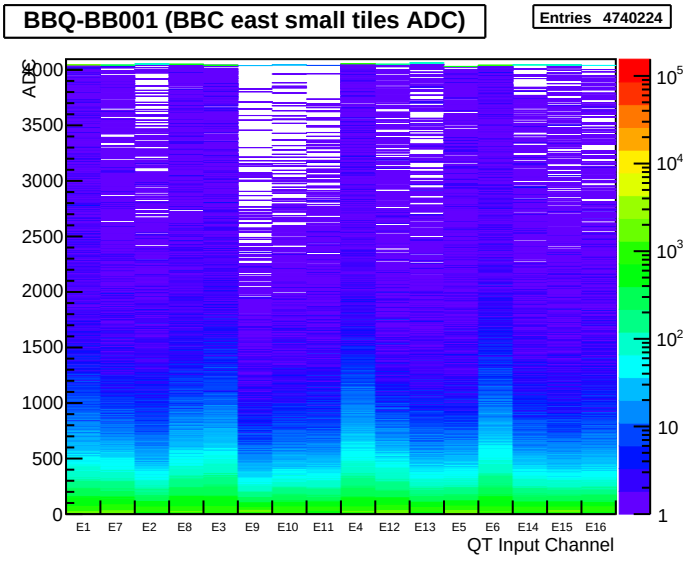

MIX-TF101
Entries 186781
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

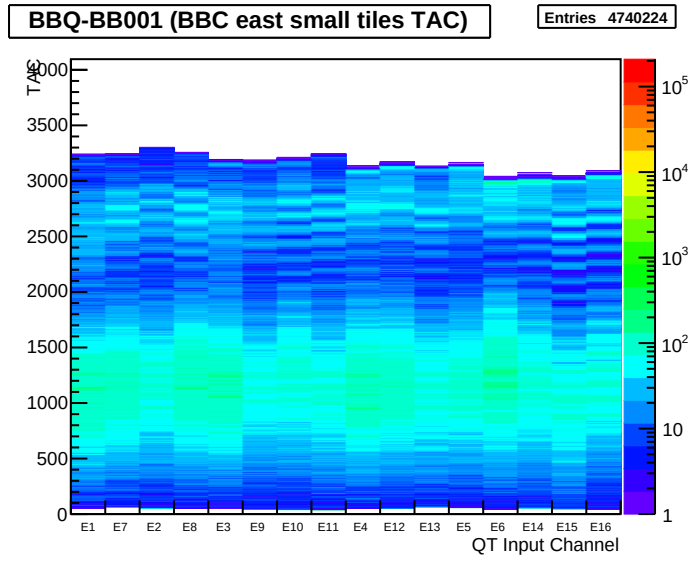

L2-TF201
Entries 296264
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

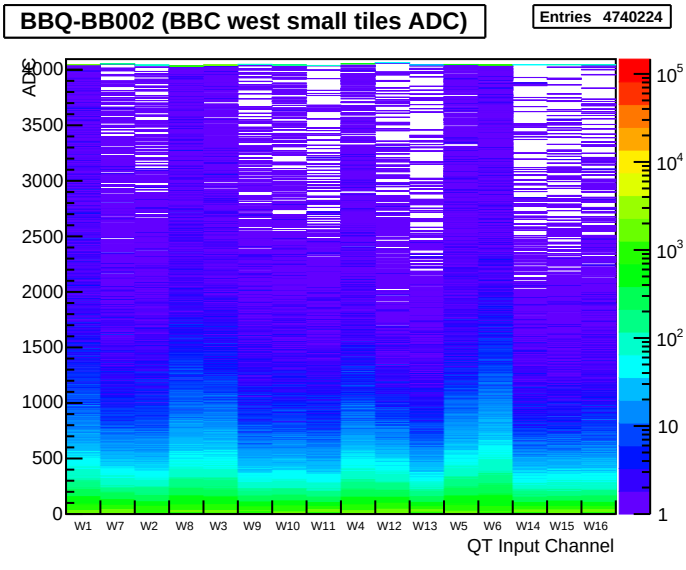

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

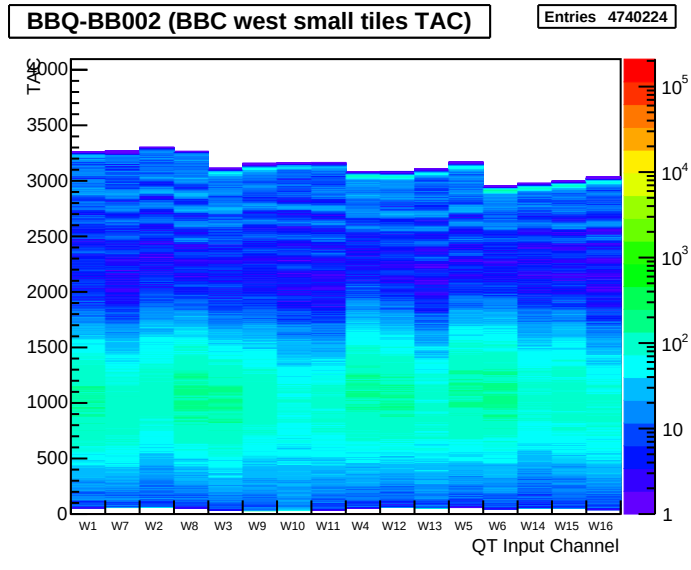

L2-TF201
Entries 2073848
Threshold/UPC bits
1
0
257071
260240
257062
259205
258212
254924
280157
39193
36024
39202
37059
38052
41340
16107
10^5
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

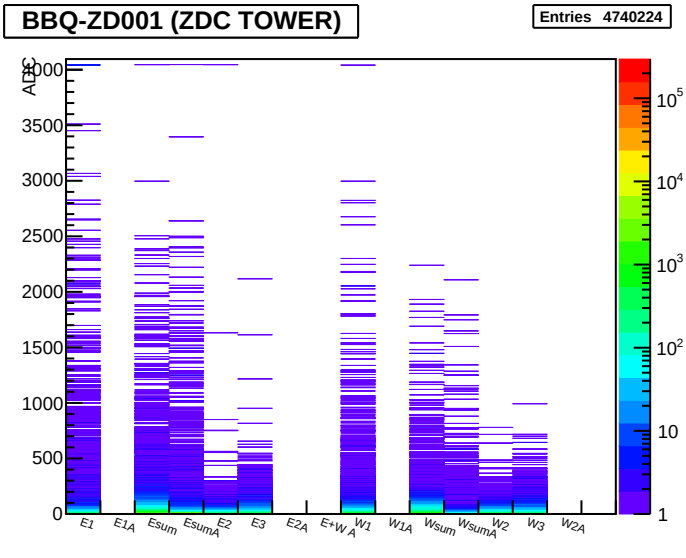

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

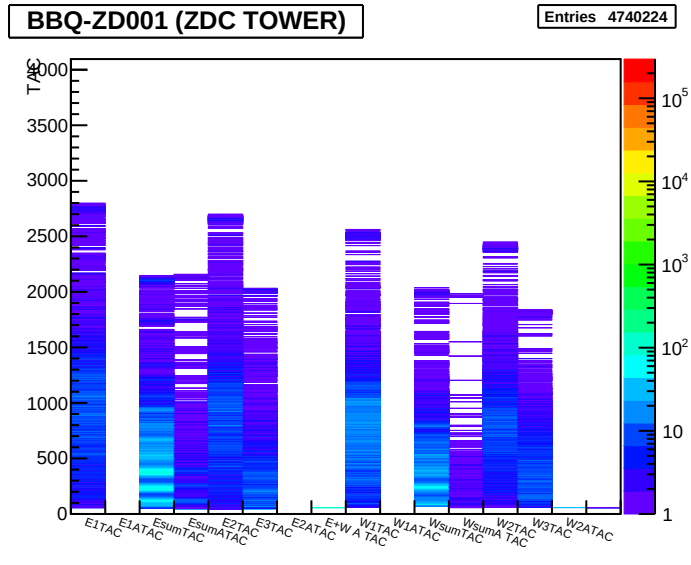

BBQ-BB001 (BBC east small tiles ADC)
Entries 4740224
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

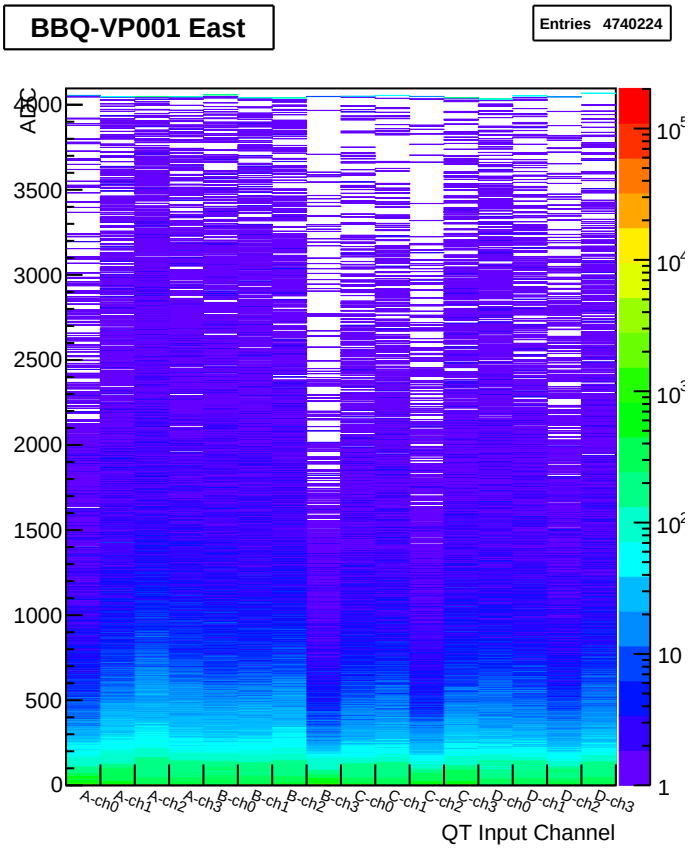

BBQ-BB001 (BBC east small tiles TAC)
Entries 4740224
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

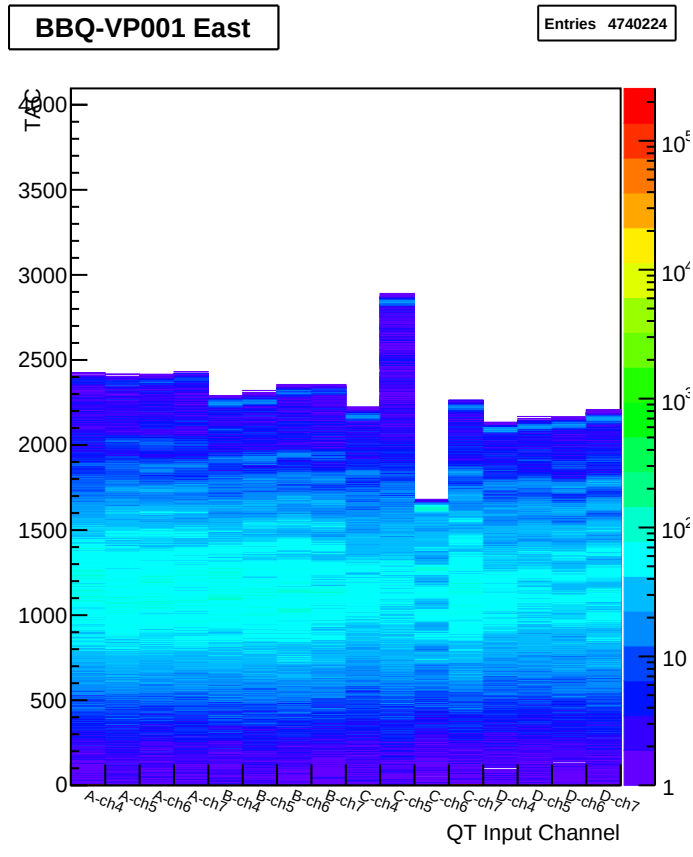

BBQ-BB002 (BBC west small tiles ADC)
Entries 4740224
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

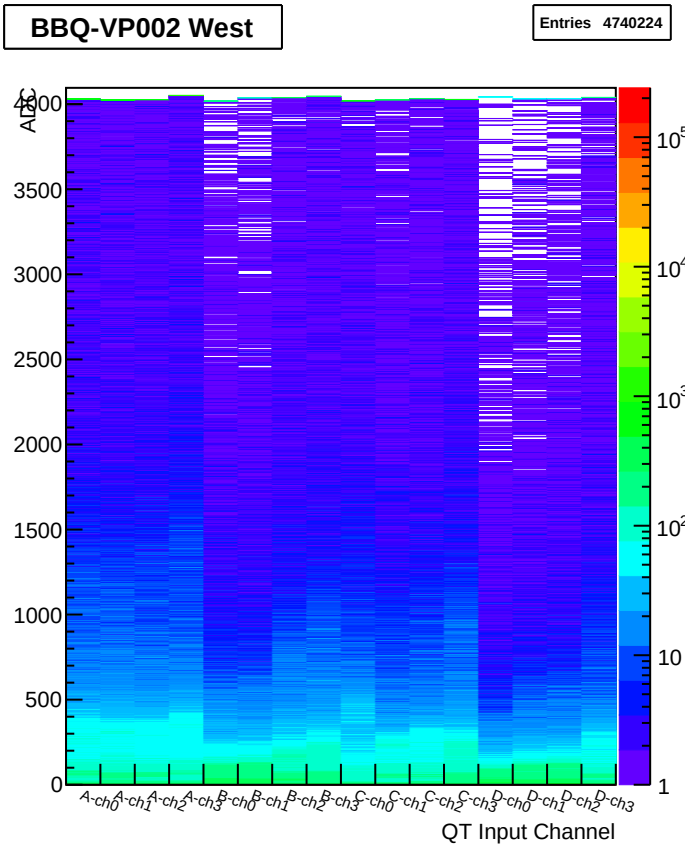

BBQ-BB002 (BBC west small tiles TAC)
Entries 4740224
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

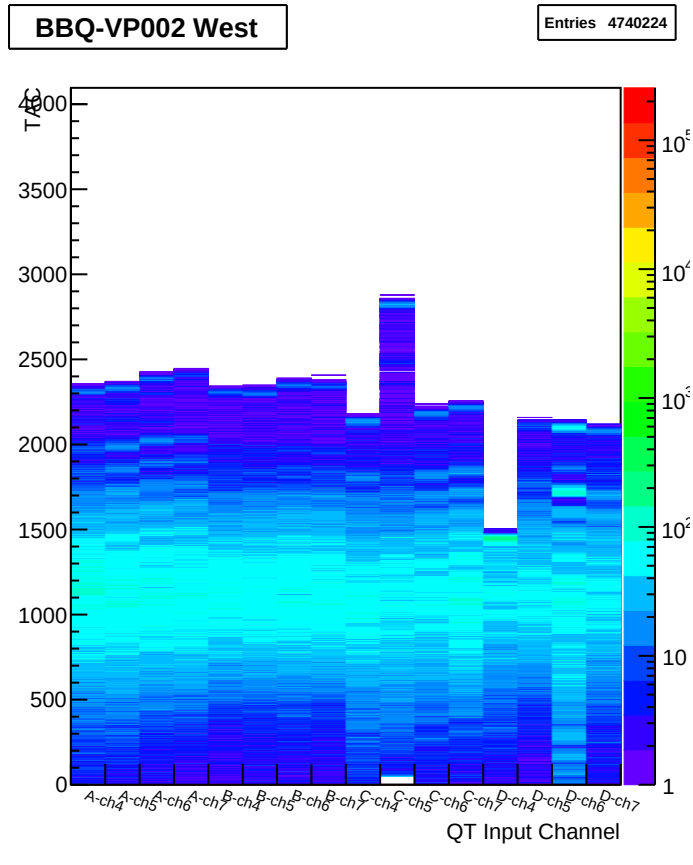

BBQ-ZD001 (ZDC TOWER)
Entries 4740224
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

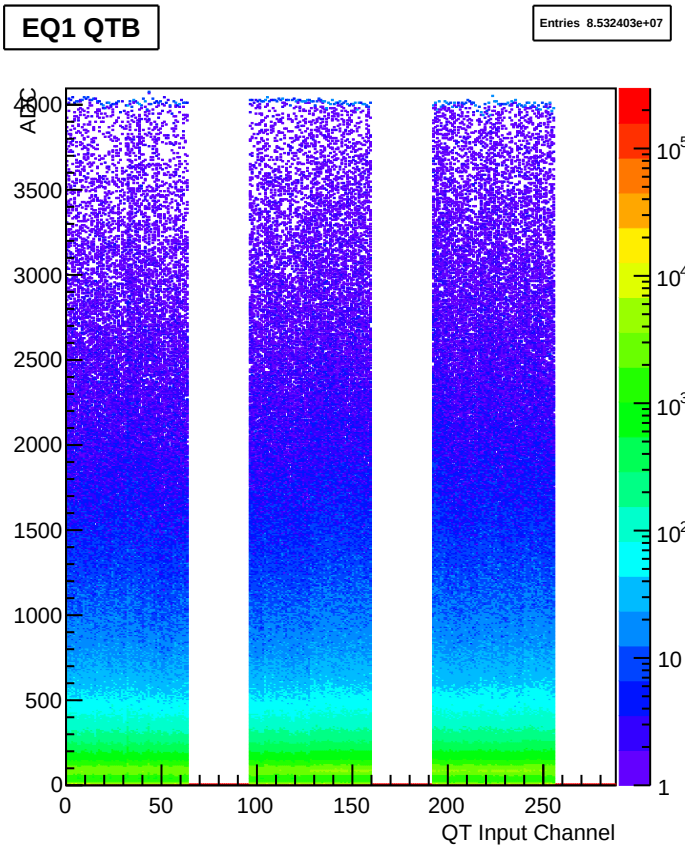

BBQ-ZD001 (ZDC TOWER)
Entries 4740224
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

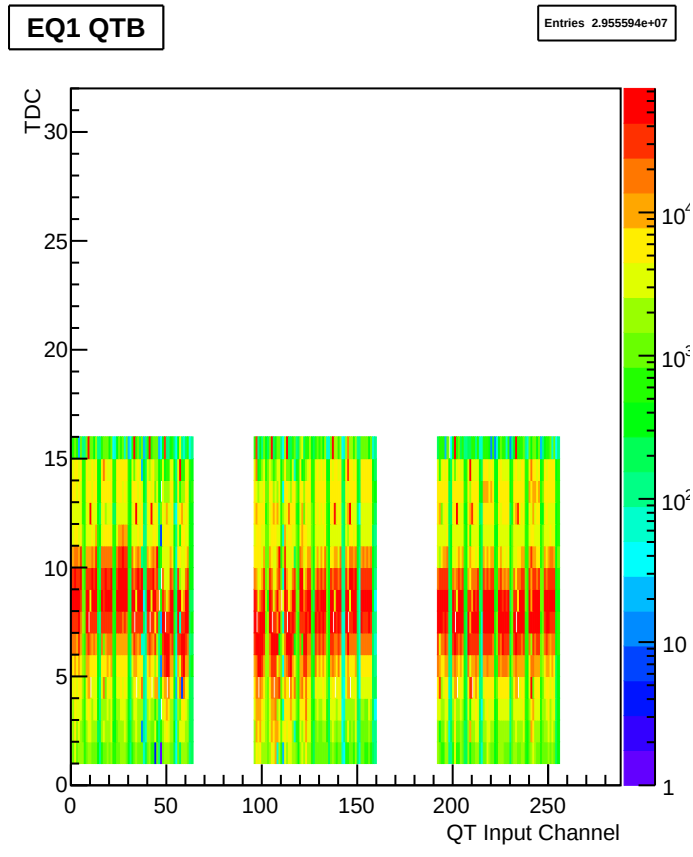

BBQ-VP001 East
Entries 4740224
ADC
QT Input Channel

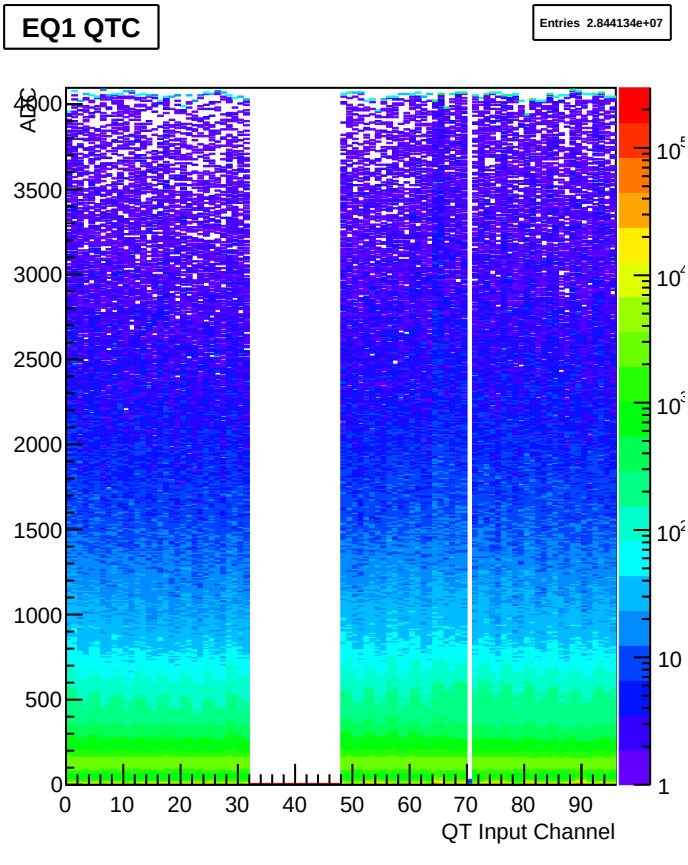

BBQ-VP001 East
Entries 4740224
TADC
QT Input Channel

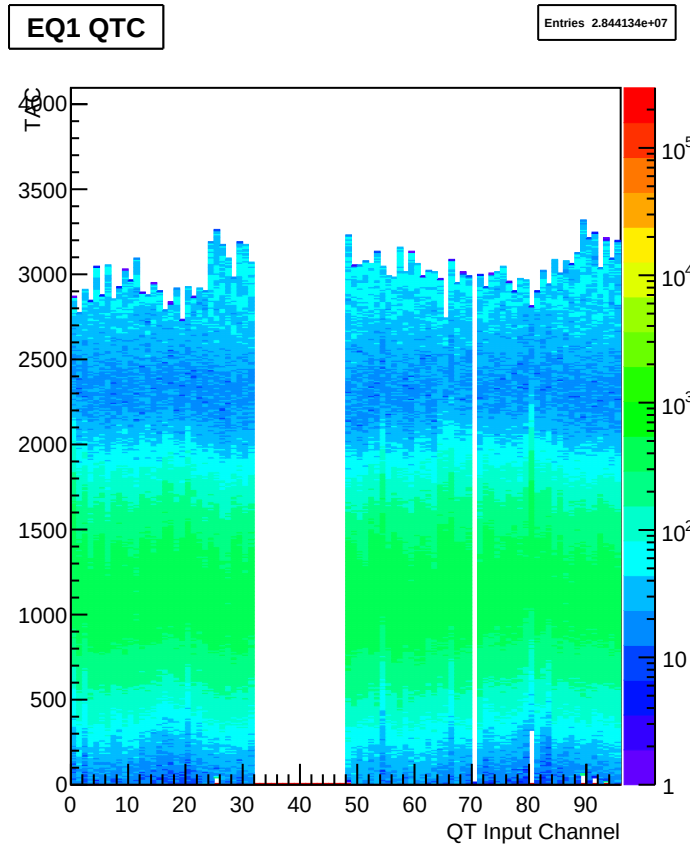

BBQ-VP002 West
Entries 4740224
ADC
QT Input Channel

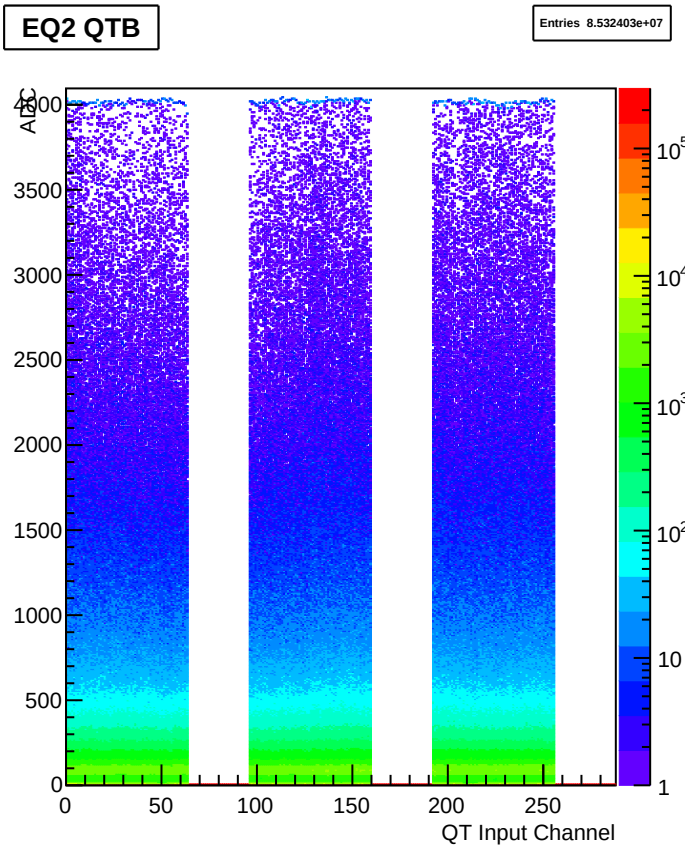

BBQ-VP002 West
Entries 4740224
TADC
QT Input Channel

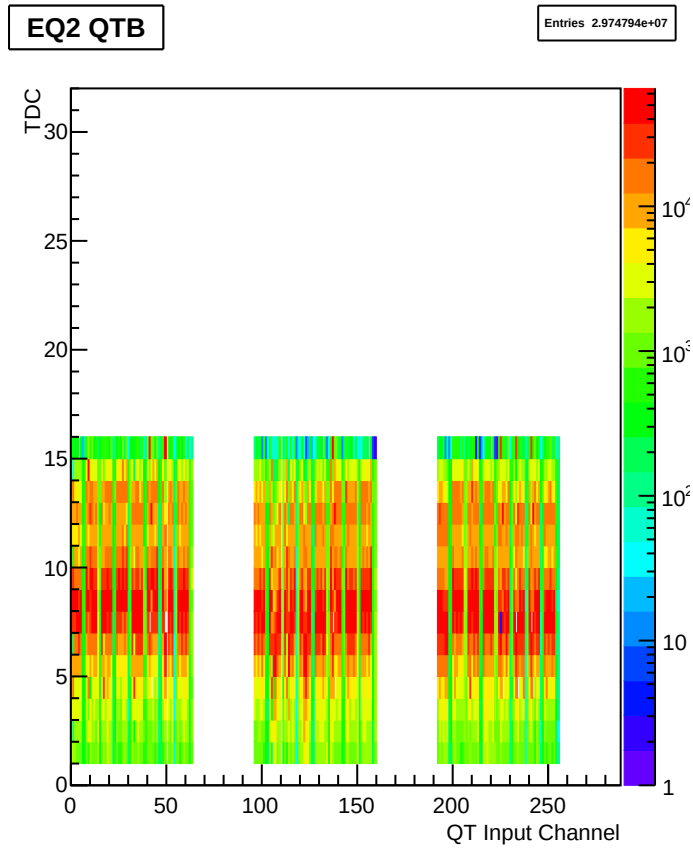

EQ1 QTB
Entries 8.532403e+07
ADC
QT Input Channel

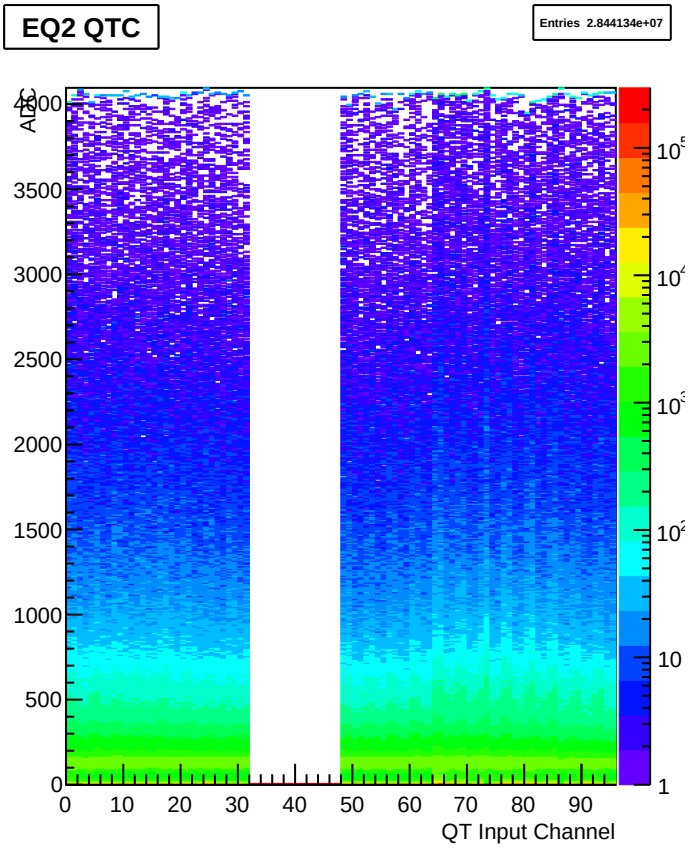

EQ1 QTB
Entries 2.955594e+07
TDC
QT Input Channel

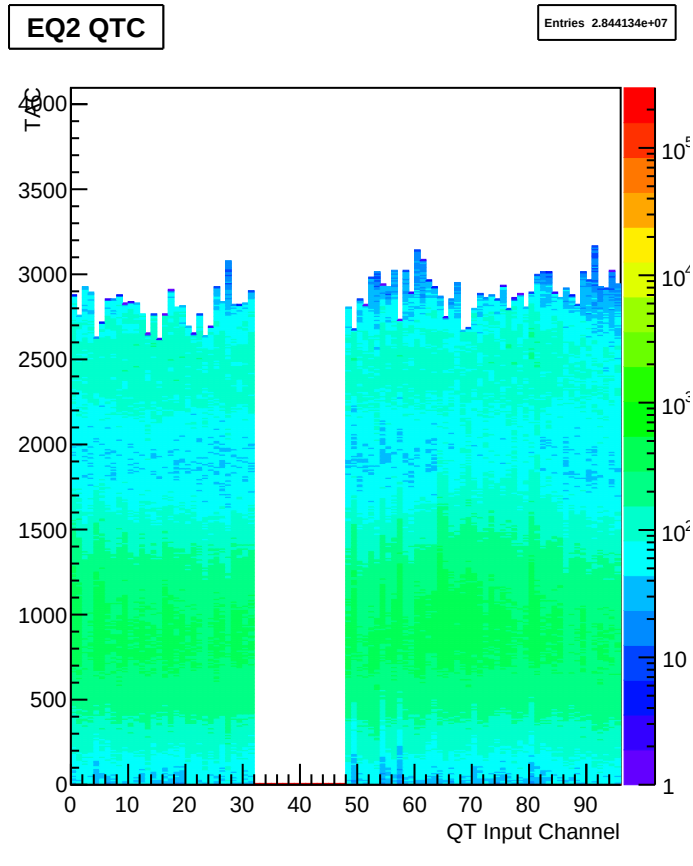

EQ1 QTC
Entries 2.844134e+07
ADC
QT Input Channel

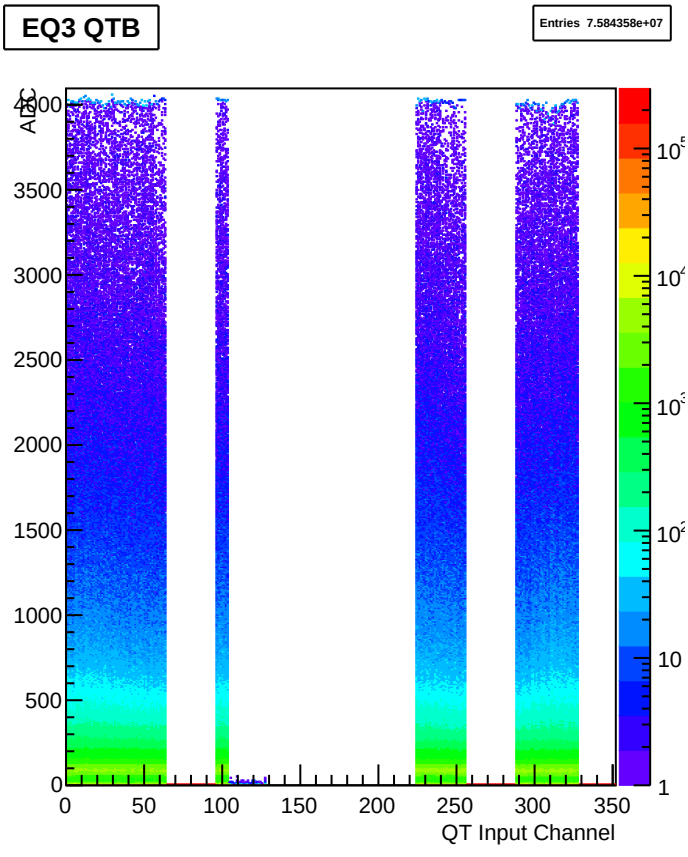

EQ1 QTC
Entries 2.844134e+07
TADC
QT Input Channel

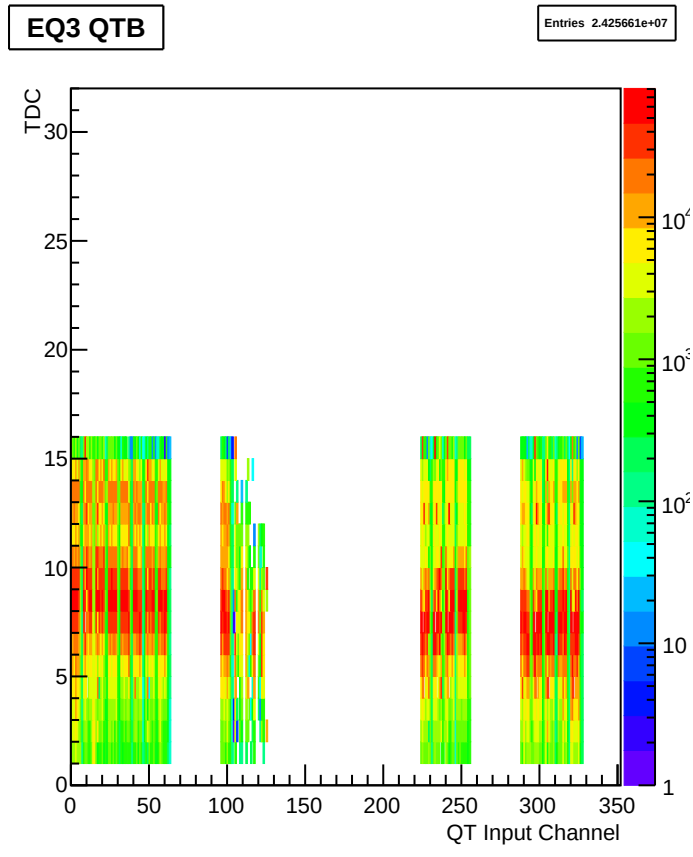

EQ2 QTB
Entries 8.532403e+07
ADC
QT Input Channel

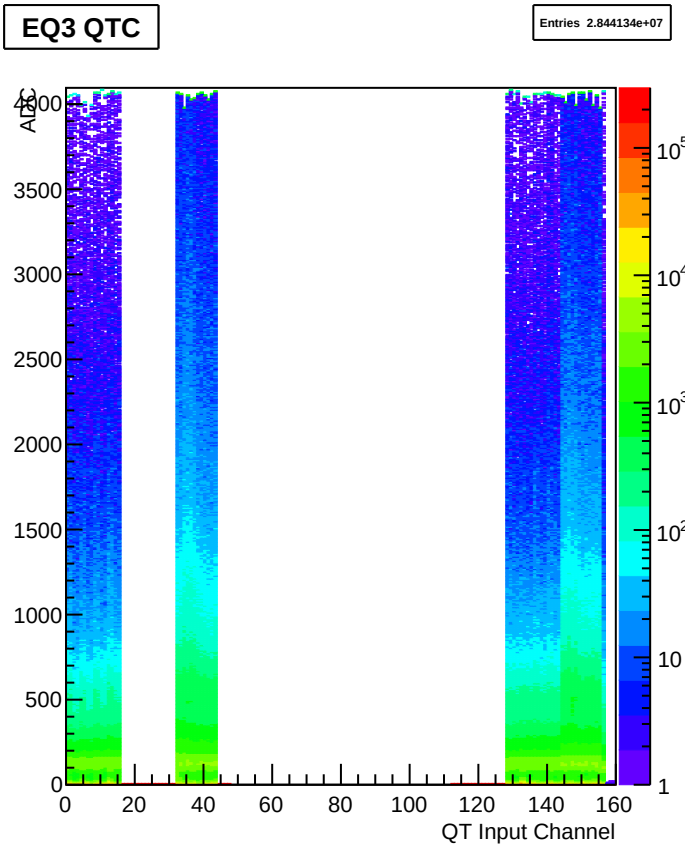

EQ2 QTB
Entries 2.974794e+07
TDC
QT Input Channel

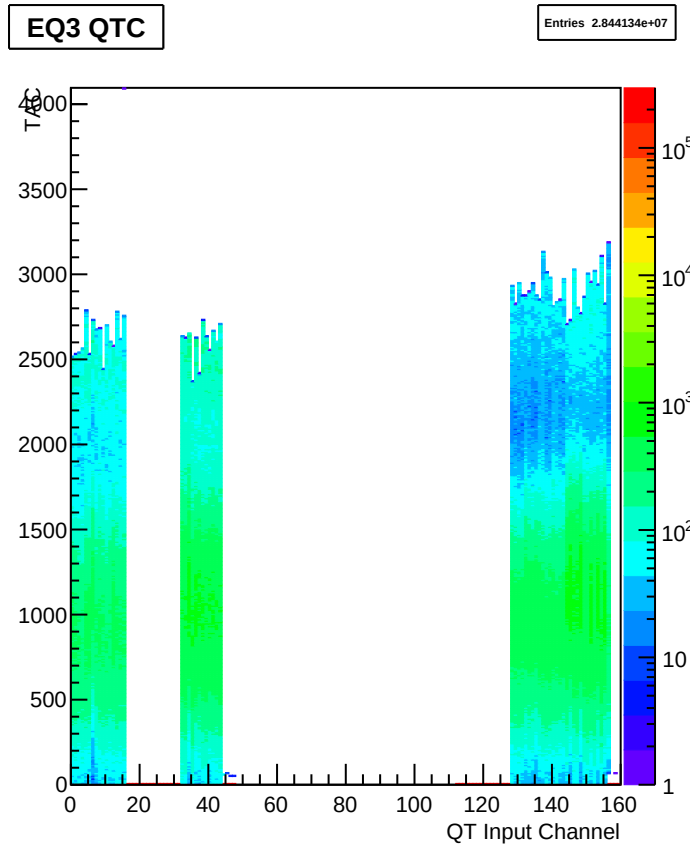

EQ2 QTC
Entries 2.844134e+07
ADC
QT Input Channel

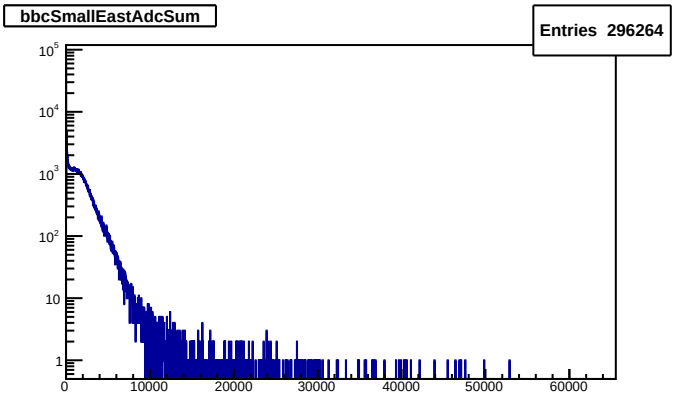

EQ2 QTC
Entries 2.844134e+07
TADC
QT Input Channel

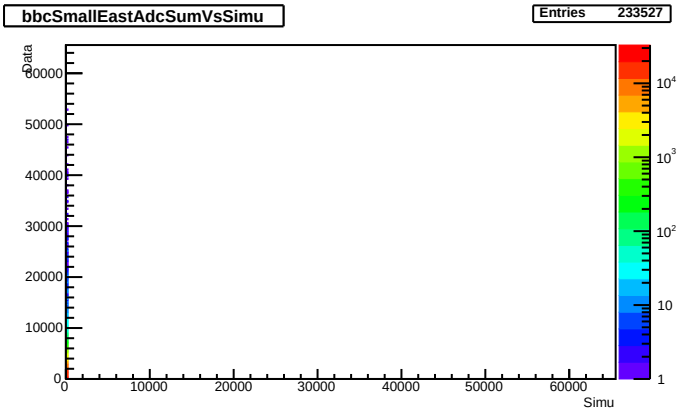

EQ3 QTB
Entries 7.584358e+07
ADC
QT Input Channel

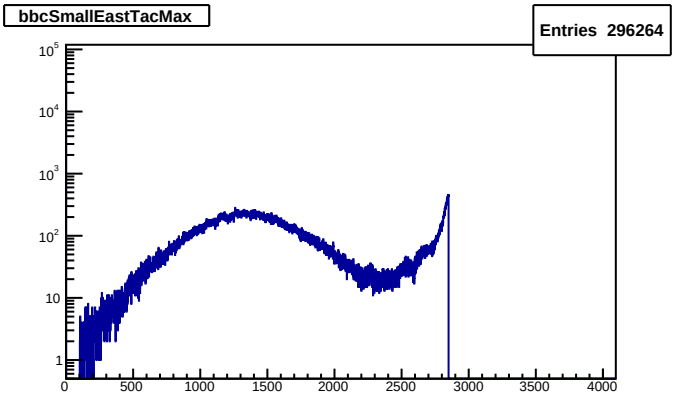

EQ3 QTB
Entries 2.425661e+07
TDC
QT Input Channel

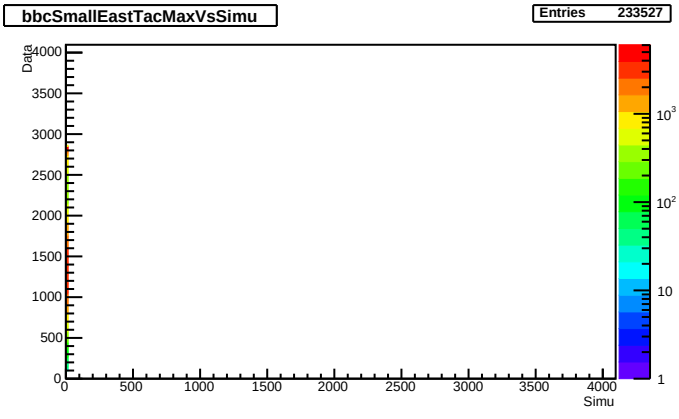

EQ3 QTC
Entries 2.844134e+07
ADC
QT Input Channel


EQ3 QTC
Entries 2.844134e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 296264


bbcSmallEastAdcSumVsSimu
Entries 233527
Data
Simu


bbcSmallEastTacMax
Entries 296264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Entries 233527
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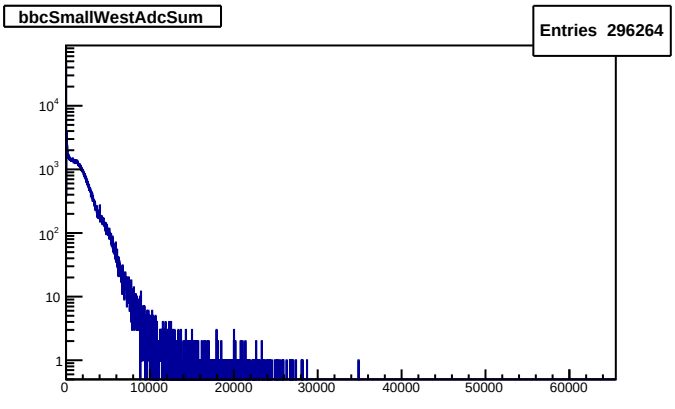
Simu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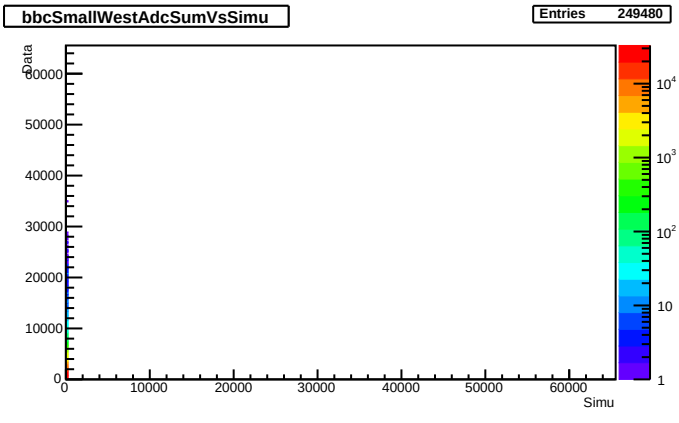
Entries 296264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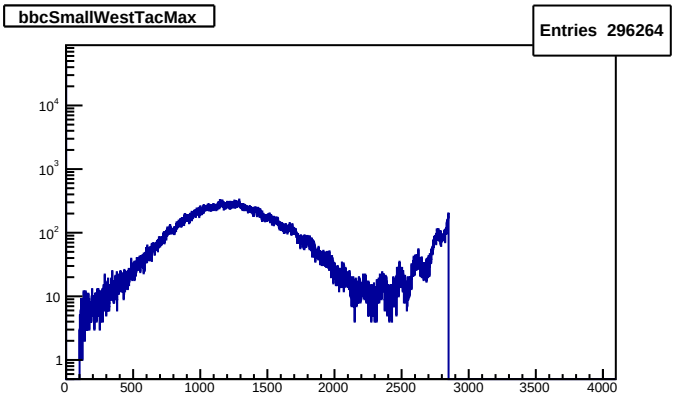
Entries 249480
Data
Simu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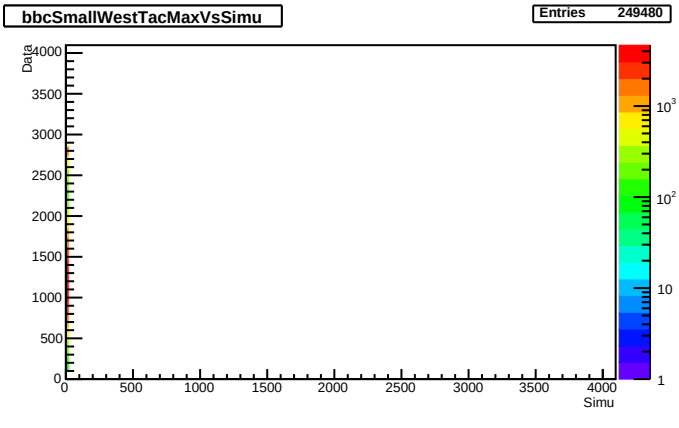
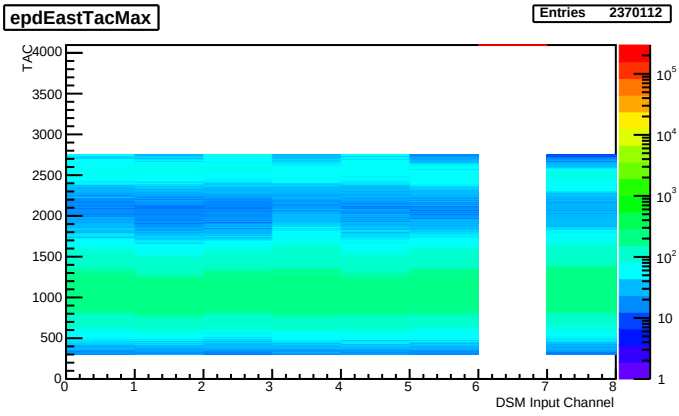
Entries 296264


bbcSmallWestTacMaxVsSimu
Entries 249480
Data
Simu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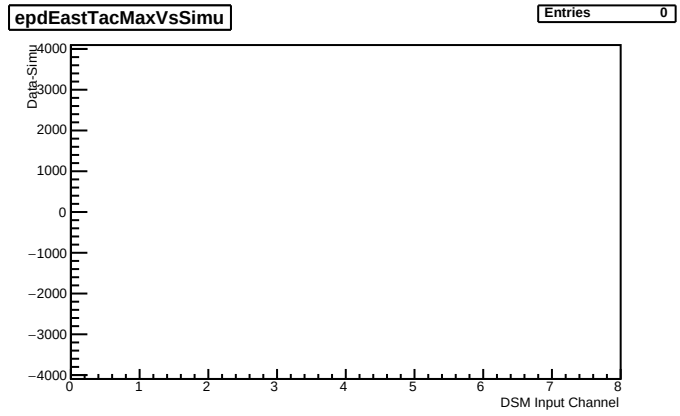
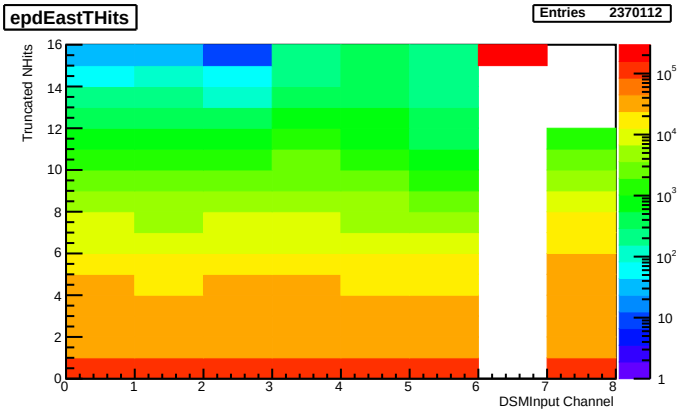
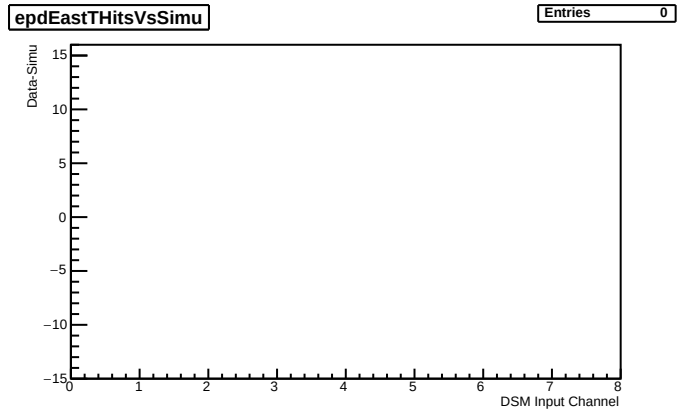
Entries 2370112
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2370112
Truncated NHits
DSMInput Channel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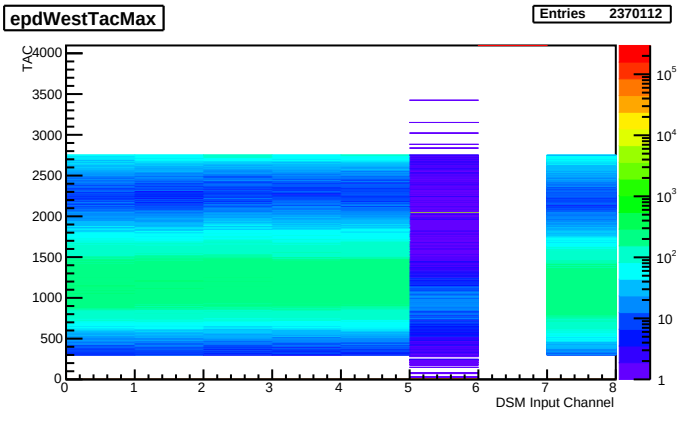
Data-Simu
DSM Input Channel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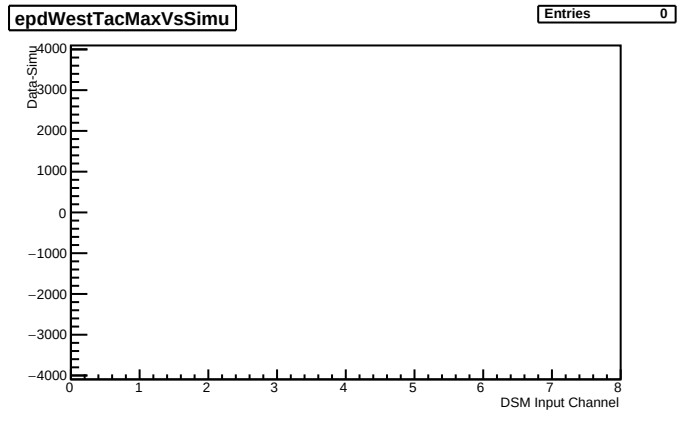
DSM Input Channel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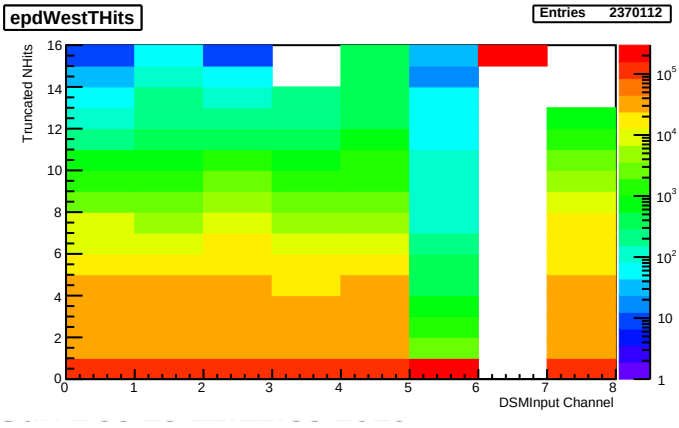
Data-Simu
DSM Input Channel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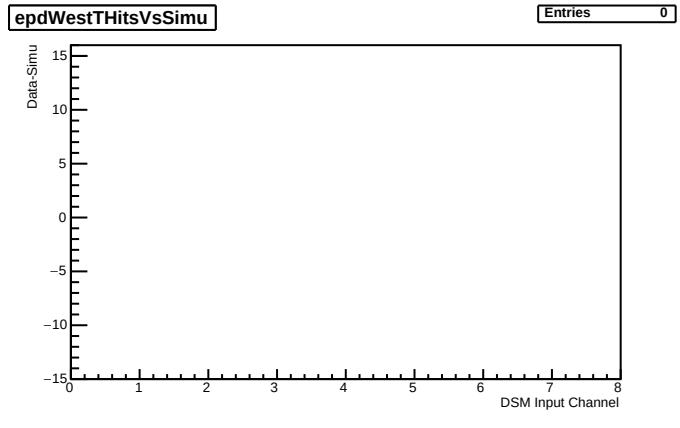
Entries 2370112
Truncated NHits
DSMInput Channel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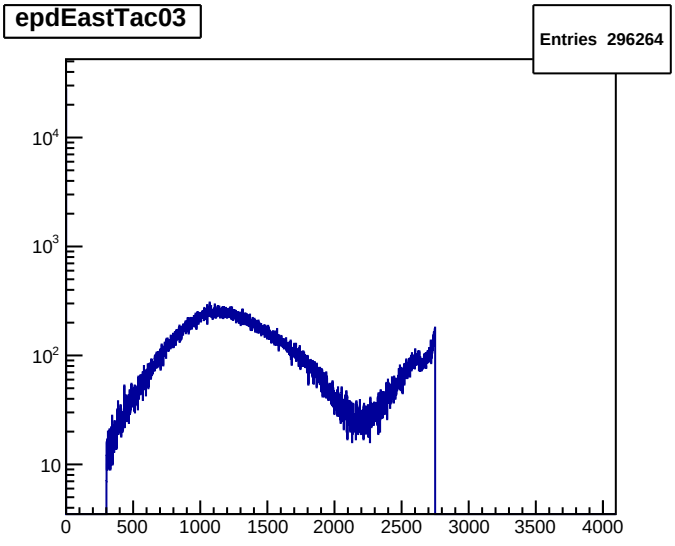
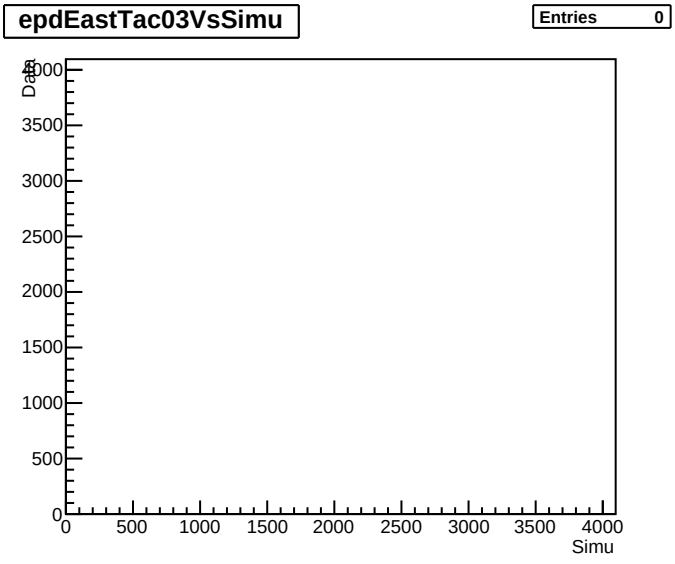
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 296264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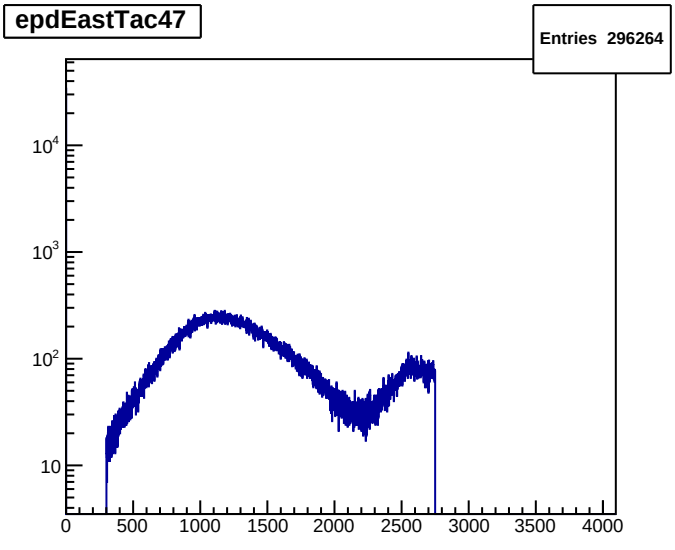
Data
Simu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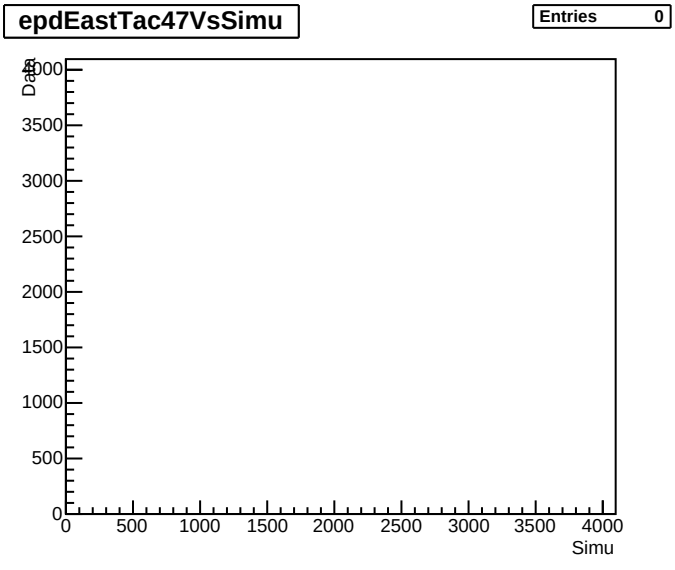
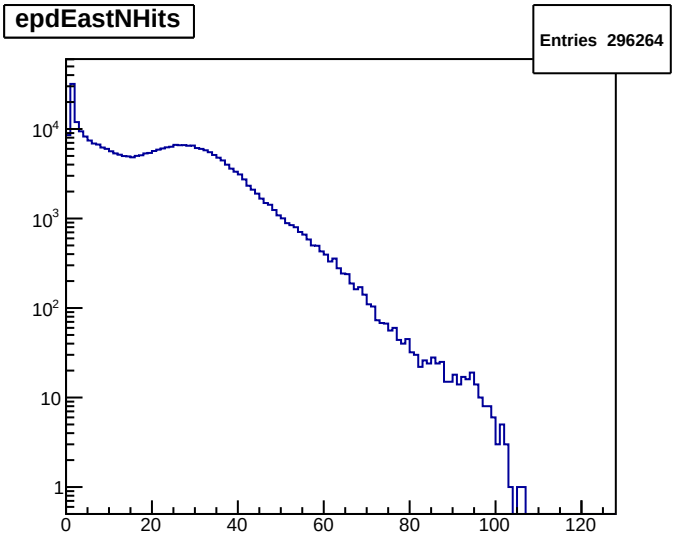
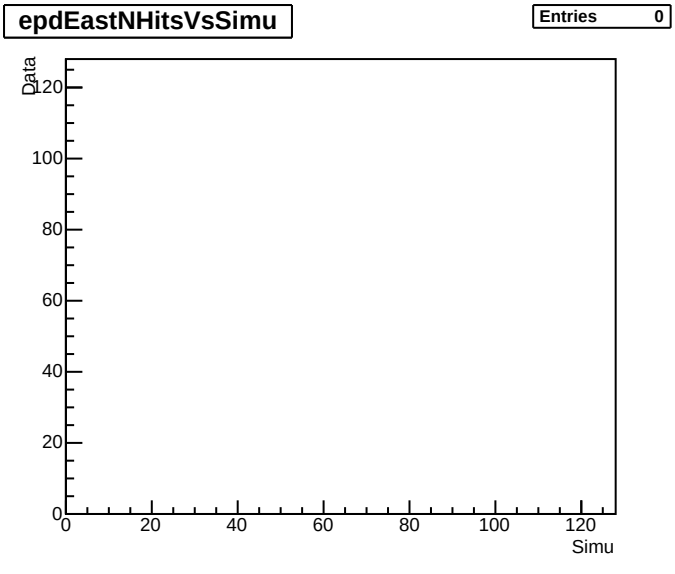
Entries 296264


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 296264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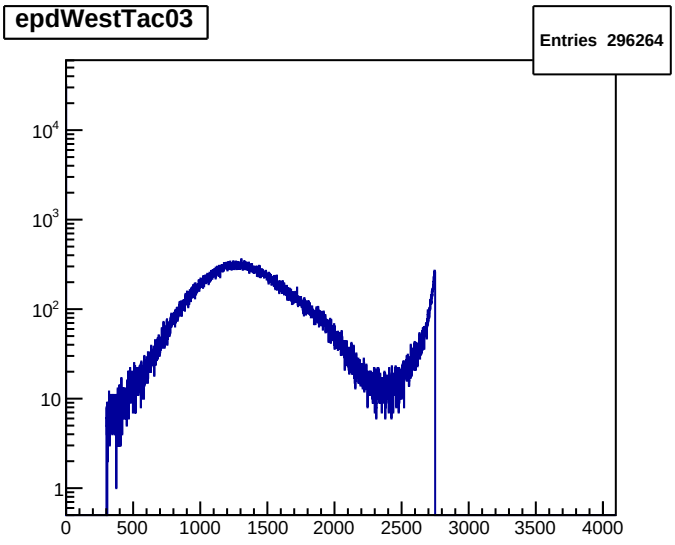
Entries 0
Data
Simu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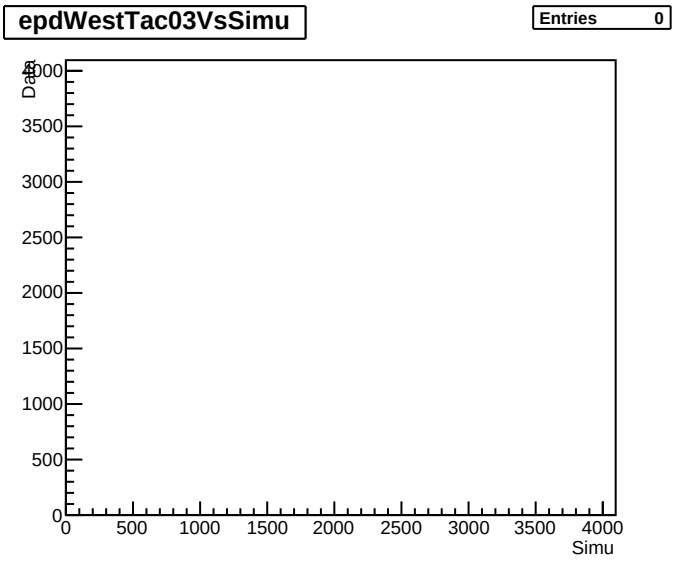
Entries 296264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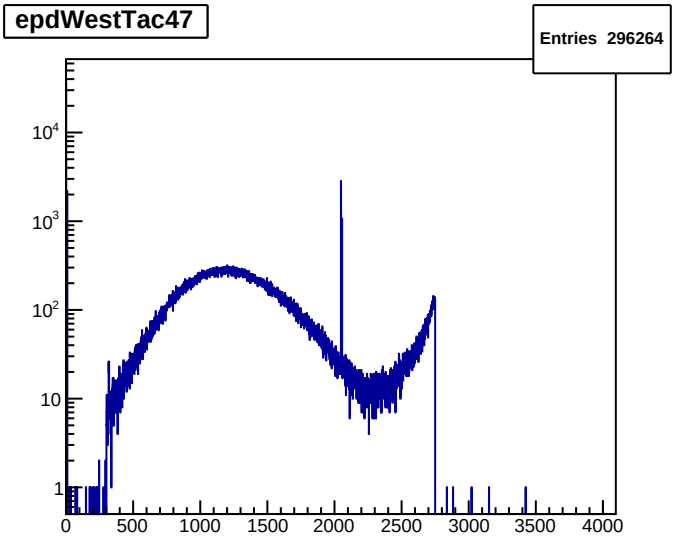
Entries 0
Data
Simu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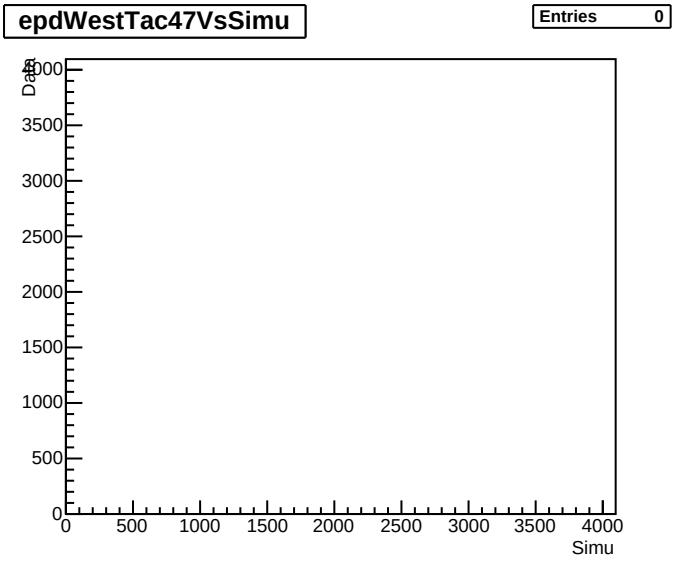
Entries 296264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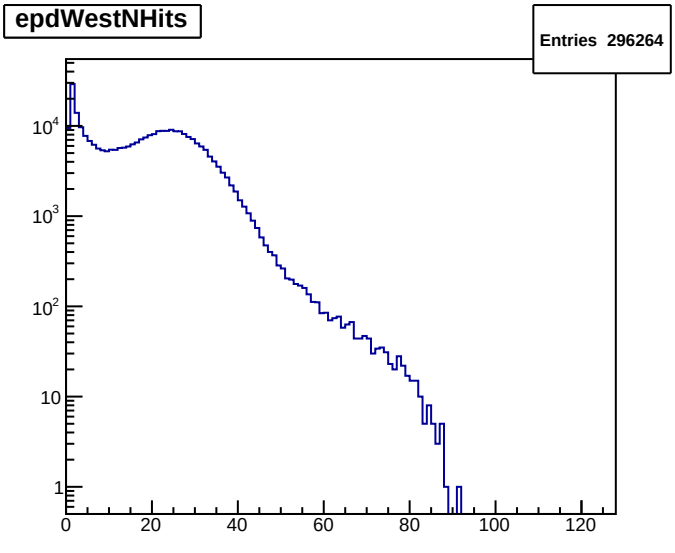
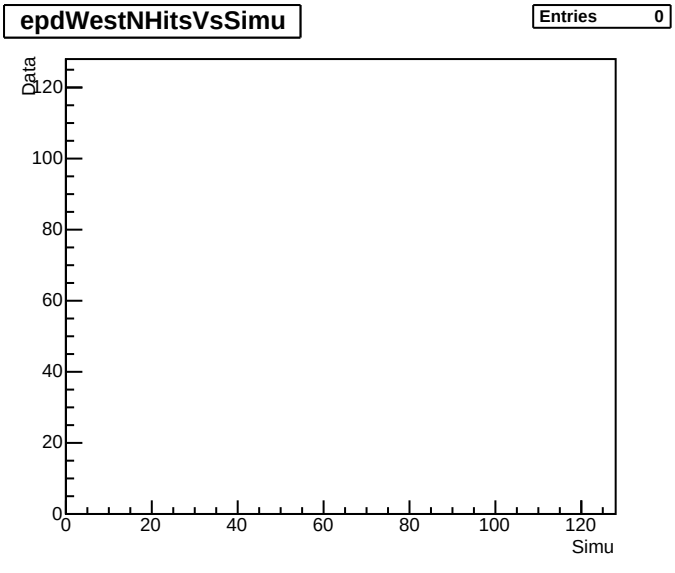
Entries 0
Data
Simu


epdWestNHits
Entries 296264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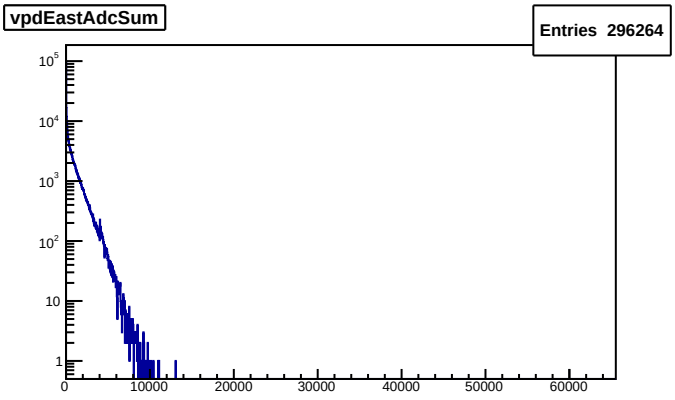
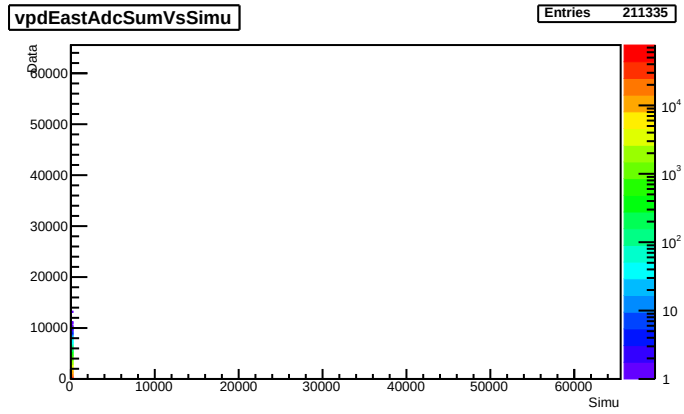
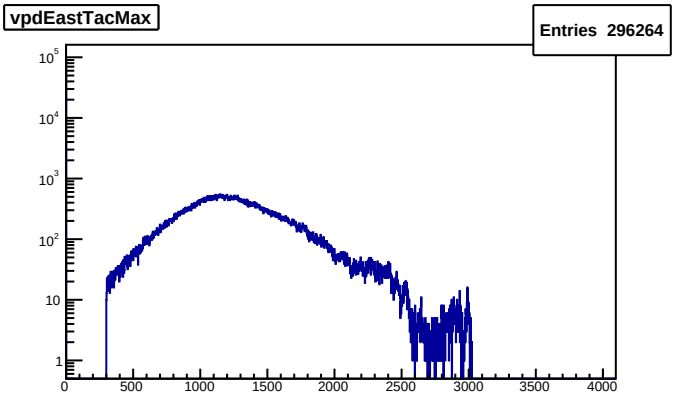
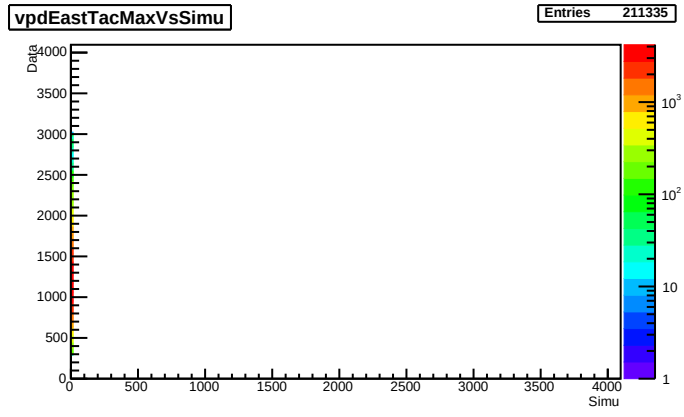
Entries 0
Data
Simu


vpdEastAdcSum
Entries 296264


vpdEastAdcSumVsSimu
Entries 211335
Data
Simu


vpdEastTacMax
Entries 296264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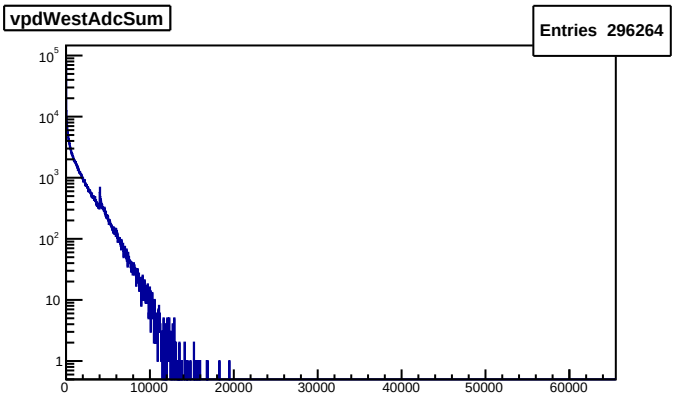
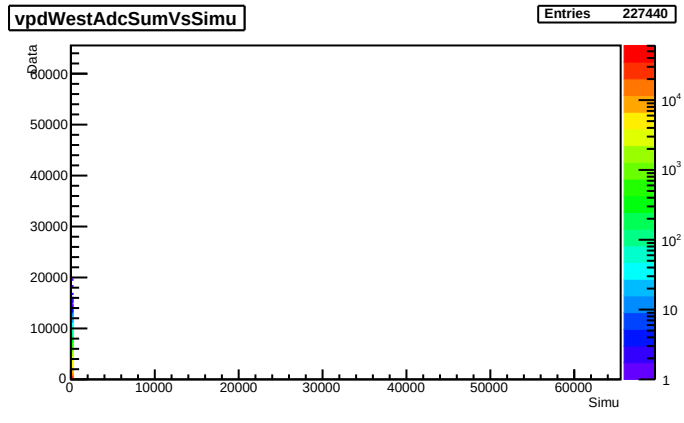
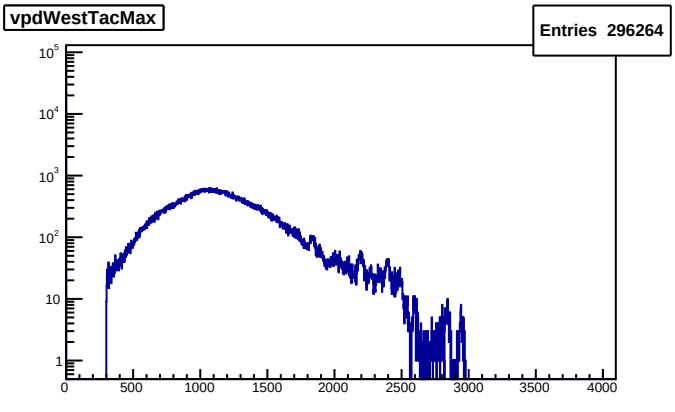
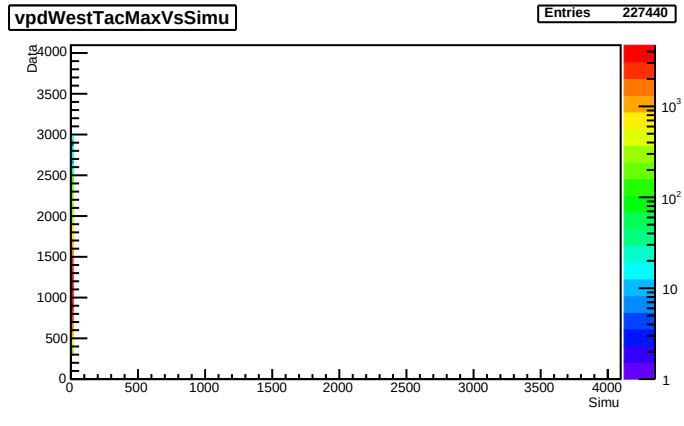
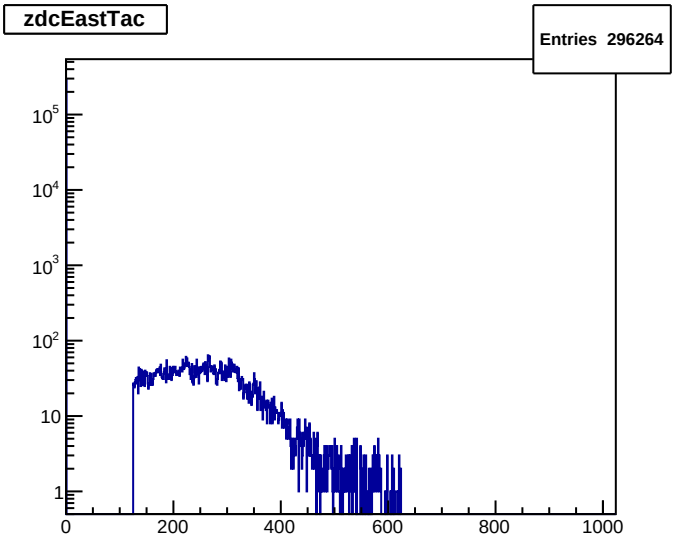
Entries 211335
Data
Simu

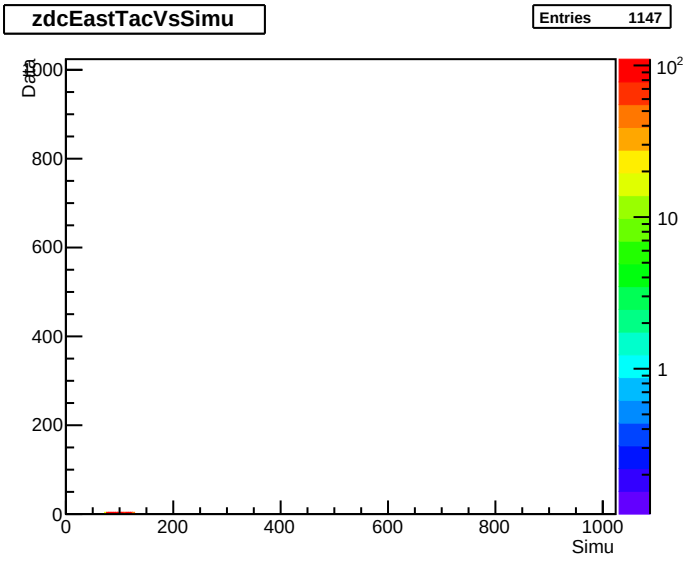

vpdWestAdcSum
Entries 296264

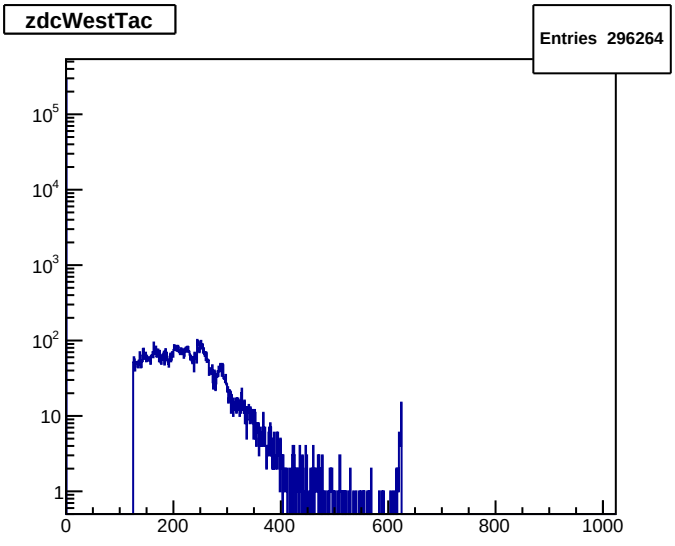

vpdWestAdcSumVsSimu
Entries 227440
Data
Simu

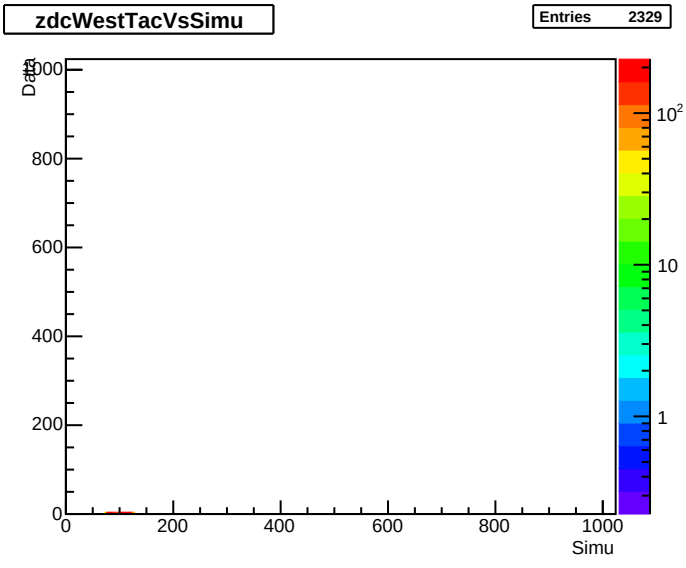

vpdWestTacMax
Entries 296264

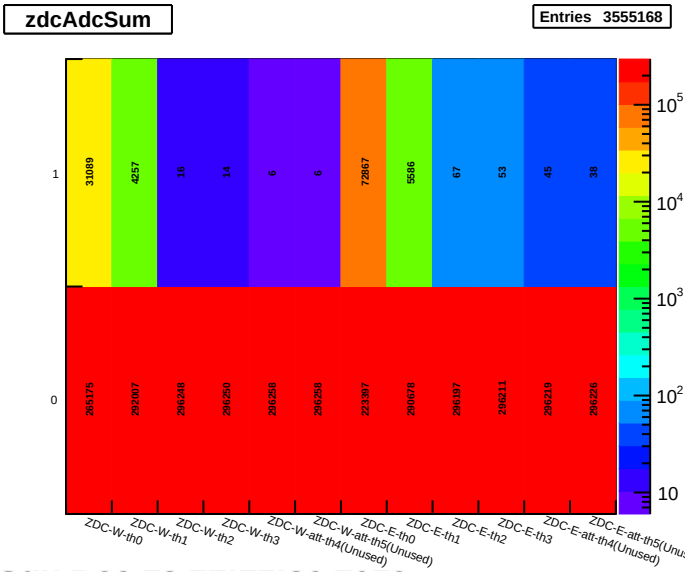

vpdWestTacMaxVsSimu
Entries 227440
Data
Simu


zdcEastTac
Entries 296264


zdcEastTacVsSimu
Entries 1147
Data
Simu


zdcWestTac
Entries 296264


zdcWestTacVsSimu
Entries 2329
Data
Simu


zdcAdcSum
Entries 3555168
31089
4257
16
14
6
6
72867
5586
67
53
45
38
265175
292007
296248
296250
296258
296258
223397
290678
296197
296211
296219
296226
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
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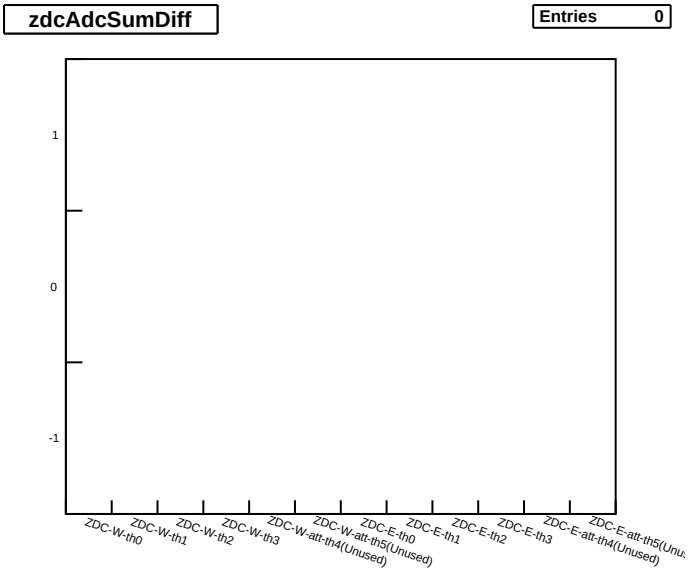
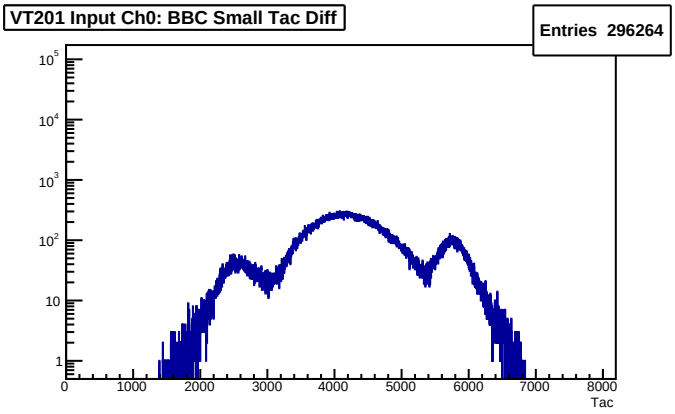
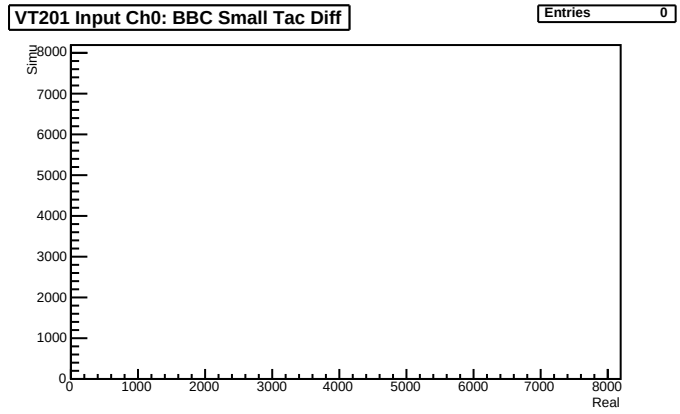
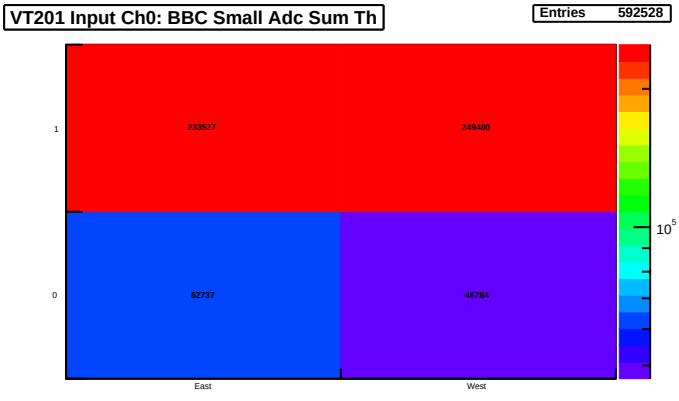
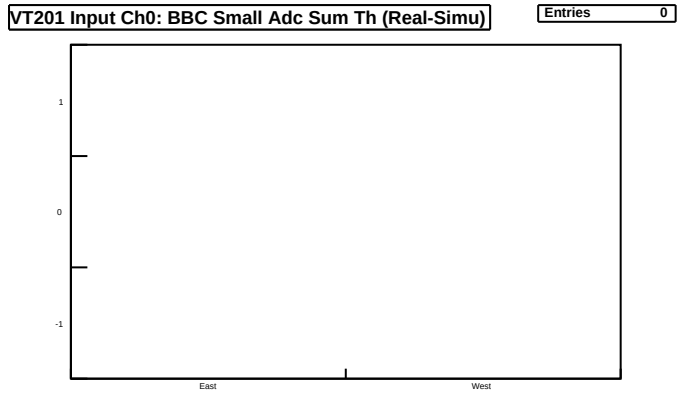
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

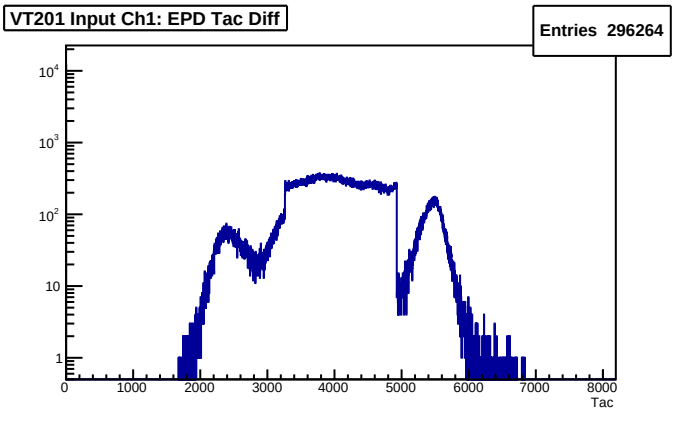

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

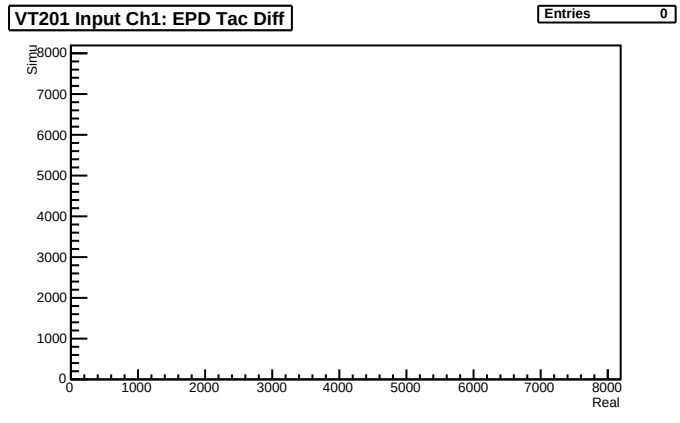

VT201 Input Ch0: BBC Small Tac Diff
Entries 296264
Tac

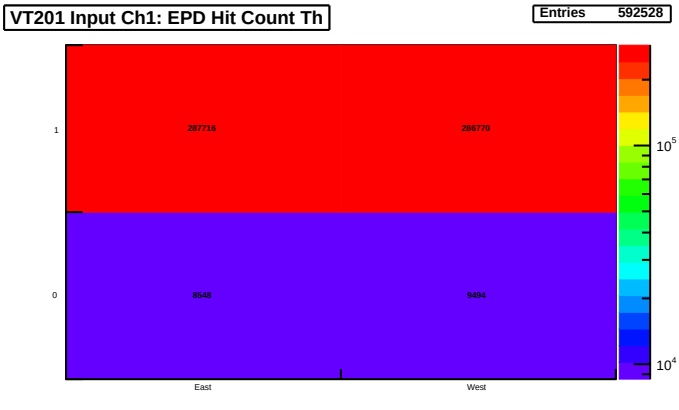

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

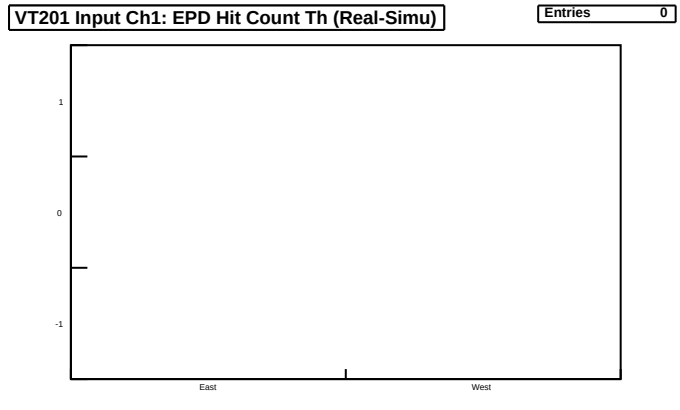

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 592528
233527
249480
62737
46784
East
West

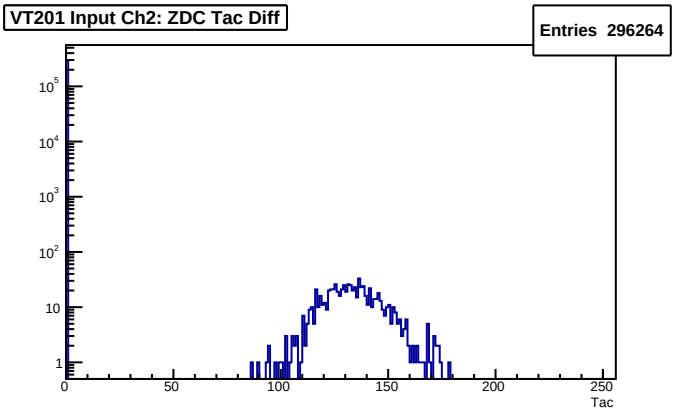

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

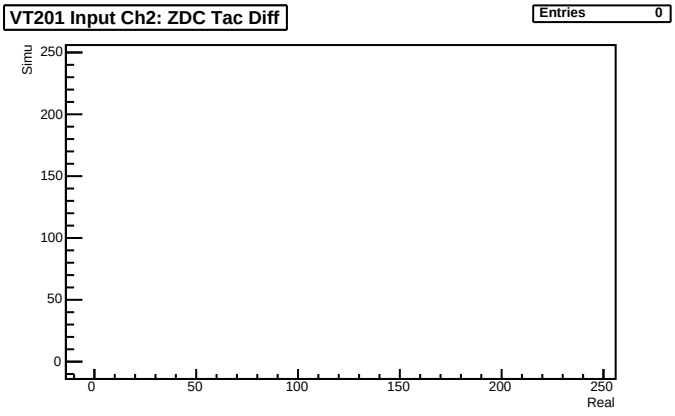

VT201 Input Ch1: EPD Tac Diff
Entries 296264
Tac

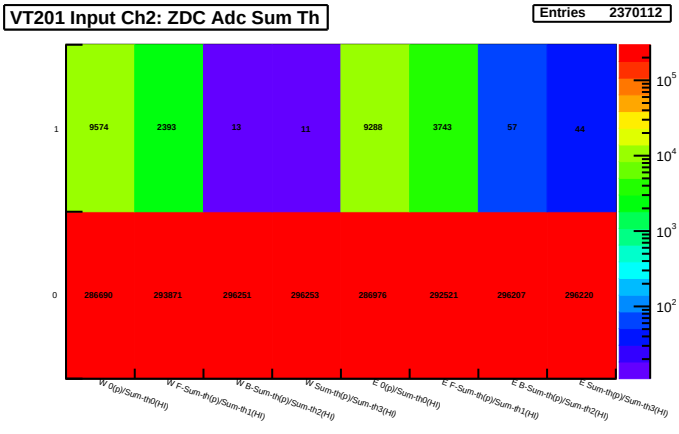

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

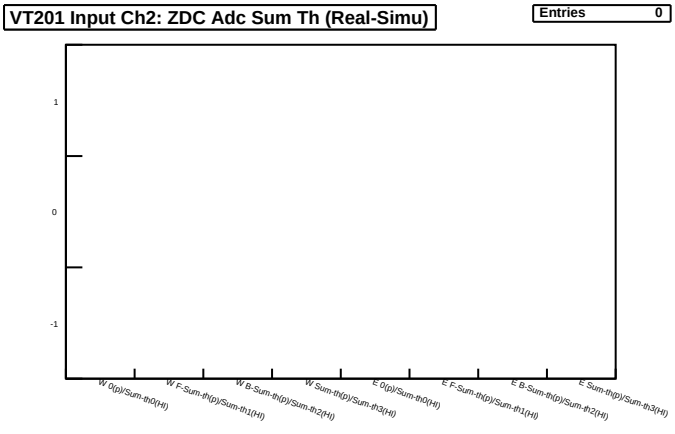

VT201 Input Ch1: EPD Hit Count Th
Entries 592528
287716
286770
8548
9494
East
West

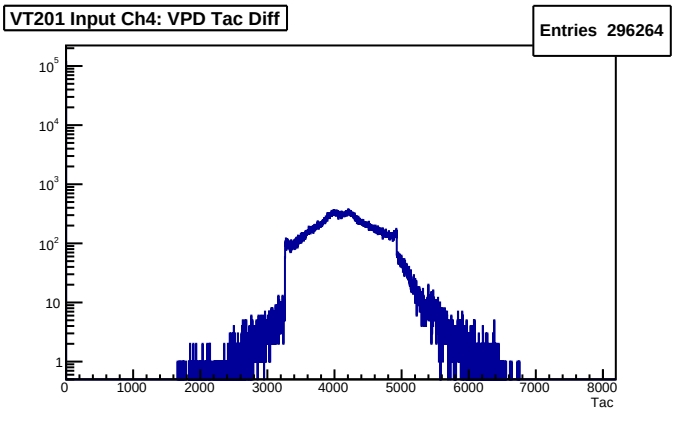

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

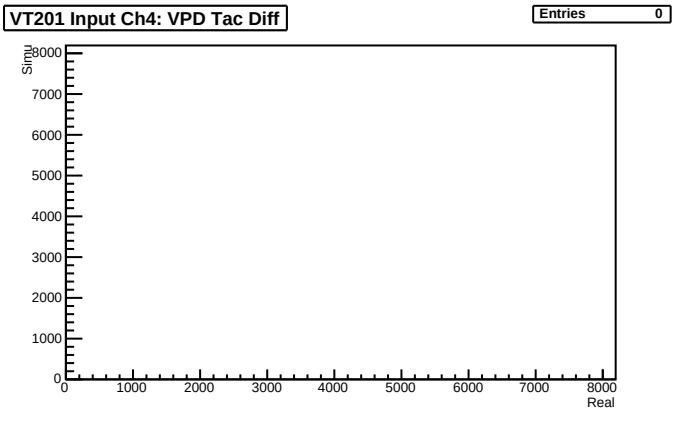

VT201 Input Ch2: ZDC Tac Diff
Entries 296264
Tac

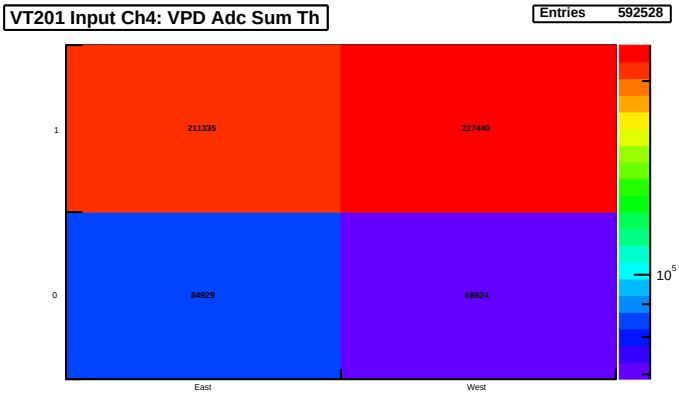

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

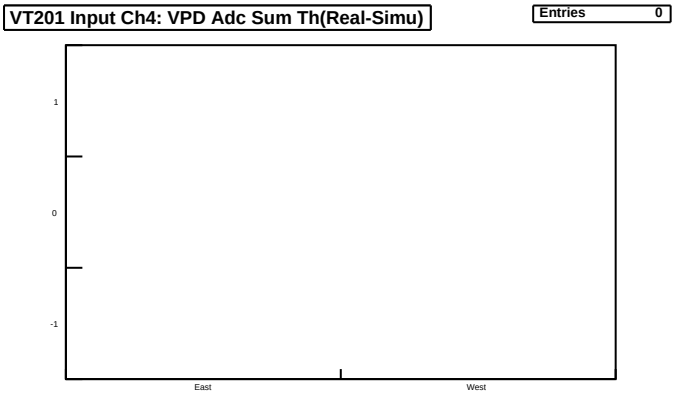

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2370112
9574
2393
13
11
9288
3743
57
44
286690
293871
296251
296253
286976
292521
296207
296220
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

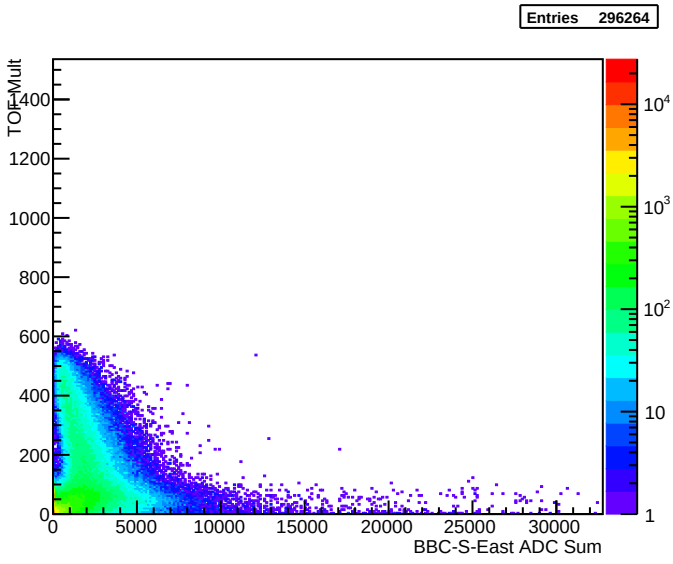

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

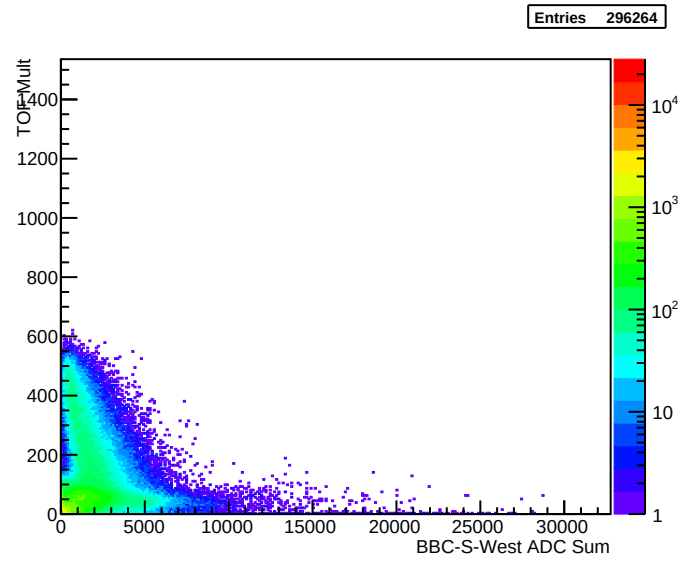

VT201 Input Ch4: VPD Tac Diff
Entries 296264
Tac

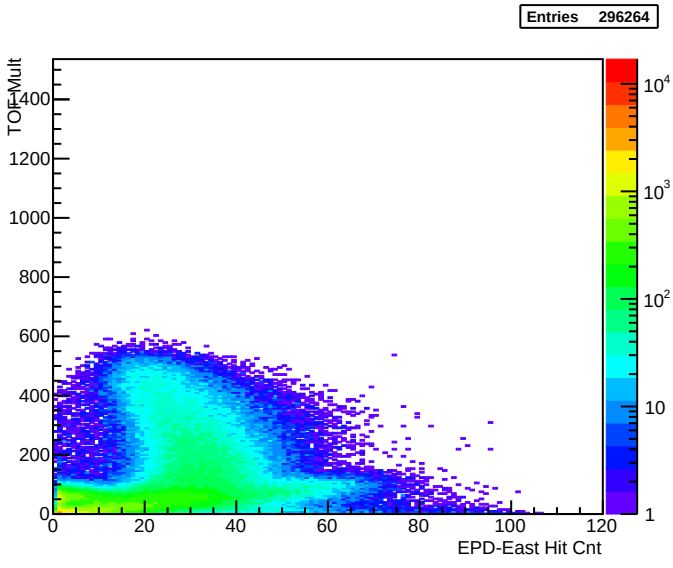

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

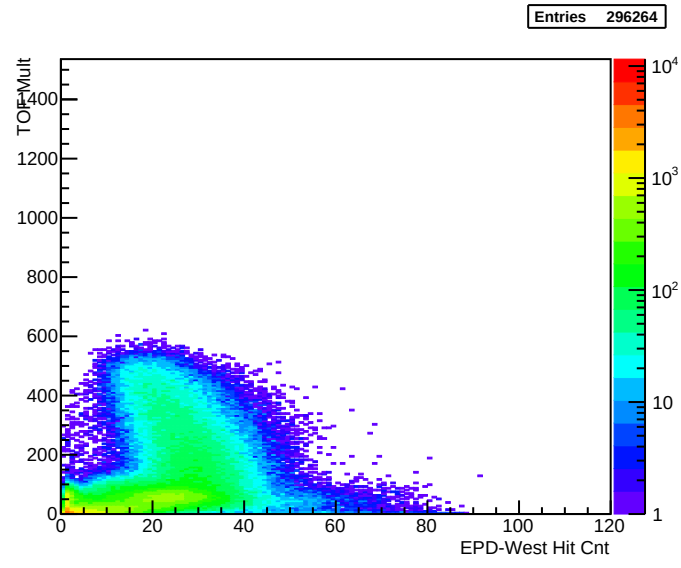

VT201 Input Ch4: VPD Adc Sum Th
Entries 592528
211335
227440
84929
68824
East
West

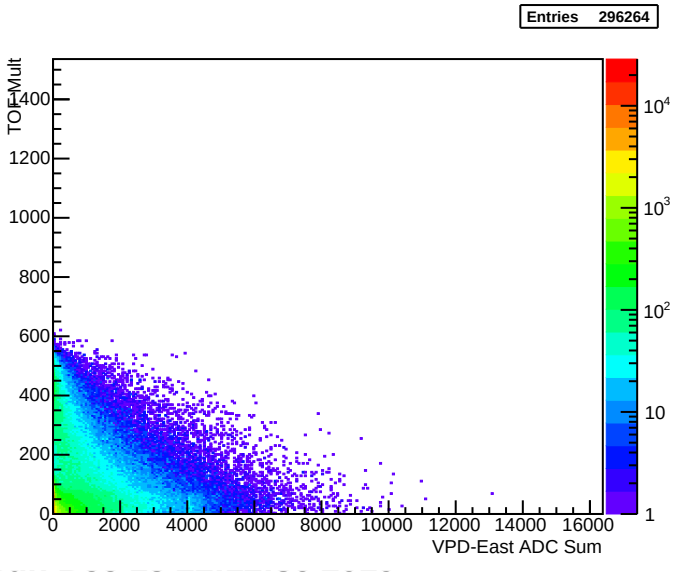

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

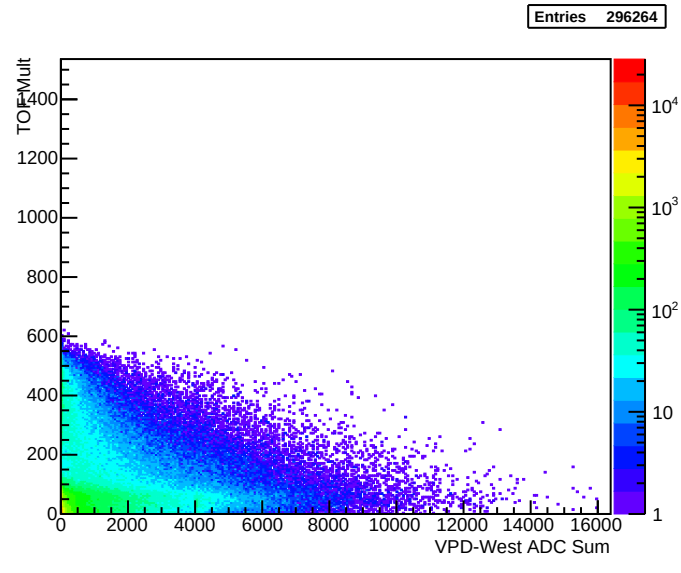

Entries 296264
TOF-Mult
BBC-S-East ADC Sum

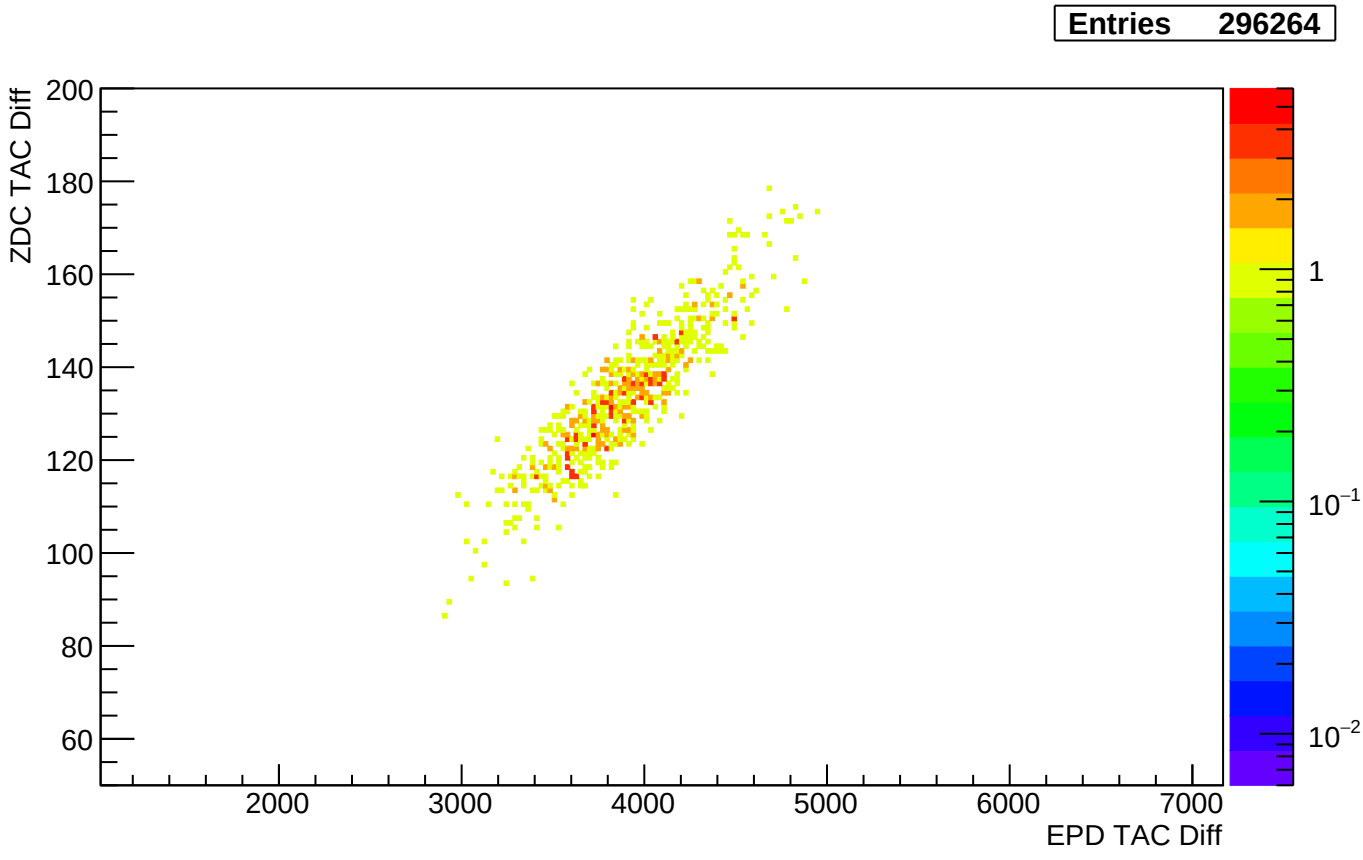

Entries 296264
TOF-Mult
BBC-S-West ADC Sum

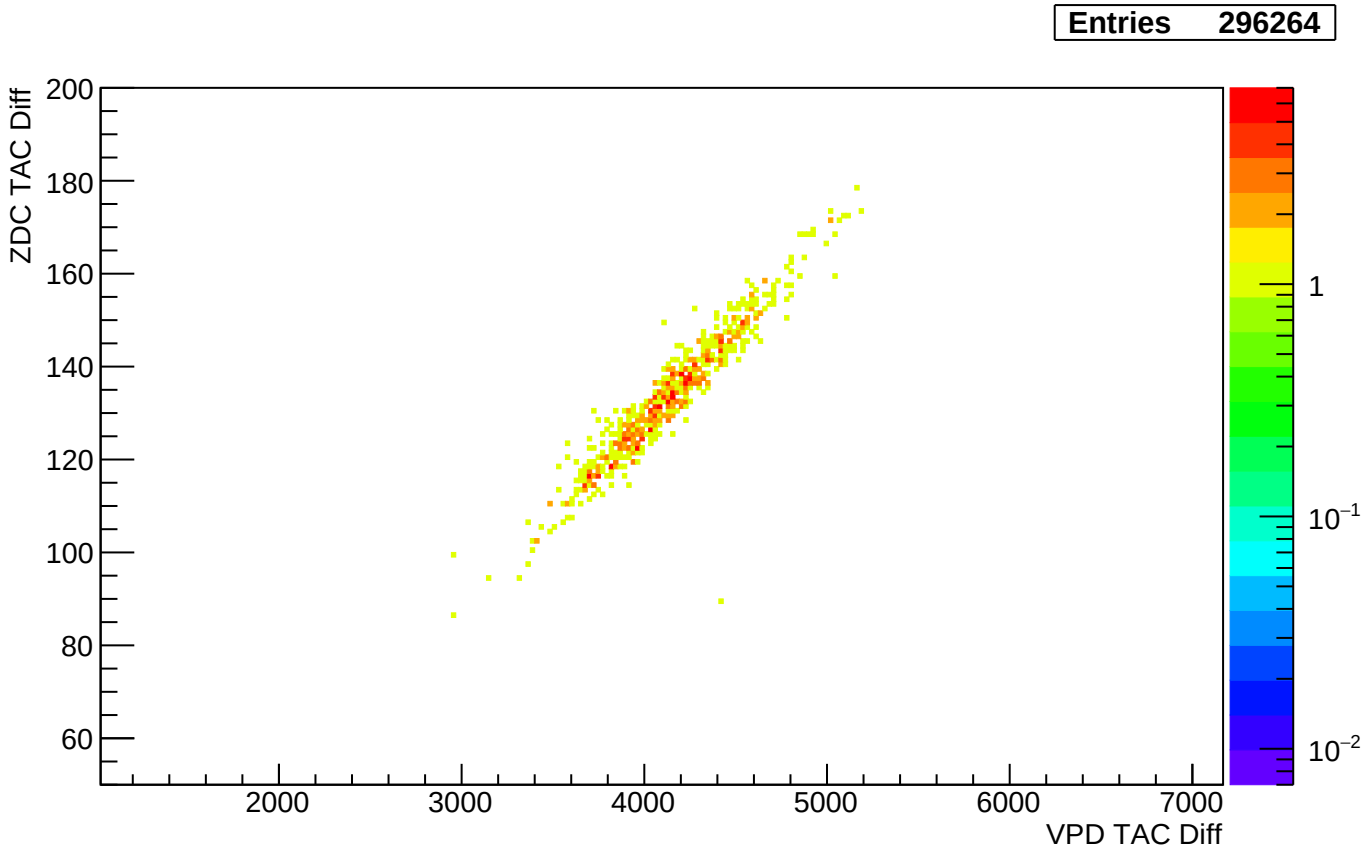

Entries 296264
TOF-Mult
EPD-East Hit Cnt

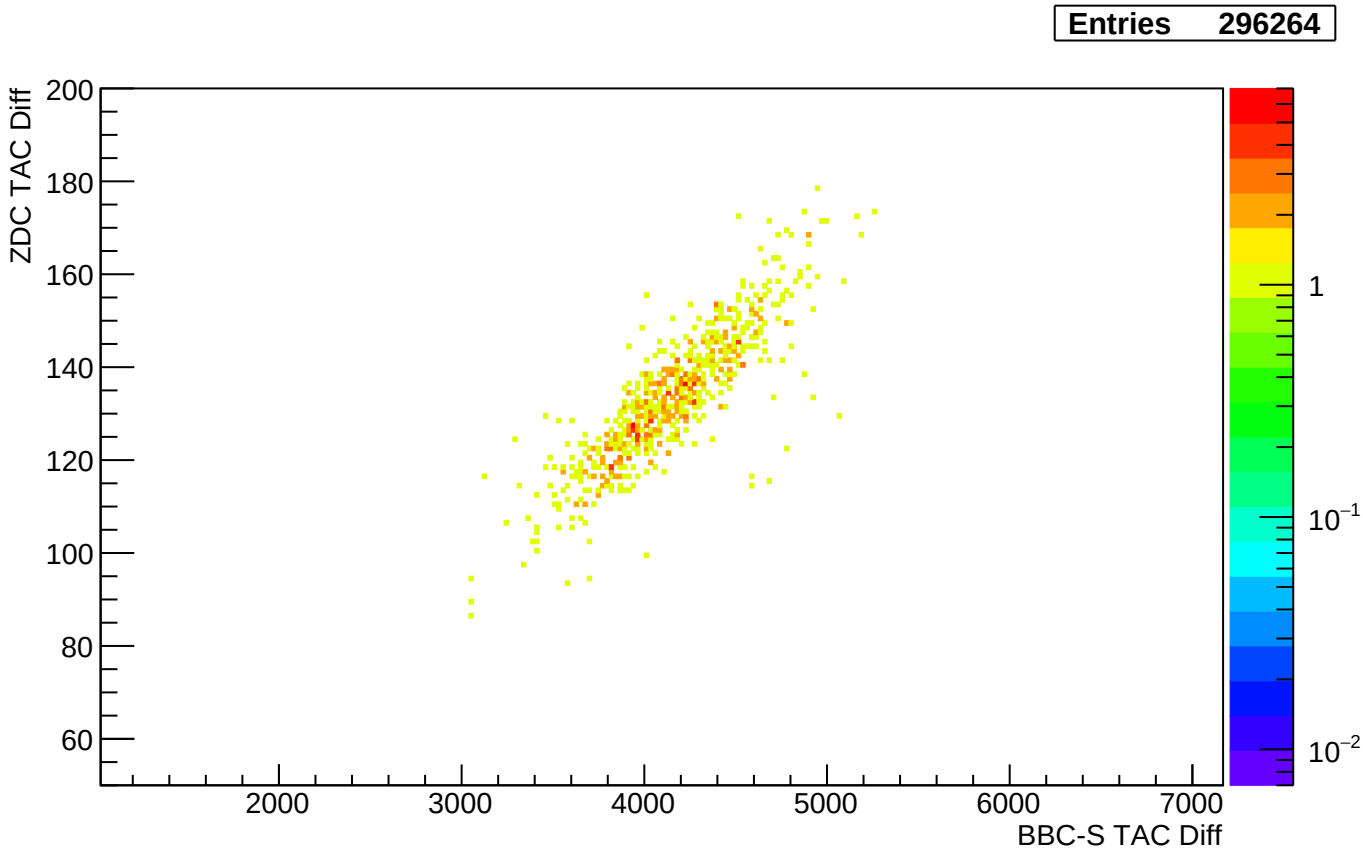

Entries 296264
TOF-Mult
EPD-West Hit Cnt

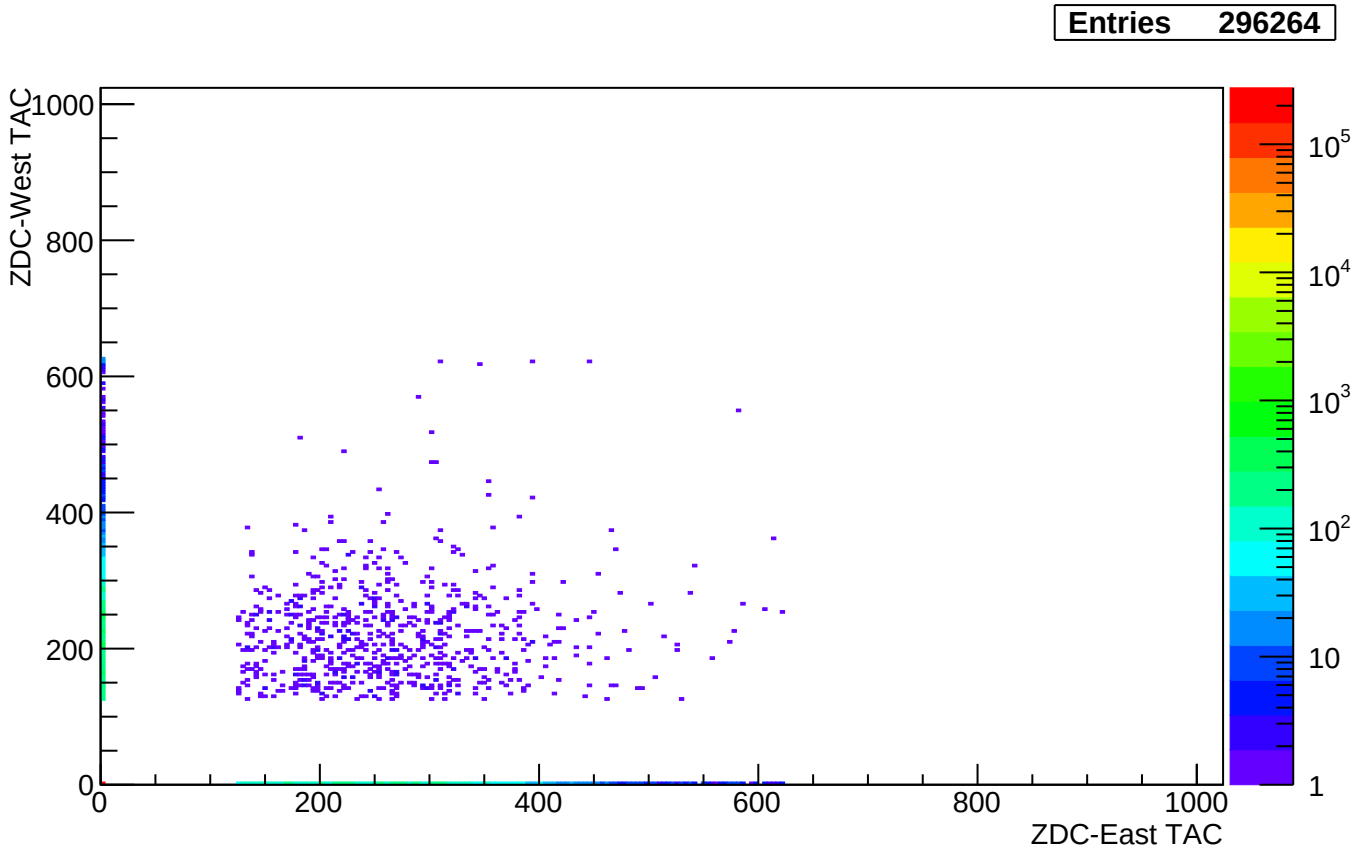

Entries 296264
TOF-Mult
VPD-East ADC Sum

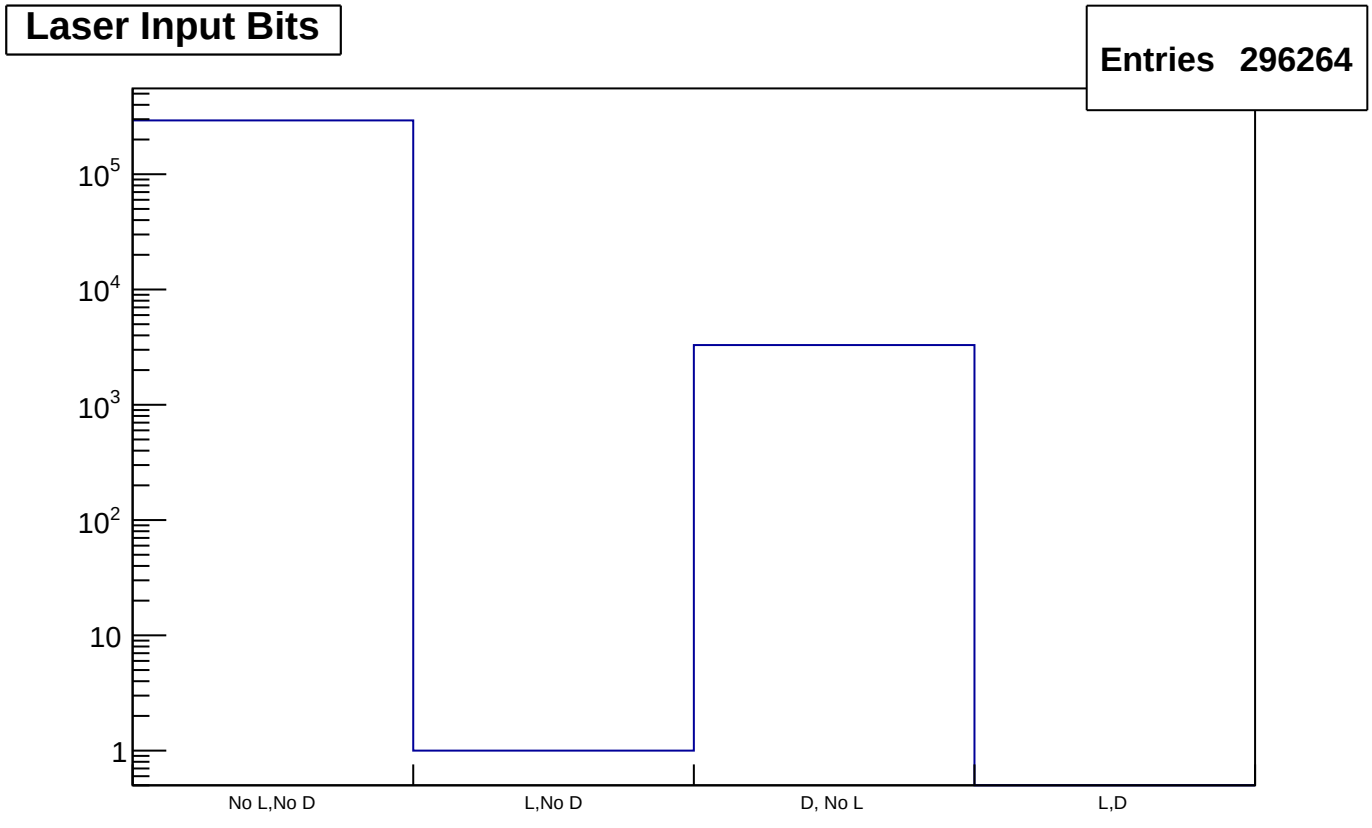

Entries 296264
TOF-Mult
VPD-West ADC Sum

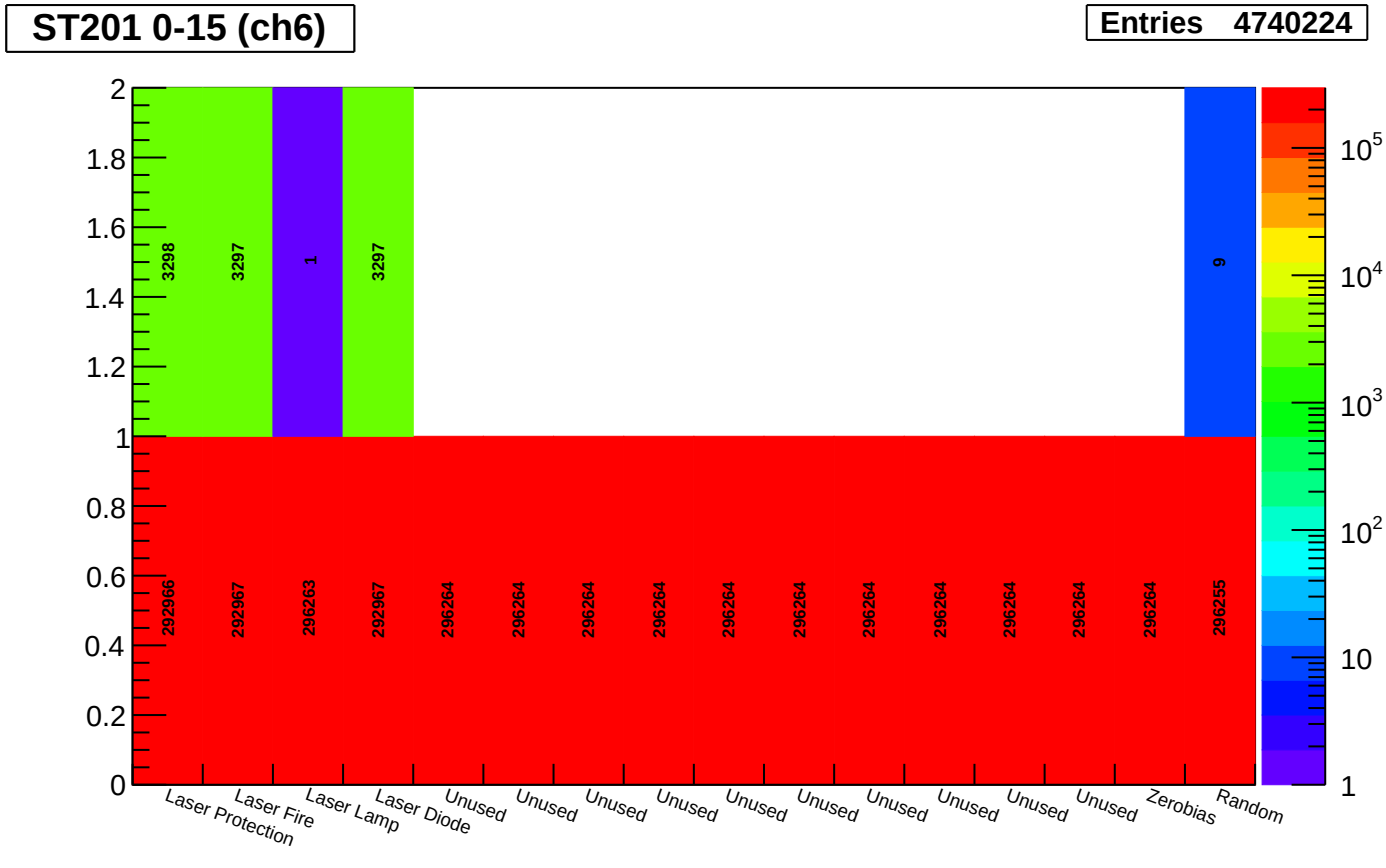

Entries 296264
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

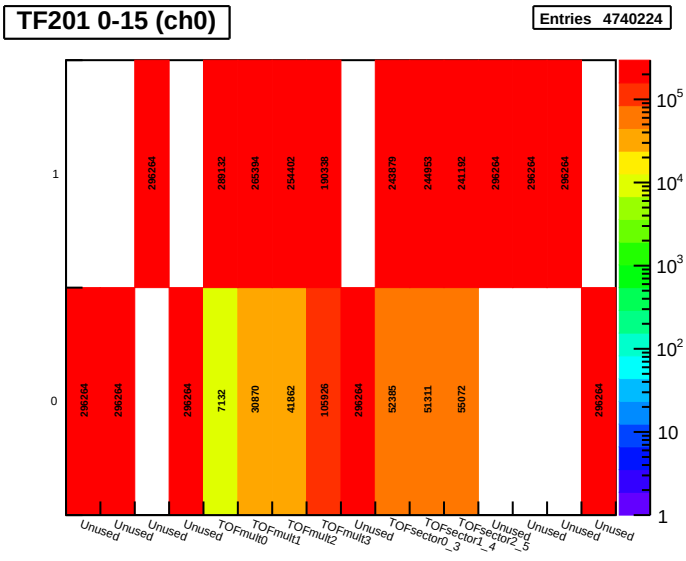

Entries 296264
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

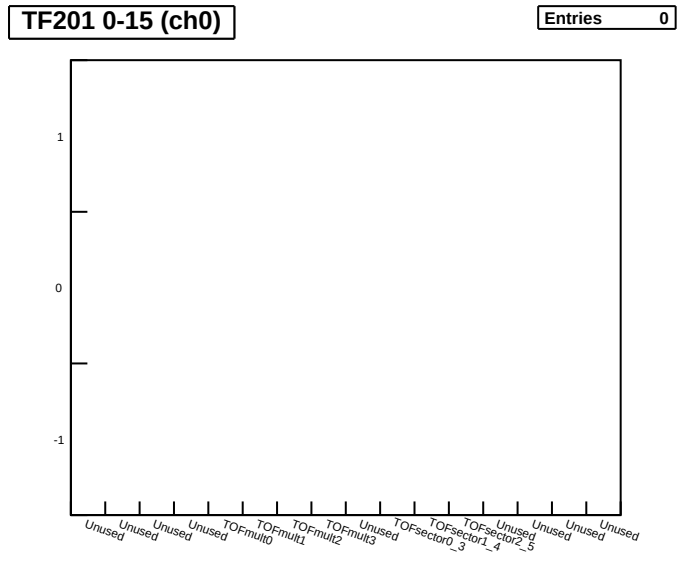

Entries 296264
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

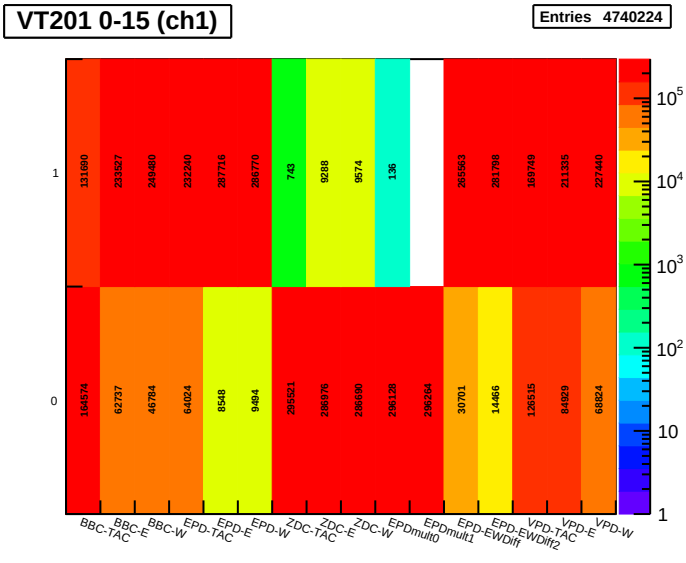

Entries 296264
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

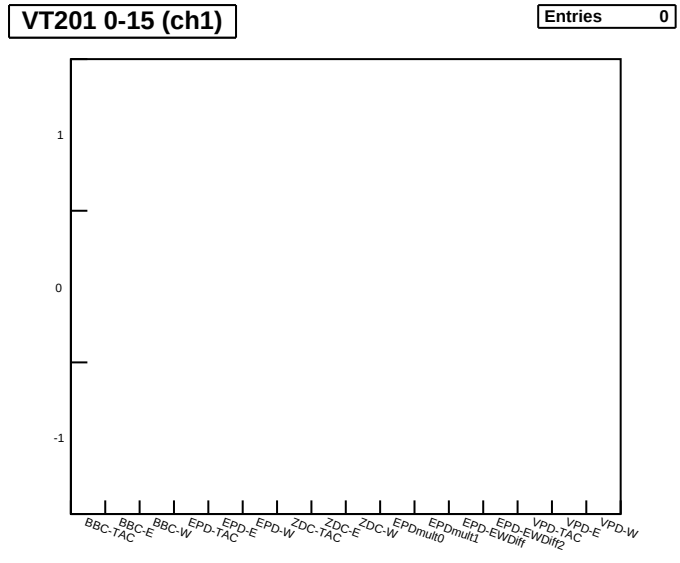

Laser Input Bits
Entries 296264
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

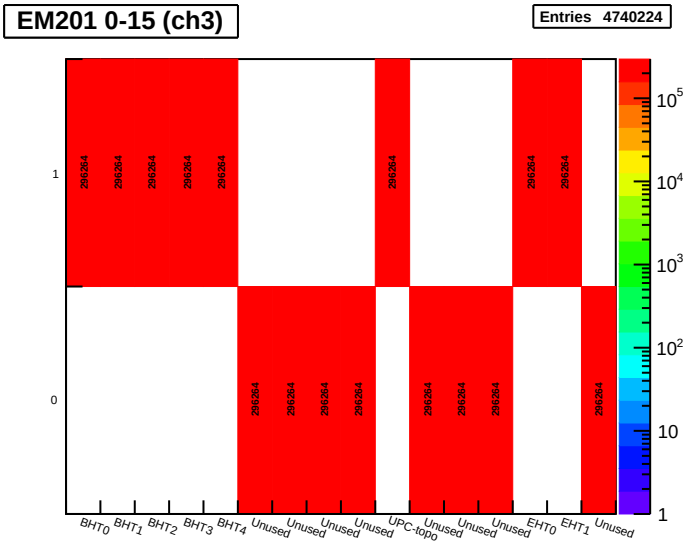

ST201 0-15 (ch6)
Entries 4740224
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3298
3297
1
3297
9
292966
292967
296263
292967
296264
296264
296264
296264
296264
296264
296264
296264
296264
296264
296264
296255
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

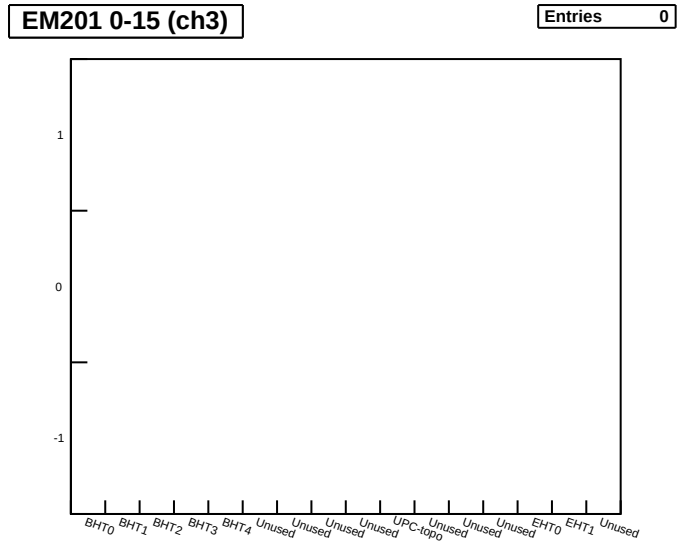

TF201 0-15 (ch0)
Entries 4740224
1
0
296264 289132 265394 254402 190338 243879 244953 241192 296264 296264 296264
296264 296264 296264 7132 30870 41862 105926 296264 52385 51311 55072 296264
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 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 Unused


VT201 0-15 (ch1)
Entries 4740224
1
0
131690 23527 249480 232240 287716 286770 743 9288 9574 136 265563 281798 169749 211335 227440
164574 62737 46784 64024 8548 9484 295521 288976 286690 296128 296264 30701 14466 126515 84929 68824
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 4740224
1
0
296264 296264 296264 296264 296264 296264 296264 296264
296264 296264 296264 296264 296264 296264 296264 296264
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