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0000

test

Figure 1: 0000 plot of c1 variables using cut: “test”

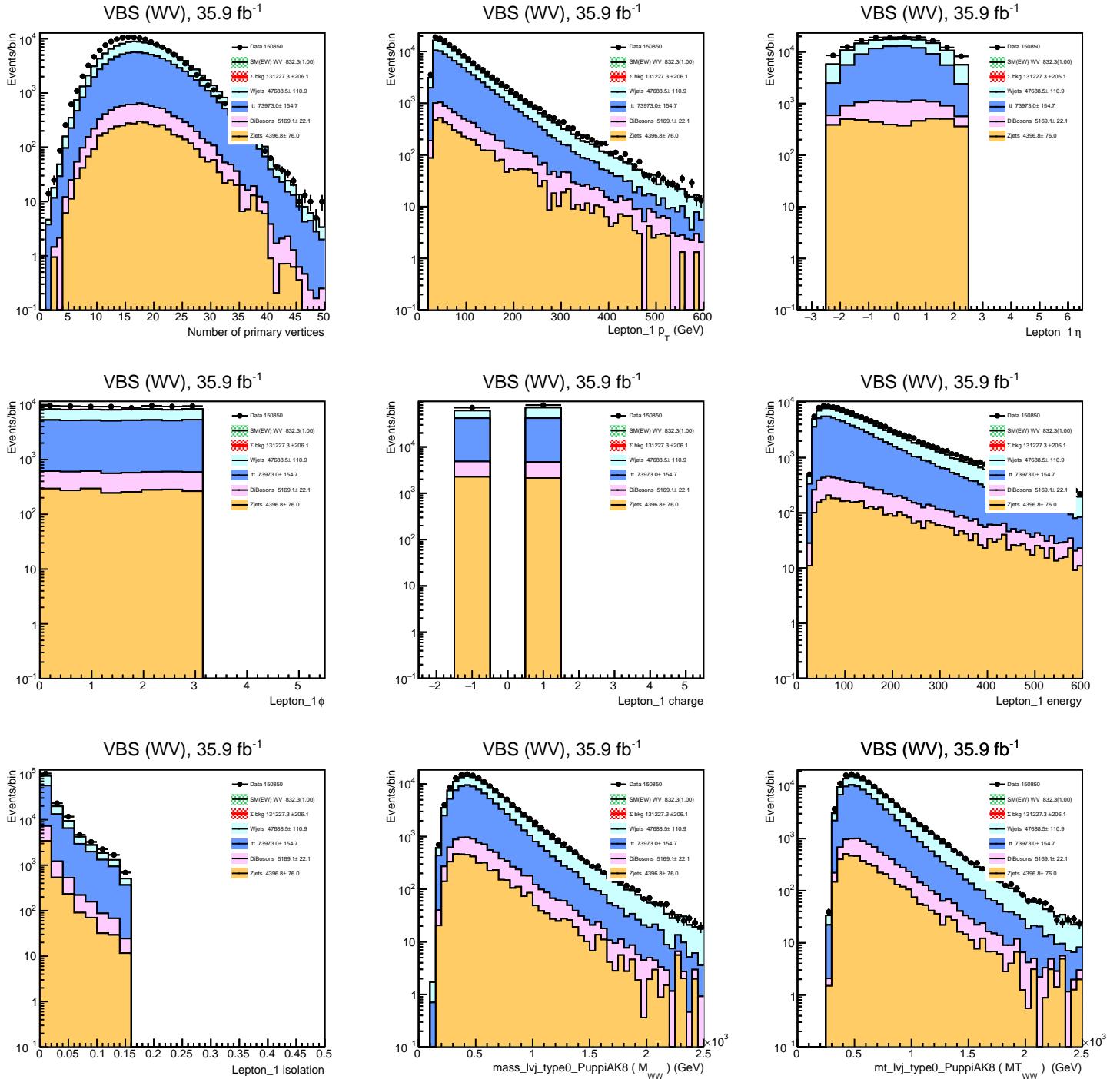


Figure 2: 0000 plot of c2 variables using cut: “test”

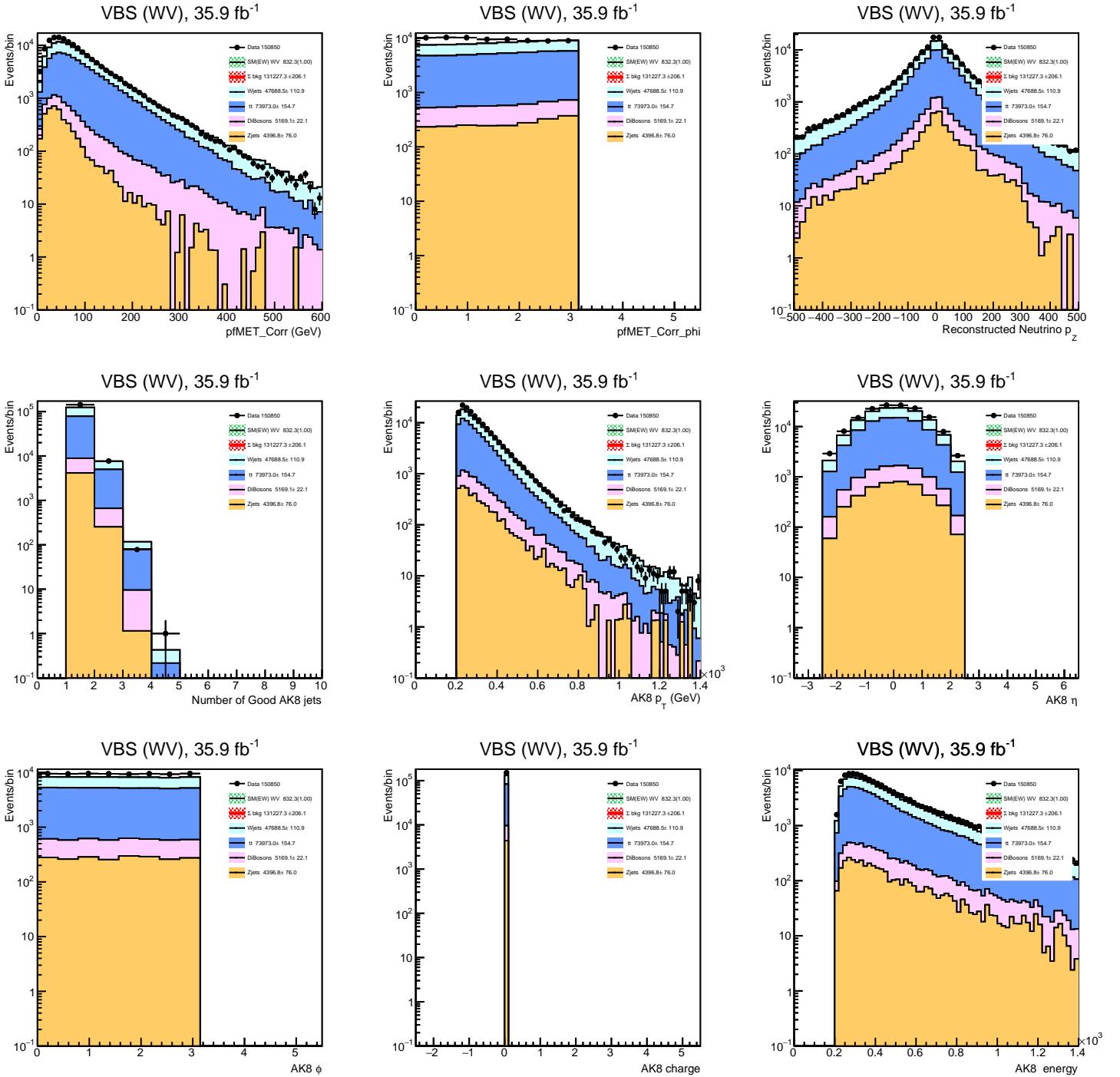
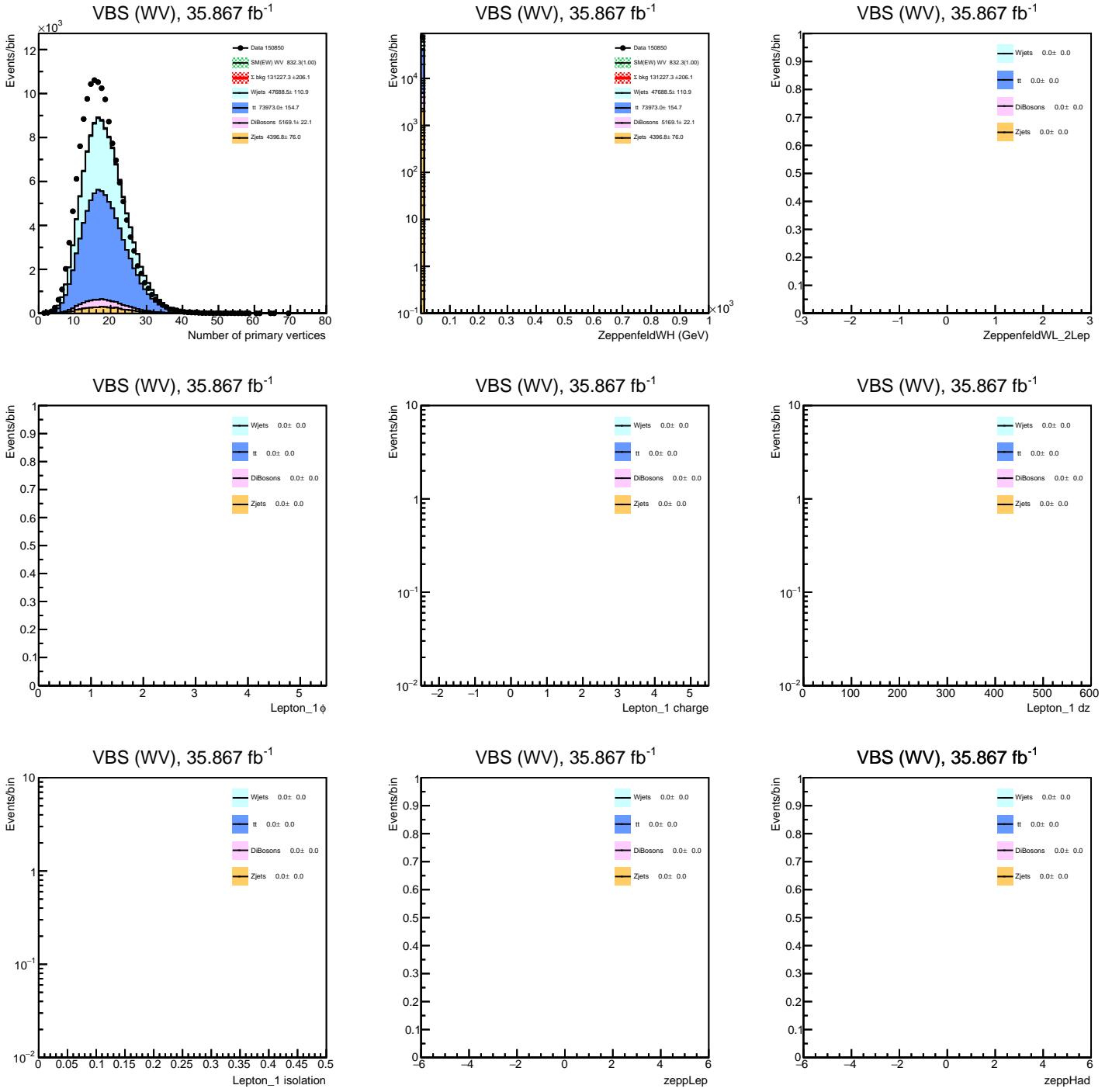


Figure 3: 0000 plot of c3 variables using cut: “test”



2016

## Full\_DNNMLPBDT\_SR

Figure 4: 2016 plot of c1 variables using cut: “Full\_DNNMLPBDT\_SR”

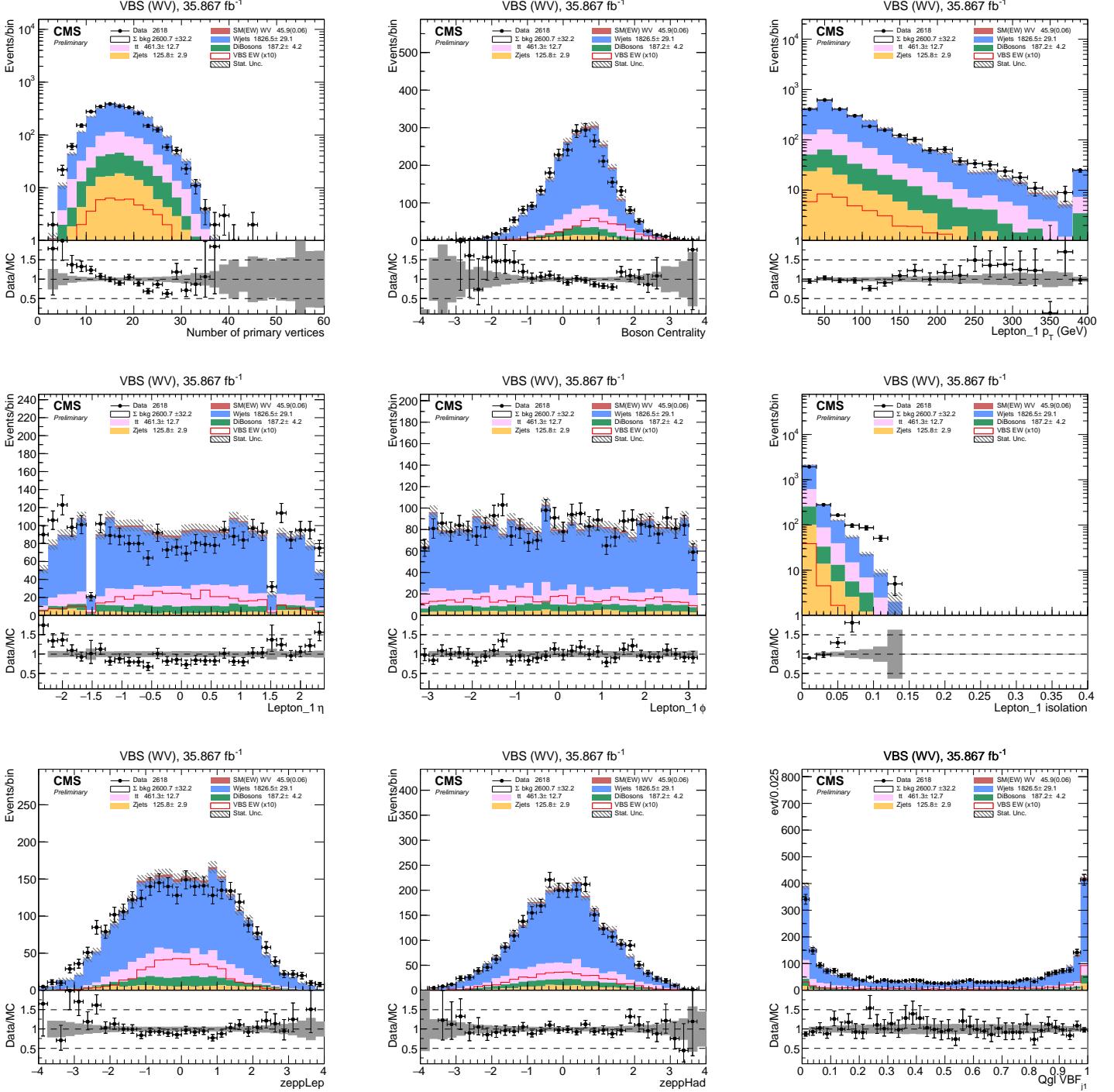


Figure 5: 2016 plot of c2 variables using cut: “Full\_DNNMLPBDT\_SR”

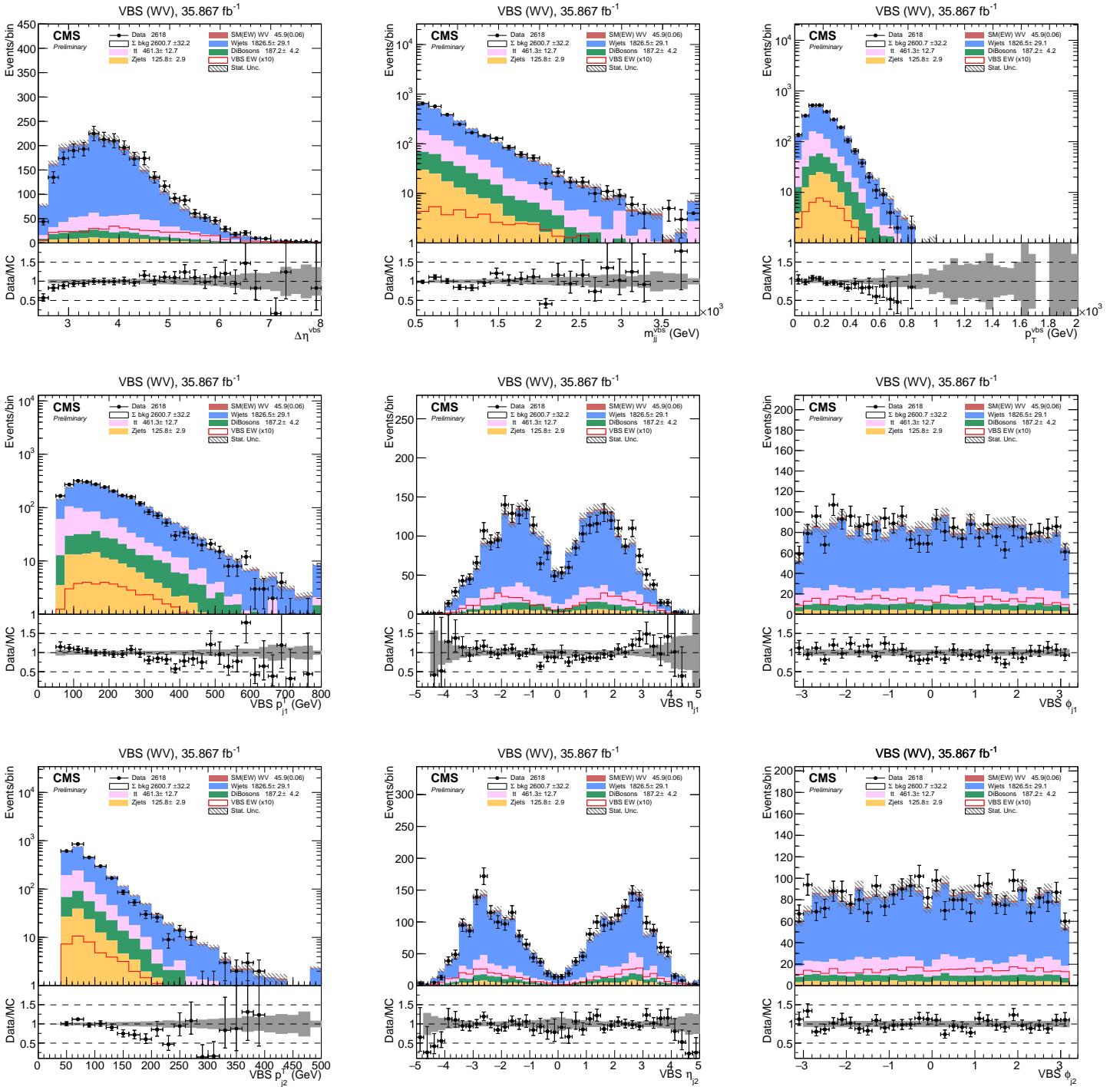


Figure 6: 2016 plot of c3 variables using cut: “Full\_DNNMLPBDT\_SR”

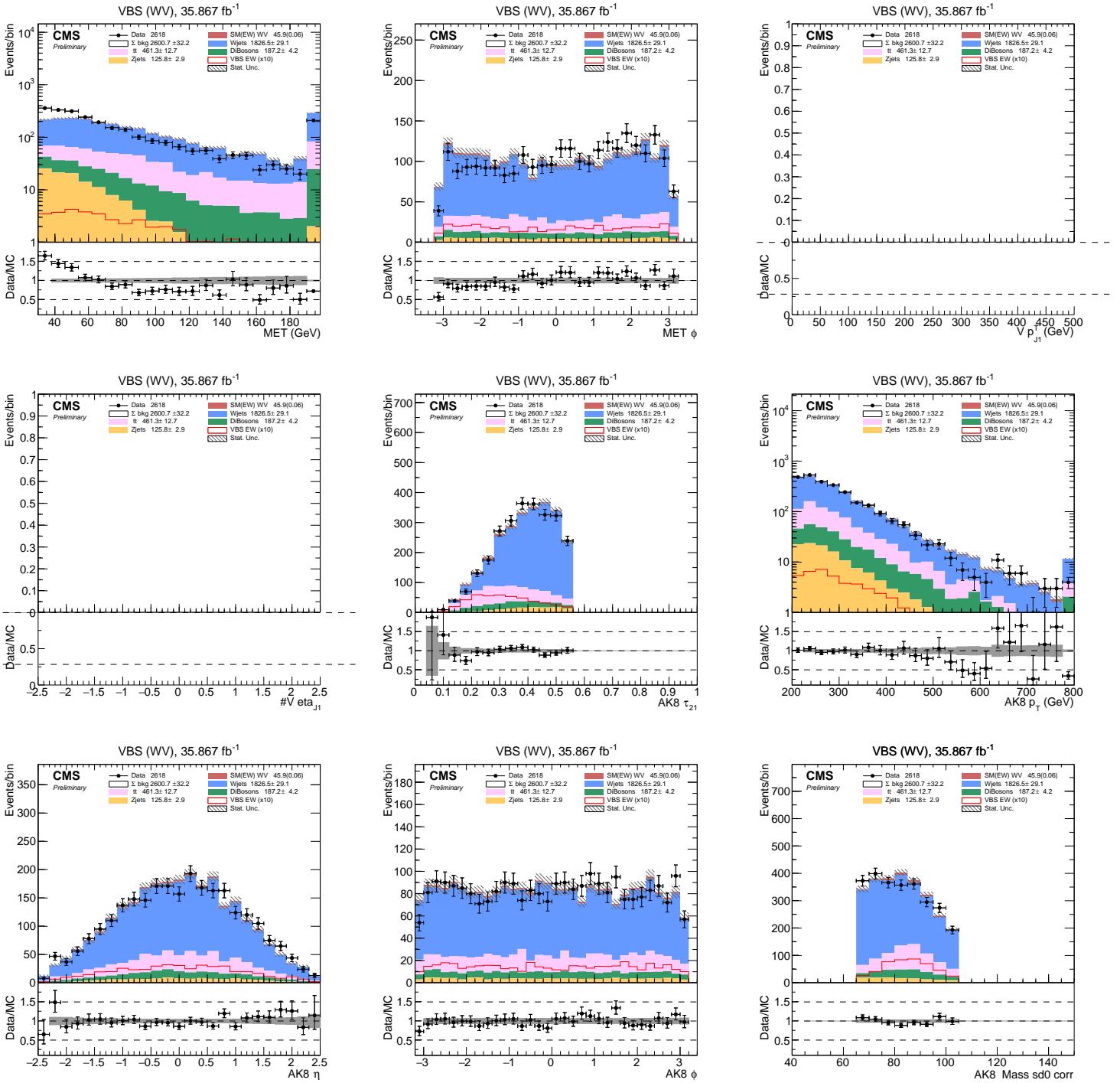
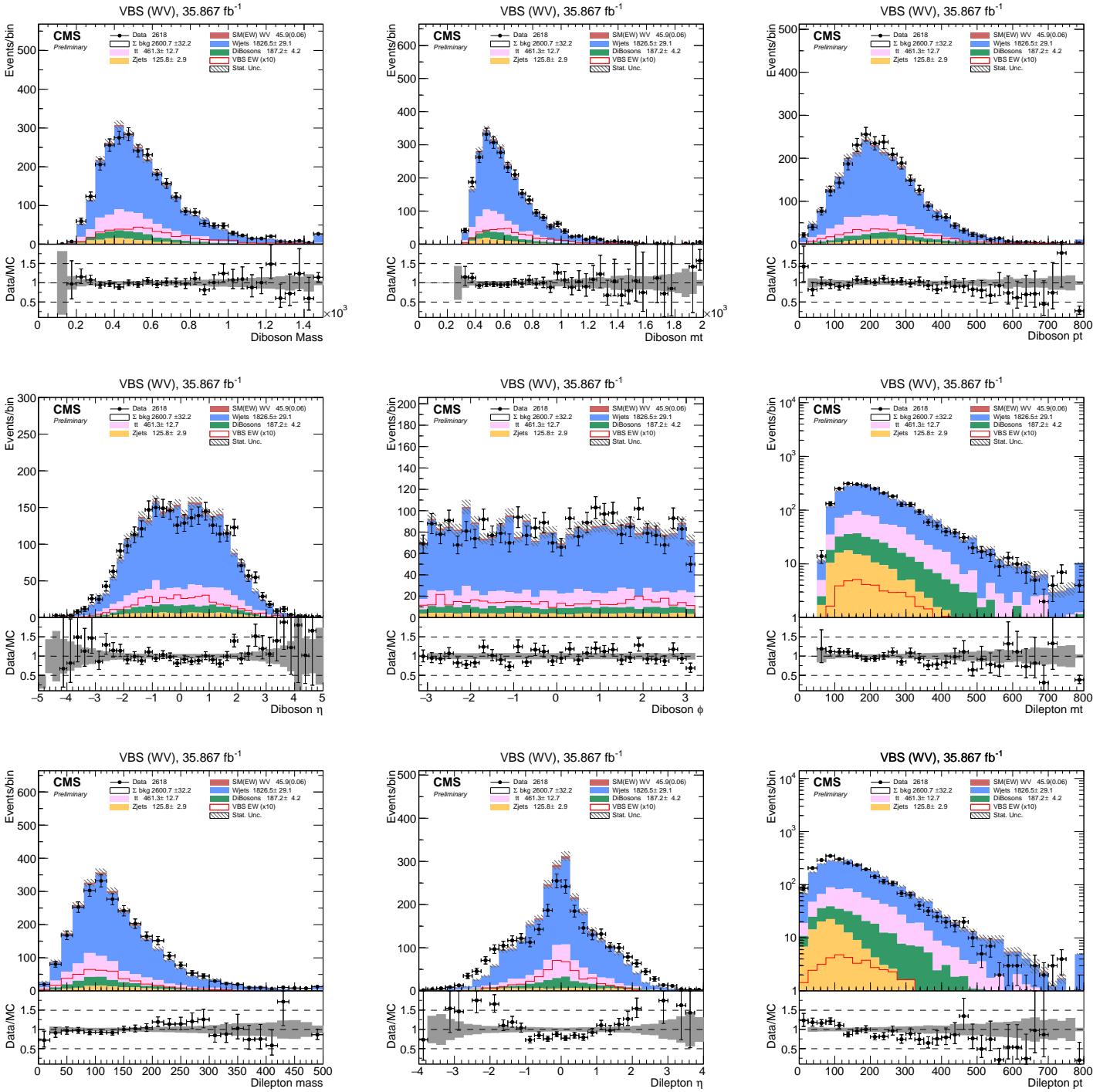


Figure 7: 2016 plot of c4 variables using cut: “Full\_DNNMLPBDT\_SR”



## Full\_SR

Figure 8: 2016 plot of c1 variables using cut: “Full\_SR”

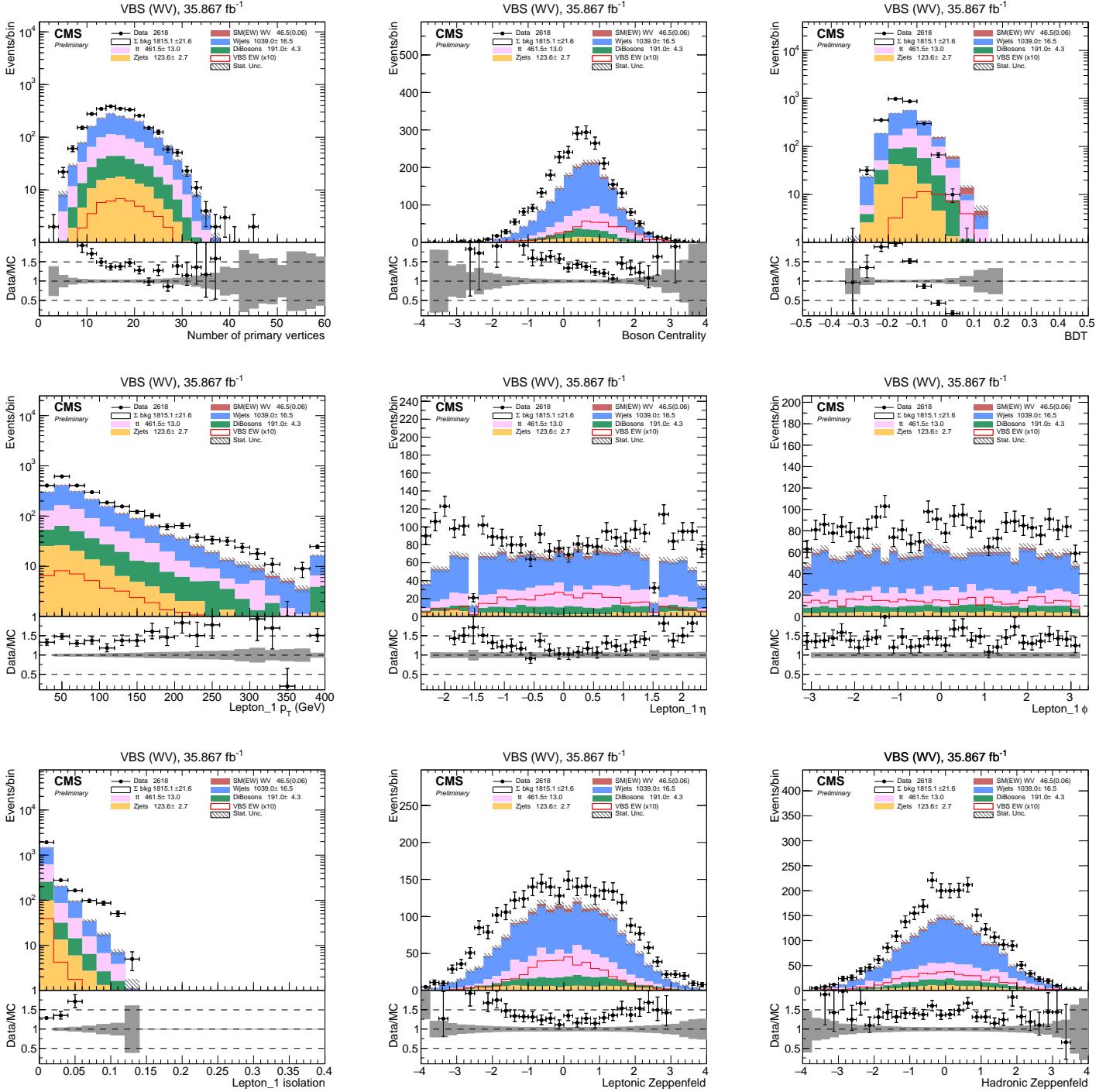


Figure 9: 2016 plot of c2 variables using cut: “Full\_SR”

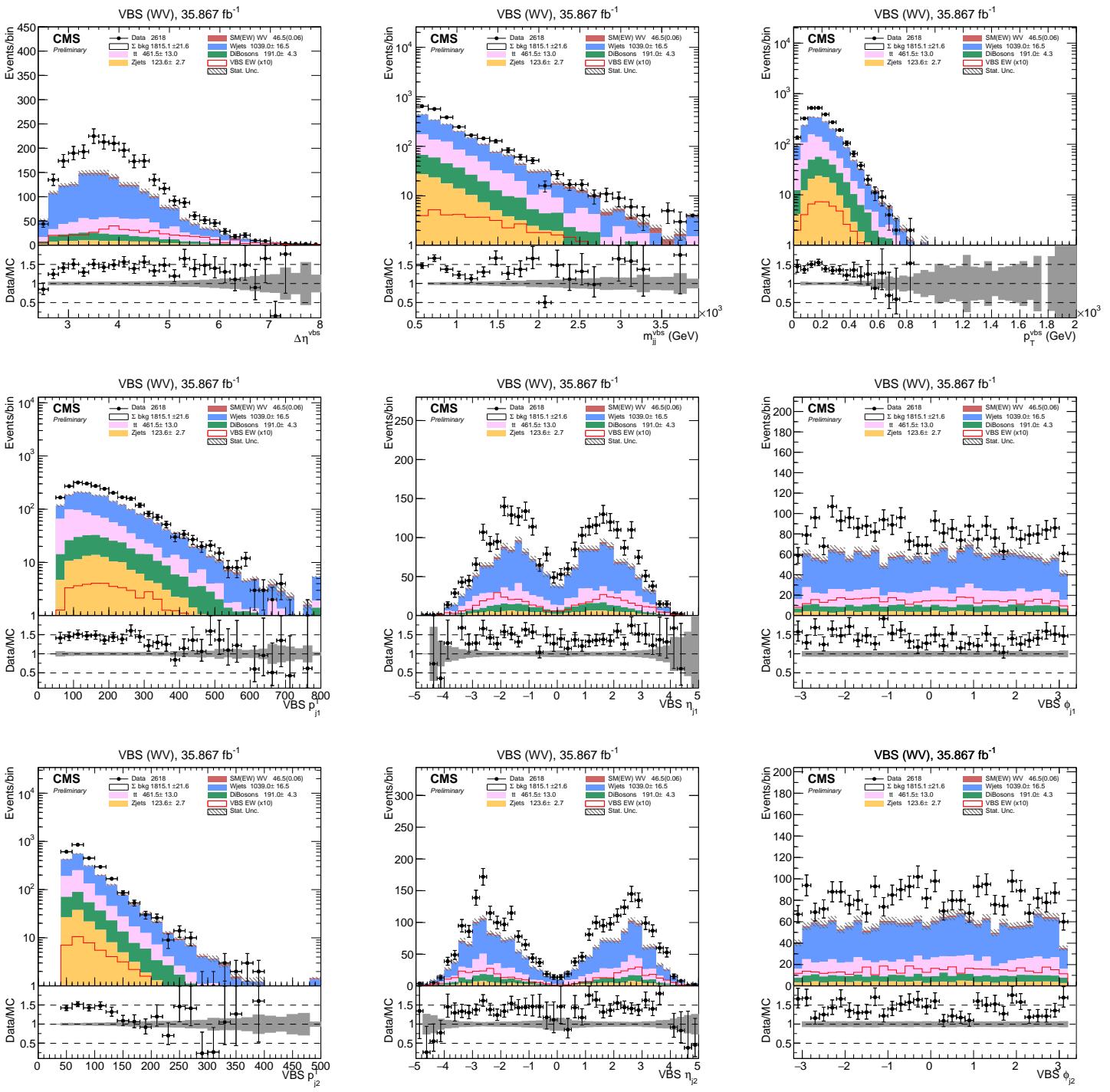


Figure 10: 2016 plot of c3 variables using cut: “Full\_SR”

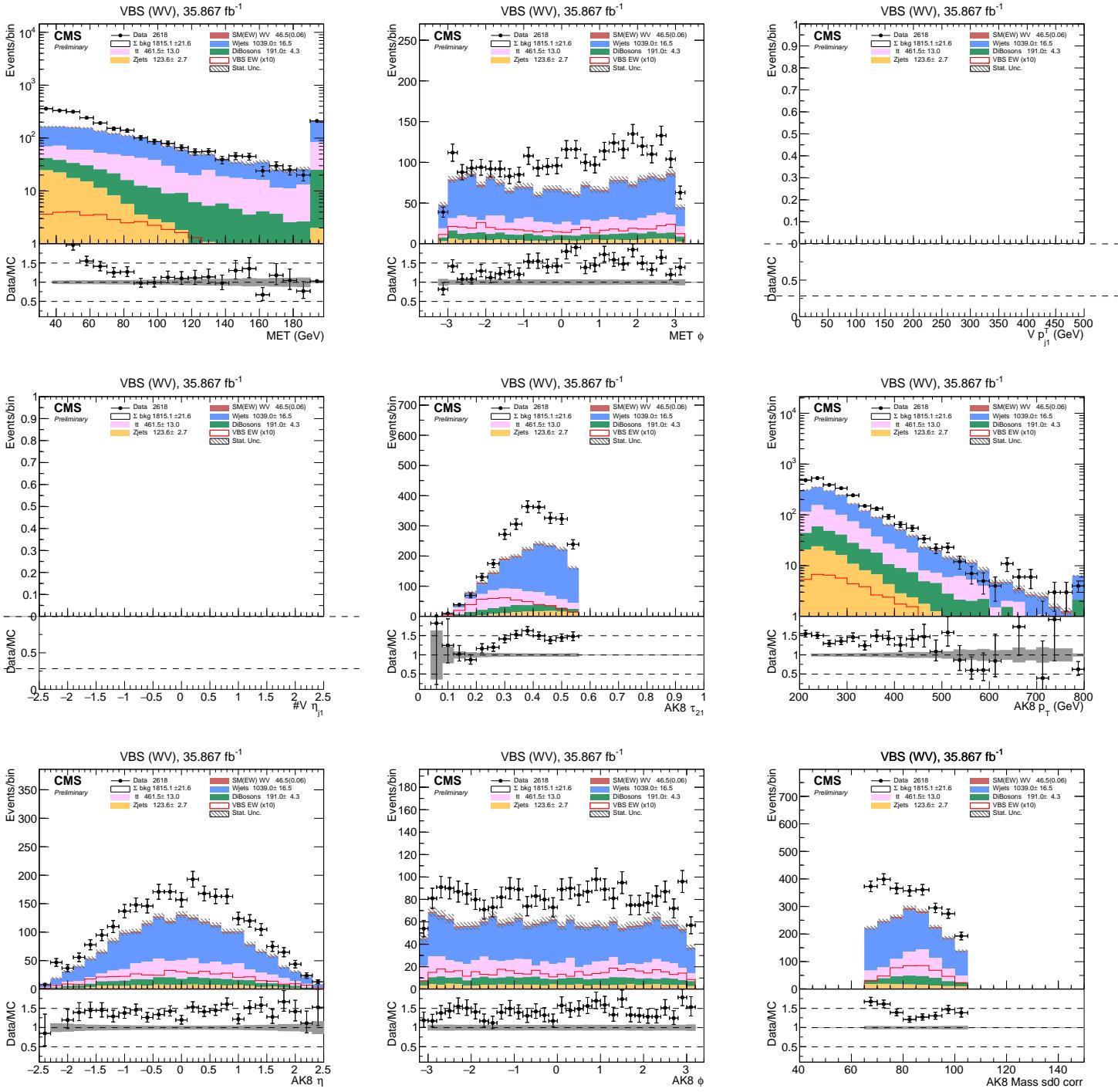
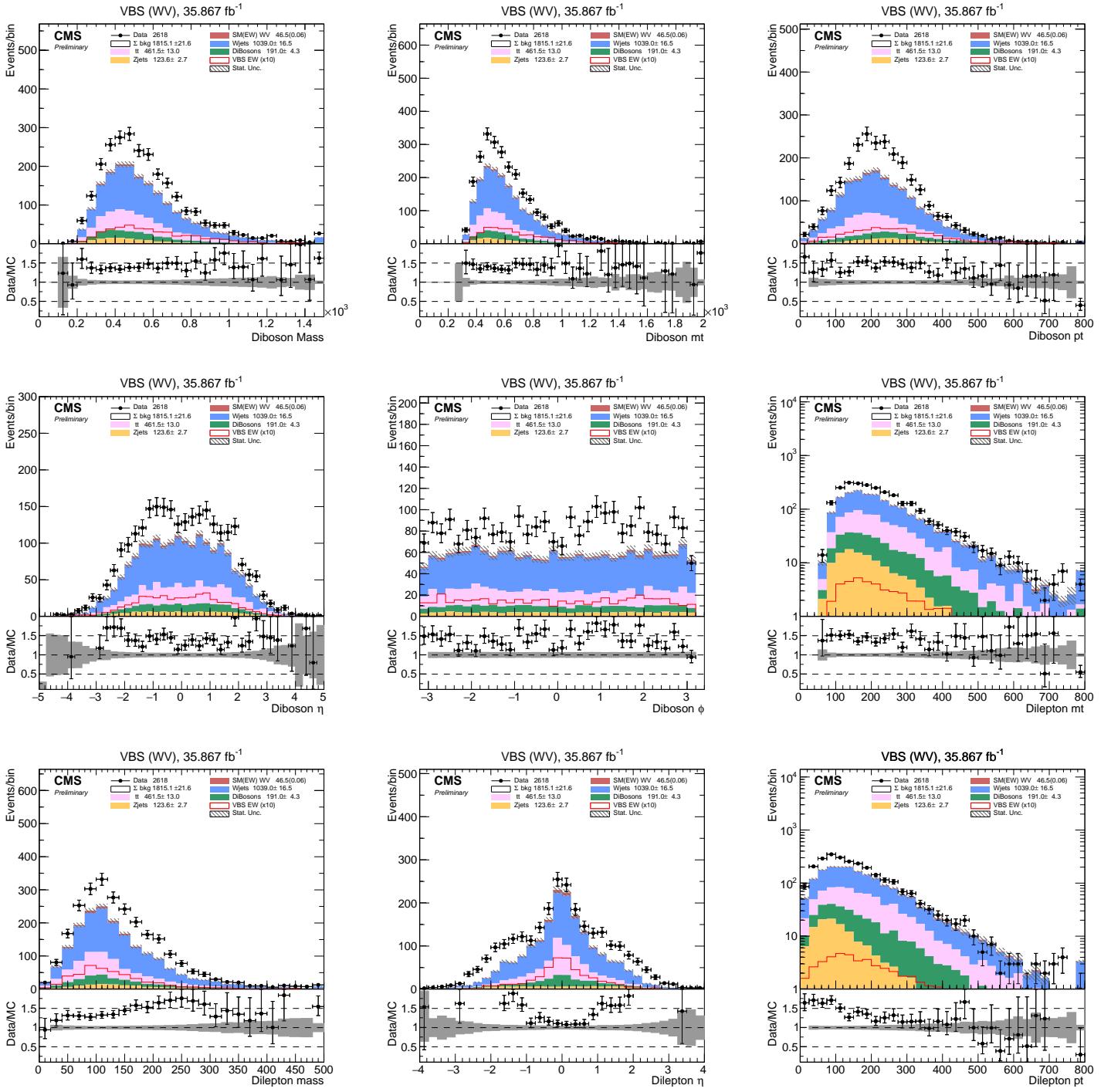


Figure 11: 2016 plot of c4 variables using cut: “Full\_SR”



# Full\_SRtest

Figure 12: 2016 plot of c1 variables using cut: “Full\_SRtest”

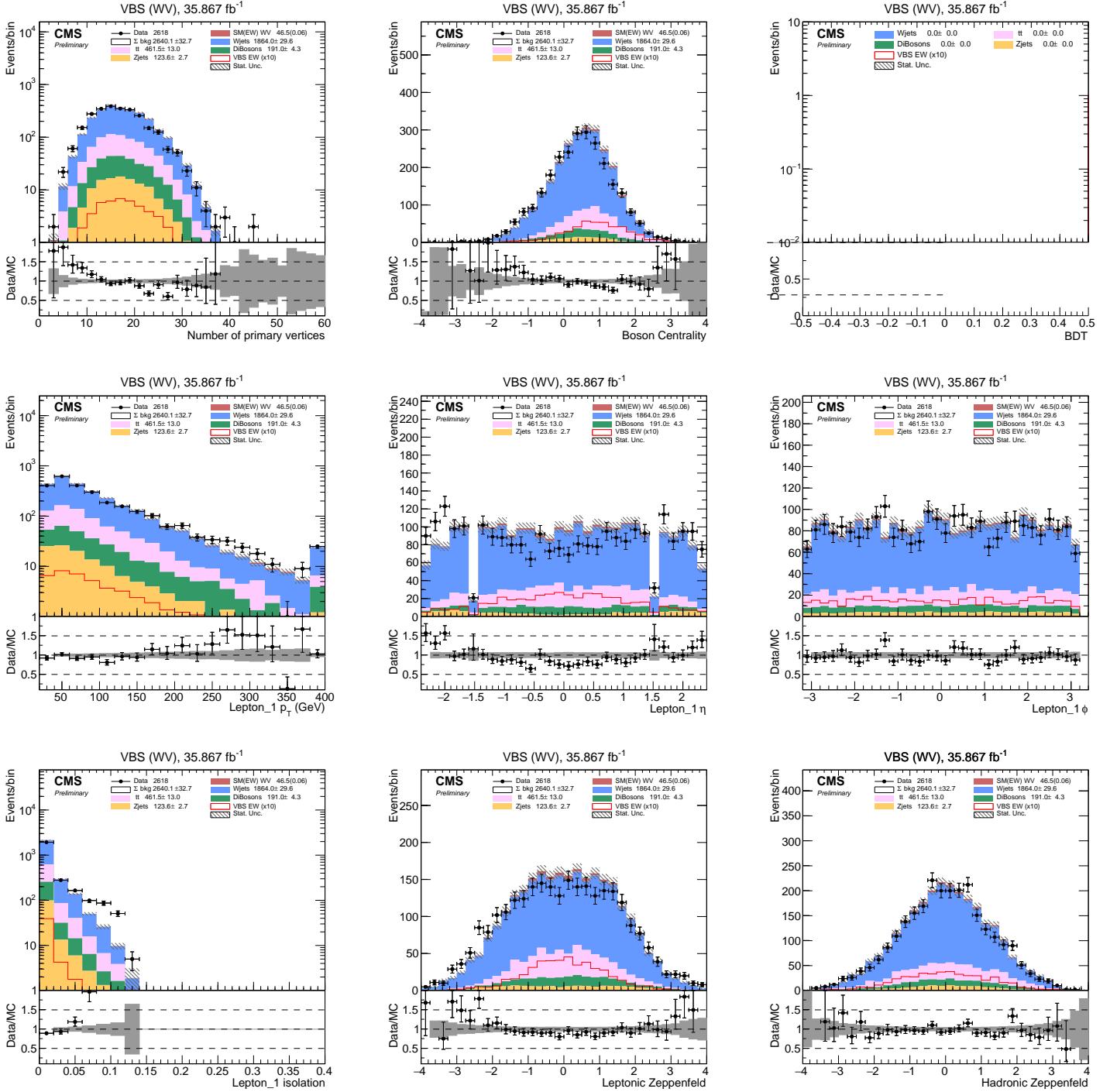


Figure 13: 2016 plot of c2 variables using cut: “Full\_SRtest”

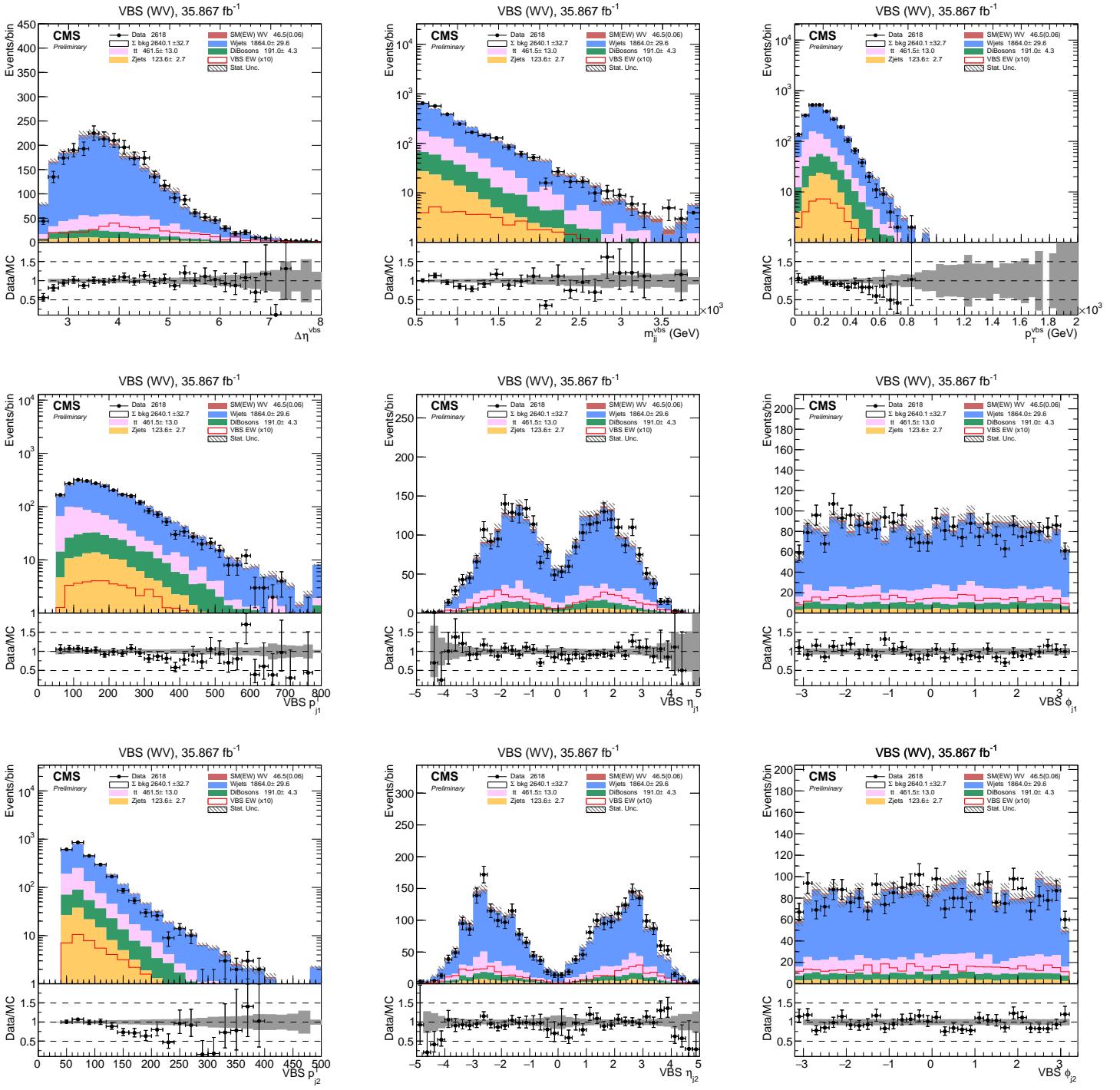


Figure 14: 2016 plot of c3 variables using cut: “Full\_SRtest”

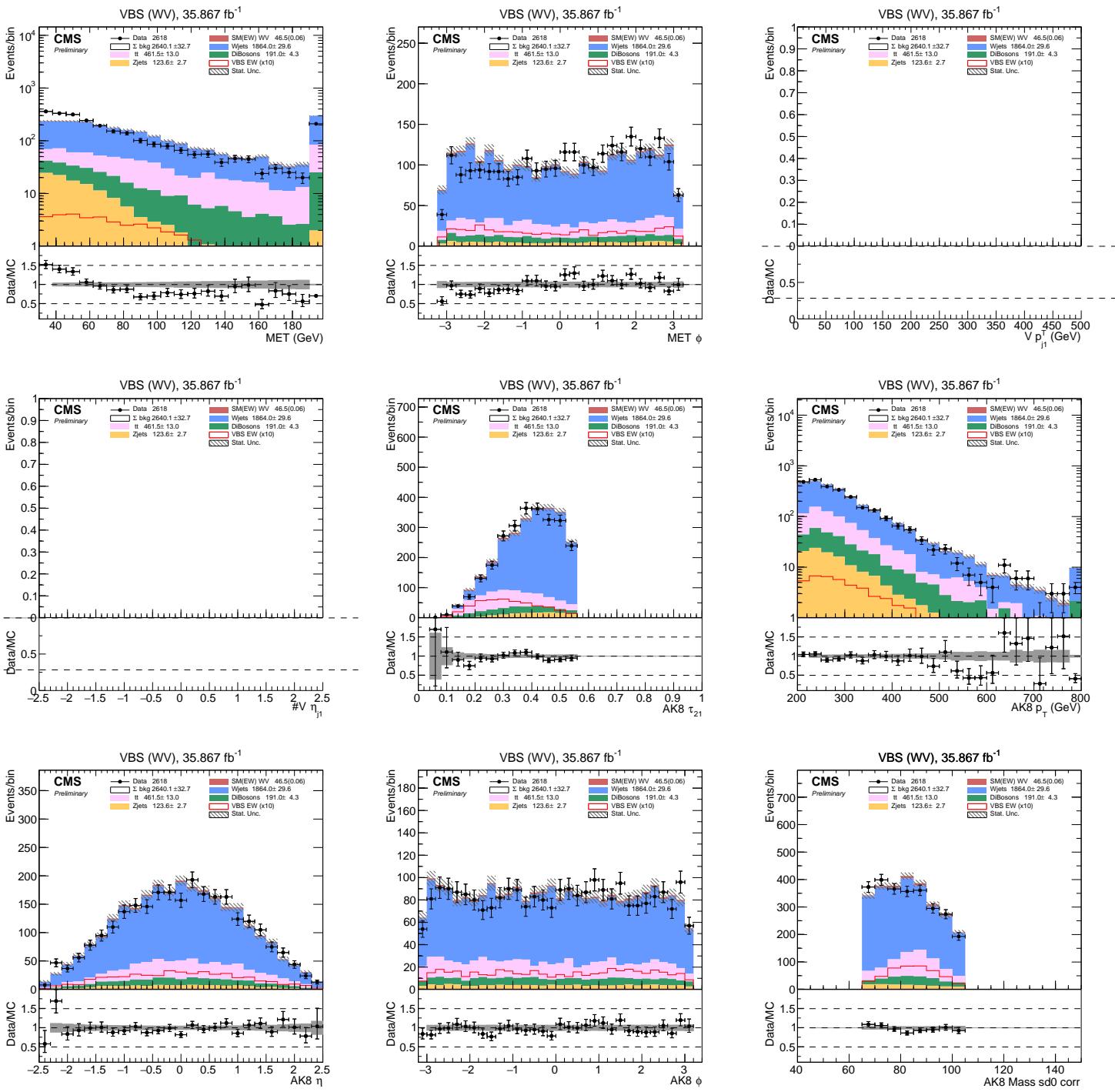
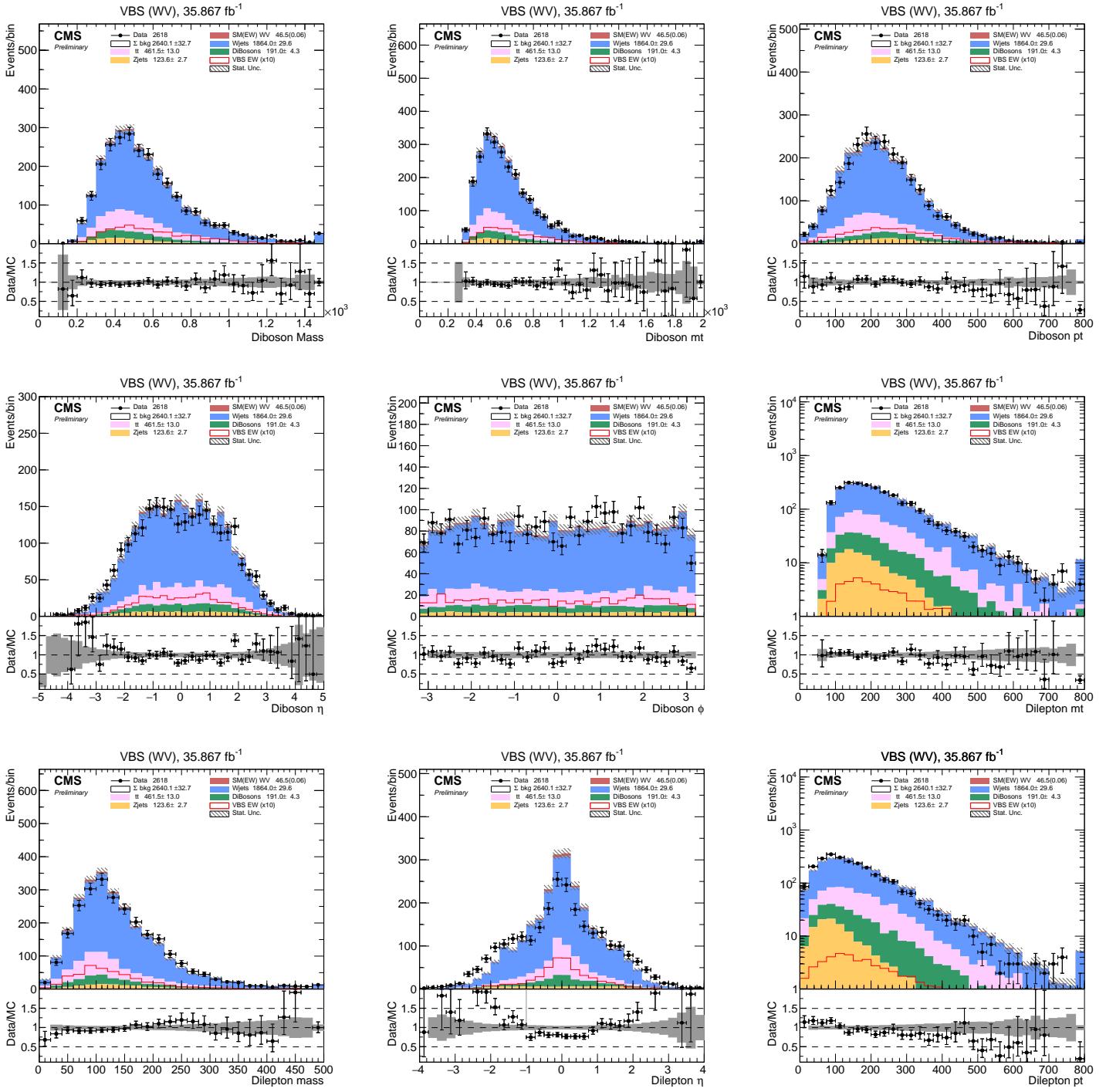


Figure 15: 2016 plot of c4 variables using cut: “Full\_SRtest”



# Top\_CR

Figure 16: 2016 plot of c1 variables using cut: “Top\_CR”

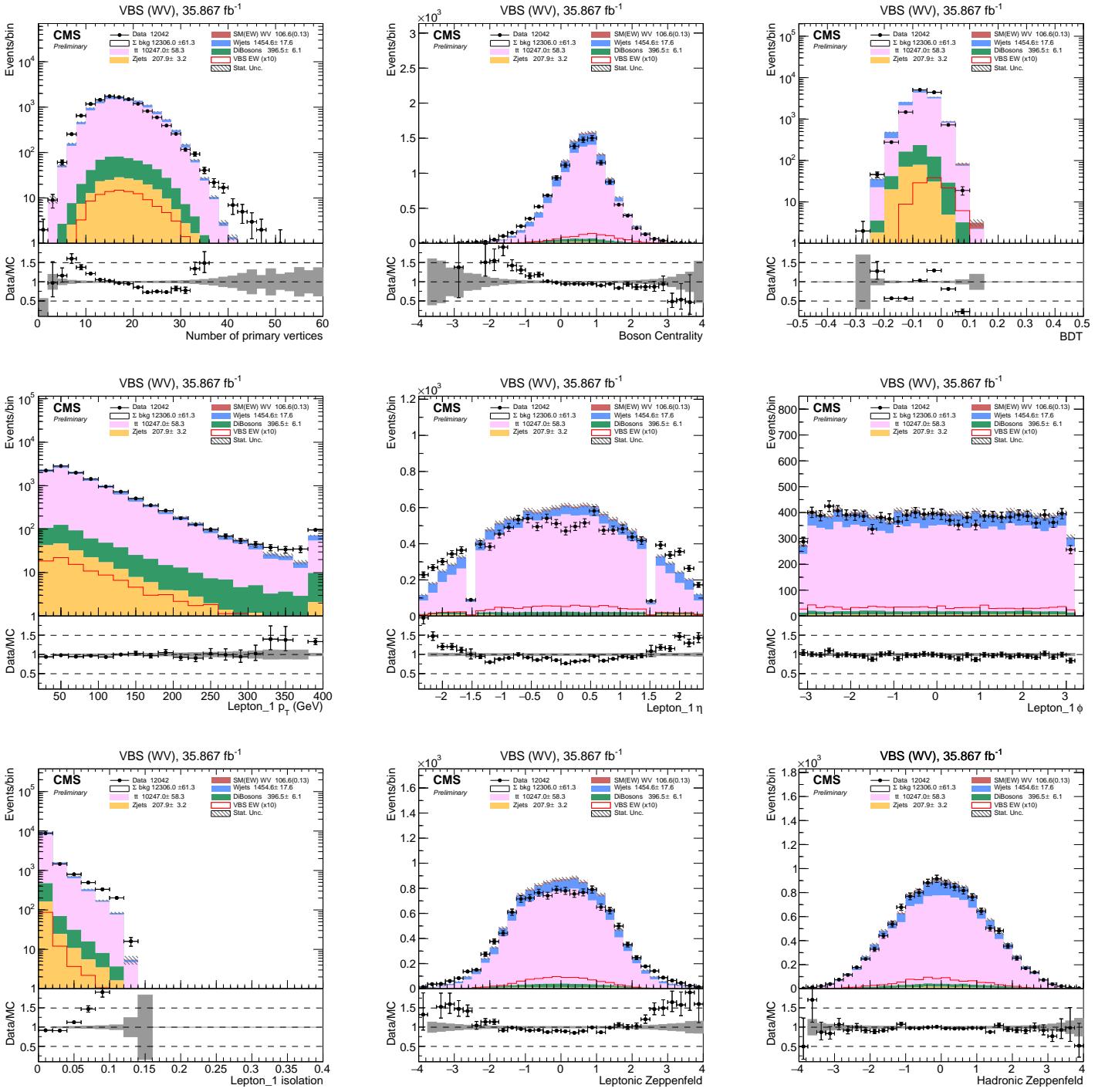


Figure 17: 2016 plot of c2 variables using cut: “Top\_CR”

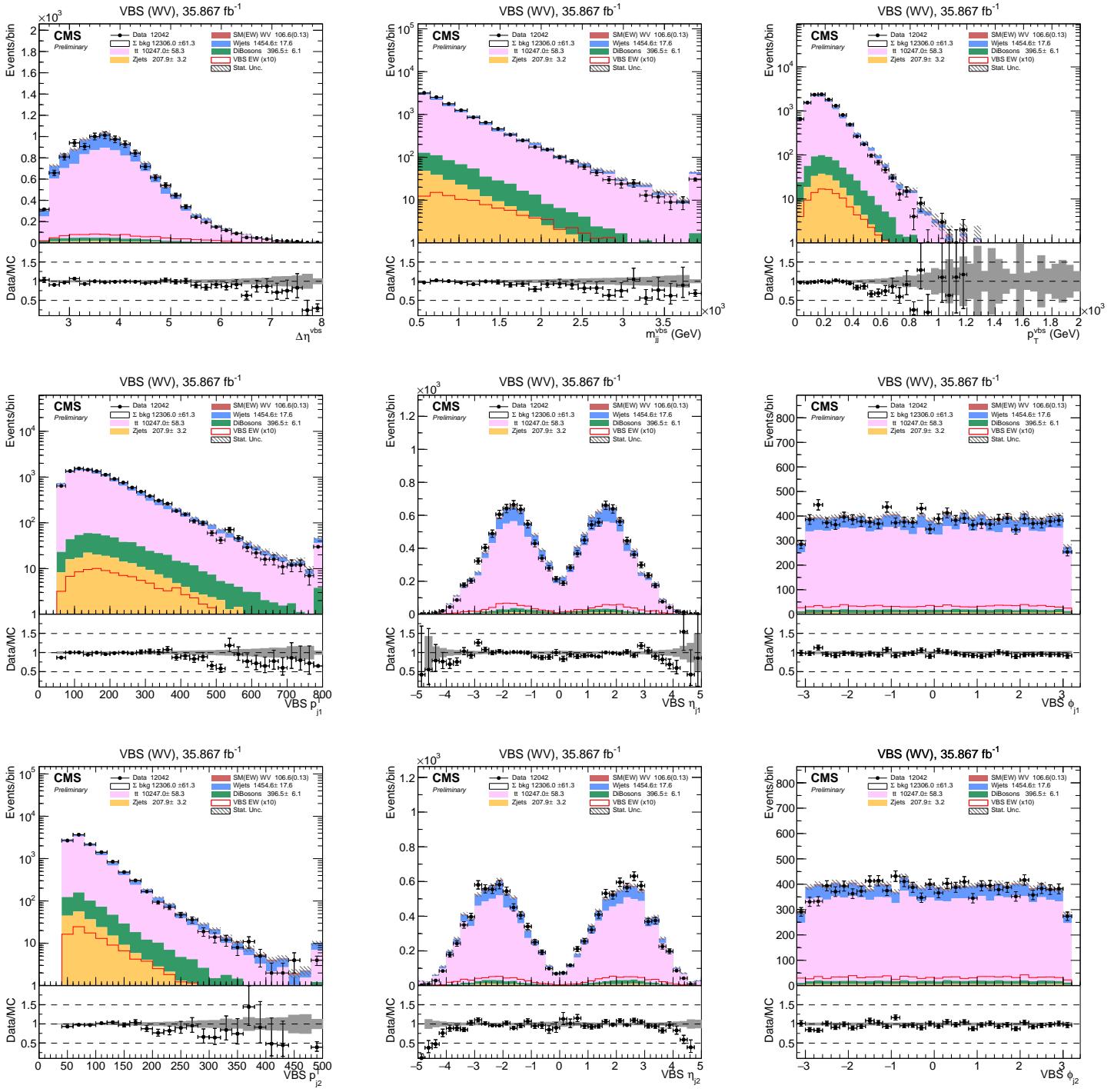


Figure 18: 2016 plot of c3 variables using cut: “Top\_CR”

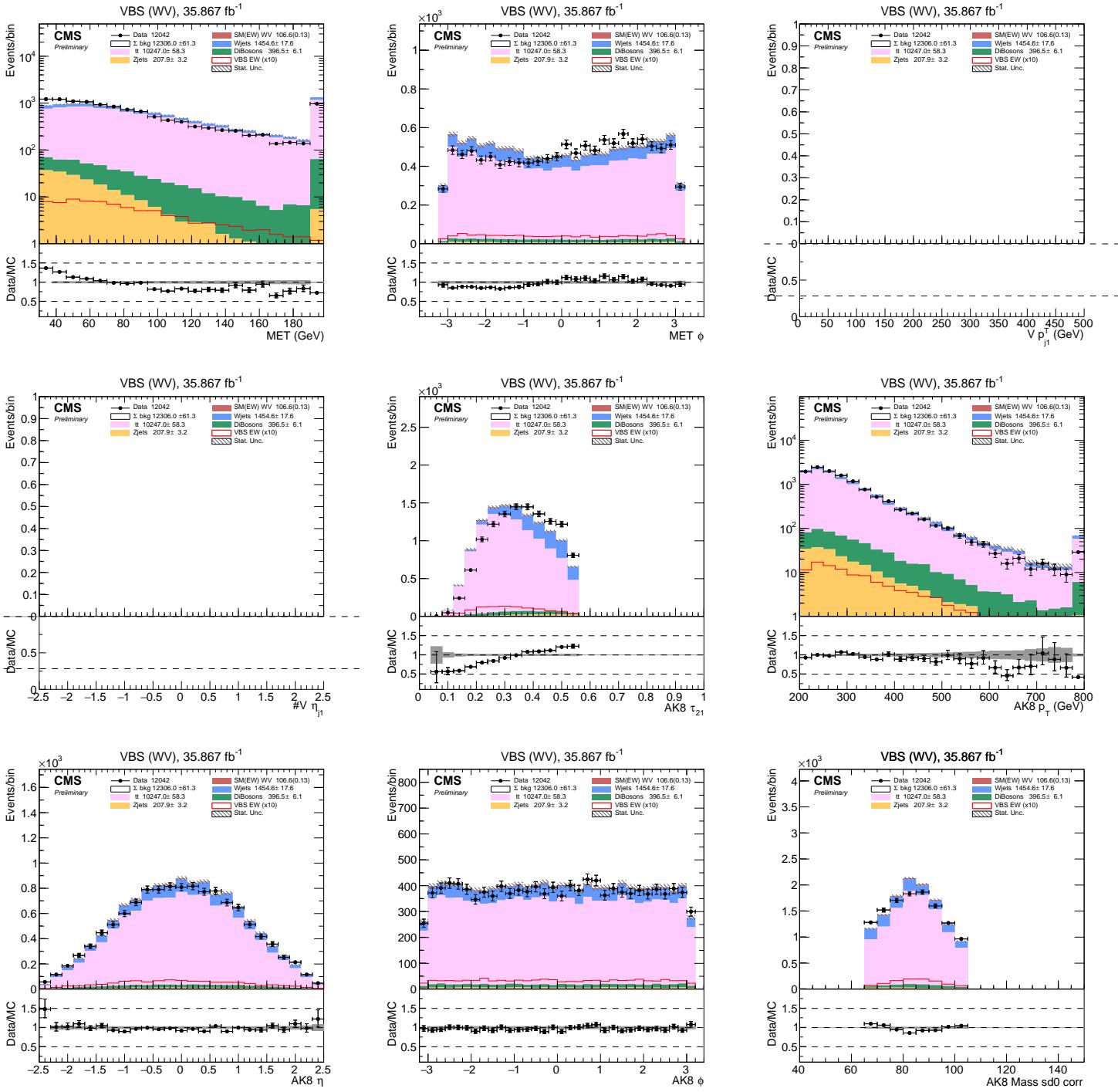
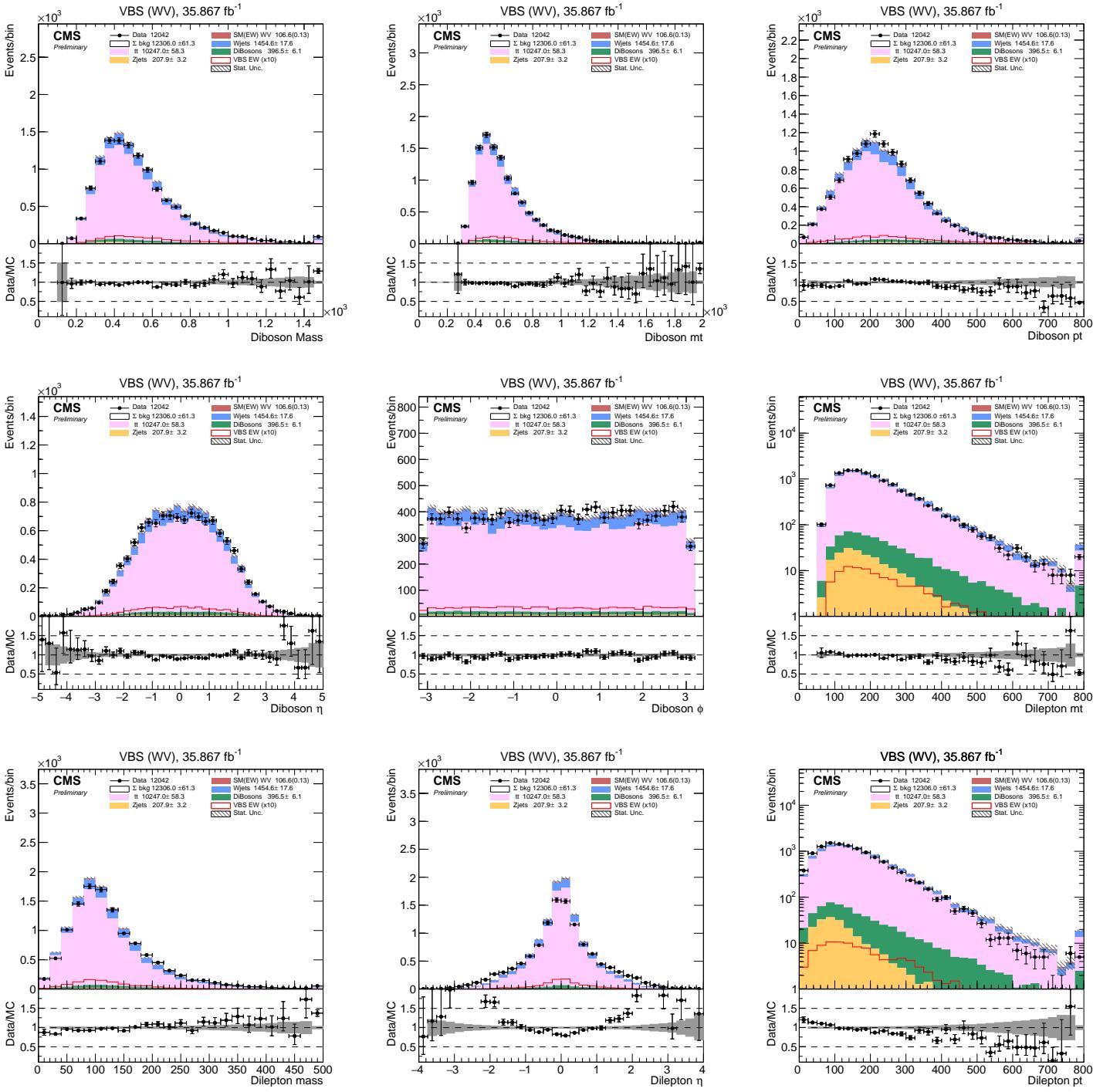
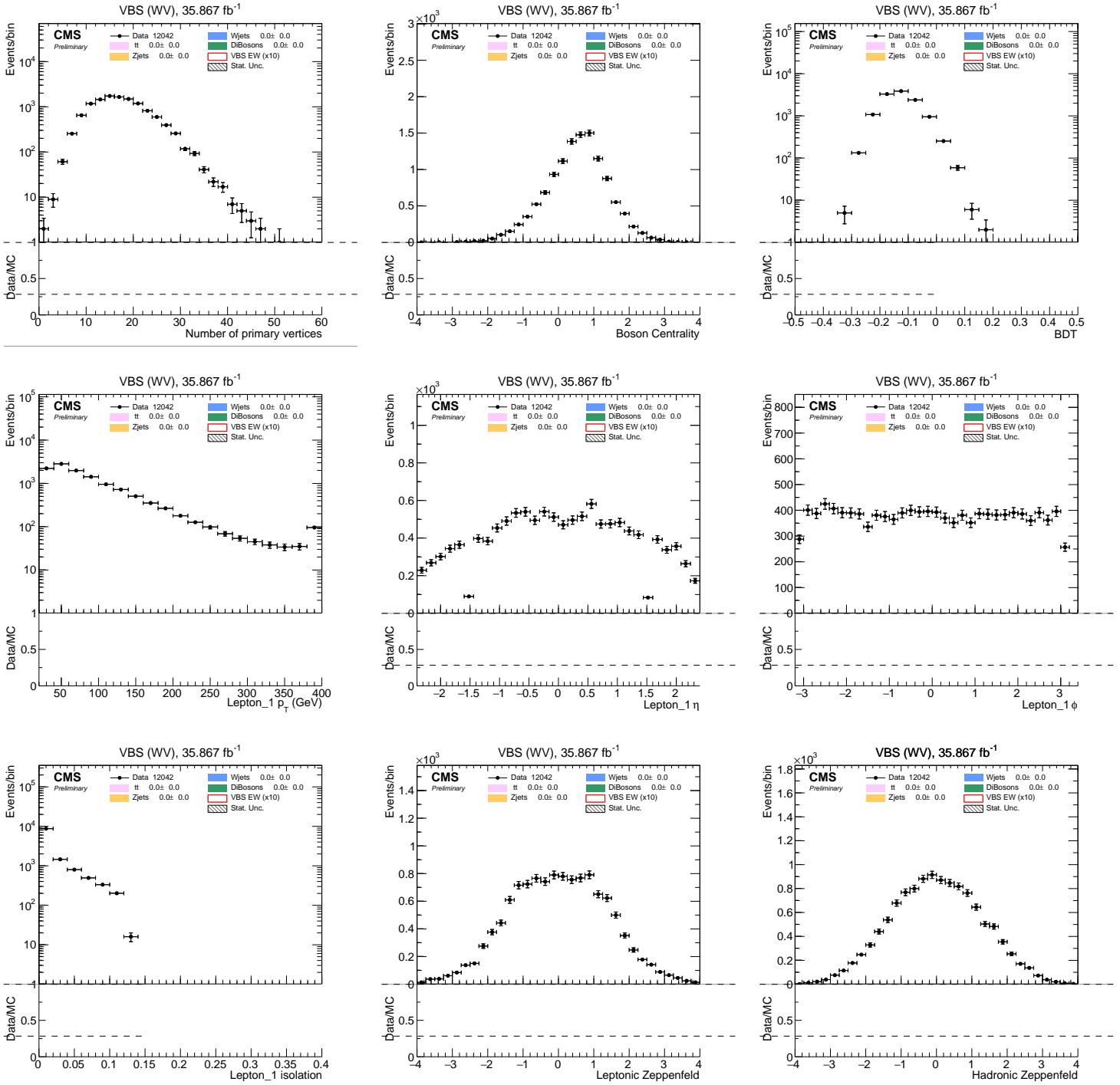


Figure 19: 2016 plot of c4 variables using cut: “Top\_CR”



## Top\_CRtest

Figure 20: 2016 plot of c1 variables using cut: “Top\_CRtest”



## Wjets\_CR

Figure 21: 2016 plot of c1 variables using cut: “Wjets\_CR”

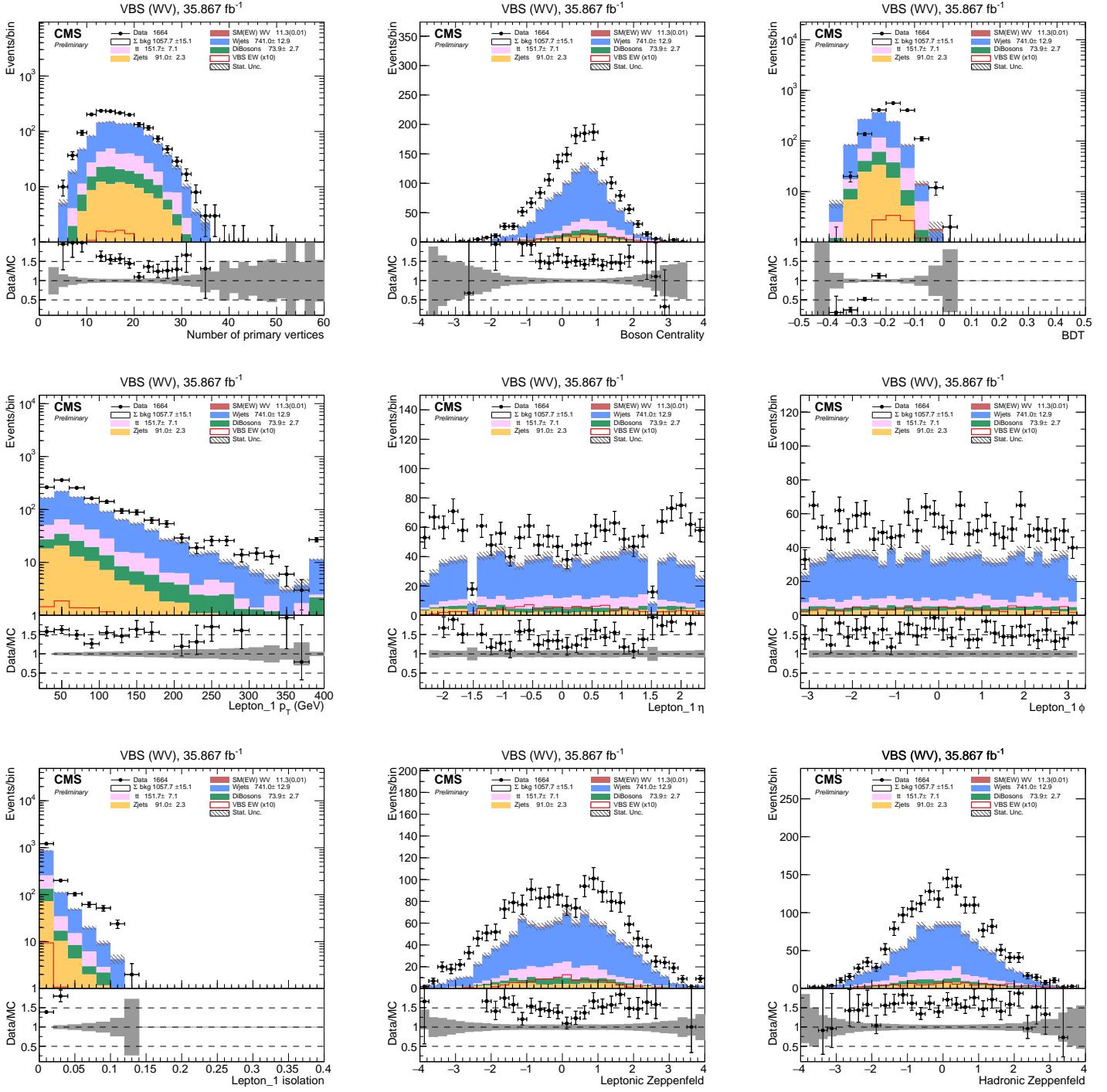


Figure 22: 2016 plot of c2 variables using cut: “Wjets\_CR”

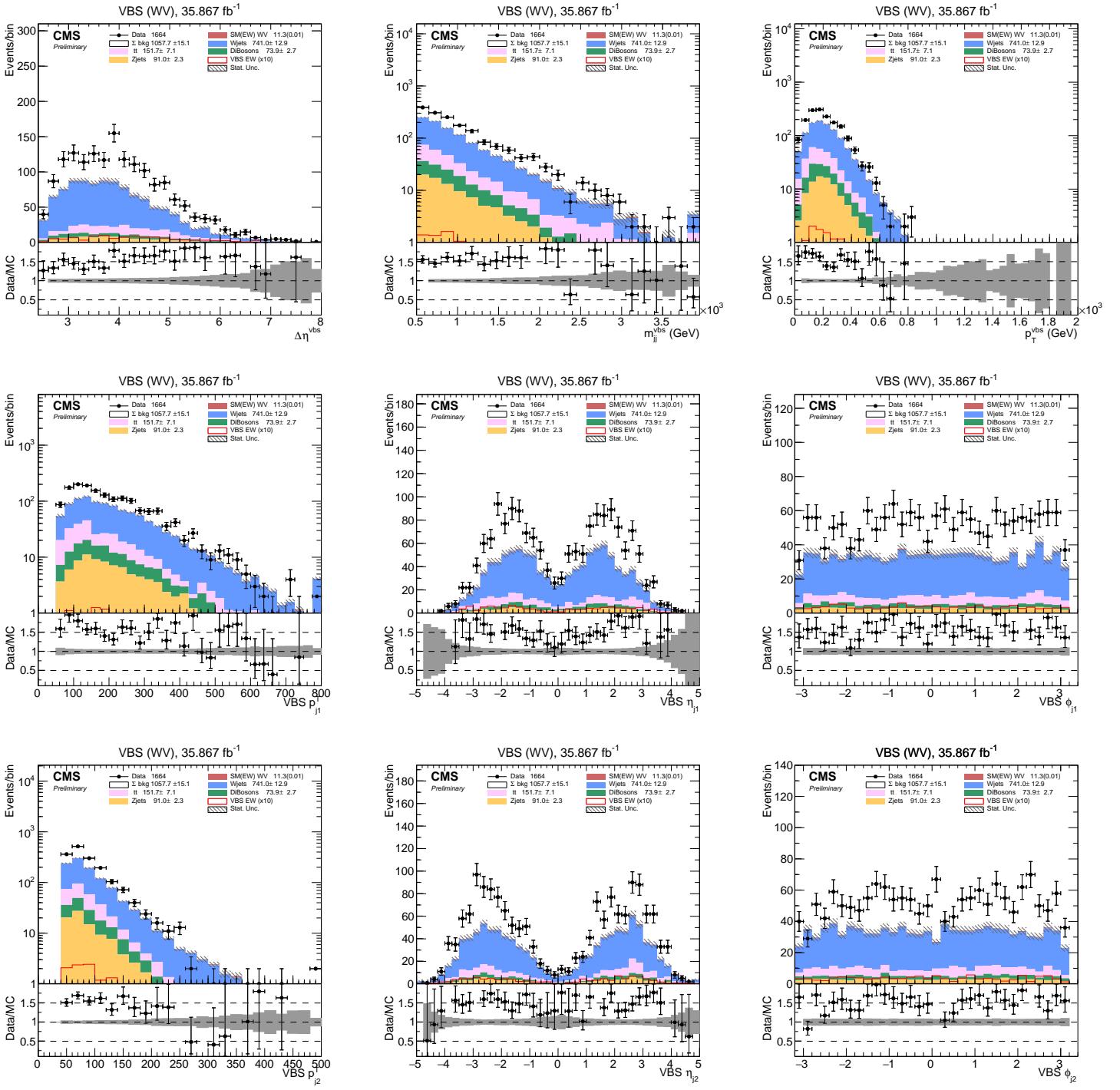


Figure 23: 2016 plot of c3 variables using cut: “Wjets\_CR”

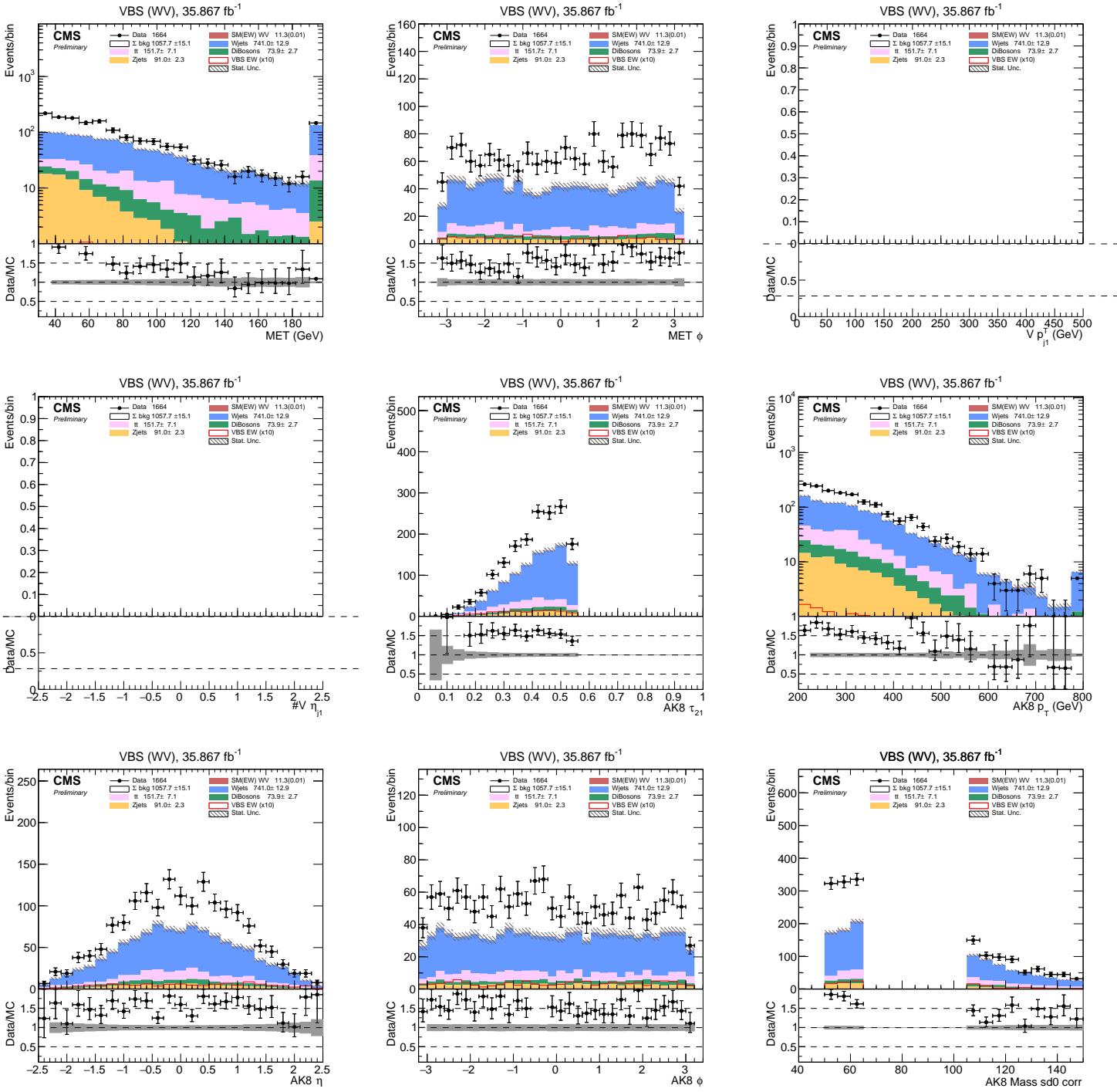
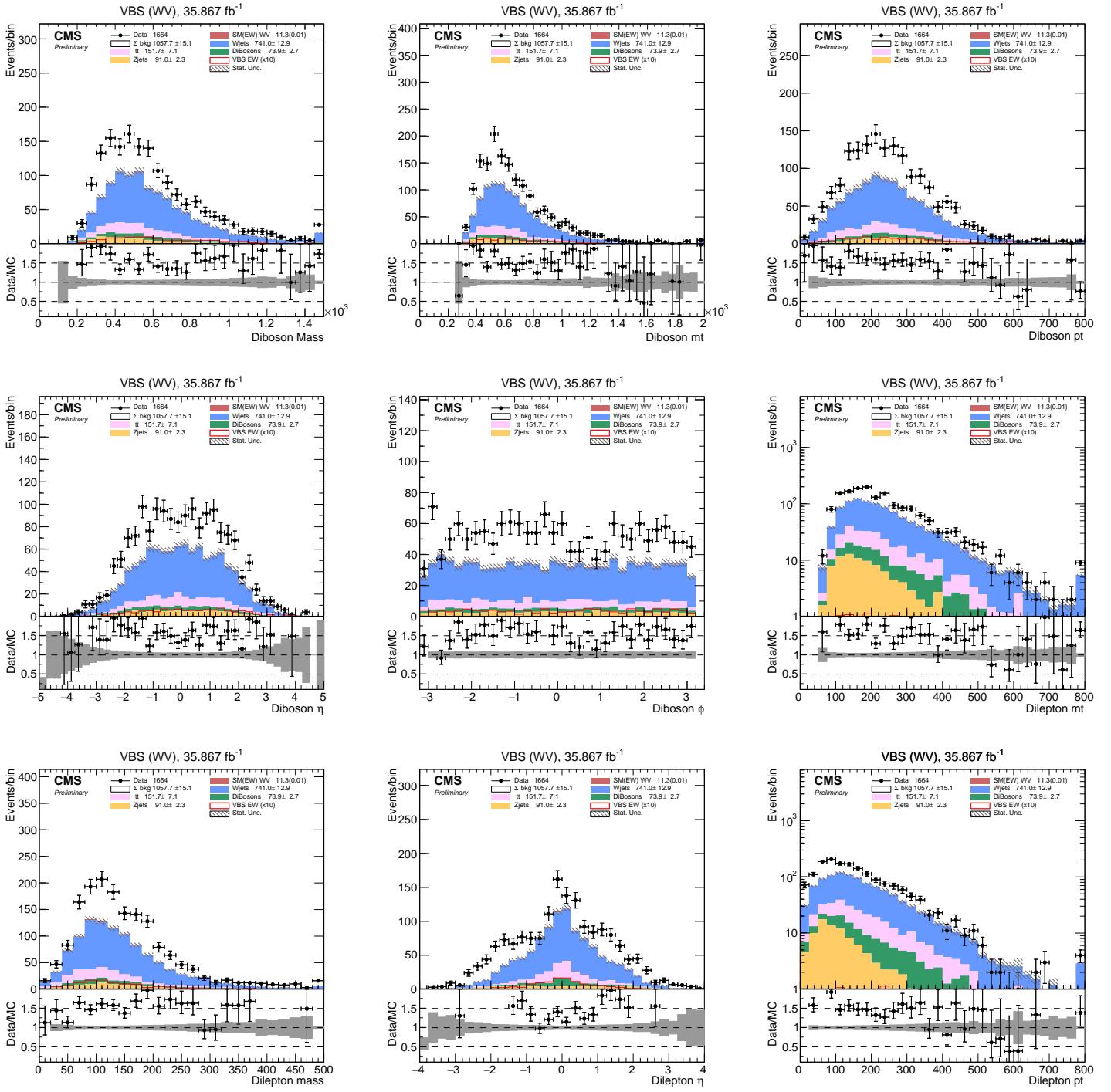


Figure 24: 2016 plot of c4 variables using cut: “Wjets\_CR”



## Wjets\_CRtest

Figure 25: 2016 plot of c1 variables using cut: “Wjets\_CRtest”

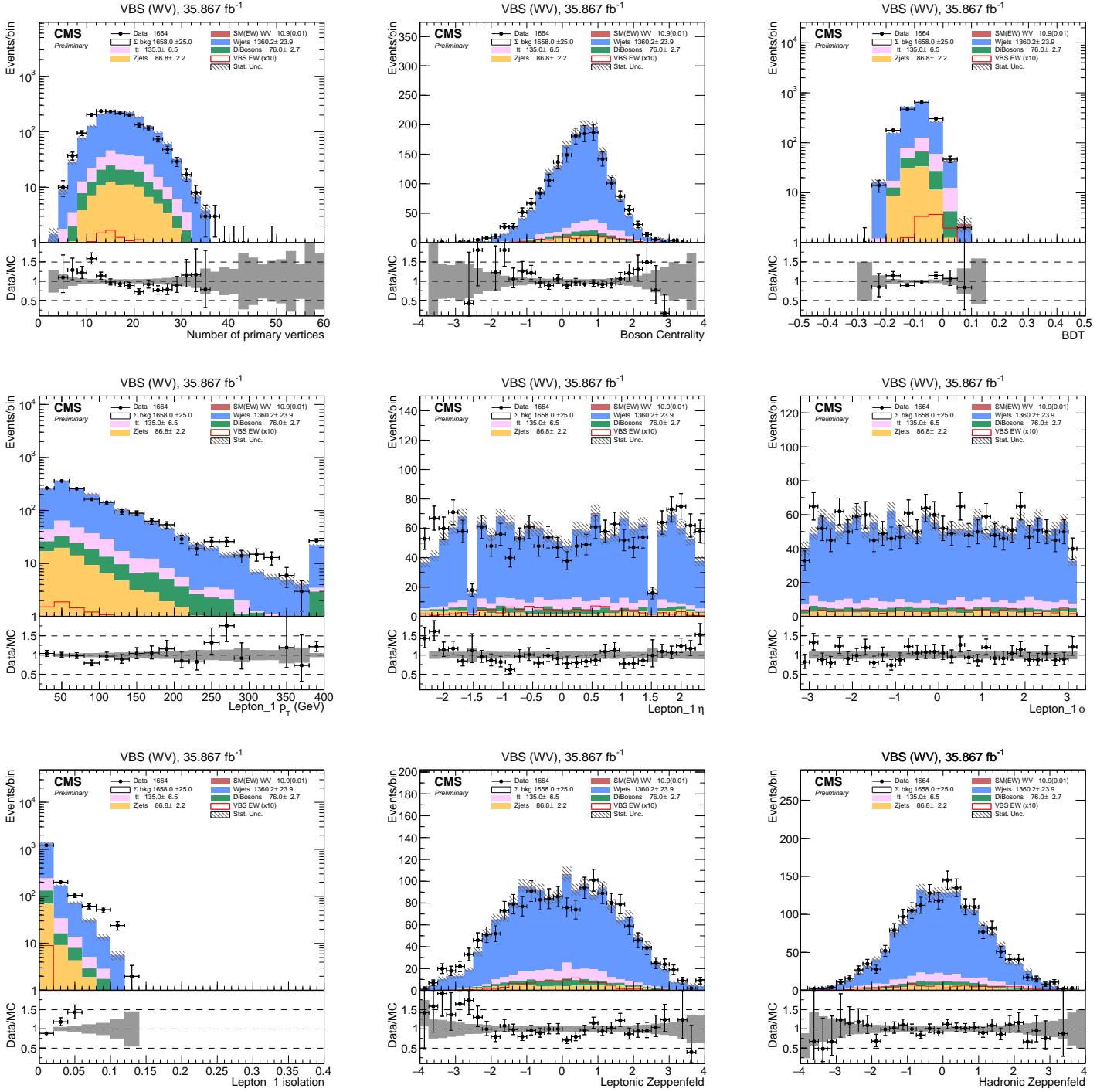


Figure 26: 2016 plot of c2 variables using cut: “Wjets\_CRTtest”

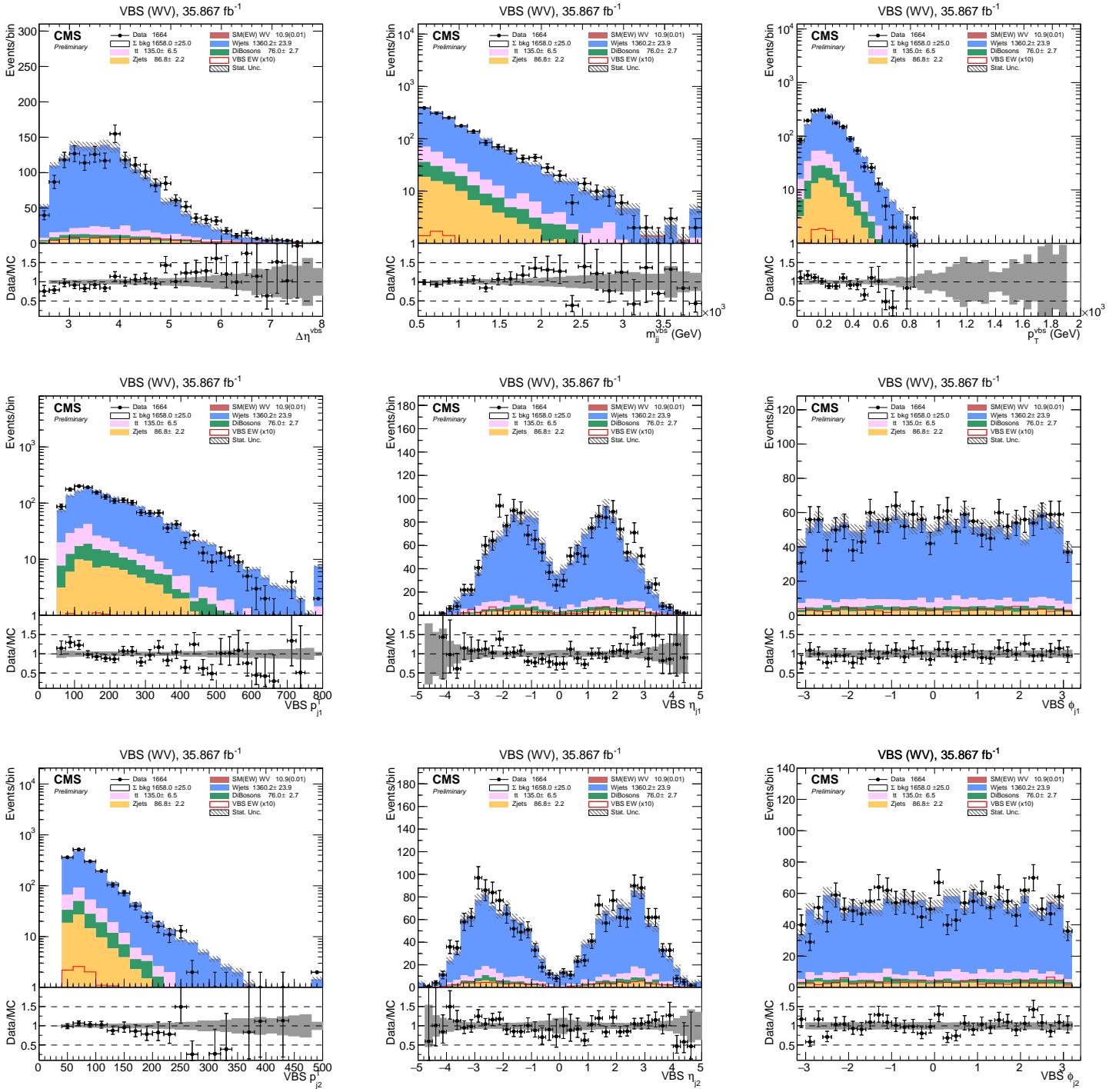


Figure 27: 2016 plot of c3 variables using cut: “Wjets\_CRTtest”

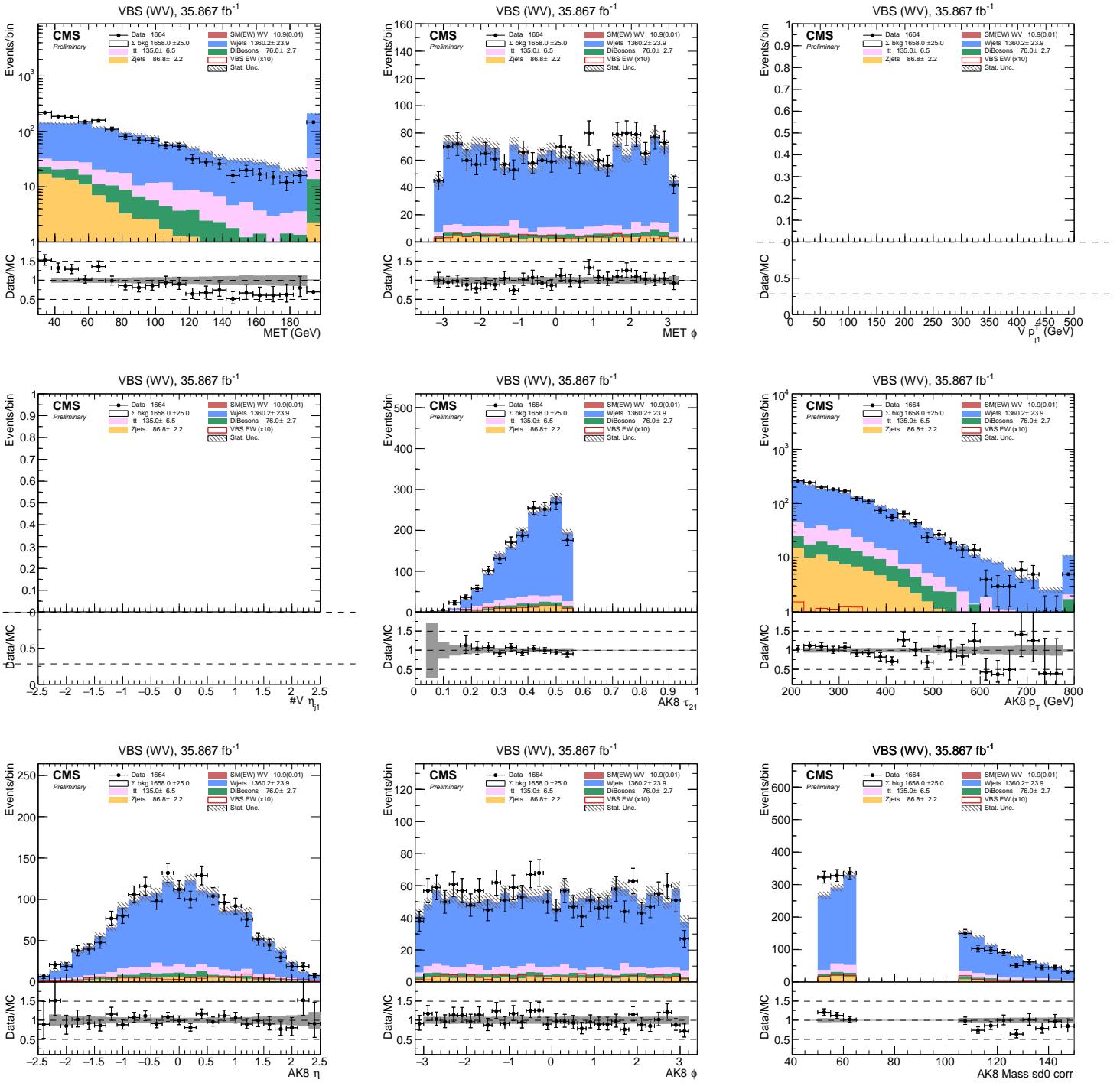


Figure 28: 2016 plot of c4 variables using cut: “Wjets\_CRTtest”

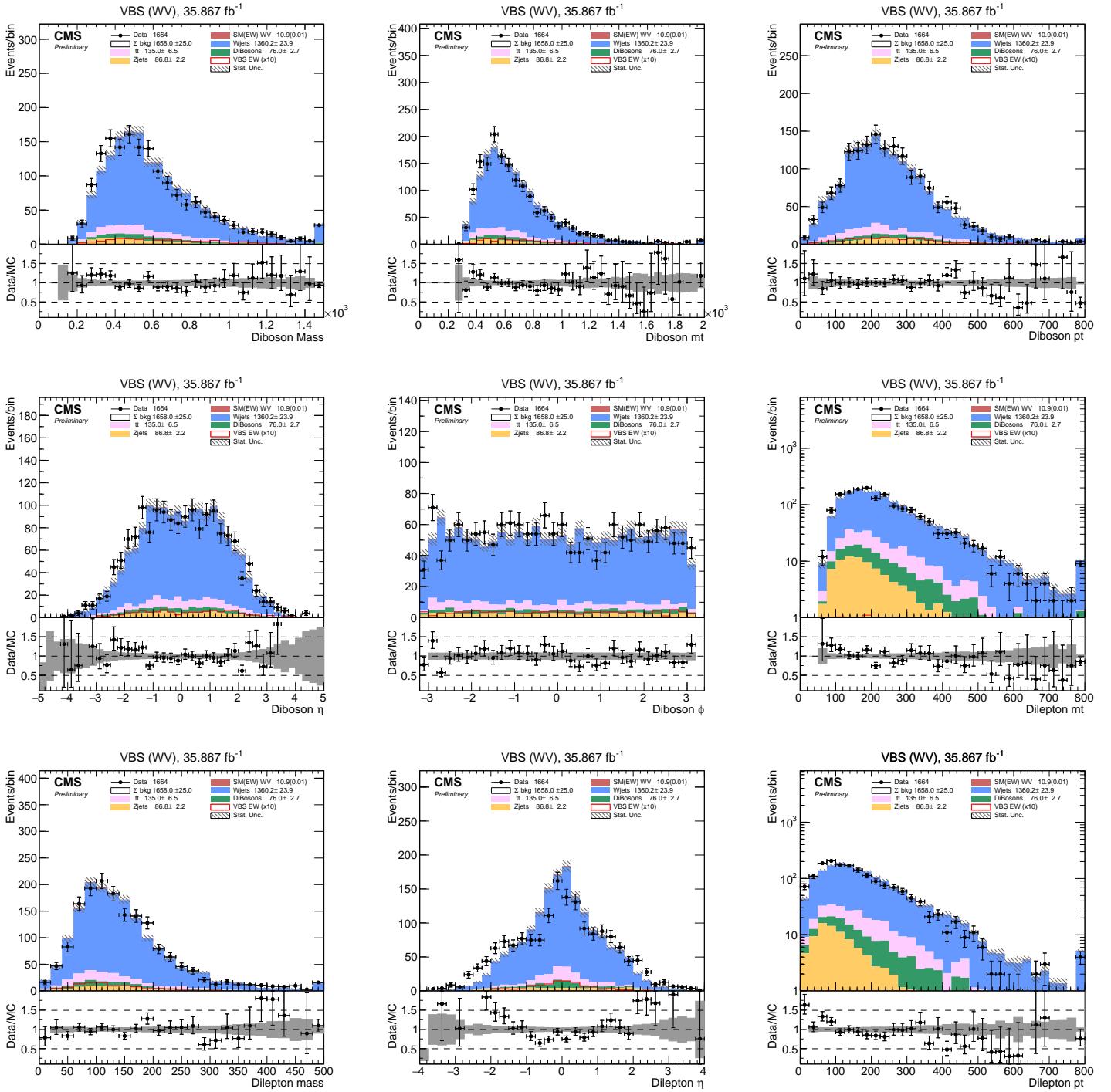


Figure 29: 2017 plot of c1 variables using cut: “Full\_SR”

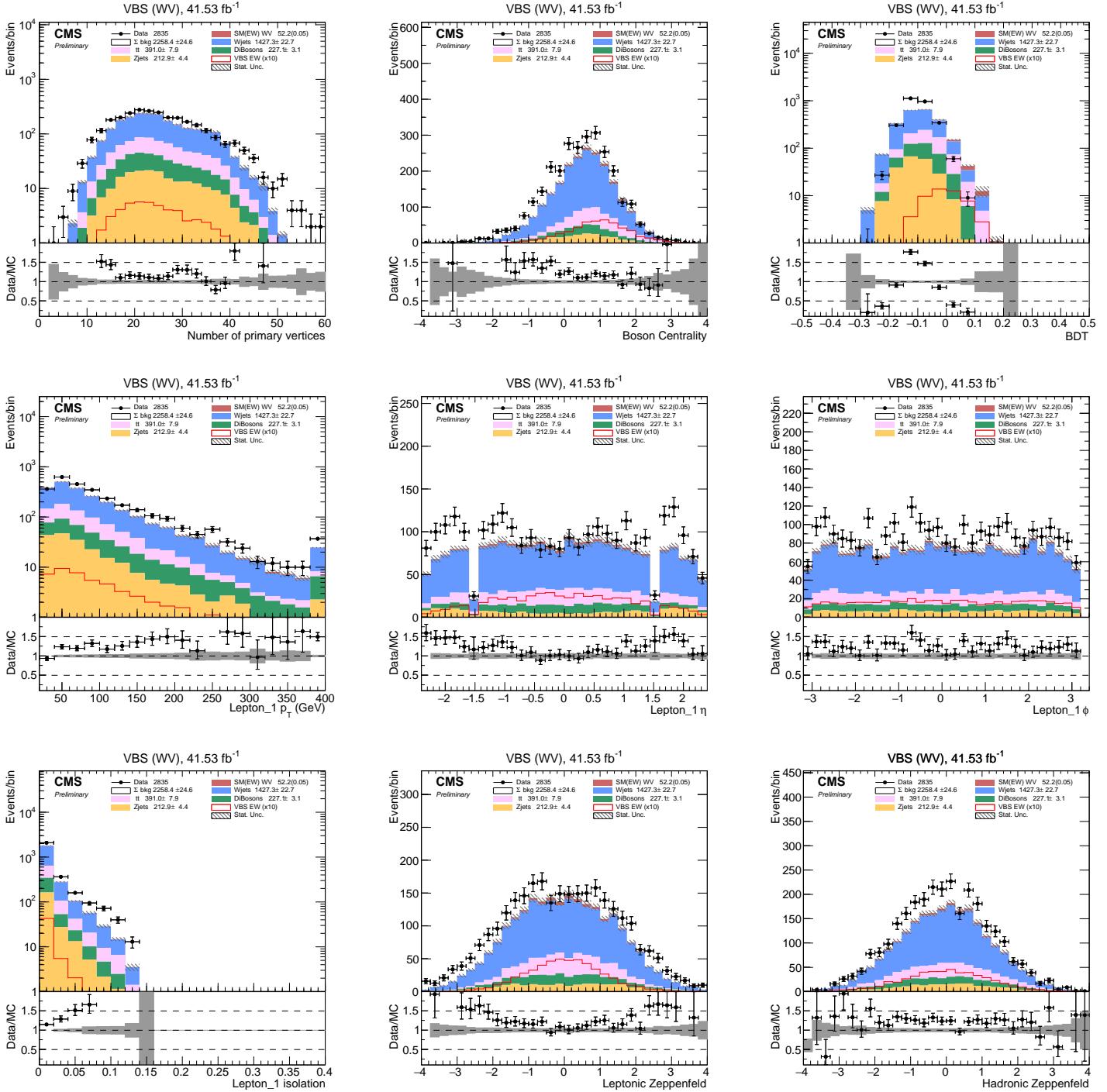


Figure 30: 2017 plot of c2 variables using cut: “Full\_SR”

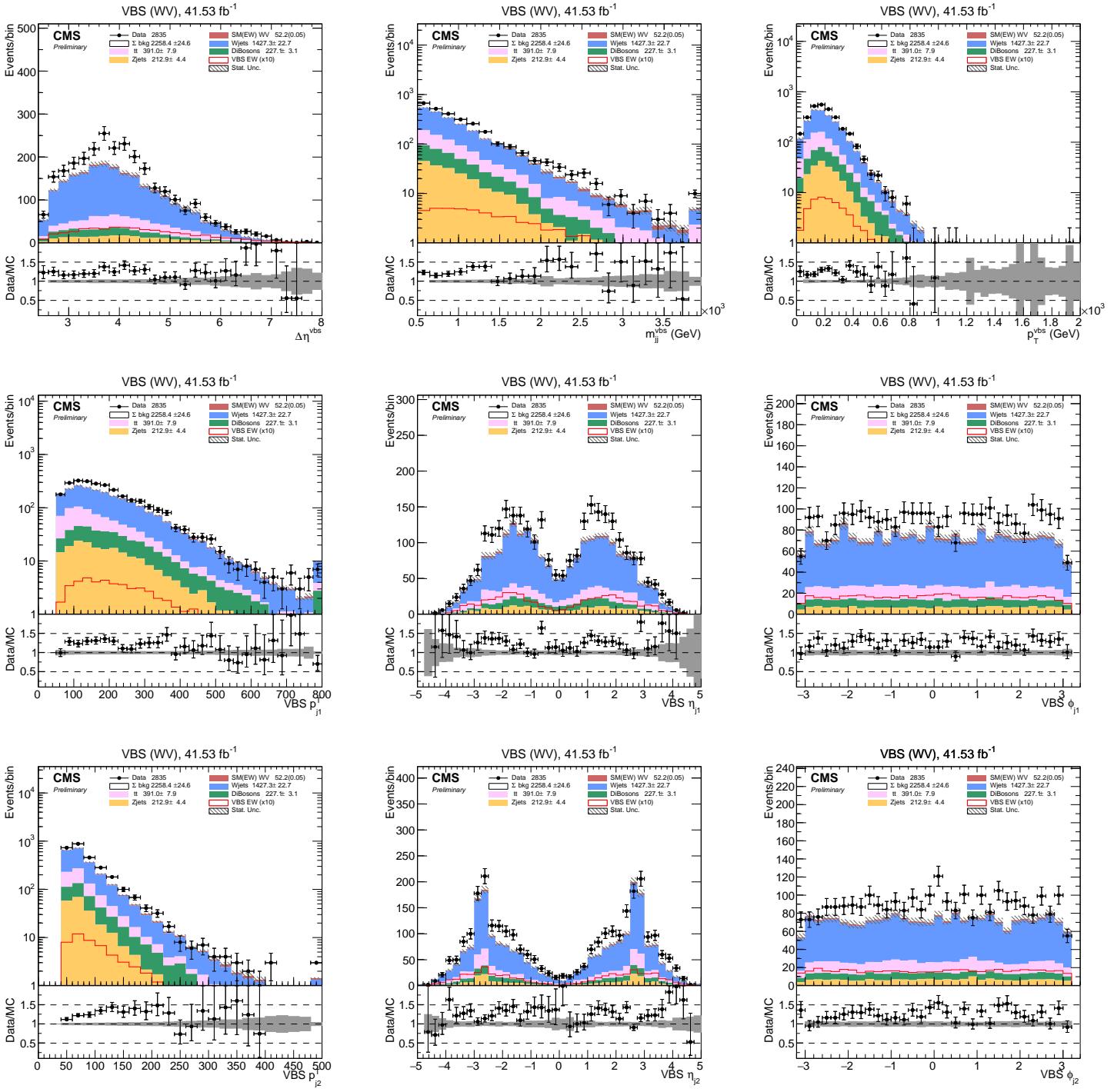


Figure 31: 2017 plot of c3 variables using cut: “Full\_SR”

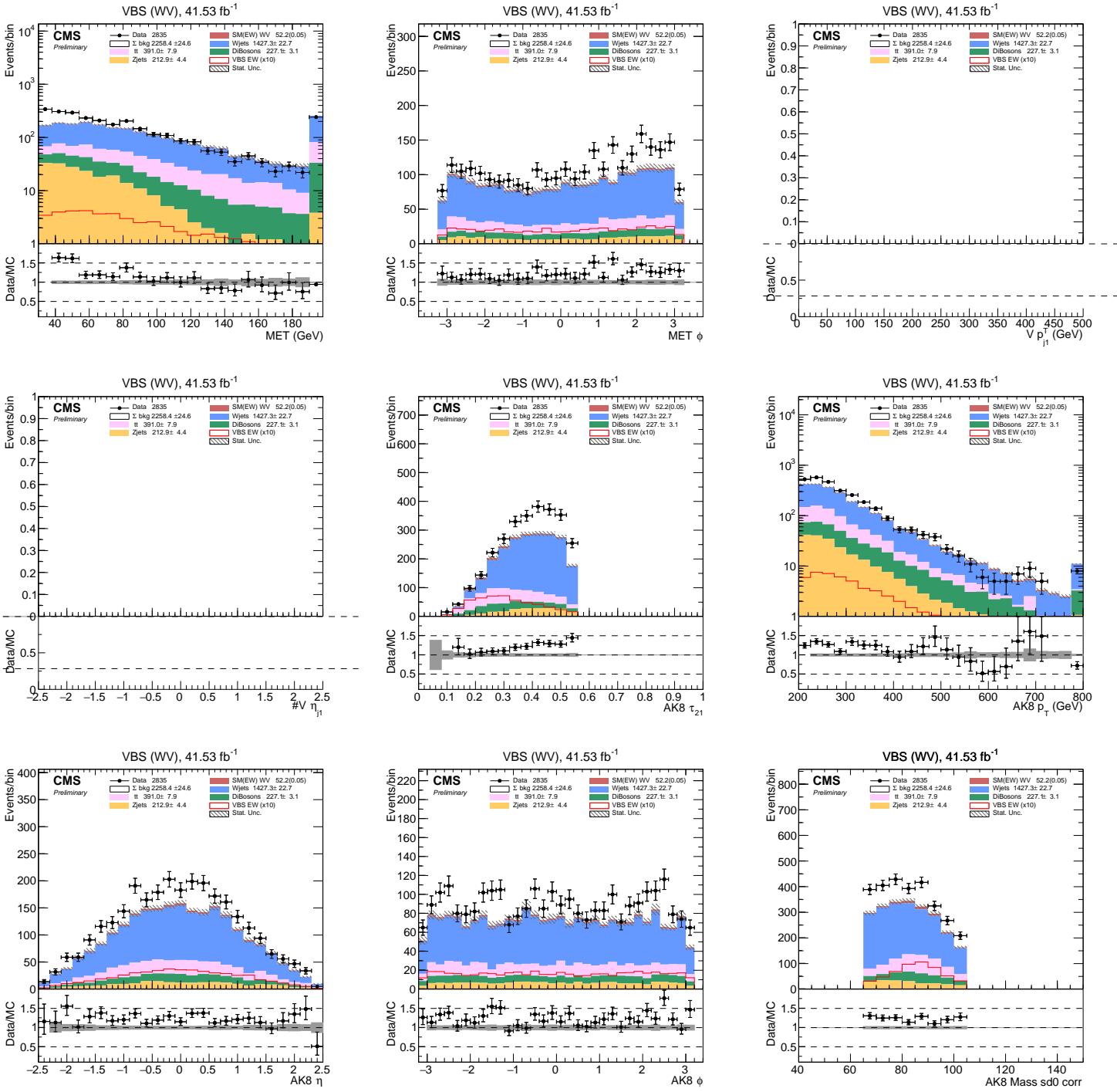
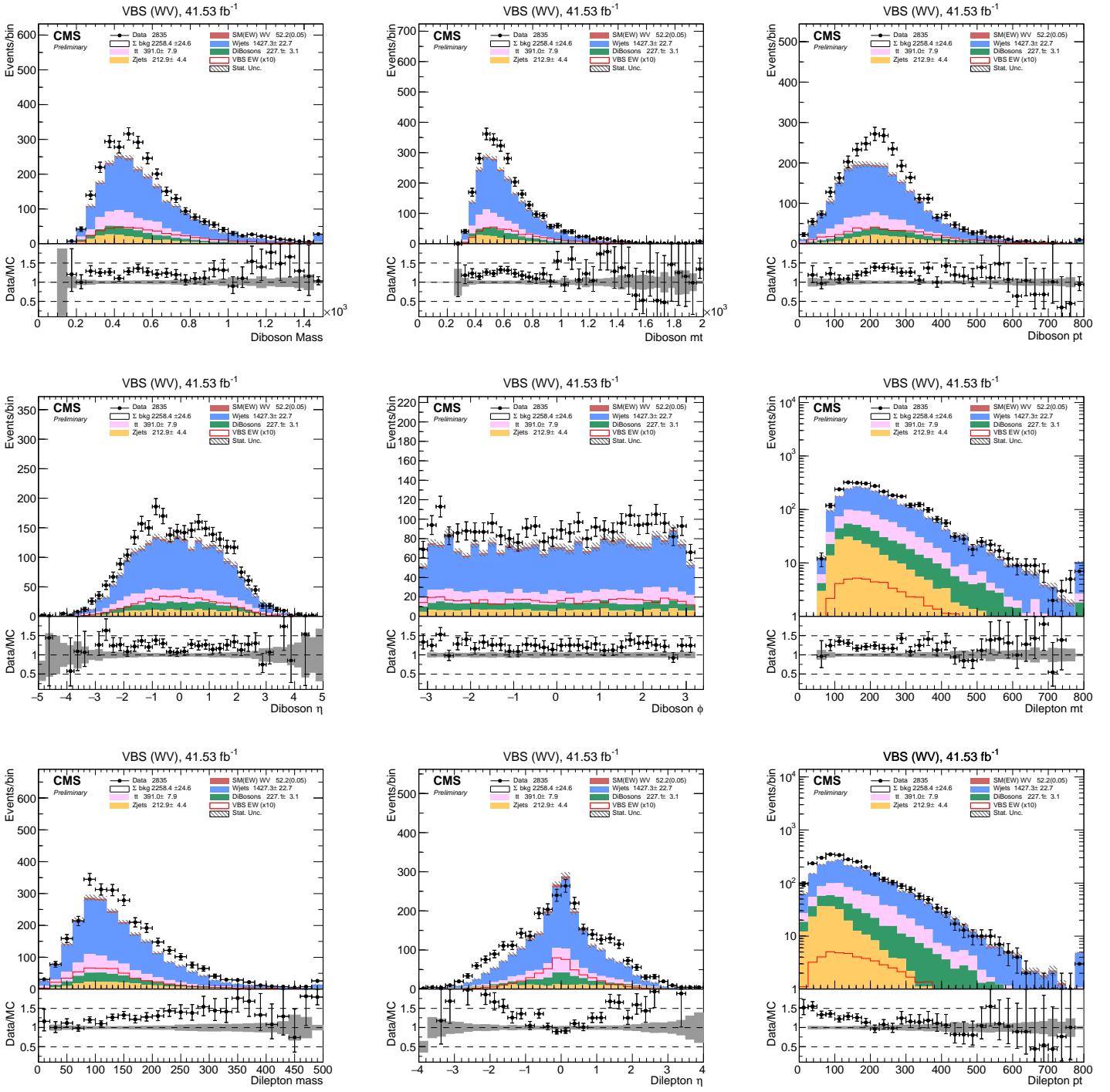


Figure 32: 2017 plot of c4 variables using cut: “Full\_SR”



# Top\_CR

Figure 33: 2017 plot of c1 variables using cut: “Top\_CR”

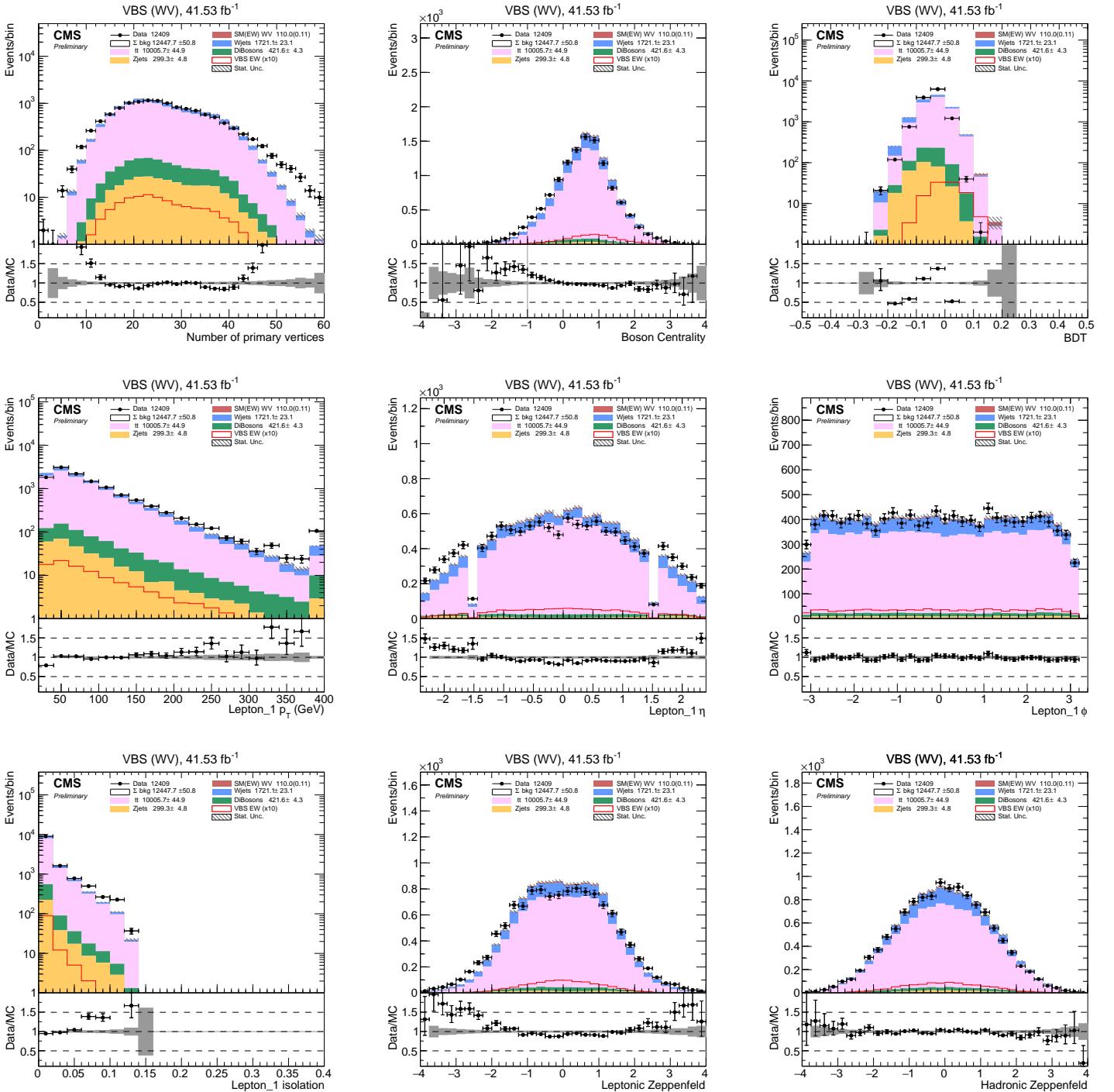


Figure 34: 2017 plot of c2 variables using cut: “Top\_CR”

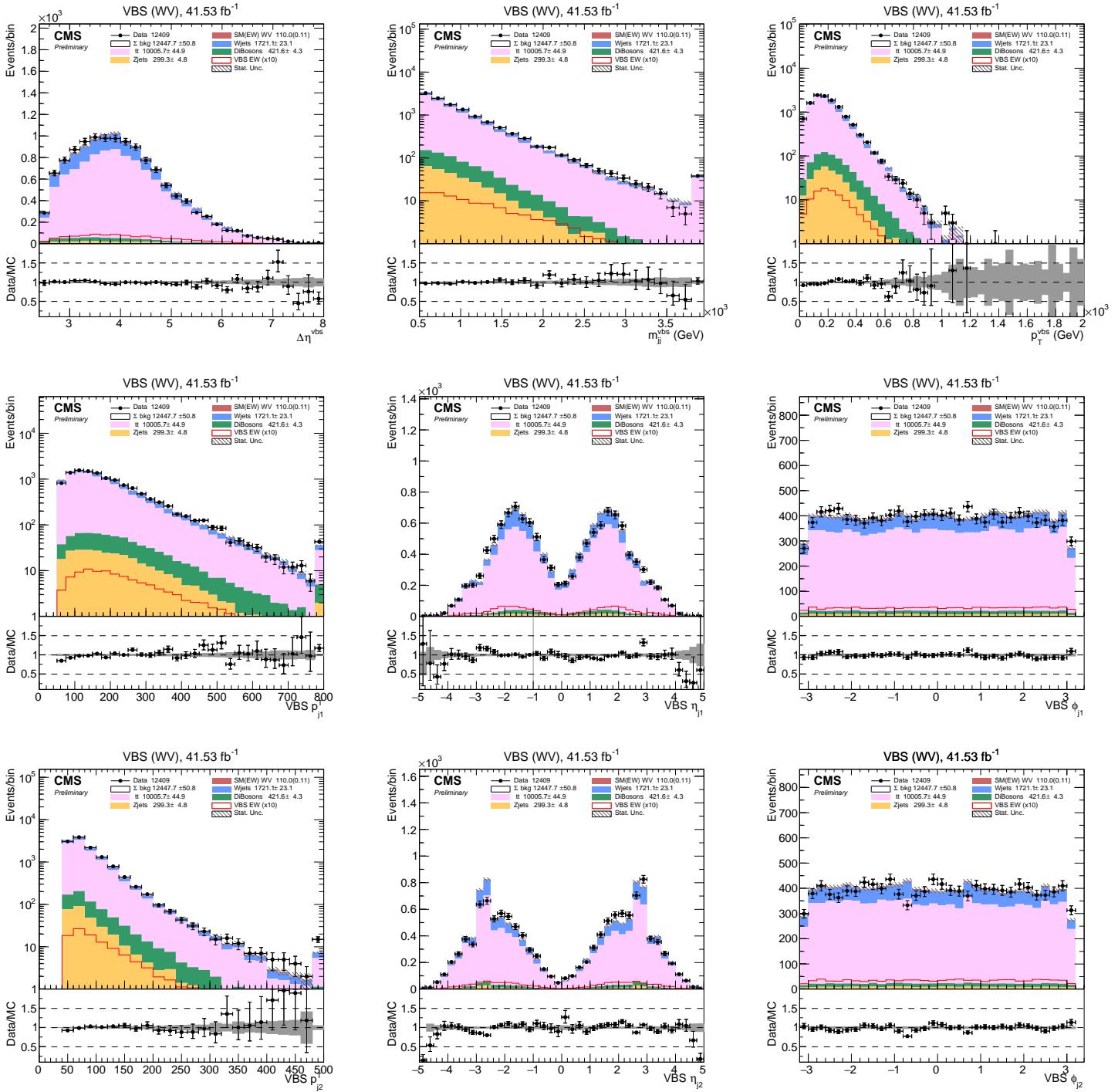


Figure 35: 2017 plot of c3 variables using cut: “Top\_CR”

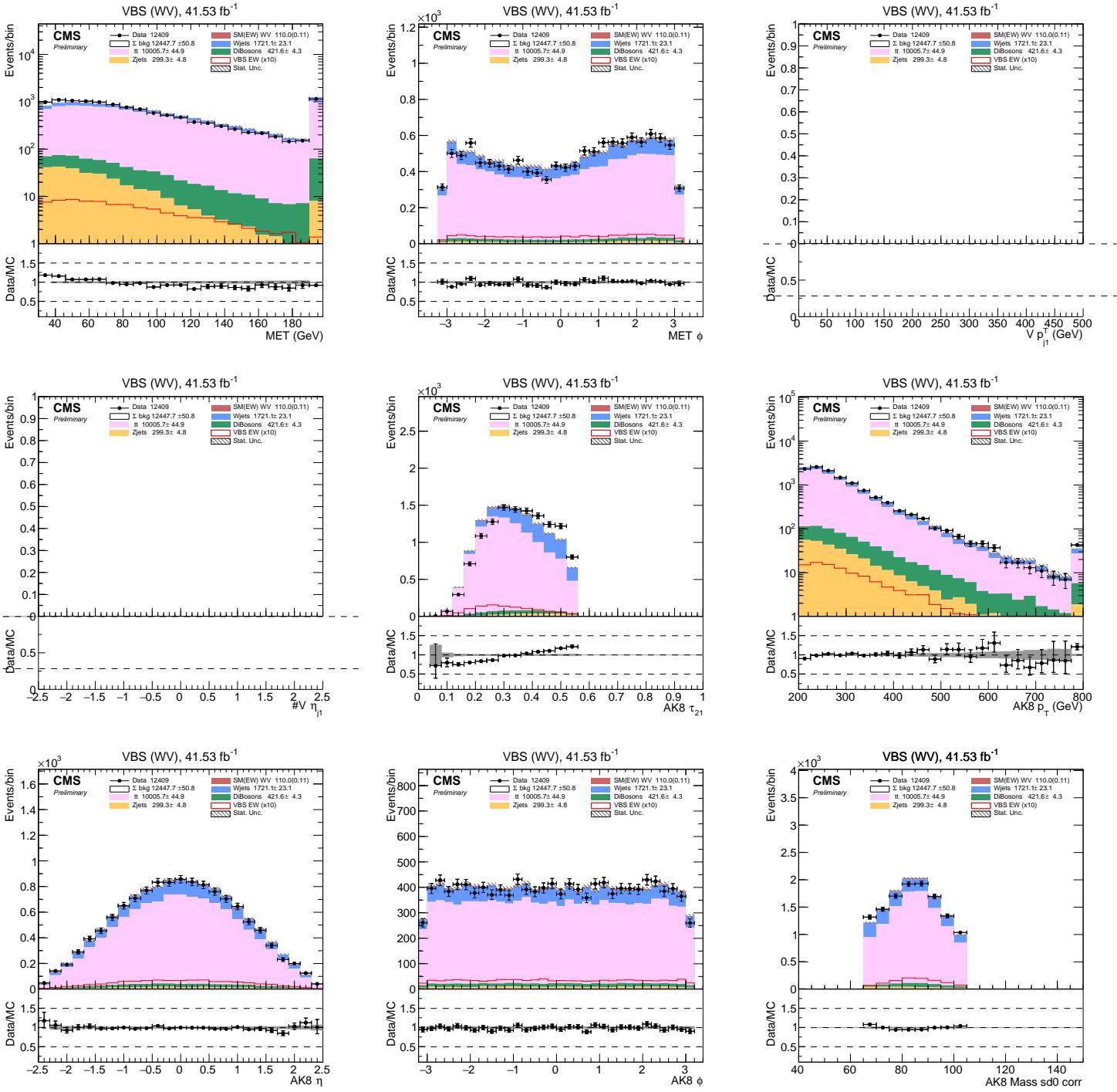
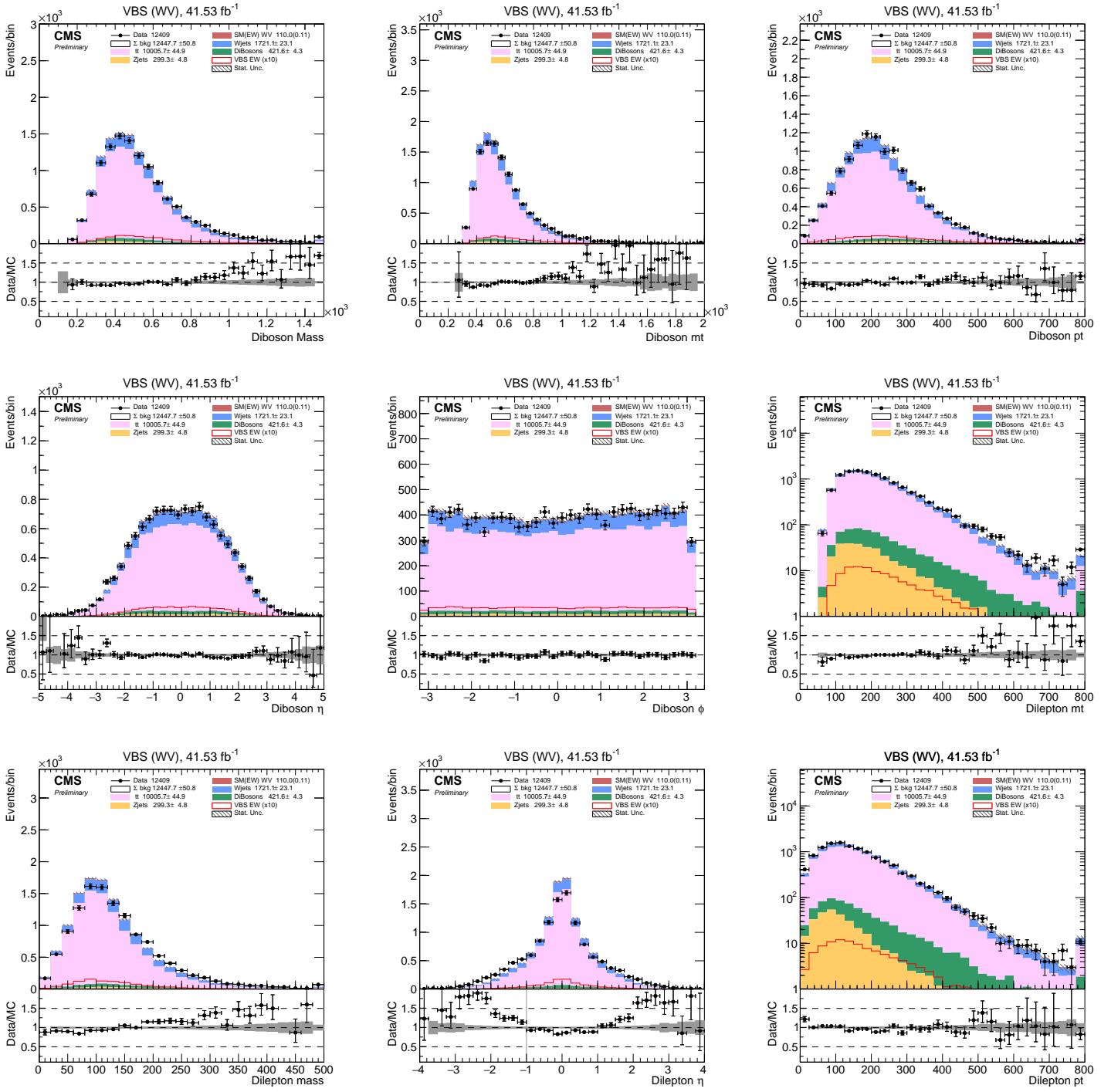


Figure 36: 2017 plot of c4 variables using cut: “Top\_CR”



## Wjets\_CR

Figure 37: 2017 plot of c1 variables using cut: “Wjets\_CR”

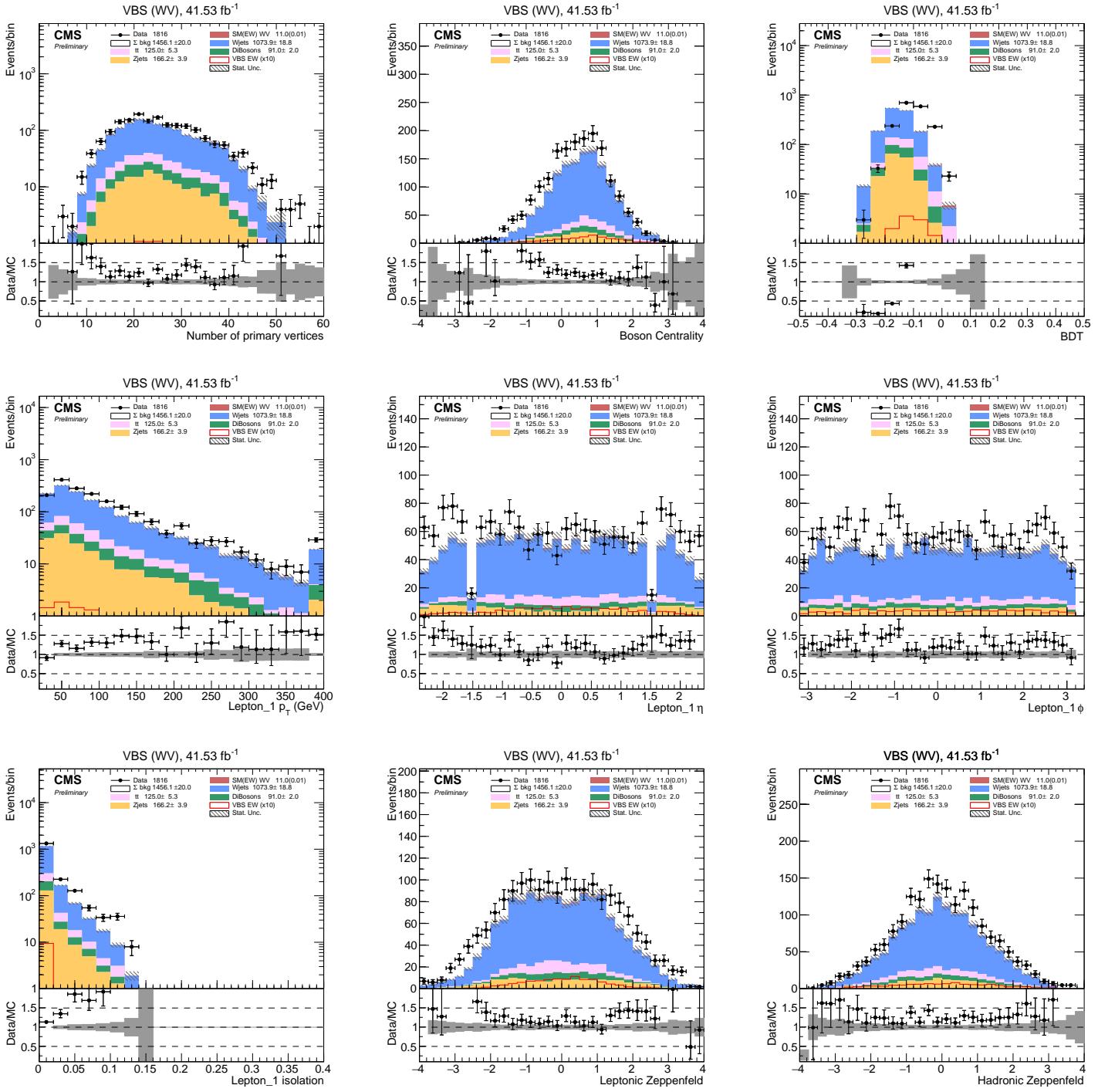


Figure 38: 2017 plot of c2 variables using cut: “Wjets\_CR”

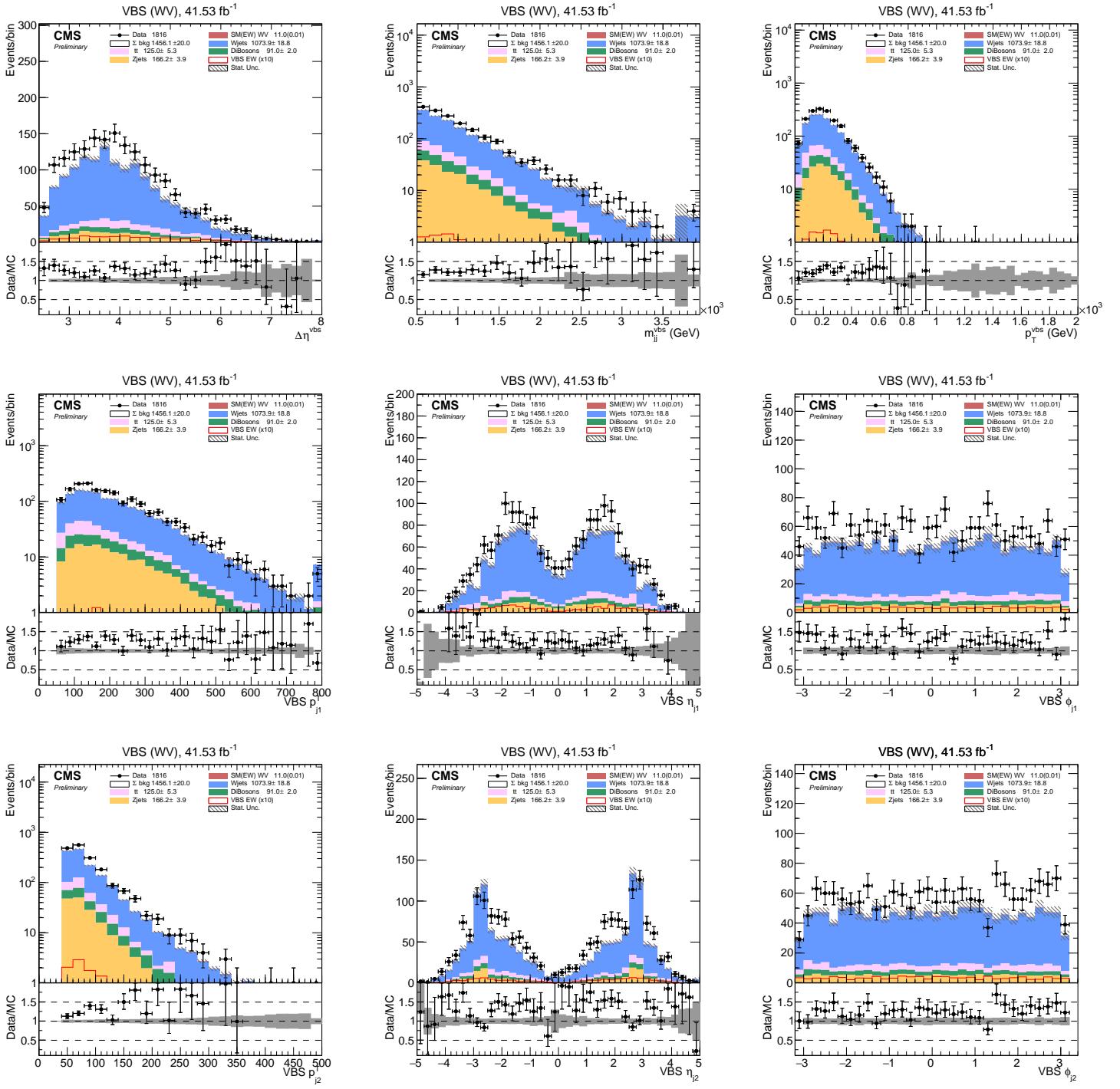


Figure 39: 2017 plot of c3 variables using cut: “Wjets\_CR”

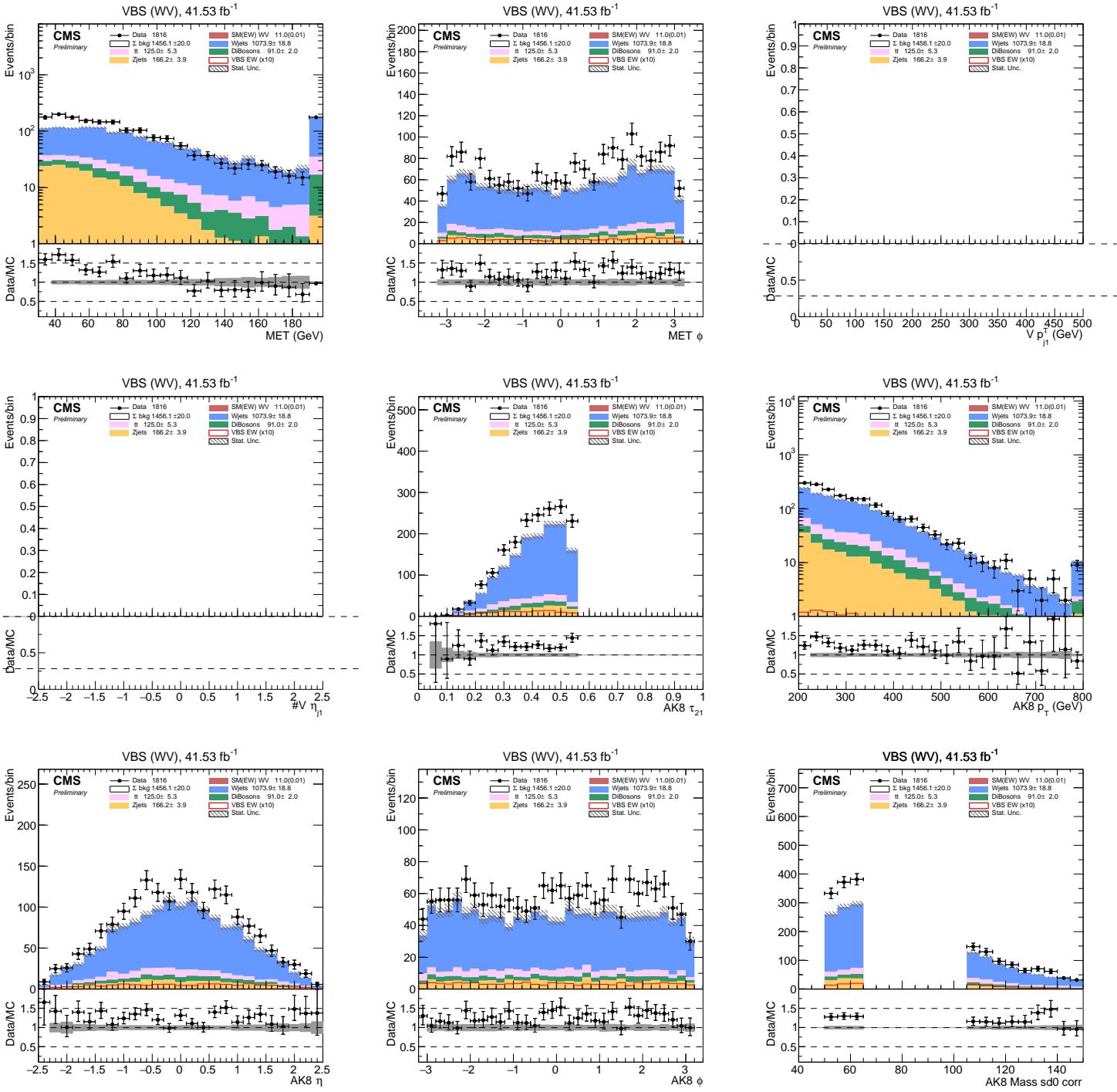
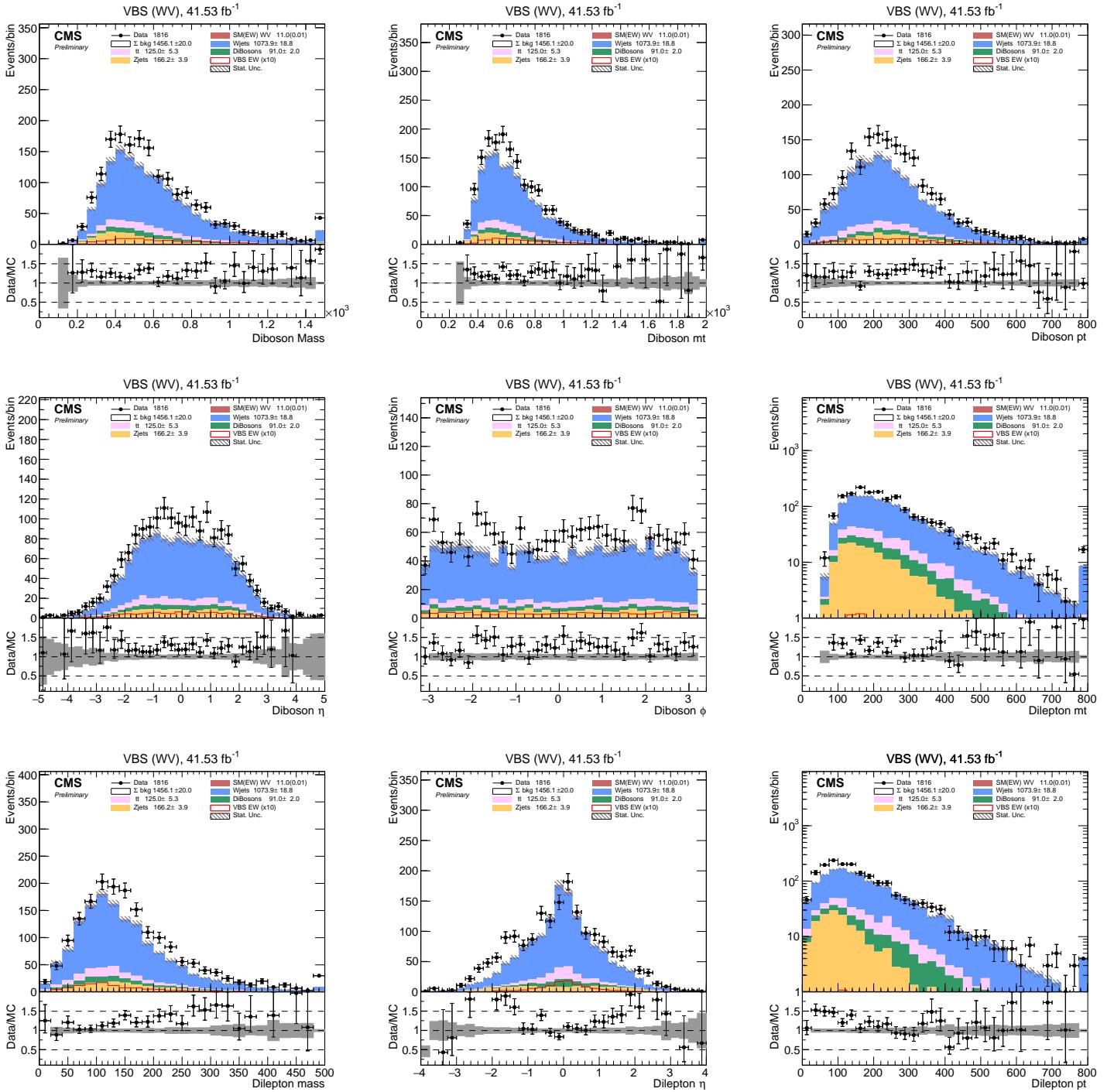


Figure 40: 2017 plot of c4 variables using cut: “Wjets\_CR”



2018

Full\_SR

Figure 41: 2018 plot of c1 variables using cut: “Full\_SR”

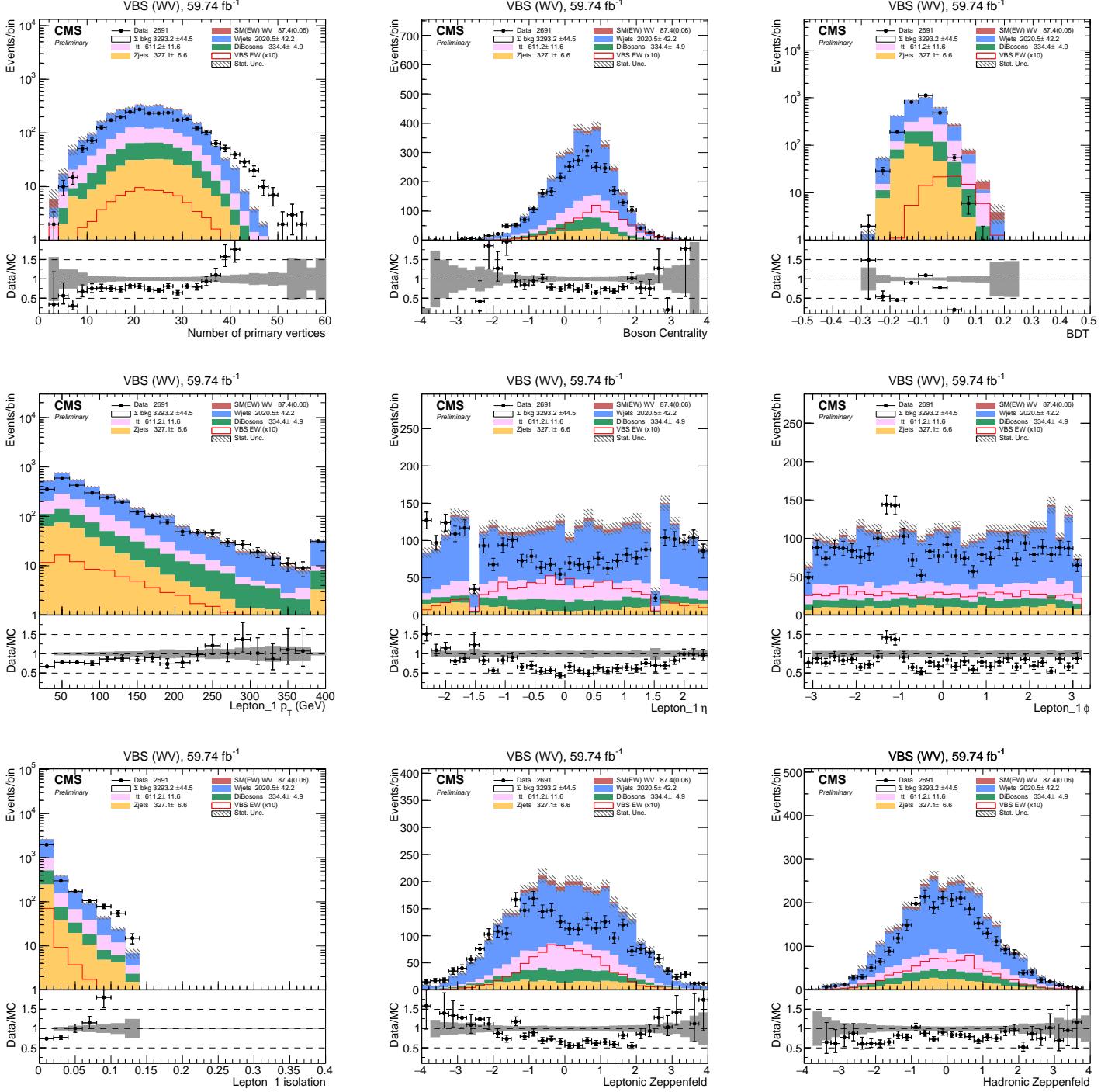


Figure 42: 2018 plot of c2 variables using cut: “Full\_SR”

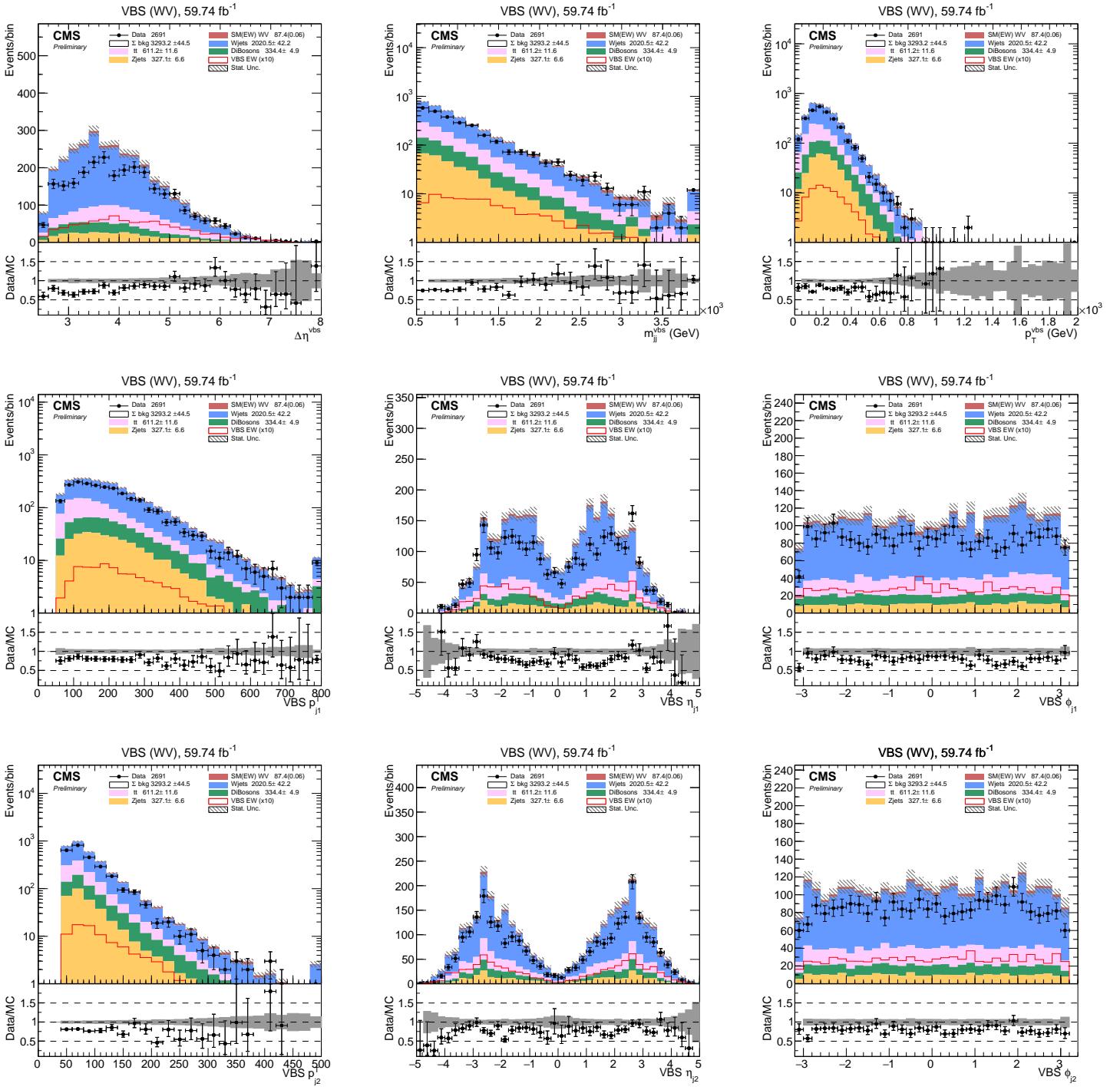


Figure 43: 2018 plot of c3 variables using cut: “Full\_SR”

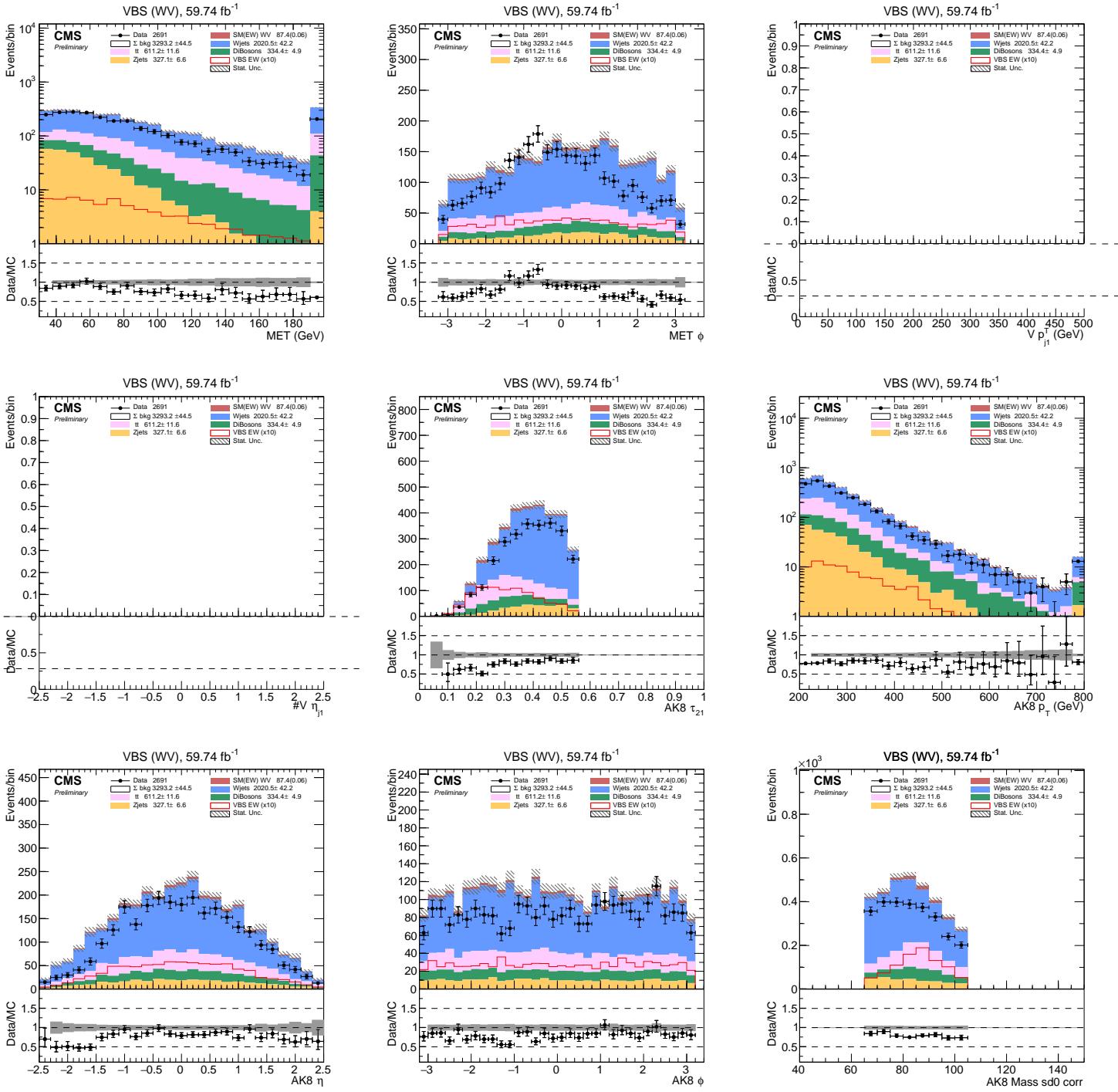
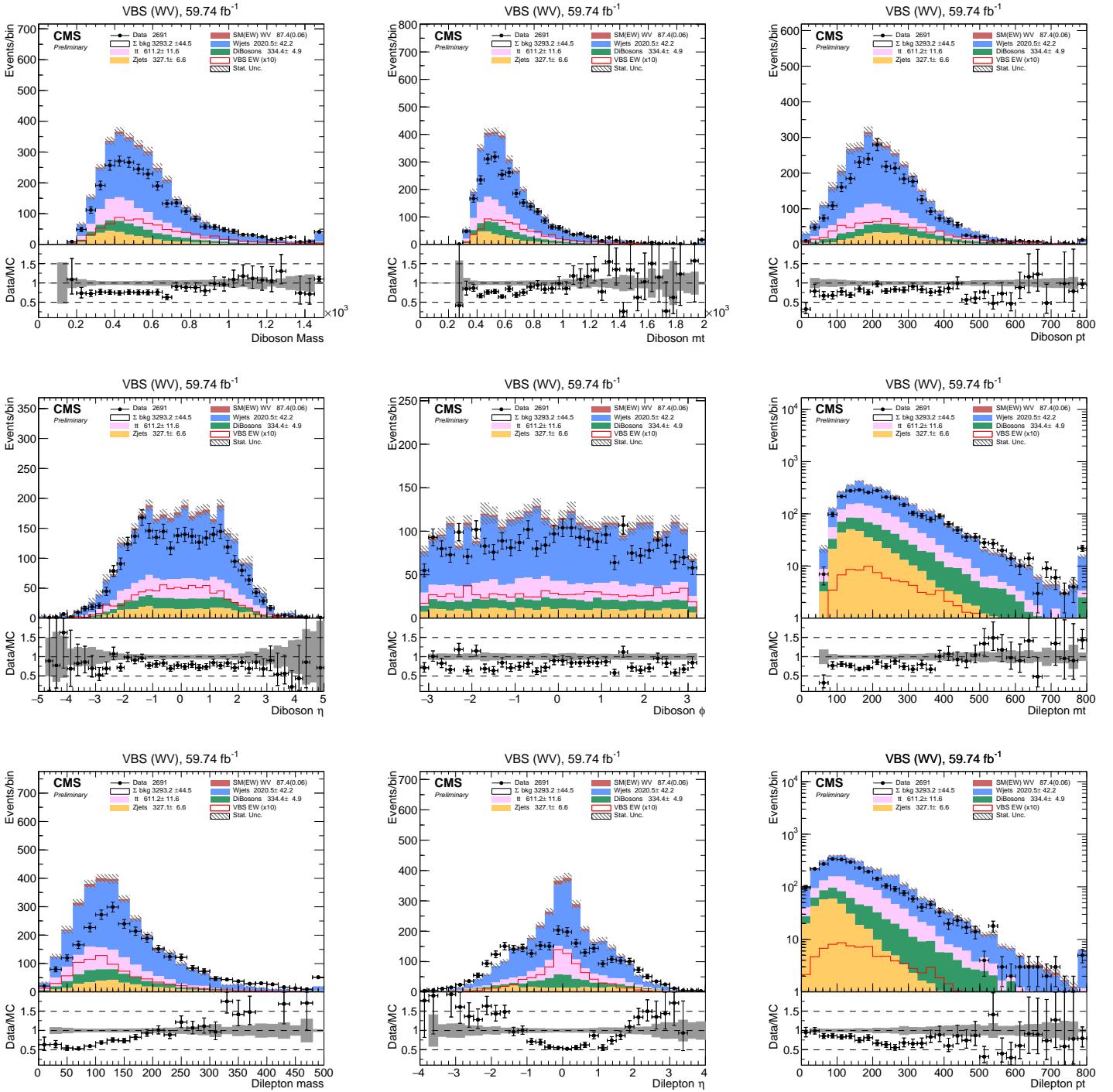


Figure 44: 2018 plot of c4 variables using cut: “Full\_SR”



# Top\_CR

Figure 45: 2018 plot of c1 variables using cut: “Top\_CR”

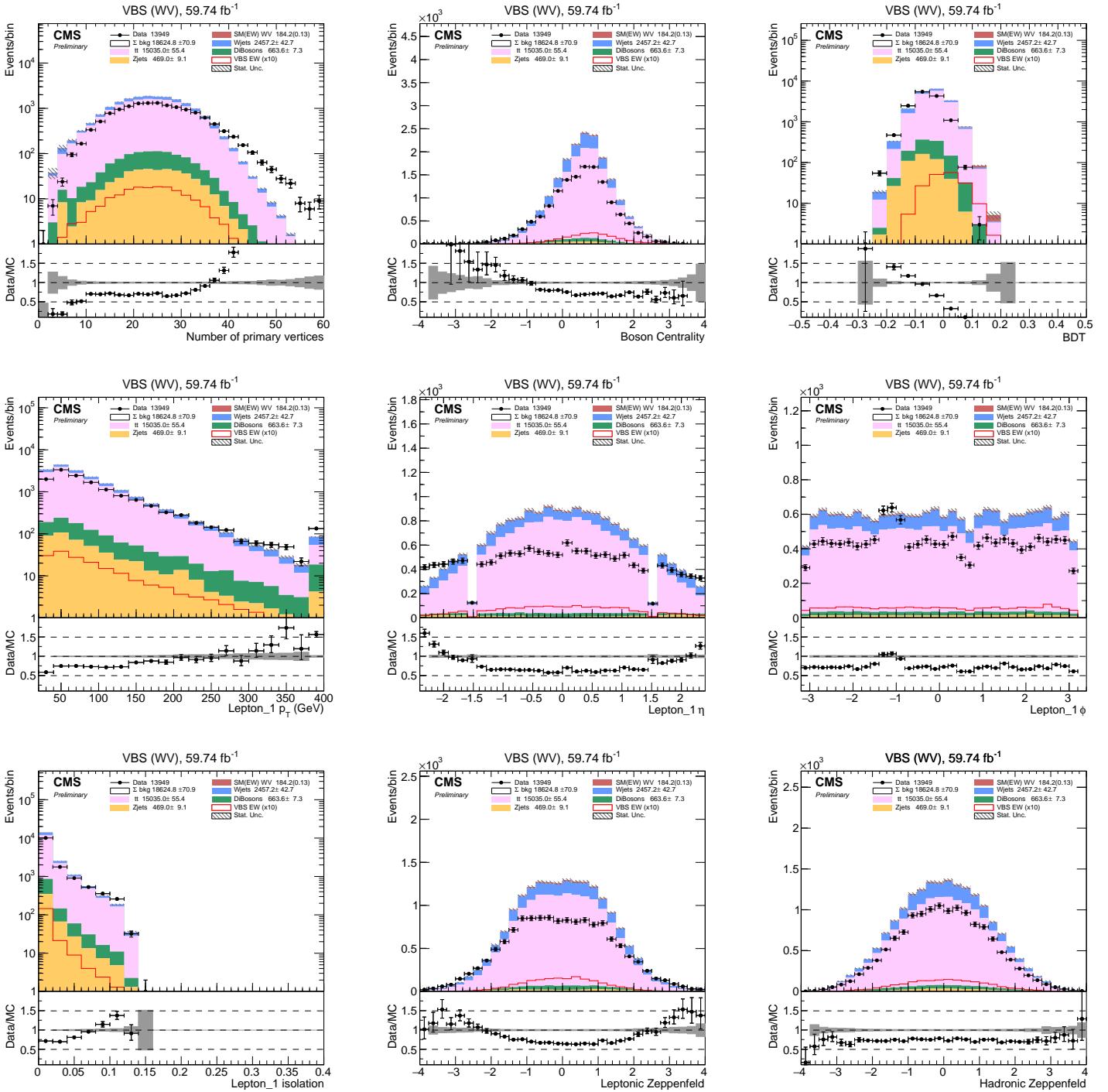


Figure 46: 2018 plot of c2 variables using cut: “Top\_CR”

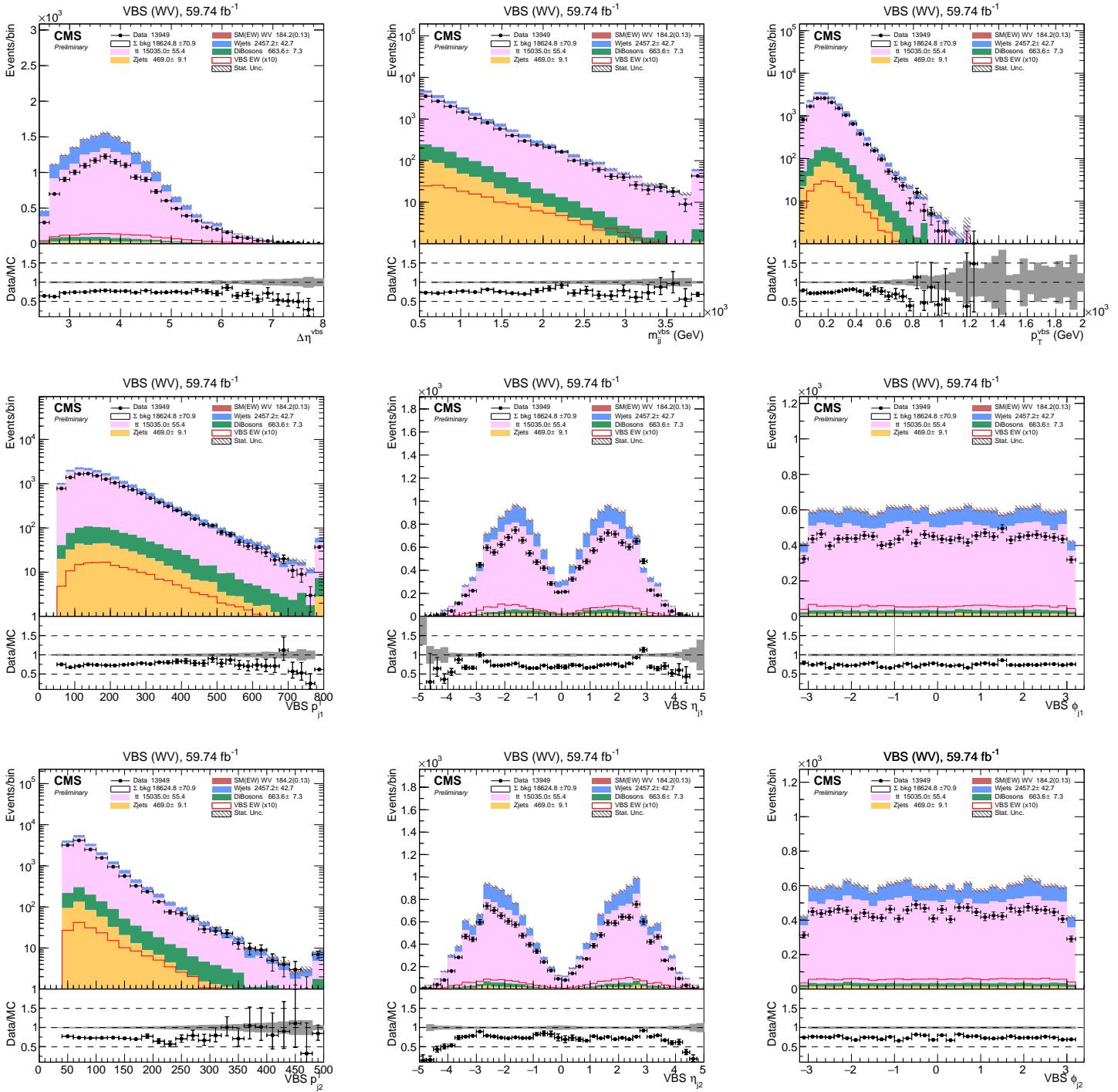


Figure 47: 2018 plot of c3 variables using cut: “Top\_CR”

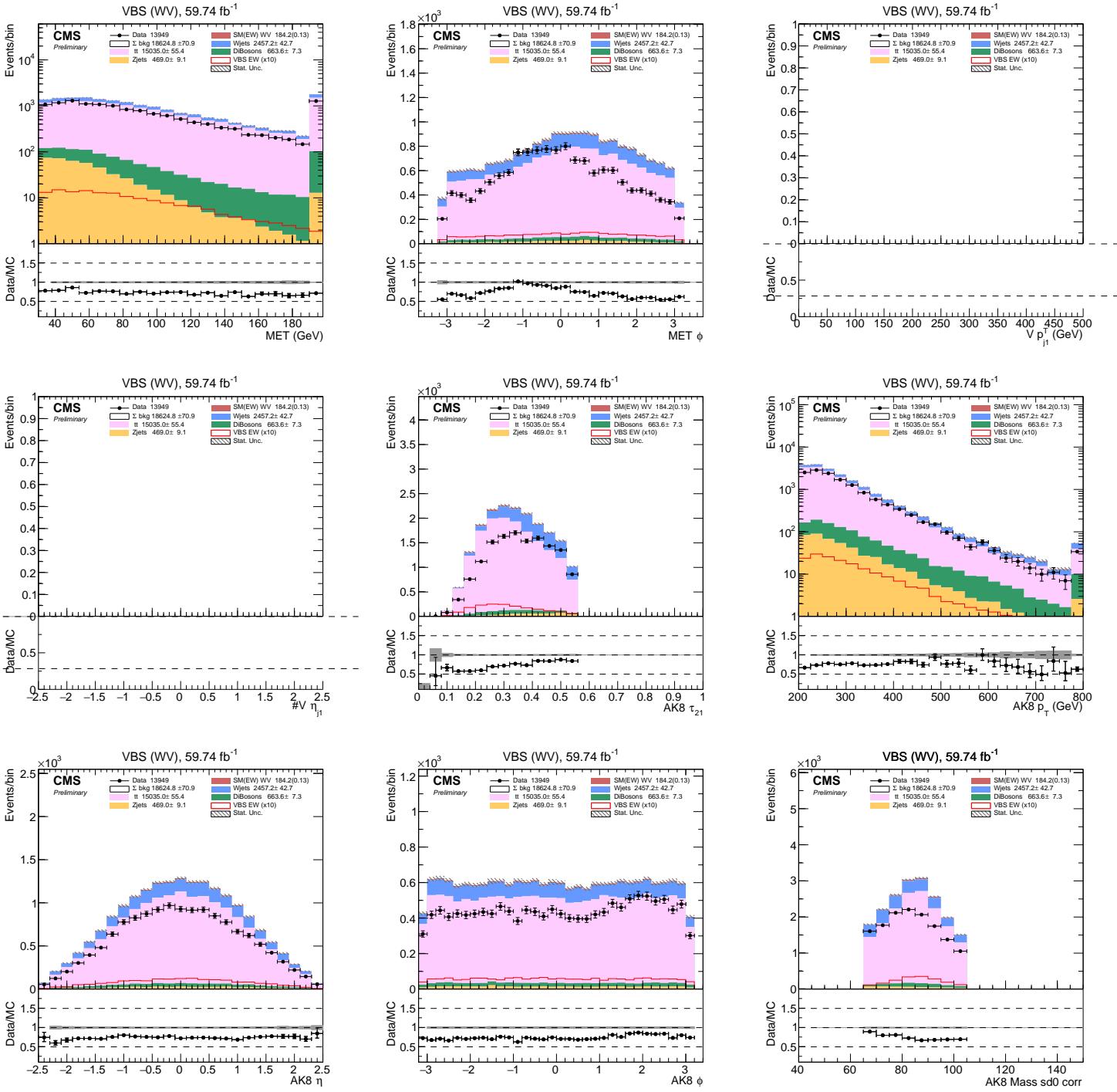
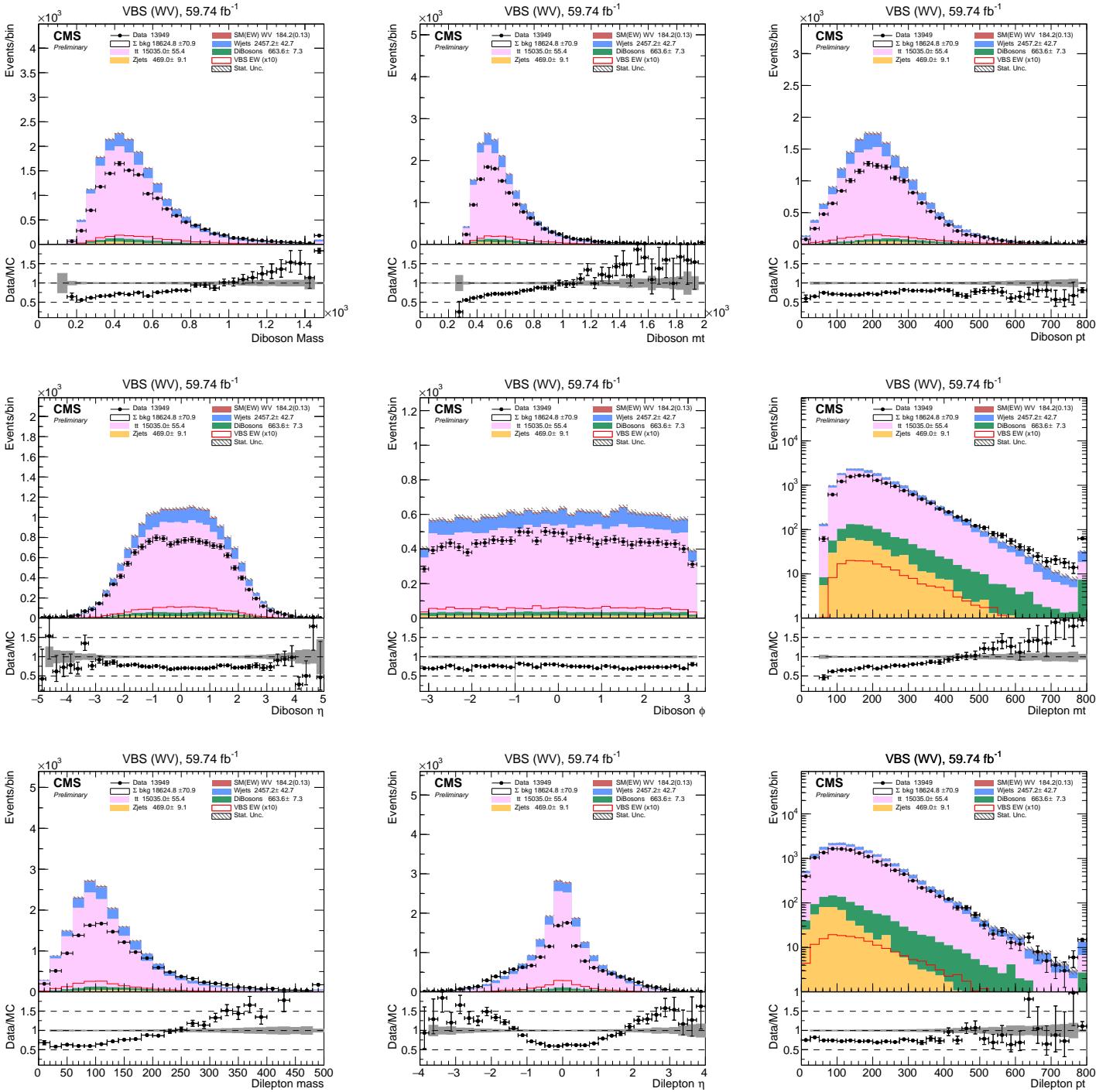


Figure 48: 2018 plot of c4 variables using cut: “Top\_CR”



## Wjets\_CR

Figure 49: 2018 plot of c1 variables using cut: “Wjets\_CR”

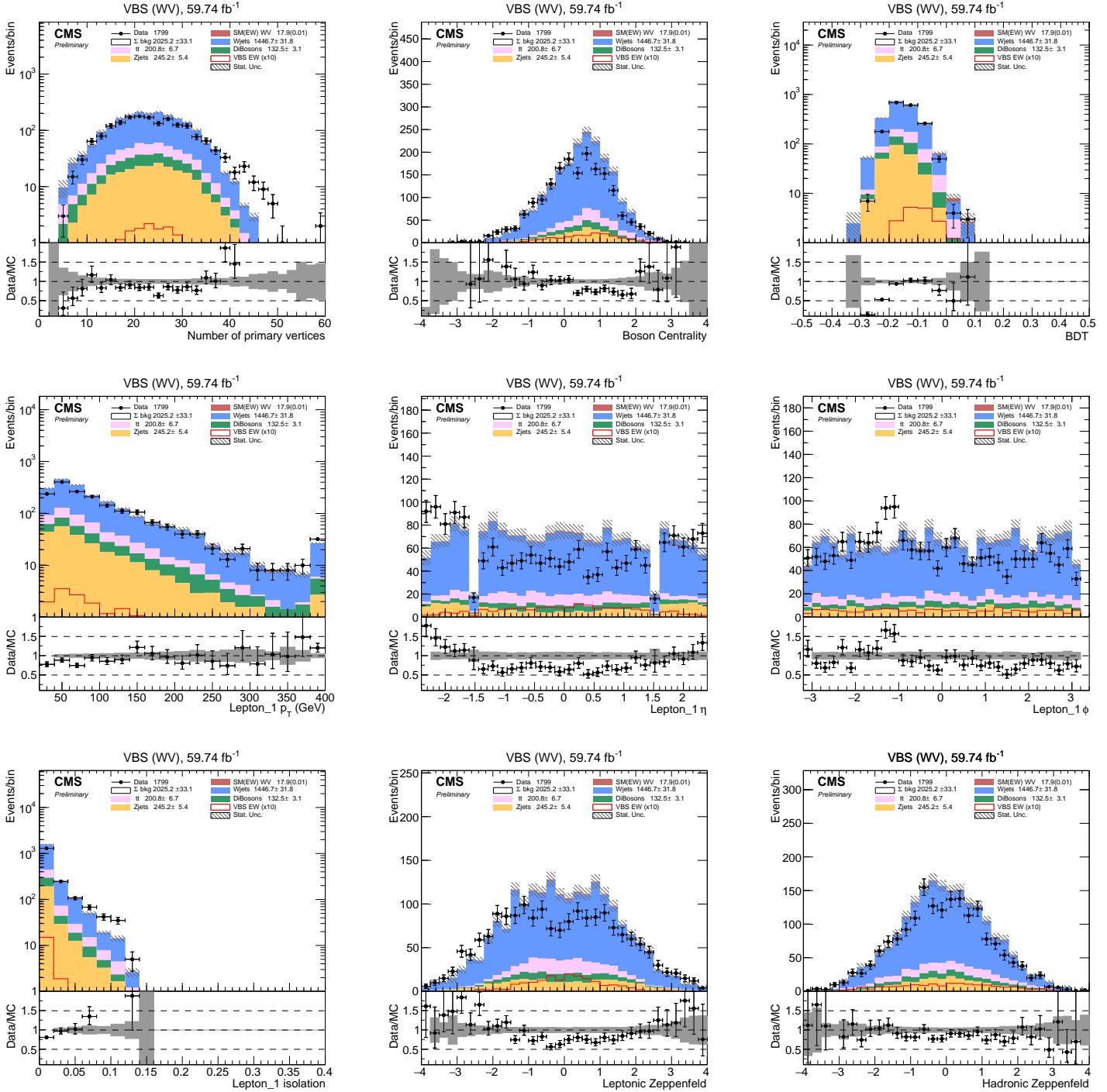


Figure 50: 2018 plot of c2 variables using cut: “Wjets\_CR”

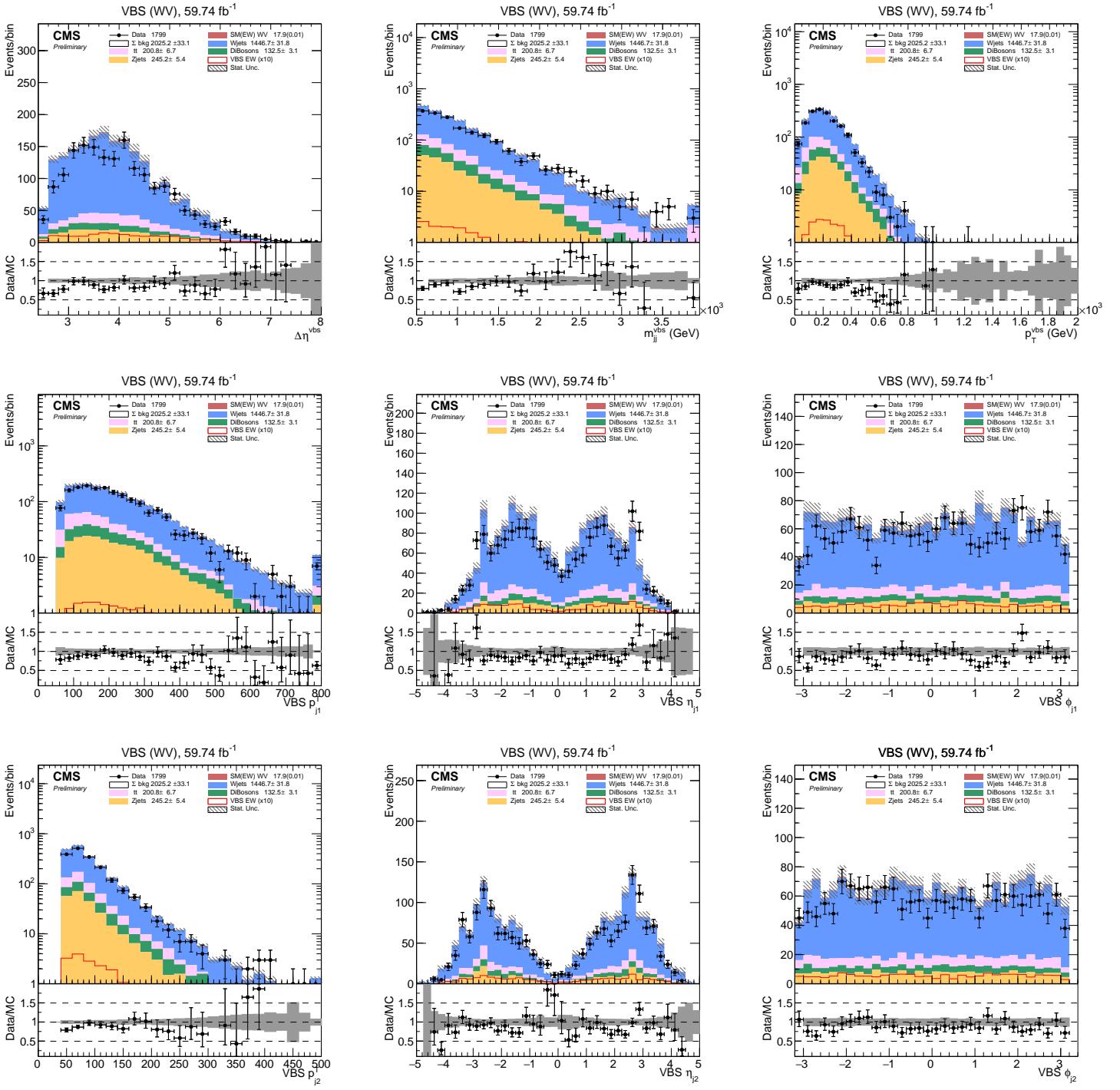


Figure 51: 2018 plot of c3 variables using cut: “Wjets\_CR”

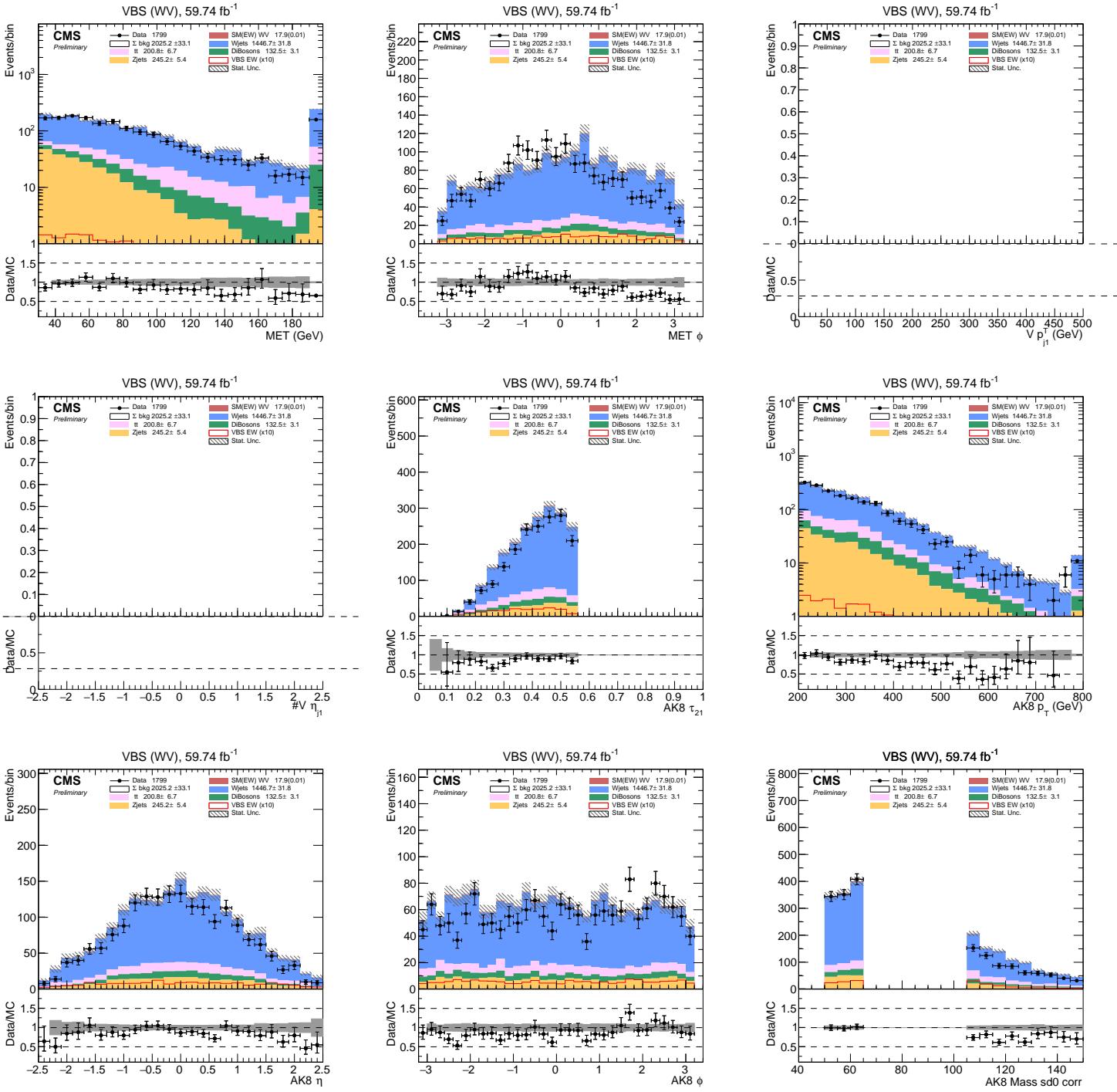
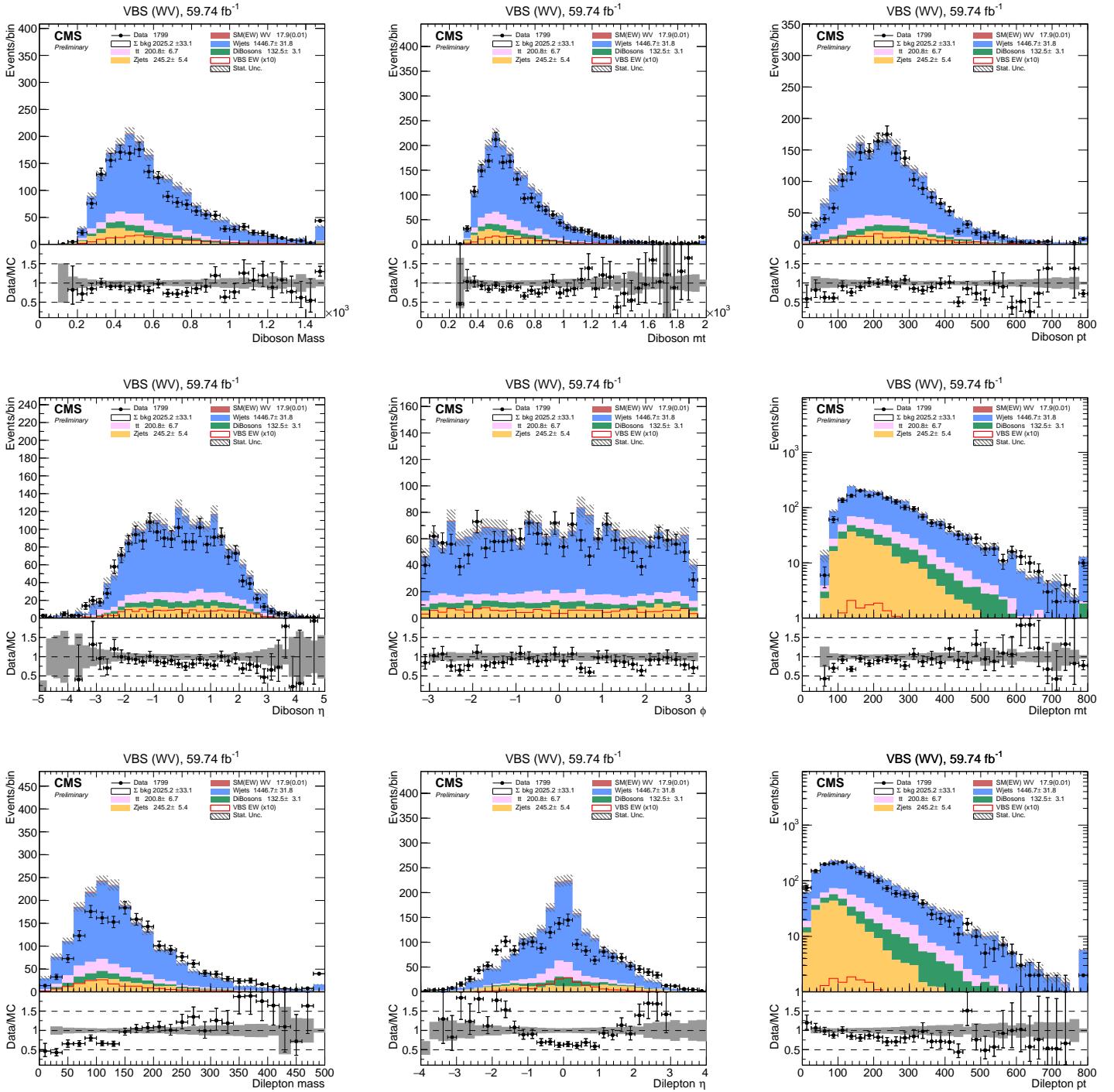
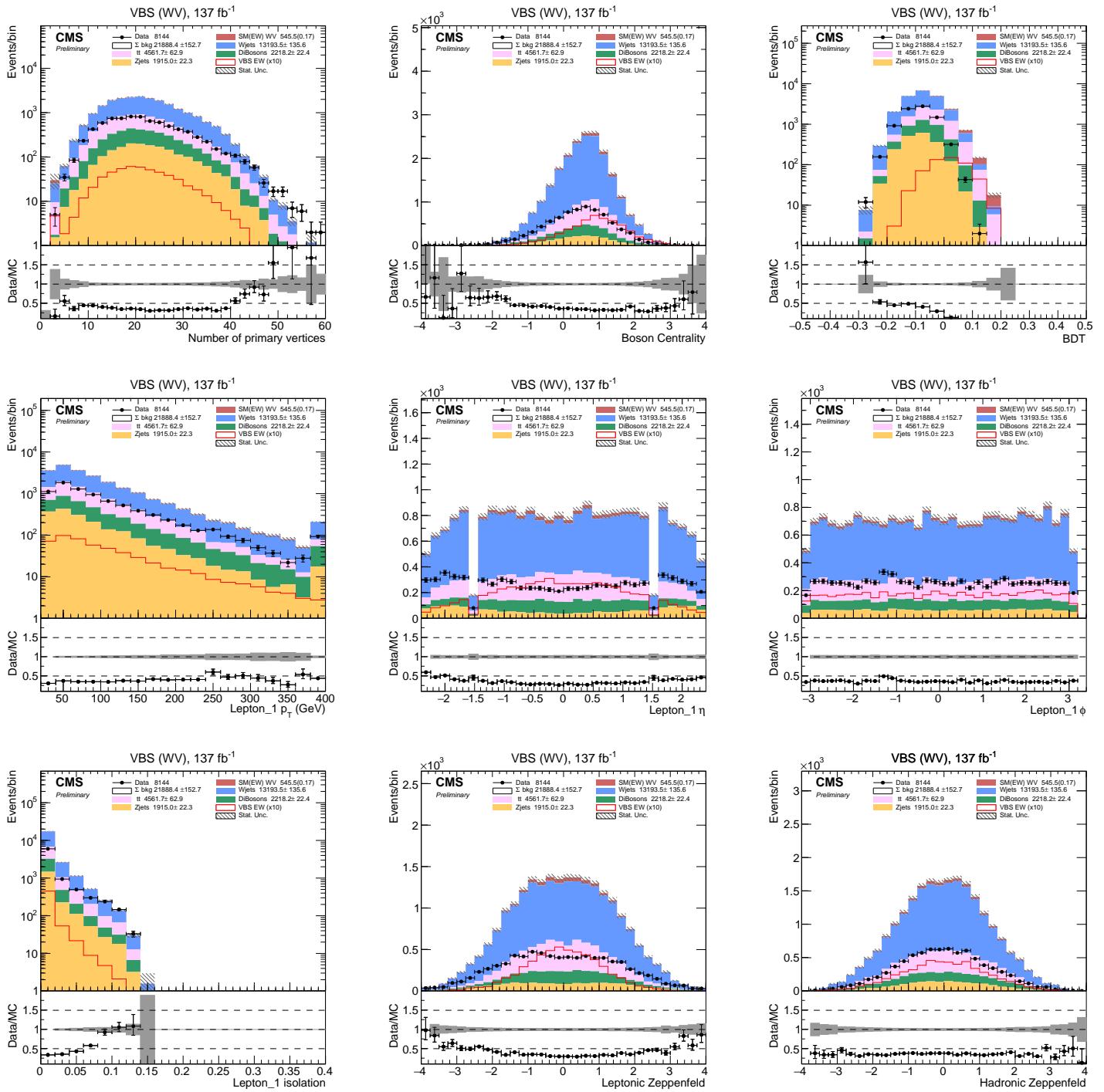


Figure 52: 2018 plot of c4 variables using cut: “Wjets\_CR”



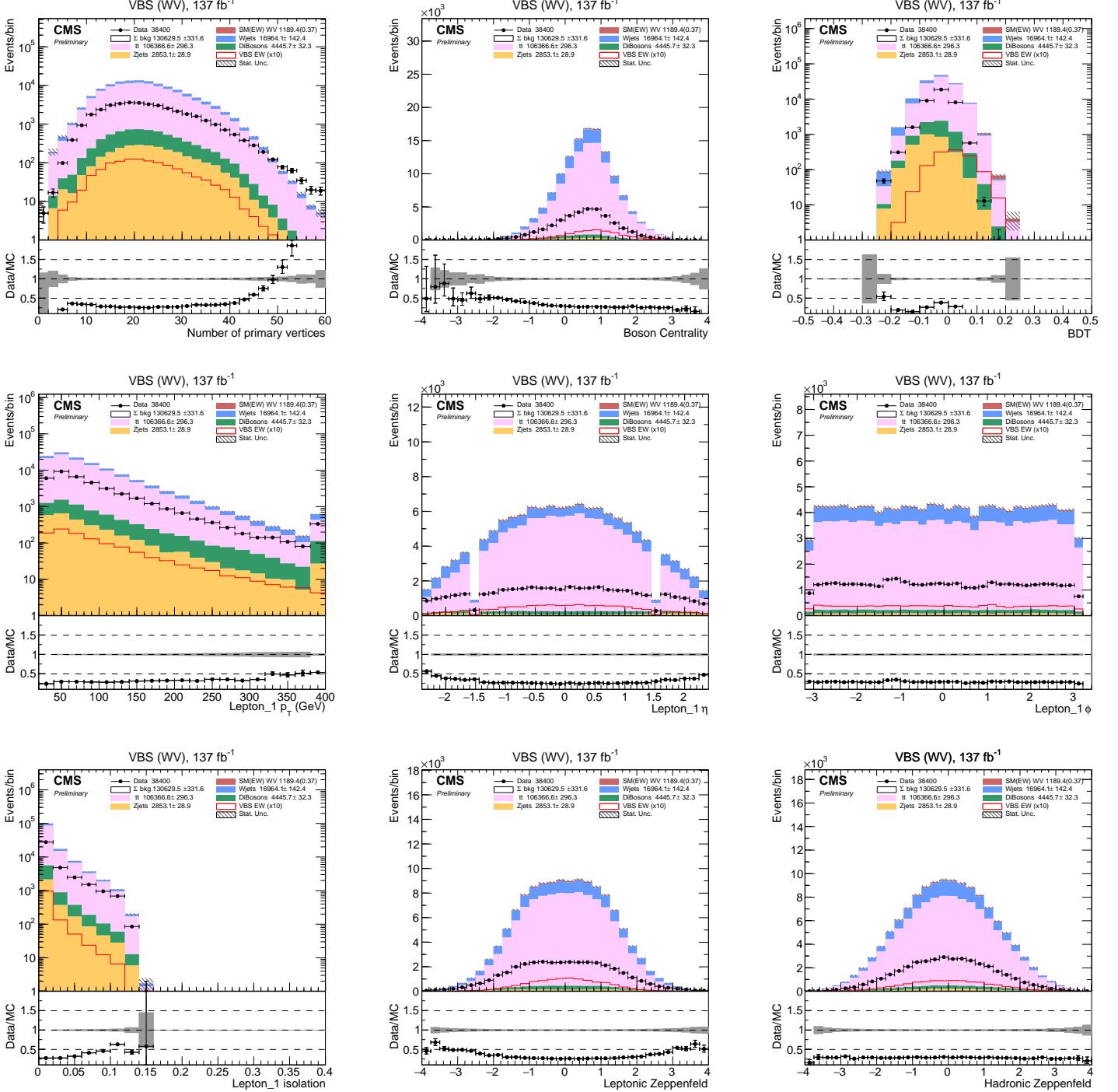
# Full SR Run2

Figure 53: Run 2 plot of some variables using cut: “Full\_SR”



# Top CR

Figure 54: Run 2 plot of some variables using cut: “Top-CR”



# Wjets CR

Figure 55: Run 2 plot of some variables using cut: “Wjets-CR”

