

Our Problem is that instant loading is only going up to 0.7A load with our SMPS Developed with TI Webench Tool . We want to operate our SMPS up to nearly 2.5A(Approx.2.4A) instant load. Please kindly give a solution to avoid this problem. Please find the different waveforms obtained in our SMPS schematics Testing are given below.

**Tested at Vinput=224V AC Supply**

**SMPS Waveforms At No Load Condition**

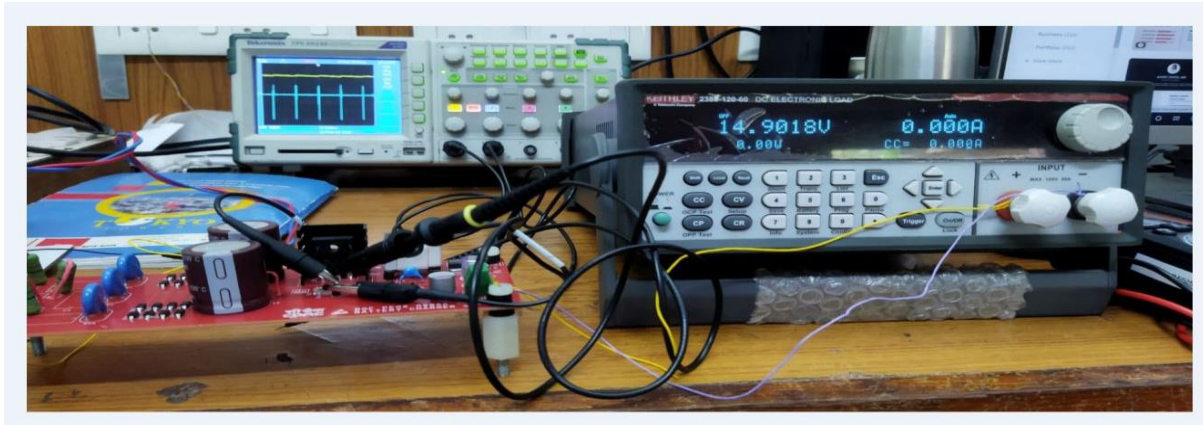


Figure1: SMPS PCB board and Electronic load under No load condition

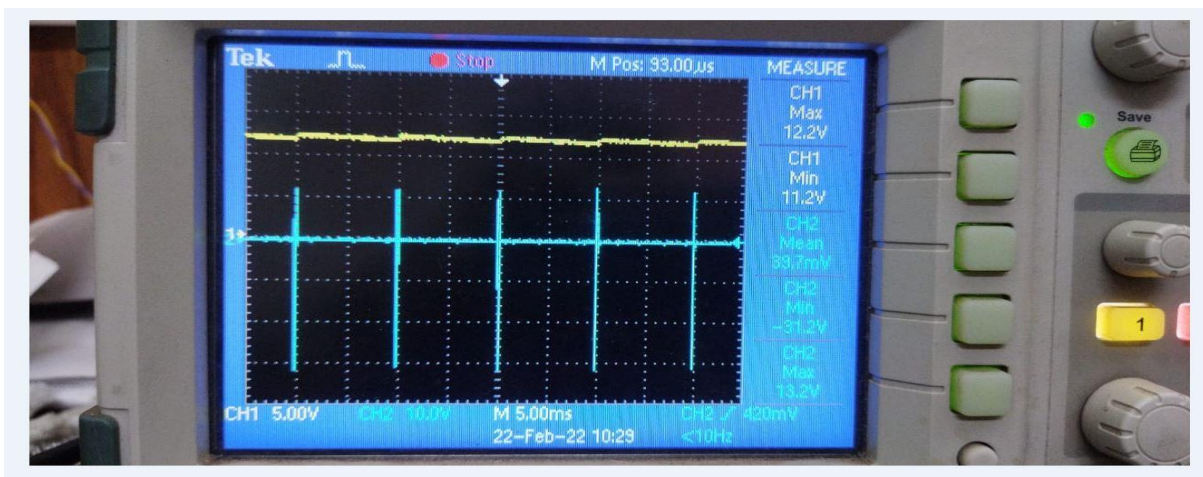


Figure 2: VCC and Vauxiliary Waveforms SMPS under No load condition.Channel1(Yellow):VCC and Channel2(Blue):Vauxiliary winding.

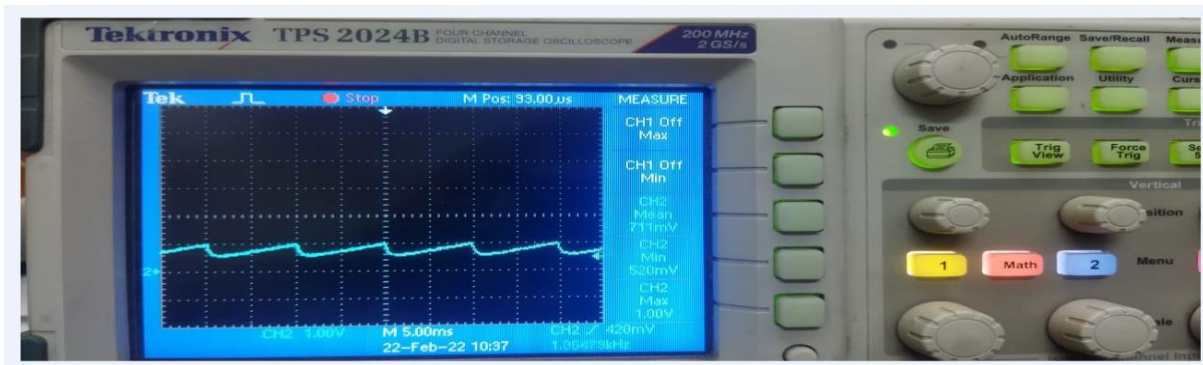


Figure 3: Vcomp Waveform of SMPS under No load condition.

## SMPS Waveforms At 0.5A load Condition

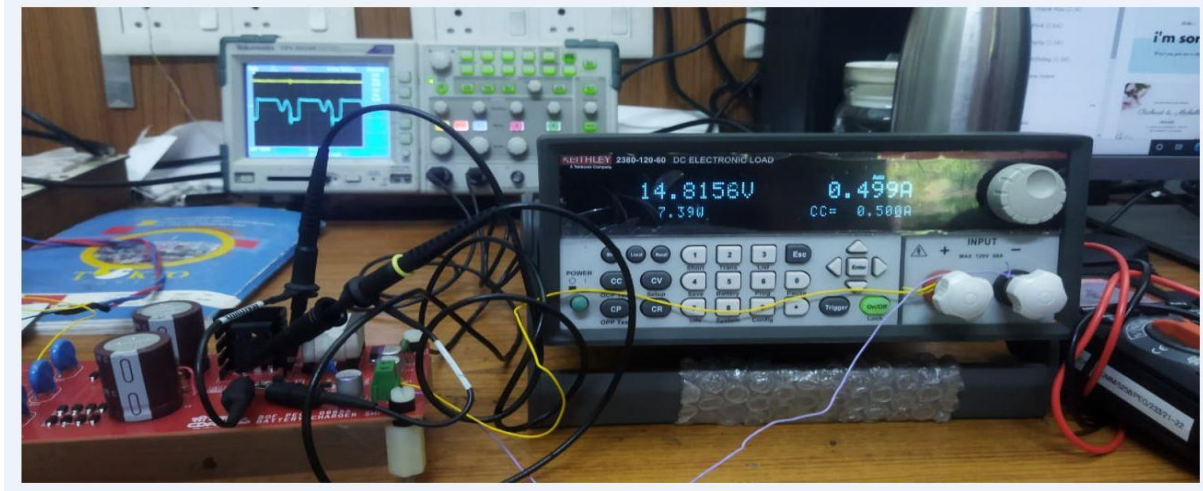


Figure 4: SMPS PCB board and Electronic load under 0.5A loaded condition.

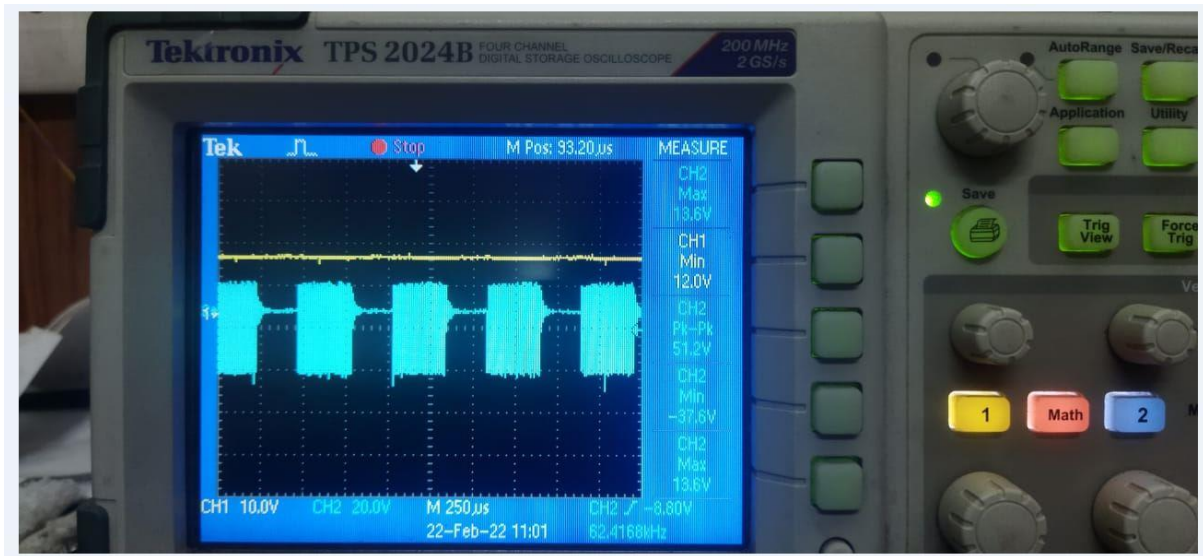


Figure 5: VCC and Vauxiliary Waveforms SMPS under 0.5A load condition. Channel1(Yellow):VCC and Channel2(Blue):Vauxiliary winding.

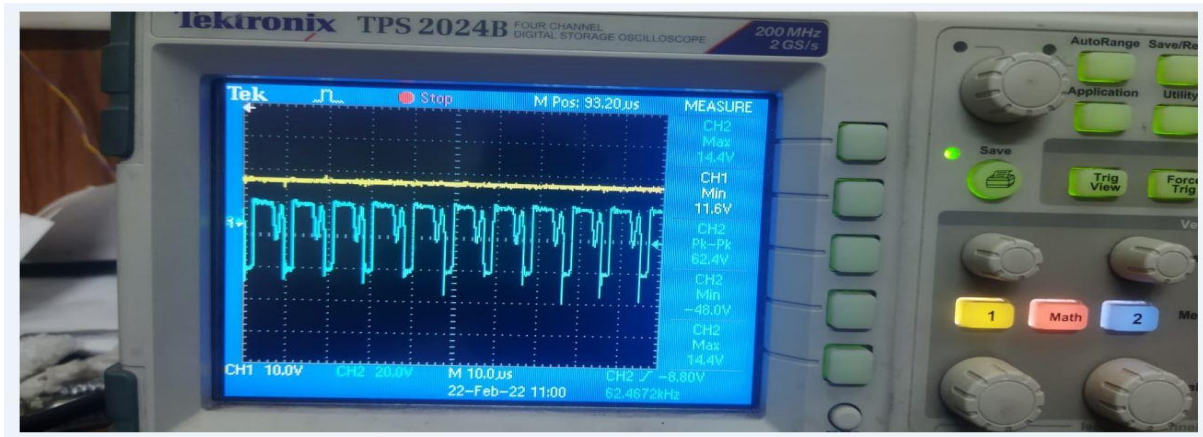


Figure 6: Zoomed View of Vauxiliary Waveform of SMPS under 0.5A load condition.

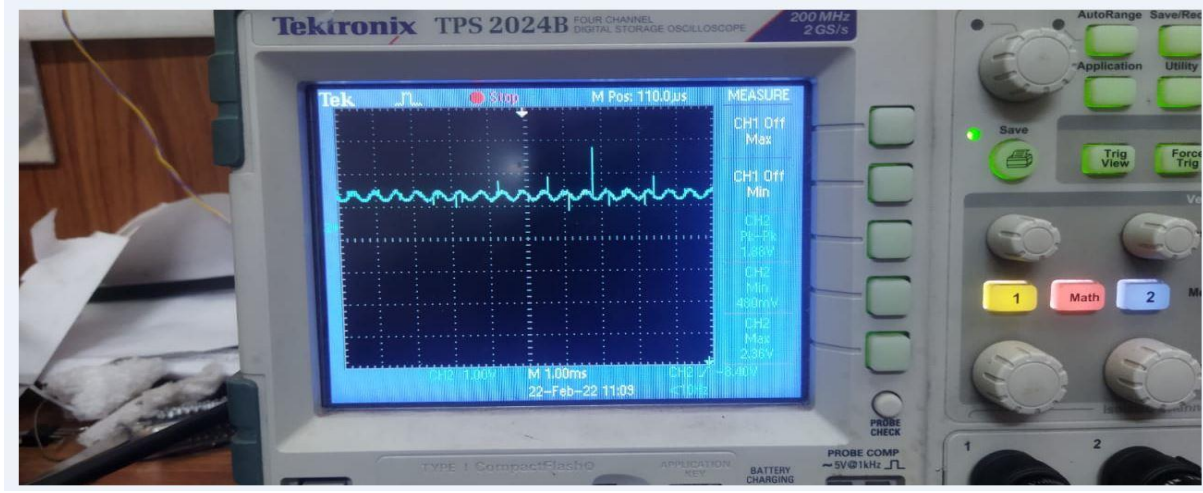


Figure 7: Vcomp Waveform of SMPS under 0.5A condition.

**SMPS Waveforms At 0.6A load Condition**



Figure 8: SMPS PCB board and Electronic load under 0.6A loaded condition.

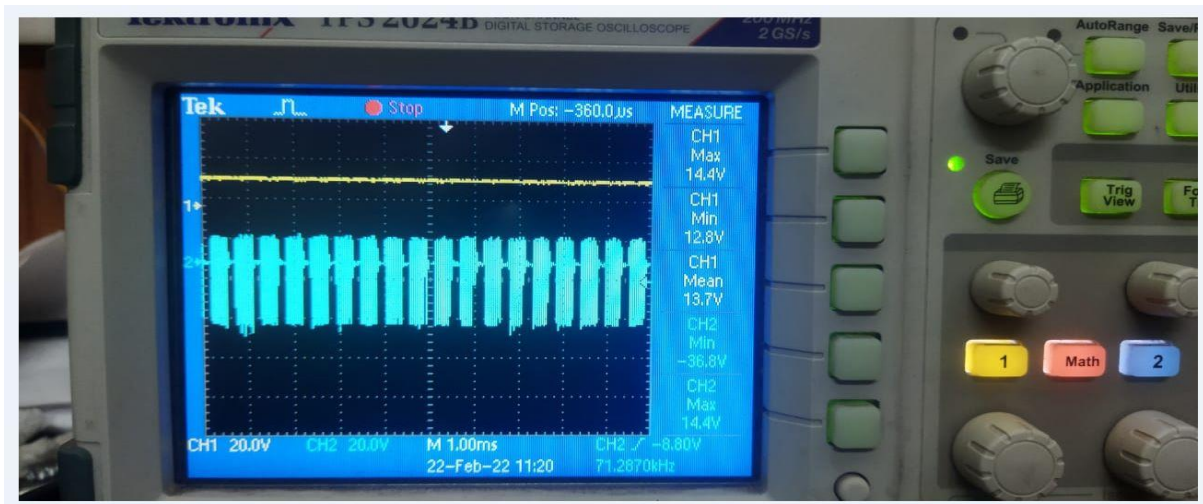


Figure 9: VCC and Vauxiliary Waveforms SMPS under 0.6A load condition. Channel1(Yellow):VCC and Channel2(Blue):Vauxiliary winding.

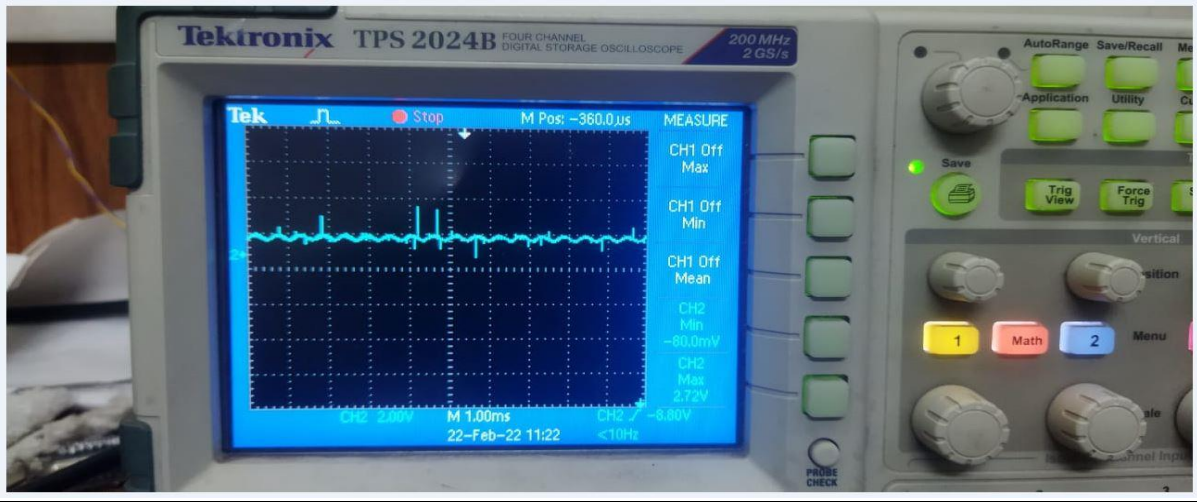


Figure 10: Vcomp Waveform of SMPS under 0.6A condition.

### SMPS Waveforms At 0.65A load Condition



Figure 11: SMPS PCB board and Electronic load under 0.65A loaded condition.

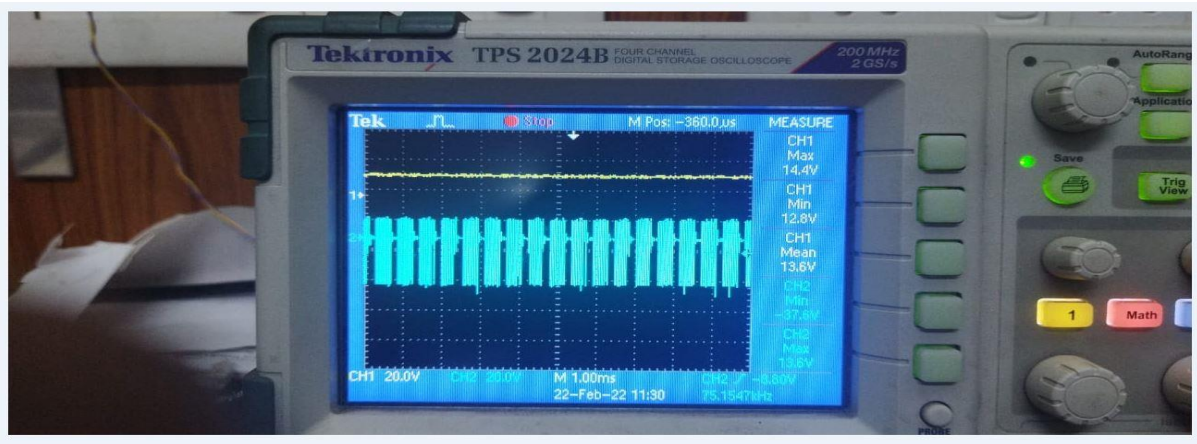


Figure 12: VCC and Vauxiliary Waveforms SMPS under 0.65A load condition. Channel1(Yellow):VCC and Channel2(Blue):Vauxiliary winding.

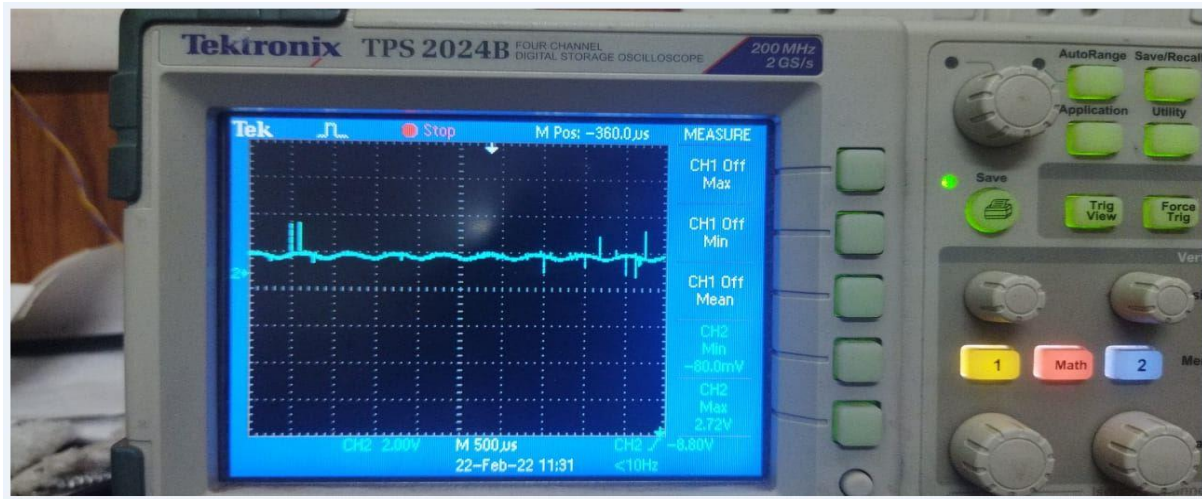


Figure 13: Vcomp Waveform of SMPS under 0.65A condition.

### SMPS Waveforms At 0.7A load Condition

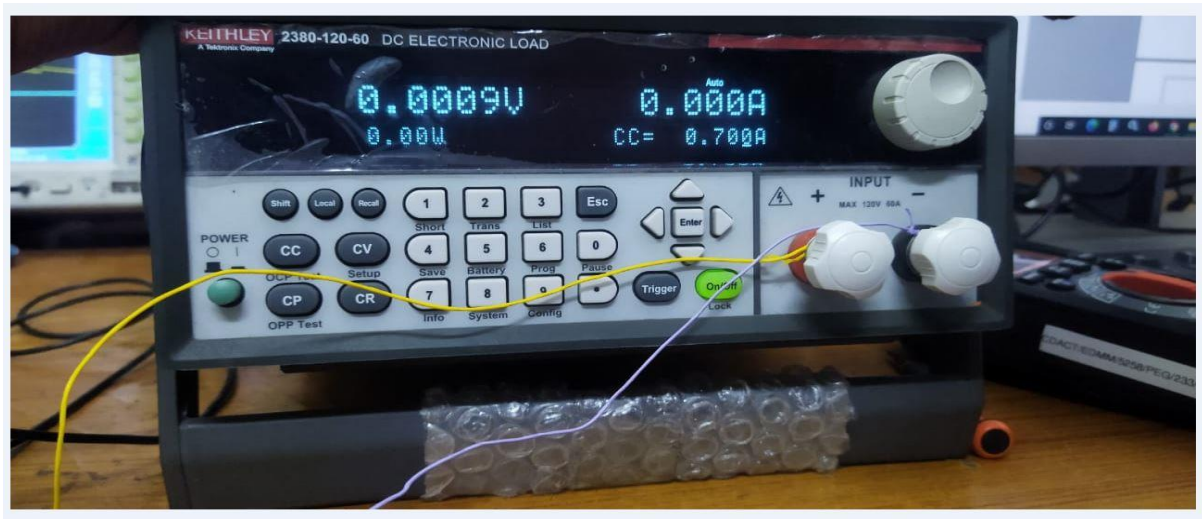


Figure 14: SMPS PCB board and Electronic load under 0.7A loaded condition.

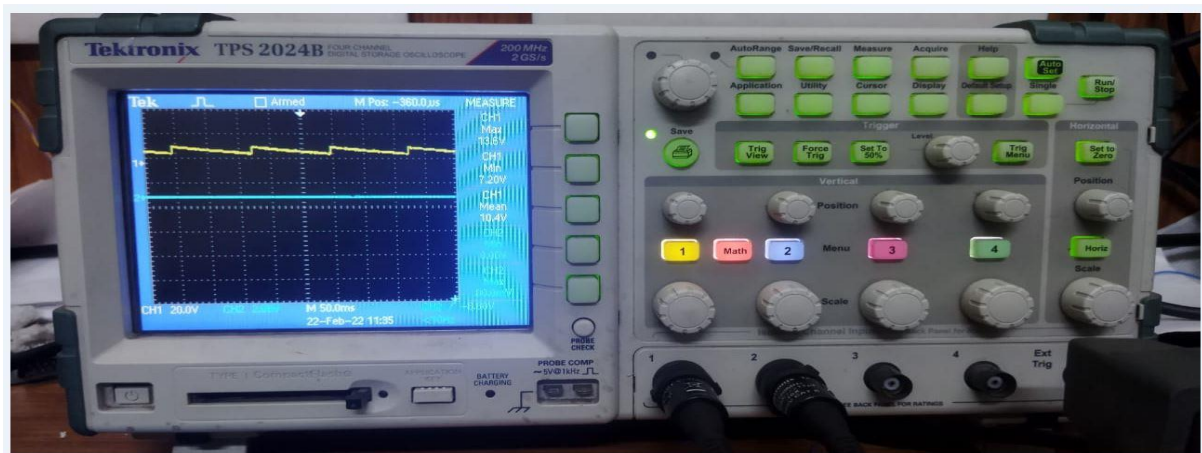


Figure 15: VCC and Vauxiliary Waveforms SMPS under 0.7A load condition. Channel1 (Yellow): VCC and Channel2 (Blue): Vauxiliary winding.

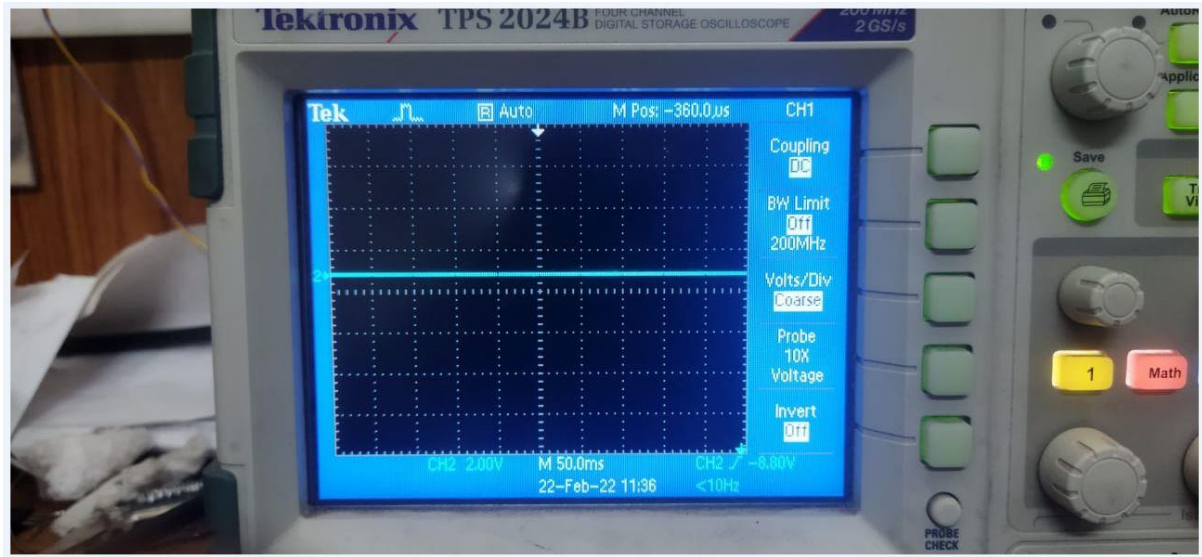


Figure 16: Vcomp Waveform of SMPS under 0.7A condition.