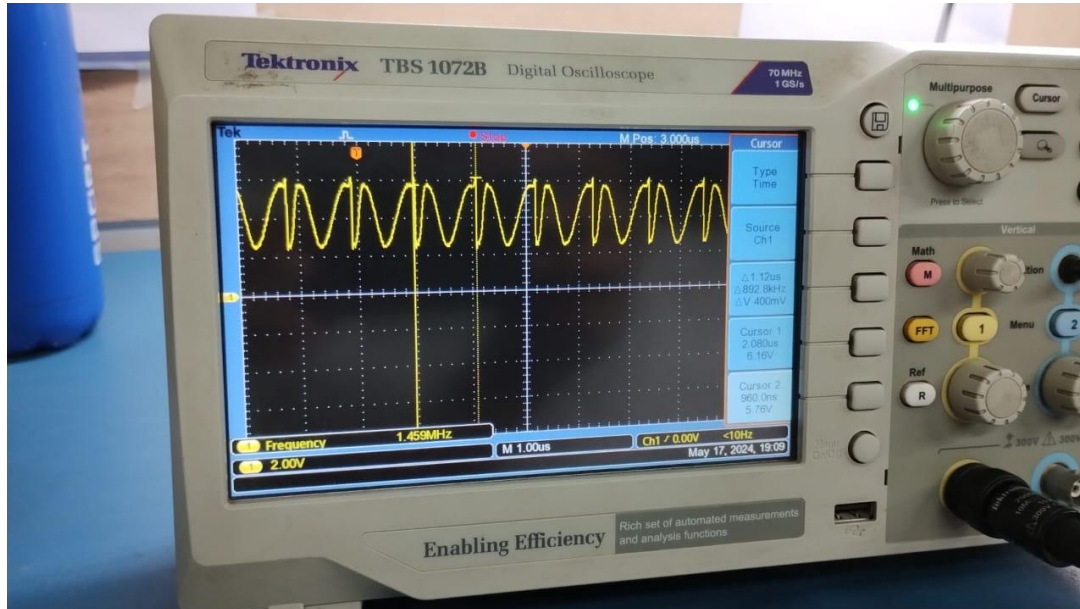


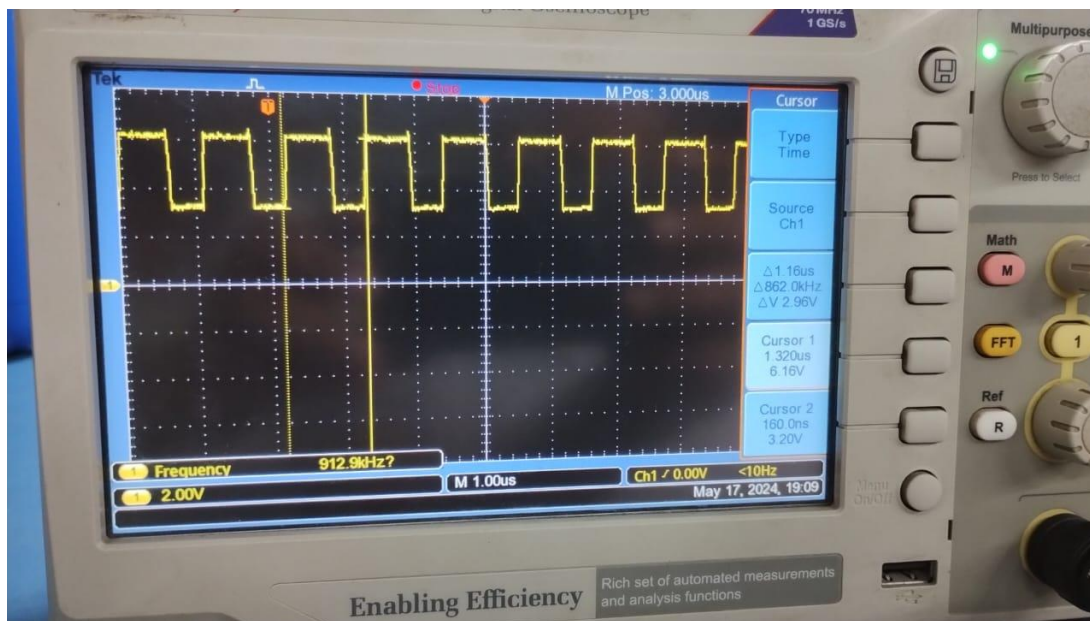
Waveforms of SW1, SW2, Vin, EN and Vout at that time.

### **Case 1 when Vin is 3.3V**

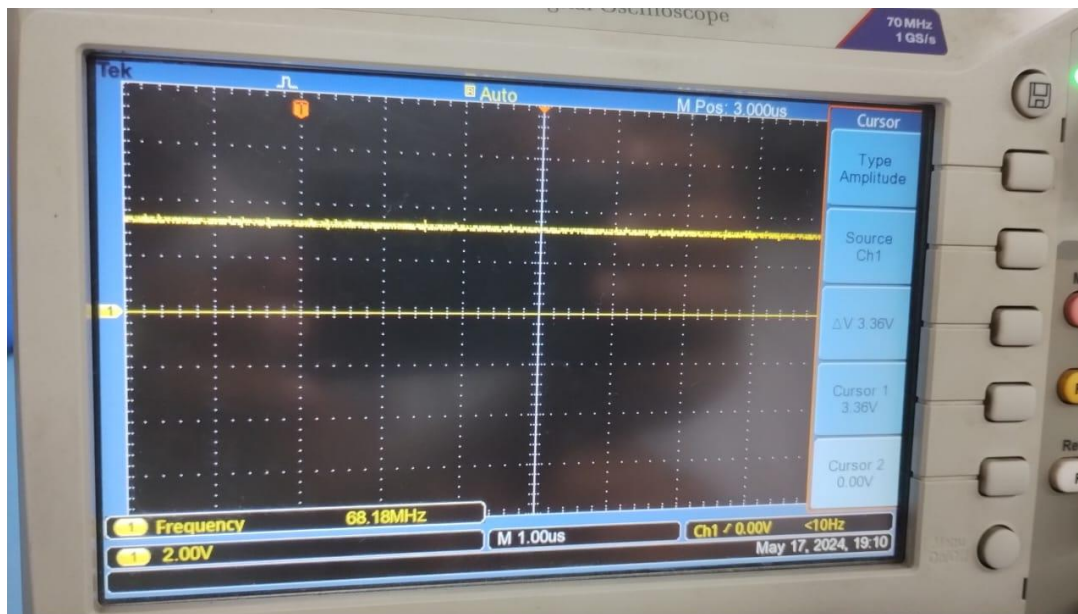
SW1(freq=892.8KHz)



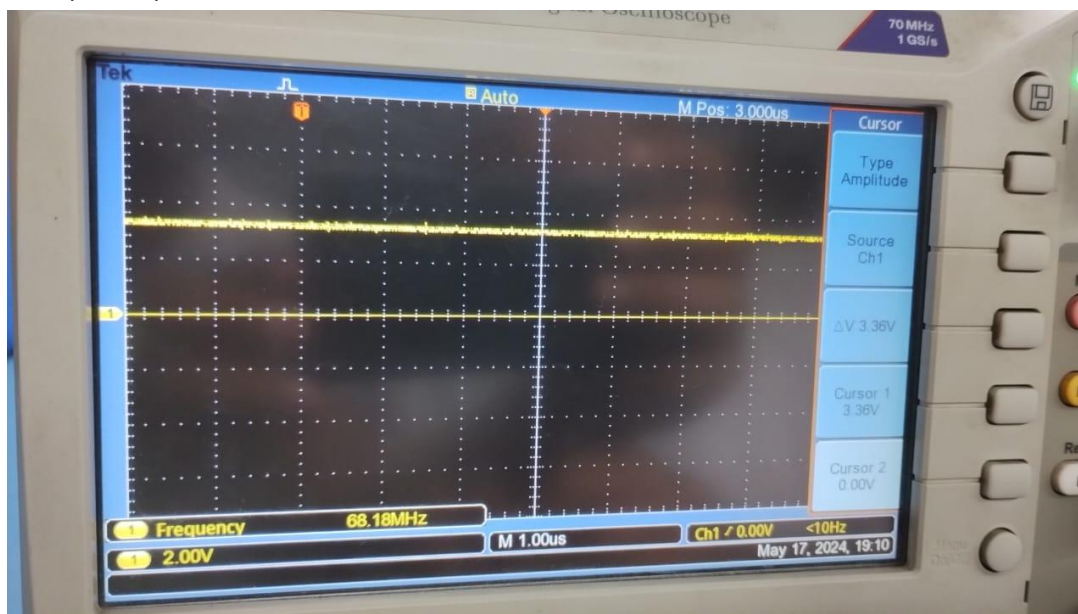
SW2 (freq= 862 KHz)



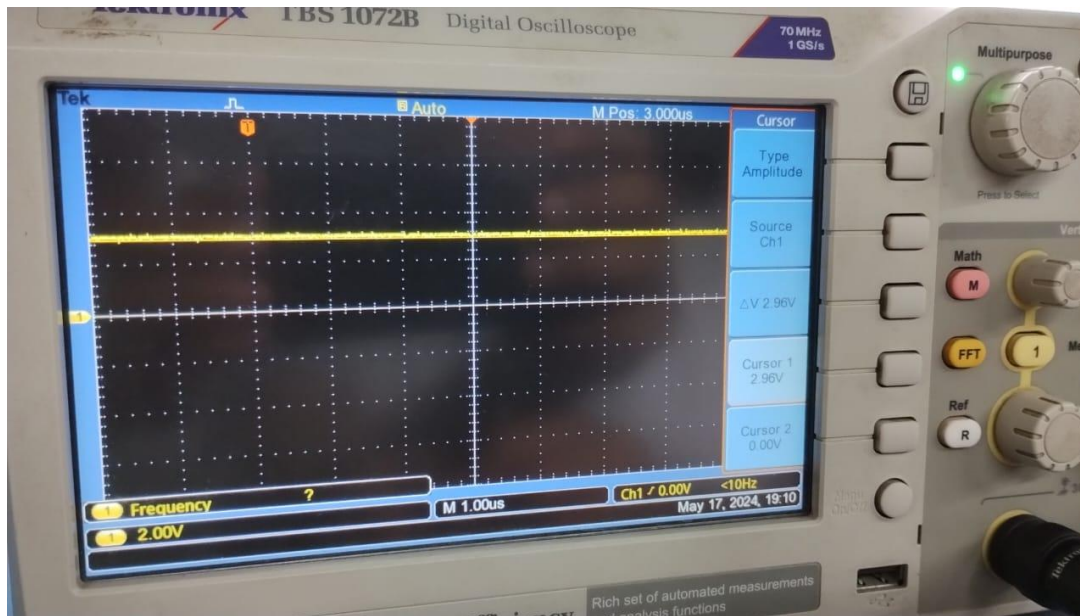
Vin (3.36V) [Vin and Ven both are same]



Ven (3.36V)

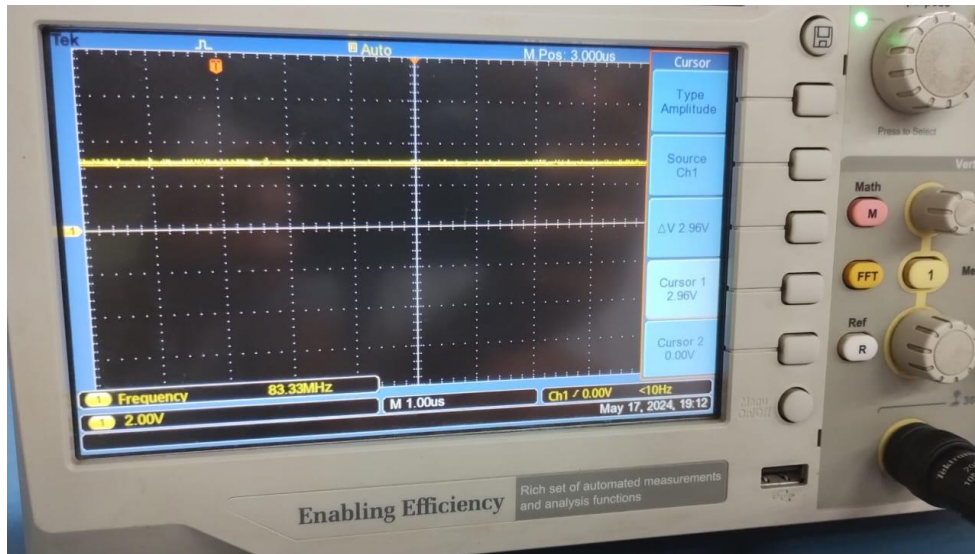


Vout is 2.96V

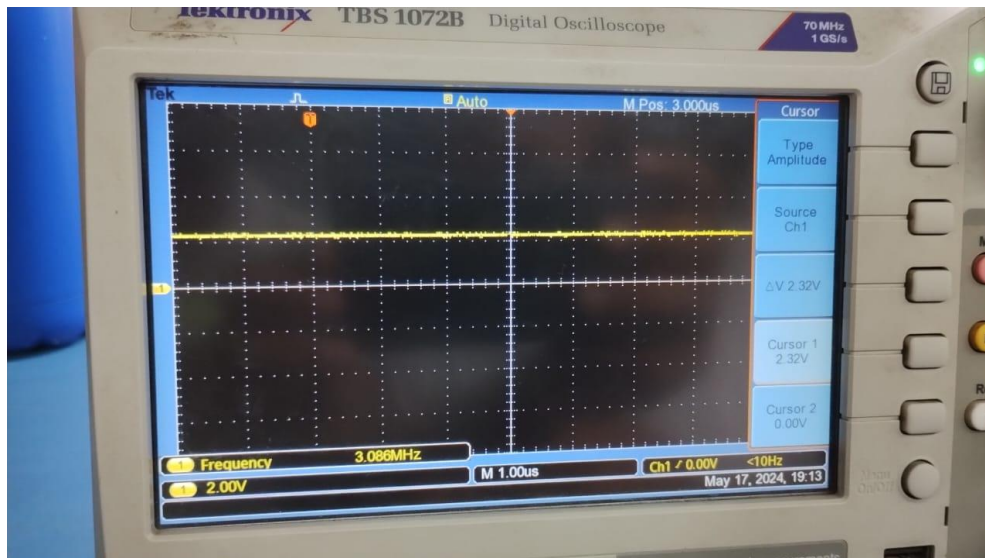


## Case 2 when $V_{in}$ is 3.1V

$V_{in}$  and  $V_{en}$  is same (3.1V)

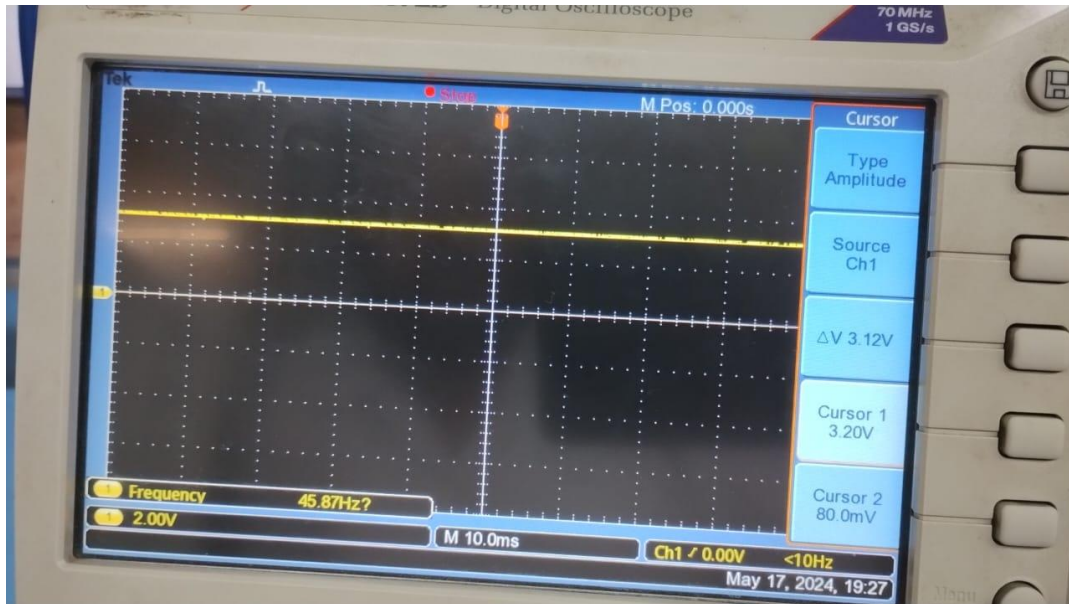


$V_{out}$  is 2.32V

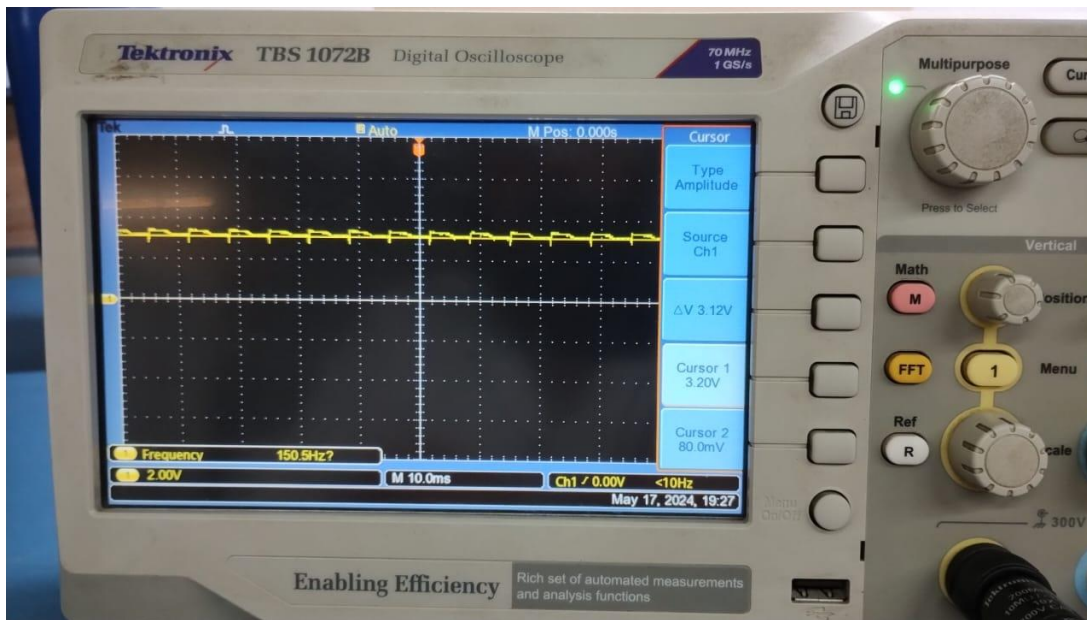


SW1, SW2 are same as previous

VCC (=3.12V) for Buck case ( $V_{in} = 3.5V$ )



VCC (=3.12V with noise) for Boost ( $V_{in} = 3.3V$ )



VCC (=2.88V with noise) for Boost ( $V_{in} = 3.1V$ )

