Connected an electronic load to the BQ24296 and measured VSYS, VBus, VSW, IBat for various DC loads. All BQ24296 settings are default. ILim = 2 A.

With:

Iload = 1.56A, Vadaptor = 5 V, VBAT = 4.15 V

|  |  |  |
| --- | --- | --- |
| VSYS | 4.26 | V |
| VBUS(at bq24296) | 4.66 | V |
| IBus | 1.54 | A |
| I BAT | 0 | A |



Ch1: VSYS, Ch2: VBus, Ch3: IBat

Notice the oscillations on VSYS



Ch1: VSW, Ch3: IBat

Noticed the switch node not switching all the time