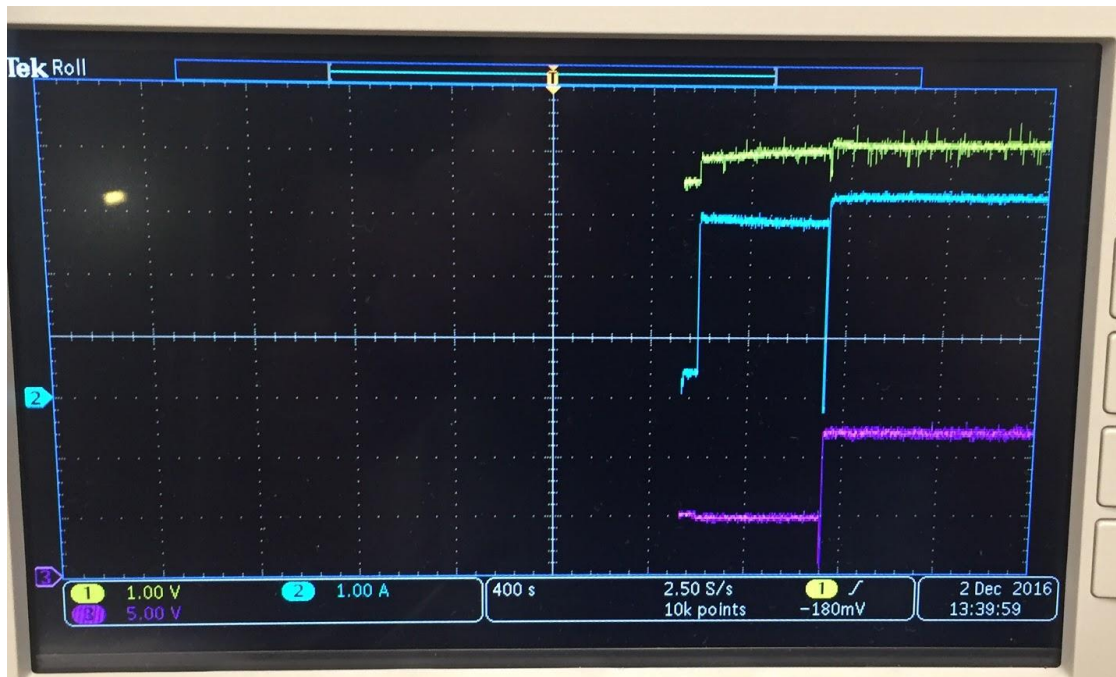


Legend:

Yellow: Battery voltage

Light blue: Charge current

Pink: Voltage at the input of the charger IC (VBUS)



As you can see, VBUS is at 5V when the system is booted from a depleted battery and when the cable is unplugged and re plugged, VBUS is at 12 V and charge current is at 3.5A as desired.