## **Test Procedure for the NCV8664 Evaluation Board**





### 5.16.2007

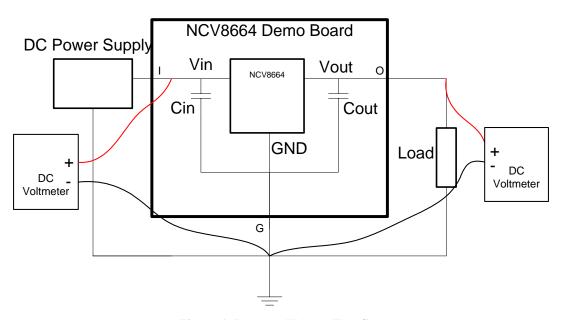
Table of required equipment:

Measurement equipment description	Concrete example	Quantity
Resistive Load	Agilent 6060B	1
Multimeters	Keithley 2000	2
NCV8664 Demo Board	-	1
DC Power Supply	Agilent 6812B	1

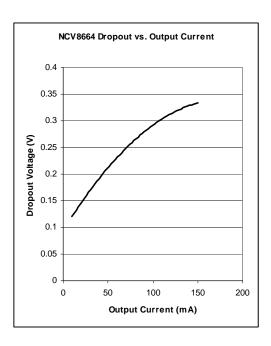
Please follow these steps during the first start of the NCV8664 evaluation board:

#### **Dropout Voltage Verification Steps**

- 1. Connect circuit as shown in Figure 1.
- 2. Set Vin= 13.5 V, Record Vout.
- 3. Reduce Vin until Vout has dropped by 100mV.
- 4. Subtract Vout from Vin. Resulting Voltage is Dropout Voltage.



**Figure 1- Dropout Voltage Test Setup** 



# **Quiescent Current Verification Steps**1. Connect circuit as shown in Figure 3.

- 2. Set Vin= 13.5 V.
- 3. Subtract Output Current from Input Current.

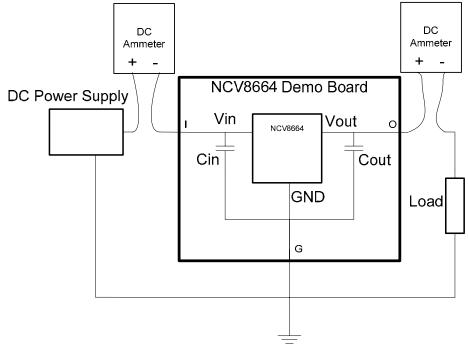
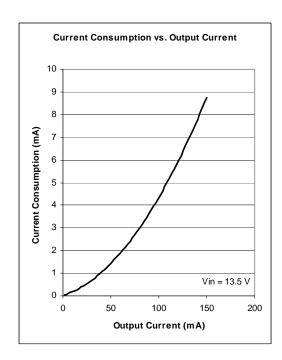


Figure 3. Quiescent Current Verification Setup



#### **Output Voltage Verification Steps**

- 1. Connect circuit as shown in Figure 4.
- 2. Set output load to 100 Ohms, Set Vin= 0 V, Record Vout.
- 3. Increase Vin, measure Vout.

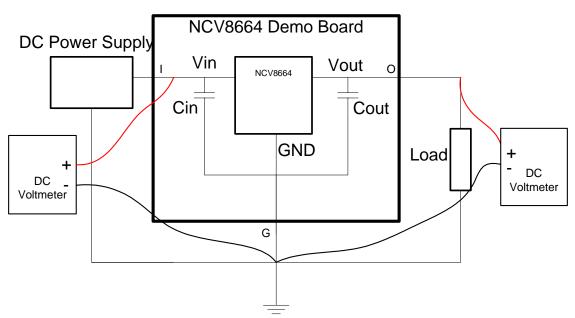


Figure 4. Quiescent Current Verification Setup

