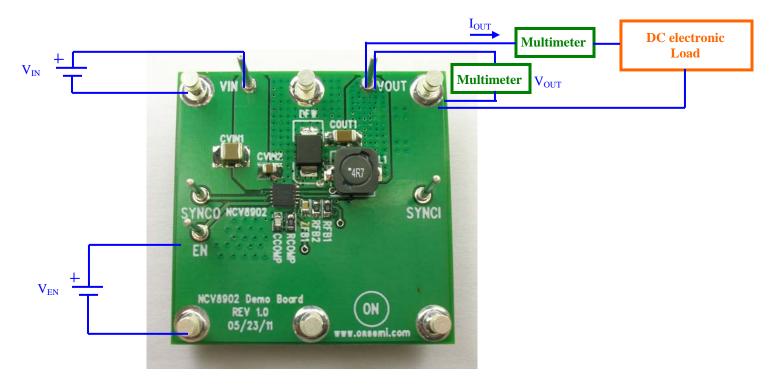# Test Procedure for the NCV8902 DEMO BOARD REV 1.0

Required Equipment

2 x DC voltage source
1 x DC electronic load
2 x Multimeters

Test Procedure:

1. Connect the test setup as shown above.

2. Make sure the load is not enabled.

3. Apply an enable voltage V_{EN}=0V. Apply an input voltage, V_{IN} = **13.2 V**. *V_{OUT} should be 0V*.

4. Apply an enable voltage V_{EN}=**3V**. Verify that the *output voltage is 3.3 V +/-0.15 V*.

5. Set up the **load to 1.2A** and **enable** it. Verify that the *output voltage is still 3.3 V +/-0.15 V*.

6. Change the **input voltage to 36 V**. Verify that the *output voltage is 3.3 V +/-0.15 V*.

7. Change the **input voltage to 6 V**. Verify that the *output voltage is 3.3 V +/-0.15 V*.

8. Change the **input voltage to 3.9 V**. Verify that the *output voltage is 0 V*.

9. Change the **input voltage to 6 V**. Verify that the *output voltage is 3.3 V +/-0.15 V*.

10. Apply an enable voltage V_{EN}=**0V**. *V_{OUT} should be 0V*.

11. Turn off the DC sources.