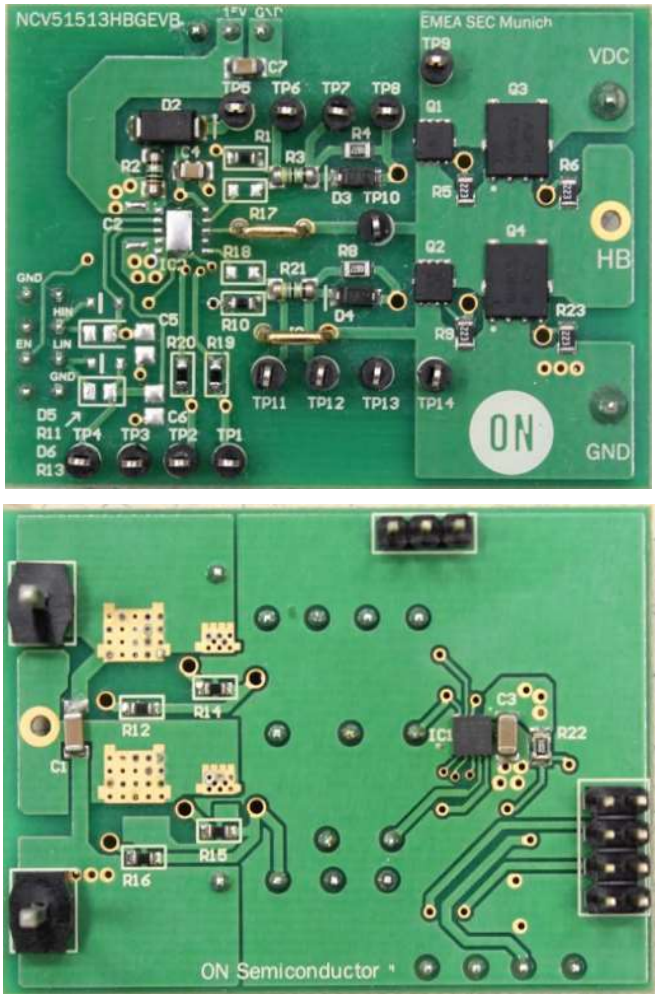
Test procedure

1. Step – Visual inspection

   Check for mechanical damages, component displacement and PCB cracks



2. Step – Supply board with 15V. Use connection shown on following photo

Connectors' pins are on bottom side of the board.

3. Step – Apply input signals to the board, using connector on following photo

And check the outputs on following connections

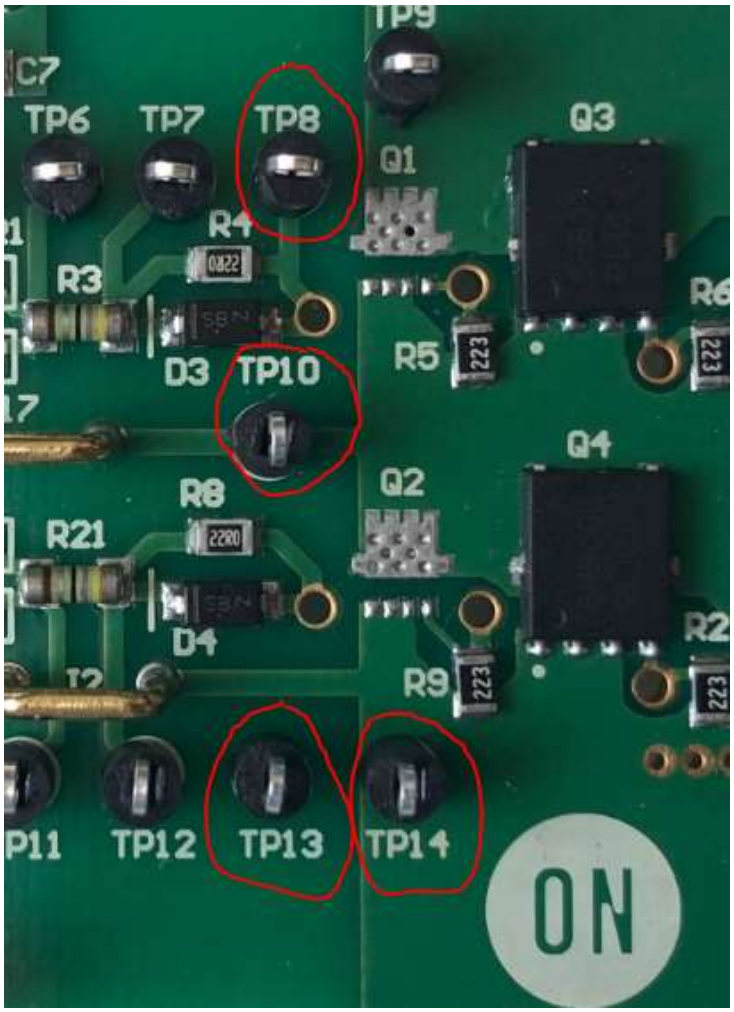
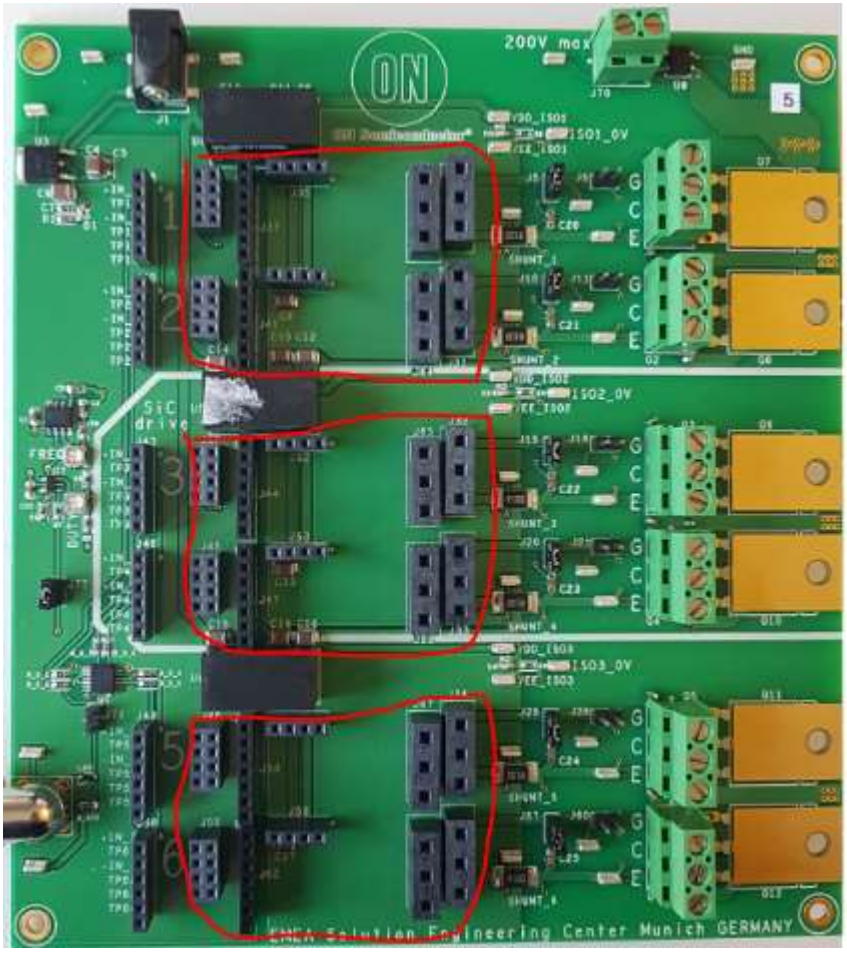


Table 1. Input/output lookup table
Measured using digital multi-meter or oscilloscope.

Input signal	Output signal
5V between HIN and GND	15V between TP8 and TP10 0V between TP13 and TP14
5V between LIN and GND	0V between TP8 and TP10 15V between TP13 and TP14
No signals applied	0V between TP8 and TP10 0V between TP13 and TP14
5V between HIN and GND 5V between LIN and GND	15V between TP8 and TP10 15V between TP13 and TP14

Test procedure using Gate driver baseboard



1. Step – place NCV51513HBGEVB board on baseboard in any of three possible positions
2. Step – supply baseboard with 15V using J1 connector
3. Step - measure output signals between TP8 and TP10 using differential oscilloscope probe (output signal should be PWM with frequency and duty cycle defined on baseboard, with amplitude 15V or 20V for middle position on baseboard)
4. Step – measure output signals between TP13 and TP14 using oscilloscope probe (output signal should be PWM with frequency and duty cycle defined on baseboard, with amplitude 15V or 20V for middle position on baseboard)