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## **Calibration Certificate**

| Model number:     | 100B      |       |         |  |
|-------------------|-----------|-------|---------|--|
| Serial number:    | 2003      |       |         |  |
| Calibration date: | 12/1/2014 | time: | 5:22 PM |  |
| Operator Number:  | 1         |       |         |  |

## **Calibration Equipment Used**

| Manufacturer        | Model  | Description             | Tracking number | Cal Due Date |
|---------------------|--------|-------------------------|-----------------|--------------|
| Hewlett-Packard     | 8714C  | Vector network analyzer | 107             | 1/1/2015     |
| Hewlett-Packard     | 85052D | 3.5 mm cal kit          | 121             | 1/1/2015     |
| Hewlett-Packard     | 809C   | Slotted line            | ET102           | 6/15/2015    |
| Beehive Electronics | ET103  | Helmholtz coil          | ET103           | 6/15/2015    |

| Frequency (MHz) | Output power at 1 microtesla field strength (dBm) |
|-----------------|---|
| 1.000           | -78.73  |
| 10.000          | -60.32  |
| 30.000          | -51.32  |
| 100.000         | -41.38  |
| 300.000         | -32.16  |
| 1000.000        | -21.49  |
| 3000.000        | -16.56  |

### **Probe condition:**

As found:

Cosmetic condition: pass Impedance: pass

As left:

Cosmetic condition: pass Impedance: pass

#### **Calibration method:**

Absolute accuracy calibration performed at 1 MHz using vector network analyzer and Helmholtz coil. Frequency response calibration performed using vector network analyzer and slotted transmission line to generate the test magnetic field.

# **Environment:**

The laboratory is maintained in a temperature controlled environment with ambient conditions from 18 to 28C and relative humidity less than 90%.

#### **Traceability:**

The test equipment listed above is traceable to SI units through the National Institute for Standards and Technology or other recognized national metrology institute.