

1.0 EUT Description

The Equipment Under Test (EUT) is the **Wireless Computing RF-000 Wireless Receiver**. The **RF-000 Wireless Receiver** works with the wireless keyboard including along with a mouse or joystick which is plugged into the wireless keyboard. The receiver works with and is powered by the USB port on the associated computer. It also communicates on a bi-directional FM link on 916 MHz with the RF250 wireless keyboard. The EUT operates at 916.49 MHz and is designed for compliance with 47 CFR 15.249 of the FCC rules. Specific test requirements for this device include the following:

| | |
|------------------------|--|
| 47 CFR 15.249 | Fundamental Transmit Power |
| 47 CFR 15.249 & 15.209 | Spurious Radiated Power |
| 47 CFR 15.249 & 2.1049 | Occupied Bandwidth (2.989 used as Procedural Reference) |
| 47 CFR 15.203 | Antenna Requirement |

The system tested consisted of the following:

| <u>Manufacturer & Model</u> | <u>Serial #</u> | <u>FCC ID #</u> | <u>Description</u> |
|---------------------------------|-----------------|-----------------|--------------------|
| Wireless Computing, RF250 RX-A | D | L7MR000 | Receiver |
| Sony VAB PCG-Z505HE | 283056323240414 | | Laptop |

1.1 EUT Operation

The **RF-000 Wireless Receiver** was connected to the USB port of a laptop computer. The reset button was pressed and proper operation was determined by viewing the output from the RF250 wireless keyboard on the laptop display. Setup and operational modes cover worst-case configuration and operational modes for the device. The frequency of the transmitting signal is 916.49 MHz.

2.0 Electromagnetic Emissions Testing

Professional Testing (EMI), Inc. (PTI), follows the guidelines of NIST for all uncertainty calculations, estimates and expressions thereof for EMC testing.

Radiated emission measurements were made of the Fundamental and Spurious Emission levels for the **RF-000 Wireless Receiver**. Measurements of the occupied bandwidth were also made for the equipment.

Measurements of the maximum emission levels for the fundamental and the spurious/harmonic emissions of the **RF-000 Wireless Receiver** were made at the Professional Testing "Open Field" Site 3, located in Round Rock, Texas to determine the radio noise radiated from the EUT. A "Description of Measurement Facilities" has been submitted to the FCC and approved pursuant to Section 2.948 of CFR 47 of the FCC rules.

Tests of the fundamental and spurious emissions for the device were performed to determine the worst-case polarization of the devices. The fundamental and spurious emissions of the device were measured with the antennas of the devices vertical and horizontal to the ground plane.