

Exhibit B Test Report
Wireless Computing, Inc.
RF160 Wireless Optical Mouse

Project Number: 06114-10

Prepared for:

Wireless Computing, Inc.
14101 West Highway 290, Bldg. 700
Austin, Texas 78737

By
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September 2005

CERTIFICATION
Electromagnetic Interference Test Report
Wireless Computing, Inc.
RF160 Wireless Optical Mouse

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Certificate Of Compliance

Applicant: Wireless Computing, Inc.
Applicant's Address: 14101 West Highway 290, Bldg. 700
Austin, TX 78737
FCC ID: L7MR160
Project Number: 06114-10
Test Dates: September 21, 2005

I, Michael A. Royer, for Professional Testing (EMI), Inc., being familiar with the FCC rules and test procedures have reviewed the test setup, measured data and this report. I believe them to be true and accurate.

The **Wireless Computing, Inc., RF160** was tested to and found to be in compliance with FCC Part 15 Subpart C for an Intentional Radiator.

The highest emissions generated by the above equipment are listed below:

	<u>Frequency (MHz)</u>	<u>Level (dBμV/m)</u>	<u>Limit (dBμV/m)</u>	<u>Margin (dB)</u>
Fundamental	916.5	71.1	94.0	-22.9
Harmonics	3666	49.7	63.5	-13.8
Spurious	800	37.1	46.0	-8.9
Occupied Bandwidth	550 (kHz)			

Michael A. Royer, BSEE, NCE
EMC Department Manager

This report has been reviewed and accepted by Wireless Computing, Inc.. The undersigned is responsible for ensuring that **Wireless Computing, Inc., RF160** will continue to comply with the FCC rules.

1.0 EUT Description

The Wireless Computing RF160 is a wireless optical mouse. The device transmits in the ISM band at 916.5 MHz. The device employs amplitude shift keying to transmit binary data to the host device..

The system tested consisted of the following:

Manufacturer & Model	FCC Number	Description
Wireless Computing, Inc., RF160	L7MR160	Wireless Optical Mouse

1.1 Applicable Documents

Guidelines	FCC Rule Parts Part 15
Transmitter Characteristics	15.249
Spurious Radiated Power	15.205, 15.209, 15.249
Antenna Requirement	15.203

1.2 EUT Operation

The EUT was operated in continuous transmit mode at max power amplitude modulated with a 101010 bit pattern to measure fundamental, harmonics, and spurious radiation.

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.

2.1 Radiated Emissions Measurements

Radiated emission measurements were made of the Fundamental and Spurious Emission levels for the EUT. Measurements of the occupied bandwidth were also made for the EUT.

Measurements of the maximum emission levels for the fundamental and spurious/harmonic emissions of the EUT 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 for the device were performed to determine the worst case polarization of the devices. The fundamental emissions of the device were measured with the antenna of the device in three orthogonal axes.

2.1.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the ground plane. The table was centered on a motorized turntable which allows 360 degree rotation. For measurements of the fundamental signal, a measurement antenna was positioned at a distance of 3 meters as measured from the closest point of the EUT. The radiated emissions were maximized by rotating the EUT.

A Spectrum Analyzer with peak detection was used to find the maximums of the radiated emissions during the variability testing. A drawing showing the test setup is given as Figure 2.

2.1.2 Test Criteria

The table below shows FCC radiated limits for an intentional radiator operating under the provisions of part 15.249. The measurement of the harmonics was performed to 10 GHz. The reference distance for each limit is also shown in this table.

Frequency MHz	Test Distance (Meters)	Field Strength	
		(uV/m)@3m	(dBuV/m)@Test Distance
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
960 and above	3	500	54.0
Fundamental	3	50000	94.0
Harmonics	1	500	63.5

Note: Fundamental and Harmonic Limits are expressed in Average field strengths. The spurious limits are expressed in Quasi-Peak.

2.1.3 Test Results

The radiated test data for the fundamental is included in Appendix A. Peak detection was used during the test for the fundamental and harmonics. Quasi-Peak detection was used for spurious emissions below 1 GHz. The radiated emission test data is included in Appendix A. The radiated emissions generated by the RF160 are below the FCC Part 15.249 limits.

3.0 Occupied Bandwidth Measurements

Measurements of the occupied bandwidth for the fundamental signals were made at Professional Testing Round Rock, Texas site. All measurements were made in a controlled indoor environment in a configuration which did not present measurement distortion or ambient interference.

3.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based

on a 20 dB criteria (20 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

3.2 Test Criteria

According to FCC Part 15.249, the emission must remain in the defined band.

3.3 Test Results

The occupied bandwidth test data is included in Appendix A. The maximum occupied bandwidth for the fundamental frequency 916.5 MHz is 550 kHz. This occupied bandwidth complies with the FCC requirement.

4.0 Antenna Requirement

An analysis of the RF160 was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

4.1 Evaluation Procedure

The structure and application of the RF160 was analyzed with respect to the rules. The antenna is an internal antenna, and is not accessible to the user. An auxiliary antenna port is not present.

4.2 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

4.3 Evaluation Results

The RF160 meets the criteria of this rule by virtue of having an internal antenna inaccessible to the user. The EUT is therefore compliant.

5.0 Modifications to Equipment

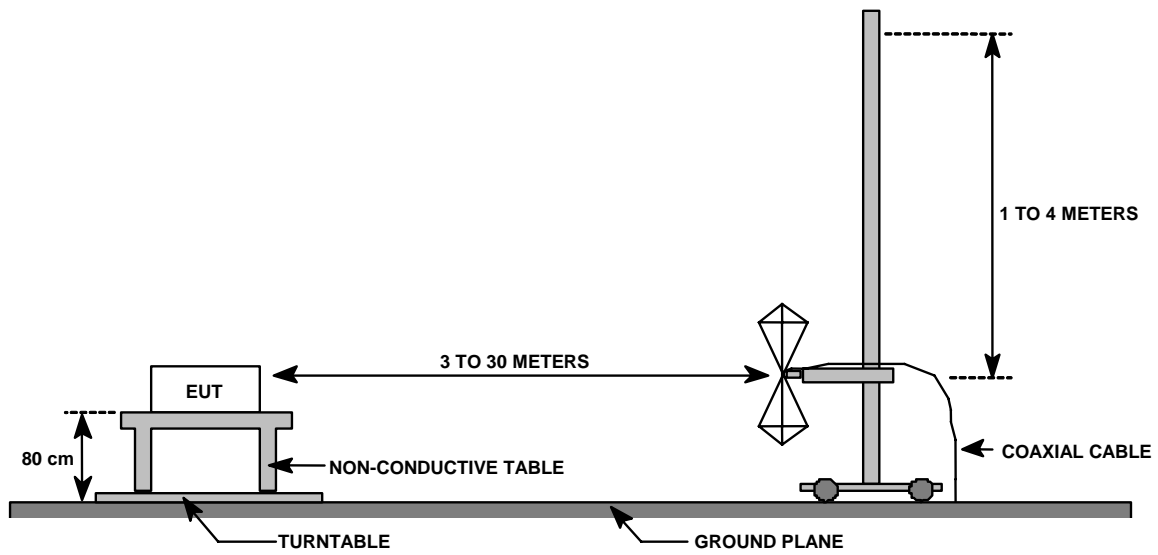
No modifications were made to the EUT.

6.0 List of Test Equipment

A list of the test equipment utilized to perform the testing is given below. The date of calibration is given for each.

<u>Device</u>	<u>Description</u>	<u>Calibration Due</u>
HP8566B	Spectrum Analyzer	March 2006
HP85650	Quasi-peak Adapter	March 2006
HP 85685	Preselector	March 2006
Compliance Design B-100	Biconical Antenna	June 2006
EMCO 3146	Log Periodic Antenna	June 2006
HP8447D	Preamplifier	November 2005
EMCO 3115	Ridge Guide Horn	July 2006
Miteq	Microwave Preamplifier	May 2006

FIGURE 1: Radiated Emissions Test Setup



APPENDIX A EMISSIONS DATA SHEET

Radiated Data Sheet
Peak Power
Wireless Computing, Inc.
RF160
Peak Detection RBW =120 kHz

Test Date: September 21, 2005
Measurement Distance (Meters): 3

Vertical

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
916.5	360	2	63	26.3	22.7	10.9	70.3	94	-23.7

Horizontal

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
916.5	45	1	63.8	26.3	22.7	10.9	71.1	94	-22.9

TEST ENGINEER: Jason Anderson

Radiated Data Sheet
Spurious
Wireless Computing, Inc.
RF160
Quasi-Peak Detection RBW=120kHz

Test Date: September 21, 2005
Measurement Distance (Meters): 3

Vertical

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
250	noise	floor	33.1	27.1	12.2	4.4	22.6	46	-23.4
350	noise	floor	34.3	27.3	14.8	5.5	27.3	46	-18.7
450	noise	floor	34.6	27.3	16.6	6.4	30.3	46	-15.7
550	noise	floor	32.3	27.2	18.2	7.3	30.6	46	-15.4
675	noise	floor	32.9	26.5	21.1	8.2	35.7	46	-10.3
800	noise	floor	32.6	25.9	21.1	9.3	37.1	46	-8.9

Horizontal

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
250	noise	floor	33.1	27.1	12.2	4.4	22.6	46	-23.4
350	noise	floor	34.3	27.3	14.8	5.5	27.3	46	-18.7
450	noise	floor	34.6	27.3	16.6	6.4	30.3	46	-15.7
550	noise	floor	32.3	27.2	18.2	7.3	30.6	46	-15.4
675	noise	floor	32.9	26.5	21.1	8.2	35.7	46	-10.3
800	noise	floor	32.6	25.9	21.1	9.3	37.1	46	-8.9

TEST ENGINEER: Jason Anderson

Radiated Data Sheet
Harmonics
Wireless Computing, Inc.
RF160
Peak Detection RBW=1 MHz

Test Date: September 21, 2005
Measurement Distance (Meters): 1

Vertical

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1833	max	1	51.5	33.3	26.8	0.6	45.6	63.5	-17.9
2749.5	max	1	56.2	34.9	29.5	0.6	51.5	63.5	-12.0
3666	max	1	50.8	34.0	32.1	0.8	49.7	63.5	-13.8
4582.5	max	1	41.1	31.7	33.5	0.8	43.7	63.5	-19.8
5499	noise	floor	33.5	30.8	35.0	0.6	38.3	63.5	-25.2
6415.5	noise	floor	36.1	30.7	35.1	1.3	41.8	63.5	-21.7
7332	noise	floor	35.9	30.9	36.9	1.4	43.3	63.5	-20.2
8248.5	noise	floor	37.4	31.3	37.5	1.4	45.0	63.5	-18.5
9165	noise	floor	36	31.1	37.4	1.5	43.8	63.5	-19.7

Horizontal

Frequency (MHz)	EUT Direction (degrees)	Antenna Elevation (Meters)	Recorded Level (dBuV)	Amplifier Gain (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Corrected Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1833	max	1	47.4	33.3	26.8	0.6	41.5	63.5	-22.0
2749.5	max	1	53.2	34.9	29.5	0.6	48.5	63.5	-15.0
3666	max	1	50.4	34.0	32.1	0.8	49.3	63.5	-14.2
4582.5	max	1	46.2	31.7	33.5	0.8	48.8	63.5	-14.7
5499	noise	floor	33.5	30.8	35.0	0.6	38.3	63.5	-25.2
6415.5	noise	floor	36.1	30.7	35.1	1.3	41.8	63.5	-21.7
7332	noise	floor	35.9	30.9	36.9	1.4	43.3	63.5	-20.2
8248.5	noise	floor	37.4	31.3	37.5	1.4	45.0	63.5	-18.5
9165	noise	floor	36	31.1	37.4	1.5	43.8	63.5	-19.7

TEST ENGINEER: Jason Anderson

Occupied Bandwidth Datasheet

Wireless Computing, Inc.

RF160

Test Date: September 21, 2005
Measurement Distance (Meters): 3

