



4/21/2006

Mr. Doug Noble
ATCB

RE: Radio System Corporation

FCC ID: KE3-WC100
IC: 2721A-WC100

Below are my responses to your comments on this Application.

FCC:

1. Please supply corrected FCC ID label. Form 731 shows a dash between the grantee code and the certification number. The label in the exhibit does not show this dash. If the dash should not be included in the FCC ID number please revise and upload the Form 731.

Label revised and uploaded

2. In the test report 4 models are covered. If they are different in size, etc. You will need to provide photos showing the difference between the four models.

Differences between the models are only associated with the size of the bed area. Antenna length is identical for each unit, however, number of turns vary based upon the size of the bed. Since the wire length is the same, the small bed has the most number of turns, although the loop size is smaller. The large bed has the least number of turns, yet the loop size is larger. The PCB and circuit placement is identical for all four beds. Sample photos of the small bed is provided illustrate the similarities of the beds.

3. Please revise test report to include Information clearly identifying which model was found to be worse case and how it was tested.

Below is the modification of the test report:

Measurements were made using a peak detector. Field strength of the peak fundamental emission is shown in Figure 4.

For purposes of this test, the EUT was set to a maximum duty cycle, maximum TX power, and 10.65 kHz transmit frequency. Testing of the 10.65 kHz Electro-magnetic field was conducted with the EUT transmitting continuously at the max field condition, at

a distance of 1 meter, using the loop antenna.

All four units were tested for Fundamental field Strength and Harmonics and the worst case unit was tested to represent all units.

Each unit was placed upon the turntable, rotated, and maximum fundamental field strength was observed and plotted with the loop antenna in X, Y, and Z Axis orientation, at a 1 m height. Copies of these plots are on file at U.S. Technologies. Spurious Harmonic Emissions were reviewed, and the worst case Harmonics values observed corresponded with the Maximum Fundamental Frequency. Data for the worst case configuration has been provided.

The worst case model was the PW17-10799, the X-Large Wireless Crate.

4. Please revise test report stating methods and showing photos of how the manipulation of loop antenna per ANSI C63.4 2003 was accomplished.

See above. Due to lack of original sample, the photos cannot be provided. However, the description above details positioning of the antenna

IC:

1. Industry Canada label should be "IC:" not "CAN:". Label should have dash between Company Number and Unique Product Number. Please upload a new Label exhibit.

Revised and uploaded

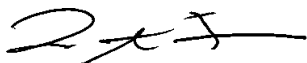
2. In the test report please show test data to support Emissions designator for IC?

Revised and uploaded, data inadvertently left out.

3. Please provide REL listing letter.

Uploaded.

Please contact me with any further questions.



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