



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

February 6, 2007

RE: FCC ID: PHX-RSU2510R_ATCB004501

Attention: Tim Blom

I have a few comments on this Application. Please note that further comments may arise in response to answers provided to the questions below.

1. Please note that 27.50(i) states that the transmit power is to be measured using an analyzer or power meter calibrated in terms of rms-equivalent voltage. It is not clear from the data if the analyzer used has been calibrated in terms of rms-equivalent. While this is probably the case, it must be clearly indicated. Please provide a clear statement if the analyzer was calibrated in terms of rms-equivalent voltage.
2. Please note that power measurements in accordance with 27.50(i) are for peak transmit power. Please note that the FCC has stated that when power measurements above 1GHz are made the resolution bandwidth needs to be set to at least 1MHz. Please note that peak transmit power also needs to be measured with the resolution bandwidth equal to or greater than the occupied bandwidth of the signal being measured. Please note that the resolution bandwidths for the measurements in the report appear to be close to 1% of this value rather than the equal to or greater than value typically accepted for power measurements. While newer analyzers may do some auto correction for resolution bandwidths less than the occupied bandwidth, the fact that the chosen resolution bandwidth is only 56kHz or 62kHz (i.e. 1%), the stated FCC resolution bandwidth above 1GHz is 1MHz and the fact that the power measured is at the 2W limit, there is some question as to the accuracy of the measurement. Because the device is exactly at 2 watts transmit power and because the 1MHz resolution bandwidth stated by the FCC above 1GHz was not used compliance of the device is in question due to the possible correction factors errors resulting from the use of such low resolution bandwidth. Please re-measure the power of the device using at least the stated FCC resolution bandwidth for measurements of power above 1GHz.
3. please note that the calculated MPE for the device is 21+cm. as the statement in the manual is being justified by measured MPE at 20cm, please provide some information on how this measurement was performed (i.e. EUT and probe setup; where was the measurement made in relation to EUT orientation etc)..

Dennis Ward
<mailto:dward@AmericanTCB.com>

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.