



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

March 25, 2003

RE: Wilcoxon Research, Inc.

FCC ID: QAQMAYMAN

After a review of the submitted information, I have a few comments on the above referenced Application. These comments take into consideration the attestation comments already provided.

- 1) Please provide a block diagram that shows the frequencies of all the oscillators in the TX portion of the device (CFR 2.1033(a)(5)).
- 2) Please provide photographs of the antenna(s) tested with this device.
- 3) Bluetooth theory of operation states the frequency range for the U.S. is 2402-2480 MHz. However the label shows 2401 MHz. Please provide a corrected label.
- 4) The radiated report attestation appears to state that the maximum output power is + 6 dBm which is not consistent with other information in the application. Please explain.
- 5) It appears as if one of the readings for 2281 MHz, Horiz., on page 28 of 55 may have been labeled PK instead of AVG. Please confirm.
- 6) Readings at 4804 MHz, Vert, page 29 of 55 are shown for PK only. Compliance with AVG limits is not shown. Please provide information showing compliance for this frequency for the AVG limits as well.
- 7) The Users Manual, Appendix B, lists maximum RF values much higher than given throughout the test measurements and other portions of this application. Please explain and adjust the users manual for consistency with the application. Note that the FCC expects all exhibits to be consistent.
- 8) Although radiated emissions results have been provided and antenna conducted bandedge compliance for 20 dB below the fundamental has been shown, it does not appear that any information regarding radiated emissions at the 2.39 GHz and 2.4835 GHz restricted bands/bandedges has been provided. Please provide information that shows compliance with these bands.
- 9) FYI.....Proposed Grant Conditions:  
**Modular Approval. Power Output listed is conducted. Approval is limited to OEM installation only. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. OEM integrators must be provided with antenna installation instructions. OEM integrators and end-users must be provided with transmitter operation conditions for satisfying RF exposure compliance. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device.**

A handwritten signature in black ink, appearing to read 'Timothy R. Johnson'.

Timothy R. Johnson  
Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@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.