



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

June 13, 2003

RE: Alien Technology Corporation

FCC ID: P65BHNPR001 Permissive Change

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) Please provide an RF exposure exhibit specific for this application and that it still meet the RF exposure conditions originally reported to the FCC.
- 2) It can not be determined from the information on the FCC site the types/gains of the previously approved antennas. Please provide this information.
- 3) The power sensor used appears to be out of calibration.
- 4) Please provide information for the RBW and VBW settings used for PEAK and AVG measurements.
- 5) The margins shown in the table for run 1c do not appear to correspond to the corrected readings and limits shown.
- 6) Please explain the use of the AVG detector. Frequency hopping systems must be measured using a hop-stopped carrier (frequency stopped, plus non pulsing) when possible. Note that Page 4 of 8 states that the device was hopping unless otherwise stated. Frequency hopping systems are measured hop stopped for PEAK and AVG emissions, and if they TX < 100 msec per channel they may be additionally corrected for time of occupancy per channel. If the device was not appropriately hop stopped, then the use of the AVG detector using standard RBW = 1 MHz and VBW = 10 Hz may not be allowed. Additionally, please provide plots of the fundamental as it was set during testing using RBW = 1 MHz and VBW = 10 kHz, 1 kHz, 100 Hz, 10 Hz settings, using a zero Hz span and 20 - 30 msec sweep time.
- 7) The previously approved unit was only tested to the current FCC AC Power line conducted limits (450 kHz - 30 MHz). However, it is recommended that the conducted emissions meet the future limits (CISPR) that will be required in the next few years. This is because the grant will be issued with one of the following grant notes depending on which set of limits it is shown to have met:

Current Limits

NOTE: The manufacture and importation of this device must cease on July 10, 2005 pursuant to 15.37(j) or 18.123 transition provisions adopted under FCC 02-157 (ET Docket 98-80).

Future Limits (CISPR)

NOTE: This device has shown compliance with the conducted emissions limits in 15.107, 15.207, or 18.307 adopted under FCC 02-157 (ET Docket 98-80) and may be marketed after July 11, 2005 and is not affected by the 15.37(j) or 18.123 transition provisions.

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.