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

November 27, 2001

RE: Intel

FCC ID: J3OWSAP5000

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

1) Please provide clearer top & bottom photographs of the TX board and Antenna board assemblies.
2) The internal photographs do not clearly show the positioning of the antenna assembly in the product. Please provide an additional photographs showing this.
3) Please provide an exhibit as part of your RF exposure information that compares the worse-case measured MPE to the calculated MPE based upon the information given in the test report (power & antenna gain).
4) The product documentation refers to this as a Dual Port Access Point and the theory of operation discussed 2 different radio solutions. Please confirm that this unit being submitted will only contain the card that uses the Atheros chipset.
5) It is not easily discernible to the end user (assumed to be non-technical) what distance should be maintained from the antenna during use. The information provided is for multiple devices and the 20 cm distance required for classification as a mobile device is mentioned only in tandem with dipole antennas. Also, does the end user realize where the antenna of this device is located? Please make the regulatory information more precise to be inclusive of this device. It is recommended that pages 9/10 of the manual include a warning statement (especially for the desk or table top configuration) regarding the 20 cm separation distance, since this is more conspicuous to the user or installer of the device than the regulatory information page which may not be looked (since this is provided only in the electronic versions of the documentation).
6) The theory of operation states that the "indoor use" only statements will be included in the manual, however these were not found in the manual provided. Please comment.
7) Parts lists were uploaded for the Hardware and MiniPCI Radio without request of confidentiality. Please confirm if confidentiality is requested for these items and update the letter of confidentiality if necessary
8) The Radiated fundamental field strength appears to be higher for the omni antenna than the half-round (which is considered to be higher gain) for both normal and turbo modes. Please explain.
9) The relatively high 2805, 2813, & 8431 MHz antenna conducted spurious for Normal Mode emissions falling in restricted bands do not appear to be measured radiated. Also 2805, 2813, 2815, 2902, 8419, & 8433 MHz for Turbo Mode. Please comment.
10) The power spectral density on the summary page (page 5 of 20, page 5 of 69) for 5.15 to 5.25 & 5.25 to 5.35 Band does not match test report data for Normal Mode (see page 9 of 69). The bandwidth (page 5 of 20) for the 5.15 to 5.25 Band does not match the worse case data from the test report for Normal Mode (see page 11 of 69). The power output (page 6 of 20, page 36 of 69) for the 5.25 to 5.35 Band does not match the test report for Turbo Mode (see page 36 of 69). Several measurements in dBm on page 48 f 69 are also missing negative signs. Please correct these errors to ensure consistency in the report.

Timothy R. Johnson
Examining Engineer

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.