



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

May 20, 2003

RE: FCC ID: AK8 PCG571Z

Attention: Hironobu Shimoji / Kanako Sanda

I have a few comments on this Application.

1. Please note that the 731 is incorrect. Since this device states "contains TX FCC ID: xxxx" for the Bluetooth, and since it is assumed the grant is valid as stated, the only information on the 731 should address the W-LAN which is a DTS not DSS equipment code. Please correct the 731 to properly identify the equipment codes and frequency ranges for this device. The code should be DTS and the frequency range should be 2412 to 2462MHz. The Bluetooth operation (if the device is installed and operating as prescribed by the Bluetooth grant with its certified antenna), is already addressed on its own ID. XXX
2. Please note, stating "Contains TX FCC ID:xxxx", indicates that you are using the antenna approved with the Bluetooth module. However, you have not clearly stated this condition. If you are not using the antenna certified with the Bluetooth module FCC ID: CWTUGPZ3 in this unit, then this is a composite application requiring both DTS and DSS 731's. Please verify that the Bluetooth antenna used in the laptop is that with which it was certified. If it is not, please provide corrected 731's showing composite applications for the W-LAN and Bluetooth. (Also, if this is a composite application, the statement "Contains TX FCC ID:xxx will have to be removed since the grant would no longer be valid – unless the Original manufacturer has done a PC2 for the antenna in question). XXX
3. Are the W-LAN antenna(s) and Bluetooth antenna(s) separated by greater than 20cm? xxx
4. Please provide the OEM W-LAN installation guide with all appropriate FCC statements. xxx
5. Please note that you have only shown the peak (74dB) limit for band edge radiated emissions on page 16 of the report. Since you have not shown the average readings and since the peak show over the 54dB restricted band limits, the device fails and is not certifiable as it is. Please provide passing data for the restricted band radiated emissions. xxx
6. What is being certified? Is it the laptop with the W-LAN transmitter? Is it the laptop with the Bluetooth transmitter? Is it the laptop with both the WLAN and Bluetooth transmitters? Please note that the 731 states this is an original application, consequently all pertinent test results must be provided and the testing must be made clear as to what the device being certified is. The report only shows radiated emissions with the WLAN and Bluetooth operating simultaneously. Since the Bluetooth has an FCC ID (if the Bluetooth antenna certified with the Bluetooth is being used in the device) it would appear that the W-LAN is the transmitter under test and that it is just collocated with an existing FCC ID's Bluetooth. This means you need to provide all test results dealing with a DTS WLAN device. If the Bluetooth ID is not valid because a different antenna than that which is on the Bluetooth grant is used, then you will have to provide all appropriate test data (or alternately perform a PC2 on the Bluetooth module with the antenna used in this device) for the Bluetooth transmitter as well as all appropriate test data for the WLAN. Please provide a report with all appropriate testing results reported. If this laptop with this WLAN has already been certified under a different ID, and you are simply adding the FCC ID's Bluetooth device, then a PC2 on the approved Laptop with WLAN is only required. Please clearly identify what is being certified. xxx

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.