

October 25, 2007
ITPD-07-F028A

To: Mr. Gregory Czumak / PCTEST TCB
RE: FCC ID: ACJ9TGCF-306
Applicant: Panasonic Corporation of North America
Correspondence Reference Number: ACJ7696
Confirmation Number: 708020692-9
Date of Original Email: October 22, 2007 and October 25, 2007

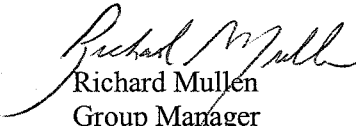
Subject: Request for additional information

In regards to your recent TCB application referenced above, we kindly request that you provide the following additional information.

- Q1. The WLAN operational description describes 2x2 and 3x3 MIMO. Is this enabled in the EUT? Please specify the type of MIMO employed (please note that at TCB may only issue grant for spatial MUX and phased-array MIMO).
- A1: Intel Wireless WiFi Link 4965AGN Card Series was separately certified by America TCB under Intel FCC ID: PD94965AG, which can support 2x2 and 3x3 MIMO modes of operation. However, when this transmitter is installed within our end-product Laptop Computer, it has the MIMO mode disabled and may operate only in the AG mode.
- Q2. If MIMO is available, please verify that all transmit chains were simultaneously active during all testing.
- A2. MIMO is not enabled in any of our present lineup of Laptop Computers and is not user software adjustable.
- Q3. Please address the following Sections: 15.407(e) concerning restriction to indoor operation in the 5.15 - 5.25GHz band.
- A3. The Operation Instructions includes the following wording regarding compliance with Section 15.407(e):
Only for model with wireless LAN:
This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

- Q4. Please address Section 15.203 for the external 2.4 GHz WLAN antenna (car-mounter), as a TNC connector is used. If it will be professionally installed, this must be justified (i.e., address the intended use of the EUT, the method of marketing and the installation requirements).
- A4. The subject Mobile Personal Computer Model CF-30 Family may be marketed with optional Car Mounter Model CF-WEB291, which is provided with passive RF pass-thru with two TNC connectors intended for WLAN and WWAN external antennas. One external antenna connector is intended for connection to Radiall/Larsen WLAN 2.4 GHz Base Whip antenna, type NM05E2400BKTNC with 5 dBi antenna gain. The other antenna connector is intended for connection of licensed radio service WWAN antenna. The Supplemental Car Mounter instructions provide the recommended maximum WWAN external antenna gain of 9.85 dBi for Part 22H and 8.34 dBi for Part 24E. The Car Mounter with external antenna connectors are for use with WLAN and WWAN and will be marketed to only professional services such as first responders (police, recue services, etc.) and is professionally installed.

Sincerely yours,



Richard Mullen
Group Manager
Product Safety & Compliance Division