

August 31, 2006

ITPD-06-F011A: WLAN Part 15C / DTS / EA313926

ITPD-06-F011B: UNII Part 15E / NII / EA886336

ITPD-06-F011C: HSDPA Parts 22H, 24E / PCB / EA712027

To: Diane Poole / FCC Application Processing Branch
FCC ID: ACJ9TGCF-W52
Applicant: Panasonic Corporation of North America
731 Confirmation Numbers: EA313926, EA886336, EA712027
Correspondence Ref Numbers: 31492, 31502, 31521
Subject: Laptop Computer, Model CF-W5 with Intel WLAN and Novatel HSDPA

1) CF-W5 user manual shows position of WLAN antennas, but not pt22/24 antenna(s) - if updated user manual is available, please submit

Answer: The WLAN Main TX/RX and Aux TX/RX antennas are located in the bottom keyboard; and the HSDPA TX/RX antenna is located in top LCD.

2) What is distance from closest point of pt22/24 antenna(s) to bottom of base of laptop?

Answer: The HSDPA transmitter antenna is located in the LCD and greater than 20 cm from the bottom base of the laptop. Regarding RF exposure evaluation, the WLAN is portable and the HSDPA is mobile.

FYI

3) This device needs additional line items for PCE EDGE mode 824.2-848.8 MHz and 1850.2- 1909.8 MHz bands. What line items are to be added to the Grant (frequencies, power, tolerance, and emissions designator) for EDGE mode?

Answer: The frequency range for EDGE is the same as GPRS. The frequency tolerances are the same. The powers for EDGE are lower and listed as bold items in attached exhibit. The emission designators are 278KG7W for EDGE 850 MHz and 277KG7W for EEDGE PCS band (The X becomes a 7 for EDGE).

(1) Intel WLAN (a+b+g) Module, Model WM3945ABG

<u>FCC Rule Part</u>	<u>Freq Range (MHz)</u>	<u>Type</u>	<u>Conducted Output Watts</u>
Part 15C	2412~2462	DSSS/OFDM/802.11(b)	0.0228
Part 15C	2412~2462	DSSS/OFDM/802.11(g)	0.0264
Part 15C	5745~5825	OFDM/802.11(a)	0.3490
Part 15E	5180~5240	UNII Low Band	0.0150
Part 15E	5260~5320	UNII High Band	0.0137

(2) Novatel HSDPA/GPRS/EDGE Module, Model EU730

<u>FCC Rule Part</u>	<u>Freq Range (MHz)</u>	<u>Type</u>	<u>Output Watts</u>	<u>Emission Designator</u>
Part 22H	824.20~824.20	Cellular GPRS	1.735 W ERP	278KGXW
Part 22H	824.20~824.20	EDGE	0.490 W ERP	246KG7W
Part 22H	826.40~846.60	Cellular HSDPA	0.163 W ERP	4M17F9W
Part 24E	1850.20~1909.80	PCS GPRS	0.779 W EIRP	277KGXW
Part 24E	1850.20~1909.80	EDGE	0.445 W EIRP	246KG7W
Part 24E	1852.40~1907.60	PCS HSDPA	0.235 W EIRP	4M18F9W

4) In accordance with OET/Lab grant power listing procedures (e.g., July 2006 TCBC conference call, repeated below for convenience), max radiated power will be listed in grant notes. Please explain and /or revise filing to clarify what are measured maximum radiated powers for this transmitter integrated into this specific final-product.

Answer: The Parts 15C and 15E output powers were reported as conducted output power. The Parts 22H and 24E output powers were reported as ERP and EIRP. The highest reported Portable Body SAR values for 2.4 GHz is 0.727 W/kg; 5.3 GHz is 0.651 W/kg; and 5.8 GHz is 1.18 W/kg.