

# **FCC RF EXPOSURE REPORT**

**FCC ID: ACJ-TNPA6600**

**Project No. : 1710C249**  
**Equipment : Wireless LAN MODULE**  
**Model : TNPA6600**  
**Applicant : Panasonic Corporation of North America**  
**Address : Two Riverfront Plaza, 9th Floor Newark New Jersey United States**

**According: : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

## **B T L I N C .**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

2.4 G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Panasonic	N/A	PCB Antenna	N/A	-1.8
2	Panasonic	N/A	PCB Antenna	N/A	-3.39

5 G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Panasonic	N/A	PCB Antenna	N/A	-1.4
2	Panasonic	N/A	PCB Antenna	N/A	-2.67

## TEST RESULTS

EUT :	Wireless LAN MODULE	Model Name :	TNPA6600
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

### 2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-1.8	0.6607	24.81	302.6913	0.03981	1	Complies

### 5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-1.4	0.7244	17.27	53.3335	0.00769	1	Complies

### 5G Band UNII-2A

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-1.4	0.7244	19.27	84.5279	0.01219	1	Complies

### 5G Band UNII-2C

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-1.4	0.7244	19.39	86.8960	0.01253	1	Complies

### 5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
-1.4	0.7244	19.33	85.7038	0.01236	1	Complies

Note: the calculated distance is 20 cm.