

**Report No.:** SA171116E01

**FCC ID:** ACJ96NKX-HNB700

**Test Model:** KX-HNB700

**Received Date:** Nov. 16, 2017

**Test Date:** Dec. 12, 2017

**Issued Date:** Jan. 11, 2018

**Applicant:** Panasonic Corporation of North America

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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### Release Control Record

Issue No.	Description	Date Issued
SA171116E01	Original release.	Jan. 11, 2018

## 1 Certificate of Conformity

**Product:** Access point

**Brand:** Panasonic

**Test Model:** KX-HNB700

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Panasonic Corporation of North America

**Test Date:** Dec. 12, 2017

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Mary Ko , **Date:** Jan. 11, 2018  
Mary Ko / Specialist

**Approved by :** May Chen , **Date:** Jan. 11, 2018  
May Chen / Manager

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

#### 2.4 Antenna Gain

Ant. No.	Antenna Net Gain (dBi)	Frequency Range(GHz)	Antenna Type	Connector Type
1	2.90	2.4-2.4835	PCB	i-pex(MHF)
2	2.42	2.4-2.4835	PCB	i-pex(MHF)

#### 2.5 Calculation Result

Frequency Band (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	745.022	5.67	20	0.54689	1

NOTE: Directional gain =  $10 \log[(10^{G_0/20} + 10^{G_1/20})^2 / 2] = 5.67\text{dBi}$

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