

TEST REPORT

FCC MPE Test for WL1NB6V2
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2008-FI030

DATE OF ISSUE
31 August 2020

Tested by
Jeong Ho Kim



Technical Manager
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

HCT CO., LTD.

Soo Chan Lee
SooChan Lee / CEO

HCT CO., LTD.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Tel. +82 31 634 6300 F ax. +82 31 645 6401



HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Tel. +82 31 634 6300 Fax. +82 31 645 6401

고객비밀
CUSTOMER SECRET



TEST REPORT

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WL1NB6V2

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August 31, 2020

Additional Model

-

Applicant

LG Electronics Inc.

222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea

**Eut Type
Model Name**

Wireless Adapter Card

WL1NB6V2

FCC ID

BEJ-WL1NB6V2

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	August 31, 2020	Initial Release

This laboratory is not accredited for the test results marked *.

The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.(HCT Accreditation No.: KT197)

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance

* The report shall not be reproduced except in full(only partly) without approval of the laboratory.

RF Exposure Statement

1. Limit

According to § 1.1310, § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f ²)	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. Maximum Permissible Exposure Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

3. RESULTS

UNII_ANT_A

Max. average output power at antenna input terminal	12.000	dBm
Max. average output power at antenna input terminal	15.849	mW
Prediction distance	20.000	cm
Prediction frequency	5845.000	MHz
Antenna Gain(typical)	1.390	dBi
Antenna Gain(numeric)	1.377	-
Power density at prediction frequency(S)	0.0043	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

UNII_ANT_B

Max. average output power at antenna input terminal	15.000	dBm
Max. average output power at antenna input terminal	31.623	mW
Prediction distance	20.000	cm
Prediction frequency	5845.000	MHz
Antenna Gain(typical)	1.450	dBi
Antenna Gain(numeric)	1.396	-
Power density at prediction frequency(S)	0.0088	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²