

TEST REPORT

FCC MPE Test for KSS104M
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2009-FI013-R1

DATE OF ISSUE
October 29, 2020

Tested by
Kwang Il Yoon



Technical Manager
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

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고객비밀
CUSTOMER SECRET



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Additional Model

-

Applicant

LG Electronics Inc.

222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, South Korea

Eut Type Model Name

Wireless module
KSS104M

FCC ID

BEJKSS104M

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	September 23, 2020	Initial Release
1	October 29, 2020	Revised the Max Average EIRP output Power.

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.

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)

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

RF Exposure Statement

1. LIMITS

According to § 1.1310 and § 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 of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

-[60 GHz]-

Max Average EIRP output Power	9.00	dBm
Max Average EIRP output Power	7.94	mW
Prediction distance	20.00	cm
Prediction frequency	57.1 ~ 63.9	GHz
Power density at prediction frequency(S)	0.0016	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

Max Average EIRP output Power	26.48*	dBm
Max Average EIRP output Power	444.63	mW
Prediction distance	20.00	cm
Prediction frequency	57.1 ~ 63.9	GHz
Power density at prediction frequency(S)	0.0885	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

***Note:**

This EUT is capable of simultaneous emission of up to 56.