

TEST REPORT

FCC SAR Exclusion Test for LGMR1
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-SR-2603-FC002-R1

DATE OF ISSUE
March 16, 2026

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TEST REPORT

FCC SAR Exclusion
Report

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HCT-SR-2603-FC002-R1

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March 16, 2026

Applicant

LG Electronics Inc.
222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do 17709, Republic of Korea

EUT Type
Model Name

Remote Control
LGMR1

FCC ID

2B03LLGMR1

Application Type

Certification

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, Republic of Korea)

FCC Rule

47CFR § 2.1093

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	March 11, 2026	Initial Release
1	March 16, 2026	Revised Sec. 2.1

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

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

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.

(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

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1. EUT DESCRIPTION

Model Name	LGMR1
EUT Type	Remote Control
Frequency Range	2 402 MHz – 2 480 MHz
Max. RF Output Power	Conducted power 3.77dBm +/- 1.47 + 2.76dBi(peak Ant. Gain) = 8.0 dBm(EIRP)
Modulation Type	GFSK
Number of Channels	40 Channels
Antenna Specification	Peak Gain : 2.76 dBi

2. TEST METHODOLOGY

2.1 FCC

Body SAR Test Exclusions Applied Bluetooth

According to the FCC KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
 $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

$$\frac{\text{Max Power of Channel(mW)}}{\text{Test Separation Distance (mm)}} * \sqrt{\text{Frequency(GHz)}} \leq 3.0 \text{ For 1g SAR, 7.5 for 10g SAR}$$

where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Bluetooth Calculation Result:

Tx frequency range: 2 402 MHz ~ 2 480 MHz

Limb SAR Consideration Min. test separation distance: 5 mm

Body/Face SAR Consideration Min. test separation distance: 5 mm

Maximum Output Power: 5.24 dBm (3.34 mW)

The Highest RF channel frequency: 2 480 MHz

For Limb SAR Exclusion

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 7.5 for 10 g SAR
	[MHz]	[mW]	[mm]	
Bluetooth	2 480	3.34	5	1.05

For Body/Face SAR Exclusion

Mode	Frequency	Maximum Allowed Power	Separation Distance	≤ 3.0 for 1 g SAR
	[MHz]	[mW]	[mm]	
Bluetooth	2 480	3.34	5	1.05

Based on the maximum output power of Bluetooth LE and antenna to use separation distance, Bluetooth LE Limb SAR and Body/Face SAR were not required.

End.