TEST REPORT

SAR Exclusion Test for LCWBT-001
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-SR-2607-FC002

DATE OF ISSUE
July 22, 2026

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TEST REPORT

FCC SAR Exclusion Report

REPORT NO.
HCT-SR-2607-FC002

DATE OF ISSUE
July 22, 2026

Applicant	LG Electronics Inc. 170, Seongsan Pachong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do 51533, Republic of Korea
Product Name	RF Module
Model Name	LCWBT-001
Brand Name	LG
FCC ID	2BO3L-LCWBT001
Date of Test	July 22, 2026
Location of Test	■ Permanent Testing Lab □ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
Test Standard Used	CFR §2.1091
Test Results	PASS

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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	July 22, 2026	Initial Release

Notice

Content
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 ISED Rules under normal use and maintenance. 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 The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. EUT DESCRIPTION

Model Name		LCWBT-001
EUT Type		RF Module
Frequency Range	Bluetooth LE	2 402 ㎒ – 2 480 ㎒
	2.4 ㎓ WLAN	2 412 ㎒ – 2 462 ㎒
	Thread	2 405 ㎒ – 2 480 ㎒
Max. RF Output Power	Bluetooth LE	Target Power: 4.5 dBm Tolerance + 1.5 dB(6.0 dBm)
	2.4 ㎓ WLAN	Target Power: 17 dBm Tolerance + 1.5 dB(18.5 dBm)
	Thread	Target Power: 9.0 dBm Tolerance + 1.5 dB(10.5 dBm)
Modulation Type	Bluetooth LE	GFSK
	2.4 ㎓ WLAN	DSS/CCK: 802.11b, OFDM: 802.11g, 802.11n(HT20)
	Thread	DSSS, O-QPSK
Antenna Specification		Antenna type: PCB Pattern Antenna
		Peak Gain: 0.513 dBi

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2. TEST METHODOLOGY
2.1 FCC

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:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

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

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

The 40mm[Body], 20.93mm[Extremity] separation distance for evaluating RF exposure for this model was declared by the manufacturer.

2.4 GHz WLAN Calculation Result:

Tx frequency range: 2 412 MHz ~ 2 462 MHz
Body SAR Consideration Min. test separation distance: 40 mm
Maximum Output Power: 18.5 dBm (70.79 mW)
The Highest RF channel frequency: 2 462 MHz

Bluetooth LE Calculation Result:

Tx frequency range: 2 402 MHz ~ 2 480 MHz
Body SAR Consideration Min. test separation distance: 40 mm
Maximum Output Power: 6.0 dBm (3.98 mW)
The Highest RF channel frequency: 2 480 MHz

Thread Calculation Result:

Tx frequency range: 2 405 MHz ~ 2 480 MHz
Body SAR Consideration Min. test separation distance: 40 mm
Maximum Output Power: 10.5 dBm (11.22 mW)
The Highest RF channel frequency: 2 480 MHz

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For SAR Exclusion

Mode	Frequency [MHz]	Maximum Allowed Power [mW]	Separation Distance [mm]	≤ 3.0 for 1 g SAR
Bluetooth LE	2 480	3.98	40	0.157
2.4 GHz WLAN	2 462	70.79	40	2.777
Thread	2 480	11.22	40	0.442

Based on the maximum output power of Bluetooth, 2.4 GHz WLAN, Thread antenna to use separation distance, Bluetooth, 2.4 GHz WLAN, Thread Body SAR were not required.

For Estimated SAR

$$Estimated\ SAR = \frac{\sqrt{f(GHZ)}}{7.5} * \frac{(Max\ Power\ of\ channel\ mW)}{Min\ Seperation\ Distance}$$

Mode	Frequency [MHz]	Maximum Allowed Power [mW]	Separation Distance (Body) [mm]	Estimated 1g SAR (Body) [W/kg]
Bluetooth LE	2 480	3.98	40	0.021
2.4 GHz WLAN	2 462	70.79	40	0.370
Thread	2 480	11.22	40	0.059

End.

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