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**HCT**

# TEST REPORT

FCC MPE Test for LVR-001  
Certification

**APPLICANT**  
LG Electronics Inc.

**REPORT NO.**  
HCT-RF-2209-FI004

**DATE OF ISSUE**  
September 16, 2022

**Tested by**  
Kyung Jun Woo



**Technical Manager**  
Jong Seok Lee

Accredited by KOLAS, Republic of KOREA

**HCT CO., LTD.**  
*BongJai Huh*  
BongJai Huh / CEO



# TEST REPORT

FCC MPE Test for  
LVR-001

**REPORT NO.**

HCT-RF-2209-FI004

**DATE OF ISSUE**

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**Additional Model**

-

**Applicant**

**LG Electronics Inc.**

170, Seongsanpaechong-ro, Seongsan-gu, Changwon-si Gyeongsangnam-do  
51533 Republic of Korea

**Eut Type  
Model Name**

VR Gen3 module  
LVR-001

**FCC ID**

BEJ-LVR001

**Frequency range**

2 402 MHz ~ 2 480 MHz (Bluetooth)  
2 412 MHz ~ 2 462 MHz (WLAN)

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 16, 2022	Initial Release

### 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

### KOLAS Statement:

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. (KOLAS Accreditation No. KT197)

If this report is required to confirmation of authenticity, please contact to [www.hct.co.kr](http://www.hct.co.kr)



**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 <sup>2</sup> )	Averaging time (minutes)
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. 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

#### 3-1. Bluetooth LE

Max. Average output Power at antenna input terminal	7.50	dBm
Max. Average output Power at antenna input terminal	5.62	mW
Prediction distance	20.00	cm
Prediction frequency	2402 – 2480	MHz
Antenna Gain(typical)	1.57	dBi
Antenna Gain(numeric)	1.435	-
Power density at prediction frequency( S)	0.0016	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

#### 2.1091

EIRP	9.07	(dBm)
ERP	6.92	(dBm)
ERP	0.005	(W)
ERP Limit	3.00	(W)
MARGIN	27.85	(dB)

### 3-2. DTS

Max. Average output Power at antenna input terminal	20.00	dBm
Max. Average output Power at antenna input terminal	100.00	mW
Prediction distance	20.00	cm
Prediction frequency	2412 – 2462	MHz
Antenna Gain(typical)	1.57	dBi
Antenna Gain(numeric)	1.435	-
Power density at prediction frequency( S)	0.0286	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm <sup>2</sup>

### 2.1091

EIRP	21.57	(dBm)
ERP	19.42	(dBm)
ERP	0.087	(W)
ERP Limit	3.00	(W)
MARGIN	15.35	(dB)