

# TEST REPORT

EMC Test for WR24GA

**APPLICANT**  
LG Electronics Inc.

**REPORT NO.**  
HCT-EM-2407-FC008

**DATE OF ISSUE**  
July 26, 2024

**Tested by**  
Hyun-Jin Lim



**Technical Manager**  
Jeong-Hyun Choi



Accredited by KOLAS, Republic of KOREA

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

**TEST  
REPORT**  
FCC Certification

REPORT NO.  
HCT-EM-2407-FC008

DATE OF ISSUE  
July 26, 2024

FCC ID.  
BEJWR24GA

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

**Product Name**      Simple Remote  
**Model Name**        WR24GA

**Date of Test**        07.17.2024 to 07.18.2024

**Location of Test**     Permanent Testing Lab     On Site Testing Lab  
(Address: See clause 1.2)

**Test Standard Used**      FCC CFR 47 PART 15 Subpart B Class B  
ANSI C63.4-2014

**Test Results**        Refer to the present document

**Manufacturer**        LG Electronics Inc.  
**Brand Name**         LG

## REVISION HISTORY

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

| Revision No. | Date of Issue | Description     |
|--------------|---------------|-----------------|
| 0            | July 26, 2024 | Initial Release |

## Notice

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### 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](http://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. TESTING LABORATORY

### 1.1 General Information

|                          |  |
|--------------------------|--|
| <b>Organization Name</b> | HCT Co., Ltd.  |
| <b>Address</b>           | 2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do,<br>17383. Rep. of Korea |
| <b>Telephone</b>         | +82 31 645 6300  |
| <b>FAX</b>               | +82 31 645 6401  |

### 1.2 Location of the Test Site

The test site is located at the following address.;

|                  |   |
|------------------|---|
| <b>Address</b>   | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do,<br>17383. Rep. of Korea |
| <b>Telephone</b> | +82 31 645 6300   |
| <b>FAX</b>       | +82 31 645 6401   |

## 2. GENERAL INFORMATION

### 2.1 Description of EUT

|                        |                                   |
|------------------------|-----------------------------------|
| <b>FCC ID.</b>         | BEJWR24GA                         |
| <b>Model Name</b>      | WR24GA                            |
| <b>Product Name</b>    | Simple Remote                     |
| <b>Frequency Range</b> | Bluetooth LE: 2402 MHz ~ 2480 MHz |
| <b>Power Rating</b>    | DC 3 V                            |
| <b>Manufacturer</b>    | LG Electronics Inc.               |

### 2.2 Power Source

During the test, the following power supply levels are utilized/provided.;

Power supply: DC 3 V

### 2.3 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

| Device Type         | Model Name   | Serial Number | Manufacturer                  |
|---------------------|--------------|---------------|-------------------------------|
| Simple Remote (EUT) | WR24GA       | -             | LG Electronics Inc.           |
| Bluetooth Dongle    | -            | -             | LG Electronics Inc            |
| Notebook PC         | NT550XEZ     | -             | SAMSUNG Electronics Co., Ltd. |
| Notebook PC Adapter | EP-TA845 001 | -             | SOLUM VINA COMPANY LIMITED    |

### 2.4 Cable Description

| Product Name | Port | Power Cord Shielded (Y/N) | I/O Cable Shielded (Y/N) | Length (m) |
|--------------|------|---------------------------|--------------------------|------------|
| EUT          | -    | N                         | N                        | -          |

“(D)” data cable and “(P)” power cable.

### 2.5 Noise Suppression Parts on Cable (I/O Cable)

| Product Name | Port | Ferrite Bead (Y/N) | Location | Metal Hood (Y/N) | Location |
|--------------|------|--------------------|----------|------------------|----------|
| EUT          | -    | N                  | N/A      | N                | N/A      |

## 2.6 Test Facility

Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014 and ANSI C63.4a-2017

Our laboratories are accredited and designated in accordance with the provisions of Radio Waves ACT and International Standard ISO/IEC 17025:2017. (National Radio Research Agency, CABID No. KR0032)

## 2.7 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017.

## 2.8 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Test Item                           | Test Site (Chamber)          | Expanded Uncertainty |
|-------------------------------------|------------------------------|----------------------|
| Radiated Emission (30 MHz to 1 GHz) | 3 m Semi Anechoic Chamber #1 | 5.8 dB               |
| Radiated Emission (1 GHz to 18 GHz) | 3 m Semi Anechoic Chamber #1 | 4.8 dB               |



### 3. DESCRIPTION OF TEST

#### 3.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).

If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).

Other support units were connected to the power mains through another LISN.

The two LISNs provide  $50 \Omega / 50 \mu\text{H}$  of coupling impedance for the measuring instrument.

b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

c. The frequency ranges from 150 kHz to 30 MHz was searched.

#### Conducted Emission Limits

| Frequency (MHz) | Class A Quasi-Peak (dB $\mu$ V) | Class A Average (dB $\mu$ V) | Class B Quasi-Peak (dB $\mu$ V) | Class B Average (dB $\mu$ V) |
|-----------------|---------------------------------|------------------------------|---------------------------------|------------------------------|
| 0.15 to 0.5     | 79                              | 66                           | 66 to 56*                       | 56 to 46*                    |
| 0.5 to 5        | 73                              | 60                           | 56                              | 46                           |
| 5 to 30         | 73                              | 60                           | 60                              | 50                           |

NOTE. The more stringent limit applies at transition frequencies.

[\*] The limit level in dB $\mu$ V decreases linearly with the logarithm of frequency.

### 3.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. (1 GHz to 40 GHz)

#### Radiated Emission Limits

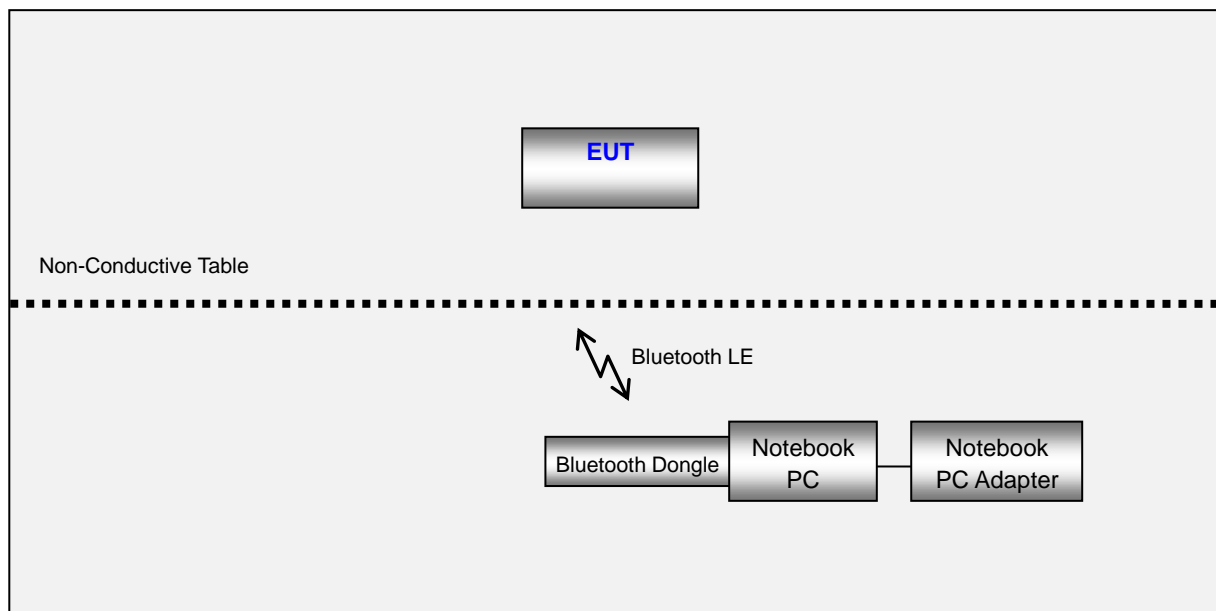
| Frequency (MHz) | Class A              |                       |                     | Class B              |                       |                     |
|-----------------|----------------------|-----------------------|---------------------|----------------------|-----------------------|---------------------|
|                 | Antenna Distance (m) | Field Strength (µV/m) | Quasi-Peak (dBµV/m) | Antenna Distance (m) | Field Strength (µV/m) | Quasi-Peak (dBµV/m) |
| 30 to 88        | 10                   | 90                    | 39.0                | 3                    | 100                   | 40.0                |
| 88 to 216       | 10                   | 150                   | 43.5                | 3                    | 150                   | 43.5                |
| 216 to 960      | 10                   | 210                   | 46.4                | 3                    | 200                   | 46.0                |
| Above 960       | 10                   | 300                   | 49.5                | 3                    | 500                   | 54.0                |
| Frequency (MHz) | Antenna Distance (m) | Class A               |                     | Class B              |                       |                     |
|                 |                      | Peak (dBµV/m)         | Average (dBµV/m)    | Peak (dBµV/m)        | Average (dBµV/m)      |                     |
| Above 1 000     | 3                    | 80                    | 60                  | 74                   | 54                    |                     |

### Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                          |
|--|---|
| Below 1.705  | 30  |
| 1.705 to 108   | 1 000   |
| 108 to 500   | 2 000   |
| 500 to 1 000   | 5 000   |
| Above 1 000  | 5th harmonic of the highest frequency or 40 GHz, whichever is lower |

### 3.3 Configuration of Tested System



#### 4. OPERATION OF THE EUT

During preliminary test and final tests, the following operating mode was investigated.  
It was tested the following operating mode, after connecting all peripheral devices.

**Operating Mode:**

**Bluetooth LE + Voice Operating Mode**

The EUT and the Bluetooth dongle are in continuous communication, and the EUT was tested under voice recognition with the microphone running.

**NOTE.**

This product uses built-in battery as power source.(AAA alkaline batteries 1.5 V \* 2 EA)

### 5. MEASURING INSTRUMENTS

| Type                                 | Model Name        | Manufacturer | Serial Number   | Calibration Cycle | Next Calibration Date |
|--------------------------------------|-------------------|--------------|-----------------|-------------------|-----------------------|
| <b>Conducted emission</b>            |                   |              |                 |                   |                       |
| <input type="checkbox"/>             | LISN              | ENV4200      | Rohde & Schwarz | 100054            | 1 year<br>01.09.2025  |
| <input type="checkbox"/>             | LISN              | ENV216       | Rohde & Schwarz | 102246            | 1 year<br>11.20.2024  |
| <input type="checkbox"/>             | LISN              | ENV216       | Rohde & Schwarz | 100073            | 1 year<br>05.07.2025  |
| <input type="checkbox"/>             | Software          | EMC32        | Rohde & Schwarz | -                 | -                     |
| <b>Radiated emission below 1 GHz</b> |                   |              |                 |                   |                       |
| <input checked="" type="checkbox"/>  | EMI Test Receiver | ESU40        | Rohde & Schwarz | 100524            | 1 year<br>05.07.2025  |
| <input checked="" type="checkbox"/>  | Bilog Antenna     | VULB9168     | Schwarzbeck     | 255               | 2 year<br>03.10.2025  |
| <input checked="" type="checkbox"/>  | Antenna master    | MA4640-XP-ET | INNCO SYSTEM    | -                 | N/A<br>-              |
| <input checked="" type="checkbox"/>  | Turn Table        | 1060         | INNCO SYSTEM    | -                 | N/A<br>-              |
| <input type="checkbox"/>             | DC Power Supply   | PWS-3003D    | Protek          | 04050810          | 1 year<br>11.10.2024  |
| <input checked="" type="checkbox"/>  | Software          | EMC32        | Rohde & Schwarz | -                 | -                     |
| <b>Radiated emission above 1 GHz</b> |                   |              |                 |                   |                       |
| <input checked="" type="checkbox"/>  | EMI test receiver | ESU40        | Rohde & Schwarz | 100524            | 1 year<br>05.07.2025  |
| <input checked="" type="checkbox"/>  | Horn Antenna      | HF907        | Rohde & Schwarz | 103160            | 1 year<br>10.16.2024  |
| <input checked="" type="checkbox"/>  | Power Amplifier   | TK-PA18H     | TESTEK          | 170034-L          | 1 year<br>11.01.2024  |
| <input type="checkbox"/>             | Horn Antenna      | BBHA 9170    | Schwarzbeck     | BBHA 9170 #786    | 1 year<br>11.01.2024  |
| <input type="checkbox"/>             | Power Amplifier   | TK-PA1840H   | TESTEK          | 170030-L          | 1 year<br>02.20.2025  |
| <input checked="" type="checkbox"/>  | Antenna master    | MA4640-XP-ET | INNCO SYSTEM    | -                 | N/A<br>-              |
| <input checked="" type="checkbox"/>  | Turn Table        | 1060         | INNCO SYSTEM    | -                 | N/A<br>-              |
| <input type="checkbox"/>             | DC Power Supply   | PWS-3003D    | Protek          | 04050810          | 1 year<br>11.10.2024  |
| <input checked="" type="checkbox"/>  | Software          | EMC32        | Rohde & Schwarz | -                 | -                     |

## 6. EMISSION TEST SUMMARY

### 6.1 Conducted Emission (Not Applicable)

#### 6.1.1 Operating Condition

The test results of conducted emission at mains ports provide the following information:

|                           |   |
|---------------------------|---|
| <b>Test Standard Used</b> | FCC CFR 47 PART 15 Subpart B Class B<br>ANSI C63.4-2014 |
| <b>Frequency Range</b>    | 0.15 MHz to 30 MHz                                      |
| <b>Detector</b>           | Quasi-Peak, CISPR-Average                               |
| <b>Bandwidth</b>          | 9 kHz (6 dB)  |
| <b>Test Site</b>          | EMI Shield Room   |
| <b>Temperature</b>        | min. - °C, max. - °C                                    |
| <b>Relative Humidity</b>  | min. - %, max. - %                                      |
| <b>Test Date</b>          | ---   |

A Conducted emission is calculated by the following equation:

$$\begin{aligned} \text{Calculation Formula: } & \text{QuasiPeak or CAverage} = \text{Receiver Reading} + \text{Corr.} \\ & \text{Corr.} = \text{LISN Factor} + \text{Cable Loss} \\ & \text{Margin} = \text{Limit} - \text{QuasiPeak or CAverage} \end{aligned}$$

The measurements from both Live (L1) and Neutral (N) of the LISN are combined into a single graph.

#### REMARK.

Since this product uses batteries, this test does not apply.

#### 6.1.2 Measurement Data

Not applicable

## 6.2 Radiated Emission Below 1 GHz

### 6.2.1 Operating Condition

The test results of radiated emission provide the following information:

|                           |   |
|---------------------------|---|
| <b>Used Test Standard</b> | FCC CFR 47 PART 15 Subpart B Class B<br>ANSI C63.4-2014 |
| <b>Frequency Range</b>    | 30 MHz to 1 000 MHz                                     |
| <b>Detector</b>           | Quasi-Peak  |
| <b>Bandwidth</b>          | 120 kHz (6 dB)  |
| <b>Antenna Height</b>     | 1 m to 4 m  |
| <b>Antenna Polarity</b>   | Horizontal, Vertical                                    |
| <b>Operating Mode</b>     | Bluetooth LE + Voice Operating Mode                     |
| <b>Test Site</b>          | 3 m Semi Anechoic Chamber #1                            |
| <b>Temperature</b>        | min. 22.8 °C, max. 25.3 °C                              |
| <b>Relative Humidity</b>  | min. 42.5 %, max. 45.7 %                                |
| <b>Test Date</b>          | 07.17.2024  |

A field strength is calculated by the following equation.

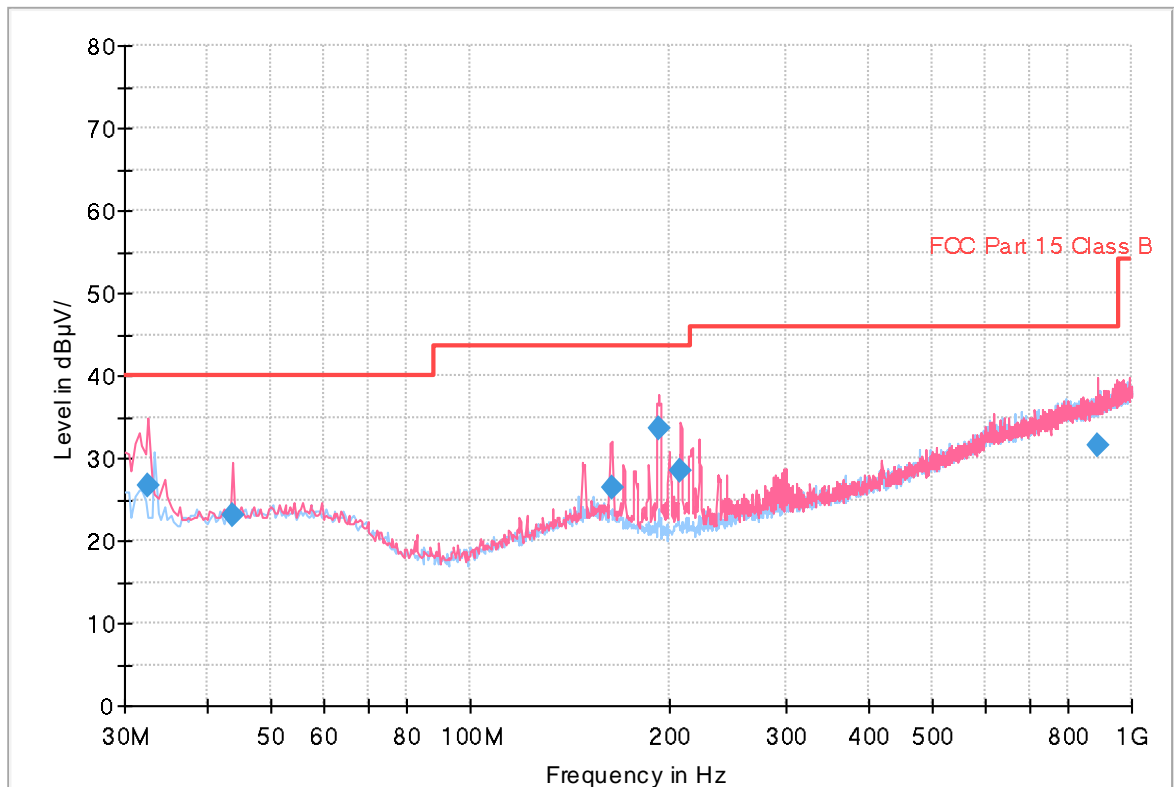
$$\begin{aligned} \text{Calculation Formula: } \quad & \text{QuasiPeak} = \text{Reading (Receiver Reading)} + \text{Corr.} \\ & \text{Corr. (Correction Factor)} = \text{Antenna Factor} + \text{Cable Loss} \\ & \text{Margin} = \text{Limit} - \text{QuasiPeak} \end{aligned}$$

The measurements' polarities are H and V, where H means horizontal and V means vertical.

### 5.2.2 Measurement Data

Bluetooth LE + Voice Operating Mode

Full Spectrum



— Preview Result 1H-PK+     — Preview Result 1V-PK+  
— FCC Part 15 Class B     ◆ Final Result QPK

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-------------|-----|---------------|------------|
| 32.6534         | 26.70              | 40.00          | 13.30       | 199.8       | V   | 241.0         | 18.9       |
| 43.8215         | 23.20              | 40.00          | 16.80       | 321.9       | V   | 106.0         | 19.9       |
| 163.9754        | 26.42              | 43.50          | 17.08       | 125.3       | V   | 202.0         | 19.6       |
| 192.9866        | 33.70              | 43.50          | 9.80        | 100.0       | V   | 0.0           | 17.5       |
| 207.9801        | 28.56              | 43.50          | 14.94       | 100.0       | V   | 192.0         | 17.5       |
| 887.7402        | 31.50              | 46.00          | 14.50       | 100.0       | V   | 3.0           | 31.4       |



### 6.3 Radiated Emission Above 1 GHz

#### 6.3.1 Operating Condition

The test results of radiated emission provide the following information:

|                               |   |
|-------------------------------|---|
| <b>Used Test Standard</b>     | FCC CFR 47 PART 15 Subpart B Class B<br>ANSI C63.4-2014 |
| <b>Detector</b>               | Peak, CISPR-Average                                     |
| <b>Bandwidth</b>              | 1 MHz   |
| <b>Highest Frequency</b>      | 2480 MHz  |
| <b>Tested Frequency Range</b> | 1 GHz to 18 GHz   |
| <b>Antenna Height</b>         | 1 m to 4 m  |
| <b>Antenna Polarity</b>       | Horizontal, Vertical                                    |
| <b>Operating Mode</b>         | Bluetooth LE + Voice Operating Mode                     |
| <b>Test Site</b>              | 3 m Semi Anechoic Chamber #1                            |
| <b>Temperature</b>            | min. 23.1 °C, max. 25.6 °C                              |
| <b>Relative Humidity</b>      | min. 41.8 %, max. 45.1 %                                |
| <b>Test Date</b>              | 07.18.2024  |

A field strength is calculated by the following equation.

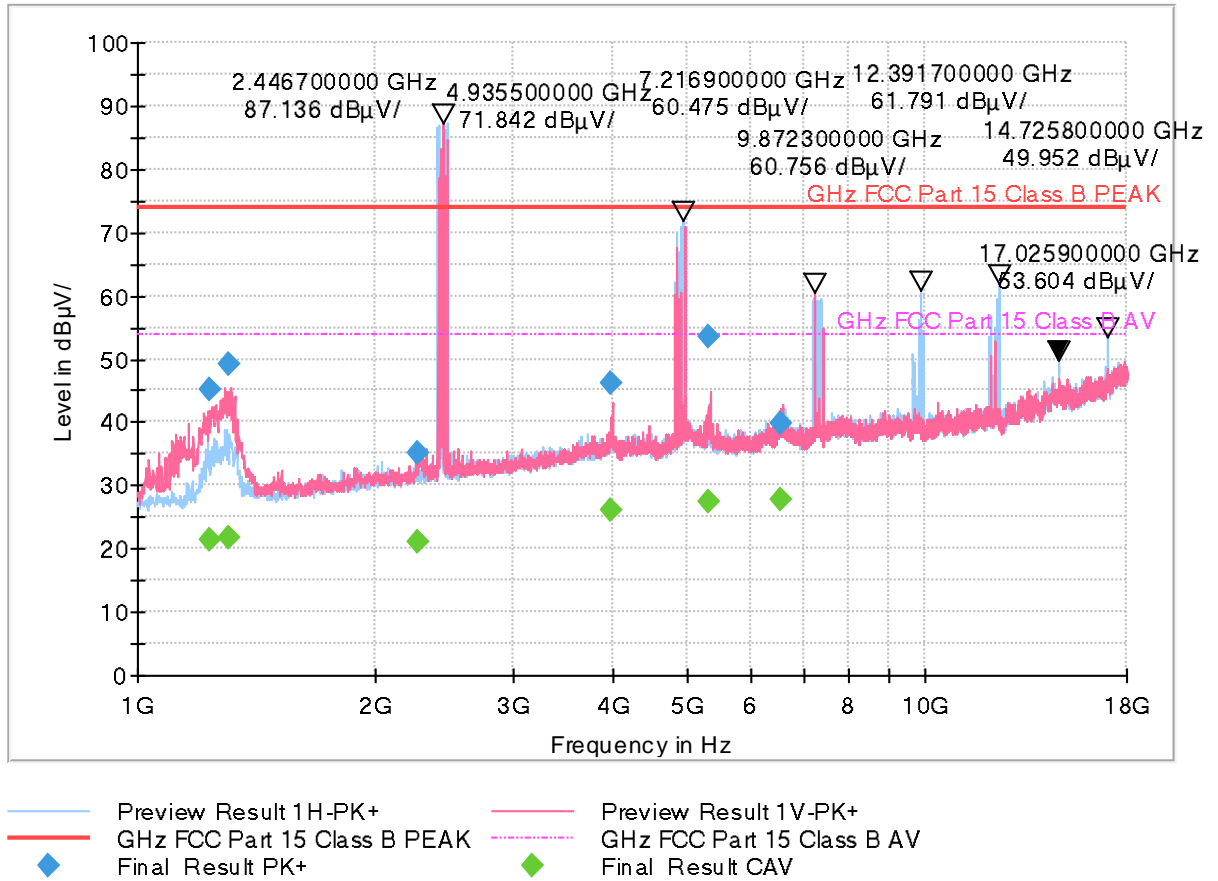
$$\begin{aligned} \text{Calculation Formula:} \quad & \text{Peak or CAverage} = \text{Reading (Receiver Reading)} + \text{Corr.} \\ & \text{Corr. (Correction Factor)} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain} \\ & \text{Margin} = \text{Limit} - \text{Peak or CAverage} \end{aligned}$$

The measurements' polarities are H and V, where H means horizontal and V means vertical.

### 6.3.2 Measurement Data

Bluetooth LE + Voice Operating Mode

Full Spectrum



**Final\_Result\_PK+**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------------|----------------------|-------------|-------------|-----|---------------|------------|
| 1237.6700       | 45.22                  | 74.00                | 28.78       | 305.8       | V   | 98.0          | -30.3      |
| 1308.6900       | 49.19                  | 74.00                | 24.81       | 116.4       | V   | 327.0         | -30.0      |
| 2261.8350       | 35.21                  | 74.00                | 38.79       | 325.1       | V   | 276.0         | -24.8      |
| 3981.6900       | 46.11                  | 74.00                | 27.89       | 284.5       | V   | 289.0         | -17.7      |
| 5313.4000       | 53.52                  | 74.00                | 20.48       | 198.7       | V   | 186.0         | -14.3      |
| 6568.0150       | 39.83                  | 74.00                | 34.17       | 301.6       | V   | 2.0           | -12.1      |

**Final\_Result\_CAV**

| Frequency (MHz) | CAverage (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|-------------------------|----------------------|-------------|-------------|-----|---------------|------------|
| 1237.6700       | 21.46                   | 54.00                | 32.54       | 305.8       | V   | 98.0          | -30.3      |
| 1308.6900       | 21.83                   | 54.00                | 32.17       | 116.4       | V   | 327.0         | -30.0      |
| 2261.8350       | 20.99                   | 54.00                | 33.01       | 325.1       | V   | 276.0         | -24.8      |
| 3981.6900       | 25.95                   | 54.00                | 28.05       | 284.5       | V   | 289.0         | -17.7      |
| 5313.4000       | 27.58                   | 54.00                | 26.42       | 198.7       | V   | 186.0         | -14.3      |
| 6568.0150       | 27.62                   | 54.00                | 26.38       | 301.6       | V   | 2.0           | -12.1      |

Bluetooth LE Fundamental Frequency: 2.4467 GHz

Bluetooth LE Harmonic Frequency: 4.9355 GHz, 7.2169 GHz, 9.8723 GHz, 12.3917 GHz, 14.7258 GHz, 17.0259 GHz

## 7. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

| <b>File No.</b>     | <b>Date of Issue</b> | <b>Description</b> |
|---------------------|----------------------|--------------------|
| HCT-EM-2407-FC008-P | July 26, 2024        | Initial Release    |

End of report