

# **FCC Test Report**

Report No.: RWAY202300003A

**Applicant:** YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

Address: No.666 Hu'an Rd, Huli District Ximen City, Fujian, P.R. China

Product Name: Room Sensor

Product Model: RoomSensor Pro

Multiple Models: N/A

Trade Mark: Yealink

FCC ID: T2C-RSP

Standards: FCC CFR Title 47 Part 15C (§15.247)

**Test Date:** 2023-11-20 to 2023-12-07

Test Result: Complied

Report Date: 2023-12-08

Reviewed by:

Approved by:

Abel Chen

Abel chen

**Project Engineer** 

Jacob Kong

Jacob Gong

Manager

### Prepared by:

World Alliance Testing and Certification (Shenzhen) Co., Ltd

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This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★"

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# **Revision History**

| Version No. | Issued Date | Description |  |
|-------------|-------------|-------------|--|
| 00          | 2023-12-08  | Original    |  |

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### 1 General Information

### 1.1 Client Information

| Applicant:    | YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.                    |
|---------------|--|
| Address:      | No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China |
| Manufacturer: | YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.                    |
| Address:      | No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China |

### 1.2 Product Description of EUT

The EUT is Room Sensor that contains BLE radios, this report covers the full testing of the BLE radio.

| Sample Serial Number                   | 2DKP-1 for CE&RE test, 2DKP-2 for RF test conducted test (assigned by WATC)  |  |  |
|--|--|--|--|
| Sample Received Date                   | 2023-11-17   |  |  |
| Sample Status                          | Good Condition   |  |  |
| Frequency Range                        | 2402MHz - 2480MHz(BLE1M/2M)  |  |  |
| Maximum Conducted<br>Peak Output Power | 8.60dBm  |  |  |
| Modulation Technology                  | GFSK   |  |  |
| Antenna Gain#                          | 3dBi   |  |  |
| Spatial Streams                        | SISO (1TX, 1RX)  |  |  |
| Power Supply                           | DC 5V from adapter   |  |  |
| Operating temperature#                 | -10 deg.C to +45 deg.C   |  |  |
| Adapter Information                    | Adapter 1:  Model: YLPS051200B1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5V/1.2A Adapter 2: Model: YLPS051200C1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5V/1.2A |  |  |
| Modification                           | Sample No Modification by the test lab   |  |  |

### 1.3 Antenna information

### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Device Antenna information:**

The BLE antenna is an internal antenna which cannot replace by end-user, Please see product internal photos for details.

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### 1.4 Related Submittal(s)/Grant(s)

No related submittal(s)/Grant(s)

### 1.5 Measurement Uncertainty

| Para                   | meter          | Expanded Uncertainty            |  |  |
|------------------------|----------------|---------------------------------|--|--|
|                        |                | (Confidence of 95%(U = 2Uc(y))) |  |  |
| AC Power Lines Condu   | cted Emissions | ±3.14dB                         |  |  |
|                        | Below 30MHz    | ±2.78dB                         |  |  |
| Emissions, Radiated    | Below 1GHz     | ±4.84dB                         |  |  |
|                        | Above 1GHz     | ±5.44dB                         |  |  |
| Conducted Power        |                | 0.74dB                          |  |  |
| Frequency Error        |                | 150Hz                           |  |  |
| Bandwidth              |                | 0.34%                           |  |  |
| Power Spectral Density |                | 0.74dB                          |  |  |

**Note:** The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

## 1.6 Laboratory Location

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: ga@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

# 1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

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### 2 Description of Measurement

### 2.1 Test Configuration

| Operating channels: |                    |             |                    |             |                    |  |  |
|---------------------|--------------------|-------------|--------------------|-------------|--------------------|--|--|
| Channel No.         | Frequency<br>(MHz) | Channel No. | Frequency<br>(MHz) | Channel No. | Frequency<br>(MHz) |  |  |
| 0                   | 2402               | 19          | 2440               | 38          | 2478               |  |  |
| 1                   | 2404               | 20          | 2442               | 39          | 2480               |  |  |
|                     |                    |             |                    | /           | /                  |  |  |
| 18                  | 2438               |             |                    | /           | /                  |  |  |

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

| Lowest channel |                    | Middle channel |                    | Highest channel |                    |
|----------------|--------------------|----------------|--------------------|-----------------|--------------------|
| Channel No.    | Frequency<br>(MHz) | Channel No.    | Frequency<br>(MHz) | Channel No.     | Frequency<br>(MHz) |
| 0              | 2402               | 19             | 2440               | 39              | 2480               |

| Test Mode:   |               |                                  |                |              |  |  |  |
|--|---------------|----------------------------------|----------------|--------------|--|--|--|
| Transmitting mode: Keep the EUT in continuous transmitting with modulation         |               |                                  |                |              |  |  |  |
| Exercise software <sup>#</sup> :   | IWBTestModeTo | IWBTestModeTool.exe              |                |              |  |  |  |
| Mode   | Data rate     | Powel Level Setting <sup>#</sup> |                |              |  |  |  |
| Wode   | Dala Tale     | Low Channel                      | Middle Channel | High Channel |  |  |  |
| BLE 1M   | 1Mbps         | 8                                | 8              | 8            |  |  |  |
| BLE 2M   | 2Mbps         | 2Mbps 6 6 6                      |                |              |  |  |  |
| The exercise software and the maximum power setting that provided by manufacturer. |               |                                  |                |              |  |  |  |

#### **Worst-Case Configuration:**

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

### 2.2 Test Auxiliary Equipment

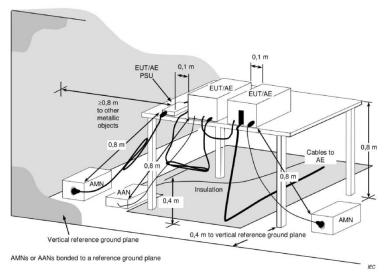
|              | <del>)                                    </del> |            |               |
|--------------|--|------------|---------------|
| Manufacturer | Description                                      | Model      | Serial Number |
| Dell         | Loptop   | P40G       | 3TRHP         |
| Hikvision    | Router   | DS-3WR03-E | 10023216811   |

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### 2.3 Test Setup

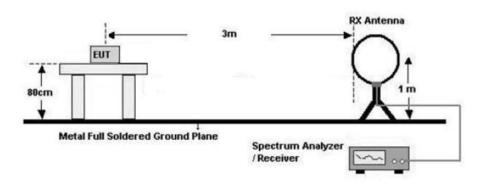
### 1) Conducted emission measurement:

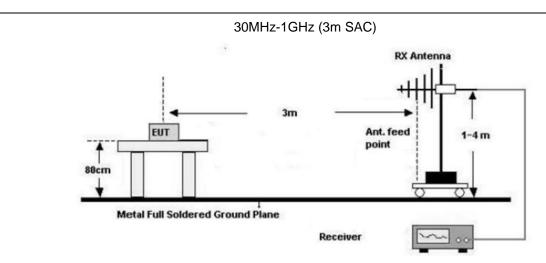


**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

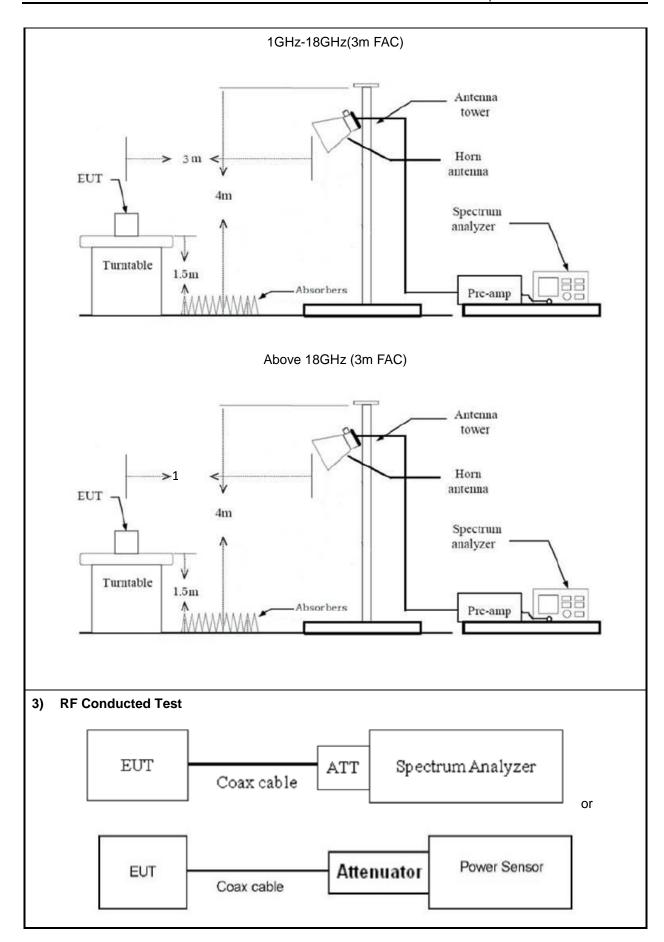
#### 2) Radiated emission measurement:

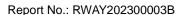
Below 30MHz (3m SAC)













### 2.4 Test Procedure

#### Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
  maximum emission, the relative positions of equipment and all of the interface cables must be
  changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

#### **Radiated Emission Procedure:**

#### a) For below 30MHz

- 1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40\*Log (test distance / specification distance).
- 2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)

### b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

#### c) For above 1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

#### **RF Conducted Test:**

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or

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Spectrum analyzer) through Attenuator and RF cable.

- 2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. ( if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

### 2.5 Measurement Method

| Description of Test                     | Measurement Method                     |  |
|---|--|--|
| AC Line Conducted Emissions             | ANSI C63.10-2020 Section 6.2           |  |
| Maximum Conducted Output Power          | ANSI C63.10-2020 Section 11.9.1.1      |  |
| Power Spectral Density                  | ANSI C63.10-2020 Section 11.10.2       |  |
| 6 dB Emission Bandwidth                 | ANSI C63.10-2020 Section 11.8.1        |  |
| 99% Occupied Bandwidth                  | ANSI C63.10-2020 Section 6.9.3         |  |
| 100kHz Bandwidth of Frequency Band Edge | ANSI C63.10-2020 Section 6.10          |  |
| Radiated emission                       | ANSI C63.10-2020 Section 11.11&11.12.1 |  |
| Duty Cycle                              | ANSI C63.10-2020 Section 11.6          |  |

### 2.6 Measurement Equipment

| Manufacturer | Description                     | Model             | Manageme nt No. | Calibration<br>Date | Calibration<br>Due Date |  |  |
|--------------|---------------------------------|-------------------|-----------------|---------------------|-------------------------|--|--|
|              | AC Line Conducted Emission Test |                   |                 |                     |                         |  |  |
| ROHDE&       | EMI TEST                        | ECD               | 404047          | 2022/7/2            | 2024/7/2                |  |  |
| SCHWARZ      | RECEIVER                        | ESR               | 101817          | 2023/7/3            | 2024/7/2                |  |  |
| R&S          | LISN                            | ENV216            | 101748          | 2023/7/3            | 2024/7/2                |  |  |
| N/A          | Coaxial Cable                   | NO.12             | N/A             | 2023/7/3            | 2024/7/2                |  |  |
| Corod        | Test Software                   | EZ-EMC            | Ver.            | /                   | /                       |  |  |
| Farad        |                                 |                   | EMEC-3A1        |                     |                         |  |  |
|              |                                 | Radiated Emission | on Test         |                     |                         |  |  |
| R&S          | EMI test                        | ESR3              | 102758          | 2023/7/3            | 2024/7/2                |  |  |
| Νασ          | receiver                        | LONS              | 102738          |                     |                         |  |  |
| ROHDE&       | SPECTRUM                        | EC)/40 N          | 101600          | 2022/7/2            | 2024/7/2                |  |  |
| SCHWARZ      | ANALYZER                        | FSV40-N           | 101608          | 2023/7/3            | 2024/7/2                |  |  |
| SONOMA       | Low frequency                   | 240               | 100014          | 2022/7/42           | 2024/7/44               |  |  |
| INSTRUMENT   | amplifier                       | 310               | 186014          | 2023/7/12           | 2024/7/11               |  |  |

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| COM-POWER             | preamplifier                          | PAM-118A                 | 18040152       | 2023/8/21 | 2024/8/20 |
|-----------------------|---------------------------------------|--------------------------|----------------|-----------|-----------|
| COM-POWER             | Amplifier                             | PAM-840A                 | 461306         | 2023/8/8  | 2024/8/7  |
| ETS                   | Passive Loop<br>Antenna               | 6512                     | 29604          | 2023/7/7  | 2024/7/6  |
| SCHWARZBECK           | Log - periodic<br>wideband<br>antenna | VULB 9163                | 9163-872       | 2023/7/7  | 2024/7/6  |
| Astro Antenna Ltd     | Horn antenna                          | AHA-118S                 | 3015           | 2023/7/6  | 2024/7/5  |
| Ducommun technologies | Horn Antenna                          | ARH-4223-02              | 1007726-03     | 2023/7/10 | 2024/7/9  |
| Oulitong              | Band Reject<br>Filter                 | OBSF-2400-2<br>483.5-50N | OE0210311<br>9 | 2023/9/15 | 2024/9/14 |
| N/A                   | Coaxial Cable                         | N/A                      | NO.9           | 2023/8/8  | 2024/8/7  |
| N/A                   | Coaxial Cable                         | N/A                      | NO.10          | 2023/8/8  | 2024/8/7  |
| N/A                   | Coaxial Cable                         | N/A                      | NO.11          | 2023/8/8  | 2024/8/7  |
| Audix                 | Test Software                         | E3                       | 191218 V9      | /         | /         |
|                       |                                       | RF Conducted             | Test           |           |           |
| ROHDE&<br>SCHWARZ     | SPECTRUM<br>ANALYZER                  | FSU-26                   | 200680/026     | 2023/7/12 | 2024/7/11 |
| narda                 | 6dB attenuator                        | 603-06-1                 | N/A            | 2023/7/26 | 2024/7/25 |

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



# 3 Test Results

### 3.1 Test Summary

| FCC Rules                    | Description of Test                     | Result      |
|------------------------------|---|-------------|
| §15.203                      | Antenna Requirement                     | Compliance  |
| §15.207 (a)                  | AC Line Conducted Emissions             | Compliance  |
| §15.247(b)(3)                | Maximum Conducted Output Power          | Compliance  |
| §15.247(e)                   | Power Spectral Density                  | Compliance  |
| §15.247 (a)(2)               | 6 dB Emission Bandwidth                 | Compliance  |
| -                            | 99% Occupied Bandwidth                  | Report only |
| §15.247(d)                   | 100kHz Bandwidth of Frequency Band Edge | Compliance  |
| §15.205, §15.209, §15.247(d) | Radiated emission                       | Compliance  |
| -                            | Duty Cycle                              | Report only |



# 3.2 Limit

| Test items  | Limit  |
|---|--|
| AC Line Conducted Emissions                                       | See details §15.207 (a)  |
| Conducted Output Power  | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.   |
| 6dB Emission Bandwidth  | The minimum 6 dB bandwidth shall be at least 500 kHz.  |
| Power Spectral Density  | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.  |
| Spurious Emissions,<br>100kHz Bandwidth of Frequency<br>Band Edge | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |

Air Pressure:

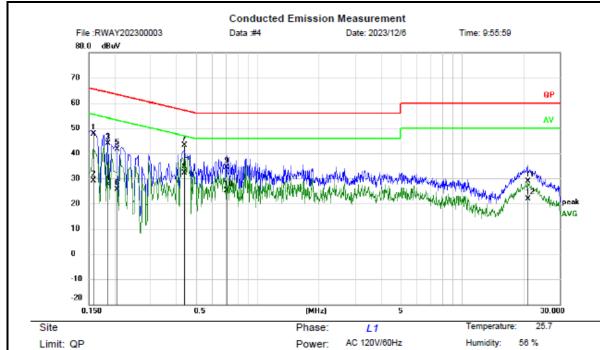
1011 hpa



### 3.3 AC Line Conducted Emissions Test Data

| Test Date:             | 2023-12-06                    | Test By:               | Lirou Li        |
|------------------------|-------------------------------|------------------------|-----------------|
| Environment condition: | Temperature: 25.7°C; Relative | Humidity: 56%; ATM Pre | ssure: 101.1kPa |

### With adapter YLPS051200B1-US



Limit: QP

EUT: Room Sensor M/N: RoomSensor Pro

Mode: transmit

Note: 1M low channel(B1-US)

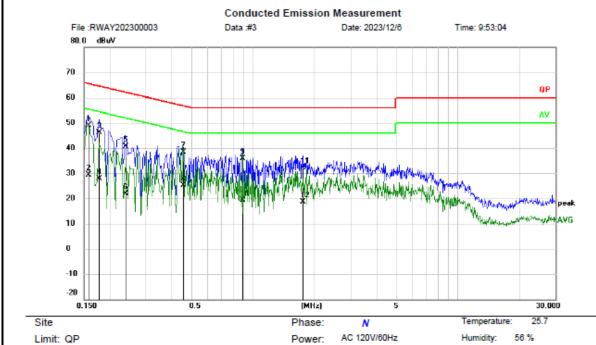
| No. Mk. | Freq.   | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over<br>Limit |          |         |
|---------|---------|------------------|-------------------|------------------|-------|---------------|----------|---------|
|         | MHz     | dBuV             | dB                | dBuV             | dBuV  | dB            | Detector | Comment |
| 1       | 0.1580  | 36.85            | 10.78             | 47.63            | 65.57 | -17.94        | QP       |         |
| 2       | 0.1580  | 18.37            | 10.78             | 29.15            | 55.57 | -26.42        | AVG      |         |
| 3       | 0.1860  | 33.26            | 10.67             | 43.93            | 64.21 | -20.28        | QP       |         |
| 4       | 0.1860  | 16.91            | 10.67             | 27.58            | 54.21 | -26.63        | AVG      |         |
| 5       | 0.2060  | 30.92            | 10.61             | 41.53            | 63.37 | -21.84        | QP       |         |
| 6       | 0.2060  | 15.06            | 10.61             | 25.67            | 53.37 | -27.70        | AVG      |         |
| 7 *     | 0.4380  | 32.29            | 10.79             | 43.08            | 57.10 | -14.02        | QP       |         |
| 8       | 0.4380  | 21.30            | 10.79             | 32.09            | 47.10 | -15.01        | AVG      |         |
| 9       | 0.7060  | 23.51            | 10.86             | 34.37            | 56.00 | -21.63        | QP       |         |
| 10      | 0.7060  | 14.25            | 10.86             | 25.11            | 46.00 | -20.89        | AVG      |         |
| 11      | 20.9140 | 18.33            | 10.52             | 28.85            | 60.00 | -31.15        | QP       |         |
| 12      | 20.9140 | 11.44            | 10.52             | 21.96            | 50.00 | -28.04        | AVG      |         |

\*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Air Pressure:

1011 hpa





Limit: QP

EUT: Room Sensor

M/N: RoomSensor Pro Mode: transmit

Note: 1M low channel(B1-US)

| No. | Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over<br>Limit |          |         |
|-----|-----|--------|------------------|-------------------|------------------|-------|---------------|----------|---------|
|     |     | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB            | Detector | Comment |
| 1   | *   | 0.1580 | 38.29            | 10.58             | 48.87            | 65.57 | -16.70        | QP       |         |
| 2   |     | 0.1580 | 18.90            | 10.58             | 29.48            | 55.57 | -26.09        | AVG      |         |
| 3   |     | 0.1780 | 35.54            | 10.50             | 46.04            | 64.58 | -18.54        | QP       |         |
| 4   |     | 0.1780 | 17.45            | 10.50             | 27.95            | 54.58 | -26.63        | AVG      |         |
| 5   |     | 0.2380 | 30.08            | 10.46             | 40.54            | 62.17 | -21.63        | QP       |         |
| 6   |     | 0.2380 | 11.44            | 10.46             | 21.90            | 52.17 | -30.27        | AVG      |         |
| 7   |     | 0.4580 | 27.71            | 10.69             | 38.40            | 56.73 | -18.33        | QP       |         |
| 8   |     | 0.4580 | 14.47            | 10.69             | 25.16            | 46.73 | -21.57        | AVG      |         |
| 9   |     | 0.8900 | 25.24            | 10.63             | 35.87            | 56.00 | -20.13        | QP       |         |
| 10  |     | 0.8900 | 8.87             | 10.63             | 19.50            | 46.00 | -26.50        | AVG      |         |
| 11  |     | 1.7540 | 21.48            | 10.68             | 32.16            | 56.00 | -23.84        | QP       |         |
| 12  |     | 1.7540 | 7.95             | 10.68             | 18.63            | 46.00 | -27.37        | AVG      |         |

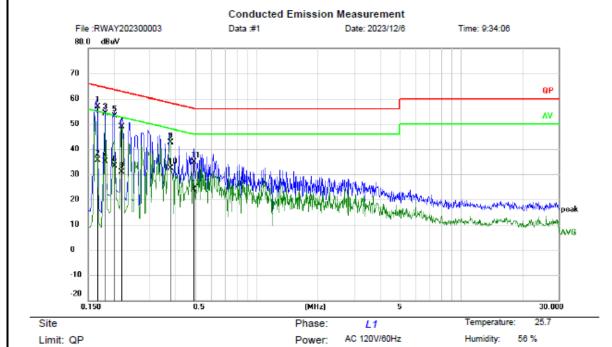
Engineer Signature: Lirou x:Over limit \*:Maximum data !:over margin

Air Pressure:

1011 hpa



### With adapter YLPS051200C1-US



EUT: Room Sensor M/N: RoomSensor Pro

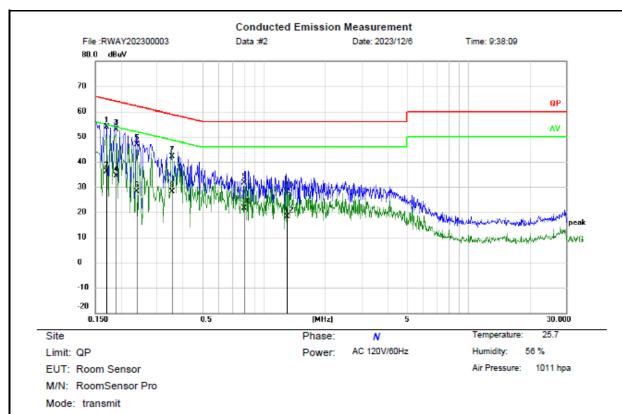
Mode: transmit

Note: 1M low channel(C1-US)

| No. | Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over<br>Limit |          |         |
|-----|-----|--------|------------------|-------------------|------------------|-------|---------------|----------|---------|
|     |     | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB            | Detector | Comment |
| 1   | *   | 0.1660 | 46.03            | 10.75             | 56.78            | 65.16 | -8.38         | QP       |         |
| 2   |     | 0.1660 | 24.91            | 10.75             | 35.66            | 55.16 | -19.50        | AVG      |         |
| 3   |     | 0.1819 | 43.50            | 10.68             | 54.18            | 64.40 | -10.22        | QP       |         |
| 4   |     | 0.1819 | 24.47            | 10.68             | 35.15            | 54.40 | -19.25        | AVG      |         |
| 5   |     | 0.2020 | 42.42            | 10.61             | 53.03            | 63.53 | -10.50        | QP       |         |
| 6   |     | 0.2020 | 22.81            | 10.61             | 33.42            | 53.53 | -20.11        | AVG      |         |
| 7   |     | 0.2180 | 38.16            | 10.63             | 48.79            | 62.89 | -14.10        | QP       |         |
| 8   |     | 0.2180 | 20.30            | 10.63             | 30.93            | 52.89 | -21.96        | AVG      |         |
| 9   |     | 0.3780 | 31.81            | 10.77             | 42.58            | 58.32 | -15.74        | QP       |         |
| 10  |     | 0.3780 | 21.54            | 10.77             | 32.31            | 48.32 | -16.01        | AVG      |         |
| 11  |     | 0.4940 | 24.12            | 10.81             | 34.93            | 56.10 | -21.17        | QP       |         |
| 12  |     | 0.4940 | 13.11            | 10.81             | 23.92            | 46.10 | -22.18        | AVG      |         |

\*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou





Note: 1M low channel(C1-US)

| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over<br>Limit |          |         |
|---------|--------|------------------|-------------------|------------------|-------|---------------|----------|---------|
|         | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB            | Detector | Comment |
| 1 *     | 0.1700 | 43.25            | 10.53             | 53.78            | 64.96 | -11.18        | QP       |         |
| 2       | 0.1700 | 25.56            | 10.53             | 36.09            | 54.96 | -18.87        | AVG      |         |
| 3       | 0.1900 | 42.34            | 10.45             | 52.79            | 64.04 | -11.25        | QP       |         |
| 4       | 0.1900 | 23.92            | 10.45             | 34.37            | 54.04 | -19.67        | AVG      |         |
| 5       | 0.2380 | 36.46            | 10.46             | 46.92            | 62.17 | -15.25        | QP       |         |
| 6       | 0.2380 | 17.68            | 10.46             | 28.14            | 52.17 | -24.03        | AVG      |         |
| 7       | 0.3540 | 31.41            | 10.60             | 42.01            | 58.87 | -16.86        | QP       |         |
| 8       | 0.3540 | 17.49            | 10.60             | 28.09            | 48.87 | -20.78        | AVG      |         |
| 9       | 0.8020 | 21.03            | 10.60             | 31.63            | 56.00 | -24.37        | QP       |         |
| 10      | 0.8020 | 11.03            | 10.60             | 21.63            | 46.00 | -24.37        | AVG      |         |
| 11      | 1.2900 | 17.55            | 10.67             | 28.22            | 56.00 | -27.78        | QP       |         |
| 12      | 1.2900 | 7.44             | 10.67             | 18.11            | 46.00 | -27.89        | AVG      |         |

\*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

### Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over = Measurement - Limit





### 3.4 Radiated emission Test Data

### 9 kHz-30MHz:

| Test Date:             | 2023-12-07   | Test By: | Luke Li |  |  |  |  |
|------------------------|--|----------|---------|--|--|--|--|
| Environment condition: | Temperature: 24°C; Relative Humidity:42%; ATM Pressure: 101kPa |          |         |  |  |  |  |

For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

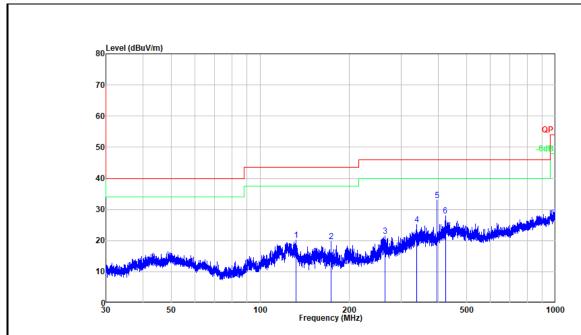
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### 30MHz-1GHz:

| Test Date:             | 2023-12-07                    | Test By:               | Luke Li     |
|------------------------|-------------------------------|------------------------|-------------|
| Environment condition: | Temperature: 24°C; Relative H | umidity:42%; ATM Press | ure: 101kPa |

### With adapter YLPS051200B1-US

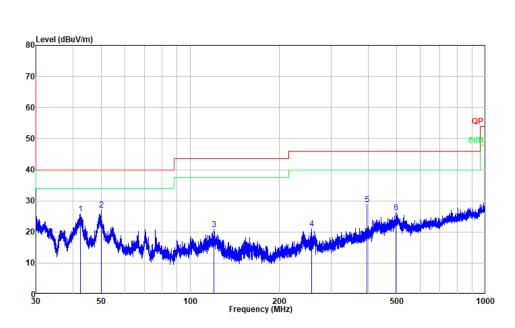


EUT/Model No.: RoomSensor Pro Test Mode : Transmitting Test Voltage : AC 120V/60Hz Environment : 24°C/42°R.H./101kPa
Tested by : Luke Li
Polarization : horizontal

Remark : BLE 1M Low Channel

| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Over Limit<br>(dB) | Detector |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|
|     |                    |                   |                  |                    |                   |                    |          |
| 1   | 132.395            | 37.23             | -17.17           | 20.06              | 43.50             | -23.44             | Peak     |
| 2   | 173.357            | 35.64             | -15.98           | 19.66              | 43.50             | -23.84             | Peak     |
| 3   | 264.166            | 33.32             | -11.91           | 21.41              | 46.00             | -24.59             | Peak     |
| 4   | 339.291            | 34.94             | -9.73            | 25.21              | 46.00             | -20.79             | Peak     |
| 5   | 396.068            | 41.43             | -8.45            | 32.98              | 46.00             | -13.02             | Peak     |
| 6   | 423.355            | 35.87             | -7.95            | 27.92              | 46.00             | -18.08             | Peak     |





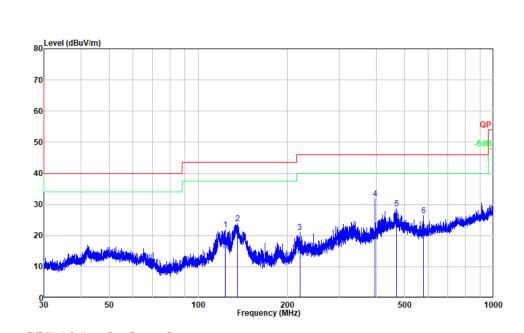
EUT/Model No.: RoomSensor Pro Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24°C/42%R.H./101kPa
Tested by : Luke Li
Polarization : vertical

Remark : BLE 1M Low Channel

| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Over Limit<br>(dB) | Detector |  |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|--|
|     |                    |                   |                  |                    |                   |                    |          |  |
| 1   | 42.544             | 37.91             | -12.22           | 25.69              | 40.00             | -14.31             | Peak     |  |
| 2   | 50.035             | 39.03             | -11.97           | 27.06              | 40.00             | -12.94             | Peak     |  |
| 3   | 120.382            | 36.39             | -15.67           | 20.72              | 43.50             | -22.78             | Peak     |  |
| 4   | 257.309            | 33.08             | -12.05           | 21.03              | 46.00             | -24.97             | Peak     |  |
| 5   | 396.068            | 37.22             | -8.45            | 28.77              | 46.00             | -17.23             | Peak     |  |
| 6   | 495.934            | 33.07             | -6.83            | 26.24              | 46.00             | -19.76             | Peak     |  |



### With adapter YLPS051200C1-US



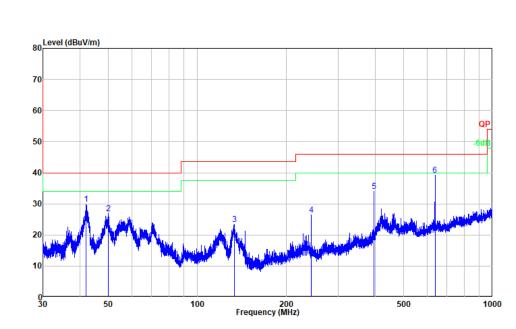
EUT/Model No.: RoomSensor Pro
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24°C/42%R.H./101kPa
Tested by : Luke Li

Polarization : horizontal

Remark : BLE 1M Low Channel

| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Over Limit<br>(dB) | Detector |  |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|--|
|     |                    |                   |                  |                    |                   |                    |          |  |
| 1   | 123.211            | 38.03             | -16.21           | 21.82              | 43.50             | -21.68             | Peak     |  |
| 2   | 135.566            | 41.06             | -17.27           | 23.79              | 43.50             | -19.71             | Peak     |  |
| 3   | 220.617            | 34.37             | -13.37           | 21.00              | 46.00             | -25.00             | Peak     |  |
| 4   | 396.068            | 40.41             | -8.45            | 31.96              | 46.00             | -14.04             | Peak     |  |
| 5   | 469.699            | 36.29             | -7.60            | 28.69              | 46.00             | -17.31             | Peak     |  |
| 6   | 577.656            | 31.73             | -5.35            | 26.38              | 46.00             | -19.62             | Peak     |  |





EUT/Model No.: RoomSensor Pro Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24°C/42%R.H./101kPa
Tested by : Luke Li

Polarization : vertical

: BLE 1M Low Channel Remark

| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Over Limit<br>(dB) | Detector |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|
|     |                    |                   |                  |                    |                   |                    |          |
| 1   | 42.043             | 42.22             | -12.26           | 29.96              | 40.00             | -10.04             | Peak     |
| 2   | 49.991             | 38.92             | -11.97           | 26.95              | 40.00             | -13.05             | Peak     |
| 3   | 133.210            | 40.73             | -17.22           | 23.51              | 43.50             | -19.99             | Peak     |
| 4   | 242.632            | 38.92             | -12.40           | 26.52              | 46.00             | -19.48             | Peak     |
| 5   | 396.068            | 42.51             | -8.45            | 34.06              | 46.00             | -11.94             | Peak     |
| 6   | 638.089            | 43.19             | -4.01            | 39.18              | 46.00             | -6.82              | Peak     |

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

### Remark:

Level = Reading + Factor

Factor = Antenna factor + Cable loss - Amplifier gain

 $Over\ \mathit{Limit} = \mathit{Level} - \mathit{Limit}$ 



### Above 1GHz:

| Test Date:   | 2023-11-20 | Test By:              | Luke Li       |
|--|------------|-----------------------|---------------|
| Environment condition: Temperature: 24°C; Relative H |            | umidity:42%; ATM Pres | ssure: 101kPa |

| Frequency<br>(MHz) | Reading<br>level<br>(dBµV) | Polar      | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBµV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) | Remark  |  |  |
|--------------------|----------------------------|------------|-------------------------------|------------------------------------|-------------------|----------------|---------|--|--|
|                    |                            |            | BLE                           | 1M                                 |                   |                |         |  |  |
|                    | Low Channel                |            |                               |                                    |                   |                |         |  |  |
| 2390.000           | 36.46                      | horizontal | 7.55                          | 44.01                              | 54.00             | -9.99          | Average |  |  |
| 2390.000           | 48.11                      | horizontal | 7.55                          | 55.66                              | 74.00             | -18.34         | Peak    |  |  |
| 2390.000           | 36.42                      | vertical   | 7.55                          | 43.97                              | 54.00             | -10.03         | Average |  |  |
| 2390.000           | 48.46                      | vertical   | 7.55                          | 56.01                              | 74.00             | -17.99         | Peak    |  |  |
| 4804.000           | 40.66                      | horizontal | -0.29                         | 40.37                              | 54.00             | -13.63         | Average |  |  |
| 4804.000           | 48.79                      | horizontal | -0.29                         | 48.50                              | 74.00             | -25.50         | Peak    |  |  |
| 4804.000           | 36.94                      | vertical   | -0.29                         | 36.65                              | 54.00             | -17.35         | Average |  |  |
| 4804.000           | 47.80                      | vertical   | -0.29                         | 47.51                              | 74.00             | -26.49         | Peak    |  |  |
|                    |                            | , ,        | Middle C                      | hannel                             |                   |                |         |  |  |
| 4880.000           | 39.96                      | horizontal | 0.11                          | 40.07                              | 54.00             | -13.93         | Average |  |  |
| 4880.000           | 49.33                      | horizontal | 0.11                          | 49.44                              | 74.00             | -24.56         | Peak    |  |  |
| 4880.000           | 37.72                      | vertical   | 0.11                          | 37.83                              | 54.00             | -16.17         | Average |  |  |
| 4880.000           | 46.69                      | vertical   | 0.11                          | 46.80                              | 74.00             | -27.20         | Peak    |  |  |
|                    |                            | , ,        | High Ch                       | annel                              | <del>,</del> ,    |                |         |  |  |
| 2483.500           | 43.84                      | horizontal | 7.57                          | 51.41                              | 54.00             | -2.59          | Average |  |  |
| 2483.500           | 55.34                      | horizontal | 7.57                          | 62.91                              | 74.00             | -11.09         | Peak    |  |  |
| 2483.500           | 40.09                      | vertical   | 7.57                          | 47.66                              | 54.00             | -6.34          | Average |  |  |
| 2483.500           | 53.87                      | vertical   | 7.57                          | 61.44                              | 74.00             | -12.56         | Peak    |  |  |
| 4960.000           | 38.31                      | horizontal | 0.45                          | 38.76                              | 54.00             | -15.24         | Average |  |  |
| 4960.000           | 46.46                      | horizontal | 0.45                          | 46.91                              | 74.00             | -27.09         | Peak    |  |  |
| 4960.000           | 37.82                      | vertical   | 0.45                          | 38.27                              | 54.00             | -15.73         | Average |  |  |
| 4960.000           | 46.38                      | vertical   | 0.45                          | 46.83                              | 74.00             | -27.17         | Peak    |  |  |



| BLE 2M   |                  |            |          |        |       |        |         |  |  |  |
|----------|------------------|------------|----------|--------|-------|--------|---------|--|--|--|
|          | Low Channel      |            |          |        |       |        |         |  |  |  |
| 2390.000 | 35.36 horizontal |            | 7.55     | 42.91  | 54.00 | -11.09 | Average |  |  |  |
| 2390.000 | 47.65            | horizontal | 7.55     | 55.20  | 74.00 | -18.80 | Peak    |  |  |  |
| 2390.000 | 35.76            | vertical   | 7.55     | 43.31  | 54.00 | -10.69 | Average |  |  |  |
| 2390.000 | 47.65            | vertical   | 7.55     | 55.20  | 74.00 | -18.80 | Peak    |  |  |  |
| 4804.000 | 35.47            | horizontal | -0.29    | 35.18  | 54.00 | -18.82 | Average |  |  |  |
| 4804.000 | 47.24            | horizontal | -0.29    | 46.95  | 74.00 | -27.05 | Peak    |  |  |  |
| 4804.000 | 35.34            | vertical   | -0.29    | 35.05  | 54.00 | -18.95 | Average |  |  |  |
| 4804.000 | 46.44 vertical   |            | -0.29    | 46.15  | 74.00 | -27.85 | Peak    |  |  |  |
|          |                  |            | Middle C | hannel | _     |        | _       |  |  |  |
| 4880.000 | 35.60            | horizontal | 0.11     | 35.71  | 54.00 | -18.29 | Average |  |  |  |
| 4880.000 | 47.60            | horizontal | 0.11     | 47.71  | 74.00 | -26.29 | Peak    |  |  |  |
| 4880.000 | 35.43            | vertical   | 0.11     | 35.54  | 54.00 | -18.46 | Average |  |  |  |
| 4880.000 | 46.94            | vertical   | 0.11     | 47.05  | 74.00 | -26.95 | Peak    |  |  |  |
|          | Γ                |            | High Ch  | annel  |       | 1      | 1       |  |  |  |
| 2483.500 | 43.78            | horizontal | 7.57     | 51.35  | 54.00 | -2.65  | Average |  |  |  |
| 2483.500 | 55.49            | horizontal | 7.57     | 63.06  | 74.00 | -10.94 | Peak    |  |  |  |
| 2483.500 | 41.94            | vertical   | 7.57     | 49.51  | 54.00 | -4.49  | Average |  |  |  |
| 2483.500 | 53.23            | vertical   | 7.57     | 60.80  | 74.00 | -13.20 | Peak    |  |  |  |
| 4960.000 | 35.71            | horizontal | 0.45     | 36.16  | 54.00 | -17.84 | Average |  |  |  |
| 4960.000 | 47.07            | horizontal | 0.45     | 47.52  | 74.00 | -26.48 | Peak    |  |  |  |
| 4960.000 | 35.80            | vertical   | 0.45     | 36.25  | 54.00 | -17.75 | Average |  |  |  |
| 4960.000 | 46.25            | vertical   | 0.45     | 46.70  | 74.00 | -27.30 | Peak    |  |  |  |

#### Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss - Amplifier gain

Margin = Corrected Amplitude - Limit

The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.



### Test plot for example as below:

Mode: BLE 1M Channel: 2402MHz EUT/Model No.: RoomSensor Pro Test Mode : Transmitting Test Voltage : AC 120V/60Hz Temp/Humi : 24℃/42% : Luke Li Tested by Polarization : horizontal : BLE 1M Low Channel Remark 100 Level (dBuV/m) 90 80 PK 70 **Fundamental** test with filter 60 50 40 30 20 10 1000 7800. Frequency (MHz) 14600. 18000 4400. 11200. Frequency Reading Factor Result Limit Margin Detector --No. (MHz) (dBµV) (dB/m) $(dB\mu V/m)$  $(dB\mu V/m)$ (dB) 1 4804.000 40.66 -0.29 40.37 54.00 13.63 Average 74.00 25.50 2 4804.000 48.79 -0.29 48.50 Peak 35.21 44.84 9.16 3 15610.300 9.63 54.00 Average 15610.300 47.25 9.63 56.88 74.00 17.12 Peak

44.83

57.26

54.00

74.00

9.17

16.74

Average

Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

10.34

10.34

34.49

46.92

5

17906.450

17906.450



Mode: BLE 1M Channel: 2402MHz EUT/Model No.: RoomSensor Pro Test Mode : Transmitting Test Voltage : AC 120V/60Hz Temp/Humi :  $24^{\circ}$ C/42% Tested by : Luke Li Polarization : vertical : BLE 1M Low Channel Remark 100 Level (dBuV/m) 90 80 70 **Fundamental** 60 test with filter 40 30 20 10 1000 4400. 7800. 14600. 18000 Frequency (MHz) --No. Frequency Reading Factor Result Limit Margin Detector (MHz) (dBµV) (dB/m) $(dB\mu V/m)$  $(dB\mu V/m)$ (dB) 1 2020.510 55.39 -3.82 51.57 74.00 22.43 Peak 4804.000 36.94 -0.29 36.65 54.00 17.35 2 Average 3 4804.000 47.80 -0.29 47.51 74.00 26.49 Peak 4 15601.800 34.69 9.66 44.35 54.00 9.65 Average 5 15601.800 47.22 9.66 56.88 74.00 17.12 Peak 47.69 10.28 57.97 74.00 16.03 17974.490 Peak 6 17974.490 34.28 44.56 54.00 10.28 9.44 Average



### 3.5 RF Conducted Test Data

| Test Date:             | 2023-11-21~2023-11-23                               | Test By: | Ryan Zhang |  |  |
|------------------------|---|----------|------------|--|--|
| Environment condition: | Temperature: 22.4~23.1°C; Relative Humidity:51~56%; |          |            |  |  |
| Environment Condition. | ATM Pressure: 101.1~103.1kPa                        |          |            |  |  |

### 3.5.1 6 dB Emission Bandwidth and 99% Occupied Bandwidth

| Test Mode | Channel | 6dB BW [MHz] | 99%<br>OBW[MHz] | 6dB BW<br>Limit[MHz] | Verdict |
|-----------|---------|--------------|-----------------|----------------------|---------|
|           | 2402    | 0.646        | 1.024           | 0.5                  | pass    |
| BLE 1M    | 2440    | 0.646        | 1.019           | 0.5                  | pass    |
|           | 2480    | 0.654        | 1.014           | 0.5                  | pass    |
|           | 2402    | 1.101        | 2.067           | 0.5                  | pass    |
| BLE 2M    | 2440    | 1.104        | 2.075           | 0.5                  | pass    |
|           | 2480    | 1.104        | 2.091           | 0.5                  | pass    |

# 3.5.2 Maximum Conducted Peak Output Power

| Test Mode | Channel<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|------------------|-----------------|----------------|---------|
|           | 2402             | 8.60            | 30             | Pass    |
| BLE 1M    | 2440             | 8.52            | 30             | Pass    |
|           | 2480             | 8.34            | 30             | Pass    |
|           | 2402             | 7.39            | 30             | Pass    |
| BLE 2M    | 2440             | 7.42            | 30             | Pass    |
|           | 2480             | 7.27            | 30             | Pass    |

# 3.5.3 Power Spectral Density

| Test Mode | Channel<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|------------------|----------------------|---------------------|---------|
|           | 2402             | -7.49                | 8                   | Pass    |
| BLE 1M    | 2440             | -7.65                | 8                   | Pass    |
|           | 2480             | -7.67                | 8                   | Pass    |
|           | 2402             | -10.22               | 8                   | Pass    |
| BLE 2M    | 2440             | -10.26               | 8                   | Pass    |
|           | 2480             | -10.35               | 8                   | Pass    |

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# 3.5.4 100 kHz Bandwidth of Frequency Band Edge

| Test Mode | Channel | Result          | Limit           | Verdict |
|-----------|---------|-----------------|-----------------|---------|
| BLE 1M    | 2402    | Refer test plot | Refer test plot | Pass    |
| BLE IIVI  | 2440    | Refer test plot | Refer test plot | Pass    |
| BLE 2M    | 2480    | Refer test plot | Refer test plot | Pass    |
| DLE ZIVI  | 2402    | Refer test plot | Refer test plot | Pass    |

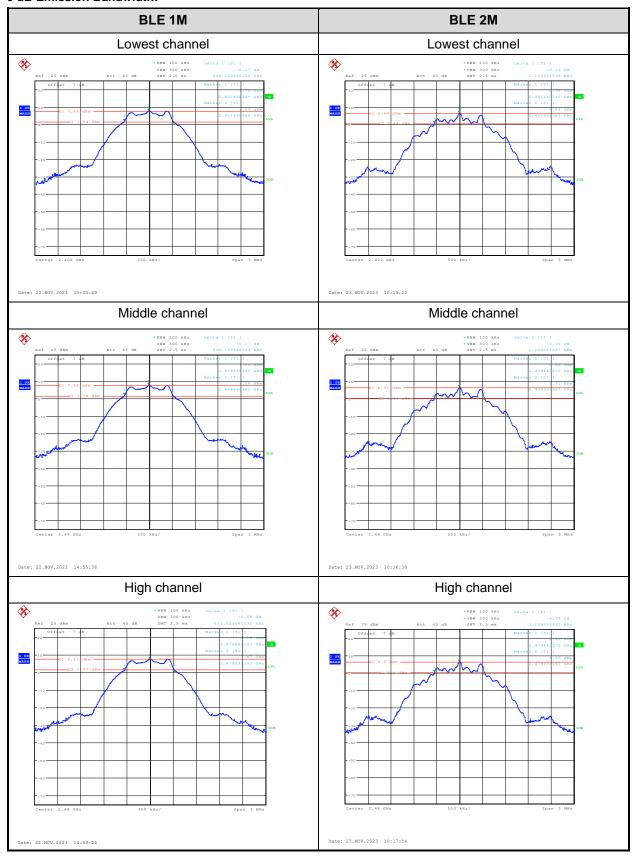
# 3.5.5 Duty Cycle

| Test Mode | Channel | Ton<br>(ms) | Ton+off<br>(ms) | Duty Cycle<br>[%] | 1/Т  | VBW<br>setting [Hz] |
|-----------|---------|-------------|-----------------|-------------------|------|---------------------|
| BLE 1M    | 2440    | 2.218       | 2.513           | 88.3              | 0.45 | 500                 |
| BLE 2M    | 2440    | 1.164       | 1.896           | 61.4              | 0.86 | 1000                |



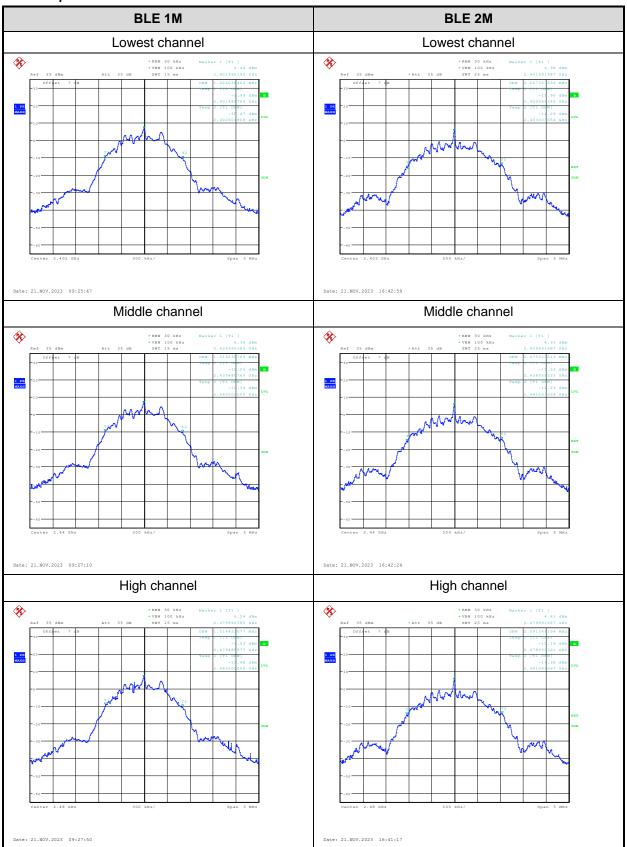
### **Test Plots:**

### 6 dB Emission Bandwidth:



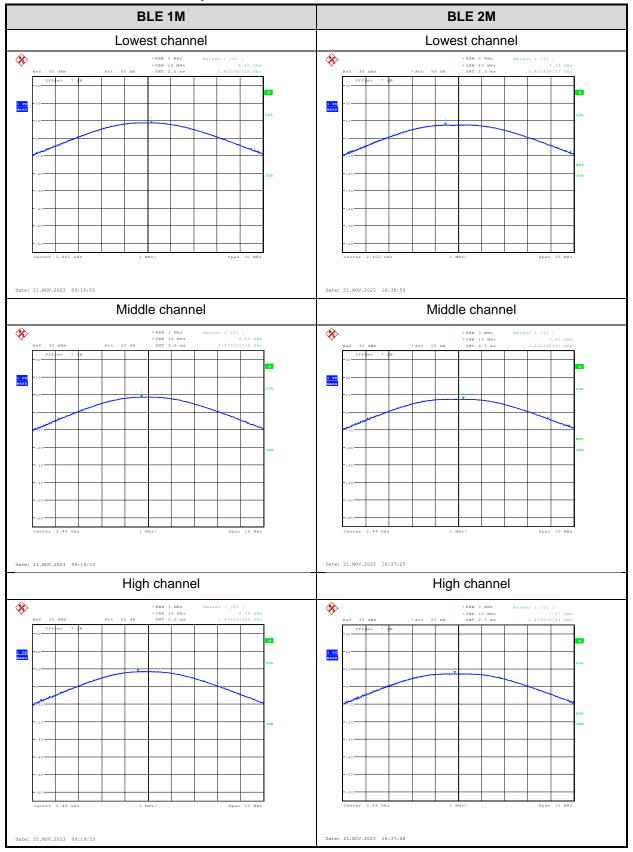


### 99% Occupied Bandwidth:



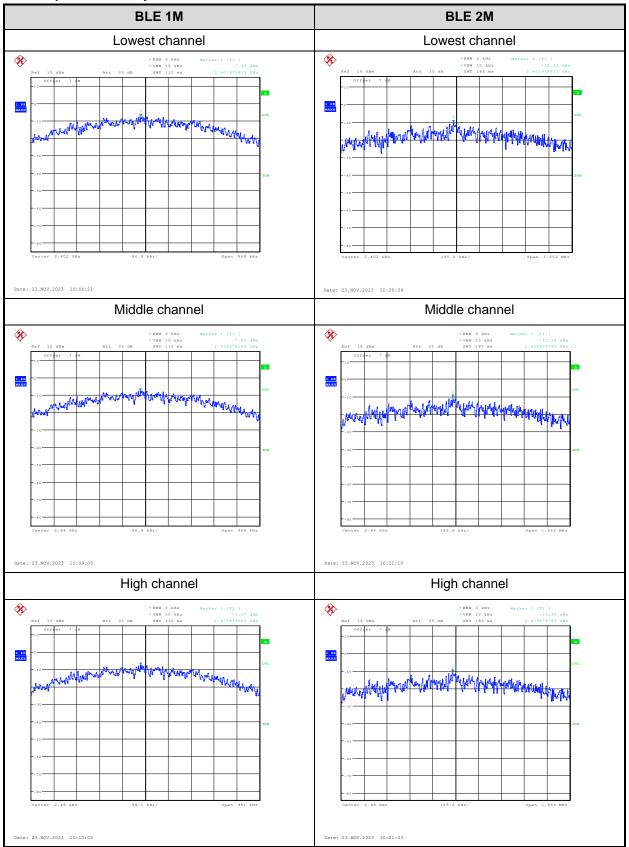


### **Maximum Conducted Peak Output Power:**



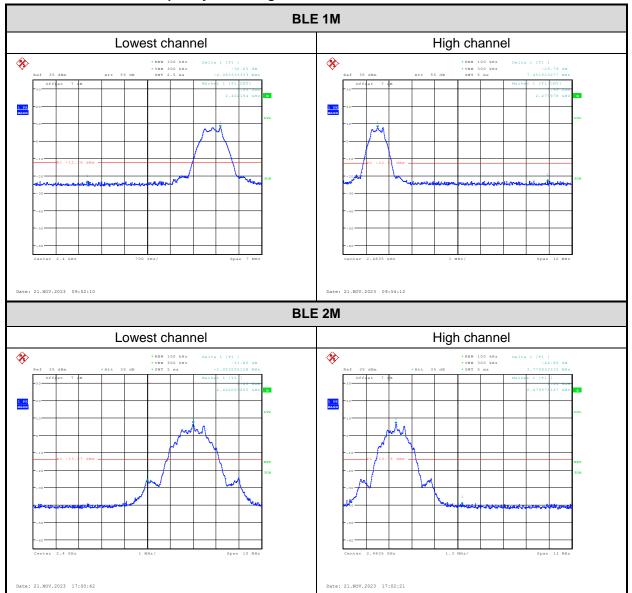


### **Power Spectral Density:**



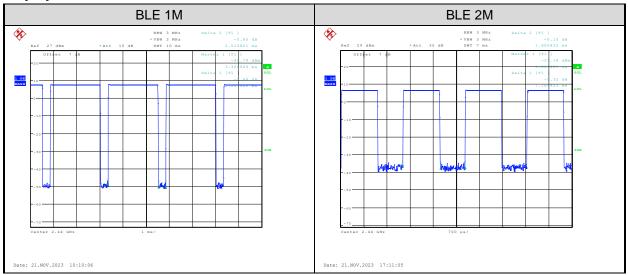


### 100kHz Bandwidth of Frequency Band Edge:





### **Duty Cycle:**





# 4 Test Setup Photo

Please refer to the attachment: RWAY202300003 Test Setup photo.



# 5 E.U.T Photo

Please refer to the attachment: RWAY202300003 External photo and RWAY202300003 Internal photo.

---End of Report---