

RADIO TEST REPORT

For

LEDVANCE Japan Co., Ltd.

SMART BT MACARON RGB OSRAM

Test Model: SMART BT MACARON RGB YELLOW

Additional Model No.: Please Refer to Page 6

Prepared for : LEDVANCE Japan Co., Ltd.
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Date of receipt of test sample : June 08, 2026
Number of tested samples : 2
Sample number : C260604006-1, C260604006-2
Serial number : Prototype
Date of Test : June 08, 2026 ~ June 30, 2026
Date of Report : July 01, 2026

RADIO TEST REPORT MIC Notice No.88 Appendix No. 43 <i>Second-Generation Low-Power Data Communication System/Wireless LAN System</i>	
Report Reference No. : LCSC06056006EB Date of Issue..... : July 01, 2026	
Testing Laboratory Name..... : Guangzhou LCS Compliance Testing Laboratory Ltd. Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China Testing Location/ Procedure.... : Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □	
Applicant's Name..... : LEDVANCE Japan Co., Ltd. Address..... : 8F, Mainichi-Shimbun Building, 3-4-5, Umeda, Kita-ku, Osaka 530-0001 Japan	
Test Specification Standard..... : MIC Notice No.88 Appendix No.43 Test Report Form No..... : TRF-4-E-111 A/0 TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd. Master TRF..... : Dated 2011-03	
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Test Item Description..... : SMART BT MACARON RGB OSRAM Trade Mark..... : LEDVANCE, OSRAM Test Model..... : SMART BT MACARON RGB YELLOW Ratings..... : Please Refer to Page 6 Result : PASS	

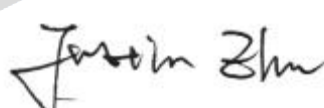
Compiled by:

Supervised by:

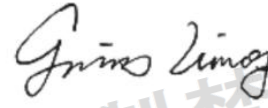
Approved by:



Lifeng Le/ Administrators



Justin Zhu/ Technique Director



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RADIO -- TEST REPORT

Test Report No. : LCSC06056006EB	<u>July 01, 2026</u> Date of issue
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Test Model.....	: SMART BT MACARON RGB YELLOW
EUT.....	: SMART BT MACARON RGB OSRAM
Applicant	: LEDVANCE Japan Co., Ltd.
Address.....	: 8F, Mainichi-Shimbun Building, 3-4-5, Umeda, Kita-ku, Osaka 530-0001 Japan
Telephone.....	: /
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Manufacturer	: LEDVANCE Lighting Co., Ltd.
Address.....	: No.1-1 Industrial Road (North), Chancheng District, Foshan, Guangdong
Telephone.....	: /
Fax.....	: /
Factory	: LEDVANCE Lighting Co., Ltd.
Address.....	: No.1-1 Industrial Road (North), Chancheng District, Foshan, Guangdong
Telephone.....	: /
Fax.....	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 01, 2026	Initial Issue	---

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: SMART BT MACARON RGB OSRAM
Test Model	: SMART BT MACARON RGB YELLOW
Additional Model No.	: SMART BT MACARON RGB BLUE, SMART BT MACARON RGB PINK, SMART BT MACARON RGB GREEN, SMART BT MACARON RGB ORANGE, SMART BT MACARON RGB WHITE
Model Declaration	: See model list
Ratings	: Input: 5V=0.35A 1.75W(Max) Battery: DC 3.7V 450mAh
Hardware Version	: Module 1: EWN-8250FGT1CA7 Module 2: AB5605E-module
Software Version	: Module 1: 1.0.24 Module 2: 731F9780_F5ED1CB8

Module 1:

Bluetooth

Frequency Range	: 2402-2480MHz for Bluetooth 40 channels for Bluetooth V5.3(BT LE) Channel Frequency=2402+2(K-1), K=1, 2, 340
Declared Antenna Power	: Bluetooth V5.3(BT LE): 2mW
Modulation Technology	: Bluetooth V5.3(BT LE): GFSK
Data Rate	: Bluetooth V5.3(BT LE): 1Mbps
Antenna Description	: PCB Antenna 1, 0.45dBi (Max.)

Module 2:

Bluetooth

Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V6.0 (BDR/EDR)
Channel Spacing	: 1MHz for Bluetooth V6.0 (BDR/EDR)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V6.0 (BDR/EDR)
Bluetooth Version	: V6.0
Antenna Description	: PCB Antenna 2, 3.71dBi(Max.)

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

model list:

Description	Basic code	Rated Power	Rated input of USB port	Rated output of battery
SMART BT MACARON RGB BLUE	AC78498XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W
SMART BT MACARON RGB PINK	AC78499XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W
SMART BT MACARON RGB YELLOW	AC78500XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W
SMART BT MACARON RGB GREEN	AC78501XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W
SMART BT MACARON RGB ORANGE	AC78502XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W
SMART BT MACARON RGB WHITE	AD13465XXXX	1.75W	5V, Max.0.35A	3.7V,Max.1.75W

1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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1.3. External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A

1.4. Description of Test Facility

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

1.5. Test Conditions

Temperature Range	:	21-25℃
Humidity Range	:	45-85%
Pressure Range	:	86-106kPa

1.6. Frequency of Channels

Bluetooth V6.0(BDR/EDR)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2402	41	2442
2	2403	42	2443
--	--	--	--
38	2439	78	2479
39	2440	79	2480
40	2441		

2. TEST METHODOLOGY

2.1. EUT Exercise

The EUT was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for the purpose of the measurements.

For all test case pre/scans were completed in all Modes to determine worst case levels. According to its specifications, the EUT must comply with the requirements of MIC Notice No.88 Appendix No. 43.

2.2. Measurement Uncertainty

Test Item		MU	Remark
Bandwidth	:	+/- 0.2 E-6	/
Antenna Power	:	+/-0.33dB	/
Frequency Tolerance	:	+/- 0.3 E-6	/
Conducted spurious emission	:	+/-0.13dB	/
DC Power	:	+/-1%	/

- (1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.3. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	Engineering code		
Frequency	2402MHz	2441MHz	2480MHz
Bluetooth V6.0	Default	Default	Default

2.4. Description of Test Modes

Tested channel, Frequency and Modulation Information		
CH1	2402MHz	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
CH40	2441MHz	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
CH79	2480MHz	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
Hopping Mode		GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
Note: According exploratory test, EUT has maximum output power for GFSK modulation, All the test modes were tested, but only the worst case was recorded in this report.		

2.5. Test Voltage

POWER SUPPLY VOLTAGE FLUCTUATION TEST

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 5V	DC 5.5V	DC 4.5V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	--	--	--

Note: As the EUT was powered by DC 5V, and with the voltage stabilizing circuit used, the chip voltage received floating not exceed $\pm 1\%$ of nominal condition when working on extreme voltage, so all test performed at nominal voltage only.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a typical fashion.

3.2. EUT Exercise Software

N/A.

3.3. Special Accessories

N/A.

3.4. Block Diagram/Schematics

Please refer to the report.

3.5. Equipment Modifications

Guangzhou LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

4. SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.43 Article 2 Paragraph 1 Item 19		
Clause	Description of Test (Transmitter Parameters)	Result
3	Frequency Tolerance	PASS
6	Antenna Power	PASS
6	Tolerances for Antenna Power	PASS
4	Transmission Rate	PASS
4	Occupied Frequency Bandwidth	PASS
4	Spread Bandwidth	PASS
13	Dwell Time	PASS
5	Spurious Emissions	PASS
10	Transmission Antenna Gain (EIRP Antenna Power)	PASS
11	Transmission Radiated Angle Width (3dB Beam width)	N/A ¹
12	Interference prevention function	PASS
8	Carrier Sensing function	N/A ²
Receiver Parameters		
7	Secondary Radiated Emissions	PASS
Note: (1) N/A is an abbreviation for Not Applicable. (2) N/T means this test item is not tested. (3) N/A ¹ it is unnecessary to testing, when a E.I.R.P. is less than 6,91dBm/MHz. (4) N/A ² FHSS system equipment does not need to meet camier sensing test.		

5. TEST RESULT

5.1. Frequency Tolerance

5.1.1. Standard Applicable

Tolerance of frequency shall be $\pm 50\text{ppm}$.

5.1.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

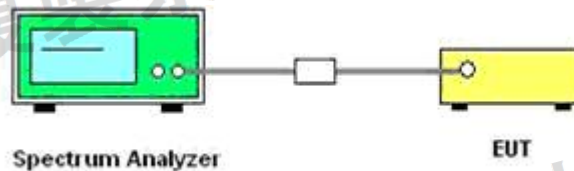
Span: 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, find the peak value of the power envelope and record.

5.1.3. Test Setup Layout



5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result

PASS

Please refer to the Appendix B.1 for BT Test Data.

5.2. Antenna Power

5.2.1. Standard Applicable

Type	Limit
Antenna Power	3mW/MHz
Tolerance	+20%

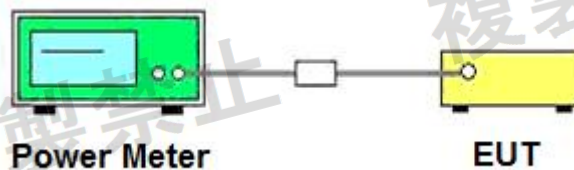
5.2.2. Measuring Instruments

Please refer to section 9 of equipments list in this report.

5.2.2. Test Procedures

- EUT have transmitted continuous maximum power
- Antenna Power Error is definition that actual measure antenna power tolerance between +20% power range that base on manufacturer declare the conducted power density.

5.2.3. Test Setup



5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result

PASS

Please refer to the Appendix B.2 for BT Test Data.

5.3. Occupied Frequency Bandwidth

5.3.1. Standard Applicable

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

5.3.2. Test Procedures

- a. Set EUT work in test mode as described in clause 2.4.
- b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz.

Video BW: 1MHz.

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

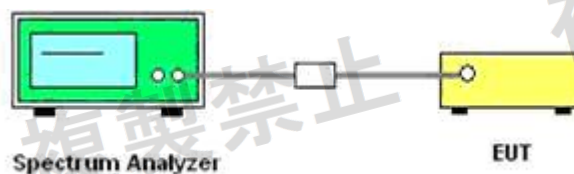
Sweep mode: Continuous sweeping.

Detector: Peak.

Trace Mode: Max Hold.

- c. When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

5.3.3. Test Setup Layout



5.3.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.5. Test Result of Occupied Bandwidth

PASS

Please refer to the Appendix B.3 for BT Test Data.

5.4. Spread Bandwidth

5.4.1. Standard Applicable

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more.

The OFDM system shall have one or more carriers per 1 MHz bandwidth.

5.4.2. Test Procedures

- a. Set EUT work in test mode as described in clause 2.4.
- b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz.

Video BW: 1MHz.

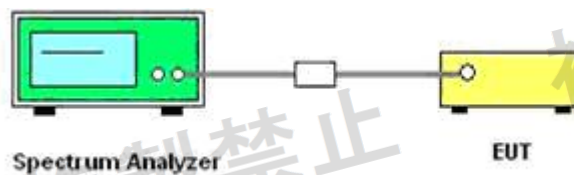
Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

Trace Mode: Max Hold.

- c. When the trace is complete, measure the spread bandwidth (90% bandwidth) with spectrum analyzer's bandwidth measure function.

5.4.3. Test Setup Layout



5.4.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.5. Test Result of Spectrum Bandwidth

PASS

Please refer to the Appendix B.4 for BT Test Data.

5.5. Transmitter Spurious Emissions (conducted)

5.5.1. Standard Applicable

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

- | | |
|--|---------------------|
| a. 30MHz - 1,000MHz | 2.5 μ W or less |
| b. 1,000MHz - 2,387MHz | 2.5 μ W or less |
| c. 2,387MHz - 2,400MHz and 2,483.5MHz - 2,496.5MHz | 25 μ W or less |
| d. 2,496.5MHz - 13GHz | 2.5 μ W or less |

5.5.2. Test Procedures

- Set EUT work in test mode as described in clause 2.4.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Below 1GHz: RBW/VBW= 1MHz / 1MHz

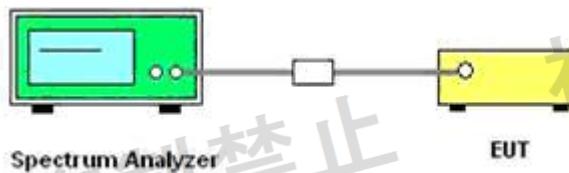
Above 1GHz: RBW/VBW= 1MHz / 1MHz

Detector: Peak.

Trace Mode: Max Hold.

- All the emissions from 30MHz to 13GHz were measured and record.

5.5.3. Test Setup Layout



5.5.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.5. Test Results

PASS

Please refer to the Appendix B.5 for BT Test Data.

Note: SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format.

5.6. Secondary Radiated Emissions

5.6.1. Standard Applicable

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4nW or less at a frequency below 1 GHz and 20nW or less at a frequency of 1 GHz or higher as measured using the circuit

5.6.2. Test Procedures

- a. Set EUT work in test mode as described in clause 2.4.
- b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Resolution BW: 100 KHz for frequency below 1GHz and
1MHz for frequency above 1GHz

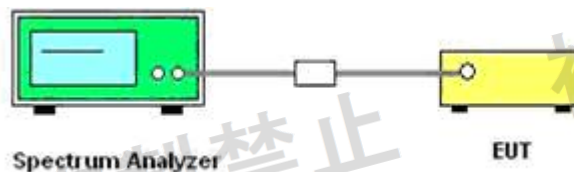
Video BW: 100 KHz for frequency below 1GHz and
1MHz for frequency above 1GHz

Detector: Peak.

Trace Mode: Max Hold.

- c. All the emissions from 30MHz to 12.5GHz were measured and record.

5.6.3. Test Setup



5.6.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.5. Test Results

PASS

Please refer to the Appendix B.6 for BT Test Data.

5.7. Dwell Time

5.7.1. Standard Applicable

Frequency dwell time (time during which radio waves continue to be emitted at a specified

frequency) of a transmitting equipment using the FH system shall be 0.4 seconds or less.

5.7.2. Test Procedures

a. Set EUT work in test mode as described in clause 2.4.

b. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz/510kHz

Video BW: 3MHz/3MHz

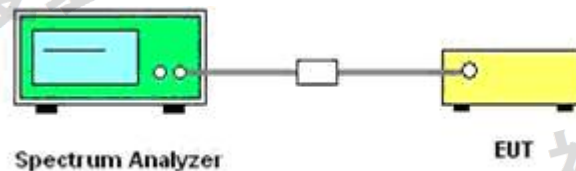
Span: Zero MHz

Detector: Peak.

Trace Mode: Max Hold.

c. When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

5.7.3. Test Setup Layout



5.7.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.7.5. Test Results

PASS

Please refer to the Appendix B.7 for BT Test Data.

5.8. Carrier sensing function

5.8.1. Standard Applicable

Item	Limits
Carrier Sense	Good – EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

5.8.2. Instruments Setting

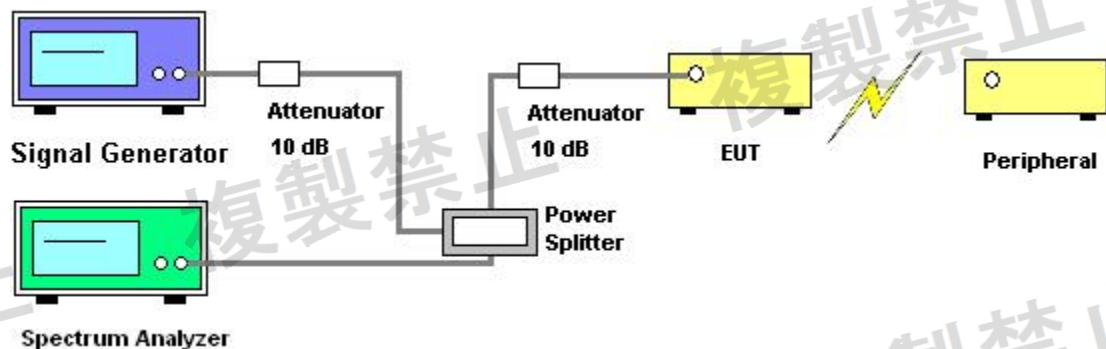
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Span	0 MHz
Sweep	Continuous
Detector	Peak
Trigger mode	Video

5.8.3. Test Procedures

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB: 1MHz / VB: 1MHz / SPAN: 50MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

5.8.4. Test Setup Layout



5.8.5. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

5.8.6. Test Result

Not Applicable.

5.9. Interference prevention function

5.9.1. Standard Applicable

Item	Limits
Identification code	≥ 48 bits

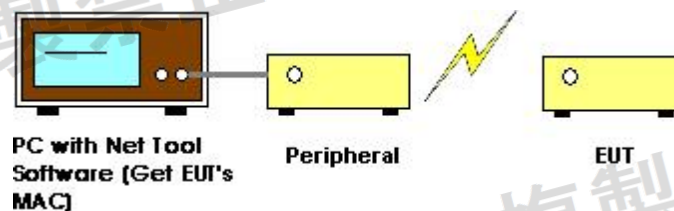
5.9.2. Measuring ID Code Software

PC with NetTool	Setting
MAC IP List	MAC Scan

5.9.3. Test Procedures

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the other signals than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.9.4. Test Setup Layout



5.9.5. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

5.9.6. Test Result

EUT ID	Performance index
41:ad:48:f2:91:fd	Good

6. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix C for Test Setup Photographs

7. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix D for External Photos of EUT

8. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix E for Internal Photos of EUT

9. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Equipment No.	Cal Date	Due Date
1	Power Meter	Keysight	E4417A	GLCS-E-279	2026-04-07	2027-04-06
2	Power Sensor	Keysight	E9304A	GLCS-E-280	2026-04-07	2027-04-06
3	Power Sensor	Keysight	E9304A	GLCS-E-281	2026-04-07	2027-04-06
4	Spread Ppectrum Unit	Tonscend	TS-WF7U2	GLCS-E-364	N/A	N/A
5	Test Software	Tonscend	JS1120-3	GLCS-E-366	N/A	N/A
6	RF Control Unit	Tonscend	JS0806-2	GLCS-E-365	2025-09-01	2026-08-31
7	MXA Signal Analyzer	Keysight	N9020A	GLCS-E-356	2025-08-18	2026-08-17
8	DC Power Supply	Keysight	E3642A	GLCS-E-357	2025-08-18	2026-08-17
9	Oscilloscope	Tektronix	46084A/4609A	GLCS-E-113	2026-05-22	2027-05-21
10	Signal Generator	Keysight	N5181A	GLCS-E-354	2025-08-18	2026-08-17

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.
Calibration Agencies: Guangzhou LiSai Metrology & Test Co., Ltd.

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.

-----THE END OF REPORT-----