

Targus Asia Pacific Limited

TEST REPORT

SCOPE OF WORK

JAPAN RADIO TESTING—AKP14

REPORT NUMBER

260427064SZN-001

ISSUE DATE

13 July 2026

[REVISED DATE]

[-----]

PAGES

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DOCUMENT CONTROL NUMBER

JAPAN Radio Test Report-Bluetooth 2.4G Band

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JAPAN Radio Test Report

Data transmission equipment operating in the 2.4GHz Band

Applicant:	Targus Asia Pacific Limited
Address:	FLAT/RM 01-03 09/F CTF LIFE TOWER 18 SHEUNG YUET ROAD KOWLOON BAY KL HONG KONG
Manufacturer:	Same as applicant
Address:	Same as applicant
Product Name:	Wireless Keypad
Model No.:	AKP14
Standard:	Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment
Test Procedure:	MIC Notice No.88 Appendix No.43
Date of Receipt:	27 April 2026
Date of Test:	27 April 2026 to 02 June 2026
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. No.101&201, Building B, No.308, Wuhe Avenue, Zhangkengjing, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Date of Issue:	13 July 2026
Test Result:	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 3 of this report for further detail.

Prepared and Checked By:

Mandy

Signature

Mandy Chen
Engineer

Approved By:

Damon

Signature

Damon Wang
Team Leader

13 July 2026 **Date**

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Intertek Testing Services Shenzhen Ltd.

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2 Revision History

Report No.	Version	Description	Issued Date
260427064SZN-001	Rev.01	Initial issue of report	13 July 2026

3 Summary of Test Result

Test	Test Requirement	Limit/Severity	Result
Antenna Requirement	Item 19 of Article 2,	Notice 88 Appendix 43, B-1 (1) & (2)	Pass
Test frequency	Item 19 of Article 2,	Notice 88 Appendix 43, A-3	Pass
Frequency Tolerance	Item 19 of Article 2,	±50 ppm or less	Pass
Occupied Bandwidth	Item 19 of Article 2,	83.5MHz or less for BR/EDR 26MHz or less for BLE	Pass
Spread-spectrum Bandwidth	Item 19 of Article 2,	500kHz or more	Pass
Antenna Power	Item 19 of Article 2,	4.77dBm/MHz or less for BR/EDR 10dBm for BLE Tolerance: +20%	Pass
Dwell Time	Item 19 of Article 2,	0.4 sec or less for BR/EDR	N/A
Spurious Emission of Tx	Item 19 of Article 2,	(1) Below 2387 MHz: 2.5μW/MHz or less(≤-26dBm/MHz) (2) 2387 to 2400 MHz: 25μW/MHz or less(≤-16dBm/MHz) (3) 2483.5 through 2496.5 MHz: 25μW/MHz or less (≤-16dBm/MHz) (4) Over 2496.5 MHz: 2.5μW/MHz or less(≤-26dBm/MHz)	Pass
Interference prevention capability	Item 19 of Article 2,	Notice 88 Appendix 43, 44, 45	Pass
RF accessibility	Item 19 of Article 2,	Notice 88 Appendix 43, 44, 45	Pass
Spurious Emission of Rx	Item 19 of Article 2,	(1) Below 1 GHz: 4nW or less(≤-54dBm/MHz) (2) 1 GHz and over: 20nW or less(≤-47dBm/MHz)	Pass

Remark:

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radio Frequency.

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5 General Information

5.1 Client Information

Applicant: Targus Asia Pacific Limited
Address of Applicant: FLAT/RM 01-03 09/F CTF LIFE TOWER 18 SHEUNG YUET ROAD KOWLOON BAY KL
HONG KONG
Manufacturer: Same as applicant
Address of Manufacturer: Same as applicant

5.2 General Description of EUT

Product Name: Wireless Keypad
Model No.: AKP14
Trademark: Targus

5.3 Details of EUT

Operating Frequency: 2402MHz-2480MHz
Bluetooth Version: BT 5.3
Type of Modulation: GFSK
Transmit Data Rate: GFSK: 1Mbps, 2Mbps
Number of Channels: 40 for BT BLE
Channel Separation: 2MHz for BT BLE
Antenna Type: ceramic antenna
Antenna gain: 1.15dBi
Normal antenna power: F1D: 5.0 mW (BLE)
Power Supply: DC 5V/500mA
Test Model: AKP14

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Laptop	DELL	Latitude 3410
Test Software (provided by applicant): EMI_Test_Tool was installed on the laptop.		

5.5 Deviation from Standards

None.

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

6 Equipment Used during Test

Test Equipment	Manufacturer	Model No.	Serial number	Cal. Date	Next Cal. Date	Calibration body	Calibration Method
Spectrum Analyzer	R&S	FSV40	101214	2026-01-20	2027-01-20	CEPREI CALIBRATION & TESTING CENTER	C
Wideband Radio Communication Tester	R&S	CMW500	144665	2025-09-15	2026-09-15	CEPREI CALIBRATION & TESTING CENTER	C
RF Power Meter	BOONTON	ML2496A	11002	2026-04-13	2027-04-13	CEPREI CALIBRATION & TESTING CENTER	C
Pulse Power Sensor	Anritsu	MA2411B	1207429	2026-04-13	2027-04-13	CEPREI CALIBRATION & TESTING CENTER	C
True RMS Multimeter	Fluke	175	10470115	2025-12-02	2026-12-02	CEPREI CALIBRATION & TESTING CENTER	C
Attenuator	Mini-Circuits	BW-S10W5+	1044	2025-12-02	2026-12-02	CEPREI CALIBRATION & TESTING CENTER	C

Remark:

- Calibration conducted by the National Institute of Information and Communications Technology (NITC) in Japan (hereinafter referred to as "NITC") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992).
- Calibration conducted in countries except Japan, which shall be equivalent to the calibration Conducted by the NITC or a designation agency under Article 102-18 paragraph (1).
- Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No.3, which shall have been given any type of calibration, etc. listed above from (a) to (c). From JRL Article 24-2, paragraph 4, item 2
- Calibration duration for above equipments is 1 year.

7 Test Results

7.1 Radio Technical Requirements Specification

Tabel1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Article 2 paragraph 1 item (19))

Items	Technical standard
Assigned frequency or designated frequency	2400-2483.5MHz
Communication method	One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum
Tolerance of frequency ($\times 10^{-6}$)	± 50
Tolerance of occupied bandwidth	FH: 83.5MHz or less FH + DS: 83.5MHz or less FH + OFDM: 83.5MHz or less OFDM: 40MHz or less Others: 26MHz or less
Antenna power	Designated value (1) FH, FH+DS, FH+OFDM: 3mW/MHz(4.77dBm/MHz) (used in the range of 2427-2470.75 MHz) (2) OFDM, DS other than (1) 10mW/MHz(10dBm/MHz) (3) Other than (1) & (2) 10mW(10dBm) (4) OFDM OBW 26- 38MHz: 5mW/MHz(6.99dBm/MHz) Tolerance:+20%
Antenna gain	(1) 12.14 dBi or less in principle (2) In case of directional antenna 1) FH, FH+DS or FH+OFDM using 2427-2470.75 MHz EIRP $\leq$ 16.91 dBm/MHz 2) OFDM or DS other than (1) EIRP $\leq$ 22.14 dBm/MHz 3) Other than (1) and (2): 22.14 dBm or less 4) OFDM OBW 26- 38MHz: 19.14dBm/MHz 5) Half-power angle of directional antenna (e) in case of the item 2): e $\leq$ 360/A (The A is 10 in maximum)
Dwell Time	0.4 sec or less
Tolerance of spurious emission intensity	(1) Below 2387 MHz: 2.5 μ W/MHz or less($\leq$ -26dBm/MHz) (2) 2387 to 2400 MHz: 25 μ W/MHz or less($\leq$ -16dBm/MHz) (3) 2483.5 through 2496.5 MHz: 25 μ W/MHz or less($\leq$ -16dBm/MHz) (4) Over 2496.5 MHz: 2.5 μ W/MHz or less($\leq$ -26dBm/MHz)
Spreading bandwidth	DS, FH, FH+DS, FH+OFDM: 500kHz or more
Spreading rate of spectrum	(Spreading bandwidth) / (Frequency corresponding to transmission rate) $\geq$ 5
Limit of secondary radiated emissions	(1) Below 1 GHz: 4 nW($\leq$ -54dBm) (2) 1 GHz or higher: 20 nW($\leq$ -47dBm)
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping OFDM: Orthogonal frequency division multiplexing

7.2 E.U.T. test conditions

Power supply:

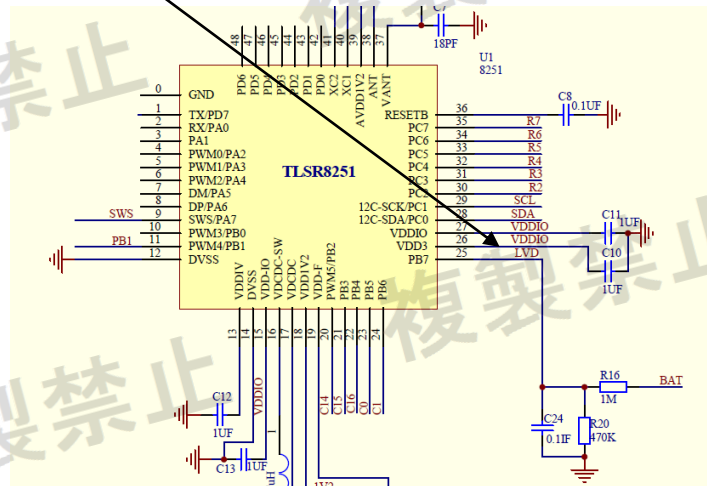
DC 3.8V

The RF unit is supplied by DC 3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from DC 3.3V to the test equipment is fluctuated by $\pm 10\%$, So, all measurement has been conducted by rated voltage.

The measurement result of the voltage fluctuation at RF circuit when DC 3.3V $\pm 10\%$.

Power supply voltage	measured value
DC 3.8V	DC 3.3V
DC 4.18V	DC 3.3V
DC 3.42V	DC 3.3V

Test Point



Temperature:

0°C - +45°C

Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

Channel List for BLE (Unit: MHz)									
2402	2404	2406	2408	2410	2412	2414	2416	2418	2420
2422	2424	2426	2428	2430	2432	2434	2436	2438	2440
2442	2444	2446	2448	2450	2452	2454	2456	2458	2460
2462	2464	2466	2468	2470	2472	2474	2476	2478	2480

Test Channel for BLE		
Low Channel:	0	2402MHz
High Channel:	39	2480MHz

7.3 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53.0 % RH
Atmospheric Pressure:	1001 mbar

7.4 Antenna Requirement

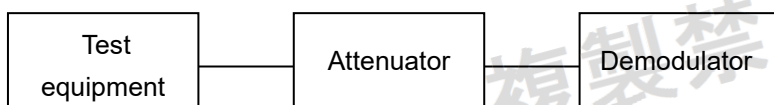
EUT Antenna

The antenna is ceramic antenna and no consideration of replacement. The best case gain of the antenna: 1.15 dBi.

7.5 Interference prevention function

1) Measurement system diagram

When transmitting identification code



2) Condition of measuring instrument

Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

3) Condition of test equipment the mode of normal use.

4) Measuring operation procedure

When test equipment has the function to transmit identification code automatically:

A) Transmit the predetermined identification code from test equipment.

B) Confirm the transmitted identification code by demodulator.

Identification code:

d104ff1000e9

5) Test result: The unit does meet the requirements.

7.6 Frequency Tolerance

Test Requirement:

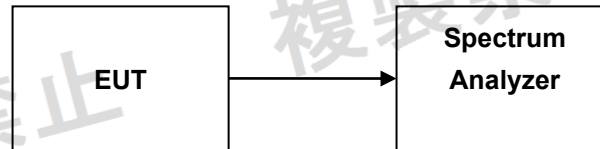
Article 2 paragraph 1 item (19)

Tolerance of frequency: $\pm 50 \times 10^{-6}$

Test Status:

Test the EUT in transmitting mode without modulation.

Test Configuration:



Test Procedure:

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF)

VBW 10 kHz (Modulation OFF)

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

4. Alternative method in case the UUT cannot be operated in an un-modulated mode.

The UUT shall be connected to spectrum analyser.

Max Hold shall be selected and the centre frequency adjusted to that of the UUT.

The peak value of the power envelope shall be measured and noted. The span shall be reduced and the marker moved in a positive frequency increment until the upper, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f1.

The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2.

The centre frequency is calculated as $(f1 + f2) / 2$.

Test result: PASS

Note: All the configuration were tested, but only the worst data were reported in this report.

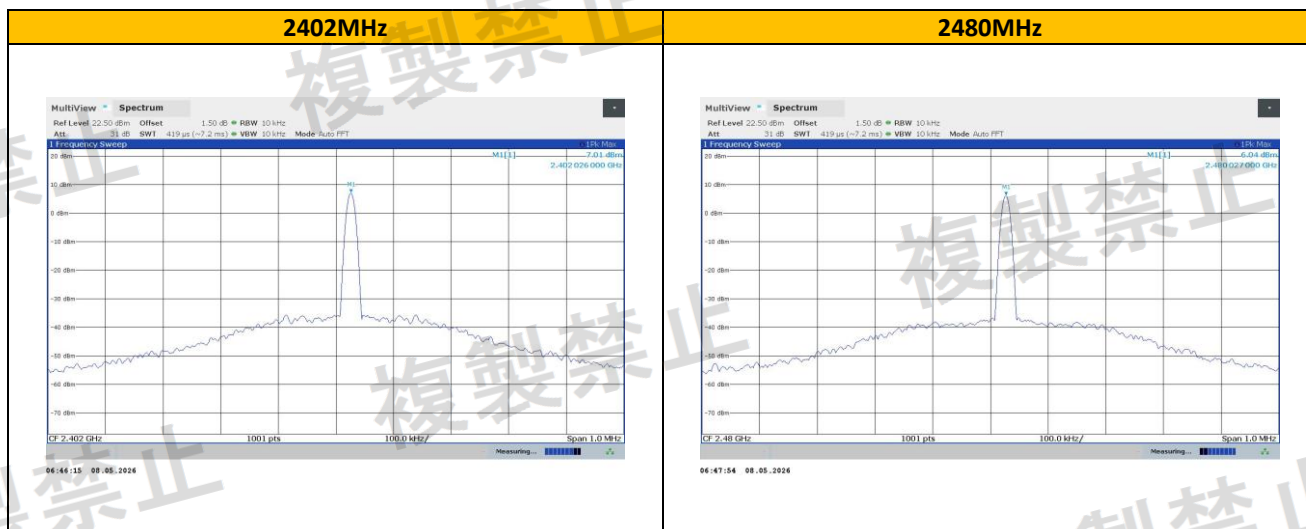
Frequency Tolerance

BLE (1M)



Measurement Frequency	MHz	2402	2480	Limit	Result
Measured Value	MHz	2402.02500	2480.02600	-----	-----
Frequency Tolerance	ppm	10.41	10.48	±50 ppm	Pass

BLE (2M)



Measurement Frequency	MHz	2402	2480	Limit	Result
Measured Value	MHz	2402.02600	2480.02700	-----	-----
Frequency Tolerance	ppm	10.82	10.89	±50 ppm	Pass

Note: Measurement Uncertainty: ±53.50Hz.

7.7 Occupied Bandwidth (99%)

Test Requirement:

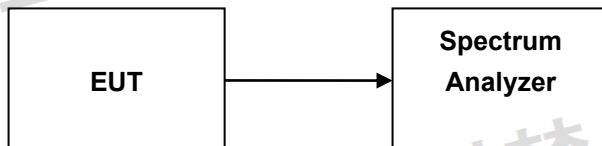
Article 2 paragraph 1 item (19)

FH: 83.5MHz or less, Others: 26MHz or less

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions for FHSS:

Frequency: Test Frequency

Span 120MHz (FHSS)

RBW 1MHz

VBW 1MHz

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

OBW 99%

4. Spectrum Analyzer conditions for BLE:

Frequency: Test Frequency

Span 3MHz

RBW 30KHz

VBW 30KHz

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

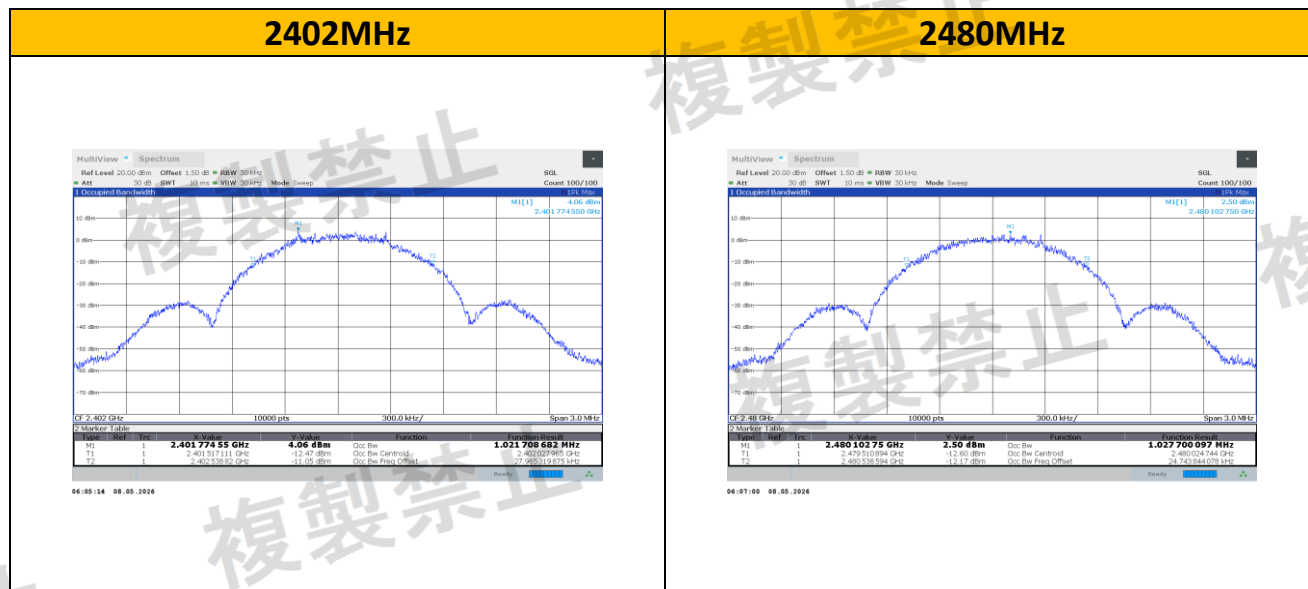
OBW 99%

Test result: Pass

Note: All the configuration were tested, but only the worst data were reported in this report.

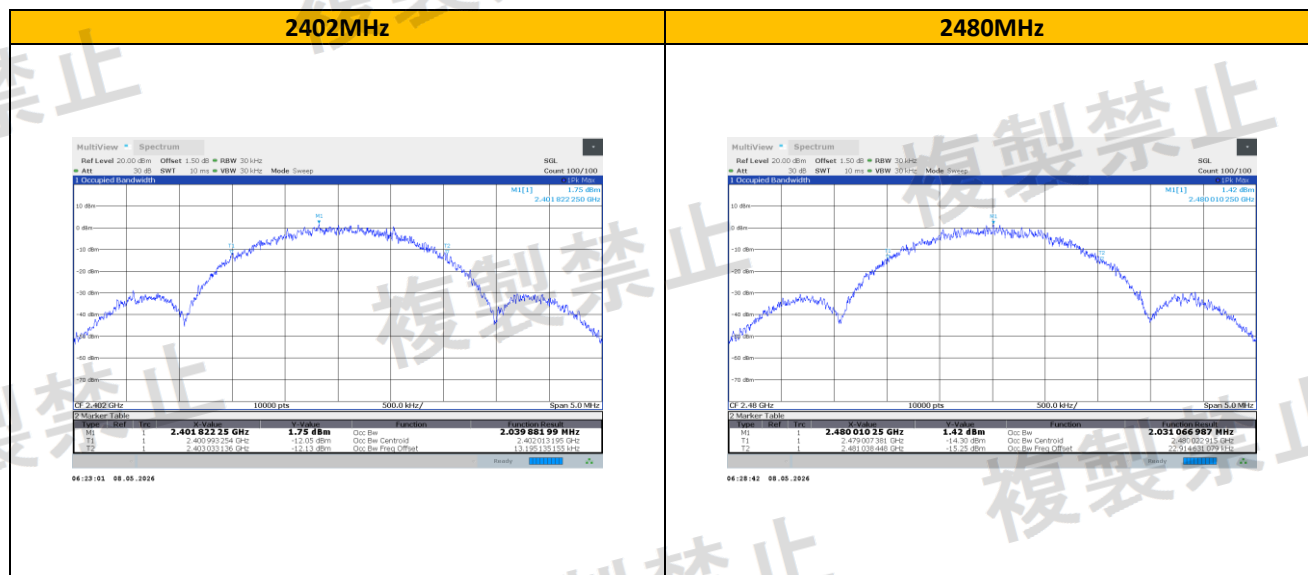
Occupied Bandwidth (99%)

BLE(1M)



Measurement Frequency	2402	2480	Limit	Result
Occupied Bandwidth (MHz)	1.0217	1.0277	26MHz or less	Pass

BLE(2M)



Measurement Frequency	2402	2480	Limit	Result
Occupied Bandwidth (MHz)	2.0399	2.0311	26MHz or less	Pass

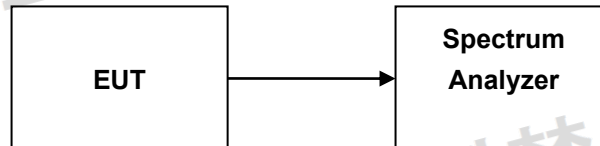
Note: Measurement Uncertainty: $\pm 3.46\%$.

7.8 Spread spectrum Bandwidth (90%)

Test Requirement: Article 2 paragraph 1 item (19)
500 kHz or more

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions for FHSS:

Frequency: Test Frequency
Span 120MHz (FHSS)
RBW 1MHz
VBW 1MHz
Sweep Time Auto
Detector mode Positive peak
Indication mode Max hold
OBW 90%

4. Spectrum Analyzer conditions for BLE:

Frequency: Test Frequency
Span 3MHz
RBW 30KHz
VBW 30KHz
Sweep Time Auto
Detector mode Positive peak
Indication mode Max hold
OBW 90%

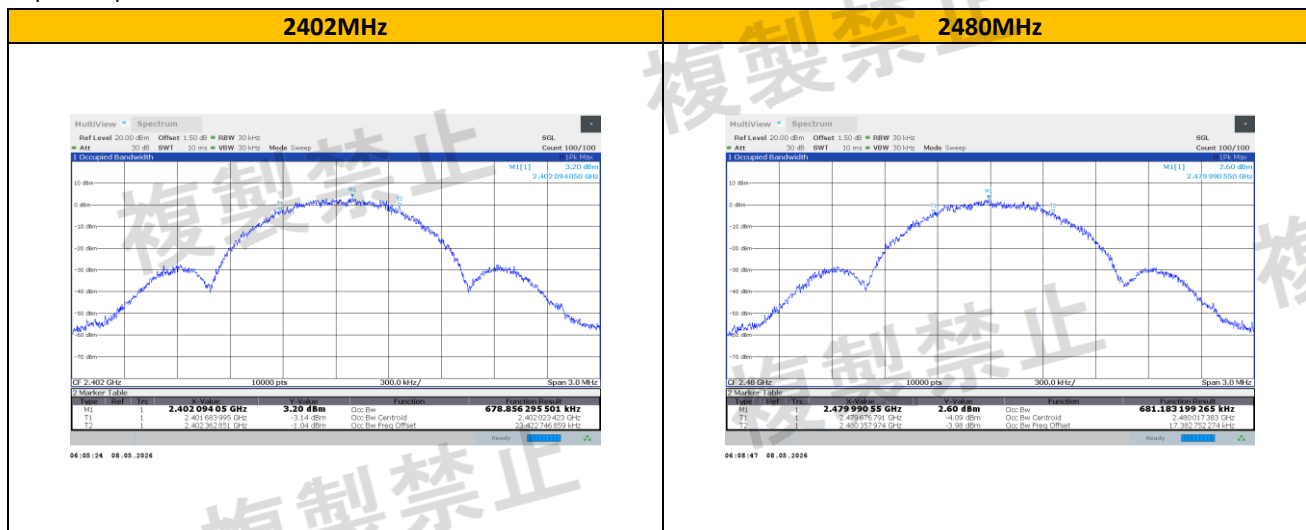
Test result: PASS

Note: All the configuration were tested, but only the worst data were reported in this report.

Spread spectrum Bandwidth (90%)

BLE (1MHz)

Spread spectrum Bandwidth



Measurement Frequency	2402	2480	Limit	Result
Spread spectrum Bandwidth(KHz)	678.856	681.183	500KHz or more	Pass

BLE (2MHz)

Spread spectrum Bandwidth



Measurement Frequency	2402	2480	Limit	Result
Spread spectrum Bandwidth(KHz)	1361.505	1373.303	500KHz or more	Pass

Note: Measurement Uncertainty: $\pm 3.46\%$.

7.9 Antenna Power

Test Requirement:

Article 2 paragraph 1 item (19)

FH, FH+DS, FH+OFDM: 3mW/MHz(4.77dBm/MHz), Other: 10mW(10dBm)

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Test Conditions:

Power meter or Spectrum analyzer are used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. FHSS measurement method (as BR/EDR)

When it is confirmed by the document submitted that the hopping interval is equally spaced at 1 MHz or less and that the probability of occurrence is uniform.

(a) Connect a power meter to the output of the dummy load (attenuator) and measure the total power.

(b) Divide the total power by the spreading bandwidth and calculate the average power per MHz.

(c) The antenna power shall be as follows

1. For continuous wave: Value of (b).

2. For burst wave: Value calculated from the value in (b) and the transmission time rate.

4. Power meter conditions for BLE:

a) Connect a power meter to the output of the dummy load (attenuator) and measure the total power.

(b) The antenna power shall be as follows

1. For continuous wave: Value of (a).

2. For burst wave: Value calculated from the value in (a) and the transmission time rate.

5. Spectrum analyzer for BLE:

Search

Measurement

Span: OBW×2

Center Frequency: Searched frequency

RBW: 1MHz

Span:0

VBW: ≡ RBW×3

RBW:>OBW

Detector: Positive peak

VBW:>OBW

Display mode: Max hold

Detector: Positive peak

Display mode: Max hold

Test result: **PASS**

Note: All the configuration were tested, but only the worst data were reported in this report.

Antenna Power

BLE(1M)

Test Frequency	MHz	2402	2480	Limit	Result
Antenna Power	dBm	7.14	6.09	10 or Less	Pass
	mW	5.18	4.06	10 or Less	Pass
Antenna Power Tolerance	%	3.60	-18.80	Upper +20%	Pass
Rated Power	mW	5.0		10 or less	Pass
EIRP	dBm	8.29	7.24	12.14	Pass

BLE(2M)

Test Frequency	MHz	2402	2480	Limit	Result
Antenna Power	dBm	7.08	6.12	10 or Less	Pass
	mW	5.11	4.09	10 or Less	Pass
Antenna Power Tolerance	%	2.20	-18.20	Upper +20%	Pass
Rated Power	mW	5.0		10 or less	Pass
EIRP	dBm	8.23	7.27	12.14	Pass

Note: Measurement Uncertainty: ± 1.19 dB.

7.10 Spurious Emissions of Tx

Test Requirement:

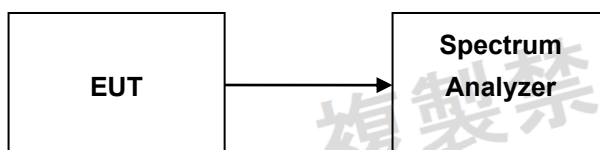
Article 2 paragraph 1 item (19)

- (1) Below 2387 MHz: 2.5μW/MHz (≤ -26 dBm/MHz)
- (2) 2387 to 2400 MHz: 25μW/MHz (≤ -16 dBm/MHz)
- (3) 2483.5 through 2496.5 MHz: 25μW/MHz (≤ -16 dBm/MHz)
- (4) Over 2496.5 MHz: 2.5μW/MHz (≤ -26 dBm/MHz)

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Test Conditions:
Spectrum Analyzer is used for measurement.
2. EUT conditions:
Modulation/Spread/Hopping ON
For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
3. Spectrum Analyzer conditions:
Step 1
All spurious are measured from 30 MHz to 12.5 GHz by peak mode.
Step 2
IF the value measured by Step1 is 3 dB or less, measure in average mode.
Test setup for Step 1:
Frequency: 30 MHz- 2400 MHz, 2483.5 MHz-12.5 GHz
RBW 1 MHz
VBW 1 MHz
Sweep Time Auto
Detector mode Positive peak
Indication mode Max hold
Test setup for Step 2:
Frequency: Spurious Frequency
RBW 1 MHz
VBW 1 MHz
Sweep Time Auto
Detector mode Sample
Indication mode Max hold

Test result: PASS

Note: All the configuration were tested, but only the worst data were reported in this report.

Spurious Emissions of Tx

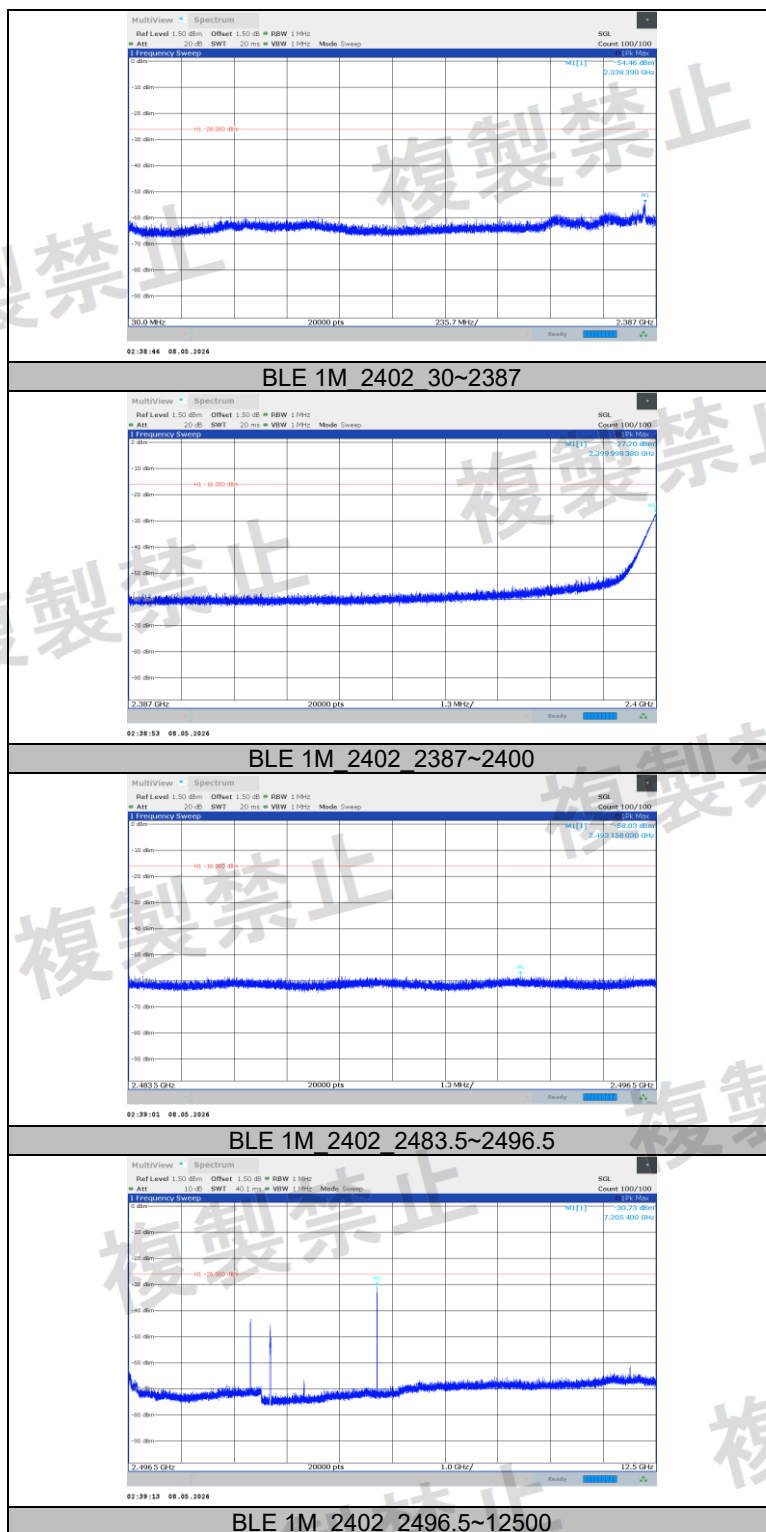
Test Result

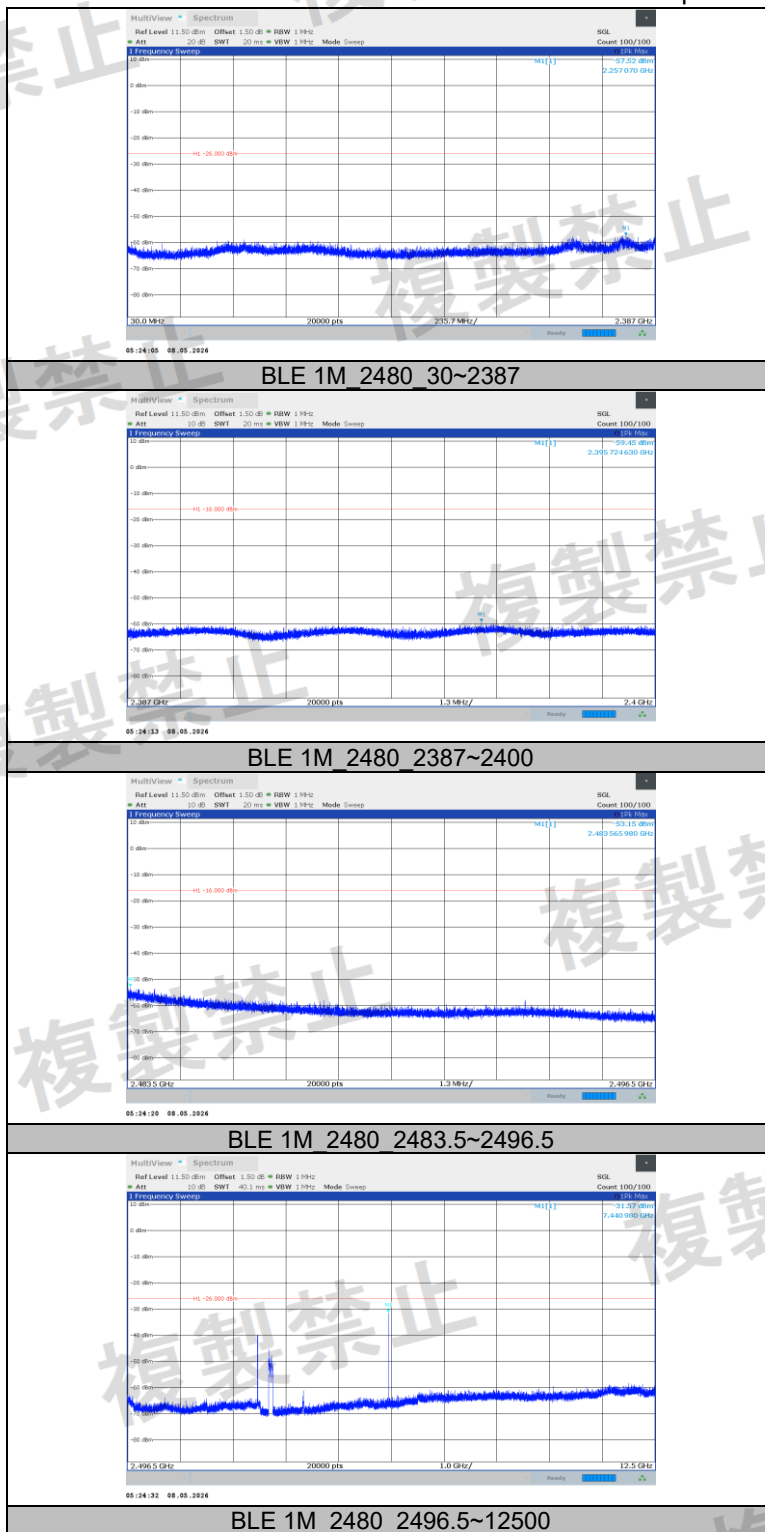
TestMode	Channel	FreqRange	Max. Fre(MHz)	Max. Level (dBm/MHz)	Max. Level (uW/mHz)	Limit (uW/mHz)	Verdict
BLE 1M	2402	30~2387	2338.390	-54.46	0.00358096	<=2.5	PASS
		2387~2400	2399.998	-27.20	1.90546072	<=25	PASS
		2483.5~2496.5	2493.158	-58.03	0.00157398	<=25	PASS
		2496.5~12500	7205.400	-30.73	0.84527885	<=2.5	PASS
	2480	30~2387	2257.070	-57.52	0.00177011	<=2.5	PASS
		2387~2400	2395.725	-59.45	0.00113501	<=25	PASS
		2483.5~2496.5	2483.566	-53.15	0.00484172	<=25	PASS
		2496.5~12500	7440.980	-31.57	0.69662651	<=2.5	PASS

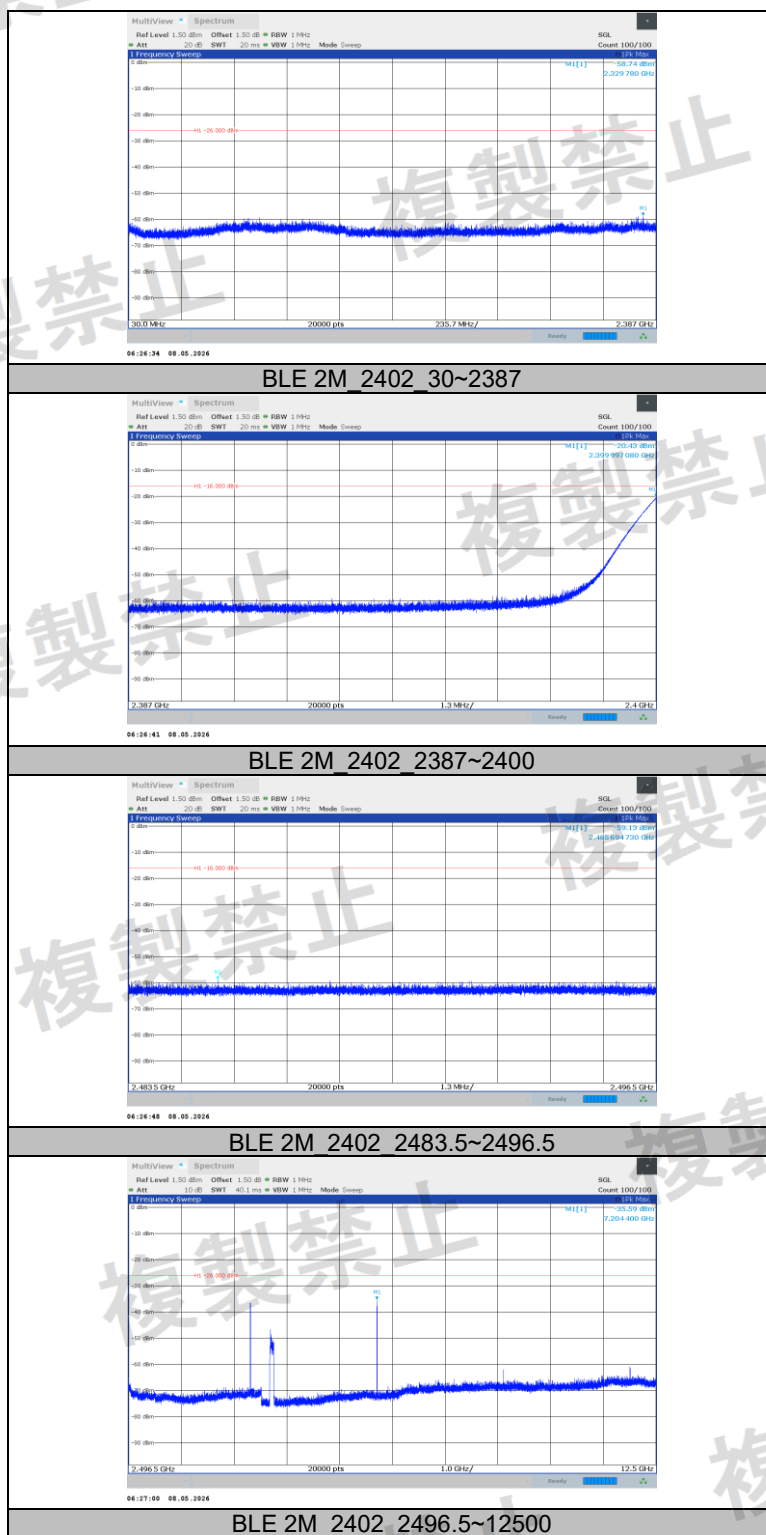
TestMode	Channel	FreqRange	Max. Fre(MHz)	Max. Level (dBm/MHz)	Max. Level (uW/mHz)	Limit (uW/mHz)	Verdict
BLE 2M	2402	30~2387	2329.780	-58.74	0.0013366	<=2.5	PASS
		2387~2400	2399.997	-20.43	9.05732601	<=25	PASS
		2483.5~2496.5	2485.695	-59.13	0.0012218	<=25	PASS
		2496.5~12500	7204.400	-35.59	0.27605779	<=2.5	PASS
	2480	30~2387	704.990	-44.87	0.03258367	<=2.5	PASS
		2387~2400	2396.434	-59.36	0.00115878	<=25	PASS
		2483.5~2496.5	2483.506	-46.58	0.0219786	<=25	PASS
		2496.5~12500	7441.480	-32.10	0.616595	<=2.5	PASS

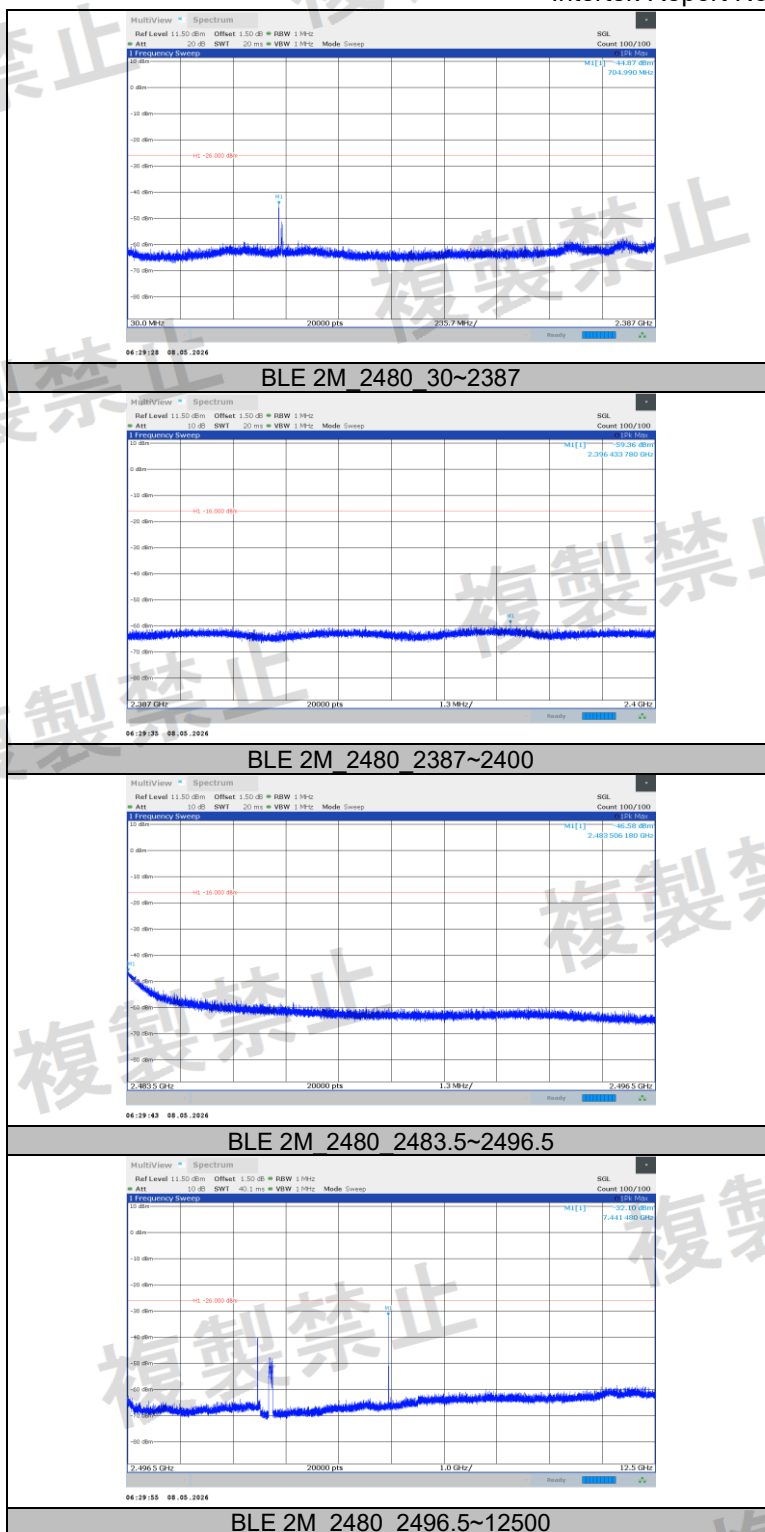
Note: Measurement Uncertainty: ± 0.55 dB

Test Graphs









7.11 Spurious Emissions of Rx

Test Requirement:

Article 2 paragraph 1 item (19)

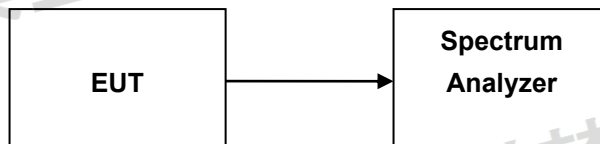
(1) Below 1 GHz: 4 nW ($\leq -54\text{dBm}$)

(2) 1 GHz and over: 20 nW ($\leq -47\text{dBm}$)

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 26 GHz by peak mode.

Step 2

IF the value measured by Step1 is 3 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz-2400 MHz , 2483.5 MHz-26 GHz

RBW 100 kHz (30-1GHz) , 1 MHz (over 1GHz)

VBW 100 kHz (30-1GHz) , 1 MHz (over 1GHz)

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

RBW 100 kHz (30-1GHz) , 1 MHz (over 1GHz)

VBW 100 kHz (30-1GHz) , 1 MHz (over 1GHz)

Sweep Time Auto

Detector mode Sample

Indication mode Max hold

Test result: PASS

Note: All the configuration were tested, but only the worst data were reported in this report.

Spurious Emissions of Rx

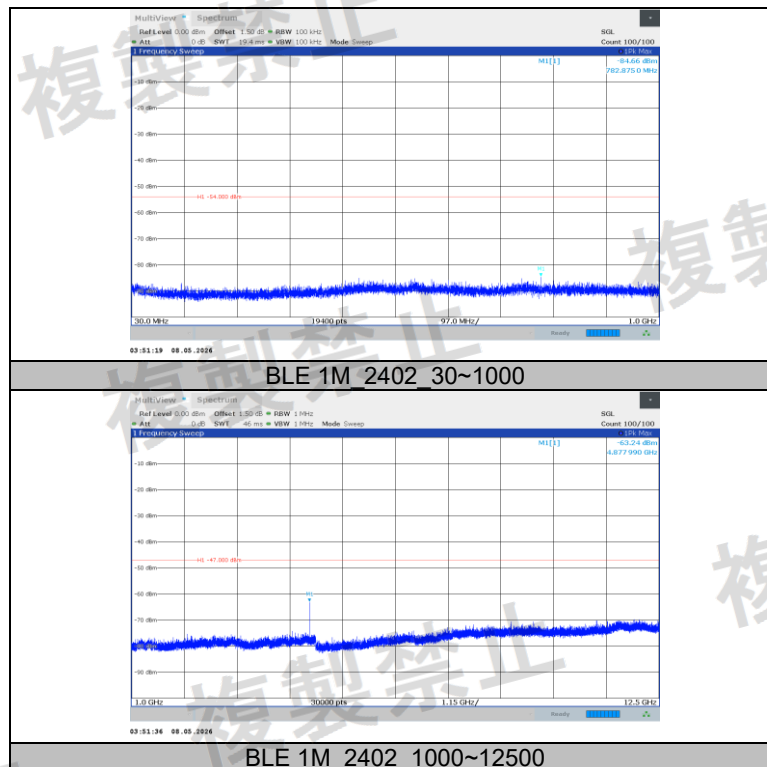
Test Result

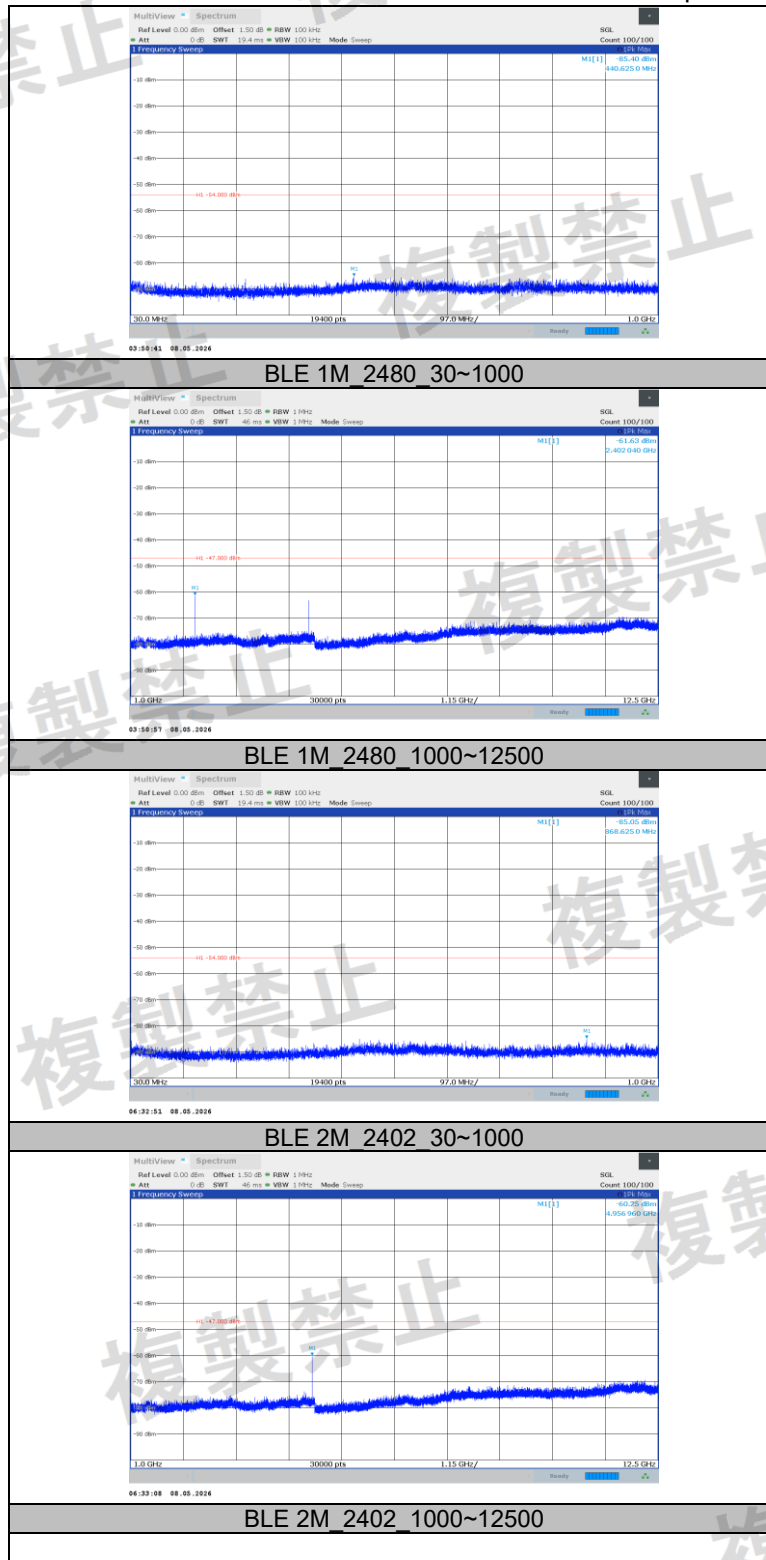
TestMode	Channel	FreqRange	Max. Fre(MHz)	Max. Level (dBm)	Max. Level (nW)	Limit (nW)	Verdict
BLE 1M	2402	30~1000	782.889	-84.659	0.00342058	<=4	PASS
		1000~12500	4877.929	-63.242	0.47402364	<=20	PASS
	2480	30~1000	440.621	-85.402	0.0028827	<=4	PASS
		1000~12500	2401.897	-61.625	0.68785991	<=20	PASS

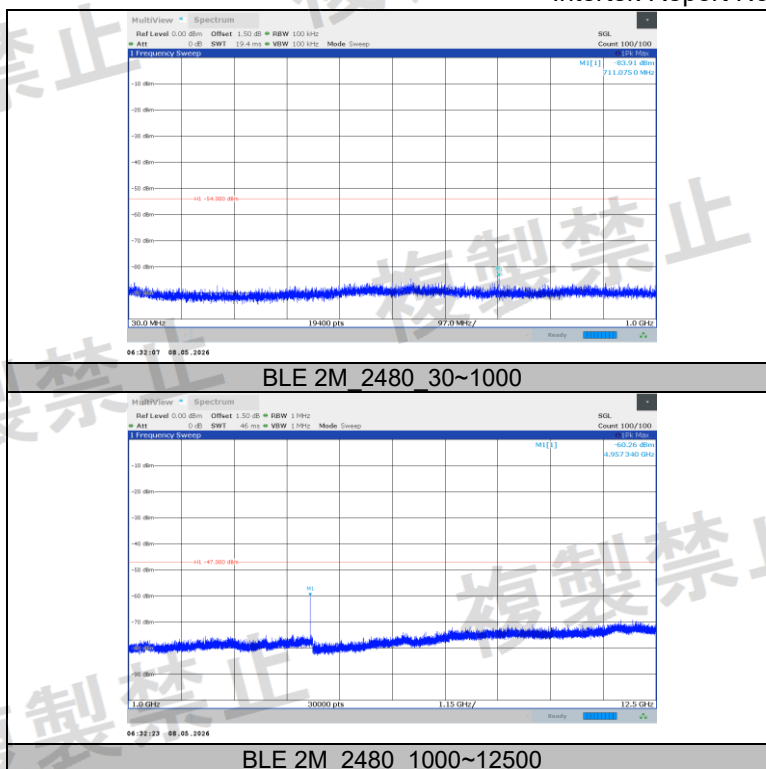
TestMode	Channel	FreqRange	Max. Fre(MHz)	Max. Level (dBm)	Max. Level (nW)	Limit (nW)	Verdict
BLE 2M	2402	30~1000	868.643	-85.054	0.0031232	<=4	PASS
		1000~12500	4956.899	-60.253	0.94340897	<=20	PASS
	2480	30~1000	711.085	-83.910	0.00406443	<=4	PASS
		1000~12500	4957.282	-60.264	0.94102248	<=20	PASS

Note: Measurement Uncertainty: ± 0.55 dB

Test Graphs







7.12 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

Bluetooth IC and related modulation components were welding on the PCB board and cannot be open or revise easily.



RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts on PCB or adjustable parts are not exposed. RF and Modulation parts comply with the annex of guideline "the number of terminals of semiconductor parts exceeds 10; and more than one Integrated Circuit (Interval between terminals is less than 1.5mm)", registered approval body conference document number 001(Rev.03), so that this product cannot be opened and modified easily.

Appendix A. EUT Test Setup and Constructional Details

Appendix A.1 EUT Test Setup



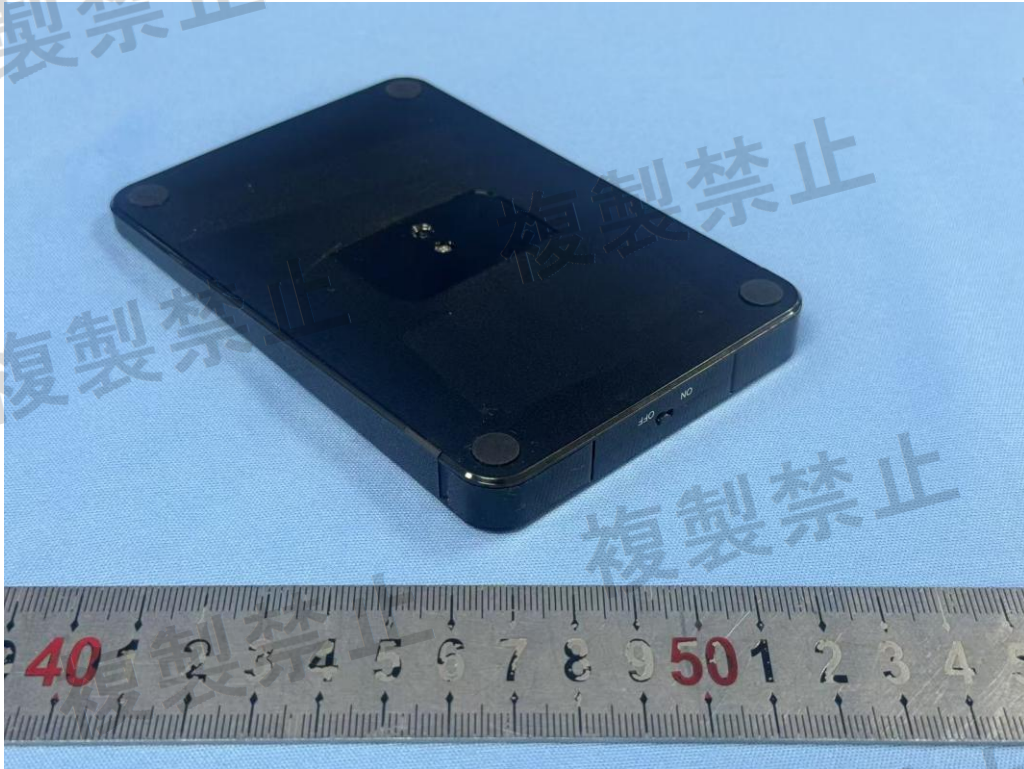
External Photo



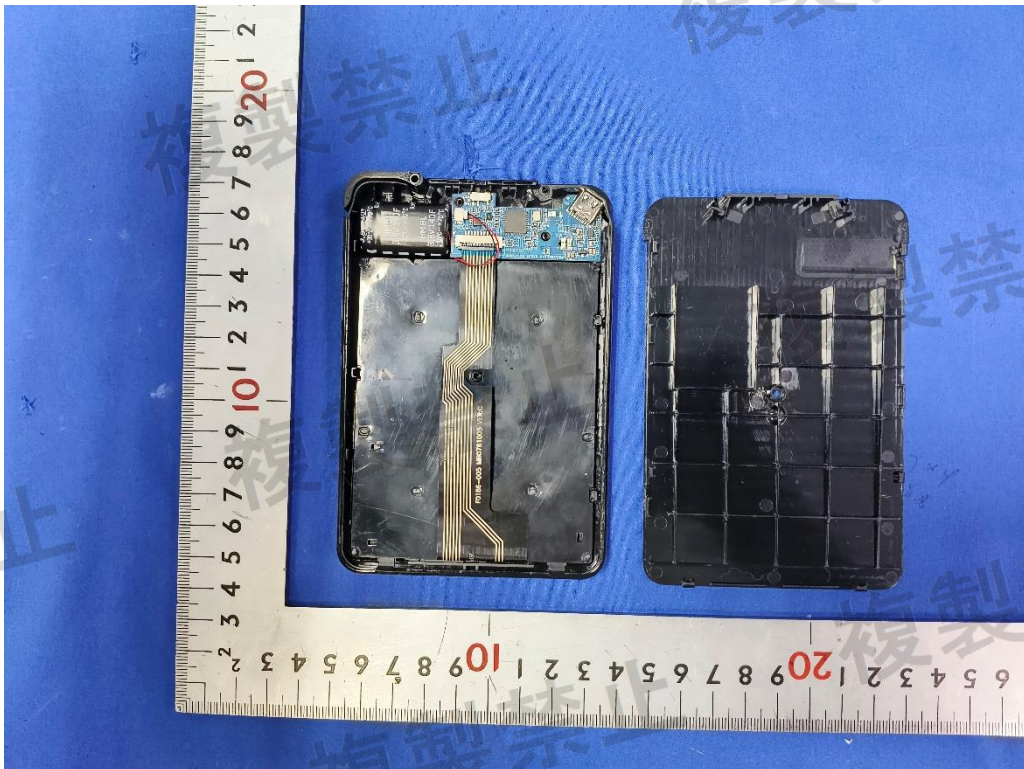
External Photo



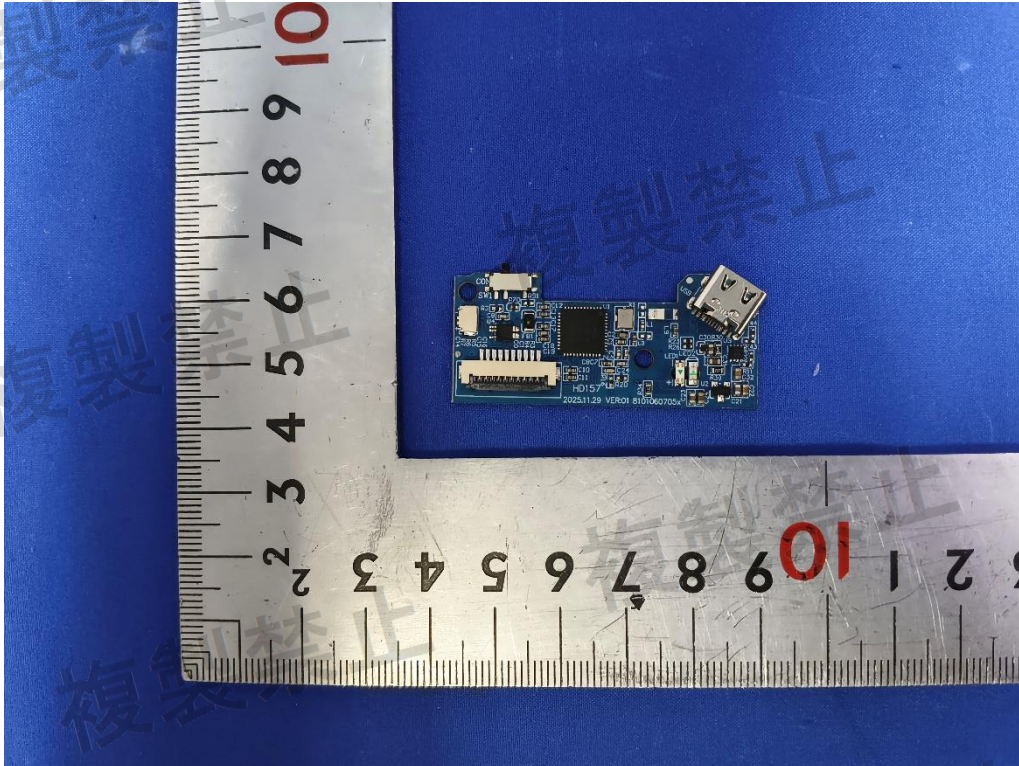
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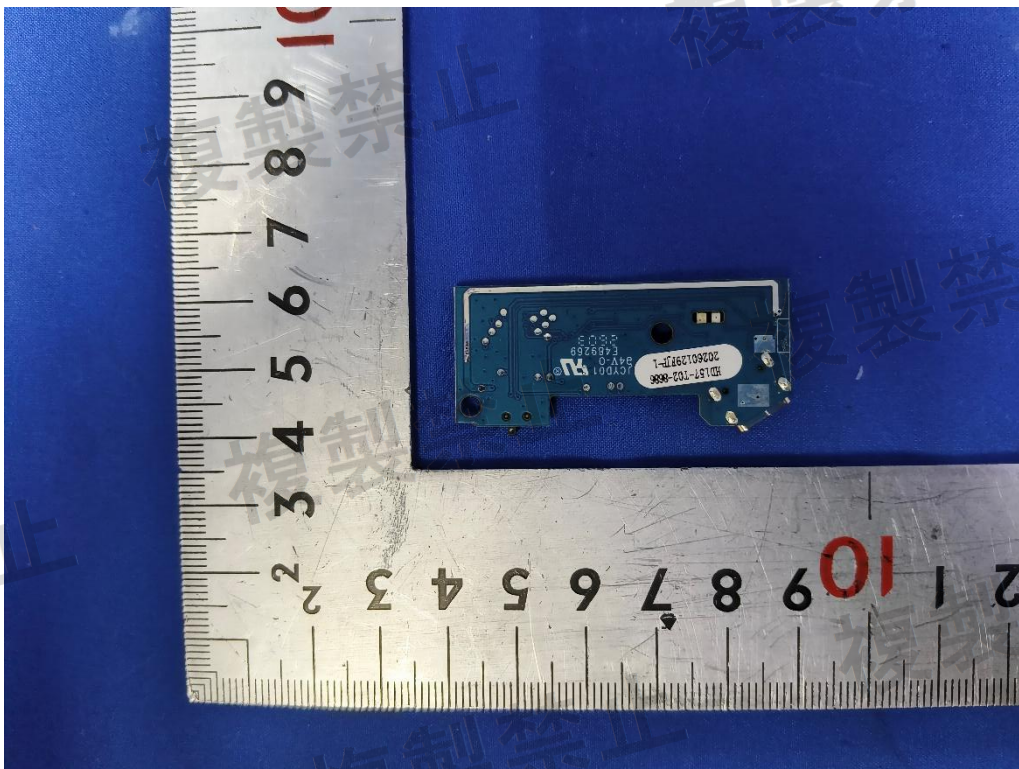
Internal Photo

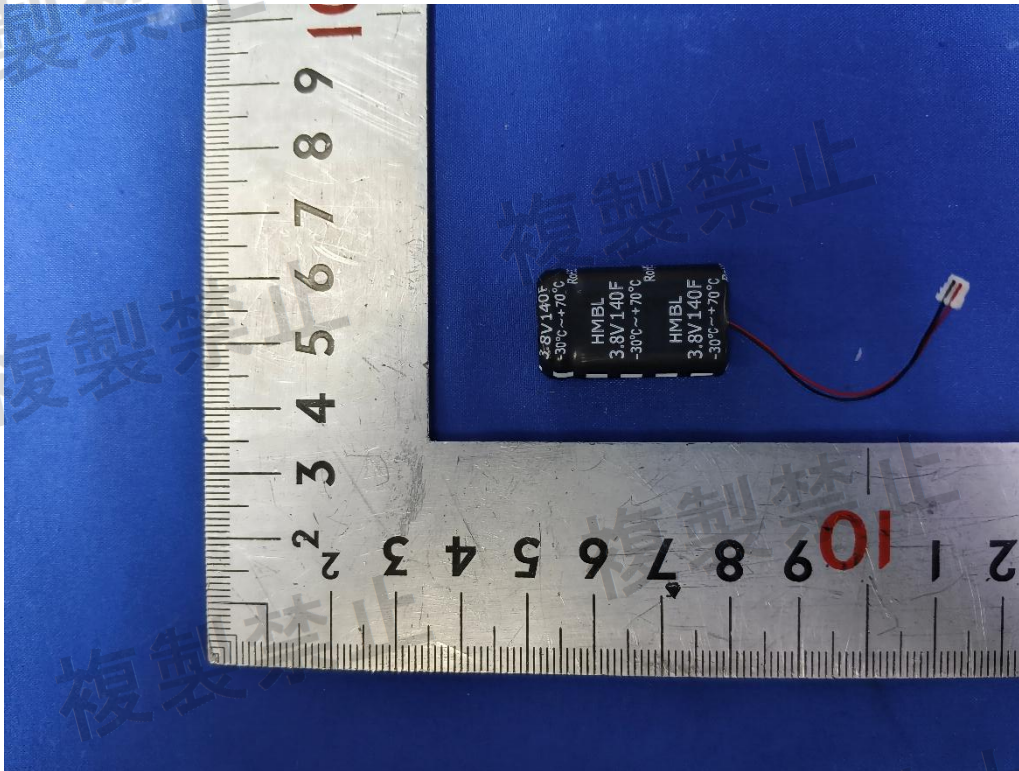


Internal Photo



Internal Photo





***** End of Report *****