

SEIKO EPSON CORPORATION

TEST REPORT

SCOPE OF WORK

JAPAN RADIO TESTING-B081E-03-W7

REPORT NUMBER

251209058SZN-001

ISSUE DATE

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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:	SEIKO EPSON CORPORATION
Address:	6925, TOYOSHINATAZAWA, AZUMINO-SHI, NAGANO, 399-8285, JAPAN
Manufacturer:	SEIKO EPSON CORPORATION
Address:	6925, TOYOSHINATAZAWA, AZUMINO-SHI, NAGANO, 399-8285, JAPAN
Product Name:	REMOTE CONTROL
Model No.:	B081E-03-W7
Brand Name:	EPSON
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:	Dec. 09, 2025
Date of Test:	Dec. 09, 2025 to Jan. 07, 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:	Feb. 28, 2026
Test Result:	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further detail.

Prepared and Checked By:

Approved By:



Signature

Tony Tang
Engineer



Signature

Johnny Wang
Project Engineer

Feb. 28, 2026 **Date**

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Intertek Testing Services Shenzhen Ltd.

No.101&201, Building B, No. 308, Wuhe Avenue, Zhangkengjing, Guanhu Street, Longhua District, Shenzhen, Guangdong, China

Tel: (86 755) 8601 6288

Fax: (86 755) 8601 6751

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1 Revision History

Report No.	Version	Description	Issued Date
251209058SZN-001	Rev.01	Initial issue of report	Feb. 28, 2026

2 Summary of Test Result

Test	Test Requirement	Limit/Severity	Result
Antenna Requirement	Article 2 paragraph 1 item (19)	Notice 88 Appendix 43, B-1 (1) & (2)	Pass
Test Frequency	Article 2 paragraph 1 item (19)	Notice 88 Appendix 43, A-3	Pass
Frequency Tolerance	Article 2 paragraph 1 item (19)	±50 ppm or less	Pass
Occupied Bandwidth	Article 2 paragraph 1 item (19)	Others: 26MHz or less	Pass
Antenna Power	Article 2 paragraph 1 item (19)	Other than (1) & (2) 10mW(10dBm) Tolerance: +20%	Pass
Spurious Emission of Tx	Article 2 paragraph 1 item (19)	(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	Article 2 paragraph 1 item (19)	Notice 88 Appendix 43, 44, 45	Pass
RF accessibility	Article 2 paragraph 1 item (19)	Notice 88 Appendix 43, 44, 45	Pass
Spurious Emission of Rx	Article 2 paragraph 1 item (19)	(1) Below 1 GHz: 4nW or less(≤-54dBm) (2) 1 GHz and over: 20nW or less(≤-47dBm)	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.

3 General Information

3.1 Client Information

Applicant: SEIKO EPSON CORPORATION
Address of Applicant: 6925, TOYOSHINATAZAWA, AZUMINO-SHI, NAGANO, 399-8285, JAPAN
Manufacturer: SEIKO EPSON CORPORATION
Address of Manufacturer: 6925, TOYOSHINATAZAWA, AZUMINO-SHI, NAGANO, 399-8285, JAPAN

3.2 General Description of EUT

Product Name: REMOTE CONTROL
Model No.: B081E-03-W7
Brand Name: EPSON

3.3 Details of EUT

Operating Frequency: 2402MHz-2480MHz
Bluetooth Version: BT 5.0
Type of Modulation: GFSK
Transmit Data Rate: GFSK: 1Mbps
Number of Channels: 40 for BT BLE
Channel Separation: 2MHz for BT BLE
Antenna Type: PCB antenna
Antenna gain: 1.92dBi
Normal antenna power: F1D: 3.0 mW (BLE)
Power Supply: DC 3.0V from 2*AAA battery

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Laptop	DELL	Latitude 5420
Test Software (provided by applicant): AB161x_Airoha_Tool_Kit(ATK)_V2.0.44.4 was installed on the laptop.		

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 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	101101	2025-12-01	2026-12-01	CEPREI CALIBRATION & TESTING CENTER	C
Wideband Radio Communication Tester	R&S	CMW500	154161	2025-07-14	2026-07-14	CEPREI CALIBRATION & TESTING CENTER	C
RF Power Meter	Anritsu	ML2496A	1302005	2025-04-21	2026-04-21	CEPREI CALIBRATION & TESTING CENTER	C
Pulse Power Sensor	Anritsu	MA2411B	1207429	2025-04-21	2026-04-21	CEPREI CALIBRATION & TESTING CENTER	C
True RMS Multimeter	Fluke	175	10470115	2025-12-02	2026-12-02	CEPREI CALIBRATION & TESTING CENTER	C
Attenuator	Agilent	8494B	MY42151964	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 night 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.

5 Test Results

5.1 Radio Technical Requirements Specification

Table1: 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

5.2 E.U.T. test conditions

Power supply:

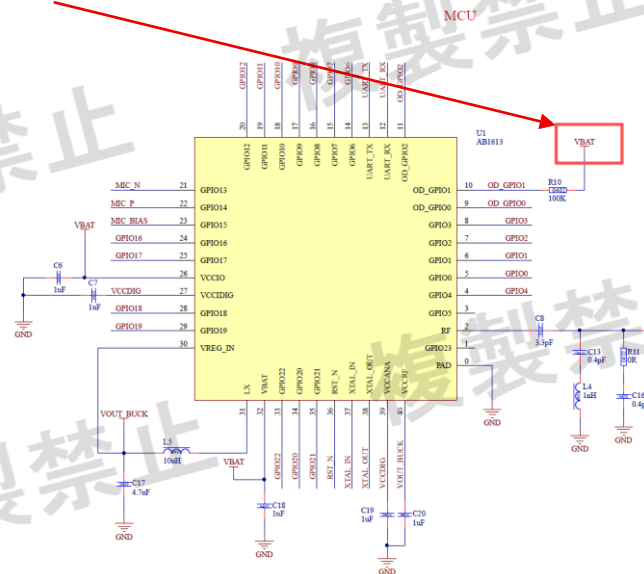
DC 3.0V

The RF unit is supplied by DC 3.0V. The fluctuation of input voltage to the circuit of RF unit of test equipment is over $\pm 1\%$, when input voltage from DC 3.0V to the test equipment is fluctuated by $\pm 10\%$, So, all measurement has been conducted by rated voltage, low voltage and high voltage.

The measurement result of the voltage fluctuation at RF circuit when DC 3.0V $\pm 10\%$.

Power supply voltage	Measured value	Condition
DC 3.0V	DC 3.0V	NTNV
DC 2.7V	DC 2.7V	NTLV
DC 3.3V	DC 3.3V	NTHV

Test Point



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
Middle Channel:	19	2440MHz
High Channel:	39	2480MHz

5.3 Test Environment

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

5.4 Antenna Requirement

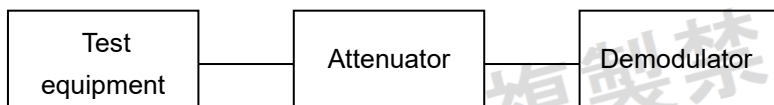
EUT Antenna

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna 1.92dBi max.

5.5 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: **34D69306A93F**

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

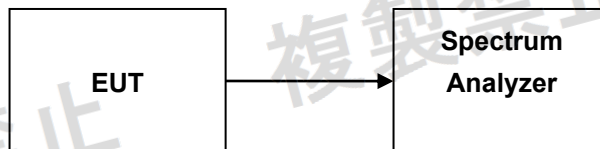
5.6 Frequency Tolerance

Test Requirement:

Article 2 paragraph 1 item (19)

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

Test Configuration:



Test Procedure:

1. Test the EUT in transmitting mode without modulation.

In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a spectrum analyzer.

In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.

2. 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.

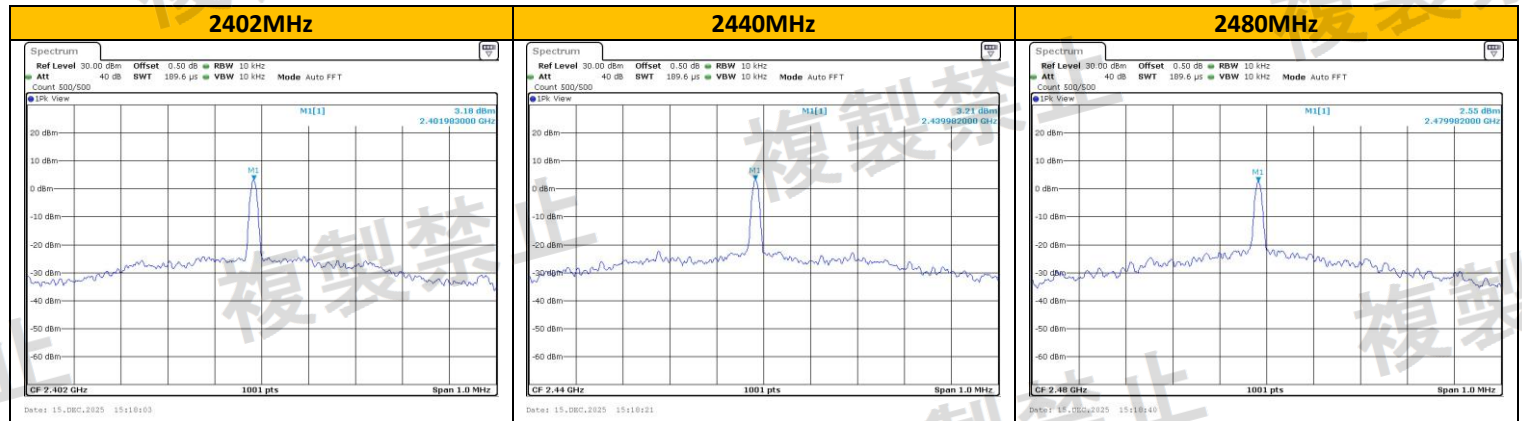
The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2.

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

Test result: PASS

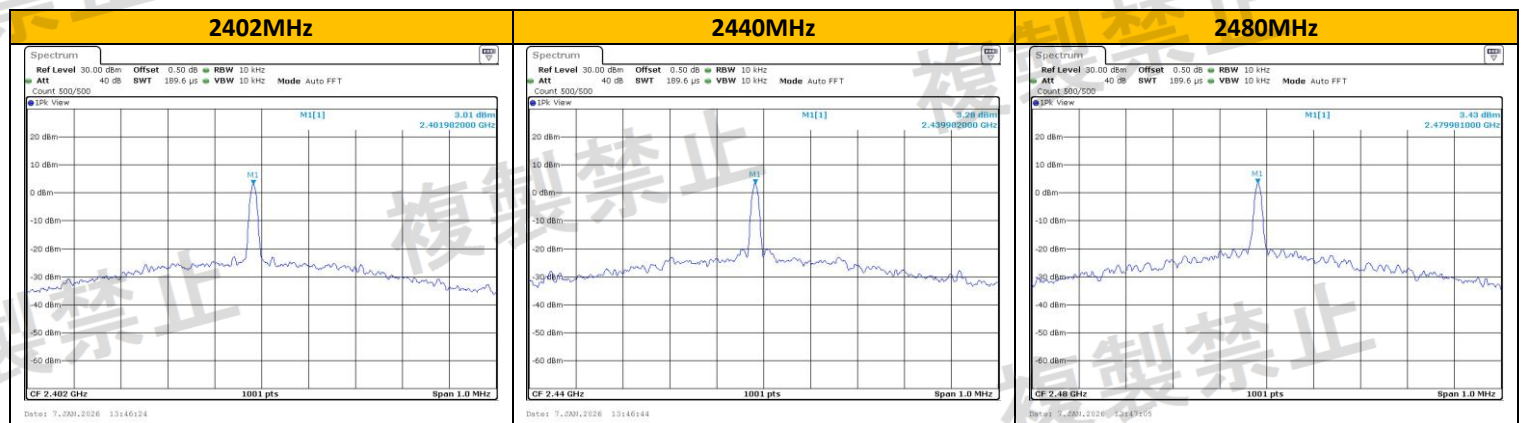
Frequency Tolerance

NTNV



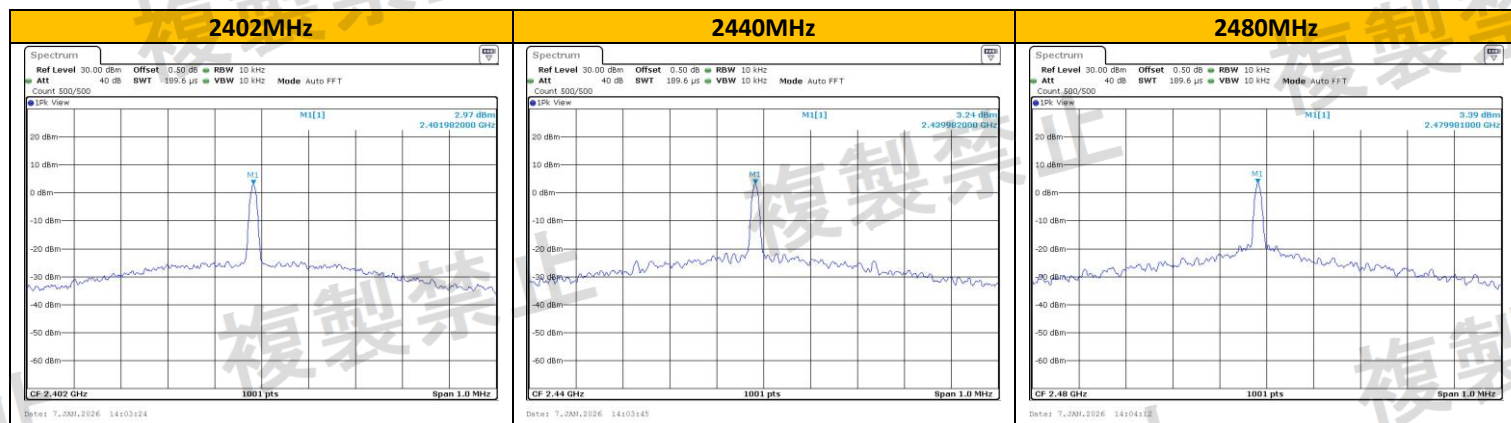
Frequency (MHz)	Carrier Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)	Result
2402	2401.983	-7.08	±50 or less	Pass
2440	2439.982	-7.38	±50 or less	Pass
2480	2479.982	-7.26	±50 or less	Pass

NTLV



Frequency (MHz)	Carrier Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)	Result
2402	2401.982	-7.49	±50 or less	Pass
2440	2439.982	-7.38	±50 or less	Pass
2480	2479.981	-7.66	±50 or less	Pass

NTHV



Frequency (MHz)	Carrier Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)	Result
2402	2401.982	-7.49	±50 or less	Pass
2440	2439.982	-7.38	±50 or less	Pass
2480	2479.981	-7.66	±50 or less	Pass

5.7 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 BLE:

Frequency: Test Frequency

Span 3MHz

RBW 30KHz

VBW 30KHz

Sweep Time Auto

Detector mode Positive peak

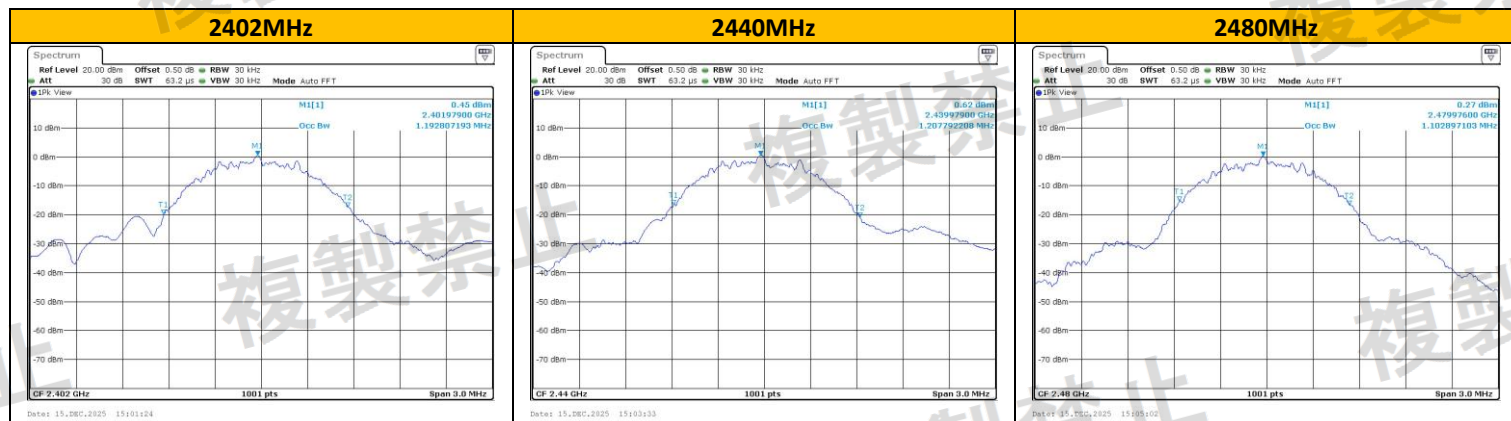
Indication mode Max hold

OBW 99%

Test result: Pass

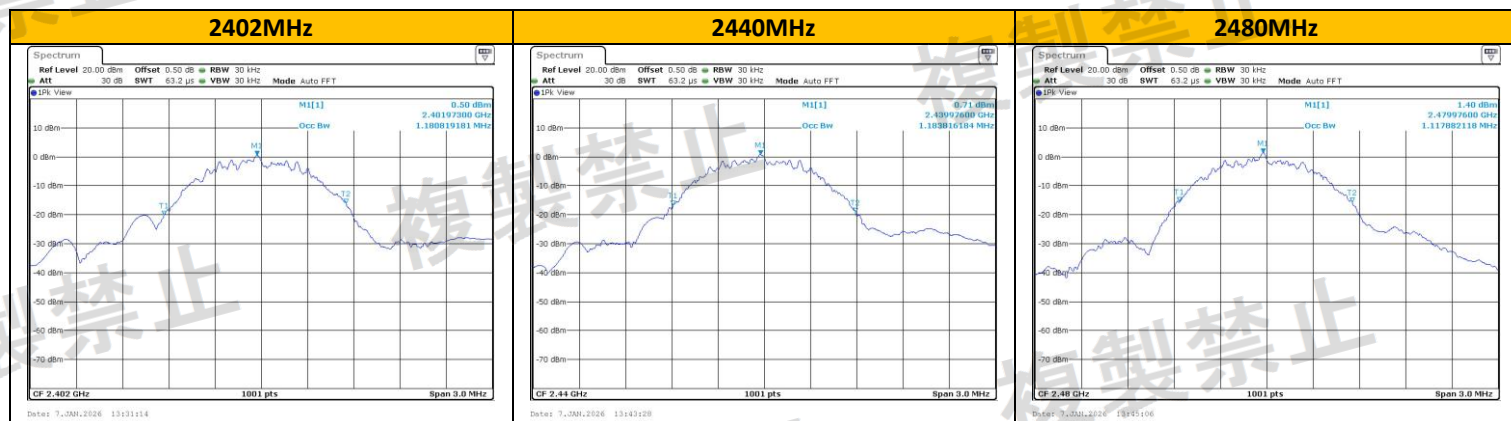
NTNV

Occupied Bandwidth (99%)



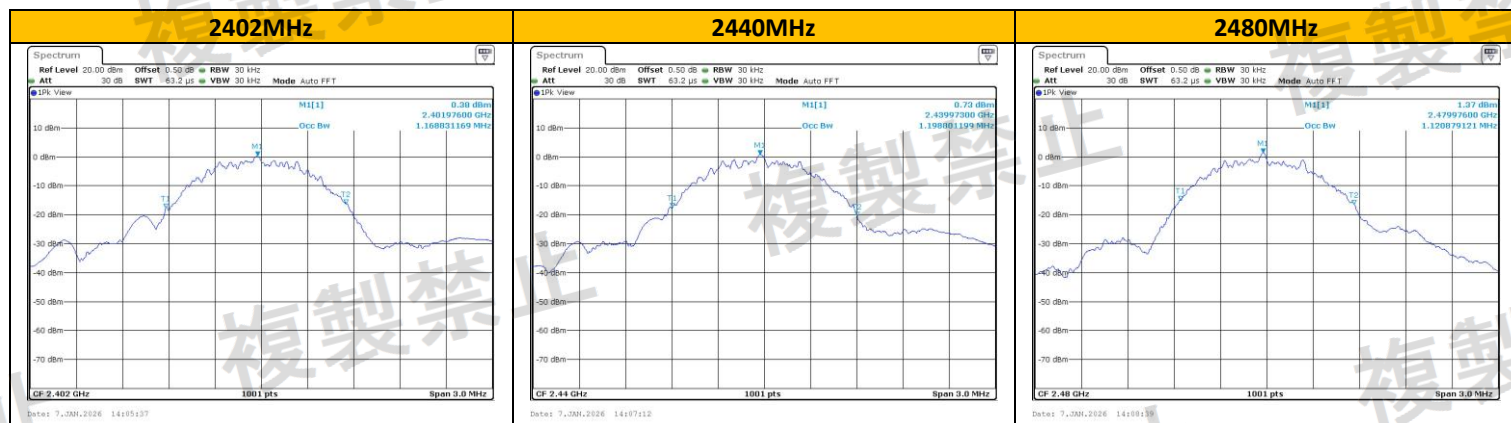
Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	2402	1.193	26 or less	Pass
	2440	1.208	26 or less	Pass
	2480	1.103	26 or less	Pass

NTLV



Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	2402	1.181	26 or less	Pass
	2440	1.184	26 or less	Pass
	2480	1.118	26 or less	Pass

NTHV



Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	2402	1.169	26 or less	Pass
	2440	1.199	26 or less	Pass
	2480	1.121	26 or less	Pass

5.8 Spread spectrum Bandwidth (90%)

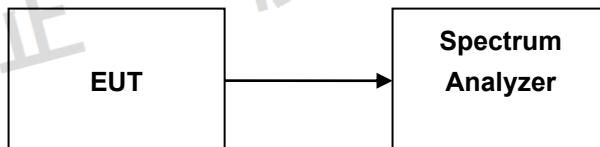
Test Requirement:

Article 2 paragraph 1 item (19)

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 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: N/A

5.9 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 ON

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

3. Power meter conditions:

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.

4. Spectrum analyzer:

Search

Measurement

Span: OBW×2

Center Frequency: Searched frequency

RBW: 1MHz

Span:0

VBW: = RBW

RBW:>OBW

Detector: Positive peak

VBW:>OBW

Display mode: Max hold

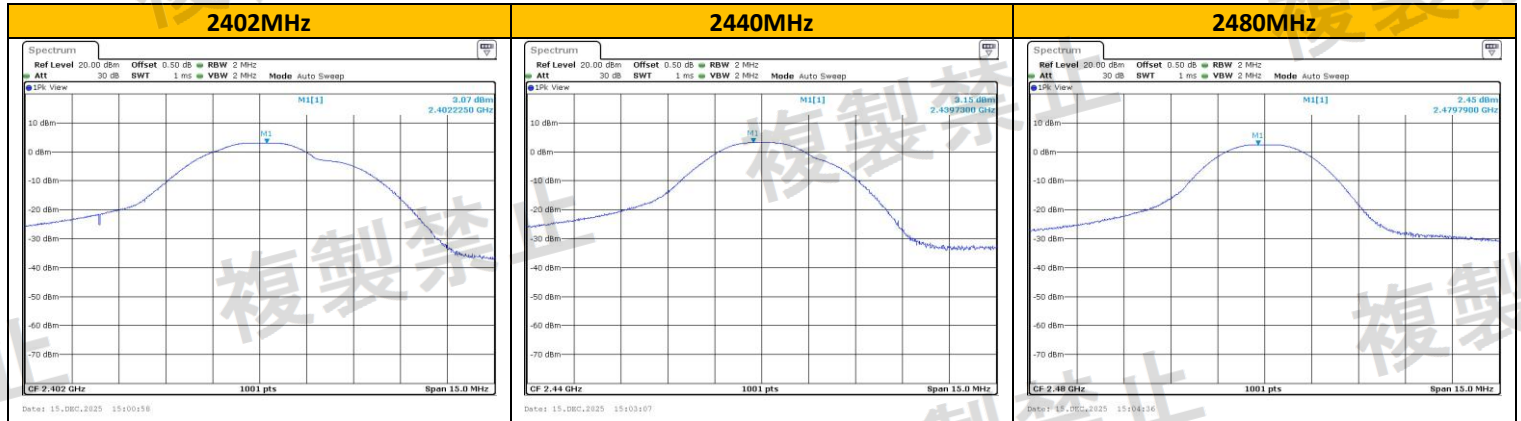
Detector: Positive peak

Display mode: Max hold

Test result: PASS

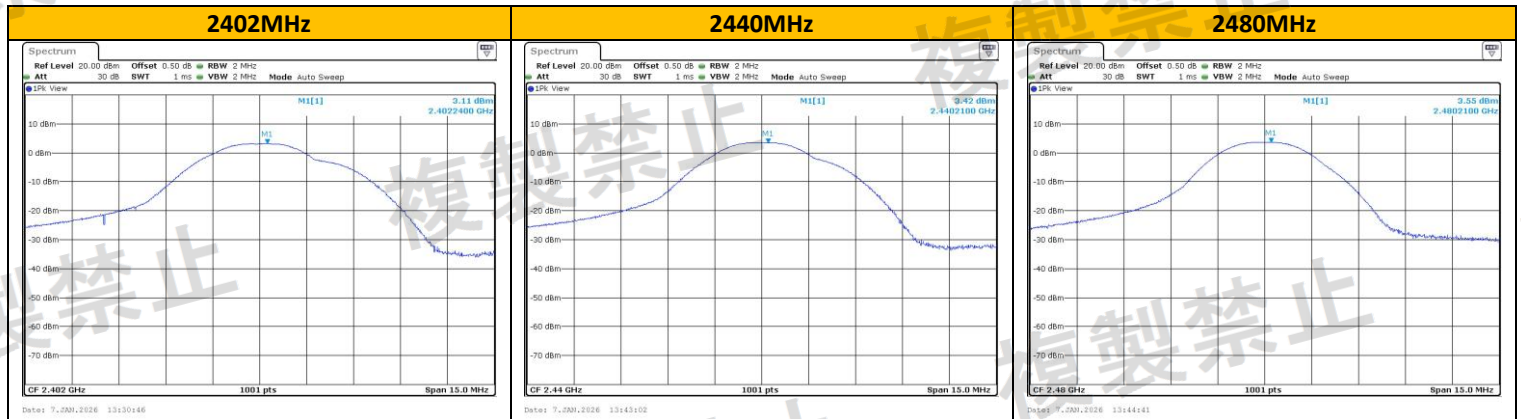
Antenna Power

NTNV



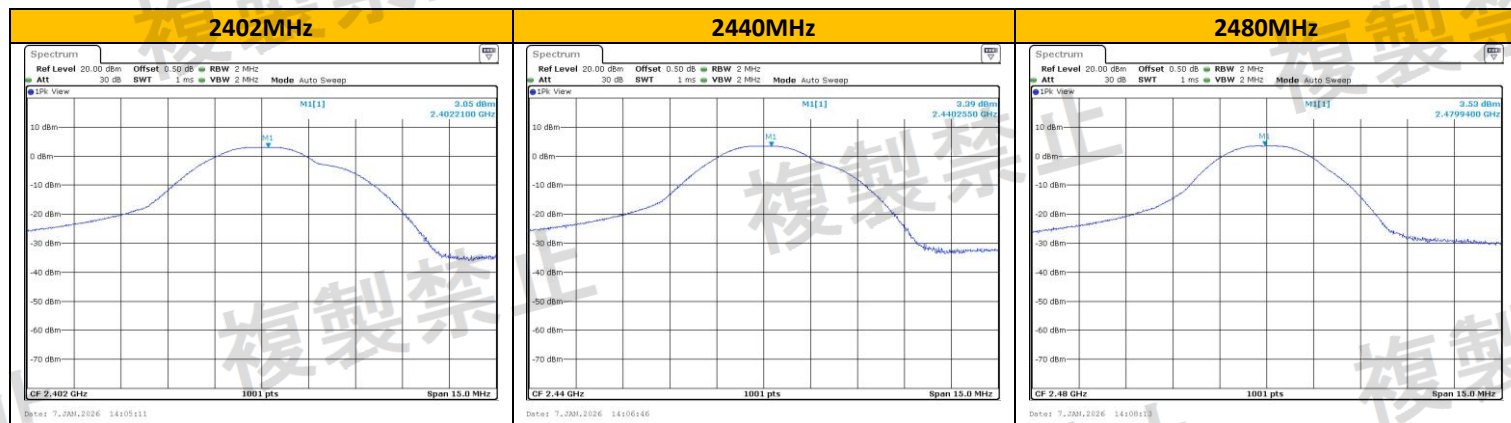
Test Mode	Frequency (MHz)	Antena Power (dBm)	Antena Power (mW)	EIPR (dBm)	EIPR (mW)	Limit (mW)	Rated power (mW)	Tolerance (%)	Limit	Result
BLE 1M	2402	3.07	2.03	4.99	3.16	10 or less	3.0	-32.33	Upper +20%	Pass
	2440	3.15	2.07	5.07	3.21	10 or less	3.0	-31.00	Upper +20%	Pass
	2480	2.45	1.76	4.37	2.74	10 or less	3.0	-41.33	Upper +20%	Pass

NTLV



Test Mode	Frequency (MHz)	Antena Power (dBm)	Antena Power (mW)	EIPR (dBm)	EIPR (mW)	Limit (mW)	Rated power (mW)	Tolerance (%)	Limit	Result
BLE 1M	2402	3.11	2.05	5.03	3.18	10 or less	3.0	-31.67	Upper +20%	Pass
	2440	3.42	2.20	5.34	3.42	10 or less	3.0	-26.67	Upper +20%	Pass
	2480	3.55	2.26	5.47	3.52	10 or less	3.0	-24.67	Upper +20%	Pass

NTHV



Test Mode	Frequency (MHz)	Antenna Power (dBm)	Antenna Power (mW)	EIPR (dBm)	EIPR (mW)	Limit (mW)	Rated power (mW)	Tolerance (%)	Limit	Result
BLE 1M	2402	3.05	2.02	4.97	3.14	10 or less	3.0	-32.67	Upper +20%	Pass
	2440	3.39	2.18	5.31	3.40	10 or less	3.0	-27.33	Upper +20%	Pass
	2480	3.53	2.25	5.45	3.51	10 or less	3.0	-25.00	Upper +20%	Pass

5.10 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 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

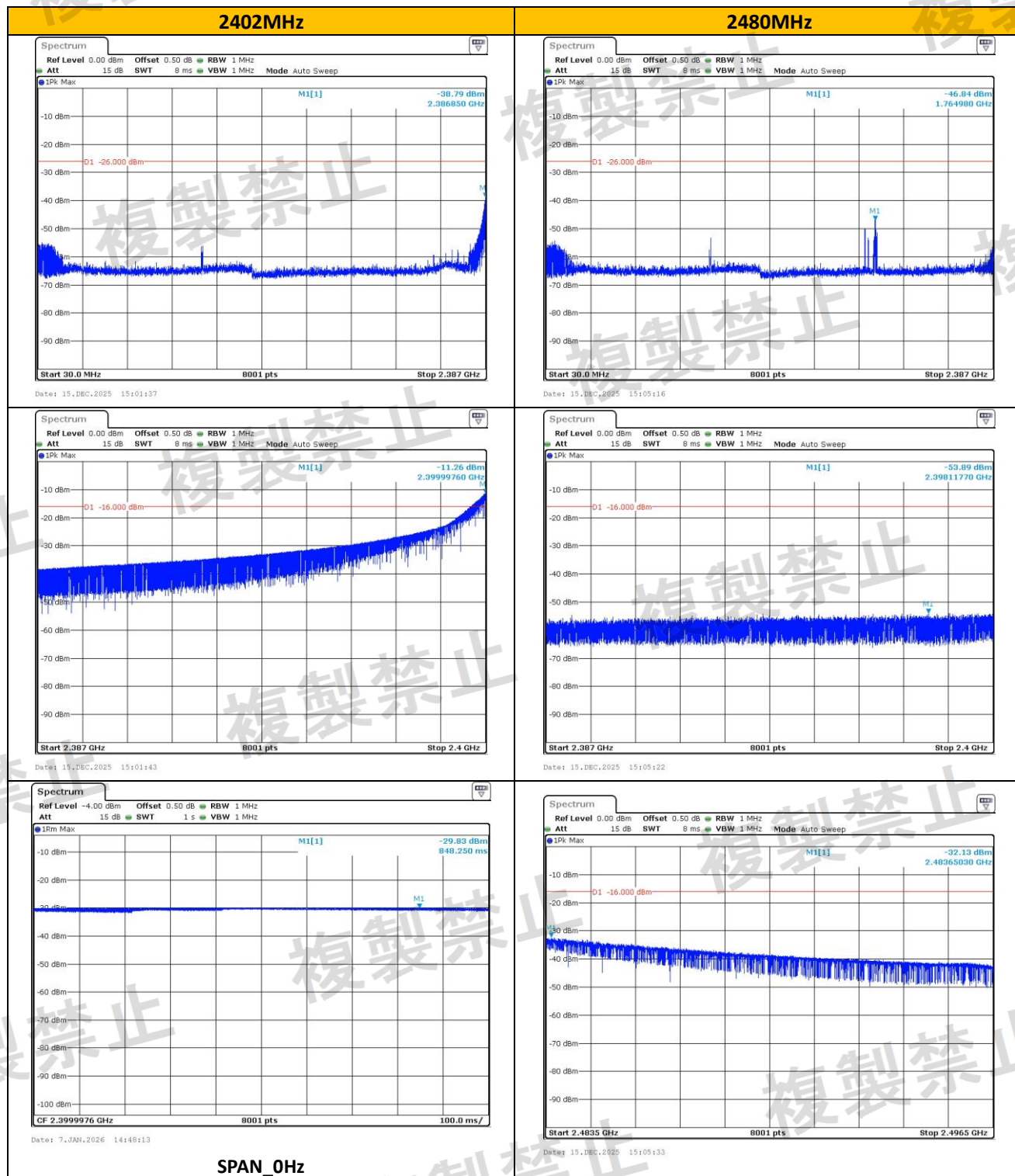
Detector mode Sample

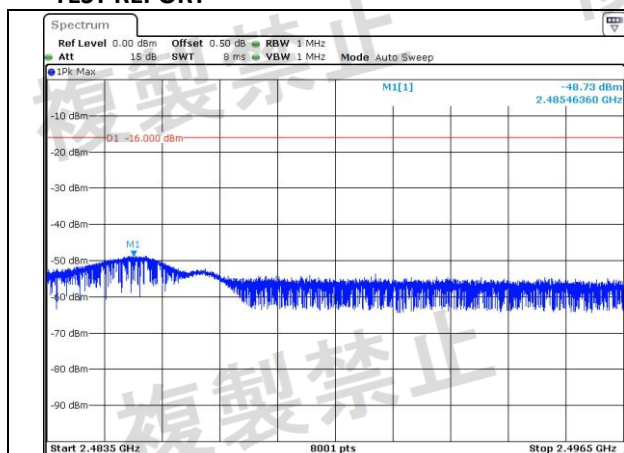
Indication mode Max hold

Test result: PASS

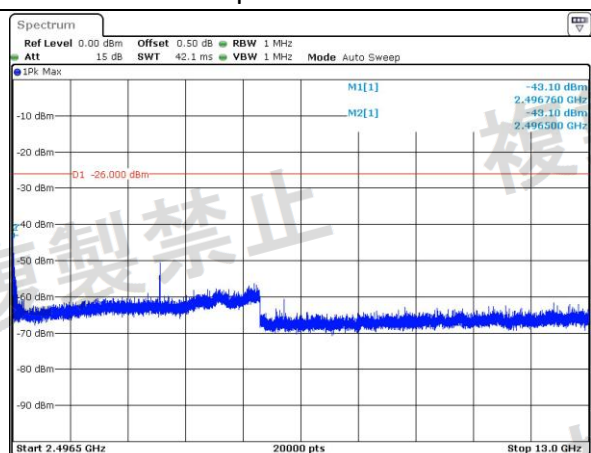
Spurious Emissions of Tx

NTNV

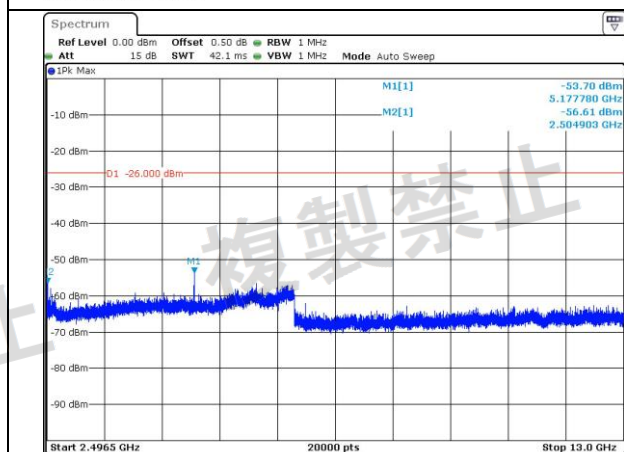




Date: 15.DEC.2025 15:01:55



Date: 15.DEC.2025 15:05:39



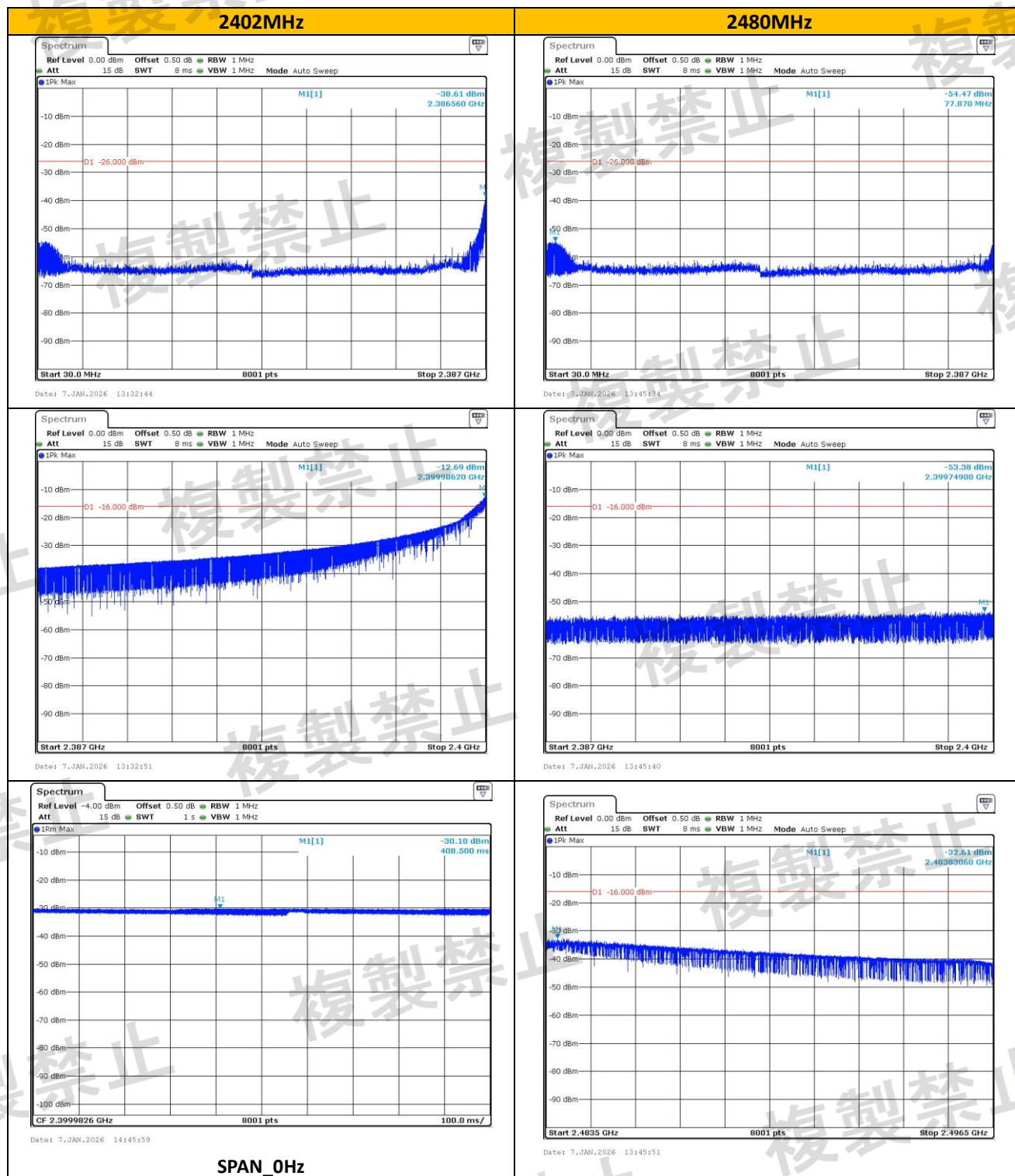
Date: 15.DEC.2025 15:02:01

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

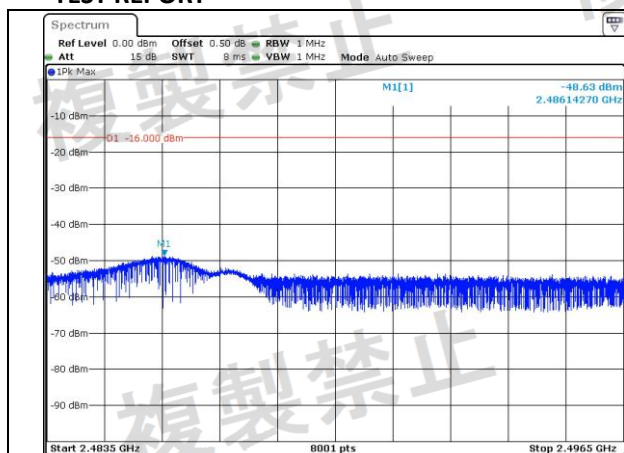
Test band	2402MHz			2480MHz			Limit (μ W/MHz)	Result
	Frequency (MHz)	dBm/MHz	μ W/MHz	Frequency (MHz)	dBm/MHz	μ W/MHz		
30MHz to 2387MHz	2386.85	-38.79	0.1321	1764.98	-46.84	0.0207	2.5	Pass
2387MHz to 2400MHz	2400.00	-29.83	1.0399	2398.12	-53.89	0.0041	25	Pass
2483.5MHz to 2496.5MHz	2485.46	-48.73	0.0134	2483.65	-32.13	0.6124	25	Pass
2496.5MHz to 13GHz	5177.78	-53.70	0.0043	2496.50	-43.10	0.0490	2.5	Pass

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

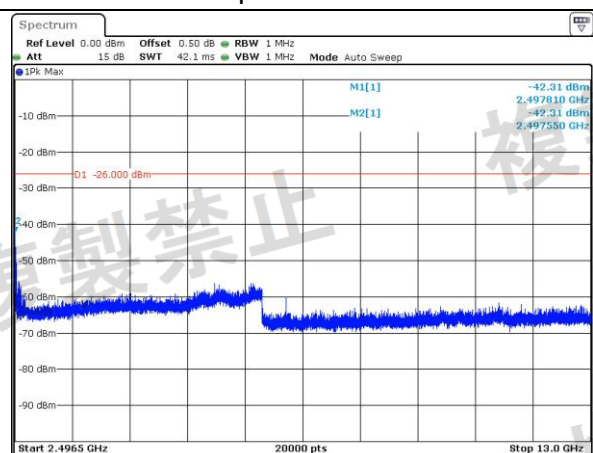
NTLV



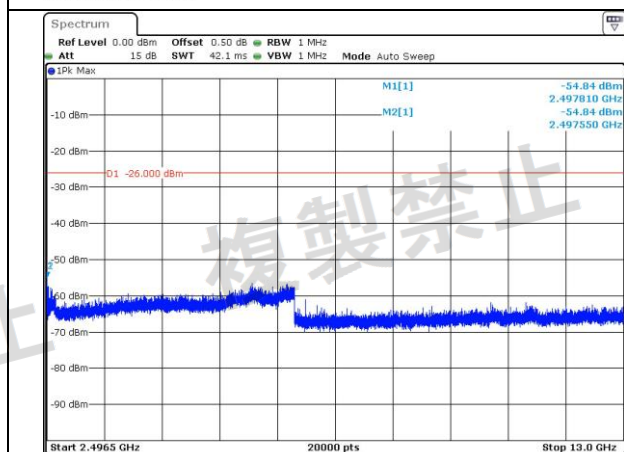
SPAN_0Hz



Date: 7, JAN, 2026 13:33:02



Date: 7, JAN, 2026 13:45:57



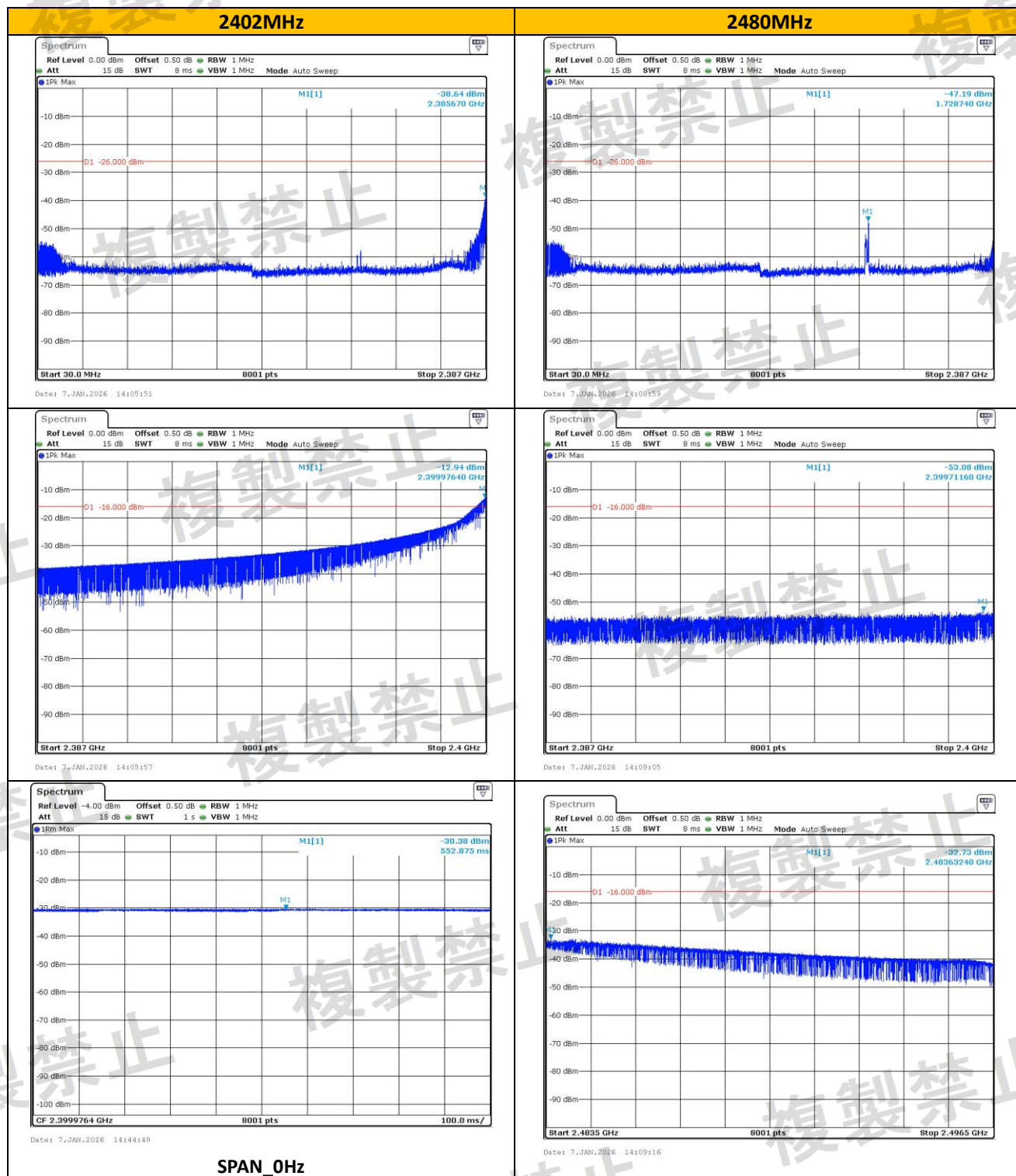
Date: 7, JAN, 2026 13:33:08

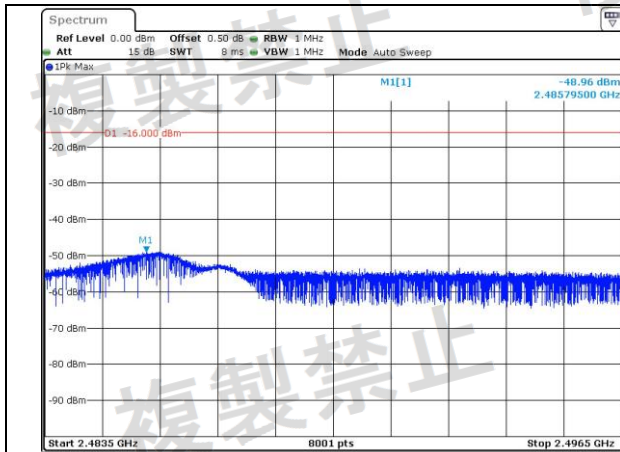
Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

Test band	2402MHz			2480MHz			Limit (μ W/MHz)	Result
	Frequency (MHz)	dBm/MHz	μ W/MHz	Frequency (MHz)	dBm/MHz	μ W/MHz		
30MHz to 2387MHz	2386.56	-38.61	0.1377	77.87	-54.47	0.0036	2.5	Pass
2387MHz to 2400MHz	2399.99	-30.10	0.9772	2399.75	-53.38	0.0046	25	Pass
2483.5MHz to 2496.5MHz	2486.14	-48.63	0.0137	2483.83	-32.61	0.5483	25	Pass
2496.5MHz to 13GHz	2497.55	-54.84	0.0033	2497.55	-42.31	0.0587	2.5	Pass

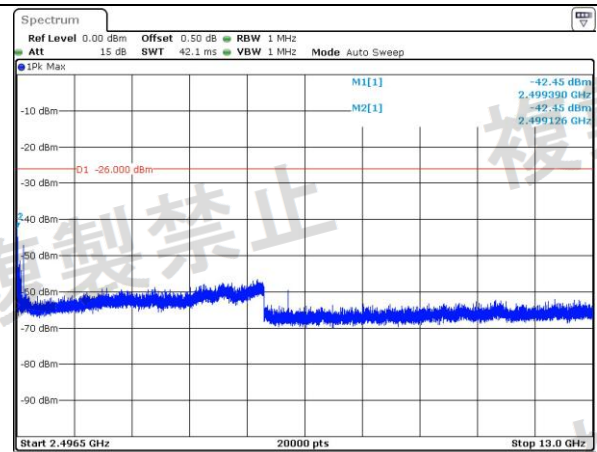
Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

NTHV

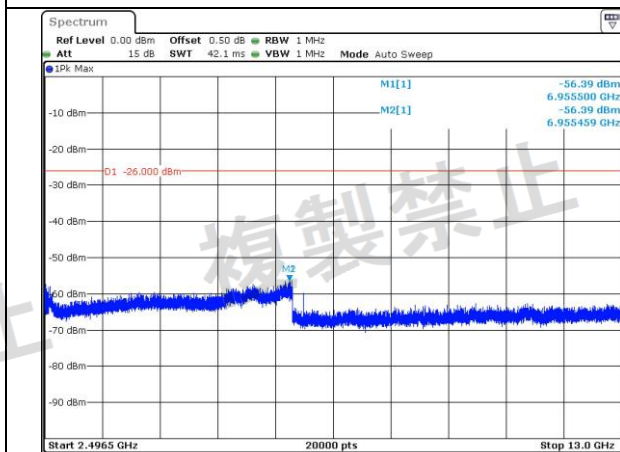




Date: 7, JAN, 2026 14:06:08



Date: 7, JAN, 2026 14:09:22



Date: 7, JAN, 2026 14:06:15

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

Test band	2402MHz			2480MHz			Limit (μ W/MHz)	Result
	Frequency (MHz)	dBm/MHz	μ W/MHz	Frequency (MHz)	dBm/MHz	μ W/MHz		
30MHz to 2387MHz	2385.67	-38.64	0.1368	1728.74	-47.19	0.0191	2.5	Pass
2387MHz to 2400MHz	2399.98	-30.38	0.9162	2399.71	-53.08	0.0049	25	Pass
2483.5MHz to 2496.5MHz	2485.80	-48.96	0.0127	2483.63	-32.73	0.5333	25	Pass
2496.5MHz to 13GHz	6955.46	-56.39	0.0023	2499.13	-42.45	0.0569	2.5	Pass

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

5.11 Spurious Emissions of Rx

Test Requirement:

Article 2 paragraph 1 item (19)

(1) Below 1 GHz: 4 nW (≤ -54 dBm)

(2) 1 GHz and over: 20 nW (≤ -47 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 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

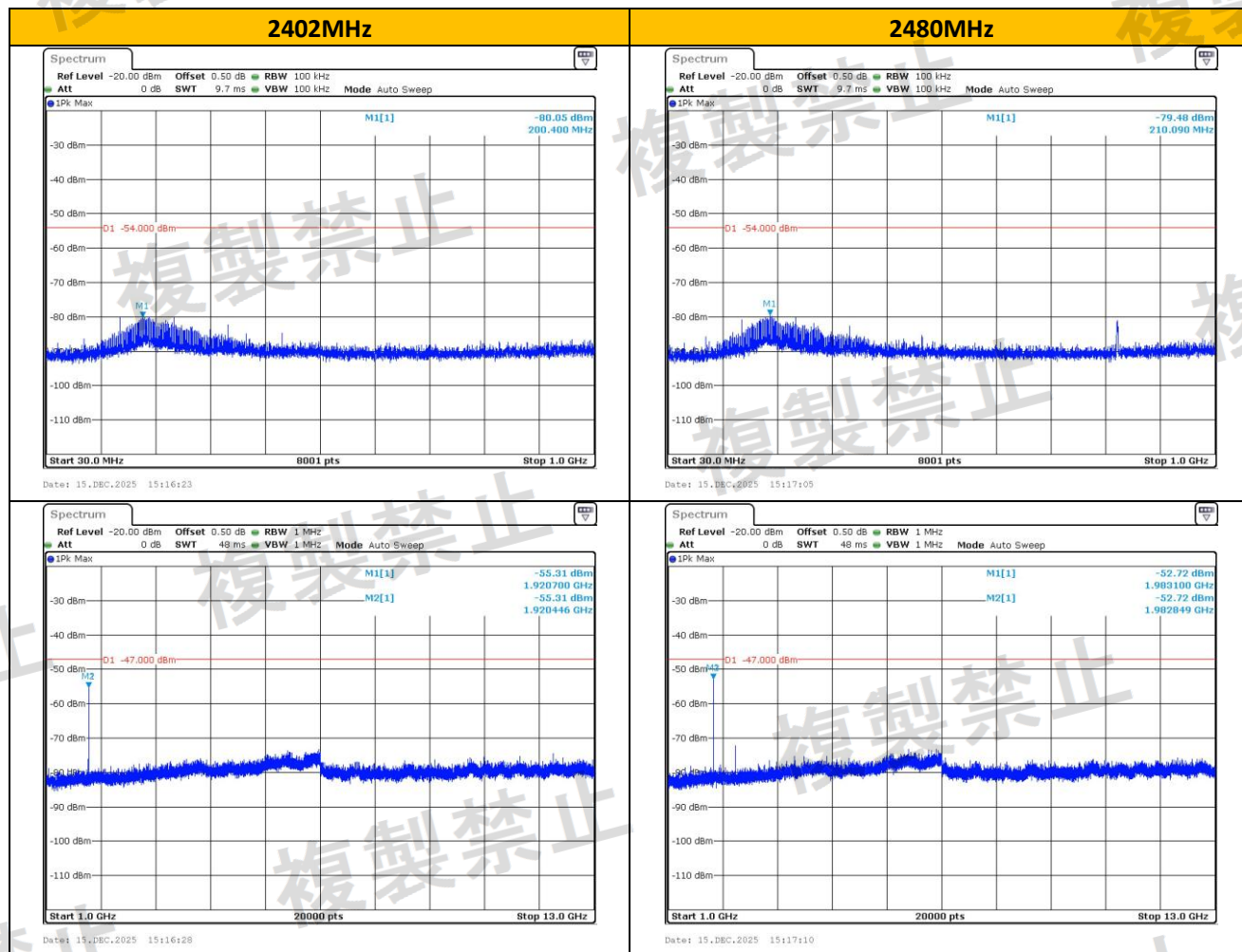
Detector mode Sample

Indication mode Max hold

Test result: PASS

Spurious Emissions of Rx

NTNV

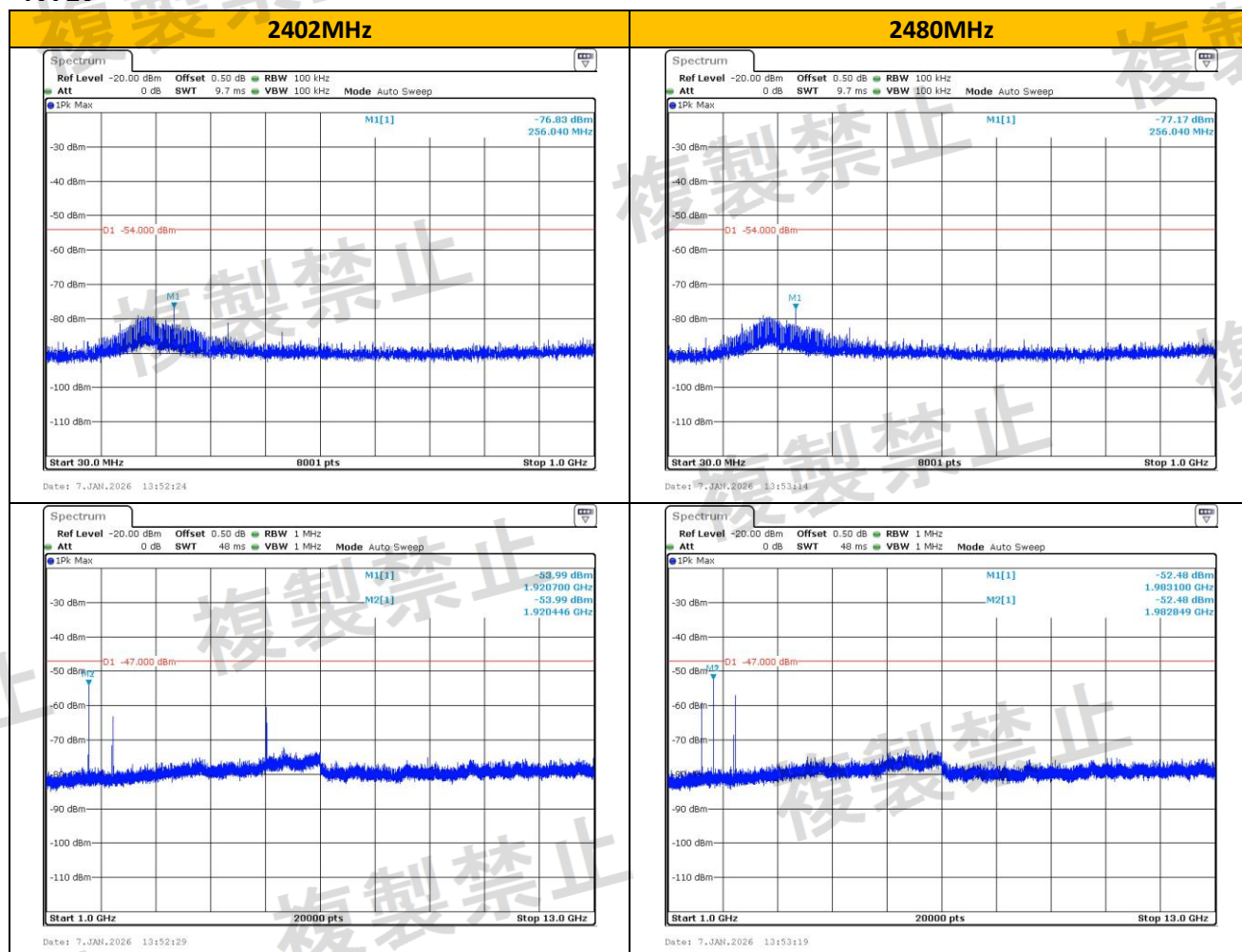


Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

Test band	2402MHz			2480MHz			Limit (nW)	Result
	Frequency (MHz)	dBm	nW	Frequency (MHz)	dBm	nW		
30MHz to 1GHz	200.40	-80.05	0.0099	210.09	-79.48	0.0113	4	Pass
1GHz to 13GHz	1920.45	-55.31	2.9444	1982.85	-52.72	5.3456	20	Pass

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

NTLV

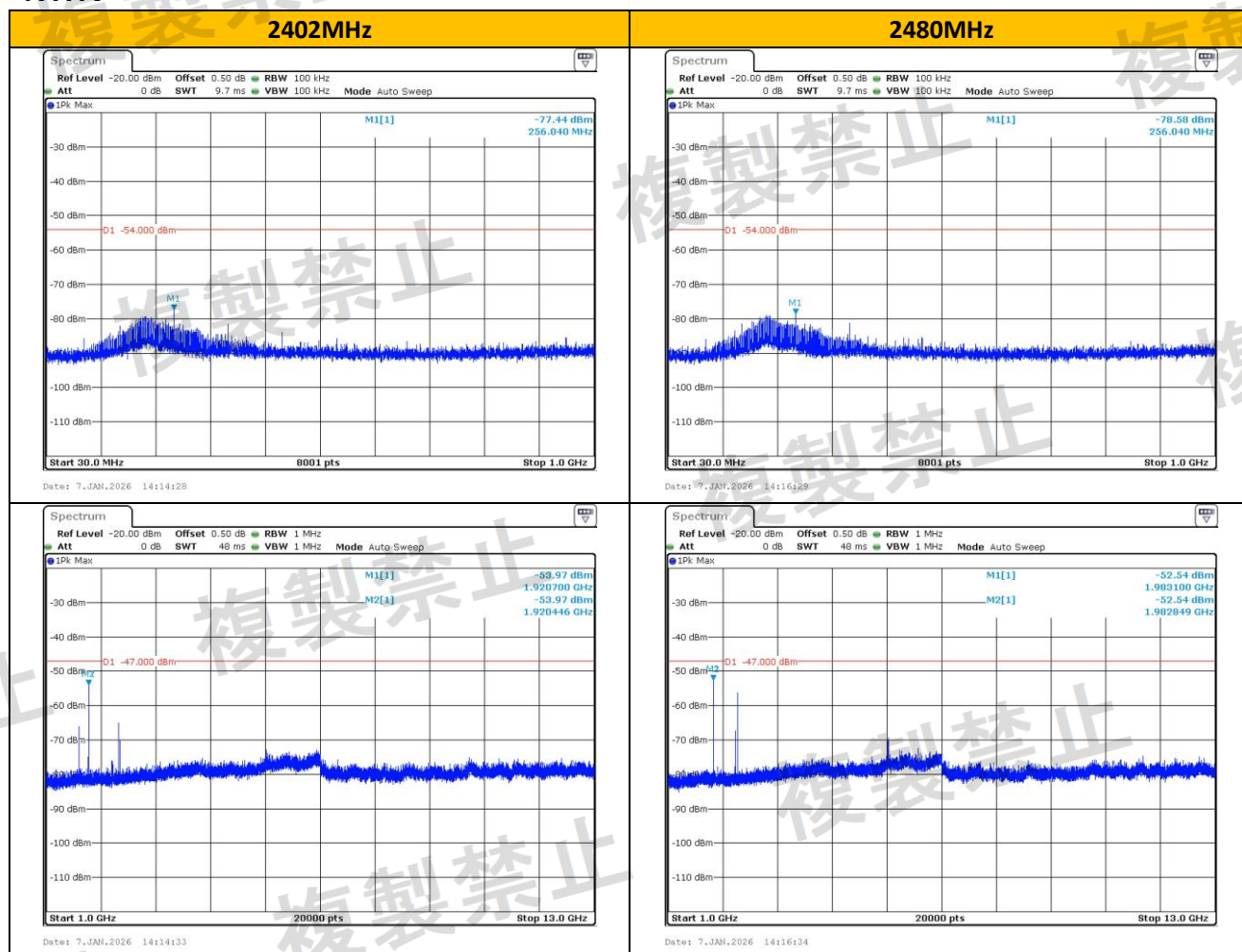


Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

Test band	2402MHz			2480MHz			Limit (nW)	Result
	Frequency (MHz)	dBm	nW	Frequency (MHz)	dBm	nW		
30MHz to 1GHz	256.04	-76.83	0.0207	256.04	-77.17	0.0192	4	Pass
1GHz to 13GHz	1920.45	-53.99	3.9902	1982.85	-52.48	5.6494	20	Pass

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

NTHV



Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

Test band	2402MHz			2480MHz			Limit (nW)	Result
	Frequency (MHz)	dBm	nW	Frequency (MHz)	dBm	nW		
30MHz to 1GHz	256.04	-77.44	0.0180	256.04	-78.58	0.0139	4	Pass
1GHz to 13GHz	1920.45	-53.97	4.0087	1982.85	-52.55	5.5590	20	Pass

Since SIG compliance can be verified on the SIG official website, only Lch and Hch are measured.

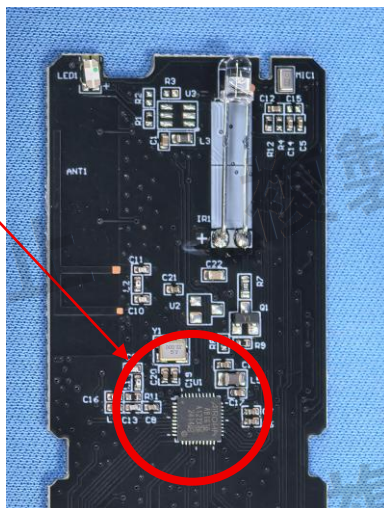
5.12 RF accessibility

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.

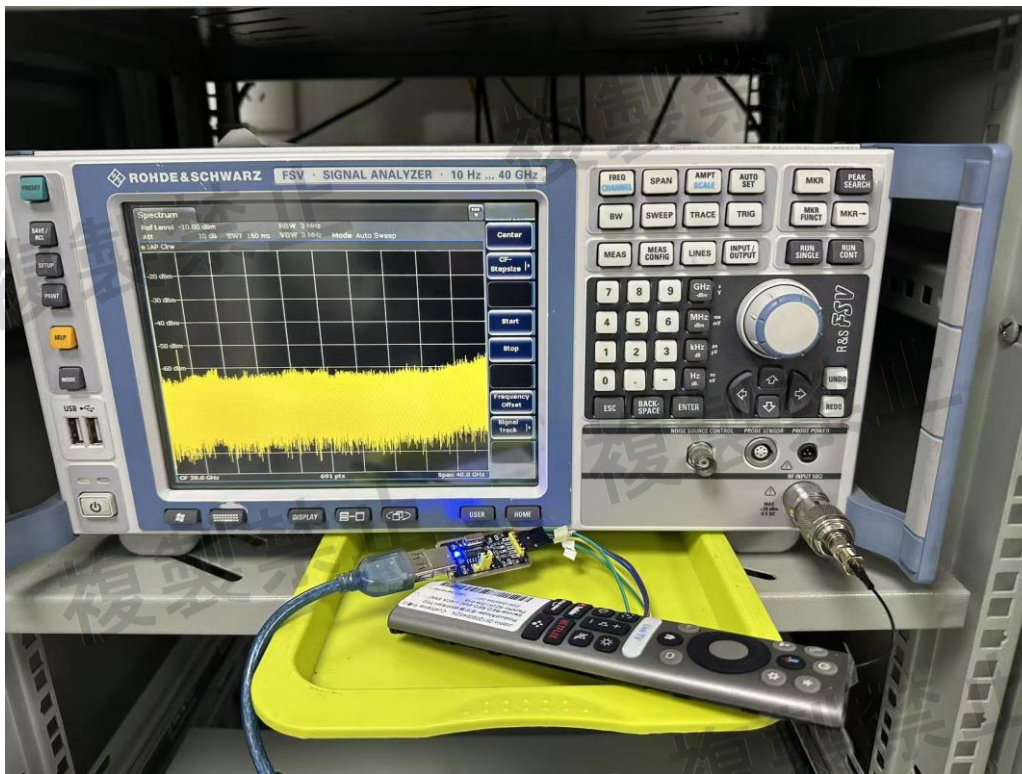
Bluetooth IC and related modulation components were welding on the PCB board and cannot be open or revise easily.



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 "Interpretation of equipment structure-That prevents its external case from opening easily in order to prevent unlawful modification", registered approval body conference document number 001(Rev.03), so that this product cannot be opened and modified easily.

6 Appendix A. EUT Test Setup and Constructional Details

6.1 Appendix A.1 EUT Test Setup

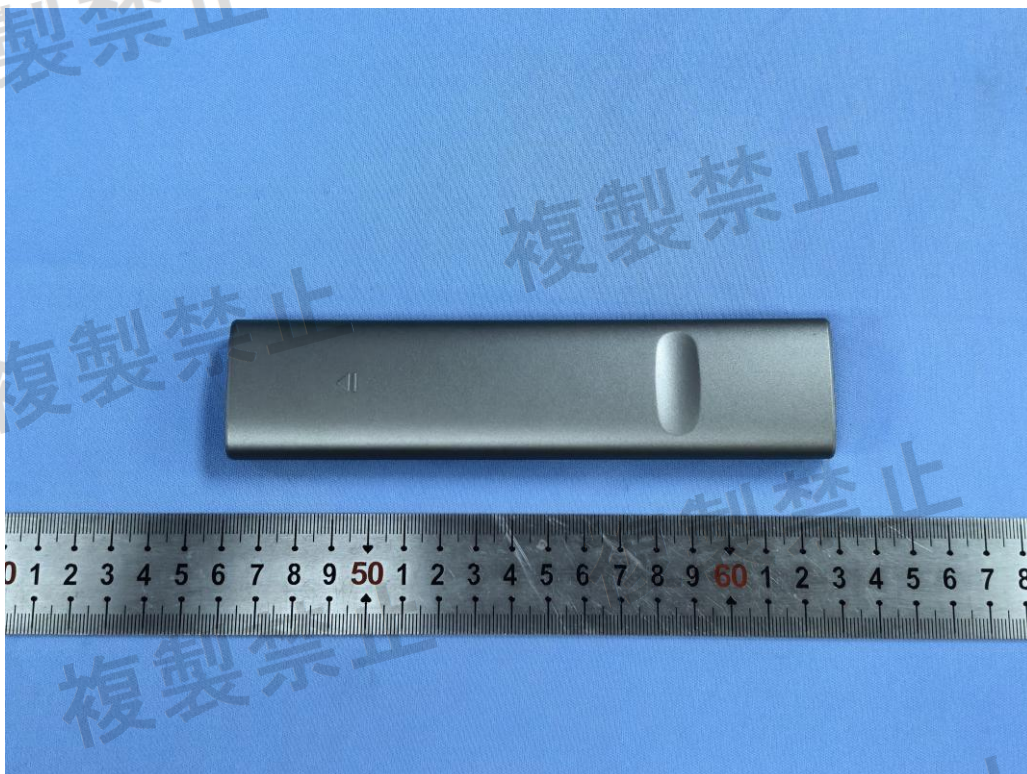


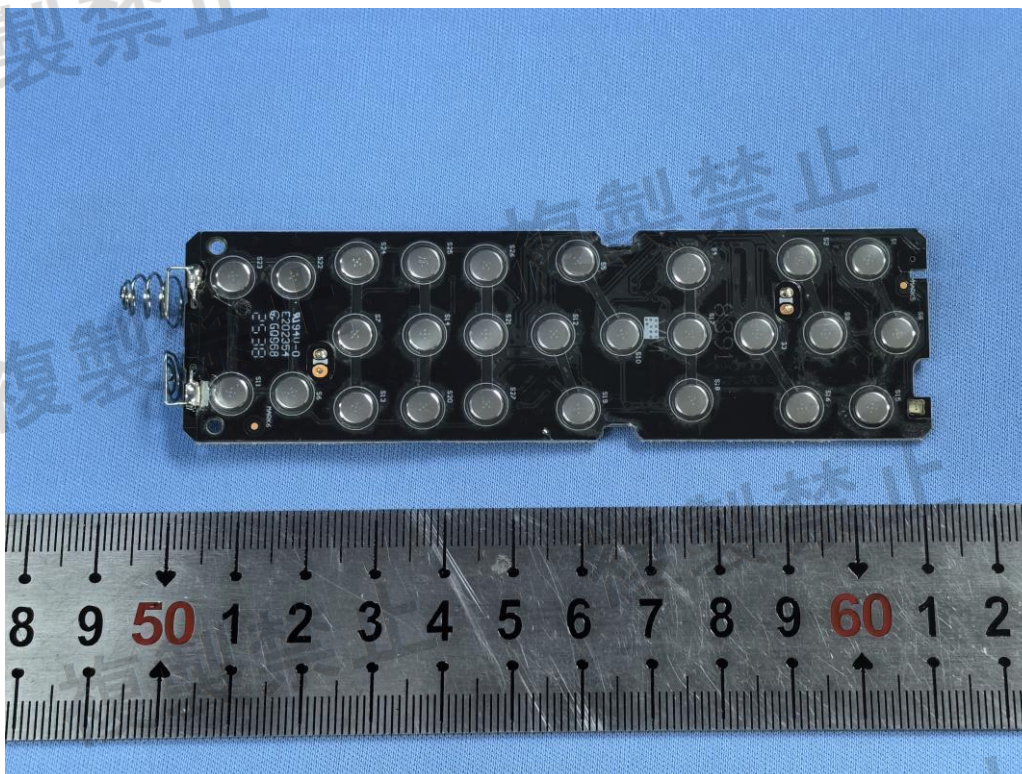
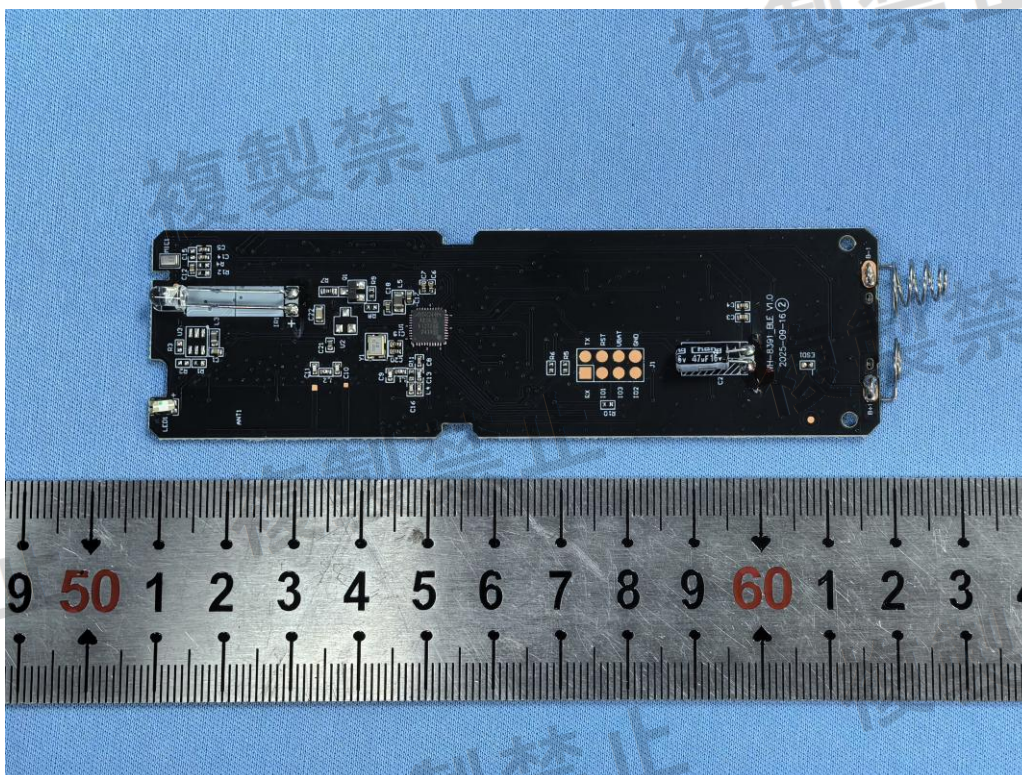
6.2 Appendix A.2 EUT Constructional Details

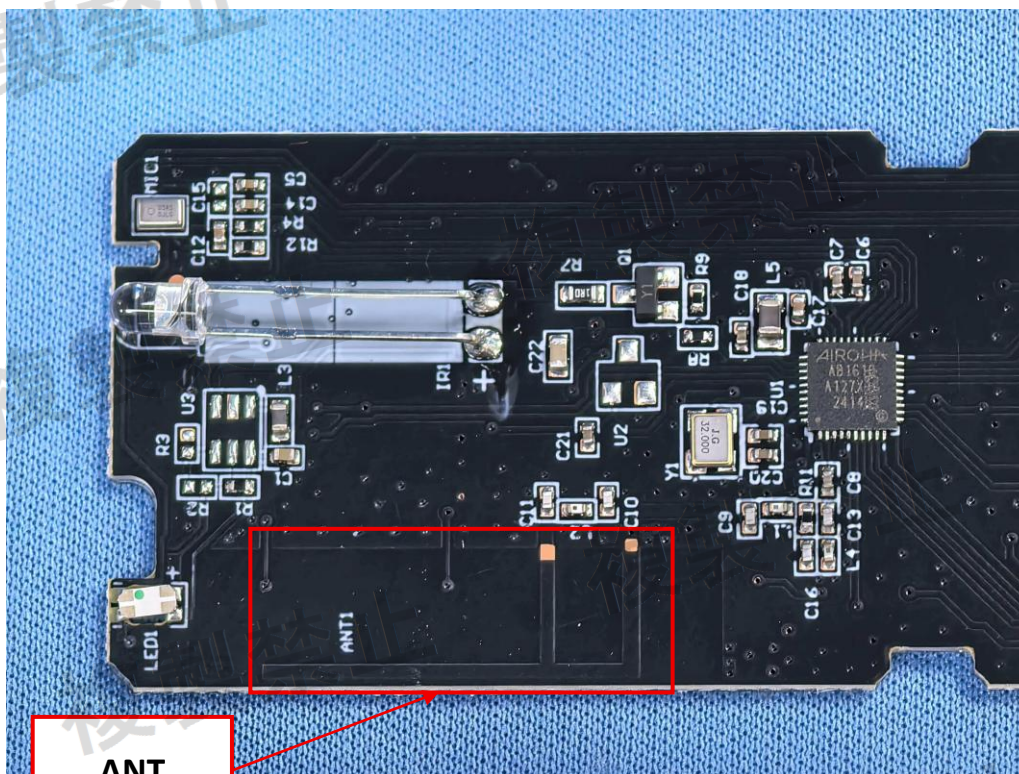












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***** End of Report*****