MIC public notice 88 TEST REPORT

On Behalf of

DOSHISHA CORPORATION

DOOR BELL

Model No.: DDPH-1-2, KDPH-1-2, ADPH-1-2

Prepared for	:	DOSHISHA CORPORATION
Address	:	5-5, HIGASHI-SHINSAIBASHI 1-CHOME, CHUO-KU, OSAKA 542-8525, JAPAN

Prepared By	:	Shenzhen PSI Testing Co., Ltd.
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TEST REPORT DECLARATION

Applicant	:	DOSHISHA CORPORATION
Address	:	5-5, HIGASHI-SHINSAIBASHI 1-CHOME, CHUO-KU, OSAKA 542-8525, JAPAN
Manufacturer	:	Shenzhen Canjing Electronics Co., Ltd
Address	:	Block 2, Zhipeng Ind. Park, Zhancheng Community, Fuhai Street, Baoan District, Shenzhen 518103, China
EUT name	:	DOOR BELL
		(A) Model No. : DDPH-1-2, KDPH-1-2, ADPH-1-2
		(B) Trademark : N/A

Measurement Standard Used:

MIC public notice 88:2004, annex 43 and annex 1, Article 2, Paragraph 1, Item 19

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the MIC public notice 88:2004, annex 43 and annex 1 limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.
After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature)……:	Felix Pang Test Engineer	Felix Pang
Approved by (name + signature)……..:	Simple Guan Project Manager	Simple Guan
Date of issue……..:	January 8, 2026	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 8, 2026	Initial released Issue	Felix Pang

複製禁止

1. General Information

1.1. Description of Device (EUT)

EUT	:	DOOR BELL
Model No.	:	DDPH-1-2, KDPH-1-2, ADPH-1-2
Diff	:	All models of software and circuit are the same, only the model name is different.
Power supply	:	DC 4.5V from 1.5V*3 AA battery
Radio Technology	:	2.4G WiFi
Operation frequency	:	2412MHz-2472MHz for IEEE 802.11 b
Number of channels	:	802.11b: 13CH
Modulation	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
Channel spacing		5MHz
Stated power	:	IEEE 802.11b: 1mW/MHz
Antenna Type	:	Internal antenna, Maximum Gain is 3.35dBi.
Software version	:	V1.0
Hardware version	:	V1.0
Note	:	Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

1.2. Accessories of Device (EUT)

Accessories 1 : N/A
Manufacturer : N/A
Model : N/A
Ratings : N/A

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1.	Notebook PC	Dell	Latitude 3490	N/A	N/A
2.	DC Power Supply	Xinouhua	ADC120V10A	202211251638	N/A
3.	Serial port board	N/A	USB to TTL	N/A	N/A

1.4. Test Lab Information

Shenzhen PSI Testing Co., Ltd.
1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

August 30, 2023 File on A2LA
Certificate Number: 6975.01

2. Summary of test

2.1. Test Standard Description

MIC Notice No.88 Appendix No. 43
Second-Generation Low-Power Data Communication System/Wireless LAN System

2.2. Summary of test result

CLAUSE	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	**Pass**
3.2 (3)	Tolerances for Antenna Power	**Pass**
3.2 (4)	Frequency Tolerance	**Pass**
3.2 (5)	Transmission Rate	**N/A**
3.2 (7)	Occupied Frequency Bandwidth	**Pass**
3.2 (8)	Spread Bandwidth	**Just for reported**
3.2 (9)	Process Gain	**N/A**
3.2 (10)	Number of Carriers	**N/A**
3.2 (11)	Dwell Time	**N/A**
3.2 (6)	Spurious Emissions	**Pass**
/	Interference prevention function	**Pass**
/	Carrier Sensing function 1	**N/A***
	Carrier Sensing function 2	**N/A****
/	Equivalent Isotropic Radiated Power	**Pass**
/	3dB Beam Bandwidth	**N/A*****
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	**Pass**

Note:
1. N/A is an abbreviation for Not Applicable.
2. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.
3. This device have more than 1 subcamier in 1MHz, compliance with the requirement.
*: Application to transmitting devices which EIRP is less than (2.14dBi + antenna power limit) and the shortage of EIRP is compensated by the antenna power. Not applicable to this product.
**: Application to transmitting devices with OFDM modulation and the occupied bandwidth greater than 26MHz.
***EIRP below 12.14dBm/MHz
4. Test Equipment calibration method:
a) Calibration conducted by the National institute of information and Communications Technology NICT or a designated calibration agency under Article 102-18 paragraph.
b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No.51 of1992).
c) Calibration conducted in foreign countries, which shall be eguivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph.
d) 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.
The all calibration corresponds to c) described above.

2.3. Block Diagram

2.4. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode:

Mode	Data rate (Mbps)	Channel	Frequency(MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH7	2442
	1	High: CH13	2472
Carrier Tx Mode	/	Low :CH1	2412
	/	Middle: CH7	2442
	/	High: CH13	2472
Note: 1 According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. 2 Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB			

2.5. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	98kPa

2.6. Test Voltage

Voltage mode	Input Voltage	Radio Unit Voltage
DC	DC 4.0V	DC 3.3V
	DC 4.5V	DC 3.3V
	DC 5.5V	DC 3.3V
Note: 1 The radio unit Voltage with the IC. 2 During external power source is varied by ± 10%, power supply to the RF circuit of EUT (excluding power source) is less than ±1%. So the test only rated voltage (Normal voltage DC 4.5V).		

2.7. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU
Bandwidth	968Hz
Antenna Power	0.41dB
Frequency Tolerance	±0.5ppm
Conducted spurious emission	1.26dB

3. Antenna Power

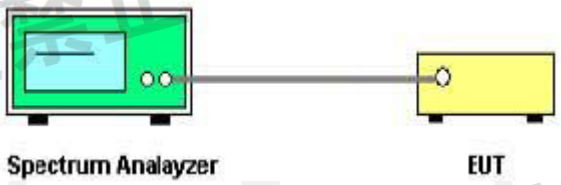
3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

3.2. Limt

Type	Limit
OFDM OBW<26MHz, DS	10mW/MHz
OFDM OBW 26-38MHz	5mW/MHz
Tolerance	+20%, No Low Limit

3.3. Block diagram of test setup



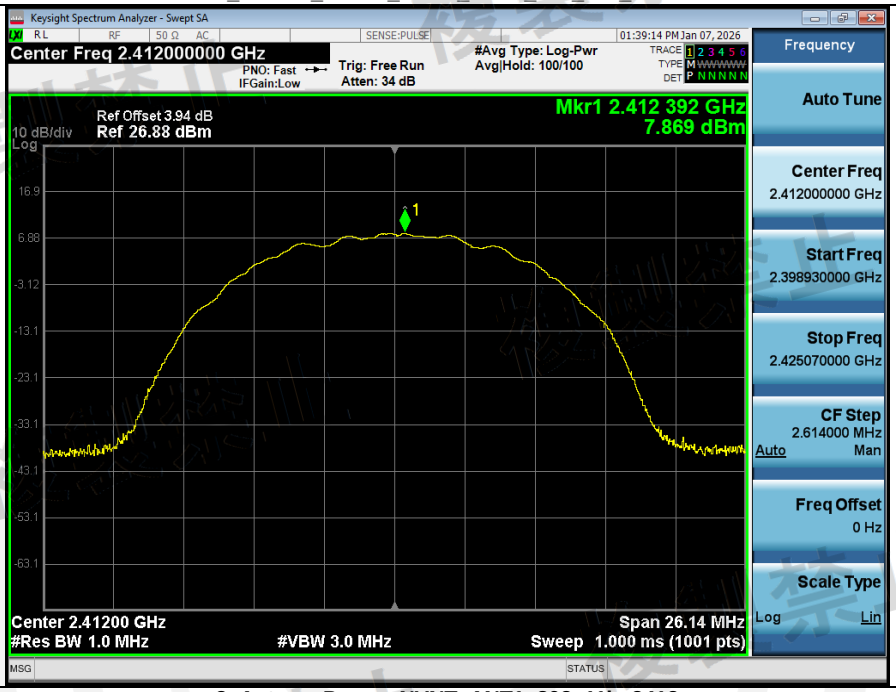
3.4. Test Precedure

Step 1:
Search Frequency of Peak Power
Test Frequency: test channel,
RBW=1MHz, VBW=3MHz, Span=2*nominal bandwidth, Sweep time=Auto, Detector mode =Positive peak
Step 2:
Measure of average burst power
Test Frequency: frequency of peak power
RBW=1MHz, VBW=3MHz, Span=0Hz, Sweep time=Auto, Detector mode=Peak
Antenna power= Peak burst power

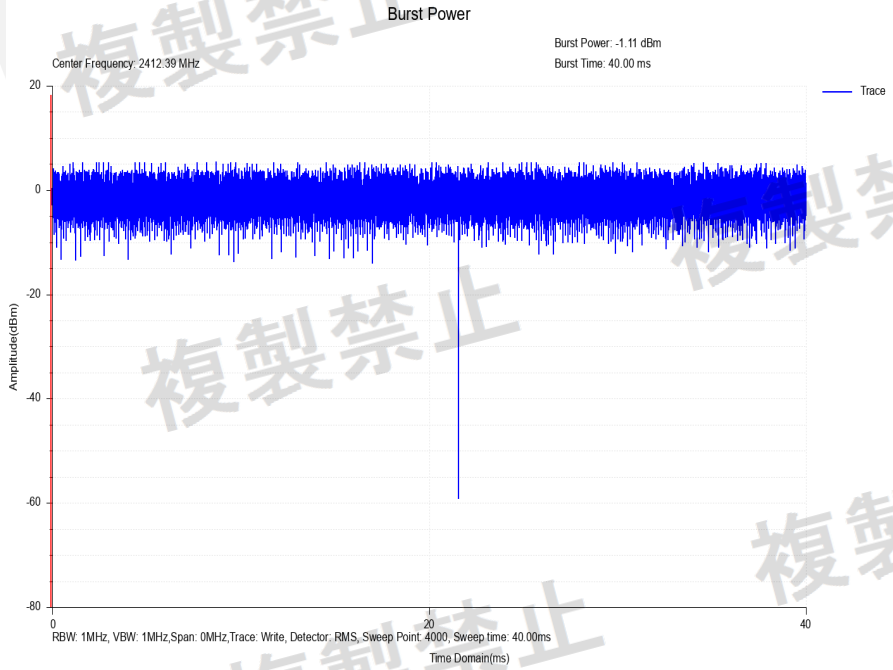
3.5. Test result

Mode	Frequency	Measured Power(dBm/MHz)	Antenna Power(mW/MHz)	Rated Power(mW/MHz)	Power Limit(mW/MHz)	Power Tolerance(%)	Tolerance Limit(%)
802.11b	2412.00	-1.11	0.77	1.00	10.00	-22.52	+20
802.11b	2442.00	-0.48	0.90	1.00	10.00	-10.41	+20
802.11b	2472.00	-1.54	0.70	1.00	10.00	-29.82	+20

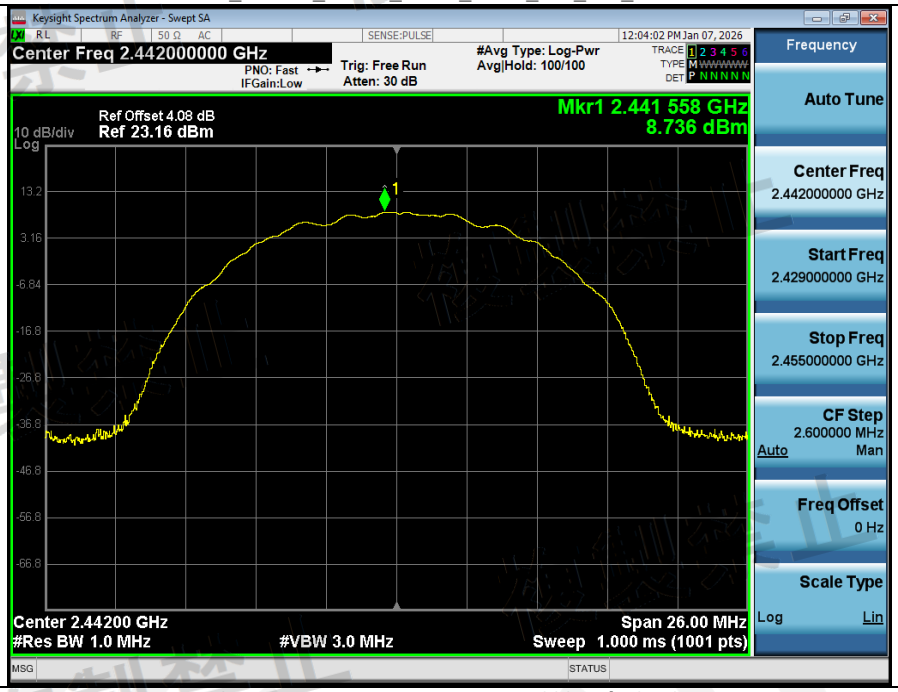
1_Antena_Power_NVNT_ANT1_802_11b_2412



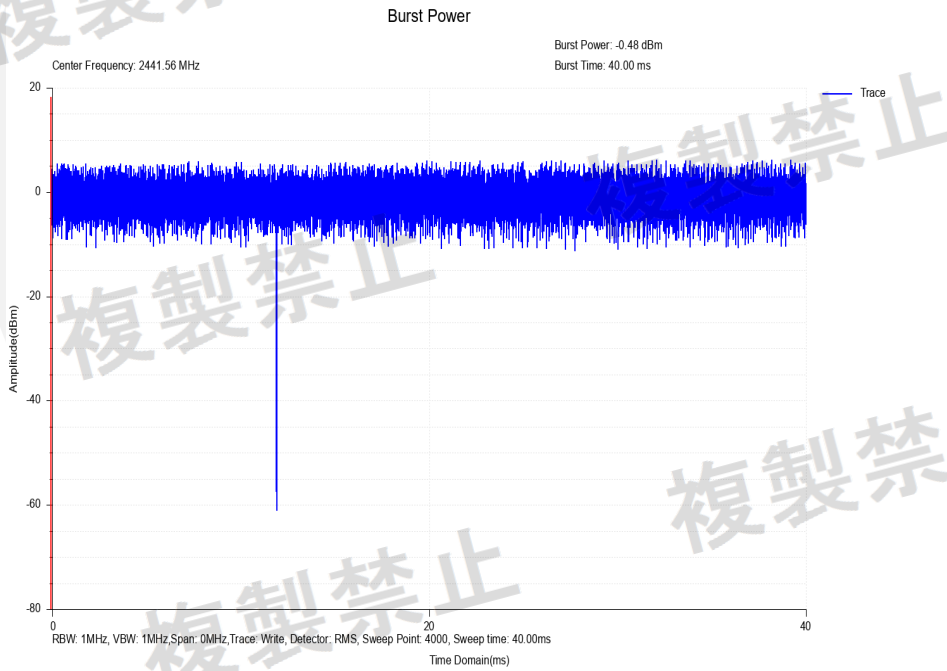
2_Antena_Power_NVNT_ANT1_802_11b_2412



1_Antena_Power_NVNT_ANT1_802_11b_2442



2_Antena_Power_NVNT_ANT1_802_11b_2442



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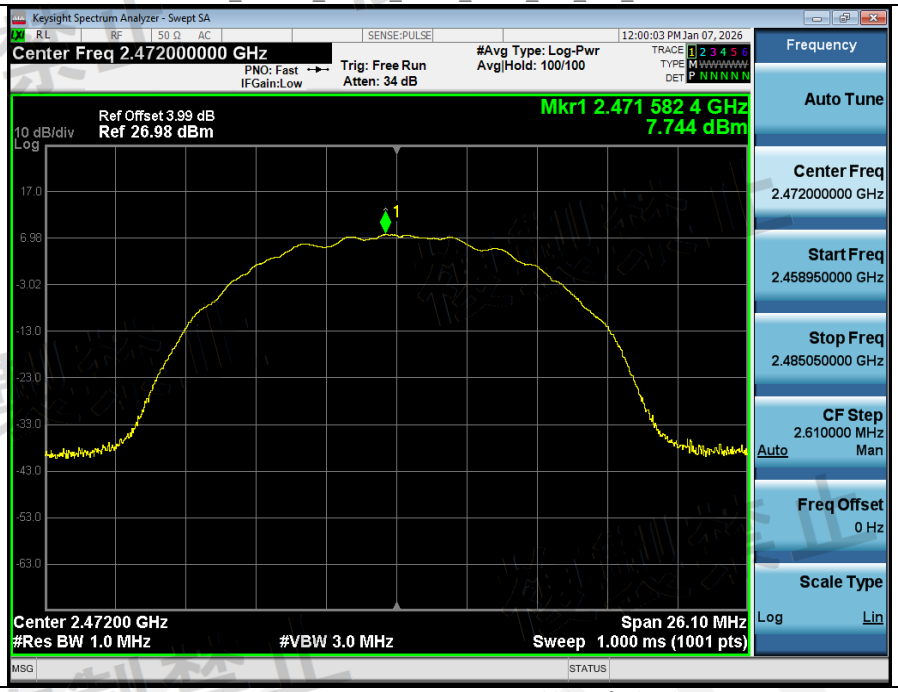
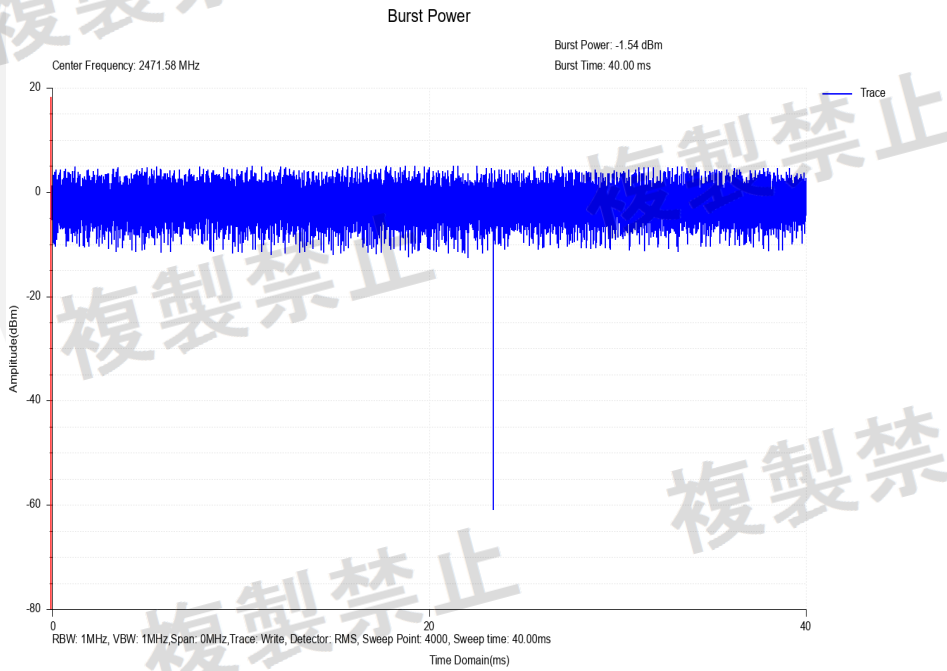


2_Antena_Power_NVNT_ANT1_802_11b_2472



Condition	Antenna	Mode	Frequency	Measured Power(dBm/MHz)	Antenna Gain(dBi)	EIRP(dBm/MHz)	EIRP Limit(dBm/MHz)	Result
NVNT	ANT1	802.11b	2412.00	-1.11	3.35	2.24	12.14	Pass
NVNT	ANT1	802.11b	2442.00	-0.48	3.35	2.87	12.14	Pass
NVNT	ANT1	802.11b	2472.00	-1.54	3.35	1.81	12.14	Pass

4. Frequency Tolerance

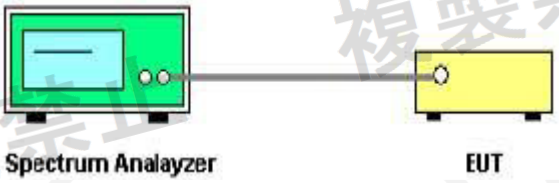
4.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

4.2. Limt

+/- 50x 10^{-6} or less(50ppm)

4.3. Block diagram of test setup



4.4. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 4.3
2. Set EUT work in carrier Tx mode as described in clause 2.4
3. 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.

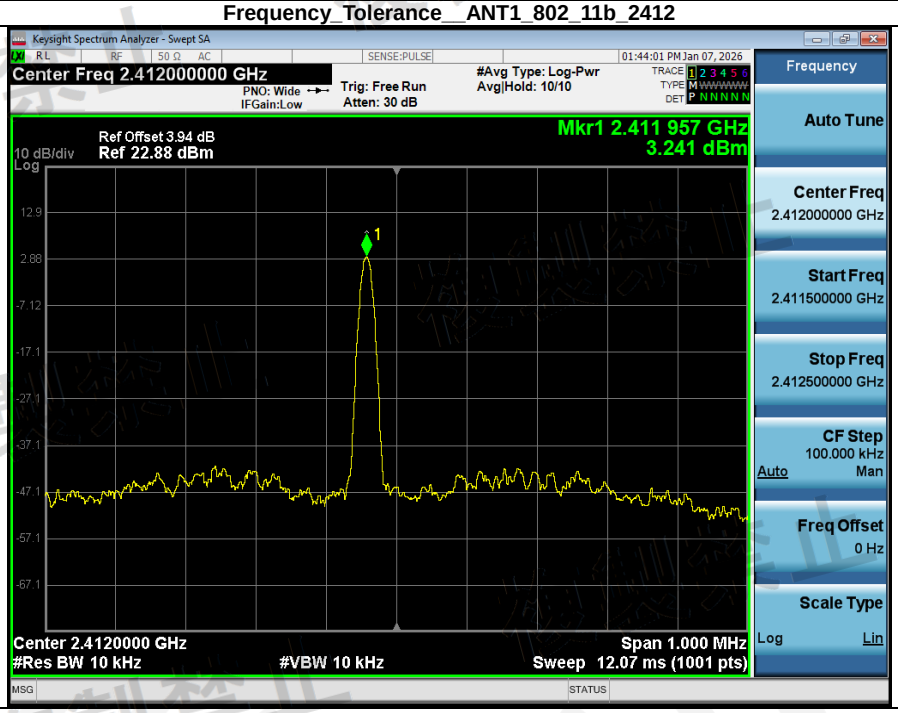
   Detector: Peak.

   Trace Mode: Max Hold.
4. When the trace is complete, find the peak value of the power envelope and record the frequency.

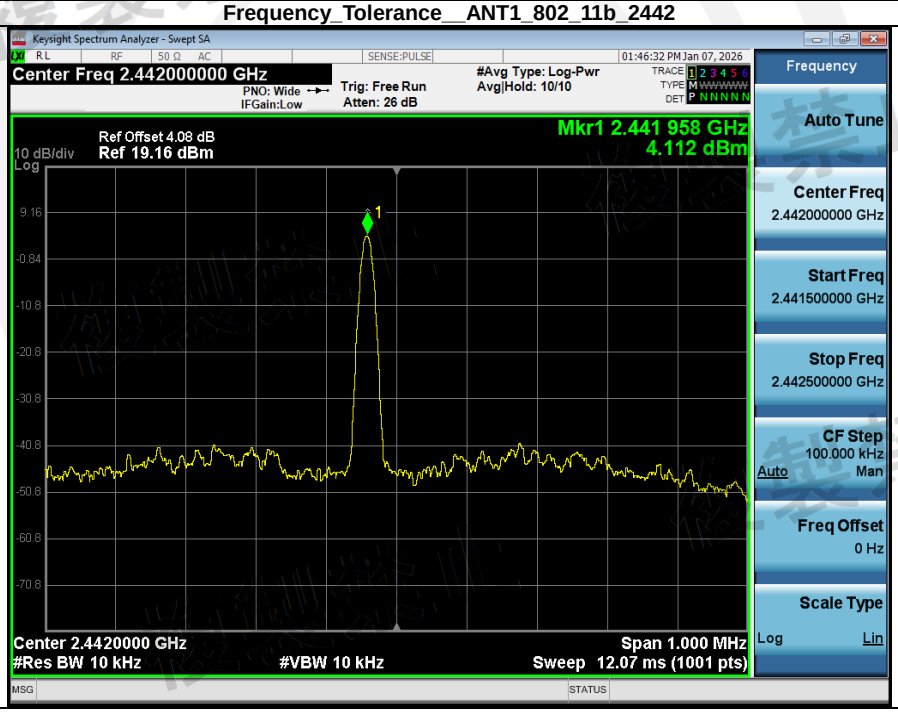
4.5. Test result

Condition	Antenna	Modulation	Frequency (MHz)	Test Frequency(MHz)	Frequency Tolerance(ppm)	Limit(ppm)	Result
NVNT	ANT1	un-modulation	2412.000000	2411.957	-17.828	±50	Pass
NVNT	ANT1	un-modulation	2442.000000	2441.958	-17.199	±50	Pass
NVNT	ANT1	un-modulation	2472.000000	2471.958	-16.990	±50	Pass

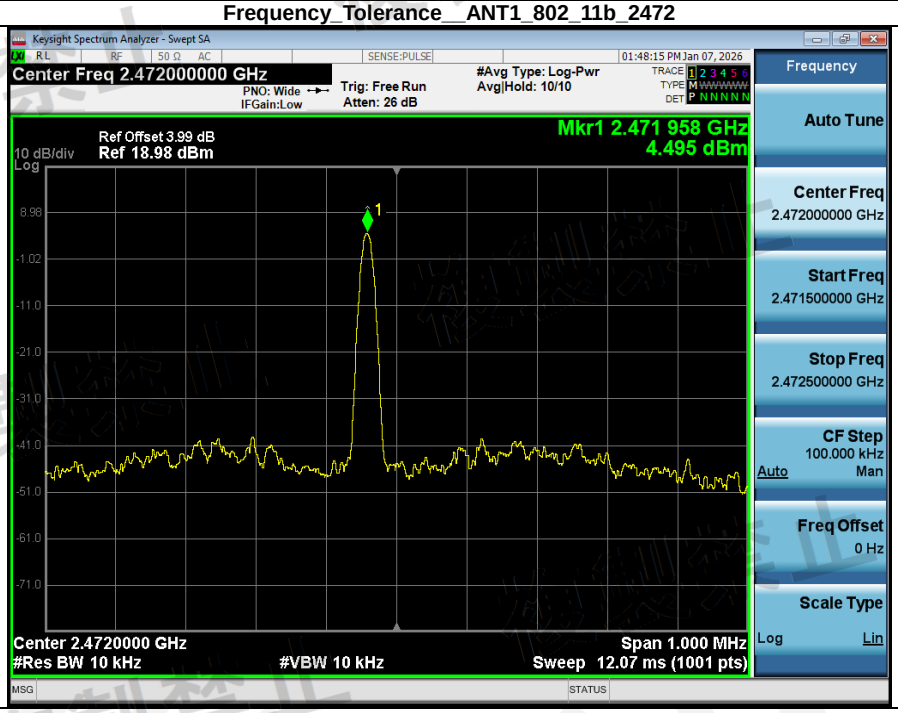
Frequency_Tolerance__ANT1_802_11b_2412



Frequency_Tolerance__ANT1_802_11b_2442



Frequency_Tolerance__ANT1_802_11b_2472



5. Occupied Frequency Bandwidth

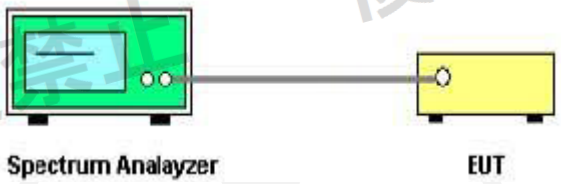
5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

5.2. Limt

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. Block diagram of test setup



5.4. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 5.3
2. Set EUT work in test mode as described in clause 2.4
3. 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: 300 KHz

   Video BW: 300 KHz

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

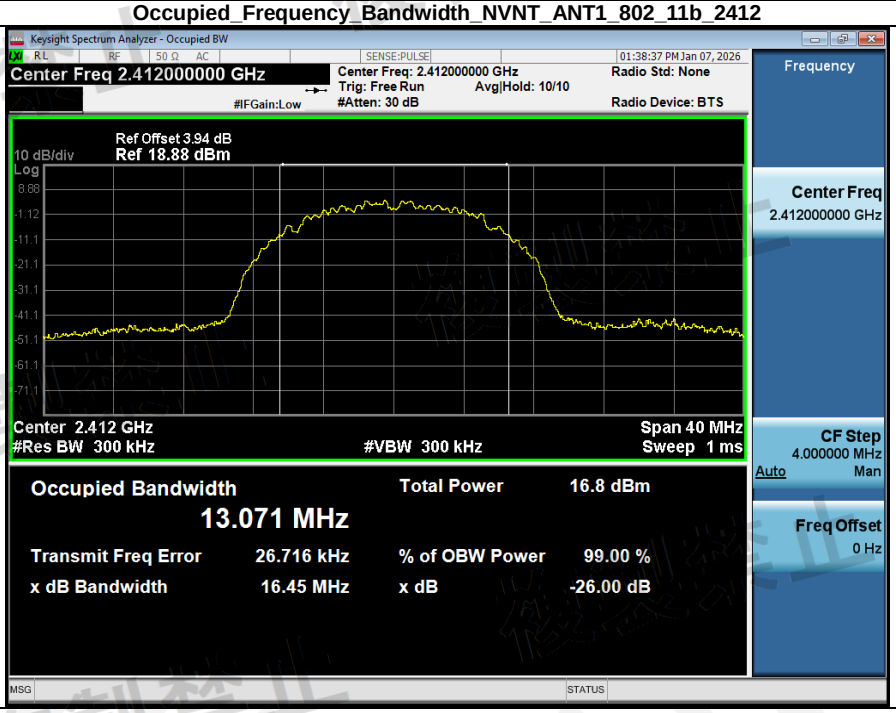
   Detector: Peak.

   Trace Mode: Max Hold.
4. When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

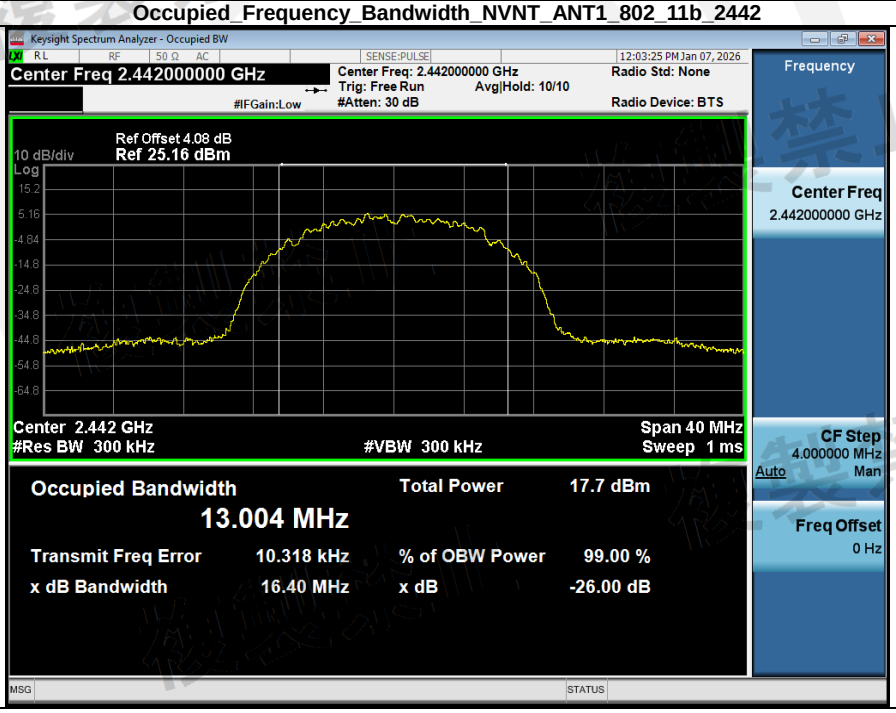
5.5. Test result

Condition	Antenna	Mode	Frequency(MHz)	Occupied Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11b	2412.00	13.07	<26	Pass
NVNT	ANT1	802.11b	2442.00	13.00	<26	Pass
NVNT	ANT1	802.11b	2472.00	13.05	<26	Pass

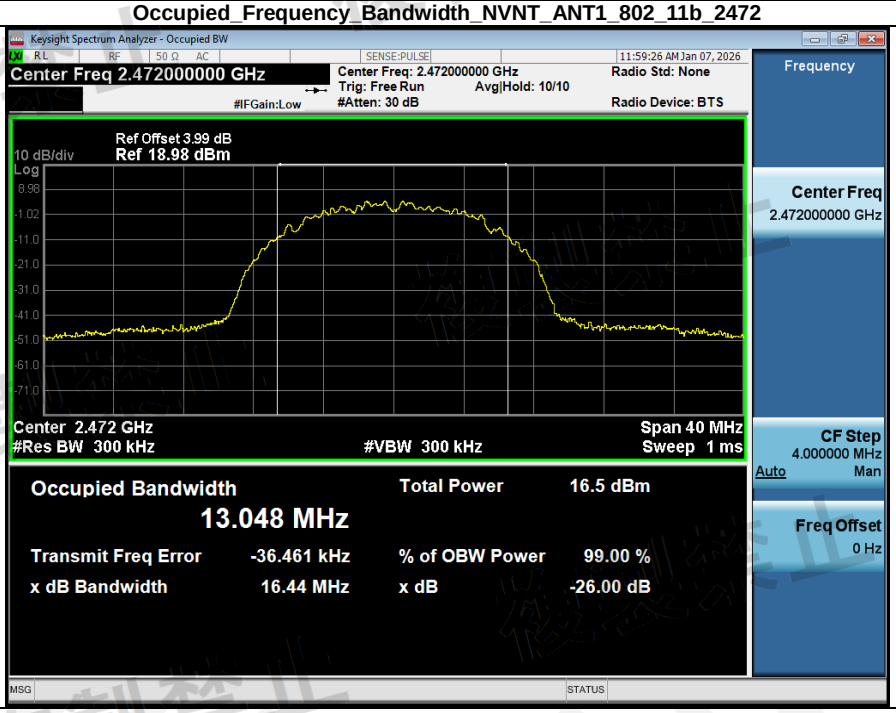
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11b_2412



Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11b_2442



Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11b_2472



6. Spread Bandwidth

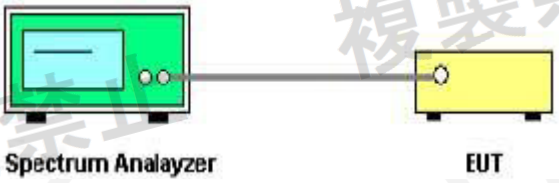
6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

6.2. Limt

N/A.

6.3. Block diagram of test setup



6.4. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 6.3

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

3. 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: 300 KHz.

Video BW: 300 KHz.

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

Detector: Peak.

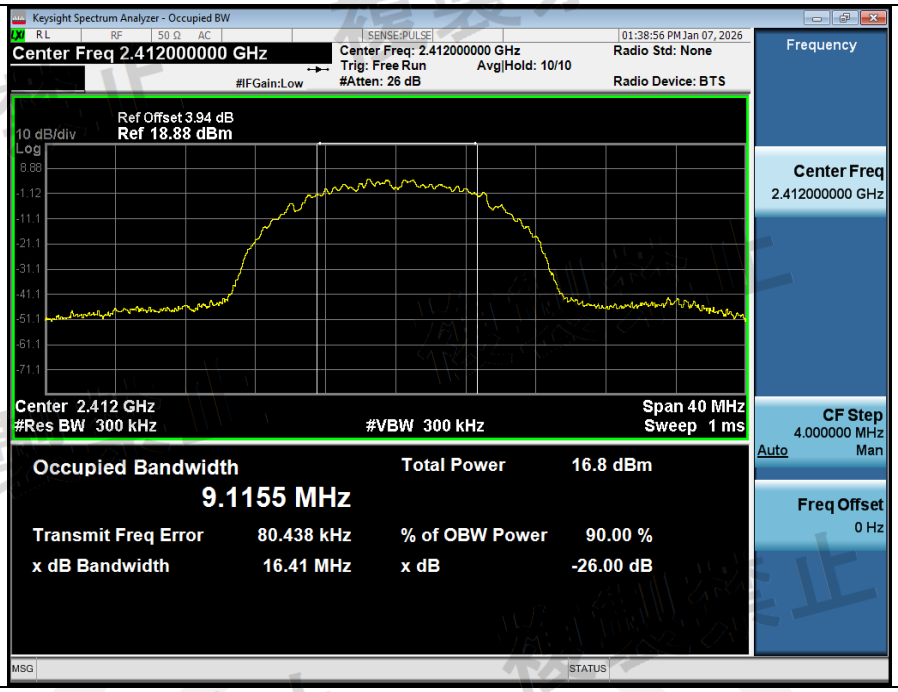
Trace Mode: Max Hold.

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

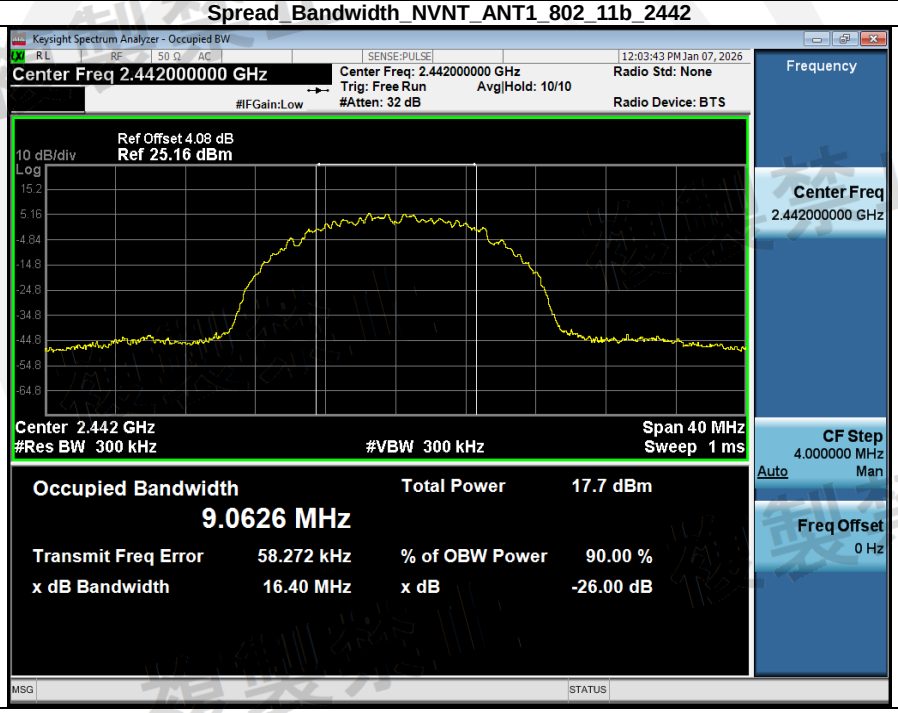
6.5. Test result

7. Condition	Antenna	Mode	Frequency(MHz)	Spread Bandwidth(MHz)
NVNT	ANT1	802.11b	2412.00	9.12
NVNT	ANT1	802.11b	2442.00	9.06
NVNT	ANT1	802.11b	2472.00	9.07

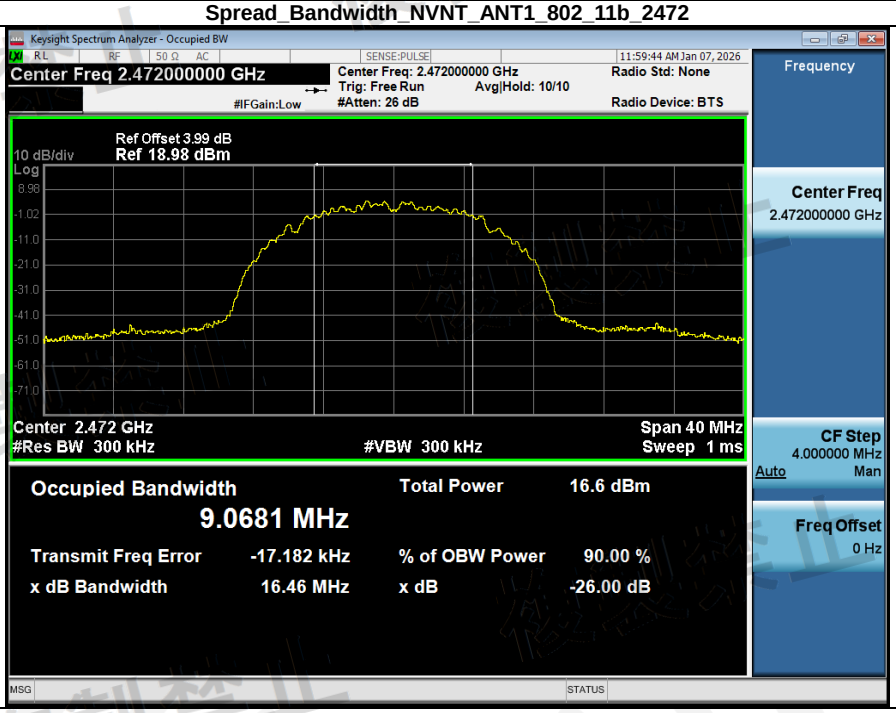
Spread_Bandwidth_NVNT_ANT1_802_11b_2412



Spread_Bandwidth_NVNT_ANT1_802_11b_2442



Spread_Bandwidth_NVNT_ANT1_802_11b_2472



8. Transmitter Spurious Emissions (Conducted)

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

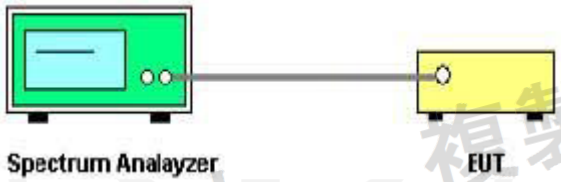
8.2. Limt

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. 2,387MHz ≤ f ≤ 2,400MHz and 2,483.5MHz < f ≤ 2,496.5MHz 25 μW or less

b. 2,387MHz > f and 2,496.5MHz < f 2.5 μW or less

8.3. Block diagram of test setup



8.4. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 7.3
2. Set EUT work in test mode as described in clause 2.4
3. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

   Resolution BW: 1MHz.

   Video BW: 1MHz.

   Detector: Peak.

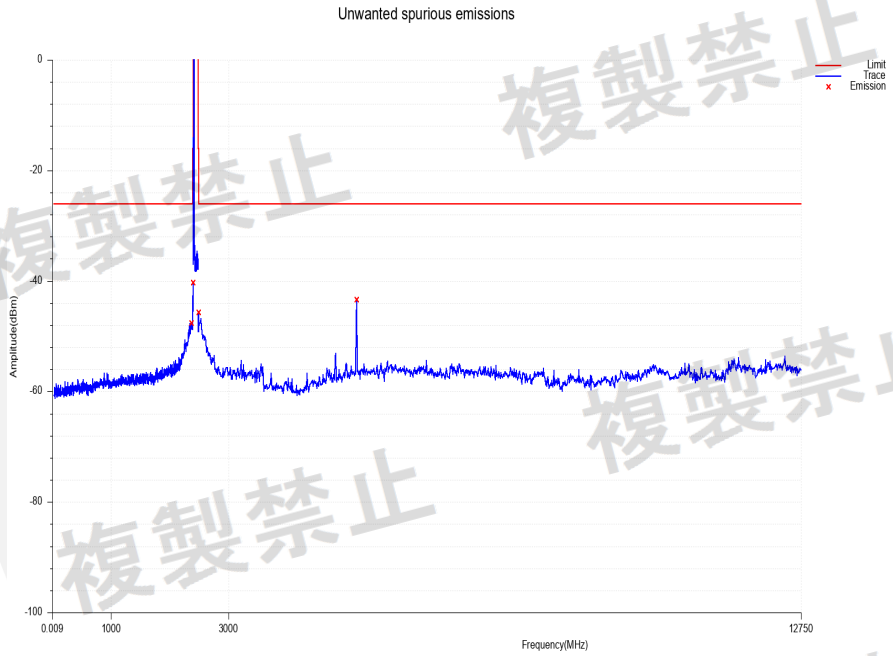
   Trace Mode: Max Hold.
4. All the emissions from 30MHz to 13GHz were measured and record.

8.5. Test result

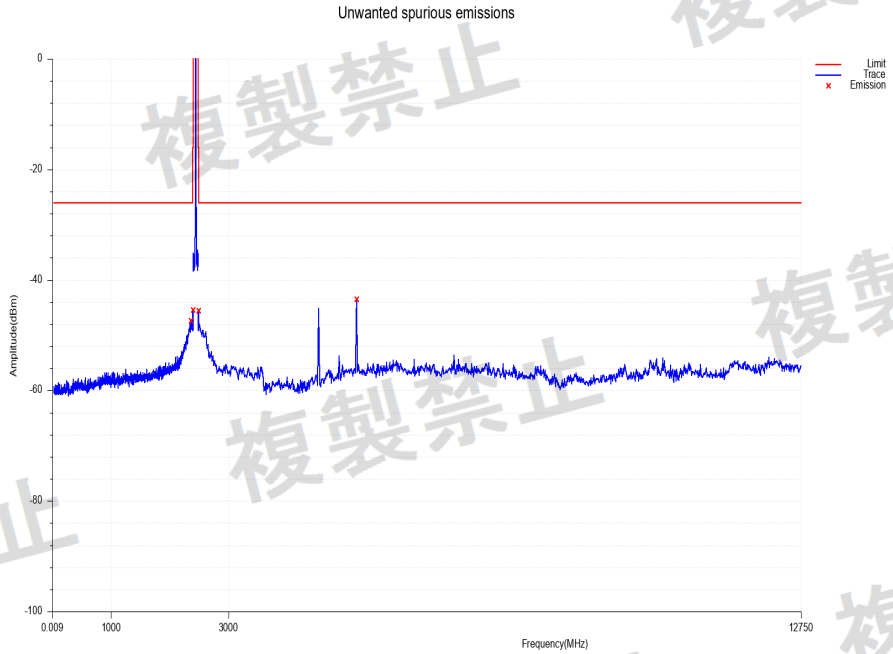
Pass. (See below original test data)

Mode	Frequency (MHz)	Frequency Area(MHz)	RBW(kHz)	Spur. Fre.(MHz)	Spur. Level(dBm/MHz)	Limit (dBm/MHz)	Spur. Level	LImit	Result
802.11b	2412.00	30.00~2387.00	1000	2368.14	-47.57	-26	0.0174μW/MHz	2.5μW/MHz	Pass
802.11b	2412.00	2387.00~2400.00	1000	2398.91	-40.28	-16	0.0937μW/MHz	25μW/MHz	Pass
802.11b	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
802.11b	2412.00	2483.50~2496.50	1000	2492.37	-45.74	-16	0.0266μW/MHz	25μW/MHz	Pass
802.11b	2412.00	2496.50~13000.00	1000	5185.40	-43.37	-26	0.0460μW/MHz	2.5μW/MHz	Pass
802.11b	2442.00	30.00~2387.00	1000	2358.72	-47.33	-26	0.0184μW/MHz	2.5μW/MHz	Pass
802.11b	2442.00	2387.00~2400.00	1000	2399.83	-45.40	-16	0.0288μW/MHz	25μW/MHz	Pass
802.11b	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
802.11b	2442.00	2483.50~2496.50	1000	2494.34	-45.55	-16	0.0278μW/MHz	25μW/MHz	Pass
802.11b	2442.00	2496.50~13000.00	1000	5185.40	-43.52	-26	0.0444μW/MHz	2.5μW/MHz	Pass
802.11b	2472.00	30.00~2387.00	1000	1955.67	-45.35	-26	0.0291μW/MHz	2.5μW/MHz	Pass
802.11b	2472.00	2387.00~2400.00	1000	2399.74	-45.62	-16	0.0273μW/MHz	25μW/MHz	Pass
802.11b	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
802.11b	2472.00	2483.50~2496.50	1000	2483.92	-39.80	-16	0.1046μW/MHz	25μW/MHz	Pass
802.11b	2472.00	2496.50~13000.00	1000	2496.50	-46.80	-26	0.0208μW/MHz	2.5μW/MHz	Pass

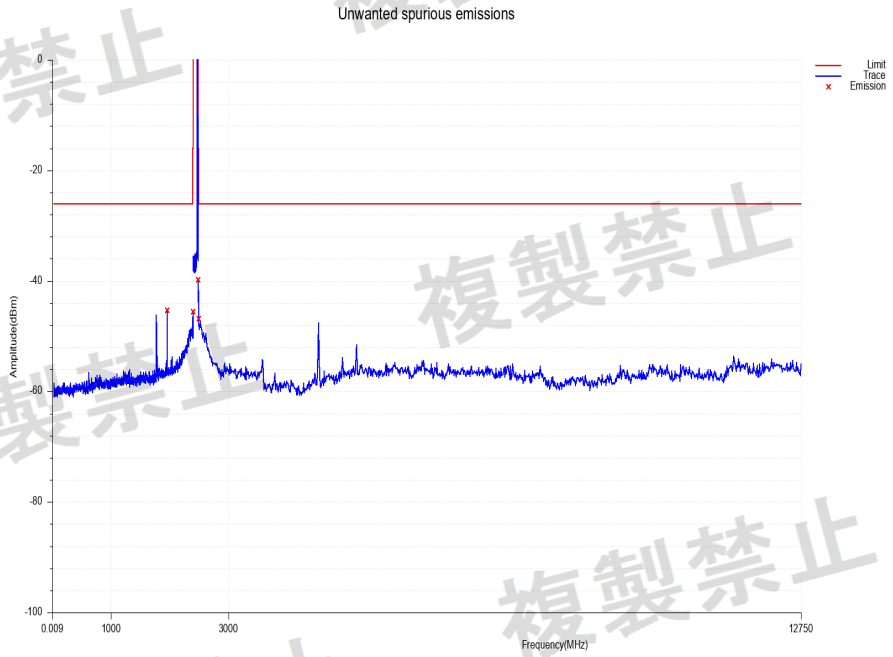
Spurious_Emissions_NVNT_ANT1_802_11b_2412



Spurious_Emissions_NVNT_ANT1_802_11b_2442



Spurious_Emissions_NVNT_ANT1_802_11b_2472

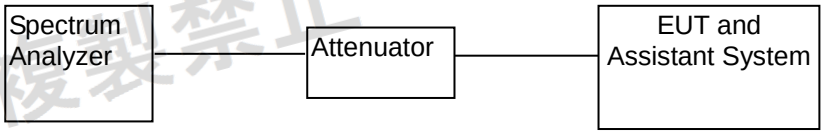


9. Process gain

9.1. Limt

Process gain (value obtained by dividing the spread bandwidth by a frequency equal to the transmission rate of the modulation signal; this also applies hereafter) in the spread spectrum system shall be 5 or more.

9.2. Block diagram of test setup



9.3. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 8.3
2. Set EUT work in test mode as described in clause 2.4

9.4. Test result

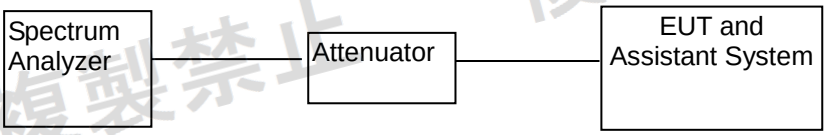
Temperature:	26℃	Humidity:	54%RH
Test result:	Conform		

10. Number of carriers

10.1. Limt

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

10.2. Block diagram of test setup



10.3. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 8.3
2. Set EUT work in test mode as described in clause 2.4

10.4. Test result

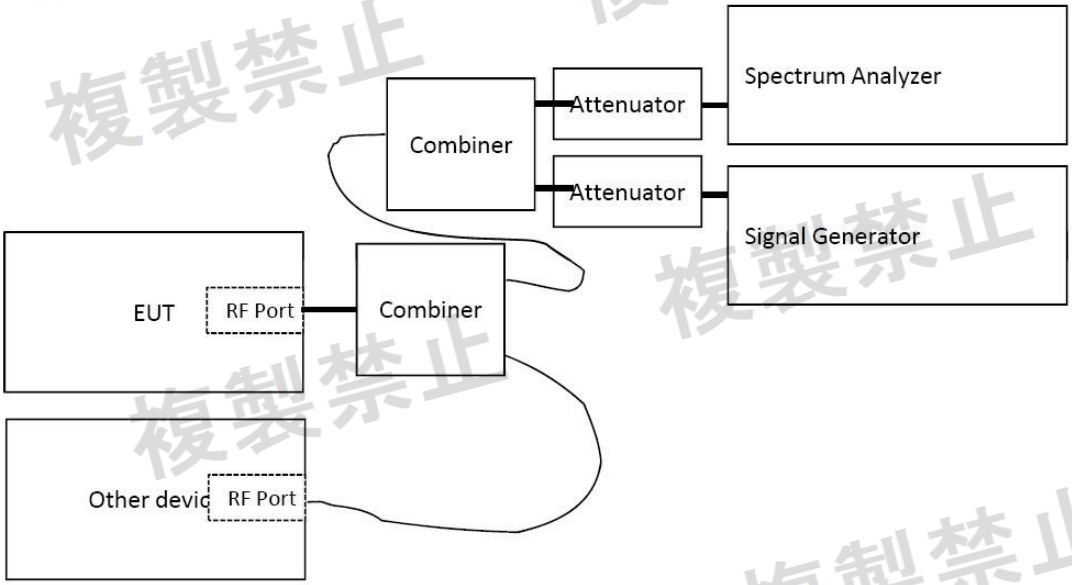
Temperature:	26℃	Humidity:	54%RH
Test result:	Conform		

11. Carrier sensing function

11.1. Limit

The device shall not transmit radio wave when receiving 100Mw/m

11.2. Block diagram of test setup



11.3. Test Precedure

The device is configured to communicate with another device as shown below. Once the communications link is established the signal generator is configured to produce a CW signal at the center frequency of the operating channel. The level of the signal generator is increased from a level approximately 30dB lower then the required carrier sense detection threshold (calculated based on the **lowest** antenna gain to be used with the device) until the device stops transmitting. This level is recorded as the carrier sense detection threshold.

11.4. Test result

Not Applicable

12. Interference prevention function

12.1. Limt

Item	Limits
Identification	≥48 bits

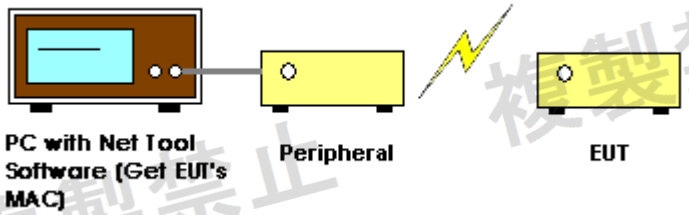
12.2. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	2025.12.18	1 Year
2.	Notebook PC	Dell	Latitude 3490	N/A	N/A	N/A
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

12.3. Measuring ID Code Software

Item	Limits
MAC IP List	MAC Scan

12.4. Block diagram of test setup



12.5. Test Precedure

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

12.6. Test result

Temperature:	26℃	Humidity:	54%RH
Mac Code:	93:0b:47:b3:f4:fe	Test result:	Conform

13. Secondary Radiated Emissions

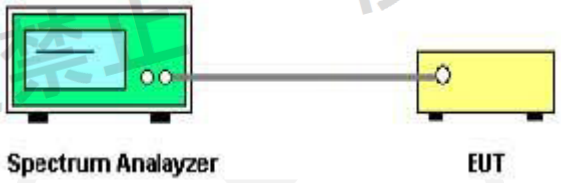
13.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	1 Year
Note: The test equipment is calibrated by China Certification & Inspection (Group) Co., Ltd.						

13.2. Limt

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, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

13.3. Block diagram of test setup



13.4. Test Precedure

1. Configure EUT and assistant system according clause 2.3 and 8.3
2. Set EUT work in test mode as described in clause 2.4
3. 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.

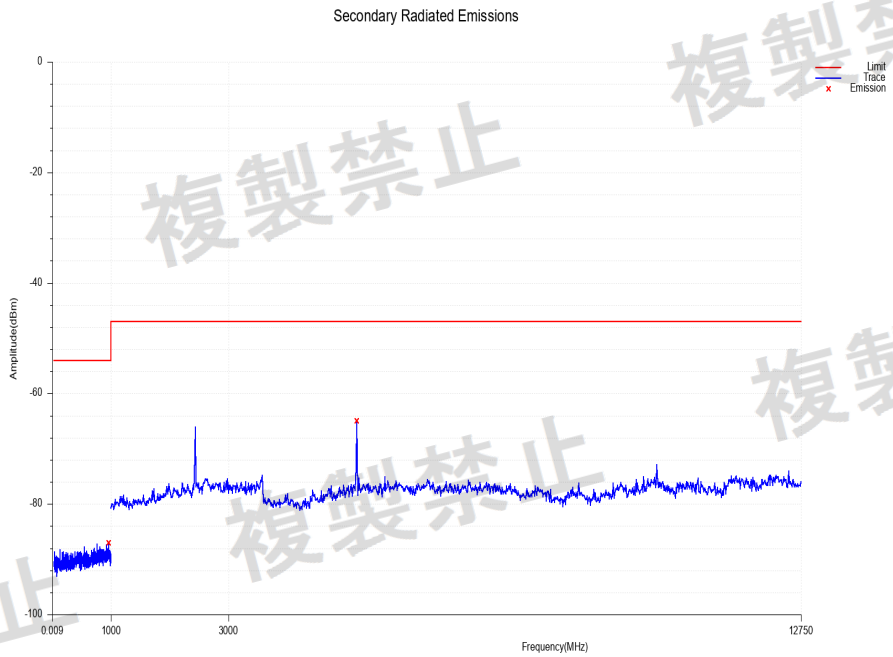
   Trace Mode: Max Hold.
4. All the emissions from 30MHz to 13GHz were measured and record.

13.5. Test result

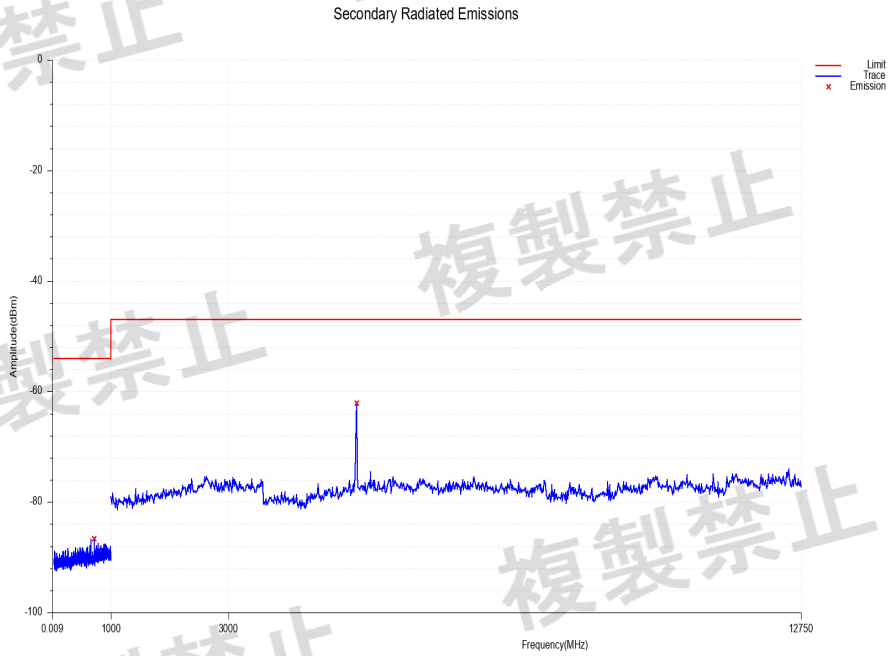
Mode	Channel	Range(MHz)	RBW(kHz)	Spur. Freq.(MHz)	Spur. Lev.(dBm)	Spur. Lev	Limit	Over 1/10 Limit	Read Lev.(dBm)	Read Lev.	Result
802.11b	LCH	30.0~1000.0	100	885.54	-87.03	0.0019nW	4nW	NO	/	/	Pass
802.11b	LCH	1000.0~12750.0	1000	5183.00	-67.03	0.1981nW	20nW	NO	/	/	Pass
802.11b	MCH	30.0~1000.0	100	963.14	-87.04	0.0019nW	4nW	NO	/	/	Pass
802.11b	MCH	1000.0~12750.0	1000	5183.00	-64.91	0.3226nW	20nW	NO	/	/	Pass
802.11b	HCH	30.0~1000.0	100	714.82	-86.69	0.0021nW	4nW	NO	/	/	Pass
802.11b	HCH	1000.0~12750.0	1000	5183.00	-62.09	0.6184nW	20nW	NO	/	/	Pass

Secondary_emission_of_radio_wave_NVNT_ANT1_802_11b_LCH

Secondary_emission_of_radio_wave_NVNT_ANT1_802_11b_MCH



Secondary_emission_of_radio_wave_NVNT_ANT1_802_11b_HCH



14. Test setup photo

Reference to the **appendix I Test Setup Photo** for details.

15. EUT Photos

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

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