

TEST REPORT

Report No.: 8432EU011826W2

Applicant: Memoket Inc.

Address: 5830 E 2nd St, Ste 7000 #31080, Casper, WYOMING
82609, US

Product Name: Memoket Gem

Model No.: M01

Trademark: Memoket

Test Standard(s): MIC Notice No.88 Appendix No.43
Ordinance of MPT No.37, 1981:
Article 2 paragraph 1 item (19)

Test Result: Pass

Date of Receipt: Jun. 18, 2026

Test Date: Jun. 19, 2026 - Jul. 07, 2026

Date of Issue: Aug. 04, 2026

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



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Revision Record

Report Version	Issued Date	Description	Status
V0	Aug. 04, 2026	Original	Valid

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2 General Information

2.1 Applicant Information

Applicant	Memoket Inc.
Address	5830 E 2nd St, Ste 7000 #31080, Casper, WYOMING 82609, US

2.2 Manufacturer Information

Manufacturer	Suisheng Technology (Shenzhen) Co., Ltd.
Address	Unit 914H, 9th Floor, 31 Bagua Rd, Futian District, Shenzhen, Guangdong Province, China

2.3 Factory Information

Factory 1	Shenzhen Dehuida Intelligent Technology Co., Ltd
Address 1	No.121, Qiankeng Road, Qiankeng Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China
Factory 2	Ganzhou Dehuida Technology Co., Ltd
Address 2	Dehuida Science and Technology Park, Huoyanshan Road, Jiulong Industrial Park, Anyuan County, Ganzhou City, Jiangxi Province, P.R.China

2.4 General Description of E.U.T.

Product Name	Memoket Gem
Model No. Under Test	M01
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Input: 5VDC, 0.5A Battery Capacity: 3.87VDC, 200mAh, 0.774Wh
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	VerC
Software Version	1.32_VDD1.0V_260601
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Bluetooth Low Energy (BLE) WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WiFi 2.4G
Operation Mode	☒ b ☒ g ☒ n(HT20) ☒ n(HT40)
	☐ ac(VHT20) ☐ ac(VHT40) ☐ ax(HEW20) ☐ ax(HEW40)
Operating Frequency	802.11b/g/n(HT20): 2412MHz to 2472MHz 802.11n(HT40): 2422MHz to 2462MHz
Number of Channels	802.11b/g/n(HT20): 13 Channels 802.11n(HT40): 9 Channels
Modulation Technology	DSSS, OFDM
Modulation Type	☒ 802.11b: DSSS (CCK, DQPSK, DBPSK) ☒ 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☒ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☐ 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) ☐ 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	FPC Antenna
Antenna Gain(Peak)	-3.04 dBi
Antenna Impedance	50Ω
Rated output Power	802.11b: 0.600 mW/MHz 802.11g: 0.600 mW/MHz 802.11n(HT20): 0.400 mW/MHz 802.11n(HT40): 0.200 mW/MHz
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

All channels were listed on the following table:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	MIC Notice No.88 Appendix No.43 Ordinance of MPT No.37, 1981: Article 2 paragraph 1 item (19)	Low power data communications system in the 2.4GHz band

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	Test Mode	Channel		Data Rate (Mbps)	Verdict	Remark
1	Frequency Tolerance	Modulation	1/13	3/11	/	Pass	--
2	Occupied Bandwidth	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
3	Antenna Power	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
4	EIRP Antenna Power	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	N/A	Note ²
5	Spurious Emission Intensity	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
6	Secondary Radiated Emission	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
7	Spurious Emissions	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
8	Interference Prevention Function	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Pass	--
9	Transmission Radiated Angle Width (3dB Beam Bandwidth)	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	N/A	Note ³
10	Construction Protection Confirmation	11b/11g/11n20/11n40	1/13	3/11	1/6/6.5/13.5/Mbps	Compliance	--
11	Carrier Sense Function	11n40	--	3/11	13.5 Mbps	Compliance	--
12	Carrier Sense Function	--	--	--	--	N/A	Note ⁴

Note 1: The tests were performed according to the method of measurements prescribed in MIC Notice No.88 Appendix No.43.

Note 2: Application to transmitting devices which E.I.R.P. is less than (2.14dBi+antenna power limit) and the shortage of E.I.R.P. is compensated by the antenna power.

Note 3: This test is not applicable for 802.11b/g/n20 EIRP is less than 12.14dBm/MHz and 802.11n40 EIRP is less than 9.14dBm/MHz.

Note 4: Not apply to this device, since EIRP does not require compensation through Antenna Power.

The test channel corresponding to the frequency list:

Mode	Channel	Channel Number	Frequency (MHz)
11b	HIGH/LOW(H/L)	13/1	2472/2412
11g	HIGH/LOW(H/L)	13/1	2472/2412
11n20	HIGH/LOW(H/L)	13/1	2472/2412
11n40	HIGH/LOW(H/L)	11/3	2422/2462

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	52%	
Atmospheric Pressure	103 kPa	
Temperature	NT (Normal Temperature)	+26°C
Working Voltage of the EUT	NV (Normal Voltage)	3.870VDC
	LV (Low Voltage)	3.483VDC
	HV (High Voltage)	4.257VDC

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	3.870VDC	4.257VDC	3.483VDC
Output To RF Module	3.3VDC	3.3VDC	3.3VDC
Voltage Variation (%)	--	0.00%	0.00%

Note:

Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100%
For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.

4.2 Test Equipment

Radiated Emission and RF Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2026-04-08	2027-04-07
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2026-04-12	2027-04-11
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2026-04-12	2027-04-11
Pre-amplifier	Agilent	8447D	EE-009	2026-04-08	2027-04-07
Pre-amplifier	Agilent	8449B	EE-010	2026-04-07	2027-04-06
MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-04-07	2027-04-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-04-07	2027-04-06
Test Software	Farad	EZ-EMC	EE-015	/	/
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2026-04-11	2027-04-10
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	/	/
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2026-02-13	2027-02-12
Loop Antenna	TESEQ	HLA6121	EE-403	2026-02-13	2027-02-12
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2026-02-13	2027-02-12
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2025-07-29	2026-07-28
DC Power Source	QJE	QJ3020E	ES-037	2025-07-29	2026-07-28
Note ¹ : Calibration Company: Shenzhen Academy Of Metrology& Quality inspection.					
Note ² : Calibration method: Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 and Article 24-2, Paragraph 4 of the Radio Act.					

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	--	--	--	--

4.4 Measurement Uncertainty

Parameters	Uncertainty
Frequency Error / 99% Bandwidth	$(3.2 \times f \times 10^{-6})$ Hz
Antenna Power	1.82 dB
TX-RX Spurious Emissions	1.84 dB
Transmission Antenna Gain	5.36 dB
Temperature	0.82 °C
Humidity	4.1%
DC / AC Power Source	0.04%
Duty Cycle	0.05%
Noet: "f" is the nominal signal frequency in Hz.	

Note: This uncertainty represents as expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5 Test Items

5.1 Frequency Tolerance Test

5.1.1 Test Requirement

Item	Limits
Frequency Tolerance	$\leq \pm 50$ ppm

5.1.2 Test Setup Diagram



5.1.3 Test Procedure

Test Frequency= test channel
 RBW=VBW=10KHz
 Span=1MHz (for 802.11b/g/n20)
 Sweep time=Auto
 Detector mode=Positive peak
 Indication mode=Max hold
 EUT have transmitted unmodulated signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, fc is declaring of channel frequency.

5.1.4 Test Deviation

There is no deviation with the original standard.

5.1.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, modulated waveform mode (computing).

5.1.6 Test Data

PASS.

Please refer to Annex D for details.

5.2 Occupied Bandwidth

5.2.1 Test Requirement

Item	Limits
Occupied Band Width	FHSS $\leq$ 83.5MHz; OFDM $\leq$ 40MHz; DSSS $\leq$ 26MHz; Others $\leq$ 26MHz

5.2.2 Test Setup Diagram



5.2.3 Test Procedure

- Set the spectrum analyzer as follows:
 Center frequency: Test frequency
 Span: Approximately 2 to 3.5 times nominal bandwidth
 Resolution bandwidth: Within 3% of the technical standard
 Video bandwidth: equivalent to resolvable bandwidth
 Sweep time: auto
 Sweep mode: Continuous sweep
 Detection: Positive peak
 Trace mode: Maximum hold
- After repeating sweeps until the display shows steady data, store the values at all data points into the computer array variables.
- Convert the dB values at all data points to antilogarithm on the power dimension.
- Obtain sum total of the power at all data points, and store it as "total power".

5.2.4 Test Deviation

There is no deviation with the original standard.

5.2.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.2.6 Test Data

PASS.

Please refer to Annex D for details.

5.3 Antenna Power / EIRP Antenna Power

5.3.1 Test Requirement

Item	Limits
Antenna Power Density	a) FH, FH+DS, or FH+OFDM form 2427 - 2470.75 MHz: ≤ 3 mW/MHz b) DS but other than a) from 2400~2483.5 MHz: ≤ 10 mW/MHz c) OFDM, but other than a): For OCB of 26MHz or less: ≤ 10 mW/MHz For OCB of over 26 MHz to 40 MHz: ≤ 5 mW/MHz d) Other than a), b) and c): ≤ 10 mW
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)
EIRP Power	12.14 dBm/MHz

5.3.2 Test Setup Diagram



5.3.3 Test Procedure

[Setting 1] – Search for peak power frequency	
Center Frequency:	Test frequency
Span:	Approximately twice the occupied bandwidth
RBW:	$\geq$ OBW
VBW:	Approximately three times the RBW
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold
[Setting 2] – Measurement of average antenna power other than for FHSS, DSSS, OFDM	
Frequency:	Frequency of peak power found using [Setting 1]
Span:	0 Hz
RBW:	Bandwidth sufficient to cover that occupied by the carrier
VBW:	Bandwidth sufficient to cover that occupied by the carrier
Detector mode:	Sample
Sweep:	Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval
Sweep data points:	1001 or greater

5.3.4 Test Deviation

There is no deviation with the original standard.

5.3.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.3.6 Test Data

PASS.

Please refer to Annex D for details.

5.4 Spurious Emissions Intensity Test

5.4.1 Test Requirement

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($30 \leq f \leq 1000 \text{ MHz}$),
	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($1000 \text{ MHz} \leq f < 2387 \text{ MHz}$; $2496.5 \text{ MHz} < f$)
	$\leq 25 \mu\text{W}$ ($2387 \text{ MHz} \leq f < 2400 \text{ MHz}$) and ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)

5.4.2 Test Setup Diagram



5.4.3 Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
RBW&VBW	30-1000 MHz: 1 MHz/1 MHz
	Above 1GHz: 1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Auto

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RBW/VBW = 1MHz; / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. Setting of SA is following as 30 MHz and stop frequency 1000 MHz Then to mark peak reading value + cable loss shall be less than 2.5 $\mu\text{W}/\text{MHz}$.
4. Setting of SA is following as 1000 MHz and stop frequency 2387 MHz Then to mark peak reading value + cable loss shall be less than 2.5 $\mu\text{W}/\text{MHz}$.
5. SA adjusted to start frequency 2387 MHz and stop frequency 2400 MHz. Then to mark peak reading value + cable loss shall be less than 25 $\mu\text{W}/\text{MHz}$.
6. SA adjusted to start frequency 2483.5 MHz and stop frequency 2496.5 MHz Then to mark peak reading value + cable loss shall be less than 25 $\mu\text{W}/\text{MHz}$.
7. SA adjusted to start frequency 2496.5 MHz and stop frequency 12500 MHz Then to mark peak reading value + cable loss shall be less than 2.5 $\mu\text{W}/\text{MHz}$.
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

5.4.4 Test Deviation

There is no deviation with the original standard.

5.4.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.4.6 Test Data

PASS.

Please refer to Annex D for details.

5.5 Secondary Radiated Emissions Test

5.5.1 Test Requirement

Item	Limits
RX Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

5.5.2 Test Setup Diagram



5.5.3 Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
RBW&VBW	30-1000 MHz: 100KHz/100KHz
	Above 1GHz: 1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Auto

1. EUT has the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT:10 dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. SA set RB: 100 kHz and VB: 100 kHz. Then adjust to start frequency 30 MHz and stop frequency 1000 MHz. Search to mark peak reading value + cable loss shall be less than 4 nW.
4. SA set RB: 1 MHz and VB: 1 MHz. Then adjust to start frequency 1000 MHz and stop frequency 12500 MHz. Search to mark peak reading value + cable loss shall be less than 20 nW.
5. If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2 nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

5.5.4 Test Deviation

There is no deviation with the original standard.

5.5.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.5.6 Test Data

PASS.

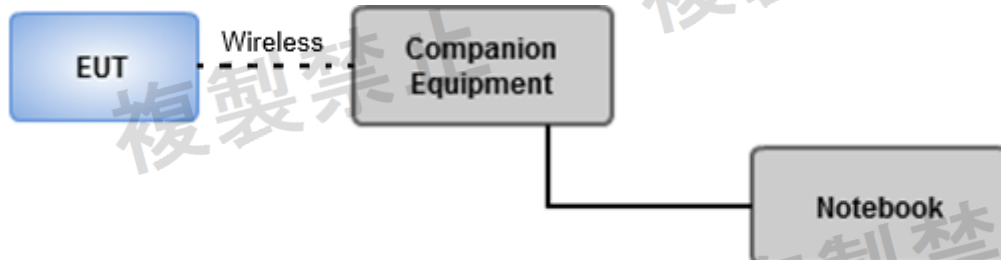
Please refer to Annex D for details.

5.6 Interference Prevention Function

5.6.1 Test Requirement

Item	Limits
Identification	≥ 48 bits

5.6.2 Test Setup Diagram



5.6.3 Test Procedure

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

5.6.4 Test Deviation

There is no deviation with the original standard.

5.6.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.6.6 Test Data

PASS.

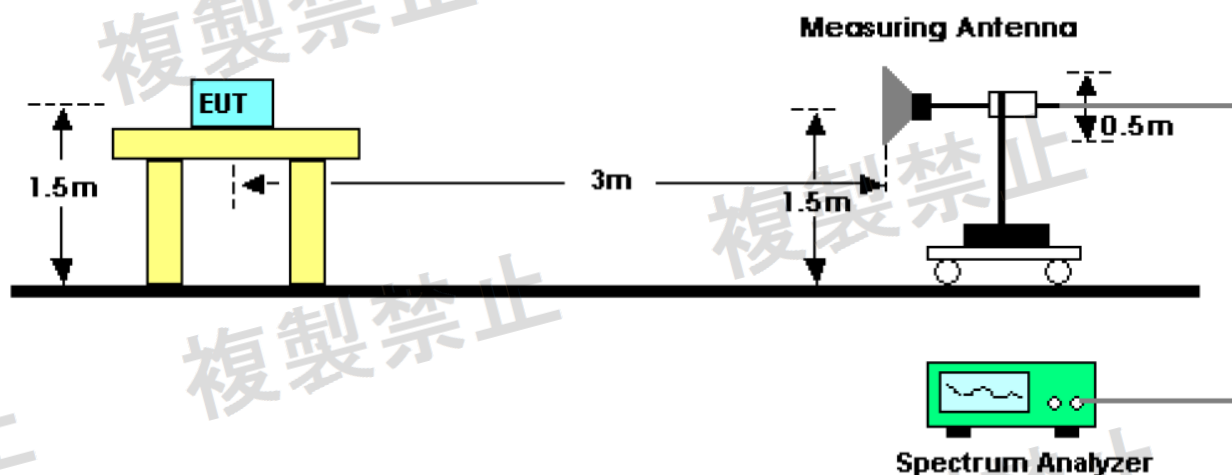
Mode	ID Code	Test Results
WiFi 2.4G	3A:A7:C9:21:13:42	Pass

5.7 Transmission Radiation Angle Width (3dB Beamwidth) Measurement

5.7.1 Test Requirement

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$
Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.	

5.7.2 Test Setup Diagram



5.7.3 Test Procedure

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with RBW=1 MHz, VBW=1 KHz, Y scale=5 dB, Detector=Peak, Trace mode=Max Hold, and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$). $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$

5.7.4 Test Deviation

There is no deviation with the original standard.

5.7.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

5.7.6 Test Data

Note: Because the 802.11b/g/n20 EIRP is less than 12.14dBm/MHz and 802.11n40 EIRP is less than 9.14dBm/MHz, this item is not applicable.

5.8 Carrier Sense Function

5.8.1 Test Requirement

Limits	Radio equipment using OFDM method shall provide a carrier sensing function when the occupied bandwidth of its transmitting device is over 26 MHz and 40 MHz or less.
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5.8.2 Test Setup Diagram



5.8.3 Test Procedure

- 1 Set the spectrum analyzer as follows:
Center frequency: Center of frequency of test channel
Frequency sweep width: 50MHz
RBW: Approximately 1MHz
VBW: Approximately same as RBW
Y-axis scale: 10dB / div
Detection mode: Positive peak
- 2 Turn off the output of the standard signal generator. Set the standard signal generator as follows:
Carrier frequency: Center of reception frequency band of EUT
Modulation: No modulation
Output level: Specified level at antenna input of EUT
- 3 Make a line connection between the EUT and the external test device and confirm using the spectrum analyzer that the EUT is transmitting a test frequency signal of OFDM method which occupied bandwidth is over 26 MHz.
- 4 EUT is set to a test frequency and a test spreading code and put to reception state first. when using an external test device, a communication link between the EUT and the external test device is established.
- 5 Turn on the output of the standard signal generator, set the EUT to transmission state and confirm using the spectrum analyzer that the EUT does not transmit radio wave of OFDM method which occupied bandwidth is over 26 MHz.

5.8.4 Test Deviation

There is no deviation with the original standard.

5.8.5 EUT Operation during Test

EUT is set to a test frequency and a test spreading code and put to reception state first.

5.8.6 Test Data
802.11n (40M)

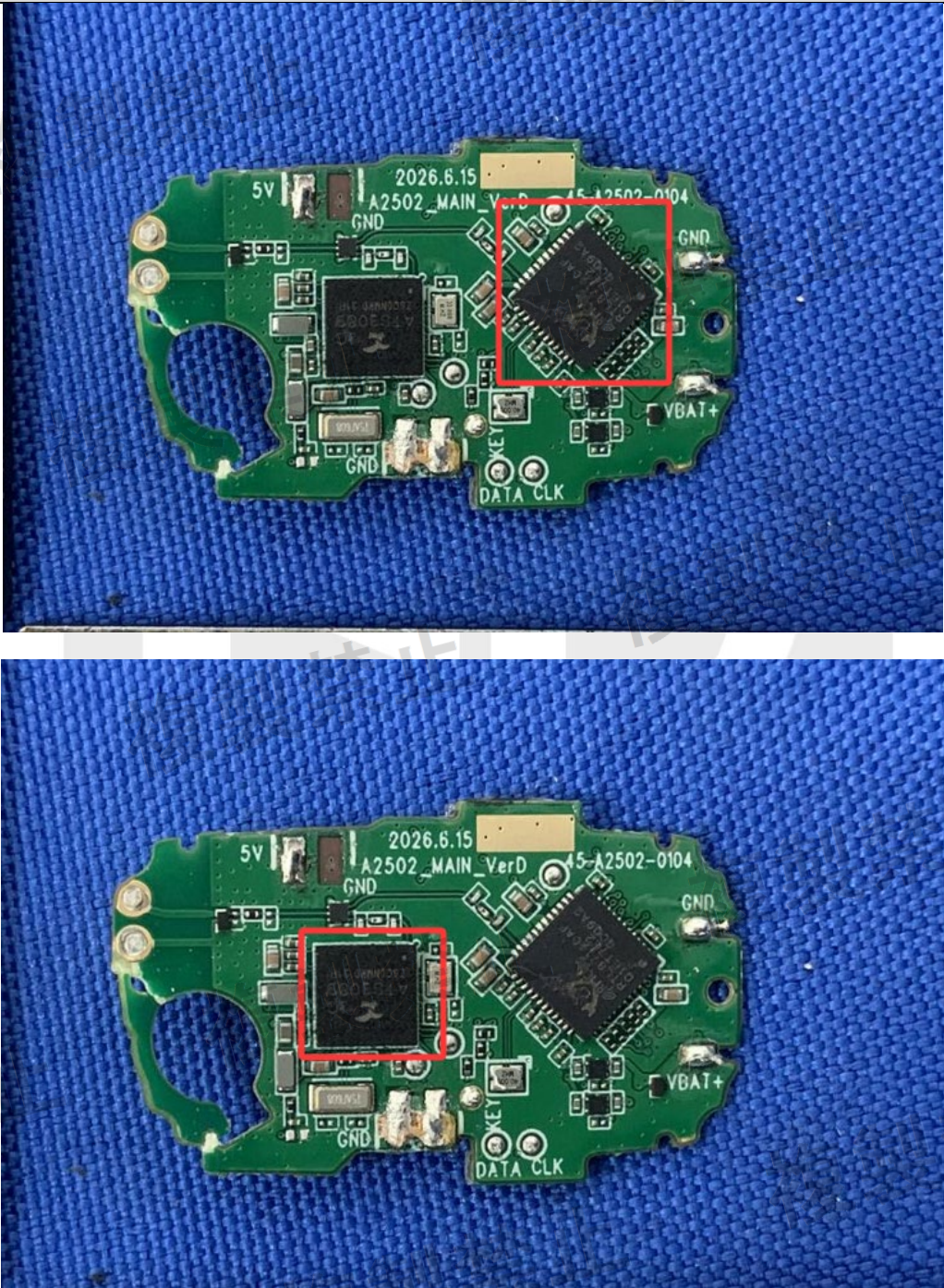
Test Voltage	Channel	Test Result	Verdict
LV	Low	GOOD	Pass
	Middle	GOOD	Pass
	High	GOOD	Pass
NV	Low	GOOD	Pass
	Middle	GOOD	Pass
	High	GOOD	Pass
HV	Low	GOOD	Pass
	Middle	GOOD	Pass
	High	GOOD	Pass

5.9 Construction Protection Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Structure protection	1. The terminal number is 48, terminal pitch is 1mm. it can't be easily opened and modified. 2. The RF Module is BGA SoC IC, can't be easily modified.

Reference Photo



ANNEX A TEST SETUP PHOTOS

Please refer to the document "8432EU011826W1-AA.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8432EU011826W1-AB.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8432EU011826W1-AC.PDF"

ANNEX D TEST DATA

1. Frequency Error

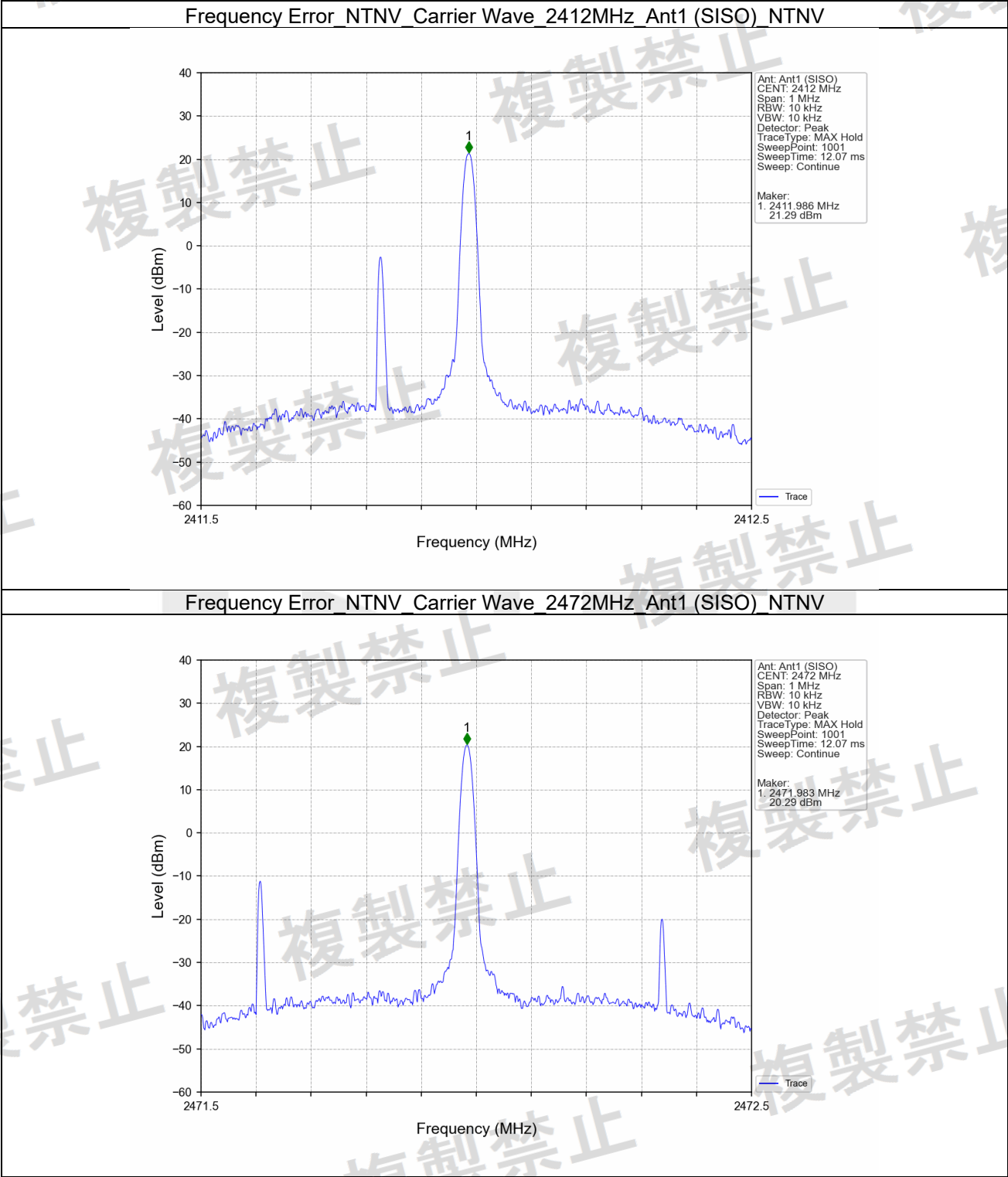
1.1 Test Result

1.1.1 Ant1

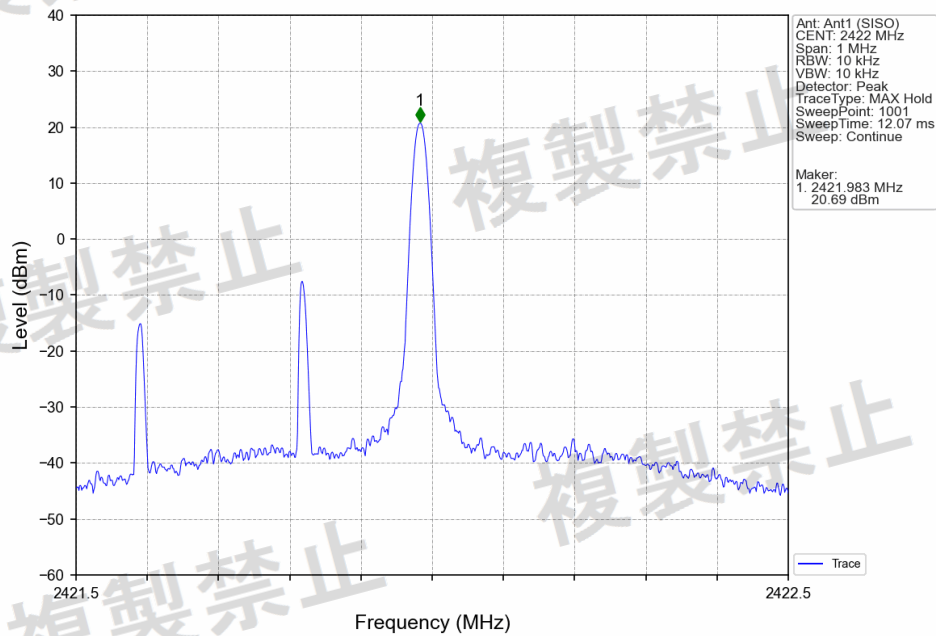
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2412	2411.986	-5.80	-50 to 50	Pass
			2472	2471.983	-6.88	-50 to 50	Pass
			2422	2421.983	-7.02	-50 to 50	Pass
			2462	2461.982	-7.31	-50 to 50	Pass

1.2 Test Graph

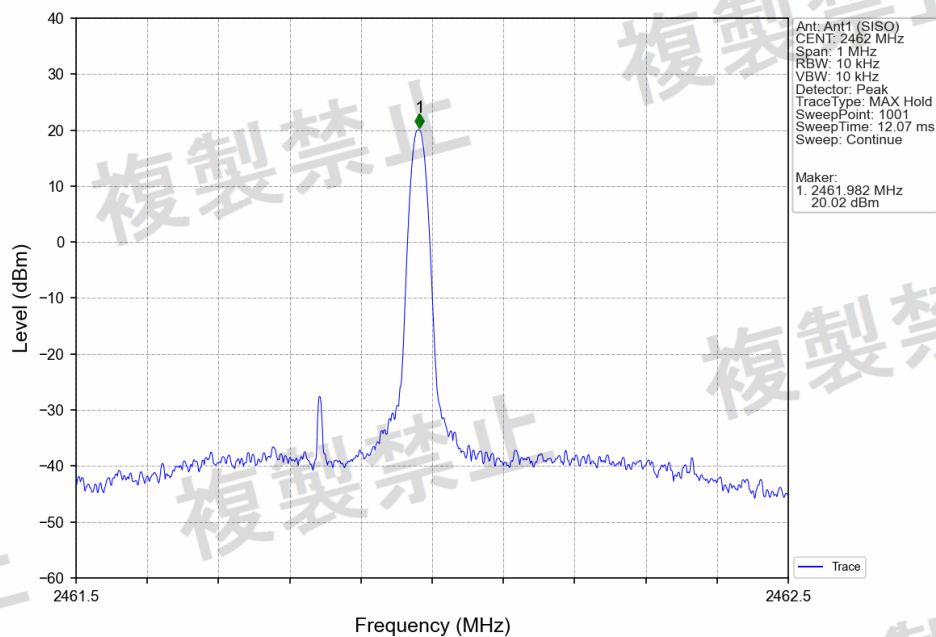
1.2.1 Ant1



Frequency Error_NTNV_Carrier Wave_2422MHz_Ant1 (SISO)_NTNV



Frequency Error_NTNV_Carrier Wave_2462MHz_Ant1 (SISO)_NTNV



2. Occupied Bandwidth

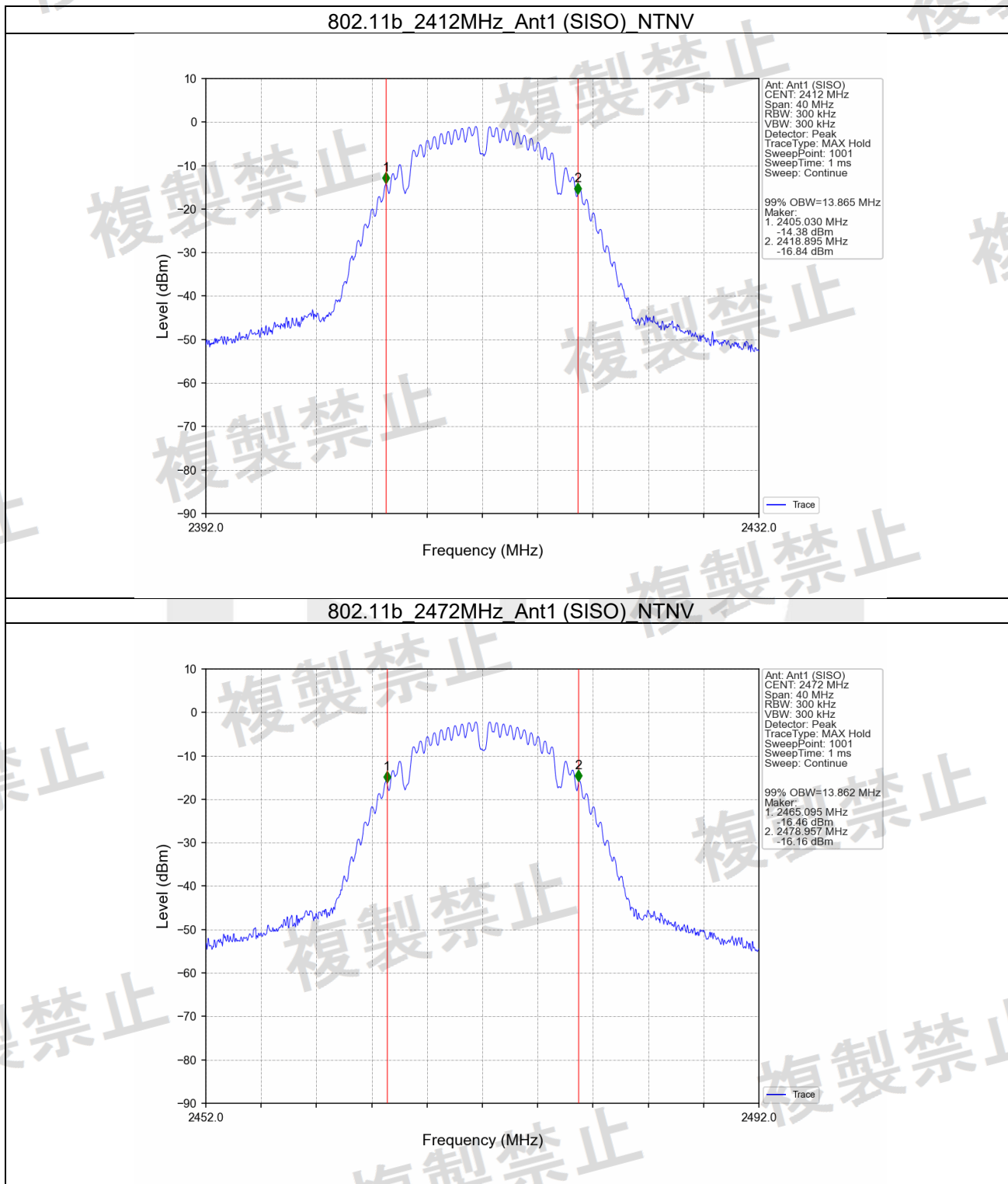
2.1 Test Result

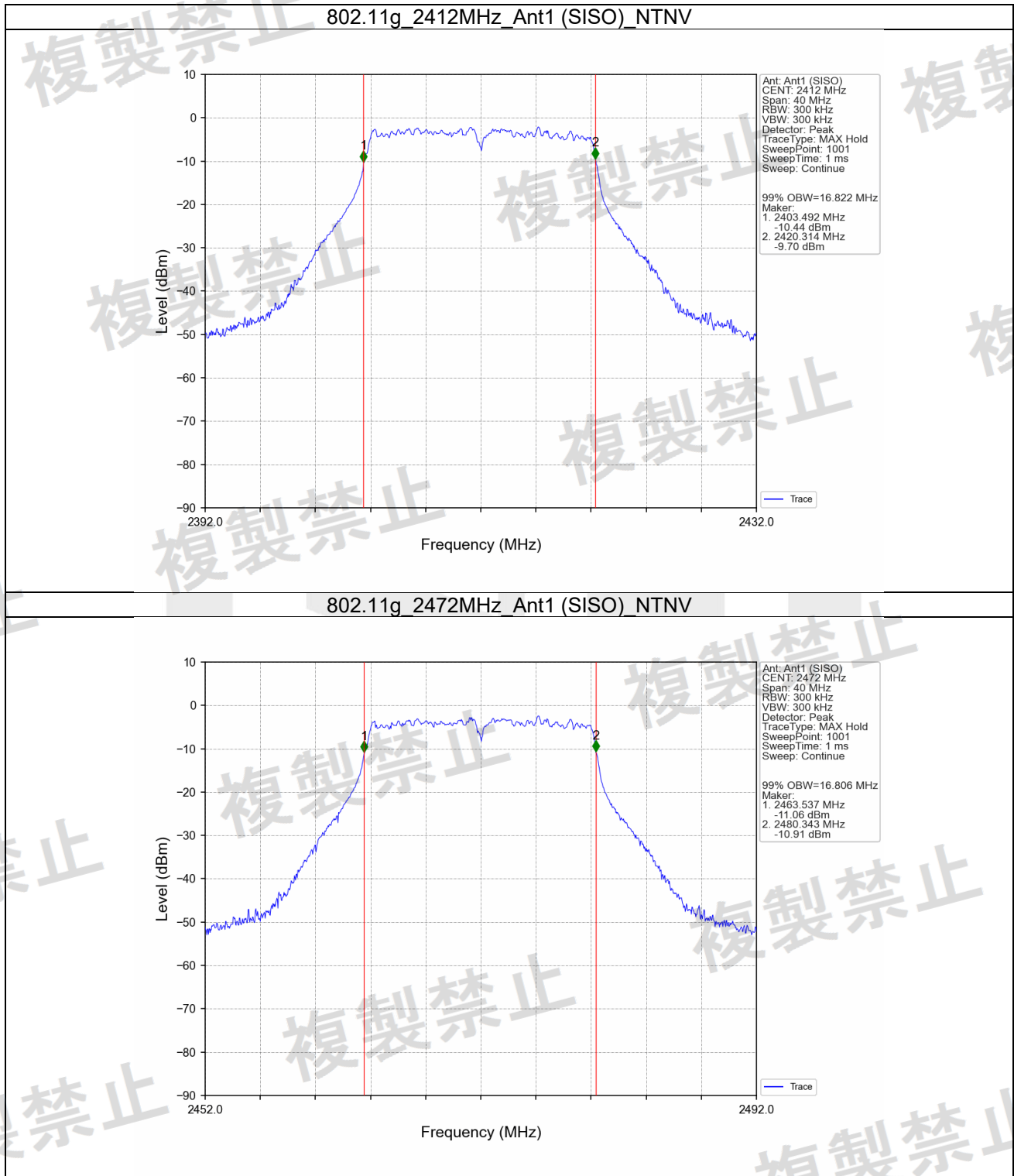
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	13.865	≤ 26	Pass
			2472	13.862	≤ 26	Pass
	802.11g	SISO	2412	16.822	≤ 26	Pass
			2472	16.806	≤ 26	Pass
	802.11n (HT20)	SISO	2412	18.025	≤ 26	Pass
			2472	18.004	≤ 26	Pass
	802.11n (HT40)	SISO	2422	35.882	≤ 40	Pass
			2462	35.903	≤ 40	Pass

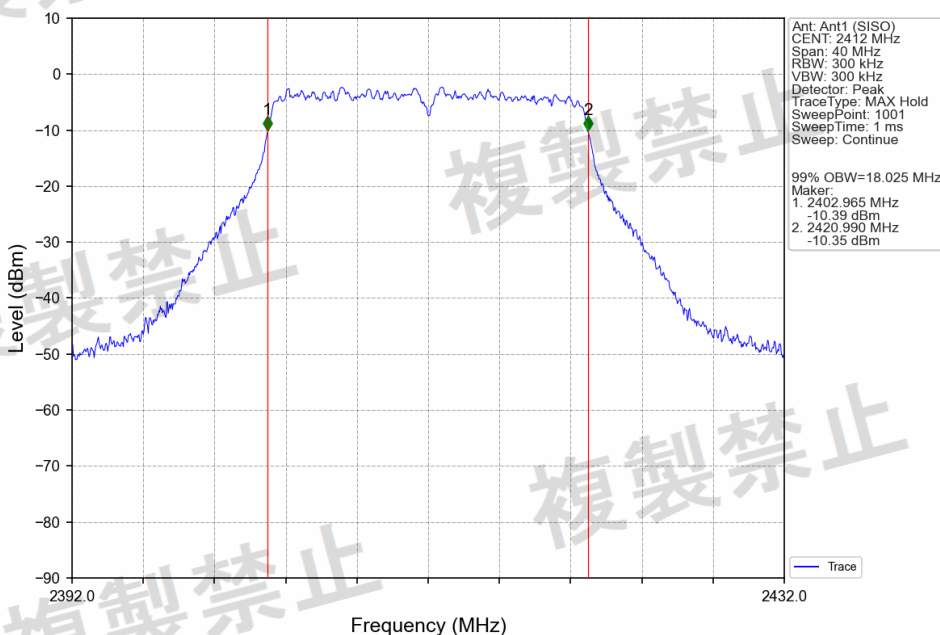
2.2 Test Graph

2.2.1 OBW

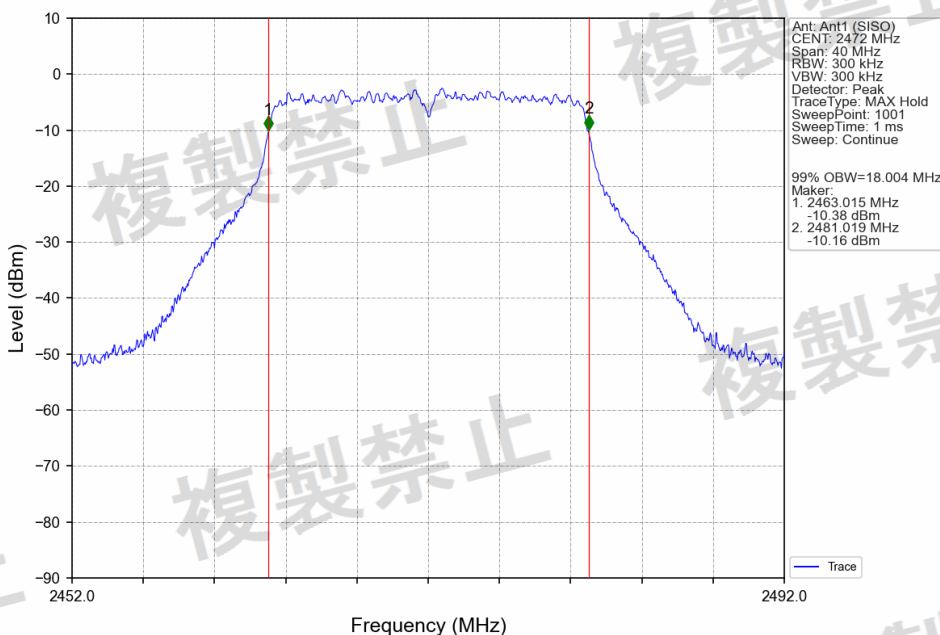




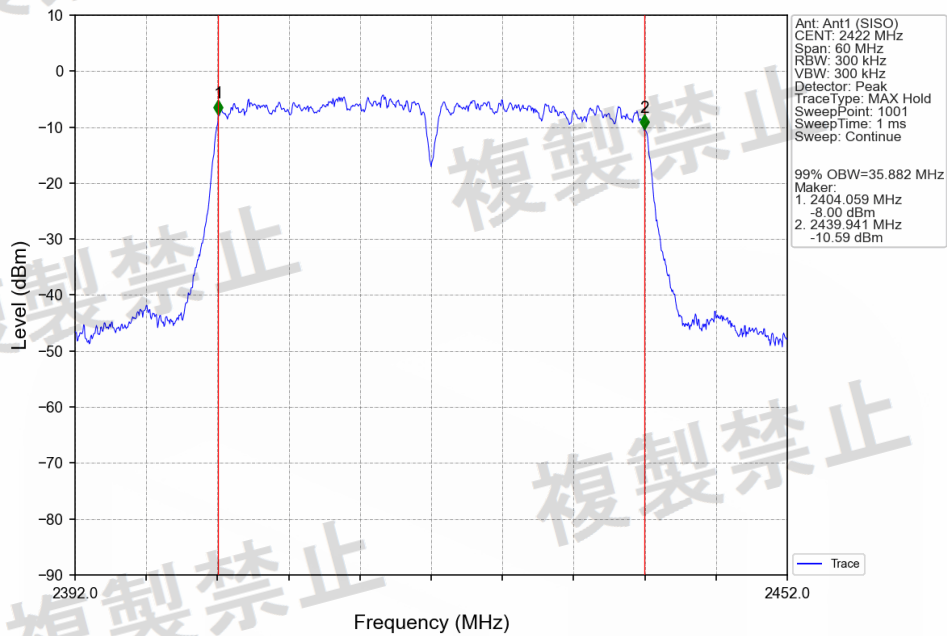
802.11n(HT20) 2412MHz_Ant1 (SISO)_NTNV



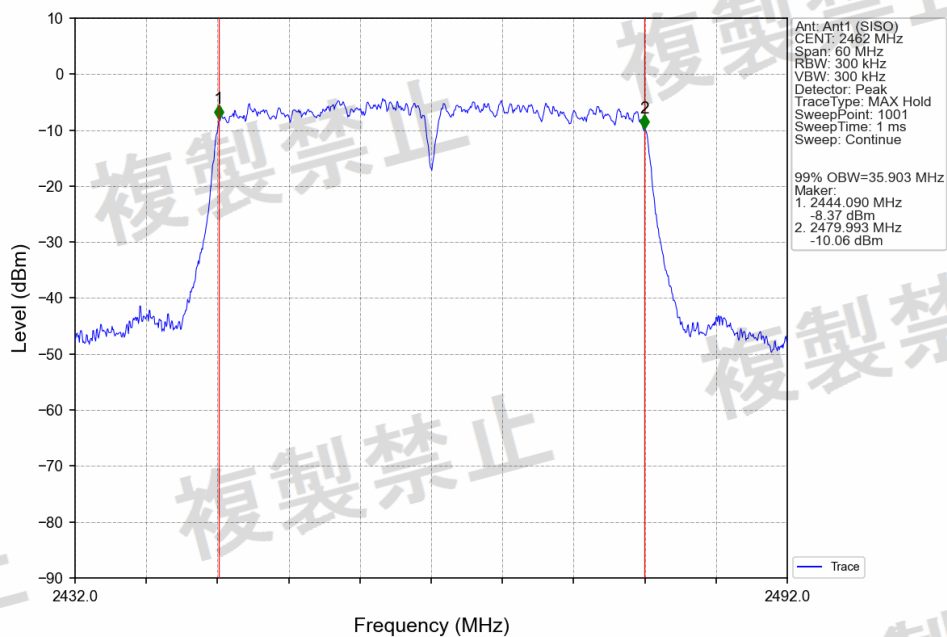
802.11n(HT20) 2472MHz_Ant1 (SISO)_NTNV



802.11n(HT40) 2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40) 2462MHz_Ant1 (SISO)_NTNV



3. Antenna Power

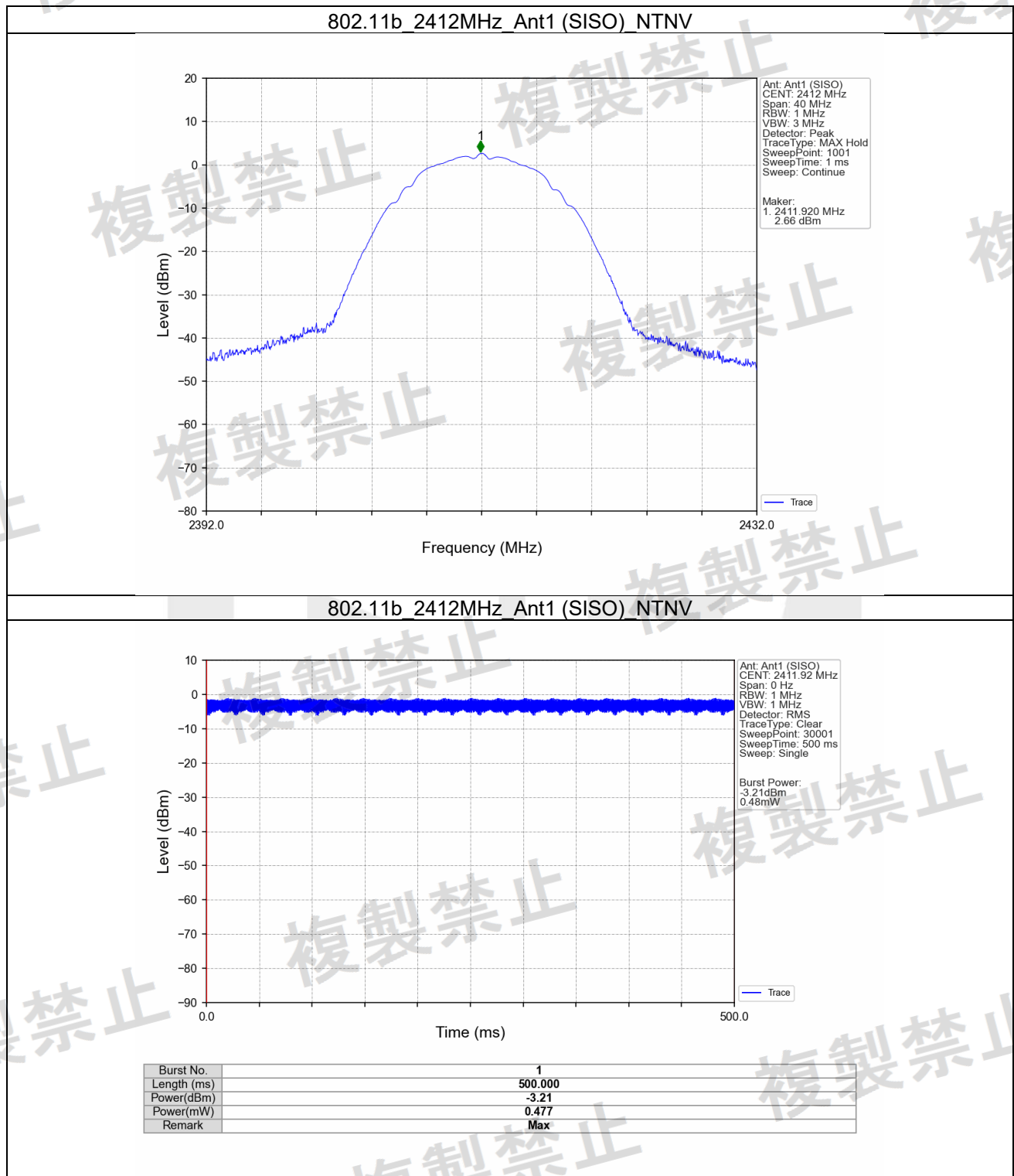
3.1 Test Result

3.1.1 Power

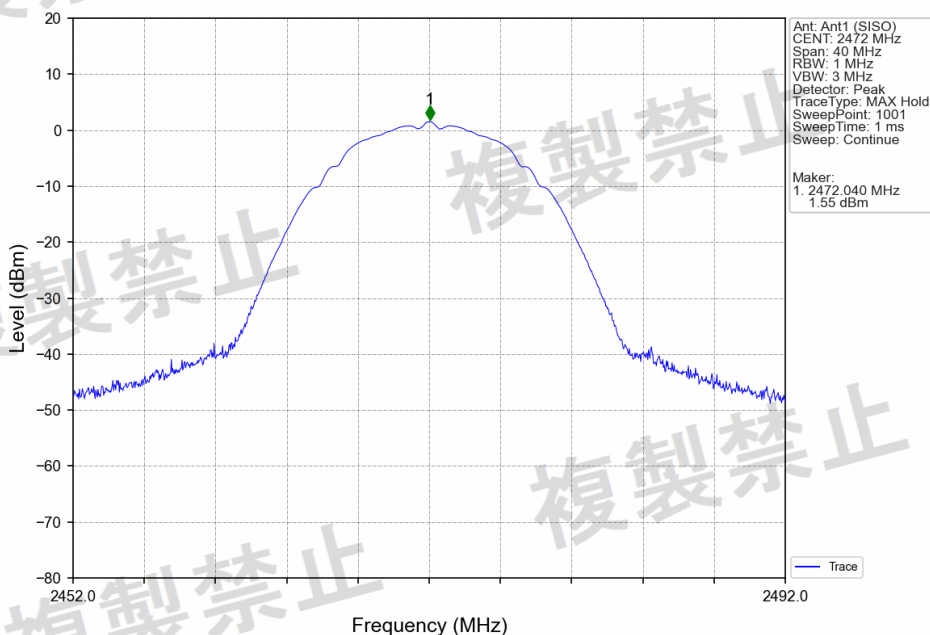
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Limit (mW/MHz)	Verdict
					Measured	Limit		Measured	Limit		
NTNV	802.11b	SISO	2412	1	0.477	<=10.00	0.600	10	<=20	10	Pass
			2472	1	0.368	<=10.00	0.600	-38.67	<=20	10	Pass
	802.11g	SISO	2412	1	0.406	<=10.00	0.600	-32.33	<=20	10	Pass
			2472	1	0.357	<=10.00	0.600	-40.50	<=20	10	Pass
	802.11n (HT20)	SISO	2412	1	0.360	<=10.00	0.400	-10.00	<=20	10	Pass
			2472	1	0.329	<=10.00	0.400	-17.75	<=20	10	Pass
	802.11n (HT40)	SISO	2422	1	0.197	<=5.00	0.200	-1.50	<=20	10	Pass
			2462	1	0.184	<=5.00	0.200	-8.00	<=20	10	Pass

3.2 Test Graph

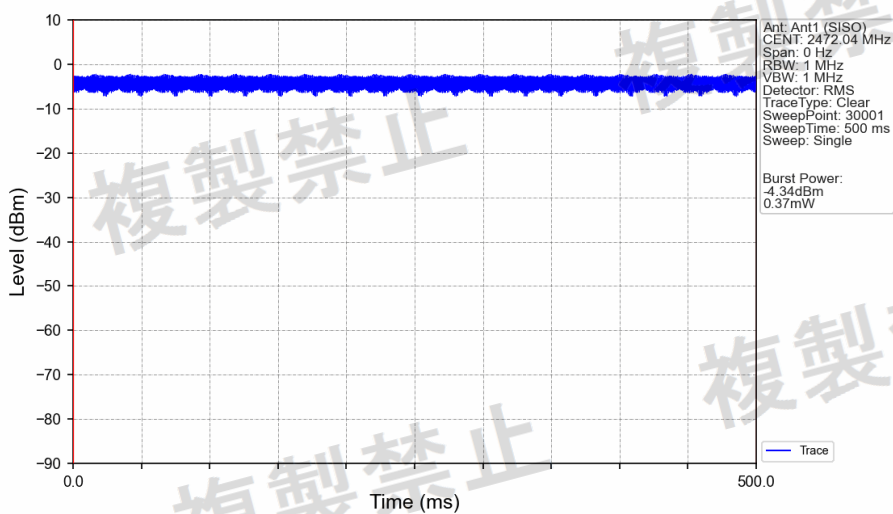
3.2.1 Power



802.11b_2472MHz_Ant1 (SISO)_NTNV

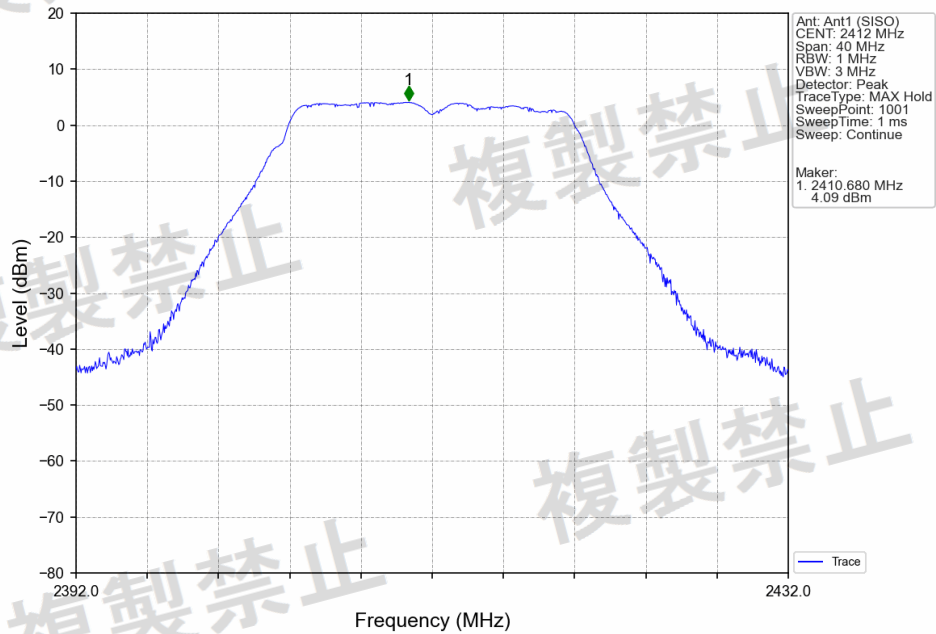


802.11b_2472MHz_Ant1 (SISO)_NTNV

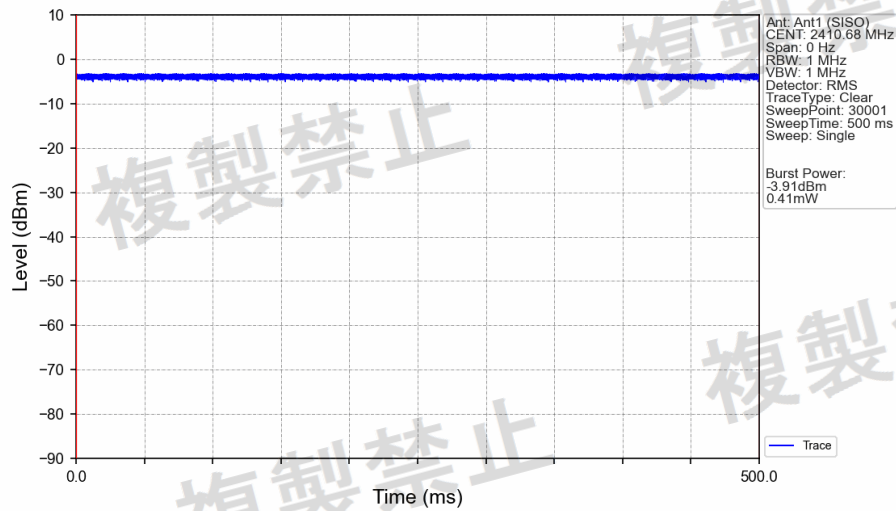


Burst No.	1
Length (ms)	500.000
Power(dBm)	-4.34
Power(mW)	0.368
Remark	Max

802.11g_2412MHz_Ant1 (SISO)_NTNV

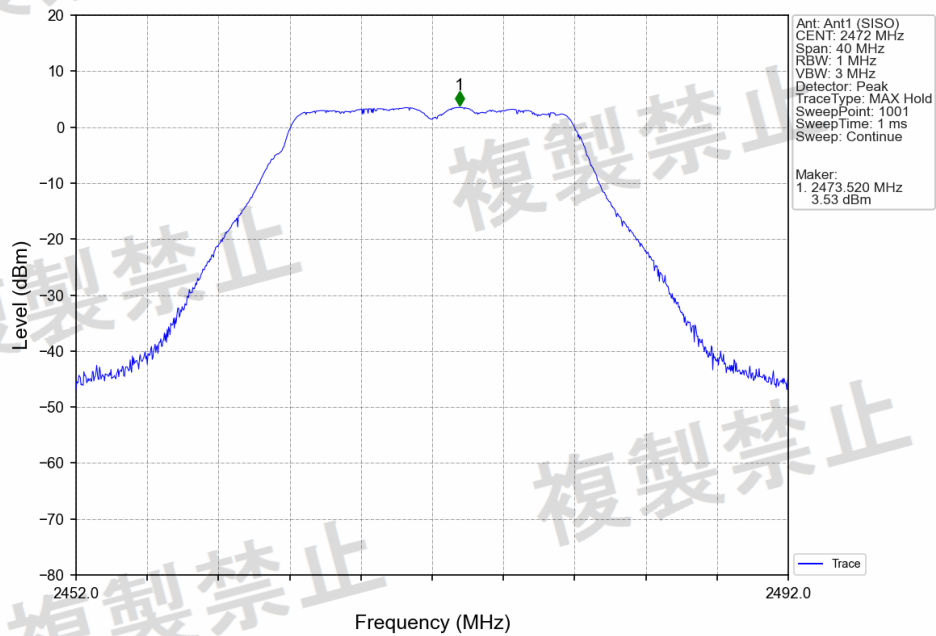


802.11g_2412MHz_Ant1 (SISO)_NTNV

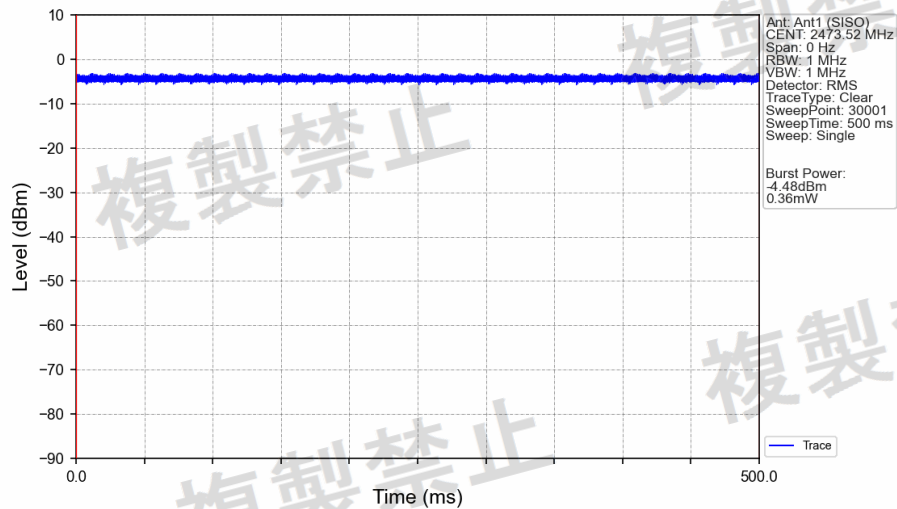


Burst No.	1
Length (ms)	500.000
Power(dBm)	-3.91
Power(mW)	0.406
Remark	Max

802.11g_2472MHz_Ant1 (SISO)_NTNV

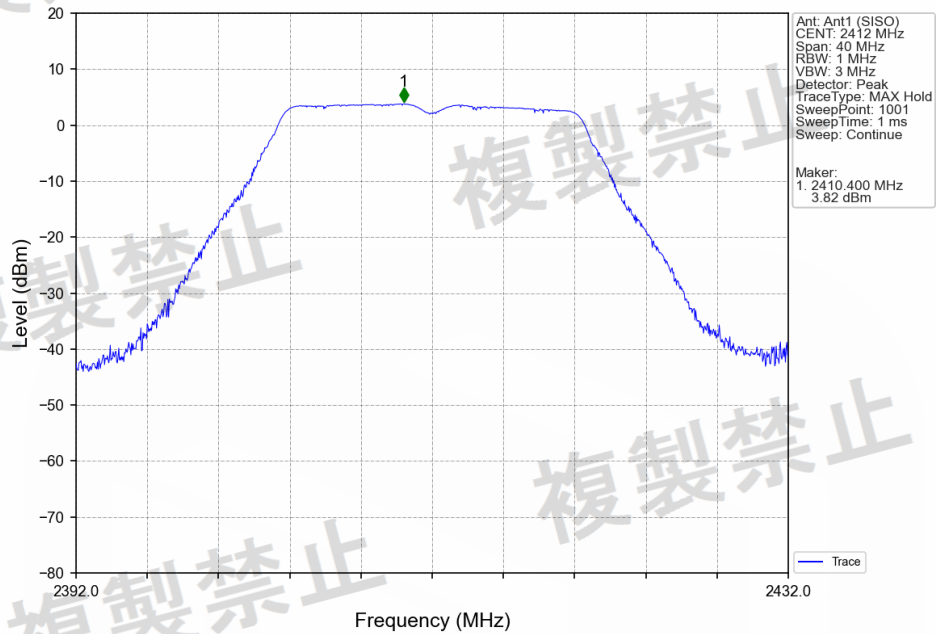


802.11g_2472MHz_Ant1 (SISO)_NTNV

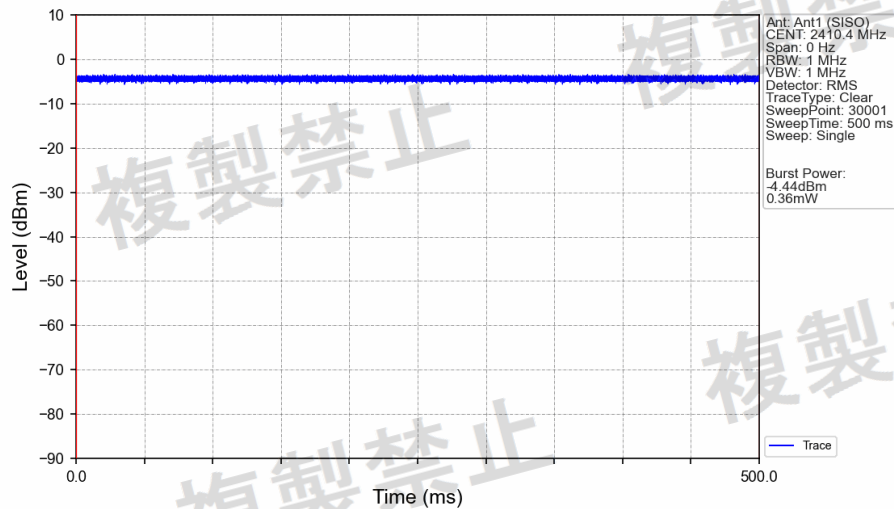


Burst No.	1
Length (ms)	500.000
Power(dBm)	-4.48
Power(mW)	0.357
Remark	Max

802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

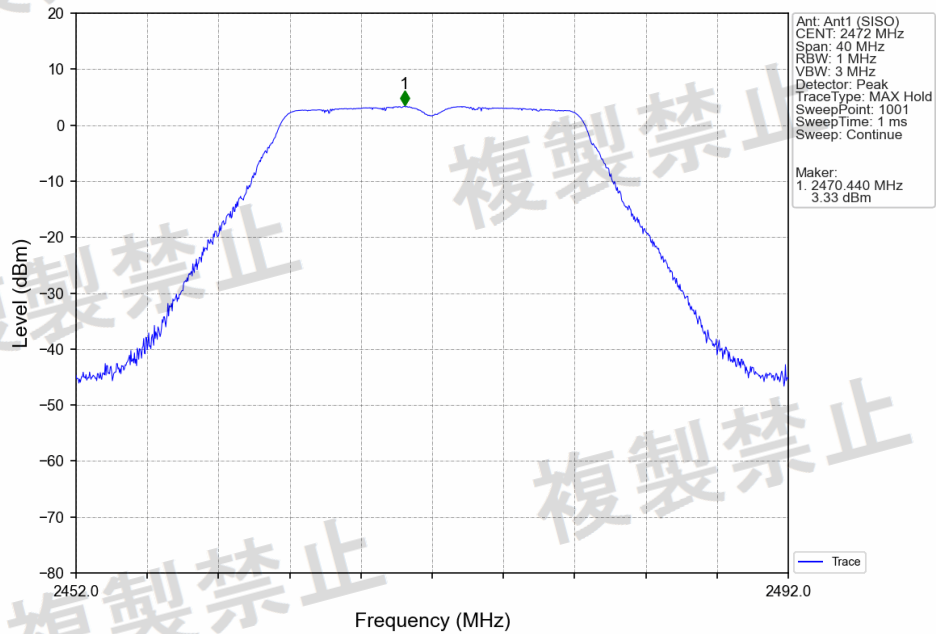


802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

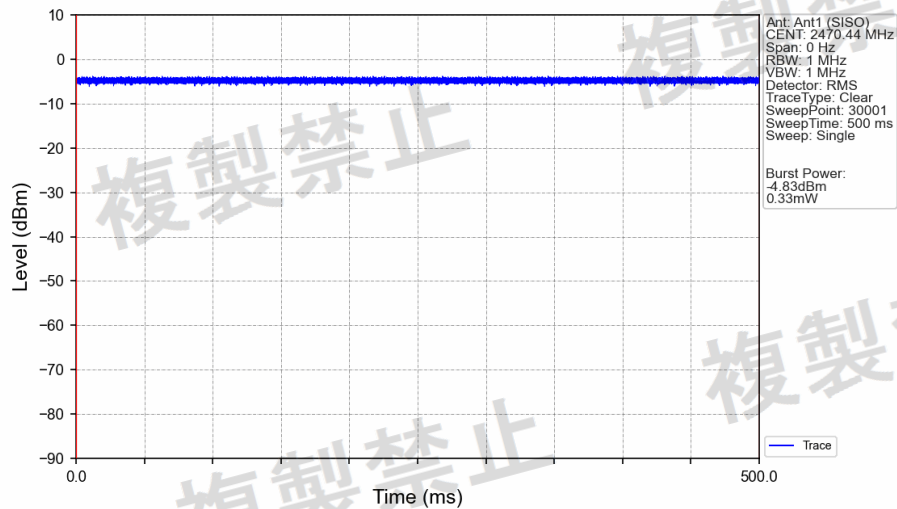


Burst No.	1
Length (ms)	500.000
Power(dBm)	-4.44
Power(mW)	0.360
Remark	Max

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

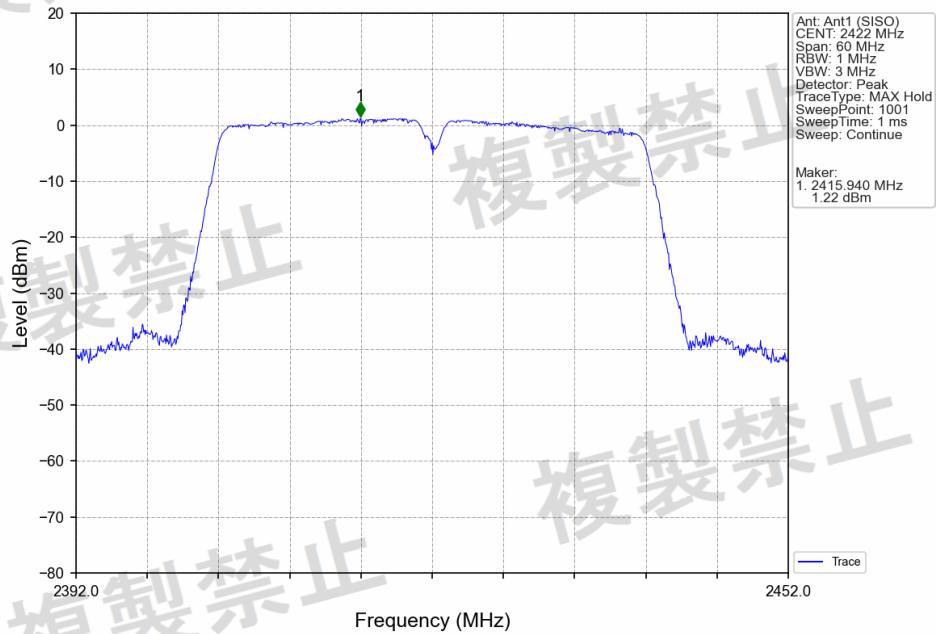


802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

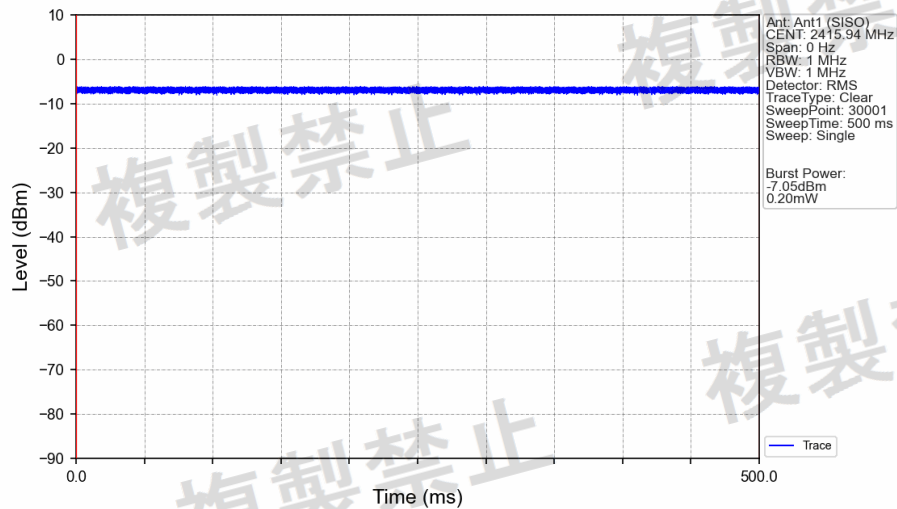


Burst No.	1
Length (ms)	500.000
Power(dBm)	-4.83
Power(mW)	0.329
Remark	Max

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV

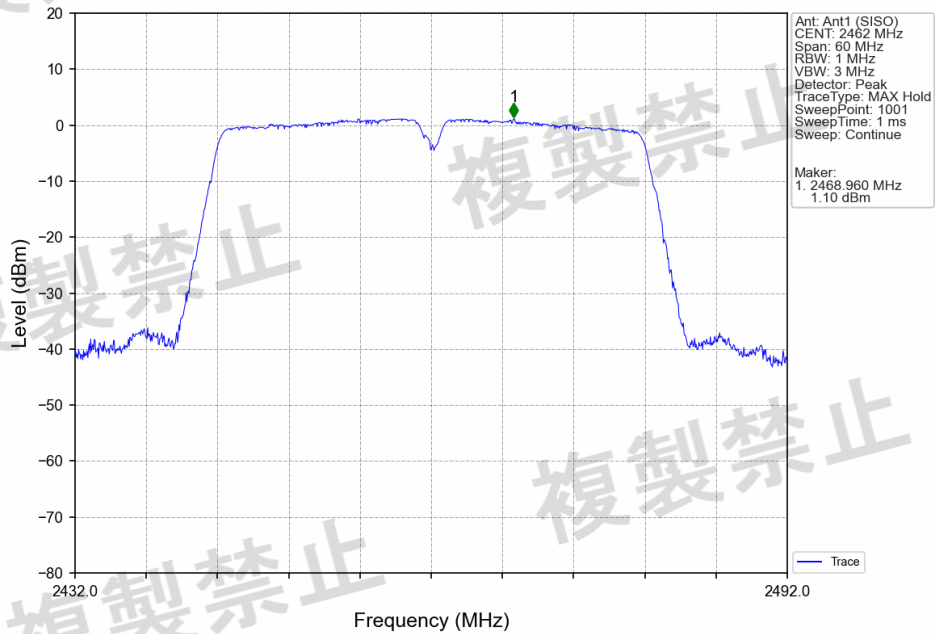


802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV

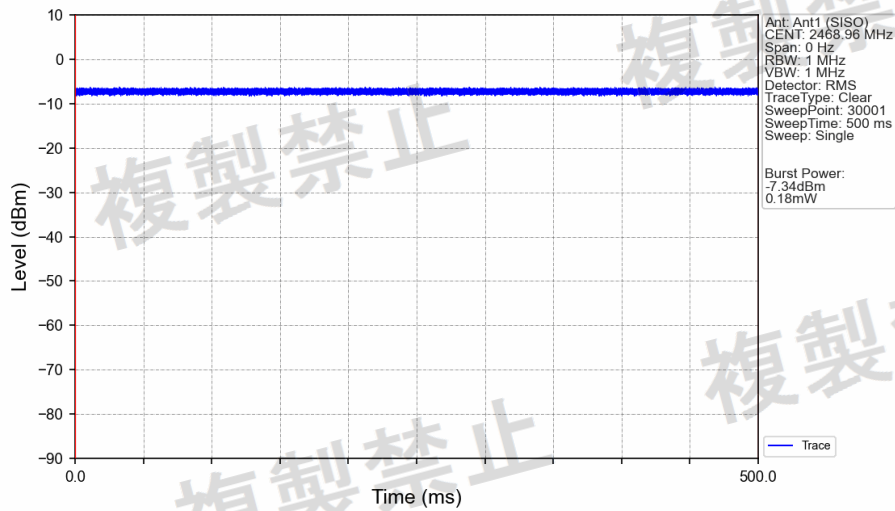


Burst No.	1
Length (ms)	500.000
Power(dBm)	-7.05
Power(mW)	0.197
Remark	Max

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



Burst No.	1
Length (ms)	500.000
Power(dBm)	-7.34
Power(mW)	0.184
Remark	Max

4. Spurious Emission Intensity

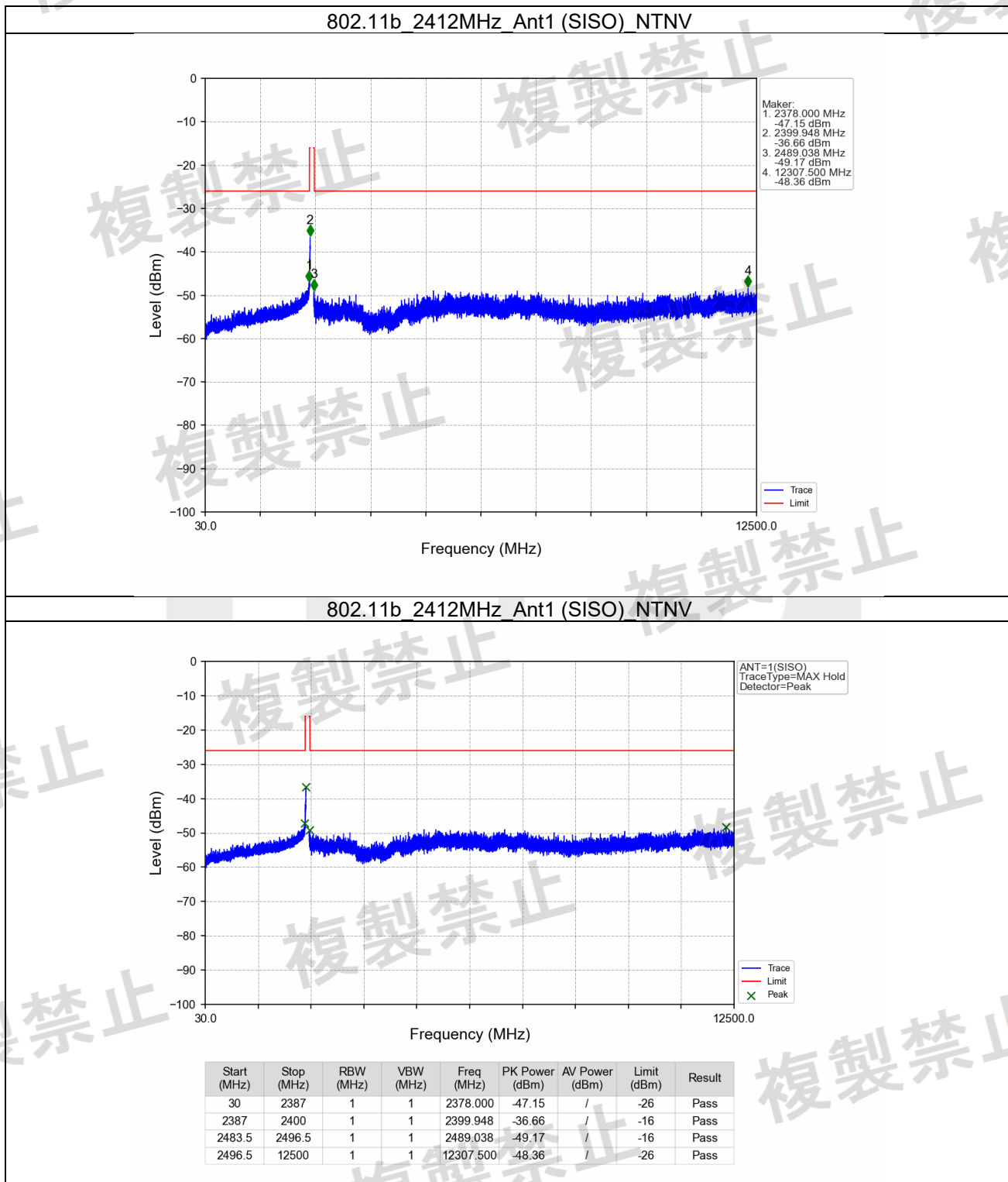
4.1 Test Result

4.1.1 TxSe_NTNV

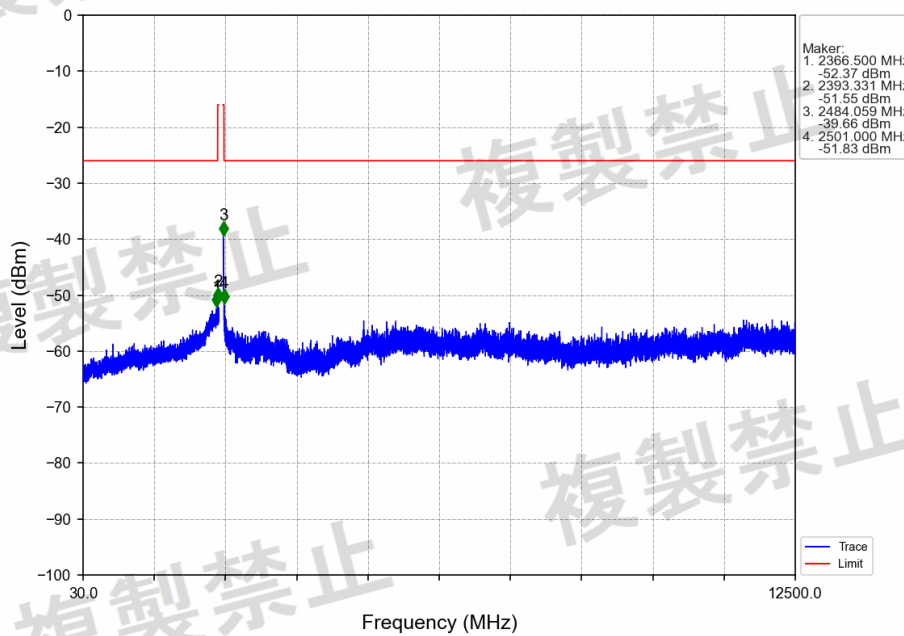
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	1	30	2387	2378	-47.15	0.019	/	/	2.5	Pass
				2387	2400	2399.948	-36.66	0.216	/	/	25	Pass
				2483.5	2496.5	2489.038	-49.17	0.012	/	/	25	Pass
				2496.5	12500	12307.5	-48.36	0.015	/	/	2.5	Pass
	SISO	2472	1	30	2387	2366.5	-52.37	0.006	/	/	2.5	Pass
				2387	2400	2393.331	-51.55	0.007	/	/	25	Pass
				2483.5	2496.5	2484.059	-39.66	0.108	/	/	25	Pass
				2496.5	12500	2501	-51.83	0.007	/	/	2.5	Pass
802.11g	SISO	2412	1	30	2387	2386.5	-45.97	0.025	/	/	2.5	Pass
				2387	2400	2399.987	-20.74	8.433	/	/	25	Pass
				2483.5	2496.5	2496.084	-49.05	0.012	/	/	25	Pass
				2496.5	12500	5713	-48.37	0.015	/	/	2.5	Pass
	SISO	2472	1	30	2387	2338.5	-48.91	0.013	/	/	2.5	Pass
				2387	2400	2395.112	-48.63	0.014	/	/	25	Pass
				2483.5	2496.5	2483.513	-20.76	8.395	/	/	25	Pass
				2496.5	12500	11739.5	-47.62	0.017	/	/	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2385.5	-47.00	0.020	/	/	2.5	Pass
				2387	2400	2399.935	-18.10	15.488	-37.14	0.193	25	Pass
				2483.5	2496.5	2489.376	-49.11	0.012	/	/	25	Pass
				2496.5	12500	11786.5	-48.21	0.015	/	/	2.5	Pass
	SISO	2472	1	30	2387	2369.5	-48.70	0.013	/	/	2.5	Pass
				2387	2400	2392.213	-48.80	0.013	/	/	25	Pass
				2483.5	2496.5	2483.513	-17.45	17.989	-36.09	0.246	25	Pass
				2496.5	12500	2502	-47.23	0.019	/	/	2.5	Pass
802.11n (HT40)	SISO	2422	1	30	2387	2386.5	-44.74	0.034	/	/	2.5	Pass
				2387	2400	2397.855	-35.98	0.252	/	/	25	Pass
				2483.5	2496.5	2489.831	-47.72	0.017	/	/	25	Pass
				2496.5	12500	12056	-47.66	0.017	/	/	2.5	Pass
	SISO	2462	1	30	2387	2383	-48.33	0.015	/	/	2.5	Pass
				2387	2400	2395.97	-46.88	0.021	/	/	25	Pass
				2483.5	2496.5	2486.399	-36.95	0.202	/	/	25	Pass
				2496.5	12500	2497	-47.07	0.020	/	/	2.5	Pass

4.2 Test Graph

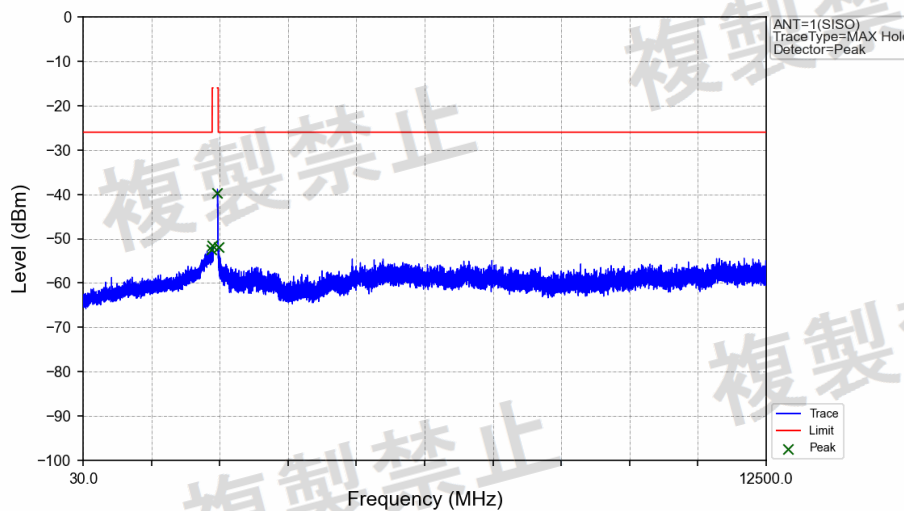
4.2.1 TxSe_NTNV



802.11b 2472MHz_Ant1 (SISO)_NTNV

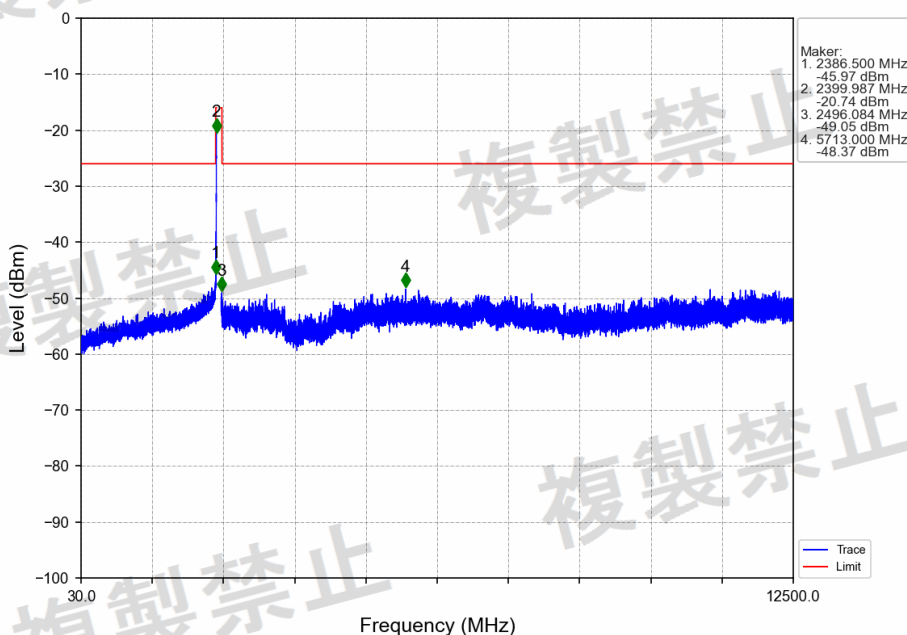


802.11b 2472MHz_Ant1 (SISO)_NTNV

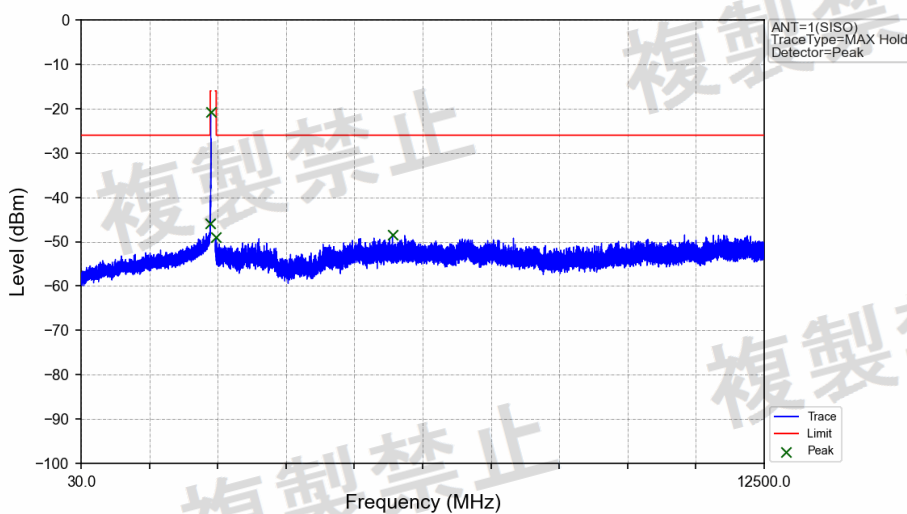


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2366.500	-52.37	/	-26	Pass
2387	2400	1	1	2393.331	-51.55	/	-16	Pass
2483.5	2496.5	1	1	2484.059	-39.66	/	-16	Pass
2496.5	12500	1	1	2501.000	-51.83	/	-26	Pass

802.11g_2412MHz_Ant1 (SISO)_NTNV

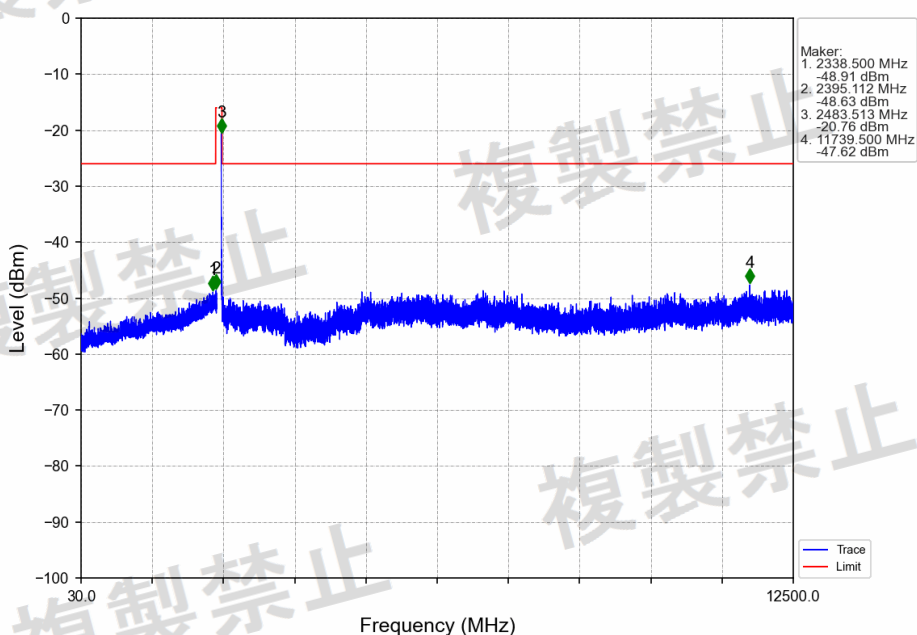


802.11g_2412MHz_Ant1 (SISO)_NTNV

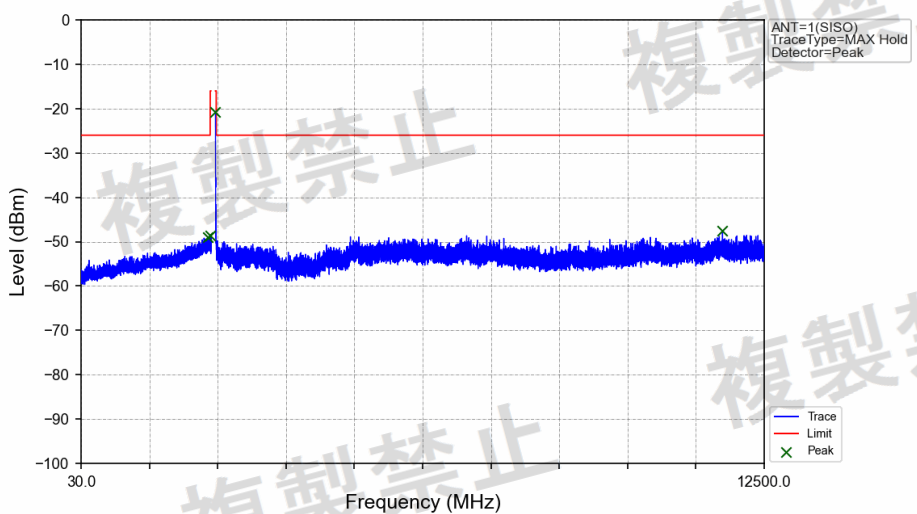


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-45.97	/	-26	Pass
2387	2400	1	1	2399.987	-20.74	/	-16	Pass
2483.5	2496.5	1	1	2496.084	-49.05	/	-16	Pass
2496.5	12500	1	1	5713.000	-48.37	/	-26	Pass

802.11g 2472MHz_Ant1 (SISO)_NTNV

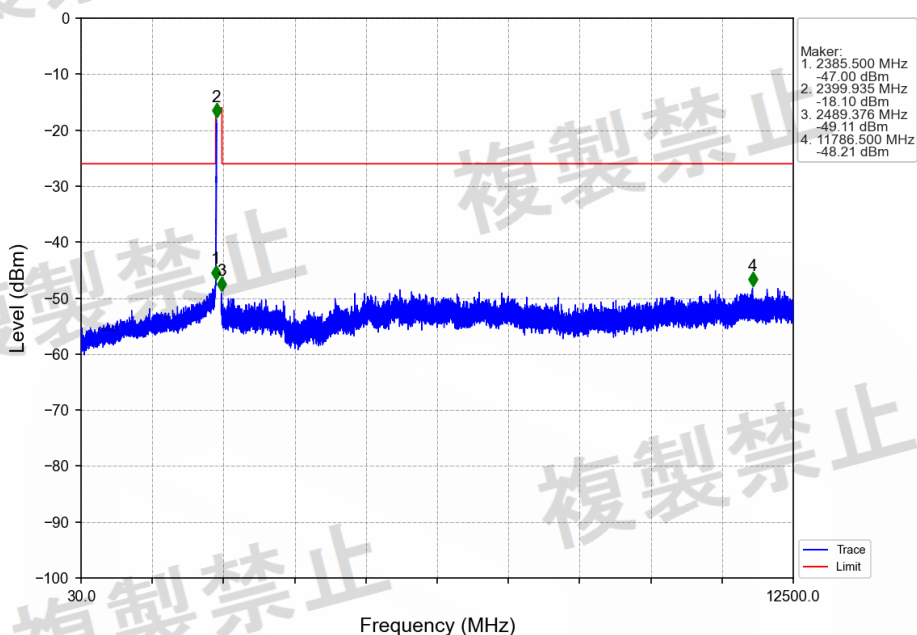


802.11g 2472MHz_Ant1 (SISO)_NTNV

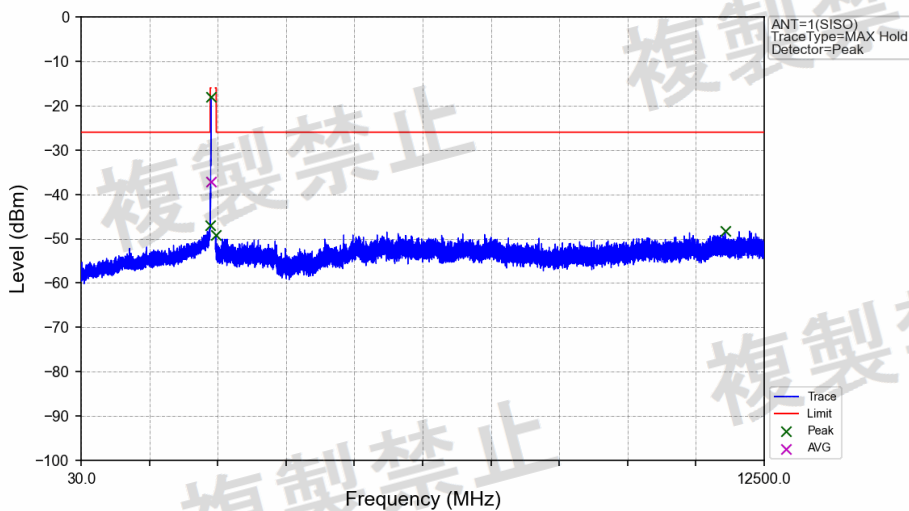


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2338.500	-48.91	/	-26	Pass
2387	2400	1	1	2395.112	-48.63	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-20.76	/	-16	Pass
2496.5	12500	1	1	11739.500	-47.62	/	-26	Pass

802.11n(HT20) 2412MHz Ant1 (SISO) NTN

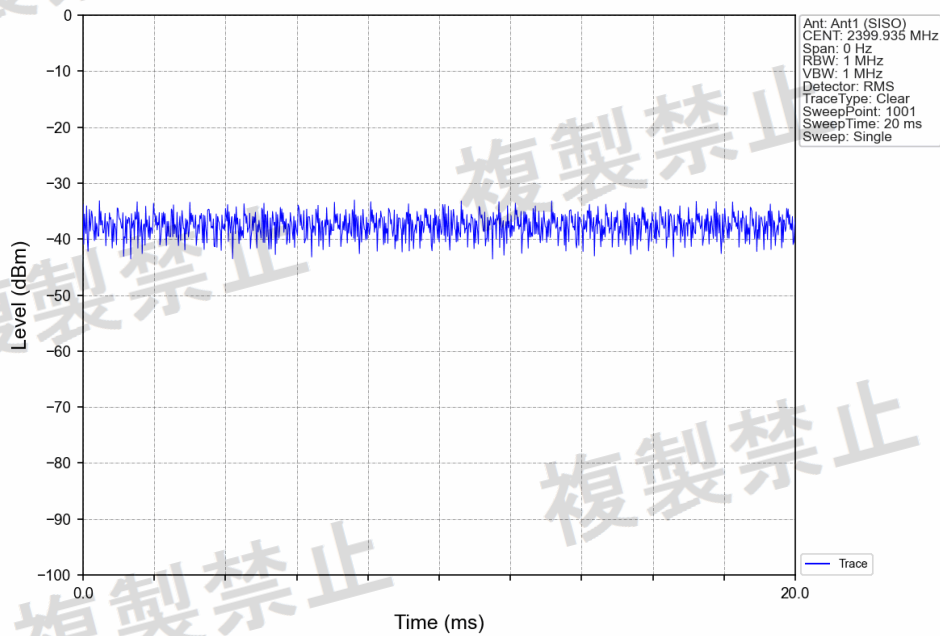


802.11n(HT20) 2412MHz Ant1 (SISO) NTN

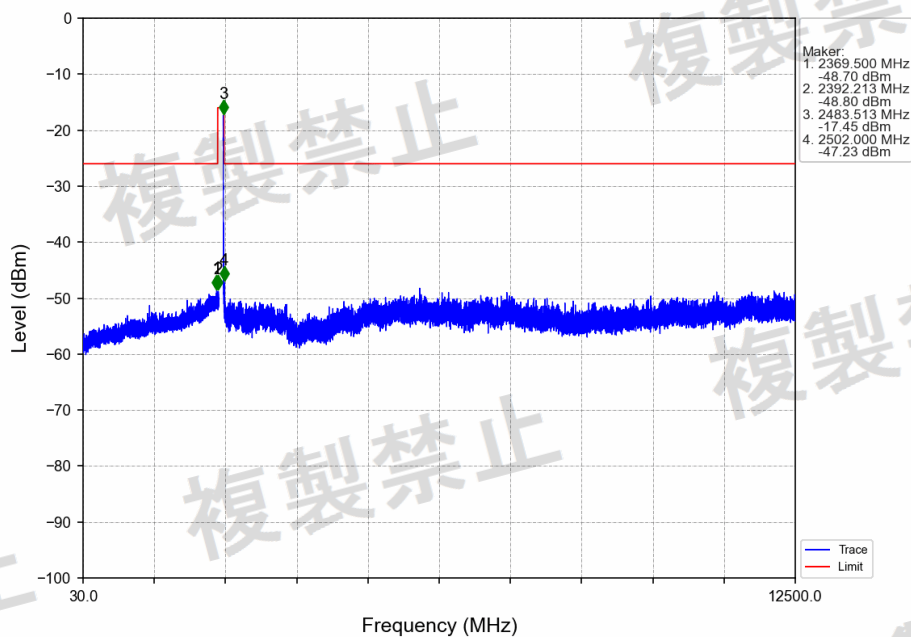


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-47.00	/	-26	Pass
2387	2400	1	1	2399.935	-18.10	-37.14	-16	Pass
2483.5	2496.5	1	1	2489.376	-49.11	/	-16	Pass
2496.5	12500	1	1	11786.500	-48.21	/	-26	Pass

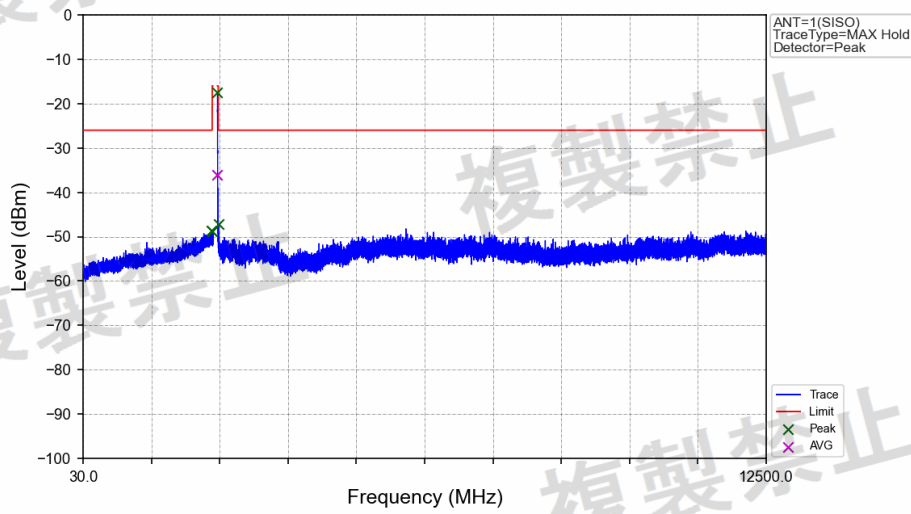
802.11n(HT20) 2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20) 2472MHz_Ant1 (SISO)_NTNV

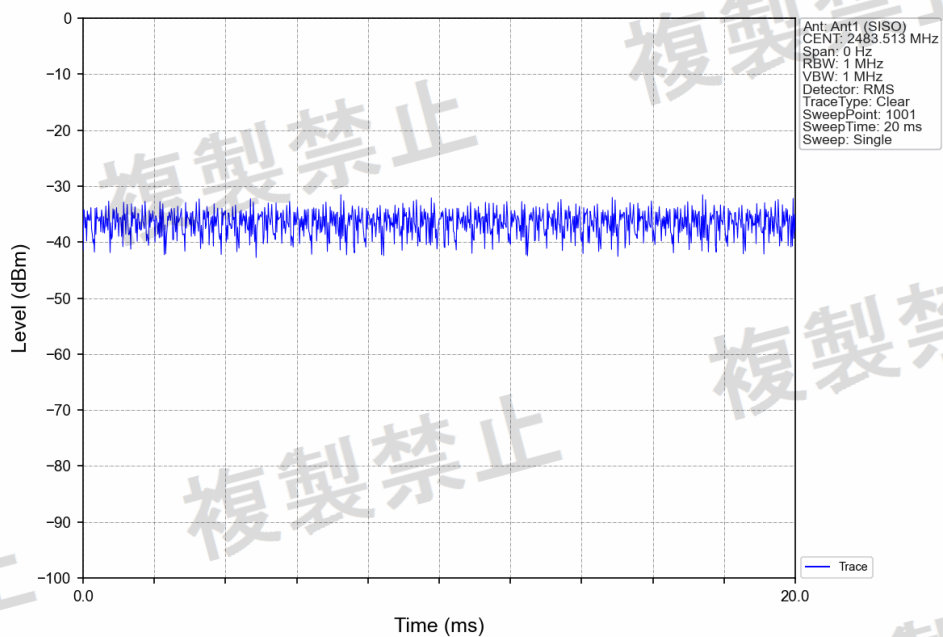


802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

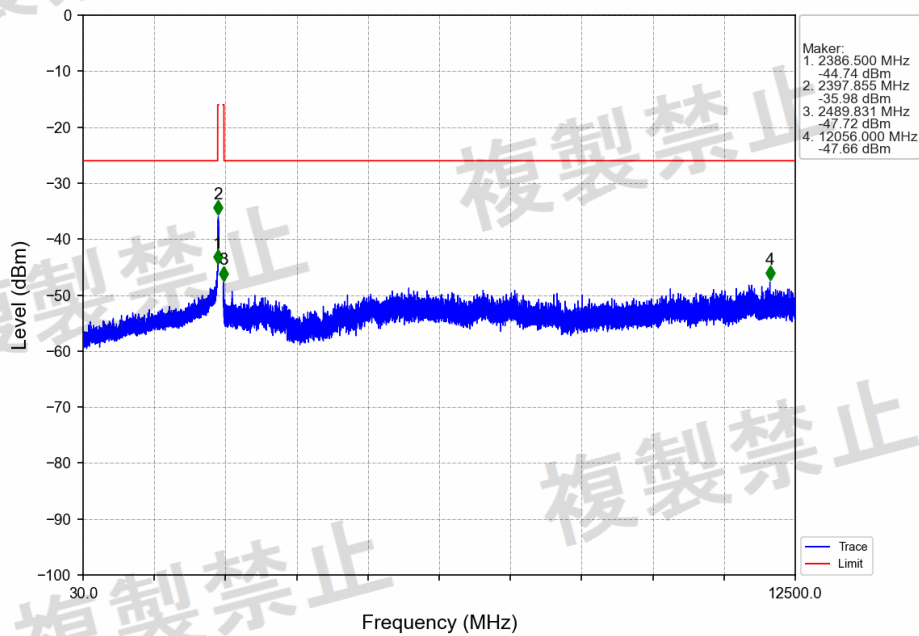


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2369.500	-48.70	/	-26	Pass
2387	2400	1	1	2392.213	-48.80	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-17.45	-36.09	-16	Pass
2496.5	12500	1	1	2502.000	-47.23	/	-26	Pass

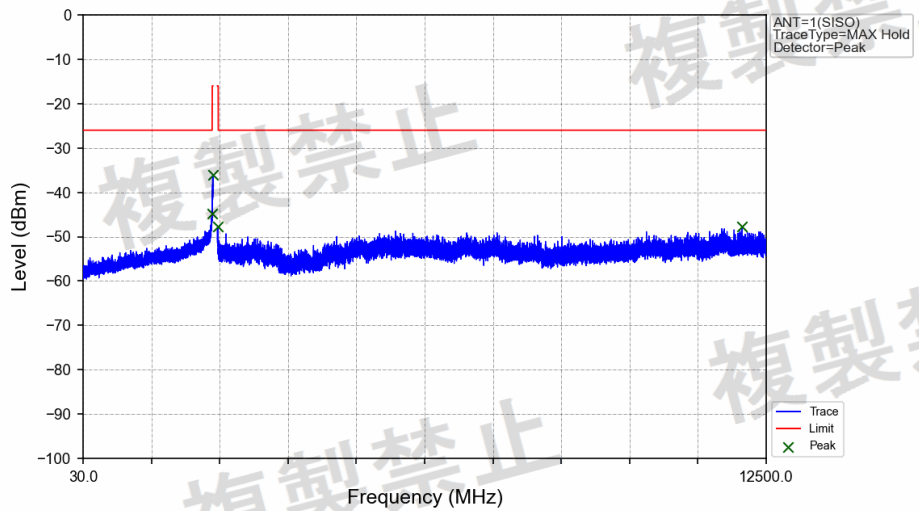
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT40) 2422MHz Ant1 (SISO) NTNV

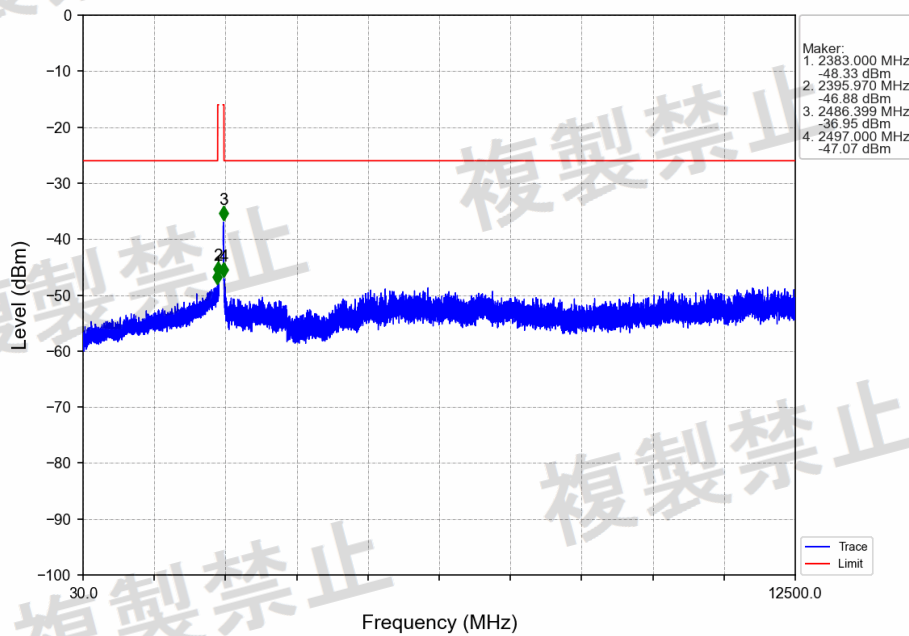


802.11n(HT40) 2422MHz Ant1 (SISO) NTNV

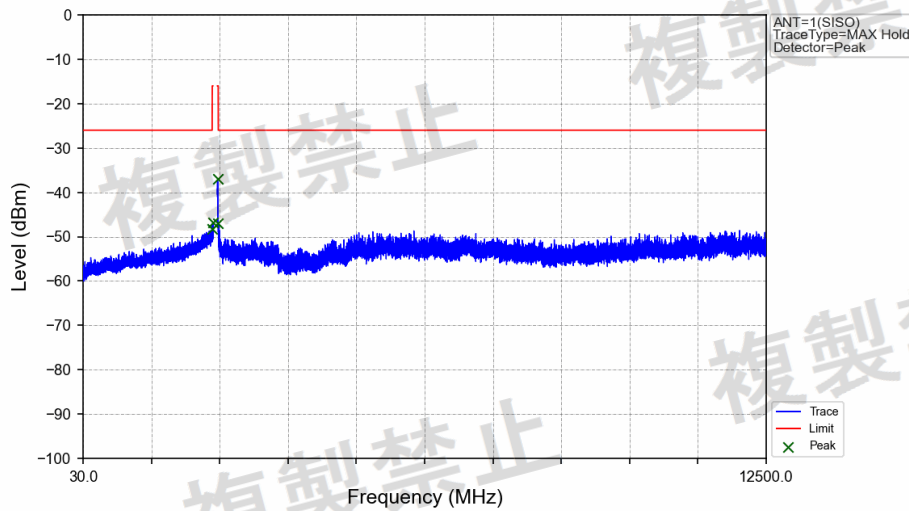


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-44.74	/	-26	Pass
2387	2400	1	1	2397.855	-35.98	/	-16	Pass
2483.5	2496.5	1	1	2489.831	-47.72	/	-16	Pass
2496.5	12500	1	1	12056.000	-47.66	/	-26	Pass

802.11n(HT40) 2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40) 2462MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2383.000	-48.33	/	-26	Pass
2387	2400	1	1	2395.970	-46.88	/	-16	Pass
2483.5	2496.5	1	1	2486.399	-36.95	/	-16	Pass
2496.5	12500	1	1	2497.000	-47.07	/	-26	Pass

5. Secondary Radiated Emission

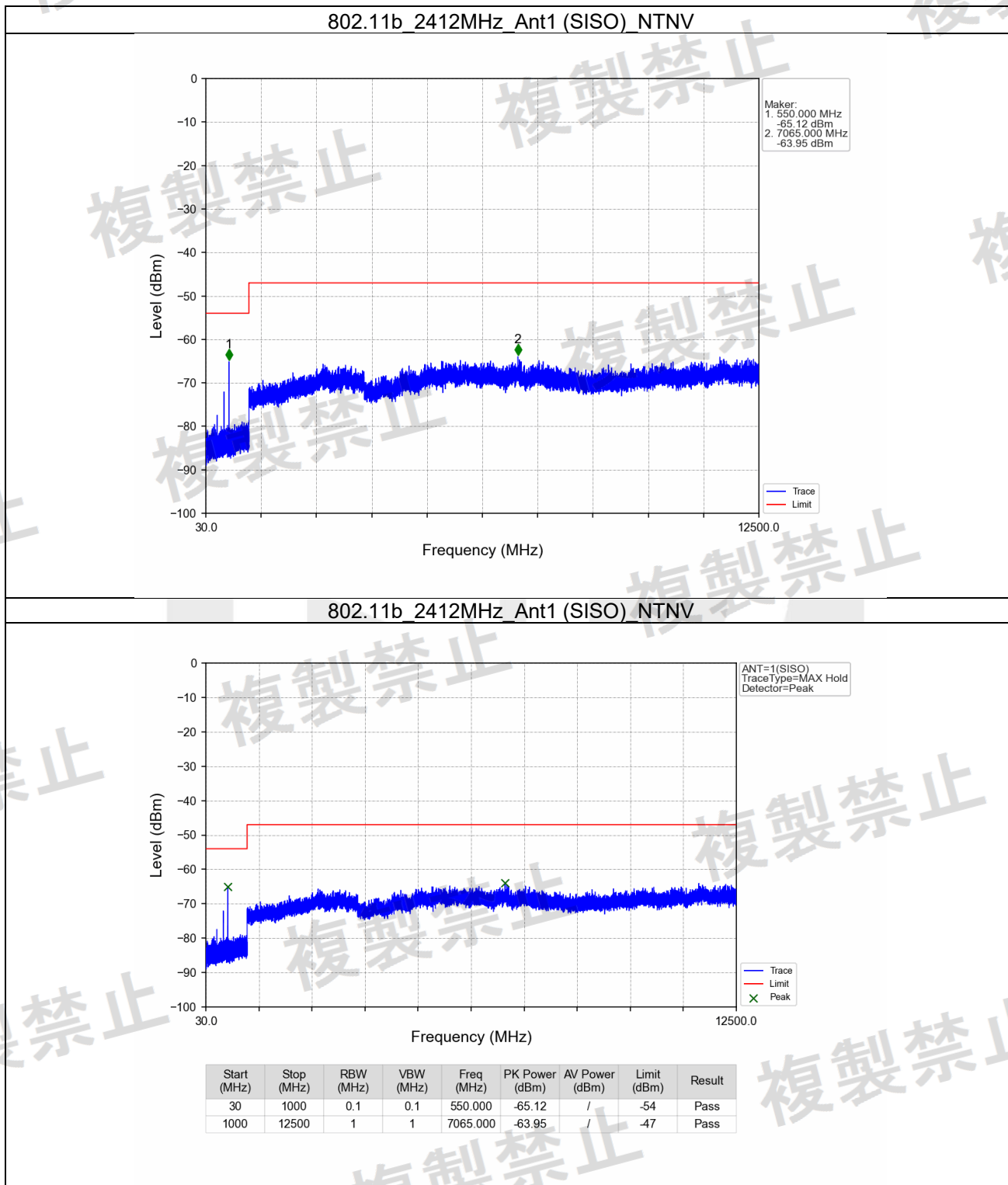
5.1 Test Result

5.1.1 RxSe_NTNV

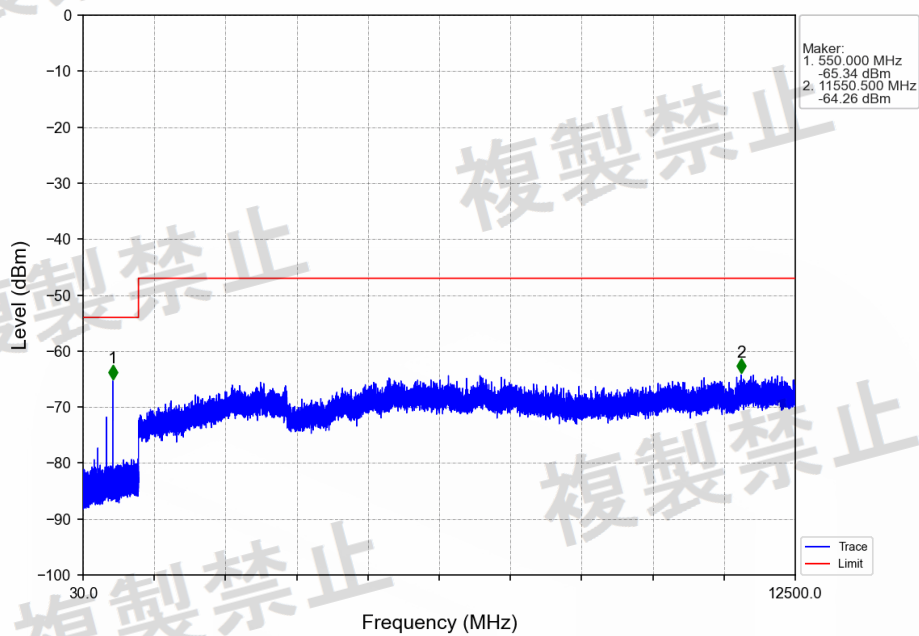
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	1	30	1000	550	-65.12	0.308	/	/	4	Pass
				1000	12500	7065	-63.95	0.403	/	/	20	Pass
		2472	1	30	1000	550	-65.34	0.292	/	/	4	Pass
				1000	12500	11550.5	-64.26	0.375	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	550	-64.81	0.330	/	/	4	Pass
				1000	12500	2426.5	-58.86	1.300	/	/	20	Pass
		2472	1	30	1000	550	-64.88	0.325	/	/	4	Pass
				1000	12500	5227	-63.29	0.469	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	550	-64.69	0.340	/	/	4	Pass
				1000	12500	11669	-63.73	0.424	/	/	20	Pass
		2472	1	30	1000	550	-64.69	0.340	/	/	4	Pass
				1000	12500	6026	-64.18	0.382	/	/	20	Pass
802.11n (HT40)	SISO	2422	1	30	1000	550	-64.75	0.335	/	/	4	Pass
				1000	12500	11081.5	-64.03	0.395	/	/	20	Pass
		2462	1	30	1000	550	-64.77	0.333	/	/	4	Pass
				1000	12500	11604	-64.27	0.374	/	/	20	Pass

5.2 Test Graph

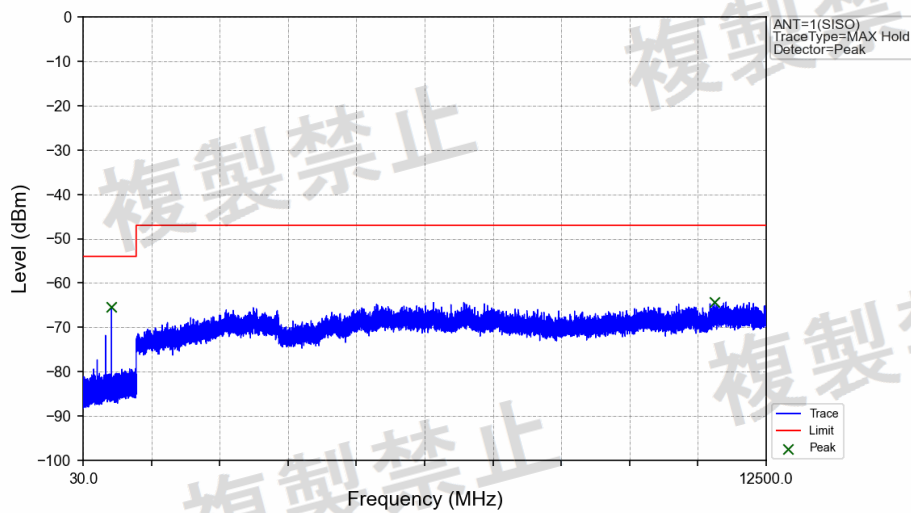
5.2.1 RxSe_NTNV



802.11b 2472MHz_Ant1 (SISO)_NTNV

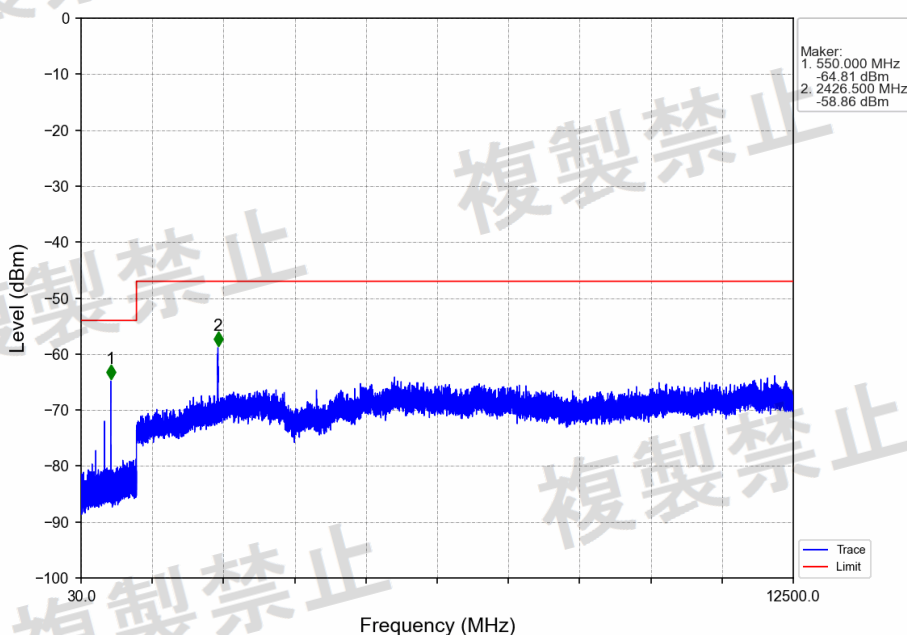


802.11b 2472MHz_Ant1 (SISO)_NTNV

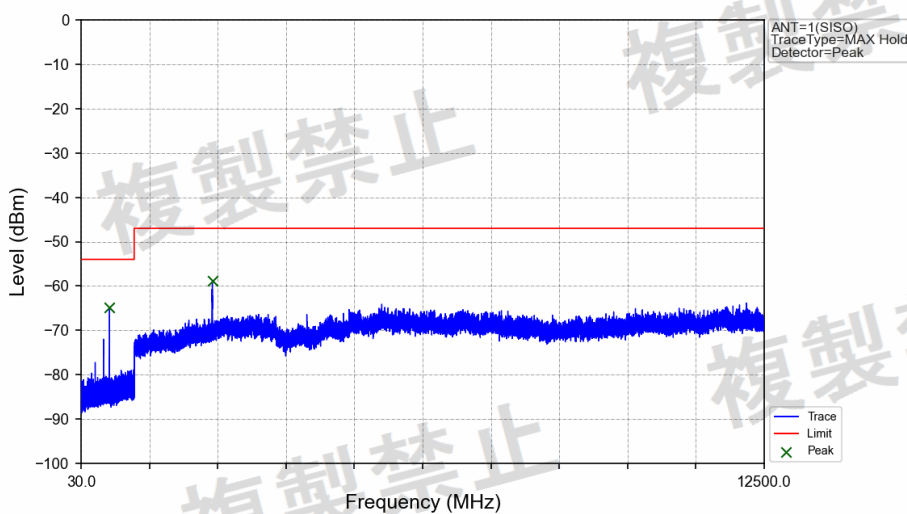


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-65.34	/	-54	Pass
1000	12500	1	1	11550.500	-64.26	/	-47	Pass

802.11g_2412MHz_Ant1 (SISO)_NTNV

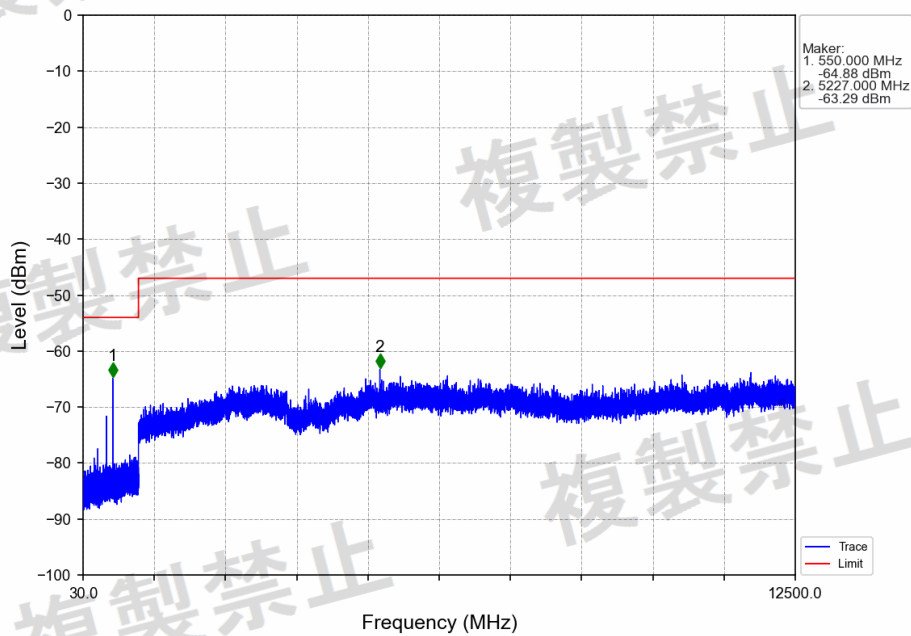


802.11g_2412MHz_Ant1 (SISO)_NTNV

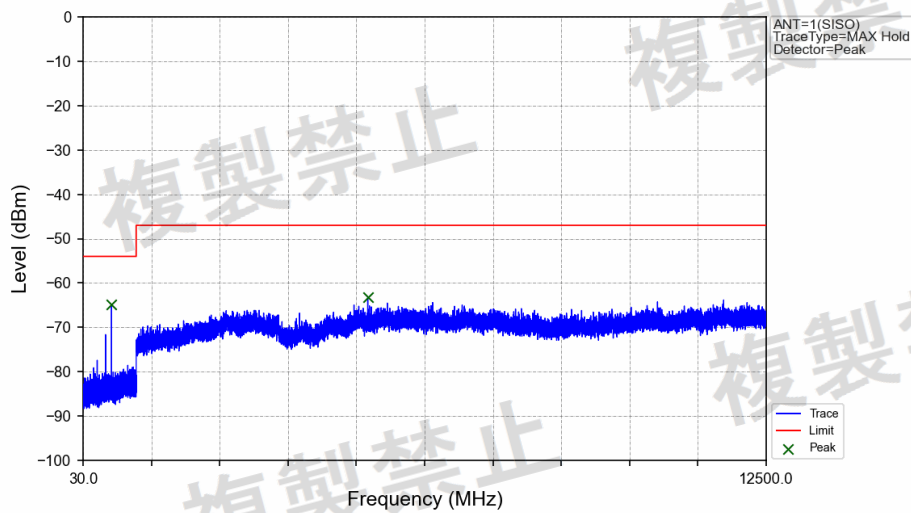


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.81	/	-54	Pass
1000	12500	1	1	2426.500	-58.86	/	-47	Pass

802.11g_2472MHz_Ant1 (SISO)_NTNV

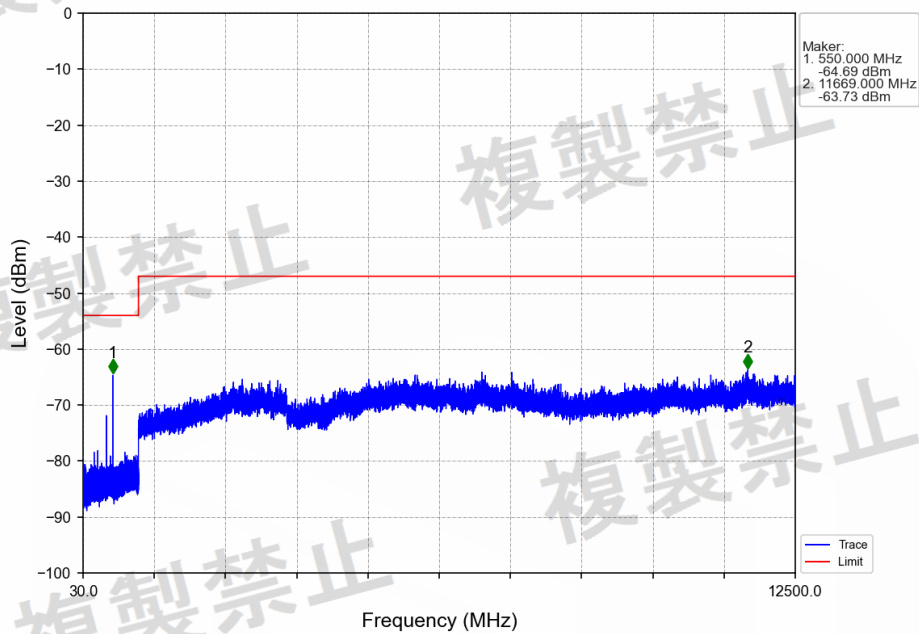


802.11g_2472MHz_Ant1 (SISO)_NTNV

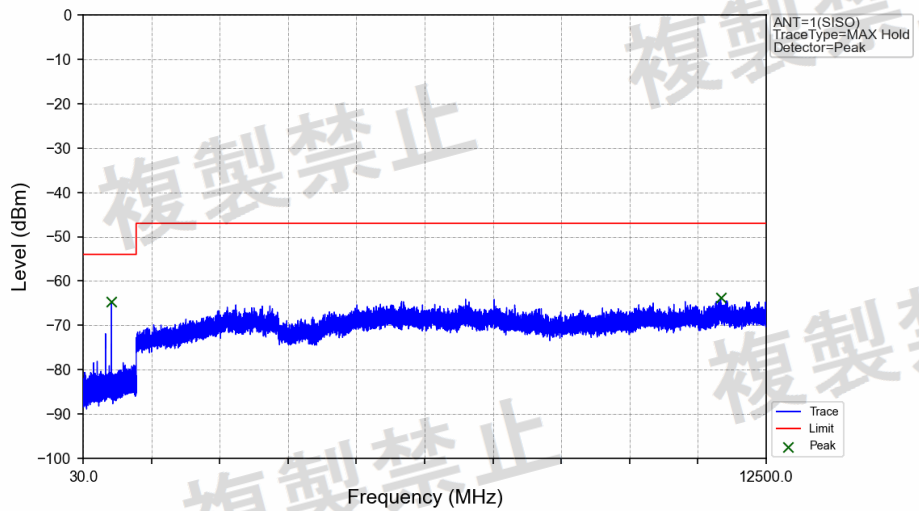


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.88	/	-54	Pass
1000	12500	1	1	5227.000	-63.29	/	-47	Pass

802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

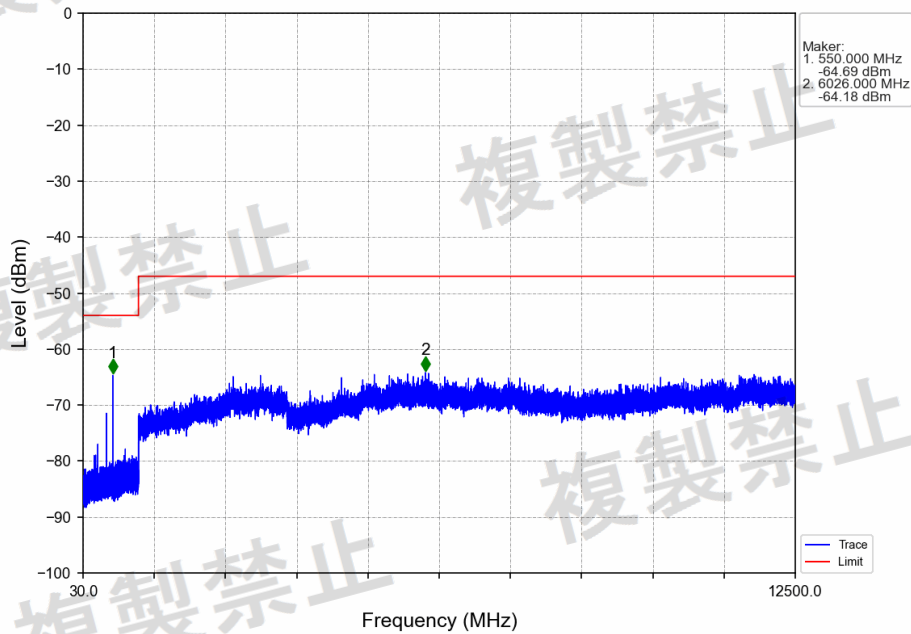


802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

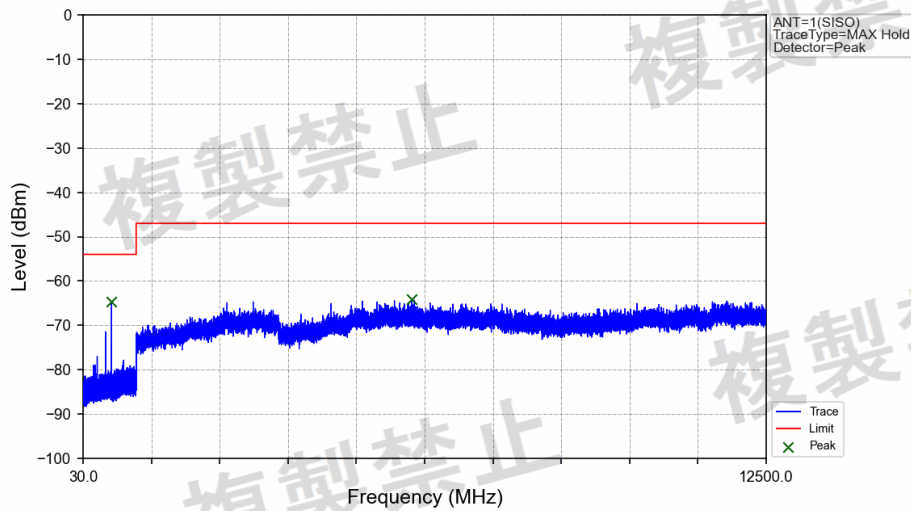


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.69	/	-54	Pass
1000	12500	1	1	11669.000	-63.73	/	-47	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

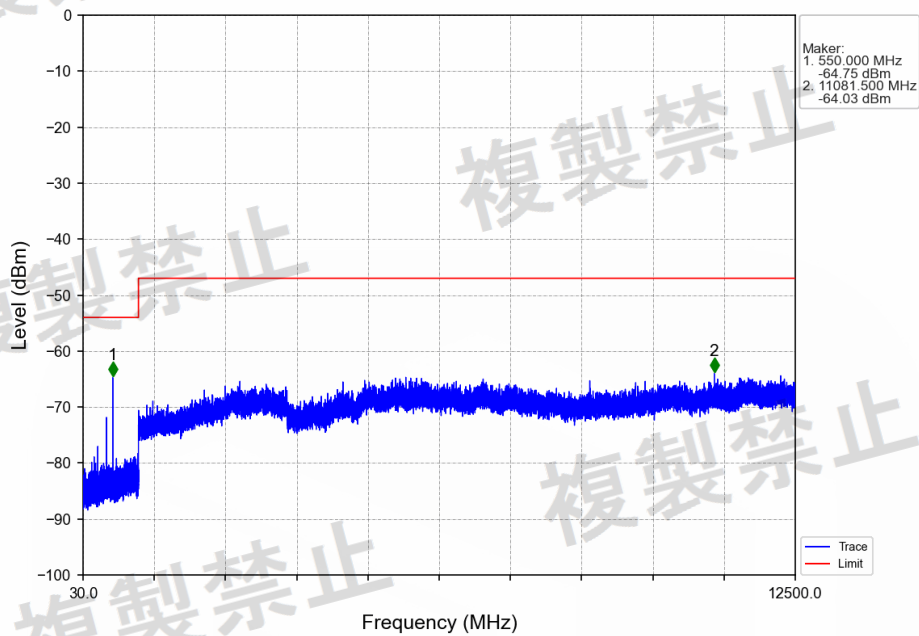


802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

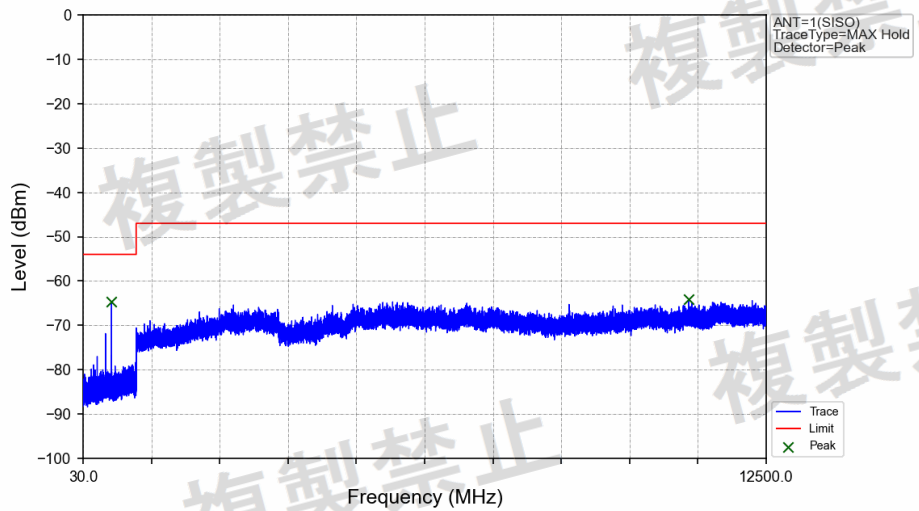


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.69	/	-54	Pass
1000	12500	1	1	6026.000	-64.18	/	-47	Pass

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV

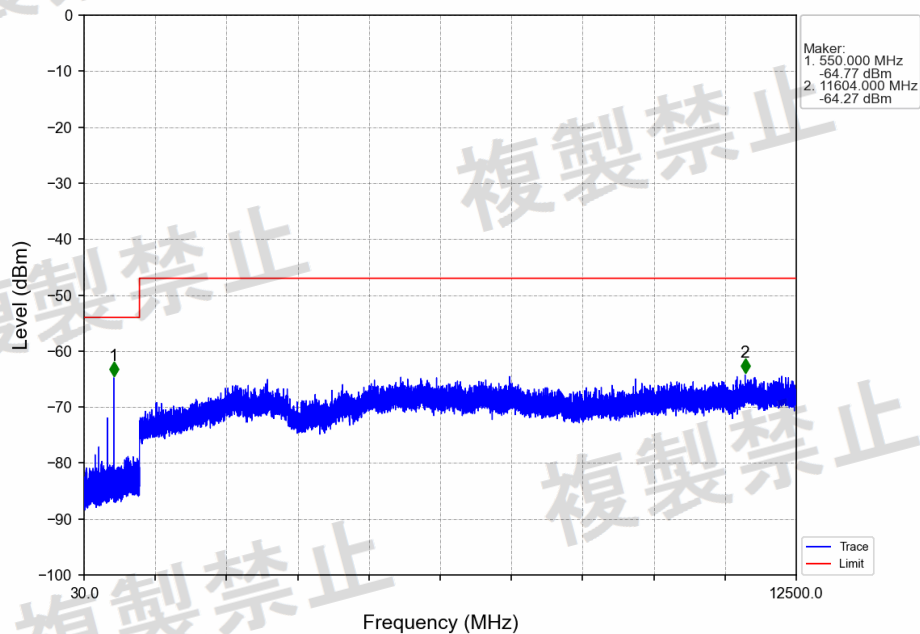


802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV

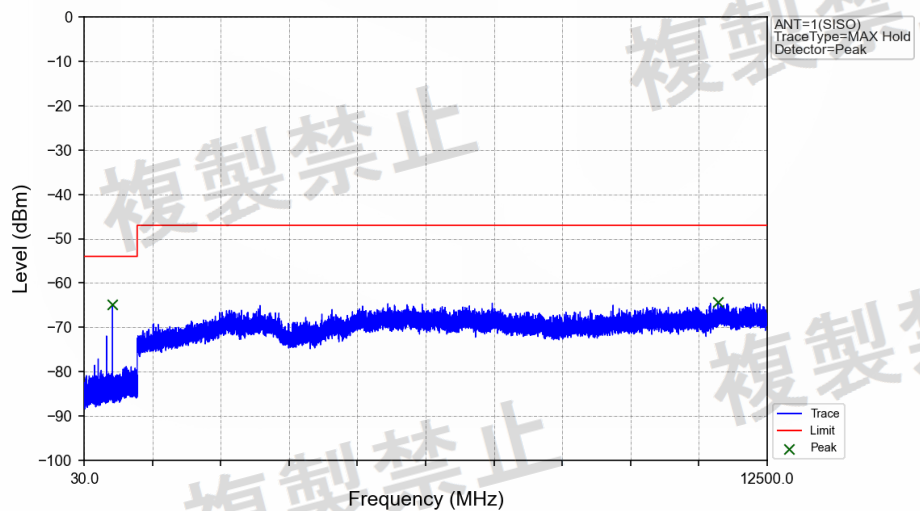


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.75	/	-54	Pass
1000	12500	1	1	11081.500	-64.03	/	-47	Pass

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-64.77	/	-54	Pass
1000	12500	1	1	11604.000	-64.27	/	-47	Pass

STATEMENT

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--- End of Report ---