

TEST REPORT

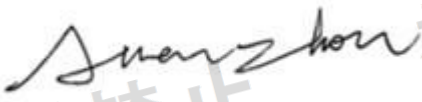
Application No.: GZCR2601000059AT
Applicant: Huawei Technologies Co., Ltd.
Address of Applicant: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, 518129 Shenzhen, Guangdong, China
Manufacturer: Huawei Technologies Co., Ltd.
Address of Manufacturer: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, 518129 Shenzhen, Guangdong, China
Factory: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Factory: Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China
EUT Name: Body Fat Scale
Model No.: HAG-B19
Standard(s) : MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2022-04-11
Date of Test: 2022-04-13
Date of Issue: 2026-02-26

Test Result:**Pass***

* In the configuration tested, the EUT complied with the standards specified above.



Revision Record			
Version	Report No.	Date	Remark
01	GZCR220400038302	2022-04-15	Original
02	GZCR220400038304	2026-02-26	Amendment report: Changed factory information and updated according to the comments of the certified body.

Authorized for issue by			
			
		Allen Zhou/Project Engineer	
Approved by			
			
		Jerry Chan/Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	MIC Item 19 of Article 2 Paragraph 1	N/A	MIC Item 19 of Article 2 Paragraph 1	Pass
Interference prevention capability		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
RF accessibility		N/A	MIC Item 19 of Article 2 Paragraph 1	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Frequency Error	MIC Item 19 of Article 2 Paragraph 1	MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Occupied Bandwidth(99%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spread spectrum Bandwidth(90%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Antenna Power		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spurious emission Intensity		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Limit of secondary radiated emissions		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark for report GZCR220400038304:

This report GZCR220400038304 is based on original report GZCR220400038302. Only changed factory information and updated according to the comments as below of the certified body.

1. Updated the equipment list in section 5 by adding company and standards of equipment calibration;
2. Updated the limit of test item Spread spectrum Bandwidth(90%) in section 7.3;
3. Updated the tolerance limit of test item Antenna Power in section 7.4;
4. Updated the test data of Spurious emission Intensity and Limit of secondary radiated emissions in appendix section 5 & 6.

Other test results in report GZCR220400038302 were kept in this report GZCR220400038304.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 4.5V=Size "AA" battery x 3
Cable(s):	N/A
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 13
Antenna Type:	FPC Antenna
Antenna Gain:	-0.47 dBi declared by applicant.
Power Class:	>=10mW

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	25	DC 4.5V
Note:		
NV:Normal Voltage	LV:Low Extreme Test Voltage	HV:High Extreme Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature	HT:High Extreme Test Temperature

Operation Frequency each of channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz		
3	2422MHz	7	2442MHz	11	2462MHz		
4	2427MHz	8	2447MHz	12	2467MHz		

Using test software was control EUT work in continuous transmitter and receiver mode. And select test channel as below:

For 802.11b/g/n (HT20):

Channel	Frequency
The lowest channel (CH1)	2412MHz
The middle channel (CH7)	2442MHz
The highest channel (CH13)	2472MHz



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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	Lenovo Xiaoxinchao 5000	PF0TLJX7

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25 \text{ E-8}$
Occupied Bandwidth(99%)	$\pm 3\%$
Spread spectrum Bandwidth(90%)	$\pm 3\%$
Antenna Power	$\pm 0.75\text{dB}$
Spurious emission Intensity	$\pm 0.75\text{dB}$
Limit of secondary radiated emissions	$\pm 0.75\text{dB}$

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

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4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



5 Equipment List

Frequency Error								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

Occupied Bandwidth (99%)								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

Occupied Bandwidth (90%)								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

Antenna Power								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

Spurious emission Intensity								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

Limit of secondary radiated emissions								
Equipment	Manufacturer	Model No.	Inventory No.	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	1102099	2021-11-02	2022-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Keysight	N9010A	EMC2138	MY57120105	2021-09-20	2022-09-19	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	T2021.002	2021-08-30	2022-08-29	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A	Test Software

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Serial No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
DMM	Fluke	73	EMC0006	70681569	2021-07-05	2022-07-04	CEPREI	Article 24-2, Paragraph 4 of the Radio Act



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6 Radio Spectrum Technical Requirement

6.1 EUT Test Conditions

Power supply:

INPUT: DC 4.5V = size "AA" battery x 3. The RF unit supplied by 3.3 V.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$).
So, all measurements were conducted at rated voltage DC 4.5V.
The measurement result of the voltage fluctuation at RF circuit when DC 4.5V $\pm 10\%$.

Mains input	Measured value	Voltage Deviation
DC 4.50V	3.30V	0%
DC 4.50V	3.29V	-0.30%
DC 4.50V	3.29V	-0.30%

Temperature:

5.0 -35.0 °C

Humidity:

45-85 % RH

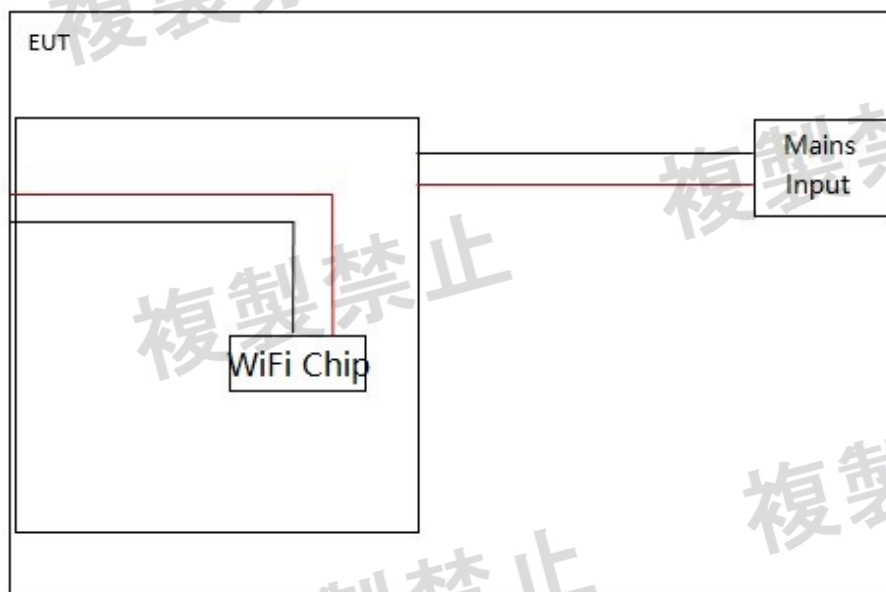
Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

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

6.1.1 Test Setup Diagram & test point



6.2 Antenna Requirement

6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.2.2 Conclusion

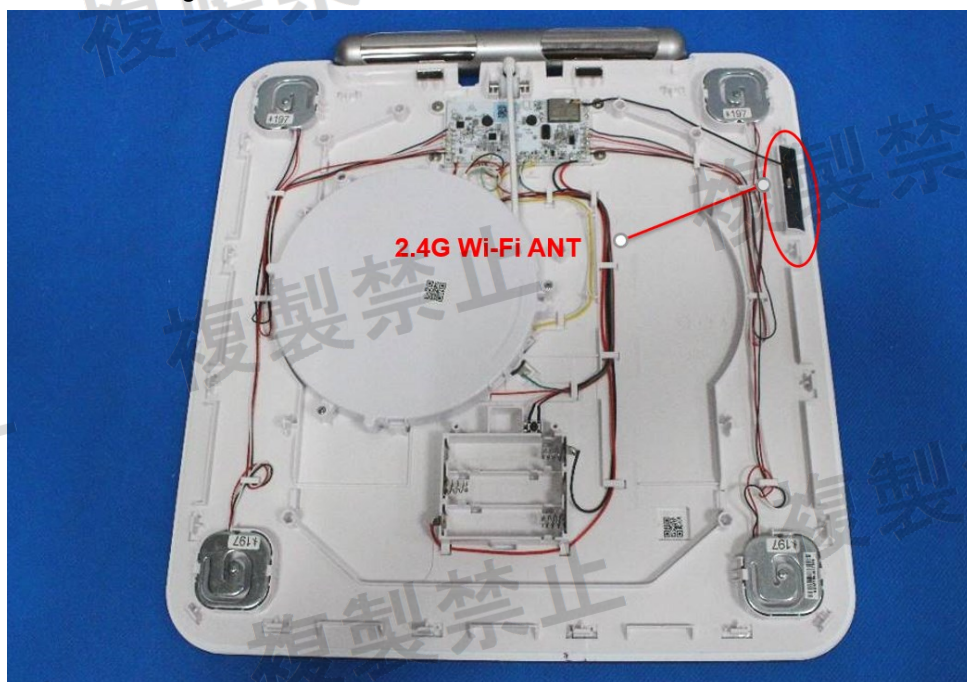
Standard requirement:

Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details:

The antenna is integrated on the main PCB and no consideration of replacement.

The best case gain of the antenna is -0.47 dBi.



Result:

An antenna connector is available, all relevant tests will be carried out conducted.



6.3 Interference prevention capability

6.3.1 Test Requirement:

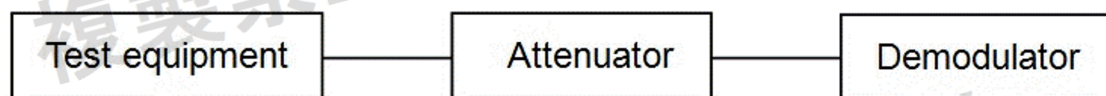
MIC Item 19 of Article 2 Paragraph 1

Limit:

Article 2, Item (19) Notice 88 Appendix 43, 44, 45

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.

6.3.2 Test Setup Diagram



6.3.3 Conclusion

Standard Requirement:

1) Measurement system diagram as shown above and test equipment keep transmitting identification code.

2) Condition of measuring instrument

(1) 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

(1) 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.

The unit have been paired before sales in the market, and the user can not pair by themselves.



EUT Details:

The unit does meet the requirements (Good).



6.4 RF accessibility

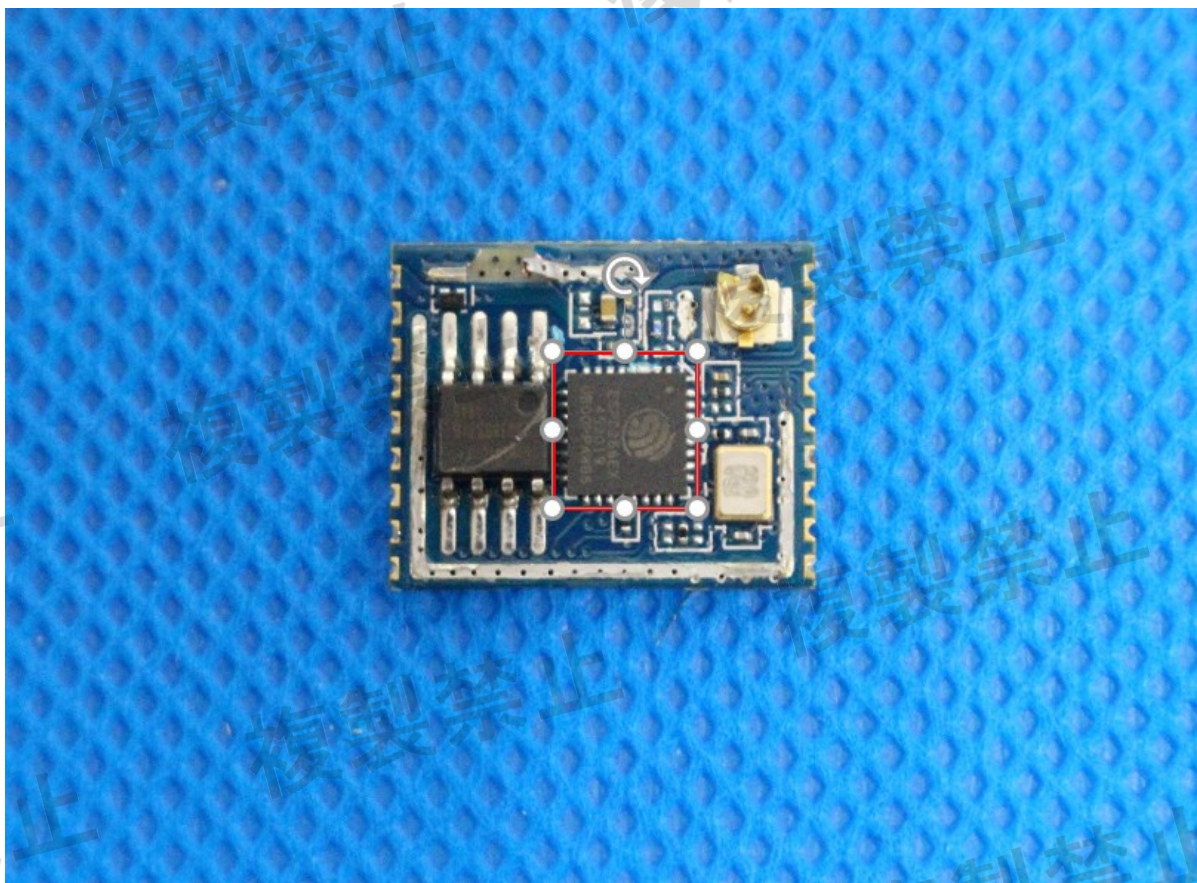
6.4.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.4.2 Conclusion

Standard Requirement:

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.



EUT Details:

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.



7 Radio Spectrum Matter Test Results

7.1 Frequency Error

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	Tolerance of frequency: $\pm 50\text{E-6}$

7.1.1 E.U.T. Operation

Operating Environment:

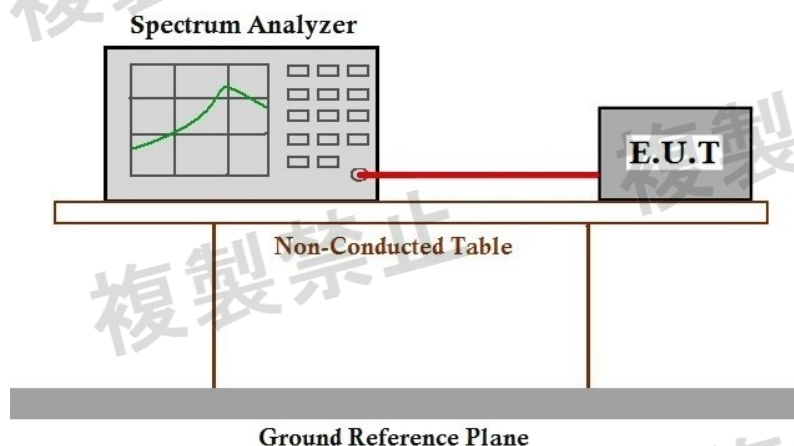
Temperature: 24.1 °C Humidity: 66.0 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.
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7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



7.2 Occupied Bandwidth(99%)

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	FH: 83.5MHz or less FH + DS: 83.5MHz or less FH + OFDM: 83.5MHz or less OFDM: 38MHz or less DS: 26MHz or less Others: 26MHz or less

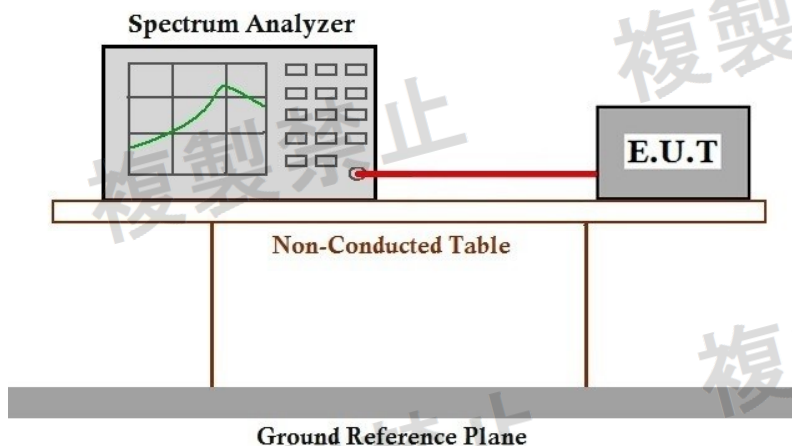
7.2.1 E.U.T. Operation

Operating Environment:	
Temperature:	24.1 °C
Humidity:	66.0 % RH
Atmospheric Pressure:	1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

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

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS); 2-5 times OBW (Others)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3% OBW (Others)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3 times RBW (Others)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 99%

Please Refer to Appendix for Details



7.3 Spread spectrum Bandwidth(90%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit: /

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

Humidity: 66.0 % RH

Atmospheric Pressure: 1020 mbar

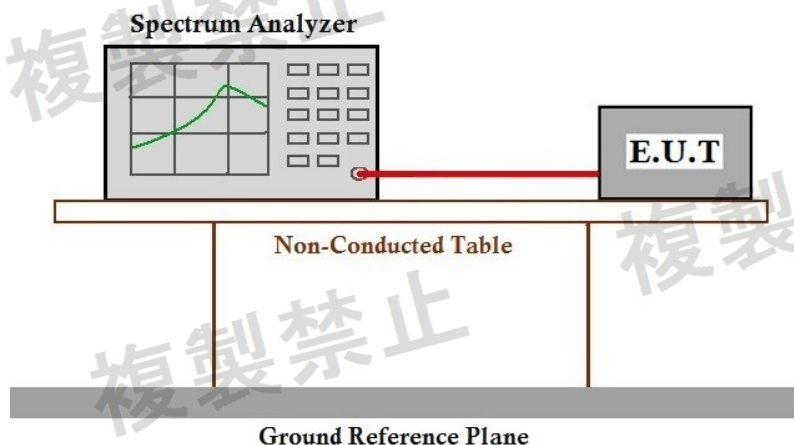
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	02	
------------	----	--

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

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

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 90%

Please Refer to Appendix for Details



7.4 Antenna Power

Test Requirement

MIC Item 19 of Article 2 Paragraph 1

Test Method:

MIC Notice No.88 Appendix No.43

Limit:

Designated value

- (1) FH, FH+DS, FH+OFDM: 3mW/MHz
(used in the range of 2427 - 2470.75 MHz)
 - (2) OFDM, DS other than (1) 10mW/MHz
 - (3) Other than (1) & (2) 10mW
 - (4) OFDM OBW 26 - 38MHz: 5mW/MHz
- Tolerance: ≤20%

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

Humidity: 66.0 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan /
Final test

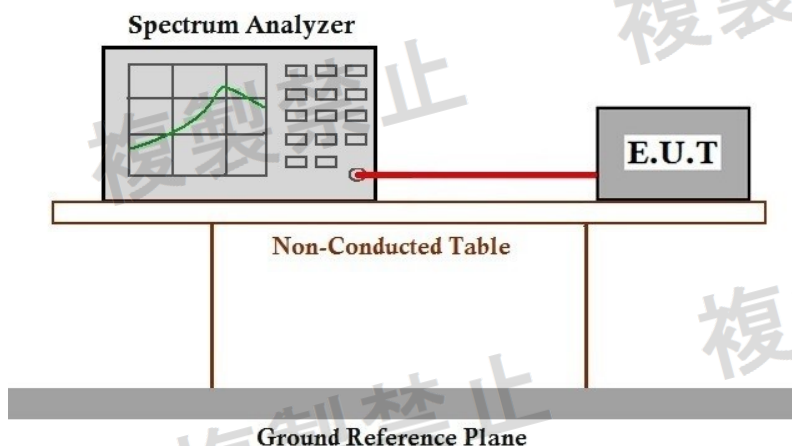
Mode
Code

Description

Final test 02

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

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

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 25 MHz(FHSS); 40/60 MHz (OFDM; DSSS); Enough to capture the emission (Others)

RBW 1 MHz (FHSS; OFDM; DSSS); More than OBW (Others)

VBW 1 MHz (FHSS; OFDM; DSSS); More than RBW (Others)

Sweep Time Auto

detector mode RMS

Indication mode Max hold

Please Refer to Appendix for Details



7.5 Spurious emission Intensity

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	(1) Below 2387 MHz: 2.5μW/MHz (2) 2387 to 2400 MHz: 25μW/MHz (3) 2483.5 through 2496.5 MHz: 25μW/MHz (4) Over 2496.5 MHz: 2.5μW/MHz

7.5.1 E.U.T. Operation

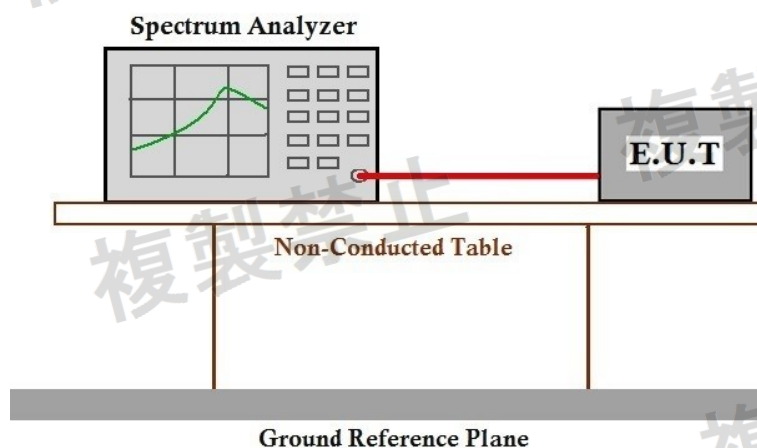
Operating Environment:

Temperature: 24.1 °C Humidity: 66.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, , Modulation Tx

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 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 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

Please Refer to Appendix for Details



7.6 Limit of secondary radiated emissions

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	(1) Below 1 GHz: 4 nW or less (2) 1 GHz and over: 20 nW or less

7.6.1 E.U.T. Operation

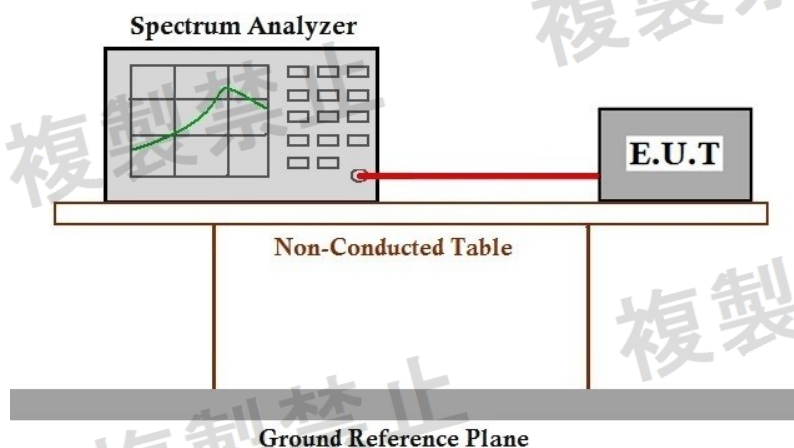
Operating Environment:

Temperature: 24.1 °C Humidity: 66.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	RX mode_Keep the EUT in receiving mode. Only the 20MHz channel plan was tested and recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

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

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 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

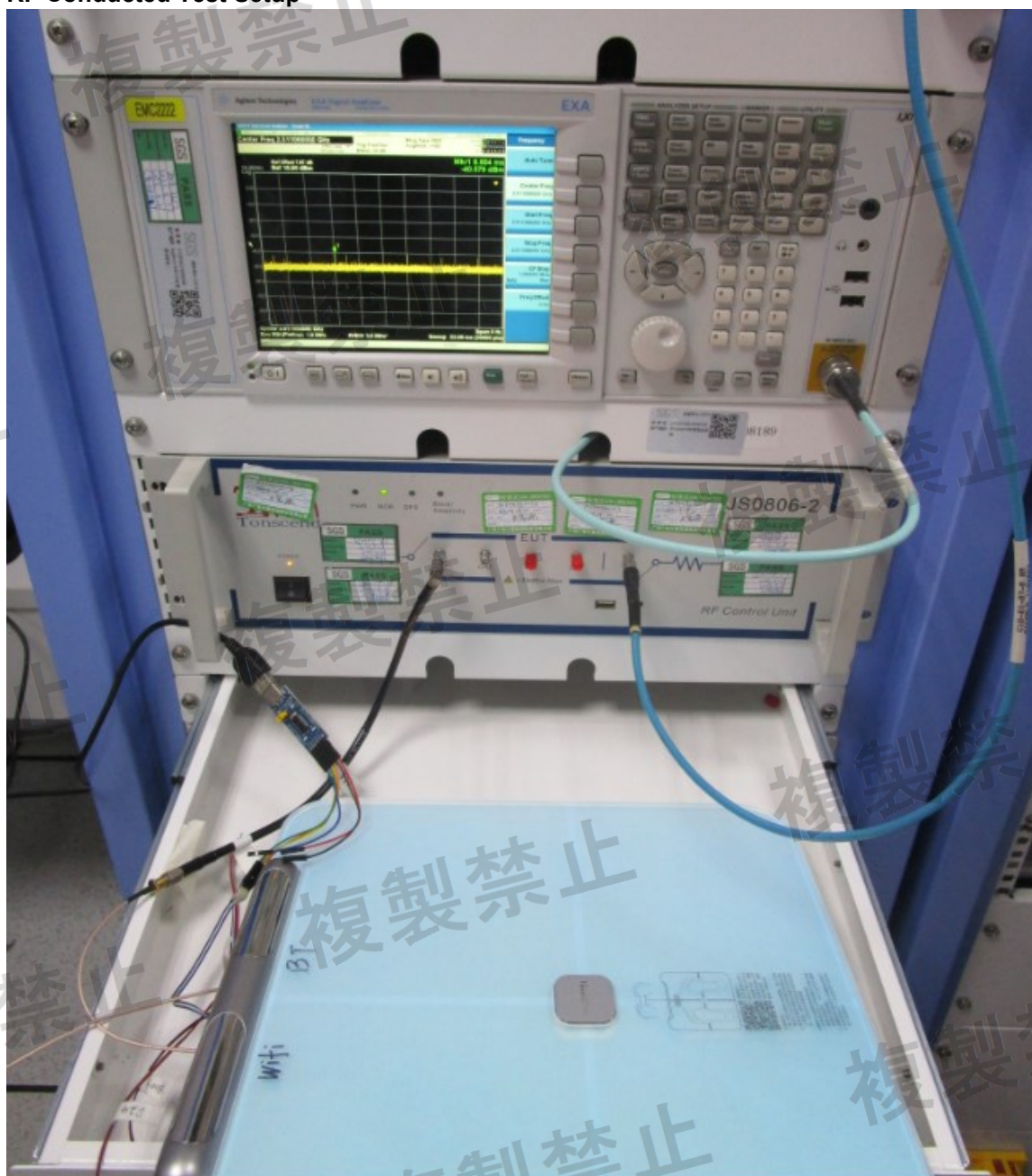
Indication mode Max hold

Please Refer to Appendix for Details



8 Test Setup Photo

RF Conducted Test Setup



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2601000059AT.



10 Appendix

1. Frequency Error

1.1 Ant1

1.1.1 Test Result

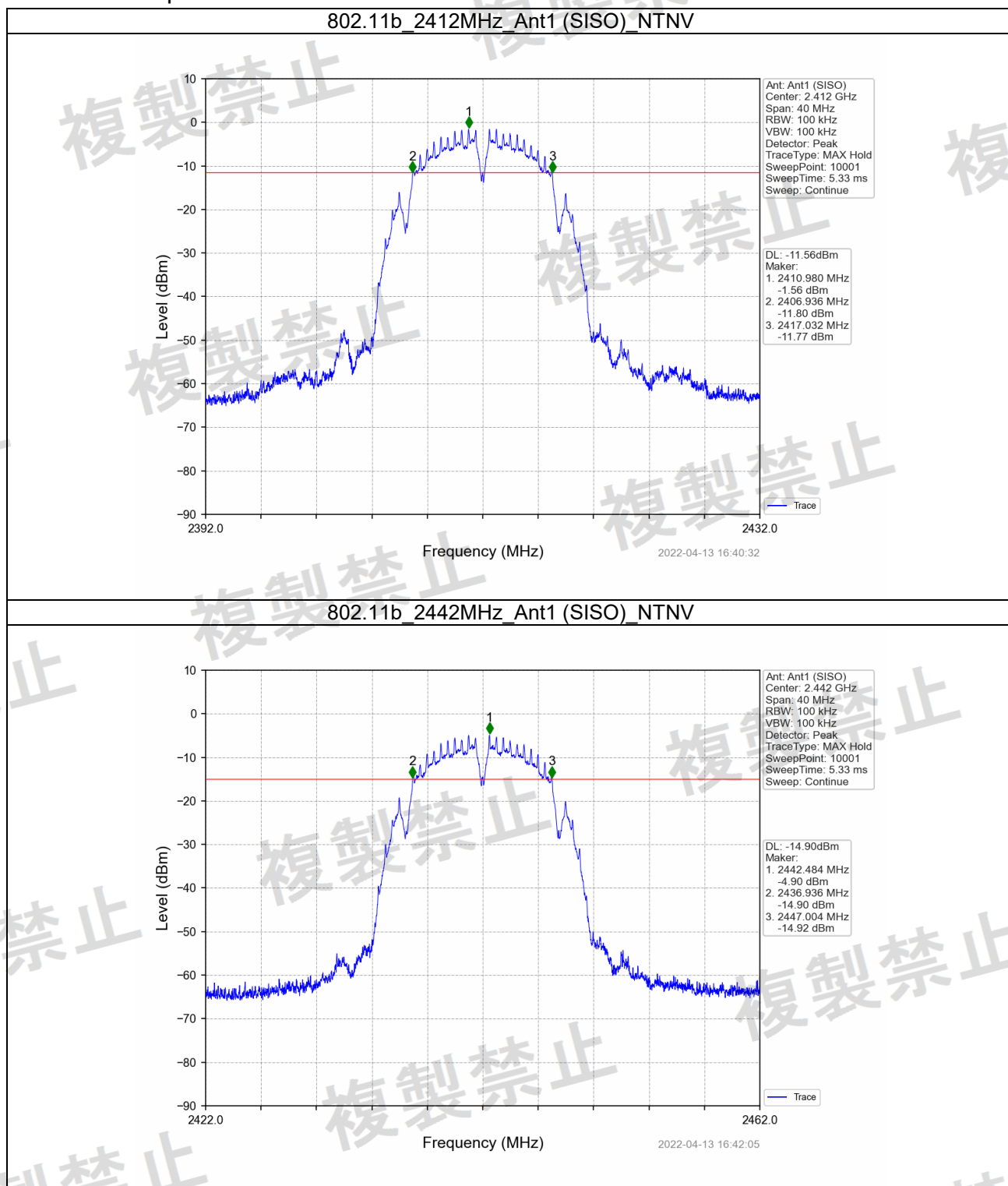
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	802.11b	SISO	2412	2411.984	-6.63	-50 to 50	Pass
			2442	2441.970	-12.29	-50 to 50	Pass
			2472	2471.982	-7.28	-50 to 50	Pass
	802.11g	SISO	2412	2411.984	-6.63	-50 to 50	Pass
			2442	2441.992	-3.28	-50 to 50	Pass
			2472	2471.984	-6.47	-50 to 50	Pass
	802.11n (HT20)	SISO	2412	2411.980	-8.29	-50 to 50	Pass
			2442	2441.972	-11.47	-50 to 50	Pass
			2472	2471.970	-12.14	-50 to 50	Pass

* Measured Frequency (MHz)=(F₂+F₃)/2

** F₂、F₃: -10 dBc point



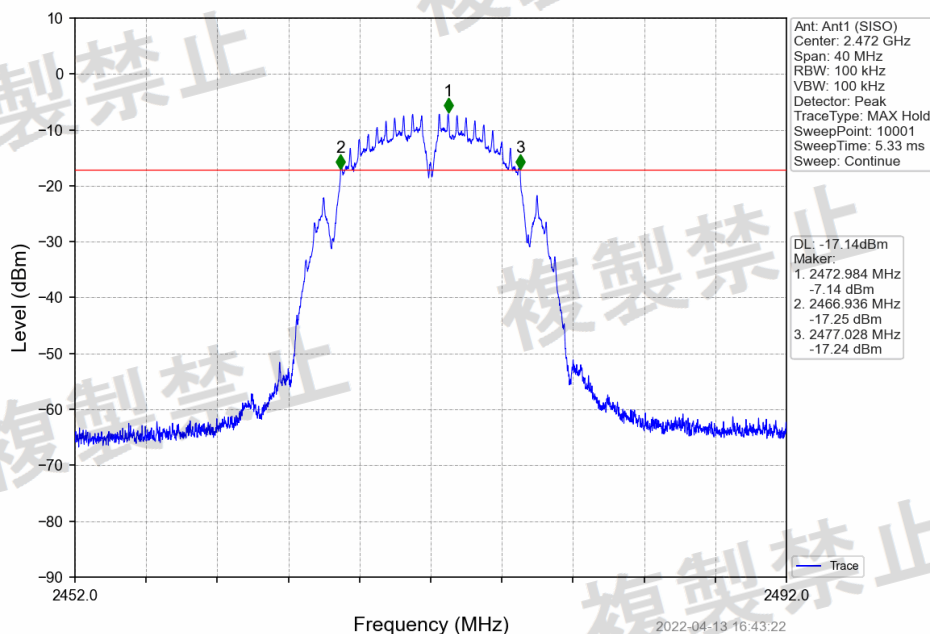
1.1.2 Test Graph



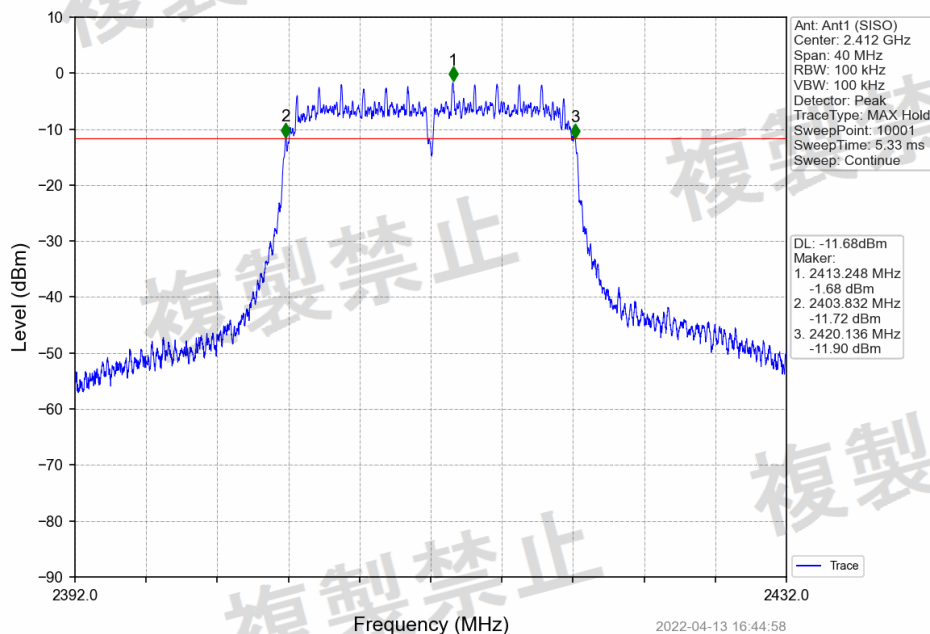
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802.11b_2472MHz_Ant1 (SISO) NTN



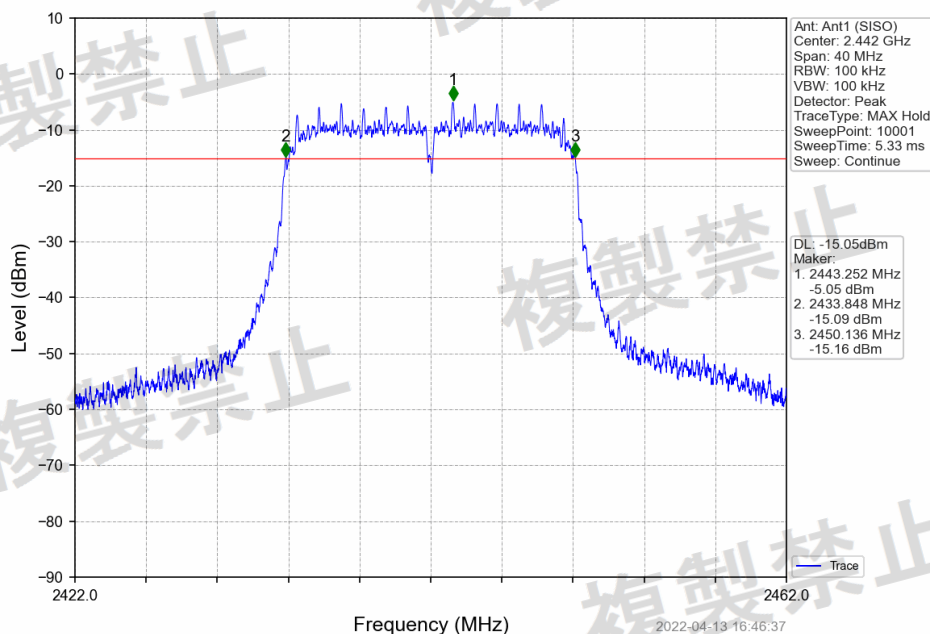
802.11g_2412MHz_Ant1 (SISO) NTN



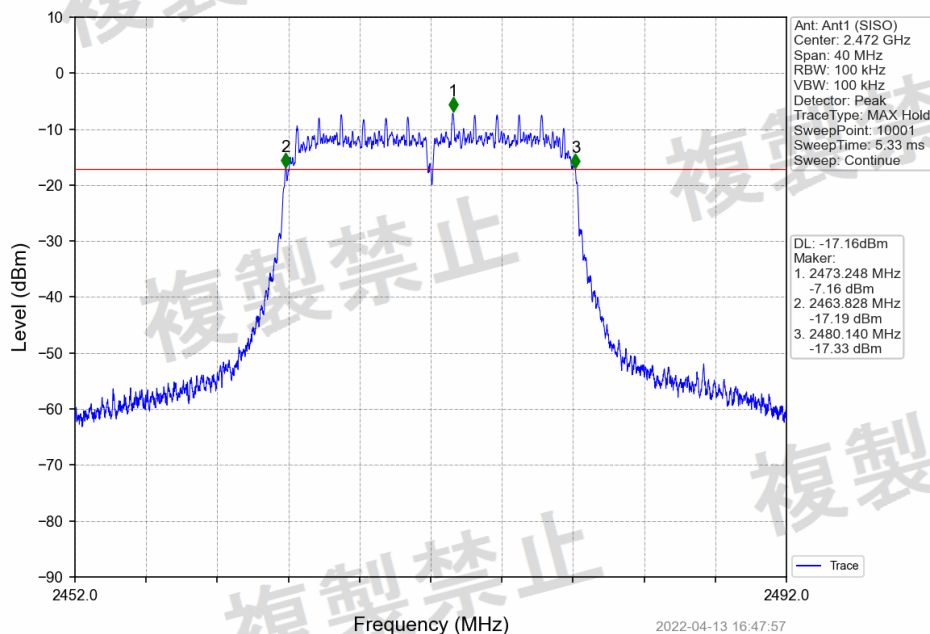
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802.11g_2442MHz_Ant1 (SISO) NTN



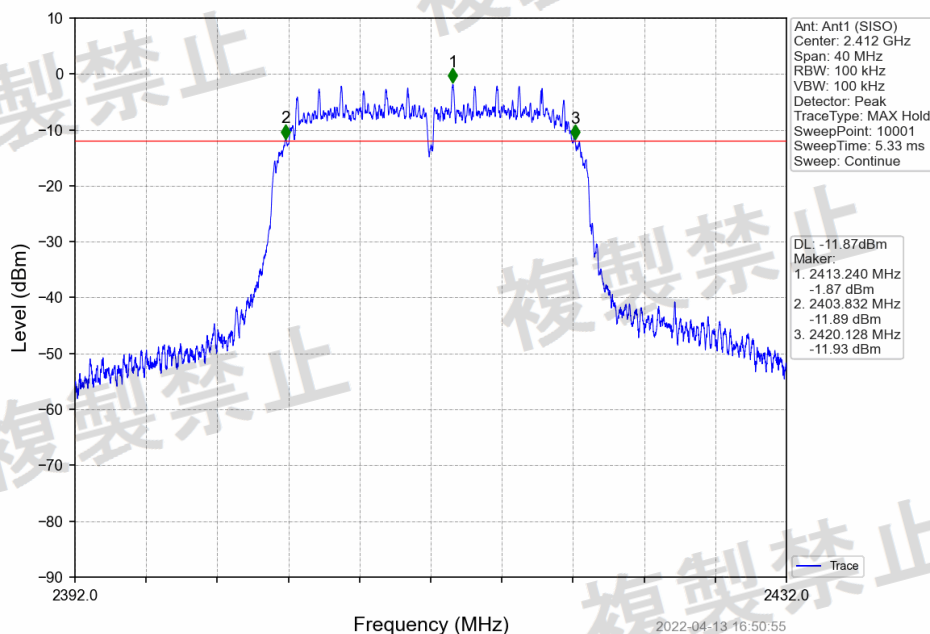
802.11g_2472MHz_Ant1 (SISO) NTN



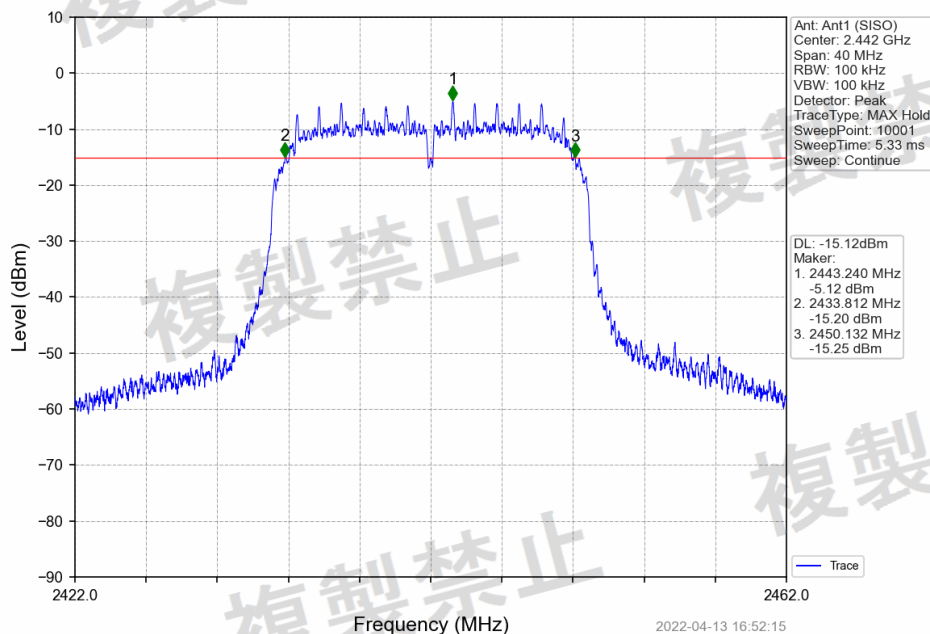
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802.11n(HT20) 2412MHz Ant1 (SISO) NTNV



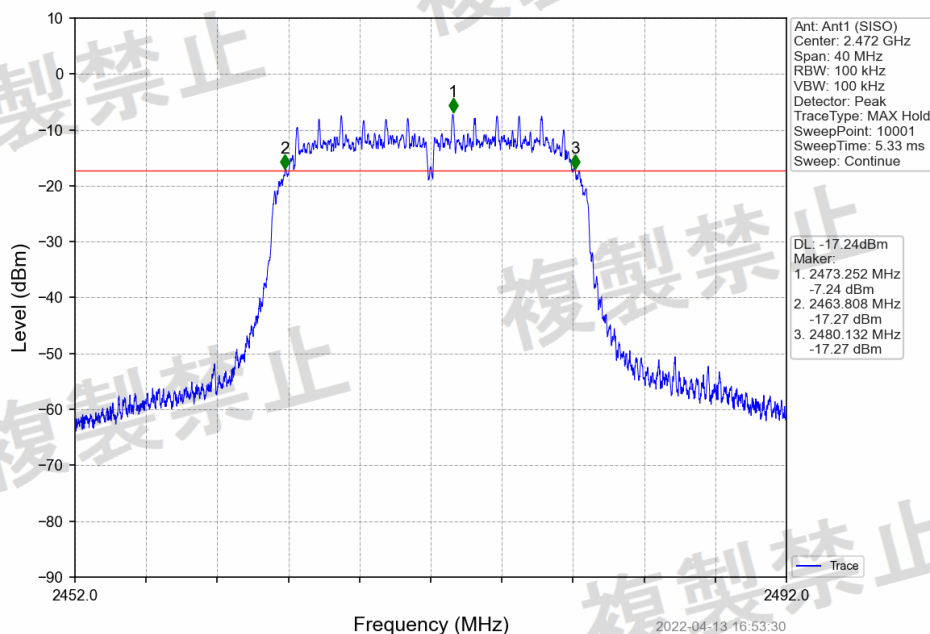
802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



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802.11n(HT20) 2472MHz Ant1 (SISO) NTNV



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2. Occupied Bandwidth

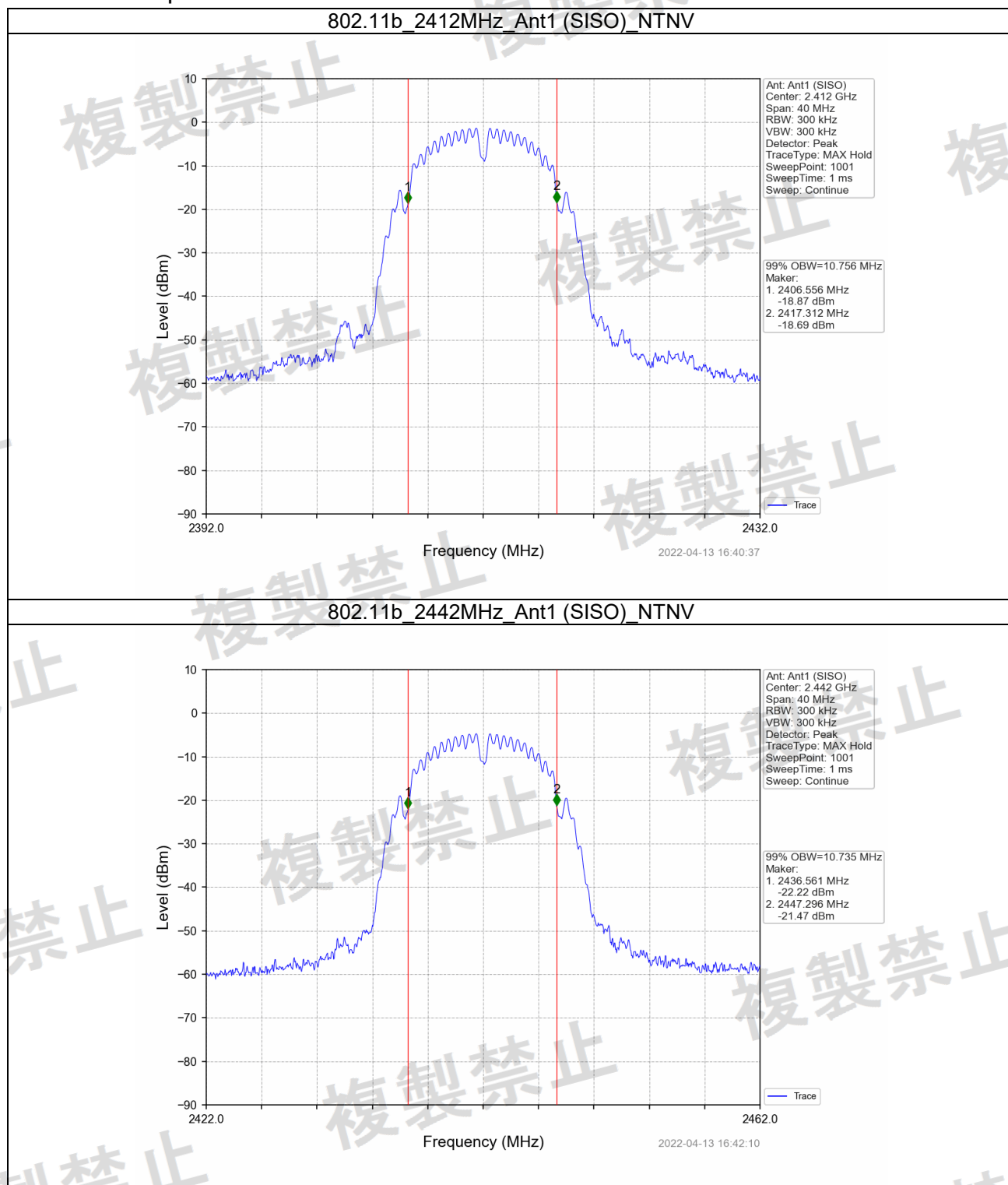
2.1 OBW

2.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	10.756	≤ 26	Pass
			2442	10.735	≤ 26	Pass
			2472	10.714	≤ 26	Pass
	802.11g	SISO	2412	16.043	≤ 26	Pass
			2442	16.033	≤ 26	Pass
			2472	16.042	≤ 26	Pass
	802.11n (HT20)	SISO	2412	16.702	≤ 26	Pass
			2442	16.699	≤ 26	Pass
			2472	16.710	≤ 26	Pass



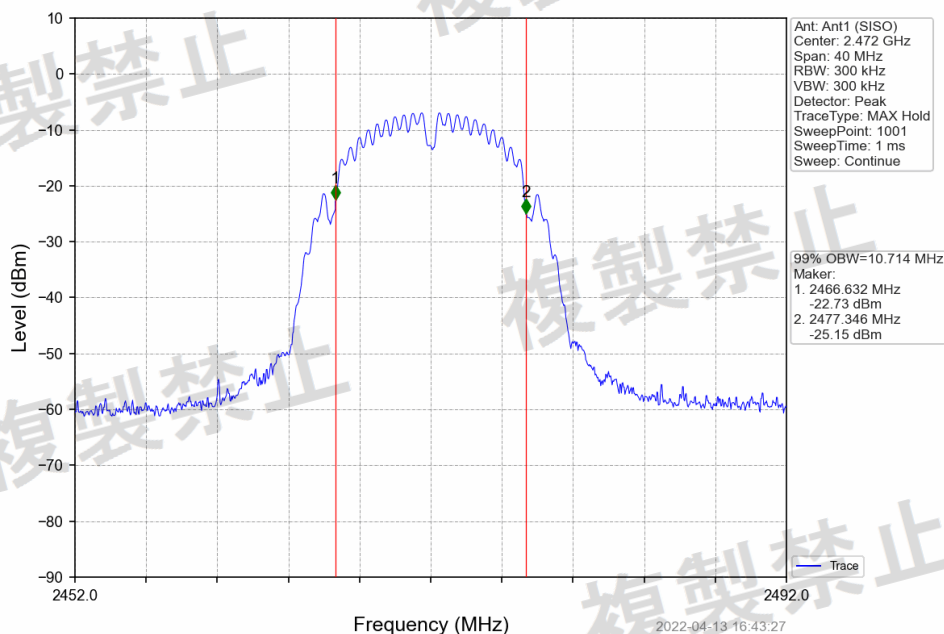
2.1.2 Test Graph



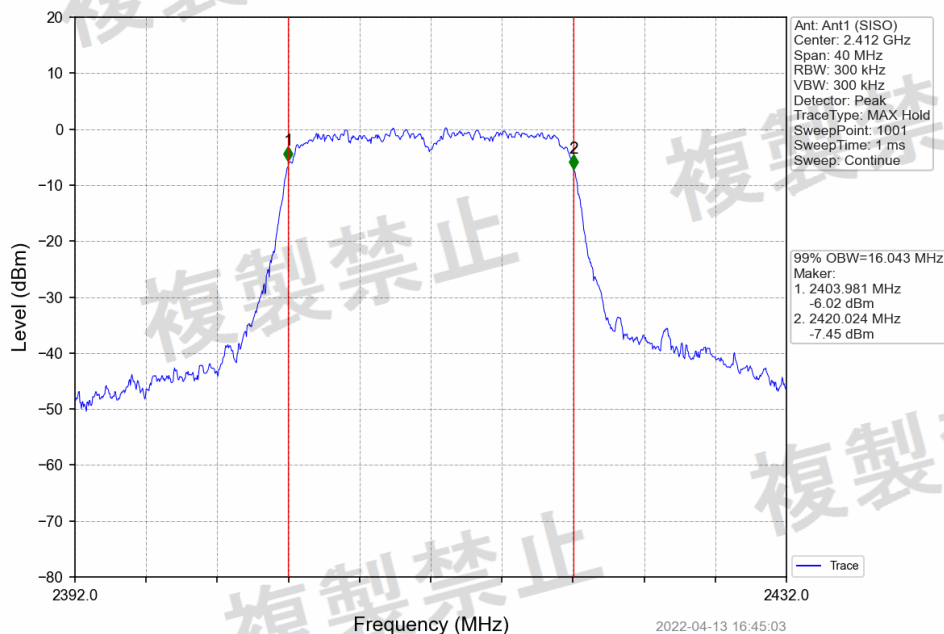
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802.11b 2472MHz Ant1 (SISO) NTV



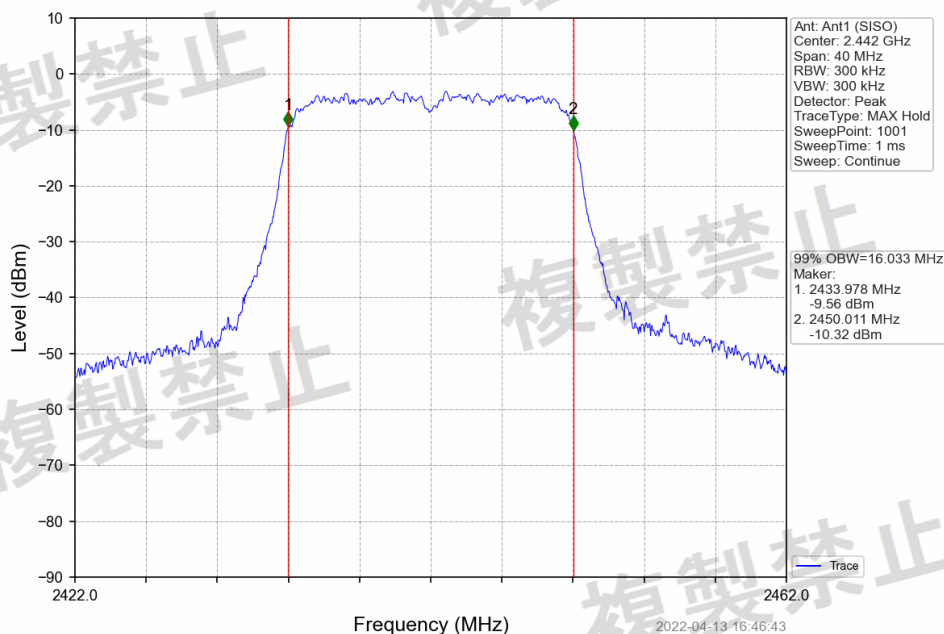
802.11g 2412MHz Ant1 (SISO) NTV



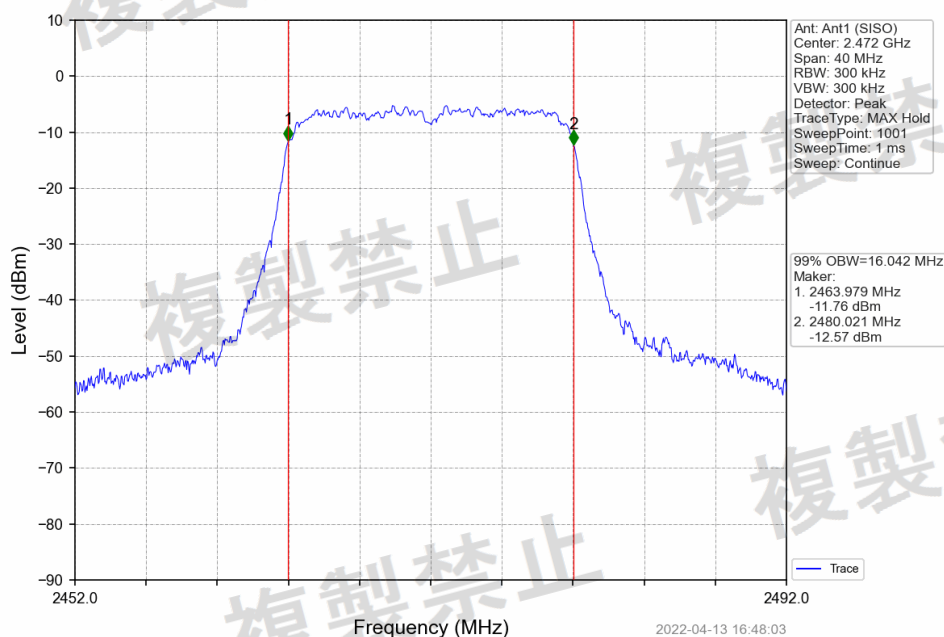
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802.11g_2442MHz_Ant1 (SISO) NTNV



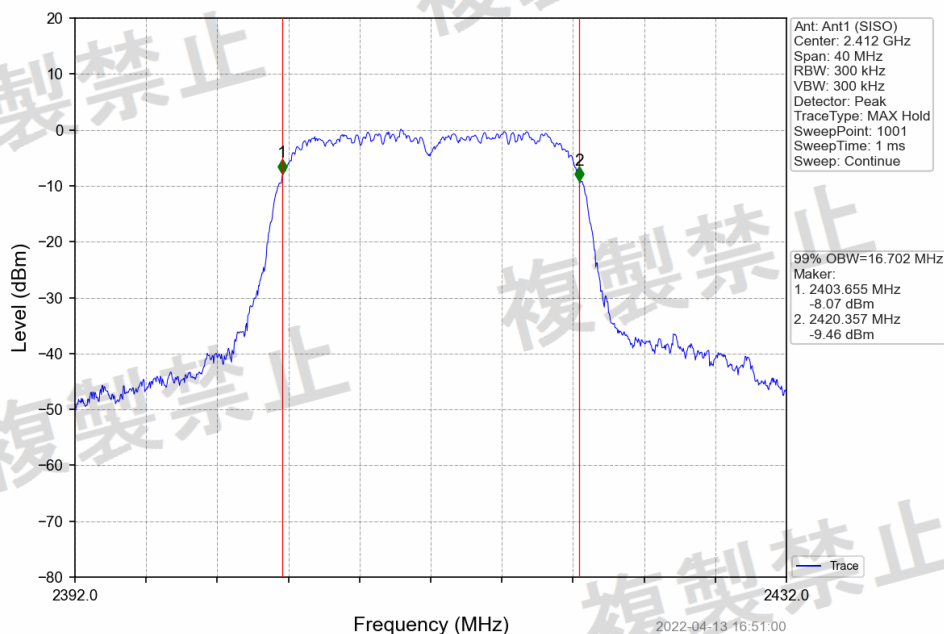
802.11g_2472MHz_Ant1 (SISO) NTNV



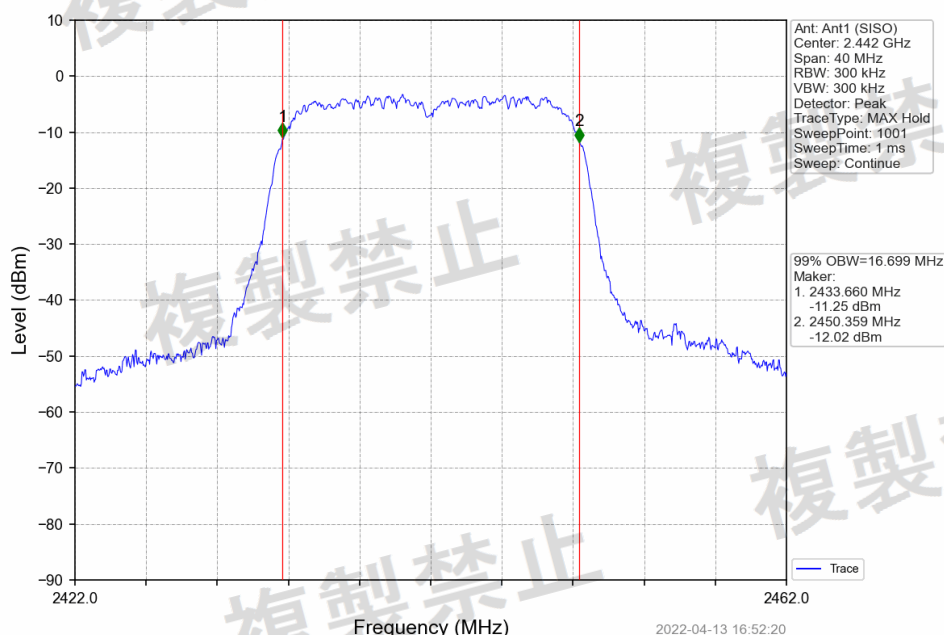
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802.11n(HT20) 2412MHz Ant1 (SISO) NTNV



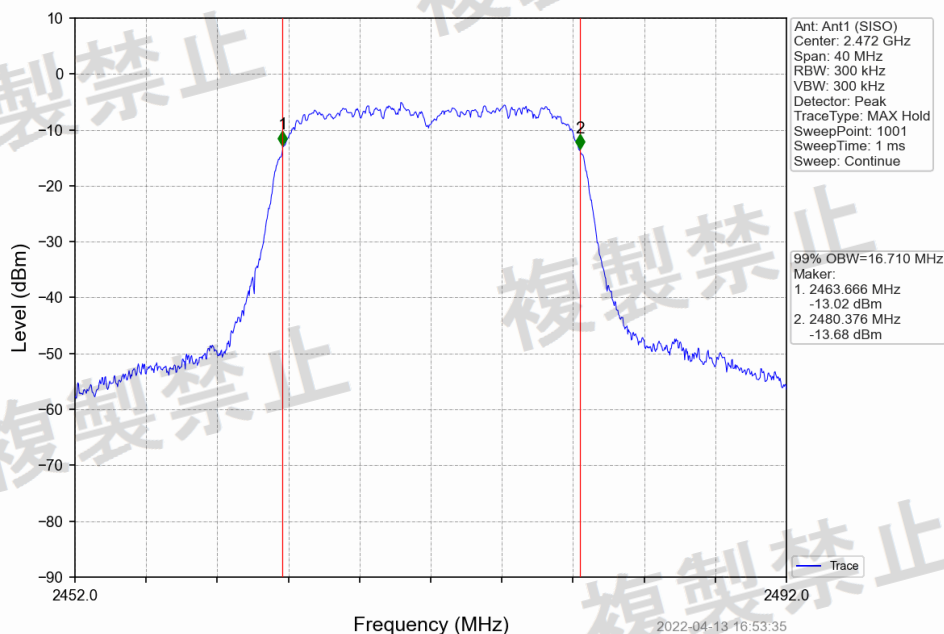
802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



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802.11n(HT20) 2472MHz Ant1 (SISO) NTNV



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3. Spread Bandwidth

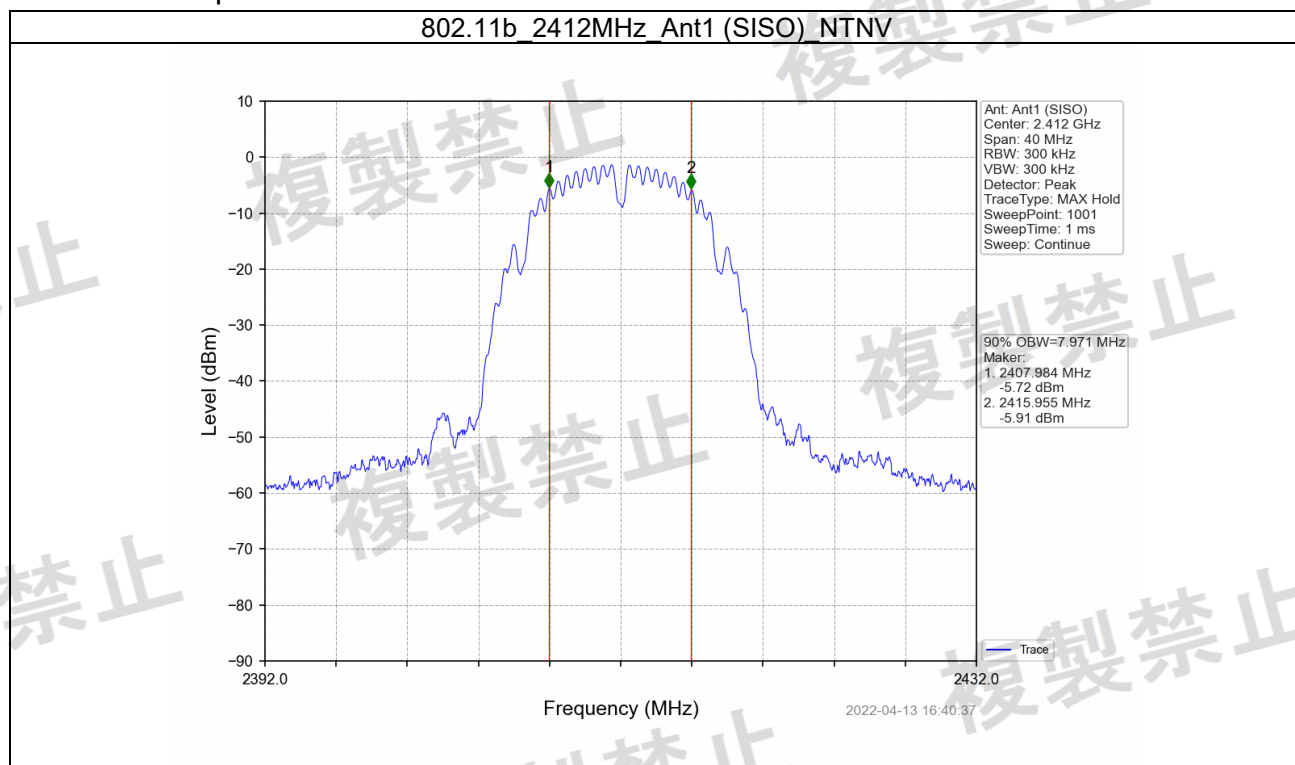
3.1 SPBW

3.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	7.971	--	Pass
			2442	7.958	--	Pass
			2472	7.953	--	Pass

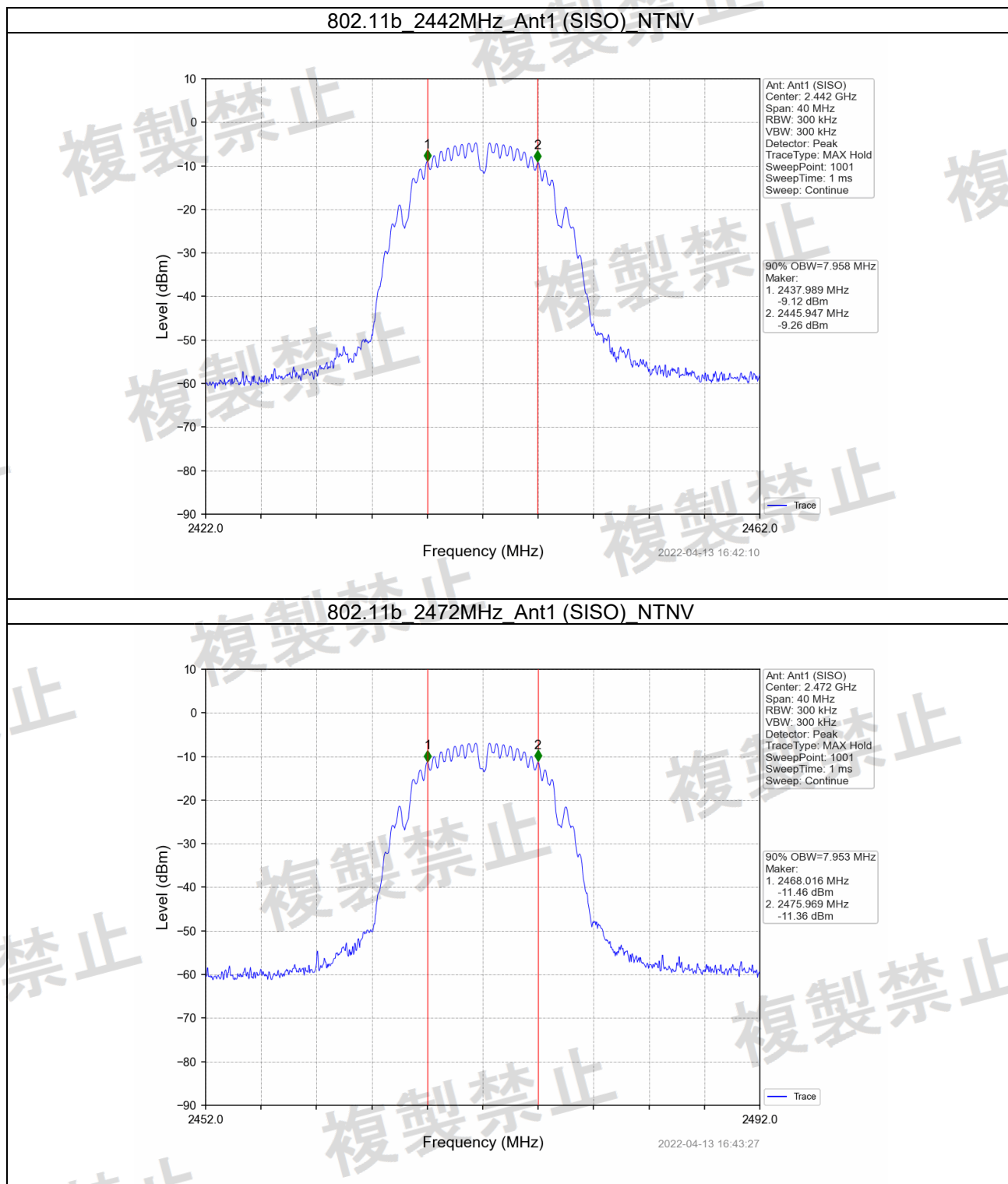
ENV	Mode	TX Type	Frequency (MHz)	Spread rate		Verdict
				Ant1	Limit	
NTNV	802.11b	SISO	2412	5.797	--	Pass
			2442	5.787	--	Pass
			2472	5.784	--	Pass

3.1.2 Test Graph



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3.2 SpreadFactor

3.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Spread Factor		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	5.800	--	Pass
			2442	5.790	--	Pass
			2472	5.780	--	Pass



4. Antenna Power

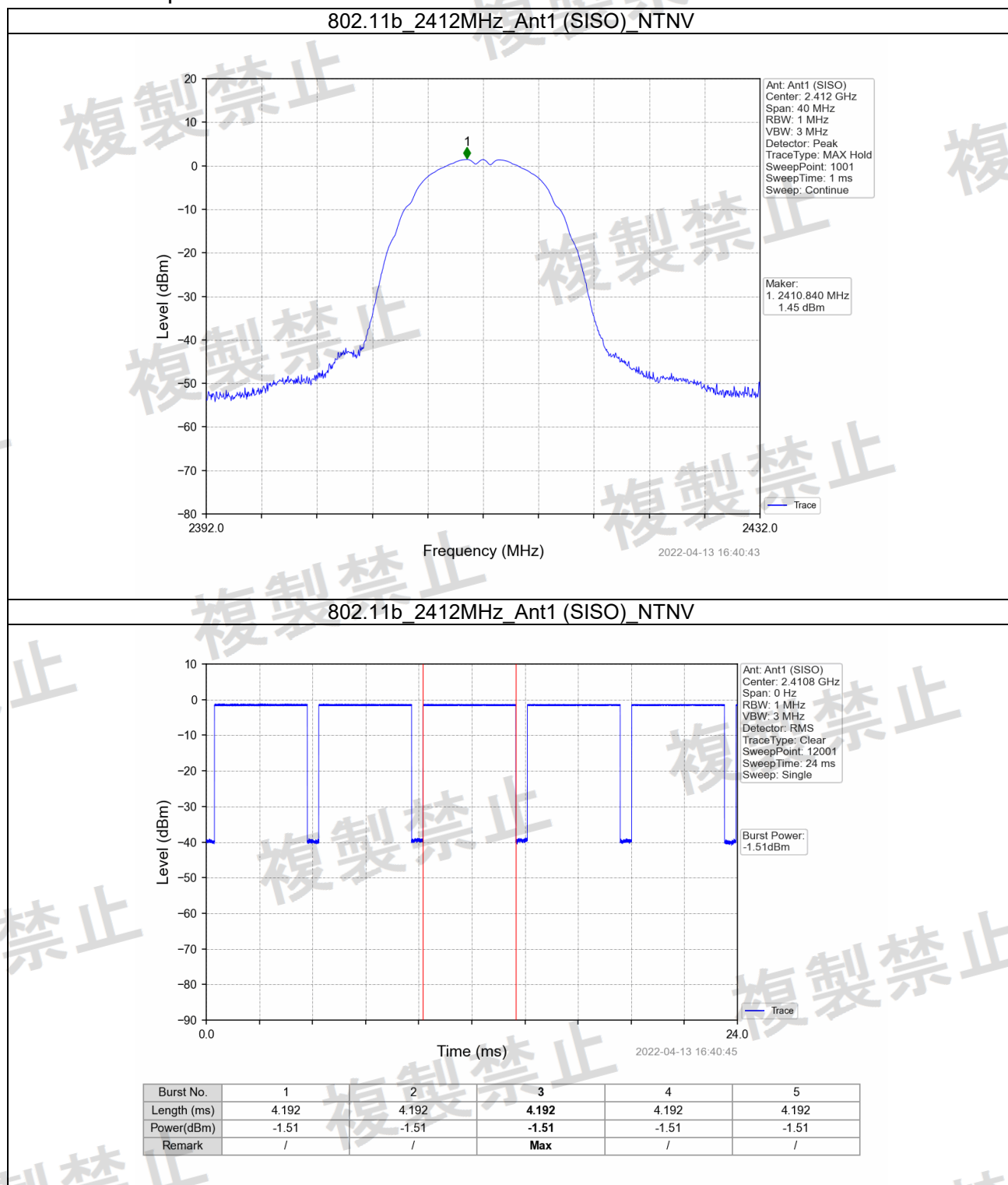
4.1 Power

4.1.1 Test Result

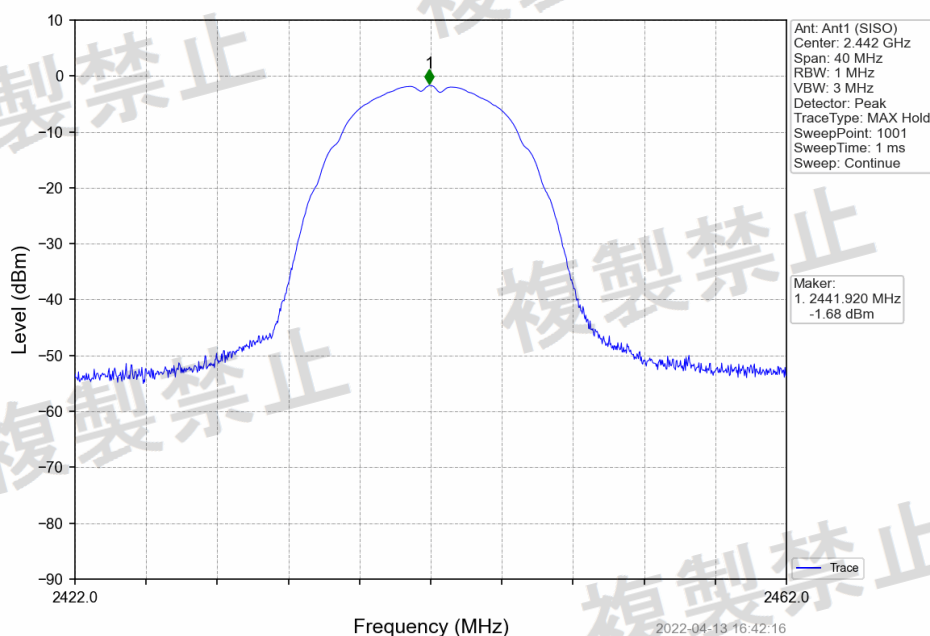
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	802.11b	SISO	2412	1	0.706	≤ 10.00	0.590	19.71	≤ 20	Pass
			2442	1	0.198	≤ 10.00	0.590	-66.49	≤ 20	Pass
			2472	1	0.121	≤ 10.00	0.590	-79.58	≤ 20	Pass
	802.11g	SISO	2412	1	0.608	≤ 10.00	0.610	-0.31	≤ 20	Pass
			2442	1	0.288	≤ 10.00	0.610	-52.83	≤ 20	Pass
			2472	1	0.179	≤ 10.00	0.610	-70.58	≤ 20	Pass
	802.11n (HT20)	SISO	2412	1	0.535	≤ 10.00	0.530	0.86	≤ 20	Pass
			2442	1	0.277	≤ 10.00	0.530	-47.79	≤ 20	Pass
			2472	1	0.170	≤ 10.00	0.530	-67.88	≤ 20	Pass



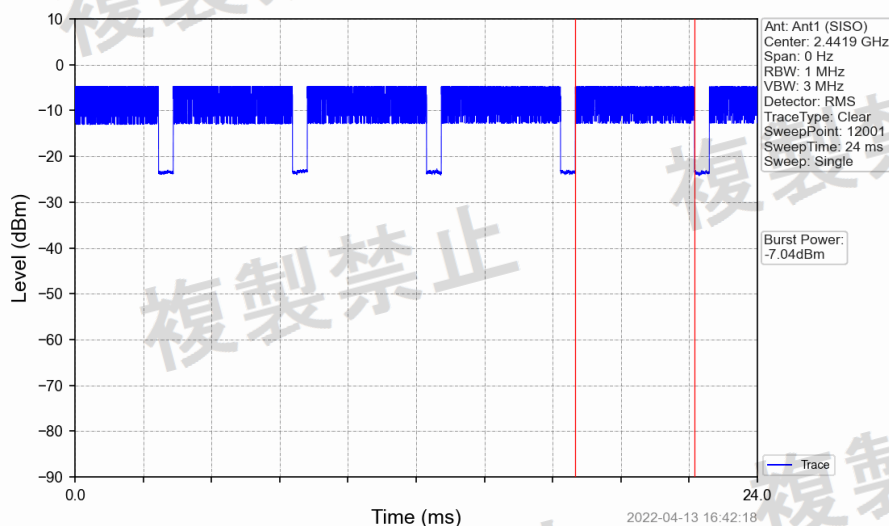
4.1.2 Test Graph



802.11b_2442MHz_Ant1 (SISO) NTN



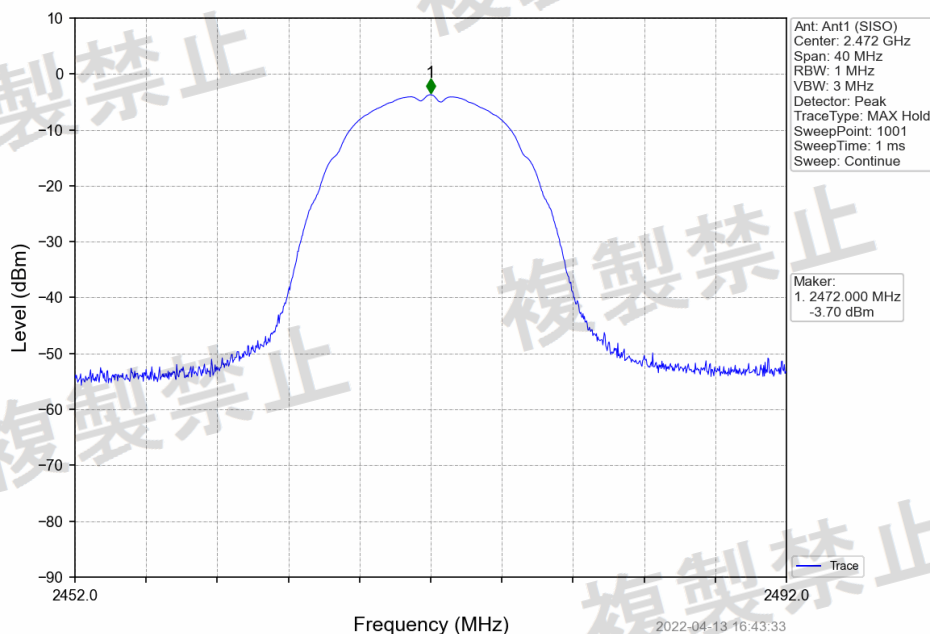
802.11b_2442MHz_Ant1 (SISO) NTN



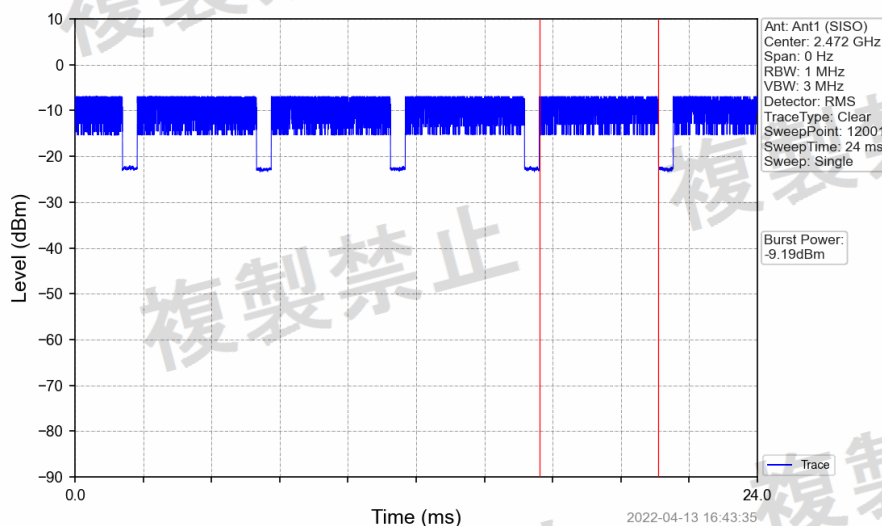
Burst No.	1	2	3	4
Length (ms)	4.192	4.192	4.192	4.192
Power(dBm)	-7.04	-7.04	-7.05	-7.04
Remark	/	/	/	Max



802.11b_2472MHz_Ant1 (SISO) NTNV



802.11b_2472MHz_Ant1 (SISO) NTNV



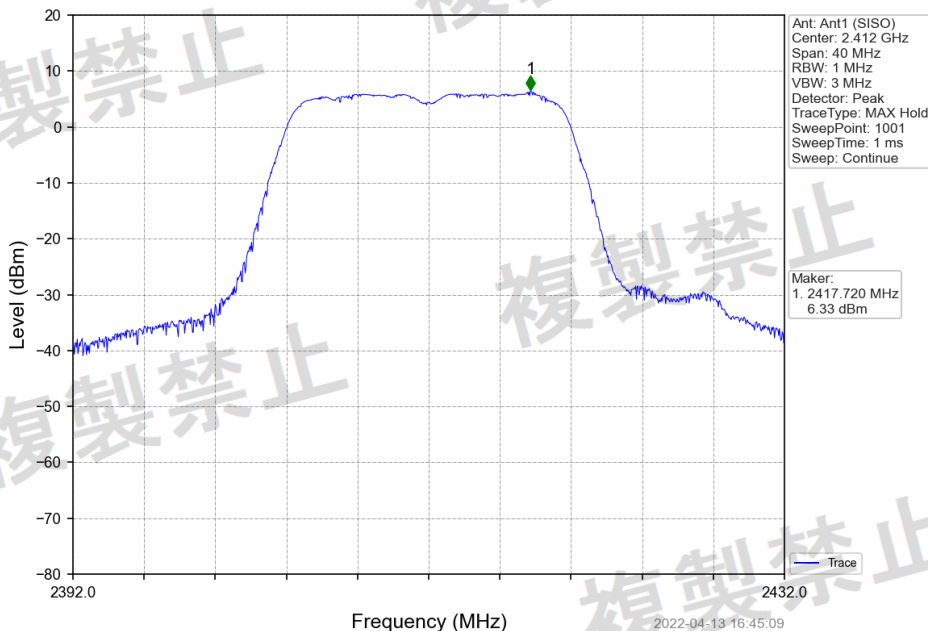
Burst No.	1	2	3	4
Length (ms)	4.192	4.192	4.192	4.192
Power(dBm)	-9.20	-9.19	-9.20	-9.19
Remark	/	/	/	Max



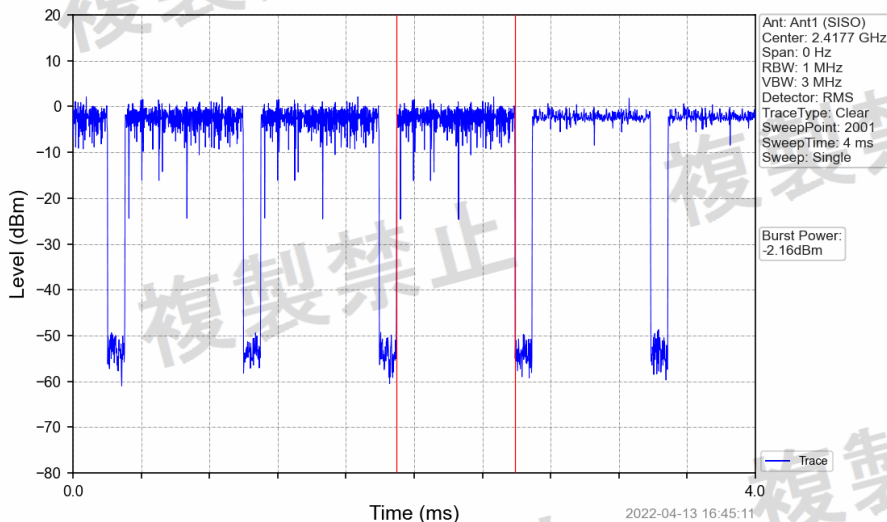
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802.11g_2412MHz_Ant1 (SISO) NTN



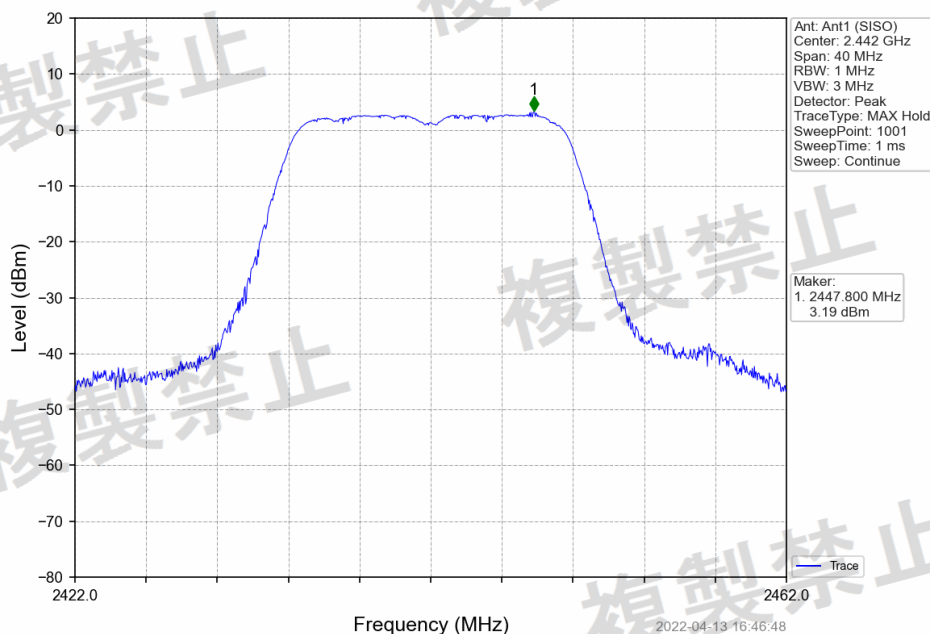
802.11g_2412MHz_Ant1 (SISO) NTN



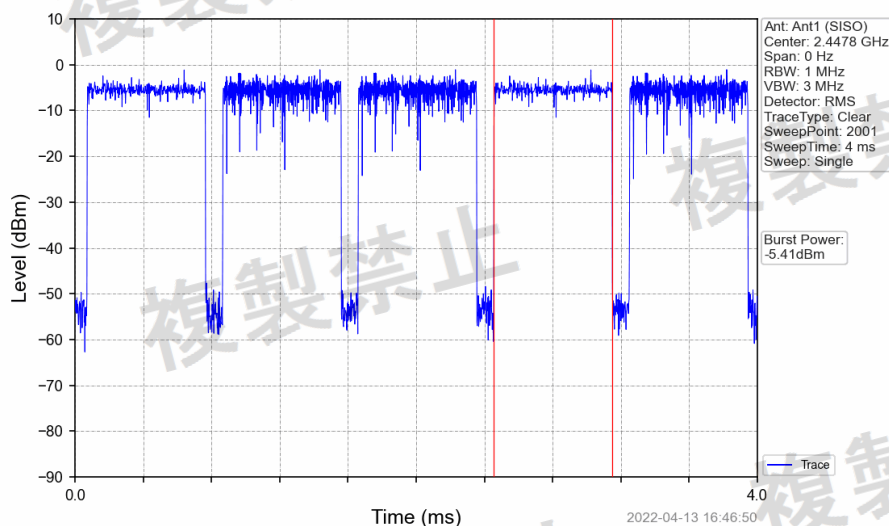
Burst No.	1	2	3	4
Length (ms)	0.692	0.692	0.692	0.694
Power(dBm)	-2.16	-2.17	-2.16	-2.18
Remark	/	/	Max	/



802.11g_2442MHz_Ant1 (SISO) NTNV



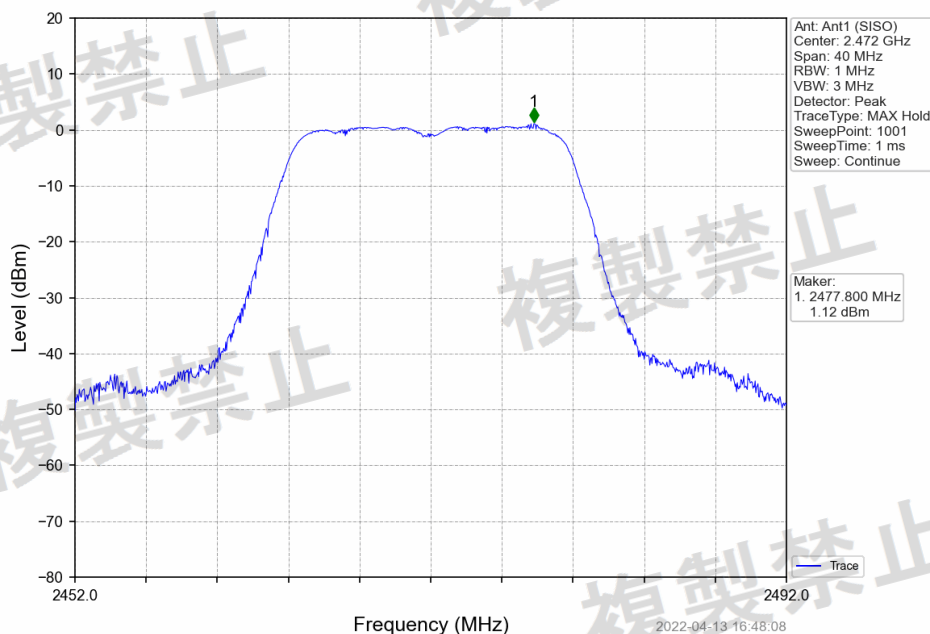
802.11g_2442MHz_Ant1 (SISO) NTNV



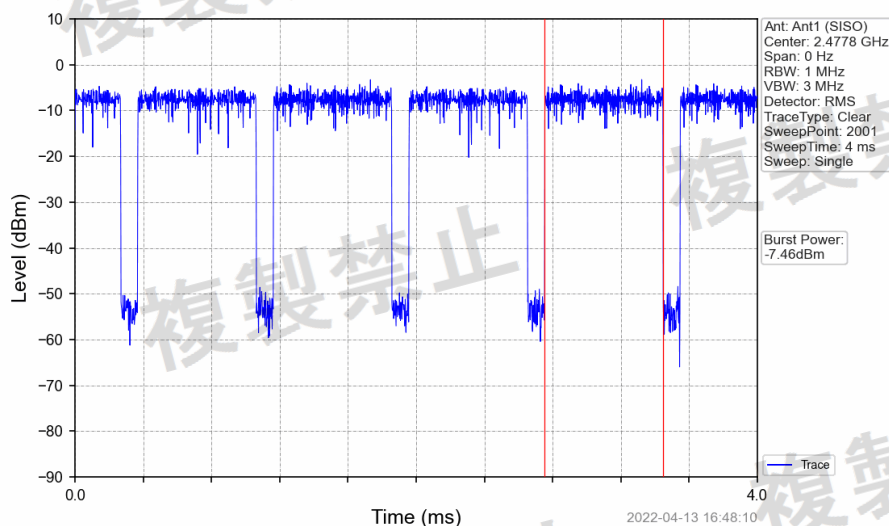
Burst No.	1	2	3	4	5
Length (ms)	0.692	0.694	0.694	0.692	0.694
Power(dBm)	-5.41	-5.42	-5.42	-5.41	-5.42
Remark	/	/	/	Max	/



802.11g_2472MHz_Ant1 (SISO) NTNV



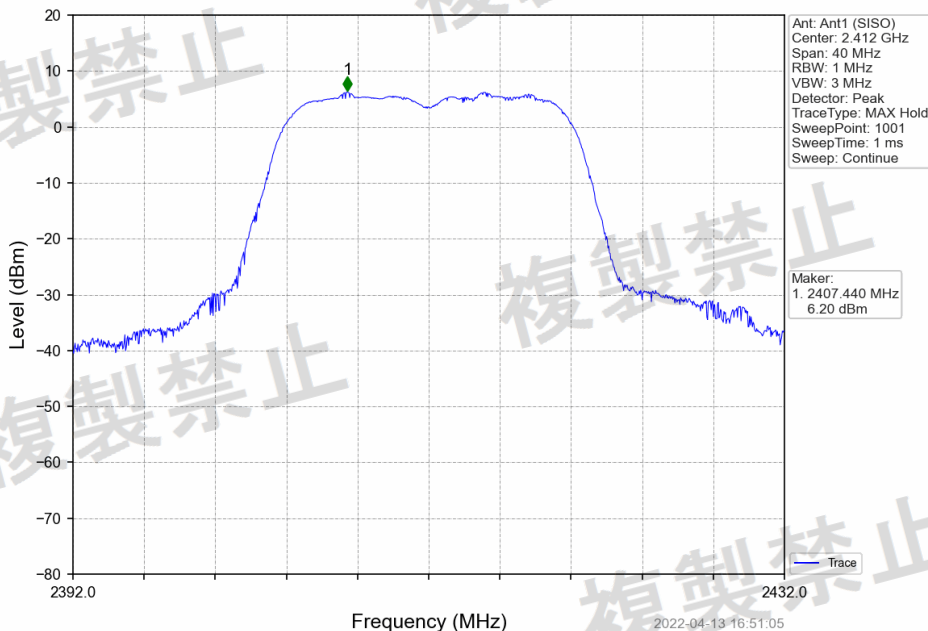
802.11g_2472MHz_Ant1 (SISO) NTNV



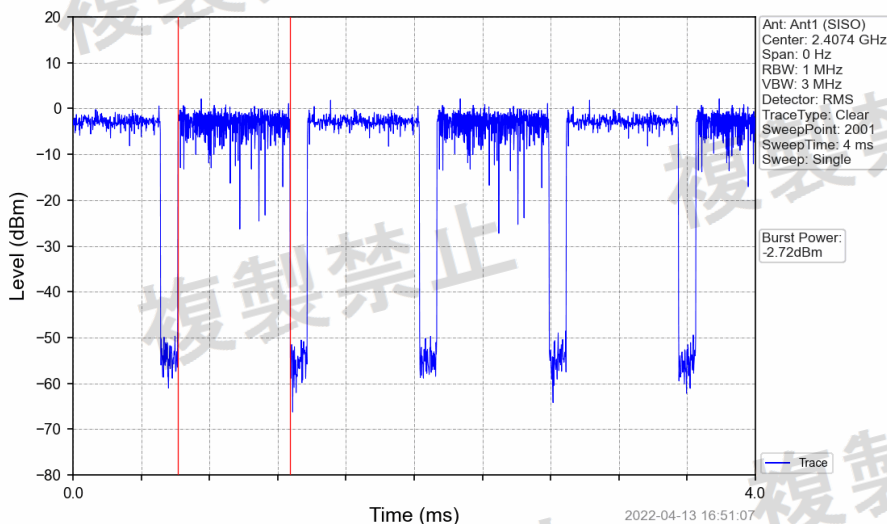
Burst No.	1	2	3	4
Length (ms)	0.694	0.692	0.694	0.692
Power(dBm)	-7.47	-7.46	-7.47	-7.46
Remark	/	/	/	Max



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



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



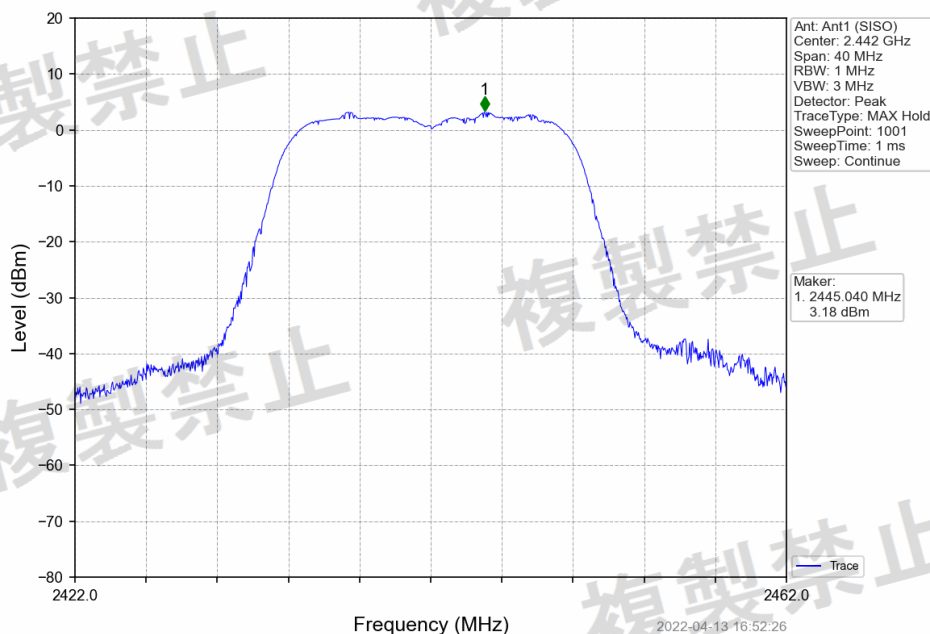
Burst No.	1	2	3	4
Length (ms)	0.656	0.656	0.656	0.656
Power(dBm)	-2.72	-2.72	-2.72	-2.72
Remark	Max	/	/	/



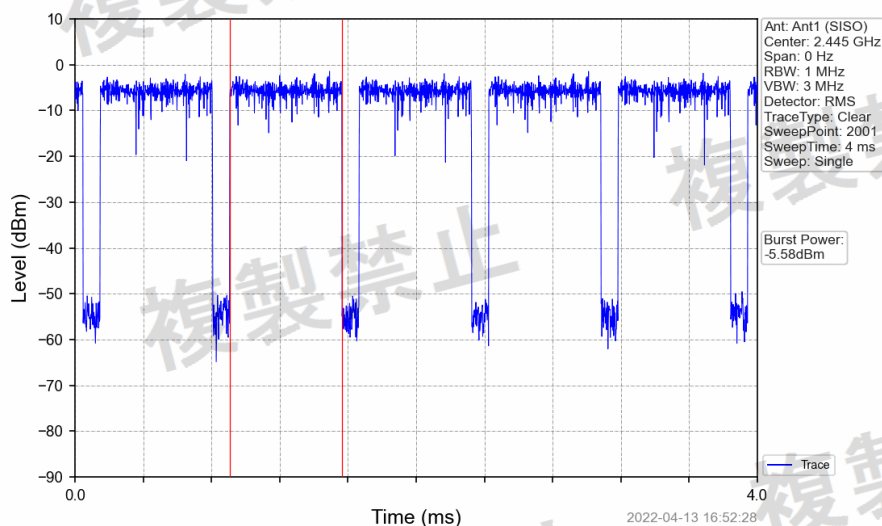
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802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



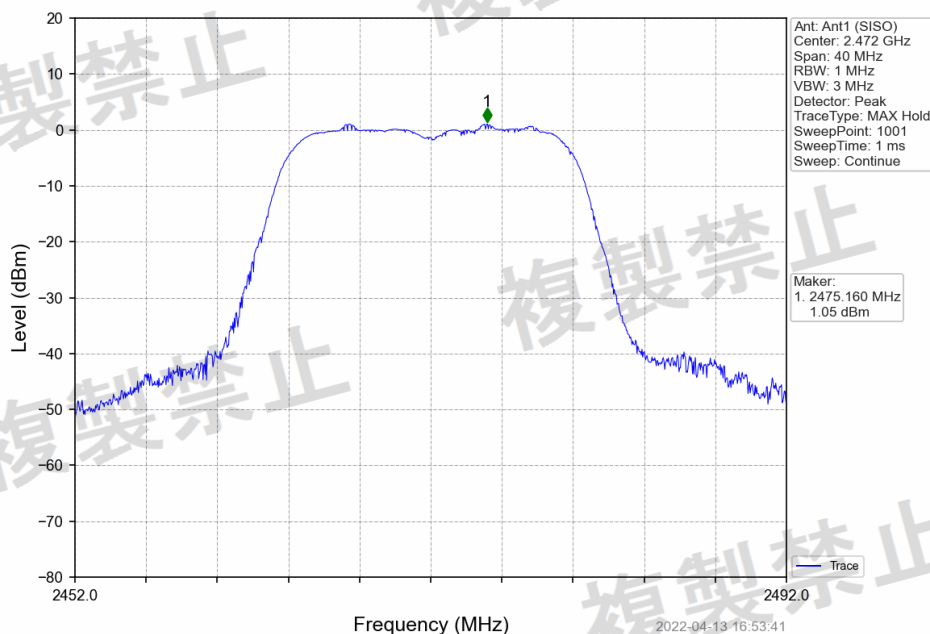
802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



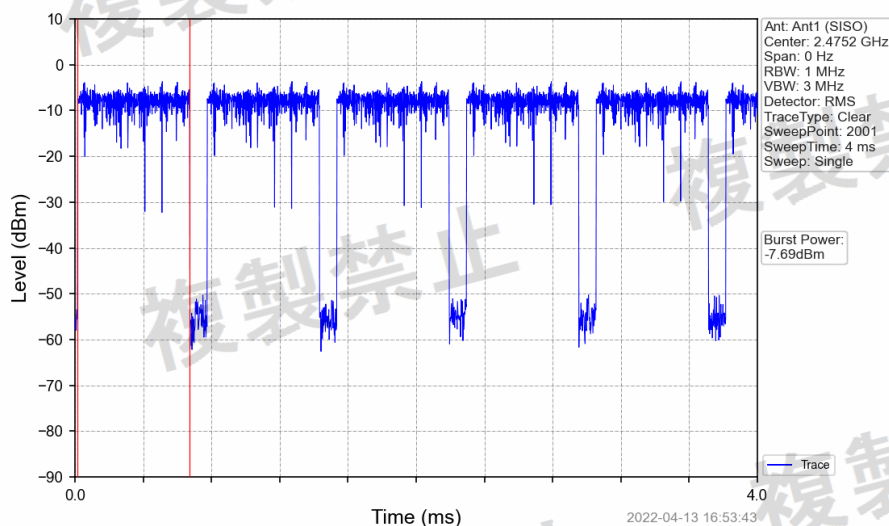
Burst No.	1	2	3	4	5
Length (ms)	0.658	0.656	0.658	0.656	0.658
Power(dBm)	-5.59	-5.58	-5.59	-5.58	-5.59
Remark	/	Max	/	/	/



802.11n(HT20) 2472MHz Ant1 (SISO) NTNV



802.11n(HT20) 2472MHz Ant1 (SISO) NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.656	0.656	0.656	0.656	0.656
Power(dBm)	-7.69	-7.70	-7.69	-7.69	-7.70
Remark	Max	/	/	/	/

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5. Spurious Emission Intensity

5.1 TXSE

5.1.1 Test Result

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	2379.500	-51.98	0.0063	/	/	2.5	Pass
				2387	2400	2399.376	-48.01	0.0158	/	/	25	Pass
				2483.5	2496.5	2494.407	-50.66	0.0086	/	/	25	Pass
				2496.5	12500	3216.000	-50.87	0.0082	/	/	2.5	Pass
		2442	1	30	2387	2310.000	-52.32	0.0059	/	/	2.5	Pass
				2387	2400	2391.589	-51.79	0.0066	/	/	25	Pass
				2483.5	2496.5	2484.709	-50.24	0.0095	/	/	25	Pass
				2496.5	12500	3256.000	-49.87	0.0103	/	/	2.5	Pass
		2472	1	30	2387	2379.000	-53.52	0.0044	/	/	2.5	Pass
				2387	2400	2392.343	-53.82	0.0041	/	/	25	Pass
				2483.5	2496.5	2483.669	-50.43	0.0091	/	/	25	Pass
				2496.5	12500	3296.000	-49.89	0.0103	/	/	2.5	Pass
802.11g	SISO	2412	1	30	2387	2387.000	-41.98	0.0634	/	/	2.5	Pass
				2387	2400	2399.740	-33.03	0.4977	/	/	25	Pass
				2483.5	2496.5	2485.424	-47.80	0.0166	/	/	25	Pass
				2496.5	12500	3740.000	-46.63	0.0217	/	/	2.5	Pass
		2442	1	30	2387	2297.500	-48.29	0.0148	/	/	2.5	Pass
				2387	2400	2388.131	-28.72	1.3428	/	/	25	Pass
				2483.5	2496.5	2495.863	-47.45	0.0180	/	/	25	Pass
				2496.5	12500	5038.000	-42.49	0.0564	/	/	2.5	Pass
		2472	1	30	2387	2363.000	-52.33	0.0058	/	/	2.5	Pass
				2387	2400	2399.948	-52.55	0.0056	/	/	25	Pass
				2483.5	2496.5	2483.500	-38.67	0.1358	/	/	25	Pass
				2496.5	12500	5037.500	-49.12	0.0122	/	/	2.5	Pass



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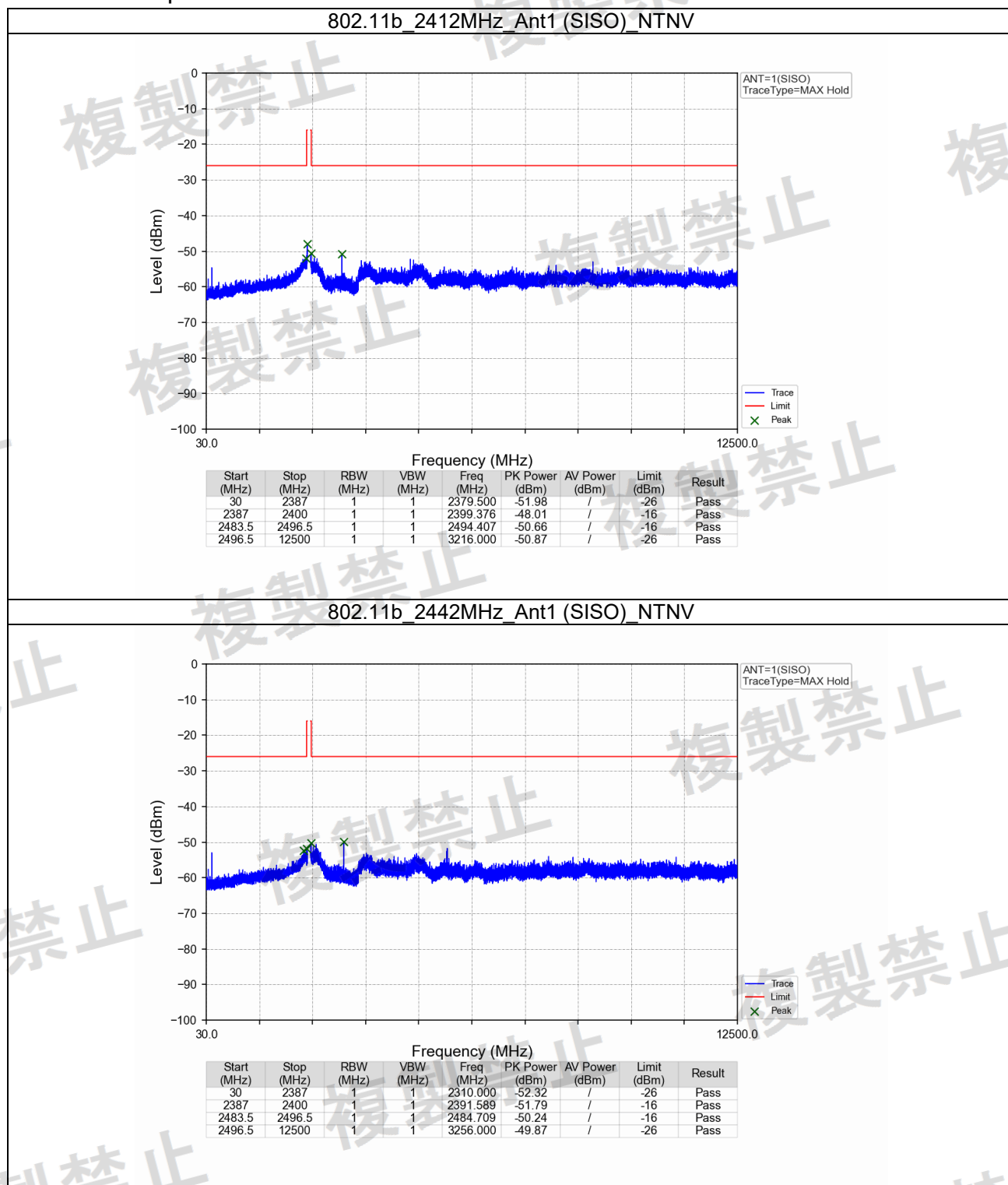
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NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11n (HT20)	SISO	2412	1	30	2387	2385.500	-43.43	0.0454	/	/	2.5	Pass
				2387	2400	2399.974	-30.47	0.8974	/	/	25	Pass
				2483.5	2496.5	2493.497	-48.33	0.0147	/	/	25	Pass
				2496.5	12500	5682.500	-45.60	0.0275	/	/	2.5	Pass
		2442	1	30	2387	2368.500	-48.79	0.0132	/	/	2.5	Pass
				2387	2400	2396.542	-49.41	0.0115	/	/	25	Pass
				2483.5	2496.5	2492.067	-47.62	0.0173	/	/	25	Pass
				2496.5	12500	3256.000	-46.29	0.0235	/	/	2.5	Pass
		2472	1	30	2387	2386.000	-53.10	0.0049	/	/	2.5	Pass
				2387	2400	2393.045	-52.90	0.0051	/	/	25	Pass
				2483.5	2496.5	2483.500	-38.17	0.1524	/	/	25	Pass
				2496.5	12500	3296.000	-48.66	0.0136	/	/	2.5	Pass

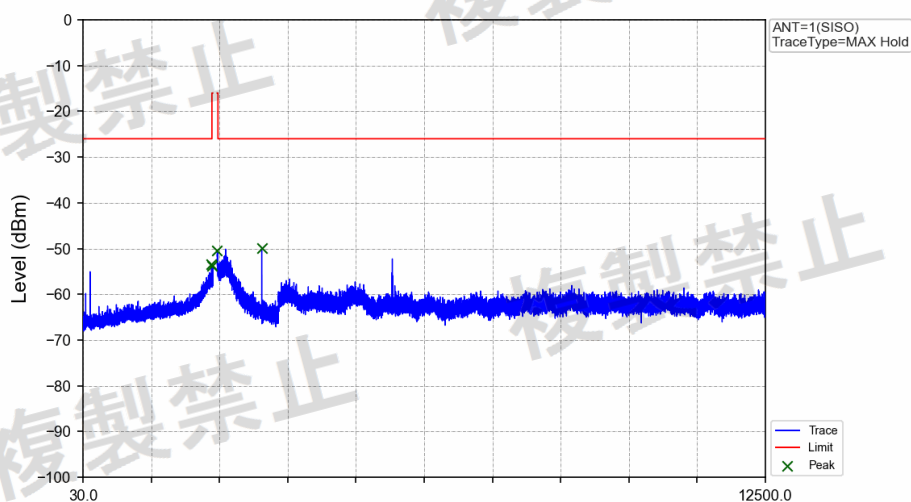
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5.1.2 Test Graph

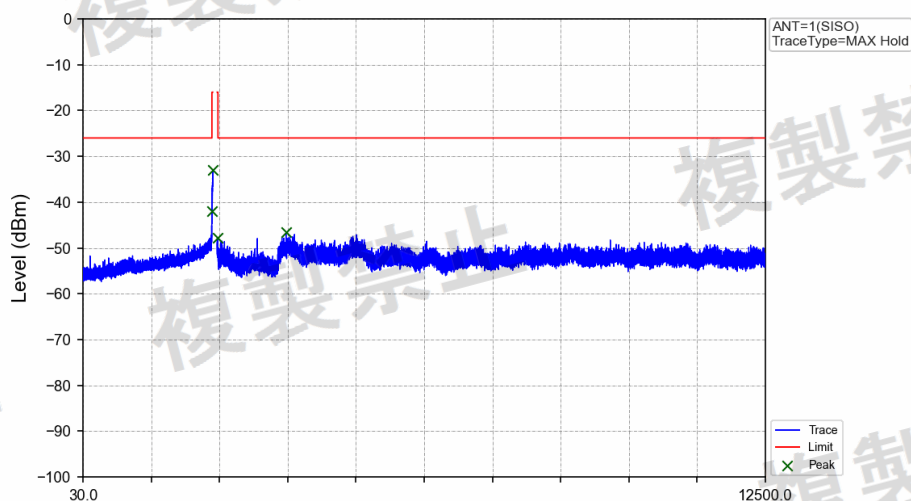


802.11b 2472MHz Ant1 (SISO) NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2379.000	-53.52	/	-26	Pass
2387	2400	1	1	2392.343	-53.82	/	-16	Pass
2483.5	2496.5	1	1	2483.669	-50.43	/	-16	Pass
2496.5	12500	1	1	3296.000	-49.89	/	-26	Pass

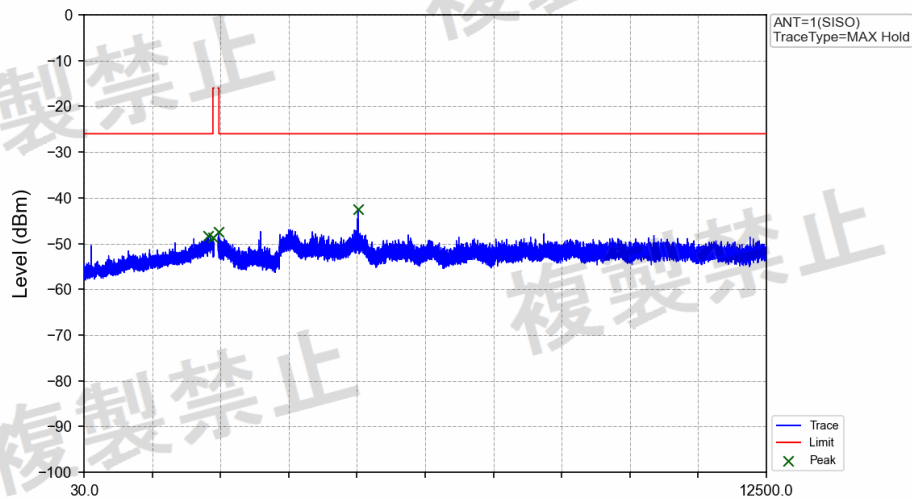
802.11g 2412MHz Ant1 (SISO) NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2387.000	-41.98	/	-26	Pass
2387	2400	1	1	2399.740	-33.03	/	-16	Pass
2483.5	2496.5	1	1	2485.424	-47.80	/	-16	Pass
2496.5	12500	1	1	3740.000	-46.63	/	-26	Pass

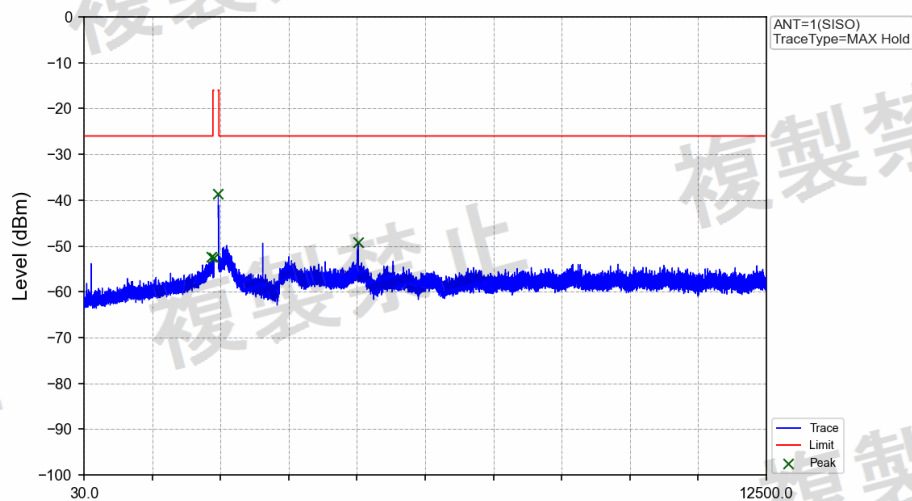


802.11g_2442MHz_Ant1 (SISO) NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2297.500	-48.29	/	-26	Pass
2387	2400	1	1	2388.131	-48.72	/	-16	Pass
2483.5	2496.5	1	1	2495.863	-47.45	/	-16	Pass
2496.5	12500	1	1	5038.000	-42.49	/	-26	Pass

802.11g_2472MHz_Ant1 (SISO) NTN

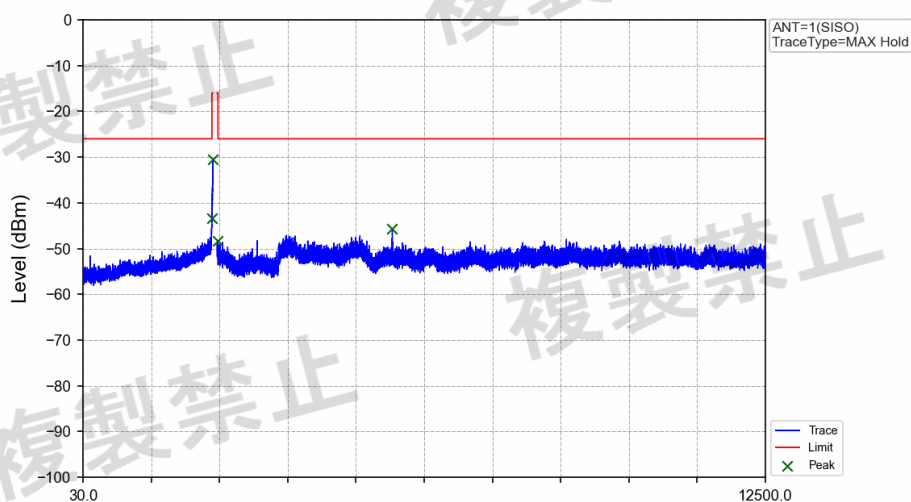


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2363.000	-52.33	/	-26	Pass
2387	2400	1	1	2399.948	-52.55	/	-16	Pass
2483.5	2496.5	1	1	2483.500	-38.67	/	-16	Pass
2496.5	12500	1	1	5037.500	-49.12	/	-26	Pass

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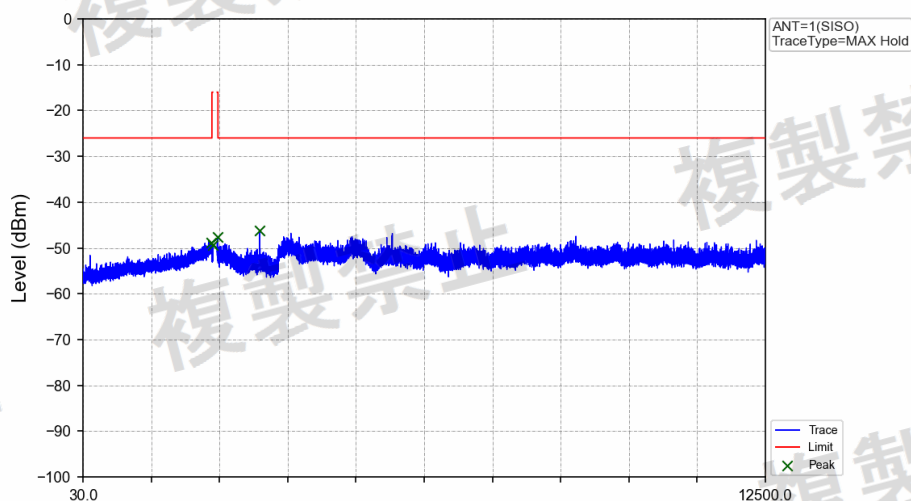
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802.11n(HT20) 2412MHz Ant1 (SISO) NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-43.43	/	-26	Pass
2387	2400	1	1	2399.974	-30.47	/	-16	Pass
2483.5	2496.5	1	1	2493.497	-48.33	/	-16	Pass
2496.5	12500	1	1	5682.500	-45.60	/	-26	Pass

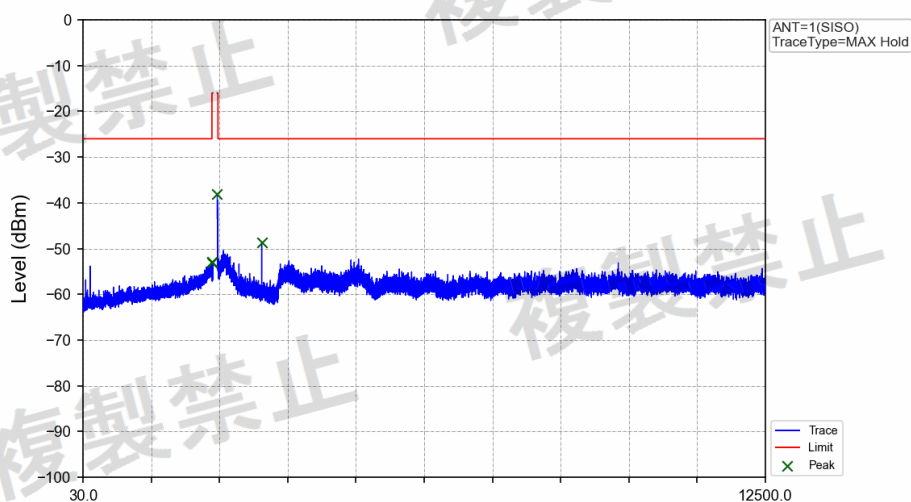
802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2368.500	-48.79	/	-26	Pass
2387	2400	1	1	2396.542	-49.41	/	-16	Pass
2483.5	2496.5	1	1	2492.067	-47.62	/	-16	Pass
2496.5	12500	1	1	3256.000	-46.29	/	-26	Pass



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	2386.000	-53.10	/	-26	Pass
2387	2400	1	1	2393.045	-52.90	/	-16	Pass
2483.5	2496.5	1	1	2483.500	-38.17	/	-16	Pass
2496.5	12500	1	1	3296.000	-48.66	/	-26	Pass

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6. Secondary Radiated Emission

6.1 RXSE

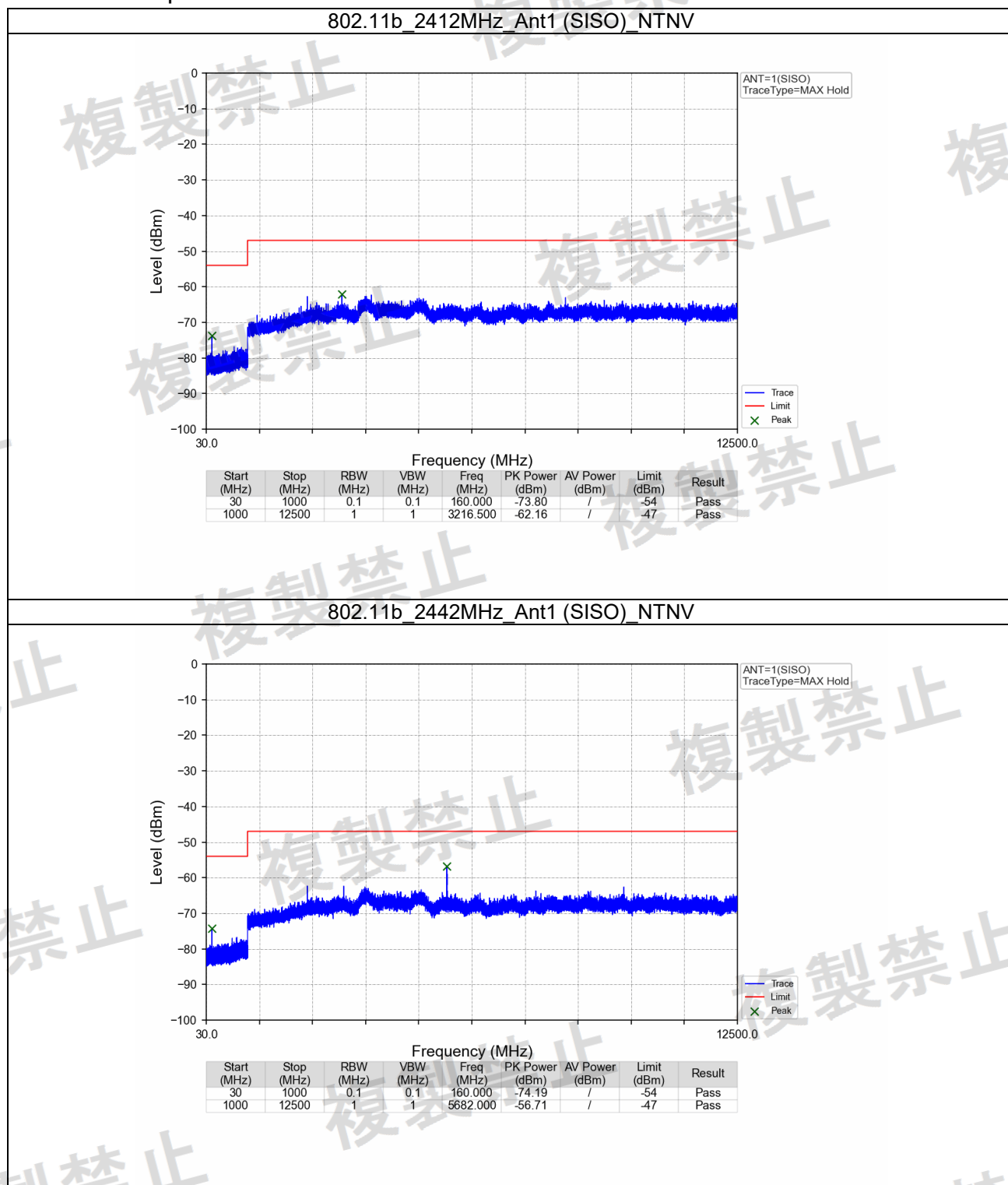
6.1.1 Test Result

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	160.000	-73.80	0.0417	/	/	4	Pass
				1000	12500	3216.500	-62.16	0.6081	/	/	20	Pass
		2442	1	30	1000	160.000	-74.19	0.0381	/	/	4	Pass
				1000	12500	5682.000	-56.71	2.1330	/	/	20	Pass
		2472	1	30	1000	160.000	-73.63	0.0434	/	/	4	Pass
				1000	12500	2402.500	-61.80	0.6607	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	160.000	-74.36	0.0366	/	/	4	Pass
				1000	12500	5673.500	-58.04	1.5704	/	/	20	Pass
		2442	1	30	1000	160.000	-73.17	0.0482	/	/	4	Pass
				1000	12500	4970.500	-61.64	0.6855	/	/	20	Pass
		2472	1	30	1000	160.000	-73.89	0.0408	/	/	4	Pass
				1000	12500	2402.000	-62.27	0.5929	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	160.000	-73.27	0.0471	/	/	4	Pass
				1000	12500	2402.000	-62.03	0.6266	/	/	20	Pass
		2442	1	30	1000	160.000	-73.12	0.0488	/	/	4	Pass
				1000	12500	2402.500	-62.73	0.5333	/	/	20	Pass
		2472	1	30	1000	160.000	-73.09	0.0491	/	/	4	Pass
				1000	12500	3877.000	-61.91	0.6442	/	/	20	Pass

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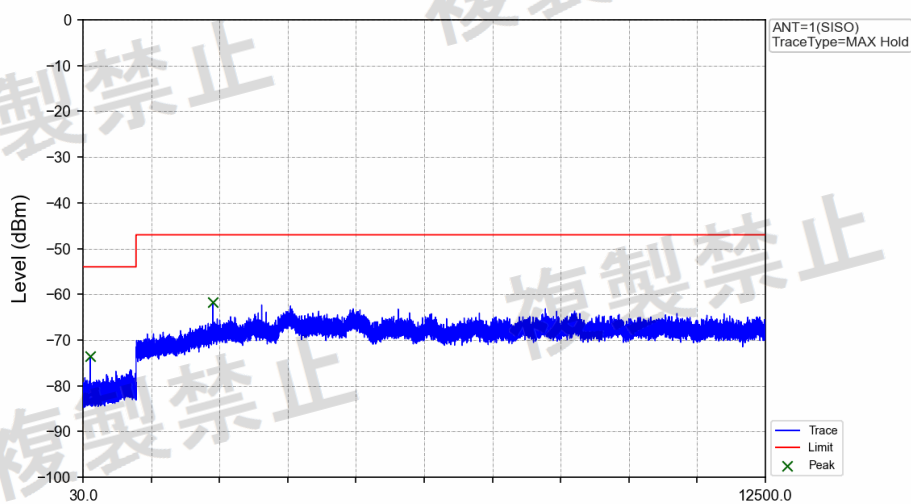
6.1.2 Test Graph



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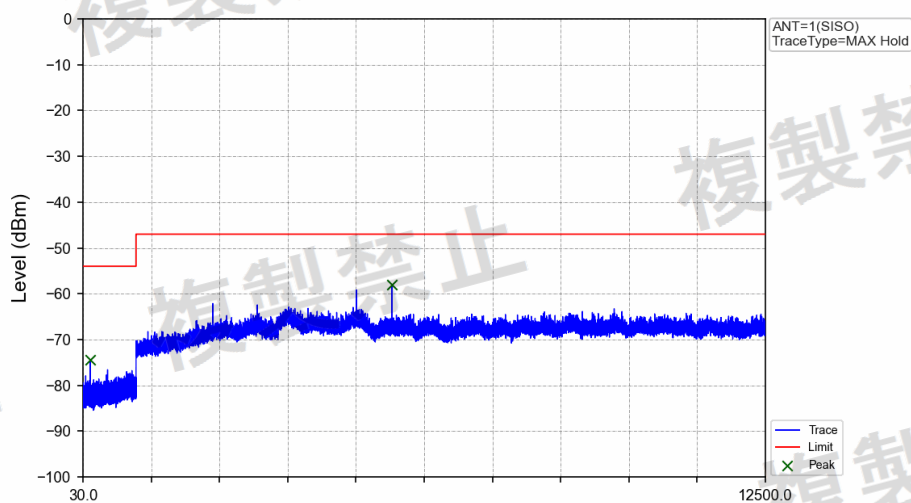
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802.11b_2472MHz_Ant1 (SISO) NTV



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	160.000	-73.63	/	-54	Pass
1000	12500	1	1	2402.500	-61.80	/	-47	Pass

802.11g_2412MHz_Ant1 (SISO) NTV

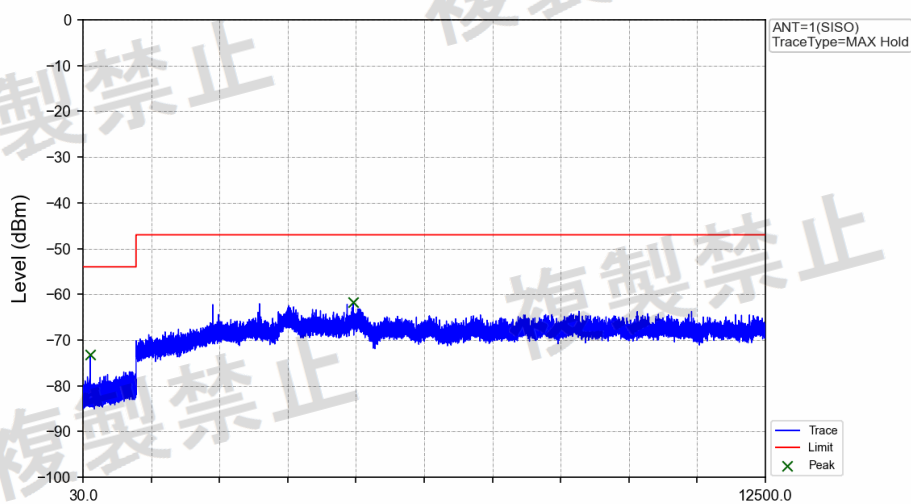


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	160.000	-74.36	/	-54	Pass
1000	12500	1	1	5673.500	-58.04	/	-47	Pass

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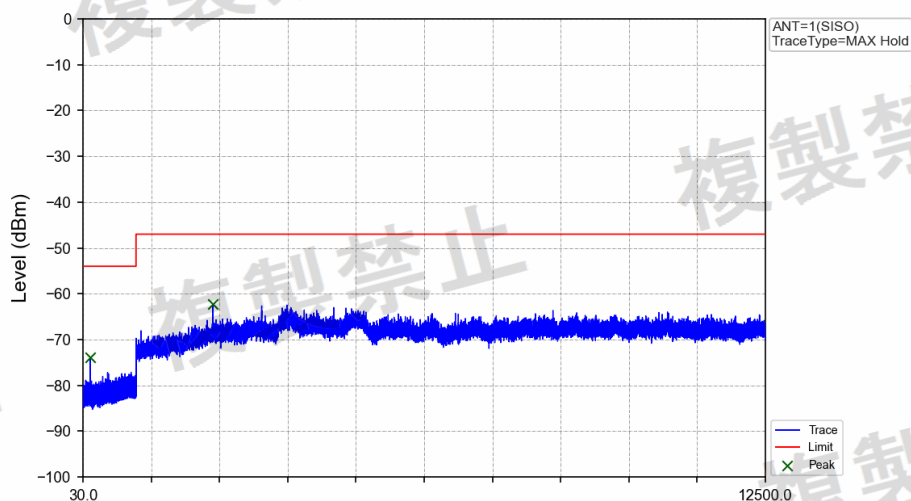
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802.11g_2442MHz_Ant1 (SISO) NTV



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	160.000	-73.17	/	-54	Pass
1000	12500	1	1	4970.500	-61.64	/	-47	Pass

802.11g_2472MHz_Ant1 (SISO) NTV

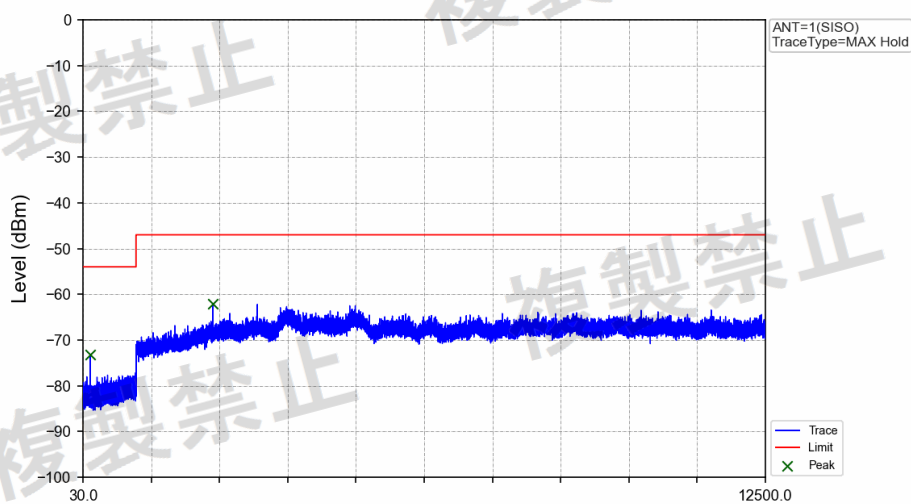


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	160.000	-73.89	/	-54	Pass
1000	12500	1	1	2402.000	-62.27	/	-47	Pass

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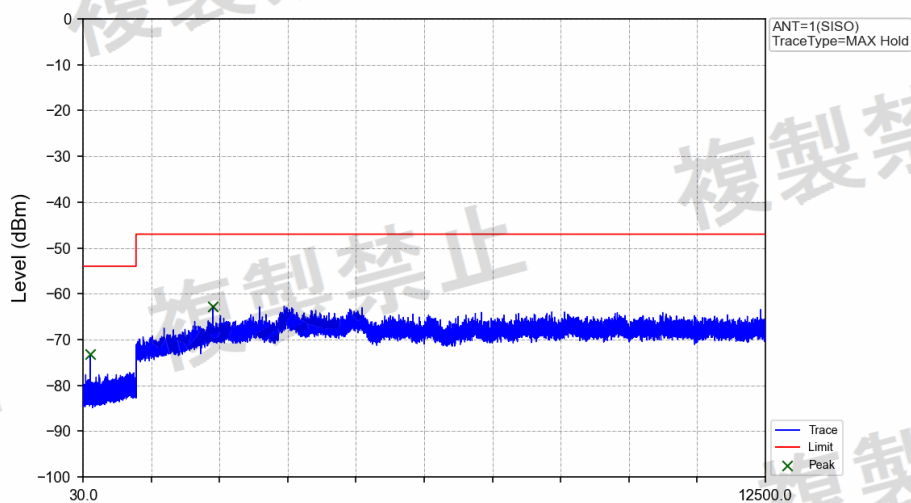
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802.11n(HT20) 2412MHz Ant1 (SISO) NTNV



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	160.000	-73.27	/	-54	Pass
1000	12500	1	1	2402.000	-62.03	/	-47	Pass

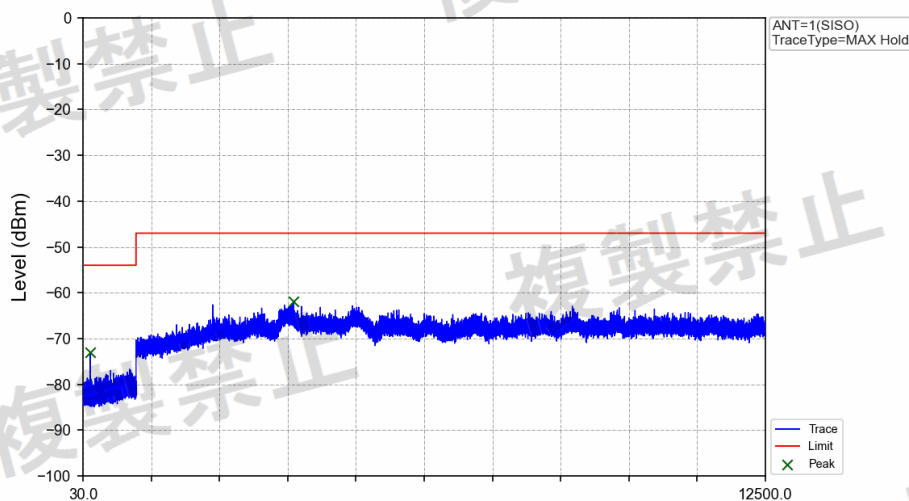
802.11n(HT20) 2442MHz Ant1 (SISO) NTNV



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	160.000	-73.12	/	-54	Pass
1000	12500	1	1	2402.500	-62.73	/	-47	Pass



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	160.000	-73.09	/	-54	Pass
1000	12500	1	1	3877.000	-61.91	/	-47	Pass

- End of the Report -

