

TEST REPORT

Application No.: GZCR2503000298AT
Applicant: Geosolution i Goteborg AB
Address of Applicant: Stora Avagen 21, 436 34 ASKIM, Sweden
Manufacturer: Geosolution i Goteborg AB
Address of Manufacturer: Stora Avagen 21, 436 34 ASKIM, Sweden
Factory: Geosolution i Goteborg AB
Address of Factory: Stora Avagen 21, 436 34 ASKIM, Sweden
Product Name: Total Station
Model No.: ART1, SP200 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: SATLAB
Standard(s): MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2025-03-05
Date of Test: 2025-04-08
Date of Issue: 2025-11-24

Test Result:**Pass***

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



Revision Record			
Version	Report No.	Date	Remark
01	GZCR250300029802	2025-11-24	Original

Authorized for issue by:		
	<i>Key Liang</i>	
	Key Liang/Project Engineer	
	<i>Vico Cui</i>	
	Vico Cui/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
E.I.R.P		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	Pass
Transmitting Antenna Absolute Gain		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A*
Half Power Beam Angle		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A*
Carrier Sensing Function		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A**
Number of Carrier		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.

N/A: Not applicable.



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***Remark:**

1. For the E.I.R.P test data refer to the Appendix for details(P45).
2. The max EIRP= 10.70 dBm $\leq$ 12.41 dBm, so the Transmitting Antenna Absolute Gain & HBPA exemption testing.
3. N/A**: Not applicable. The product does not support 40M bandwidth.

*** Declaration of EUT Family Grouping:****Model No.: ART1, SP200**

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name & product label.

Therefore only one model ART1 was evaluated in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:

Battery operation:

Model: BL-5000QT

Capacity: 14.4V/5Ah(Typical)/14.4V/4.9Ah(Rated)/70.56Wh

Nominal Voltage: 14.4V

Max Charging Voltage: 16.8V

Cable(s):

Type-C Port

SD Card port

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:

1.43 dBi declared by applicant.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25 \text{ E-8}$
Occupied Bandwidth(99%)	$\pm 0.274\%$
Spread spectrum Bandwidth(90%)	$\pm 0.274\%$
Antenna Power	$\pm 0.75\text{dB}$
Spurious emission Intensity	$\pm 0.75\text{dB}$
Limit of secondary radiated emissions	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than U_{Cispr} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty). Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.	

4.4 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.



4.5 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

RF conducted test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Cal. Body	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	2024-11-02	2025-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2024-08-19	2025-08-18	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	Cal. Body	Cal. Law
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02	CEPREI	Article 24-2, Paragraph 4 of the Radio Act

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6 Radio Spectrum Technical Requirement

6.1 E.U.T. Test Conditions

Power supply:

INPUT: DC 14.4 V; The RF unit supplied by 4.0 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 14.4 V, DC 12.96 V and DC 15.84 V.

The measurement result of the voltage fluctuation at RF circuit when DC 14.4 V $\pm 10\%$.

Mains input	Measured value	Voltage Deviation
DC 14.4 V	4.0 V	0 %
DC 12.96 V	4.0 V	0 %
DC 15.84 V	4.0 V	0 %

Temperature:

-20.0 -55.0 °C

Humidity:

45-85 % RH

Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

If the EUT can be set to 3 of 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.



6.2 Antenna Requirement

6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

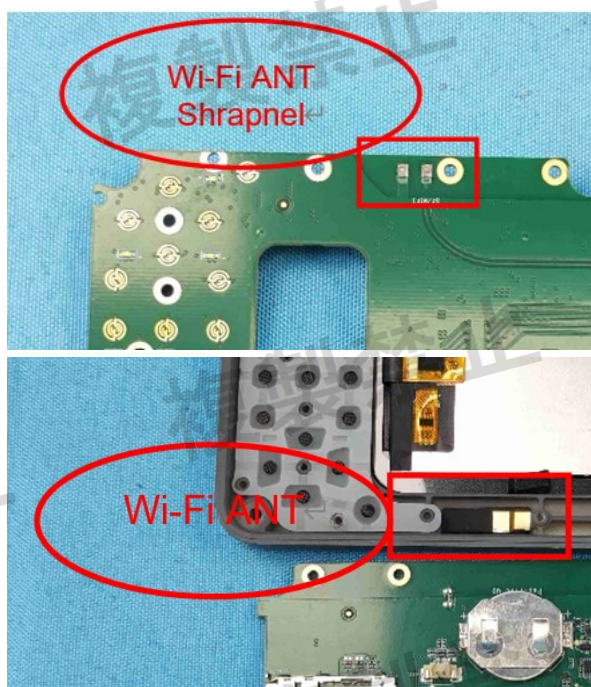
6.2.2 Conclusion

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 1.43 dBi.



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

6.3 Interference prevention capability

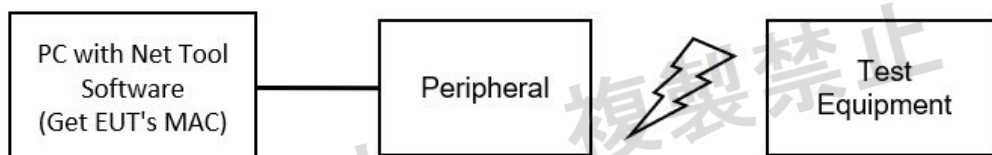
6.3.1 Test Requirement

MIC Item 19 of Article 2 Paragraph 1

Limit:

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

6.3.2 Test Setup Diagram



6.3.3 Conclusion

Test Procedure:

- 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 code.
 - a. Transmit the predetermined identification codes form the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other thanpredetemmined ID codes form the counterpart.
 - d. check if the EUT stops the transmission. or if itdisplays that identification codes are different from t he predetermined ones.

MAC address: **E2:34:C1:65:21:B2**

EUT Details: The unit does meet the requirements (Good).



6.4 RF accessibility

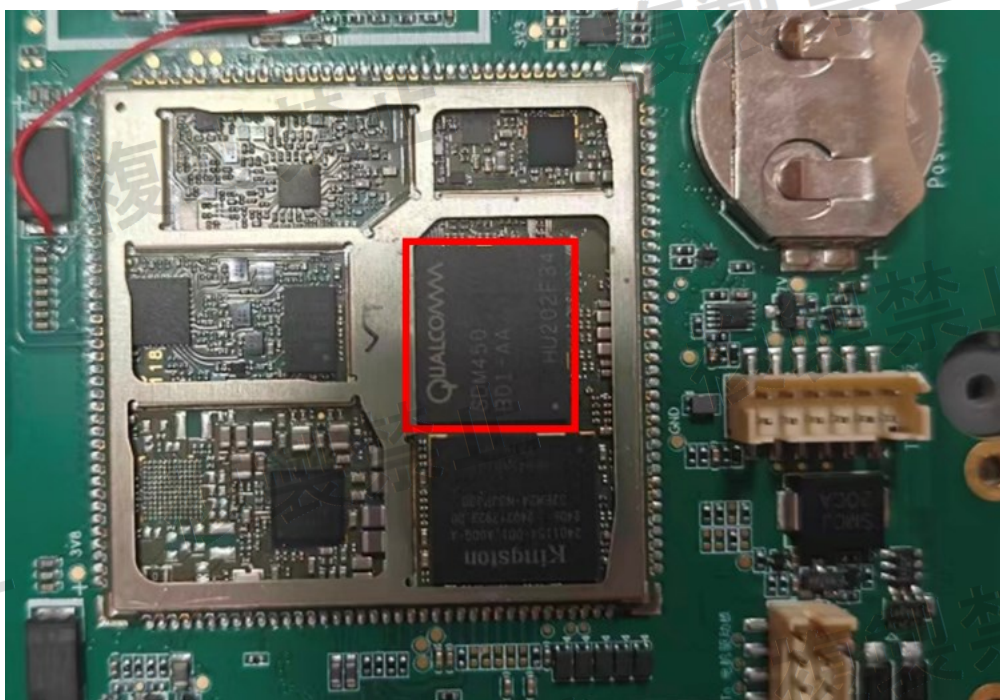
6.4.1 Test Requirement:

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.

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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: $\pm 50\text{E-6}$

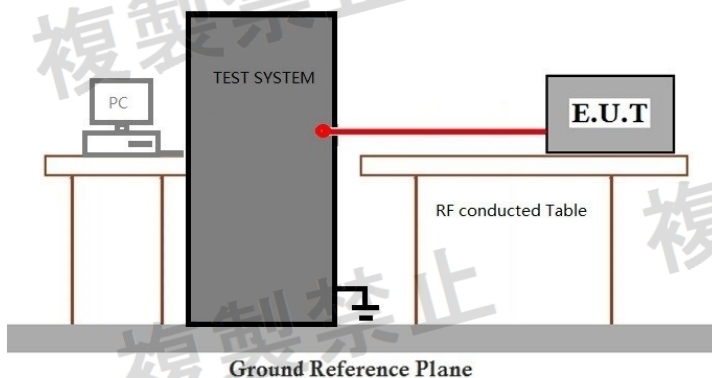
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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.

7.1.3 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 OFDM: 40MHz or less Others: 26MHz or less

7.2.1 E.U.T. Operation

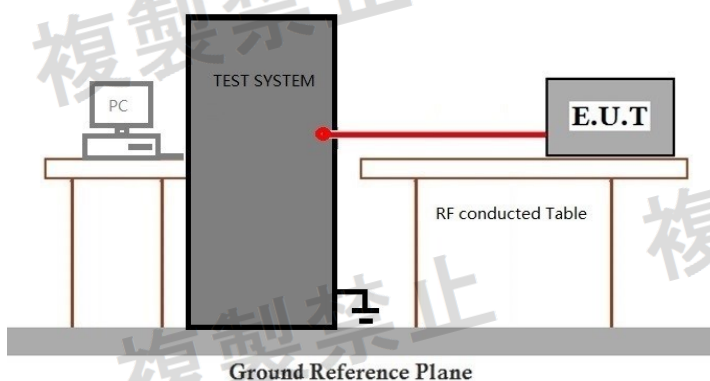
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

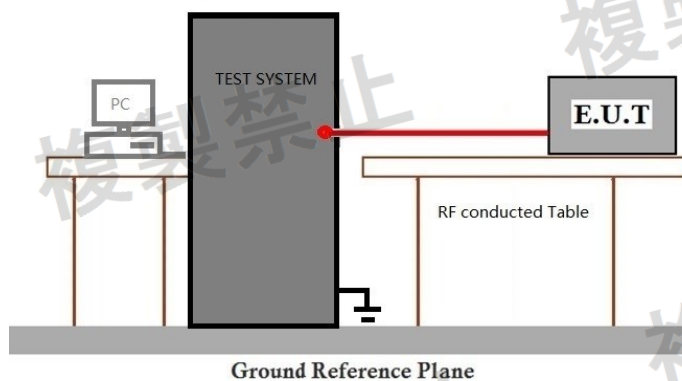
7.3.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

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



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%

E.I.R.P:

(1) DS, OFDM: 12.14 dBm/MHz

(2) FH, DS+FH, FH+OFDM: 6.91 dBm /MHz
(used in the range of 2400 - 2483.5 MHz)

12.14 dBm /MHz

(used in the range of 2,427 - 2,470.75 MHz)

(3) Other than (1) & (2) 12.14 dBm/MHz.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode DescriptionPre-scan / Mode
Final test Code

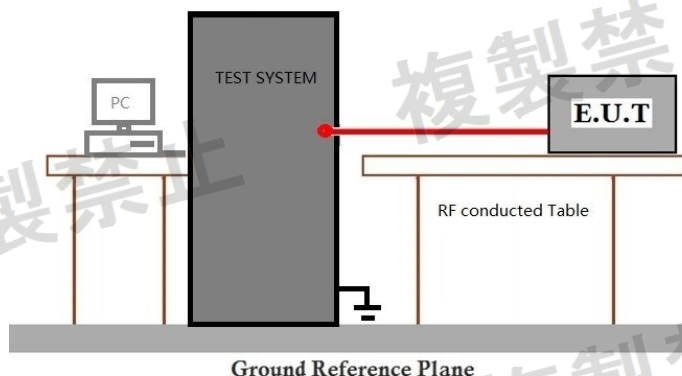
Description

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

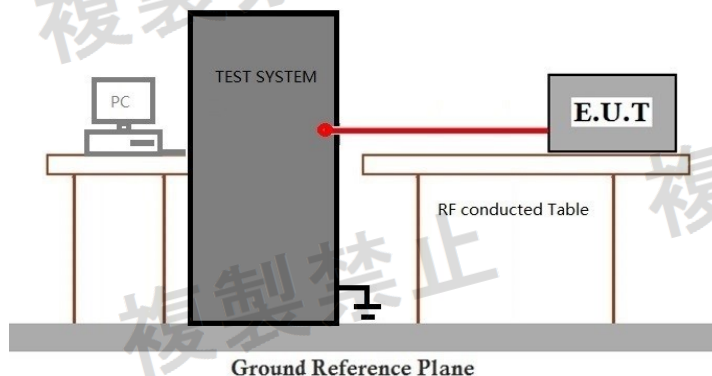
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % 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



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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: 24.0 °C

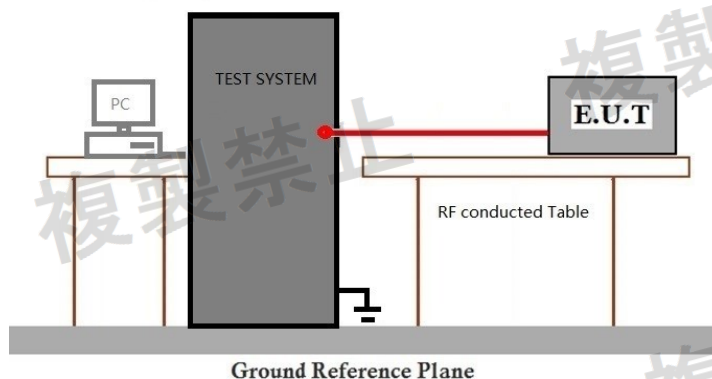
Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
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



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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



7.7 Number of Carrier

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	1 or more / MHz

7.7.1 E.U.T. Operation

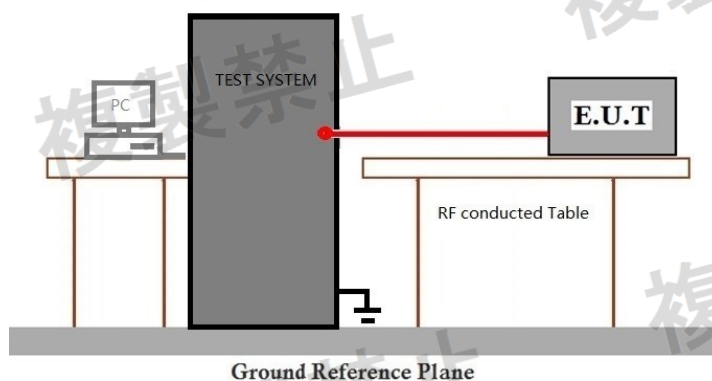
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	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.
Final test 02	

7.7.3 Test Setup Diagram



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7.7.1 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

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

3. Spectrum Analyzer conditions:

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

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

Sweep Time: Auto

Sweep Mode: continuous sweep

Detector Mode: Positive peak

Indication mode: Max hold

Test Result:

This device has more than 1 subcarrier in 1MHz, compliances with the requirement.



8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR250300029801 & GZCR250300029802

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2503000298AT



10 Appendix

1. Frequency Error

1.1 Test Result

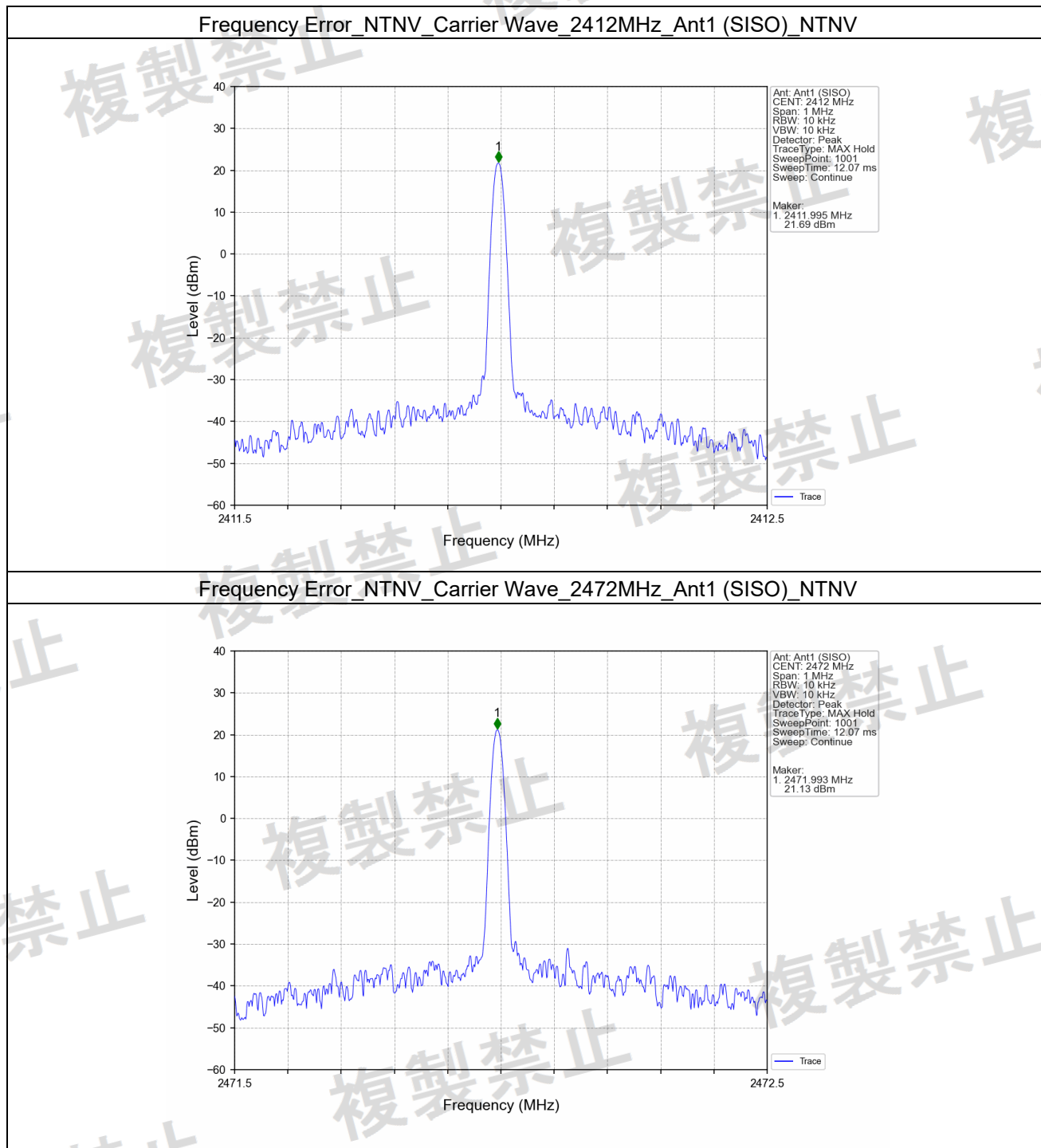
1.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2412	2411.995	-2.07	-50 to 50	Pass
			2472	2471.993	-2.83	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2412	2411.995	-2.07	-50 to 50	Pass
			2472	2471.993	-2.83	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2412	2411.994	-2.49	-50 to 50	Pass
			2472	2471.993	-2.83	-50 to 50	Pass



1.2 Test Graph

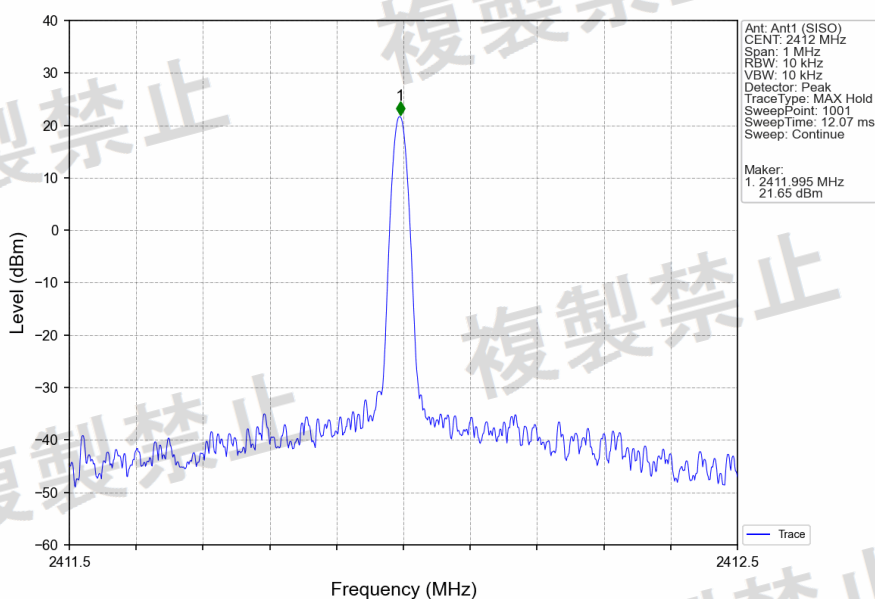
1.2.1 Ant1



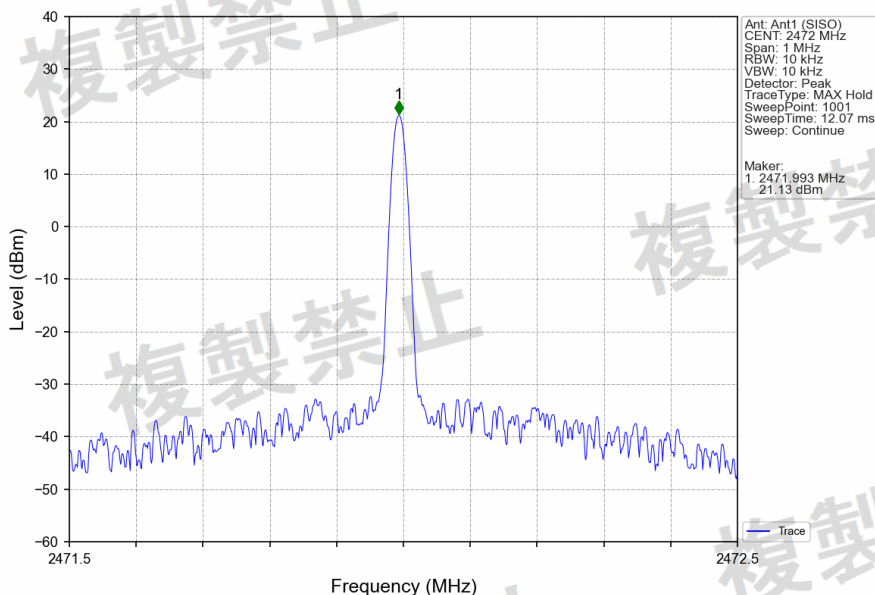
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Frequency Error_NTLV_Carrier Wave_2412MHz_Ant1 (SISO)_NTLV



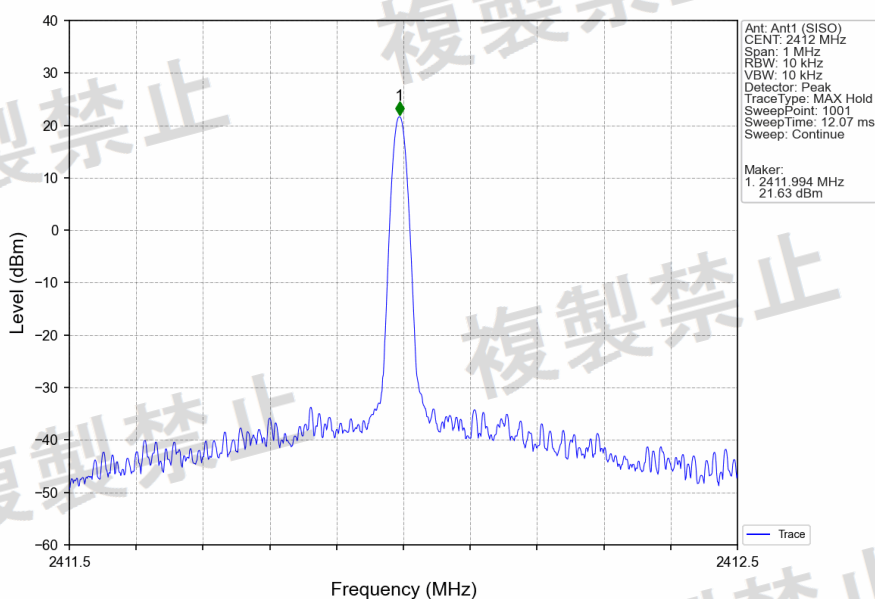
Frequency Error_NTLV_Carrier Wave_2472MHz_Ant1 (SISO)_NTLV



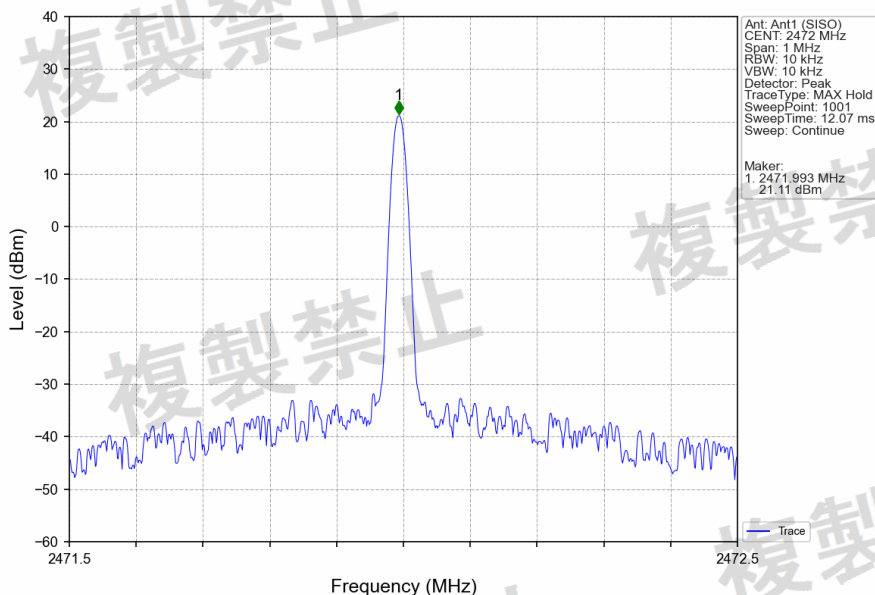
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Frequency Error_NTHV_Carrier Wave_2412MHz_Ant1 (SISO)_NTHV



Frequency Error_NTHV_Carrier Wave_2472MHz_Ant1 (SISO)_NTHV



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2. Occupied Bandwidth

2.1 Test Result

2.1.1 OBW

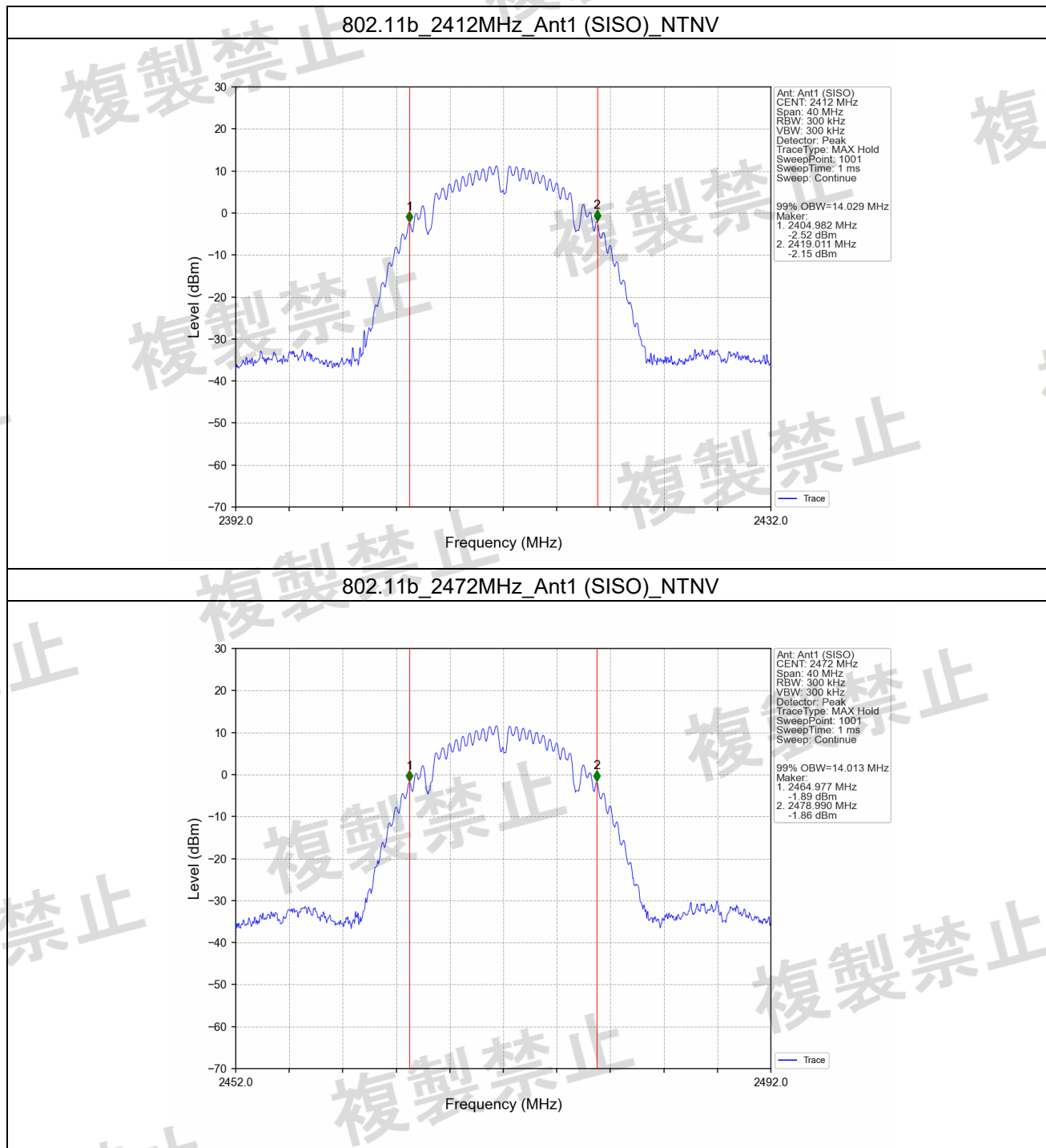
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	14.029	≤ 26	Pass
			2472	14.013	≤ 26	Pass
	802.11g	SISO	2412	16.828	≤ 40	Pass
			2472	16.827	≤ 40	Pass
	802.11n (HT20)	SISO	2412	18.001	≤ 40	Pass
			2472	17.883	≤ 40	Pass
NTLV	802.11b	SISO	2412	14.110	≤ 26	Pass
			2472	14.090	≤ 26	Pass
	802.11g	SISO	2412	16.847	≤ 40	Pass
			2472	16.920	≤ 40	Pass
	802.11n (HT20)	SISO	2412	18.073	≤ 40	Pass
			2472	18.018	≤ 40	Pass
NTHV	802.11b	SISO	2412	14.108	≤ 26	Pass
			2472	14.092	≤ 26	Pass
	802.11g	SISO	2412	16.841	≤ 40	Pass
			2472	16.932	≤ 40	Pass
	802.11n (HT20)	SISO	2412	18.058	≤ 40	Pass
			2472	18.040	≤ 40	Pass

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2.2 Test Graph

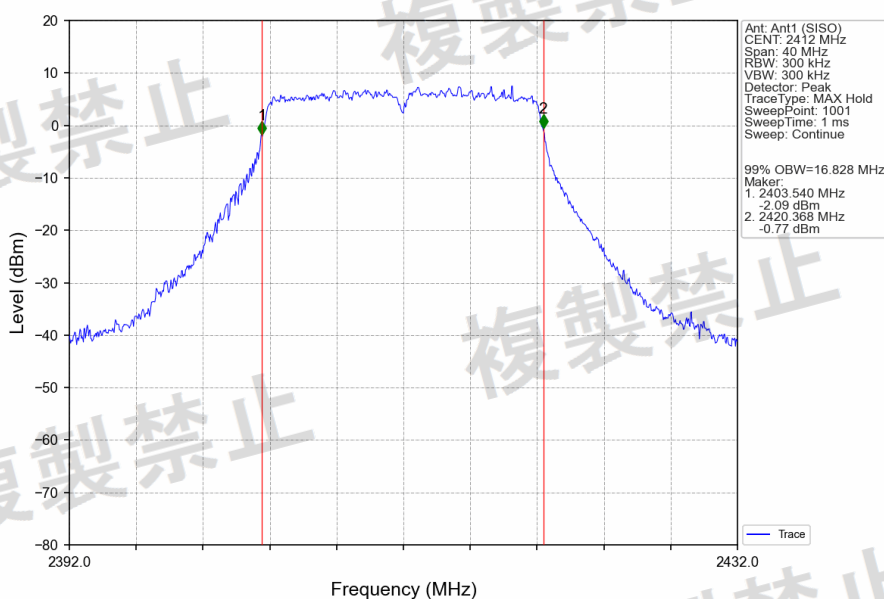
2.2.1 OBW



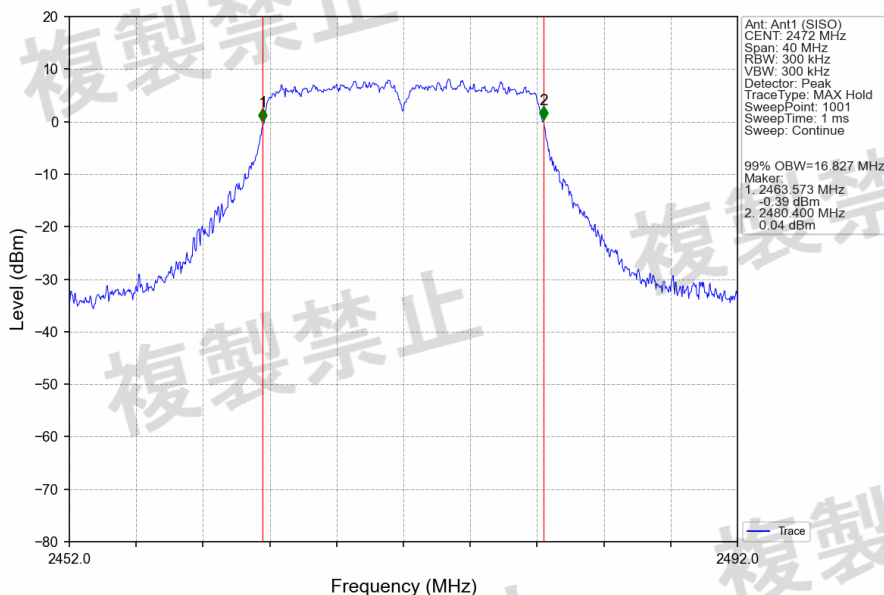
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802.11g_2412MHz_Ant1 (SISO)_NTNV



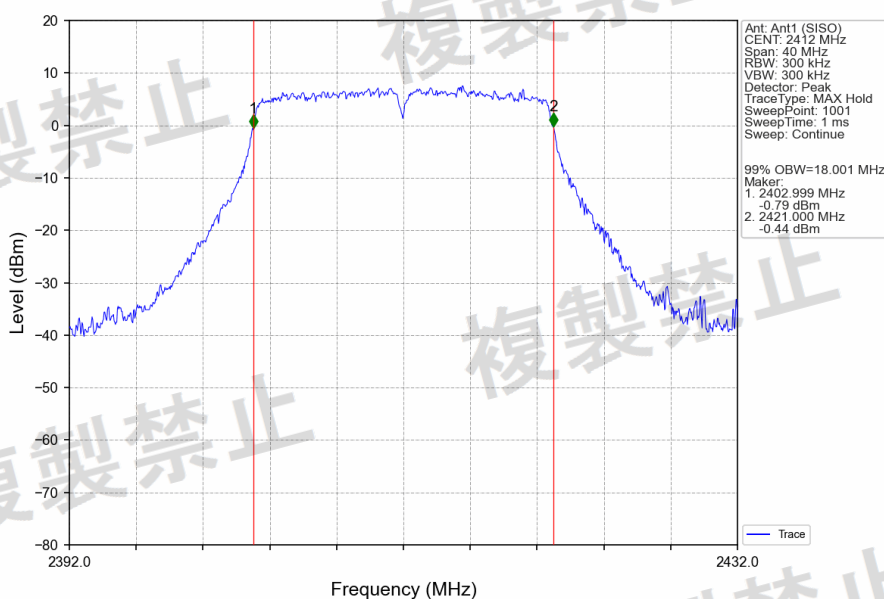
802.11g_2472MHz_Ant1 (SISO)_NTNV



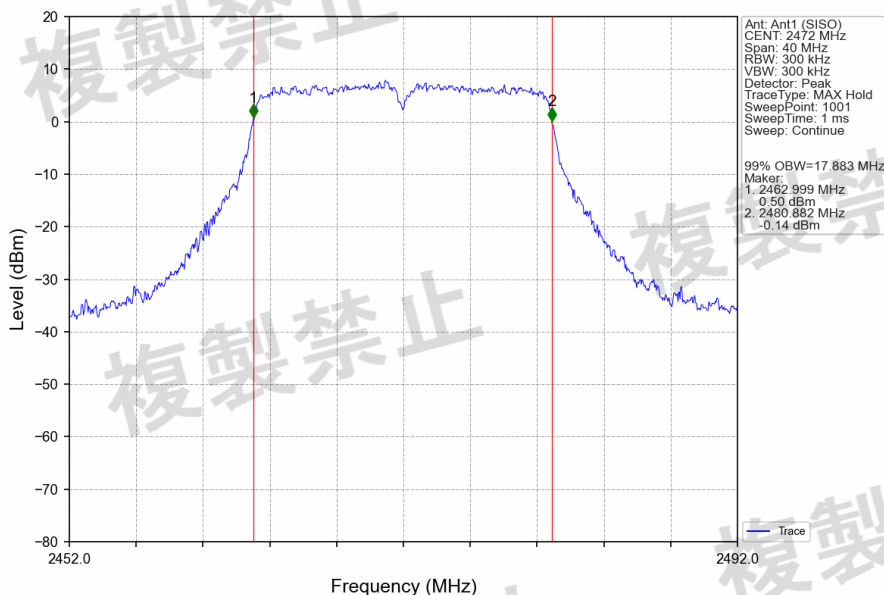
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



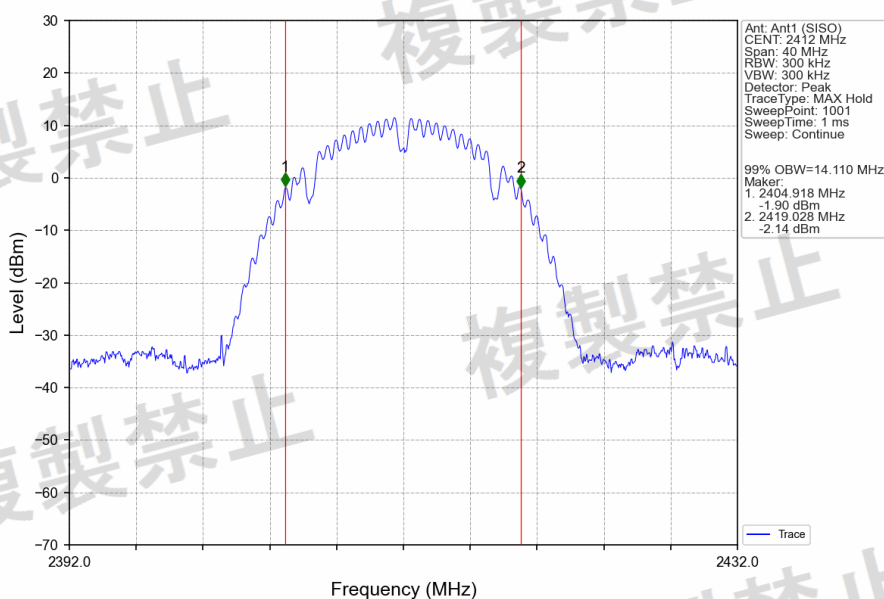
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



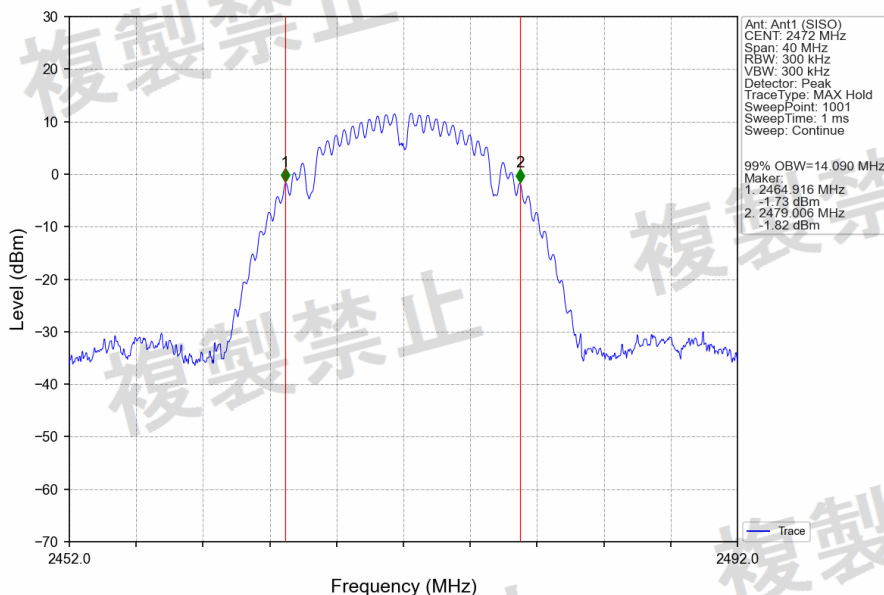
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802.11b_2412MHz_Ant1 (SISO)_NTLV



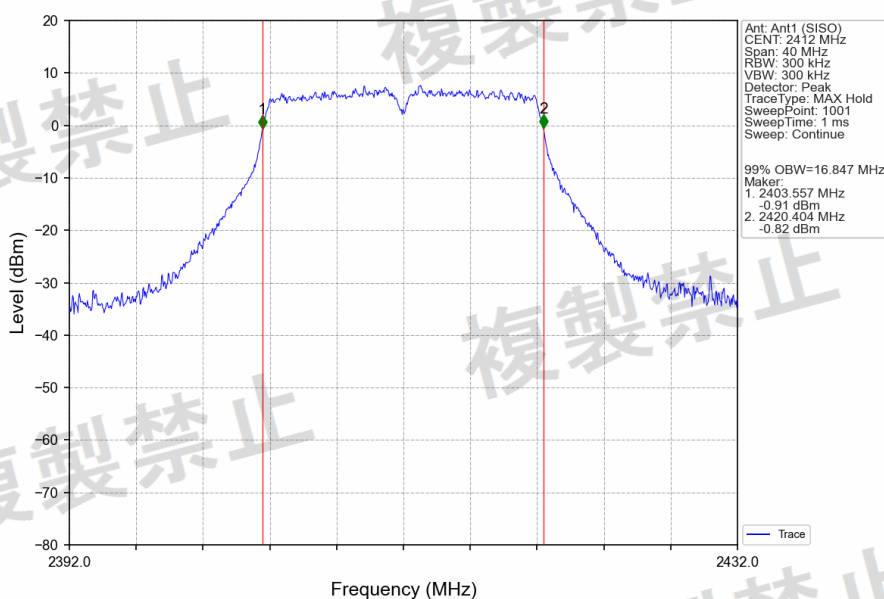
802.11b_2472MHz_Ant1 (SISO)_NTLV



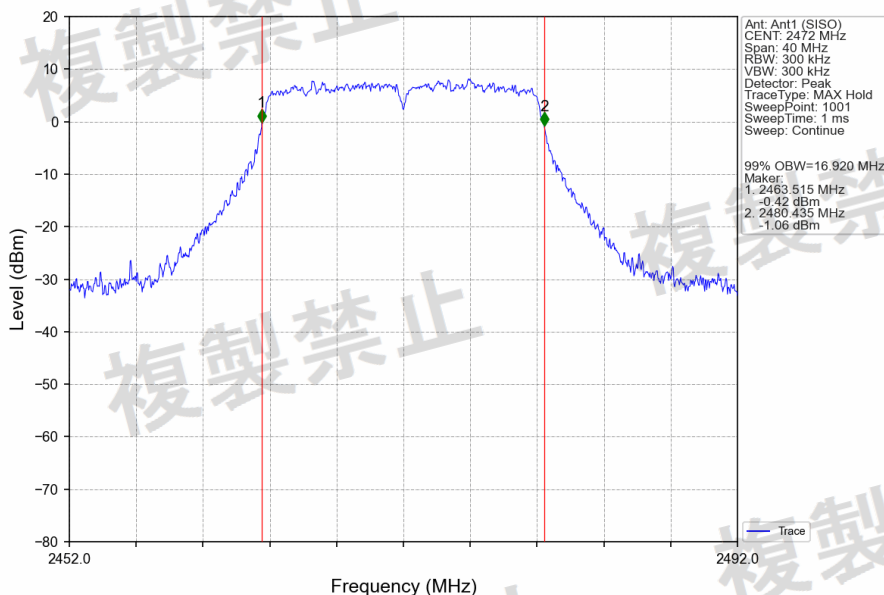
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802.11g_2412MHz_Ant1 (SISO)_NTLV



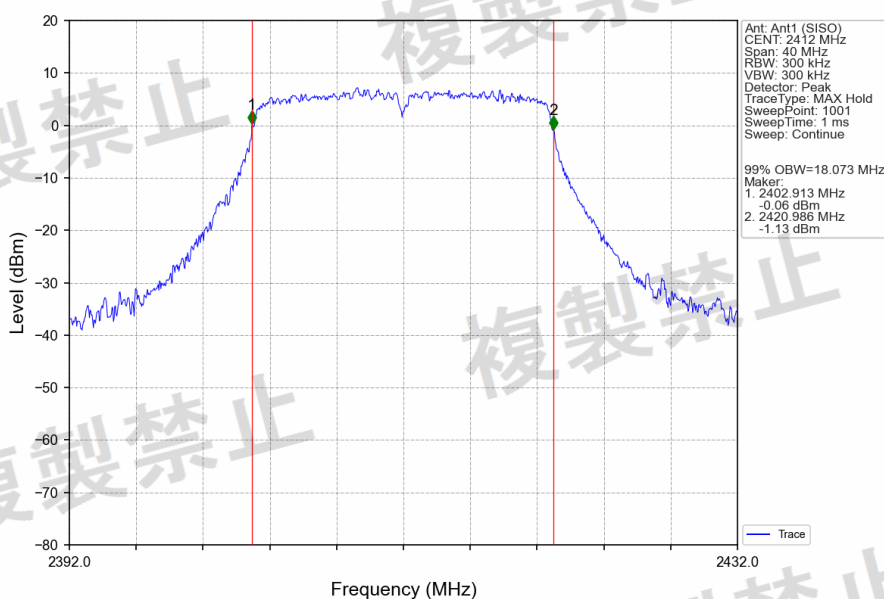
802.11g_2472MHz_Ant1 (SISO)_NTLV



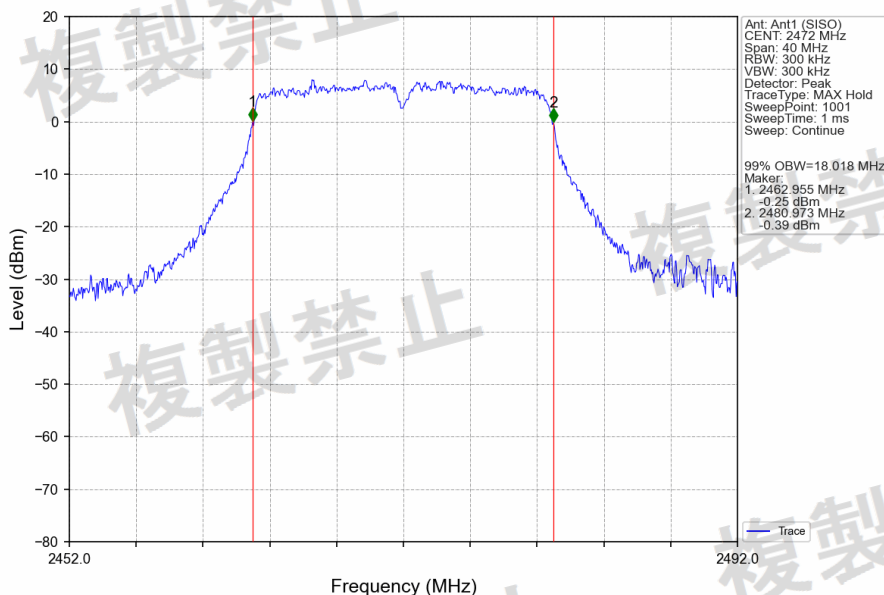
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



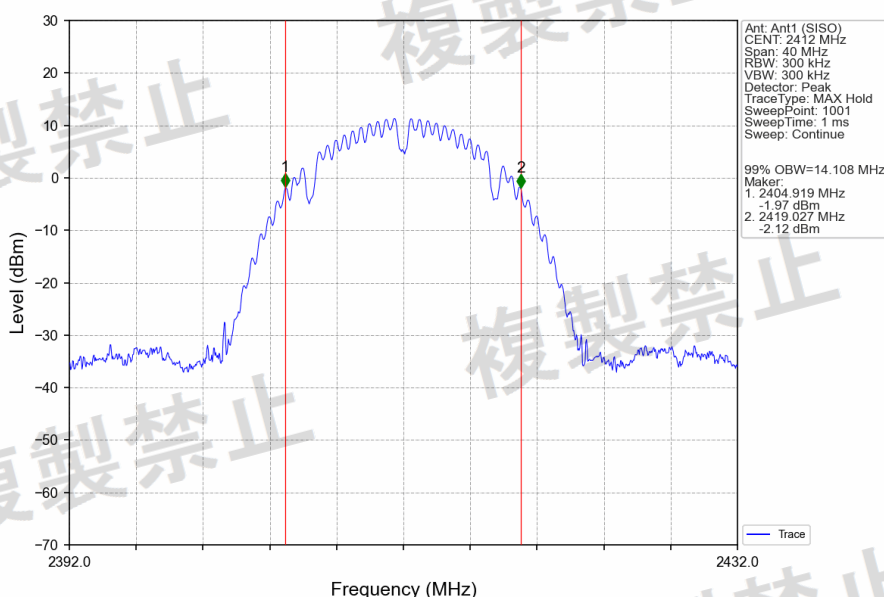
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



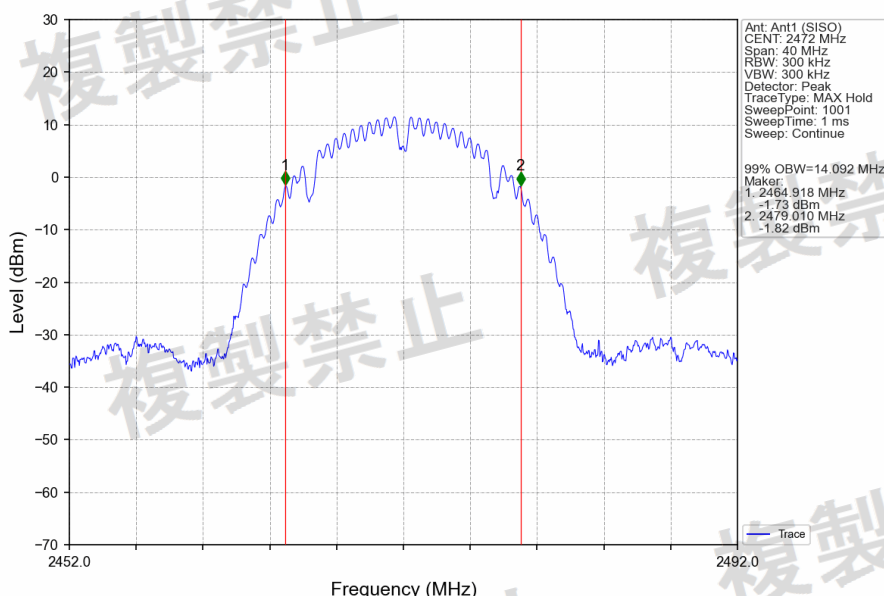
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802.11b_2412MHz_Ant1 (SISO)_NTHV



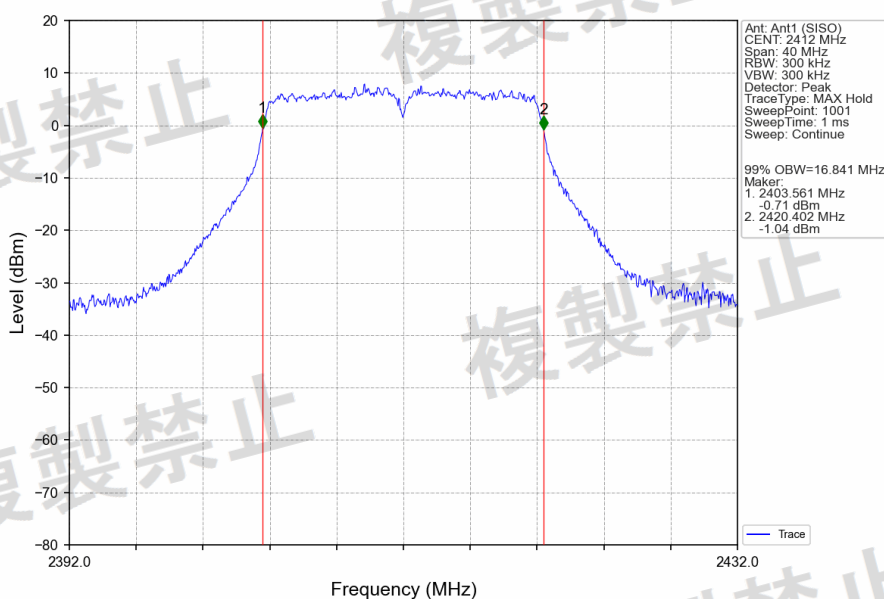
802.11b_2472MHz_Ant1 (SISO)_NTHV



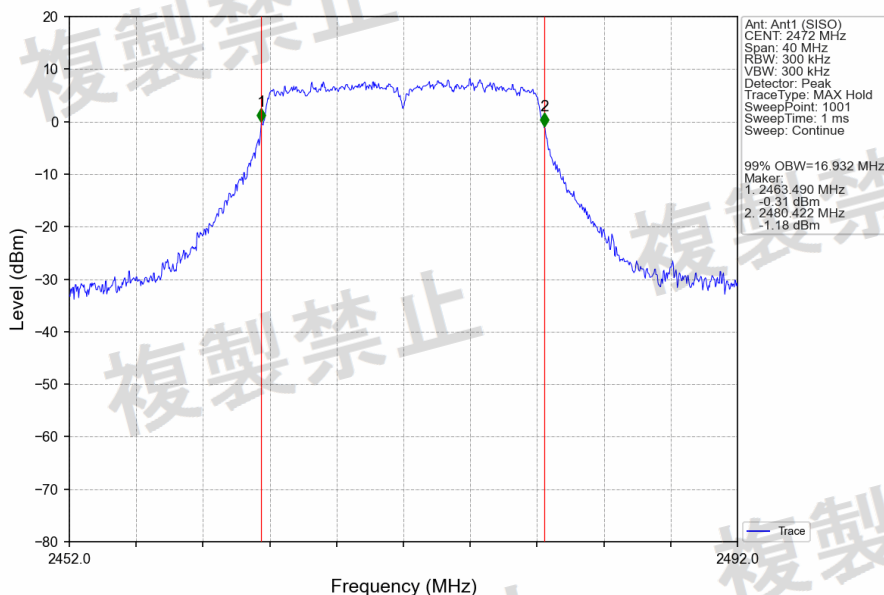
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802.11g_2412MHz_Ant1 (SISO)_NTHV



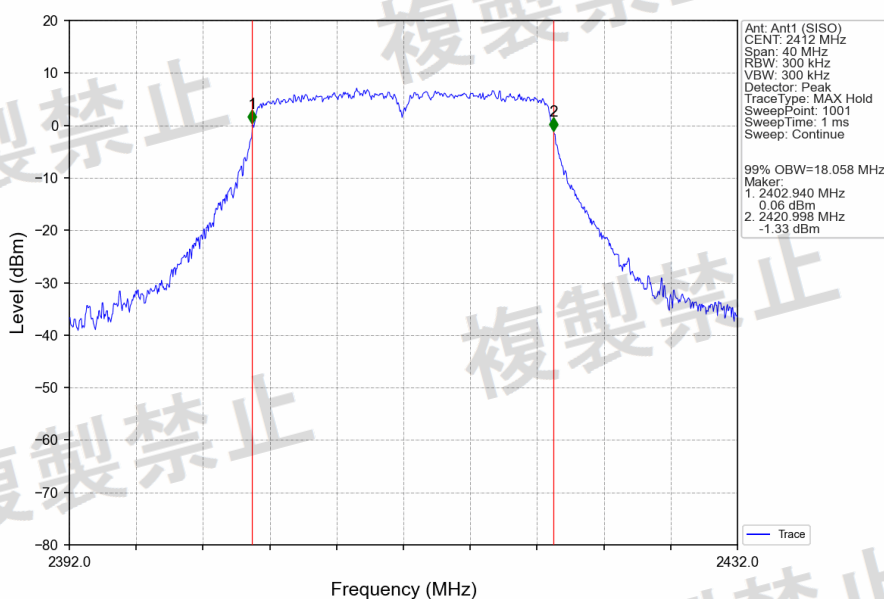
802.11g_2472MHz_Ant1 (SISO)_NTHV



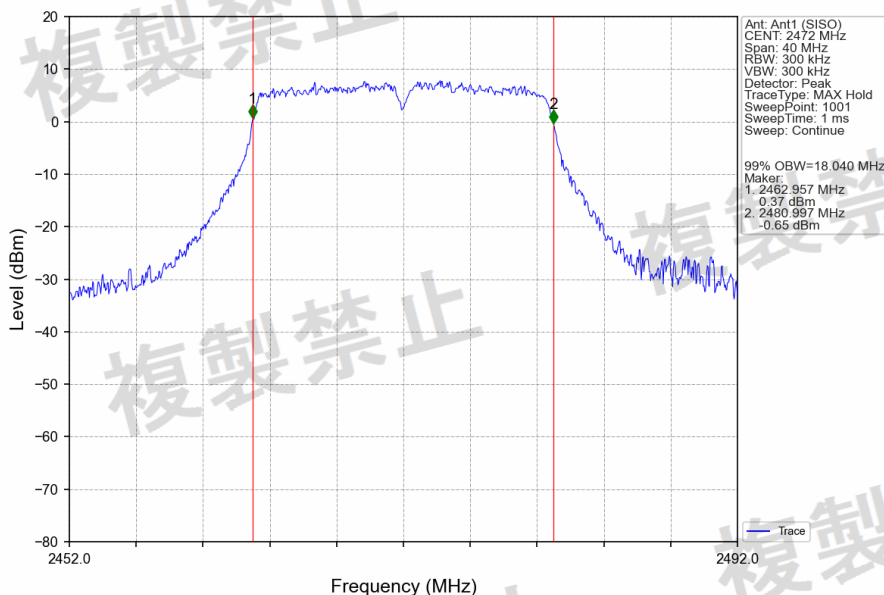
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



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3. Antenna Power & E.I.R.P

3.1 Test Result

3.1.1 Power

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	7.696	<=10.00	8.400	-8.38	<=20	Pass
			2472	1	8.432	<=10.00	8.400	0.38	<=20	Pass
	802.11g	SISO	2412	1	3.004	<=10.00	3.500	-14.17	<=20	Pass
			2472	1	3.527	<=10.00	3.500	0.77	<=20	Pass
	802.11n (HT20)	SISO	2412	1	3.036	<=10.00	3.500	-8.00	<=20	Pass
			2472	1	3.330	<=10.00	3.300	0.91	<=20	Pass
NTLV	802.11b	SISO	2412	1	8.083	<=10.00	8.500	-4.91	<=20	Pass
			2472	1	8.452	<=10.00	8.500	-0.56	<=20	Pass
	802.11g	SISO	2412	1	3.145	<=10.00	3.600	-12.64	<=20	Pass
			2472	1	3.562	<=10.00	3.600	-1.06	<=20	Pass
	802.11n (HT20)	SISO	2412	1	2.933	<=10.00	2.900	1.14	<=20	Pass
			2472	1	2.889	<=10.00	2.900	-0.38	<=20	Pass
NTHV	802.11b	SISO	2412	1	8.045	<=10.00	8.400	-4.23	<=20	Pass
			2472	1	8.431	<=10.00	8.400	0.37	<=20	Pass
	802.11g	SISO	2412	1	3.137	<=10.00	3.600	-12.86	<=20	Pass
			2472	1	3.554	<=10.00	3.600	-1.28	<=20	Pass
	802.11n (HT20)	SISO	2412	1	2.933	<=10.00	2.900	1.14	<=20	Pass
			2472	1	2.872	<=10.00	2.900	-0.97	<=20	Pass

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3.1.2 E.I.R.P

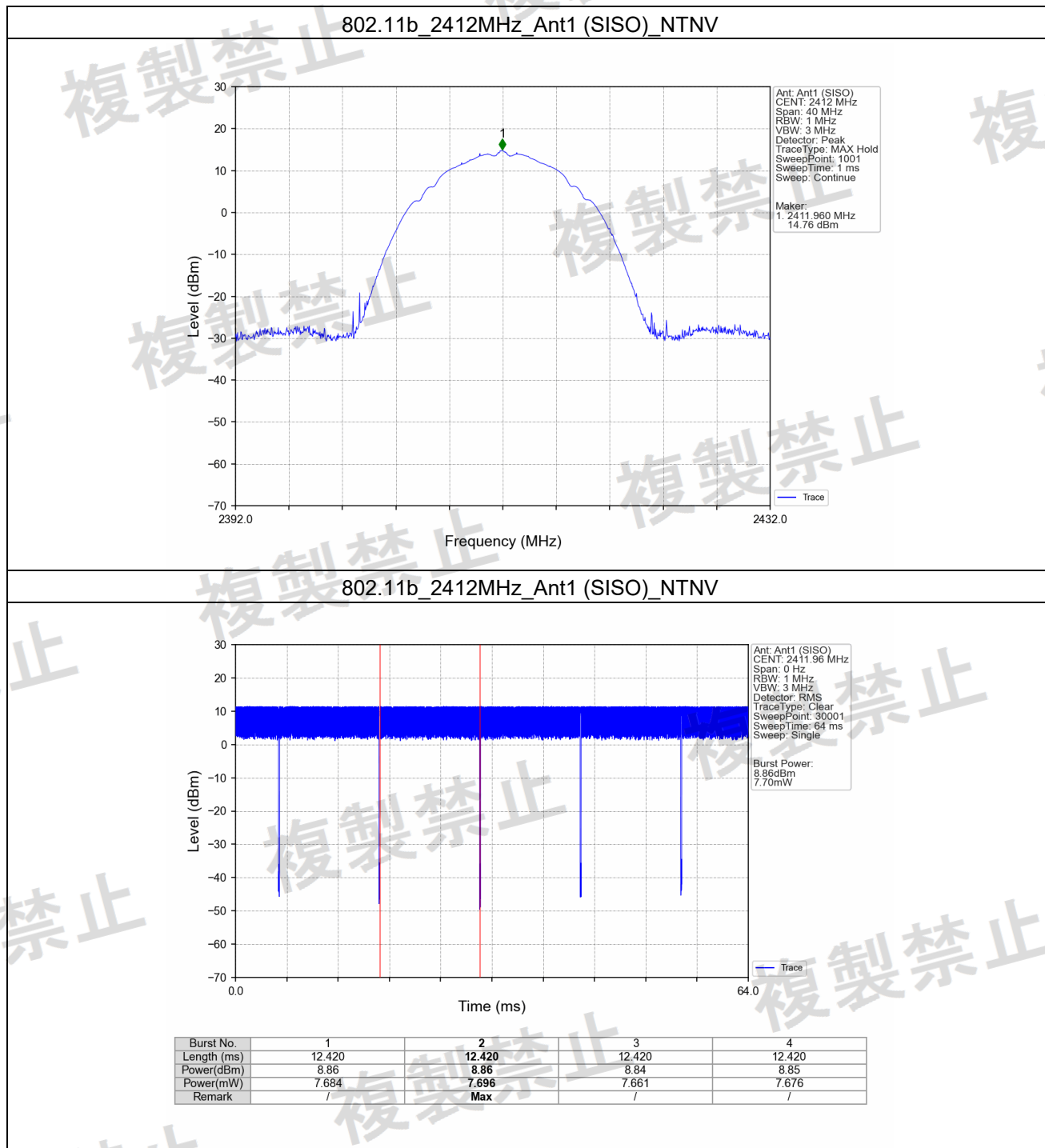
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)	Antenna Power (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NTNV	802.11b	SISO	2412	1	7.696	8.86	10.29	12.14	Pass
			2472	1	8.432	9.26	10.69	12.14	Pass
	802.11g	SISO	2412	1	3.004	4.78	6.21	12.14	Pass
			2472	1	3.527	5.47	6.90	12.14	Pass
	802.11n (HT20)	SISO	2412	1	3.036	4.82	6.25	12.14	Pass
			2472	1	3.330	5.22	6.65	12.14	Pass
NTLV	802.11b	SISO	2412	1	8.083	9.08	10.51	12.14	Pass
			2472	1	8.452	9.27	10.70	12.14	Pass
	802.11g	SISO	2412	1	3.145	4.98	6.41	12.14	Pass
			2472	1	3.562	5.52	6.95	12.14	Pass
	802.11n (HT20)	SISO	2412	1	2.933	4.67	6.10	12.14	Pass
			2472	1	2.889	4.61	6.04	12.14	Pass
NTHV	802.11b	SISO	2412	1	8.045	9.06	10.49	12.14	Pass
			2472	1	8.431	9.26	10.69	12.14	Pass
	802.11g	SISO	2412	1	3.137	4.97	6.40	12.14	Pass
			2472	1	3.554	5.51	6.94	12.14	Pass
	802.11n (HT20)	SISO	2412	1	2.933	4.67	6.10	12.14	Pass
			2472	1	2.872	4.58	6.01	12.14	Pass
Antenna Gain: 1.43 dBi									

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3.2 Test Graph

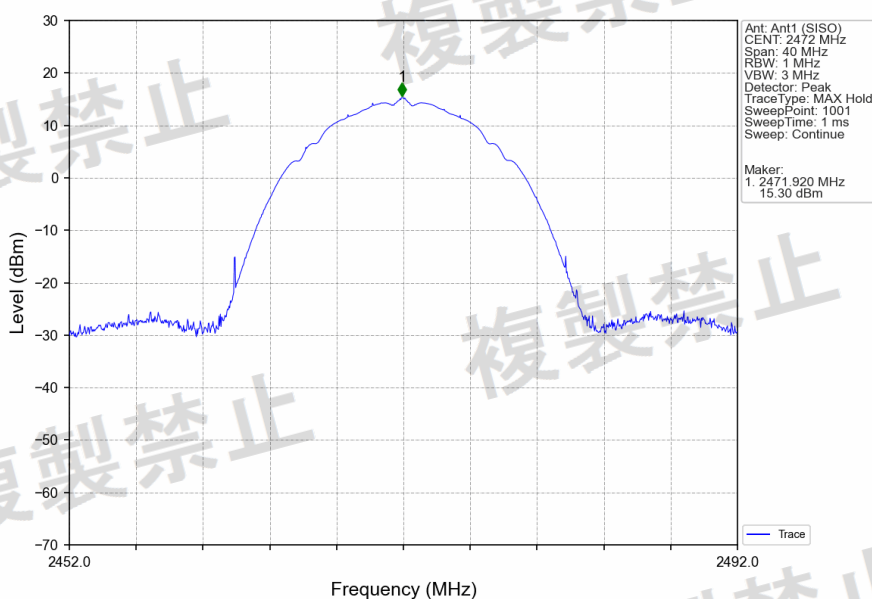
3.2.1 Power



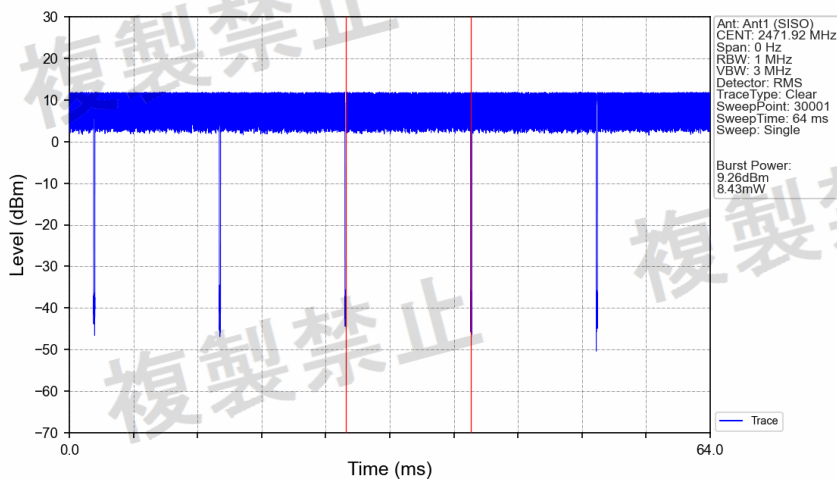
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

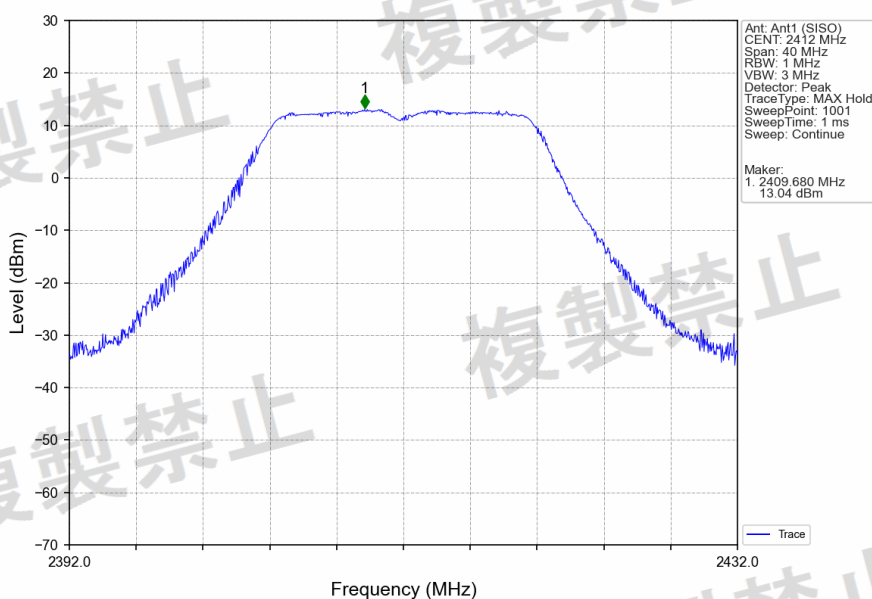


Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	9.25	9.20	9.26	9.21
Power(mW)	8.405	8.313	8.432	8.337
Remark	/	/	Max	/

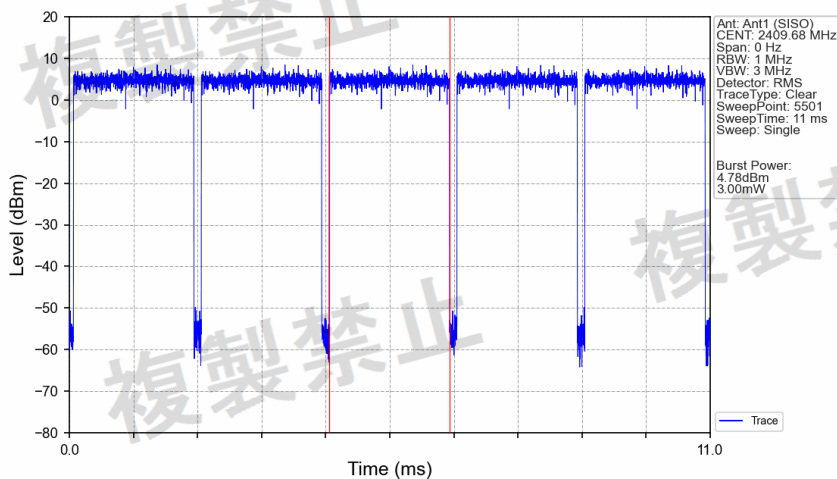
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

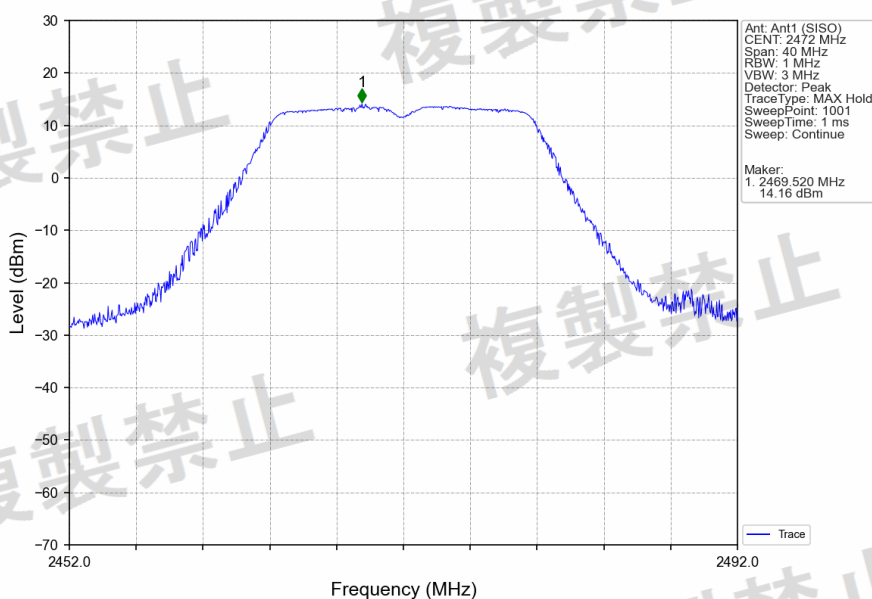


Burst No.	1	2	3	4	5
Length (ms)	2.066	2.064	2.066	2.064	2.066
Power (dBm)	4.77	4.77	4.78	4.77	4.77
Power (mW)	2.998	3.002	3.004	3.002	3.001
Remark	/	/	Max	/	/

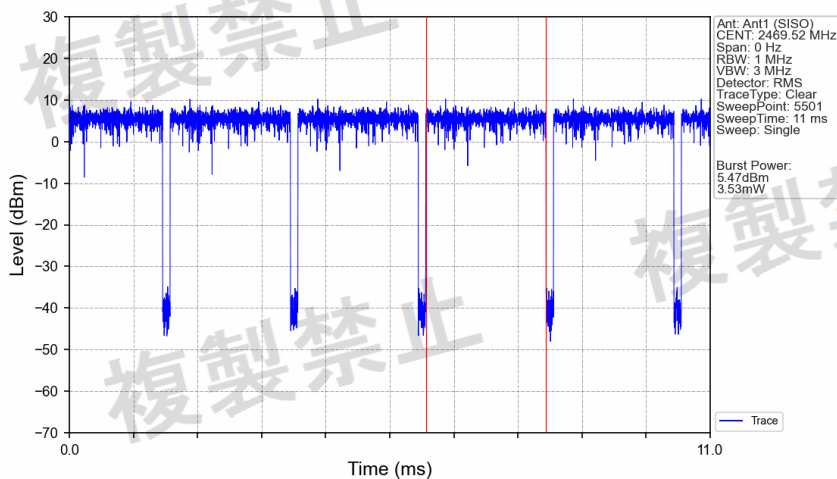
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

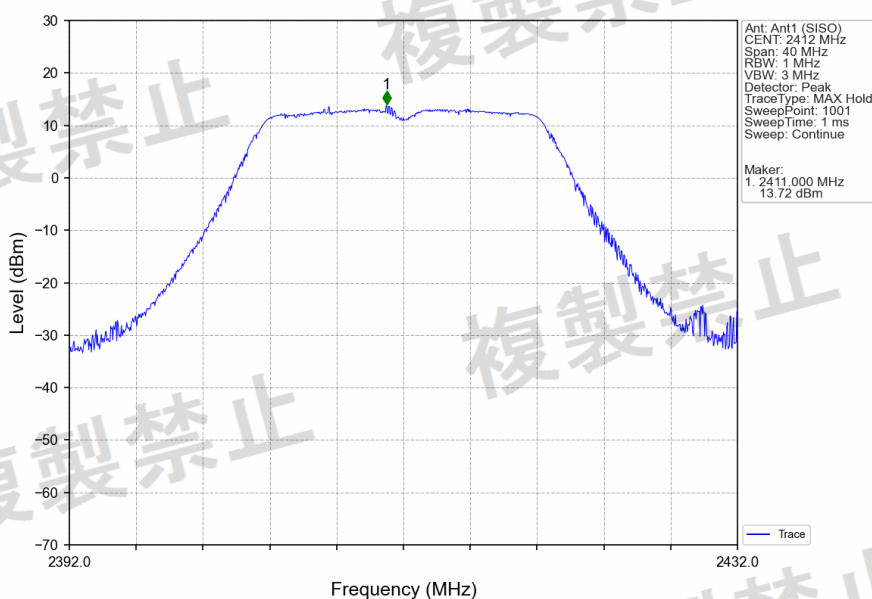


Burst No.	1	2	3	4
Length (ms)	2.064	2.064	2.064	2.064
Power (dBm)	5.47	5.47	5.47	5.47
Power (mW)	3.527	3.524	3.527	3.526
Remark	/	/	Max	/

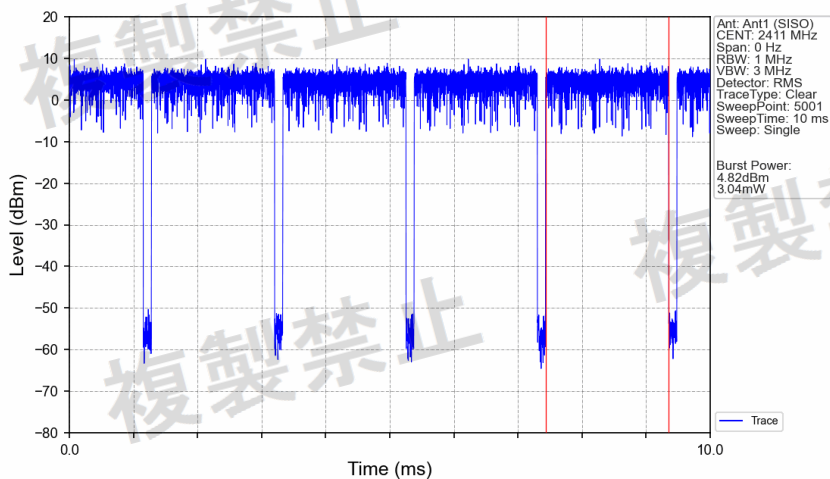
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

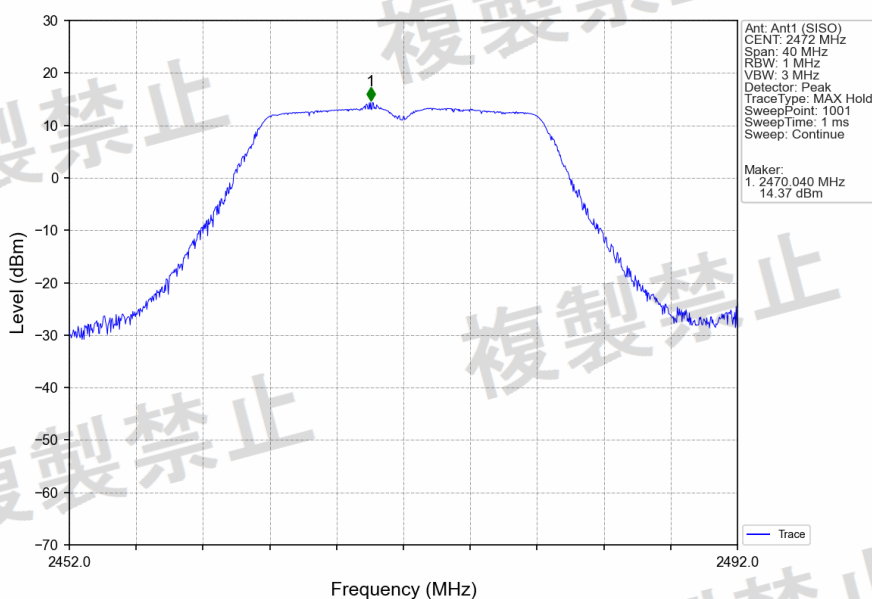


Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.922
Power(dBm)	4.82	4.82	4.82	4.82
Power(mW)	3.033	3.031	3.033	3.036
Remark	/	/	/	Max

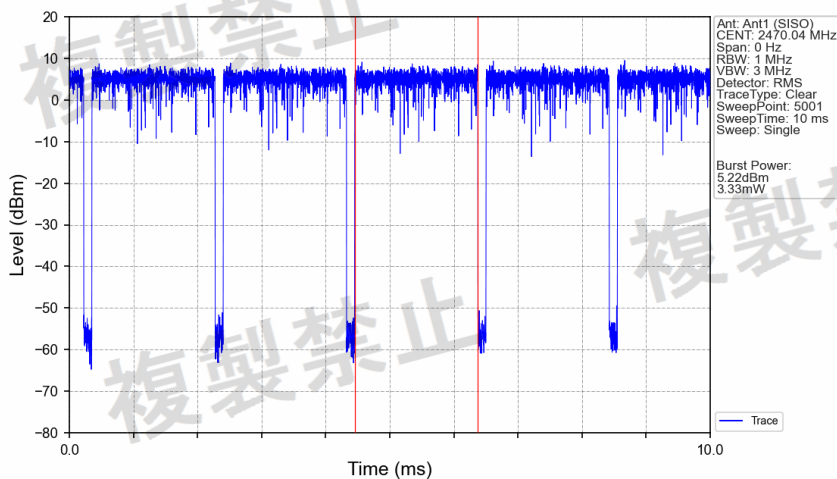
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

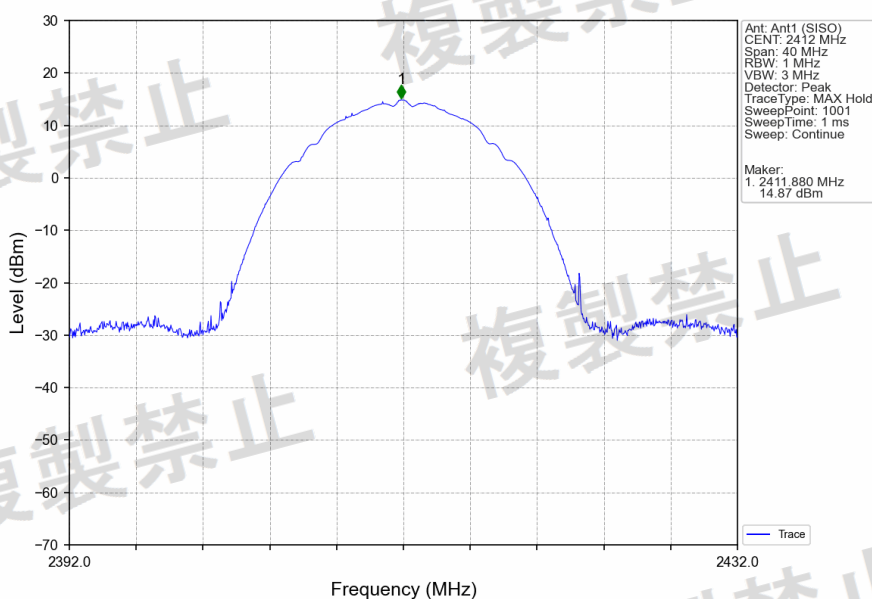


Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.922
Power(dBm)	5.22	5.22	5.22	5.22
Power(mW)	3.329	3.326	3.330	3.325
Remark	/	/	Max	/

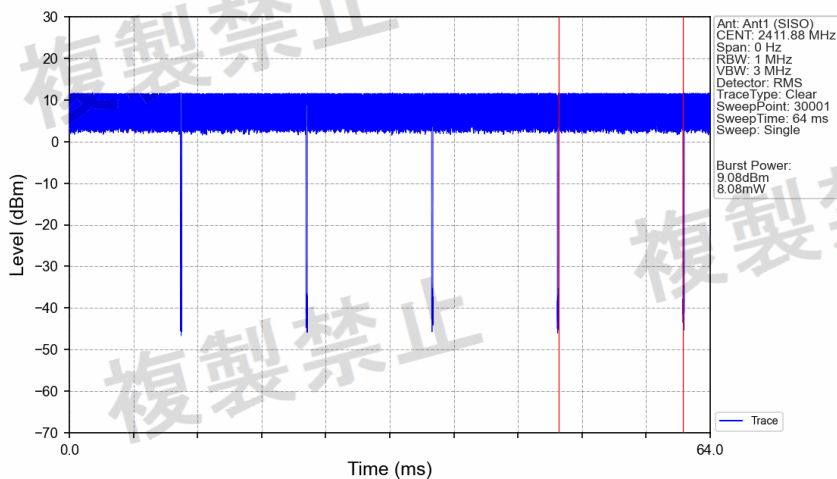
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802.11b_2412MHz_Ant1 (SISO)_NTLV



802.11b_2412MHz_Ant1 (SISO)_NTLV

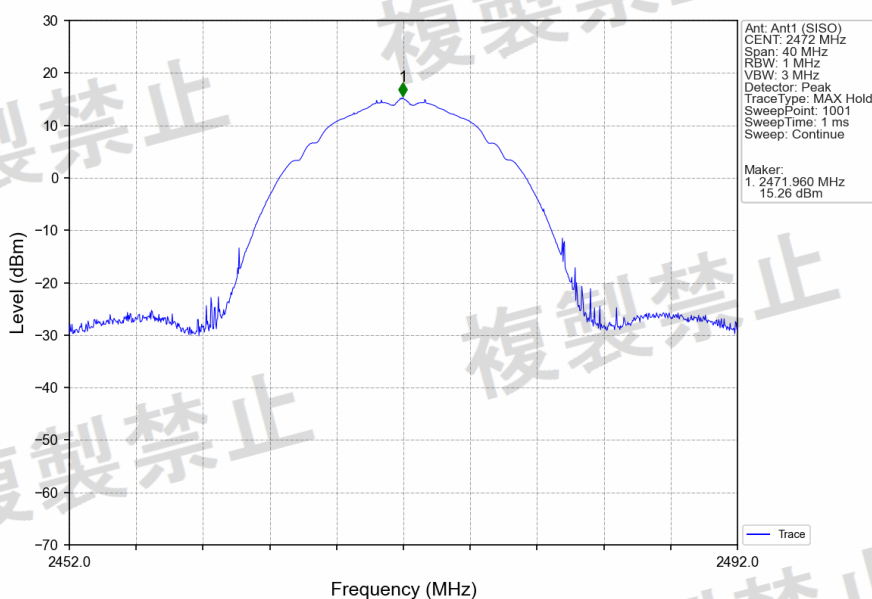


Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	9.05	9.04	9.06	9.08
Power(mW)	8.037	8.021	8.060	8.083
Remark	/	/	/	Max

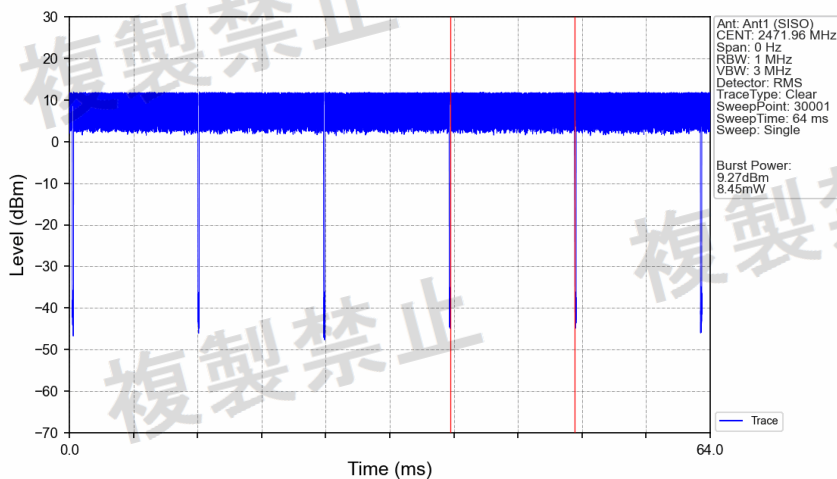
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802.11b_2472MHz_Ant1 (SISO)_NTLV



802.11b_2472MHz_Ant1 (SISO)_NTLV

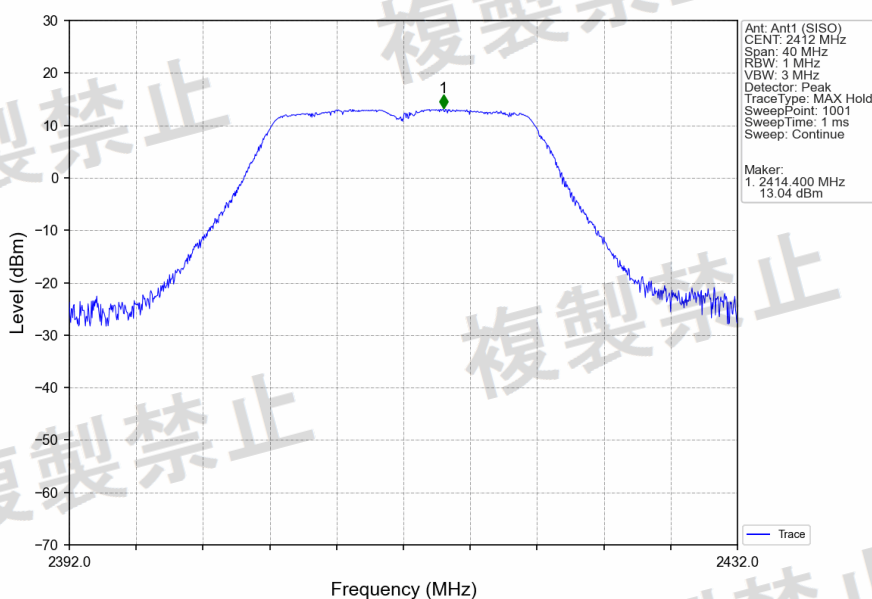


Burst No.	1	2	3	4	5
Length (ms)	12.420	12.420	12.420	12.420	12.420
Power(dBm)	9.18	9.20	9.24	9.27	9.20
Power(mW)	8.280	8.322	8.397	8.452	8.315
Remark	/	/	/	Max	/

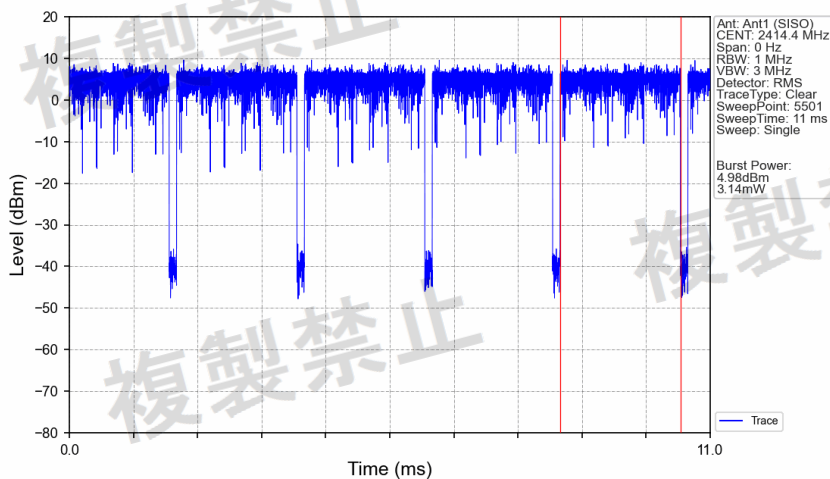
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802.11g_2412MHz_Ant1 (SISO)_NTLV



802.11g_2412MHz_Ant1 (SISO)_NTLV

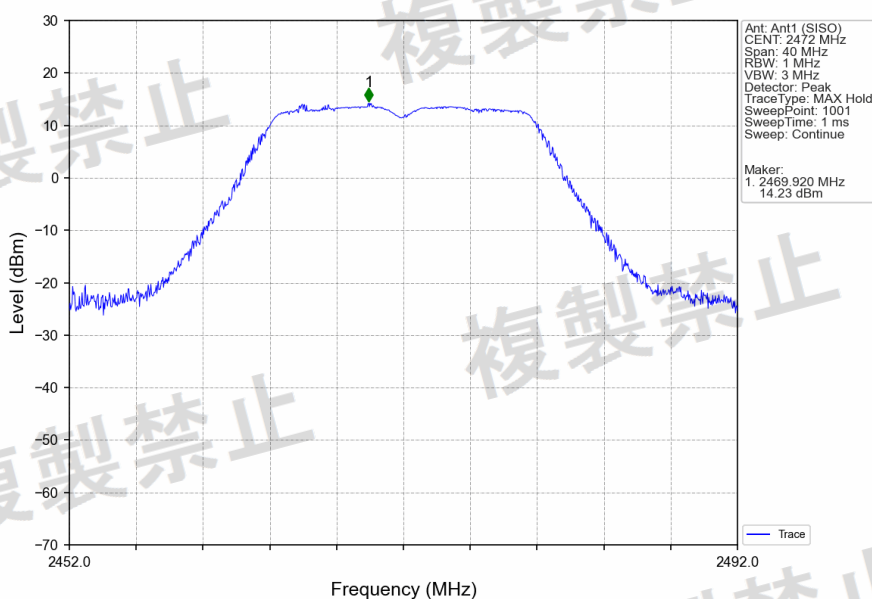


Burst No.	1	2	3	4
Length (ms)	2.064	2.064	2.064	2.064
Power (dBm)	4.97	4.97	4.97	4.98
Power (mW)	3.142	3.144	3.142	3.145
Remark	/	/	/	Max

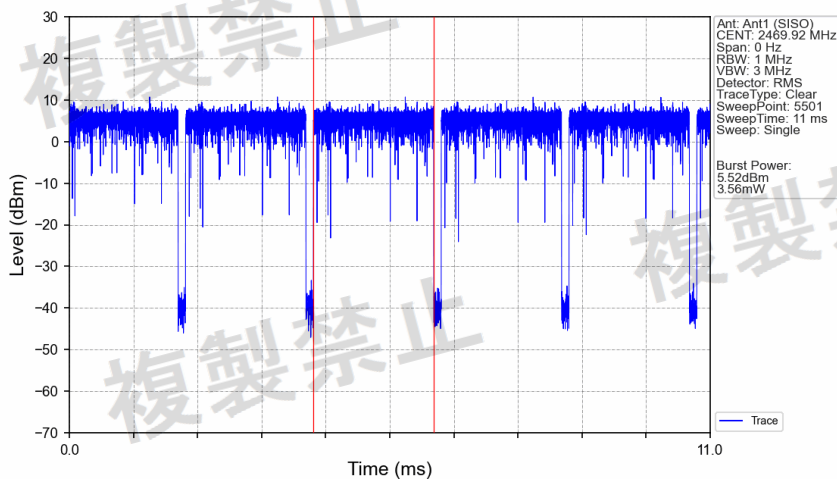
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802.11g_2472MHz_Ant1 (SISO)_NTLV



802.11g_2472MHz_Ant1 (SISO)_NTLV

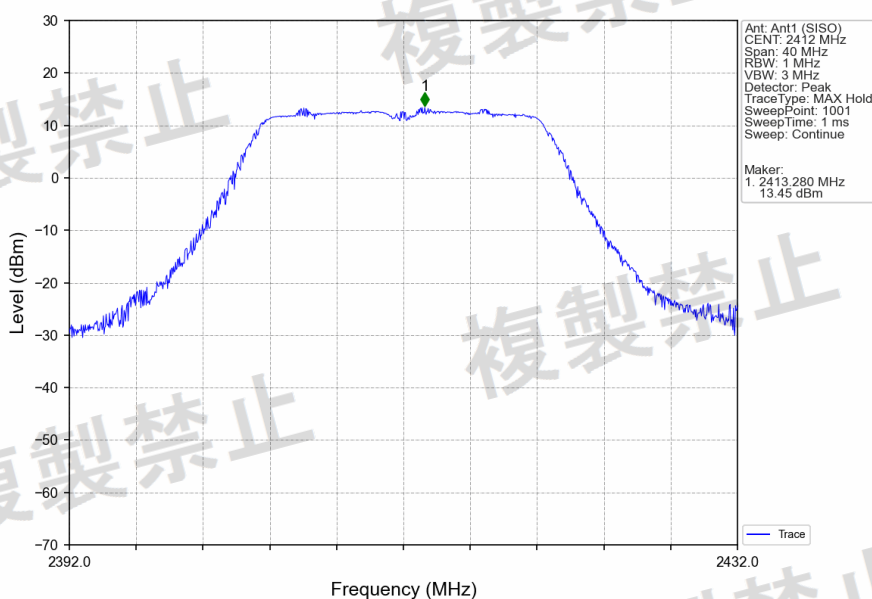


Burst No.	1	2	3	4
Length (ms)	2.064	2.064	2.064	2.064
Power (dBm)	5.51	5.52	5.51	5.51
Power (mW)	3.557	3.562	3.557	3.555
Remark	/	Max	/	/

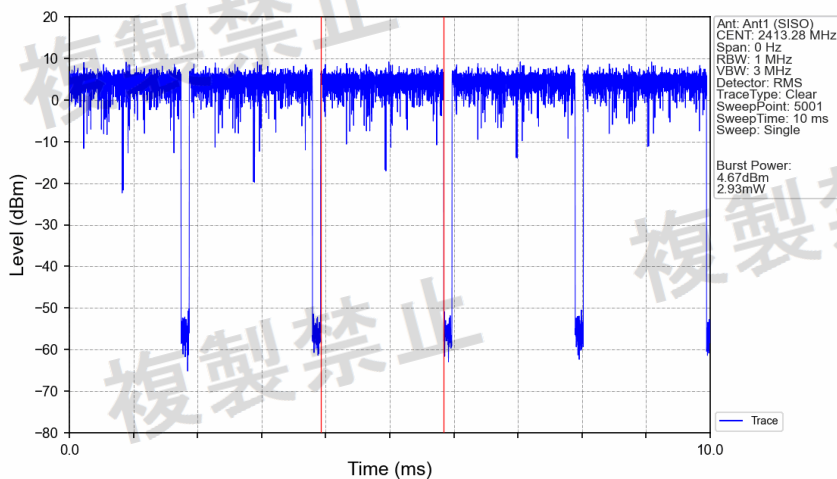
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV

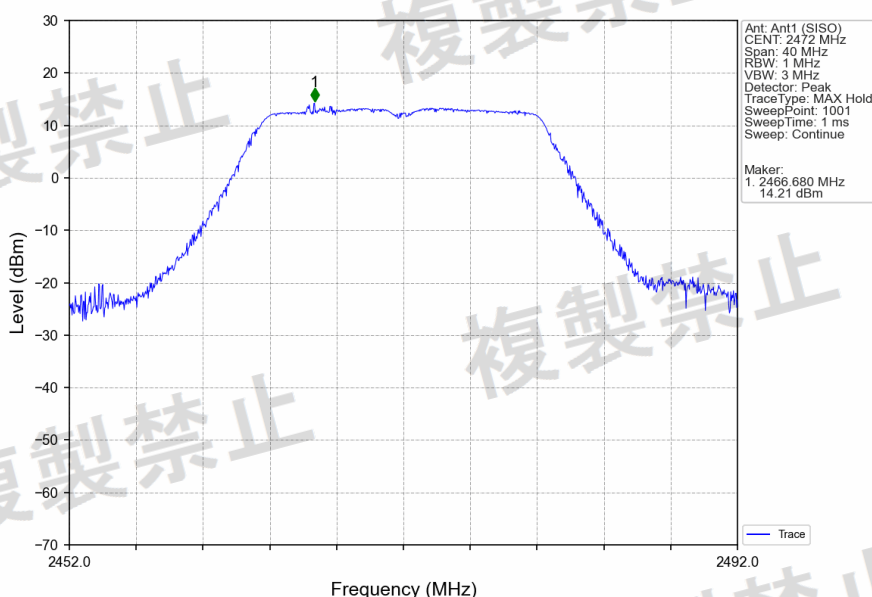


Burst No.	1	2	3	4
Length (ms)	1.920	1.920	1.920	1.920
Power (dBm)	4.67	4.67	4.67	4.67
Power (mW)	2.933	2.933	2.933	2.933
Remark	/	Max	/	/

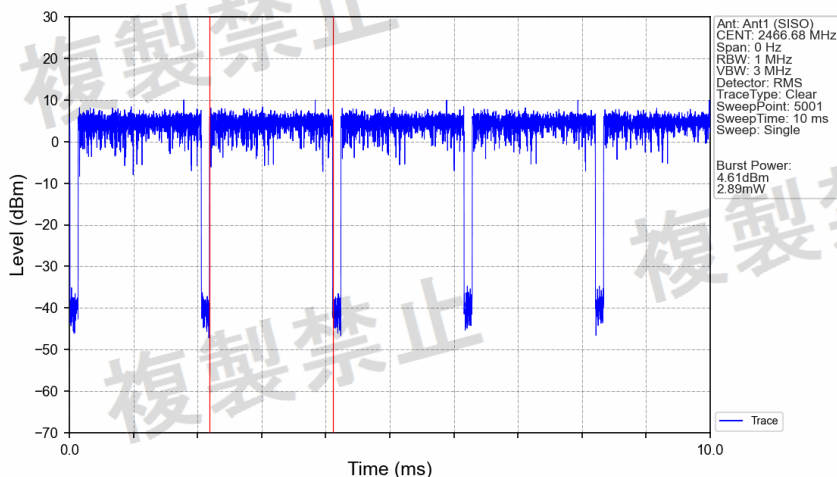
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV

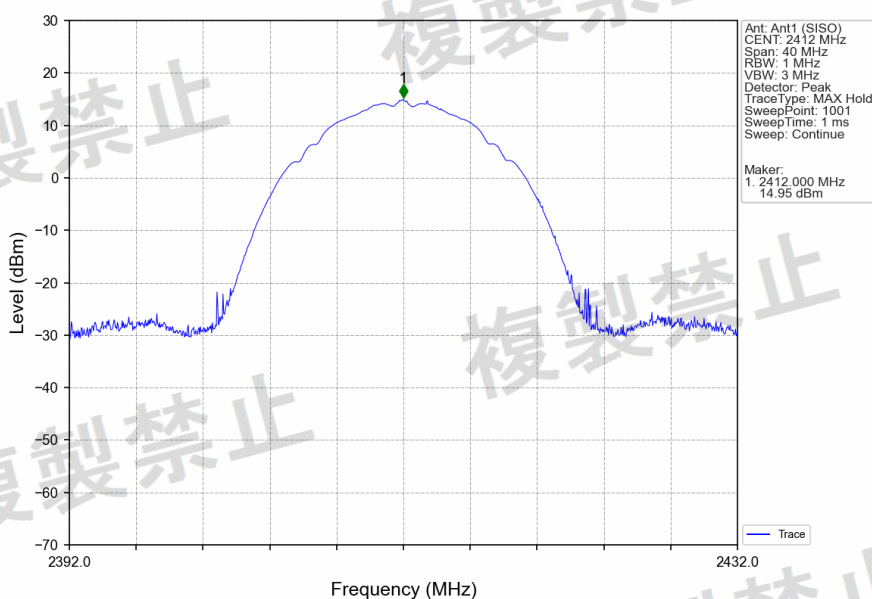


Burst No.	1	2	3	4
Length (ms)	1.920	1.920	1.920	1.920
Power (dBm)	4.60	4.61	4.60	4.60
Power (mW)	2.884	2.889	2.886	2.883
Remark	/	Max	/	/

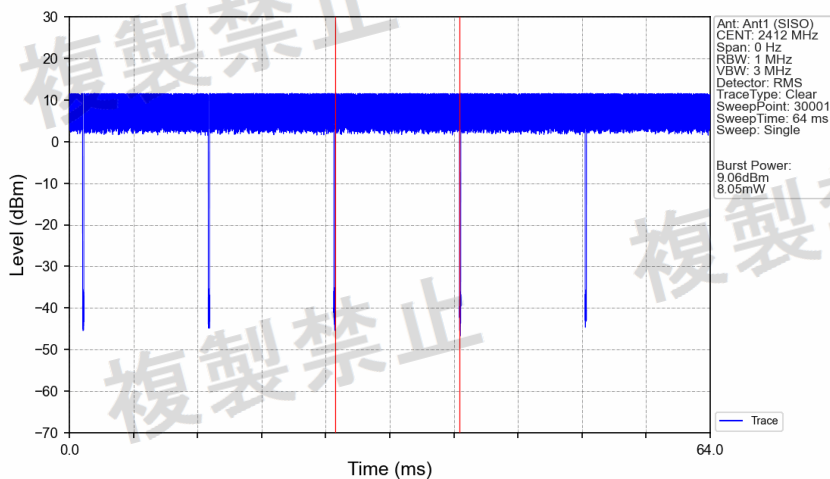
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802.11b_2412MHz_Ant1 (SISO)_NTHV



802.11b_2412MHz_Ant1 (SISO)_NTHV

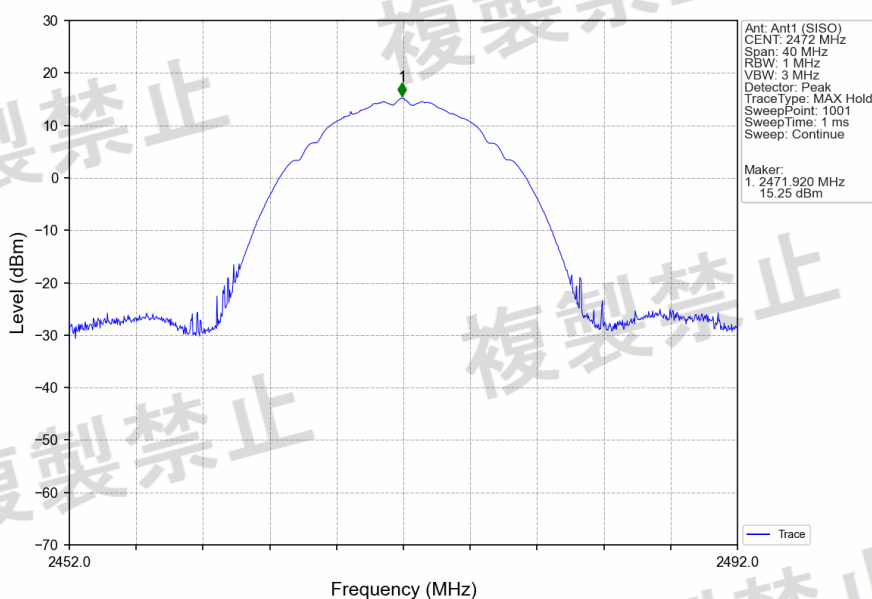


Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power (dBm)	9.02	9.03	9.06	9.01
Power (mW)	7.974	7.995	8.045	7.960
Remark	/	/	Max	/

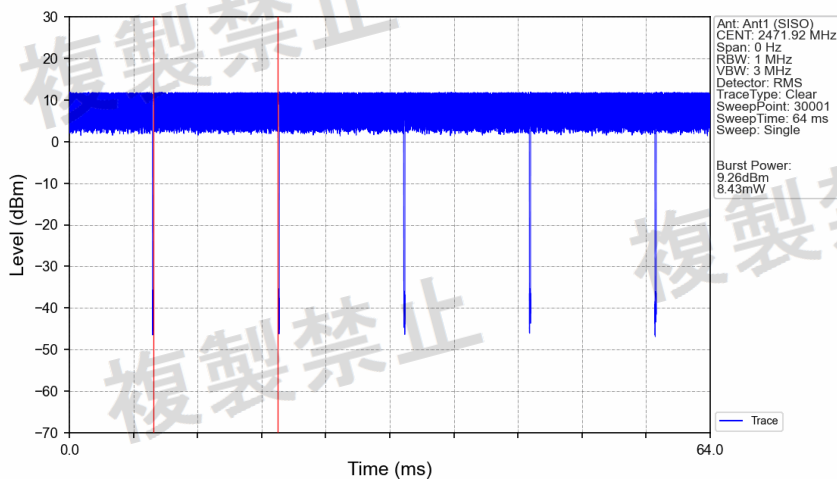
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802.11b_2472MHz_Ant1 (SISO)_NTHV



802.11b_2472MHz_Ant1 (SISO)_NTHV

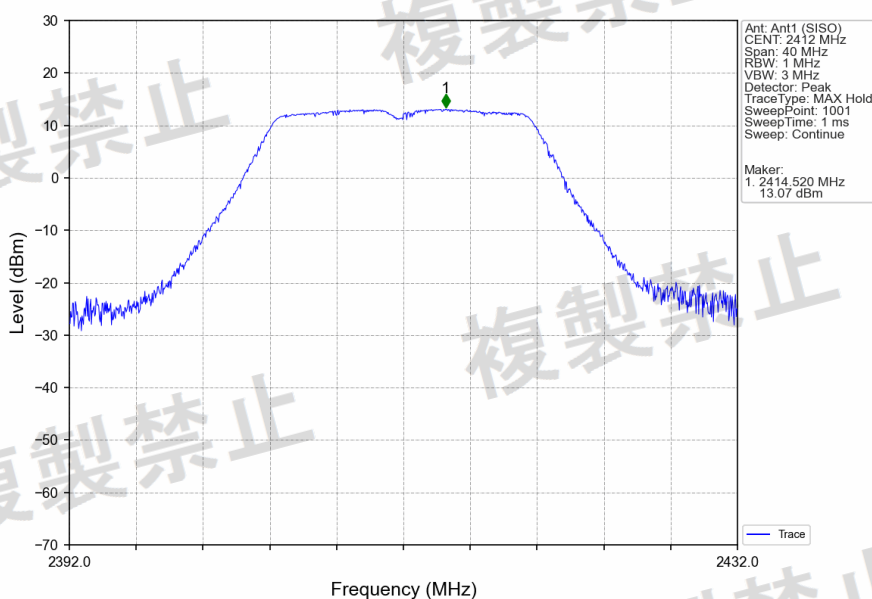


Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	9.26	9.23	9.23	9.24
Power(mW)	8.431	8.384	8.375	8.393
Remark	Max	/	/	/

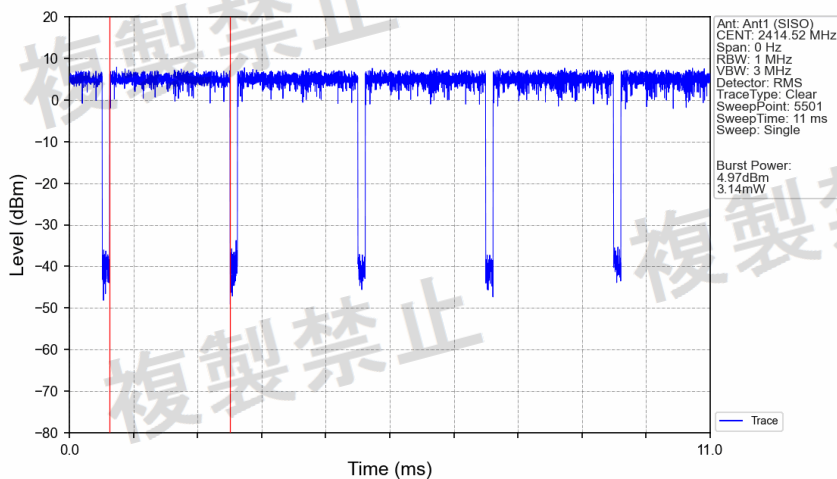
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802.11g_2412MHz_Ant1 (SISO)_NTHV



802.11g_2412MHz_Ant1 (SISO)_NTHV

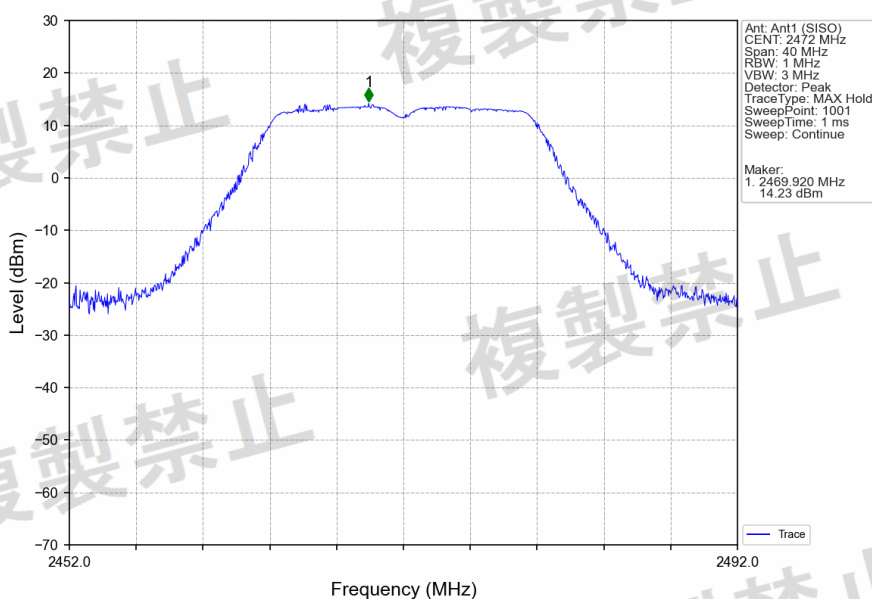


Burst No.	1	2	3	4
Length (ms)	2.066	2.066	2.066	2.066
Power(dBm)	4.97	4.96	4.96	4.96
Power(mW)	3.137	3.130	3.130	3.134
Remark	Max	/	/	/

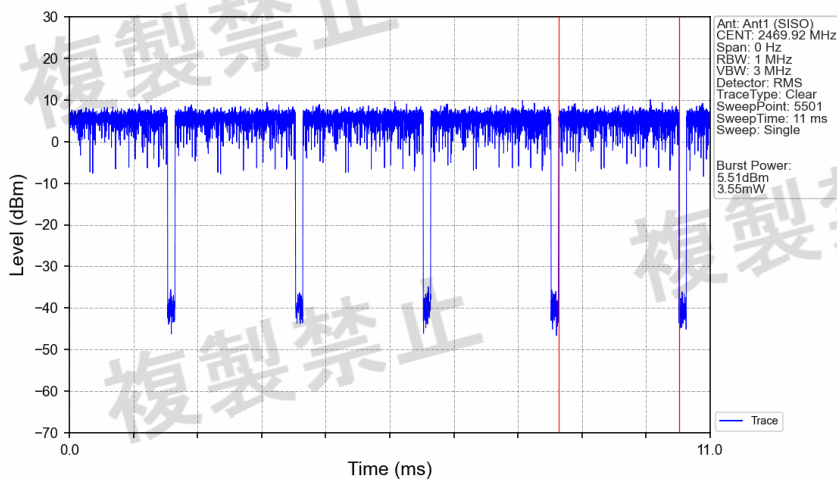
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802.11g_2472MHz_Ant1 (SISO)_NTHV



802.11g_2472MHz_Ant1 (SISO)_NTHV

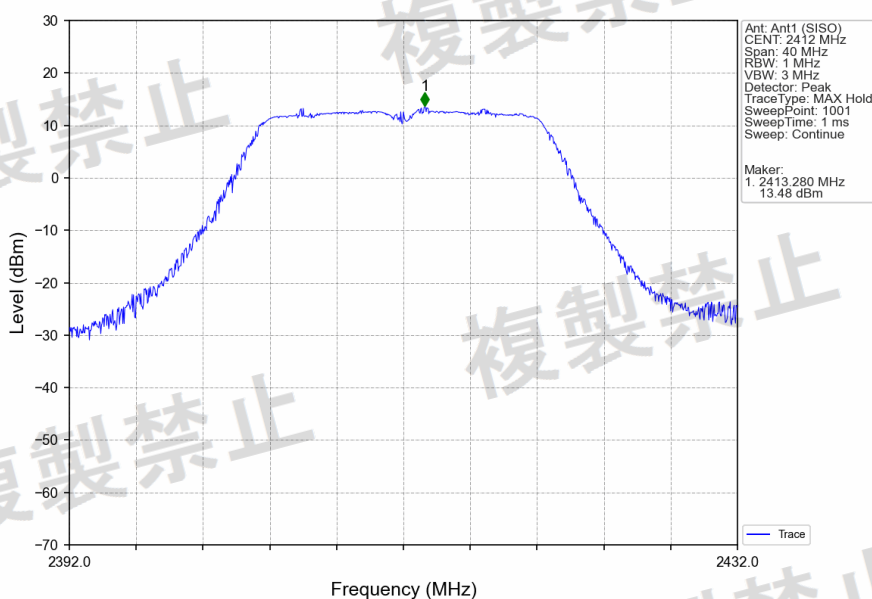


Burst No.	1	2	3	4
Length (ms)	2.066	2.066	2.066	2.066
Power(dBm)	5.50	5.50	5.51	5.51
Power(mW)	3.550	3.551	3.553	3.554
Remark	/	/	/	Max

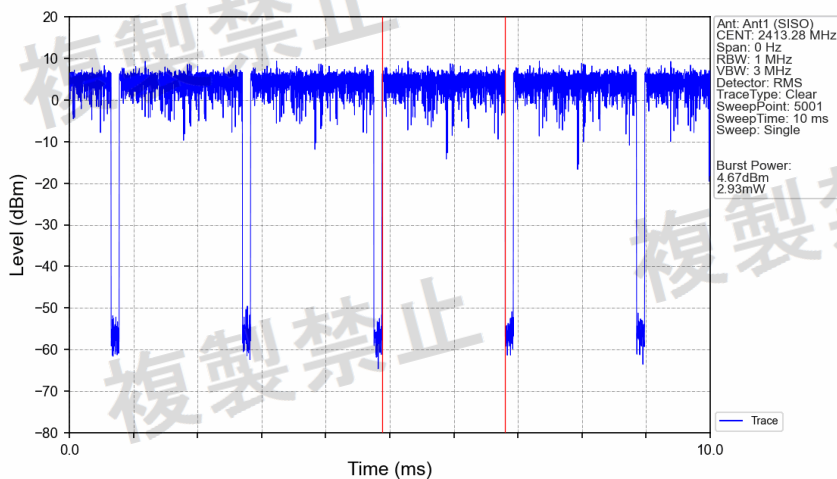
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV

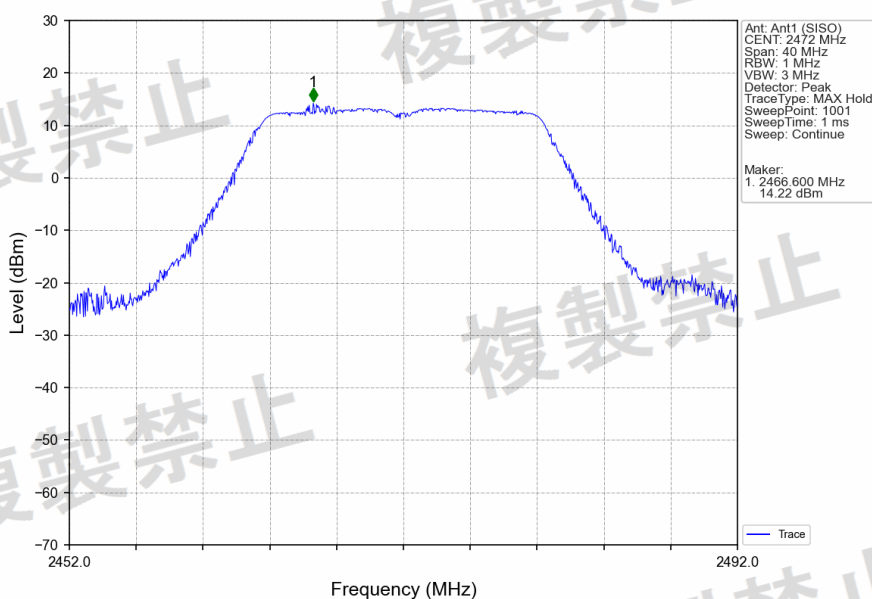


Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.922
Power(dBm)	4.67	4.67	4.67	4.67
Power(mW)	2.928	2.932	2.933	2.929
Remark	/	/	Max	/

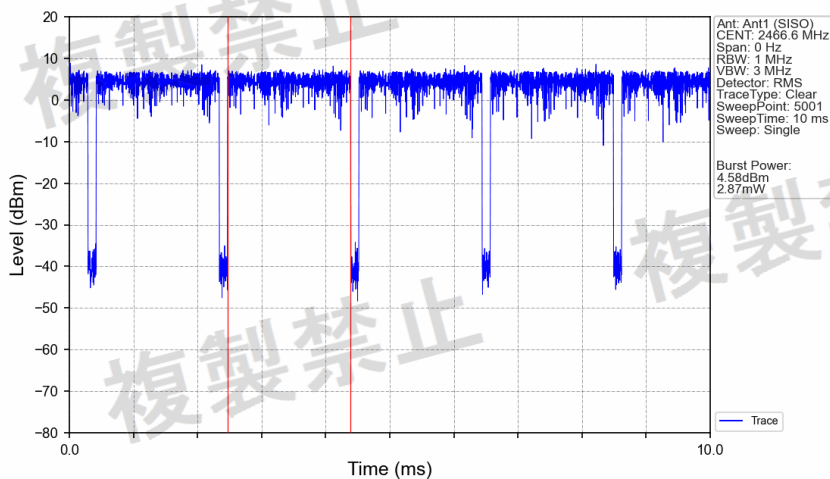
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.922
Power(dBm)	4.57	4.58	4.58	4.58
Power(mW)	2.864	2.872	2.868	2.868
Remark	/	Max	/	/

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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	2357.5	-27.05	1.972	-144.87	0.000	2.5	Pass
				2387	2400	2395.996	-26.83	2.075	/	/	25	Pass
				2483.5	2496.5	2491.131	-28.47	1.422	/	/	25	Pass
				2496.5	12500	3681.5	-25.67	2.710	-36.57	0.220	2.5	Pass
						3787.5	-24.71	3.381	-35.73	0.267	2.5	Pass
						5263	-25.88	2.582	-38.48	0.142	2.5	Pass
		2472	1	30	2387	2173	-27.27	1.875	-144.82	0.000	2.5	Pass
				2387	2400	2392.59	-28.45	1.429	/	/	25	Pass
				2483.5	2496.5	2483.695	-24.95	3.199	/	/	25	Pass
				2496.5	12500	3702	-24.87	3.258	-36.18	0.241	2.5	Pass
						3799.5	-25.11	3.083	-35.62	0.274	2.5	Pass
802.11g	SISO	2412	1	30	2387	2386.5	-37.58	0.175	/	/	2.5	Pass
				2387	2400	2399.974	-11.61	69.024	-26.27	2.360	25	Pass
				2483.5	2496.5	2489.103	-40.27	0.094	/	/	25	Pass
				2496.5	12500	5040.5	-40.13	0.097	/	/	2.5	Pass
		2472	1	30	2387	2212	-26.78	2.099	-40.59	0.087	2.5	Pass
				2387	2400	2389.34	-28.00	1.585	/	/	25	Pass
				2483.5	2496.5	2483.513	-10.02	99.541	-27.63	1.726	25	Pass
				2496.5	12500	3800	-24.79	3.319	-35.70	0.269	2.5	Pass
						4155	-25.19	3.027	-37.15	0.193	2.5	Pass
						4938.5	-25.07	3.112	-36.27	0.236	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2386.5	-37.55	0.176	/	/	2.5	Pass
				2387	2400	2399.987	-11.41	72.277	-27.70	1.698	25	Pass
				2483.5	2496.5	2487.543	-40.24	0.095	/	/	25	Pass
				2496.5	12500	3856.5	-40.90	0.081	/	/	2.5	Pass
		2472	1	30	2387	2312.5	-40.71	0.085	/	/	2.5	Pass
				2387	2400	2399.818	-42.17	0.061	/	/	25	Pass
				2483.5	2496.5	2483.526	-9.13	122.180	-25.41	2.877	25	Pass
				2496.5	12500	2499.5	-32.28	0.592	/	/	2.5	Pass

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4.1.2 TxSe_NTLV

NTLV												
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	2385	-26.95	2.018	-39.45	0.114	2.5	Pass
				2387	2400	2399.493	-23.20	4.786	/	/	25	Pass
				2483.5	2496.5	2484.54	-28.27	1.489	/	/	25	Pass
				2496.5	12500	4020.5	-25.39	2.891	-37.56	0.175	2.5	Pass
						4933	-25.23	2.999	-36.09	0.246	2.5	Pass
						5006	-24.59	3.475	-36.13	0.244	2.5	Pass
	SISO	2472	1	30	2387	2291	-25.03	3.141	-39.99	0.100	2.5	Pass
				2387	2400	2398.193	-28.59	1.384	/	/	25	Pass
				2483.5	2496.5	2483.708	-24.81	3.304	/	/	25	Pass
				2496.5	12500	3670.5	-25.54	2.793	-36.19	0.240	2.5	Pass
						3799	-24.96	3.192	-35.33	0.293	2.5	Pass
802.11g	SISO	2412	1	30	2387	2367	-26.70	2.138	-39.84	0.104	2.5	Pass
				2387	2400	2399.961	-11.68	67.920	-27.74	1.683	25	Pass
				2483.5	2496.5	2496.448	-28.49	1.416	/	/	25	Pass
				2496.5	12500	3698	-25.11	3.083	-36.07	0.247	2.5	Pass
						3780.5	-25.10	3.090	-35.40	0.288	2.5	Pass
						4954	-25.24	2.992	-35.96	0.254	2.5	Pass
	SISO	2472	1	30	2387	2356.5	-27.13	1.936	-144.82	0.000	2.5	Pass
				2387	2400	2393.11	-28.57	1.390	/	/	25	Pass
				2483.5	2496.5	2483.552	-8.53	140.281	-25.51	2.812	25	Pass
				2496.5	12500	3760	-25.39	2.891	-35.51	0.281	2.5	Pass
						5028.5	-25.31	2.944	-35.99	0.252	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2384.5	-33.30	0.468	/	/	2.5	Pass
				2387	2400	2399.935	-9.64	108.643	-27.54	1.762	25	Pass
				2483.5	2496.5	2488.687	-40.45	0.090	/	/	25	Pass
				2496.5	12500	4961	-40.34	0.092	/	/	2.5	Pass
	SISO	2472	1	30	2387	2339	-27.45	1.799	-144.82	0.000	2.5	Pass
				2387	2400	2391.121	-28.61	1.377	/	/	25	Pass
				2483.5	2496.5	2483.513	-6.97	200.909	-24.06	3.926	25	Pass
				2496.5	12500	3783.5	-25.02	3.148	-35.35	0.292	2.5	Pass
						3894	-24.99	3.170	-36.15	0.243	2.5	Pass
						4954.5	-24.89	3.243	-35.90	0.257	2.5	Pass

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4.1.3 TxSe_NTHV

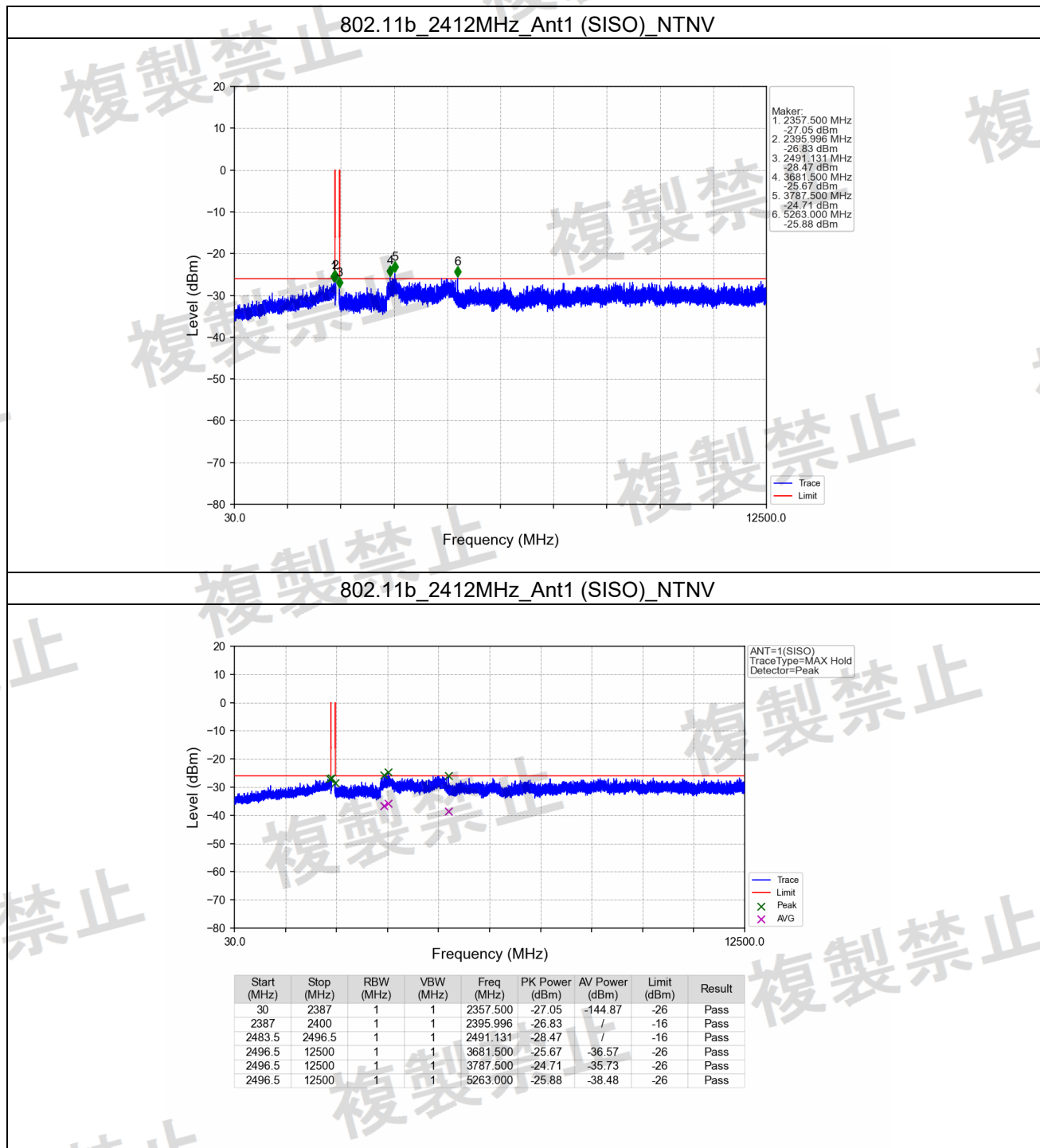
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	1	30	2387	2286	-26.38	2.301	-40.11	0.097	2.5	Pass
				2387	2400	2399.935	-25.37	2.904	/	/	25	Pass
				2483.5	2496.5	2495.577	-28.53	1.403	/	/	25	Pass
				2496.5	12500	3611	-25.47	2.838	-37.00	0.200	2.5	Pass
						3778	-24.96	3.192	-35.42	0.287	2.5	Pass
						5052.5	-24.85	3.273	-35.98	0.252	2.5	Pass
	SISO	2472	1	30	2387	2350	-26.11	2.449	-39.81	0.104	2.5	Pass
				2387	2400	2389.444	-27.73	1.687	/	/	25	Pass
				2483.5	2496.5	2483.578	-24.32	3.698	/	/	25	Pass
				2496.5	12500	3871.5	-24.87	3.258	-35.87	0.259	2.5	Pass
						4997	-25.15	3.055	-36.09	0.246	2.5	Pass
						5219	-25.13	3.069	-37.54	0.176	2.5	Pass
802.11g	SISO	2412	1	30	2387	2350.5	-26.51	2.234	-39.90	0.102	2.5	Pass
				2387	2400	2399.987	-11.51	70.632	-27.62	1.730	25	Pass
				2483.5	2496.5	2491.911	-28.12	1.542	/	/	25	Pass
				2496.5	12500	3662	-25.03	3.141	-36.33	0.233	2.5	Pass
						3796.5	-24.01	3.972	-35.38	0.290	2.5	Pass
						3863	-23.51	4.457	-35.92	0.256	2.5	Pass
	SISO	2472	1	30	2387	2348	-26.92	2.032	-39.87	0.103	2.5	Pass
				2387	2400	2392.824	-28.34	1.466	/	/	25	Pass
				2483.5	2496.5	2483.513	-8.73	133.968	-28.54	1.400	25	Pass
				2496.5	12500	3772	-25.10	3.090	-35.46	0.284	2.5	Pass
						3836	-24.98	3.177	-35.57	0.277	2.5	Pass
						4963.5	-25.29	2.958	-35.95	0.254	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2385.5	-32.90	0.513	/	/	2.5	Pass
				2387	2400	2399.987	-9.68	107.647	-27.30	1.862	25	Pass
				2483.5	2496.5	2495.889	-41.25	0.075	/	/	25	Pass
				2496.5	12500	3700	-40.97	0.080	/	/	2.5	Pass
	SISO	2472	1	30	2387	2341.5	-26.02	2.500	-39.91	0.102	2.5	Pass
				2387	2400	2395.099	-27.67	1.710	/	/	25	Pass
				2483.5	2496.5	2483.565	-7.03	198.153	-24.37	3.656	25	Pass
				2496.5	12500	3775.5	-24.97	3.184	-35.41	0.288	2.5	Pass
						3847	-25.20	3.020	-35.69	0.270	2.5	Pass
						5015	-25.11	3.083	-36.09	0.246	2.5	Pass

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4.2 Test Graph

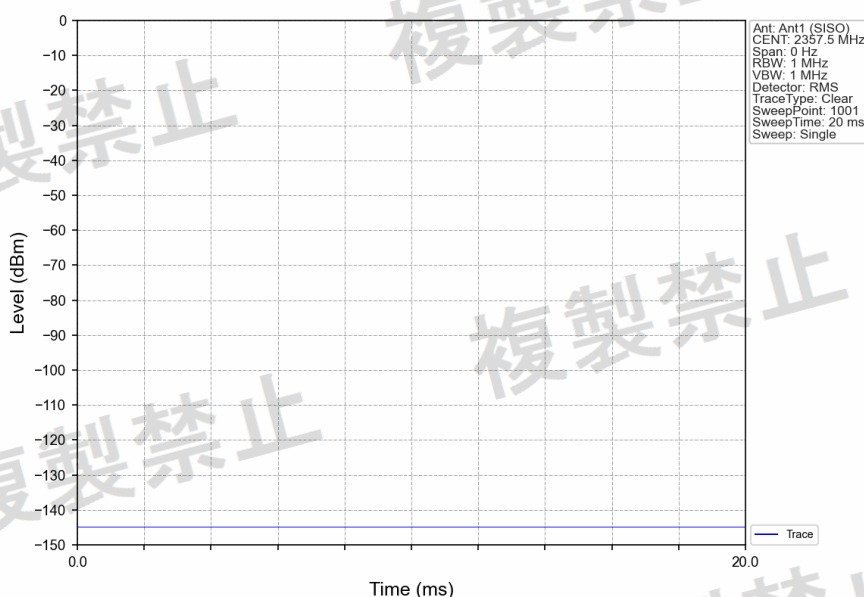
4.2.1 TxSe_NTNV



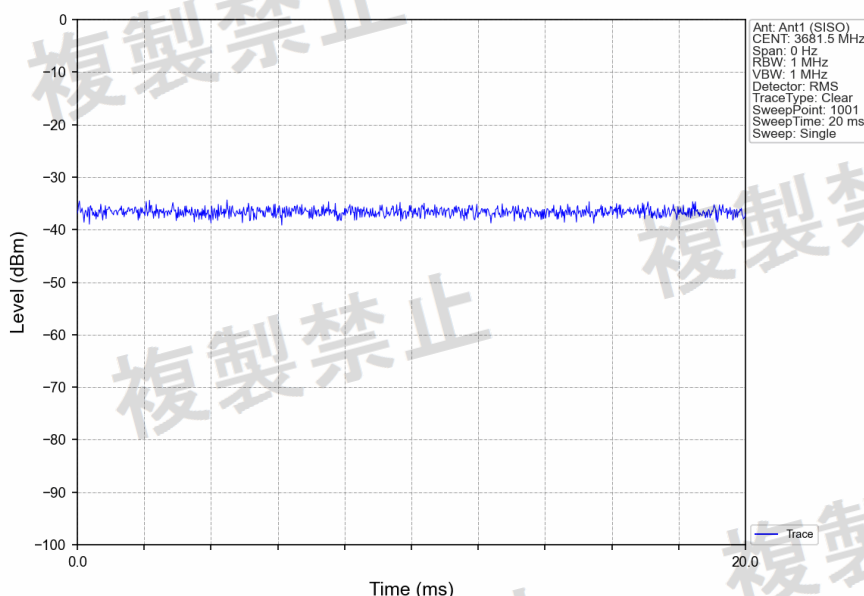
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802.11b_2412MHz_Ant1 (SISO)_NTNV



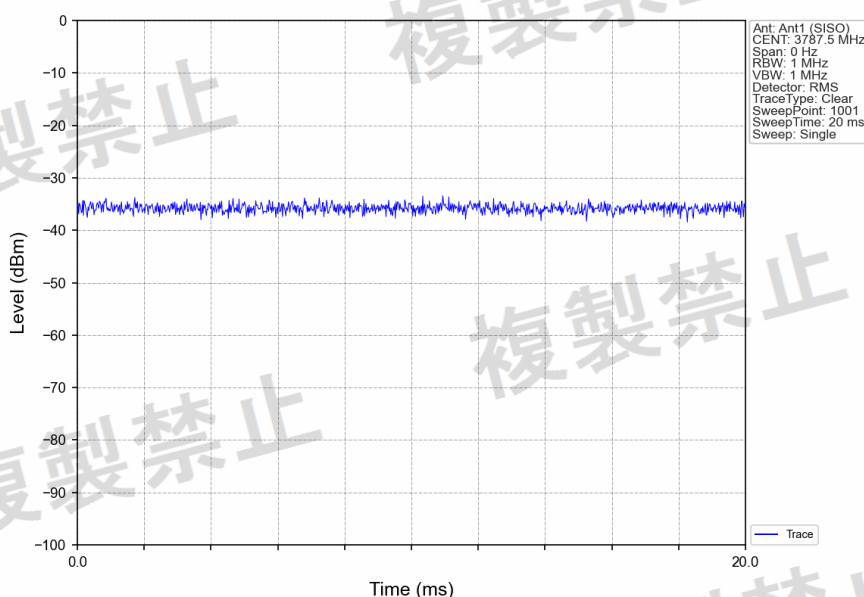
802.11b_2412MHz_Ant1 (SISO)_NTNV



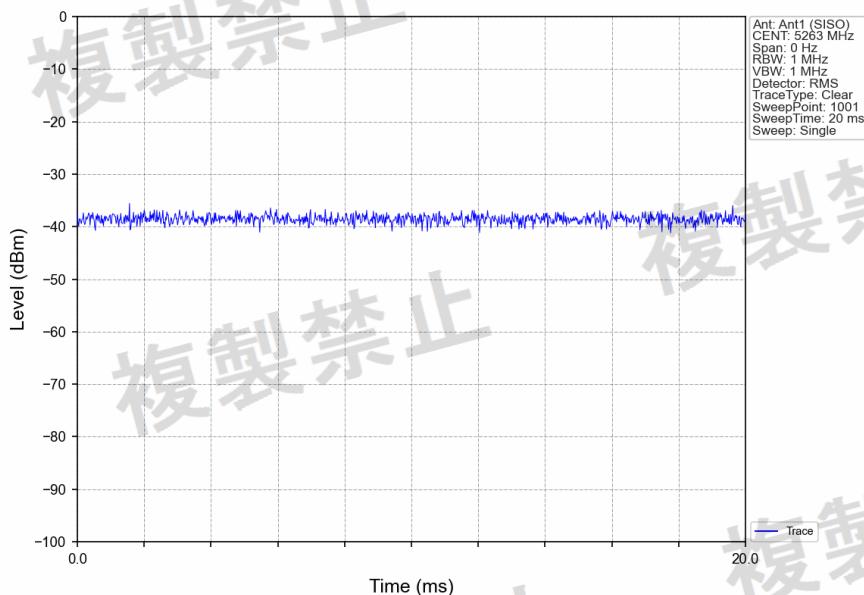
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802.11b_2412MHz_Ant1 (SISO)_NTNV



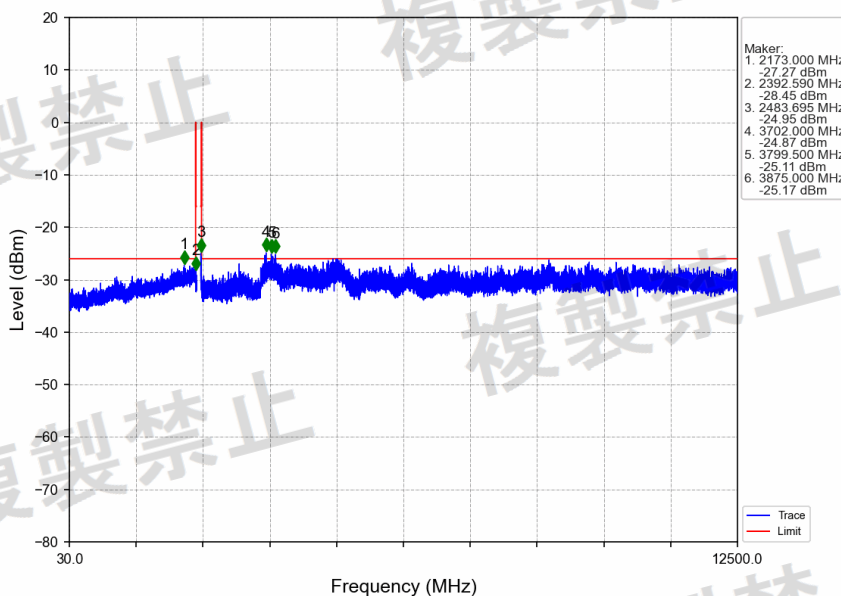
802.11b_2412MHz_Ant1 (SISO)_NTNV



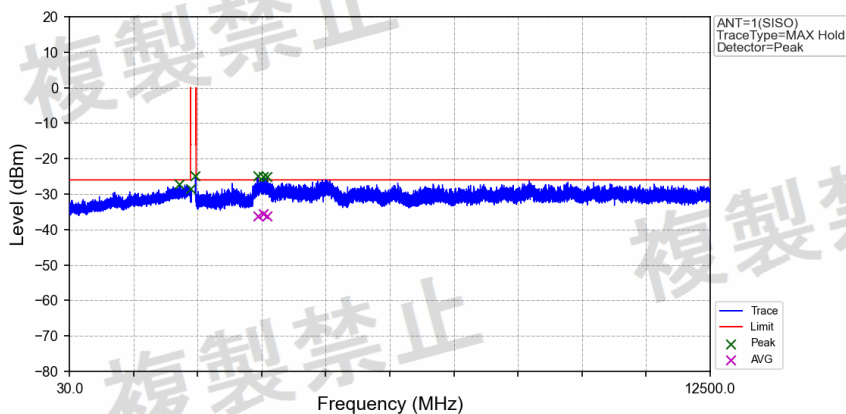
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

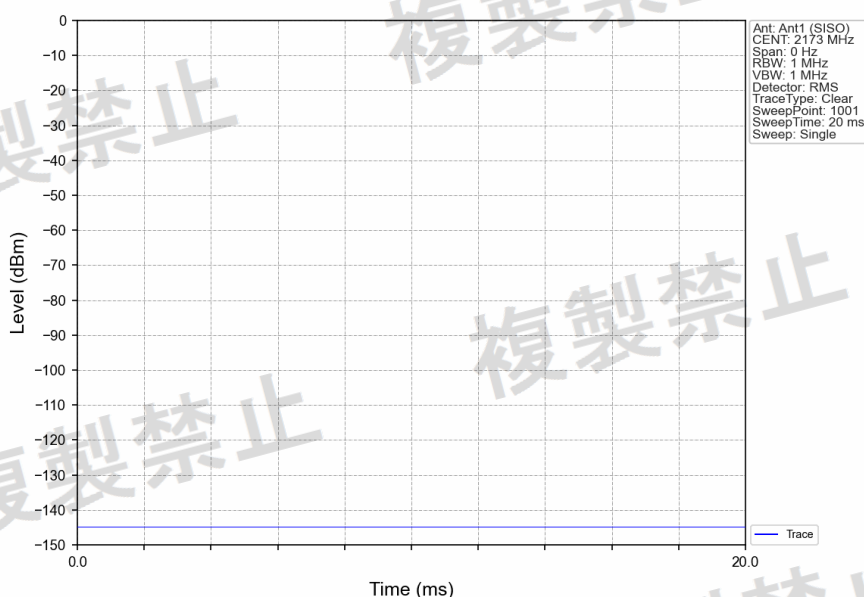


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2173.000	-27.27	-144.82	-26	Pass
2387	2400	1	1	2392.590	-28.45	/	-16	Pass
2483.5	2496.5	1	1	2483.695	-24.95	/	-16	Pass
2496.5	12500	1	1	3702.000	-24.87	-36.18	-26	Pass
2496.5	12500	1	1	3799.500	-25.11	-35.62	-26	Pass
2496.5	12500	1	1	3875.000	-25.17	-36.15	-26	Pass

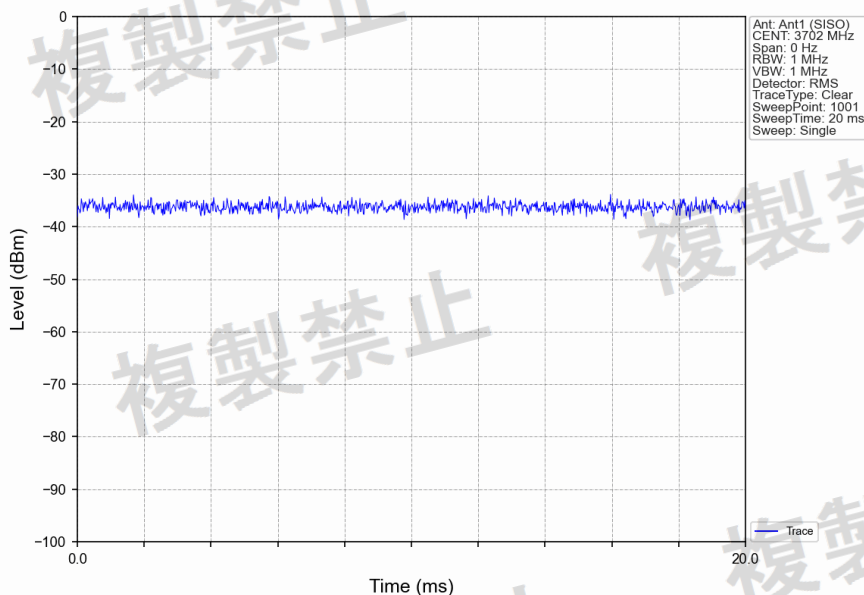
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802.11b_2472MHz_Ant1 (SISO)_NTNV



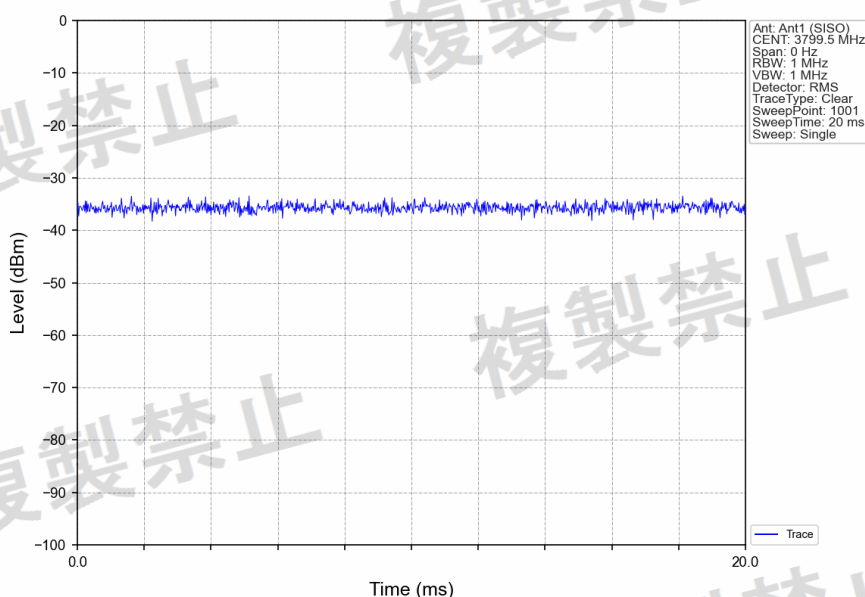
802.11b_2472MHz_Ant1 (SISO)_NTNV



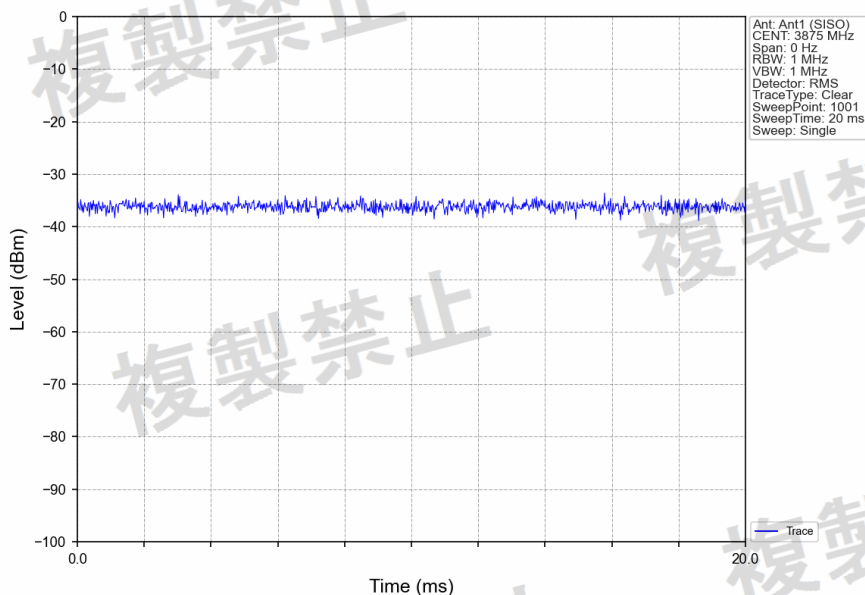
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802.11b_2472MHz_Ant1 (SISO)_NTNV



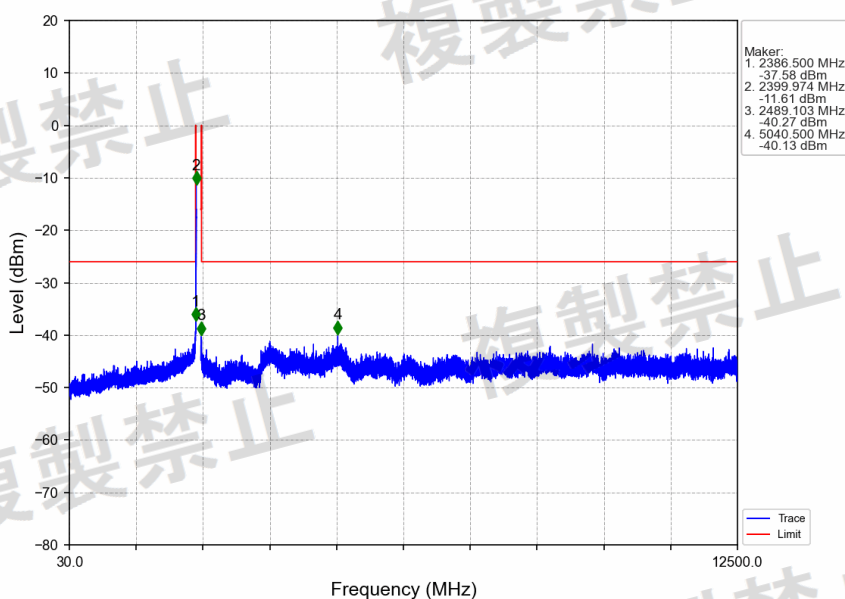
802.11b_2472MHz_Ant1 (SISO)_NTNV



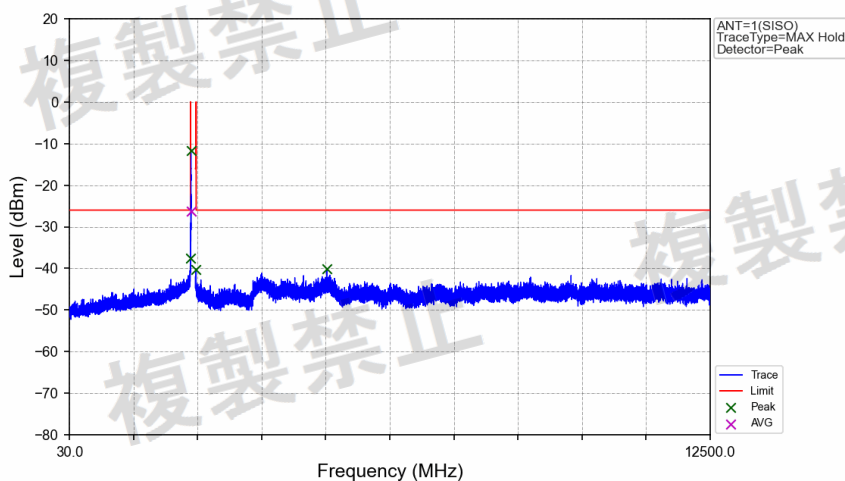
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

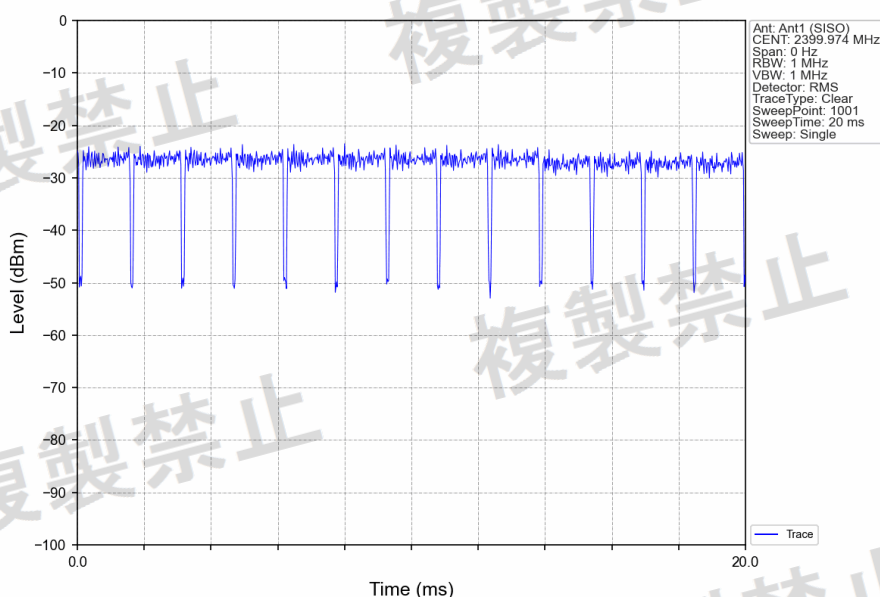


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-37.58	/	-26	Pass
2387	2400	1	1	2399.974	-11.61	-26.27	-16	Pass
2483.5	2496.5	1	1	2489.103	-40.27	/	-16	Pass
2496.5	12500	1	1	5040.500	-40.13	/	-26	Pass

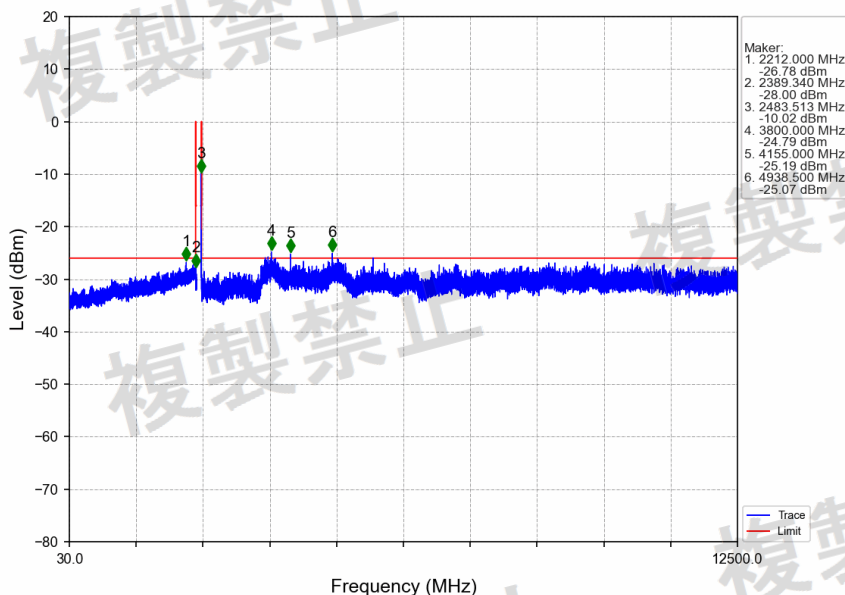
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802.11g_2412MHz_Ant1 (SISO)_NTNV



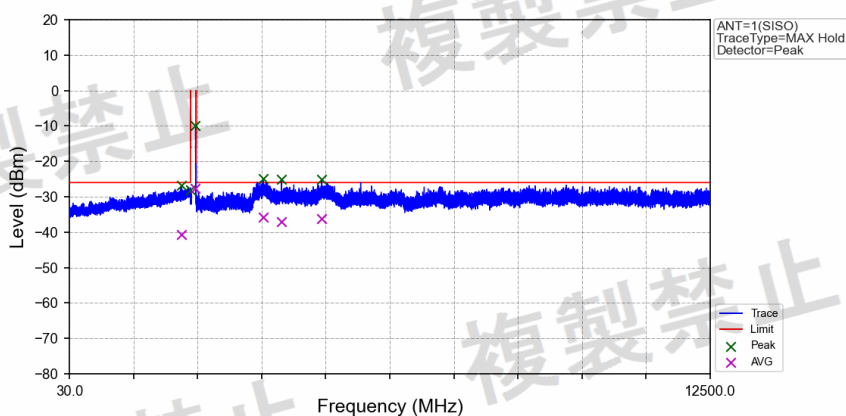
802.11g_2472MHz_Ant1 (SISO)_NTNV



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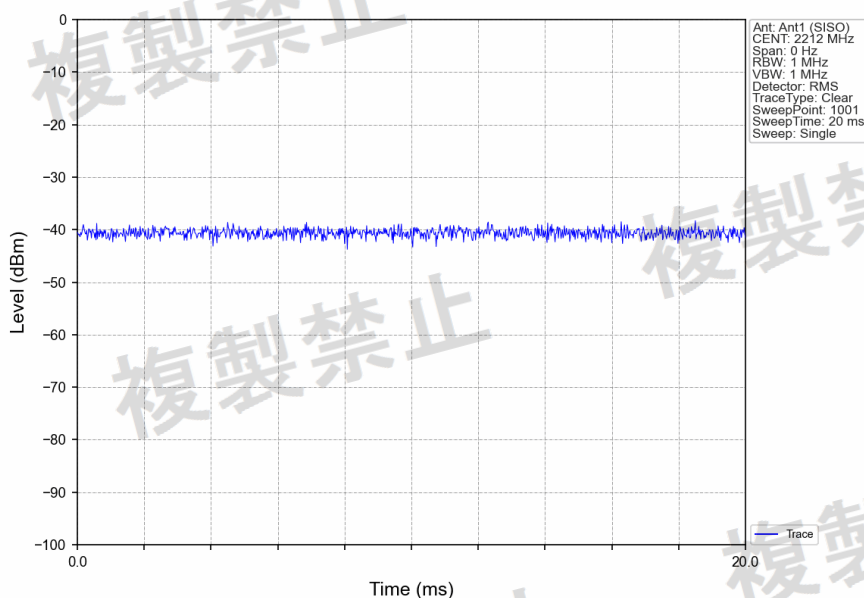
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802.11g_2472MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2212.000	-26.78	-40.59	-26	Pass
2387	2400	1	1	2389.340	-28.00	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-10.02	-27.63	-16	Pass
2496.5	12500	1	1	3800.000	-24.79	-35.70	-26	Pass
2496.5	12500	1	1	4155.000	-25.19	-37.15	-26	Pass
2496.5	12500	1	1	4938.500	-25.07	-36.27	-26	Pass

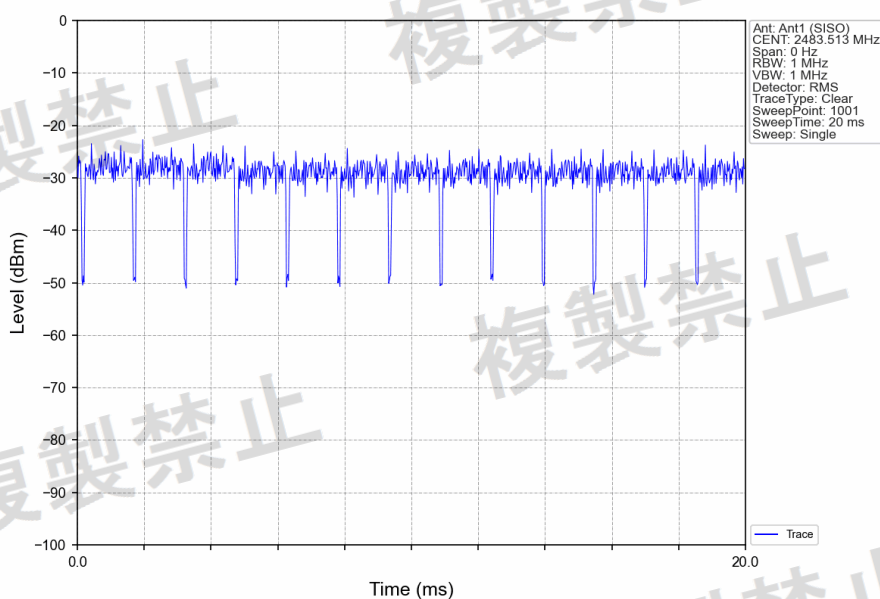
802.11g_2472MHz_Ant1 (SISO)_NTNV



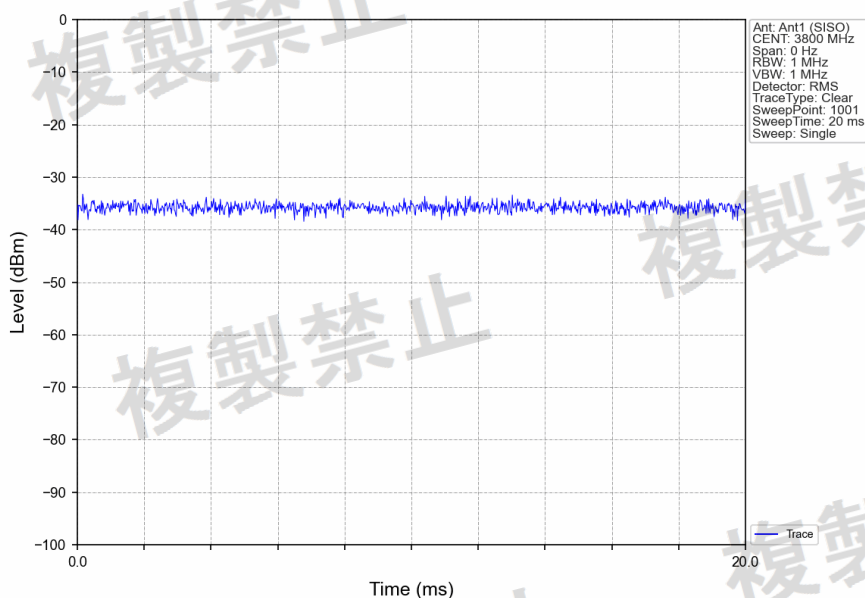
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802.11g_2472MHz_Ant1 (SISO)_NTNV



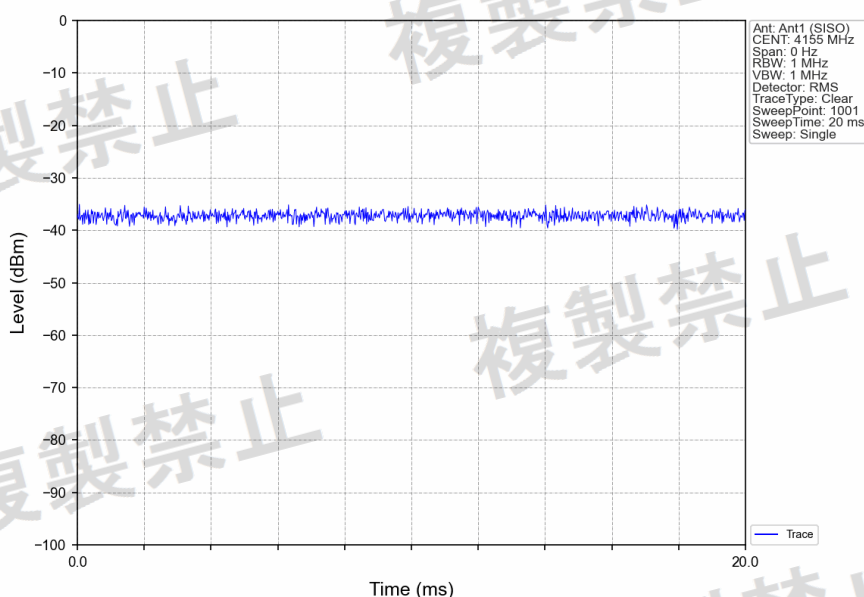
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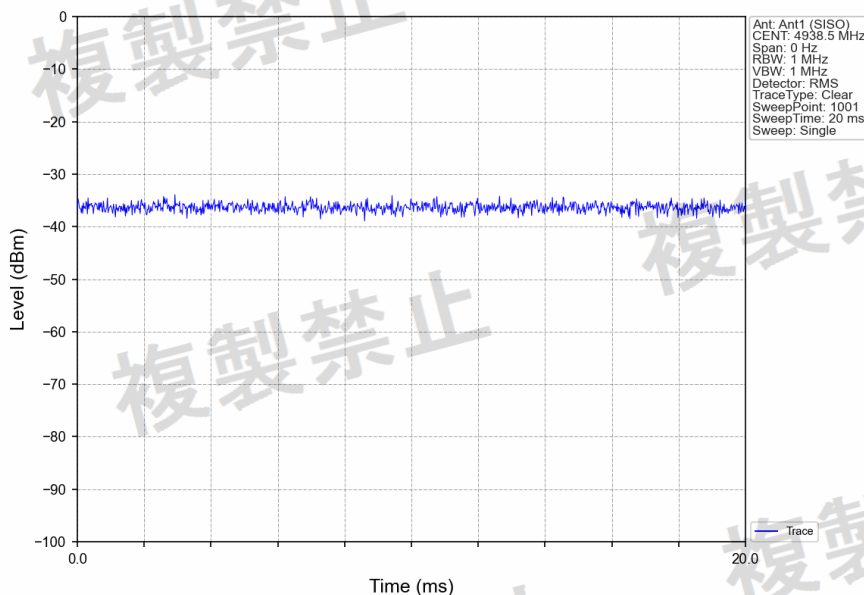
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802.11g_2472MHz_Ant1 (SISO)_NTNV



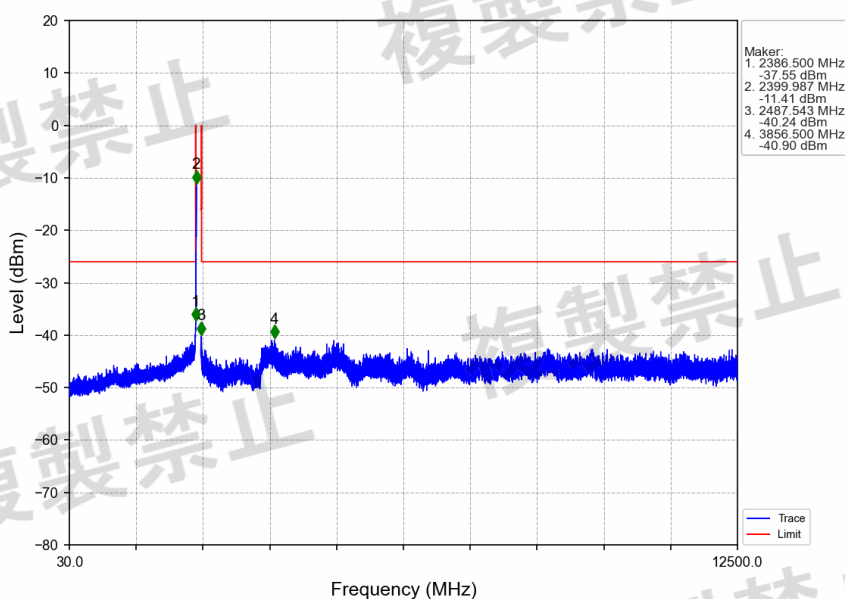
802.11g_2472MHz_Ant1 (SISO)_NTNV



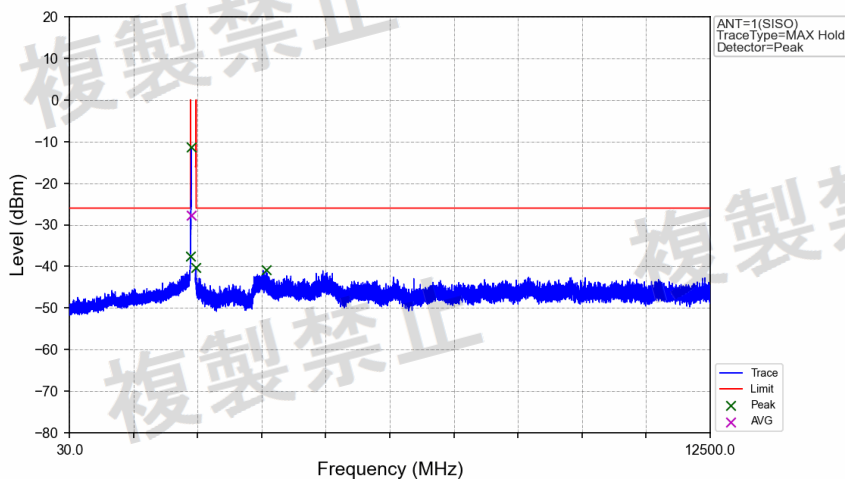
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

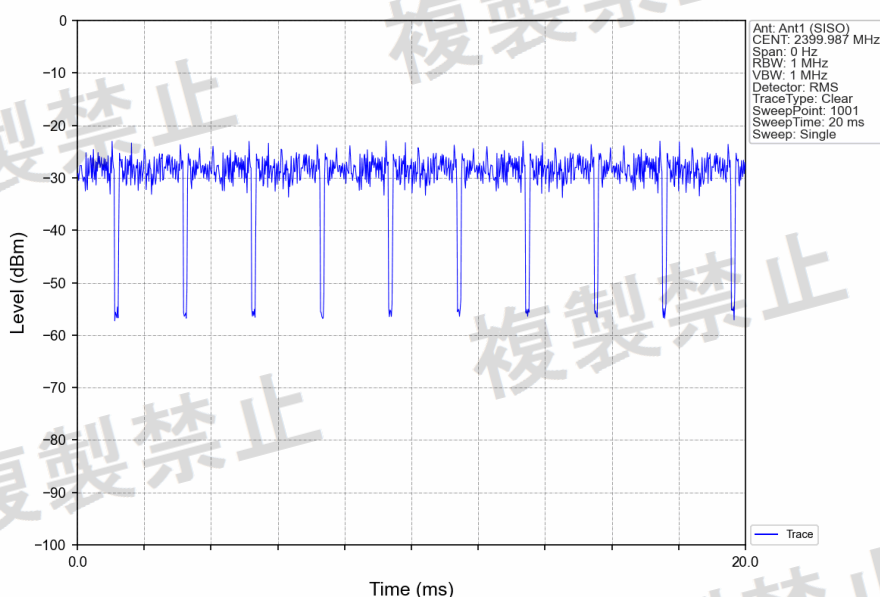


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-37.55	/	-26	Pass
2387	2400	1	1	2399.987	-11.41	-27.70	-16	Pass
2483.5	2496.5	1	1	2487.543	-40.24	/	-16	Pass
2496.5	12500	1	1	3856.500	-40.90	/	-26	Pass

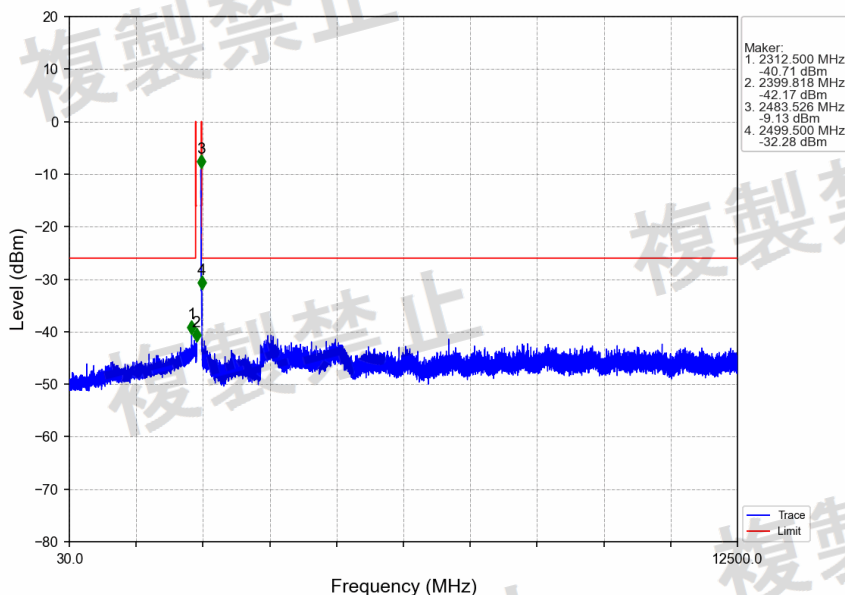
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



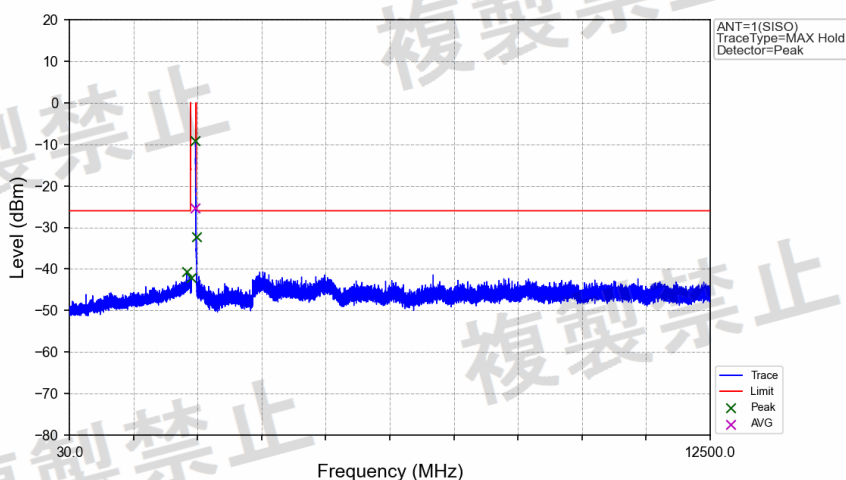
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



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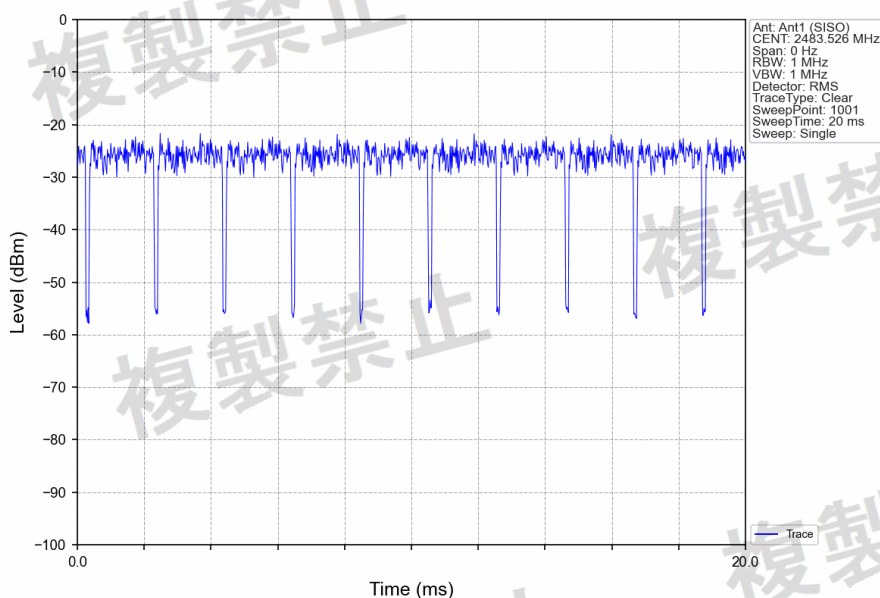
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2312.500	-40.71	/	-26	Pass
2387	2400	1	1	2399.818	-42.17	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-9.13	-25.41	-16	Pass
2496.5	12500	1	1	2499.500	-32.28	/	-26	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

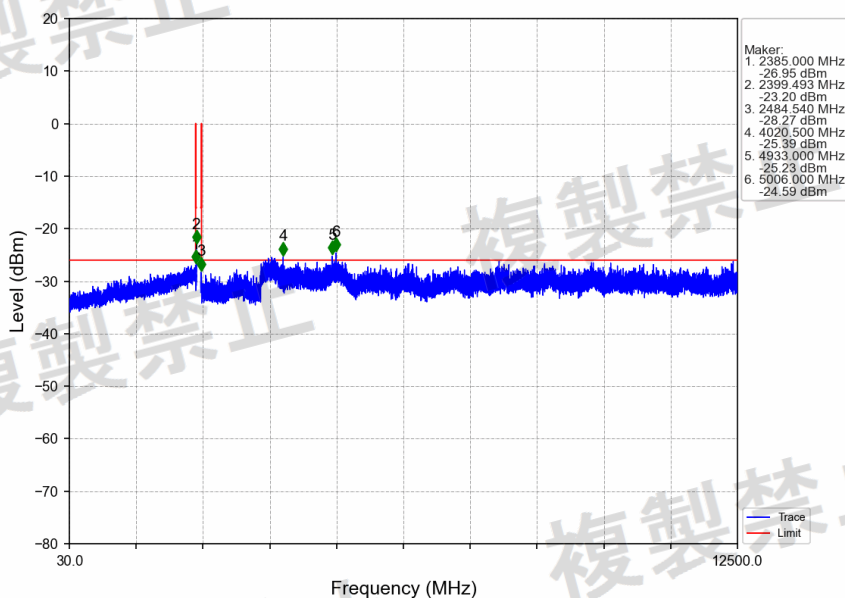


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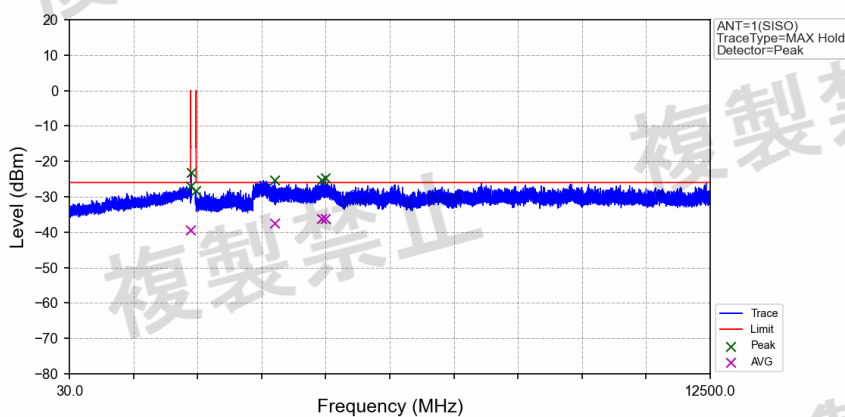
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4.2.2 TxSe_NTLV

802.11b_2412MHz_Ant1 (SISO)_NTLV



802.11b_2412MHz_Ant1 (SISO)_NTLV

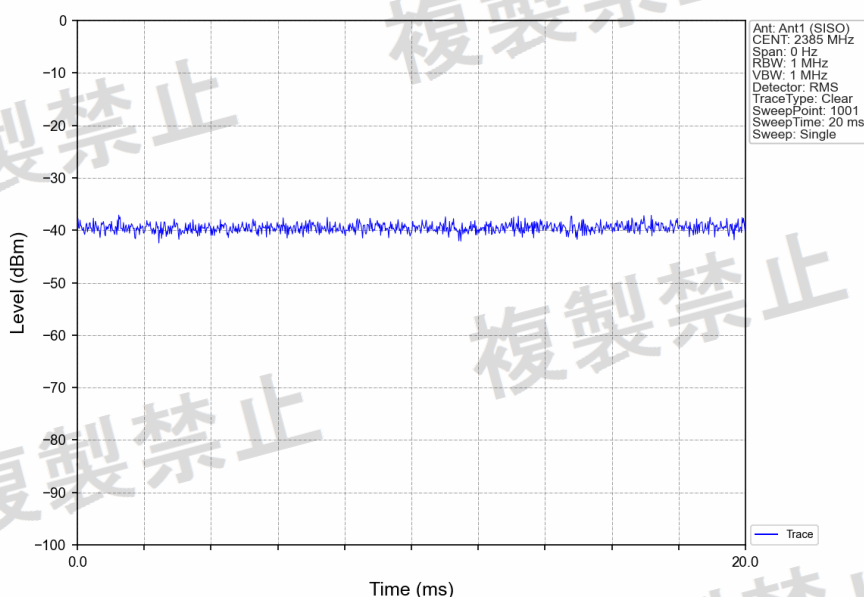


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.000	-26.95	-39.45	-26	Pass
2387	2400	1	1	2399.493	-23.20	/	-16	Pass
2483.5	2496.5	1	1	2484.540	-28.27	/	-16	Pass
2496.5	12500	1	1	4020.500	-25.39	-37.56	-26	Pass
2496.5	12500	1	1	4933.000	-25.23	-36.09	-26	Pass
2496.5	12500	1	1	5006.000	-24.59	-36.13	-26	Pass

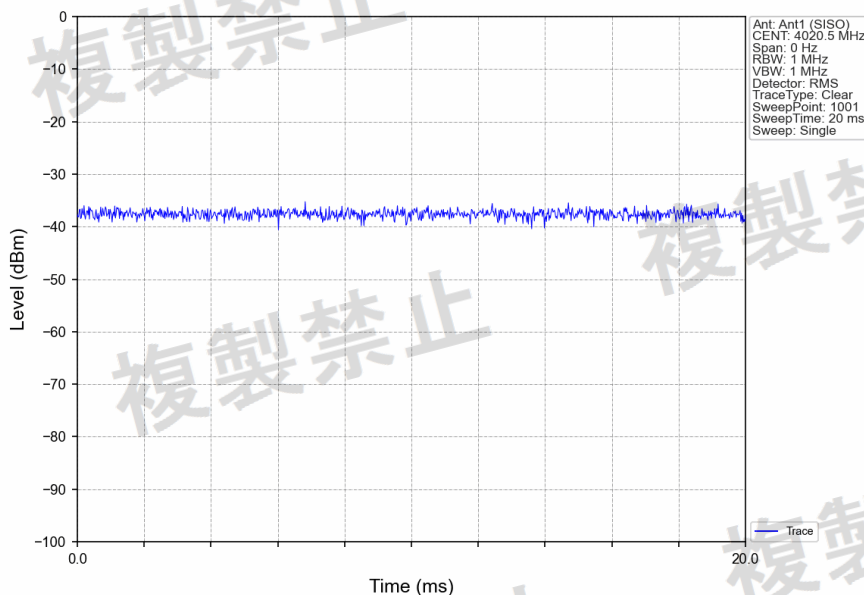
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802.11b_2412MHz_Ant1 (SISO)_NTLV



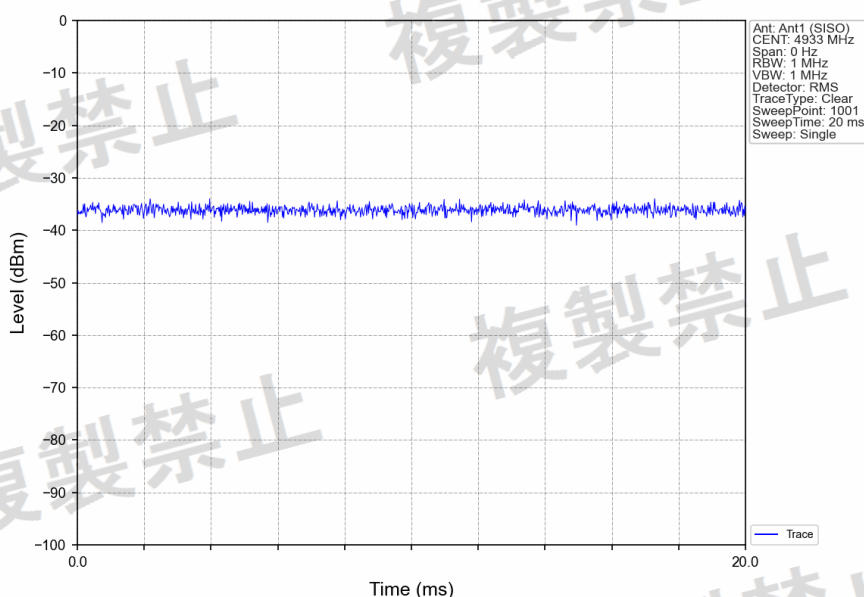
802.11b_2412MHz_Ant1 (SISO)_NTLV



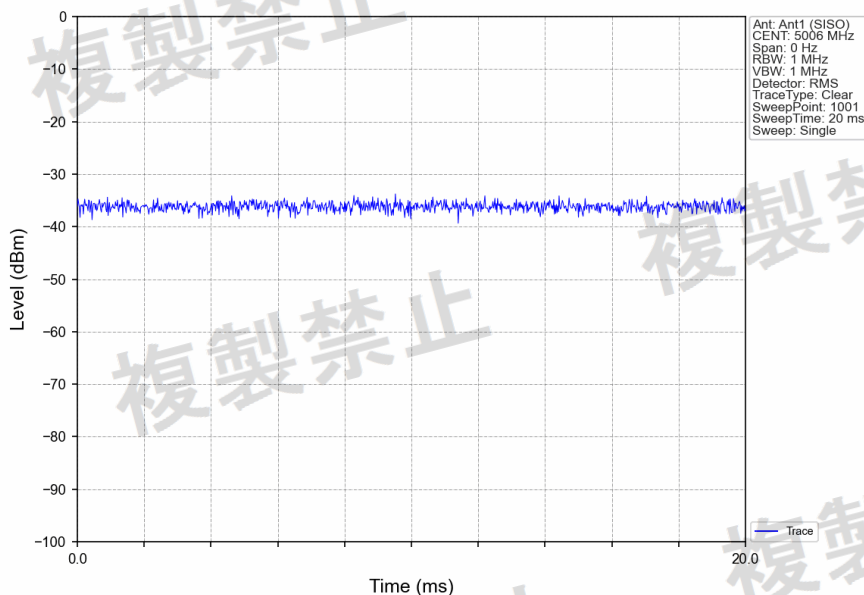
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802.11b_2412MHz_Ant1 (SISO)_NTLV



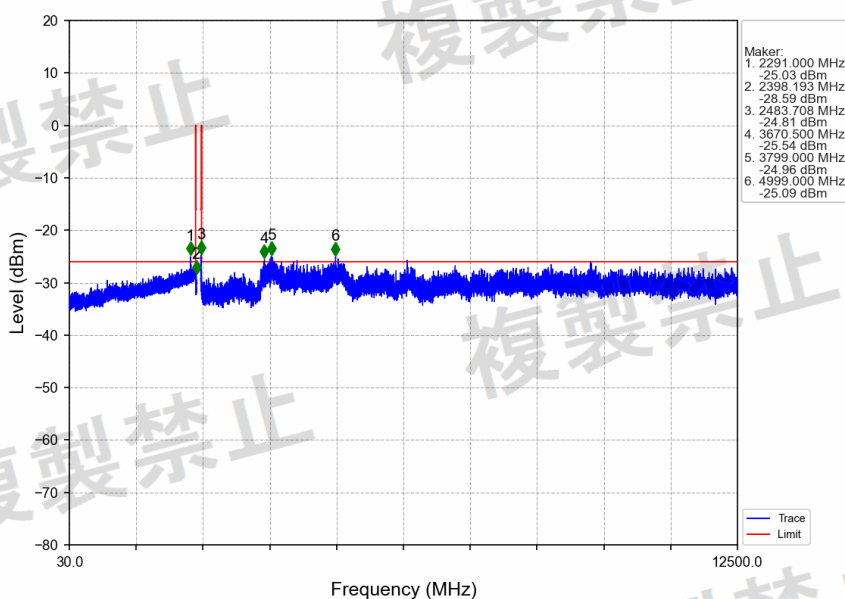
802.11b_2412MHz_Ant1 (SISO)_NTLV



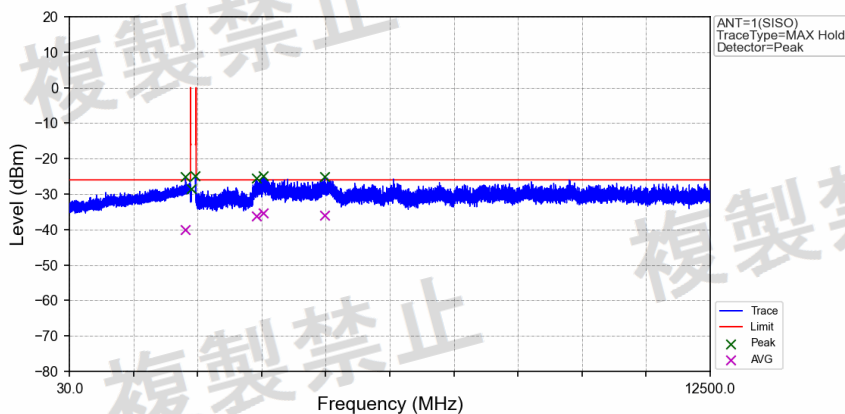
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802.11b_2472MHz_Ant1 (SISO)_NTLV



802.11b_2472MHz_Ant1 (SISO)_NTLV

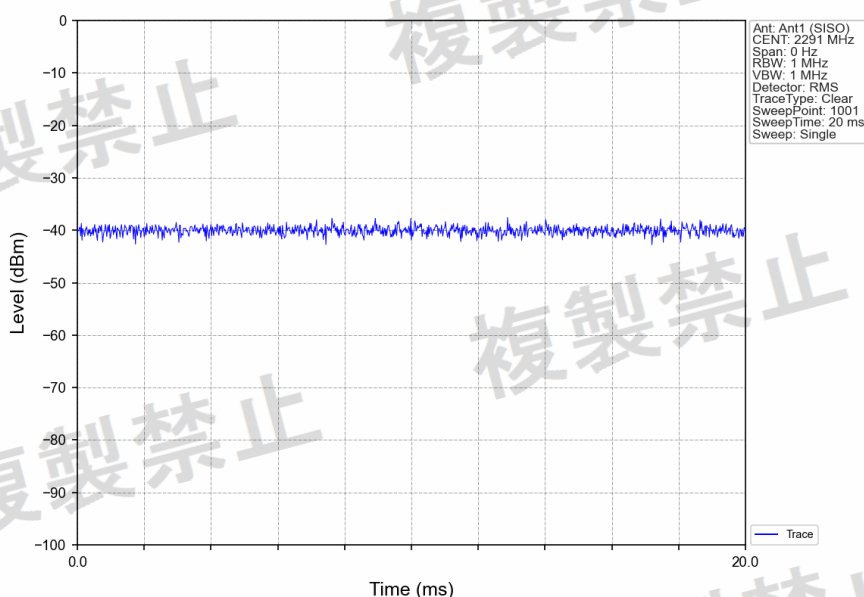


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2291.000	-25.03	-39.99	-26	Pass
2387	2400	1	1	2398.193	-28.59	/	-16	Pass
2483.5	2496.5	1	1	2483.708	-24.81	/	-16	Pass
2496.5	12500	1	1	3670.500	-25.54	-36.19	-26	Pass
2496.5	12500	1	1	3799.000	-24.96	-35.33	-26	Pass
2496.5	12500	1	1	4999.000	-25.09	-36.06	-26	Pass

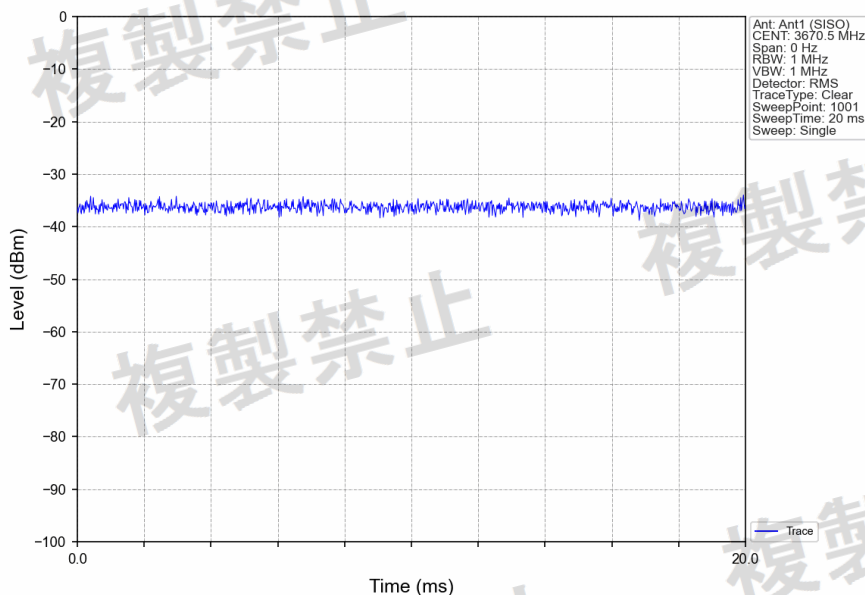
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802.11b_2472MHz_Ant1 (SISO)_NTLV



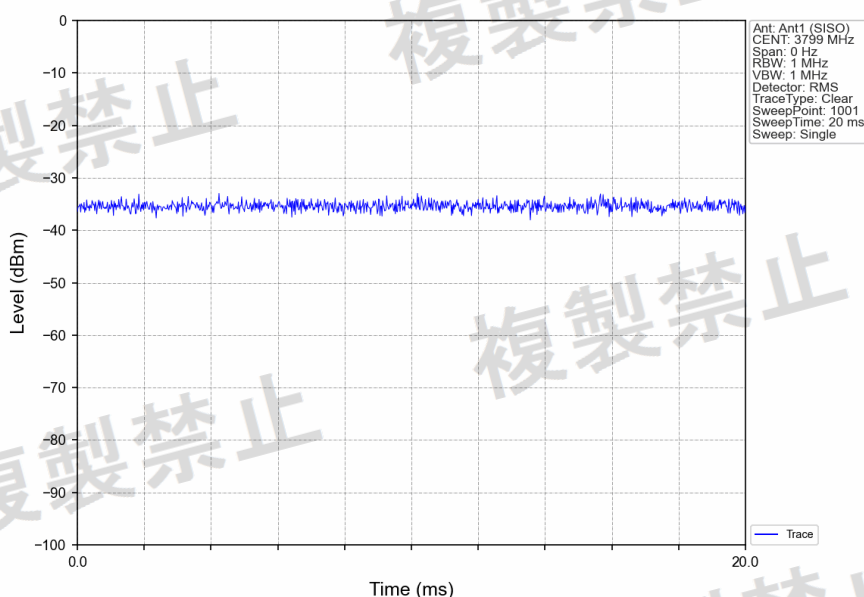
802.11b_2472MHz_Ant1 (SISO)_NTLV



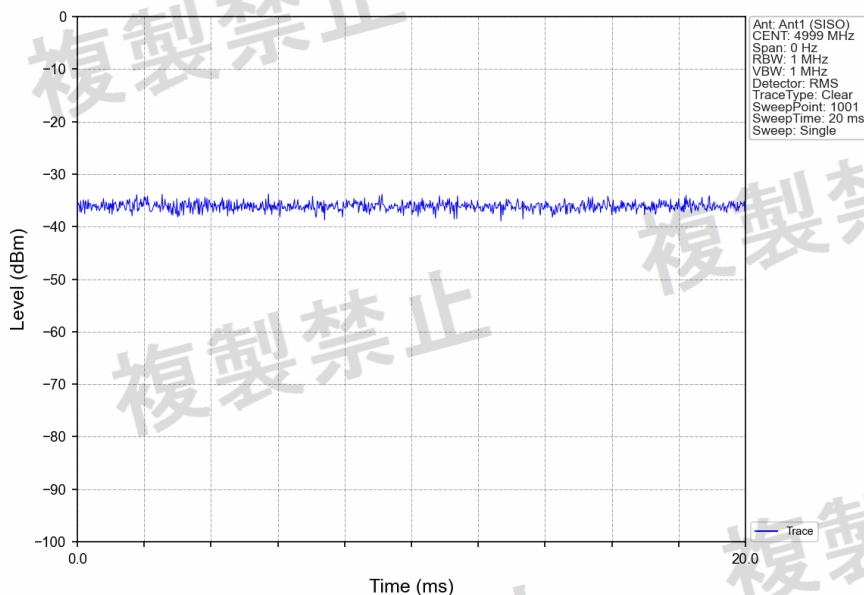
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802.11b_2472MHz_Ant1 (SISO)_NTLV



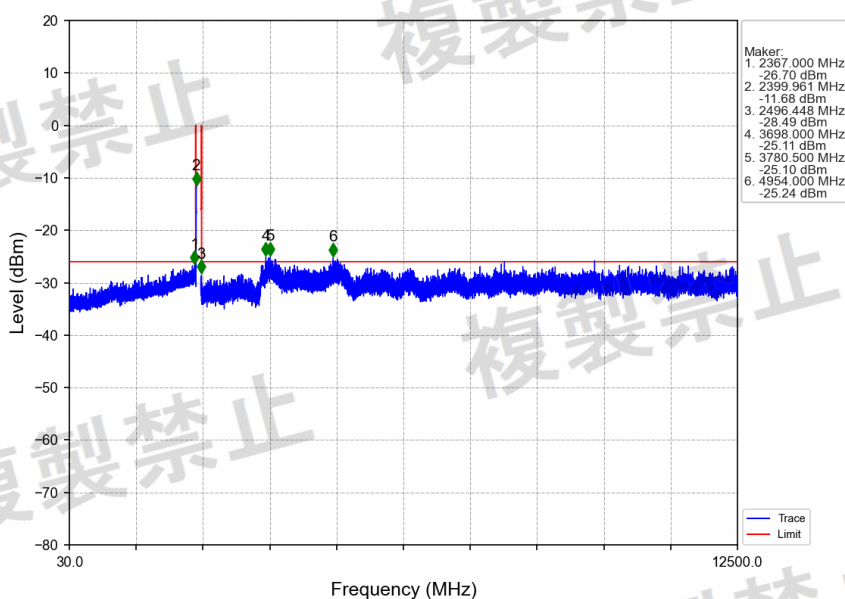
802.11b_2472MHz_Ant1 (SISO)_NTLV



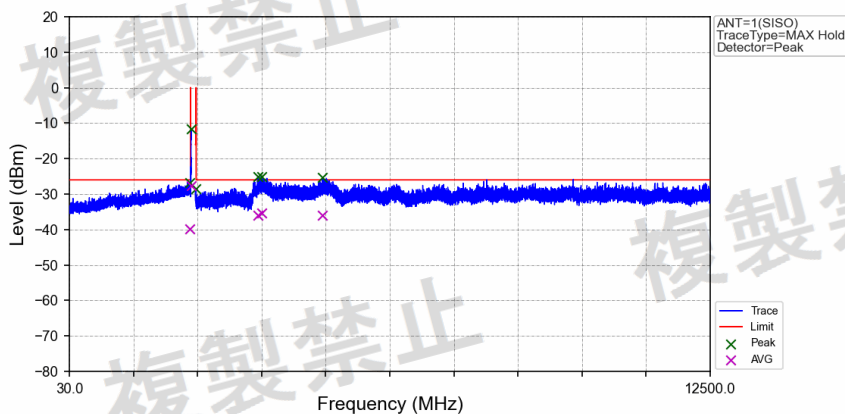
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802.11g_2412MHz_Ant1 (SISO)_NTLV



802.11g_2412MHz_Ant1 (SISO)_NTLV

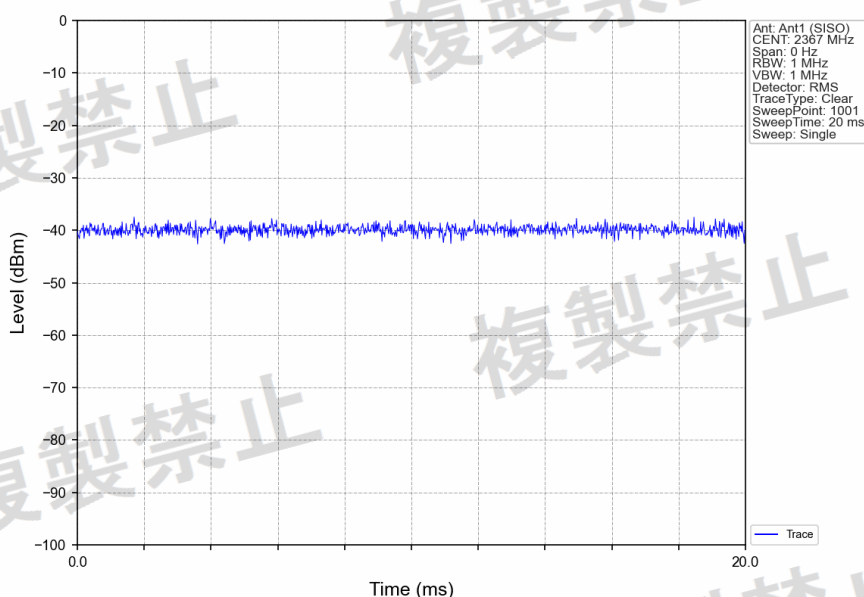


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2367.000	-26.70	-39.84	-26	Pass
2387	2400	1	1	2399.961	-11.68	-27.74	-16	Pass
2483.5	2496.5	1	1	2496.448	-28.49	/	-16	Pass
2496.5	12500	1	1	3698.000	-25.11	-36.07	-26	Pass
2496.5	12500	1	1	3780.500	-25.10	-35.40	-26	Pass
2496.5	12500	1	1	4954.000	-25.24	-35.96	-26	Pass

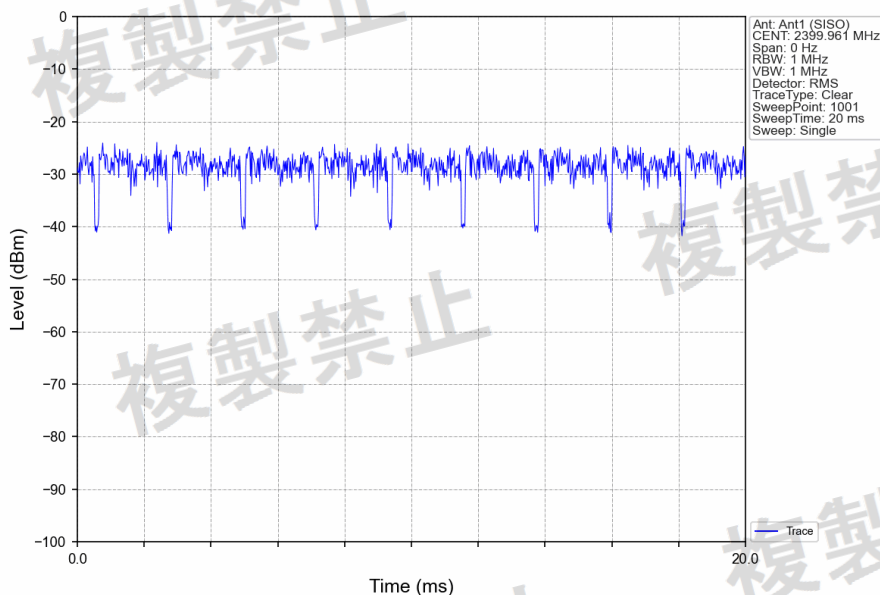
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802.11g_2412MHz_Ant1 (SISO)_NTLV



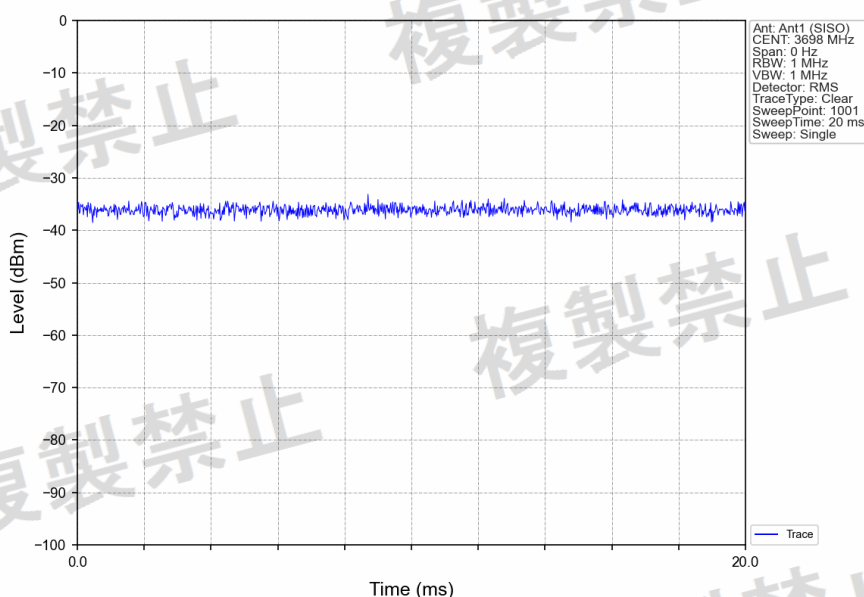
802.11g_2412MHz_Ant1 (SISO)_NTLV



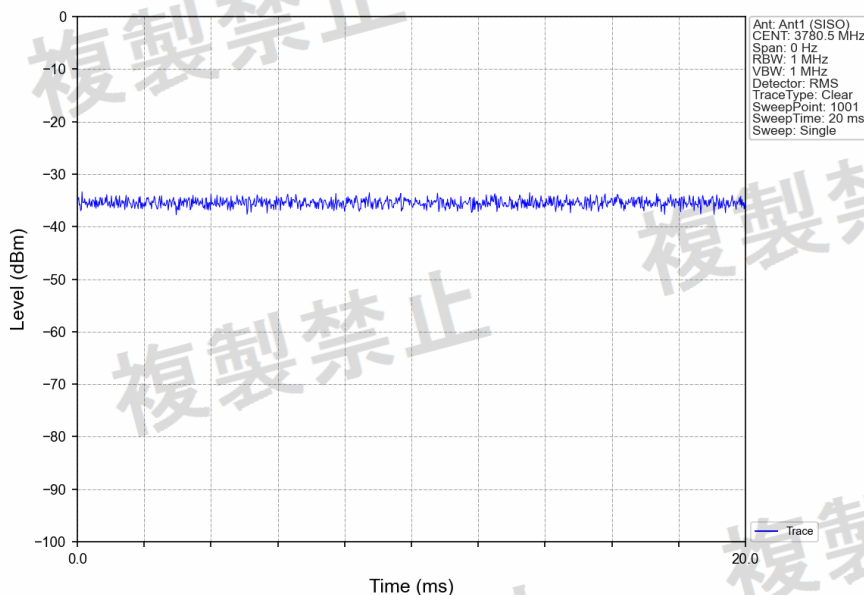
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802.11g_2412MHz_Ant1 (SISO)_NTLV



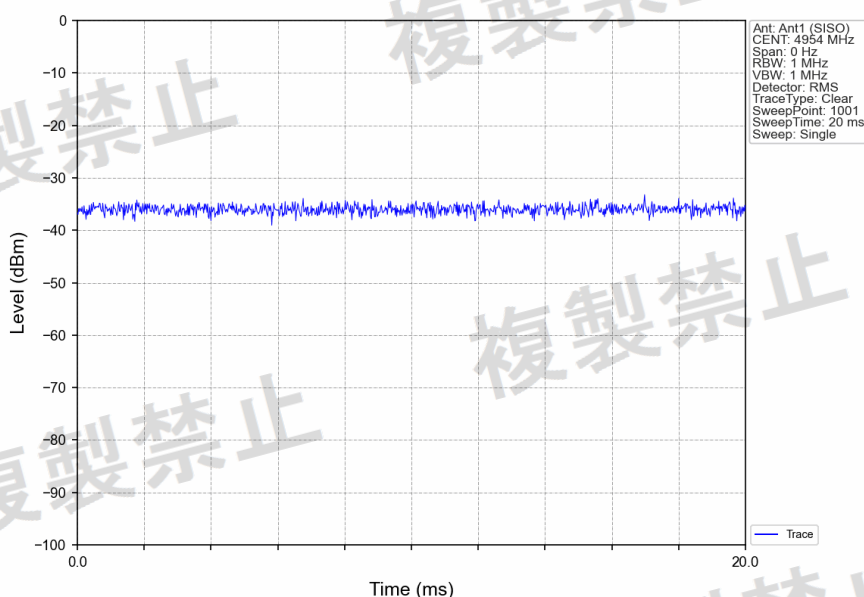
802.11g_2412MHz_Ant1 (SISO)_NTLV



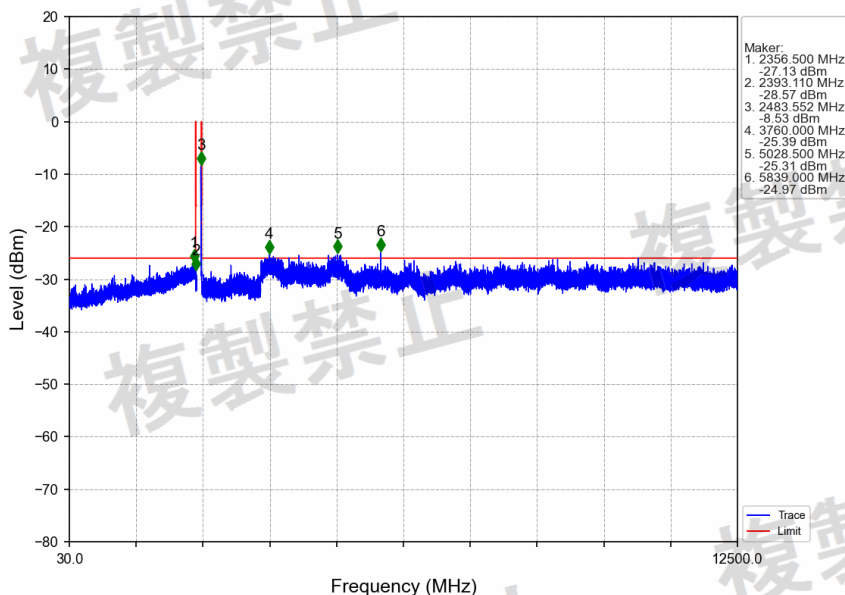
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802.11g_2412MHz_Ant1 (SISO)_NTLV



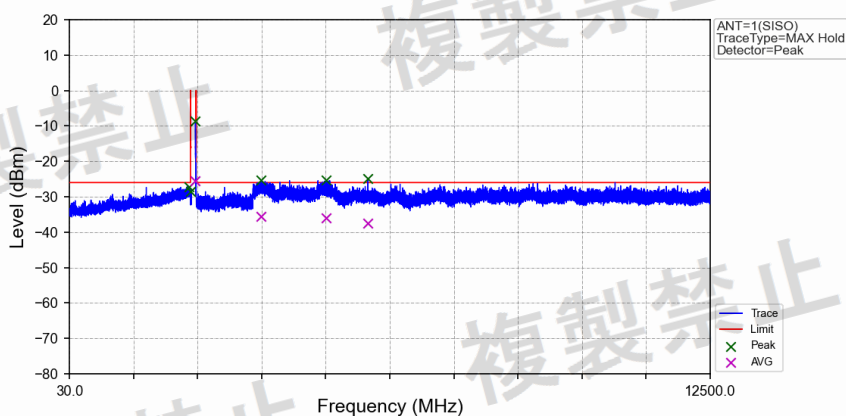
802.11g_2472MHz_Ant1 (SISO)_NTLV



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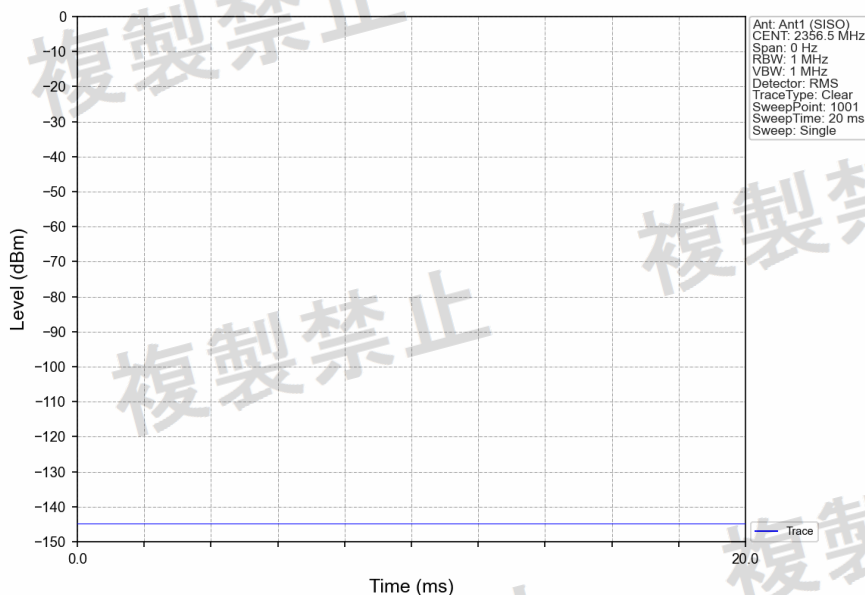
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802.11g_2472MHz_Ant1 (SISO)_NTLV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2356.500	-27.13	-144.82	-26	Pass
2387	2400	1	1	2393.110	-28.57	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-8.53	-25.51	-16	Pass
2496.5	12500	1	1	3760.000	-25.39	-35.51	-26	Pass
2496.5	12500	1	1	5028.500	-25.31	-35.99	-26	Pass
2496.5	12500	1	1	5839.000	-24.97	-37.53	-26	Pass

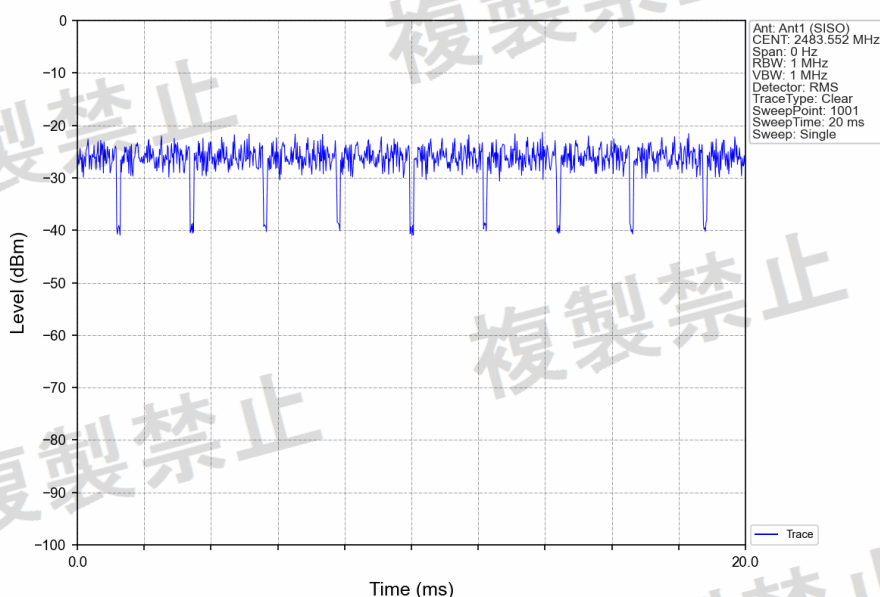
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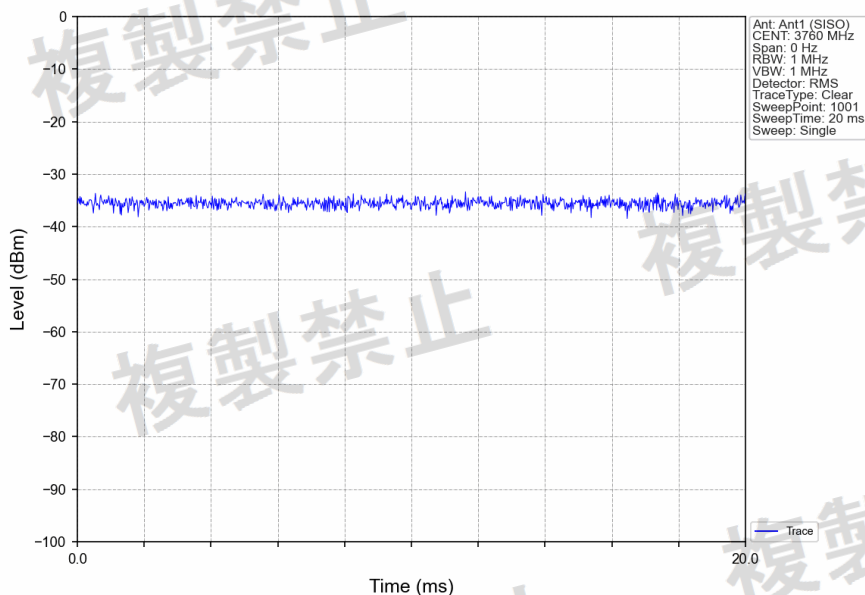
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802.11g_2472MHz_Ant1 (SISO)_NTLV



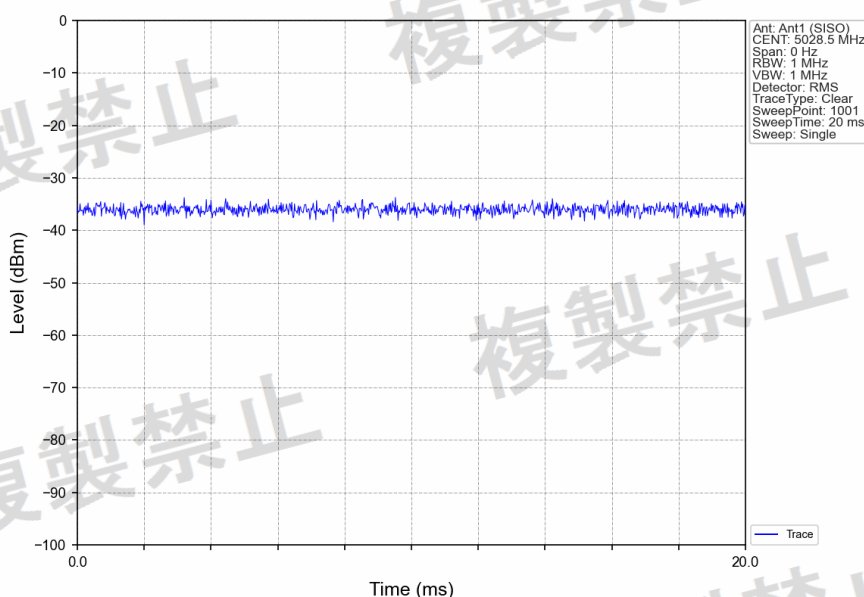
802.11g_2472MHz_Ant1 (SISO)_NTLV



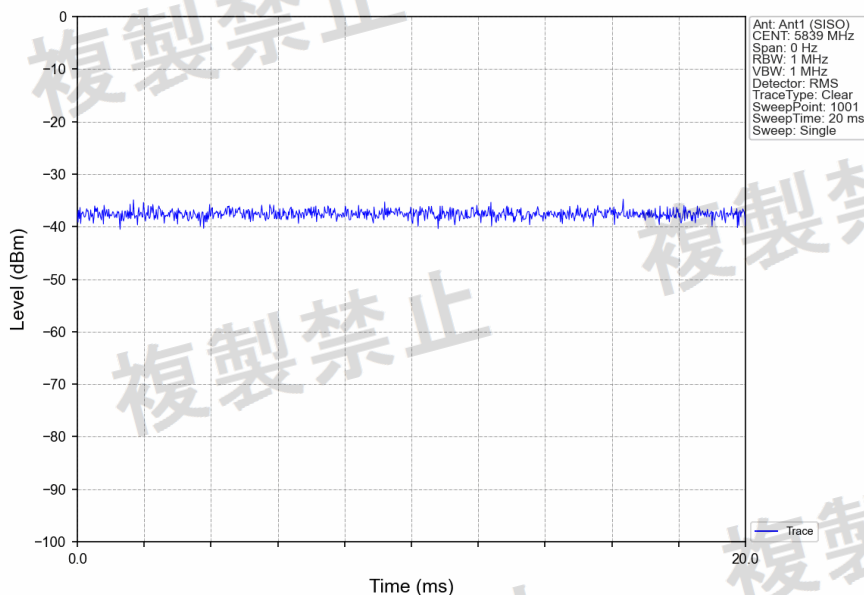
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802.11g_2472MHz_Ant1 (SISO)_NTLV



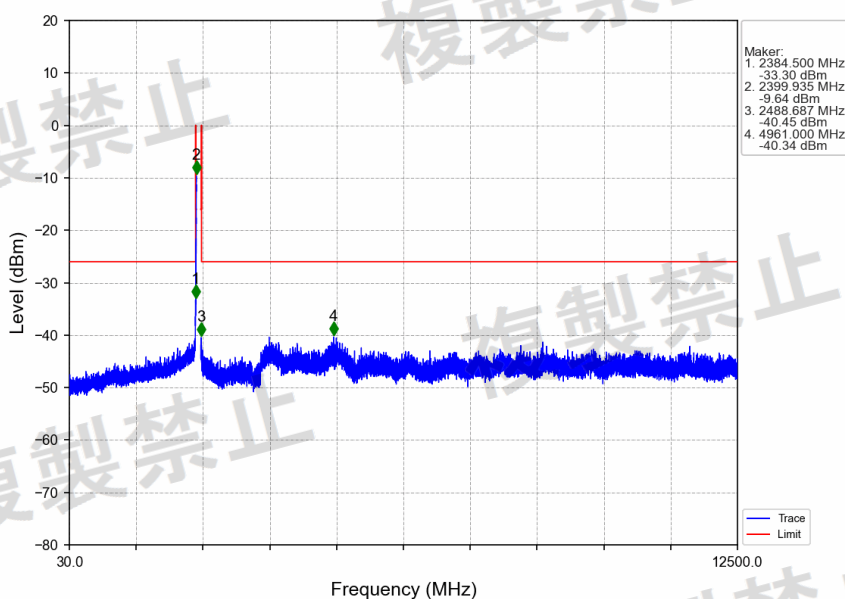
802.11g_2472MHz_Ant1 (SISO)_NTLV



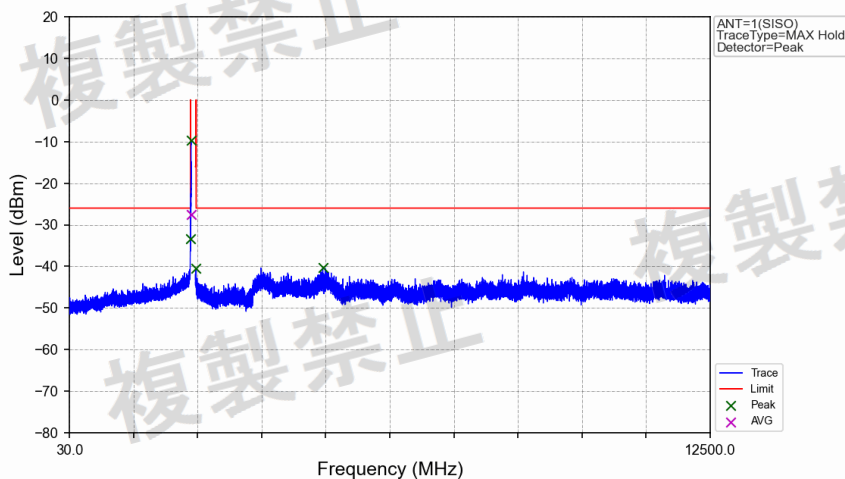
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV

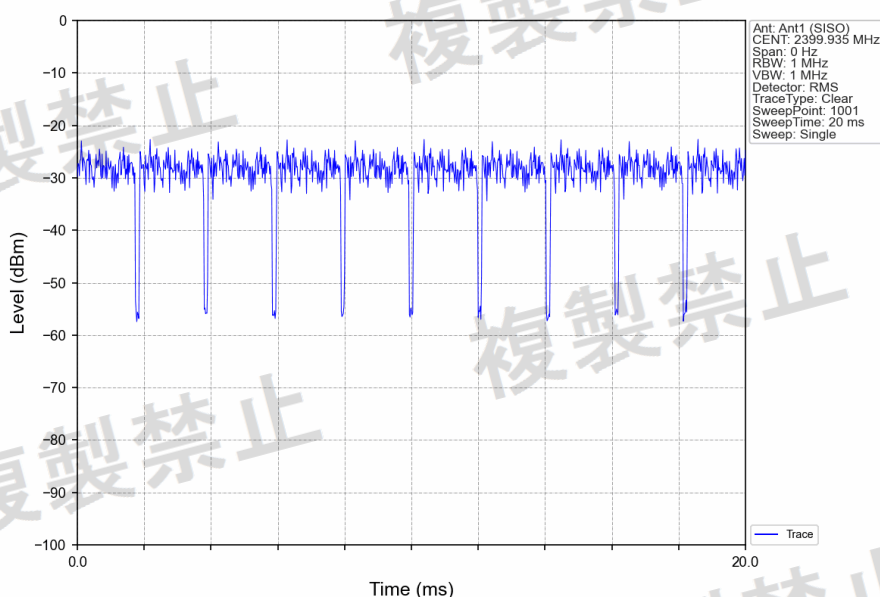


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.500	-33.30	/	-26	Pass
2387	2400	1	1	2399.935	-9.64	-27.54	-16	Pass
2483.5	2496.5	1	1	2488.687	-40.45	/	-16	Pass
2496.5	12500	1	1	4961.000	-40.34	/	-26	Pass

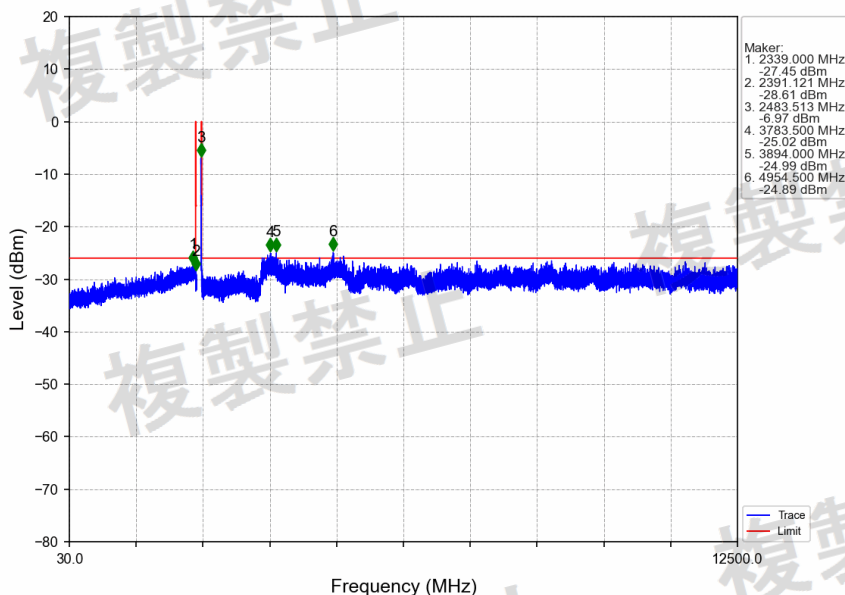
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



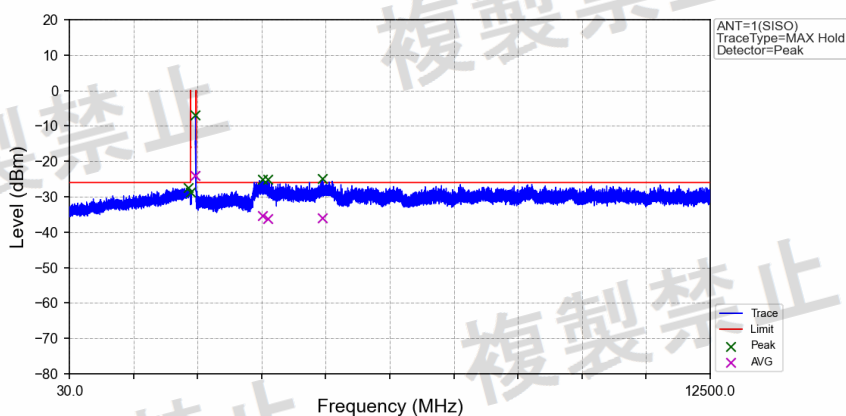
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



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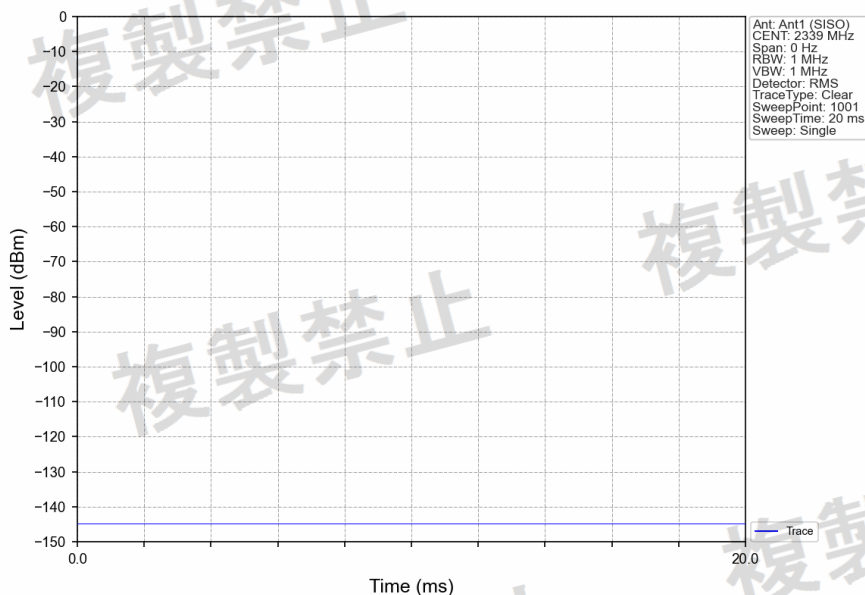
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2339.000	-27.45	-144.82	-26	Pass
2387	2400	1	1	2391.121	-28.61	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-6.97	-24.06	-16	Pass
2496.5	12500	1	1	3783.500	-25.02	-35.35	-26	Pass
2496.5	12500	1	1	3894.000	-24.99	-36.15	-26	Pass
2496.5	12500	1	1	4954.500	-24.89	-35.90	-26	Pass

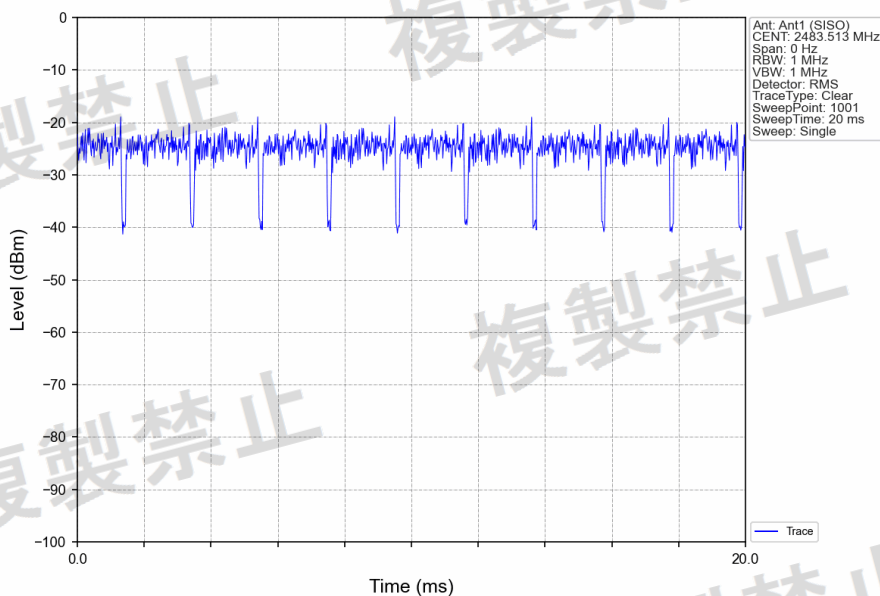
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



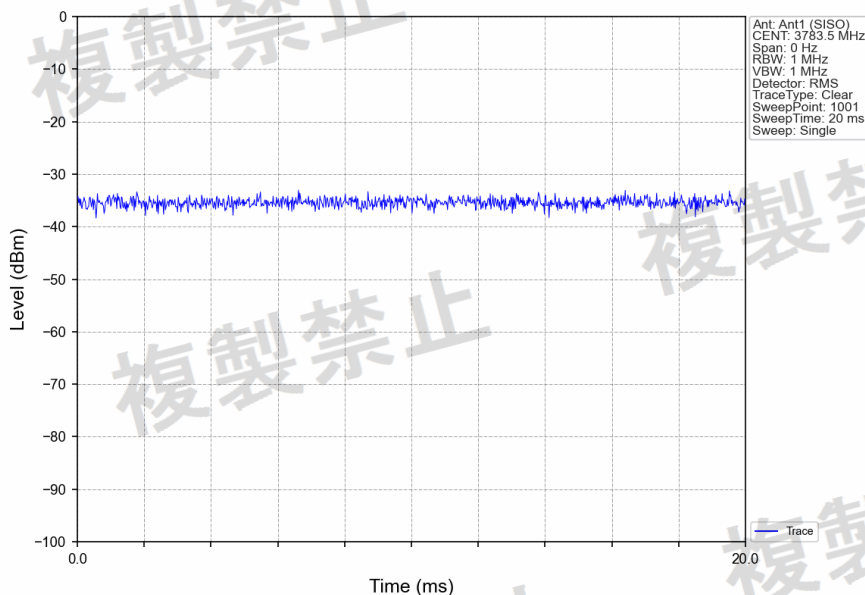
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



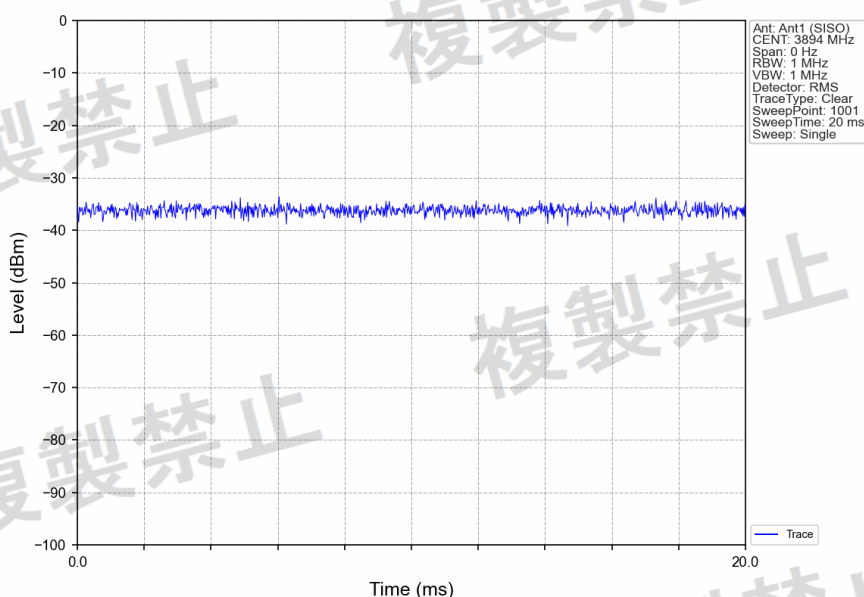
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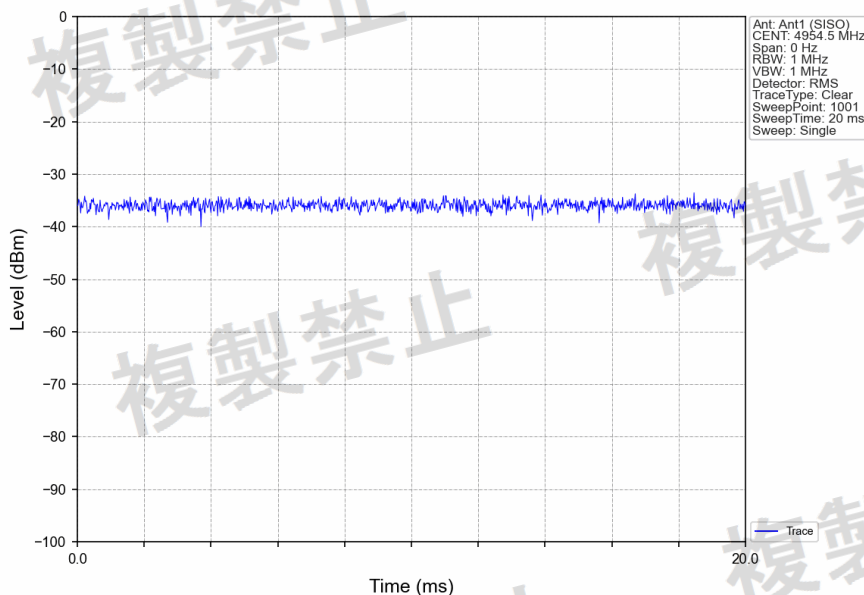
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV

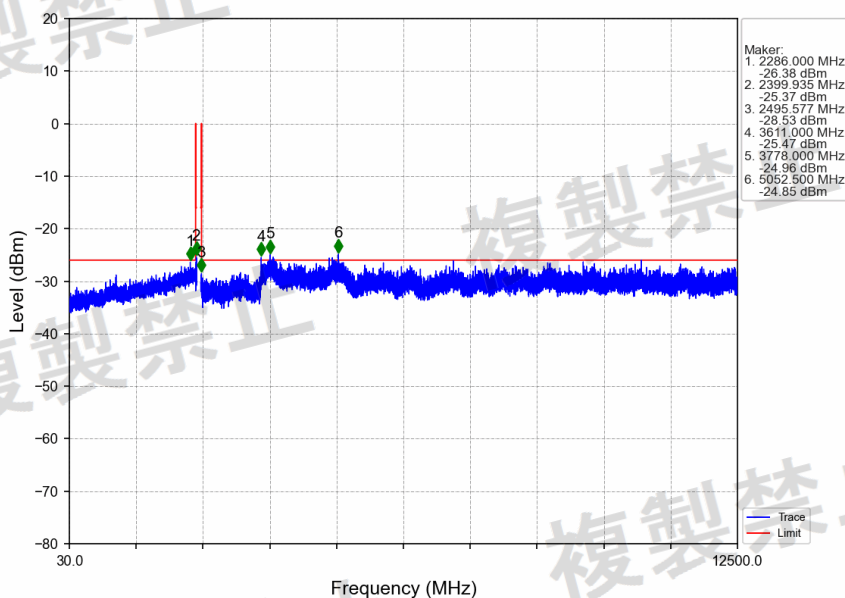


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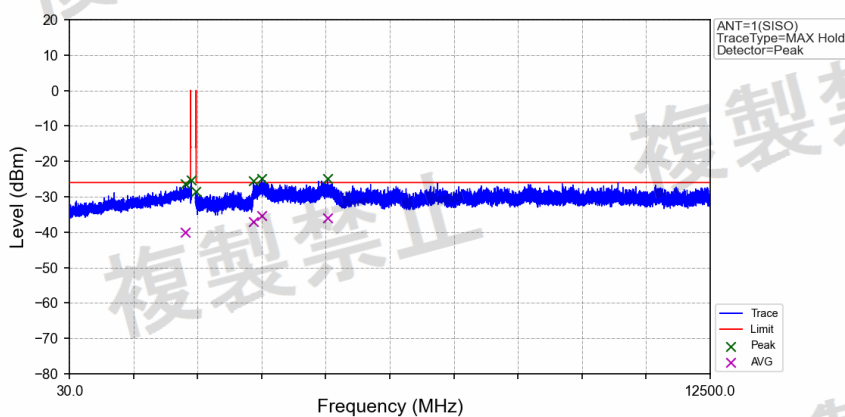
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4.2.3 TxSe_NTHV

802.11b_2412MHz_Ant1 (SISO)_NTHV



802.11b_2412MHz_Ant1 (SISO)_NTHV

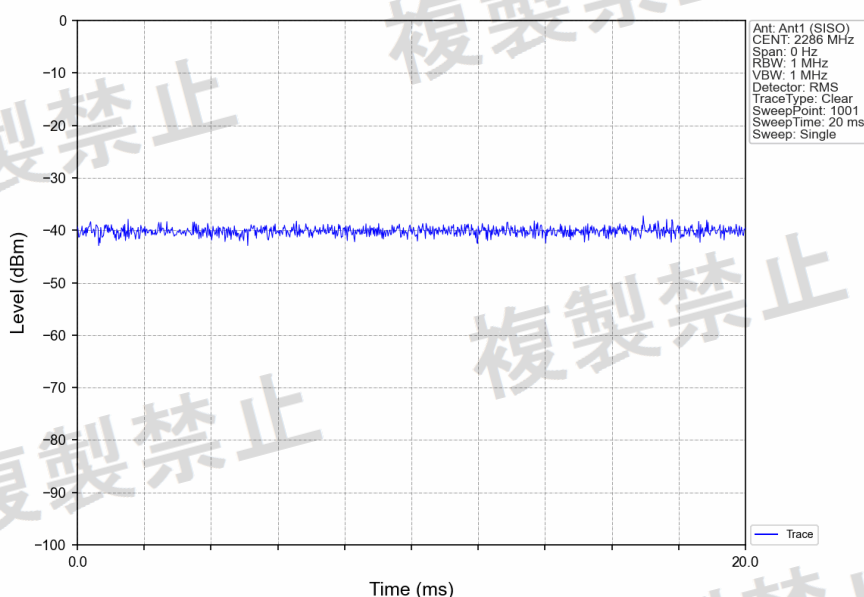


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2286.000	-26.38	-40.11	-26	Pass
2387	2400	1	1	2399.935	-25.37	-	-16	Pass
2483.5	2496.5	1	1	2495.577	-28.53	-	-16	Pass
2496.5	12500	1	1	3611.000	-25.47	-37.00	-26	Pass
2496.5	12500	1	1	3778.000	-24.96	-35.42	-26	Pass
2496.5	12500	1	1	5052.500	-24.85	-35.98	-26	Pass

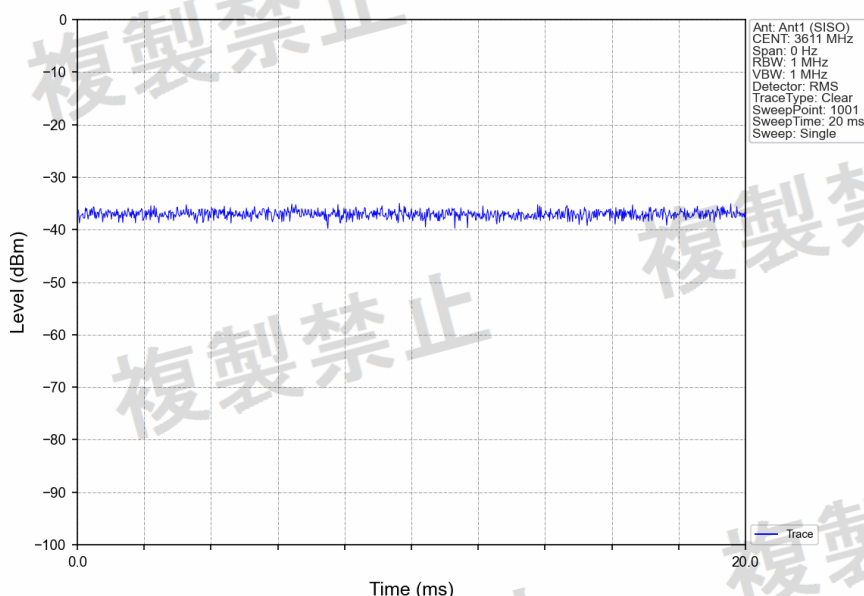
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802.11b_2412MHz_Ant1 (SISO)_NTHV



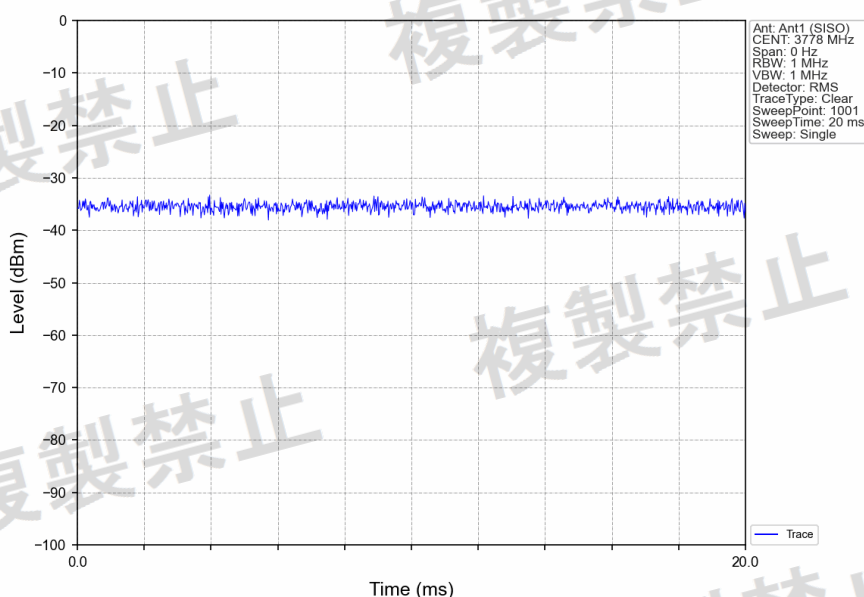
802.11b_2412MHz_Ant1 (SISO)_NTHV



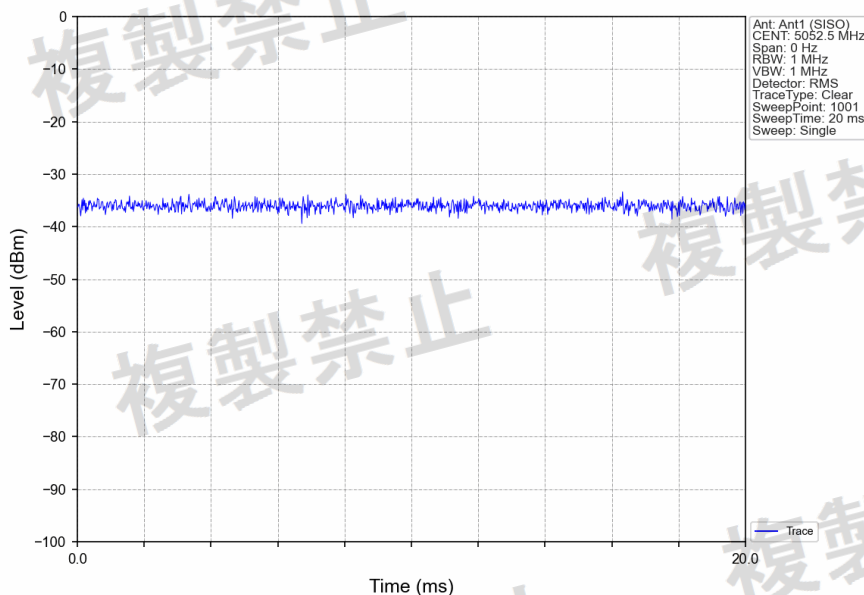
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802.11b_2412MHz_Ant1 (SISO)_NTHV



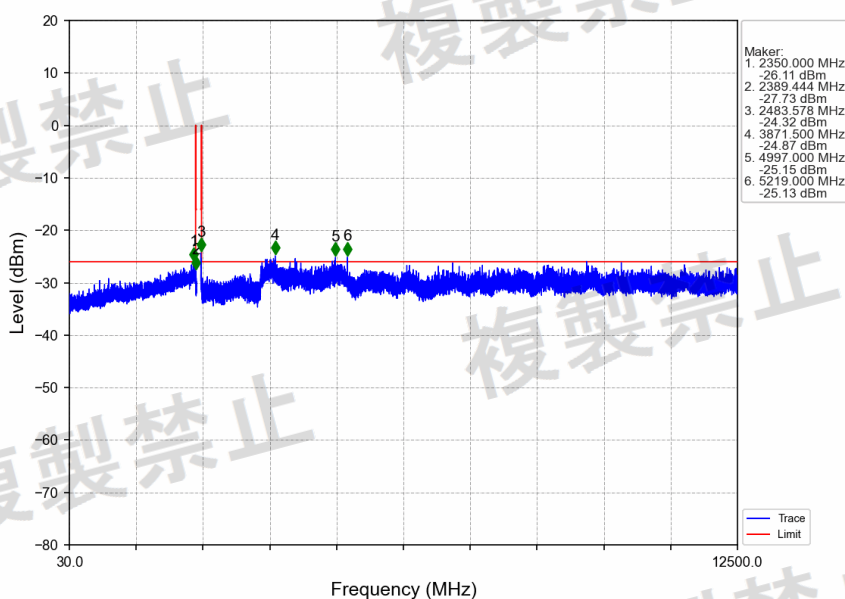
802.11b_2412MHz_Ant1 (SISO)_NTHV



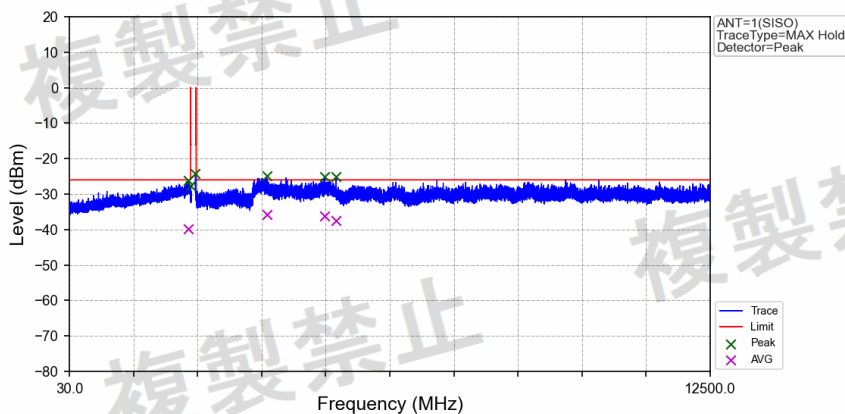
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802.11b_2472MHz_Ant1 (SISO)_NTHV



802.11b_2472MHz_Ant1 (SISO)_NTHV

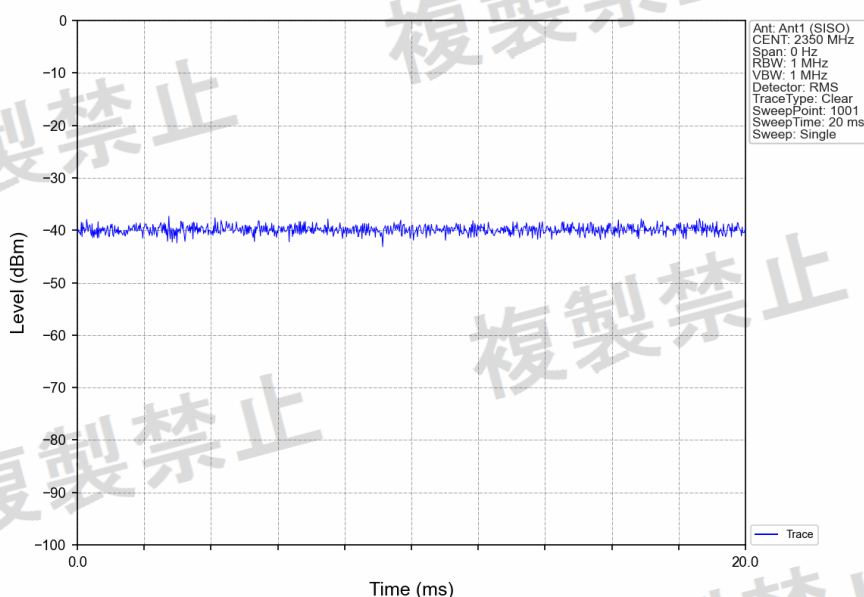


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2350.000	-26.11	-39.81	-26	Pass
2387	2400	1	1	2389.444	-27.73	/	-16	Pass
2483.5	2496.5	1	1	2483.578	-24.32	/	-16	Pass
2496.5	12500	1	1	3871.500	-24.87	-35.87	-26	Pass
2496.5	12500	1	1	4997.000	-25.15	-36.09	-26	Pass
2496.5	12500	1	1	5219.000	-25.13	-37.54	-26	Pass

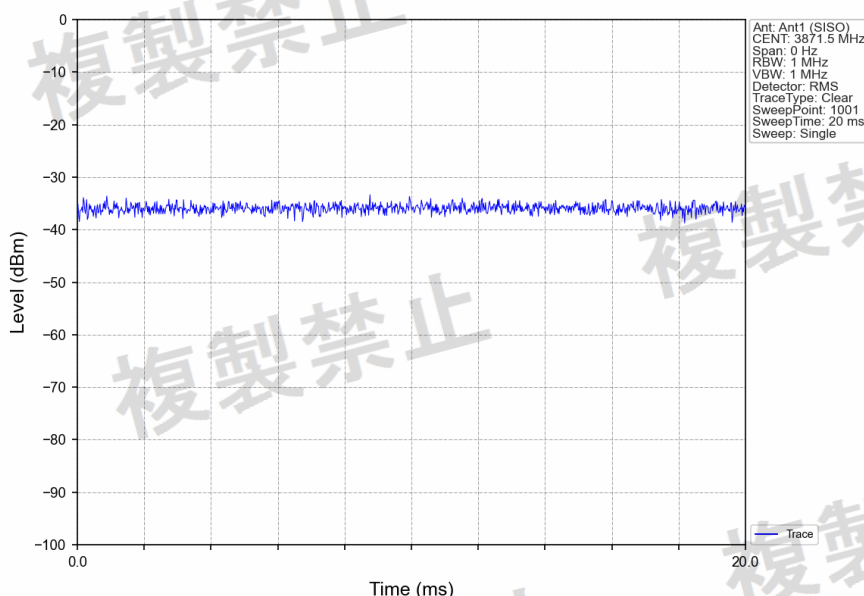
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802.11b_2472MHz_Ant1 (SISO)_NTHV



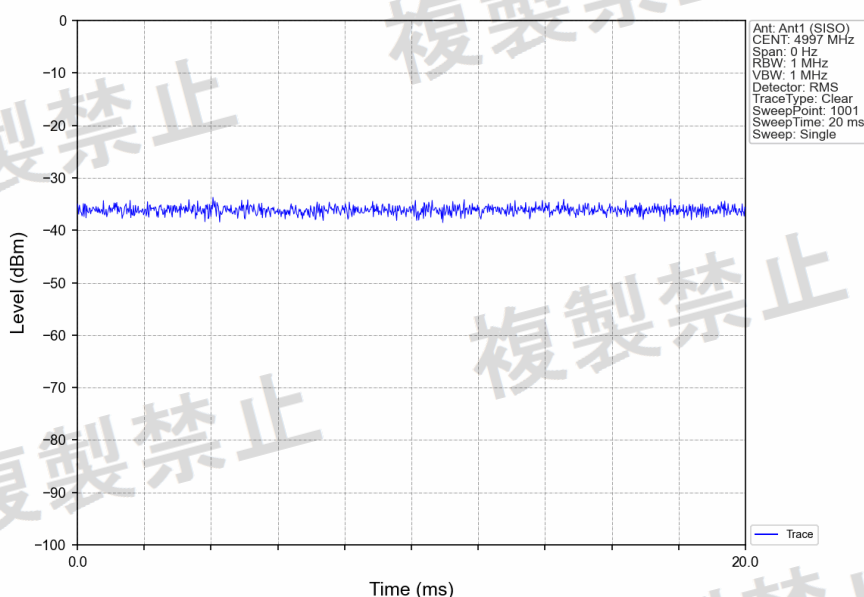
802.11b_2472MHz_Ant1 (SISO)_NTHV



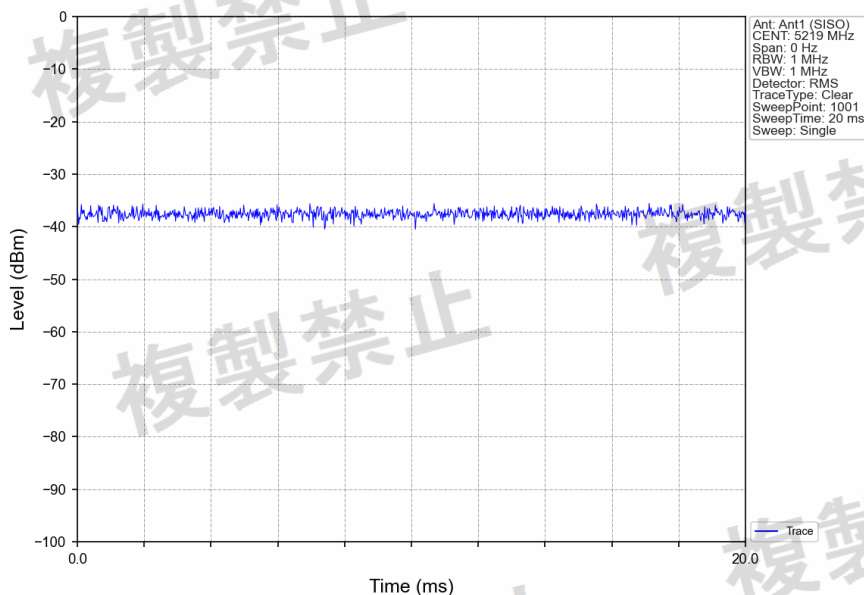
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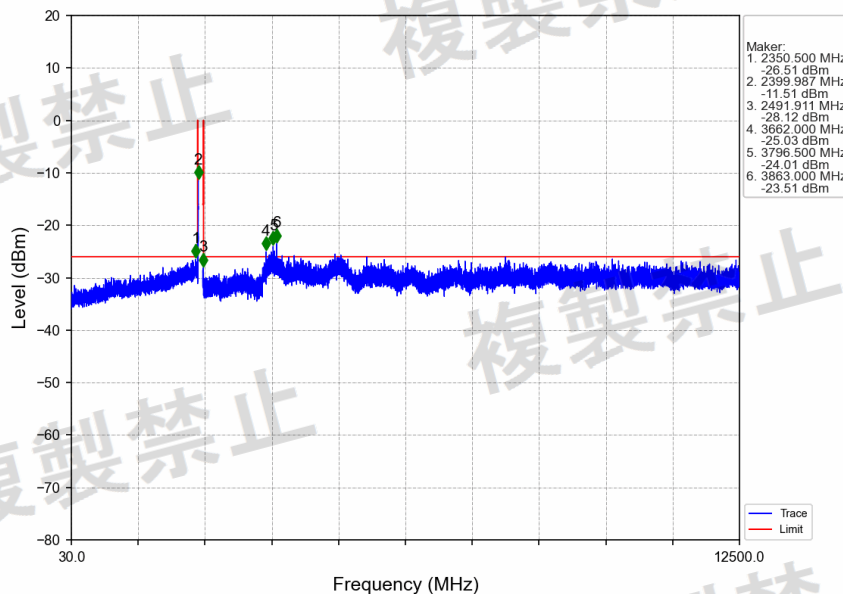
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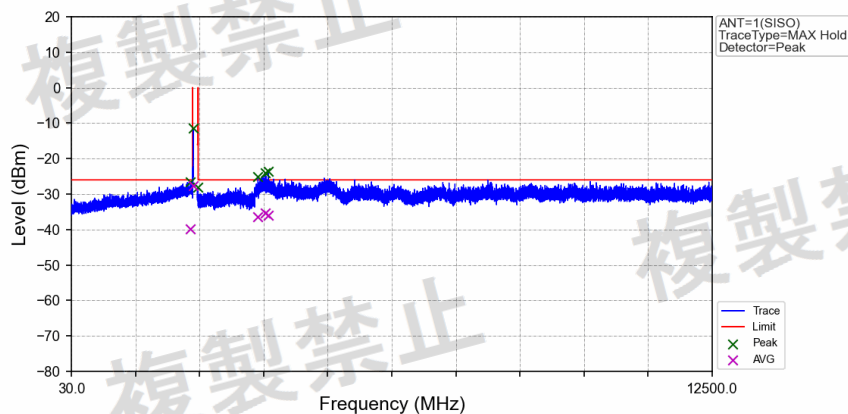
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802.11g_2412MHz_Ant1 (SISO)_NTHV



802.11g_2412MHz_Ant1 (SISO)_NTHV

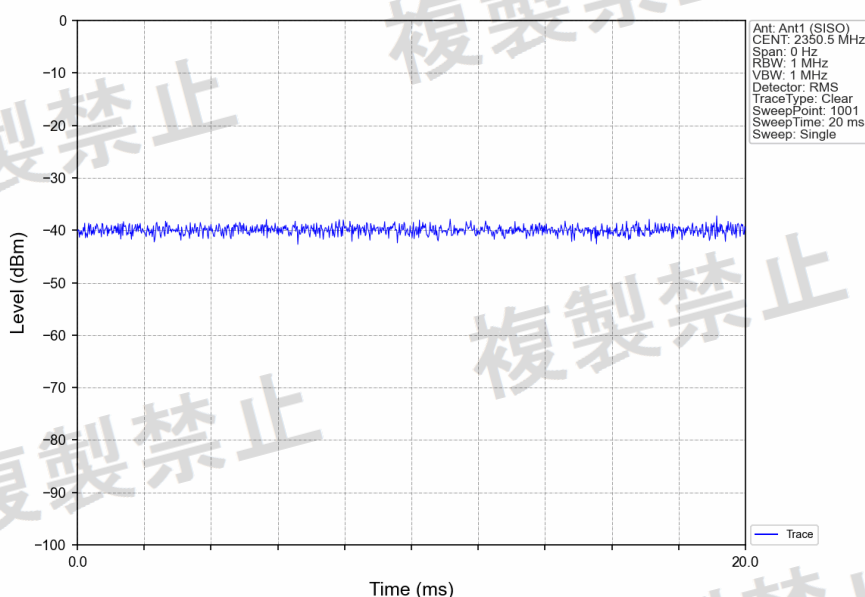


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2350.500	-26.51	-39.90	-26	Pass
2387	2400	1	1	2399.987	-11.51	-27.62	-16	Pass
2483.5	2496.5	1	1	2491.911	-28.12	/	-16	Pass
2496.5	12500	1	1	3662.000	-25.03	-36.33	-26	Pass
2496.5	12500	1	1	3796.500	-24.01	-35.38	-26	Pass
2496.5	12500	1	1	3863.000	-23.51	-35.92	-26	Pass

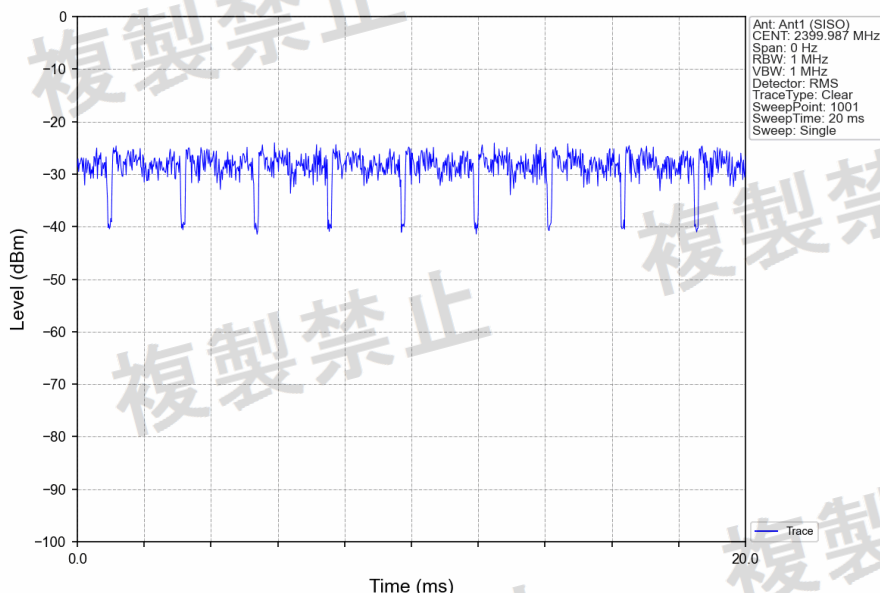
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802.11g_2412MHz_Ant1 (SISO)_NTHV



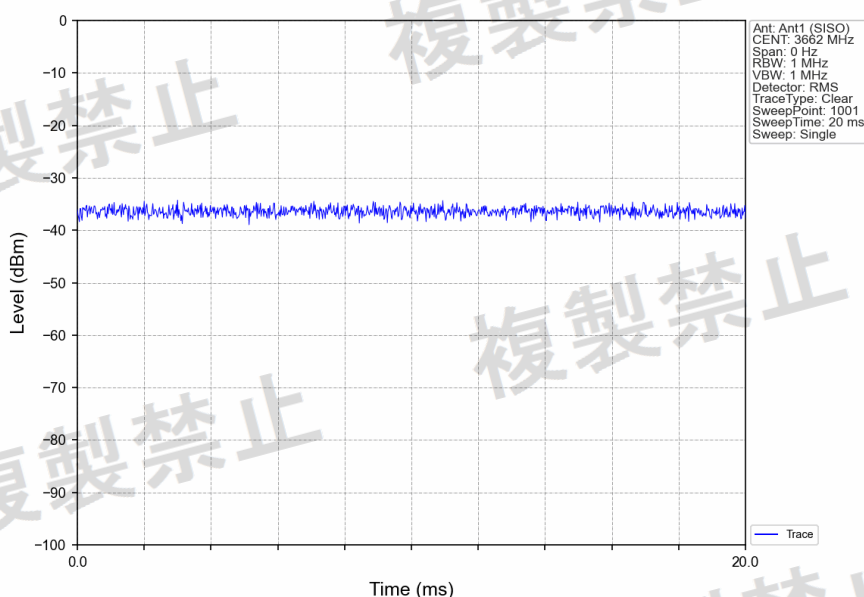
802.11g_2412MHz_Ant1 (SISO)_NTHV



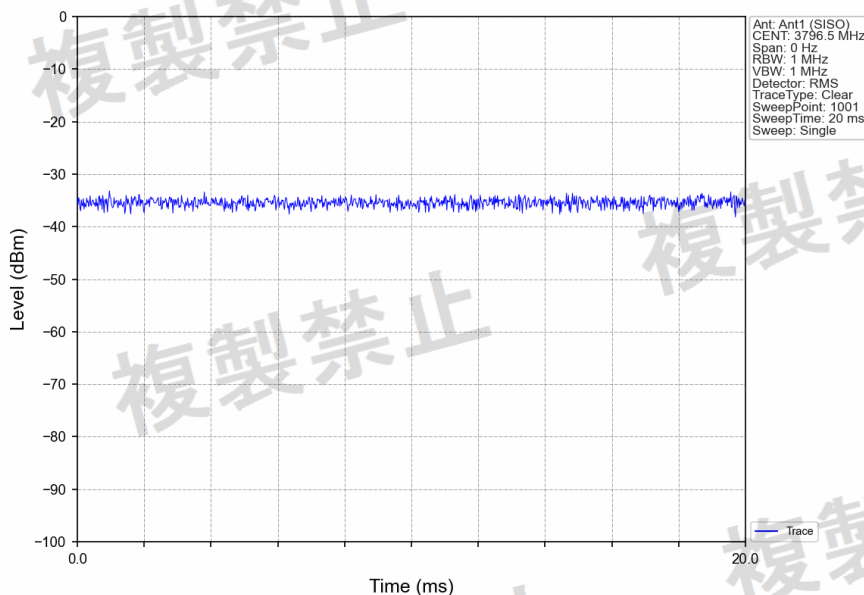
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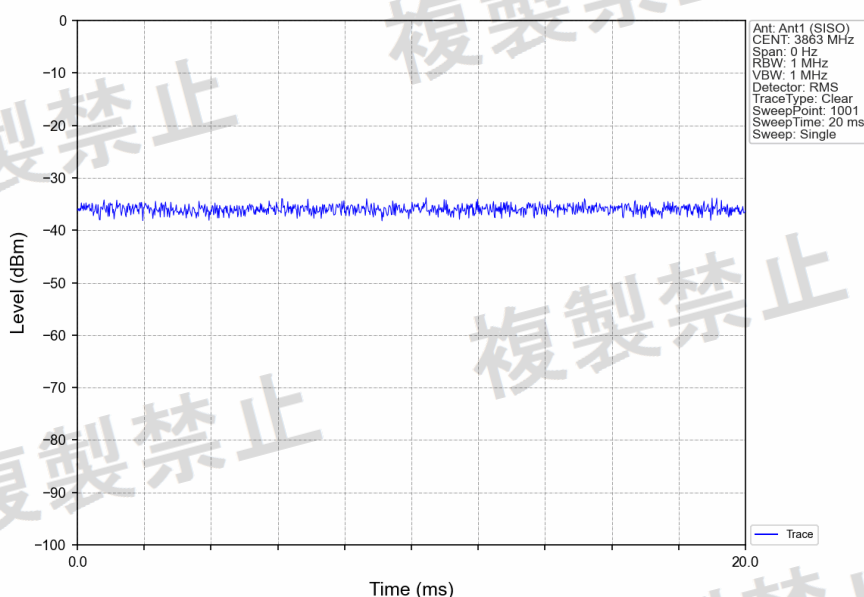
802.11g_2412MHz_Ant1 (SISO)_NTHV



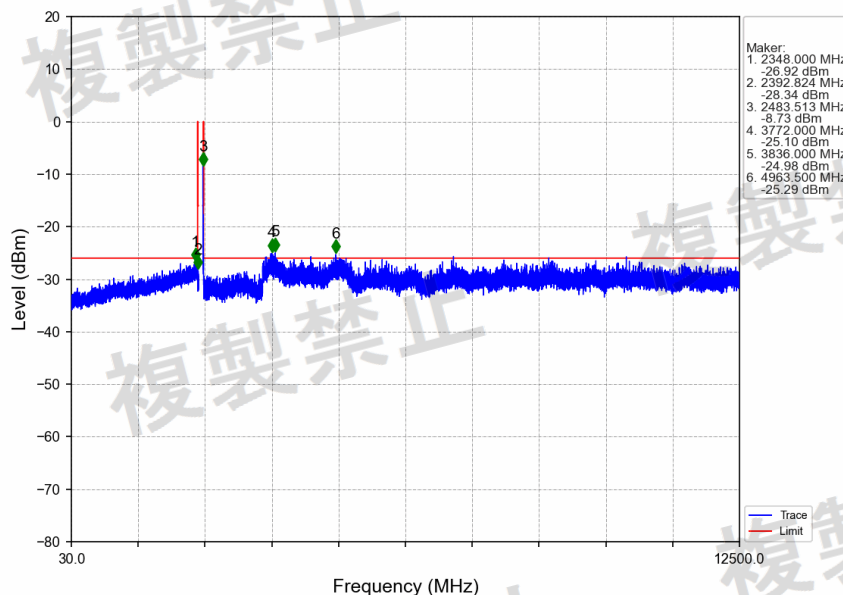
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802.11g_2412MHz_Ant1 (SISO)_NTHV



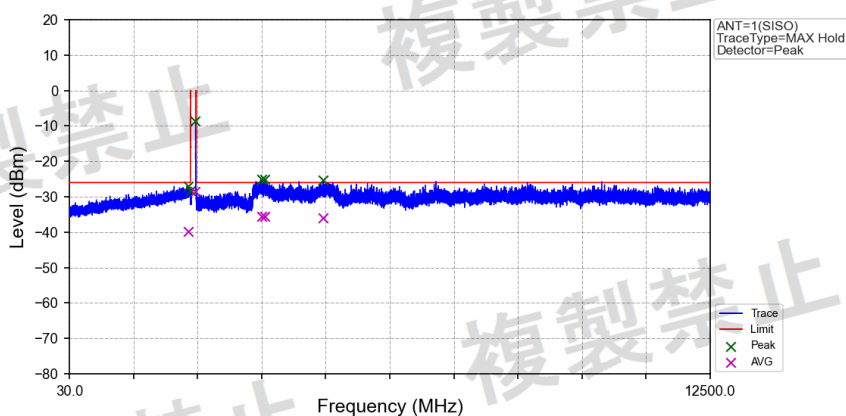
802.11g_2472MHz_Ant1 (SISO)_NTHV



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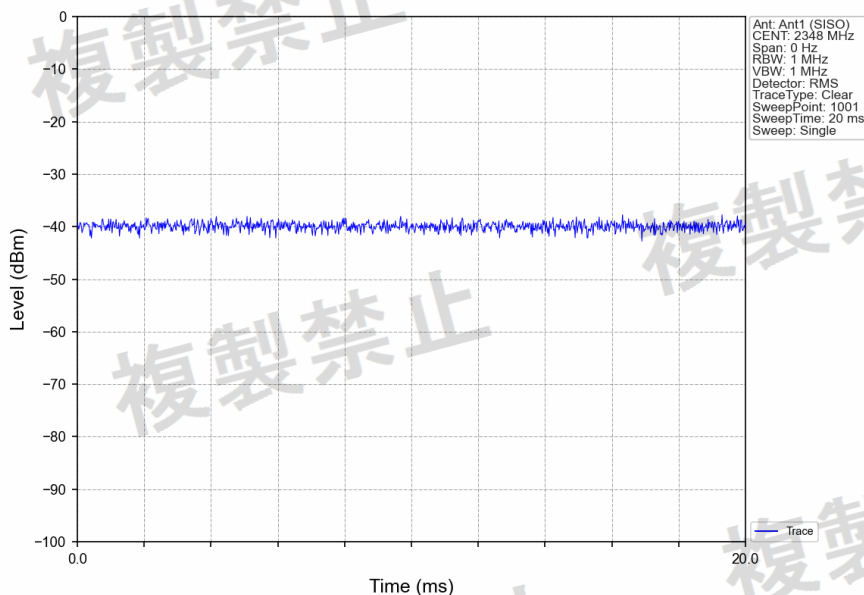
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802.11g_2472MHz_Ant1 (SISO)_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2348.000	-26.92	-39.87	-26	Pass
2387	2400	1	1	2392.824	-28.34	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-8.73	-28.54	-16	Pass
2496.5	12500	1	1	3772.000	-25.10	-35.46	-26	Pass
2496.5	12500	1	1	3836.000	-24.98	-35.57	-26	Pass
2496.5	12500	1	1	4963.500	-25.29	-35.95	-26	Pass

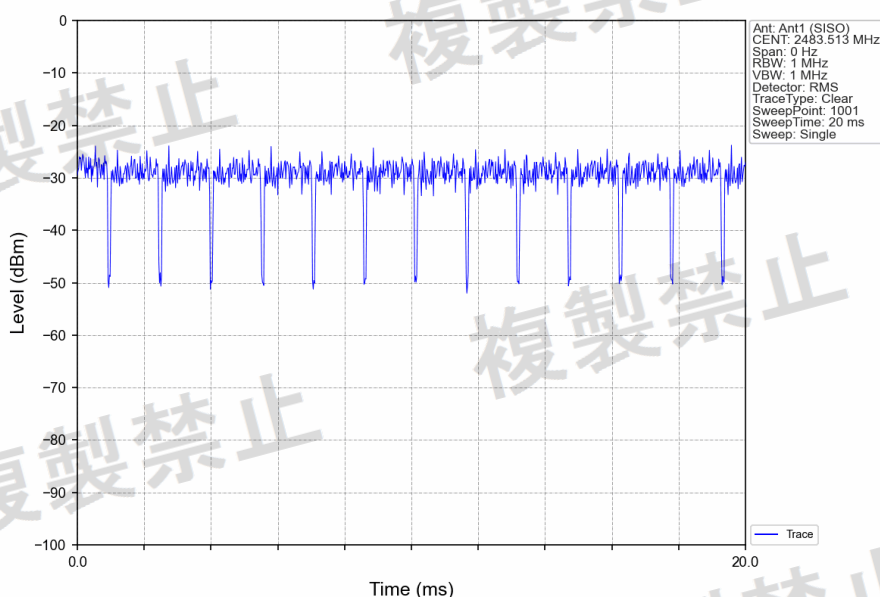
802.11g_2472MHz_Ant1 (SISO)_NTHV



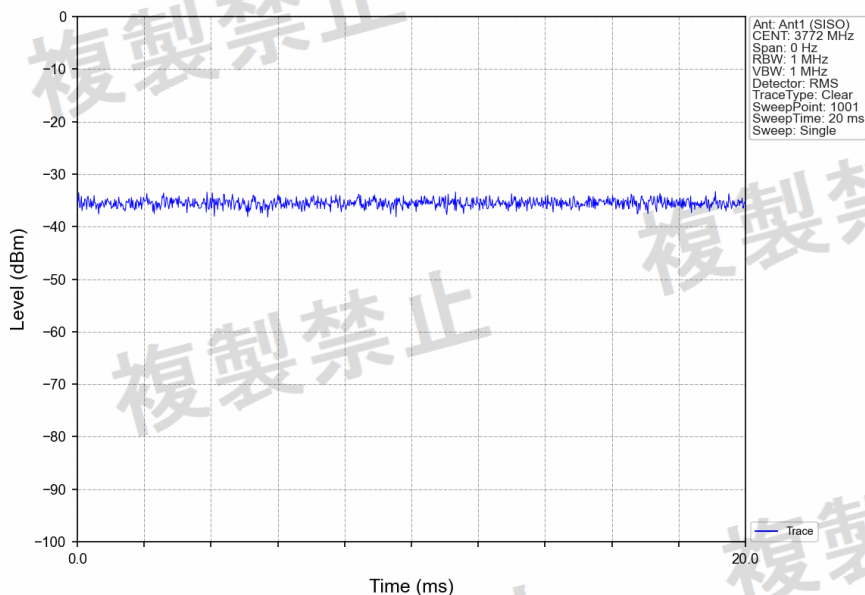
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802.11g_2472MHz_Ant1 (SISO)_NTHV



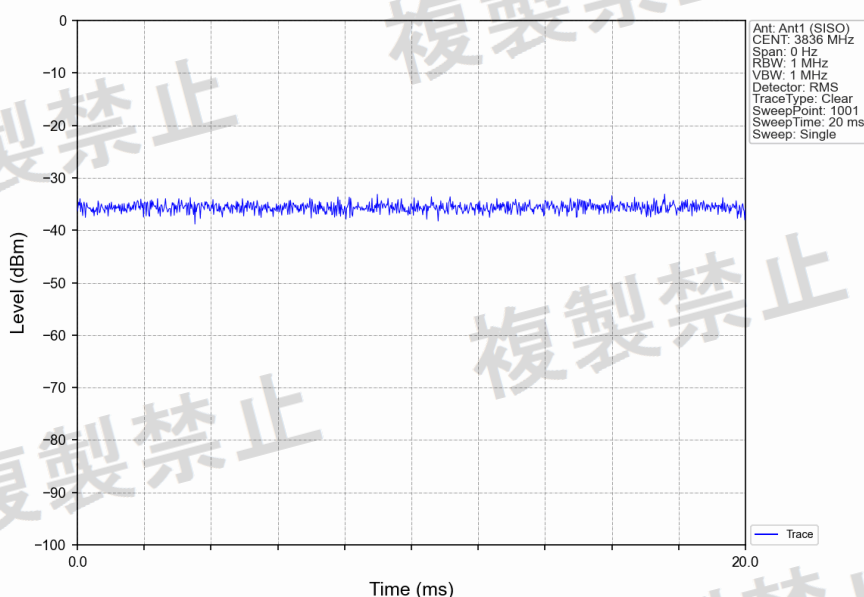
802.11g_2472MHz_Ant1 (SISO)_NTHV



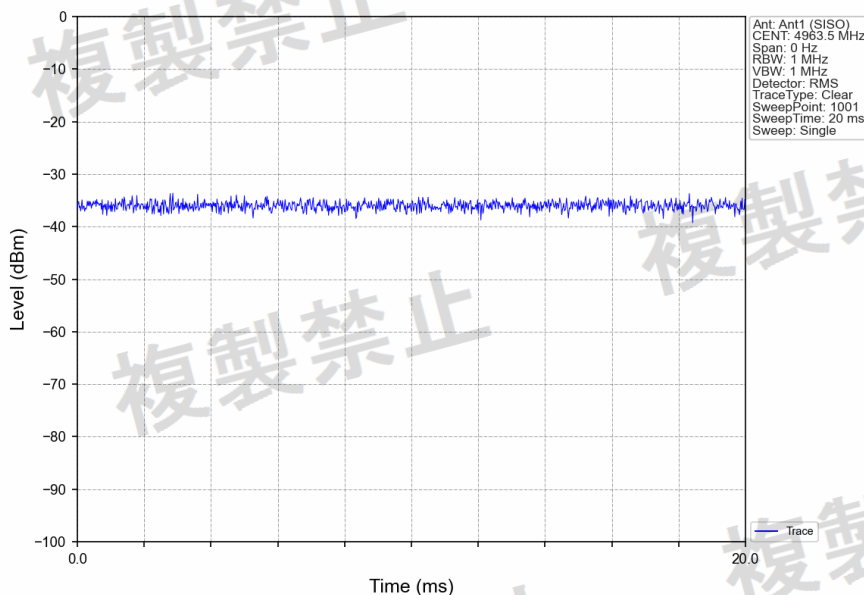
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802.11g_2472MHz_Ant1 (SISO)_NTHV



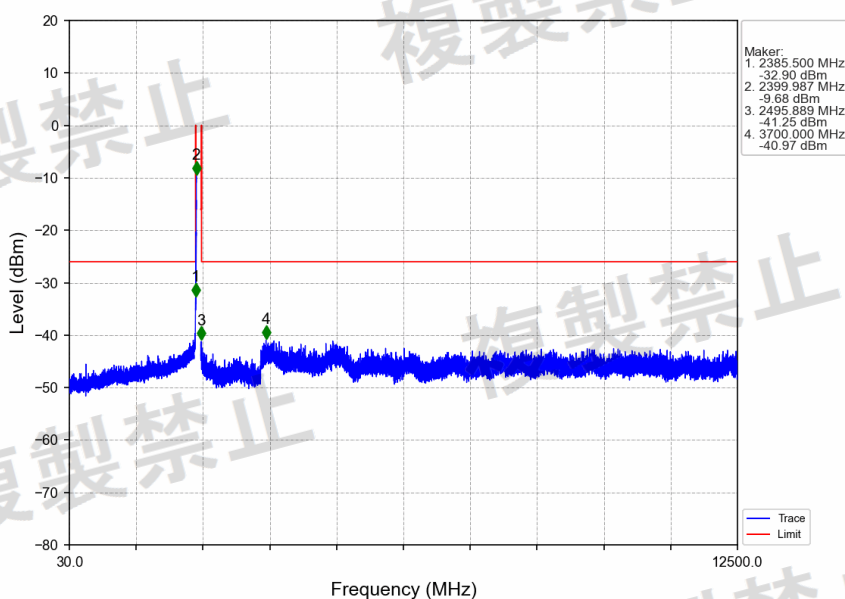
802.11g_2472MHz_Ant1 (SISO)_NTHV



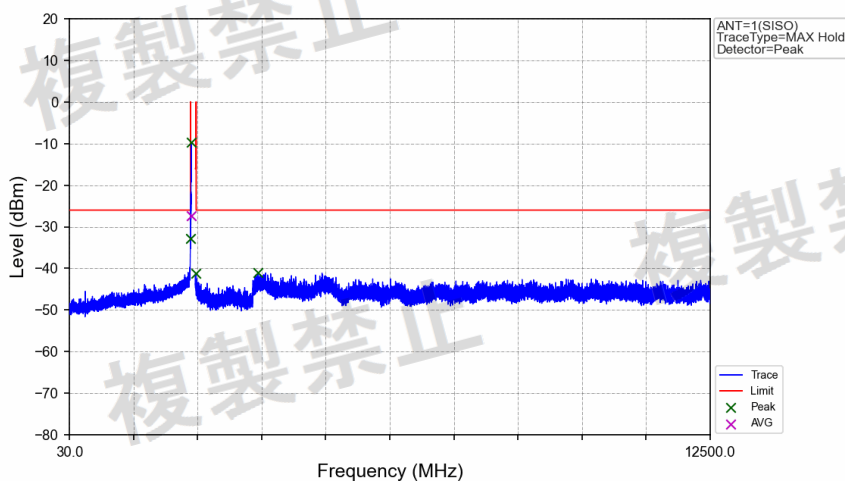
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV

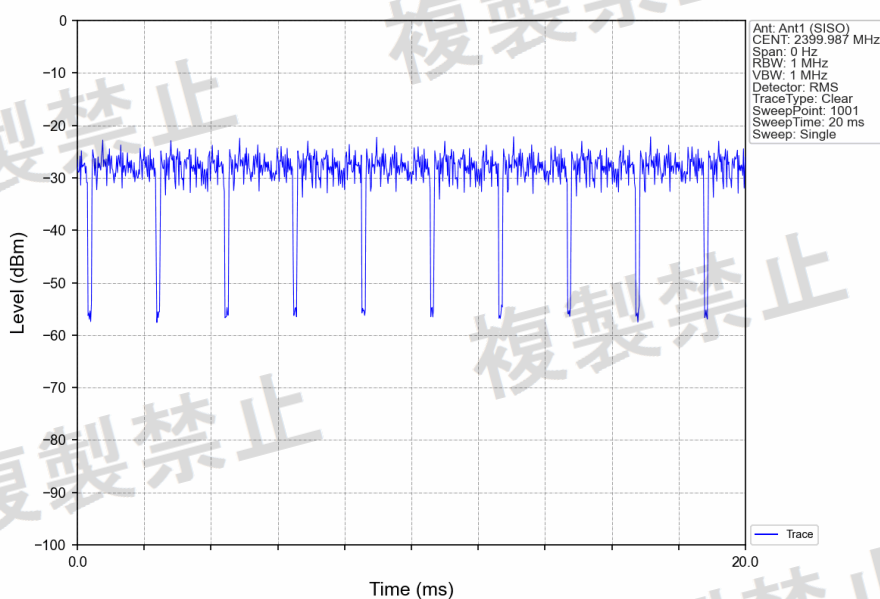


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-32.90	/	-26	Pass
2387	2400	1	1	2399.987	-9.68	-27.30	-16	Pass
2483.5	2496.5	1	1	2495.889	-41.25	/	-16	Pass
2496.5	12500	1	1	3700.000	-40.97	/	-26	Pass

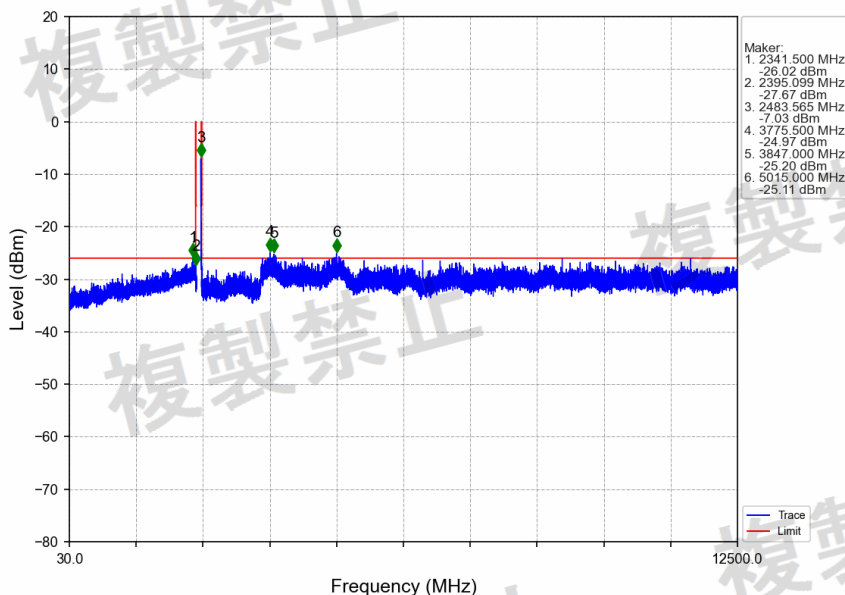
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



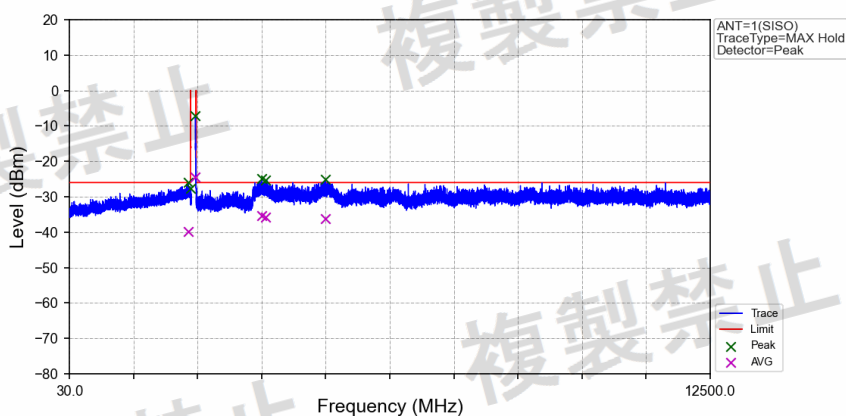
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



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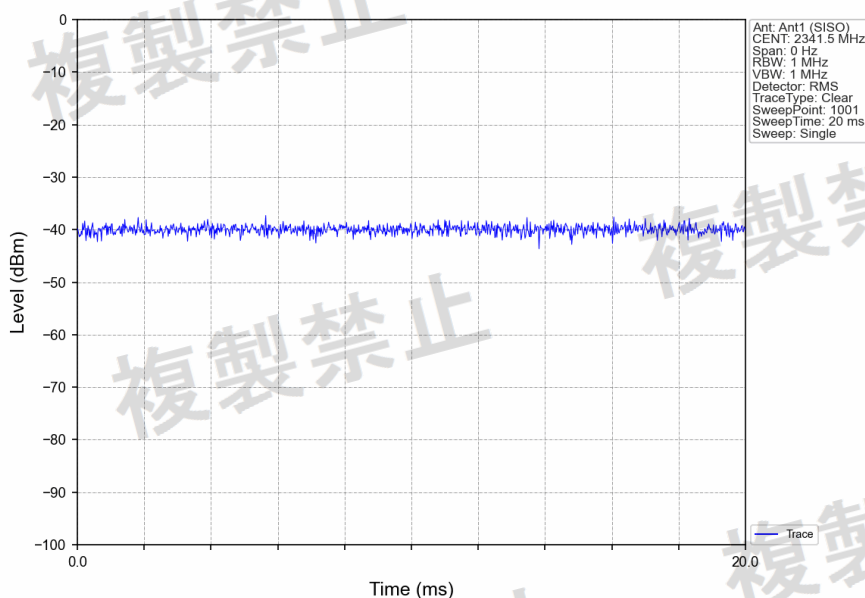
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2341.500	-26.02	-39.91	-26	Pass
2387	2400	1	1	2395.099	-27.67	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-7.03	-24.37	-16	Pass
2496.5	12500	1	1	3775.500	-24.97	-35.41	-26	Pass
2496.5	12500	1	1	3847.000	-25.20	-35.69	-26	Pass
2496.5	12500	1	1	5015.000	-25.11	-36.09	-26	Pass

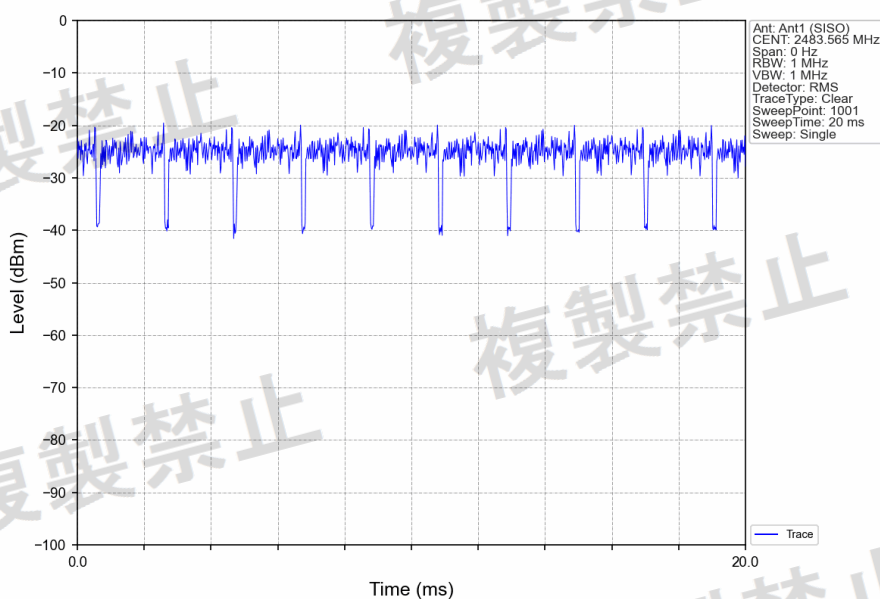
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



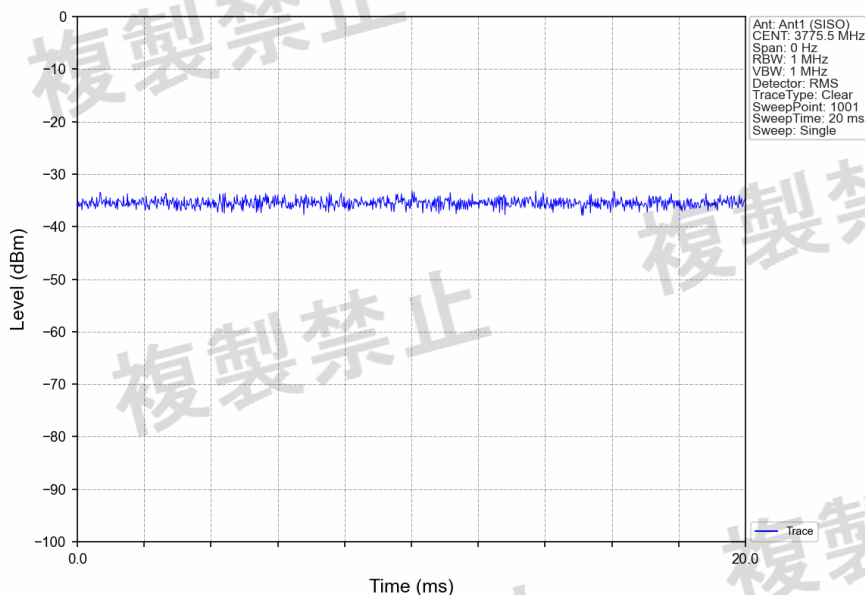
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



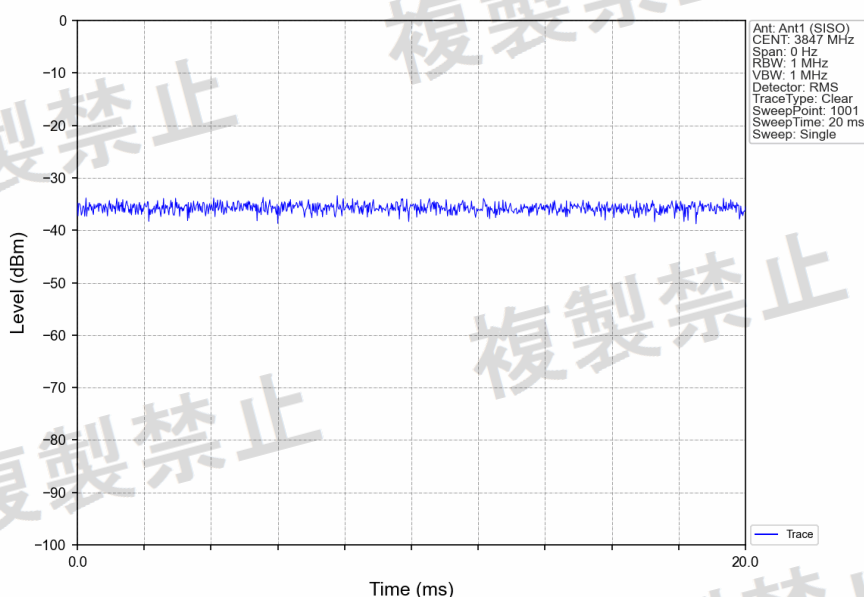
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



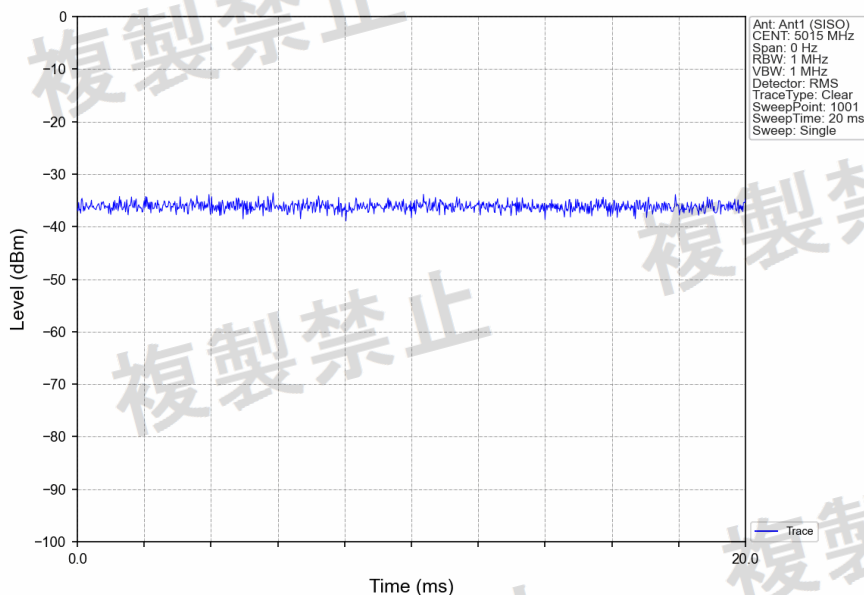
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



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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	80	-64.80	0.331	/	/	4	Pass
				1000	12500	2461.5	-58.54	1.400	/	/	20	Pass
		2472	1	30	1000	80	-64.32	0.370	/	/	4	Pass
				1000	12500	4944	-60.55	0.881	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	80	-66.78	0.210	/	/	4	Pass
				1000	12500	2407	-60.41	0.910	/	/	20	Pass
		2472	1	30	1000	80	-65.45	0.285	/	/	4	Pass
				1000	12500	3812.5	-60.86	0.820	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	80	-64.33	0.369	/	/	4	Pass
				1000	12500	1738.5	-44.75	33.497	-77.62	0.017	20	Pass
		2472	1	30	1000	80	-64.62	0.345	/	/	4	Pass
				1000	12500	2571.5	-47.48	17.865	-76.01	0.025	20	Pass

5.1.2 RxSe_NTLV

NTLV												
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	80	-65.68	0.270	/	/	4	Pass
				1000	12500	3831	-60.66	0.859	/	/	20	Pass
		2472	1	30	1000	80	-65.90	0.257	/	/	4	Pass
				1000	12500	3812.5	-60.23	0.948	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	80	-67.32	0.185	/	/	4	Pass
				1000	12500	1923.5	-41.81	65.917	-77.40	0.018	20	Pass
		2472	1	30	1000	80	-66.23	0.238	/	/	4	Pass
				1000	12500	3764	-60.44	0.904	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	80	-67.61	0.173	/	/	4	Pass
				1000	12500	2413.5	-49.25	11.885	-76.18	0.024	20	Pass
		2472	1	30	1000	80	-65.41	0.288	/	/	4	Pass
				1000	12500	3748.5	-60.60	0.871	/	/	20	Pass

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5.1.3 RxSe_NTHV

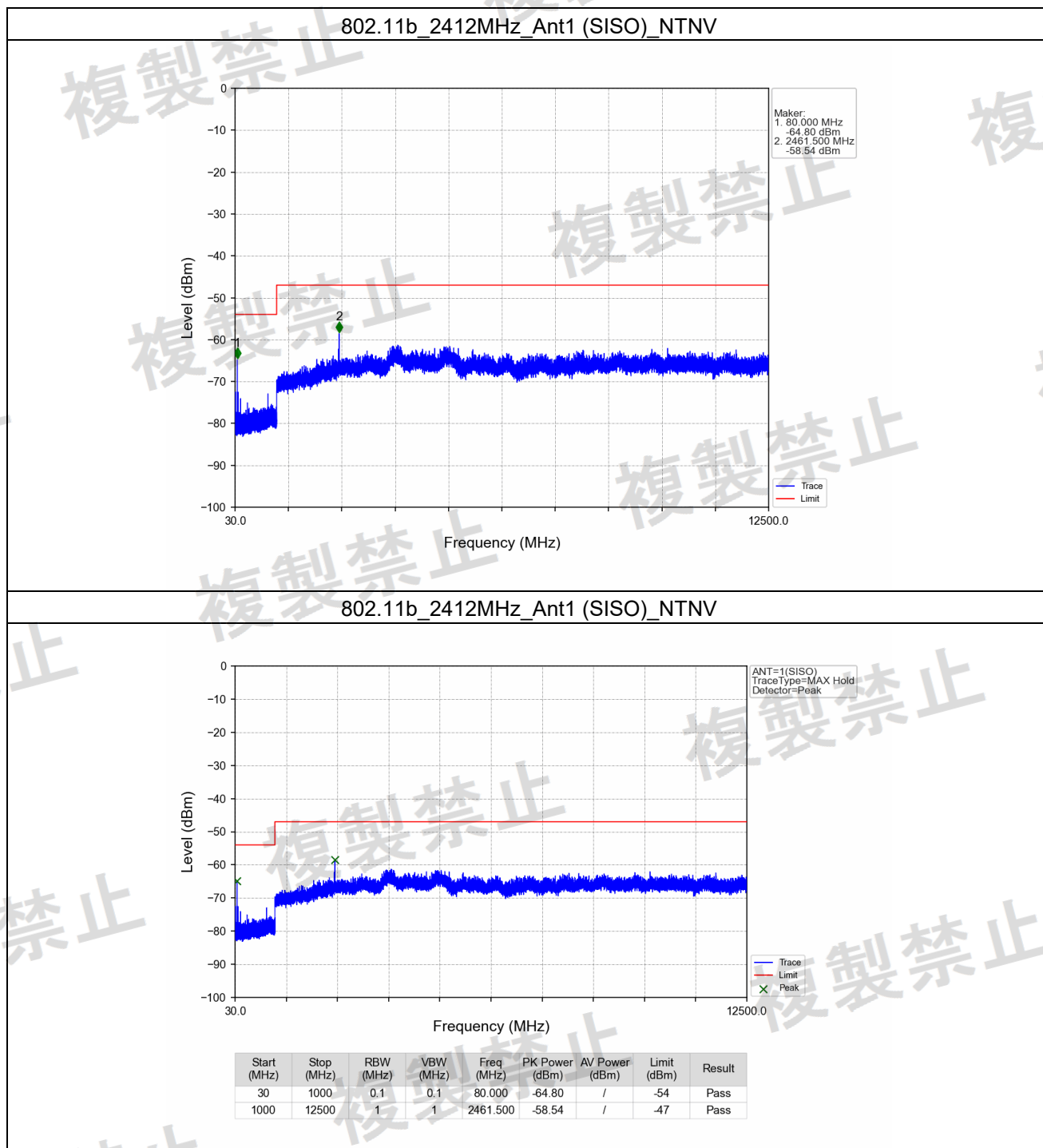
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	1	30	1000	80	-66.36	0.231	/	/	4	Pass
				1000	12500	2468.5	-58.40	1.445	/	/	20	Pass
		2472	1	30	1000	80	-66.95	0.202	/	/	4	Pass
				1000	12500	1939	-49.23	11.940	-57.43	1.807	20	Pass
802.11g	SISO	2412	1	30	1000	80	-67.42	0.181	/	/	4	Pass
				1000	12500	5000	-60.46	0.899	/	/	20	Pass
		2472	1	30	1000	80	-65.25	0.299	/	/	4	Pass
				1000	12500	3684.5	-59.67	1.079	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	80	-67.65	0.172	/	/	4	Pass
				1000	12500	1925.5	-51.79	6.622	-76.90	0.020	20	Pass
		2472	1	30	1000	80	-65.72	0.268	/	/	4	Pass
				1000	12500	2423.5	-58.50	1.413	/	/	20	Pass

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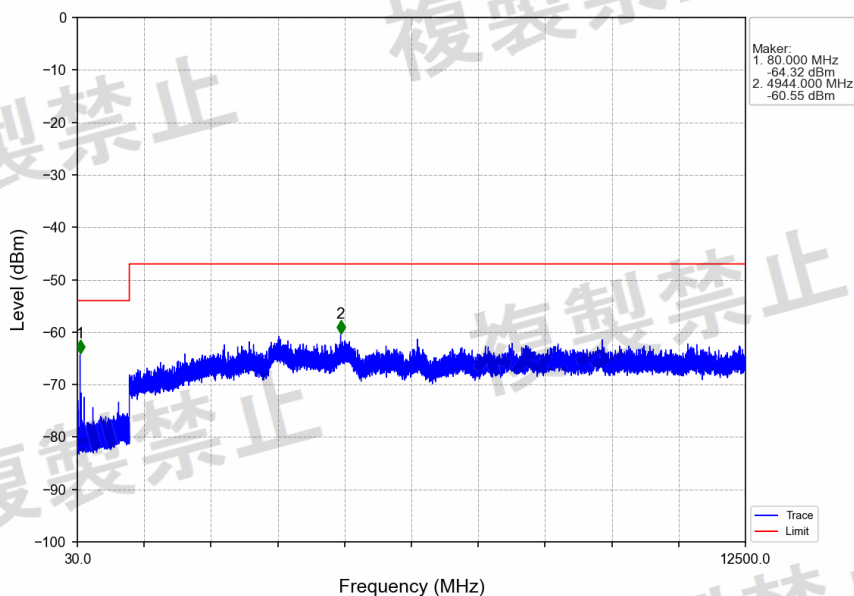
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5.2 Test Graph

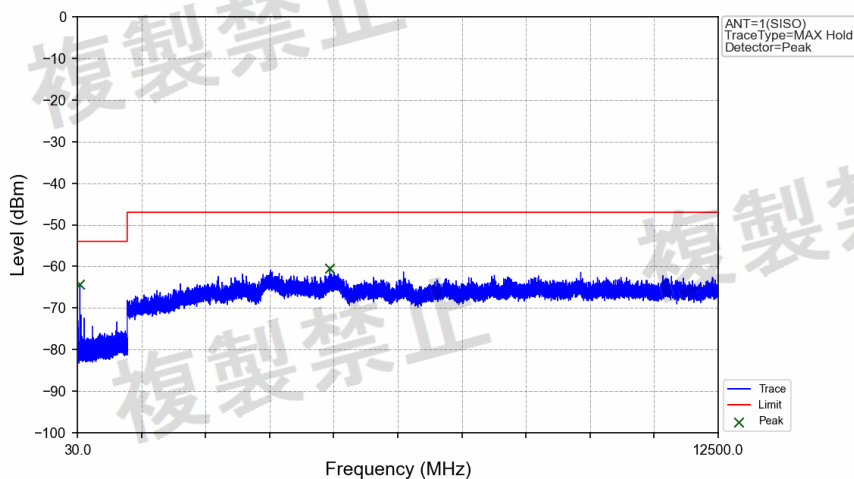
5.2.1 RxSe_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

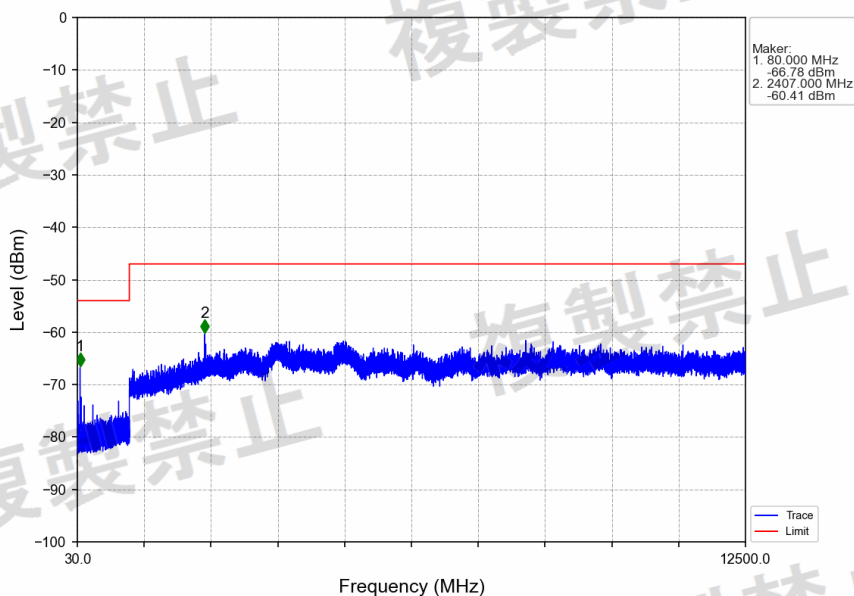


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-64.32	/	-54	Pass
1000	12500	1	1	4944.000	-60.55	/	-47	Pass

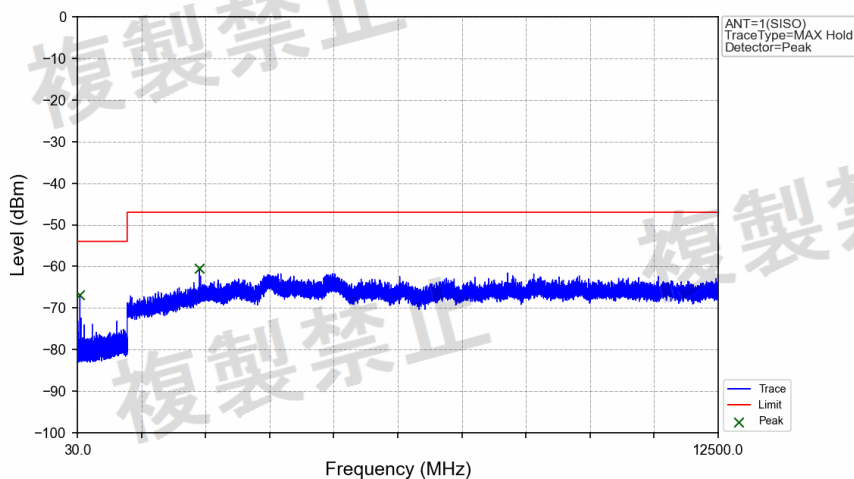
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

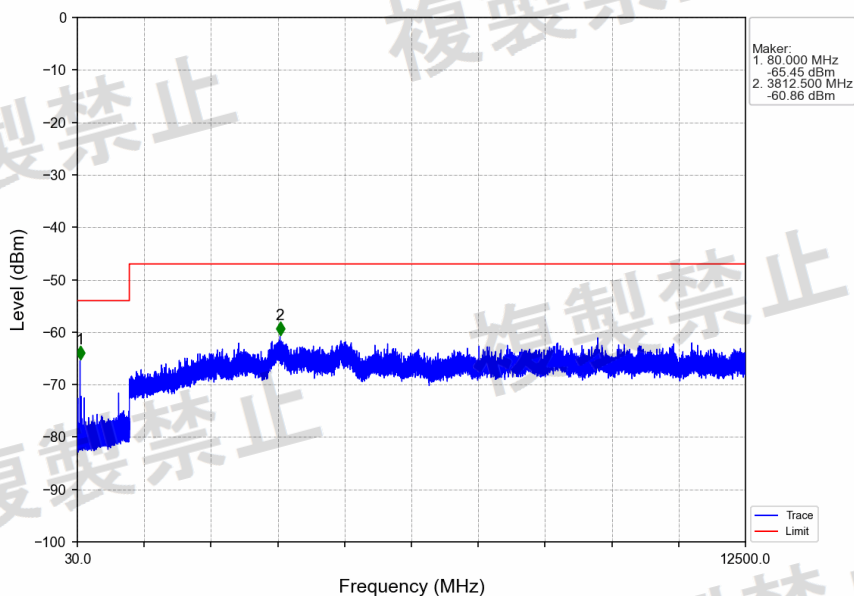


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-66.78	/	-54	Pass
1000	12500	1	1	2407.000	-60.41	/	-47	Pass

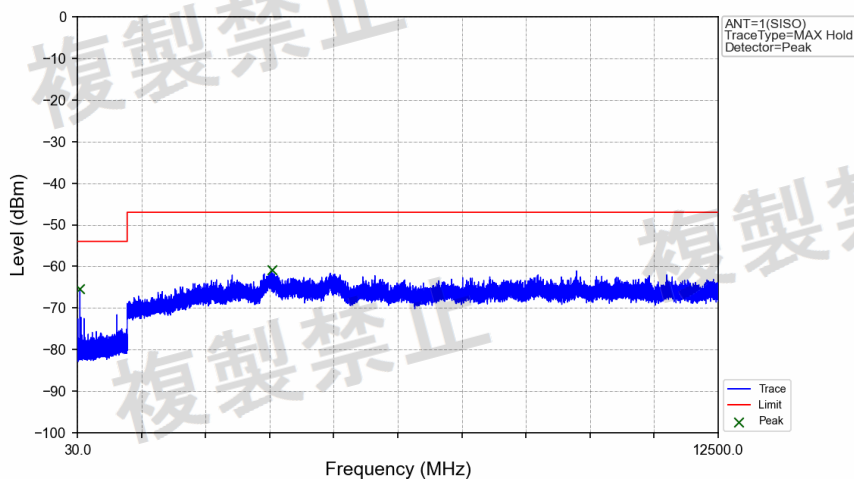
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

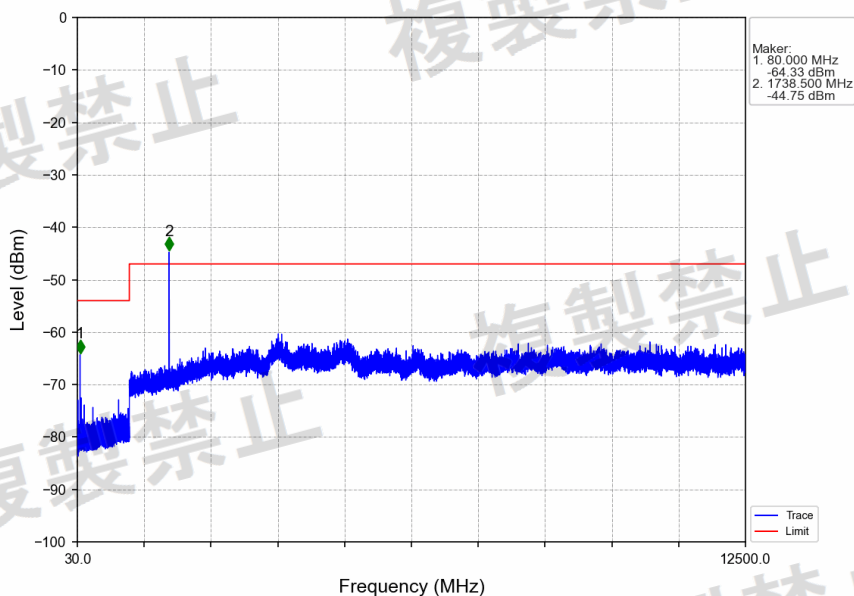


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-65.45	/	-54	Pass
1000	12500	1	1	3812.500	-60.86	/	-47	Pass

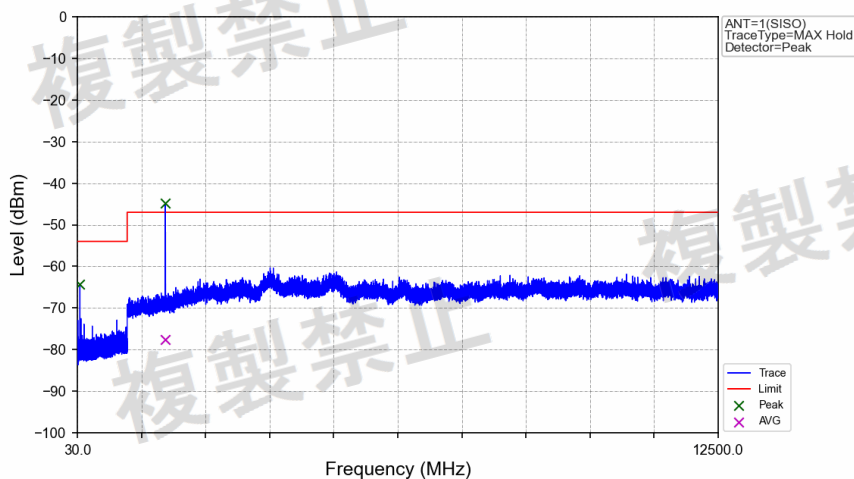
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

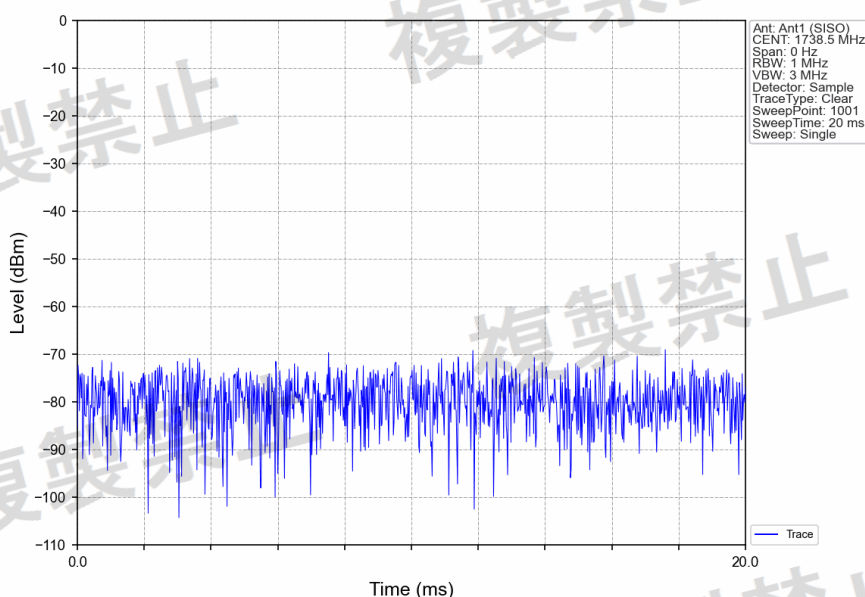


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-64.33	/	-54	Pass
1000	12500	1	1	1738.500	-44.75	-77.62	-47	Pass

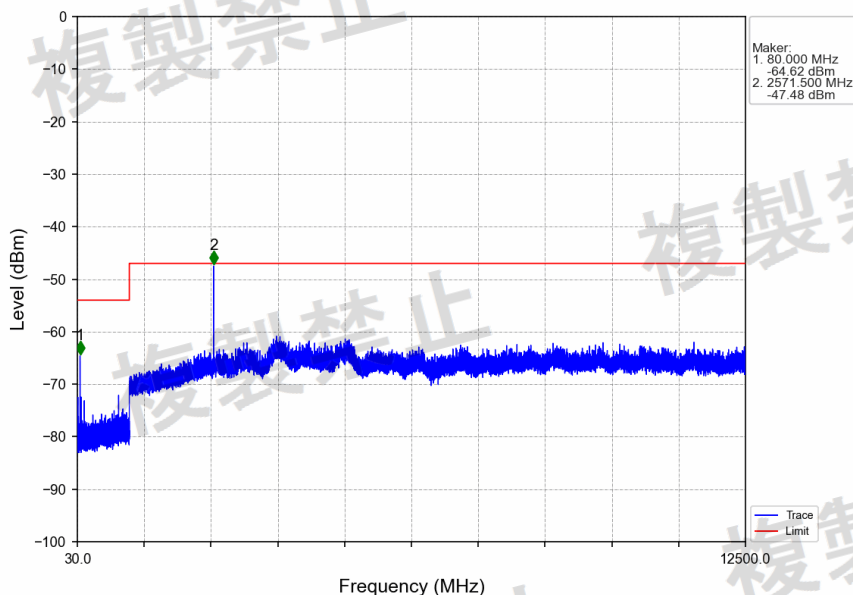
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



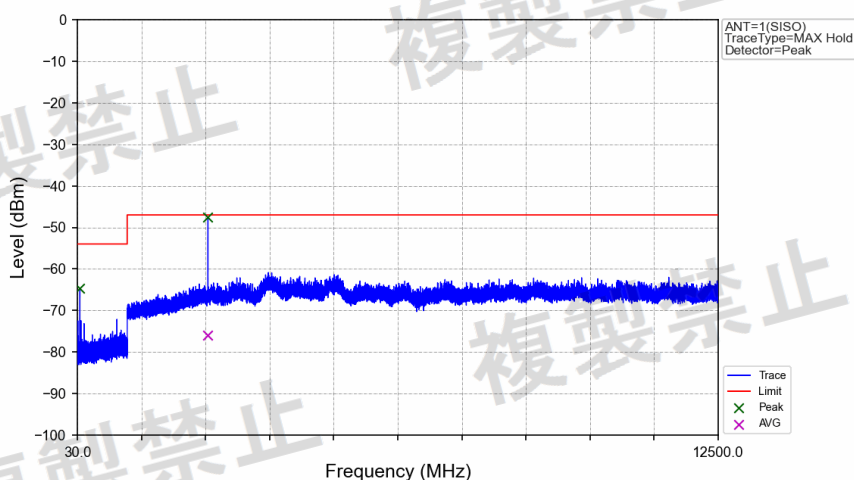
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



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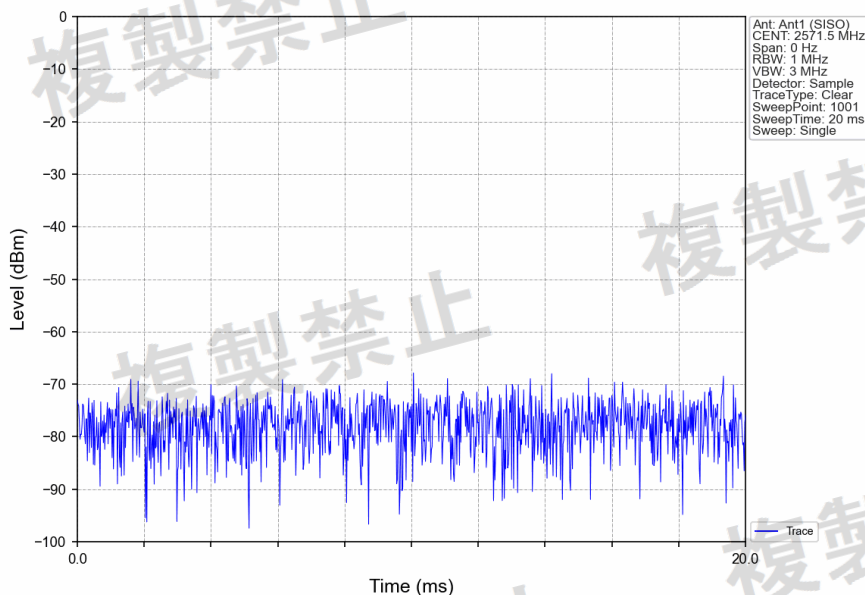
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



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	80.000	-64.62	/	-54	Pass
1000	12500	1	1	2571.500	-47.48	-76.01	-47	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

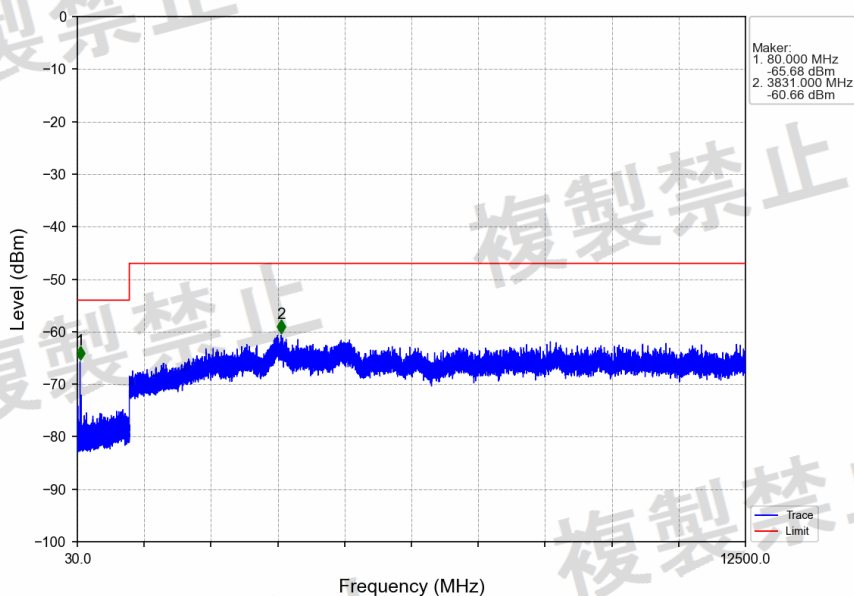


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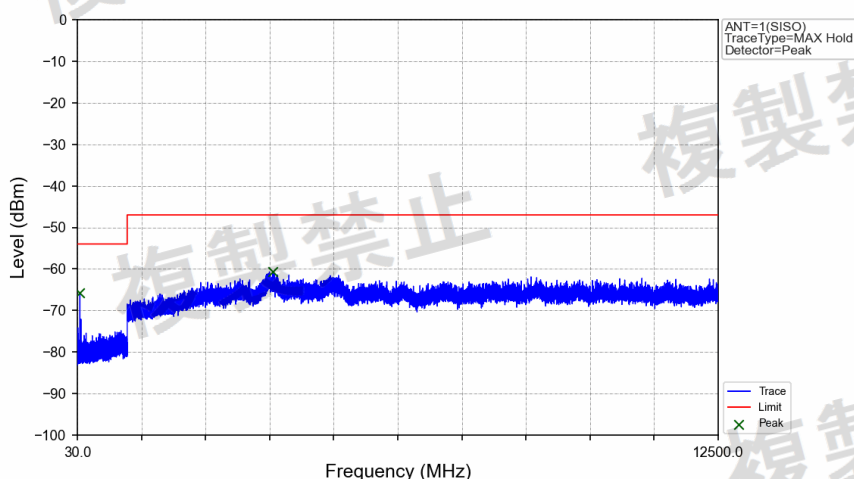
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5.2.2 RxSe_NTLV

802.11b_2412MHz_Ant1 (SISO)_NTLV



802.11b_2412MHz_Ant1 (SISO)_NTLV

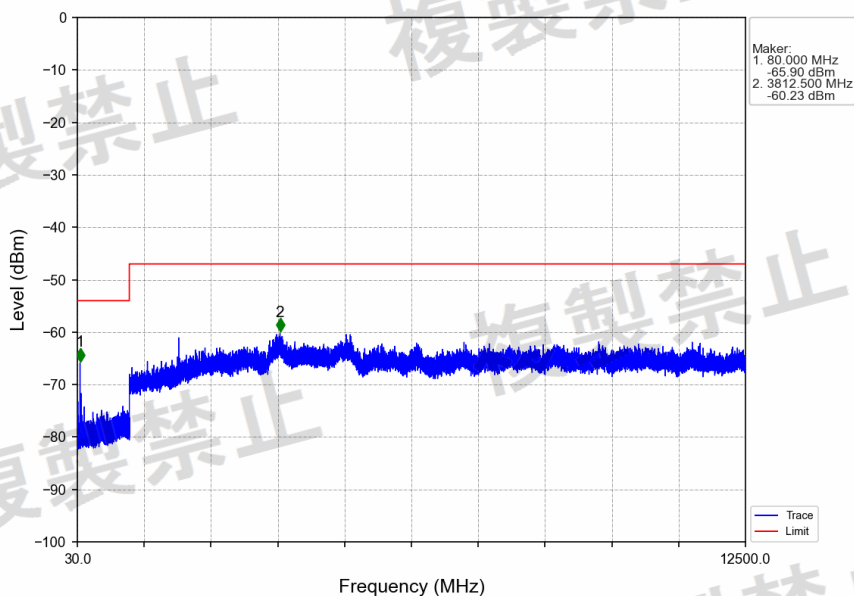


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-65.68	/	-54	Pass
1000	12500	1	1	3831.000	-60.66	/	-47	Pass

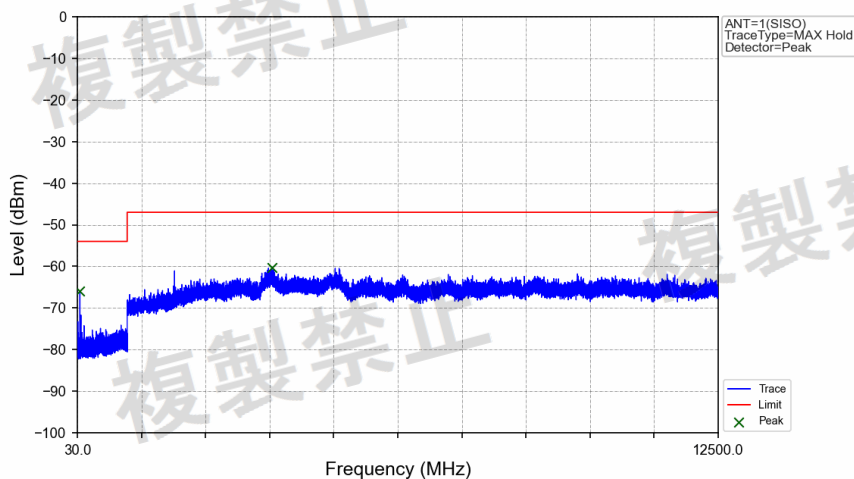
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802.11b_2472MHz_Ant1 (SISO)_NTLV



802.11b_2472MHz_Ant1 (SISO)_NTLV

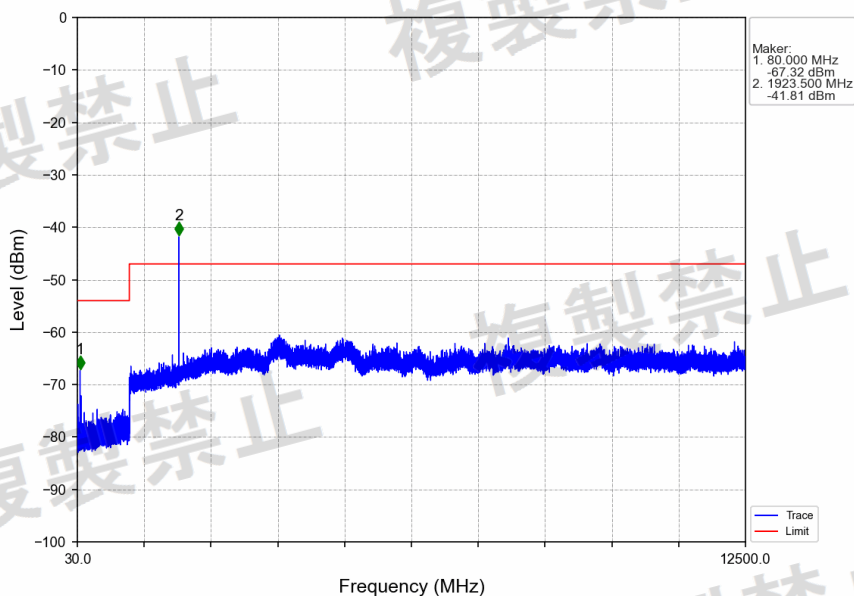


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-65.90	/	-54	Pass
1000	12500	1	1	3812.500	-60.23	/	-47	Pass

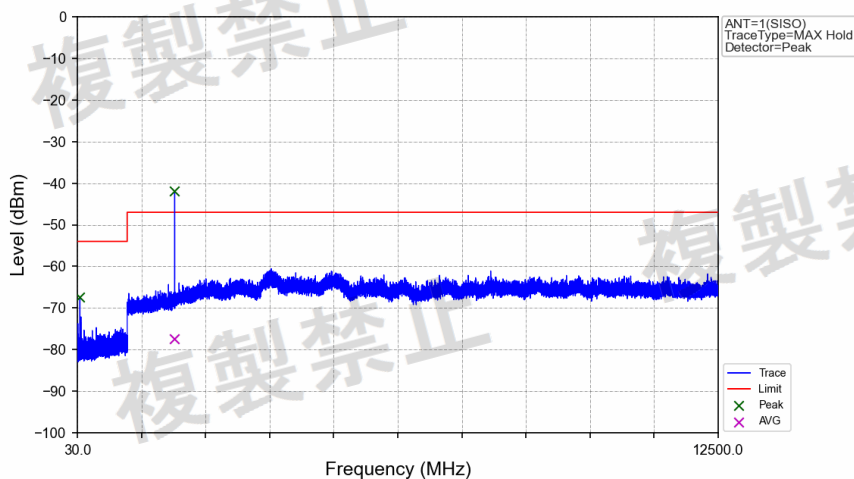
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802.11g_2412MHz_Ant1 (SISO)_NTLV



802.11g_2412MHz_Ant1 (SISO)_NTLV

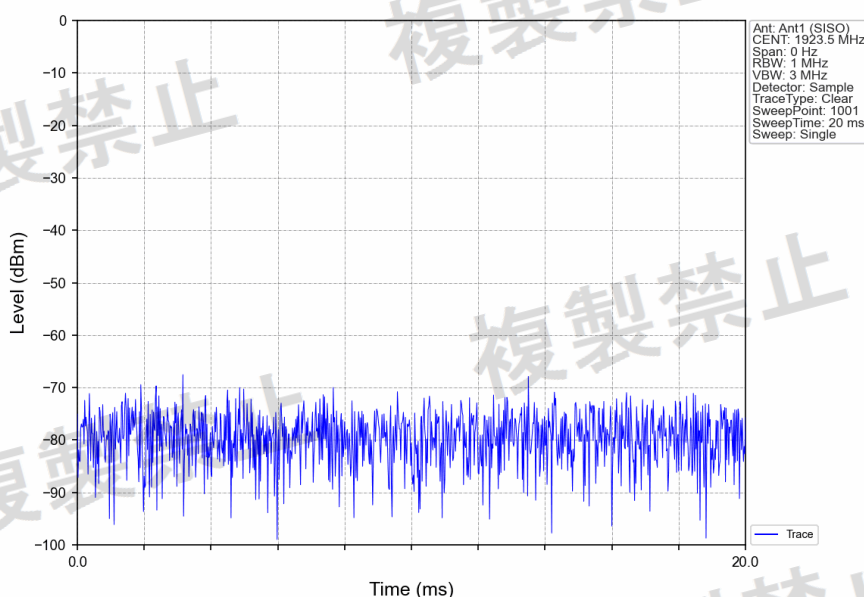


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-67.32	/	-54	Pass
1000	12500	1	1	1923.500	-41.81	-77.40	-47	Pass

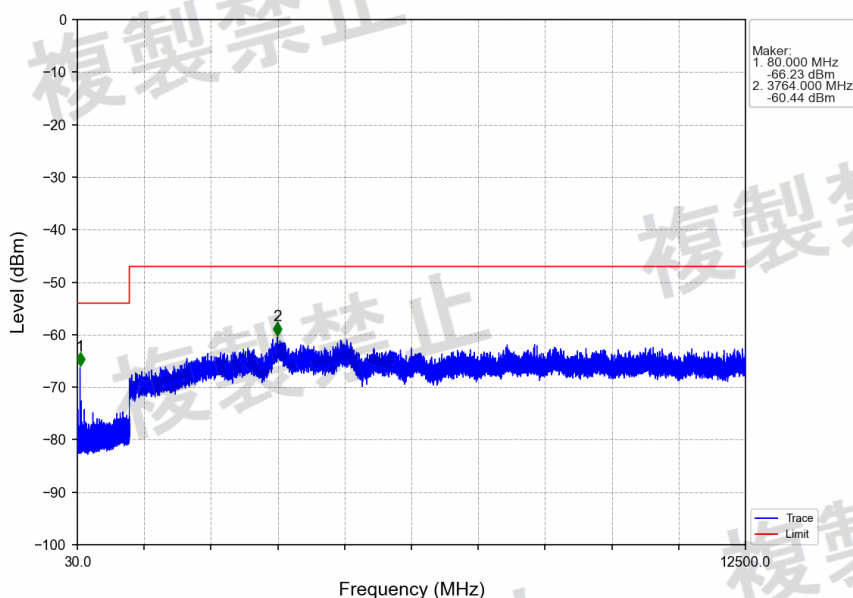
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802.11g_2412MHz_Ant1 (SISO)_NTLV



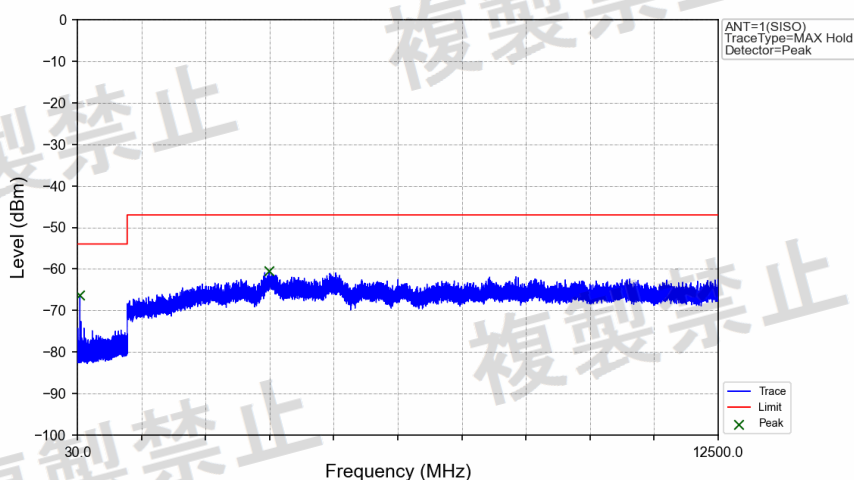
802.11g_2472MHz_Ant1 (SISO)_NTLV



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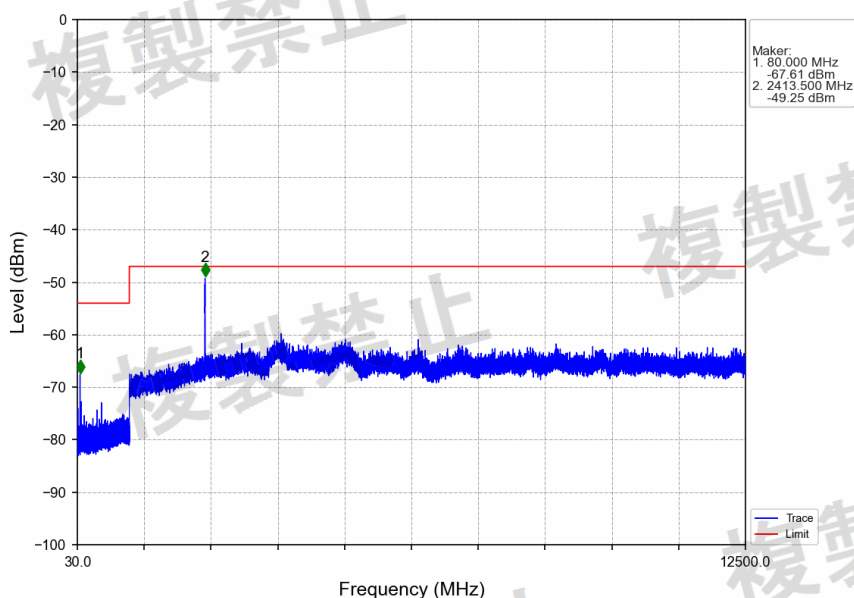
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802.11g_2472MHz_Ant1 (SISO)_NTLV



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	80.000	-66.23	/	-54	Pass
1000	12500	1	1	3764.000	-60.44	/	-47	Pass

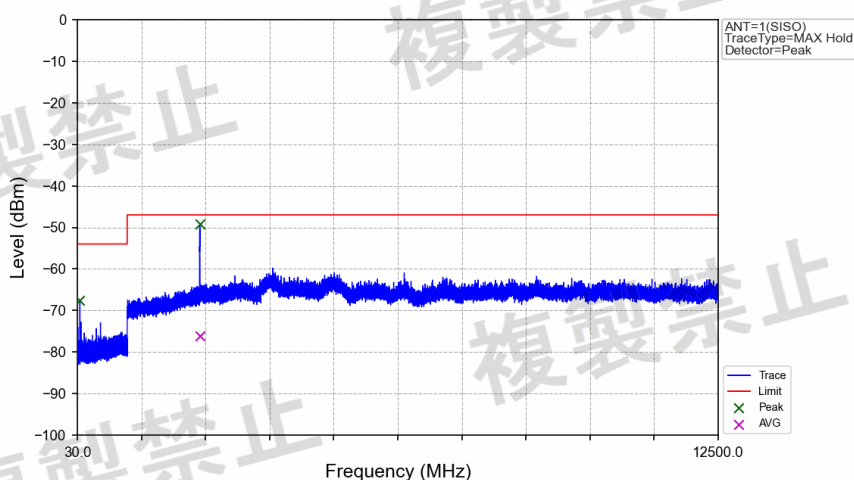
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



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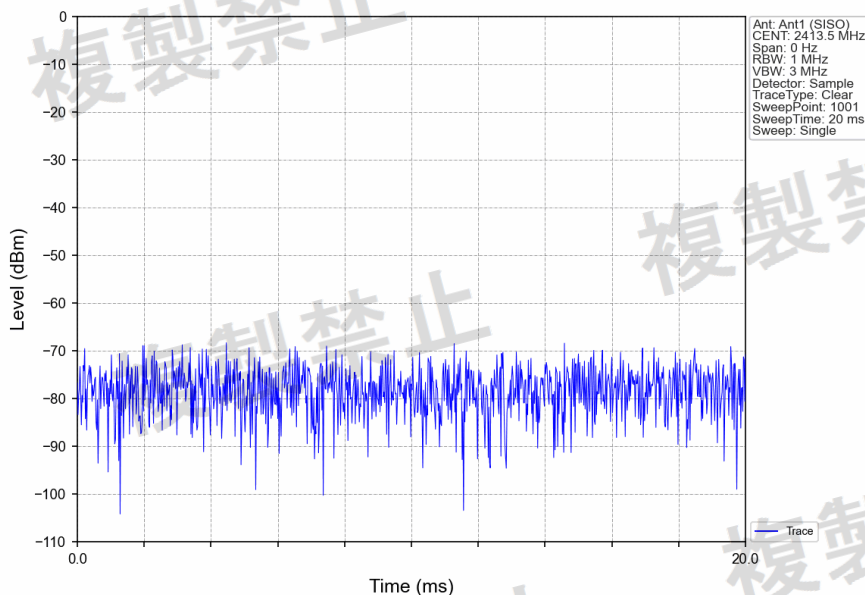
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



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	80.000	-67.61	/	-54	Pass
1000	12500	1	1	2413.500	-49.25	-76.18	-47	Pass

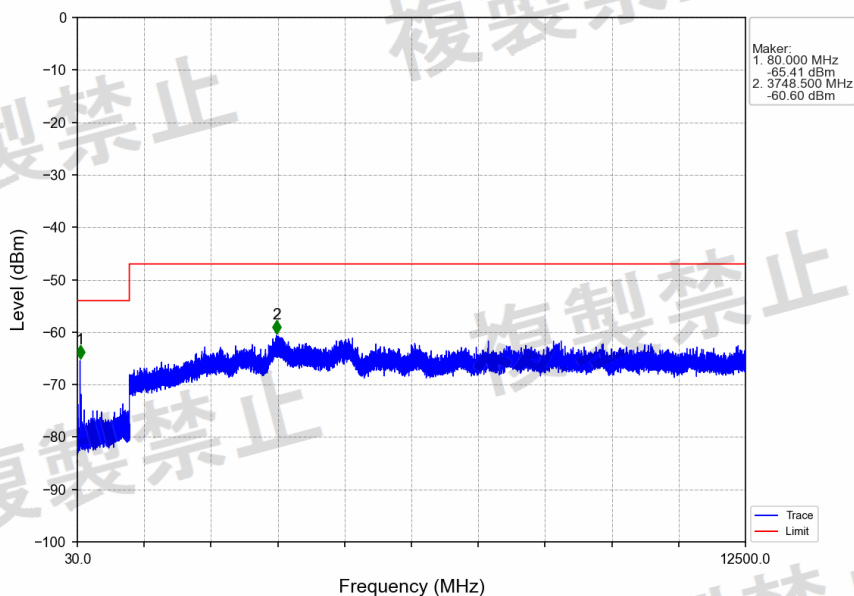
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV



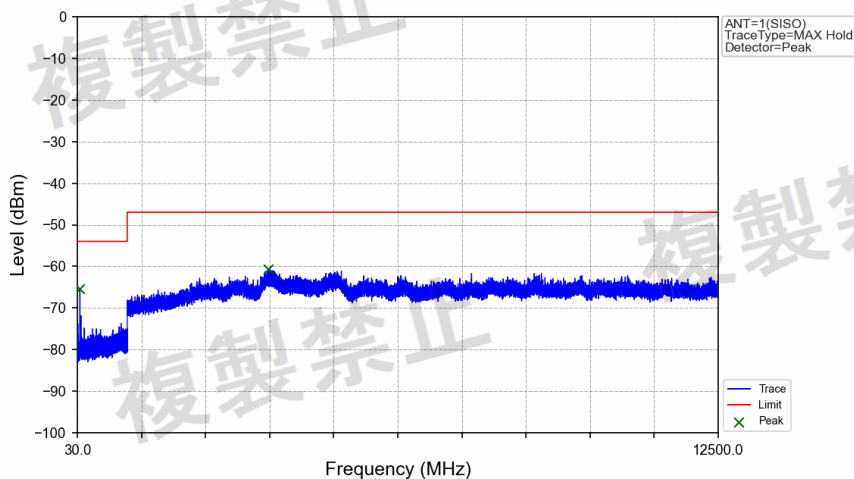
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV



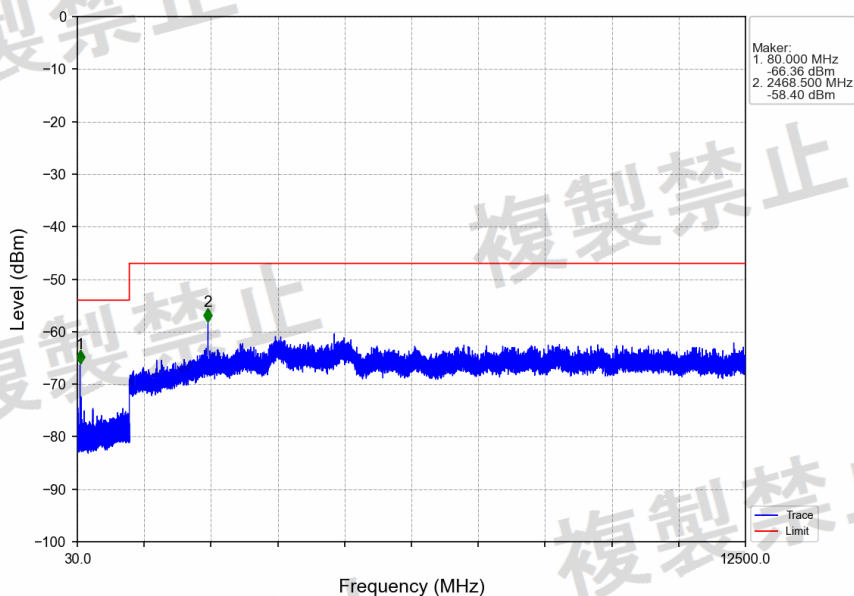
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-65.41	/	-54	Pass
1000	12500	1	1	3748.500	-60.60	/	-47	Pass

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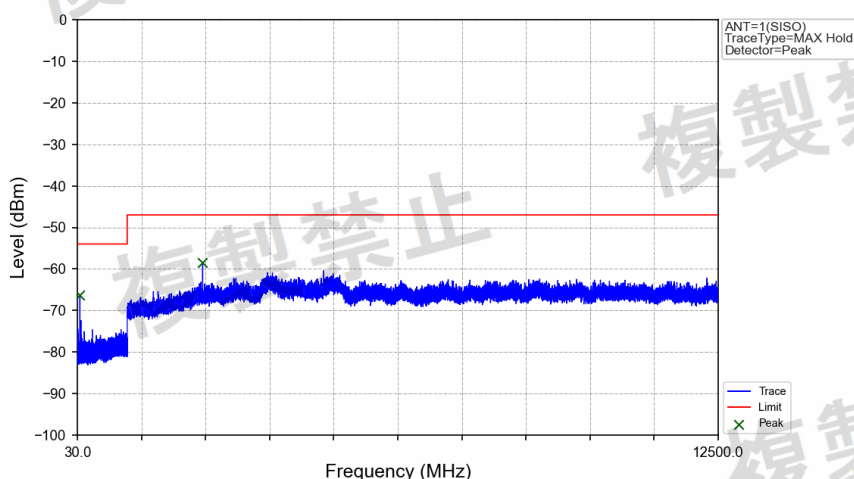
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5.2.3 RxSe_NTHV

802.11b_2412MHz_Ant1 (SISO)_NTHV



802.11b_2412MHz_Ant1 (SISO)_NTHV

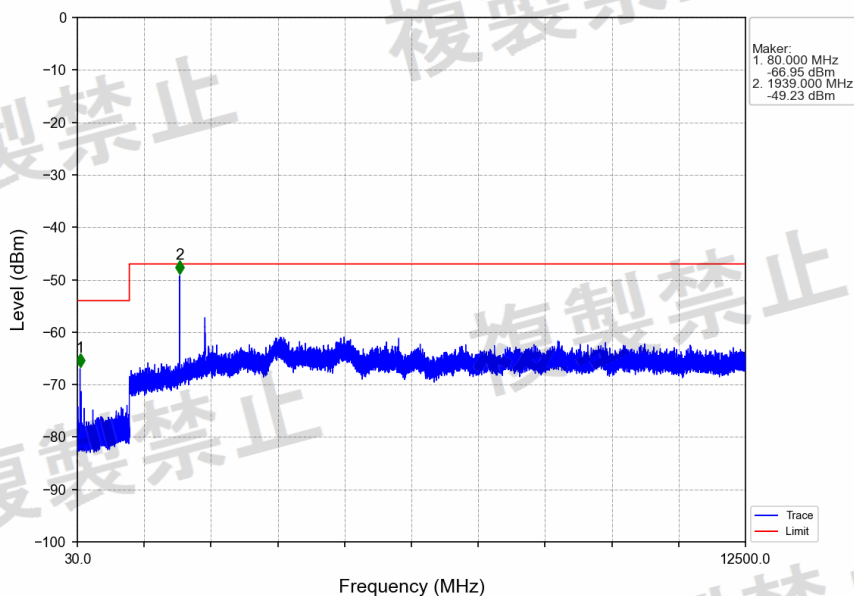


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-66.36	/	-54	Pass
1000	12500	1	1	2468.500	-58.40	/	-47	Pass

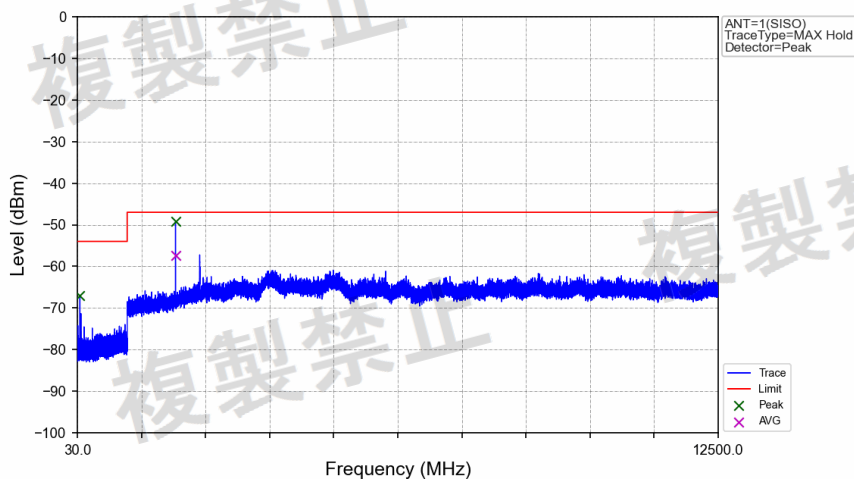
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802.11b_2472MHz_Ant1 (SISO)_NTHV



802.11b_2472MHz_Ant1 (SISO)_NTHV

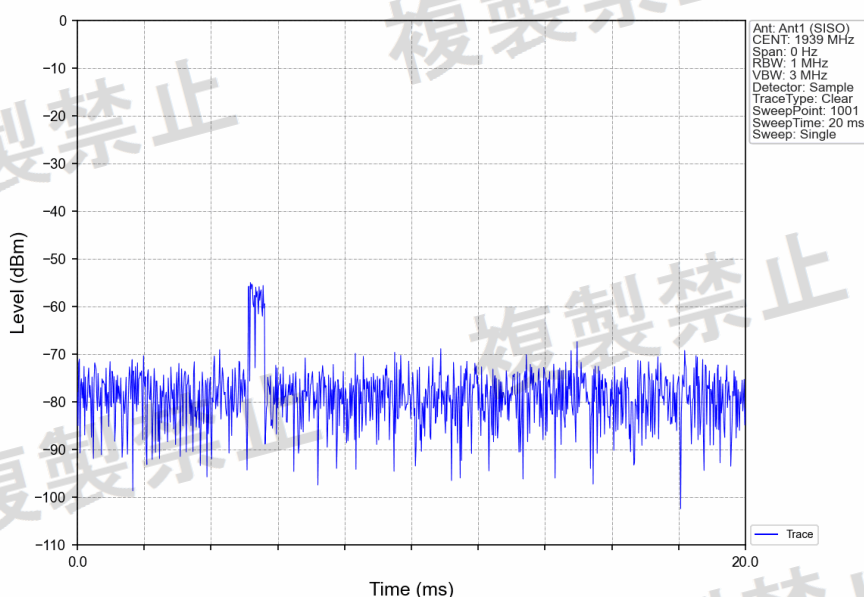


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	80.000	-66.95	/	-54	Pass
1000	12500	1	1	1939.000	-49.23	-57.43	-47	Pass

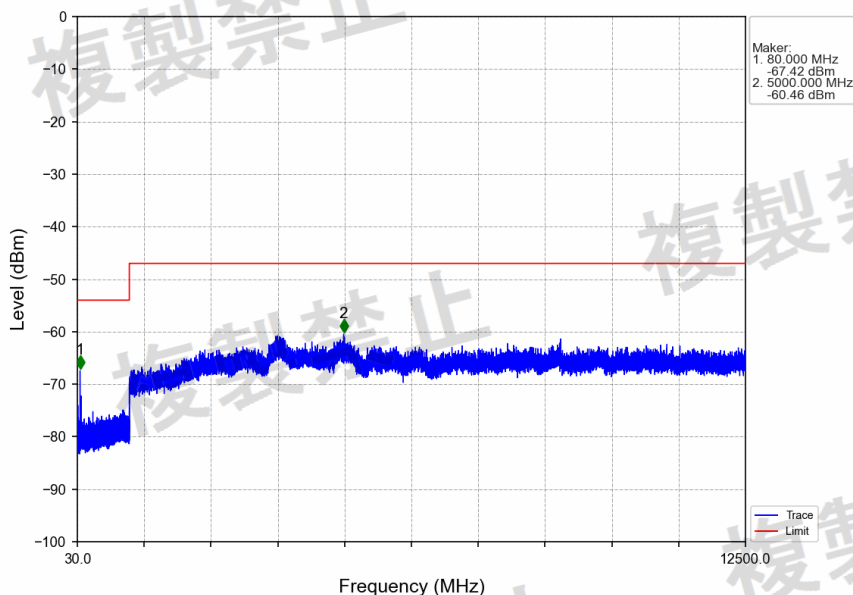
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802.11b_2472MHz_Ant1 (SISO)_NTHV



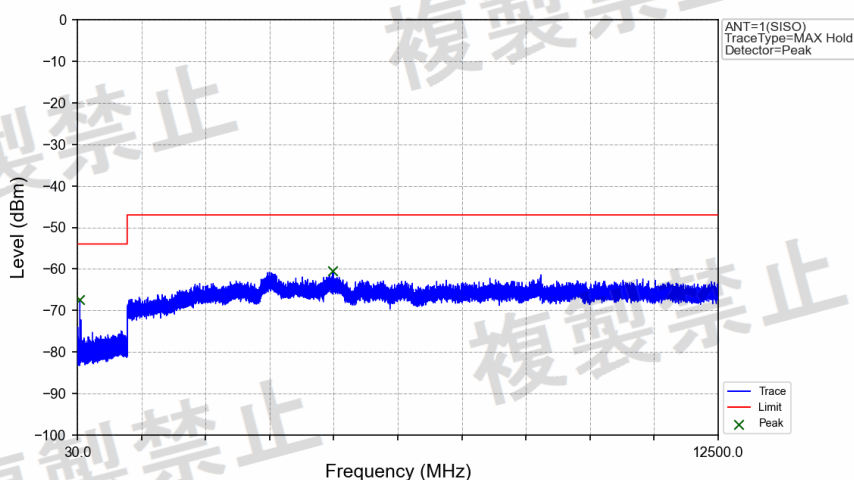
802.11g_2412MHz_Ant1 (SISO)_NTHV



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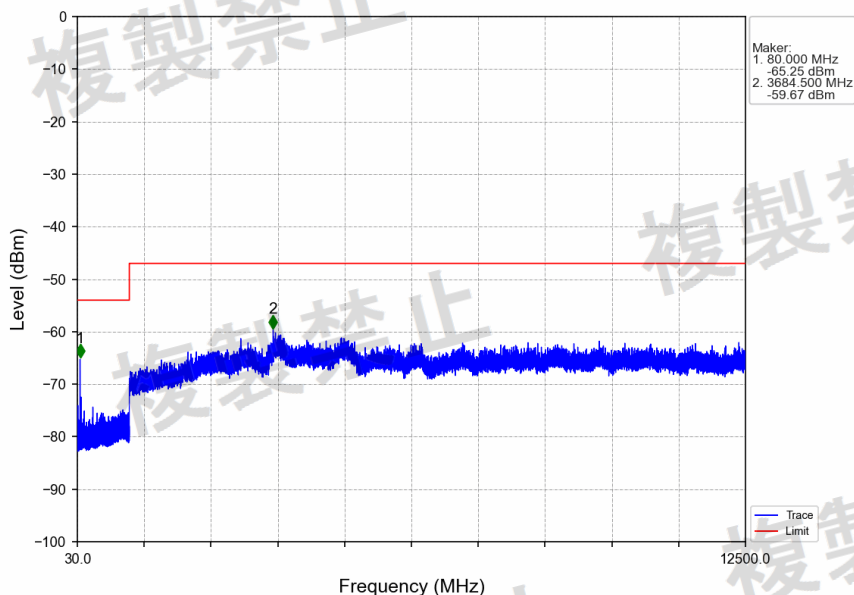
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802.11g_2412MHz_Ant1 (SISO)_NTHV



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	80.000	-67.42	/	-54	Pass
1000	12500	1	1	5000.000	-60.46	/	-47	Pass

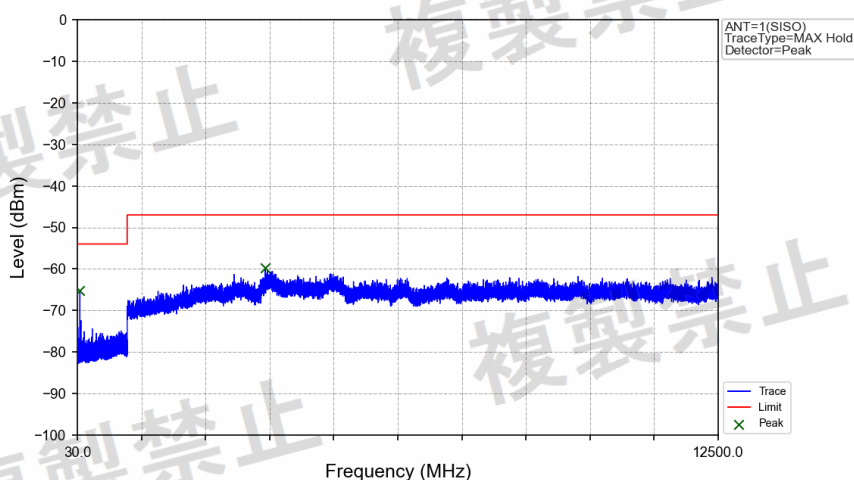
802.11g_2472MHz_Ant1 (SISO)_NTHV



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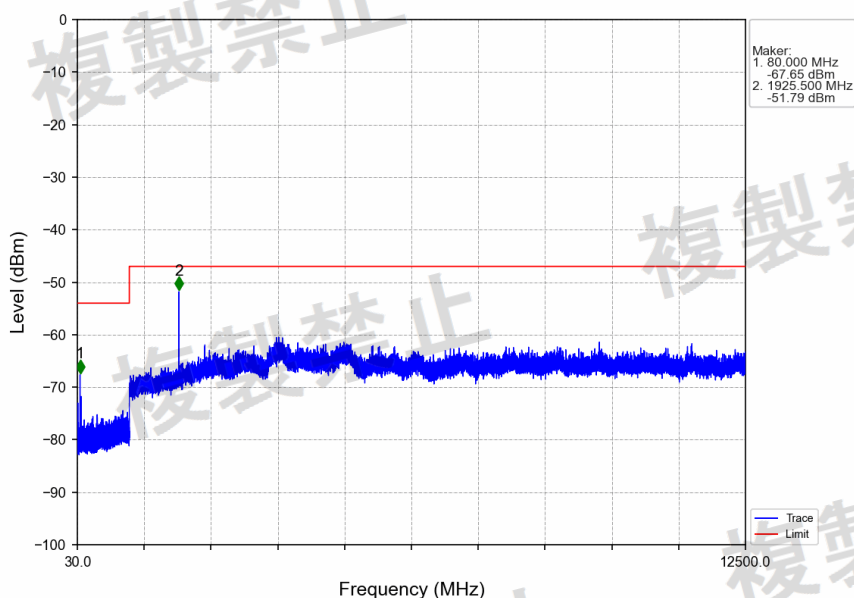
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802.11g_2472MHz_Ant1 (SISO)_NTHV



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	80.000	-65.25	/	-54	Pass
1000	12500	1	1	3684.500	-59.67	/	-47	Pass

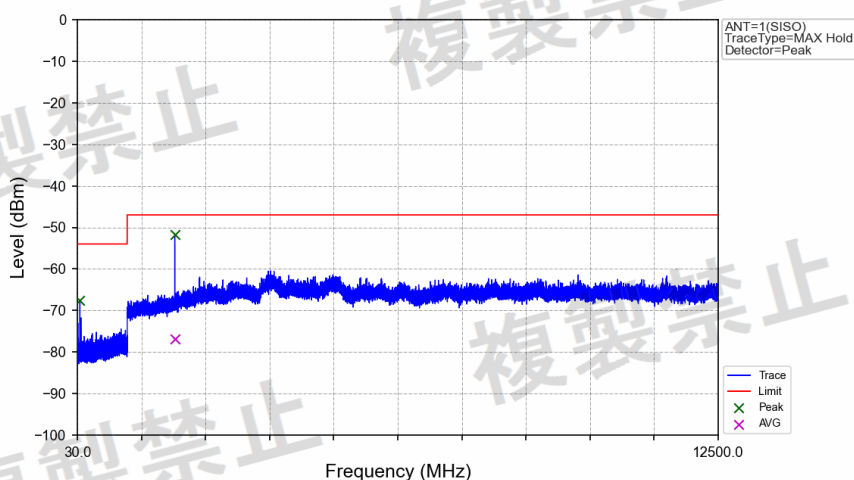
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



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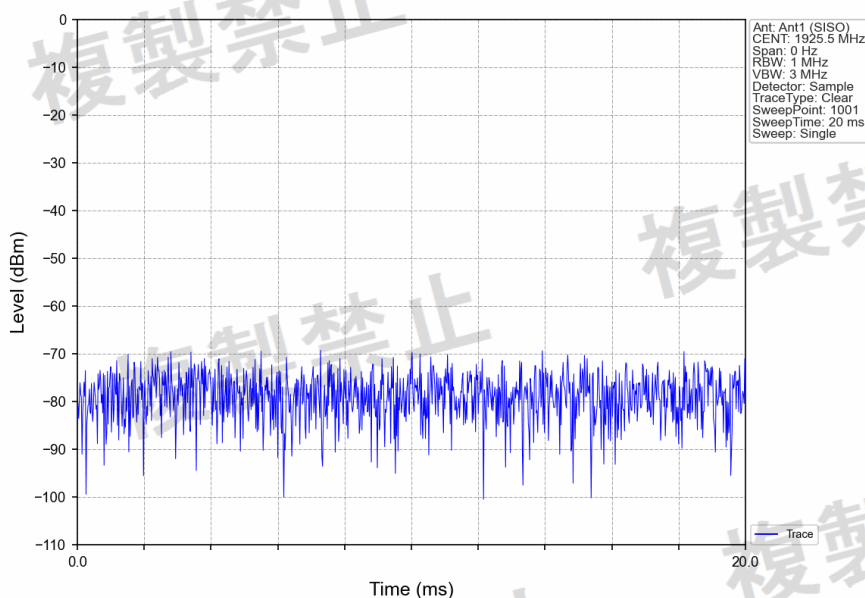
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



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	80.000	-67.65	/	-54	Pass
1000	12500	1	1	1925.500	-51.79	-76.90	-47	Pass

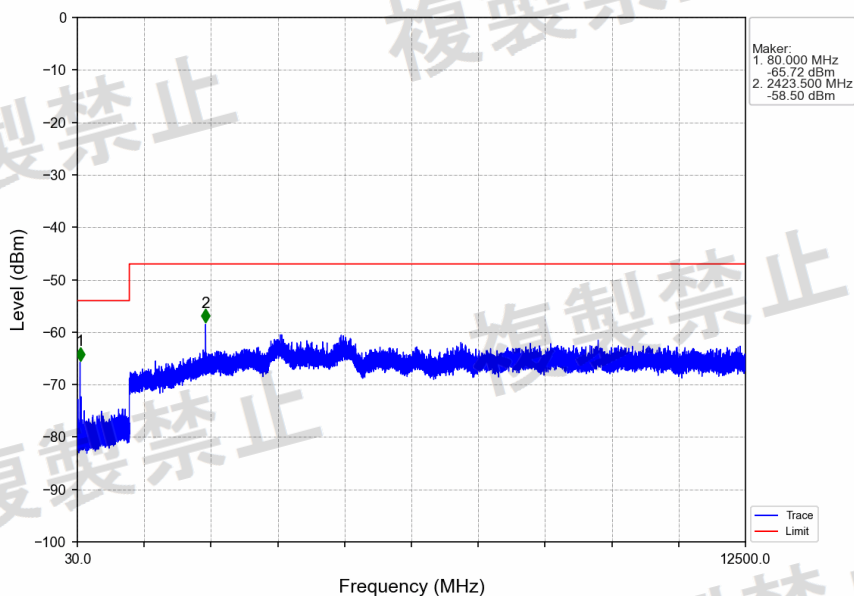
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTHV



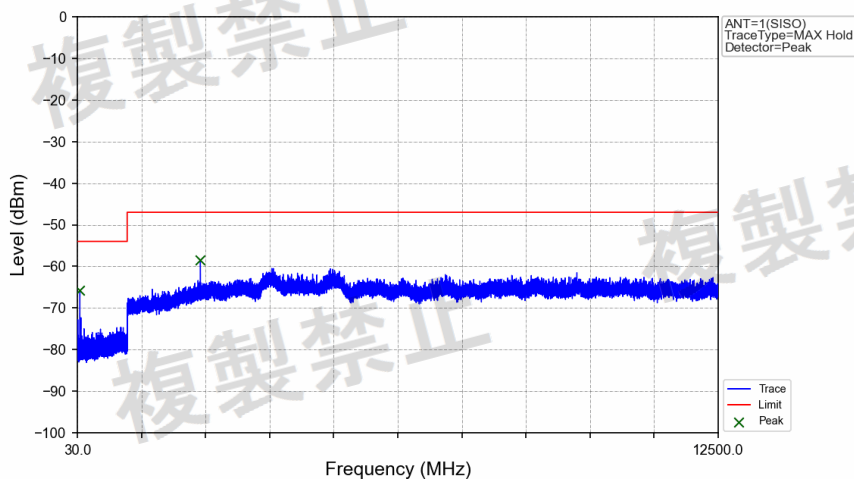
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTHV



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	80.000	-65.72	/	-54	Pass
1000	12500	1	1	2423.500	-58.50	/	-47	Pass

- End of the Report -

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