

TEST REPORT

Application No.: GZCR2501000139HS
Applicant: Techtronic Product Development Limited
Address of Applicant: 28/F&29/F, Tower 2, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, Hong Kong
Manufacturer: Techtronic Product Development Limited
Address of Manufacturer: 28/F&29/F, Tower 2, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, Hong Kong
Factory:
1. Techtronic Industries (Dongguan) Co. Ltd.
2. Techtronic Tools (Vietnam) Company Limited
Address of Factory:
1. 1. No.2 Hujing Road, Houjie Town, Dongguan City 523945, Guangdong Province, China
2. Lot I-14.5, D14 Street, Hi-Tech Park, Tang Nhon Phu B Ward, Thu Duc City, Ho Chi Minh City, Vietnam
Product Name: CABLE CUTTER(for M18 HCC75R tool),
UNDERGROUND CABLE CUTTER WIRELESS REMOTE(for M18 HCC75R remote)
Model No.: M18 HCC75R
Trade Mark: Milwaukee
Standard(s): MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2025-01-16
Date of Test: 2025-02-08 to 2025-03-07
Date of Issue: 2025-03-07

Test Result:**Pass***

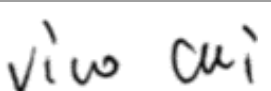
* In the configuration tested, the EUT complied with the standards specified above.



Jerry Chan
Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR250100013901	2025-03-07	Original

Authorized for issue by:		
		
	Michael Huang/Project Engineer	
		
	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
Antenna Power		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spurious emission Intensity		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Limit of secondary radiated emissions		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Note:

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

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



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 18V battery pack
Test Voltage: DC 18V
Controller power: DC 6V = 4 x 1.5V "AA" batteries
Highest operating frequency: 2.4GHz
Cable(s): N/A
Operation Frequency: 2402MHz to 2480MHz
Modulation Type: GFSK
Channel Spacing: 2MHz
Number of Channels: 40
Antenna gain: 1 dBi (For controller)
Antenna gain: 1 dBi (For host machine)

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 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	25	DC 18V
NTHV	25	DC 19.9V
NTLV	25	DC 16.3V
Note:		
NV: Normal Voltage LV: Low Extreme Test Voltage HV: High Extreme Test Voltage		
NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	APPLE	iPhone 12 mini	F71DP3NG0GQY
DC 18V 12.0Ah battery pack supplied by the client.	Techtronic Industries GmbH	M18 FB12	/
Note Book PC	LENOVO	Lenovo Xiaoxinchao 5000	PF0TNMG8

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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25 \text{ E-8}$
Occupied Bandwidth(99%)	$\pm 0.274\%$
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.	

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

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4.6 Test Facility

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



5 Equipment List

RF conducted test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Cal. Site	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2024-06-17	2025-06-16	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023 R	EMC2257	2024-08-23	2025-08-22	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. Site	Cal. Law
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12	CEPREI	Article 24-2, Paragraph 4 of the Radio Act



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.1.2 Conclusion

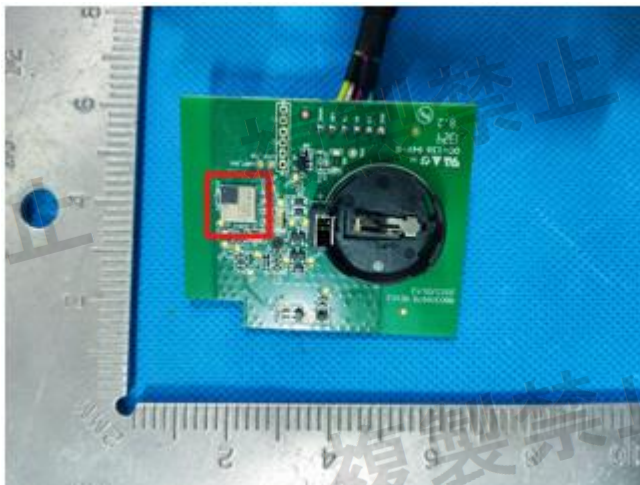
Standard requirement: Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details: The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna gain(for controller) is 1 dBi and antenna gain(for host machine) is 1 dBi.

(for controller)



(for host machine)



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

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6.2 Interference prevention capability

6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

Limit:

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

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

6.2.2 Conclusion

Standard requirement:

- 1) Measurement system diagram as shown above and test equipment keep transmitting identification code.
- 2) Condition of measuring instrument(1) Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
- 3) Condition of test equipment The mode of normal use.
- 4) Measuring operation procedure(1) When test equipment has the function to transmit identification code automatically:
 - A) Transmit the predetermined identification code from test equipment.
 - B) Confirm the transmitted identification code by demodulator.

For controller: 52:FE:69:01:35:FA

52:FE:69:01:35:FA

For host: 67:1B:44:E8:0B:25

67:1B:44:E8:0B:25

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



6.3 RF accessibility

6.3.1 Test Requirement:

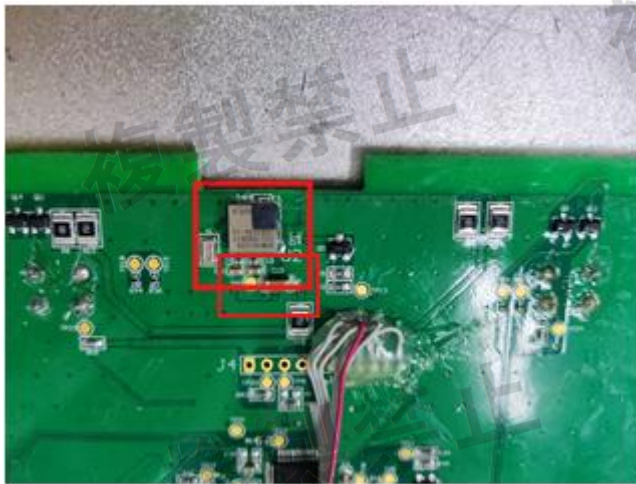
MIC Item 19 of Article 2 Paragraph 1

6.3.2 Conclusion

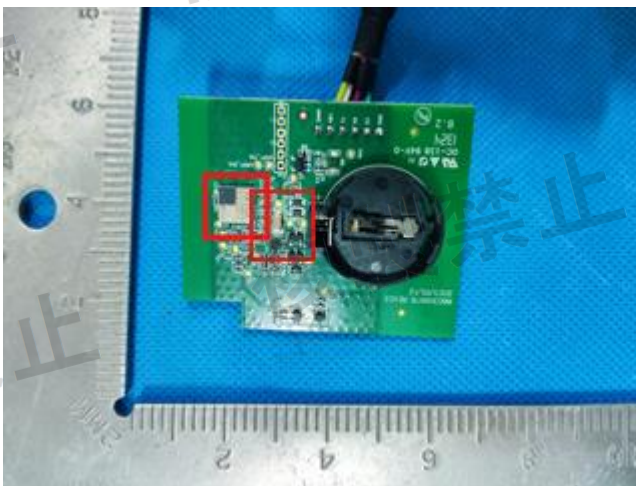
Standard Requirement:

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.

(for controller)



(for host machine)



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: 20.3 °C

Humidity: 42.7 % RH

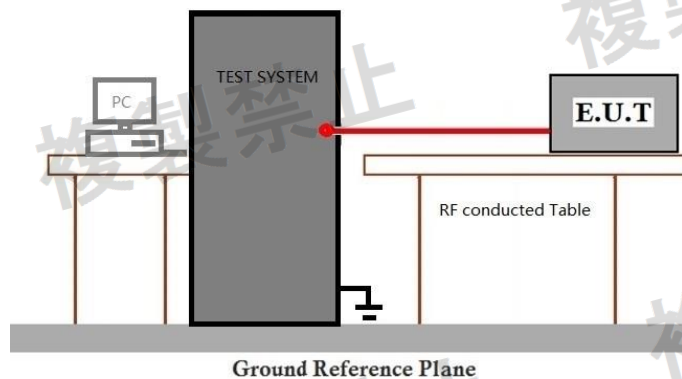
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
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Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
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7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 100 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 10 kHz (Modulation ON),

VBW 10 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

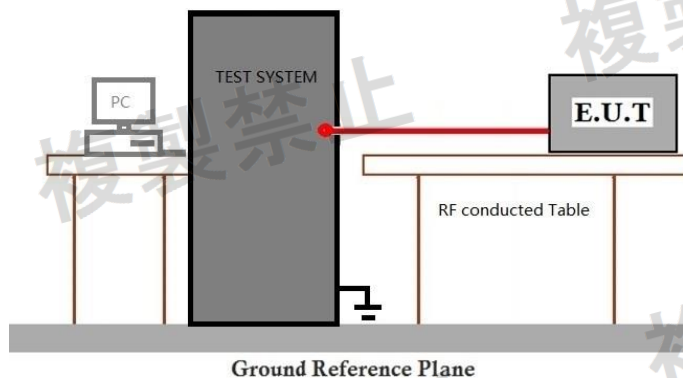
Operating Environment:

Temperature: 20.3 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

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 Antenna Power

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
Limit:	Designated value
	(1) FH, FH+DS, FH+OFDM: 3mW/MHz (used in the range of 2427 - 2470.75 MHz)
	(2) OFDM, DS other than (1) 10mW/MHz
	(3) Other than (1) & (2) 10mW
	(4) OFDM OBW 26 - 38MHz: 5mW/MHz
	Tolerance: ≤20%

7.3.1 E.U.T. Operation

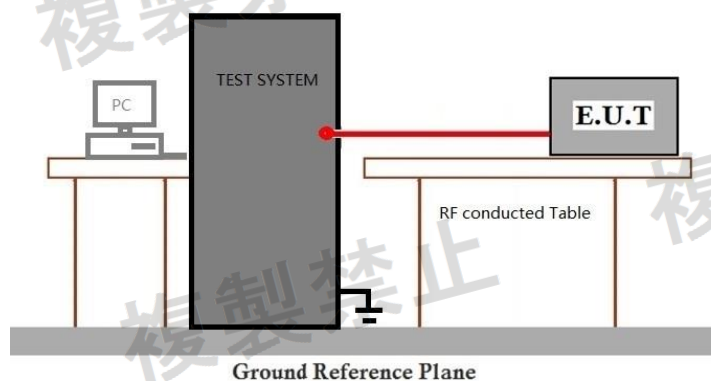
Operating Environment:

Temperature: 20.3 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

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

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 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



7.4 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

7.4.1 E.U.T. Operation

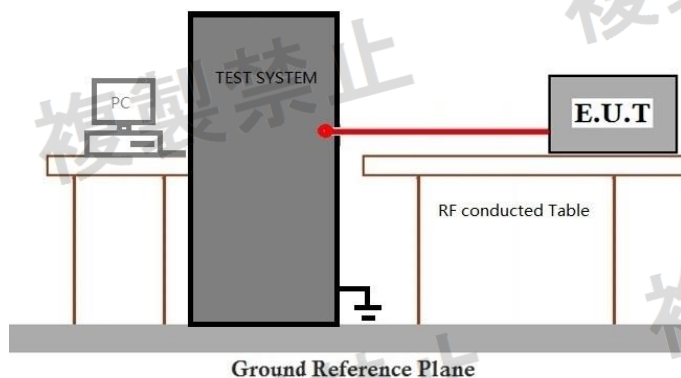
Operating Environment:

Temperature: 20.3 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



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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:

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



7.5 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

7.5.1 E.U.T. Operation

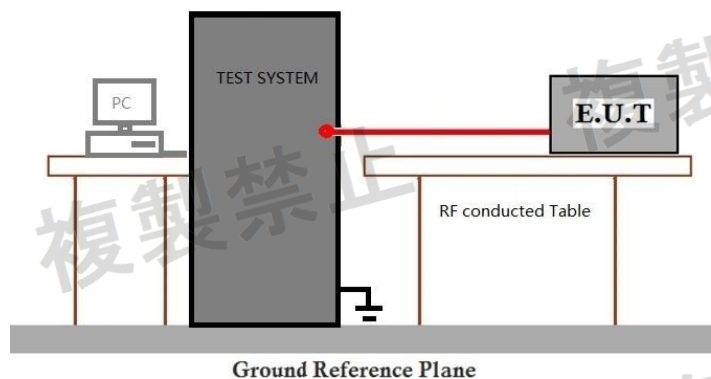
Operating Environment:

Temperature: 20.3 °C Humidity: 42.7 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	01	RX_Keep the EUT in receiving mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

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

3. Spectrum Analyzer conditions:

Step 1

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

Step 2

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

Test setup for Step 1:

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

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

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

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

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

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

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR250100013901



9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for GZCR2501000139HS



10 Appendix

1. Frequency Error (for host machine)

1.1 Test Result

1.1.1 Ant1

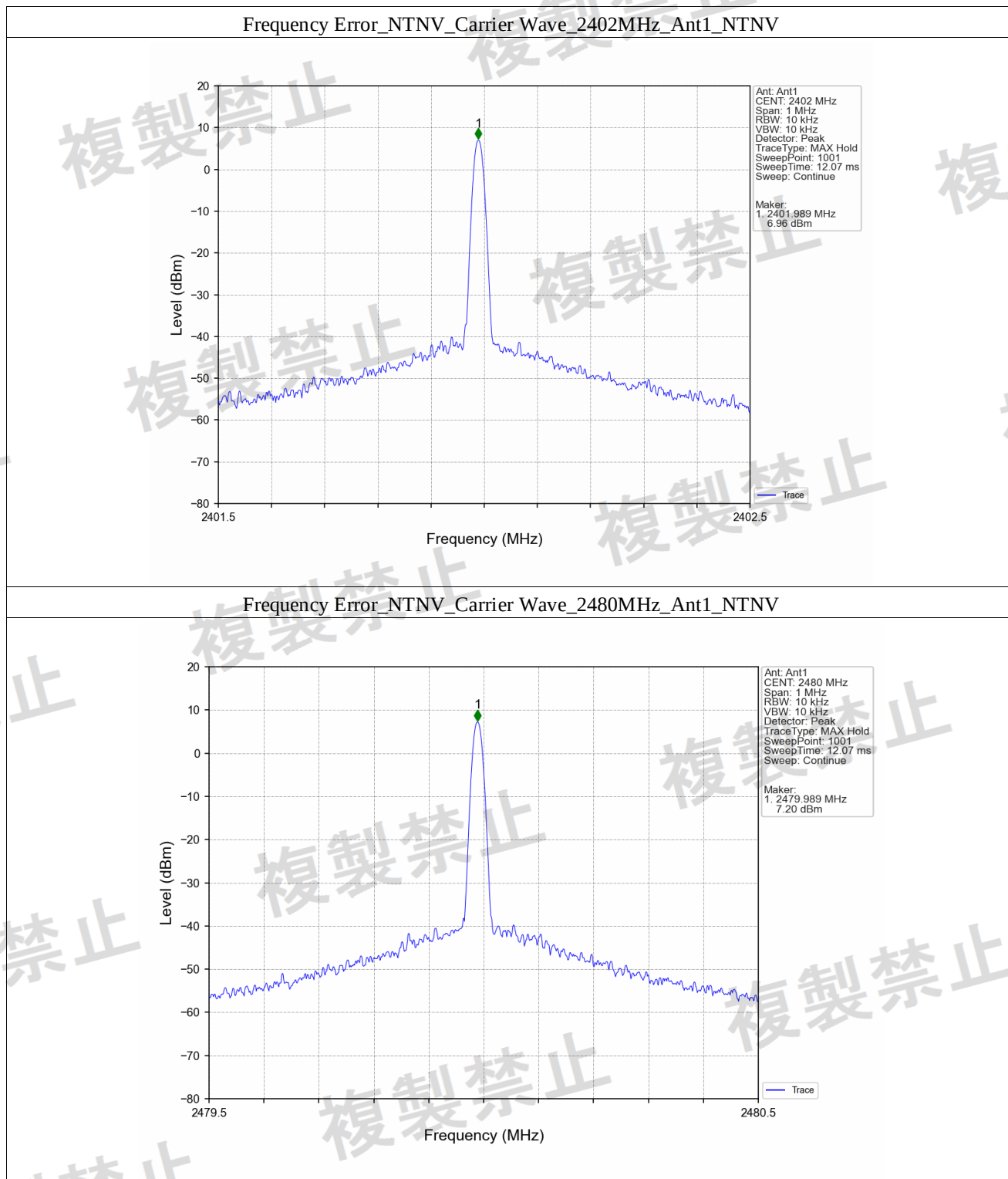
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2401.989	-4.58	-50 to 50	Pass
			2480	2479.989	-4.44	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	2401.989	-4.58	-50 to 50	Pass
			2480	2479.989	-4.44	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	2401.989	-4.58	-50 to 50	Pass
			2480	2479.989	-4.44	-50 to 50	Pass

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1.2 Test Graph

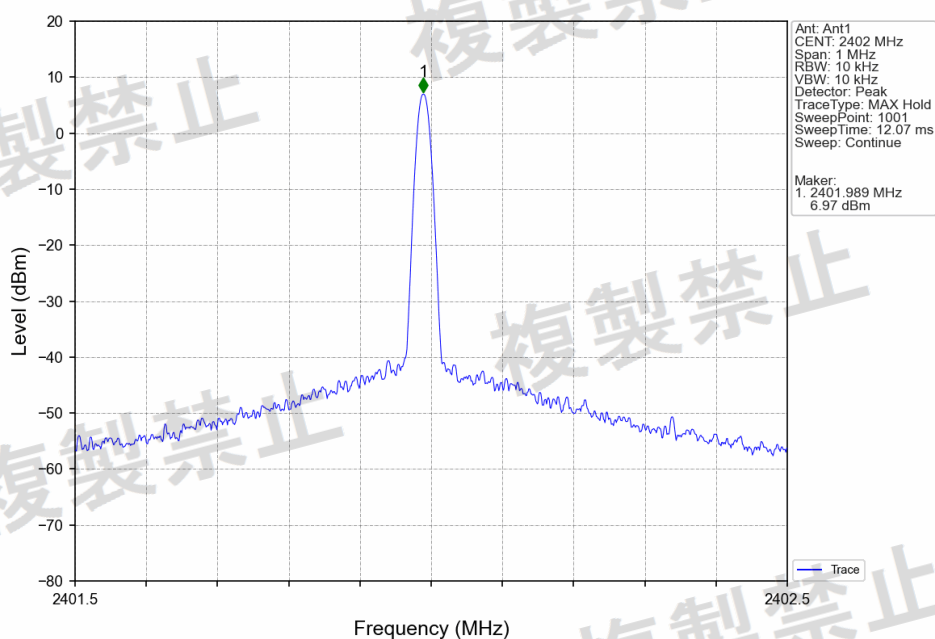
1.2.1 Ant1



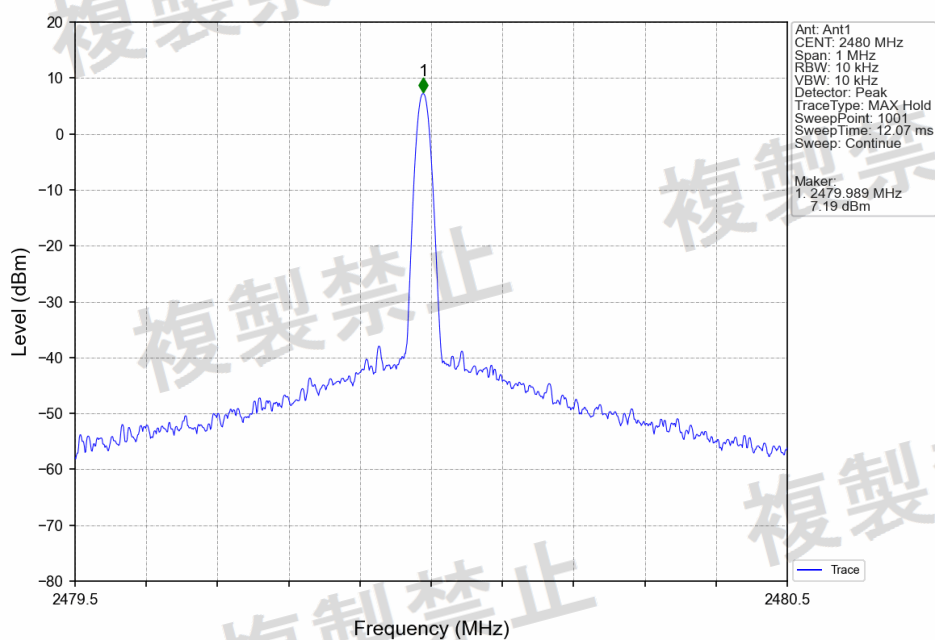
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Frequency Error_NTLV_Carrier Wave_2402MHz_Ant1_NTLV



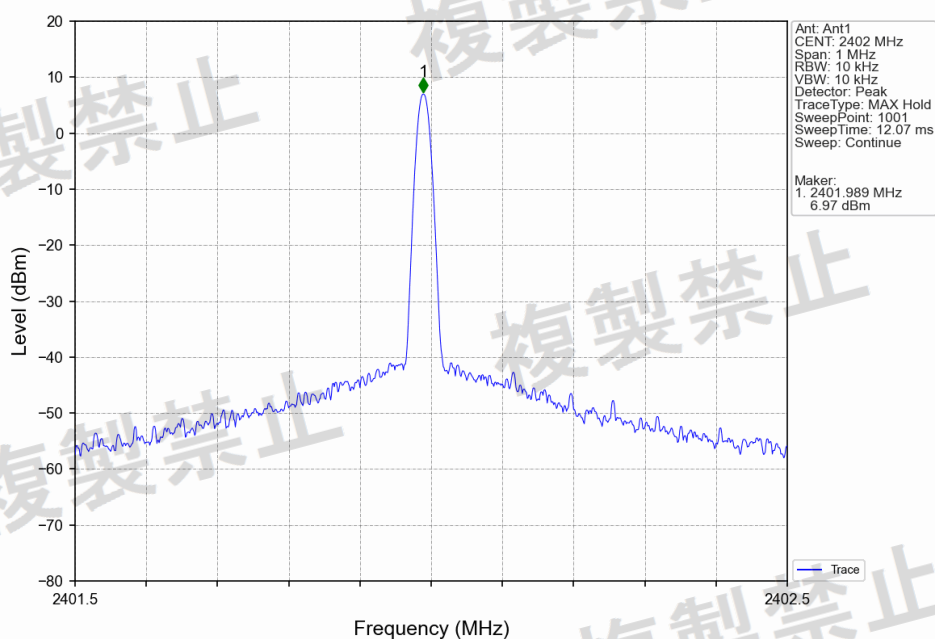
Frequency Error_NTLV_Carrier Wave_2480MHz_Ant1_NTLV



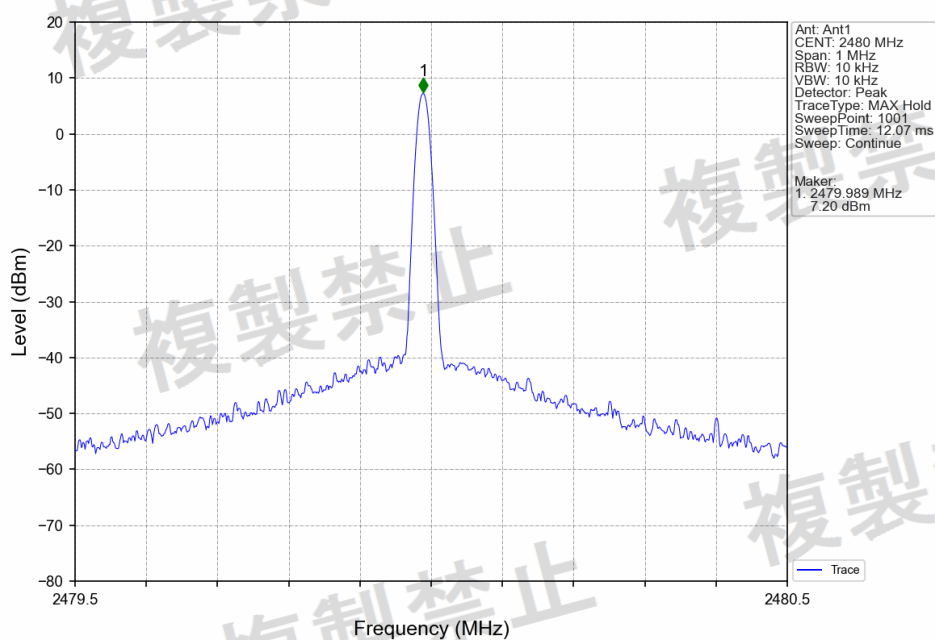
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Frequency Error_NTHV_Carrier Wave_2402MHz_Ant1_NTHV



Frequency Error_NTHV_Carrier Wave_2480MHz_Ant1_NTHV



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2. Occupied Bandwidth (for host machine)

2.1 Test Result

2.1.1 OBW

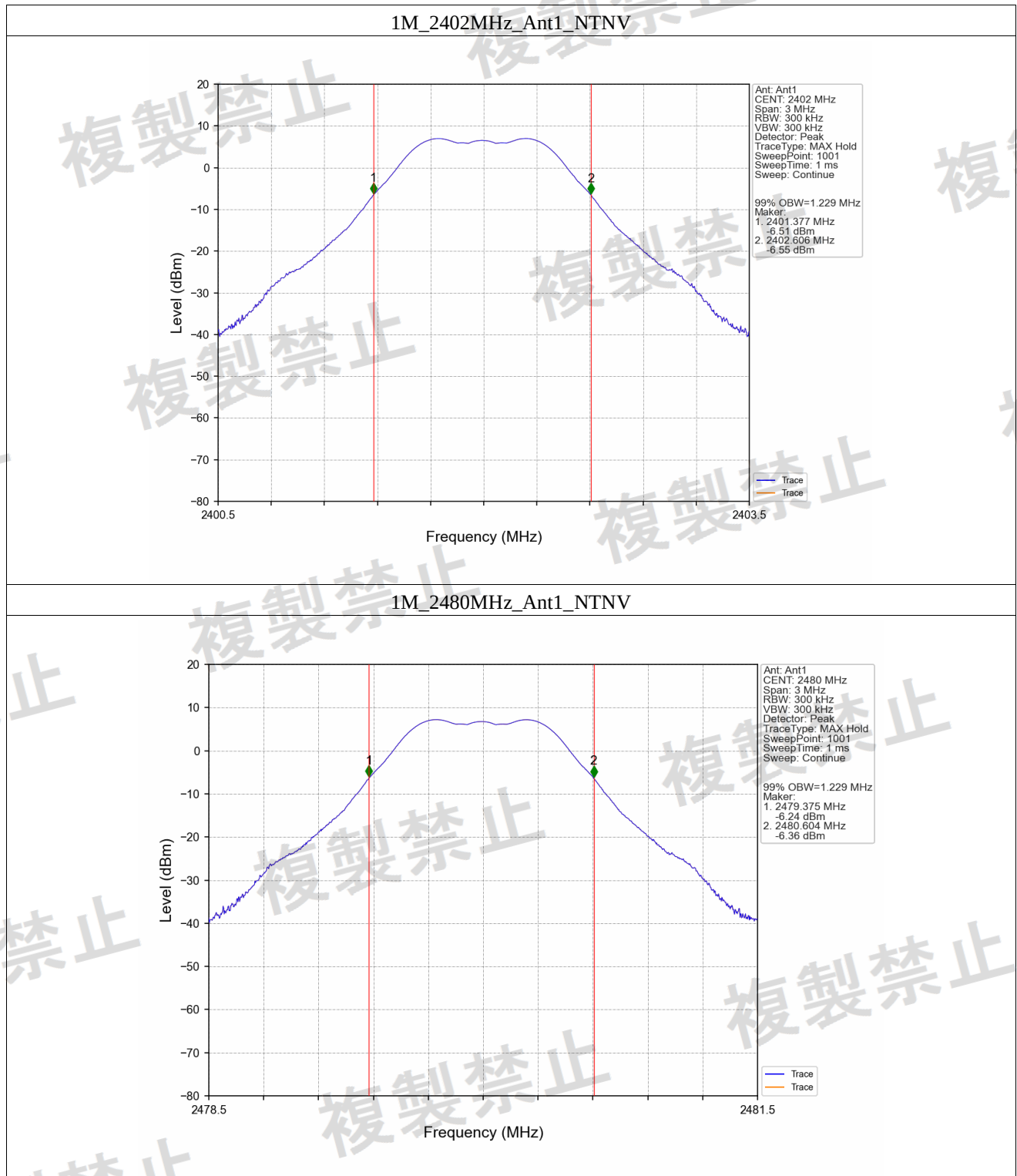
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	1.229	<=26	Pass
			2480	1.229	<=26	Pass
NTLV	1M	SISO	2402	1.229	<=26	Pass
			2480	1.229	<=26	Pass
NTHV	1M	SISO	2402	1.229	<=26	Pass
			2480	1.230	<=26	Pass

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2.2 Test Graph

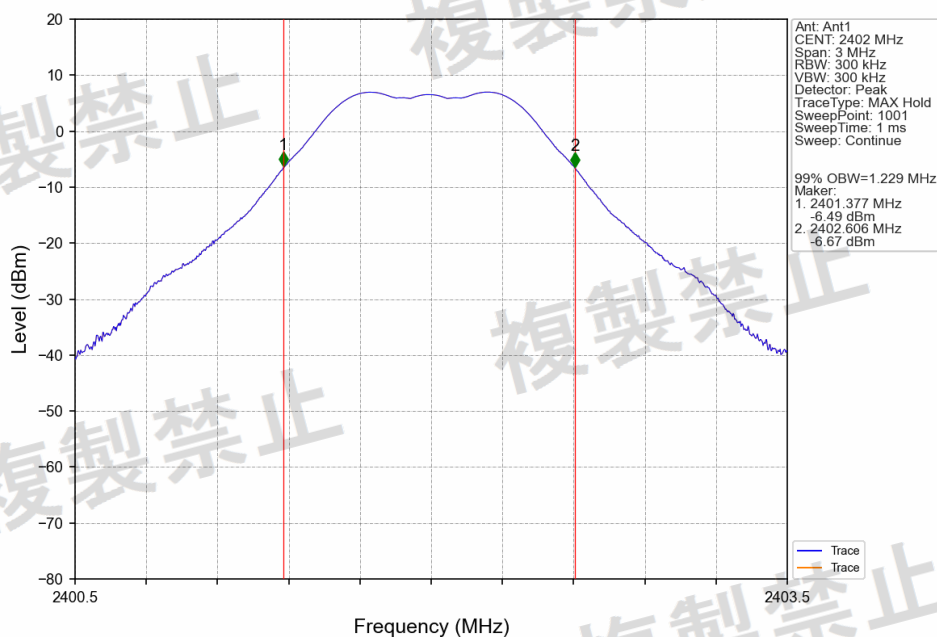
2.2.1 OBW



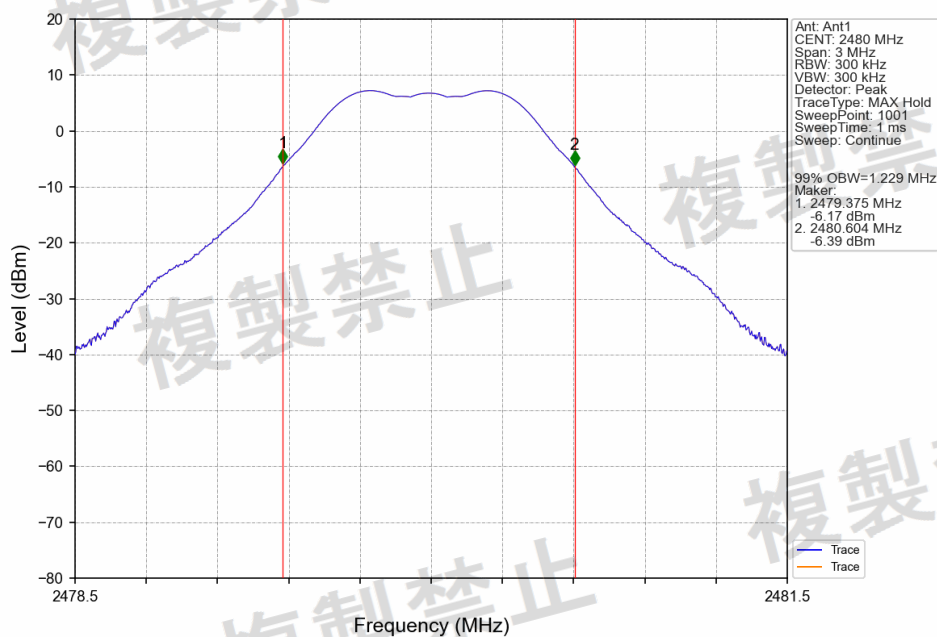
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1M_2402MHz_Ant1_NTLV



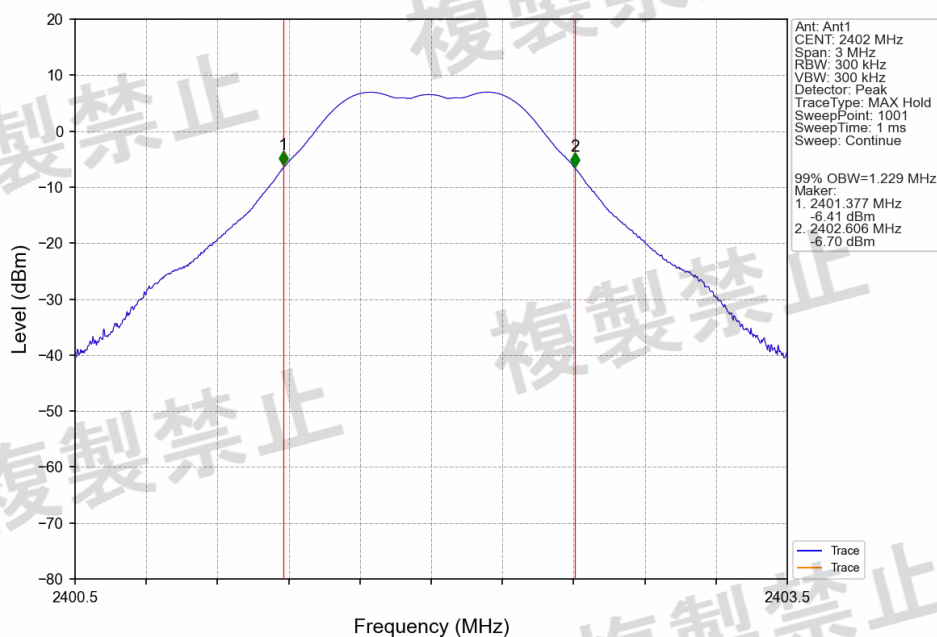
1M_2480MHz_Ant1_NTLV



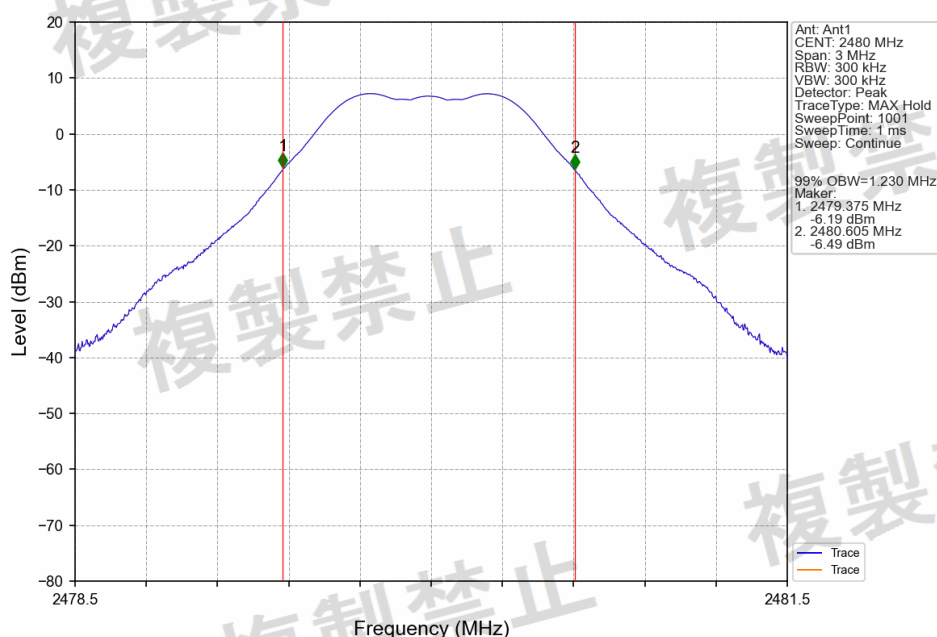
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1M_2402MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



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3. Antenna Power (for host machine)

3.1 Test Result

3.1.1 Power

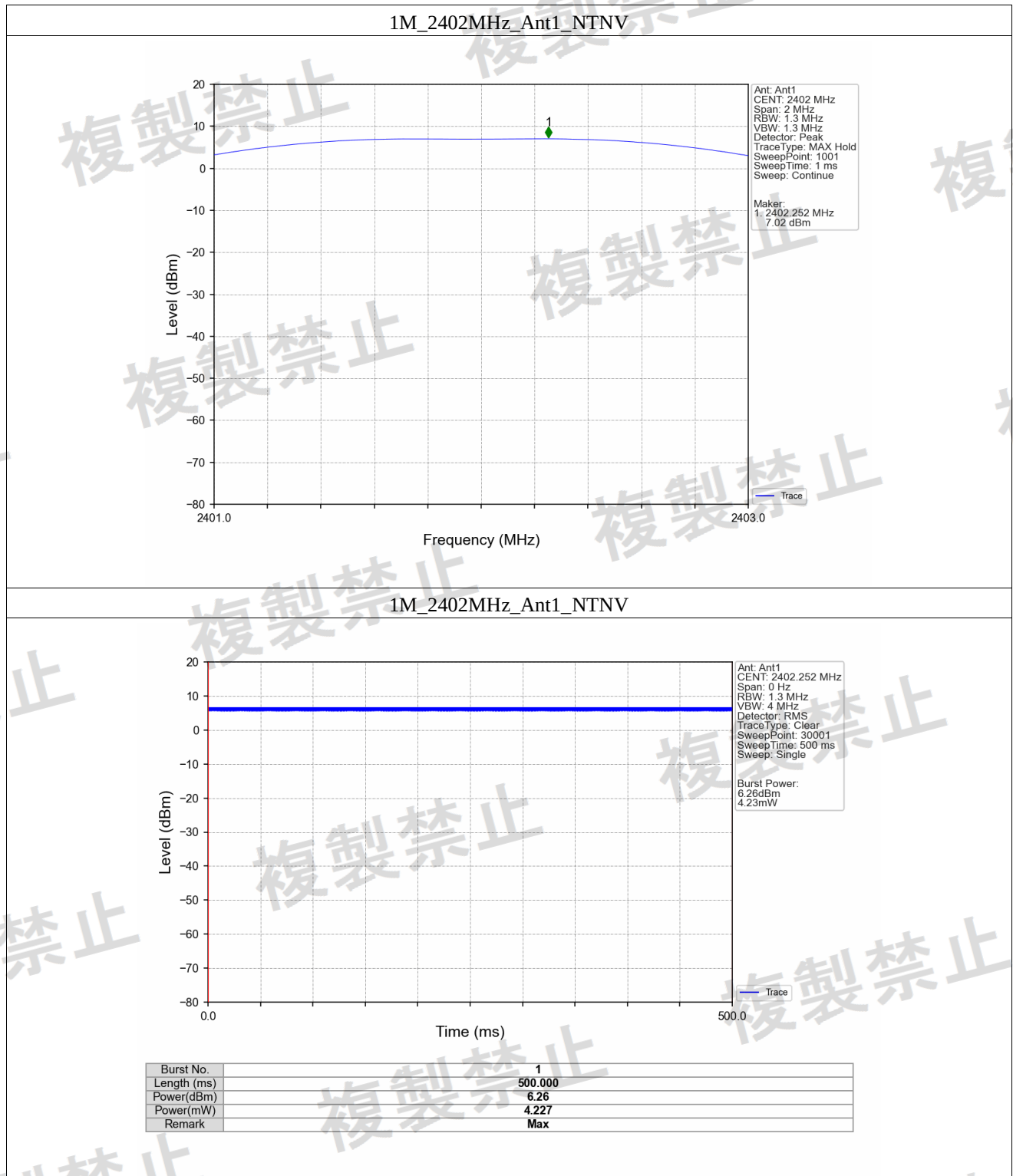
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	1M	SISO	2402	1	4.227	<=10.00	4.200	0.64	<=20	Pass
			2480	1	4.557	<=10.00	4.600	-0.93	<=20	Pass
NTLV	1M	SISO	2402	1	4.317	<=10.00	4.300	0.40	<=20	Pass
			2480	1	4.470	<=10.00	4.500	-0.67	<=20	Pass
NTHV	1M	SISO	2402	1	4.281	<=10.00	4.300	-0.44	<=20	Pass
			2480	1	4.534	<=10.00	4.500	0.76	<=20	Pass

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3.2 Test Graph

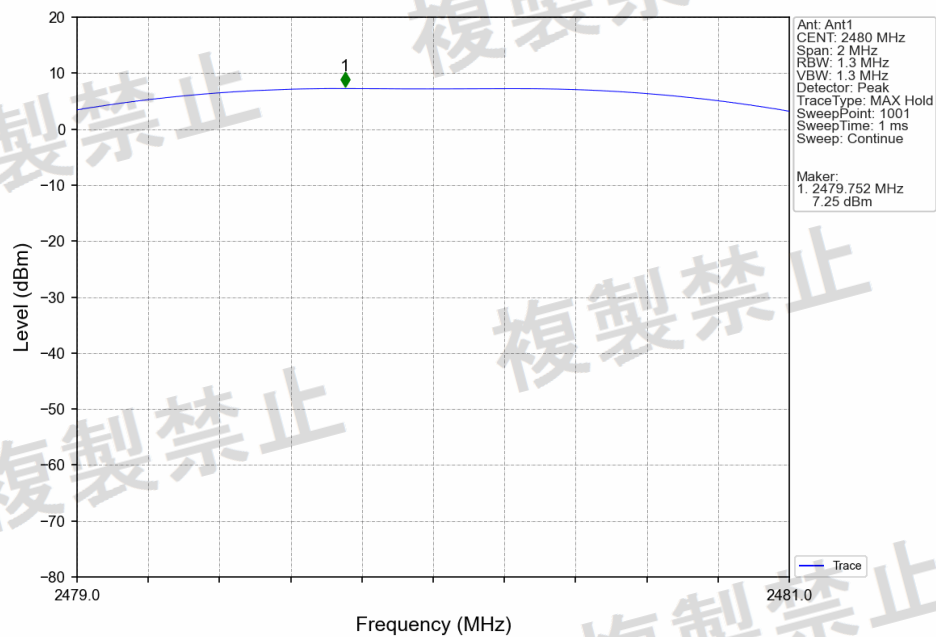
3.2.1 Power



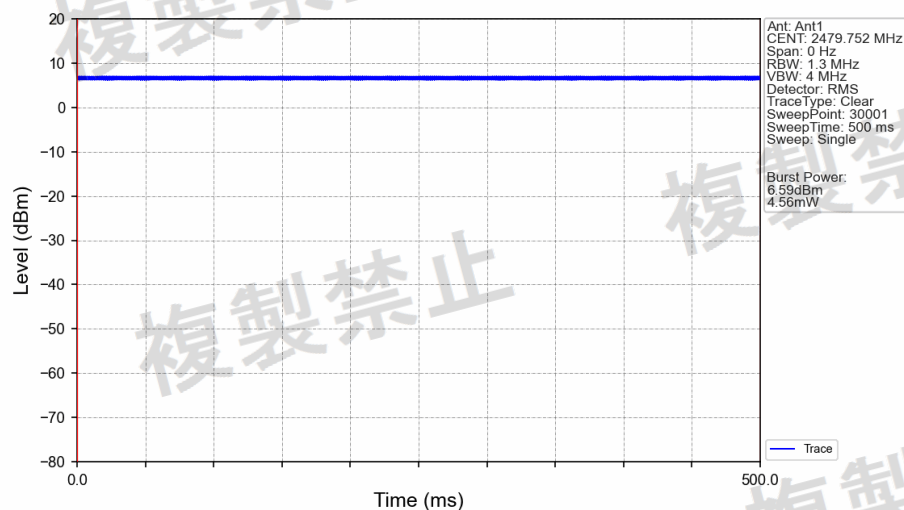
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

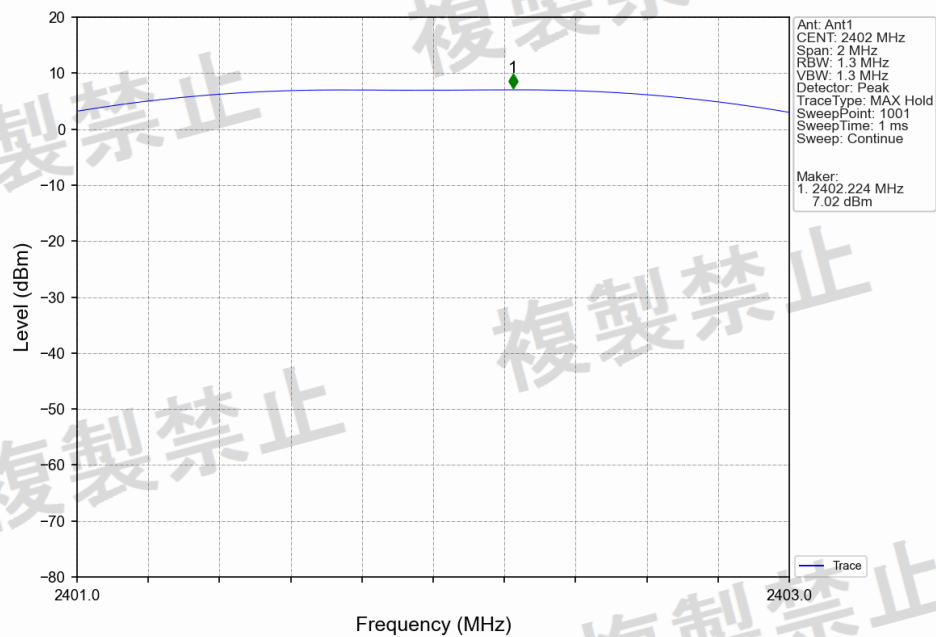


Burst No.	1
Length (ms)	500.000
Power(dBm)	6.59
Power(mW)	4.557
Remark	Max

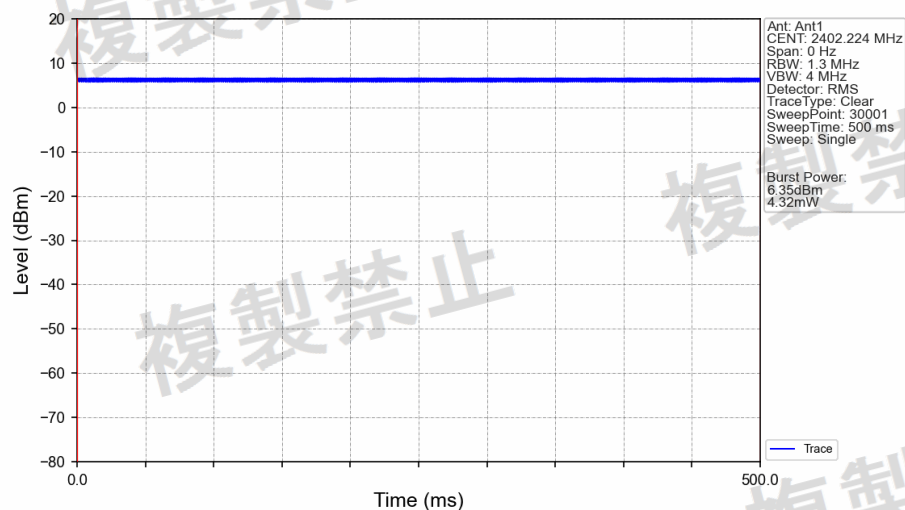
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1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

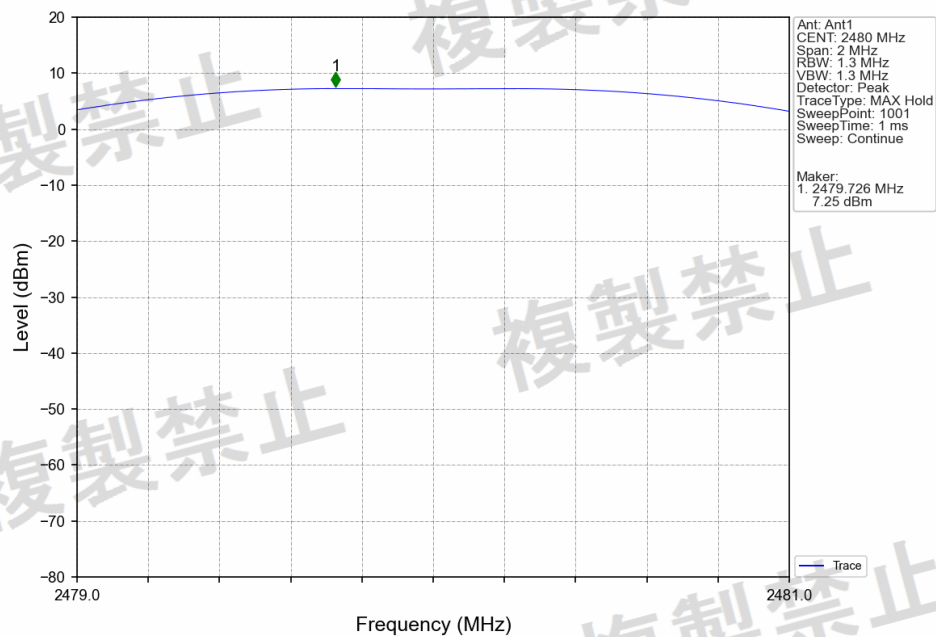


Burst No.	1
Length (ms)	500.000
Power(dBm)	6.35
Power(mW)	4.317
Remark	Max

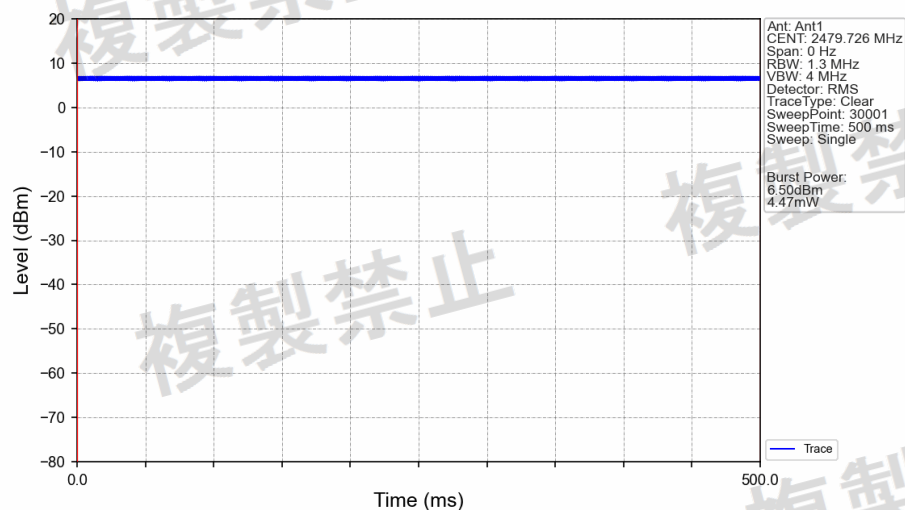
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1M_2480MHz_Ant1_NTLV



1M_2480MHz_Ant1_NTLV

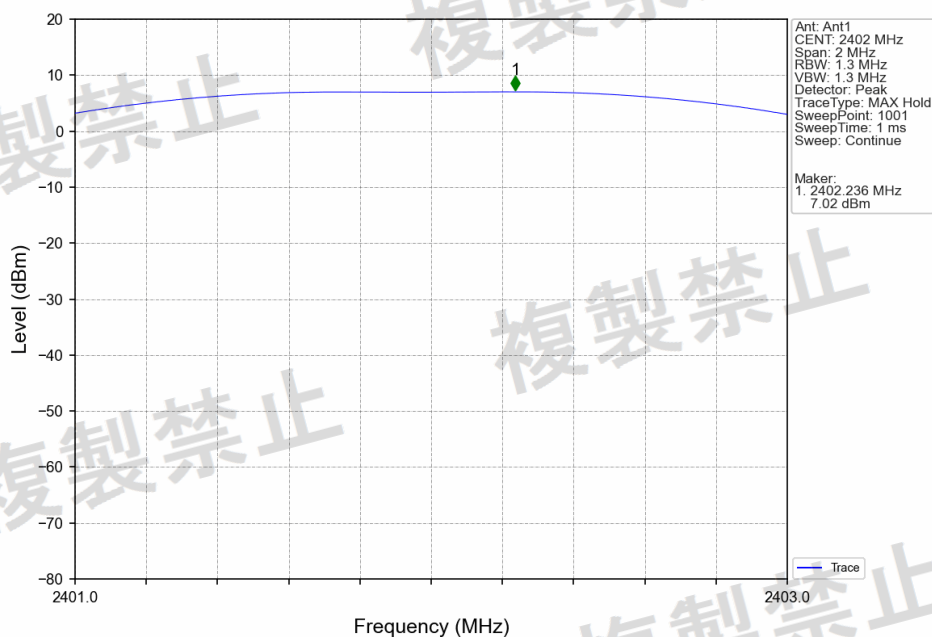


Burst No.	1
Length (ms)	500.000
Power(dBm)	6.50
Power(mW)	4.470
Remark	Max

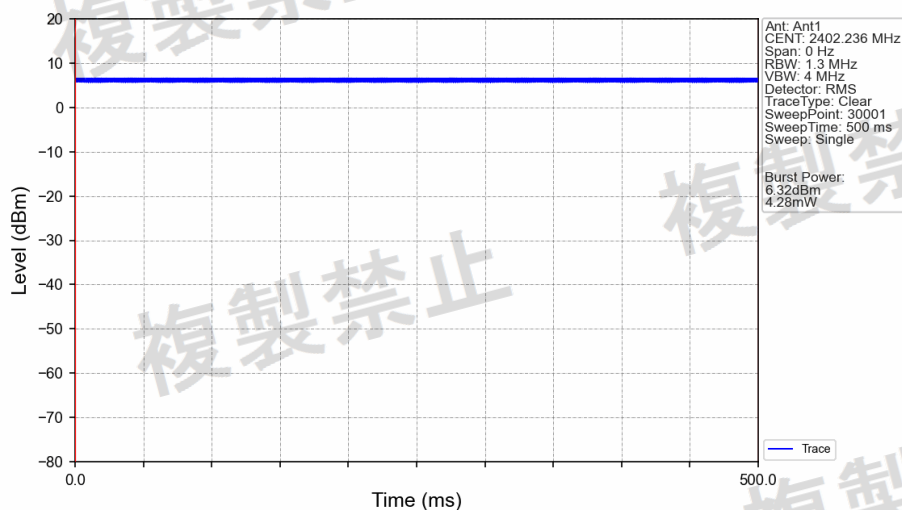
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1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

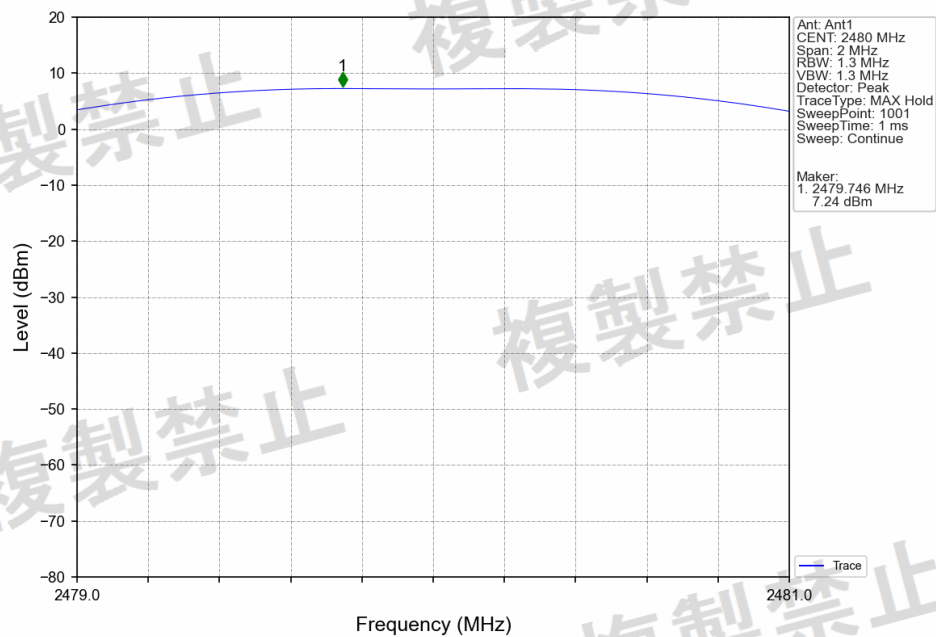


Burst No.	1
Length (ms)	500.000
Power(dBm)	6.32
Power(mW)	4.281
Remark	Max

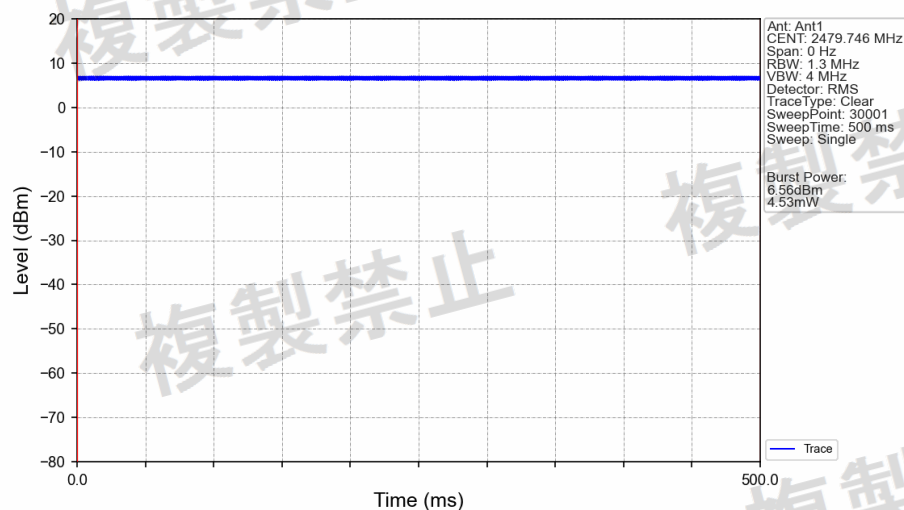
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



Burst No.	1
Length (ms)	500.000
Power(dBm)	6.56
Power(mW)	4.534
Remark	Max

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4. Spurious Emission Intensity (for host machine)

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)		
1M	SISO	2402	1	30	2387	2364.5	-51.16	0.008	/	/	2.5	Pass
				2387	2400	2399.987	-28.73	1.340	/	/	25	Pass
				2483.5	2496.5	2492.002	-54.02	0.004	/	/	25	Pass
				2496.5	12500	5740	-42.21	0.060	/	/	2.5	Pass
		2480	1	30	2387	2054.5	-51.47	0.007	/	/	2.5	Pass
				2387	2400	2387.962	-54.13	0.004	/	/	25	Pass
				2483.5	2496.5	2483.526	-43.07	0.049	/	/	25	Pass
				2496.5	12500	5098	-46.33	0.023	/	/	2.5	Pass

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)		
1M	SISO	2402	1	30	2387	2365	-51.66	0.007	/	/	2.5	Pass
				2387	2400	2399.987	-28.77	1.327	/	/	25	Pass
				2483.5	2496.5	2493.653	-53.54	0.004	/	/	25	Pass
				2496.5	12500	5094	-41.55	0.070	/	/	2.5	Pass
		2480	1	30	2387	2078.5	-52.27	0.006	/	/	2.5	Pass
				2387	2400	2387.104	-53.64	0.004	/	/	25	Pass
				2483.5	2496.5	2483.838	-42.13	0.061	/	/	25	Pass
				2496.5	12500	2520.5	-37.55	0.176	/	/	2.5	Pass

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4.1.3 TxSe_NTHV

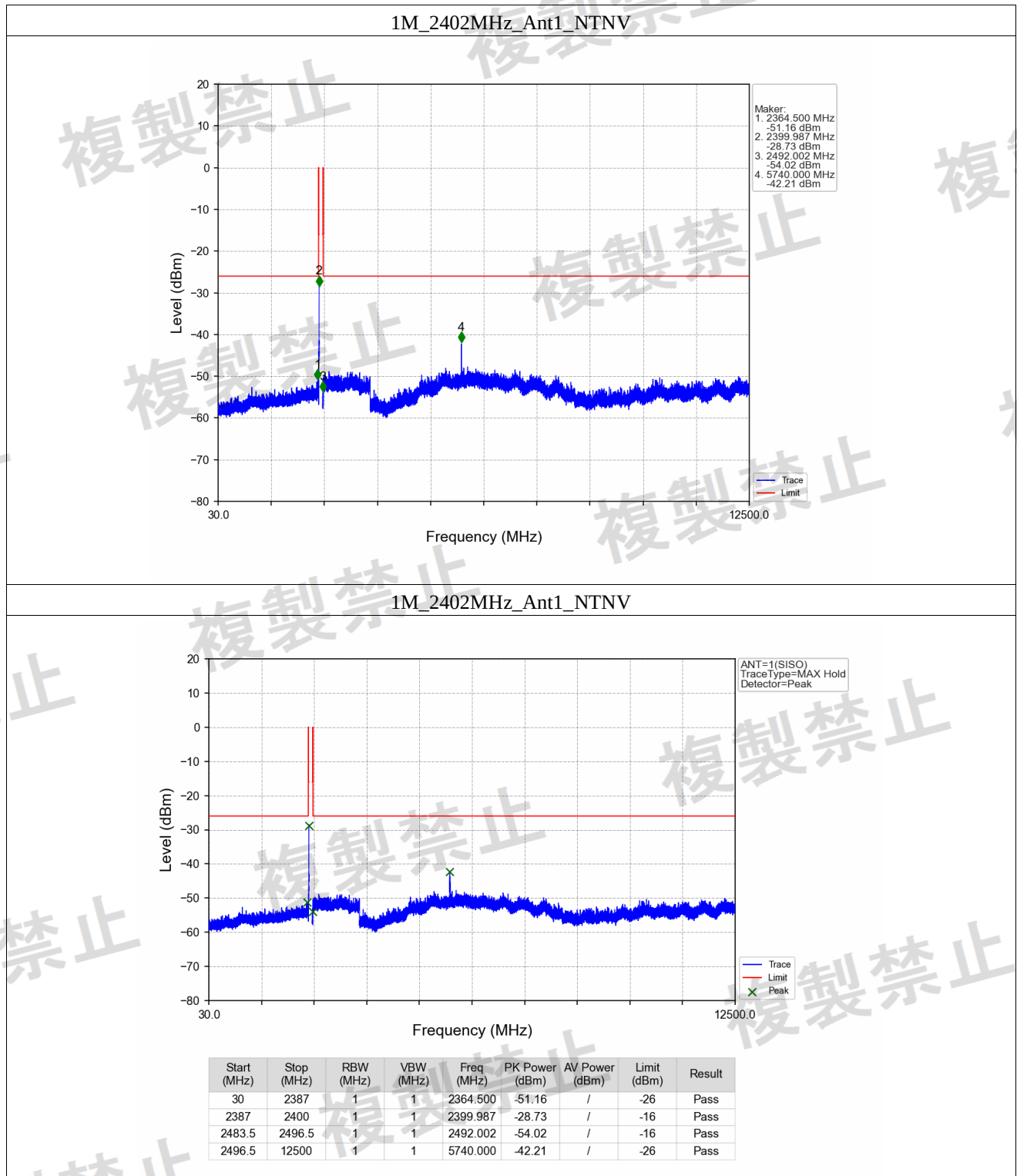
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2364.5	-51.74	0.007	/	/	2.5	Pass
				2387	2400	2399.987	-29.00	1.259	/	/	25	Pass
				2483.5	2496.5	2487.309	-53.90	0.004	/	/	25	Pass
				2496.5	12500	5743	-42.49	0.056	/	/	2.5	Pass
		2480	1	30	2387	2324	-52.25	0.006	/	/	2.5	Pass
				2387	2400	2387.338	-53.98	0.004	/	/	25	Pass
				2483.5	2496.5	2483.721	-43.11	0.049	/	/	25	Pass
				2496.5	12500	5098	-42.23	0.060	/	/	2.5	Pass

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4.2 Test Graph

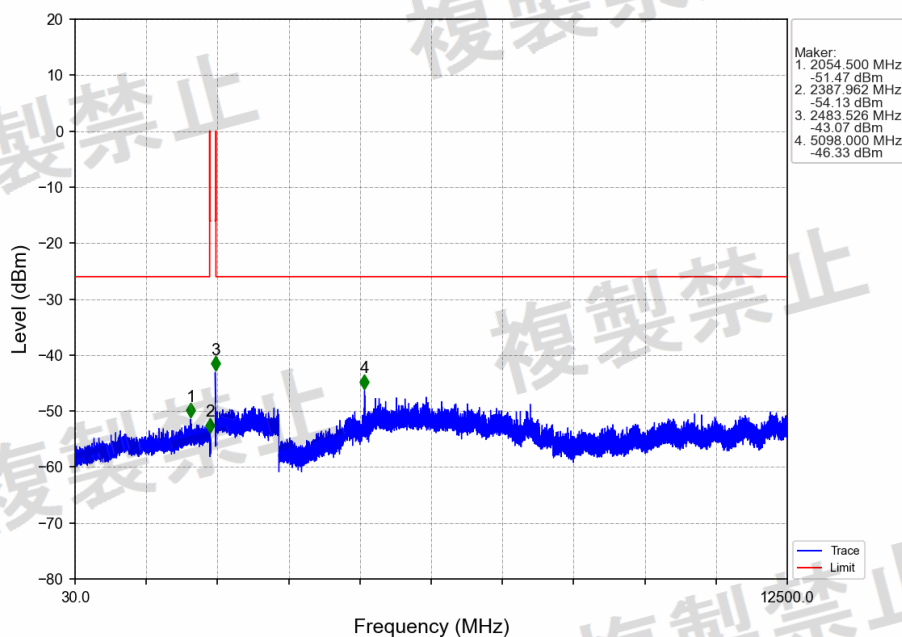
4.2.1 TxSe_NTNV



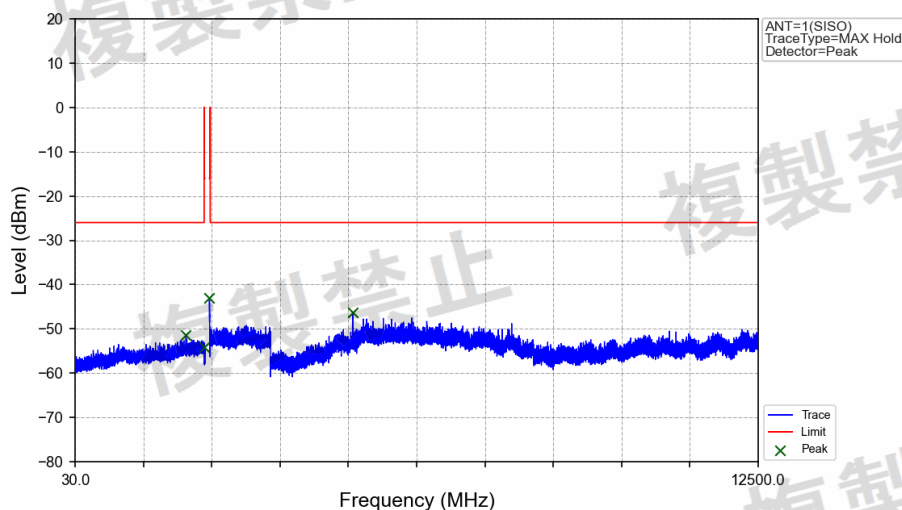
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV



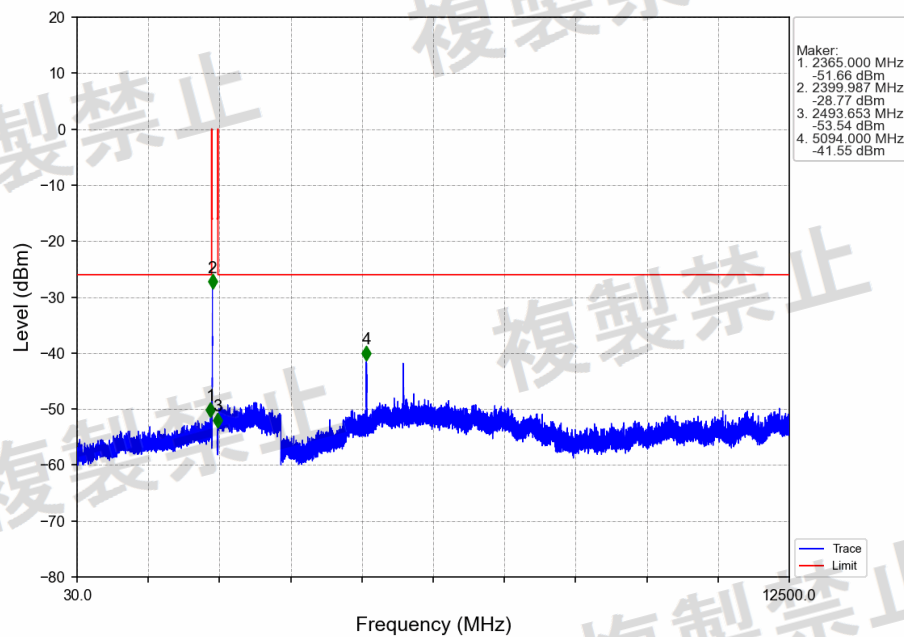
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2054.500	-51.47	/	-26	Pass
2387	2400	1	1	2387.962	-54.13	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-43.07	/	-16	Pass
2496.5	12500	1	1	5098.000	-46.33	/	-26	Pass

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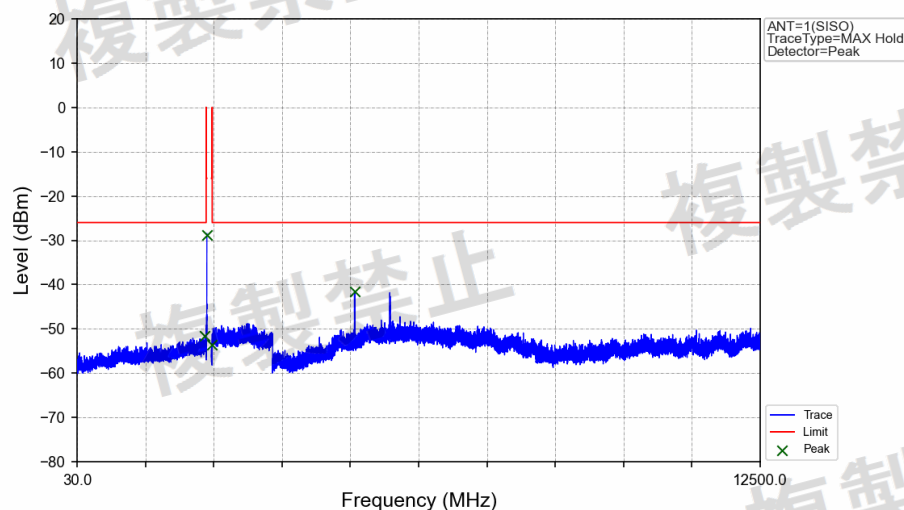
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4.2.2 TxSe_NTLV

1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

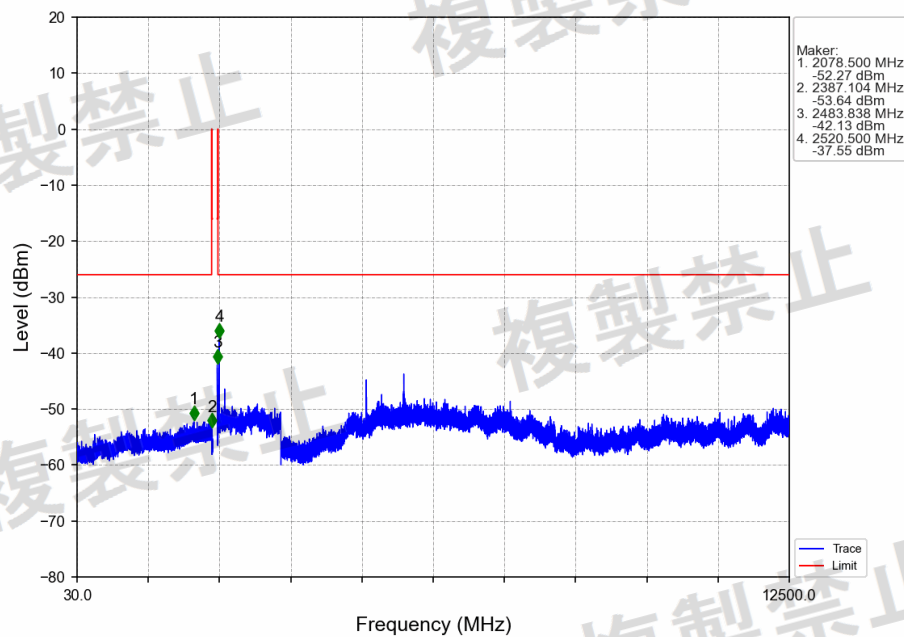


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2365.000	-51.66	/	-26	Pass
2387	2400	1	1	2399.987	-28.77	/	-16	Pass
2483.5	2496.5	1	1	2493.653	-53.54	/	-16	Pass
2496.5	12500	1	1	5094.000	-41.55	/	-26	Pass

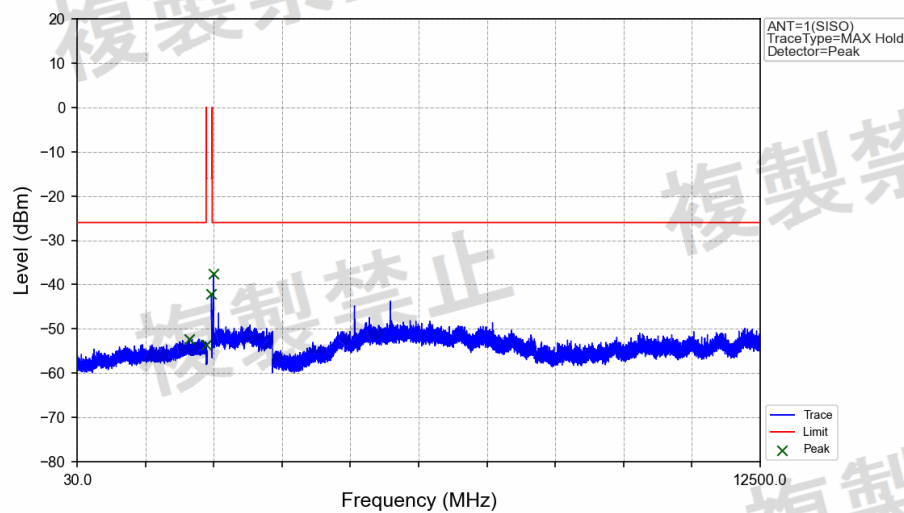
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1M_2480MHz_Ant1_NTLV



1M_2480MHz_Ant1_NTLV



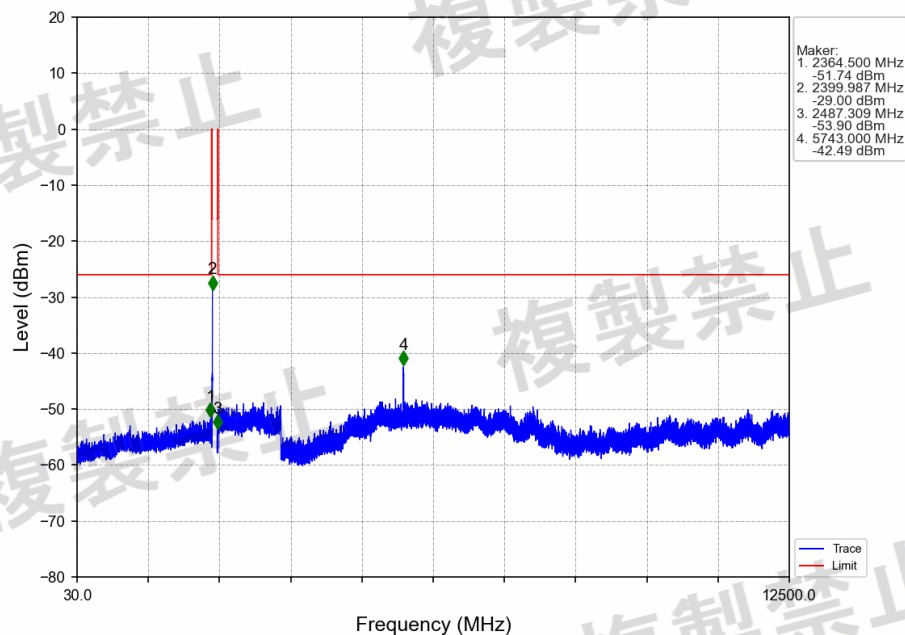
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2078.500	-52.27	/	-26	Pass
2387	2400	1	1	2387.104	-53.64	/	-16	Pass
2483.5	2496.5	1	1	2483.838	-42.13	/	-16	Pass
2496.5	12500	1	1	2520.500	-37.55	/	-26	Pass

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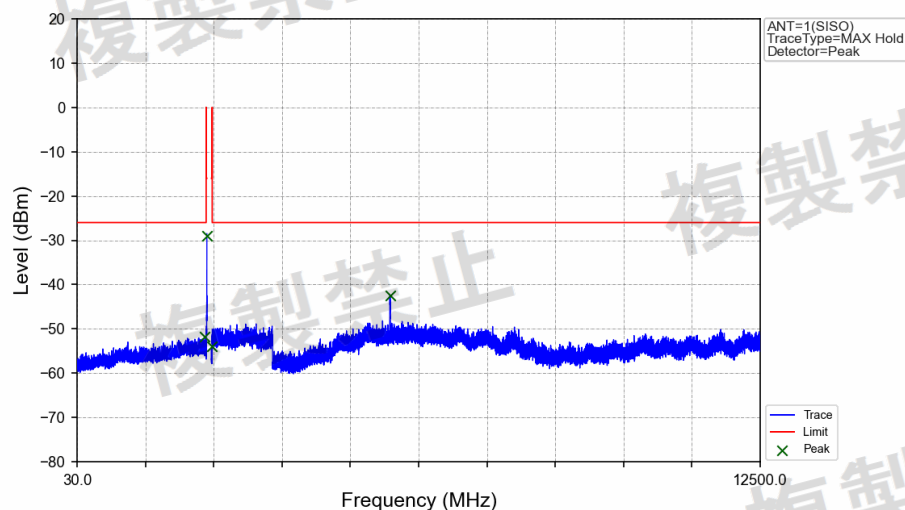
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4.2.3 TxSe_NTHV

1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

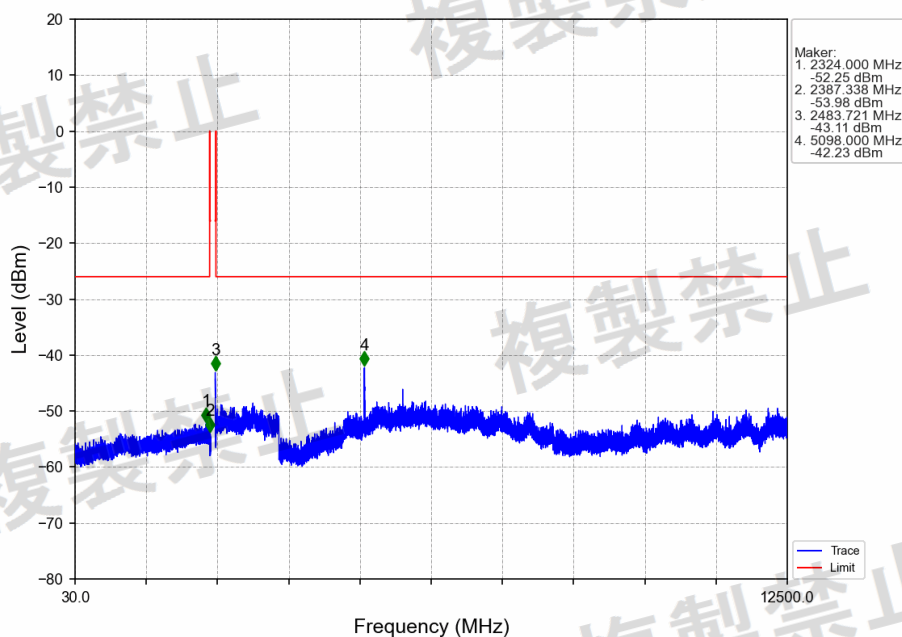


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2364.500	-51.74	/	-26	Pass
2387	2400	1	1	2399.987	-29.00	/	-16	Pass
2483.5	2496.5	1	1	2487.309	-53.90	/	-16	Pass
2496.5	12500	1	1	5743.000	-42.49	/	-26	Pass

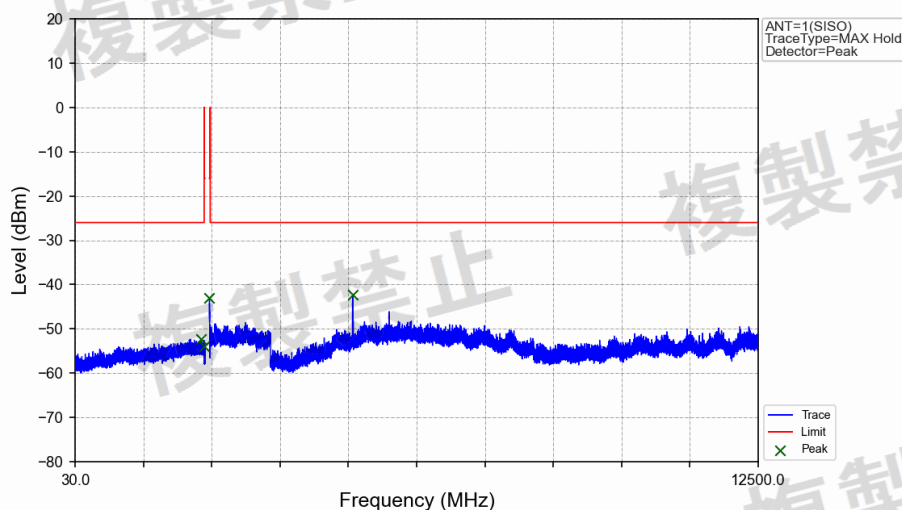
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2324.000	-52.25	/	-26	Pass
2387	2400	1	1	2387.338	-53.98	/	-16	Pass
2483.5	2496.5	1	1	2483.721	-43.11	/	-16	Pass
2496.5	12500	1	1	5098.000	-42.23	/	-26	Pass

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5. Secondary Radiated Emission (for host machine)

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)		
1M	SISO	2402	1	30	1000	220	-64.05	0.394	/	/	4	Pass
				1000	12500	2443.5	-36.71	213.304	-75.83	0.026	20	Pass
						2446.5	-28.26	1492.794	-75.61	0.027	20	Pass
						2449.5	-31.20	758.578	-75.58	0.028	20	Pass
						2452.5	-45.77	26.485	-75.62	0.027	20	Pass
						2471	-51.37	7.295	-76.04	0.025	20	Pass
		2480	1	30	1000	440	-69.06	0.124	/	/	4	Pass
				1000	12500	2449	-47.05	19.724	-76.01	0.025	20	Pass
						2454	-41.31	73.961	-76.20	0.024	20	Pass
						2457	-45.44	28.576	-51.55	6.998	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)		
1M	SISO	2402	1	30	1000	950.75	-72.78	0.053	/	/	4	Pass
				1000	12500	2448.5	-55.47	2.838	/	/	20	Pass
		2480	1	30	1000	440	-69.36	0.116	/	/	4	Pass
				1000	12500	2449.5	-46.92	20.324	-76.15	0.024	20	Pass
						2454.5	-41.49	70.958	-76.07	0.025	20	Pass
						2457.5	-50.05	9.886	-54.41	3.622	20	Pass
						5093.5	-50.59	8.730	-75.52	0.028	20	Pass
						5100	-51.98	6.339	-75.27	0.030	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)		
1M	SISO	2402	1	30	1000	110.7	-62.06	0.622	/	/	4	Pass
				1000	12500	2443.5	-38.78	132.434	-75.72	0.027	20	Pass
						2446.5	-27.91	1618.080	-69.87	0.103	20	Pass
						2449.5	-29.40	1148.154	-75.71	0.027	20	Pass
						2452.5	-41.55	69.984	-74.78	0.033	20	Pass
						5113	-50.35	9.226	-74.37	0.037	20	Pass
		2480	1	30	1000	440	-68.59	0.138	/	/	4	Pass
				1000	12500	2449.5	-46.54	22.182	-76.04	0.025	20	Pass
						2454	-40.82	82.794	-76.01	0.025	20	Pass
						2457	-45.28	29.648	-51.78	6.637	20	Pass

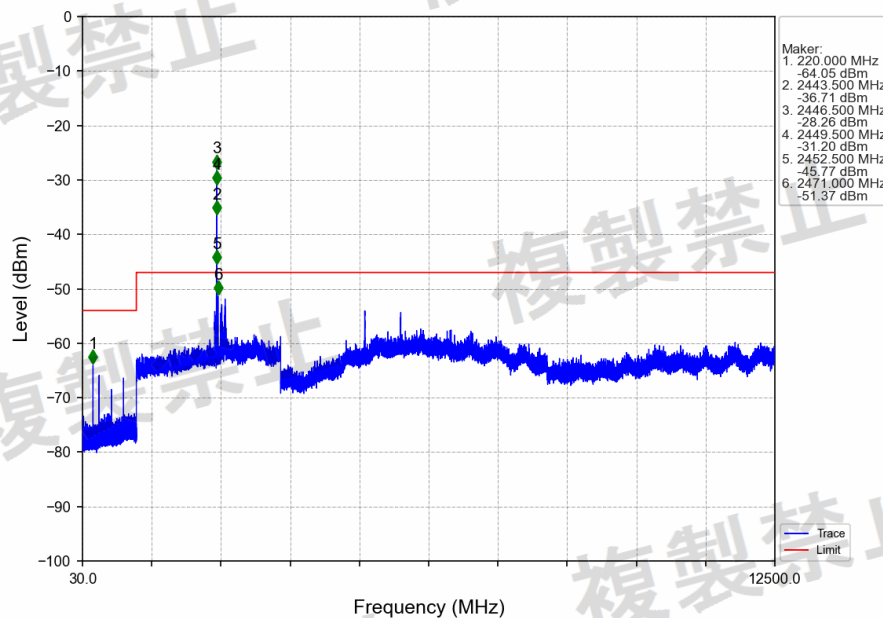
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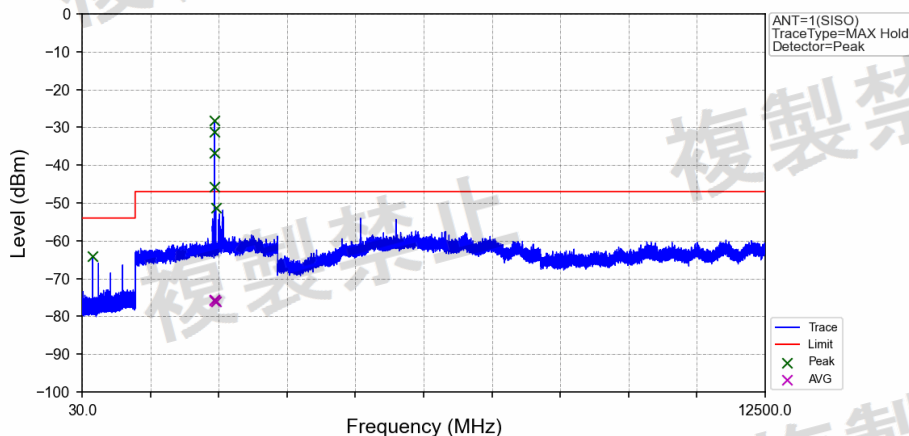
5.2 Test Graph

5.2.1 RxSe_NTNV

1M_2402MHz_Ant1_NTNV



1M_2402MHz_Ant1_NTNV

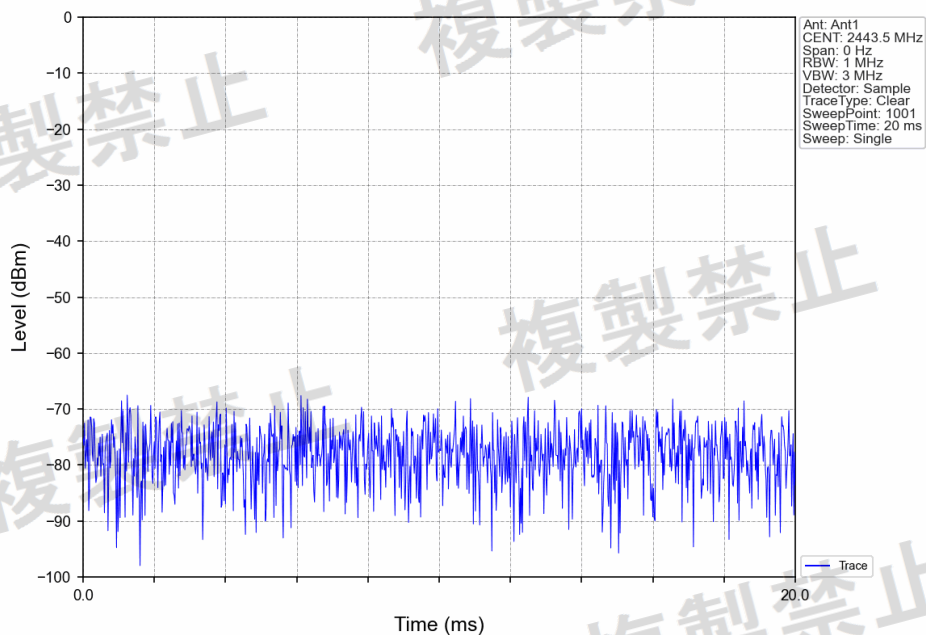


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	220.000	-64.05	/	-54	Pass
1000	12500	1	1	2443.500	-36.71	-75.83	-47	Pass
1000	12500	1	1	2446.500	-28.26	-75.61	-47	Pass
1000	12500	1	1	2449.500	-31.20	-75.58	-47	Pass
1000	12500	1	1	2452.500	-45.77	-75.62	-47	Pass
1000	12500	1	1	2471.000	-51.37	-76.04	-47	Pass

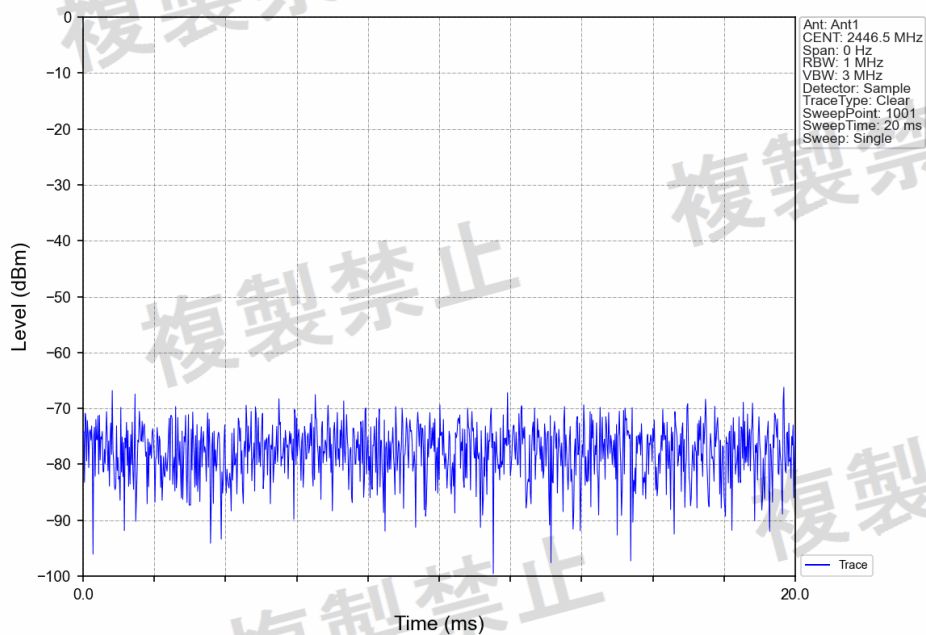
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1M_2402MHz_Ant1_NTNV



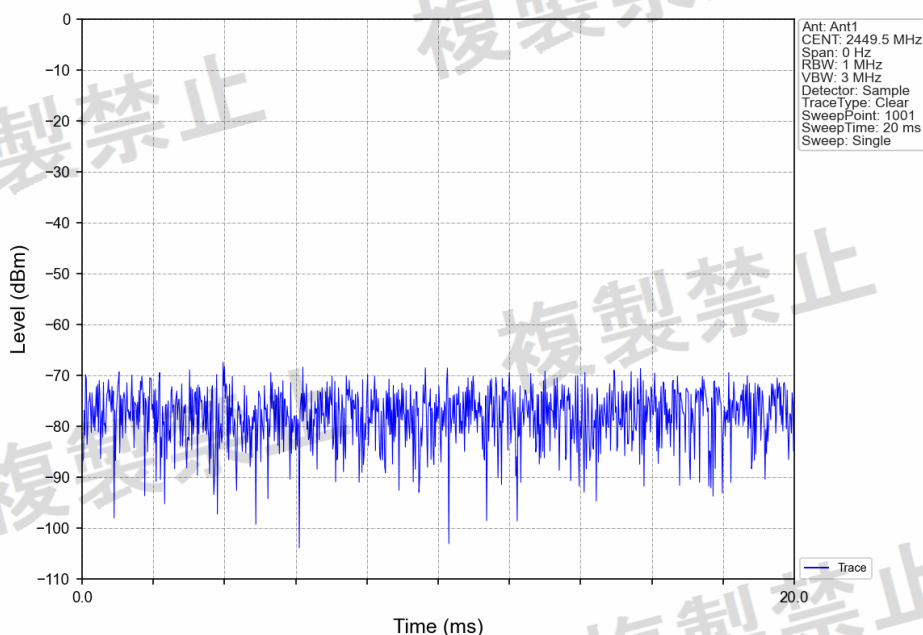
1M_2402MHz_Ant1_NTNV



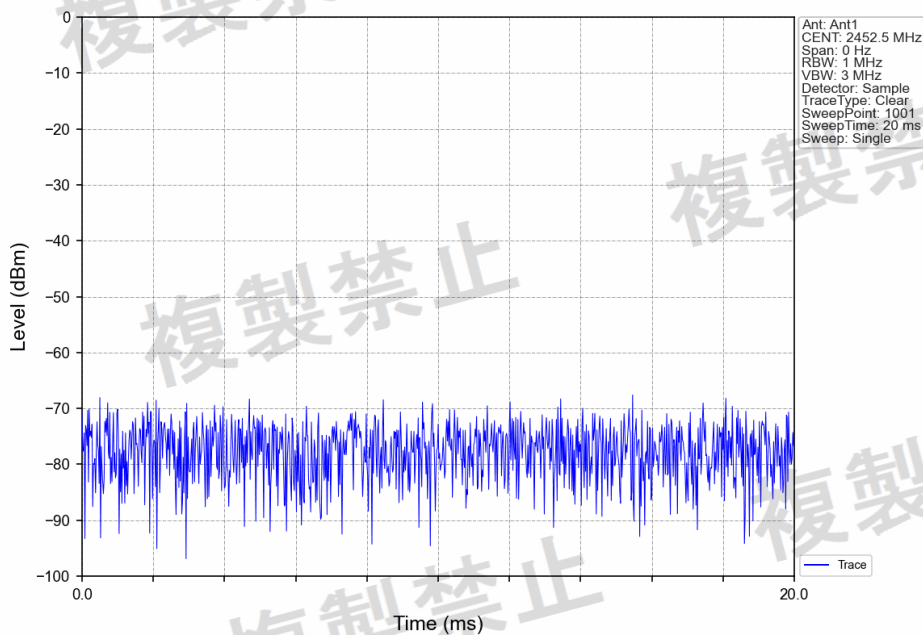
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1M_2402MHz_Ant1_NTNV



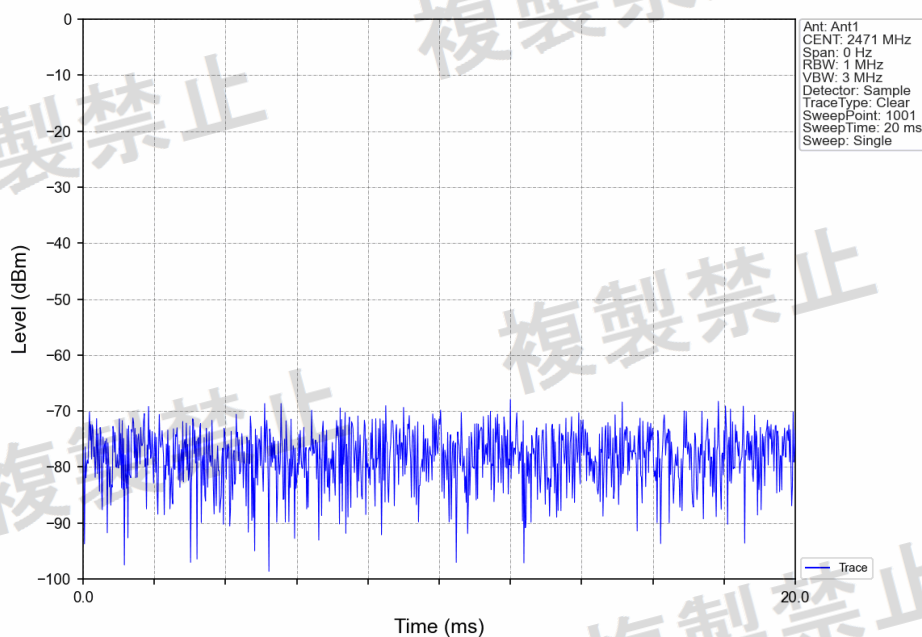
1M_2402MHz_Ant1_NTNV



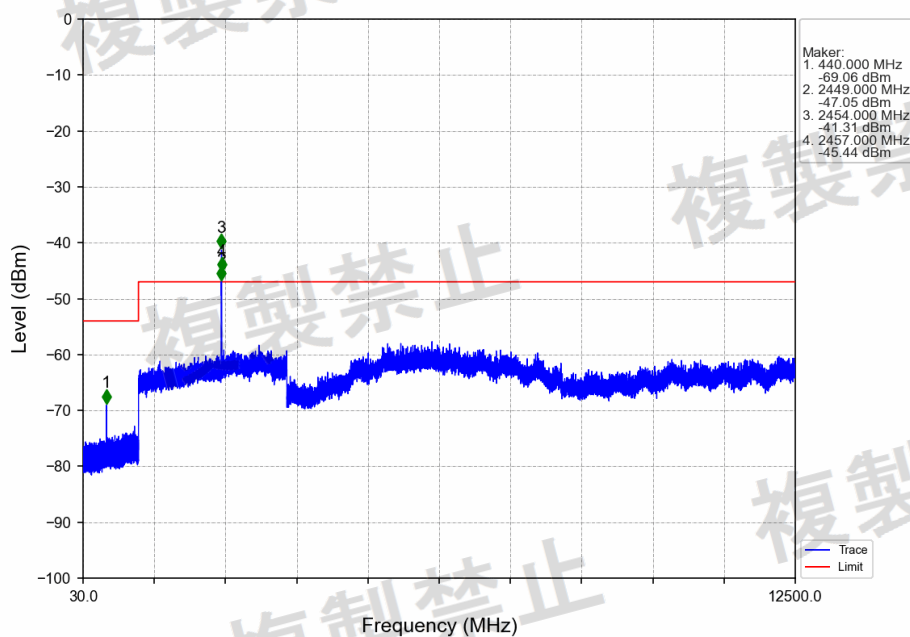
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1M_2402MHz_Ant1_NTNV



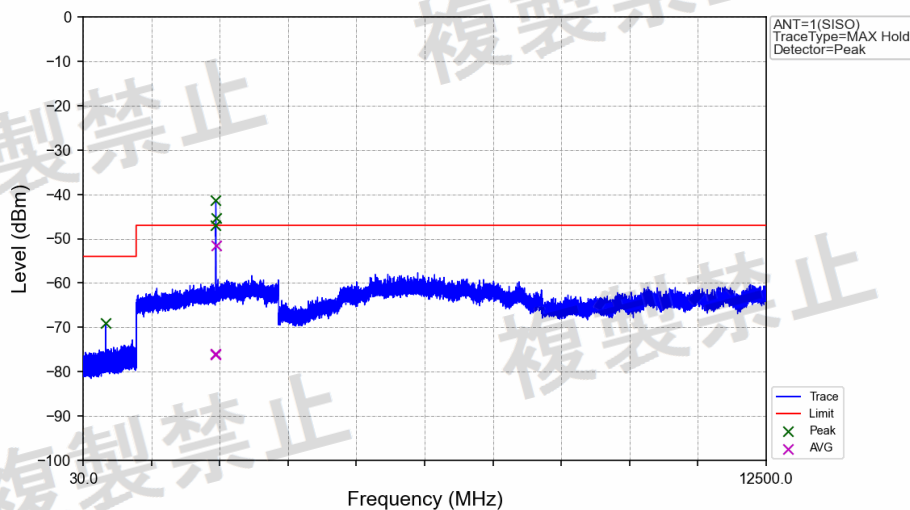
1M_2480MHz_Ant1_NTNV



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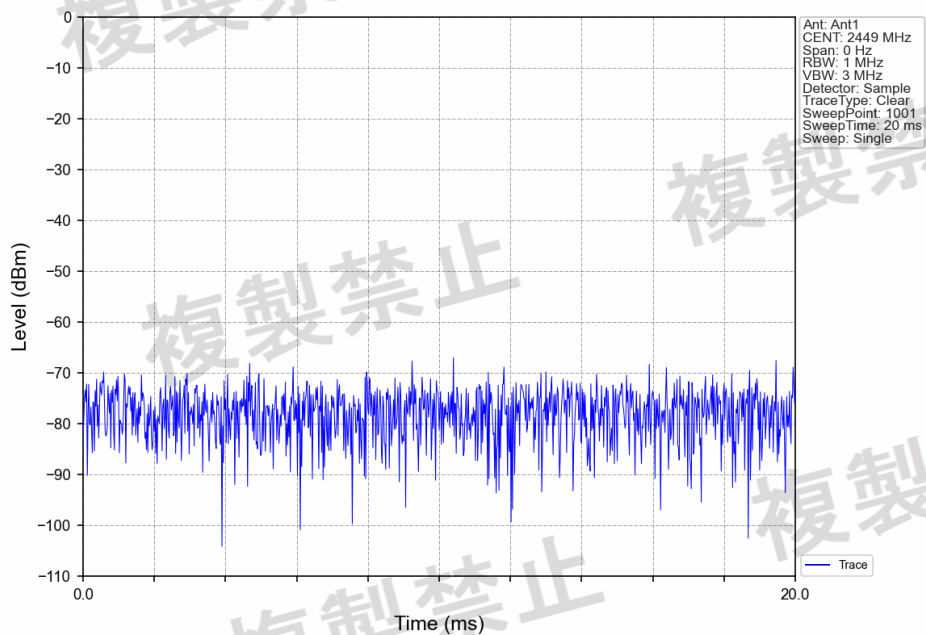
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1M_2480MHz_Ant1_NTNV



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	440.000	-69.06	/	-54	Pass
1000	12500	1	1	2449.000	-47.05	-76.01	-47	Pass
1000	12500	1	1	2454.000	-41.31	-76.20	-47	Pass
1000	12500	1	1	2457.000	-45.44	-51.55	-47	Pass

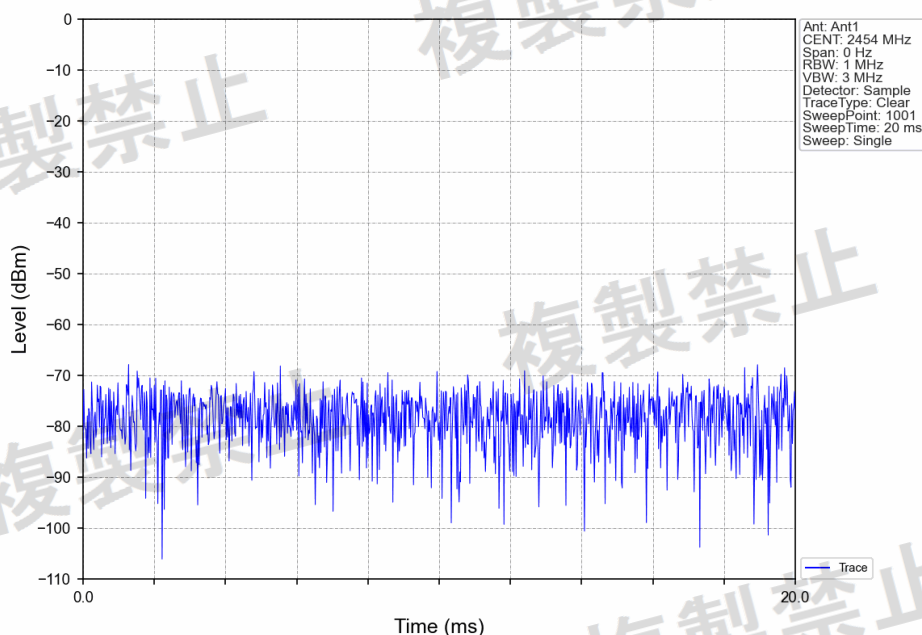
1M_2480MHz_Ant1_NTNV



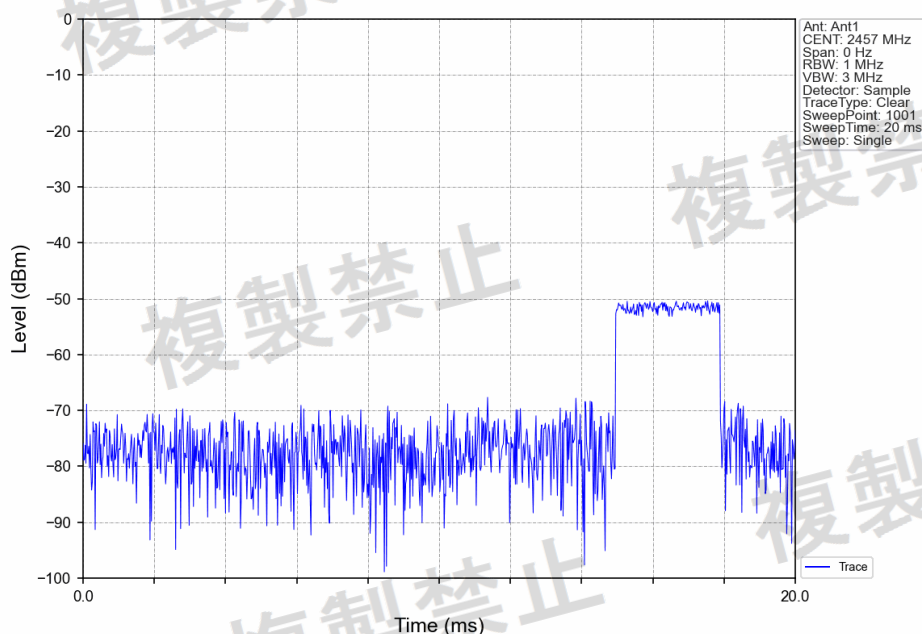
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

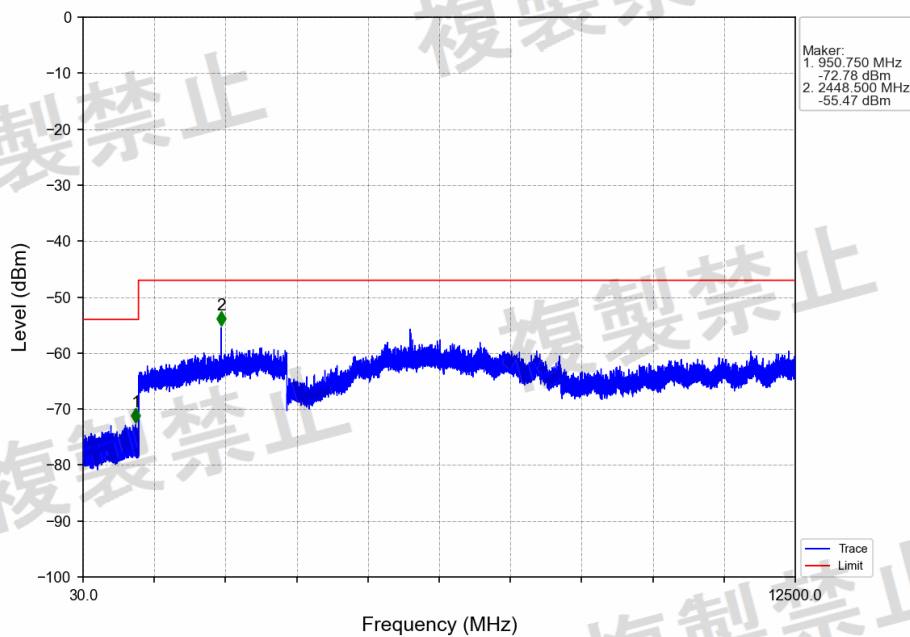


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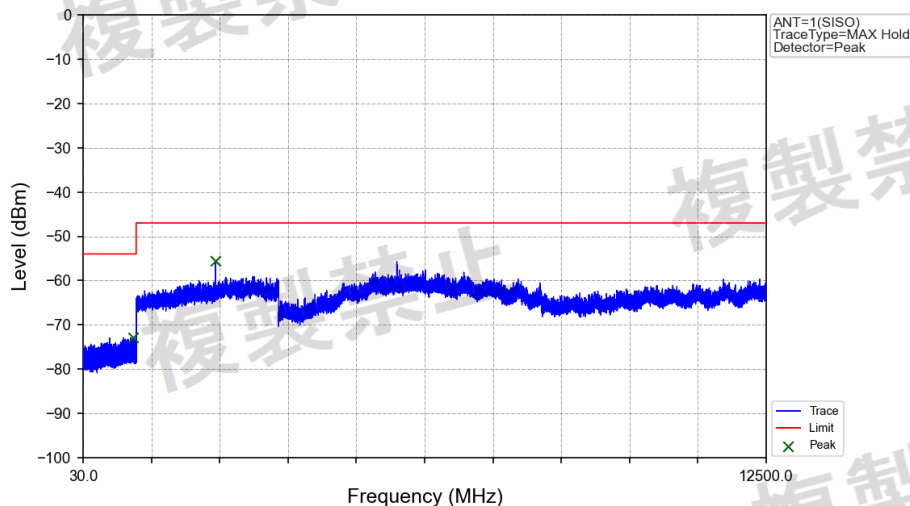
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5.2.2 RxSe_NTLV

1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

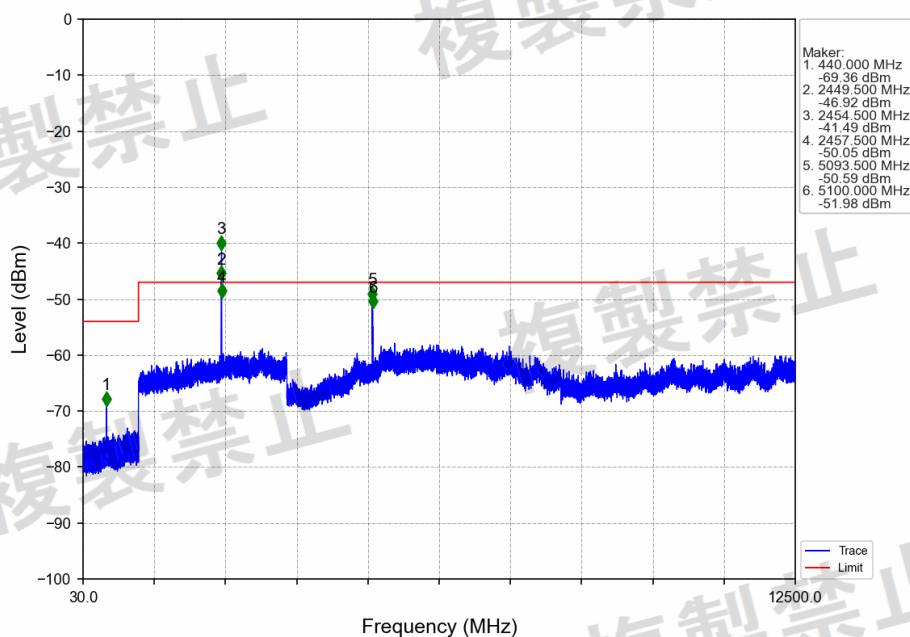


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	950.750	-72.78	/	-54	Pass
1000	12500	1	1	2448.500	-55.47	/	-47	Pass

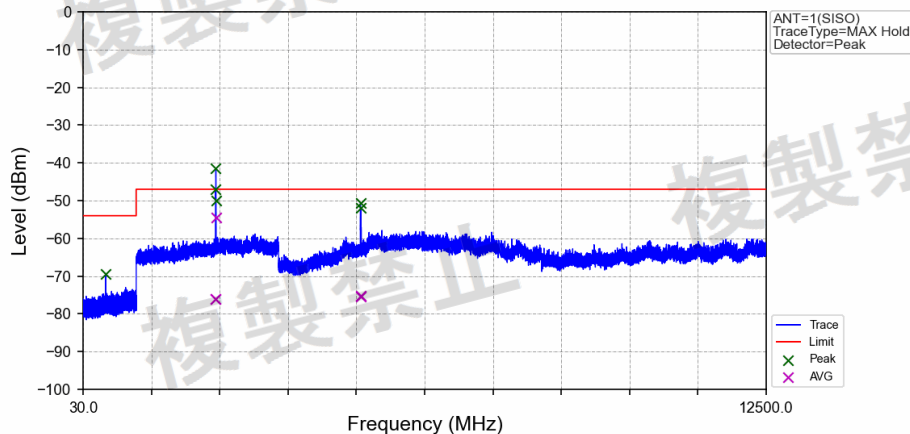
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1M_2480MHz_Ant1_NTLV



1M_2480MHz_Ant1_NTLV

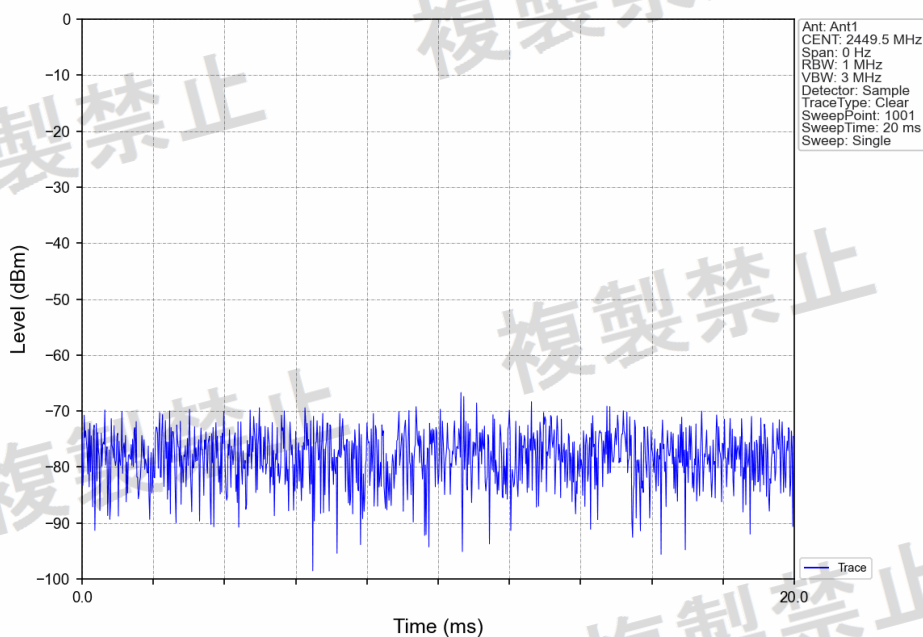


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	440.000	-69.36	-	-54	Pass
1000	12500	1	1	2449.500	-46.92	-76.15	-47	Pass
1000	12500	1	1	2454.500	-41.49	-76.07	-47	Pass
1000	12500	1	1	2457.500	-50.05	-54.41	-47	Pass
1000	12500	1	1	5093.500	-50.59	-75.52	-47	Pass
1000	12500	1	1	5100.000	-51.98	-75.27	-47	Pass

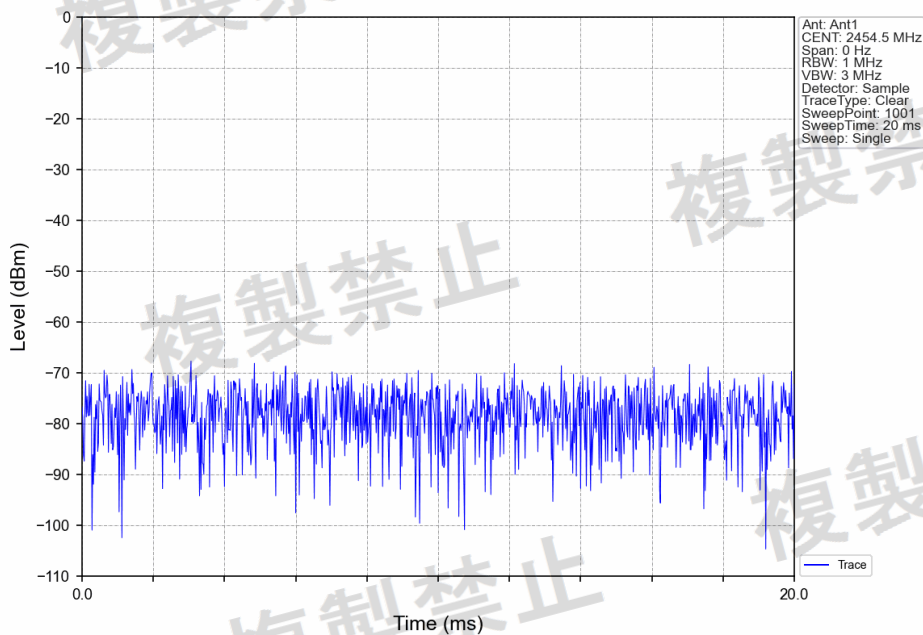
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1M_2480MHz_Ant1_NTLV



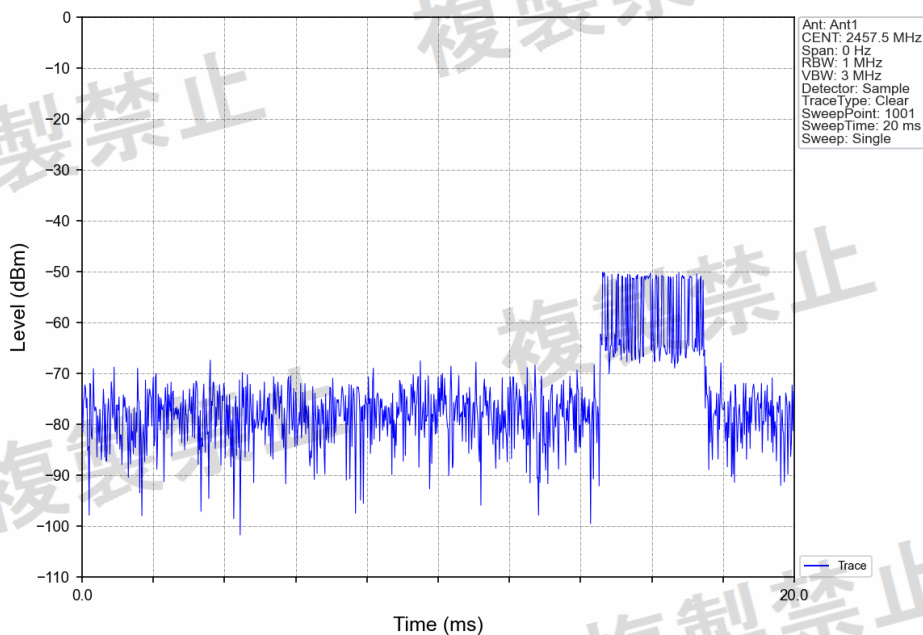
1M_2480MHz_Ant1_NTLV



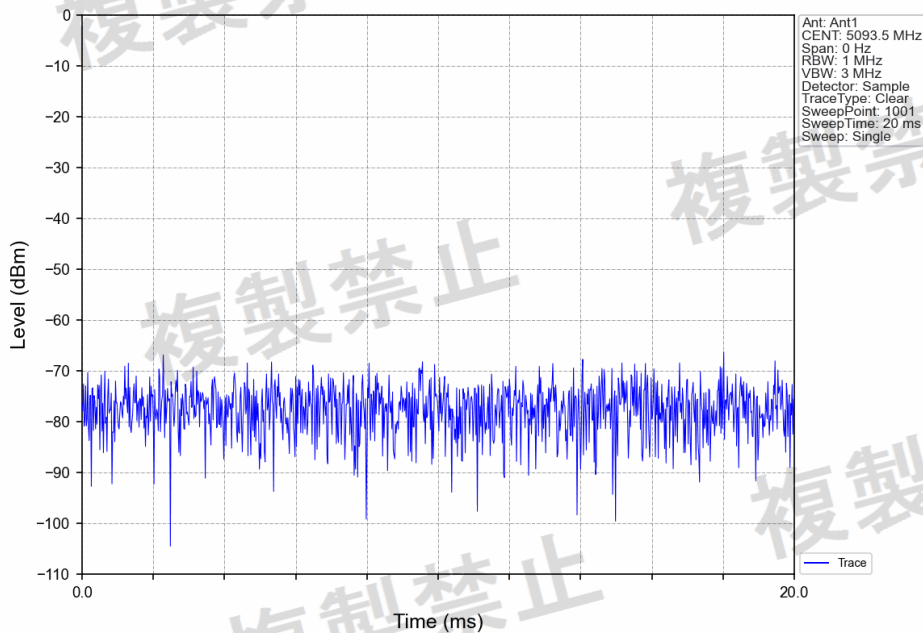
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1M_2480MHz_Ant1_NTLV

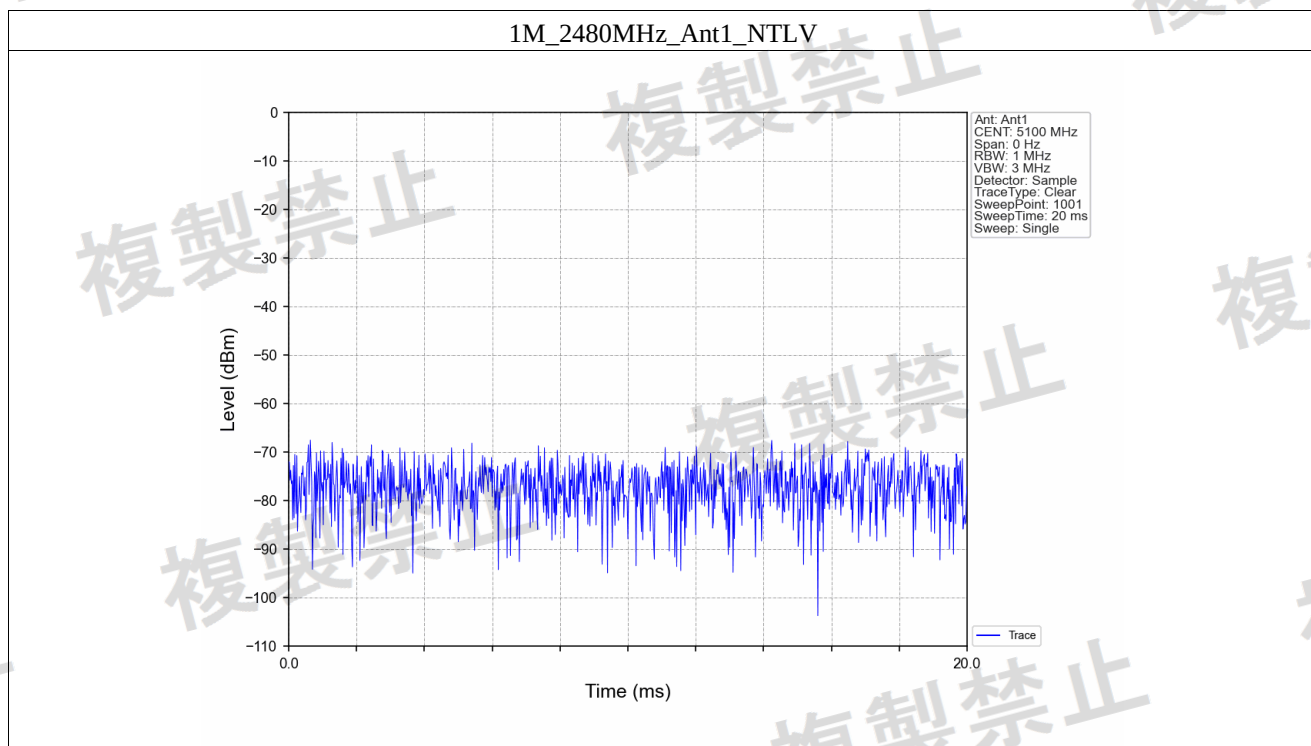


1M_2480MHz_Ant1_NTLV



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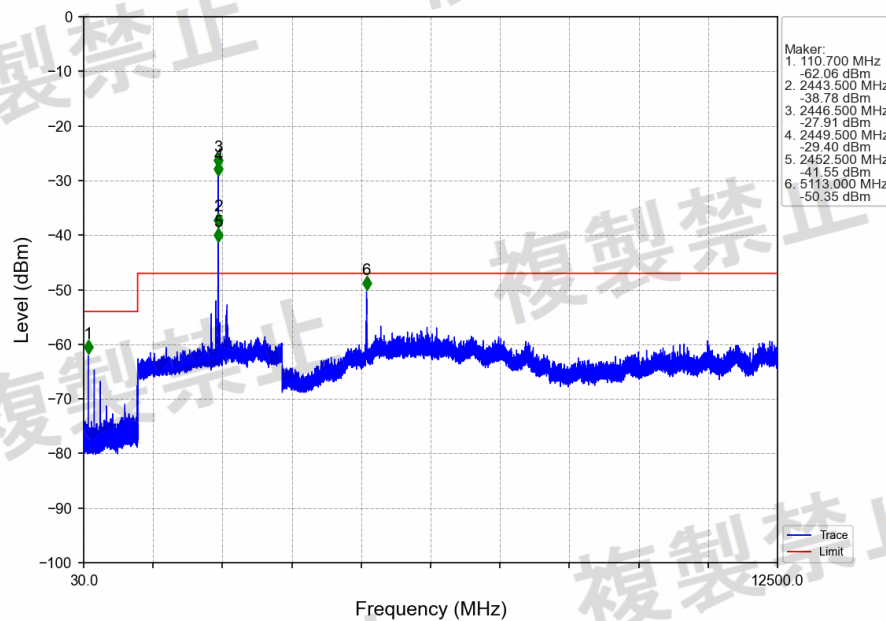


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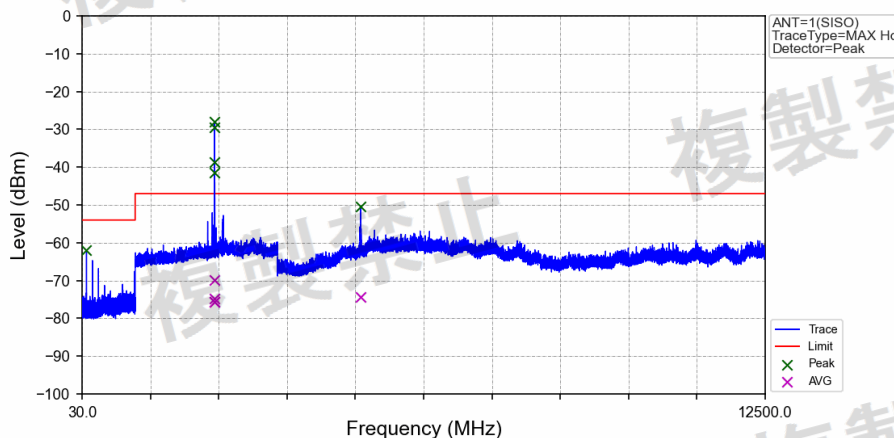
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5.2.3 RxSe_NTHV

1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

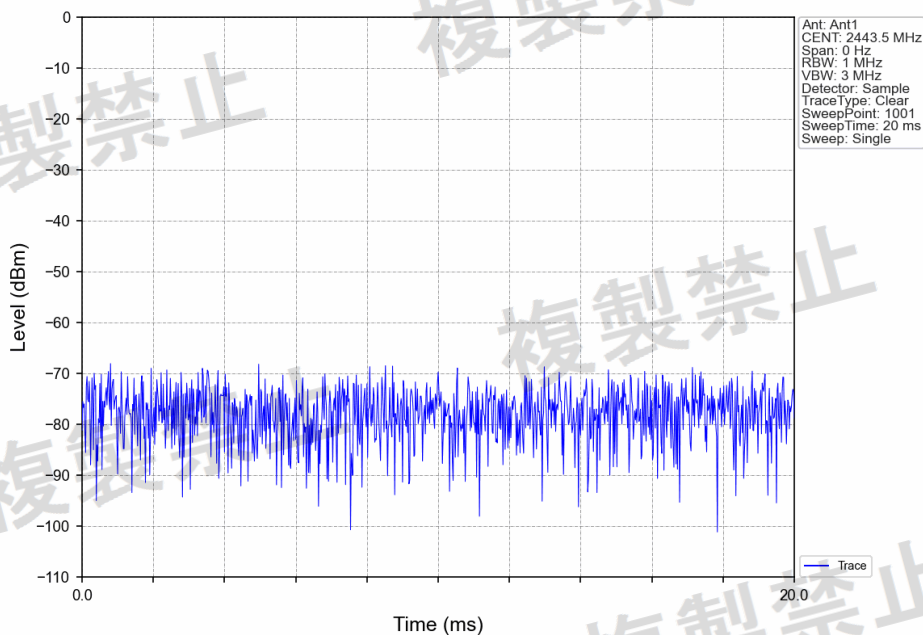


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	110.700	-62.06	/	-54	Pass
1000	12500	1	1	2443.500	-38.78	-75.72	-47	Pass
1000	12500	1	1	2446.500	-27.91	-69.87	-47	Pass
1000	12500	1	1	2449.500	-29.40	-75.71	-47	Pass
1000	12500	1	1	2452.500	-41.55	-74.78	-47	Pass
1000	12500	1	1	5113.000	-50.35	-74.37	-47	Pass

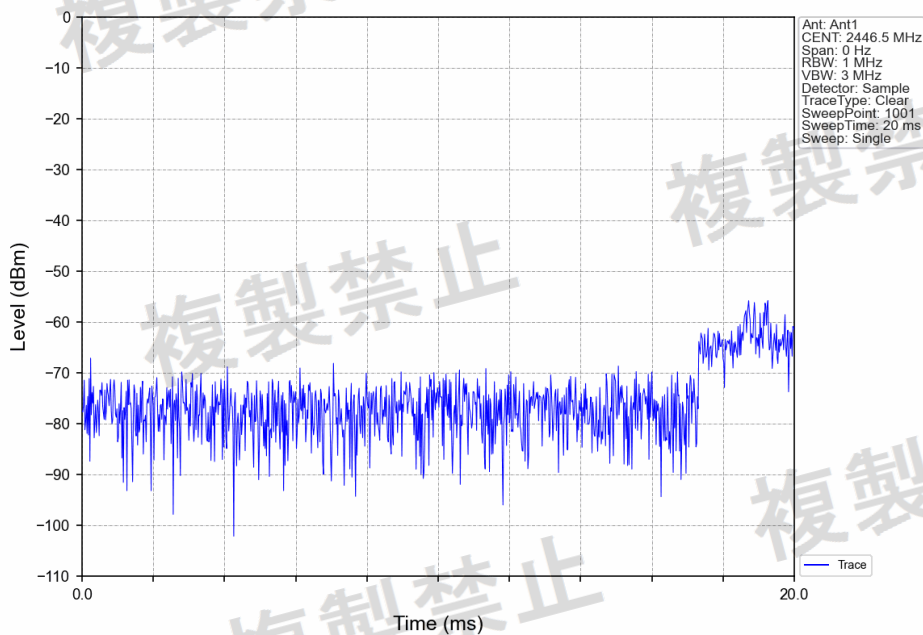
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1M_2402MHz_Ant1_NTHV



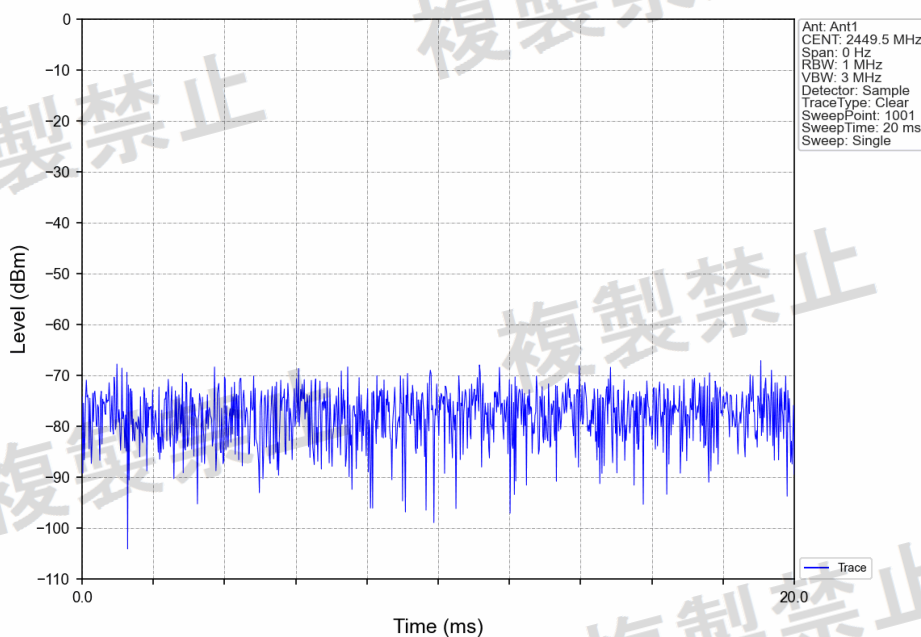
1M_2402MHz_Ant1_NTHV



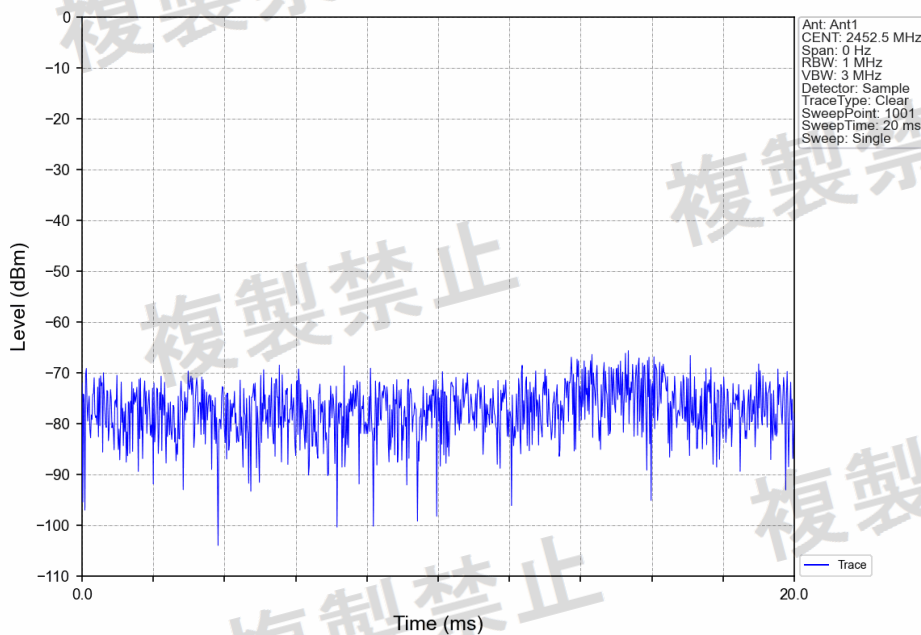
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1M_2402MHz_Ant1_NTHV



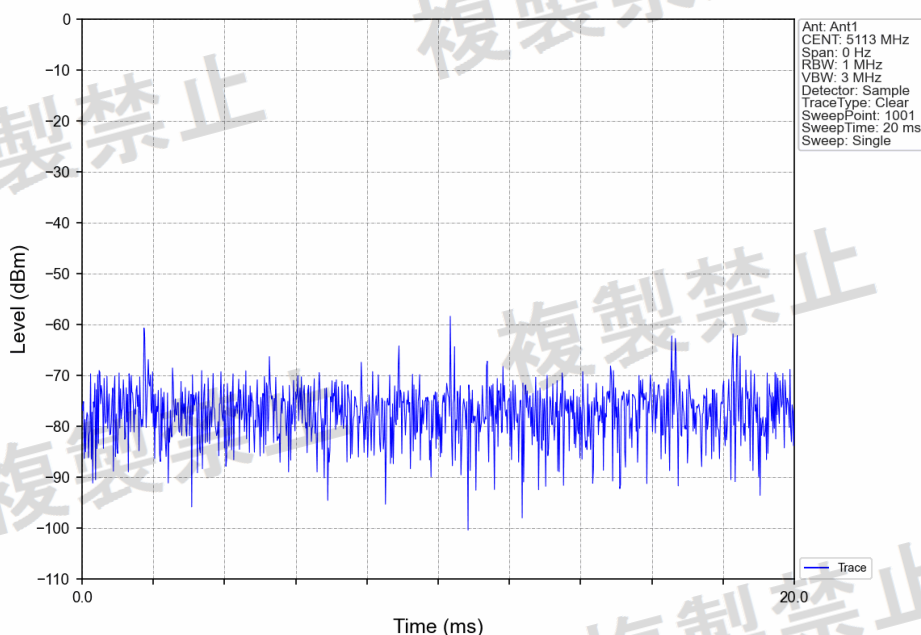
1M_2402MHz_Ant1_NTHV



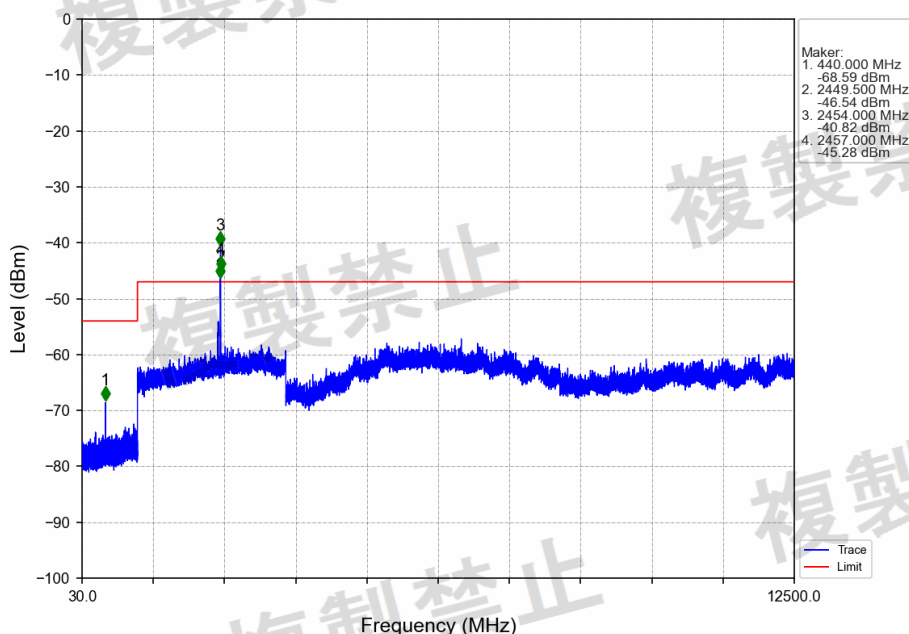
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1M_2402MHz_Ant1_NTHV



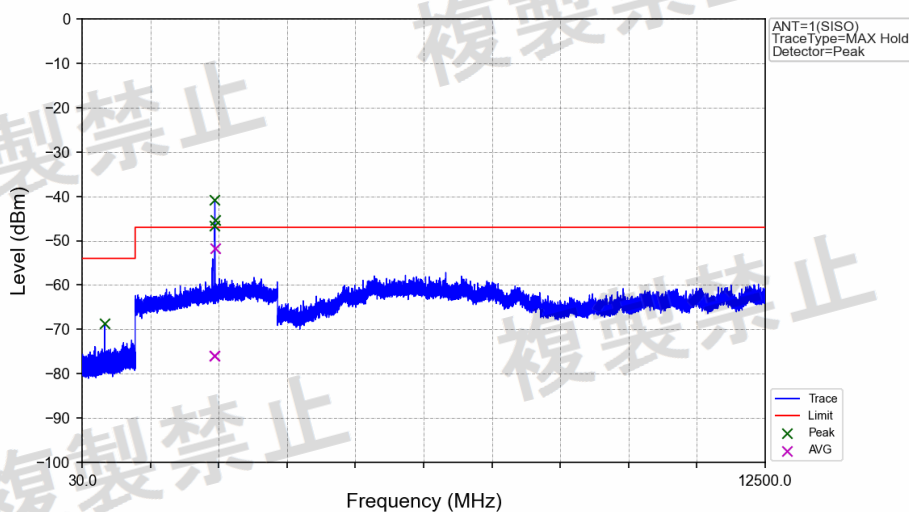
1M_2480MHz_Ant1_NTHV



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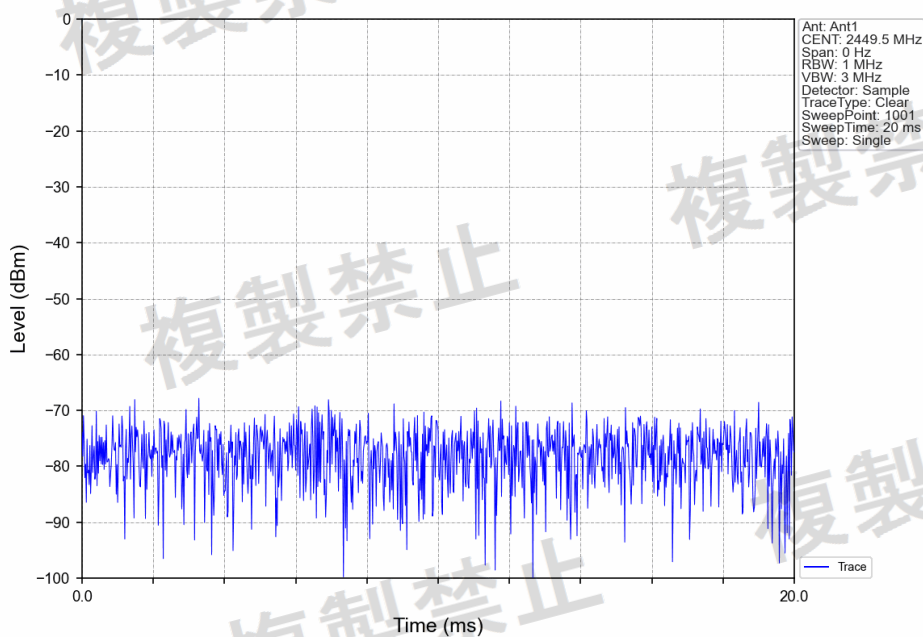
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1M_2480MHz_Ant1_NTHV



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	440.000	-68.59	/	-54	Pass
1000	12500	1	1	2449.500	-46.54	-76.04	-47	Pass
1000	12500	1	1	2454.000	-40.82	-76.01	-47	Pass
1000	12500	1	1	2457.000	-45.28	-51.78	-47	Pass

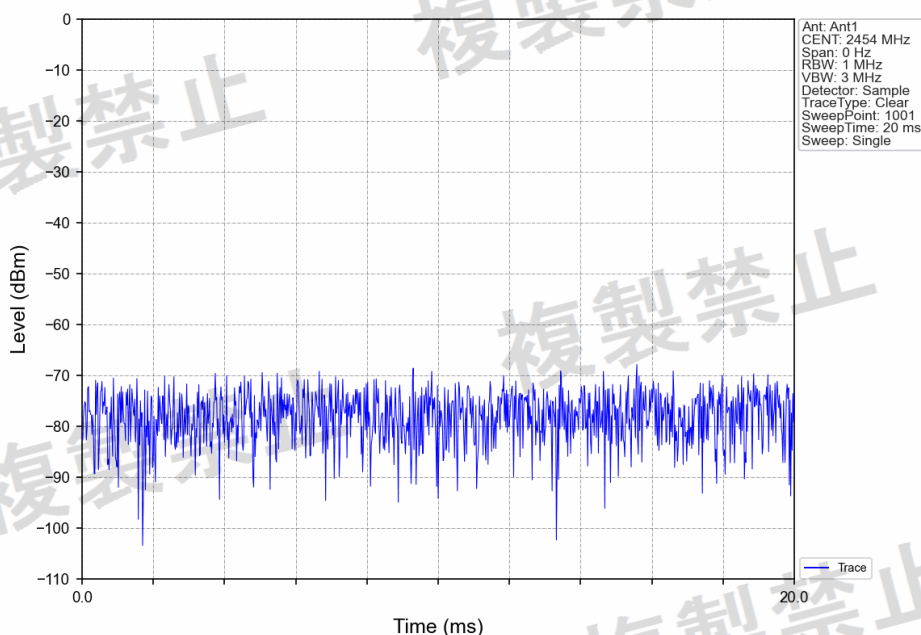
1M_2480MHz_Ant1_NTHV



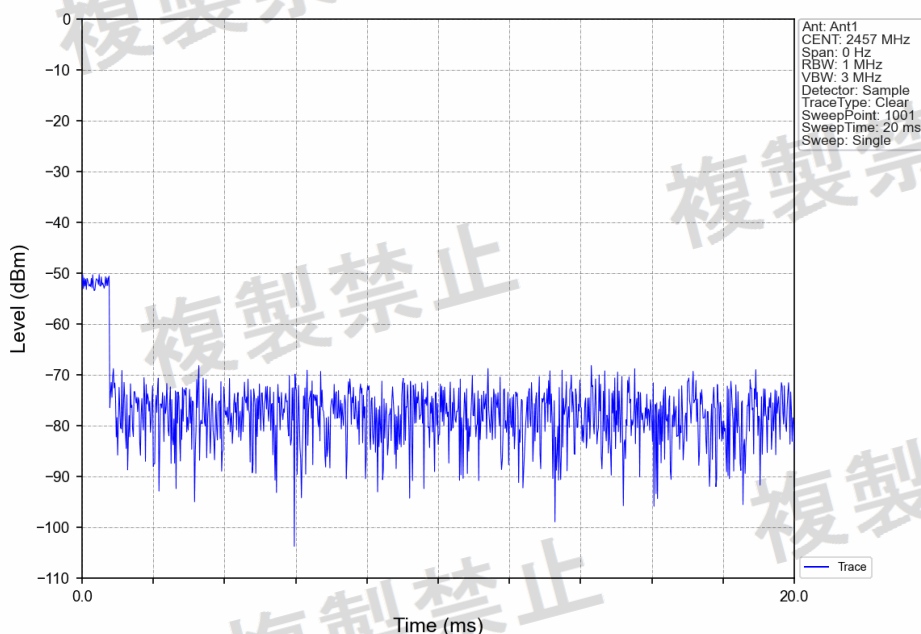
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



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1. Frequency Error (for controller)

1.1 Test Result

1.1.1 Ant1

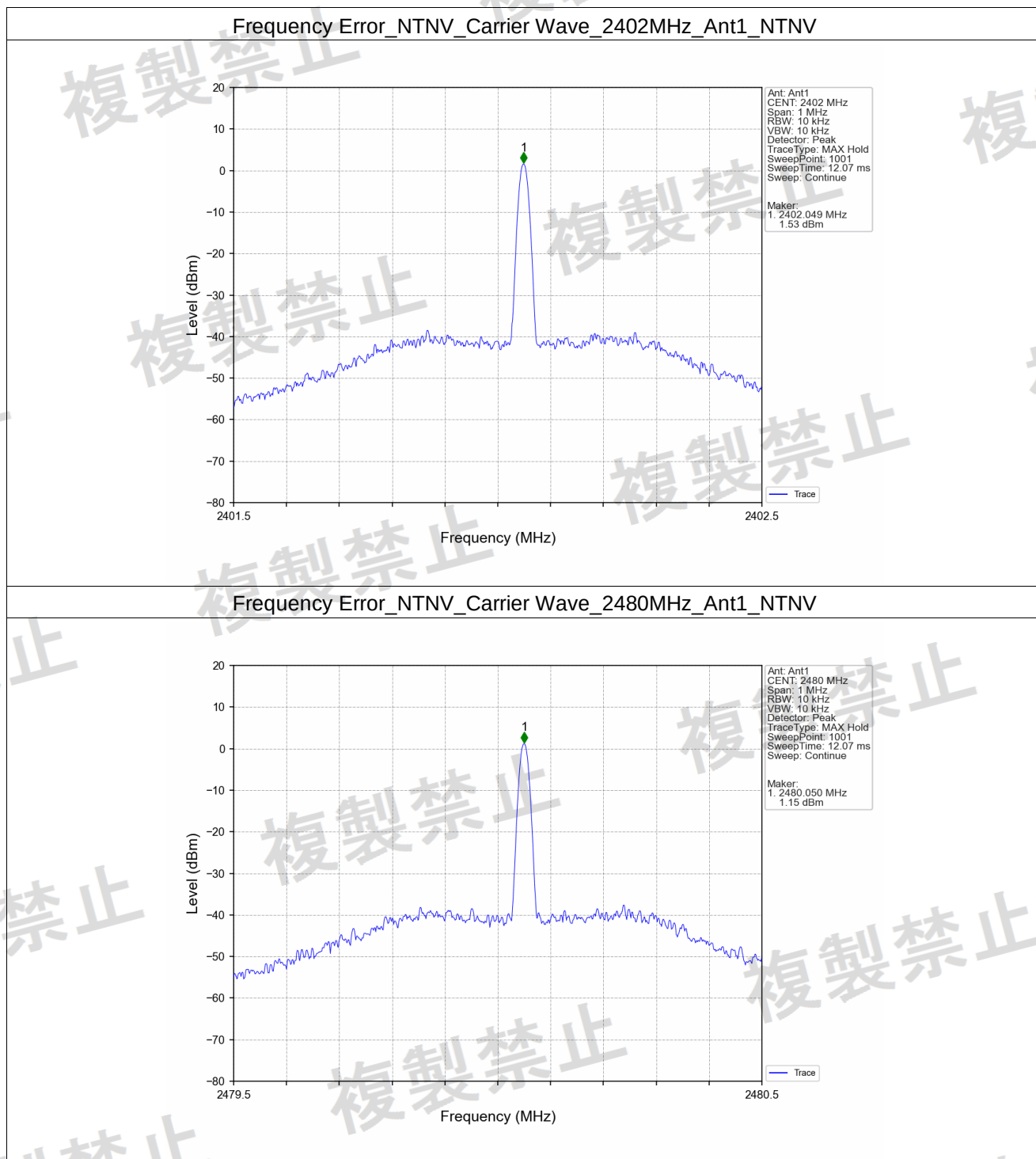
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2402.049	20.40	-50 to 50	Pass
			2480	2480.050	20.16	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	2402.049	20.40	-50 to 50	Pass
			2480	2480.050	20.16	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	2402.049	20.40	-50 to 50	Pass
			2480	2480.050	20.16	-50 to 50	Pass

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1.2 Test Graph

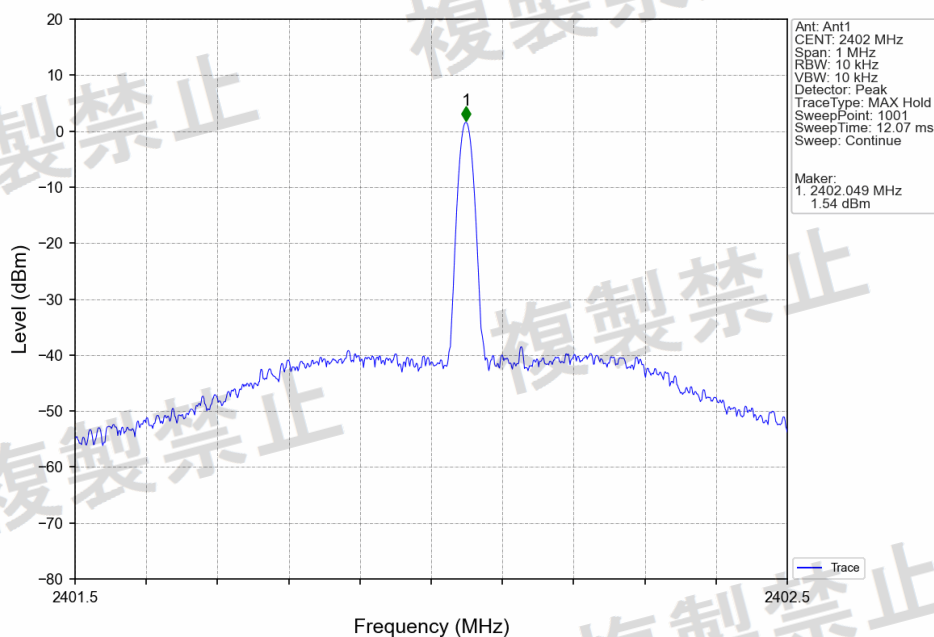
1.2.1 Ant1



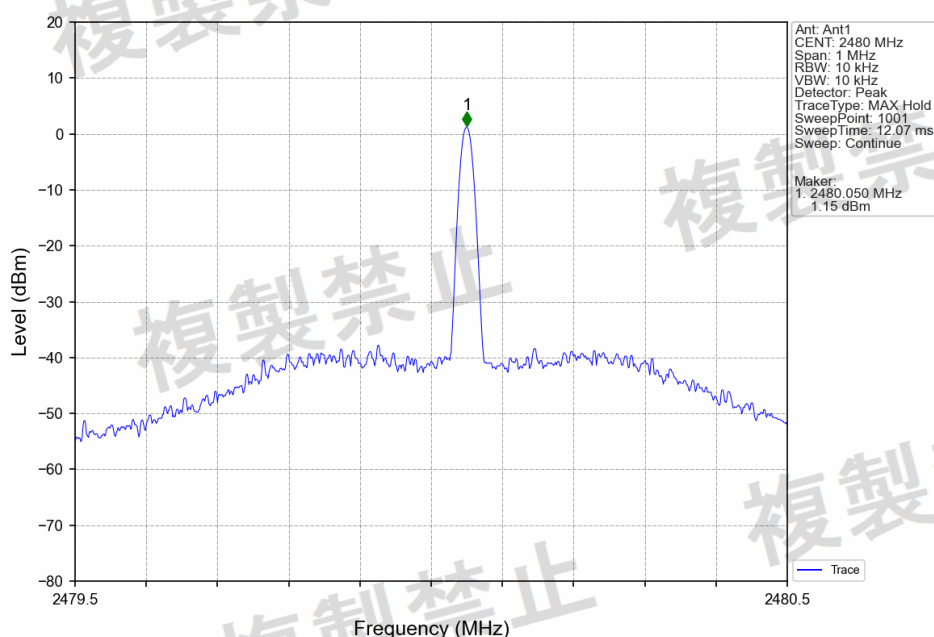
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Frequency Error_NTLV_Carrier Wave_2402MHz_Ant1_NTLV



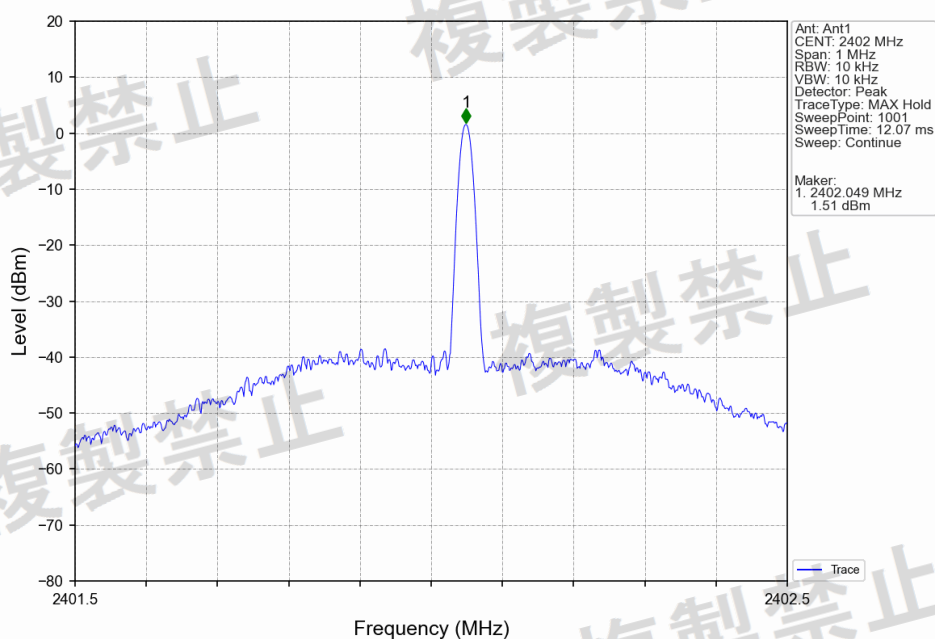
Frequency Error_NTLV_Carrier Wave_2480MHz_Ant1_NTLV



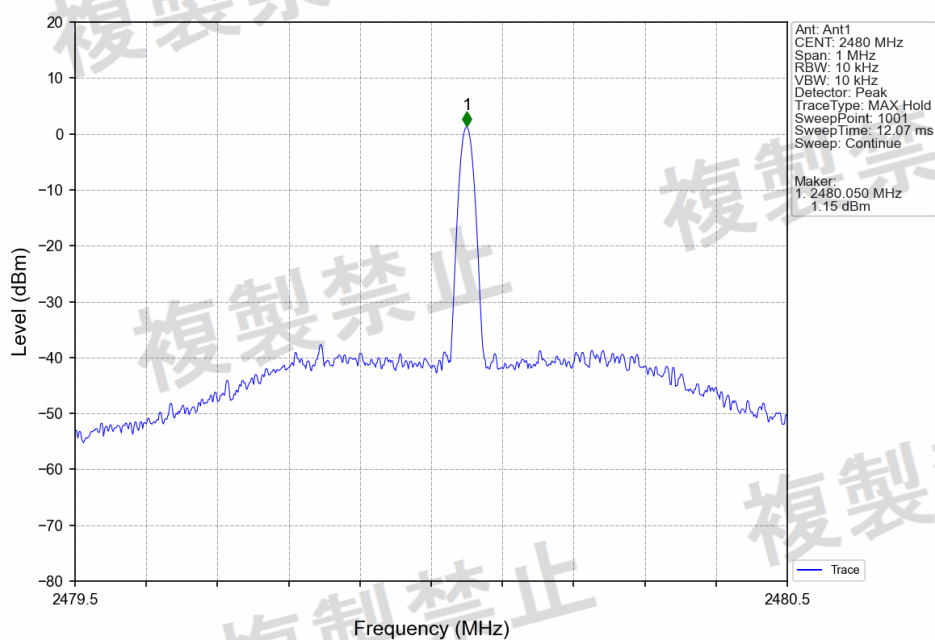
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Frequency Error_NTHV_Carrier Wave_2402MHz_Ant1_NTHV



Frequency Error_NTHV_Carrier Wave_2480MHz_Ant1_NTHV



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2. Occupied Bandwidth (for controller)

2.1 Test Result

2.1.1 OBW

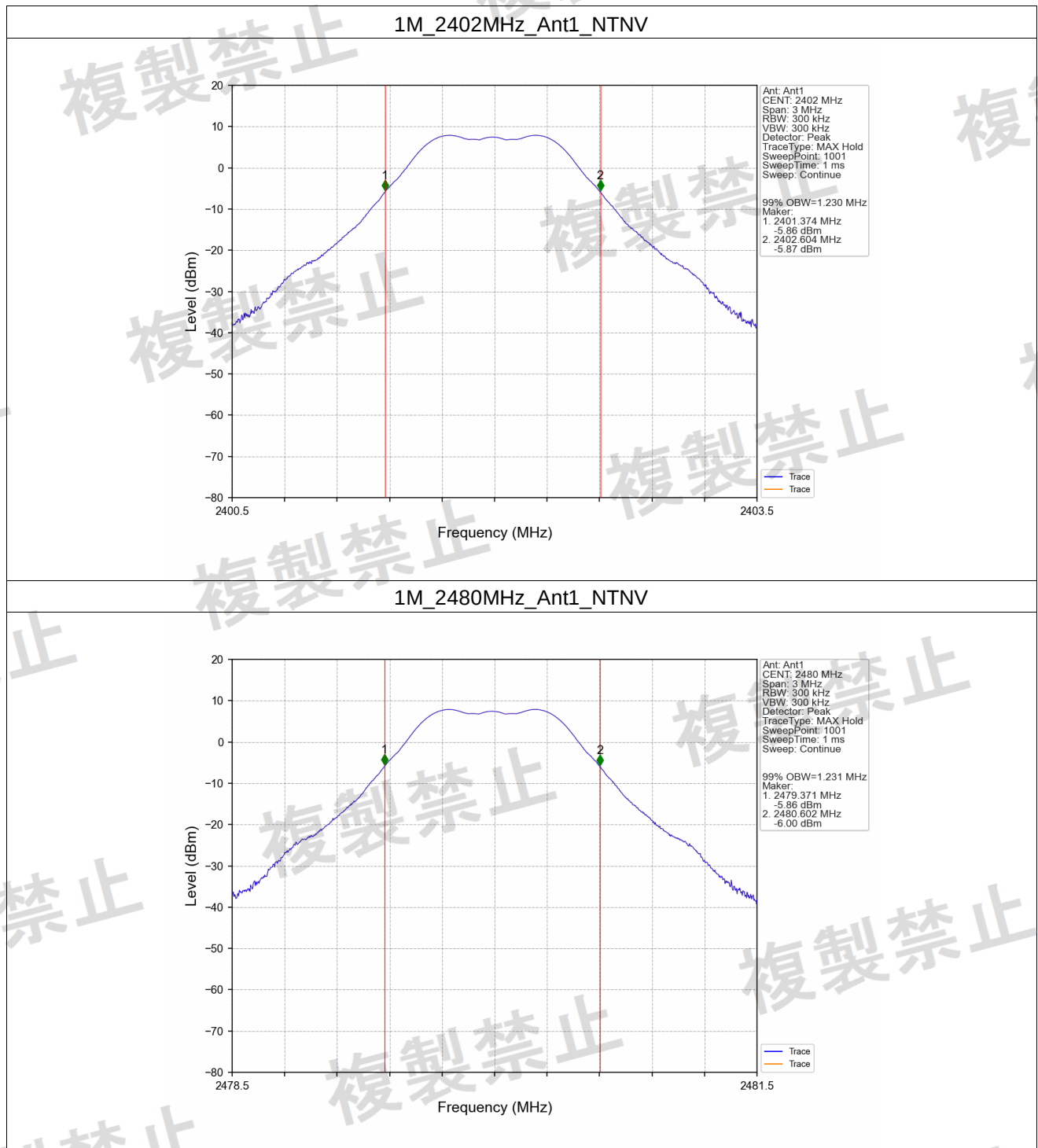
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	1.230	<=26	Pass
			2480	1.231	<=26	Pass
NTLV	1M	SISO	2402	1.231	<=26	Pass
			2480	1.230	<=26	Pass
NTHV	1M	SISO	2402	1.230	<=26	Pass
			2480	1.231	<=26	Pass

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2.2 Test Graph

2.2.1 OBW

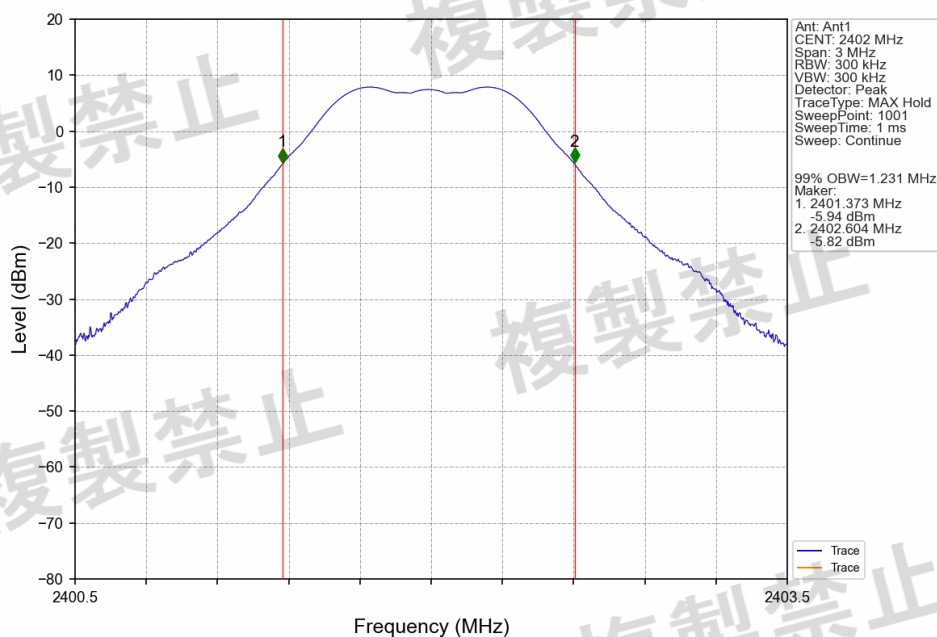


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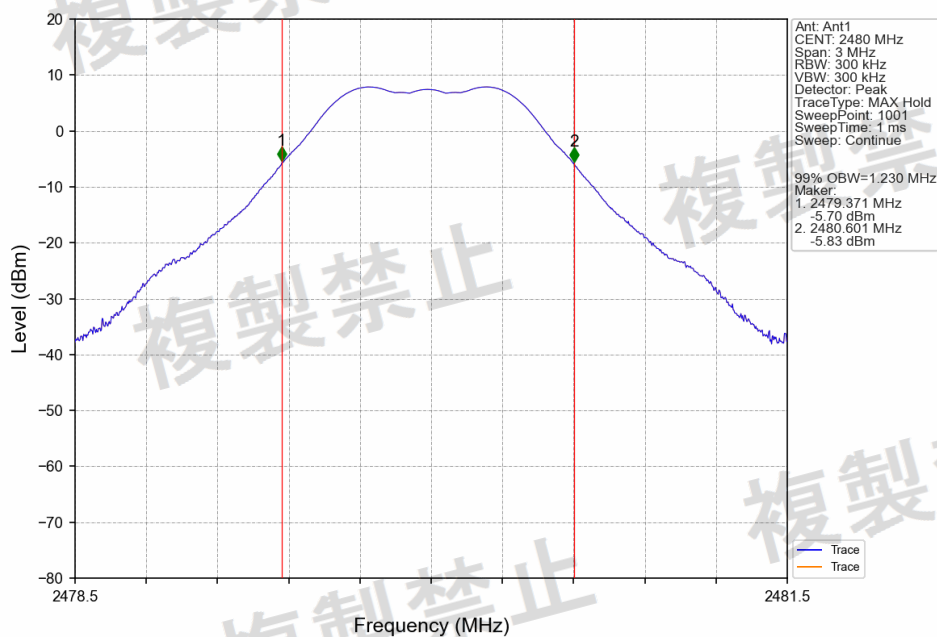
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1M_2402MHz_Ant1_NTLV



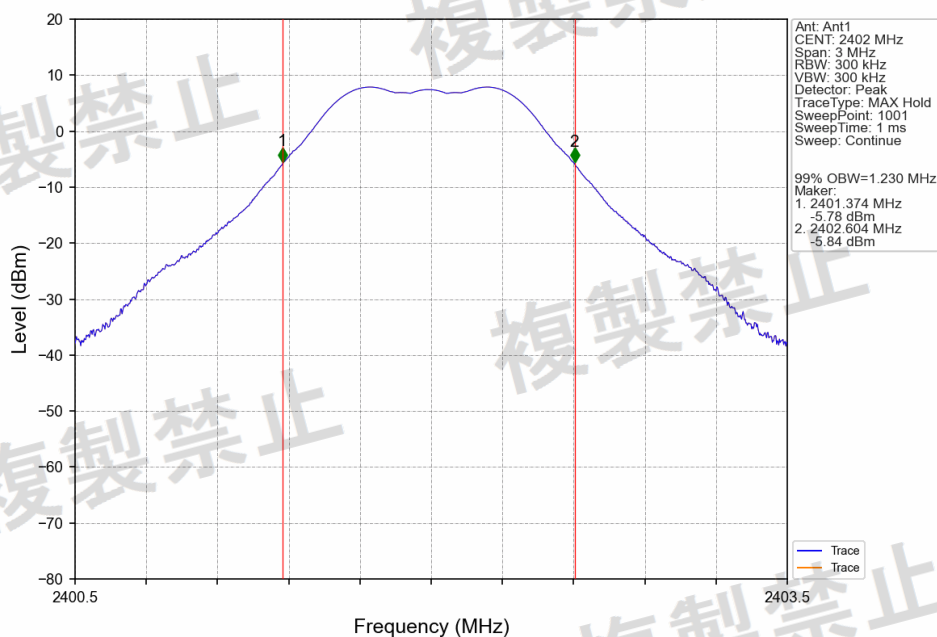
1M_2480MHz_Ant1_NTLV



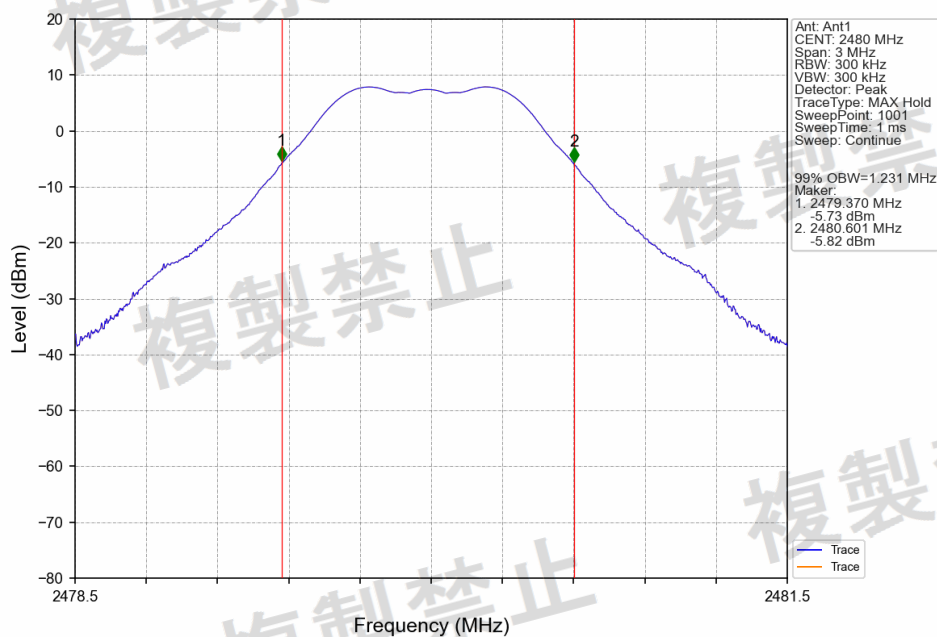
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1M_2402MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



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3. Antenna Power (for controller)

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	1M	SISO	2402	1	5.289	<=10.00	5.300	-0.21	<=20	Pass
			2480	1	5.263	<=10.00	5.300	-0.70	<=20	Pass
NTLV	1M	SISO	2402	1	5.279	<=10.00	5.300	-0.40	<=20	Pass
			2480	1	5.296	<=10.00	5.300	-0.08	<=20	Pass
NTHV	1M	SISO	2402	1	5.254	<=10.00	5.300	-0.87	<=20	Pass
			2480	1	5.223	<=10.00	5.200	0.44	<=20	Pass

ENV	Mode	TX Type	Frequency (MHz)	Antenna Power (dBm)	E.I.R.P (dBm)		Verdict
				ANT1	ANT1	Limit	
NTNV	1M	SISO	2402	7.23	8.23	<=12.14	Pass
			2480	7.21	8.21	<=12.14	Pass
NTLV	1M		2402	7.23	8.23	<=12.14	Pass
			2480	7.24	8.24	<=12.14	Pass
NTHV	1M		2402	7.20	8.20	<=12.14	Pass
			2480	7.18	8.18	<=12.14	Pass

Note1: Antenna Gain: Ant1: 1 dBi

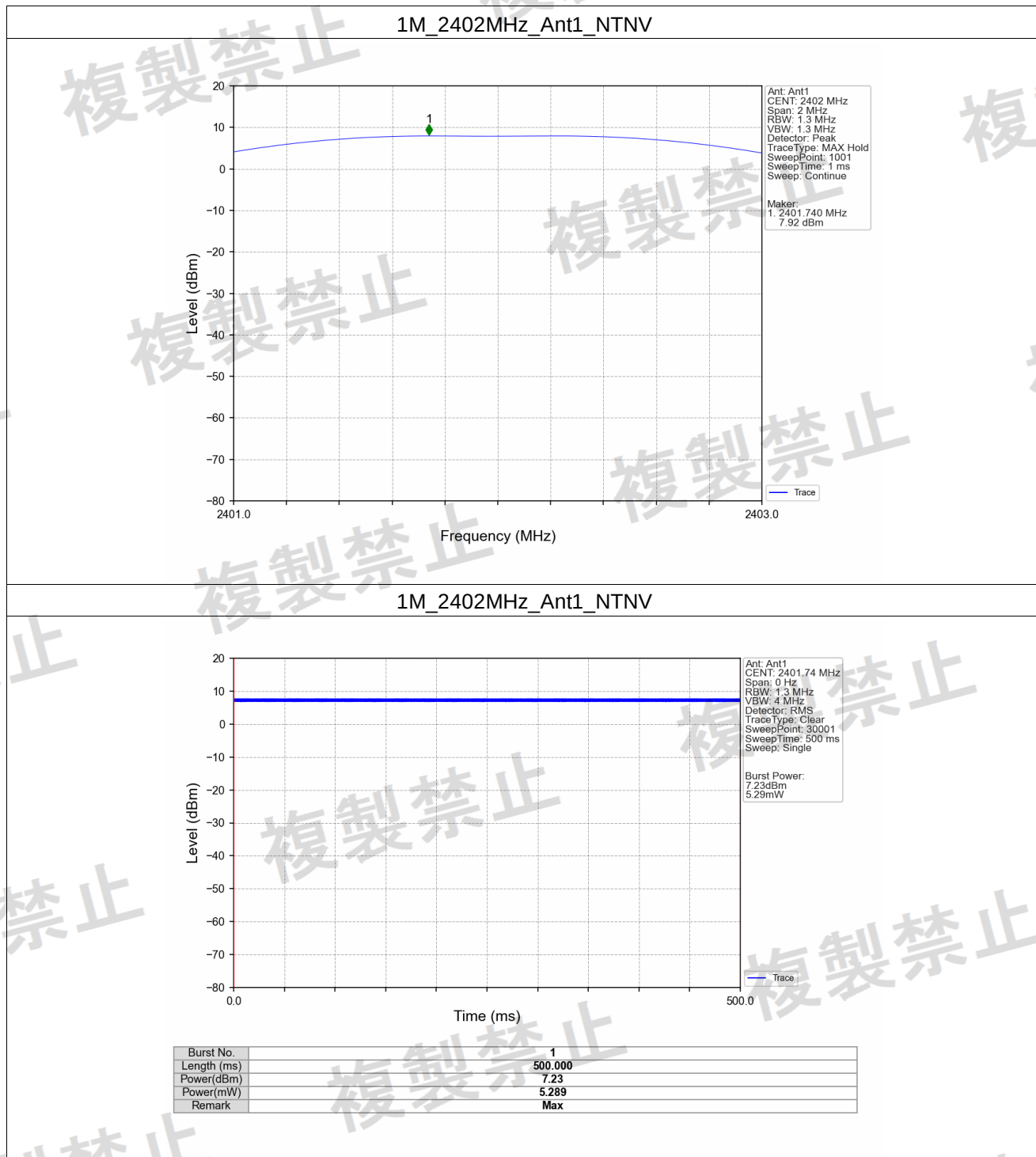
Note2: E.I.R.P = Antenna Power + Antenna Gain

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3.2 Test Graph

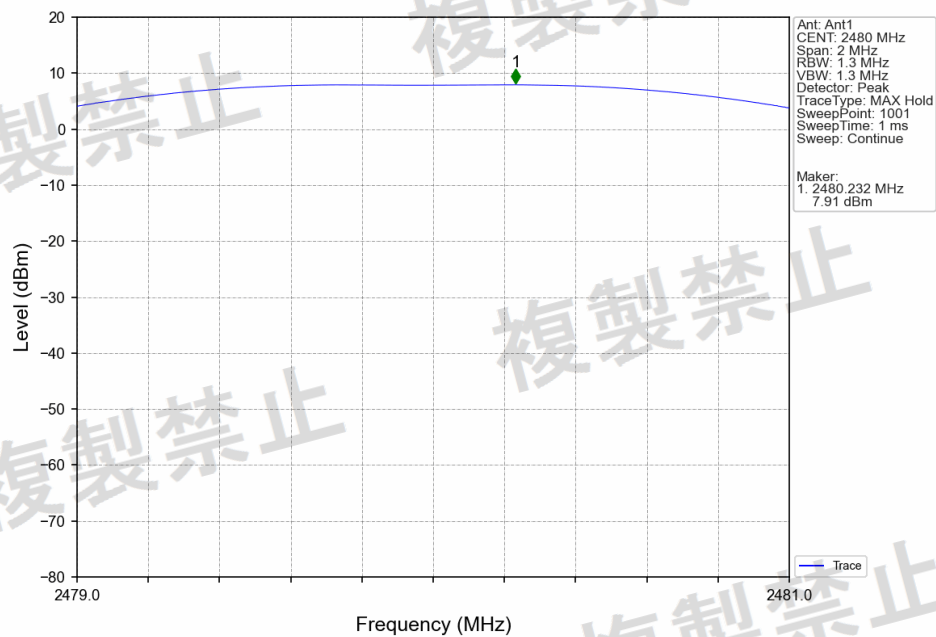
3.2.1 Power



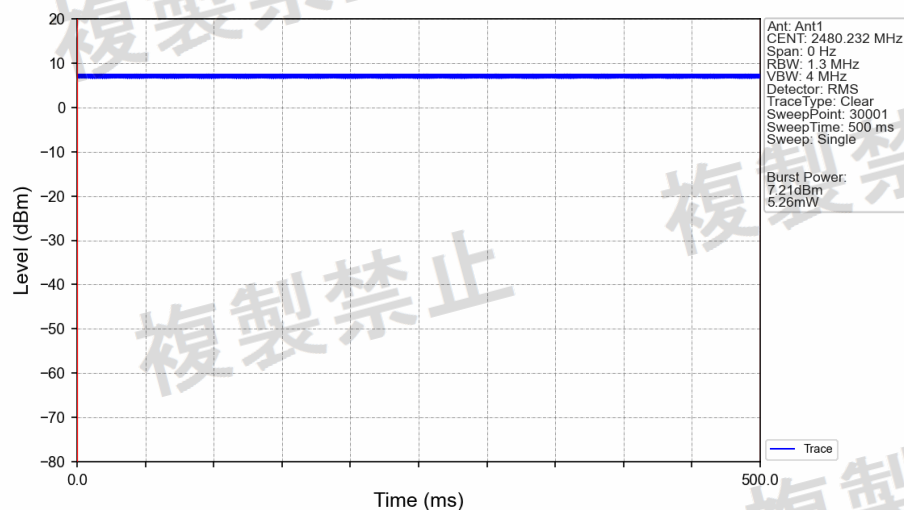
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

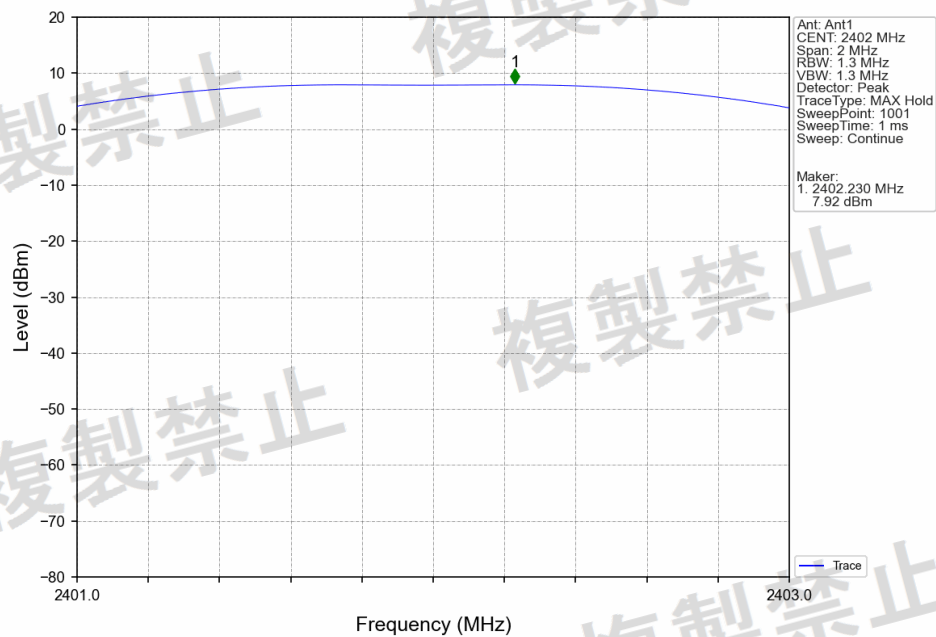


Burst No.	1
Length (ms)	500.000
Power(dBm)	7.21
Power(mW)	5.263
Remark	Max

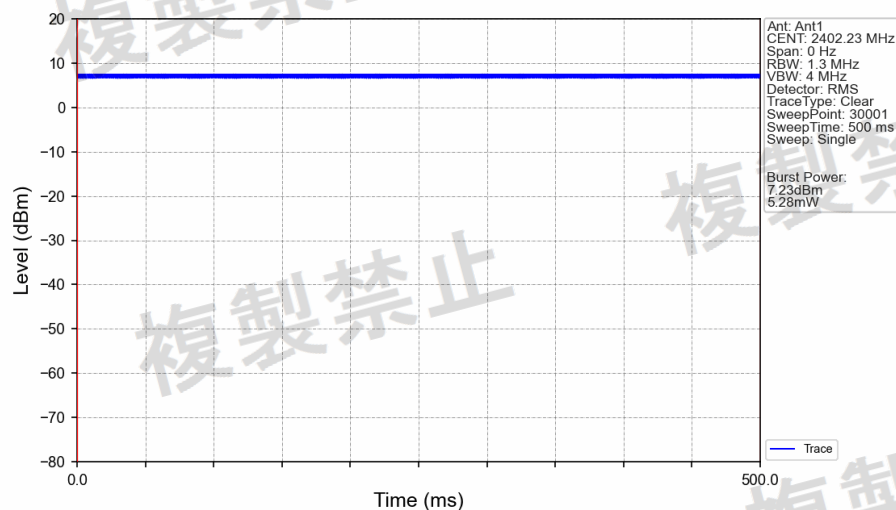
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1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

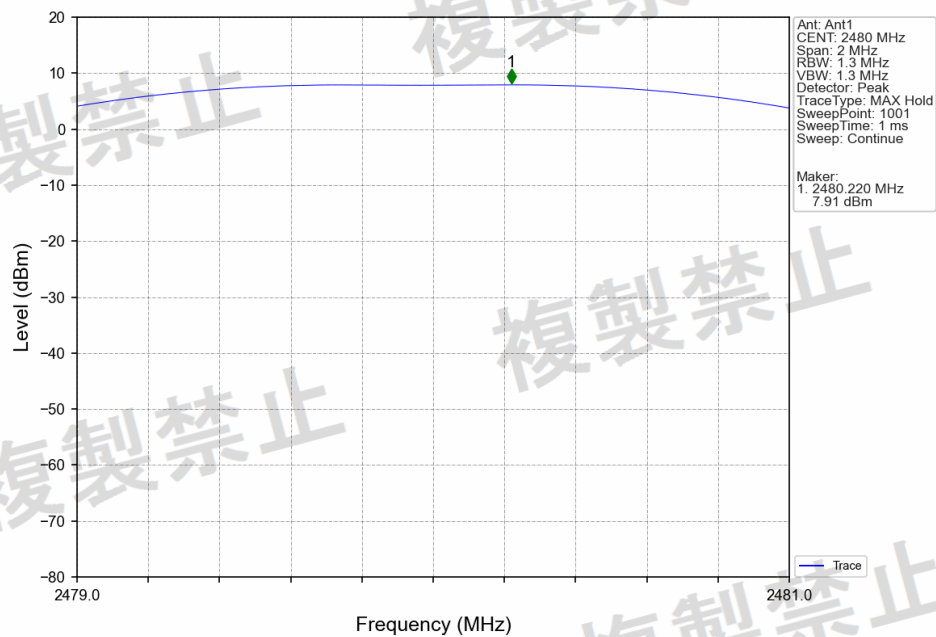


Burst No.	1
Length (ms)	500.000
Power(dBm)	7.23
Power(mW)	5.279
Remark	Max

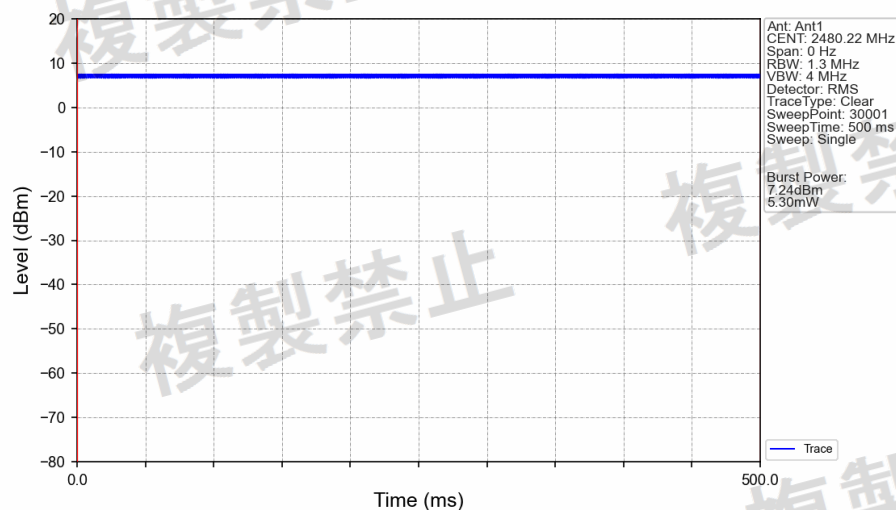
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1M_2480MHz_Ant1_NTLV



1M_2480MHz_Ant1_NTLV

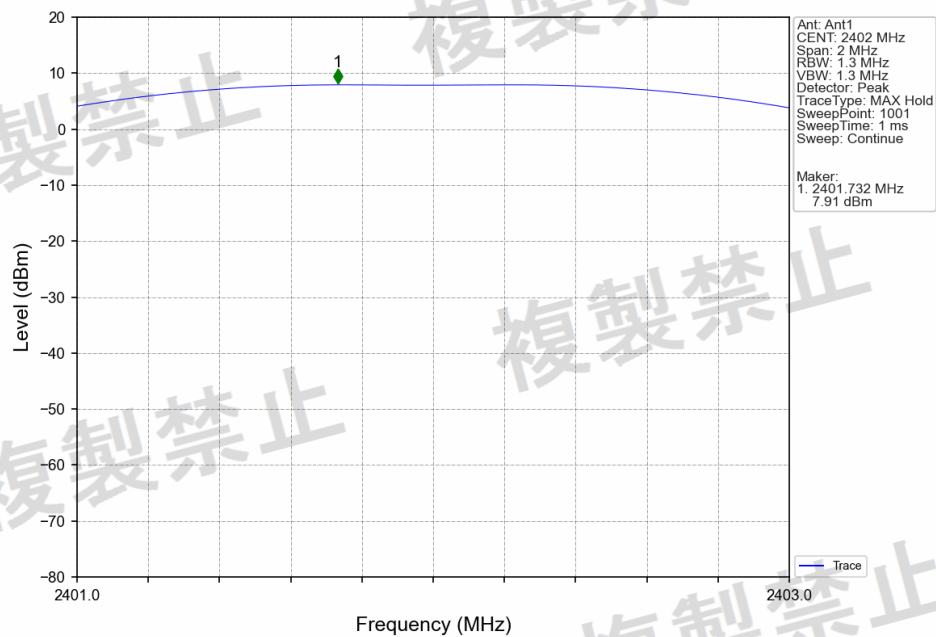


Burst No.	1
Length (ms)	500.000
Power(dBm)	7.24
Power(mW)	5.296
Remark	Max

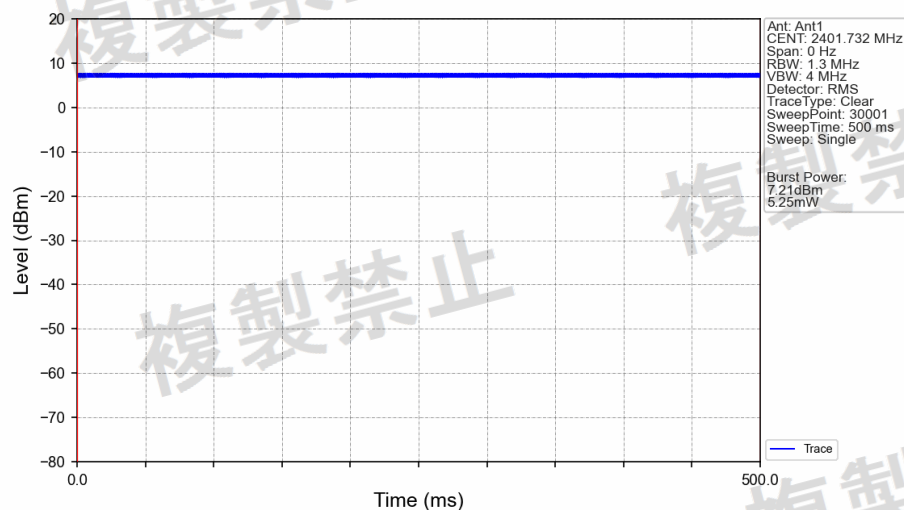
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1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

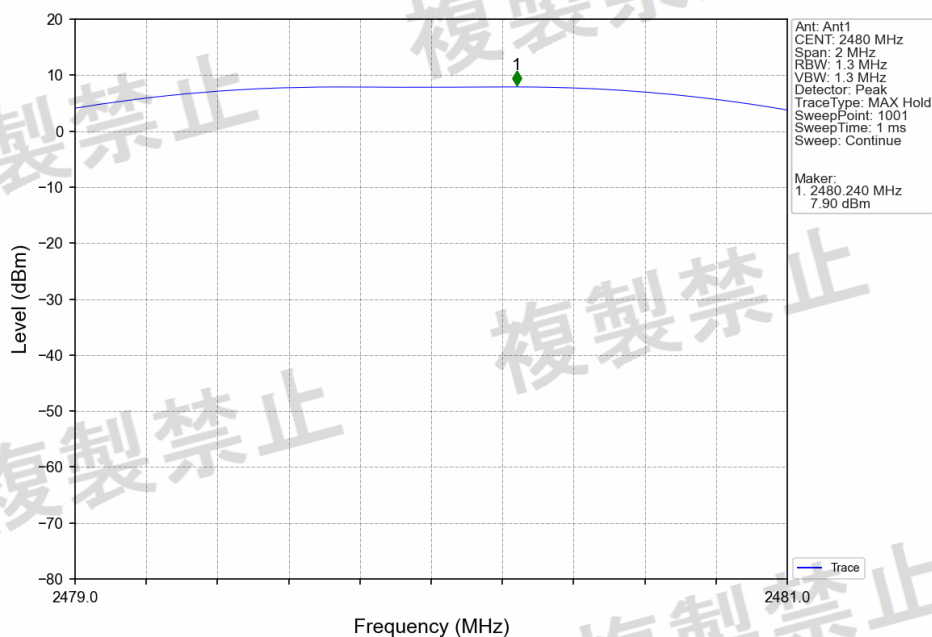


Burst No.	1
Length (ms)	500.000
Power(dBm)	7.21
Power(mW)	5.254
Remark	Max

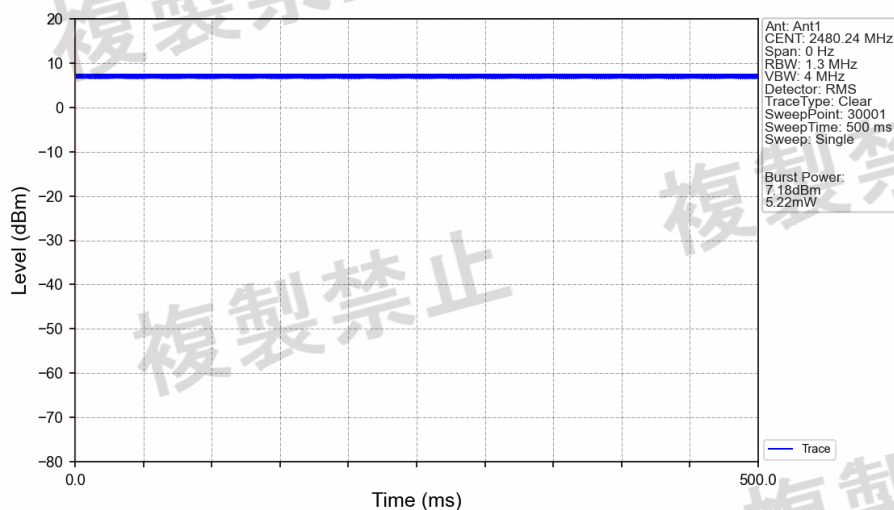
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



Burst No.	1
Length (ms)	500.000
Power(dBm)	7.18
Power(mW)	5.223
Remark	Max

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4. Spurious Emission Intensity (for controller)

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)		
1M	SISO	2402	1	30	2387	2122.5	-45.09	0.031	/	/	2.5	Pass
				2387	2400	2399.987	-27.61	1.734	/	/	25	Pass
				2483.5	2496.5	2485.307	-48.27	0.015	/	/	25	Pass
				2496.5	12500	6358	-42.19	0.060	/	/	2.5	Pass
		2480	1	30	2387	111	-44.94	0.032	/	/	2.5	Pass
				2387	2400	2389.015	-48.36	0.015	/	/	25	Pass
				2483.5	2496.5	2483.643	-39.29	0.118	/	/	25	Pass
				2496.5	12500	5095.5	-31.70	0.676	/	/	2.5	Pass

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)		
1M	SISO	2402	1	30	2387	111	-44.80	0.033	/	/	2.5	Pass
				2387	2400	2399.987	-26.80	2.089	/	/	25	Pass
				2483.5	2496.5	2487.543	-48.11	0.015	/	/	25	Pass
				2496.5	12500	5740	-36.89	0.205	/	/	2.5	Pass
		2480	1	30	2387	2375	-45.19	0.030	/	/	2.5	Pass
				2387	2400	2392.746	-48.41	0.014	/	/	25	Pass
				2483.5	2496.5	2483.838	-39.53	0.111	/	/	25	Pass
				2496.5	12500	6051	-41.22	0.076	/	/	2.5	Pass

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4.1.3 TxSe_NTHV

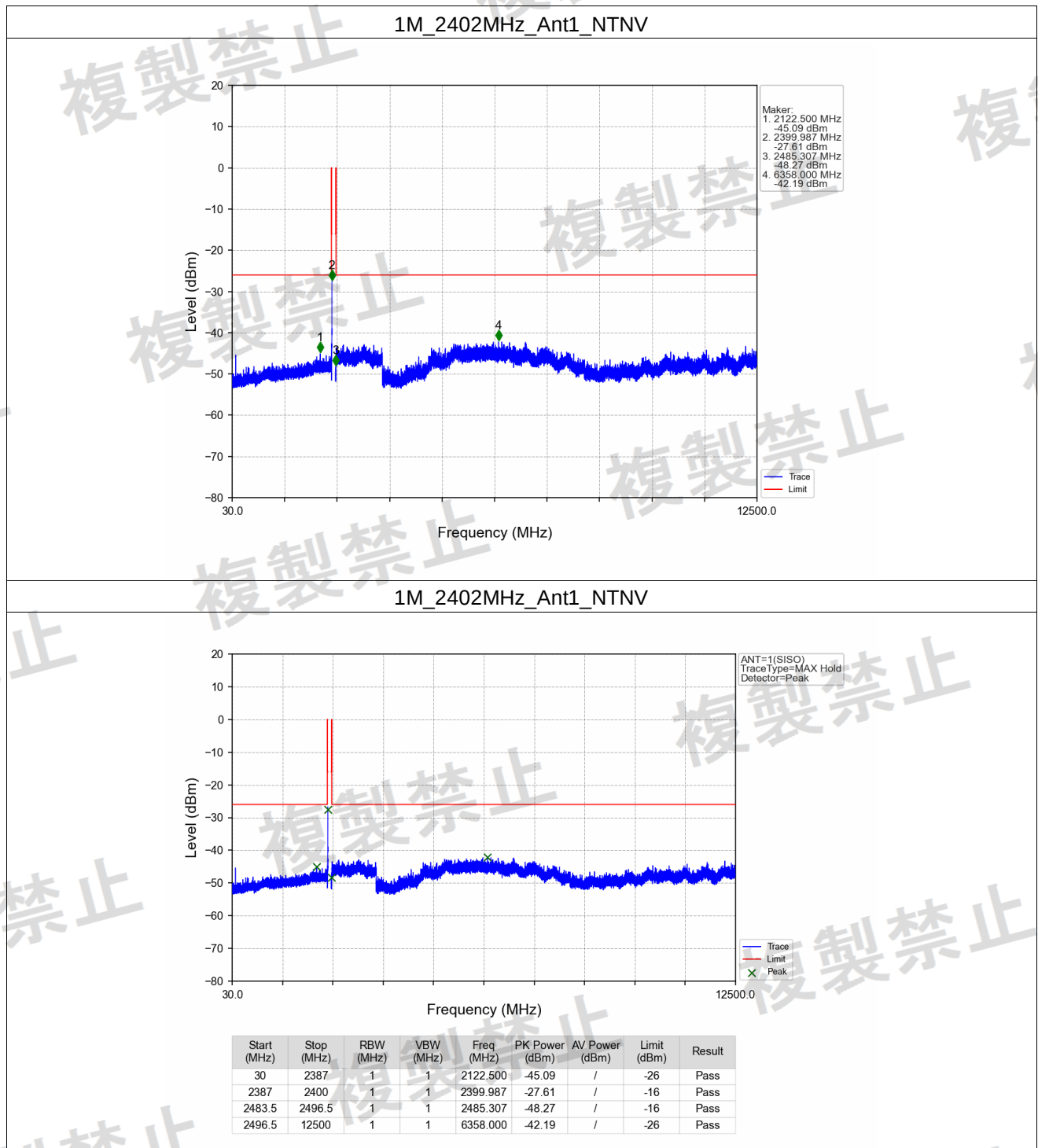
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	110.5	-45.64	0.027	/	/	2.5	Pass
				2387	2400	2399.987	-27.76	1.675	/	/	25	Pass
				2483.5	2496.5	2484.722	-47.67	0.017	/	/	25	Pass
				2496.5	12500	6966	-42.17	0.061	/	/	2.5	Pass
		2480	1	30	2387	110.5	-44.88	0.033	/	/	2.5	Pass
				2387	2400	2389.756	-48.33	0.015	/	/	25	Pass
				2483.5	2496.5	2483.773	-39.05	0.124	/	/	25	Pass
				2496.5	12500	6031	-41.80	0.066	/	/	2.5	Pass

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4.2 Test Graph

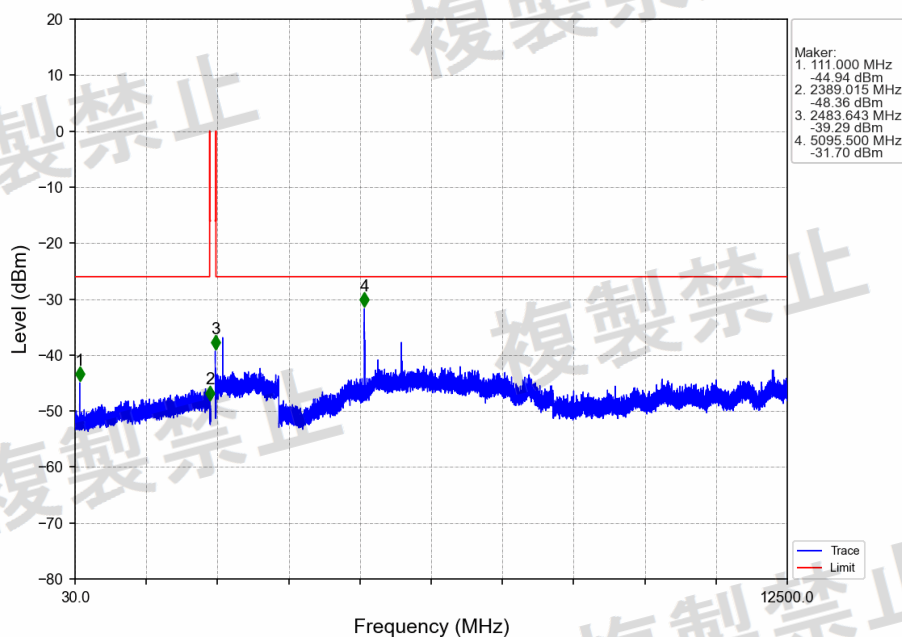
4.2.1 TxSe_NTNV



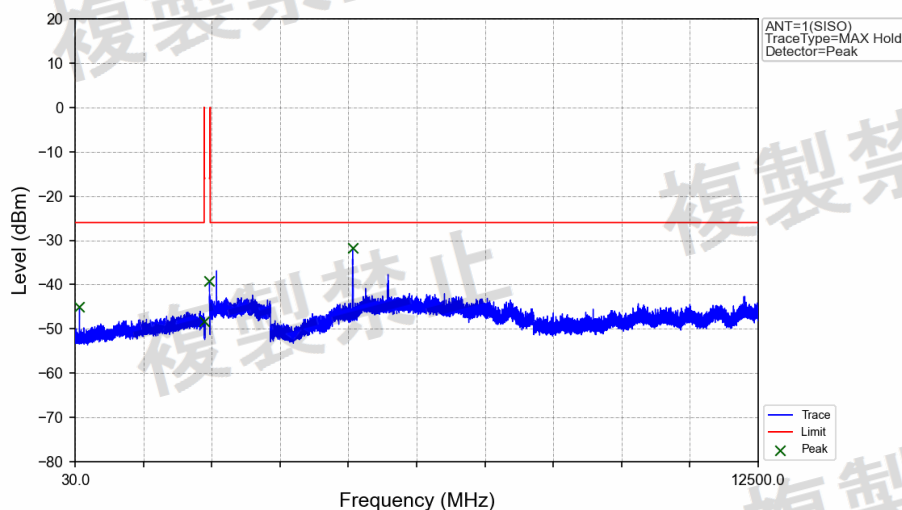
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV



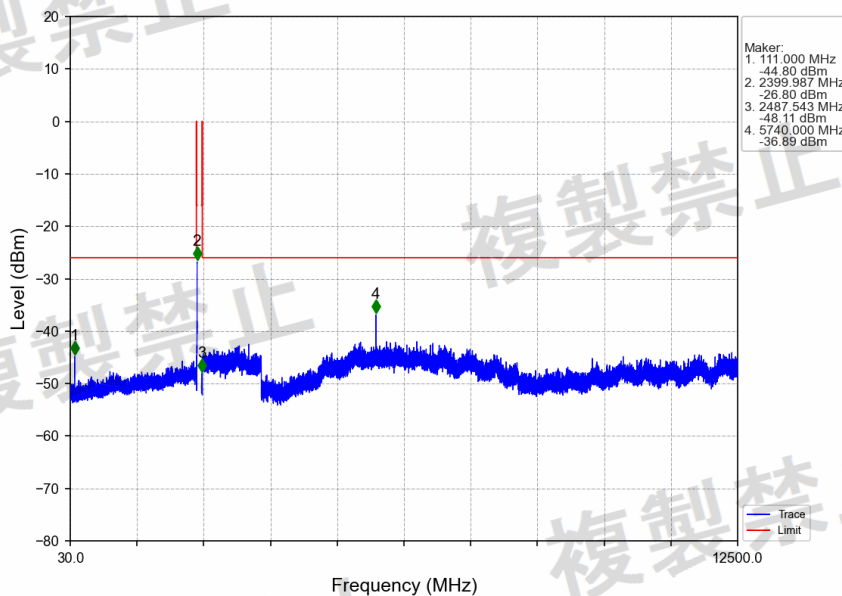
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	111.000	-44.94	/	-26	Pass
2387	2400	1	1	2389.015	-48.36	/	-16	Pass
2483.5	2496.5	1	1	2483.643	-39.29	/	-16	Pass
2496.5	12500	1	1	5095.500	-31.70	/	-26	Pass

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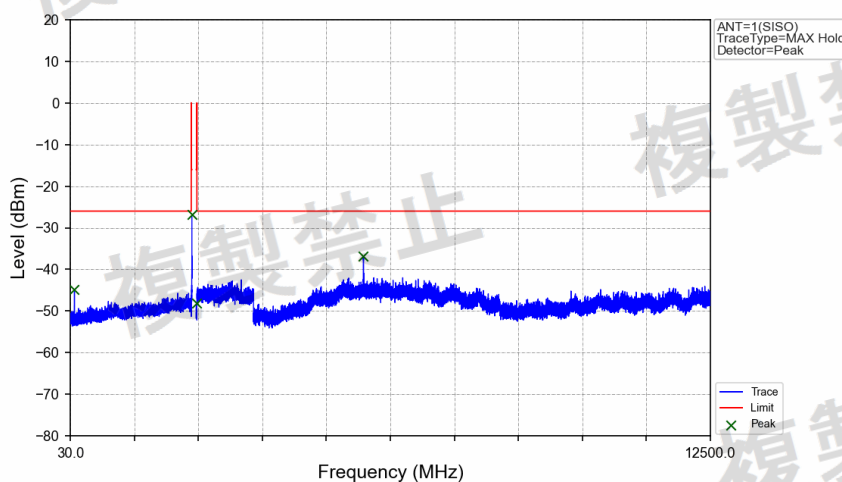
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

4.2.2 TxSe_NTLV

1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

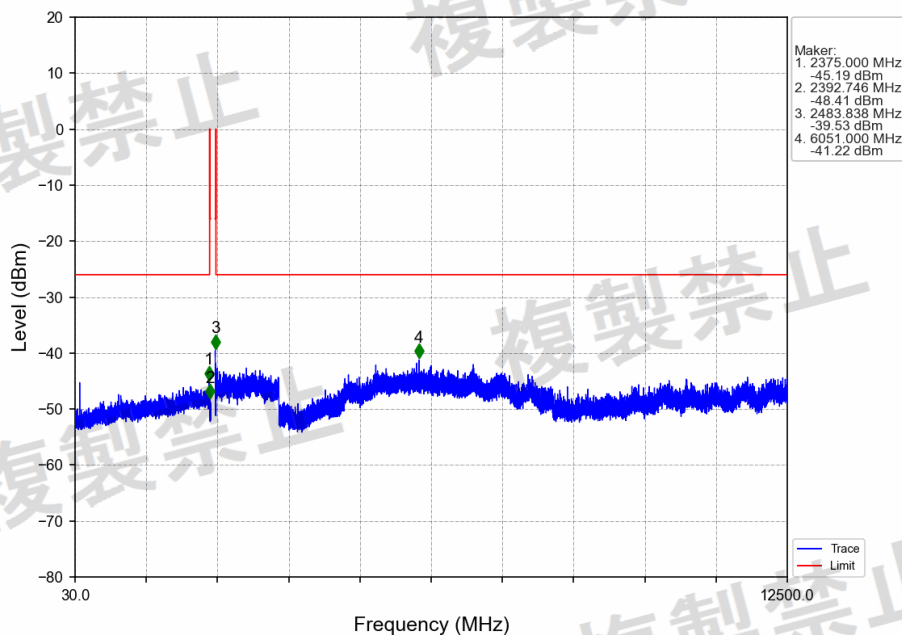


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	111.000	-44.80	/	-26	Pass
2387	2400	1	1	2399.987	-26.80	/	-16	Pass
2483.5	2496.5	1	1	2487.543	-48.11	/	-16	Pass
2496.5	12500	1	1	5740.000	-36.89	/	-26	Pass

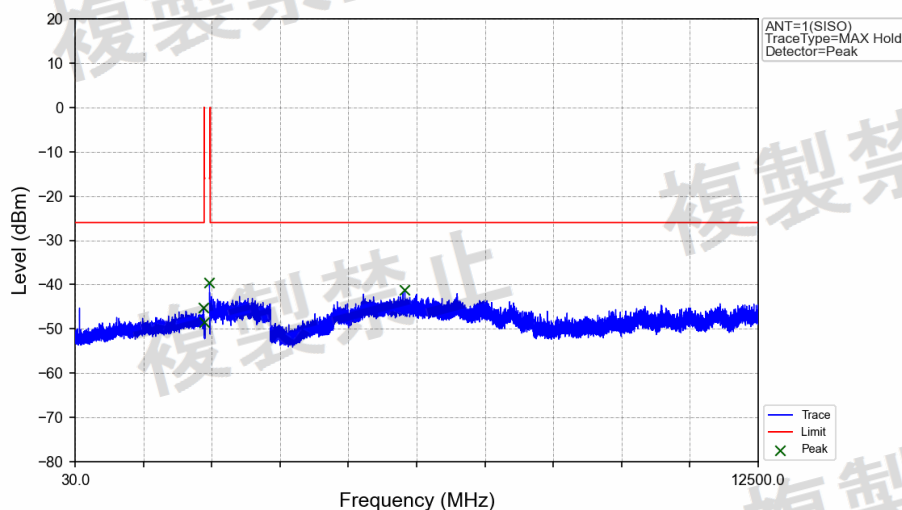
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1M_2480MHz_Ant1_NTLV



1M_2480MHz_Ant1_NTLV



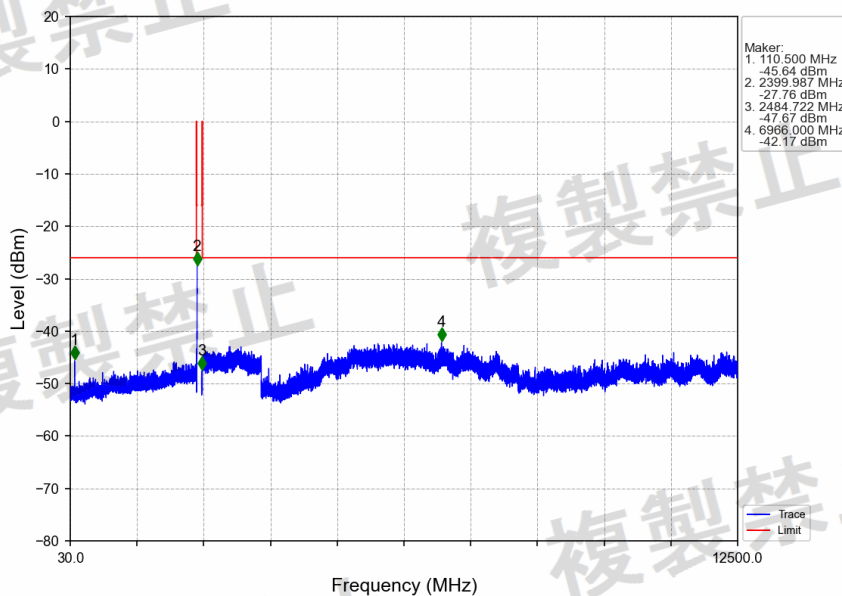
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2375.000	-45.19	/	-26	Pass
2387	2400	1	1	2392.746	-48.41	/	-16	Pass
2483.5	2496.5	1	1	2483.838	-39.53	/	-16	Pass
2496.5	12500	1	1	6051.000	-41.22	/	-26	Pass

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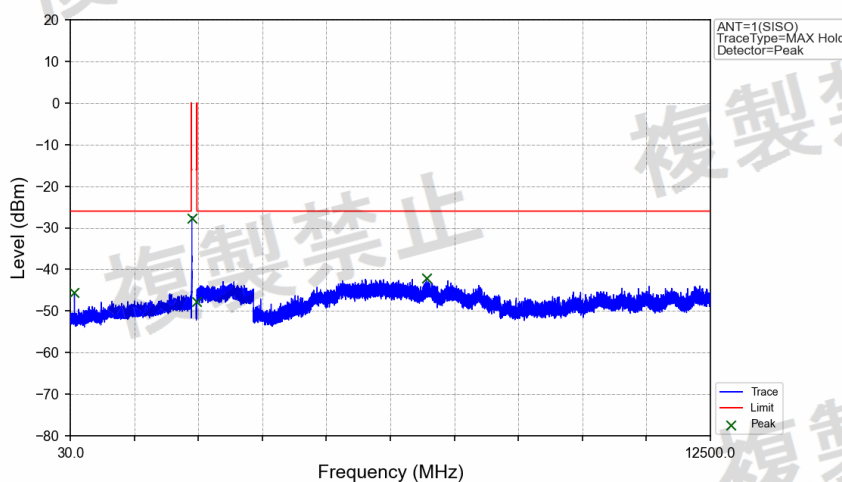
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4.2.3 TxSe_NTHV

1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

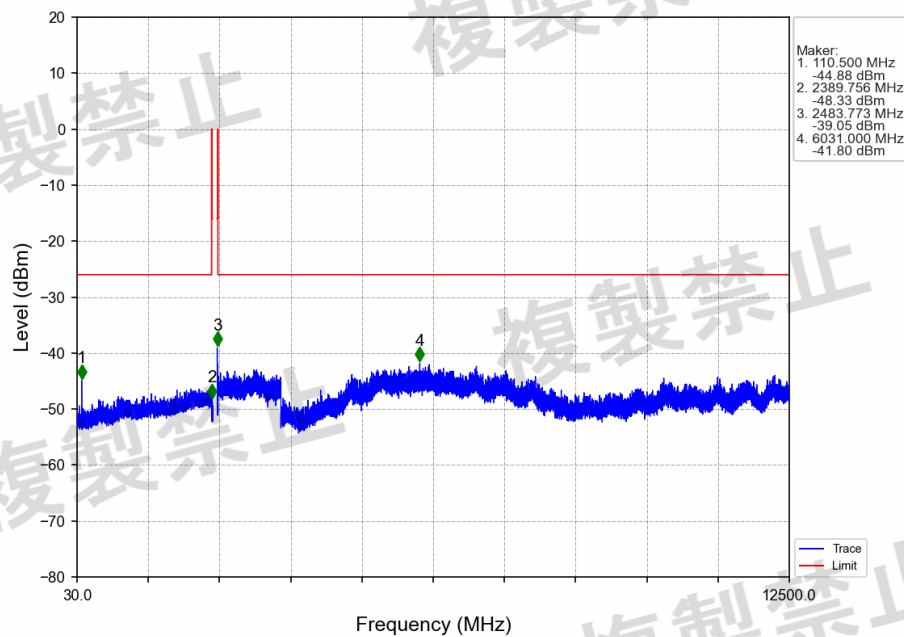


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	110.500	-45.64	/	-26	Pass
2387	2400	1	1	2399.987	-27.76	/	-16	Pass
2483.5	2496.5	1	1	2484.722	-47.67	/	-16	Pass
2496.5	12500	1	1	6966.000	-42.17	/	-26	Pass

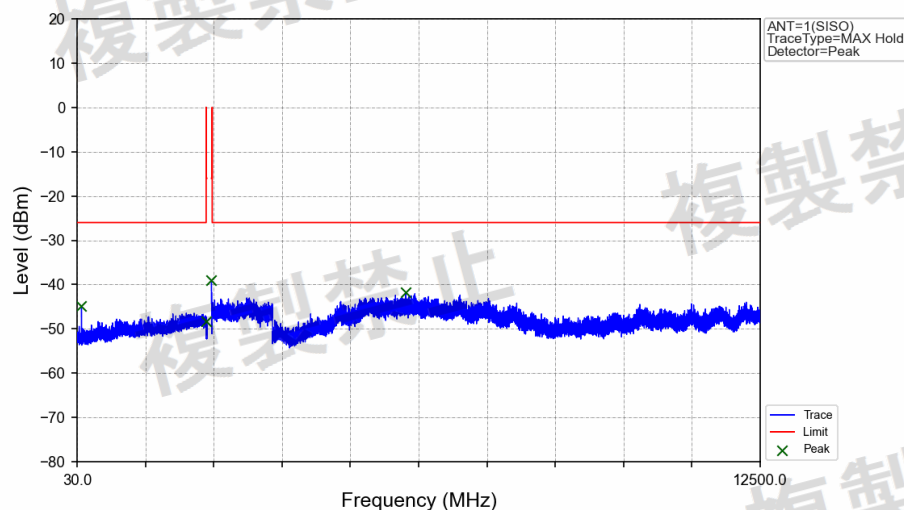
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	110.500	-44.88	/	-26	Pass
2387	2400	1	1	2389.756	-48.33	/	-16	Pass
2483.5	2496.5	1	1	2483.773	-39.05	/	-16	Pass
2496.5	12500	1	1	6031.000	-41.80	/	-26	Pass

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5. Secondary Radiated Emission (for controller)

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)		
1M	SISO	2402	1	30	1000	550	-70.41	0.091	/	/	4	Pass
				1000	12500	2426.5	-50.59	8.730	-75.61	0.027	20	Pass
						2451	-49.50	11.220	-75.91	0.026	20	Pass
						2454	-42.34	58.345	-76.04	0.025	20	Pass
						2457	-49.51	11.194	-71.85	0.065	20	Pass
						5098	-50.50	8.913	-75.09	0.031	20	Pass
		2480	1	30	1000	550.05	-71.77	0.067	/	/	4	Pass
				1000	12500	2447.5	-48.43	14.355	-74.89	0.032	20	Pass
						2450.5	-41.29	74.302	-75.48	0.028	20	Pass
						2453.5	-38.44	143.219	-48.12	15.417	20	Pass
						2456.5	-45.04	31.333	-76.06	0.025	20	Pass
						5740.5	-47.31	18.578	-55.78	2.642	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)		
1M	SISO	2402	1	30	1000	550	-71.85	0.065	/	/	4	Pass
				1000	12500	2402.5	-48.21	15.101	-75.69	0.027	20	Pass
						2451	-45.24	29.923	-75.97	0.025	20	Pass
						2454	-38.52	140.605	-76.10	0.025	20	Pass
						2457	-45.11	30.832	-74.37	0.037	20	Pass
						2480.5	-48.21	15.101	-76.03	0.025	20	Pass
		2480	1	30	1000	550	-71.88	0.065	/	/	4	Pass
				1000	12500	2448.5	-46.98	20.045	-74.89	0.032	20	Pass
						2451.5	-42.84	52.000	-67.18	0.191	20	Pass
						2454.5	-38.57	138.995	-76.07	0.025	20	Pass
2457.5	-49.38					11.535	-68.29	0.148	20	Pass		

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5.1.3 RxSe_NTHV

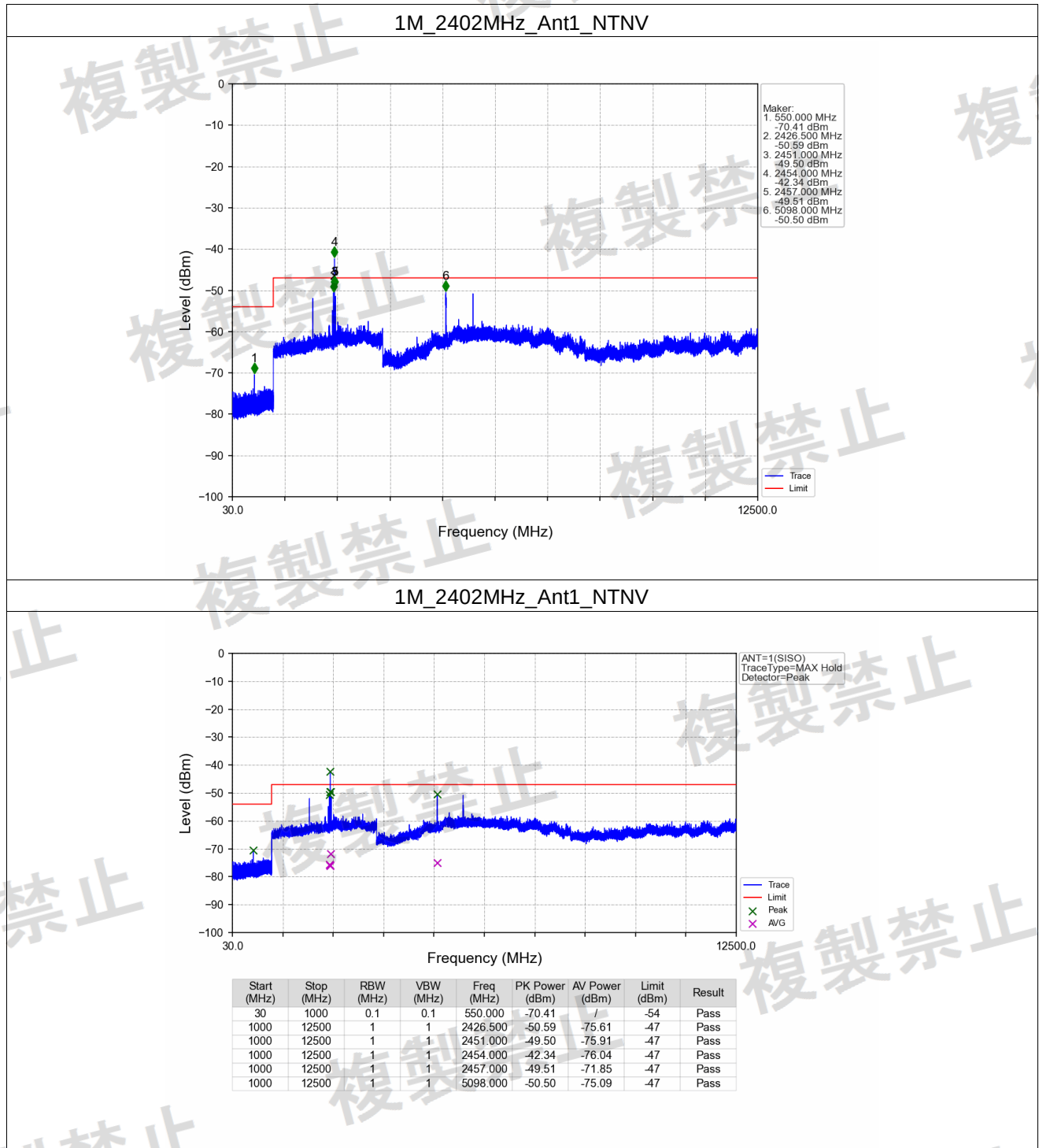
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	550	-71.43	0.072	/	/	4	Pass
				1000	12500	2426.5	-46.72	21.281	-75.66	0.027	20	Pass
						2451.5	-44.48	35.645	-75.15	0.031	20	Pass
						2454.5	-38.46	142.561	-56.90	2.042	20	Pass
						2585	-40.67	85.704	-75.71	0.027	20	Pass
						5740.5	-47.25	18.836	-75.17	0.030	20	Pass
		2480	1	30	1000	550	-71.02	0.079	/	/	4	Pass
				1000	12500	2450.5	-39.15	121.619	-74.75	0.033	20	Pass
						2453.5	-38.02	157.761	-76.12	0.024	20	Pass
						2456.5	-43.11	48.865	-49.16	12.134	20	Pass
						2595	-32.74	532.108	-75.21	0.030	20	Pass
						2598	-26.09	2460.368	-75.29	0.030	20	Pass

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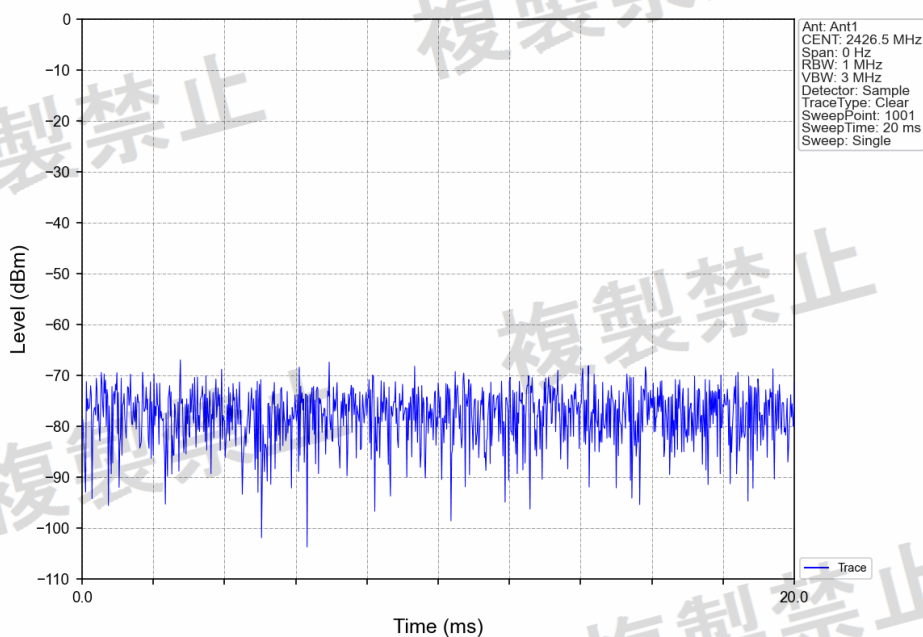
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5.2 Test Graph

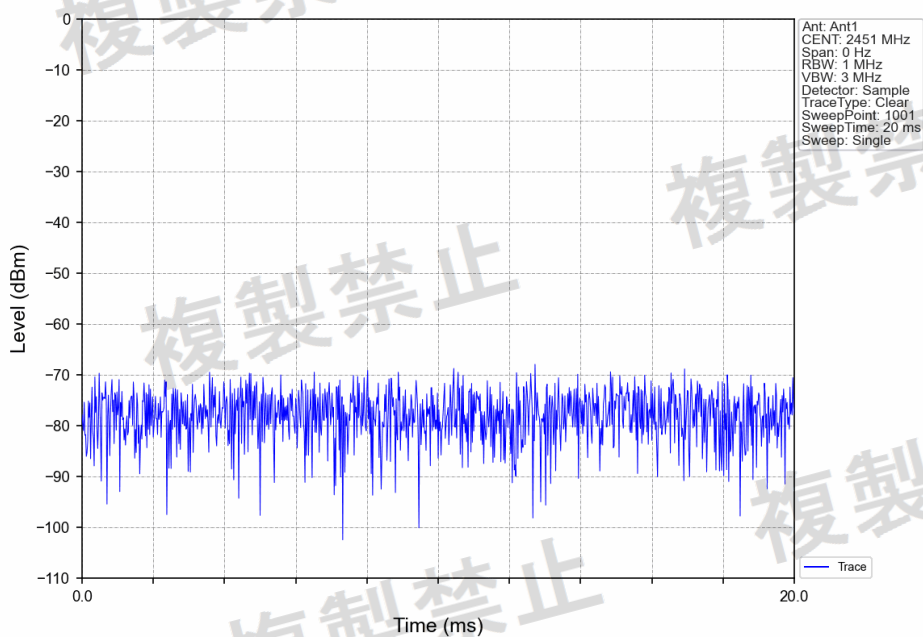
5.2.1 RxSe_NTNV



1M_2402MHz_Ant1_NTNV



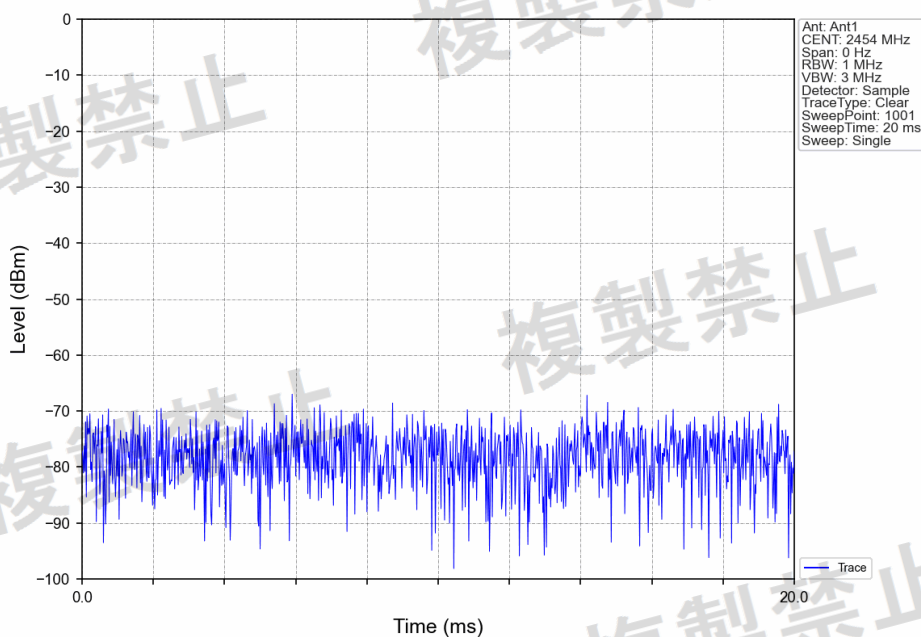
1M_2402MHz_Ant1_NTNV



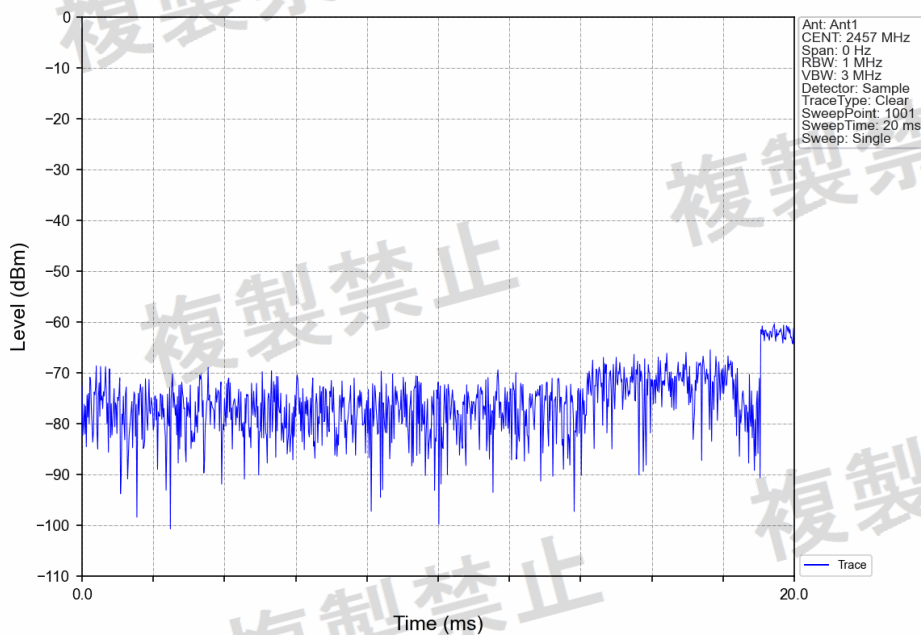
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1M_2402MHz_Ant1_NTNV



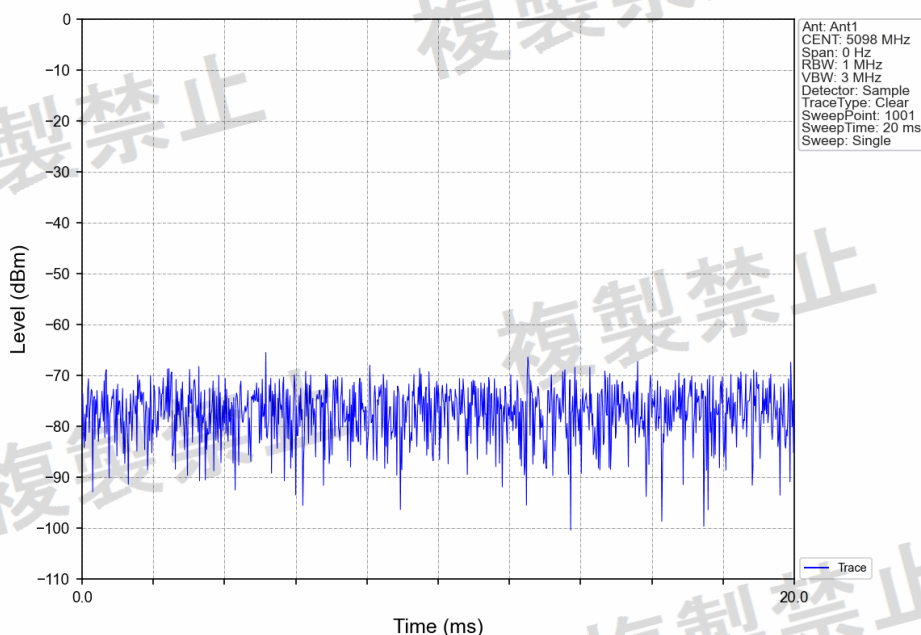
1M_2402MHz_Ant1_NTNV



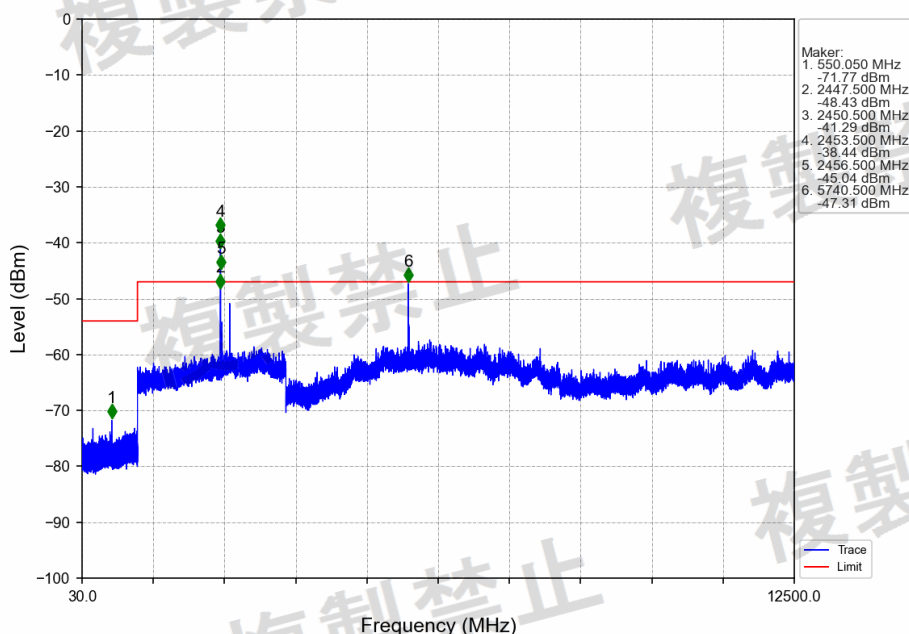
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1M_2402MHz_Ant1_NTNV



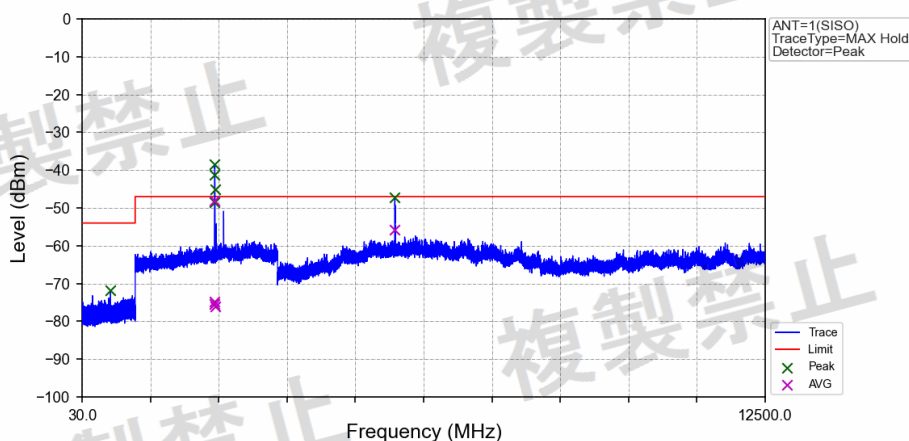
1M_2480MHz_Ant1_NTNV



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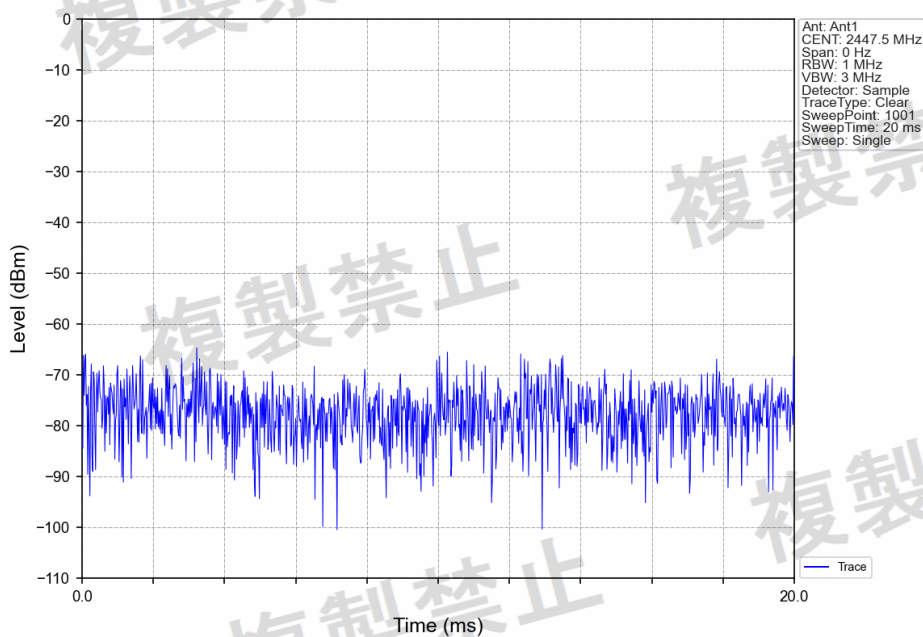
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1M_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.050	-71.77	/	-54	Pass
1000	12500	1	1	2447.500	-48.43	-74.89	-47	Pass
1000	12500	1	1	2450.500	-41.29	-75.48	-47	Pass
1000	12500	1	1	2453.500	-38.44	-48.12	-47	Pass
1000	12500	1	1	2456.500	-45.04	-76.06	-47	Pass
1000	12500	1	1	5740.500	-47.31	-55.78	-47	Pass

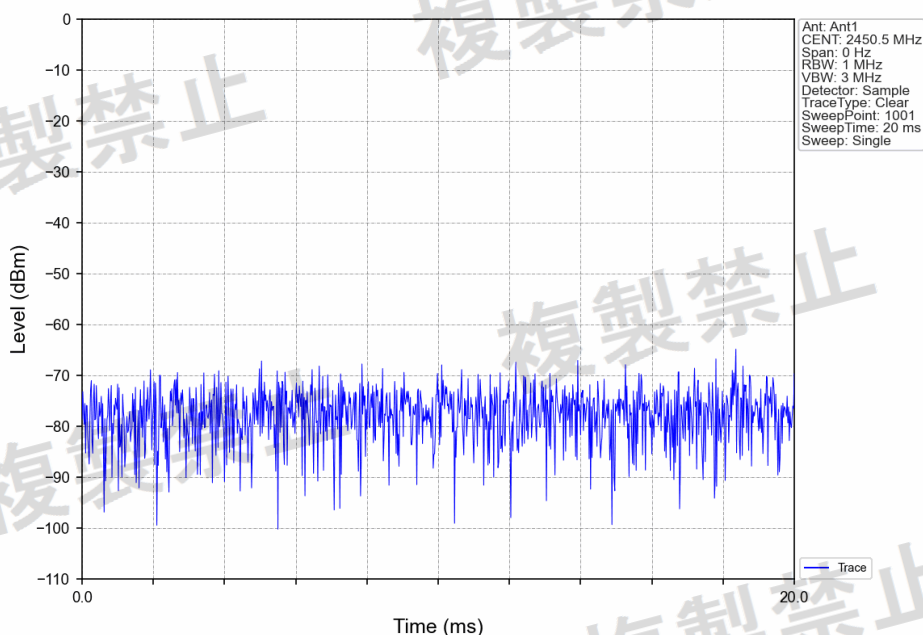
1M_2480MHz_Ant1_NTNV



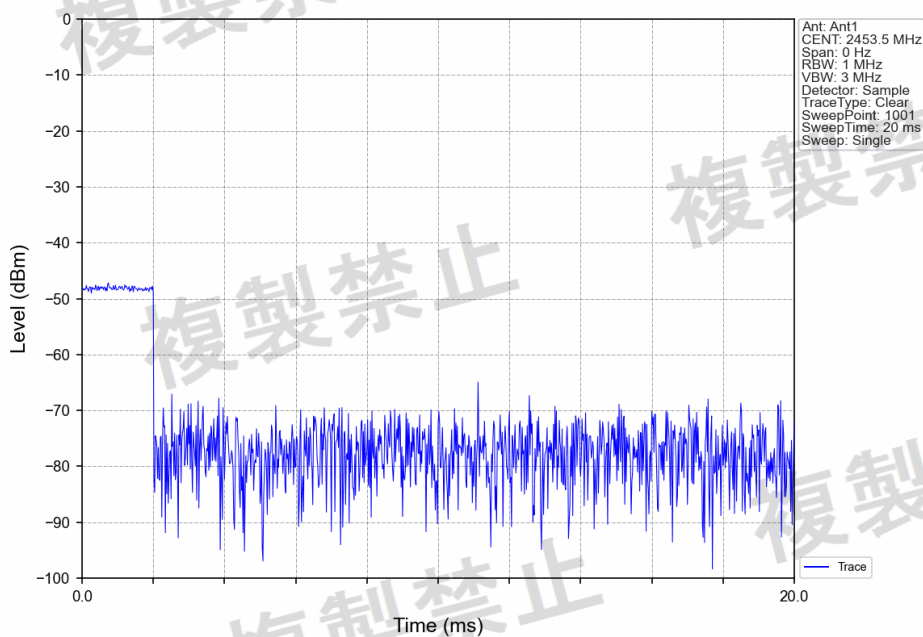
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1M_2480MHz_Ant1_NTNV



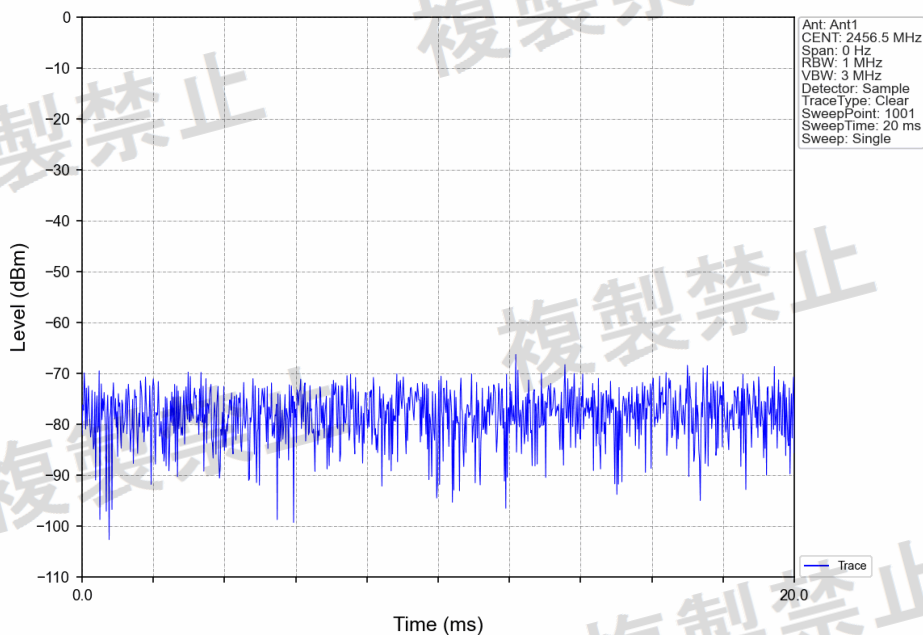
1M_2480MHz_Ant1_NTNV



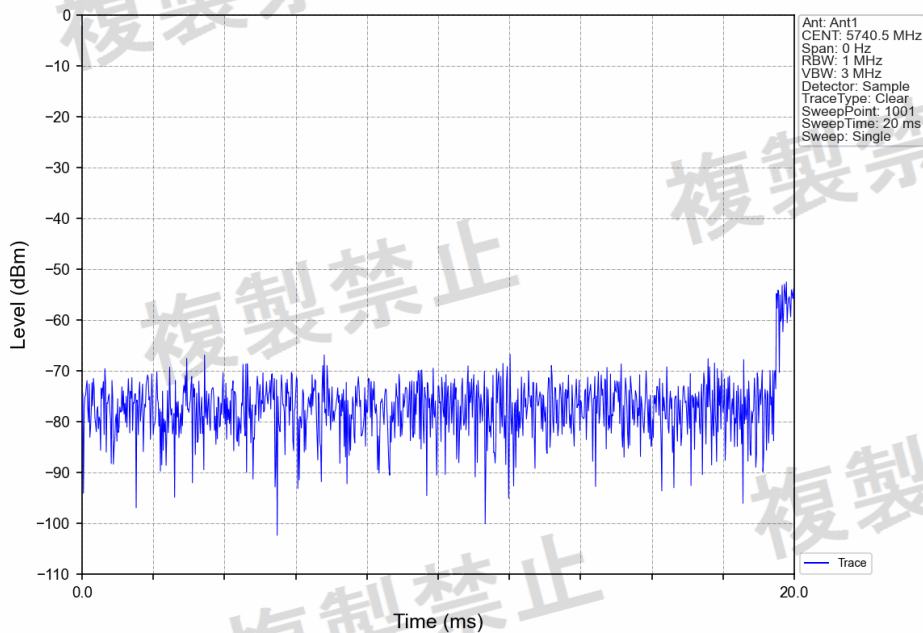
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

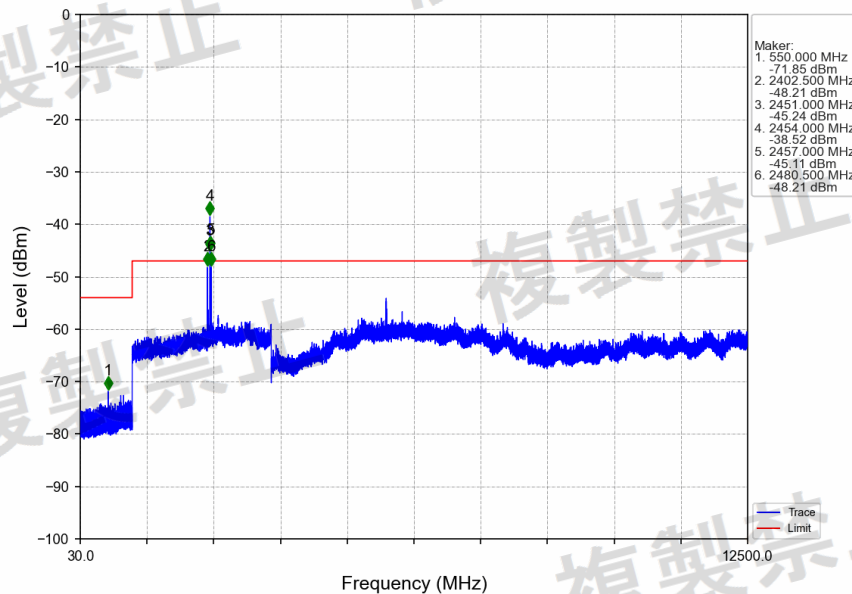


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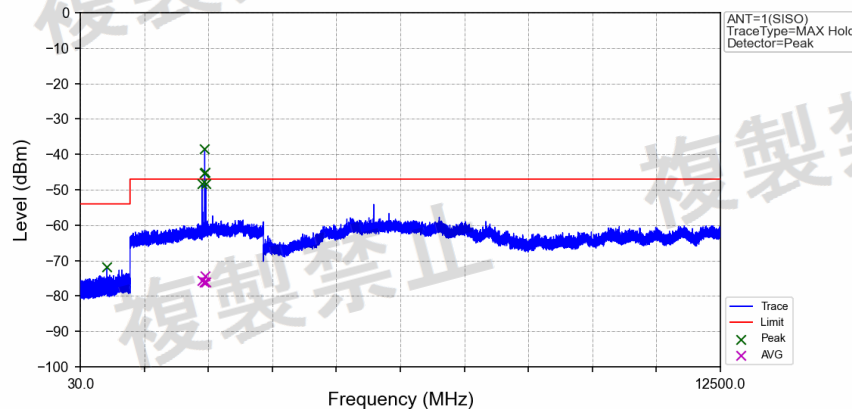
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5.2.2 RxSe_NTLV

1M_2402MHz_Ant1_NTLV



1M_2402MHz_Ant1_NTLV

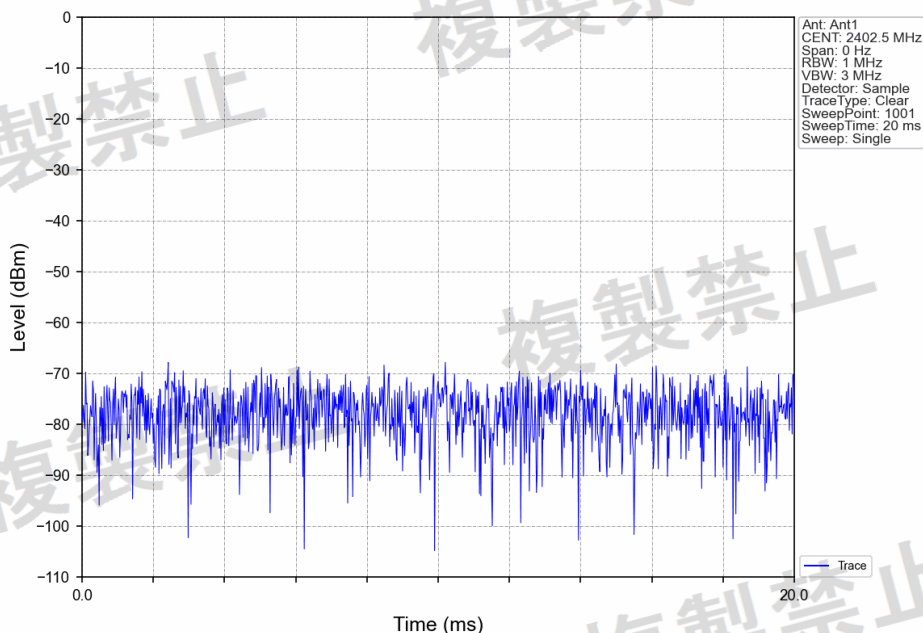


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-71.85	/	-54	Pass
1000	12500	1	1	2402.500	-48.21	-75.69	-47	Pass
1000	12500	1	1	2451.000	-45.24	-75.97	-47	Pass
1000	12500	1	1	2454.000	-38.52	-76.10	-47	Pass
1000	12500	1	1	2457.000	-45.11	-74.37	-47	Pass
1000	12500	1	1	2480.500	-48.21	-76.03	-47	Pass

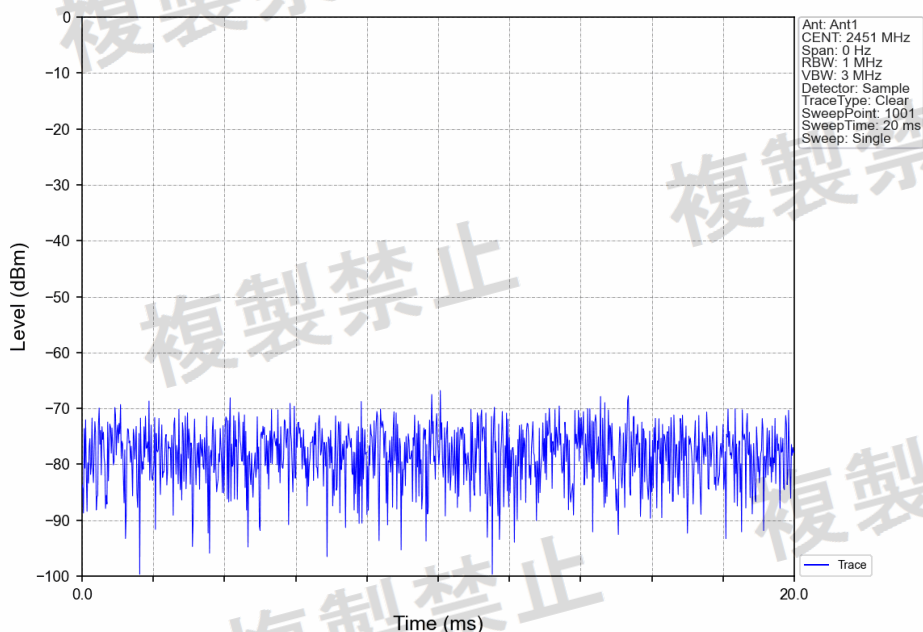
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1M_2402MHz_Ant1_NTLV



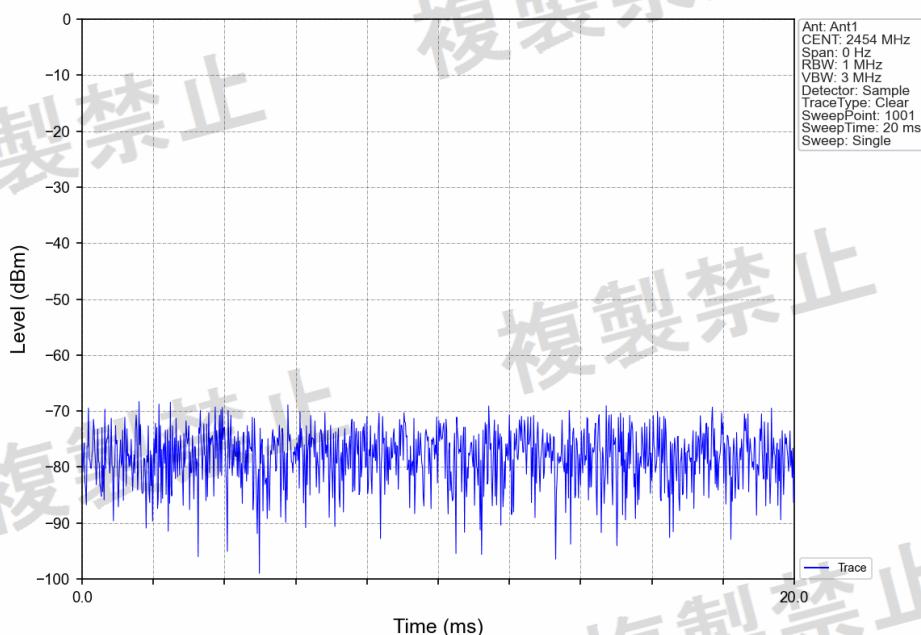
1M_2402MHz_Ant1_NTLV



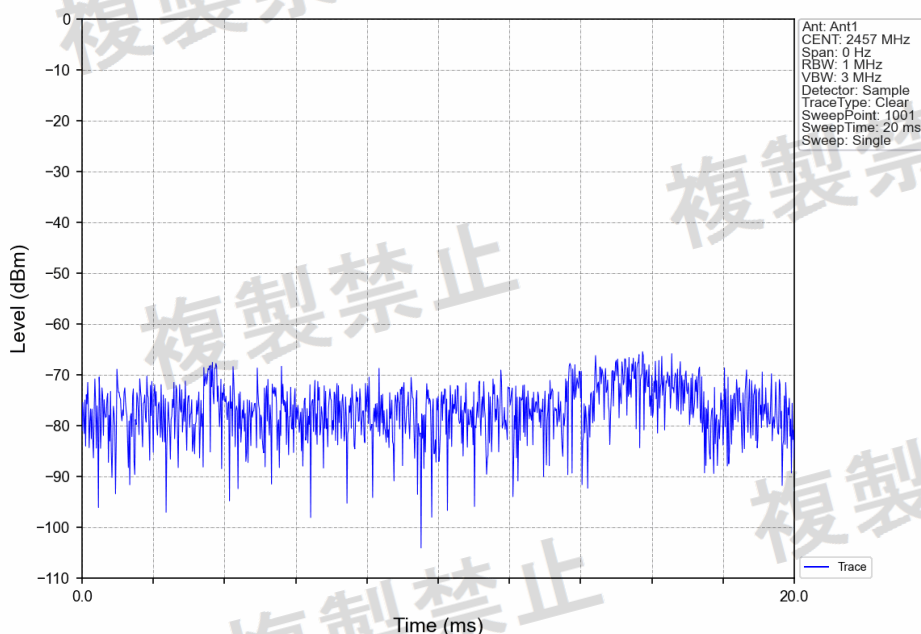
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1M_2402MHz_Ant1_NTLV



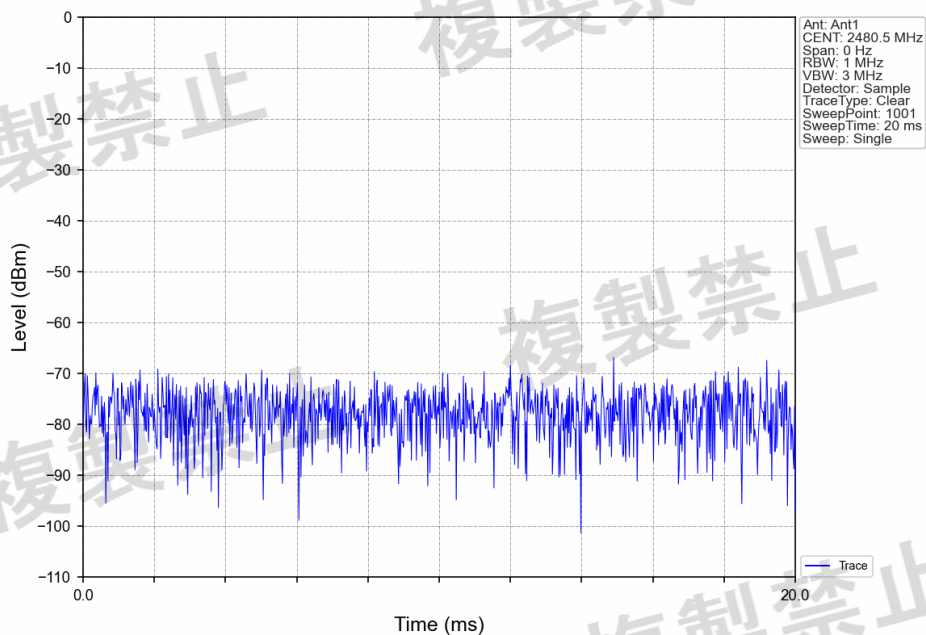
1M_2402MHz_Ant1_NTLV



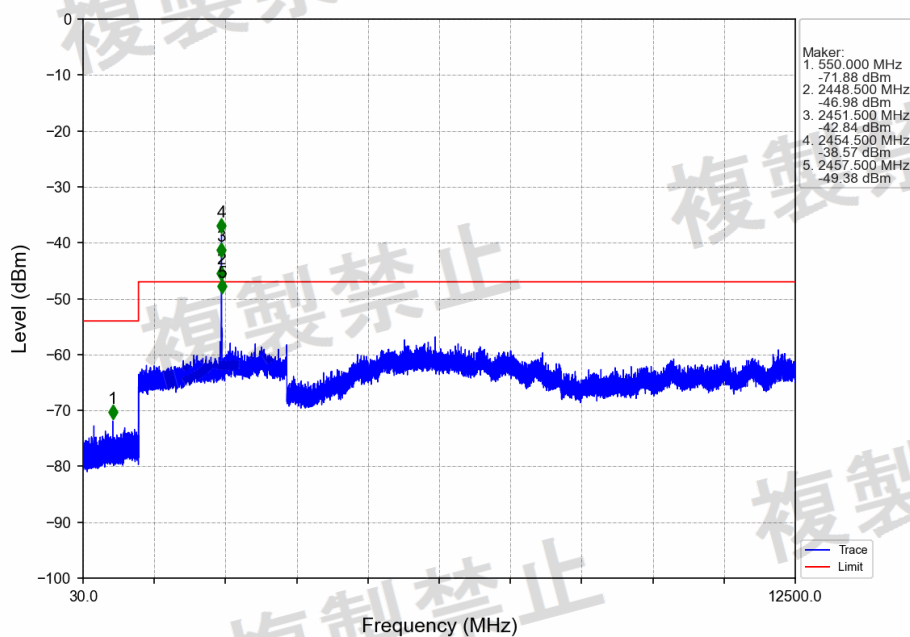
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1M_2402MHz_Ant1_NTLV



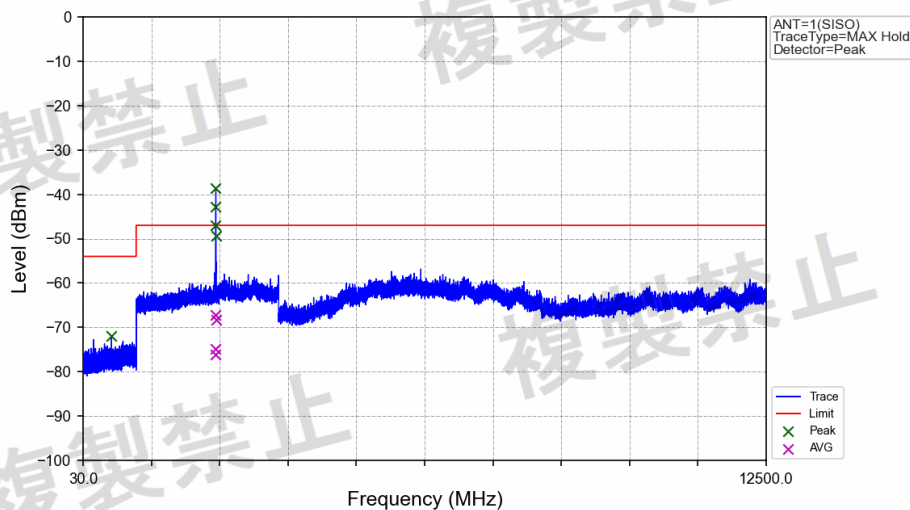
1M_2480MHz_Ant1_NTLV



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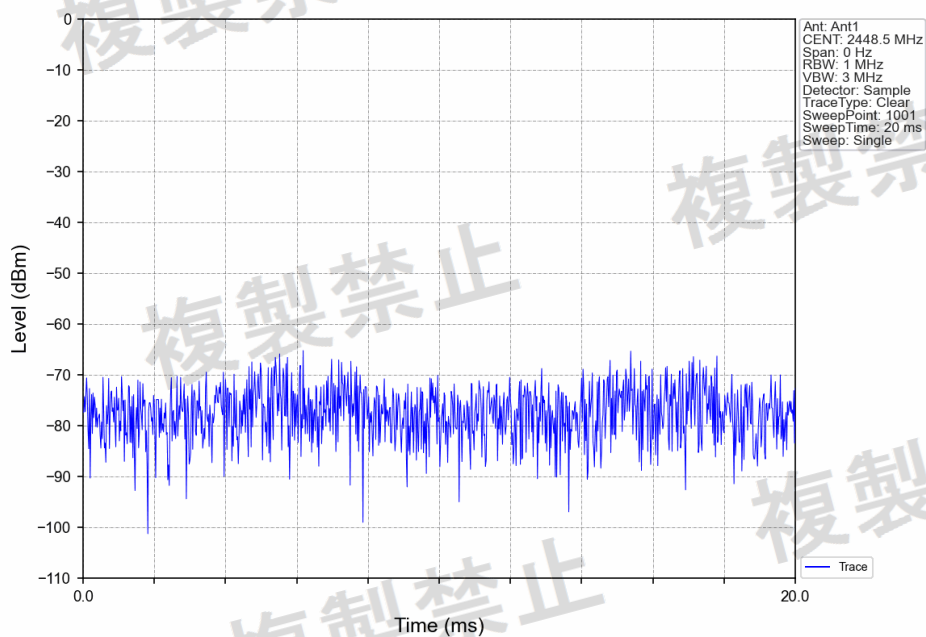
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1M_2480MHz_Ant1_NTLV



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	550.000	-71.88	/	-54	Pass
1000	12500	1	1	2448.500	-46.98	-74.89	-47	Pass
1000	12500	1	1	2451.500	-42.84	-67.18	-47	Pass
1000	12500	1	1	2454.500	-38.57	-76.07	-47	Pass
1000	12500	1	1	2457.500	-49.38	-68.29	-47	Pass

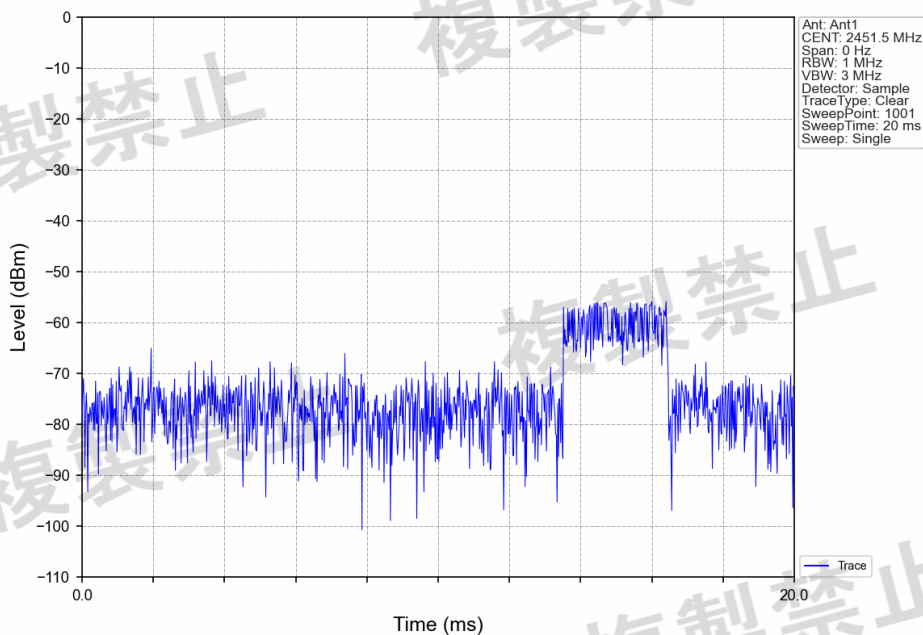
1M_2480MHz_Ant1_NTLV



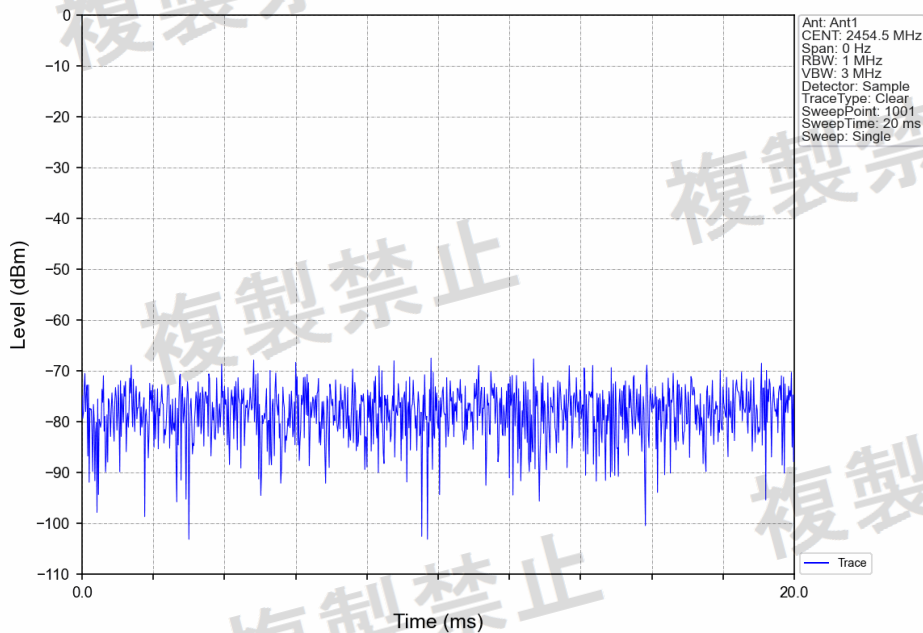
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1M_2480MHz_Ant1_NTLV

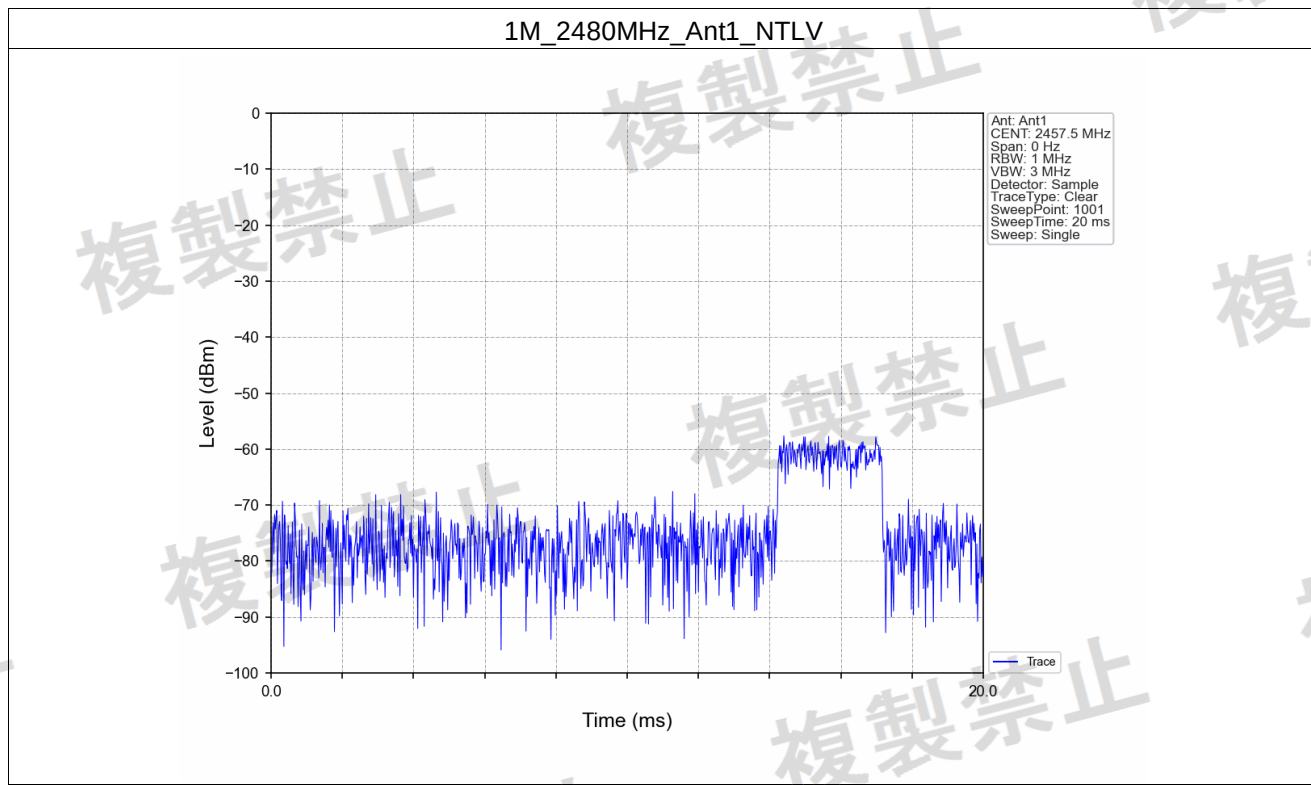


1M_2480MHz_Ant1_NTLV



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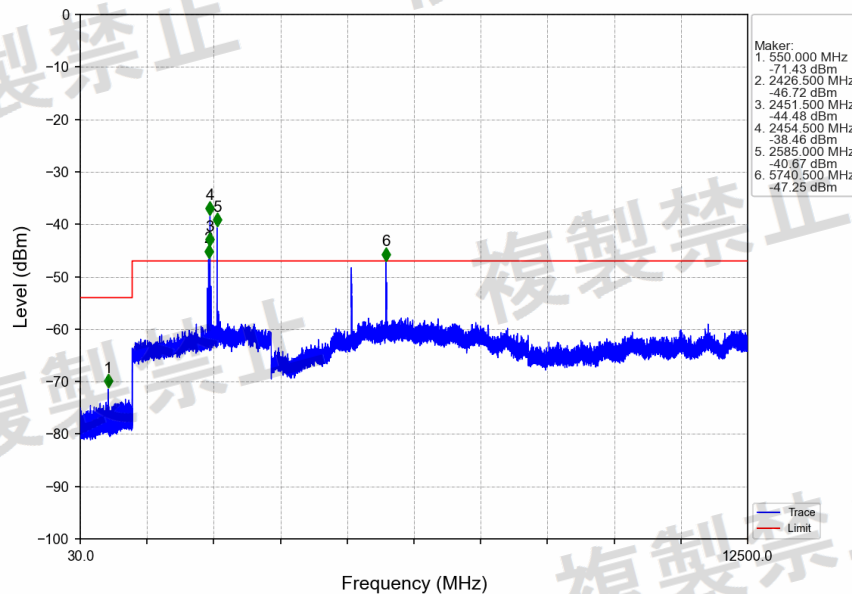


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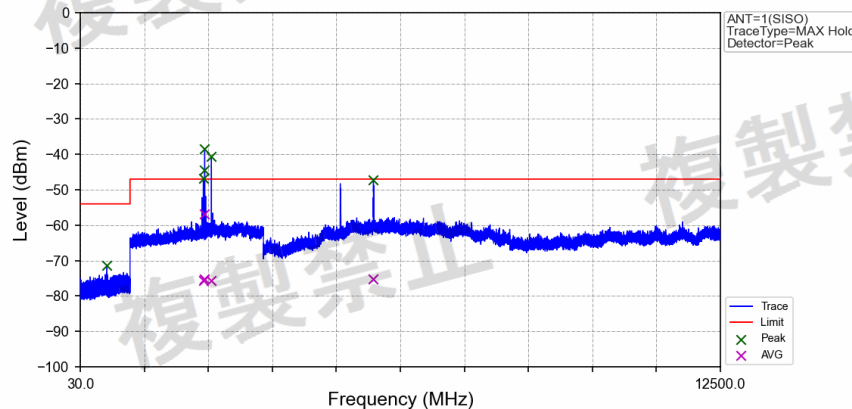
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5.2.3 RxSe_NTHV

1M_2402MHz_Ant1_NTHV



1M_2402MHz_Ant1_NTHV

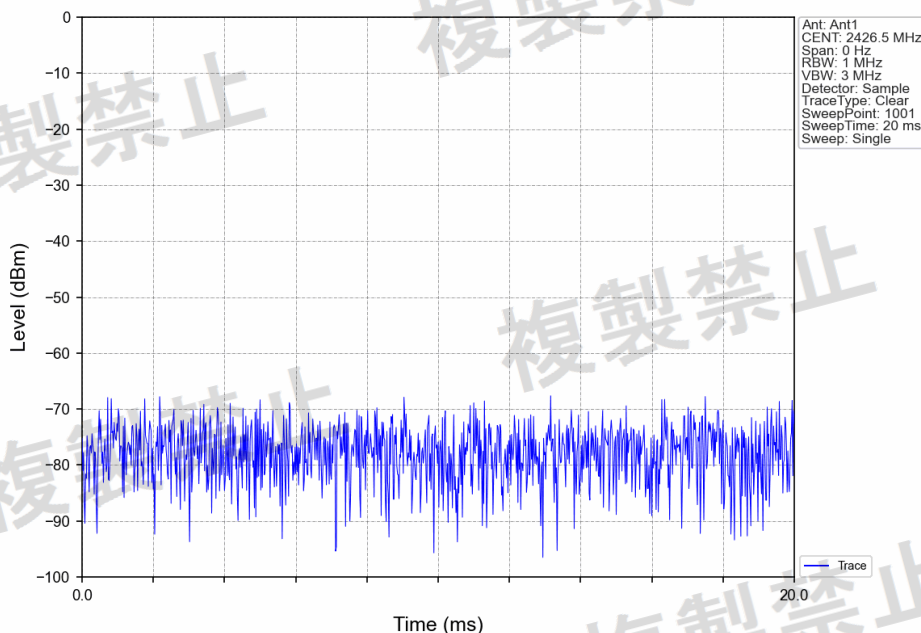


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	550.000	-71.43	/	-54	Pass
1000	12500	1	1	2426.500	-46.72	-75.66	-47	Pass
1000	12500	1	1	2451.500	-44.48	-75.15	-47	Pass
1000	12500	1	1	2454.500	-38.46	-56.90	-47	Pass
1000	12500	1	1	2585.000	-40.67	-75.71	-47	Pass
1000	12500	1	1	5740.500	-47.25	-75.17	-47	Pass

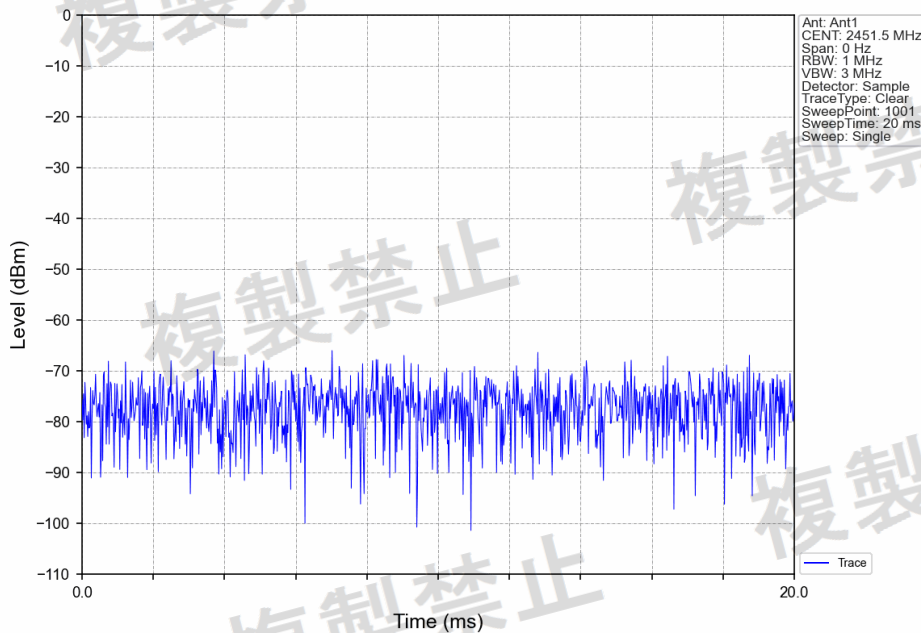
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1M_2402MHz_Ant1_NTHV



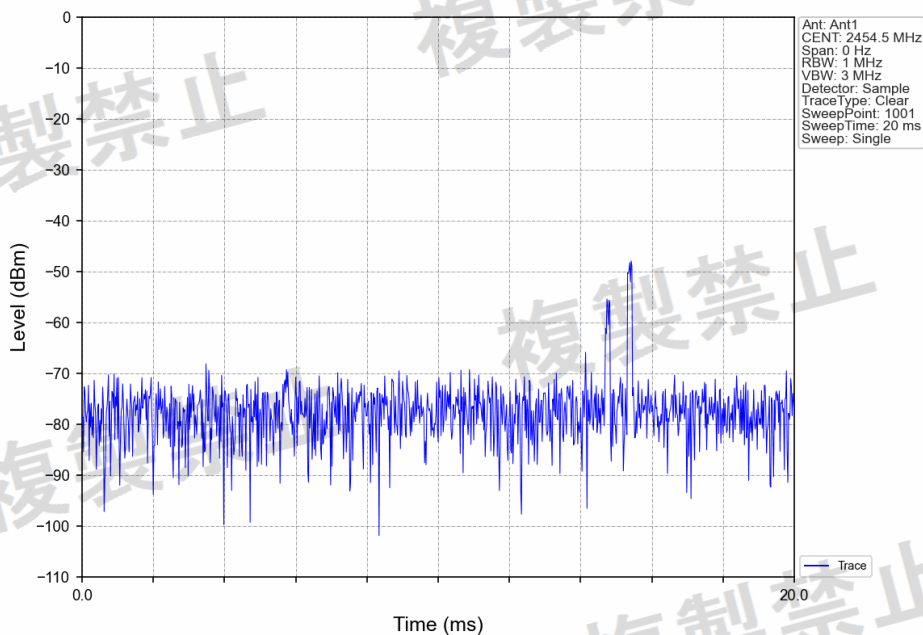
1M_2402MHz_Ant1_NTHV



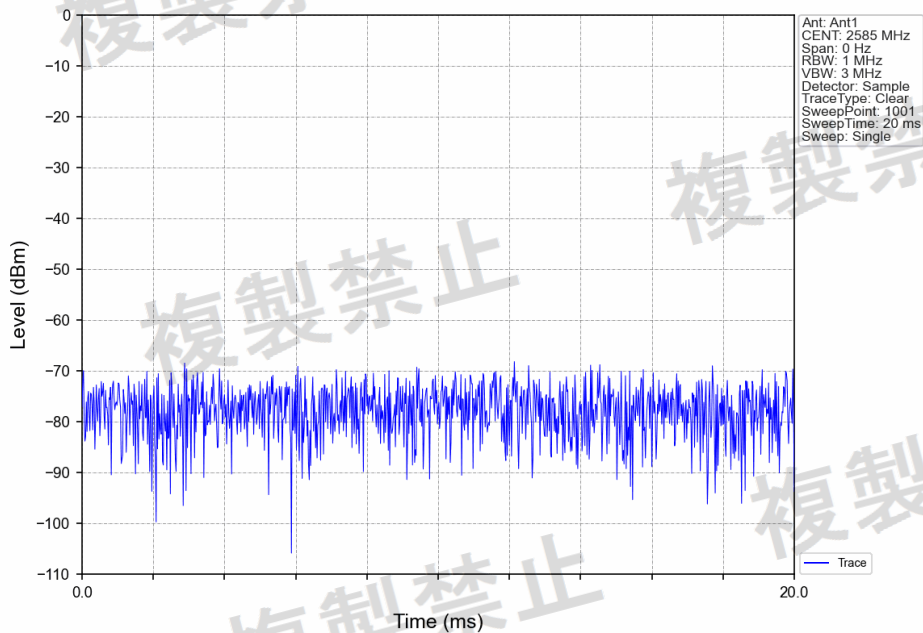
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1M_2402MHz_Ant1_NTHV



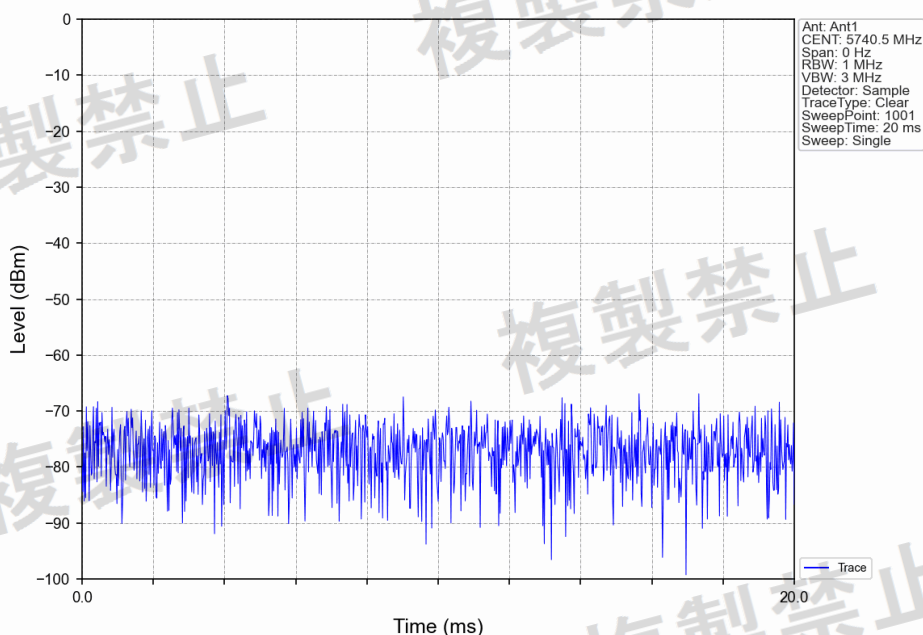
1M_2402MHz_Ant1_NTHV



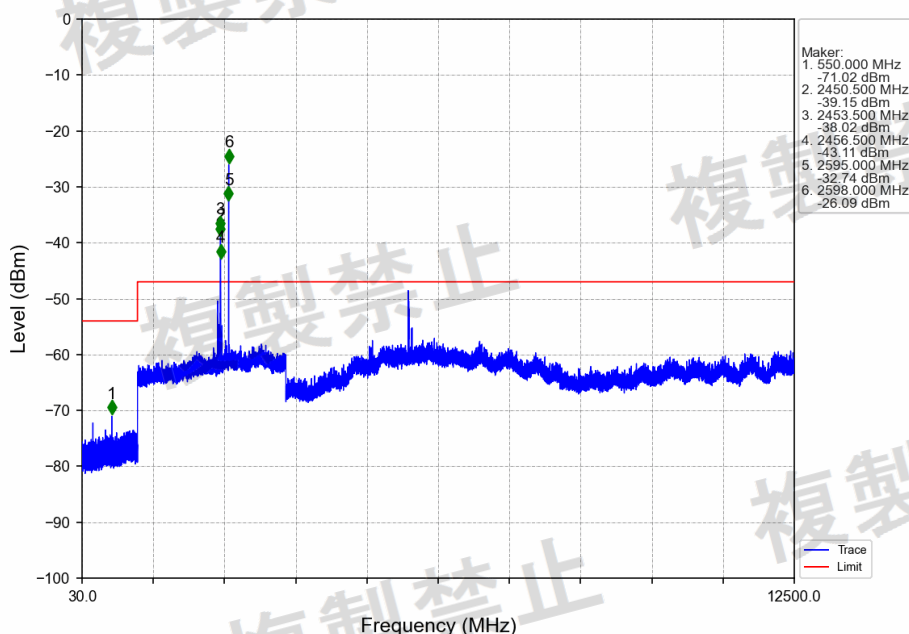
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1M_2402MHz_Ant1_NTHV



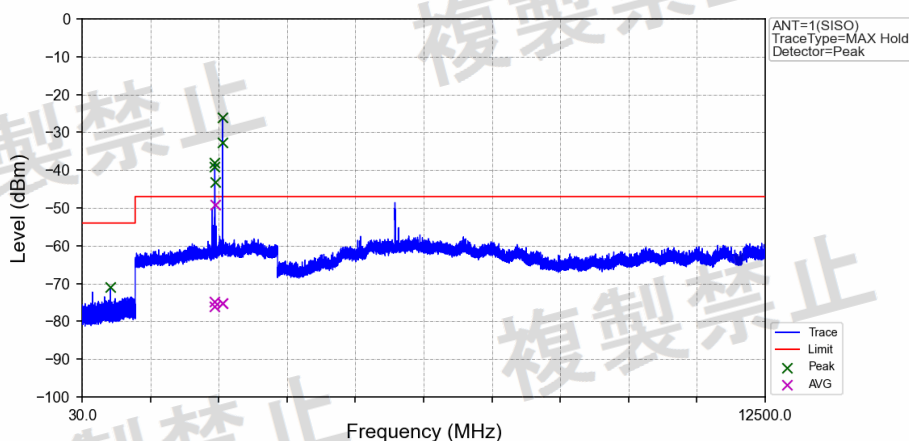
1M_2480MHz_Ant1_NTHV



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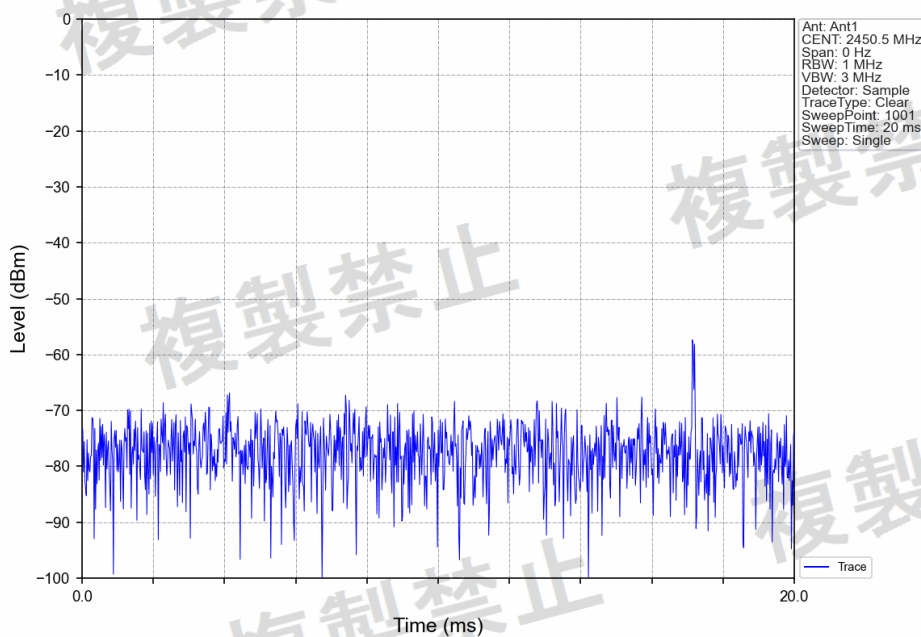
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1M_2480MHz_Ant1_NTHV



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	550.000	-71.02	/	-54	Pass
1000	12500	1	1	2450.500	-39.15	-74.75	-47	Pass
1000	12500	1	1	2453.500	-38.02	-76.12	-47	Pass
1000	12500	1	1	2456.500	-43.11	-49.16	-47	Pass
1000	12500	1	1	2595.000	-32.74	-75.21	-47	Pass
1000	12500	1	1	2598.000	-26.09	-75.29	-47	Pass

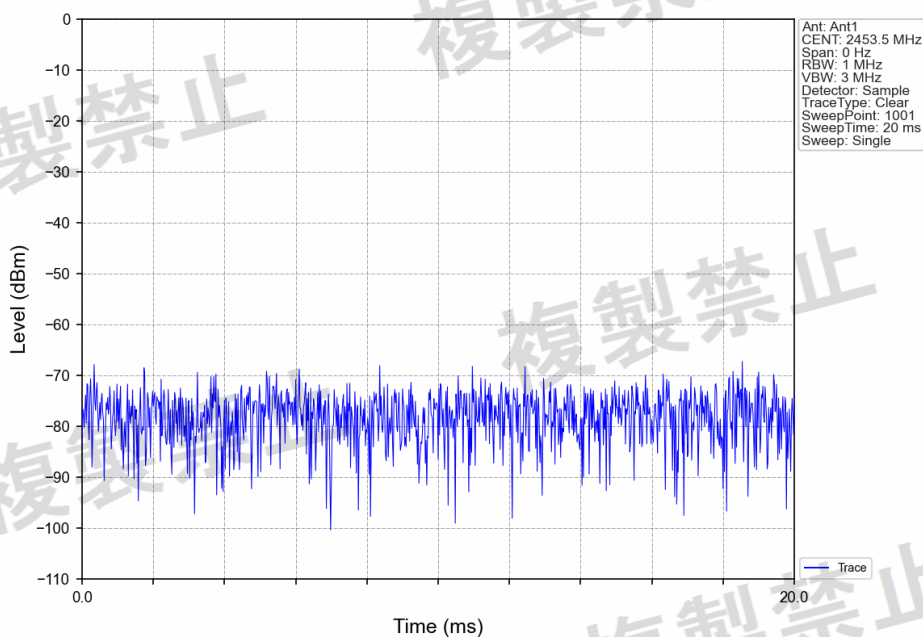
1M_2480MHz_Ant1_NTHV



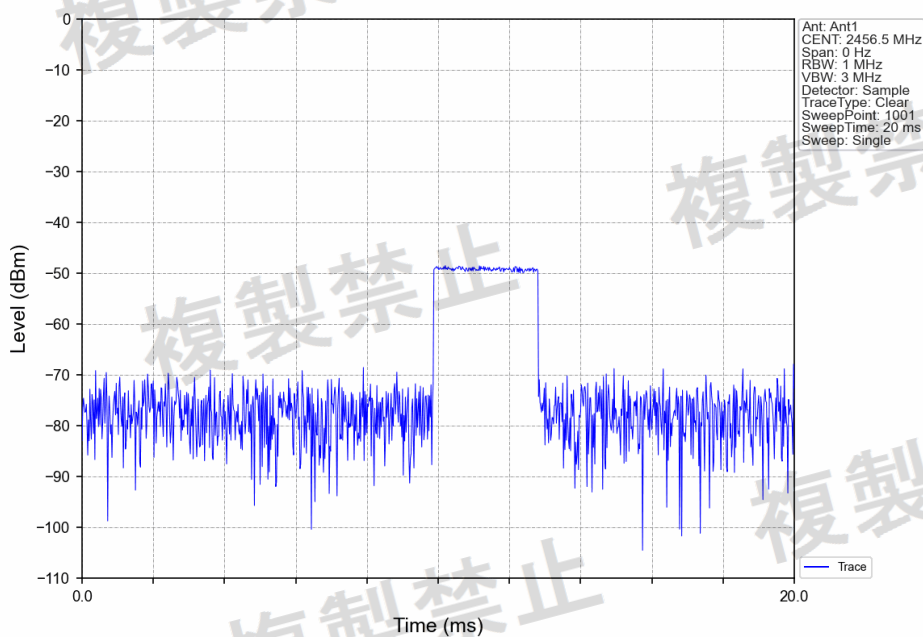
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1M_2480MHz_Ant1_NTHV



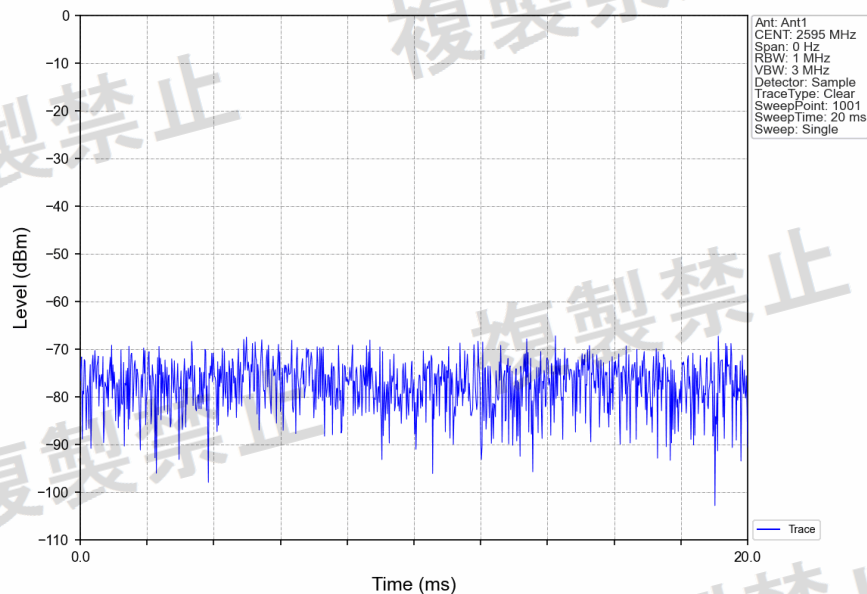
1M_2480MHz_Ant1_NTHV



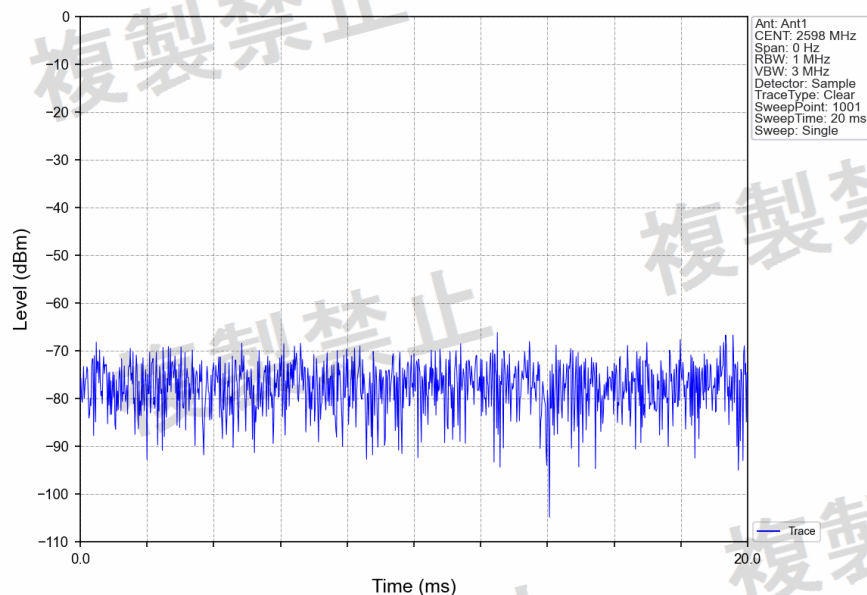
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1M_2480MHz_Ant1_NTHV



1M_2480MHz_Ant1_NTHV



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