



Test Report

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Application No.: DNT2603050220R00578-00357
Applicant: Guangzhou Junxingcheng Electronic Technology Co.,Ltd.
Address of Applicant: Room.201,2nd Floor,Building C,NO.15,Wenyong Road,Xindun Village,Xintang Town,Zengcheng District,Guangzhou City,Guangdong Province
EUT Description: Wireless mouse
Model No.: R11 ULTRA
Additional Model: G3PRO, X11SE, V2, V6, V8, V3, V3PRO, M2, X11ULTRA
Trade Mark: ATTACK SHARK
Standards: Item 19 of Article 2 Paragraph 1
MIC Notice No.88 Appendix No.43
Date of Receipt: 2025/08/29
Date of Test: 2025/08/30 to 2025/09/26
Date of Issue: 2026/03/12
Test Result: **PASS ***

Prepared By: Carl Lin (Testing Engineer)

Reviewed By: Wayne Lin (Project Engineer)

Approved By: Heise Shen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep 26, 2025	Original Report	DNT2508290677R9550-11422
V2.0	/	Jan 5, 2026	Report 1	DNT2508290677R9550-11422-R1
V3.0	/	Mar 12, 2026	Report 2	DNT2603050220R00578-00357

Modification:

The test report R2 reference No. DNT2603050220R00578-00357 was modified and issued on March 12, 2026 base on R1 reference No. DNT2508290677R9550-11422-R1, which including the following changes: Series model X11PRO changed to X11ULTRA; Just differences in sales regions and customer model definitions, everything else remains unchanged. Which were considered not technical modifications and no additional tests were considered necessary.



1 Test Summary

Test	Test Method	Limit/Severity		Result
Antenna Requirement	MIC Notice No.88 Appendix No.43	Notice 88 Appendix 43, B-1 (1) & (2)		PASS
Test frequency	MIC Notice No.88 Appendix No.43	Notice 88 Appendix 43, A-3		PASS
Frequency Error	MIC Notice No.88 Appendix No.43	≤ ±50 ppm		PASS
Occupied Bandwidth	MIC Notice No.88 Appendix No.43	FH, FH+DS, FH+OFDM:	≤ 83.5MHz	PASS
		OFDM: 20MHz systems	≤26MHz	
		OFDM: 40MHz systems	>26MHz & ≤40MHz	
		Other:	≤26MHz	
Spread Bandwidth	MIC Notice No.88 Appendix No.43	≥ 500 kHz (Only Spread Spectrum)		PASS
Antenna Power and Tolerance	MIC Notice No.88 Appendix No.43	FH, FH+DS, FH+OFDM:		PASS
		a. 2427 ~ 2470.75MHz	≤ 3mW/MHz	
		b. Others	≤10mW	
		Tolerance:	+20%	
Spurious Emission of TX	MIC Notice No.88 Appendix No.43	< 2387MHz	≤ 2.5μW/MHz	PASS
		2387 ~ 2400MHz	≤ 25μW/MHz	
		2483.5 ~ 2496.5MHz	≤ 25μW/MHz	
		>2496.5MHz	≤ 2.5μW/MHz	
Interference prevention capability	MIC Notice No.88 Appendix No.43	Notice 88 Appendix 43, 44, 45		PASS
Spurious Emission of Rx	MIC Notice No.88 Appendix No.43	(1) Below 1 GHz: ≤ 4 nW (2) Above 1 GHz: ≤ 20 nW		PASS
Remark:				
EUT: In this whole report EUT means Equipment Under Test. : In this whole report (or) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. Item 19 of Article 2 Paragraph 1				



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2 General Information

2.1 General Description of E.U.T.

Manufacturer:	Guangzhou Junxingcheng Electronic Technology Co.,Ltd.		
Address of Manufacture:	Room.201,2nd Floor,Building C,NO.15,Wenyong Road,Xindun Village,Xintang Town,Zengcheng District,Guangzhou City,Guangdong Province		
Product Name:	Wireless mouse		
Model No.:	R11 ULTRA		
Additional Model:	G3PRO, X11SE, V2, V6, V8, V3, V3PRO, M2, X11ULTRA		
Trade Mark:	ATTACK SHARK		
Hardware Version:	V1.0		
Software Version:	V1.0		
Operating Frequency:	2403 MHz to 2480 MHz		
Declared Antenna Power:	1mW		
Type of Modulation:	GFSK		
Number of Channels:	13 Channels		
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain*:	☒ Provided by client		
	2.08dBi (ANT1)		
RF Cable*:	☒ Provided by client		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
power supply:	Input:5V; DC 3.7V From Battery		
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. *All models are just color and appearance differences, motherboard, PCB circuit board, chip, electronic components all the same.			



2.2 Description of Support Units

The EUT has been tested independently.

2.3 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

Remark: Our test report is under the quality assurance system according to ISO17025.

- **FCC, USA**

Designation Number: CN1348

- **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

- **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.



2.4 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	11	2446
2	2472	12	2464
3	2466	13	2480
4	2458		
5	2450		
6	2462		
7	2442		
8	2468		
9	2424		
10	2474		

2.5 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.6 Power Setting of Test Software

Software Name	NA		
Frequency(MHz)	2403	2442	2480
Setting	Default	Default	Default

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

No.	Item	Measurement Uncertainty
1	Frequency Error	±1.9%
2	Antenna Power	±0.743dB
3	Occupied Bandwidth	±0.0196%
4	Spread Bandwidth	±0.0196%
5	Transmitter Spurious Emission Strength and Unwanted Emission Intensity	30MHz-1GHz:±0.746dB 1GHz-13GHz: ±1.328dB



2.8 Equipment List

For Connect EUT Antenna Terminal Test						
Description	Manufacturer	Model	Serial Number	Cal date	Due date	correcting mechanism
Signal Generator	Keysight	N5181A-6G	MY48180415	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Signal Generator	Keysight	N5182B	MY57300617	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Power supply	Keysight	E3640A	ZB2022656	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Radio Communication Tester	R&S	CMW500	105082	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Spectrum Analyzer	Aglient	N9010A	MY52221458	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Pulse Power Sensor	Anritsu	MA2411B	1911397	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.
Voltmetre	FLUKE	F15B PRO	59755315WS	2024-10-23	2025-10-22	Dongguan DN Testing Co.,Ltd.

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.



3 Test Results

3.1 Radio Technical Requirements Specification

Table 1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2-1)

Items	Technical standard
Assigned frequency or designated frequency	2400-2483.5MHz
Communication method	One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum
Tolerance of frequency ($\times 10^{-6}$)	$\leq \pm 50$ ppm
Tolerance of occupied bandwidth	Others: 26MHz or less
Antenna power	Others: ≤ 10 mW Tolerance: +20%
Antenna gain	1) 12.14 dBi or less in principle 2) In case of directional antenna (1) FH, FH+DS or FH+OFDM using 2427-2470.75 MHz EIRP ≤ 16.91 dBm/MHz (2) OFDM or DS other than (1) EIRP ≤ 22.14 dBm/MHz (3) Other than (1) and (2): 22.14 dBm or less (4) OFDM OBW 26 - 40MHz: 19.14dBm/MHz (5) Half-power angle of directional antenna (e) in case of the item 2): $e \leq 360/A$ (The A is 10 in maximum.)
Tolerance of spurious emission intensity	(< 2387 MHz: 2.5 μ W 2387 to 2400 MHz: 25 μ W 2483.5 through 2496.5 MHz: 25 μ W > 2496.5 MHz: 2.5 μ W
Spreading bandwidth	DS, FH, FH+DS, FH+OFDM: 500kHz or more
Spreading rate of spectrum	For DS system; (Spreading bandwidth) / (Frequency corresponding to transmission rate) ≥ 5
Limit of secondary radiated emissions	(1) Below 1 GHz: 4nW (2) 1 GHz or higher: 20nW
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping OFDM: Orthogonal frequency division multiplexing



3.2 E.U.T. test conditions

Power Supply:	DC 3.7V		
	During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, the fluctuation of input voltage to the circuit of RF unit of test equipment is exceed $\pm 1\%$. So, all measurement has been conducted by normal and limit voltage.		
	The measurement result of the voltage fluctuation at RF circuit when DC 3V +/- 10%.		
	DC Input		input voltage to the circuit
			Deviation
	High Voltage	4.07V	3.3V
	Normal Voltage	3.7V	3.3V
	Low Voltage	3.33V	3.4V
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.		



3.3 Antenna Requirement

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.

The antenna is integrated antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.08dBi.

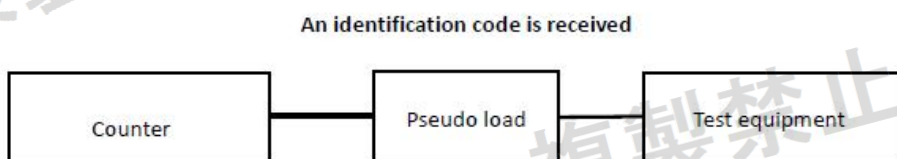
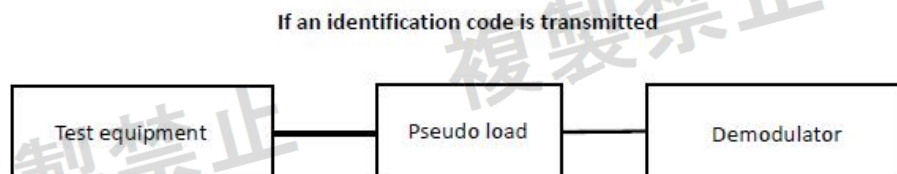
Result: An antenna connector is available, all relevant tests will be carried out conducted.



3.4 Interference prevention function

1) Measurement system diagram

(a) When transmitting identification code



2) Condition of measuring instrument

(b) 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

(a) 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.

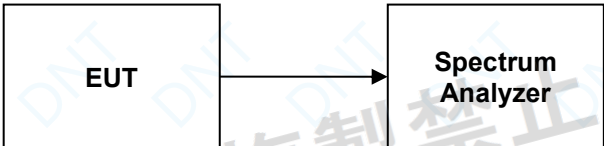
EC:D3:50:DF:E2:95

5) Test result: The unit does meet the requirements (Good).

PASS



3.5 Frequency Error

Limit:	Tolerance of frequency: $\pm 50 \times 10^{-6}$
Text Method:	MIC Notice No.88 Appendix No.43
Test Status:	Test the EUT in transmitting mode without modulation.
Temperature:	23.5 °C
Humidity:	47.1 % RH
Atmospheric Pressure:	101.0kPa -101.3 kPa
Test Configuration:	 <pre>graph LR; EUT[EUT] --> SA[Spectrum Analyzer]</pre>
Test Procedure:	1. Test Conditions: Spectrum Analyzer is used for measurement. 2. EUT conditions: Modulation/Spread/Hopping OFF, CW 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

Test Result See: Appendix A



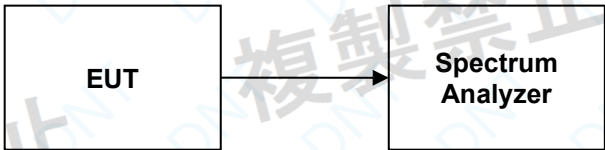
3.6 Occupied Bandwidth (99%)

Limit:	26 MHz or less
Text Method:	MIC Notice No.88 Appendix No.43
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Temperature:	23.5 °C
Humidity:	48.2 % RH
Atmospheric Pressure:	101.0kPa -101.3 kPa
Test Configuration:	 <pre>graph LR; EUT[EUT] --> SA[Spectrum Analyzer]</pre>
Test Procedure:	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: Frequency: Test Frequency Span 4 MHz RBW 300 KHz VBW 300 KHz Sweep Time Auto detector mode Sample Indication mode Max hold OBW 99%

Test Result See: Appendix B



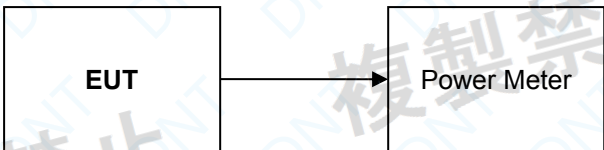
3.7 Spread Bandwidth(90%)

Limit:	DS,FH, FH+DS,FH+OFDM: $\geq 500\text{KHz}$
Text Method:	MIC Notice No.88 Appendix No.43
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Temperature:	23.5 °C
Humidity:	48.2 % RH
Atmospheric Pressure:	101.0kPa -101.3 kPa
Test Configuration:	 <pre>graph LR; EUT[EUT] --> SA[Spectrum Analyzer]</pre>
Test Procedure:	- Test Conditions: Spectrum Analyzer is used for measurement. - EUT conditions: Modulation/Spread/Hopping ON For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal. - Spectrum Analyzer conditions: Frequency: Test Frequency Span 4 MHz RBW 300 KHz VBW 300 KHz Sweep Time Auto detector mode Sample Indication mode Max hold OBW 90%

Test Result See: Appendix C



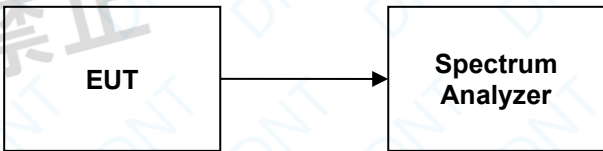
3.8 Antenna Power

Limit:	10mW or less
Text Method:	MIC Notice No.88 Appendix No.43
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Temperature:	23.5 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.0kPa -101.3 kPa
Test Configuration:	 <pre>graph LR; EUT[EUT] --> PM[Power Meter]</pre>
Test Procedure:	1. Test Conditions: Power meter is used for measurement. 2. EUT conditions: Modulation/Spread/Hopping ON, Modulation For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

Test Result See: Appendix D



3.9 Spurious Emissions of TX

Limit:	<table><tr><td>< 2387MHz</td><td>$\leq 2.5\mu\text{W}/\text{MHz}$</td></tr><tr><td>2387 ~ 2400MHz</td><td>$\leq 25\mu\text{W}/\text{MHz}$</td></tr><tr><td>2483.5 ~ 2496.5MHz</td><td>$\leq 25\mu\text{W}/\text{MHz}$</td></tr><tr><td>>2496.5MHz</td><td>$\leq 2.5\mu\text{W}/\text{MHz}$</td></tr></table>	< 2387MHz	$\leq 2.5\mu\text{W}/\text{MHz}$	2387 ~ 2400MHz	$\leq 25\mu\text{W}/\text{MHz}$	2483.5 ~ 2496.5MHz	$\leq 25\mu\text{W}/\text{MHz}$	>2496.5MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
< 2387MHz	$\leq 2.5\mu\text{W}/\text{MHz}$								
2387 ~ 2400MHz	$\leq 25\mu\text{W}/\text{MHz}$								
2483.5 ~ 2496.5MHz	$\leq 25\mu\text{W}/\text{MHz}$								
>2496.5MHz	$\leq 2.5\mu\text{W}/\text{MHz}$								
Text Method:	MIC Notice No.88 Appendix No.43								
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.								
Temperature:	23.5°C								
Humidity:	51 % RH								
Atmospheric Pressure:	101.0kPa -101.3 kPa								
Test Configuration:									
Test Procedure:	- Test Conditions: Spectrum Analyzer is used for measurement. - EUT conditions: Modulation/Spread/Hopping ON For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal. - 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: 30MHz~2400MHz, 2483.5MHz~13GHz 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								

Test Result See: Appendix E



3.10 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

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.

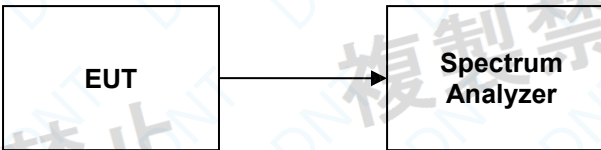
Test Result

RF and Modulation parts are mounted on PCB with surface mount technology





3.11 Spurious Emissions of Rx

Text Method:	MIC Notice No.88 Appendix No.43
Limit:	(1) Below 1 GHz: ≤ 4 nW (2) Above 1 GHz: ≤ 20 nW
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Temperature:	23.5 °C
Humidity:	56 % RH
Atmospheric Pressure:	101.0kPa -101.3 kPa
Test Configuration:	 <pre>graph LR; EUT[EUT] --> SA[Spectrum Analyzer]</pre>
Test Procedure:	- Test Conditions: Spectrum Analyzer is used for measurement. - EUT conditions: Modulation/Spread/Hopping ON For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal - 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

Test Result See: Appendix F



4 Appendix

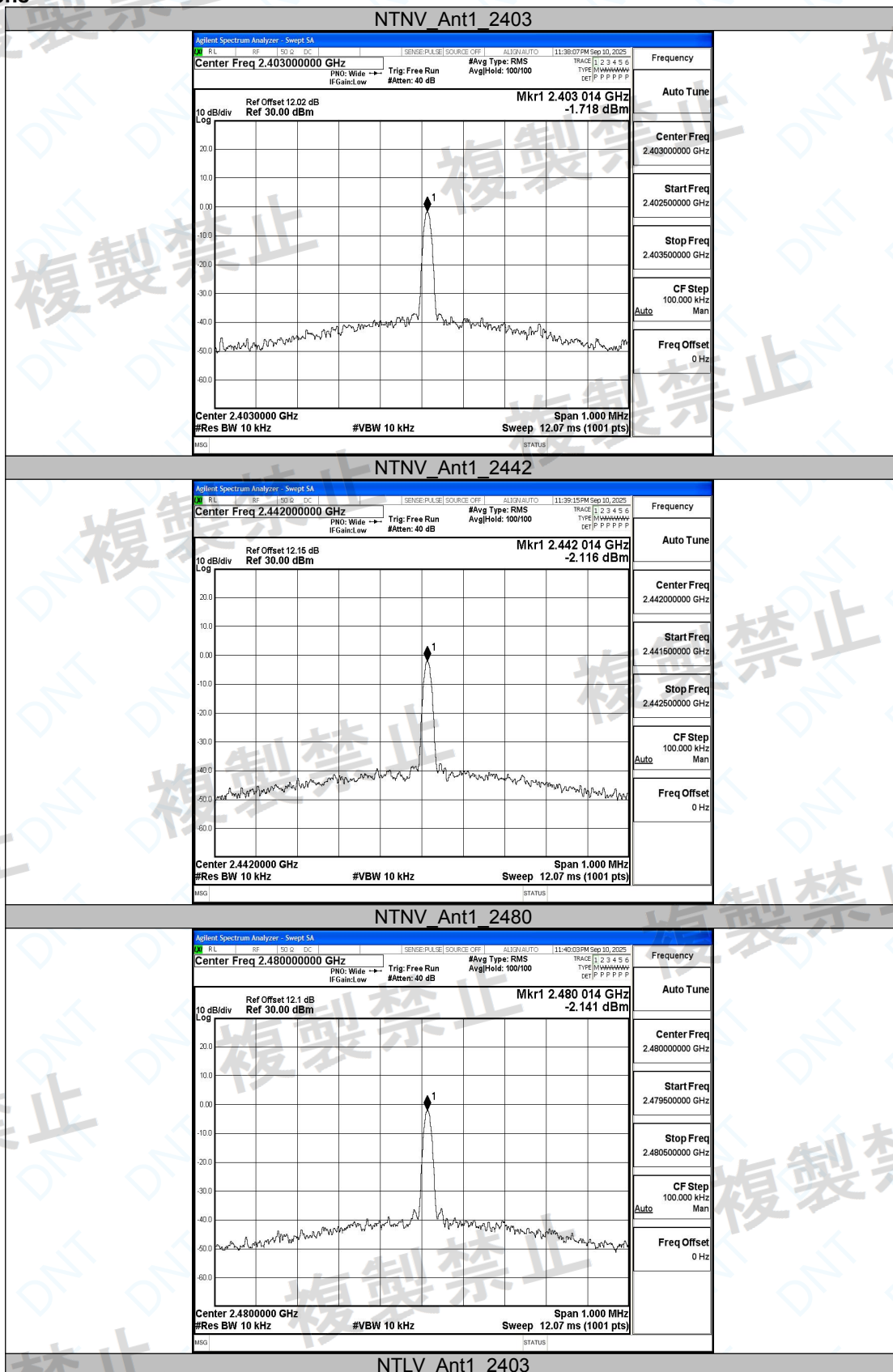
Appendix A: Frequency Error

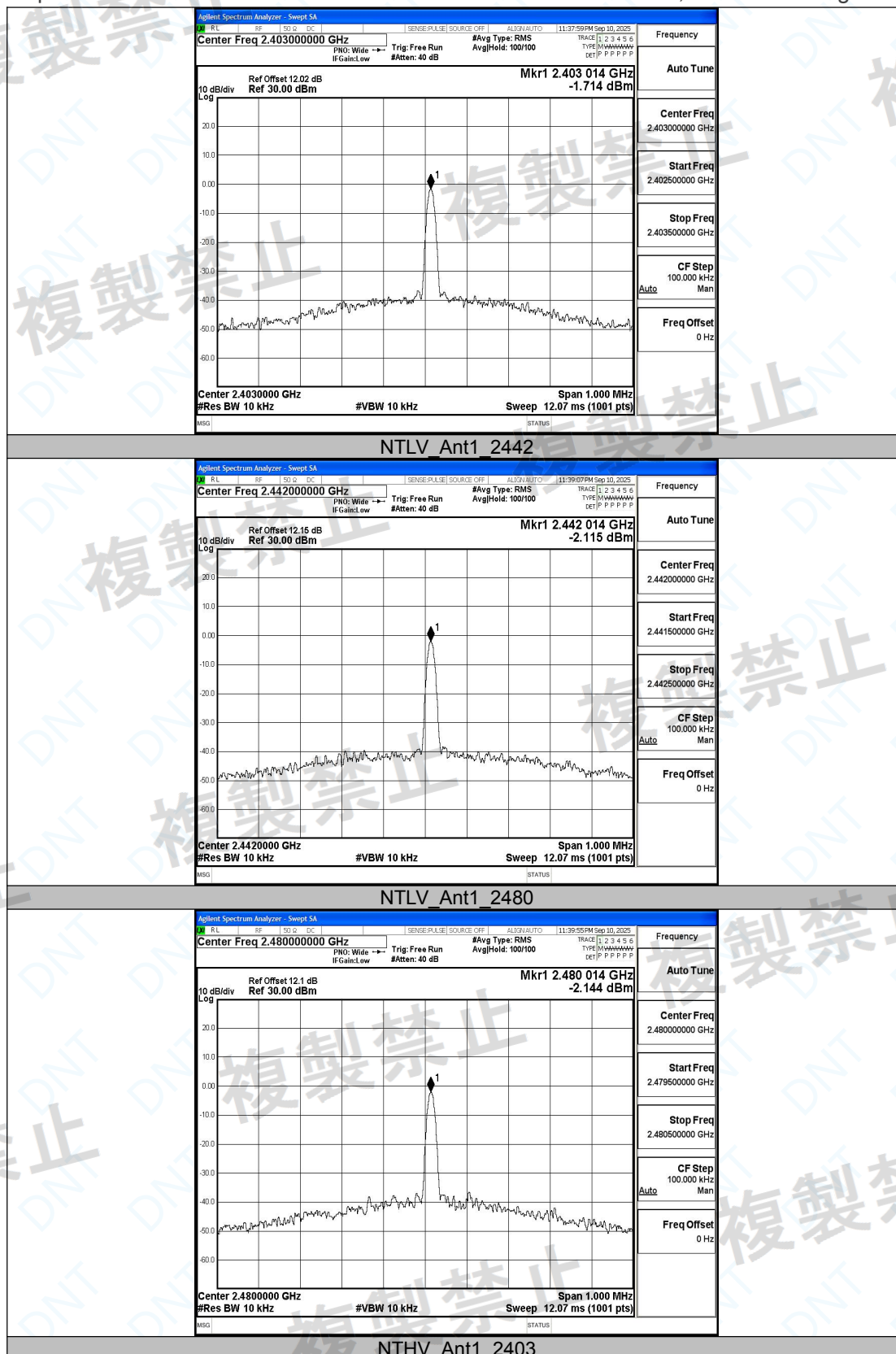
Test Result

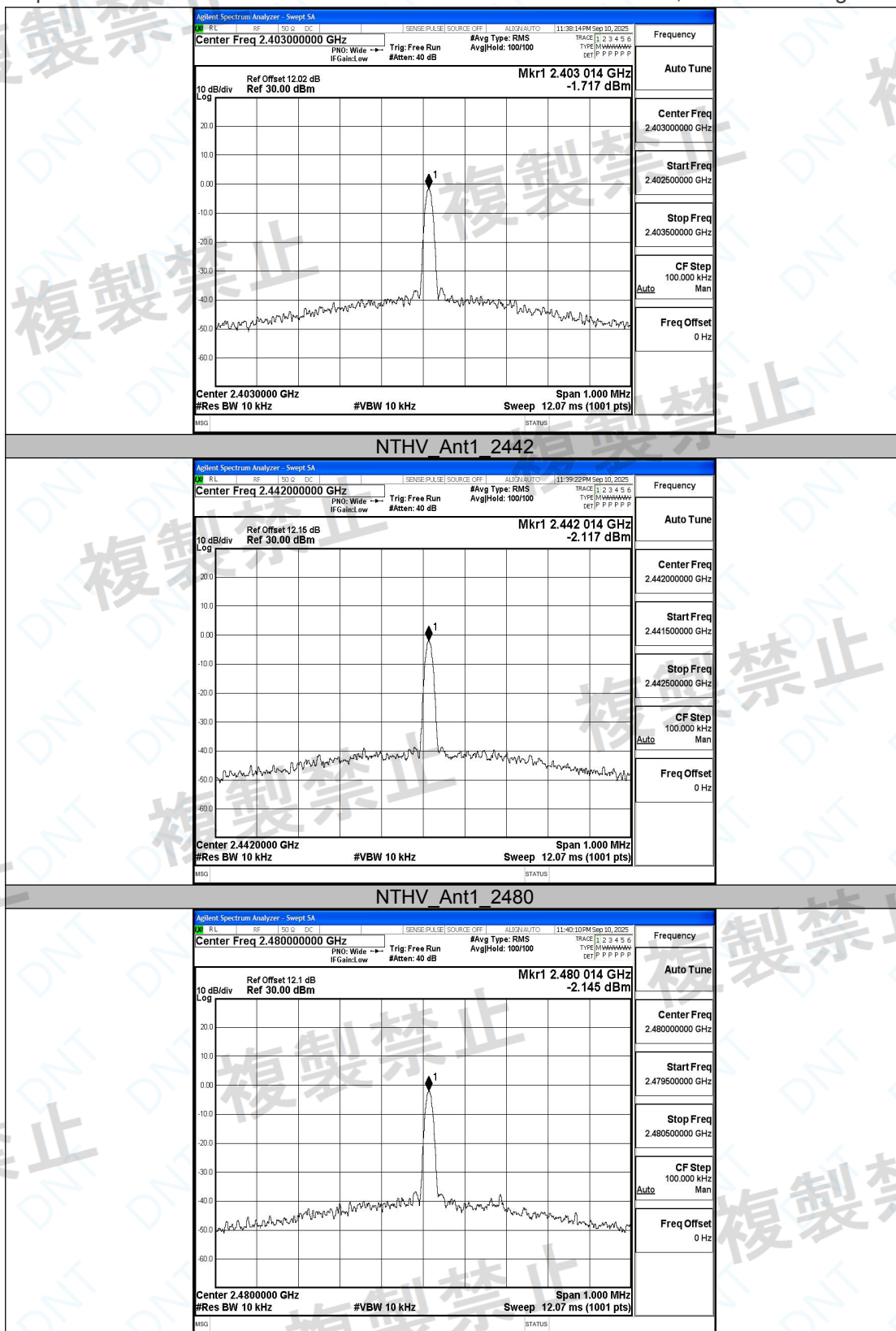
TestCondition	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Ant1	2403	5.82605	±50	PASS
		2442	5.73301	±50	PASS
		2480	5.64516	±50	PASS
NTLV	Ant1	2403	5.82605	±50	PASS
		2442	5.73301	±50	PASS
		2480	5.64516	±50	PASS
NTHV	Ant1	2403	5.82605	±50	PASS
		2442	5.73301	±50	PASS
		2480	5.64516	±50	PASS



Test Graphs





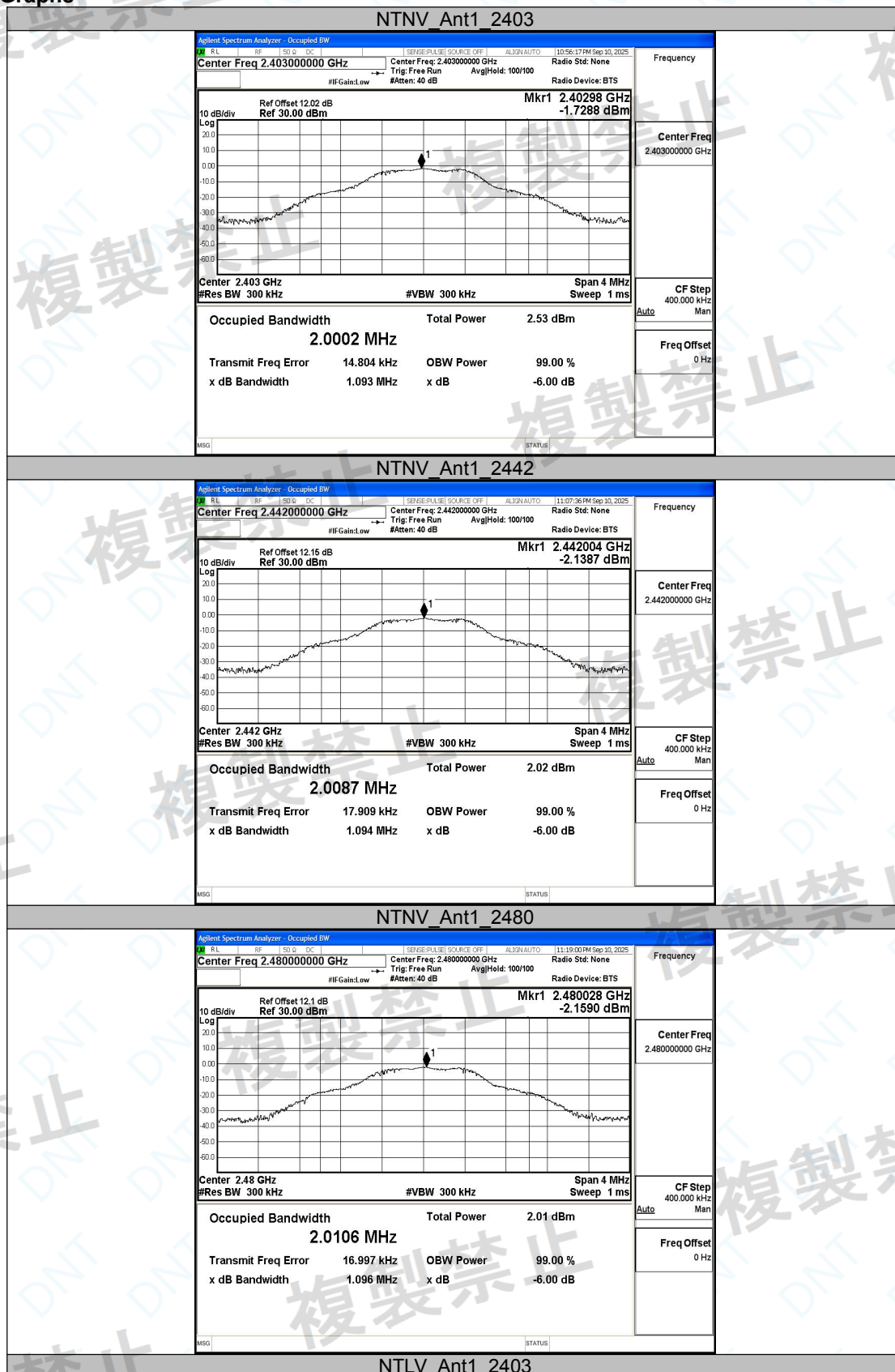


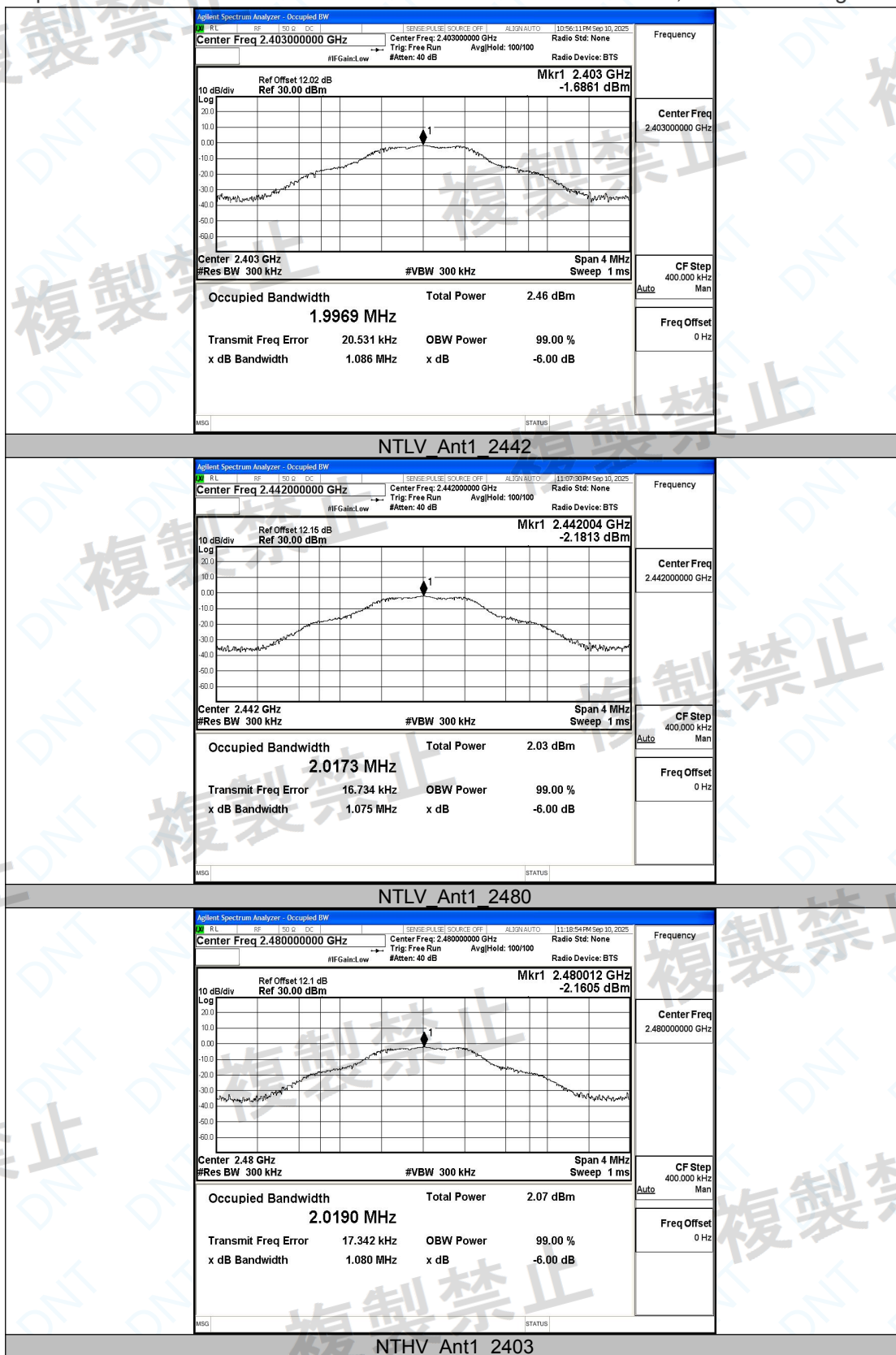
**Appendix B: Occupied Bandwidth****Test Result**

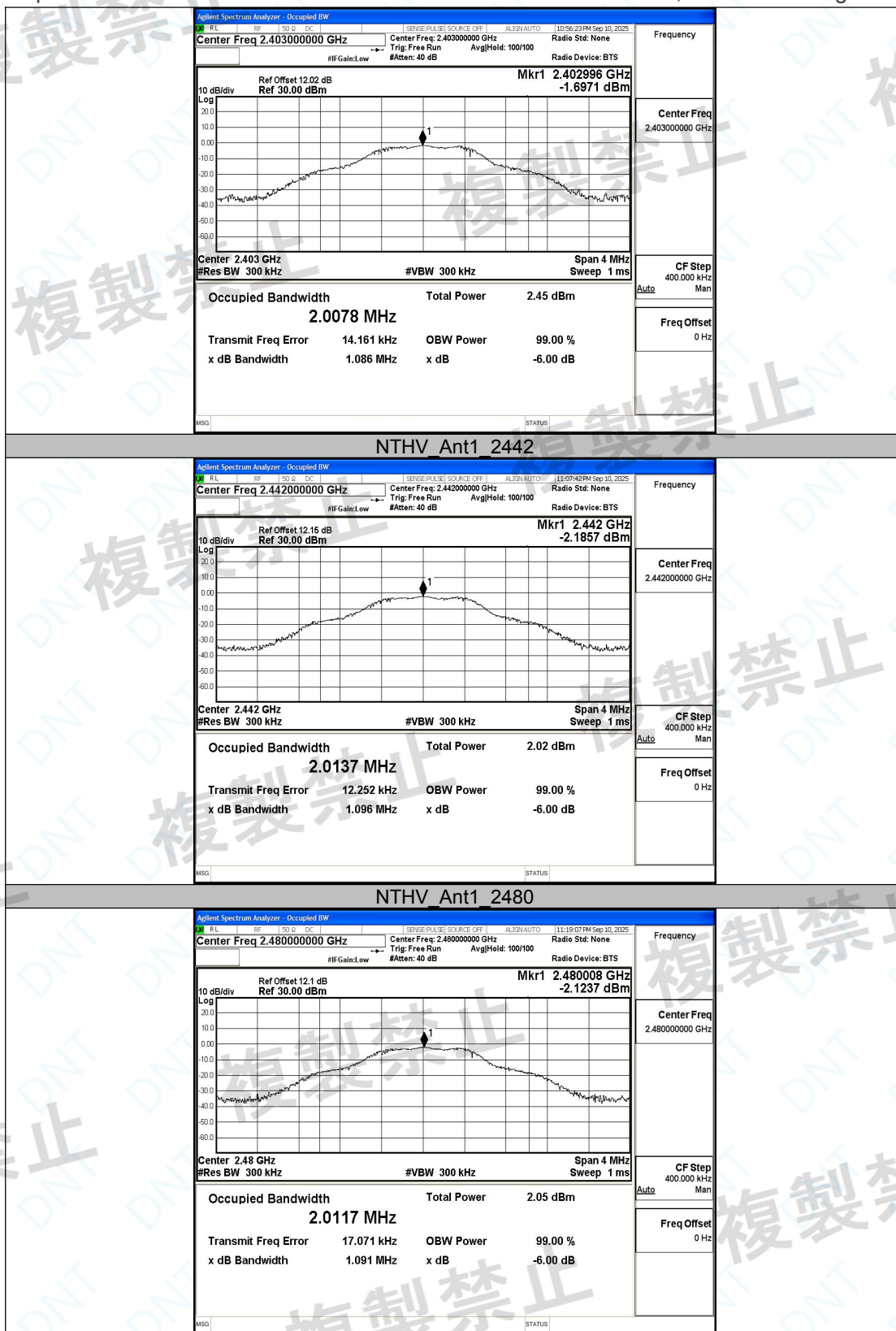
TestCondition	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	Ant1	2403	2.000	≤26	PASS
		2442	2.009	≤26	PASS
		2480	2.011	≤26	PASS
NTLV	Ant1	2403	1.997	≤26	PASS
		2442	2.017	≤26	PASS
		2480	2.019	≤26	PASS
NTHV	Ant1	2403	2.008	≤26	PASS
		2442	2.014	≤26	PASS
		2480	2.012	≤26	PASS



Test Graphs





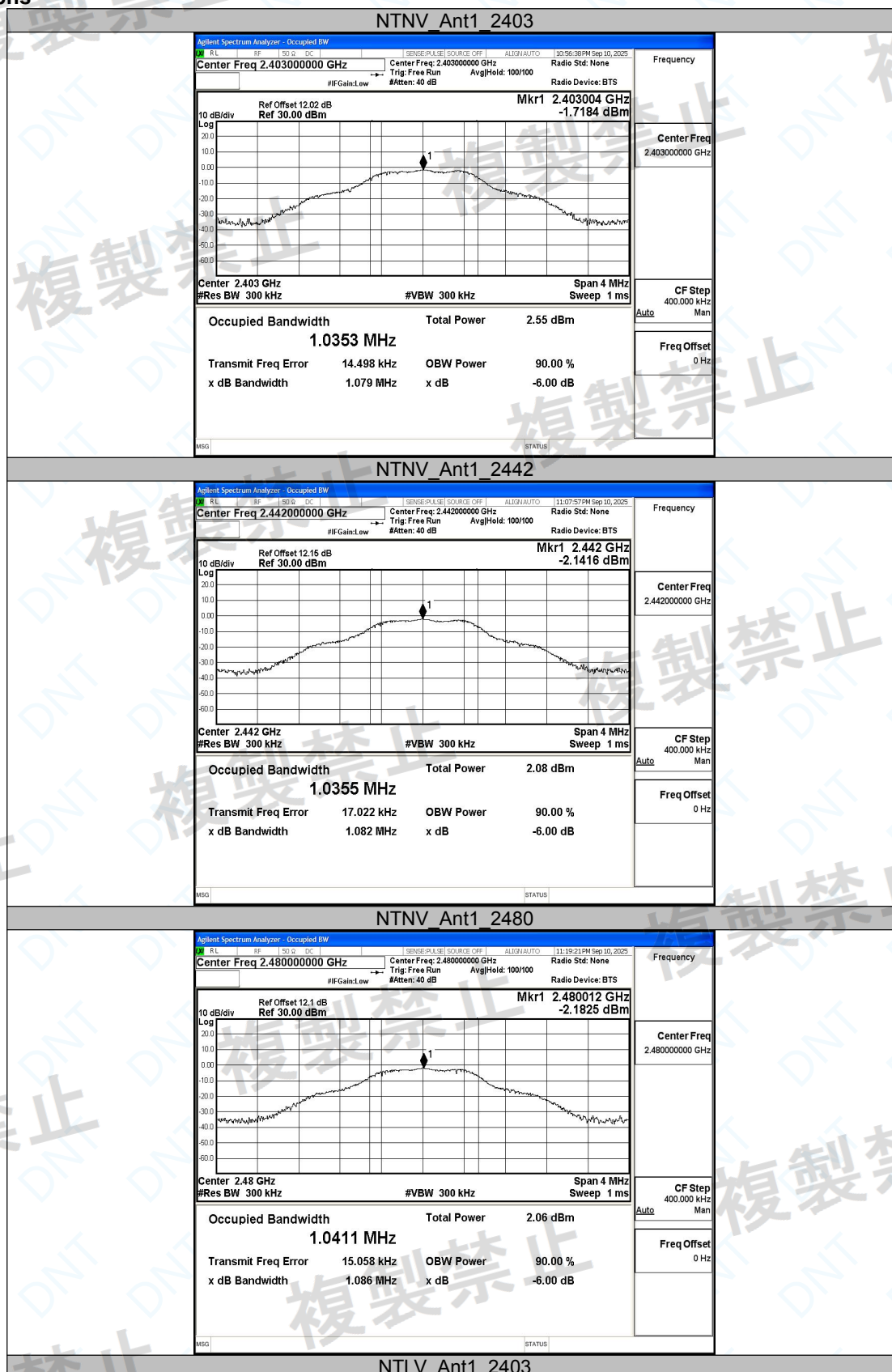


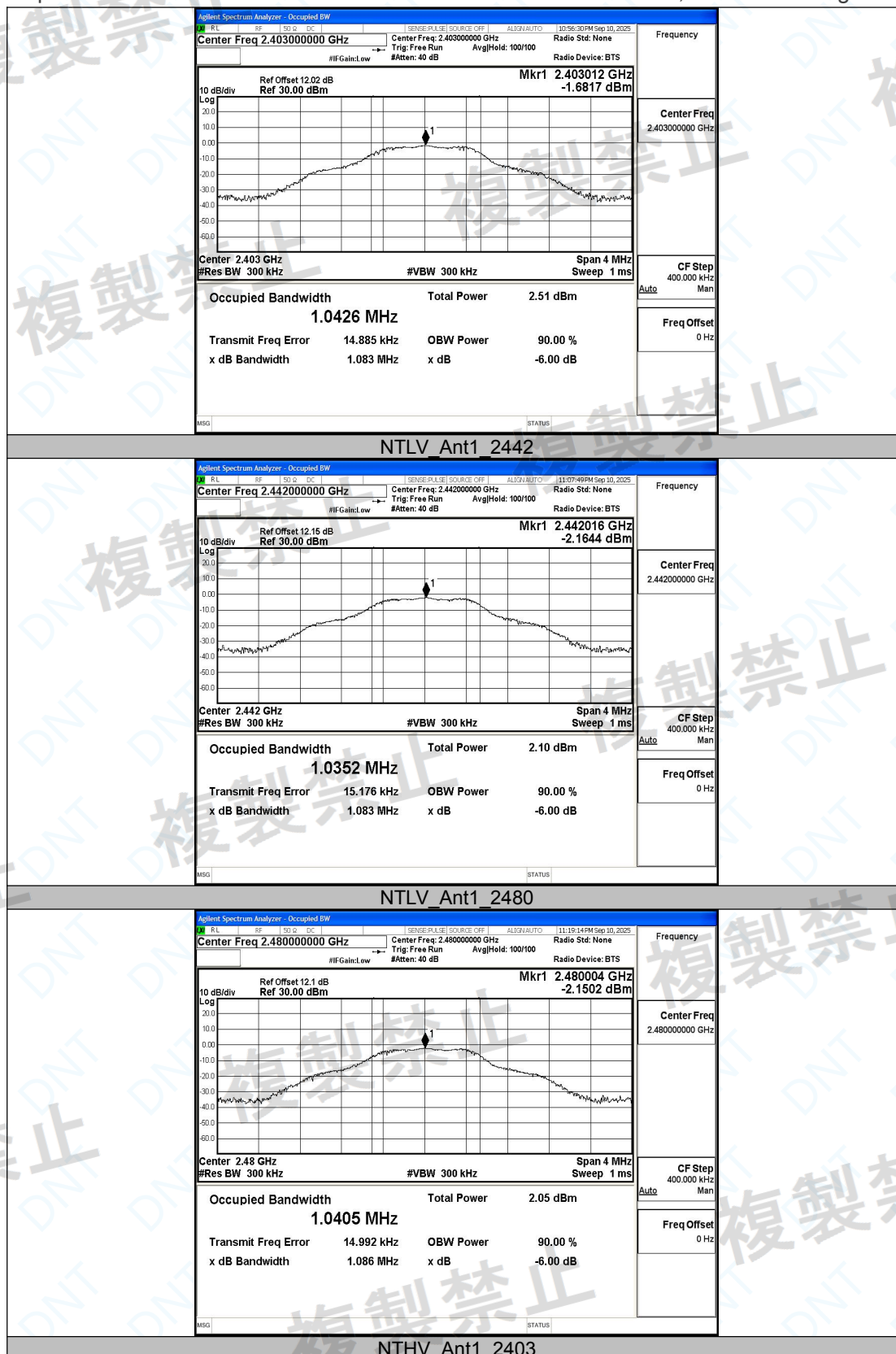
**Appendix C: Spread Bandwidth****Test Result**

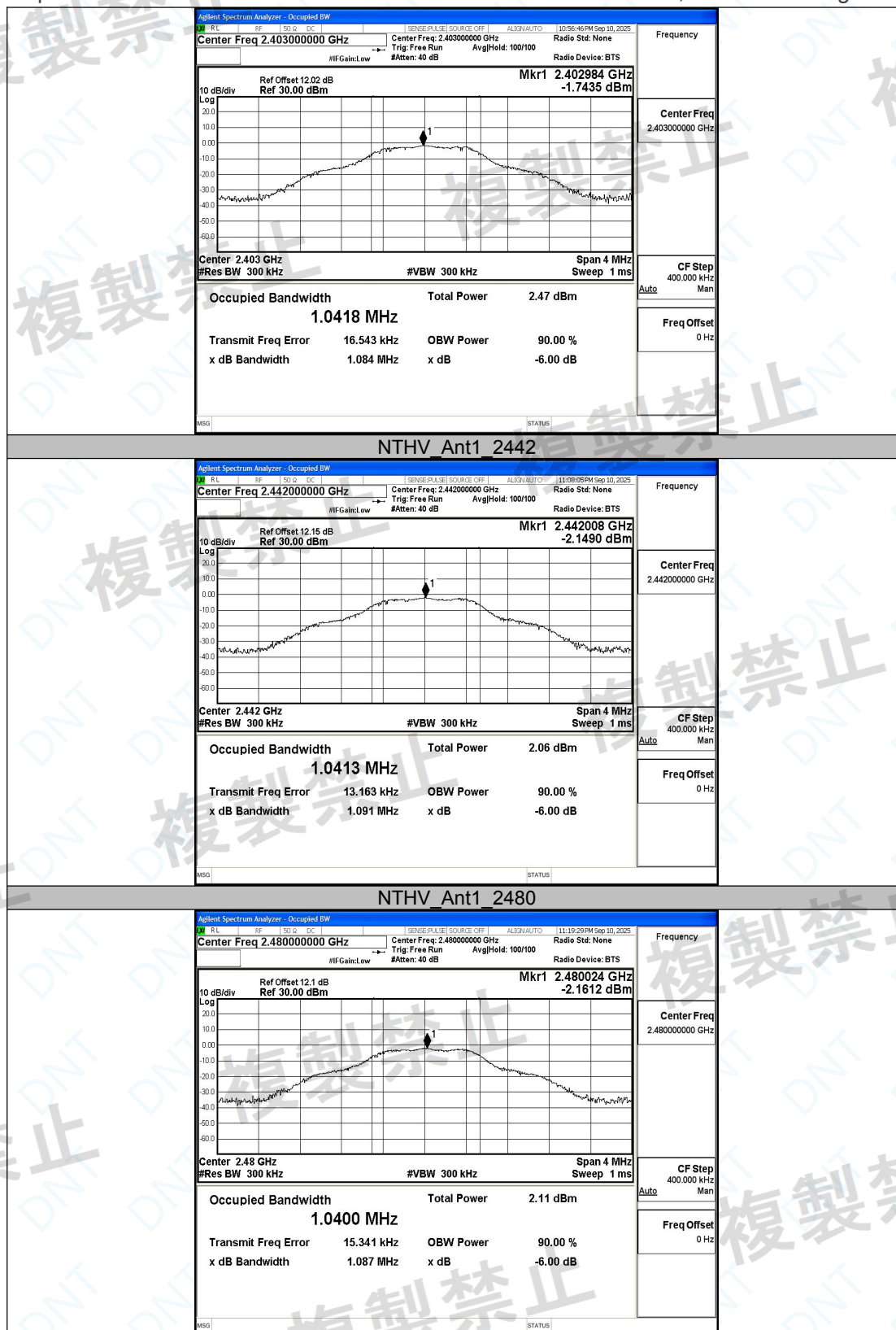
TestCondition	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	Ant1	2403	1.035	≥ 0.5	PASS
		2442	1.036	≥ 0.5	PASS
		2480	1.041	≥ 0.5	PASS
NTLV	Ant1	2403	1.043	≥ 0.5	PASS
		2442	1.035	≥ 0.5	PASS
		2480	1.041	≥ 0.5	PASS
NTHV	Ant1	2403	1.042	≥ 0.5	PASS
		2442	1.041	≥ 0.5	PASS
		2480	1.040	≥ 0.5	PASS



Test Graphs







**Appendix D: Antenna Power****Test Result**

Test Condition	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	Ant1	2403	-3.44	0.4529	≤10	PASS
		2442	-4.19	0.3811	≤10	PASS
		2480	-3.94	0.4036	≤10	PASS
NTLV	Ant1	2403	-3.50	0.4467	≤10	PASS
		2442	-3.99	0.3990	≤10	PASS
		2480	-3.94	0.4036	≤10	PASS
NTHV	Ant1	2403	-3.55	0.4416	≤10	PASS
		2442	-2.94	0.5082	≤10	PASS
		2480	-2.95	0.5070	≤10	PASS

Test Condition	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	Ant1	2403	0.4529	1	-54.71	+20	PASS
		2442	0.3811	1	-61.89	+20	PASS
		2480	0.4036	1	-59.64	+20	PASS
NTLV	Ant1	2403	0.4467	1	-55.33	+20	PASS
		2442	0.3990	1	-60.10	+20	PASS
		2480	0.4036	1	-59.64	+20	PASS
NTHV	Ant1	2403	0.4416	1	-55.84	+20	PASS
		2442	0.5082	1	-49.18	+20	PASS
		2480	0.5070	1	-49.30	+20	PASS

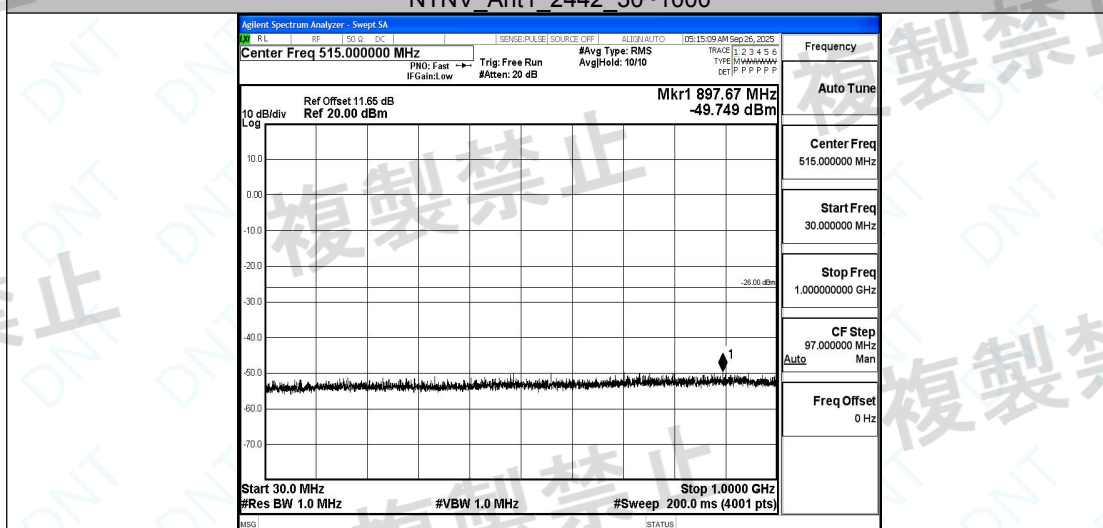
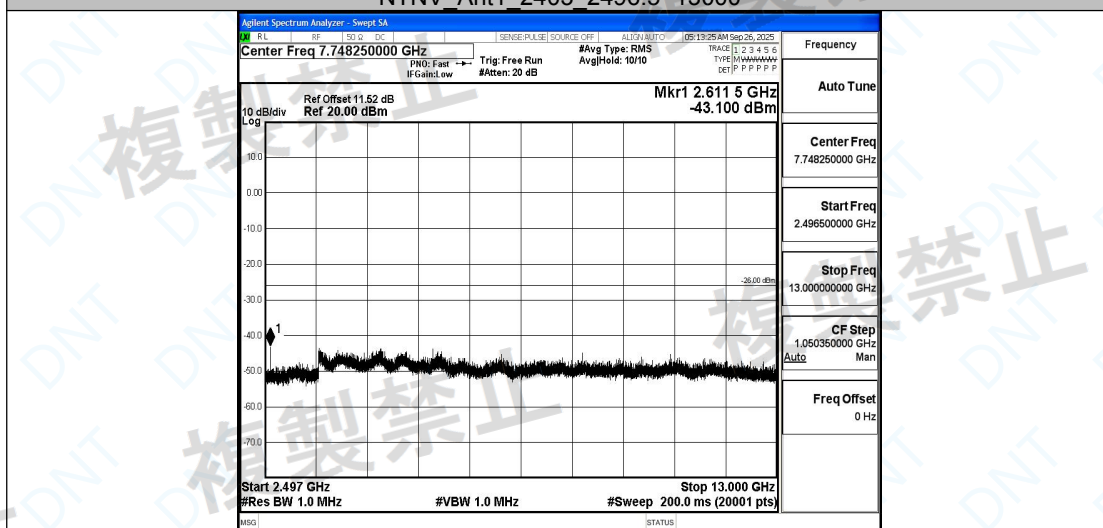
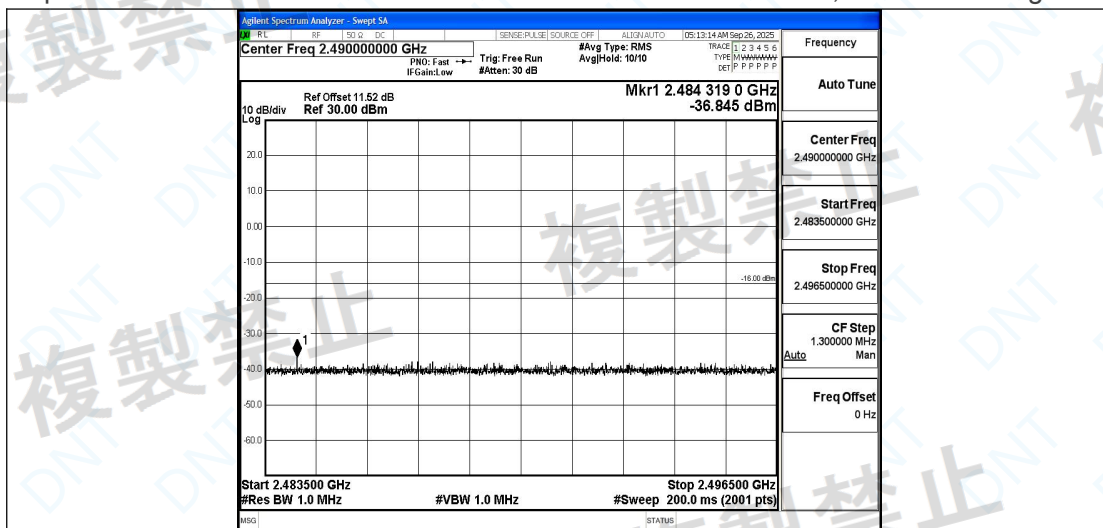
**Appendix E: Spurious Emission of TX****Test Result**

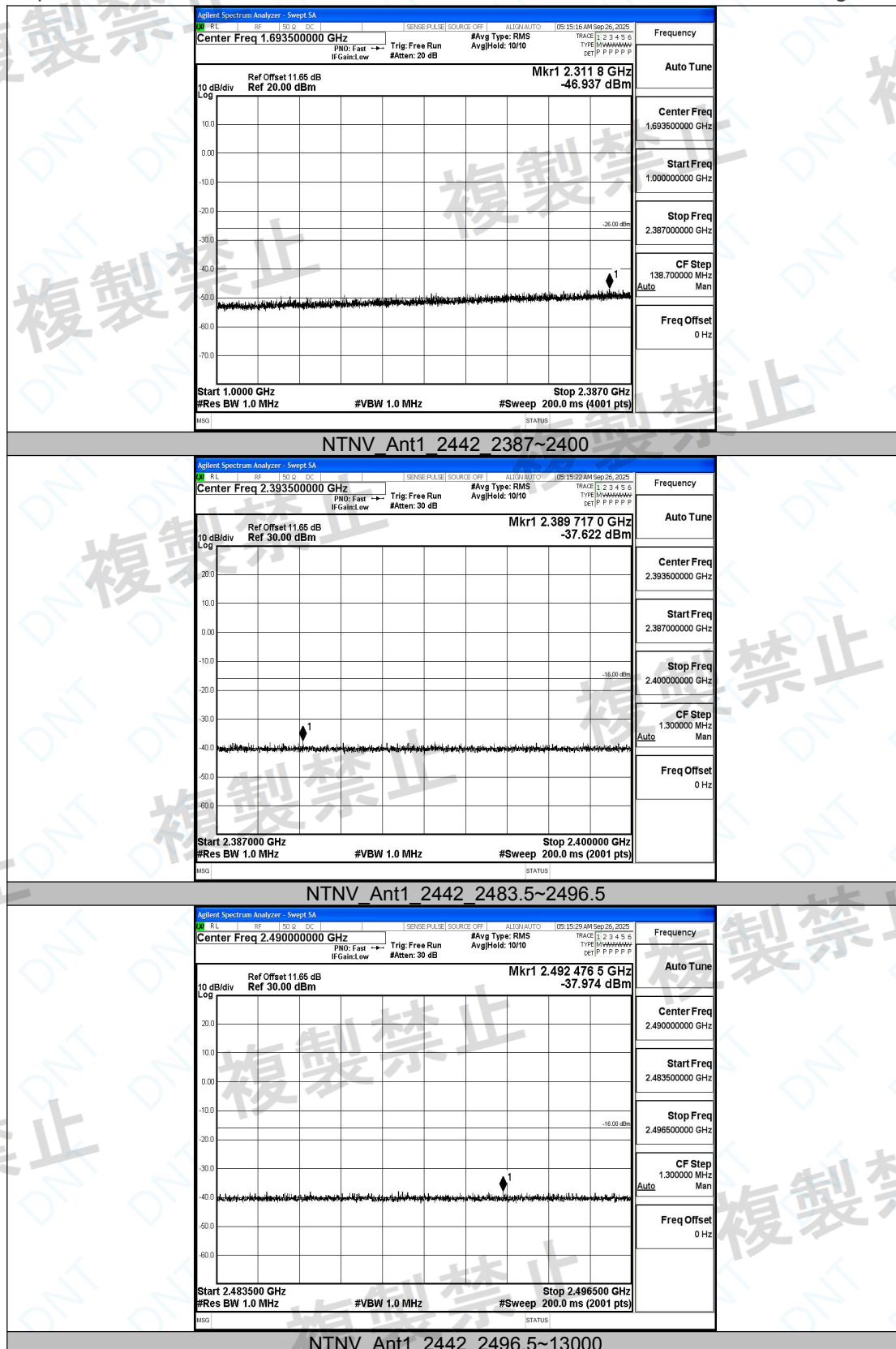
TestCondition	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	Ant1	2403	30~1000	911.25	-49.51	≤-26	0.01119	≤2.5	PASS
			1000~2387	2376.25	-46.74	≤-26	0.02118	≤2.5	PASS
			2387~2400	2395.07	-37.93	≤-16	0.16106	≤25	PASS
			2483.5~2496.5	2484.32	-36.85	≤-16	0.20654	≤25	PASS
			2496.5~13000	2611.51	-43.10	≤-26	0.04898	≤2.5	PASS
		2442	30~1000	897.67	-49.75	≤-26	0.01059	≤2.5	PASS
			1000~2387	2311.76	-46.94	≤-26	0.02023	≤2.5	PASS
			2387~2400	2389.72	-37.62	≤-16	0.17298	≤25	PASS
			2483.5~2496.5	2492.48	-37.97	≤-16	0.15959	≤25	PASS
			2496.5~13000	3680.24	-42.91	≤-26	0.05117	≤2.5	PASS
		2480	30~1000	852.80	-49.35	≤-26	0.01161	≤2.5	PASS
			1000~2387	2261.48	-47.14	≤-26	0.01932	≤2.5	PASS
			2387~2400	2399.83	-38.03	≤-16	0.15740	≤25	PASS
			2483.5~2496.5	2488.31	-37.45	≤-16	0.17989	≤25	PASS
			2496.5~13000	3630.88	-43.65	≤-26	0.04315	≤2.5	PASS
NTLV	Ant1	2403	30~1000	921.92	-49.13	≤-26	0.01222	≤2.5	PASS
			1000~2387	2384.92	-46.92	≤-26	0.02032	≤2.5	PASS
			2387~2400	2393.36	-37.71	≤-16	0.16943	≤25	PASS
			2483.5~2496.5	2492.70	-38.11	≤-16	0.15453	≤25	PASS
			2496.5~13000	4857.69	-43.05	≤-26	0.04955	≤2.5	PASS
		2442	30~1000	825.16	-49.69	≤-26	0.01074	≤2.5	PASS
			1000~2387	2314.88	-46.40	≤-26	0.02291	≤2.5	PASS
			2387~2400	2393.05	-37.65	≤-16	0.17179	≤25	PASS
			2483.5~2496.5	2496.33	-37.44	≤-16	0.18030	≤25	PASS
			2496.5~13000	4851.38	-43.48	≤-26	0.04487	≤2.5	PASS
		2480	30~1000	888.21	-49.73	≤-26	0.01064	≤2.5	PASS
			1000~2387	2229.23	-46.72	≤-26	0.02128	≤2.5	PASS
			2387~2400	2388.74	-37.37	≤-16	0.18323	≤25	PASS
			2483.5~2496.5	2492.46	-37.09	≤-16	0.19543	≤25	PASS
			2496.5~13000	3630.35	-42.96	≤-26	0.05058	≤2.5	PASS
NTHV	Ant1	2403	30~1000	918.04	-49.91	≤-26	0.01021	≤2.5	PASS
			1000~2387	2289.56	-47.24	≤-26	0.01888	≤2.5	PASS
			2387~2400	2390.45	-38.25	≤-16	0.14962	≤25	PASS
			2483.5~2496.5	2488.60	-37.85	≤-16	0.16406	≤25	PASS
			2496.5~13000	3621.95	-43.70	≤-26	0.04266	≤2.5	PASS
		2442	30~1000	774.23	-49.27	≤-26	0.01183	≤2.5	PASS
			1000~2387	2382.49	-46.51	≤-26	0.02234	≤2.5	PASS
			2387~2400	2390.91	-37.75	≤-16	0.16788	≤25	PASS
			2483.5~2496.5	2491.17	-37.90	≤-16	0.16218	≤25	PASS
			2496.5~13000	5268.90	-43.18	≤-26	0.04808	≤2.5	PASS
		2480	30~1000	945.92	-49.91	≤-26	0.01021	≤2.5	PASS
			1000~2387	2200.10	-46.43	≤-26	0.02275	≤2.5	PASS
			2387~2400	2398.91	-37.30	≤-16	0.18621	≤25	PASS
			2483.5~2496.5	2488.19	-37.50	≤-16	0.17783	≤25	PASS
			2496.5~13000	4913.88	-43.31	≤-26	0.04667	≤2.5	PASS

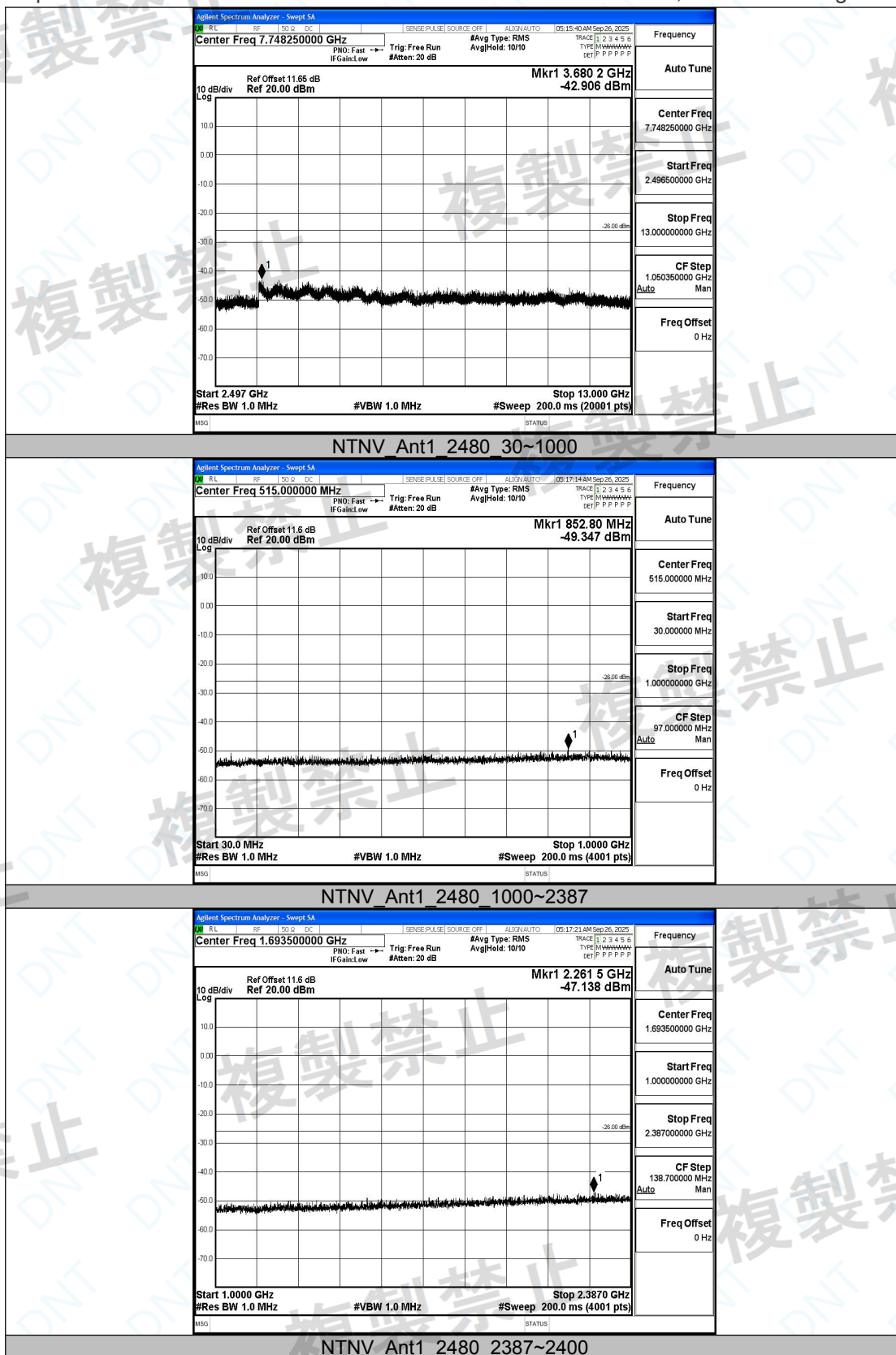


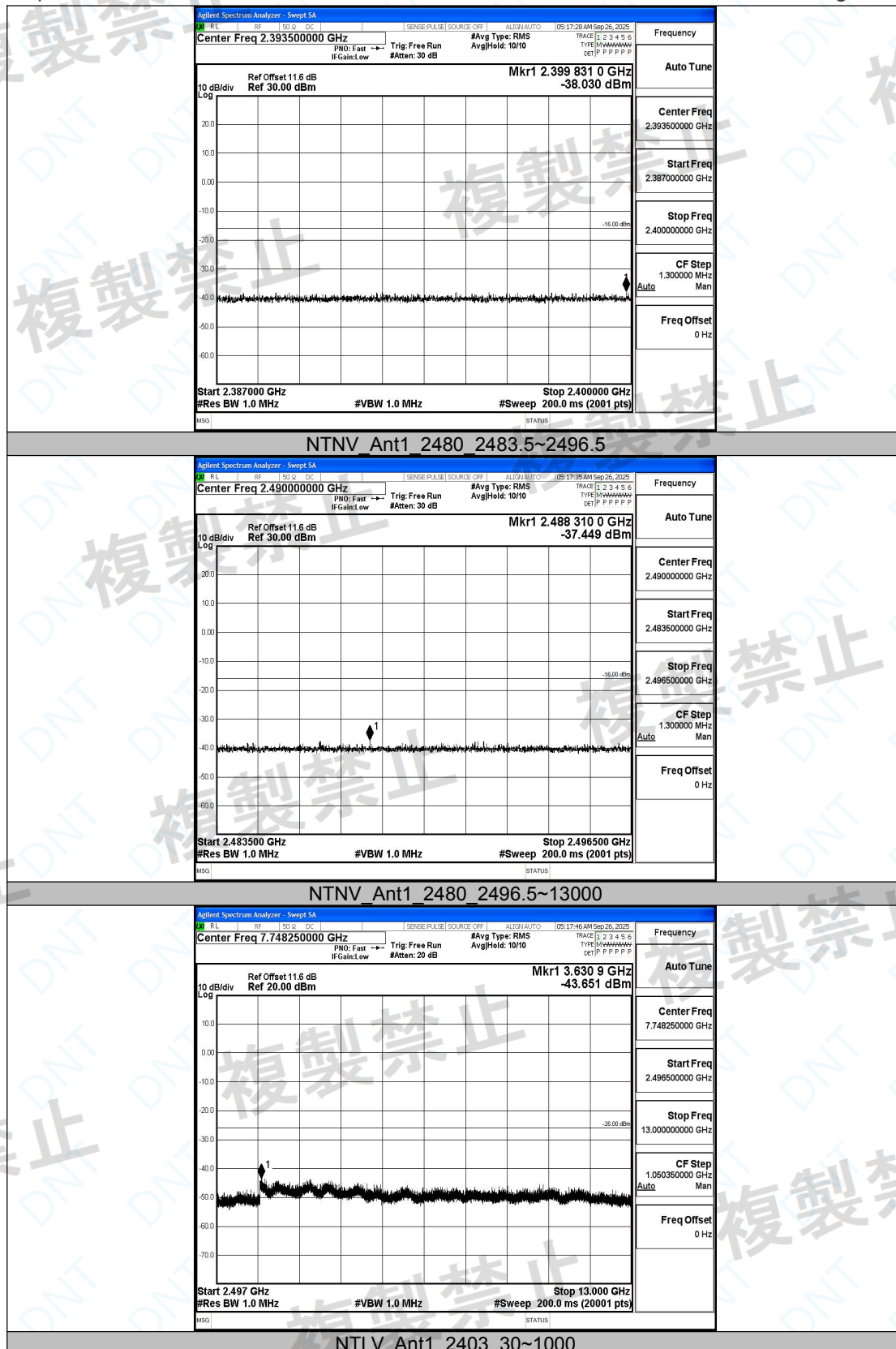
Test Graphs

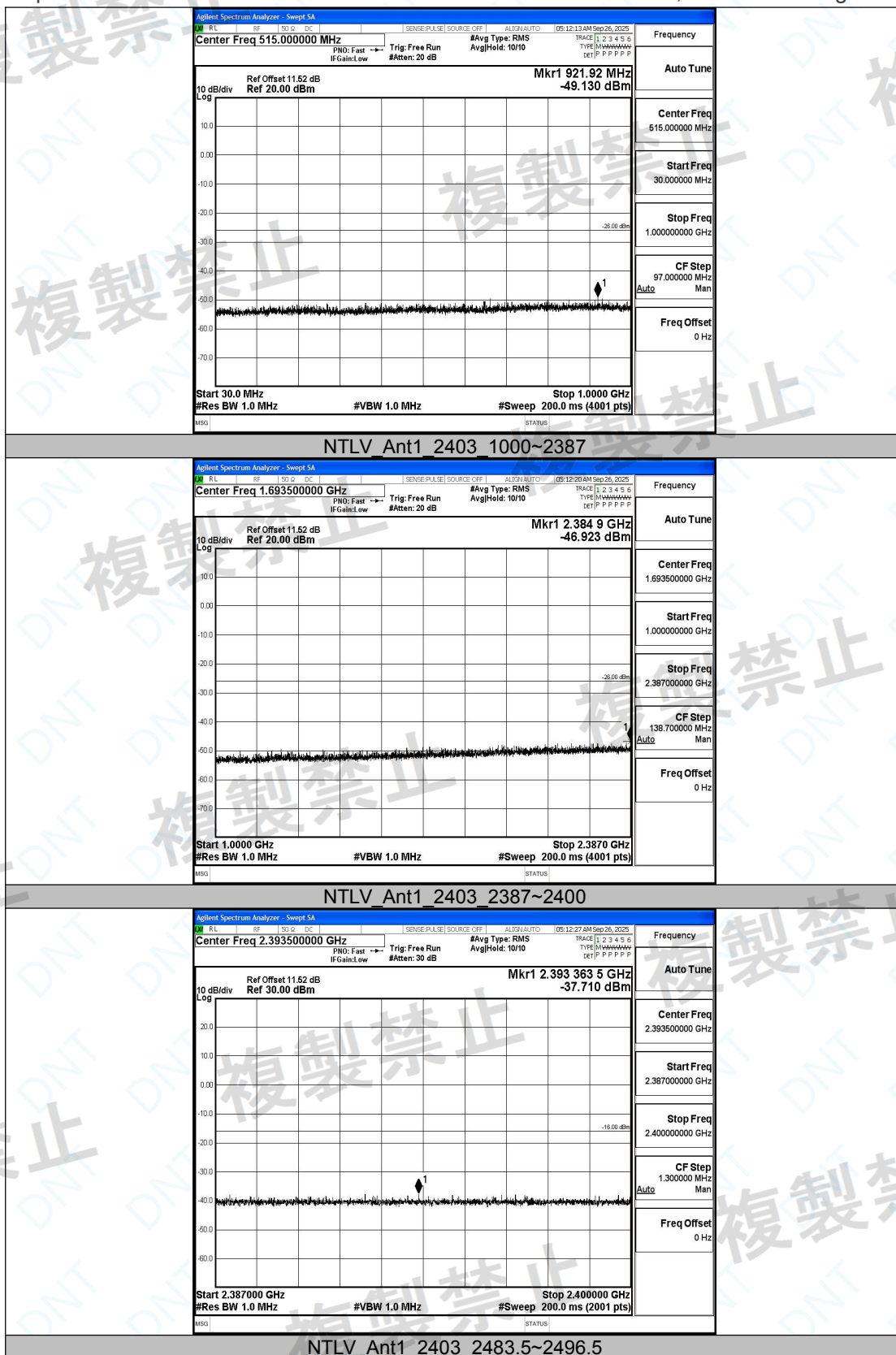


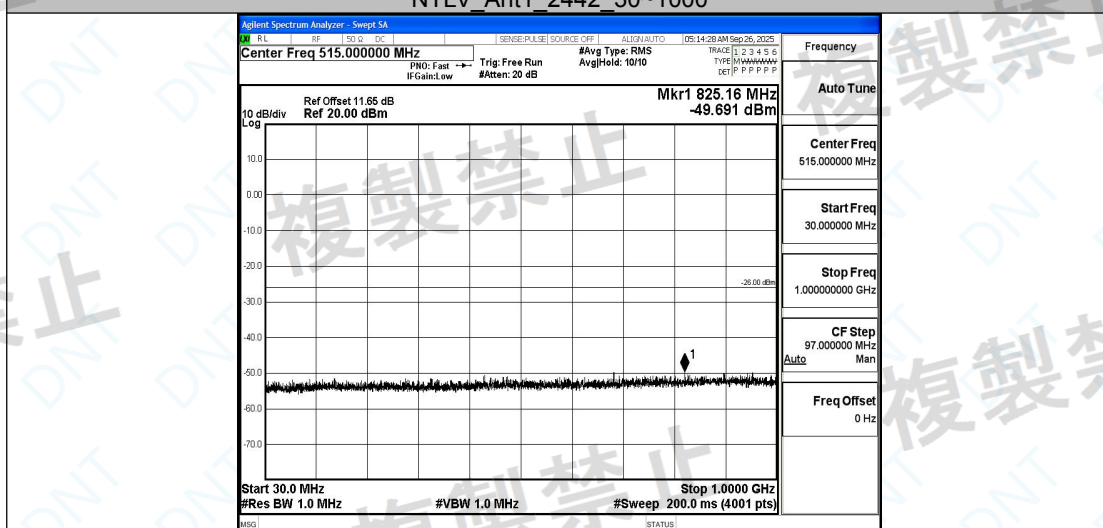
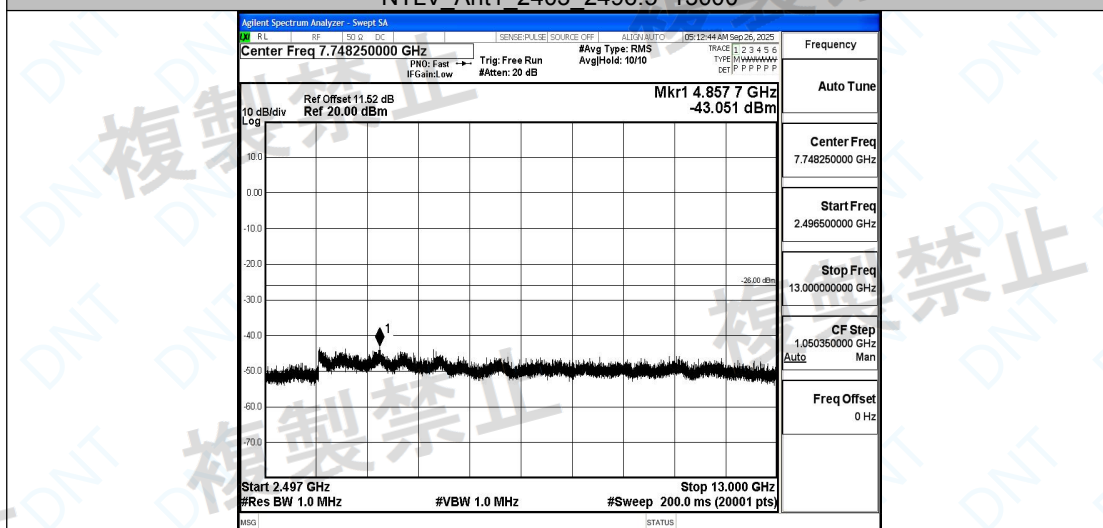
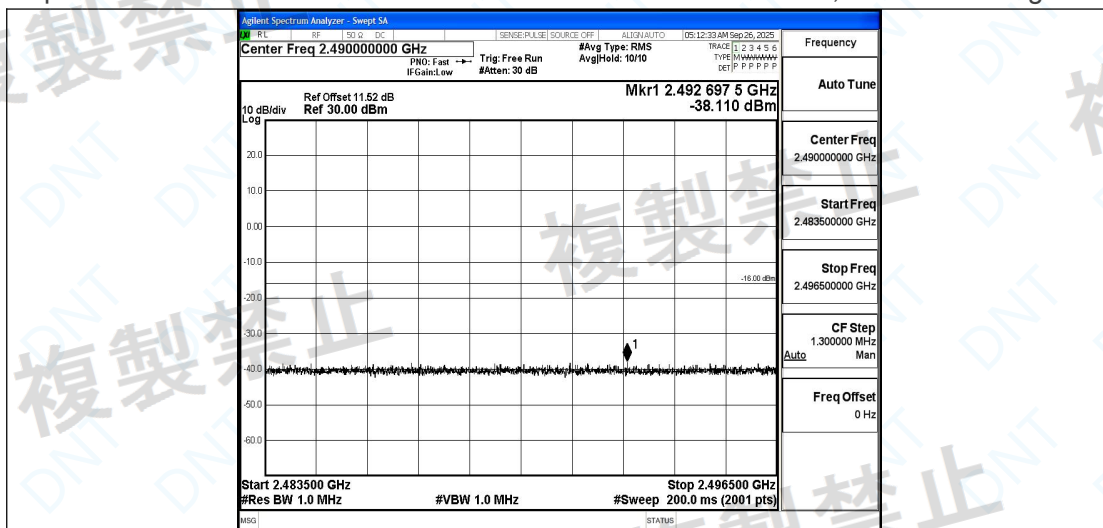


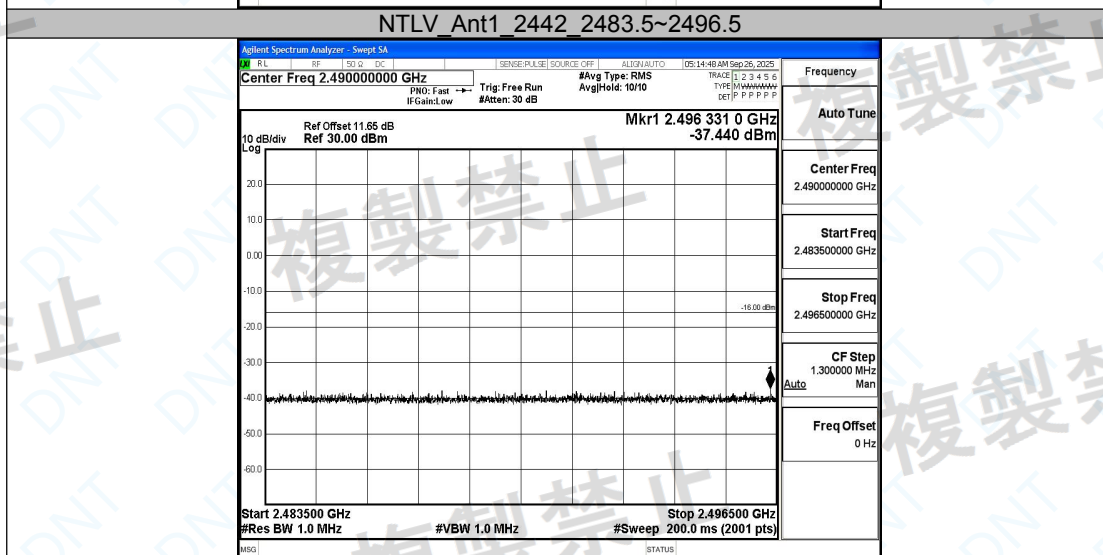
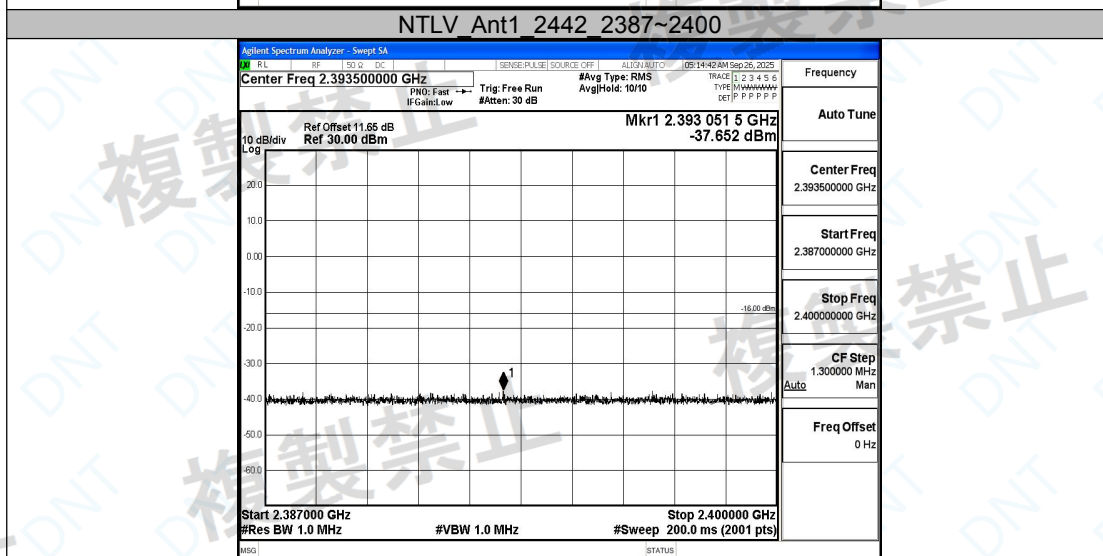
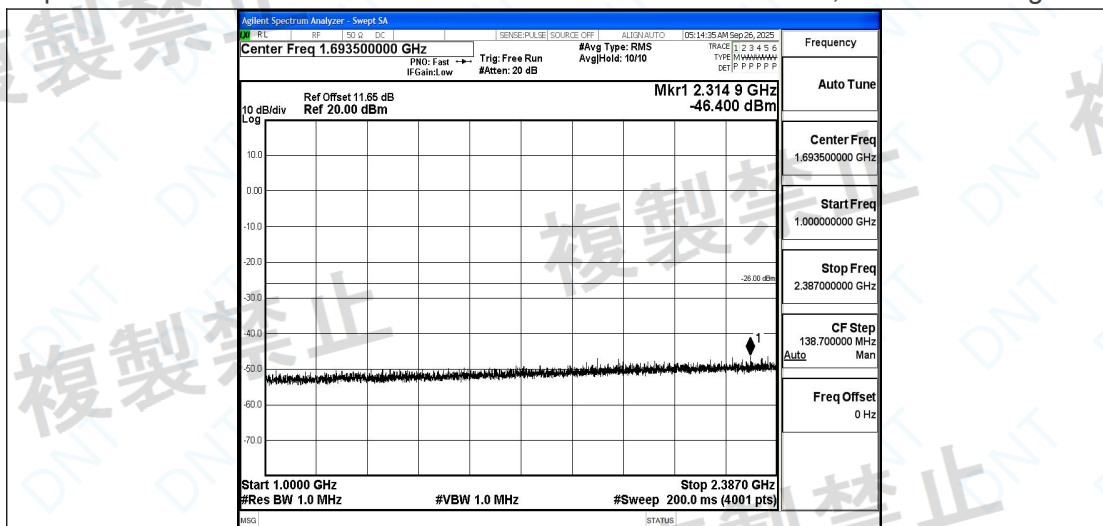


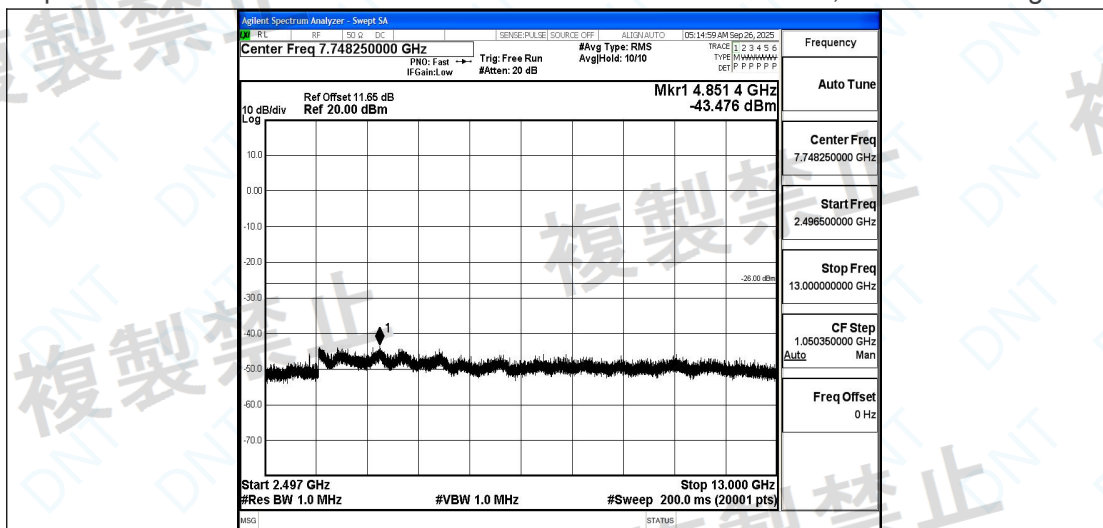




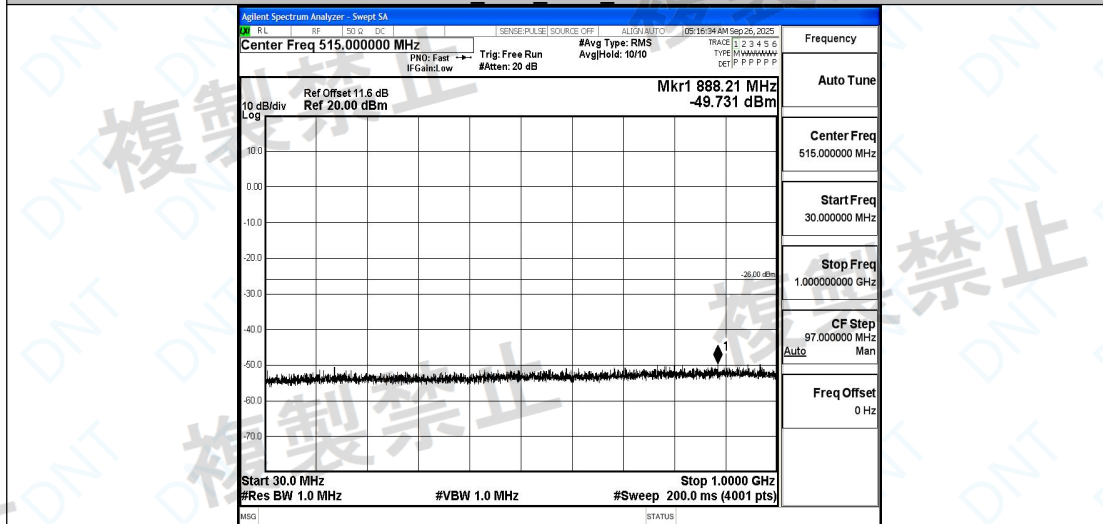




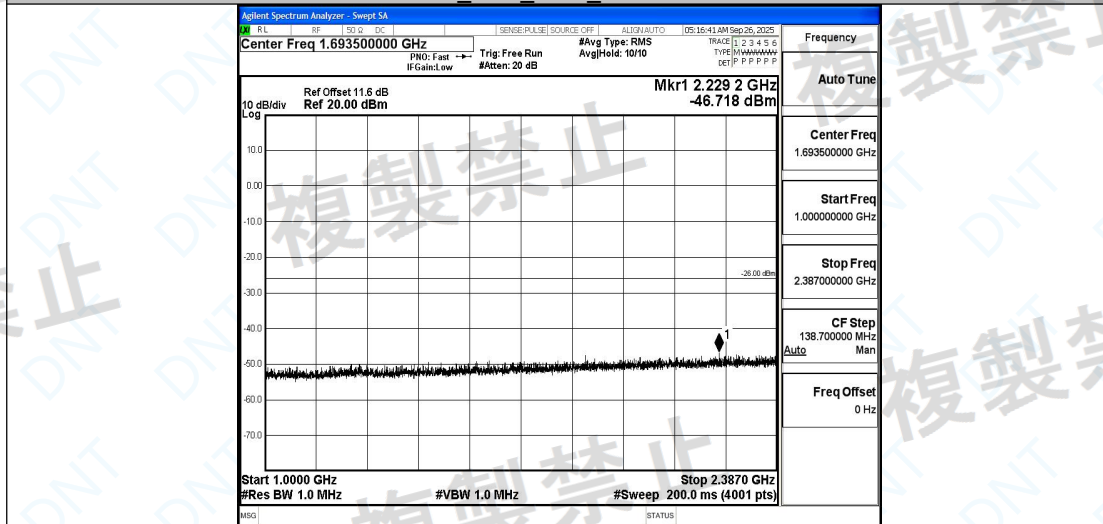




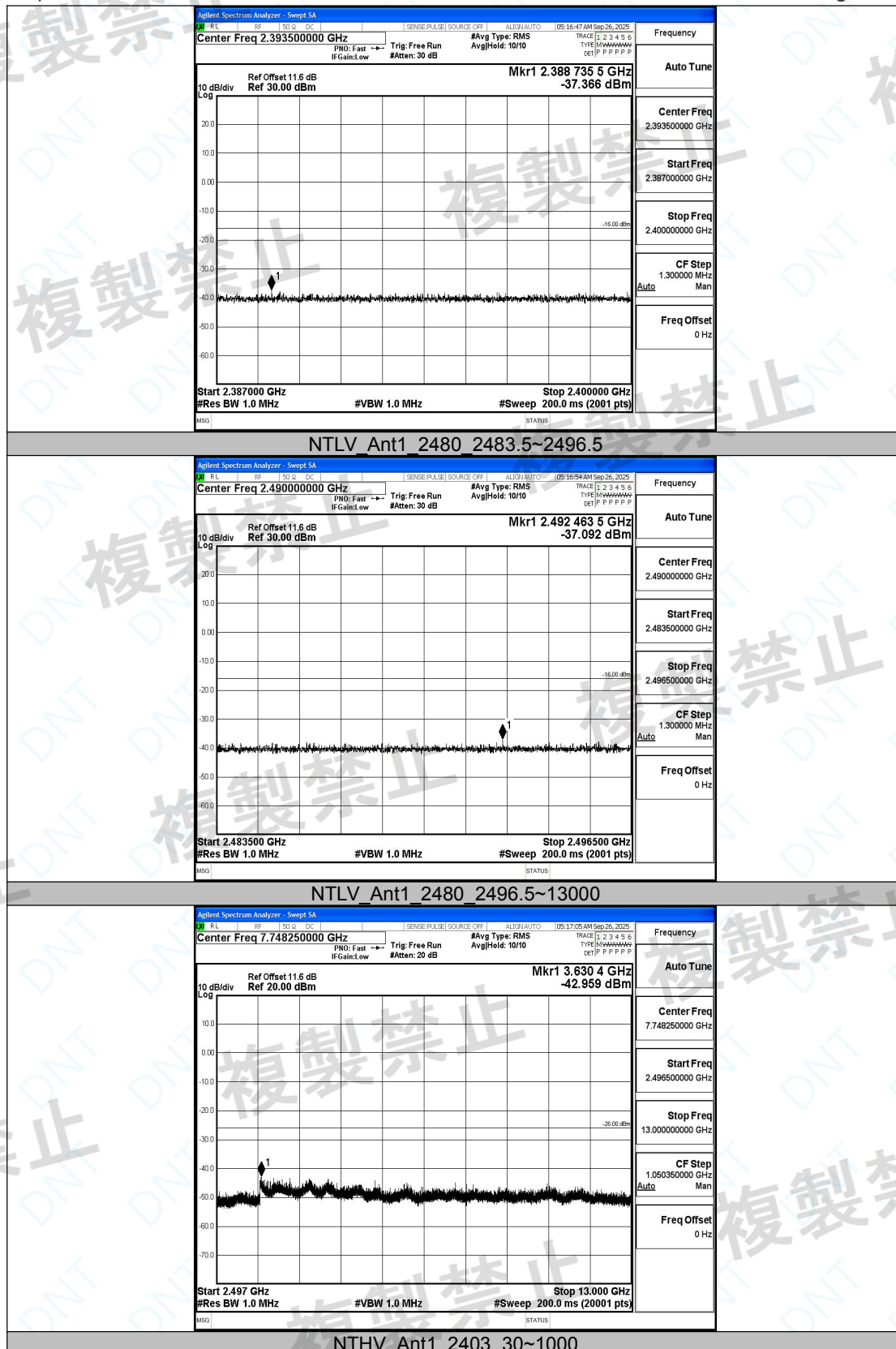
NTLV Ant1 2480 30~1000

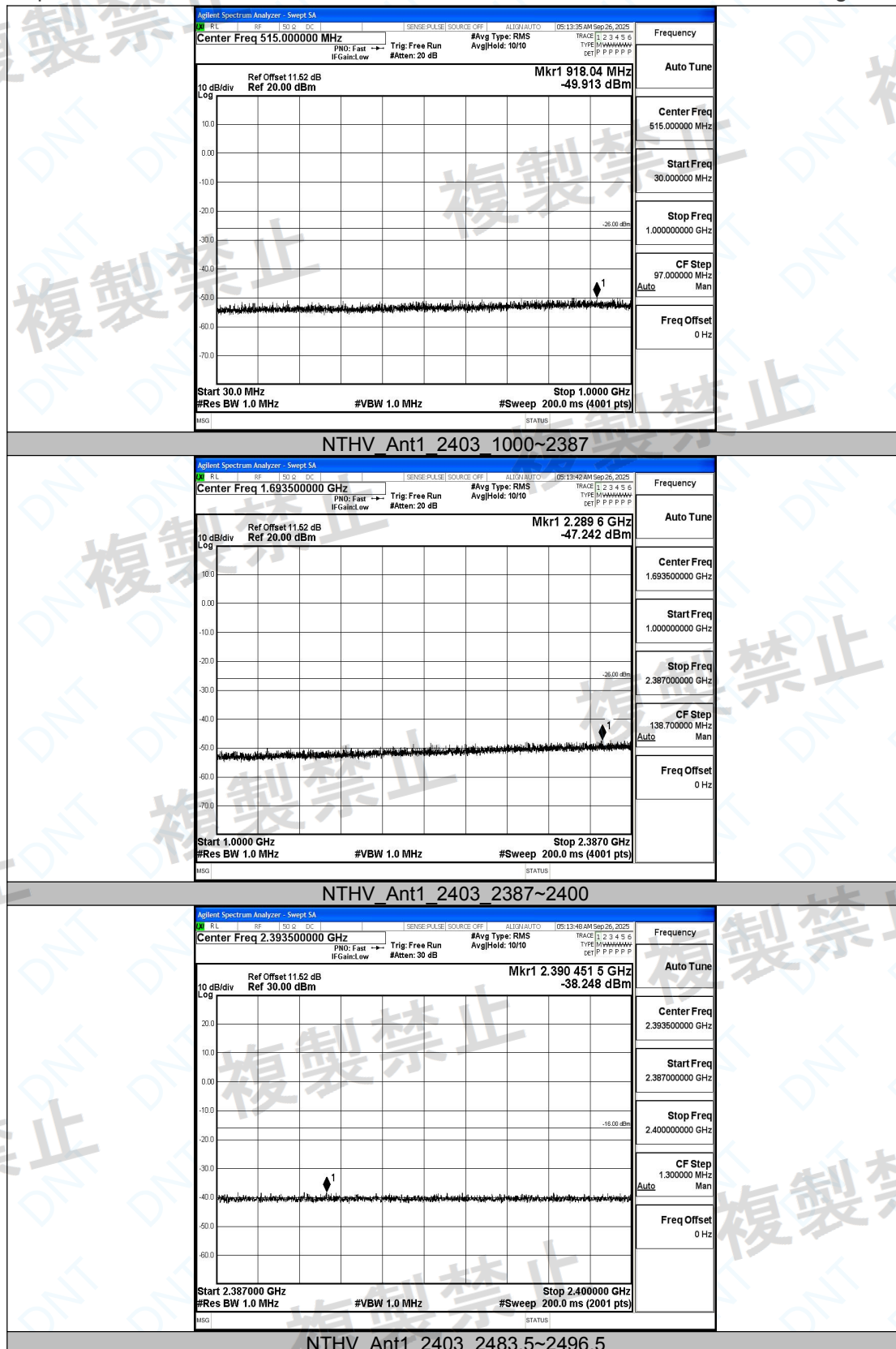


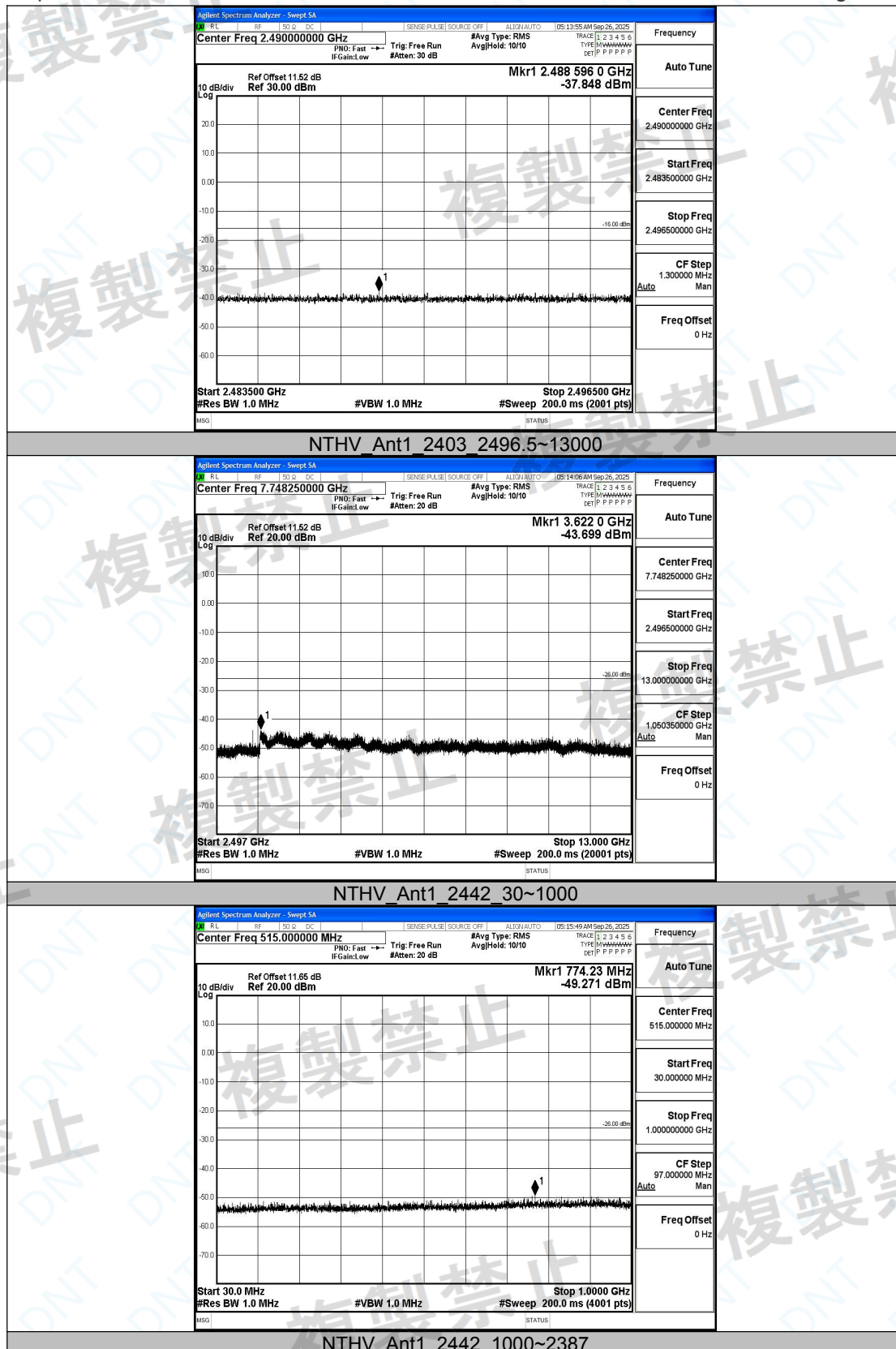
NTLV Ant1 2480 1000~2387

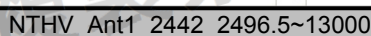
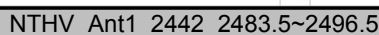
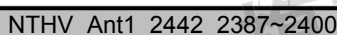


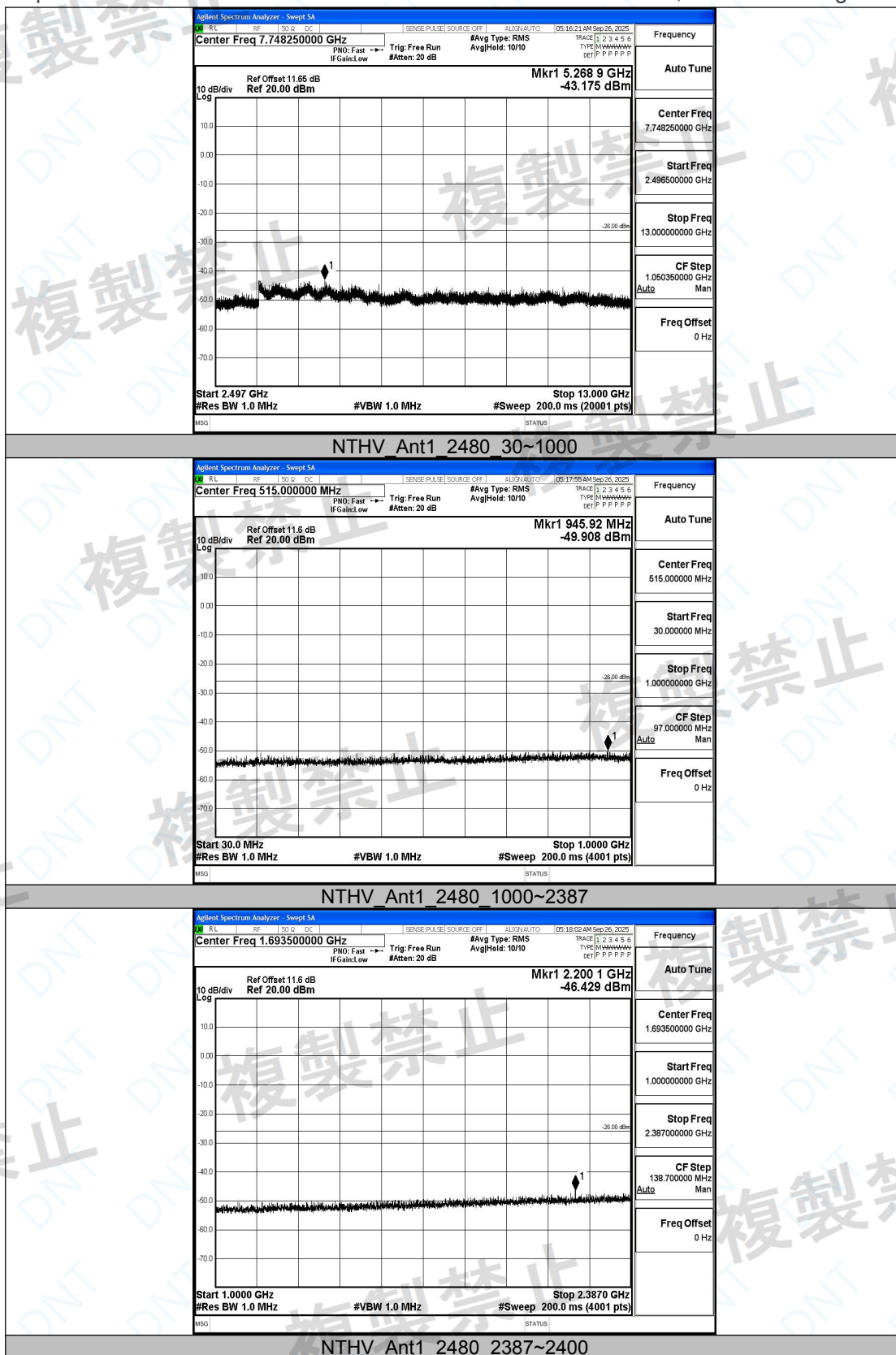
NTLV Ant1 2480 2387~2400

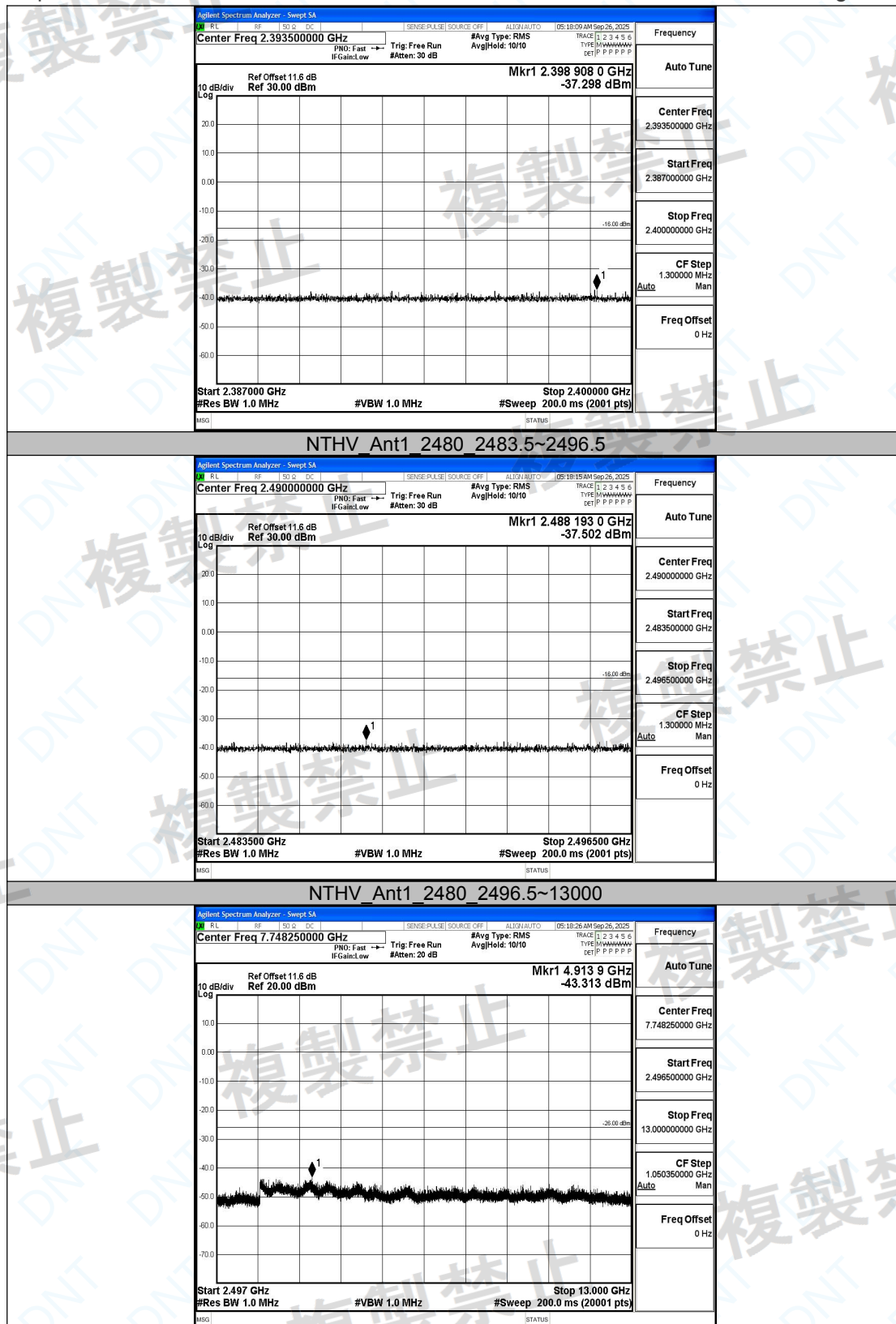












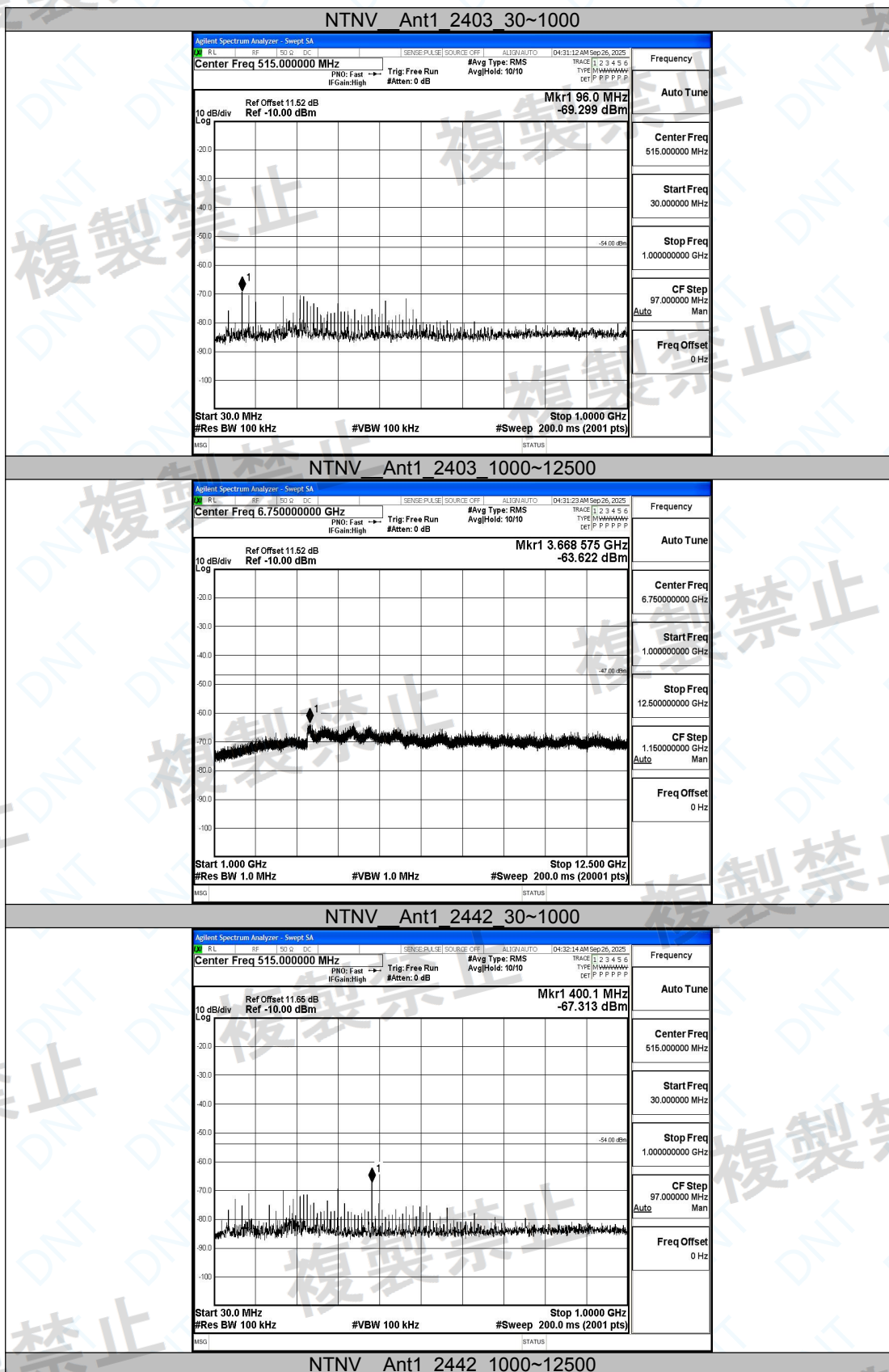
Note: SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA' s default format.

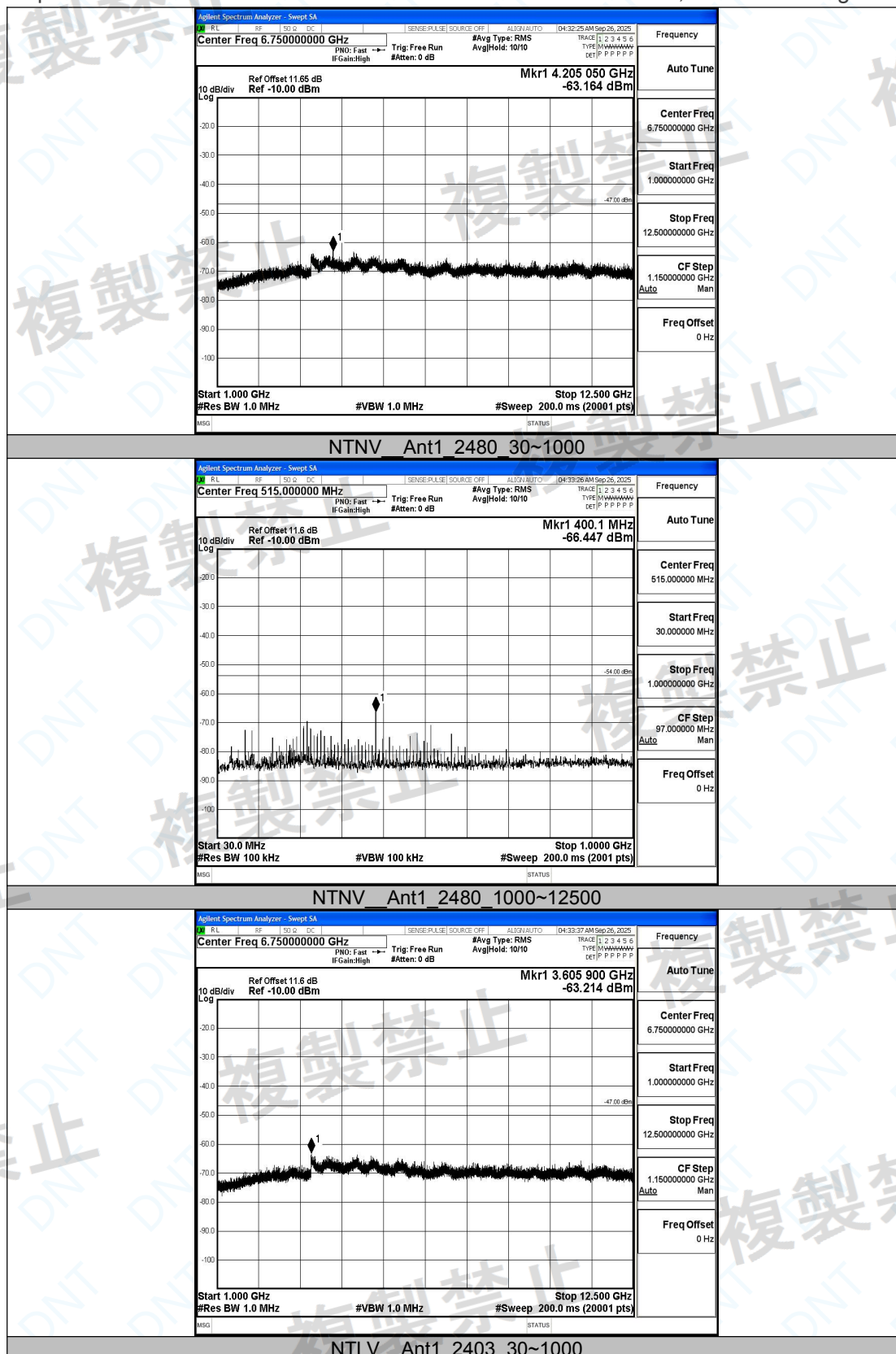
**Appendix F: Spurious Emission of RX****Test Result**

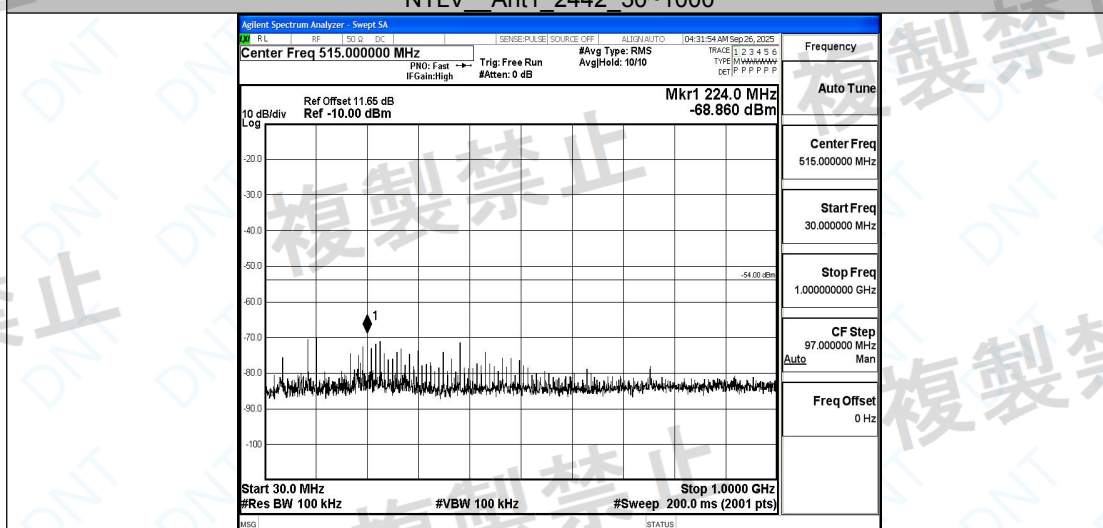
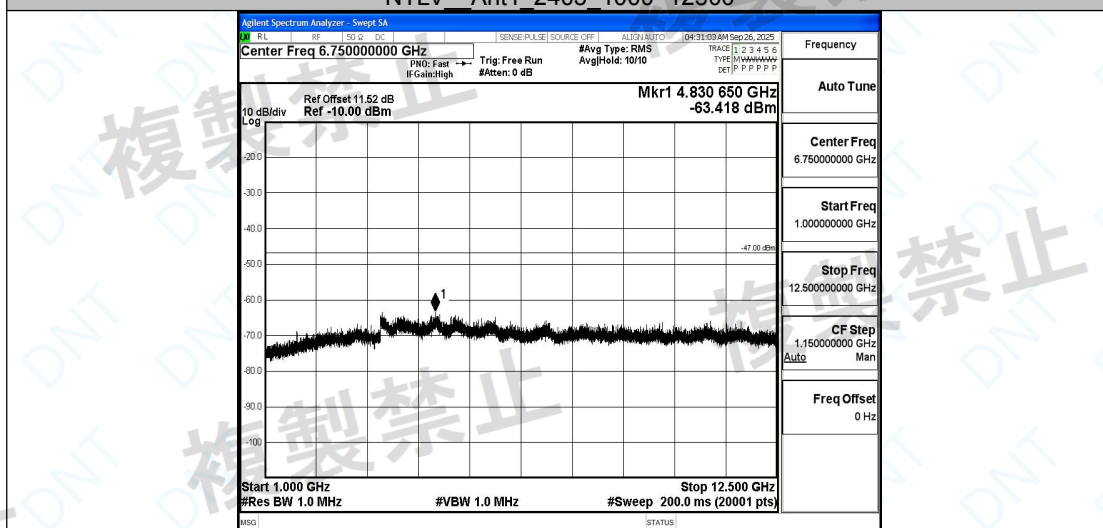
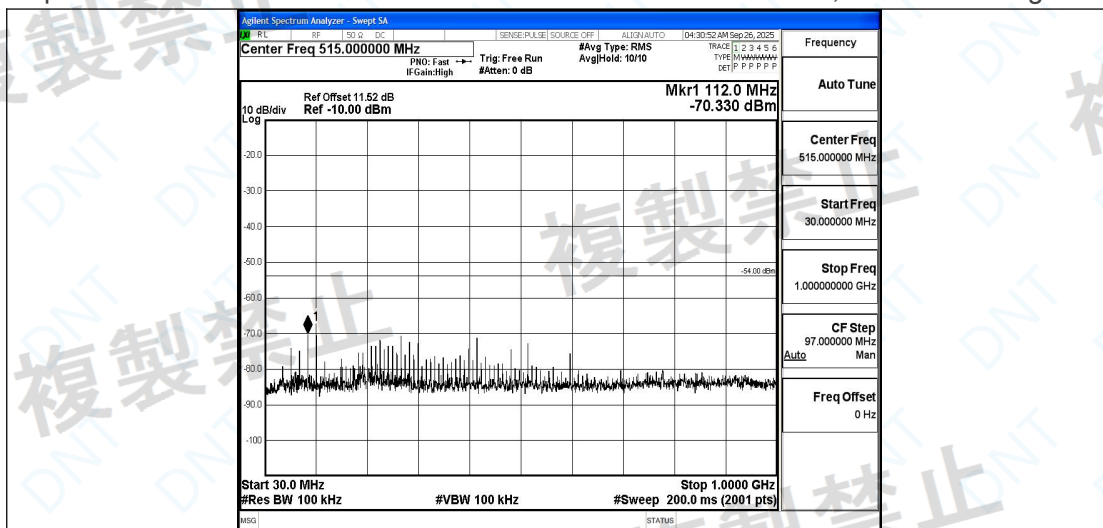
TestCondition	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	Ant1	2403	30~1000	95.96	-69.30	≤-54	0.11749	≤4	PASS
			1000~12500	3668.58	-63.62	≤-47	0.43451	≤20	PASS
		2442	30~1000	400.06	-67.31	≤-54	0.18578	≤4	PASS
			1000~12500	4205.05	-63.16	≤-47	0.48306	≤20	PASS
		2480	30~1000	400.06	-66.45	≤-54	0.22646	≤4	PASS
			1000~12500	3605.90	-63.21	≤-47	0.47753	≤20	PASS
NTLV	Ant1	2403	30~1000	111.97	-70.33	≤-54	0.09268	≤4	PASS
			1000~12500	4830.65	-63.42	≤-47	0.45499	≤20	PASS
		2442	30~1000	224.00	-68.86	≤-54	0.13002	≤4	PASS
			1000~12500	2438.08	-62.78	≤-47	0.52723	≤20	PASS
		2480	30~1000	400.06	-67.24	≤-54	0.18880	≤4	PASS
			1000~12500	3617.40	-63.99	≤-47	0.39902	≤20	PASS
NTHV	Ant1	2403	30~1000	400.06	-69.58	≤-54	0.11015	≤4	PASS
			1000~12500	4872.63	-62.53	≤-47	0.55847	≤20	PASS
		2442	30~1000	191.99	-68.88	≤-54	0.12942	≤4	PASS
			1000~12500	3606.48	-64.06	≤-47	0.39264	≤20	PASS
		2480	30~1000	191.99	-69.20	≤-54	0.12023	≤4	PASS
			1000~12500	3689.28	-63.74	≤-47	0.42267	≤20	PASS

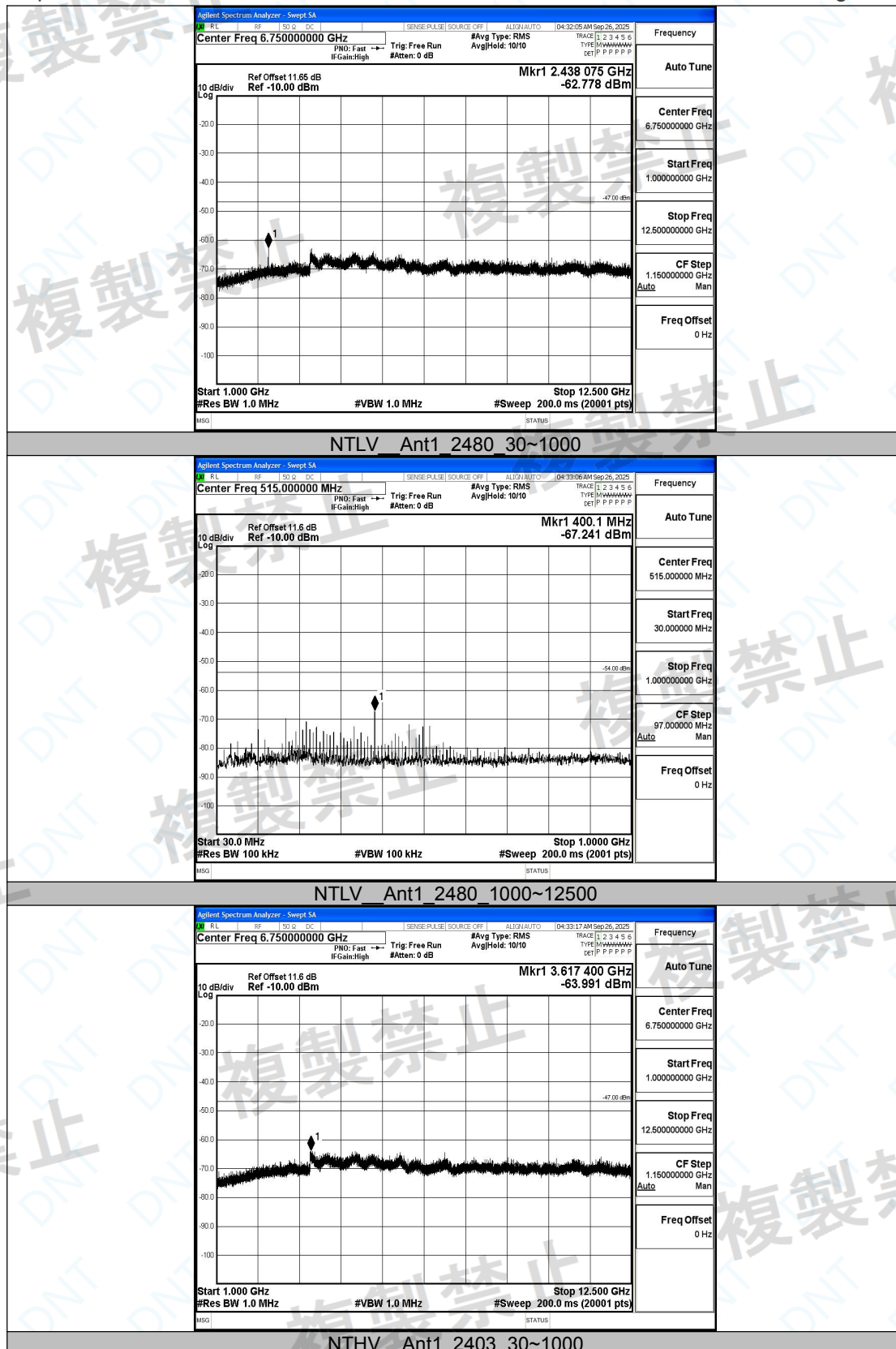


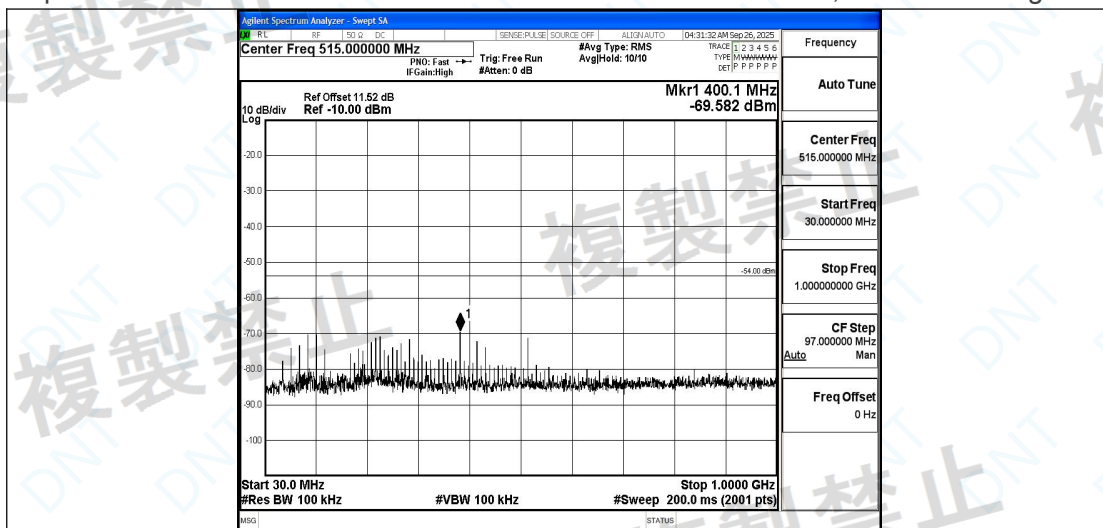
Test Graphs



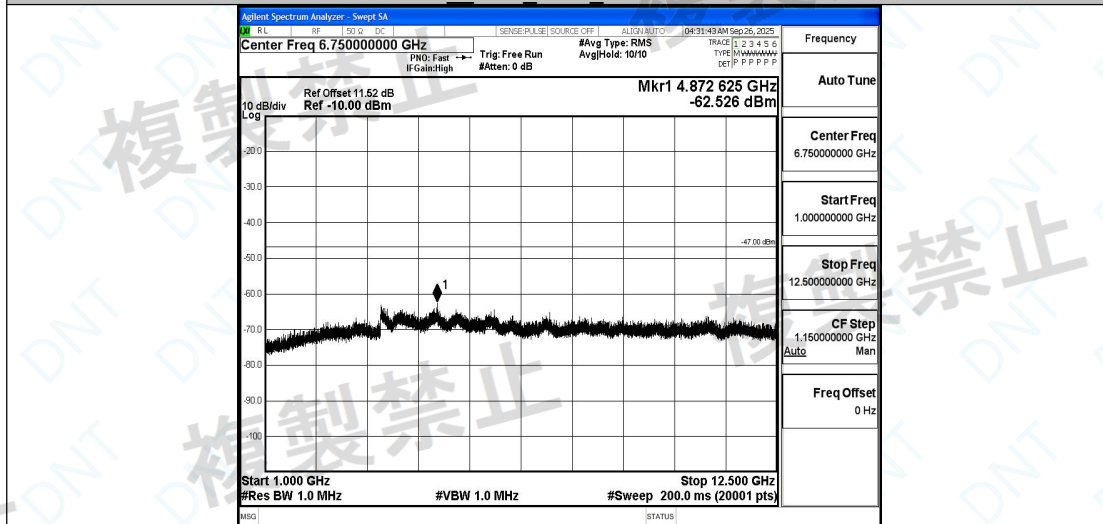




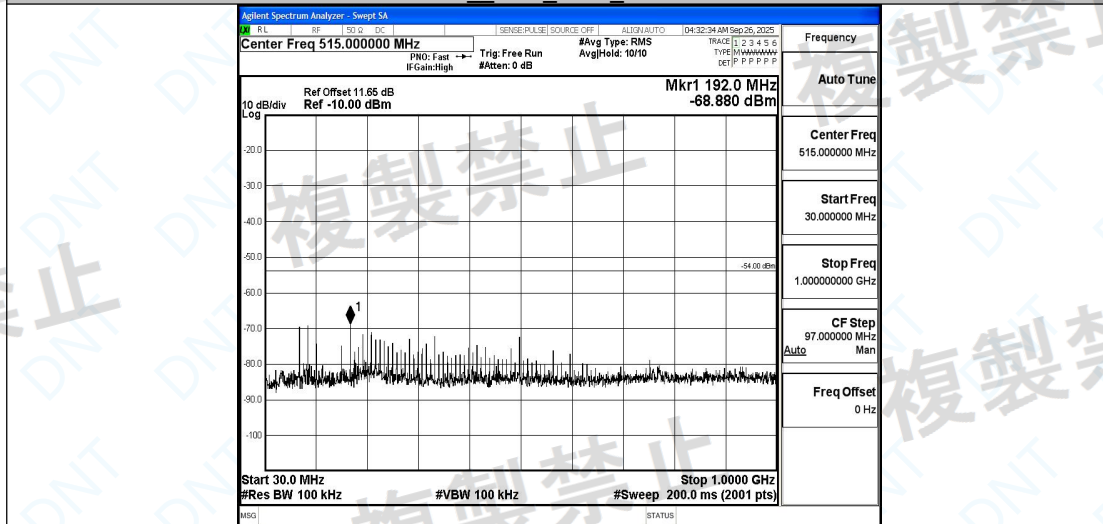




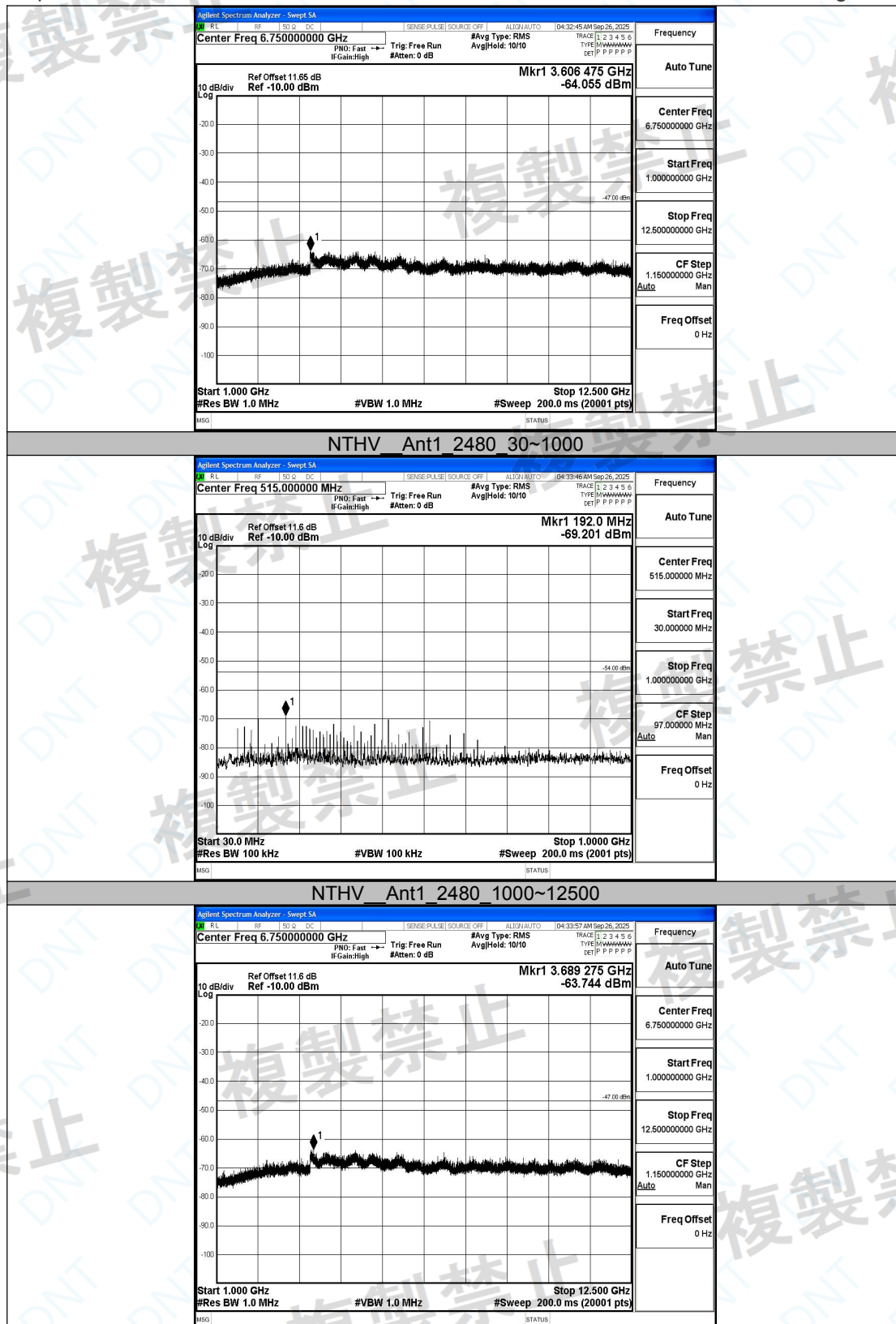
NTHV Ant1 2403 1000~12500



NTHV Ant1 2442 30~1000



NTHV Ant1 2442 1000~12500



--- END REPORT ---