

MIC 5G WIFI TEST REPORT

Applicant : Shenzhen Decenta Technology CO.,LTD
Room 1107, 1108 and 1109, Building B, Shenzhen International
Address : Innovation Valley 6 Dashi Road, Xili Community, Xili Street,
Nanshan District, Shenzhen, Guangdong 518055 China
Product Name : OPS PC Module, Open Pluggable Specification
Trade mark : N/A
Model No. : OPS A01 D
Series model : S25-RK3588-OPSC41-D5
Report Number : BLA-RF-202512-A6104
Date of Issue : Jan. 26, 2026
Test standard : Item 19-3 of Article 2 Paragraph 1
Test result : PASS

Compiled by:

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Review by:

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Approved by:

Blue Zheng

Issued Date:

Jan. 26, 2026



BlueAsia Technical Services (Shenzhen) Co., Ltd

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an
District, Shenzhen, Guangdong, China



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1 Version

Version No.	Date	Description
00	Jan. 26, 2026	Original

2 Test Summary

Test	Test Requirement	Limit/Severity	Result
Antenna Requirement	Item 19-3 of Article 2-1	Notice 88 Appendix 45,B-1 (1)&(2)	PASS
Frequency Error	Item 19-3 of Article 2-1	±20 PPM or less	PASS
Occupied Bandwidth		20MHz or less for 20MHz system 40MHz or less for 40MHz system 80MHz or less for 80MHz system	PASS
Spurious Emission of Tx		2.5μW/MHz	PASS
Antenna Power		10mW/MHz or less for 20MHz system 5mW/MHz or less for 40MHz system 2.5mW/MHz or less for 80MHz system Tolerance: +20%, -80%	PASS
Equivalent isotropically radiated power (EIRP)		10mW MHz or less for 20MHz system 5mW MHz or less for 40MHz system 2.5mW MHz or less for 80MHz system	PASS
Adjacent channel power tolerance		±9MHz bandwidth at 20MHz detuning: -25dB ±9MHz bandwidth at 40MHz detuning: -40dB	PASS
Out-band emission power		Attached table 1, 2 and 3	PASS
Spurious Emission of Rx		(1) Below 1 GHz: -54dBm (2) 1GHz-10GHz: -47dBm (3) 10GHz or higher: -47dBm	PASS
Interference prevention function		Notice 88 Appendix 45	PASS
Carrier sense function		Shall not transmit radio wave when receiving over 100mV/m	PASS
Transmission Burst Length		8ms or less	PASS

Remark:

Model No.: OPS A01 D, S25-RK3588-OPSC41-D5

Only the model OPS A01 D was tested, they have the same circuit design, layout, components and internal wiring, just All models are identical to each other except for model designation and model name.

EUT: In this whole report EUT means Equipment Under Test.

Tx:In this whole report Tx (or tx) means the product in transmitting status.

Rx: In this whole report Rx (or rx) means the product in receiving status.

RF:In this whole report RF means Radiated Frequency.

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Decenta Technology CO.,LTD
Address of Applicant:	Room 1107, 1108 and 1109, Building B,Shenzhen International Innovation Valley 6 Dashi Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong 518055 China
Manufacturer:	Shenzhen Decenta Technology CO.,LTD
Address of Manufacturer:	Room 1107, 1108 and 1109, Building B,Shenzhen International Innovation Valley 6 Dashi Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong 518055 China
Factory:	Shenzhen Decenta Technology CO.,LTD
Address of Factory:	Room 1107, 1108 and 1109, Building B,Shenzhen International Innovation Valley 6 Dashi Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong 518055 China

4.2 General Description of EUT

Product Name:	OPS PC Module, Open Pluggable Specification
Model No.:	OPS A01 D
Series model:	S25-RK3588-OPSC41-D5
Operating Frequency:	5.15-5.25GHz(Only indoor use)
Rated power:	5.15-5.25GHz: 1.00mW/MHz (W52 Band_802.11a-HT20) 2.00mW/MHz (W52 MIMO Band_802.11n-HT20) 2.00mW/MHz (W52 MIMO Band_802.11n-HT40) 2.00mW/MHz (W52 MIMO Band_802.11ac-VHT20) 2.00mW/MHz (W52 MIMO Band_802.11ac-VHT40) 0.50mW/MHz (W52 MIMO Band_802.11ac-VHT80) 2.00mW/MHz (W52 MIMO Band_802.11ax-HE20) 2.00mW/MHz (W52 MIMO Band_802.11ax-HE40) 0.50mW/MHz (W52 MIMO Band_802.11ax-HE80)
Type of Modulation:	IEEE 802.11a:OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40):OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11ac :OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax(HE20/HE40/HE80):OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	External Antenna
Antenna gain:	WIFI Ant1: 4.59dBi WIFI Ant2: 4.59dBi
Device type:	Client device
Resource unit(802.11ax):	Only support full RU
Power Supply:	AC 100V
Function:	☒ SISO ☒ 2x2 MIMO ☐ TPC
Hardware Version:	S25-RK3588-OPSC41-D5

BlueAsia Technical Services (Shenzhen) Co., Ltd

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Version:v1.0

Software Version:	Android 15
Sample Received Date:	Dec. 22, 2025
Sample tested Date:	Dec. 22, 2025 to Jan. 26, 2026

4.3 Description of Support Units

The EUT has been tested stand-alone.

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HP	14s-cr2010TX	/	/
AC Adapter	Great Wall	GA120SE1-120010000	/	/
PCBA IO CARD	Shenzhen Decenta Technology	B8TESOPS	/	/

4.4 Test Location

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-2305 9481 FAX: +86-755-2305 9481

No tests were sub-contracted.

4.5 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$<\pm 1 \times 10^{-5}$
2	Total RF power, conducted	$<\pm 1.5$ dB
3	RF power density, conducted	$<\pm 3$ dB
4	Spurious emissions, conducted	$<\pm 3$ dB
5	All emissions, radiated	$<\pm 6$ dB (30MHz – 1GHz) $<\pm 6$ dB (above 1GHz)
6	Temperature	$<\pm 1^{\circ}\text{C}$
7	Humidity	$<\pm 5$ %
8	DC and low frequency voltages	$<\pm 3$ %

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5 Instruments Used during Test

Equipment	Manufacturer	Model	Serial No.	Cal Date	Due Date	Calibration body	Classification
Communication test set test set	Anritsu	MT8852B	06262047872	2025/8/6	2026/8/5	GRGT	(c)
Spectrum Analyzer	Keysight	N9030A	MY52350152	2025/8/6	2026/8/5	GRGT	(c)
Signal Generator	Agilent	E4438C	MY45092582	2025/8/6	2026/8/5	GRGT	(c)

Remark:

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .
- (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (C)

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

6 Test Results

6.1 Radio Technical Requirements Specification

Tabel 1: 5 GHz band low-power data communication system (1)

Items	Technical standard								
Assigned frequency or designated frequency	5180, 5200, 5220, 5240, 5190, 5230, 5210MHz								
Number of channels or channel separation	7								
Tolerance of frequency	20×10^{-6}								
Tolerance of occupied bandwidth	20MHz or less for 20MHz system 40MHz or less for 40MHz system 80MHz or less for 80MHz system								
Tolerance of unwanted emission intensity	2.5μW / MHz								
Antenna power	10mW/MHz or less for 20MHz system 5mW/MHz or less for 40MHz system 2.5mW/MHz or less for 80MHz system Tolerance: +20%, -80%								
Equivalent isotropically radiated power (EIRP)	10mW/MHz or less for 20MHz system 5mW/MHz or less for 40MHz system 2.5mW/MHz or less for 80MHz system								
Tolerance of adjacent channel leakage power and out-band leakage power	<table border="1"><tr><td>OBW ≤ 18MHz Fc ± 20MHz ±9MHz BW : -25dBc</td><td>18MHz < OBW ≤ 20MHz Fc ± 20MHz ±10MHz BW : -25dBc</td><td>Fc ± 40MHz ±20MHz BW : -25dBc</td><td>Fc ± 80MHz ±40MHz BW : -25dBc</td></tr><tr><td>OBW ≤ 18MHz Fc ± 40MHz ±9MHz BW : -40dBc</td><td>18MHz < OBW ≤ 20MHz Fc ± 40MHz ±10MHz BW : -40dBc</td><td>Fc ± 80MHz ±20MHz BW : -40dBc</td><td></td></tr></table> Out-band leakage power EIRP: See Attached Table 1, 2 and 3.	OBW ≤ 18MHz Fc ± 20MHz ±9MHz BW : -25dBc	18MHz < OBW ≤ 20MHz Fc ± 20MHz ±10MHz BW : -25dBc	Fc ± 40MHz ±20MHz BW : -25dBc	Fc ± 80MHz ±40MHz BW : -25dBc	OBW ≤ 18MHz Fc ± 40MHz ±9MHz BW : -40dBc	18MHz < OBW ≤ 20MHz Fc ± 40MHz ±10MHz BW : -40dBc	Fc ± 80MHz ±20MHz BW : -40dBc	
OBW ≤ 18MHz Fc ± 20MHz ±9MHz BW : -25dBc	18MHz < OBW ≤ 20MHz Fc ± 20MHz ±10MHz BW : -25dBc	Fc ± 40MHz ±20MHz BW : -25dBc	Fc ± 80MHz ±40MHz BW : -25dBc						
OBW ≤ 18MHz Fc ± 40MHz ±9MHz BW : -40dBc	18MHz < OBW ≤ 20MHz Fc ± 40MHz ±10MHz BW : -40dBc	Fc ± 80MHz ±20MHz BW : -40dBc							
Limit of secondary radiated emissions	(1) Below 1GHz : 4nW (2) 1GHz - 10GHz : 20nW (3) 10GHz or higher : 20nW								
Interference prevention function	Shall have the function of automatic transmission or reception of identification code.								
Carrier sensing function (1)	Shall not transmit radio wave when receiving over 100mV/m								
Carrier sensing function (2)	See Attached Table 4.								
Transmission burst length	8ms or less								
Note	DS: Direct spreading OFDM : Orthogonal frequency division multiplexing								

6.2 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.

EUT Antenna

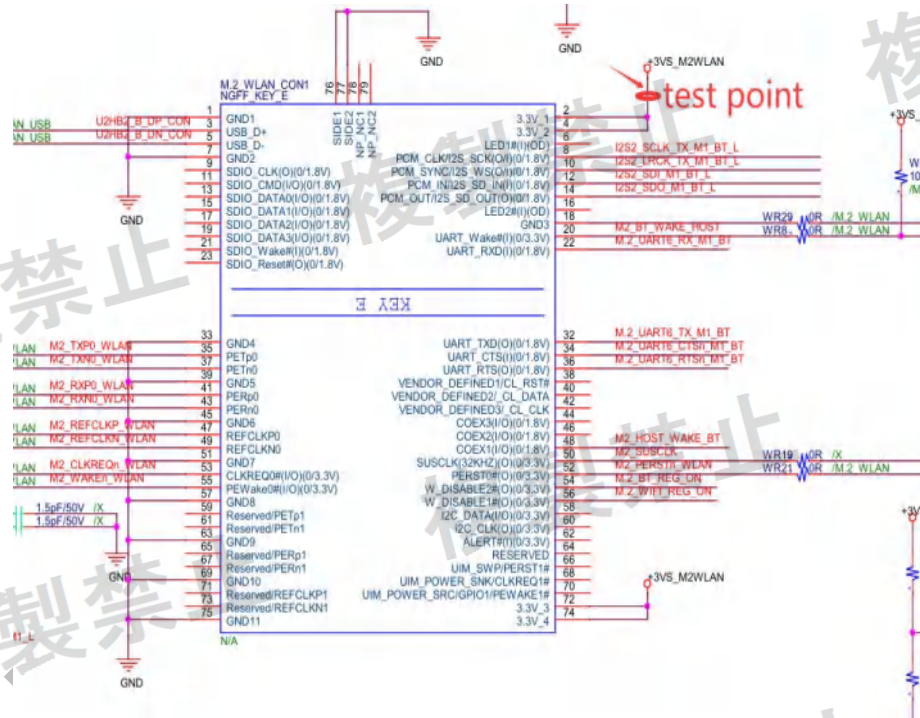
The antenna is External Antenna.The best case gain of the antenna are WIFI Ant1:4.59dBi and WIFI Ant2:4.59dBi.



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

6.3 Transmitter Requirements

6.3.1 EUT test voltage and Frequency

EUT test voltage			
Power Supply:		AC 100V	
Test voltage require:		The power supply is AC 100V. The supply voltage of RF part is varied within +/-1%. When AC 100V +/- 10%, so AC 100V is shown in the test report.	
Power Supply view:			
Power Supply result:		The measurement result of the voltage fluctuation at RF circuit when AC 100V +/- 10%.	
		AC INPUT	RF circuit
		90.0V	3.30V
		100.0V	3.30V
		110.0V	3.30V
Test condition	Ambient		
	Temperature(℃)	Humidity(%)	Voltage(V)
NTNV	24	48	AC 100
NTLV	N/A	N/A	N/A
NTHV	N/A	N/A	N/A

Operation Frequency of channel	
Band I (5.15-5.25GHz)	
Channel	Frequency
36	5180 MHz
38	5190 MHz
40	5200 MHz
42	5210 MHz
44	5220 MHz
46	5230 MHz
48	5240 MHz

For 802.11a/n/ac(HT20)/ax(HE20):

Channel	Frequency
36	5180 MHz
40	5200 MHz
44	5220 MHz
48	5240 MHz

For 802.11n(HT40)/ac(VHT40)/ax(HE40):

Channel	Frequency
38	5190 MHz
46	5230 MHz

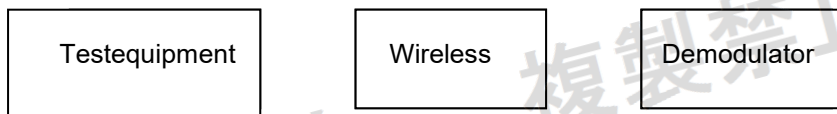
For 802.11ac(VHT80)/ax(HE80):

Channel	Frequency
42	5210 MHz

6.4 Interference prevention function

1) Measurement system diagram

(1) When 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.

MAC Address:

3C:22:7F:F2:F1:A3

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

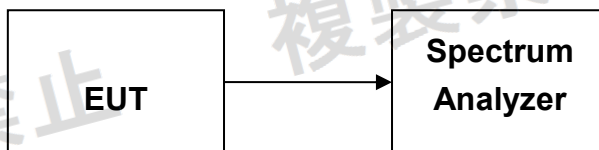
6.5 Frequency Error

Test Requirement: Item 19-3 of Article 2-1

Tolerance of frequency: $\pm 20 \times 10^{-6}$

Test Status: Test the EUT in transmitting mode without modulation.

Test Configuration:



Test Procedure:

1) Test Conditions:

Spectrum Analyzer is used for measurement.

2) EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3) Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

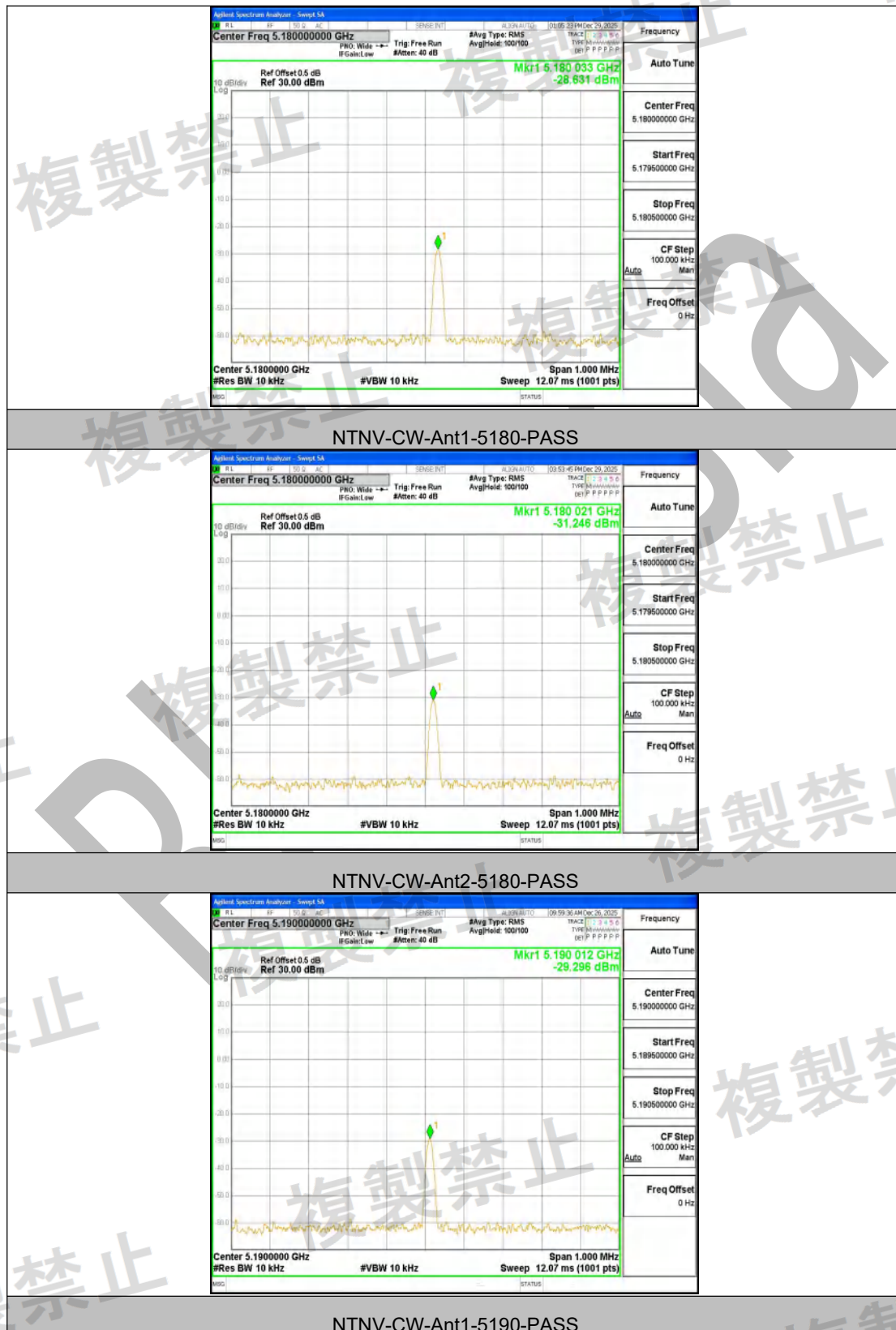
Indication mode Max hold

6.5.1 Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	CW	Ant1	5180	5180.033	6.37066	±20	PASS
NTNV	CW	Ant2	5180	5180.021	4.05405	±20	PASS
NTNV	CW	Ant1	5190	5190.012	2.31214	±20	PASS
NTNV	CW	Ant2	5190	5190.017	3.27553	±20	PASS
NTNV	CW	Ant1	5200	5200.012	2.30769	±20	PASS
NTNV	CW	Ant2	5200	5200.019	3.65385	±20	PASS
NTNV	CW	Ant1	5210	5210.01	1.91939	±20	PASS
NTNV	CW	Ant2	5210	5210.016	3.07102	±20	PASS
NTNV	CW	Ant1	5230	5230.01	1.91205	±20	PASS
NTNV	CW	Ant2	5230	5230.016	3.05927	±20	PASS
NTNV	CW	Ant1	5240	5240.012	2.29008	±20	PASS
NTNV	CW	Ant2	5240	5240.017	3.24428	±20	PASS

Note: The nominal frequency shall be confirmed by the applicant and test lab.

6.5.2 Test Graphs

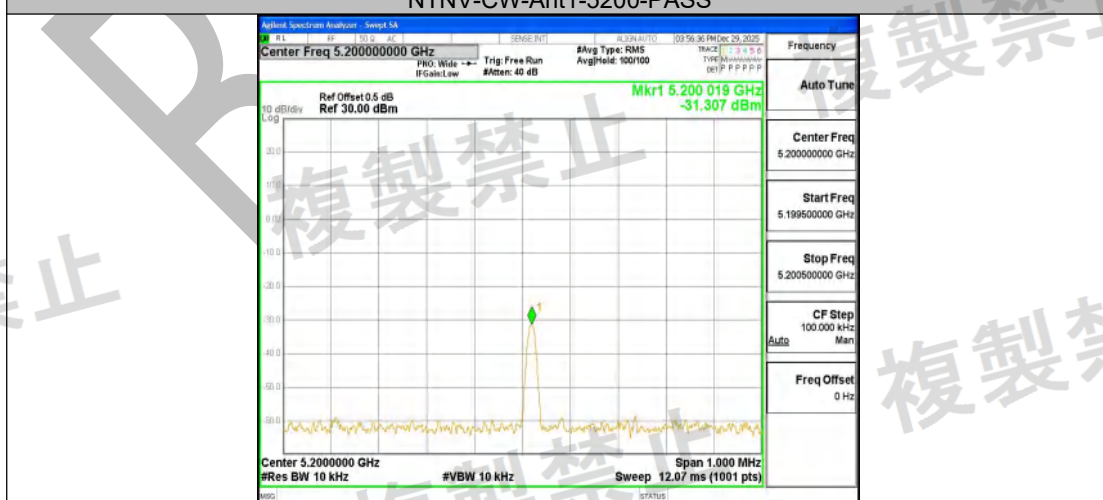
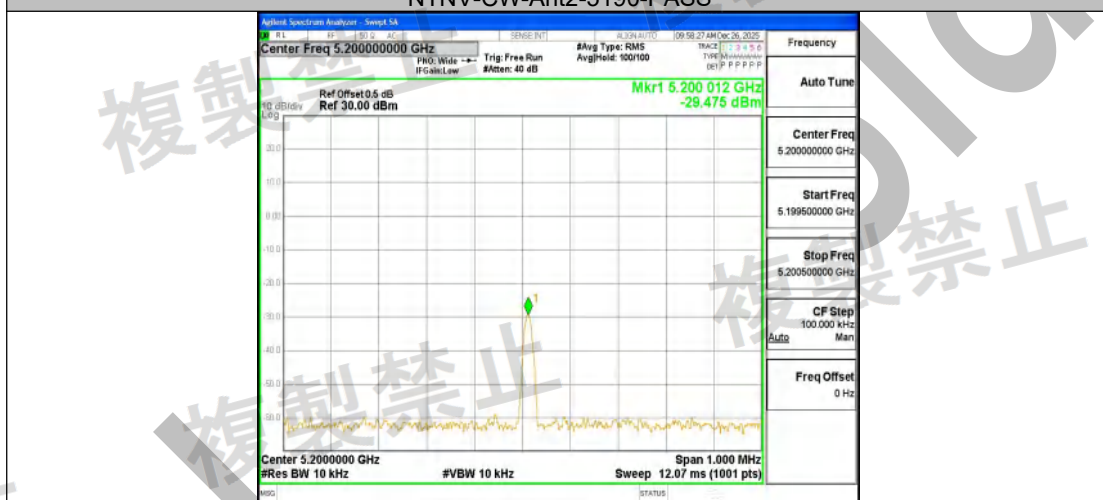
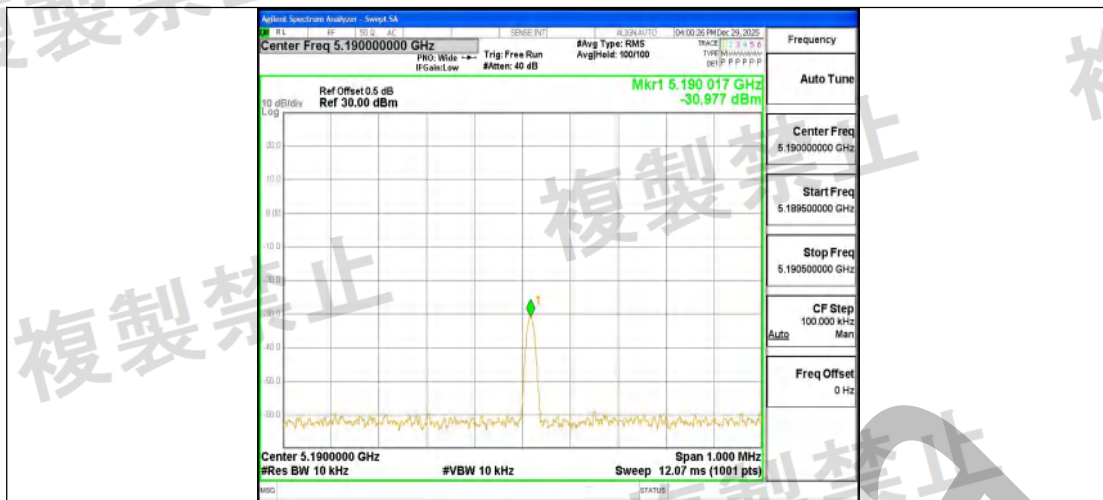


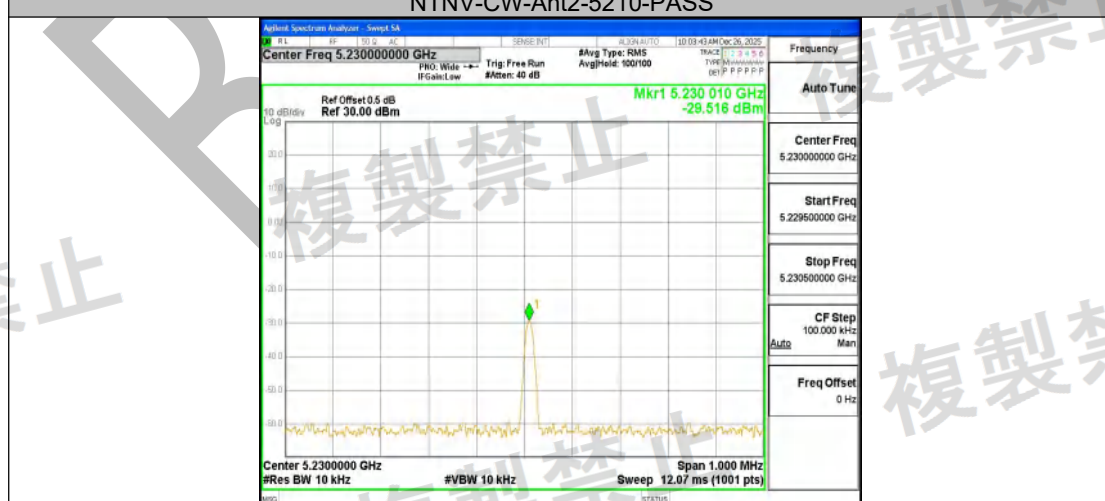
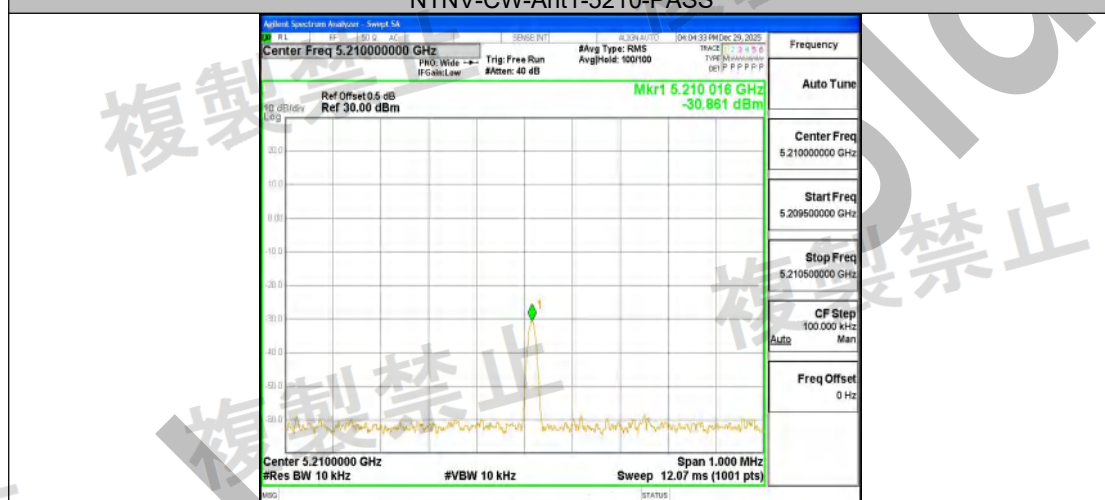
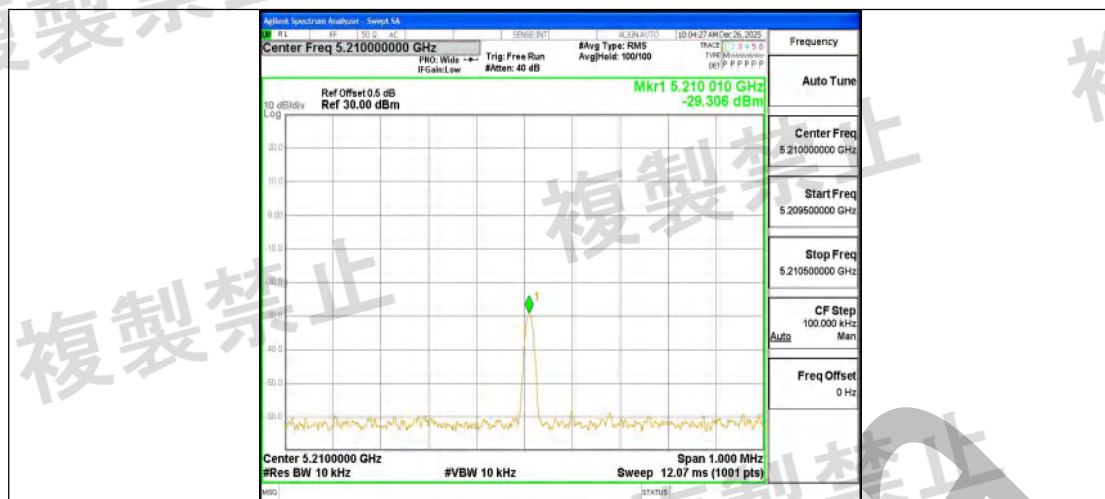
BlueAsia Technical Services (Shenzhen) Co., Ltd

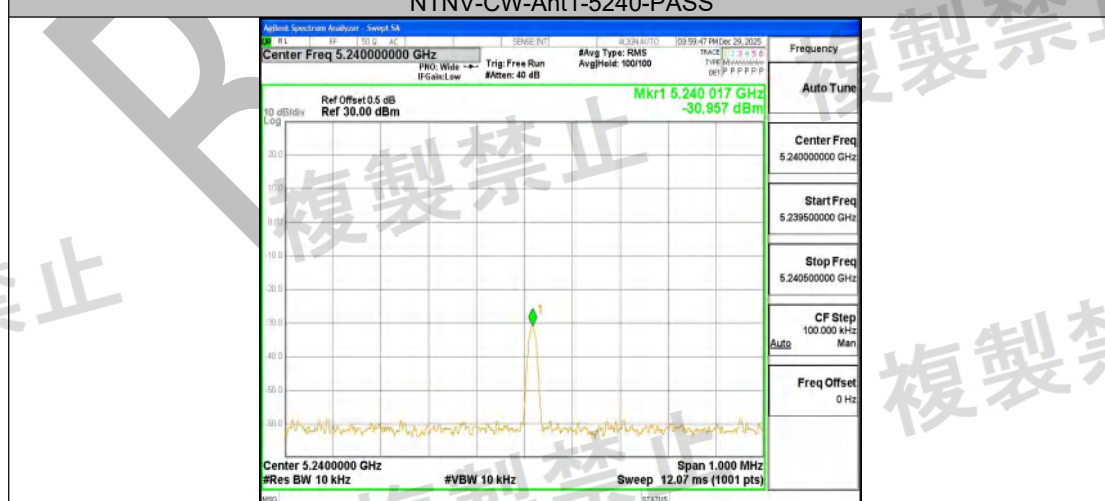
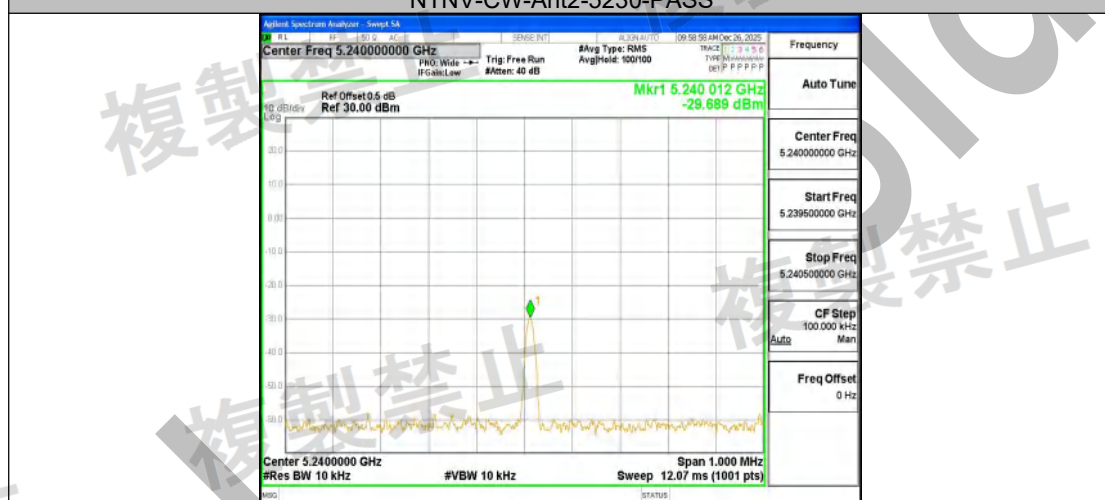
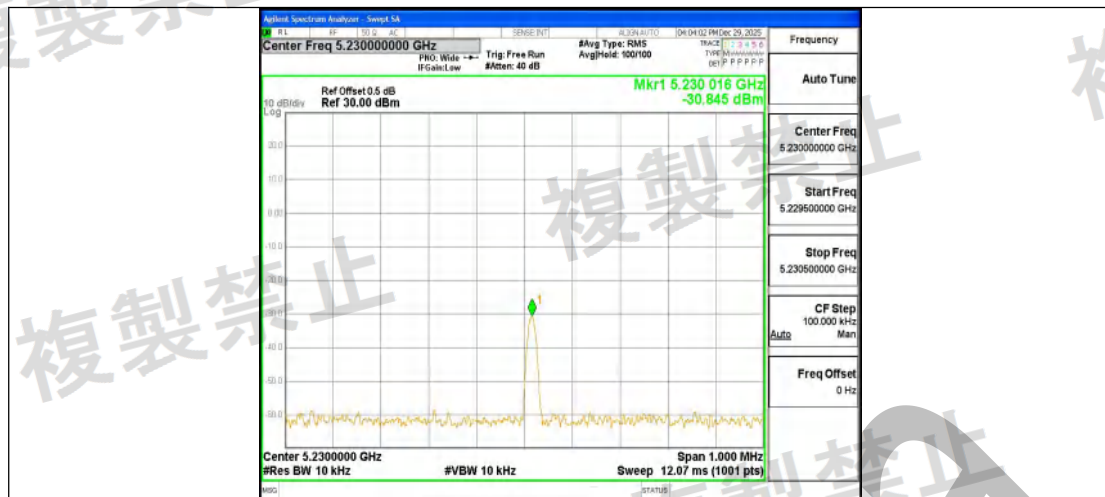
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Version:v1.0







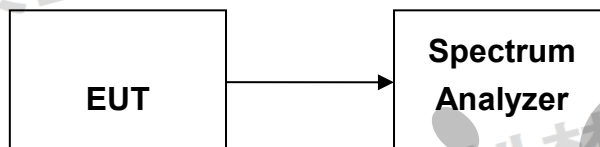
6.6 Occupied Bandwidth (99%)

Test Requirement: Item 19-3 of Article 2-1

20MHz or less for 20MHz system; 40MHz or less for 40MHz system;
80MHz or less for 80MHz system

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.

Test Configuration:



Test Procedure:

1) Test Conditions:

Spectrum Analyzer is used for measurement.

2) EUT conditions:

Modulation/Spread

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 30MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20); 50 MHz for 802.11
n(HT40)/ac(VHT40)/ax(HE40); 90 MHz for 802.11ac(VHT80)/ax(HE80)

RBW 300KHz

VBW 300KHz

Sweep Time Auto

detector mode Positive peak

Indication mode Maxhold

OBW 99%

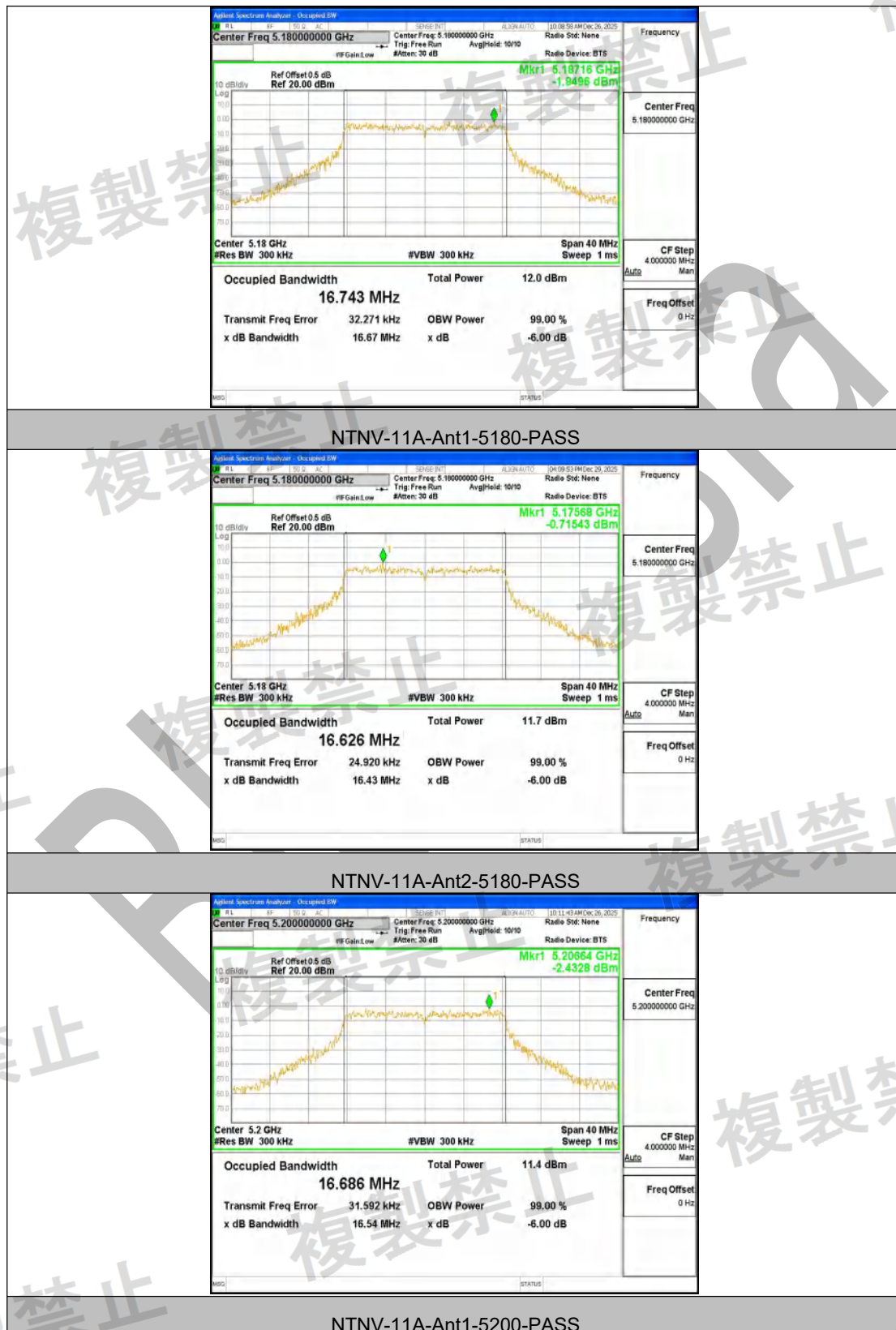
6.6.1 Test Result

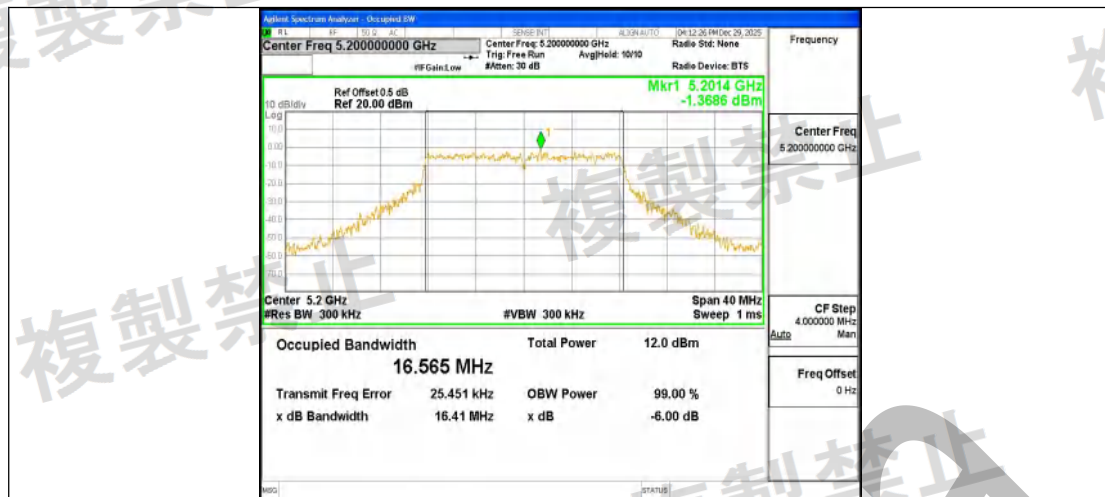
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	16.743	≤20	PASS
NTNV	11A	Ant2	5180	16.626	≤20	PASS
NTNV	11A	Ant1	5200	16.686	≤20	PASS
NTNV	11A	Ant2	5200	16.565	≤20	PASS
NTNV	11A	Ant1	5240	16.651	≤20	PASS
NTNV	11A	Ant2	5240	16.664	≤20	PASS
NTNV	11N20SIS O	Ant1	5180	17.853	≤20	PASS
NTNV	11N20SIS O	Ant2	5180	17.831	≤20	PASS
NTNV	11N20SIS O	Ant1	5200	17.885	≤20	PASS
NTNV	11N20SIS O	Ant2	5200	17.816	≤20	PASS
NTNV	11N20SIS O	Ant1	5240	17.887	≤20	PASS
NTNV	11N20SIS O	Ant2	5240	17.841	≤20	PASS
NTNV	11N40SIS O	Ant1	5190	36.389	≤40	PASS
NTNV	11N40SIS O	Ant2	5190	36.342	≤40	PASS
NTNV	11N40SIS O	Ant1	5230	36.489	≤40	PASS
NTNV	11N40SIS O	Ant2	5230	36.335	≤40	PASS
NTNV	11AC20SI SO	Ant1	5180	17.881	≤20	PASS
NTNV	11AC20SI SO	Ant2	5180	17.872	≤20	PASS
NTNV	11AC20SI SO	Ant1	5200	17.843	≤20	PASS

NTNV	11AC20SI SO	Ant2	5200	17.807	≤20	PASS
NTNV	11AC20SI SO	Ant1	5240	17.829	≤20	PASS
NTNV	11AC20SI SO	Ant2	5240	17.874	≤20	PASS
NTNV	11AC40SI SO	Ant1	5190	36.388	≤40	PASS
NTNV	11AC40SI SO	Ant2	5190	36.389	≤40	PASS
NTNV	11AC40SI SO	Ant1	5230	36.369	≤40	PASS
NTNV	11AC40SI SO	Ant2	5230	36.359	≤40	PASS
NTNV	11AC80SI SO	Ant1	5210	75.912	≤80	PASS
NTNV	11AC80SI SO	Ant2	5210	75.961	≤80	PASS
NTNV	11AX20SI SO	Ant1	5180	19.074	≤20	PASS
NTNV	11AX20SI SO	Ant2	5180	19.138	≤20	PASS
NTNV	11AX20SI SO	Ant1	5200	19.045	≤20	PASS
NTNV	11AX20SI SO	Ant2	5200	19.031	≤20	PASS
NTNV	11AX20SI SO	Ant1	5240	19.075	≤20	PASS
NTNV	11AX20SI SO	Ant2	5240	19.141	≤20	PASS
NTNV	11AX40SI SO	Ant1	5190	38.002	≤40	PASS
NTNV	11AX40SI SO	Ant2	5190	37.836	≤40	PASS
NTNV	11AX40SI SO	Ant1	5230	37.815	≤40	PASS

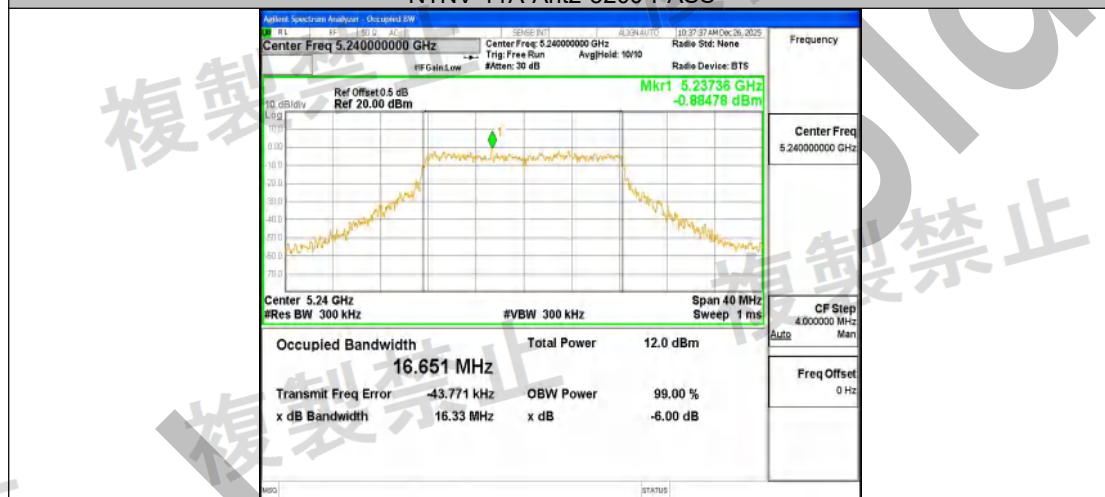
NTNV	11AX40SI SO	Ant2	5230	37.984	≤40	PASS
NTNV	11AX80SI SO	Ant1	5210	77.579	≤80	PASS
NTNV	11AX80SI SO	Ant2	5210	77.577	≤80	PASS

6.6.2 Test Graphs

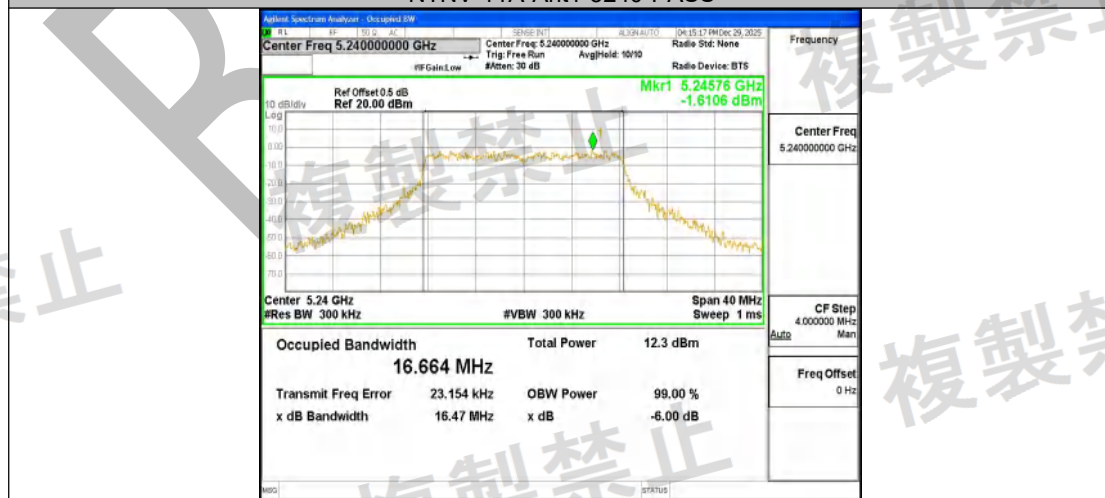




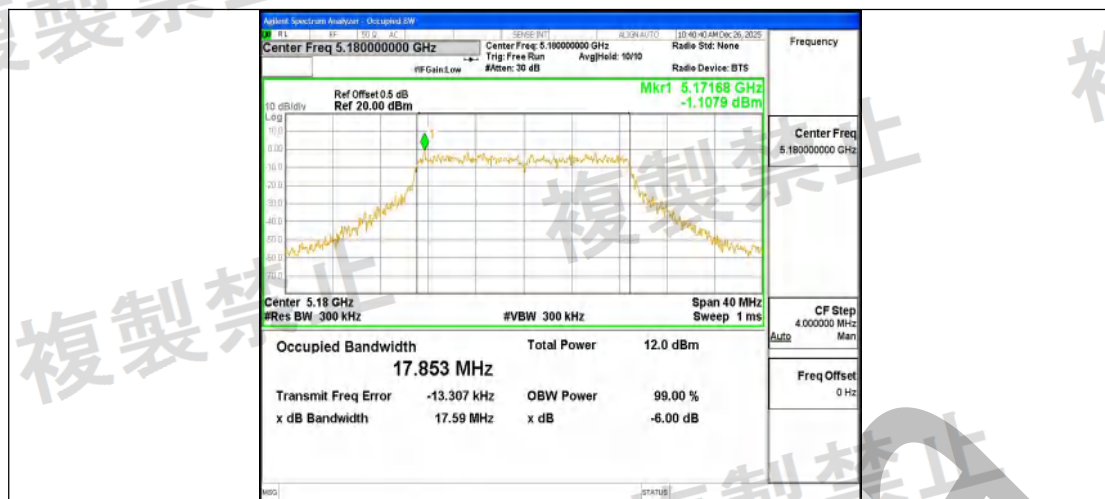
NTNV-11A-Ant2-5200-PASS



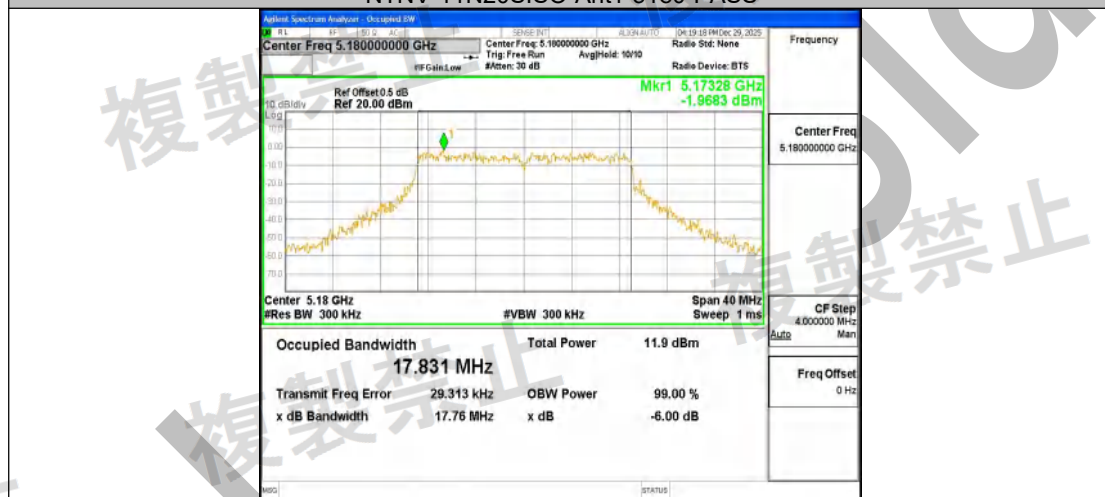
NTNV-11A-Ant1-5240-PASS



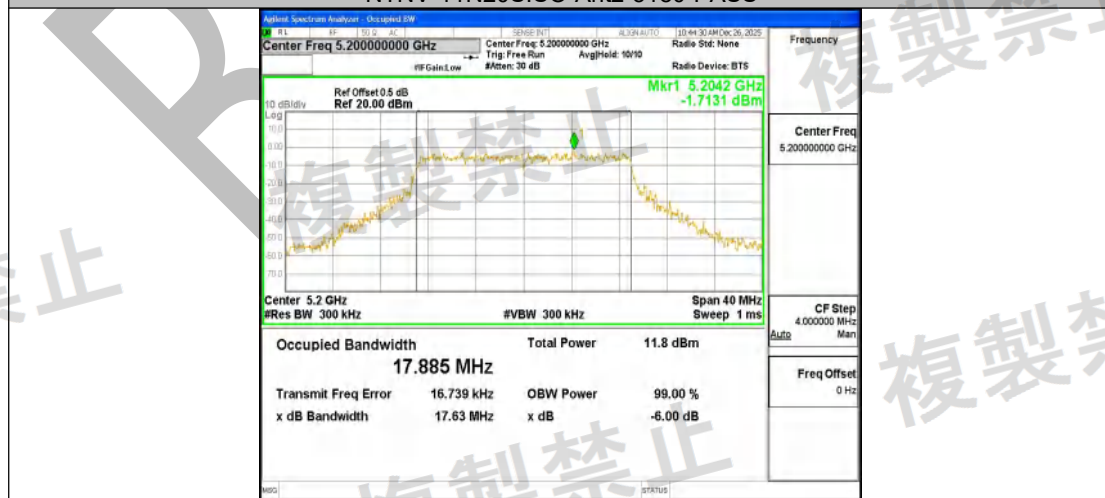
NTNV-11A-Ant2-5240-PASS



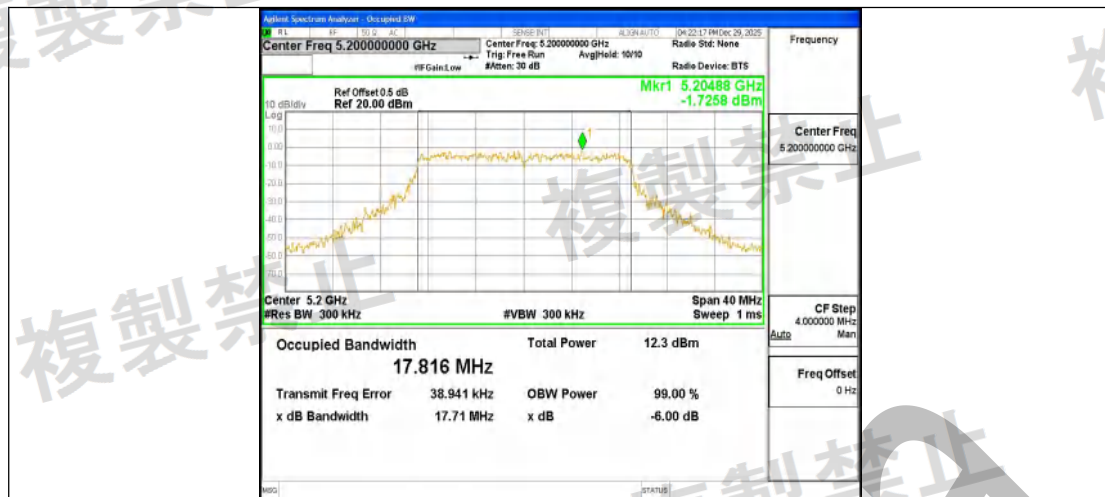
NTVN-11N20SISO-Ant1-5180-PASS



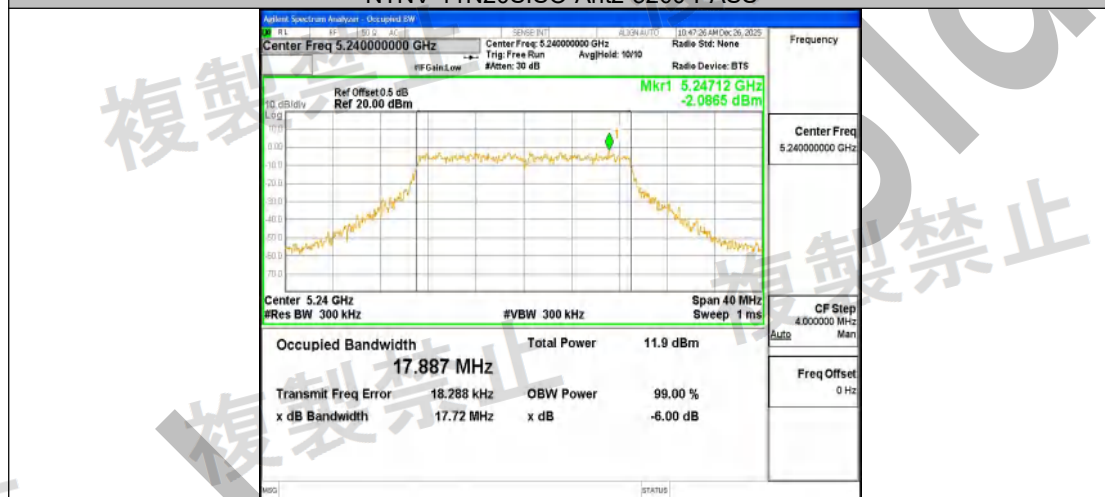
NTVN-11N20SISO-Ant2-5180-PASS



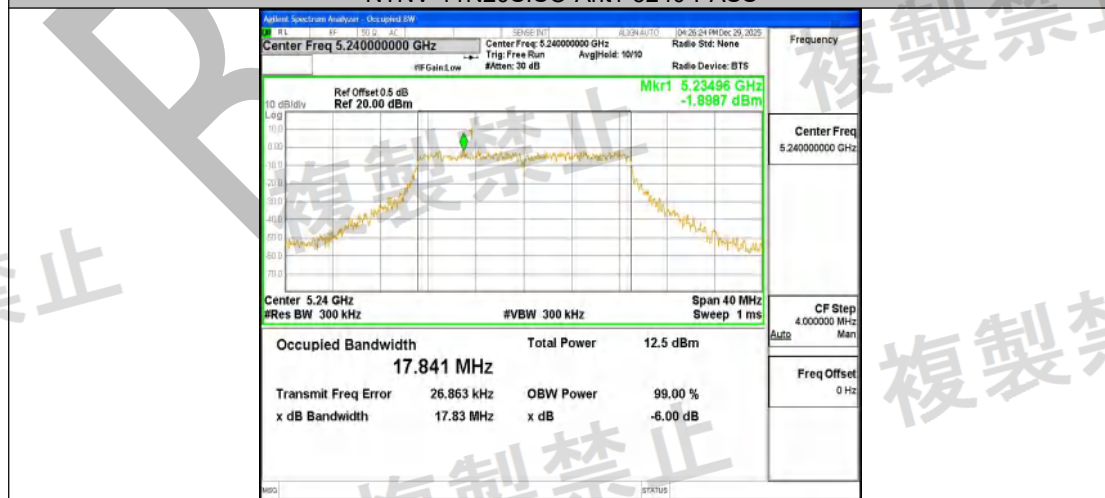
NTVN-11N20SISO-Ant1-5200-PASS



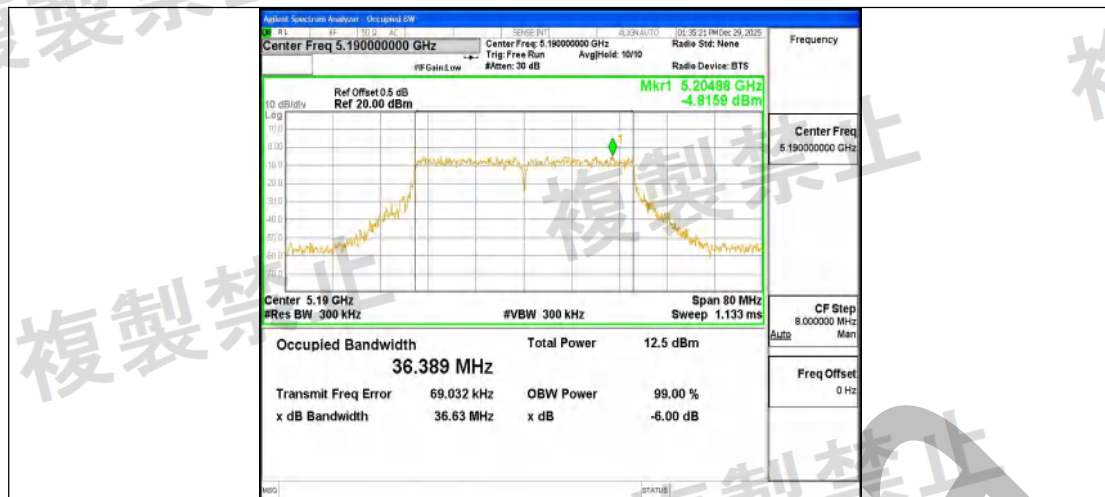
NTVN-11N20SISO-Ant2-5200-PASS



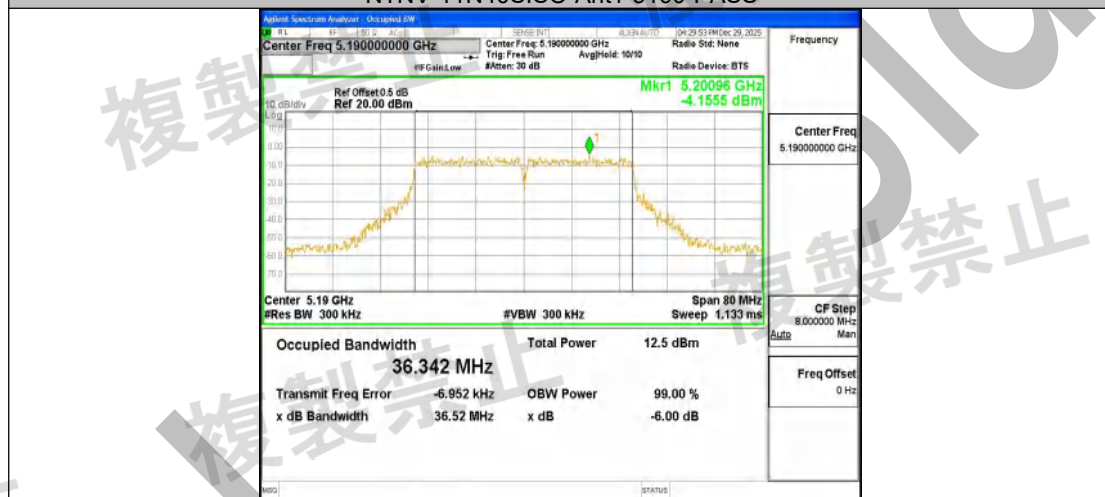
NTVN-11N20SISO-Ant1-5240-PASS



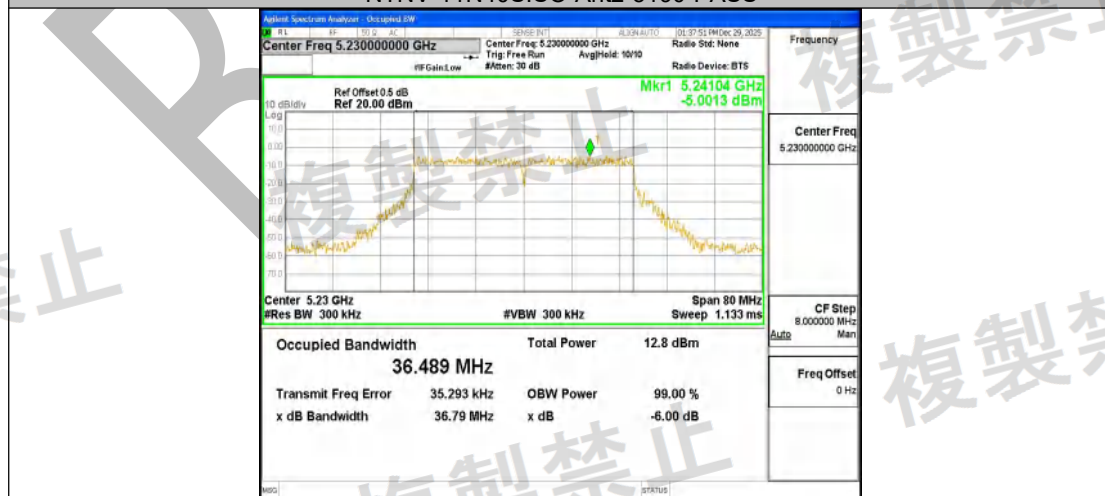
NTVN-11N20SISO-Ant2-5240-PASS



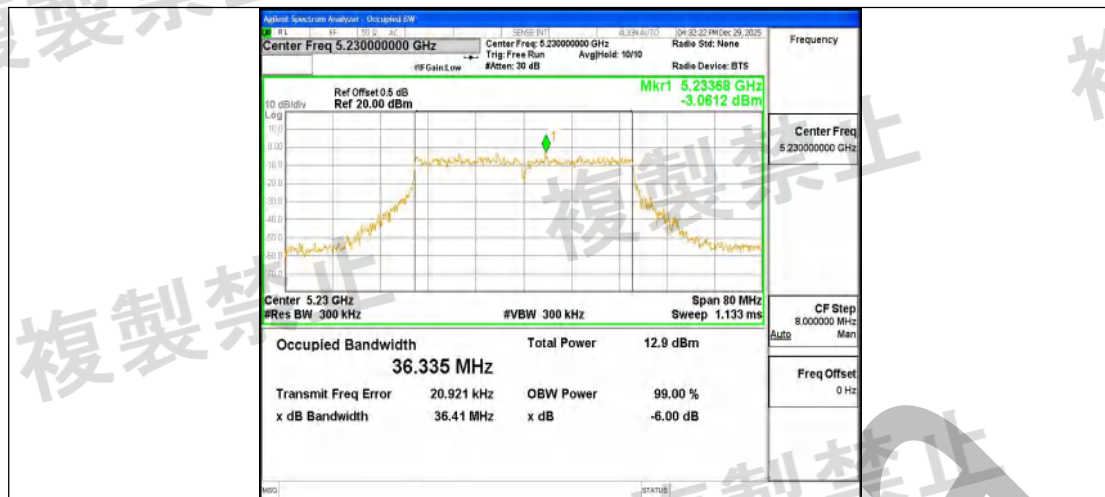
NTVN-11N40SISO-Ant1-5190-PASS



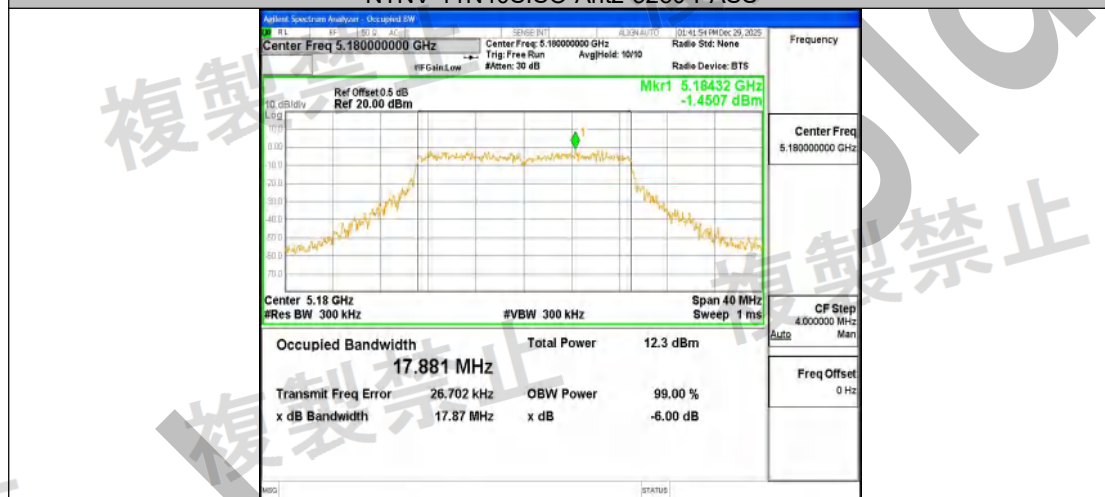
NTVN-11N40SISO-Ant2-5190-PASS



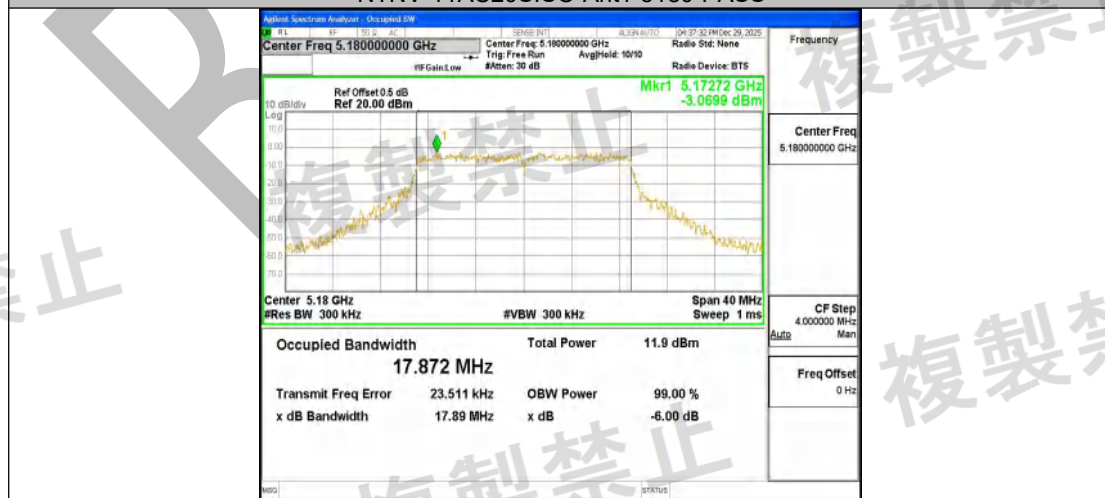
NTVN-11N40SISO-Ant1-5230-PASS



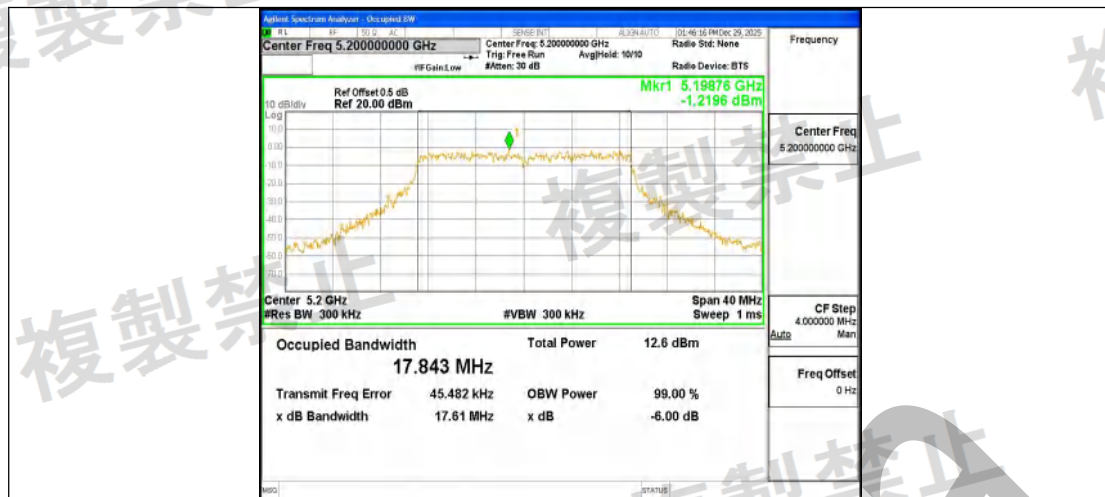
NTVN-11N40SISO-Ant2-5230-PASS



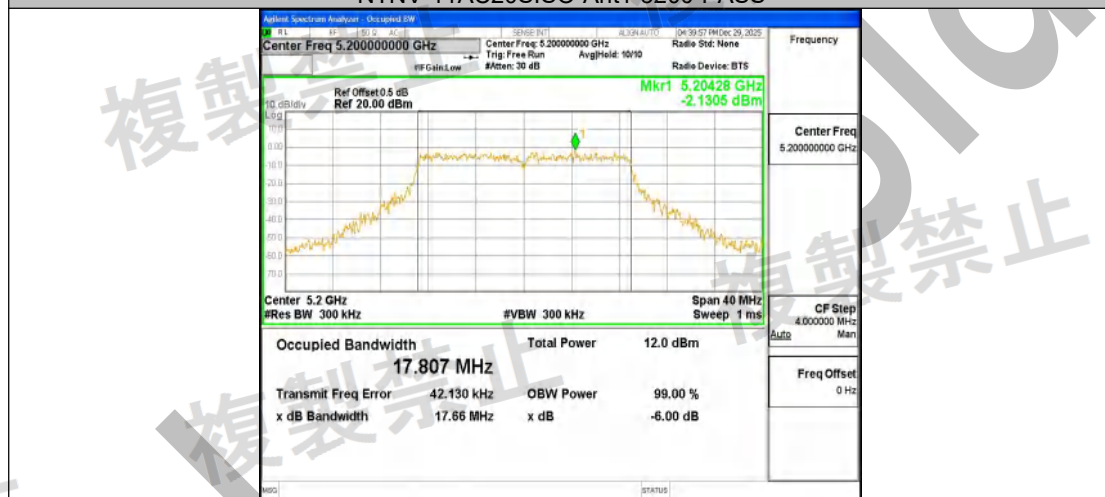
NTVN-11AC20SISO-Ant1-5180-PASS



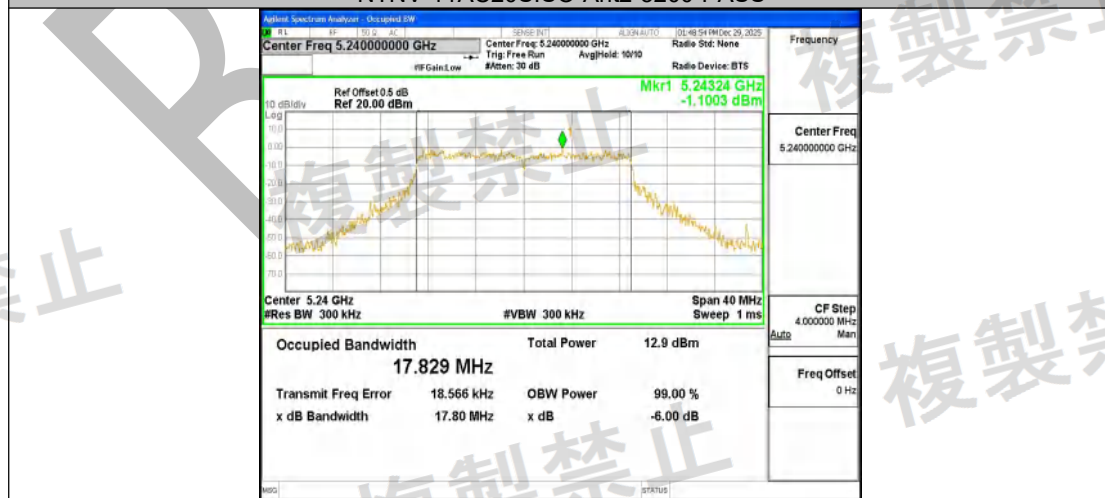
NTVN-11AC20SISO-Ant2-5180-PASS



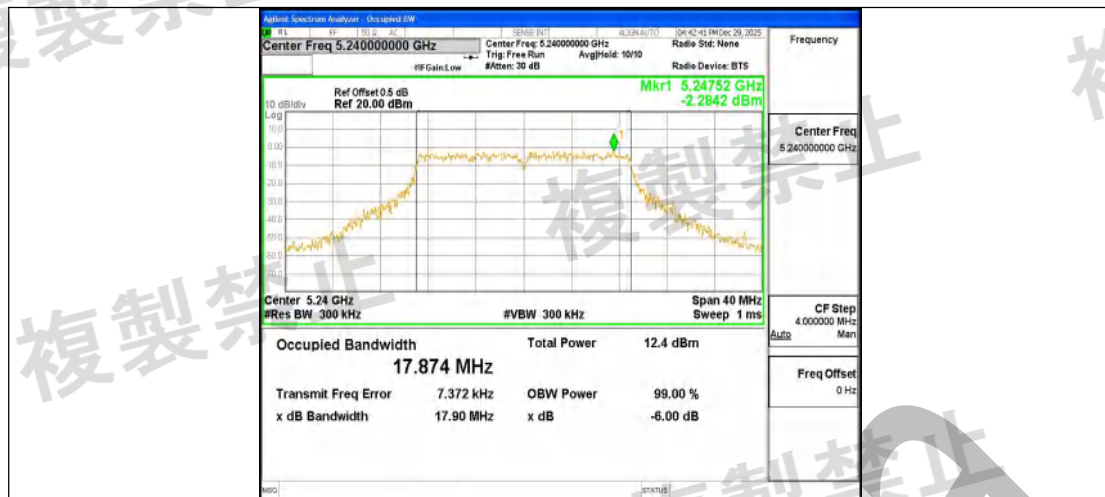
NTNV-11AC20SISO-Ant1-5200-PASS



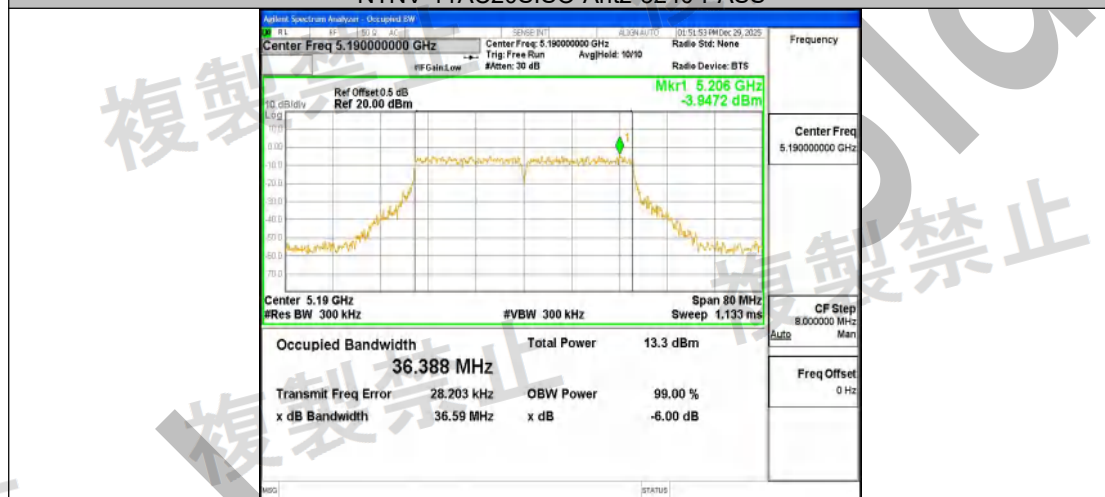
NTNV-11AC20SISO-Ant2-5200-PASS



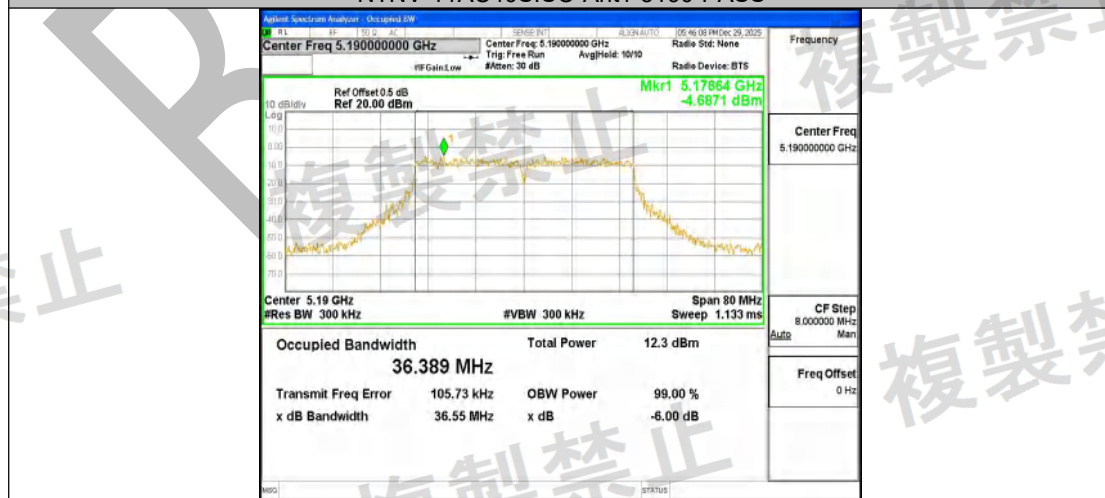
NTNV-11AC20SISO-Ant1-5240-PASS



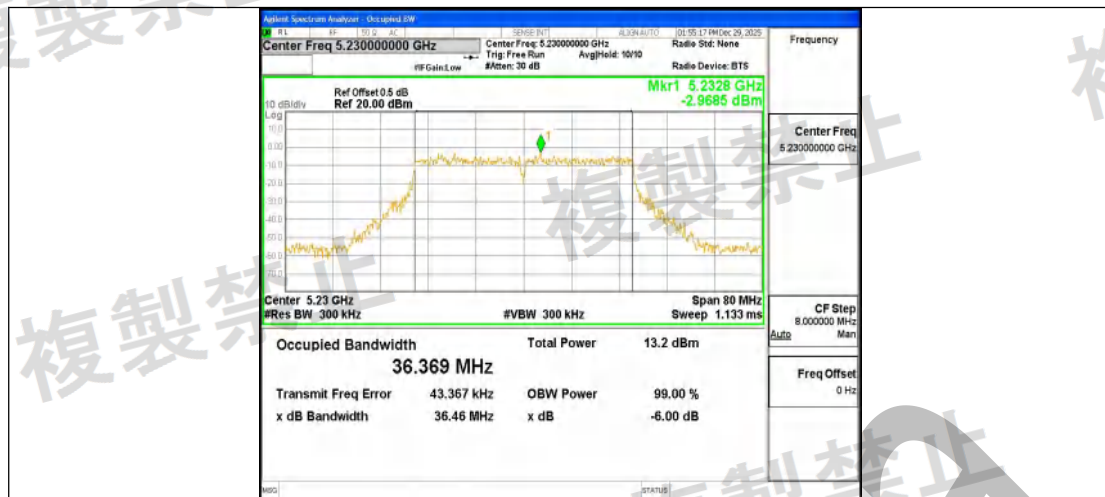
NTNV-11AC20SISO-Ant2-5240-PASS



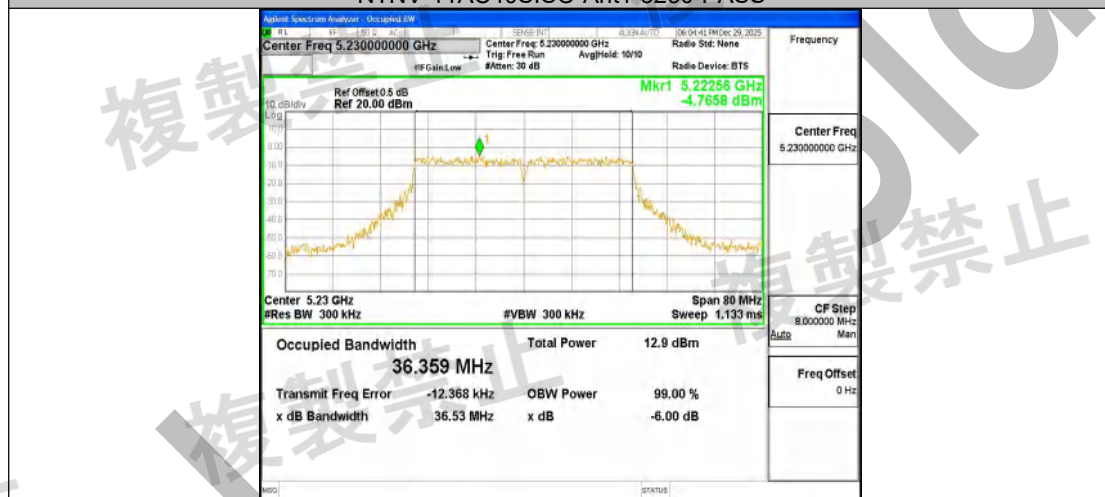
NTNV-11AC40SISO-Ant1-5190-PASS



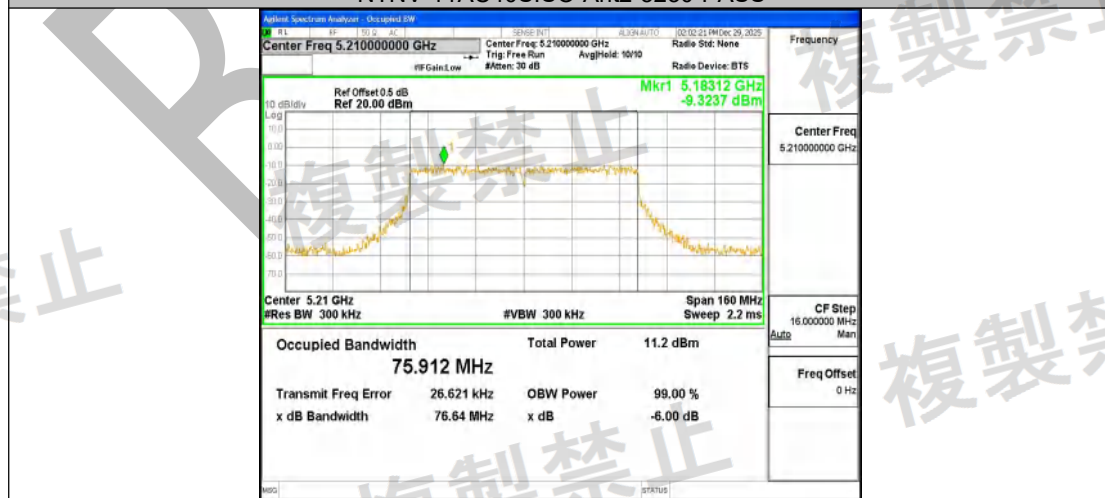
NTNV-11AC40SISO-Ant2-5190-PASS



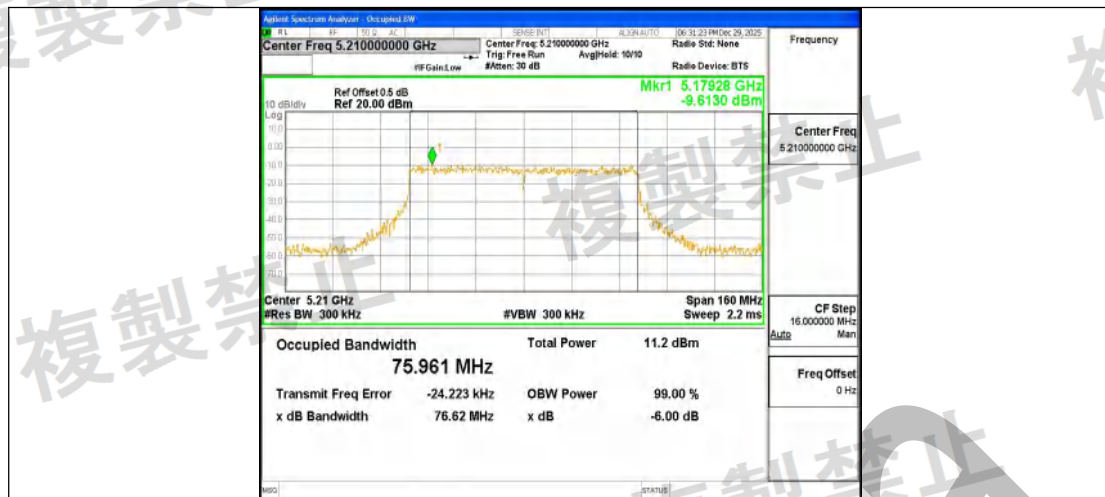
NTNV-11AC40SISO-Ant1-5230-PASS



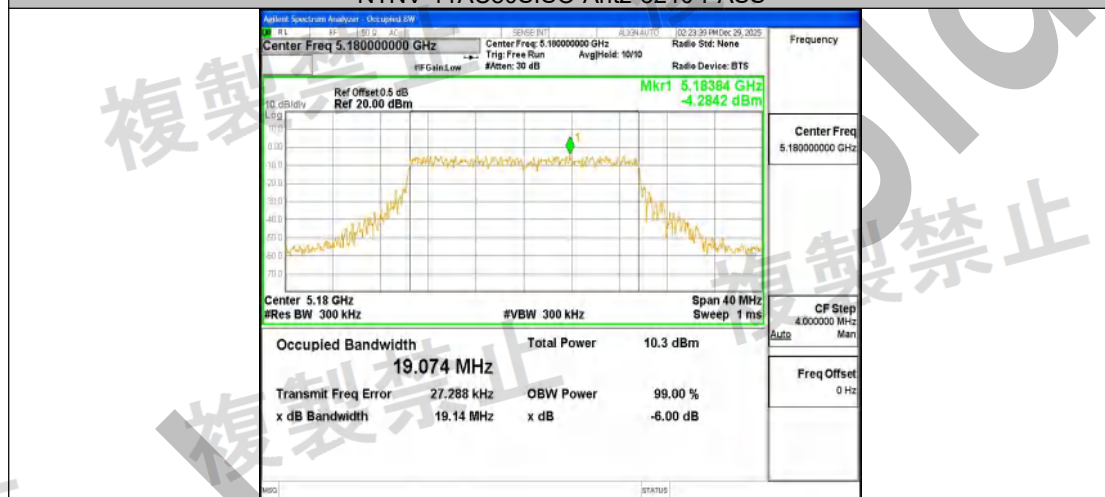
NTNV-11AC40SISO-Ant2-5230-PASS



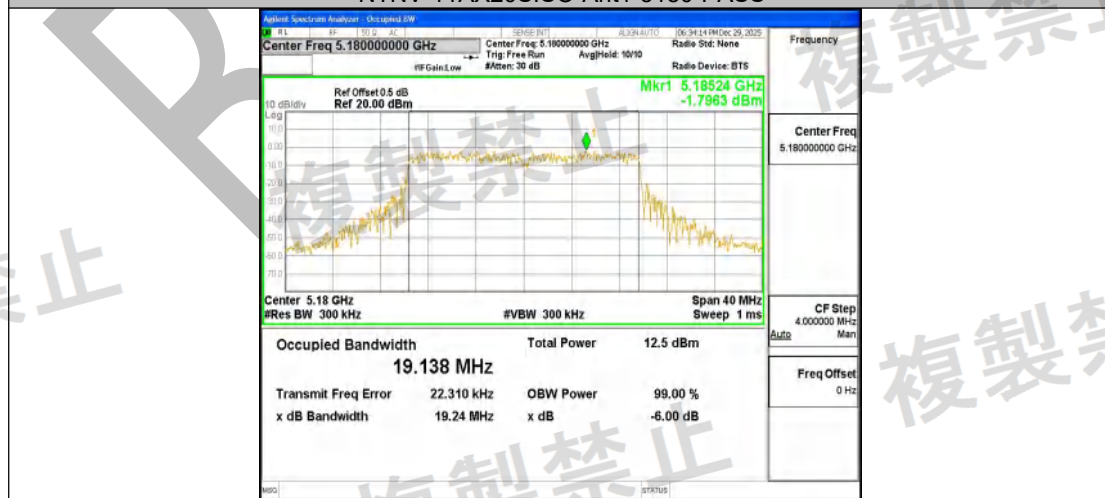
NTNV-11AC80SISO-Ant1-5210-PASS



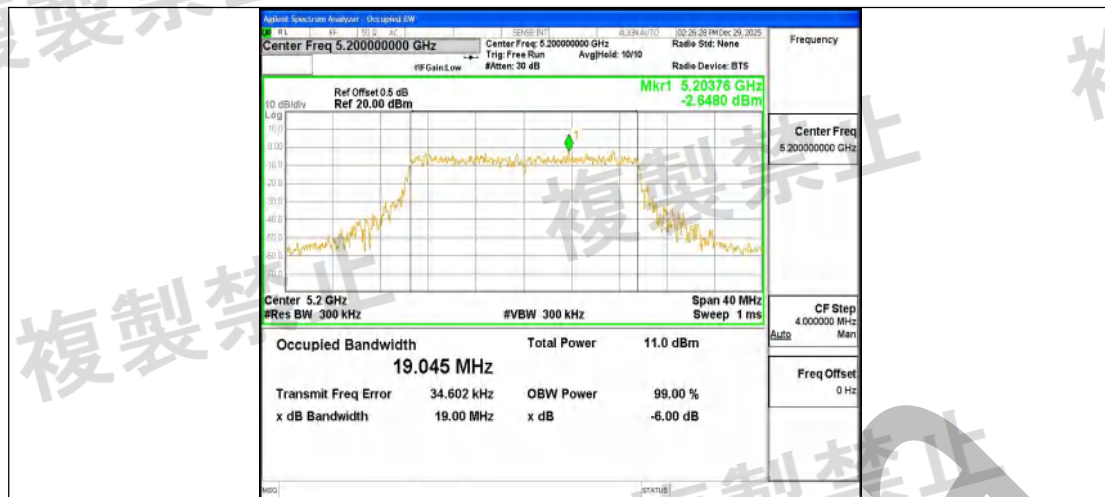
NTNV-11AC80SISO-Ant2-5210-PASS



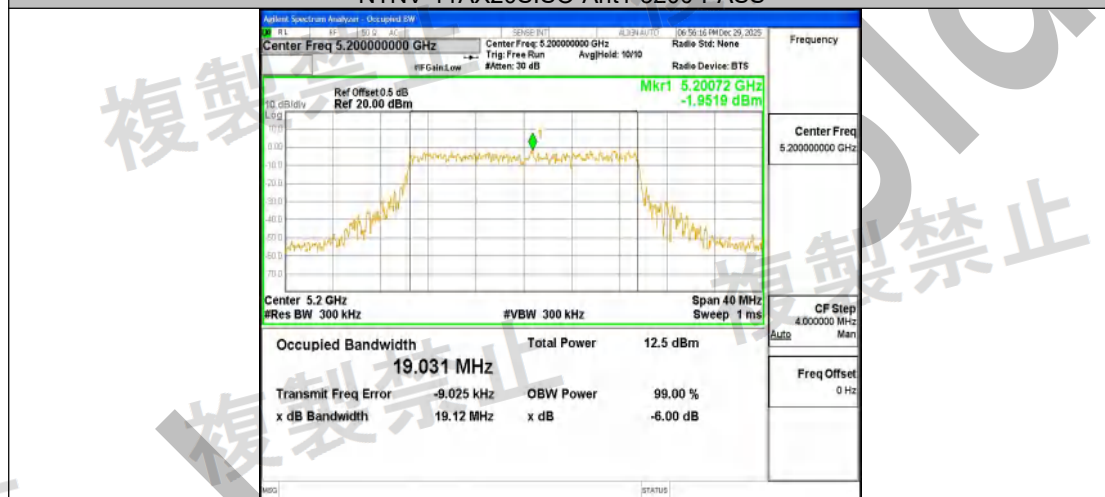
NTNV-11AX20SISO-Ant1-5180-PASS



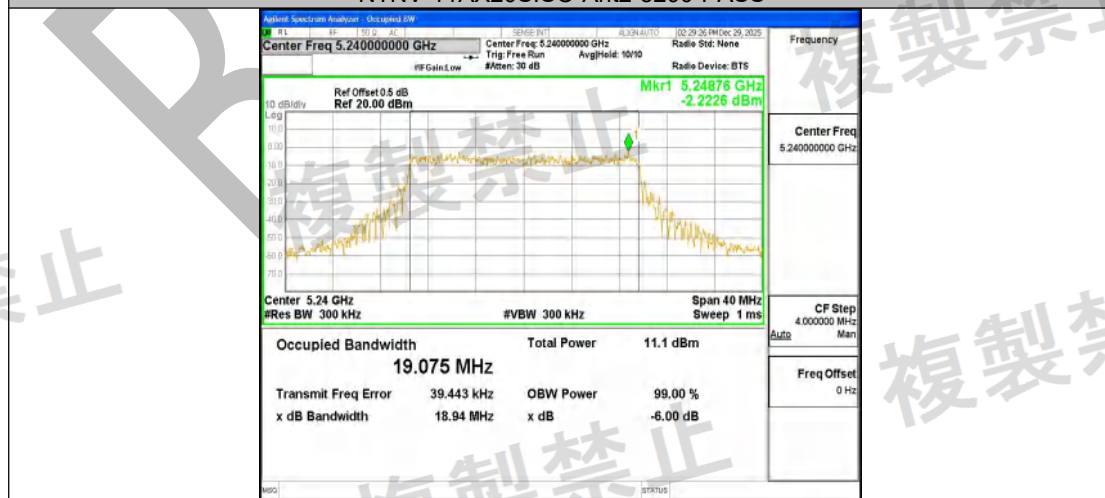
NTNV-11AX20SISO-Ant2-5180-PASS



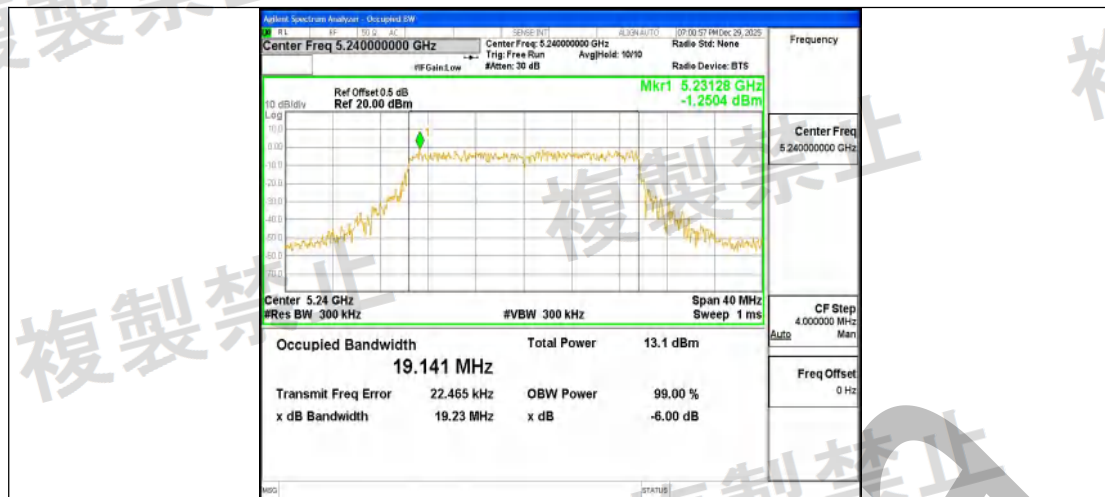
NTNV-11AX20SISO-Ant1-5200-PASS



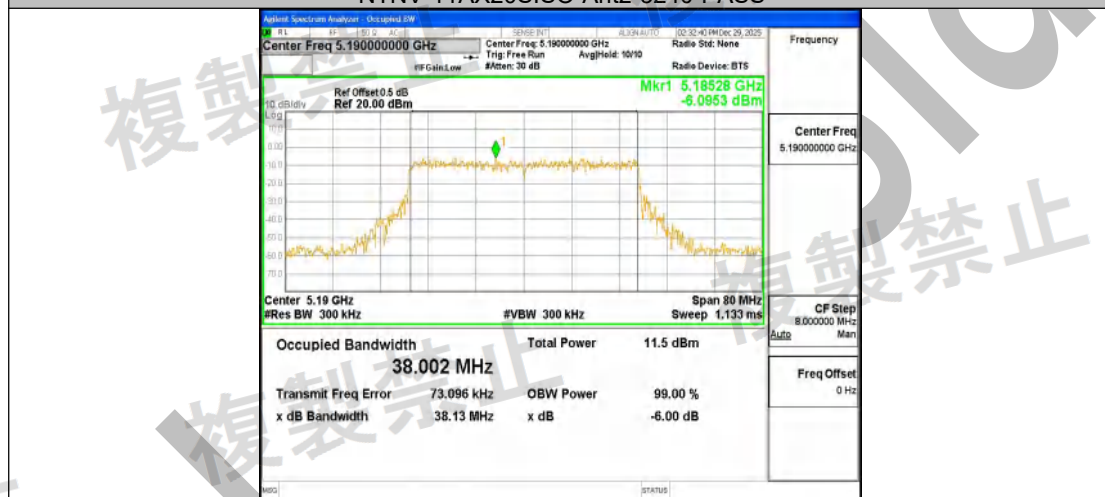
NTNV-11AX20SISO-Ant2-5200-PASS



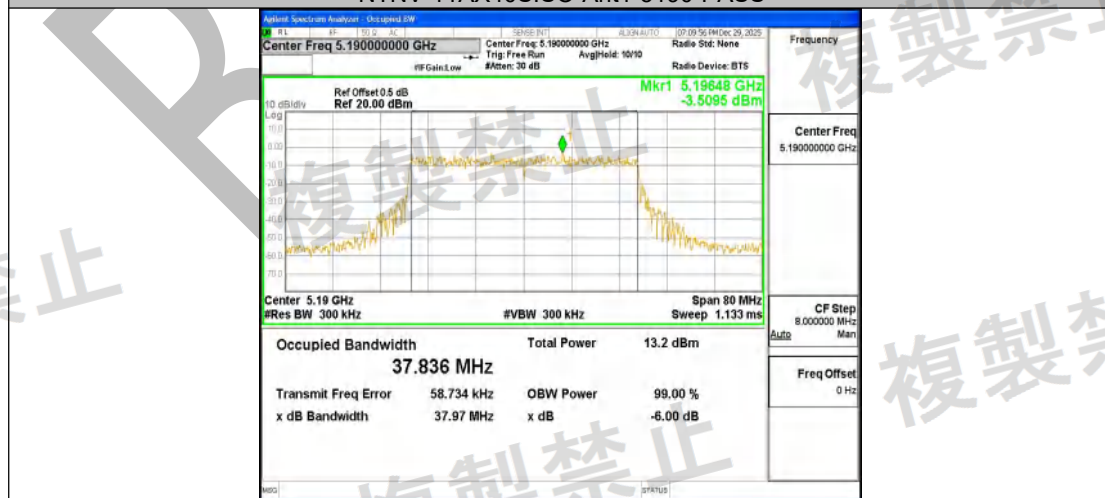
NTNV-11AX20SISO-Ant1-5240-PASS



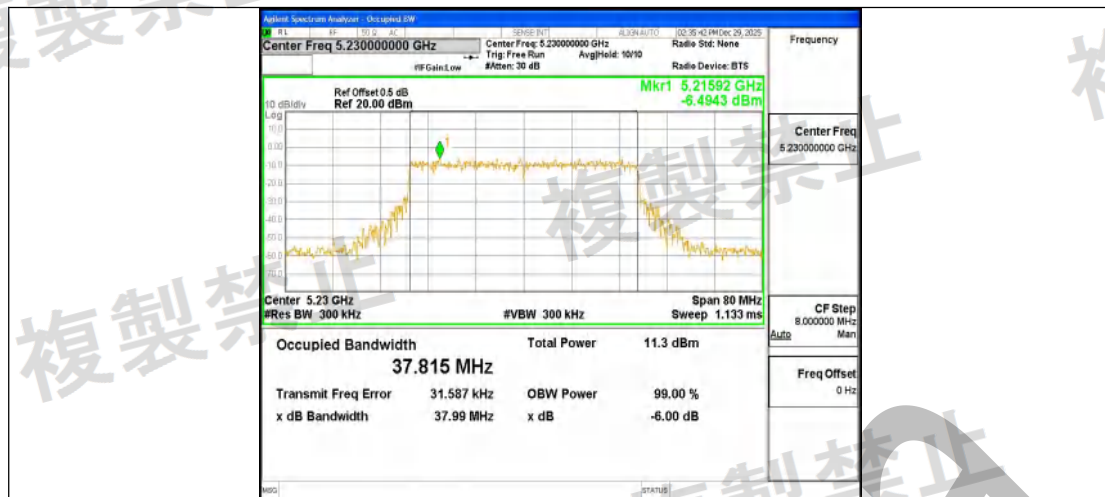
NTNV-11AX20SISO-Ant2-5240-PASS



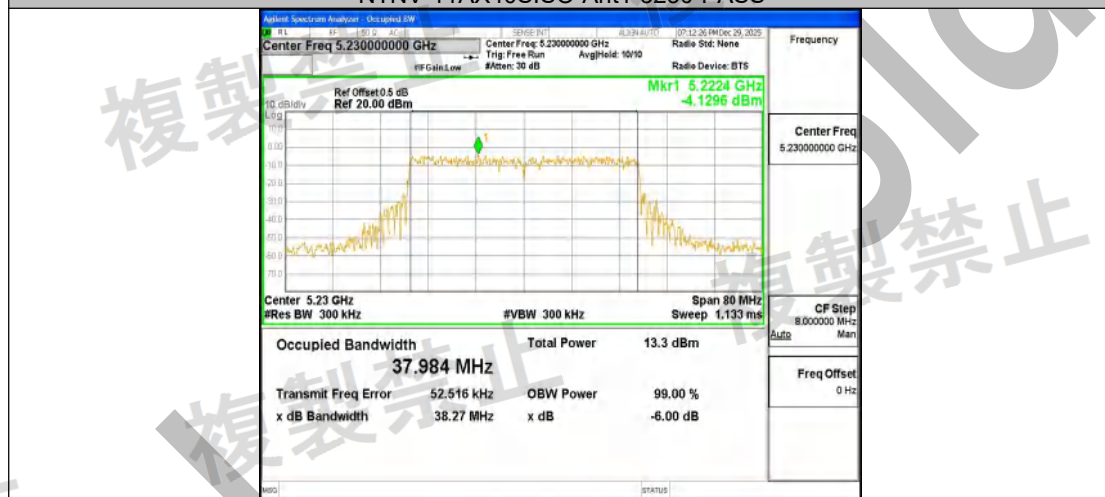
NTNV-11AX40SISO-Ant1-5190-PASS



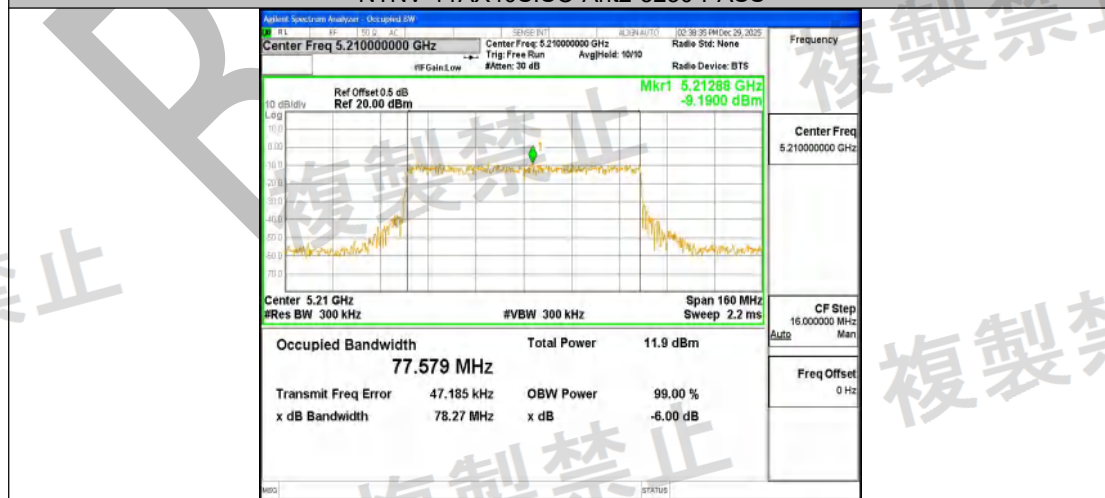
NTNV-11AX40SISO-Ant2-5190-PASS



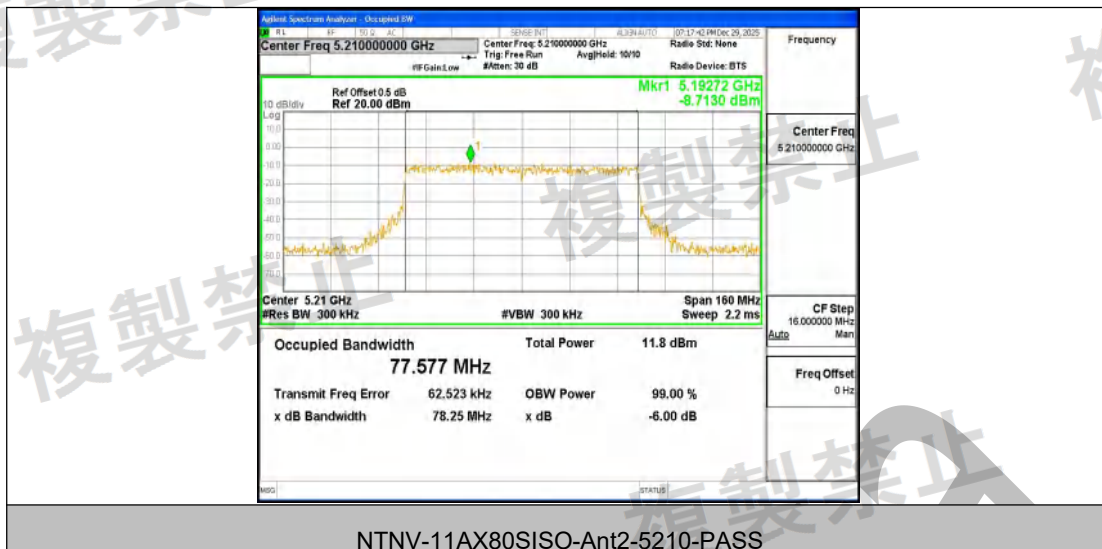
NTNV-11AX40SISO-Ant1-5230-PASS



NTNV-11AX40SISO-Ant2-5230-PASS



NTNV-11AX80SISO-Ant1-5210-PASS



6.7 Antenna Power

Test Requirement: Item 19-3 of Article 2-1

10mW/MHz or less for 20MHz system; 5mW/MHz or less for 40MHz system
2.5mW/MHz or less for 80MHz system

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.

Test Configuration:



Test Procedure:

1) Test Conditions:

Spectrum Analyzer is used for measurement.

2) EUT conditions:

Modulation/Spread

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

3) Spectrum Analyzer conditions:

Setup 1:

Settings for search:

Frequency: Test Frequency

Span OBW×2

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Setup2:

Settings when measuring.

Center frequency: searched frequency.

Span:0MHz

RBW:1MHz

VBW:1MHz

Sweep: Enough capture the burst.

Detector: RMS

Display mode (Trace): Trigger approx.

6.7.1 Test Result

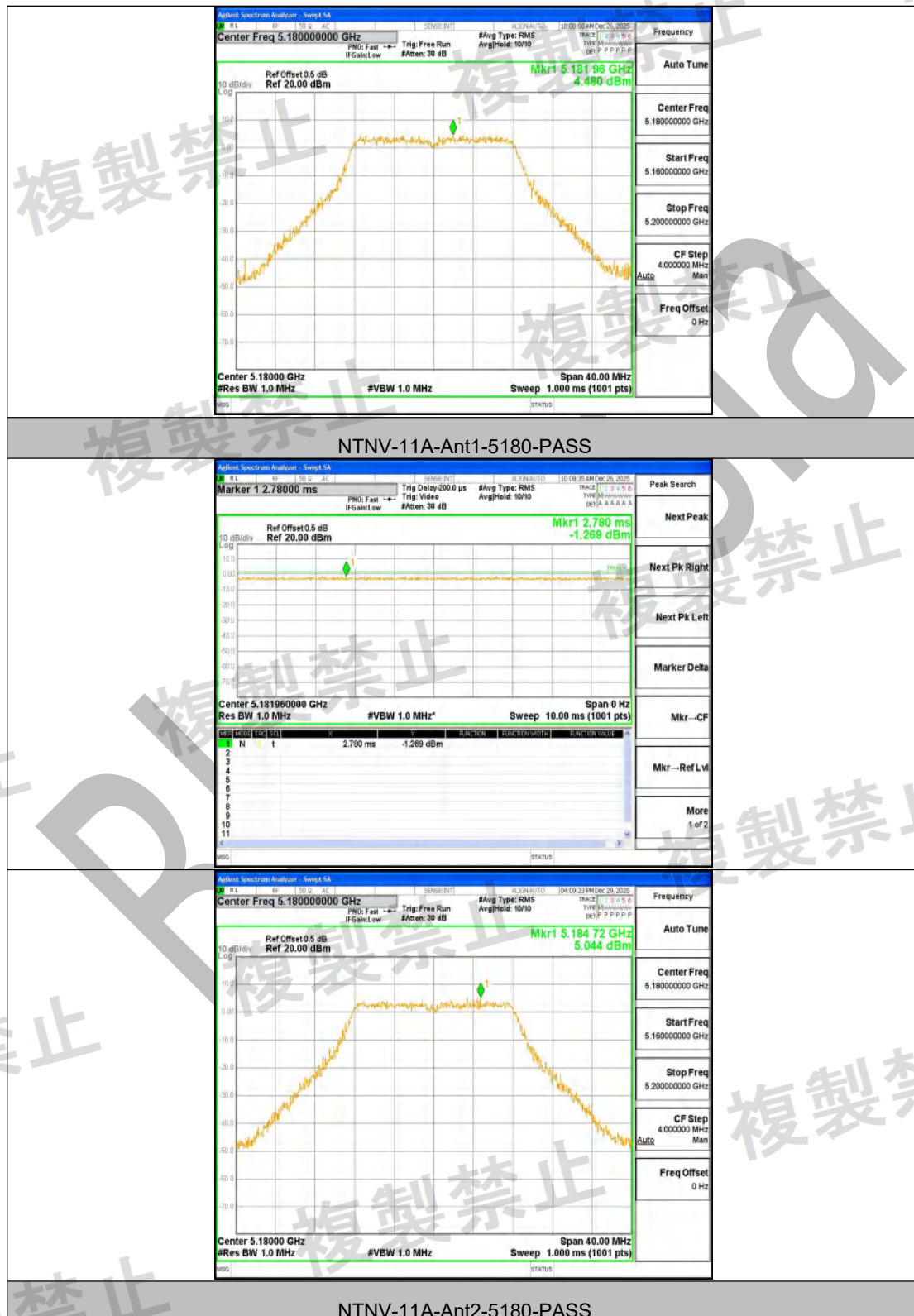
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11A	Ant1	5180	-1.27	0.7464	≤10	PASS
NTNV	11A	Ant2	5180	-1.48	0.7112	≤10	PASS
NTNV	11A	Ant1	5200	-2.12	0.6138	≤10	PASS
NTNV	11A	Ant2	5200	-0.97	0.7998	≤10	PASS
NTNV	11A	Ant1	5240	-1.35	0.7328	≤10	PASS
NTNV	11A	Ant2	5240	-0.75	0.8414	≤10	PASS
NTNV	11N20SISO	Ant1	5180	-1.30	0.7413	≤10	PASS
NTNV	11N20SISO	Ant2	5180	-1.15	0.7674	≤10	PASS
NTNV	11N20SISO	Ant1	5200	-0.64	0.8630	≤10	PASS
NTNV	11N20SISO	Ant2	5200	-1.00	0.7943	≤10	PASS
NTNV	11N20SISO	Ant1	5240	-2.55	0.5559	≤10	PASS
NTNV	11N20SISO	Ant2	5240	-0.87	0.8185	≤10	PASS
NTNV	11N40SISO	Ant1	5190	-4.49	0.3556	≤5	PASS
NTNV	11N40SISO	Ant2	5190	-4.64	0.3436	≤5	PASS
NTNV	11N40SISO	Ant1	5230	-4.16	0.3837	≤5	PASS
NTNV	11N40SISO	Ant2	5230	-4.08	0.3908	≤5	PASS
NTNV	11AC20SISO	Ant1	5180	-1.54	0.7015	≤10	PASS
NTNV	11AC20SISO	Ant2	5180	-0.65	0.8610	≤10	PASS
NTNV	11AC20SISO	Ant1	5200	-0.06	0.9863	≤10	PASS
NTNV	11AC20SISO	Ant2	5200	-1.46	0.7145	≤10	PASS
NTNV	11AC20SISO	Ant1	5240	-1.99	0.6324	≤10	PASS
NTNV	11AC20SISO	Ant2	5240	-0.55	0.8810	≤10	PASS
NTNV	11AC40SISO	Ant1	5190	-3.49	0.4477	≤5	PASS
NTNV	11AC40SISO	Ant2	5190	-4.58	0.3483	≤5	PASS
NTNV	11AC40SISO	Ant1	5230	-3.72	0.4246	≤5	PASS
NTNV	11AC40SISO	Ant2	5230	-3.60	0.4365	≤5	PASS
NTNV	11AC80SISO	Ant1	5210	-9.57	0.1104	≤2.5	PASS
NTNV	11AC80SISO	Ant2	5210	-8.96	0.1271	≤2.5	PASS
NTNV	11AX20SISO	Ant1	5180	-3.66	0.4305	≤10	PASS
NTNV	11AX20SISO	Ant2	5180	-1.76	0.6668	≤10	PASS
NTNV	11AX20SISO	Ant1	5200	-2.57	0.5534	≤10	PASS

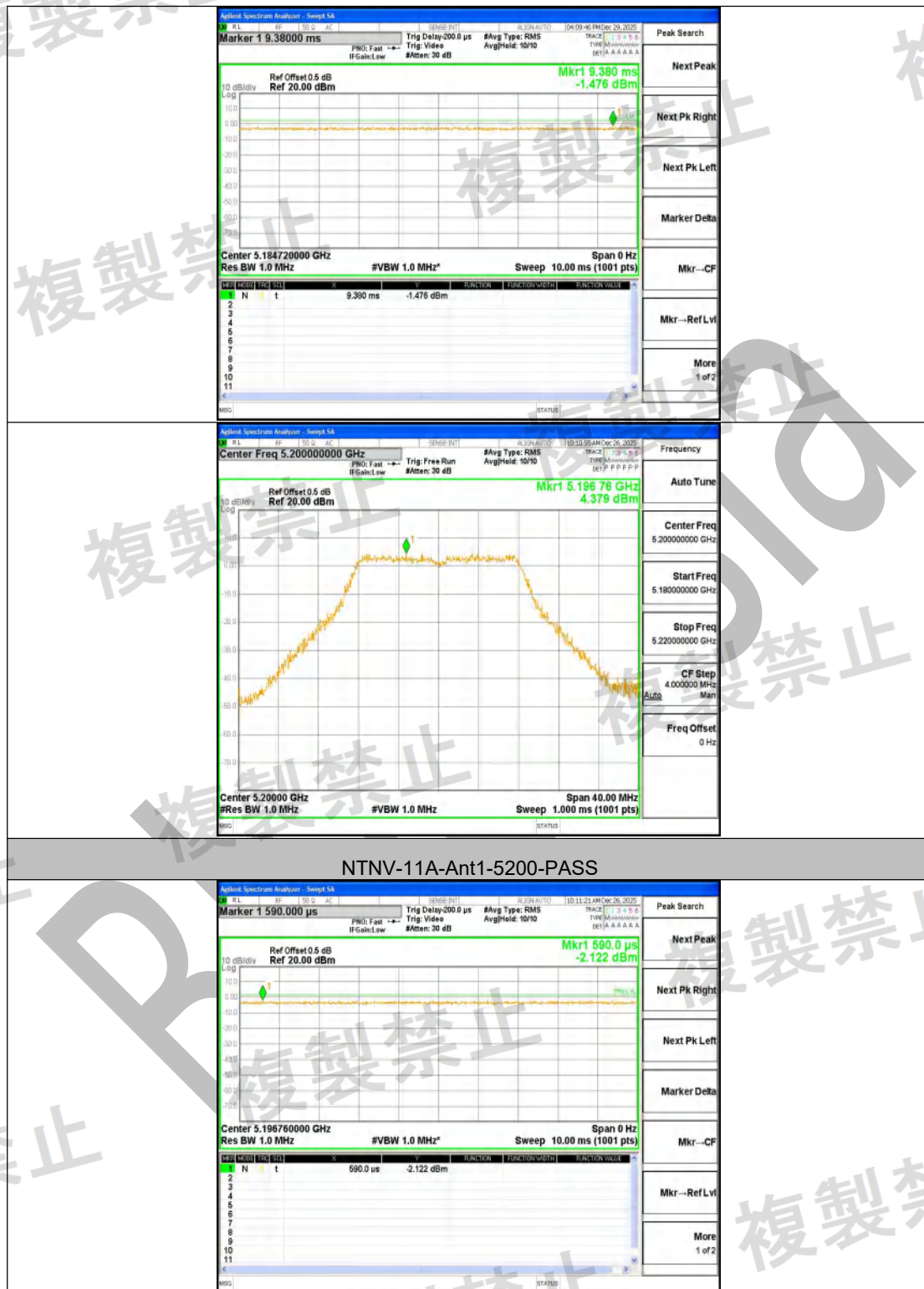
NTNV	11AX20SISO	Ant2	5200	-1.14	0.7691	≤10	PASS
NTNV	11AX20SISO	Ant1	5240	-3.04	0.4966	≤10	PASS
NTNV	11AX20SISO	Ant2	5240	-1.03	0.7889	≤10	PASS
NTNV	11AX40SISO	Ant1	5190	-5.68	0.2704	≤5	PASS
NTNV	11AX40SISO	Ant2	5190	-4.73	0.3365	≤5	PASS
NTNV	11AX40SISO	Ant1	5230	-6.36	0.2312	≤5	PASS
NTNV	11AX40SISO	Ant2	5230	-3.97	0.4009	≤5	PASS
NTNV	11AX80SISO	Ant1	5210	-8.97	0.1268	≤2.5	PASS
NTNV	11AX80SISO	Ant2	5210	-8.99	0.1262	≤2.5	PASS

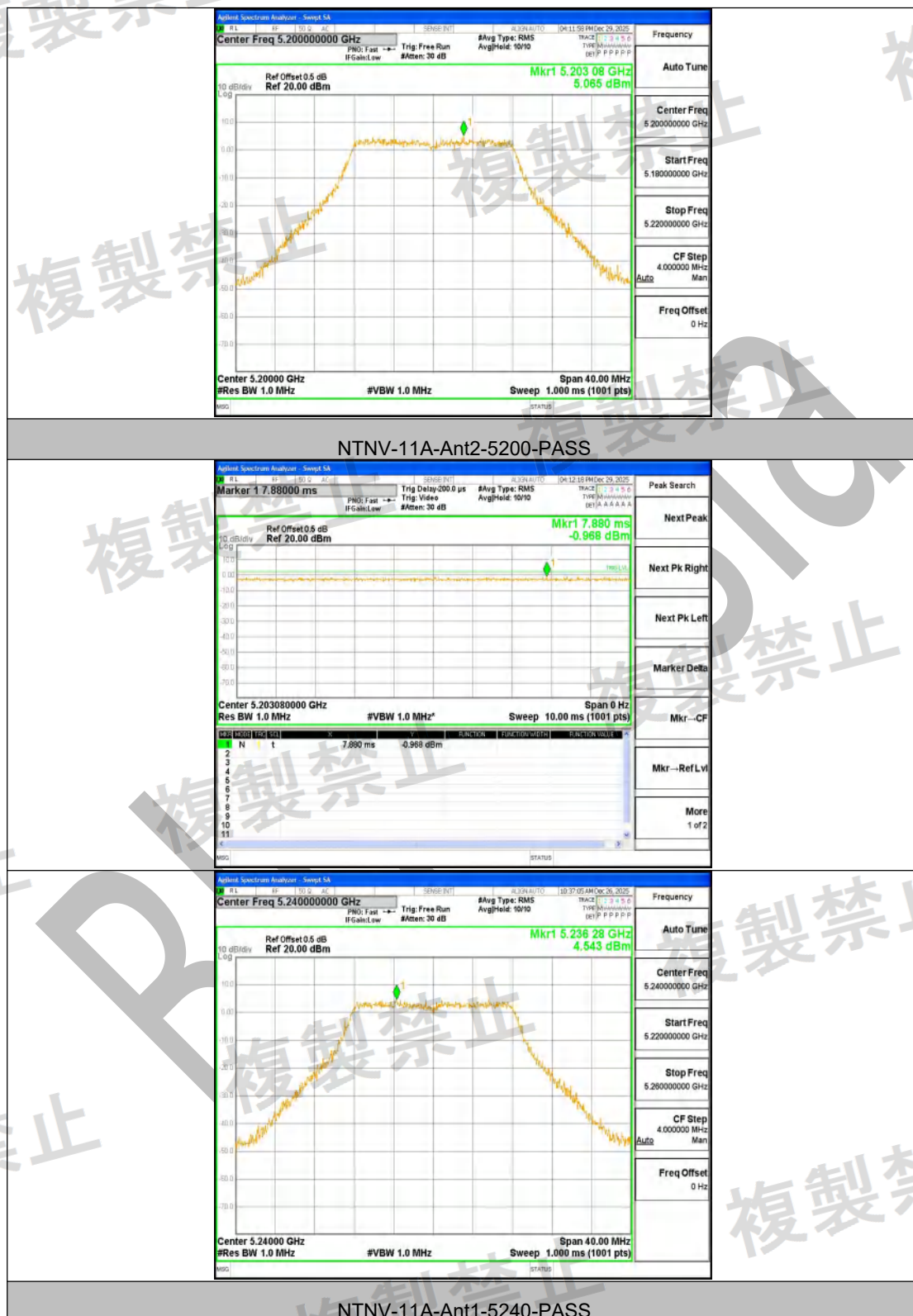
AntennaPower						
TestCondition	TestMode	Antenna	Frequency(MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11N20MIMO	Ant1+ Ant 2	5180	1.5087	≤10	PASS
			5200	1.6573	≤10	PASS
			5240	1.3543	≤10	PASS
	11N40MIMO	Ant1+ Ant 2	5190	0.6992	≤5	PASS
			5230	0.7745	≤5	PASS
	11AC20MIMO	Ant1+ Ant 2	5180	1.5625	≤10	PASS
			5200	1.7008	≤10	PASS
			5240	1.5134	≤10	PASS
	11AC40MIMO	Ant1+ Ant 2	5190	0.7960	≤5	PASS
			5230	0.8611	≤5	PASS
	11AC80MIMO	Ant1+ Ant 2	5210	0.2375	≤2.5	PASS
	11AX20MIMO	Ant1+ Ant 2	5180	1.0973	≤10	PASS
			5200	1.3225	≤10	PASS
			5240	1.2855	≤10	PASS
	11AX40MIMO	Ant1+ Ant 2	5190	0.6069	≤5	PASS
			5230	0.6321	≤5	PASS
	11AX80MIMO	Ant1+ Ant 2	5210	0.2530	≤2.5	PASS

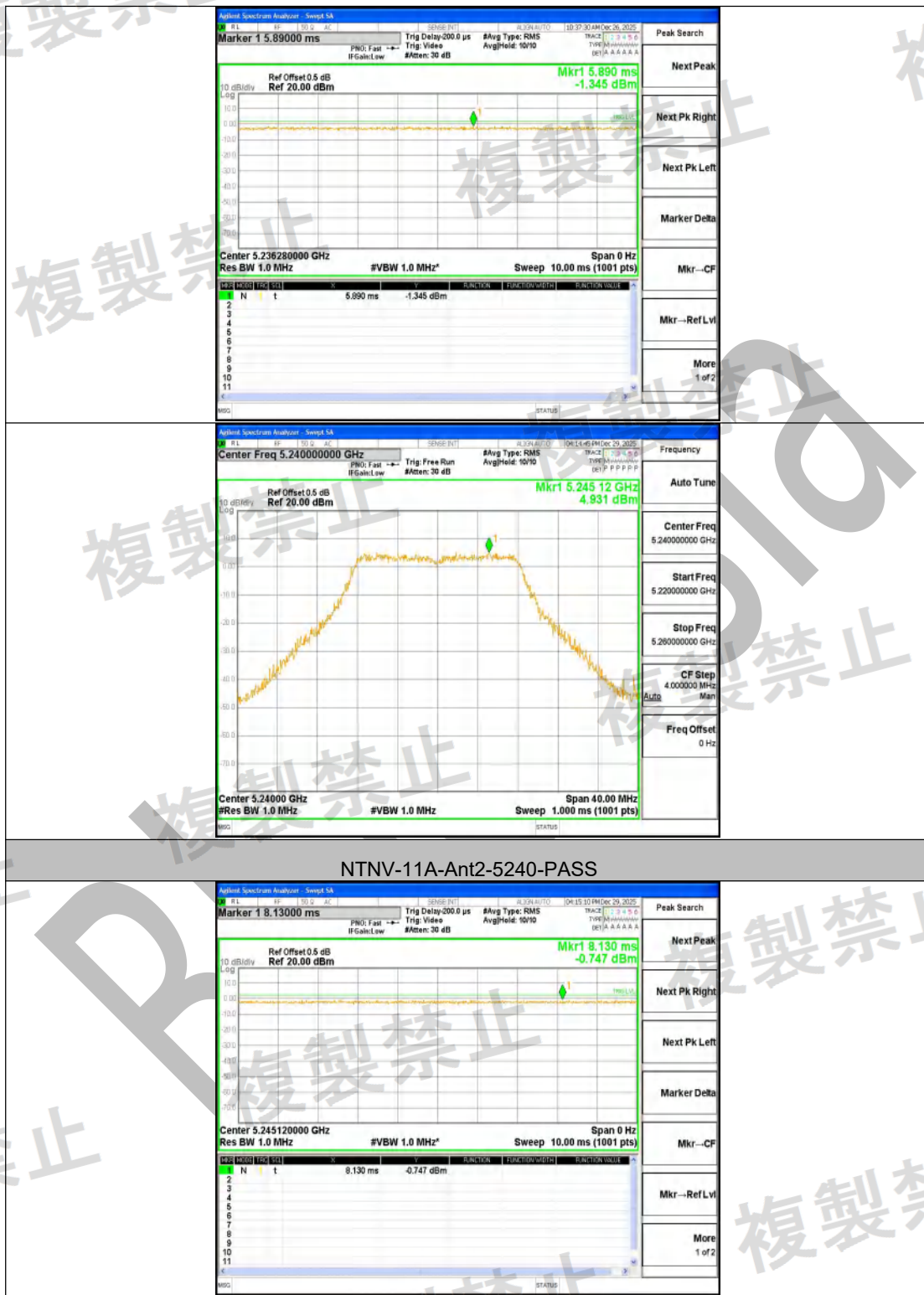
Tolerance								
Test Condition	Test Mode	Antenna	Frequency(MHz)	Power (mW/MHz)	RatedPower (mW/MHz)	Result(%)	Limit(%)	Verdict
NTNV	11A	Ant1	5180	0.7464	1.00	-25.36	+20, -80%	PASS
		Ant2	5180	0.7112	1.00	-28.88	+20, -80%	PASS
		Ant1	5200	0.6138	1.00	-38.62	+20, -80%	PASS
		Ant2	5200	0.7998	1.00	-20.02	+20, -80%	PASS
		Ant1	5240	0.7328	1.00	-26.72	+20, -80%	PASS
		Ant2	5240	0.8414	1.00	-15.86	+20, -80%	PASS
	11N20MIMO	Ant1+	5180	1.5087	2.00	-24.57	+20, -80%	PASS
			5200	1.6573	2.00	-17.14	+20, -80%	PASS
		Ant 2	5240	1.3543	2.00	-32.29	+20, -80%	PASS
	11N40MIMO	Ant1+	5190	0.6992	2.00	-65.04	+20, -80%	PASS
		Ant 2	5230	0.7745	2.00	-61.28	+20, -80%	PASS
	11AC20MIMO	Ant1+	5180	1.5625	2.00	-21.88	+20, -80%	PASS
			5200	1.7008	2.00	-14.96	+20, -80%	PASS
		Ant 2	5240	1.5134	2.00	-24.33	+20, -80%	PASS
	11AC40MIMO	Ant1+	5190	0.7960	2.00	-60.20	+20, -80%	PASS
		Ant 2	5230	0.8611	2.00	-56.95	+20, -80%	PASS
	11AC80MIMO	Ant1+	5210	0.2375	0.50	-52.50	+20, -80%	PASS
	11AX20MIMO	Ant1+	5180	1.0973	2.00	-45.14	+20, -80%	PASS
			5200	1.3225	2.00	-33.88	+20, -80%	PASS
		Ant 2	5240	1.2855	2.00	-35.73	+20, -80%	PASS
	11AX40MIMO	Ant1+	5190	0.6069	2.00	-69.66	+20, -80%	PASS
		Ant 2	5230	0.6321	2.00	-68.40	+20, -80%	PASS
	11AX80MIMO	Ant1+	5210	0.2530	0.50	-49.40	+20, -80%	PASS

6.7.2 Test Graphs

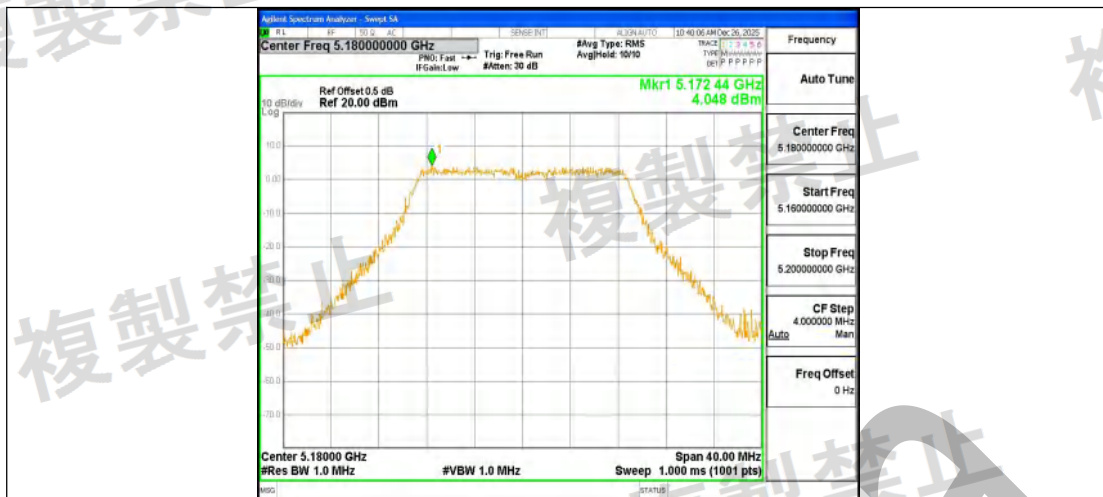




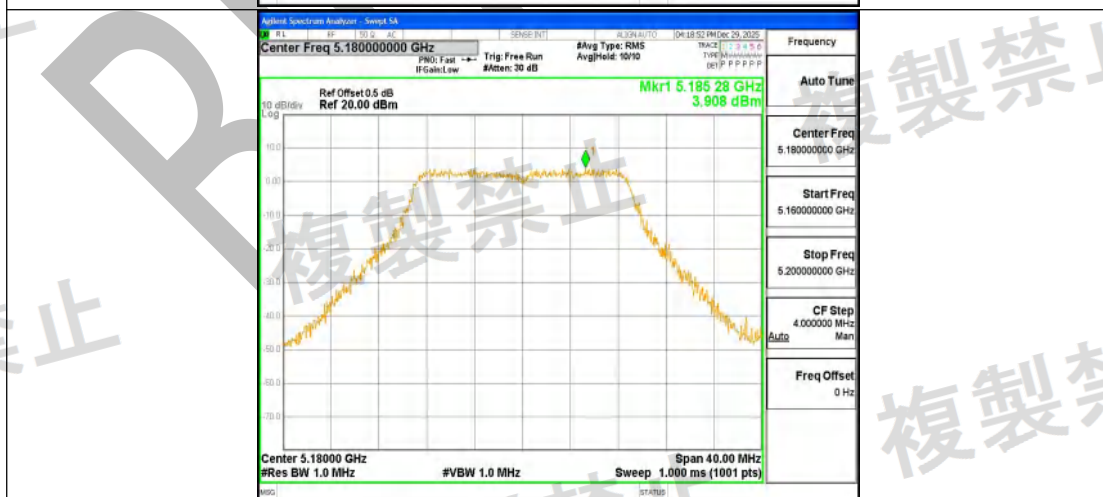




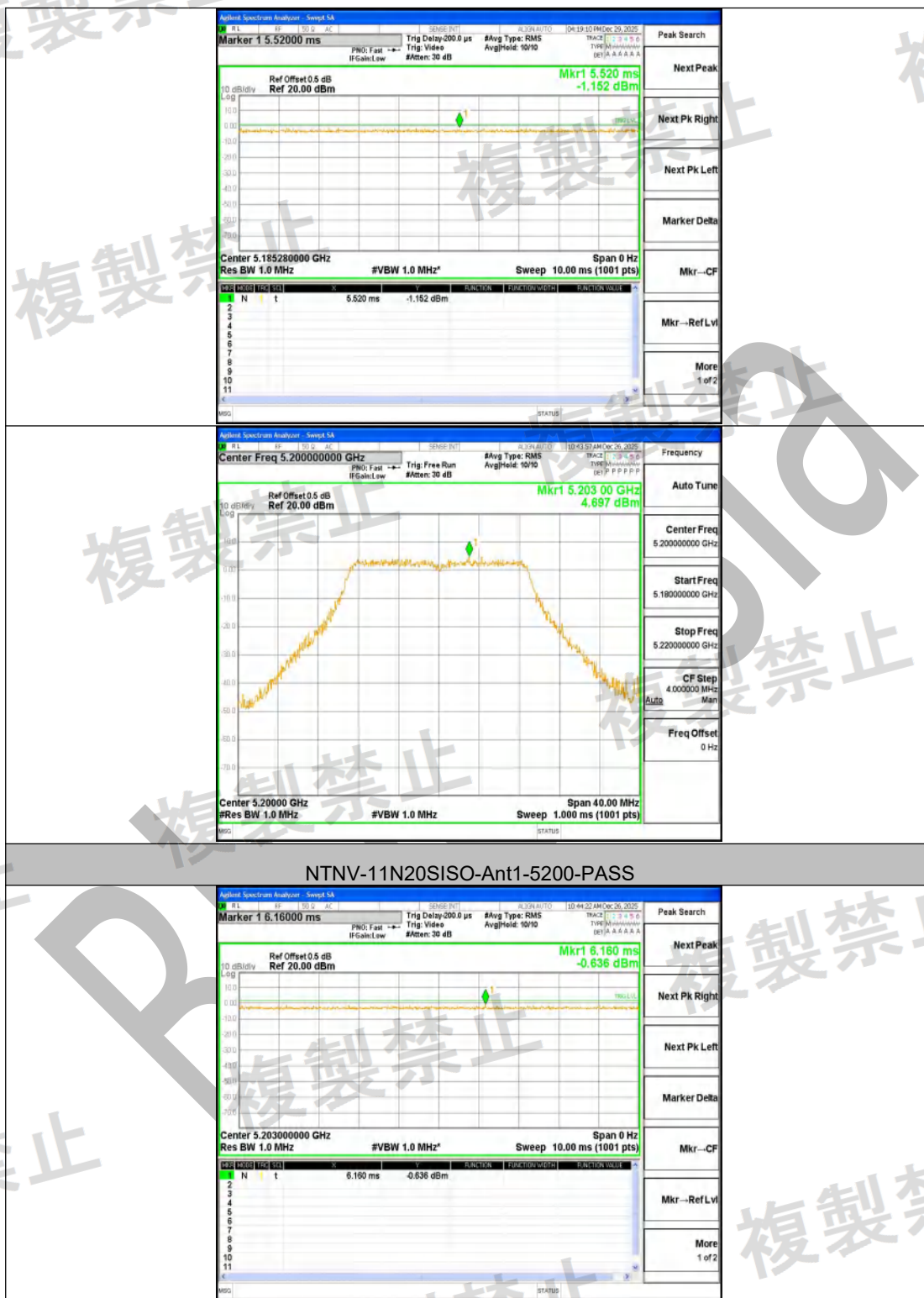
NTNV-11A-Ant2-5240-PASS



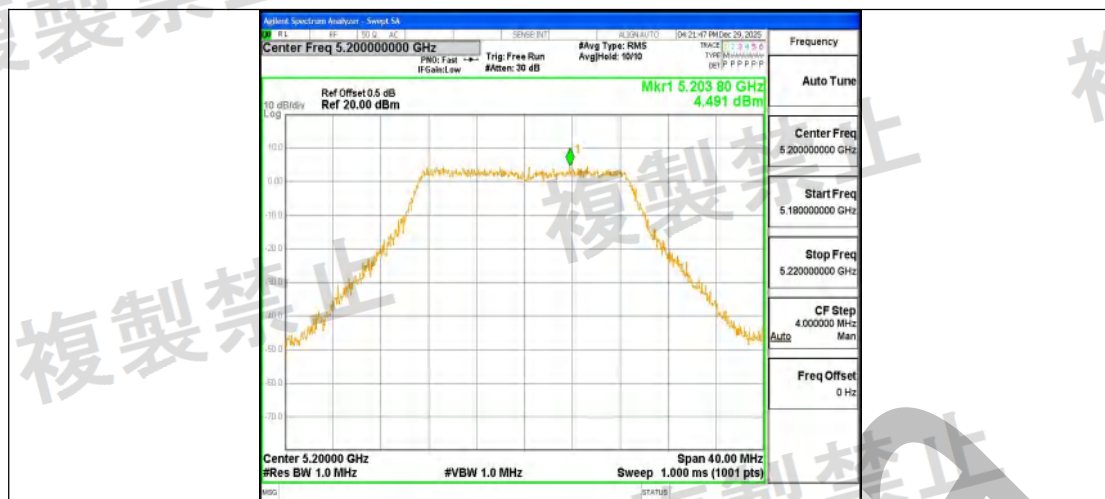
NTNV-11N20SISO-Ant1-5180-PASS



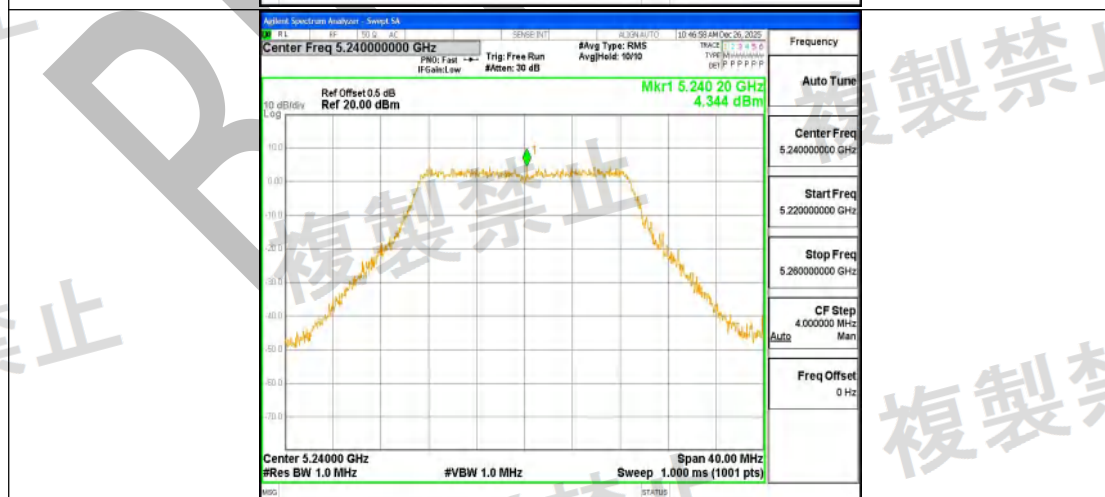
NTNV-11N20SISO-Ant2-5180-PASS



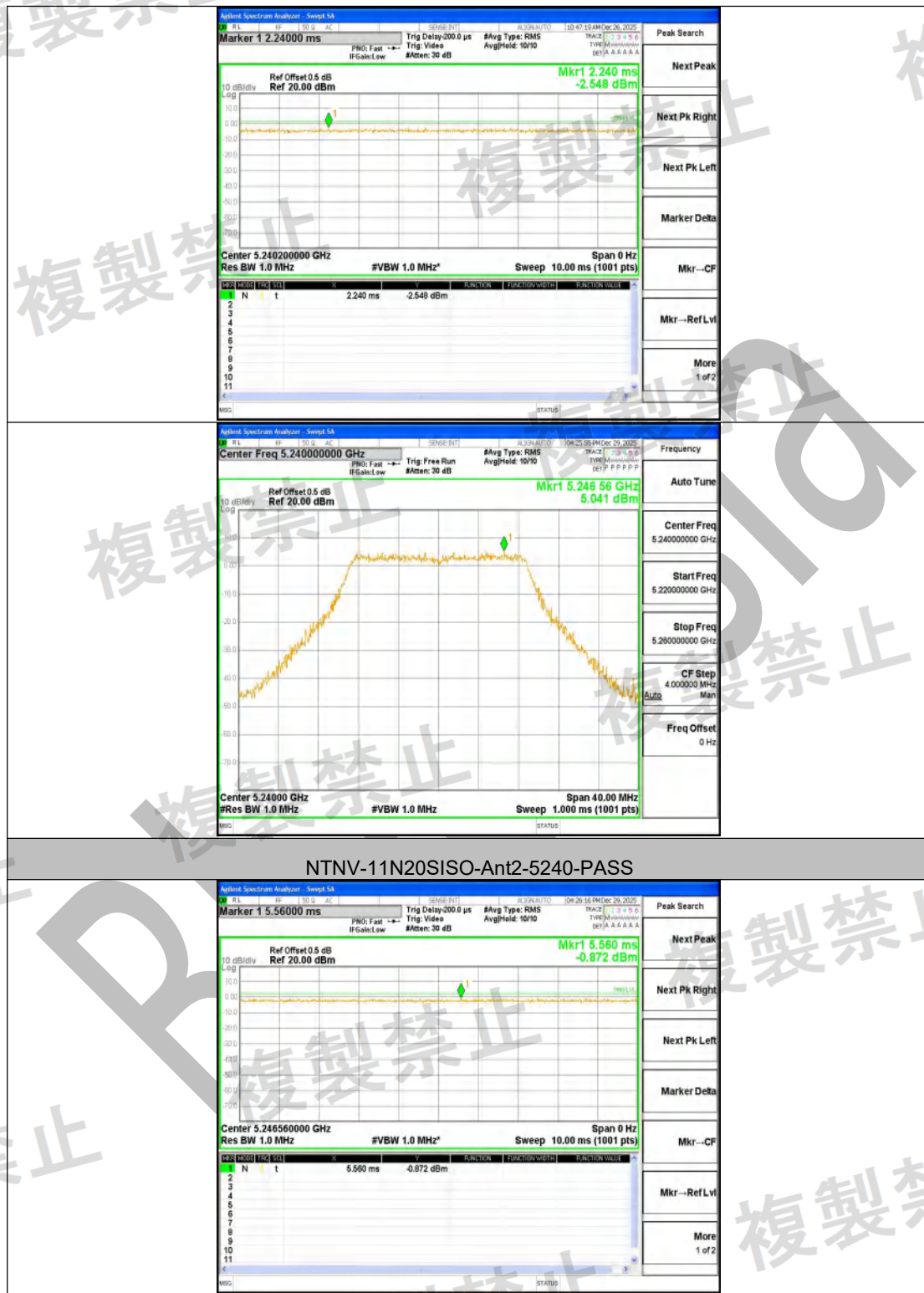
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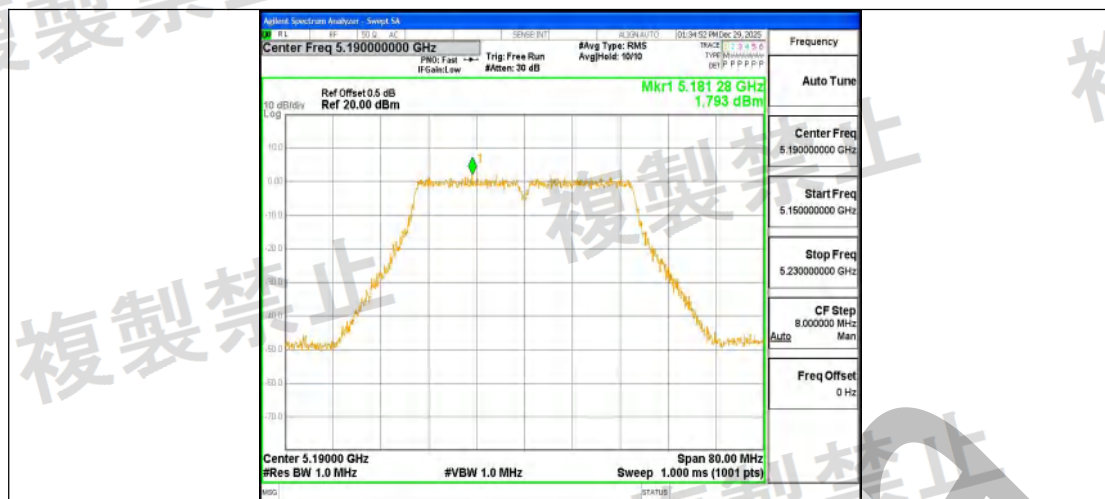


NTNV-11N20SISO-Ant2-5200-PASS



NTNV-11N20SISO-Ant1-5240-PASS

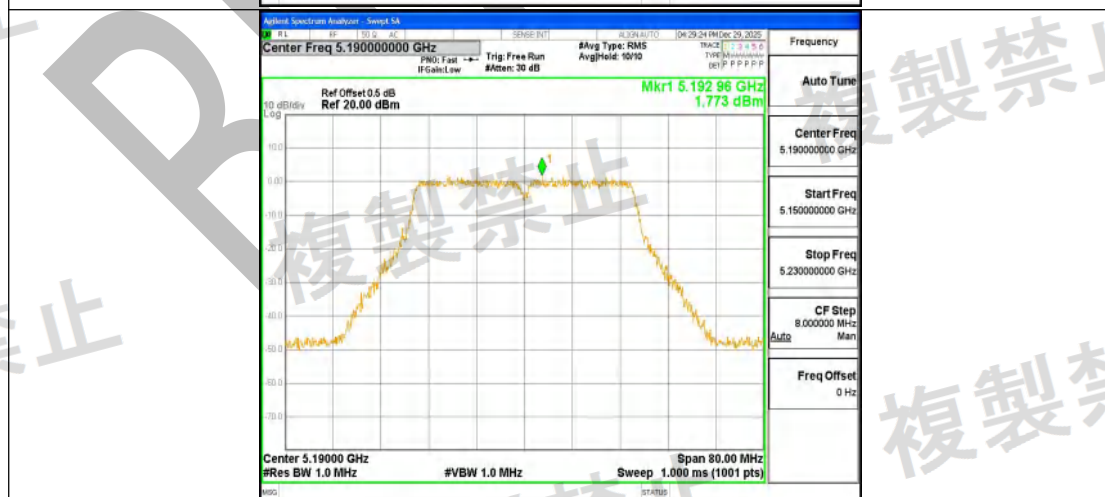


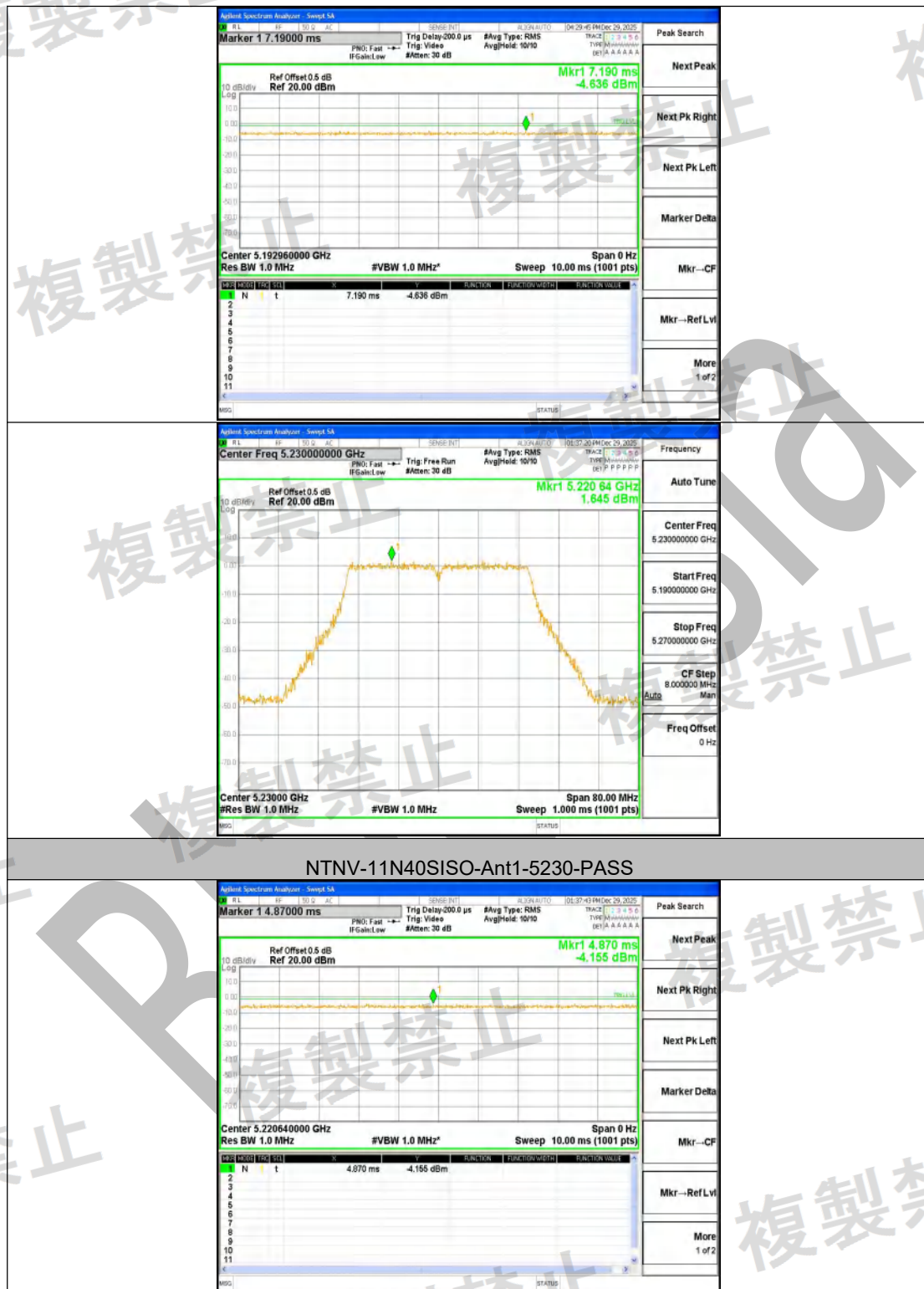


NTNV-11N40SISO-Ant1-5190-PASS

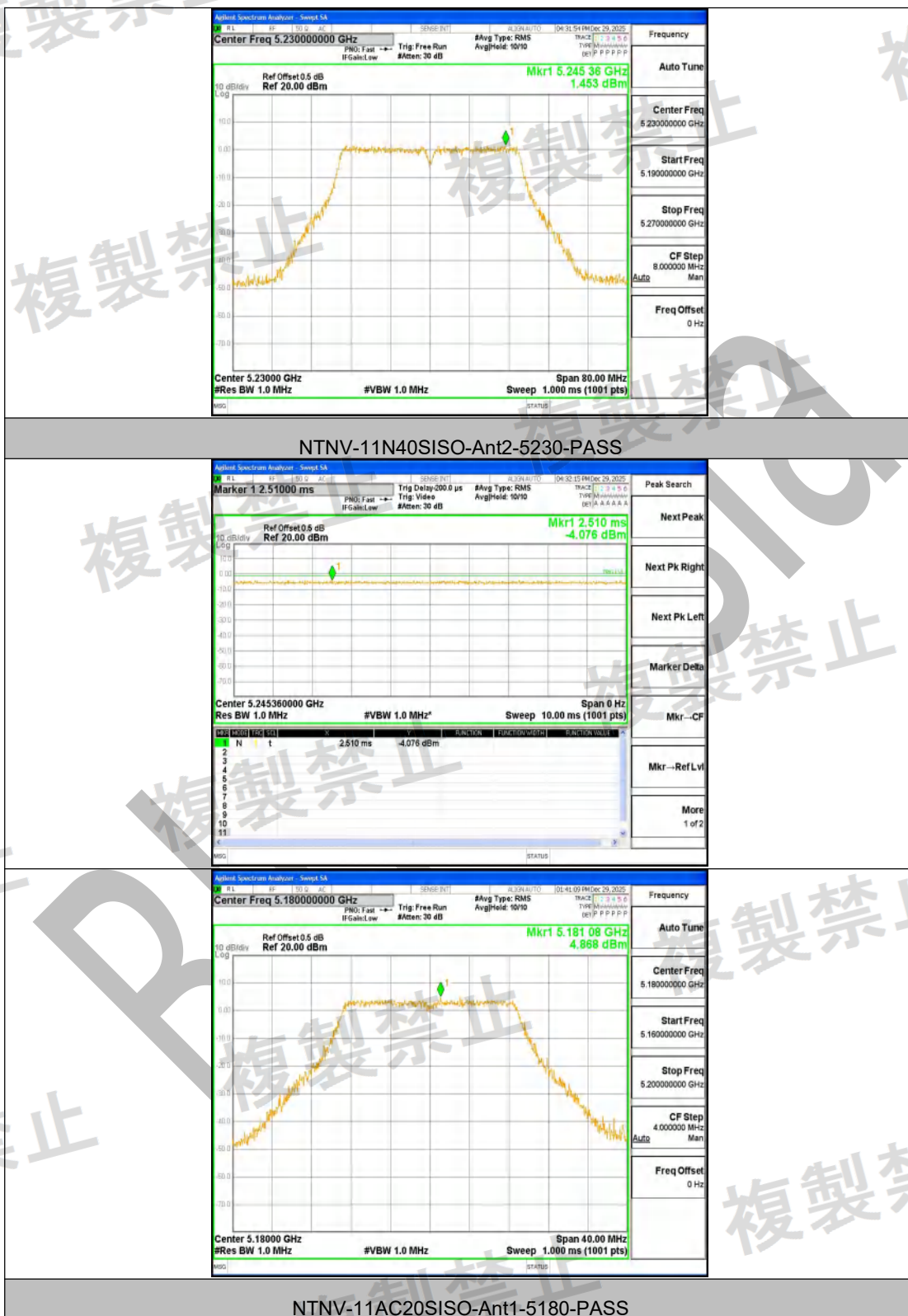


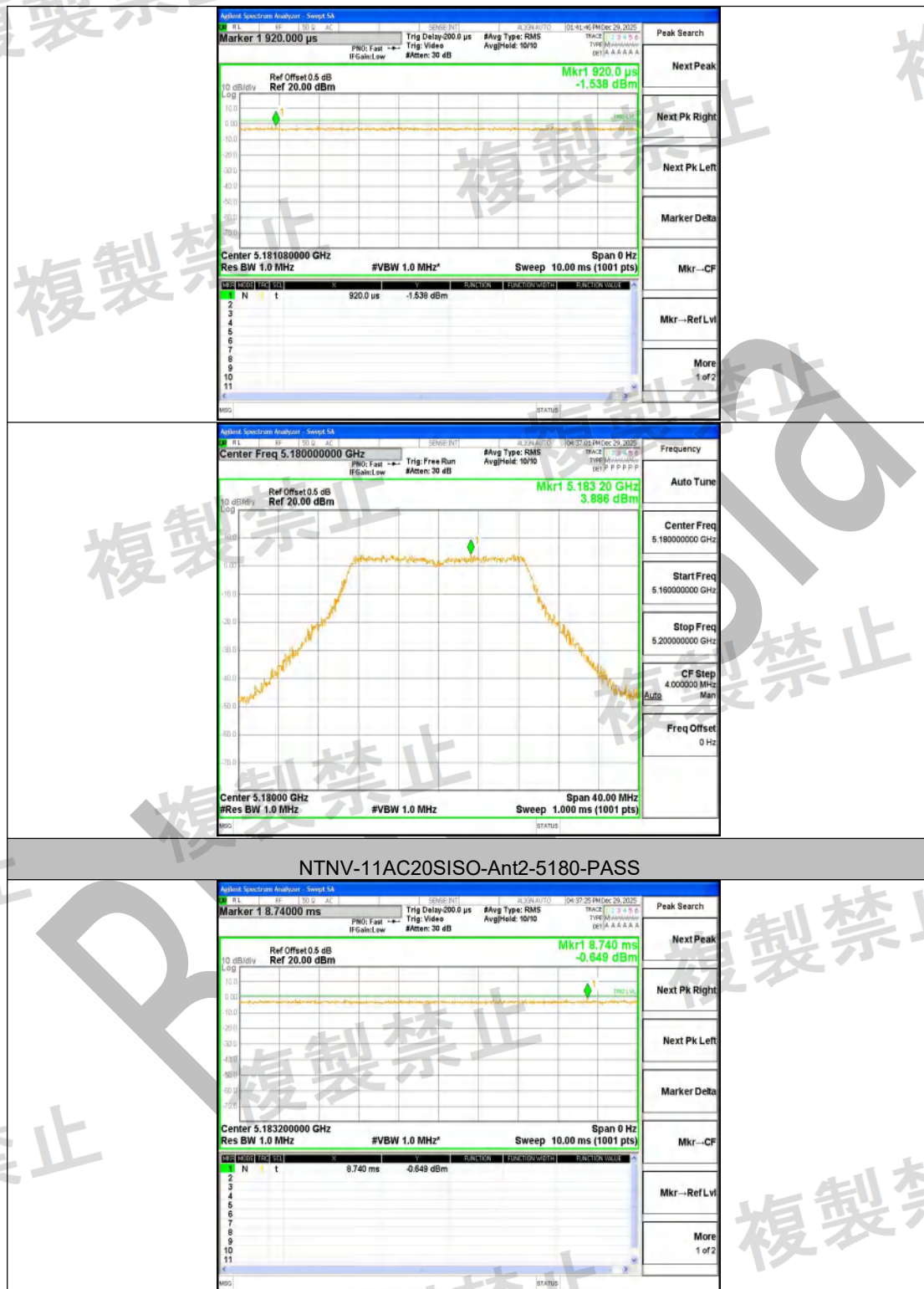
NTNV-11N40SISO-Ant2-5190-PASS



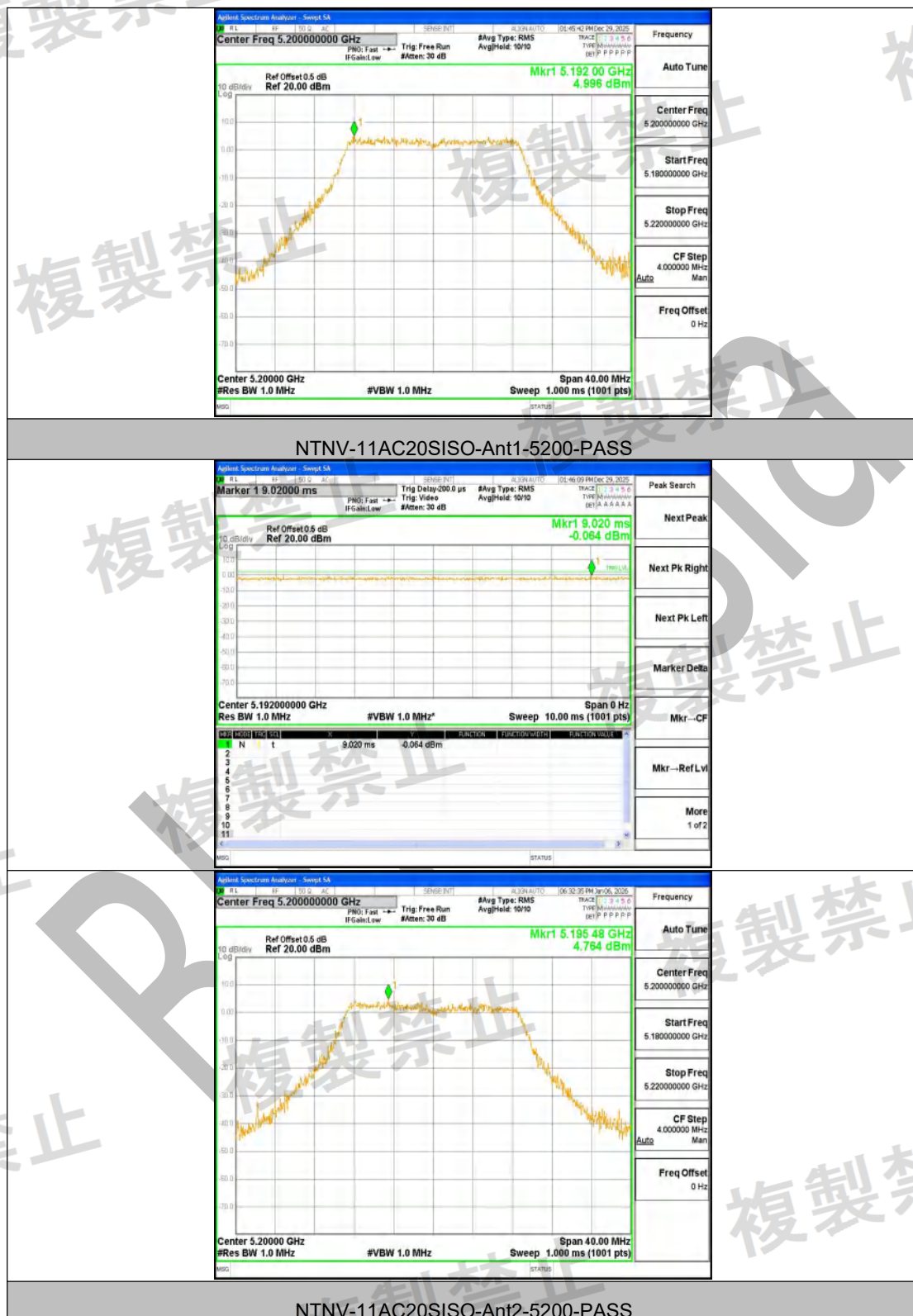


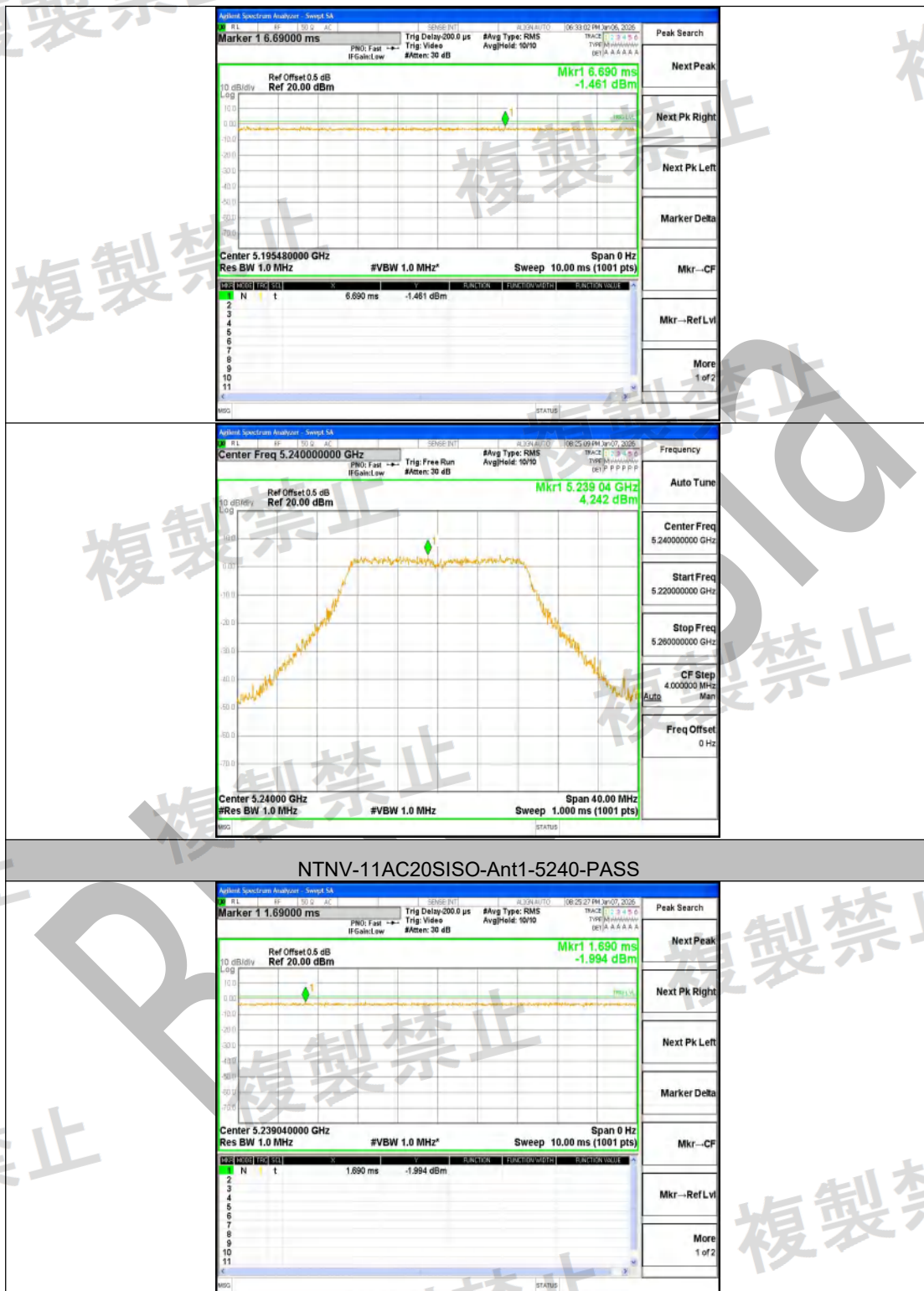
NTNV-11N40SISO-Ant1-5230-PASS

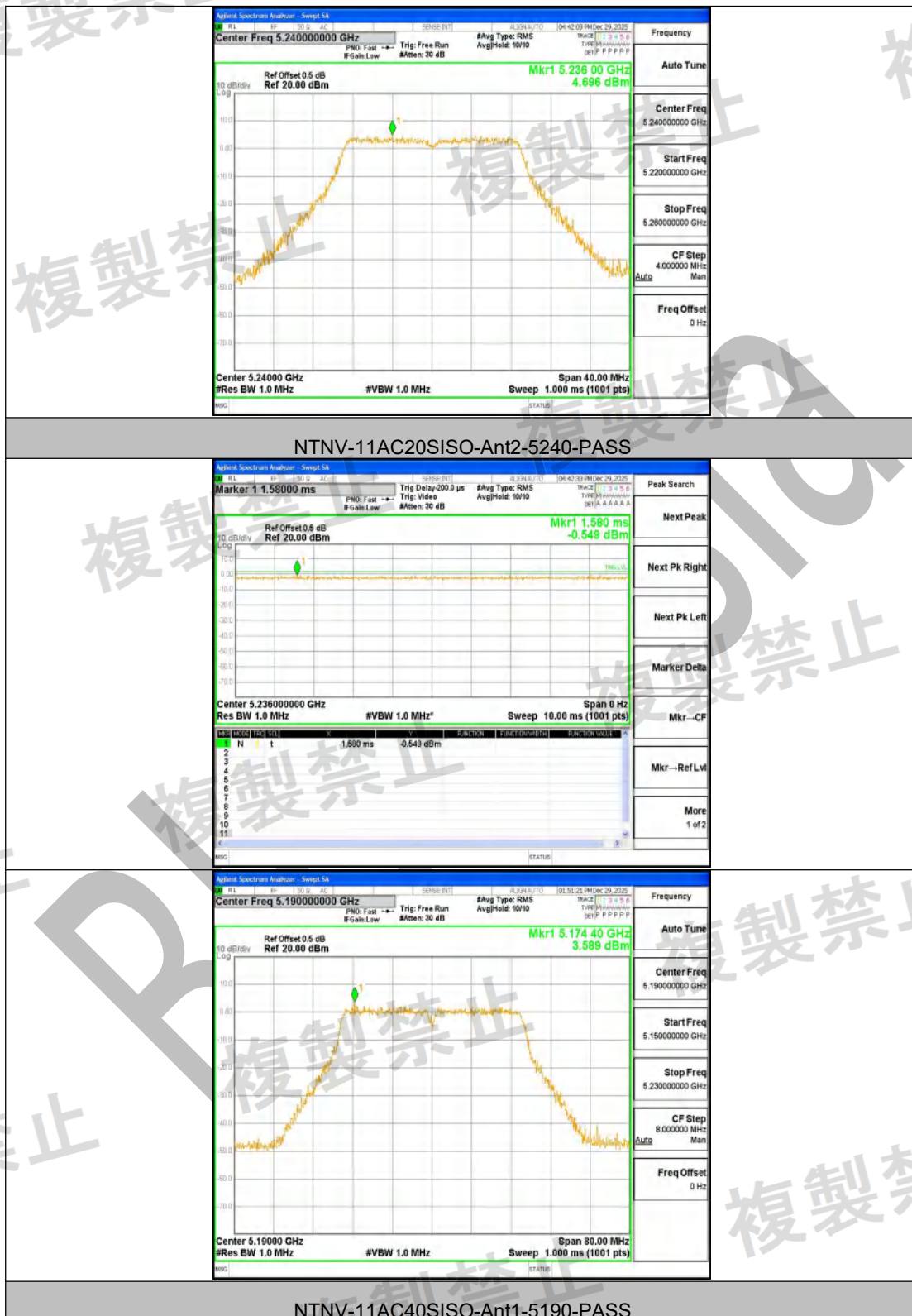


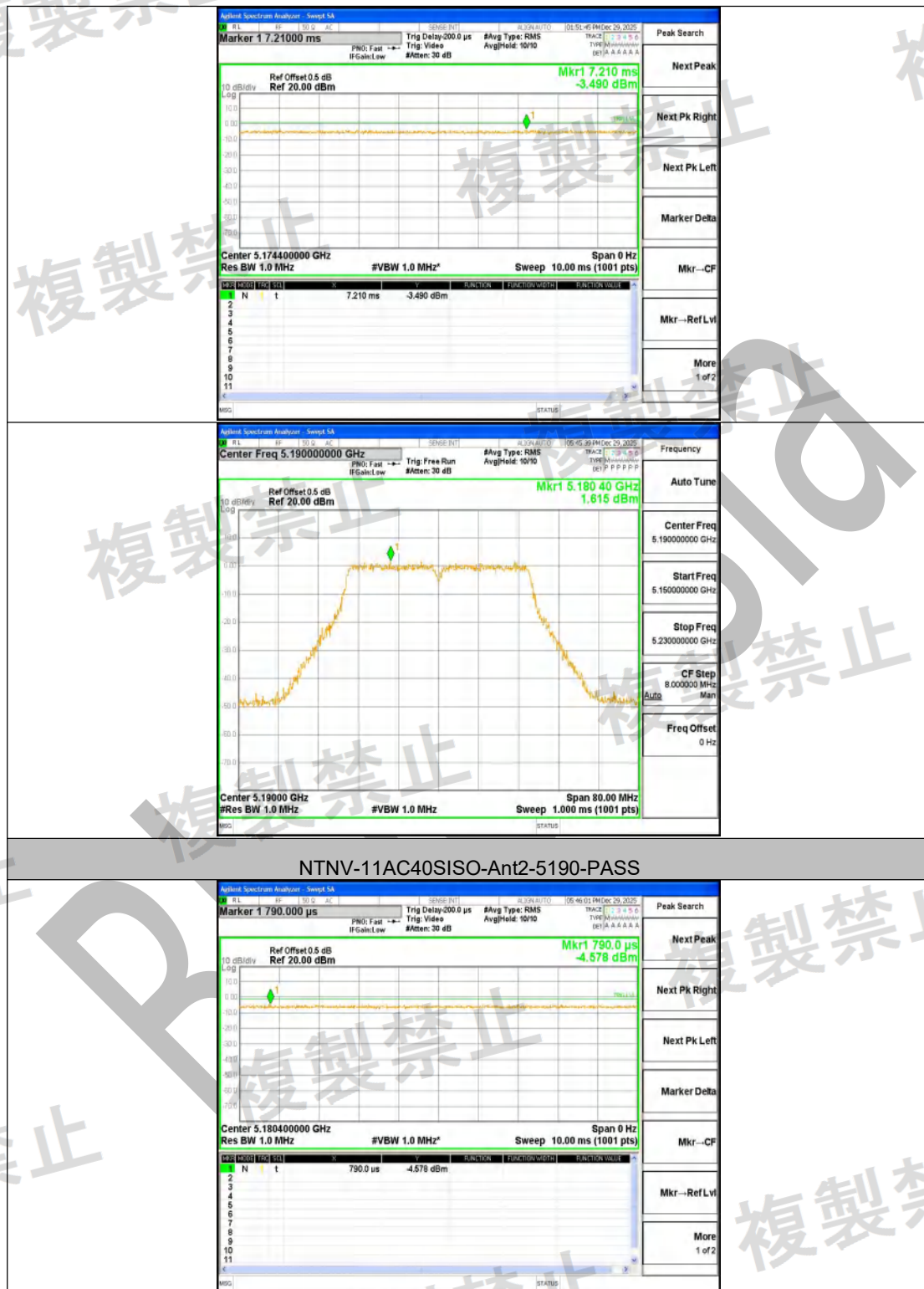


NTNV-11AC20SISO-Ant2-5180-PASS

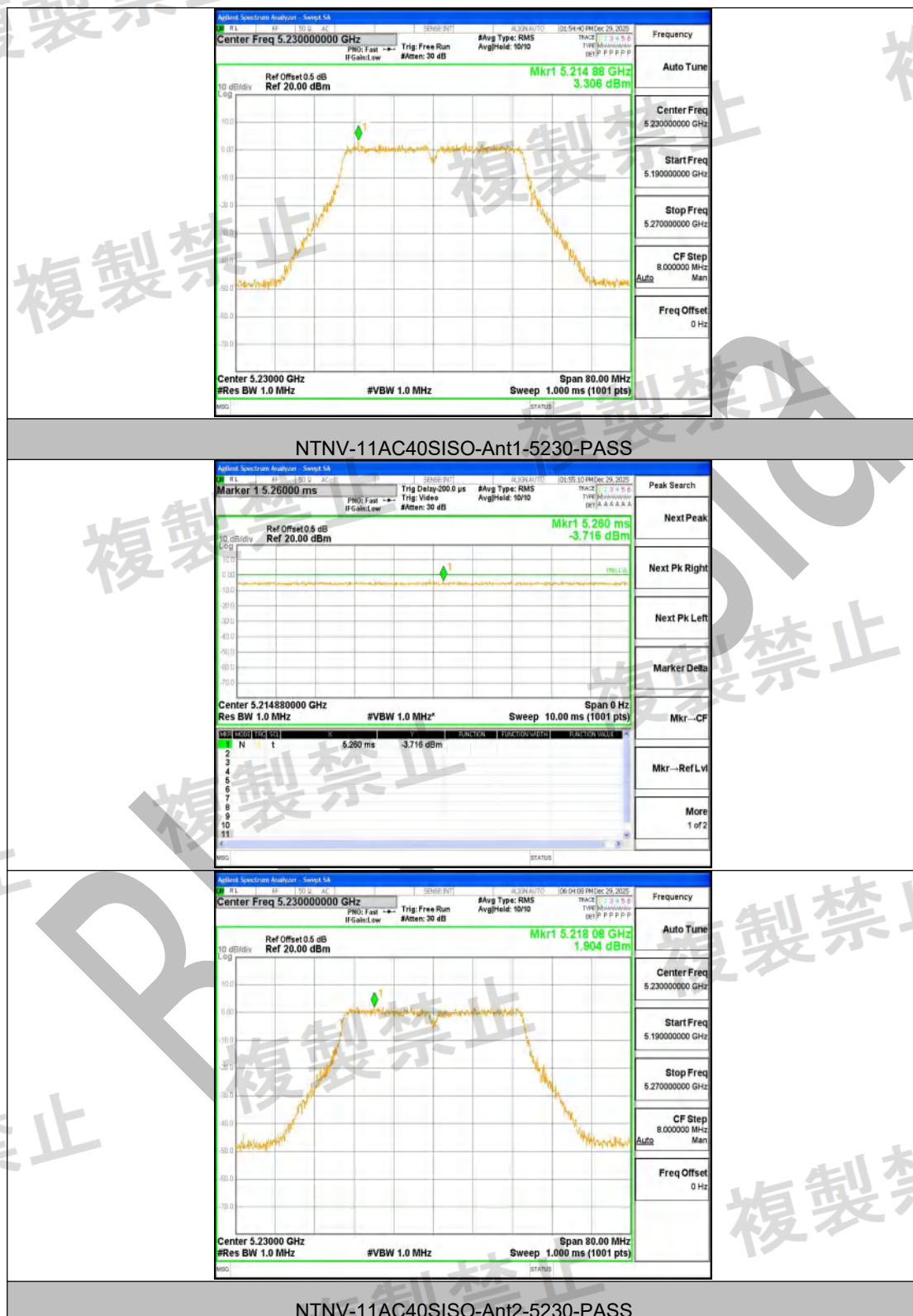


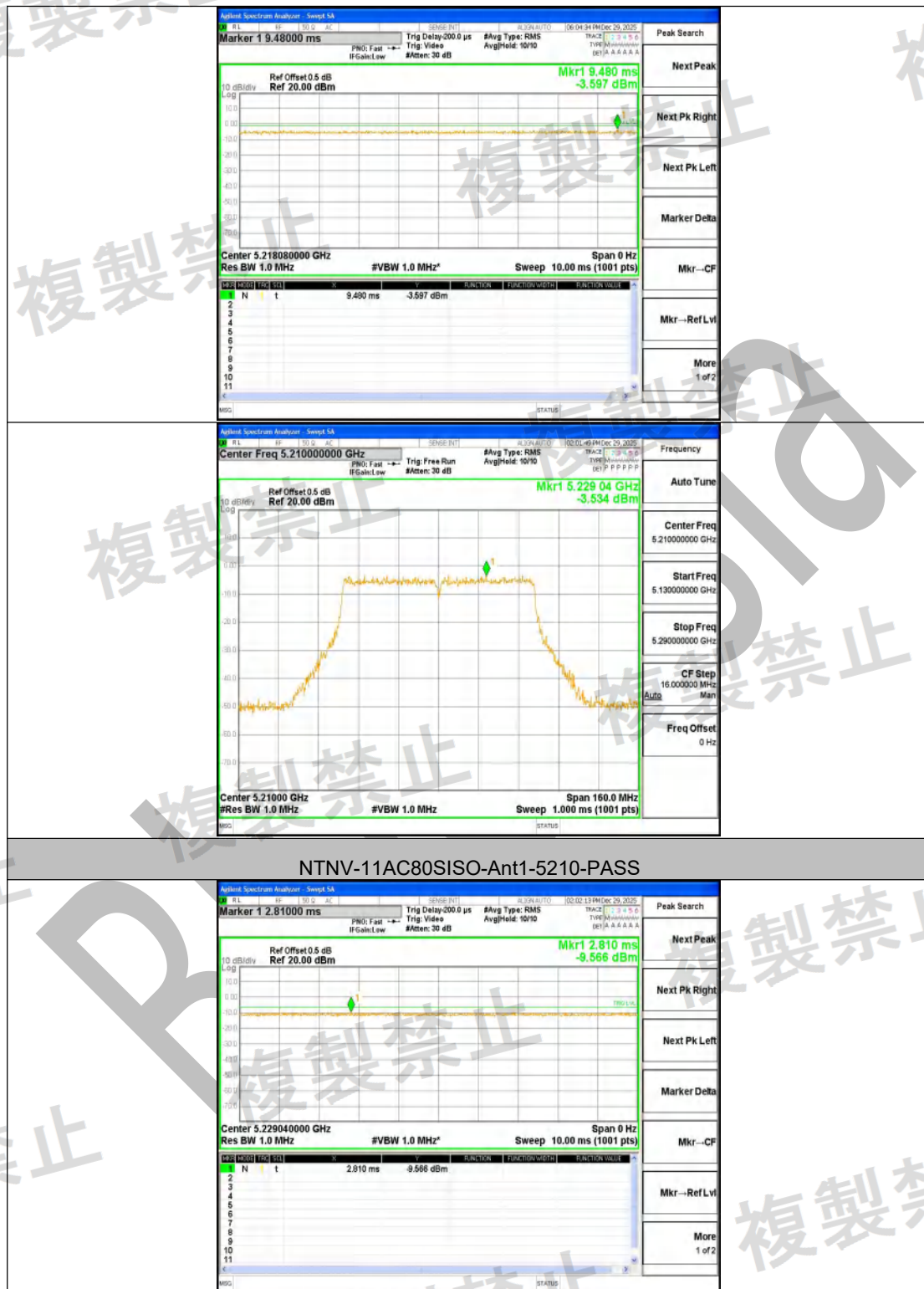




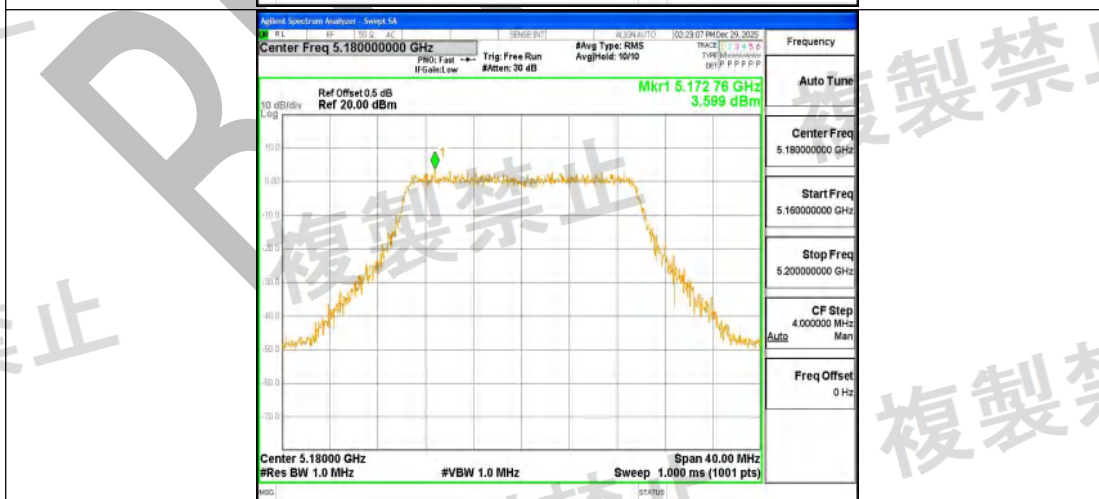
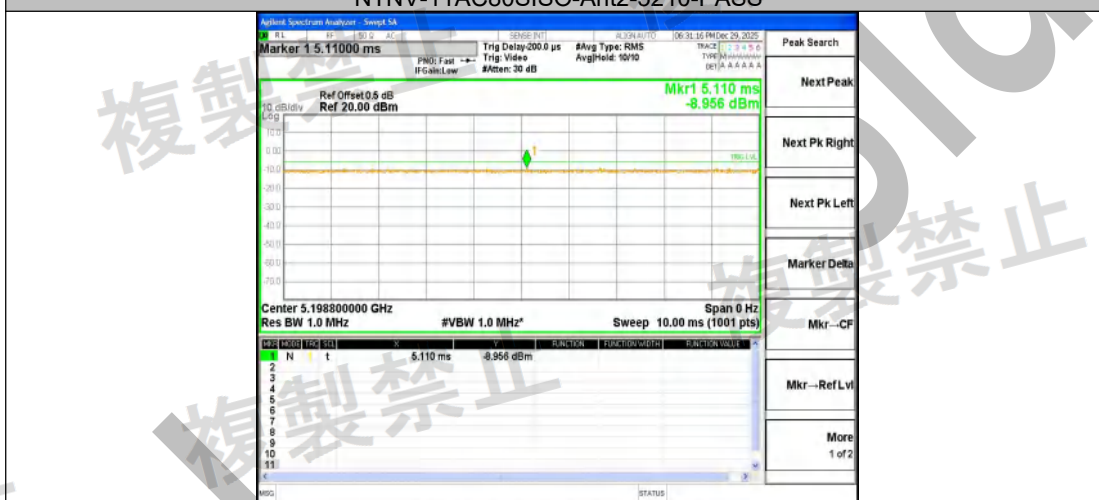
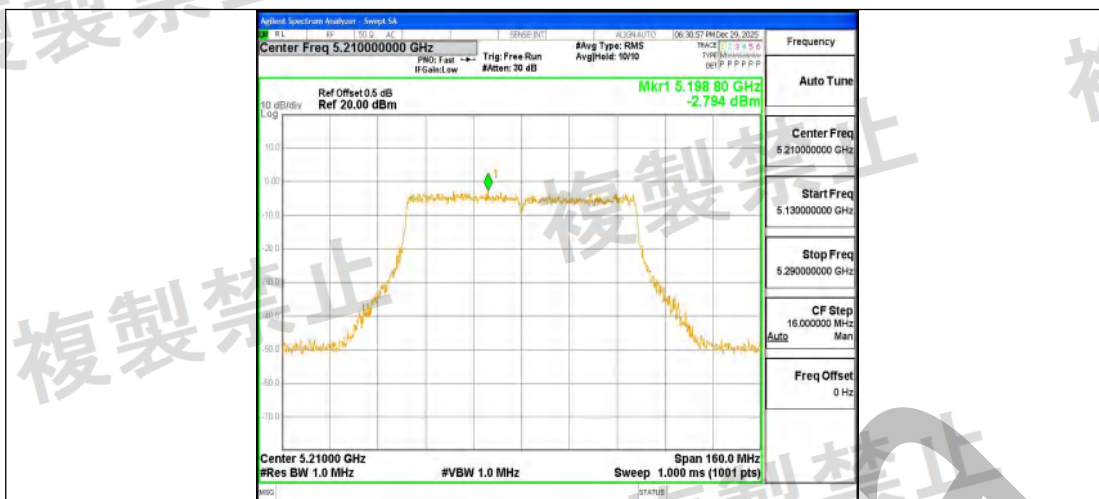


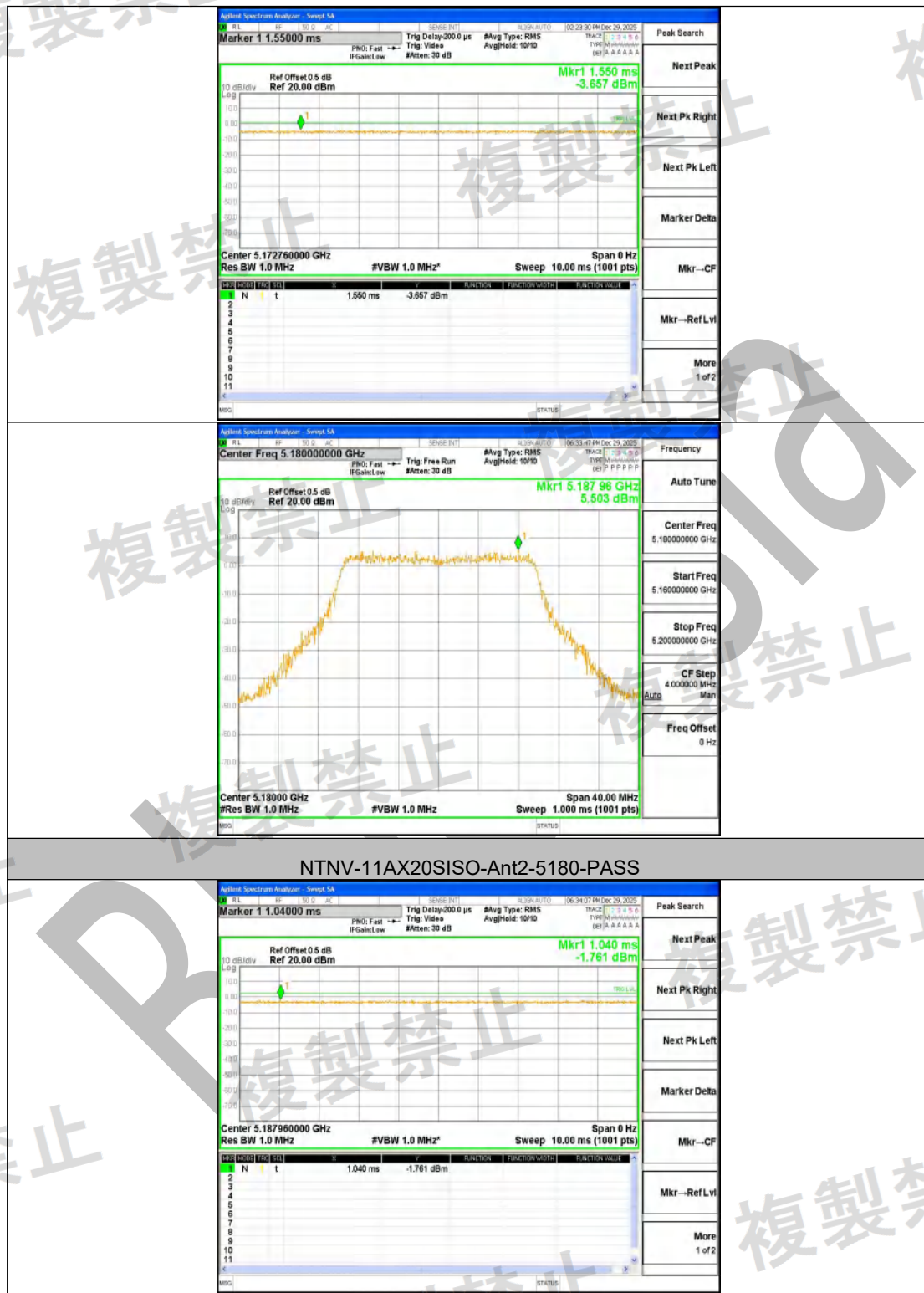
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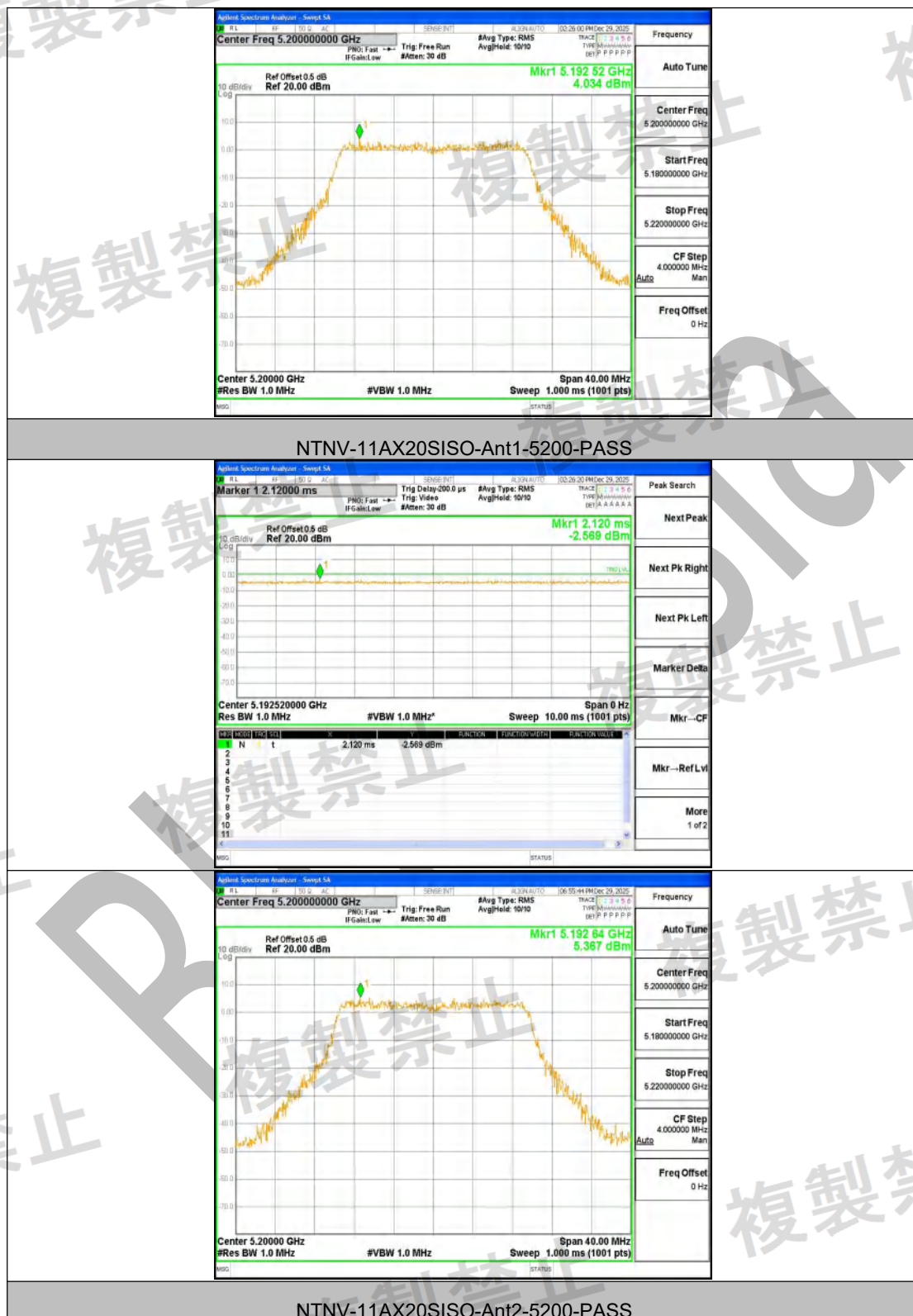


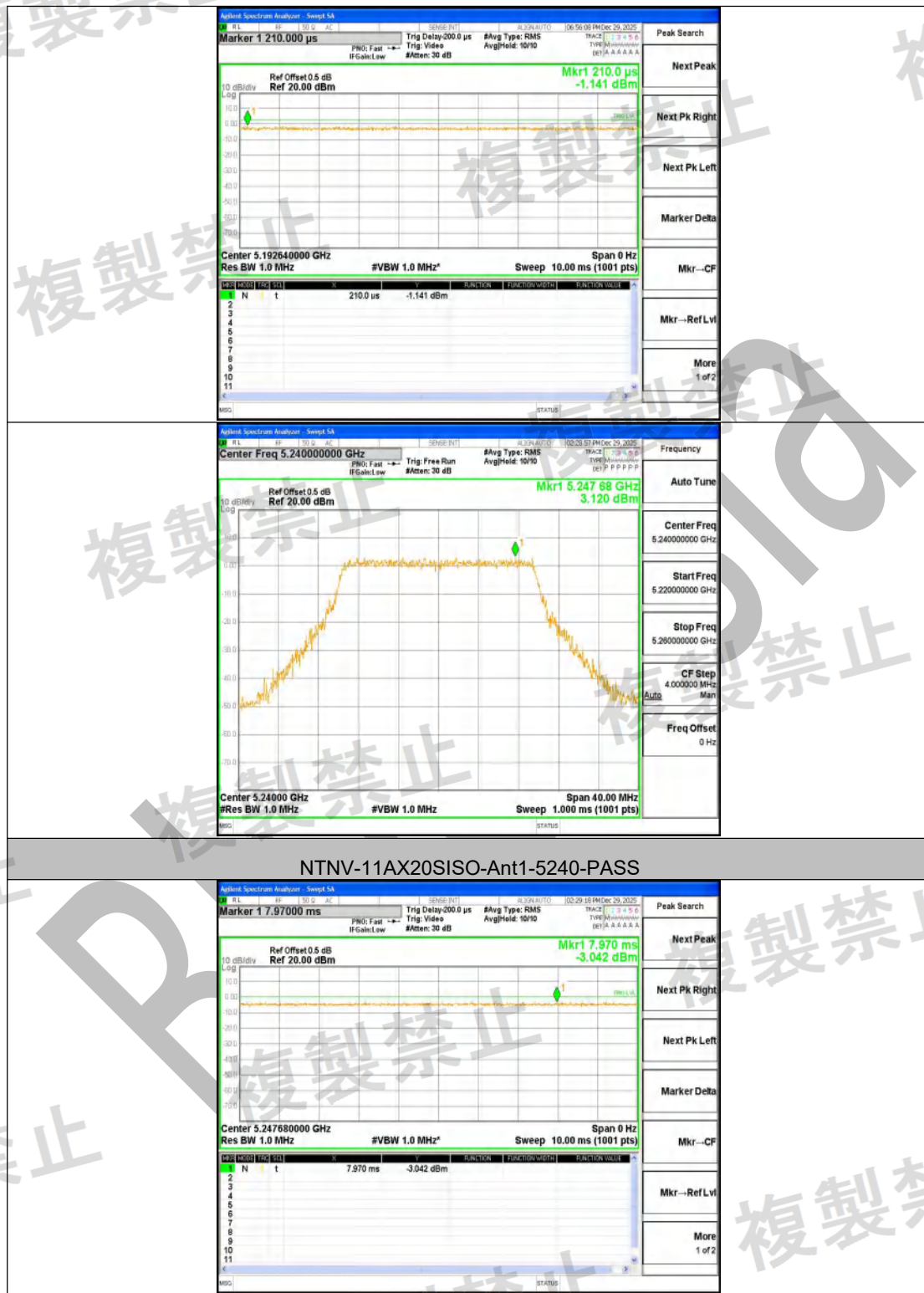


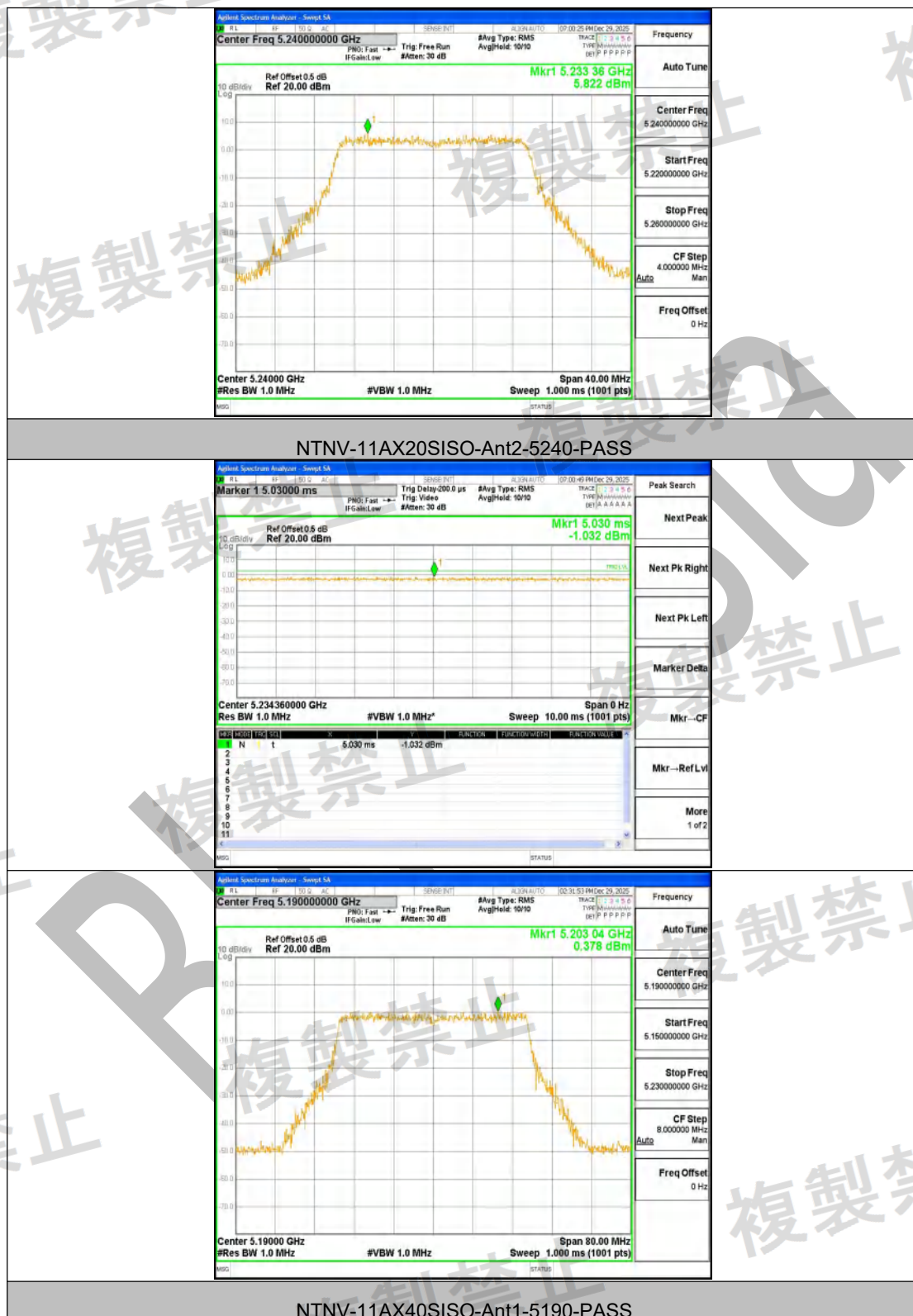
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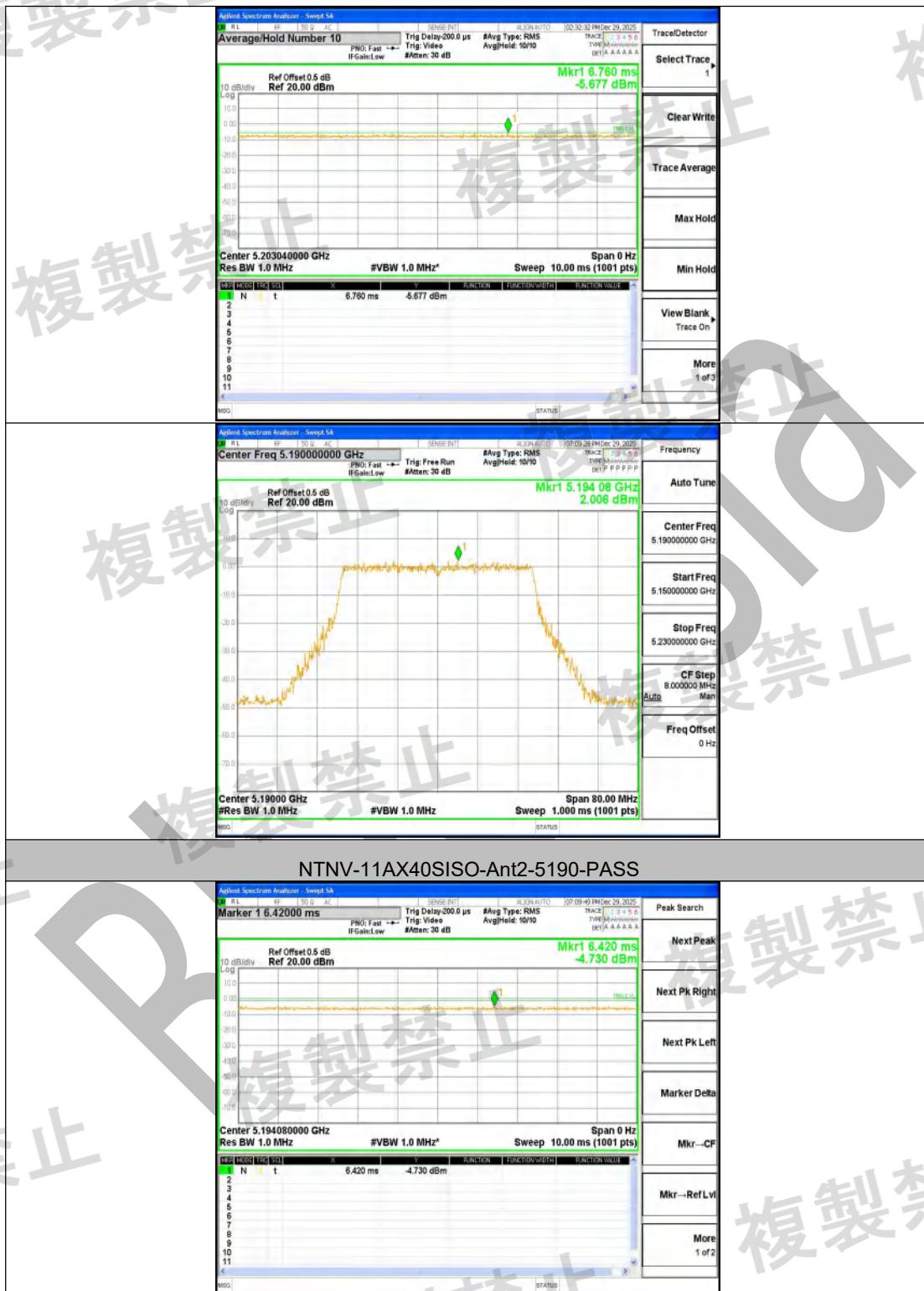




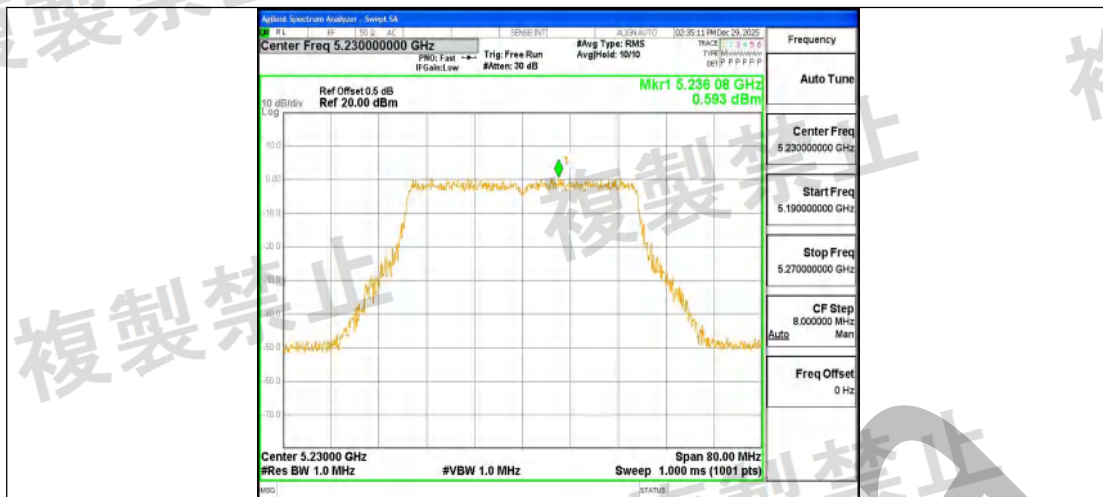




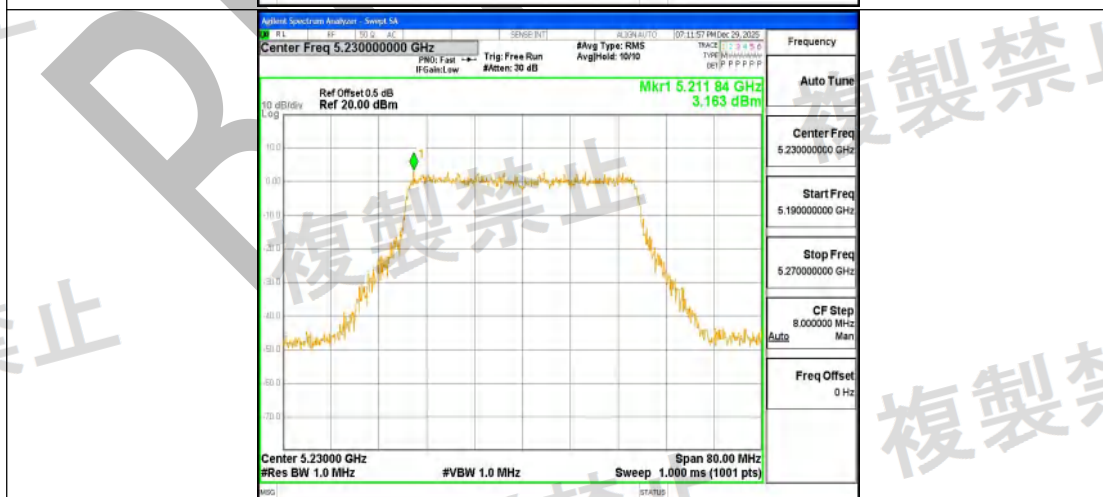




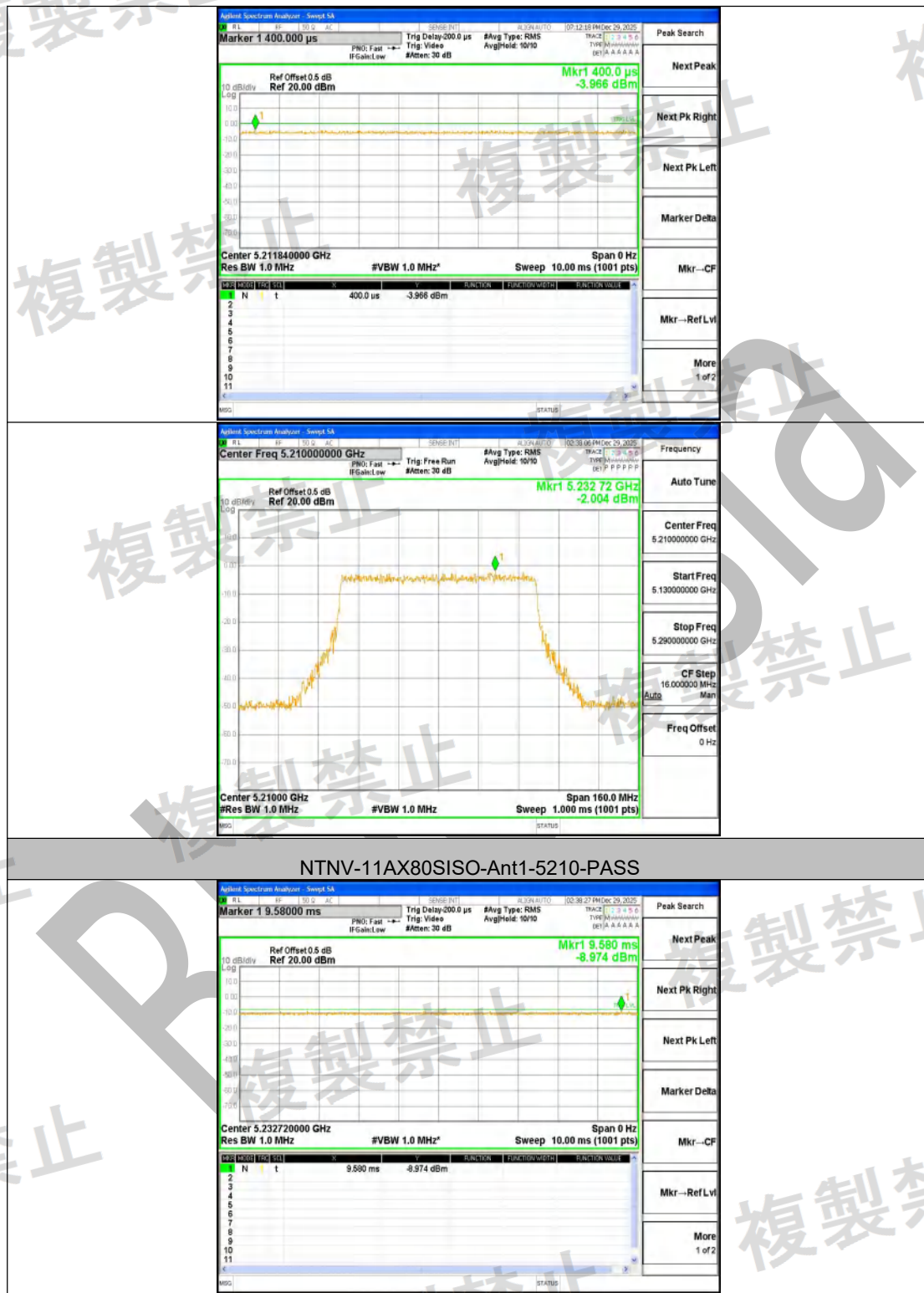
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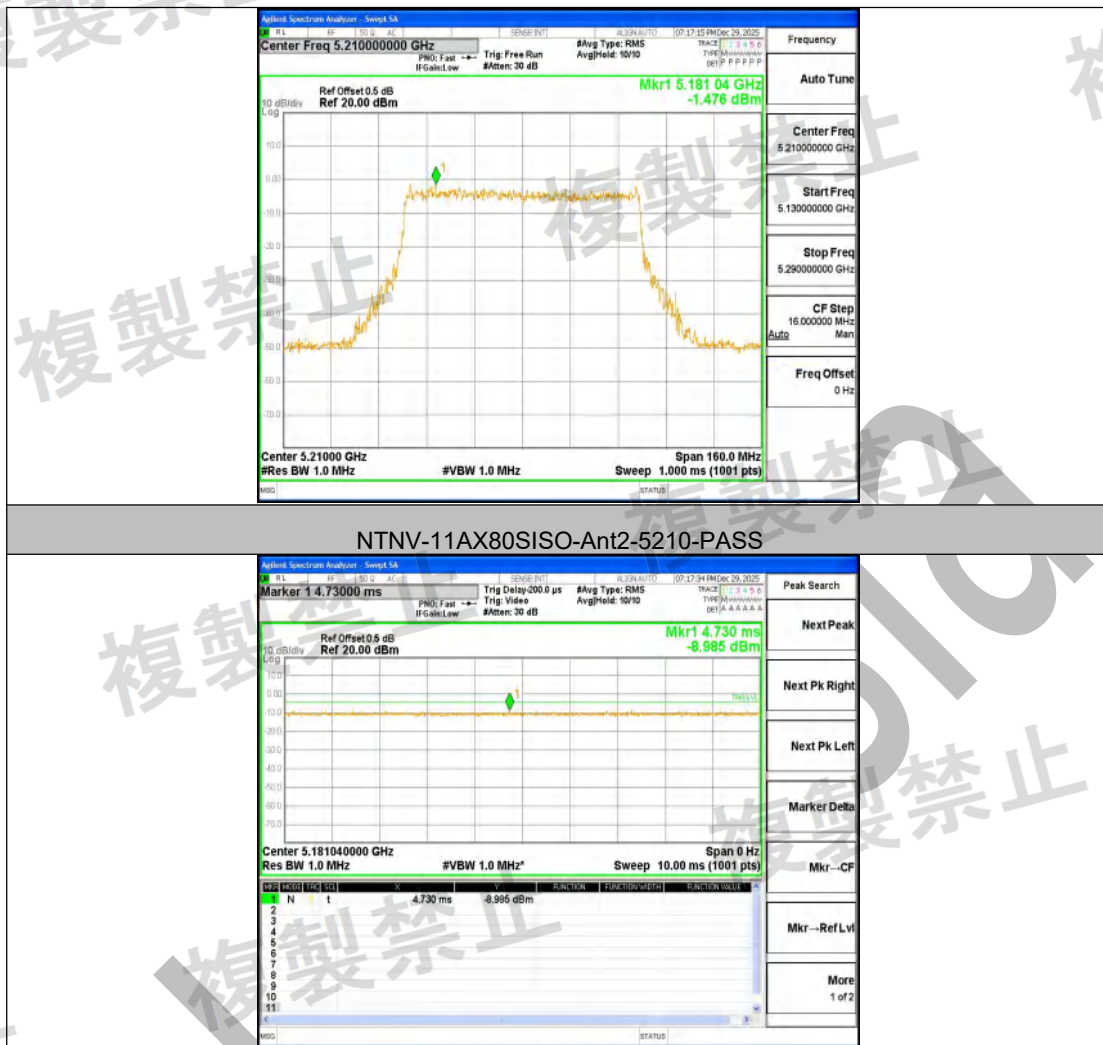


NTNV-11AX40SISO-Ant1-5230-PASS



NTNV-11AX40SISO-Ant2-5230-PASS





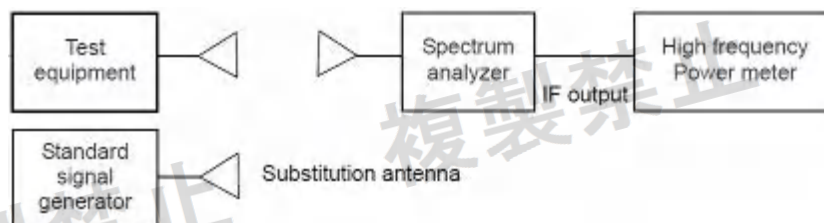
6.8 Equivalent isotropically radiated power (EIRP)

Test Requirement: Item 19-3 of Article 2-1

- (1) 5180, 5200, 5220, 5240MHz: 10mW/MHz or less
- (2) 5190, 5230MHz: 5mW/MHz or less
- (3) 5210MHz: 2.5mW/MHz or less

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.

Test Configuration:



Test Procedure:

1) Test Conditions:

- (1) Measure the equivalent noise bandwidth in 1 MHz of resolution bandwidth of spectrum analyzer, correct the bandwidth in 1MHz equivalent bandwidth, and then read the indicated value.
- (2) Connect high frequency power meter to IF output of the spectrum analyzer. Adjust IF gain of the spectrum analyzer beforehand in order to optimize level to the high frequency power meter.
- (3) Set up the spectrum analyzer searching the frequency that gives maximum antenna power per 1MHz is as follows:
 - Center frequency: test frequency
 - Sweep frequency band: Approximately 2 times of occupied bandwidth
 - Resolution bandwidth: 1 MHz
 - Video bandwidth: Approximately same as the resolution bandwidth
 - Y-axis scale: 10dB/Div
 - Sweep time: minimum time that guarantees the accuracy of the measurement.
 - (Burst wave: more than 1 burst duration time per one sample)
 - Trigger condition: Free run
 - Sweep mode: Continuous sweep
 - Display mode: Max hold
 - Detective mode: Positive peak
- (4) Set up the spectrum analyzer to measure antenna power per 1MHz at searched frequency is as follows.
 - Center frequency: Frequency that gives maximum electric power (searched frequency)
 - Sweep frequency band: 0 MHz
 - Resolution bandwidth: 1 MHz

2) EUT conditions:

- (1) Set the test frequency, continuous emitting or periodic(constant cycle and constant burst length) burst emitting status.
 - (2) Set test spread code to the device that uses spread code and modulate it by standard code test signal.
 - (3) In OFDM, set it as burst transmission. Adjust it as maximum time ratio of least subcarrier number existence at normal operating condition. However, if it is not possible, constant cycle and constant burst length wave can be used or continuous emitting mode is permitted.
- 3) Measuring operation
- A) Set the height and direction of test equipment and measurement antenna approximately facing each other.
 - B) Set the spectrum analyzer according to (3) of 2) and receive.
 - C) Adjust at the maximum received power point, turning the test equipment.
 - D) Repeat the sweep and measure the frequency that the power is max by marker. In this case, find the frequency at maximum power by narrowing the frequency sweep width sequentially.
 - E) Change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the antenna of test equipment, and search the location that the power is maximum by adjusting the direction of measurement antenna. Set the indicator of spectrum analyzer at this point as "E".
 - F) Remove the test equipment from the turntable, set the opening of substitution antenna at the same location as the opening of the test equipment, and receive by outputting radio wave of the same frequency from the standard signal generator for substitution.
 - G) Adjust at the maximum power point, turning the substitution antenna. Set the spectrum analyzer according to (4) of 2)
 - H) Change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the substitution antenna, and adjust the direction of measurement antenna to the location that the received power is maximum.
 - I) Adjust output of standard signal generator and record the power P_s that is equal to "E". Or record P_s by counting backward from the difference with "E" as the close value to "E" (within $\pm 1\text{dB}$).
 - J) Antenna power before correction is derived from the following calculating formula:
$$PO = PS + GS - GT - LF$$

PS: Output of standard signal generator (dBm)
GS: Absolute gain of substitution antenna (dBi)
GT: Antenna absolute gain of test equipment (dBi)
LF; Loss of electric supply line between standard signal generator and substitution antenna (dB)
 - K) Antenna power is as follows,
 - a. Continuous wave: Correct the result of J) by (1) of 2), and derive the average power per 1MHz.
 - b. Burst wave: using corrected value like continuous wave and transmission time ratio, mean power of burst is calculated by next formula.
mean power of burst = Corrected value of J) by (1) of 2) / transmission time ratio
transmission time ratio = burst transmission time / burst repetition time
 - L) In OFDM, if some subcarriers exist, measure antenna power respectively, maximum measured value shall be regarded as the measurement result.

EIRP							
TestCondition	TestMode	Antenna	Frequency(MHz)	Result (mW/MHz)	EIRP (mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11A	Ant1	5180	0.7464	2.148	≤ 10	PASS
		Ant2	5180	0.7112	2.046	≤ 10	PASS
		Ant1	5200	0.6138	1.112	≤ 10	PASS
		Ant2	5200	0.7998	1.449	≤ 10	PASS
		Ant1	5240	0.7328	1.327	≤ 10	PASS
		Ant2	5240	0.8414	1.524	≤ 10	PASS
	11N20MIMO	Ant1+	5180	1.5087	4.341	≤ 10	PASS
			5200	1.6573	4.769	≤ 10	PASS
		Ant 2	5240	1.3543	3.897	≤ 10	PASS
	11N40MIMO	Ant1+	5190	0.6992	2.012	≤ 5	PASS
		Ant 2	5230	0.7745	2.229	≤ 5	PASS
	11AC20MIMO	Ant1+	5180	1.5625	4.495	≤ 10	PASS
			5200	1.7008	4.894	≤ 10	PASS
		Ant 2	5240	1.5134	4.355	≤ 10	PASS
	11AC40MIMO	Ant1+	5190	0.7960	2.290	≤ 5	PASS
		Ant 2	5230	0.8611	2.478	≤ 5	PASS
	11AC80MIMO	Ant1+	5210	0.2375	0.684	≤ 2.5	PASS
	11AX20MIMO	Ant1+	5180	1.0973	3.157	≤ 10	PASS
			5200	1.3225	3.805	≤ 10	PASS
		Ant 2	5240	1.2855	3.699	≤ 10	PASS
	11AX40MIMO	Ant1+	5190	0.6069	1.746	≤ 5	PASS
		Ant 2	5230	0.6321	1.819	≤ 5	PASS
	11AX80MIMO	Ant1+	5210	0.2530	0.728	≤ 2.5	PASS

Remark: All transmit signals are completely uncorrelated with each other,
Directional gain= $G_{ANT}=4.59\text{dBi}$,
So MIMO EIRP= MIMO antenna power + Directional gain.

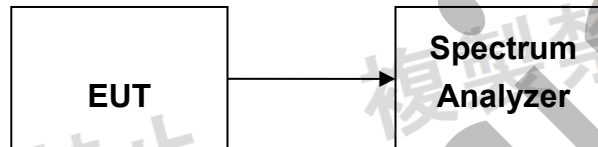
6.9 Adjacent Channel Power Tolerance

Test Requirement: Item 19-3 of Article 2 Paragraph 1

OBW $\leq$ 18MHz Fc $\pm$ 20MHz $\pm$ 9MHz BW : -25dBc	18MHz < OBW $\leq$ 20MHz Fc $\pm$ 20MHz $\pm$ 10MHz BW : -25dBc	Fc $\pm$ 40MHz $\pm$ 20MHz BW : -25dBc	
OBW $\leq$ 18MHz Fc $\pm$ 40MHz $\pm$ 9MHz BW : -40dBc	18MHz < OBW $\leq$ 20MHz Fc $\pm$ 40MHz $\pm$ 10MHz BW : -40dBc	Fc $\pm$ 80MHz $\pm$ 20MHz BW : -40dBc	Fc $\pm$ 80MHz $\pm$ 40MHz BW : -25dBc

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 channels were selected for the final test as listed below.

Test Configuration:



Test Procedure:

- Test Conditions:
Power meter or Spectrum Analyzer is used for measurement.
- EUT conditions:
Modulation/Spread
For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
- Spectrum Analyzer conditions:
Frequency: Test Frequency
RBW 1 MHz, VBW 3MHz
Span 120MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20);
210 MHz for 802.11 n(HT40)/ac(VHT40)/ax(HE40); 410 MHz for 802.11 ac(VHT80)/ax(HE80)
Tx bandwidth 18MHz
For 802.11 a/n(HT20)/ac(VHT20)/ax(HE20):
Adjacent channel bandwidth 20MHz, Channel spacing 20MHz
Alternate channel bandwidth 20MHz, Channel spacing 40MHz
For 802.11 n(HT40)/ac(VHT40)/ax(HE40):
Adjacent channel bandwidth 40MHz, Channel spacing 40MHz
Alternate channel bandwidth 40MHz, Channel spacing 80MHz
For 802.11 ac(VHT80)/ax(HE80):
Adjacent channel bandwidth 80MHz, Channel spacing 80MHz
Alternate channel bandwidth 80MHz, Channel spacing 160MHz
Sweep Time Auto
detector mode Positive peak
Indication mode Max hold

6.9.1 Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Offset [MHz]	Result [dBc]	Limit [dBc]	Verdict
NTNV	11A	Ant1	5180	-40	-54.38	≤-40	PASS
NTNV	11A	Ant2	5180	-40	-53.62	≤-40	PASS
NTNV	11A	Ant1	5180	-20	-33.09	≤-25	PASS
NTNV	11A	Ant2	5180	-20	-32.98	≤-25	PASS
NTNV	11A	Ant1	5180	+20	-33.75	≤-25	PASS
NTNV	11A	Ant2	5180	+20	-33.53	≤-25	PASS
NTNV	11A	Ant1	5180	+40	-55.07	≤-40	PASS
NTNV	11A	Ant2	5180	+40	-53.72	≤-40	PASS
NTNV	11A	Ant1	5200	-40	-54.71	≤-40	PASS
NTNV	11A	Ant2	5200	-40	-53.96	≤-40	PASS
NTNV	11A	Ant1	5200	-20	-32.93	≤-25	PASS
NTNV	11A	Ant2	5200	-20	-33.17	≤-25	PASS
NTNV	11A	Ant1	5200	+20	-33.15	≤-25	PASS
NTNV	11A	Ant2	5200	+20	-33.66	≤-25	PASS
NTNV	11A	Ant1	5200	+40	-55.13	≤-40	PASS
NTNV	11A	Ant2	5200	+40	-54.00	≤-40	PASS
NTNV	11A	Ant1	5240	-40	-53.83	≤-40	PASS
NTNV	11A	Ant2	5240	-40	-53.99	≤-40	PASS
NTNV	11A	Ant1	5240	-20	-33.12	≤-25	PASS
NTNV	11A	Ant2	5240	-20	-33.00	≤-25	PASS
NTNV	11A	Ant1	5240	+20	-33.60	≤-25	PASS
NTNV	11A	Ant2	5240	+20	-33.17	≤-25	PASS
NTNV	11A	Ant1	5240	+40	-54.69	≤-40	PASS
NTNV	11A	Ant2	5240	+40	-54.46	≤-40	PASS
NTNV	11N20SI SO	Ant1	5180	-40	-54.32	≤-40	PASS
NTNV	11N20SI SO	Ant2	5180	-40	-53.44	≤-40	PASS
NTNV	11N20SI SO	Ant1	5180	-20	-31.88	≤-25	PASS
NTNV	11N20SI SO	Ant2	5180	-20	-31.87	≤-25	PASS

NTNV	11N20SI SO	Ant1	5180	+20	-31.78	≤-25	PASS
NTNV	11N20SI SO	Ant2	5180	+20	-31.59	≤-25	PASS
NTNV	11N20SI SO	Ant1	5180	+40	-54.98	≤-40	PASS
NTNV	11N20SI SO	Ant2	5180	+40	-53.53	≤-40	PASS
NTNV	11N20SI SO	Ant1	5200	-40	-54.68	≤-40	PASS
NTNV	11N20SI SO	Ant2	5200	-40	-54.21	≤-40	PASS
NTNV	11N20SI SO	Ant1	5200	-20	-31.25	≤-25	PASS
NTNV	11N20SI SO	Ant2	5200	-20	-31.83	≤-25	PASS
NTNV	11N20SI SO	Ant1	5200	+20	-31.50	≤-25	PASS
NTNV	11N20SI SO	Ant2	5200	+20	-32.01	≤-25	PASS
NTNV	11N20SI SO	Ant1	5200	+40	-55.05	≤-40	PASS
NTNV	11N20SI SO	Ant2	5200	+40	-54.18	≤-40	PASS
NTNV	11N20SI SO	Ant1	5240	-40	-53.62	≤-40	PASS
NTNV	11N20SI SO	Ant2	5240	-40	-53.65	≤-40	PASS
NTNV	11N20SI SO	Ant1	5240	-20	-31.28	≤-25	PASS
NTNV	11N20SI SO	Ant2	5240	-20	-31.52	≤-25	PASS
NTNV	11N20SI SO	Ant1	5240	+20	-32.01	≤-25	PASS
NTNV	11N20SI SO	Ant2	5240	+20	-31.38	≤-25	PASS

NTNV	11N20SI SO	Ant1	5240	+40	-54.41	≤-40	PASS
NTNV	11N20SI SO	Ant2	5240	+40	-54.59	≤-40	PASS
NTNV	11N40SI SO	Ant1	5190	-80	-50.82	≤-40	PASS
NTNV	11N40SI SO	Ant2	5190	-80	-51.16	≤-40	PASS
NTNV	11N40SI SO	Ant1	5190	-40	-33.87	≤-25	PASS
NTNV	11N40SI SO	Ant2	5190	-40	-34.03	≤-25	PASS
NTNV	11N40SI SO	Ant1	5190	+40	-33.35	≤-25	PASS
NTNV	11N40SI SO	Ant2	5190	+40	-34.08	≤-25	PASS
NTNV	11N40SI SO	Ant1	5190	+80	-51.65	≤-40	PASS
NTNV	11N40SI SO	Ant2	5190	+80	-51.39	≤-40	PASS
NTNV	11N40SI SO	Ant1	5230	-80	-50.23	≤-40	PASS
NTNV	11N40SI SO	Ant2	5230	-80	-51.57	≤-40	PASS
NTNV	11N40SI SO	Ant1	5230	-40	-33.62	≤-25	PASS
NTNV	11N40SI SO	Ant2	5230	-40	-33.04	≤-25	PASS
NTNV	11N40SI SO	Ant1	5230	+40	-33.12	≤-25	PASS
NTNV	11N40SI SO	Ant2	5230	+40	-33.01	≤-25	PASS
NTNV	11N40SI SO	Ant1	5230	+80	-51.91	≤-40	PASS
NTNV	11N40SI SO	Ant2	5230	+80	-52.15	≤-40	PASS

NTNV	11AC20S ISO	Ant1	5180	-40	-54.29	≤-40	PASS
NTNV	11AC20S ISO	Ant2	5180	-40	-53.51	≤-40	PASS
NTNV	11AC20S ISO	Ant1	5180	-20	-32.14	≤-25	PASS
NTNV	11AC20S ISO	Ant2	5180	-20	-31.93	≤-25	PASS
NTNV	11AC20S ISO	Ant1	5180	+20	-31.51	≤-25	PASS
NTNV	11AC20S ISO	Ant2	5180	+20	-31.06	≤-25	PASS
NTNV	11AC20S ISO	Ant1	5180	+40	-54.89	≤-40	PASS
NTNV	11AC20S ISO	Ant2	5180	+40	-53.76	≤-40	PASS
NTNV	11AC20S ISO	Ant1	5200	-40	-54.45	≤-40	PASS
NTNV	11AC20S ISO	Ant2	5200	-40	-53.55	≤-40	PASS
NTNV	11AC20S ISO	Ant1	5200	-20	-31.15	≤-25	PASS
NTNV	11AC20S ISO	Ant2	5200	-20	-31.39	≤-25	PASS
NTNV	11AC20S ISO	Ant1	5200	+20	-31.81	≤-25	PASS
NTNV	11AC20S ISO	Ant2	5200	+20	-31.59	≤-25	PASS
NTNV	11AC20S ISO	Ant1	5200	+40	-55.20	≤-40	PASS
NTNV	11AC20S ISO	Ant2	5200	+40	-53.91	≤-40	PASS
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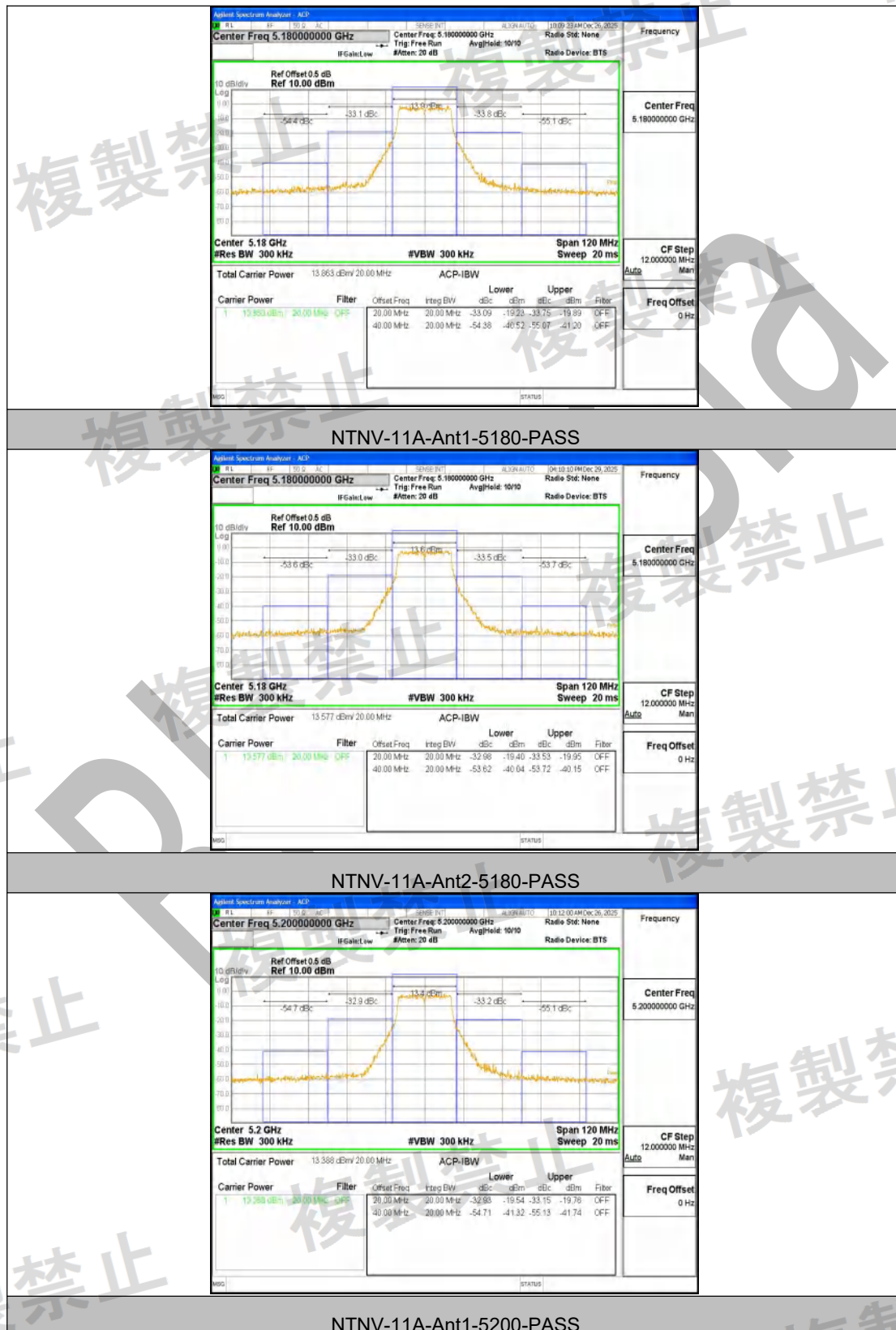
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NTNV	11AC20S ISO	Ant2	5240	+20	-31.78	≤-25	PASS
NTNV	11AC20S ISO	Ant1	5240	+40	-54.79	≤-40	PASS
NTNV	11AC20S ISO	Ant2	5240	+40	-54.63	≤-40	PASS
NTNV	11AC40S ISO	Ant1	5190	-80	-50.84	≤-40	PASS
NTNV	11AC40S ISO	Ant2	5190	-80	-51.20	≤-40	PASS
NTNV	11AC40S ISO	Ant1	5190	-40	-34.07	≤-25	PASS
NTNV	11AC40S ISO	Ant2	5190	-40	-33.50	≤-25	PASS
NTNV	11AC40S ISO	Ant1	5190	+40	-32.96	≤-25	PASS
NTNV	11AC40S ISO	Ant2	5190	+40	-33.92	≤-25	PASS
NTNV	11AC40S ISO	Ant1	5190	+80	-51.74	≤-40	PASS
NTNV	11AC40S ISO	Ant2	5190	+80	-51.30	≤-40	PASS
NTNV	11AC40S ISO	Ant1	5230	-80	-50.52	≤-40	PASS
NTNV	11AC40S ISO	Ant2	5230	-80	-51.28	≤-40	PASS
NTNV	11AC40S ISO	Ant1	5230	-40	-34.20	≤-25	PASS
NTNV	11AC40S ISO	Ant2	5230	-40	-32.72	≤-25	PASS

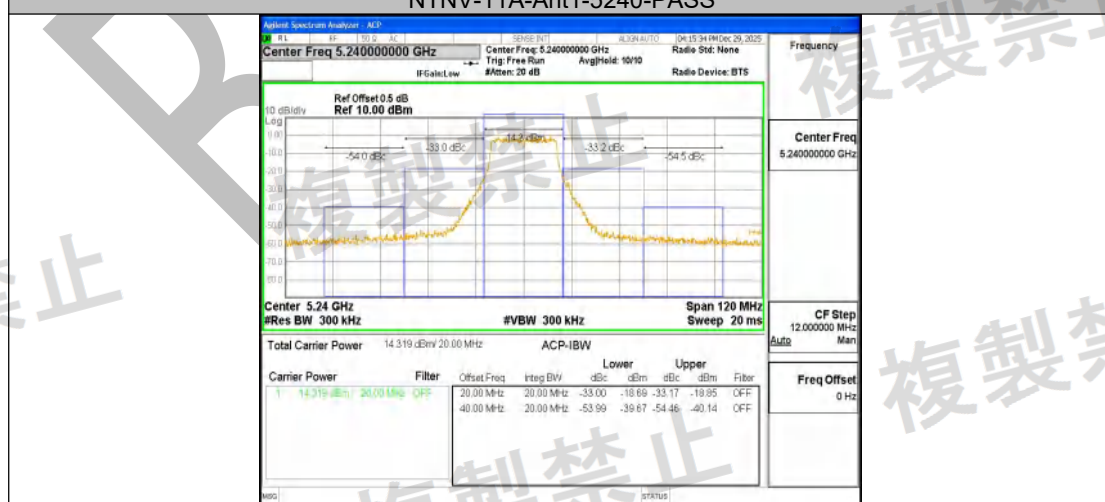
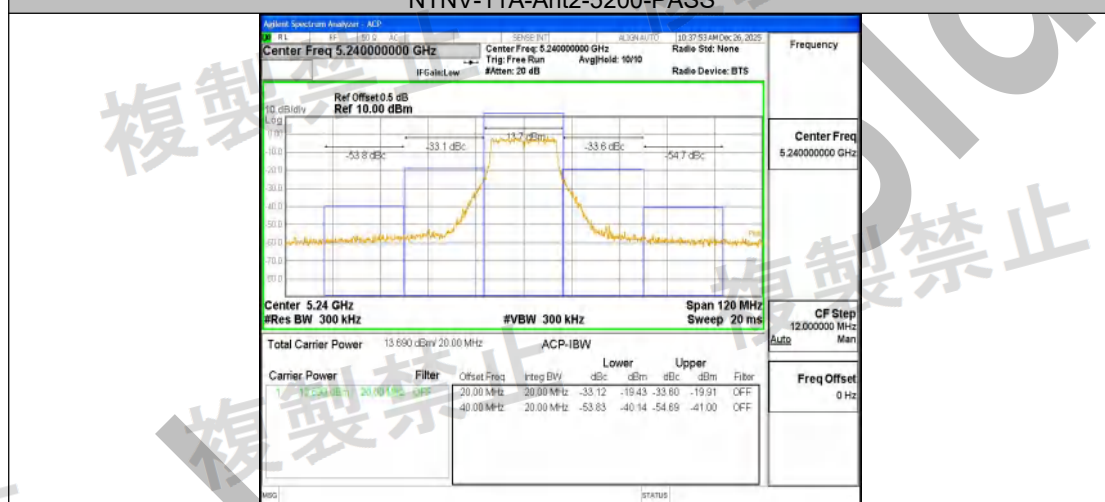
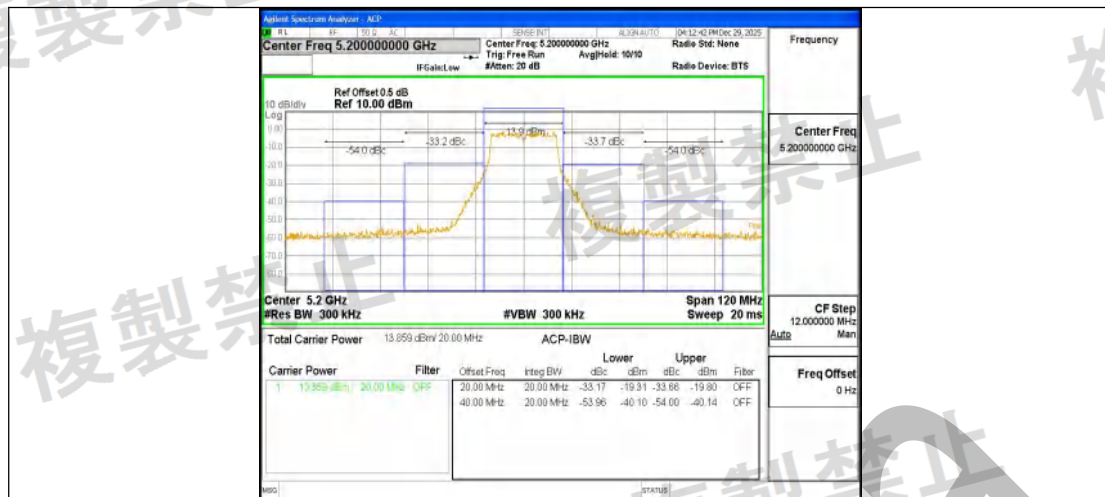
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NTNV	11AC80S ISO	Ant1	5210	+80	-34.33	≤-25	PASS
NTNV	11AC80S ISO	Ant2	5210	+80	-34.15	≤-25	PASS
NTNV	11AX20S ISO	Ant1	5180	-40	-53.51	≤-40	PASS
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NTNV	11AX20S ISO	Ant1	5180	+40	-53.74	≤-40	PASS
NTNV	11AX20S ISO	Ant2	5180	+40	-54.60	≤-40	PASS
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NTNV	11AX20S ISO	Ant2	5200	-40	-54.42	≤-40	PASS

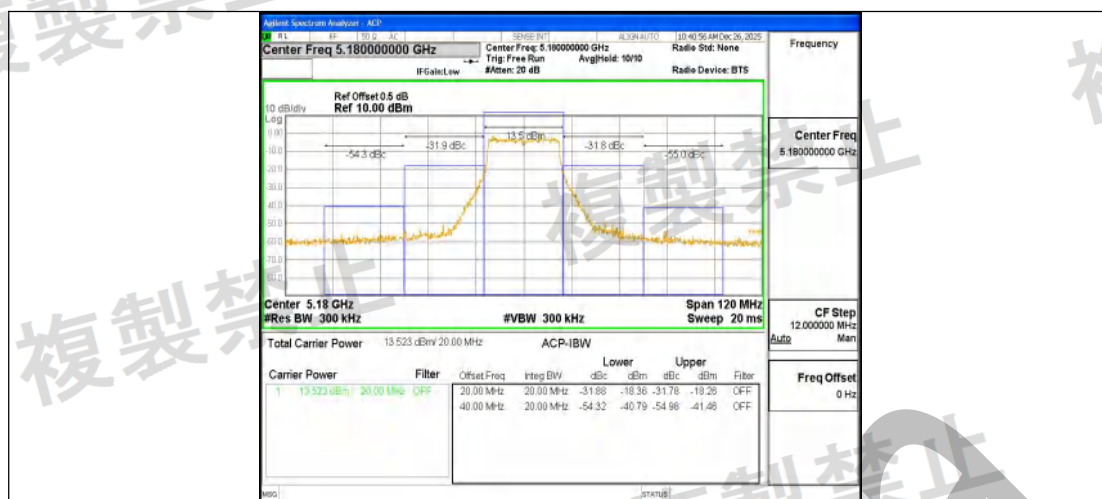
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NTNV	11AX20S ISO	Ant2	5200	+20	-30.76	≤-25	PASS
NTNV	11AX20S ISO	Ant1	5200	+40	-54.04	≤-40	PASS
NTNV	11AX20S ISO	Ant2	5200	+40	-54.45	≤-40	PASS
NTNV	11AX20S ISO	Ant1	5240	-40	-55.56	≤-40	PASS
NTNV	11AX20S ISO	Ant2	5240	-40	-54.17	≤-40	PASS
NTNV	11AX20S ISO	Ant1	5240	-20	-30.62	≤-25	PASS
NTNV	11AX20S ISO	Ant2	5240	-20	-29.67	≤-25	PASS
NTNV	11AX20S ISO	Ant1	5240	+20	-30.95	≤-25	PASS
NTNV	11AX20S ISO	Ant2	5240	+20	-30.98	≤-25	PASS
NTNV	11AX20S ISO	Ant1	5240	+40	-55.99	≤-40	PASS
NTNV	11AX20S ISO	Ant2	5240	+40	-55.22	≤-40	PASS
NTNV	11AX40S ISO	Ant1	5190	-80	-52.71	≤-40	PASS
NTNV	11AX40S ISO	Ant2	5190	-80	-51.88	≤-40	PASS
NTNV	11AX40S ISO	Ant1	5190	-40	-33.51	≤-25	PASS
NTNV	11AX40S ISO	Ant2	5190	-40	-32.93	≤-25	PASS

NTNV	11AX40S ISO	Ant1	5190	+40	-32.99	≤-25	PASS
NTNV	11AX40S ISO	Ant2	5190	+40	-33.94	≤-25	PASS
NTNV	11AX40S ISO	Ant1	5190	+80	-53.38	≤-40	PASS
NTNV	11AX40S ISO	Ant2	5190	+80	-52.05	≤-40	PASS
NTNV	11AX40S ISO	Ant1	5230	-80	-52.45	≤-40	PASS
NTNV	11AX40S ISO	Ant2	5230	-80	-51.94	≤-40	PASS
NTNV	11AX40S ISO	Ant1	5230	-40	-33.53	≤-25	PASS
NTNV	11AX40S ISO	Ant2	5230	-40	-32.48	≤-25	PASS
NTNV	11AX40S ISO	Ant1	5230	+40	-33.90	≤-25	PASS
NTNV	11AX40S ISO	Ant2	5230	+40	-33.76	≤-25	PASS
NTNV	11AX40S ISO	Ant1	5230	+80	-53.37	≤-40	PASS
NTNV	11AX40S ISO	Ant2	5230	+80	-52.83	≤-40	PASS
NTNV	11AX80S ISO	Ant1	5210	-80	-35.33	≤-25	PASS
NTNV	11AX80S ISO	Ant2	5210	-80	-34.79	≤-25	PASS
NTNV	11AX80S ISO	Ant1	5210	+80	-34.84	≤-25	PASS
NTNV	11AX80S ISO	Ant2	5210	+80	-34.82	≤-25	PASS

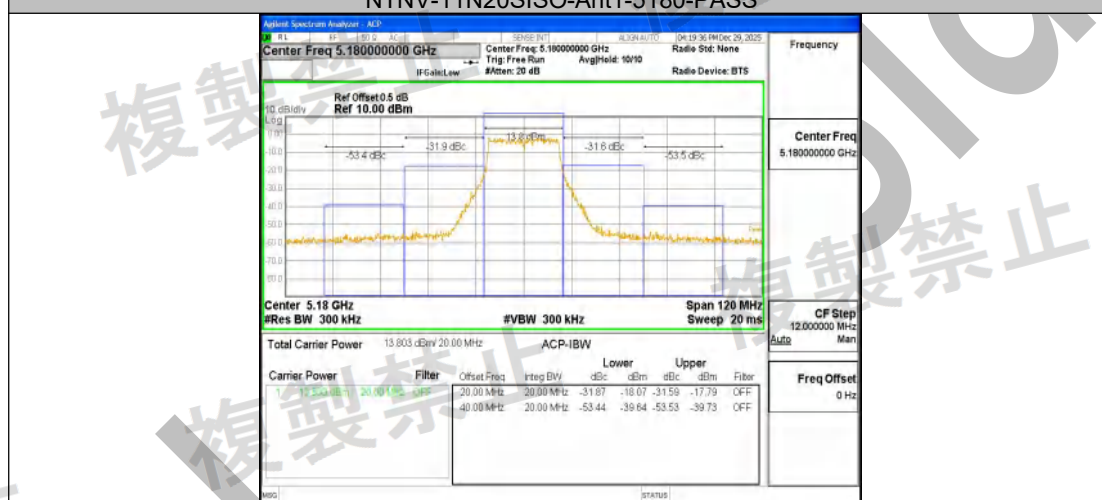
6.9.2 Test Graphs



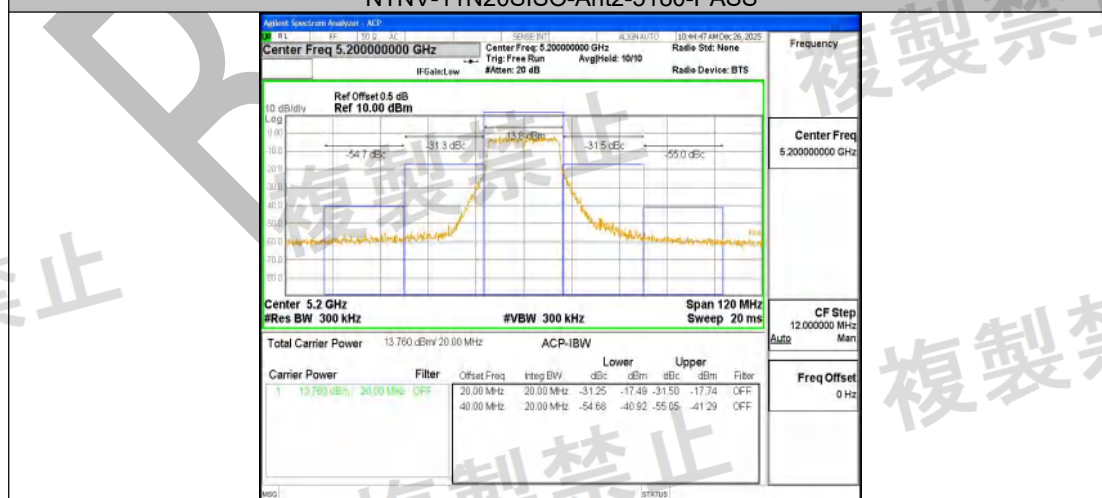




NTNV-11N20SISO-Ant1-5180-PASS



NTNV-11N20SISO-Ant2-5180-PASS



NTNV-11N20SISO-Ant1-5200-PASS