

TEST REPORT

Product Name : Tablet PC
Model Number : Endeavor TN52, Endeavor TN52E,
Endeavor JT52, Endeavor DN52

Prepared for : Micro-Star Int'l Co., Ltd.
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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2506190320W00203R	/	Original Report

TEST RESULT CERTIFICATION

Applicant : Micro-Star Int'l Co., Ltd.
Address : No. 69, Lide St., Zhonghe Dist., New Taipei City, Taiwan
Manufacturer : MSI ELECTRONICS(KUNSHAN)CO., LTD.
Address : No.88 East Qianjin Road, Kunshan city, Jiangsu province, China
EUT : Tablet PC
Model Name : Endeavor TN52, Endeavor TN52E, Endeavor JT52, Endeavor DN52
(Note: The only difference in models is the model's name, all other information is the same. Pre testing all models, and find the Endeavor TN52 is the worst, so only the worst data is shown in the report.)
Trademark : EPSON

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD	Test Procedure	TEST RESULT
Item 19 of Article 2 Paragraph 1	MIC public notice 88:2004, annex 43	PASS

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) was measured according to the test methods of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex "43" of Article 88, Paragraph 1 or the test method more than equivalent and the result is technically compliant with the ARIB STD T-66 requirements.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : August 7, 2025 to September 8, 2025

Prepared by : Una Yu
Una Yu/Editor

Reviewer : Joe Xia
Joe Xia/Supervisor

Approved & Authorized Signer : Lisa Wang
Lisa Wang/Manager

1 EUT TECHNICAL DESCRIPTION

Product Name:	Tablet PC
Model Number:	Endeavor TN52, Endeavor TN52E, Endeavor JT52, Endeavor DN52 (Note: The only difference in models is the model's name, all other information is the same. Pre testing all models, and find the Endeavor TN52 is the worst, so only the worst data is shown in the report.)
WLAN Supported:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 802.11ax(20MHz channel bandwidth) 802.11ax(40MHz channel bandwidth) 802.11be(20MHz channel bandwidth) 802.11be(40MHz channel bandwidth)
Modulation:	DSSS, OFDM, OFDMA
Operating Frequency Range:	2412-2472MHz for 802.11b/g/n(HT20)/ax(20)/be(20) 2422-2462MHz for 802.11n(HT40)/ax(40)/be(40)
Number of Channels:	13 channels for 802.11b/g/n(HT20)/ax(20)/be(20) 9 Channels for 802.11n(HT40)/ax(40)/be(40)
Smart System:	MIMO
Power Supply:	(1) Rechargeable Li-Polymer Battery 7.7V, 5585mAh(43Wh) (2) AC 100V/60Hz by Adapter Adapter information: Model: ADP-65XD A Input: 100-240VAC, 1.8A, 50-60Hz Output: 20VDC, 3.25A; 15VDC, 3A; 9VDC, 2A; 5VDC, 2A
Temperature Range:	0°C ~ 35°C

1.1 FEATURE OF EUT

a) Antenna information

Specification	Antenna	Brand	Model	Antenna Type	Gain
BT	1	/	/	Integrated Antenna	-3.88dBi
BLE	1	/	/	Integrated Antenna	-3.88dBi
2.4G WIFI	1	/	/	Integrated Antenna	-2.39dBi
2.4G WIFI	2	/	/	Integrated Antenna	-3.88dBi
5G WIFI	1	/	/	Integrated Antenna	-2.83dBi
5G WIFI	2	/	/	Integrated Antenna	-2.95dBi
WIFI 6E	1	/	/	Integrated Antenna	-2.46dBi
WIFI 6E	2	/	/	Integrated Antenna	-1.23dBi

Note: The antenna information provided by the manufacturer will have a certain impact on the test results.

b) Modification Record

There were no modifications required for compliance.

c) For more details, please refer to the user's manual of the EUT.

2 SUMMARY OF TEST RESULT

Clause	Test Parameter	Verdict	Remark
Item 19 of Article 2 Paragraph 1	Antenna Power	Pass	
Item 19 of Article 2 Paragraph 1	Frequency Error	Pass	
Item 19 of Article 2 Paragraph 1	Occupied Bandwidth (99%)	Pass	
Item 19 of Article 2 Paragraph 1	Spreading Bandwidth (90%)&Spread Factor	Pass	
Item 19 of Article 2 Paragraph 1	Spurious Emissions of Tx	Pass	
Item 19 of Article 2 Paragraph 1	Spurious Emissions of Rx	Pass	
Item 19 of Article 2 Paragraph 1	Interference Prevention Function	Pass	
Item 19 of Article 2 Paragraph 1	Carrier sense capability	Pass	
Item 19 of Article 2 Paragraph 1	RF accessibility	Pass	

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
Item 19 of Article 2 Paragraph 1 of the TELEC rules for 2.4GHz band wide-band low-power data communication system. All measurements contained in this report were conducted with test method for radio equipment specified in MIC public notice 88:2004, annex 43 for certification. And measuring method for electric field intensity of radio station with remarkably weak radiowave transmitted.

3.2 MEASUREMENT EQUIPMENT USED

3.2.1 Radio Frequency Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Calibration Body	Calibration Method
Wideband Radio Communication Tester	R&S	CMW500	171168	2024/9/18	1Year	LISAI	(c)
Frequency Extender	R&S	CMW-Z800A	100430	2024/9/18	1Year	LISAI	(c)
Spectrum Analyzer	R&S	FSV3044	101289	2024/9/18	1Year	LISAI	(c)
Analog Signal Generator	R&S	SMB100A	183237	2024/9/18	1Year	LISAI	(c)
Vector Signal Generator	R&S	SMM100A	101808	2024/9/18	1Year	LISAI	(c)
RF Control Unit(Power Meter)	Tonscend	JS0806-2	22C8060567	2024/9/18	1Year	LISAI	(c)
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10	1 Year	LISAI	(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.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channels list for 802.11b/g/n(HT20)/ax(HT20)/be(HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452		
5	2432	10	2457		

Frequency and Channels list for 802.11n(HT40)/ax(HT40)/be(HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442	10	2457
5	2432	8	2447	11	2462

Test Frequency and Channels for 802.11b/g/n(HT20)/ax(HT20)/be(HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442	13	2472

Test Frequency and channels for 802.11n(HT40)/ax(HT40)/be(HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442	11	2462

3.4 SUPPORT EQUIPMENT

N/A

Notes:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22."

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : The Certificate Registration Number is L2291
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

3m Chamber #1 : Certificated by VCCI, Japan
Registration No.: R-12777
Registration No.: G-20141

10m Chamber : Certificated by VCCI, Japan
Registration No.: R-14410

Shielding Room #1 : Certificated by VCCI, Japan
Registration No.: C-13065
Registration No.: T-11318

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong, Industry Zone, Nanshan District, Shenzhen, Guangdong, China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Uncertainty for Output power test	$\pm 0.83\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Power density test	$\pm 1.85\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

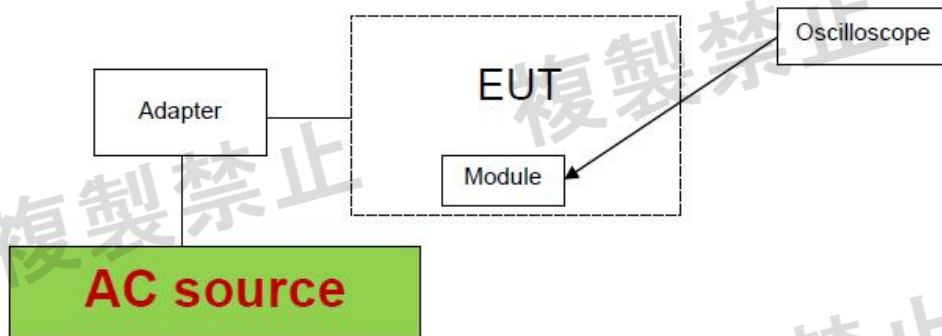
6 WIRELESS MODULE VOLTAGE TEST IN EXTREME CONDITIONS

6.1 Applicable Standard

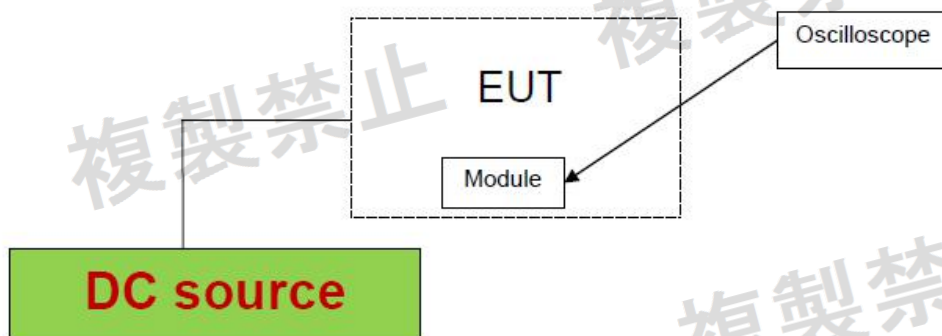
When there is a fluctuation of $\pm 10\%$ input voltage from external power to the test equipment. If the fluctuation of input voltage to the circuit of the radio part (excl. power) in the test equipment is confirmed below $\pm 1\%$, Measurement shall be tested with the rated voltage.

6.2 Test Configuration

Config A



Config B



6.3 Test Results

Temperature : 25°C Test By: GJ
Humidity : 60 % Atmospheric Pressure: 101KPa

Test Sample DC Input Voltage	4.5V	5V	5.5V
Input Voltage To The Circuit	3.30	3.29	3.32
Module Rated Voltage	3.30	3.30	3.30
The Deviation of Module Voltage (%)	0.00%	0.00%	0.00%

Note: In extreme conditions, The test sample module power is confirmed below $\pm 1\%$.

7 TEST REQUIREMENTS

7.1 ANTENNA POWER

7.1.1 Applicable Standard

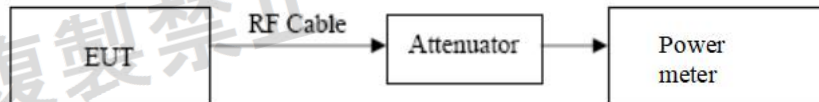
According to Equipment Regulations, art. 49.20.

7.1.2 Conformance Limit

The max permitted antenna power density shall not exceed 10mW/MHz and deviation of power density shall be less than 20% of declared power density.

Eirp: not exceed 12.14dBm/ MHz(OFDM.DS form 2400-2483.5 MHz)

7.1.3 Test Setup Block Diagram



7.1.4 Test Procedure

Set the EUT on the test frequency and the consecutive TX mode or continuous (constant period, constant burst length) burst TX mode.

In case of spreading code used, set on the test spreading code, then the modulation is performed with standard coding test signal.

(a) Connect a high-frequency power meter to the output of EUT and measure the total power.

(b) Antenna power shall be as follows.

a. Value of a for continuous wave

b. Burst wave The average power in the burst is calculated from the value of (a) and the transmission time rate.

7.1.5 Environmental Conditions

Temperature:	25°C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

7.1.6 Test Results

Power Level Setting

802.11 b (SISO)	default 15
802.11 g (SISO)	default 15
802.11 n (MIMO)	20M: default (2412/2472 power level: 14.5 2442 power level: 15) 40M: default (2422 power level: 14.75 2442/2462 power level: 15)
802.11 ax (MIMO)	20M: default (2412/2472 power level: 14.5 2442 power level: 15) 40M: default (2422 power level: 14.75 2442/2462 power level: 15)
802.11 be (MIMO)	20M: default (2412/2472 power level: 14.5 2442 power level: 15) 40M: default (2422 power level: 14.75 2442/2462 power level: 15)

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result(dBm/MHz)	Result(mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11B	Ant1	2412	5.59	3.6224	≤10	PASS
NTNV	11B	Ant2	2412	6.67	4.6452	≤10	PASS

NTNV	11B	Ant1	2442	5.61	3.6392	≤10	PASS
NTNV	11B	Ant2	2442	6.46	4.4259	≤10	PASS
NTNV	11B	Ant1	2472	5.74	3.7497	≤10	PASS
NTNV	11B	Ant2	2472	6.54	4.5082	≤10	PASS
NTNV	11G	Ant1	2412	3.40	2.1878	≤10	PASS
NTNV	11G	Ant2	2412	4.29	2.6853	≤10	PASS
NTNV	11G	Ant1	2442	3.51	2.2439	≤10	PASS
NTNV	11G	Ant2	2442	4.28	2.6792	≤10	PASS
NTNV	11G	Ant1	2472	2.56	1.8030	≤10	PASS
NTNV	11G	Ant2	2472	3.33	2.1528	≤10	PASS
NTNV	11N20MIMO	Ant1	2412	2.51	1.7824	≤10	PASS
NTNV	11N20MIMO	Ant2	2412	3.66	2.3227	≤10	PASS
NTNV	11N20MIMO	total	2412	6.13	4.1051	≤10	PASS
NTNV	11N20MIMO	Ant1	2442	3.04	2.0137	≤10	PASS
NTNV	11N20MIMO	Ant2	2442	3.95	2.4831	≤10	PASS
NTNV	11N20MIMO	total	2442	6.53	4.4968	≤10	PASS
NTNV	11N20MIMO	Ant1	2472	1.68	1.4723	≤10	PASS
NTNV	11N20MIMO	Ant2	2472	2.63	1.8323	≤10	PASS
NTNV	11N20MIMO	total	2472	5.19	3.3046	≤10	PASS
NTNV	11N40MIMO	Ant1	2422	-0.54	0.8831	≤5	PASS
NTNV	11N40MIMO	Ant2	2422	0.42	1.1015	≤5	PASS
NTNV	11N40MIMO	total	2422	2.98	1.9846	≤5	PASS
NTNV	11N40MIMO	Ant1	2442	-0.03	0.9931	≤5	PASS
NTNV	11N40MIMO	Ant2	2442	0.85	1.2162	≤5	PASS
NTNV	11N40MIMO	total	2442	3.44	2.2093	≤5	PASS
NTNV	11N40MIMO	Ant1	2462	-0.36	0.9204	≤5	PASS
NTNV	11N40MIMO	Ant2	2462	0.42	1.1015	≤5	PASS
NTNV	11N40MIMO	total	2462	3.06	2.0219	≤5	PASS
NTNV	11AX20MIMO	Ant1	2412	1.76	1.4997	≤10	PASS
NTNV	11AX20MIMO	Ant2	2412	3.08	2.0324	≤10	PASS
NTNV	11AX20MIMO	total	2412	5.48	3.5321	≤10	PASS
NTNV	11AX20MIMO	Ant1	2442	2.81	1.9099	≤10	PASS
NTNV	11AX20MIMO	Ant2	2442	3.14	2.0606	≤10	PASS
NTNV	11AX20MIMO	total	2442	5.99	3.9705	≤10	PASS
NTNV	11AX20MIMO	Ant1	2472	1.40	1.3804	≤10	PASS
NTNV	11AX20MIMO	Ant2	2472	2.24	1.6749	≤10	PASS
NTNV	11AX20MIMO	total	2472	4.85	3.0553	≤10	PASS
NTNV	11AX40MIMO	Ant1	2422	-1.05	0.7852	≤5	PASS
NTNV	11AX40MIMO	Ant2	2422	0.02	1.0046	≤5	PASS
NTNV	11AX40MIMO	total	2422	2.53	1.7898	≤5	PASS
NTNV	11AX40MIMO	Ant1	2442	-0.83	0.8260	≤5	PASS
NTNV	11AX40MIMO	Ant2	2442	0.48	1.1169	≤5	PASS
NTNV	11AX40MIMO	total	2442	2.88	1.9429	≤5	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.09	0.7780	≤5	PASS
NTNV	11AX40MIMO	Ant2	2462	0.31	1.0740	≤5	PASS
NTNV	11AX40MIMO	total	2462	2.68	1.8520	≤5	PASS
NTNV	11BE20MIMO	Ant1	2412	2.29	1.6943	≤10	PASS
NTNV	11BE20MIMO	Ant2	2412	3.44	2.2080	≤10	PASS
NTNV	11BE20MIMO	total	2412	5.91	3.9023	≤10	PASS
NTNV	11BE20MIMO	Ant1	2442	2.80	1.9055	≤10	PASS
NTNV	11BE20MIMO	Ant2	2442	3.69	2.3388	≤10	PASS
NTNV	11BE20MIMO	total	2442	6.28	4.2443	≤10	PASS
NTNV	11BE20MIMO	Ant1	2472	1.52	1.4191	≤10	PASS
NTNV	11BE20MIMO	Ant2	2472	2.04	1.5996	≤10	PASS
NTNV	11BE20MIMO	total	2472	4.80	3.0187	≤10	PASS
NTNV	11BE40MIMO	Ant1	2422	-1.43	0.7194	≤5	PASS
NTNV	11BE40MIMO	Ant2	2422	-0.10	0.9772	≤5	PASS
NTNV	11BE40MIMO	total	2422	2.30	1.6966	≤5	PASS
NTNV	11BE40MIMO	Ant1	2442	-0.33	0.9268	≤5	PASS
NTNV	11BE40MIMO	Ant2	2442	0.43	1.1041	≤5	PASS
NTNV	11BE40MIMO	total	2442	3.08	2.0309	≤5	PASS
NTNV	11BE40MIMO	Ant1	2462	-0.53	0.8851	≤5	PASS
NTNV	11BE40MIMO	Ant2	2462	-0.08	0.9817	≤5	PASS
NTNV	11BE40MIMO	total	2462	2.71	1.8668	≤5	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
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NTNV	11B	Ant1	2412	3.6224	10	-63.78	20	PASS
NTNV	11B	Ant2	2412	4.6452	10	-53.55	20	PASS
NTNV	11B	Ant1	2442	3.6392	10	-63.61	20	PASS
NTNV	11B	Ant2	2442	4.4259	10	-55.74	20	PASS
NTNV	11B	Ant1	2472	3.7497	10	-62.50	20	PASS
NTNV	11B	Ant2	2472	4.5082	10	-54.92	20	PASS
NTNV	11G	Ant1	2412	2.1878	8	-72.65	20	PASS
NTNV	11G	Ant2	2412	2.6853	8	-66.43	20	PASS
NTNV	11G	Ant1	2442	2.2439	8	-71.95	20	PASS
NTNV	11G	Ant2	2442	2.6792	8	-66.51	20	PASS
NTNV	11G	Ant1	2472	1.8030	8	-77.46	20	PASS
NTNV	11G	Ant2	2472	2.1528	8	-73.09	20	PASS
NTNV	11N20MIMO	total	2412	4.1051	6	-31.58	20	PASS
NTNV	11N20MIMO	total	2442	4.4968	6	-25.05	20	PASS
NTNV	11N20MIMO	total	2472	3.3046	6	-44.92	20	PASS
NTNV	11N40MIMO	total	2422	1.9846	5	-60.31	20	PASS
NTNV	11N40MIMO	total	2442	2.2093	5	-55.81	20	PASS
NTNV	11N40MIMO	total	2462	2.0219	5	-59.56	20	PASS
NTNV	11AX20MIMO	total	2412	3.5321	6	-41.13	20	PASS
NTNV	11AX20MIMO	total	2442	3.9705	6	-33.83	20	PASS
NTNV	11AX20MIMO	total	2472	3.0553	6	-49.08	20	PASS
NTNV	11AX40MIMO	total	2422	1.7898	5	-64.20	20	PASS
NTNV	11AX40MIMO	total	2442	1.9429	5	-61.14	20	PASS
NTNV	11AX40MIMO	total	2462	1.8520	5	-62.96	20	PASS
NTNV	11BE20MIMO	total	2412	3.9023	6	-34.96	20	PASS
NTNV	11BE20MIMO	total	2442	4.2443	6	-29.26	20	PASS
NTNV	11BE20MIMO	total	2472	3.0187	6	-49.69	20	PASS
NTNV	11BE40MIMO	total	2422	1.6966	5	-66.07	20	PASS
NTNV	11BE40MIMO	total	2442	2.0309	5	-59.38	20	PASS
NTNV	11BE40MIMO	total	2462	1.8668	5	-62.66	20	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result(dBm/MHz)	EIRP(dBm/MHz)	Limit(dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	5.59	3.20	≤12.14	PASS
NTNV	11B	Ant2	2412	6.67	2.79	≤12.14	PASS
NTNV	11B	Ant1	2442	5.61	3.22	≤12.14	PASS
NTNV	11B	Ant2	2442	6.46	2.58	≤12.14	PASS
NTNV	11B	Ant1	2472	5.74	3.35	≤12.14	PASS
NTNV	11B	Ant2	2472	6.54	2.66	≤12.14	PASS
NTNV	11G	Ant1	2412	3.40	1.01	≤12.14	PASS
NTNV	11G	Ant2	2412	4.29	0.41	≤12.14	PASS
NTNV	11G	Ant1	2442	3.51	1.12	≤12.14	PASS
NTNV	11G	Ant2	2442	4.28	0.40	≤12.14	PASS
NTNV	11G	Ant1	2472	2.56	0.17	≤12.14	PASS
NTNV	11G	Ant2	2472	3.33	-0.55	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2412	2.51	0.12	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2412	3.66	-0.22	≤12.14	PASS
NTNV	11N20MIMO	total	2412	6.13	2.96	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2442	3.04	0.65	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2442	3.95	0.07	≤12.14	PASS
NTNV	11N20MIMO	total	2442	6.53	3.38	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2472	1.68	-0.71	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2472	2.63	-1.25	≤12.14	PASS
NTNV	11N20MIMO	total	2472	5.19	2.04	≤12.14	PASS
NTNV	11N40MIMO	Ant1	2422	-0.54	-2.93	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2422	0.42	-3.46	≤9.13	PASS
NTNV	11N40MIMO	total	2422	2.98	-0.18	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2442	-0.03	-2.42	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2442	0.85	-3.03	≤9.13	PASS
NTNV	11N40MIMO	total	2442	3.44	0.30	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2462	-0.36	-2.75	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2462	0.42	-3.46	≤9.13	PASS
NTNV	11N40MIMO	total	2462	3.06	-0.08	≤9.13	PASS
NTNV	11AX20MIMO	Ant1	2412	1.76	-0.63	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2412	3.08	-0.80	≤12.14	PASS
NTNV	11AX20MIMO	total	2412	5.48	2.30	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2442	2.81	0.42	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2442	3.14	-0.74	≤12.14	PASS

NTNV	11AX20MIMO	total	2442	5.99	2.89	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2472	1.40	-0.99	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2472	2.24	-1.64	≤12.14	PASS
NTNV	11AX20MIMO	total	2472	4.85	1.71	≤12.14	PASS
NTNV	11AX40MIMO	Ant1	2422	-1.05	-3.44	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2422	0.02	-3.86	≤9.13	PASS
NTNV	11AX40MIMO	total	2422	2.53	-0.63	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2442	-0.83	-3.22	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2442	0.48	-3.40	≤9.13	PASS
NTNV	11AX40MIMO	total	2442	2.88	-0.30	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.09	-3.48	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2462	0.31	-3.57	≤9.13	PASS
NTNV	11AX40MIMO	total	2462	2.68	-0.51	≤9.13	PASS
NTNV	11BE20MIMO	Ant1	2412	2.29	-0.10	≤12.14	PASS
NTNV	11BE20MIMO	Ant2	2412	3.44	-0.44	≤12.14	PASS
NTNV	11BE20MIMO	total	2412	5.91	2.74	≤12.14	PASS
NTNV	11BE20MIMO	Ant1	2442	2.80	0.41	≤12.14	PASS
NTNV	11BE20MIMO	Ant2	2442	3.69	-0.19	≤12.14	PASS
NTNV	11BE20MIMO	total	2442	6.28	3.13	≤12.14	PASS
NTNV	11BE20MIMO	Ant1	2472	1.52	-0.87	≤12.14	PASS
NTNV	11BE20MIMO	Ant2	2472	2.04	-1.84	≤12.14	PASS
NTNV	11BE20MIMO	total	2472	4.80	1.68	≤12.14	PASS
NTNV	11BE40MIMO	Ant1	2422	-1.43	-3.82	≤9.13	PASS
NTNV	11BE40MIMO	Ant2	2422	-0.10	-3.98	≤9.13	PASS
NTNV	11BE40MIMO	total	2422	2.30	-0.89	≤9.13	PASS
NTNV	11BE40MIMO	Ant1	2442	-0.33	-2.72	≤9.13	PASS
NTNV	11BE40MIMO	Ant2	2442	0.43	-3.45	≤9.13	PASS
NTNV	11BE40MIMO	total	2442	3.08	-0.06	≤9.13	PASS
NTNV	11BE40MIMO	Ant1	2462	-0.53	-2.92	≤9.13	PASS
NTNV	11BE40MIMO	Ant2	2462	-0.08	-3.96	≤9.13	PASS
NTNV	11BE40MIMO	total	2462	2.71	-0.40	≤9.13	PASS

7.2 FREQUENCY ERROR

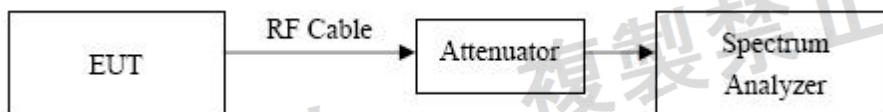
7.2.1 Applicable Standard

According to Item 19 of Article 2 Paragraph 1.

7.2.2 Conformance Limit

the maximum permit tolerance of frequency is 50ppm.

7.2.3 Test Setup Block Diagram



7.2.4 Test Procedure

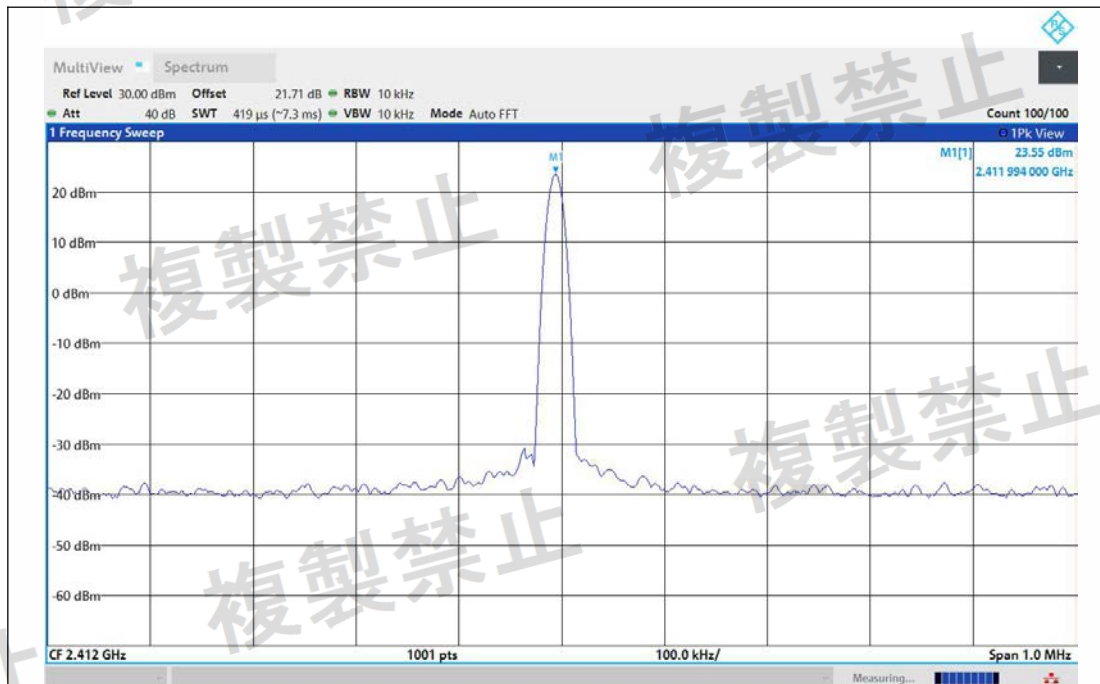
1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10KHz, Span = 1MHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

7.2.5 Environmental Conditions

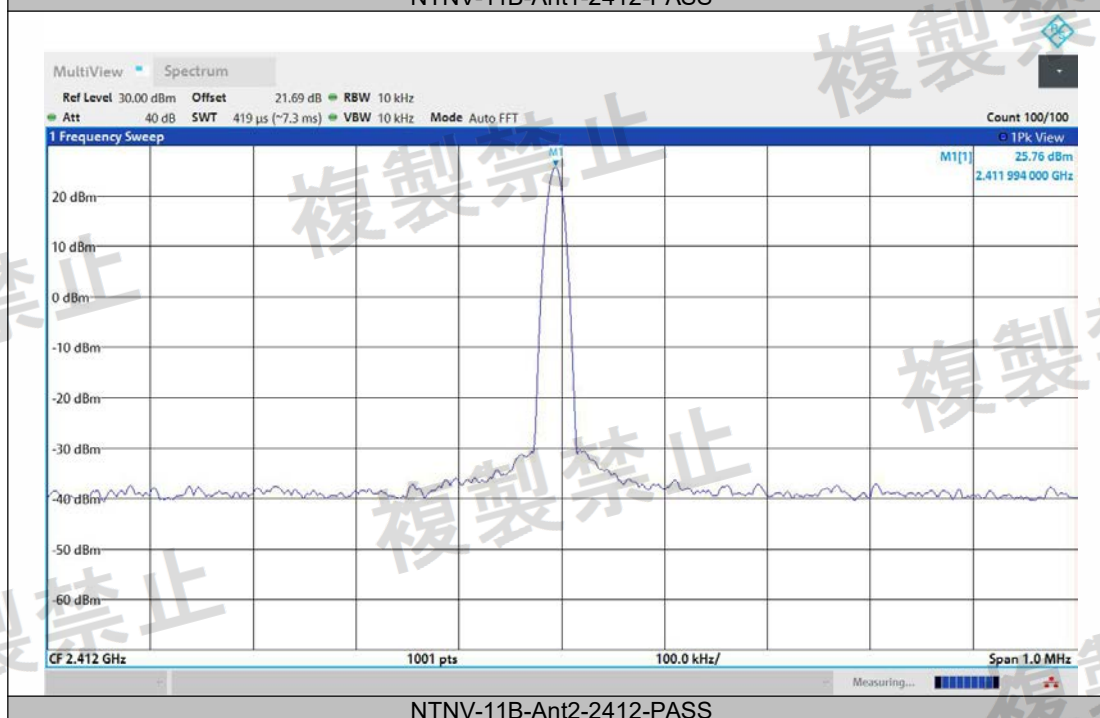
Temperature:	25°C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

7.2.6 Test Results

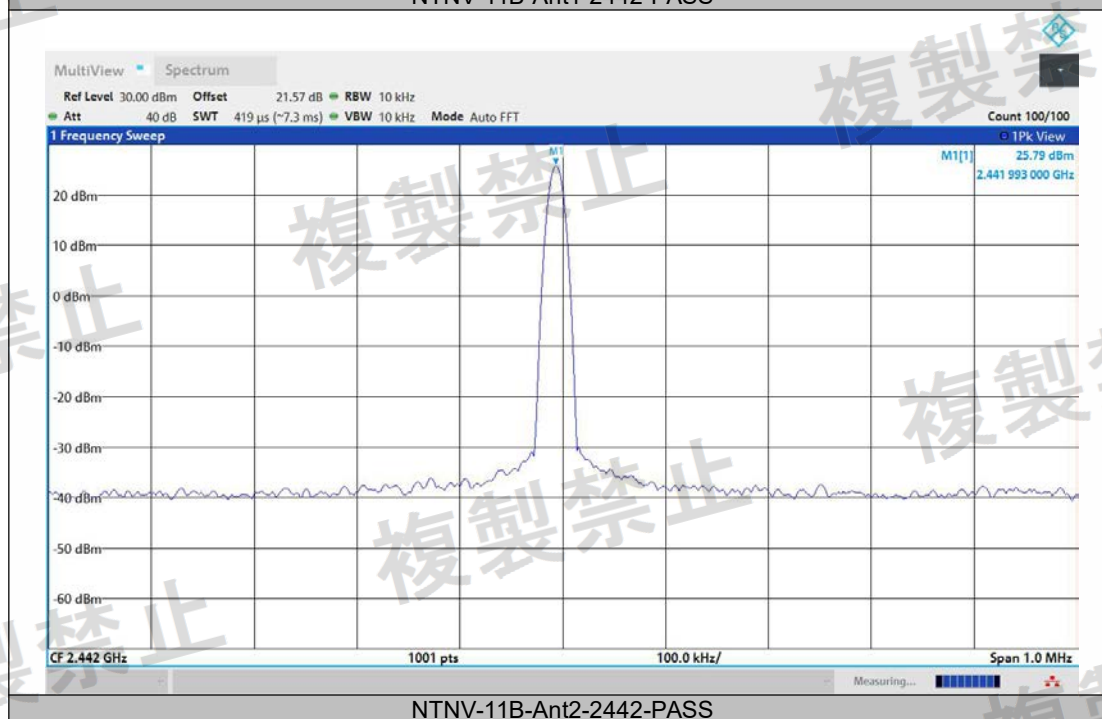
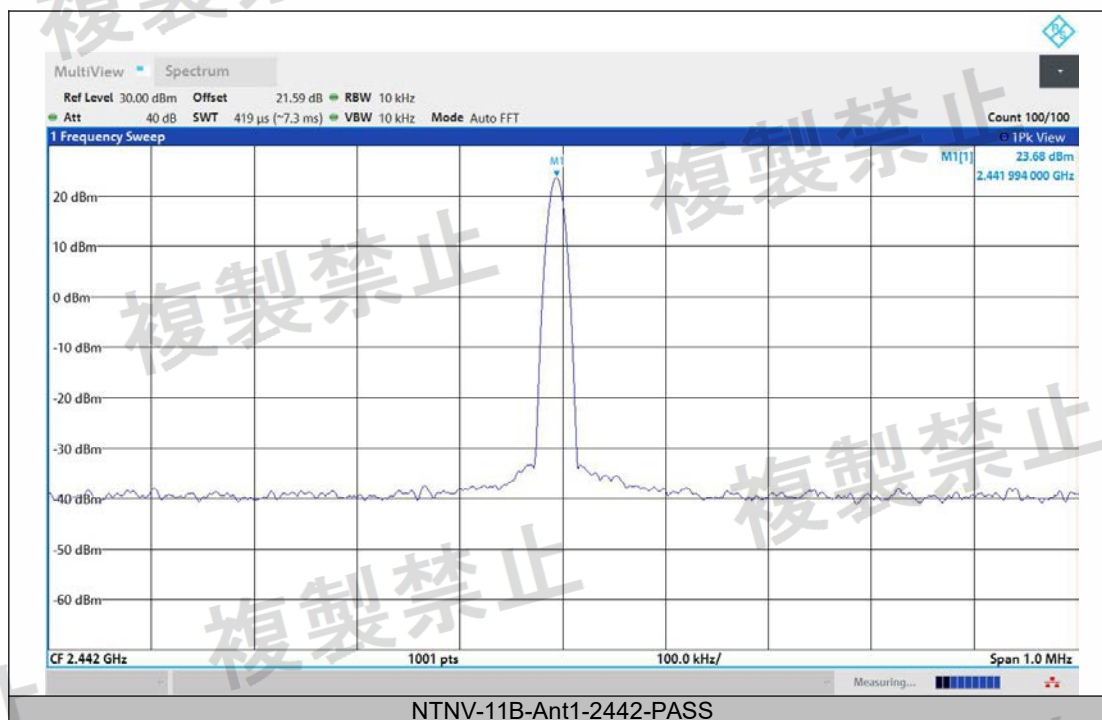
Test Condition	TestMode	Antenna	Frequency[M Hz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	11B	Ant1	2412	2411.994	-2.48756	±50	PASS
NTNV	11B	Ant2	2412	2411.994	-2.48756	±50	PASS
NTNV	11B	Ant1	2442	2441.994	-2.45700	±50	PASS
NTNV	11B	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11B	Ant1	2472	2471.993	-2.83172	±50	PASS
NTNV	11B	Ant2	2472	2471.993	-2.83172	±50	PASS
NTNV	11G	Ant1	2412	2411.994	-2.48756	±50	PASS
NTNV	11G	Ant2	2412	2411.994	-2.48756	±50	PASS
NTNV	11G	Ant1	2442	2441.994	-2.45700	±50	PASS
NTNV	11G	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11G	Ant1	2472	2471.993	-2.83172	±50	PASS
NTNV	11G	Ant2	2472	2471.994	-2.42718	±50	PASS
NTNV	11N20MIMO	Ant1	2412	2411.994	-2.48756	±50	PASS
NTNV	11N20MIMO	Ant2	2412	2411.994	-2.48756	±50	PASS
NTNV	11N20MIMO	Ant1	2442	2441.993	-2.86650	±50	PASS
NTNV	11N20MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11N20MIMO	Ant1	2472	2471.993	-2.83172	±50	PASS
NTNV	11N20MIMO	Ant2	2472	2471.993	-2.83172	±50	PASS
NTNV	11N40MIMO	Ant1	2422	2421.994	-2.47729	±50	PASS
NTNV	11N40MIMO	Ant2	2422	2421.994	-2.47729	±50	PASS
NTNV	11N40MIMO	Ant1	2442	2441.993	-2.86650	±50	PASS
NTNV	11N40MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11N40MIMO	Ant1	2462	2461.994	-2.43704	±50	PASS
NTNV	11N40MIMO	Ant2	2462	2461.994	-2.43704	±50	PASS
NTNV	11AX20MIMO	Ant1	2412	2411.994	-2.48756	±50	PASS
NTNV	11AX20MIMO	Ant2	2412	2411.994	-2.48756	±50	PASS
NTNV	11AX20MIMO	Ant1	2442	2441.994	-2.45700	±50	PASS
NTNV	11AX20MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11AX20MIMO	Ant1	2472	2471.993	-2.83172	±50	PASS
NTNV	11AX20MIMO	Ant2	2472	2471.993	-2.83172	±50	PASS
NTNV	11AX40MIMO	Ant1	2422	2421.993	-2.89017	±50	PASS
NTNV	11AX40MIMO	Ant2	2422	2421.994	-2.47729	±50	PASS
NTNV	11AX40MIMO	Ant1	2442	2441.993	-2.86650	±50	PASS
NTNV	11AX40MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11AX40MIMO	Ant1	2462	2461.994	-2.43704	±50	PASS
NTNV	11AX40MIMO	Ant2	2462	2461.994	-2.43704	±50	PASS
NTNV	11BE20MIMO	Ant1	2412	2411.993	-2.90216	±50	PASS
NTNV	11BE20MIMO	Ant2	2412	2411.993	-2.90216	±50	PASS
NTNV	11BE20MIMO	Ant1	2442	2441.993	-2.86650	±50	PASS
NTNV	11BE20MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11BE20MIMO	Ant1	2472	2471.993	-2.83172	±50	PASS
NTNV	11BE20MIMO	Ant2	2472	2471.993	-2.83172	±50	PASS
NTNV	11BE40MIMO	Ant1	2422	2421.993	-2.89017	±50	PASS
NTNV	11BE40MIMO	Ant2	2422	2421.994	-2.47729	±50	PASS
NTNV	11BE40MIMO	Ant1	2442	2441.993	-2.86650	±50	PASS
NTNV	11BE40MIMO	Ant2	2442	2441.993	-2.86650	±50	PASS
NTNV	11BE40MIMO	Ant1	2462	2461.994	-2.43704	±50	PASS
NTNV	11BE40MIMO	Ant2	2462	2461.994	-2.43704	±50	PASS

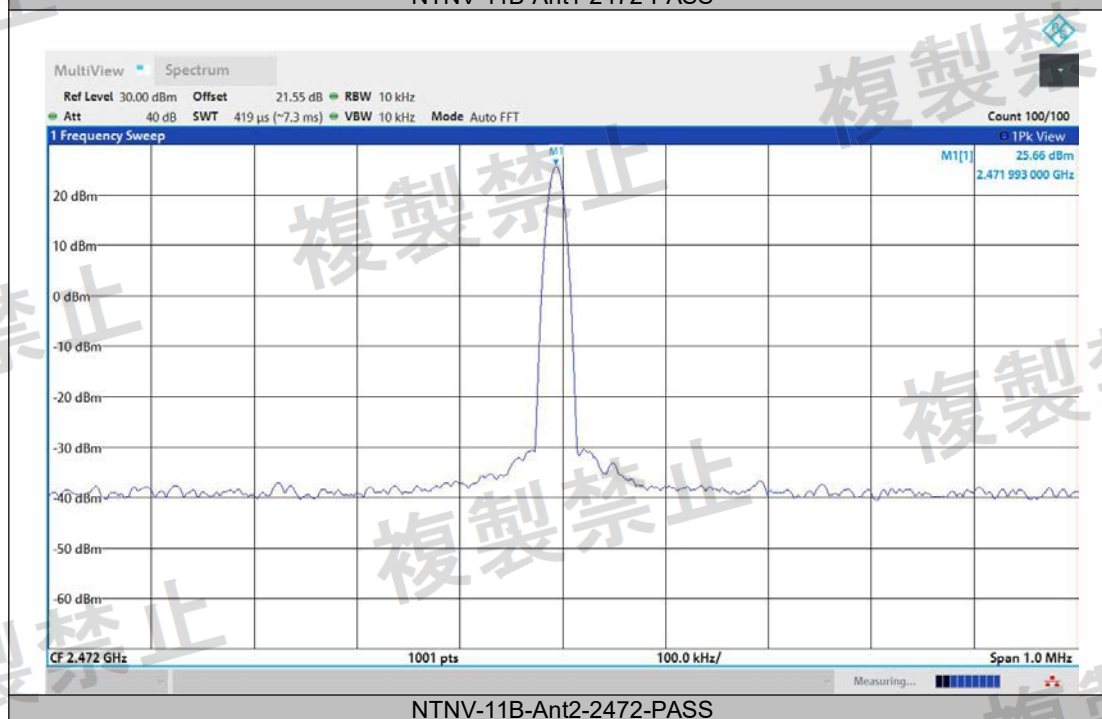
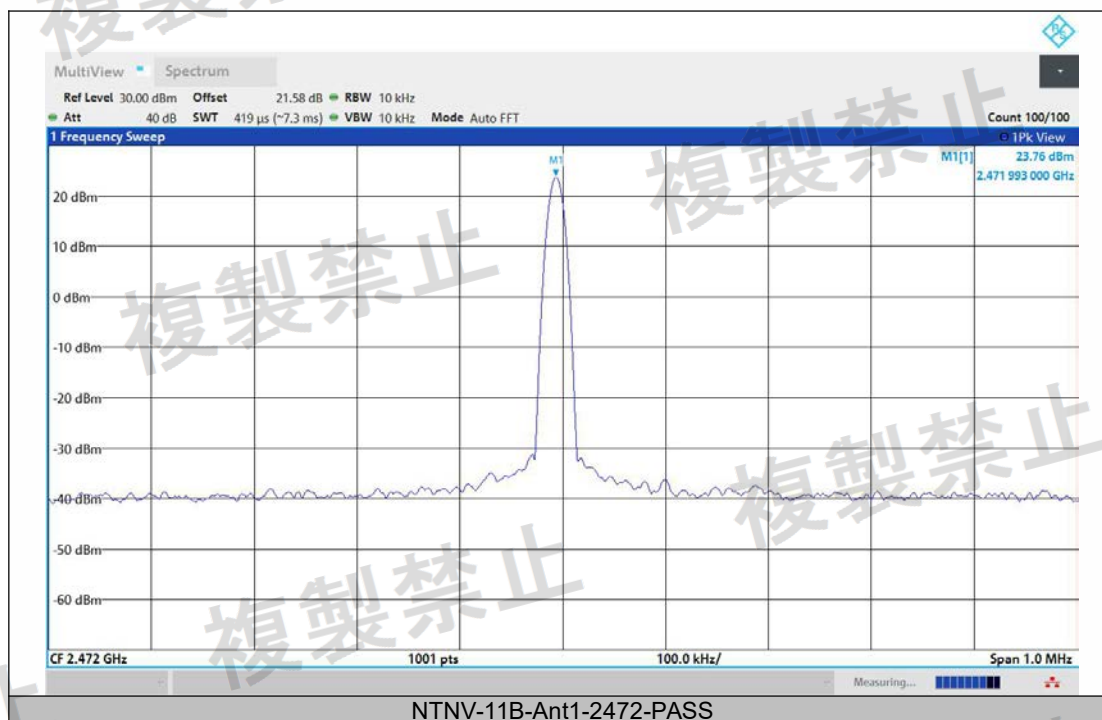


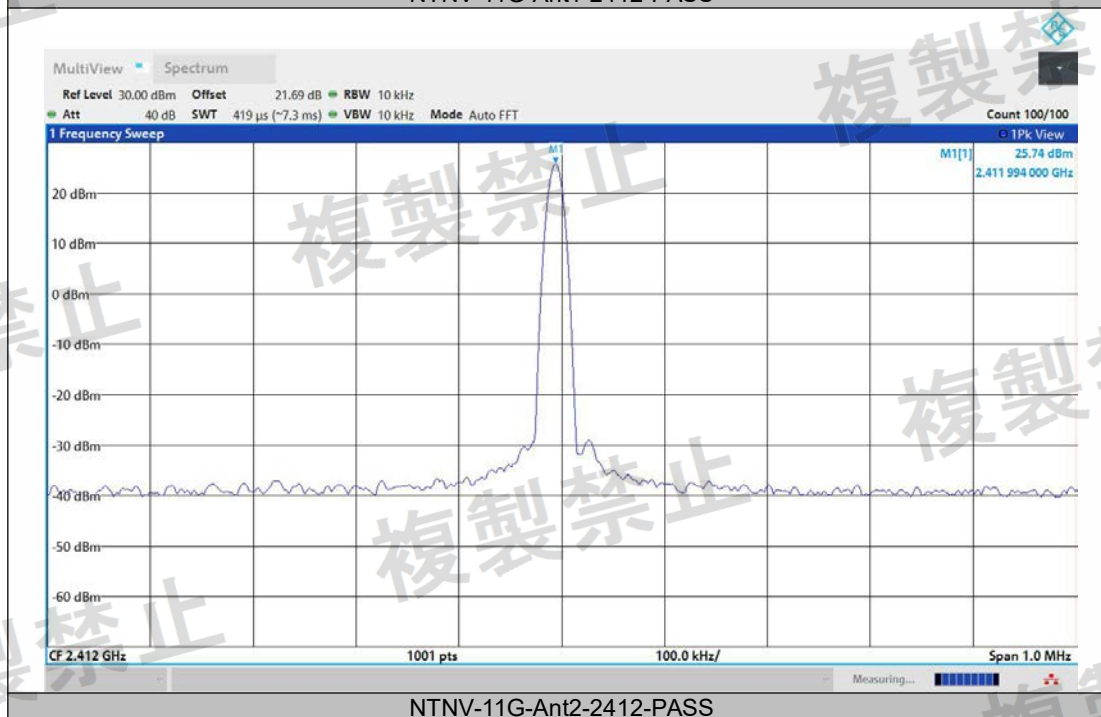
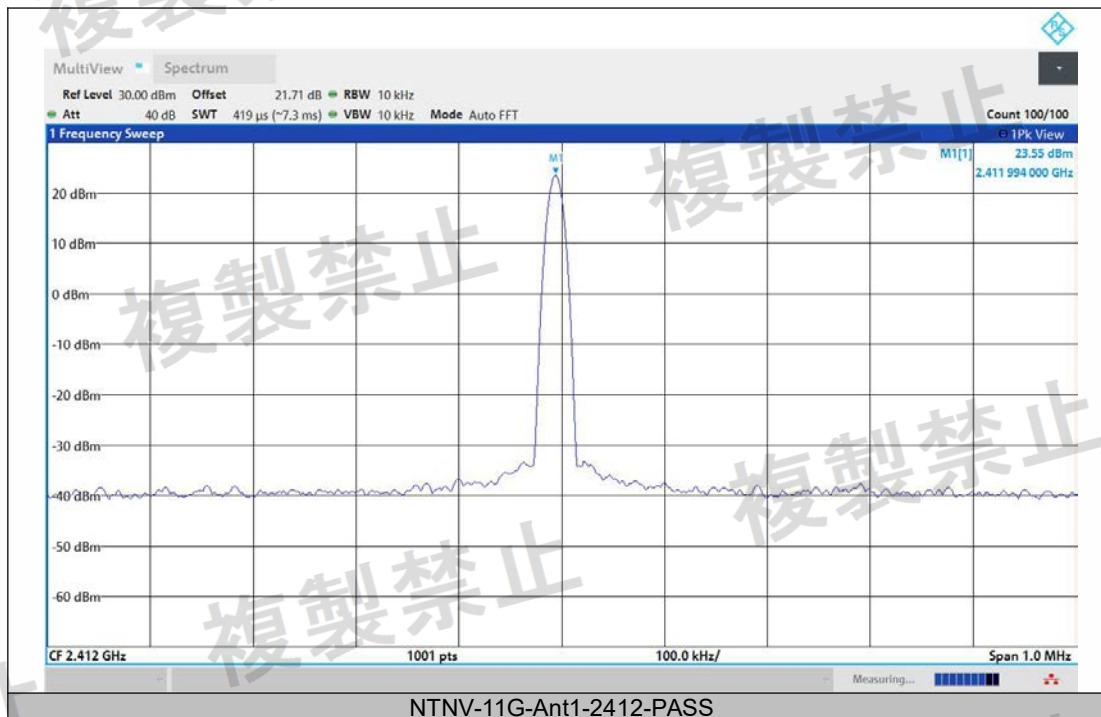
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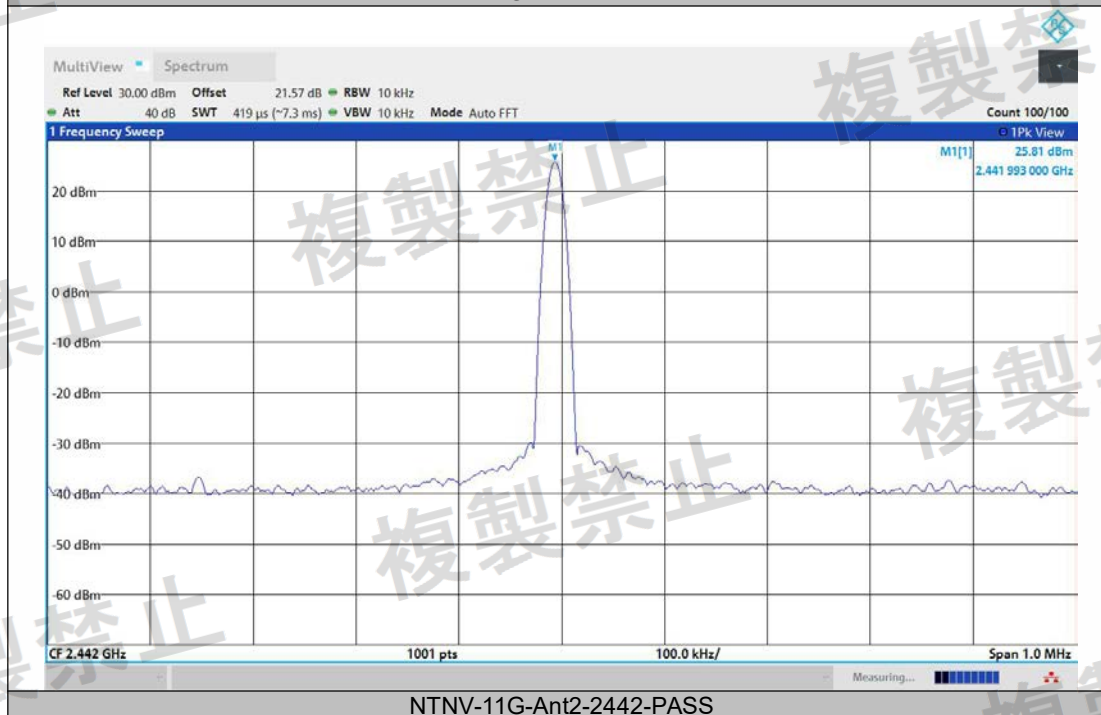
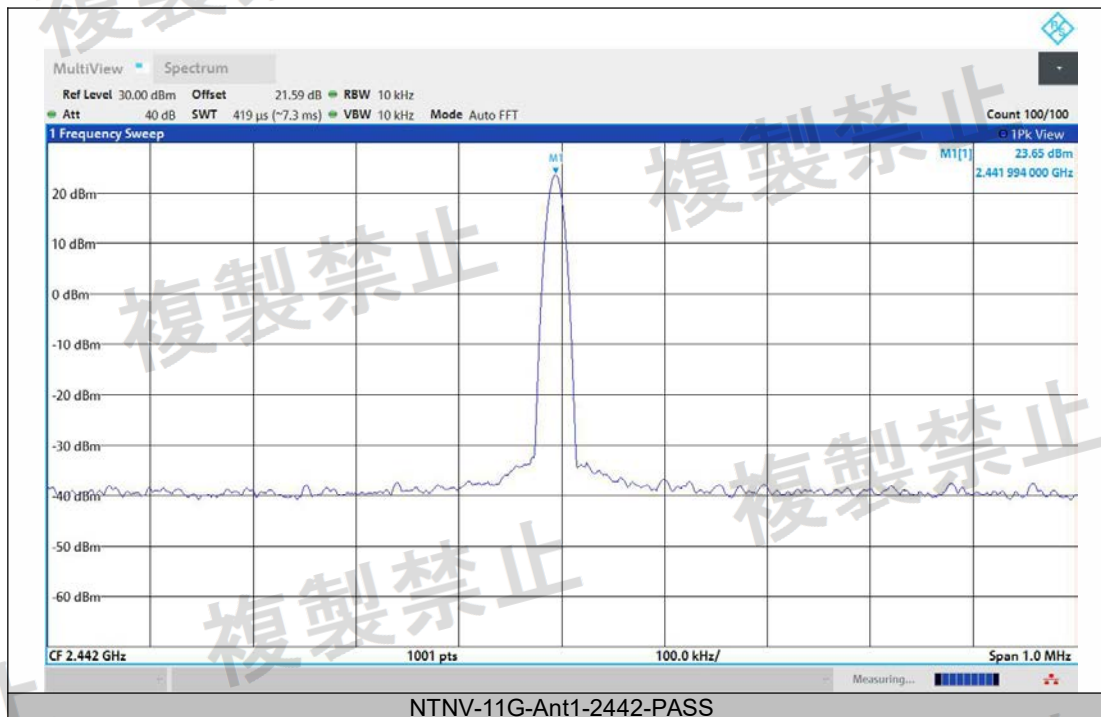


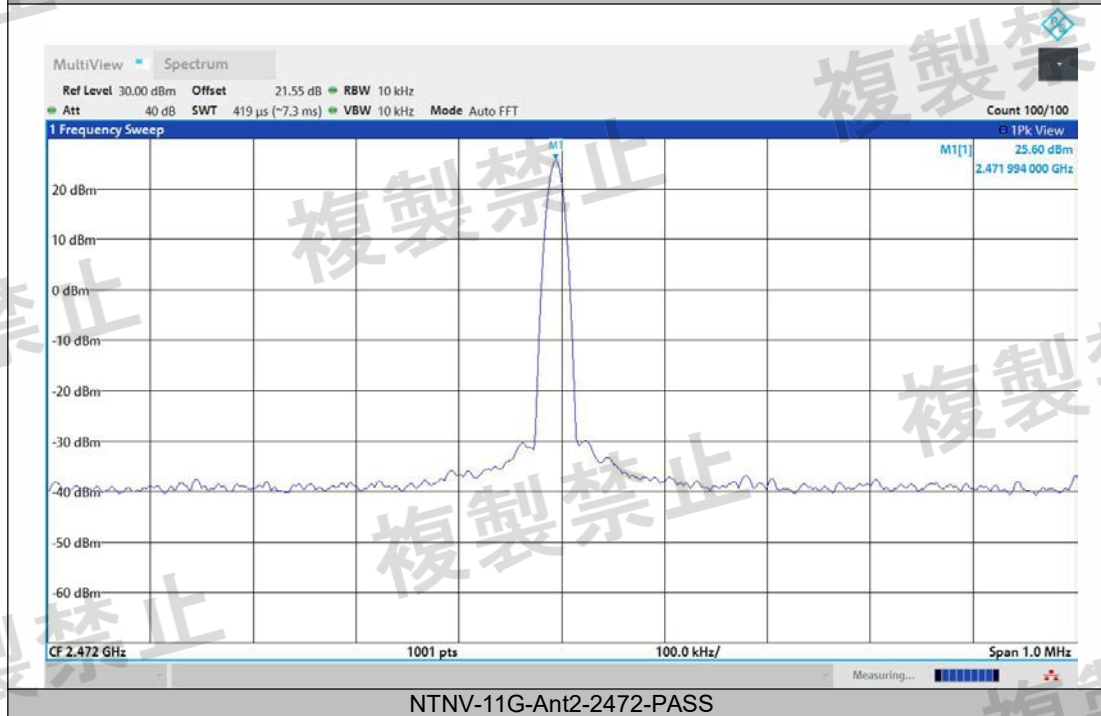
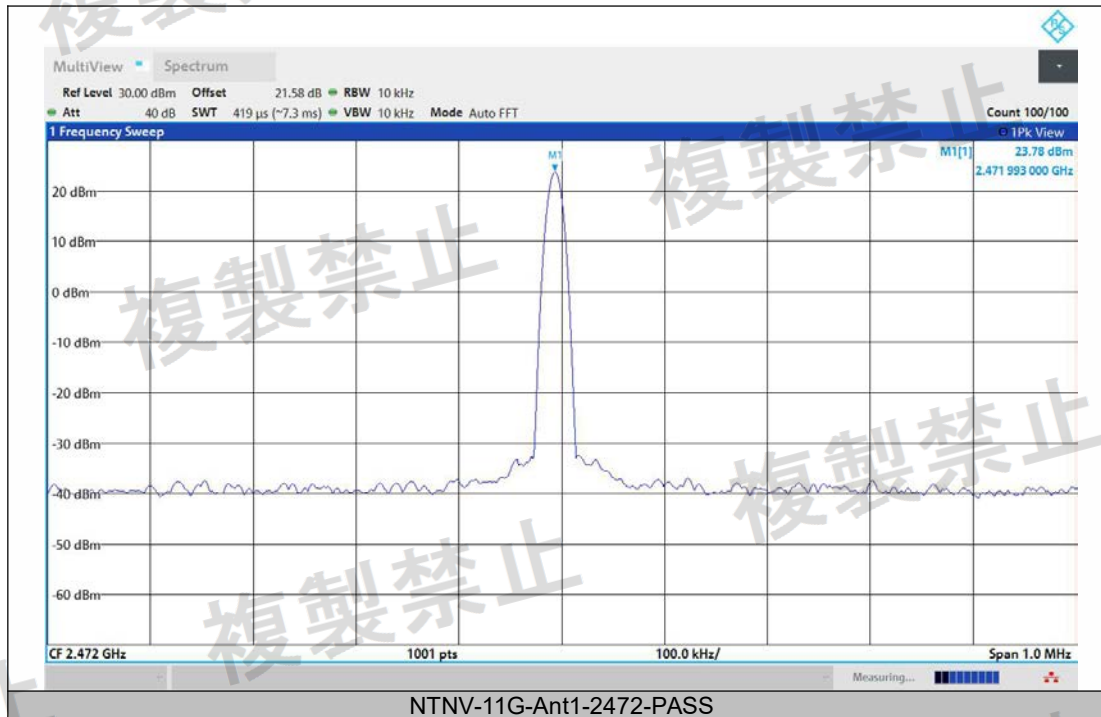
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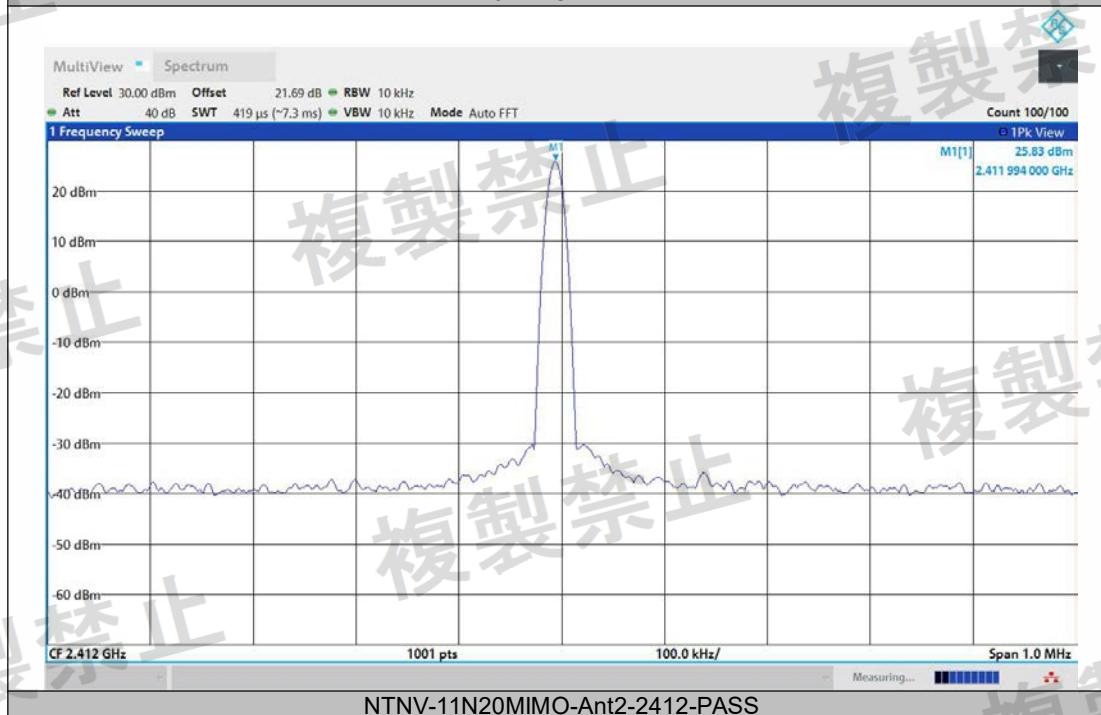
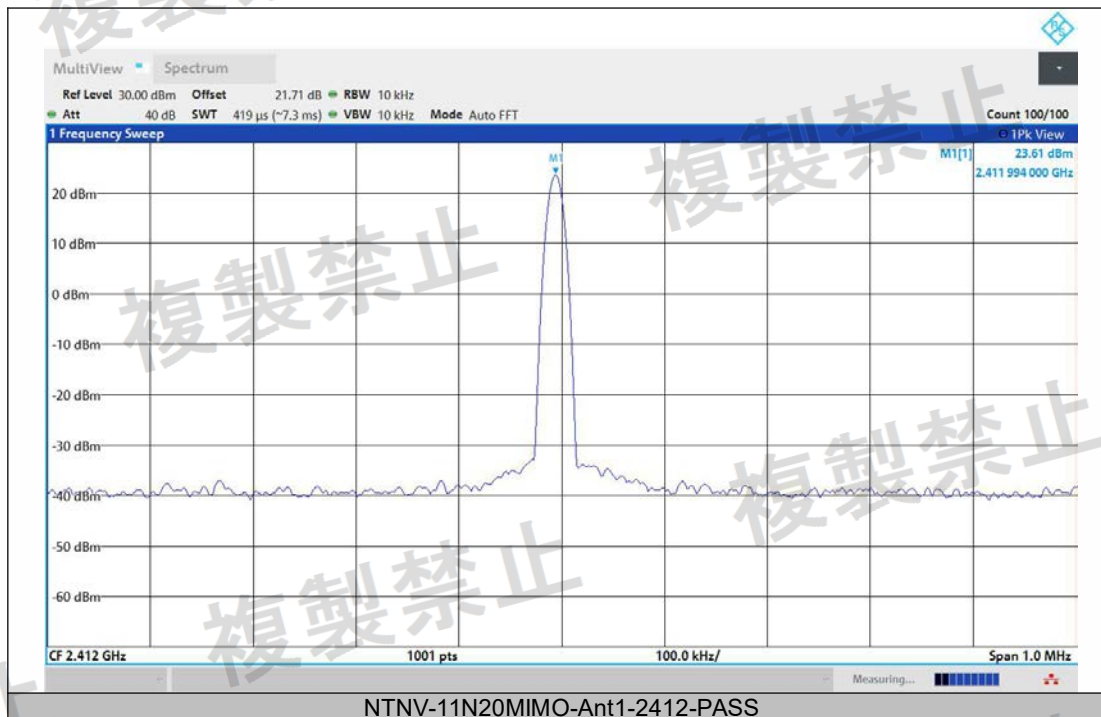


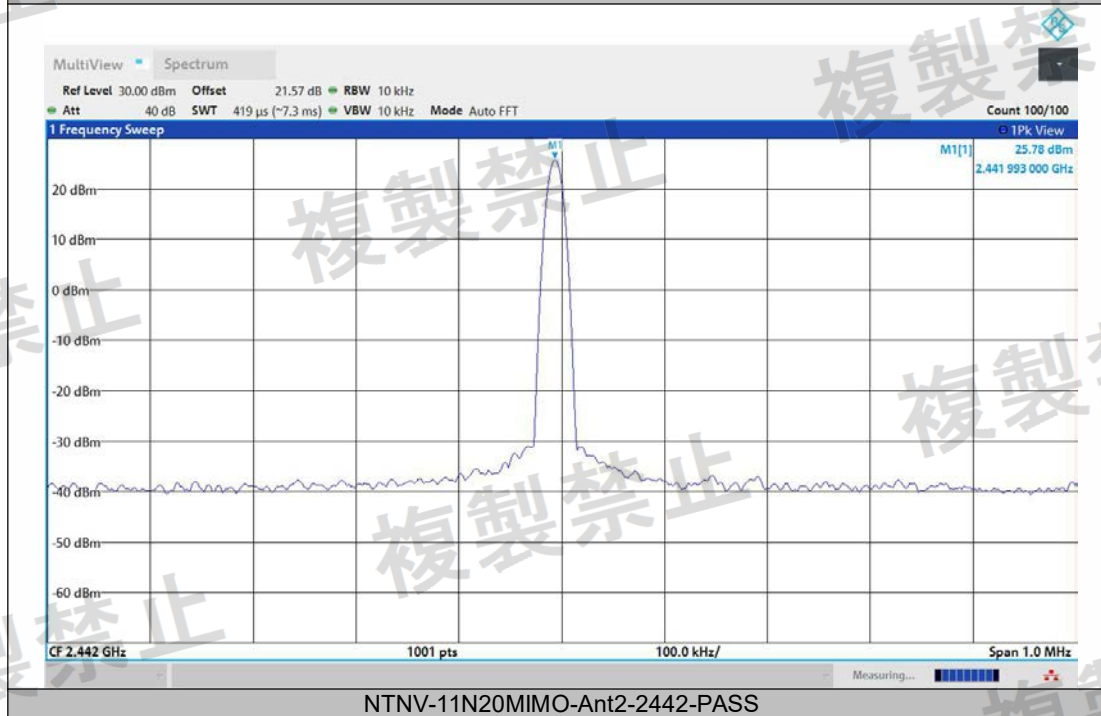
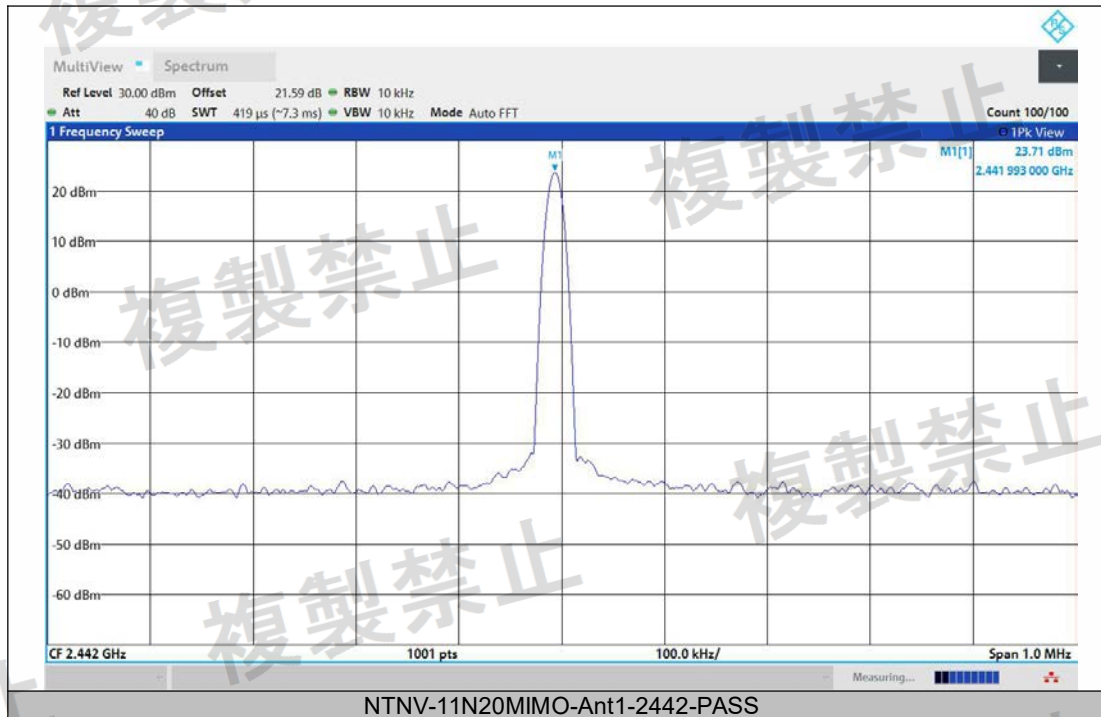


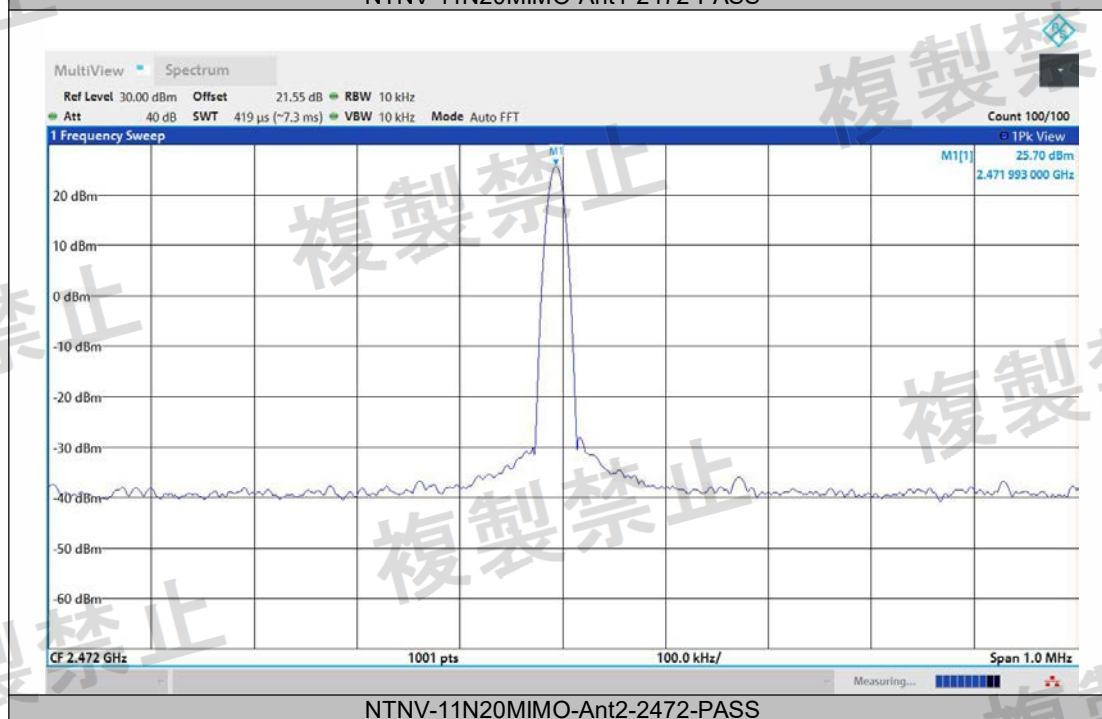
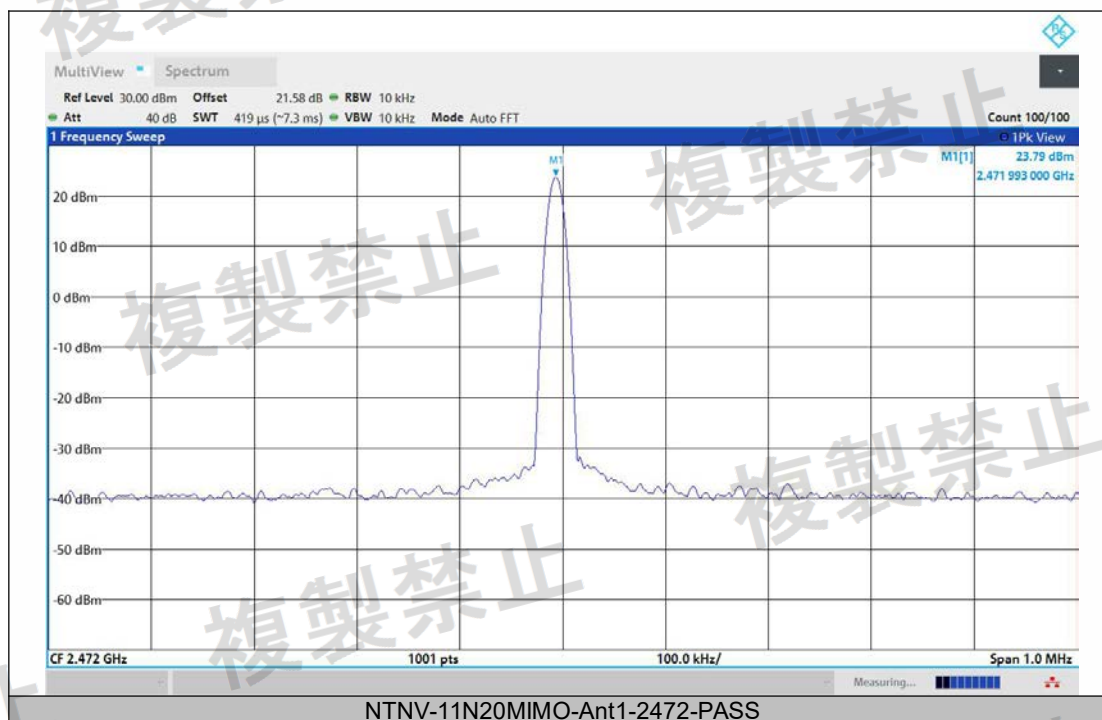


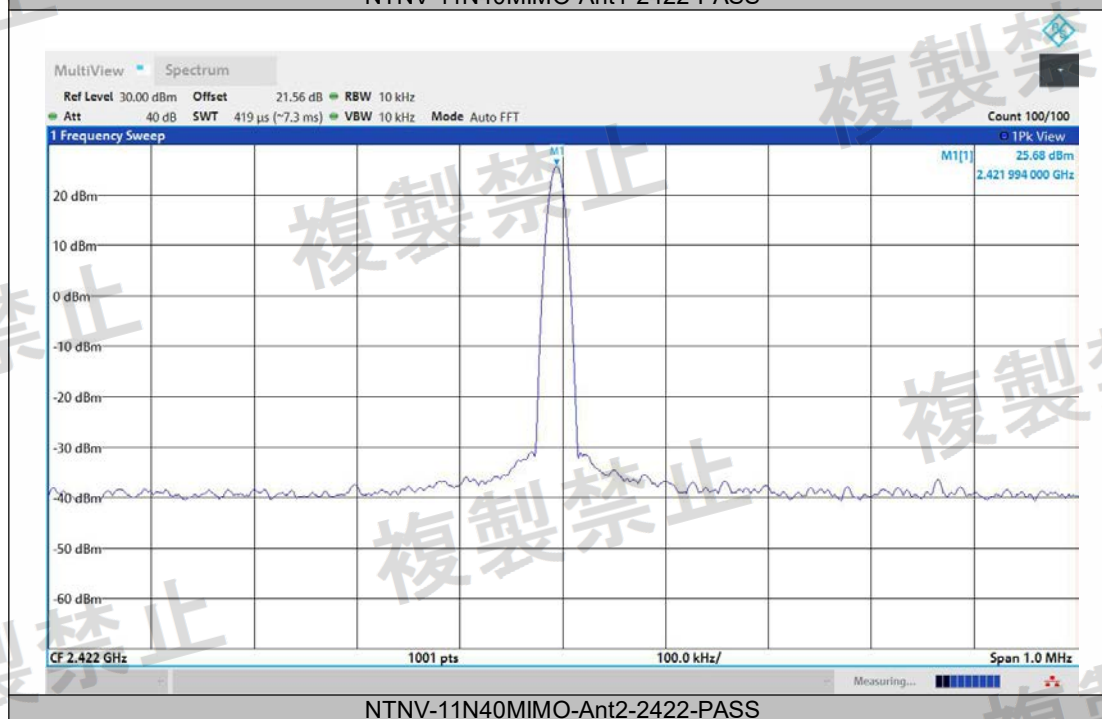
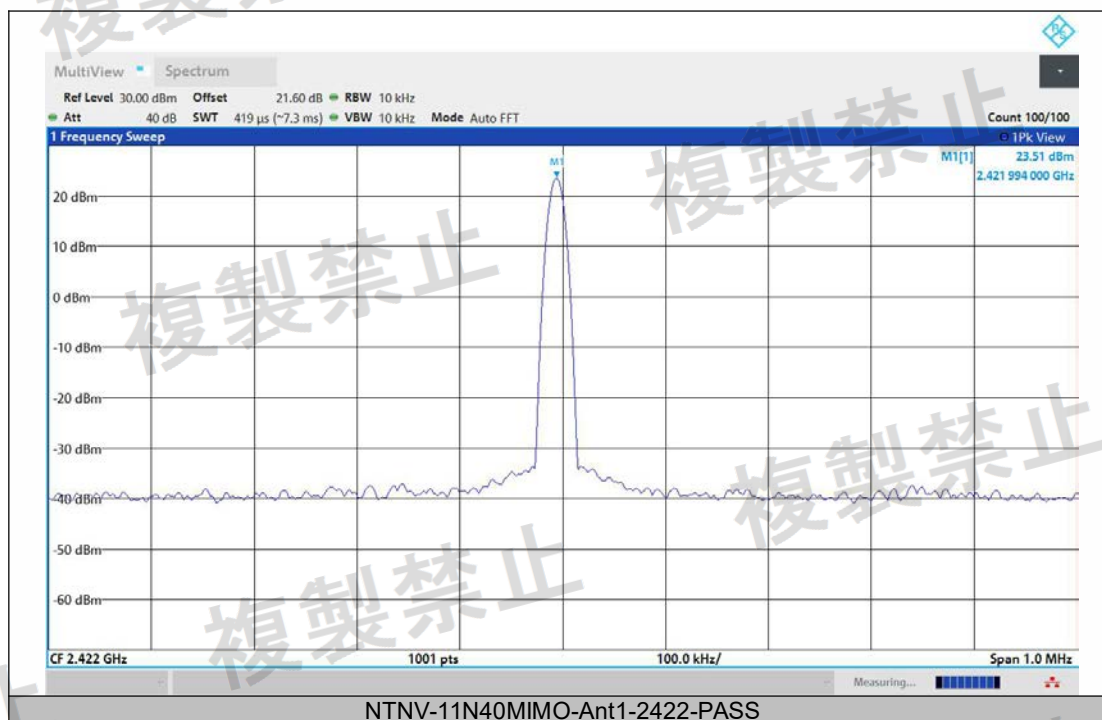


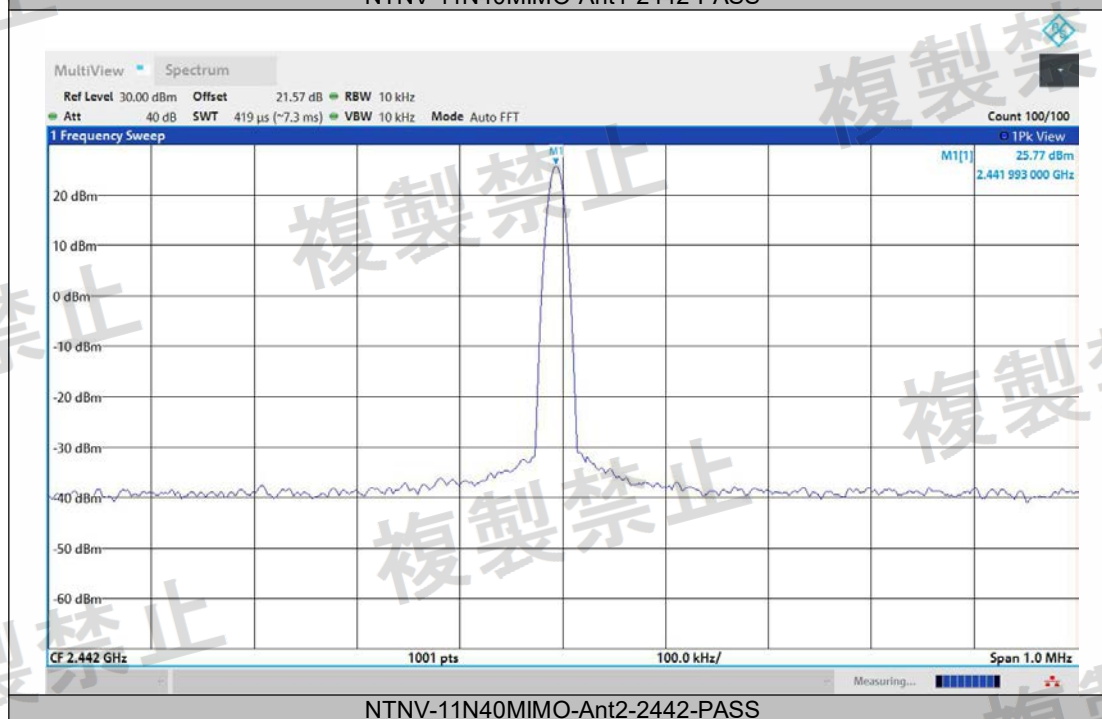
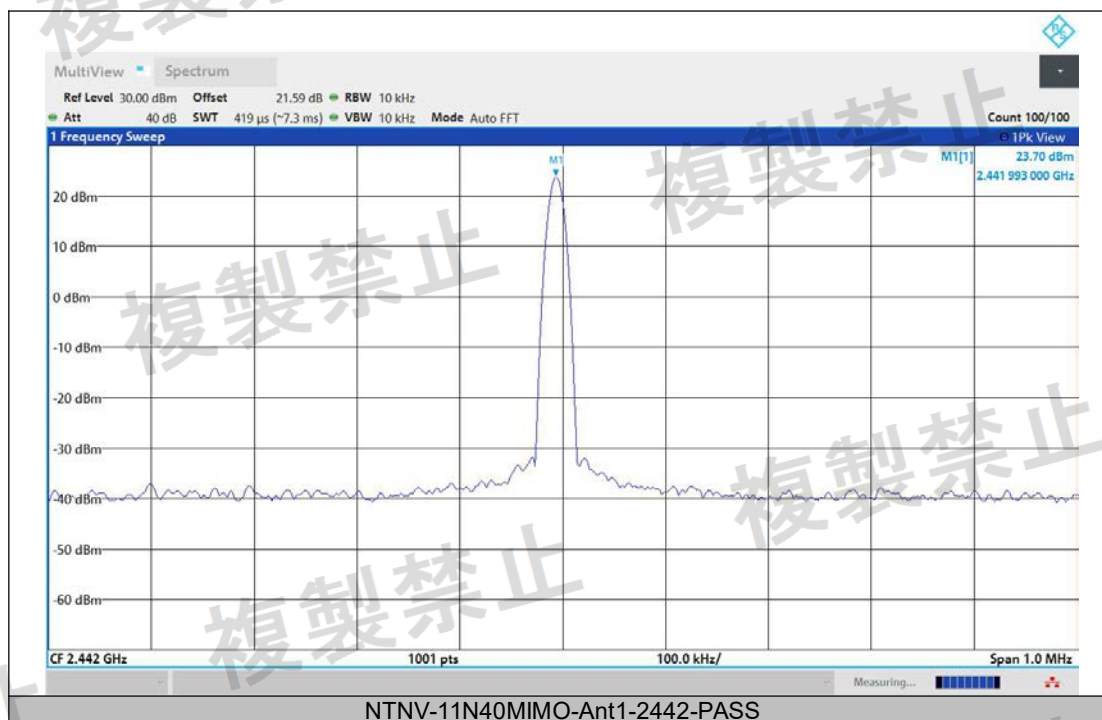


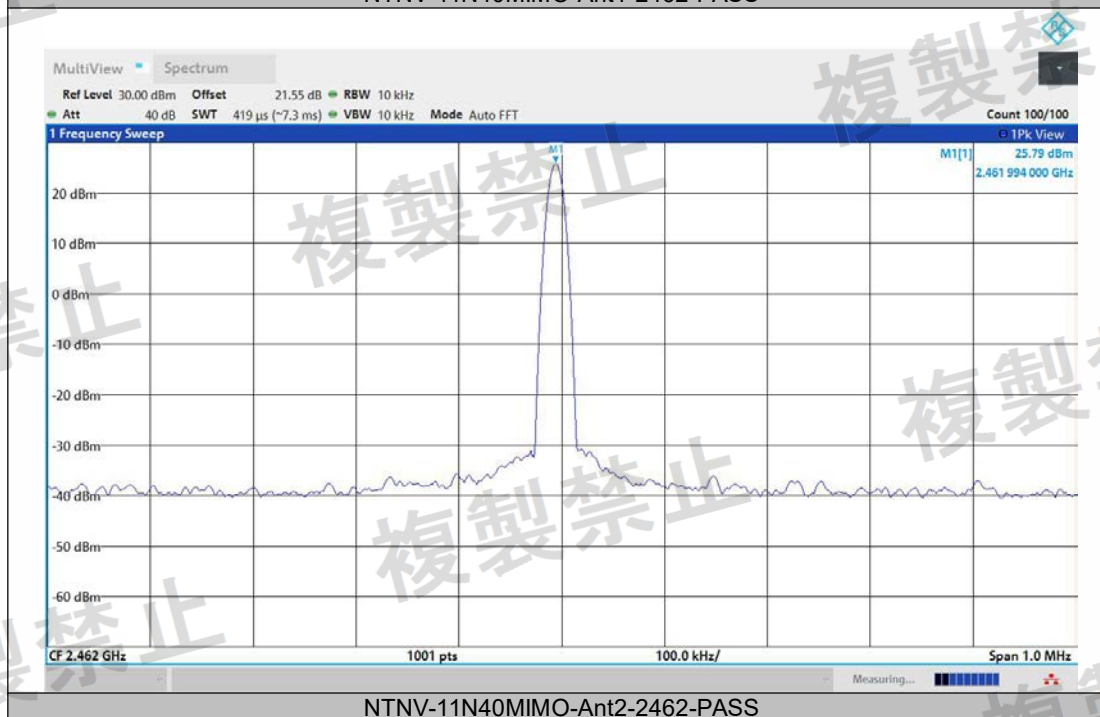
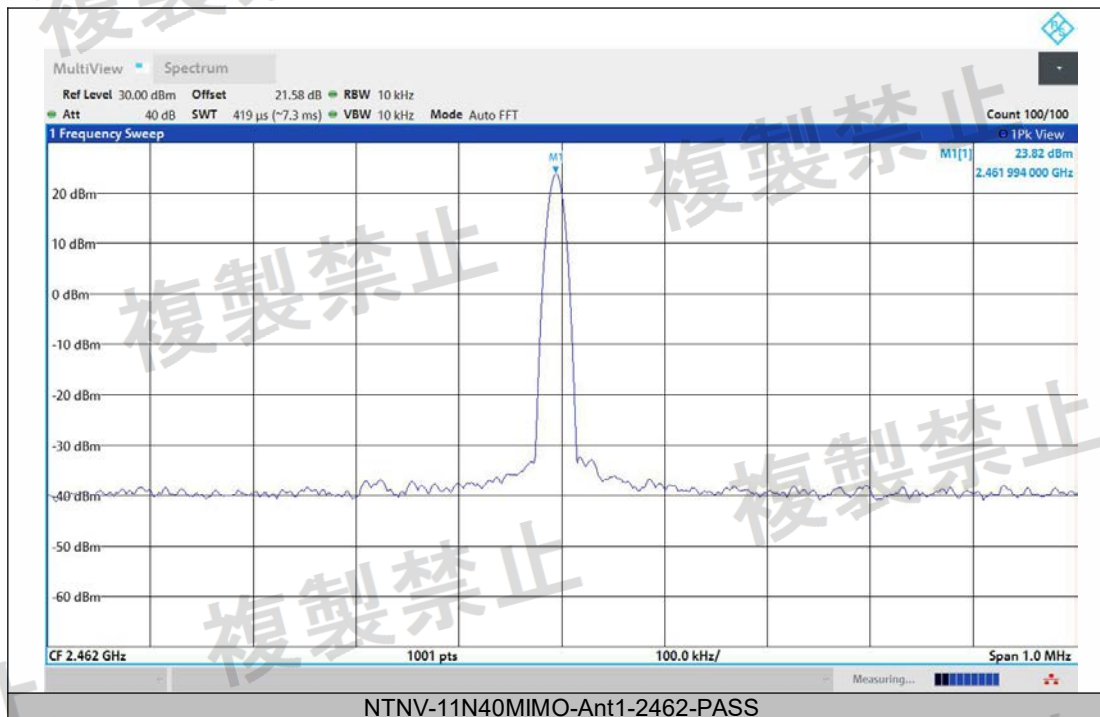


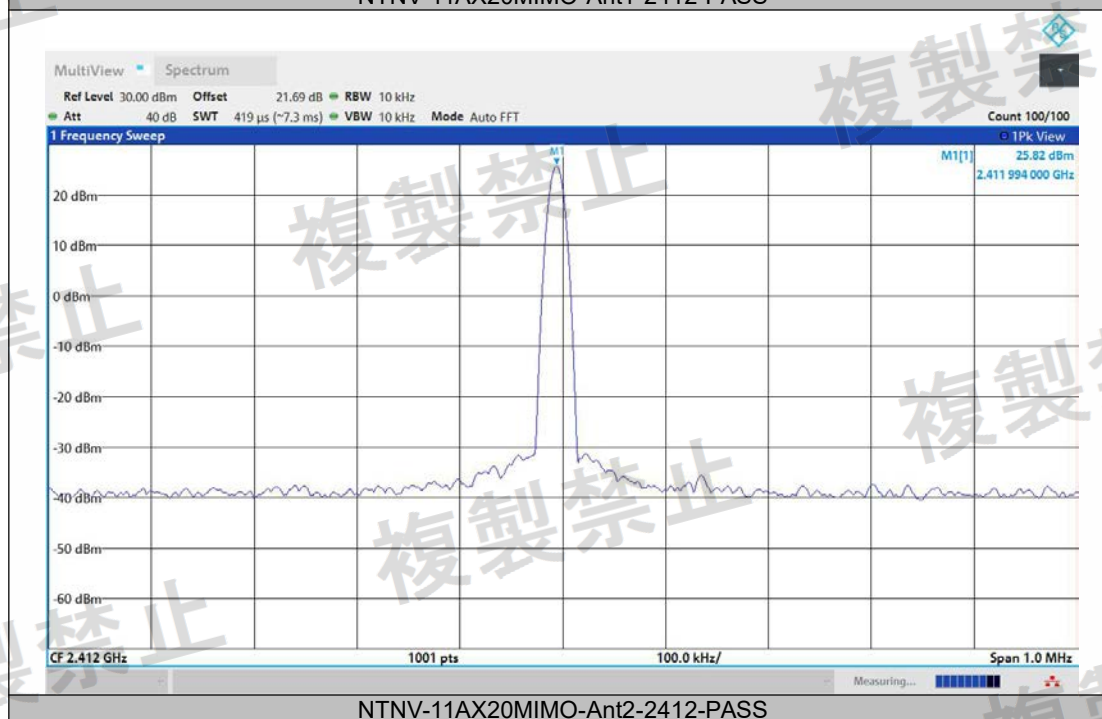
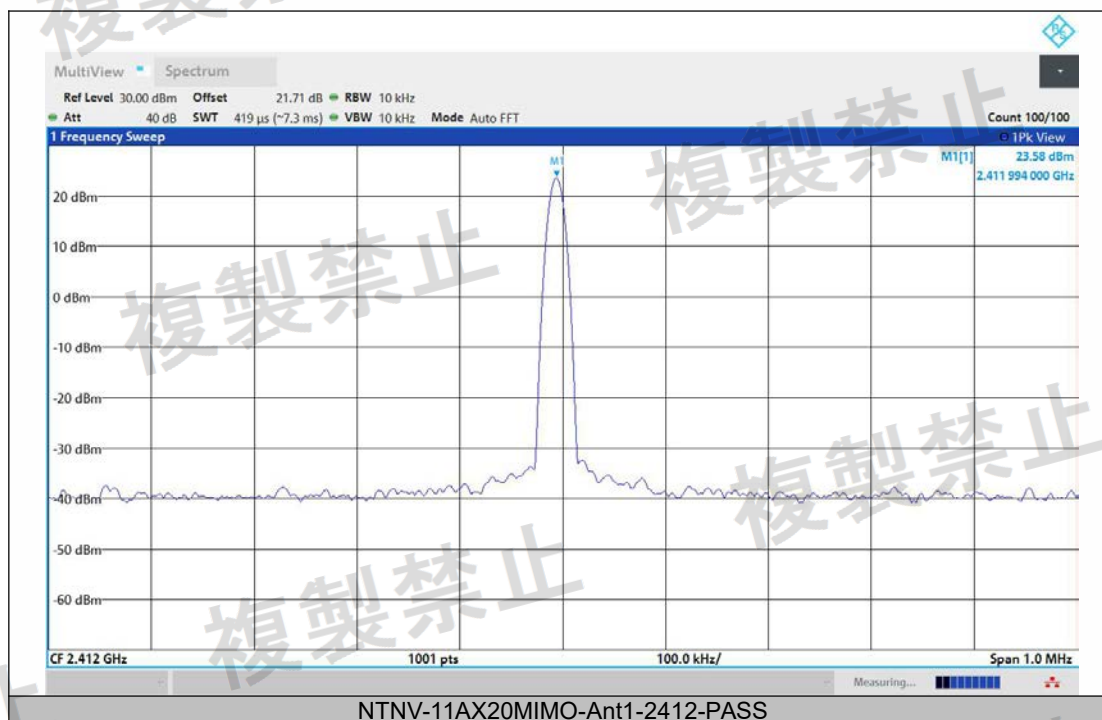


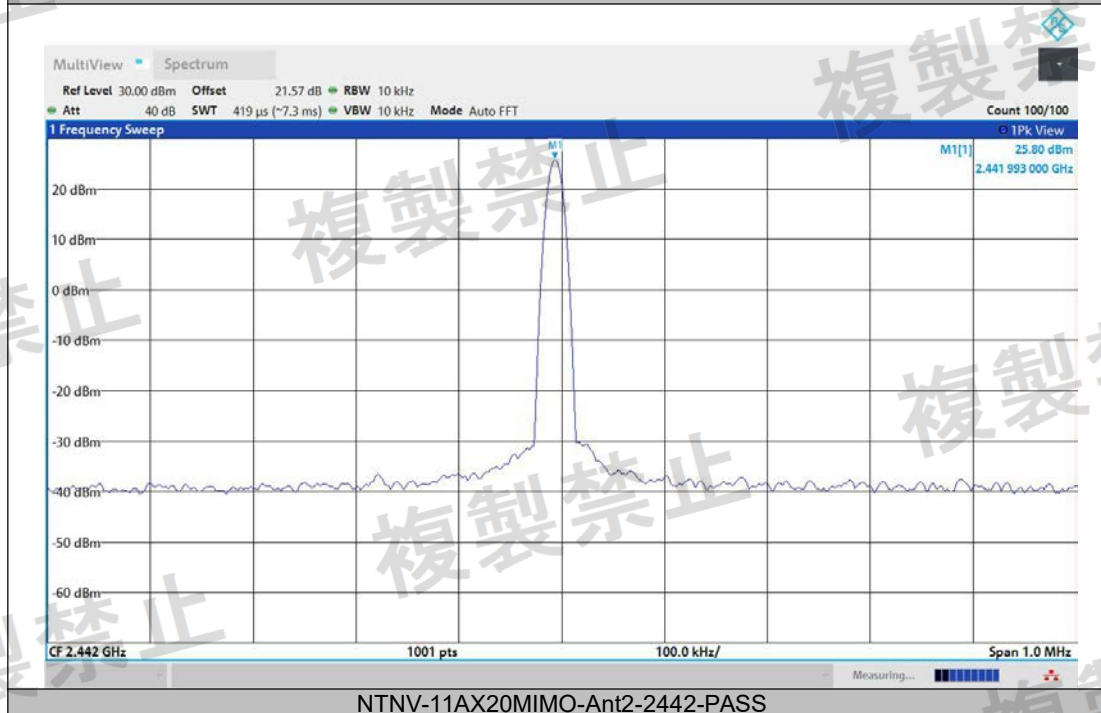
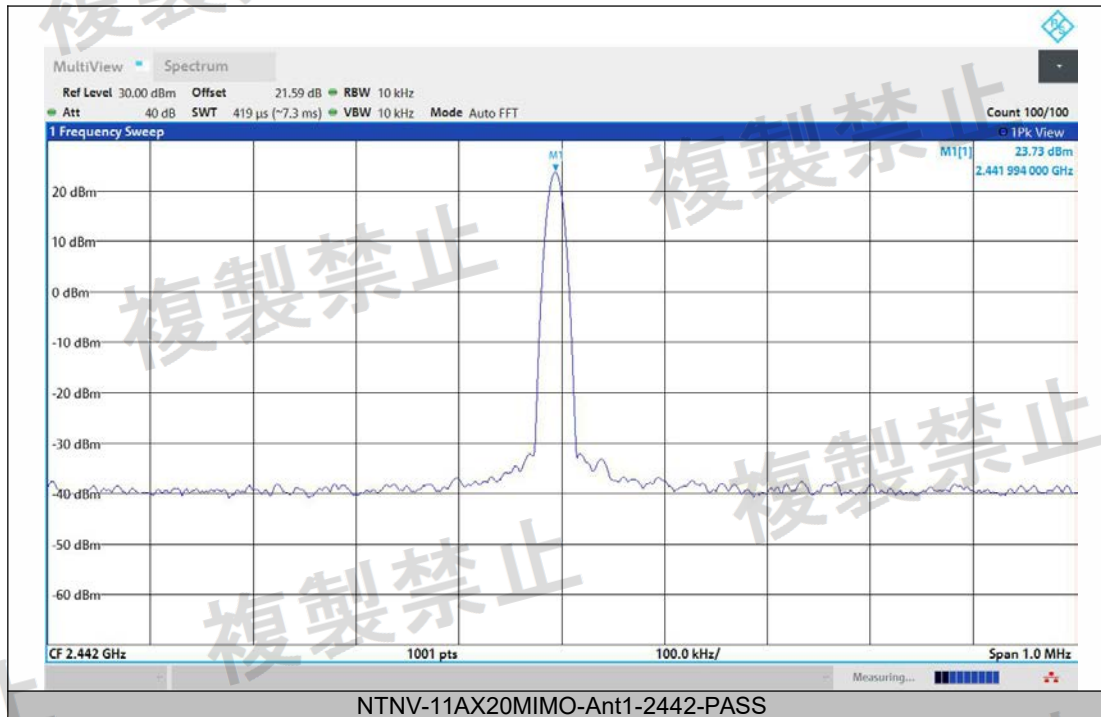


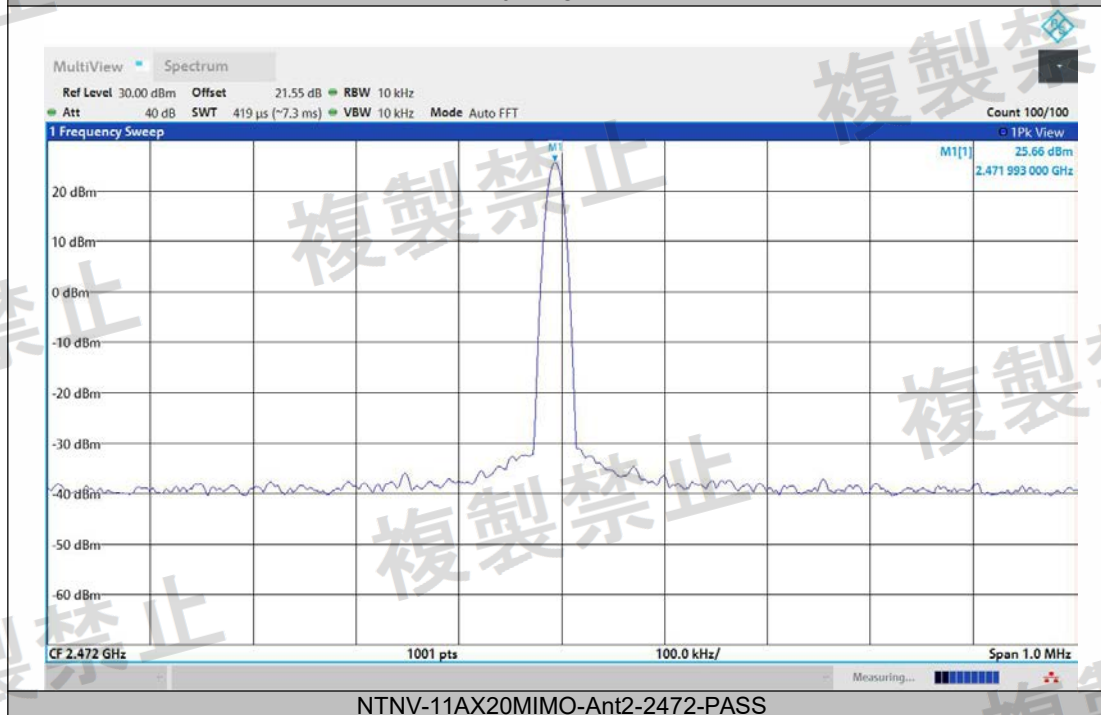
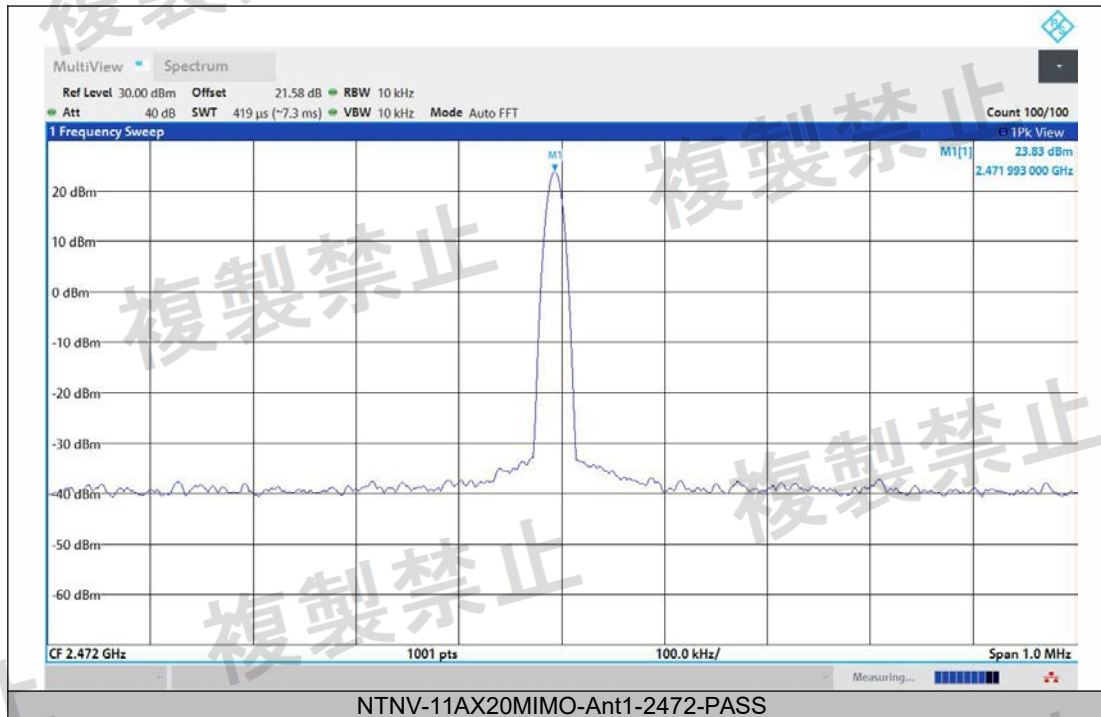


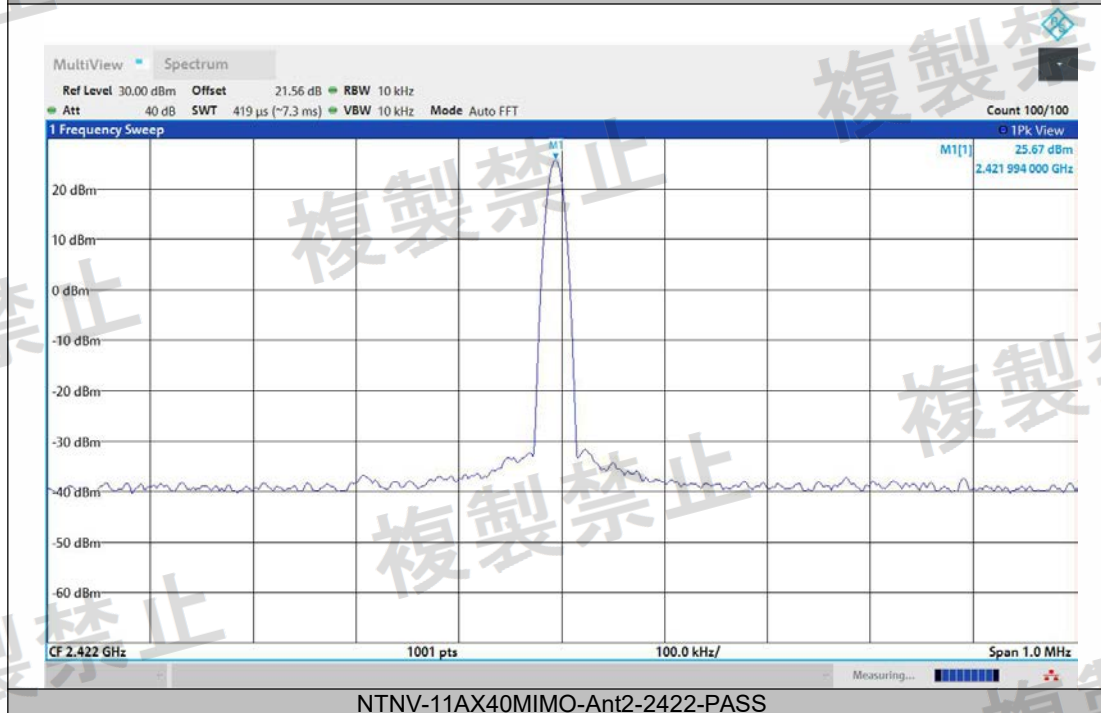
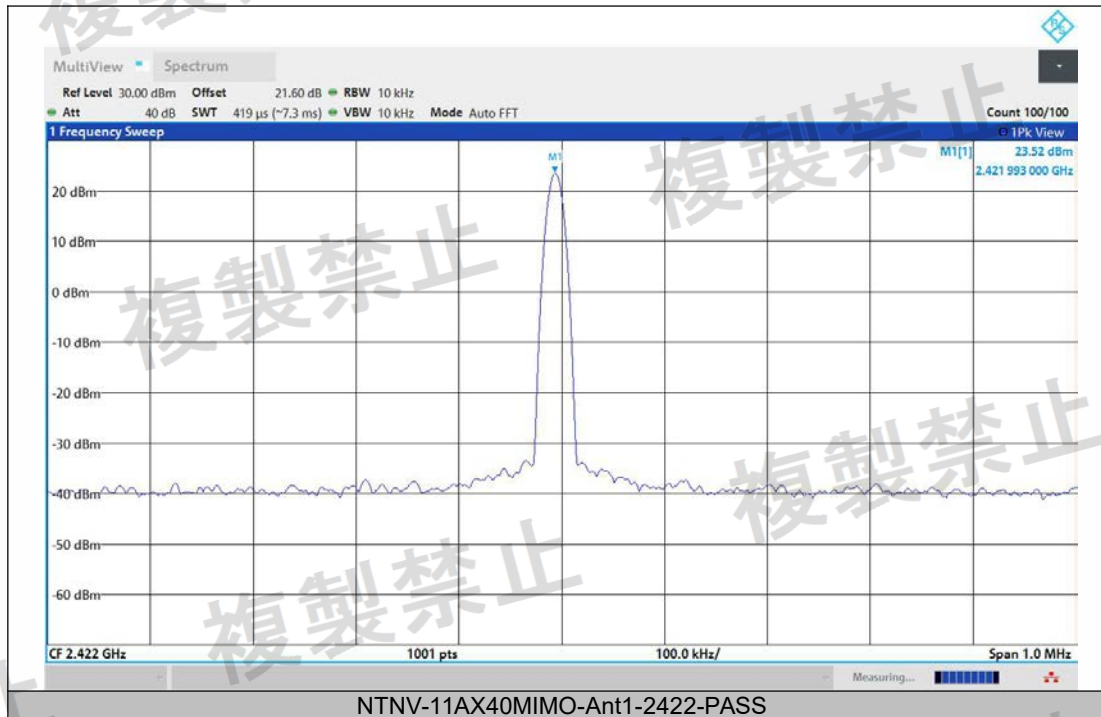


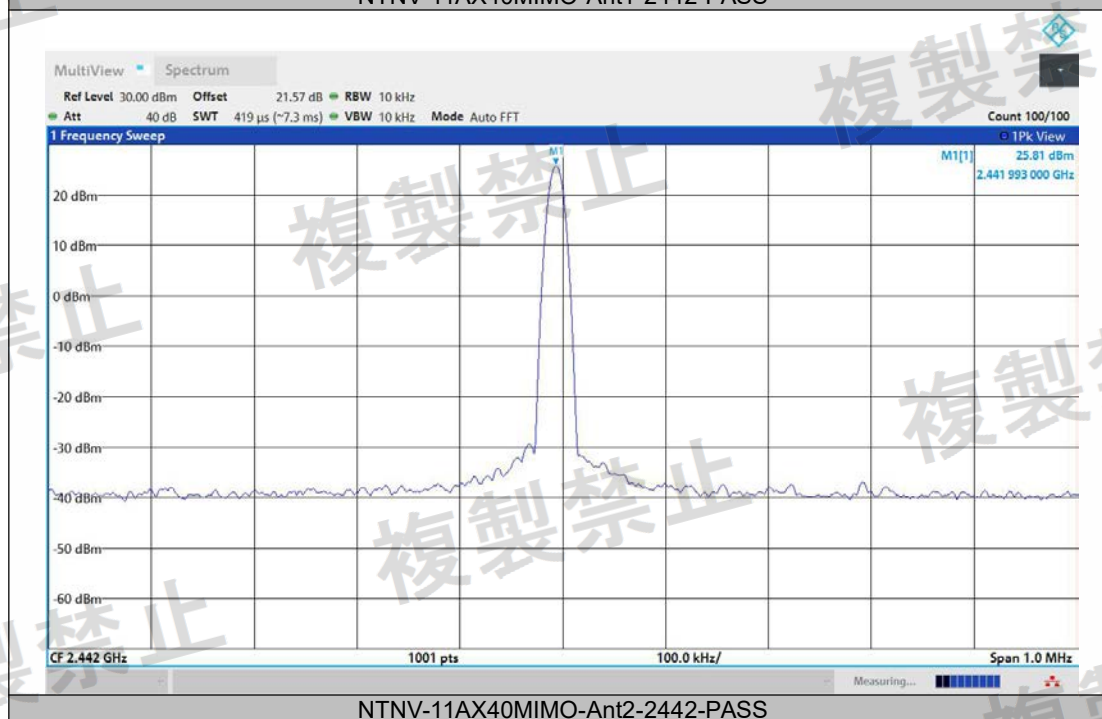
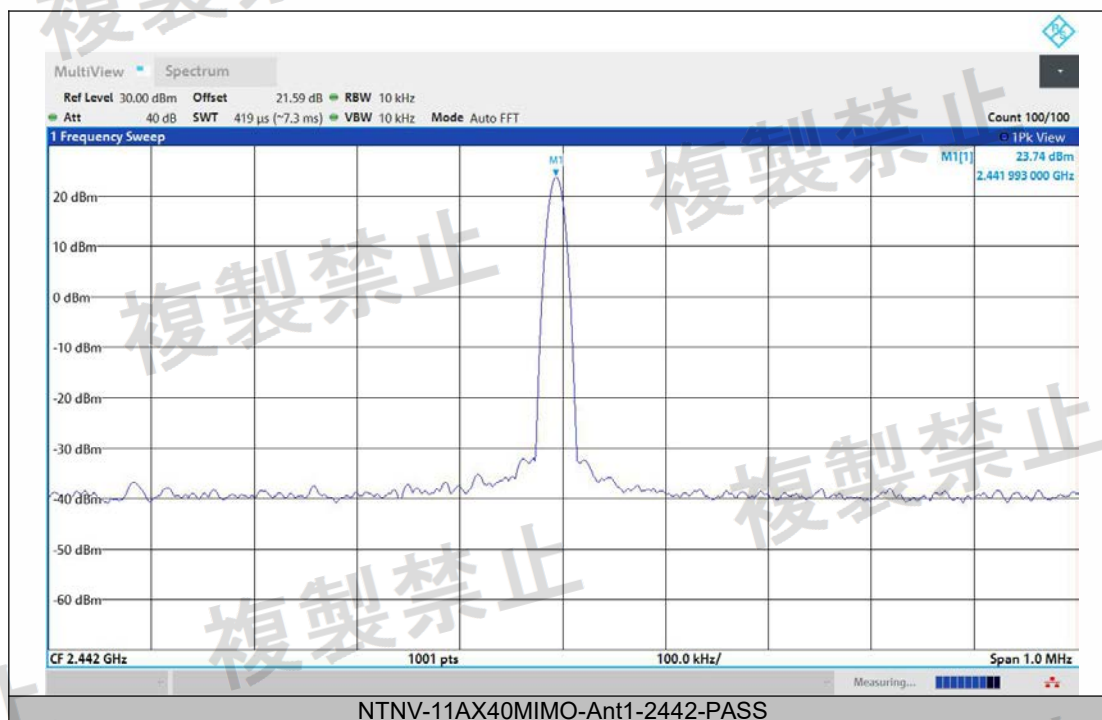


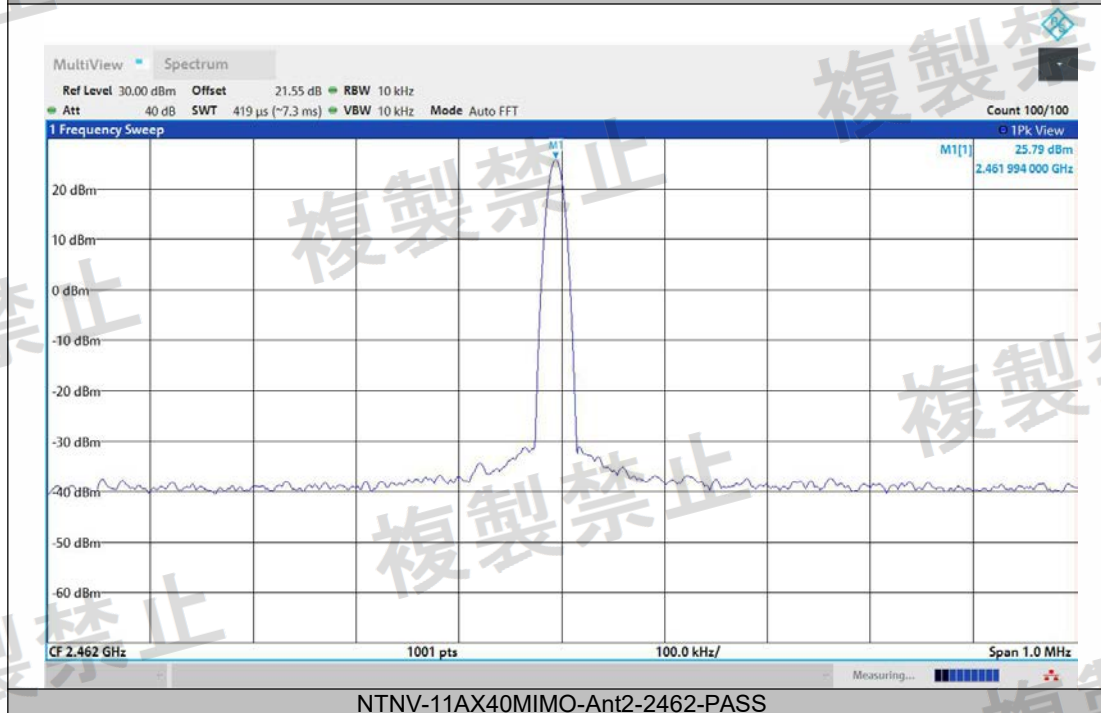
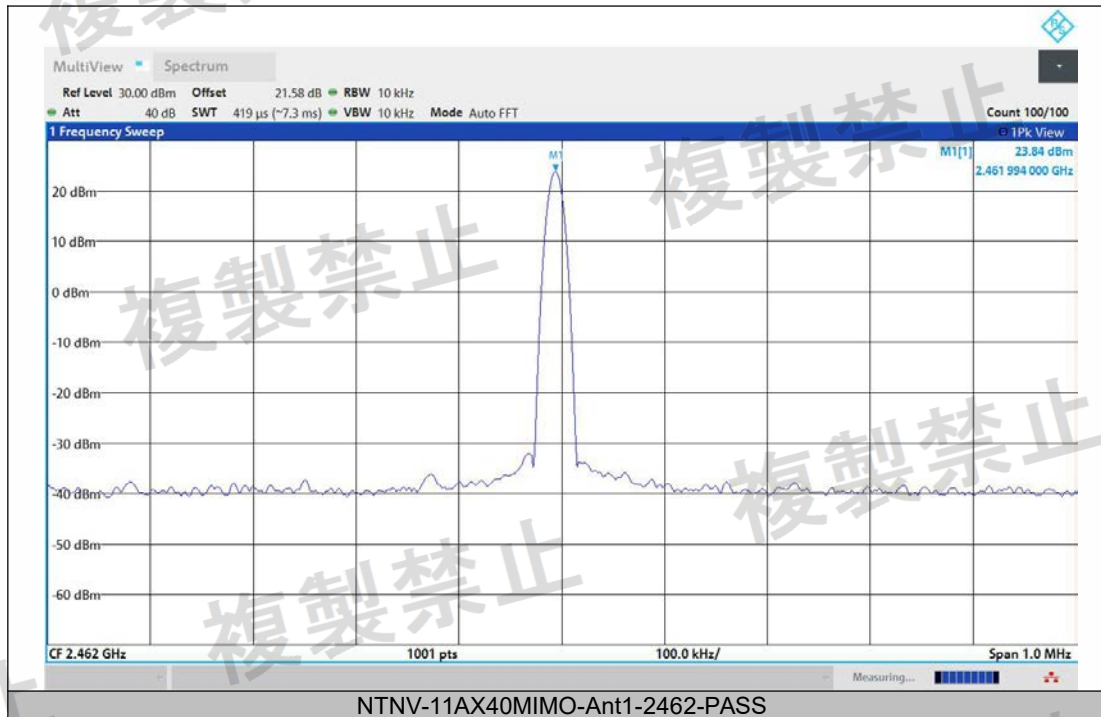


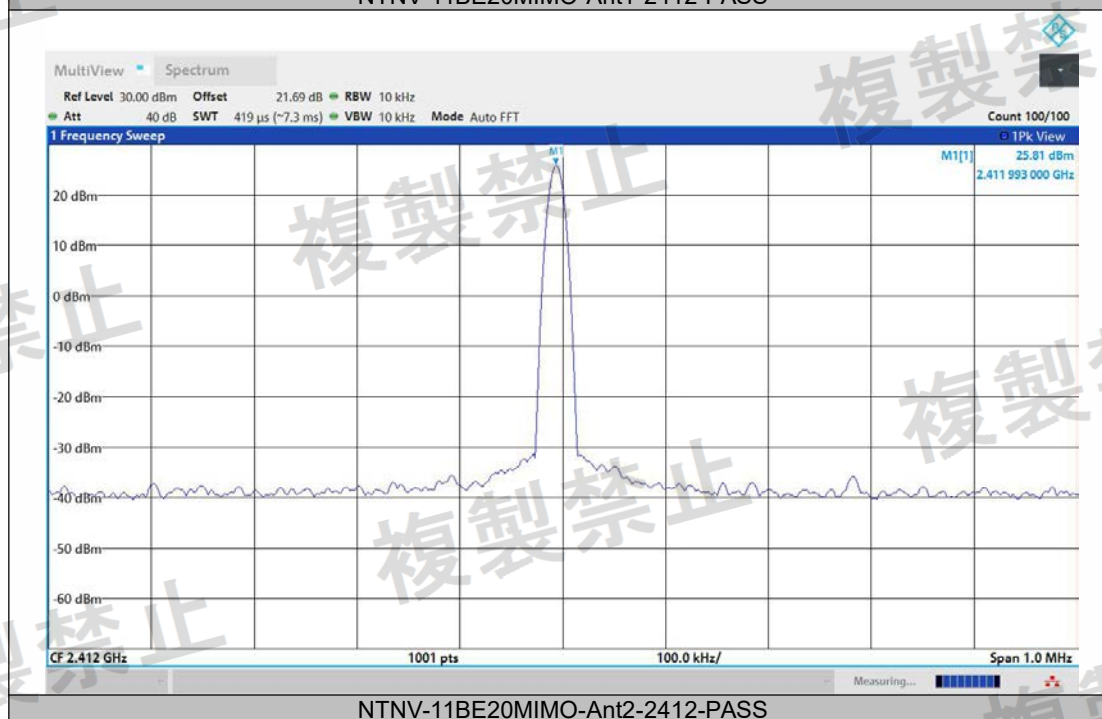
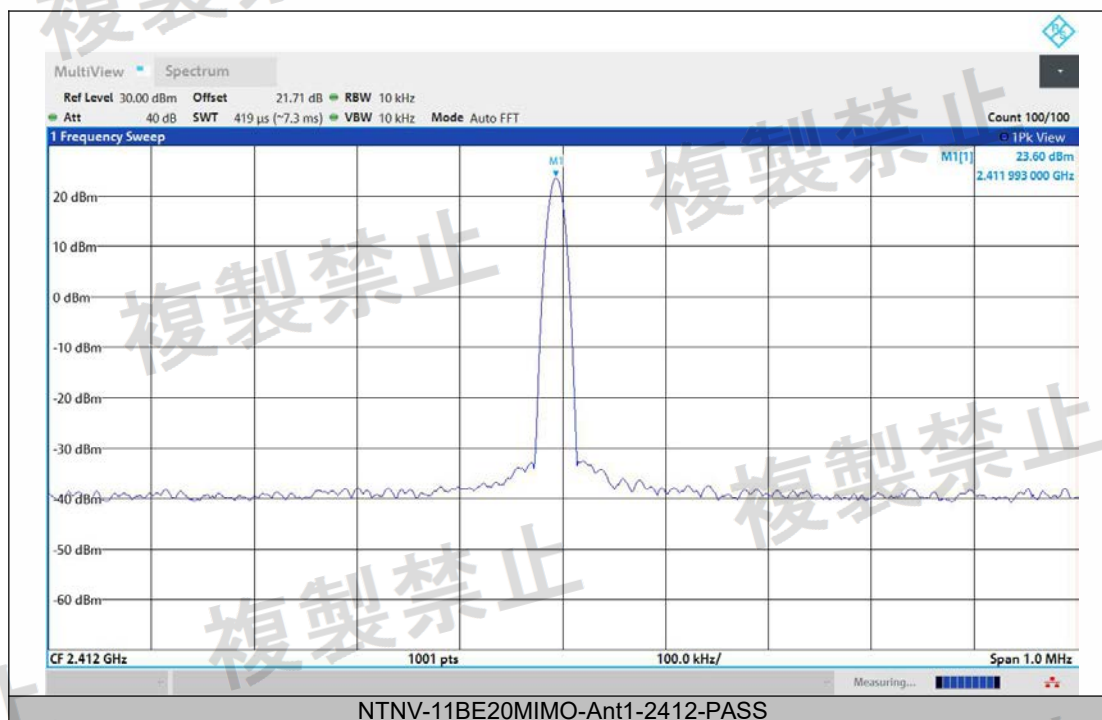


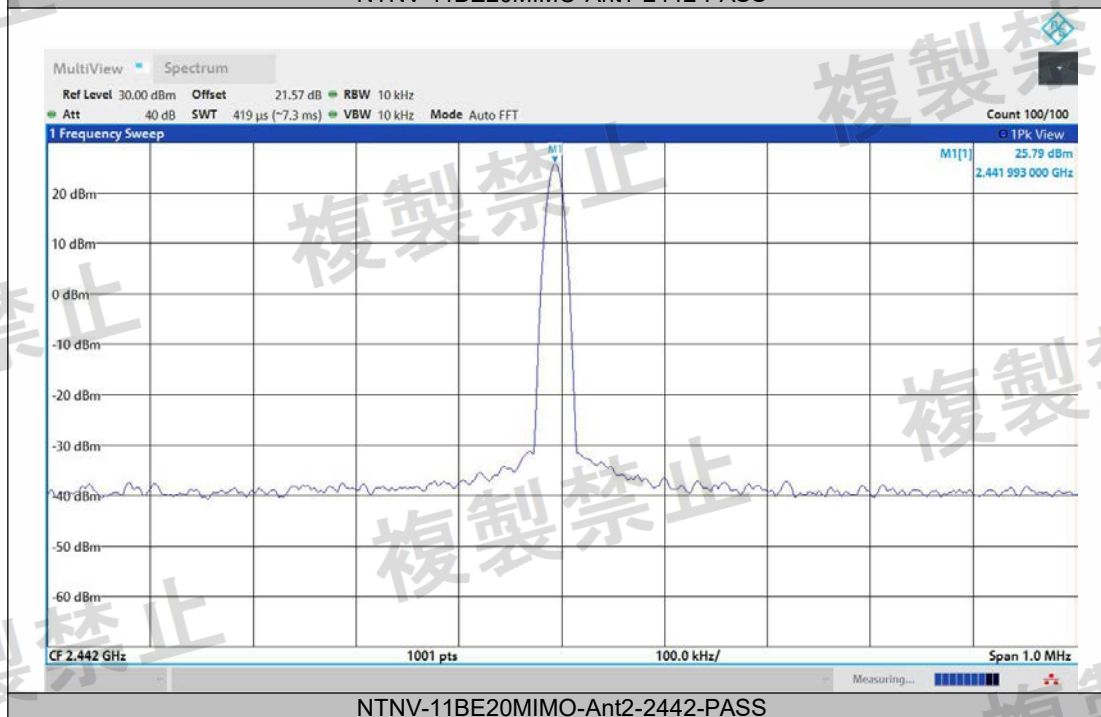
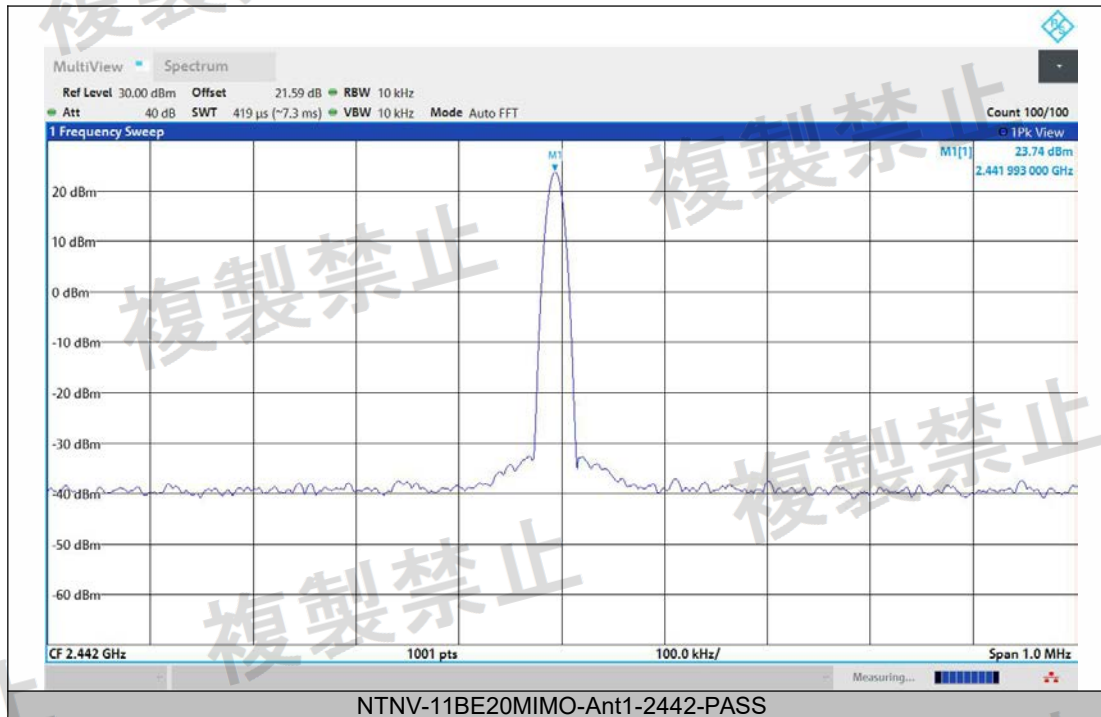


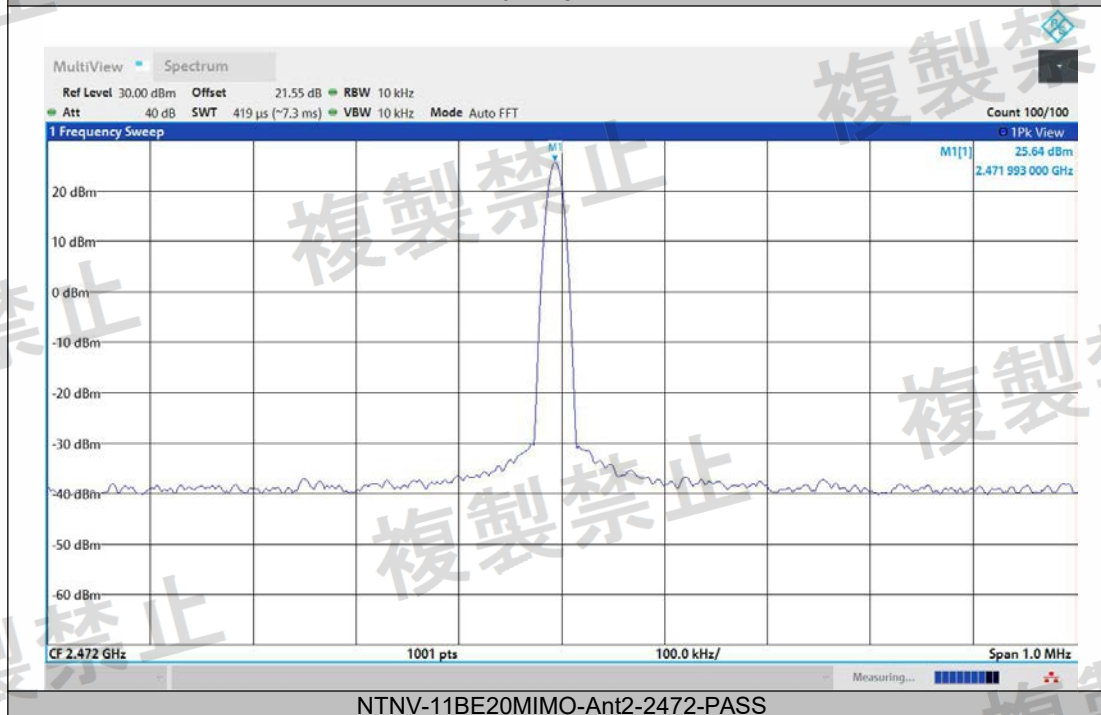
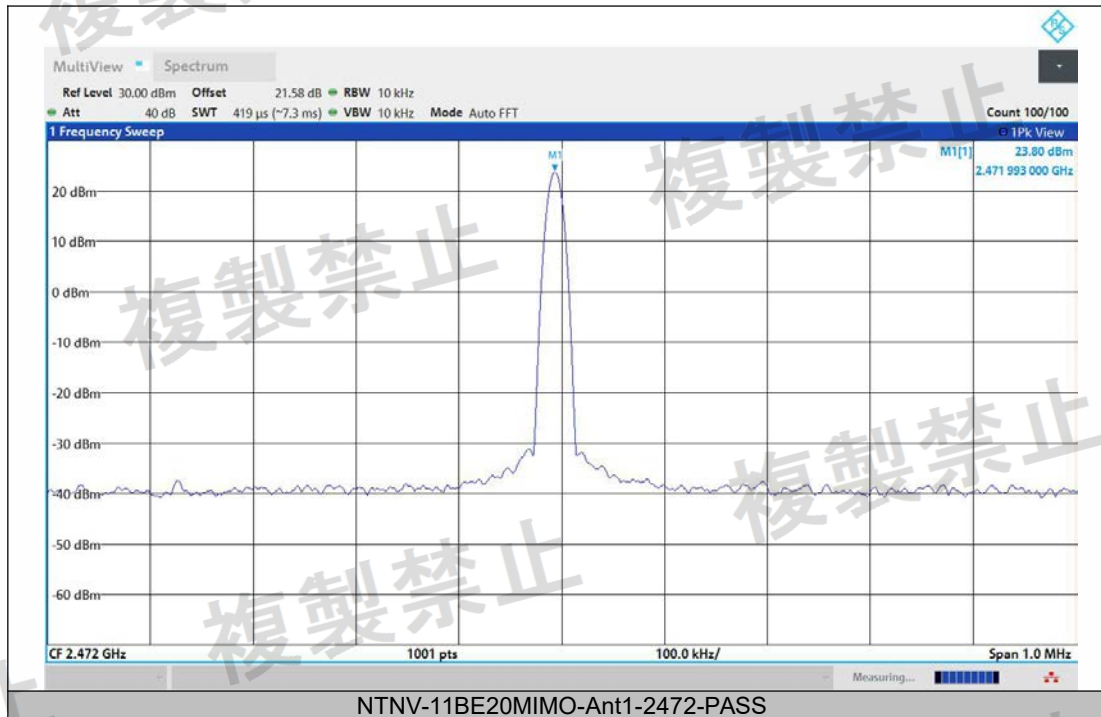


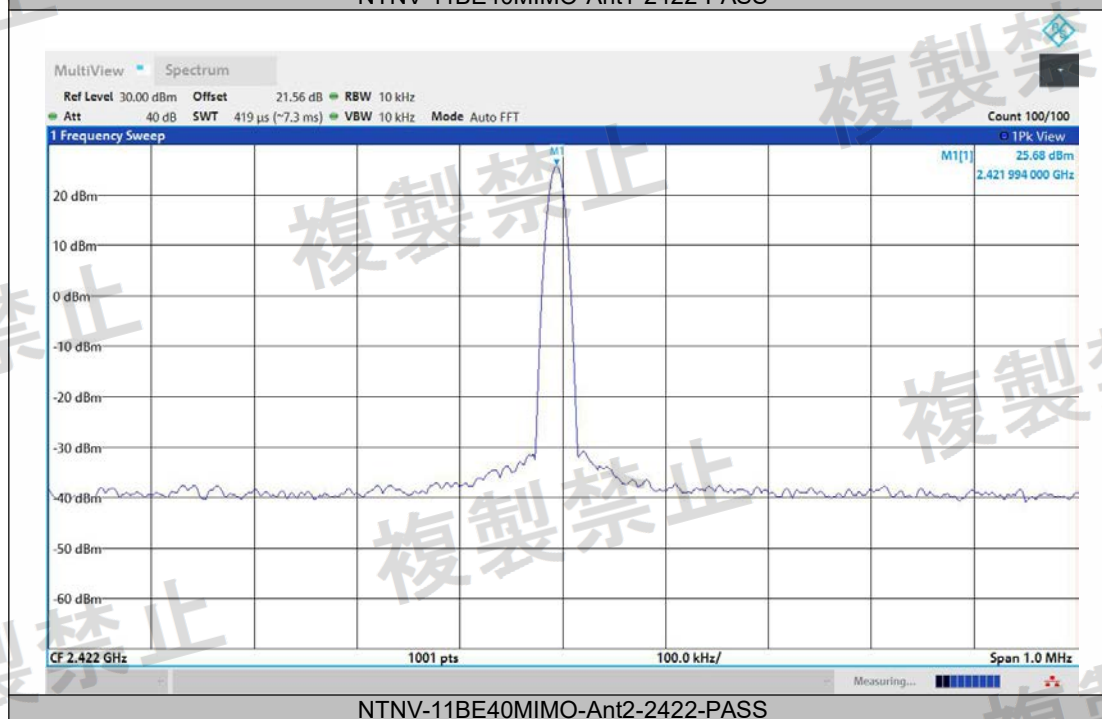
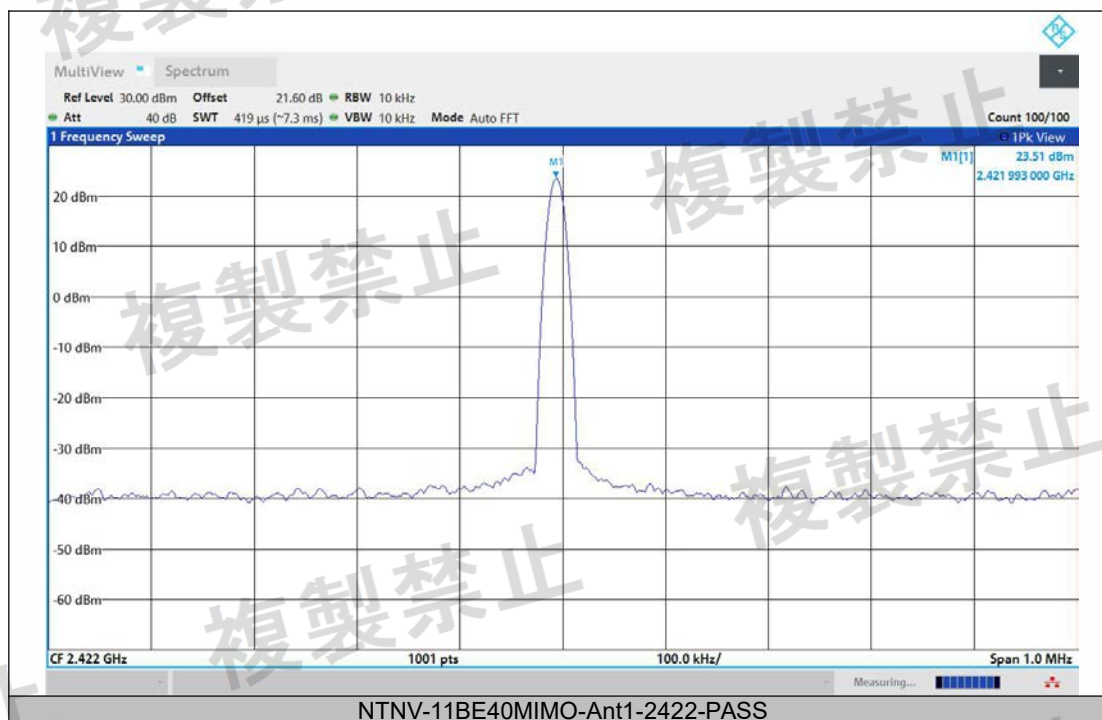


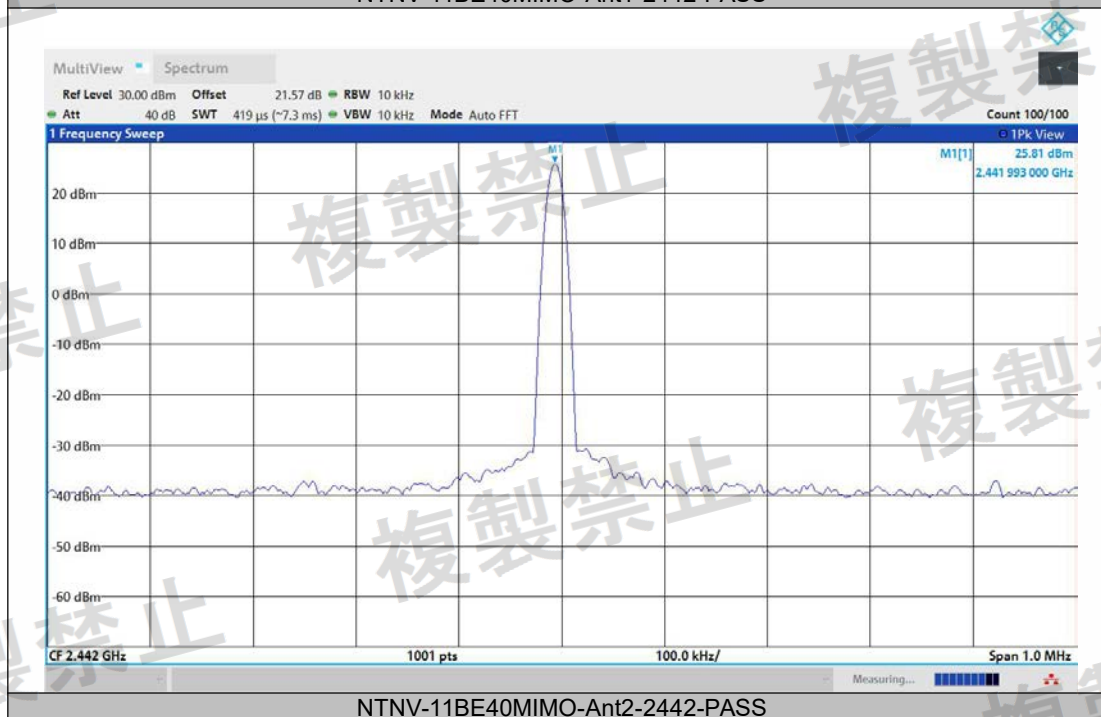
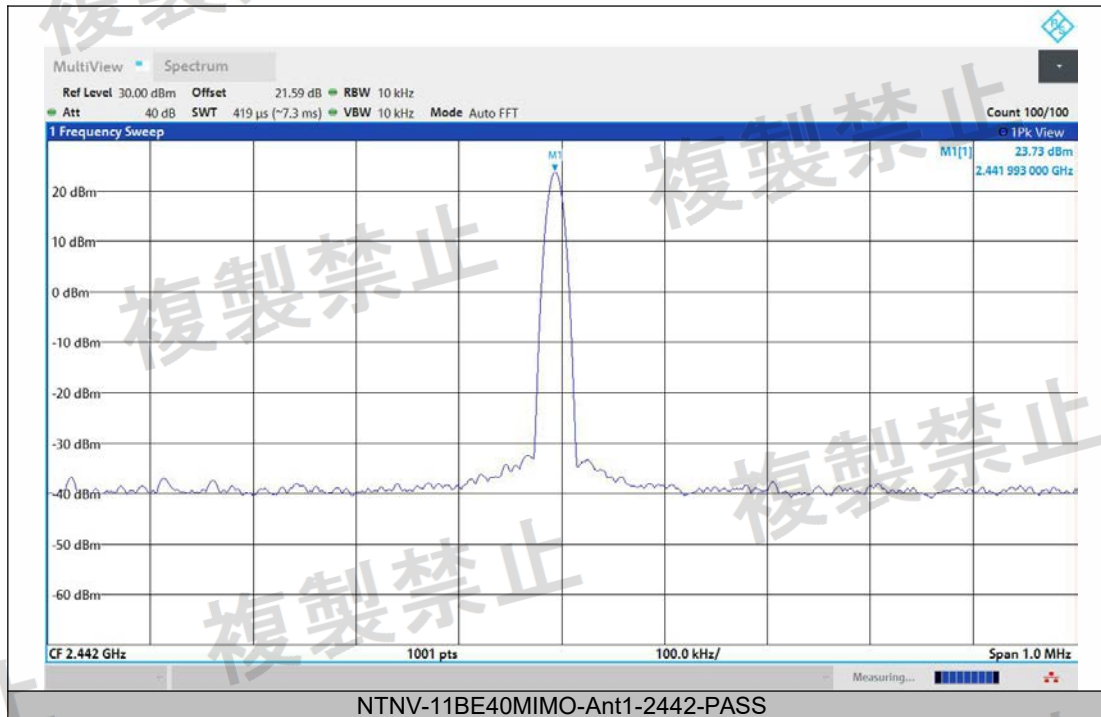


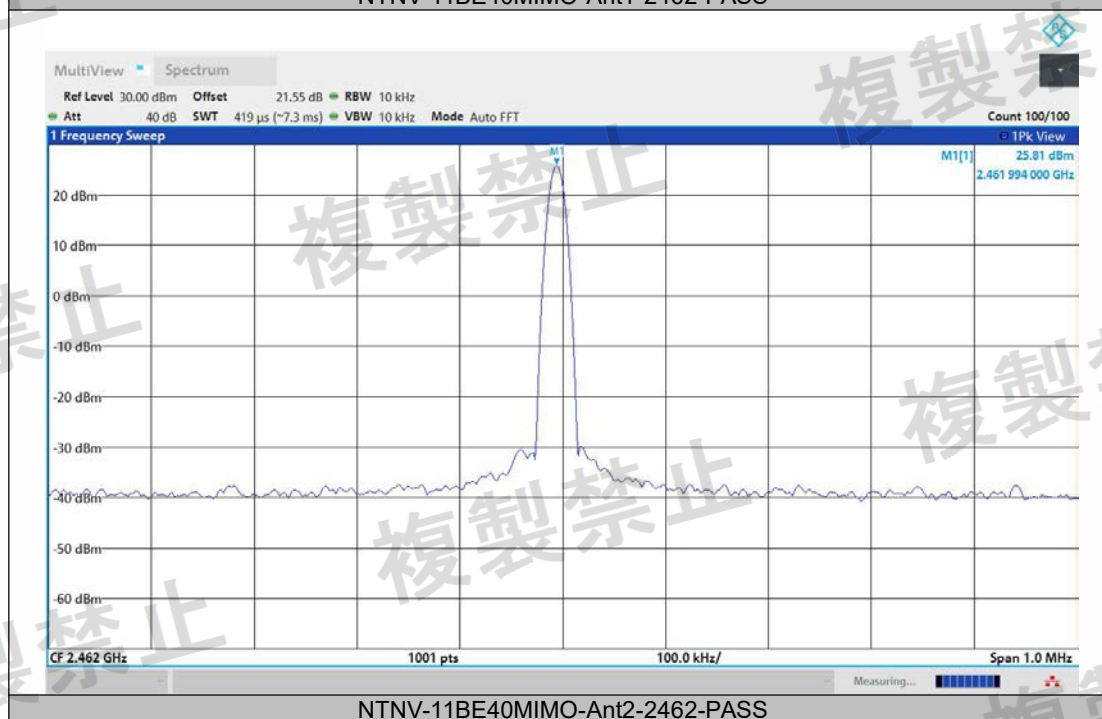
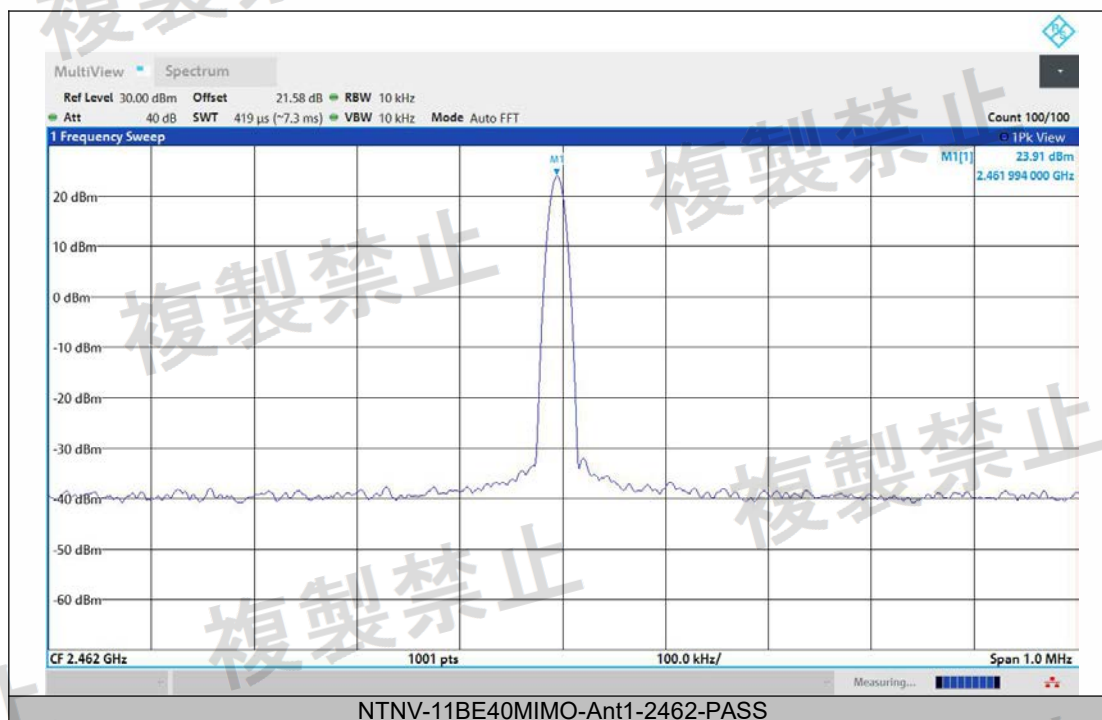












7.3 OCCUPIED BANDWIDTH (99%)&SPREADING BANDWIDTH (90%)&SPREAD FACTOR

7.3.1 Applicable Standard

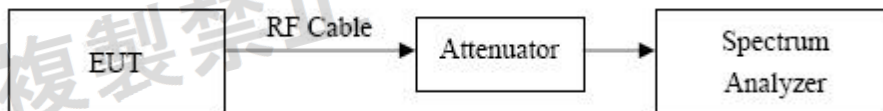
According to Item 19 of Article 2 Paragraph 1.

7.3.2 Conformance Limit

Occupied bandwidth: $FH \leq 83.5 \text{ MHz}$; $DS \leq 26 \text{ MHz}$; $OFDM \leq 38 \text{ MHz}$, Others $\leq 26 \text{ MHz}$

Spread Bandwidth: $\geq 500 \text{ kHz}$ (FH, DS), Spread factor > 5 .

7.3.3 Test Setup Block Diagram



7.3.4 Test Procedure

(1) Spectrum analyzer is set as below

Central Frequency	Test frequency
Sweeping Bandwidth	2 to 3.5 times the allowable value (SPAN=80MHz for 802.11n(HT40), SPAN=50MHz for the others)
Resolution Bandwidth	Lower than 3 % of allowable value (RBW=300kHz)
Video Bandwidth	Equivalent to resolvable bandwidth
Y-Axis Scale	10 dB/Div
Input Level	Carrier level is sufficiently higher than spectrum analyzer noise
Sweep Time	Minimum time to assure the measurement accuracy (In case of burst wave, 1 burst per 1 sample)
Sampling points	More than 400 points
Sweep Mode	Consecutive sweep
Phase-Detection Mode	Positive peak
Trigger Condition	Max-hold

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point

where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

(8) Spread Factor = Spread Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b, MR=1.5 for 802.11g/n20, MR=3 for 802.11n40.

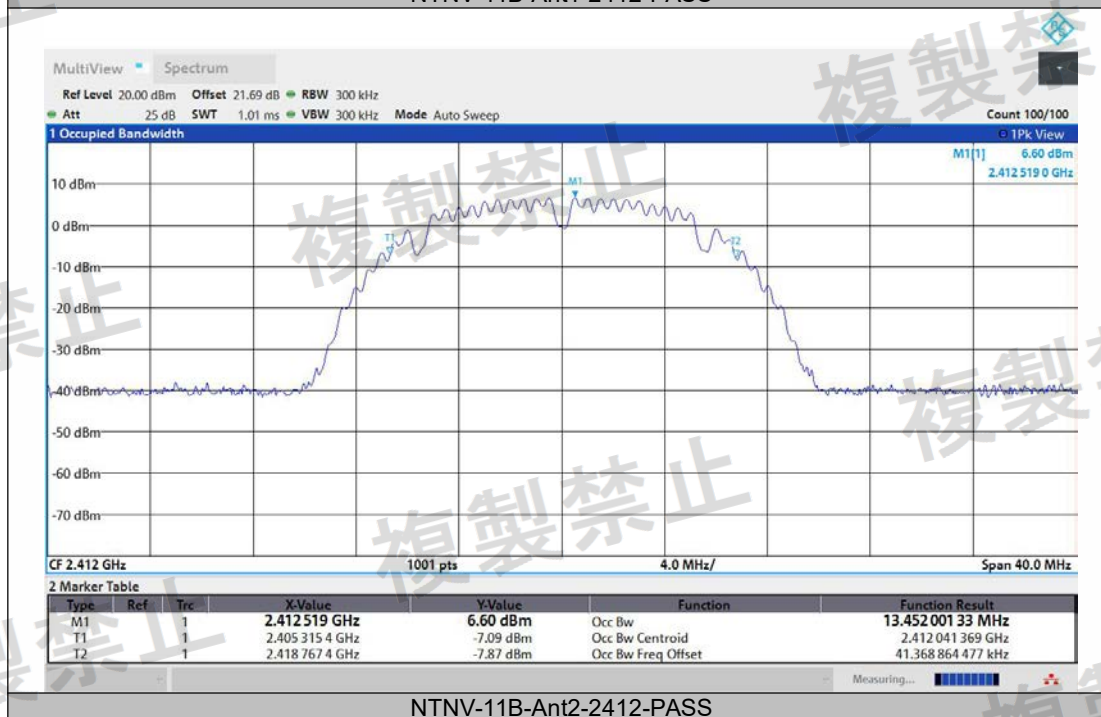
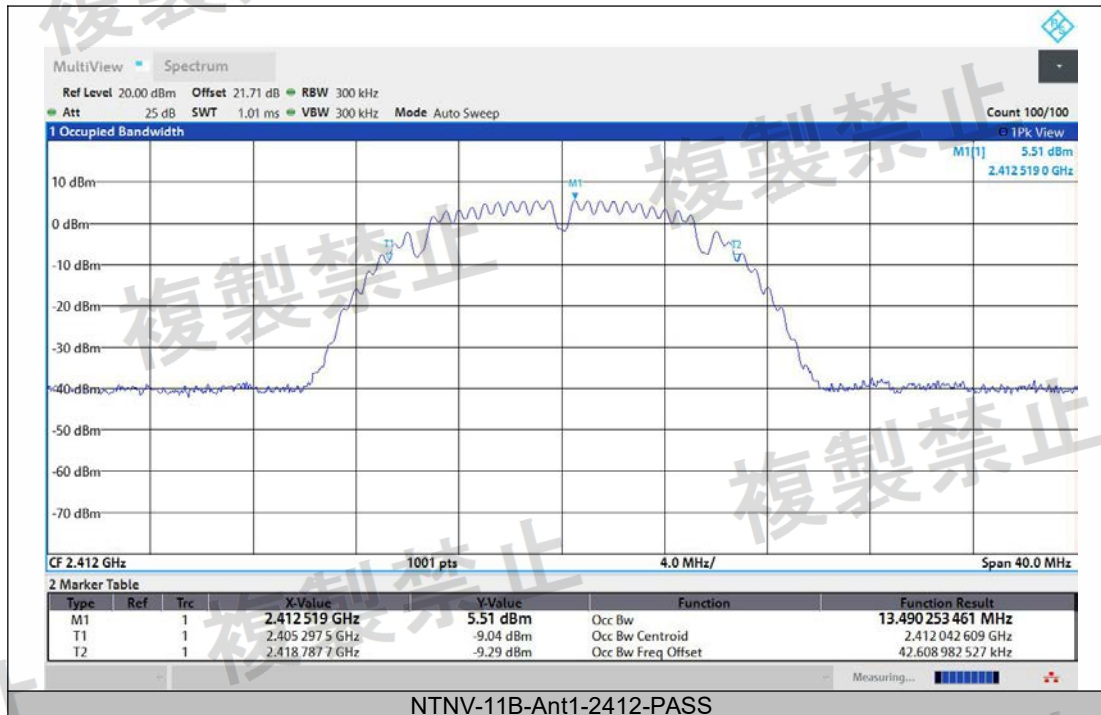
7.3.5 Environmental Conditions

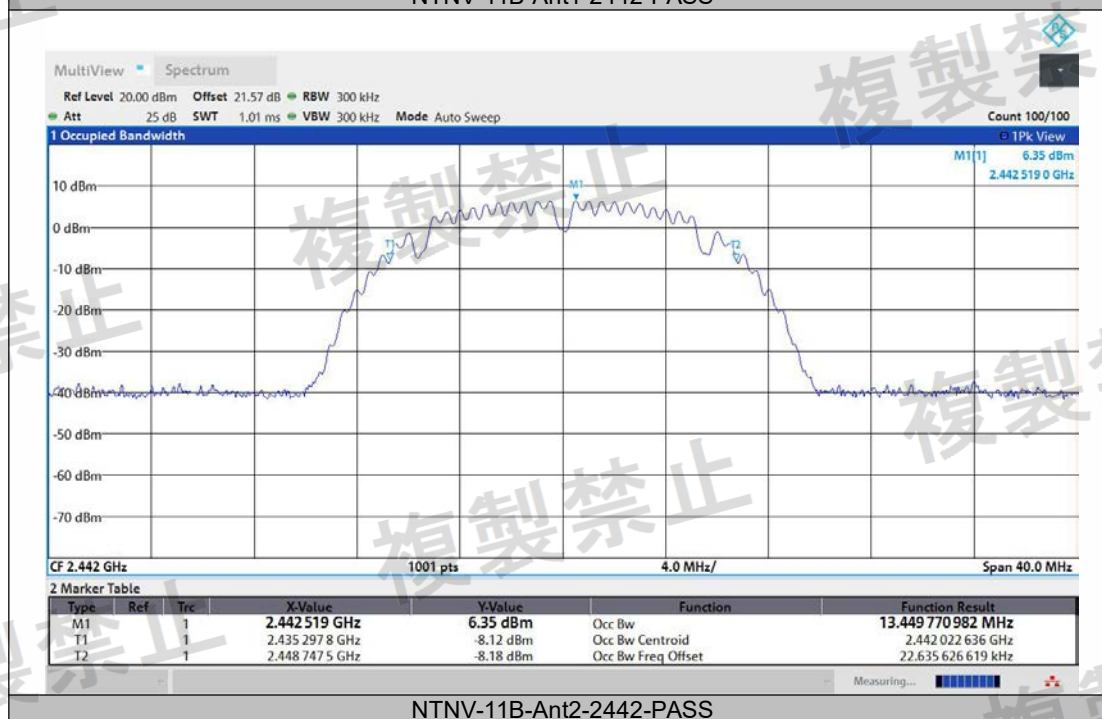
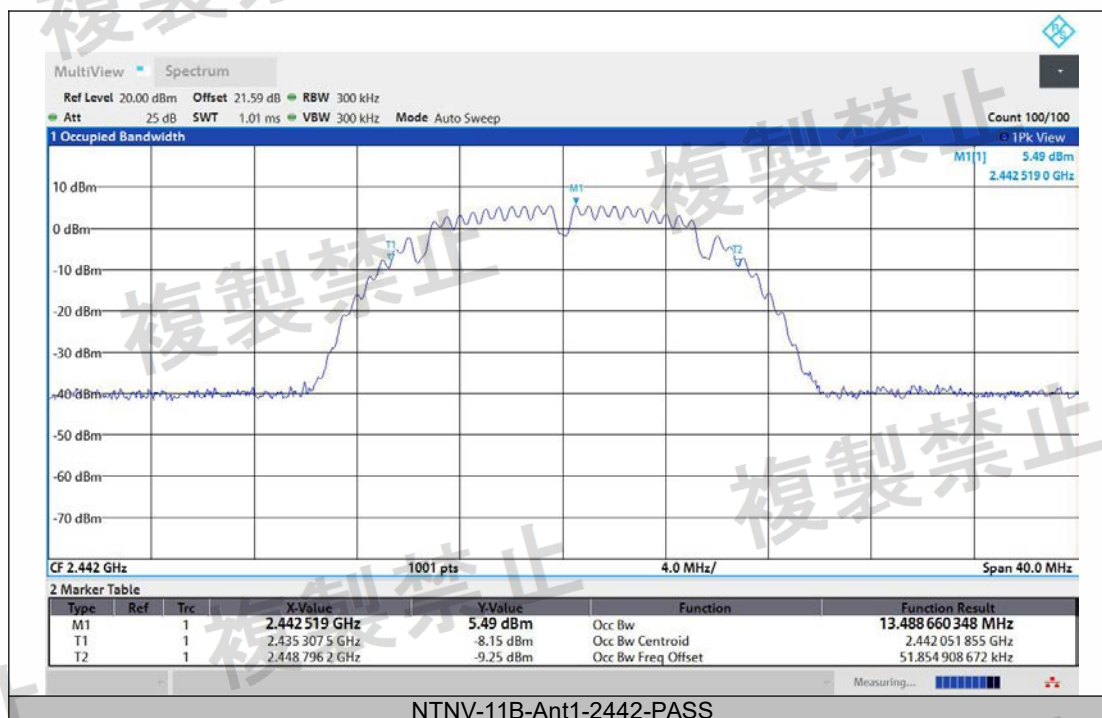
Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

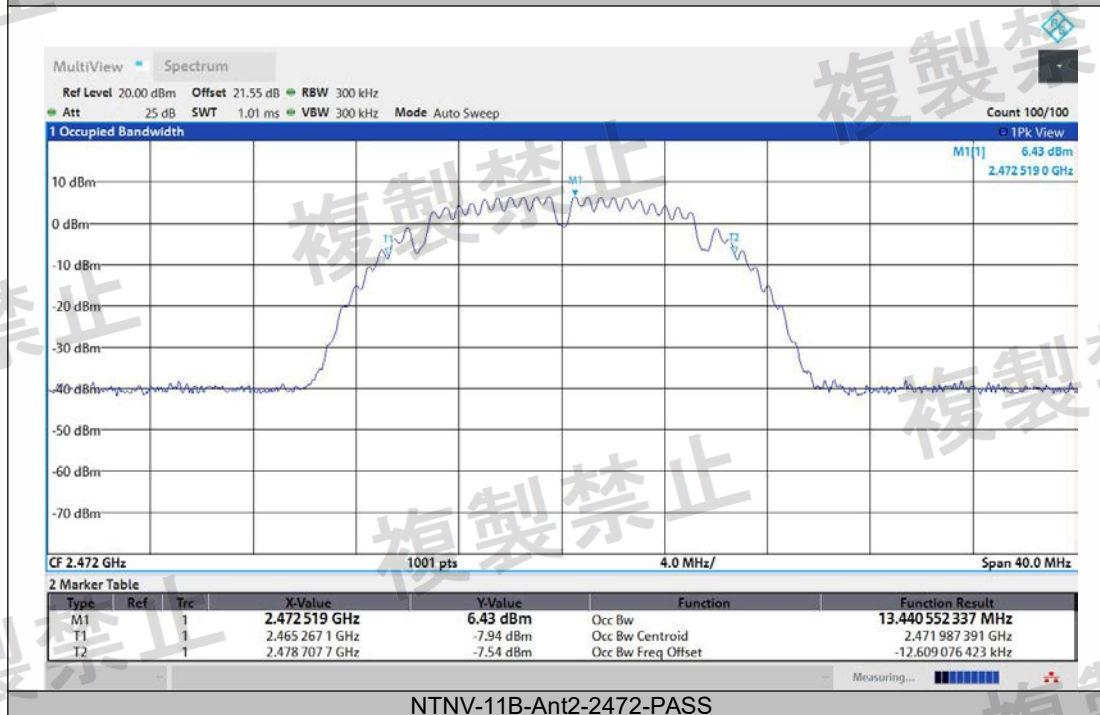
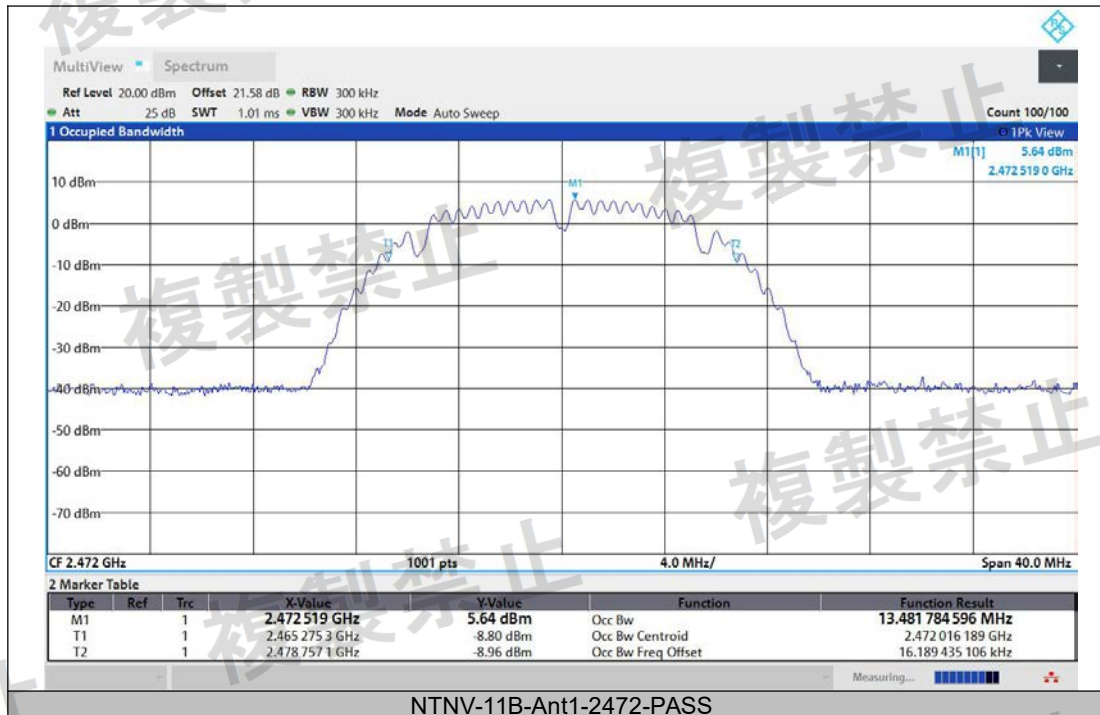
7.3.6 Test Results

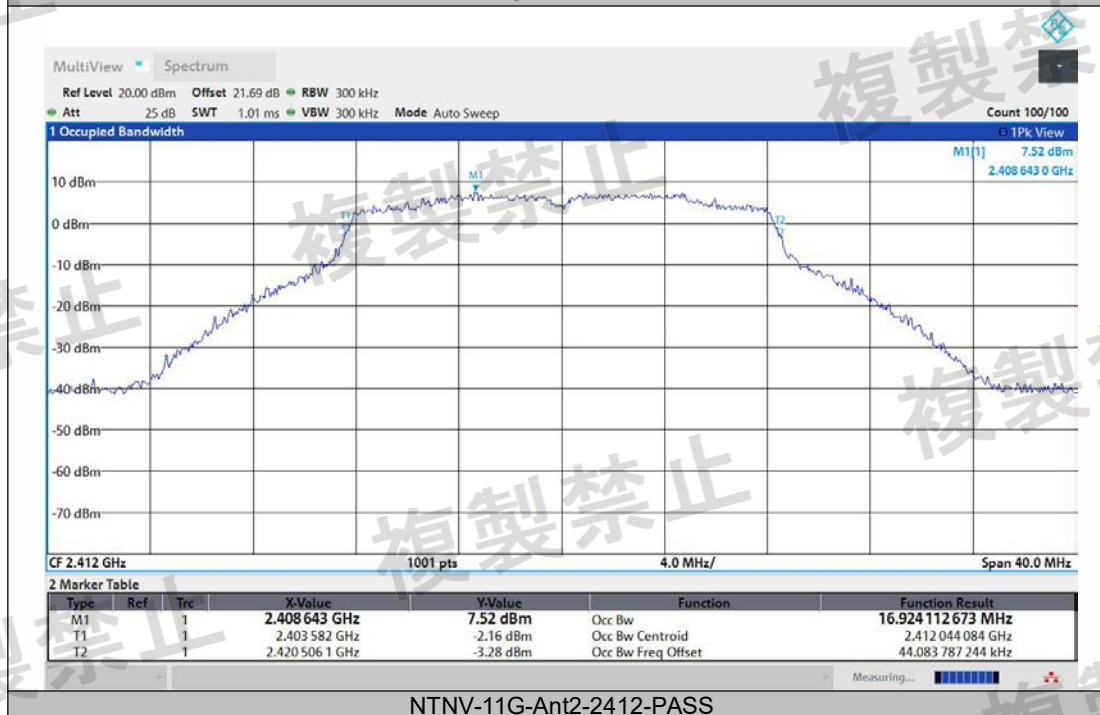
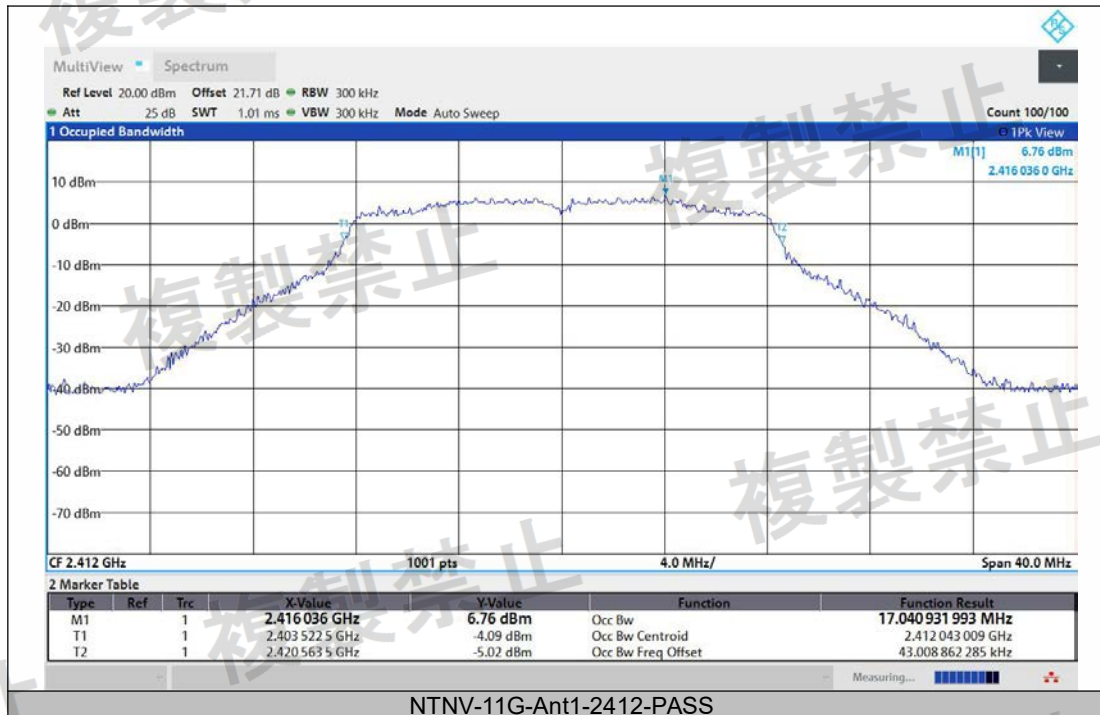
Occupied Bandwidth (99% Emission bandwidth)

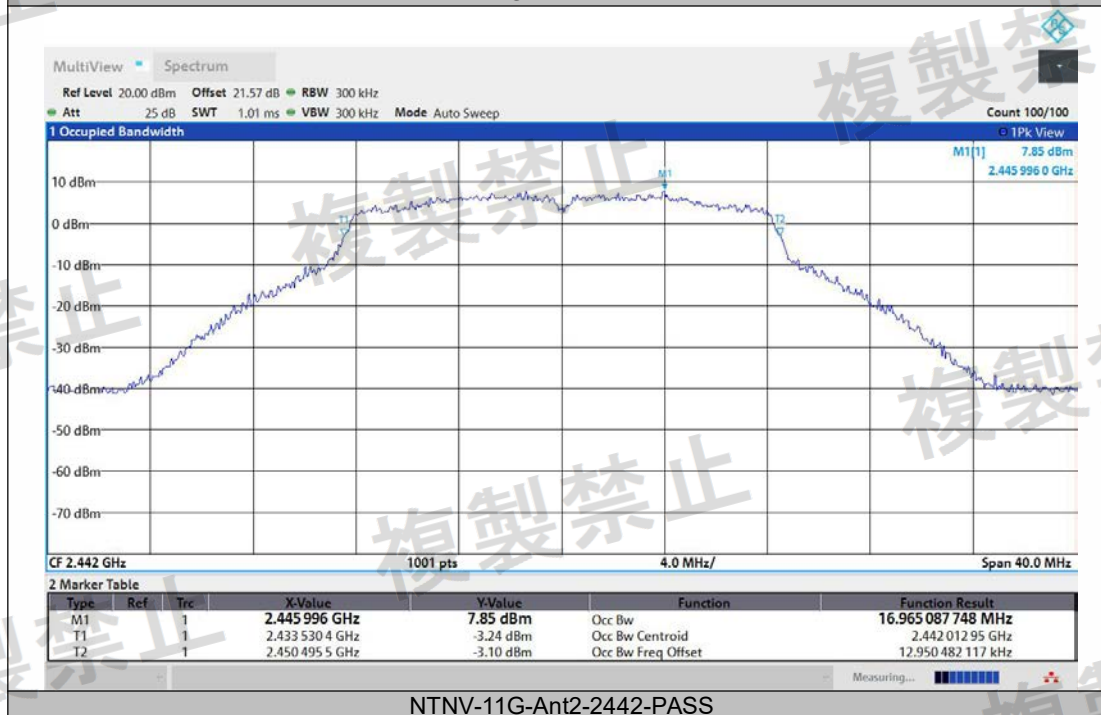
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	13.490	≤26	PASS
NTNV	11B	Ant2	2412	13.452	≤26	PASS
NTNV	11B	Ant1	2442	13.489	≤26	PASS
NTNV	11B	Ant2	2442	13.450	≤26	PASS
NTNV	11B	Ant1	2472	13.482	≤26	PASS
NTNV	11B	Ant2	2472	13.441	≤26	PASS
NTNV	11G	Ant1	2412	17.041	≤26	PASS
NTNV	11G	Ant2	2412	16.924	≤26	PASS
NTNV	11G	Ant1	2442	17.011	≤26	PASS
NTNV	11G	Ant2	2442	16.965	≤26	PASS
NTNV	11G	Ant1	2472	16.532	≤26	PASS
NTNV	11G	Ant2	2472	16.517	≤26	PASS
NTNV	11N20MIMO	Ant1	2412	18.028	≤26	PASS
NTNV	11N20MIMO	Ant2	2412	17.979	≤26	PASS
NTNV	11N20MIMO	Ant1	2442	18.036	≤26	PASS
NTNV	11N20MIMO	Ant2	2442	17.995	≤26	PASS
NTNV	11N20MIMO	Ant1	2472	17.651	≤26	PASS
NTNV	11N20MIMO	Ant2	2472	17.651	≤26	PASS
NTNV	11N40MIMO	Ant1	2422	36.092	26-40	PASS
NTNV	11N40MIMO	Ant2	2422	36.077	26-40	PASS
NTNV	11N40MIMO	Ant1	2442	36.106	26-40	PASS
NTNV	11N40MIMO	Ant2	2442	36.082	26-40	PASS
NTNV	11N40MIMO	Ant1	2462	36.193	26-40	PASS
NTNV	11N40MIMO	Ant2	2462	36.168	26-40	PASS
NTNV	11AX20MIMO	Ant1	2412	18.971	≤26	PASS
NTNV	11AX20MIMO	Ant2	2412	18.994	≤26	PASS
NTNV	11AX20MIMO	Ant1	2442	18.961	≤26	PASS
NTNV	11AX20MIMO	Ant2	2442	18.956	≤26	PASS
NTNV	11AX20MIMO	Ant1	2472	18.773	≤26	PASS
NTNV	11AX20MIMO	Ant2	2472	18.762	≤26	PASS
NTNV	11AX40MIMO	Ant1	2422	37.616	26-40	PASS
NTNV	11AX40MIMO	Ant2	2422	37.602	26-40	PASS
NTNV	11AX40MIMO	Ant1	2442	37.552	26-40	PASS
NTNV	11AX40MIMO	Ant2	2442	37.607	26-40	PASS
NTNV	11AX40MIMO	Ant1	2462	37.644	26-40	PASS
NTNV	11AX40MIMO	Ant2	2462	37.625	26-40	PASS
NTNV	11BE20MIMO	Ant1	2412	18.973	≤26	PASS
NTNV	11BE20MIMO	Ant2	2412	18.970	≤26	PASS
NTNV	11BE20MIMO	Ant1	2442	18.956	≤26	PASS
NTNV	11BE20MIMO	Ant2	2442	18.999	≤26	PASS
NTNV	11BE20MIMO	Ant1	2472	18.752	≤26	PASS
NTNV	11BE20MIMO	Ant2	2472	18.751	≤26	PASS
NTNV	11BE40MIMO	Ant1	2422	37.596	26-40	PASS
NTNV	11BE40MIMO	Ant2	2422	37.562	26-40	PASS
NTNV	11BE40MIMO	Ant1	2442	37.626	26-40	PASS
NTNV	11BE40MIMO	Ant2	2442	37.555	26-40	PASS
NTNV	11BE40MIMO	Ant1	2462	37.645	26-40	PASS
NTNV	11BE40MIMO	Ant2	2462	37.627	26-40	PASS

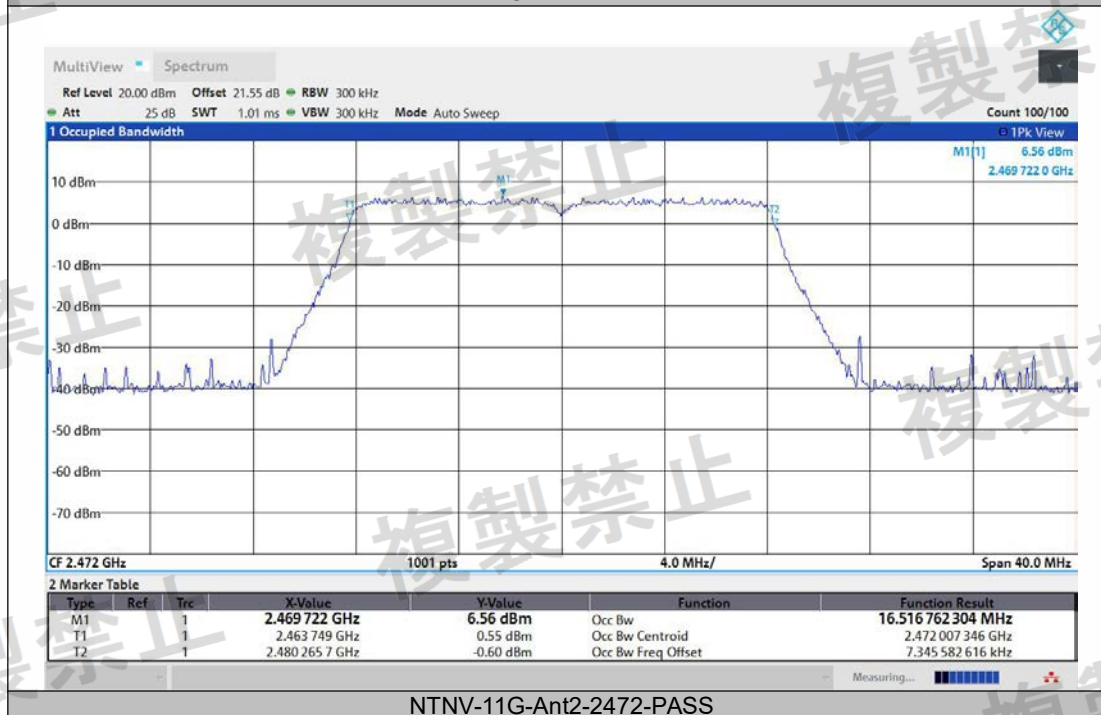
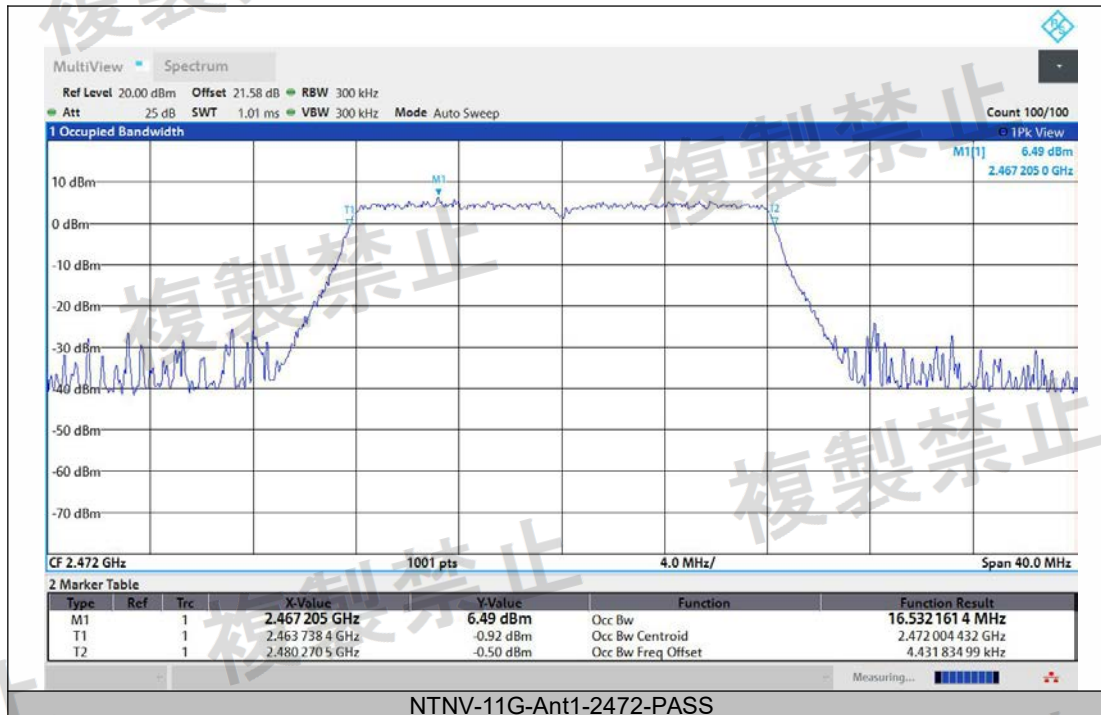


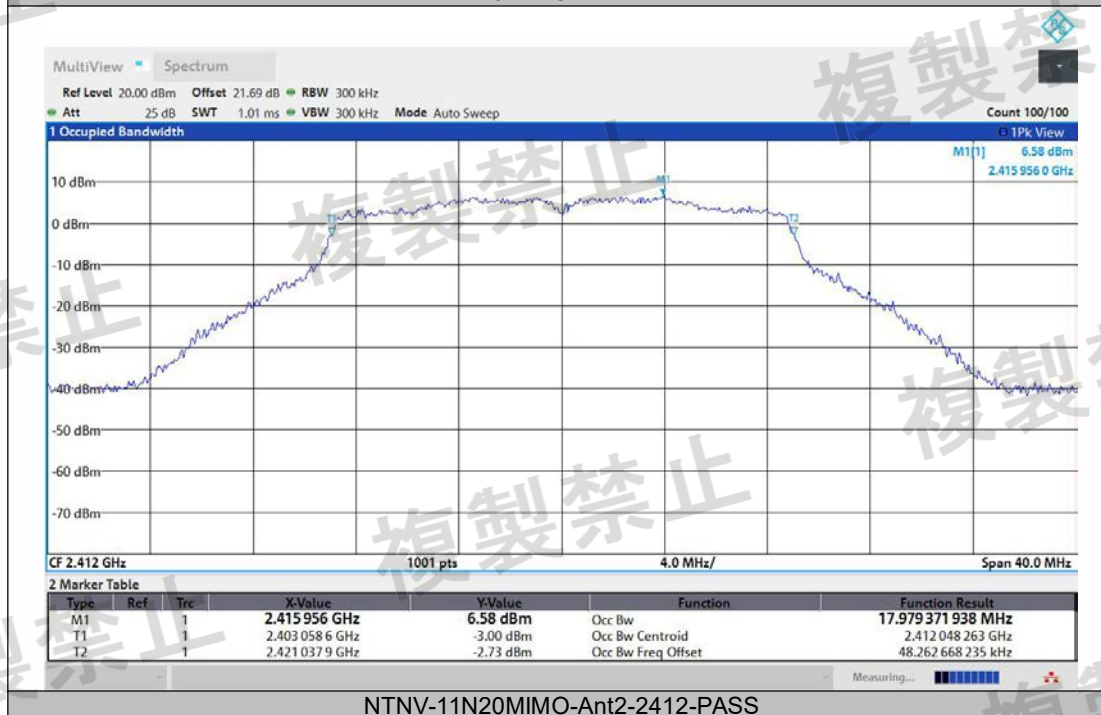


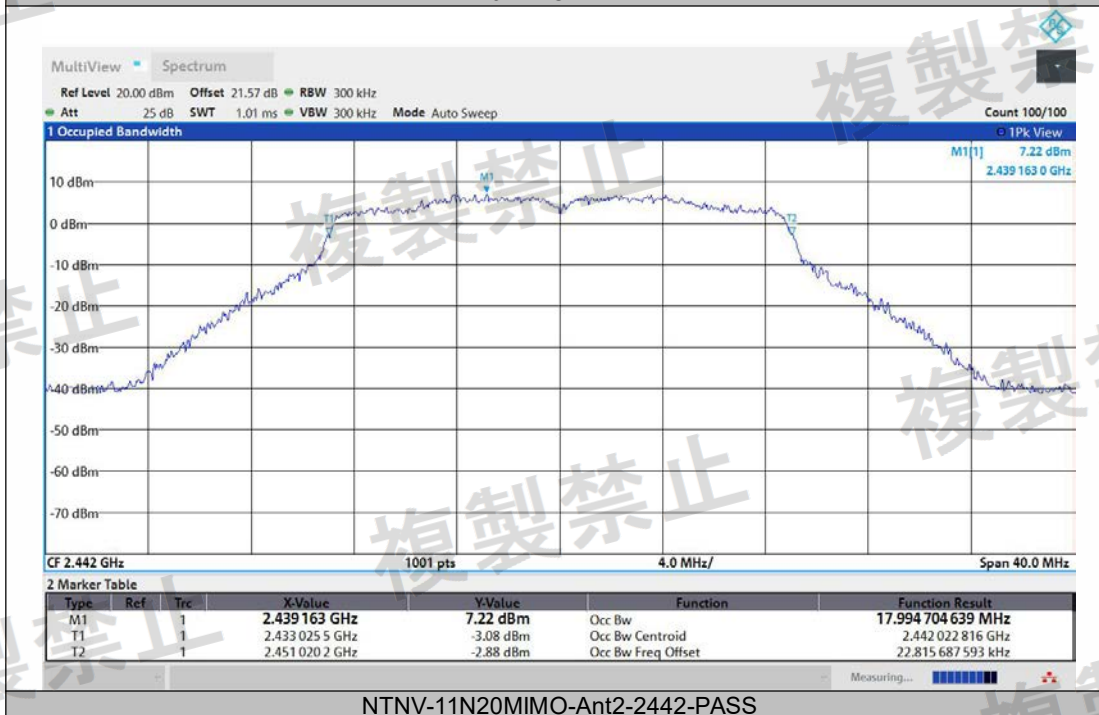
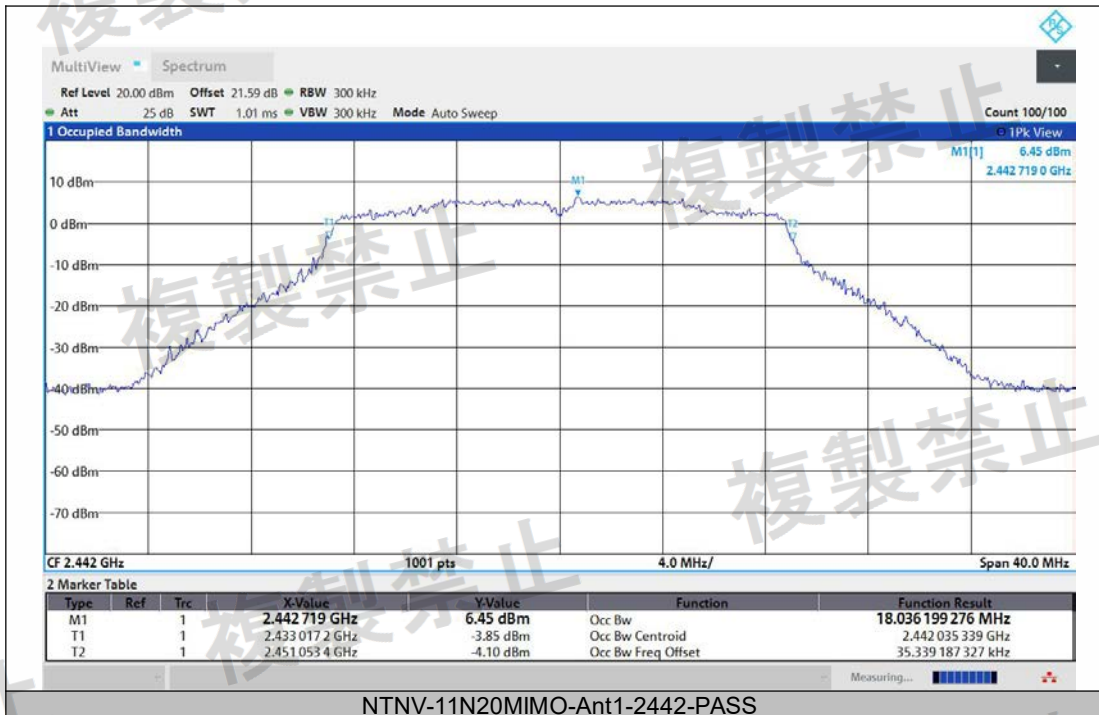


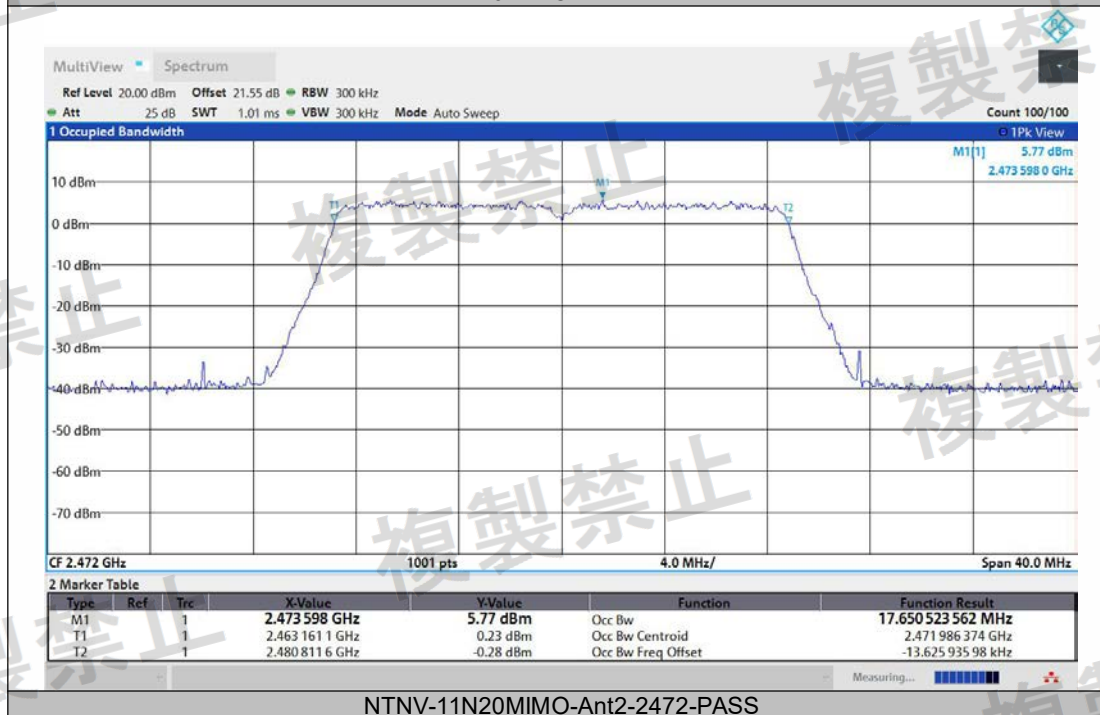
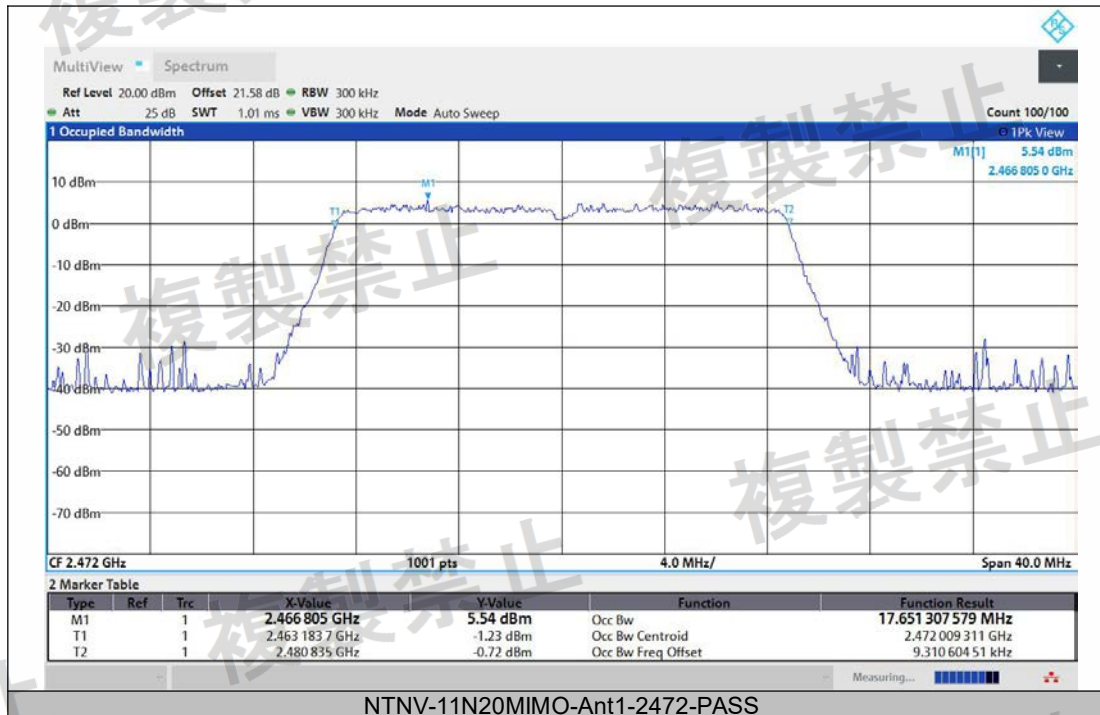


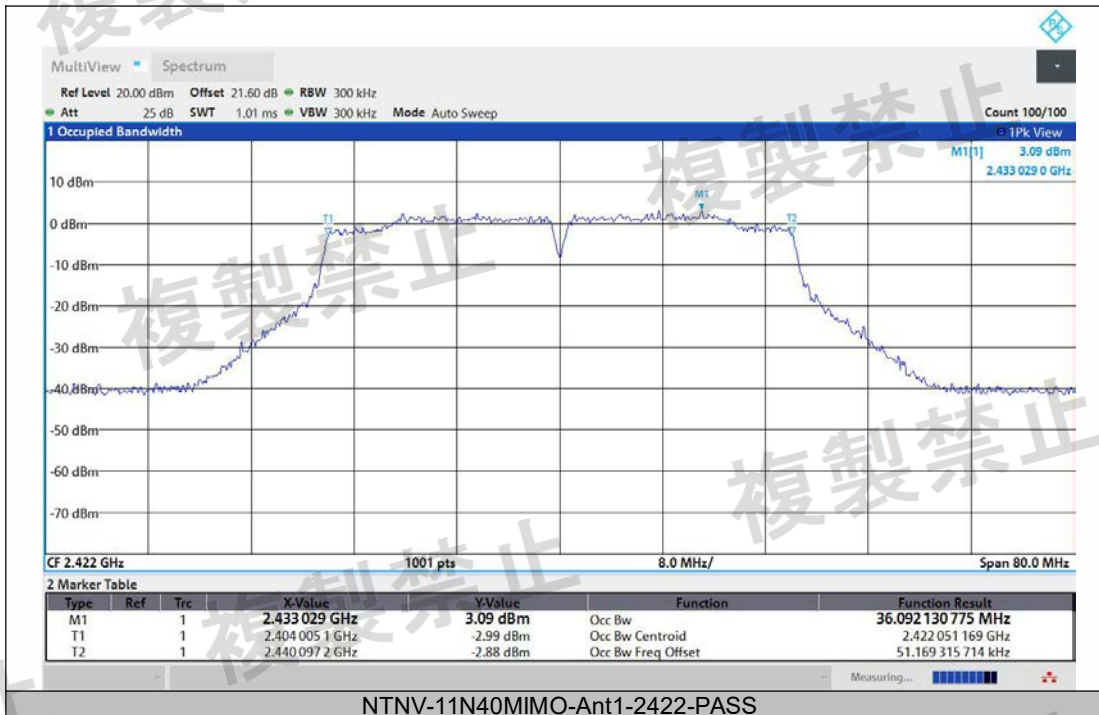


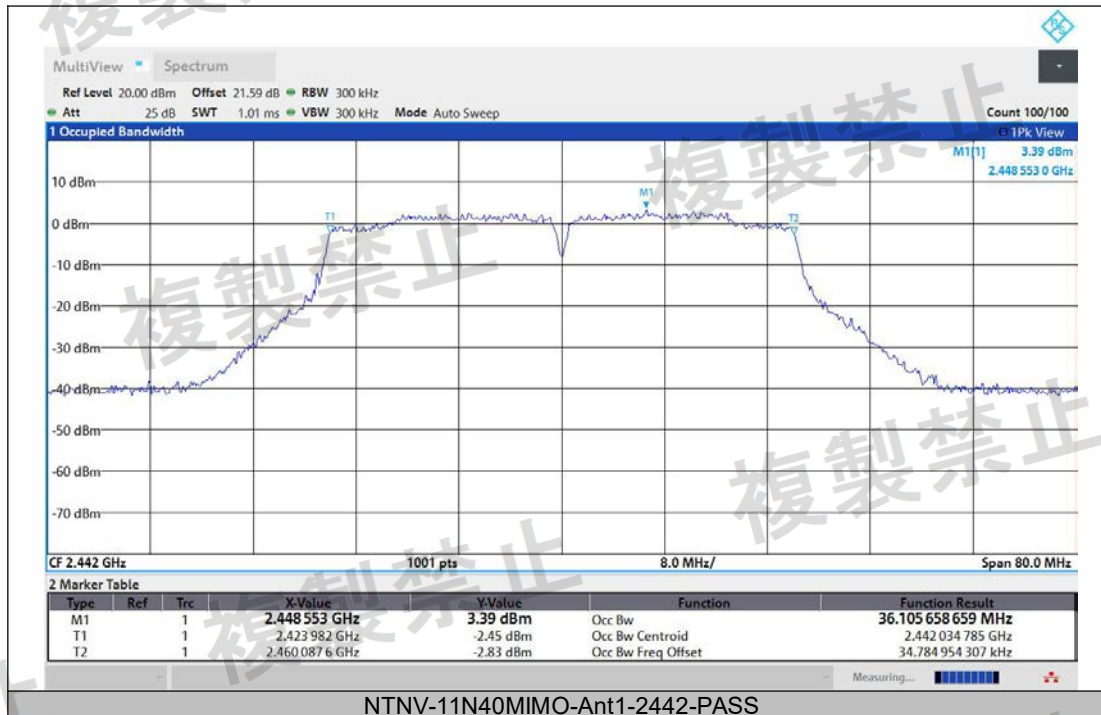








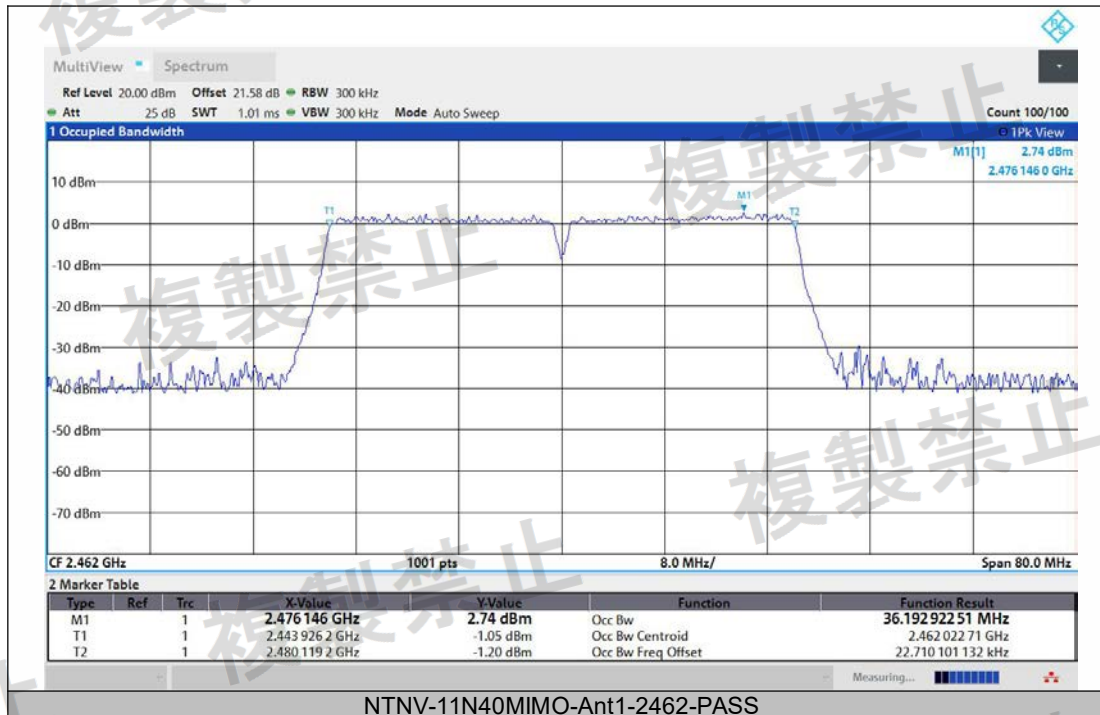


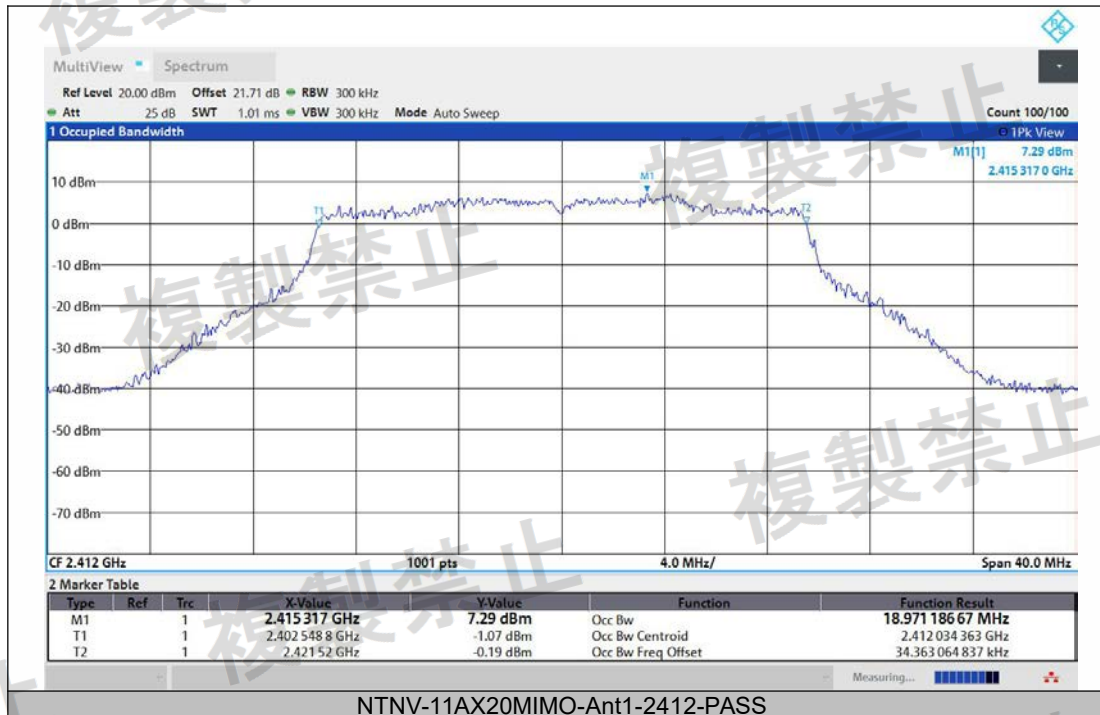


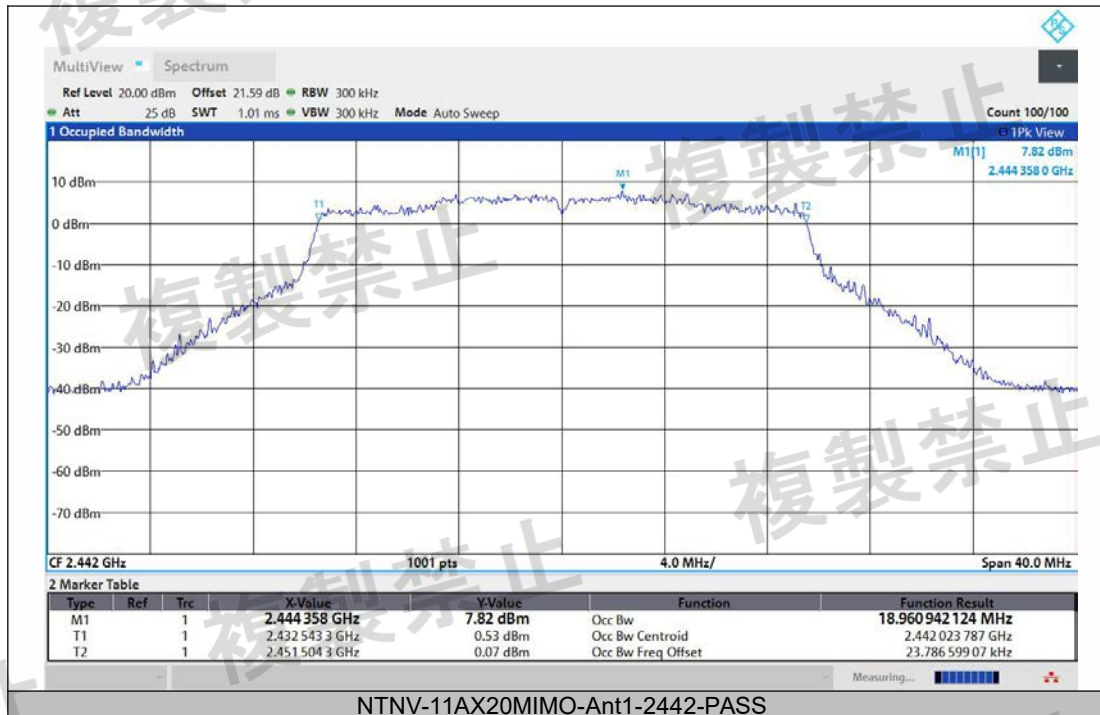
NTNV-11N40MIMO-Ant1-2442-PASS

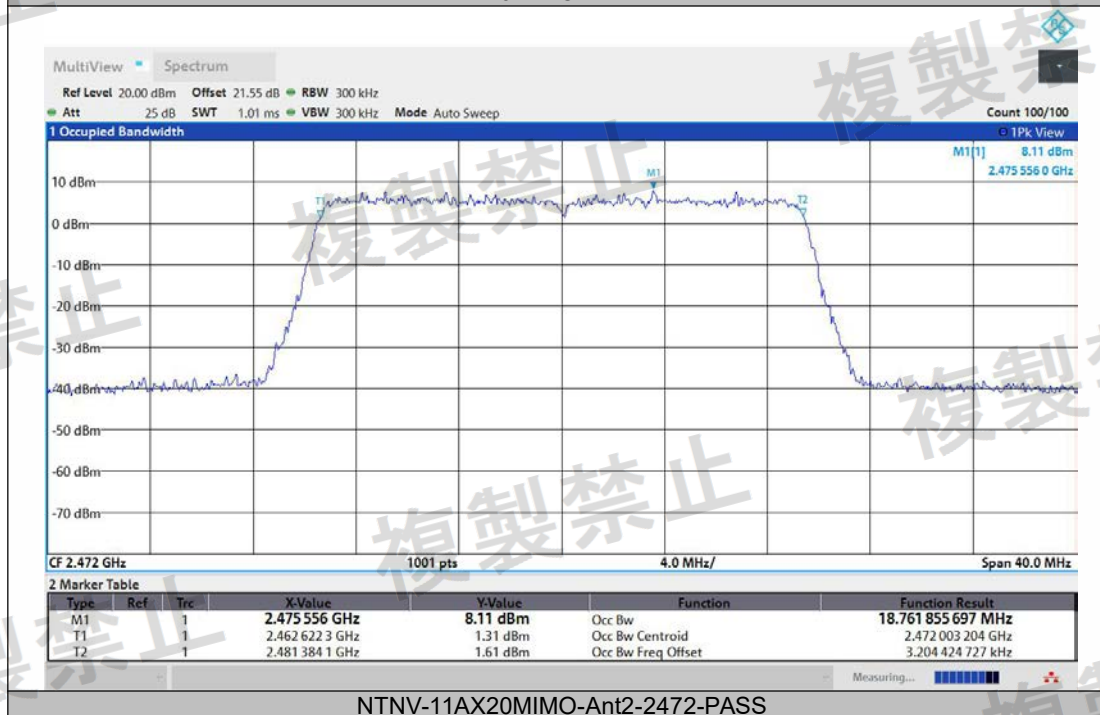
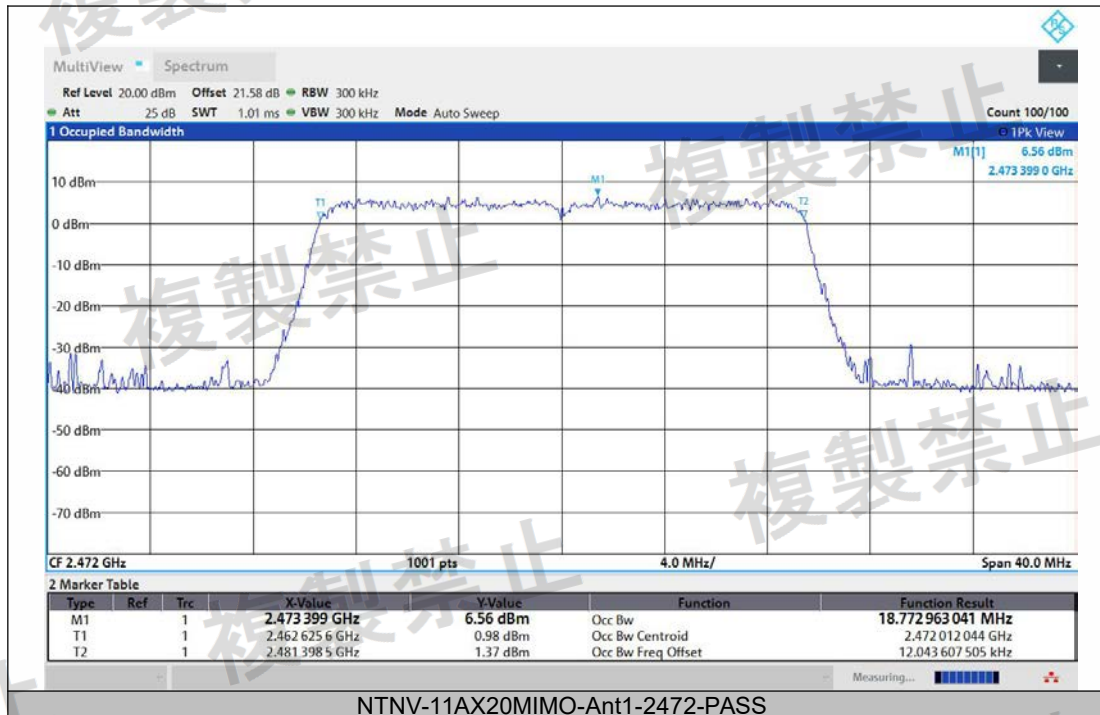


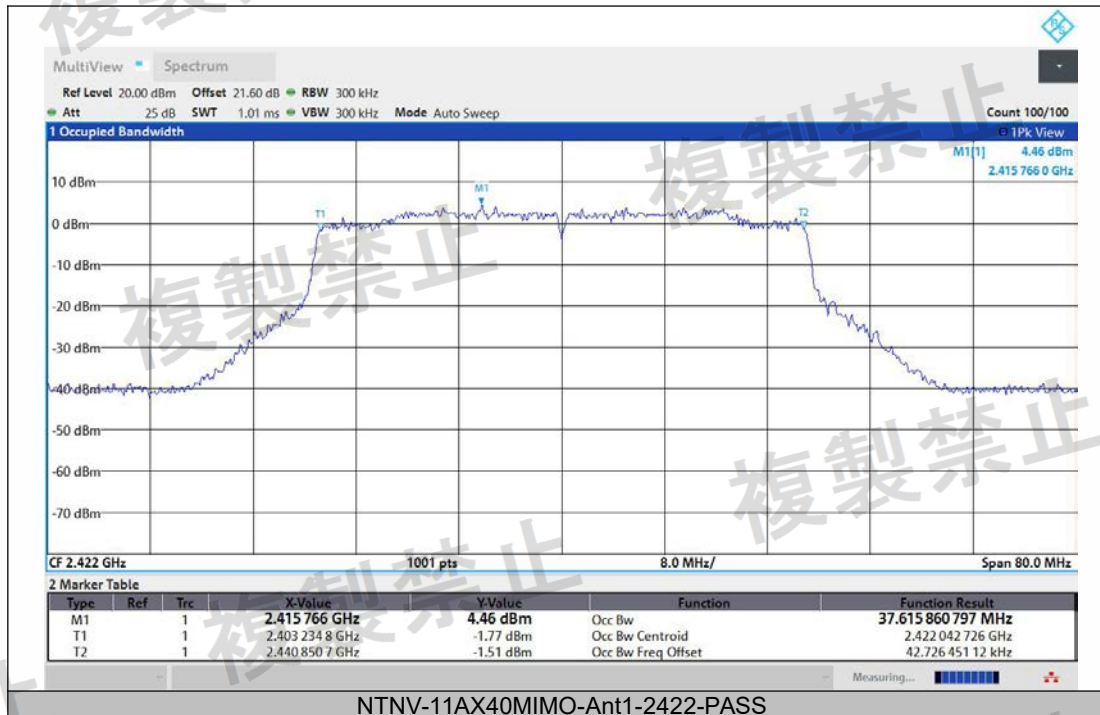
NTNV-11N40MIMO-Ant2-2442-PASS

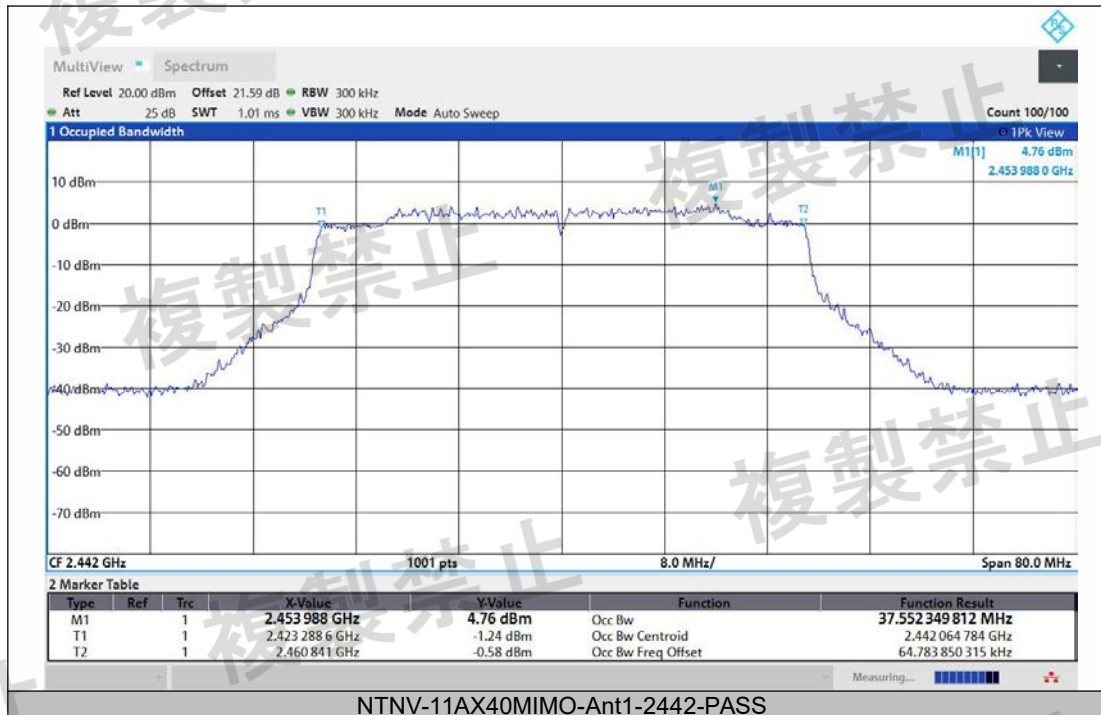


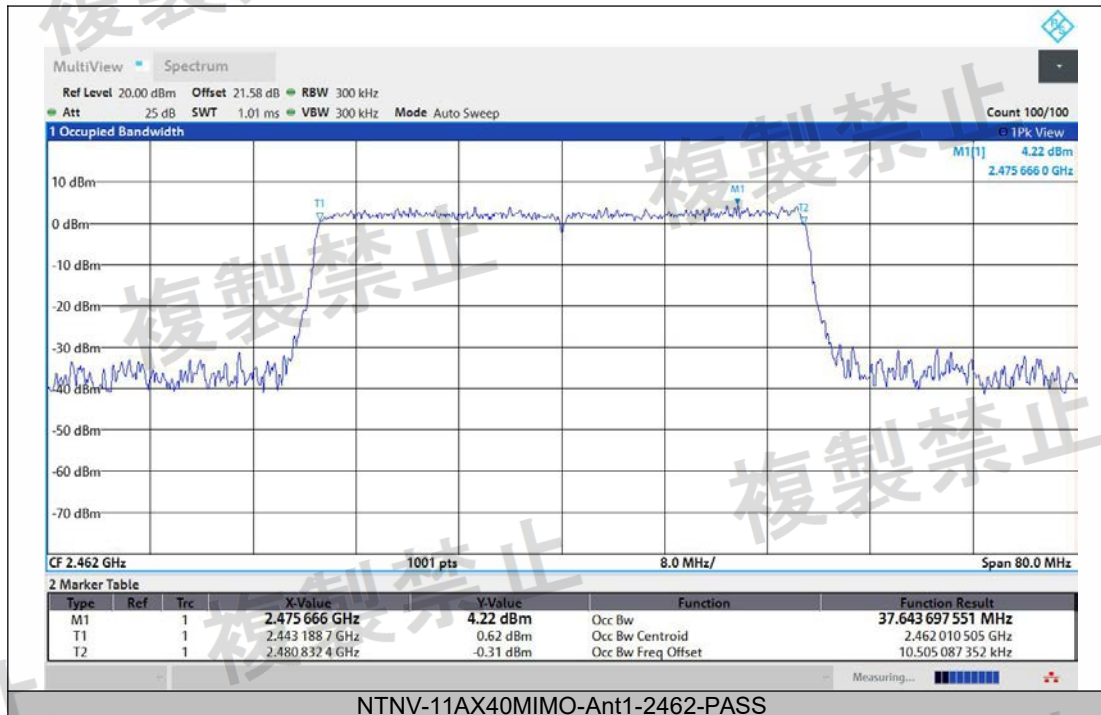


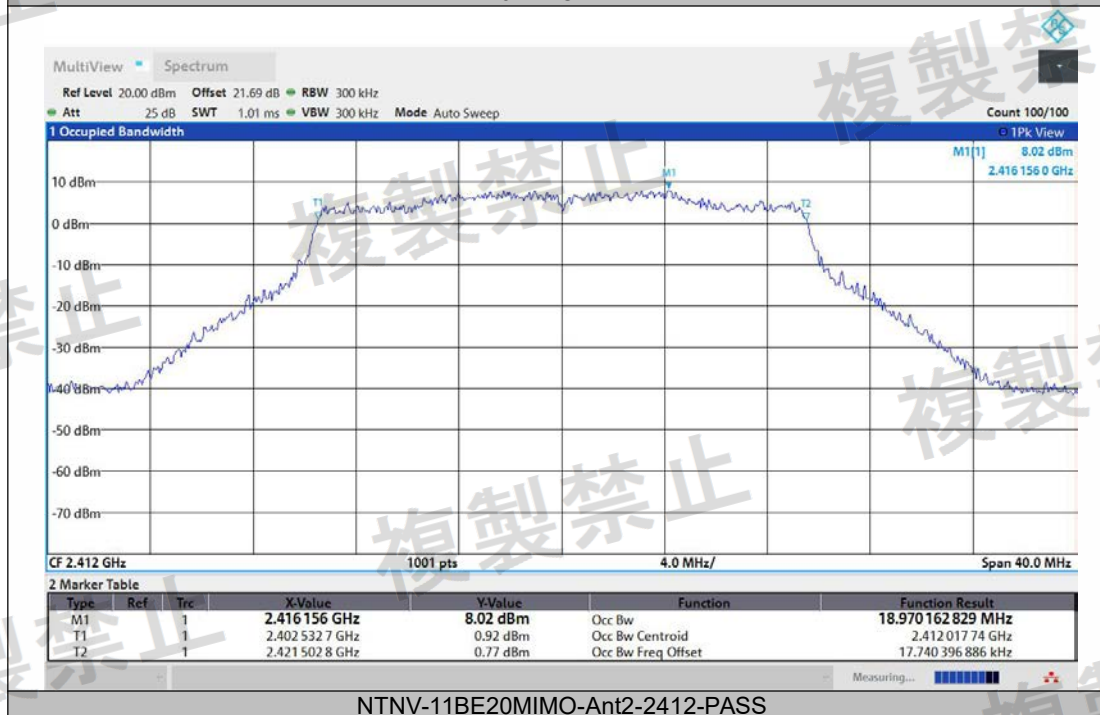
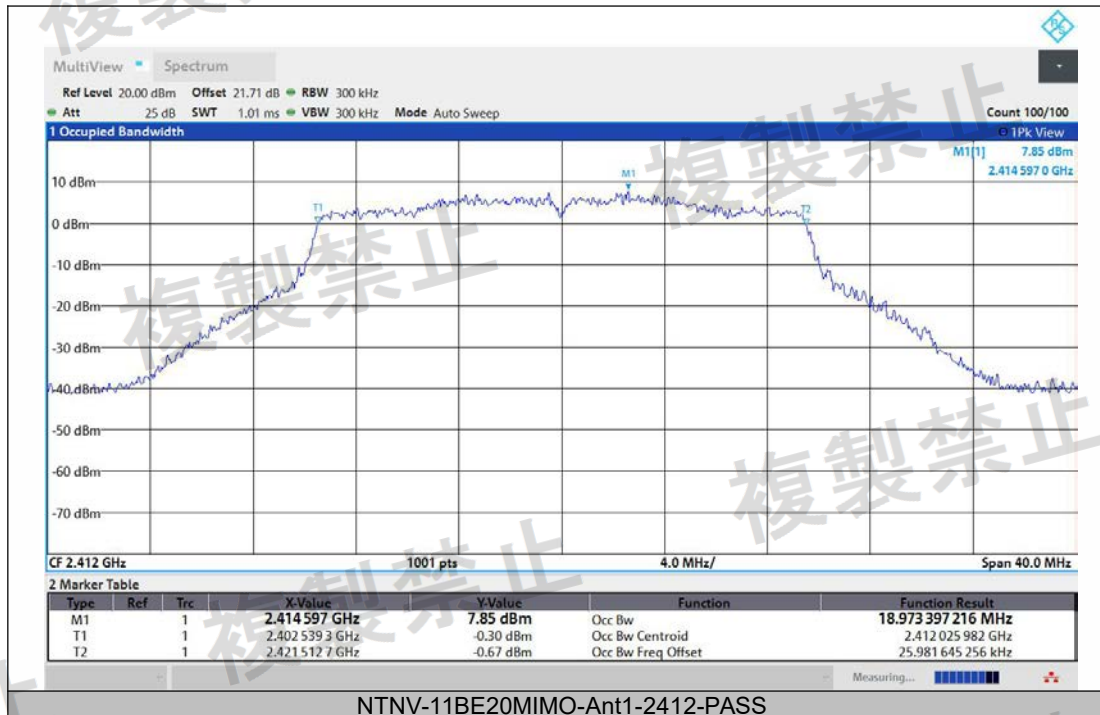


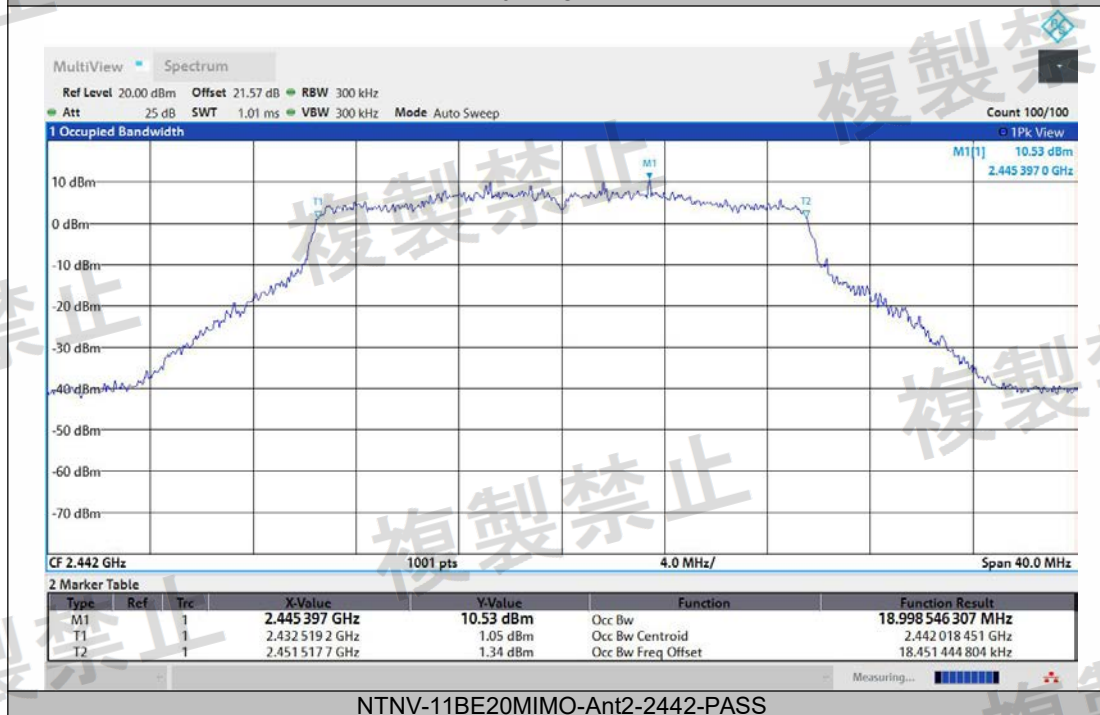
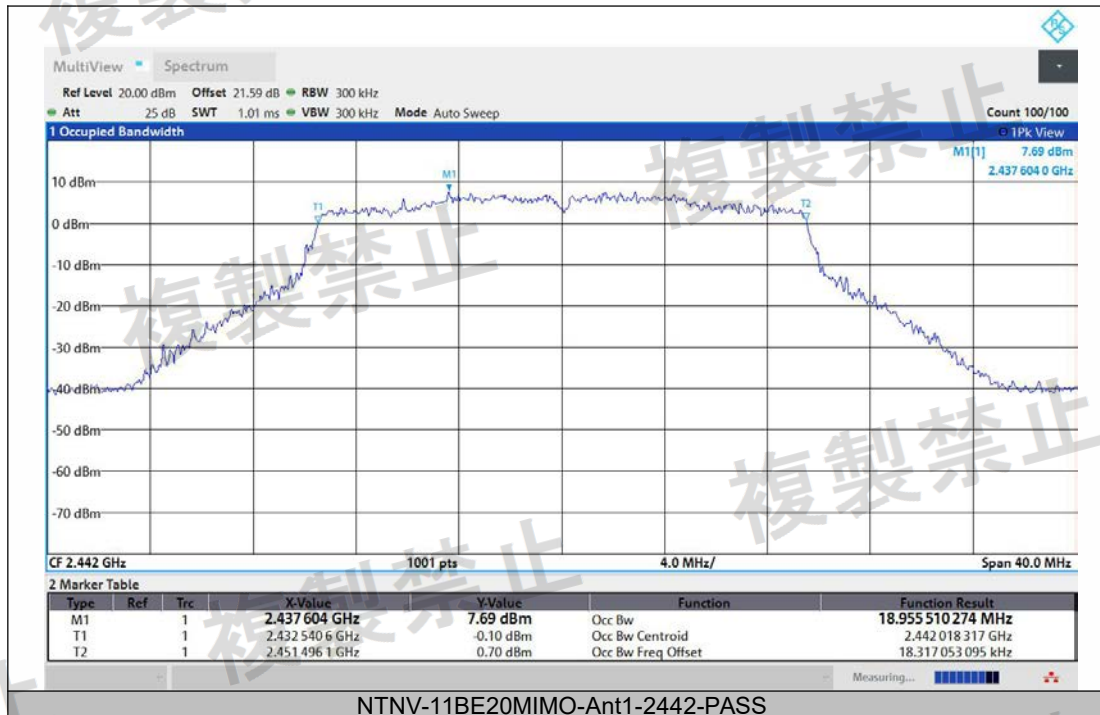


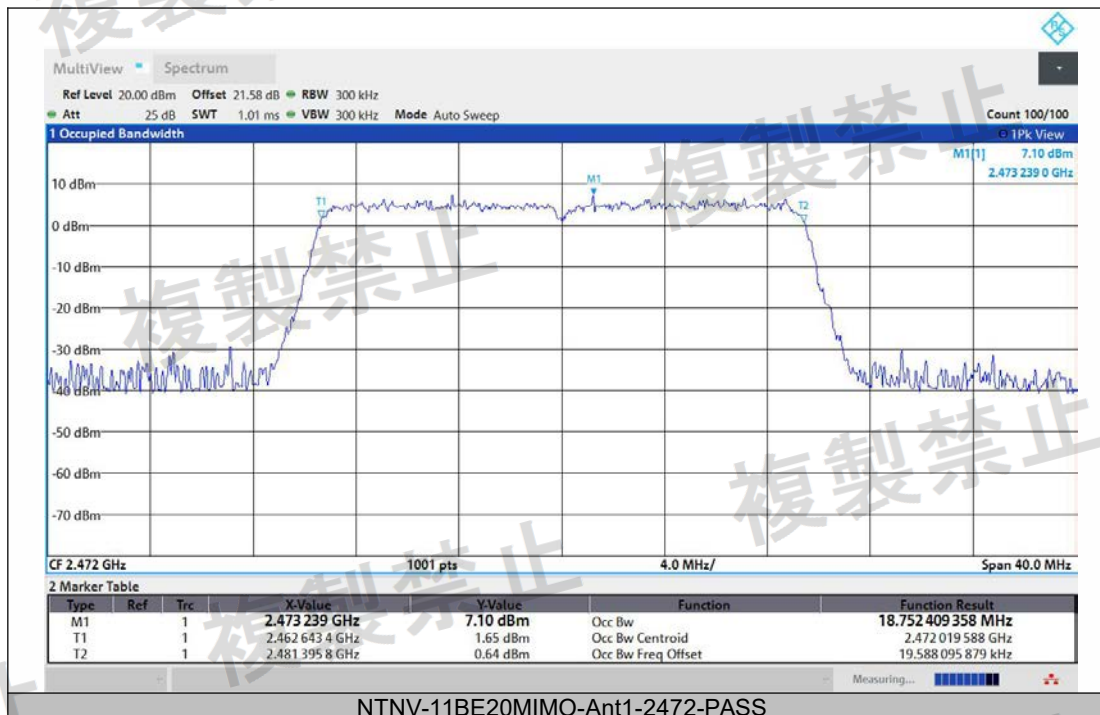


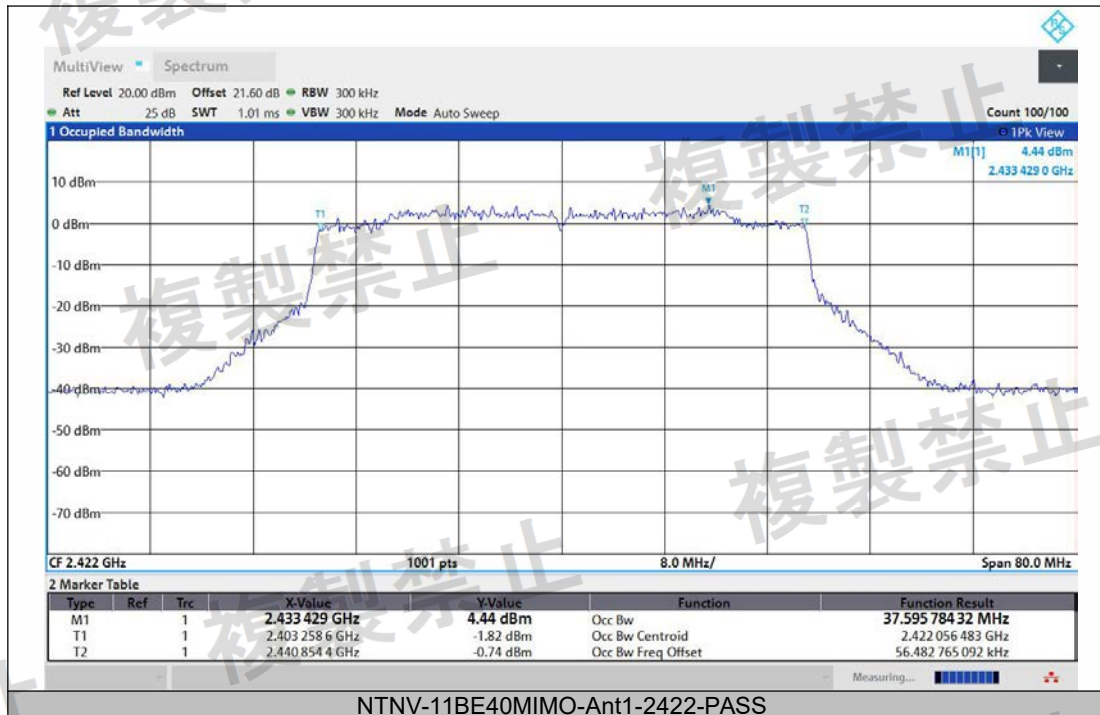


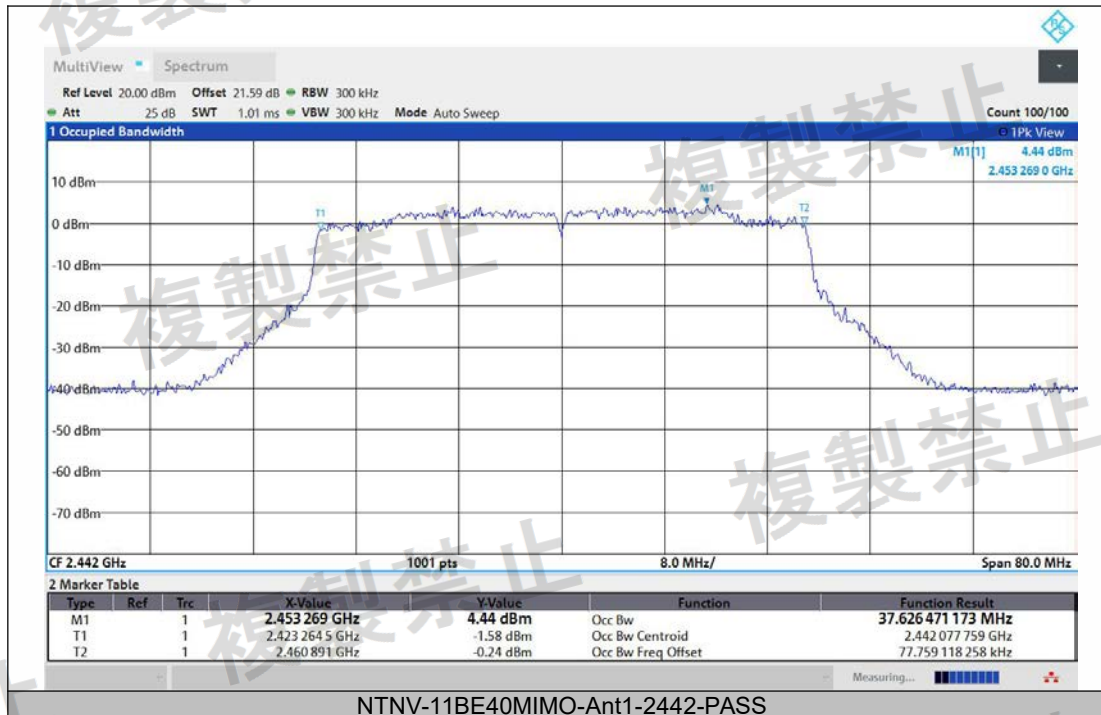


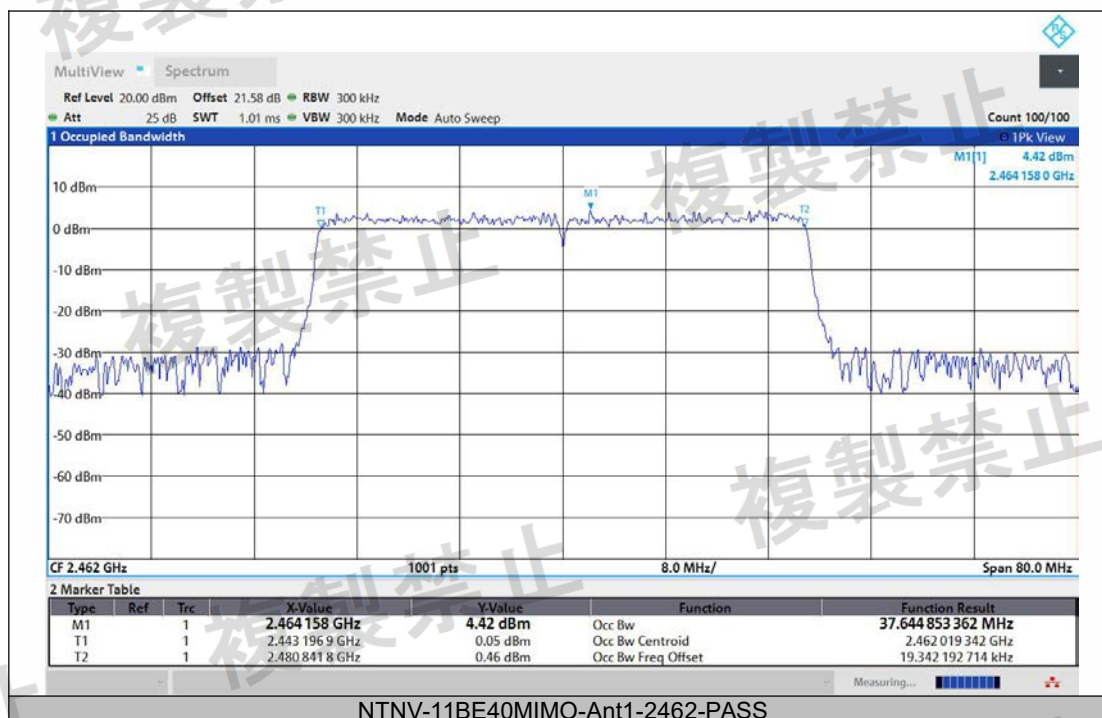






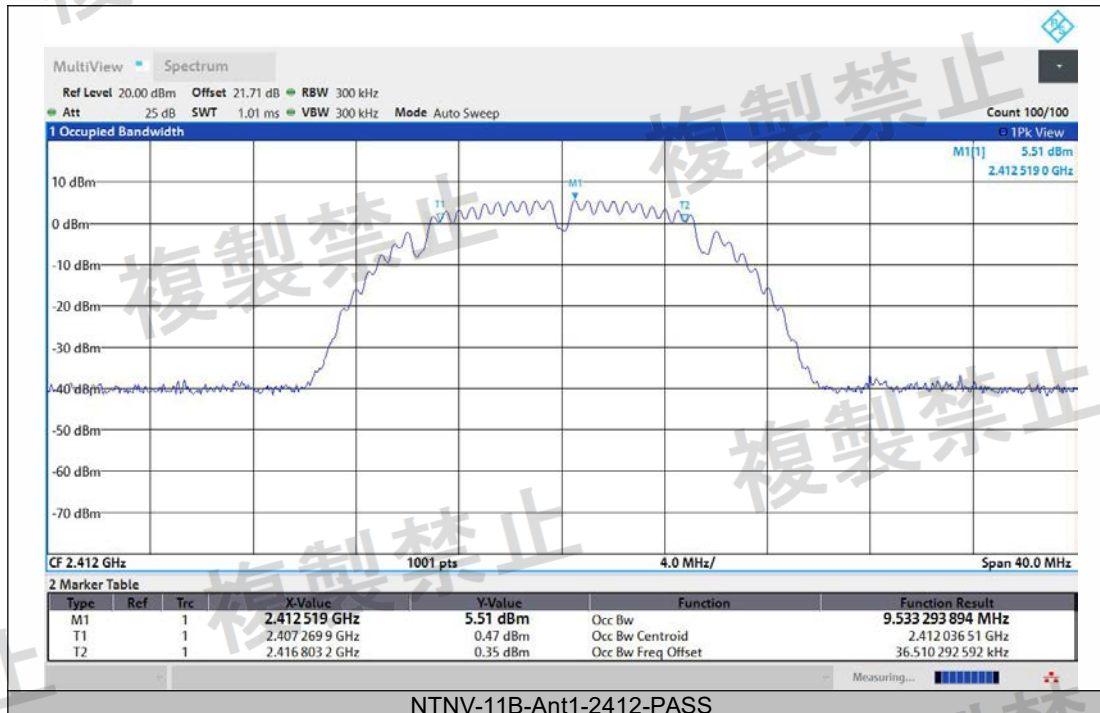




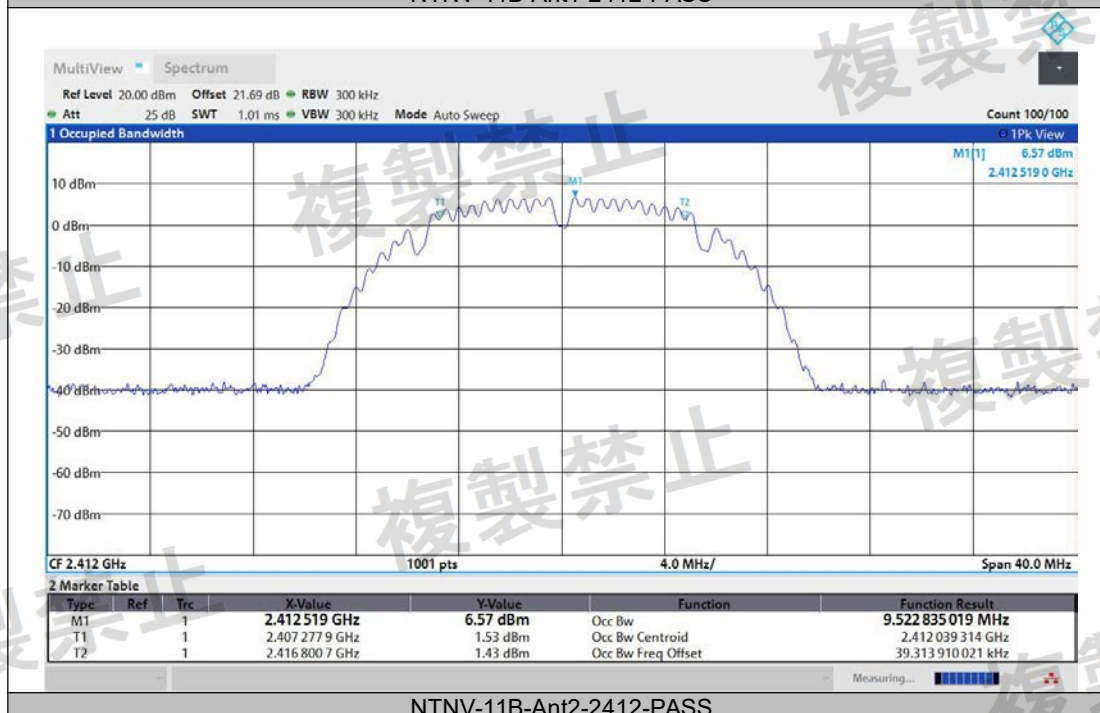


Spread Bandwidth (90% Emission bandwidth)

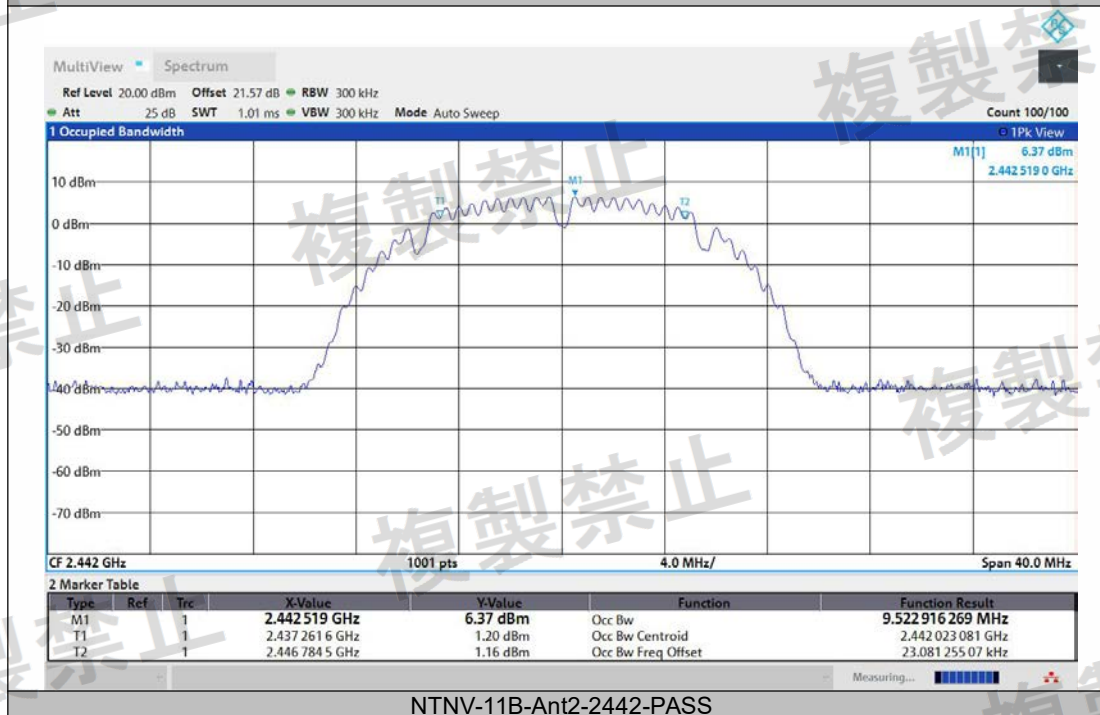
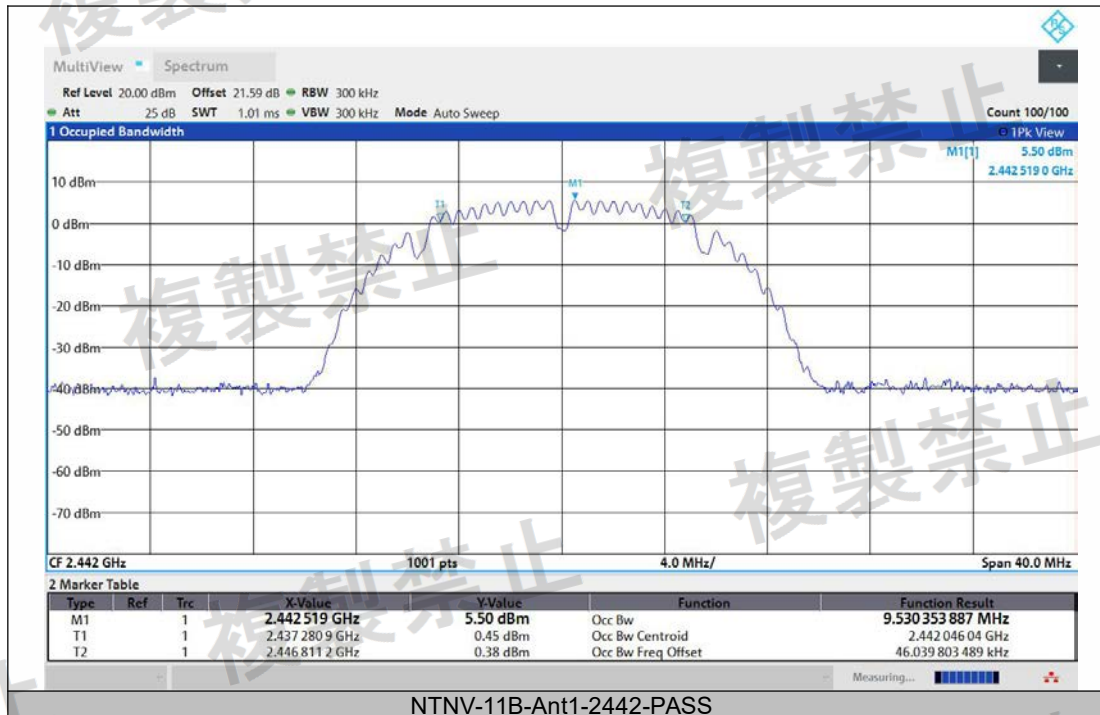
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	SpreadFactor	Limit	Verdict
NTNV	11B	Ant1	2412	9.533	≥0.5	6.933	>5	PASS
NTNV	11B	Ant2	2412	9.523	≥0.5	6.926	>5	PASS
NTNV	11B	Ant1	2442	9.530	≥0.5	6.931	>5	PASS
NTNV	11B	Ant2	2442	9.523	≥0.5	6.926	>5	PASS
NTNV	11B	Ant1	2472	9.529	≥0.5	6.930	>5	PASS
NTNV	11B	Ant2	2472	9.521	≥0.5	6.924	>5	PASS
NTNV	11G	Ant1	2412	14.025	≥0.5	---	---	PASS
NTNV	11G	Ant2	2412	14.063	≥0.5	---	---	PASS
NTNV	11G	Ant1	2442	14.144	≥0.5	---	---	PASS
NTNV	11G	Ant2	2442	14.060	≥0.5	---	---	PASS
NTNV	11G	Ant1	2472	14.663	≥0.5	---	---	PASS
NTNV	11G	Ant2	2472	14.689	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2412	15.015	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant2	2412	15.120	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2442	15.032	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant2	2442	15.057	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant1	2472	15.736	≥0.5	---	---	PASS
NTNV	11N20MIMO	Ant2	2472	15.725	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2422	30.622	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant2	2422	30.662	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2442	30.820	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant2	2442	30.712	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant1	2462	32.902	≥0.5	---	---	PASS
NTNV	11N40MIMO	Ant2	2462	32.911	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2412	16.235	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant2	2412	16.253	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2442	16.240	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant2	2442	16.256	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant1	2472	16.742	≥0.5	---	---	PASS
NTNV	11AX20MIMO	Ant2	2472	16.771	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2422	32.237	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant2	2422	31.924	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2442	32.300	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant2	2442	32.057	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant1	2462	34.219	≥0.5	---	---	PASS
NTNV	11AX40MIMO	Ant2	2462	34.023	≥0.5	---	---	PASS
NTNV	11BE20MIMO	Ant1	2412	16.144	≥0.5	11.741	>5	PASS
NTNV	11BE20MIMO	Ant2	2412	16.152	≥0.5	11.747	>5	PASS
NTNV	11BE20MIMO	Ant1	2442	16.282	≥0.5	11.841	>5	PASS
NTNV	11BE20MIMO	Ant2	2442	16.219	≥0.5	11.796	>5	PASS
NTNV	11BE20MIMO	Ant1	2472	16.694	≥0.5	12.141	>5	PASS
NTNV	11BE20MIMO	Ant2	2472	16.793	≥0.5	12.213	>5	PASS
NTNV	11BE40MIMO	Ant1	2422	32.030	≥0.5	23.295	>5	PASS
NTNV	11BE40MIMO	Ant2	2422	31.759	≥0.5	23.097	>5	PASS
NTNV	11BE40MIMO	Ant1	2442	32.119	≥0.5	23.359	>5	PASS
NTNV	11BE40MIMO	Ant2	2442	31.827	≥0.5	23.147	>5	PASS
NTNV	11BE40MIMO	Ant1	2462	34.094	≥0.5	24.796	>5	PASS
NTNV	11BE40MIMO	Ant2	2462	34.101	≥0.5	24.801	>5	PASS

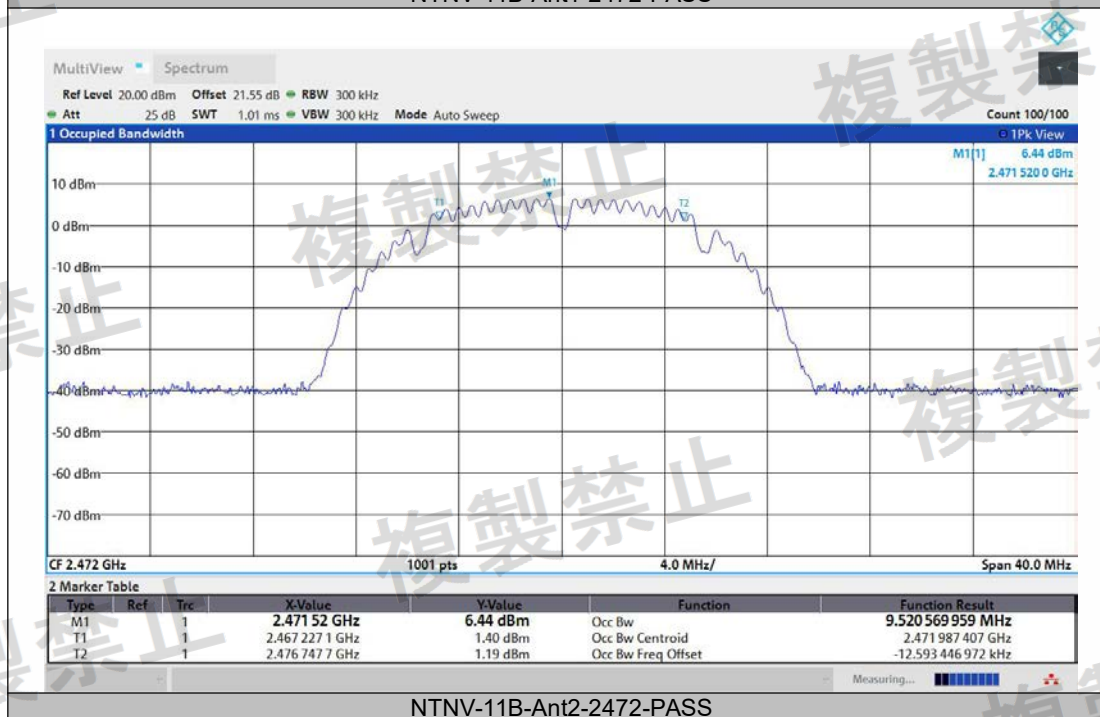
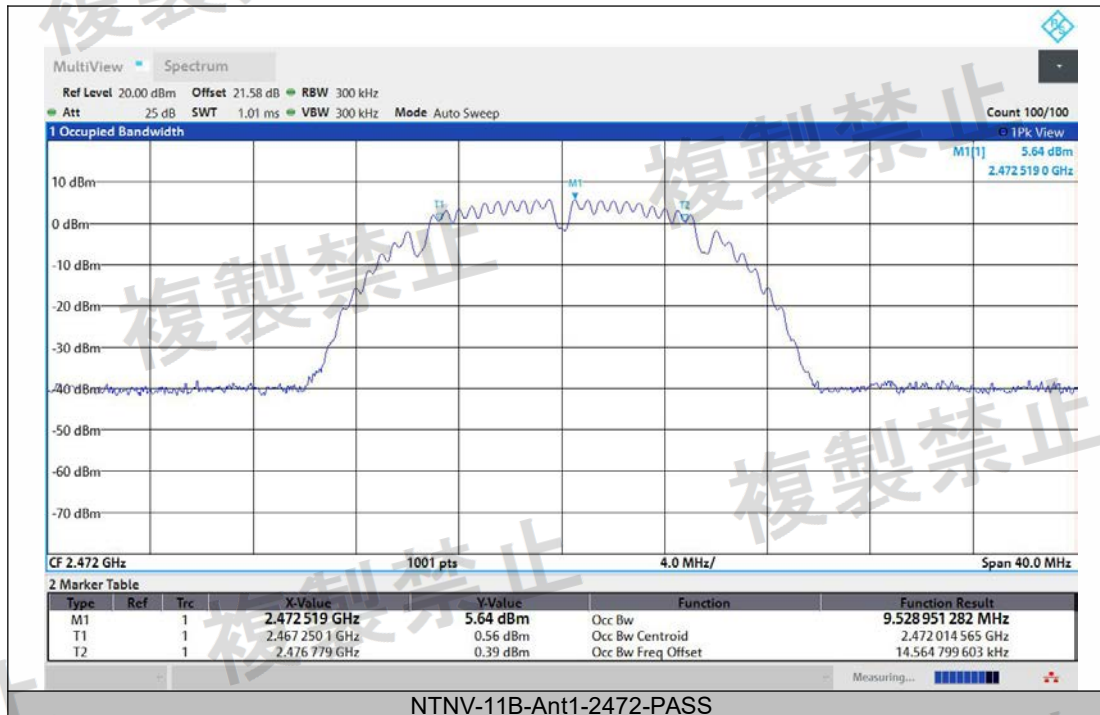


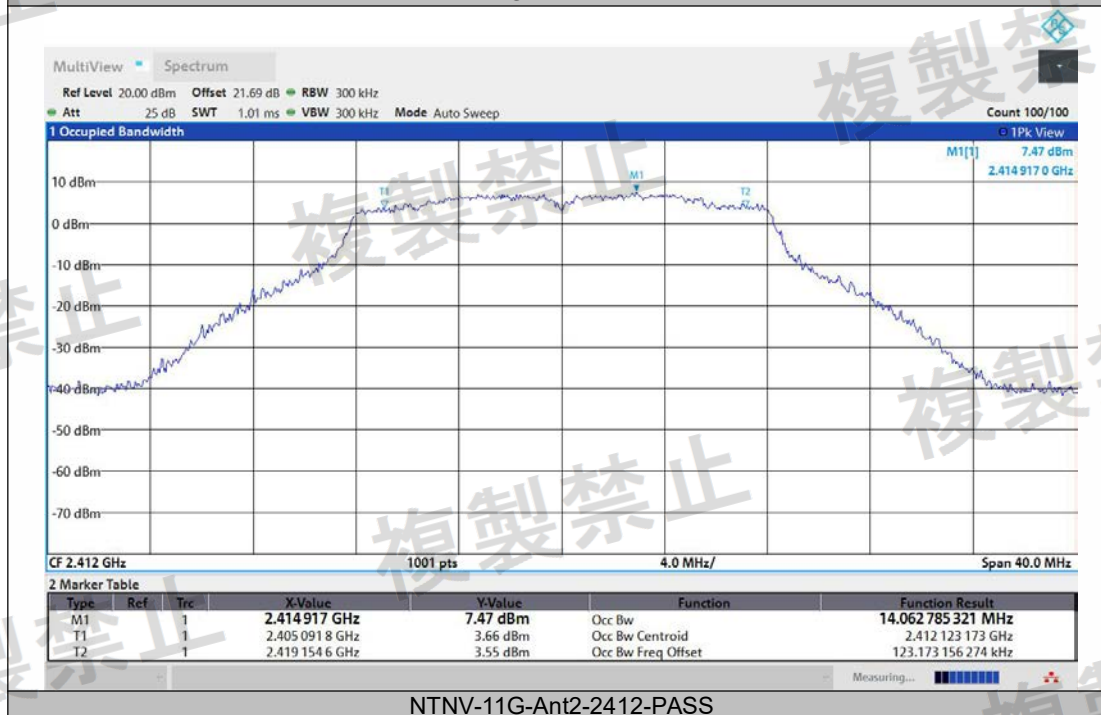
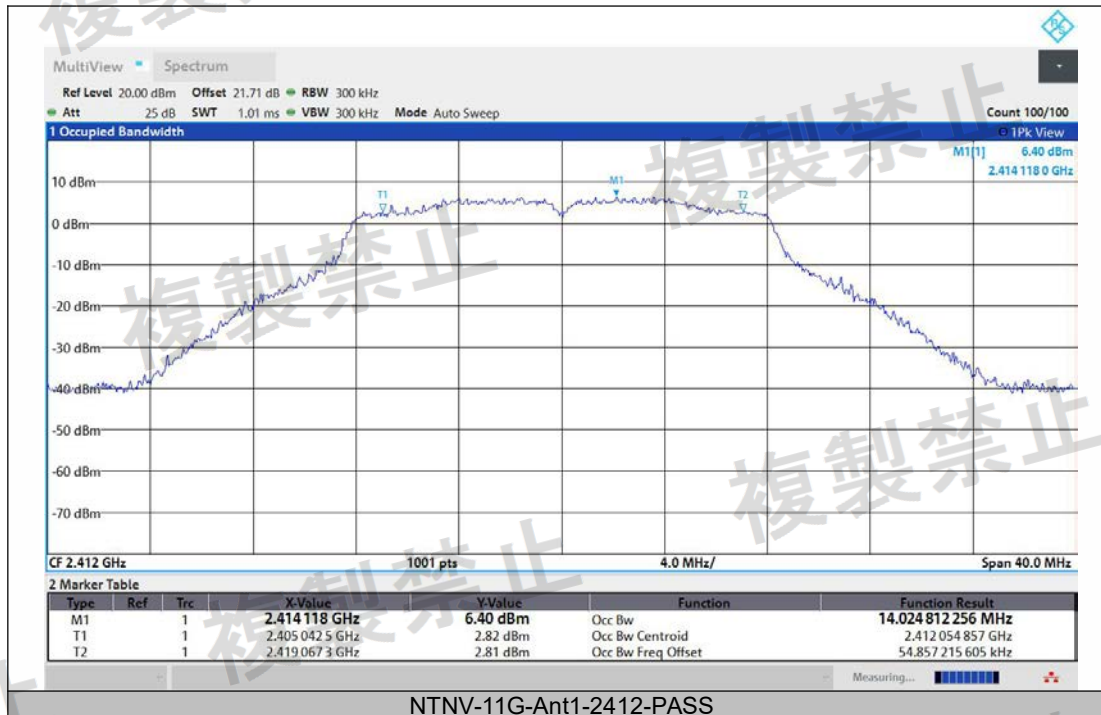
NTNV-11B-Ant1-2412-PASS

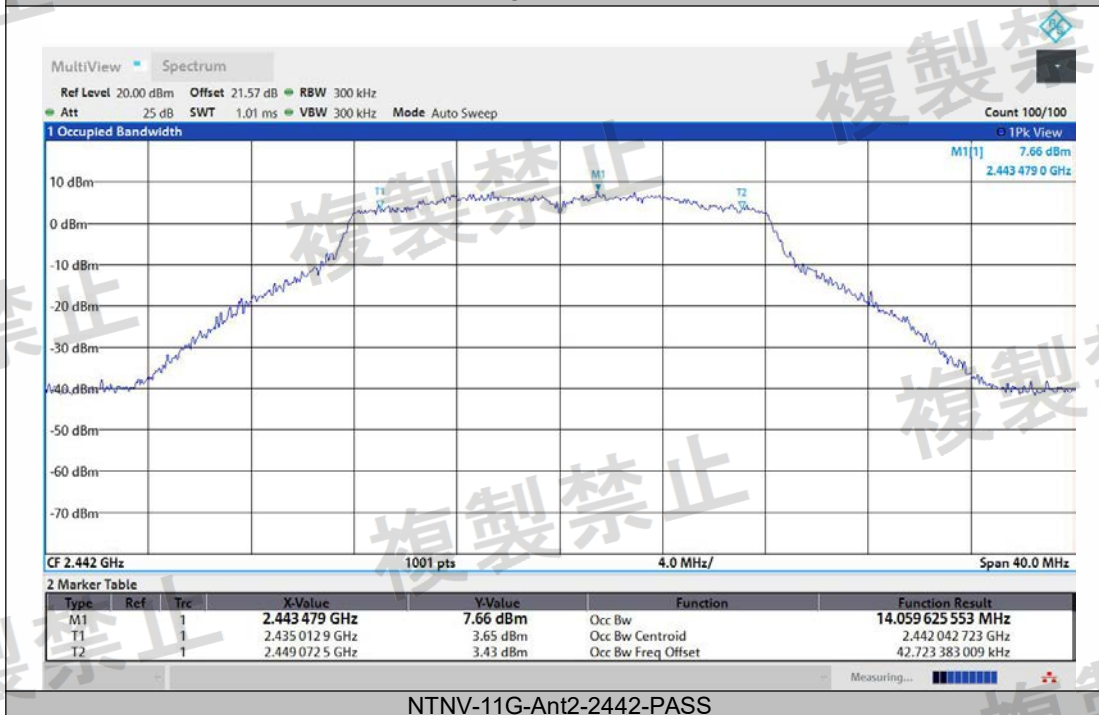
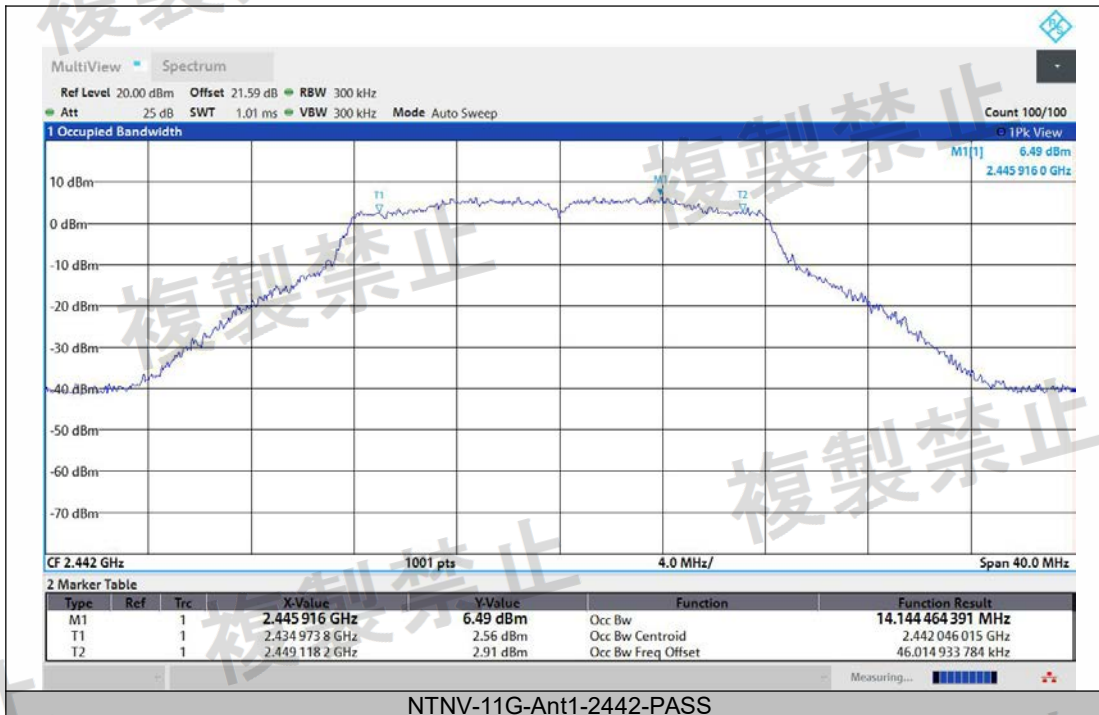


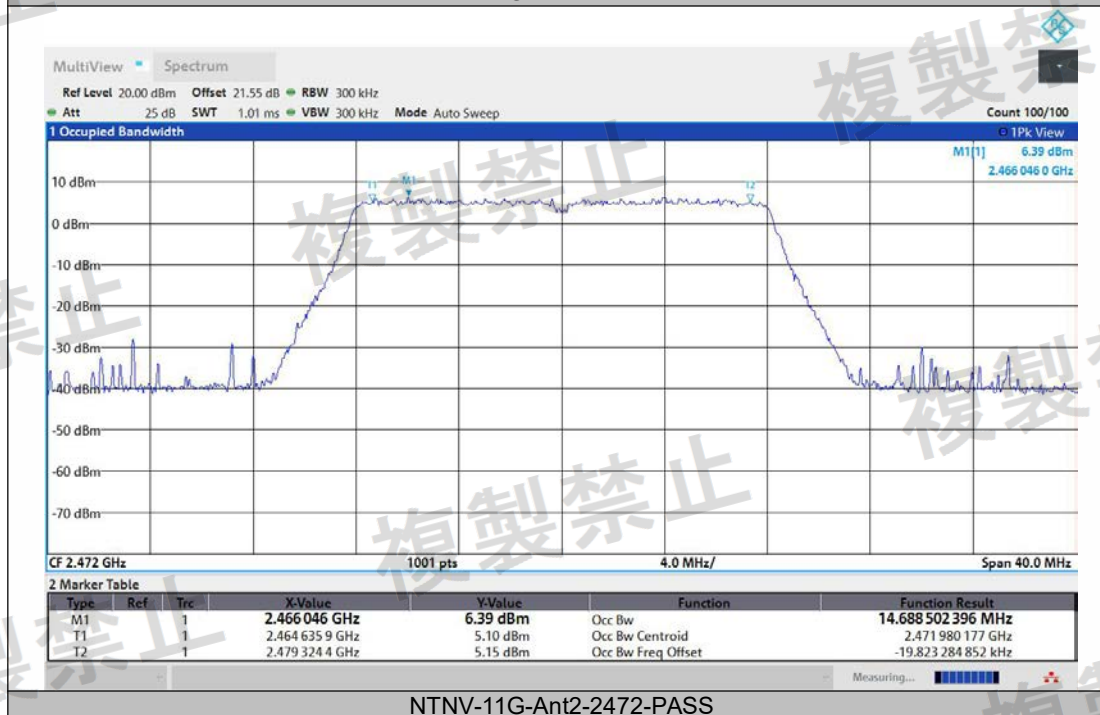
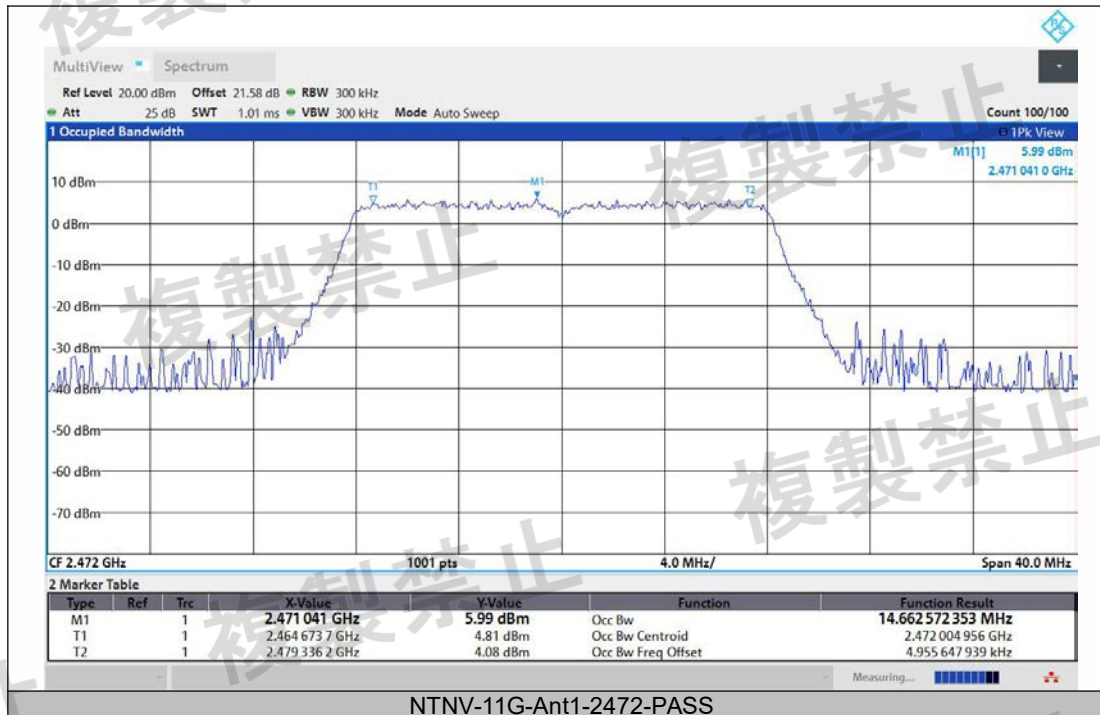
NTNV-11B-Ant2-2412-PASS

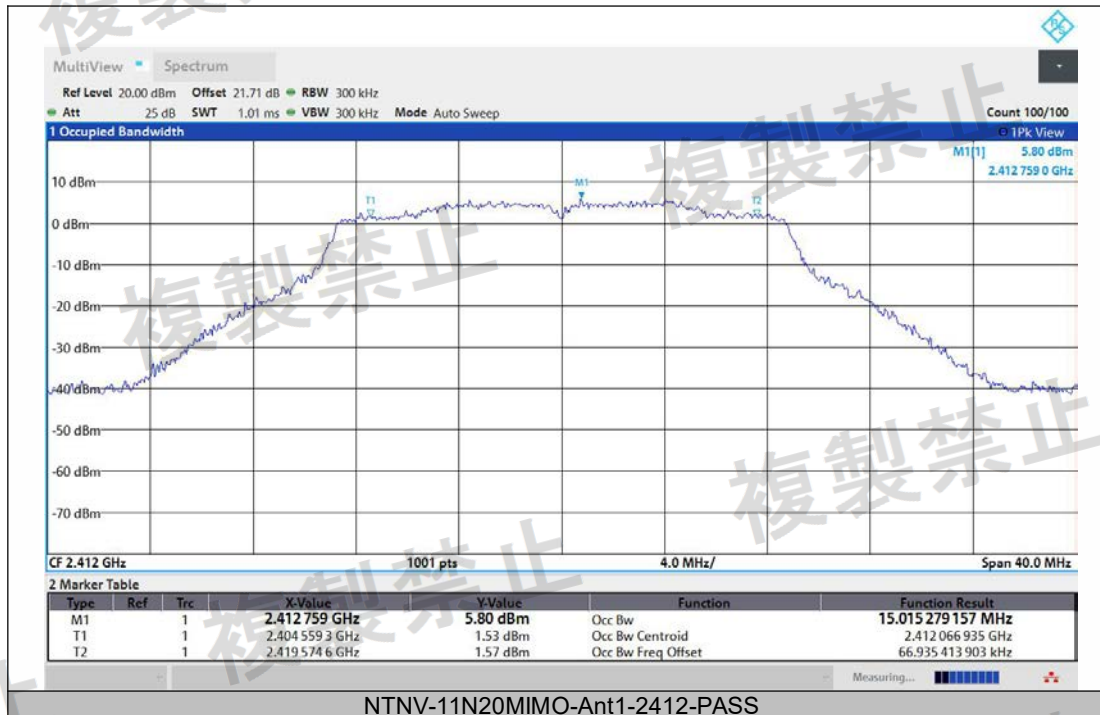


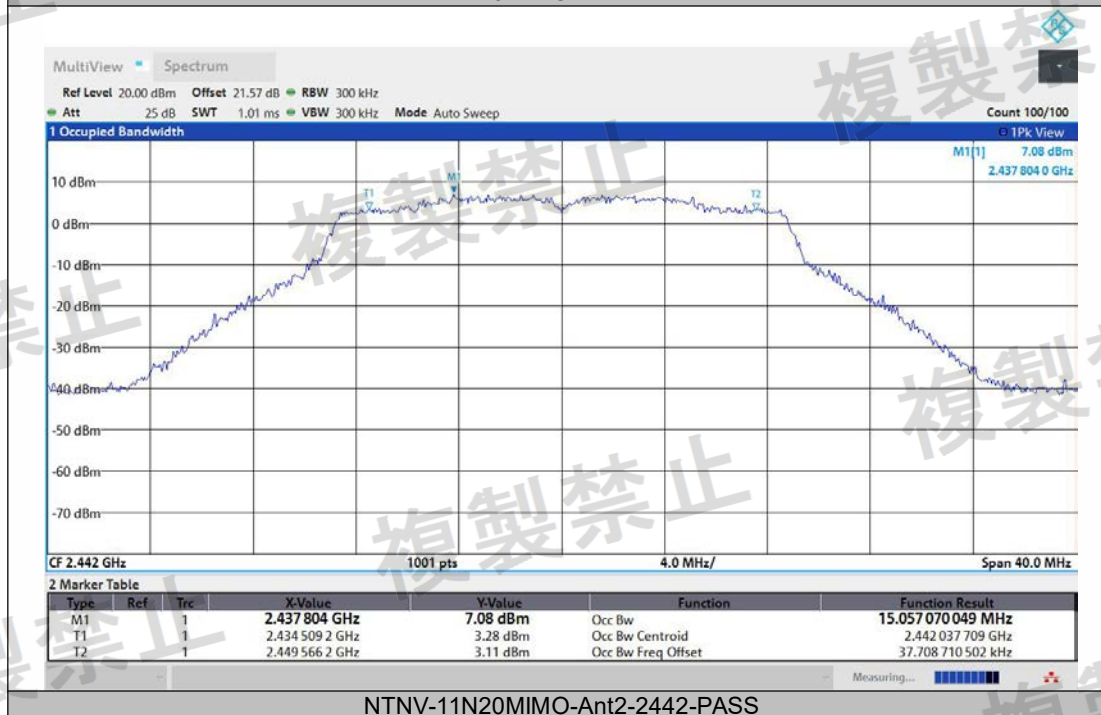
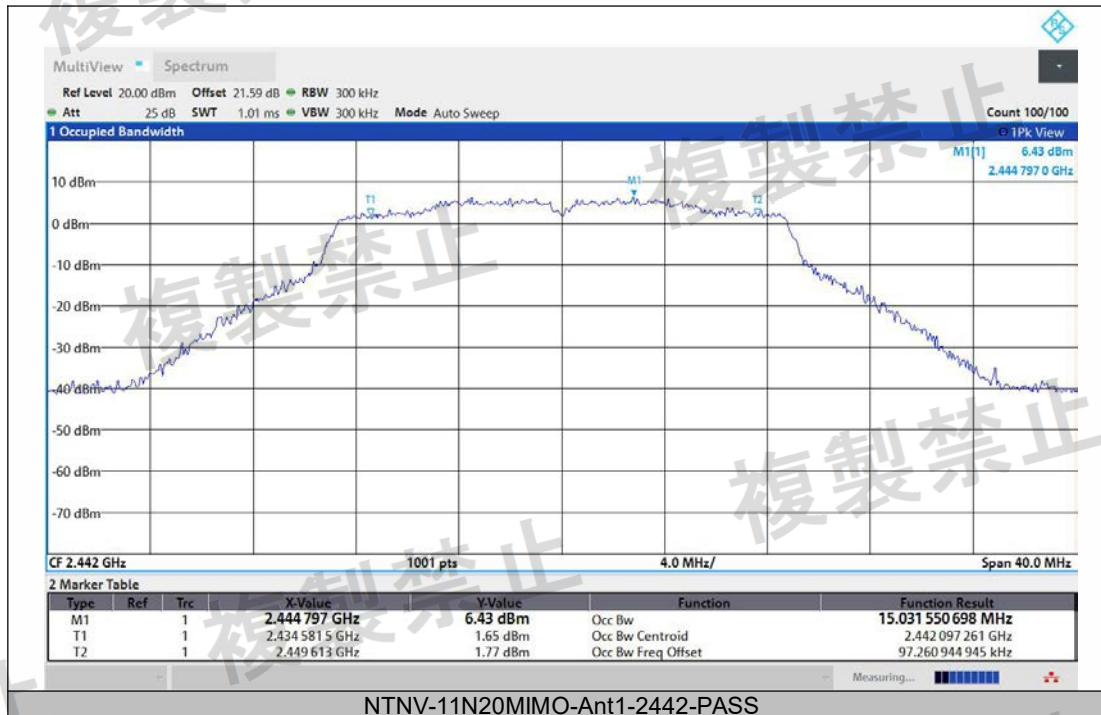


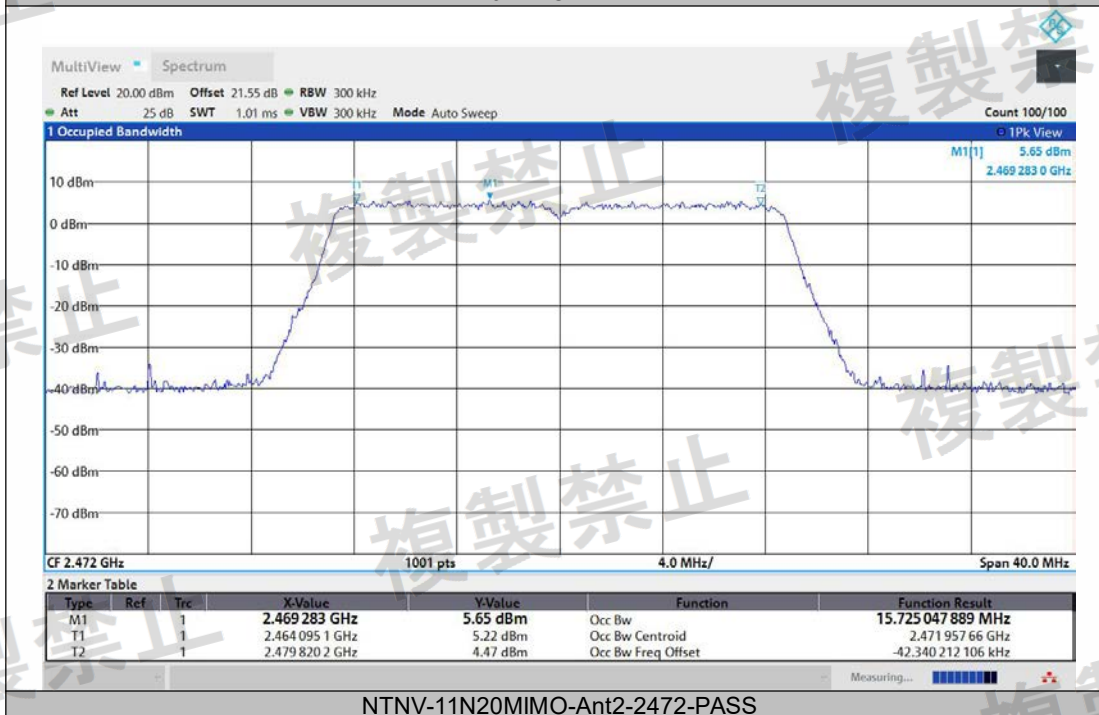
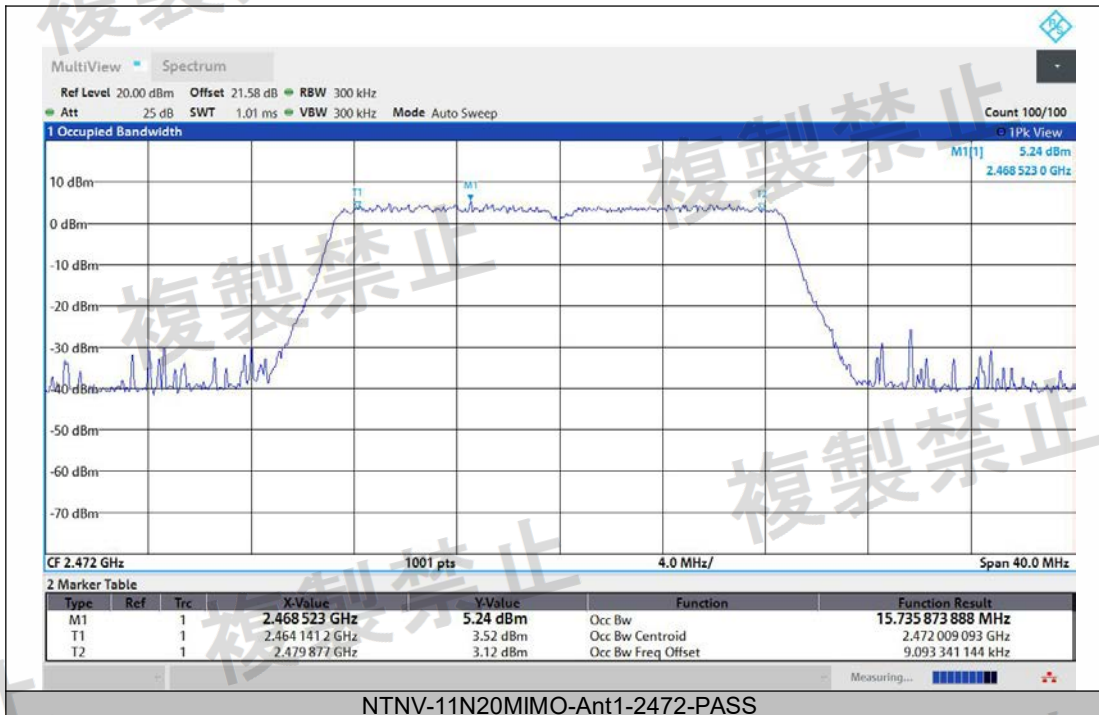


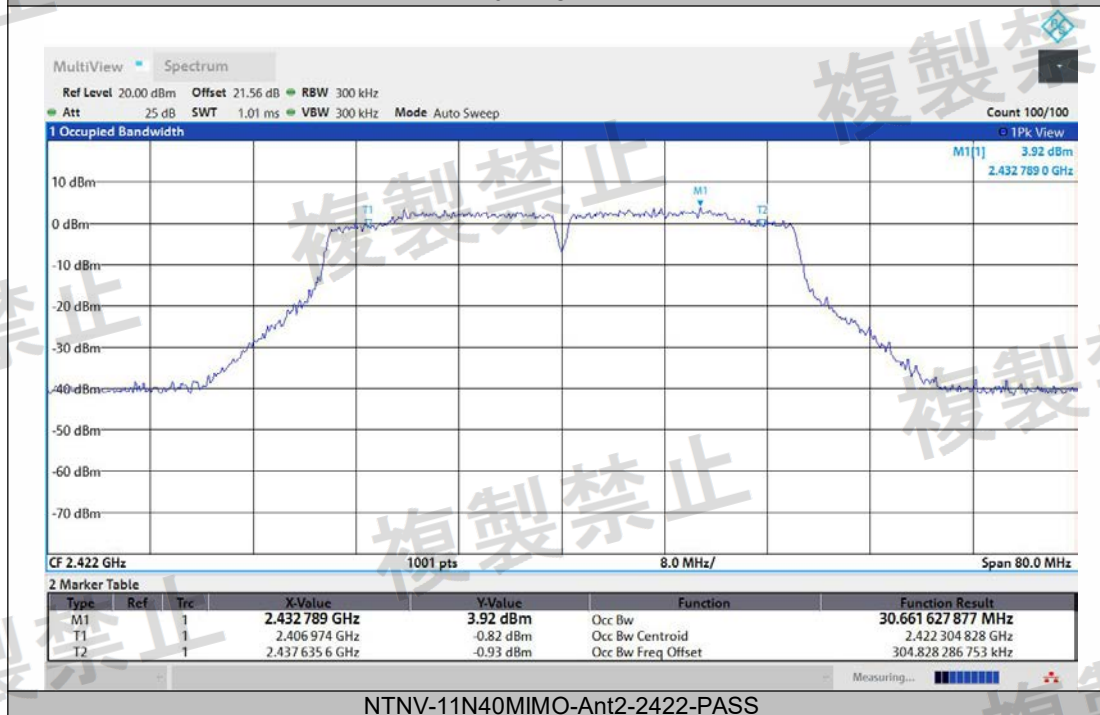
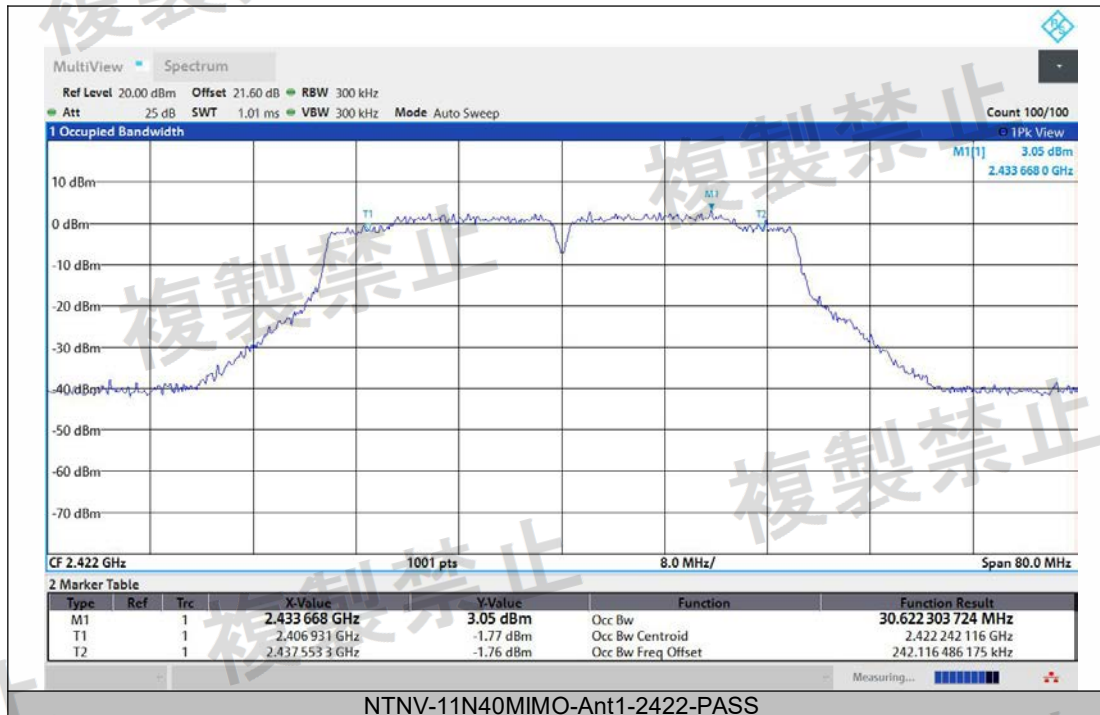


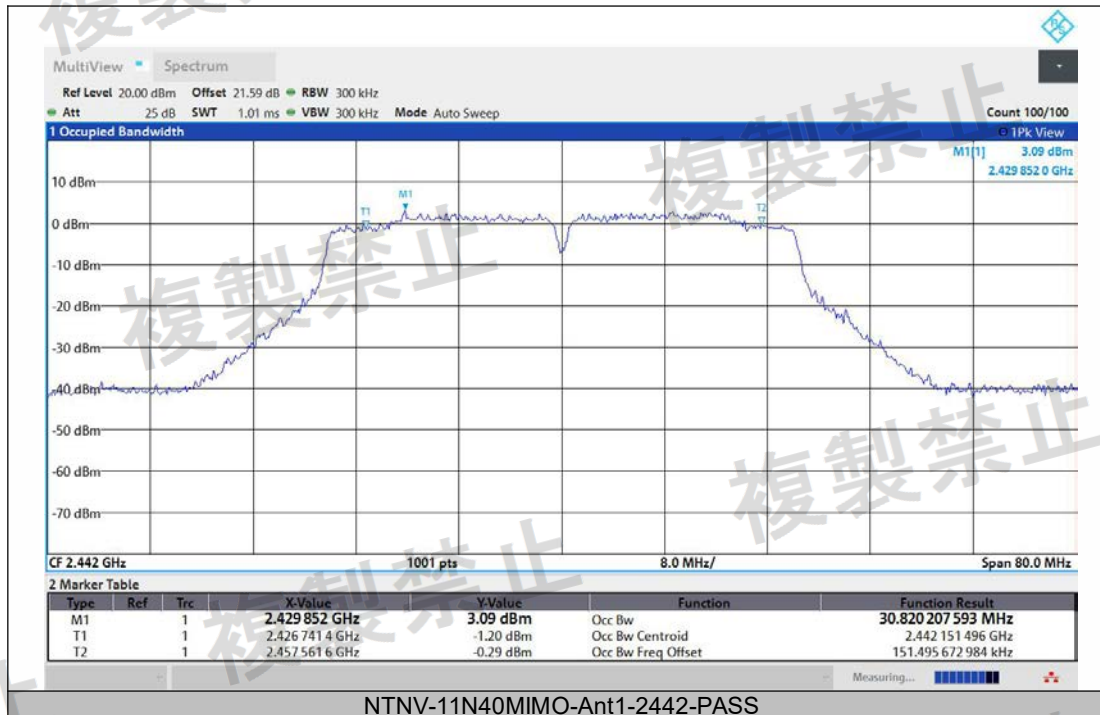


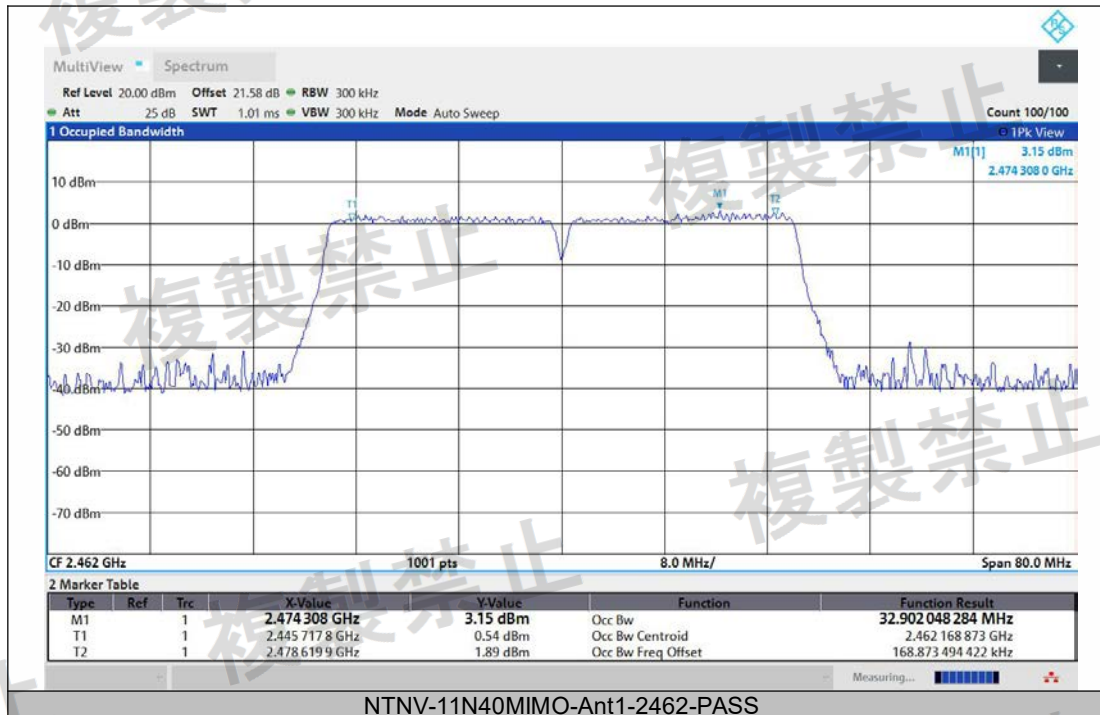




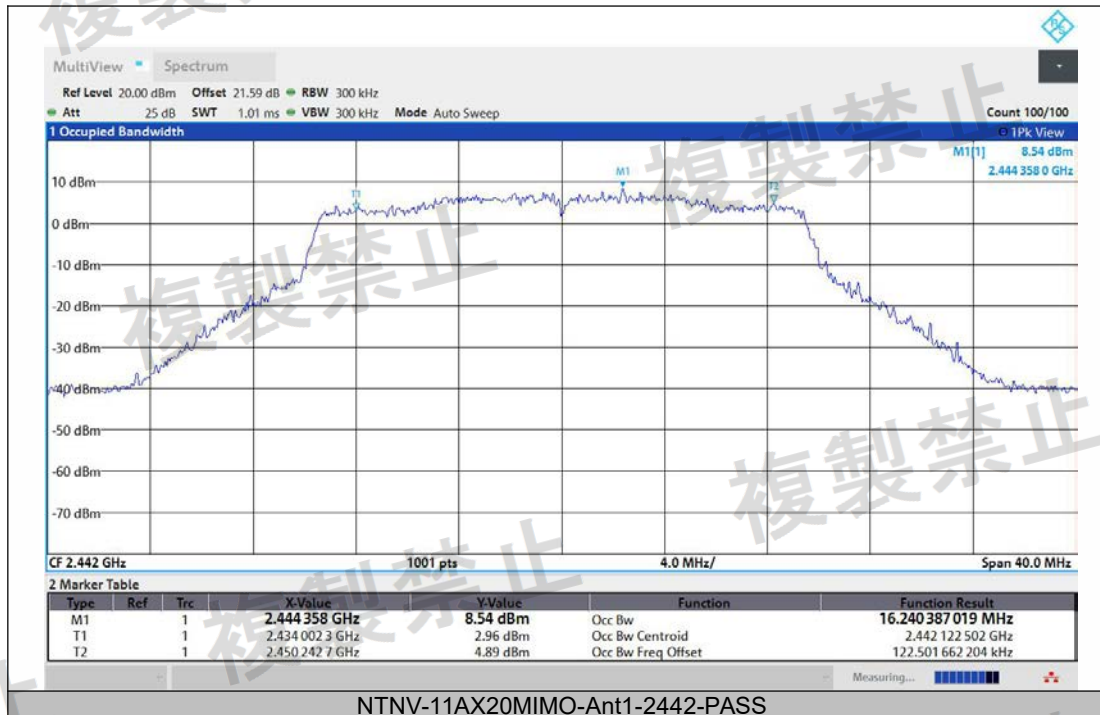


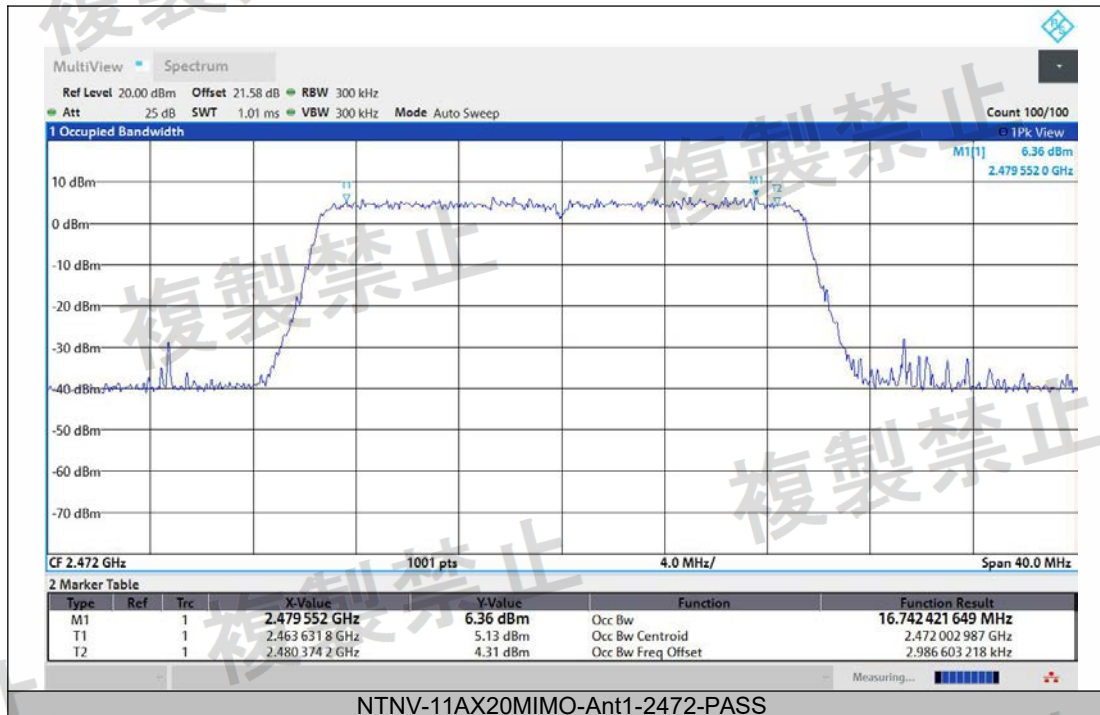






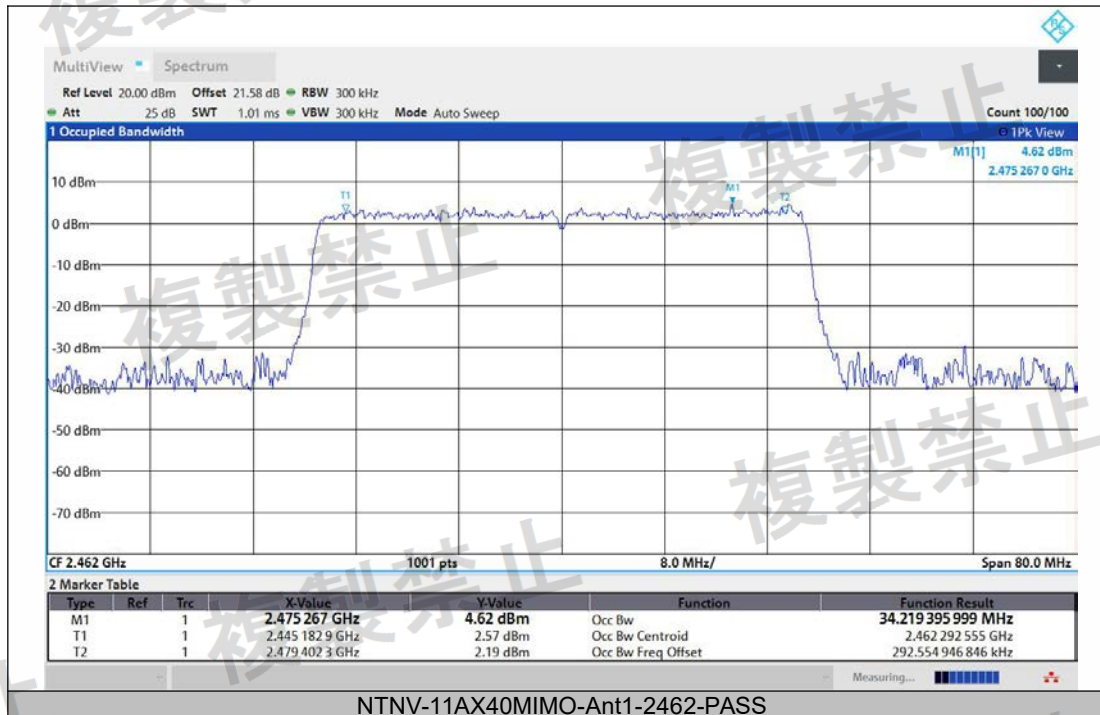


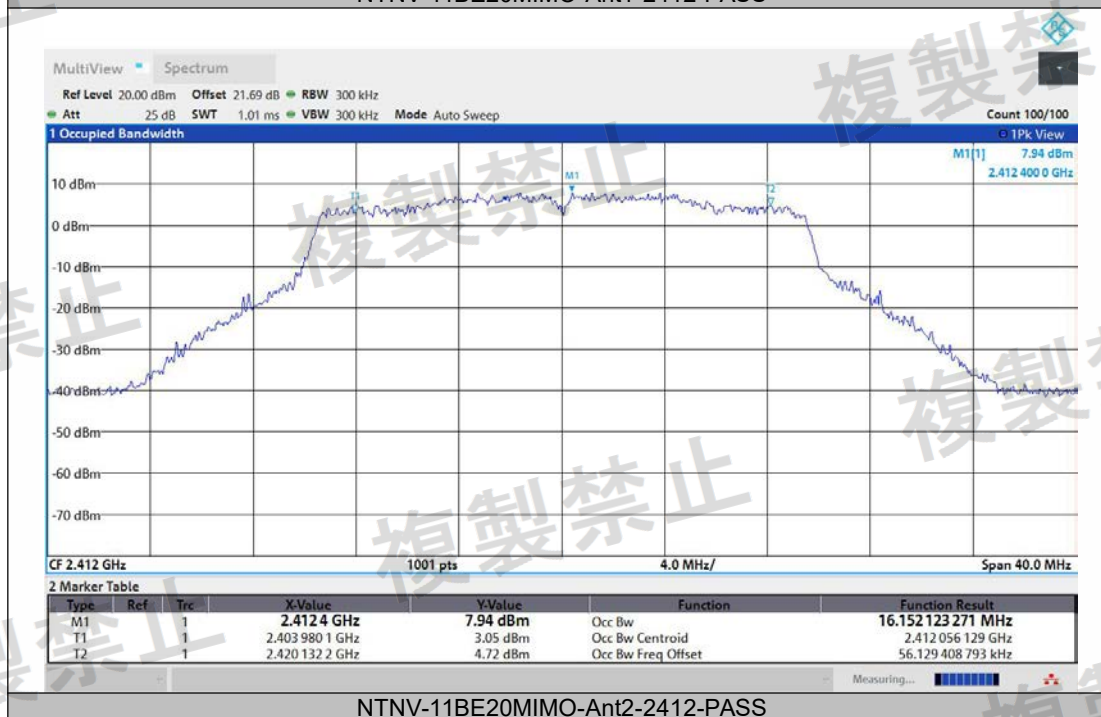






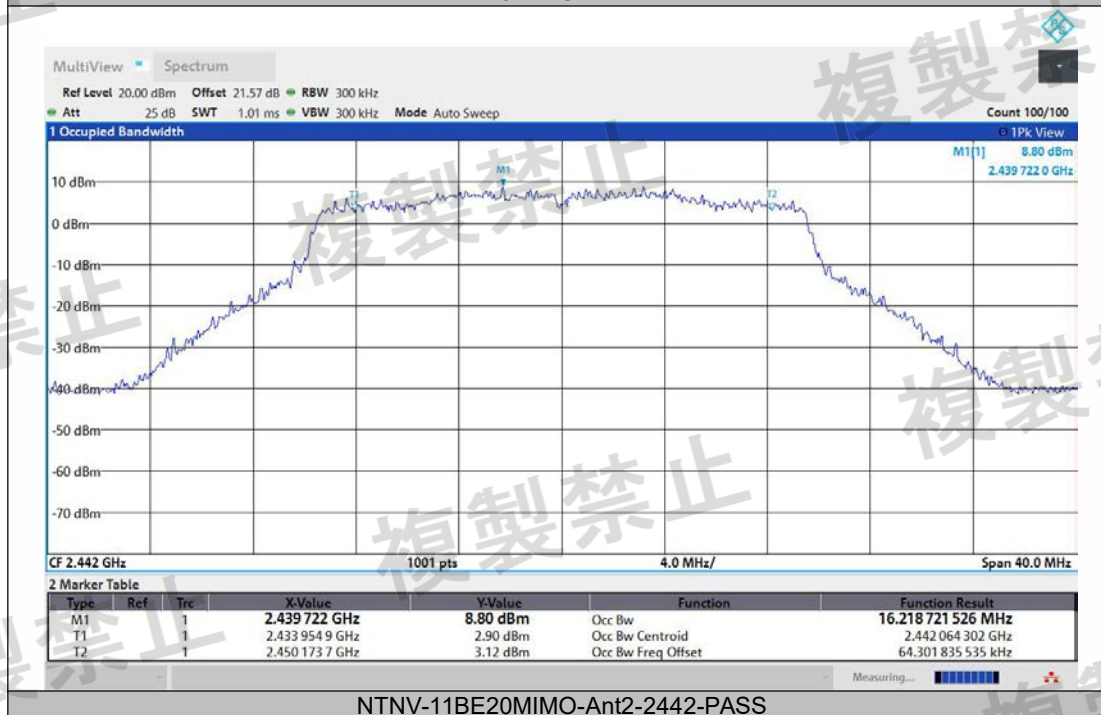




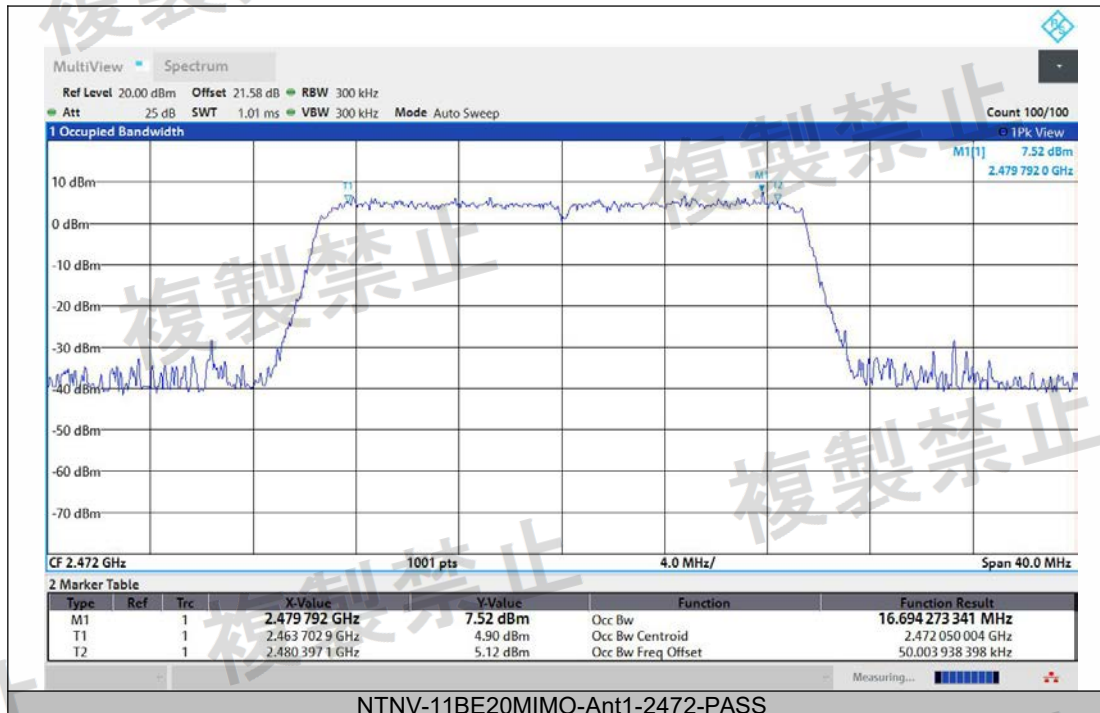




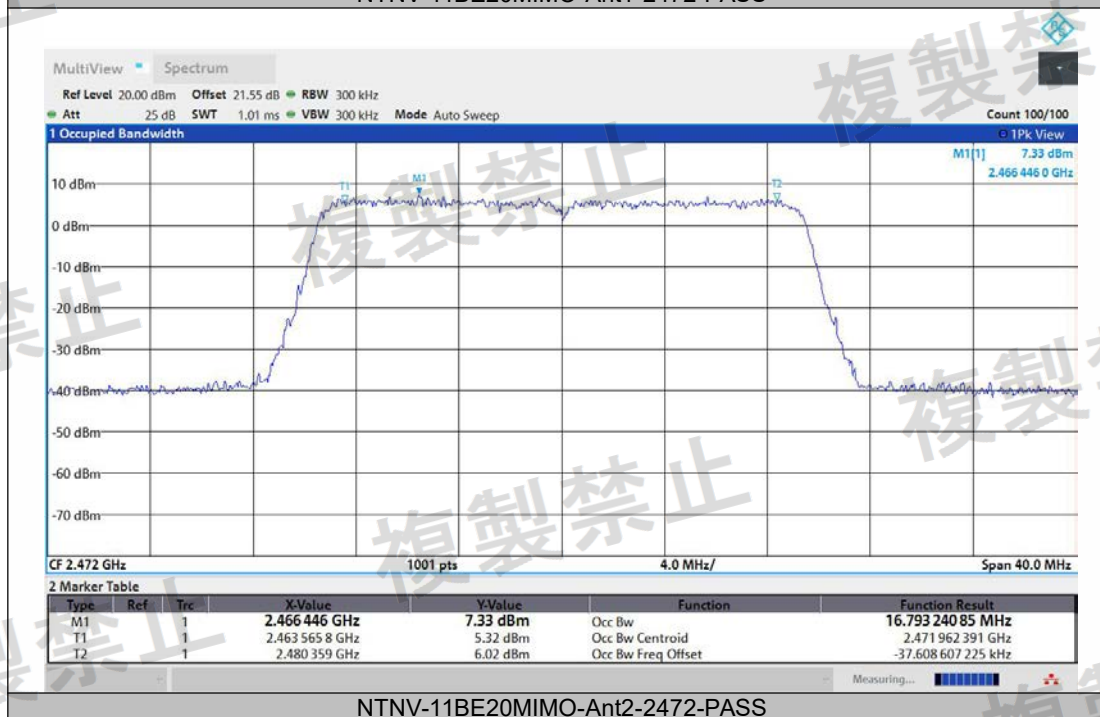
NTNV-11BE20MIMO-Ant1-2442-PASS



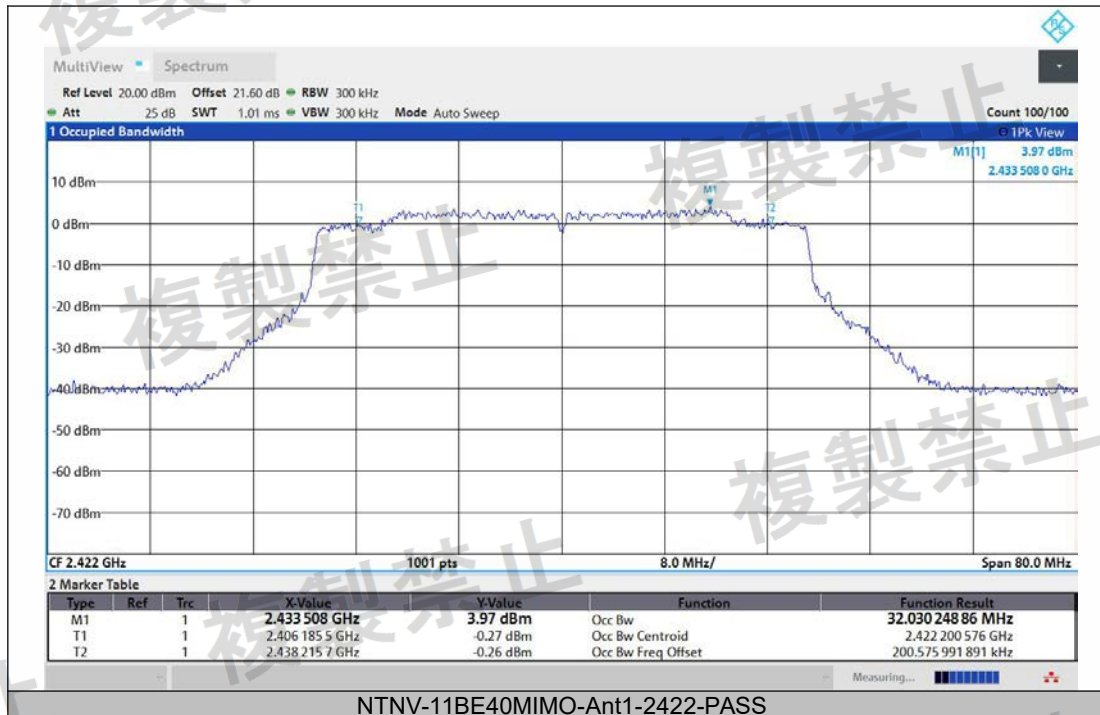
NTNV-11BE20MIMO-Ant2-2442-PASS

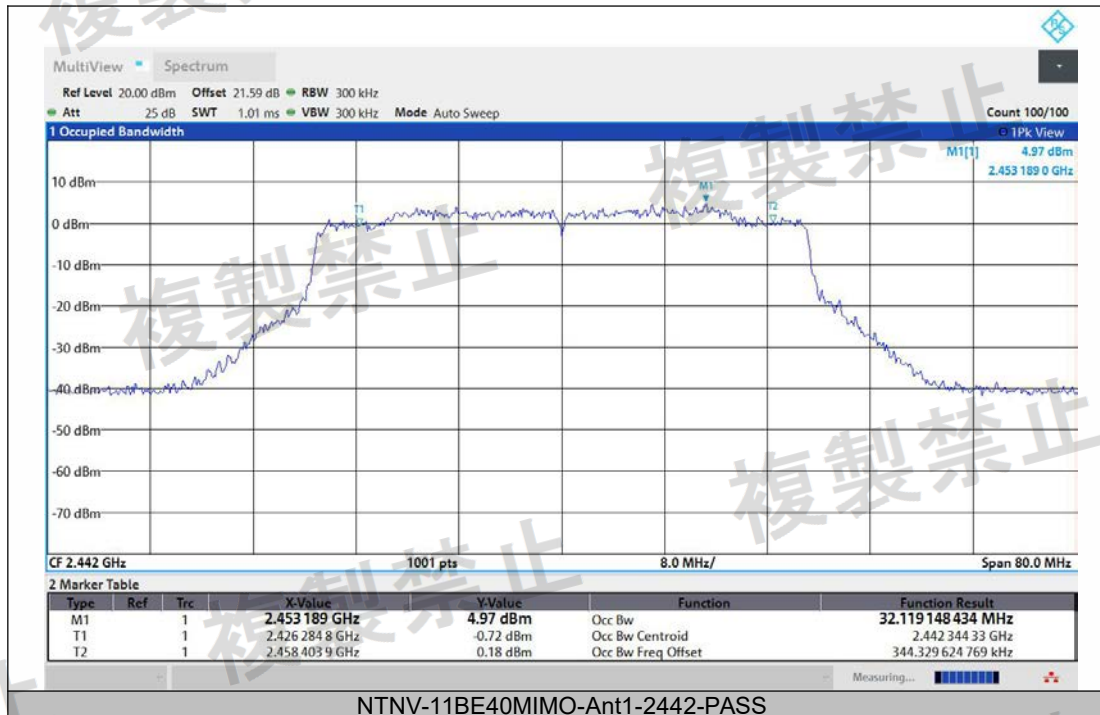


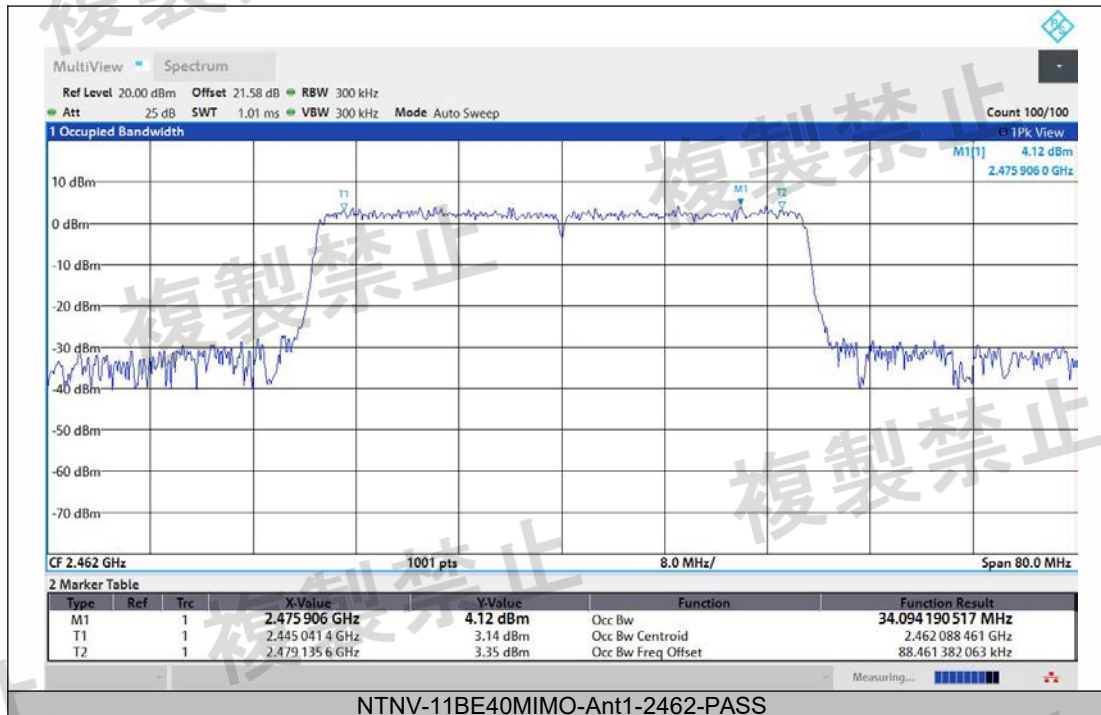
NTNV-11BE20MIMO-Ant1-2472-PASS



NTNV-11BE20MIMO-Ant2-2472-PASS







7.4 SPURIOUS EMISSIONS OF TX

7.4.1 Applicable Standard

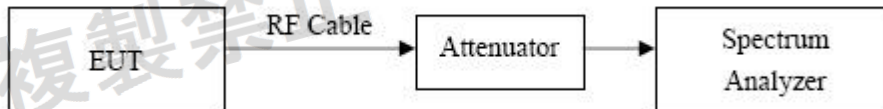
According to Item 19 of Article 2 Paragraph 1.

7.4.2 Conformance Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

- (1) Below 2387MHz: $2.5\mu\text{W}/\text{MHz}$ (-26dB)
- (2) 2387 to 2400MHz: $25\mu\text{W}/\text{MHz}$ (-16dB)
- (3) 2483.5 through 2496.5MHz: $25\mu\text{W}/\text{MHz}$ (-16dB)
- (4) Over 2496.5MHz: $2.5\mu\text{W}/\text{MHz}$ (-26dB)

7.4.3 Test Setup Block Diagram



7.4.4 Test Procedure

(1) Spectrum analyzer for seeking the spurious emission is set as below

Sweeping Bandwidth	For seeking the spurious emission, from frequency lowest possible to the 5 times the carrier frequency
Resolution Bandwidth	1 MHz
Video Bandwidth	Approx. As same as Resolution bandwidth (1 MHz)
Y-Axis Scale	10 dB/Div
Input Level	Value of maximum dynamic range
Sweep Time	Minimum time to assure the measurement accuracy (Note 1)
Sweep Mode	Single sweep
Phase-Detection Mode	Positive peak

(2) The settings of the spectrum analyzer while conducting spurious amplitude measurements are as follows:

- Central Frequency: Acquired spurious frequencies in (1)
- Sweep Frequency 0 Hz
- Resolution Bandwidth 1 MHz
- Video Bandwidth same as Resolution Bandwidth
- Note: take into account that the requirement limits the power in a bandwidth of 1 MHz.
- If the measurement is carried out with a bandwidth of 100 kHz (for frequencies below 1 GHz), the limit shall be reduced with 10 dB.
- For example 2.5 uW in 1 MHz = -26 dBm limit, becomes -36 dBm for 100 kHz bandwidth.
- Y-Axis Scale 10 dB/Div
- Input Level: choose input level within the linear range of the SA mixer (so that no additional spurious are generated by the mixer)
- Sweep Time: Minimum amount of time to ensure measurement accuracy. However, in the case of burst waves, time exceeds duration of 1 burst.
- Data Points Over 400 points
- Sweep Mode: Single sweep

- Detection Mode Sample (BIN-Width $\ll$ RBW, so that all spurious emissions are captured) [BIN-width is the frequency difference between 2 adjacent sample points on the display]

(3) Set EUT as occupied bandwidth is measure. That is, Set the EUT on the test frequency and the continuous

TX mode or continuous (constant period, constant burst length) burst TX mode. In case of spreading code used, set on the test spreading code, then the modulation is performed with standard coding test signal.

The spectrum analyzer is set as 2 (1). Seek the spurious emission. If the amplitude of the sought spurious emission satisfies the specified value (in case of 2 (2) Note 1, the specified value is -3dB), the measurement of 2 (2) is not performed, then the estimated value is employed as the measured value.

In case the sought spurious emission amplitude exceeds the specified value, seek the spurious frequency by narrowing the sweeping band sequentially as 100 MHz, 10 MHz, 1 MHz for the purpose of higher accuracy of the spectrum analyzer. Set the spectrum analyzer as 2 (2). Estimate the mean value of the spurious amplitude, then employ it as the measured value (In case DSSS as well as OFDM with burst wave, the mean inside of the burst).

Sweep Bandwidth: 30MHz~2387MHz, 2483.5MHz~2496.5MHz, 2496.5MHz~12500MHz

Respectively mark the maximum results in the above sweep bandwidth.

7.4.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

7.4.6 Test Results

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~2387	31.47	-33.40	≤-26	0.45709	≤2.5	PASS
NTNV	11B	Ant2	2412	30~2387	34.12	-34.67	≤-26	0.34119	≤2.5	PASS
NTNV	11B	Ant1	2412	2387~2400	2392.72	-35.94	≤-16	0.25468	≤25	PASS
NTNV	11B	Ant2	2412	2387~2400	2396.11	-34.26	≤-16	0.37497	≤25	PASS
NTNV	11B	Ant1	2412	2483.5~2496.5	2492.14	-36.04	≤-16	0.24889	≤25	PASS
NTNV	11B	Ant2	2412	2483.5~2496.5	2485.19	-36.43	≤-16	0.22751	≤25	PASS
NTNV	11B	Ant1	2412	2496.5~13000	7492.21	-31.25	≤-26	0.74989	≤2.5	PASS
NTNV	11B	Ant2	2412	2496.5~13000	7462.80	-31.14	≤-26	0.76913	≤2.5	PASS
NTNV	11B	Ant1	2442	30~2387	35.01	-35.12	≤-26	0.30761	≤2.5	PASS
NTNV	11B	Ant2	2442	30~2387	30.29	-35.22	≤-26	0.30061	≤2.5	PASS
NTNV	11B	Ant1	2442	2387~2400	2388.76	-36.84	≤-16	0.20701	≤25	PASS
NTNV	11B	Ant2	2442	2387~2400	2393.57	-36.13	≤-16	0.24378	≤25	PASS
NTNV	11B	Ant1	2442	2483.5~2496.5	2491.13	-36.91	≤-16	0.20370	≤25	PASS
NTNV	11B	Ant2	2442	2483.5~2496.5	2487.31	-35.59	≤-16	0.27606	≤25	PASS
NTNV	11B	Ant1	2442	2496.5~13000	7467.00	-31.42	≤-26	0.72111	≤2.5	PASS
NTNV	11B	Ant2	2442	2496.5~13000	7466.48	-32.29	≤-26	0.59020	≤2.5	PASS
NTNV	11B	Ant1	2472	30~2387	32.36	-35.23	≤-26	0.29992	≤2.5	PASS
NTNV	11B	Ant2	2472	30~2387	30.59	-34.53	≤-26	0.35237	≤2.5	PASS
NTNV	11B	Ant1	2472	2387~2400	2397.70	-36.58	≤-16	0.21979	≤25	PASS
NTNV	11B	Ant2	2472	2387~2400	2392.25	-36.67	≤-16	0.21528	≤25	PASS
NTNV	11B	Ant1	2472	2483.5~2496.5	2486.83	-34.95	≤-16	0.31989	≤25	PASS
NTNV	11B	Ant2	2472	2483.5~2496.5	2486.95	-35.71	≤-16	0.26853	≤25	PASS
NTNV	11B	Ant1	2472	2496.5~13000	7424.99	-32.03	≤-26	0.62661	≤2.5	PASS
NTNV	11B	Ant2	2472	2496.5~13000	6232.78	-32.17	≤-26	0.60674	≤2.5	PASS
NTNV	11G	Ant1	2412	30~2387	32.36	-35.17	≤-26	0.30409	≤2.5	PASS
NTNV	11G	Ant2	2412	30~2387	32.65	-35.02	≤-26	0.31477	≤2.5	PASS
NTNV	11G	Ant1	2412	2387~2400	2400	-11.69	≤-16	67.76415	≤25	See table below
NTNV	11G	Ant2	2412	2387~2400	2395.94	-2.16	≤-16	608.13500	≤25	See table below
NTNV	11G	Ant1	2412	2483.5~2496.5	2492.59	-36.01	≤-16	0.25061	≤25	PASS
NTNV	11G	Ant2	2412	2483.5~2496.5	2483.97	-36.42	≤-16	0.22803	≤25	PASS
NTNV	11G	Ant1	2412	2496.5~13000	7379.82	-31.47	≤-26	0.71285	≤2.5	PASS
NTNV	11G	Ant2	2412	2496.5~13000	7446.52	-31.59	≤-26	0.69343	≤2.5	PASS
NTNV	11G	Ant1	2442	30~2387	33.83	-34.53	≤-26	0.35237	≤2.5	PASS
NTNV	11G	Ant2	2442	30~2387	35.60	-34.92	≤-26	0.32211	≤2.5	PASS
NTNV	11G	Ant1	2442	2387~2400	2388.82	-36.18	≤-16	0.24099	≤25	PASS
NTNV	11G	Ant2	2442	2387~2400	2394.67	-36.23	≤-16	0.23823	≤25	PASS
NTNV	11G	Ant1	2442	2483.5~2496.5	2484.83	-36.67	≤-16	0.21528	≤25	PASS
NTNV	11G	Ant2	2442	2483.5~2496.5	2496.03	-36.65	≤-16	0.21627	≤25	PASS
NTNV	11G	Ant1	2442	2496.5~13000	7474.36	-31.65	≤-26	0.68391	≤2.5	PASS

NTNV	11G	Ant2	2442	2496.5~13000	7486.96	-31.78	≤-26	0.66374	≤2.5	PASS
NTNV	11G	Ant1	2472	30~2387	32.36	-35.32	≤-26	0.29376	≤2.5	PASS
NTNV	11G	Ant2	2472	30~2387	34.42	-34.43	≤-26	0.36058	≤2.5	PASS
NTNV	11G	Ant1	2472	2387~2400	2395.20	-36.52	≤-16	0.22284	≤25	PASS
NTNV	11G	Ant2	2472	2387~2400	2393.61	-36.37	≤-16	0.23067	≤25	PASS
NTNV	11G	Ant1	2472	2483.5~2496.5	2484.21	-14.04	≤-16	39.44573	≤25	See table below
NTNV	11G	Ant2	2472	2483.5~2496.5	2483.82	-17.19	≤-16	19.09853	≤25	See table below
NTNV	11G	Ant1	2472	2496.5~13000	7459.65	-31.38	≤-26	0.72778	≤2.5	PASS
NTNV	11G	Ant2	2472	2496.5~13000	7391.90	-32.27	≤-26	0.59293	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2412	30~2387	33.24	-34.15	≤-26	0.38459	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2412	30~2387	35.01	-34.30	≤-26	0.37154	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2412	2387~2400	2399.92	-11.20	≤-16	75.85776	≤25	See table below
NTNV	11N20MIMO	Ant2	2412	2387~2400	2399.99	-10.70	≤-16	85.11380	≤25	See table below
NTNV	11N20MIMO	Ant1	2412	2483.5~2496.5	2485.04	-36.57	≤-16	0.22029	≤25	PASS
NTNV	11N20MIMO	Ant2	2412	2483.5~2496.5	2484.99	-36.35	≤-16	0.23174	≤25	PASS
NTNV	11N20MIMO	Ant1	2412	2496.5~13000	7495.89	-31.92	≤-26	0.64269	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2412	2496.5~13000	7451.77	-31.51	≤-26	0.70632	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2442	30~2387	35.01	-34.98	≤-26	0.31769	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2442	30~2387	31.47	-34.33	≤-26	0.36898	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2442	2387~2400	2392.60	-36.62	≤-16	0.21777	≤25	PASS
NTNV	11N20MIMO	Ant2	2442	2387~2400	2397.28	-36.54	≤-16	0.22182	≤25	PASS
NTNV	11N20MIMO	Ant1	2442	2483.5~2496.5	2496.24	-35.88	≤-16	0.25823	≤25	PASS
NTNV	11N20MIMO	Ant2	2442	2483.5~2496.5	2493.81	-36.66	≤-16	0.21577	≤25	PASS
NTNV	11N20MIMO	Ant1	2442	2496.5~13000	7484.86	-31.22	≤-26	0.75509	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2442	2496.5~13000	6928.67	-31.67	≤-26	0.68077	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2472	30~2387	32.65	-35.35	≤-26	0.29174	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2472	30~2387	34.12	-34.24	≤-26	0.37670	≤2.5	PASS
NTNV	11N20MIMO	Ant1	2472	2387~2400	2389.23	-36.55	≤-16	0.22131	≤25	PASS
NTNV	11N20MIMO	Ant2	2472	2387~2400	2397.81	-36.26	≤-16	0.23659	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2483.5~2496.5	2487.21	-17.38	≤-16	18.28100	≤25	See table below
NTNV	11N20MIMO	Ant2	2472	2483.5~2496.5	2487.67	-23.40	≤-16	4.57088	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2496.5~13000	7428.67	-31.97	≤-26	0.63533	≤2.5	PASS
NTNV	11N20MIMO	Ant2	2472	2496.5~13000	7401.88	-32.48	≤-26	0.56494	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2422	30~2387	35.01	-34.25	≤-26	0.37584	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2422	30~2387	35.60	-35.21	≤-26	0.30130	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2422	2387~2400	2399.99	-16.39	≤-16	22.96149	≤25	See table below
NTNV	11N40MIMO	Ant2	2422	2387~2400	2399.9	-15.81	≤-16	26.24219	≤25	See table below
NTNV	11N40MIMO	Ant1	2422	2483.5~2496.5	2483.73	-36.31	≤-16	0.23388	≤25	PASS
NTNV	11N40MIMO	Ant2	2422	2483.5~2496.5	2486.10	-35.83	≤-16	0.26122	≤25	PASS
NTNV	11N40MIMO	Ant1	2422	2496.5~13000	7443.90	-31.73	≤-26	0.67143	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2422	2496.5~13000	7482.24	-32.25	≤-26	0.59566	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2442	30~2387	35.01	-35.03	≤-26	0.31405	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2442	30~2387	31.77	-35.03	≤-26	0.31405	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2442	2387~2400	2396.16	-36.03	≤-16	0.24946	≤25	PASS
NTNV	11N40MIMO	Ant2	2442	2387~2400	2388.27	-36.47	≤-16	0.22542	≤25	PASS
NTNV	11N40MIMO	Ant1	2442	2483.5~2496.5	2486.63	-35.94	≤-16	0.25468	≤25	PASS
NTNV	11N40MIMO	Ant2	2442	2483.5~2496.5	2484.52	-35.88	≤-16	0.25823	≤25	PASS
NTNV	11N40MIMO	Ant1	2442	2496.5~13000	7484.34	-31.50	≤-26	0.70795	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2442	2496.5~13000	7459.13	-31.66	≤-26	0.68234	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2462	30~2387	32.36	-35.11	≤-26	0.30832	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2462	30~2387	32.06	-35.07	≤-26	0.31117	≤2.5	PASS
NTNV	11N40MIMO	Ant1	2462	2387~2400	2395.84	-31.58	≤-16	0.69502	≤25	PASS
NTNV	11N40MIMO	Ant2	2462	2387~2400	2395.25	-34.14	≤-16	0.38548	≤25	PASS
NTNV	11N40MIMO	Ant1	2462	2483.5~2496.5	2483.83	-17.01	≤-16	19.90673	≤25	See table below
NTNV	11N40MIMO	Ant2	2462	2483.5~2496.5	2489.65	-23.35	≤-16	4.62381	≤25	PASS
NTNV	11N40MIMO	Ant1	2462	2496.5~13000	7458.08	-32.27	≤-26	0.59293	≤2.5	PASS
NTNV	11N40MIMO	Ant2	2462	2496.5~13000	7494.84	-32.07	≤-26	0.62087	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2412	30~2387	31.18	-35.27	≤-26	0.29717	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2412	30~2387	35.01	-34.67	≤-26	0.34119	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2412	2387~2400	2399.69	-10.88	≤-16	81.65824	≤25	See table below
NTNV	11AX20MIMO	Ant2	2412	2387~2400	2399.99	-10.07	≤-16	98.40111	≤25	See table below
NTNV	11AX20MIMO	Ant1	2412	2483.5~2496.5	2486.15	-36.60	≤-16	0.21878	≤25	PASS
NTNV	11AX20MIMO	Ant2	2412	2483.5~2496.5	2485.33	-35.50	≤-16	0.28184	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2496.5~13000	7433.39	-30.47	≤-26	0.89743	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2412	2496.5~13000	7450.72	-31.42	≤-26	0.72111	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2442	30~2387	34.12	-34.43	≤-26	0.36058	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2442	30~2387	35.60	-34.59	≤-26	0.34754	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2442	2387~2400	2392.63	-36.75	≤-16	0.21135	≤25	PASS

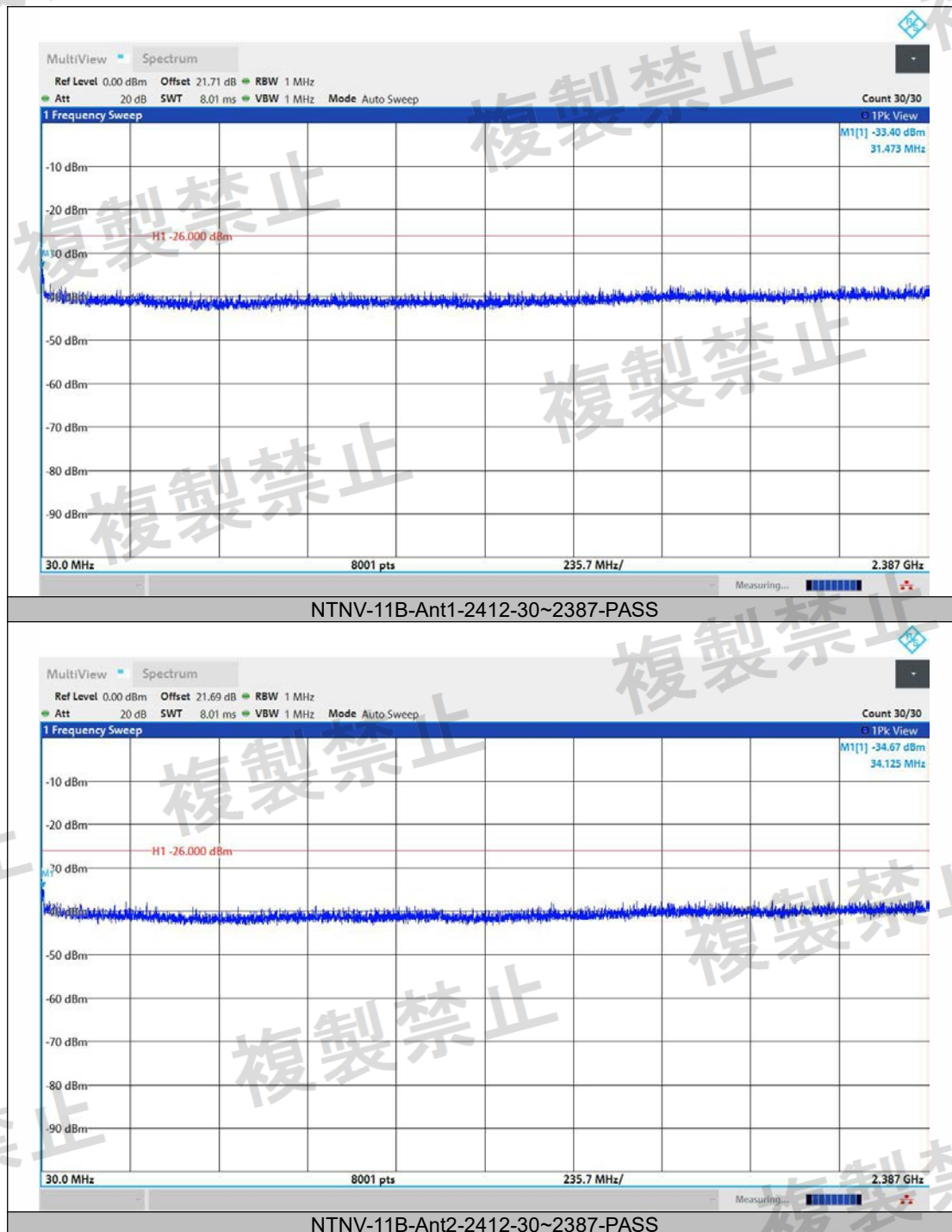
NTNV	11AX20MIMO	Ant2	2442	2387~2400	2398.93	-36.73	≤-16	0.21232	≤25	PASS
NTNV	11AX20MIMO	Ant1	2442	2483.5~2496.5	2484.75	-37.05	≤-16	0.19724	≤25	PASS
NTNV	11AX20MIMO	Ant2	2442	2483.5~2496.5	2484.00	-36.52	≤-16	0.22284	≤25	PASS
NTNV	11AX20MIMO	Ant1	2442	2496.5~13000	7473.83	-31.90	≤-26	0.64565	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2442	2496.5~13000	7335.70	-31.73	≤-26	0.67143	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2472	30~2387	33.54	-34.33	≤-26	0.36898	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2472	30~2387	35.30	-34.64	≤-26	0.34356	≤2.5	PASS
NTNV	11AX20MIMO	Ant1	2472	2387~2400	2387.86	-36.89	≤-16	0.20464	≤25	PASS
NTNV	11AX20MIMO	Ant2	2472	2387~2400	2390.57	-36.54	≤-16	0.22182	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2483.5~2496.5	2484.48	-17.14	≤-16	19.31968	≤25	See table below
NTNV	11AX20MIMO	Ant2	2472	2483.5~2496.5	2483.53	-21.98	≤-16	6.33870	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2496.5~13000	7423.94	-31.59	≤-26	0.69343	≤2.5	PASS
NTNV	11AX20MIMO	Ant2	2472	2496.5~13000	7412.38	-32.11	≤-26	0.61518	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2422	30~2387	32.36	-35.14	≤-26	0.30620	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2422	30~2387	30.88	-35.15	≤-26	0.30549	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2422	2387~2400	2399.93	-14.39	≤-16	36.39150	≤25	See table below
NTNV	11AX40MIMO	Ant2	2422	2387~2400	2399.82	-15.19	≤-16	30.26913	≤25	See table below
NTNV	11AX40MIMO	Ant1	2422	2483.5~2496.5	2493.30	-35.57	≤-16	0.27733	≤25	PASS
NTNV	11AX40MIMO	Ant2	2422	2483.5~2496.5	2483.67	-36.35	≤-16	0.23174	≤25	PASS
NTNV	11AX40MIMO	Ant1	2422	2496.5~13000	7461.75	-32.18	≤-26	0.60534	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2422	2496.5~13000	7448.10	-31.34	≤-26	0.73451	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2442	30~2387	32.36	-35.50	≤-26	0.28184	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2442	30~2387	32.36	-34.87	≤-26	0.32584	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2442	2387~2400	2387.10	-35.84	≤-16	0.26062	≤25	PASS
NTNV	11AX40MIMO	Ant2	2442	2387~2400	2390.65	-36.34	≤-16	0.23227	≤25	PASS
NTNV	11AX40MIMO	Ant1	2442	2483.5~2496.5	2490.55	-35.95	≤-16	0.25410	≤25	PASS
NTNV	11AX40MIMO	Ant2	2442	2483.5~2496.5	2493.14	-35.63	≤-16	0.27353	≤25	PASS
NTNV	11AX40MIMO	Ant1	2442	2496.5~13000	7470.16	-32.04	≤-26	0.62517	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2442	2496.5~13000	7482.76	-31.38	≤-26	0.72778	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2462	30~2387	34.42	-34.67	≤-26	0.34119	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2462	30~2387	35.60	-34.49	≤-26	0.35563	≤2.5	PASS
NTNV	11AX40MIMO	Ant1	2462	2387~2400	2399.17	-29.44	≤-16	1.13763	≤25	PASS
NTNV	11AX40MIMO	Ant2	2462	2387~2400	2398.46	-29.87	≤-16	1.03039	≤25	PASS
NTNV	11AX40MIMO	Ant1	2462	2483.5~2496.5	2483.92	-17.98	≤-16	15.92209	≤25	See table below
NTNV	11AX40MIMO	Ant2	2462	2483.5~2496.5	2484.88	-21.36	≤-16	7.31139	≤25	PASS
NTNV	11AX40MIMO	Ant1	2462	2496.5~13000	7474.88	-31.85	≤-26	0.65313	≤2.5	PASS
NTNV	11AX40MIMO	Ant2	2462	2496.5~13000	7495.89	-31.22	≤-26	0.75509	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2412	30~2387	35.60	-34.66	≤-26	0.34198	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2412	30~2387	33.24	-34.22	≤-26	0.37844	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2412	2387~2400	2399.54	-10.60	≤-16	87.09636	≤25	See table below
NTNV	11BE20MIMO	Ant2	2412	2387~2400	2399.97	-10.03	≤-16	99.31160	≤25	See table below
NTNV	11BE20MIMO	Ant1	2412	2483.5~2496.5	2496.11	-36.39	≤-16	0.22961	≤25	PASS
NTNV	11BE20MIMO	Ant2	2412	2483.5~2496.5	2496.13	-36.68	≤-16	0.21478	≤25	PASS
NTNV	11BE20MIMO	Ant1	2412	2496.5~13000	7461.23	-31.69	≤-26	0.67764	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2412	2496.5~13000	7442.85	-32.02	≤-26	0.62806	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2442	30~2387	33.54	-33.15	≤-26	0.48417	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2442	30~2387	32.36	-35.14	≤-26	0.30620	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2442	2387~2400	2393.10	-36.70	≤-16	0.21380	≤25	PASS
NTNV	11BE20MIMO	Ant2	2442	2387~2400	2396.99	-36.29	≤-16	0.23496	≤25	PASS
NTNV	11BE20MIMO	Ant1	2442	2483.5~2496.5	2496.00	-36.37	≤-16	0.23067	≤25	PASS
NTNV	11BE20MIMO	Ant2	2442	2483.5~2496.5	2488.80	-36.00	≤-16	0.25119	≤25	PASS
NTNV	11BE20MIMO	Ant1	2442	2496.5~13000	7474.88	-32.55	≤-26	0.55590	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2442	2496.5~13000	7470.16	-31.32	≤-26	0.73790	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2472	30~2387	33.83	-35.54	≤-26	0.27925	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2472	30~2387	34.71	-35.33	≤-26	0.29309	≤2.5	PASS
NTNV	11BE20MIMO	Ant1	2472	2387~2400	2388.25	-36.36	≤-16	0.23121	≤25	PASS
NTNV	11BE20MIMO	Ant2	2472	2387~2400	2394.07	-37.00	≤-16	0.19953	≤25	PASS
NTNV	11BE20MIMO	Ant1	2472	2483.5~2496.5	2485.5	-16.62	≤-16	21.77710	≤25	See table below
NTNV	11BE20MIMO	Ant2	2472	2483.5~2496.5	2487.85	-16.72	≤-16	21.28139	≤25	See table below
NTNV	11BE20MIMO	Ant1	2472	2496.5~13000	7495.37	-32.17	≤-26	0.60674	≤2.5	PASS
NTNV	11BE20MIMO	Ant2	2472	2496.5~13000	7463.33	-31.72	≤-26	0.67298	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2422	30~2387	34.42	-35.62	≤-26	0.27416	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2422	30~2387	32.06	-35.07	≤-26	0.31117	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2422	2387~2400	2399.97	-14.92	≤-16	32.21069	≤25	See table below
NTNV	11BE40MIMO	Ant2	2422	2387~2400	2399.92	-12.41	≤-16	57.41165	≤25	See table below
NTNV	11BE40MIMO	Ant1	2422	2483.5~2496.5	2491.88	-36.28	≤-16	0.23550	≤25	PASS
NTNV	11BE40MIMO	Ant2	2422	2483.5~2496.5	2489.88	-36.15	≤-16	0.24266	≤25	PASS
NTNV	11BE40MIMO	Ant1	2422	2496.5~13000	7486.44	-31.64	≤-26	0.68549	≤2.5	PASS

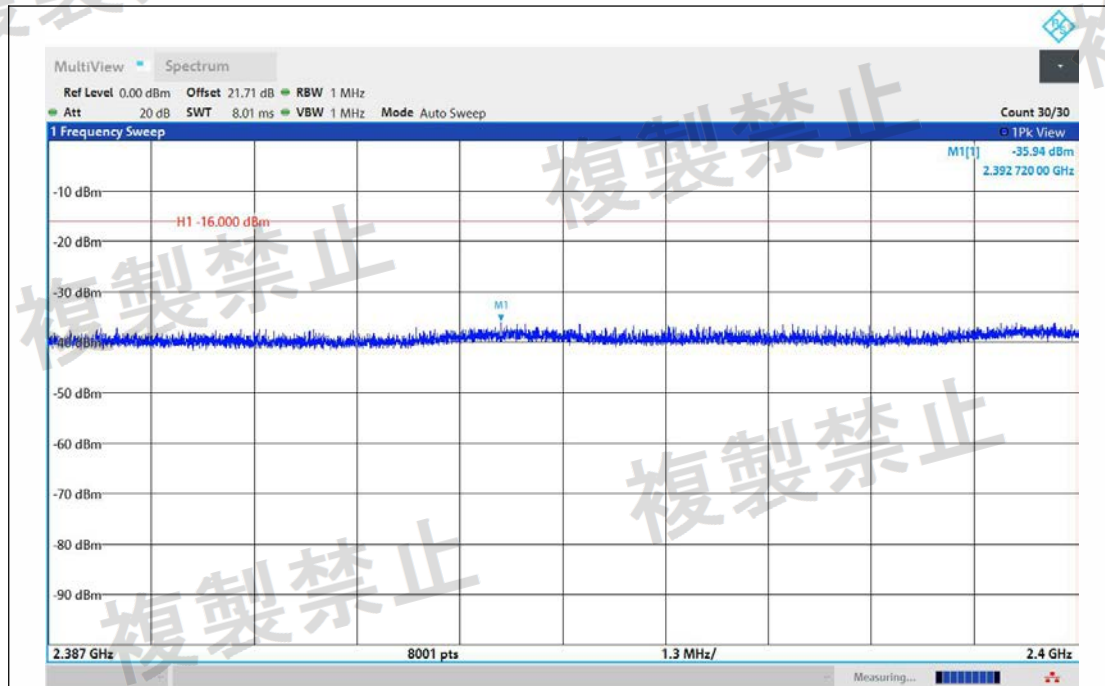
NTNV	11BE40MIMO	Ant2	2422	2496.5~13000	7359.34	-31.20	≤-26	0.75858	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2442	30~2387	35.01	-33.57	≤-26	0.43954	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2442	30~2387	32.36	-35.01	≤-26	0.31550	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2442	2387~2400	2397.56	-36.72	≤-16	0.21281	≤25	PASS
NTNV	11BE40MIMO	Ant2	2442	2387~2400	2391.48	-36.55	≤-16	0.22131	≤25	PASS
NTNV	11BE40MIMO	Ant1	2442	2483.5~2496.5	2486.14	-36.47	≤-16	0.22542	≤25	PASS
NTNV	11BE40MIMO	Ant2	2442	2483.5~2496.5	2495.41	-35.74	≤-16	0.26669	≤25	PASS
NTNV	11BE40MIMO	Ant1	2442	2496.5~13000	6958.08	-31.85	≤-26	0.65313	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2442	2496.5~13000	7430.24	-31.70	≤-26	0.67608	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2462	30~2387	35.30	-35.30	≤-26	0.29512	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2462	30~2387	31.47	-34.52	≤-26	0.35318	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2462	2387~2400	2397.66	-29.23	≤-16	1.19399	≤25	PASS
NTNV	11BE40MIMO	Ant2	2462	2387~2400	2397.78	-32.10	≤-16	0.61660	≤25	PASS
NTNV	11BE40MIMO	Ant1	2462	2483.5~2496.5	2488.39	-16.80	≤-16	20.89296	≤25	See table below
NTNV	11BE40MIMO	Ant2	2462	2483.5~2496.5	2483.85	-17.47	≤-16	17.90606	≤25	See table below
NTNV	11BE40MIMO	Ant1	2462	2496.5~13000	2498.08	-27.35	≤-26	1.84077	≤2.5	See table below
NTNV	11BE40MIMO	Ant2	2462	2496.5~13000	2500.18	-25.05	≤-26	3.12608	≤2.5	See table below

Test Result_Step2

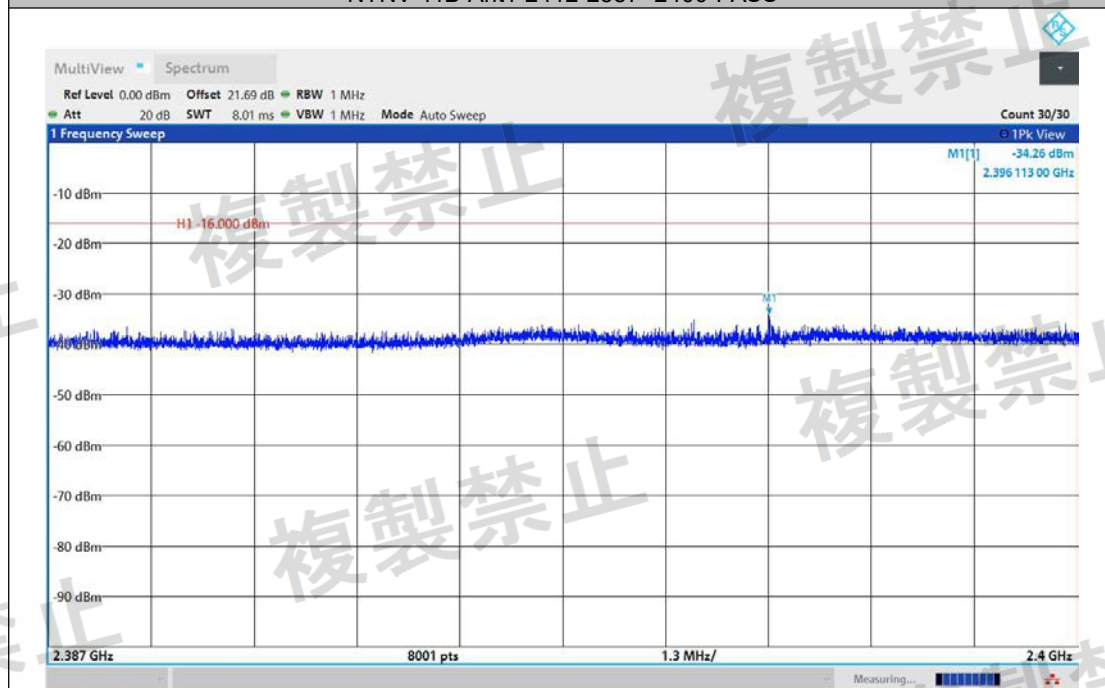
TestCon dition	TestMode	Antenn a	Frequen cy[MHz]	Freq. [MHz]	Result [dBm]	Gain [dBi]	EIRP Result [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11G	Ant1	2412	2399.99	-25.01	0	-25.01	3.15500	≤25	PASS
NTNV	11G	Ant2	2412	2398.39	-30.75	0	-30.75	0.84140	≤25	PASS
NTNV	11G	Ant1	2472	2483.60	-42.88	0	-42.88	0.05152	≤25	PASS
NTNV	11G	Ant2	2472	2483.66	-44.52	0	-44.52	0.03532	≤25	PASS
NTNV	11N20MIMO	Ant1	2412	2399.98	-25.12	0	-25.12	3.07610	≤25	PASS
NTNV	11N20MIMO	Ant2	2412	2399.94	-25.23	0	-25.23	2.99916	≤25	PASS
NTNV	11N20MIMO	Ant1	2412	2399.98	-24.36	0	-24.36	3.66438	≤25	PASS
NTNV	11N20MIMO	Ant2	2412	2399.94	-24.47	0	-24.47	3.57273	≤25	PASS
NTNV	11N20MIMO	Ant1	2412	2399.98	---	---	---	6.74048	≤25	PASS
NTNV	11N20MIMO	Ant2	2412	2399.94	---	---	---	6.57189	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2484.78	-45.78	0	-45.78	0.02642	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2484.78	-45.82	0	-45.82	0.02618	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2484.78	---	---	---	0.05260	≤25	PASS
NTNV	11N40MIMO	Ant1	2422	2399.88	-29.10	0	-29.10	1.23027	≤25	PASS
NTNV	11N40MIMO	Ant2	2422	2399.99	-28.73	0	-28.73	1.33968	≤25	PASS
NTNV	11N40MIMO	Ant1	2422	2399.88	-28.40	0	-28.40	1.44544	≤25	PASS
NTNV	11N40MIMO	Ant2	2422	2399.99	-28.07	0	-28.07	1.55955	≤25	PASS
NTNV	11N40MIMO	Ant1	2422	2399.88	---	---	---	2.67571	≤25	PASS
NTNV	11N40MIMO	Ant2	2422	2399.99	---	---	---	2.89923	≤25	PASS
NTNV	11N40MIMO	Ant1	2462	2483.56	-43.08	0	-43.08	0.04920	≤25	PASS
NTNV	11N40MIMO	Ant1	2462	2483.56	-43.25	0	-43.25	0.04732	≤25	PASS
NTNV	11N40MIMO	Ant1	2462	2483.56	---	---	---	0.09652	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.66	-26.02	0	-26.02	2.50035	≤25	PASS
NTNV	11AX20MIMO	Ant2	2412	2399.81	-25.72	0	-25.72	2.67917	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.66	-25.33	0	-25.33	2.93089	≤25	PASS
NTNV	11AX20MIMO	Ant2	2412	2399.81	-24.80	0	-24.80	3.31131	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.66	---	---	---	5.43124	≤25	PASS
NTNV	11AX20MIMO	Ant2	2412	2399.81	---	---	---	5.99048	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2484.35	-45.24	0	-45.24	0.02992	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2484.35	-45.51	0	-45.51	0.02812	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2484.35	---	---	---	0.05804	≤25	PASS
NTNV	11AX40MIMO	Ant1	2422	2399.87	-28.92	0	-28.92	1.28233	≤25	PASS
NTNV	11AX40MIMO	Ant2	2422	2400.00	-28.67	0	-28.67	1.35831	≤25	PASS
NTNV	11AX40MIMO	Ant1	2422	2399.87	-28.47	0	-28.47	1.42233	≤25	PASS
NTNV	11AX40MIMO	Ant2	2422	2400.00	-28.09	0	-28.09	1.55239	≤25	PASS
NTNV	11AX40MIMO	Ant1	2422	2399.87	---	---	---	2.70466	≤25	PASS
NTNV	11AX40MIMO	Ant2	2422	2400.00	---	---	---	2.91070	≤25	PASS
NTNV	11AX40MIMO	Ant1	2462	2483.75	-44.15	0	-44.15	0.03846	≤25	PASS
NTNV	11AX40MIMO	Ant1	2462	2483.75	-44.98	0	-44.98	0.03177	≤25	PASS
NTNV	11AX40MIMO	Ant1	2462	2483.75	---	---	---	0.07023	≤25	PASS
NTNV	11BE20MIMO	Ant1	2412	2399.80	-25.71	0	-25.71	2.68534	≤25	PASS
NTNV	11BE20MIMO	Ant2	2412	2399.64	-26.30	0	-26.30	2.34423	≤25	PASS
NTNV	11BE20MIMO	Ant1	2412	2399.80	-25.09	0	-25.09	3.09742	≤25	PASS

NTNV	11BE20MIMO	Ant2	2412	2399.64	-25.37	0	-25.37	2.90402	≤25	PASS
NTNV	11BE20MIMO	Ant1	2412	2399.80	---	---	---	5.78276	≤25	PASS
NTNV	11BE20MIMO	Ant2	2412	2399.64	---	---	---	5.24825	≤25	PASS
NTNV	11BE20MIMO	Ant1	2472	2486.01	-45.08	0	-45.08	0.03105	≤25	PASS
NTNV	11BE20MIMO	Ant2	2472	2489.12	-46.83	0	-46.83	0.02075	≤25	PASS
NTNV	11BE20MIMO	Ant1	2472	2486.01	-46.69	0	-46.69	0.02143	≤25	PASS
NTNV	11BE20MIMO	Ant2	2472	2489.12	-47.40	0	-47.40	0.01820	≤25	PASS
NTNV	11BE20MIMO	Ant1	2472	2486.01	---	---	---	0.05248	≤25	PASS
NTNV	11BE20MIMO	Ant2	2472	2489.12	---	---	---	0.03895	≤25	PASS
NTNV	11BE40MIMO	Ant1	2422	2399.98	-28.79	0	-28.79	1.32130	≤25	PASS
NTNV	11BE40MIMO	Ant2	2422	2399.60	-29.51	0	-29.51	1.11944	≤25	PASS
NTNV	11BE40MIMO	Ant1	2422	2399.98	-28.11	0	-28.11	1.54525	≤25	PASS
NTNV	11BE40MIMO	Ant2	2422	2399.60	-28.83	0	-28.83	1.30918	≤25	PASS
NTNV	11BE40MIMO	Ant1	2422	2399.98	---	---	---	2.86655	≤25	PASS
NTNV	11BE40MIMO	Ant2	2422	2399.60	---	---	---	2.42862	≤25	PASS
NTNV	11BE40MIMO	Ant1	2462	2486.15	-42.55	0	-42.55	0.05559	≤25	PASS
NTNV	11BE40MIMO	Ant2	2462	2483.50	-34.20	0	-34.20	0.38019	≤25	PASS
NTNV	11BE40MIMO	Ant1	2462	2486.15	-46.45	0	-46.45	0.02265	≤25	PASS
NTNV	11BE40MIMO	Ant2	2462	2483.50	-43.38	0	-43.38	0.04592	≤25	PASS
NTNV	11BE40MIMO	Ant1	2462	2486.15	---	---	---	0.07824	≤25	PASS
NTNV	11BE40MIMO	Ant2	2462	2483.50	---	---	---	0.42611	≤25	PASS
NTNV	11BE40MIMO	Ant1	2462	2496.67	-42.35	0	-42.35	0.05821	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2462	2498.06	-42.21	0	-42.21	0.06012	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2462	2496.67	-47.37	0	-47.37	0.01832	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2462	2498.06	-47.46	0	-47.46	0.01795	≤2.5	PASS
NTNV	11BE40MIMO	Ant1	2462	2496.67	---	---	---	0.07653	≤2.5	PASS
NTNV	11BE40MIMO	Ant2	2462	2498.06	---	---	---	0.07807	≤2.5	PASS

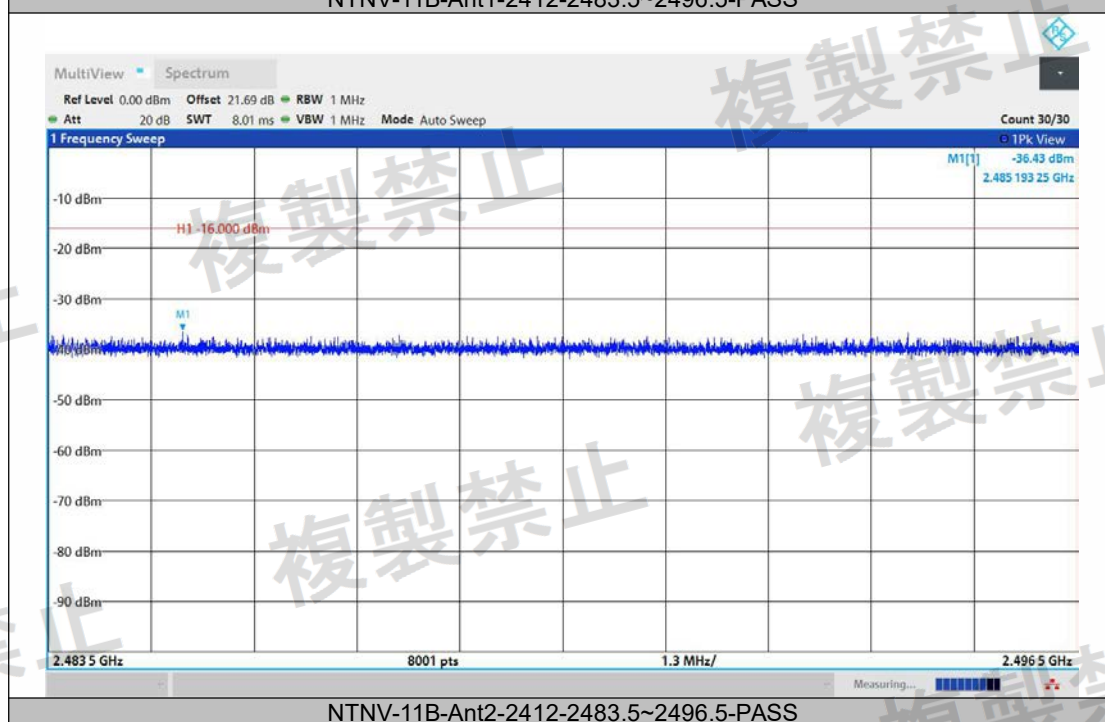
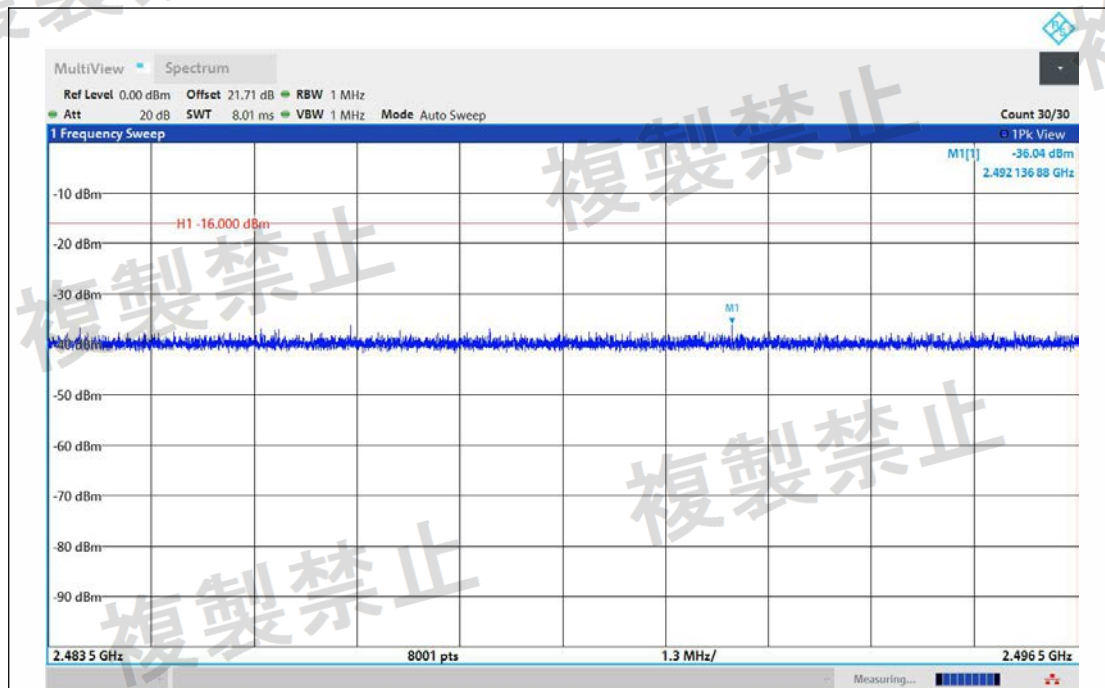


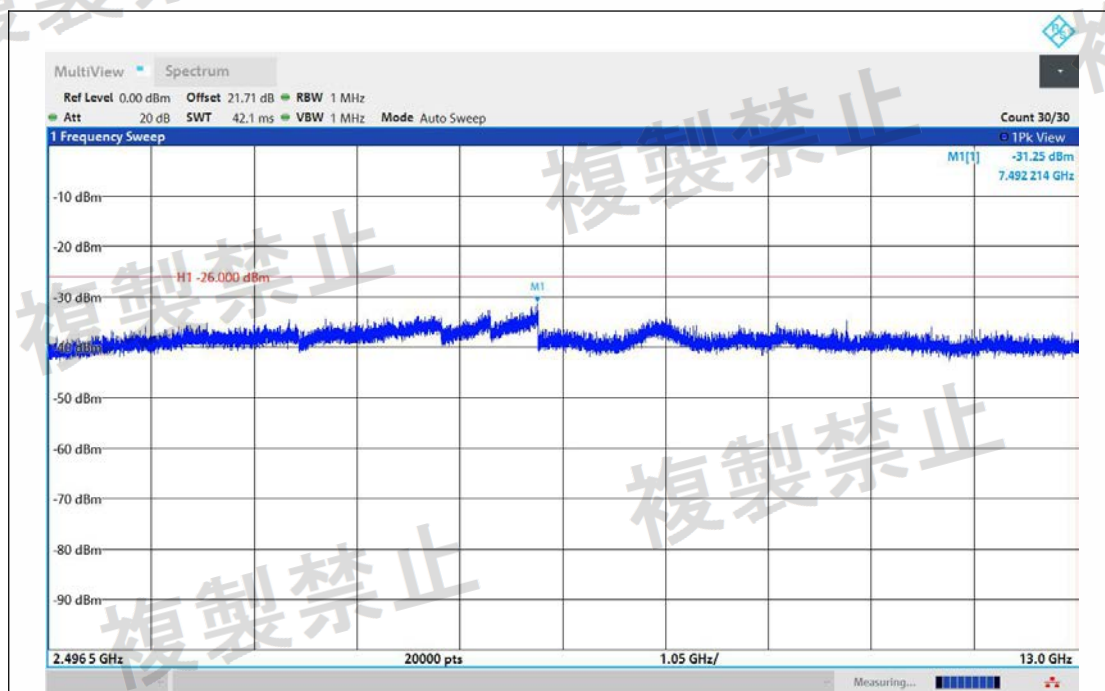


NTNV-11B-Ant1-2412-2387~2400-PASS

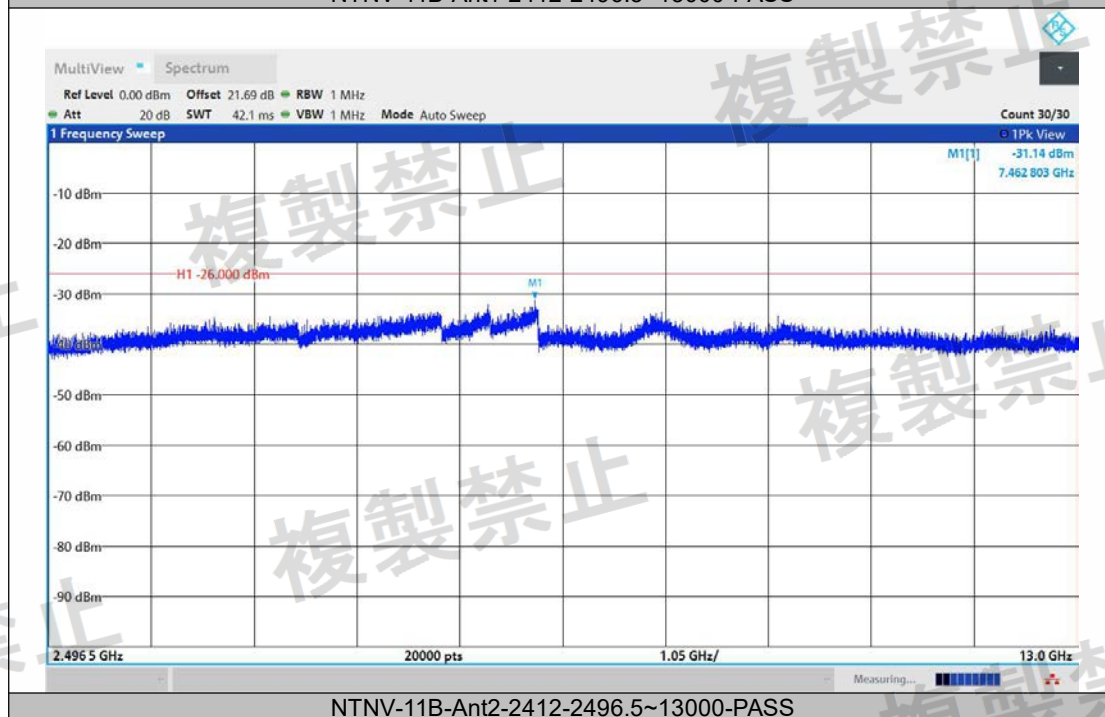


NTNV-11B-Ant2-2412-2387~2400-PASS

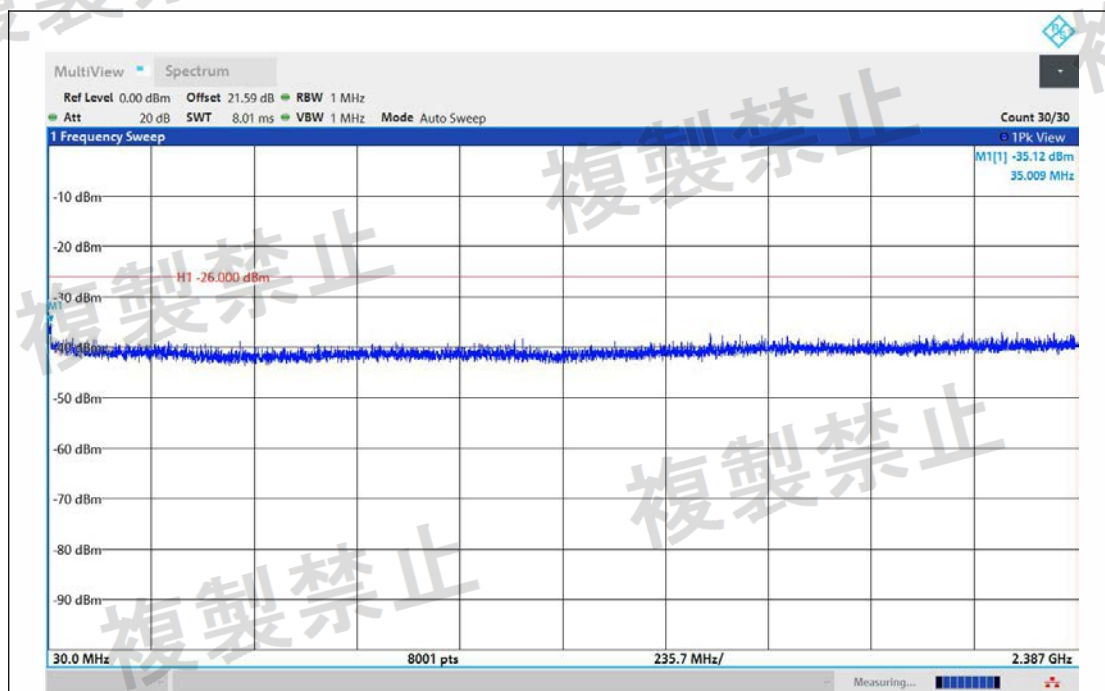




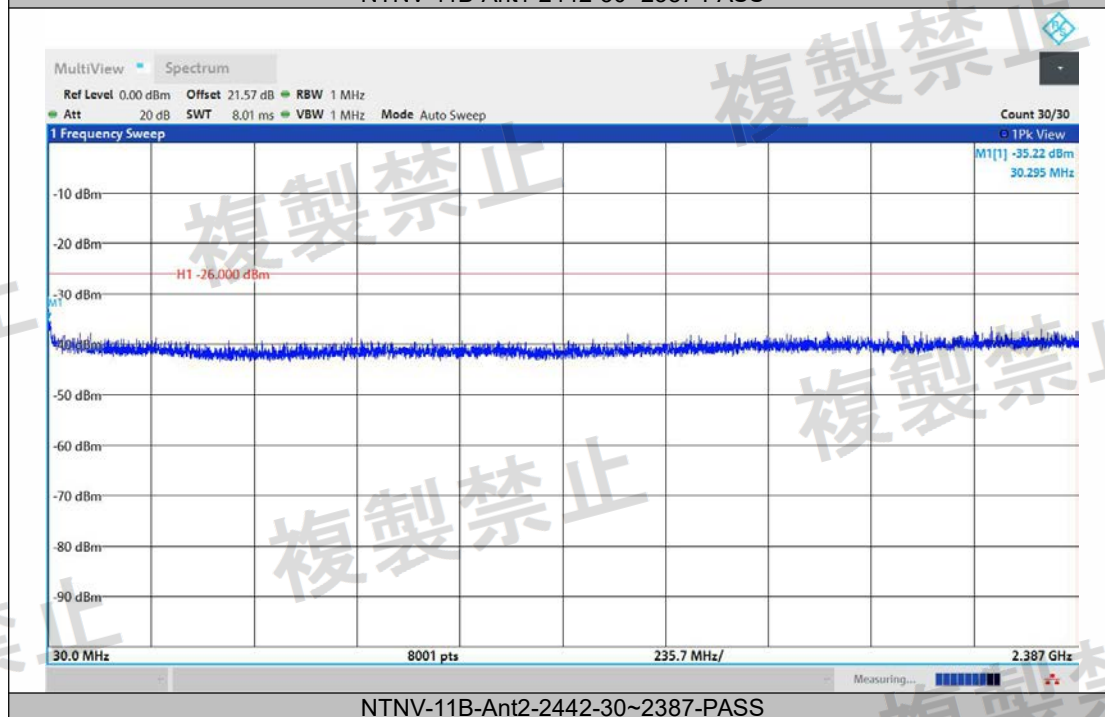
NTNV-11B-Ant1-2412-2496.5~13000-PASS



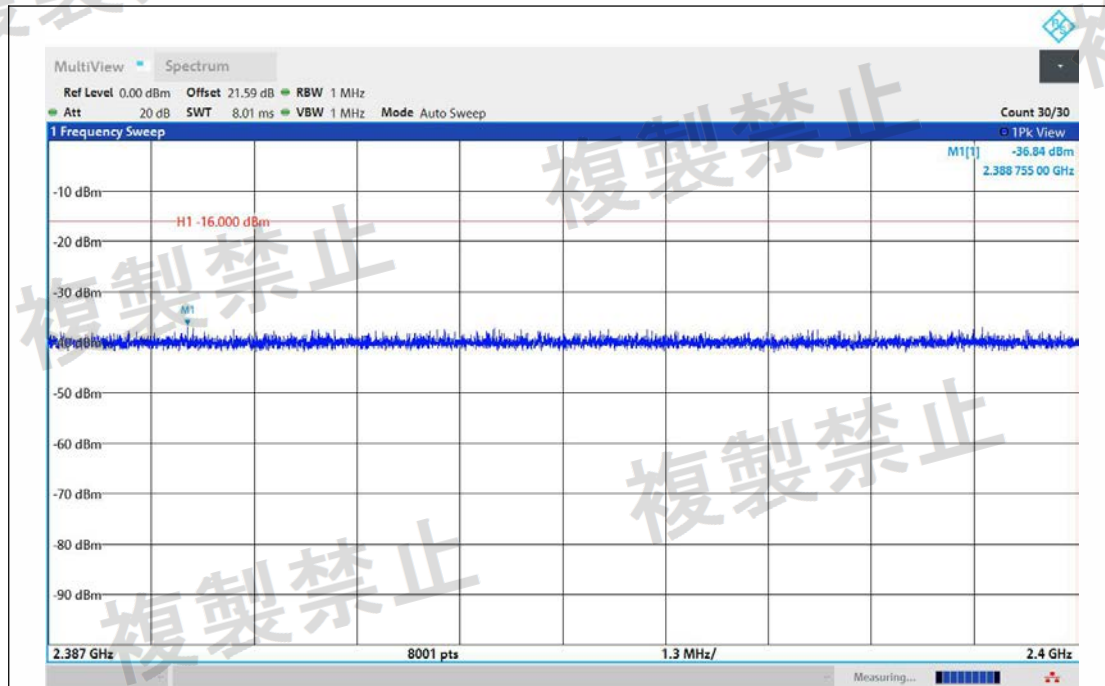
NTNV-11B-Ant2-2412-2496.5~13000-PASS



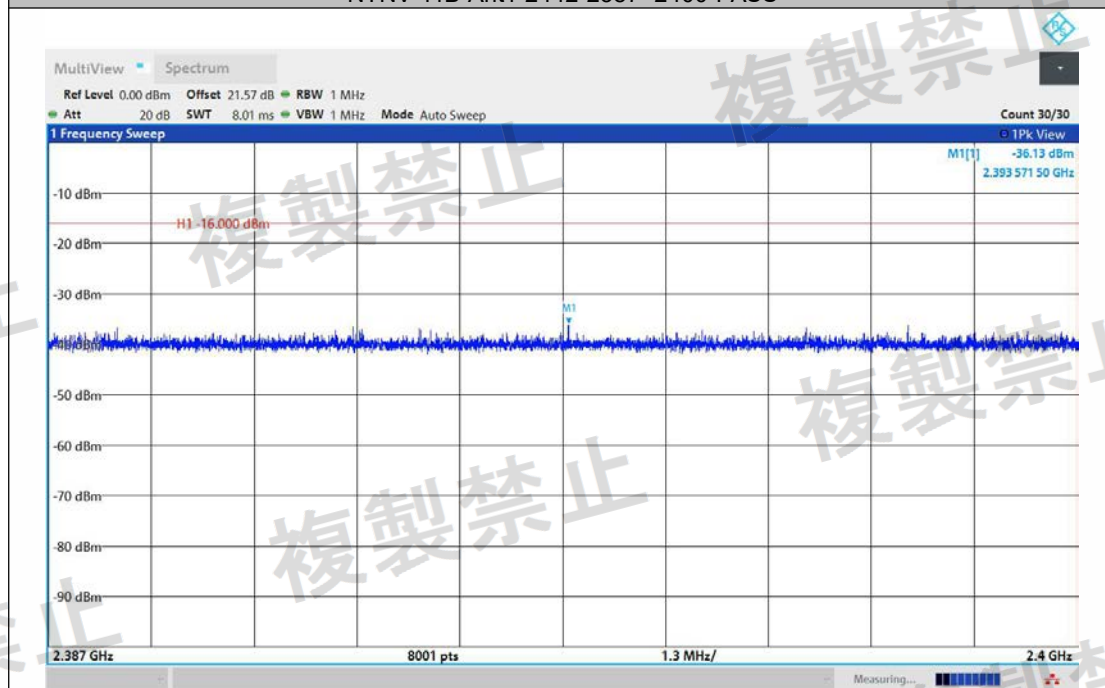
NTNV-11B-Ant1-2442-30~2387-PASS



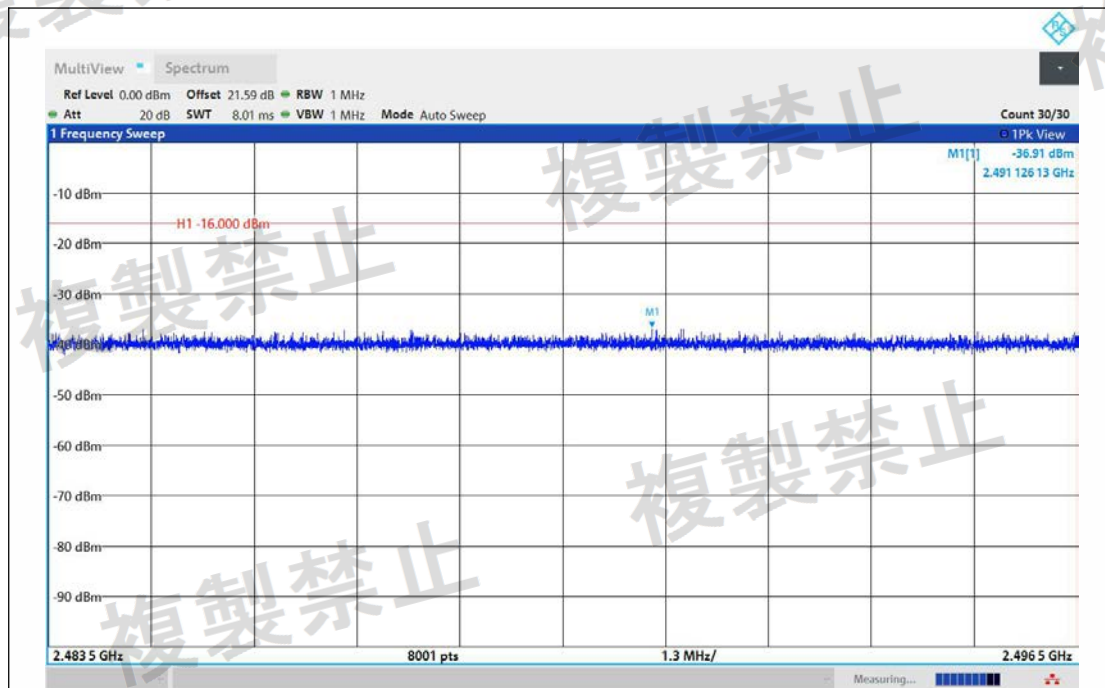
NTNV-11B-Ant2-2442-30~2387-PASS



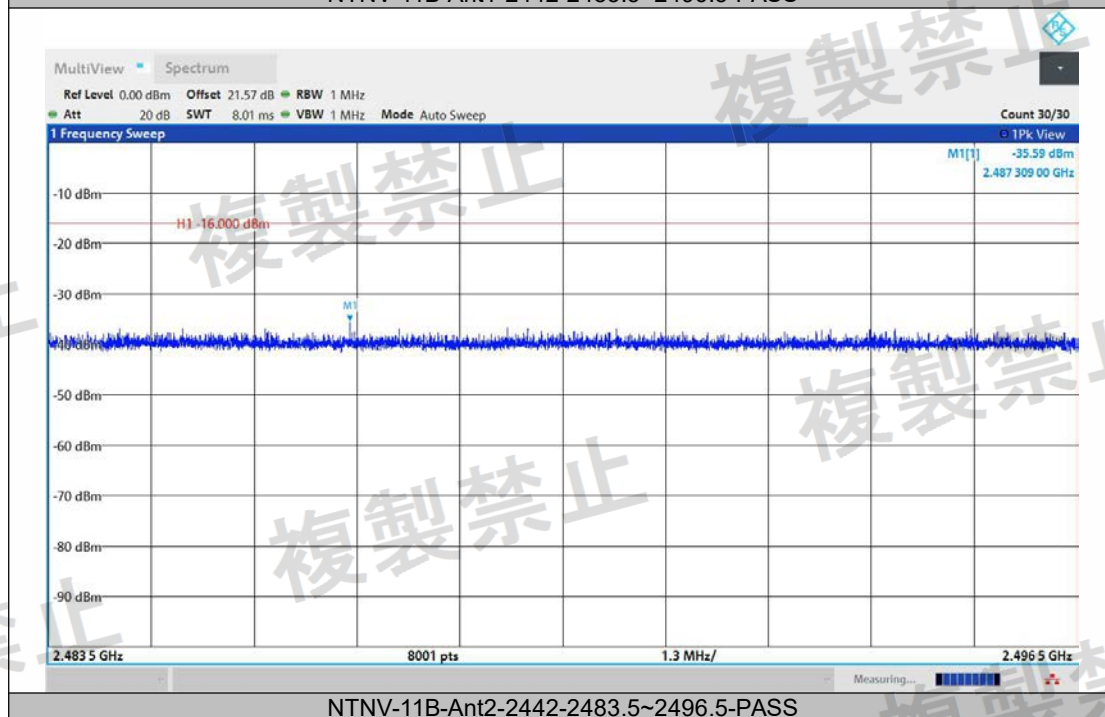
NTNV-11B-Ant1-2442-2387~2400-PASS



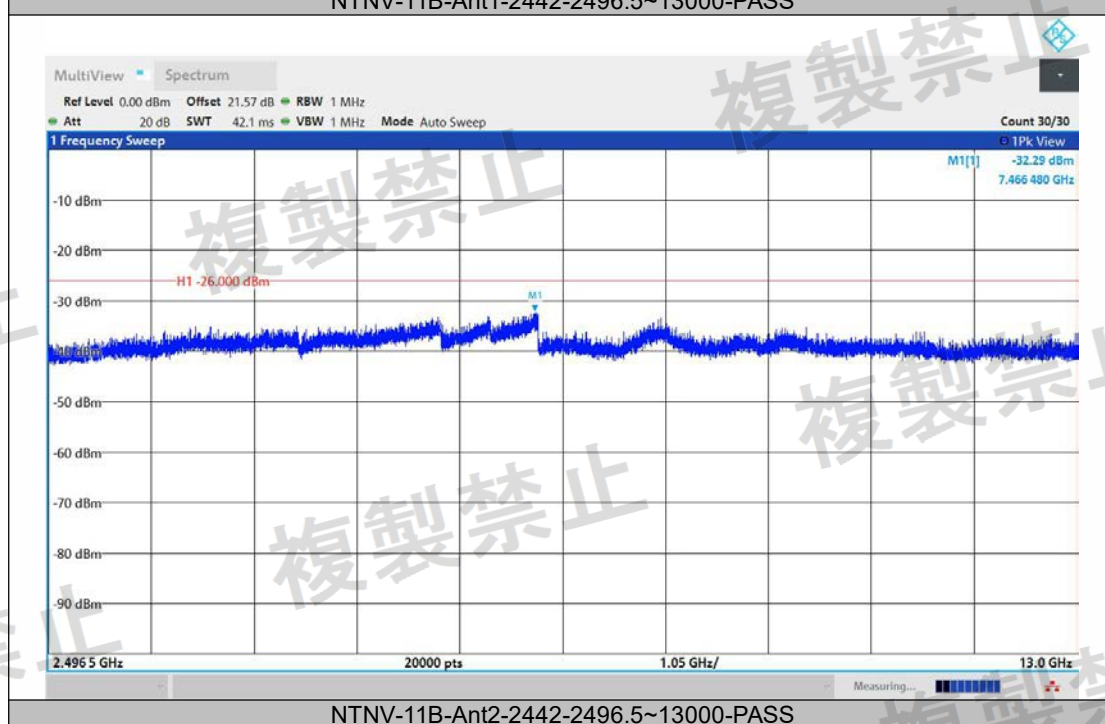
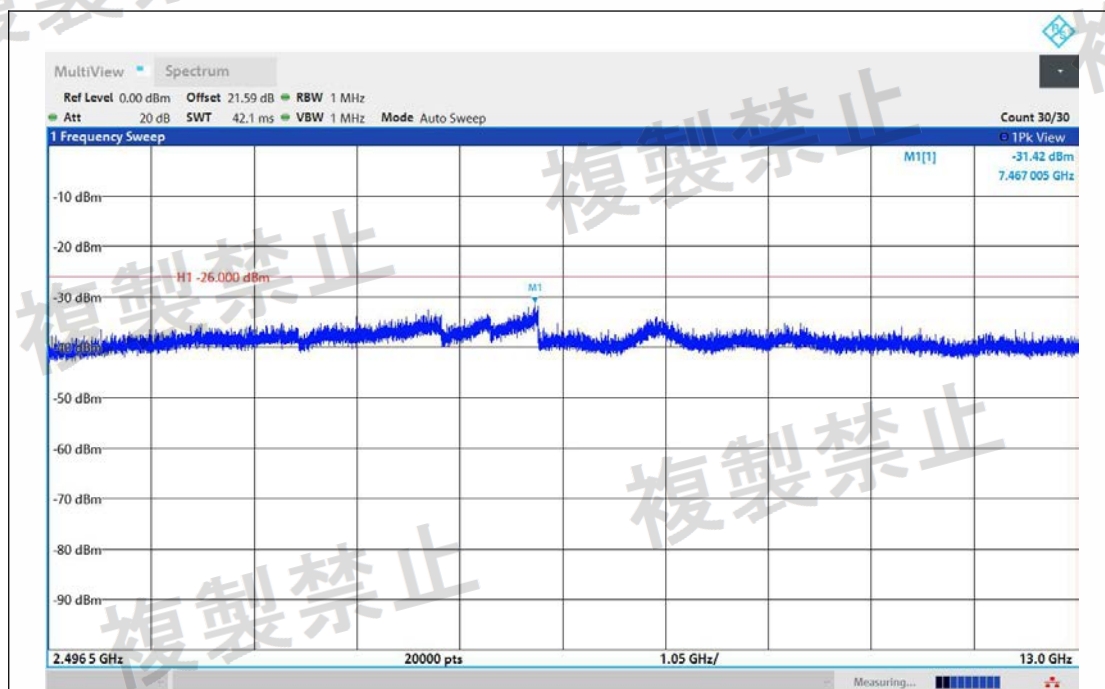
NTNV-11B-Ant2-2442-2387~2400-PASS

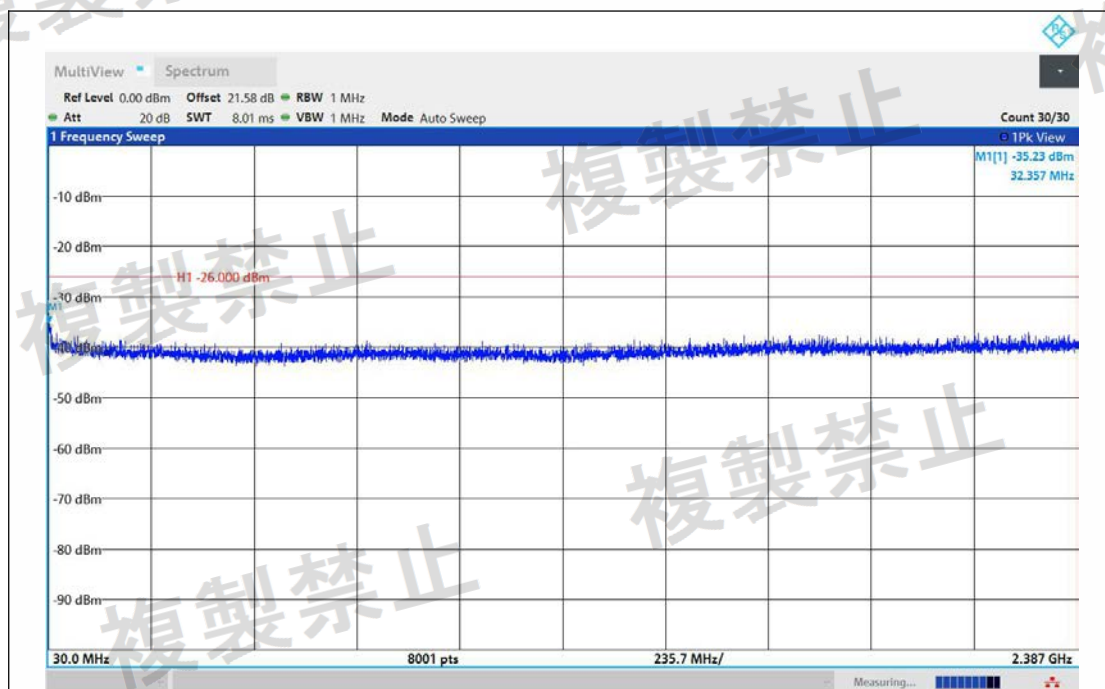


NTNV-11B-Ant1-2442-2483.5~2496.5-PASS

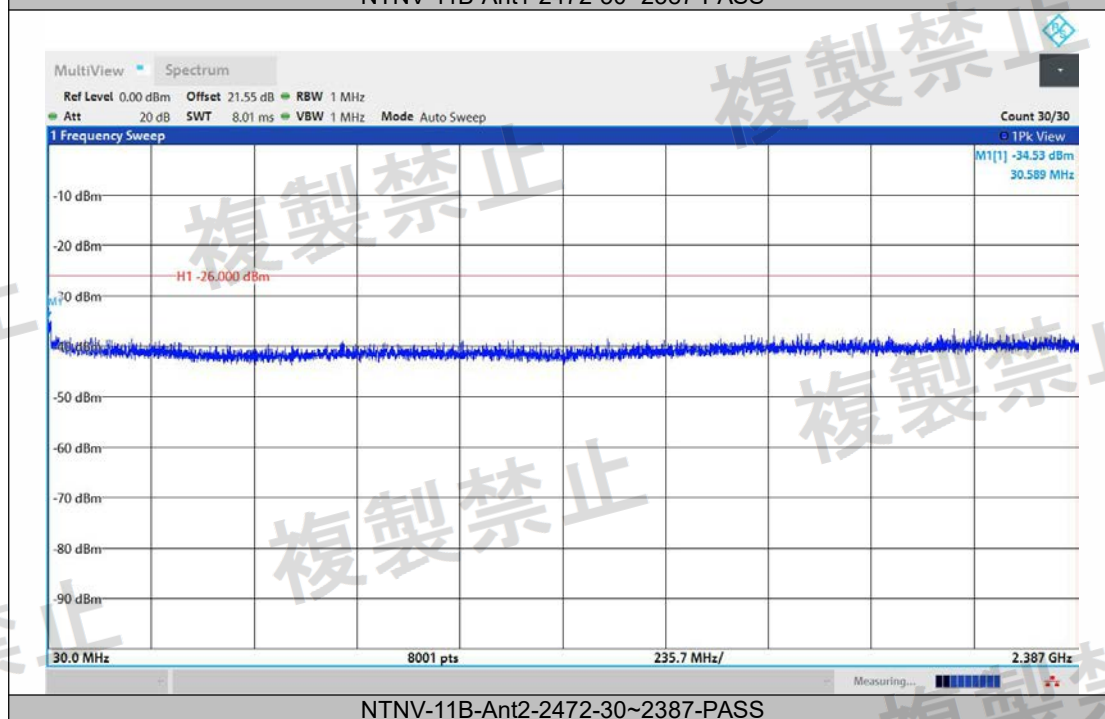


NTNV-11B-Ant2-2442-2483.5~2496.5-PASS

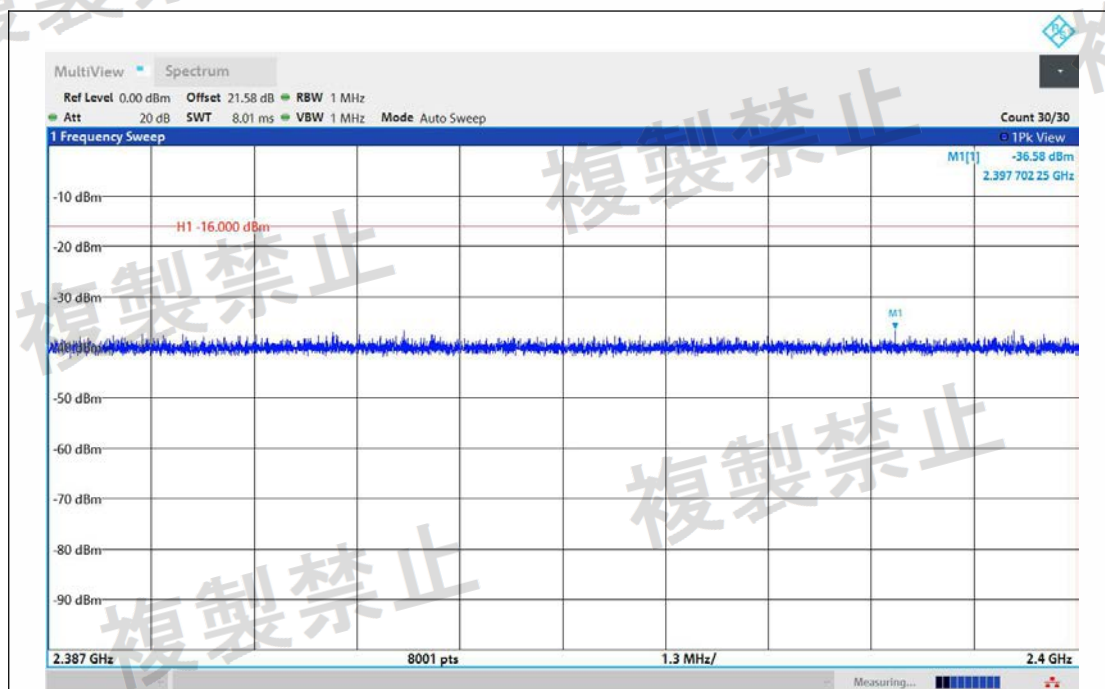




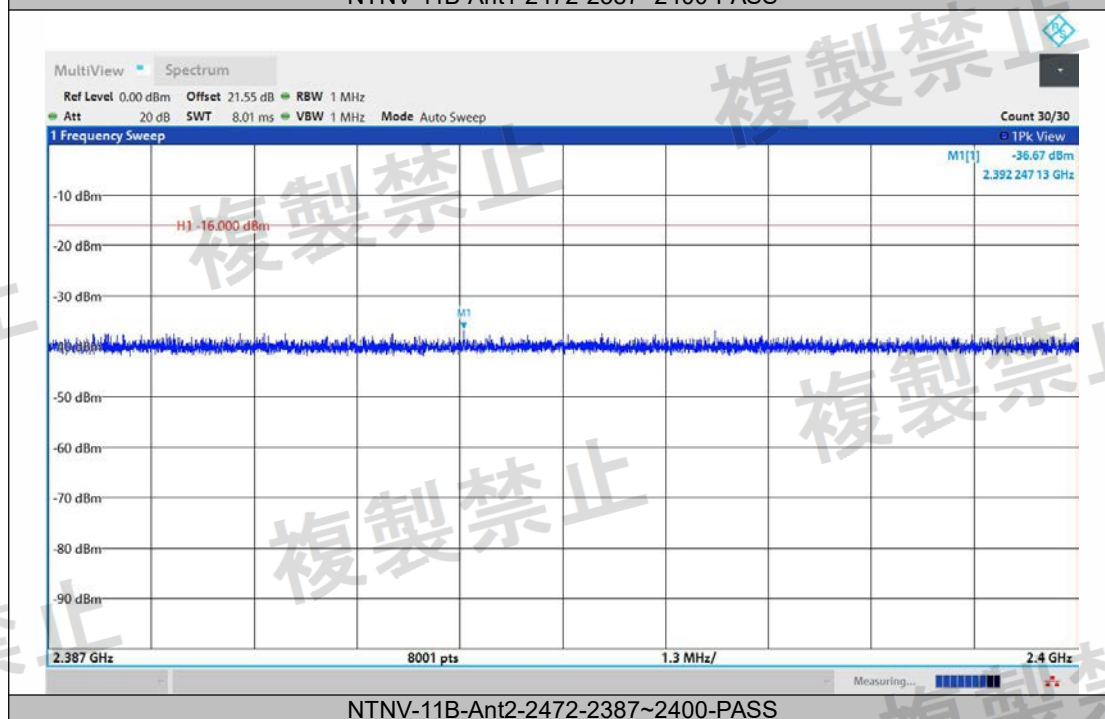
NTNV-11B-Ant1-2472-30~2387-PASS



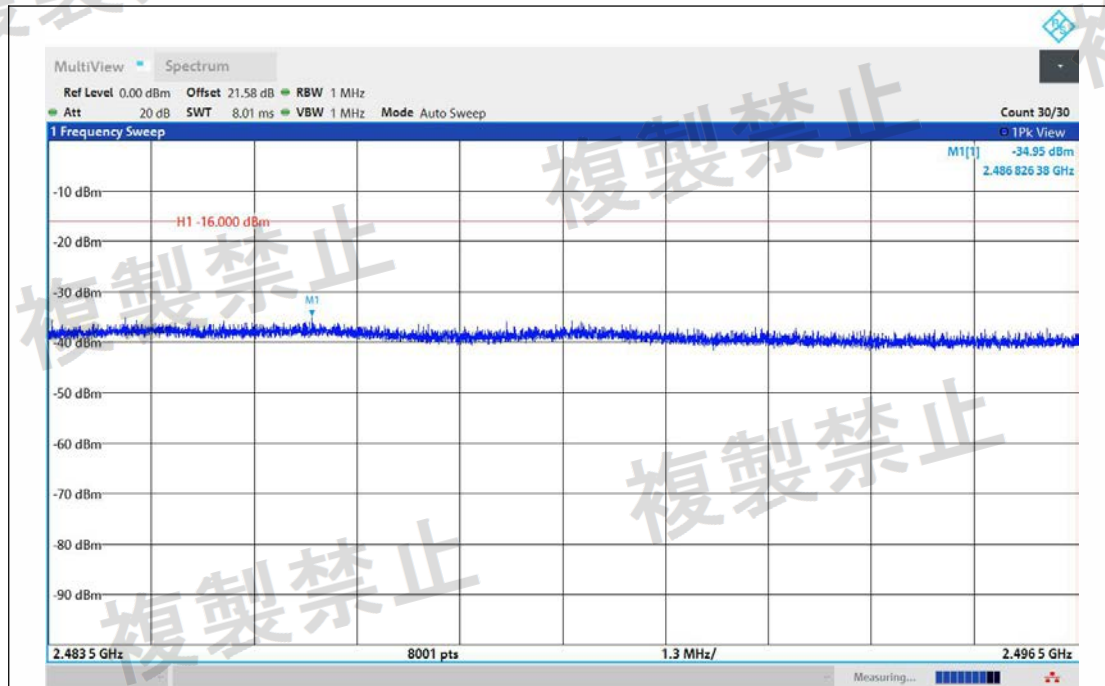
NTNV-11B-Ant2-2472-30~2387-PASS



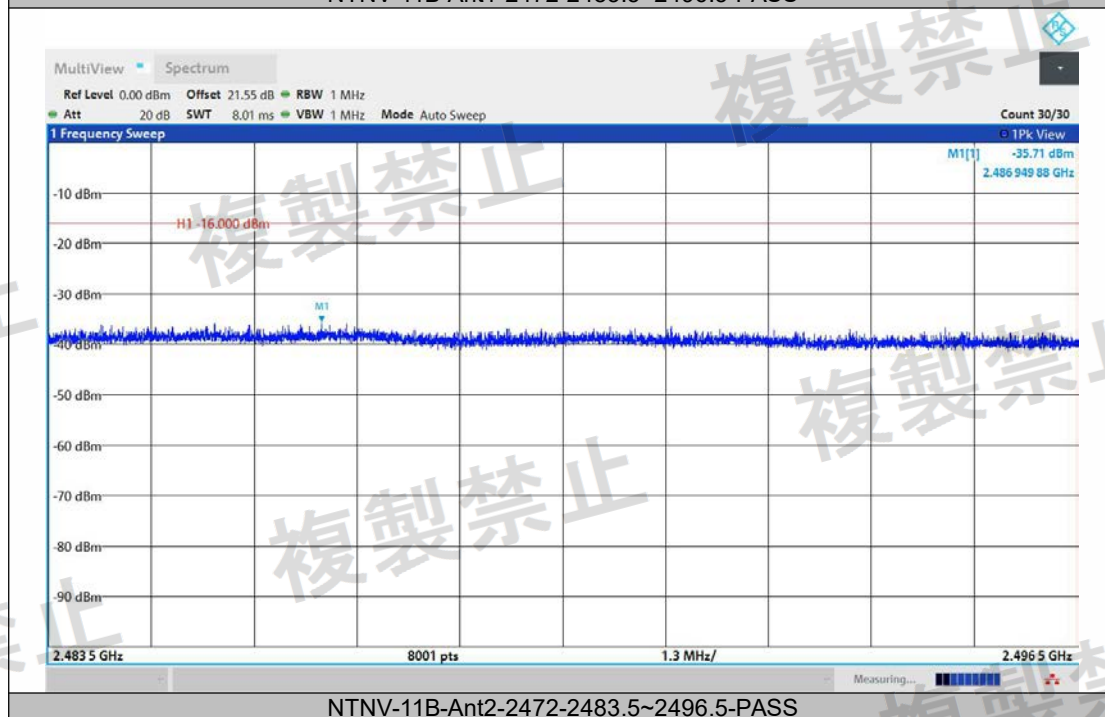
NTNV-11B-Ant1-2472-2387~2400-PASS



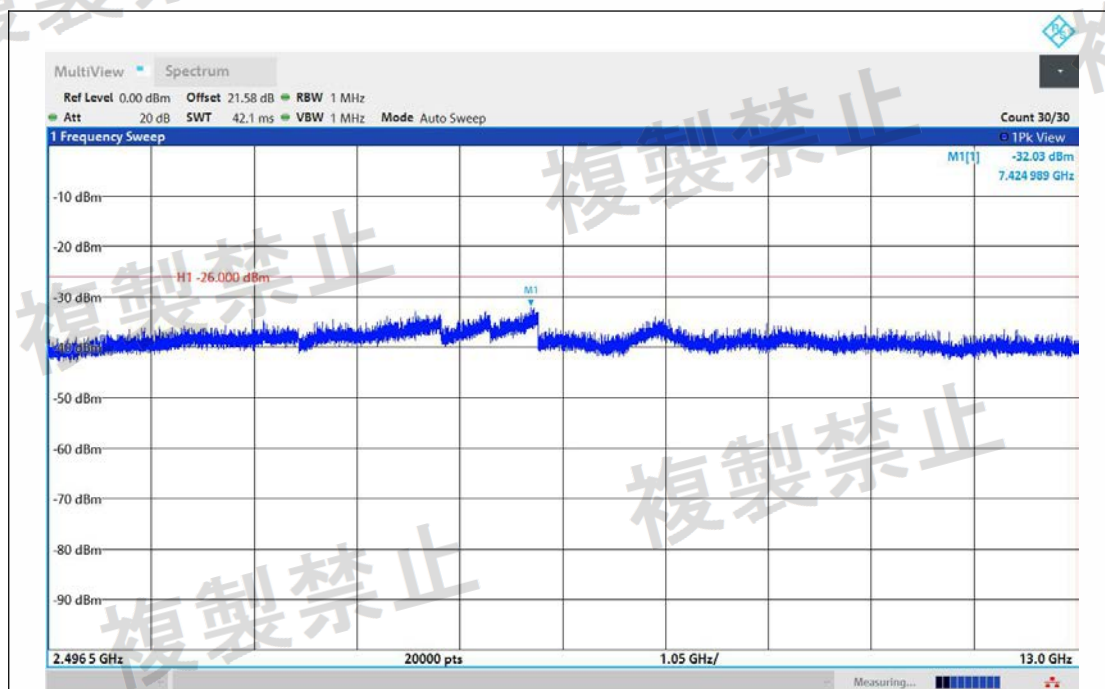
NTNV-11B-Ant2-2472-2387~2400-PASS



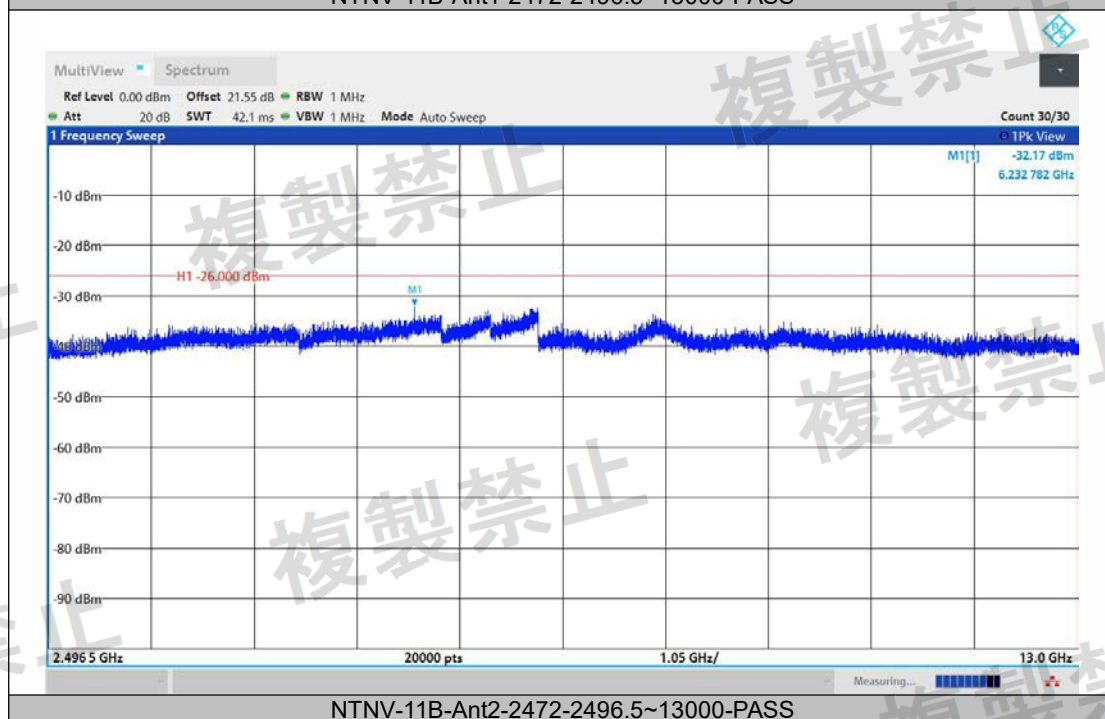
NTNV-11B-Ant1-2472-2483.5~2496.5-PASS



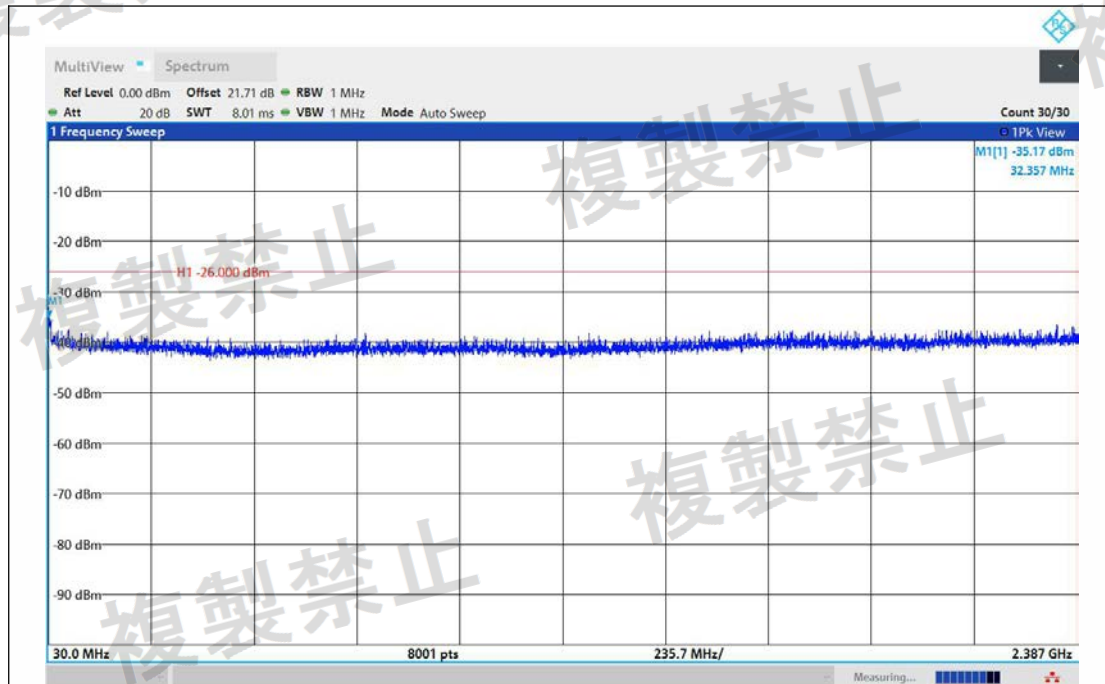
NTNV-11B-Ant2-2472-2483.5~2496.5-PASS



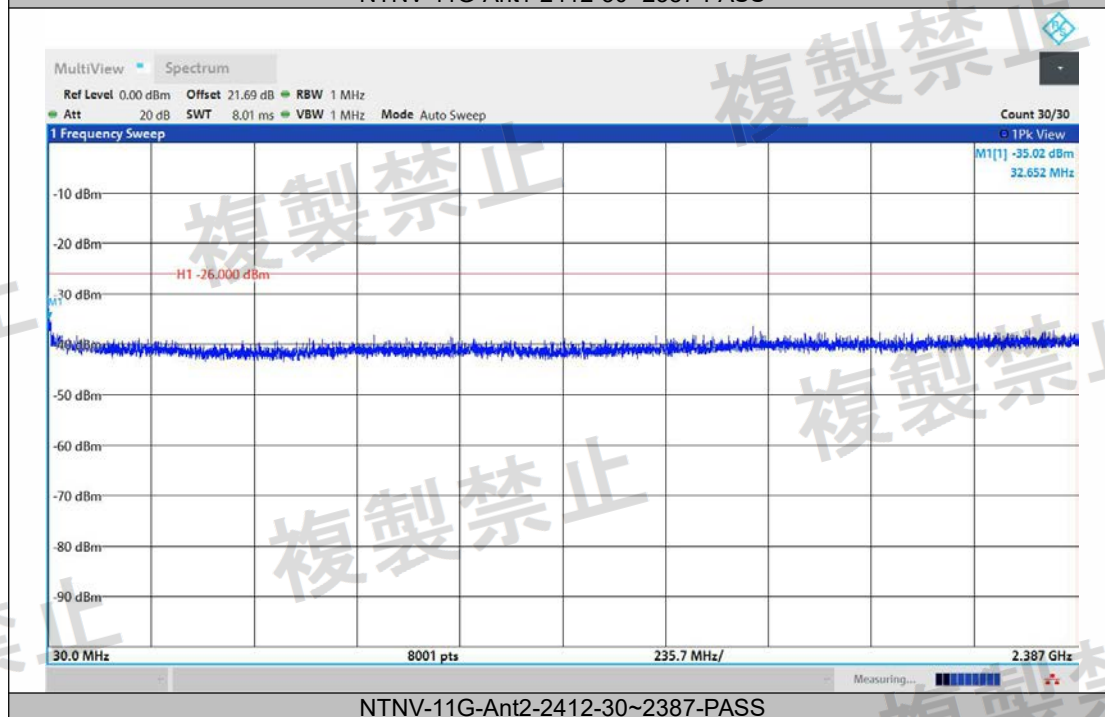
NTNV-11B-Ant1-2472-2496.5~13000-PASS



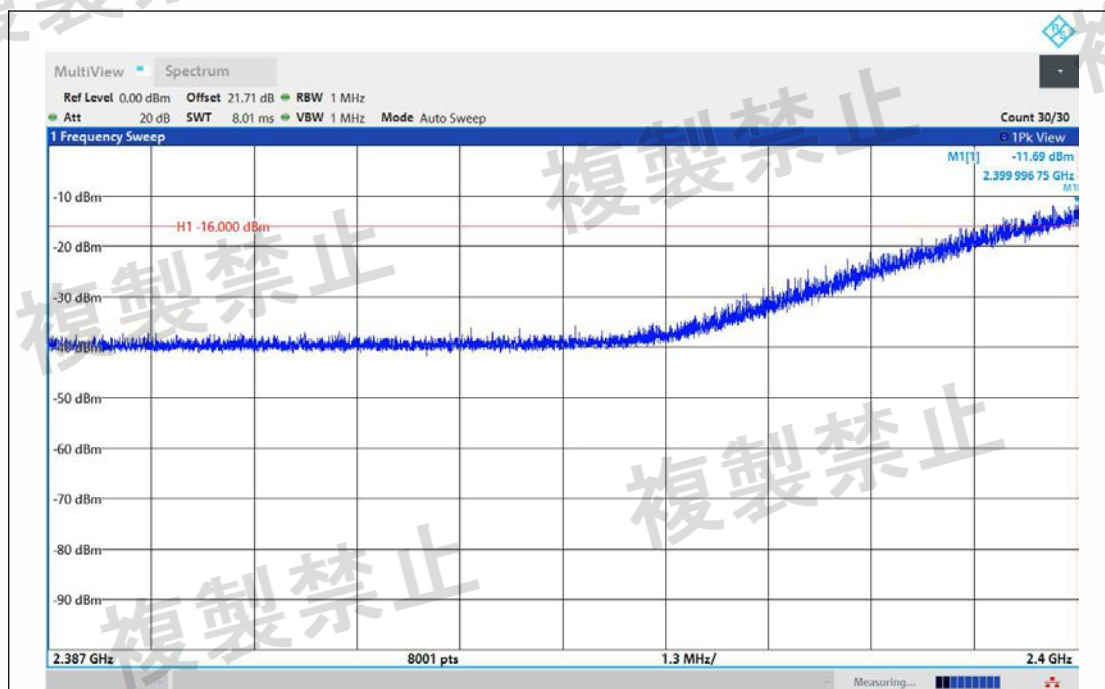
NTNV-11B-Ant2-2472-2496.5~13000-PASS



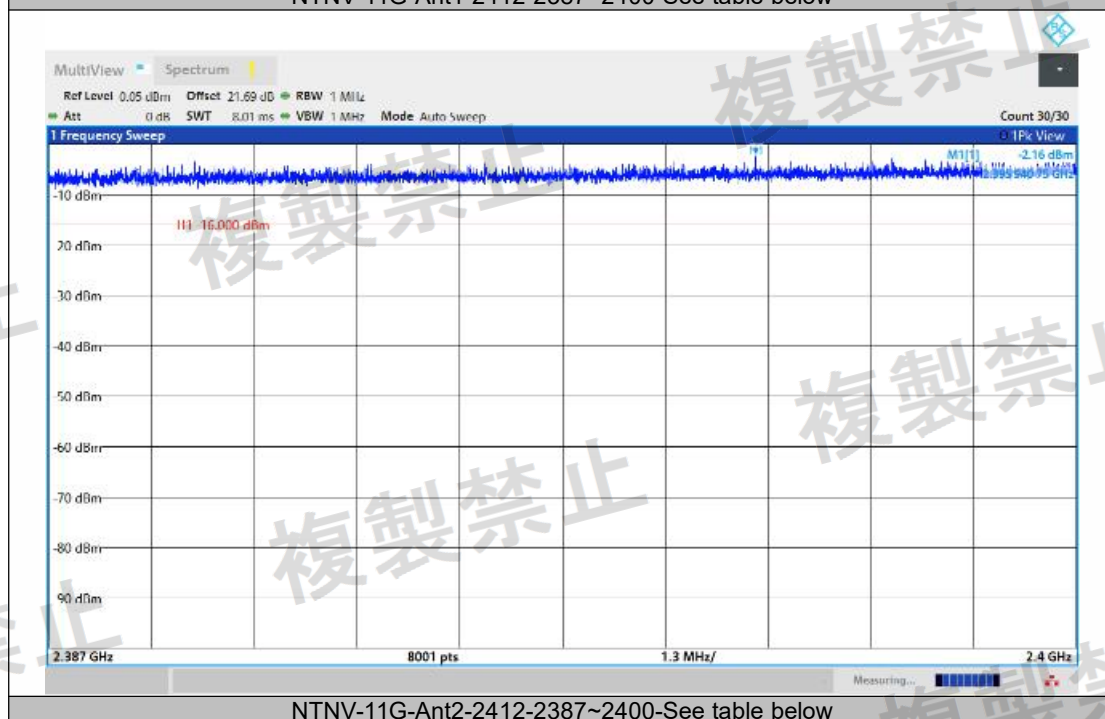
NTNV-11G-Ant1-2412-30~2387-PASS



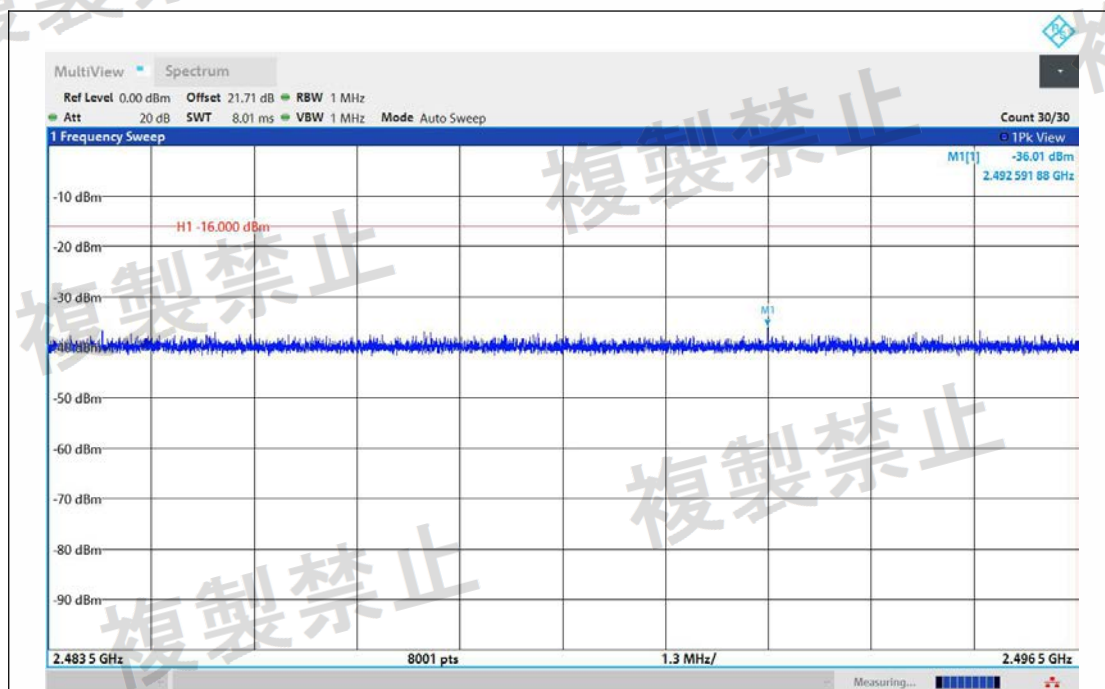
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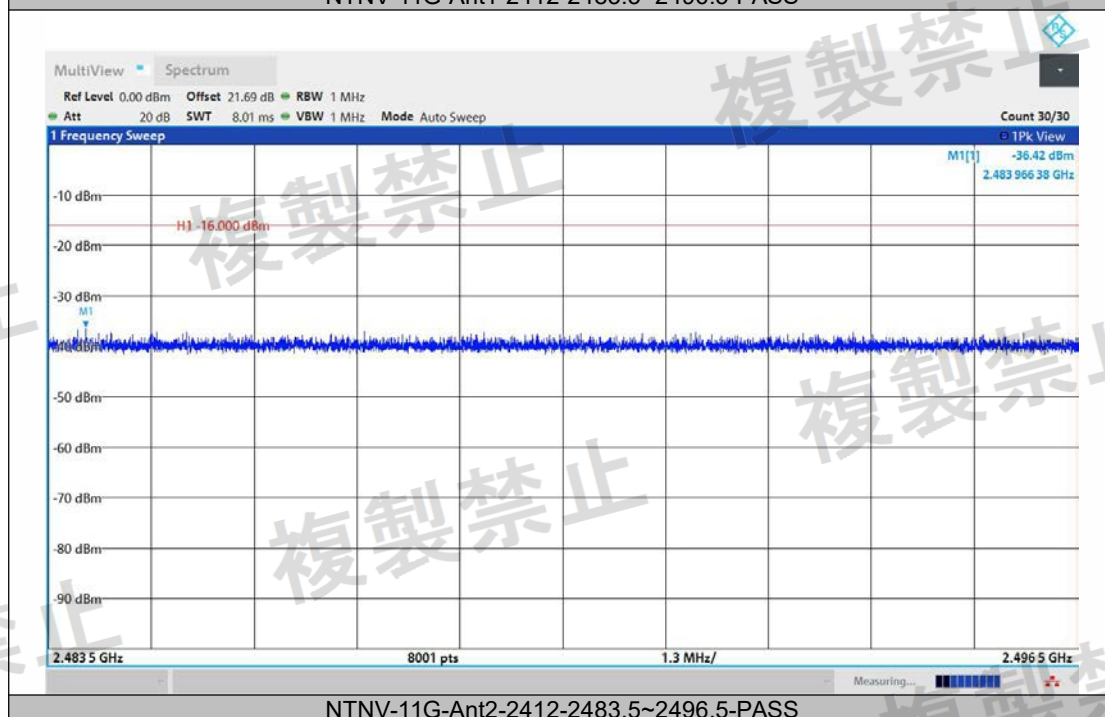
NTNV-11G-Ant1-2412-2387~2400-See table below



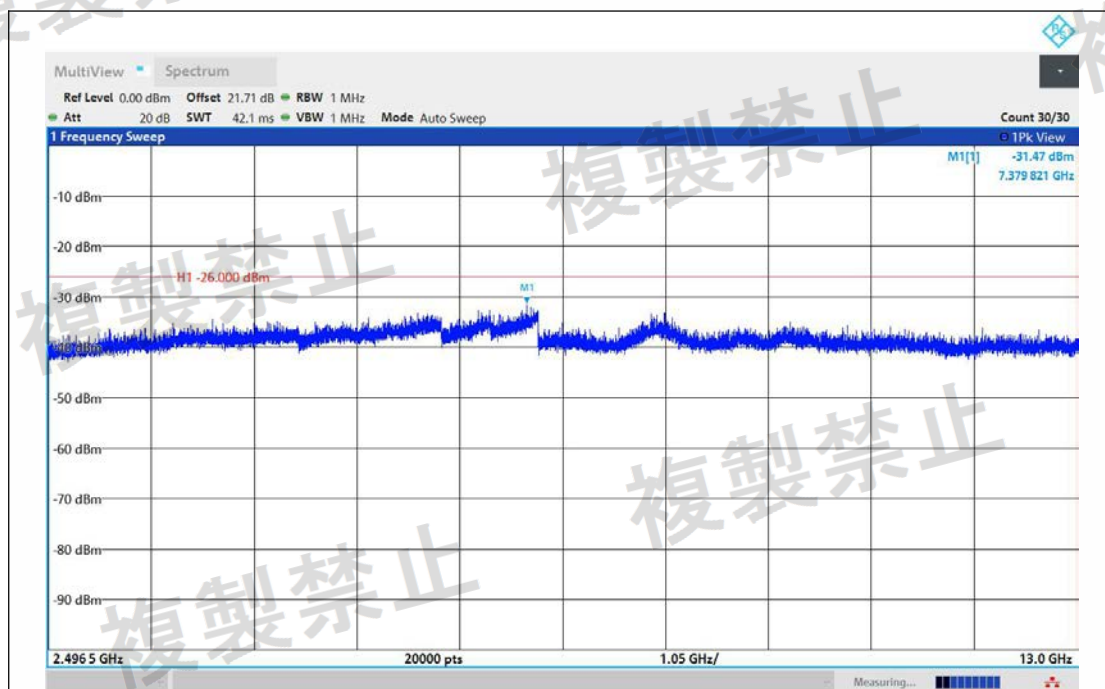
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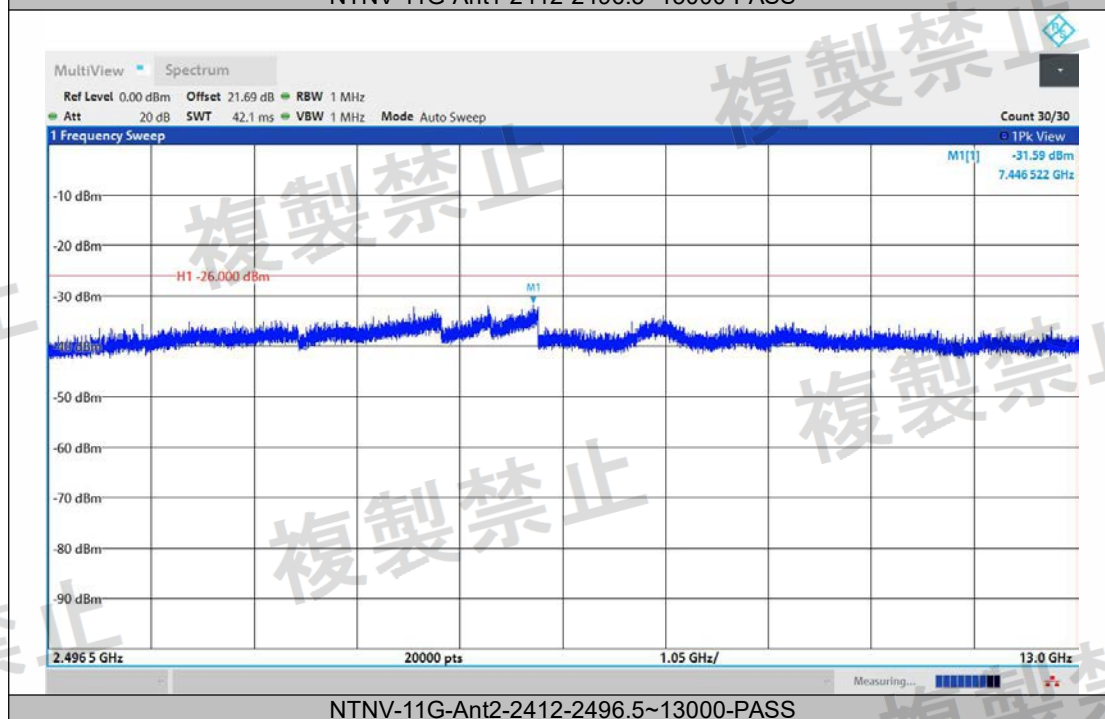
NTNV-11G-Ant1-2412-2483.5~2496.5-PASS



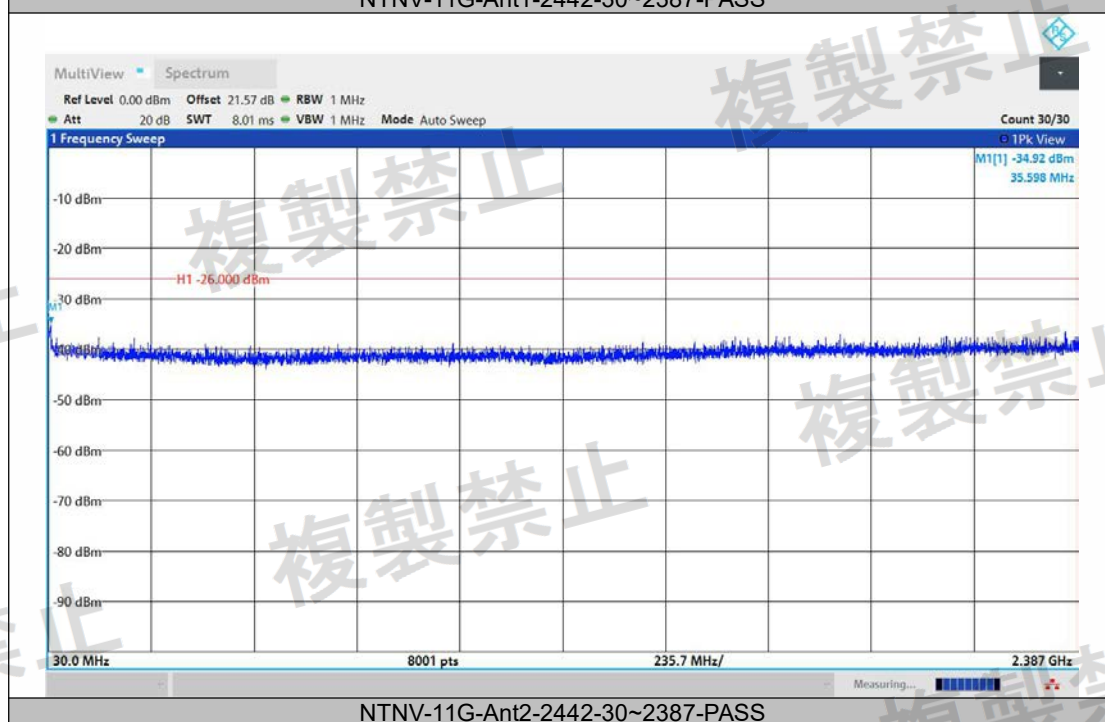
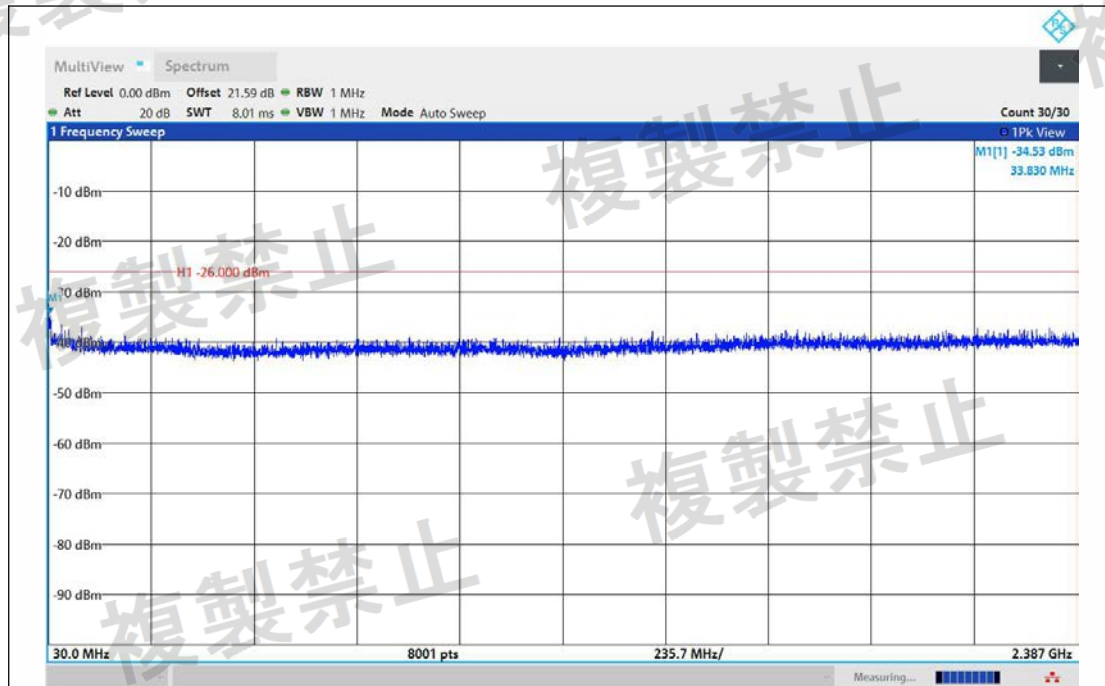
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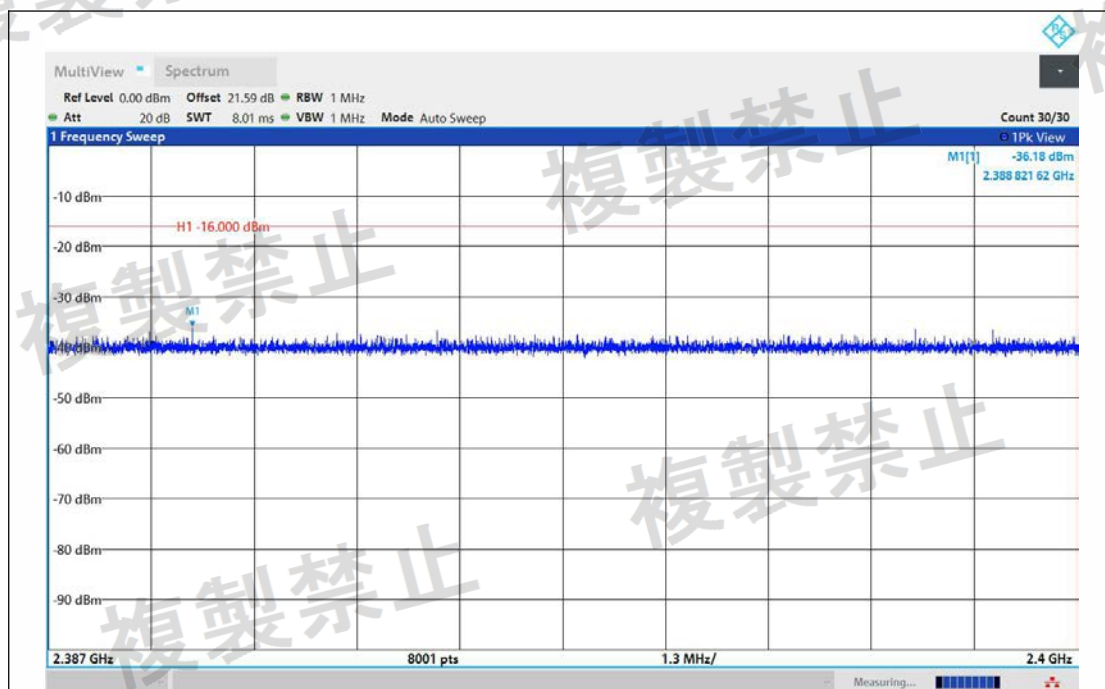


NTNV-11G-Ant1-2412-2496.5~13000-PASS

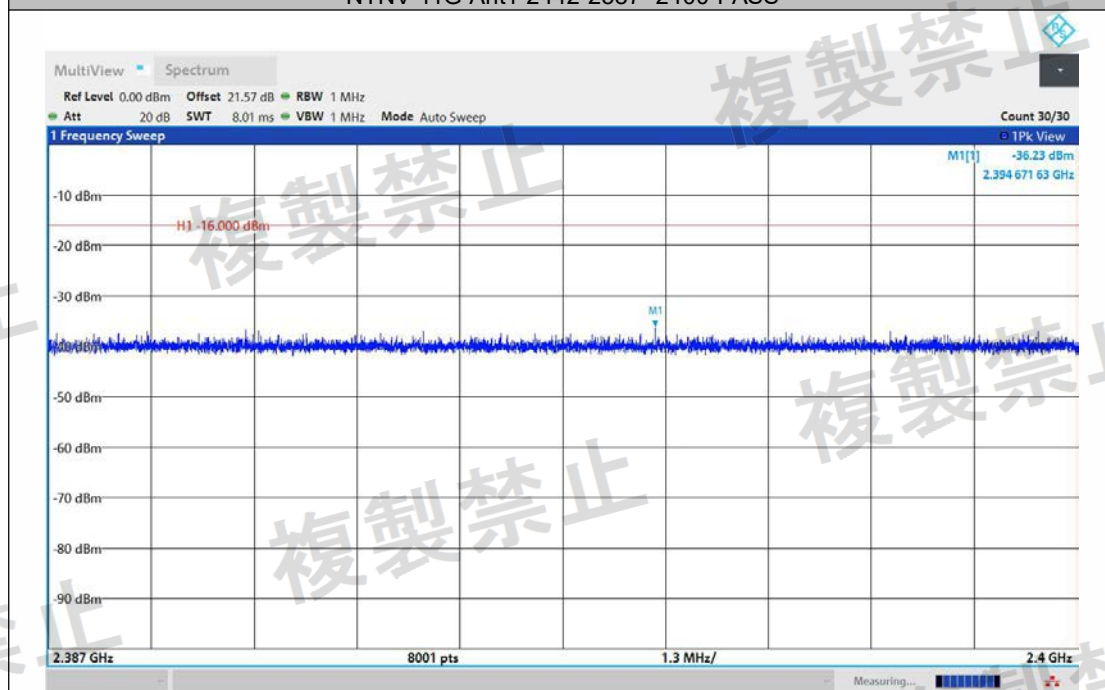


NTNV-11G-Ant2-2412-2496.5~13000-PASS

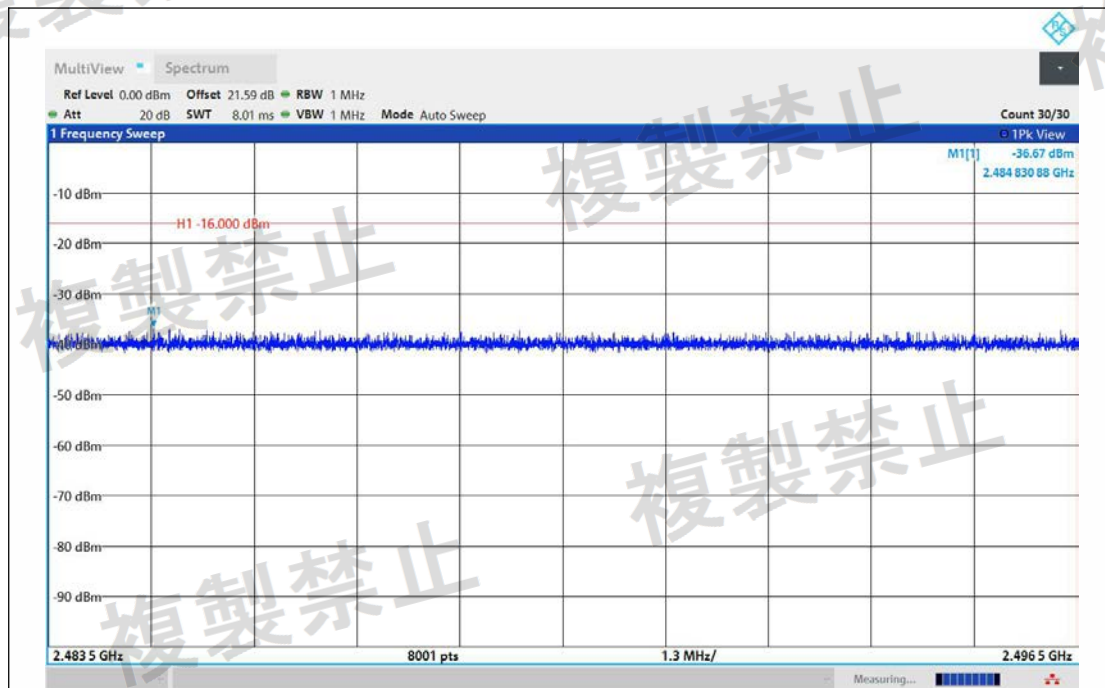




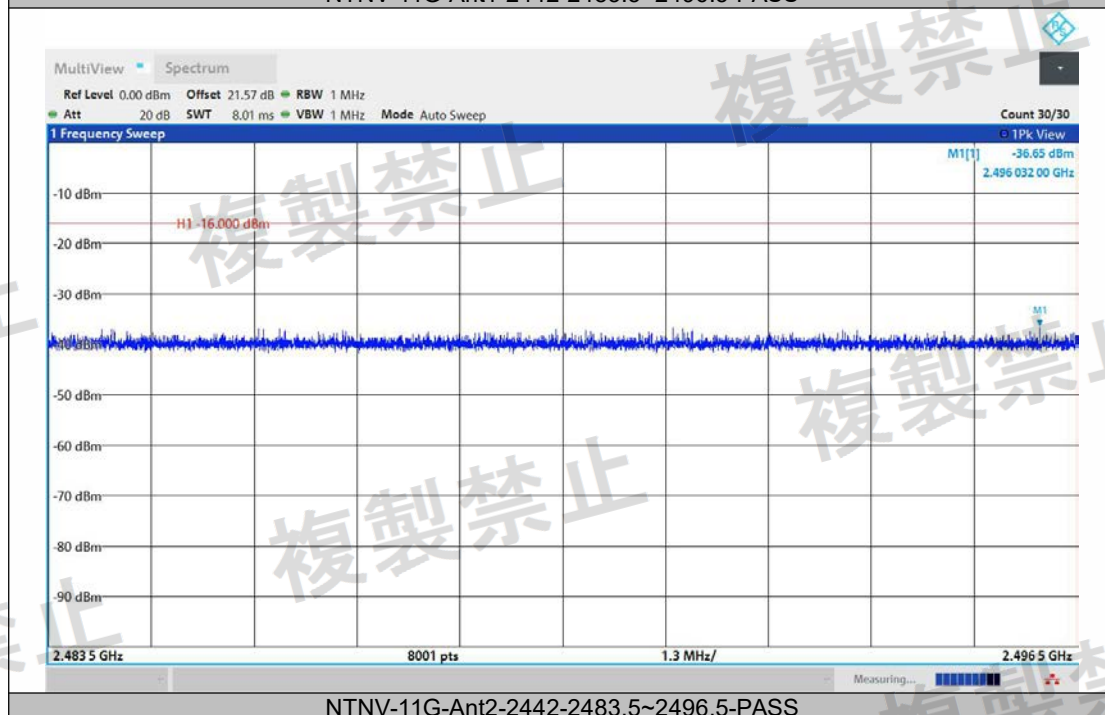
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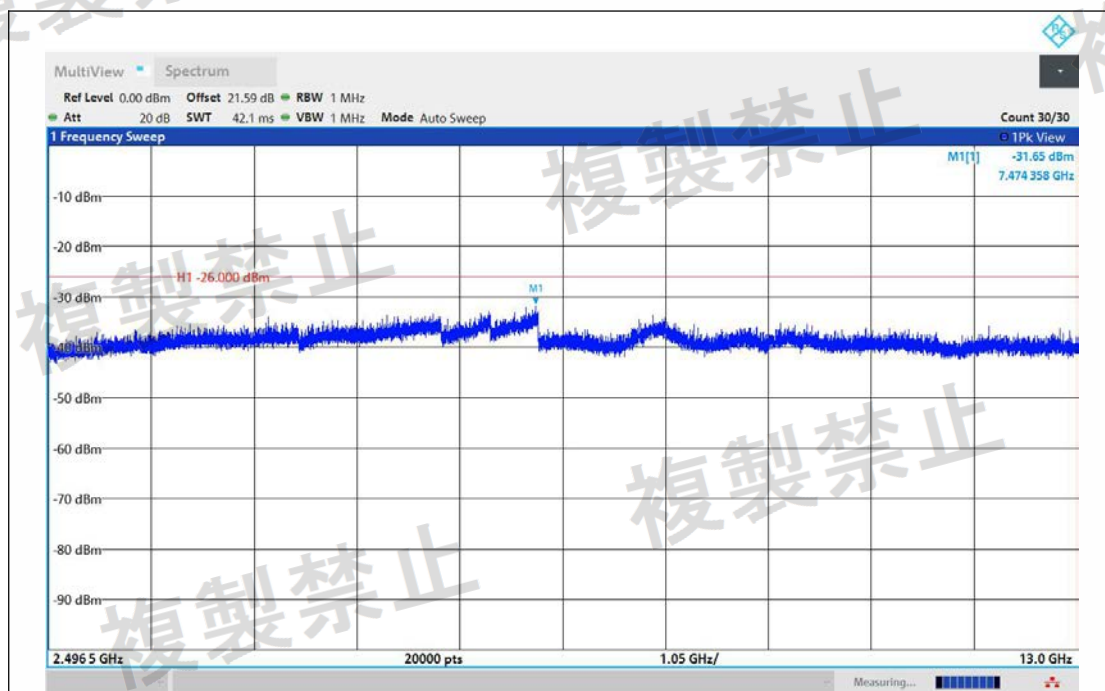
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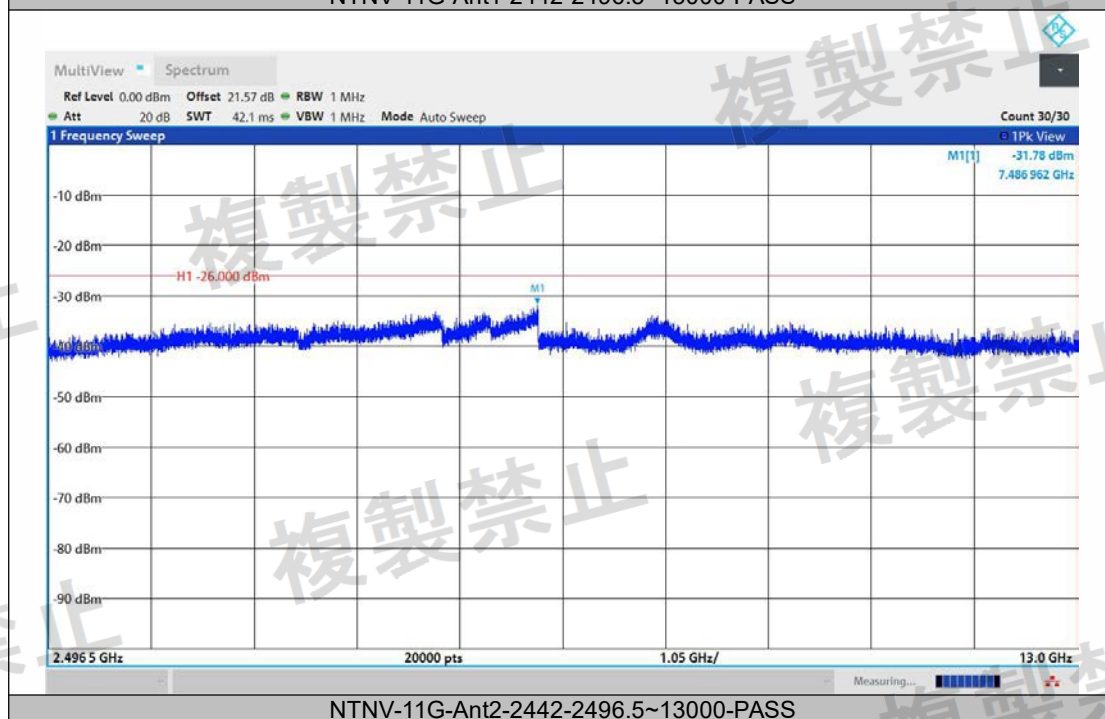
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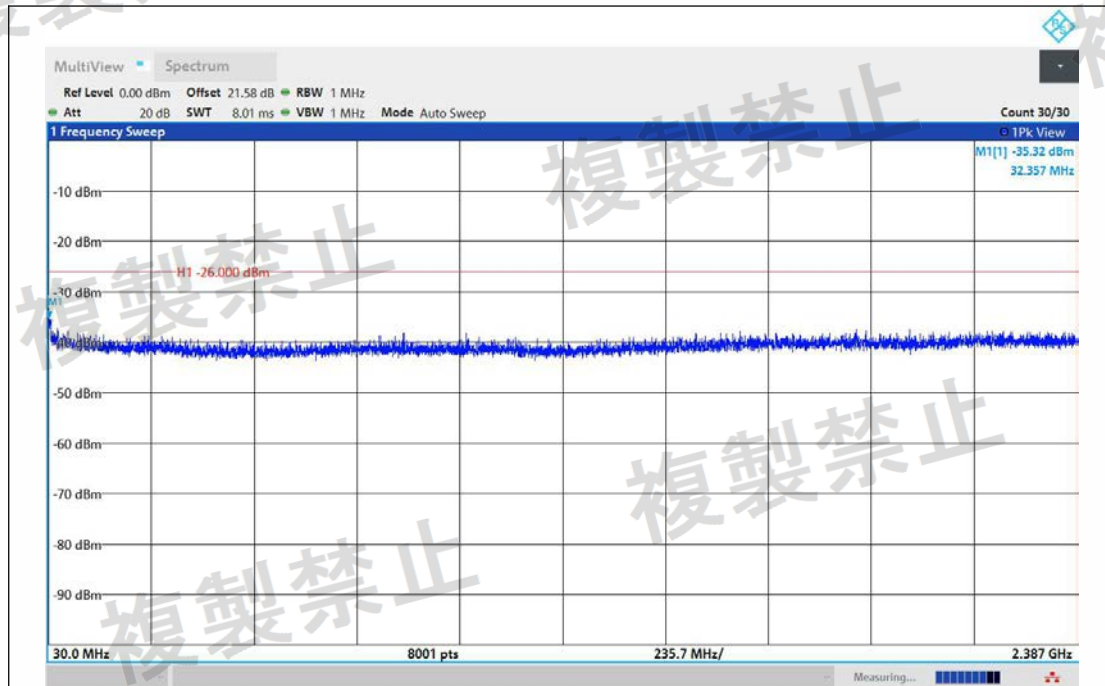
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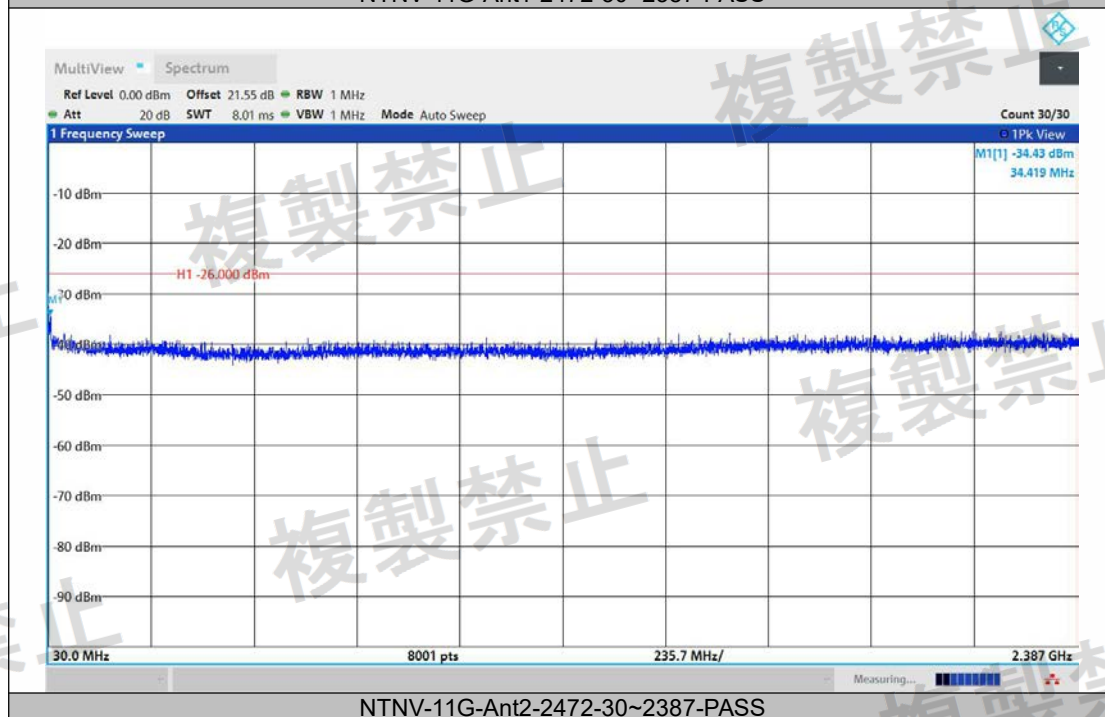
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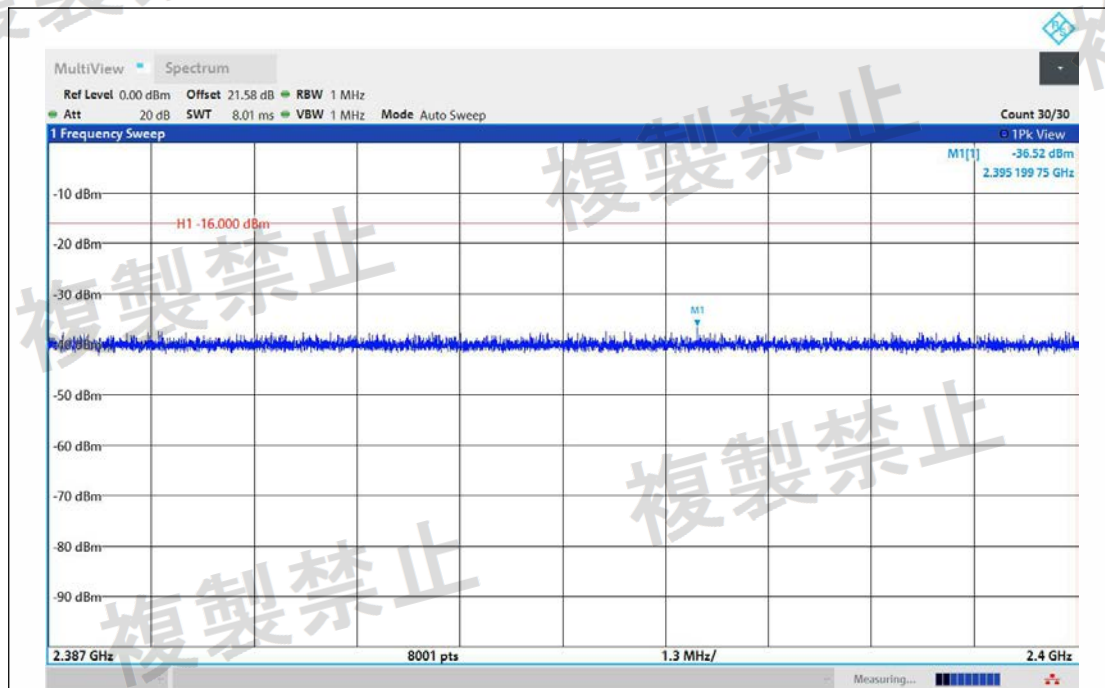
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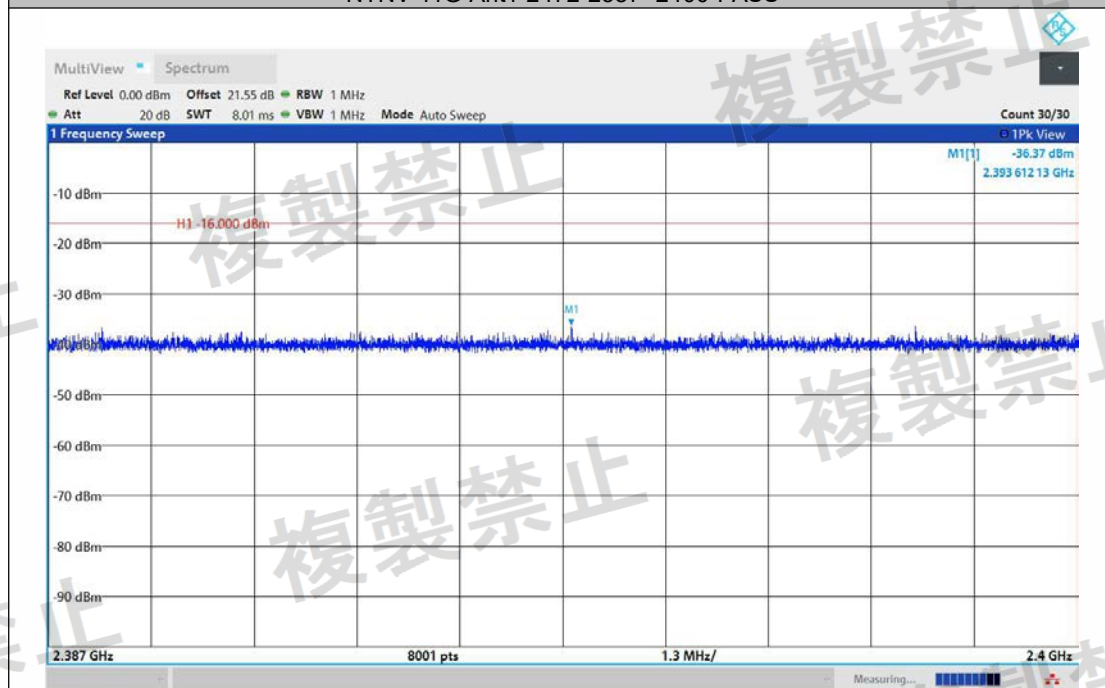
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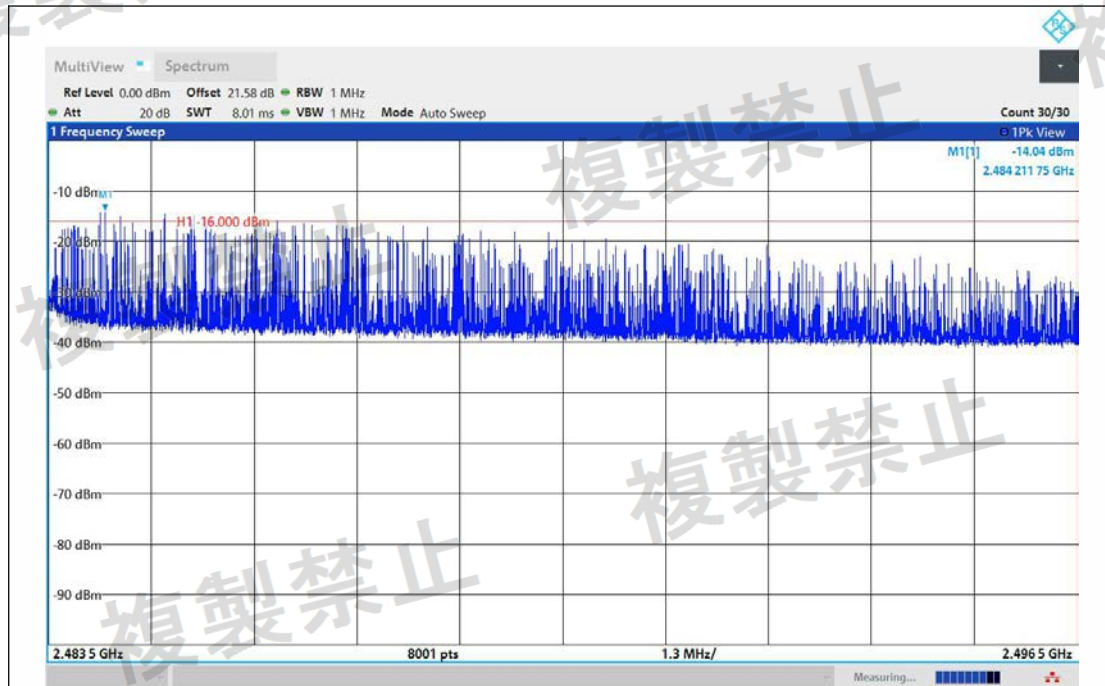
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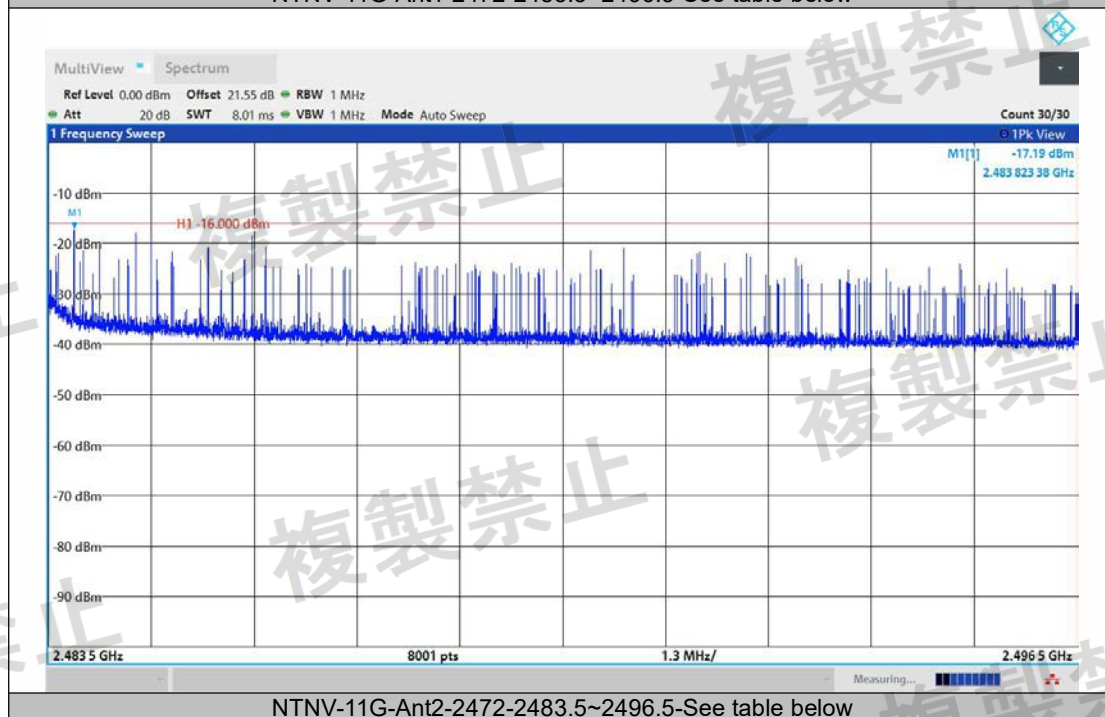
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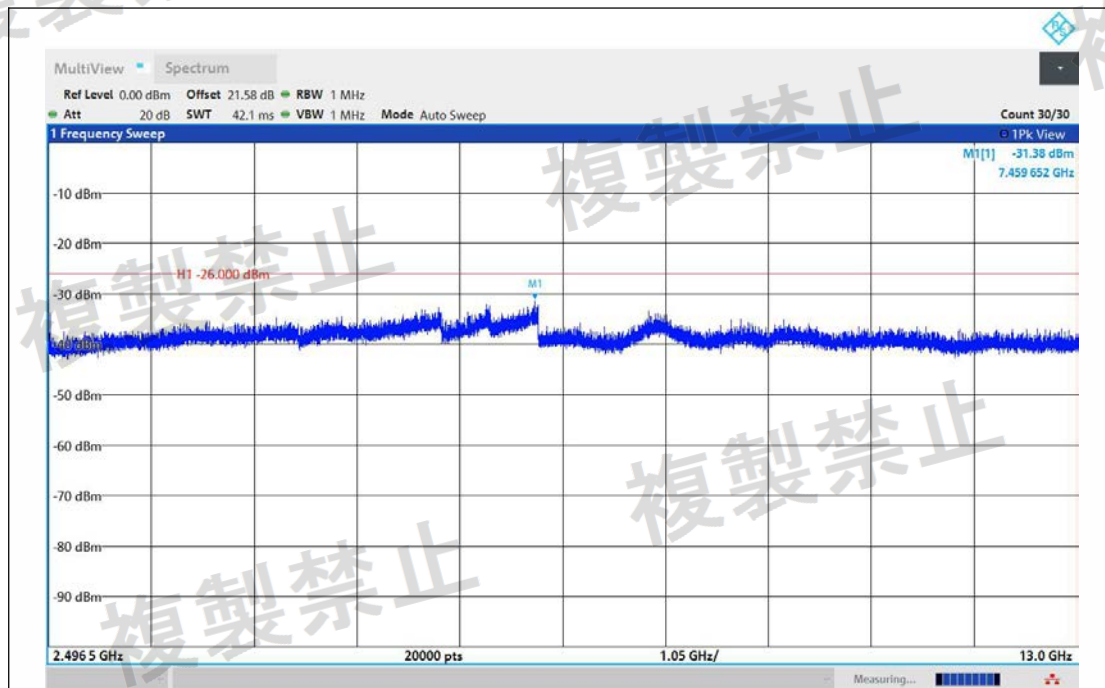
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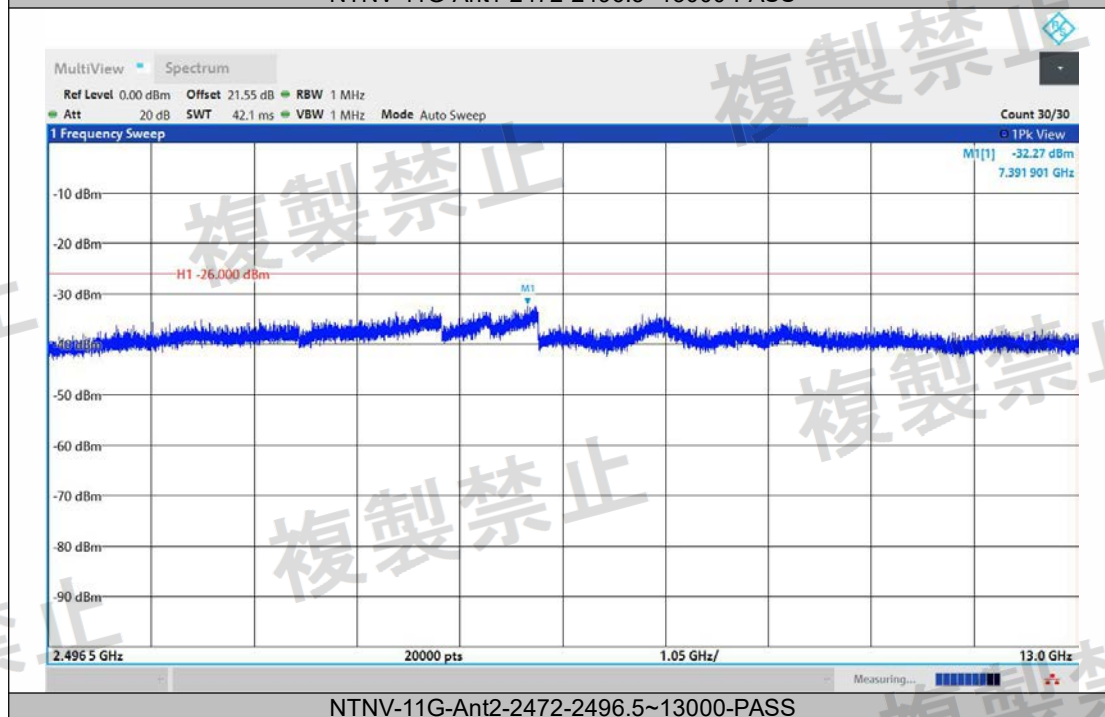
NTNV-11G-Ant1-2472-2483.5~2496.5-See table below



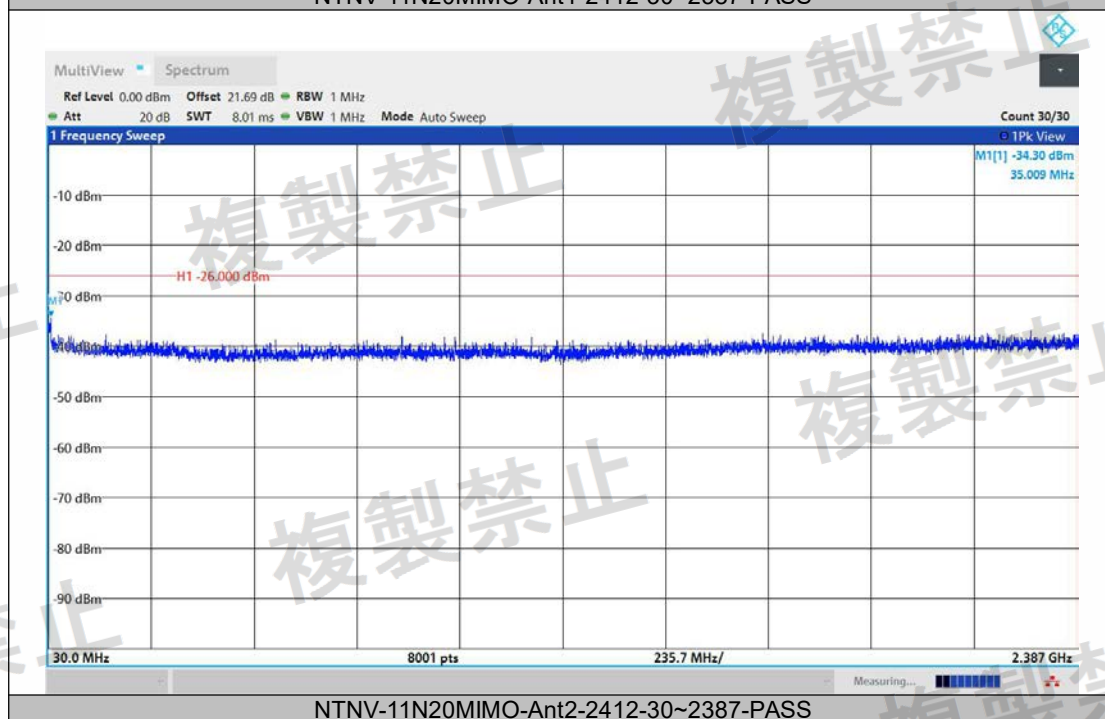
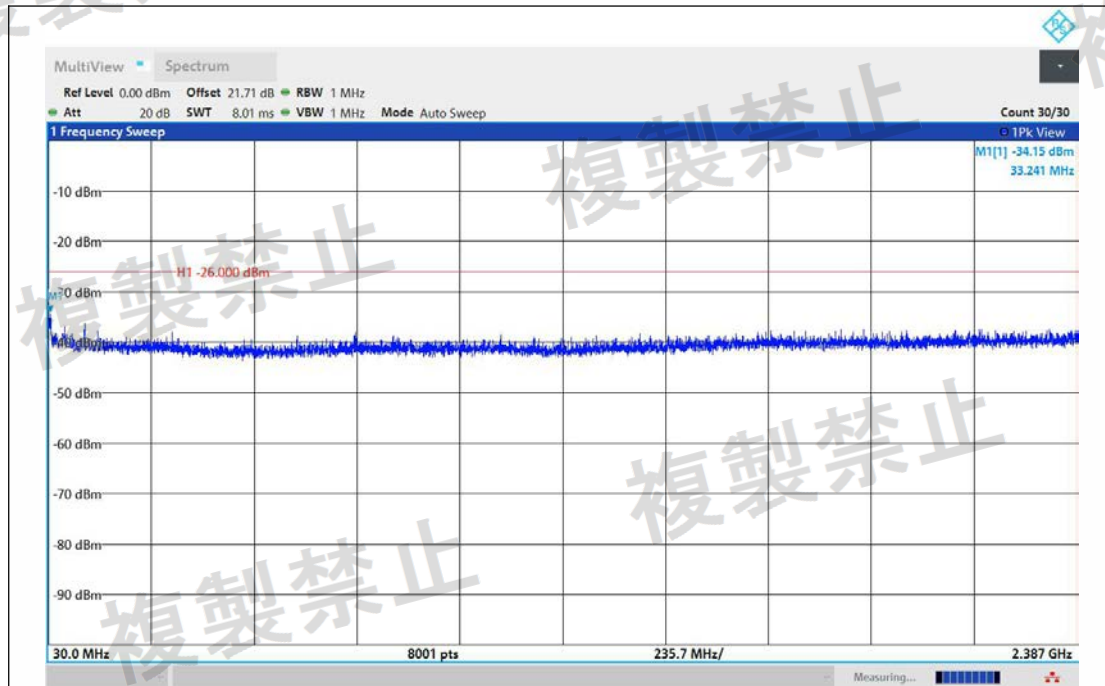
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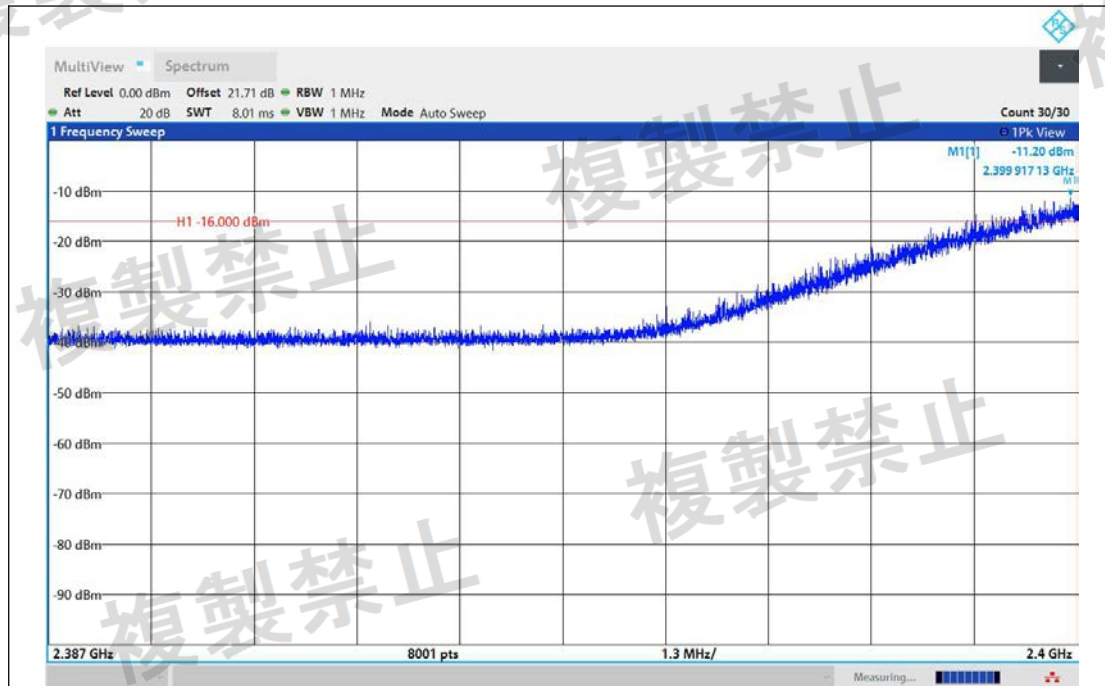


NTNV-11G-Ant1-2472-2496.5~13000-PASS

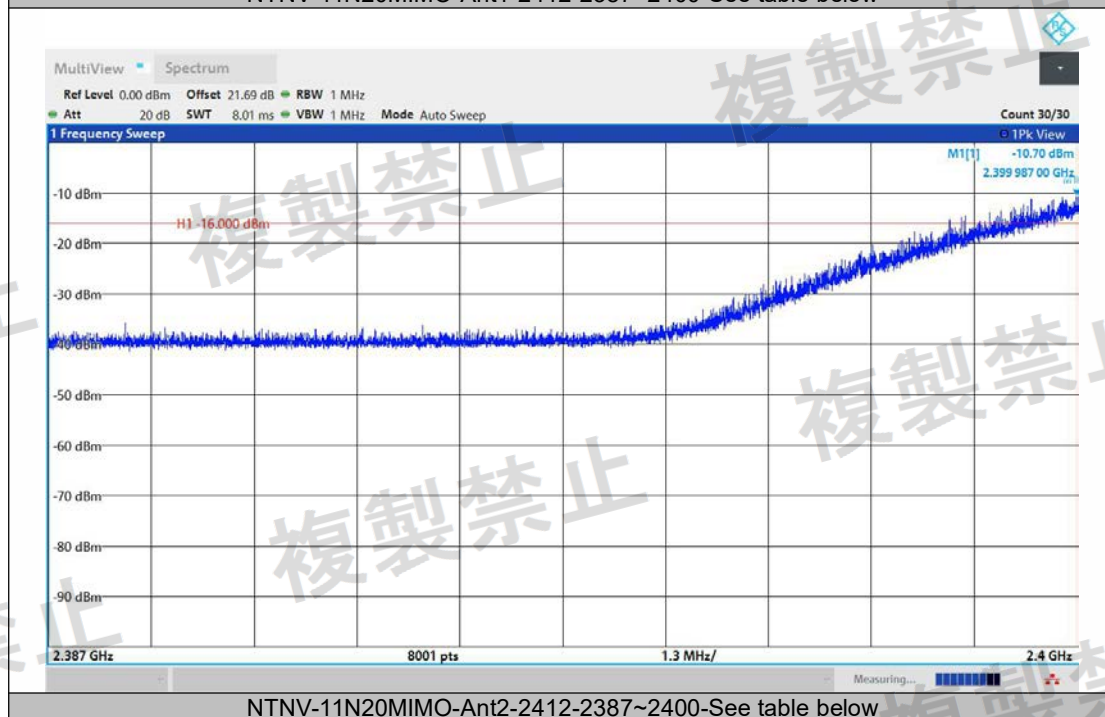


NTNV-11G-Ant2-2472-2496.5~13000-PASS





NTNV-11N20MIMO-Ant1-2412-2387~2400-See table below



NTNV-11N20MIMO-Ant2-2412-2387~2400-See table below