

Test Report

Report No. : MTi251010018-0101E2
Date of issue : 2025-10-21
Applicant : Yuanmeng Chuangzhi Technology (Shenzhen)
Co., Ltd.
Product : E10F Sonic Vibration Electric Toothbrush
Model(s) : E10F

Shenzhen Microtest Co., Ltd.

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Test Result Certification

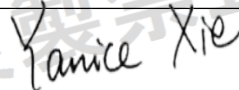
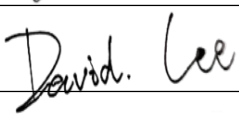
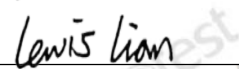
Applicant	Yuanmeng Chuangzhi Technology (Shenzhen) Co., Ltd.
Applicant Address	19th Floor, Tower A, Guangqi Future Center, 88 Gaoxin Nan 4th Road, High-Tech Zone Community, Yuehai Street, Nanshan District, Shenzhen China
Manufacturer	Yuanmeng Chuangzhi Technology (Shenzhen) Co., Ltd.
Manufacturer Address	19th Floor, Tower A, Guangqi Future Center, 88 Gaoxin Nan 4th Road, High-Tech Zone Community, Yuehai Street, Nanshan District, Shenzhen China

Product description

Product name	E10F Sonic Vibration Electric Toothbrush
Trademark	N/A
Model name	E10F
Series Model(s)	N/A
Standards	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43

Testing Information

Date of test	2025-10-14 to 2025-10-16
Test result	Pass

Prepared by:	Yanice Xie	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

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1 General Description

1.1 Description of the EUT

Product name:	E10F Sonic Vibration Electric Toothbrush
Model name:	E10F
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/1A Battery: DC 3.7V 2.5A
Accessories:	Cable: USB-A to USB-C cable 0.5m*1
Hardware version:	V1.0.1
Software version:	V1.0.0
Test sample(s) number:	MTi251010018-01-R001
RF specification	
Operating frequency range:	2412-2472MHz
Channel number:	13 channels for 20MHz bandwidth; 9 channels for 40MHz bandwidth
Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna(s) type:	Ceramic Antenna
Antenna(s) gain:	-1.57 dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	802.11b TX mode
Mode2	802.11g TX mode
Mode3	802.11n20 TX mode
Mode4	802.11n40 TX mode
Mode5	unmodulated carrier
Mode6	RX mode

1.2.1 Operation channel list

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

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4	2427	9	2452	/	/
5	2432	10	2457	/	/

Test Channel List Operation Band:

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2442	2472
40	2422	2442	2462

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: EspRFTTestTool

For power setting, refer to below table.

Mode	2412MHz	2442MHz	2472MHz
802.11b	10	10	10
802.11g	10	10	10
802.11n20	10	10	10
Mode	2422MHz	2442MHz	2462MHz
802.11n40	10	10	10

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1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

Test Conditions		Power Supply (V)	Input Voltage to the circuit of RF unit (V)
NTNV (V_{normal})	/	3.7	3.3
NTHV ($V_{max.}$)	+10%	4.07	3.3
NTLV ($V_{min.}$)	-10%	3.33	3.3

Note: If the fluctuation of input voltage to the circuit of RF unit (except power supply) of test equipment is under $\pm 1\%$, when input voltage from external power supply to the test equipment is fluctuated by $\pm 10\%$: conduct the test with the rated voltage only

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list

Description	Model	Serial No.	Manufacturer
Laptop	e485	/	Lenovo

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Parameter	Measurement uncertainty
Frequency tolerance	± 10 ppm
Occupied channel bandwidth	± 3 %
RF output power, conducted	± 1 dB
Power Spectral Density, conducted	± 1 dB
Unwanted Emissions, conducted	± 1 dB
All emissions, radiated	± 4.7 dB
Temperature	± 1 °C
Supply voltages	± 1 %
Time	± 1 %

Note: the measurement uncertainty is calculated and correspond to a factor $k=2$ (which provide confidence levels of 95.45%)

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2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Tolerance of Frequency	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
2	Occupied Bandwidth (99%)	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
3	Spread Factor	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
4	Antenna Power and Tolerance	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
5	Spurious Emission Intensity	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
6	Secondary Radiated Emissions	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
7	Carrier Sensing 1	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass Note 1
8	Carrier Sensing 2	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	N/A Note2
9	Interference Prevention Function	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass

Notes:

1. Apply for 802.11n40 which the Occupied bandwidth within 26MHz-40MHz.
2. N/A means not applicable. Since EIRP does not require compensation through Antenna Power.

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3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

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4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	Calibration method
Spurious Emission Intensity Secondary Radiated Emissions Carrier Sensing 1 Carrier Sensing 2 Tolerance of Frequency Occupied Bandwidth (99%) Spread Factor Antenna Power and Tolerance							
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17	C
2	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13	C
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13	C
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-14	2026-03-13	C
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-14	2026-03-13	C
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17	C
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-14	2026-03-13	C
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13	C
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17	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

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5 Evaluation Results (Evaluation)

5.1 Interference Prevention Function

Test Requirement:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Test Method:	Notification No.88 of MIC, 2004
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

5.1.1 Conclusion:

The detected ID of the device is below: 206EF1C43917

Test result: The device meet the requirements
PASS

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6 Radio Spectrum Matter Test Results (RF)

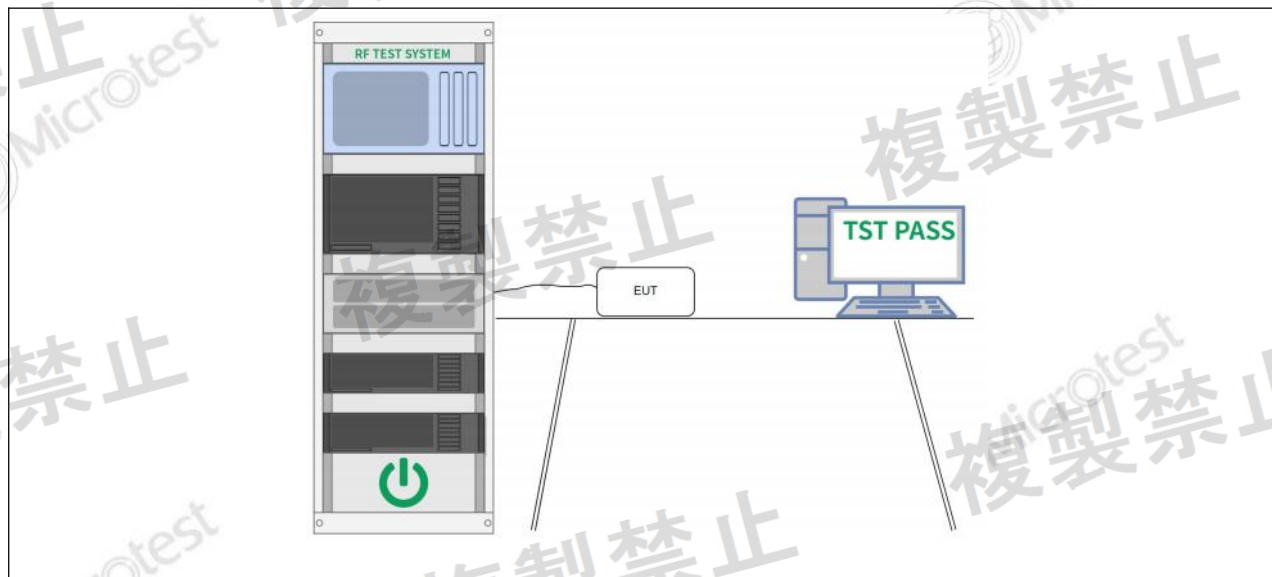
6.1 Tolerance of Frequency

Test Requirement:	Article 2-1, Item 19	
Test Limit:	±50ppm or less.	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	Center frequency:	Test frequency
	Span:	2 times channel bandwidth
	RBW:	unmodulated 10kHz
	VBW:	unmodulated 10kHz
	Sweep data points:	1001 or greater
	Sweep time:	Auto
	Detector mode:	Positive peak
	Indication mode:	Max hold
If the EUT cannot transmit in un-modulated mode then modulated mode measurements can be made, as follows:		
If the spectrum observed using the spectrum analyzer has a characteristic dip at the center, then the center frequency of the dip shall be regarded as the center frequency of the carrier.		

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode5				
Final test mode:	Mode5				

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

Please Refer to Appendix for Details.

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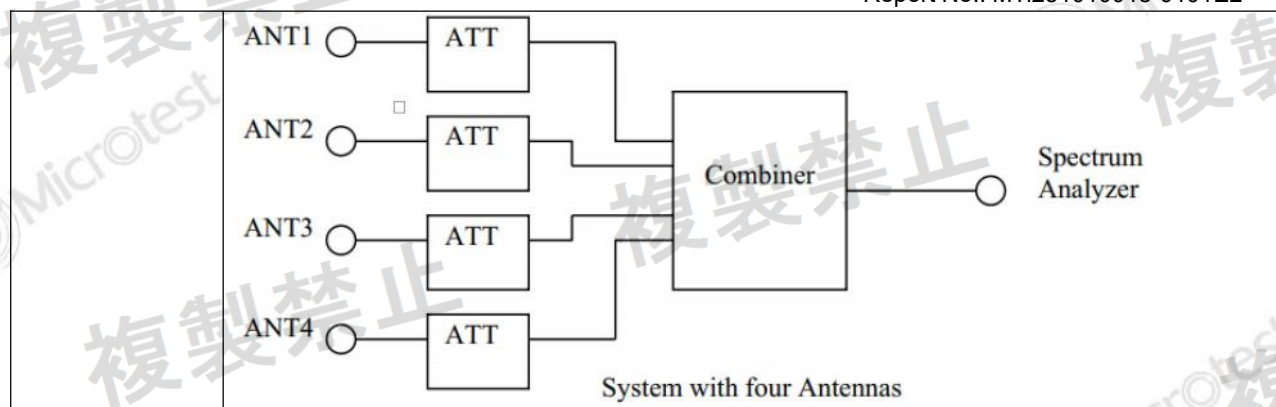
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6.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19																		
Test Limit:	For OFDM Modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 40 MHz or less For DSSS or other modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 26 MHz or less																		
Test Method:	Notification No.88 of MIC, 2004																		
Procedure:	<table border="1"> <tr> <td>Center Frequency:</td><td>Test frequency</td></tr> <tr> <td>Span:</td><td>2 - 3.5 times the technical standard</td></tr> <tr> <td>RBW:</td><td>Within 3% of the technical standard</td></tr> <tr> <td>VBW:</td><td>Same as RBW</td></tr> <tr> <td>Sweep time:</td><td>Auto</td></tr> <tr> <td>Sweep data points:</td><td>1001 or greater</td></tr> <tr> <td>Detector mode:</td><td>Positive peak</td></tr> <tr> <td>Indication mode:</td><td>Max hold</td></tr> <tr> <td>BW setting:</td><td>99%</td></tr> </table> (1) Measure the signal bandwidth using a spectrum analyzer (2) For multiple antenna systems: a) Each antenna shall be individually measured b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:	Center Frequency:	Test frequency	Span:	2 - 3.5 times the technical standard	RBW:	Within 3% of the technical standard	VBW:	Same as RBW	Sweep time:	Auto	Sweep data points:	1001 or greater	Detector mode:	Positive peak	Indication mode:	Max hold	BW setting:	99%
Center Frequency:	Test frequency																		
Span:	2 - 3.5 times the technical standard																		
RBW:	Within 3% of the technical standard																		
VBW:	Same as RBW																		
Sweep time:	Auto																		
Sweep data points:	1001 or greater																		
Detector mode:	Positive peak																		
Indication mode:	Max hold																		
BW setting:	99%																		

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6.2.1 E.U.T. Operation:

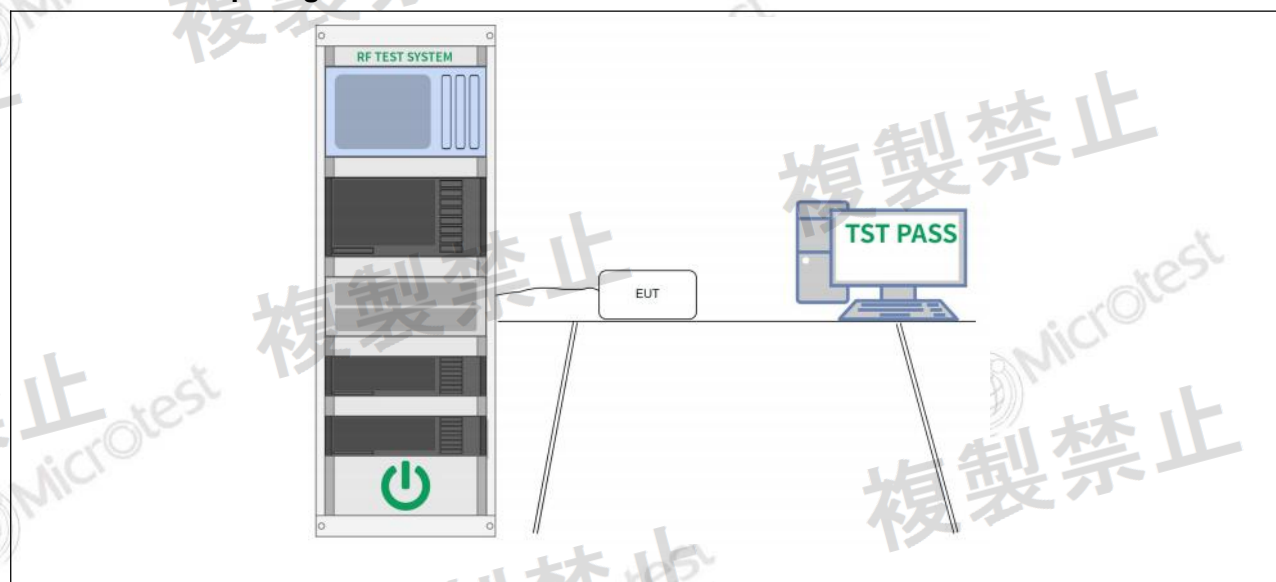
Operating Environment:

Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
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Pre test mode:	Mode1, Mode2, Mode3, Mode4
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Final test mode:	Mode1, Mode2, Mode3, Mode4
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6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

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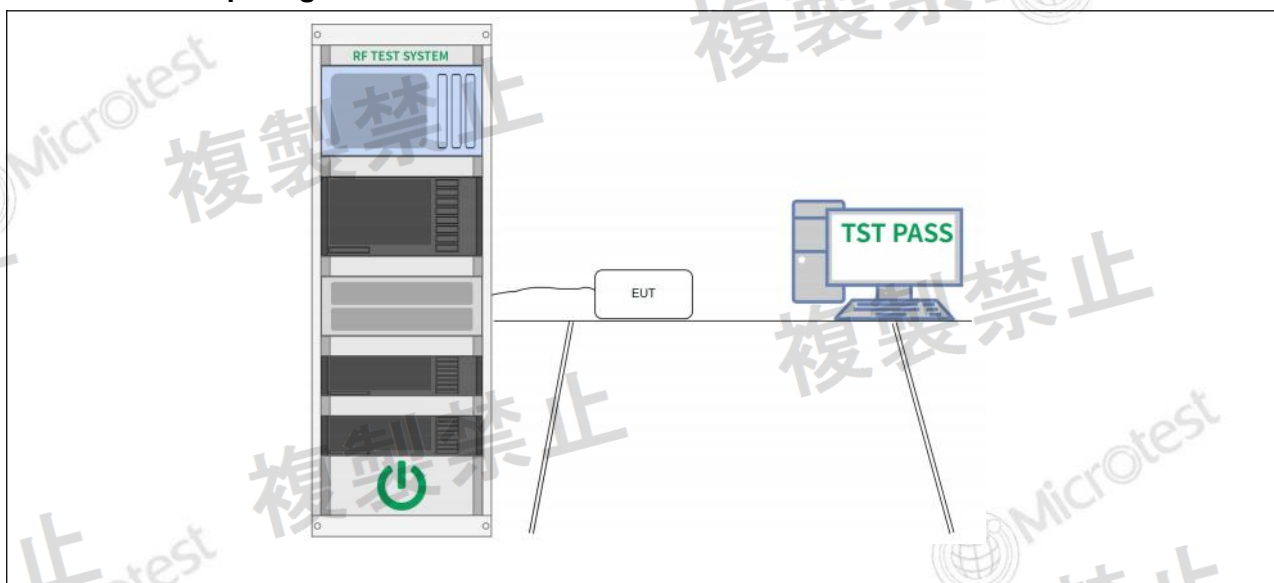
6.3 Spread Factor

Test Requirement:	Article 2-1, Item 19
Test Limit:	The spread factor should be more than 5.
Test Method:	The test method is the same as spread bandwidth.
Procedure:	The test procedure is the same as spread bandwidth.

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

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6.4 Antenna Power and Tolerance

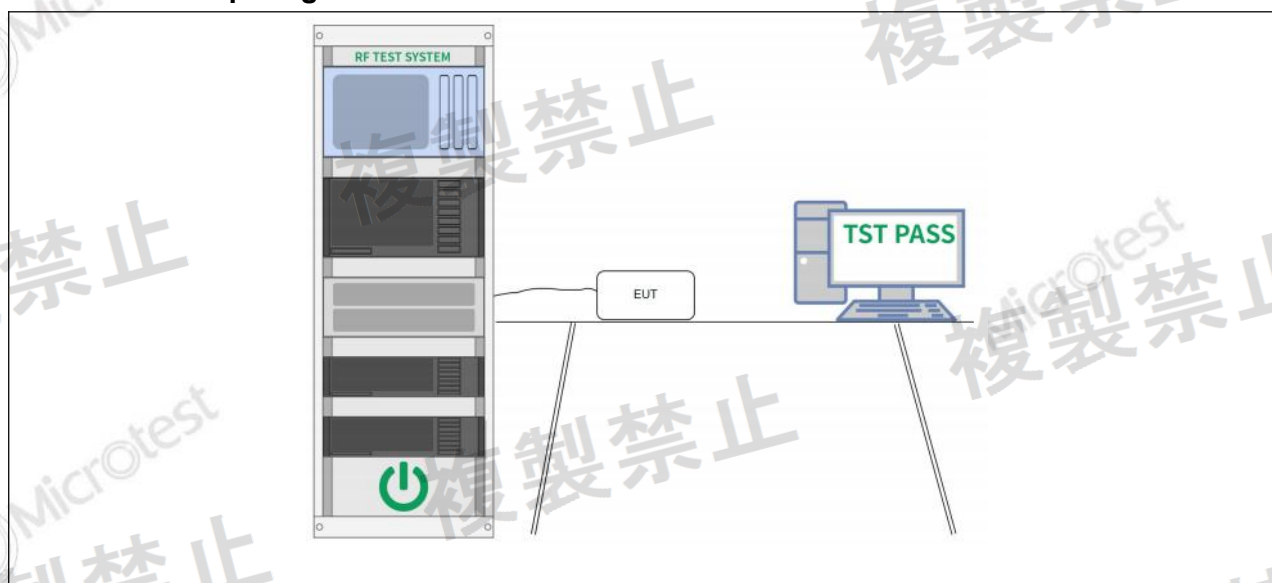
Test Requirement:	Article 2-1, Item 19
Test Limit:	Antenna Power: $26\text{MHz} < \text{OBW} \leq 40\text{MHz}$: 5 mW/MHz or less Tolerance: +20% or less EIRP: 9.13dBm/MHz Antenna Power: $\text{OBW} \leq 26\text{MHz}$: 10mW/MHz or less Tolerance: +20% or less EIRP: 12.14dBm/MHz
Test Method:	Notification No.88 of MIC, 2004
Procedure:	Connect high frequency power meter to the RF output of the EUT with a suitable attenuator and measure the total electric power.



6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

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6.5 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19	
Test Limit:	(1) Below 2387 MHz: 2.5 μ W (-26 dBm)/MHz or less (2) 2387 to 2400 MHz: 25.0 μ W (-16 dBm)/MHz or less (3) 2483.5 to 2496.5 MHz: 25.0 μ W (-16 dBm)/MHz or less (4) Over 2496.5 MHz: 2.5 μ W (-26 dBm)/MHz or less	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1]	
	Frequency range:	(see Note 1)
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement
	Sweep Data Points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold (see Note 2)
	Note 1:	Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases: -FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz -Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz
	Note 2:	Sweep shall be repeated until the max hold waveform is stable.
	[Setting 2]	
	Center frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval
	Sweep Data Points:	1001 or greater
	Detector mode:	Sample
	[Setting 3]	
	Frequency range:	2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz
	RBW:	30 kHz
	VBW:	30 kHz
	Sweep time:	Minimum time required to make an accurate

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	measurement.
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.

If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.

If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)

(3) In the following cases, measure the spurious emissions using [Setting 3]

- Case1: FHSS, FHSS+DSSS, FHSS+OFDM
- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit

(4) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)

Note: 15.2dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz

RBW of measurement = 30 kHz

(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes: Frequency: Frequency of spurious emission

Span: 1 MHz

(7) After sweep, send the span data set to the PC

(8) Convert measured data from dBm to Watts

(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)

Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)

n: Number of measurement points in the Span

k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide

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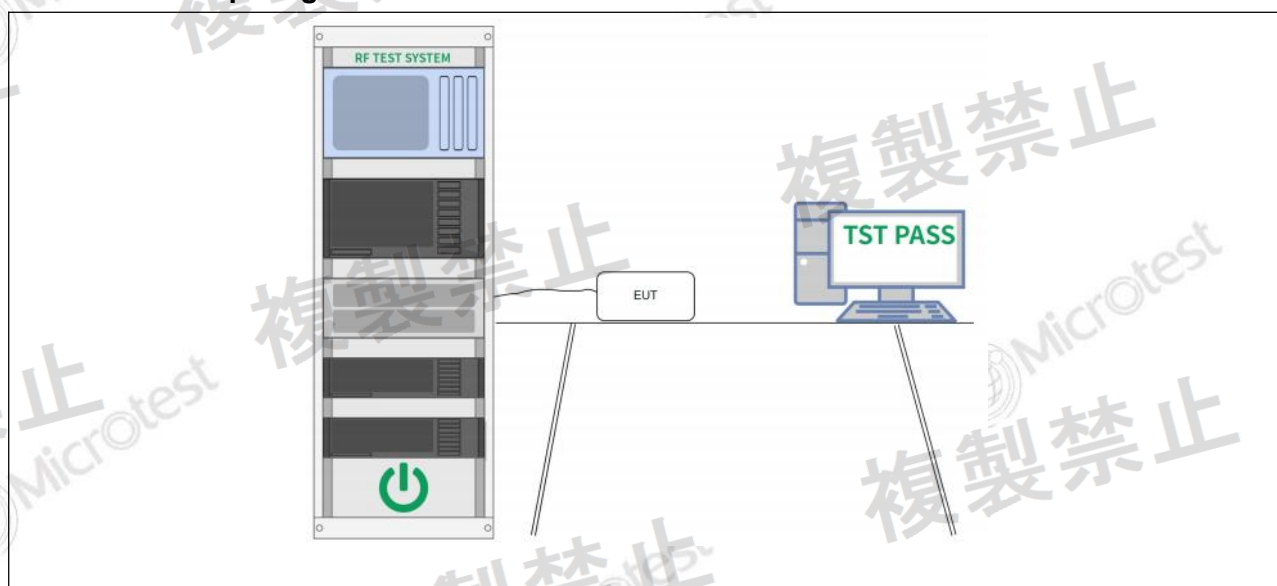
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RBW: Resolution Bandwidth (MHz).
(10) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)
(11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values
(12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)
(13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard)
(14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

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6.6 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19		
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less		
Test Method:	Notification No.88 of MIC, 2004		
Procedure:	[Setting 1]		
	Frequency range:	30 MHz ~ 12.5 GHz	
	RBW:	Below 1 GHz:100 kHz	
		Above 1 GHz:1 MHz	
	VBW:	Below 1 GHz:100 kHz	
		Above 1 GHz:1 MHz	
	Sweep time:	Auto	
	Sweep data points:	1001 or greater	
	Detector mode:	Positive peak	
	Indication mode:	Max hold	
	[Setting 2]		
	Center Frequency:	Frequency of spurious emission found using [Setting 1]	
	Span:	0 Hz	
	RBW:	Below 1 GHz:100 kHz	
		Above 1 GHz:1 MHz	
	VBW:	Below 1 GHz:100 kHz	
		Above 1 GHz:1 MHz	
	Sweep time:	Auto	
	Sweep data points:	1001 or greater	
	Detector mode:	Sample	

6.6.1 E.U.T. Operation:

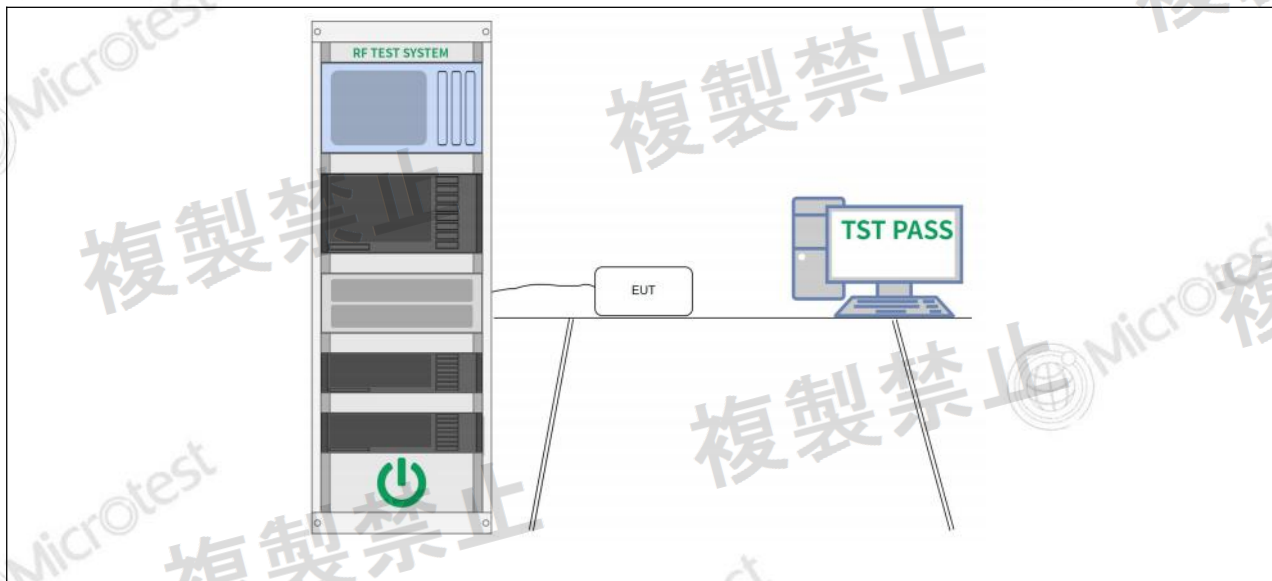
Operating Environment:					
Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode5				

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Final test mode:	Mode5
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6.6.2 Test Setup Diagram:



6.6.3 Test Data:

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6.7 Carrier Sensing 2

Test Requirement:	Article 2-1, Item 19	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	Signal Generator Settings	
	[Setting 1]	
	Output frequency:	Center of test frequency
	Modulation:	Un-modulated, see note
	Output level:	The required level at the EUT antenna input, as defined by the applicant
	Note:	
	If the EUT's carrier sensing cannot function with an un-modulated signal at the center of the test frequency, then the un-modulated signal can be moved away from the center.	
	Spectrum Analyzer Settings	
	[Setting 2]	
	Frequency:	Center of test frequency
	Span:	50 MHz
	RBW:	1 MHz
	VBW:	1 MHz
	Trigger:	Free running
	Detector:	Positive peak
	Testing without a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) With the signal generator OFF, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(3) Set the EUT to receive mode	
	(4) First, set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	Testing with a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) Set the signal generator output to OFF	
	(3) After establishing a connection between the EUT and the Link Partner, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(4) Set the EUT to receive mode	
	(5) Set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	

6.7.1 E.U.T. Operation:

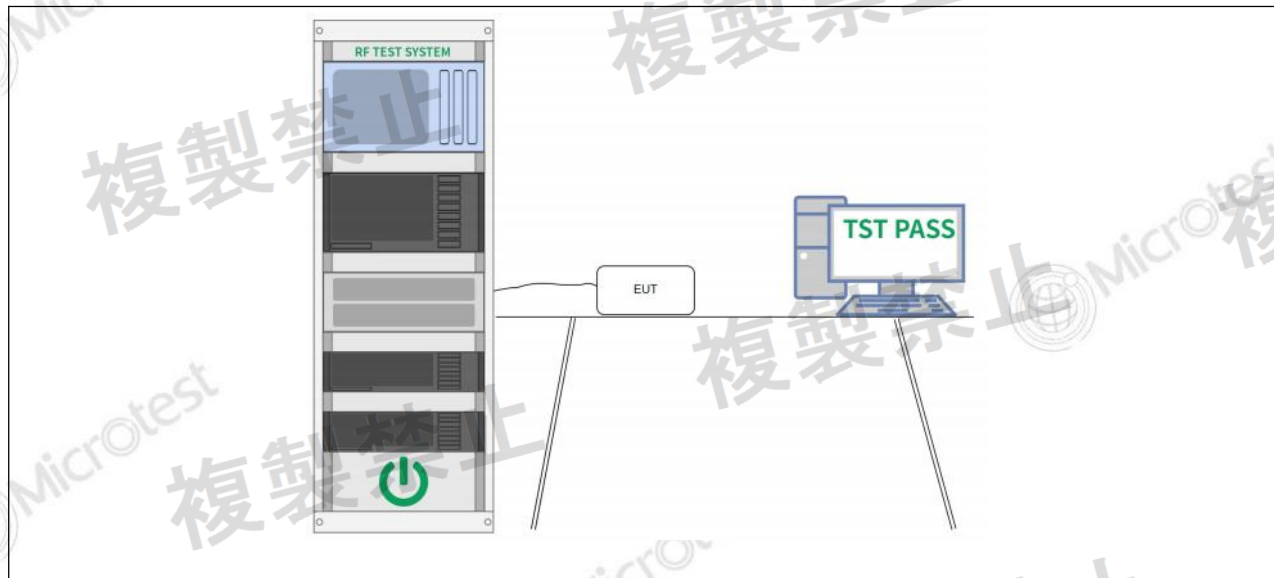
Operating Environment:

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Temperature:	25.2 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode4				
Final test mode:	Mode4				

6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Test Mode	Test Voltage	Channel	Results
IEEE802.11n HT40	LV	Low	GOOD
		Middle	GOOD
		High	GOOD
	NV	Low	GOOD
		Middle	GOOD
		High	GOOD
	HV	Low	GOOD
		Middle	GOOD
		High	GOOD

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

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Appendix A: Frequency Error

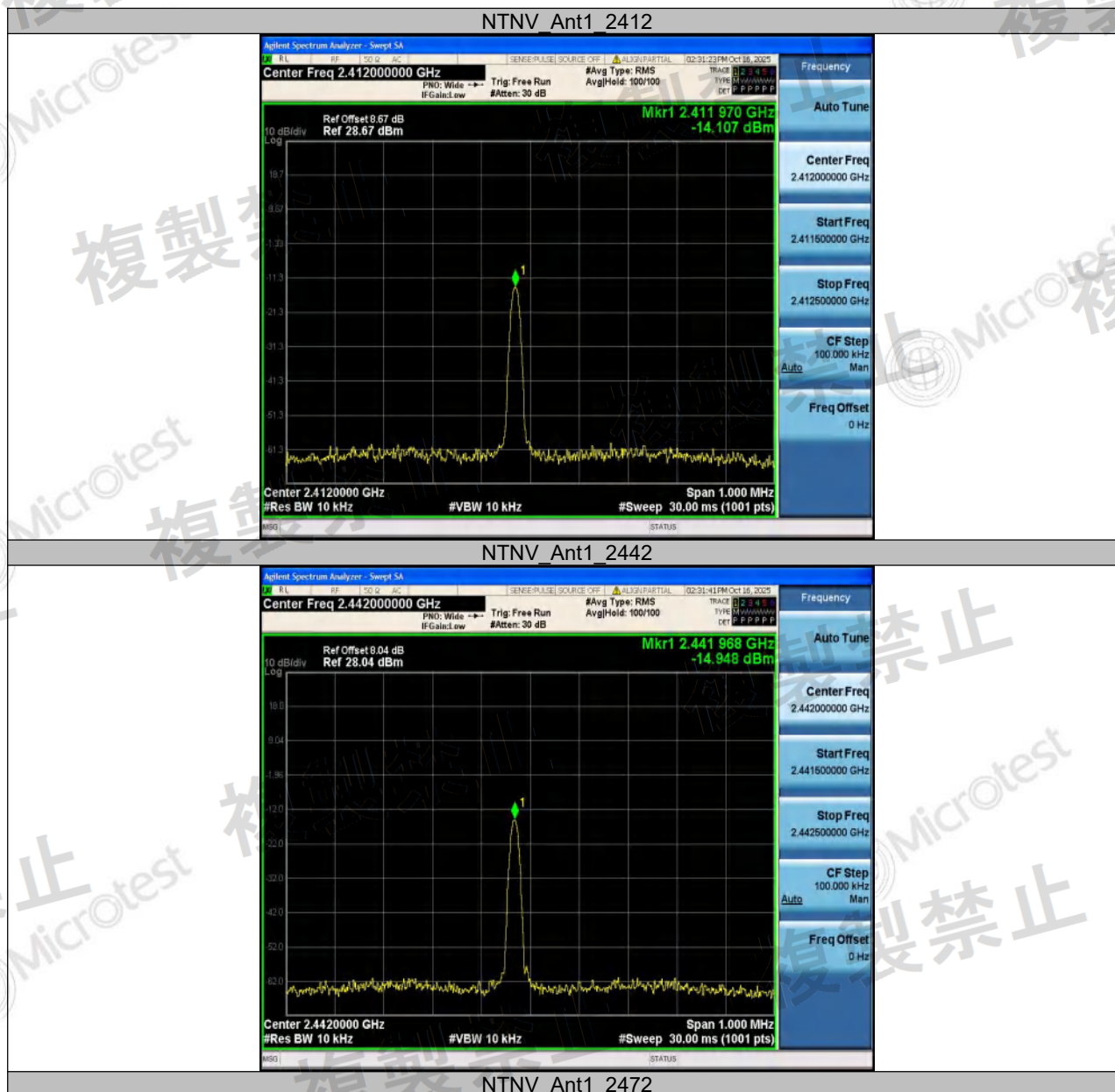
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	unmodulated carrier	Ant1	2412	2411.97	-12.43781	±50	PASS
			2442	2441.968	-13.10401	±50	PASS
			2472	2471.967	-13.34952	±50	PASS
	unmodulated carrier	Ant1	2422	2421.968	-13.21222	±50	PASS
			2442	2441.967	-13.51351	±50	PASS
			2462	2461.967	-13.40374	±50	PASS

TEST REPORT

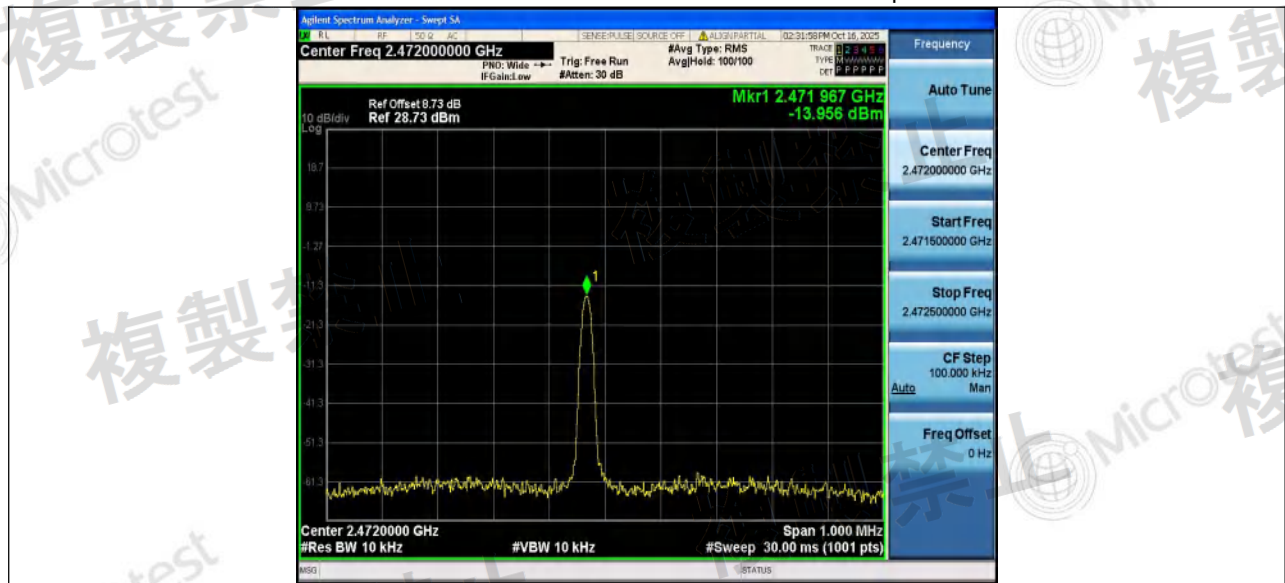
Report No.: MTi251010018-0101E2

Test Graphs

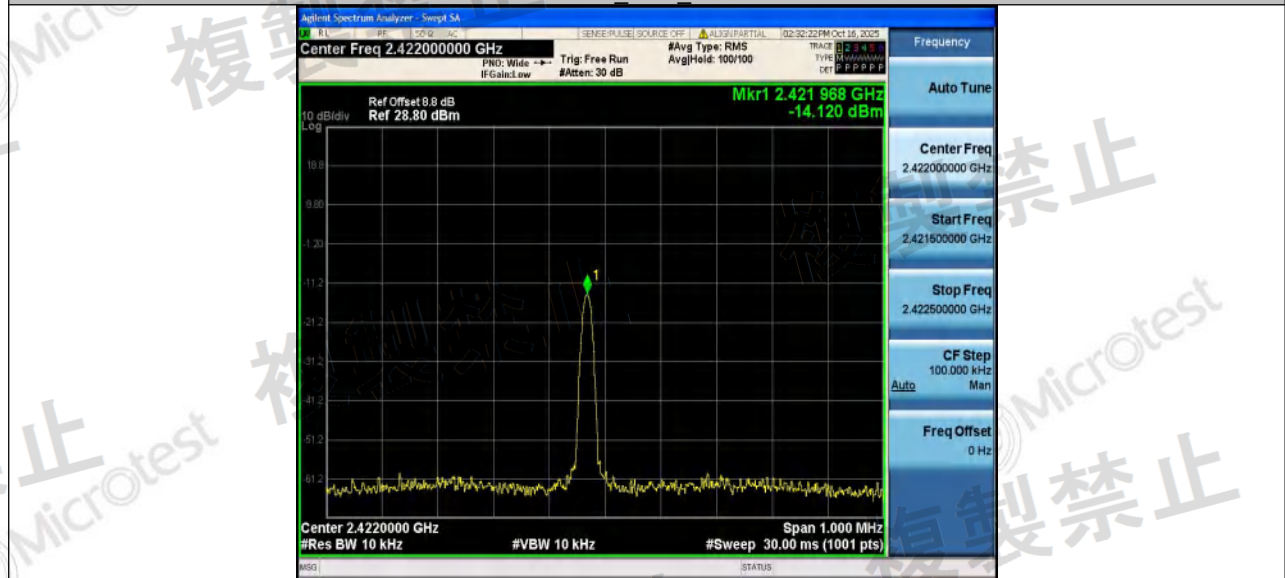


TEST REPORT

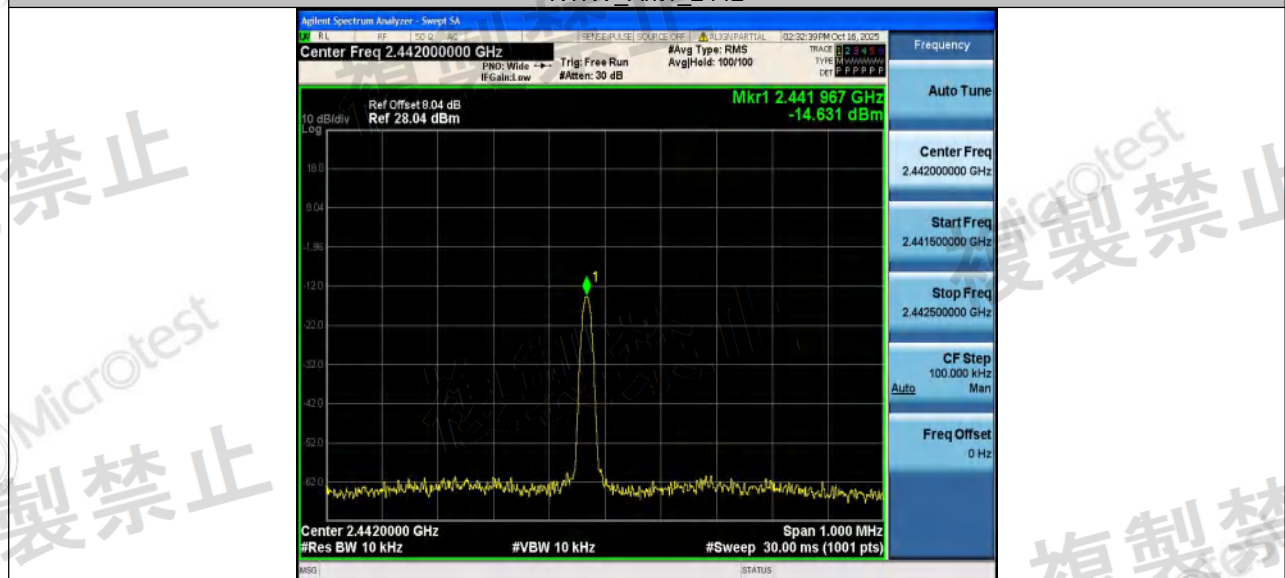
Report No.: MTi251010018-0101E2



NTNV_Ant1_2422

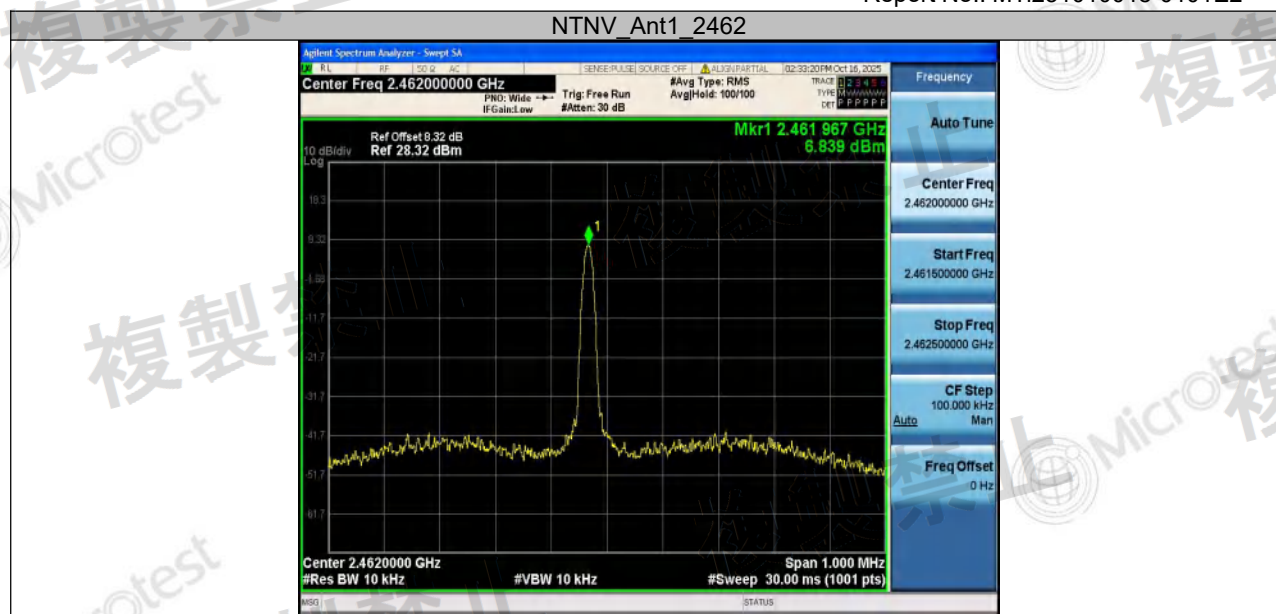


NTNV_Ant1_2442



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Appendix B: Antenna Power

Test Result

Antenna Power							
Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/MHz)	Result(mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11B	Ant1	2412	-26.77	0.0021	≤10	PASS
			2442	-27.30	0.0019	≤10	PASS
			2472	-27.73	0.0017	≤10	PASS
	11G	Ant1	2412	-10.46	0.0899	≤10	PASS
			2442	-10.41	0.0910	≤10	PASS
			2472	-10.44	0.0904	≤10	PASS
	11N20SISO	Ant1	2412	-11.09	0.0778	≤10	PASS
			2442	-11.31	0.0740	≤10	PASS
			2472	-11.33	0.0736	≤10	PASS
	11N40SISO	Ant1	2422	-13.85	0.0412	≤5	PASS
			2442	-14.29	0.0372	≤5	PASS
			2462	-14.49	0.0356	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	0.0021	10	-99.98	≤20	PASS
			2442	0.0019	10	-99.98	≤20	PASS
			2472	0.0017	10	-99.98	≤20	PASS
	11G	Ant1	2412	0.0899	10	-99.10	≤20	PASS
			2442	0.0910	10	-99.09	≤20	PASS
			2472	0.0904	10	-99.10	≤20	PASS
	11N20SISO	Ant1	2412	0.0778	10	-99.22	≤20	PASS
			2442	0.0740	10	-99.26	≤20	PASS
			2472	0.0736	10	-99.26	≤20	PASS
	11N40SISO	Ant1	2422	0.0412	5	-99.18	≤20	PASS
			2442	0.0372	5	-99.26	≤20	PASS
			2462	0.0356	5	-99.29	≤20	PASS

EIRP							
Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/MHz)	EIRP(dBm/MHz)	Limit(dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	-26.77	-28.34	≤12.14	PASS
			2442	-27.30	-28.87	≤12.14	PASS
			2472	-27.73	-29.3	≤12.14	PASS
	11G	Ant1	2412	-10.46	-12.03	≤12.14	PASS
			2442	-10.41	-11.98	≤12.14	PASS
			2472	-10.44	-12.01	≤12.14	PASS
	11N20SISO	Ant1	2412	-11.09	-12.66	≤12.14	PASS
			2442	-11.31	-12.88	≤12.14	PASS
			2472	-11.33	-12.9	≤12.14	PASS
	11N40SISO	Ant1	2422	-13.85	-15.42	≤9.13	PASS
			2442	-14.29	-15.86	≤9.13	PASS
			2462	-14.49	-16.06	≤9.13	PASS

TEST REPORT

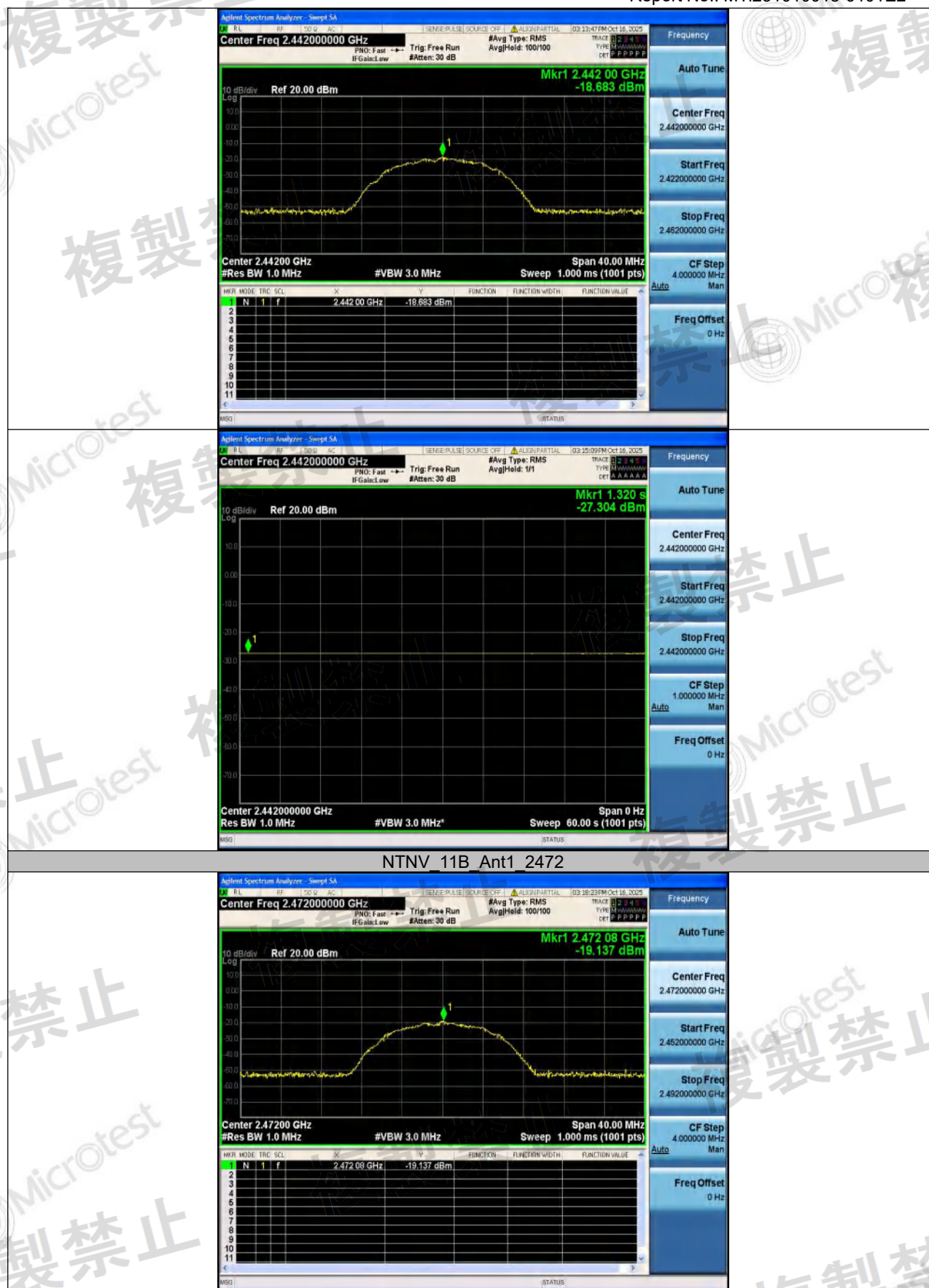
Report No.: MTi251010018-0101E2

Test Graphs



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Report No.: MTi251010018-0101E2



TEST REPORT

Report No.: MTi251010018-0101E2



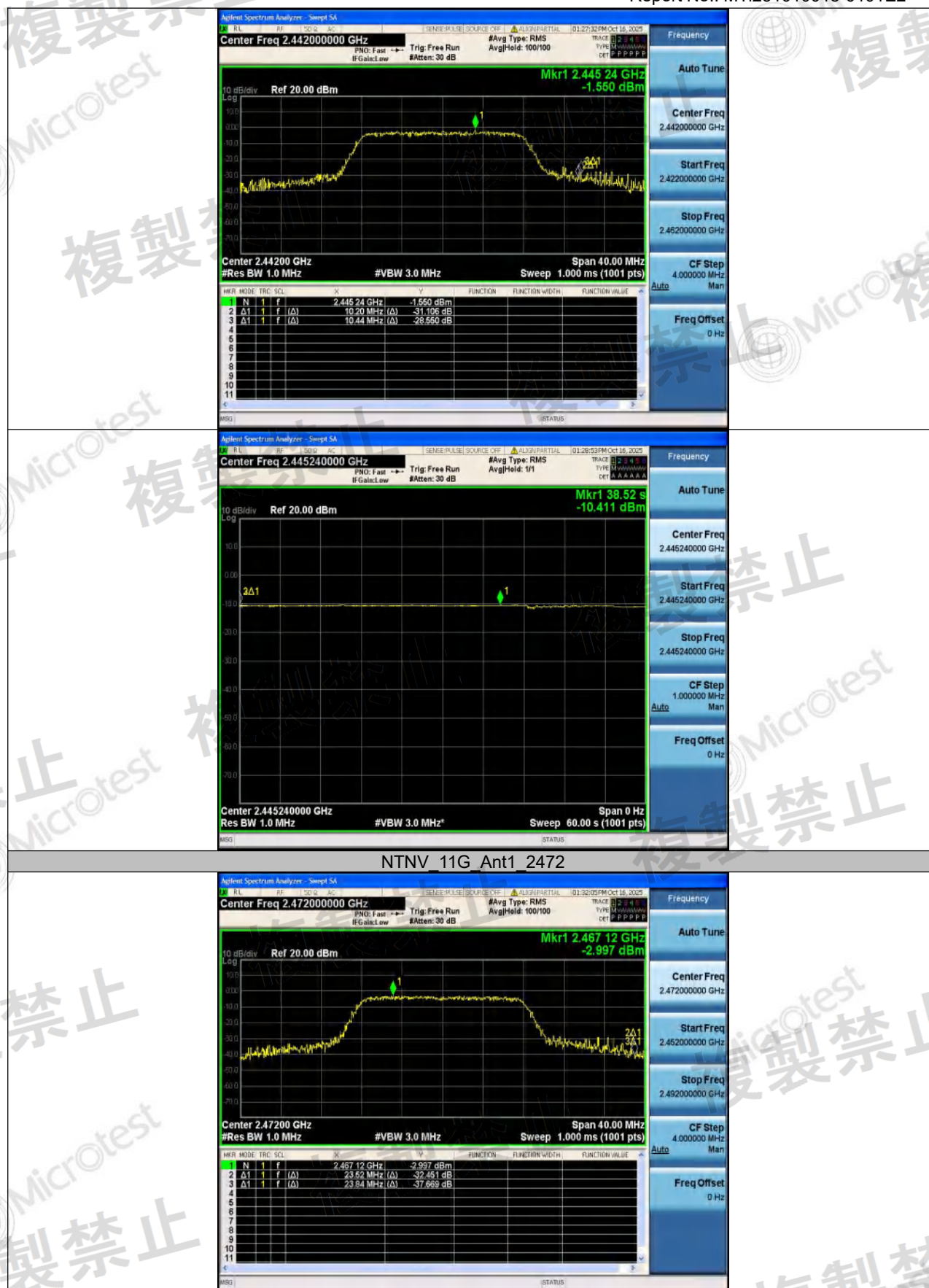
NTNV_11G_Ant1_2412



NTNV_11G_Ant1_2442

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NTNV 11G Ant1 2472

TEST REPORT

Report No.: MTi251010018-0101E2



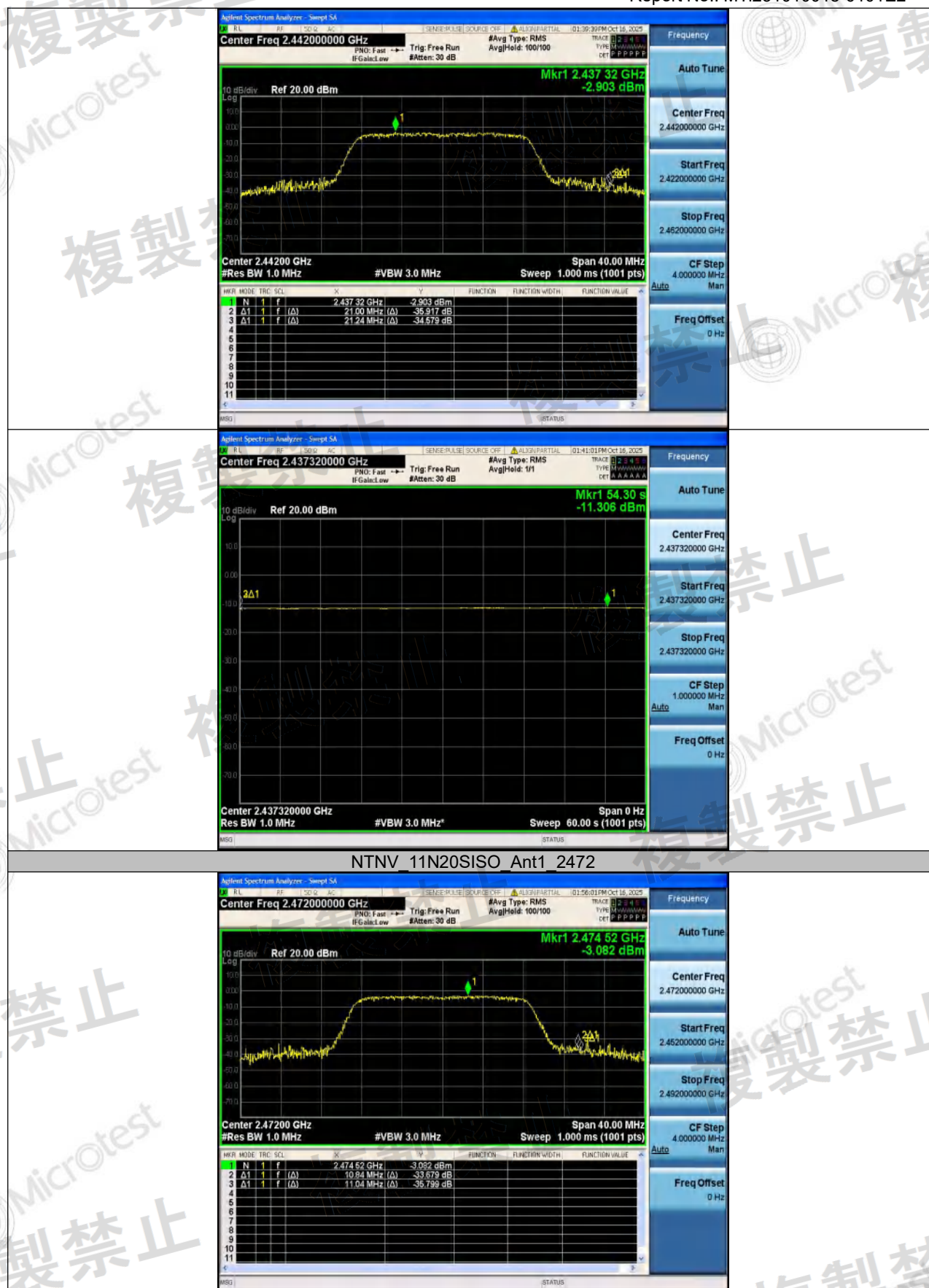
NTNV 11N20SISO Ant1 2412



NTNV 11N20SISO Ant1 2442

TEST REPORT

Report No.: MTi251010018-0101E2



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Report No.: MTi251010018-0101E2



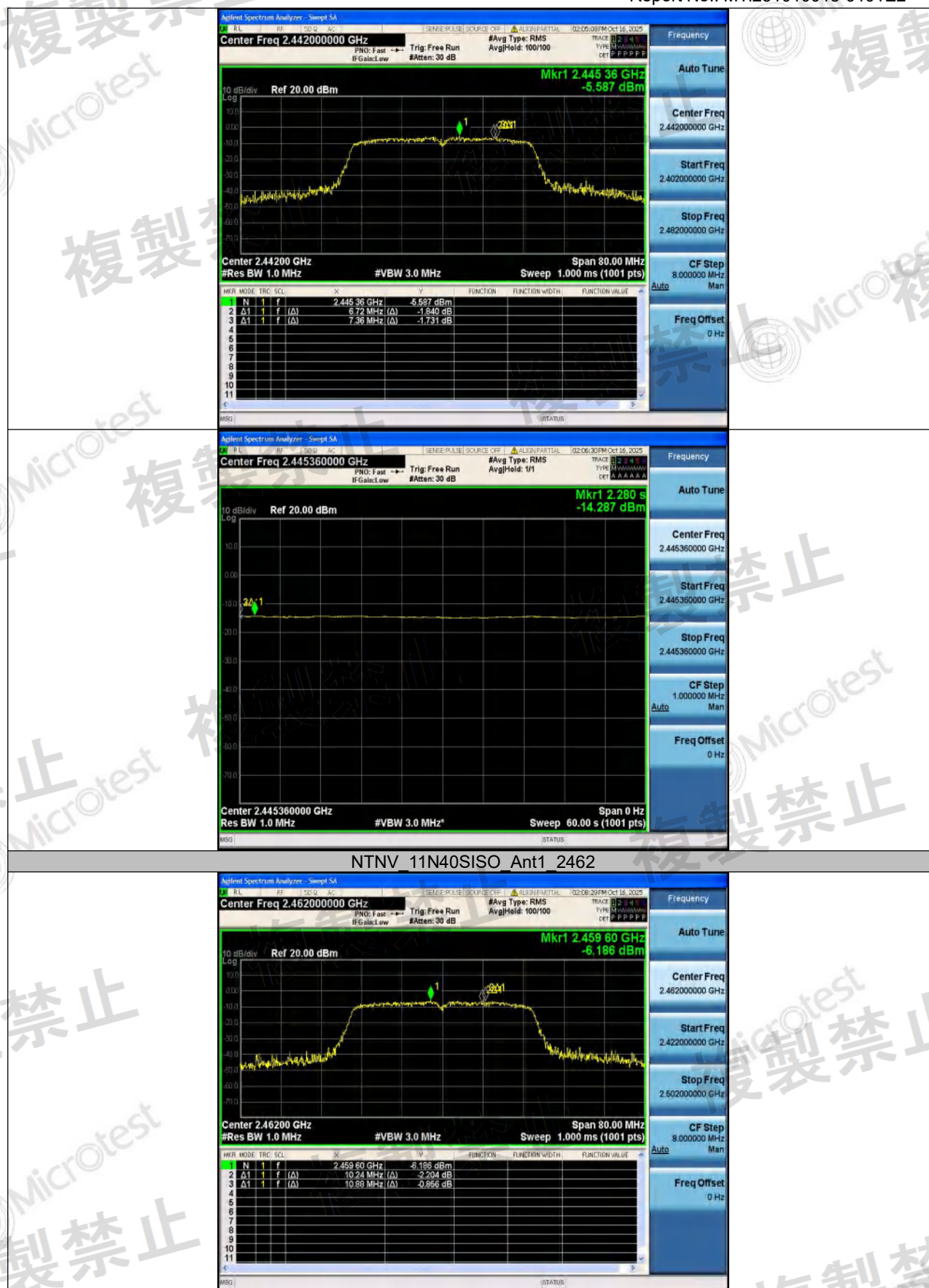
NTNV 11N40SISO Ant1 2422



NTNV 11N40SISO Ant1 2442

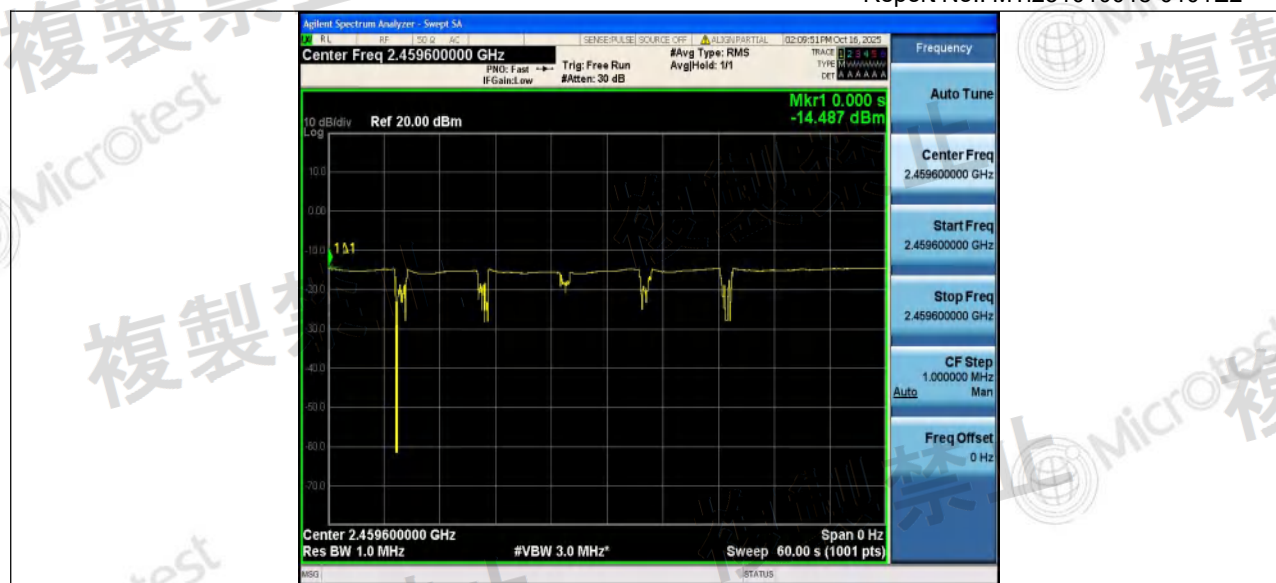
TEST REPORT

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TEST REPORT

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Appendix C: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	12.888	≤26	PASS
			2442	13.073	≤26	PASS
			2472	13.067	≤26	PASS
	11G	Ant1	2412	16.530	≤26	PASS
			2442	16.476	≤26	PASS
			2472	16.483	≤26	PASS
	11N20SISO	Ant1	2412	17.341	≤26	PASS
			2442	17.350	≤26	PASS
			2472	17.377	≤26	PASS
	11N40SISO	Ant1	2422	35.659	26-40	PASS
			2442	35.621	26-40	PASS
			2462	35.574	26-40	PASS

TEST REPORT

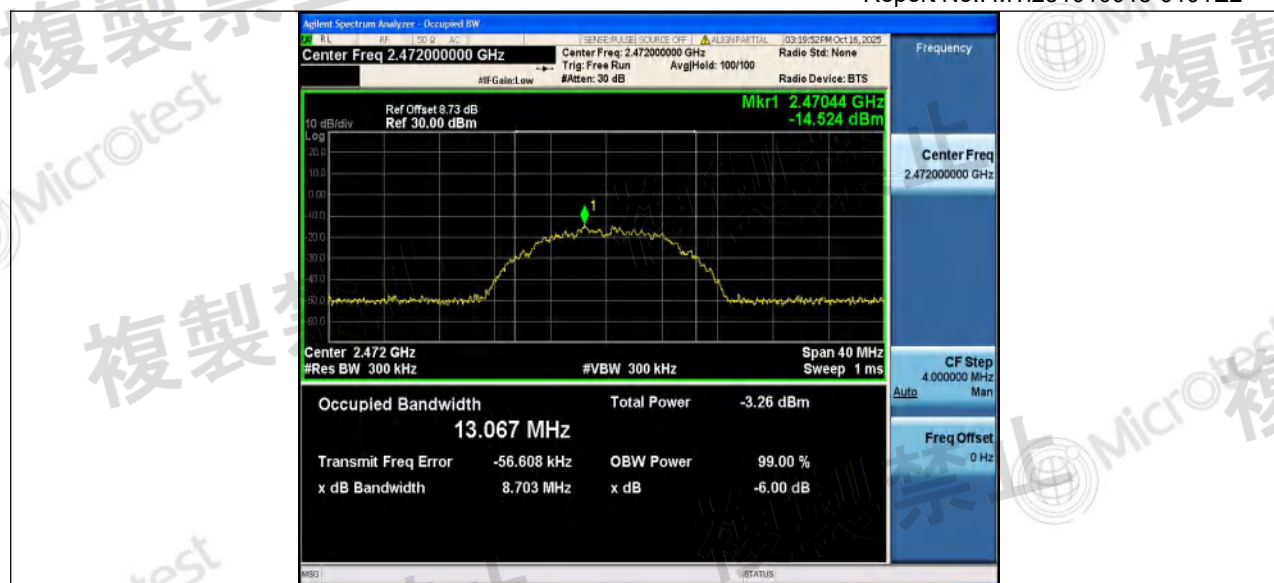
Report No.: MTi251010018-0101E2

Test Graphs

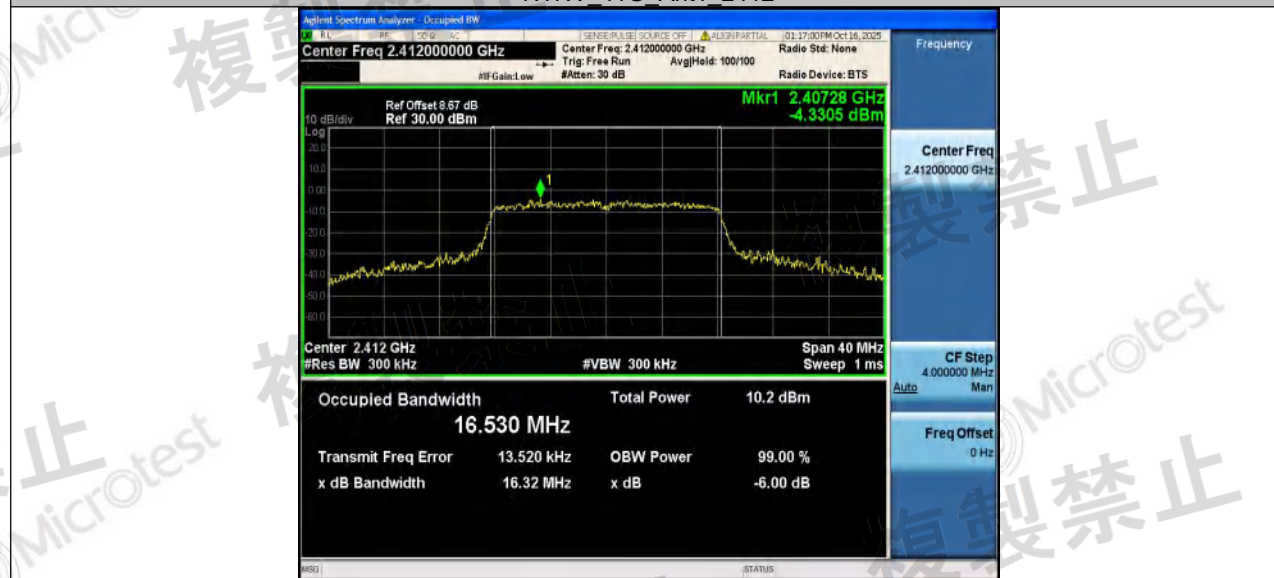


TEST REPORT

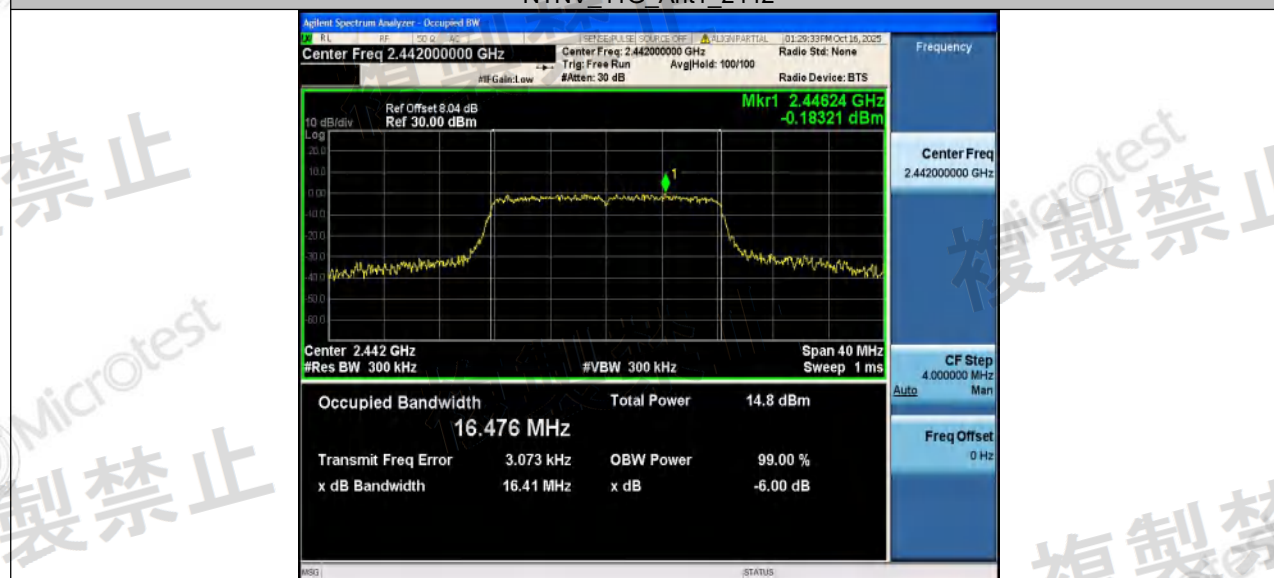
Report No.: MTi251010018-0101E2



NTNV_11G_Ant1_2412



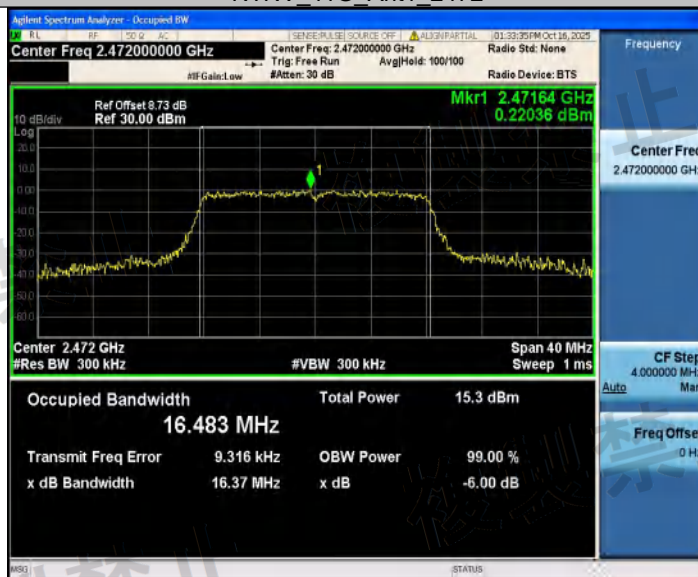
NTNV_11G_Ant1_2442



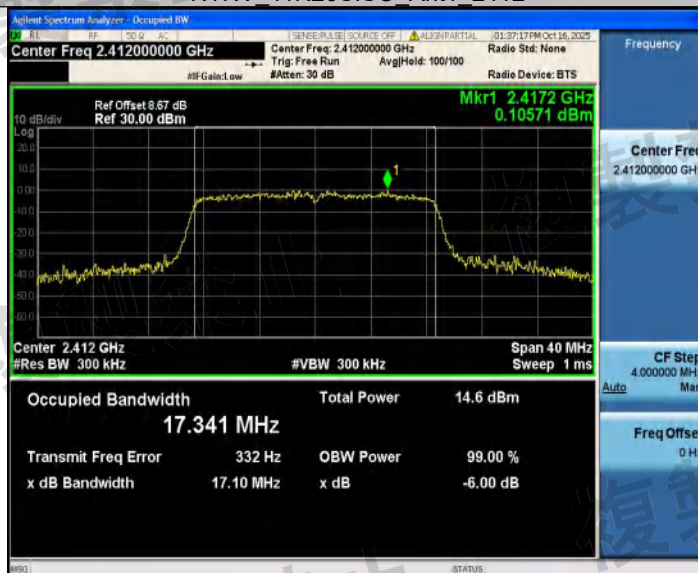
TEST REPORT

Report No.: MTi251010018-0101E2

NTNV_11G_Ant1_2472



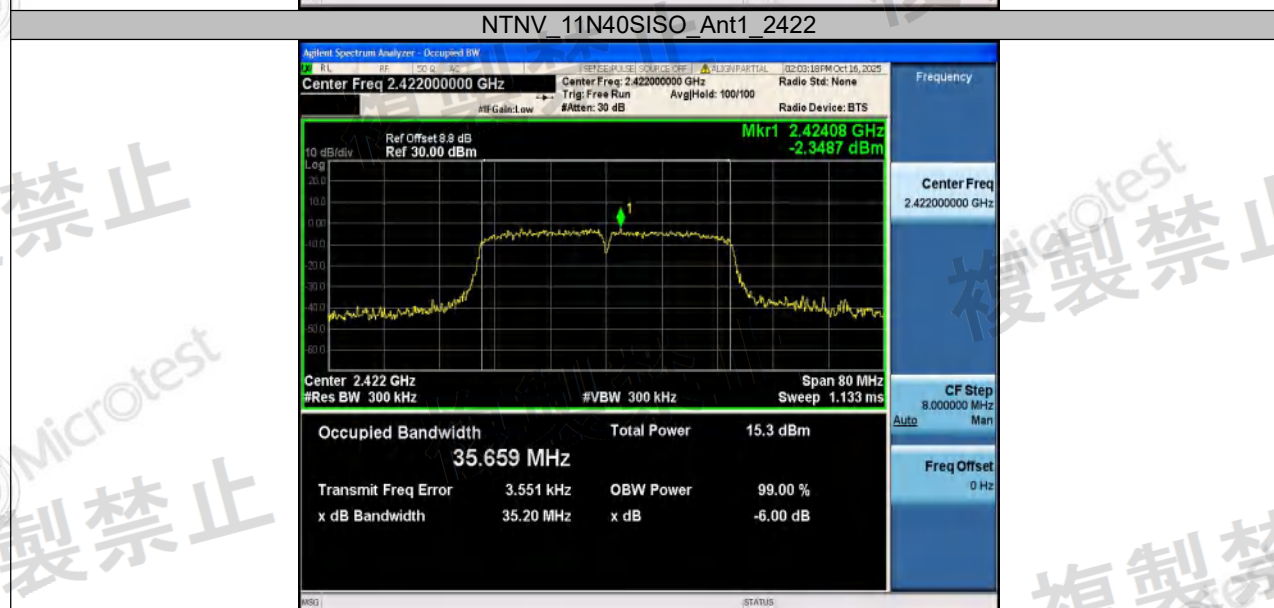
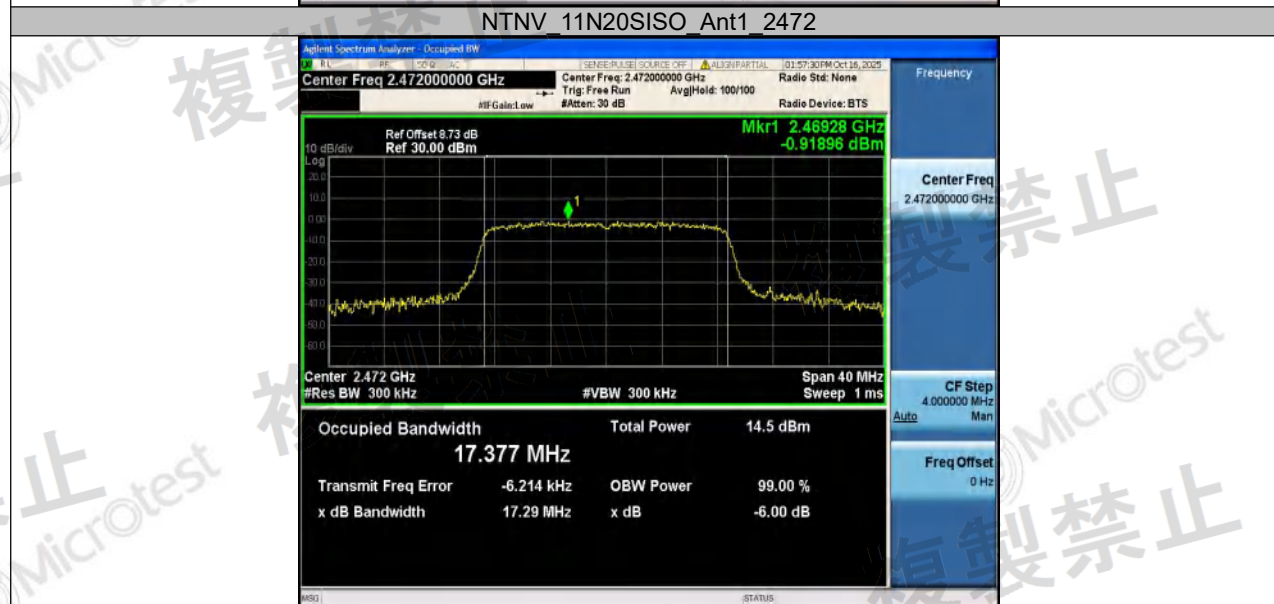
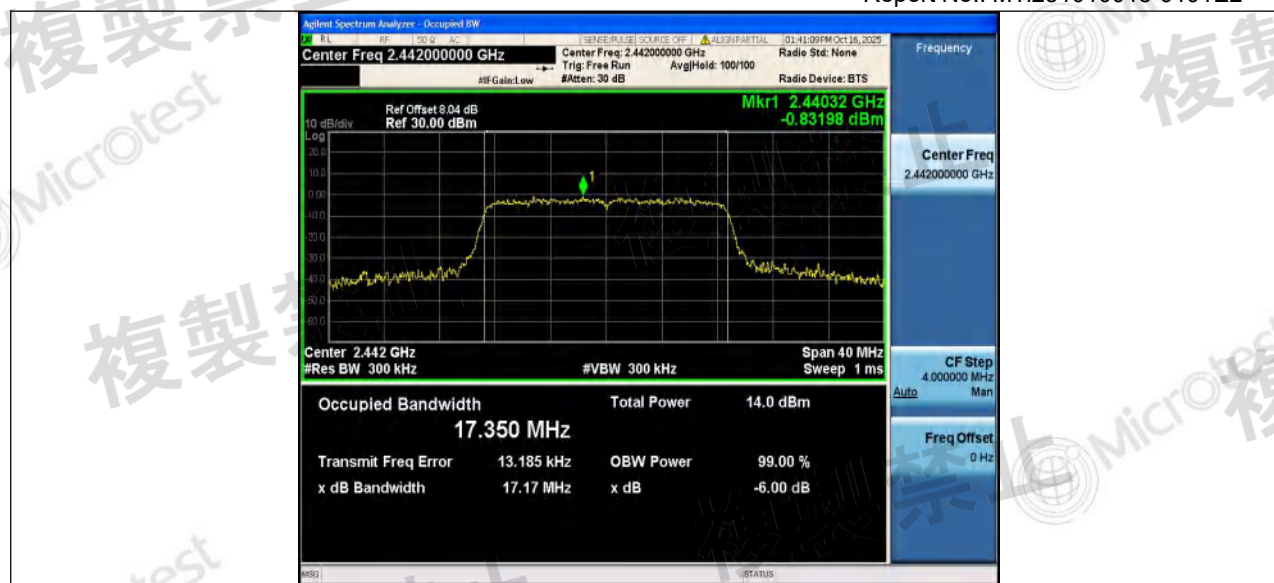
NTNV_11N20SISO_Ant1_2412



NTNV_11N20SISO_Ant1_2442

TEST REPORT

Report No.: MTi251010018-0101E2



TEST REPORT

Report No.: MTi251010018-0101E2



TEST REPORT

Report No.: MTi251010018-0101E2

Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Verdict
NTNV	11B	Ant1	2412	8.764	PASS
			2442	8.837	PASS
			2472	8.913	PASS
	11G	Ant1	2412	14.517	PASS
			2442	14.490	PASS
			2472	14.518	PASS
	11N20SISO	Ant1	2412	14.999	PASS
			2442	15.183	PASS
			2472	15.139	PASS
	11N40SISO	Ant1	2422	30.480	PASS
			2442	30.460	PASS
			2462	30.409	PASS

TEST REPORT

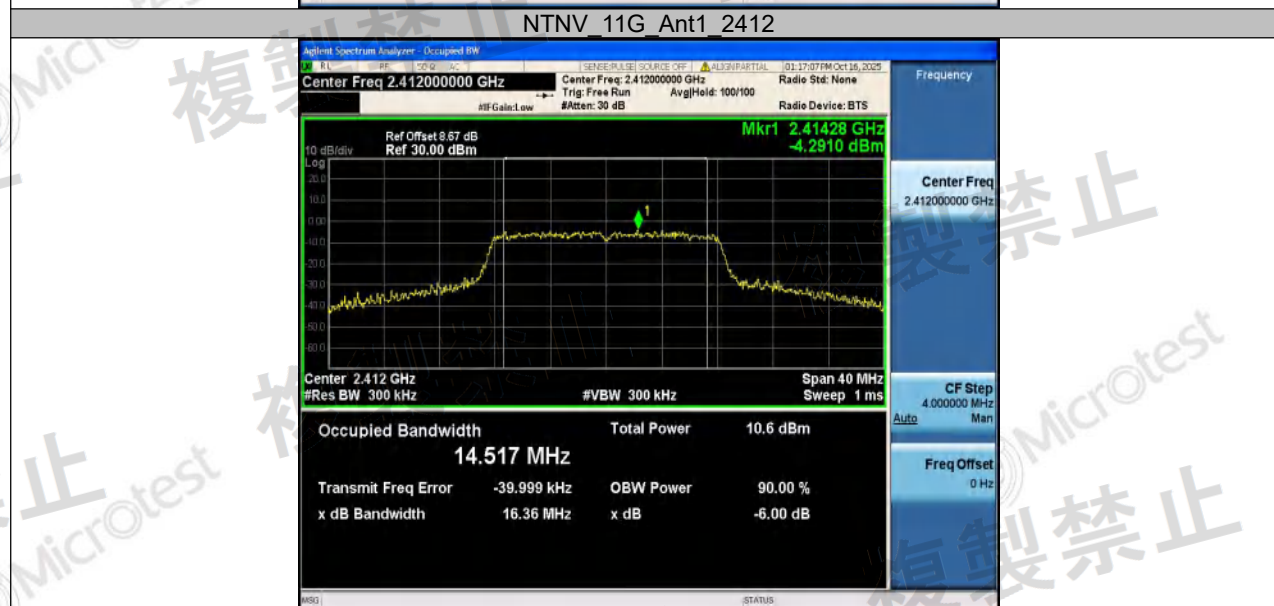
Report No.: MTi251010018-0101E2

Test Graphs



TEST REPORT

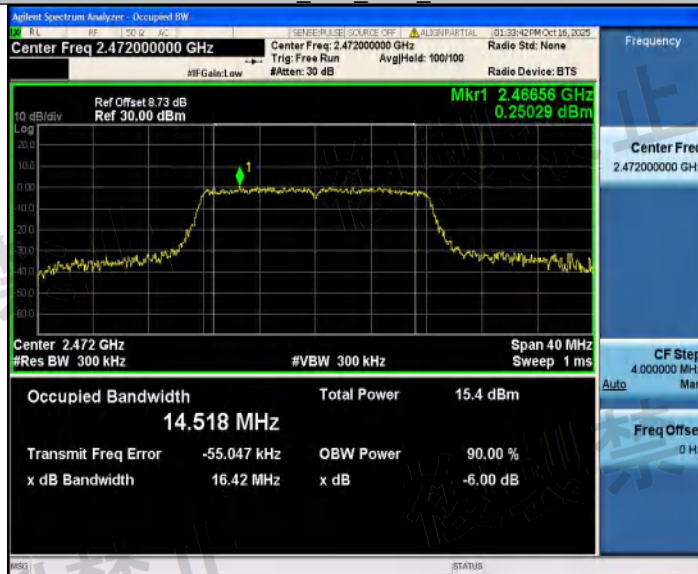
Report No.: MTi251010018-0101E2



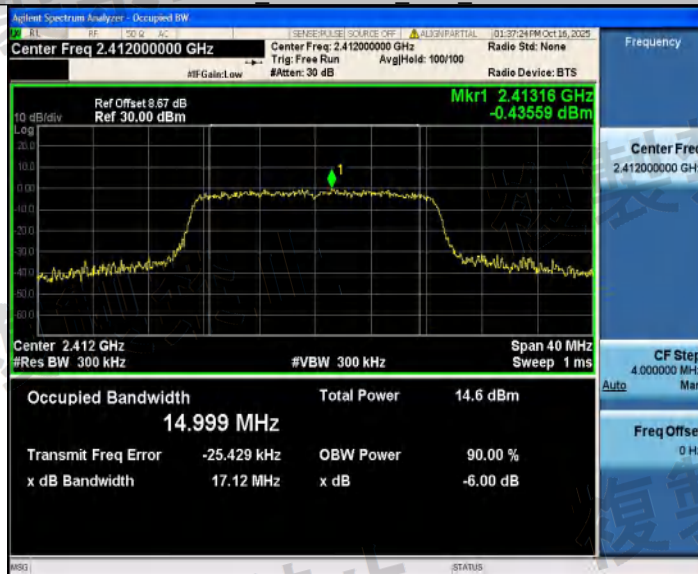
TEST REPORT

Report No.: MTi251010018-0101E2

NTNV_11G_Ant1_2472



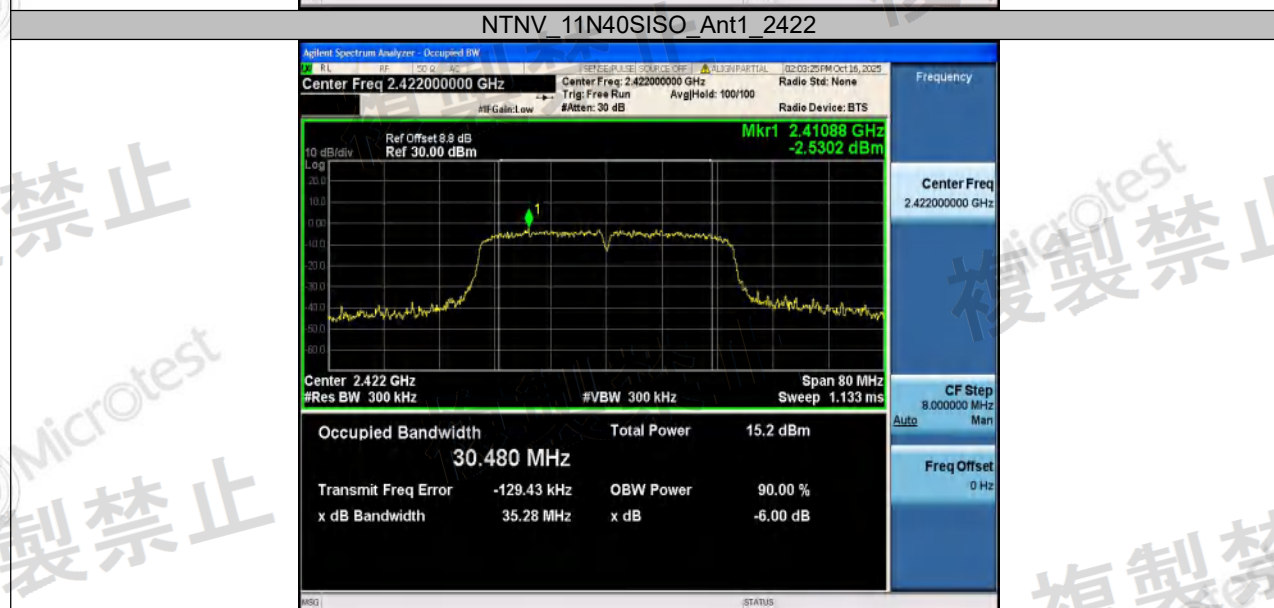
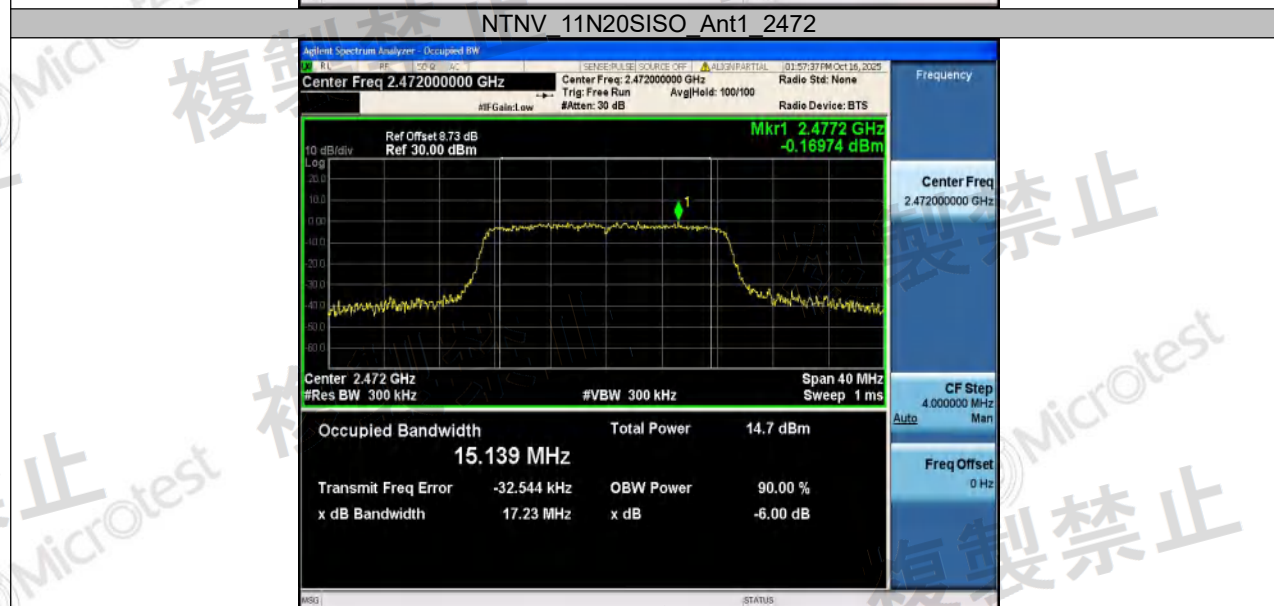
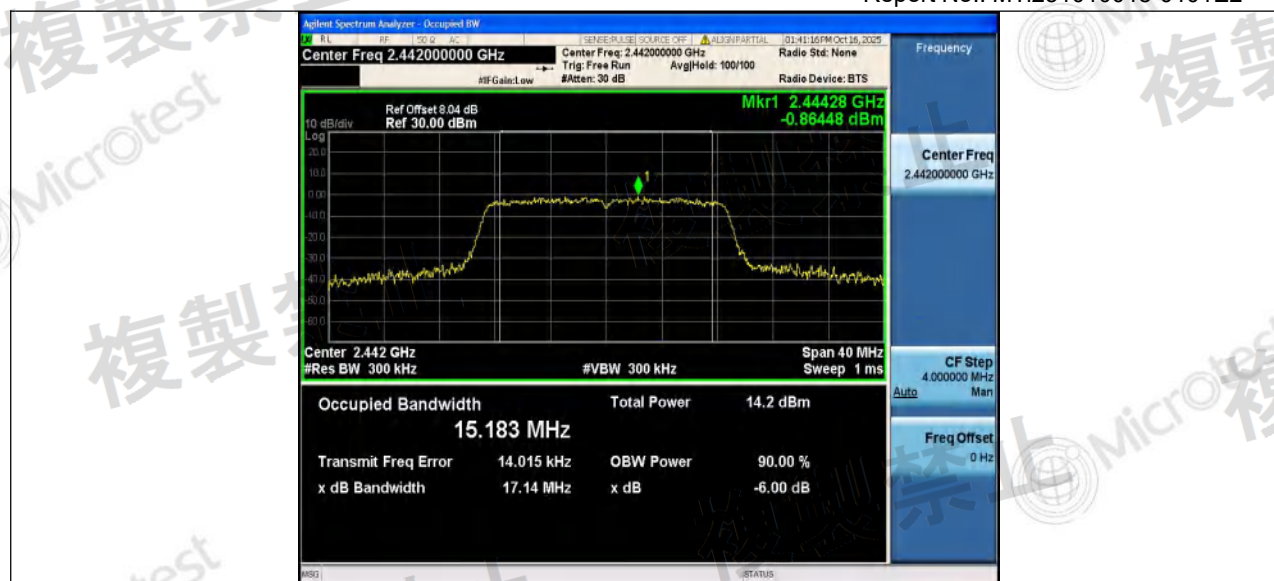
NTNV_11N20SISO_Ant1_2412



NTNV_11N20SISO_Ant1_2442

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TEST REPORT

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TEST REPORT

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Appendix E: Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-51.45	≤-26	0.00716	≤2.5	PASS
				1000~2387	-46.53	≤-26	0.02223	≤2.5	PASS
				2387~2400	-32.34	≤-16	0.58345	≤25	PASS
				2483.5~2496.5	-40.72	≤-16	0.08472	≤25	PASS
				2496.5~13000	-30.10	≤-26	0.97724	≤2.5	PASS
			2442	30~1000	-52.17	≤-26	0.00607	≤2.5	PASS
				1000~2387	-51.64	≤-26	0.00685	≤2.5	PASS
				2387~2400	-41.74	≤-16	0.06699	≤25	PASS
				2483.5~2496.5	-41.56	≤-16	0.06982	≤25	PASS
				2496.5~13000	-48.87	≤-26	0.01297	≤2.5	PASS
			2472	30~1000	-51.55	≤-26	0.00700	≤2.5	PASS
				1000~2387	-50.97	≤-26	0.00800	≤2.5	PASS
				2387~2400	-37.01	≤-16	0.19907	≤25	PASS
				2483.5~2496.5	-27.53	≤-16	1.76604	≤25	PASS
				2496.5~13000	-35.82	≤-26	0.26182	≤2.5	PASS
	11G	Ant1	2412	30~1000	-51.64	≤-26	0.00685	≤2.5	PASS
				1000~2387	-45.86	≤-26	0.02594	≤2.5	PASS
				2387~2400	-19.13	≤-16	12.21800	≤25	PASS
				2483.5~2496.5	-40.16	≤-16	0.09638	≤25	PASS
				2496.5~13000	-33.34	≤-26	0.46345	≤2.5	PASS
			2442	30~1000	-52.33	≤-26	0.00585	≤2.5	PASS
				1000~2387	-49.91	≤-26	0.01021	≤2.5	PASS
				2387~2400	-40.53	≤-16	0.08851	≤25	PASS
				2483.5~2496.5	-39.19	≤-16	0.12050	≤25	PASS
				2496.5~13000	-35.68	≤-26	0.27040	≤2.5	PASS
			2472	30~1000	-51.23	≤-26	0.00753	≤2.5	PASS
				1000~2387	-49.39	≤-26	0.01151	≤2.5	PASS
				2387~2400	-40.56	≤-16	0.08790	≤25	PASS

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	11N20SIS O	Ant1	2412	2483.5~2496.5	- 18.52	≤-16	14.06048	≤25	PASS
				2496.5~13000	- 35.09	≤-26	0.30974	≤2.5	PASS
				30~1000	- 51.77	≤-26	0.00665	≤2.5	PASS
				1000~2387	- 37.65	≤-26	0.17179	≤2.5	PASS
				2387~2400	- 23.63	≤-16	4.33511	≤25	PASS
				2483.5~2496.5	- 40.44	≤-16	0.09036	≤25	PASS
				2496.5~13000	- 35.58	≤-26	0.27669	≤2.5	PASS
			2442	30~1000	- 52.40	≤-26	0.00575	≤2.5	PASS
				1000~2387	- 50.04	≤-26	0.00991	≤2.5	PASS
				2387~2400	- 41.33	≤-16	0.07362	≤25	PASS
				2483.5~2496.5	- 40.30	≤-16	0.09333	≤25	PASS
				2496.5~13000	- 37.77	≤-26	0.16711	≤2.5	PASS
				30~1000	- 51.34	≤-26	0.00735	≤2.5	PASS
	11N40SIS O	Ant1	2472	1000~2387	- 50.16	≤-26	0.00964	≤2.5	PASS
				2387~2400	- 40.63	≤-16	0.08650	≤25	PASS
				2483.5~2496.5	- 22.06	≤-16	6.22300	≤25	PASS
				2496.5~13000	- 37.43	≤-26	0.18072	≤2.5	PASS
			2422	30~1000	- 41.44	≤-26	0.07178	≤2.5	PASS
				1000~2387	- 31.74	≤-26	0.66988	≤2.5	PASS
				2387~2400	- 26.55	≤-16	2.21309	≤25	PASS
				2483.5~2496.5	- 38.74	≤-16	0.13366	≤25	PASS
				2496.5~13000	- 39.57	≤-26	0.11041	≤2.5	PASS
			2442	30~1000	- 42.01	≤-26	0.06295	≤2.5	PASS
				1000~2387	- 44.59	≤-26	0.03475	≤2.5	PASS
				2387~2400	- 36.03	≤-16	0.24946	≤25	PASS
				2483.5~2496.5	- 34.74	≤-16	0.33574	≤25	PASS
				2496.5~13000	- 39.84	≤-26	0.10375	≤2.5	PASS
			2462	30~1000	- 42.15	≤-26	0.06095	≤2.5	PASS
				1000~2387	- 48.43	≤-26	0.01435	≤2.5	PASS
				2387~2400	- 40.70	≤-16	0.08511	≤25	PASS
				2483.5~2496.5	- 25.72	≤-16	2.67917	≤25	PASS
				2496.5~13000	- 34.07	≤-26	0.39174	≤2.5	PASS

TEST REPORT

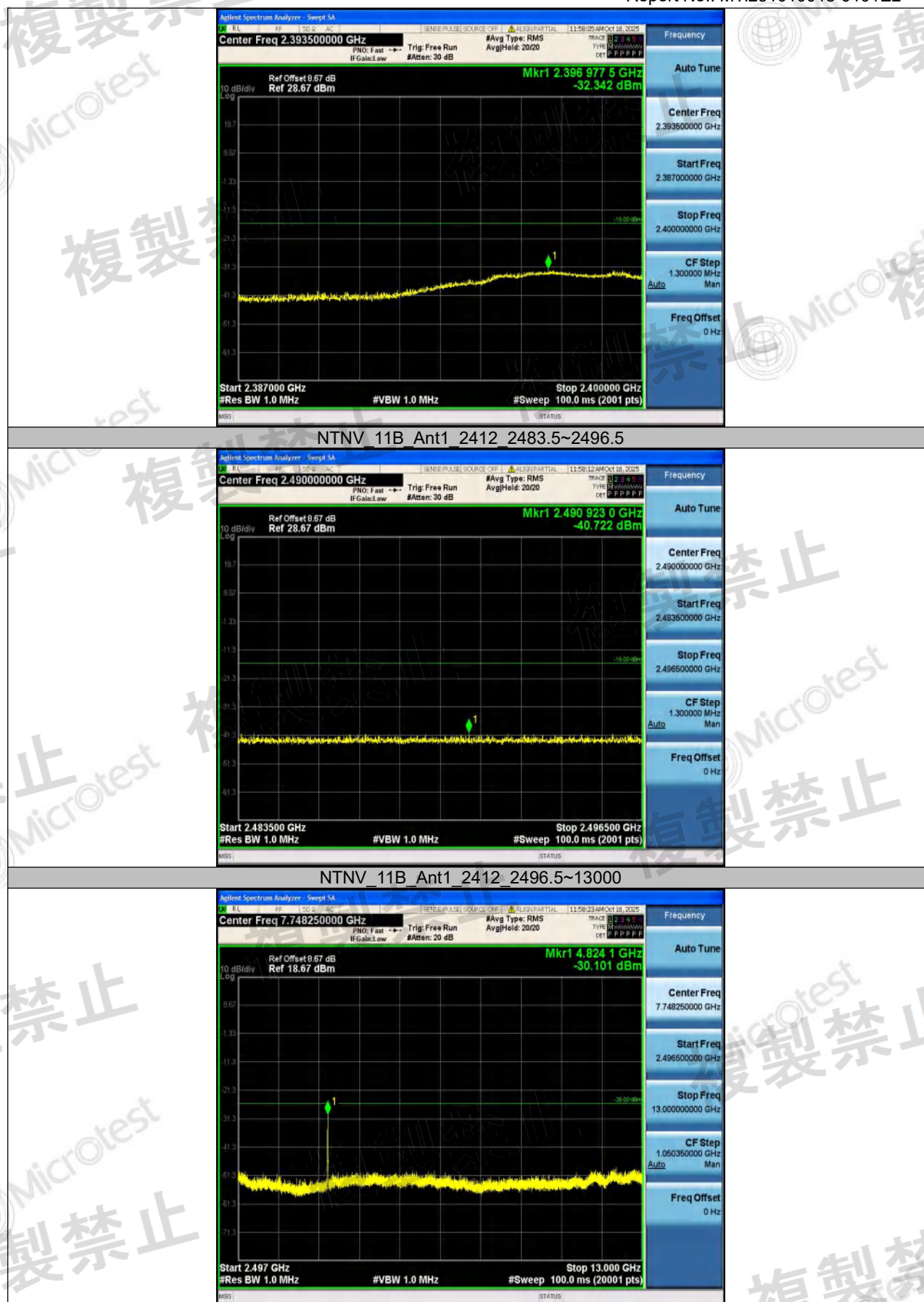
Report No.: MTi251010018-0101E2

Test Graphs



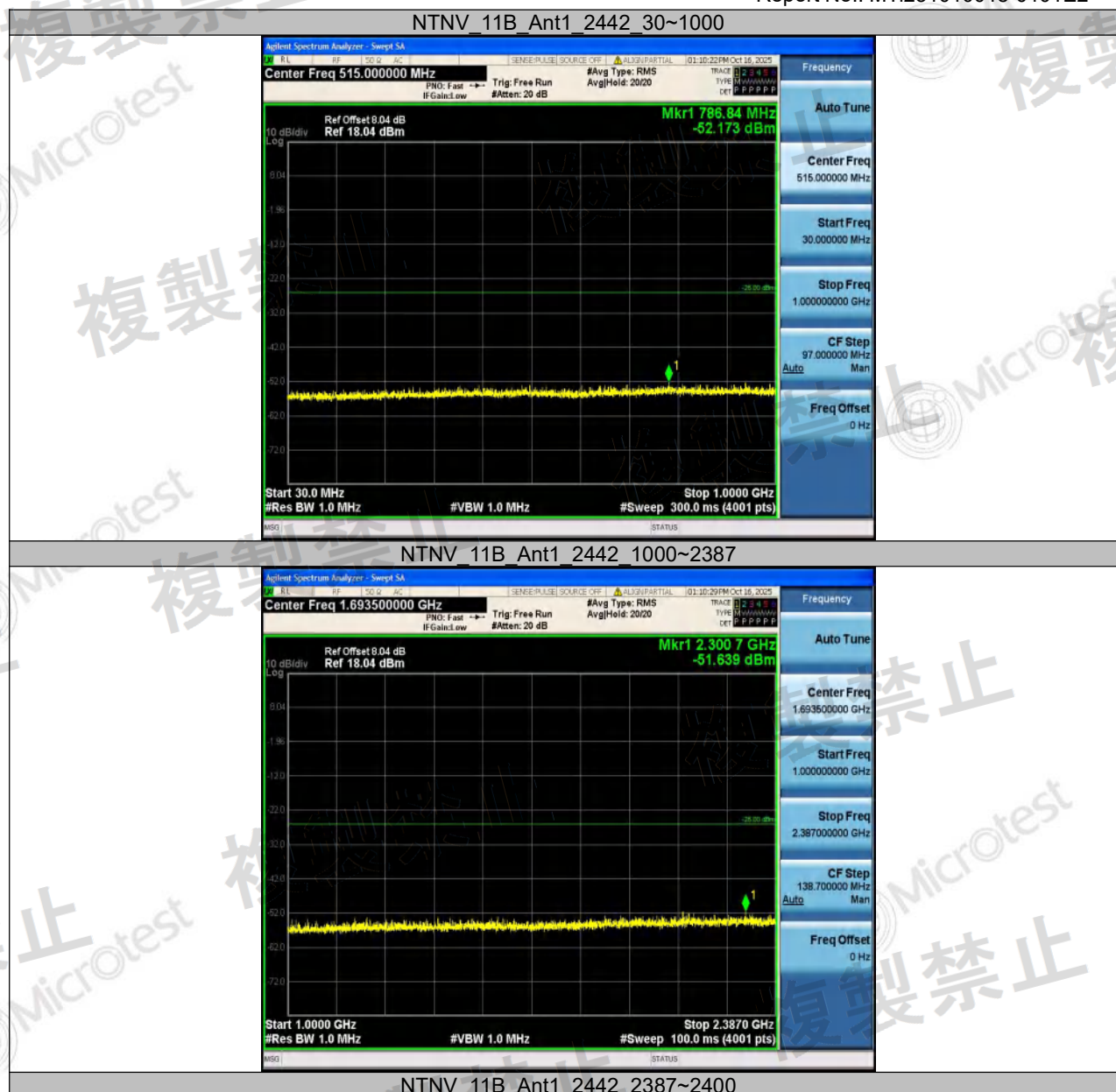
TEST REPORT

Report No.: MTi251010018-0101E2



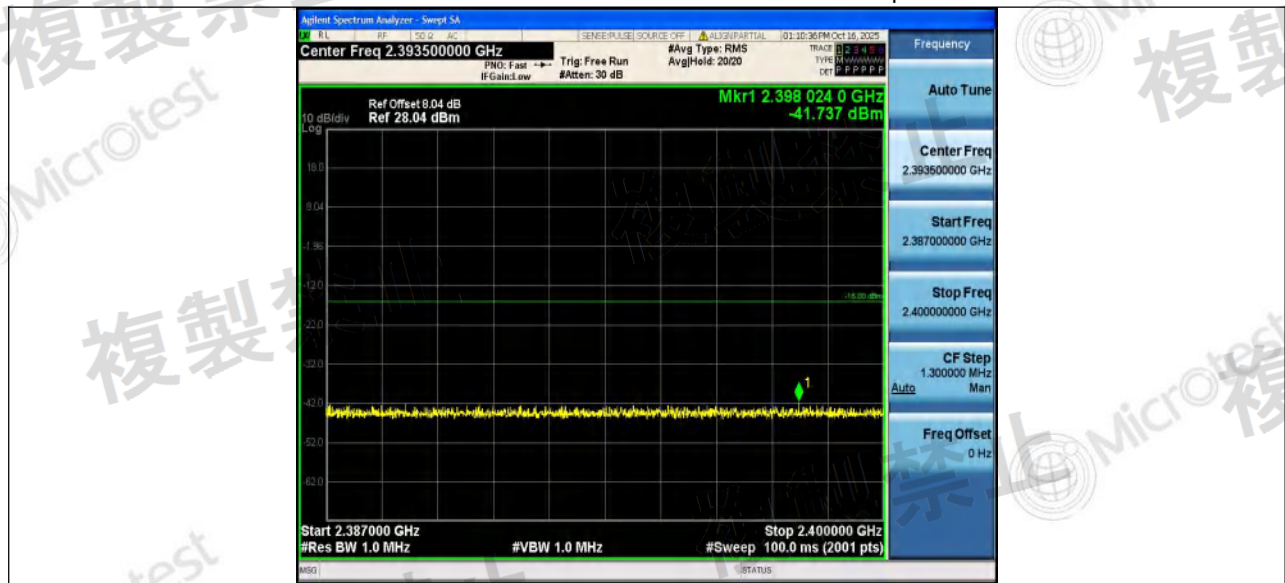
TEST REPORT

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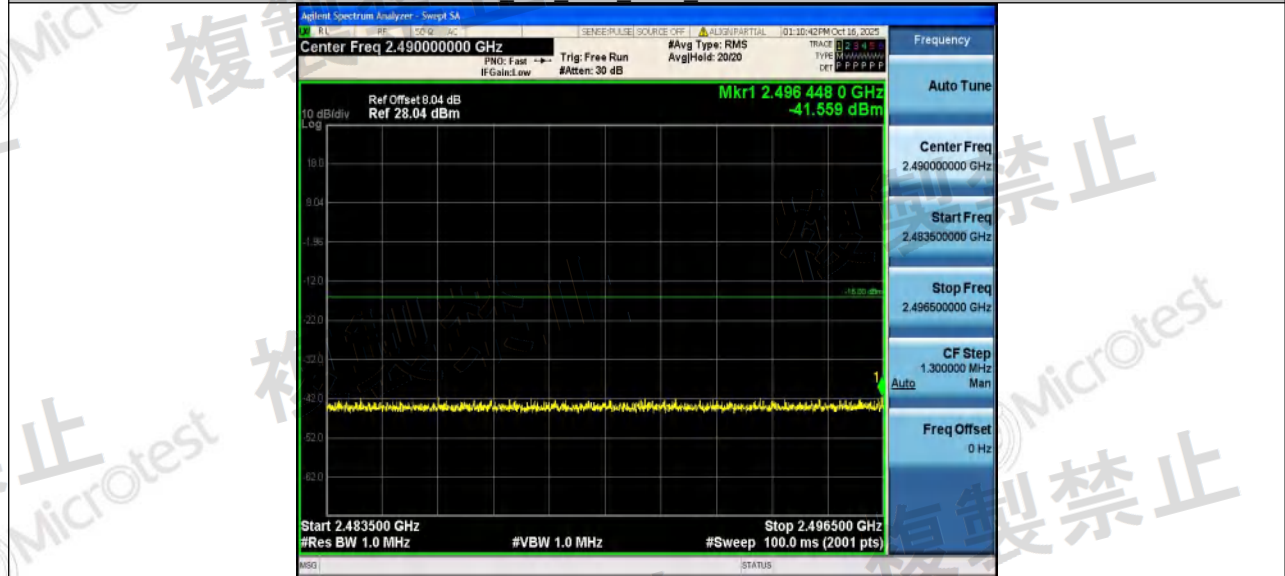


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NTNV_11B_Ant1_2442_2483.5~2496.5

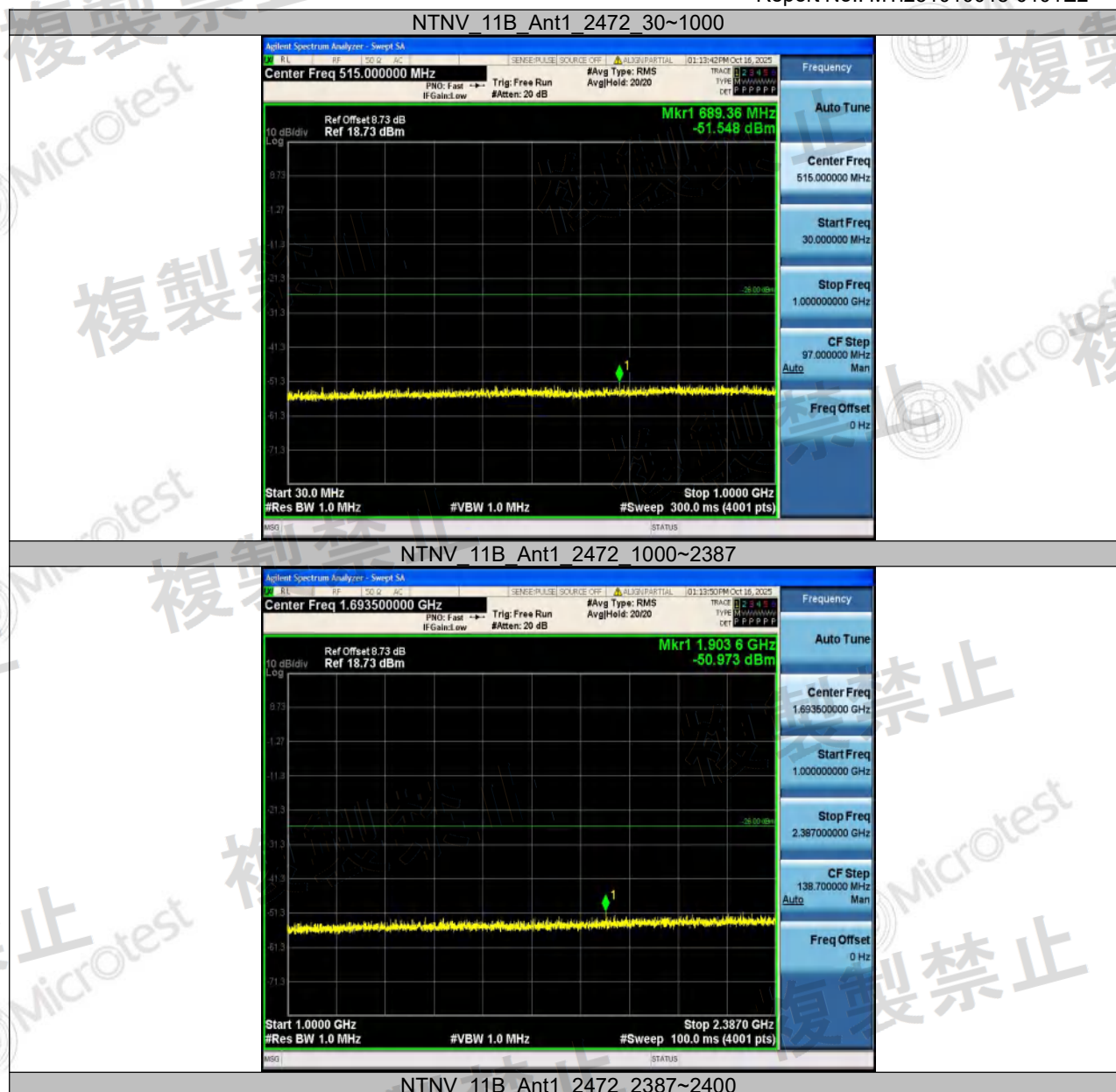


NTNV_11B_Ant1_2442_2496.5~13000



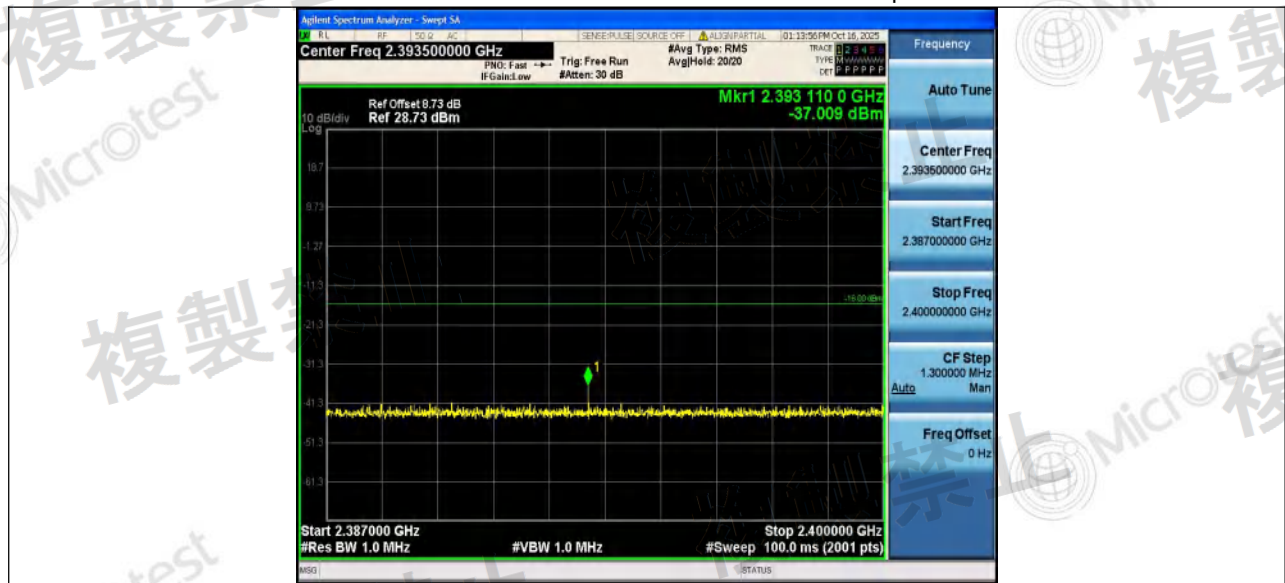
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NTNV_11B_Ant1_2472_2483.5~2496.5

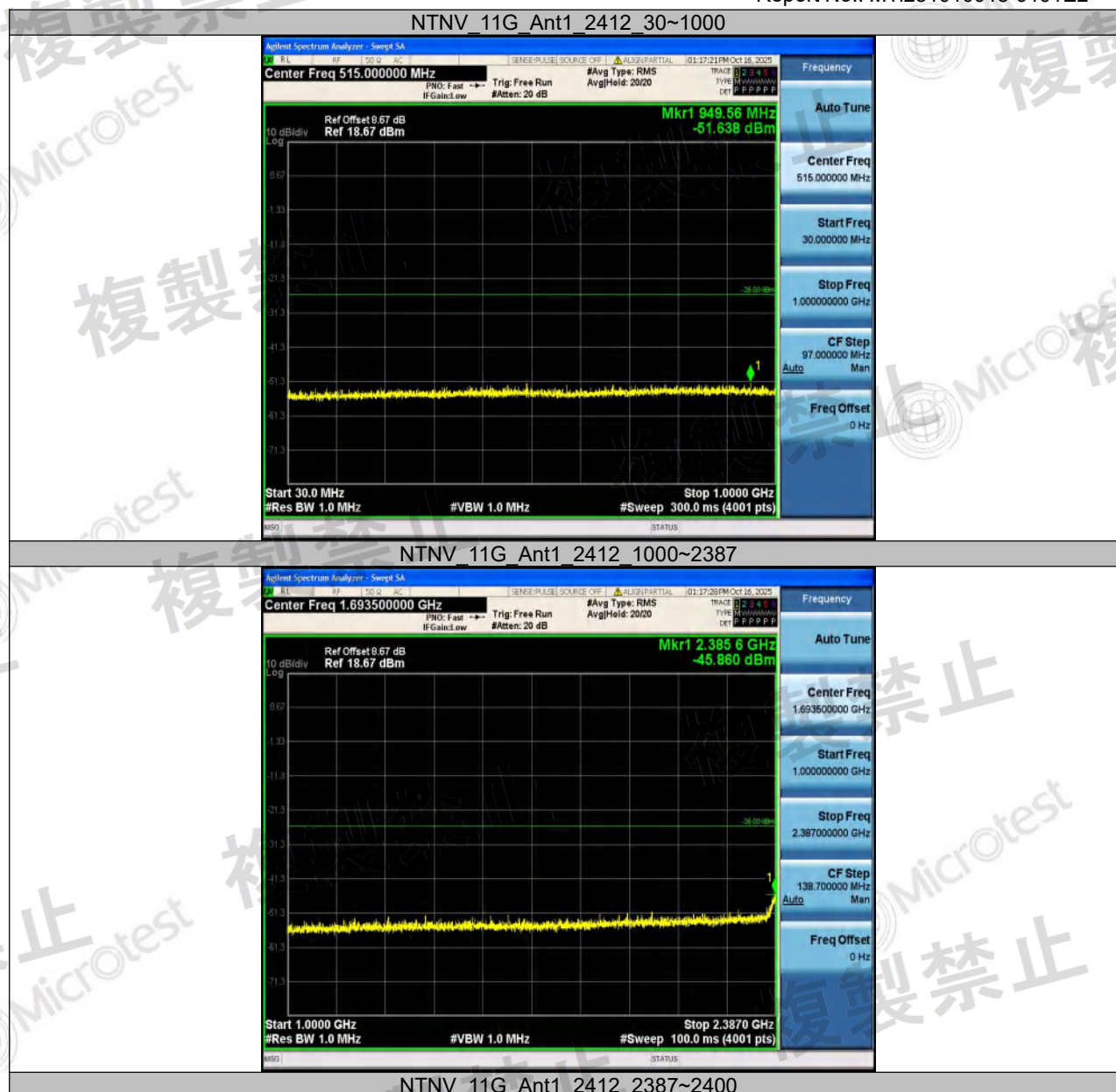


NTNV_11B_Ant1_2472_2496.5~13000



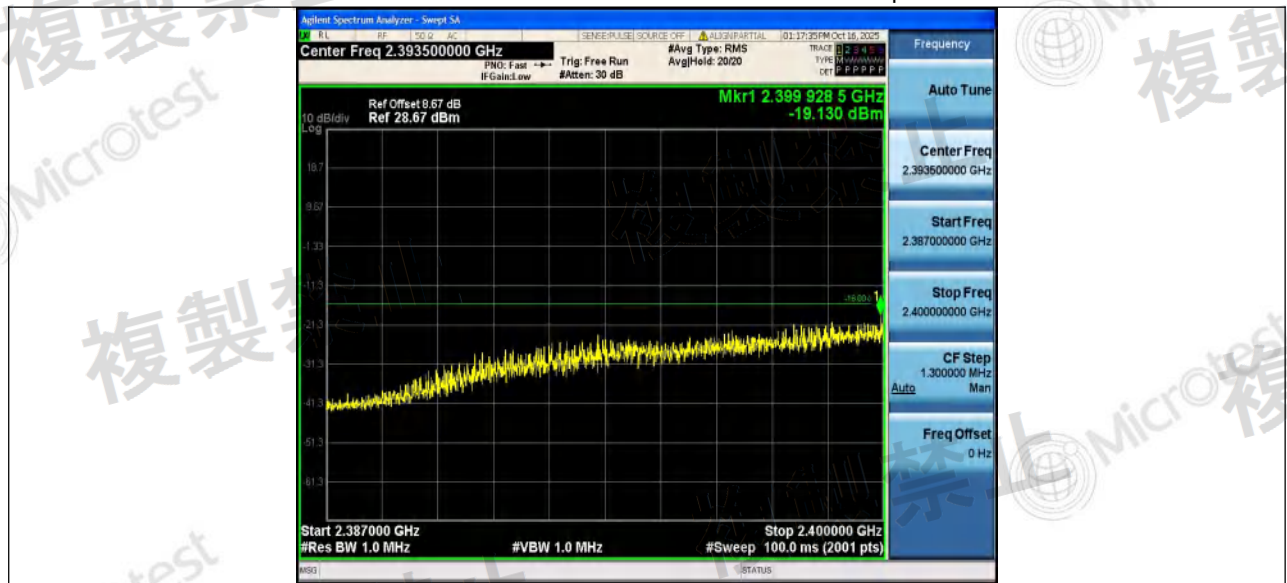
TEST REPORT

Report No.: MTi251010018-0101E2

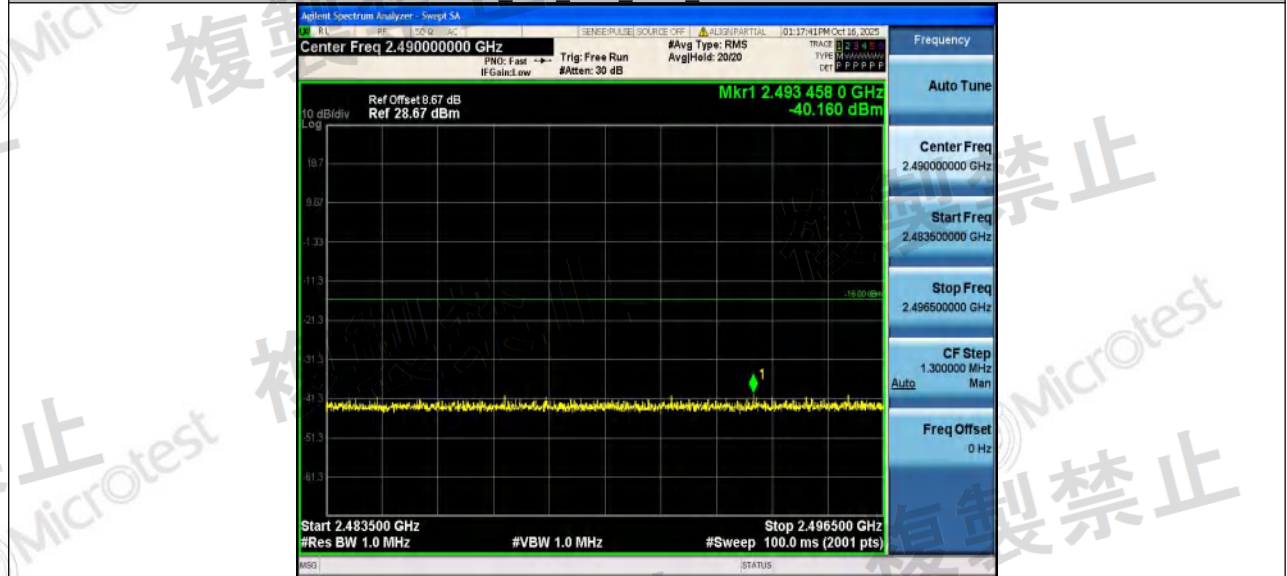


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NTNV_11G_Ant1_2412_2483.5~2496.5

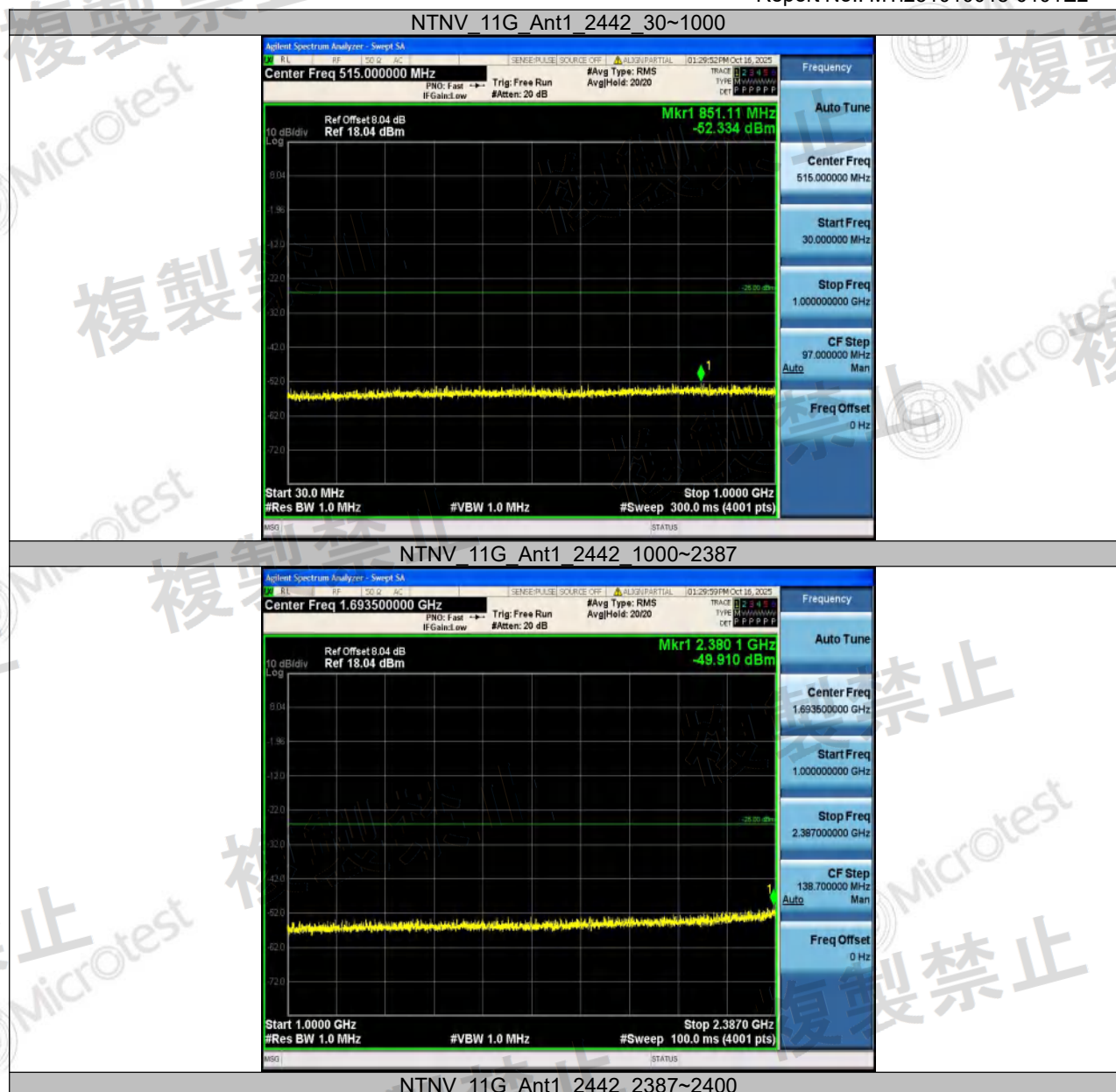


NTNV_11G_Ant1_2412_2496.5~13000



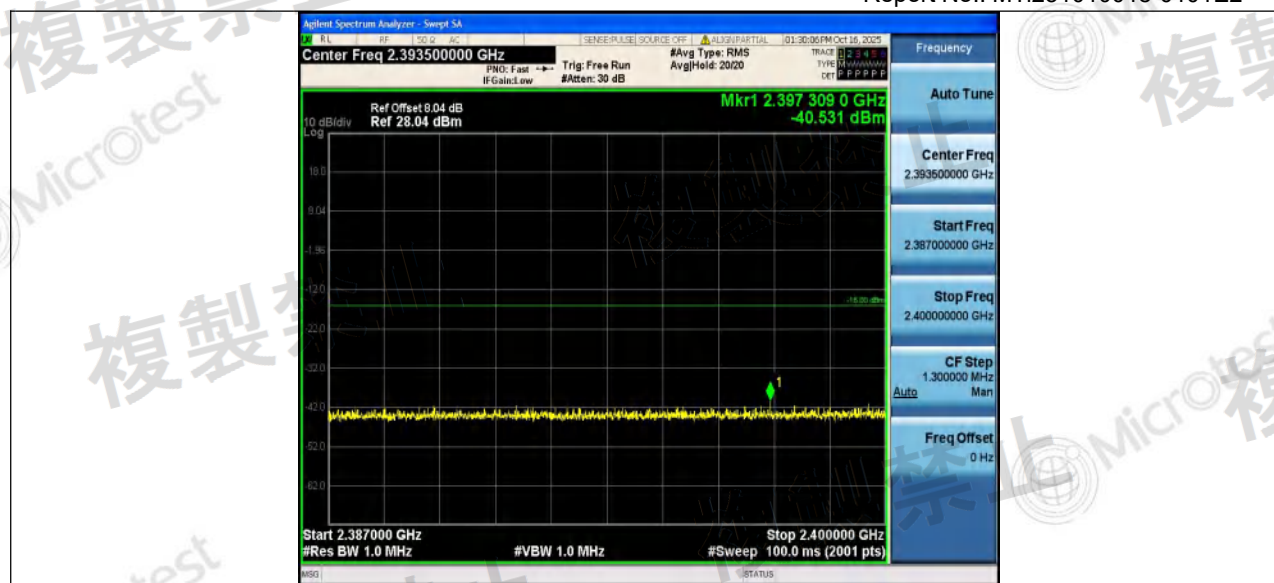
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NTNV_11G_Ant1_2442_2483.5~2496.5

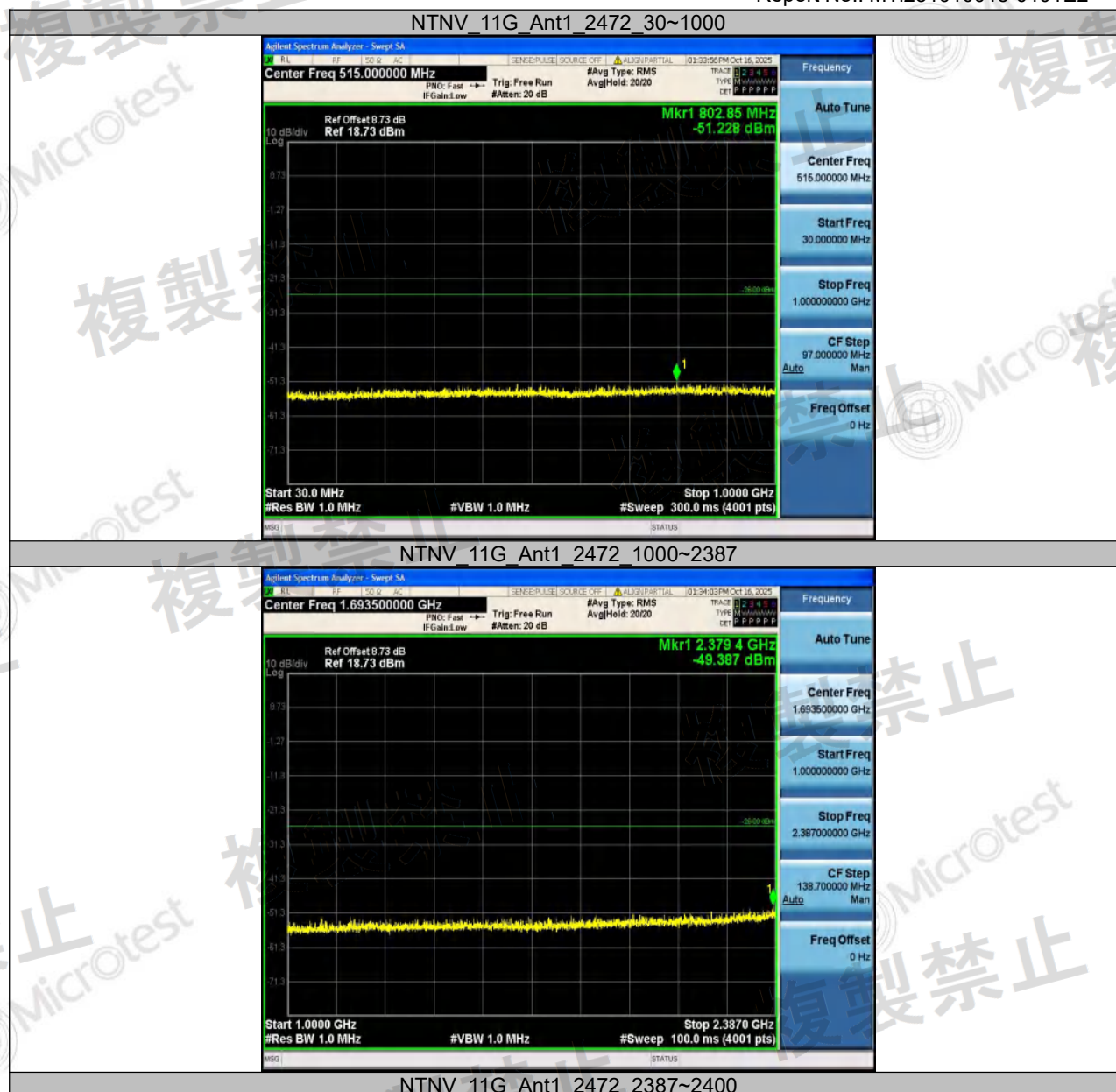


NTNV_11G_Ant1_2442_2496.5~13000



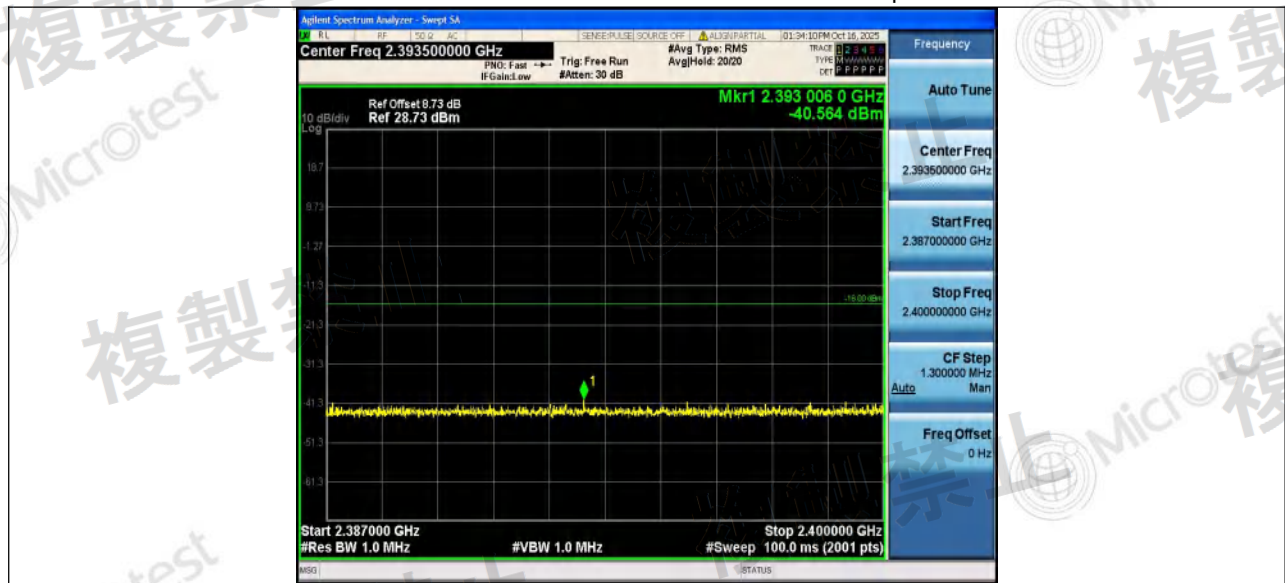
TEST REPORT

Report No.: MTi251010018-0101E2



TEST REPORT

Report No.: MTi251010018-0101E2



NTNV_11G_Ant1_2472_2483.5~2496.5



NTNV_11G_Ant1_2472_2496.5~13000



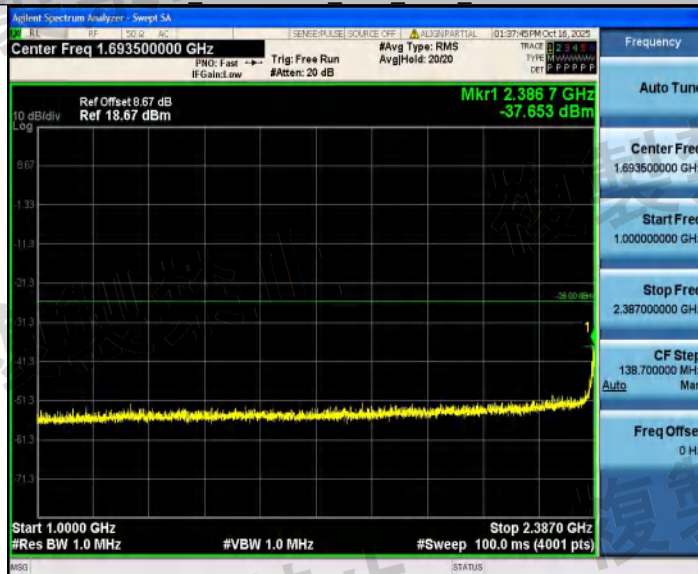
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NTNV 11N20SISO Ant1 2412 30~1000



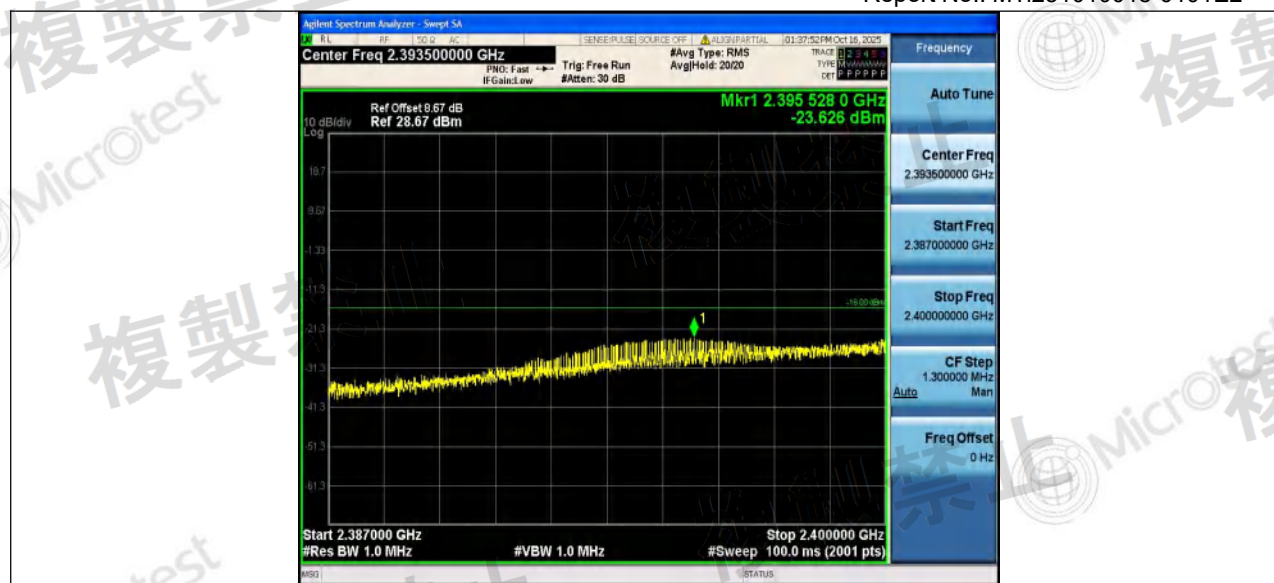
NTNV 11N20SISO Ant1 2412 1000~2387



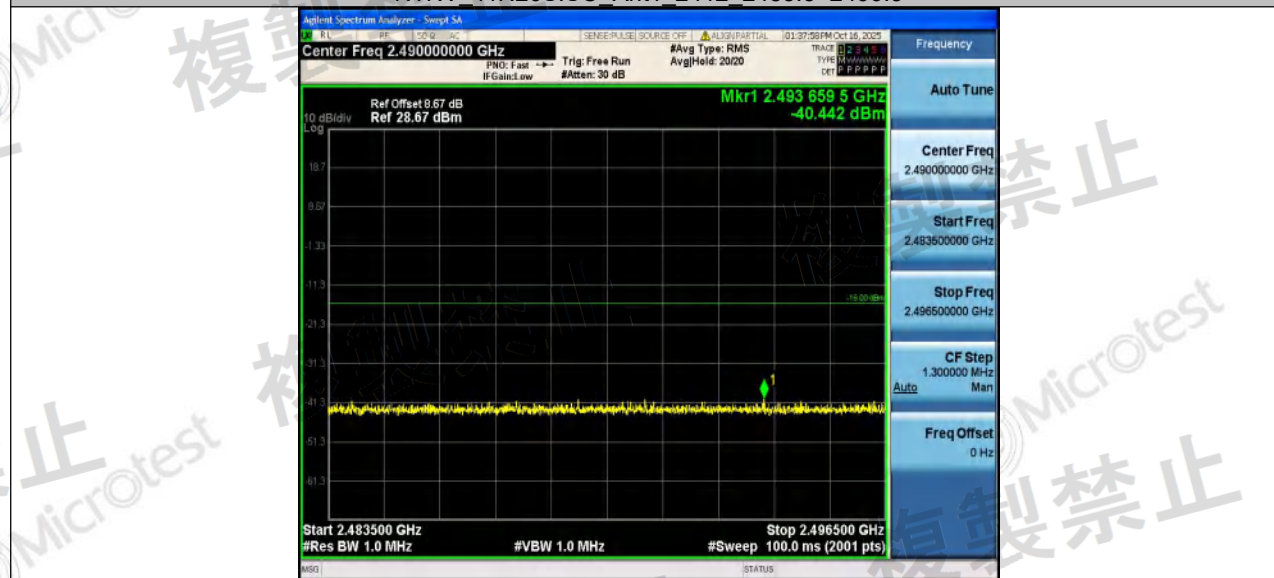
NTNV 11N20SISO Ant1 2412 2387~2400

TEST REPORT

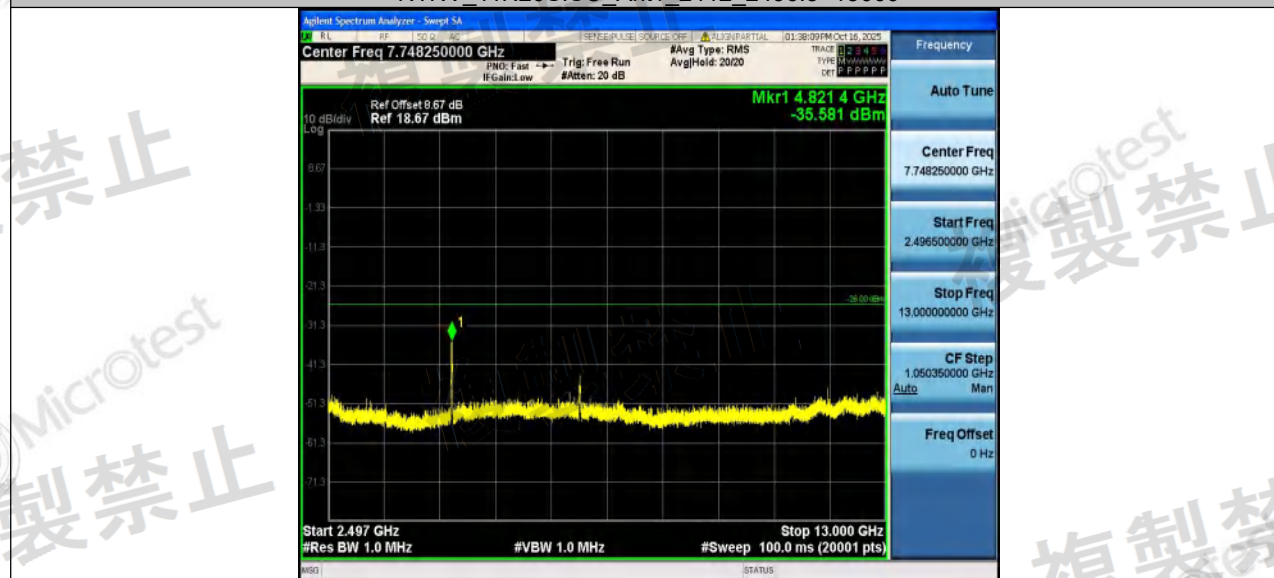
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NTNV_11N20SISO_Ant1_2412_2483.5~2496.5



NTNV_11N20SISO_Ant1_2412_2496.5~13000



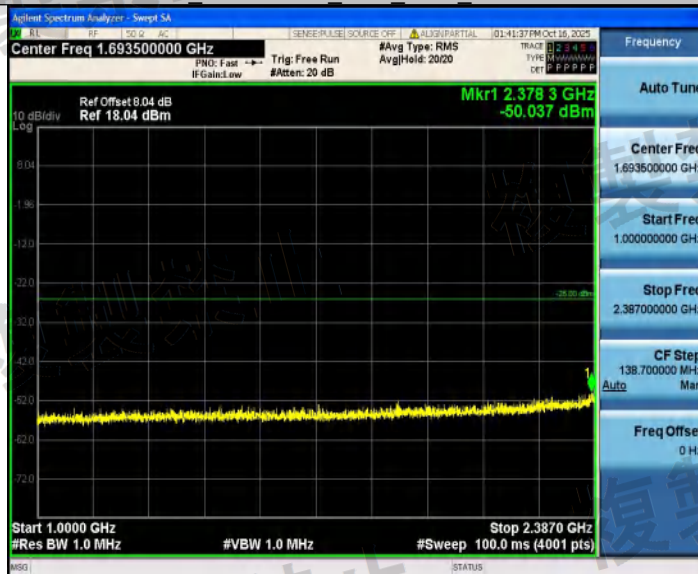
TEST REPORT

Report No.: MTi251010018-0101E2

NTNV 11N20SISO Ant1 2442 30~1000



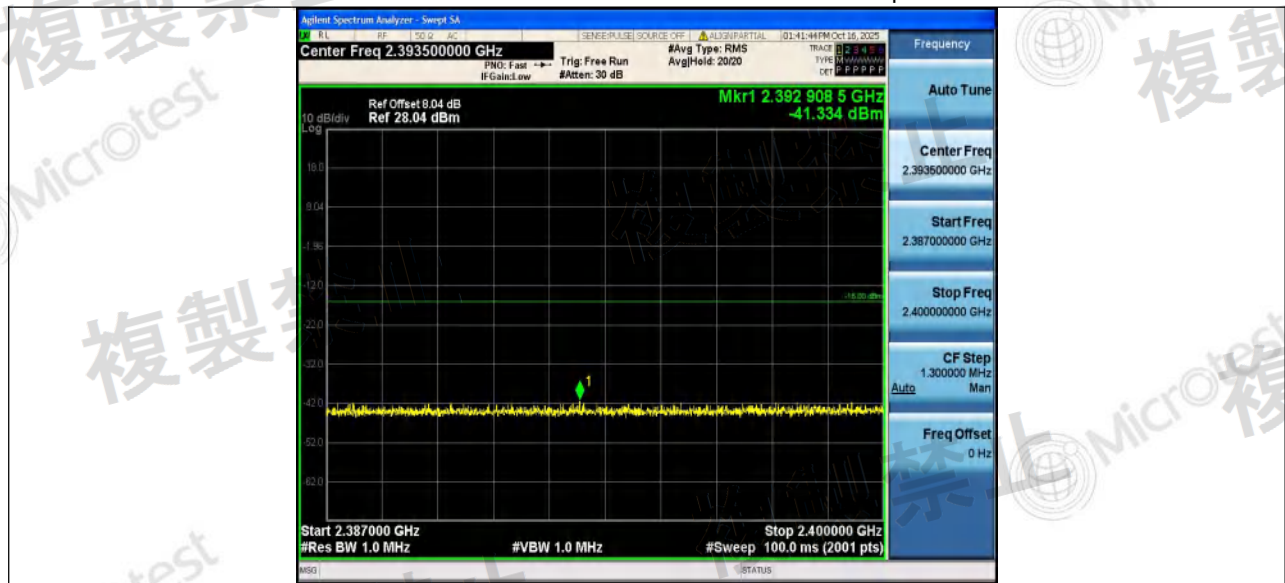
NTNV 11N20SISO Ant1 2442 1000~2387



NTNV 11N20SISO Ant1 2442 2387~2400

TEST REPORT

Report No.: MTi251010018-0101E2



NTNV_11N20SISO_Ant1_2442_2483.5~2496.5



NTNV_11N20SISO_Ant1_2442_2496.5~13000



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Report No.: MTi251010018-0101E2

NTNV 11N20SISO Ant1 2472 30~1000



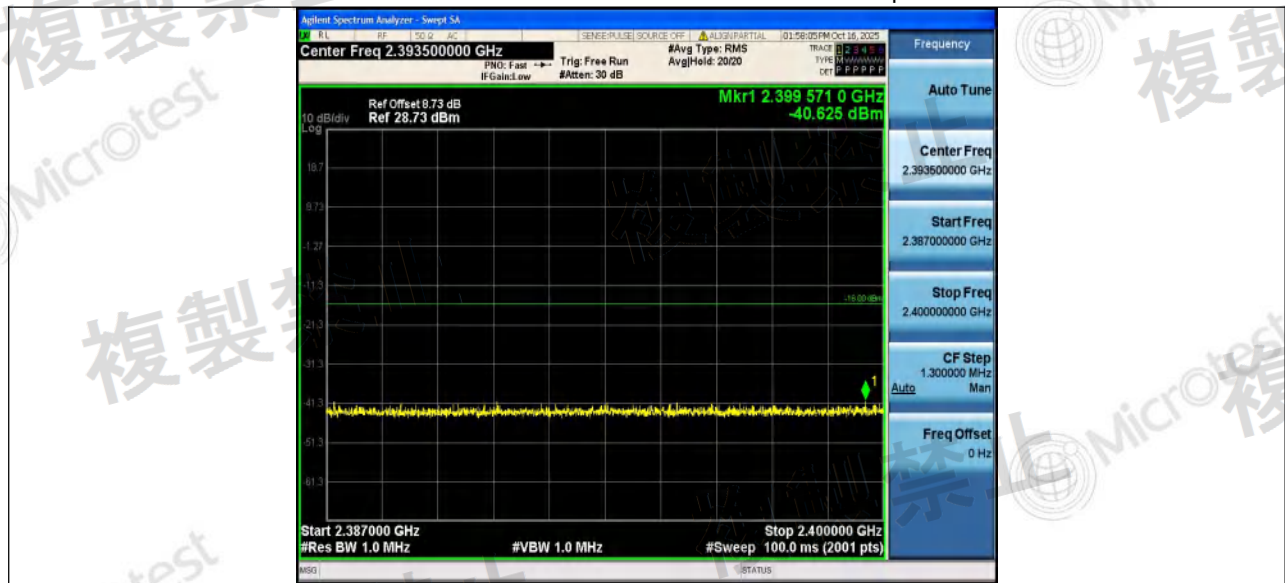
NTNV 11N20SISO Ant1 2472 1000~2387



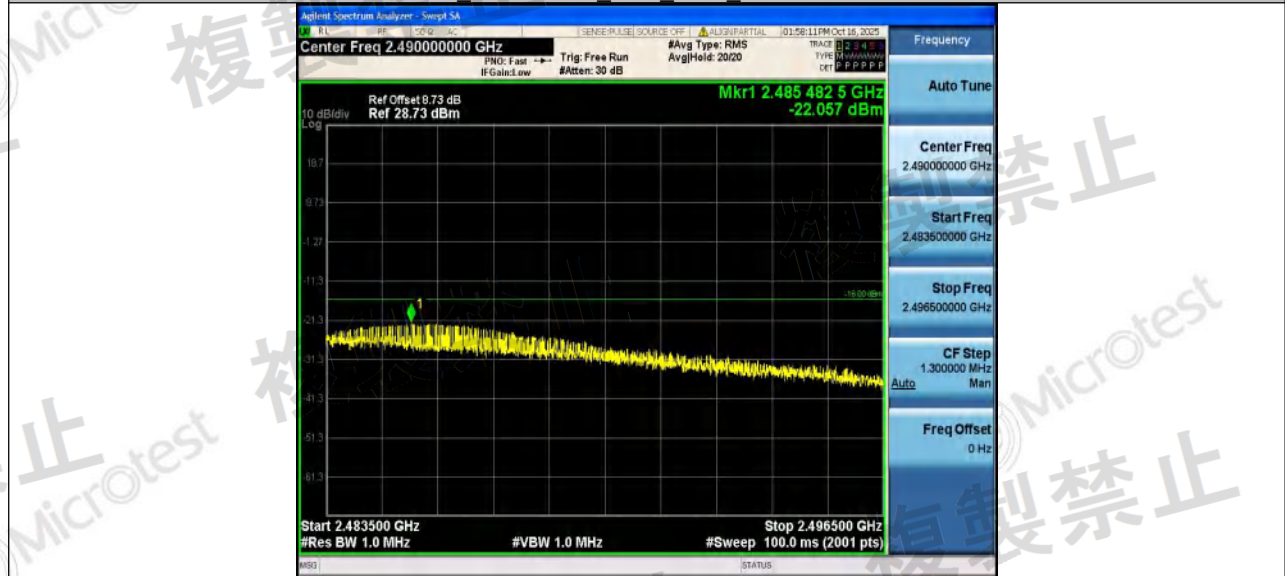
NTNV 11N20SISO Ant1 2472 2387~2400

TEST REPORT

Report No.: MTi251010018-0101E2



NTNV_11N20SISO_Ant1_2472_2483.5~2496.5



NTNV_11N20SISO_Ant1_2472_2496.5~13000



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Report No.: MTi251010018-0101E2

NTNV 11N40SISO Ant1 2422 30~1000



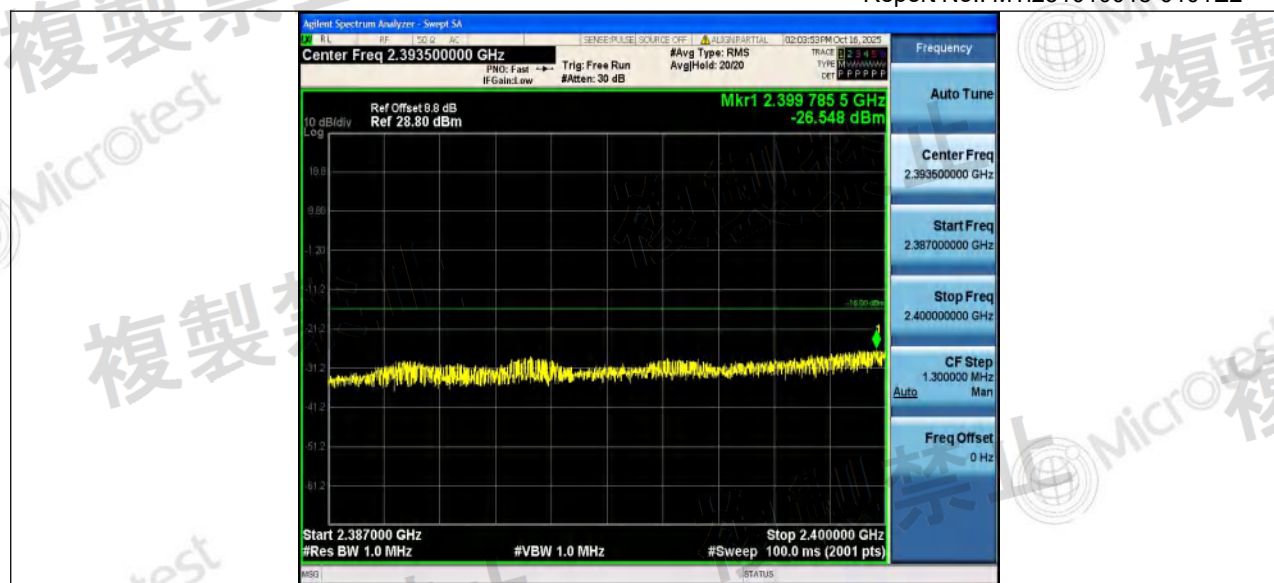
NTNV 11N40SISO Ant1 2422 1000~2387



NTNV 11N40SISO Ant1 2422 2387~2400

TEST REPORT

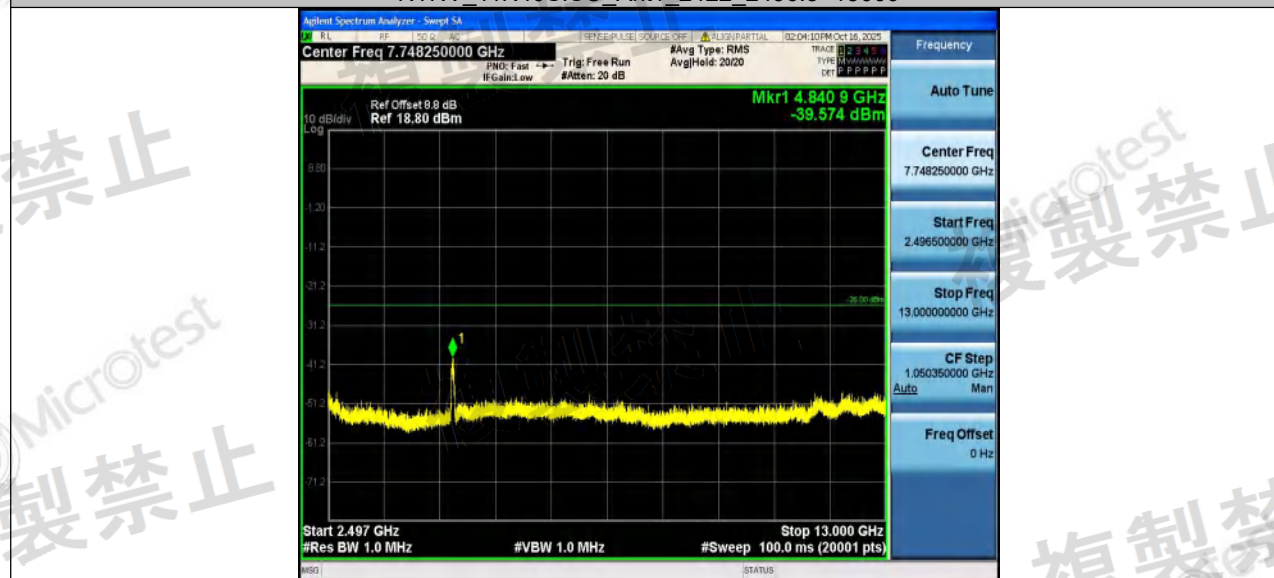
Report No.: MTi251010018-0101E2



NTNV_11N40SISO_Ant1_2422_2483.5~2496.5



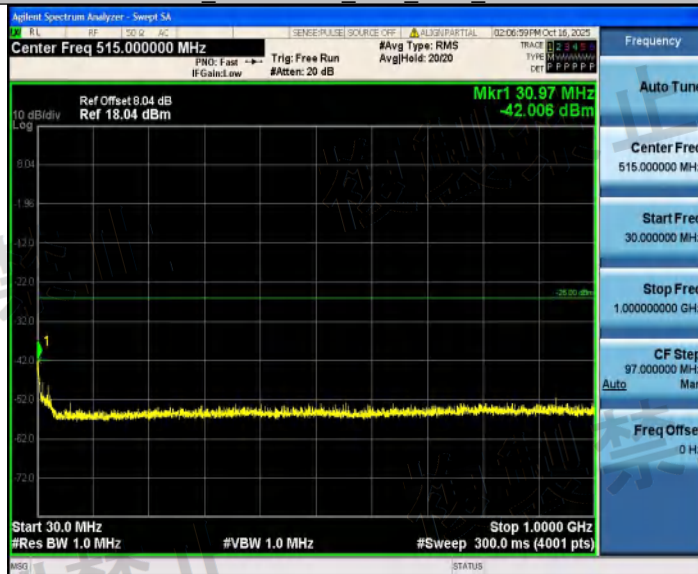
NTNV_11N40SISO_Ant1_2422_2496.5~13000



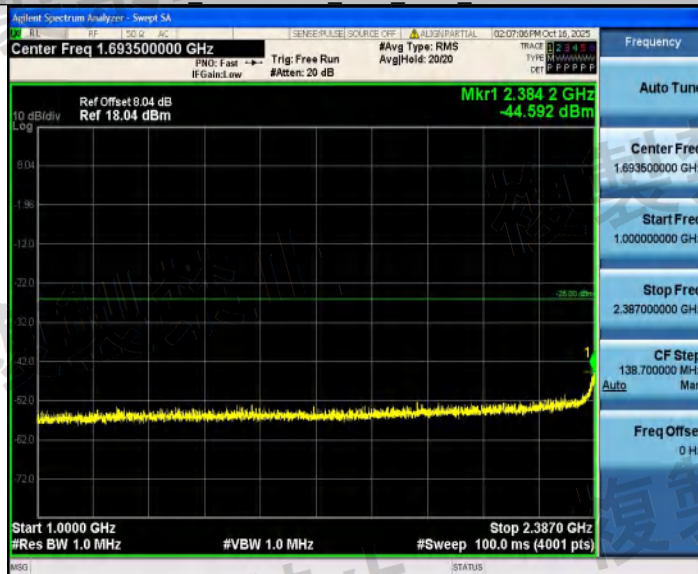
TEST REPORT

Report No.: MTi251010018-0101E2

NTNV 11N40SISO Ant1 2442 30~1000



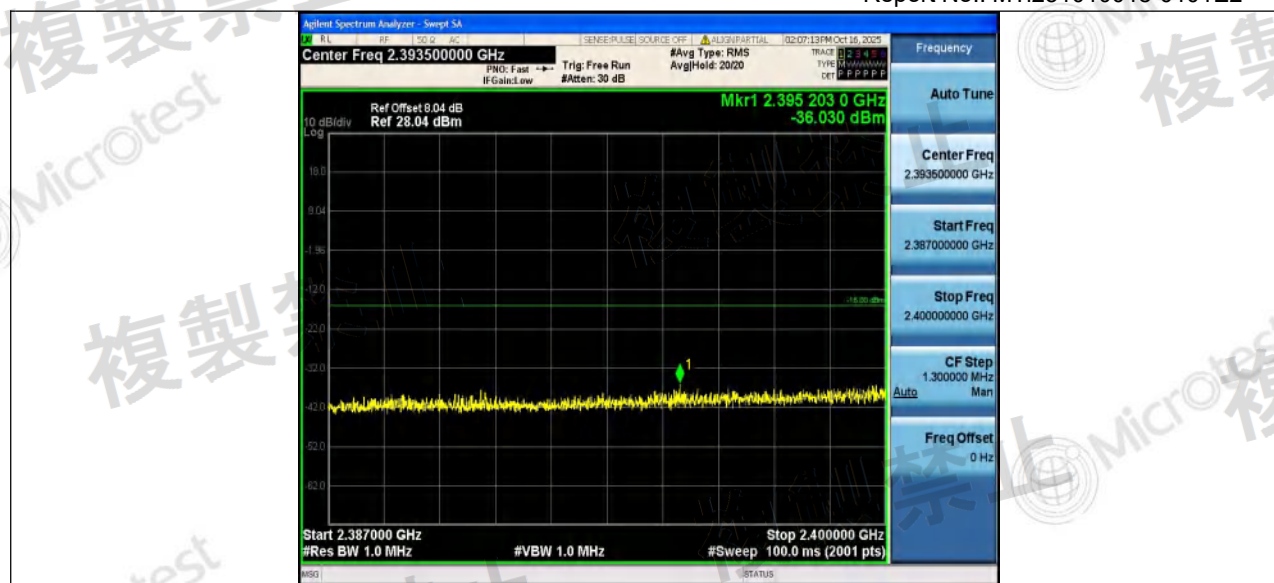
NTNV 11N40SISO Ant1 2442 1000~2387



NTNV 11N40SISO Ant1 2442 2387~2400

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Report No.: MTi251010018-0101E2



NTNV_11N40SISO_Ant1_2442_2483.5~2496.5



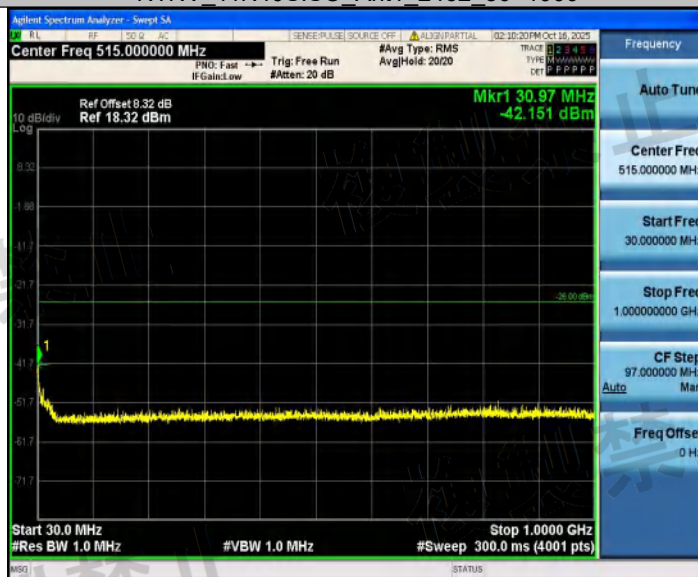
NTNV_11N40SISO_Ant1_2442_2496.5~13000



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NTNV 11N40SISO Ant1 2462 30~1000



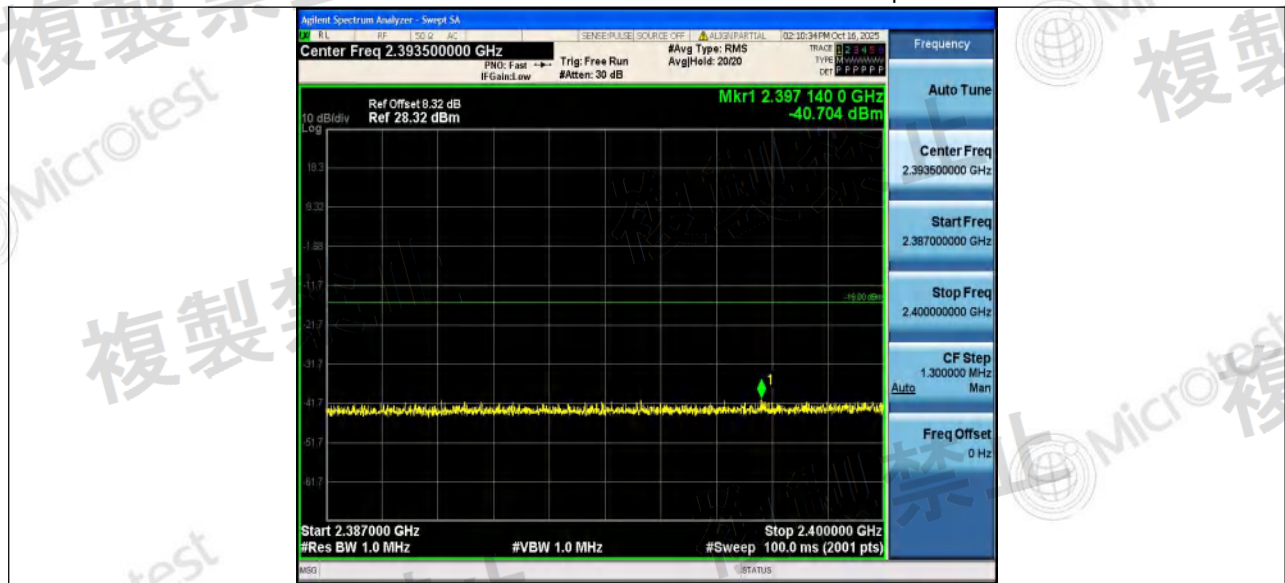
NTNV 11N40SISO Ant1 2462 1000~2387



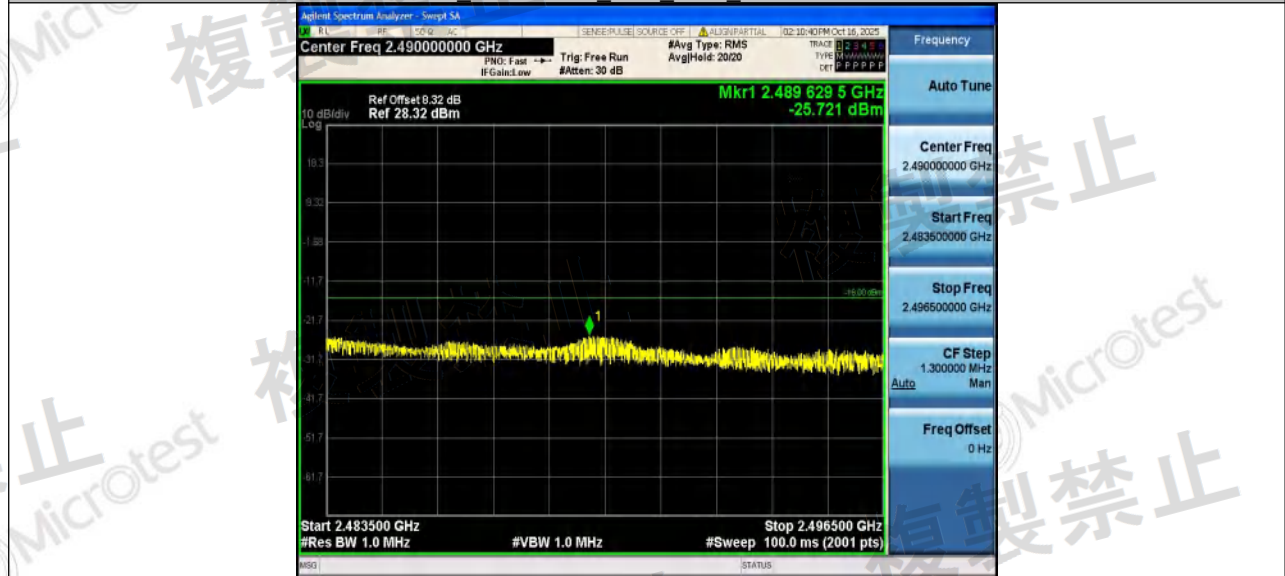
NTNV 11N40SISO Ant1 2462 2387~2400

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NTNV_11N40SISO_Ant1_2462_2483.5~2496.5



NTNV_11N40SISO_Ant1_2462_2496.5~13000



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Appendix F: Spurious Emission of RX

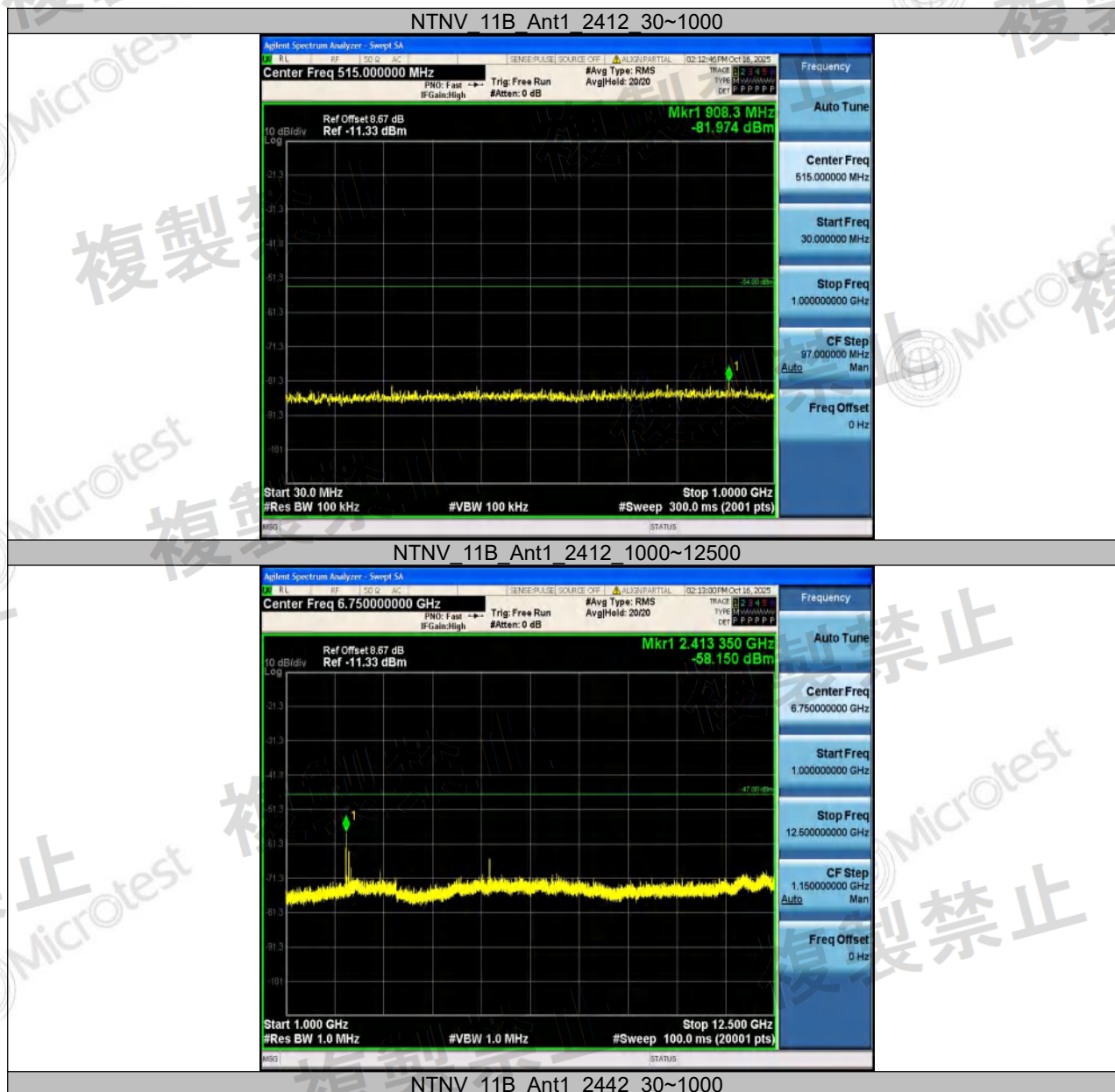
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-81.97	≤-54	0.00635	≤4	PASS
				1000~12500	-58.15	≤-47	1.53109	≤20	PASS
			2442	30~1000	-74.91	≤-54	0.03228	≤4	PASS
				1000~12500	-62.36	≤-47	0.58076	≤20	PASS
			2472	30~1000	-82.47	≤-54	0.00566	≤4	PASS
				1000~12500	-63.12	≤-47	0.48753	≤20	PASS
	11G	Ant1	2412	30~1000	-81.83	≤-54	0.00656	≤4	PASS
				1000~12500	-61.37	≤-47	0.72946	≤20	PASS
			2442	30~1000	-74.95	≤-54	0.03199	≤4	PASS
				1000~12500	-61.53	≤-47	0.70307	≤20	PASS
			2472	30~1000	-80.14	≤-54	0.00968	≤4	PASS
				1000~12500	-60.32	≤-47	0.92897	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-82.11	≤-54	0.00615	≤4	PASS
				1000~12500	-68.68	≤-47	0.13552	≤20	PASS
			2442	30~1000	-81.54	≤-54	0.00701	≤4	PASS
				1000~12500	-69.13	≤-47	0.12218	≤20	PASS
			2472	30~1000	-82.92	≤-54	0.00511	≤4	PASS
				1000~12500	-68.10	≤-47	0.15488	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	-82.38	≤-54	0.00578	≤4	PASS
				1000~12500	-66.71	≤-47	0.21330	≤20	PASS
			2442	30~1000	-82.79	≤-54	0.00526	≤4	PASS
				1000~12500	-64.84	≤-47	0.32810	≤20	PASS
			2462	30~1000	-82.95	≤-54	0.00507	≤4	PASS
				1000~12500	-62.91	≤-47	0.51168	≤20	PASS

TEST REPORT

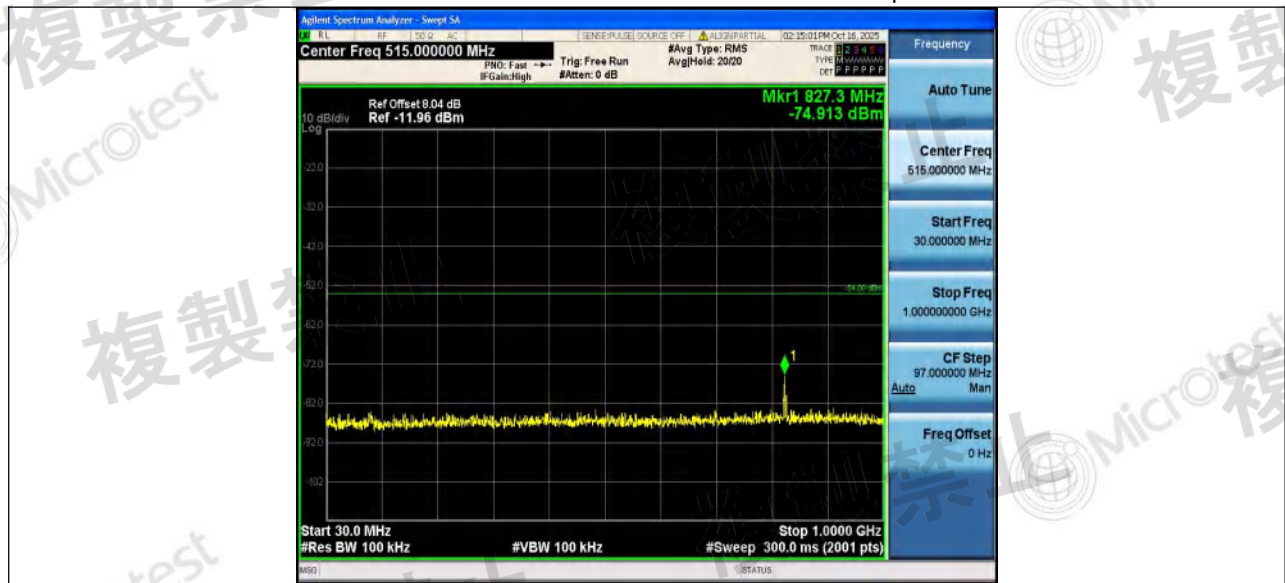
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Test Graphs

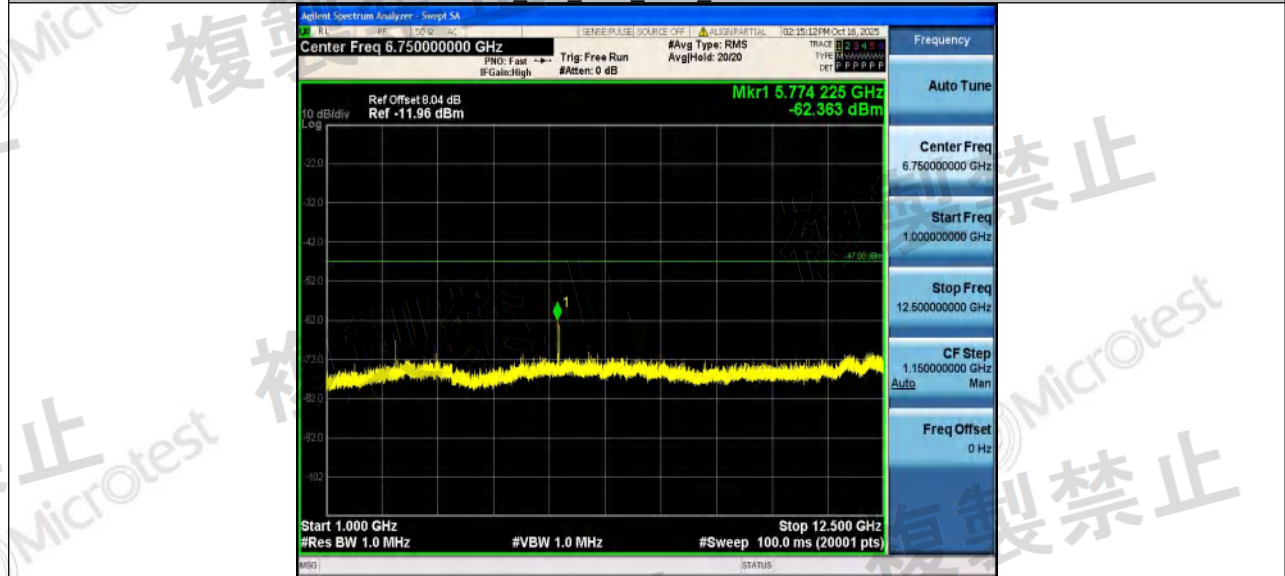


TEST REPORT

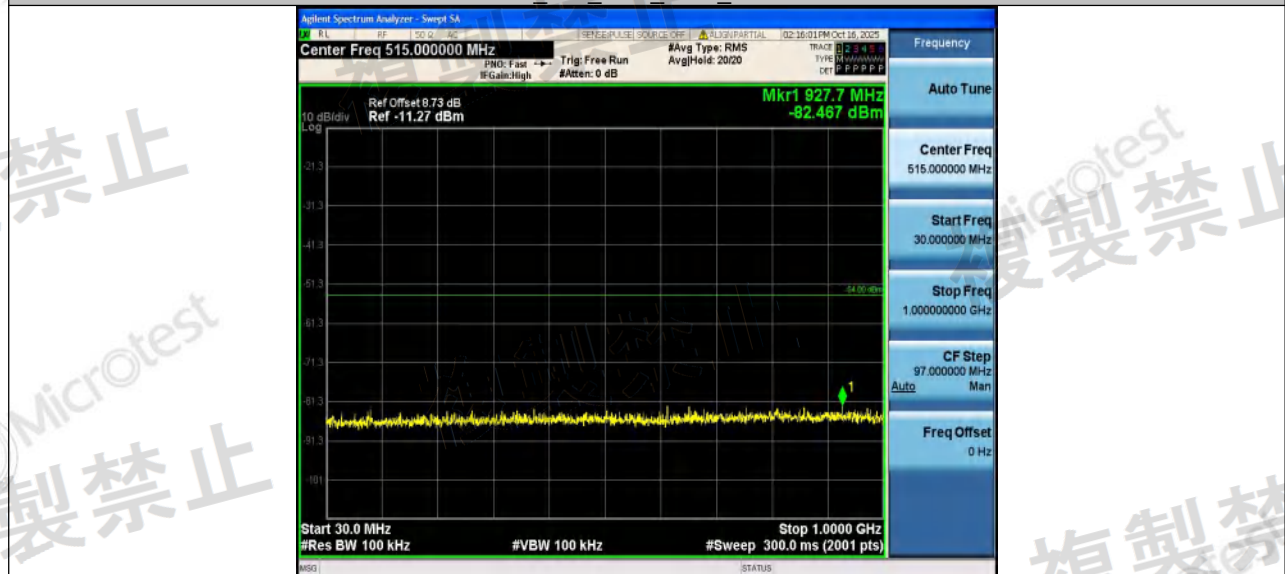
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NTNV_11B_Ant1_2442_1000~12500



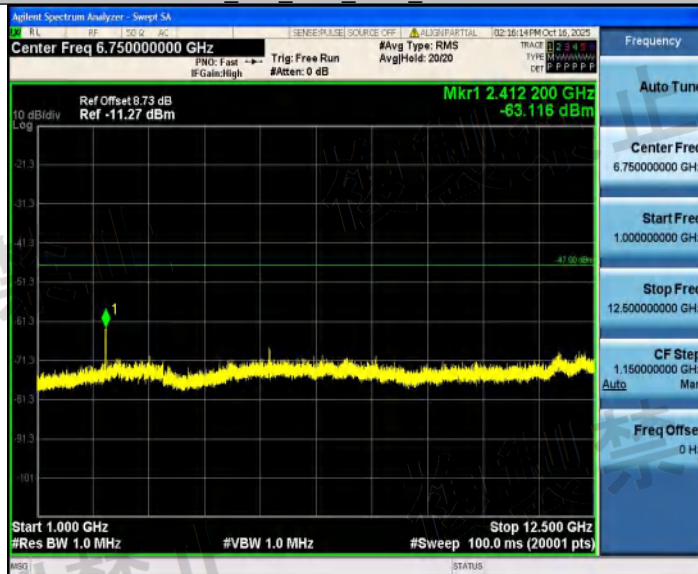
NTNV_11B_Ant1_2472_30~1000



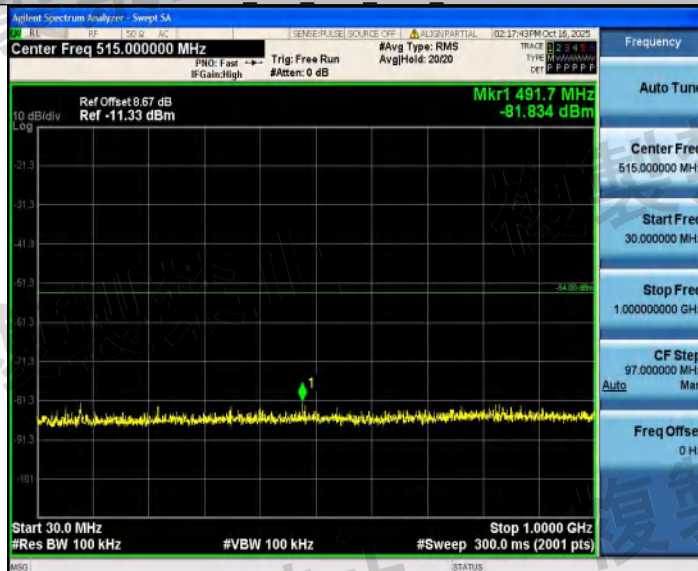
TEST REPORT

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NTNV 11B Ant1 2472 1000~12500



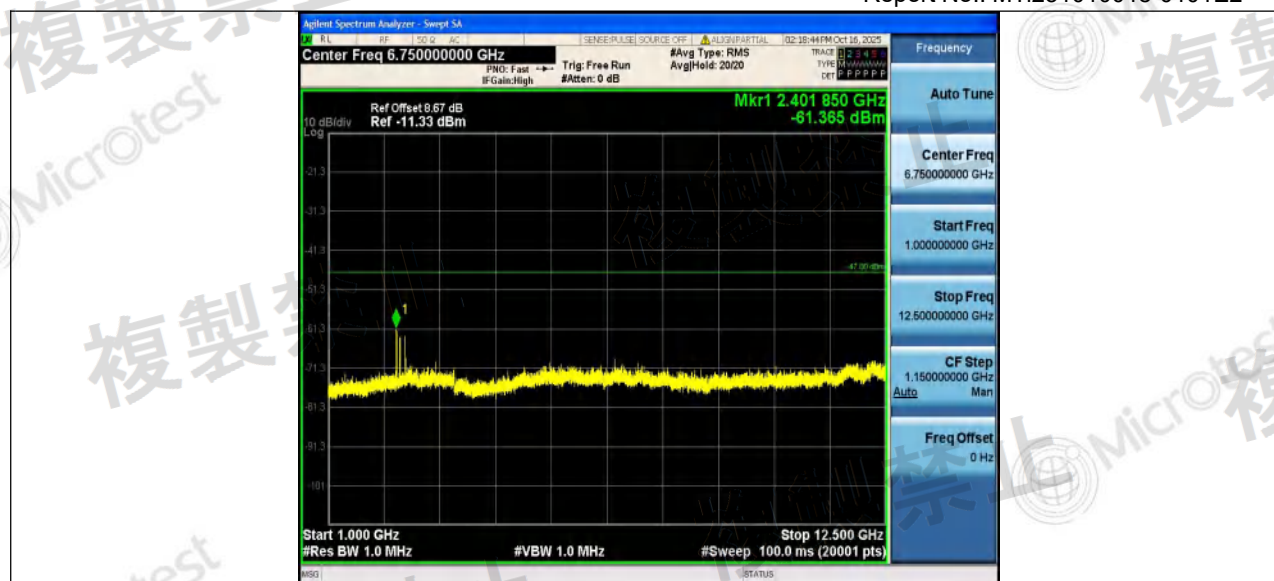
NTNV 11G Ant1 2412 30~1000



NTNV 11G Ant1 2412 1000~12500

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NTNV_11G_Ant1_2442_30~1000

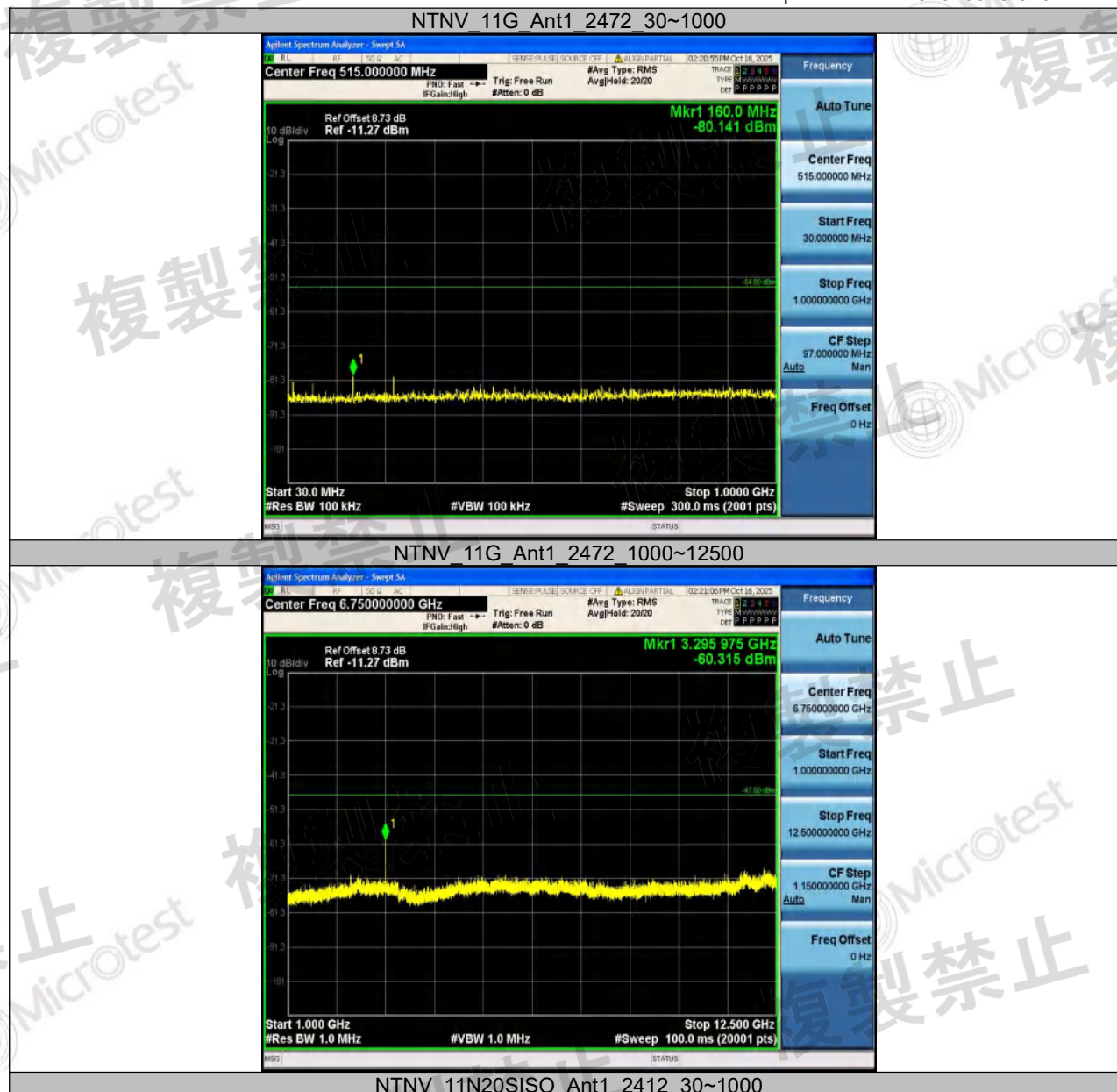


NTNV_11G_Ant1_2442_1000~12500



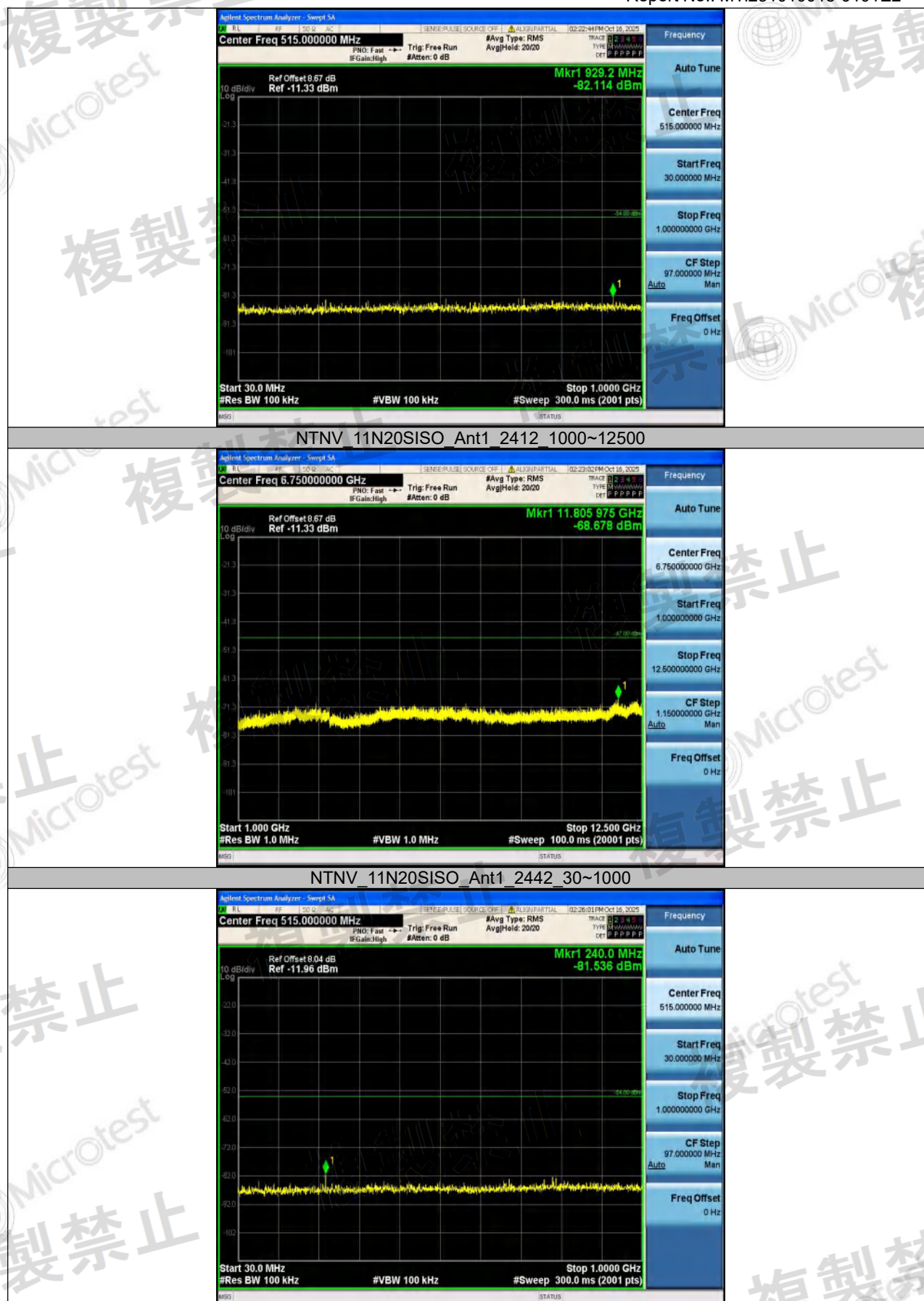
TEST REPORT

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TEST REPORT

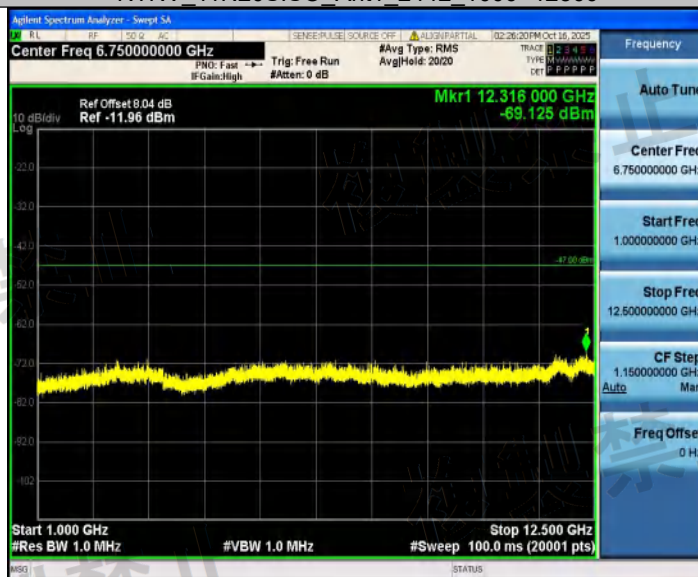
Report No.: MTi251010018-0101E2



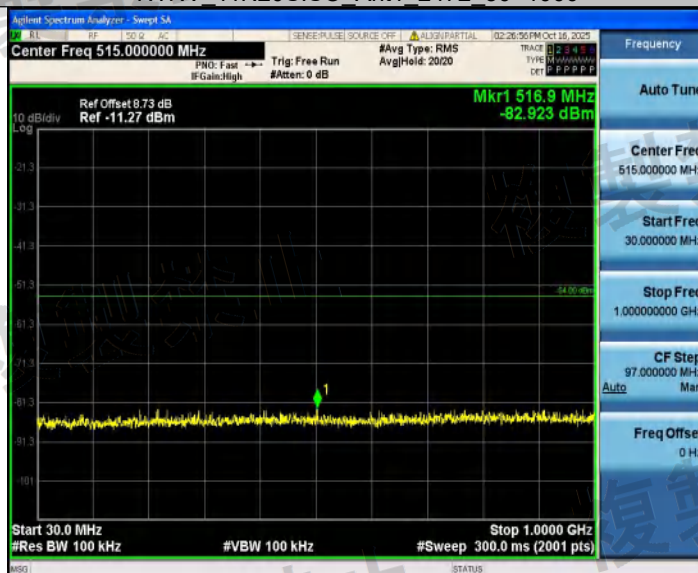
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NTNV 11N20SISO_Ant1_2442 1000~12500



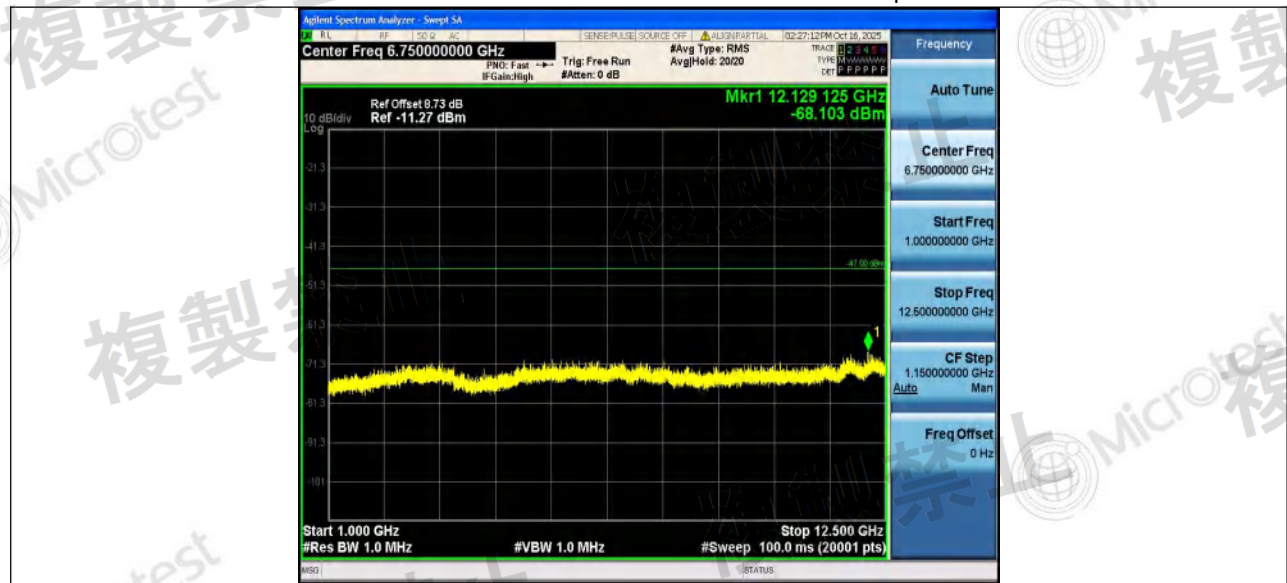
NTNV 11N20SISO_Ant1_2472 30~1000



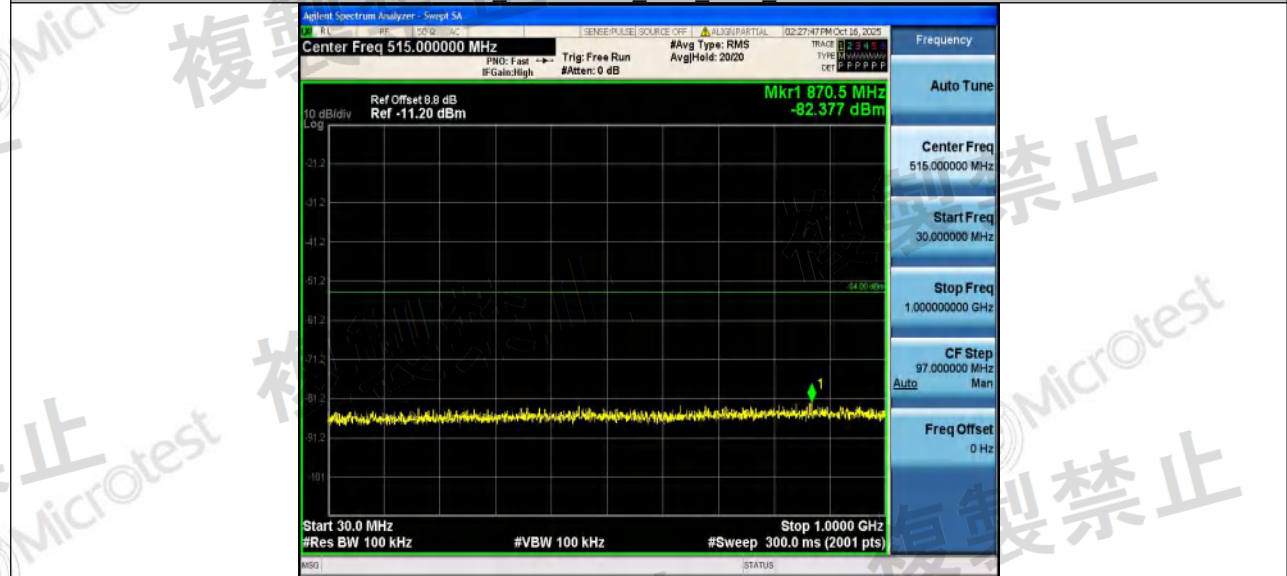
NTNV 11N20SISO_Ant1_2472 1000~12500

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NTNV_11N40SISO_Ant1_2422_30~1000



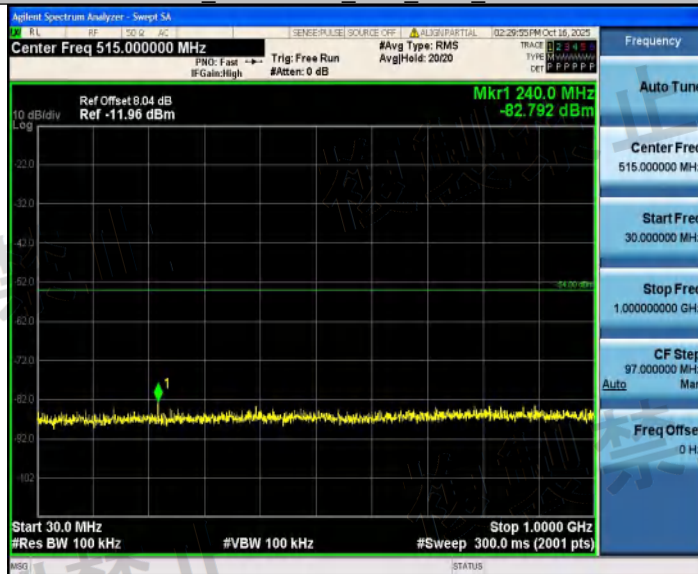
NTNV_11N40SISO_Ant1_2422_1000~12500



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NTNV 11N40SISO Ant1 2442 30~1000



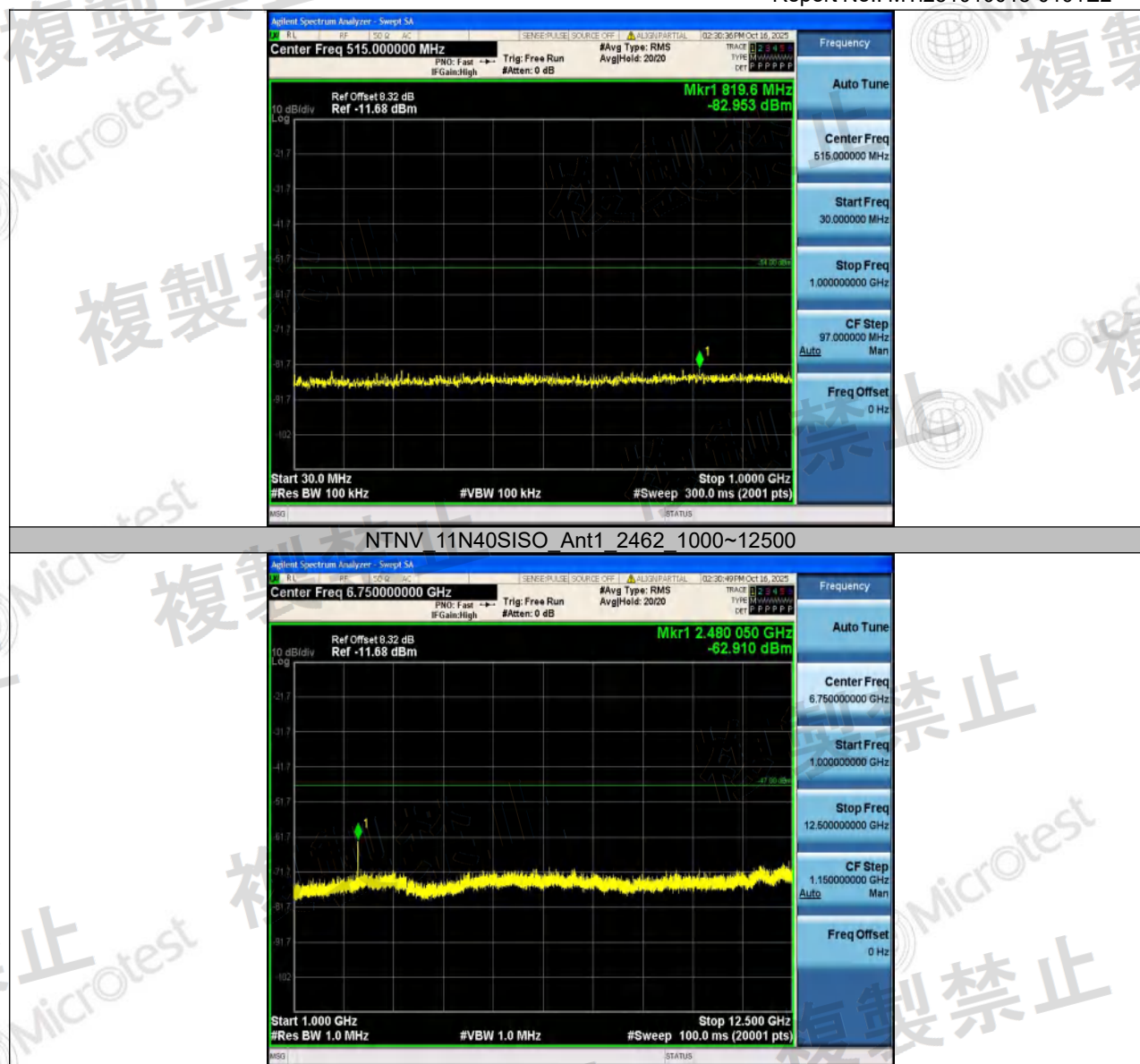
NTNV 11N40SISO Ant1 2442 1000~12500



NTNV 11N40SISO Ant1 2462 30~1000

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Statement

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6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****