

Test Report

Report No. : MTi260421009-0116E1

Date of issue : 2026-05-29

Applicant : ShenZhen Cannice Technology Co.,Ltd.

Product : OTC Intelligent Hearing Aids

Model(s) : Nano2

Shenzhen Microtest Co., Ltd.

TEST REPORT

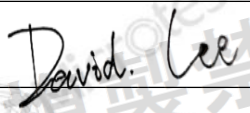
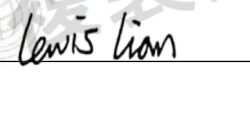
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Test Result Certification		
Applicant	ShenZhen Cannice Technology Co.,Ltd.	
Applicant Address	20/F,Tower A,Building 7,Baoneng Science and Technology Park,Qingxiang Road #1,Longhua New District,Shenzhen, China	
Manufacturer	ShenZhen Cannice Technology Co.,Ltd.	
Manufacturer Address	20/F,Tower A,Building 7,Baoneng Science and Technology Park,Qingxiang Road #1,Longhua New District,Shenzhen, China	
Factory	Guangxi Cannice Precision Technology Co.Ltd.	
Factory Address	Block C,South of Longtuan West Road Zhongshan Town,Zhongshan County Hezhou Guangxi 542600 China	
Product description		
Product name	OTC Intelligent Hearing Aids	
Trademark	N/A	
Model name	Nano2	
Series Model(s)	N/A	
Standards	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	
Testing Information		
Date of test	2026-05-13 to 2026-05-22	
Test result	Pass	
Prepared by:	James Qin	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

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1 General Description

1.1 Description of the EUT

Product name:	OTC Intelligent Hearing Aids
Model name:	Nano2
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/1A Battery: Earbuds: DC 3.73V 22.5mAh 0.084Wh Charging case: DC 3.7V 180mAh 0.666Wh
Accessories:	Charging case: Model: Nano(MIC number: 220-JP9818)
Hardware version:	V0A
Software version:	V0E
Test sample(s) number:	MTi260421009-01-R001
RF specification	
Bluetooth version:	V5.4
Operating frequency range:	2402-2480MHz
Channel number:	79
Modulation type:	GFSK, $\pi/4$ -DQPSK
Antenna(s) type:	FPC
Antenna(s) gain:	Left earbuds: -8.04dBi, Right earbuds: -9.62dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK-Left earbuds
Mode2	TX- $\pi/4$ -DQPSK-Left earbuds
Mode3	TX-GFSK-Right earbuds
Mode4	TX- $\pi/4$ -DQPSK-Right earbuds
Mode5	unmodulated carrier-Left earbuds
Mode6	unmodulated carrier-Right earbuds
Mode7	RX-Left earbuds
Mode8	RX-Right earbuds

Note:**Left earbuds: ANT1, Right earbuds: ANT2**

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1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

Test Channel List Operation Band: 1

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
1	2402	2441	2480

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.

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Test Software: FCC Assist 1.0.2.2

For power setting, refer to below table.

Mode	2402MHz	2441MHz	2480MHz
GFSK	10	10	10
$\pi/4$ -DQPSK	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	3.33
NTHV ($V_{\text{max.}}$)	+10%	3.33	3.33
NTLV ($V_{\text{min.}}$)	-10%	4.07	3.33

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

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 Bandwidth (90%)	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	Dwell Time	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
8	Interference Prevention Function	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
9	Transmission Antenna Absolute Gain	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
10	Half Power Beam Angle (Radiation angle of antenna)	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	N/A

Notes:

N/A means not applicable

Transmitter antenna beam width: this requirement does not apply to the EUT when its EIRP is under 6.91dBm/MHz.

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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
Dwell Time Tolerance of Frequency Occupied Bandwidth (99%) Spread Bandwidth (90%) Antenna Power and Tolerance Spurious Emission Intensity Secondary Radiated Emissions							
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08	C
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08	C
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09	C
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09	C
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08	C
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10	C
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10	C
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09	C
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08	C
10	RF Test System	Tonscend	JS1120-3 Test System	V3.6.21	/	/	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: 2C:DE:DF:57:A0:43

Test result: The device meet the requirements
PASS

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6 Radio Spectrum Matter Test Results (RF)

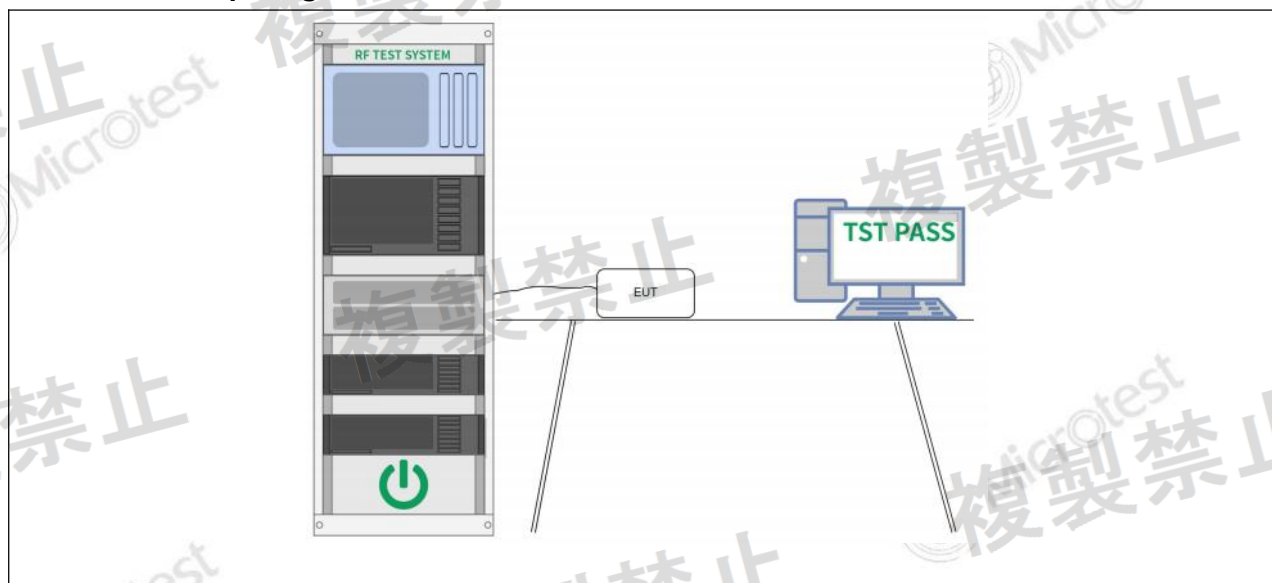
6.1 Tolerance of Frequency

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:	100 kHz (Modulation ON)
	VBW:	100 kHz (Modulation ON)
	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:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode5, Mode6				
Final test mode:	Mode5, Mode6				

6.1.2 Test Setup Diagram:



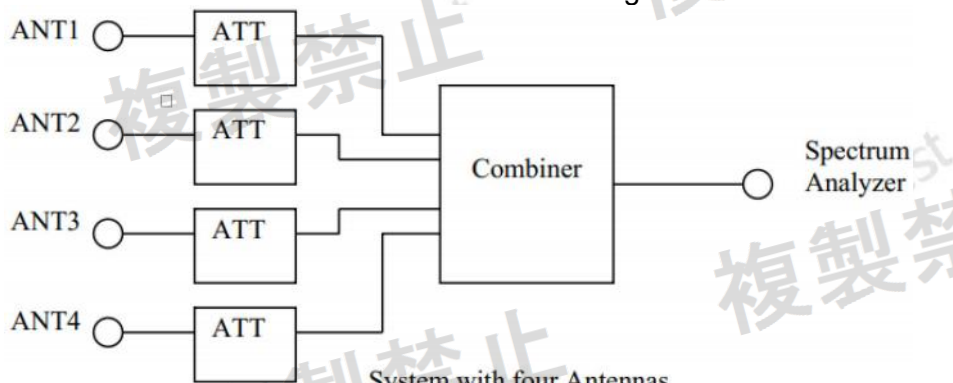
6.1.3 Test Data:

Please Refer to Appendix for Details.

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6.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19																		
Test Limit:	For FHSS or FHSS and other modulation Hybrid: 83.5 MHz or less: 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] 83.5 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:  System with four Antennas	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%																		

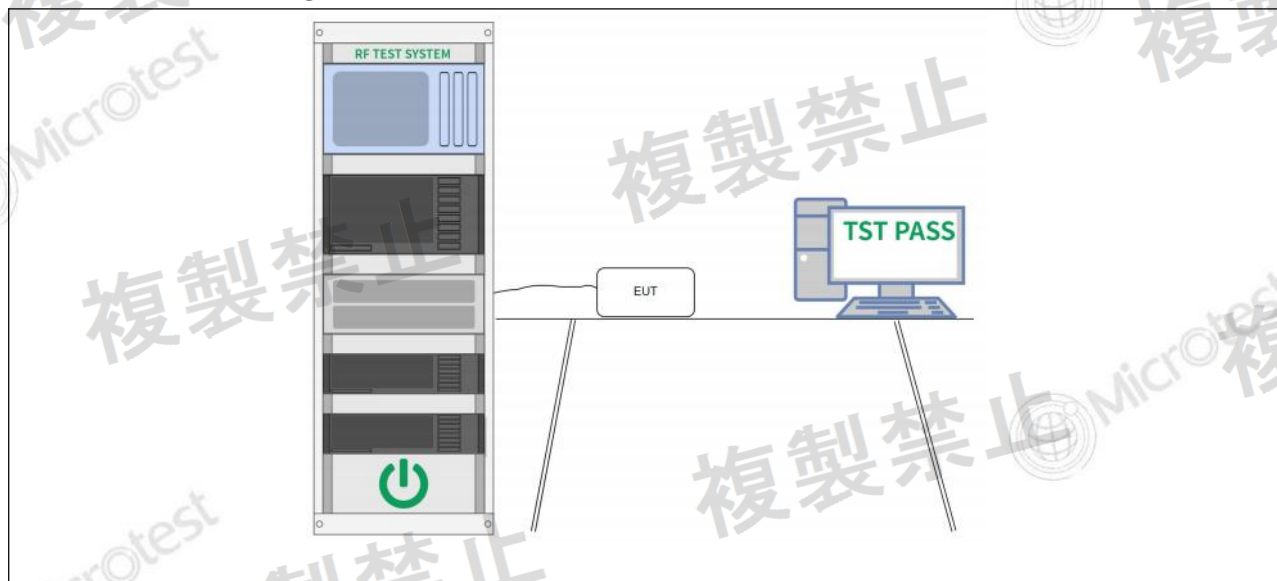
6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

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6.2.2 Test Setup Diagram:



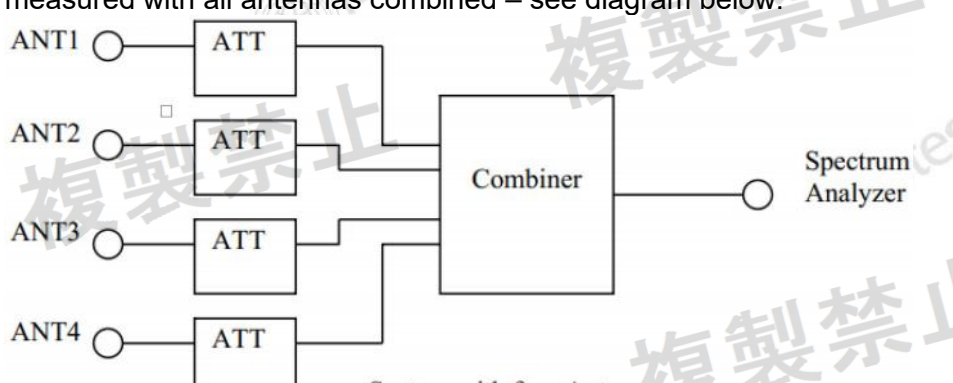
6.2.3 Test Data:

Please Refer to Appendix for Details.

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6.3 Spread Bandwidth (90%)

Test Requirement:	Article 2-1, Item 19																		
Test Limit:	Only for report use.																		
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>90%</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:  System with four Antennas	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:	90%
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:	90%																		

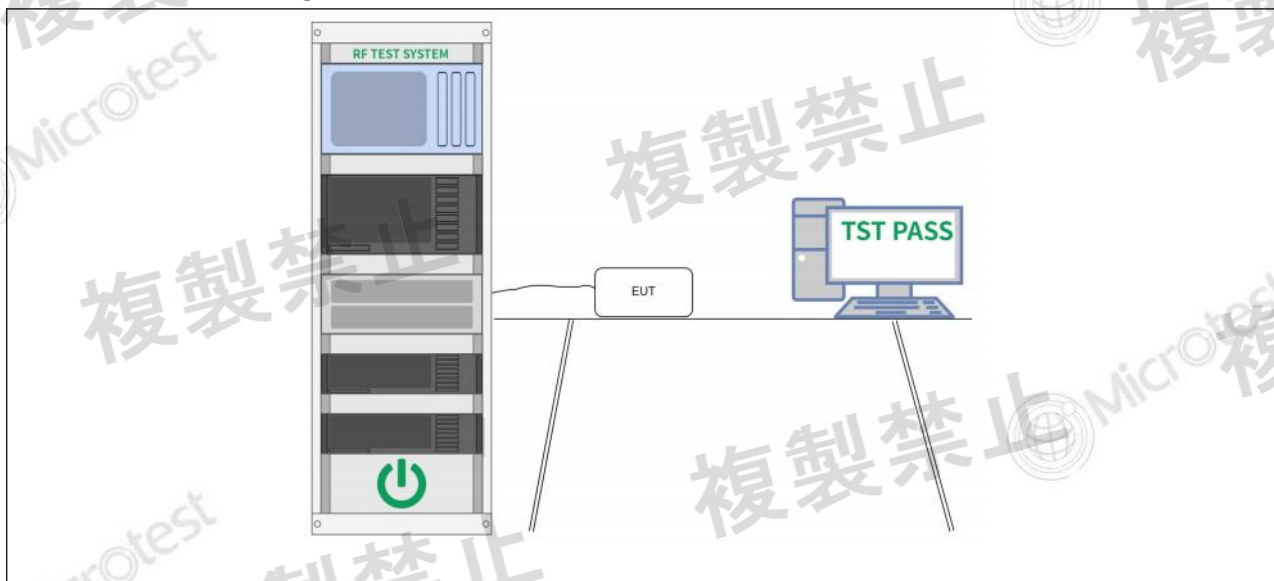
6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

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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: 3 mW/MHz or less Tolerance: +20% or less EIRP: 6.91dBm/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.  <pre> graph LR EUT[EUT] --- PM[Power meter] </pre> (1) Calculate Antenna Power using the following formula: $\text{Antenna Power (W/MHz)} = \text{Average Burst Power (W)} / \text{Spread Bandwidth (MHz)} \text{ [Note]}$ Spread Bandwidth in the formula above is derived from the data collected in section 5 (Occupied Bandwidth (99%) and Spread Bandwidth (90%)) (2) If the EUT has multiple antennas then each antenna power output shall be measured individually – the sum of these individual measurements shall represent the power output value

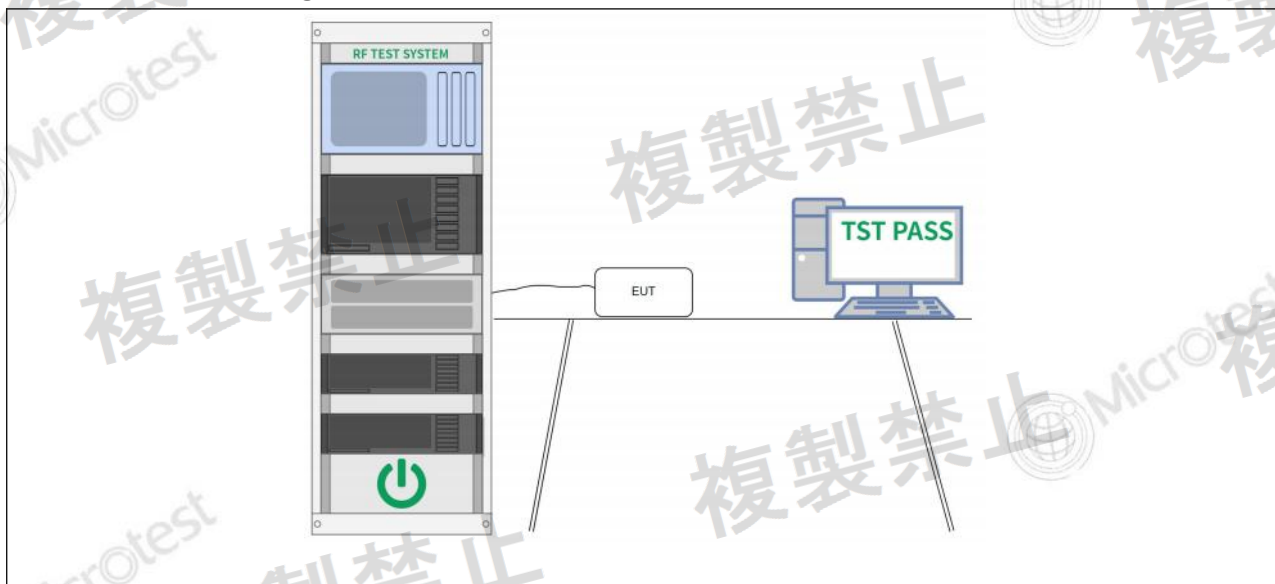
6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

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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 measurement.	

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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 = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2 \text{ [dB]}$ 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

RBW: Resolution Bandwidth (MHz).

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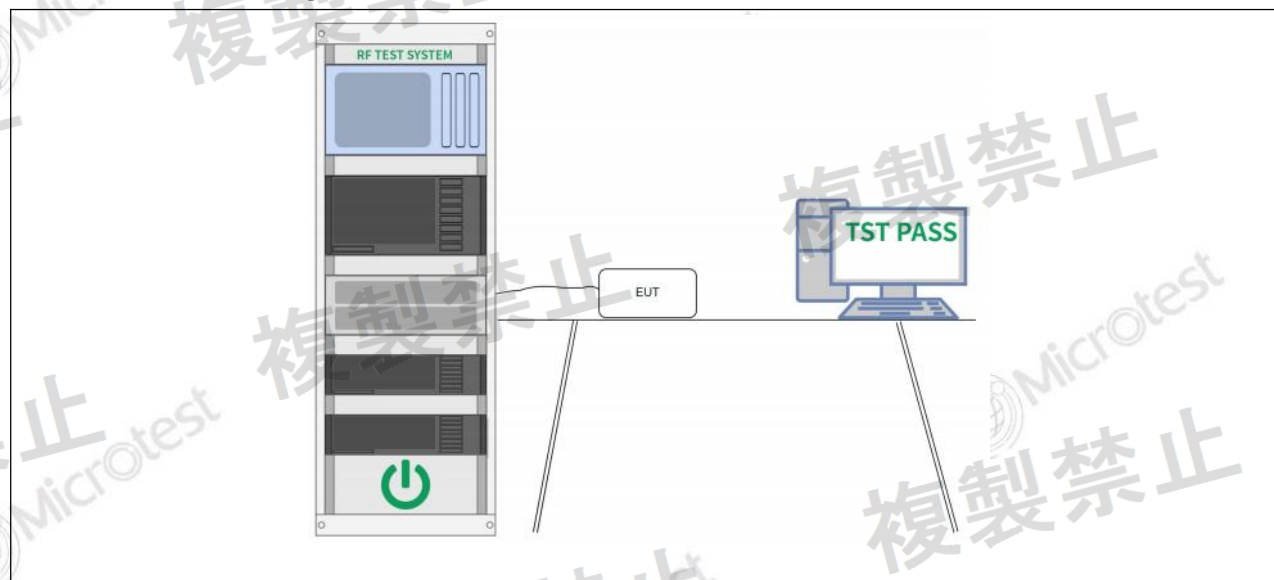
(10) If the EUT has multiple antennas, measure the spurious emission from each individual antenna using steps (1) through (9)
(11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values
(12) Combine (sum) the absolute values of the spurious measurements at each 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:	23 °C	Humidity:	45 %	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:

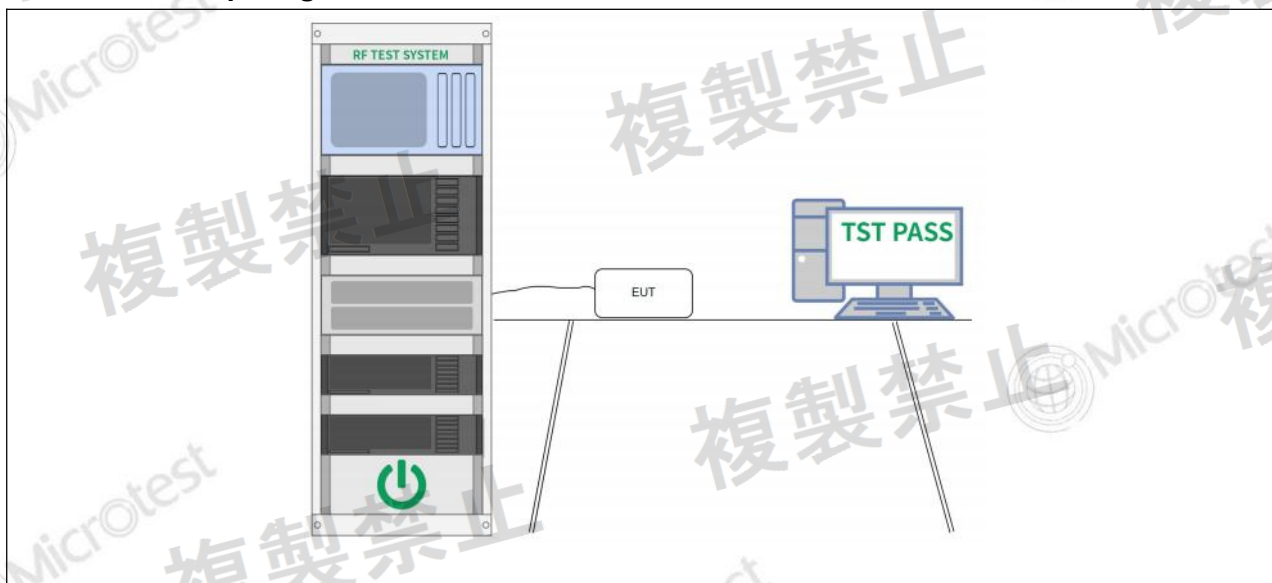
Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode7, Mode8				

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Final test mode:	Mode7, Mode8
------------------	--------------

6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

Report No.: MTi260421009-0116E1

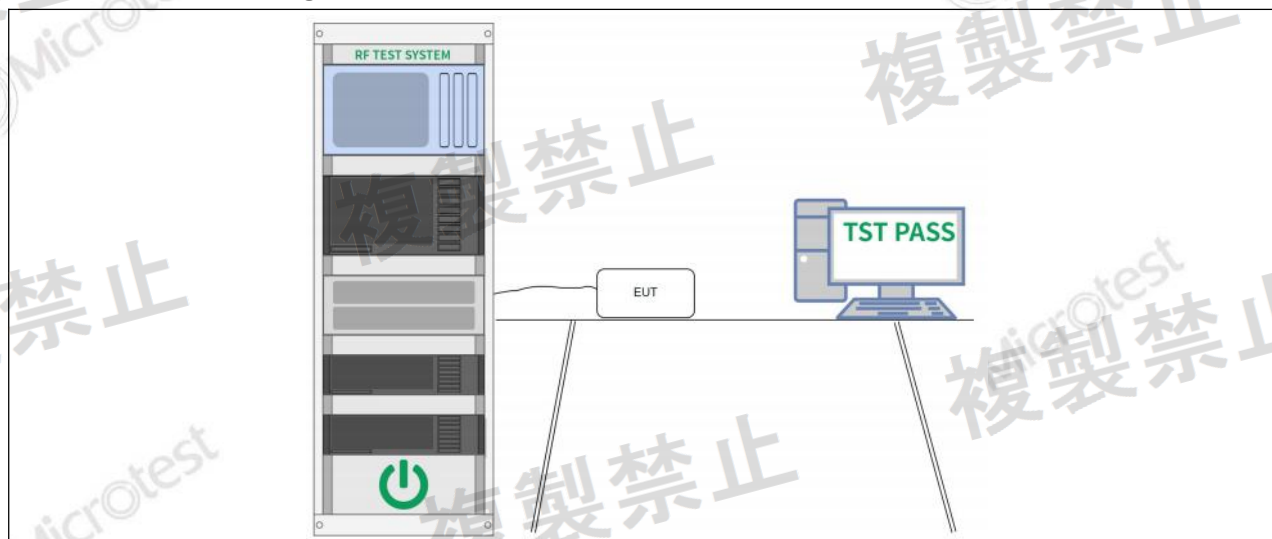
6.7 Dwell Time

Test Requirement:	Article 2-1, Item 19	
Test Limit:	Transmit ON Time shall be less than 0.4 seconds Total Dwell Time shall be less than 0.4 seconds	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1]	
	Frequency:	Test frequency
	Span:	0 Hz
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep data points:	1001 or greater
	Trigger:	Video trigger
	Detection mode:	Positive peak
	(1) Configure the spectrum analyzer to [Setting 1] (2) Measure the Burst Cycle and Transmit ON Time (3) Total Dwell Time shall be calculated by the following formula: Total Dwell Time = (0.4 x Spreading Rate x Transmit ON Time) / (Burst Cycle x Number of Hopping Channels) [Notes] a. Spreading Rate = Spread Bandwidth (measured value) / Transmission Rate b. Transmit ON Time and Burst Cycle are both measured in Seconds c. Numerical Coefficient (0.4) is a dimensionless number defined in the technical standard	

6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Please Refer to Appendix for Details.

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

TEST REPORT

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Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

TEST REPORT

Report No.: MTi260421009-0116E1

Appendix A: Deviation of frequency

Test Result

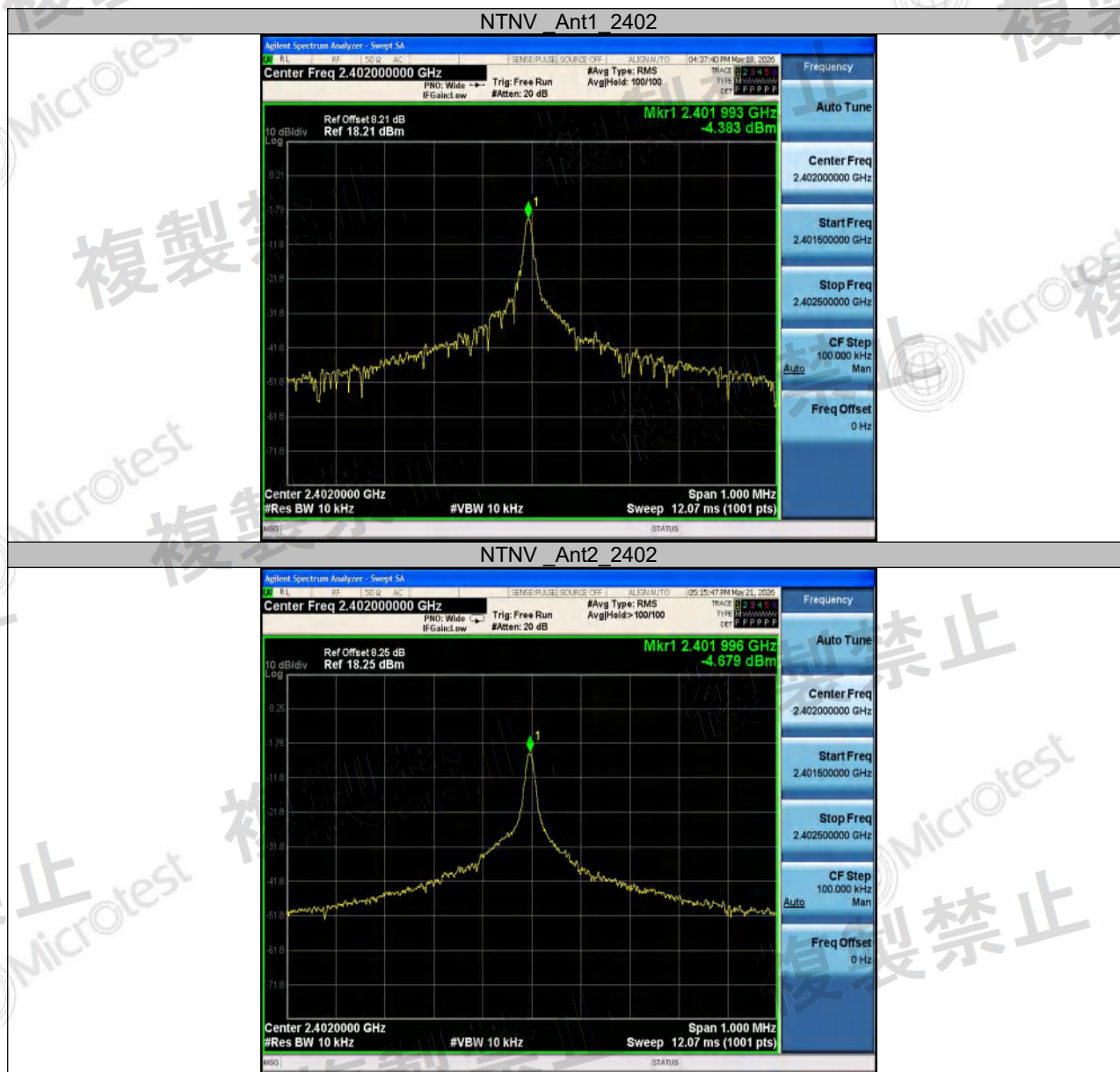
Test Condition	Test Mode	Antenna	Freq. [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	unmodulated carrier	Ant1	2402	2401.993	-2.91424	±50	PASS
		Ant2	2402	2401.996	-1.66528	±50	PASS
		Ant1	2441	2440.993	-2.86768	±50	PASS
		Ant2	2441	2440.996	-1.63867	±50	PASS
		Ant1	2480	2479.993	-2.82258	±50	PASS
		Ant2	2480	2479.996	-1.61290	±50	PASS

Note: Result [ppm] = (CenterFreq [MHz] – Freq. [MHz]) / Freq. [MHz] * 1000000

TEST REPORT

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Test Graphs



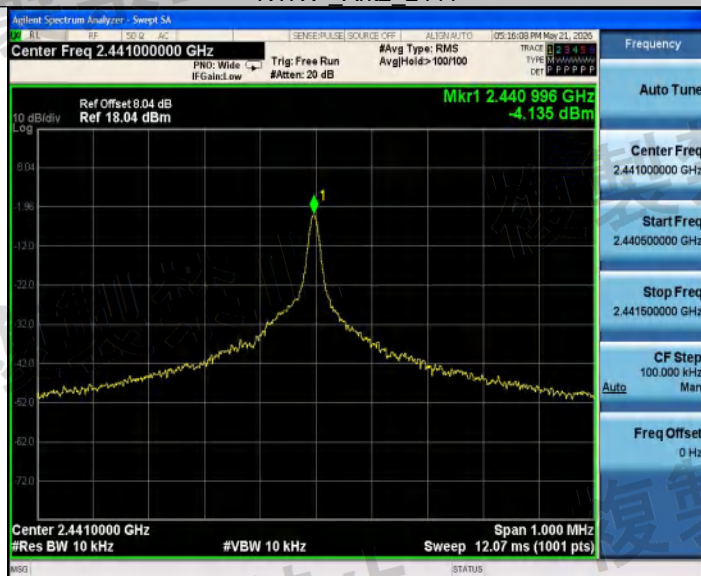
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_Ant1_2441

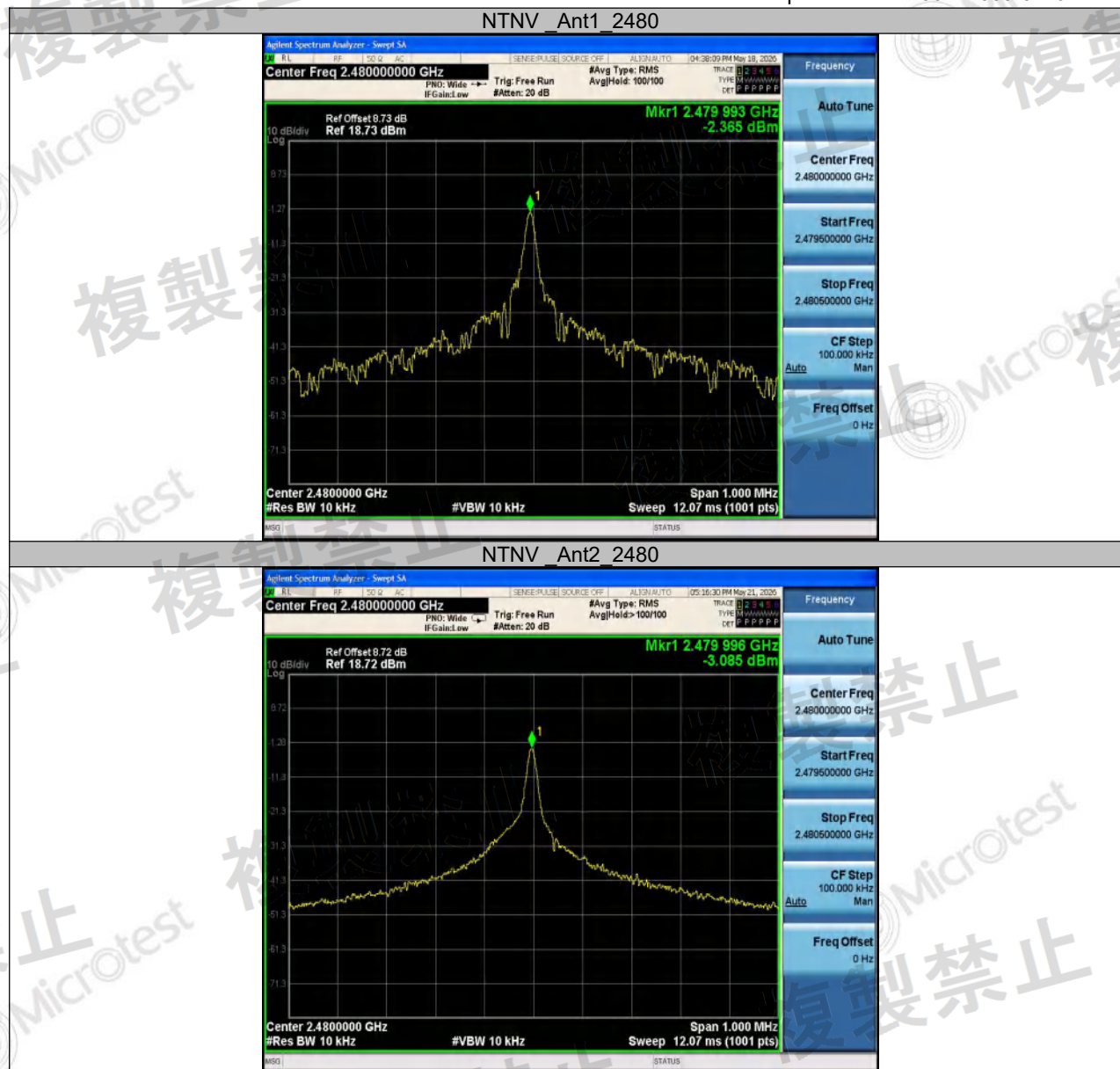


NTNV_Ant2_2441



TEST REPORT

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TEST REPORT

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Appendix B: Deviation of antenna power

Test Result

Antenna Power									
Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [dBm]	Result [mW]	Spread bandwidth [MHz]	Result [mW/MHz]	Limit [mW/MHz]	Verdict
NTNV	DH5	Ant1	Hop	-1.1	0.7762	70.937	0.0109	≤3	PASS
		Ant2	Hop	-1.65	0.6839	70.916	0.0096	≤3	PASS
	2DH5	Ant1	Hop	-2.79	0.526	71.711	0.0073	≤3	PASS
		Ant2	Hop	-3.12	0.4875	71.095	0.0069	≤3	PASS

Notes:

Result [mW/MHz] = Result [mW] / Spread bandwidth [MHz]

The duty cycle factor has been in compensation during the testing.

Duty cycle of DH5: 76.53%,

Duty cycle of 2DH5: 76.53%

Tolerance								
Test Condition	Test Mode	Antenna	Freq [MHz]	Power [mW/MHz]	RatedPower _r [mW/MHz]	Result [%]	Limit [%]	Verdict
NTNV	DH5	Ant1	Hop	0.0109	0.1	-89.06	≤20	PASS
		Ant2	Hop	0.0096	0.1	-90.36	≤20	PASS
	2DH5	Ant1	Hop	0.0073	0.1	-92.67	≤20	PASS
		Ant2	Hop	0.0069	0.1	-93.14	≤20	PASS

Notes:

Result = (Power [mW] – RatedPower [mW]) / RatedPower [mW] * 100

The rated power is 0.1 mW/MHz for DH5 mode, which is declared by the manufacturer.

The rated power is 0.1 mW/MHz for 2DH5 mode, which is declared by the manufacturer.

EIRP							
Test Condition	Test Mode	Antenna	Freq [MHz]	Power [dBm/ MHz]	EIRP [dBm/ MHz]	Limit [dBm/ MHz]	Verdict
NTNV	DH5	Ant1	Hop	-19.61	-27.65	≤6.91	PASS
		Ant2	Hop	-20.16	-29.78	≤6.91	PASS
	2DH5	Ant1	Hop	-21.35	-29.39	≤6.91	PASS
		Ant2	Hop	-21.68	-31.30	≤6.91	PASS

Notes:

The antenna gain is ANT1: -8.04 dBi, ANT2: -9.62 dBi.

EIRP= Conducted Peak Power+ antenna gain.

TEST REPORT

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Appendix C: Occupied Bandwidth

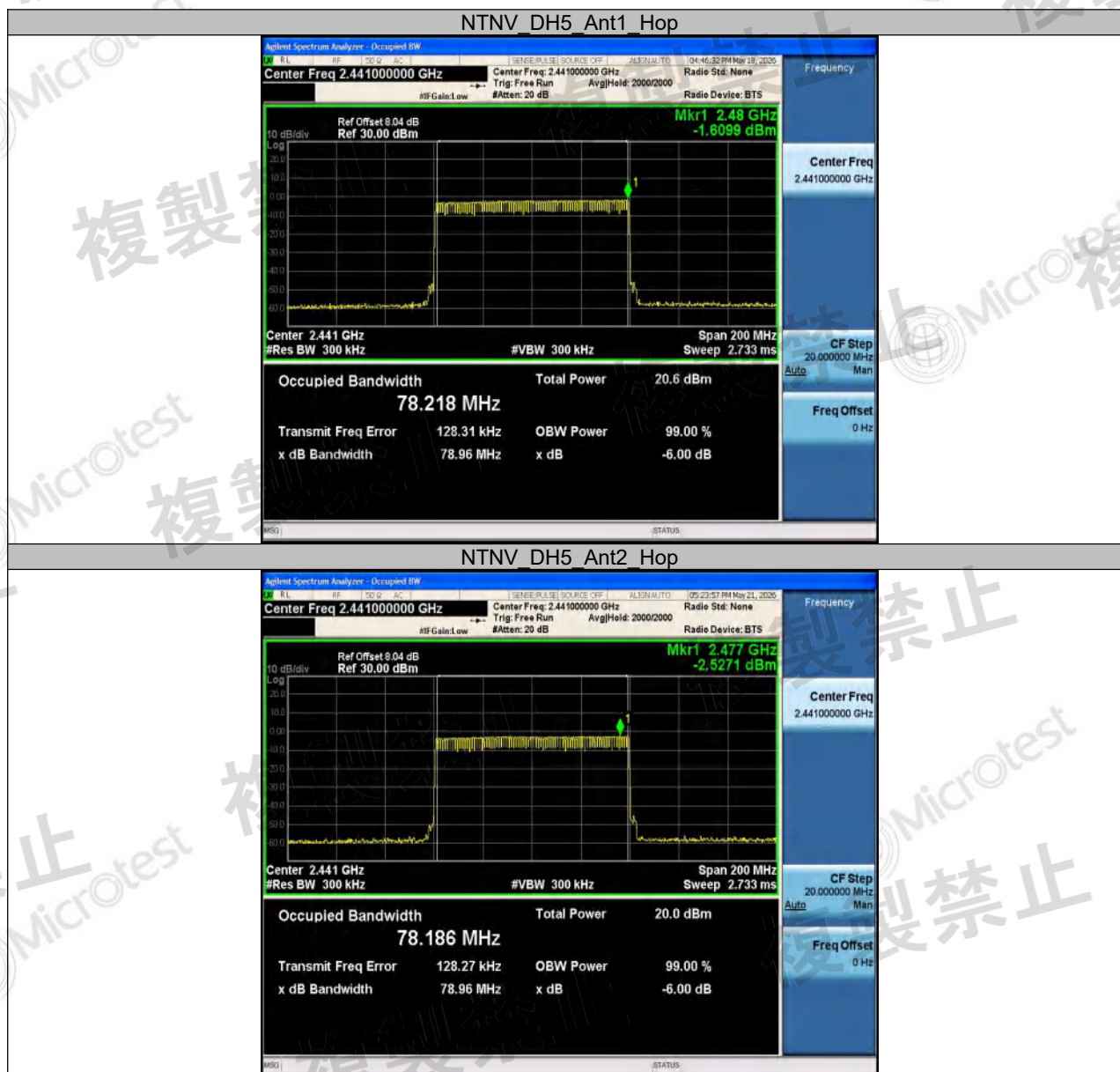
Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.218	≤83.5	PASS
		Ant2	Hop	78.186	≤83.5	PASS
	2DH5	Ant1	Hop	78.388	≤83.5	PASS
		Ant2	Hop	78.394	≤83.5	PASS

TEST REPORT

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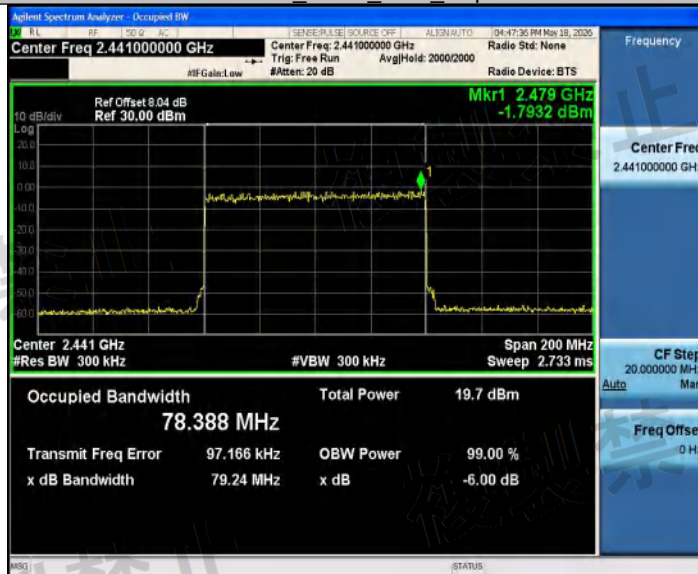
Test Graphs



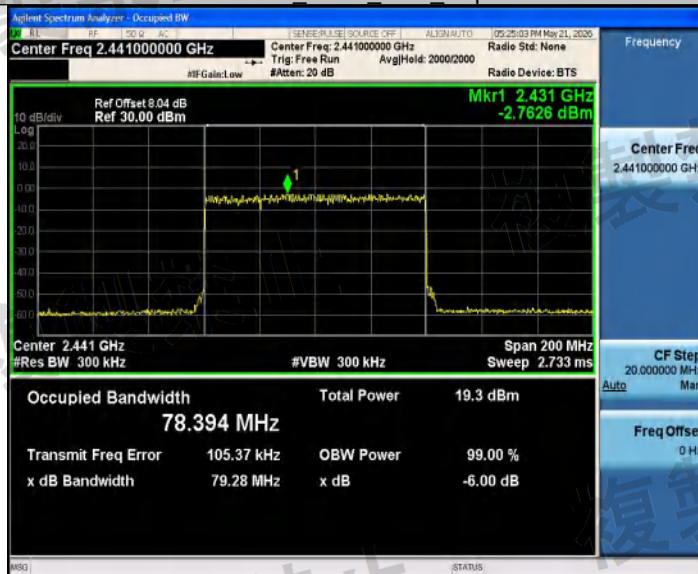
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5_Ant1_Hop



NTNV 2DH5_Ant2_Hop



TEST REPORT

Report No.: MTi260421009-0116E1

Appendix D: Spread Bandwidth

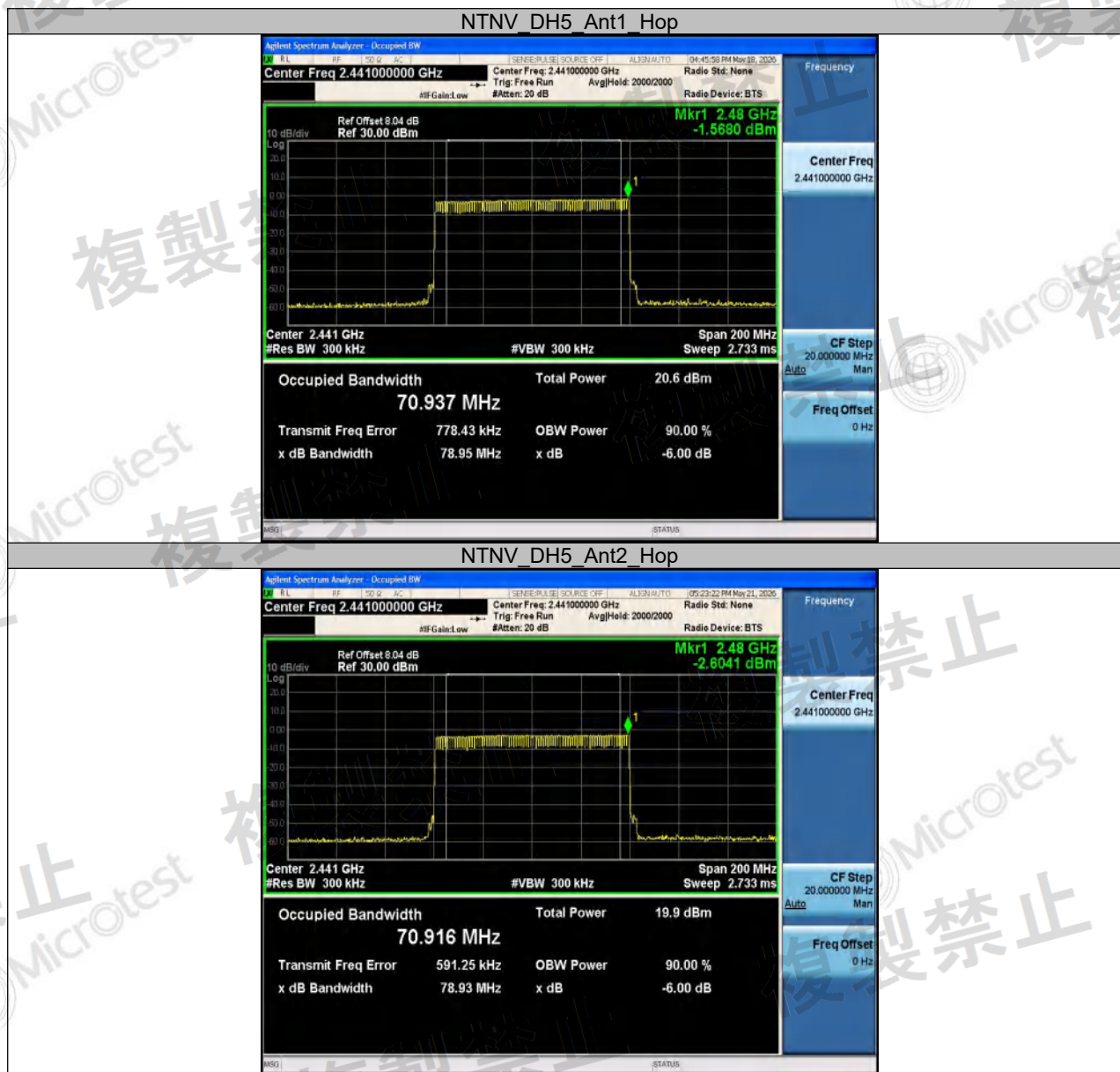
Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [MHz]
NTNV	DH5	Ant1	Hop	70.937
		Ant2	Hop	70.916
	2DH5	Ant1	Hop	71.711
		Ant2	Hop	71.095
		Ant2	Hop	71.095

TEST REPORT

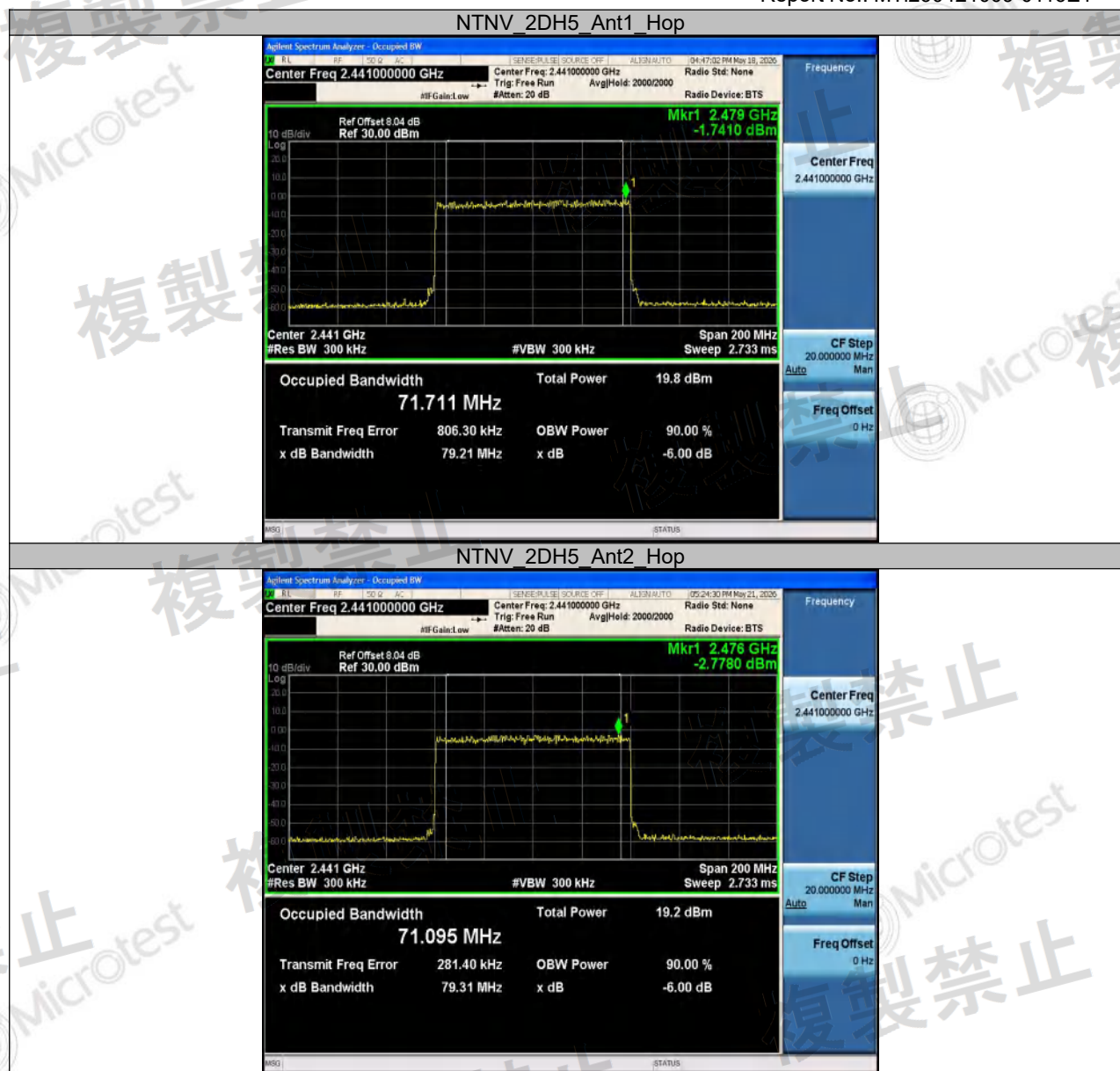
Report No.: MTi260421009-0116E1

Test Graphs



TEST REPORT

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TEST REPORT

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Appendix E: Spurious and unwanted emission intensity

Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-52.35	≤-26	0.00582	≤2.5	PASS
				1000~2387	-51.35	≤-26	0.00733	≤2.5	PASS
				2387~2400	-34.70	≤-16	0.33884	≤25	PASS
				2483.5~2496.5	-42.07	≤-16	0.06209	≤25	PASS
				2496.5~13000	-47.42	≤-26	0.01811	≤2.5	PASS
		Ant2	2402	30~1000	-52.31	≤-26	0.00587	≤2.5	PASS
				1000~2387	-51.74	≤-26	0.00670	≤2.5	PASS
				2387~2400	-34.33	≤-16	0.36898	≤25	PASS
				2483.5~2496.5	-41.66	≤-16	0.06823	≤25	PASS
				2496.5~13000	-47.35	≤-26	0.01841	≤2.5	PASS
		Ant1	2441	30~1000	-52.79	≤-26	0.00526	≤2.5	PASS
				1000~2387	-51.94	≤-26	0.00640	≤2.5	PASS
				2387~2400	-42.52	≤-16	0.05598	≤25	PASS
				2483.5~2496.5	-42.17	≤-16	0.06067	≤25	PASS
				2496.5~13000	-48.74	≤-26	0.01337	≤2.5	PASS
		Ant2	2441	30~1000	-51.74	≤-26	0.00670	≤2.5	PASS
				1000~2387	-51.86	≤-26	0.00652	≤2.5	PASS
				2387~2400	-42.26	≤-16	0.05943	≤25	PASS
				2483.5~2496.5	-41.71	≤-16	0.06745	≤25	PASS
				2496.5~13000	-46.94	≤-26	0.02023	≤2.5	PASS
		Ant1	2480	30~1000	-52.45	≤-26	0.00569	≤2.5	PASS
				1000~2387	-50.62	≤-26	0.00867	≤2.5	PASS
				2387~2400	-41.44	≤-16	0.07178	≤25	PASS
				2483.5~2496.5	-39.36	≤-16	0.11588	≤25	PASS
				2496.5~13000	-46.99	≤-26	0.02000	≤2.5	PASS
		Ant2	2480	30~1000	-52.18	≤-26	0.00605	≤2.5	PASS
				1000~2387	-50.39	≤-26	0.00914	≤2.5	PASS
				2387~2400	-41.43	≤-16	0.07194	≤25	PASS
				2483.5~2496.5	-38.95	≤-16	0.12735	≤25	PASS
				2496.5~13000	-45.82	≤-26	0.02618	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	-52.78	≤-26	0.00527	≤2.5	PASS
				1000~2387	-51.37	≤-26	0.00729	≤2.5	PASS
				2387~2400	-33.95	≤-16	0.40272	≤25	PASS
				2483.5~2496.5	-41.65	≤-16	0.06839	≤25	PASS
				2496.5~13000	-48.77	≤-26	0.01327	≤2.5	PASS
		Ant2	2402	30~1000	-52.57	≤-26	0.00553	≤2.5	PASS
				1000~2387	-51.50	≤-26	0.00708	≤2.5	PASS
				2387~2400	-35.13	≤-16	0.30690	≤25	PASS
				2483.5~2496.5	-41.13	≤-16	0.07709	≤25	PASS
				2496.5~13000	-47.68	≤-26	0.01706	≤2.5	PASS

TEST REPORT

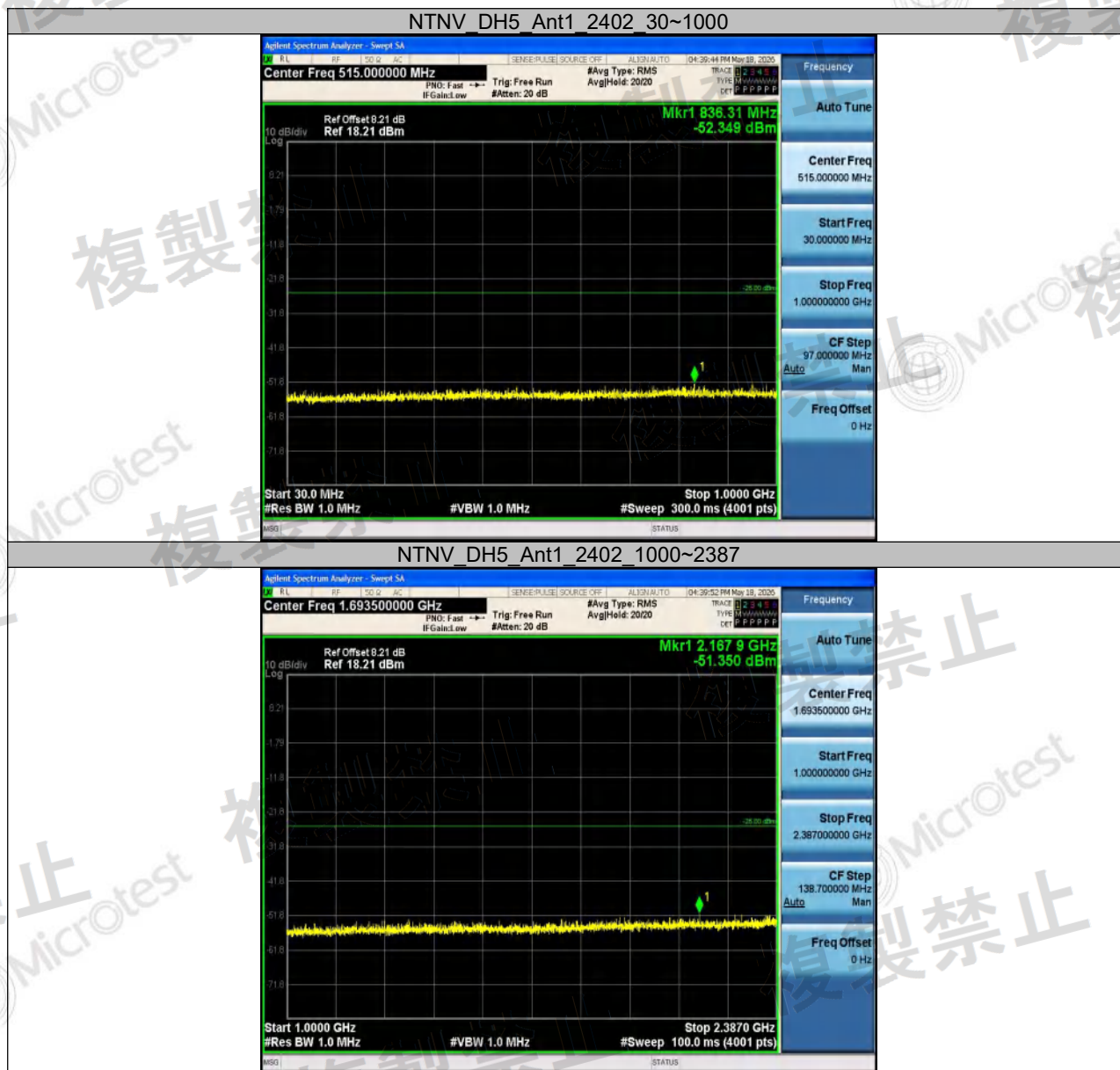
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				0					
				30~1000	-52.31	≤-26	0.00587	≤2.5	PASS
				1000~2387	-51.96	≤-26	0.00637	≤2.5	PASS
				2387~2400	-41.72	≤-16	0.06730	≤25	PASS
				2483.5~2496.5	-40.87	≤-16	0.08185	≤25	PASS
				2496.5~13000	-47.85	≤-26	0.01641	≤2.5	PASS
		Ant2	2441	30~1000	-52.54	≤-26	0.00557	≤2.5	PASS
				1000~2387	-51.57	≤-26	0.00697	≤2.5	PASS
				2387~2400	-42.06	≤-16	0.06223	≤25	PASS
				2483.5~2496.5	-41.70	≤-16	0.06761	≤25	PASS
				2496.5~13000	-48.01	≤-26	0.01581	≤2.5	PASS
		Ant1	2480	30~1000	-52.28	≤-26	0.00592	≤2.5	PASS
				1000~2387	-50.72	≤-26	0.00847	≤2.5	PASS
				2387~2400	-41.42	≤-16	0.07211	≤25	PASS
				2483.5~2496.5	-39.77	≤-16	0.10544	≤25	PASS
				2496.5~13000	-47.61	≤-26	0.01734	≤2.5	PASS
		Ant2	2480	30~1000	-52.52	≤-26	0.00560	≤2.5	PASS
				1000~2387	-51.08	≤-26	0.00780	≤2.5	PASS
				2387~2400	-41.57	≤-16	0.06966	≤25	PASS
				2483.5~2496.5	-39.55	≤-16	0.11092	≤25	PASS
				2496.5~13000	-46.31	≤-26	0.02339	≤2.5	PASS

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Test Graphs



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant1_2402_2387~2400

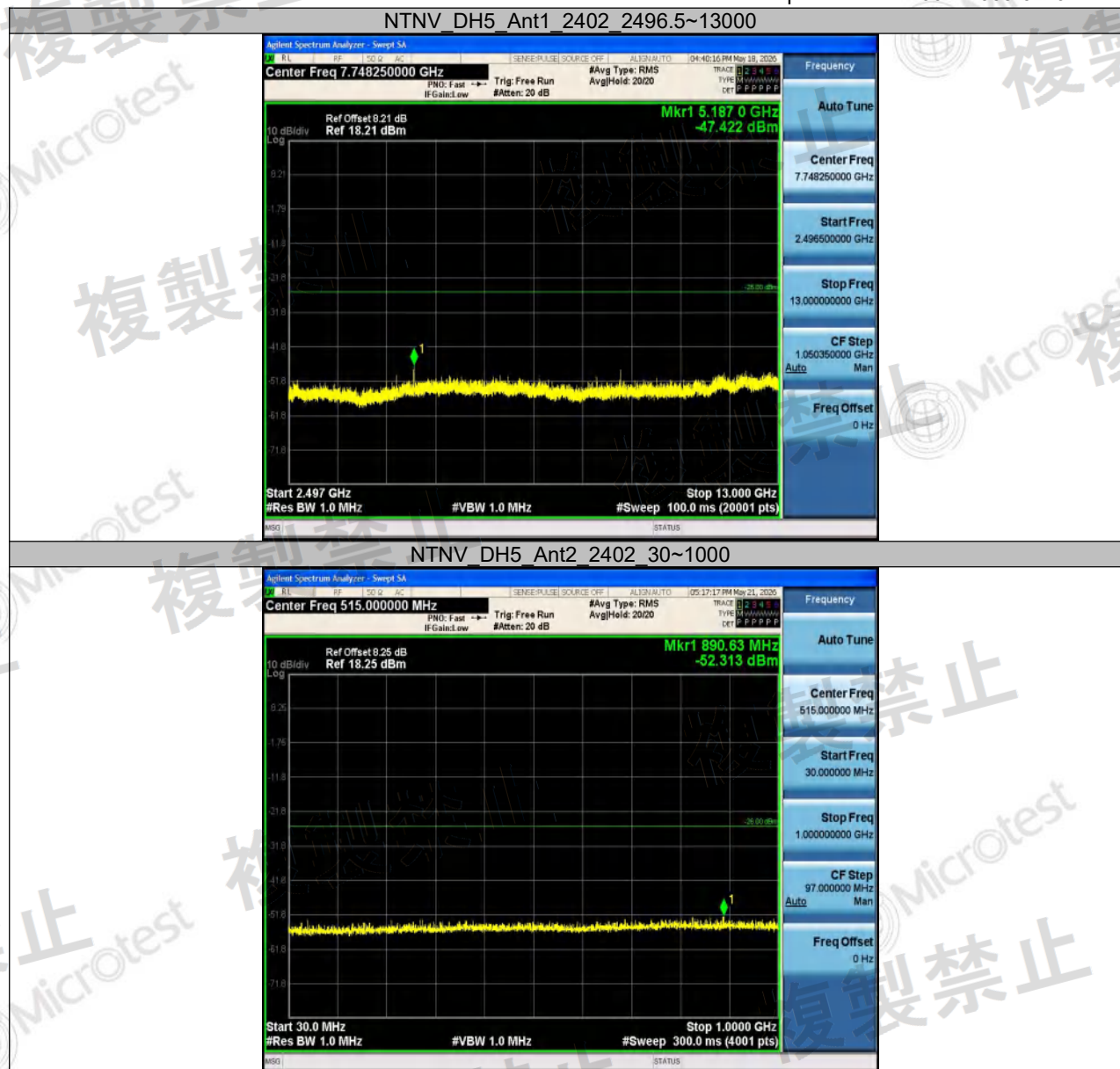


NTNV DH5_Ant1_2402_2483.5~2496.5



TEST REPORT

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TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant2_2402_1000~2387



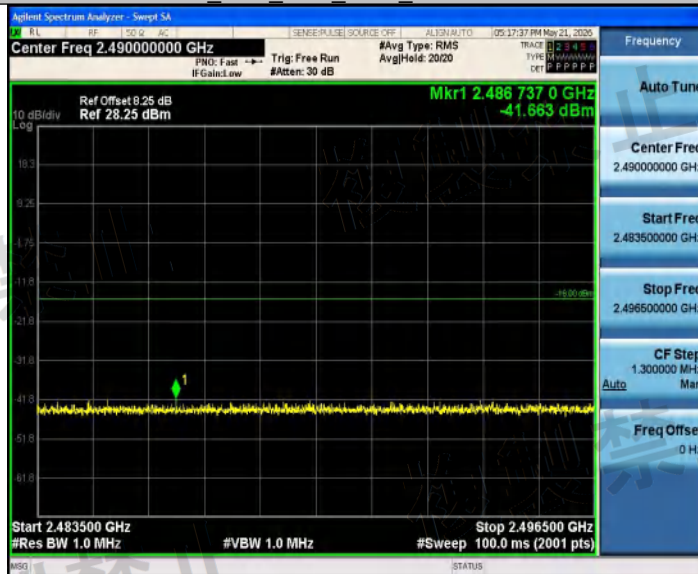
NTNV DH5_Ant2_2402_2387~2400



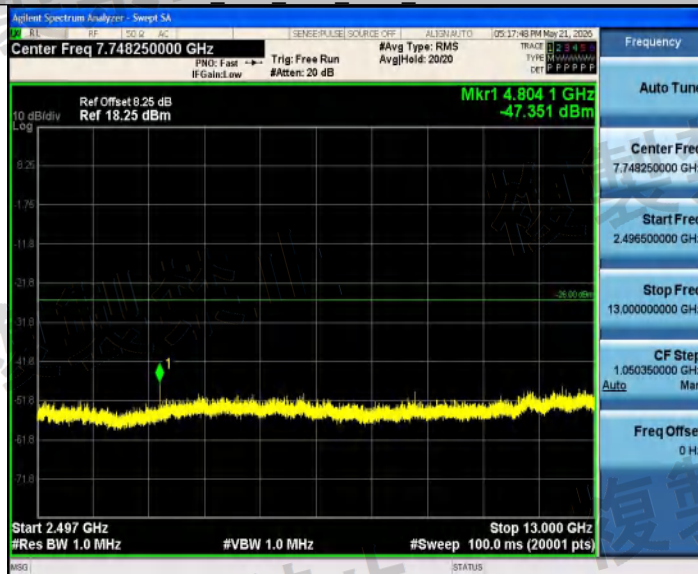
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_DH5_Ant2_2402_2483.5~2496.5

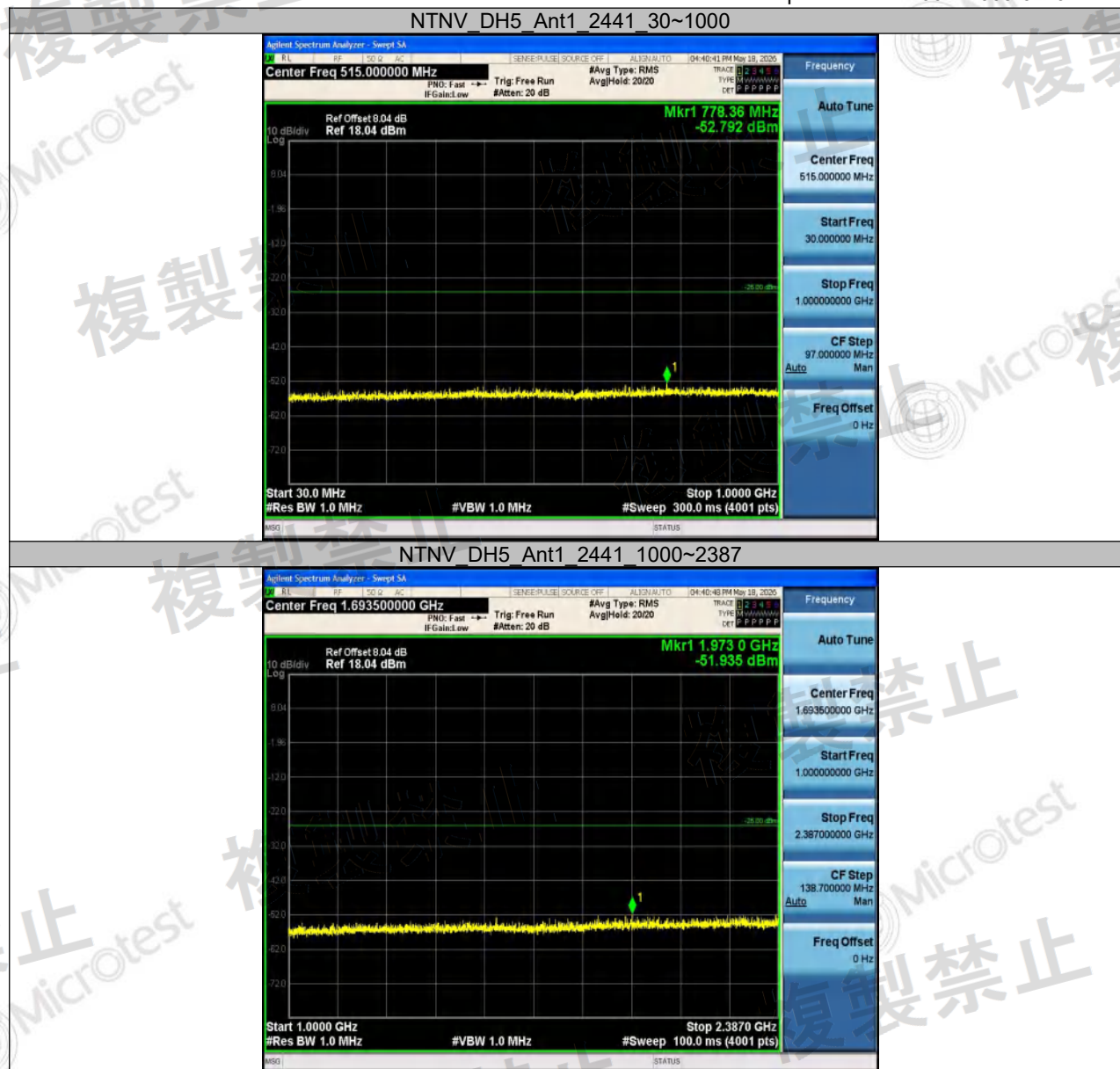


NTNV_DH5_Ant2_2402_2496.5~13000



TEST REPORT

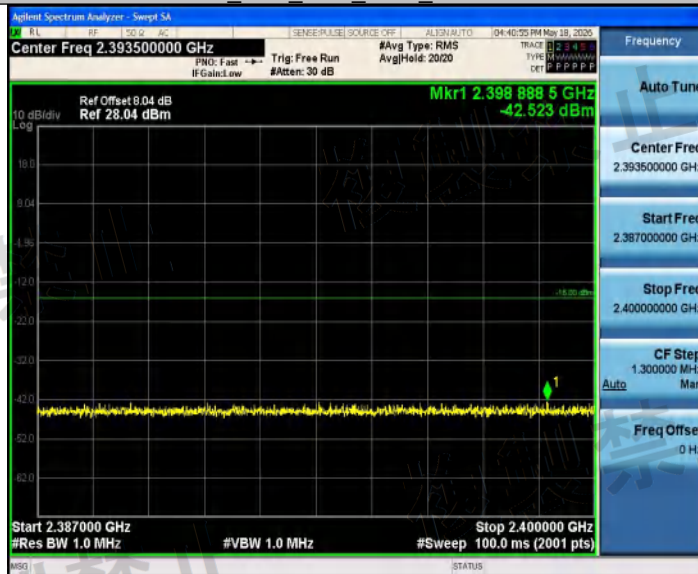
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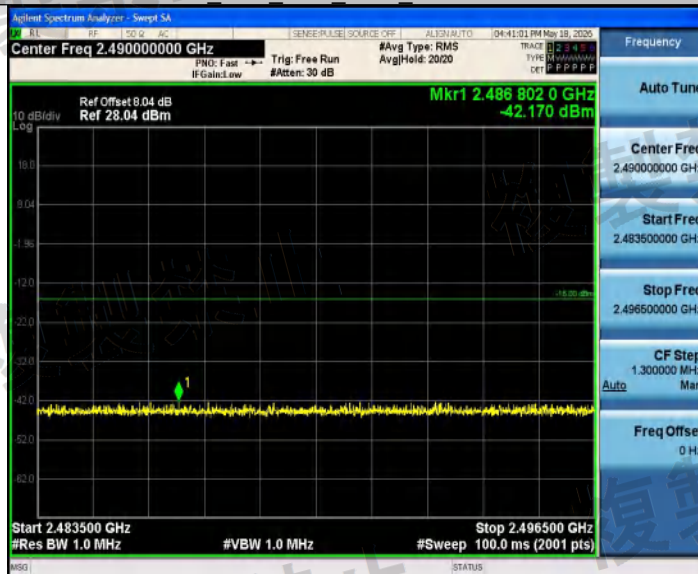
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant1_2441_2387~2400

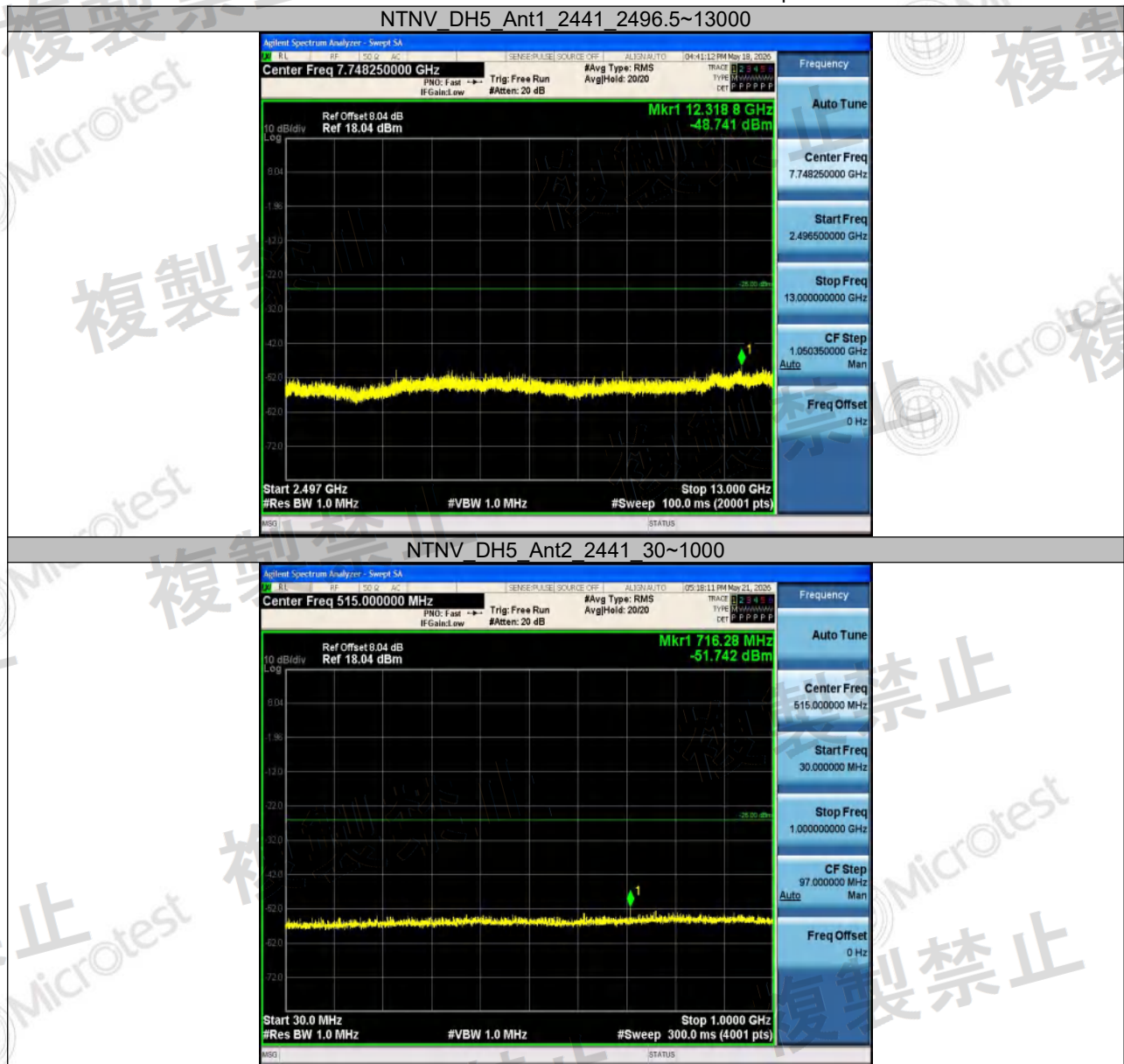


NTNV DH5_Ant1_2441_2483.5~2496.5



TEST REPORT

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TEST REPORT

Report No.: MTI260421009-0116E1

NTNV DH5_Ant2_2441 1000~2387



NTNV DH5_Ant2_2441 2387~2400



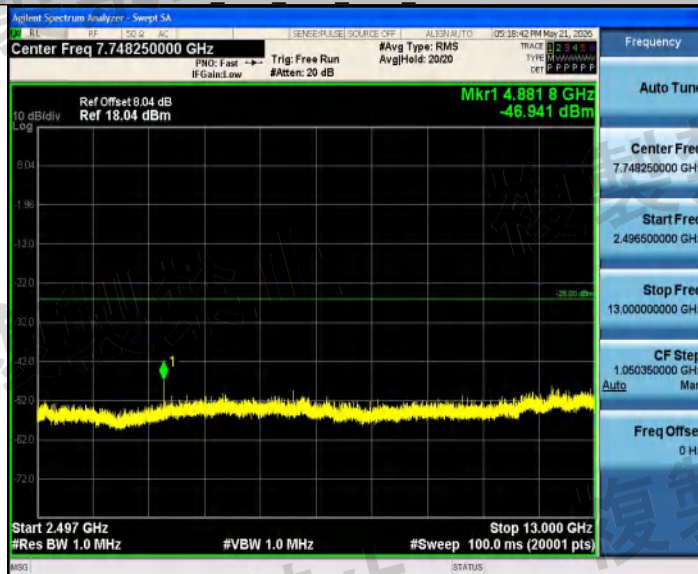
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_DH5_Ant2_2441_2483.5~2496.5

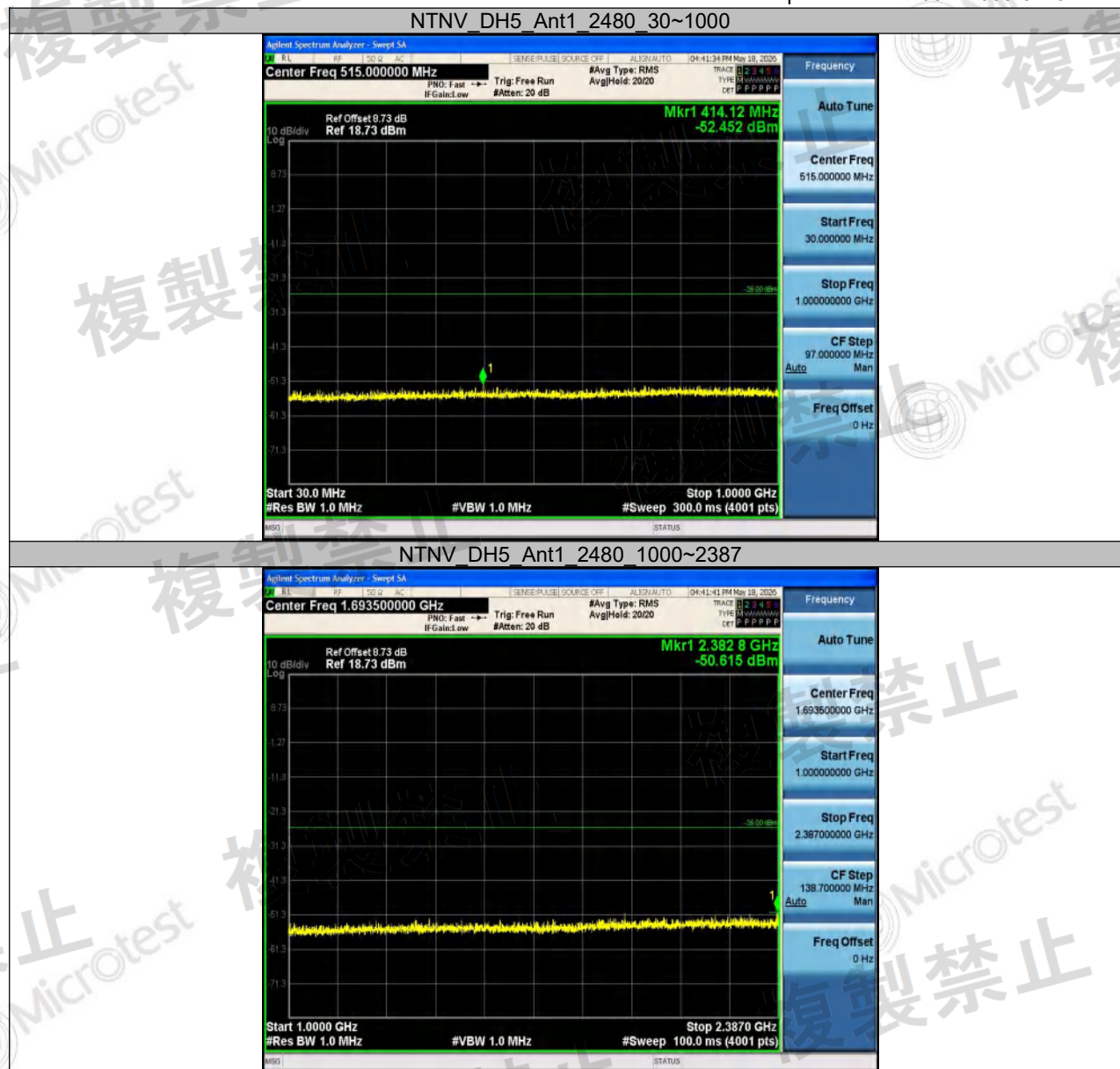


NTNV_DH5_Ant2_2441_2496.5~13000



TEST REPORT

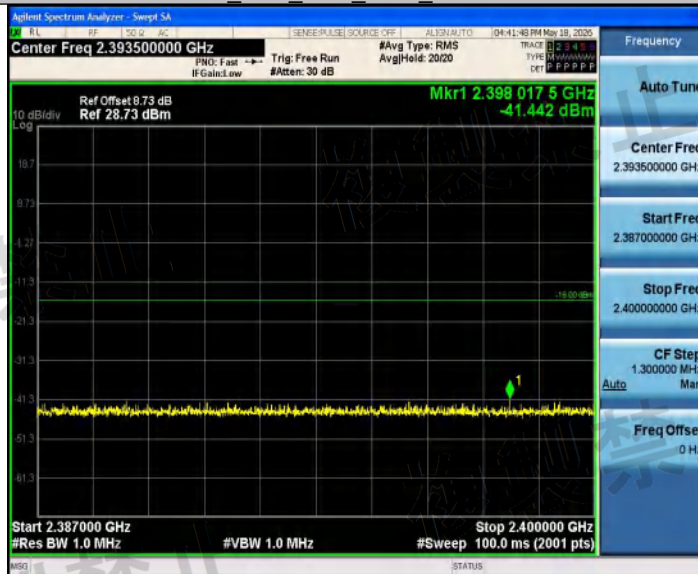
Report No.: MTi260421009-0116E1



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant1_2480 2387~2400



NTNV DH5_Ant1_2480 2483.5~2496.5



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant1_2480 2496.5~13000



NTNV DH5_Ant2_2480 30~1000



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV DH5_Ant2_2480_1000~2387



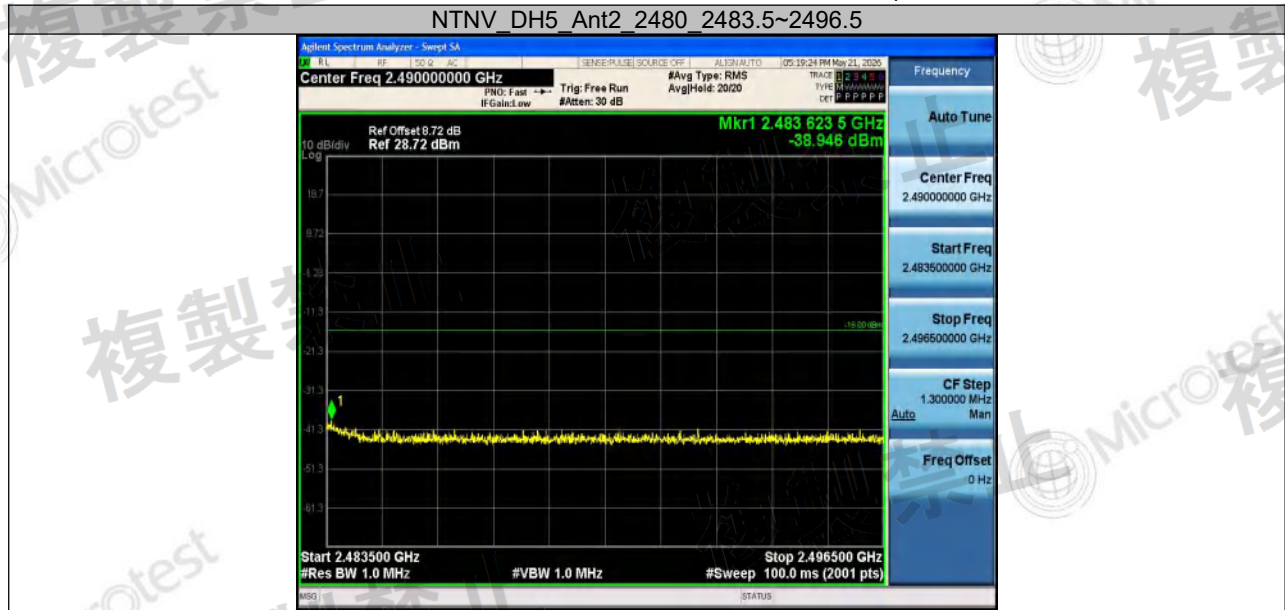
NTNV DH5_Ant2_2480_2387~2400



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_DH5_Ant2_2480_2483.5~2496.5

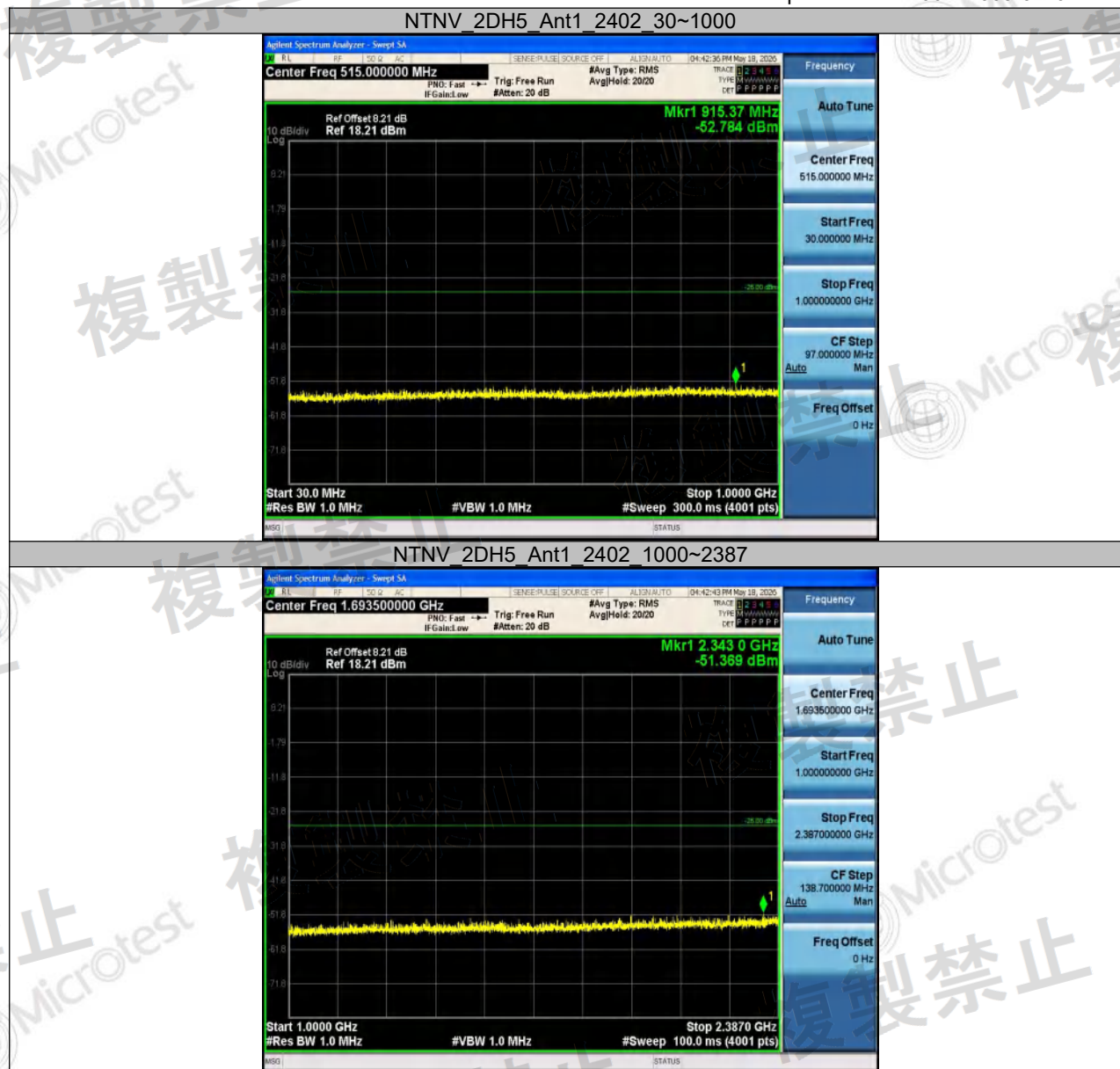


NTNV_DH5_Ant2_2480_2496.5~13000



TEST REPORT

Report No.: MTi260421009-0116E1



TEST REPORT

Report No.: MTI260421009-0116E1

NTNV 2DH5 Ant1 2402 2387~2400



NTNV 2DH5 Ant1 2402 2483.5~2496.5



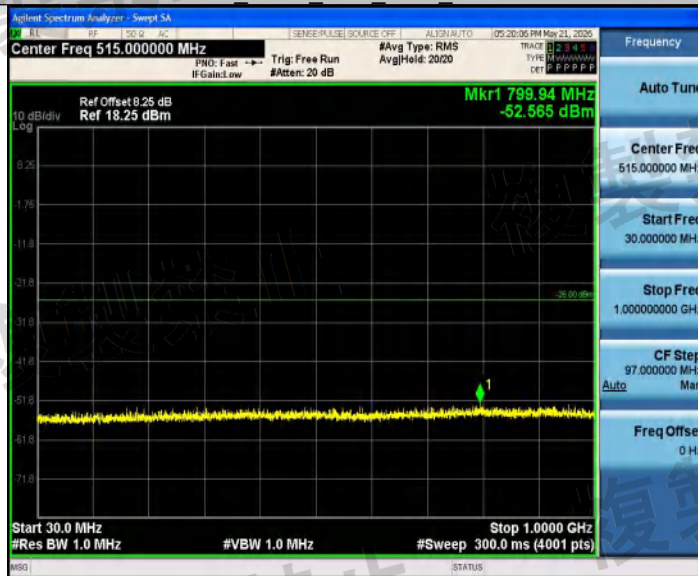
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2402 2496.5~13000



NTNV 2DH5 Ant2 2402 30~1000



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_2DH5_Ant2_2402_1000~2387



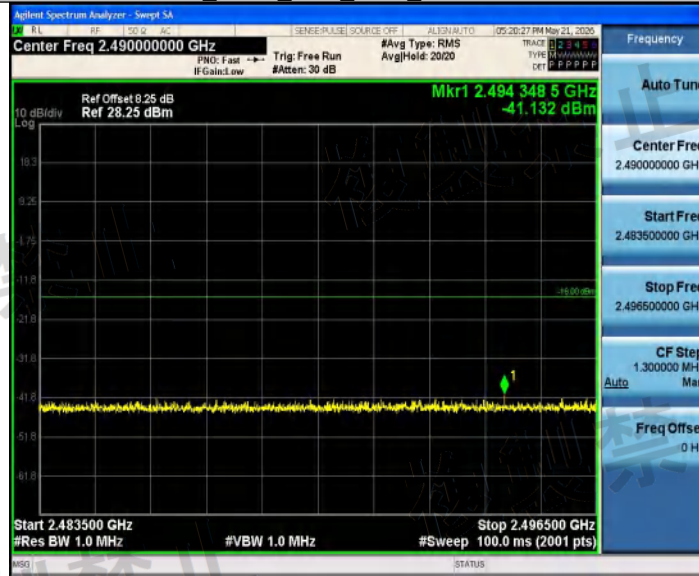
NTNV_2DH5_Ant2_2402_2387~2400



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant2 2402 2483.5~2496.5



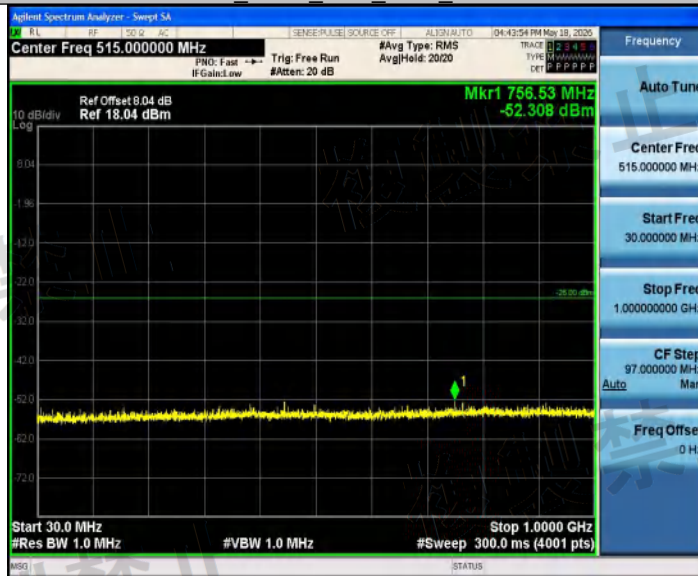
NTNV 2DH5 Ant2 2402 2496.5~13000



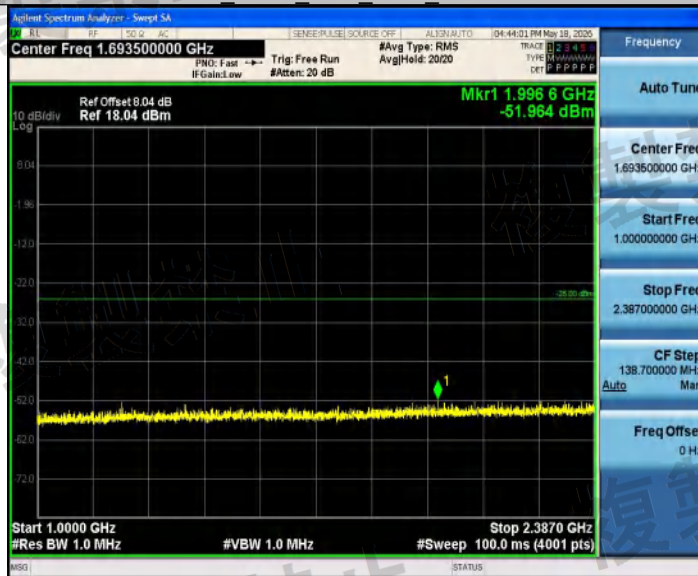
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2441 30~1000



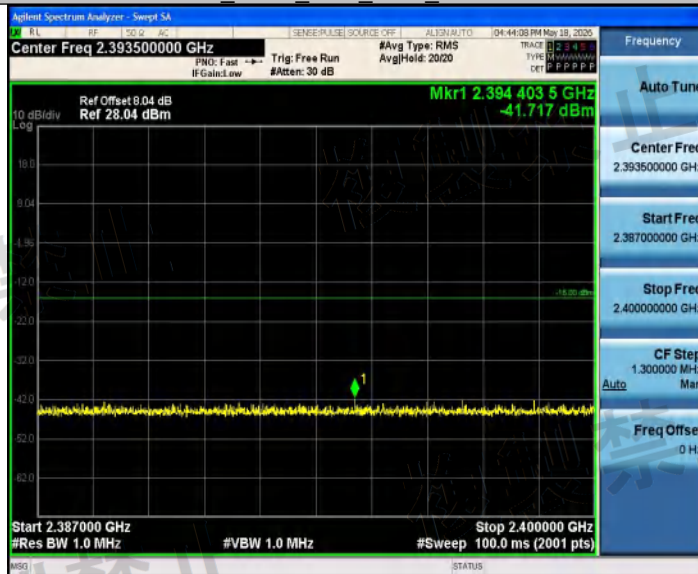
NTNV 2DH5 Ant1 2441 1000~2387



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2441 2387~2400



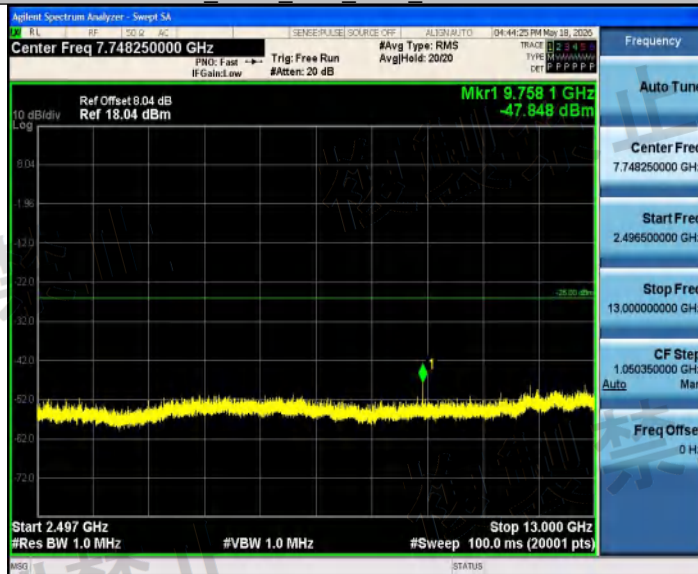
NTNV 2DH5 Ant1 2441 2483.5~2496.5



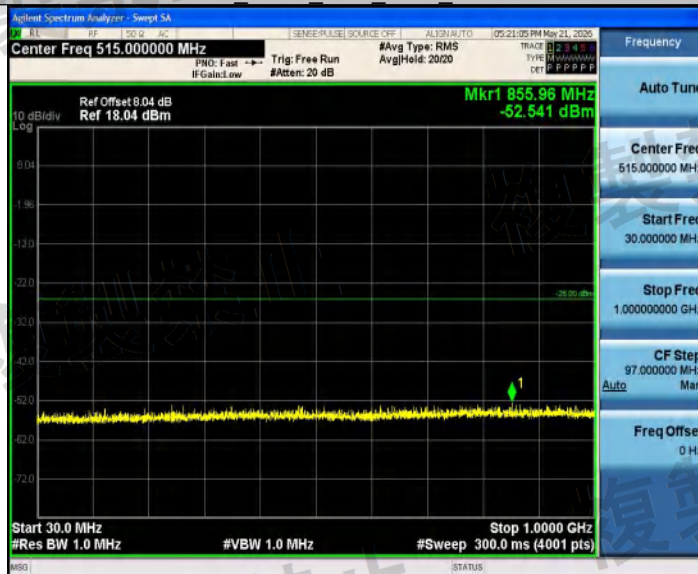
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2441 2496.5~13000



NTNV 2DH5 Ant2 2441 30~1000



TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant2 2441 1000~2387



NTNV 2DH5 Ant2 2441 2387~2400



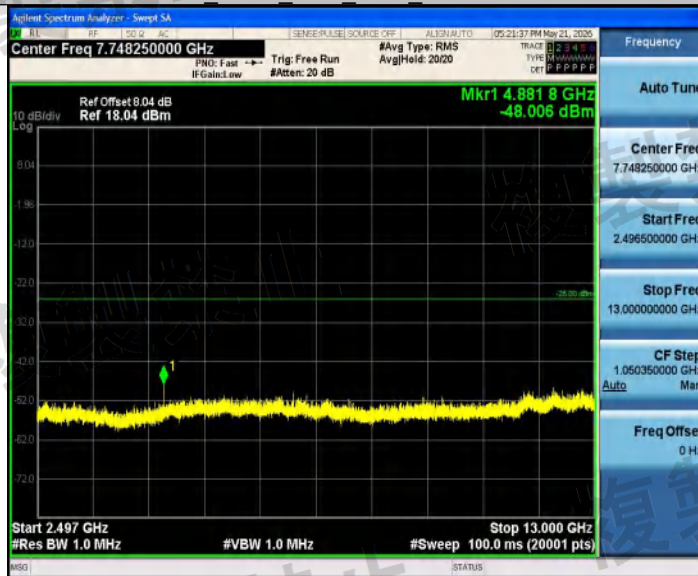
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant2 2441 2483.5~2496.5

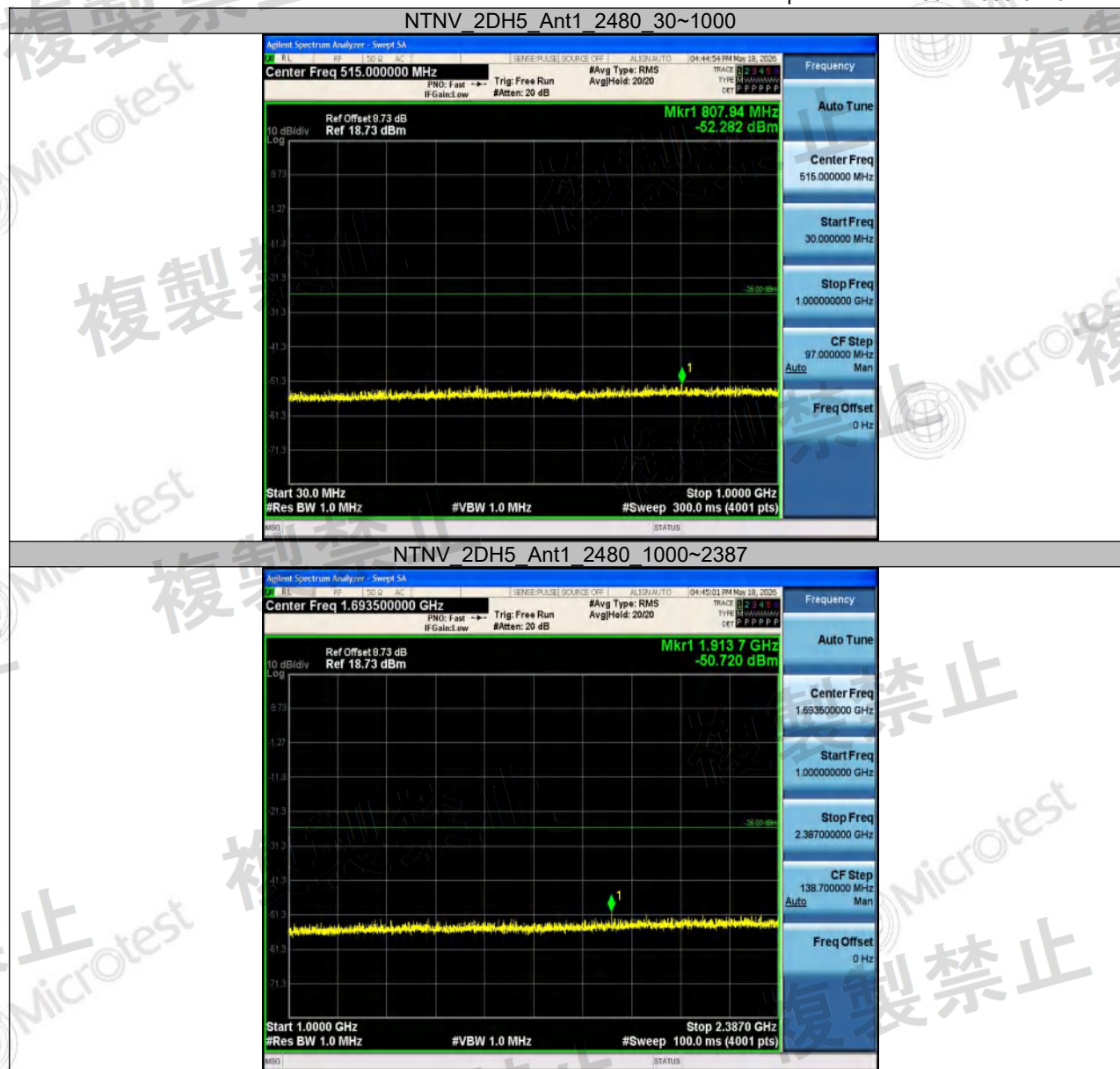


NTNV 2DH5 Ant2 2441 2496.5~13000



TEST REPORT

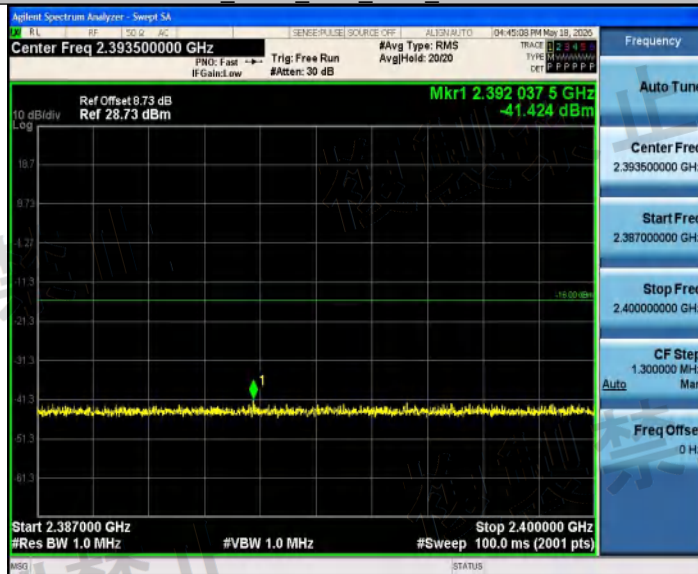
Report No.: MTi260421009-0116E1



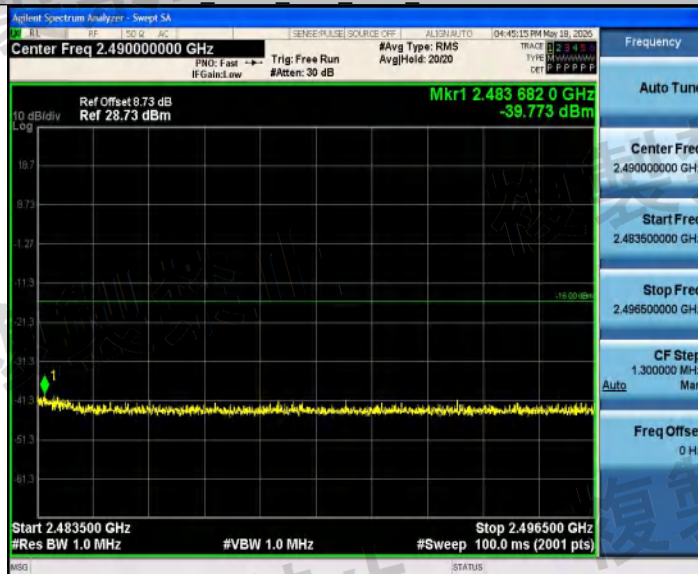
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2480 2387~2400



NTNV 2DH5 Ant1 2480 2483.5~2496.5



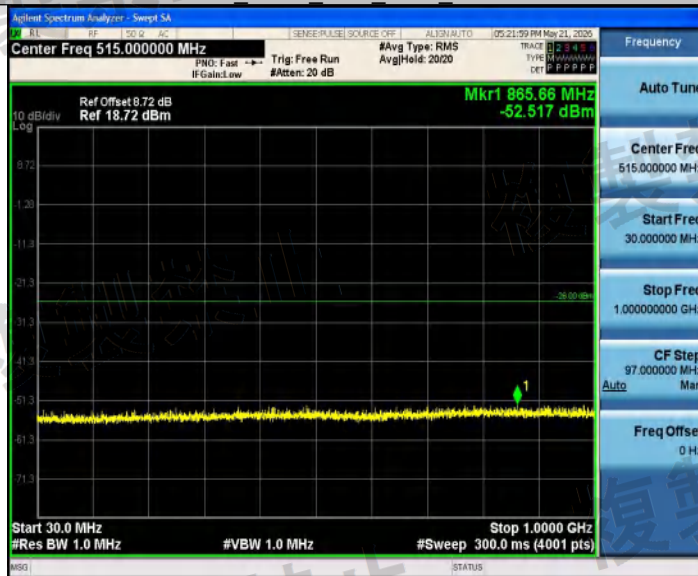
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant1 2480 2496.5~13000



NTNV 2DH5 Ant2 2480 30~1000



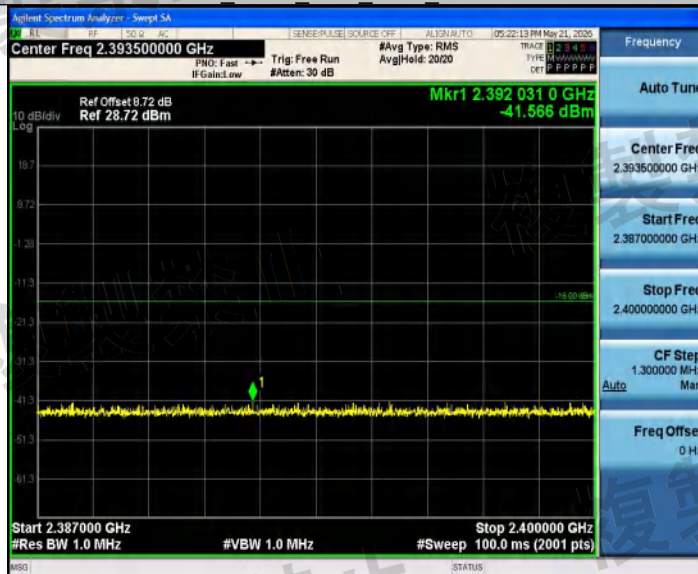
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant2 2480 1000~2387



NTNV 2DH5 Ant2 2480 2387~2400



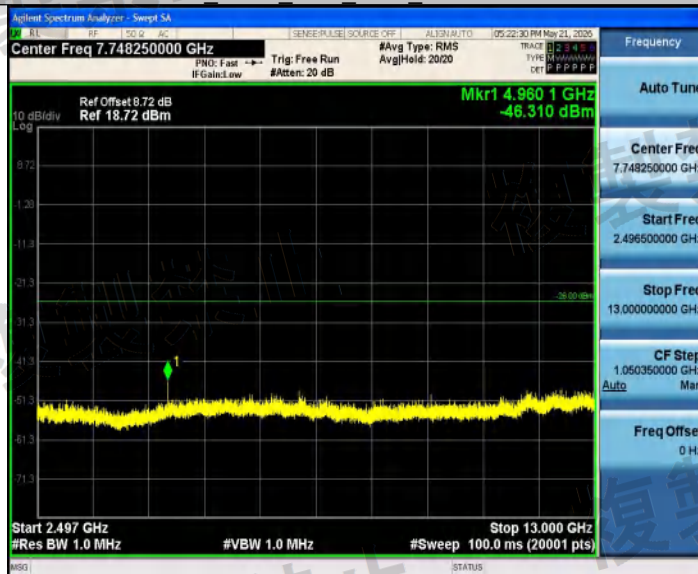
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV 2DH5 Ant2 2480 2483.5~2496.5



NTNV 2DH5 Ant2 2480 2496.5~13000



TEST REPORT

Report No.: MTi260421009-0116E1

Appendix F: Secondary radiated emissions

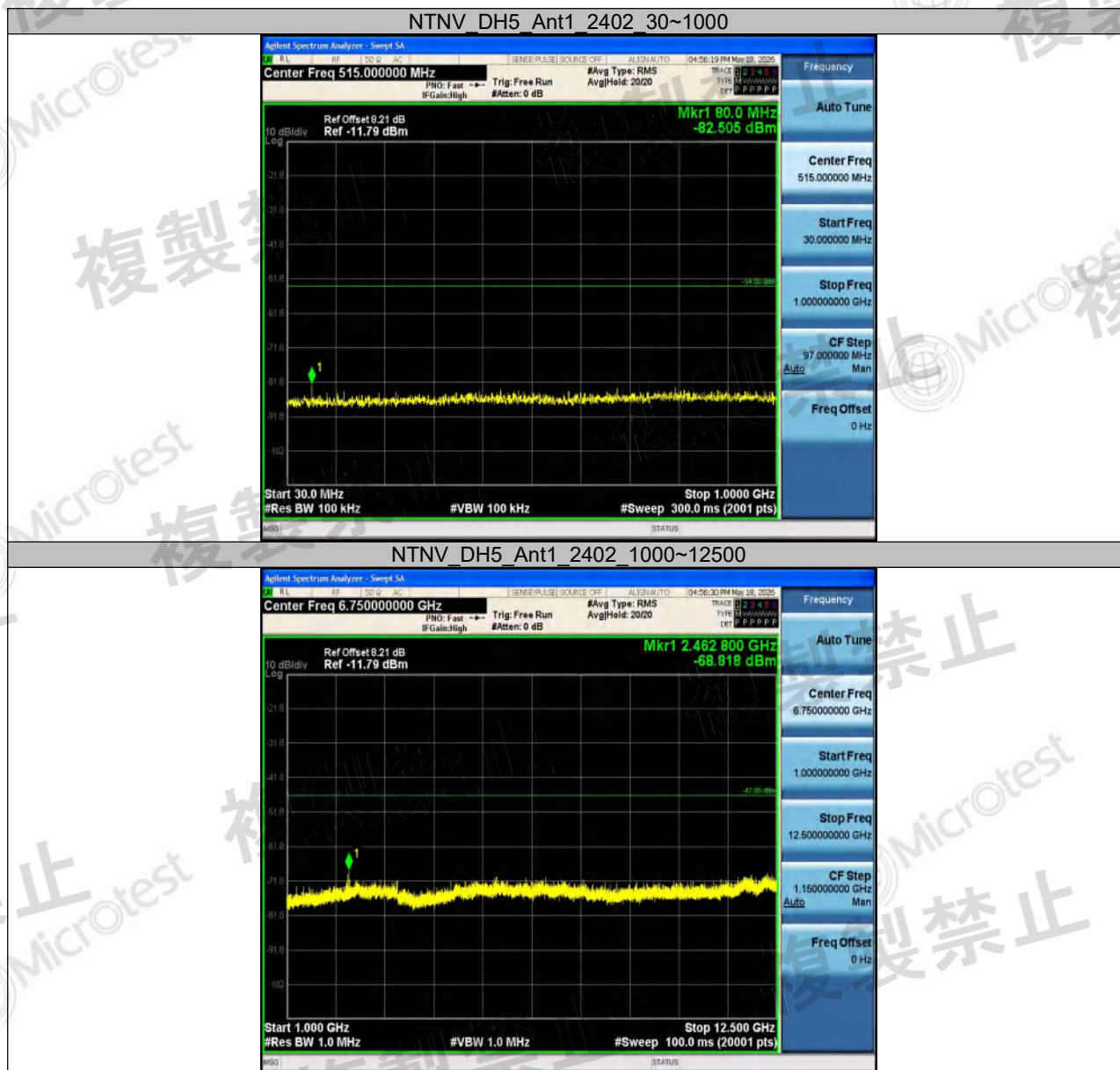
Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-82.51	≤-54	0.00561	≤4	PASS
				1000~12500	-68.82	≤-47	0.13122	≤20	PASS
		Ant2	2402	30~1000	-82.66	≤-54	0.00542	≤4	PASS
				1000~12500	-57.51	≤-47	1.77419	≤20	PASS
		Ant1	2441	30~1000	-83.42	≤-54	0.00455	≤4	PASS
				1000~12500	-57.45	≤-47	1.79887	≤20	PASS
		Ant2	2441	30~1000	-82.19	≤-54	0.00604	≤4	PASS
				1000~12500	-58.46	≤-47	1.42561	≤20	PASS
		Ant1	2480	30~1000	-82.66	≤-54	0.00542	≤4	PASS
				1000~12500	-64.33	≤-47	0.36898	≤20	PASS
		Ant2	2480	30~1000	-81.95	≤-54	0.00638	≤4	PASS
				1000~12500	-57.03	≤-47	1.98153	≤20	PASS
	2DH5	Ant1	2402	30~1000	-82.51	≤-54	0.00561	≤4	PASS
				1000~12500	-69.66	≤-47	0.10814	≤20	PASS
		Ant2	2402	30~1000	-83.4	≤-54	0.00457	≤4	PASS
				1000~12500	-62.39	≤-47	0.57677	≤20	PASS
		Ant1	2441	30~1000	-83.23	≤-54	0.00475	≤4	PASS
				1000~12500	-66.57	≤-47	0.22029	≤20	PASS
		Ant2	2441	30~1000	-83.03	≤-54	0.00498	≤4	PASS
				1000~12500	-66.83	≤-47	0.20749	≤20	PASS
		Ant1	2480	30~1000	-82.72	≤-54	0.00535	≤4	PASS
				1000~12500	-68.18	≤-47	0.15205	≤20	PASS
		Ant2	2480	30~1000	-82.57	≤-54	0.00553	≤4	PASS
				1000~12500	-57.97	≤-47	2.00909	≤20	PASS

TEST REPORT

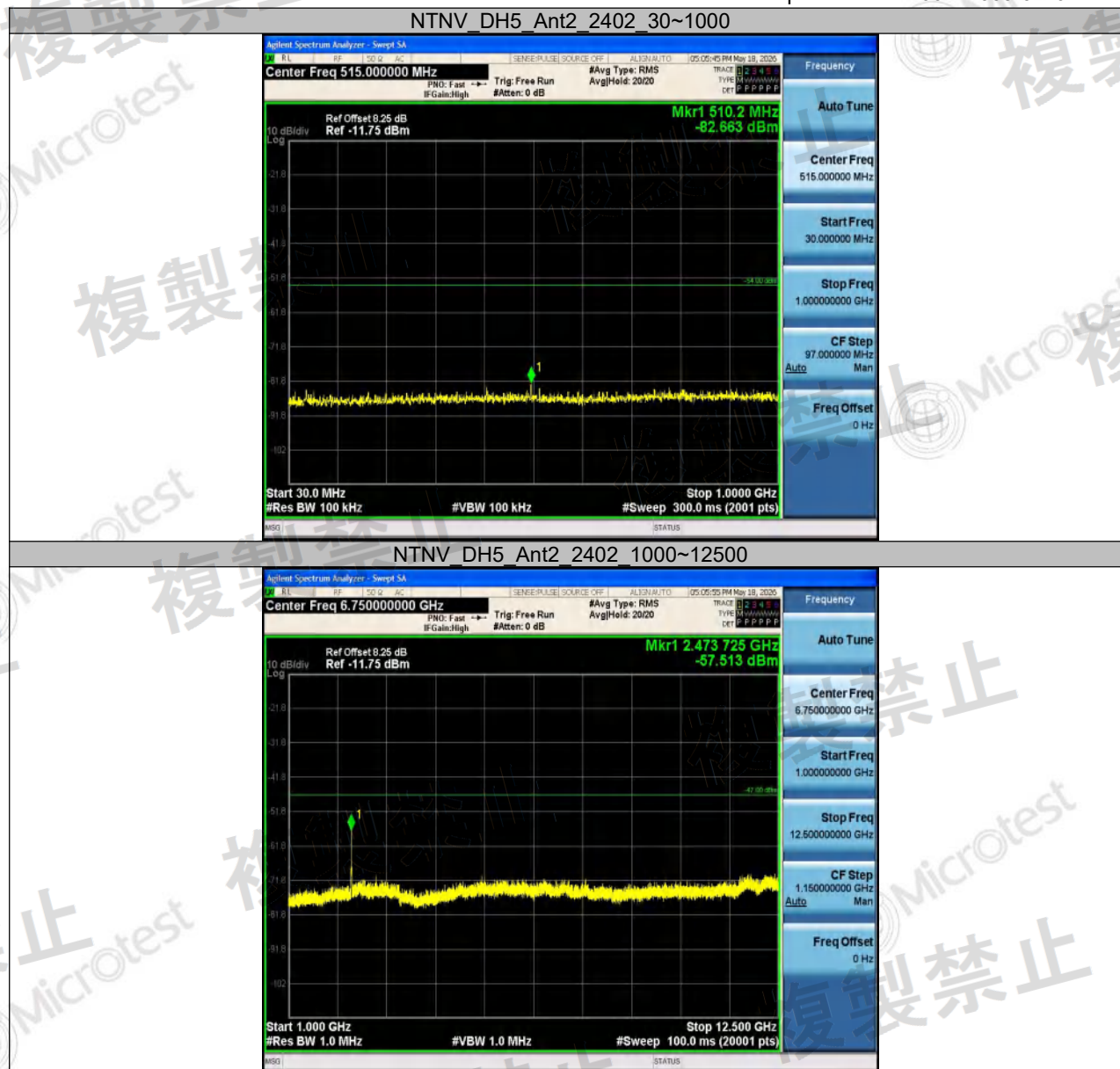
Report No.: MTi260421009-0116E1

Test Graphs



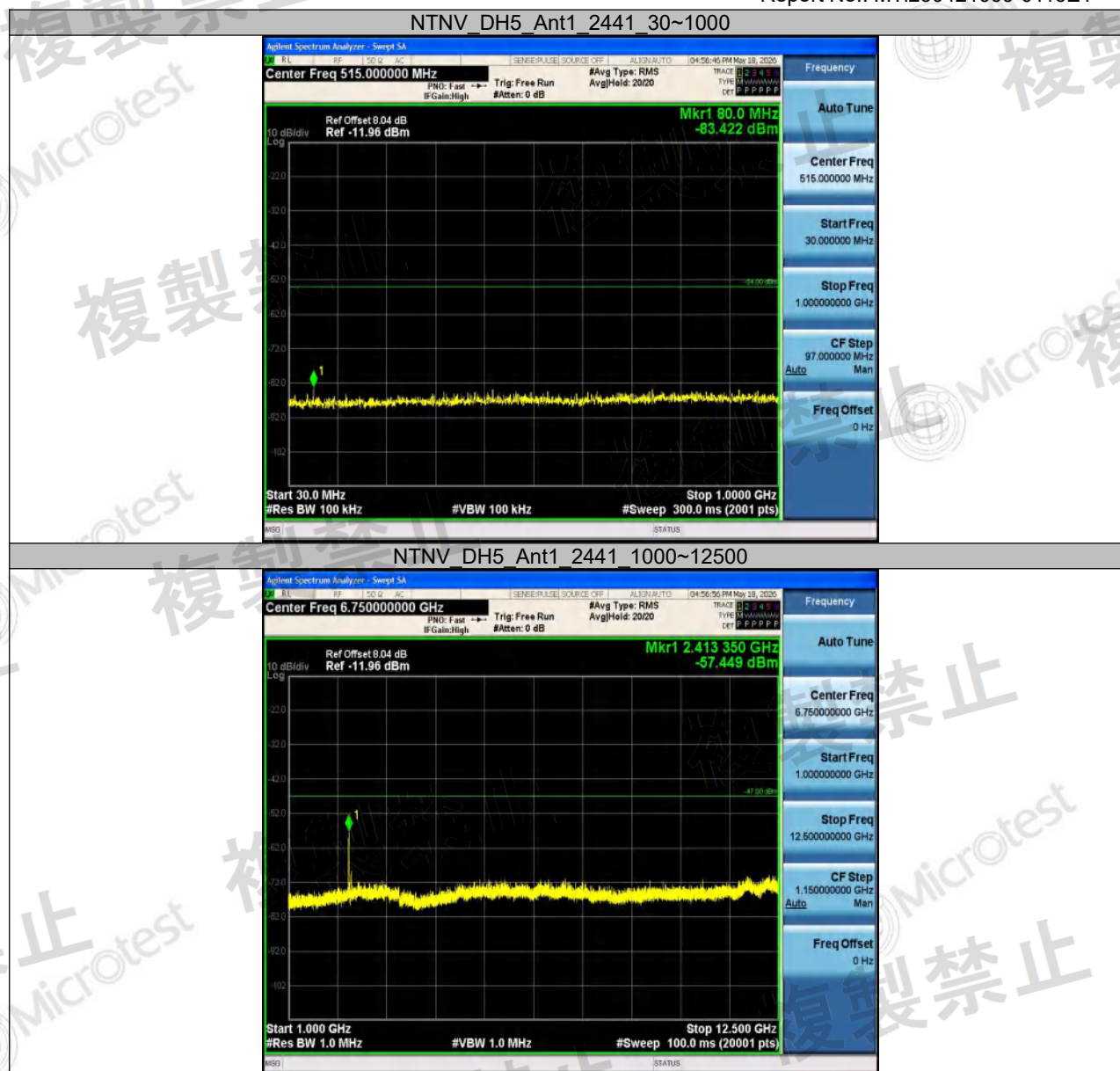
TEST REPORT

Report No.: MTi260421009-0116E1



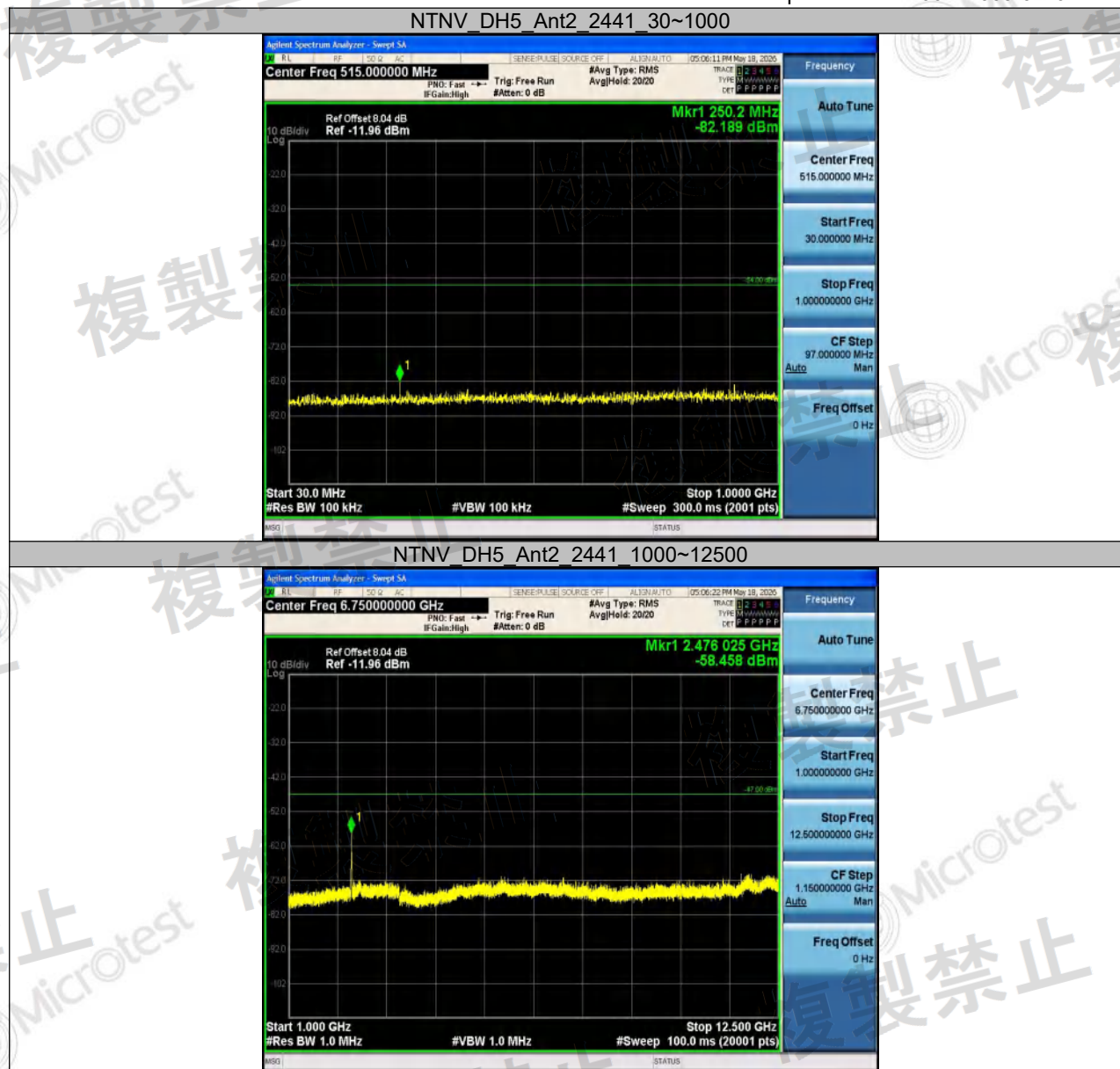
TEST REPORT

Report No.: MTi260421009-0116E1



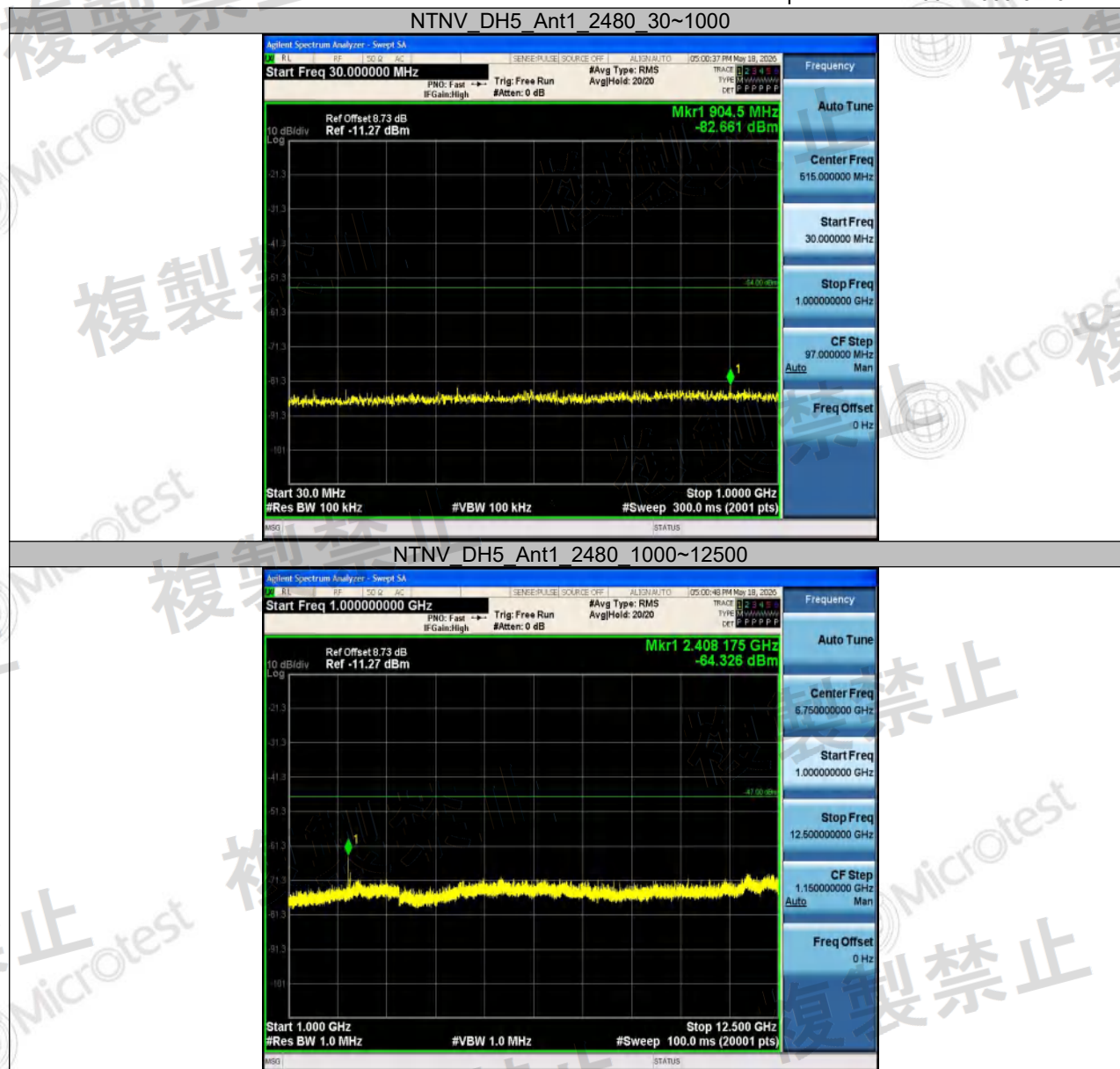
TEST REPORT

Report No.: MTi260421009-0116E1



TEST REPORT

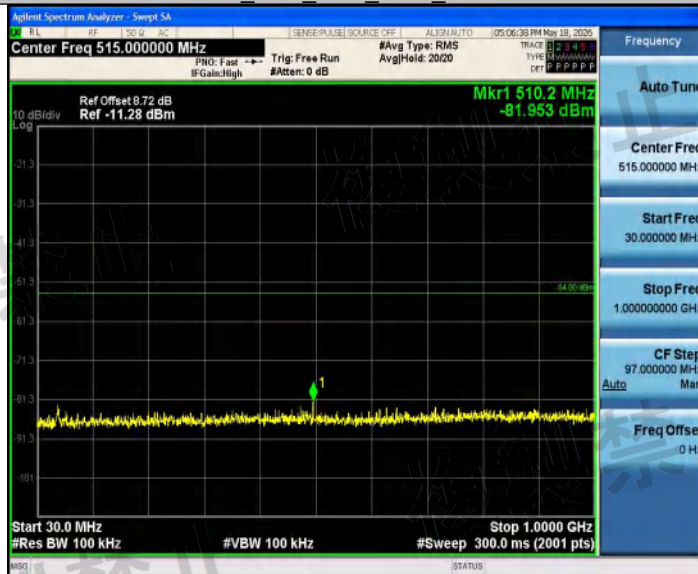
Report No.: MTi260421009-0116E1



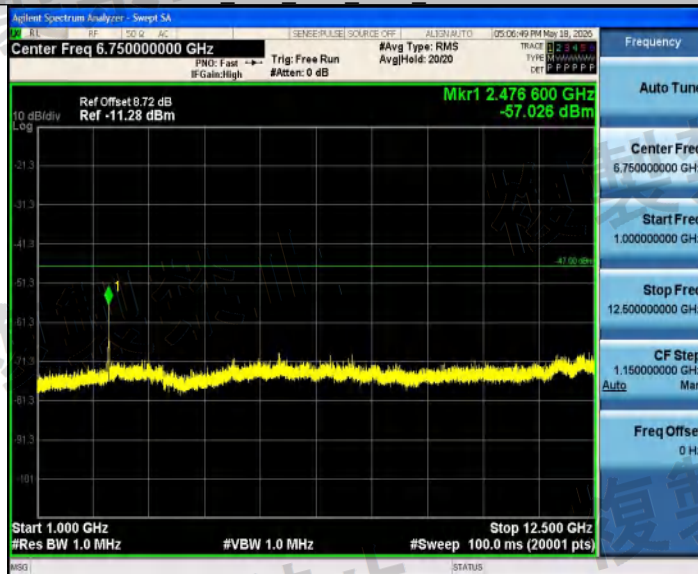
TEST REPORT

Report No.: MTi260421009-0116E1

NTNV_DH5_Ant2_2480_30~1000

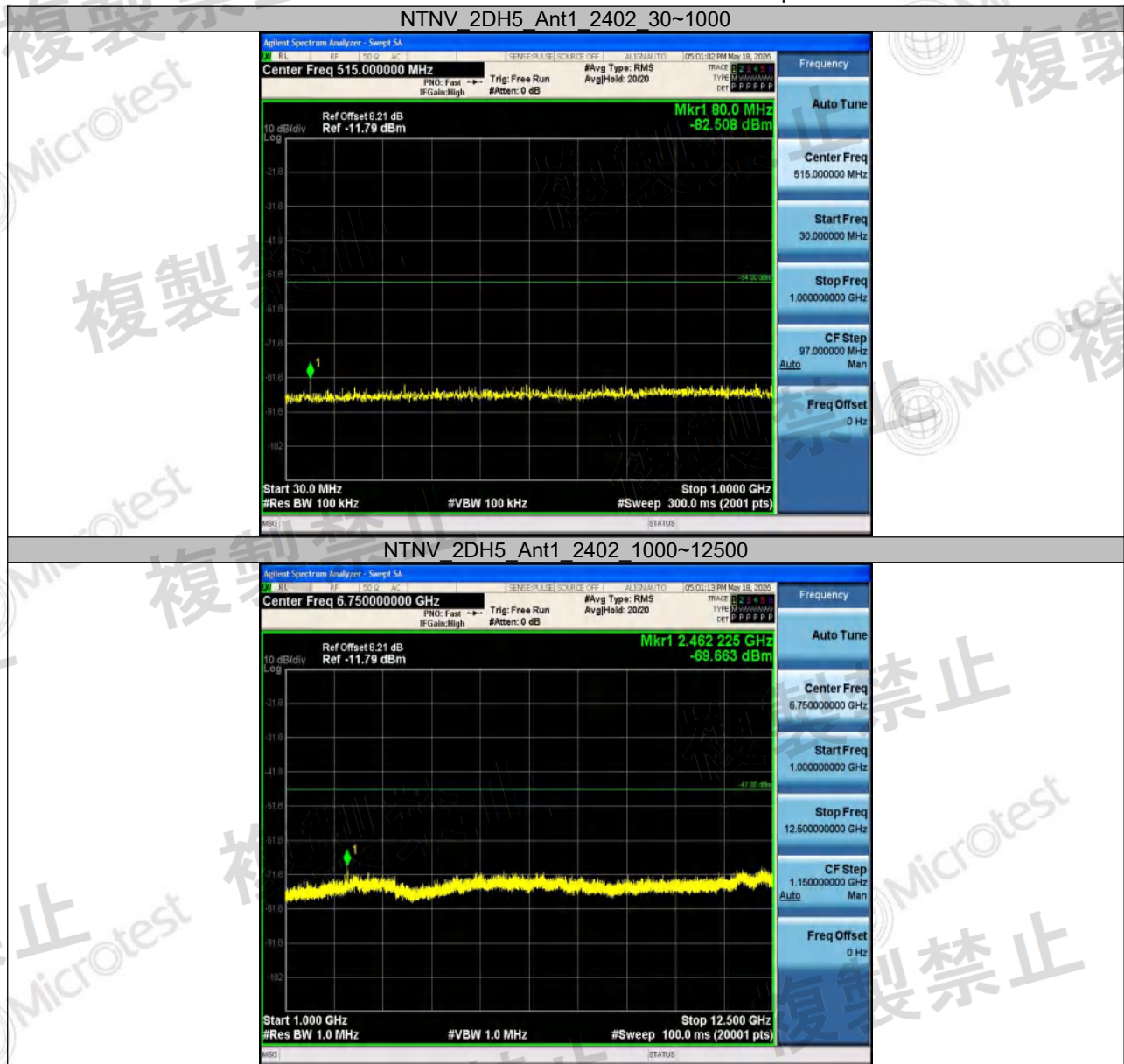


NTNV_DH5_Ant2_2480_1000~12500



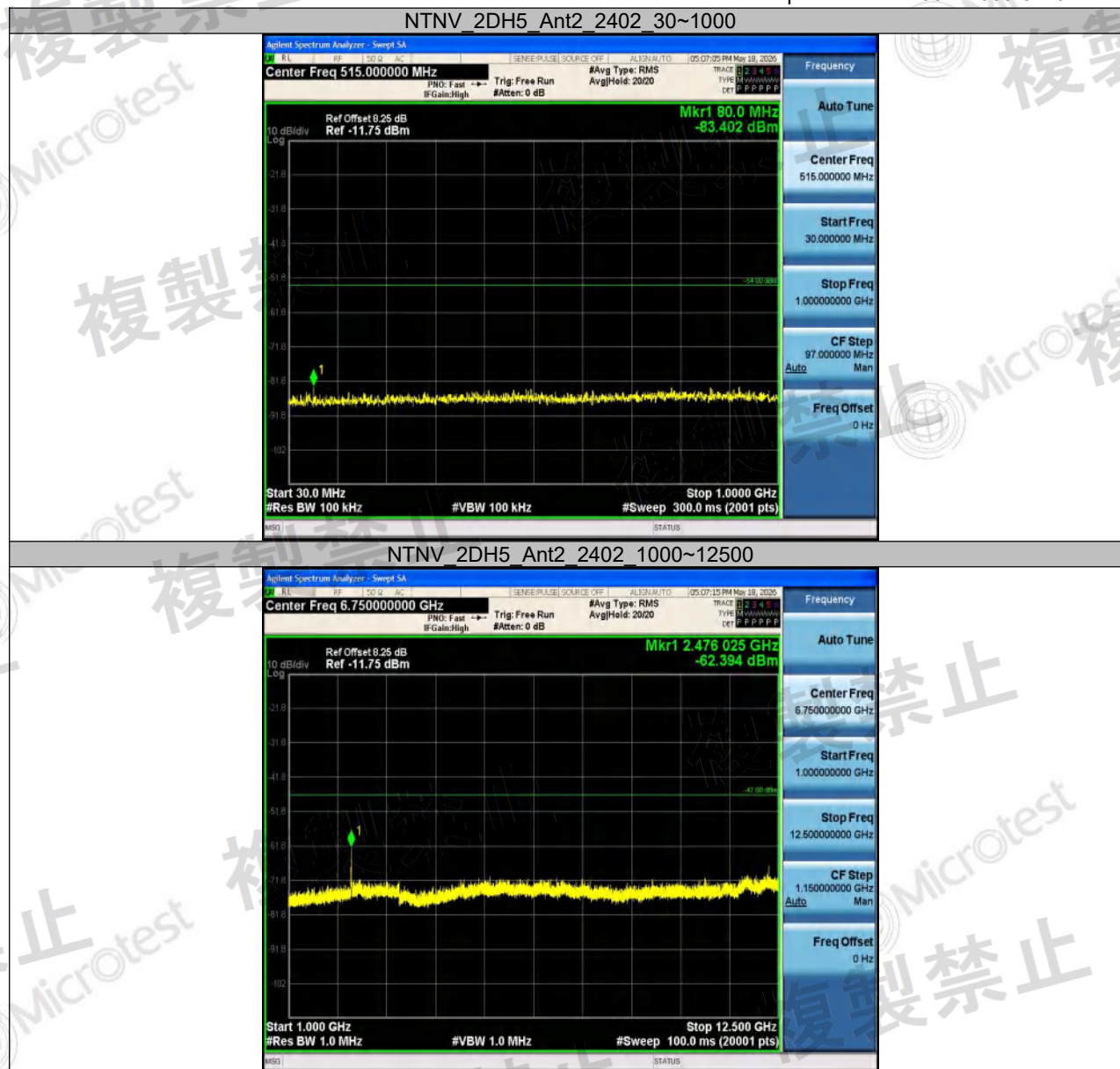
TEST REPORT

Report No.: MTi260421009-0116E1



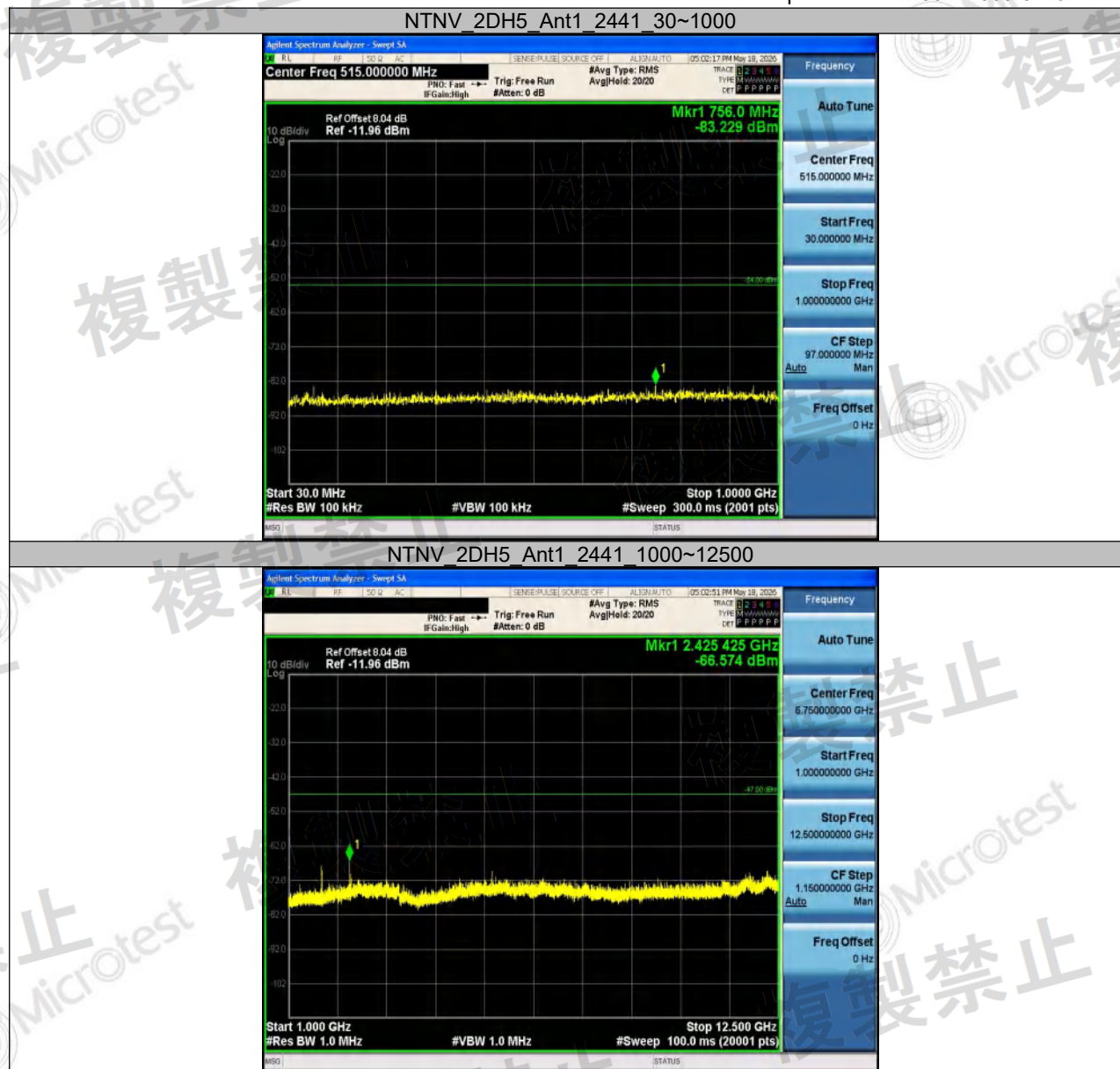
TEST REPORT

Report No.: MTi260421009-0116E1



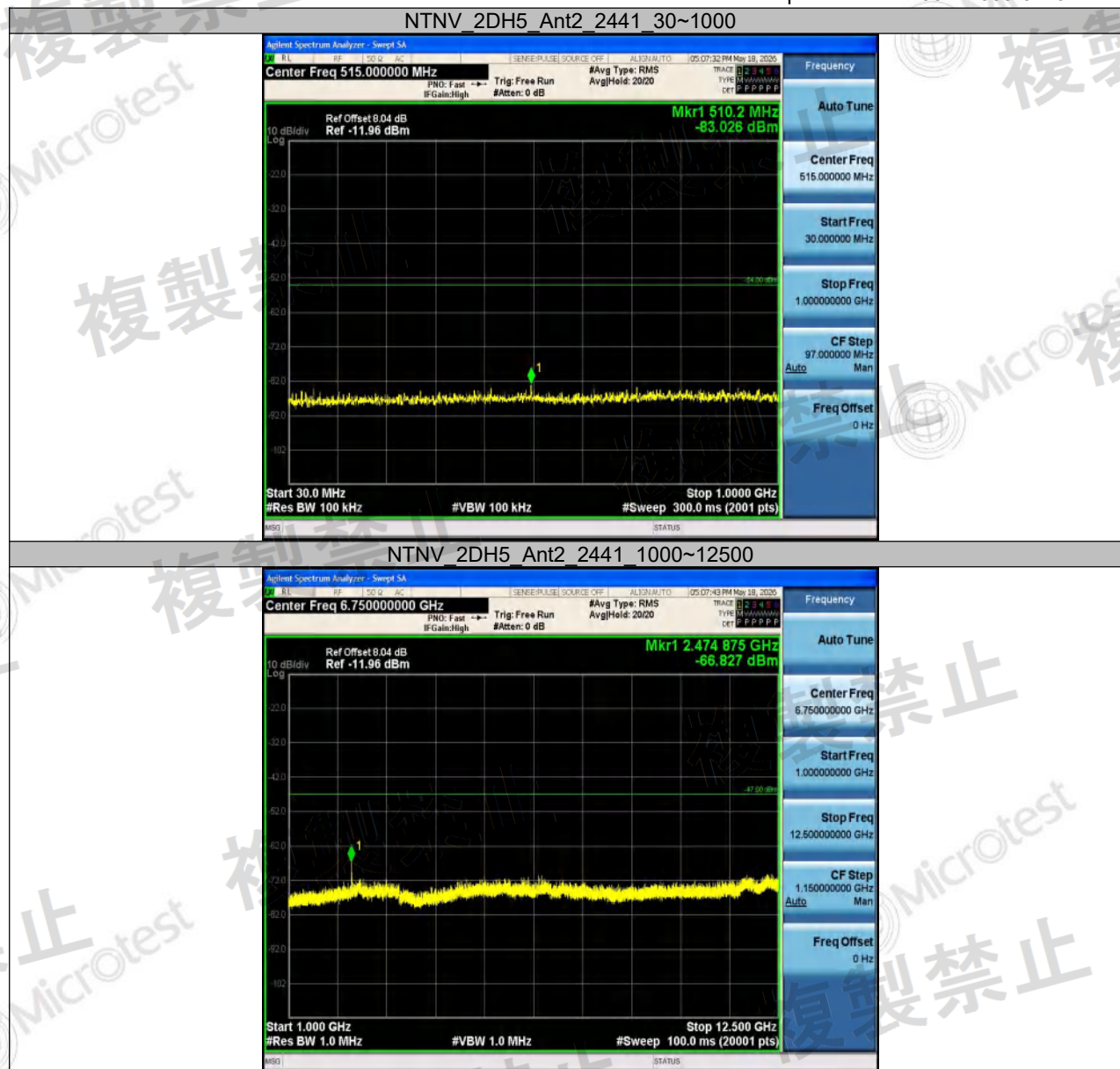
TEST REPORT

Report No.: MTI260421009-0116E1



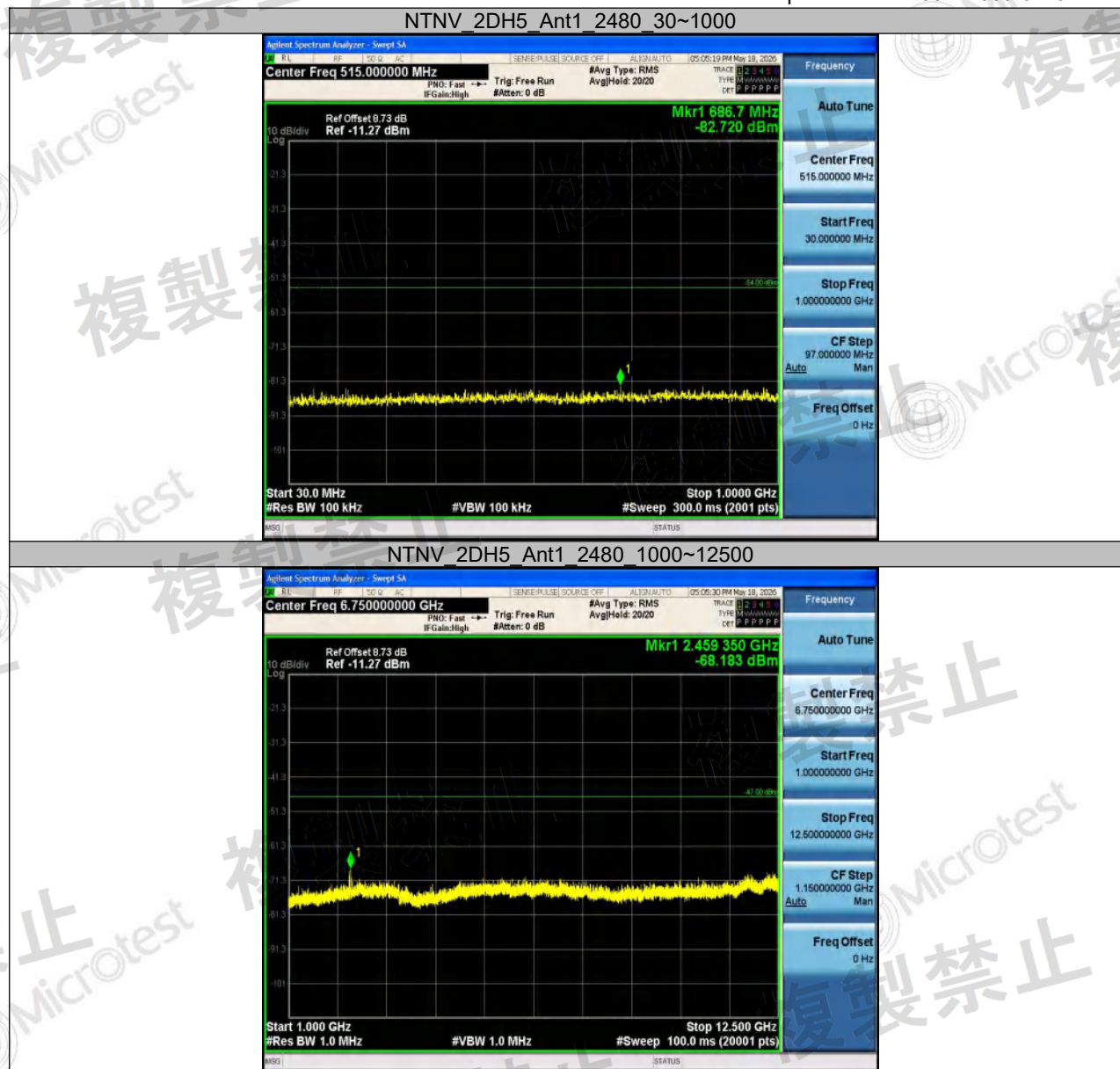
TEST REPORT

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TEST REPORT

Report No.: MTi260421009-0116E1



TEST REPORT

Report No.: MTi260421009-0116E1



TEST REPORT

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Appendix G: Hopping frequency holding time

Test Result

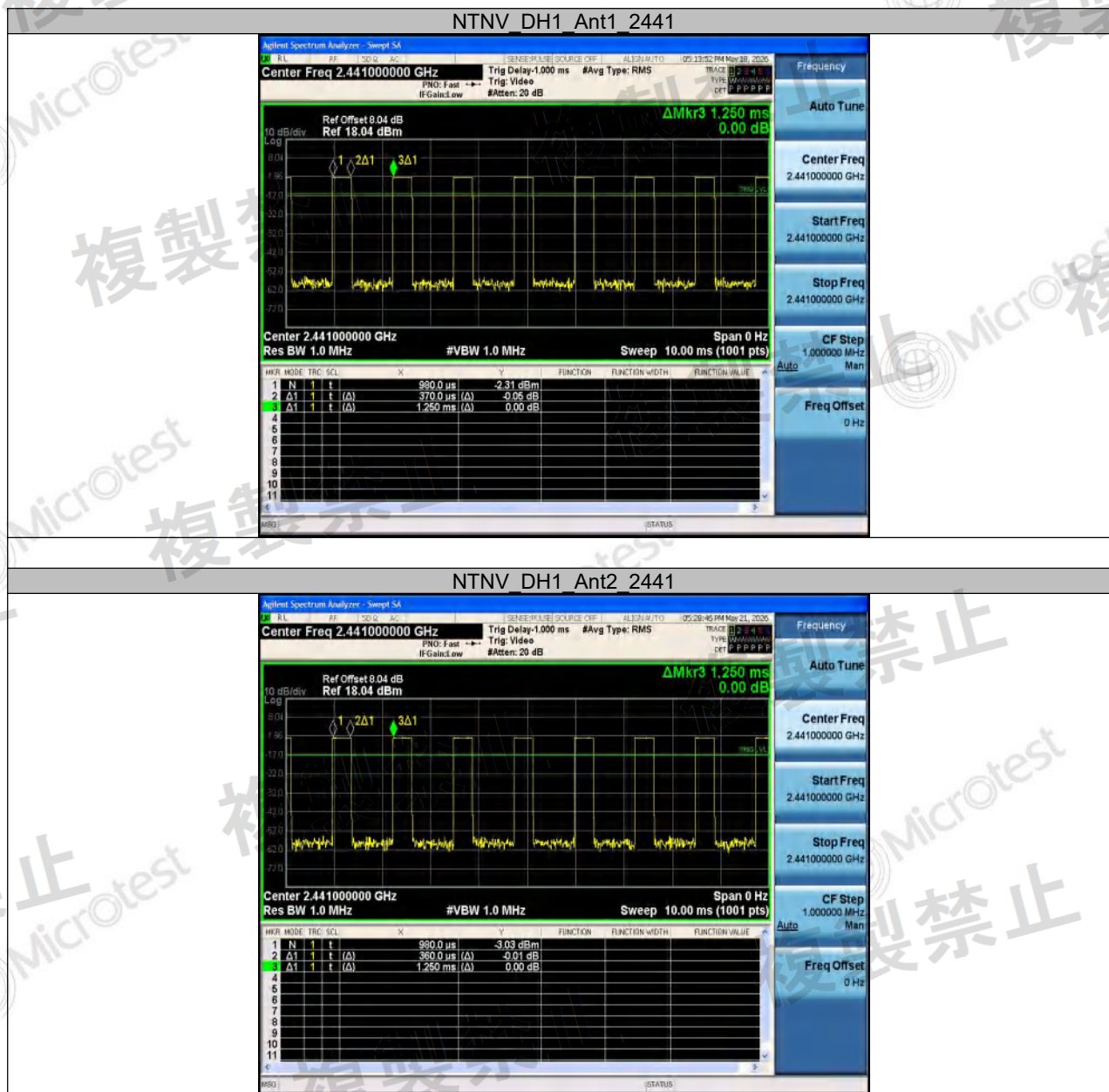
Test Condition	Test Mode	Antenna	Freq. [MHz]	T_ON [ms]	Period [ms]	Result [s]	Limit [s]	Verdict
NTNV	DH1	Ant1	2441	0.37	1.25	0.106	≤0.4	PASS
		Ant2	2441	0.36	1.25	0.103	≤0.4	PASS
	DH3	Ant1	2441	1.62	2.50	0.233	≤0.4	PASS
		Ant2	2441	1.62	2.50	0.233	≤0.4	PASS
	DH5	Ant1	2441	2.86	3.75	0.274	≤0.4	PASS
		Ant2	2441	2.87	3.75	0.275	≤0.4	PASS
	2DH1	Ant1	2441	0.37	1.25	0.106	≤0.4	PASS
		Ant2	2441	0.37	1.25	0.106	≤0.4	PASS
	2DH3	Ant1	2441	1.62	2.50	0.233	≤0.4	PASS
		Ant2	2441	1.63	2.50	0.234	≤0.4	PASS
	2DH5	Ant1	2441	2.88	3.75	0.276	≤0.4	PASS
		Ant2	2441	2.87	3.75	0.275	≤0.4	PASS

Note: Result [ms] = 0.4 [s] * Spread ratio * T_ON [ms] / Period [ms] / Number of hopping [79]

TEST REPORT

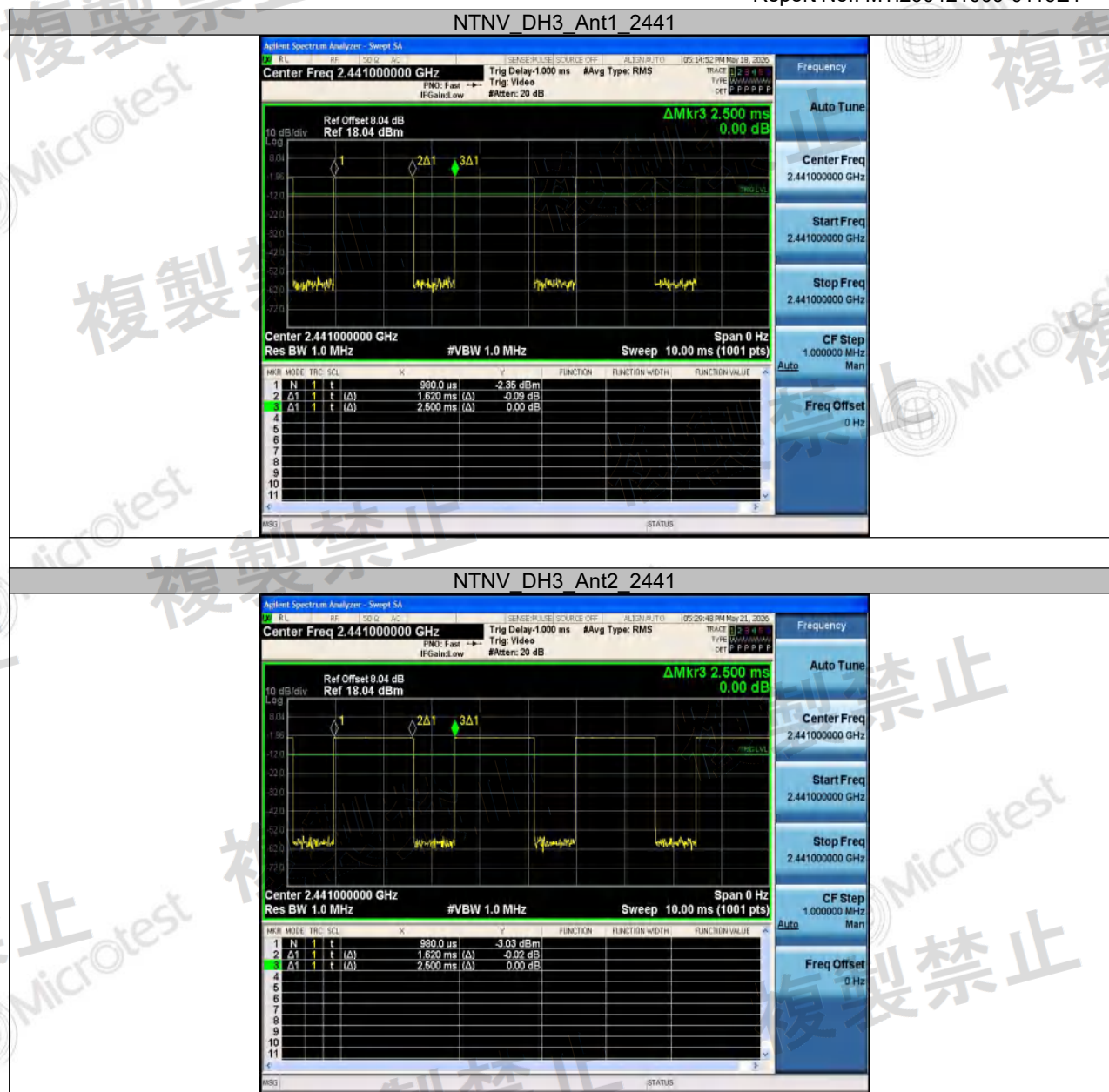
Report No.: MTi260421009-0116E1

Test Graphs



TEST REPORT

Report No.: MTi260421009-0116E1



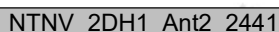
TEST REPORT

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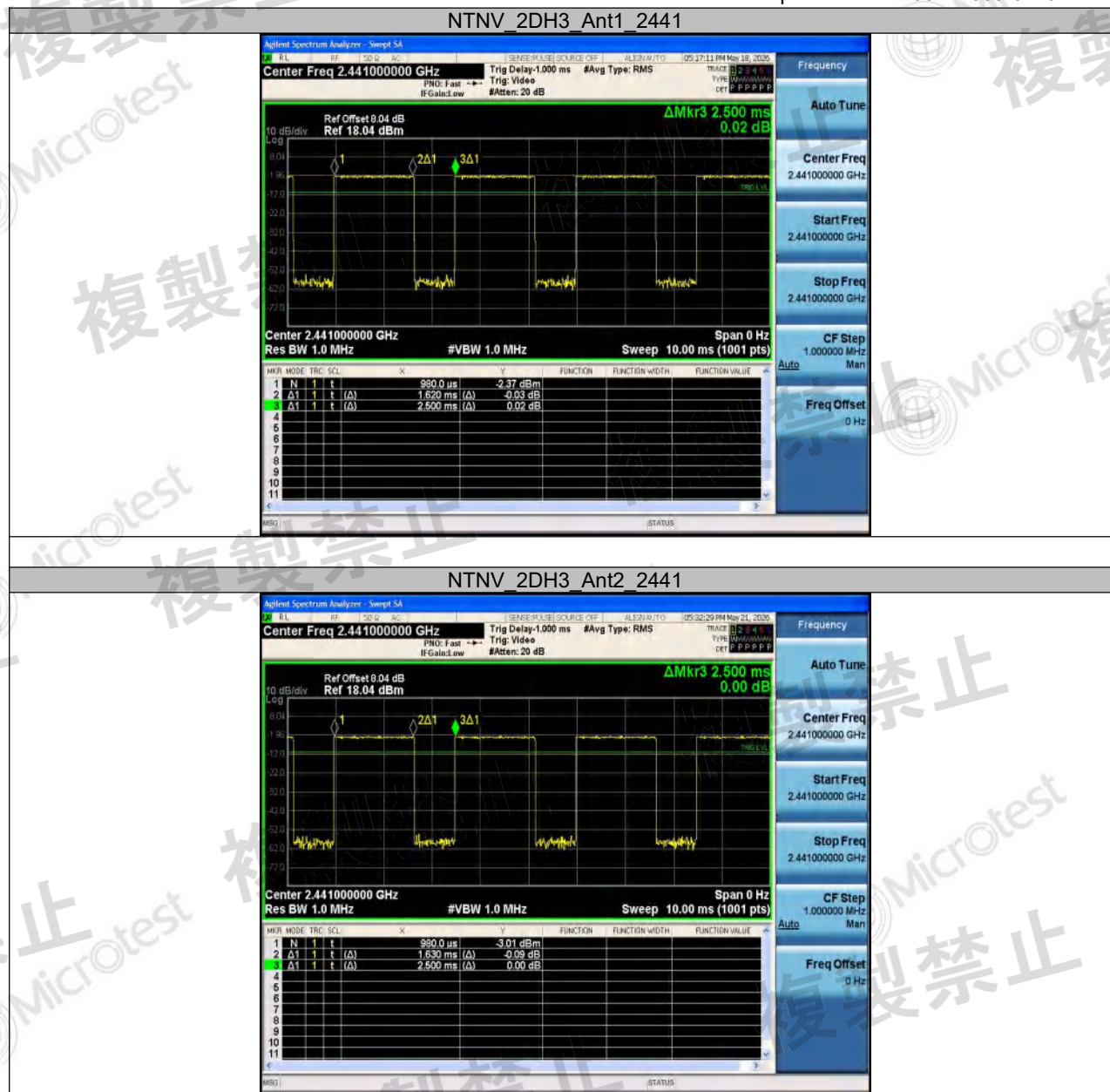


NTNV 2DH1 Ant1 2441



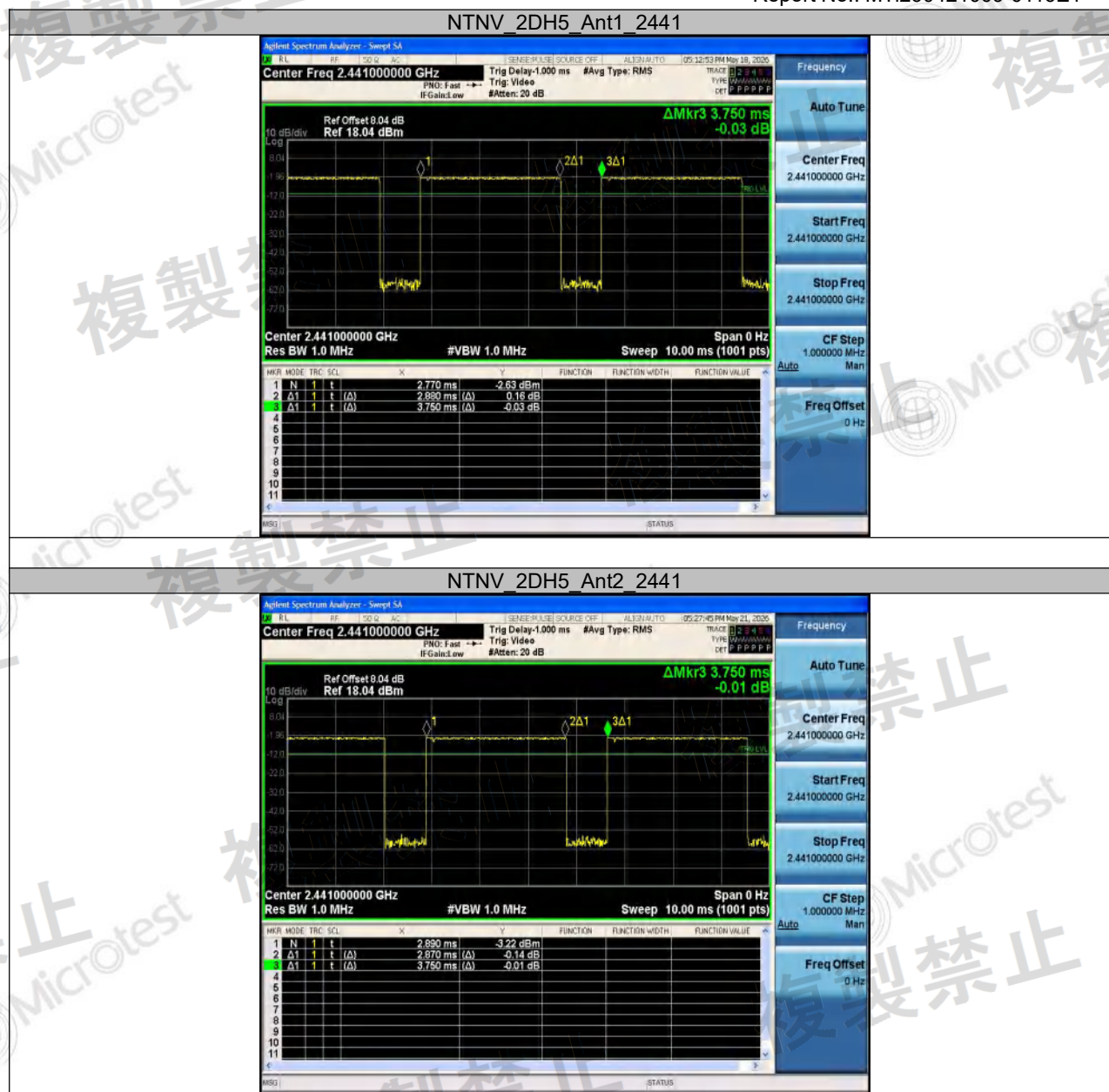
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Statement

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2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
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 *****