

VARIANT MIC TEST REPORT (BLE)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Wireless Earphones
Brand Name:	Xiaomi
Model Name:	M2437E1
Date of tests:	Oct. 15, 2024 ~ Oct. 31, 2024 Dec. 11, 2024 ~ Dec. 31, 2024

The tests have been carried out according to the requirements of the following standard:

☒ ARIB STD-T66, MIC notice 88 Appendix 43

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

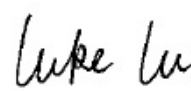
Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Dec. 31, 2024	 Date: Dec. 31, 2024
This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.	

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-241014W001RJ01	Original release	Oct. 31, 2024
PSU-NQN2412110314RJ01	Based on the original product, the new product changes the surface LDS radium engraving wire and replaces the antenna of the left earphone. This report verify EIRP of the left earphone.	Dec. 31, 2024

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report reference	Parameter	Test Results (NOTE)
GENERAL PROVISIONS				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.4	Spurious emissions	C
TRANSMITTING EQUIPMENT				
F	3.2(1)	4.5	Antenna power	C
--	--	--	SAR	N/A
TRANSMITTING ANTENNA				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
RECEIVING EQUIPMENT				
G	3.3 (1)	4.6	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2400 TO 2483.5MHz				
--	3.7 (1)	3.4	High Frequency/modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.5	Antenna power	C
--	3.6 (2)	4.5	Absolute gain of transmitting antenna	C
--	3.6 (2)	4.6	Angular width of principal radiation (AWPR)	C
--	3.2 (10)	-	Number of carriers within 1 MHz bandwidth in OFDM	C
--	3.2 (8)	4.2	Diffusion bandwidth	C
--	3.2 (9)	4.3	Spreading factor	C
--	3.4.1(1)	4.8	Interference Prevention Function	C
--	3.4.1(3)	4.7	Carrier Sense Capability	N/A
--	3.7(1)	4.9	Construction Protection Confirmation	C
NOTE: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

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

ITEM	UNCERTAINTY
Occupied Bandwidth	261.60 Hz
Spurious emissions	2.52dB
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 m

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF LAB

TEST LAB	BV 7Layers Communications Technology (Shenzhen) Co. Ltd
TEST LAB ADDRESS:	Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

2.2 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Earphones
BRAND NAME	Xiaomi
MODEL NAME	M2437E1
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	BT-LE (1M&2M): 2402MHz ~ 2480MHz
NUMBER OF CHANNEL	BT-LE (1M&2M): 40
RATED RF OUTPUT POWER DENSITY	Refer to NOTE 3
CONDUCTED RF OUTPUT POWER DENSITY	Refer to NOTE 3
RADIATED RF OUTPUT POWER DENSITY	Refer to NOTE 3
ANTENNA TYPE	PIFA Antenna with -4.85dBi gain
HW-Release No	V3
SW-Release No	0.0.4.4 for Charging case 071_A_1.0.3.4_240913 for Earphone



NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function without beamforming.

MODULATION MODE	TX/RX FUNCTION
BT_LE(1MHz)	1TX /1RX
BT_LE(2MHz)	1TX /1RX

3. The power table as below table:

Right ear

	Rated output power density (mW)	Conducted RF output power density (mW)	Radiated RF output power density (mW)
BLE (1M)	7	6.9024	2.26
BLE (2M)	7	6.9823	2.29

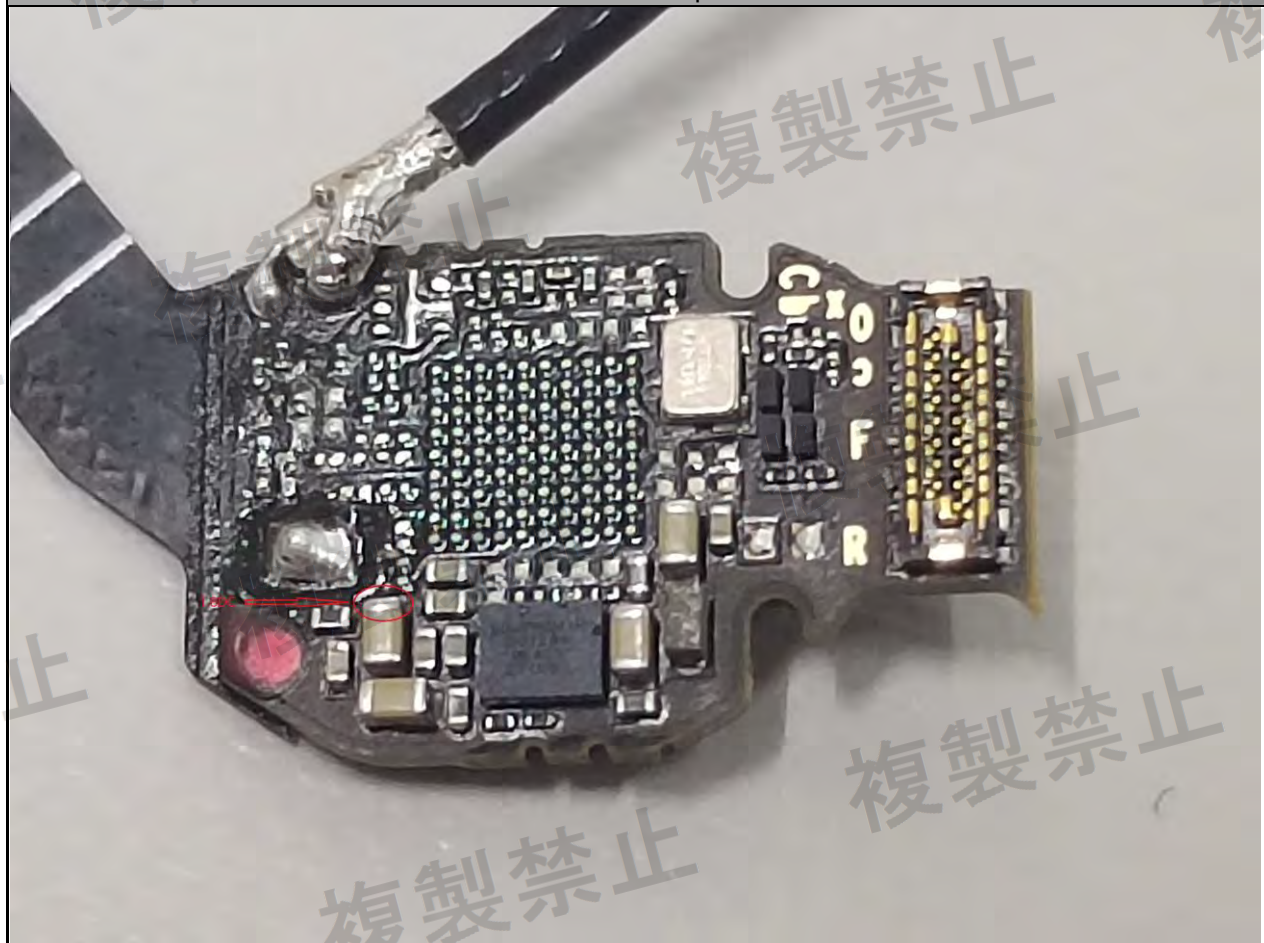
Left ear

	Rated output power density (mW)	Conducted RF output power density (mW)	Radiated RF output power density (mW)
BLE (1M)	7	6.2373	2.04
BLE (2M)	7	6.2087	2.03

4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

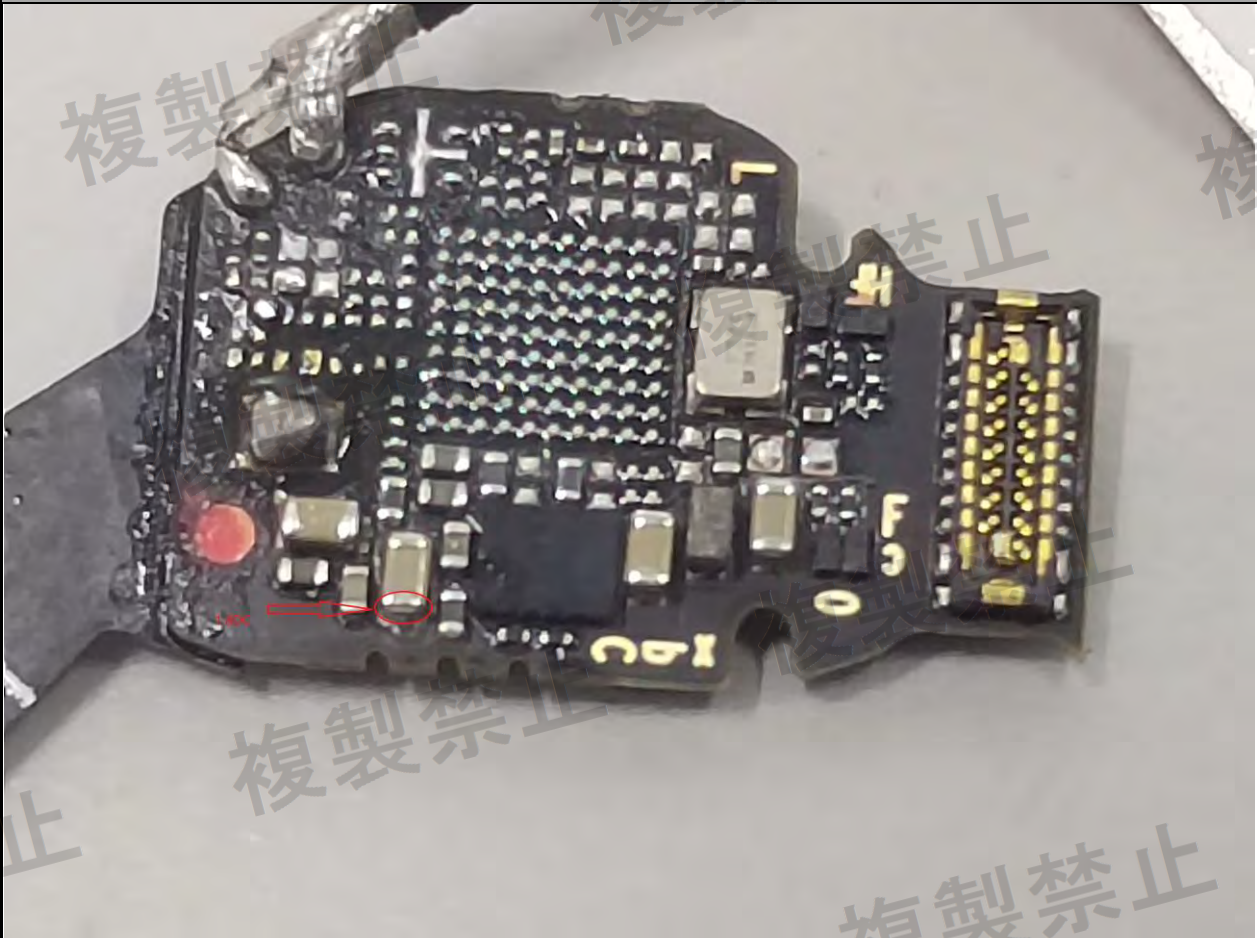
5. When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cased were done under the normal supply voltage.

Right ear

Power supply voltage 3.85Vdc (Normal)	Power supply voltage 4.24Vdc (+10%)	Power supply voltage 3.47Vdc (-10%)
1.792	1.791	1.8
Measurement point		
		



Left ear

Power supply voltage 3.85Vdc (Normal)	Power supply voltage 4.24Vdc (+10%)	Power supply voltage 3.47Vdc (-10%)
1.793	1.791	1.8
Measurement point		
		

6. For the test results, the EUT had been tested with normal supply voltage condition.

2.3 DESCRIPTION OF TEST CHANNELS

Forty channels are provided for BT-LE (GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

NOTE:

1. The channels which were indicated in bold type of the above channel list were selected as representative test channels. Therefore, only the data of the test channels were recorded in this report.



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Right ear/ Left ear

BT-LE (1M)		BT-LE (2M)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	Default	1	Default
19	Default	19	Default
39	Default	38	Default

2.4 TEST CONDITIONS

Right ear/ Left ear

Test conditions	Voltage (Vdc)
V_{normal}	3.85
V_{max}	4.24
V_{min}	3.47

2.5 ASSEMBLY

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, Also it won't be easy to be opened. Frequency Band, channels and Modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

2.6 ANTENNA SPECIFICATIONS

2.6.1 ANTENNA GAIN

Right ear/ Left ear

Ant. Type	Connector Type	Highest Peak Gain with Cable Loss (dBi) 2.4GHz ~ 2.5GHz
PIFA antenna	N/A	-4.85

2.6.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

3 TEST RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

3.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

3.1.2 TEST PROCEDURES

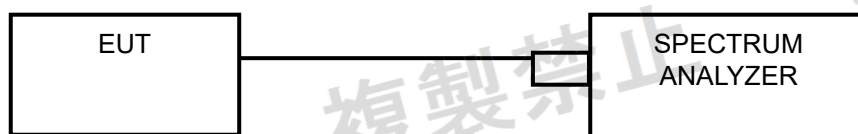
Method 1

1. Set RBW = 10 kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. That are attenuated by 10 dB relative to the maximum level measured in the fundamental emission for EUT ,then Mark f1 and f2,final use formula $FT = [(f1+f2)/2 - f] / f$, f=fundamental emission frequency

Method 2

1. Set RBW = 1 kHz.
2. Set the video bandwidth (VBW) $\geq 30 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum Peak of the emission for CW and mark f1,then use formula $FT = (f1-f)/f$, f=fundamental emission frequency

3.1.3 TEST SETUP





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3.1.4 TEST RESULTS

NOTE: Please Refer to Appendix Of this test report.

3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

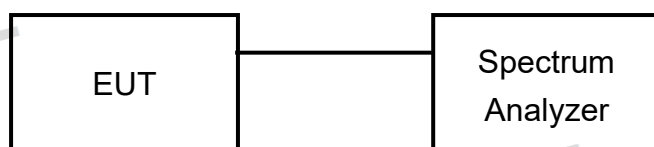
3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

ITEM	LIMIT	REMARK
Occupied bandwidth	<26MHz	For BT-LE (GFSK)

3.2.2 TEST PROCEDURES

1. Set RBW = 30 kHz.
 2. Set the video bandwidth (VBW) $\geq$ RBW.
 3. Detector = Peak.
 4. Trace mode = max hold.
 5. Sweep = auto couple.
 6. Allow the trace to stabilize.
 7. Make sure that the power envelope is sufficiently above the noise floor of the analyzer to avoid the noise signals left and right from the power envelope being taken into account by this measurement.
- Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

NOTE: Please Refer to Appendix Of this test report.

3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)

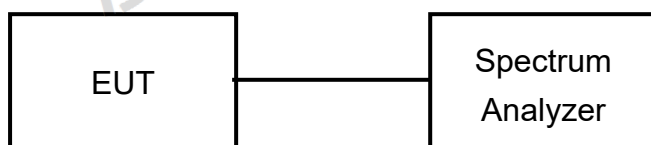
3.3.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

ITEM	LIMIT	REMARK
SPREADING FACTOR	≥ 5	Operating frequency 2400 to 2483.5MHz
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	

3.3.2 TEST PROCEDURES

Use 3.2.2 method.

3.3.3 TEST SETUP



3.3.4 TEST RESULTS

NOTE: Please Refer to Appendix Of this test report.

3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

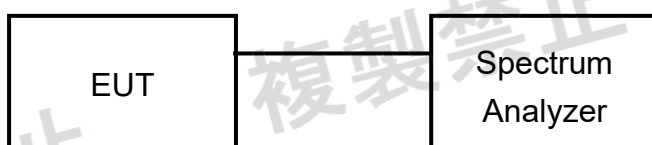
3.4.1 LIMITS OF SPURIOUS EMISSIONS

FREQUENCIES (MHz)	LIMIT
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 2.5\mu\text{W/MHz}$
1000.0MHz to 2387MHz	$\leq 2.5\mu\text{W/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\mu\text{W/MHz}$

3.4.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

3.4.3 TEST SETUP





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3.4.4 SUMMARY OF TEST RESULT

NOTE: Please Refer to Appendix Of this test report.

3.5 ANTENNA POWER MEASUREMENT

3.5.1 LIMITS OF ANTENNA POWER

Antenna power shall be 10mW or less.

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
DTS	2,400 – 2,4835 MHz	10mW	12.14 dBm (16.368 mW)	22.14 dBm (163.68 mW)

Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

According to article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree

A represents the value determined by dividing an equivalent isotopically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1

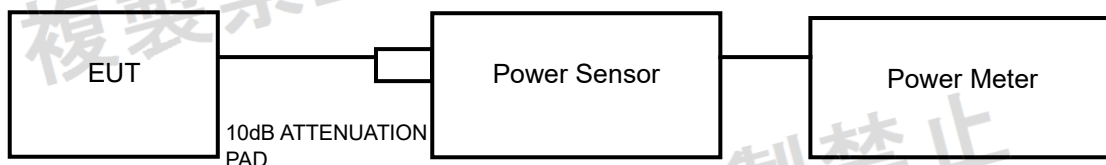
3.5.2 TEST PROCEDURES

BLE :

Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.

3.5.3 TEST SETUP

BLE:





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3.5.4 TEST RESULTS

NOTE: Please Refer to Appendix Of this test report.

3.6 SPURIOUS EMISSIONS FOR RECEIVER

3.6.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

FREQUENCIES (MHz)	LIMIT
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

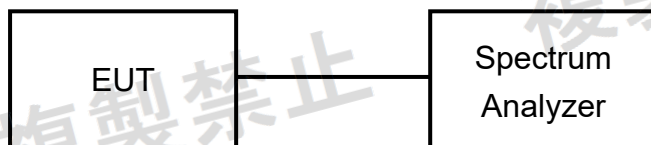
3.6.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

IF the peak value is over the requirement 3dBm,we need to measurement as below:

1. Find the frequency that has maximum value.
2. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
3. Set the video bandwidth (VBW) = RBW.
4. Detector = Average.
4. Trace mode = Clear.
5. Sweep Mode = Singled sweep.
6. Span = Zero.

3.6.3 TEST SETUP



(EUT operate in multiple outputs:

The measurement was investigated worst chain and the worst chain was selected as representative test and add $10\log(N)$, its data was recorded in this report.)



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3.6.4 SUMMARY OF TEST RESULT

NOTE: Please Refer to Appendix Of this test report.

3.7 INTERFERENCE PREVENTION FUNCTION

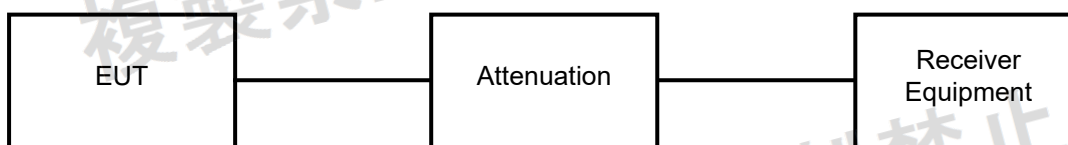
3.7.1 LIMITS OF INTERFERENCE PREVENTION FUNCTION

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

3.7.2 TEST PROCEDURES

According to ANNEX 43 Temporary test method specified by MIC.

3.7.3 TEST SETUP



3.7.4 TEST RESULTS

ENVIRONMENTAL CONDITIONS	24 deg.C, 59% RH
LINK MODE	TEST RESULT
Identification code	48 bits
BLE	PASS

3.8 CONSTRUCTION PROTECTION CONFIRMATION METHOD

3.8.1 CONFIRMATION METHOD

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☒	Chassis is glued using a special adhesive.
☐	Metal covers are spot fused.
☐	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

3.8.2 THE PHOTOS OF CONSTRUCTION PROTECTION



3.8.3 TEST CIRCUIT PHOTO



4 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Calibration Authority	Last Cal.	Next Cal.	Cal. Method
Power Meter	ANRITSU	ML2495A	1506002	GuangDian	Feb. 22,24	Feb. 21,25	c
DC Source	Agilent	U8002A	MY52140018	GuangDian	May. 31,24	May. 30,25	c
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	GuangDian	Feb. 22,24	Feb. 21,25	c
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	GuangDian	Jun. 01,24	May. 31,25	c
WEINSCHTEL	10Db Attenuator	6231	666	GuangDian	Aug. 15,24	Aug. 14,25	c
Signal Generator N5182B	KEYSIGHT	N5182B	MY56200114	GuangDian	Feb. 14,24	Feb. 13,25	c

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to Calibration Lab: GRE Metrology & Test Group CO.,LTD. Address: NO.163 Pingyun Rd, West of Huangpu Ave. Guangzhou, Guangdong, China.

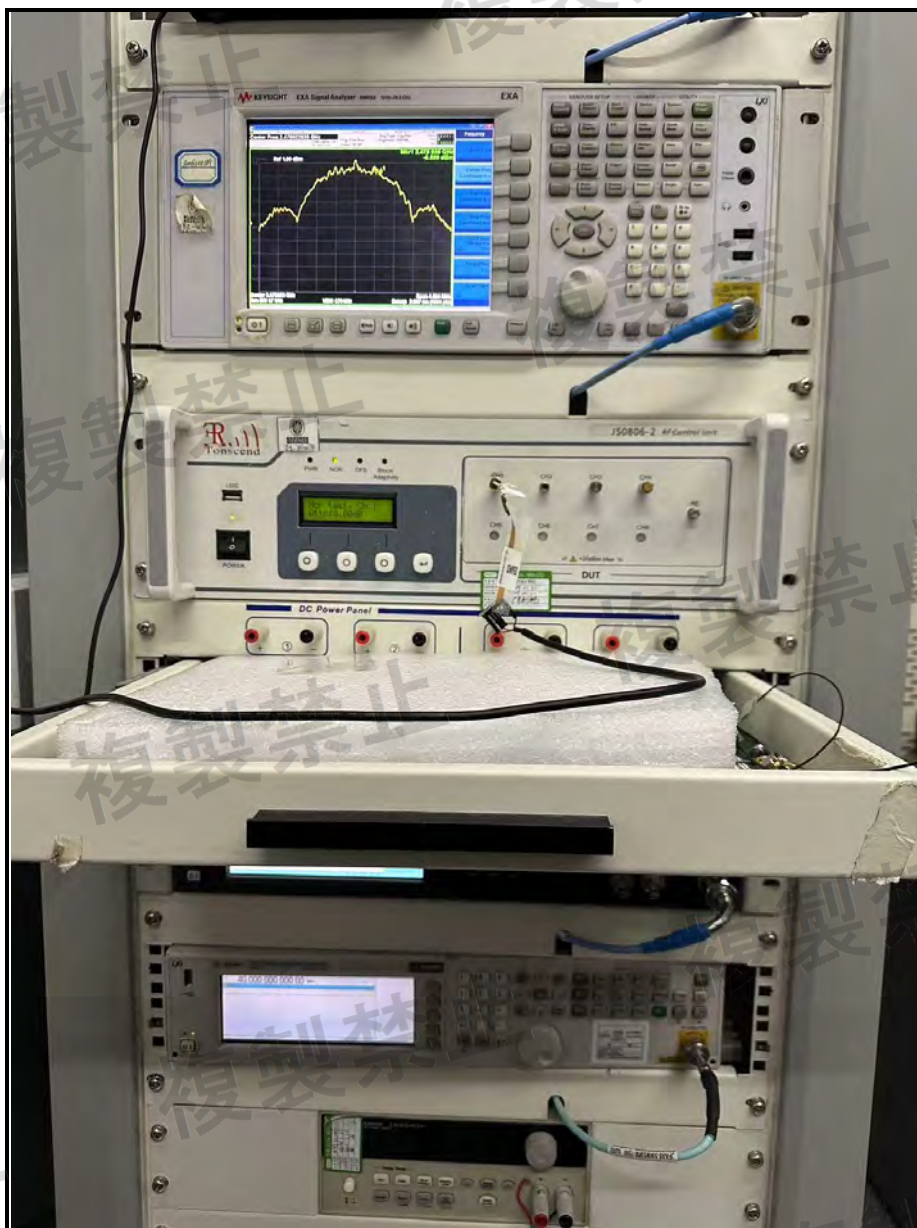
2. The test was performed in RF Oven room.

Calibration Method:

- a: Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~.
- b: Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System~
- c: Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~
- d: Calibration conducted by using other equipment that listed above from a) to c)

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Right ear

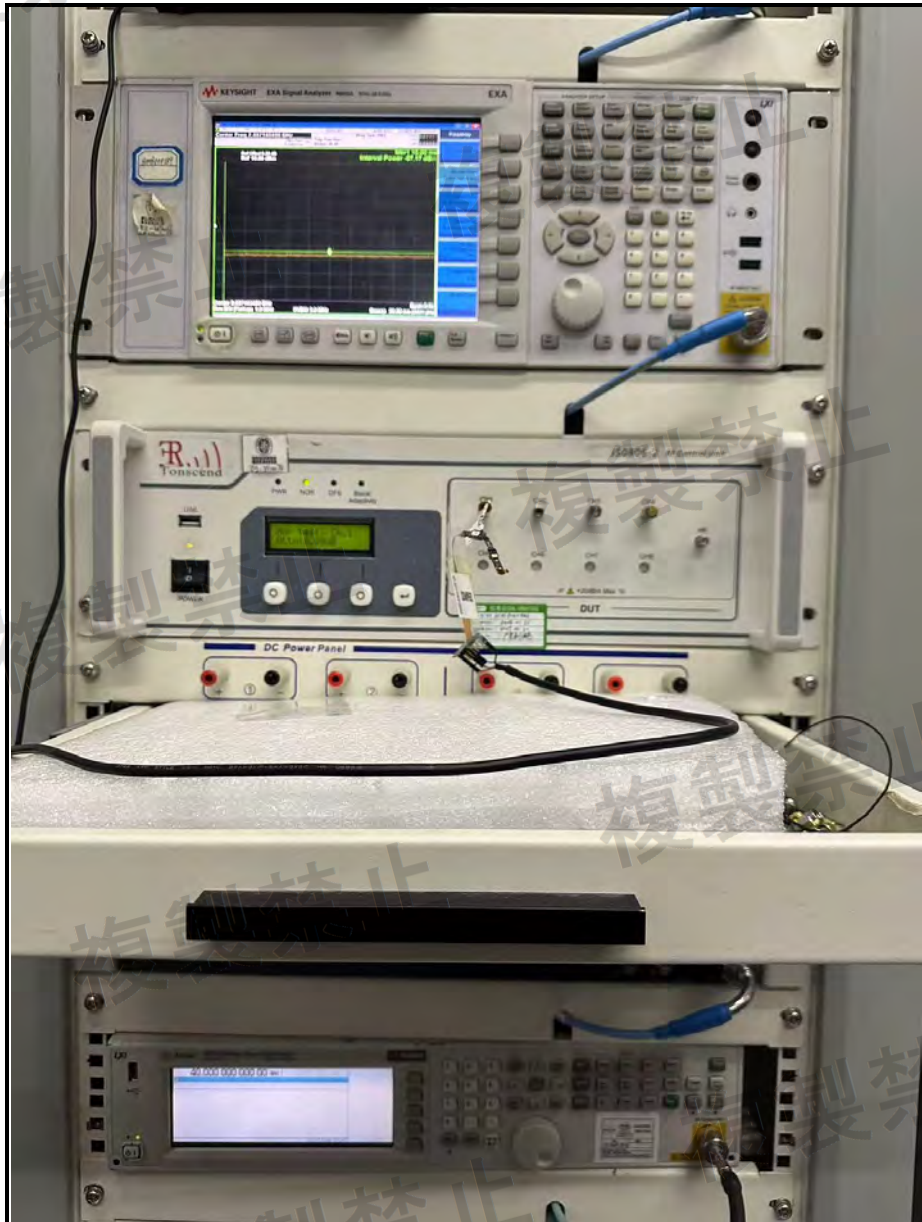




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Left ear



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6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.



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Appendix: BLE

RIGHT EAR

Frequency Error

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	2402.027	+11.24063	±50	PASS
			2440	2440.027	+11.06557	±50	PASS
			2480	2480.027	+10.88710	±50	PASS
	BLE_2M	Ant1	2404	2403.985	-6.23960	±50	PASS
			2440	2439.988	-4.91803	±50	PASS
			2478	2477.997	-1.21065	±50	PASS

Note: Result[ppm]= (CenterFreq - Freq)/ Freq*1000000



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TEST GRAPHS



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(Shenzhen) Co., Ltd

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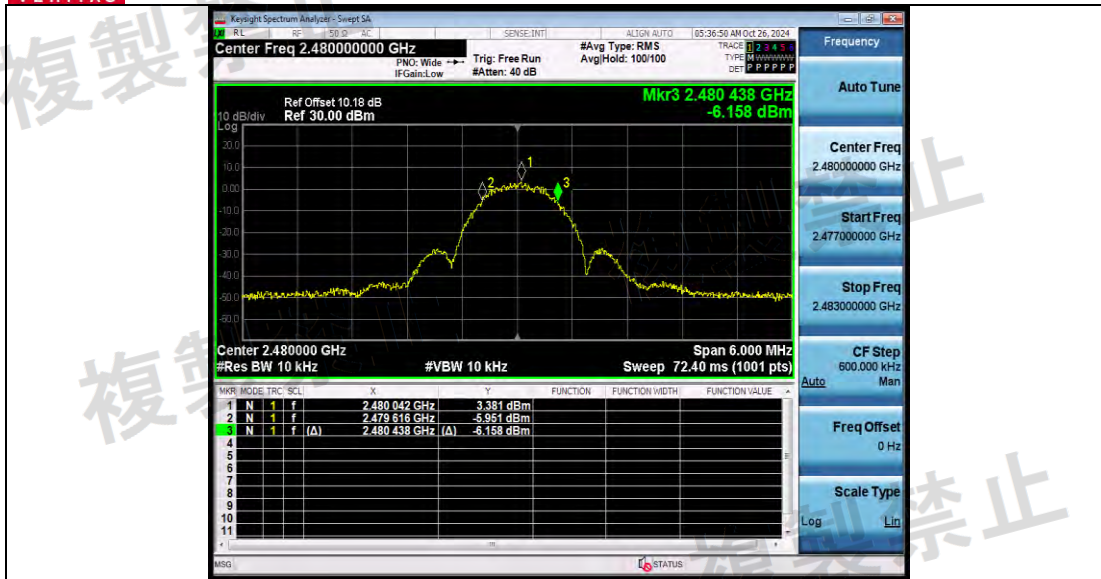
Fax: +86 755 8869 6577

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NTNV BLE 2M Ant1 2404



NTNV BLE 2M Ant1 2440

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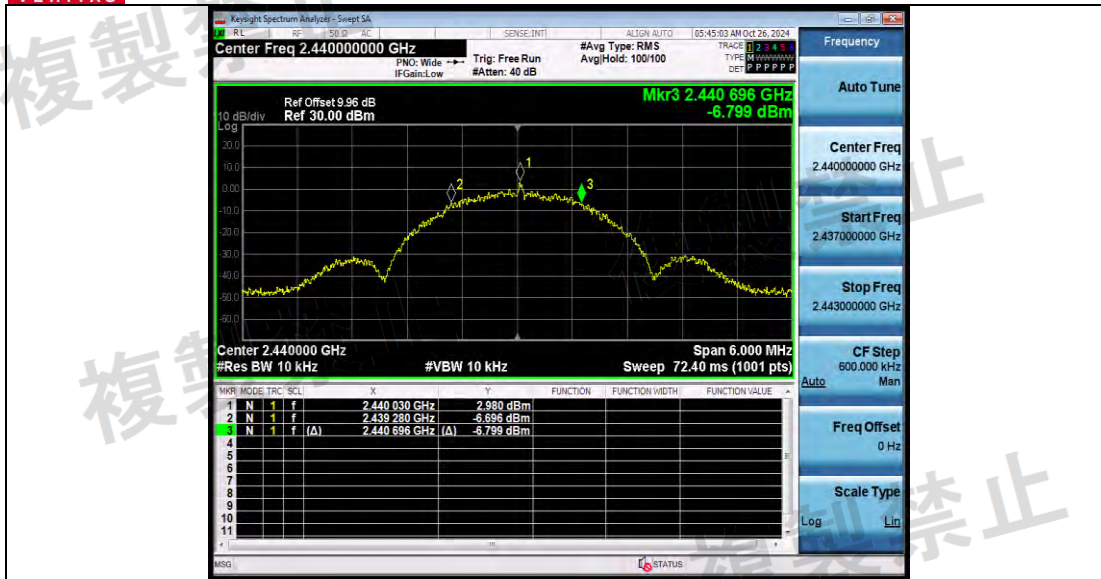
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NTNV BLE 2M Ant1 2478



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Antenna Power

TEST RESULT

Antenna Power							
TestCondition	TestMode	Antenna	Freq (MHz)	Result (dBm)	Result (mW)	Limit (mW)	Verdict
NTNV	BLE_1M	Ant1	2402	8.39	6.9024	≤10	PASS
			2440	7.01	5.0234	≤10	PASS
			2480	8.12	6.4863	≤10	PASS
	BLE_2M	Ant1	2404	8.44	6.9823	≤10	PASS
			2440	8.09	6.4417	≤10	PASS
			2478	8.15	6.5313	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	6.9024	7	-1.39	-80 to +20	PASS
			2440	5.0234	7	-28.24	-80 to +20	PASS
			2480	6.4863	7	-7.34	-80 to +20	PASS
	BLE_2M	Ant1	2404	6.9823	7	-0.25	-80 to +20	PASS
			2440	6.4417	7	-7.98	-80 to +20	PASS
			2478	6.5313	7	-6.70	-80 to +20	PASS

EIRP								
TestCondition	TestMode	Antenna	Freq (MHz)	Result (dBm)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	8.39	3.54	2.26	≤12.14	PASS
			2440	7.01	2.16	1.64	≤12.14	PASS
			2480	8.12	3.27	2.12	≤12.14	PASS
	BLE_2M	Ant1	2404	8.44	3.59	2.29	≤12.14	PASS
			2440	8.09	3.24	2.11	≤12.14	PASS
			2478	8.15	3.3	2.14	≤12.14	PASS



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Test Report No.: PSU-NQN2412110314RJ01

Occupied Bandwidth

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.031	≤26	PASS
			2440	1.037	≤26	PASS
			2480	1.036	≤26	PASS
	BLE_2M	Ant1	2404	2.035	≤26	PASS
			2440	2.047	≤26	PASS
			2478	2.030	≤26	PASS



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TEST GRAPHS



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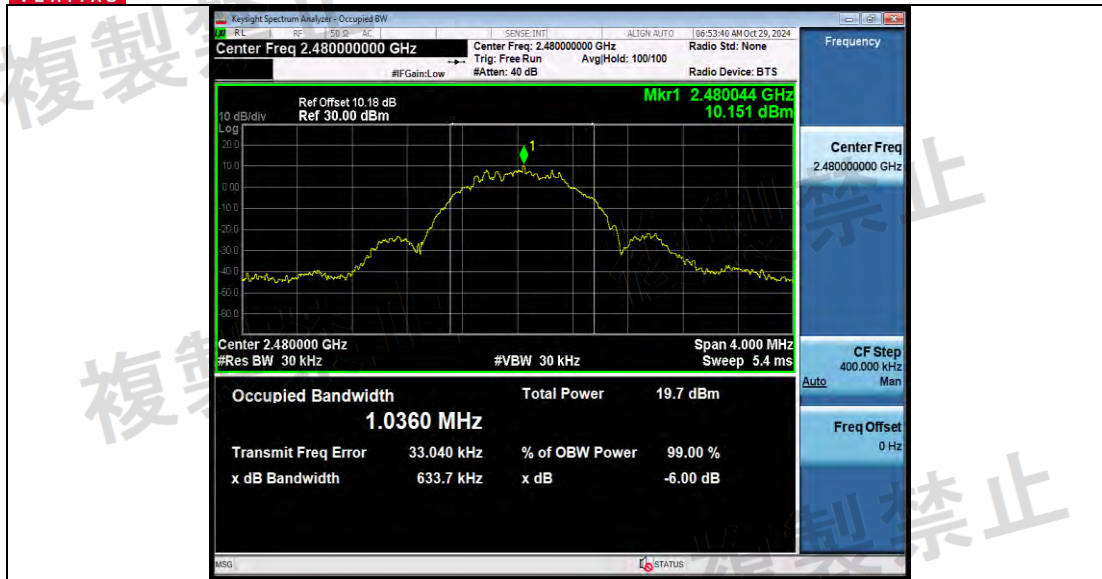
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NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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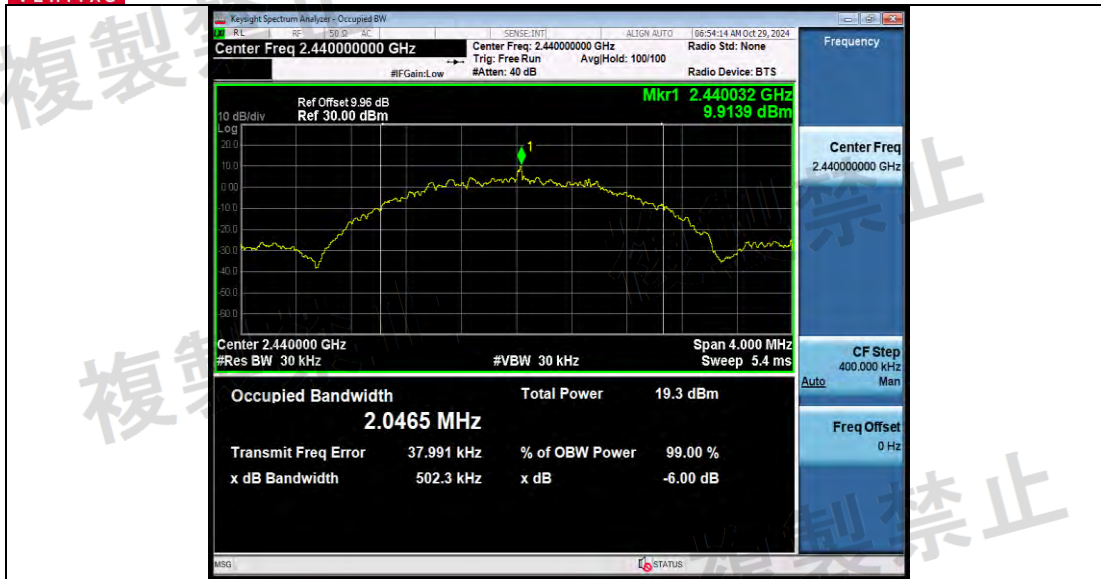
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NTNV BLE 2M Ant1 2478



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Spread Bandwidth

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.663	≥ 0.5	PASS
			2440	0.668	≥ 0.5	PASS
			2480	0.666	≥ 0.5	PASS
	BLE_2M	Ant1	2404	1.328	≥ 0.5	PASS
			2440	1.339	≥ 0.5	PASS
			2478	1.334	≥ 0.5	PASS



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TEST GRAPHS



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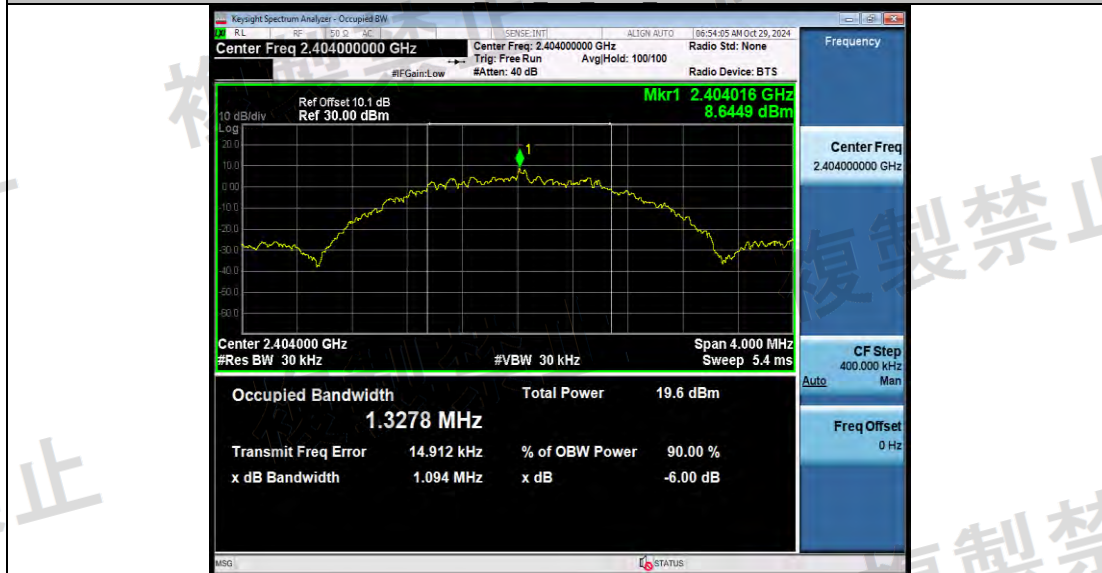


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NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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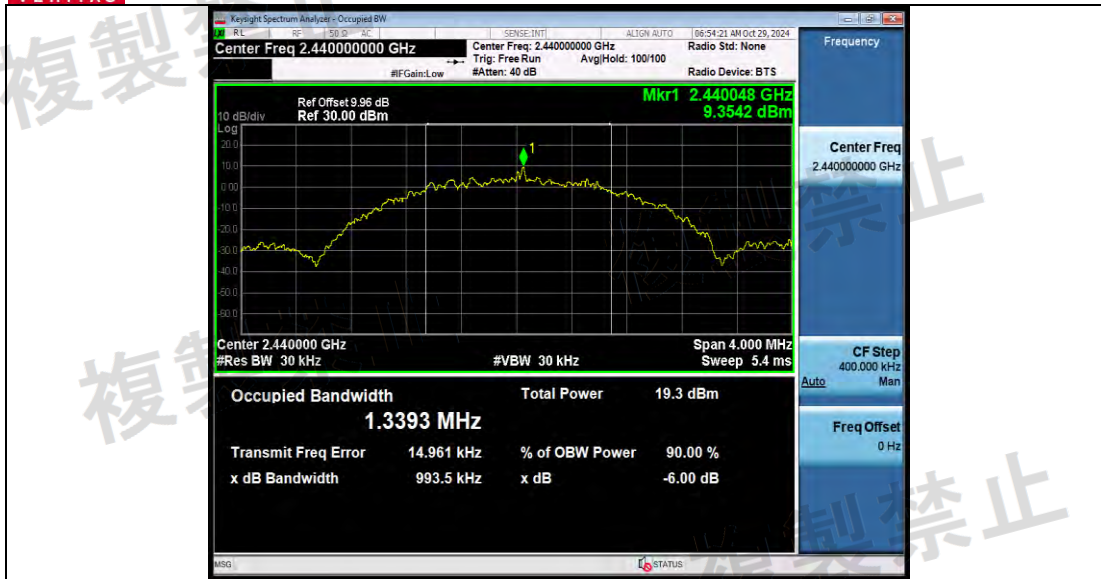
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NTNV BLE 2M Ant1 2478



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Spurious Emission of TX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Result [dBm/Mhz z]	Limit [dBm/Mhz]	Result [μW/Mhz z]	Limit [μW/Mhz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-43.81	≤-26	0.04159	≤2.5	PASS
				1000~2387	-43.45	≤-26	0.04519	≤2.5	PASS
				2387~2400	-17.96	≤-16	15.99558	≤25	See table below
				2483.5~2496.5	-34.70	≤-16	0.33884	≤25	PASS
				2496.5~13000	-43.20	≤-26	0.04786	≤2.5	PASS
			2440	30~1000	-44.60	≤-26	0.03467	≤2.5	PASS
				1000~2387	-44.03	≤-26	0.03954	≤2.5	PASS
				2387~2400	-34.77	≤-16	0.33343	≤25	PASS
				2483.5~2496.5	-34.32	≤-16	0.36983	≤25	PASS
				2496.5~13000	-48.14	≤-26	0.01535	≤2.5	PASS
			2480	30~1000	-44.26	≤-26	0.03750	≤2.5	PASS
				1000~2387	-42.82	≤-26	0.05224	≤2.5	PASS
				2387~2400	-34.67	≤-16	0.34119	≤25	PASS
				2483.5~2496.5	-33.91	≤-16	0.40644	≤25	PASS
				2496.5~13000	-45.70	≤-26	0.02692	≤2.5	PASS
	BLE_2M	Ant1	2404	30~1000	-44.30	≤-26	0.03715	≤2.5	PASS
				1000~2387	-42.99	≤-26	0.05023	≤2.5	PASS
				2387~2400	-33.09	≤-16	0.49091	≤25	PASS
				2483.5~2496.5	-34.63	≤-16	0.34435	≤25	PASS
				2496.5~13000	-43.22	≤-26	0.04764	≤2.5	PASS
			2440	30~1000	-44.60	≤-26	0.03467	≤2.5	PASS
				1000~2387	-43.82	≤-26	0.04150	≤2.5	PASS
				2387~2400	-35.01	≤-16	0.31550	≤25	PASS
				2483.5~2496.5	-34.76	≤-16	0.33420	≤25	PASS
				2496.5~13000	-47.83	≤-26	0.01648	≤2.5	PASS
			2478	30~1000	-44.20	≤-26	0.03802	≤2.5	PASS
				1000~2387	-43.58	≤-26	0.04385	≤2.5	PASS
				2387~2400	-34.71	≤-16	0.33806	≤25	PASS
				2483.5~2496.5	-34.13	≤-16	0.38637	≤25	PASS
				2496.5~13000	-45.70	≤-26	0.02692	≤2.5	PASS

TEST RESULT_STEP2

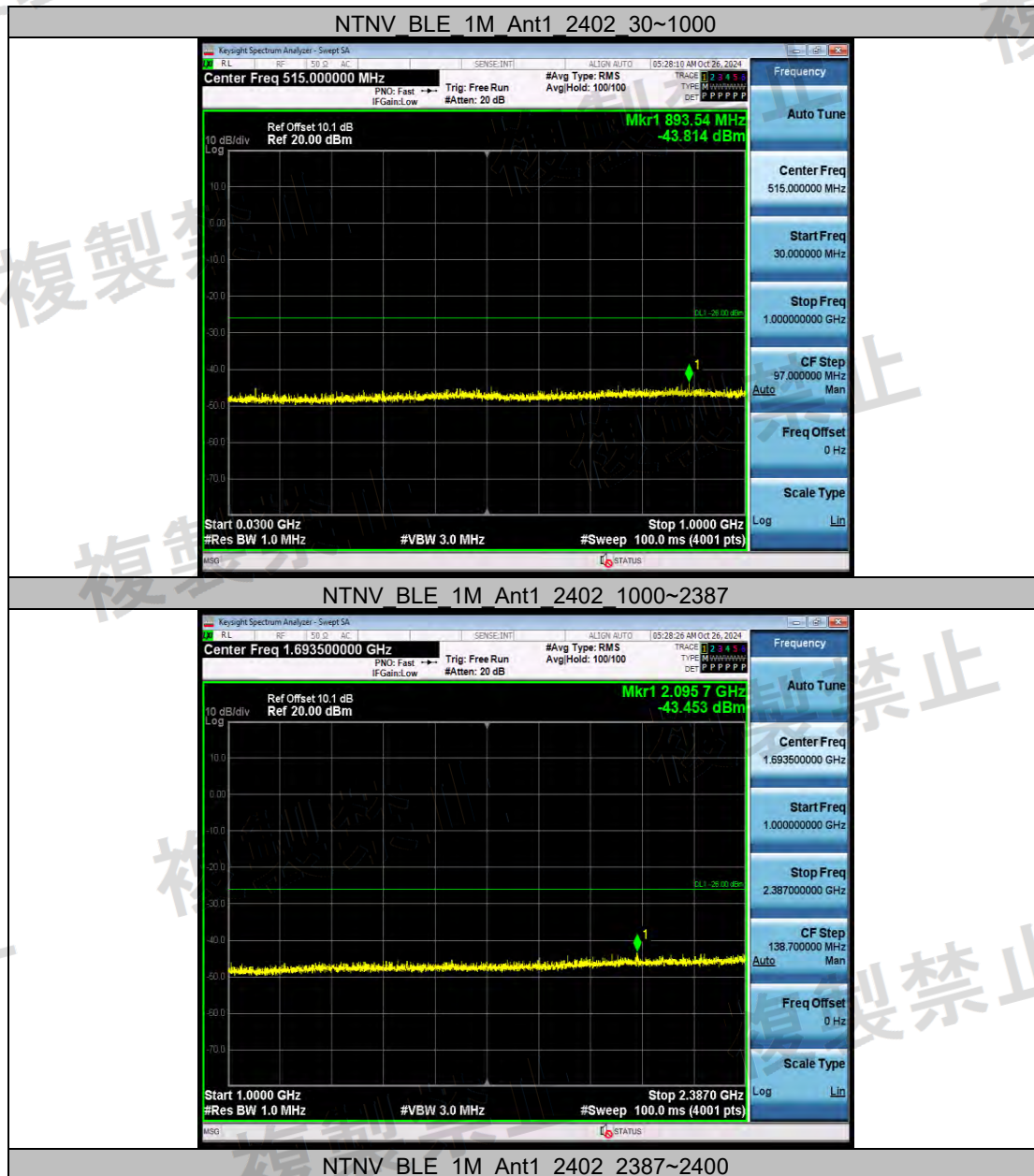
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm/Mhz z]	Limit [dBm/Mhz]	Result [μW/Mhz z]	Limit [μW/Mhz]	Verdict
NTNV	BLE_1M	Ant1	2402	2399.99	-30.08	≤-16	0.98175	≤25	PASS



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TEST GRAPHS



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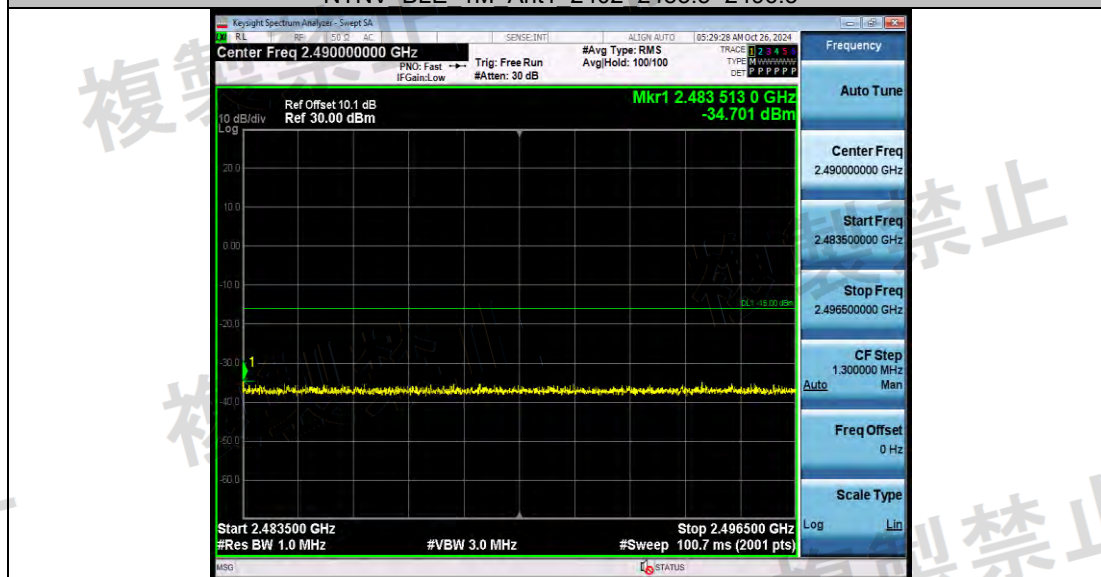


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NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



NTNV_BLE_1M_Ant1_2402_2496.5~13000

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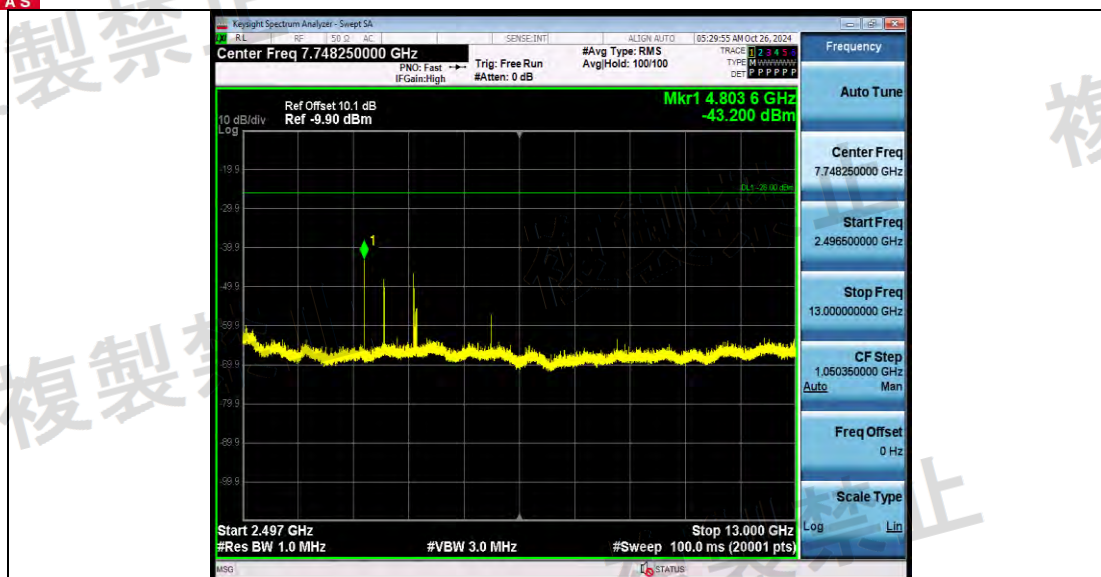
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NTNV_BLE_1M_Ant1_2440_30~1000



NTNV_BLE_1M_Ant1_2440_1000~2387

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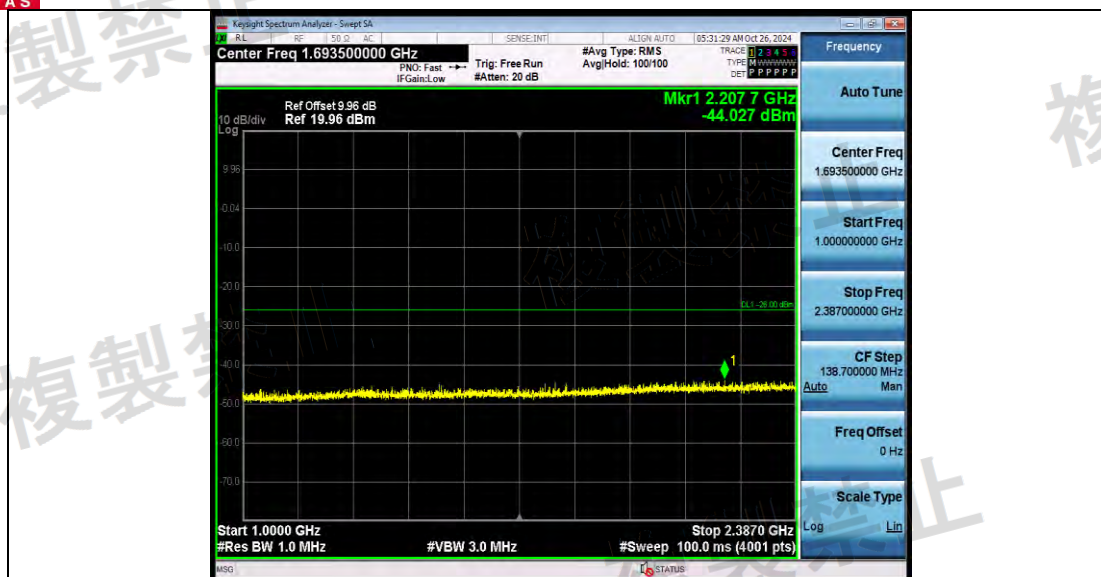
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NTNV_BLE_1M_Ant1_2440_2387~2400



NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

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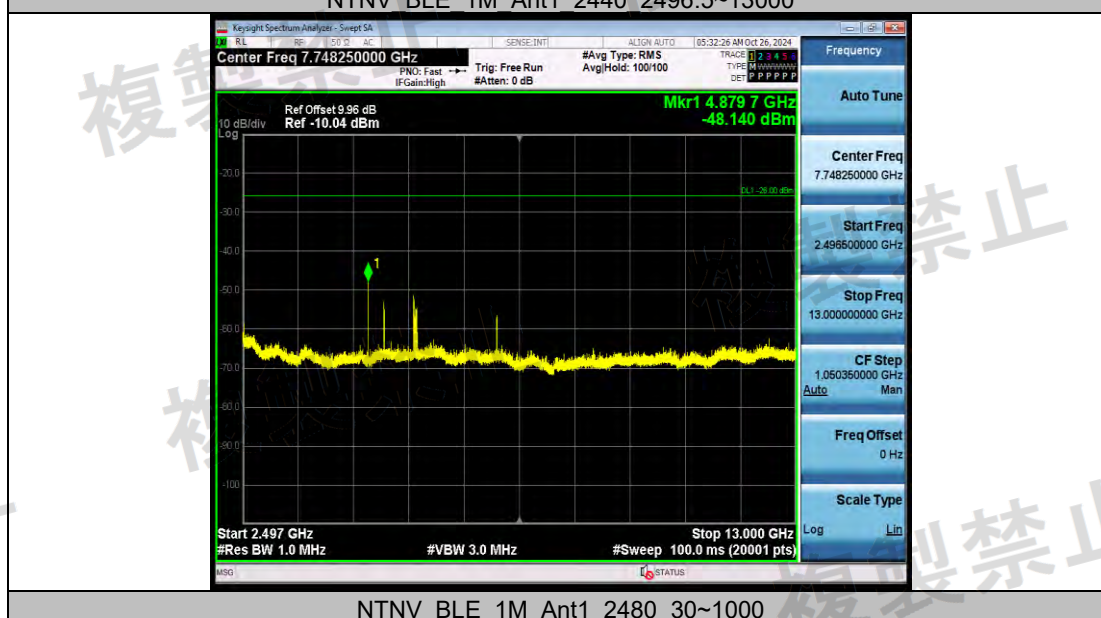
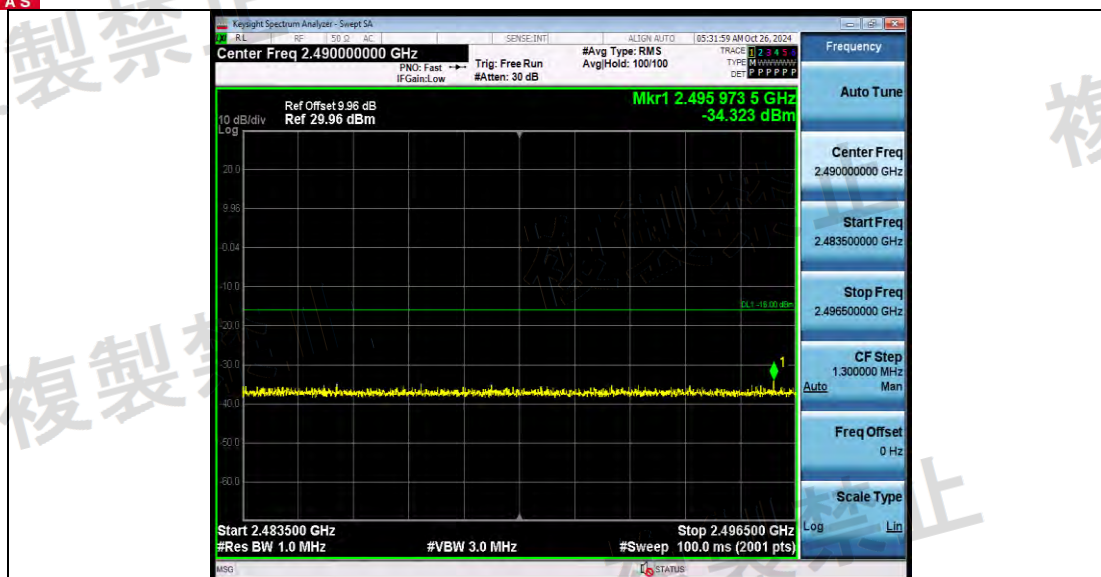
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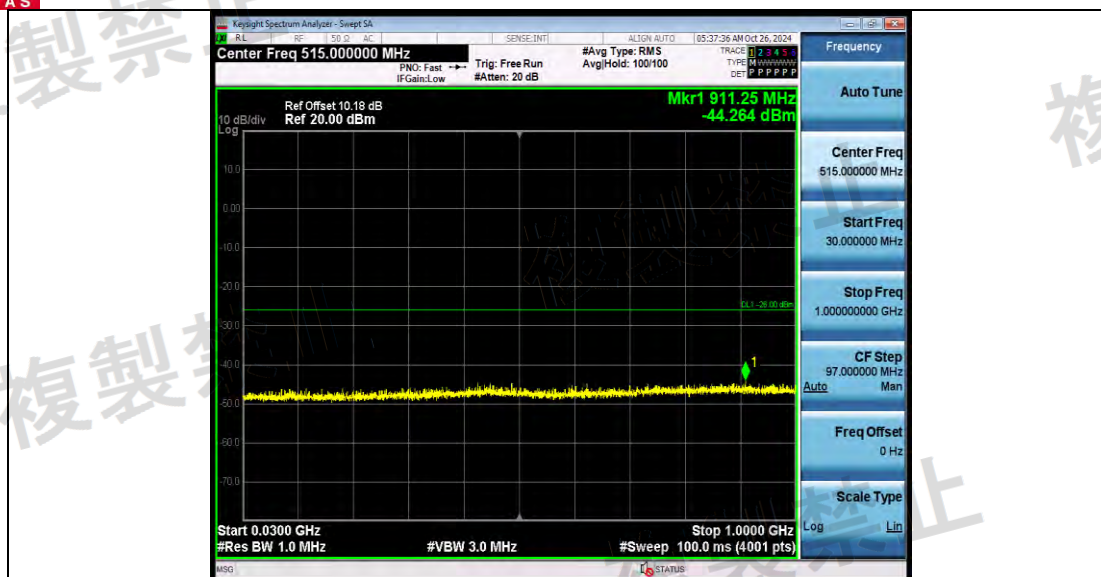
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NTNV_BLE_1M_Ant1_2480_1000~2387



NTNV_BLE_1M_Ant1_2480_2387~2400

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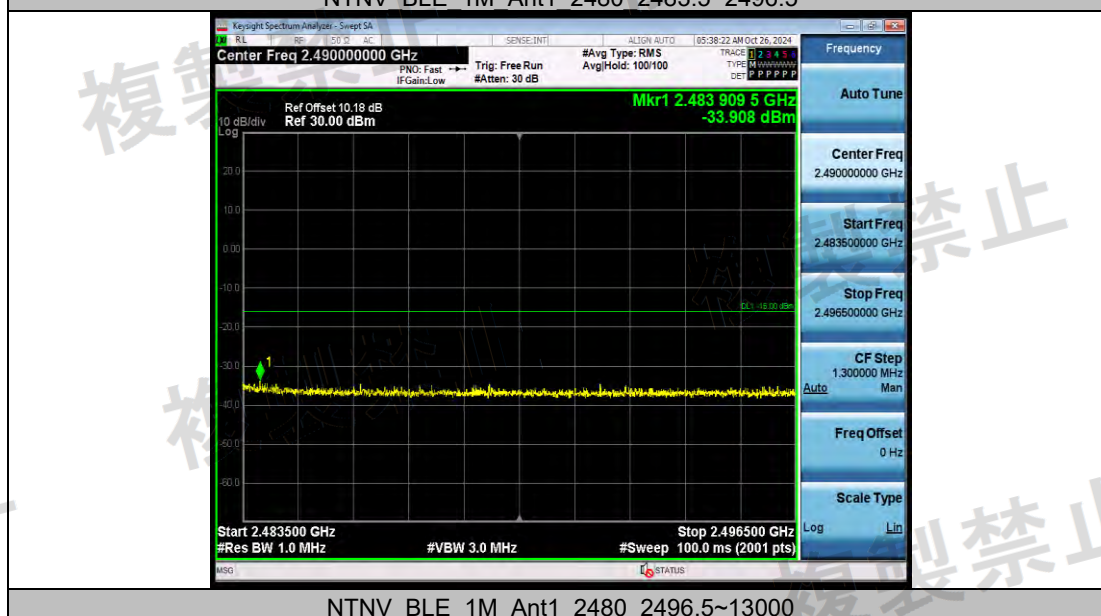
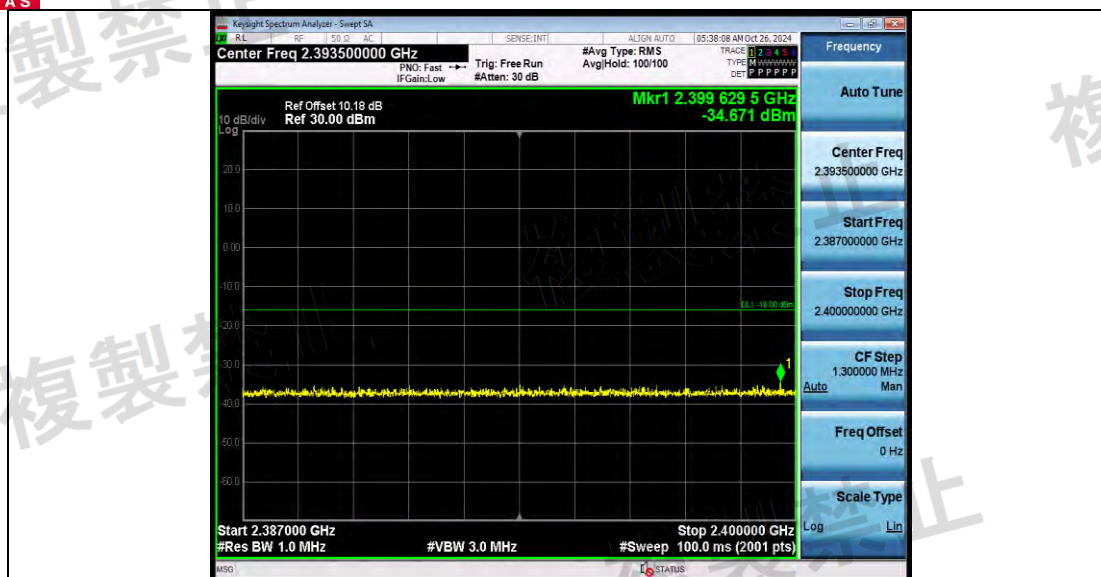
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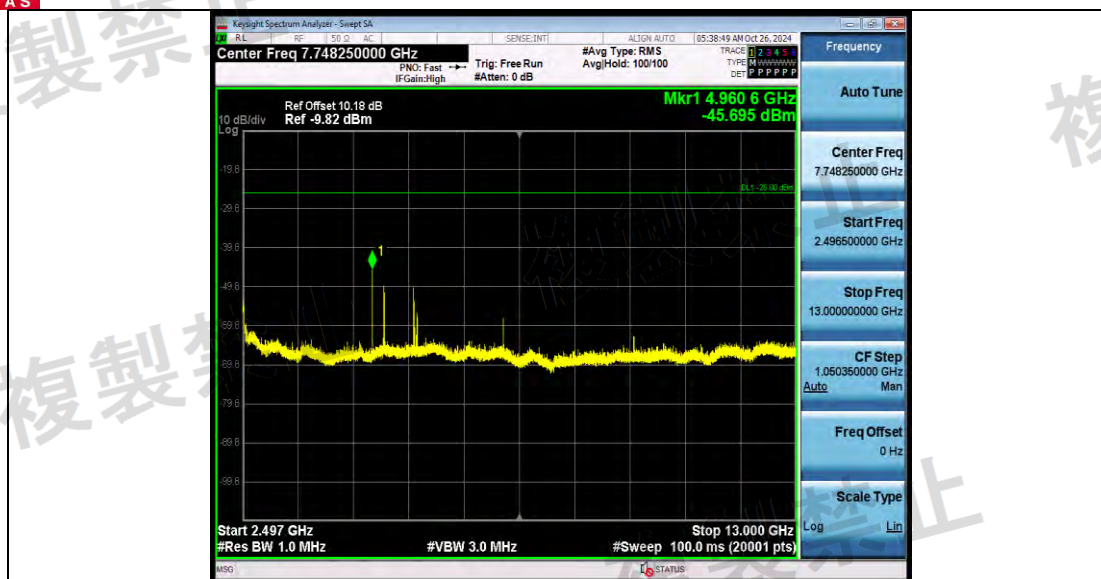
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NTNV BLE 2M Ant1 2404 30~1000



NTNV BLE 2M Ant1 2404 1000~2387

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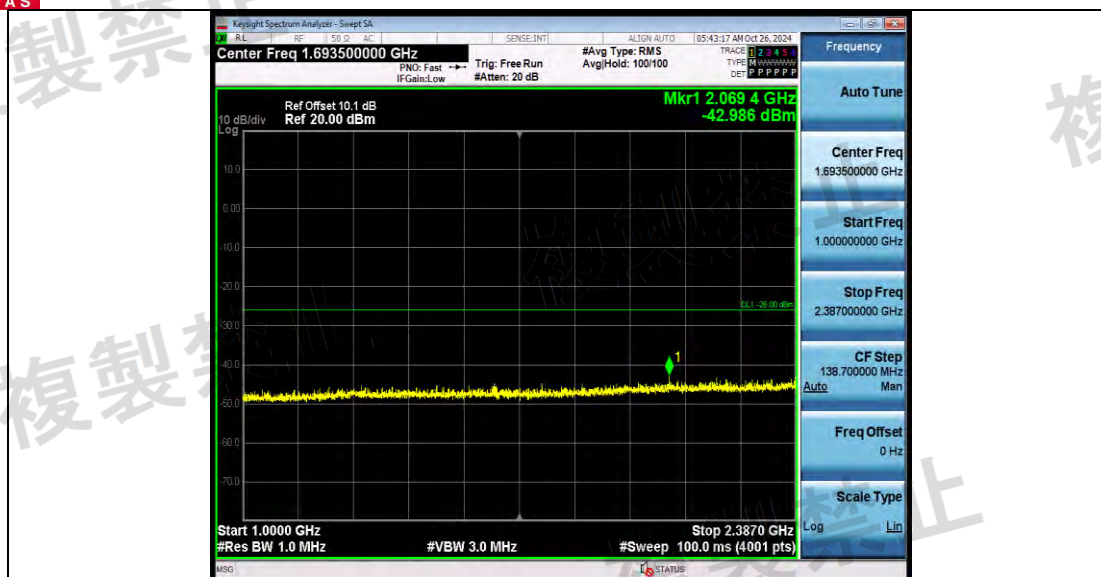
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NTNV_BLE_2M_Ant1_2404_2387~2400



NTNV_BLE_2M_Ant1_2404_2483.5~2496.5

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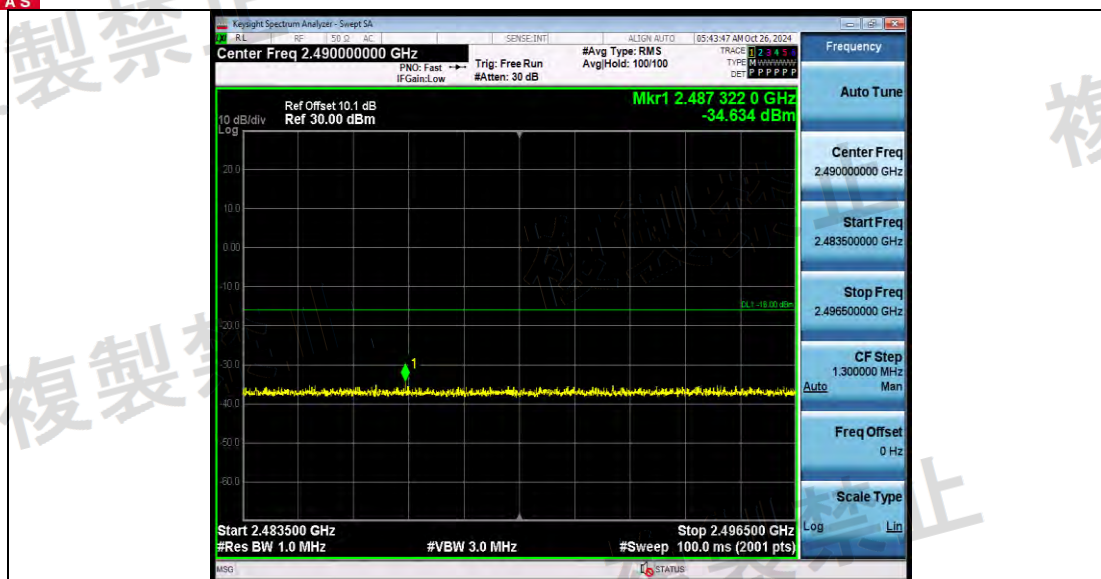
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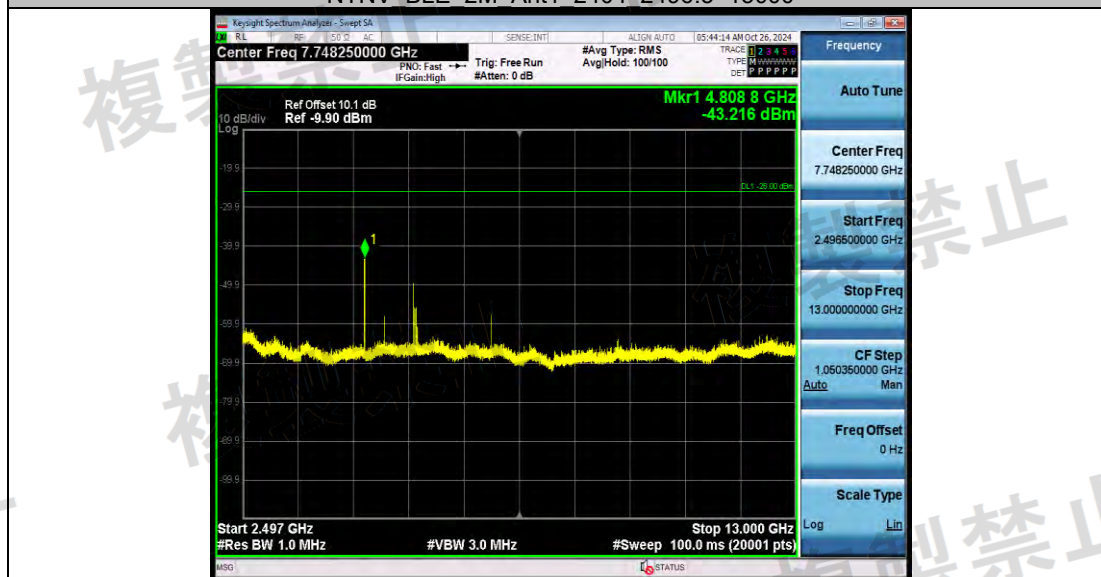


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NTNV_BLE_2M_Ant1_2404_2496.5~13000



NTNV_BLE_2M_Ant1_2440_30~1000

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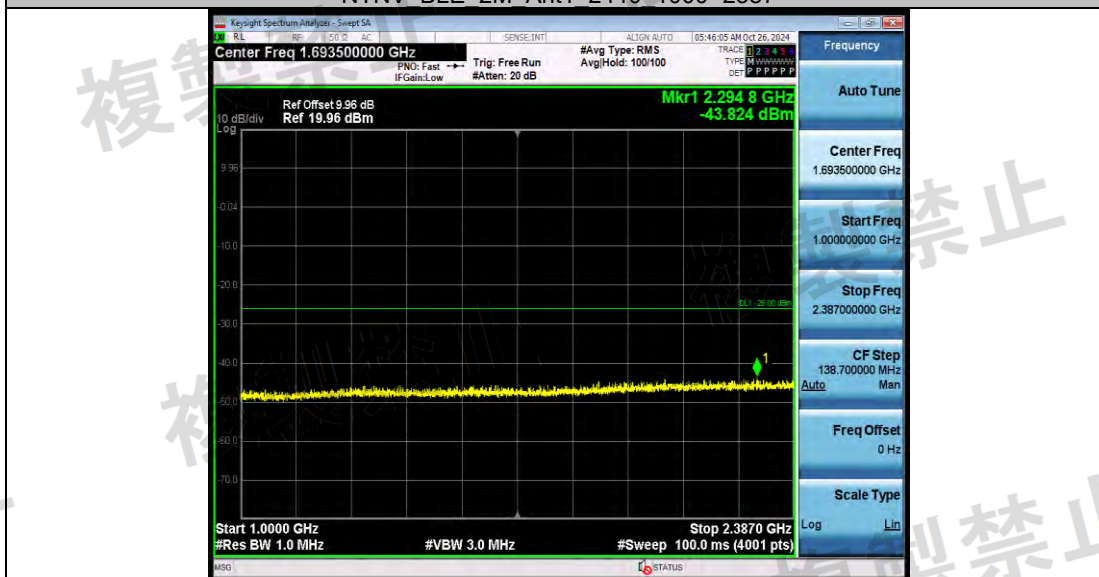


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NTNV_BLE_2M_Ant1_2440_1000~2387



NTNV_BLE_2M_Ant1_2440_2387~2400

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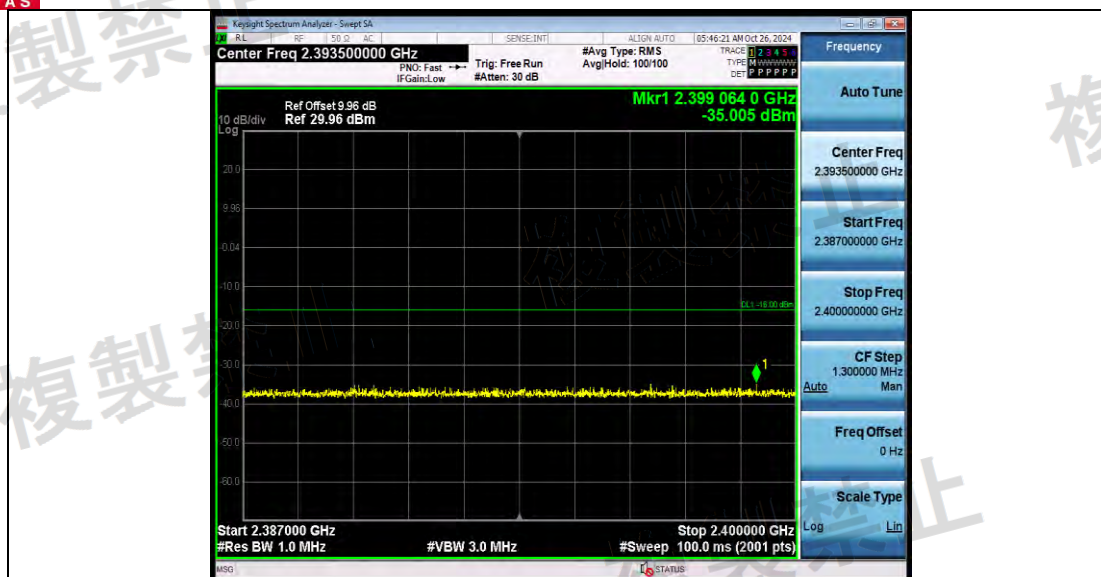
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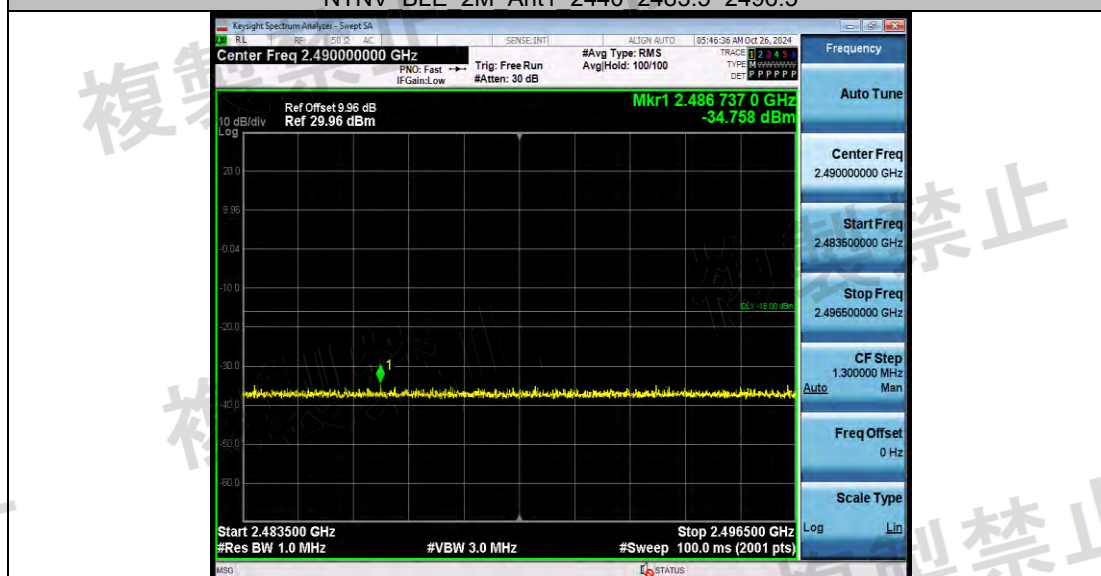


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NTNV_BLE_2M_Ant1_2440_2483.5~2496.5



NTNV_BLE_2M_Ant1_2440_2496.5~13000

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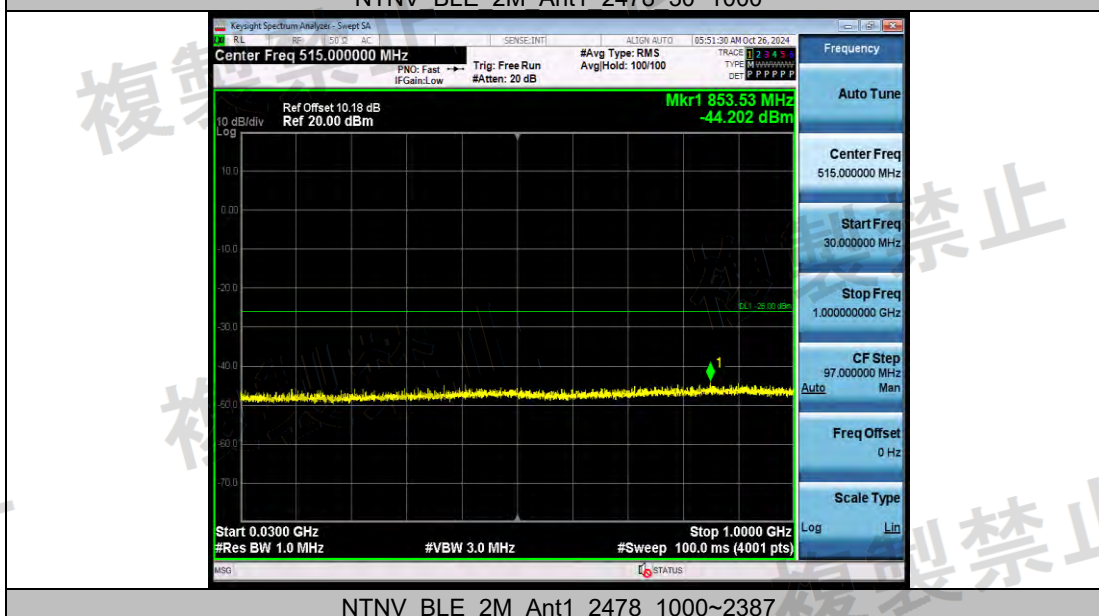
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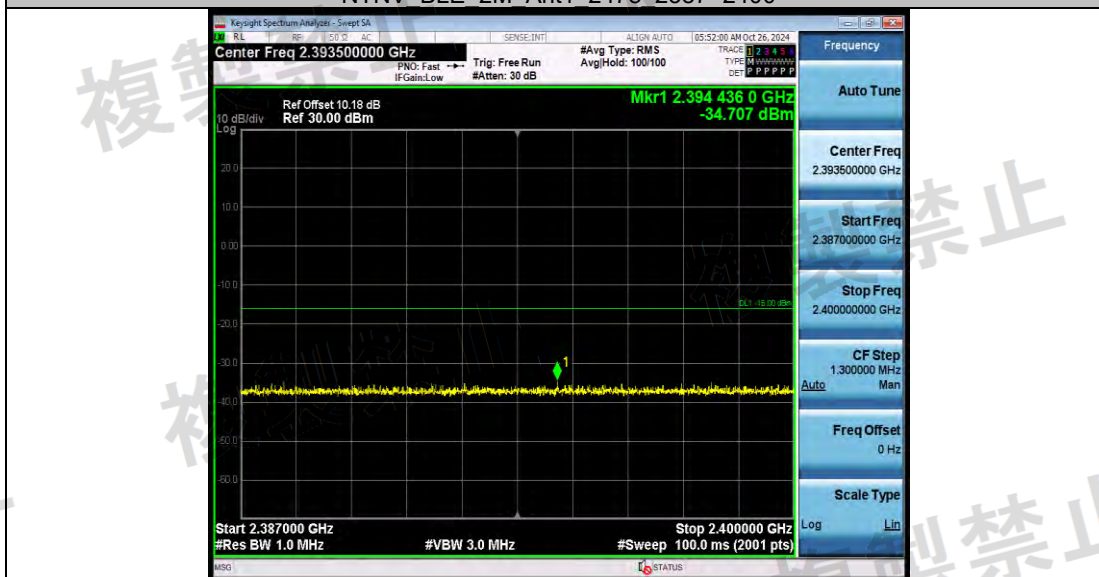


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NTNV_BLE_2M_Ant1_2478_2387~2400



NTNV_BLE_2M_Ant1_2478_2483.5~2496.5

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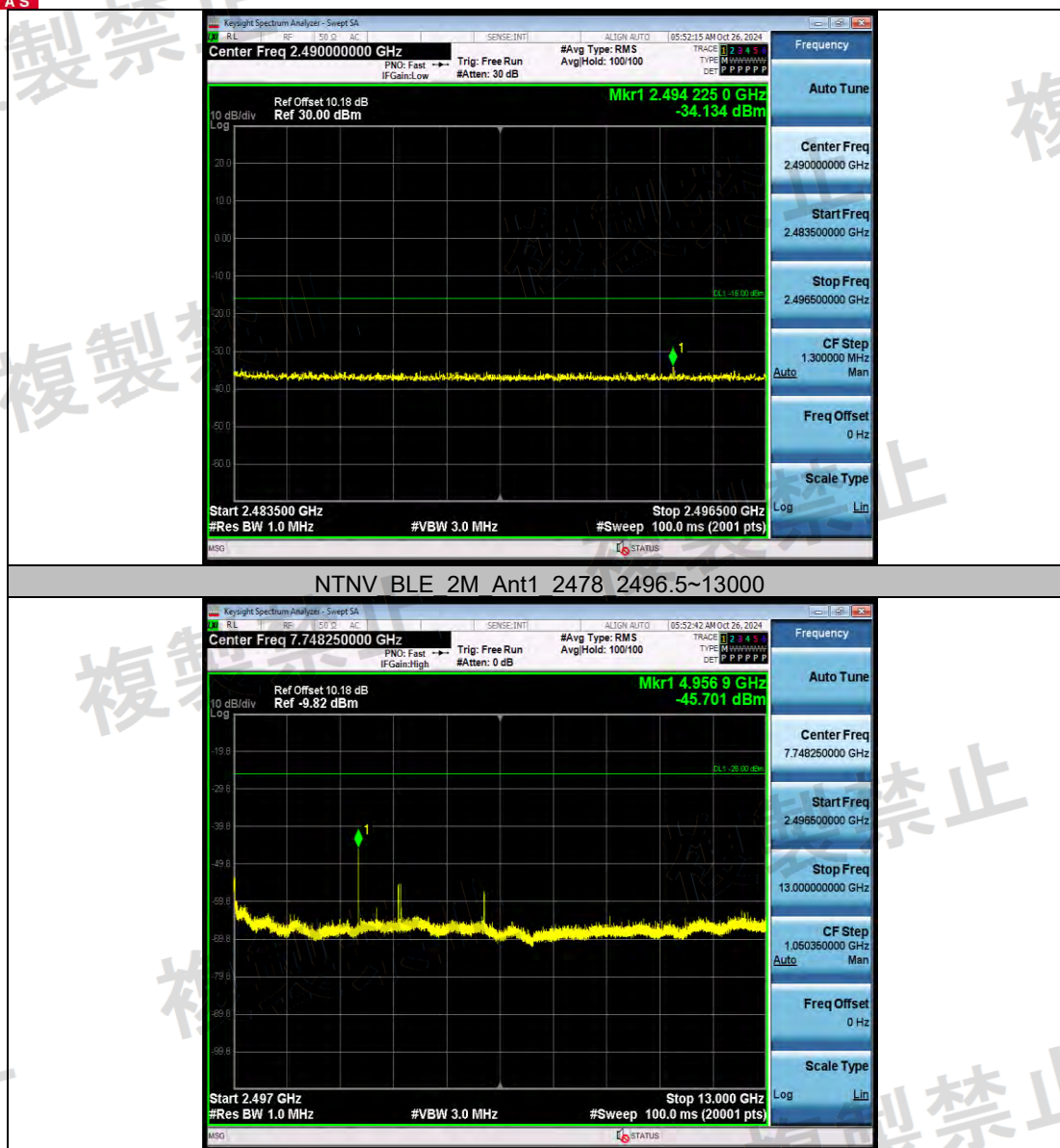
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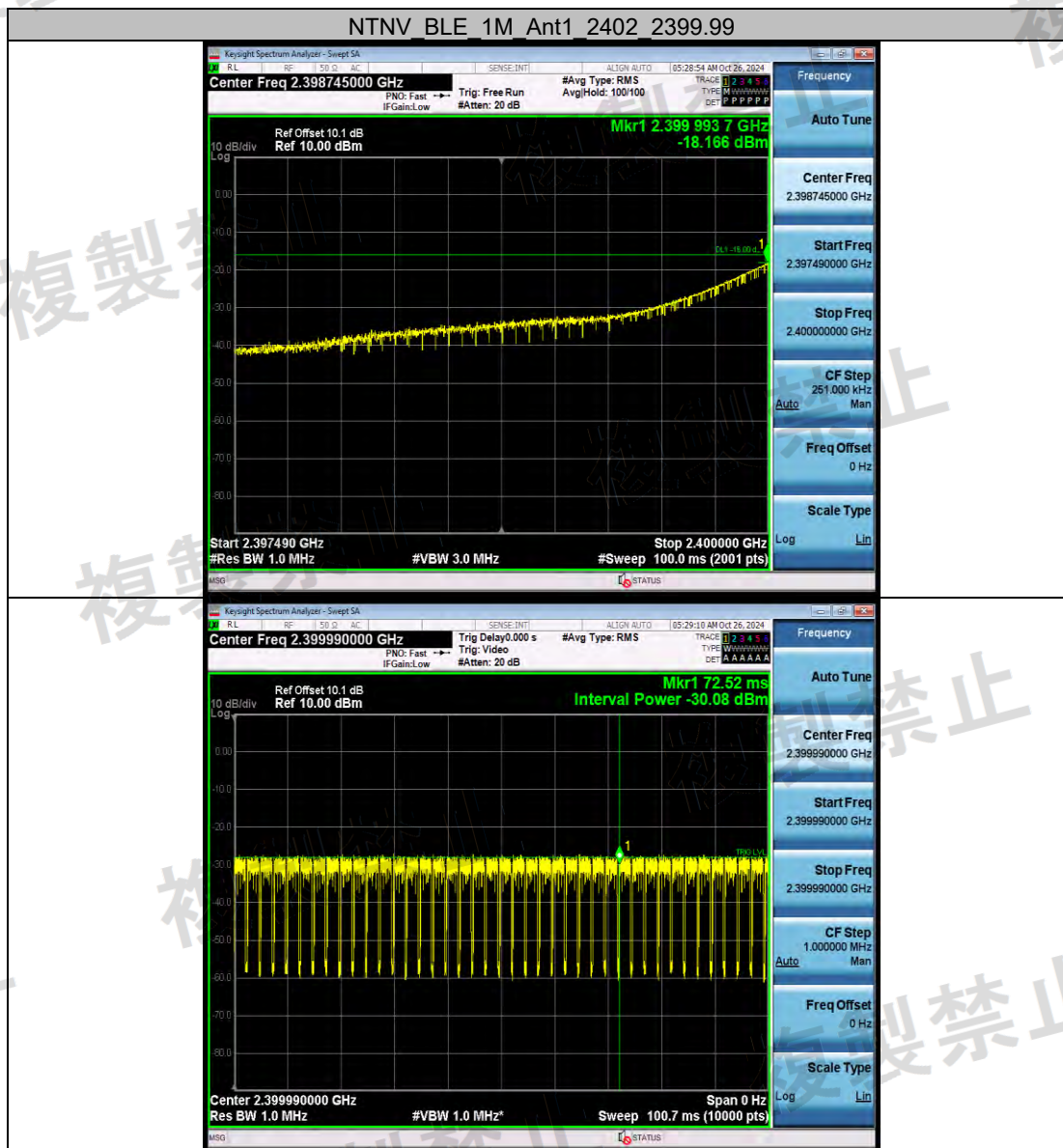
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Test Report No.: PSU-NQN2412110314RJ01

TEST GRAPHS_STEP2



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Spurious Emission of RX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-76.04	≤-54	0.02489	≤4	PASS
				1000~12500	-63.25	≤-47	0.47315	≤20	PASS
			2440	30~1000	-77.37	≤-54	0.01832	≤4	PASS
				1000~12500	-63.46	≤-47	0.45082	≤20	PASS
			2480	30~1000	-76.78	≤-54	0.02099	≤4	PASS
				1000~12500	-63.32	≤-47	0.46559	≤20	PASS
	BLE_2M	Ant1	2404	30~1000	-77.26	≤-54	0.01879	≤4	PASS
				1000~12500	-63.35	≤-47	0.46238	≤20	PASS
			2440	30~1000	-71.26	≤-54	0.07482	≤4	PASS
				1000~12500	-61.63	≤-47	0.68707	≤20	PASS
			2478	30~1000	-69.04	≤-54	0.12474	≤4	PASS
				1000~12500	-63.27	≤-47	0.47098	≤20	PASS

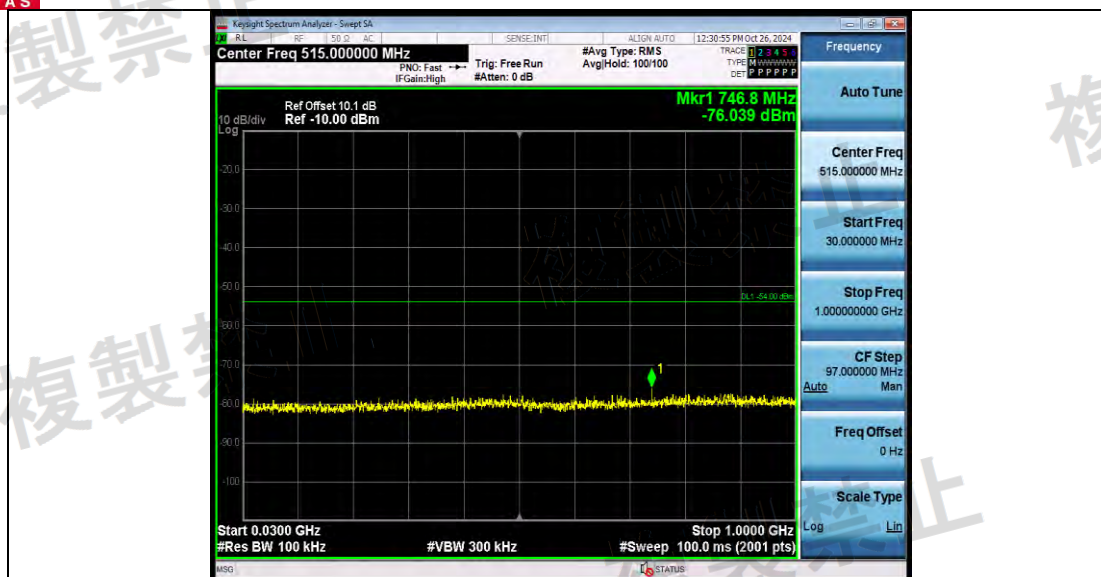
TEST GRAPHS

NTNV_BLE_1M_Ant1_2402_30~1000

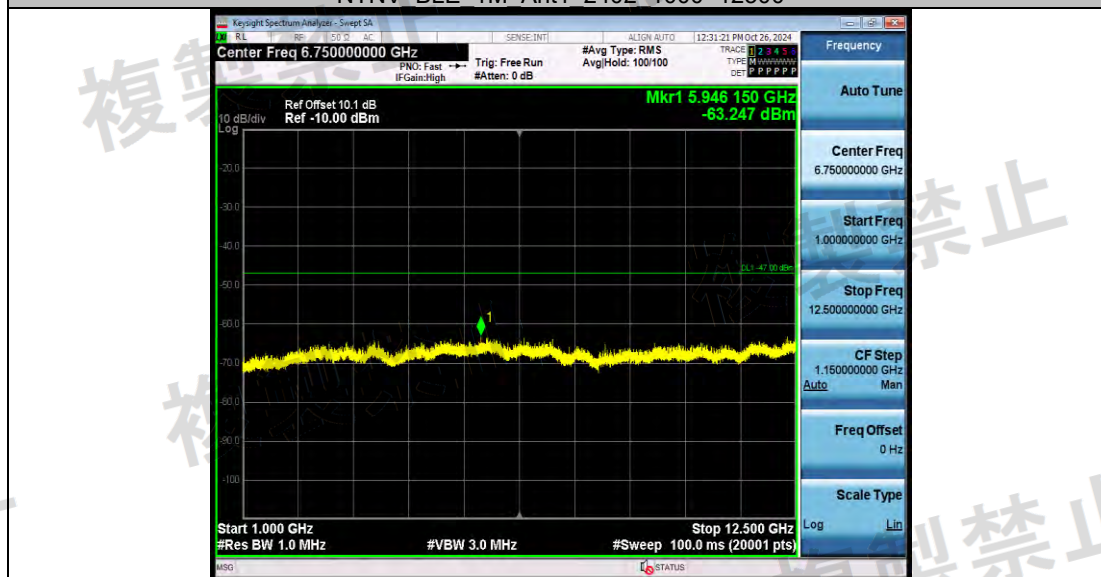


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NTNV_BLE_1M_Ant1_2402_1000~12500



NTNV_BLE_1M_Ant1_2440_30~1000

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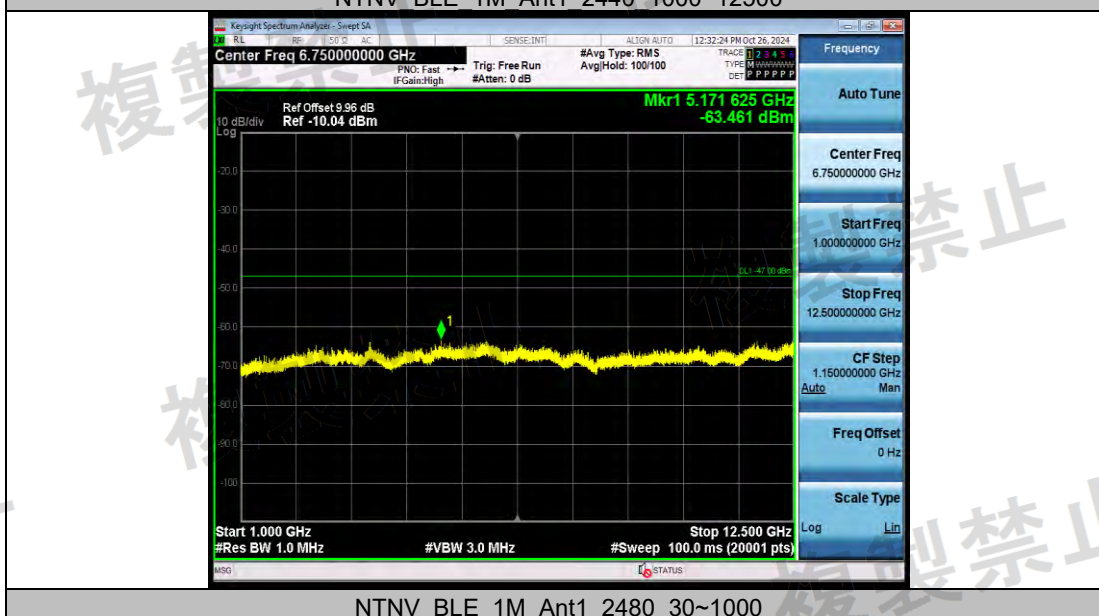
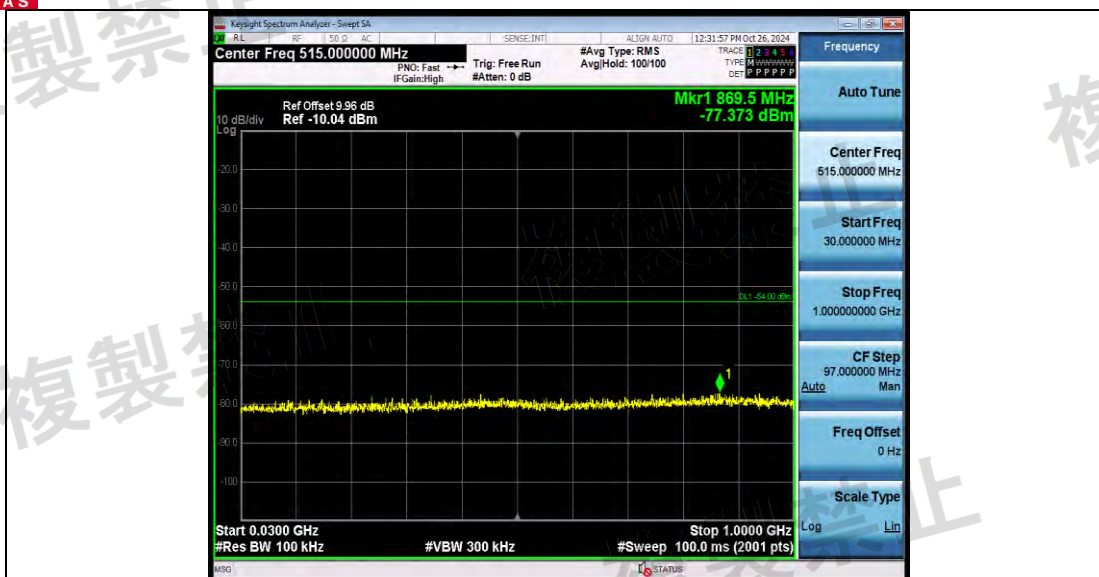
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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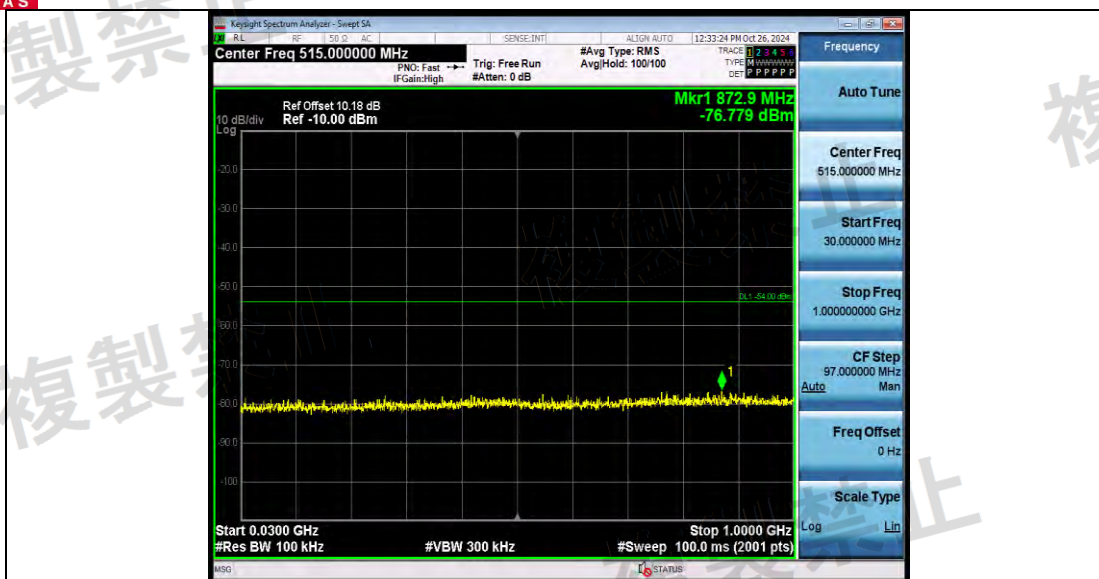
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NTNV BLE 1M Ant1 2480 1000~12500



NTNV BLE 2M Ant1 2404 30~1000

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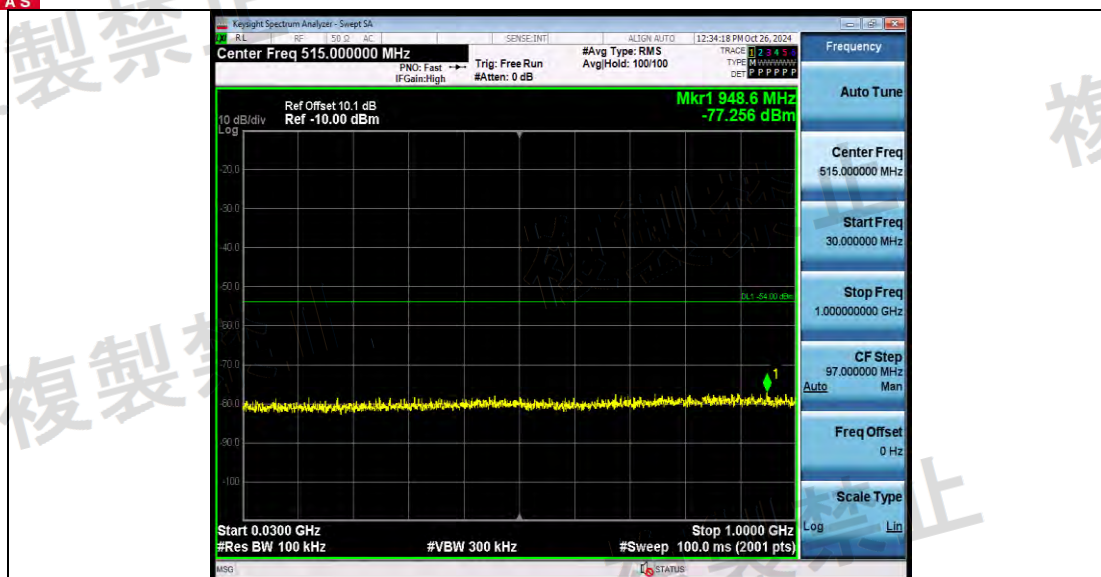
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NTNV_BLE_2M_Ant1_2404_1000~12500



NTNV_BLE_2M_Ant1_2440_30~1000

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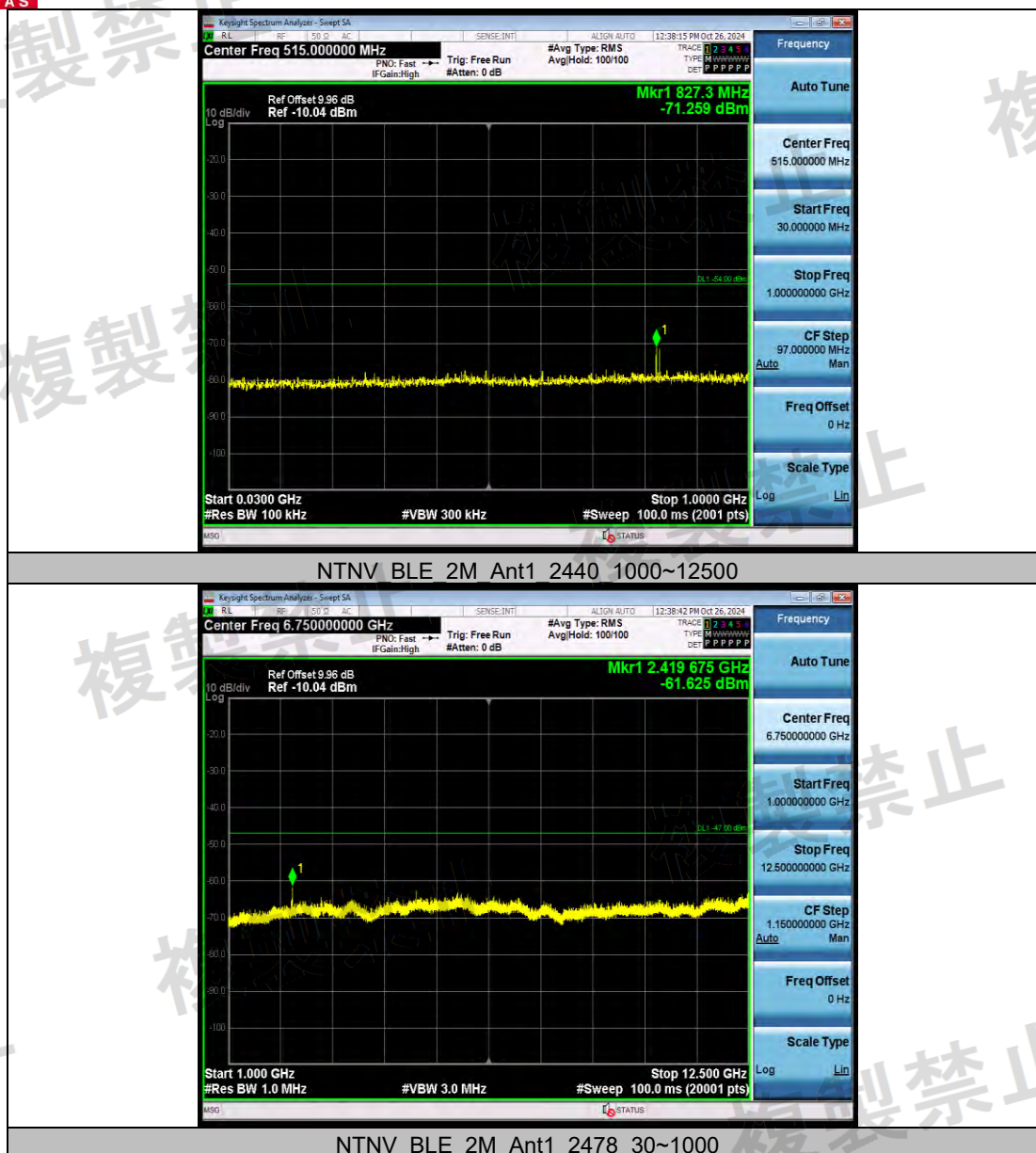
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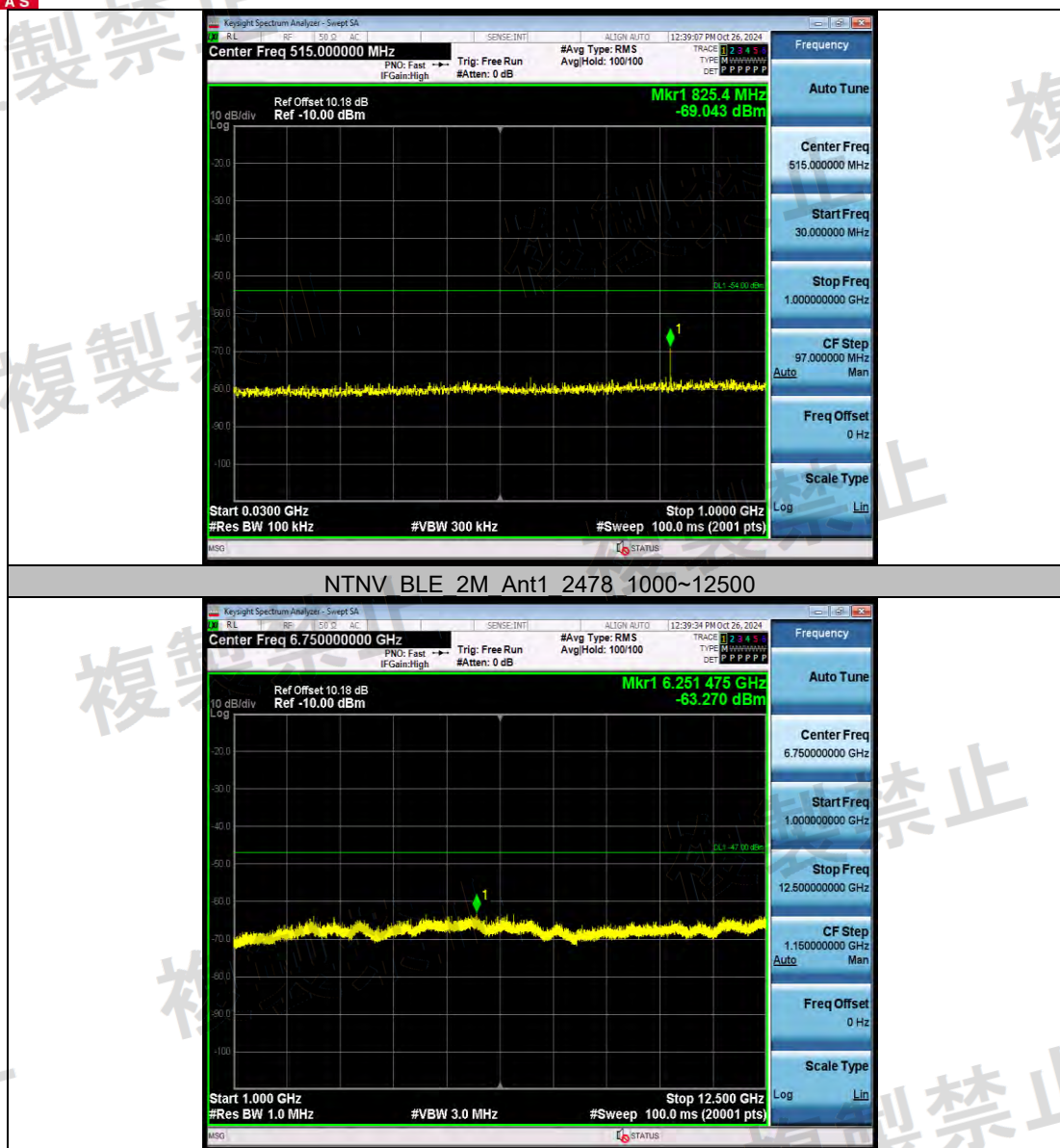
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LEFT EAR

Frequency Error

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	2401.997	-1.24896	±50	PASS
			2440	2440.012	+4.91803	±50	PASS
			2480	2480.021	+8.46774	±50	PASS
	BLE_2M	Ant1	2404	2403.979	-8.73544	±50	PASS
			2440	2439.991	-3.68853	±50	PASS
			2478	2477.97	-12.10654	±50	PASS

Note: Result[ppm]= (CenterFreq - Freq)/ Freq*1000000

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TEST GRAPHS



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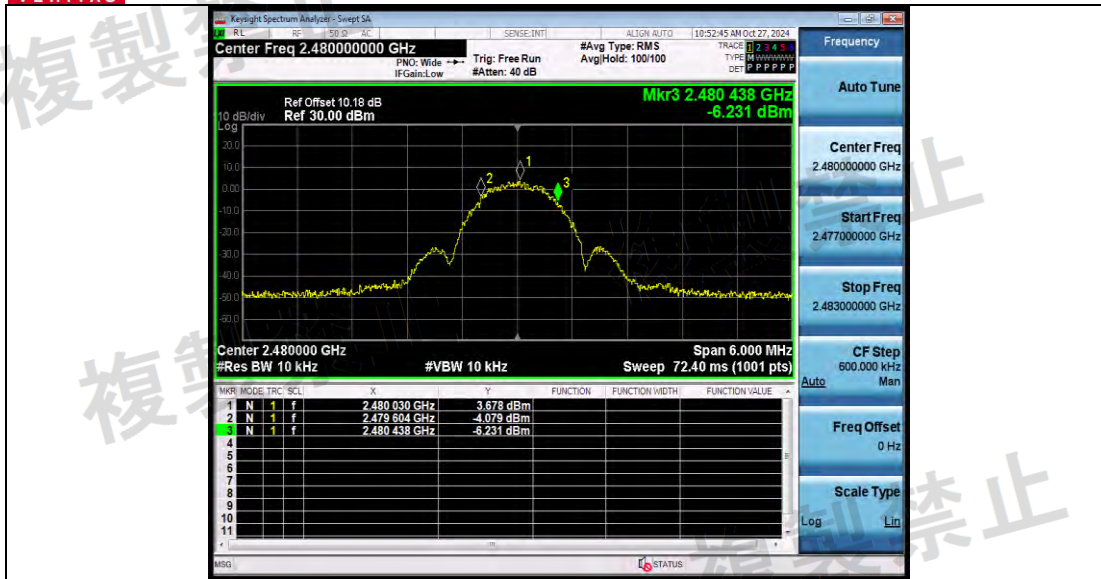
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NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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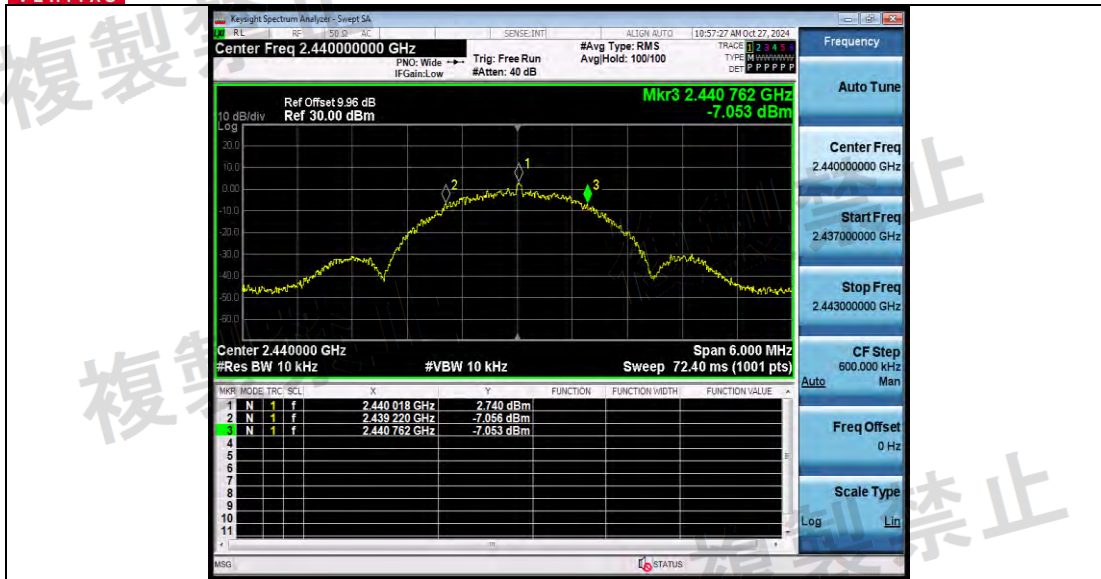
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NTNV BLE 2M Ant1 2478



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Antenna Power

TEST RESULT

Antenna Power							
TestCondition	TestMode	Antenna	Freq (MHz)	Result (dBm)	Result (mW)	Limit (mW)	Verdict
NTNV	BLE_1M	Ant1	2402	7.95	6.2373	≤10	PASS
			2440	7.46	5.5719	≤10	PASS
			2480	6.56	4.5290	≤10	PASS
	BLE_2M	Ant1	2404	7.93	6.2087	≤10	PASS
			2440	7.35	5.4325	≤10	PASS
			2478	7.52	5.6494	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	6.2373	7	-10.896	-80 to +20	PASS
			2440	5.5719	7	-20.401	-80 to +20	PASS
			2480	4.5290	7	-35.300	-80 to +20	PASS
	BLE_2M	Ant1	2404	6.2087	7	-11.304	-80 to +20	PASS
			2440	5.4325	7	-22.393	-80 to +20	PASS
			2478	5.6494	7	-19.294	-80 to +20	PASS

EIRP								
TestCondition	TestMode	Antenna	Freq (MHz)	Result (dBm)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	7.95	3.10	2.04	≤12.14	PASS
			2440	7.46	2.61	1.82	≤12.14	PASS
			2480	6.56	1.71	1.48	≤12.14	PASS
	BLE_2M	Ant1	2404	7.93	3.08	2.03	≤12.14	PASS
			2440	7.35	2.50	1.78	≤12.14	PASS
			2478	7.52	2.67	1.85	≤12.14	PASS



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Occupied Bandwidth

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.033	≤26	PASS
			2440	1.046	≤26	PASS
			2480	1.048	≤26	PASS
	BLE_2M	Ant1	2404	2.050	≤26	PASS
			2440	2.052	≤26	PASS
			2478	2.061	≤26	PASS



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TEST GRAPHS



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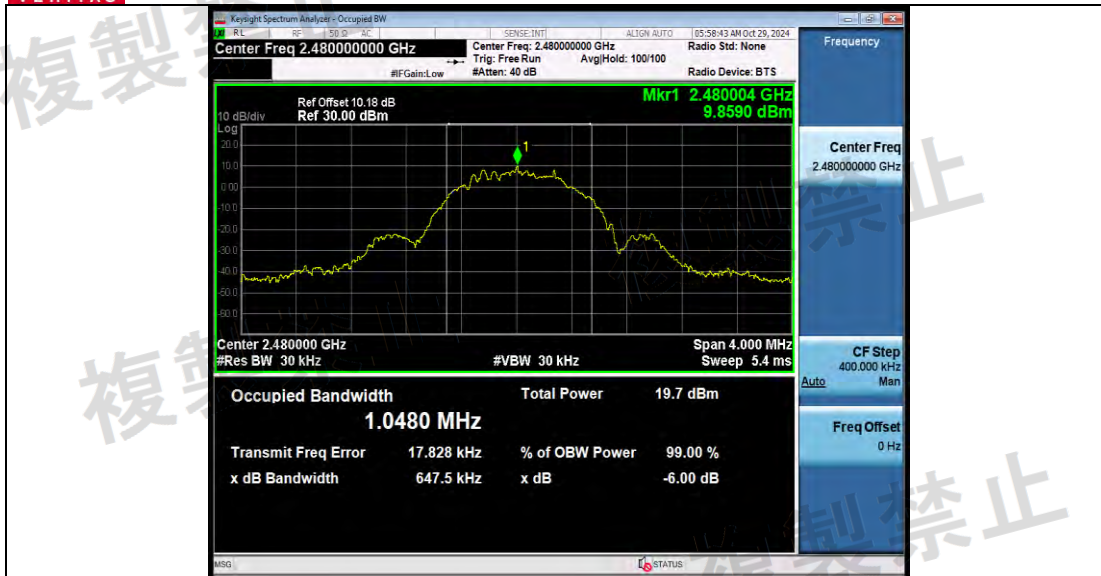
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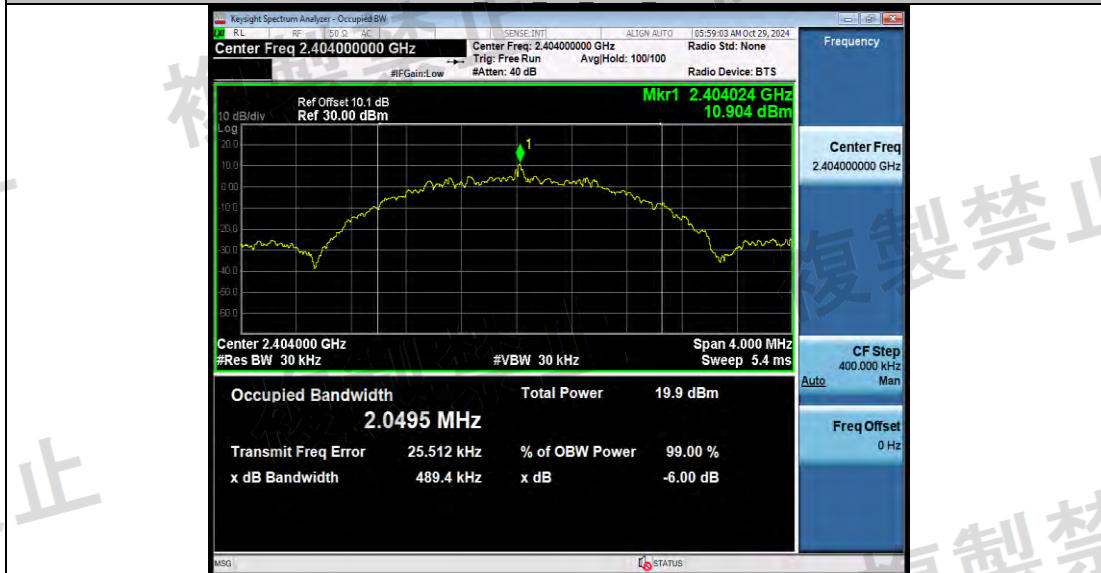


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NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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NTNV BLE 2M Ant1 2478



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Spread Bandwidth

TEST RESULT

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.667	≥ 0.5	PASS
			2440	0.672	≥ 0.5	PASS
			2480	0.673	≥ 0.5	PASS
	BLE_2M	Ant1	2404	1.342	≥ 0.5	PASS
			2440	1.348	≥ 0.5	PASS
			2478	1.333	≥ 0.5	PASS



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TEST GRAPHS



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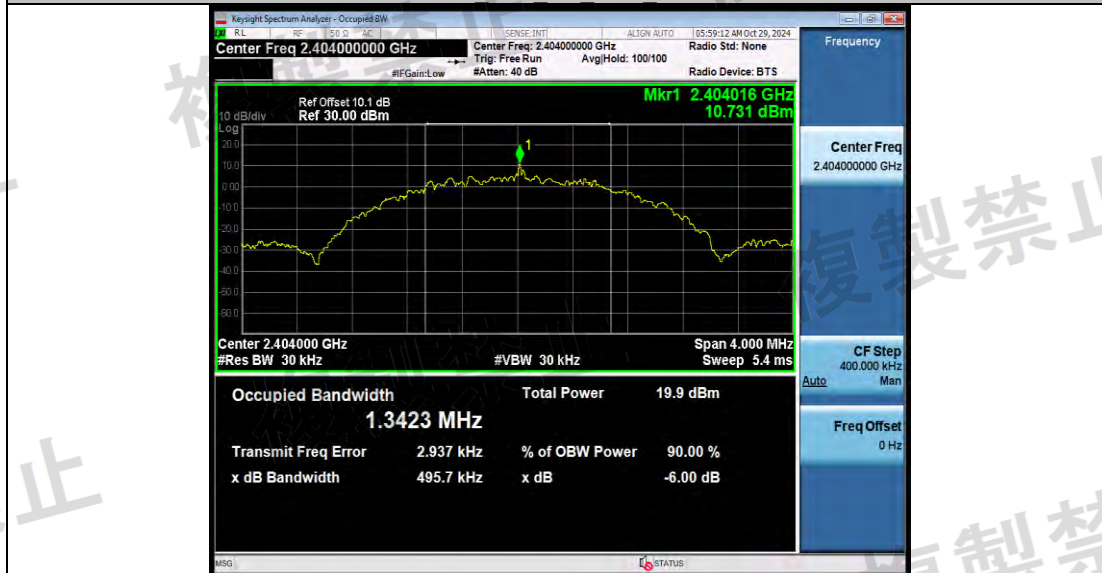


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NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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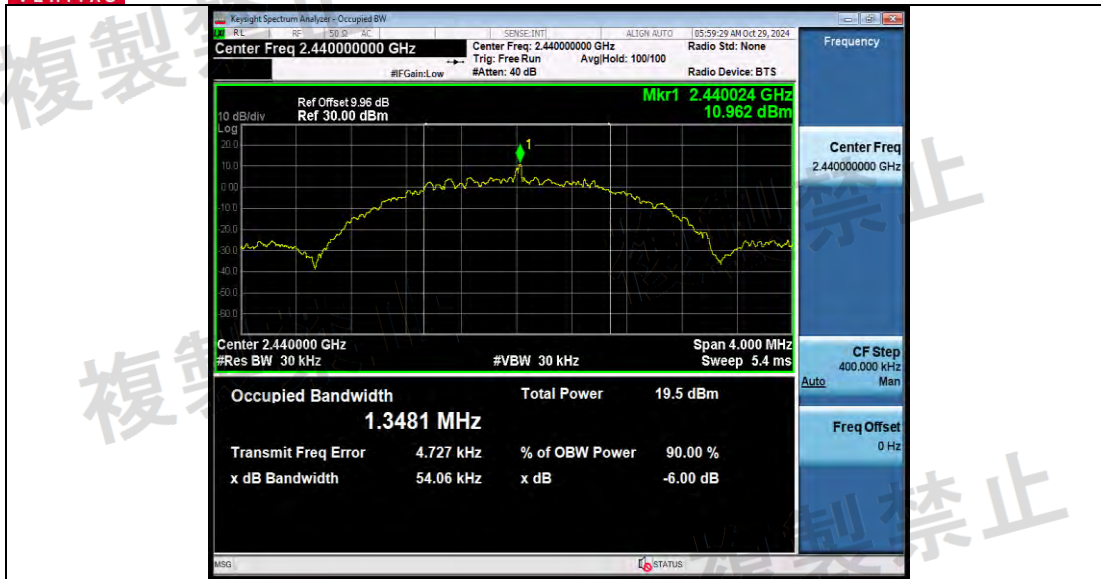
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NTNV BLE 2M Ant1 2478



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Spurious Emission of TX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Result [dBm/Mhz z]	Limit [dBm/Mhz]	Result [μW/Mhz z]	Limit [μW/Mhz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-44.02	≤-26	0.03963	≤2.5	PASS
				1000~2387	-43.31	≤-26	0.04667	≤2.5	PASS
				2387~2400	-19.74	≤-16	10.61696	≤25	PASS
				2483.5~2496.5	-34.79	≤-16	0.33189	≤25	PASS
				2496.5~13000	-48.31	≤-26	0.01476	≤2.5	PASS
			2440	30~1000	-43.92	≤-26	0.04055	≤2.5	PASS
				1000~2387	-43.37	≤-26	0.04603	≤2.5	PASS
				2387~2400	-34.99	≤-16	0.31696	≤25	PASS
				2483.5~2496.5	-35.04	≤-16	0.31333	≤25	PASS
				2496.5~13000	-45.78	≤-26	0.02642	≤2.5	PASS
			2480	30~1000	-43.91	≤-26	0.04064	≤2.5	PASS
				1000~2387	-43.23	≤-26	0.04753	≤2.5	PASS
				2387~2400	-34.79	≤-16	0.33189	≤25	PASS
				2483.5~2496.5	-32.75	≤-16	0.53088	≤25	PASS
				2496.5~13000	-49.21	≤-26	0.01199	≤2.5	PASS
	BLE_2M	Ant1	2404	30~1000	-43.47	≤-26	0.04498	≤2.5	PASS
				1000~2387	-43.23	≤-26	0.04753	≤2.5	PASS
				2387~2400	-31.31	≤-16	0.73961	≤25	PASS
				2483.5~2496.5	-34.57	≤-16	0.34914	≤25	PASS
				2496.5~13000	-48.74	≤-26	0.01337	≤2.5	PASS
			2440	30~1000	-44.40	≤-26	0.03631	≤2.5	PASS
				1000~2387	-42.89	≤-26	0.05140	≤2.5	PASS
				2387~2400	-35.26	≤-16	0.29785	≤25	PASS
				2483.5~2496.5	-34.66	≤-16	0.34198	≤25	PASS
				2496.5~13000	-45.71	≤-26	0.02685	≤2.5	PASS
			2478	30~1000	-44.21	≤-26	0.03793	≤2.5	PASS
				1000~2387	-43.56	≤-26	0.04406	≤2.5	PASS
				2387~2400	-34.75	≤-16	0.33497	≤25	PASS
				2483.5~2496.5	-34.12	≤-16	0.38726	≤25	PASS
				2496.5~13000	-50.37	≤-26	0.00918	≤2.5	PASS

TEST GRAPHS

NTNV_BLE_1M_Ant1_2402_30~1000

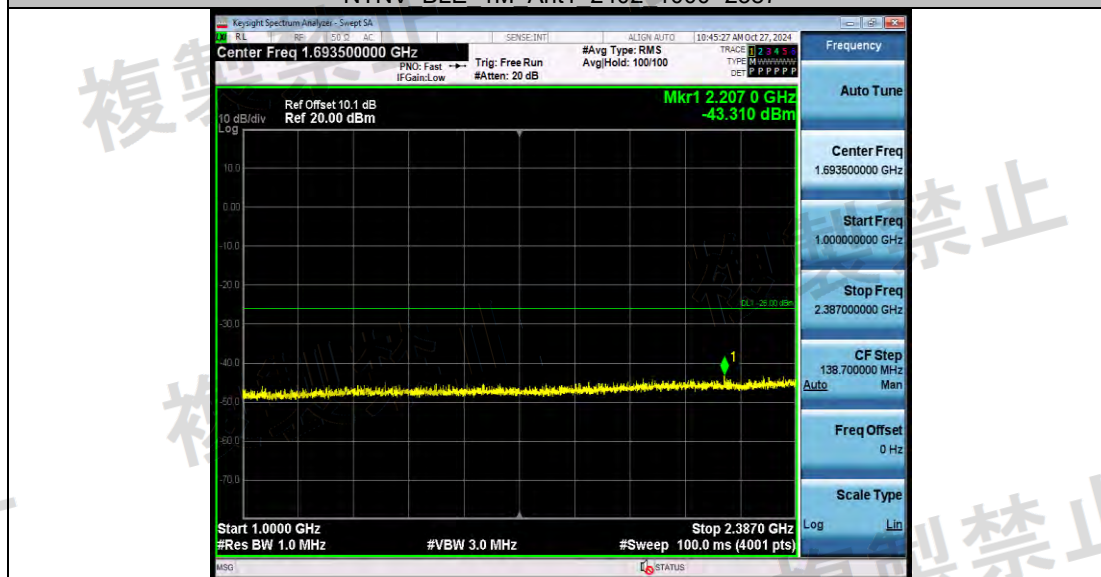


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NTNV_BLE_1M_Ant1_2402_1000~2387



NTNV_BLE_1M_Ant1_2402_2387~2400

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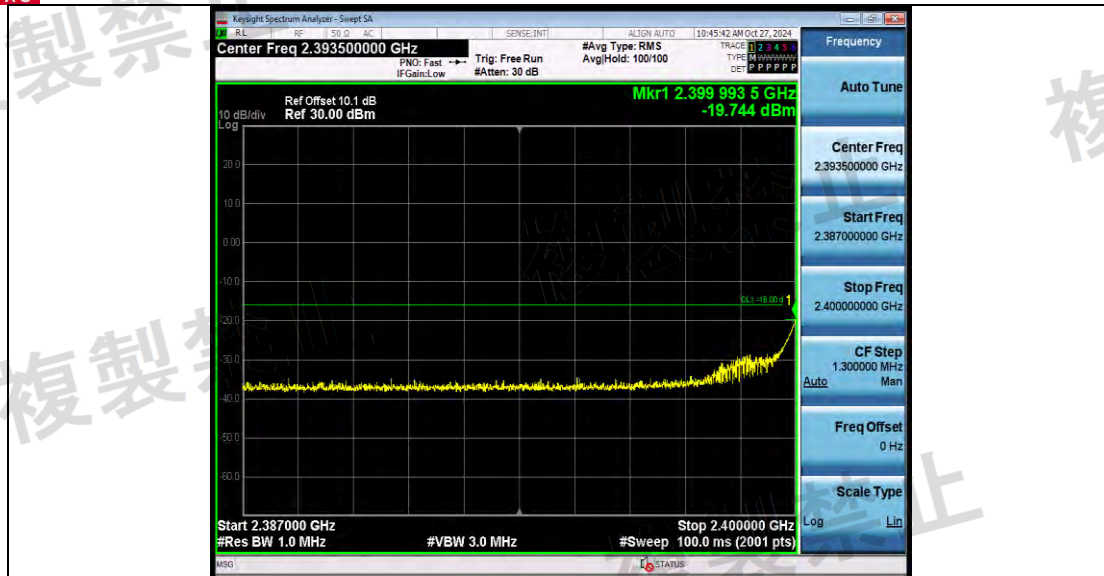
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NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



NTNV_BLE_1M_Ant1_2402_2496.5~13000

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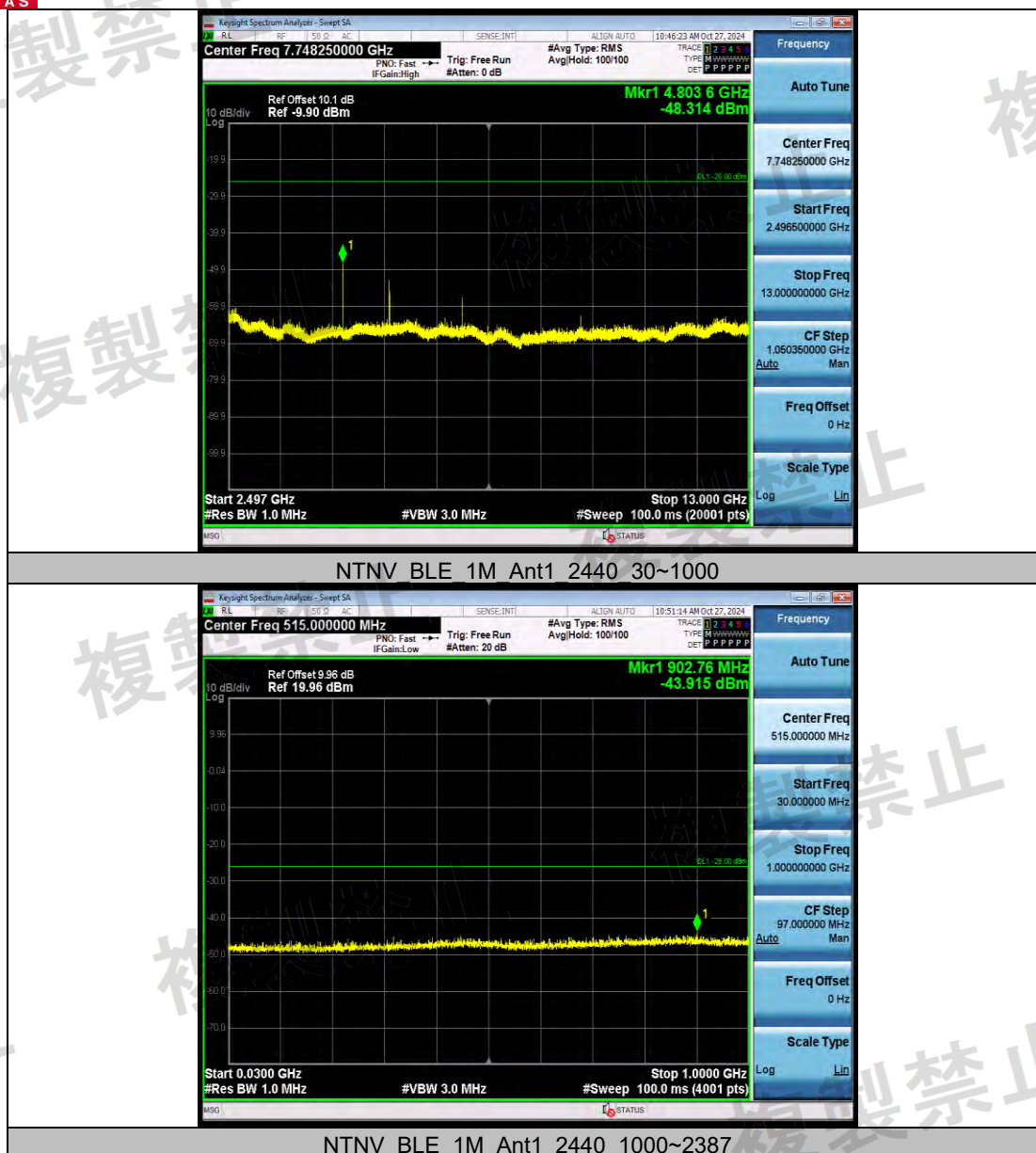
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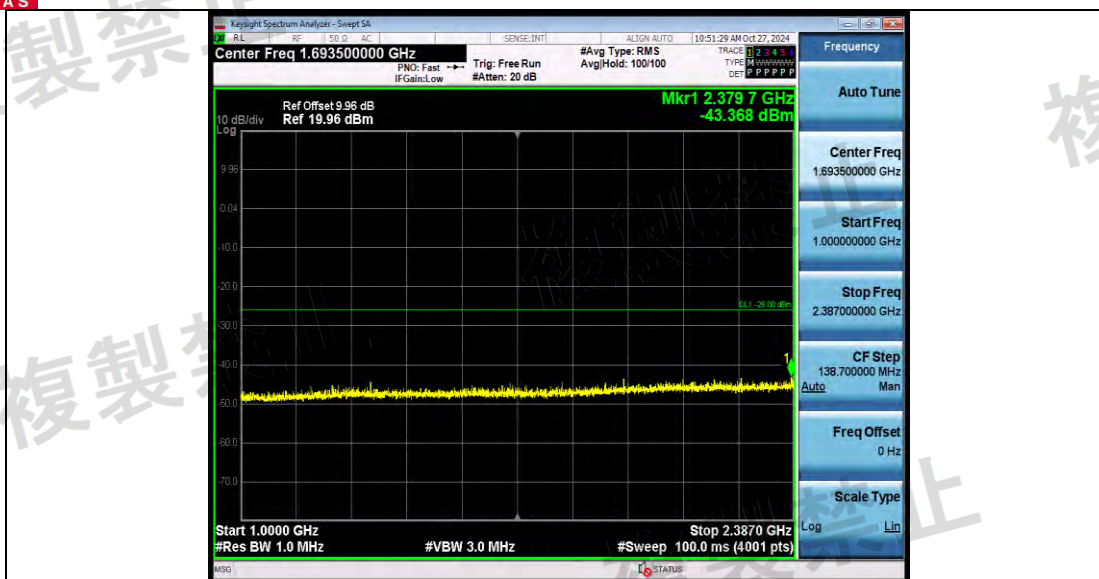
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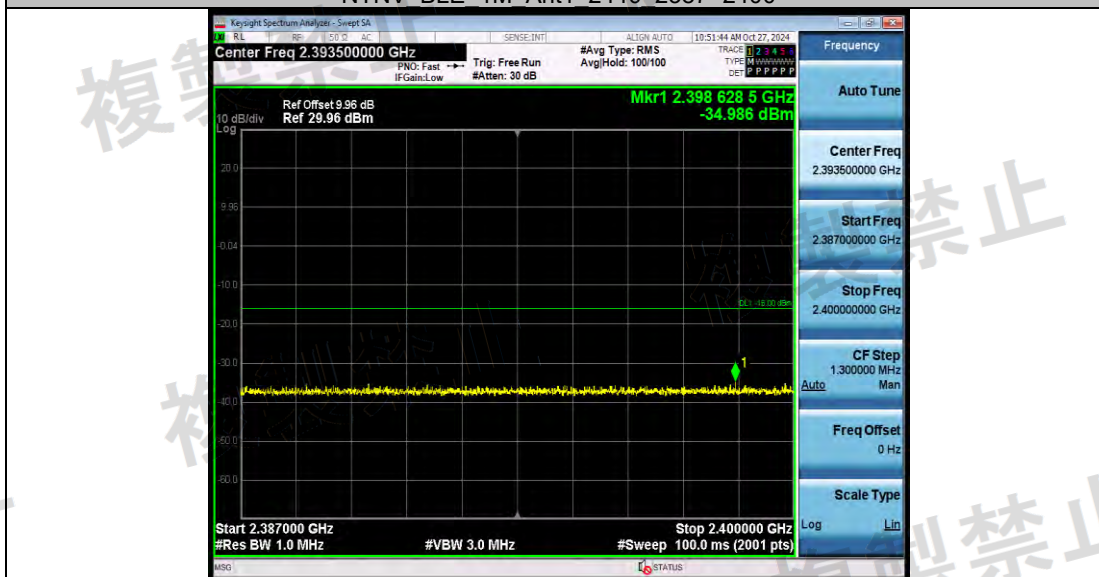


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NTNV_BLE_1M_Ant1_2440_2387~2400



NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

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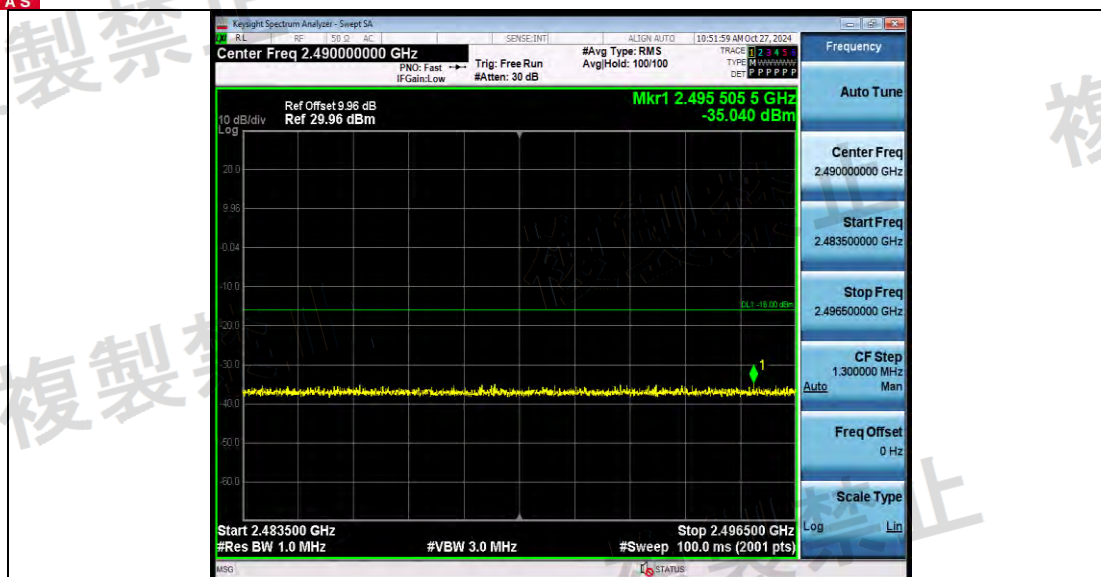
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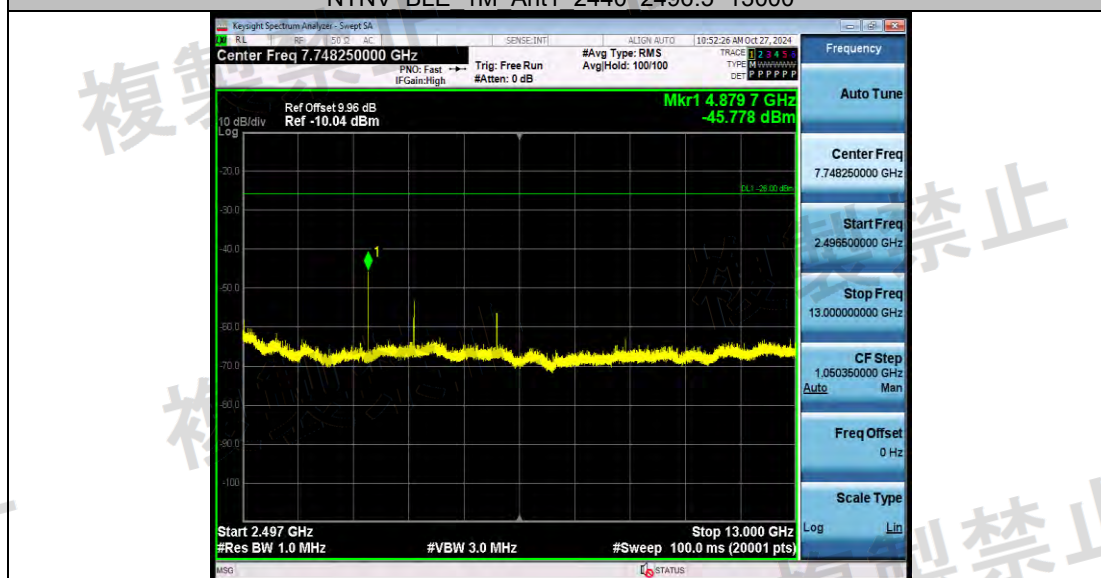


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NTNV_BLE_1M_Ant1_2440_2496.5~13000



NTNV_BLE_1M_Ant1_2480_30~1000

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NTNV_BLE_1M_Ant1_2480_1000~2387



NTNV_BLE_1M_Ant1_2480_2387~2400

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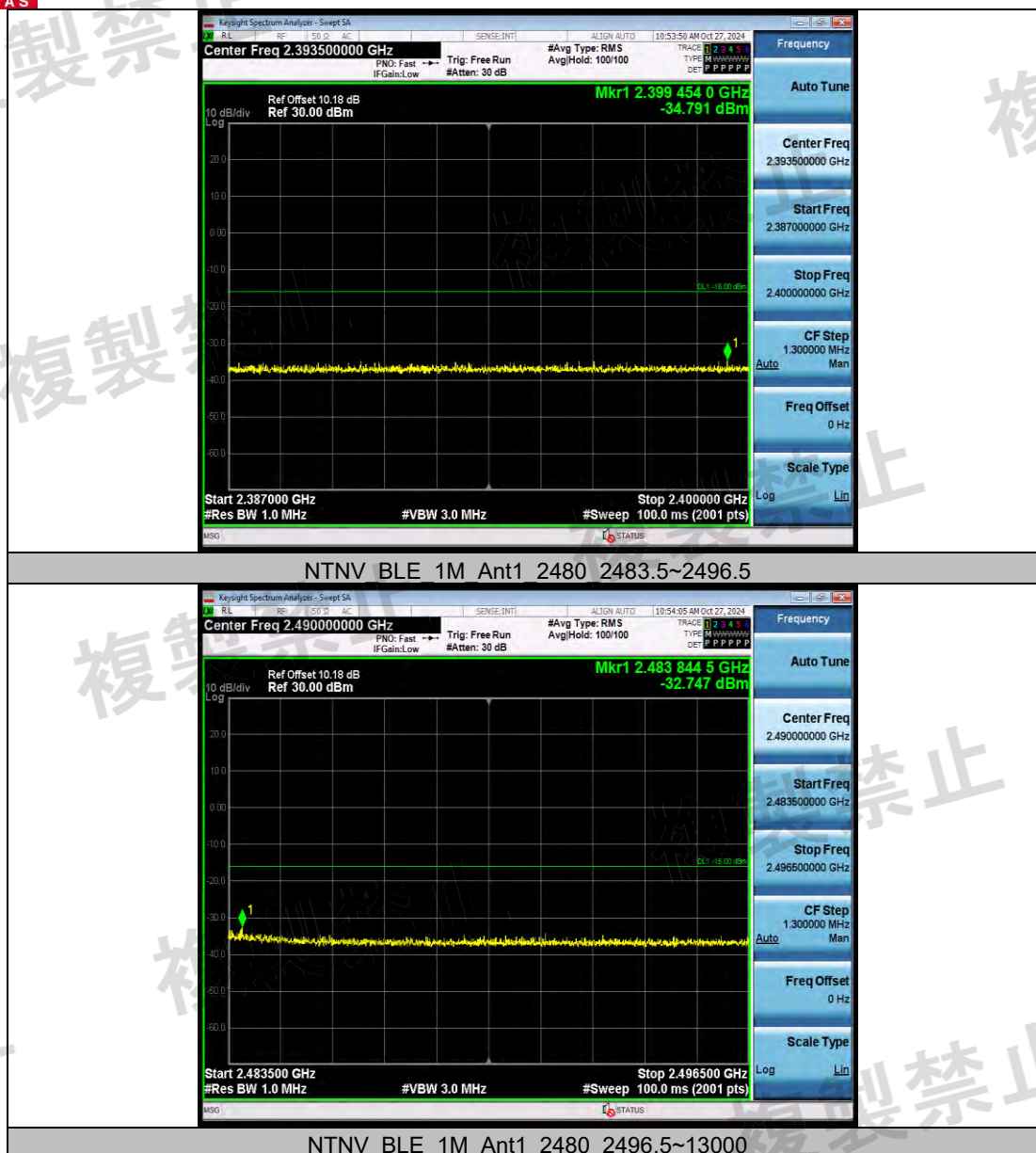
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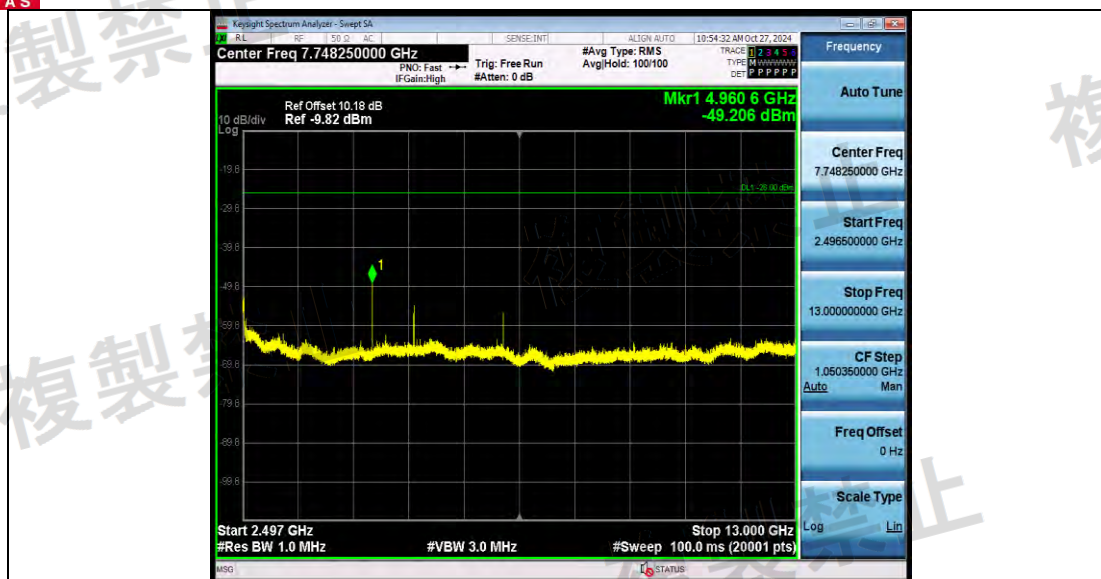
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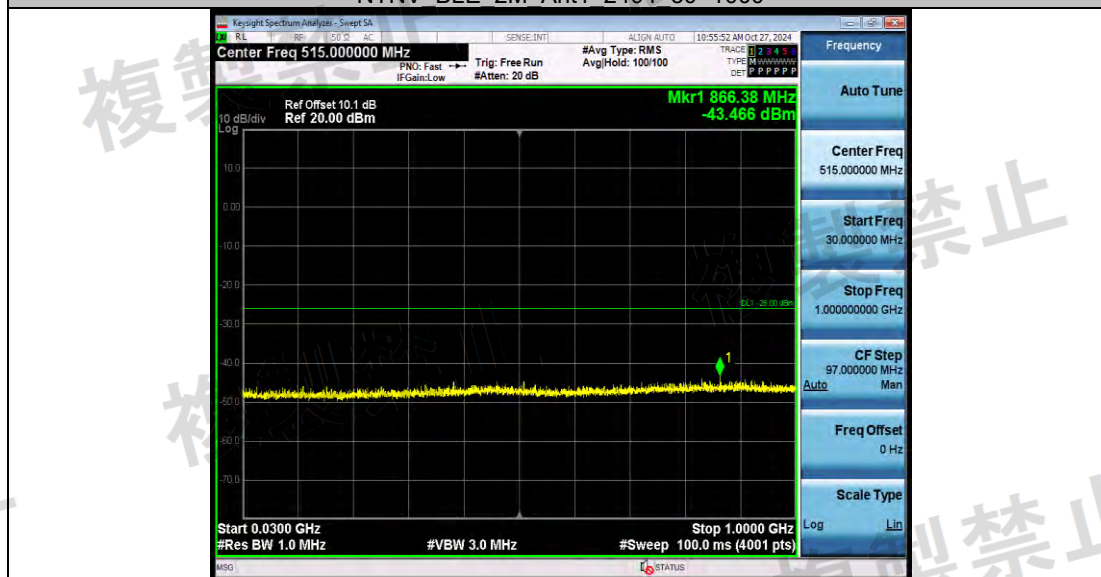


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Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2404_30~1000



NTNV_BLE_2M_Ant1_2404_1000~2387

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(Shenzhen) Co., Ltd

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NTNV_BLE_2M_Ant1_2404_2387~2400



NTNV_BLE_2M_Ant1_2404_2483.5~2496.5

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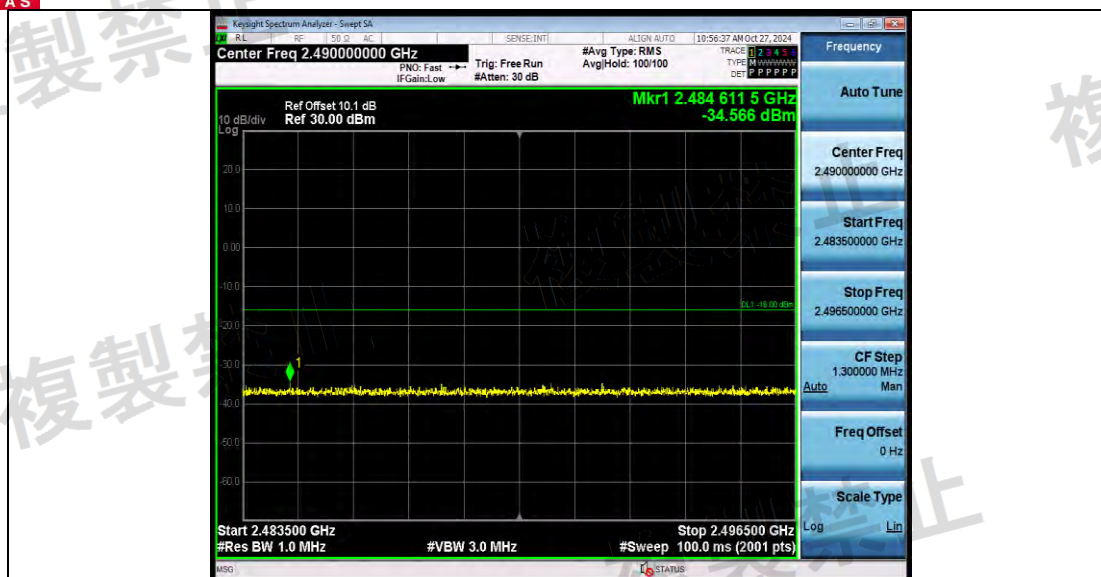
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
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Email: customerservice.sw@bureauveritas.com

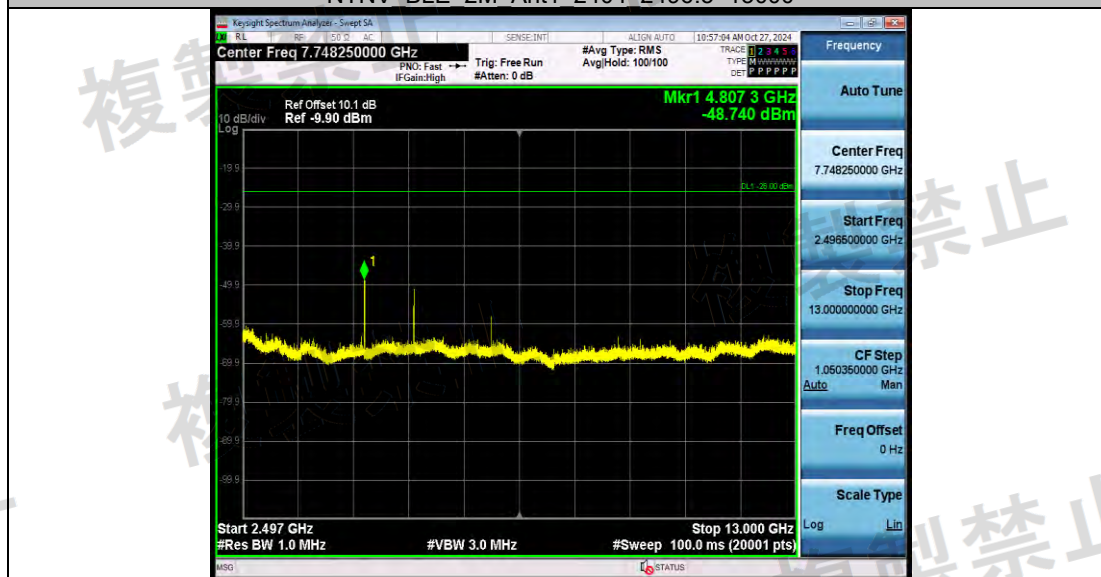


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Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2404_2496.5~13000



NTNV_BLE_2M_Ant1_2440_30~1000

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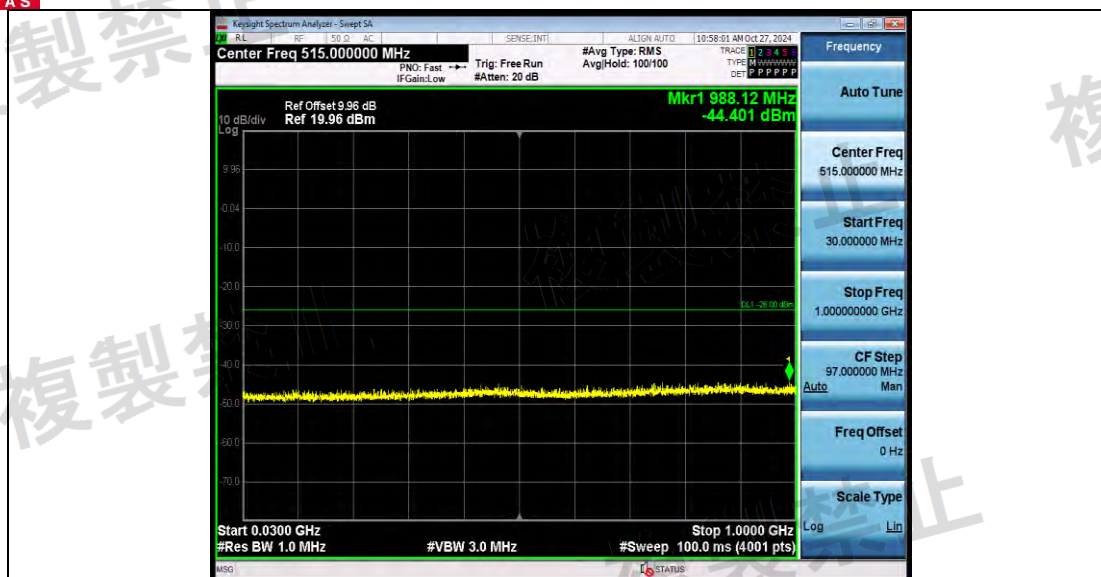
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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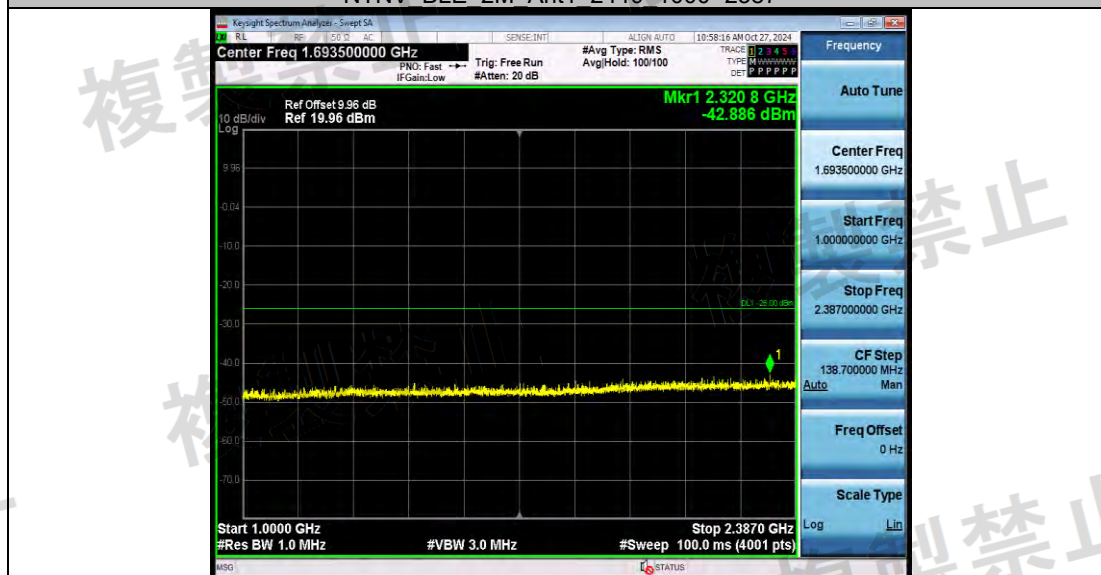


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Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2440_1000~2387



NTNV_BLE_2M_Ant1_2440_2387~2400

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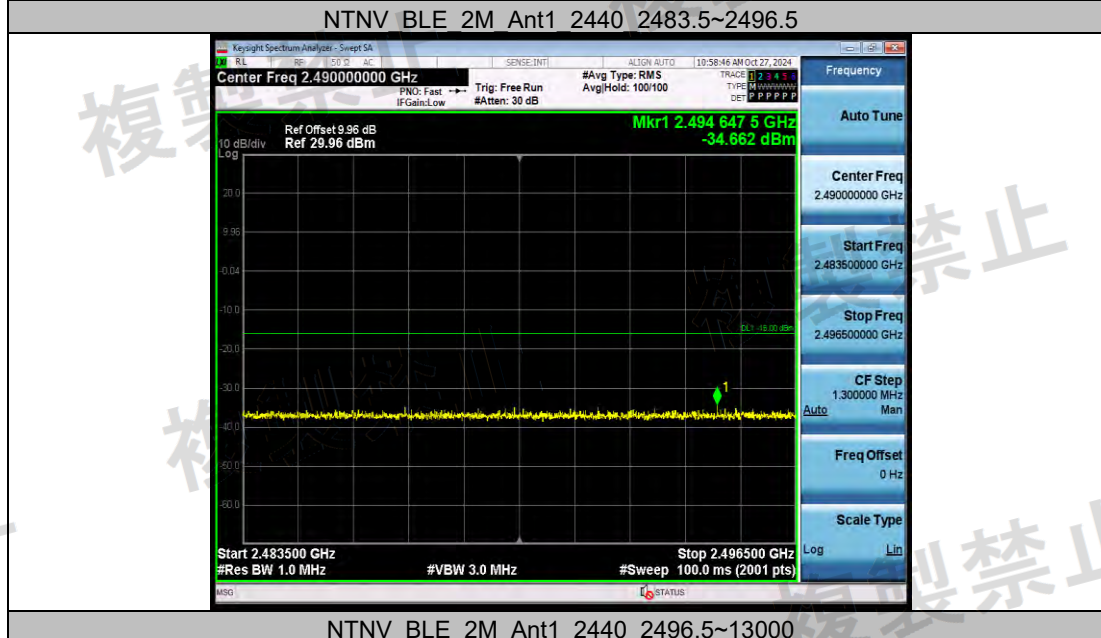
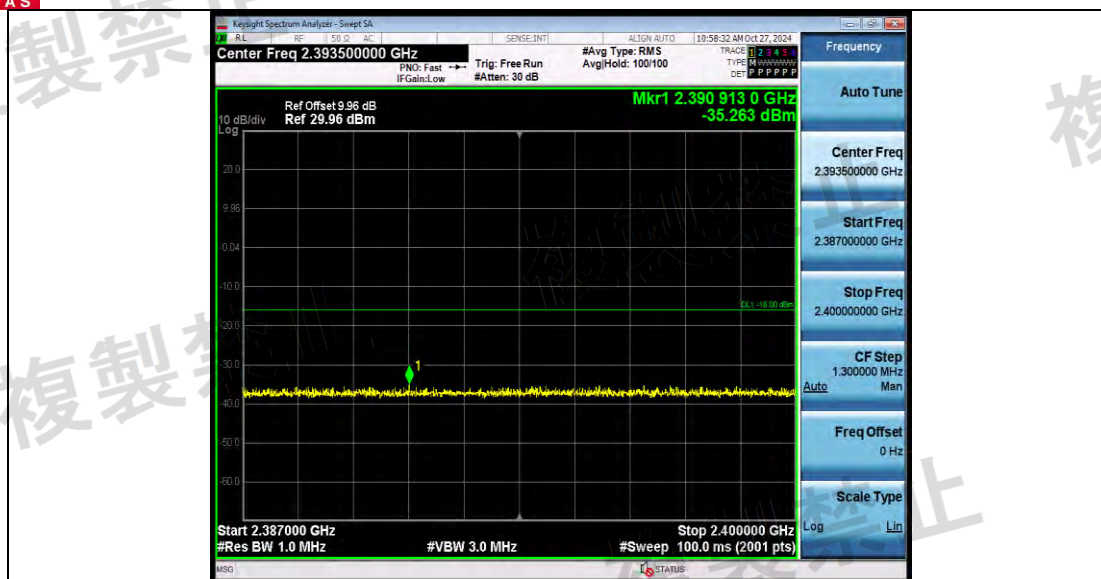
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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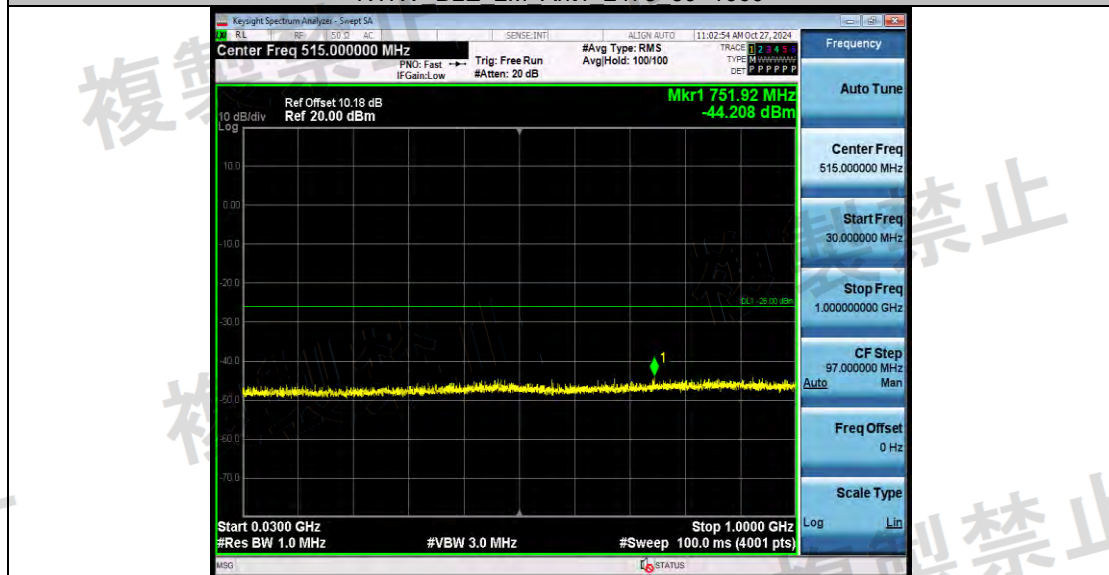


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Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2478_30~1000



NTNV_BLE_2M_Ant1_2478_1000~2387

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NTNV_BLE_2M_Ant1_2478_2387~2400



NTNV_BLE_2M_Ant1_2478_2483.5~2496.5

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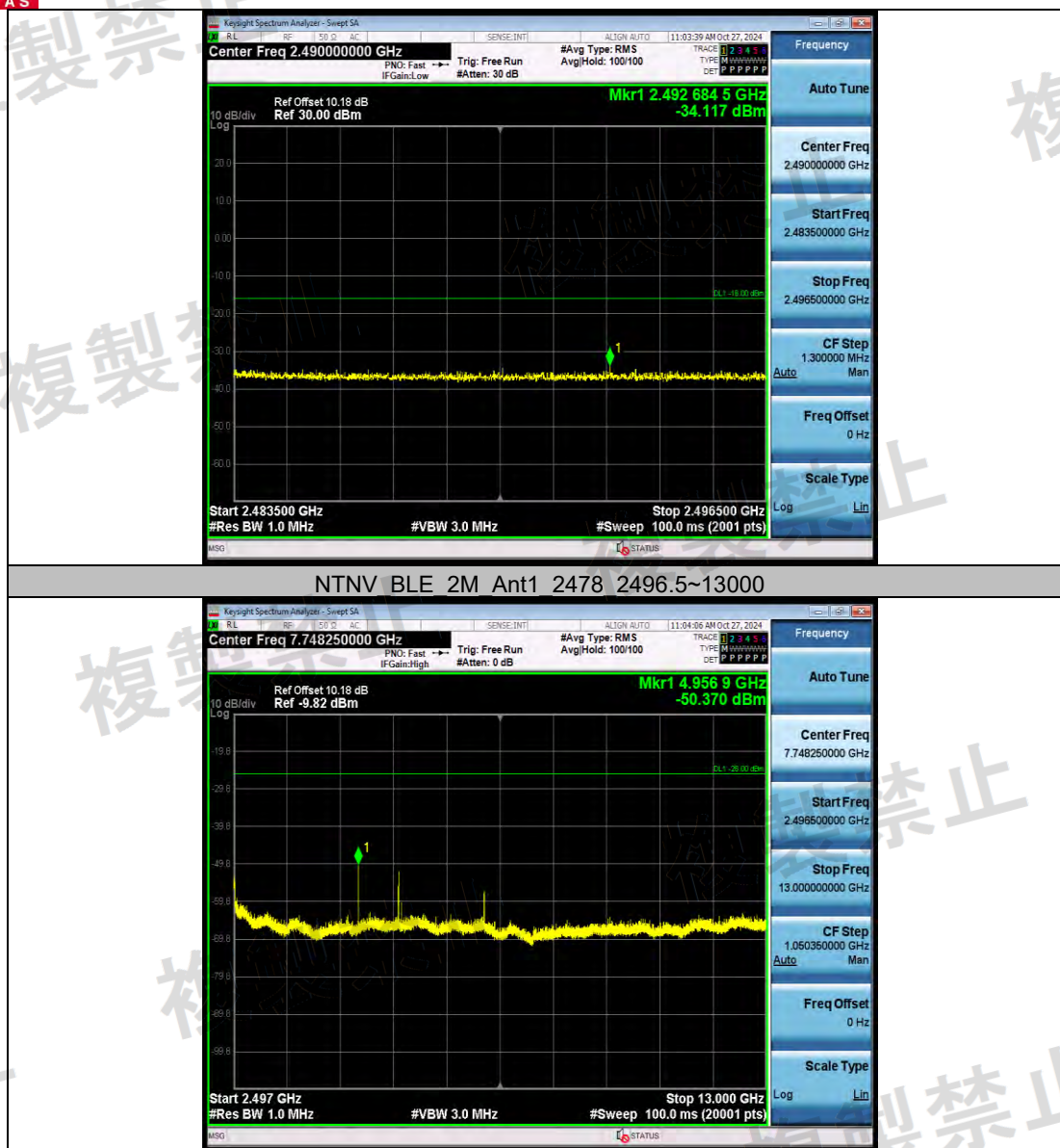
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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Spurious Emission of RX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-76.46	≤-54	0.02259	≤4	PASS
				1000~12500	-63.24	≤-47	0.47424	≤20	PASS
			2440	30~1000	-75.99	≤-54	0.02518	≤4	PASS
				1000~12500	-63.19	≤-47	0.47973	≤20	PASS
			2480	30~1000	-76.32	≤-54	0.02333	≤4	PASS
				1000~12500	-61.97	≤-47	0.63533	≤20	PASS
	BLE_2M	Ant1	2404	30~1000	-76.62	≤-54	0.02178	≤4	PASS
				1000~12500	-62.8	≤-47	0.52481	≤20	PASS
			2440	30~1000	-76.81	≤-54	0.02084	≤4	PASS
				1000~12500	-56.62	≤-47	2.17771	≤20	See table below
			2478	30~1000	-76.46	≤-54	0.02259	≤4	PASS
				1000~12500	-60.98	≤-47	0.79799	≤20	PASS

TEST RESULT_STEP2

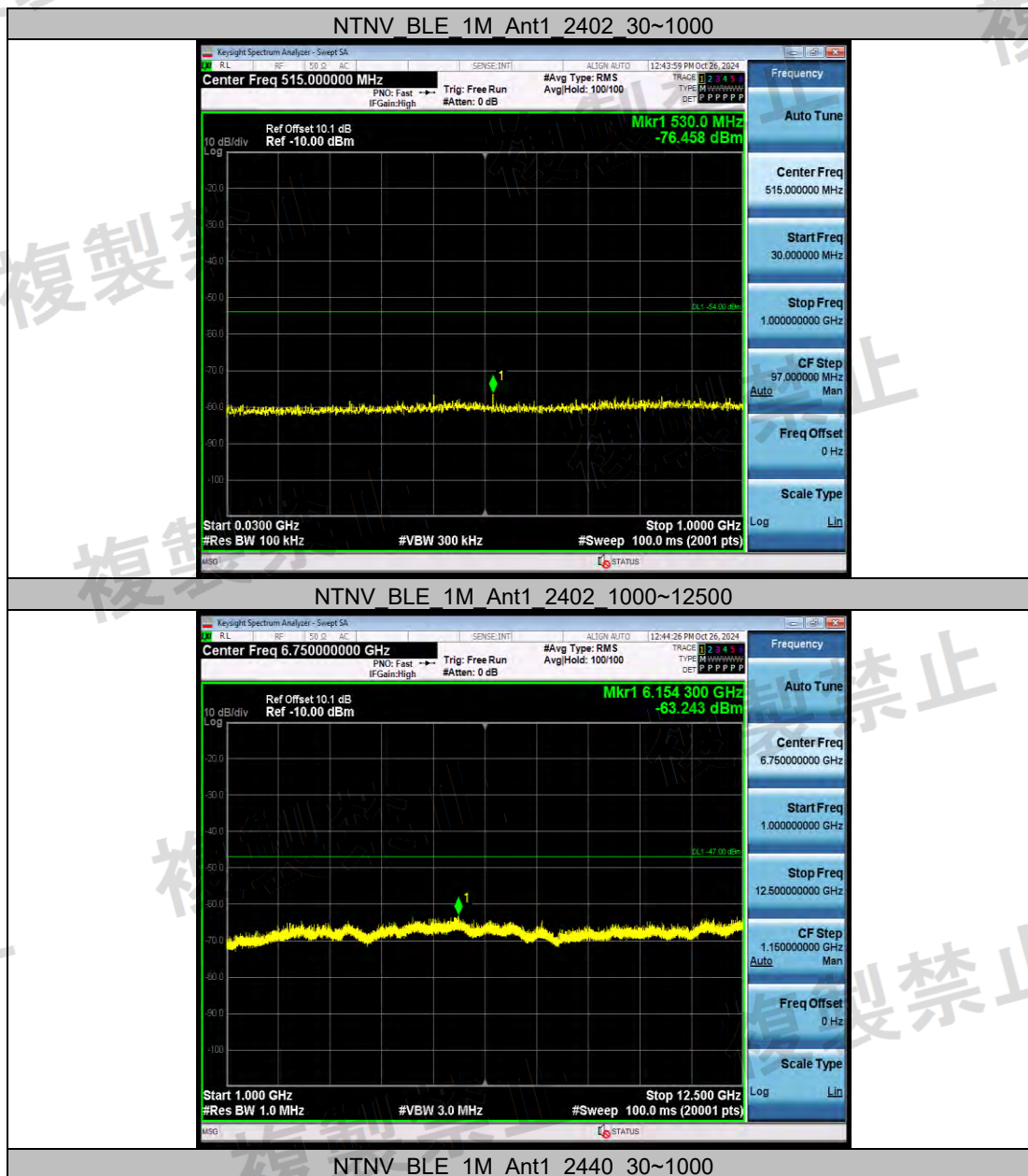
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_2M	Ant1	2440	3401.69	-79.40	≤-47	0.01148	≤20	PASS



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VERITAS

Test Report No.: PSU-NQN2412110314RJ01

TEST GRAPHS



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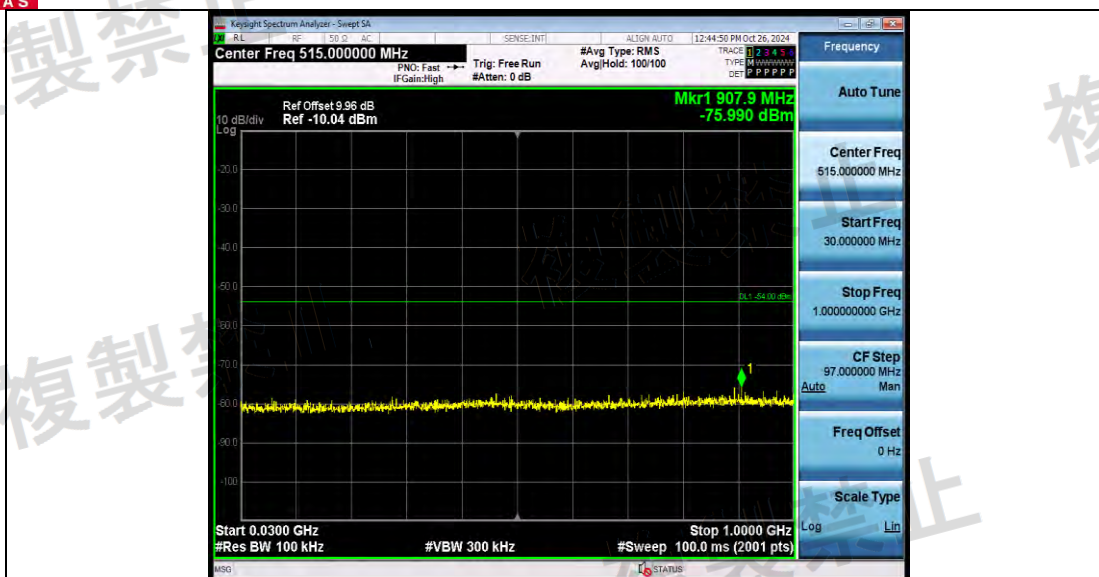
Fax: +86 755 8869 6577

Email: customerservice.sw@bureauveritas.com

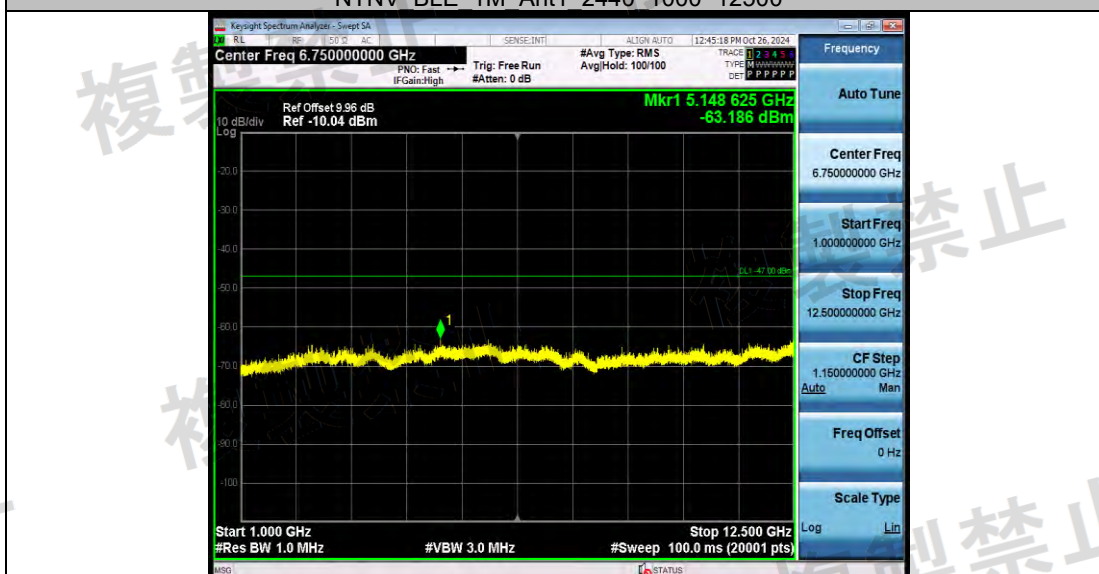


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VERITAS

Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_1M_Ant1_2440_1000~12500



NTNV_BLE_1M_Ant1_2480_30~1000

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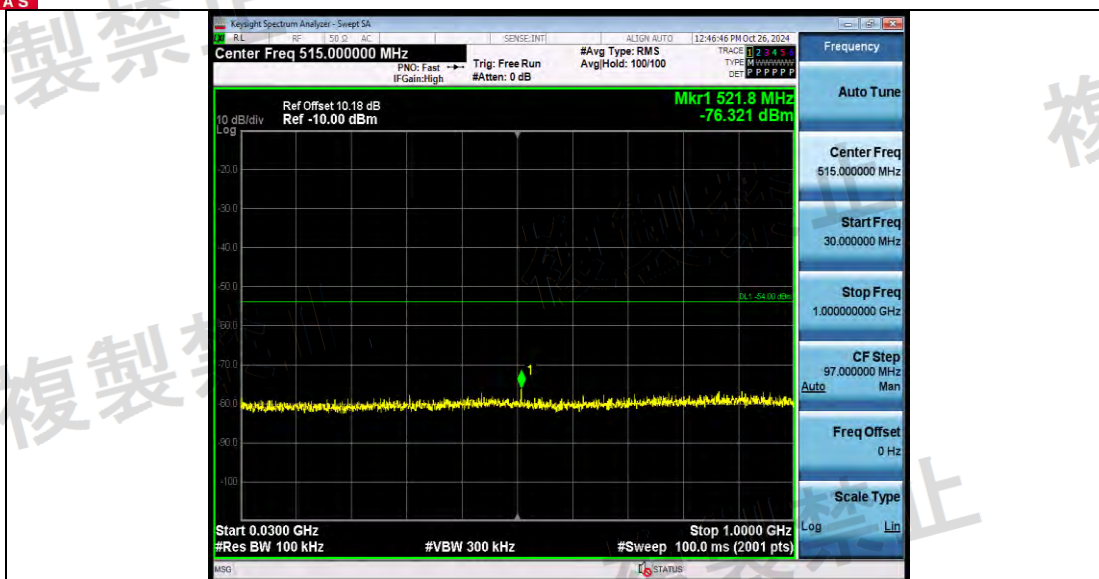
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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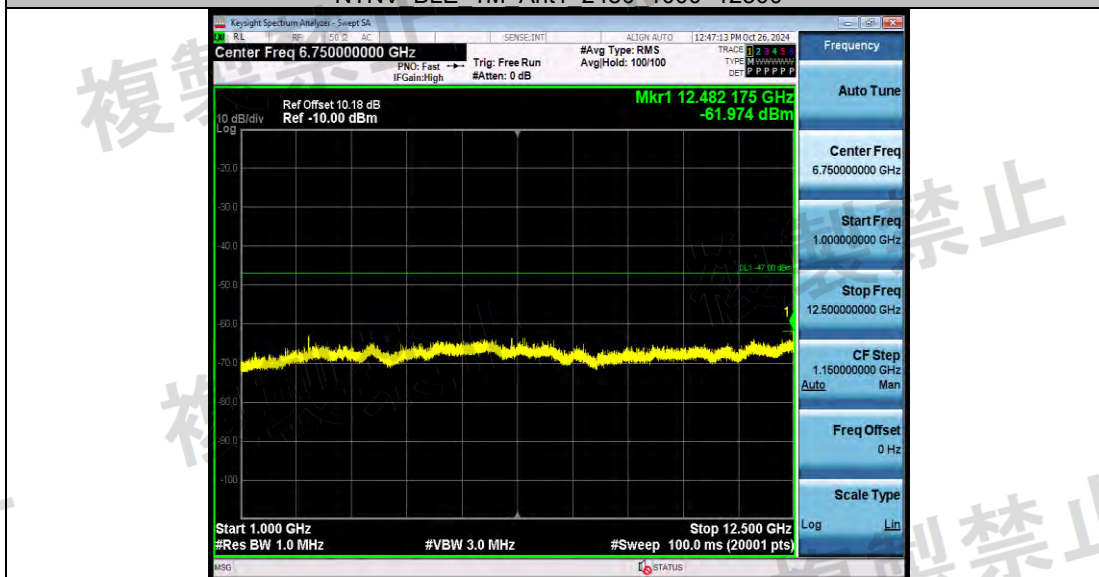


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Test Report No.: PSU-NQN2412110314RJ01



NTNV BLE 1M Ant1 2480 1000~12500



NTNV BLE 2M Ant1 2404 30~1000

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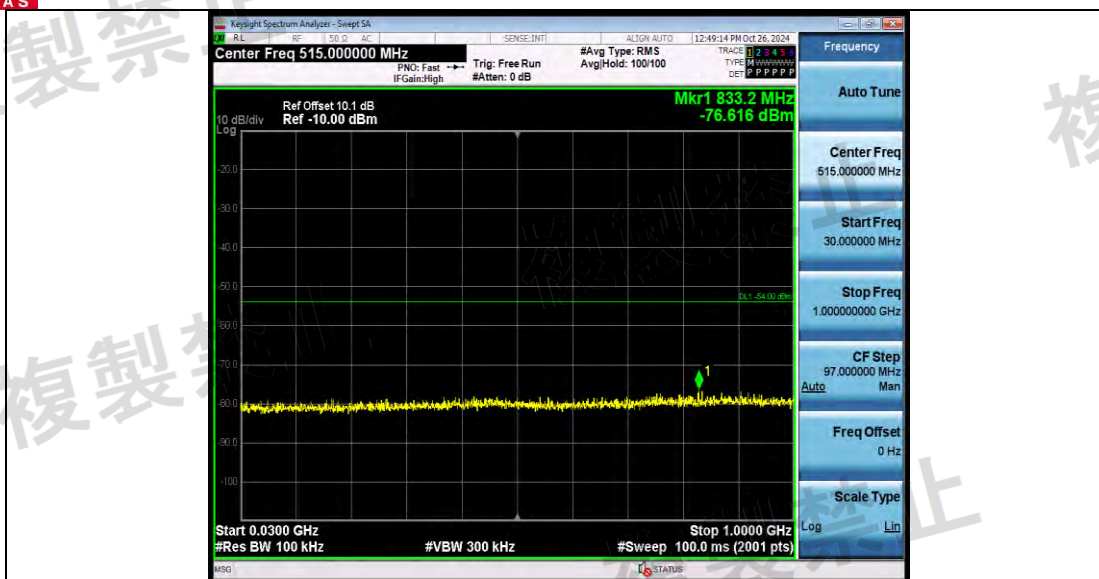
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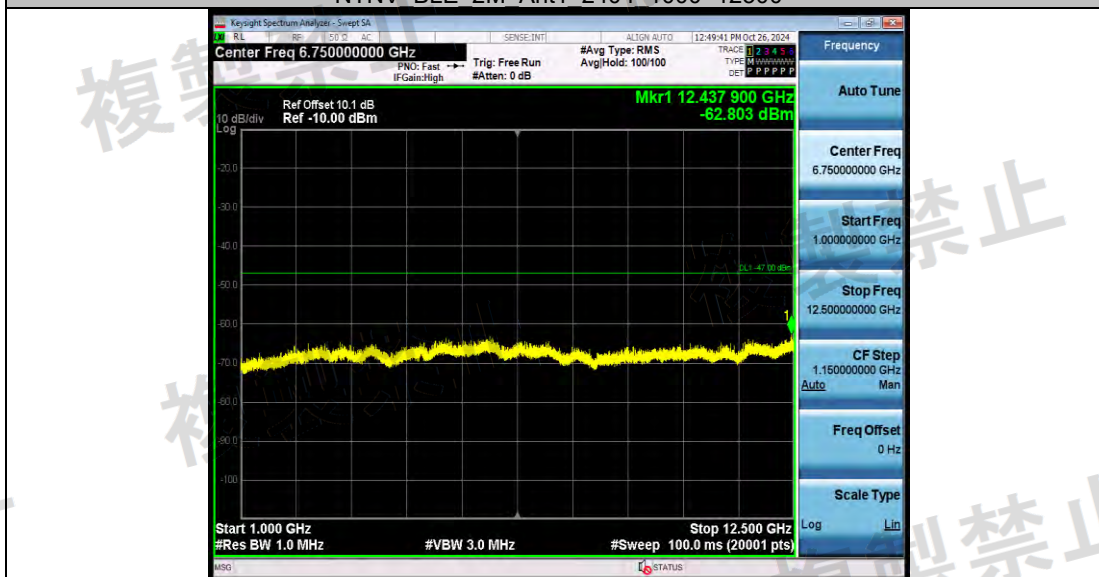


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VERITAS

Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2404_1000~12500



NTNV_BLE_2M_Ant1_2440_30~1000

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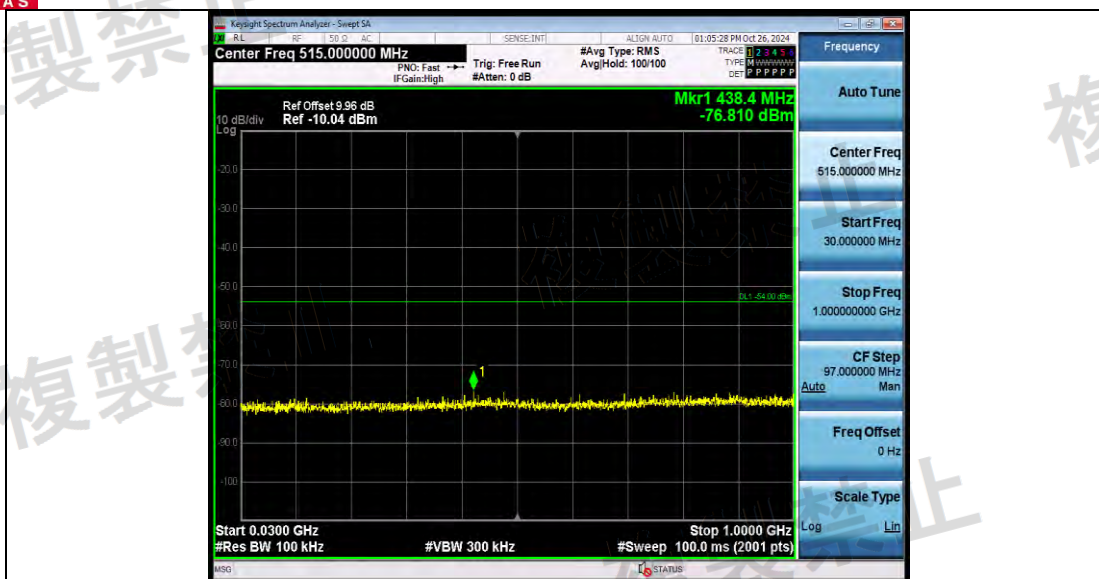
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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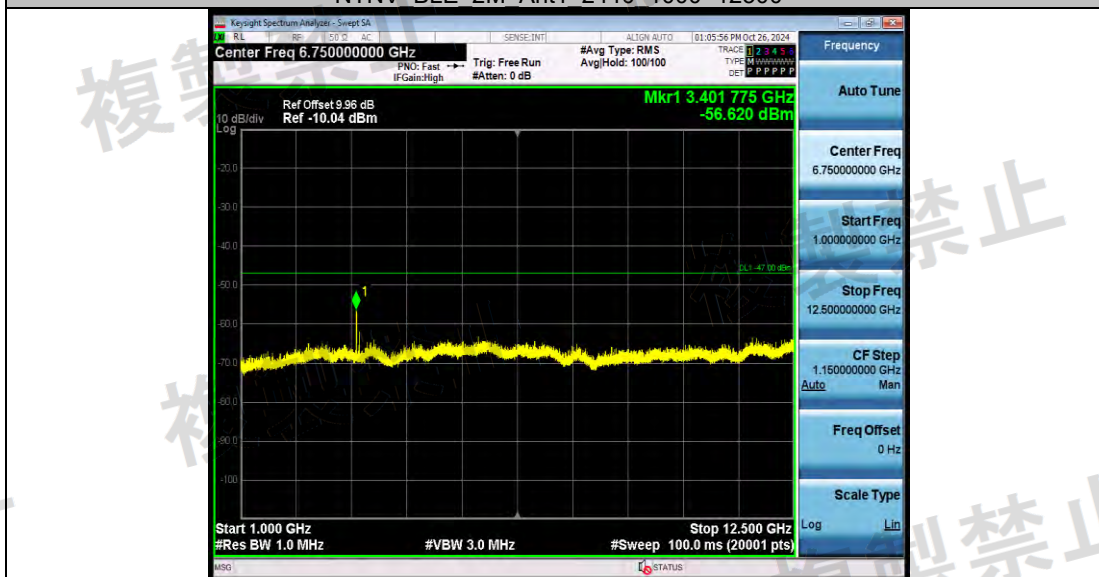


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VERITAS

Test Report No.: PSU-NQN2412110314RJ01



NTNV_BLE_2M_Ant1_2440_1000~12500



NTNV_BLE_2M_Ant1_2478_30~1000

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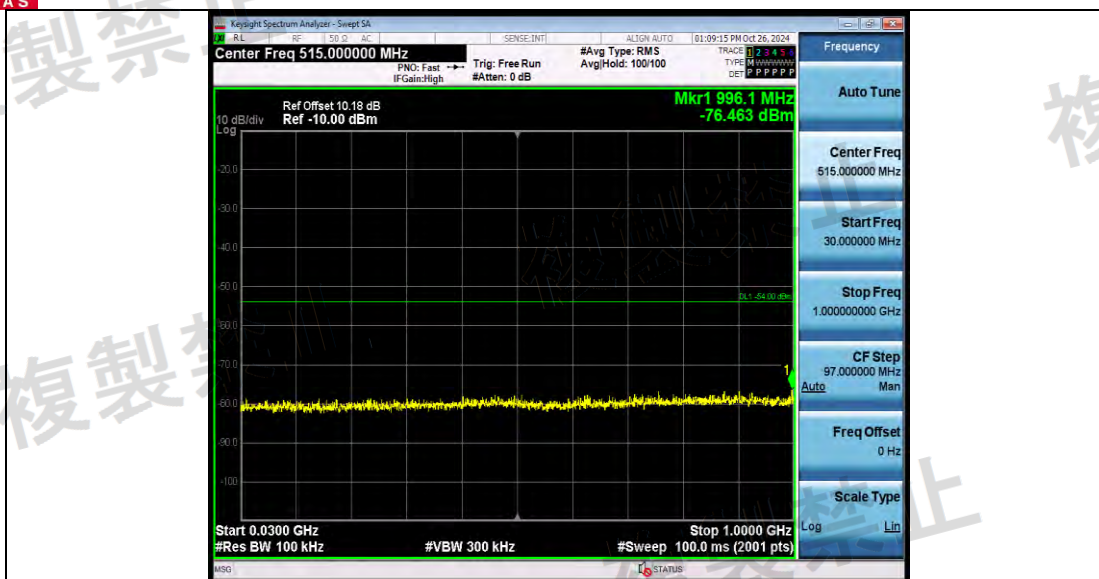
Room B37, Warehouse A5, No.3 Chiwan 4th Road,
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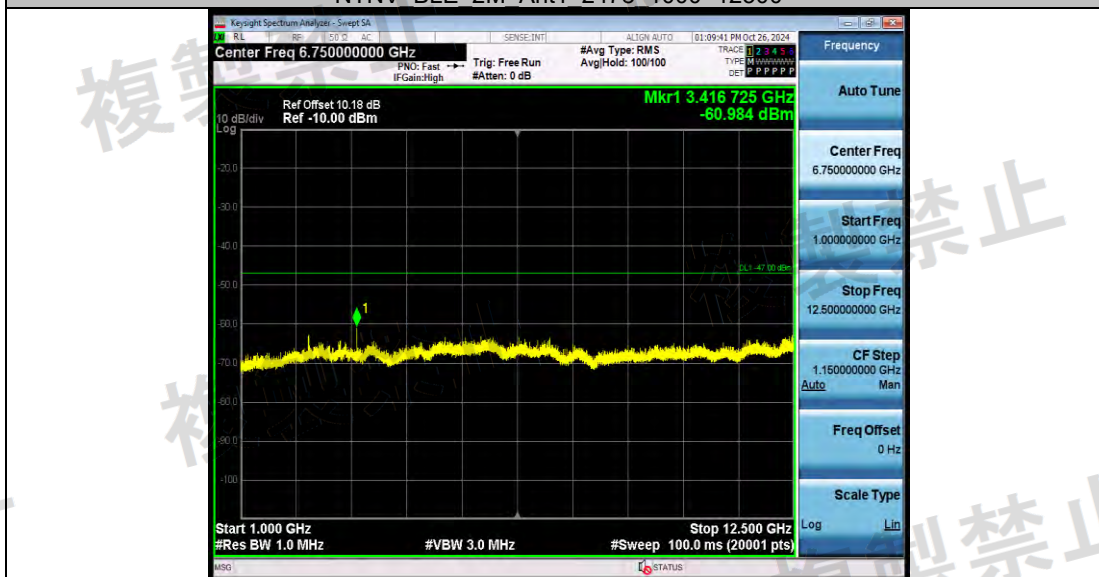


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VERITAS

Test Report No.: PSU-NQN2412110314RJ01



NTNV BLE 2M Ant1 2478 1000~12500



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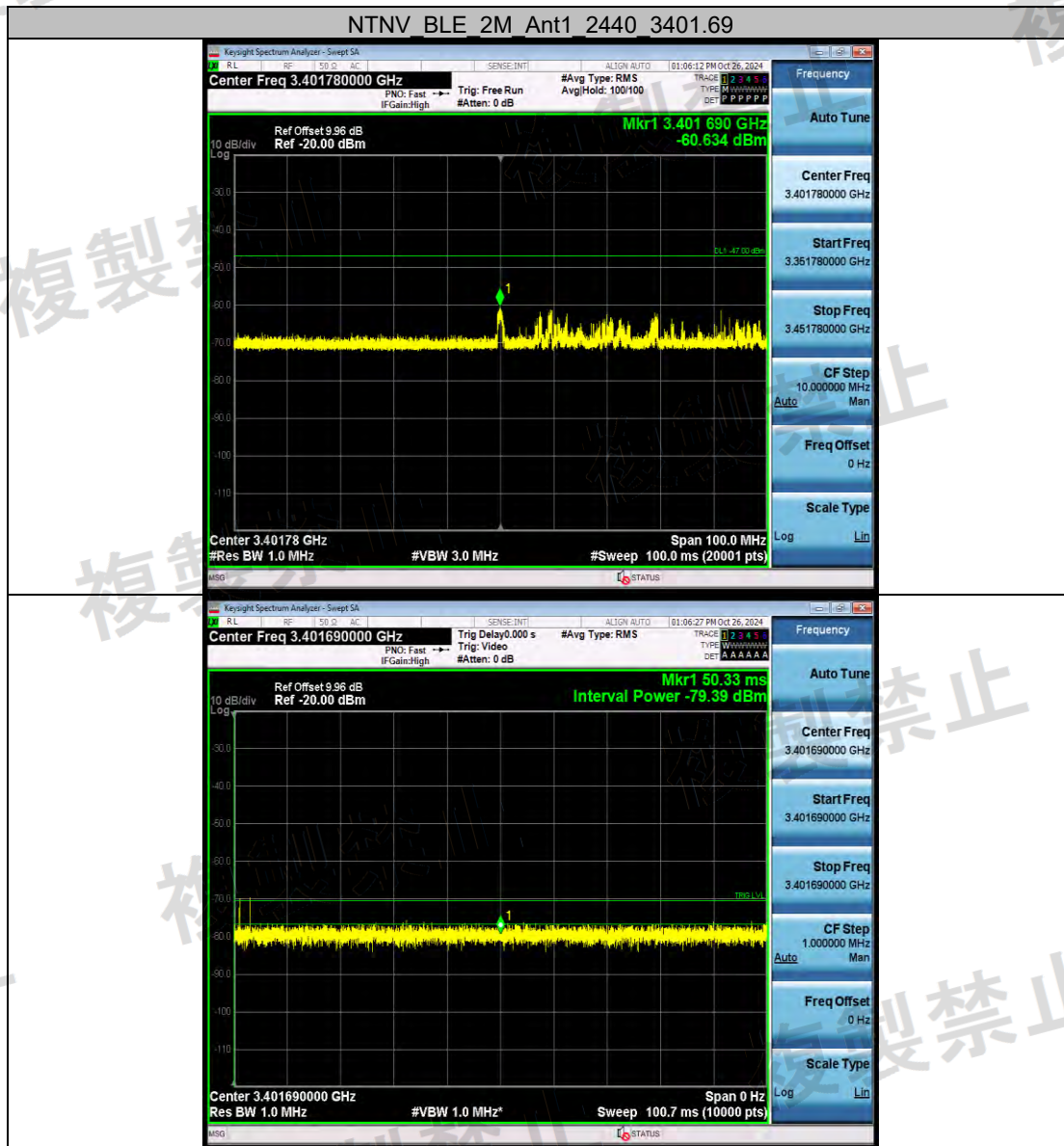
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Test Report No.: PSU-NQN2412110314RJ01

TEST GRAPHS_STEP2



--END--

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