

TEST REPORT

For

Wireless portable speaker with loop

Model Number: MJ-WS1

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Report No. : NCT24037474XE
Date of Test : Sept. 16, 2024-Oct. 24, 2024
Date of Report : Mar. 25, 2026

Shenzhen NCT Testing Technology Co.,Ltd.

Applicant:	RYOHIN KEIKAKU CO.,LTD		
Address:	Sumitomo Fudosan Iidabashi First Building, 2-5-1 Koraku, Bunkyo-ku, Tokyo, #112-0004		
Manufacturer:	RYOHIN KEIKAKU CO.,LTD		
Address:	Sumitomo Fudosan Iidabashi First Building, 2-5-1 Koraku, Bunkyo-ku, Tokyo, #112-0004		
E.U.T:	Wireless portable speaker with loop		
Model Number:	MJ-WS1		
Trade Name:	MUJI 無印良品	Serial No.:	-----
Date of Receipt:	Sept. 16, 2024	Date of Test:	Sept. 16, 2024-Oct. 24, 2024
Test Specification :	ARIB STD T-66 Ver.3.7(2014) Article2 Paragraph 1, item 19 MIC Notice No.88 Appendix No.43		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Mar. 25, 2026	
Tested by:	Reviewed by:	Approved by:	
			
Ken Wu / Engineer	Keven Wu / Supervisor	Henry Wang / Manager	
Other Aspects:			
None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen NCT Testing Technology Co., Ltd.			

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1. SUMMARY OF TEST RESULTS

1.1. TEST PROCEDURES ACCORDING TO THE TECHNICAL STANDARDS

article 49.20			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	
6	Occupied Bandwidth	PASS	
7	Spurious Emissions Intensity	PASS	
Transmitting equipment			
14	Antenna Power	PASS	
14.2	SAR	N/A	
Transmitting antenna			
20	Type, Configuration, etc., of Transmitting Antenna	PASS	
22	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS	
Receiving antenna			
24	Limitation of Collateral Emission of Receiver	PASS	
26	Refer to All Articles for Transmitting Antenna	PASS	
Operating frequency 2400~2483MHz			
49.20(1); a	RF Shielding Method	PASS	
49.20(1); a	Communication Method	PASS	
49.20(1); b	Spread-spectrum Method	PASS	
49.20(1); c	Antenna Power	PASS	
49.20(1); d	EIRP power	N/A	
4.7	Transmission Radiation Angle Width (3dB Bandwidth)	N/A	
49.20(1); e	Spread-Spectrum Bandwidth	Only Report	
49.20(1); f	Spreading Factor	Only Report	
49.20(1); g	Hopping Frequency Dwell Time (FH employed)	PASS	
	INTERFERENCE PREVENTION FUNCTION	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20

1. 2. TEST FACILITY

Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27
The certificate is valid until 2028.01.07
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)
The Certificate Registration Number is L8251

Designation Number: CN1347
Test Firm Registration Number: 894804
Accredited by A2LA, June 14, 2023
The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018
The Conformity Assessment Body Identifier is CN0150
Company Number: 30806

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.
Site Location : A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan
District, Shenzhen, People's Republic of China

1. 3. MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
RF frequency	$\pm 6 \times 10^{-7}$ MHz
Bandwidth	$\pm 1.5 \times 10^{-6}$
Total RF power, conducted	± 0.8 dB
Spurious emissions, conducted	± 0.8 dB
DC and low frequency voltages	$\pm 3\%$ V
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Wireless portable speaker with loop												
Model Name	MJ-WS1												
Series Model:	N/A												
Model Different.:	N/A												
Product Description	The EUT is a Wireless portable speaker with loop. <table border="1"> <tr> <td>Operation Frequency:</td><td>2402~2480MHz</td></tr> <tr> <td>Modulation Type:</td><td>FHSS</td></tr> <tr> <td>Bit Rate of Transmitter:</td><td>GFSK, $\pi/4$-DQPSK, 8DPSK</td></tr> <tr> <td>Number Of Channel:</td><td>79 CH</td></tr> <tr> <td>Antenna Type:</td><td>Chip Antenna</td></tr> <tr> <td>Antenna Gain(Peak):</td><td>1.81 dBi</td></tr> </table> Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	Operation Frequency:	2402~2480MHz	Modulation Type:	FHSS	Bit Rate of Transmitter:	GFSK, $\pi/4$ -DQPSK, 8DPSK	Number Of Channel:	79 CH	Antenna Type:	Chip Antenna	Antenna Gain(Peak):	1.81 dBi
Operation Frequency:	2402~2480MHz												
Modulation Type:	FHSS												
Bit Rate of Transmitter:	GFSK, $\pi/4$ -DQPSK, 8DPSK												
Number Of Channel:	79 CH												
Antenna Type:	Chip Antenna												
Antenna Gain(Peak):	1.81 dBi												
Channel List	Please refer to the Note 2.												
Power Source	DC 3.6V by battery(2500mAh) ; Charging input: DC 5V												
Hardware Version	N/A												
Software Version	N/A												

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Operation Frequency each of channel							
Chann el	Frequency	Chann el	Frequency	Chan nel	Frequency	Chan nel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz

17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

3. Table for Filed Antenna

ANT	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	N/A	Chip Antenna	1.81	N/A

2.2. DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. Then recorded the worst mode (GFSK) in the report.

Pretest Mode	Description
Mode 1	GFSK (CH01 CH40 CH79)
Mode 2	$\pi/4$ -DQPSK (CH01 CH40 CH79)
Mode 3	8DPSK (CH01 CH40 CH79)
Mode 4	RX

For Radiated Emission	
Final Test Mode	Description
Mode 1	GFSK(CH01 CH40 CH79)
Mode 2	$\pi/4$ -DQPSK (CH01 CH40 CH79)
Mode 3	8DPSK (CH01 CH40 CH79)
Mode 4	RX

2.3. TEST CONDITIONS

The BT module was tested while in a continuous transmitter/receiver mode. The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Voltage Fluctuation Test		Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Test Voltage		3.6V	3.96V	3.24V
Module Voltage		DC 3.30V	DC 3.30V	DC 3.30V
Voltage error(%)	Result	Ref.level	0	0

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

2. 4. TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	FCC_assist_1.0.2.2		
Frequency	2402MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF

2. 5. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode :



2. 6. DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Serial	Equipment	Brand	Model/Type No.	Series No.	Note
1	Adapter	/	X2903	/	Auxiliary

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.7. EQUIPMENTS LIST FOR ALL TEST ITEMS**Test Equipment**

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date	Cal. Method
MXG Signal Analyzer	N9020A	MY5051020 2	Agilent	2024/6/17	2025/6/16	c)
MXG Vector Signal Generator	N5182A	MY5014002 0	Agilent	2024/6/17	2025/6/16	c)
MXG Analog Signal Generator	N5181A	MY4742091 9	Agilent	2024/6/17	2025/6/16	c)
Power Sensor	TR1029-2	512364	Techoy	2024/6/17	2025/6/16	c)
RF Swith	TR1029-1	512364	Techoy	2024/6/17	2025/6/16	c)

Note: these equipments are Calibration by CEPREI Calibration and Testing Center.

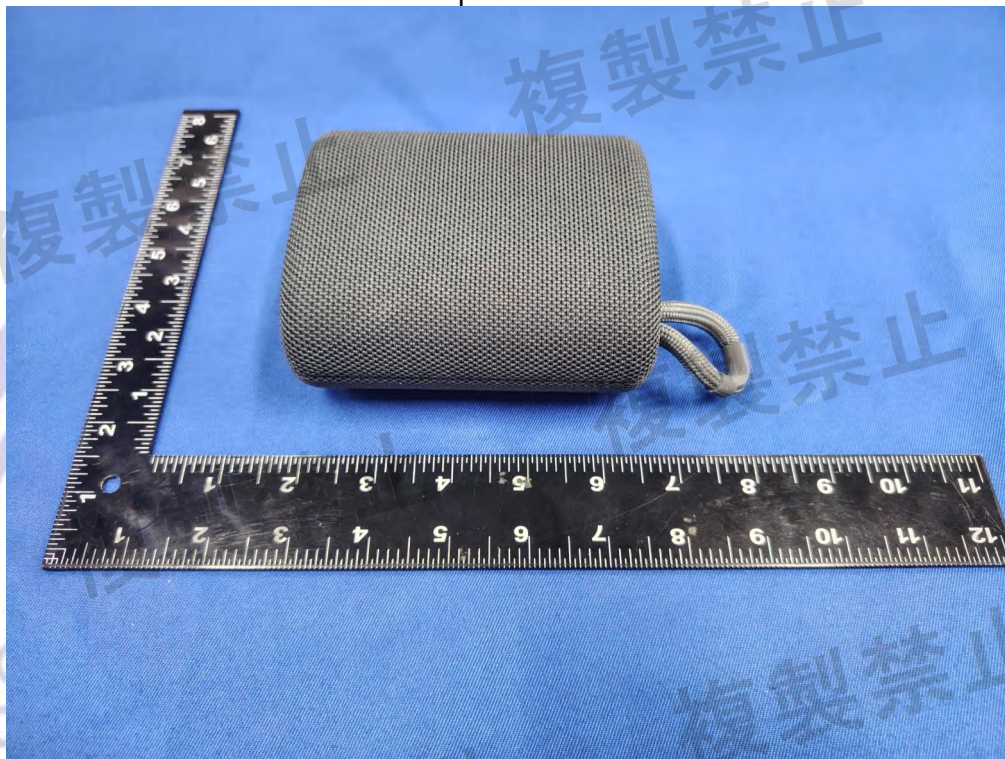
Note: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- b): Calibration 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).
- d): Calibration conducted by using other equipment that listed above from a) to c).

3. RF SHIELDING METHOD

We apply the product for Japan RF certification. The RF chip is soldered on the PCB, making it very difficult for anyone to remove it. Number of RF chip pins: 24, spacing distance: 1.2mm (please see picture 2).

picture 1



picture 2



4. TEST RESULT FOR BLUETOOTH

4.1. FREQUENCY ERROR

4.2. LIMIT

Item	Limits
Frequency Error	$\pm 50\text{ppm}$

4.3. MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

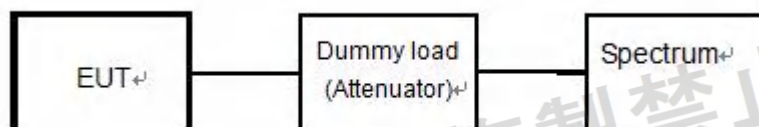
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz/30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4. TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

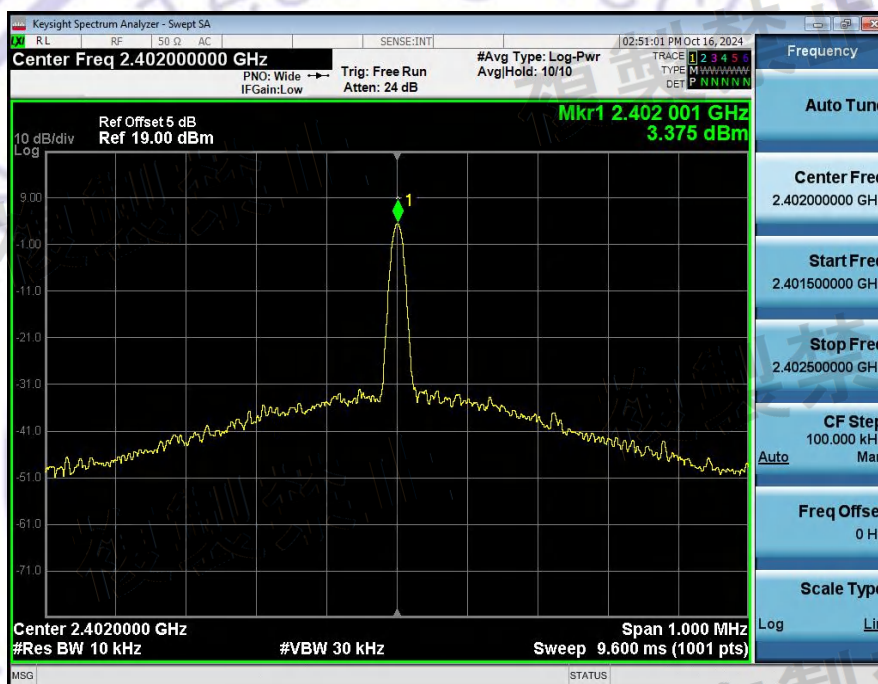
4.5. TEST SETUP LAYOUT



4.6. TEST RESULT

Frequency (MHz)	Reading	Tolerance	Limit	Result
	MHz	ppm	ppm	
2402	2402.001	0.416	±50	Pass
2441	2440.997	-1.229	±50	
2480	2479.993	-2.823	±50	

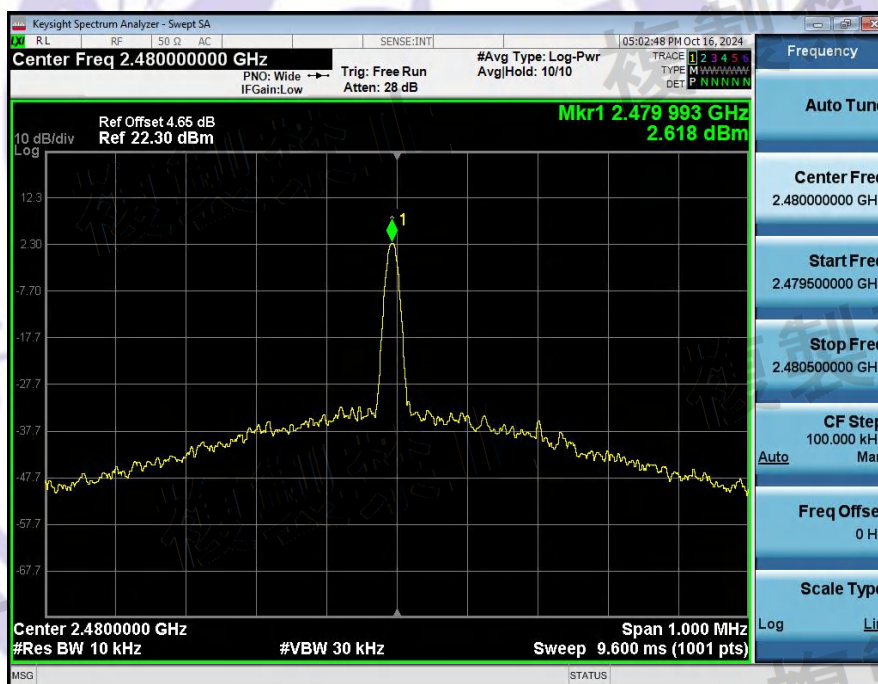
2402MHz



2441MHz



2480MHz



5. ANTENNA POWER

5.1. LIMIT

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2402 - 2480 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	+20%(Base on manufacturer declare antenna power density)

5.2. TEST PROCEDURES

1. The EUT was directly connected to the power meter.
2. The EUT was set to frequency hopping mode.

5.3. TEST SETUP LAYOUT



5.4. TEST DEVIATION

There is no deviation with the original standard.

5.5. TEST RESULT

Wireless portable speaker with loop										
	Mode	Power	Power	Spread Bandwidth	Power	Limit	Rated power	Tolerance	Limit	Result
		(dBm)	(mW)	(MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)			
GFSK	Hopping	-1.6270	0.688	71.28	0.0096	3	0.0200	-52.00	+20%	Pass
$\pi/4$ -DQPSK	Hopping	-0.2540	0.943	71.33	0.0132	3	0.0200	-33.89	+20%	Pass
8DPSK	Hopping	0.3350	1.080	71.34	0.0151	3	0.0200	-24.29	+20%	Pass

6. OCCUPIED BANDWITH (99%&90%)

6.1. LIMIT

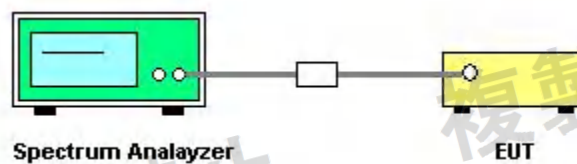
Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DS $\leq$ 26MHz;Others $\leq$ 26MHz

6.2. MEASURING INSTRUMENTS AND SETTING

6.3. TEST PROCEDURES

- Setting of SA is following as: RB: 1M / VB:3M / SPAN: 83.5MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
Remark: ATT and Ref will be adjusted based on the product testing situation, with the test spectrum as the standard
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth

6.4. TEST SETUP LAYOUT



6.5. TEST DEVIATION

There is no deviation with the original standard.

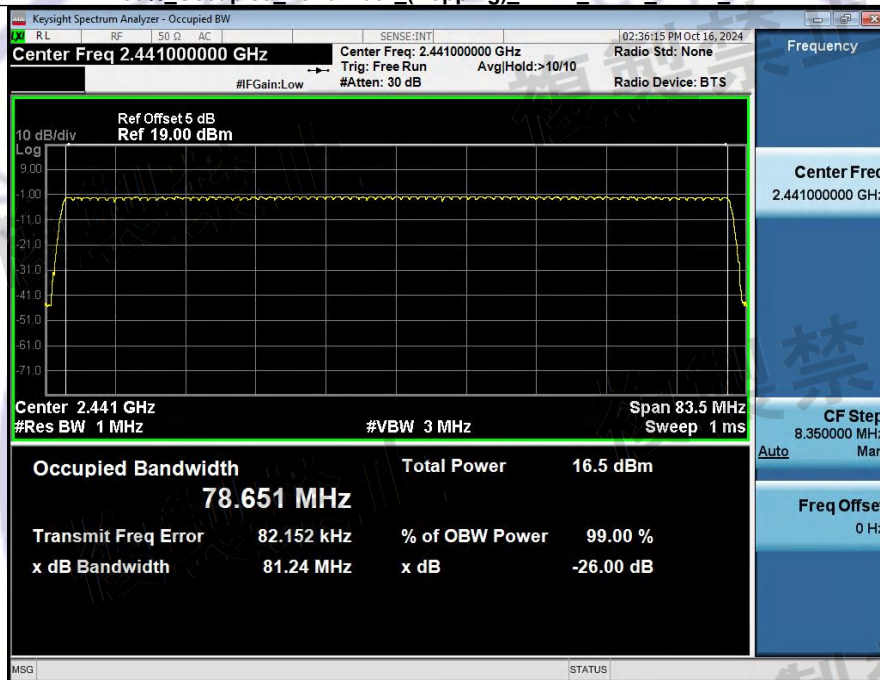
6.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

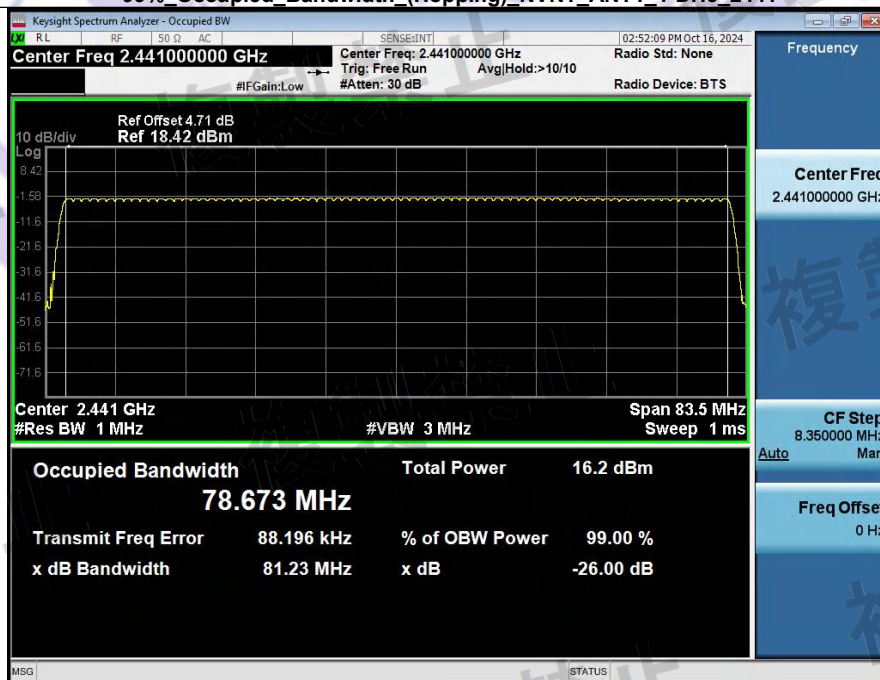
6.7. TEST RESULT

Modulation	mode	99% Occupied Bandwidth(MHz)	Limit(MHz)	Result
GFSK(DH1)	Hopping	78.65	83.50	Pass
GFSK(DH3)	Hopping	78.67	83.50	Pass
GFSK(DH5)	Hopping	78.68	83.50	Pass
$\pi/4$ -DQPSK(2DH1)	Hopping	78.74	83.50	Pass
$\pi/4$ -DQPSK(2DH3)	Hopping	78.77	83.50	Pass
$\pi/4$ -DQPSK(2DH5)	Hopping	78.74	83.50	Pass
8DPSK(3DH1)	Hopping	78.71	83.50	Pass
8DPSK(3DH3)	Hopping	78.78	83.50	Pass
8DPSK(3DH5)	Hopping	78.74	83.50	Pass

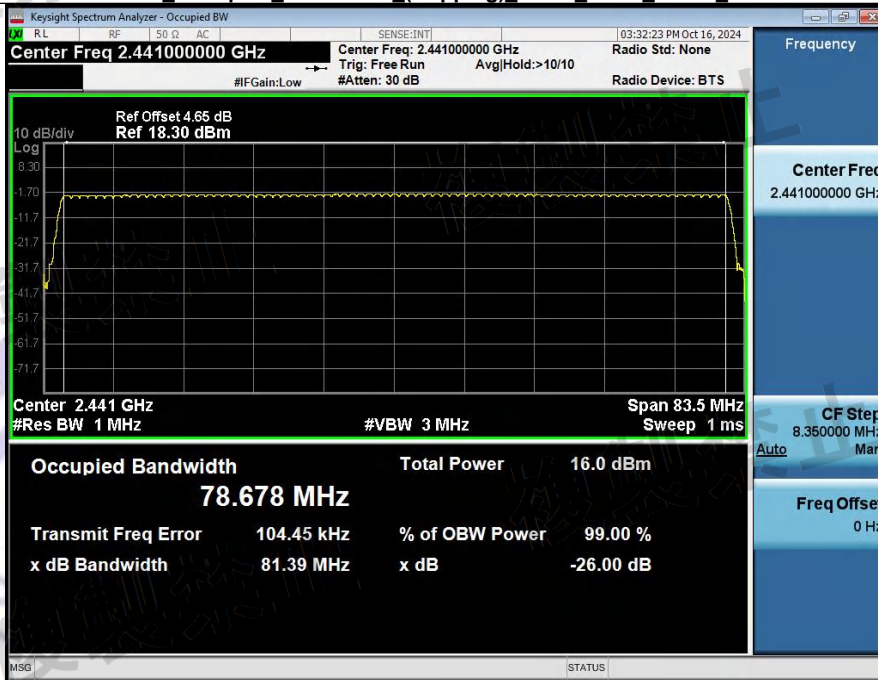
99% Occupied Bandwidth (Hopping) NVNT_ANT1_1-DH1 2441



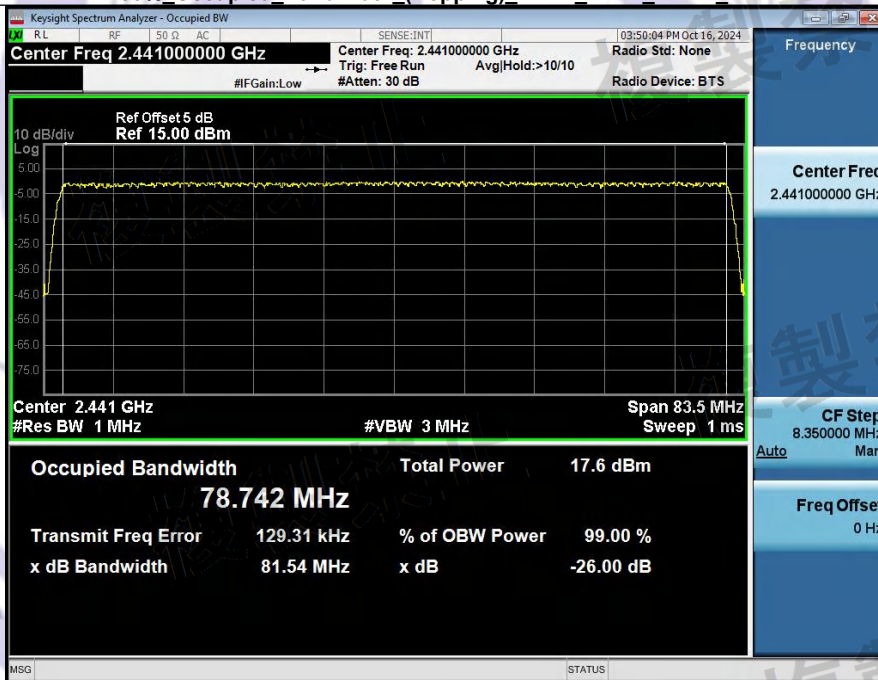
99% Occupied Bandwidth (Hopping) NVNT_ANT1_1-DH3 2441



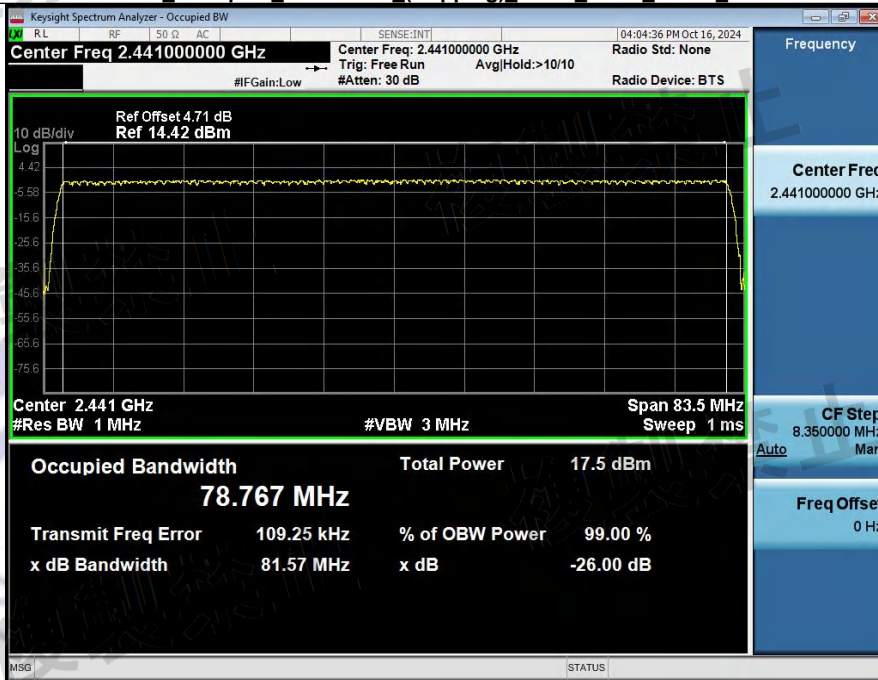
99%_Occupied Bandwidth (Hopping)_NVNT_ANT1_1-DH5_2441



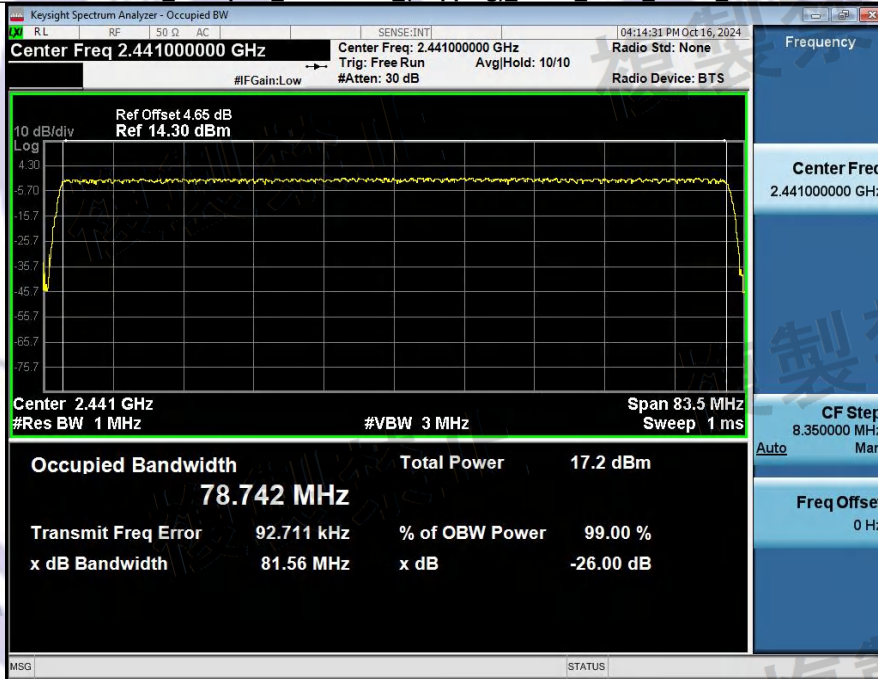
99%_Occupied Bandwidth (Hopping)_NVNT_ANT1_2-DH1_2441



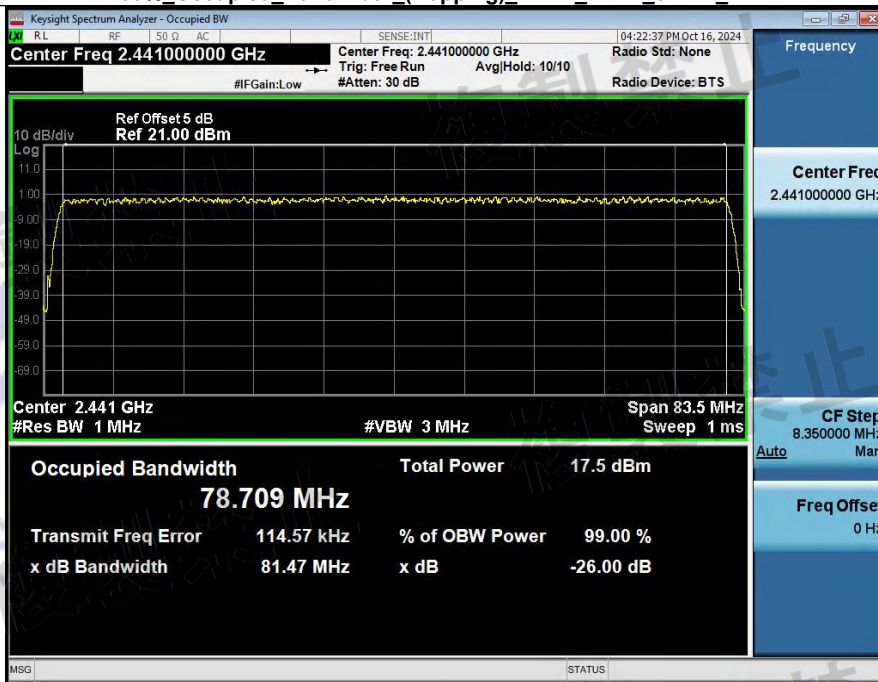
99%_Occupied Bandwidth (Hopping)_NVNT_ANT1_2-DH3_2441



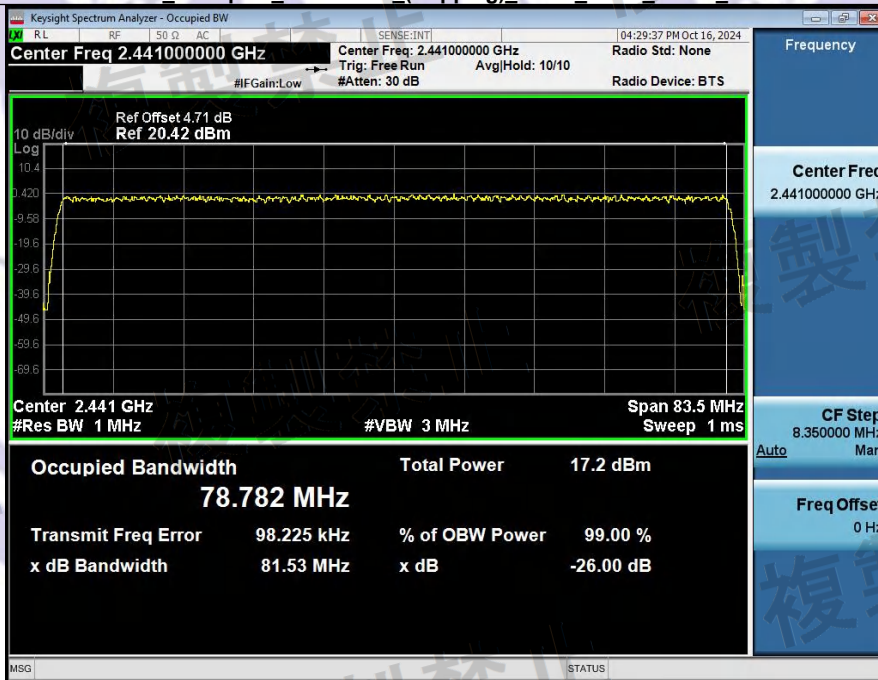
99%_Occupied Bandwidth (Hopping)_NVNT_ANT1_2-DH5_2441

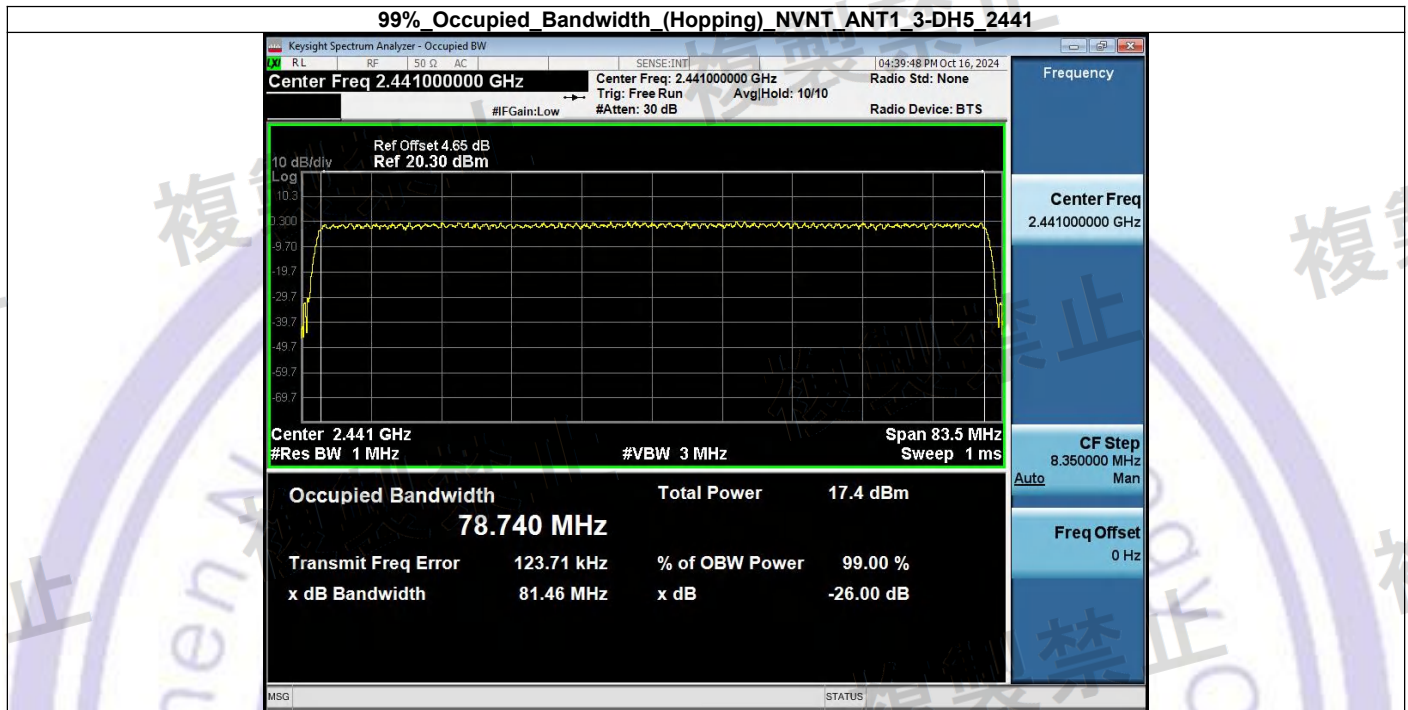


99% Occupied Bandwidth (Hopping) NVNT_ANT1_3-DH1_2441

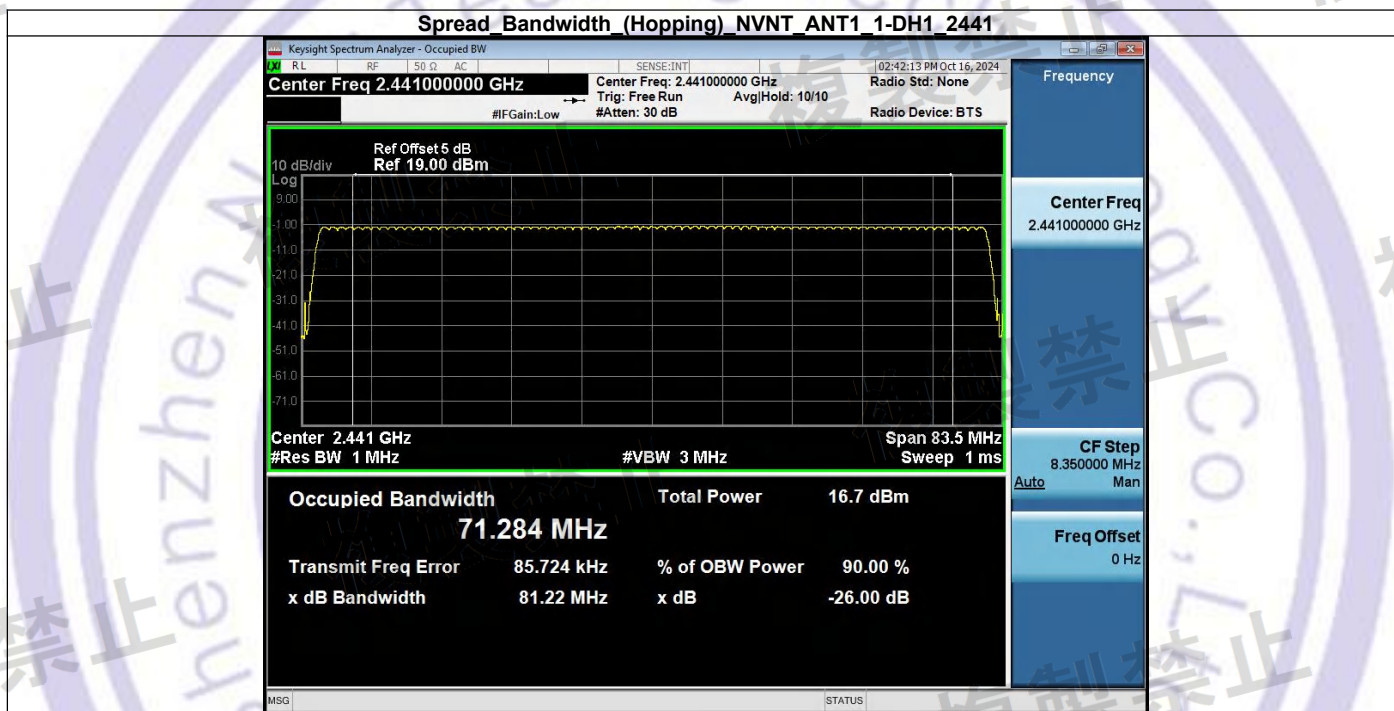


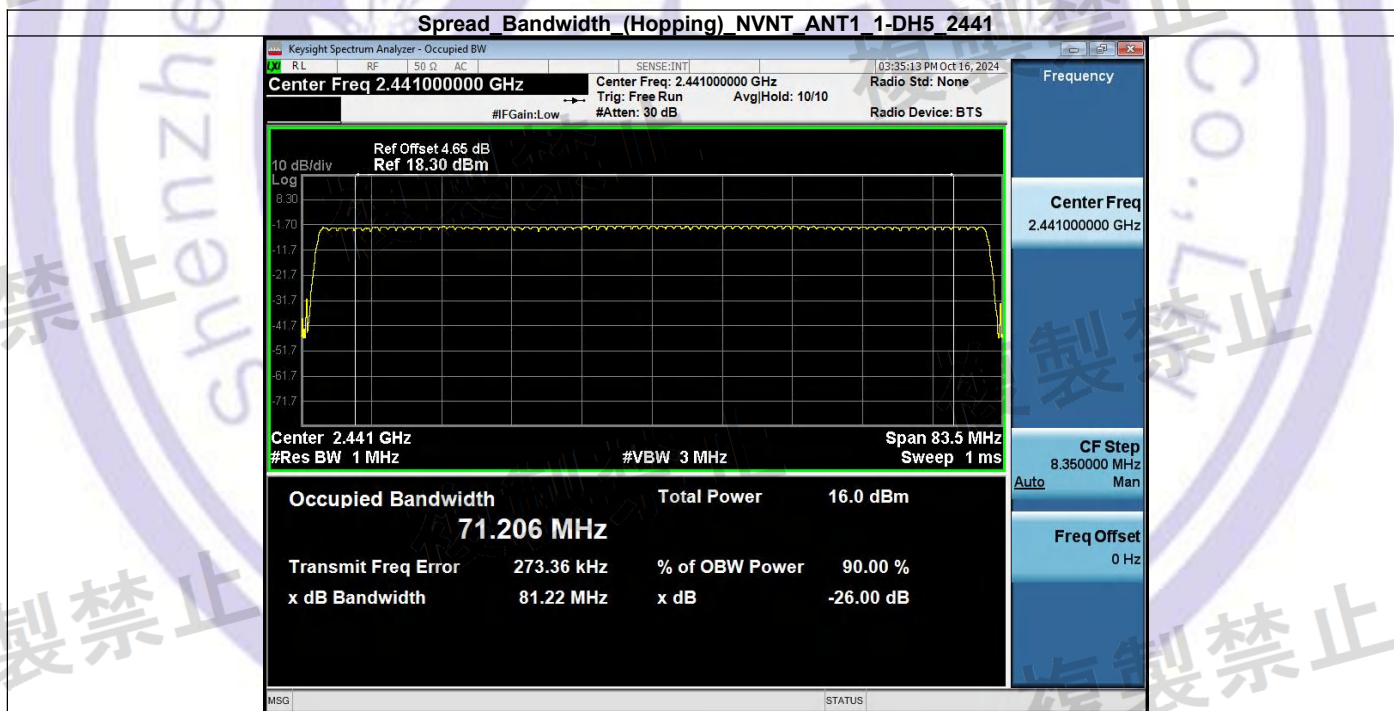
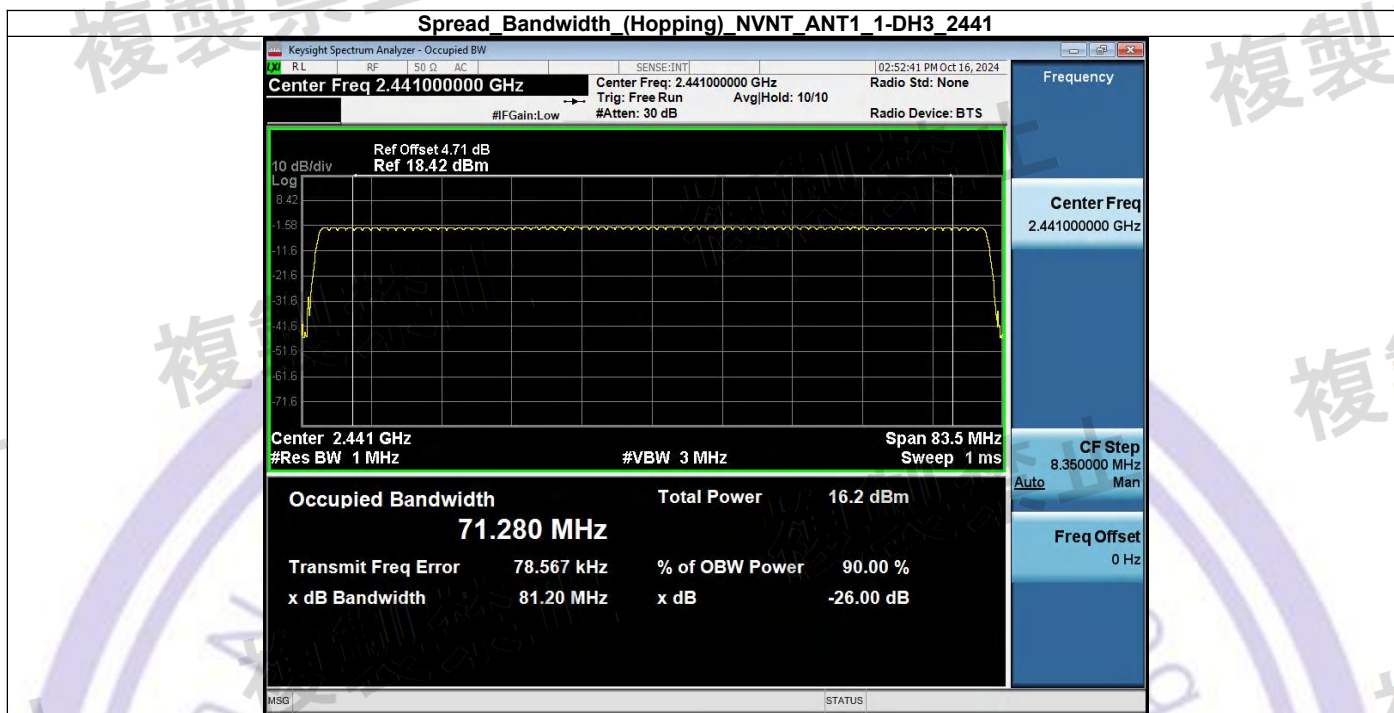
99% Occupied Bandwidth (Hopping) NVNT_ANT1_3-DH3_2441



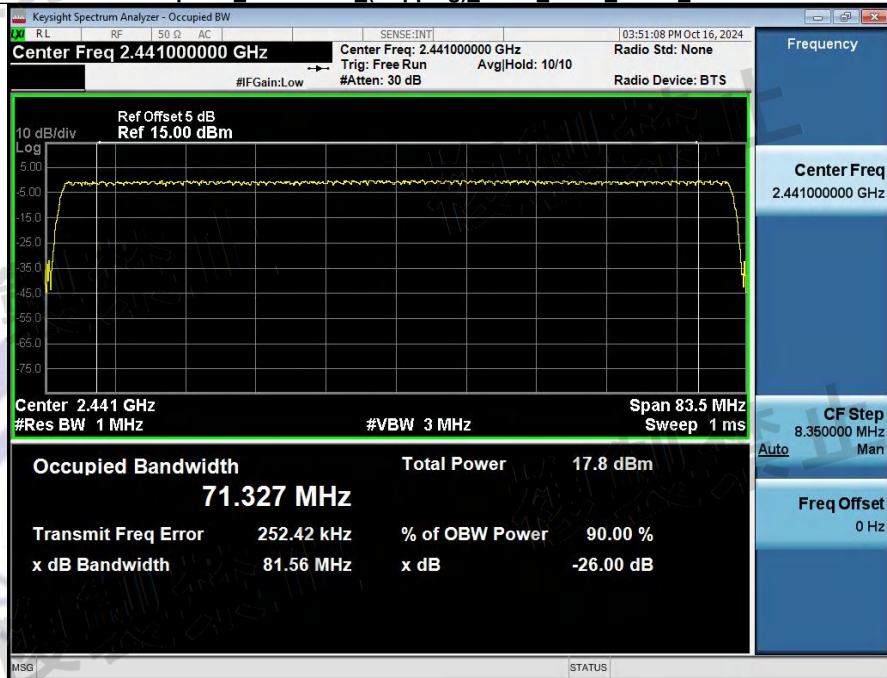


Modulation	mode	Spread Bandwidth(MHz)	Rate(Mbps)	Spread Factor
GFSK(DH1)	Hopping	71.28	1	71.28
GFSK(DH3)	Hopping	71.28	1	71.28
GFSK(DH5)	Hopping	71.21	1	71.21
$\pi/4$ -DQPSK(2DH1)	Hopping	71.33	1	71.33
$\pi/4$ -DQPSK(2DH3)	Hopping	71.38	1	71.38
$\pi/4$ -DQPSK(2DH5)	Hopping	71.39	1	71.39
8DPSK(3DH1)	Hopping	71.34	1	71.34
8DPSK(3DH3)	Hopping	71.20	1	71.20
8DPSK(3DH5)	Hopping	71.36	1	71.36

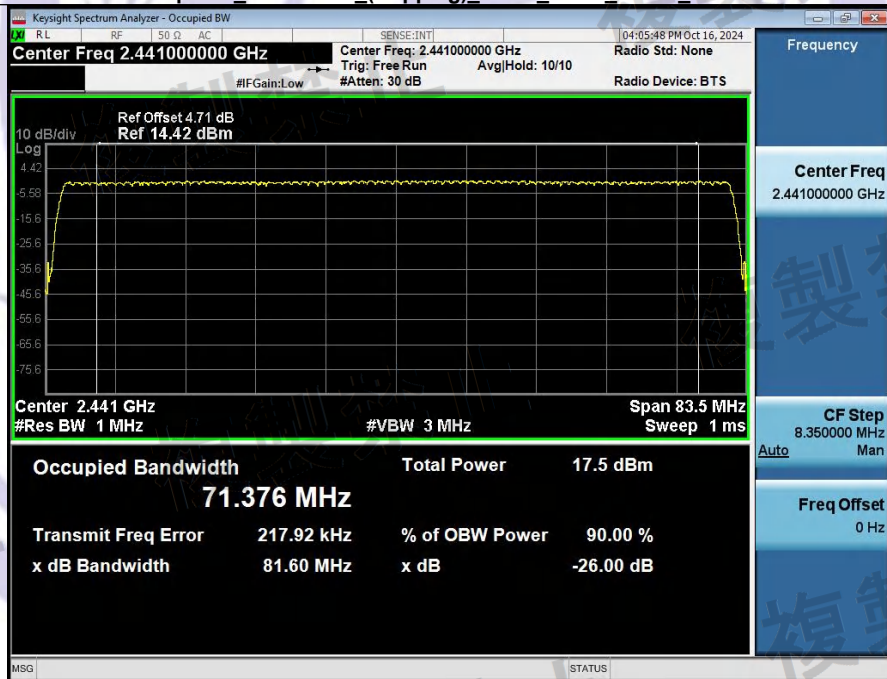


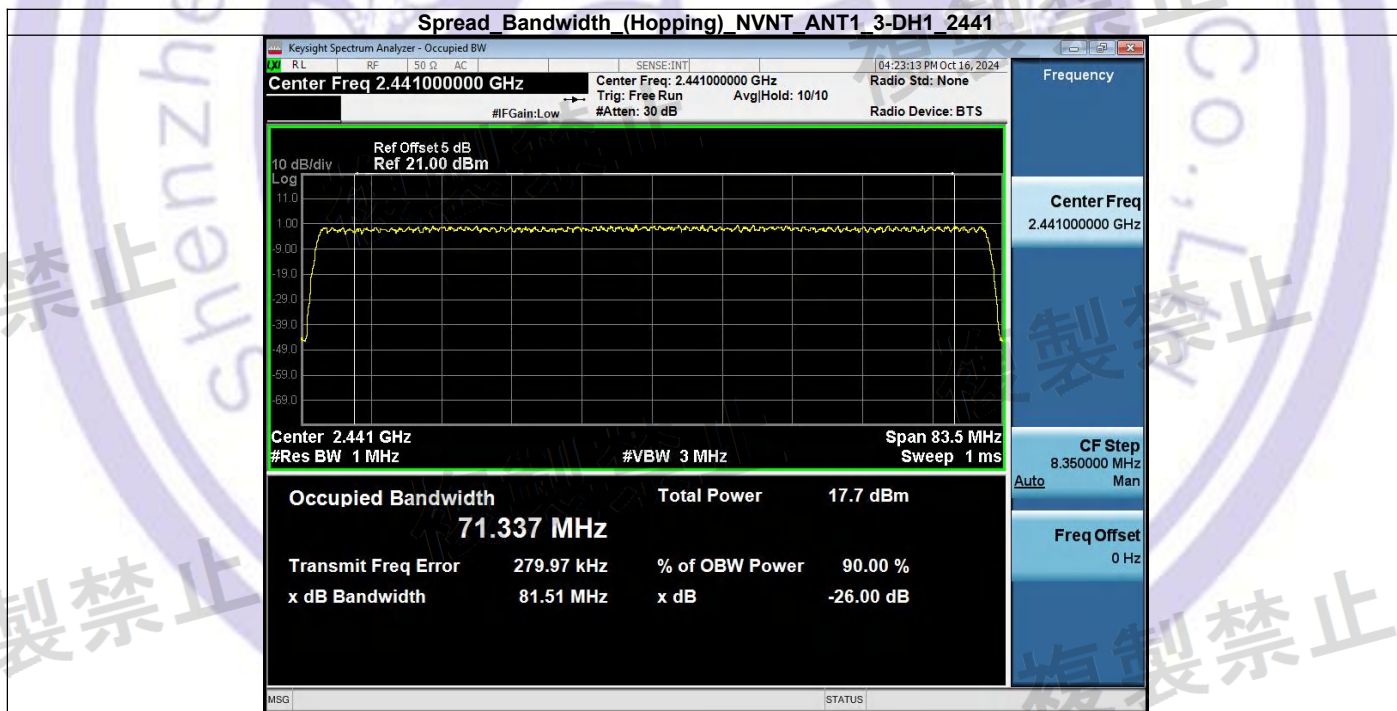
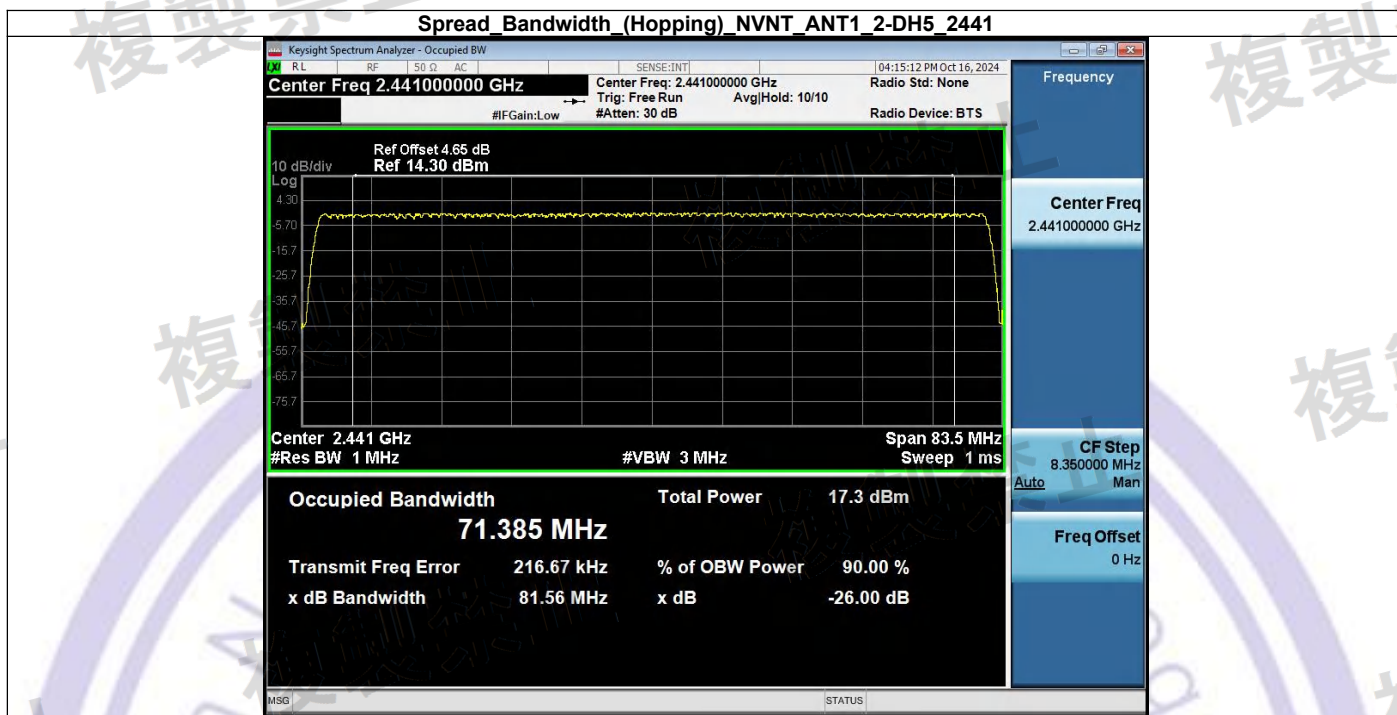


Spread Bandwidth (Hopping) NVNT_ANT1_2-DH1_2441

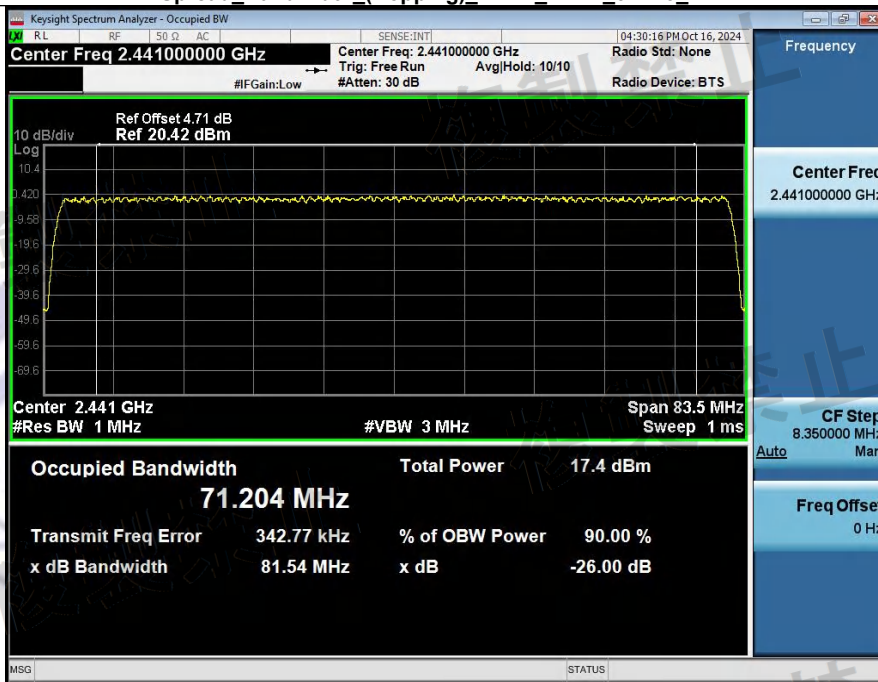


Spread Bandwidth (Hopping) NVNT_ANT1_2-DH3_2441

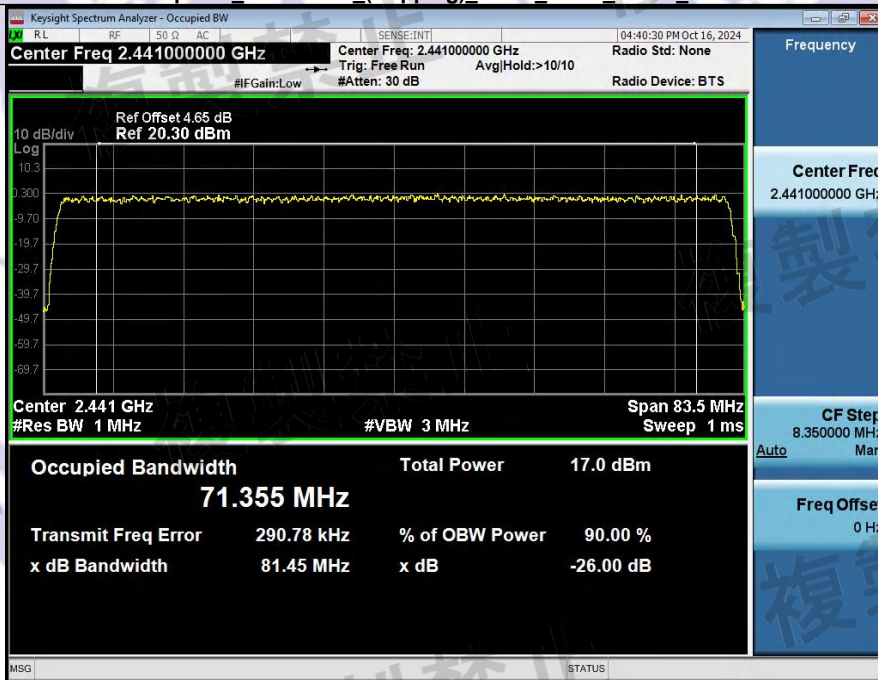




Spread Bandwidth (Hopping)_NVNT_ANT1_3-DH3_2441



Spread Bandwidth (Hopping)_NVNT_ANT1_3-DH5_2441



7. UNWANTED EMISSION INTENSITY MEASUREMENT

7.1. LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm/MHz})$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm/MHz})$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}(-16\text{dBm/MHz})$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}(-16\text{dBm/MHz})$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm/MHz})$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

7.2. MEASURING INSTRUMENTS AND SETTING

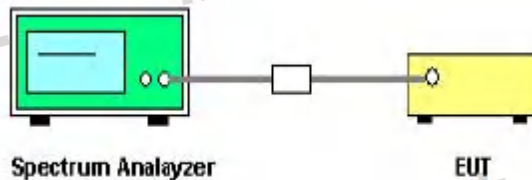
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Below 1G	Above 1G
	Setting	Setting
Attenuation	Auto	Auto
RB / VB	1MHz	1MHz
Detector	Peak	Peak
Trace	Max Hold	Max Hold
Sweep Time	Auto	Auto

7.3. TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

7.4. TEST SETUP LAYOUT



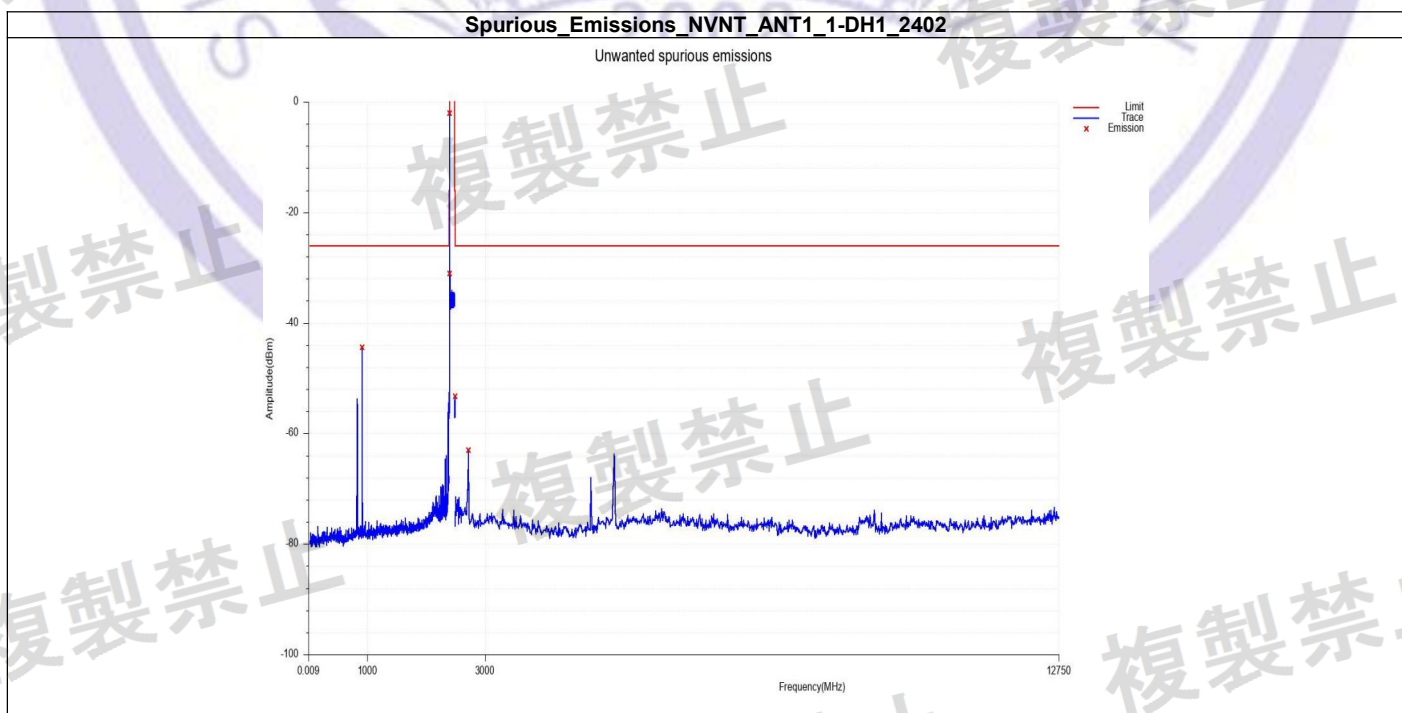
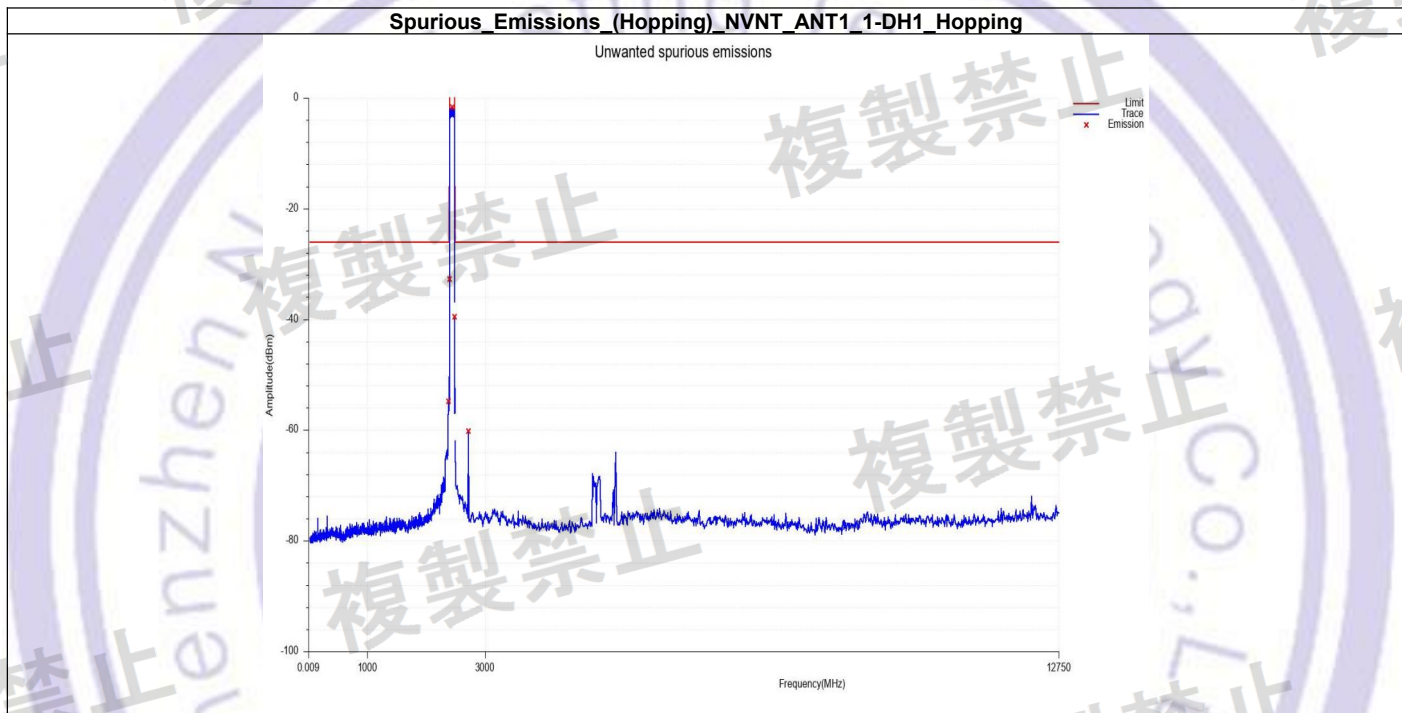
7.5. TEST DEVIATION

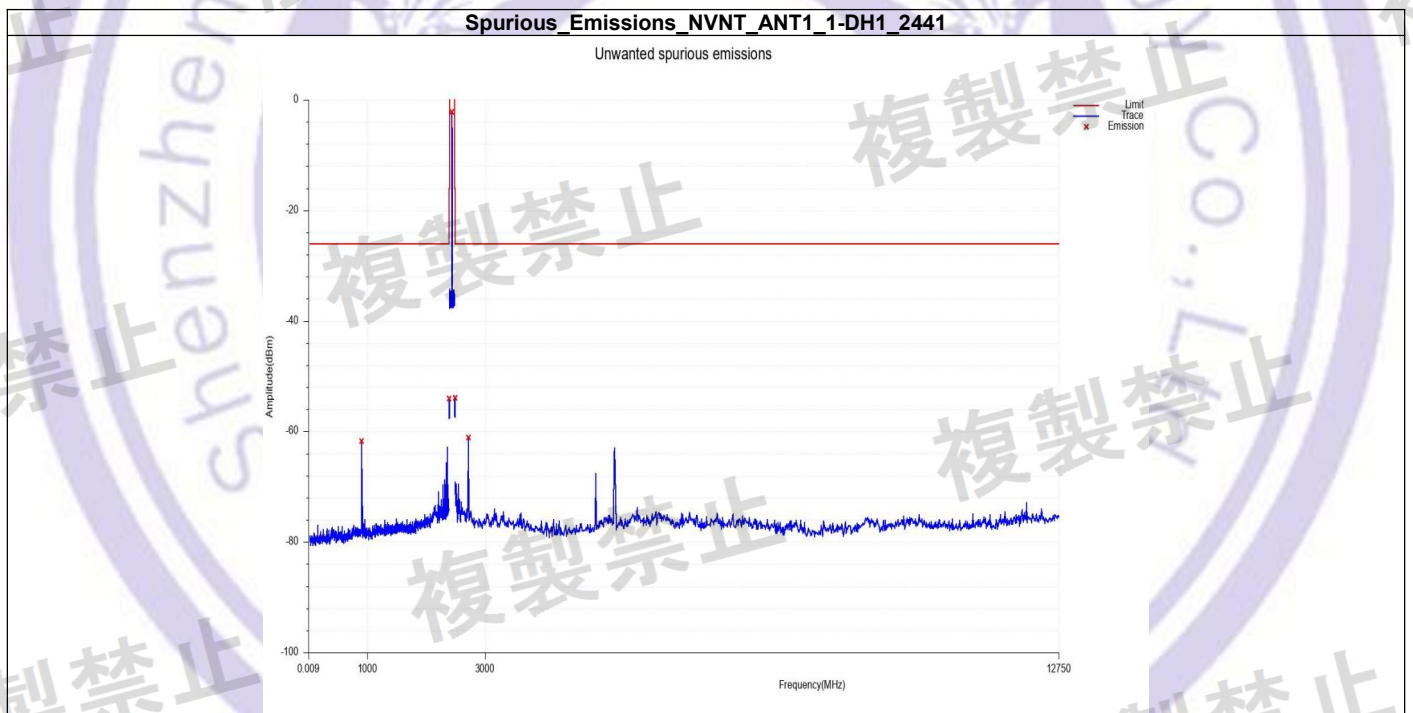
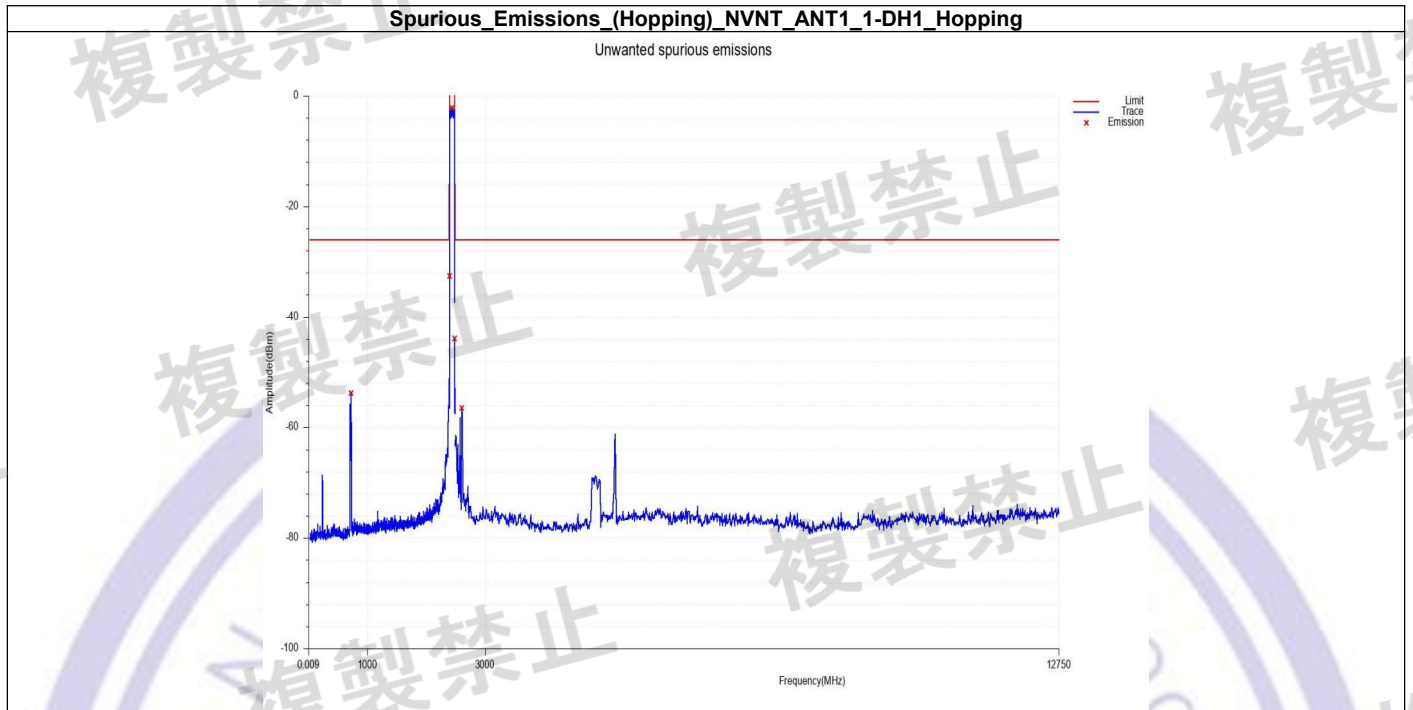
There is no deviation with the original standard.

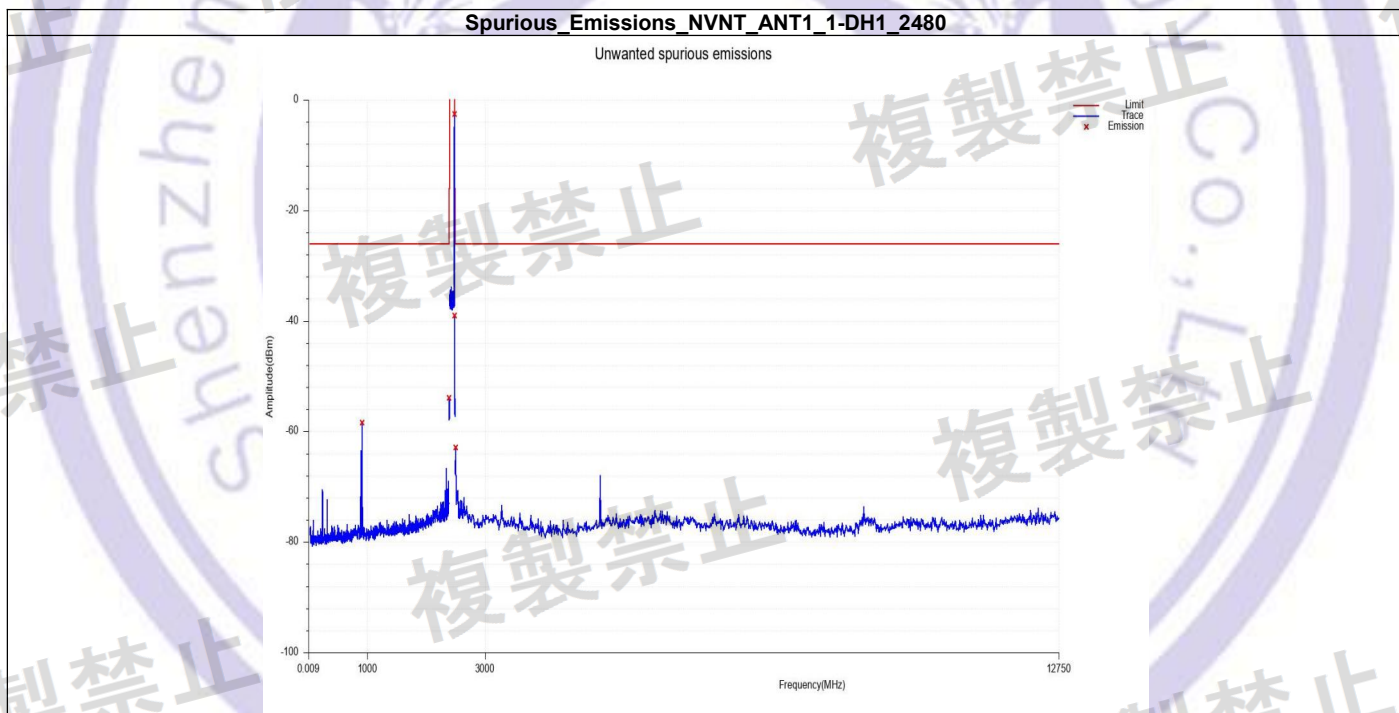
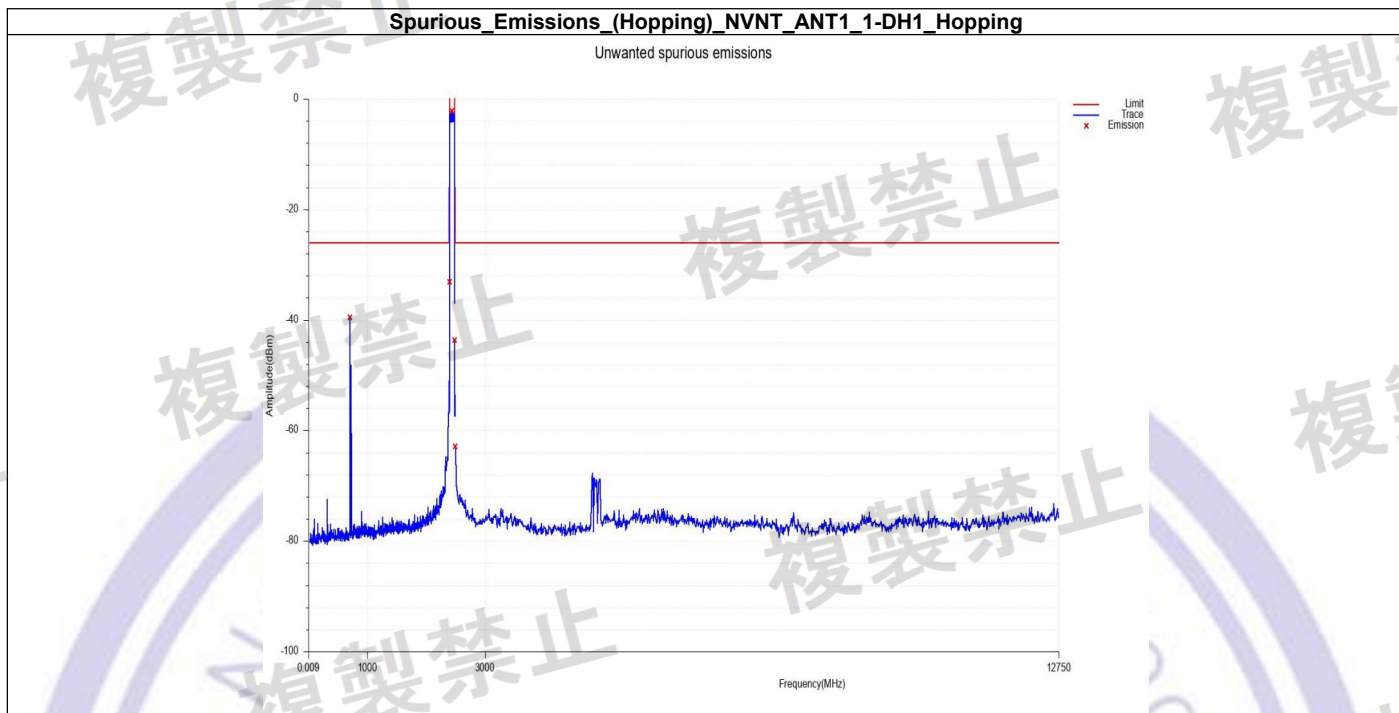
7.6. TEST RESULT

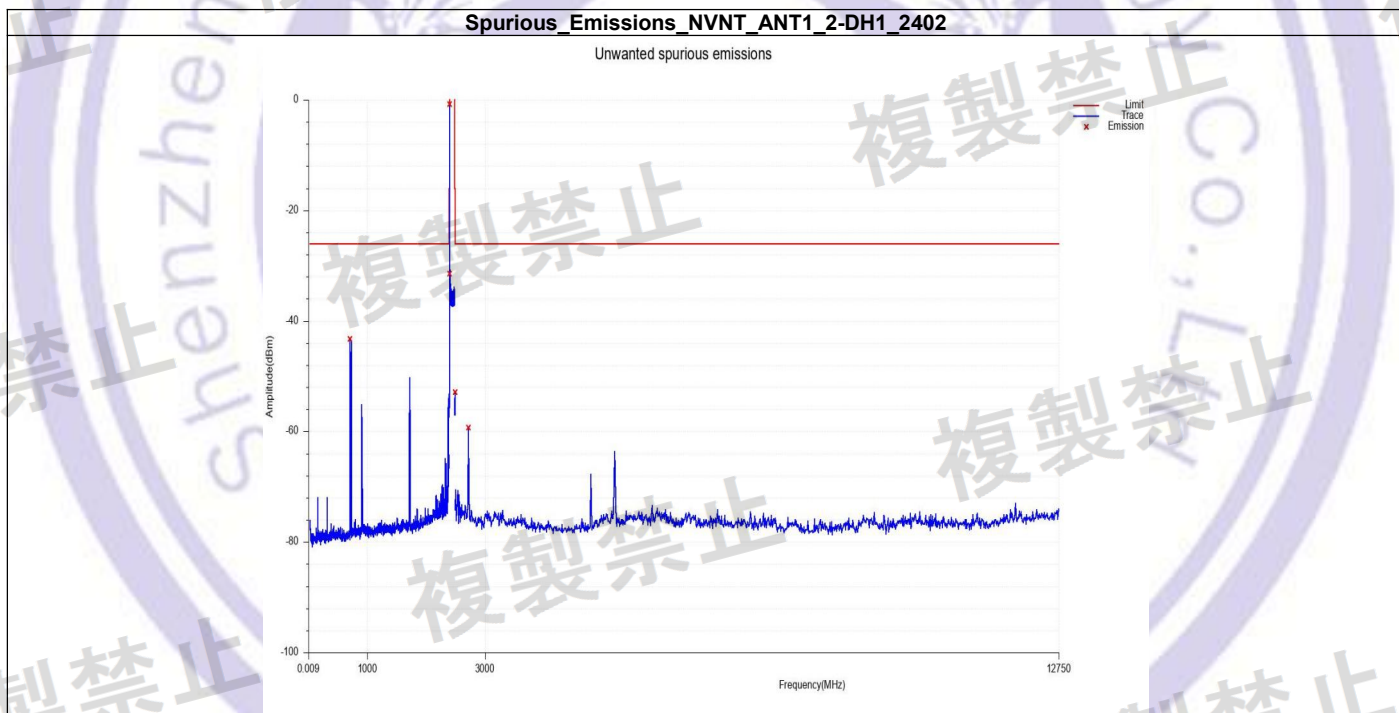
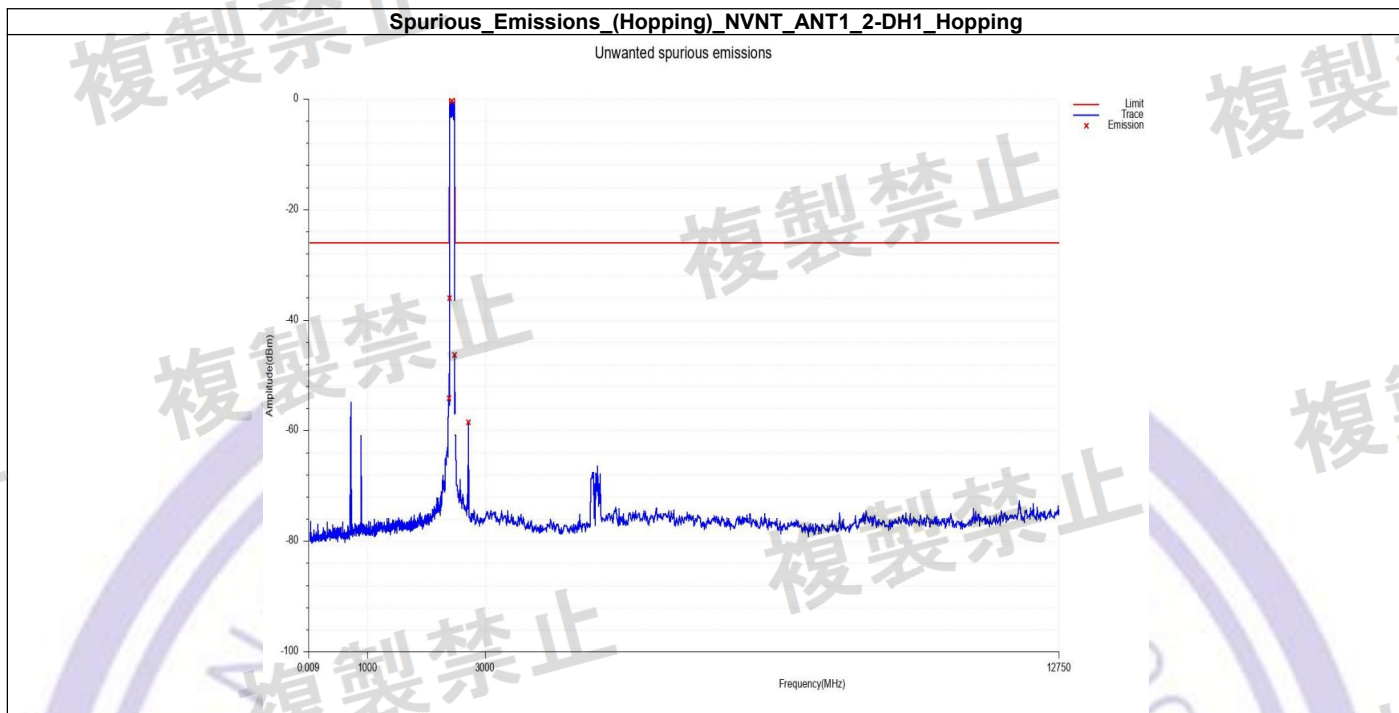
Mode	Frequency(MHz)	Frequency Area(MHz)	RBW(kHz)	Spur. Fre.(MHz)	Spur. Level(dBm)	Limit(dBm)	Spur. Level	Llimit	Result
1-DH1	2402.00	30.00~2387.00	1000	2382.29	-54.85	-26	0.0032μW/MHz	2.5μW/MHz	Pass
1-DH1	2402.00	2387.00~2400.00	1000	2399.78	-32.73	-16	0.5338μW/MHz	25μW/MHz	Pass
1-DH1	2402.00	2400.00~2483.50	/	/	/	/	/	/	/
1-DH1	2402.00	2483.50~2496.50	1000	2483.51	-39.56	-16	0.1106μW/MHz	25μW/MHz	Pass
1-DH1	2402.00	2496.50~12750.00	1000	2722.08	-60.22	-26	0.0009μW/MHz	2.5μW/MHz	Pass
1-DH1	2402.00	30.000000~2387.000000	1000	913.88	-44.48	-26	0.0356μW/MHz	2.5μW/MHz	Pass
1-DH1	2402.00	2387.000000~2400.000000	1000	2400.00	-31.12	-16	0.7727μW/MHz	25μW/MHz	Pass
1-DH1	2402.00	2400.000000~2483.500000	/	/	/	/	/	/	/
1-DH1	2402.00	2483.500000~2496.500000	1000	2495.24	-53.31	-16	0.0046μW/MHz	25μW/MHz	Pass
1-DH1	2402.00	2496.500000~12750.000000	1000	2722.08	-63.03	-26	0.0004μW/MHz	2.5μW/MHz	Pass
1-DH1	2441.00	30.00~2387.00	1000	725.32	-53.76	-26	0.0042μW/MHz	2.5μW/MHz	Pass
1-DH1	2441.00	2387.00~2400.00	1000	2399.88	-32.65	-16	0.5434μW/MHz	25μW/MHz	Pass
1-DH1	2441.00	2400.00~2483.50	/	/	/	/	/	/	/
1-DH1	2441.00	2483.50~2496.50	1000	2483.53	-43.94	-16	0.0403μW/MHz	25μW/MHz	Pass
1-DH1	2441.00	2496.50~12750.00	1000	2609.29	-56.46	-26	0.0022μW/MHz	2.5μW/MHz	Pass
1-DH1	2441.00	30.000000~2387.000000	1000	906.80	-61.79	-26	0.0006μW/MHz	2.5μW/MHz	Pass
1-DH1	2441.00	2387.000000~2400.000000	1000	2389.20	-53.98	-16	0.0039μW/MHz	25μW/MHz	Pass
1-DH1	2441.00	2400.000000~2483.500000	/	/	/	/	/	/	/
1-DH1	2441.00	2483.500000~2496.500000	1000	2493.07	-53.95	-16	0.0040μW/MHz	25μW/MHz	Pass
1-DH1	2441.00	2496.500000~12750.000000	1000	2722.08	-61.04	-26	0.0007μW/MHz	2.5μW/MHz	Pass
1-DH1	2480.00	30.00~2387.00	1000	706.46	-39.56	-26	0.1107μW/MHz	2.5μW/MHz	Pass
1-DH1	2480.00	2387.00~2400.00	1000	2399.75	-33.08	-16	0.4919μW/MHz	25μW/MHz	Pass
1-DH1	2480.00	2400.00~2483.50	/	/	/	/	/	/	/
1-DH1	2480.00	2483.50~2496.50	1000	2483.51	-43.62	-16	0.0434μW/MHz	25μW/MHz	Pass
1-DH1	2480.00	2496.50~12750.00	1000	2496.50	-62.84	-26	0.0005μW/MHz	2.5μW/MHz	Pass
1-DH1	2480.00	30.000000~2387.000000	1000	913.88	-58.35	-26	0.0014μW/MHz	2.5μW/MHz	Pass
1-DH1	2480.00	2387.000000~2400.000000	1000	2390.45	-53.93	-16	0.0040μW/MHz	25μW/MHz	Pass
1-DH1	2480.00	2400.000000~2483.500000	/	/	/	/	/	/	/
1-DH1	2480.00	2483.500000~2496.500000	1000	2483.50	-39.06	-16	0.1242μW/MHz	25μW/MHz	Pass
1-DH1	2480.00	2496.500000~12750.000000	1000	2506.75	-62.88	-26	0.0005μW/MHz	2.5μW/MHz	Pass
2-DH1	2402.00	30.00~2387.00	1000	2387.00	-54.15	-26	0.0038μW/MHz	2.5μW/MHz	Pass
2-DH1	2402.00	2387.00~2400.00	1000	2400.00	-36.07	-16	0.2471μW/MHz	25μW/MHz	Pass
2-DH1	2402.00	2400.00~2483.50	/	/	/	/	/	/	/
2-DH1	2402.00	2483.50~2496.50	1000	2485.14	-46.36	-16	0.0231μW/MHz	25μW/MHz	Pass
2-DH1	2402.00	2496.50~12750.00	1000	2722.08	-58.51	-26	0.0014μW/MHz	2.5μW/MHz	Pass
2-DH1	2402.00	30.000000~2387.000000	1000	706.46	-43.20	-26	0.0478μW/MHz	2.5μW/MHz	Pass
2-DH1	2402.00	2387.000000~2400.000000	1000	2400.00	-31.46	-16	0.7152μW/MHz	25μW/MHz	Pass
2-DH1	2402.00	2400.000000~2483.500000	/	/	/	/	/	/	/
2-DH1	2402.00	2483.500000~2496.500000	1000	2496.32	-52.93	-16	0.0050μW/MHz	25μW/MHz	Pass
2-DH1	2402.00	2496.500000~12750.000000	1000	2722.08	-59.25	-26	0.0011μW/MHz	2.5μW/MHz	Pass
2-DH1	2441.00	30.00~2387.00	1000	1727.04	-53.79	-26	0.0041μW/MHz	2.5μW/MHz	Pass
2-DH1	2441.00	2387.00~2400.00	1000	2399.47	-35.14	-16	0.3062μW/MHz	25μW/MHz	Pass
2-DH1	2441.00	2400.00~2483.50	/	/	/	/	/	/	/
2-DH1	2441.00	2483.50~2496.50	1000	2483.50	-39.41	-16	0.1144μW/MHz	25μW/MHz	Pass
2-DH1	2441.00	2496.50~12750.00	1000	2496.50	-61.83	-26	0.0006μW/MHz	2.5μW/MHz	Pass
2-DH1	2441.00	30.000000~2387.000000	1000	725.32	-46.18	-26	0.0241μW/MHz	2.5μW/MHz	Pass
2-DH1	2441.00	2387.000000~2400.000000	1000	2398.53	-53.76	-16	0.0042μW/MHz	25μW/MHz	Pass
2-DH1	2441.00	2400.000000~2483.500000	/	/	/	/	/	/	/
2-DH1	2441.00	2483.500000~2496.500000	1000	2493.29	-54.15	-16	0.0038μW/MHz	25μW/MHz	Pass
2-DH1	2441.00	2496.500000~12750.000000	1000	2722.08	-60.50	-26	0.0008μW/MHz	2.5μW/MHz	Pass
2-DH1	2480.00	30.00~2387.00	1000	2384.64	-53.60	-26	0.0043μW/MHz	2.5μW/MHz	Pass
2-DH1	2480.00	2387.00~2400.00	1000	2399.86	-32.76	-16	0.5296μW/MHz	25μW/MHz	Pass
2-DH1	2480.00	2400.00~2483.50	/	/	/	/	/	/	/
2-DH1	2480.00	2483.50~2496.50	1000	2484.22	-43.11	-16	0.0488μW/MHz	25μW/MHz	Pass
2-DH1	2480.00	2496.50~12750.00	1000	2496.50	-61.12	-26	0.0007μW/MHz	2.5μW/MHz	Pass
2-DH1	2480.00	30.000000~2387.000000	1000	1745.90	-56.73	-26	0.0021μW/MHz	2.5μW/MHz	Pass
2-DH1	2480.00	2387.000000~2400.000000	1000	2394.33	-53.83	-16	0.0041μW/MHz	25μW/MHz	Pass
2-DH1	2480.00	2400.000000~2483.500000	/	/	/	/	/	/	/
2-DH1	2480.00	2483.500000~2496.500000	1000	2483.57	-39.53	-16	0.1113μW/MHz	25μW/MHz	Pass
2-DH1	2480.00	2496.500000~12750.000000	1000	2506.75	-62.06	-26	0.0006μW/MHz	2.5μW/MHz	Pass
3-DH1	2402.00	30.00~2387.00	1000	1729.40	-52.55	-26	0.0055μW/MHz	2.5μW/MHz	Pass
3-DH1	2402.00	2387.00~2400.00	1000	2399.91	-37.16	-16	0.1921μW/MHz	25μW/MHz	Pass
3-DH1	2402.00	2400.00~2483.50	/	/	/	/	/	/	/
3-DH1	2402.00	2483.50~2496.50	1000	2483.58	-39.50	-16	0.1122μW/MHz	25μW/MHz	Pass
3-DH1	2402.00	2496.50~12750.00	1000	2722.08	-60.32	-26	0.0009μW/MHz	2.5μW/MHz	Pass
3-DH1	2402.00	30.000000~2387.000000	1000	2377.57	-54.63	-26	0.0034μW/MHz	2.5μW/MHz	Pass
3-DH1	2402.00	2387.000000~2400.000000	1000	2400.00	-31.44	-16	0.7174μW/MHz	25μW/MHz	Pass
3-DH1	2402.00	2400.000000~2483.500000	/	/	/	/	/	/	/
3-DH1	2402.00	2483.500000~2496.500000	1000	2489.30	-52.42	-16	0.0057μW/MHz	25μW/MHz	Pass
3-DH1	2402.00	2496.500000~12750.000000	1000	2722.08	-63.34	-26	0.0004μW/MHz	2.5μW/MHz	Pass
3-DH1	2441.00	30.00~2387.00	1000	2387.00	-54.29	-26	0.0037μW/MHz	2.5μW/MHz	Pass
3-DH1	2441.00	2387.00~2400.00	1000	2399.56	-34.58	-16	0.3479μW/MHz	25μW/MHz	Pass
3-DH1	2441.00	2400.00~2483.50	/	/	/	/	/	/	/

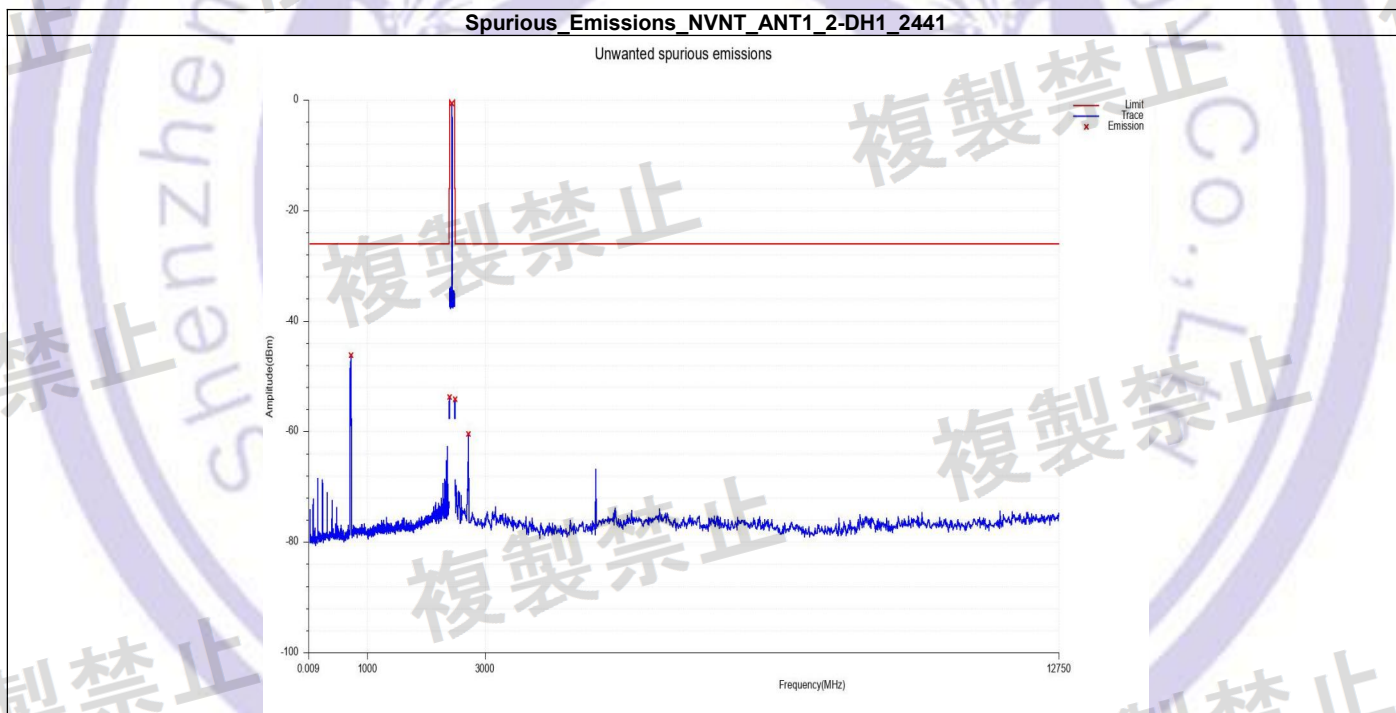
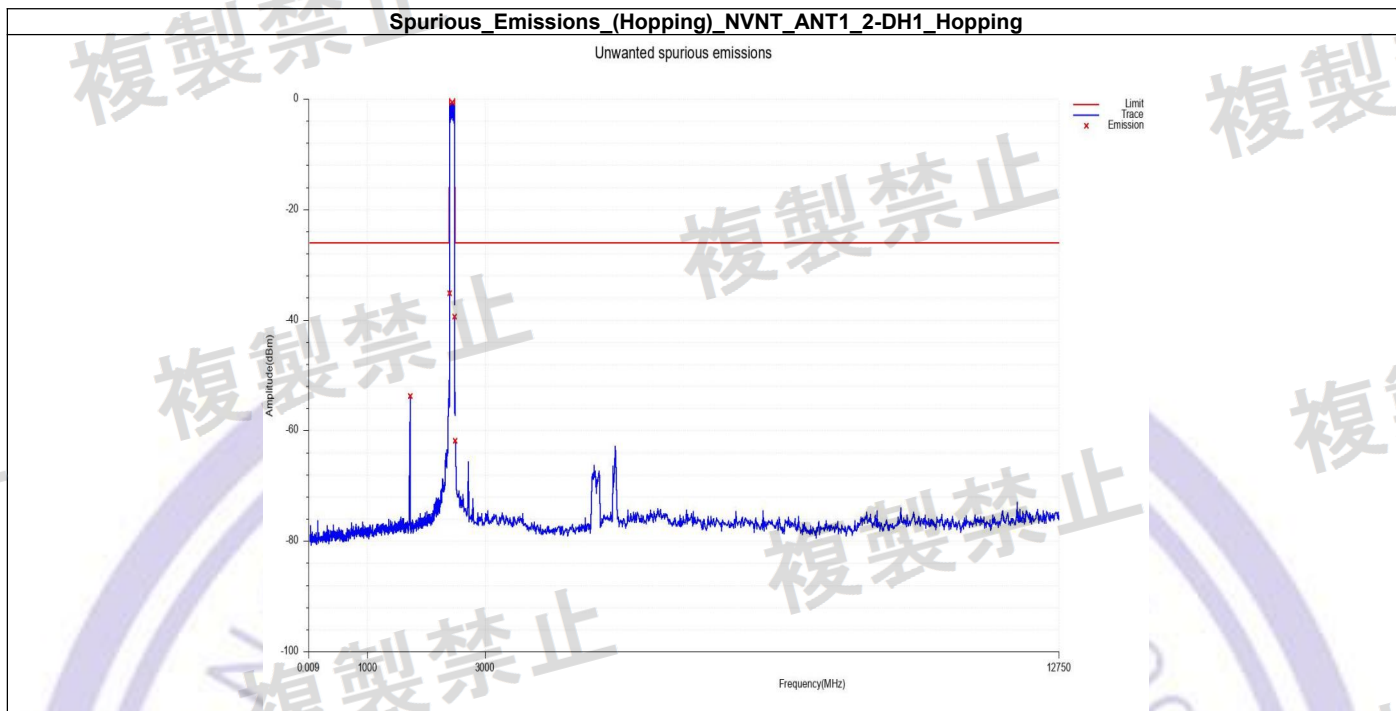
3-DH1	2441.00	2483.50~2496.50	1000	2484.05	-42.13	-16	0.0611μW/MHz	25μW/MHz	Pass
3-DH1	2441.00	2496.50~12750.00	1000	2506.75	-60.63	-26	0.0008μW/MHz	2.5μW/MHz	Pass
3-DH1	2441.00	30.000000~2387.000000	1000	2363.43	-62.45	-26	0.0005μW/MHz	2.5μW/MHz	Pass
3-DH1	2441.00	2387.000000~2400.000000	1000	2393.45	-54.19	-16	0.0038μW/MHz	25μW/MHz	Pass
3-DH1	2441.00	2400.000000~2483.500000	/	/	/	/	/	/	/
3-DH1	2441.00	2483.500000~2496.500000	1000	2488.51	-53.73	-16	0.0042μW/MHz	25μW/MHz	Pass
3-DH1	2441.00	2496.500000~12750.000000	1000	4885.57	-65.46	-26	0.0002μW/MHz	2.5μW/MHz	Pass
3-DH1	2480.00	30.00~2387.00	1000	715.89	-47.97	-26	0.0159μW/MHz	2.5μW/MHz	Pass
3-DH1	2480.00	2387.00~2400.00	1000	2399.58	-34.49	-16	0.3558μW/MHz	25μW/MHz	Pass
3-DH1	2480.00	2400.00~2483.50	/	/	/	/	/	/	/
3-DH1	2480.00	2483.50~2496.50	1000	2484.03	-41.96	-16	0.0637μW/MHz	25μW/MHz	Pass
3-DH1	2480.00	2496.50~12750.00	1000	2506.75	-60.71	-26	0.0008μW/MHz	2.5μW/MHz	Pass
3-DH1	2480.00	30.000000~2387.000000	1000	911.52	-49.02	-26	0.0125μW/MHz	2.5μW/MHz	Pass
3-DH1	2480.00	2387.000000~2400.000000	1000	2397.31	-54.33	-16	0.0036μW/MHz	25μW/MHz	Pass
3-DH1	2480.00	2400.000000~2483.500000	/	/	/	/	/	/	/
3-DH1	2480.00	2483.500000~2496.500000	1000	2483.54	-39.03	-16	0.1251μW/MHz	25μW/MHz	Pass
3-DH1	2480.00	2496.500000~12750.000000	1000	2722.08	-59.65	-26	0.0010μW/MHz	2.5μW/MHz	Pass

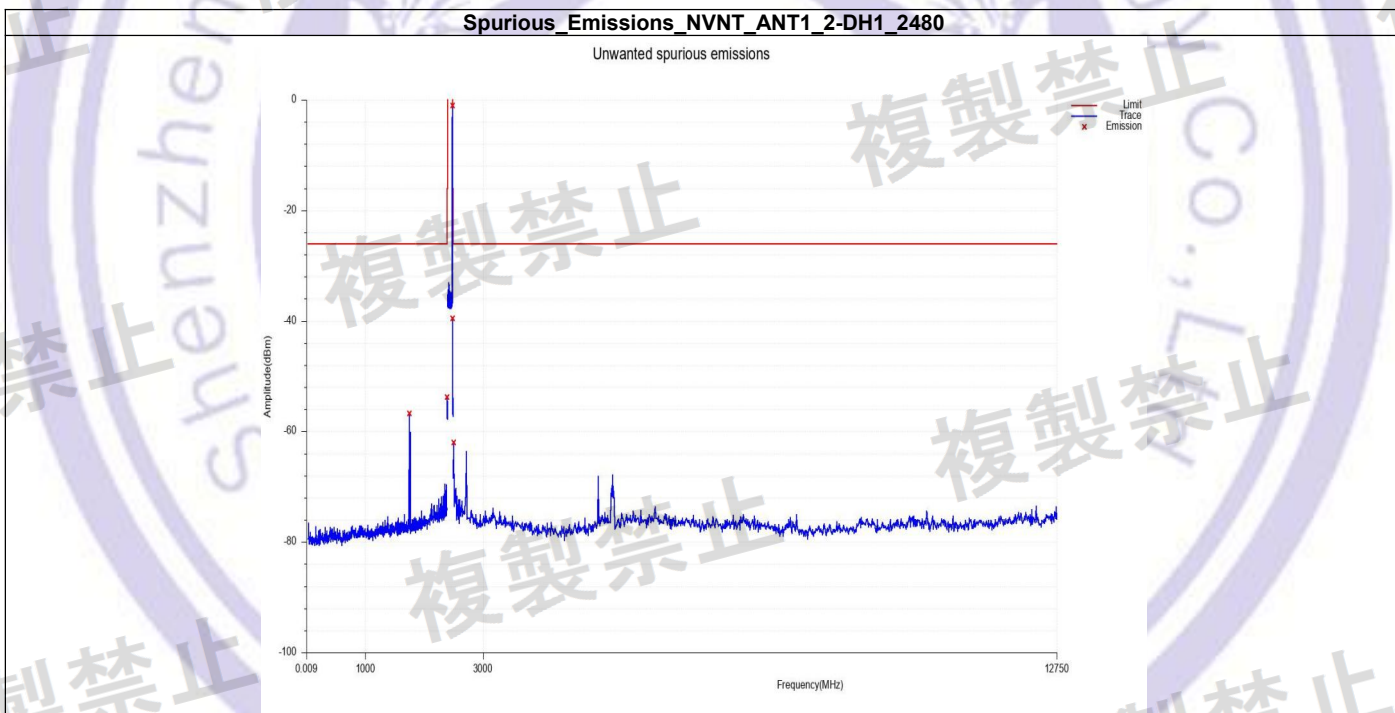
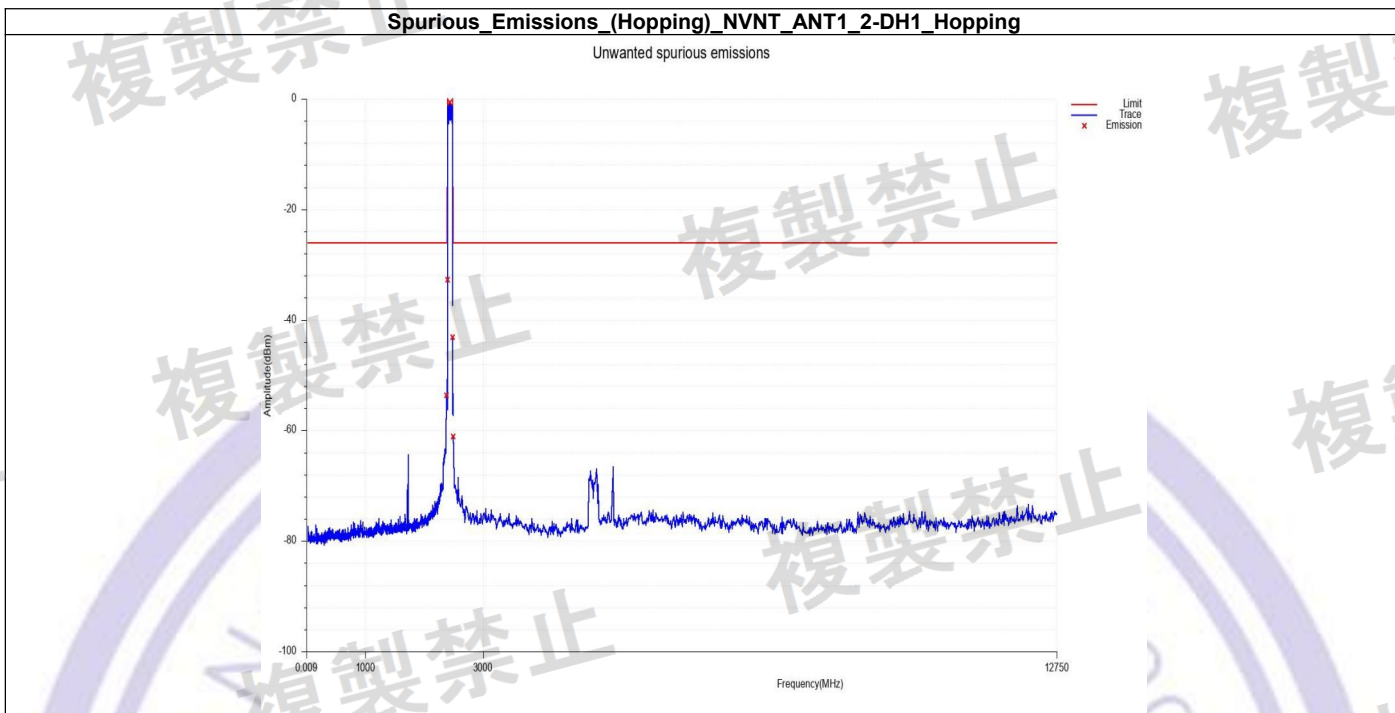


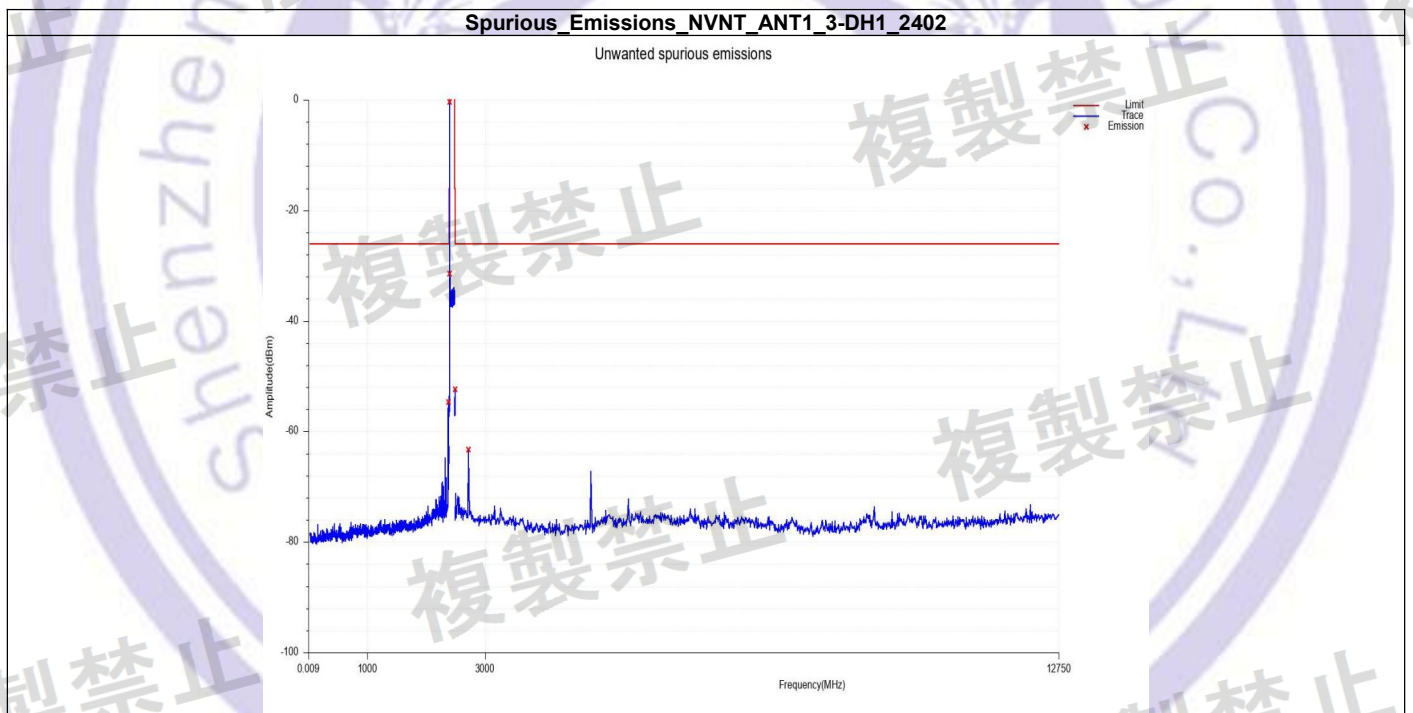
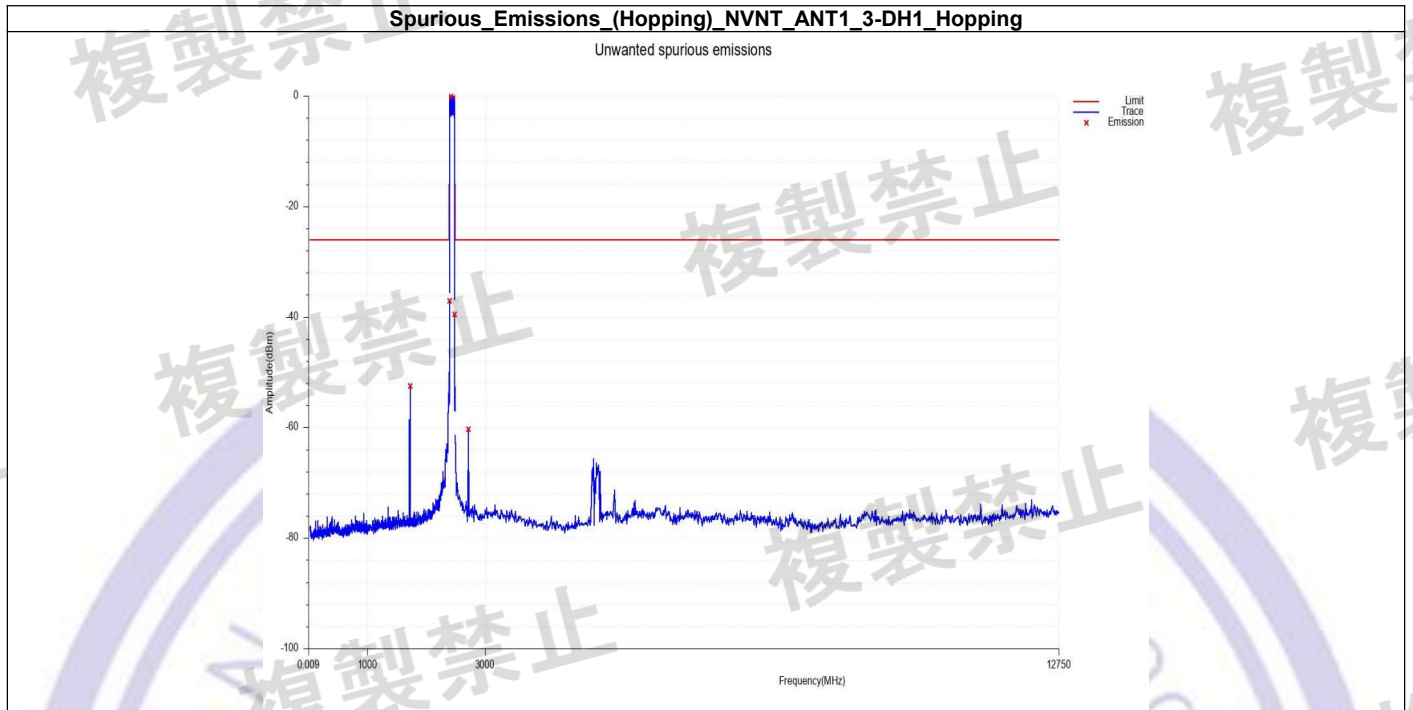


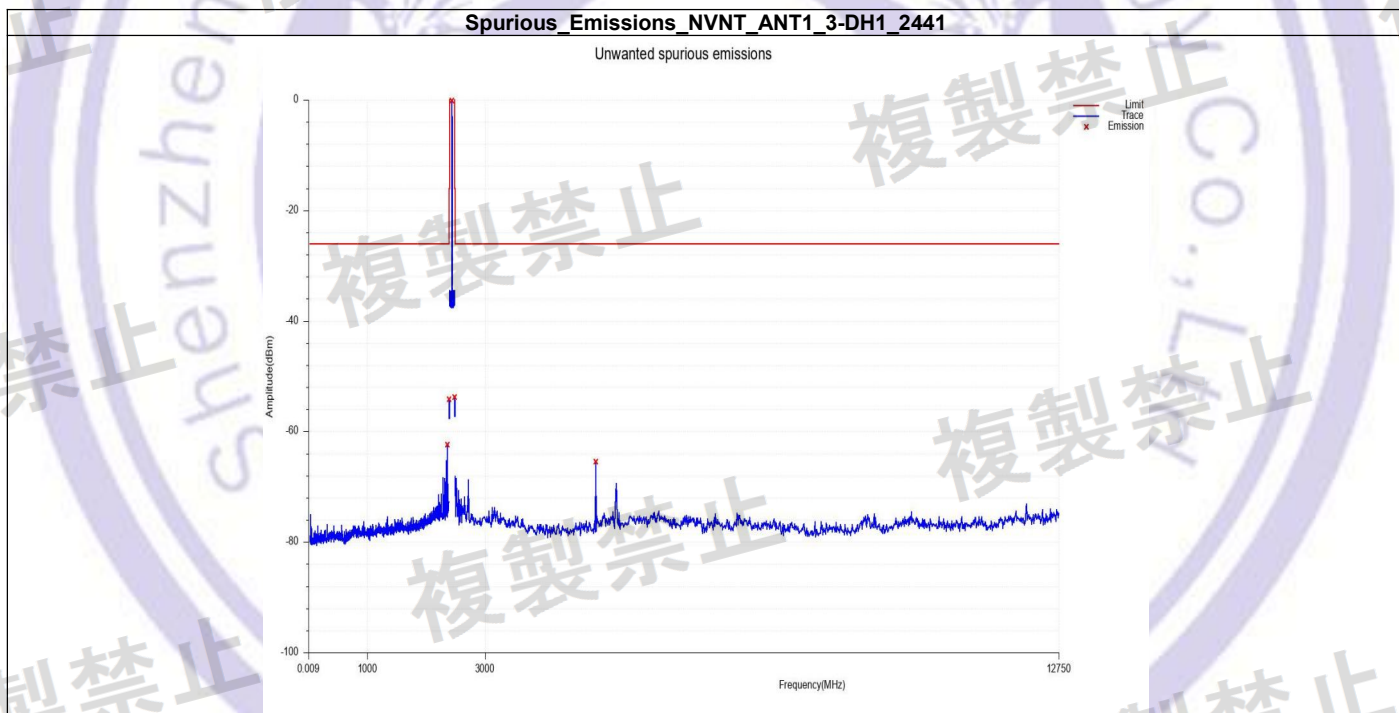
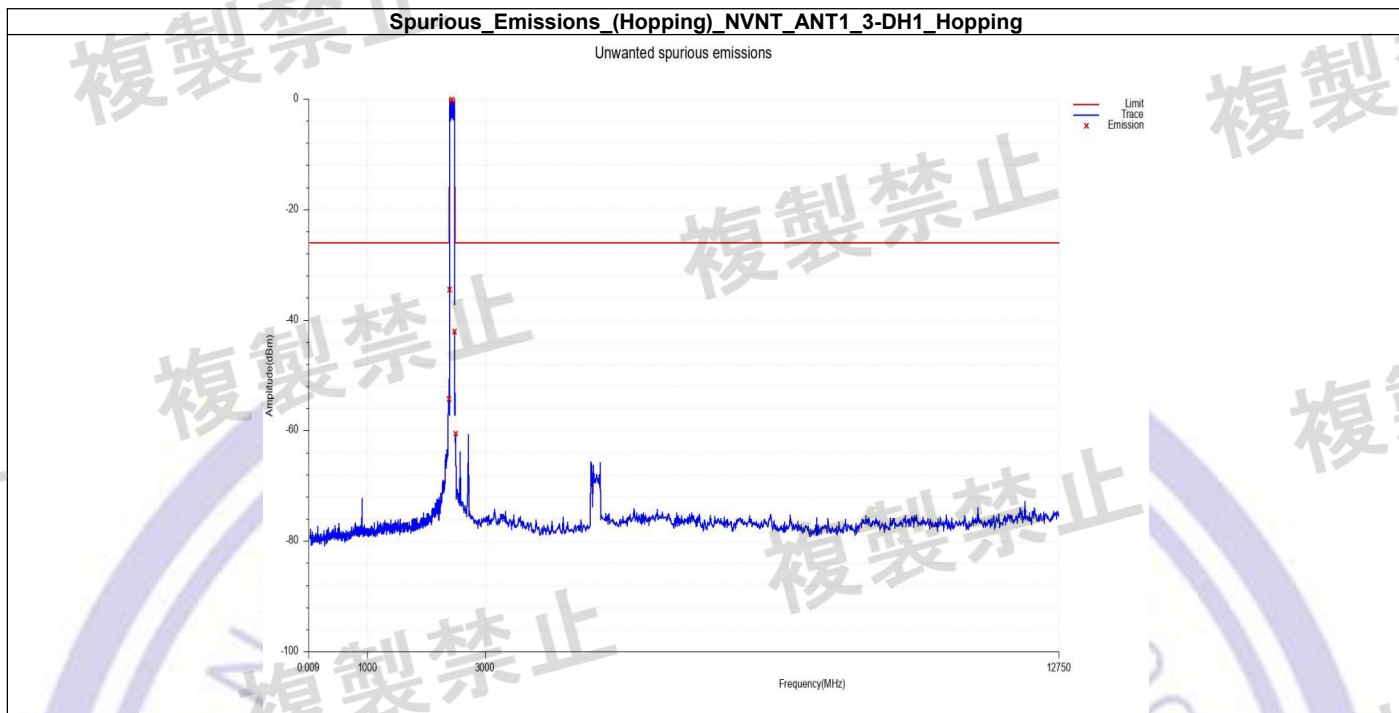






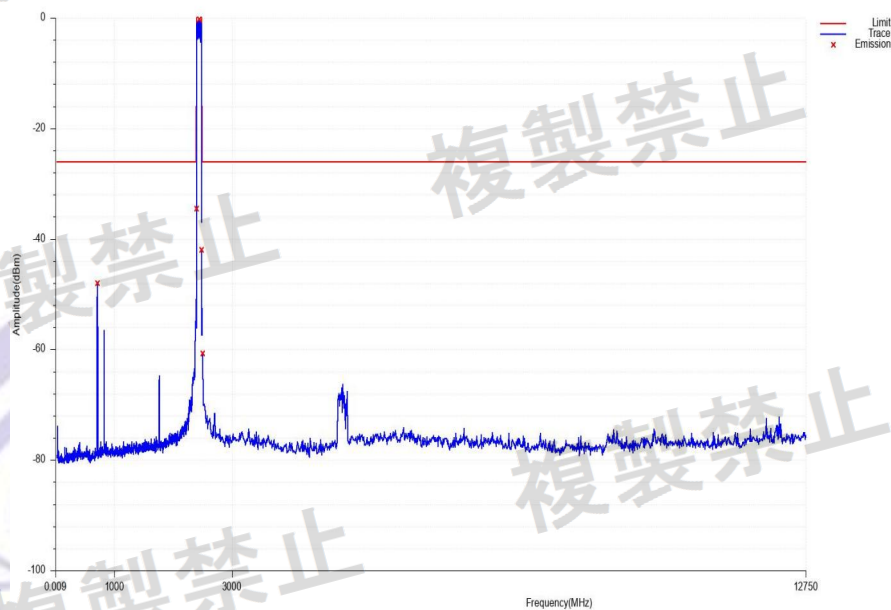






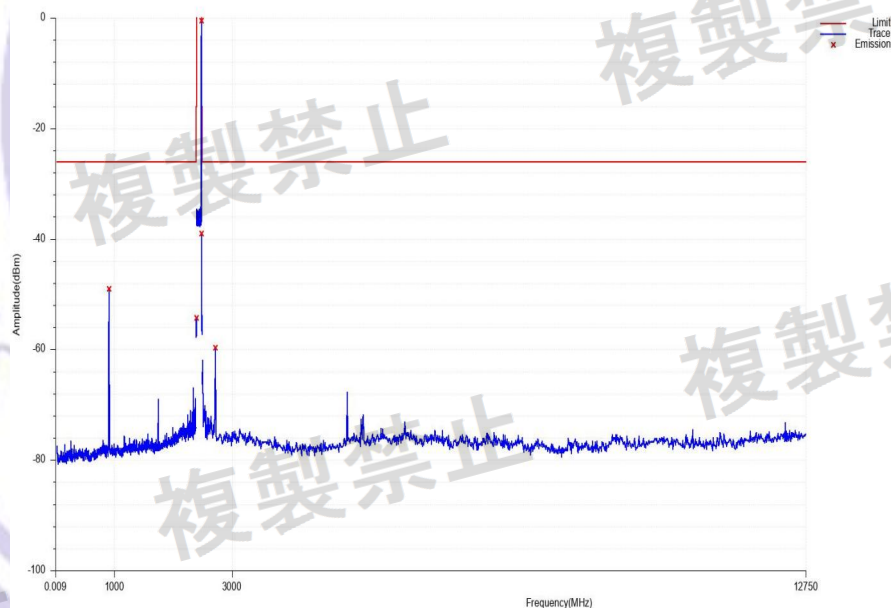
Spurious Emissions (Hopping)_NVNT_ANT1_3-DH1_Hopping

Unwanted spurious emissions



Spurious Emissions_NVNT_ANT1_3-DH1_2480

Unwanted spurious emissions



8. DWELL TIME

8.1. LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

8.2. MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

8.3. TEST PROCEDURES

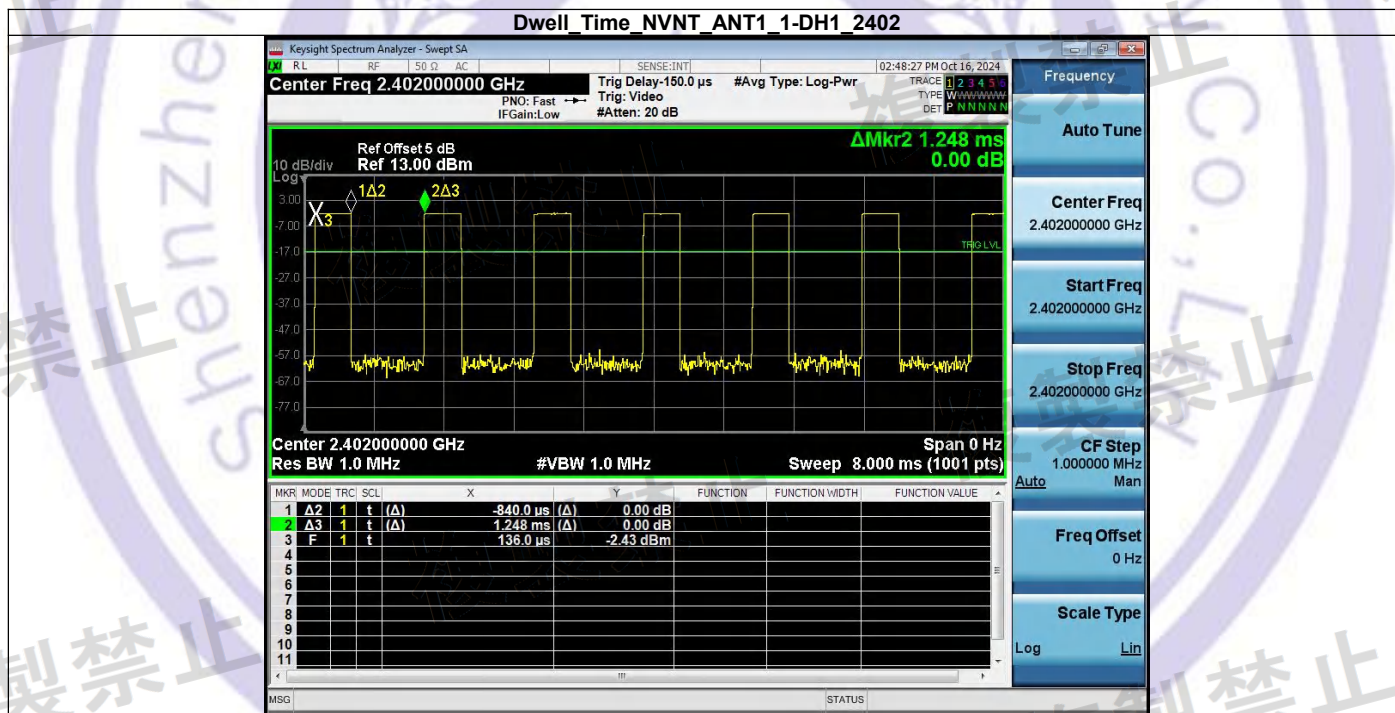
- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for packet transmitting.
- Measure the maximum time duration of one single pulse.

8.4. TEST SETUP LAYOUT

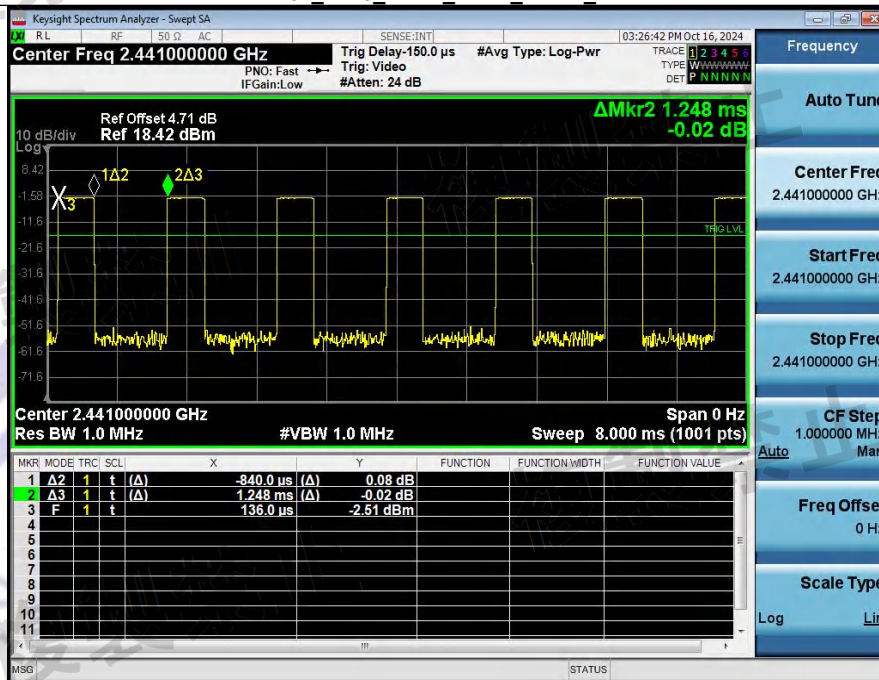


8.5. TEST RESULT

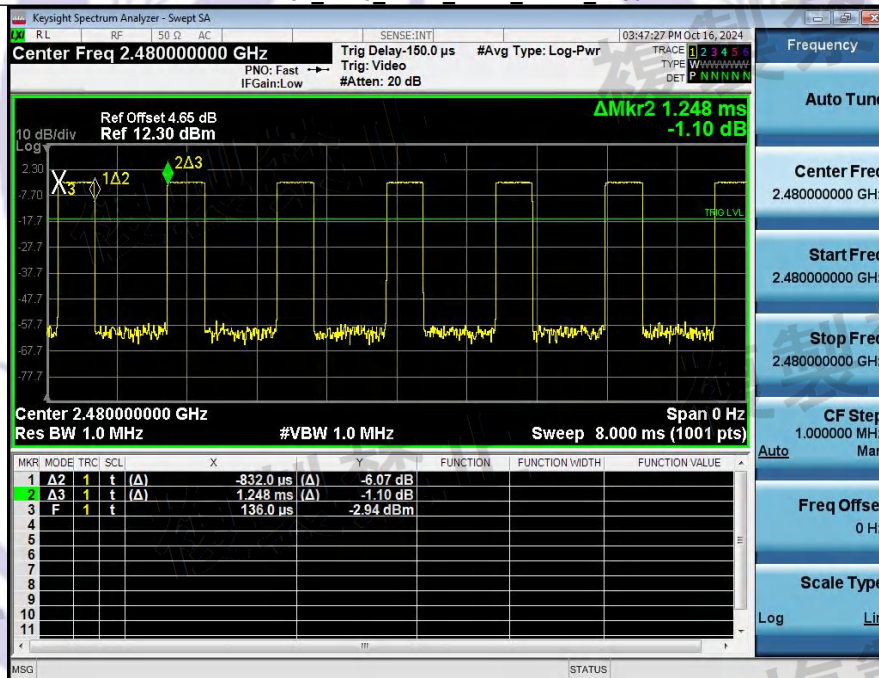
Modulation	mode	Burst Time(ms)	Burst Cycle(ms)	Dwell Time(s)	Limit(s)	Result
1-DH1	Hopping	0.408	1.248	0.118	0.4	Pass
1-DH1	Hopping	0.408	1.248	0.118	0.4	Pass
1-DH1	Hopping	0.416	1.248	0.120	0.4	Pass
2-DH1	Hopping	0.424	1.256	0.122	0.4	Pass
2-DH1	Hopping	0.416	1.248	0.120	0.4	Pass
2-DH1	Hopping	0.424	1.248	0.123	0.4	Pass
3-DH1	Hopping	0.424	1.248	0.123	0.4	Pass
3-DH1	Hopping	0.424	1.248	0.122	0.4	Pass
3-DH1	Hopping	0.424	1.256	0.122	0.4	Pass
1-DH3	Hopping	1.664	2.496	0.239	0.4	Pass
1-DH5	Hopping	2.912	3.744	0.279	0.4	Pass
2-DH3	Hopping	1.672	2.496	0.240	0.4	Pass
2-DH5	Hopping	2.920	3.752	0.279	0.4	Pass
3-DH3	Hopping	1.672	2.496	0.240	0.4	Pass
3-DH5	Hopping	2.920	3.744	0.280	0.4	Pass



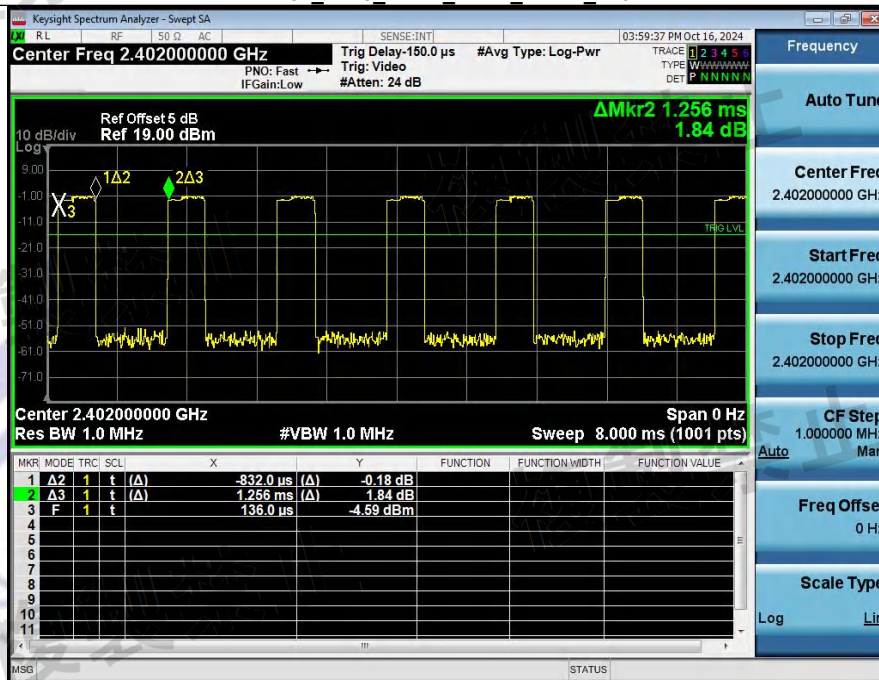
Dwell Time_NVNT_ANT1_1-DH1_2441



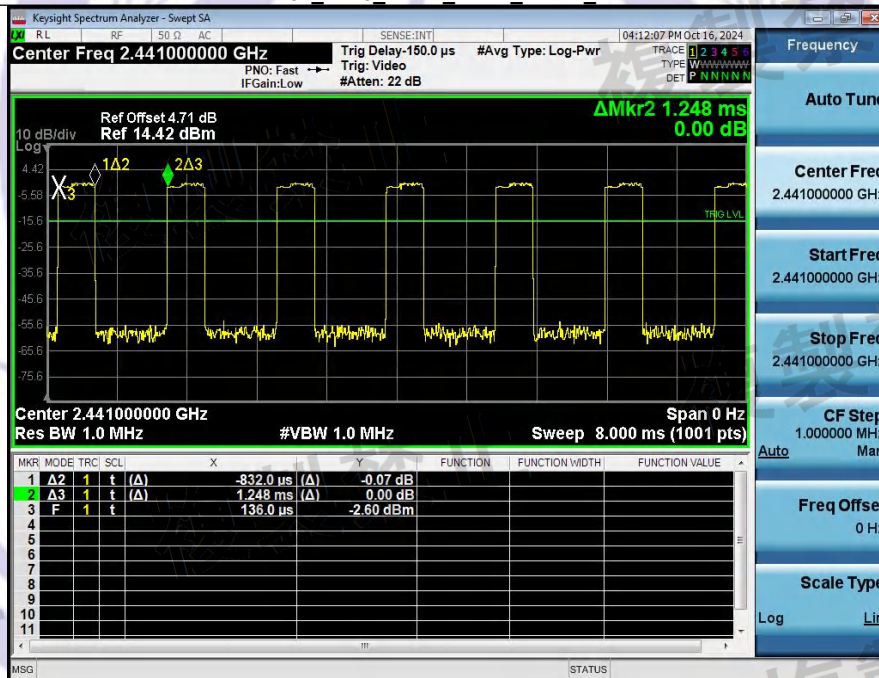
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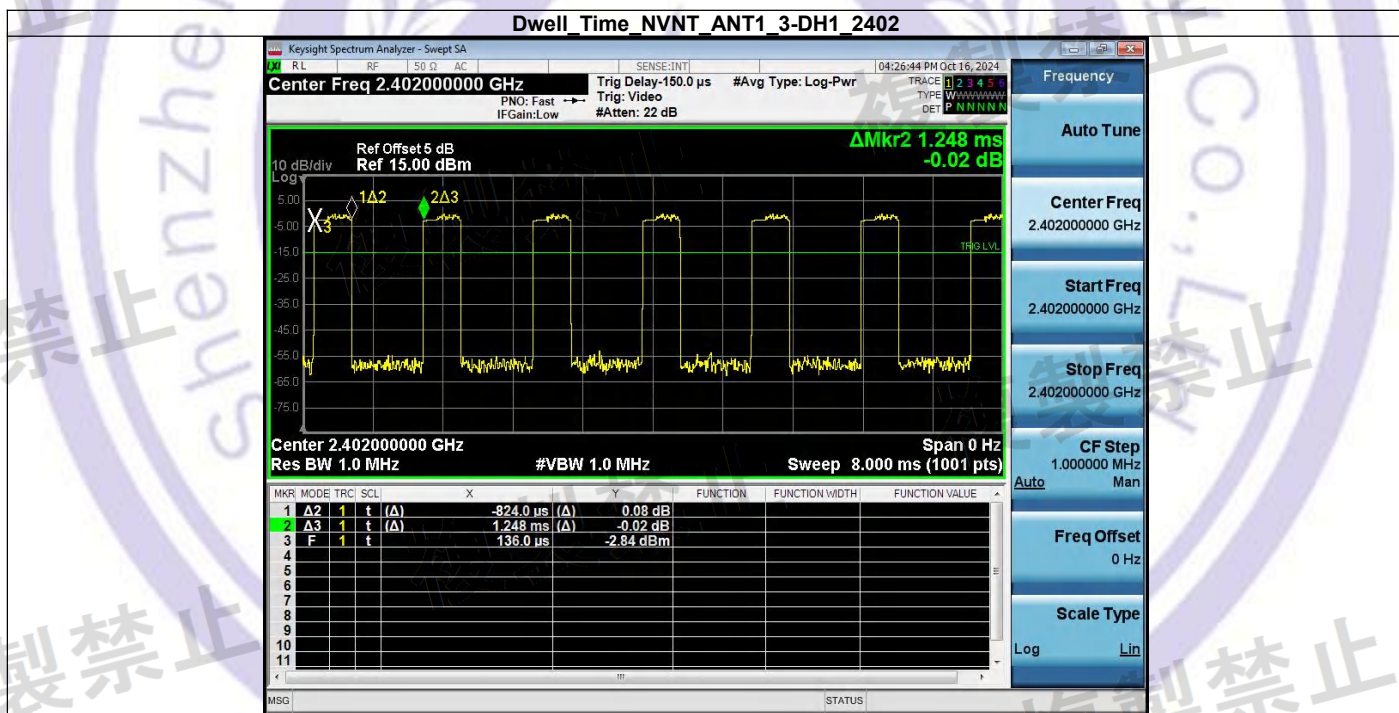
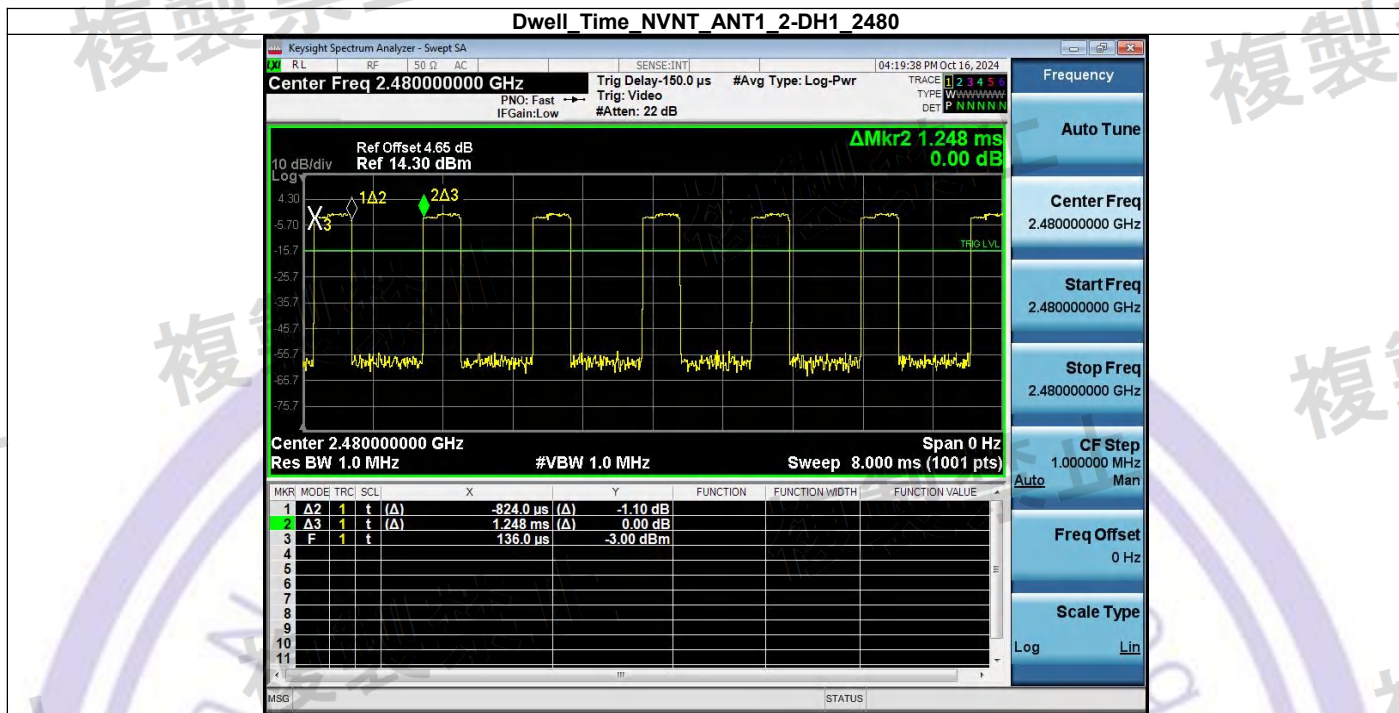


Dwell Time_NVNT_ANT1_2-DH1_2402

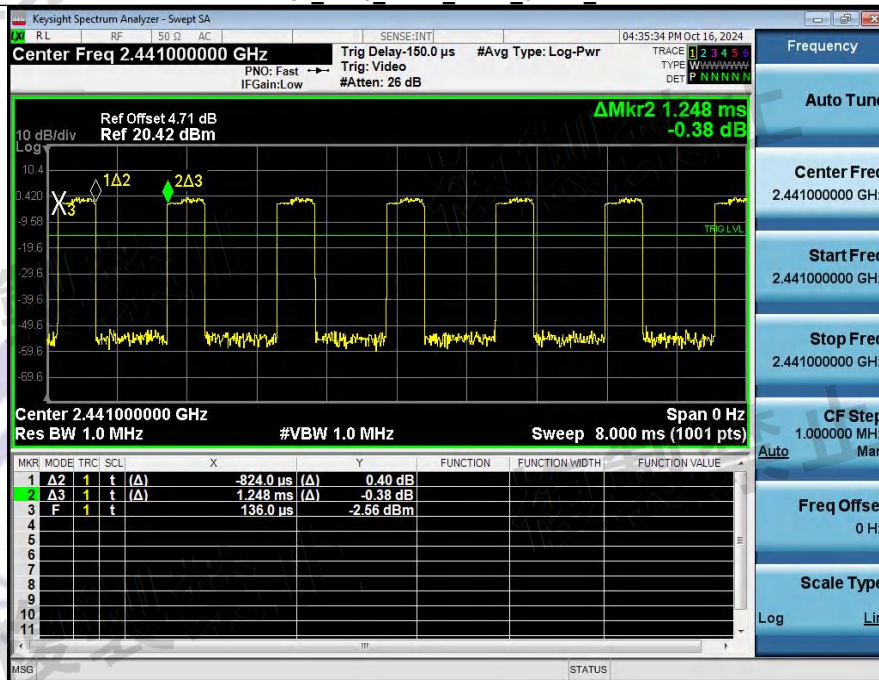


Dwell Time_NVNT_ANT1_2-DH1_2441

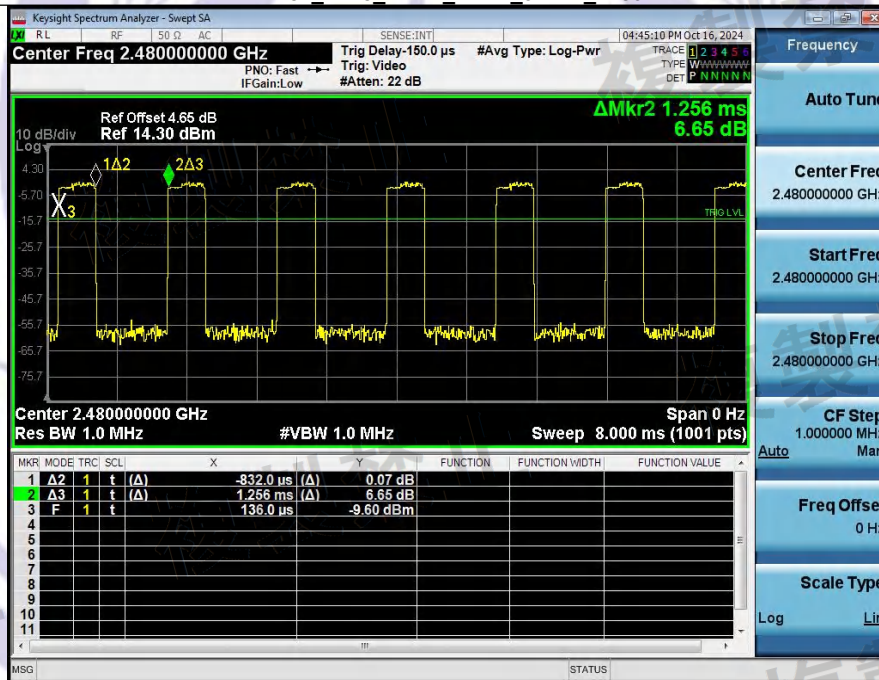




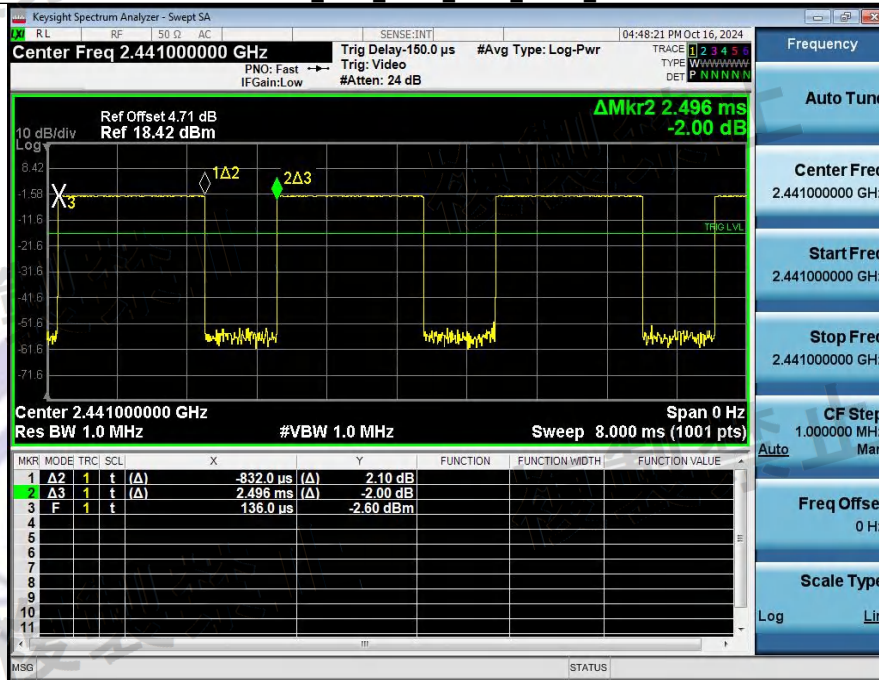
Dwell Time_NVNT_ANT1_3-DH1_2441



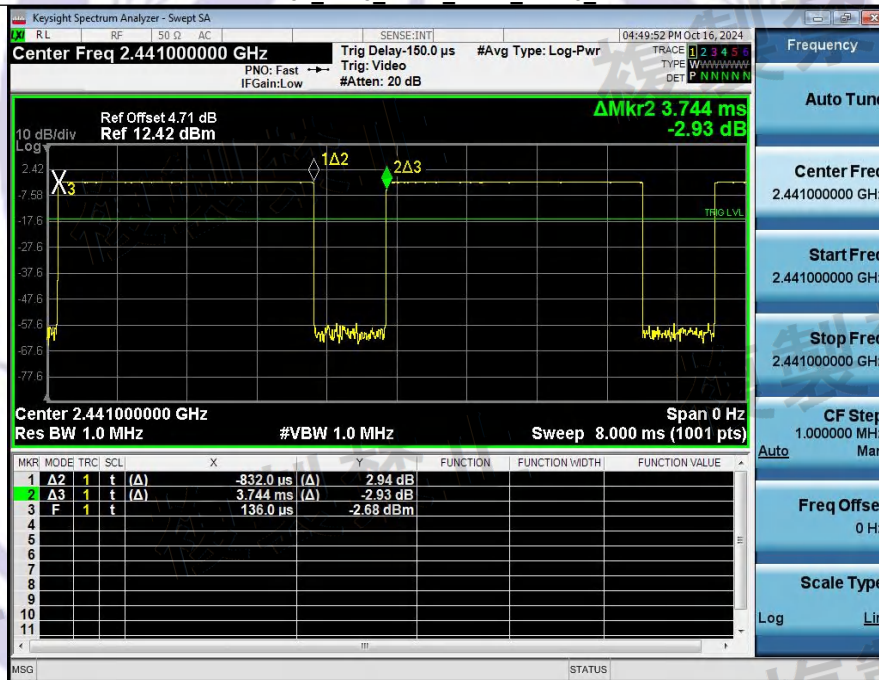
Dwell Time_NVNT_ANT1_3-DH1_2480



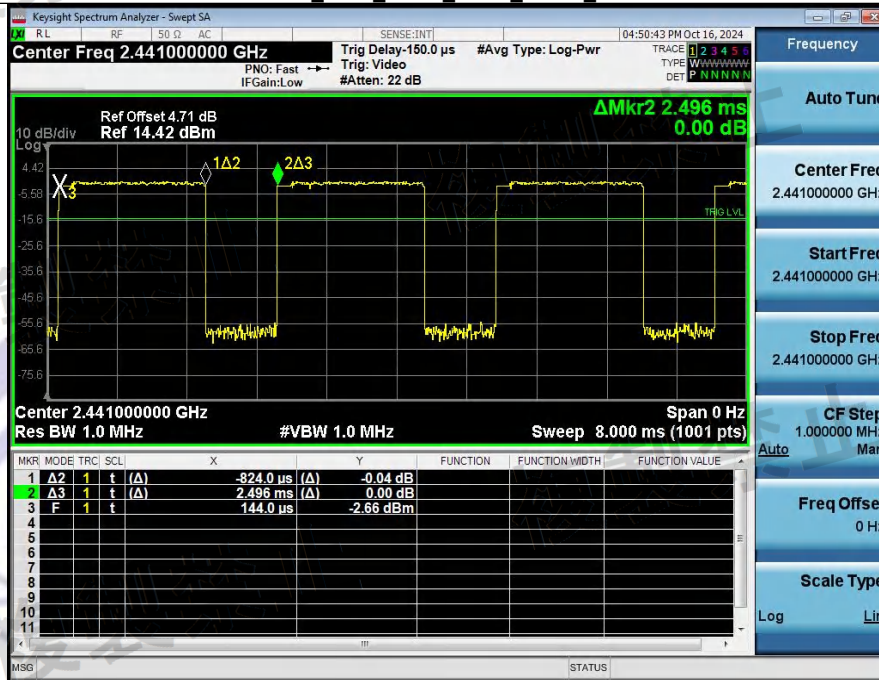
Dwell Time_NVNT_ANT1_1-DH3_2441



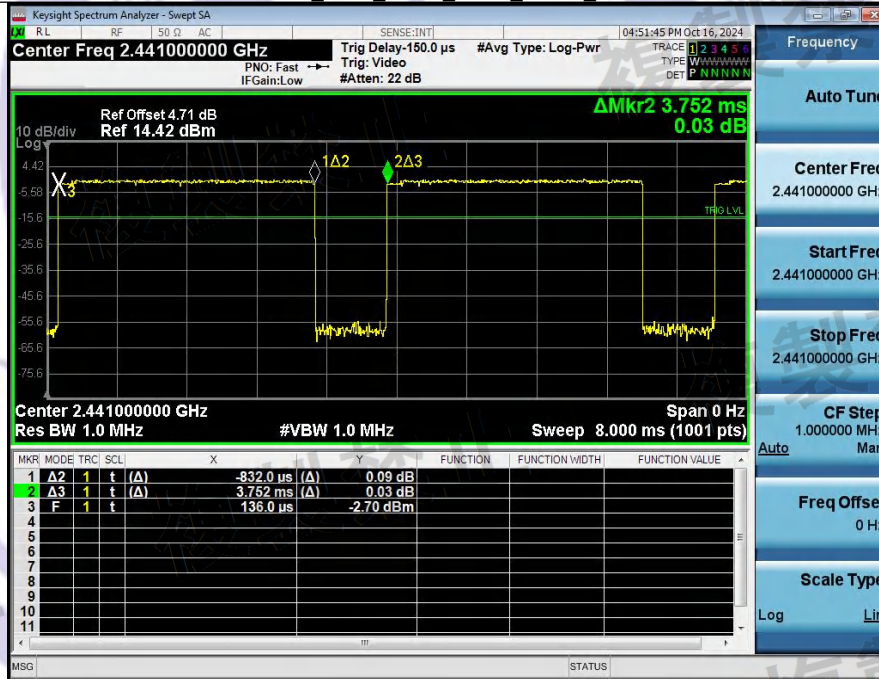
Dwell Time_NVNT_ANT1_1-DH5_2441



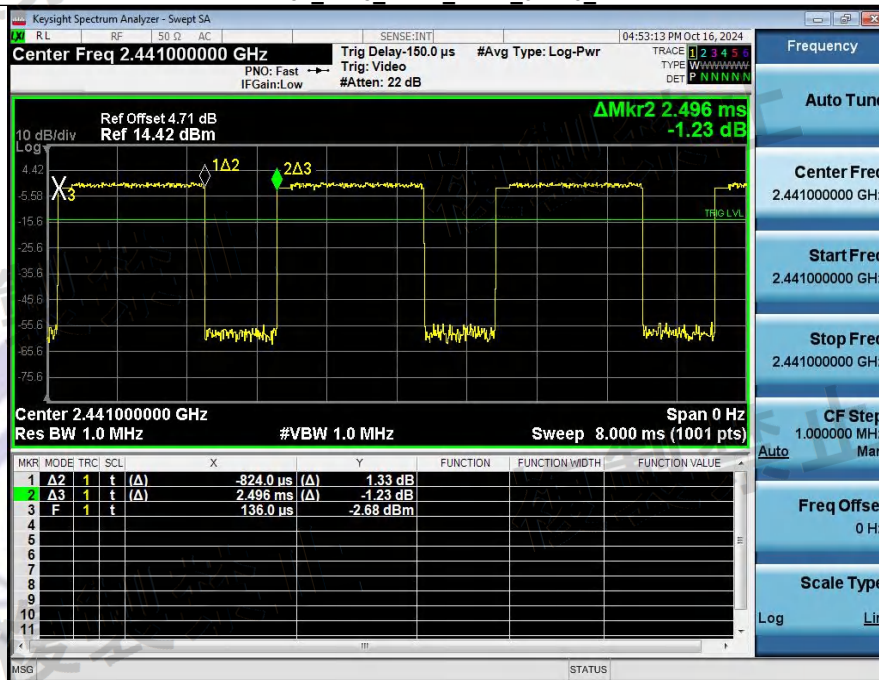
Dwell Time_NVNT_ANT1_2-DH3_2441



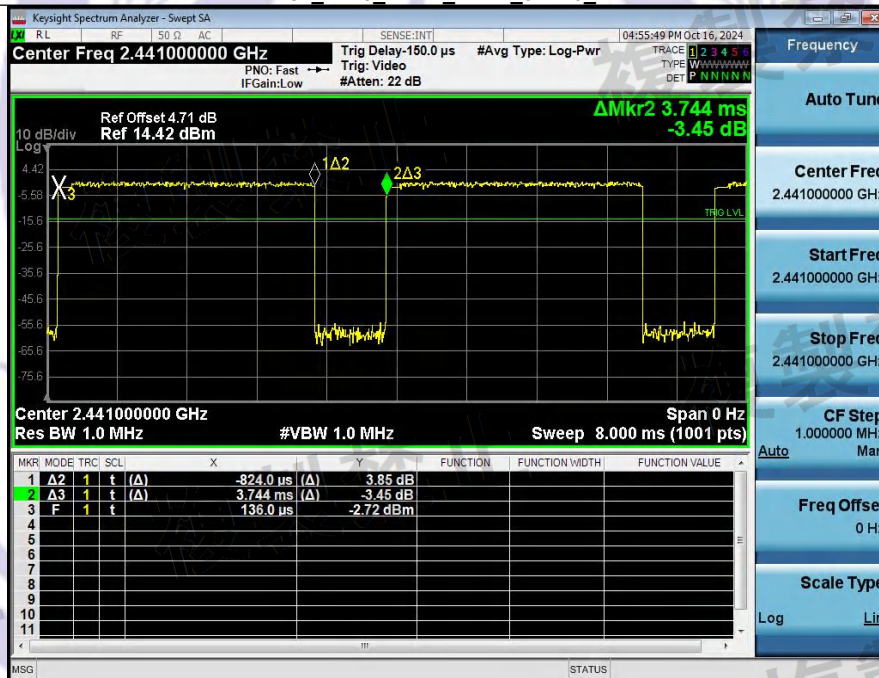
Dwell Time_NVNT_ANT1_2-DH5_2441



Dwell Time NVNT_ANT1 3-DH3 2441



Dwell Time NVNT_ANT1 3-DH5 2441



9. CARRIER SENSE

Not applicable

10. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

10.1. LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}(-54\text{dBm}) (f < 1\text{GHz})$
	$\leq 20\text{nW}(-47\text{dBm}) (1\text{GHz} \leq f)$

10.2. MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.3. TEST PROCEDURES

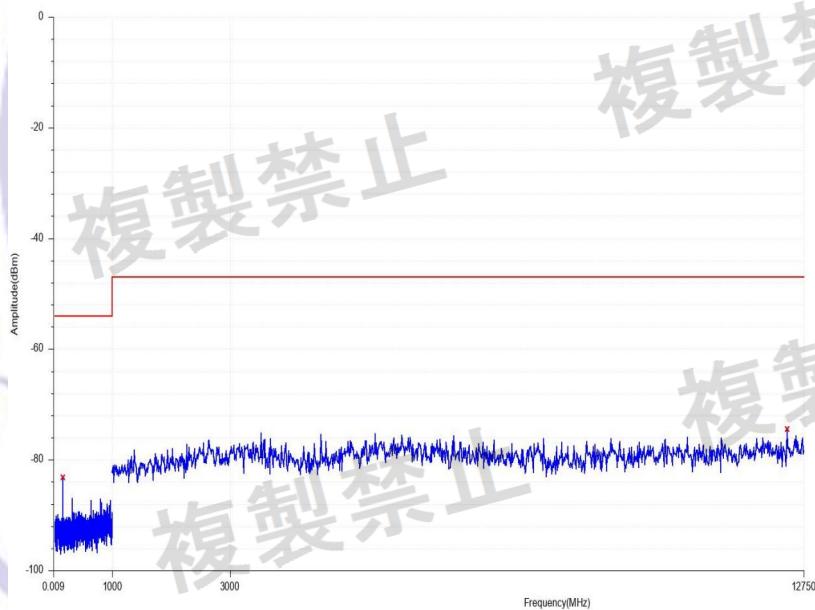
- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

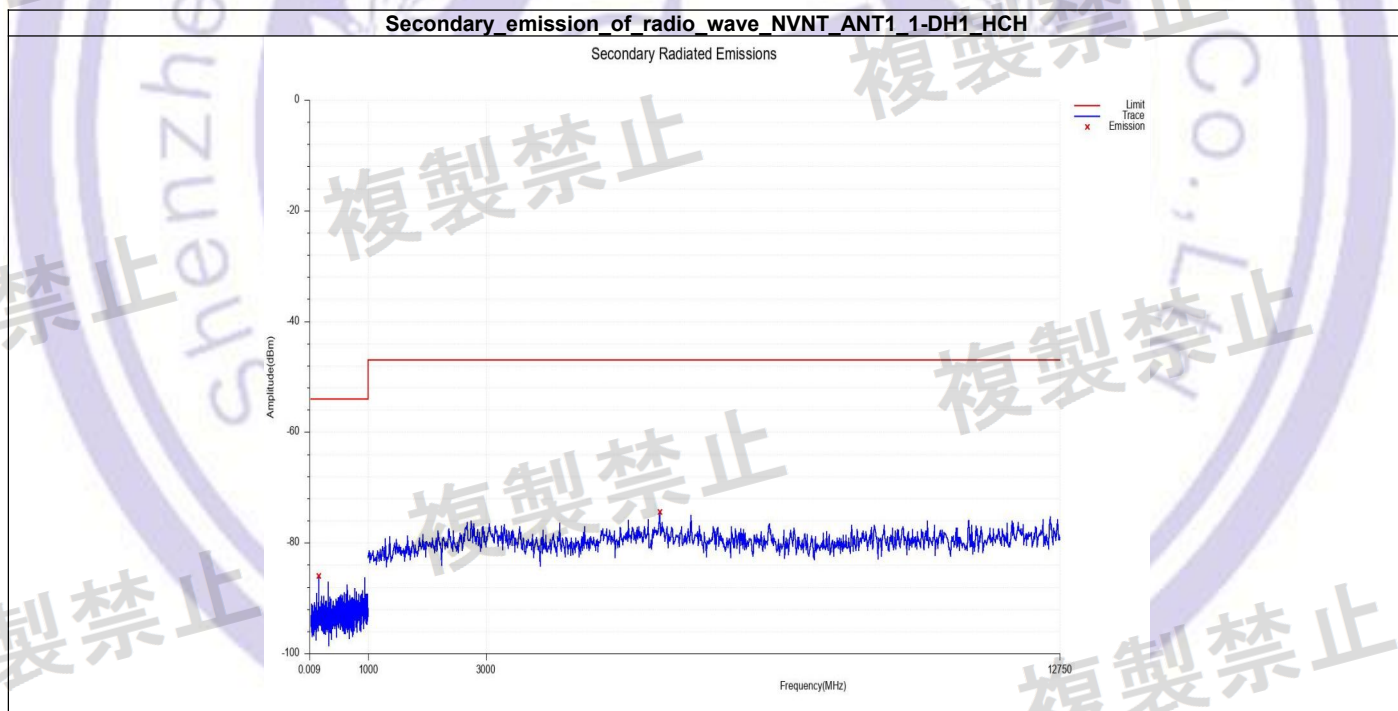
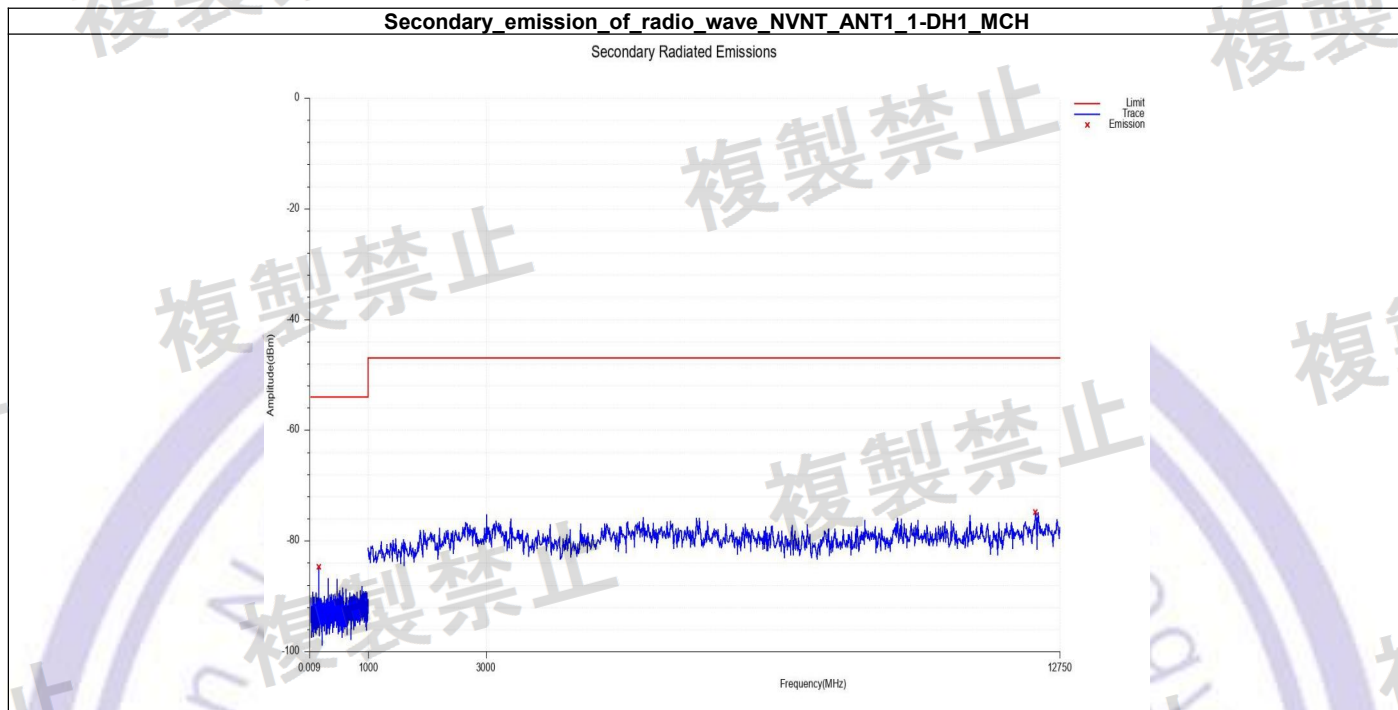
10. 4. TEST RESULT

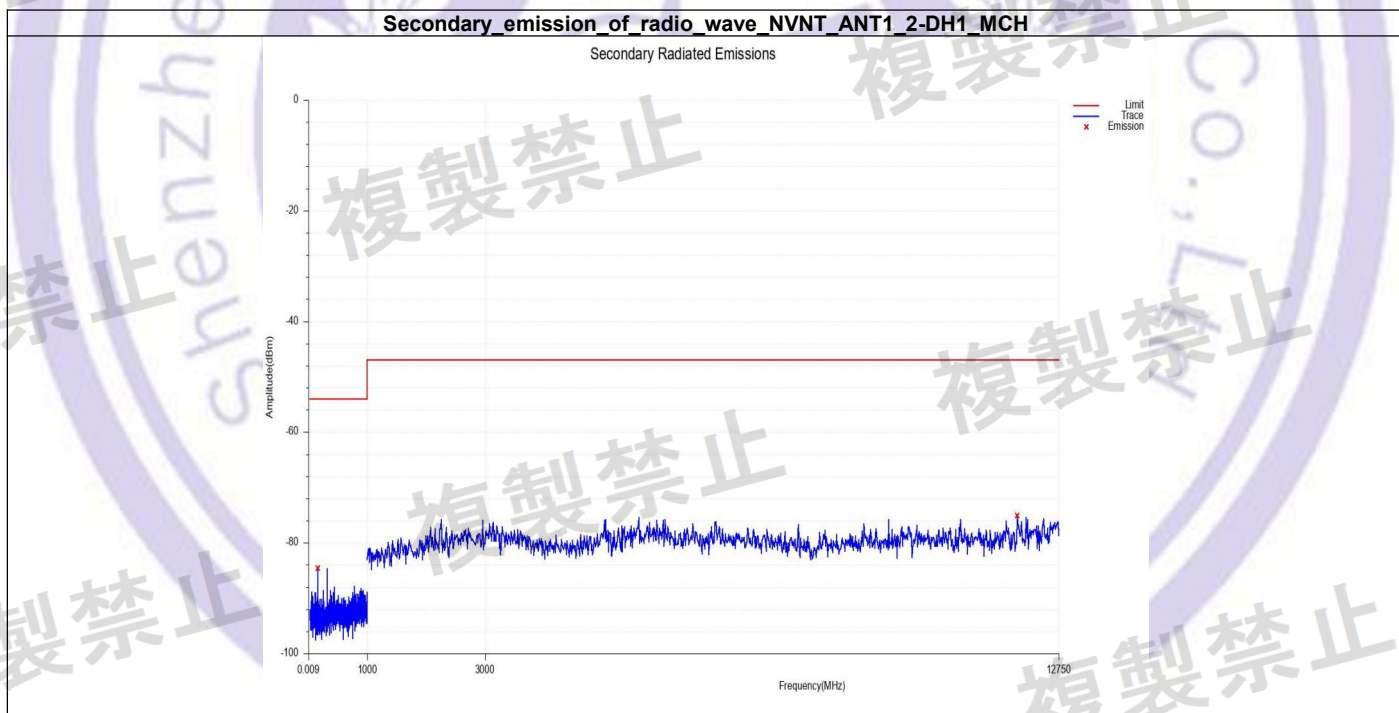
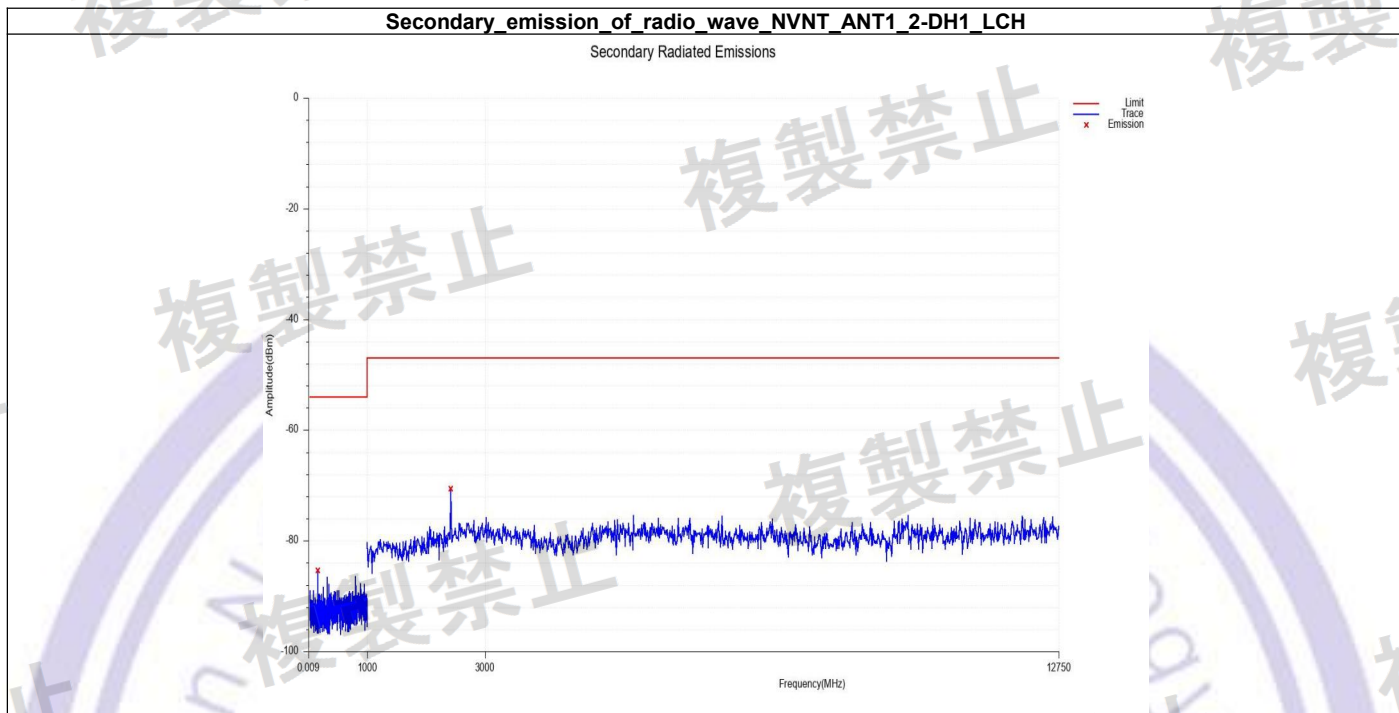
Mode	Channel	Range(MHz)	RBW(kHz)	Spur. Freq.(MHz)	Spur. Lev.(dBm)	Spur. Lev	Limit	Over 1/10 Limit	Read Lev.(dBm)	Read Lev.	Result
1-DH1	LCH	30.0~1000.0	100	159.98	-83.22	0.0047nW	4nW	NO	/	/	Pass
1-DH1	LCH	1000.0~12750.0	1000	12468.00	-74.45	0.0358nW	20nW	NO	/	/	Pass
1-DH1	MCH	30.0~1000.0	100	159.98	-84.76	0.0033nW	4nW	NO	/	/	Pass
1-DH1	MCH	1000.0~12750.0	1000	12338.75	-74.82	0.0329nW	20nW	NO	/	/	Pass
1-DH1	HCH	30.0~1000.0	100	159.98	-85.98	0.0025nW	4nW	NO	/	/	Pass
1-DH1	HCH	1000.0~12750.0	1000	5958.50	-74.42	0.0361nW	20nW	NO	/	/	Pass
2-DH1	LCH	30.0~1000.0	100	159.98	-85.38	0.0028nW	4nW	NO	/	/	Pass
2-DH1	LCH	1000.0~12750.0	1000	2421.75	-70.61	0.0868nW	20nW	NO	/	/	Pass
2-DH1	MCH	30.0~1000.0	100	159.98	-84.53	0.0035nW	4nW	NO	/	/	Pass
2-DH1	MCH	1000.0~12750.0	1000	12045.00	-75.05	0.0312nW	20nW	NO	/	/	Pass
2-DH1	HCH	30.0~1000.0	100	159.98	-83.62	0.0043nW	4nW	NO	/	/	Pass
2-DH1	HCH	1000.0~12750.0	1000	5559.00	-75.31	0.0294nW	20nW	NO	/	/	Pass
3-DH1	LCH	30.0~1000.0	100	159.98	-83.46	0.0045nW	4nW	NO	/	/	Pass
3-DH1	LCH	1000.0~12750.0	1000	5770.50	-73.81	0.0415nW	20nW	NO	/	/	Pass
3-DH1	MCH	30.0~1000.0	100	159.98	-83.27	0.0047nW	4nW	NO	/	/	Pass
3-DH1	MCH	1000.0~12750.0	1000	12667.75	-73.92	0.0405nW	20nW	NO	/	/	Pass
3-DH1	HCH	30.0~1000.0	100	159.98	-84.52	0.0035nW	4nW	NO	/	/	Pass
3-DH1	HCH	1000.0~12750.0	1000	6040.75	-75.28	0.0296nW	20nW	NO	/	/	Pass

Secondary emission of radio wave_NVNT_ANT1_1-DH1_LCH

Secondary Radiated Emissions

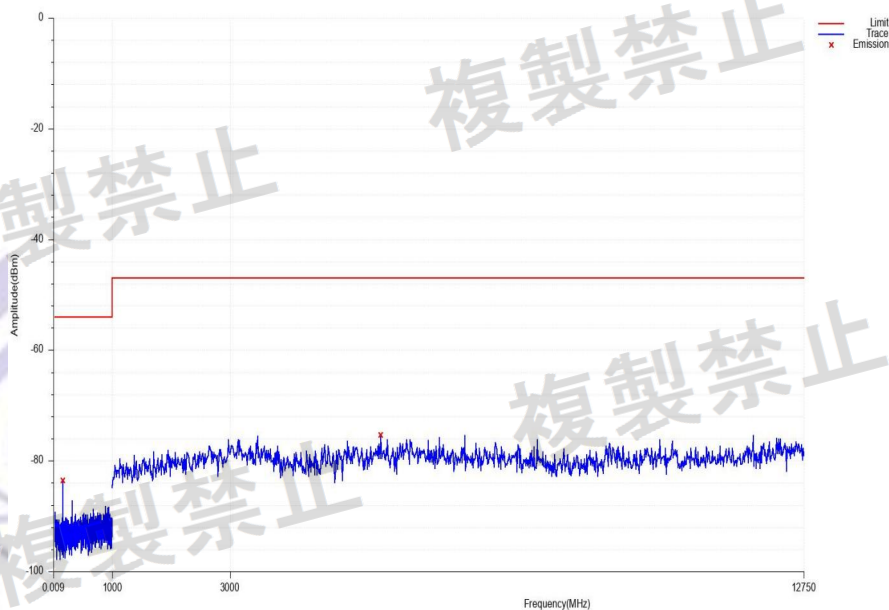






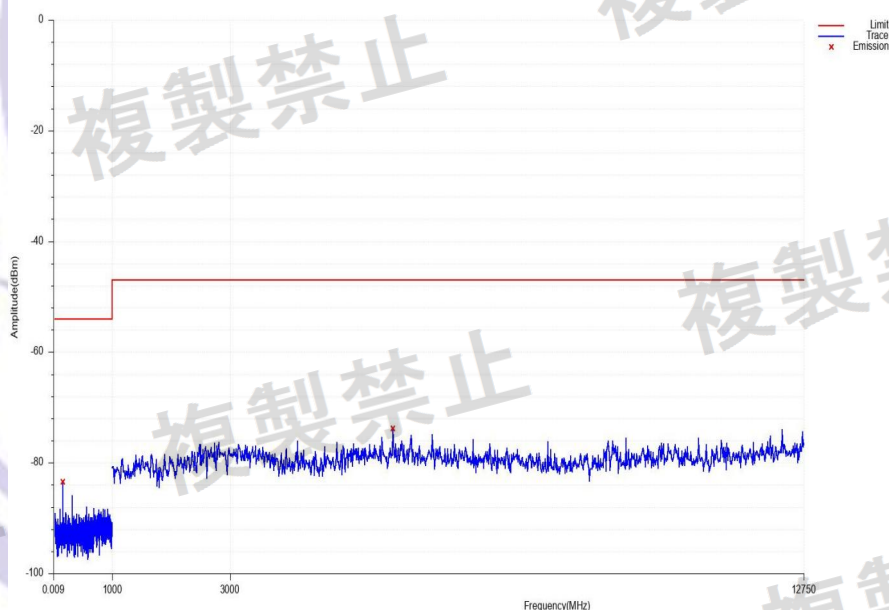
Secondary emission of radio wave_NVNT_ANT1_2-DH1_HCH

Secondary Radiated Emissions



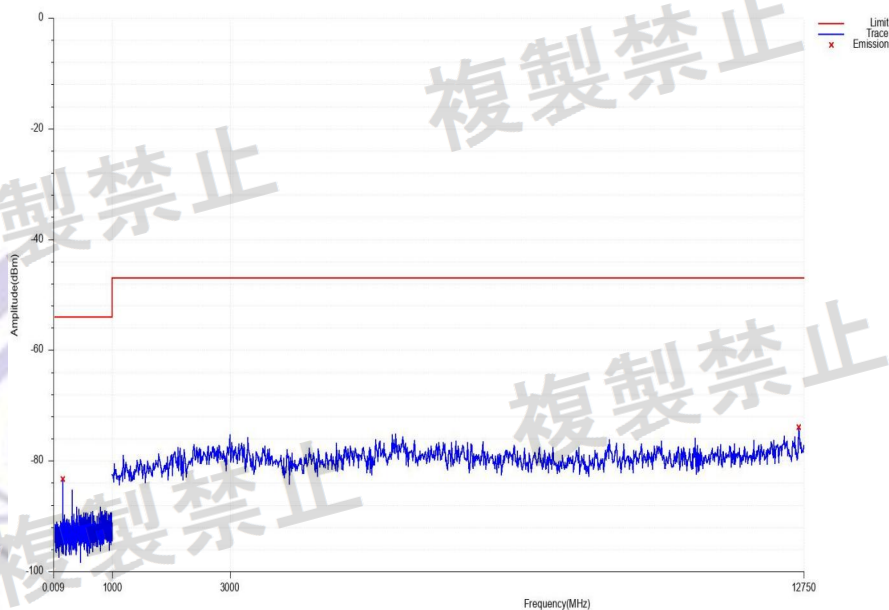
Secondary emission of radio wave_NVNT_ANT1_3-DH1_LCH

Secondary Radiated Emissions



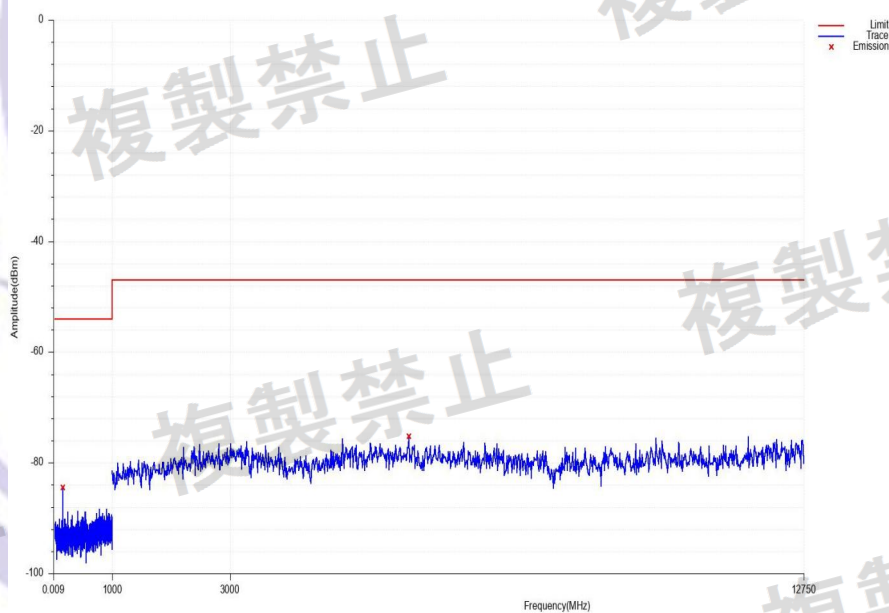
Secondary emission of radio wave_NVNT_ANT1_3-DH1_MCH

Secondary Radiated Emissions



Secondary emission of radio wave_NVNT_ANT1_3-DH1_HCH

Secondary Radiated Emissions



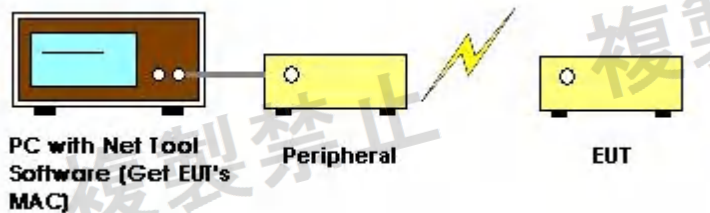
11. SPREADING FACTOR

According to Radio Law Radio Equipment Regulations Article 6, Attached Table No.2, the Occupied Bandwidth must be 83.5 MHz or below. According to Article 49-20, No limit in Item 19 standard.

Modulation	mode	Spread Bandwidth(MHz)	Rate(Mbps)	Spread Factor
GFSK	Hopping	71.28	1	71.28
GFSK	Hopping	71.28	1	71.28
GFSK	Hopping	71.21	1	71.21
π /4-DQPSK	Hopping	71.33	1	71.33
π /4-DQPSK	Hopping	71.38	1	71.38
π /4-DQPSK	Hopping	71.39	1	71.39
8DPS	Hopping	71.34	1	71.34
8DPS	Hopping	71.20	1	71.20
8DPSK	Hopping	71.36	1	71.36

12. INTERFERENCE PREVENTION FUNCTION

12.1. TEST SETUP



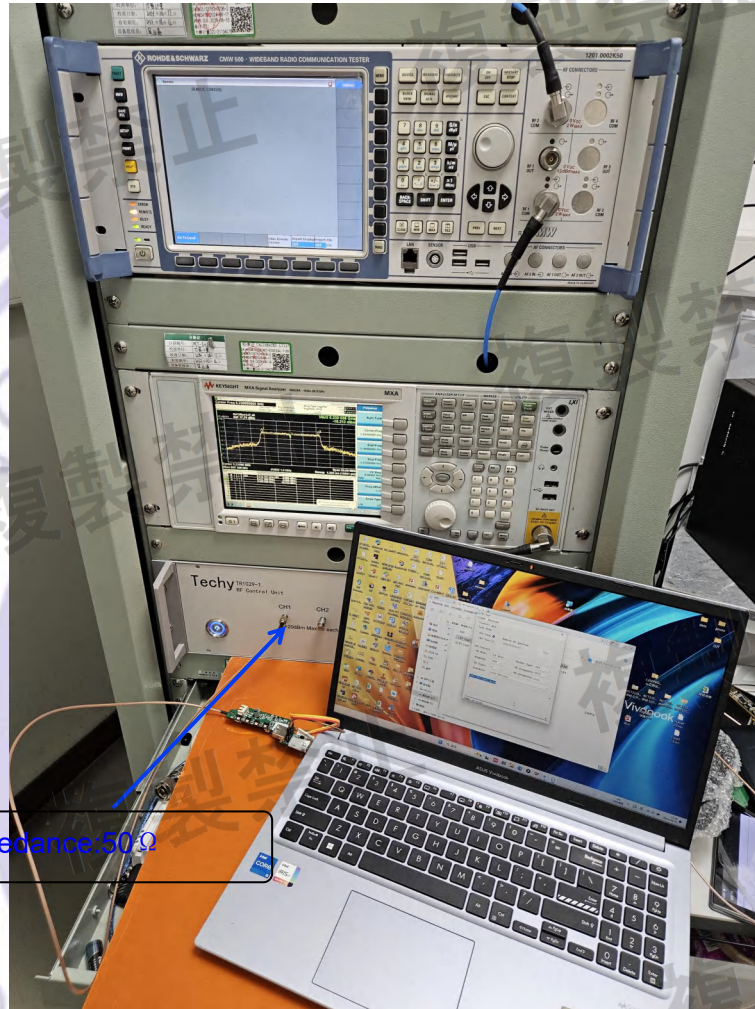
12.2. RADIO INTERFERENCE PREVENTION FUNCTION

	Normal voltage	High voltage	Low voltage
Result	OK	OK	OK

MAC:3a:2b:5c:6d:12:e3
Result: Pass

13. EUT TEST PHOTO

Measurement Photos



14. EUT CONSTRUCTIONAL DETAILS

Please see EUT Photo for details.

the end of report