

TEST REPORT

Applicant Name..... : Artec Co., Ltd.
Address..... : 3-2-21 KITAKAMEI-CHO,YAO-SHI, OSAKA, 581-0066, JAPAN
Manufacturer Name..... : Artec Co., Ltd.
Address..... : 3-2-21 KITAKAMEI-CHO,YAO-SHI, OSAKA, 581-0066, JAPAN
Product..... : AT smart tag coin-style
Model(s)..... : 91454
Additional Model(s)..... : 91495
Trademark..... : /
Model Difference..... : 91454 is tested model, other models are derivative models .The models are identical in circuit, only different on the model names and colors. So the test data of 91454 can represent the remaining models.
Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.
Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt..... : July 2, 2026
Date of Test(s)..... : July 2, 2026 to Aug. 7, 2026
Date of Issue..... : Aug. 7, 2026
Test Requested..... : Select test(s) as requested by the client.
Test Standard(s)..... : Article 2 paragraph 1 of item 19
MIC Notice No.88 Annex 1
MIC Notice No.88 Annex 43
Test procedure..... : /

In the configuration tested, the EUT complied with the standards specified above.

Prepared by

Reviewed by:

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Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Test method which is equal to Appendix No.43 of MIC Notification No 88.

MIC Notice No.88 Appendix No.43			
Rule	NO.	Test Item	Result
Article 2 paragraph 1 of item 19	1	RF shielding method	Pass
	2	Frequency Error	Pass
	3	Antenna Power	Pass
	4	99% Occupied bandwidth	Pass
	5	Spread spectrum bandwidth	Just for report
	6	Spurious Emissions Intensity	Pass
	7	Limit of secondary radiated emissions	Pass
	8	Interference suppression	Pass
	9	Transmission Antenna Gain	N/A ³
	10	Transmission Radiation Angle Width(3dB Beam width)	N/A ¹
	11	CARRIER SENSE CAPABILITY	N/A ² , N/A ³

NOTE:

(1)" N/A¹" EIRP does not exceed 12.14dBm

(2)" N/A²" Only need to test the OFDM system with a bandwidth greater than 26MHz

(3)" N/A³"EIRP is less than (2.14dBi +antenna power limit), the shortage can be compensated for by the antenna power.



2. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	AT smart tag coin-style
Test Model No.:	91454
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Rated power:	6mW
Antenna Specification:	PCB Antenna
Antenna Gain:	0.81dBi
Power supply:	DC 3 V powered by CR2032 battery
Sample Number:	260702141YP001
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	



Note:

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

Channel List							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

3. Final test channel as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	20	2440	40	2480



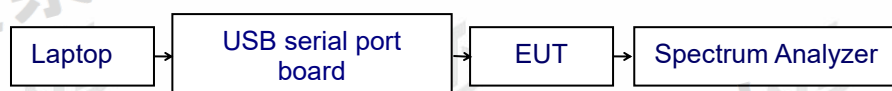
3.2 DESCRIPTION OF TEST MODES

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.		
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. test software <i>BT test tool</i> used for controlling the EUT. 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 DTS		
	Test Software: Direct Test Mode v2.5.3	
	Test Mode	Power Level
	GFSK	Default

3.3 TEST CONDITIONS

Supply Voltage			
	Input Voltage (Vdc)	Voltage at the input of the RF Circuit (Vdc)	Tolerance (%)
Normal	3	3.3	
+10%	3.3	3.3	0
-10%	2.7	3.3	0
Others			
Temperature (°C)		23.6	
Relative humidity		54.2 %	
ATM Pressure:		1014 mbar	
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%.So the following test items are conducted in the normal voltage.			

3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





3.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo (Beijing) Co., Ltd	ThinkPad E480	/	AE
E-2	USB serial port board	/	/	/	AE
E-3	Regulated DC power supply	GUANHUA	PAB-3005D	/	AE

Item	Shielded Type	Ferrite Core	Length	Note

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”.
- (4) The test software is the Direct Test Mode v2.5.3 which can set the EUT into the individual test modes.



3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.

Add.: Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

China Registered No.: L15216

3.2 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	Apr. 24, 2026	Apr. 23, 2027
2	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	Apr. 24, 2026	Apr. 23, 2027
3	Single Generator	Agilent	N5182A	MY48180575	Apr. 24, 2026	Apr. 23, 2027
4	Power Sensor	MWRFTest	MW100-RFCB	/	Apr. 24, 2026	Apr. 23, 2027
5	Single Generator	R&S	SMB100A	259098	Apr. 15, 2026	Apr. 14, 2027
6	Attenuator	HTEC	-10dB	/	Apr. 24, 2026	Apr. 23, 2027

Measuring Equipment Calibration Information		
Used	Calibration Company Abbreviation	Full Name of calibration company
☒	/	GUANGZHOU LISAI METROLOGY & TEST CO.,LTD.
☒	/	/
Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)		
☐	a) Calibration Conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.	
☐	b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.	
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.	
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.	

3.3 Testing software

Project	Software name	Edition
RF Conducted	MTS 8310	2.0.0.0



3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	Conducted Emission Test	0.92dB
2	RF power conducted	0.16dB
3	Spurious emissions conducted	0.21dB
4	All radiated emissions (9k-30MHz)	4.68dB
5	All radiated emissions (30-1GHz)	5.1dB
6	All radiated emissions (1-6GHz)	3.9dB
7	All radiated emissions (6GHz-18GHz)	4.3dB
8	All radiated emissions (18-40GHz)	4.65dB
9	Temperature	0.5°C
10	Humidity	2%
11	frequency error ppm	0.5ppm
12	Occupied Bandwidth	4.96dB

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

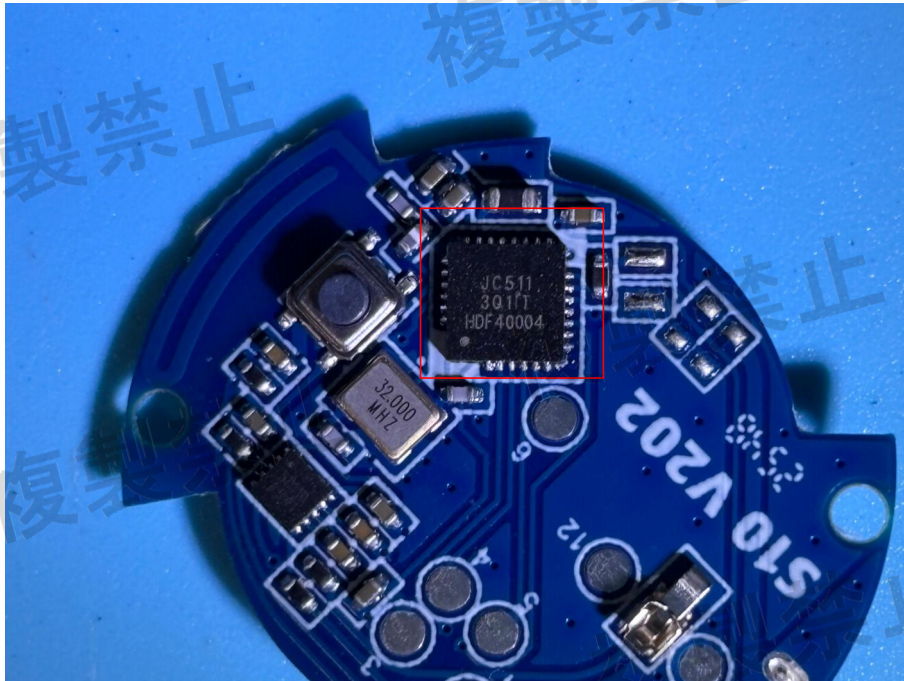


4. RF PROTECTION MEASURES

All RF control circuits are integrated in the IC, which is a QFN package. The spacing between pins is less than 1mm.

Note:-Number of pins:28>10

-Spacing between pins:0.2mm<1mm





5. TEST RESULT FOR BLUETOOTH

5.1 FREQUENCY ERROR

5.1.1 LIMIT

Item	Limits
Frequency Error	±50ppm

5.1.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

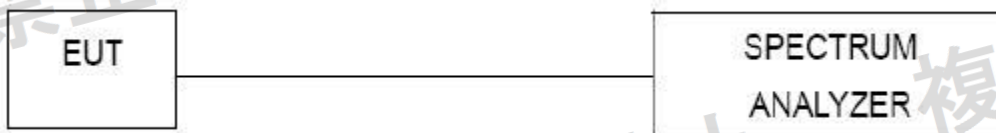
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.3 TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a spectrum analyzer.
- (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.

5.1.4 TEST SETUP LAYOUT



5.1.5 EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

5.1.6 TEST RESULT

Please refer to APPENDIX A



5.2 ANTENNA POWER

5.2.1 LIMIT

Item	Limits
Antenna Power Density	$\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

5.2.2 TEST SETUP LAYOUT



5.2.3 TEST DEVIATION

There is no deviation with the original standard.

5.2.4 TEST PROCEDURE

The EUT was directly connected to the Power meter.

Antenna Power (dBm/MHz): It is measured directly by power meter, calculated and read out by software.

5.2.5 TEST RESULT

Please refer to APPENDIX A



5.3 OCCUPIED BANDWITH

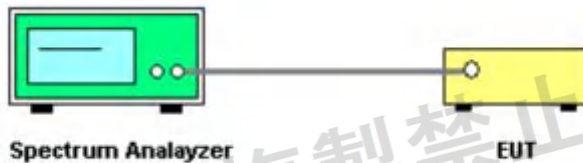
5.3.1 LIMIT

Item	Limits
Occupied Band Width:	$\leq 26\text{MHz}$
Spreading Bandwidth:	/

5.3.2 TEST PROCEDURES

1. Setting of SA is following as: RB: 300kHz / VB:300kHz / SPAN: 3MHz / AT: 30dB Ref: 21.41dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. 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).
3. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
4. Spread Spectrum Factor limit is greater than 5

5.3.3 TEST SETUP LAYOUT



5.3.4 TEST DEVIATION

There is no deviation with the original standard.

5.3.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.3.6 TEST RESULT

Please refer to APPENDIX A



5.4 UNWANTED EMISSION INTENSITY MEASUREMENT

5.4.1 LIMIT

Item	Limits	
TX Spurious Emission	Below 1000 MHz: 2.5μW/MHz or less 1000 to 2387 MHz: 2.5μW/MHz or less 2387 to 2400 MHz: 25μW/MHz or less 2483.5 to 2496.5 MHz: 25μW/MHz or less Over 2496.5 MHz: 2.5μW/MHz or less	Below 1000 MHz: -26dBm/MHz or less 1000 to 2387 MHz: -26dBm/MHz or less 2387 to 2400 MHz: -16dBm/MHz or less 2483.5 to 2496.5 MHz: -16dBm/MHz or less Over 2496.5 MHz: -26dBm/MHz or less

5.4.2 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	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.4.3 TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 20dB Ref: 11.41dBm / 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 0.25μW/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. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 1MHz, Result_Value = Measured_Value
9. 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.



5.4.4 TEST SETUP LAYOUT



5.4.5 TEST DEVIATION

There is no deviation with the original standard.

5.4.6 TEST RESULT

Please refer to APPENDIX A



5.5 IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

5.5.1 LIMIT

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

5.5.2 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	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.5.3 TEST PROCEDURES

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 0dB / Ref: -18.59dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. 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
4. 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
5. 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.

5.5.4 TEST RESULT

Please refer to APPENDIX A



5.6 RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

5.6.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

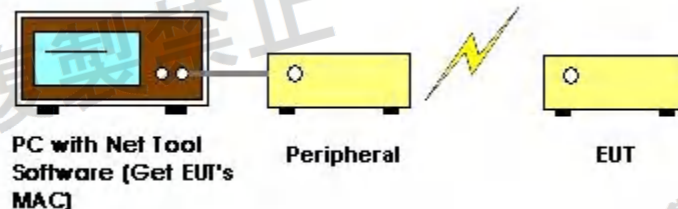
5.6.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

5.6.3 TEST PROCEDURES

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes form EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification ocde: a. Transmit the predetermined identification codes form the counterpart. b . Check if communication is normal. c. Transmit the signals other than predetermined ID codes form the counterpart. d. check if the EUT stops the transmission, or if it displays that idnetification codes are different from the predetermined ones.

5.6.4 TEST SETUP LAYOUT



5.6.5 TEST DEVIATION

There is no deviation with the original standard.

5.6.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

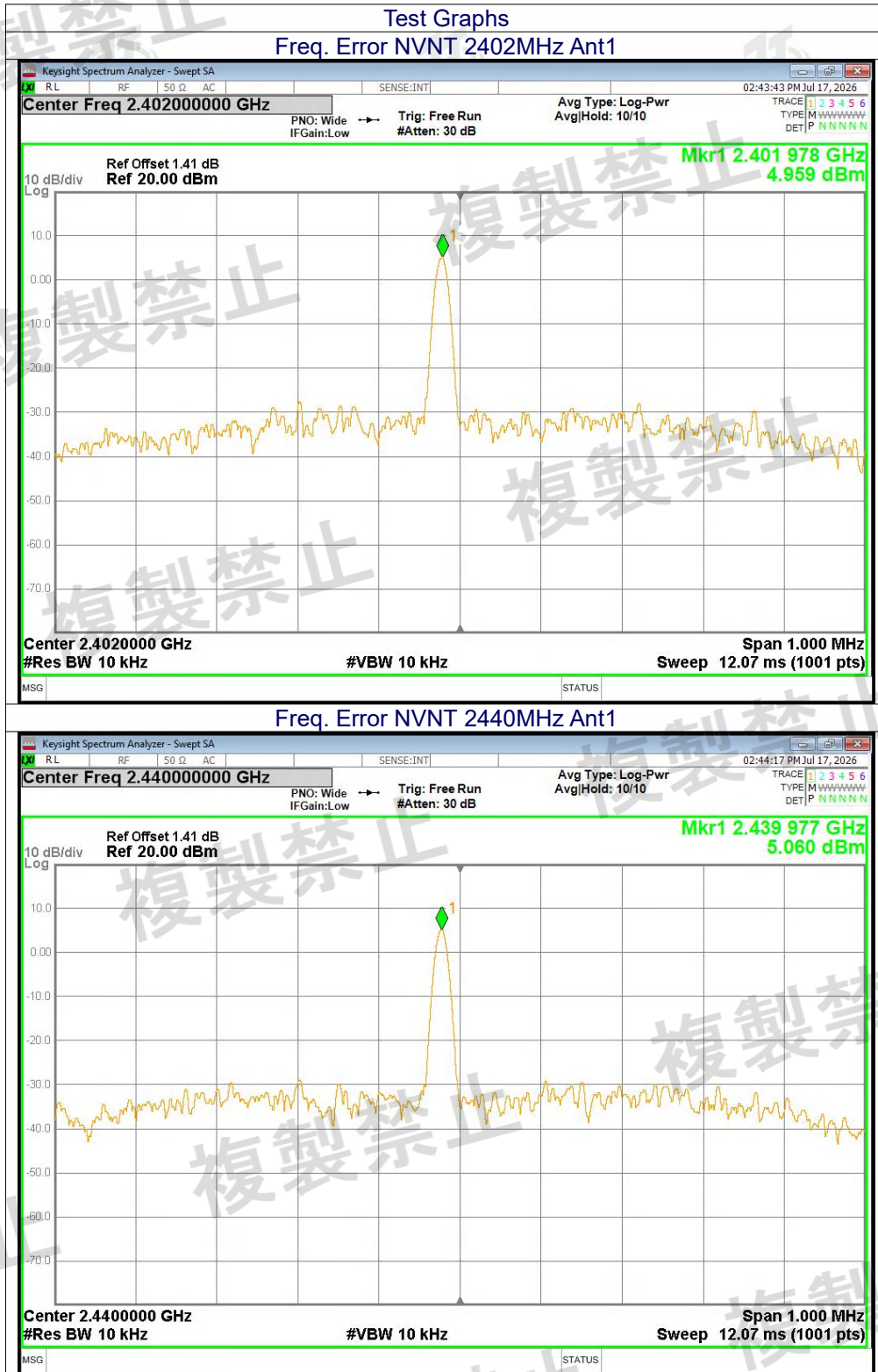
5.6.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILIT

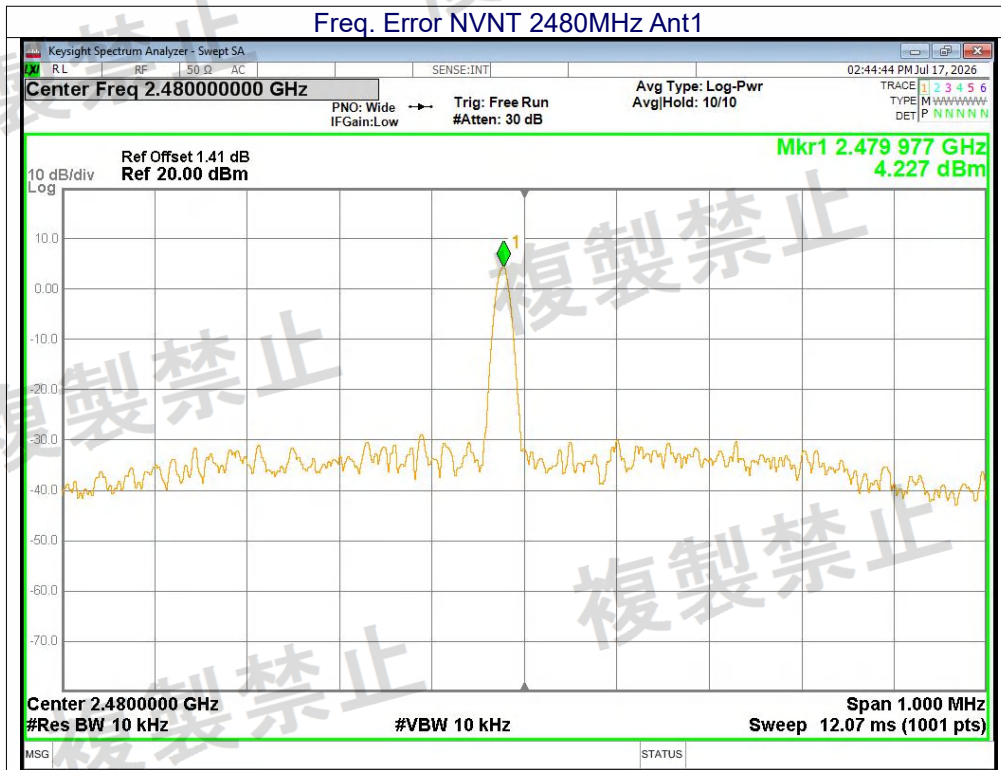
Bluetooth Device Address:A0:78:2D:1A:A2:84

6. APPENDIX A

Frequency Error

Condition	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2402	Ant1	2401.978	-22000	-9.16	50	Pass
NVNT	2440	Ant1	2439.977	-23000	-9.43	50	Pass
NVNT	2480	Ant1	2479.977	-23000	-9.27	50	Pass







Antenna and EIRP Power

Mode	Antenna Power (dBm)	Antenna Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
BLE 1M	6.52	4.49	10	6	-25.17	20	Pass
BLE 1M	6.67	4.65	10	6	-22.50	20	Pass
BLE 1M	5.80	3.8	10	6	-36.67	20	Pass
BLE 2M	5.03	3.18	10	6	-47.00	20	Pass
BLE 2M	5.09	3.23	10	6	-46.17	20	Pass
BLE 2M	4.27	2.67	10	6	-55.50	20	Pass

Tolerance (%)= (Antenna Power-Rated output power) /Rated output power *100%

EIRP Power

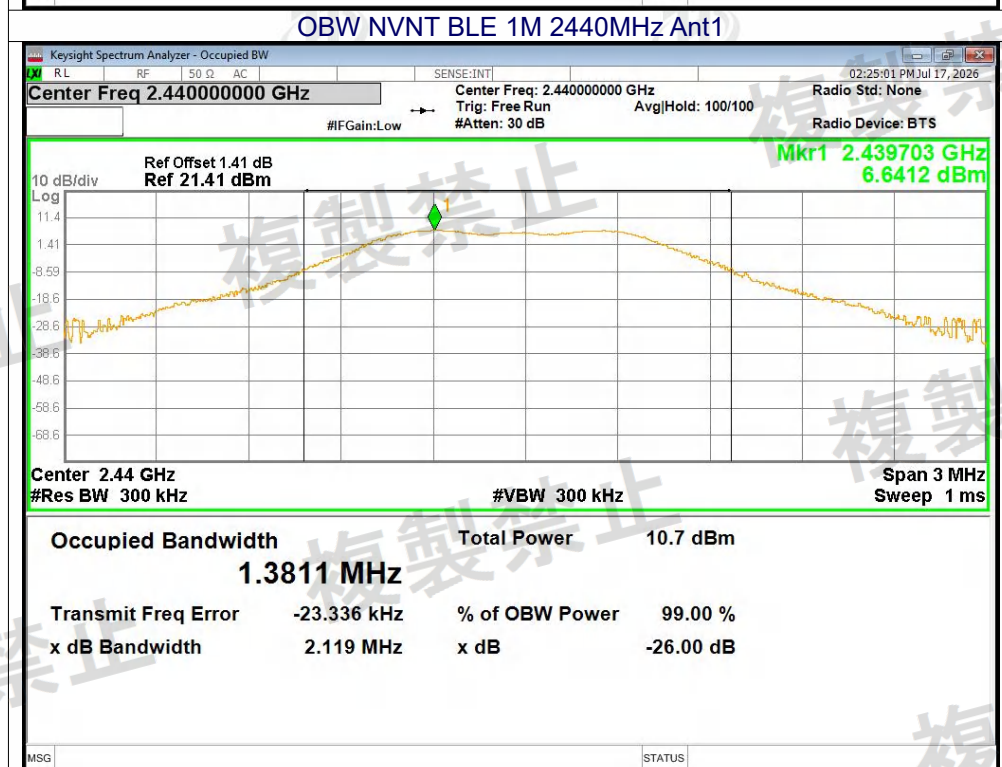
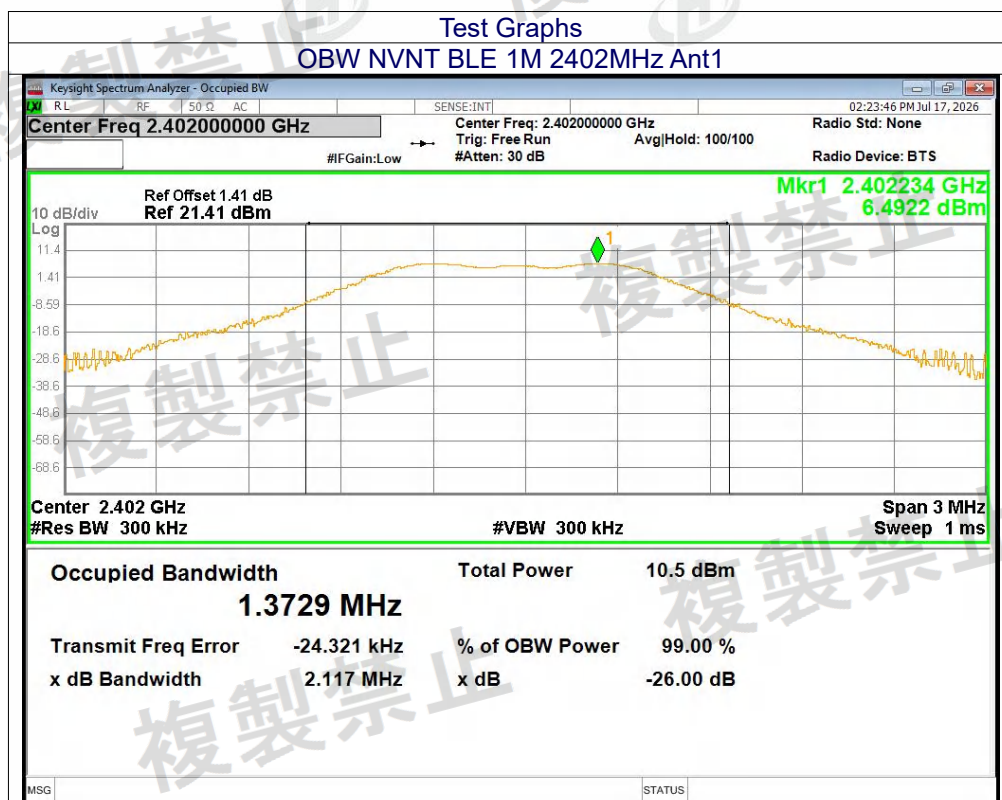
Mode	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
BLE 1M	6.52	0.81	7.33	12.14	Pass
BLE 1M	6.67	0.81	7.48	12.14	Pass
BLE 1M	5.80	0.81	6.61	12.14	Pass
BLE 2M	5.02	0.81	5.83	12.14	Pass
BLE 2M	5.09	0.81	5.90	12.14	Pass
BLE 2M	4.27	0.81	5.08	12.14	Pass

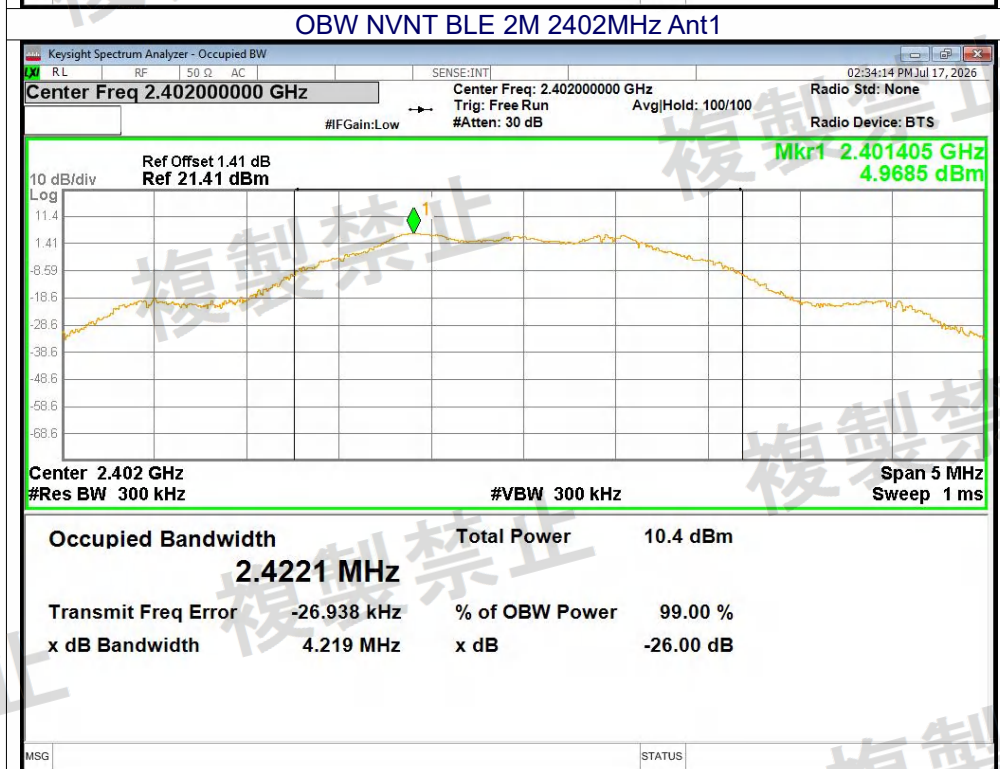
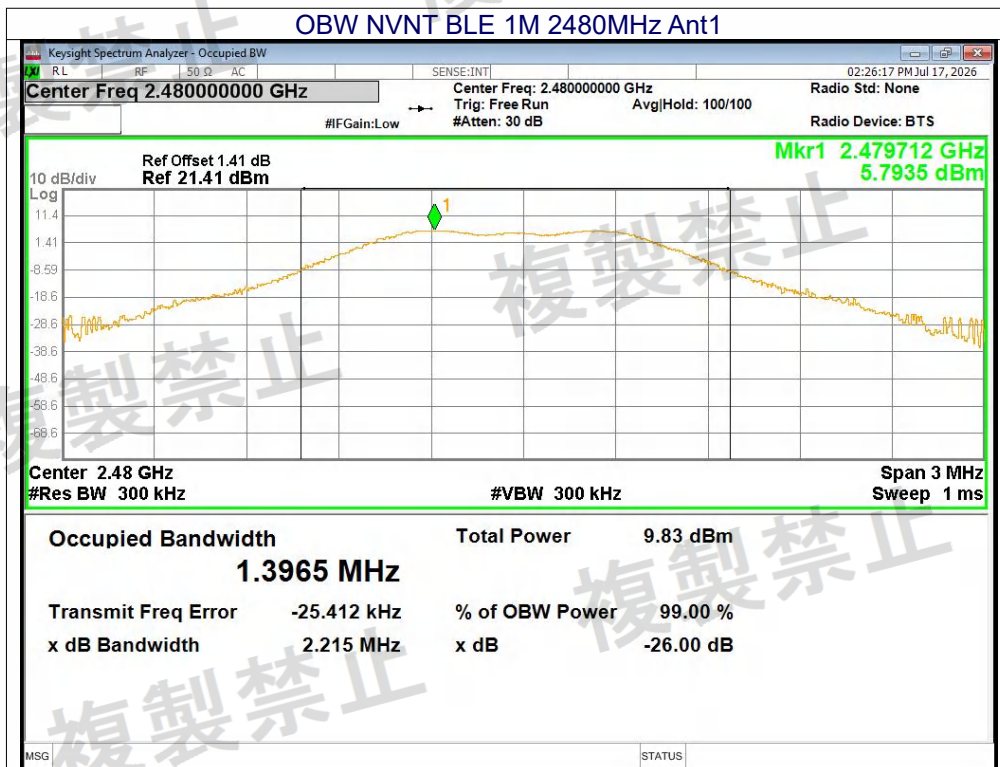
Note: Measured EIRP=Antenna power + Antenna Gain

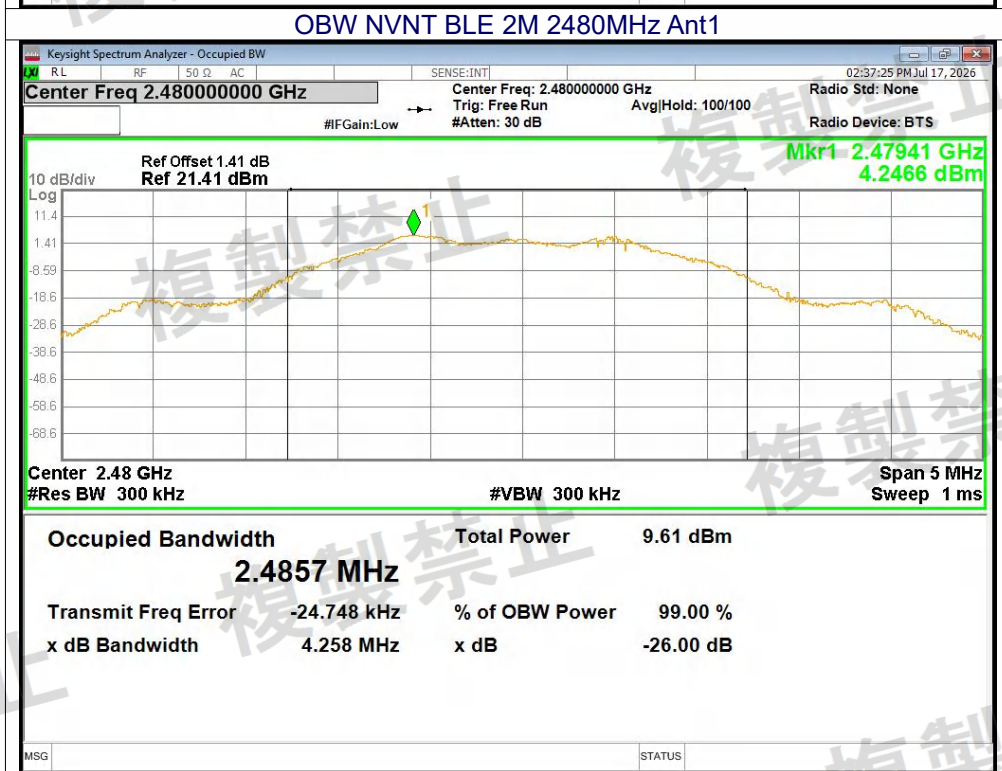
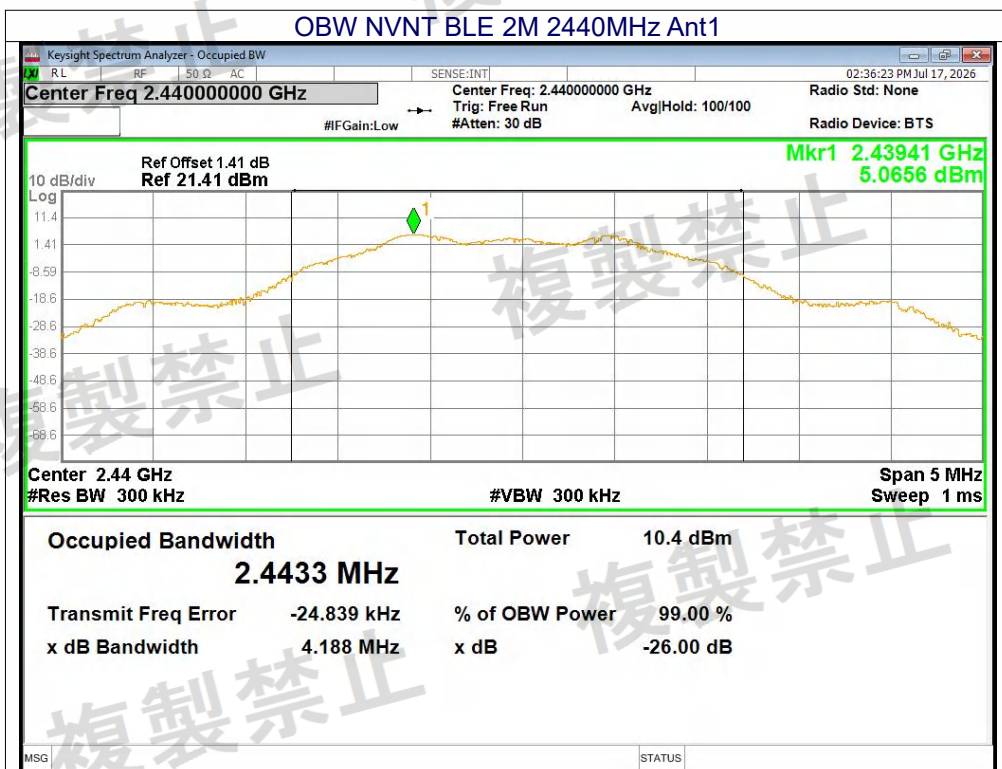


Occupied Channel Bandwidth

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
BLE 1M	2402	Ant1	1.373
BLE 1M	2440	Ant1	1.381
BLE 1M	2480	Ant1	1.397
BLE 2M	2402	Ant1	2.422
BLE 2M	2440	Ant1	2.443
BLE 2M	2480	Ant1	2.486







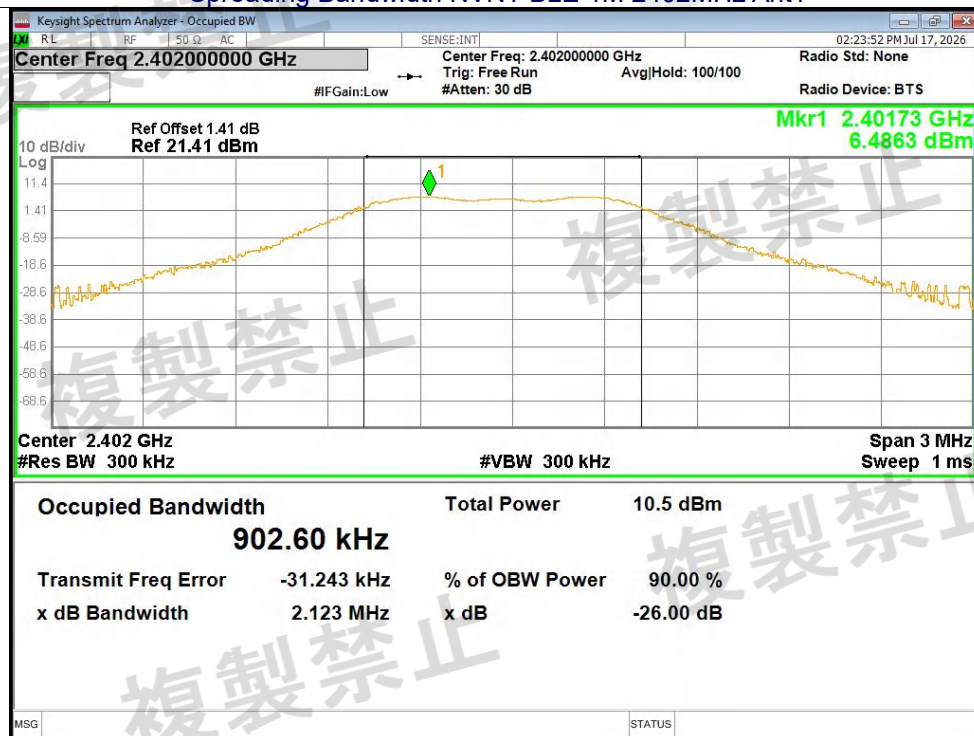


Spreading Bandwidth

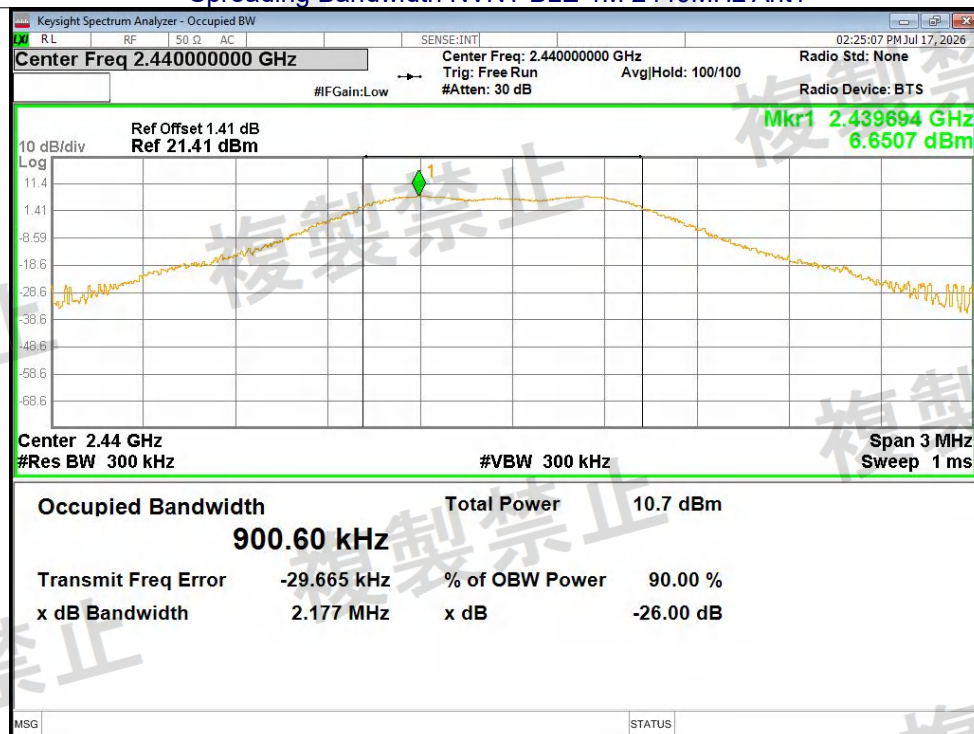
Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Verdict
BLE 1M	2402	Ant1	0.903	Pass
BLE 1M	2440	Ant1	0.901	Pass
BLE 1M	2480	Ant1	0.908	Pass
BLE 2M	2402	Ant1	1.575	Pass
BLE 2M	2440	Ant1	1.62	Pass
BLE 2M	2480	Ant1	1.64	Pass

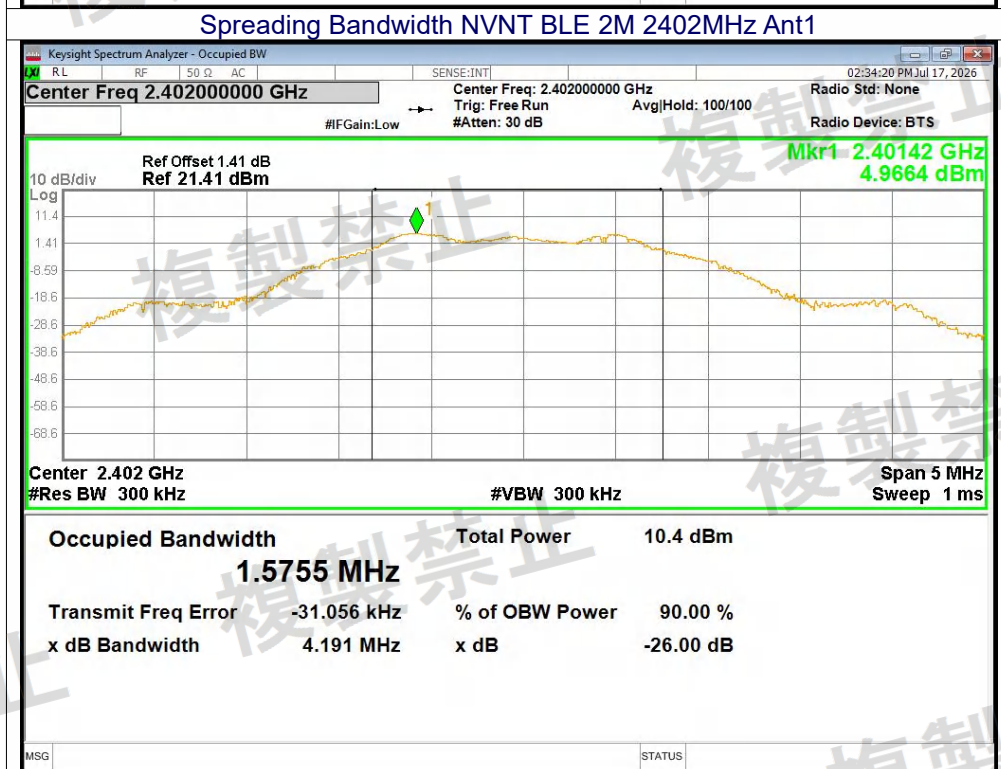
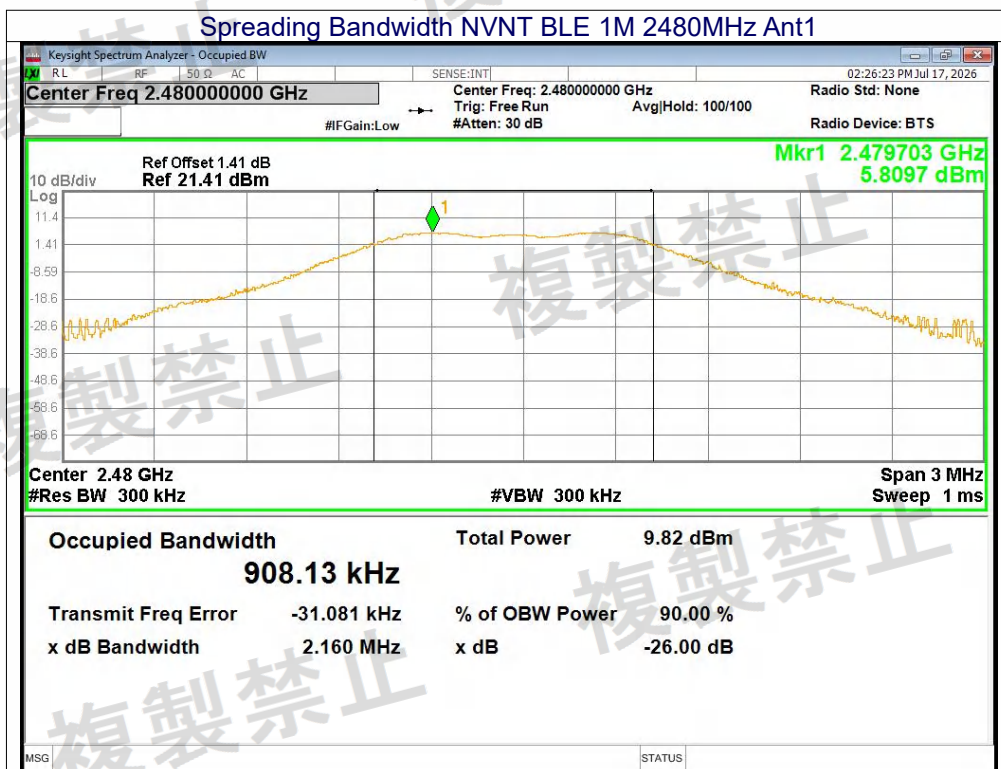
Test Graphs

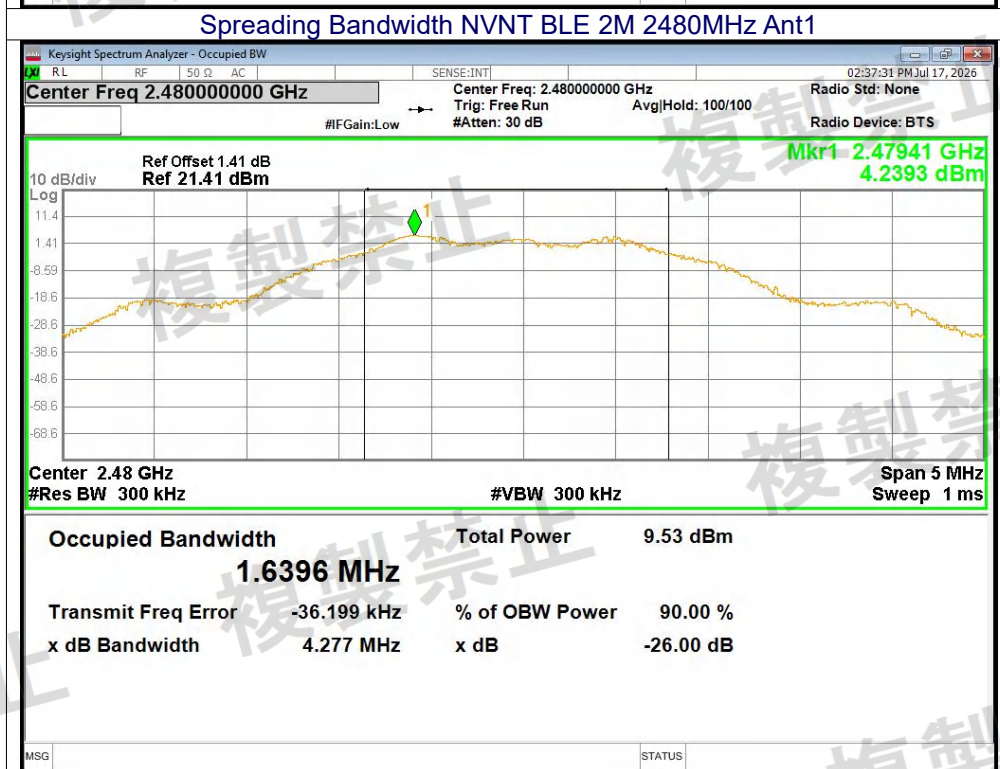
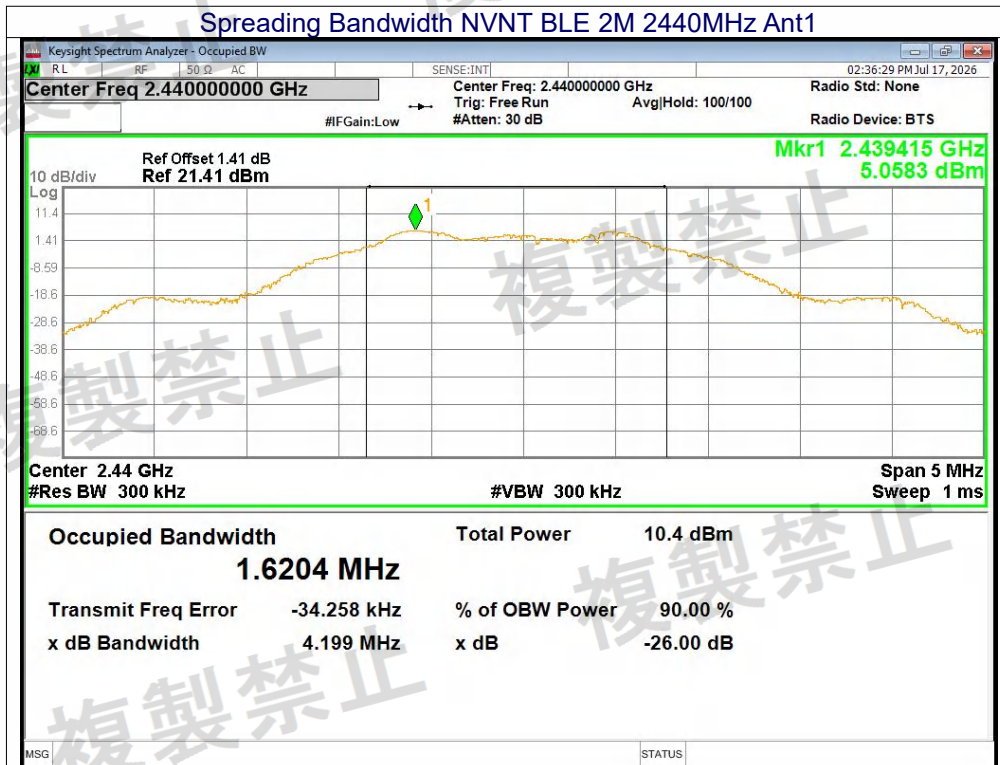
Spreading Bandwidth NVNT BLE 1M 2402MHz Ant1



Spreading Bandwidth NVNT BLE 1M 2440MHz Ant1





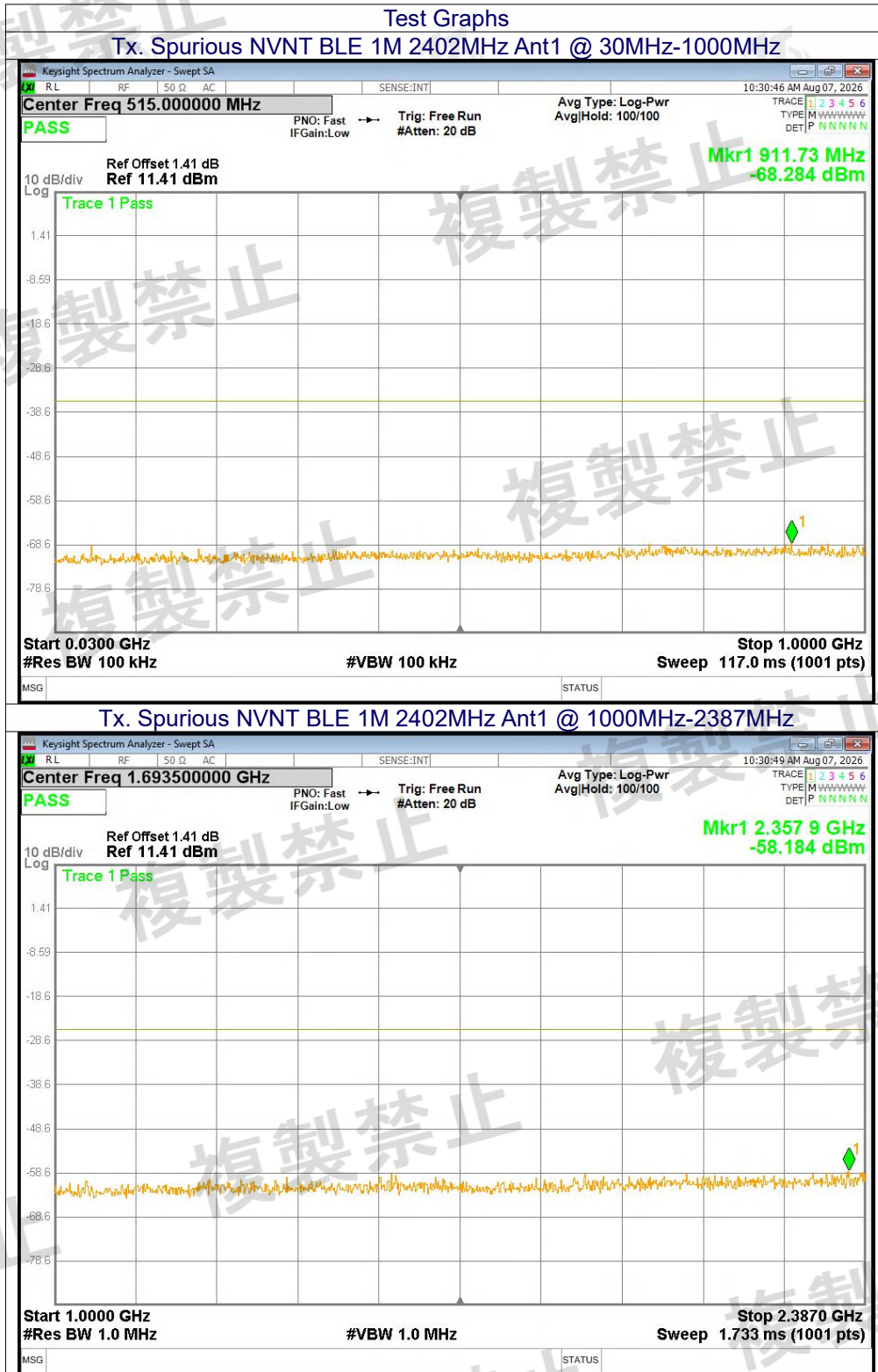


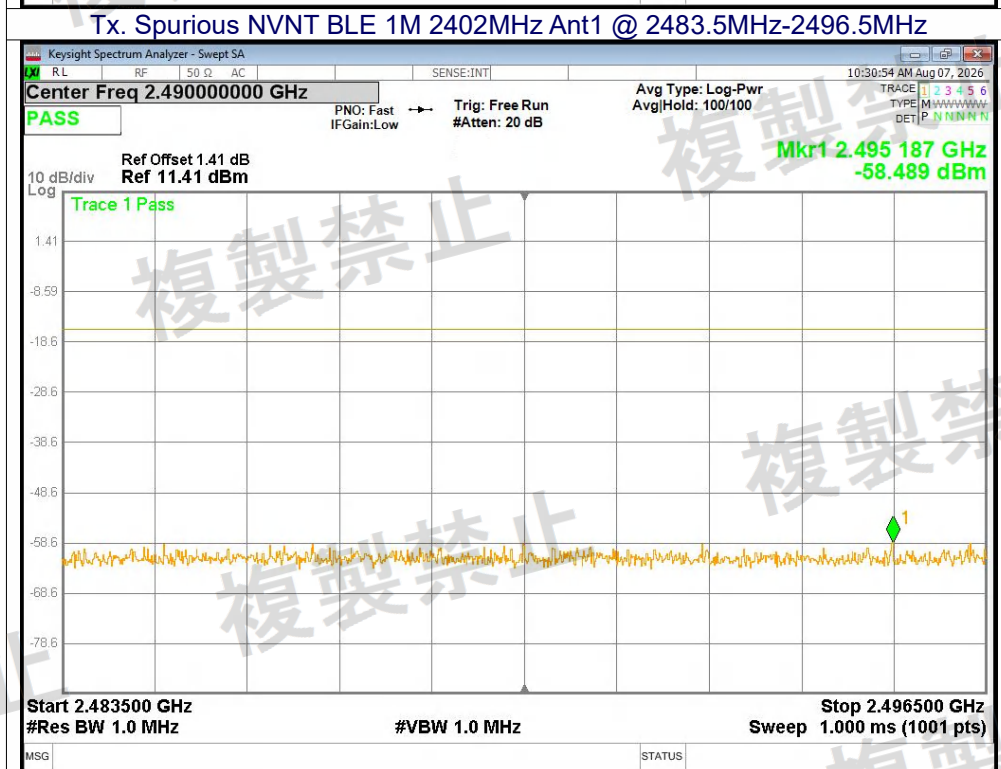
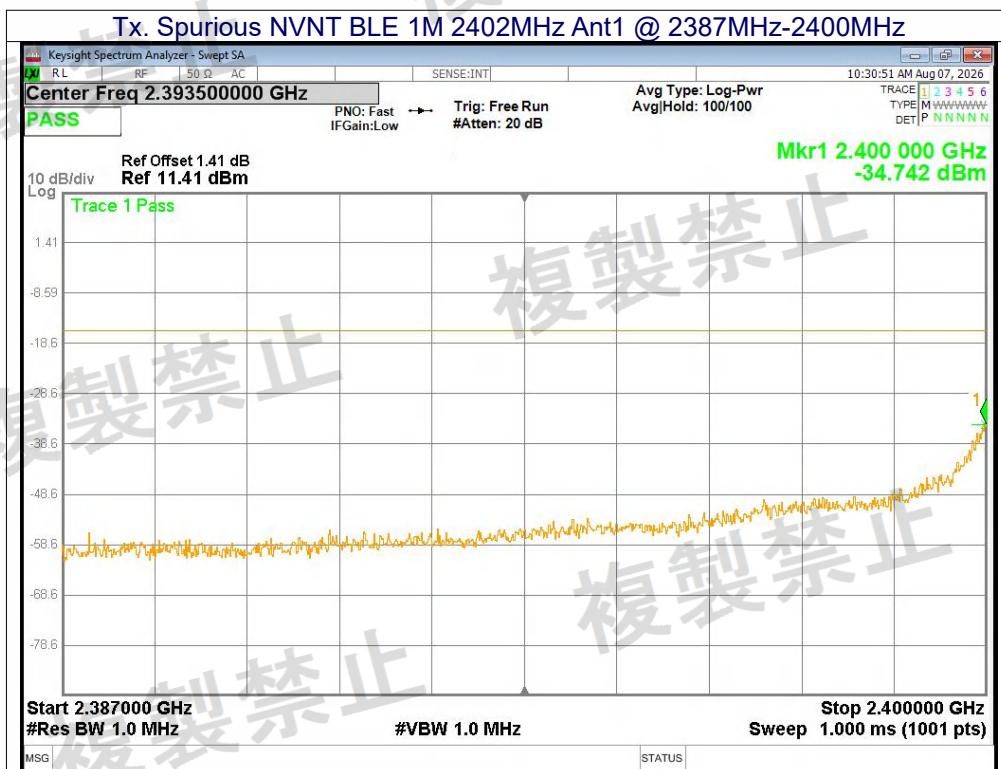


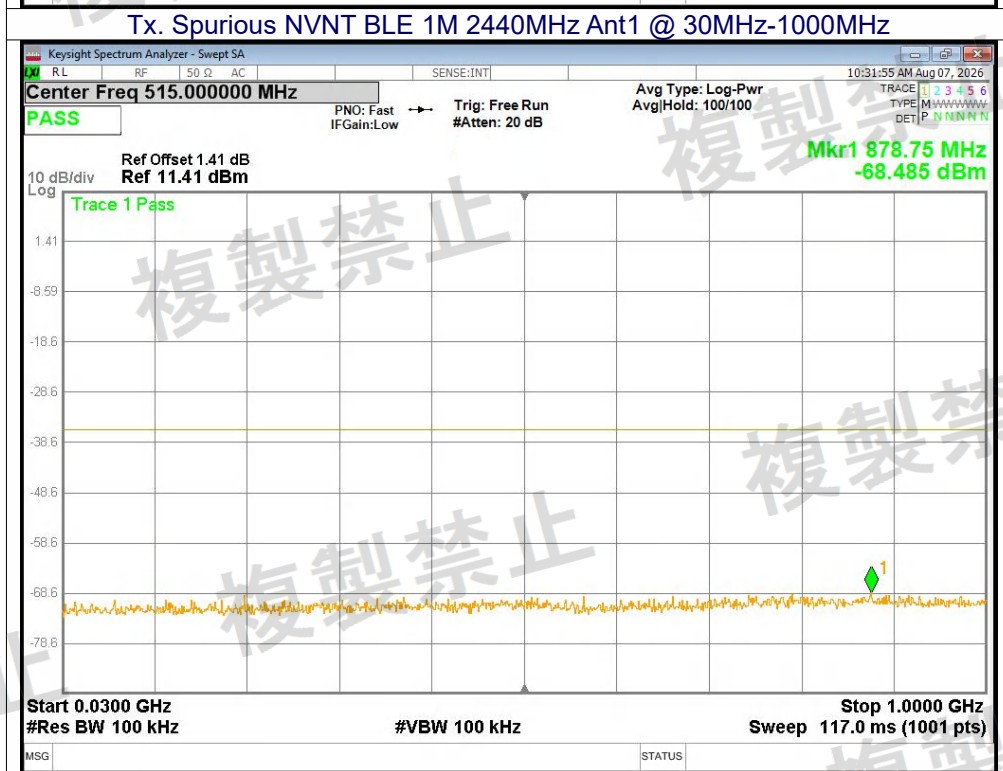
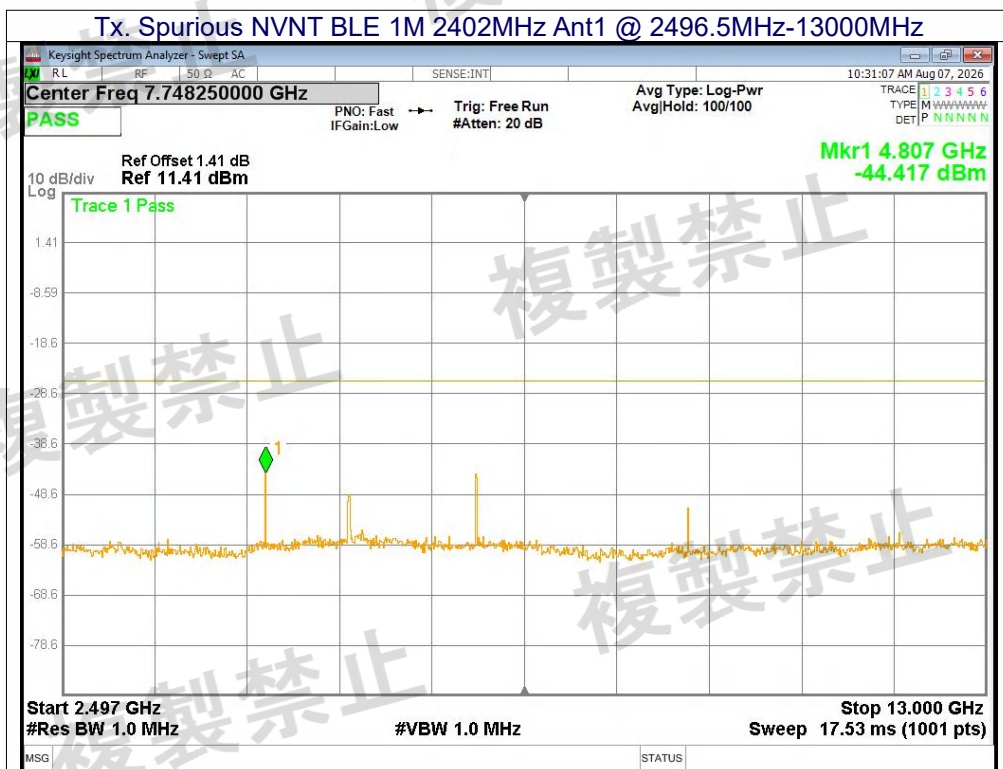
Tx Spurious Emission

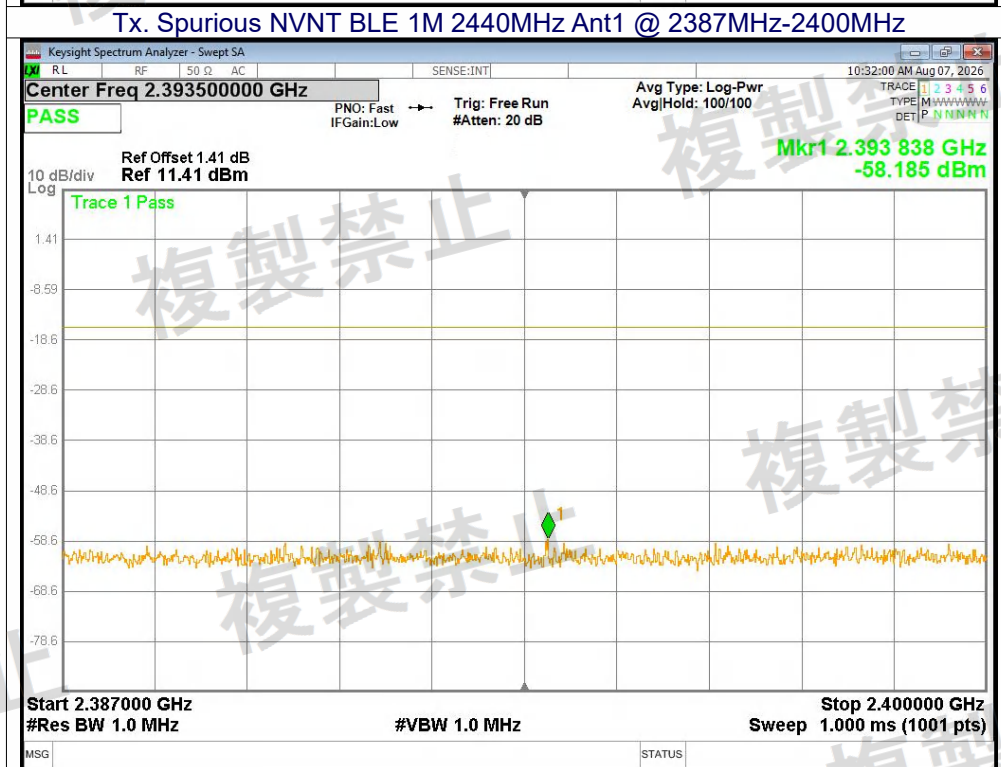
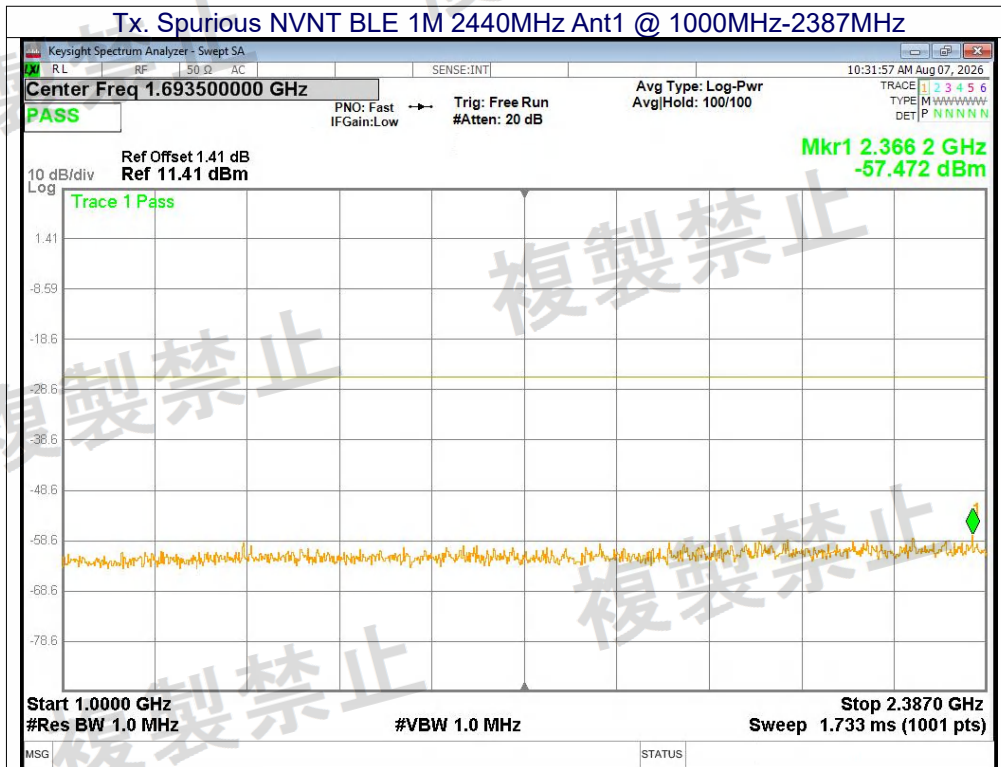
Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Max Value (uW/MHz)	Limit Stop (dBm/MHz)	Limit Stop (uW/MHz)	Verdict
BLE 1M	2402	Ant1	30-1000	911.73	-68.28	0.01	-36	2.5	Pass
BLE 1M	2402	Ant1	1000-2387	2357.87	-58.18	0.01	-26	2.5	Pass
BLE 1M	2402	Ant1	2387-2400	2400	-34.74	0.34	-16	25	Pass
BLE 1M	2402	Ant1	2483.5-2496.5	2495.19	-58.49	0.01	-16	25	Pass
BLE 1M	2402	Ant1	2496.5-13000	4807.27	-44.42	0.04	-26	2.5	Pass
BLE 1M	2440	Ant1	30-1000	878.75	-68.49	0.01	-36	2.5	Pass
BLE 1M	2440	Ant1	1000-2387	2366.19	-57.47	0.01	-26	2.5	Pass
BLE 1M	2440	Ant1	2387-2400	2393.84	-58.19	0.01	-16	25	Pass
BLE 1M	2440	Ant1	2483.5-2496.5	2494.39	-58.34	0.01	-16	25	Pass
BLE 1M	2440	Ant1	2496.5-13000	4880.79	-42.99	0.05	-26	2.5	Pass
BLE 1M	2480	Ant1	30-1000	898.15	-67.32	0.01	-36	2.5	Pass
BLE 1M	2480	Ant1	1000-2387	2328.75	-57.52	0.01	-26	2.5	Pass
BLE 1M	2480	Ant1	2387-2400	2389.2	-58.81	0.01	-16	25	Pass
BLE 1M	2480	Ant1	2483.5-2496.5	2484.55	-49.74	0.01	-16	25	Pass
BLE 1M	2480	Ant1	2496.5-13000	4954.32	-39.31	0.12	-26	2.5	Pass
BLE 2M	2402	Ant1	30-1000	901.06	-68.18	0.01	-36	2.5	Pass
BLE 2M	2402	Ant1	1000-2387	2380.07	-57.45	0.01	-26	2.5	Pass
BLE 2M	2402	Ant1	2387-2400	2400	-20.47	8.97	-16	25	Pass
BLE 2M	2402	Ant1	2483.5-2496.5	2485.83	-57.48	0.01	-16	25	Pass
BLE 2M	2402	Ant1	2496.5-13000	4807.27	-44.19	0.04	-26	2.5	Pass
BLE 2M	2440	Ant1	30-1000	870.02	-68.17	0.01	-36	2.5	Pass
BLE 2M	2440	Ant1	1000-2387	2048.57	-58.31	0.01	-26	2.5	Pass
BLE 2M	2440	Ant1	2387-2400	2392.5	-58.9	0.01	-16	25	Pass
BLE 2M	2440	Ant1	2483.5-2496.5	2484.21	-58.27	0.01	-16	25	Pass
BLE 2M	2440	Ant1	2496.5-13000	4880.79	-42.99	0.05	-26	2.5	Pass
BLE 2M	2480	Ant1	30-1000	756.53	-68.02	0.01	-36	2.5	Pass
BLE 2M	2480	Ant1	1000-2387	2339.84	-58.2	0.01	-26	2.5	Pass
BLE 2M	2480	Ant1	2387-2400	2393.58	-59.17	0.01	-16	25	Pass
BLE 2M	2480	Ant1	2483.5-2496.5	2483.54	-44.93	0.03	-16	25	Pass
BLE 2M	2480	Ant1	2496.5-13000	4964.82	-39.02	0.13	-26	2.5	Pass

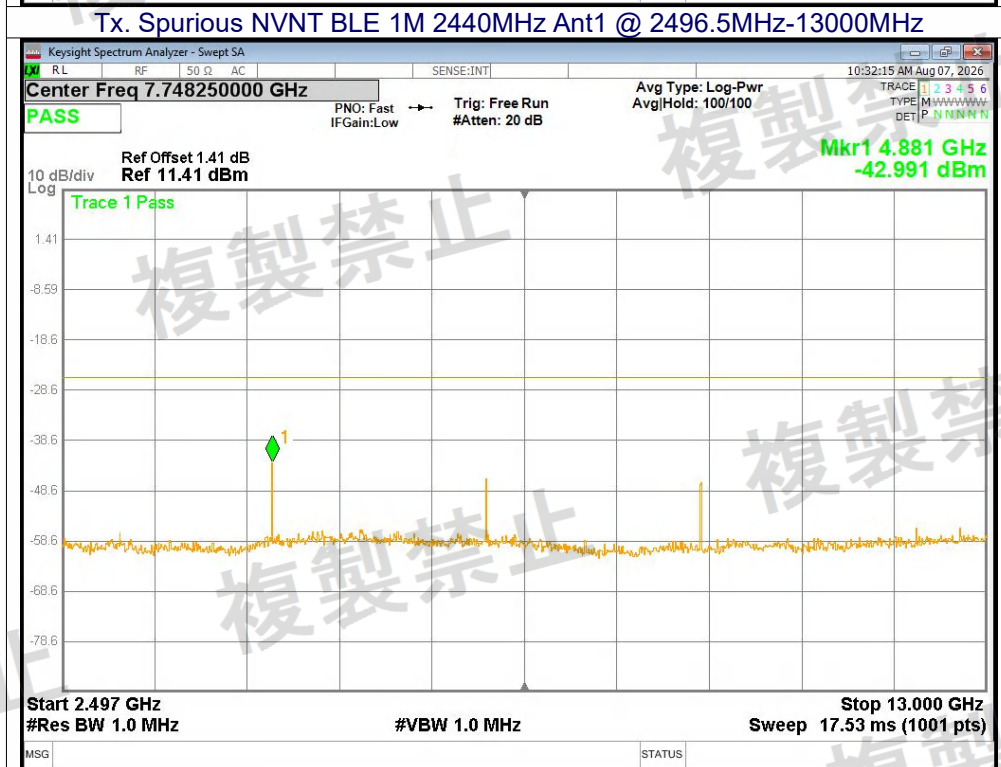
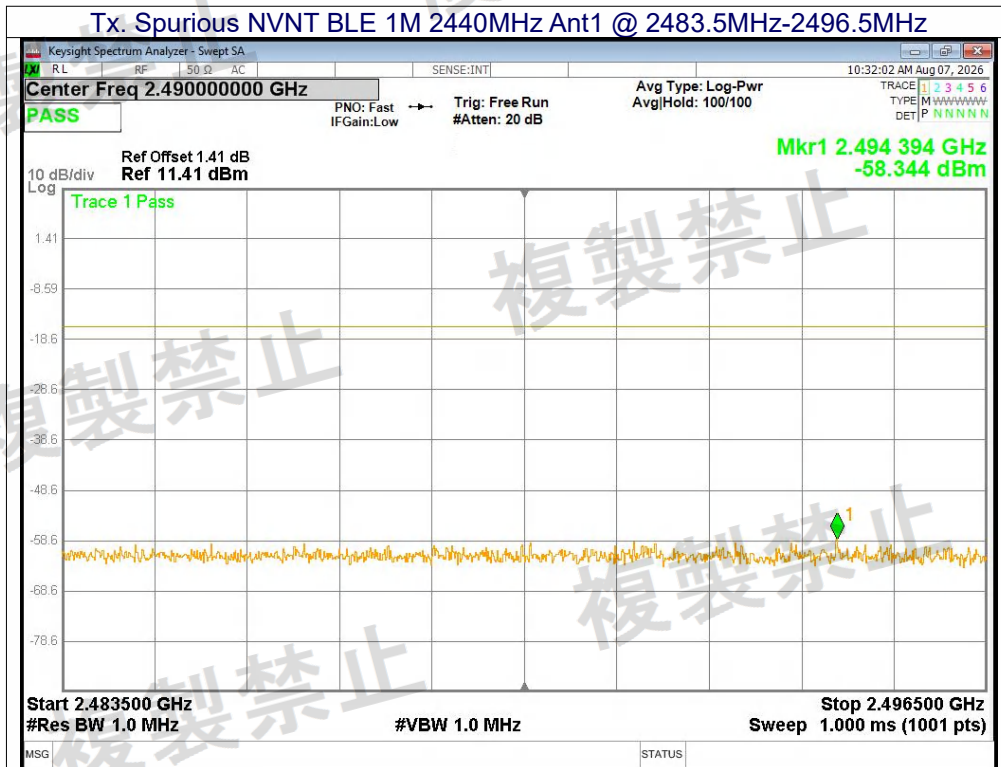
Note: For 30-1000MHz, the final values (dBm/MHz)= test value (dBm/100kHz)+10*log(1000kHz/100kHz)

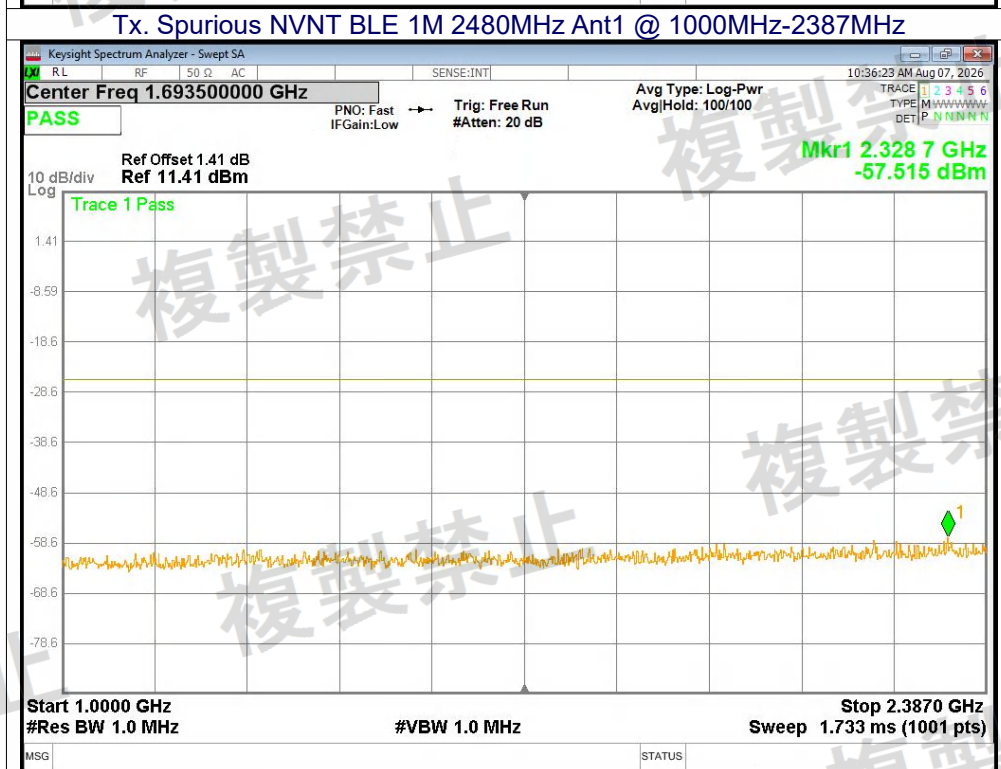
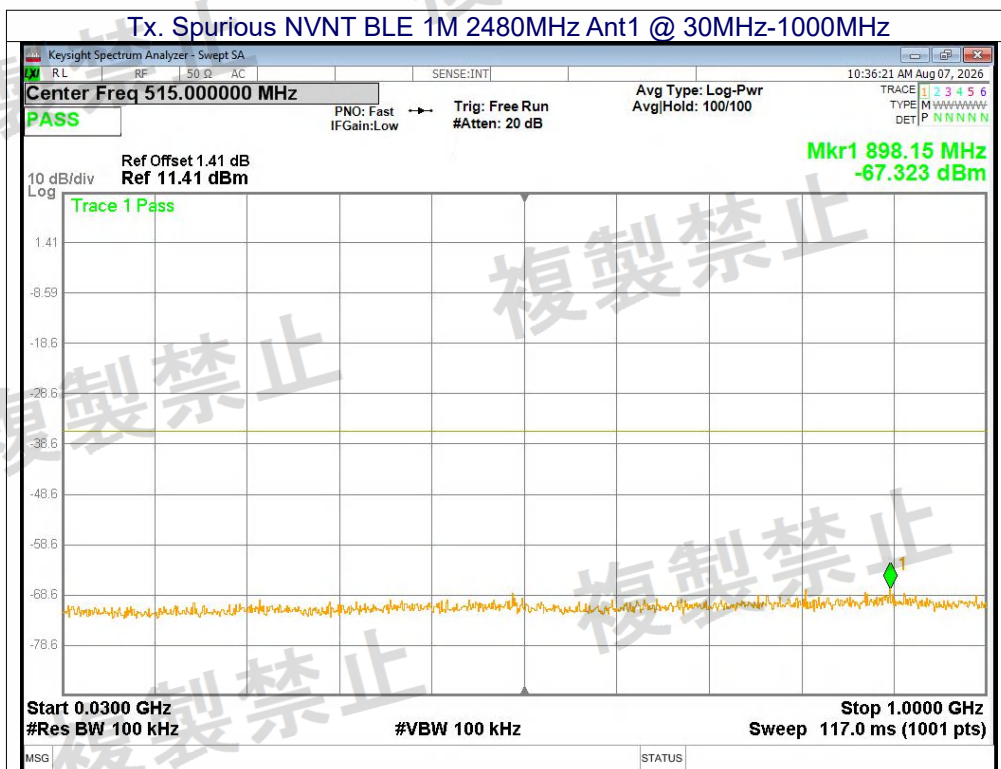


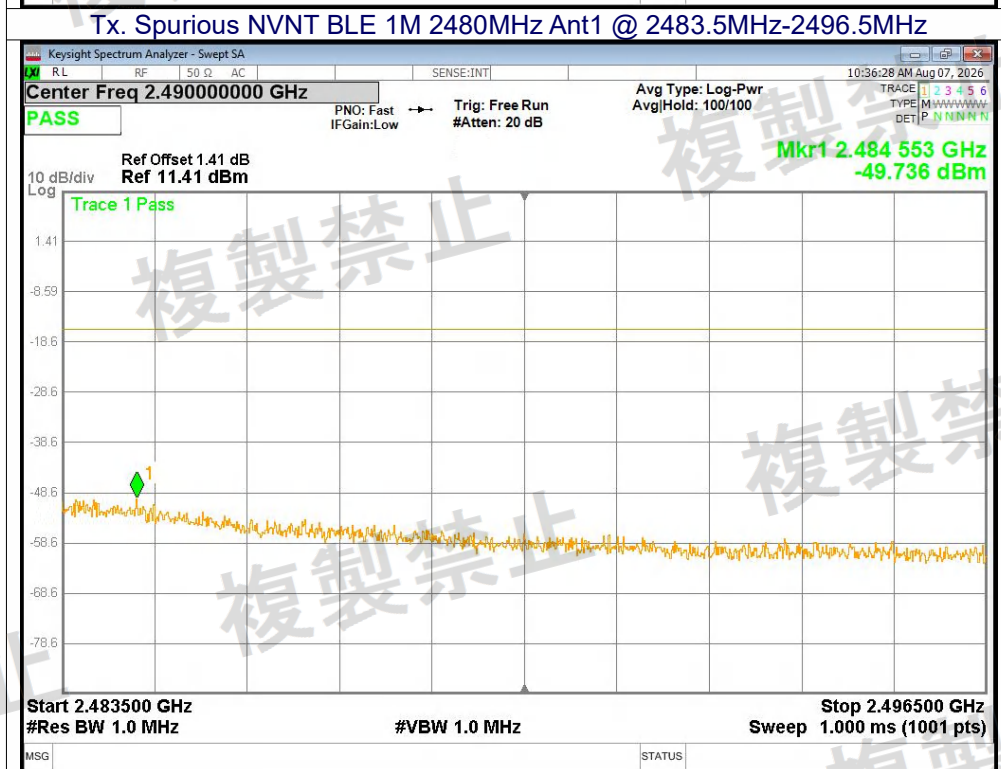
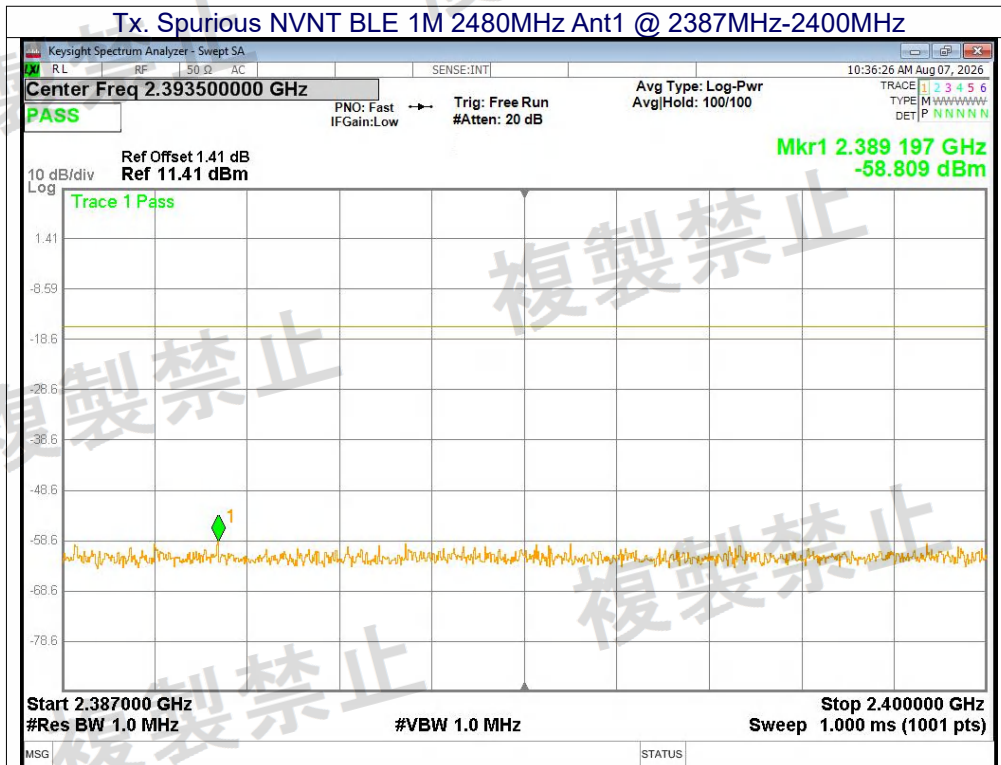


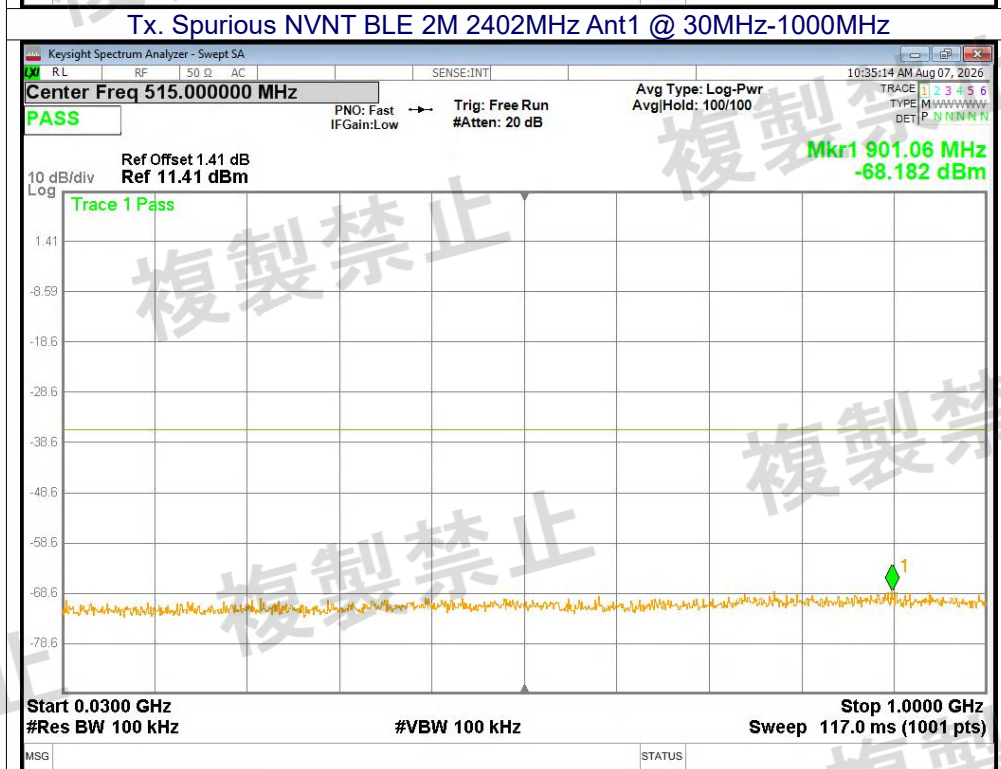
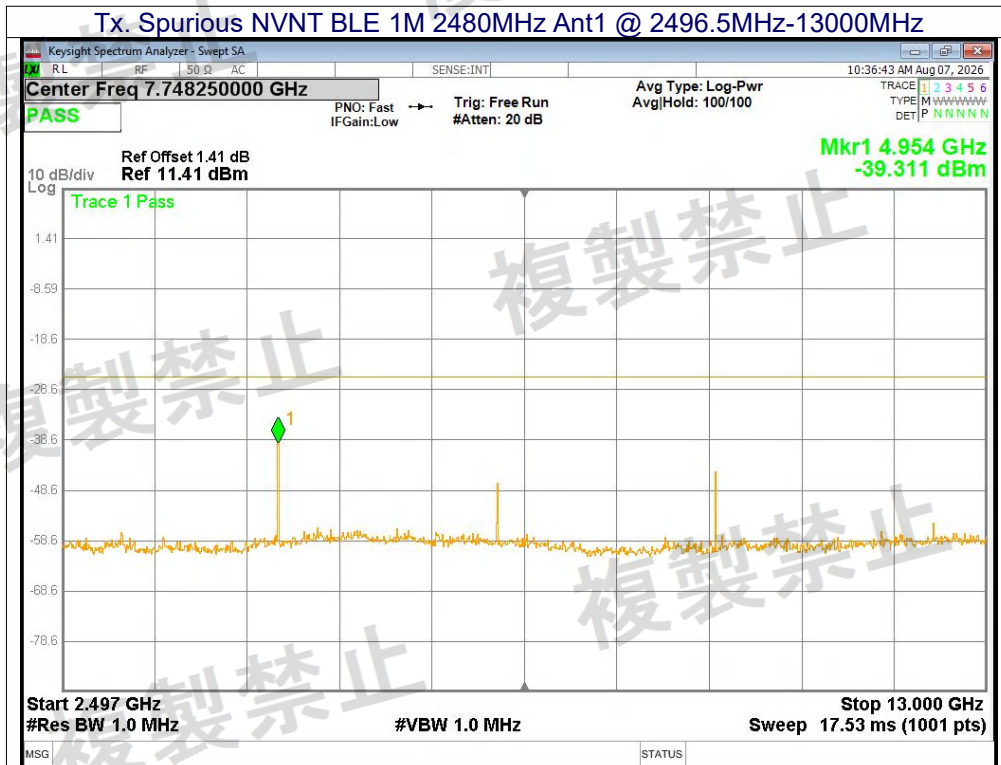


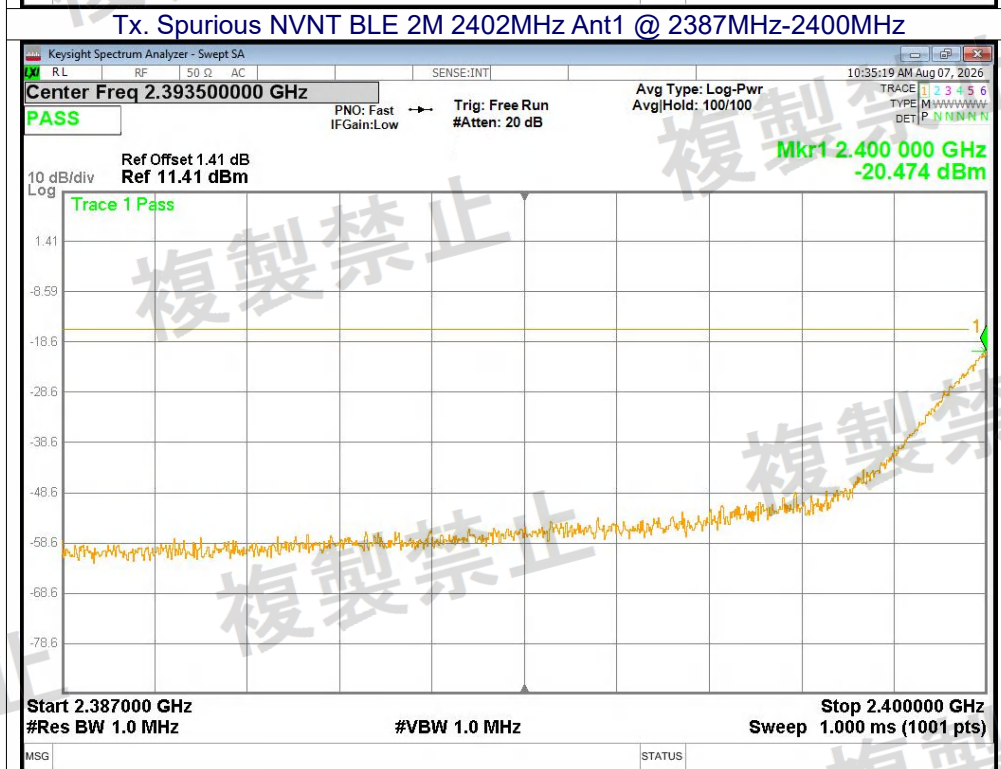
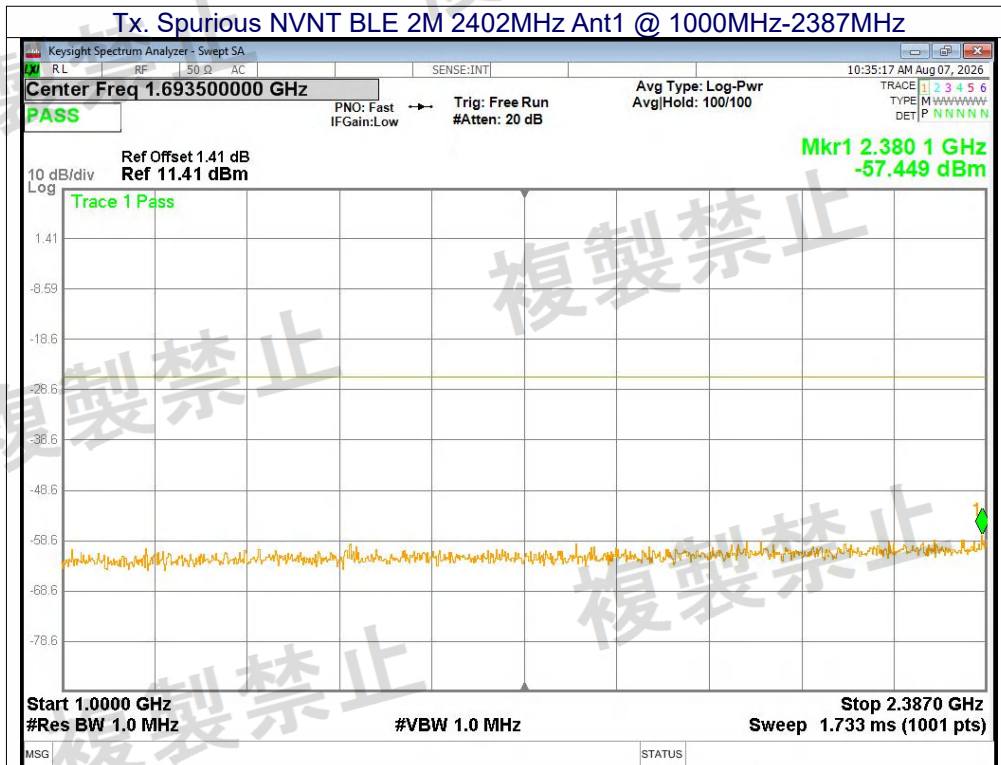


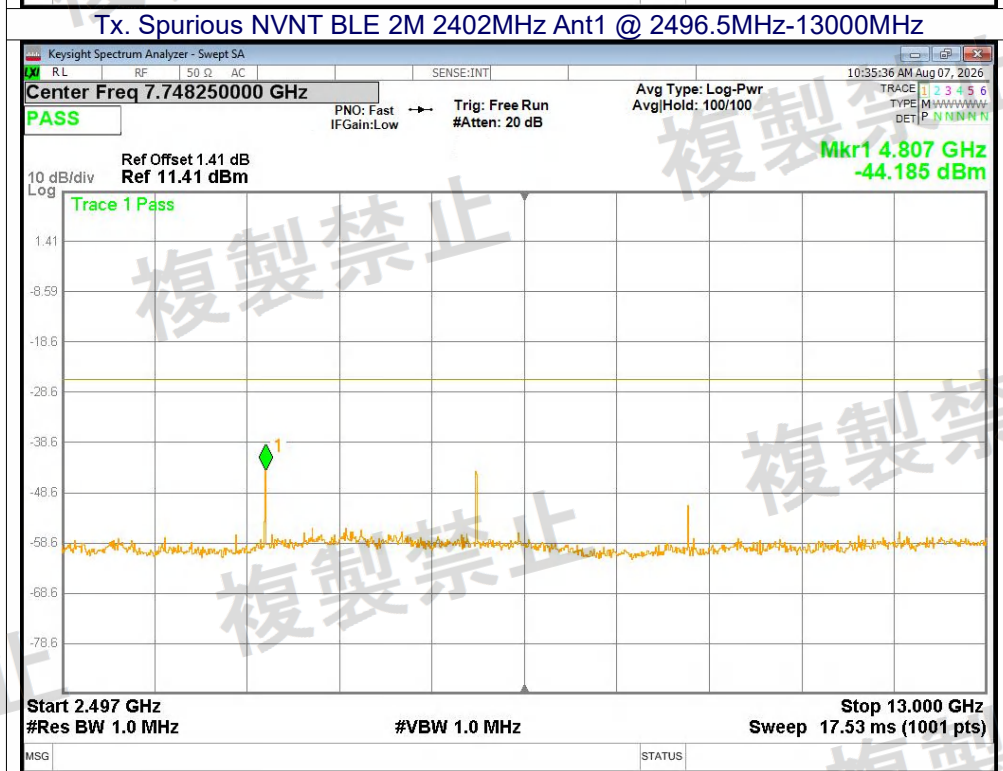
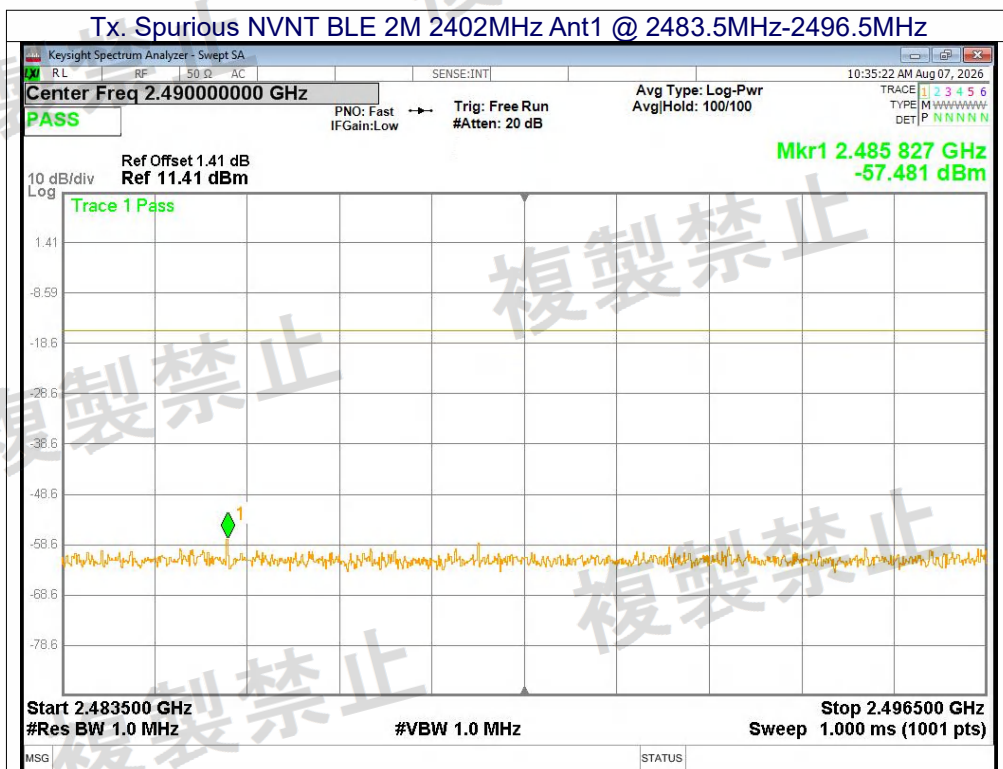


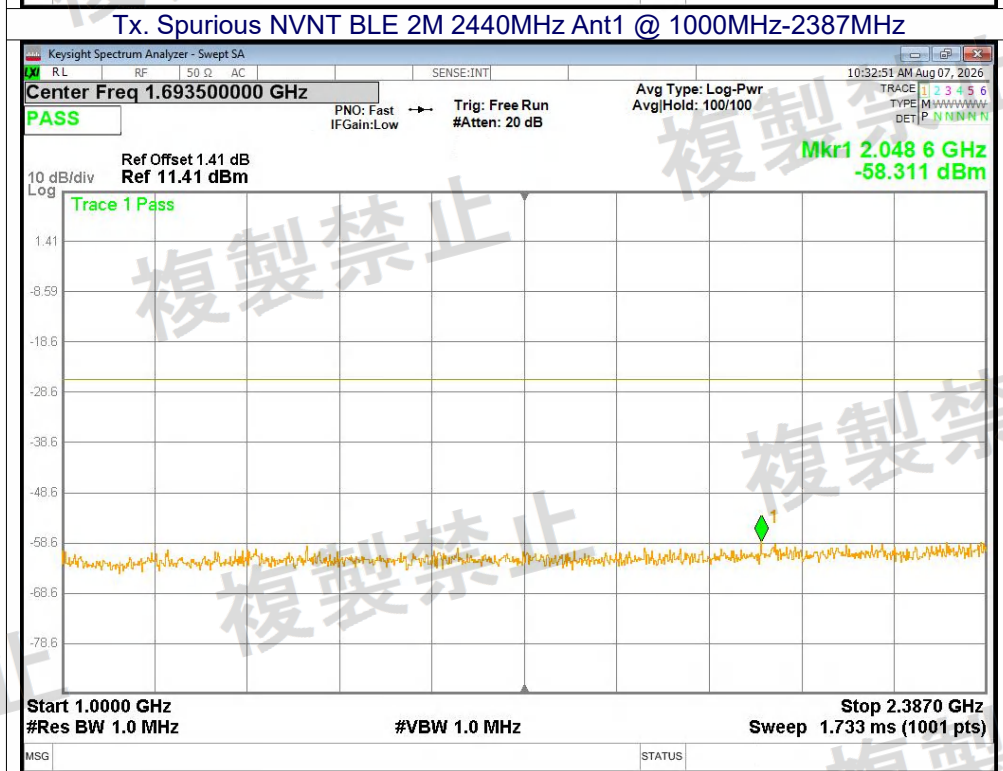
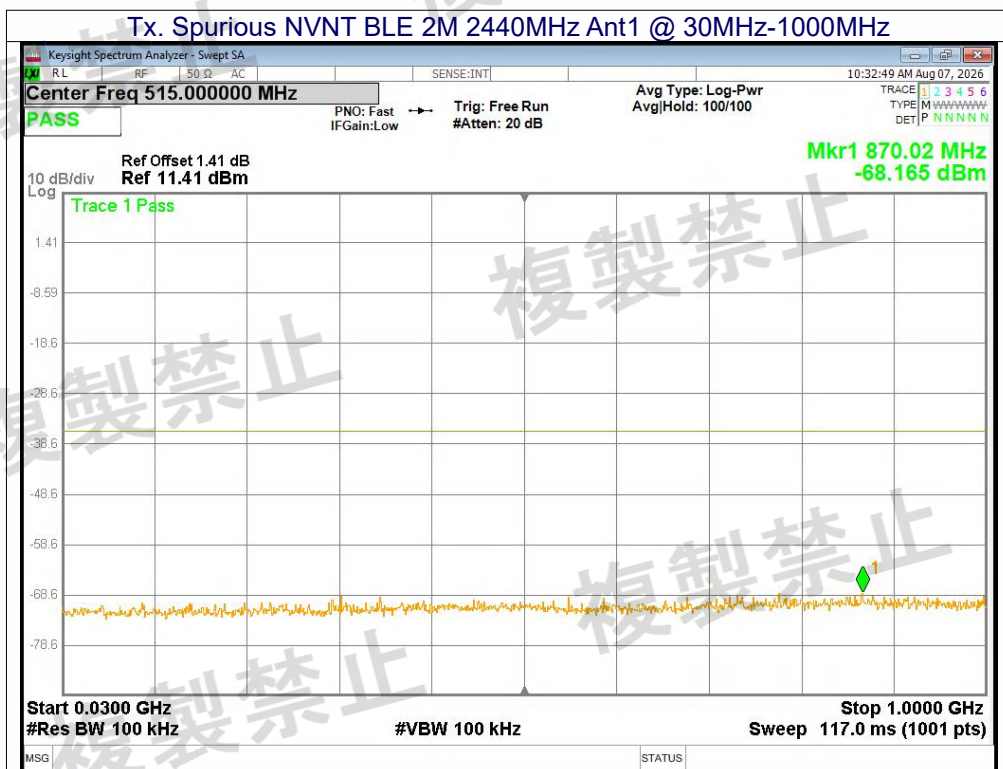


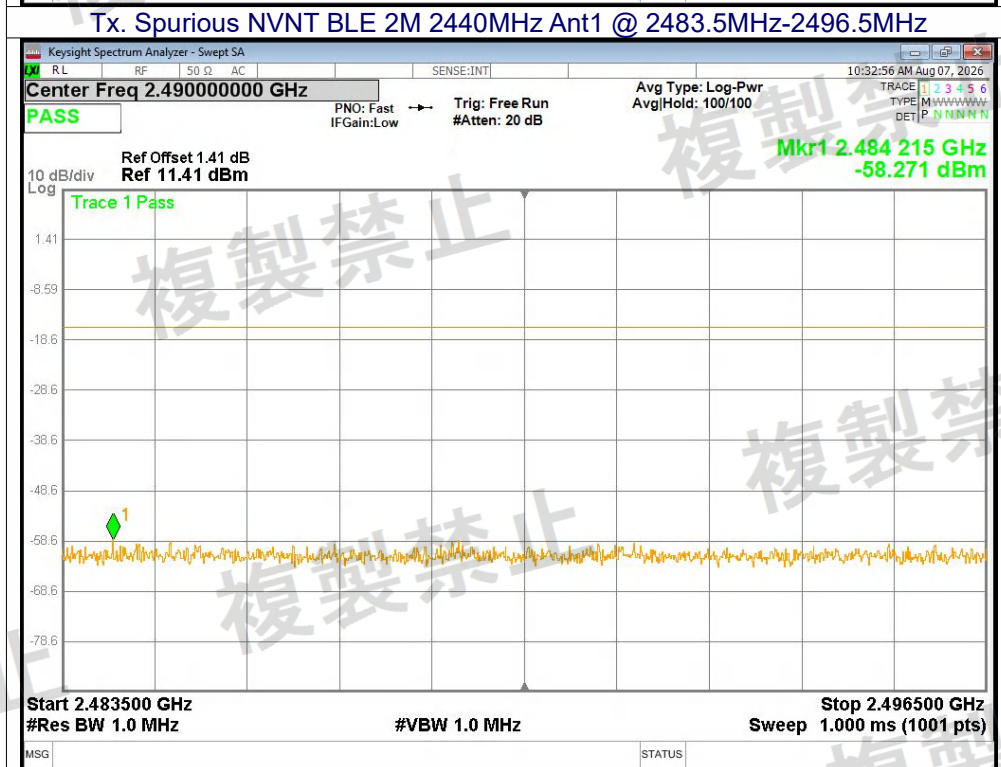
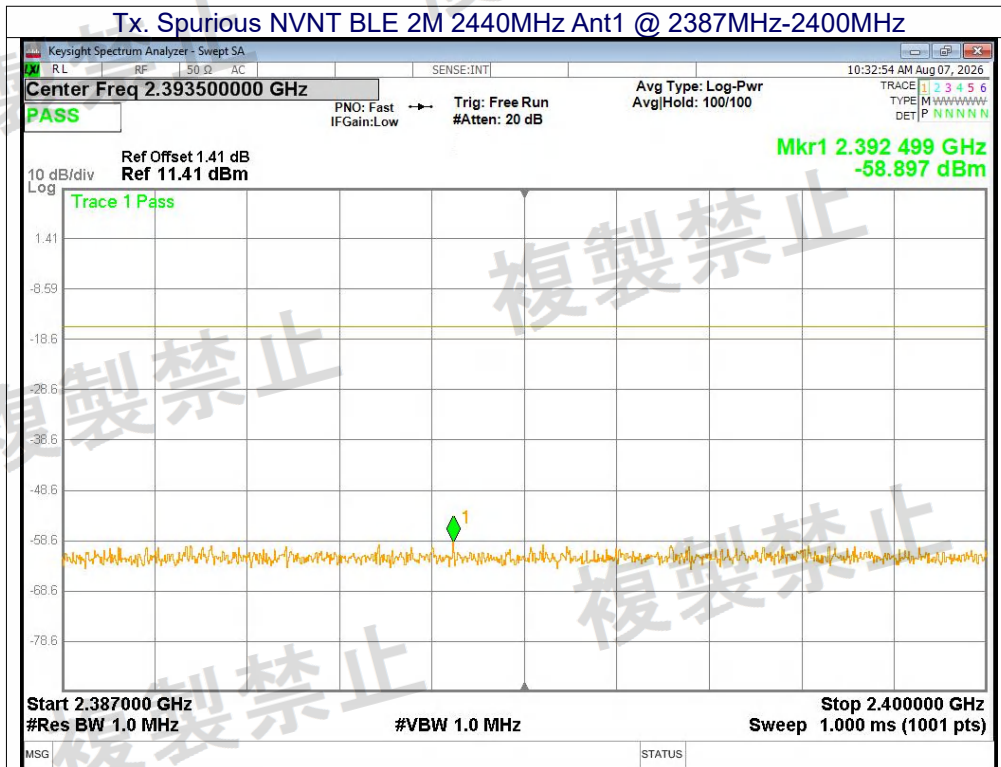


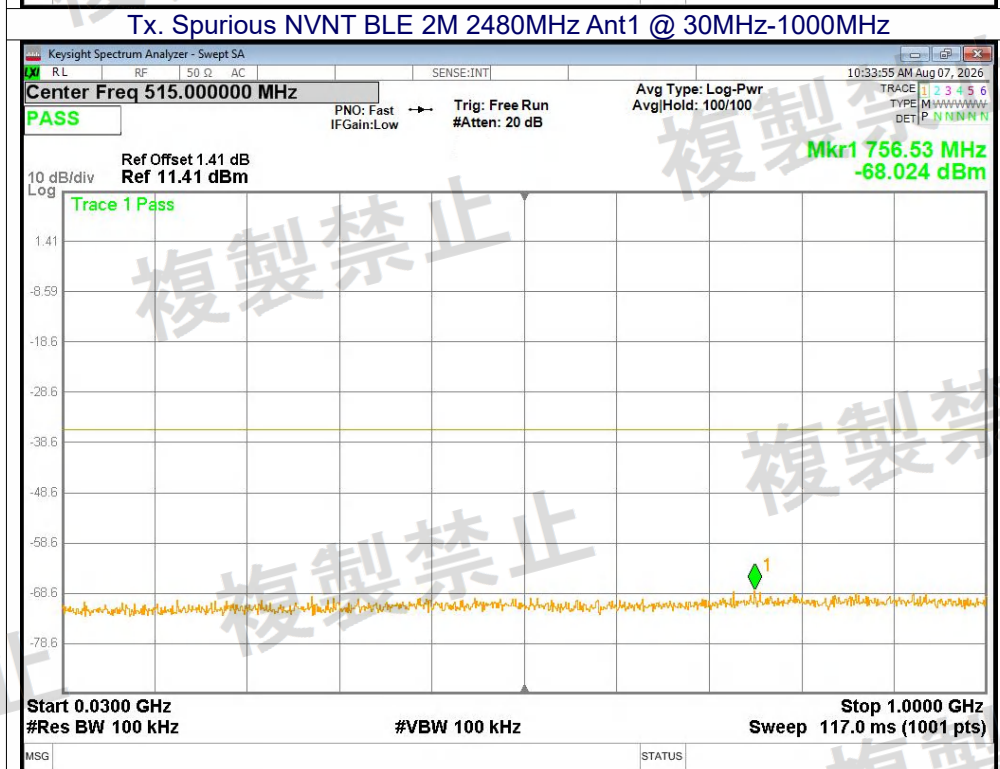
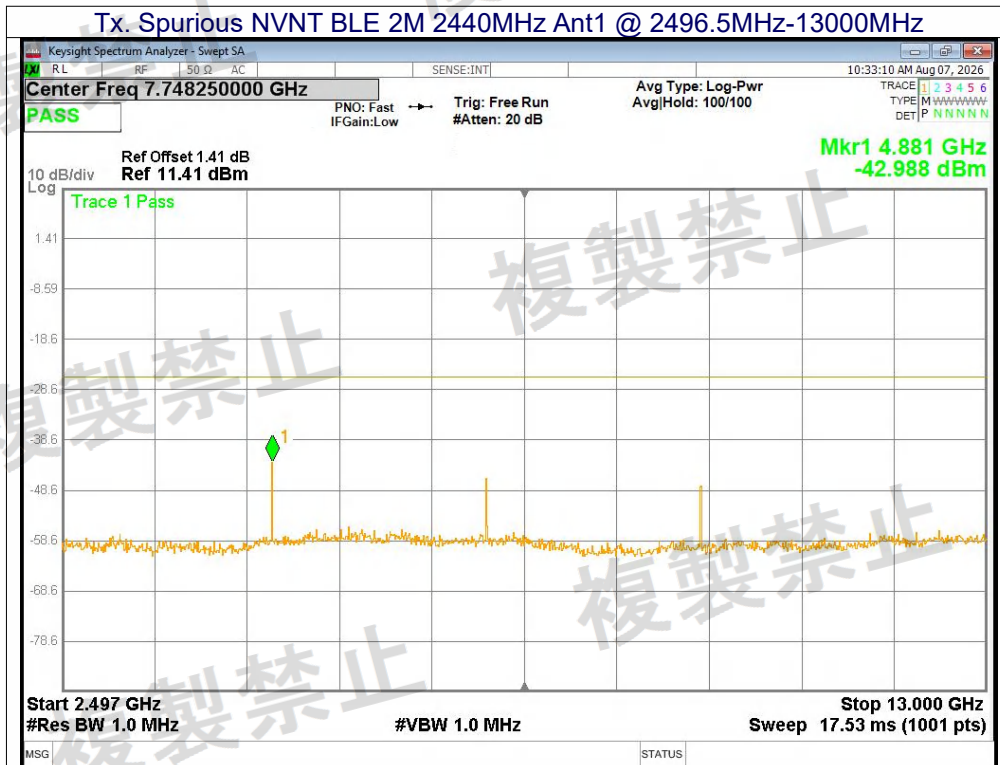


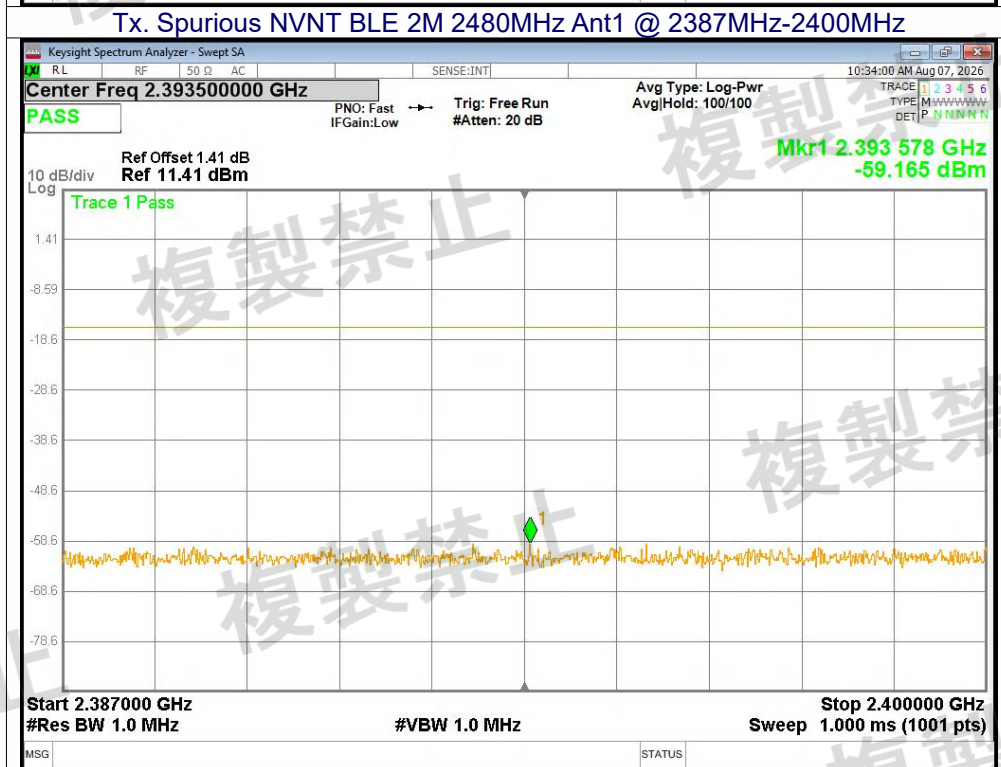
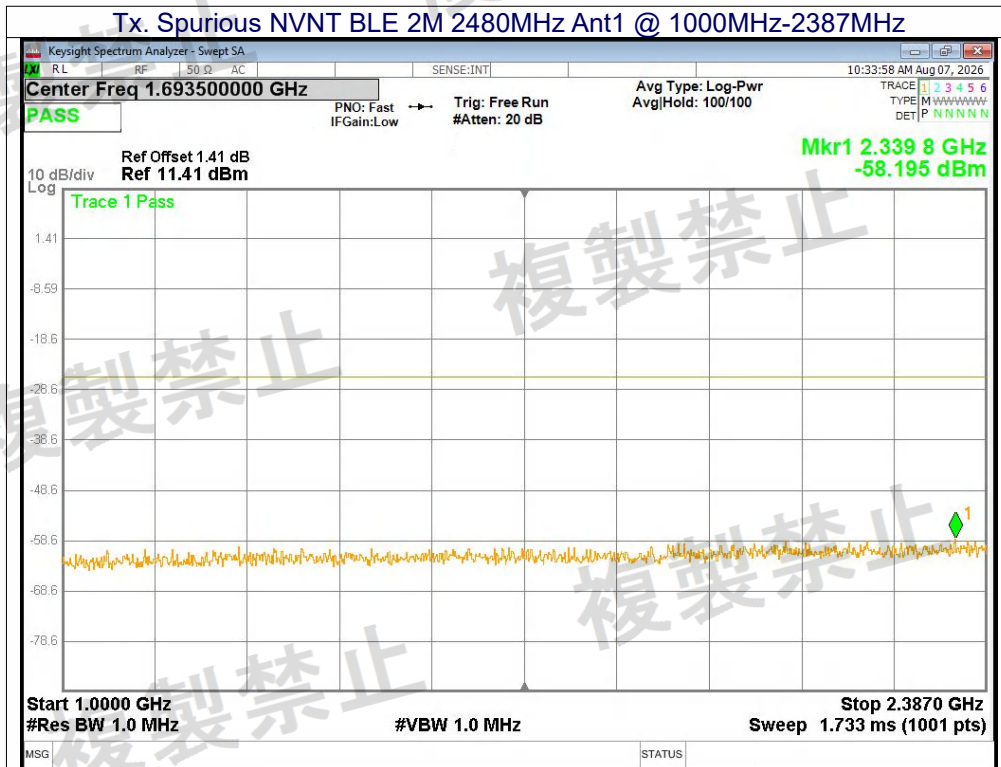


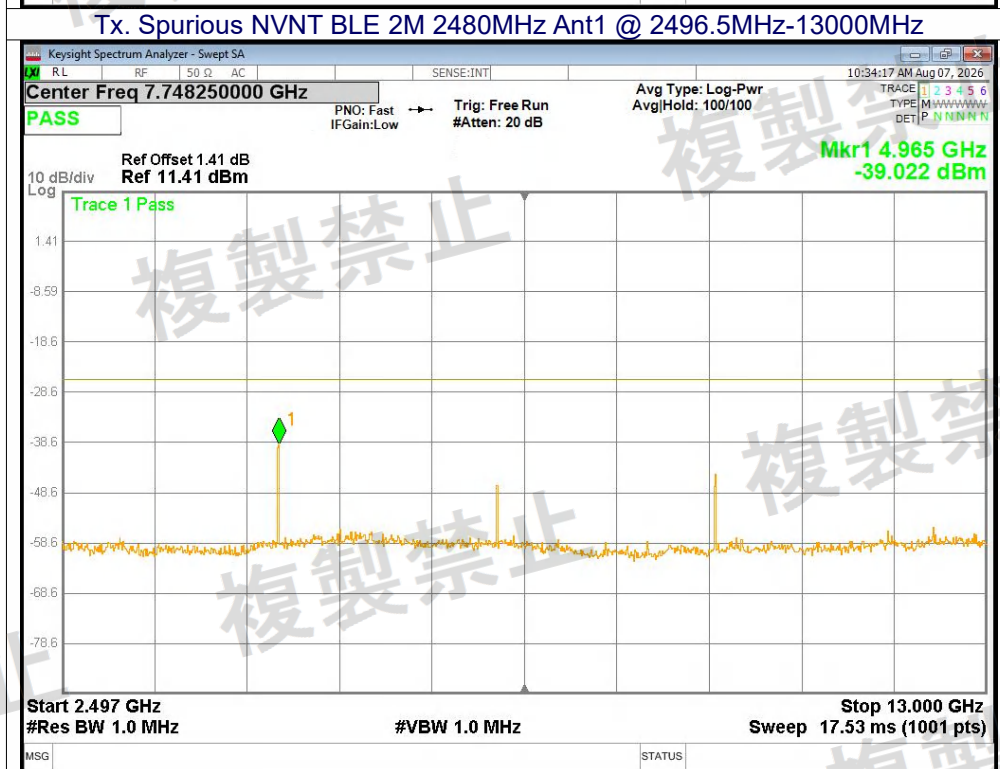
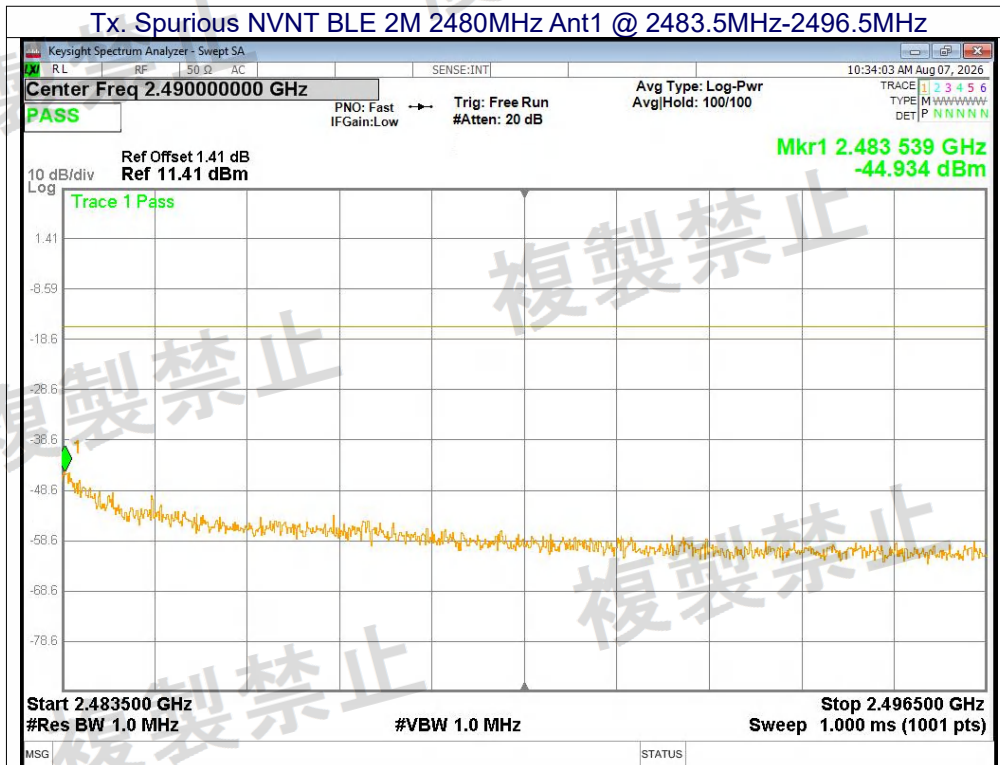












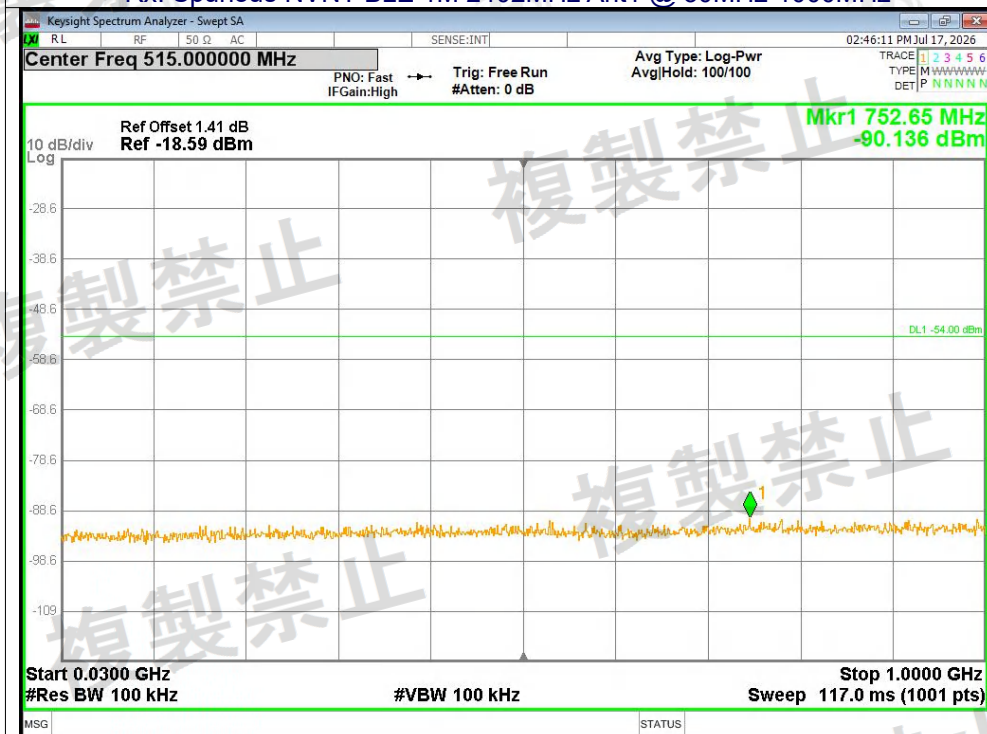


Rx Spurious Emission

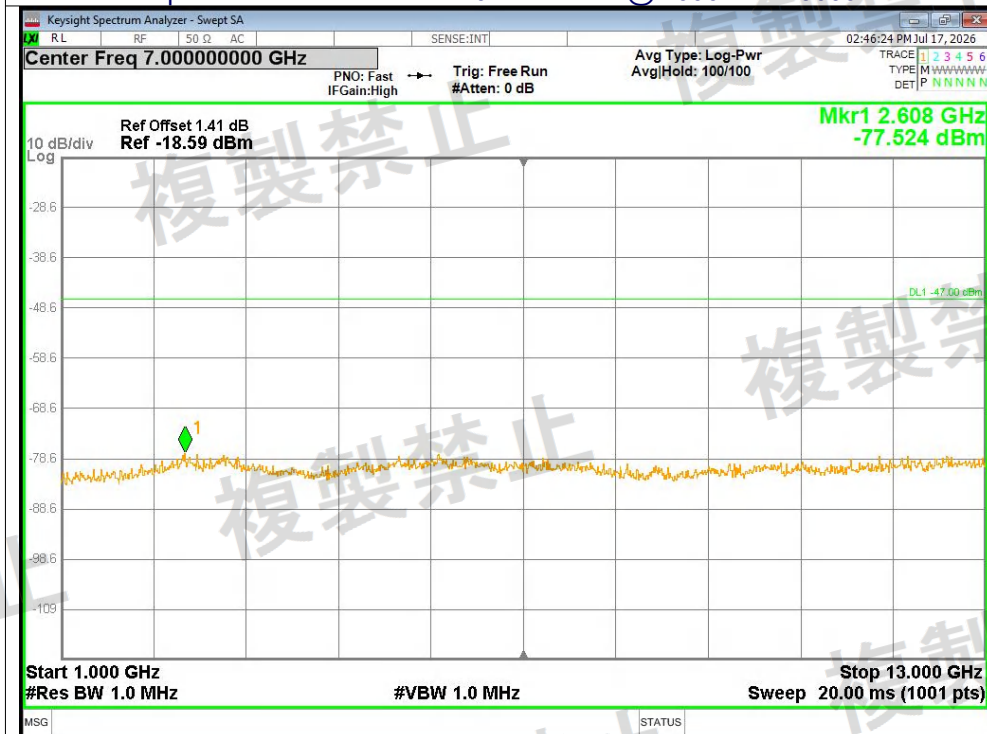
Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (dBm)	Limit (nW)	Verdict
BLE 1M	2402	Ant1	30-1000	809.88	-90.10	0.001	-54	4	Pass
BLE 1M	2402	Ant1	1000-13000	5932	-77.00	0.020	-47	20	Pass
BLE 1M	2440	Ant1	30-1000	878.75	-90.03	0.001	-54	4	Pass
BLE 1M	2440	Ant1	1000-13000	5644	-77.75	0.017	-47	20	Pass
BLE 1M	2480	Ant1	30-1000	863.23	-90.00	0.001	-54	4	Pass
BLE 1M	2480	Ant1	1000-13000	5752	-75.79	0.026	-47	20	Pass
BLE 2M	2402	Ant1	30-1000	422.85	-89.28	0.001	-54	4	Pass
BLE 2M	2402	Ant1	1000-13000	5920	-77.54	0.018	-47	20	Pass
BLE 2M	2440	Ant1	30-1000	907.85	-89.47	0.001	-54	4	Pass
BLE 2M	2440	Ant1	1000-13000	12700	-77.63	0.017	-47	20	Pass
BLE 2M	2480	Ant1	30-1000	892.33	-89.42	0.001	-54	4	Pass
BLE 2M	2480	Ant1	1000-13000	12436	-77.59	0.017	-47	20	Pass

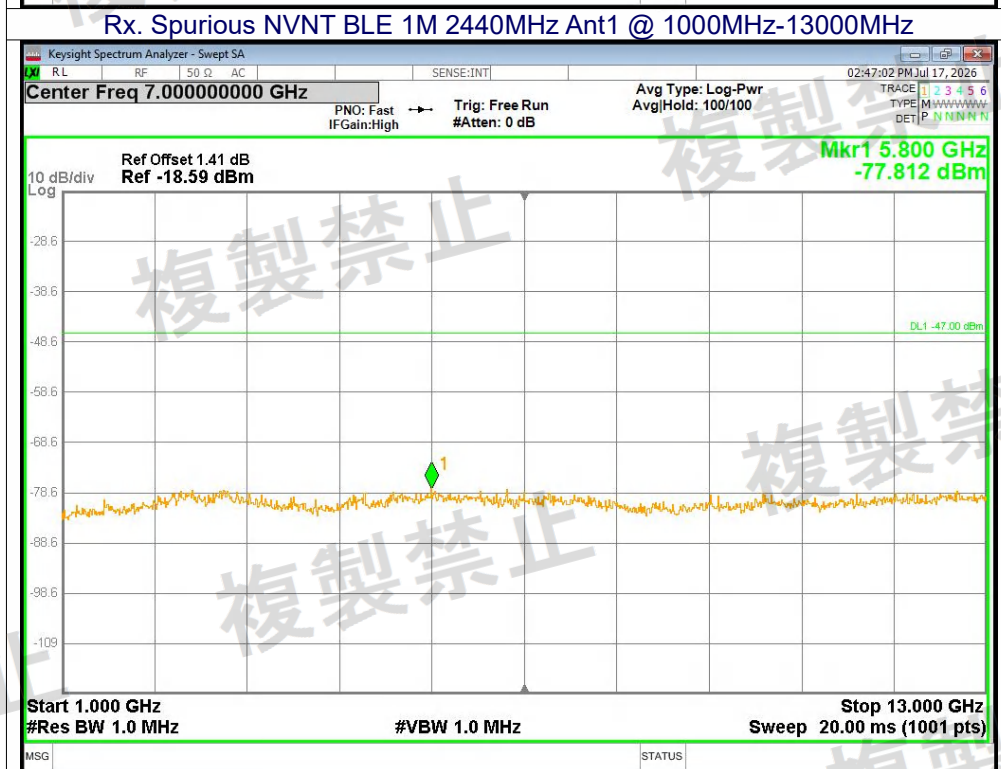
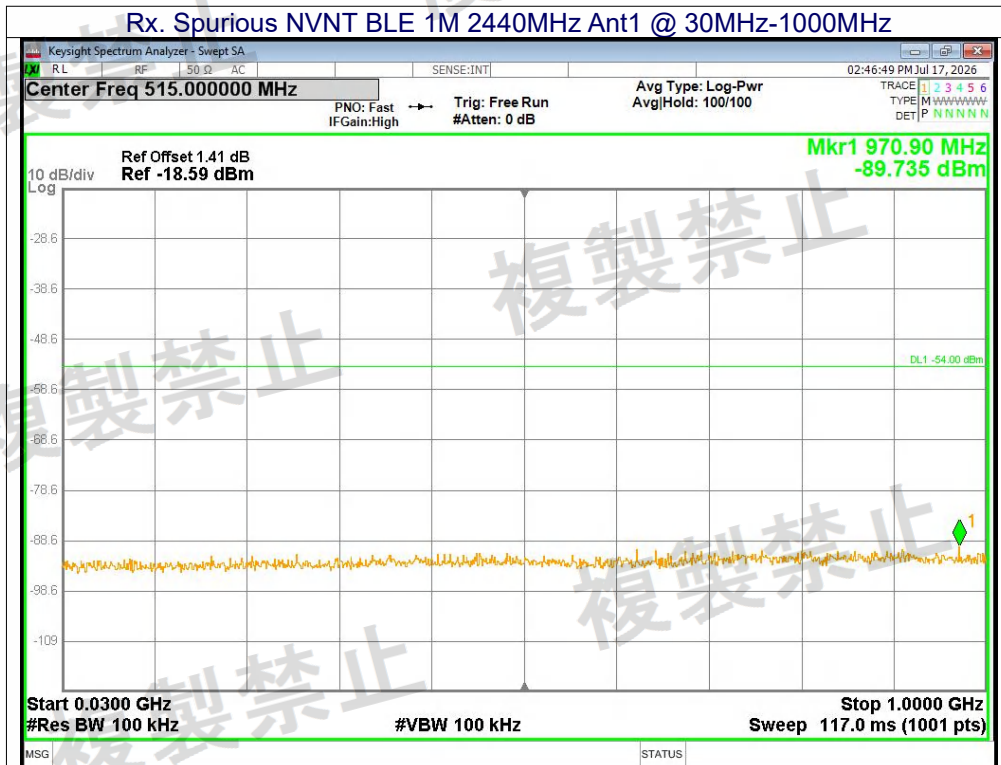
Test Graphs

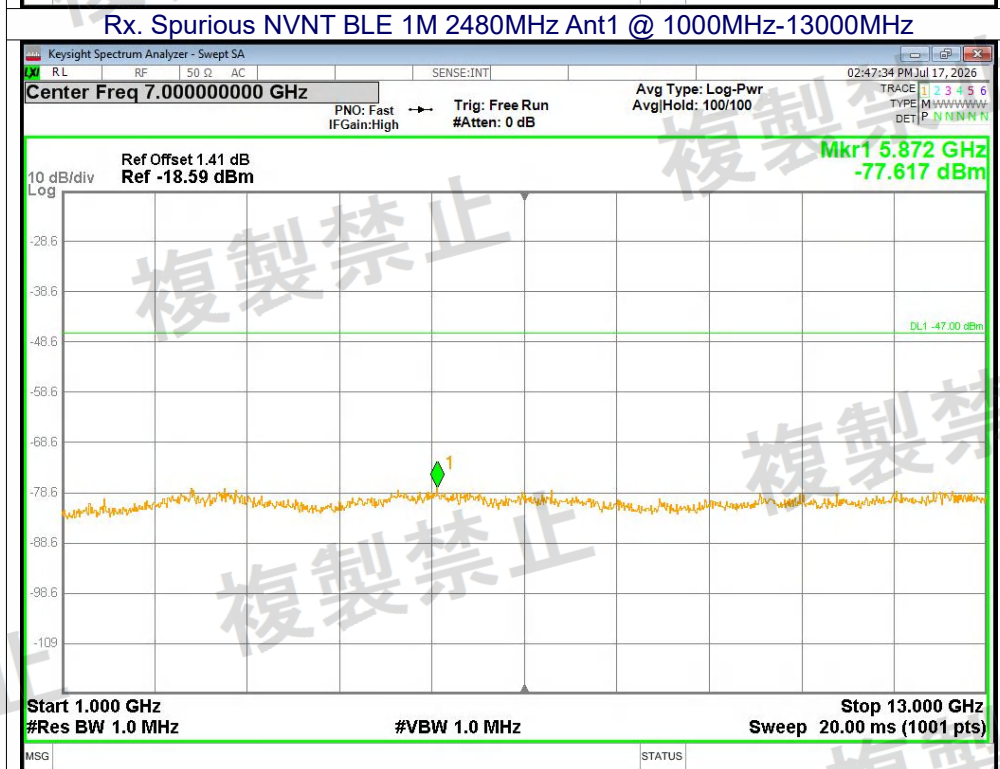
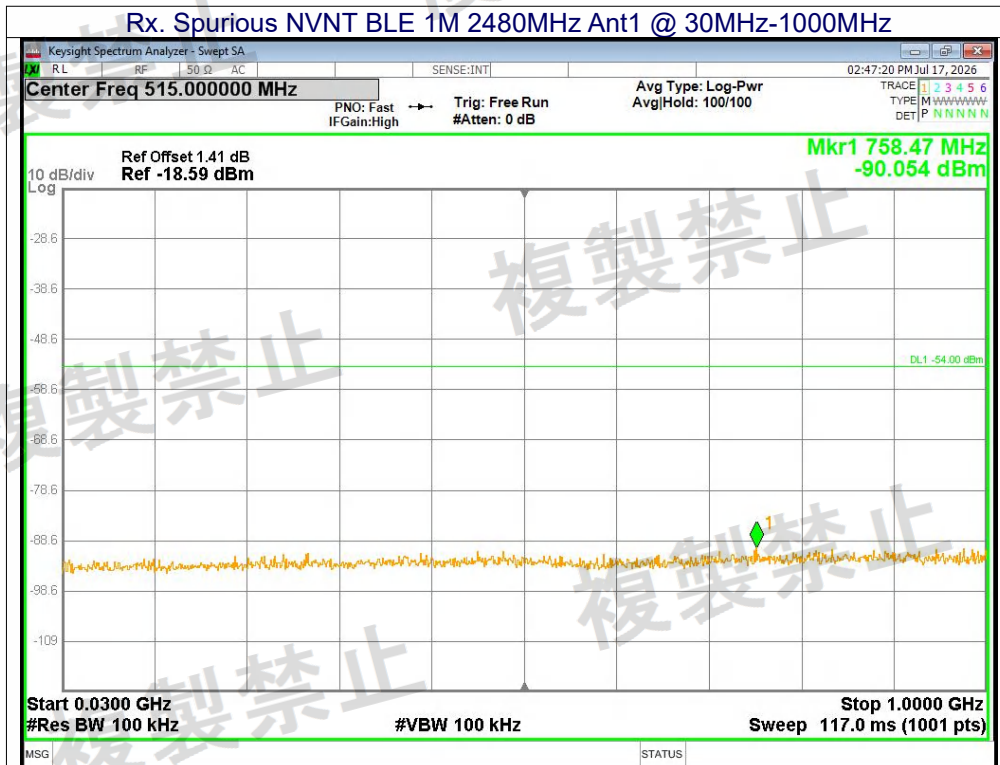
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz

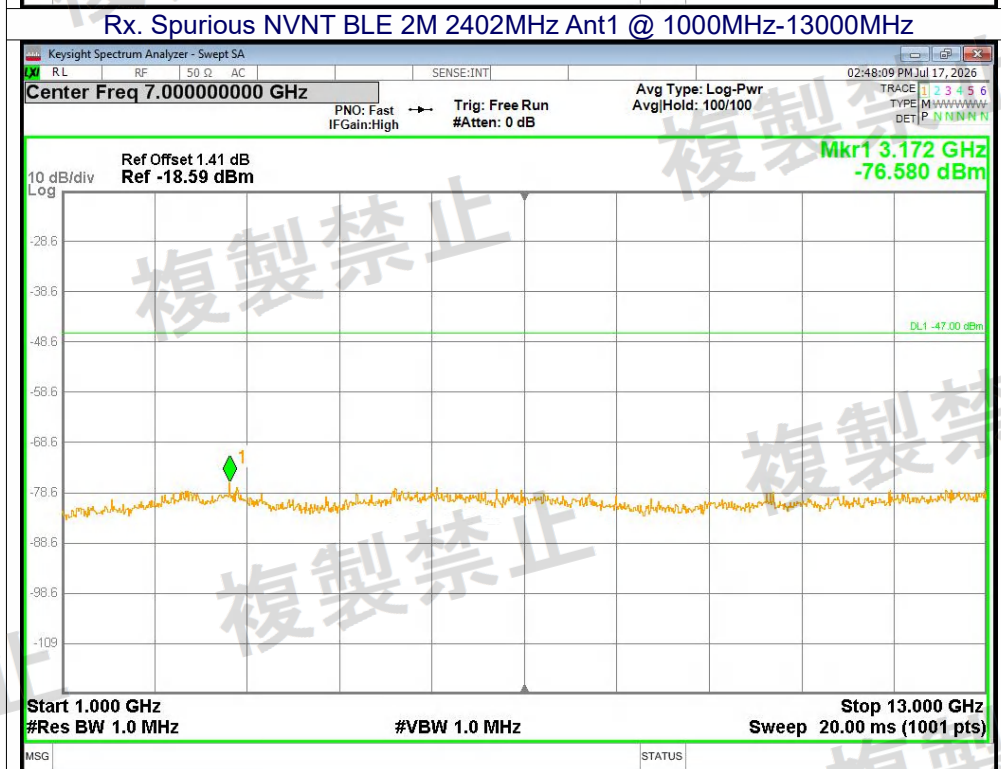
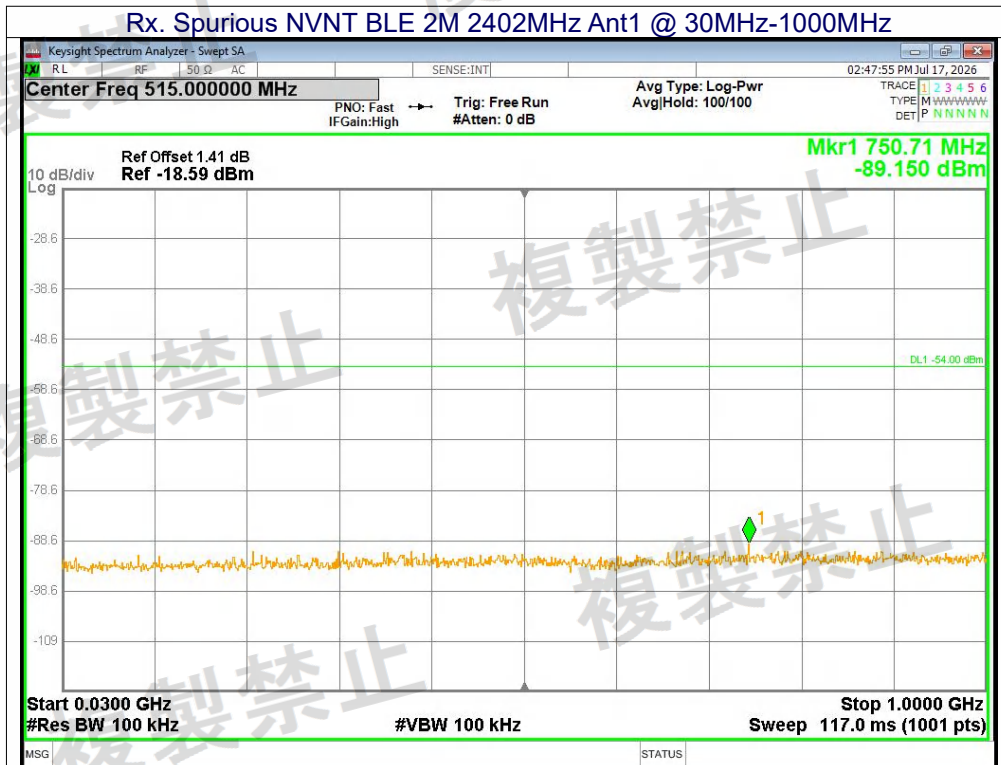


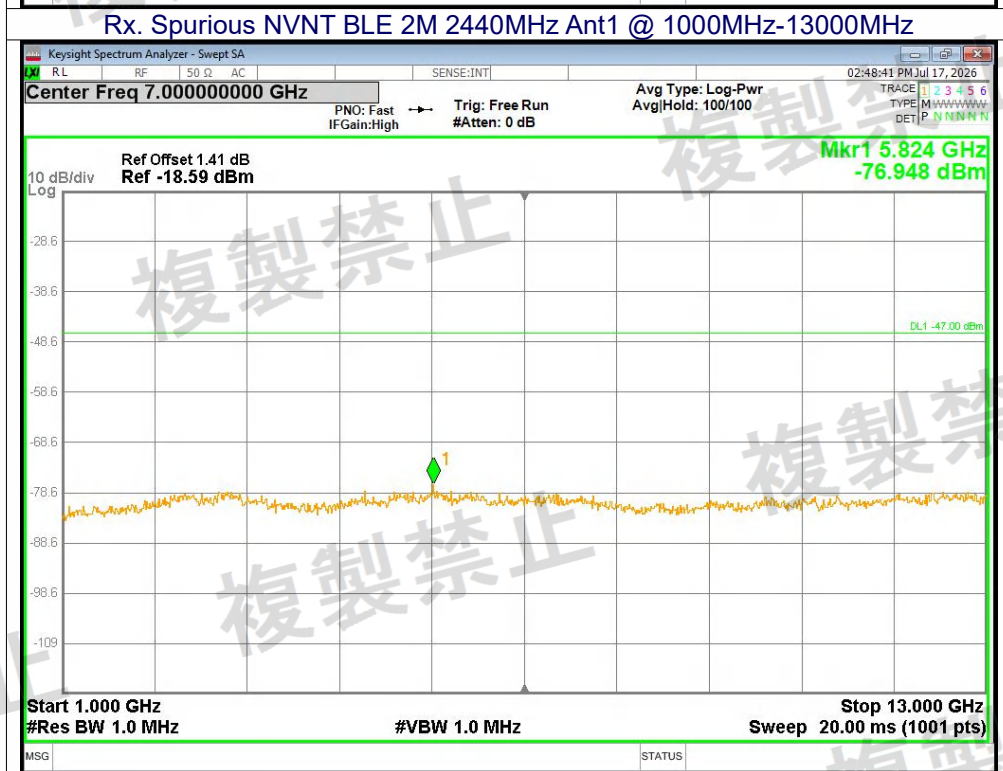
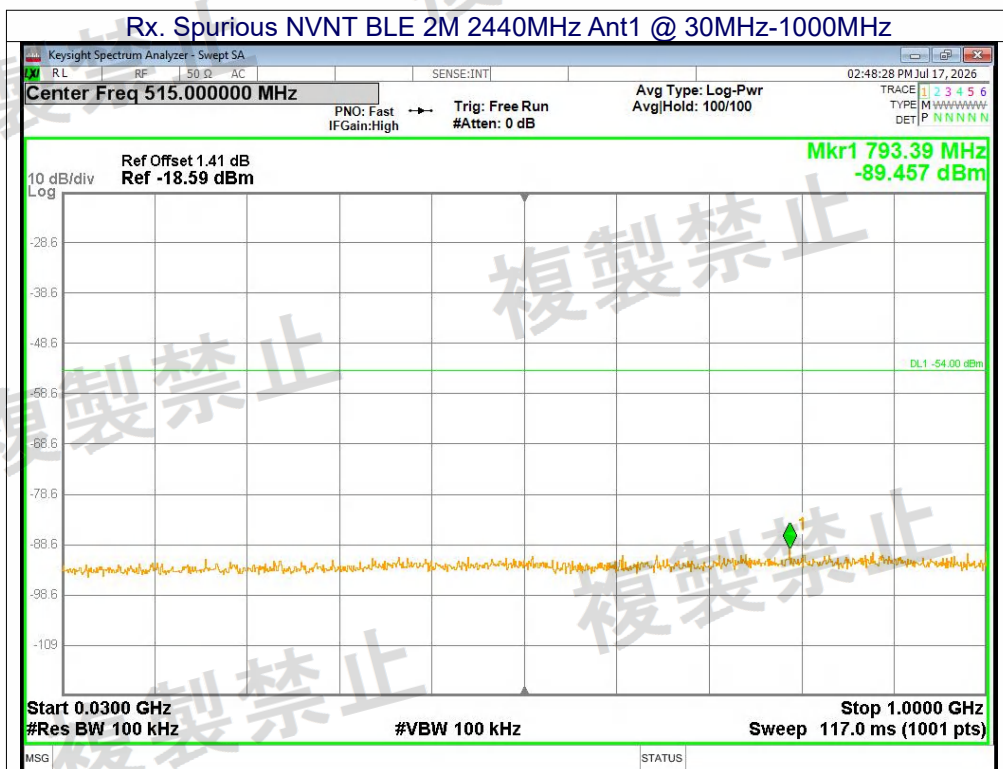
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-13000MHz

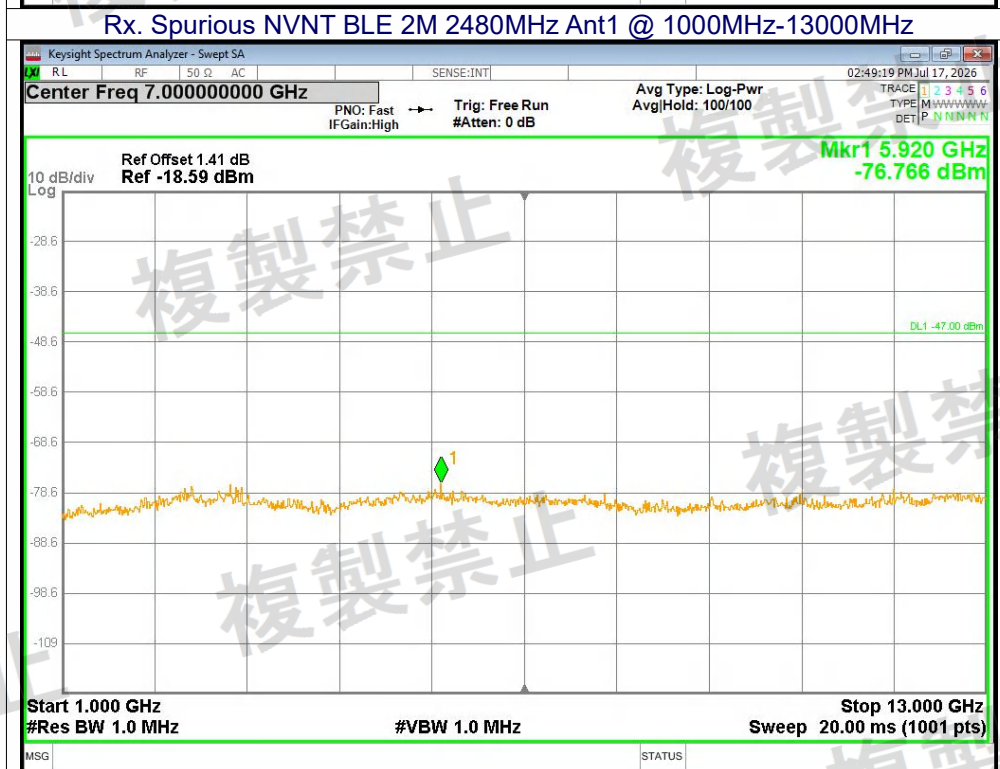
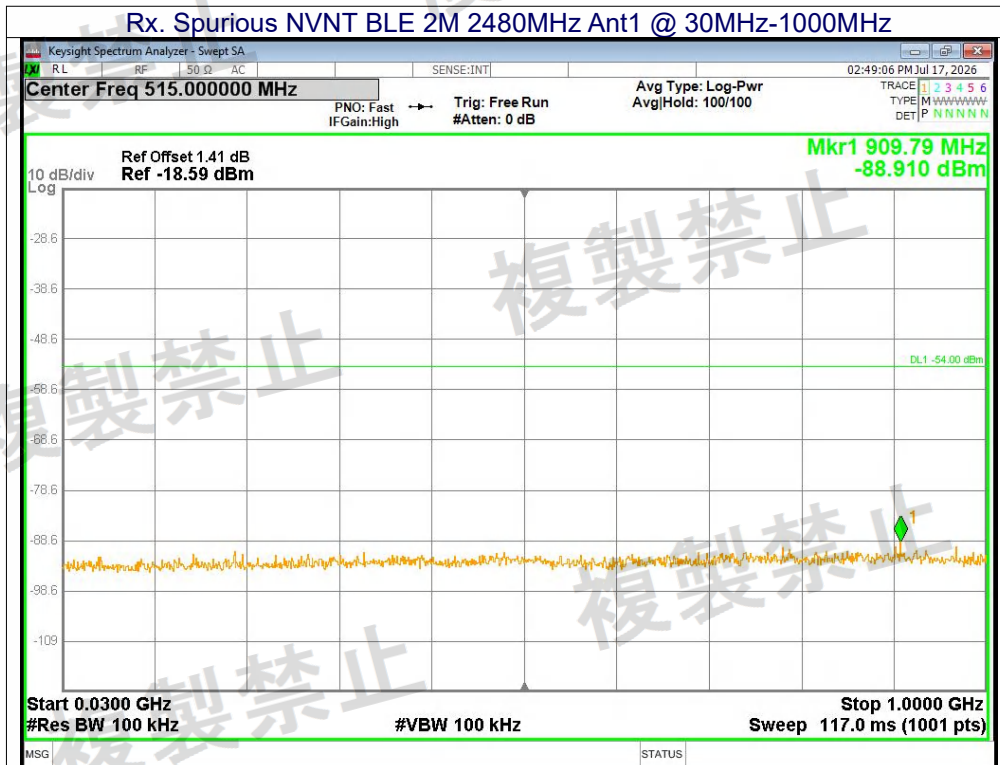














7. EUT TEST PHOTO

Reference to the appendix I for details.

8. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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