

TEST REPORT

Report No.: BCTC2606836153E

Applicant: BUFFALO INC.

Product Name: Receiver

Test Model: DNB00001

Tested Date: 2026-06-04 to 2026-06-24

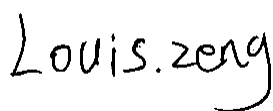
Issued Date: 2026-07-17

Shenzhen BCTC Technology Co., Ltd.



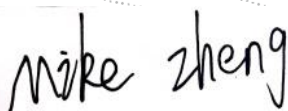
Product Name: Receiver
Trademark: BUFFALO
Model/Type reference: DNB00001
Prepared For: BUFFALO INC.
Address: AKAMONDORI Bldg., 30-20, Ohsu 3-chome, Naka-ku, Nagoya, 460-8315, Japan
Manufacturer:1 BUFFALO INC.
Address:1 AKAMONDORI Bldg., 30-20, Ohsu 3-Chome, Naka-ku, Nagoya, 460-8315, Japan
Manufacturer:2 Shenzhen Maxin Industry Co., Ltd.
Address:2 Building 303, No.2, Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Bao'an,Shenzhen, China
Manufacturer:3 BUFFALO TECHNOLOGY(TAIWAN) INC.
Address:3 7F-8, 18, Lane609, Sec.5, Chung Hsin Rd., San Chung Dist., New Taipei City 241, Taiwan
Factory:1 Shenzhen Maxin Industry Co., Ltd.
Address:1 Building 303, No.2, Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Bao'an,Shenzhen, China
Factory:2 Miya Electronic Co., Ltd.
Address:2 41-5 Nashinoki, Orido-cho, Nisshin-shi, Aichi 470-0115, Japan
Prepared By: Shenzhen BCTC Technology Co., Ltd.
Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China
Sample Received Date: 2026-06-04
Sample tested Date: 2026-06-04 to 2026-06-24
Report No.: BCTC2606836153E
Test Standards Article 2 paragraph 1 of item 19
Test Results PASS
Remark: This is JAPAN RADIO test report.

Prepared by :



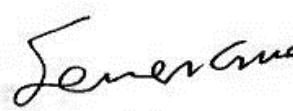
Louis Zeng

Reviewer by :



Mike Zheng

Approved by:



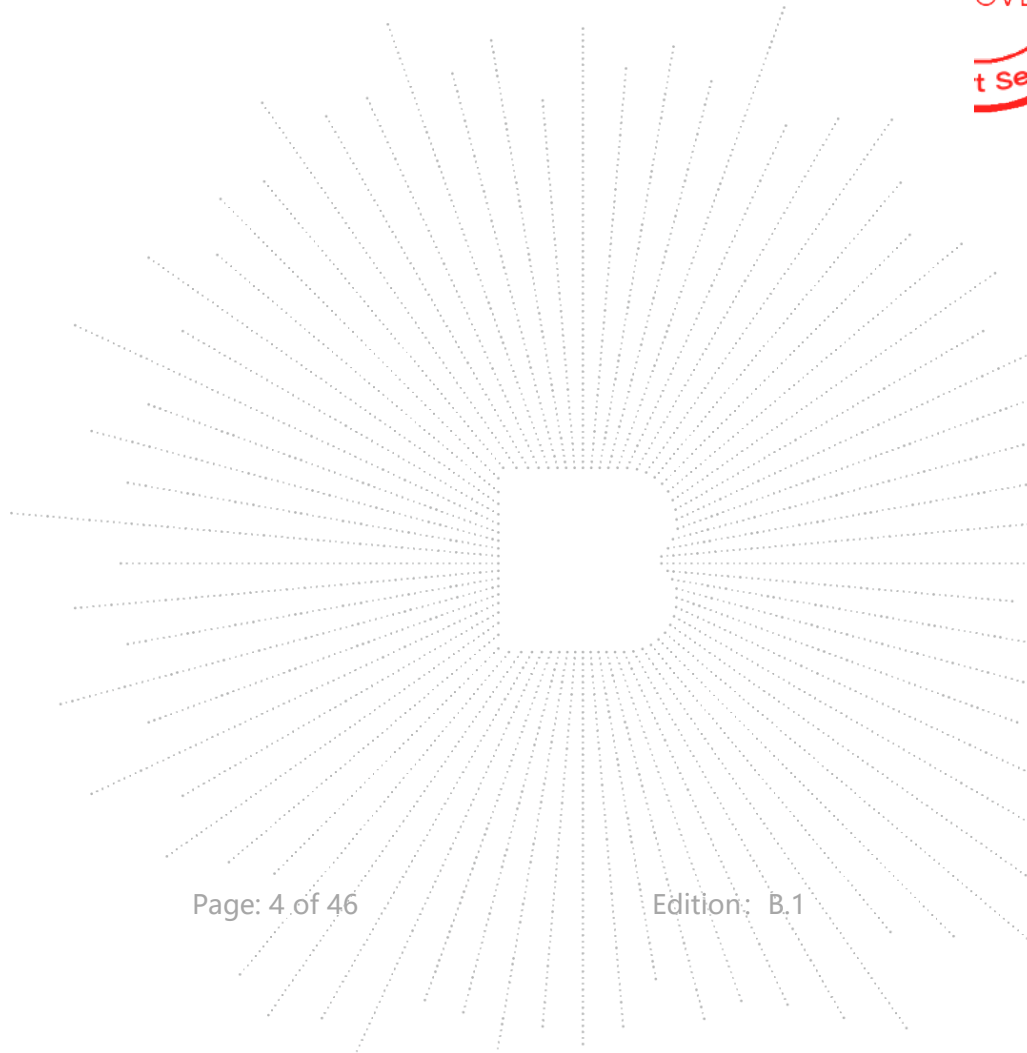
Sewen Guo

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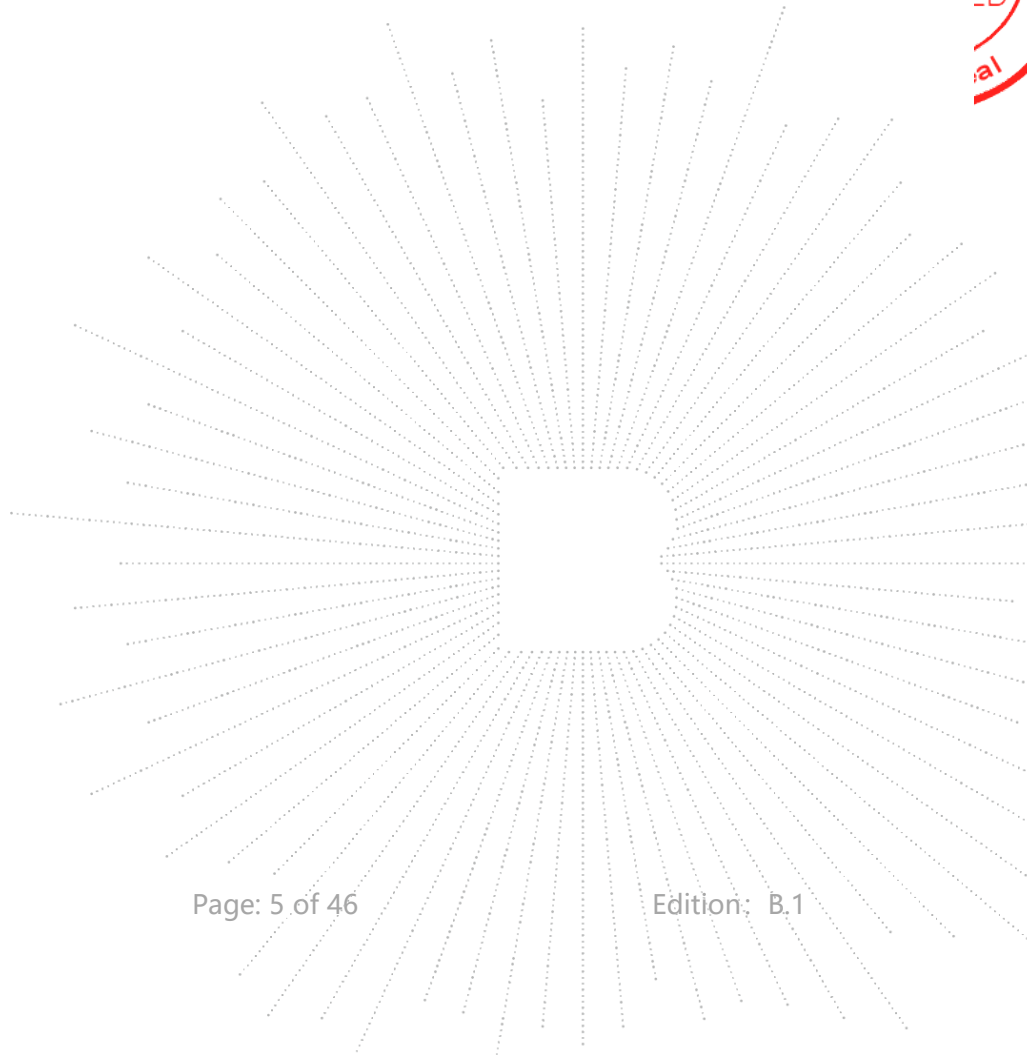
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2606836153E	2026-07-17	Original	Valid



2. Test Summary

Test procedures according to the technical standards:

Article 2 paragraph 1 of item 19			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	N/A
6	Occupied Bandwidth	PASS	N/A
7	Spurious Emissions Intensity	PASS	N/A
8	Radio Interference Prevention Capability Measurement	PASS	N/A
Transmitting equipment			
6	Antenna Power	PASS	N/A
Transmitting antenna			
20	Type, Configuration, etc., of Transmitting Antenna	PASS	N/A
22	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS	N/A
Receiving antenna			
24	Limitation of Collateral Emission of Receiver	PASS	N/A
26	Refer to All Articles for Transmitting Antenna	PASS	N/A
Operating frequency 2400~2483.5MHz			
49.20(1);a	RF Shielding Method	PASS	N/A
49.20(1);a	Communication Method	PASS	N/A
49.20(1);b	Spread-spectrum Method	PASS	N/A
49.20(1);c	Antenna Power	PASS	N/A
49.20(1);d	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS	N/A
49.20(1);e	Spread-Spectrum Bandwidth	PASS	N/A
49.20(1);f	Spreading Factor	PASS	N/A
49.20(1);g	Hopping Frequency Dwell Time (FH employed)	PASS	N/A

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

3. 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	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power,conducted	$\pm 0.16\text{dB}$
4	Spurious emissions,conducted	$\pm 0.21\text{dB}$
5	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions,radiated(>1G)	$\pm 5.0\text{dB}$
7	frequency error ppm	$\pm 0.5\text{ppm}$

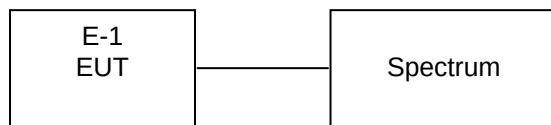
4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	DNB00001
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	2402-2480MHz
Modulation:	GFSK
Number Of Channel:	40channel
Transmit Power Max:	0.02mW/MHz
Antenna installation:	Internal antenna
Antenna Gain:	1.71dBi
Remark:	The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information.
power supply:	DC 5V



4.2 Block Diagram Parameters Of Text Software Setting



4.3 Description Of Support Units (Conducted Mode)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Receiver	N/A	DNB00001	N/A	EUT

Notes:

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”.

4.4 Channel List

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442
02	2404	12	2424	22	2444
03	2406	13	2426	23	2446
~	~	~	~	~	~
09	2418	19	2438	39	2478
10	2420	20	2440	40	2480

Notes: The device operates in frequency hopping mode across 40 channels in the 2.4GHz band. The hopping sequence is automatically controlled and distributed uniformly.

4.5 Test Mode

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.

For All Mode	Description	Modulation Type
Mode 1	CH01	GFSK
Mode 2	CH20	
Mode 3	CH40	
Mode 4	RX	GFSK

4.6 Test Conditions

The 2.4GHz frequency hopping system 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.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power	DC 5V	DC 5.5V	DC 4.5V
Voltage Variation (%)	DC 3.3V	DC 3.3V	DC 3.3V

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%, +/-10% of the external power change, will not affect the voltage of the RF, so only operated in normal voltage to test all regulations.

4.7 Table Of Parameters Of Test 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

Test software Version	Key frequency setting		
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Technology Co., Ltd. Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Spectrum Analyzer	Keysight	N9020A	MY51287403	2025.08.30	2026.08.29
Signal Generator	Keysight	N5182A	MY50144088	2025.08.30	2026.08.29
Power Sensor	Keysight	U2001	MY51250006	2025.10.28	2026.10.27
Temperature & Humidity	Wetest	HTC-1	/	2025.09.01	2026.08.31
Communication test set	R&S	CMW500	157483	2025.08.30	2026.08.29
Radio frequency control box	MWRFTest	MW100-RFCB	\	\	\
Software	MWRFTest	MTS 8310	V 3.0.0.0	\	\
D.C. Power Supply	Elektro-Automatik GmbH & Co.KG	D-41747 Viersen	6230316	2025.09.30	2026.08.29
Temperature and humidity test chamber	Auchno	OJN-9606-408L	19120183	2025.07.09	2026.07.08

Remark:

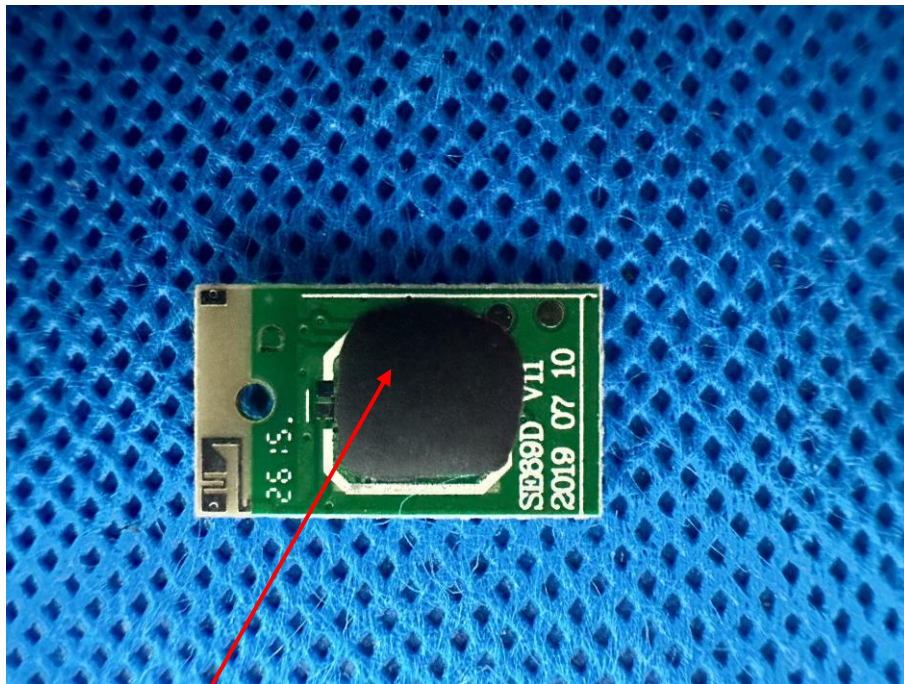
- (a) Calibration conducted by the National institute of information and communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph in JRL.
 - (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
 - (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).
- The calibration corresponds to c described above.From JRL Article 24-2, paragraph 4, Item 2
Notice: calibration duration for above equipments is 1 year

Calibration laboratory: CCIC(Shenzhen) Co., Ltd

6. RF method of Tamperproof

Chipset:

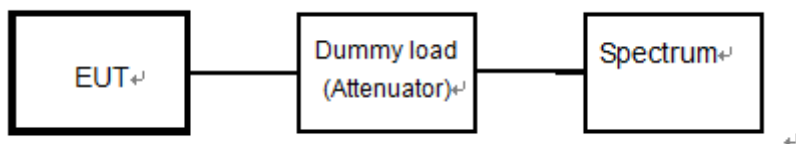
This with internal components assembled using SMD surface-mount technology. As illustrated in the accompanying figure, attempting to disassemble the unit will result in permanent damage to the product.



Protective containment soldering

7. Frequency Error

7.1 Block Diagram Of Test Setup



7.2 Limit

Item	Limits
Frequency Error	±50ppm

7.3 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

7.4 Test procedure

- (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.

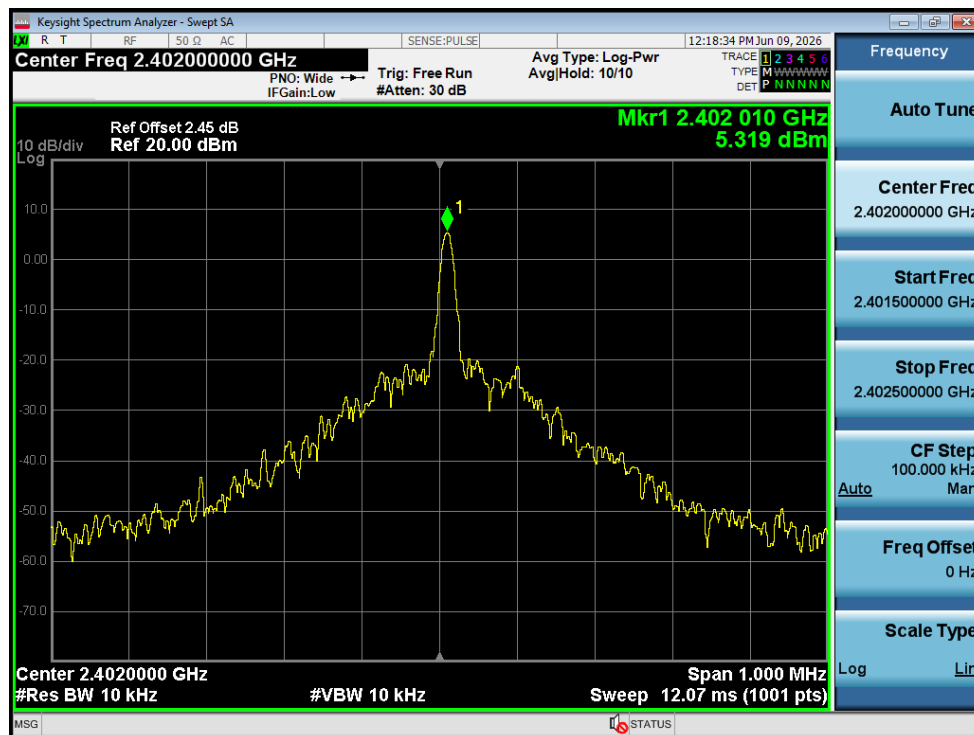
7.5 Test Result

Temperature:	26°C		
Humidity:	54% RH	Test Voltage	DC 5V

Operation Mode:	Transmitting- unmodulation mode
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Voltage	Frequency	Reading	Tolerance	Limit
Normal Voltage	MHz	MHz	ppm	(ppm)
	2402	2402.01	4.16	±50
	2440	2440.01	4.1	±50
	2480	2480.01	4.03	±50

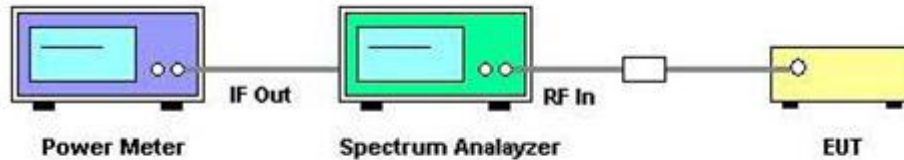
Normal Voltage:





8. Antenna Power

8.1 Block Diagram Of Test Setup



8.2 Limit

Item	Limits
Antenna Power Density	(1) $\leq 3\text{mW/MHz}$ (FH, FH+DS, FH+OFDM form 2400 - 2483.5 MHz) (2) $\leq 10\text{mW/MHz}$ (OFDM OBW < 26MHz, DS, FH other than (1)) (3) $\leq 5\text{mW}$ (OFDM OBW 26-38MHz) (4) $\leq 10\text{mW}$ (Other than (1) & (2)& (3))
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

8.3 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 / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.4 Test procedure

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
- 4 . Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range. The frequency found shall be recorded.
- 5 . Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Calculate antenna power density by the formula below $PD = P / \text{Spread bandwidth}$.
7. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% power range that base on manufacturer declare the conducted power density.

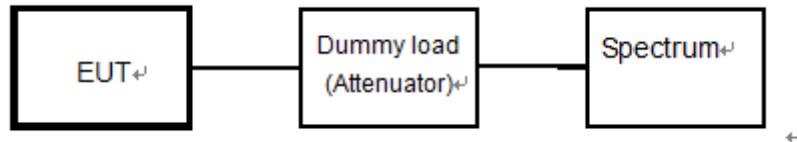
8.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 5V

Normal Voltage	Test Frequency	Conduct ed RF output power	Conducte d RF output power	90% Hopping Occupie d bandwidth	Conducte d RF output power density	Rated power density	Limi t	Antenn a Power Error
		(dBm)	(mW)	(MHz)	(mW/MHz)	(mW/MHz)	(m W/M Hz)	(%)
GFSK	Hopping	0.742	1.19	71.871	0.017	0.02	3	15
Limit : +20%, (Base on manufacturer declare antenna power density) Conducted RF output power density= Conducted RF output power/ 90%Hopping Occupied bandwidth								

9. Occupied Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DS ≤ 26 MHz;Others ≤ 26 MHz
Spreading Bandwidth:	≥ 500 kHz (FH, DS)
Spreading Factor	≥ 5

9.3 Test procedure

1. Setting of SA is following as: RB: 1MHz / VB:1MHz / SPAN: 120MHz / AT: 20dB Ref: 10dBm / 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).

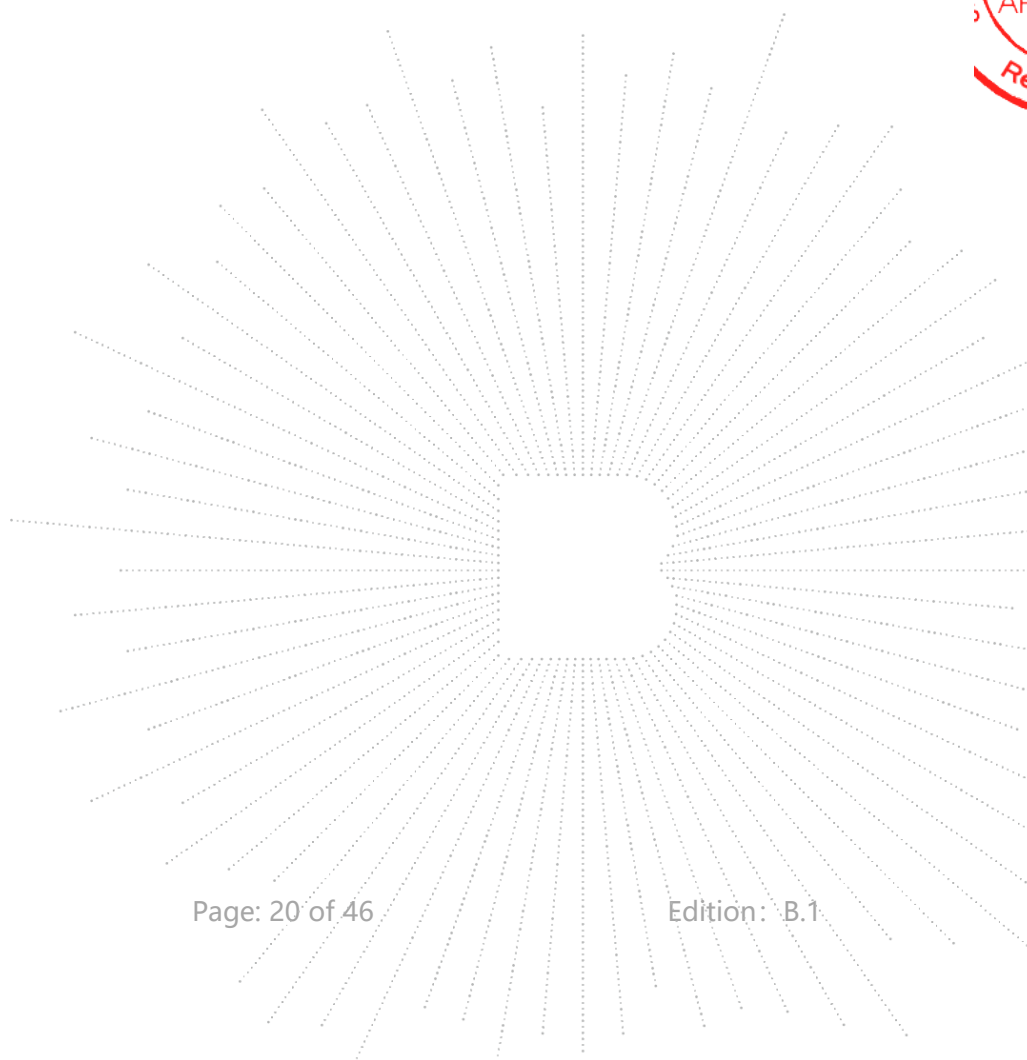
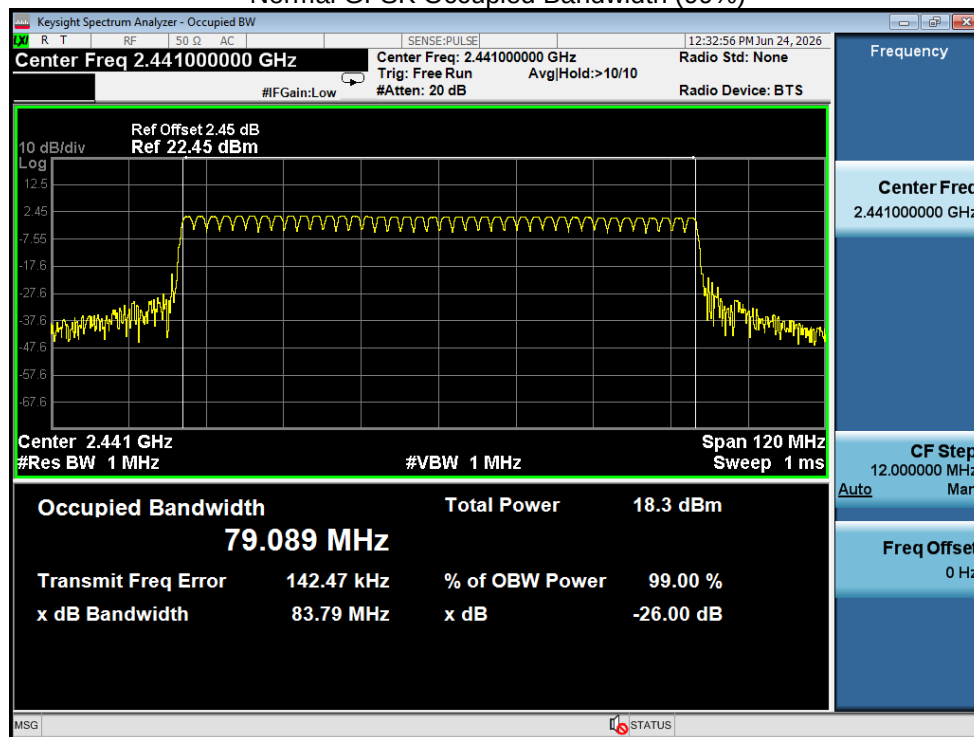
3. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.

9.4 Test Result

Temperature:	26 ⁰ C		
Humidity:	54 % RH	Test Voltage	DC 5V

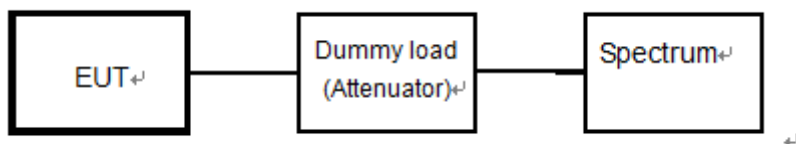
Operation Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
Normal Voltage	GFSK	79.089	Pass

Normal GFSK Occupied Bandwidth (99%)



10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

Item	Limits
TX Spurious Emission	$\leq 0.25 \mu\text{W} (-36\text{dBm})$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W} (-26\text{dBm})$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W} (-16\text{dBm})$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W} (-16\text{dBm})$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W} (-26\text{dBm})$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

10.3 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 / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.4 Test procedure

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: 10dBm / 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 0.25 μ W(-36dBm).

4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W(-26dBm).

5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μ W(-16dBm).

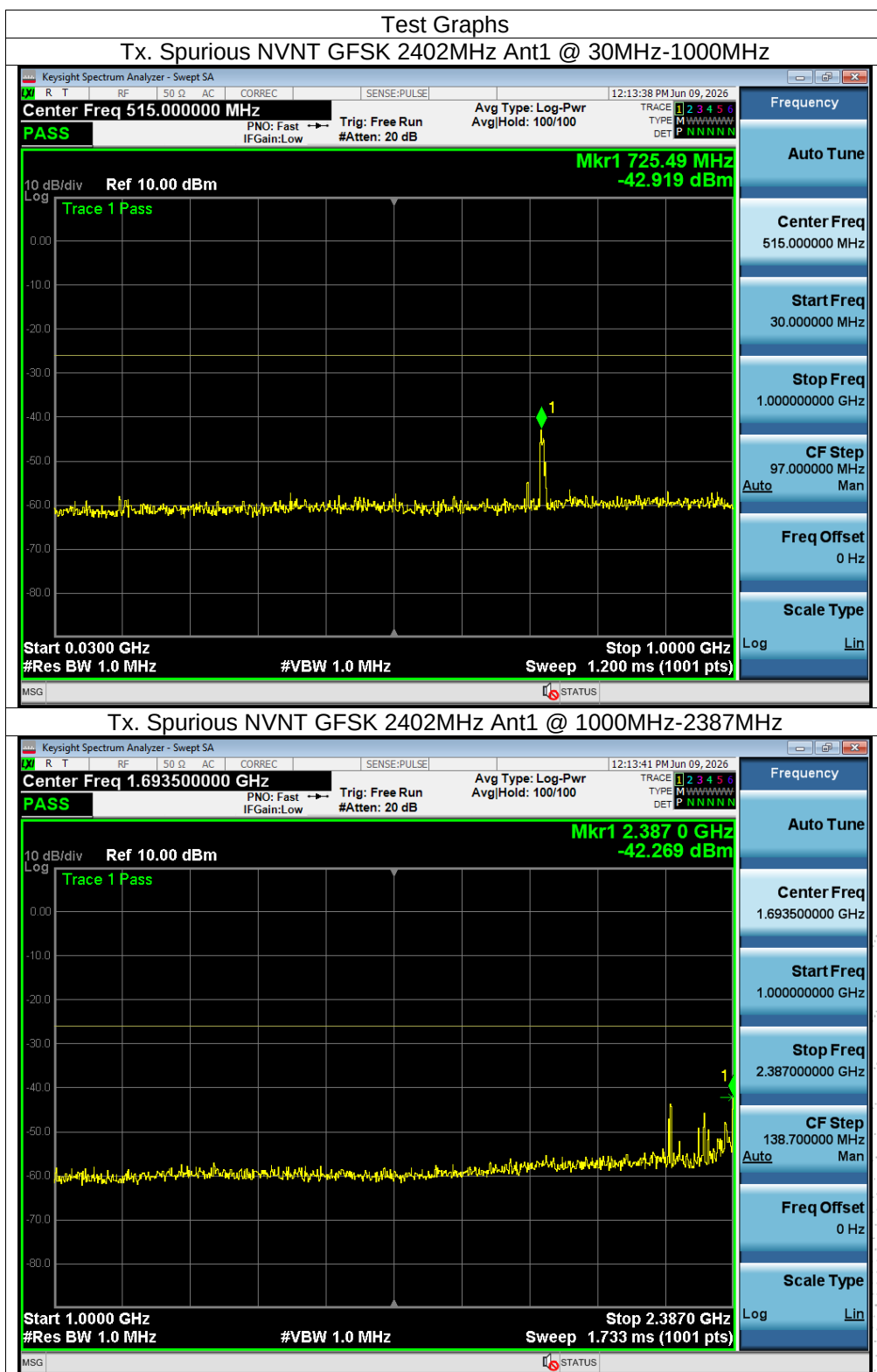
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μ W(-16dBm)

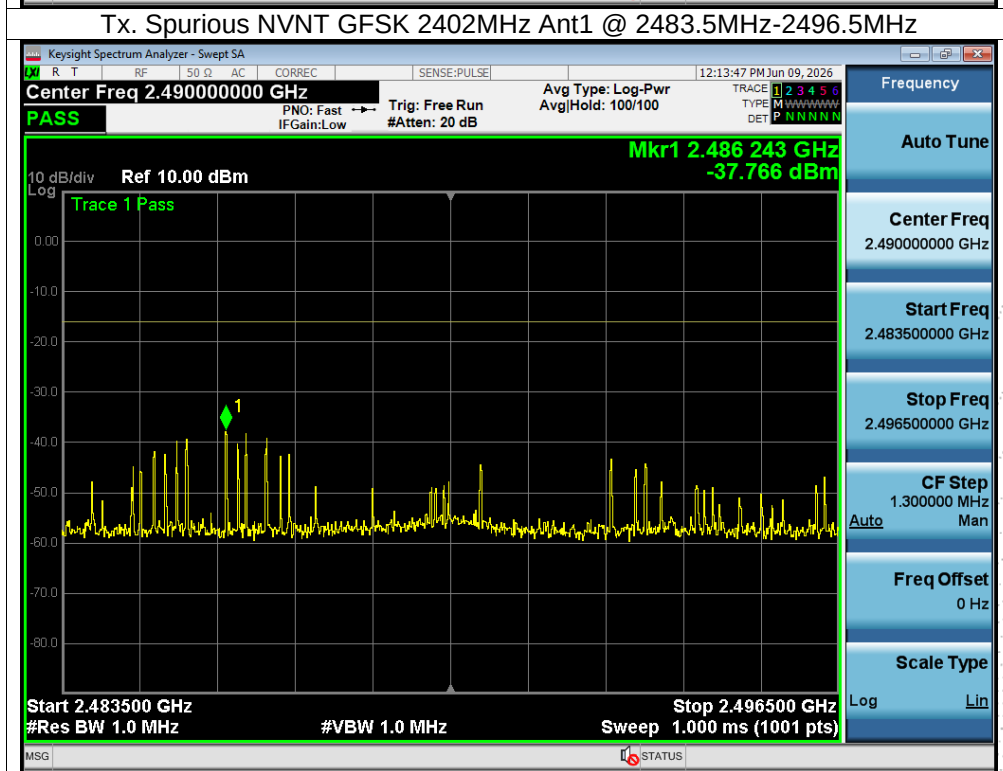
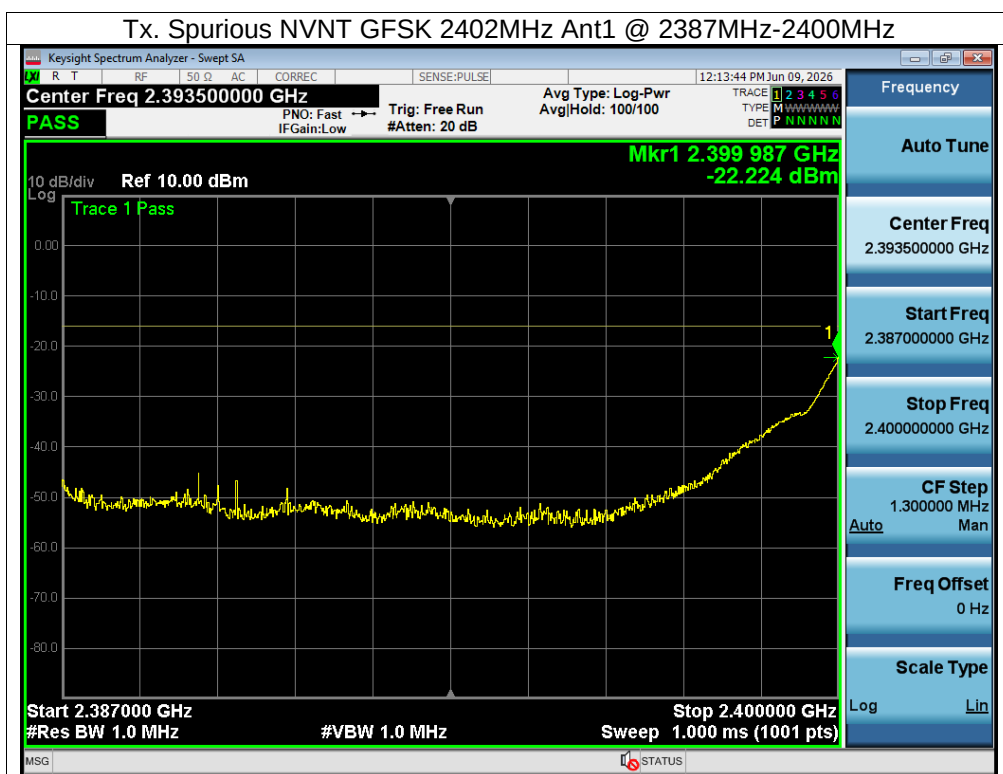
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W(-26dBm)

10.5 Test Result

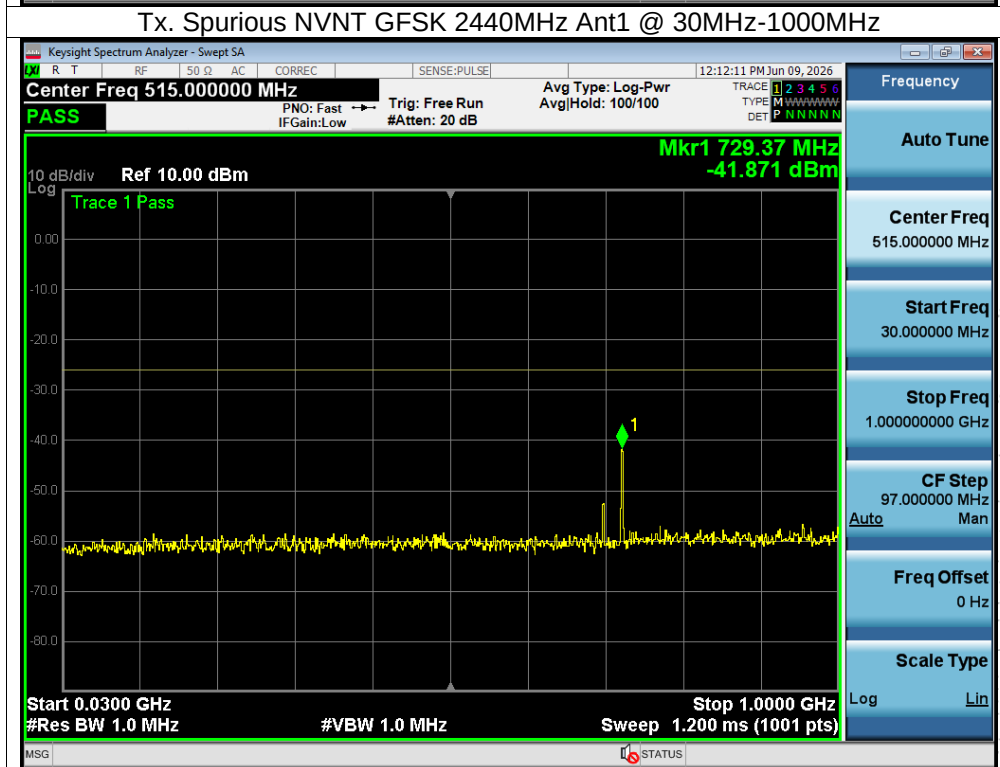
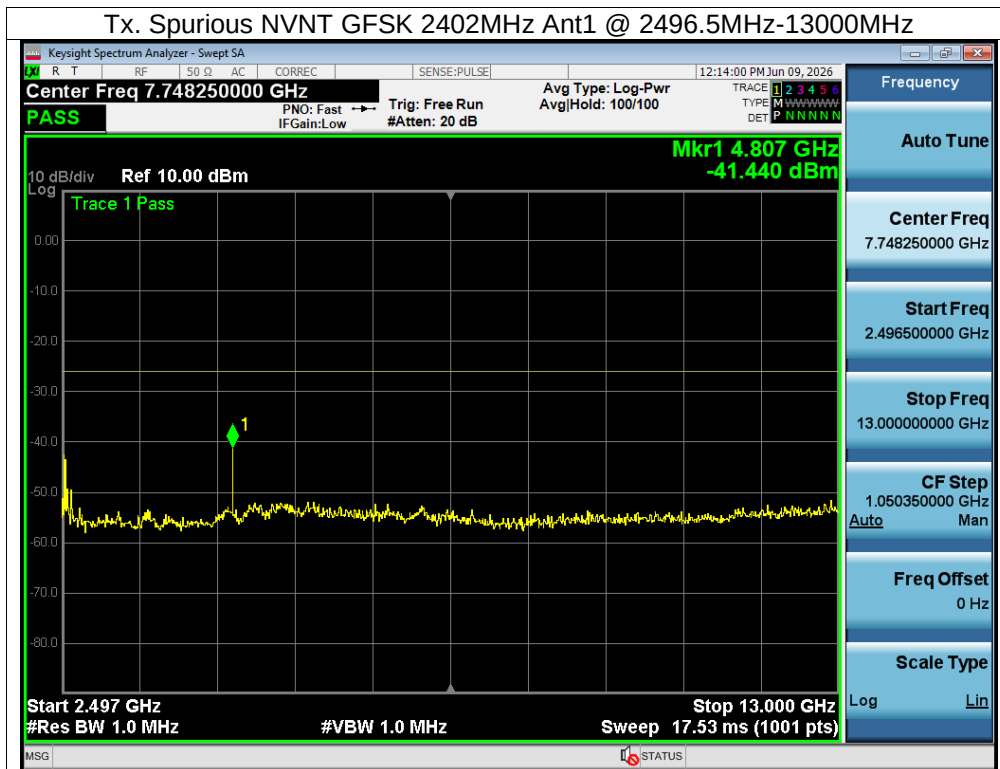
Temperature:	26 ⁰ C		
Humidity:	54% RH	Test Voltage	DC 5V
Operation Mode:	GFSK TX ; Normal Voltage		

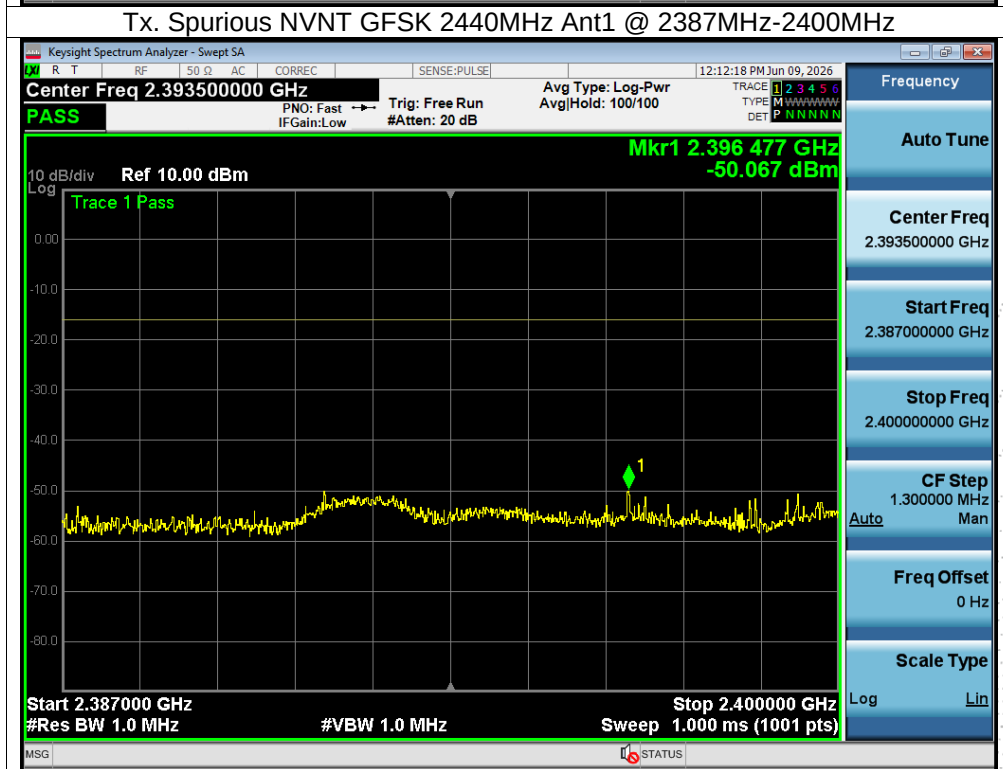
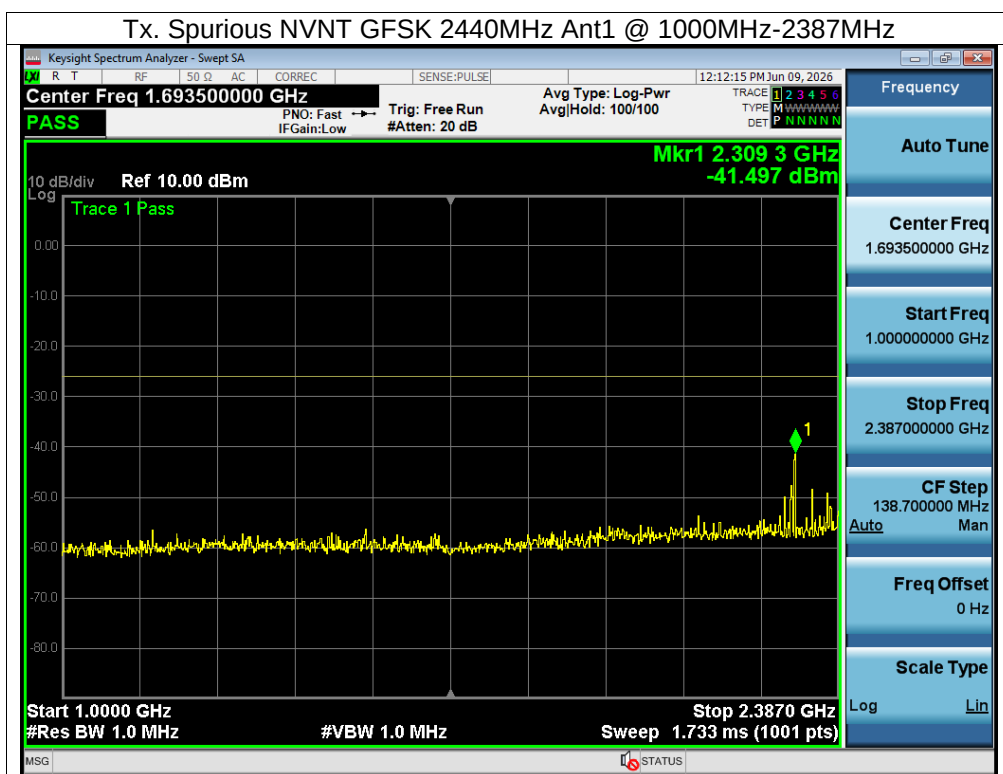
Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (μ W)	Max RMS Value (μ W)	Limit Start(μ W)	Limit Stop (μ W)	Verdict
2402	30-1000	725.49	-42.91	NA	0.0512	NA	2.5	2.5	Pass
2402	1000-2387	2387.00	-42.26	NA	0.0594	NA	2.5	2.5	Pass
2402	2387-2400	2399.99	-22.22	NA	5.9979	NA	25	25	Pass
2402	2483.5-2496.5	2486.24	-37.76	NA	0.1675	NA	25	25	Pass
2402	2496.5-13000	4807.27	-41.43	NA	0.0719	NA	2.5	2.5	Pass
2440	30-1000	729.37	-41.87	NA	0.065	NA	2.5	2.5	Pass
2440	1000-2387	2309.33	-41.49	NA	0.071	NA	2.5	2.5	Pass
2440	2387-2400	2396.48	-50.06	NA	0.0099	NA	25	25	Pass
2440	2483.5-2496.5	2488.10	-47.04	NA	0.0198	NA	25	25	Pass
2440	2496.5-13000	2580.53	-43.12	NA	0.0488	NA	2.5	2.5	Pass
2480	30-1000	728.40	-46.41	NA	0.0229	NA	2.5	2.5	Pass
2480	1000-2387	2373.13	-45.92	NA	0.0256	NA	2.5	2.5	Pass
2480	2387-2400	2395.27	-36.87	NA	0.2056	NA	25	25	Pass
2480	2483.5-2496.5	2483.50	-38.93	NA	0.1279	NA	25	25	Pass
2480	2496.5-13000	2496.50	-41.59	NA	0.0693	NA	2.5	2.5	Pass

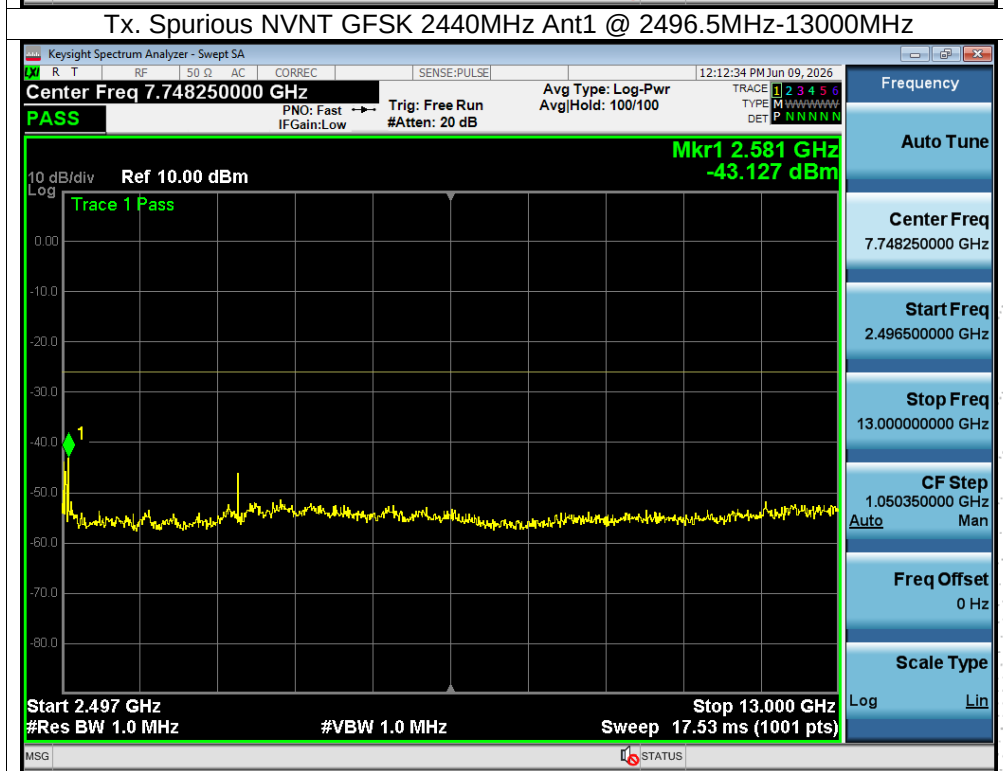
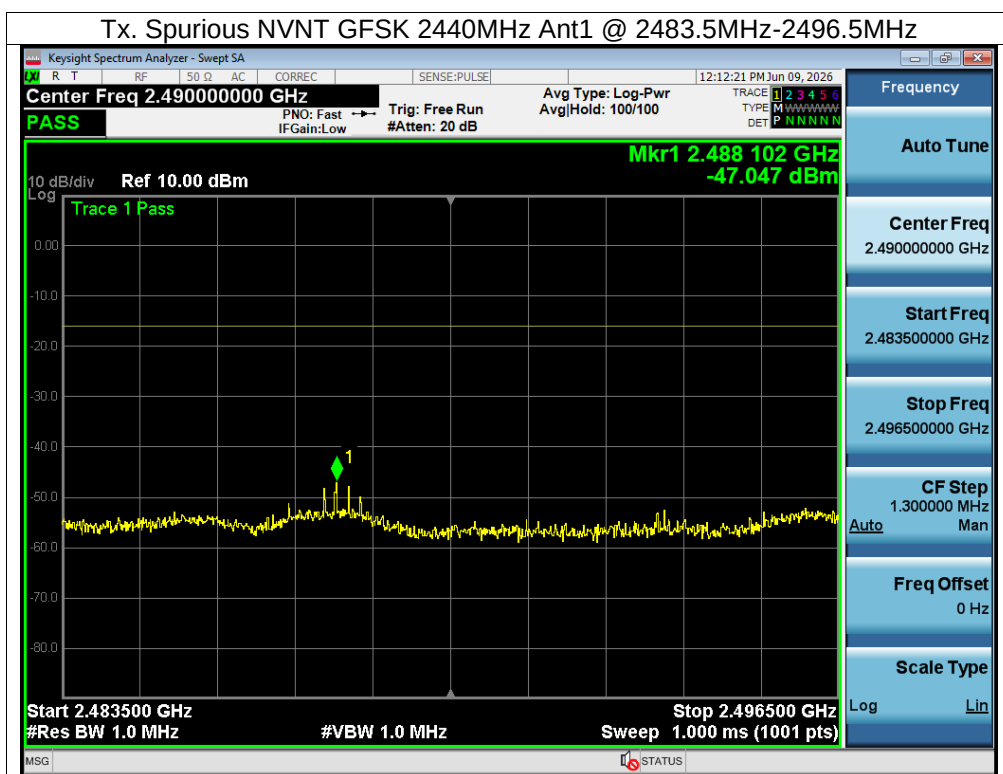


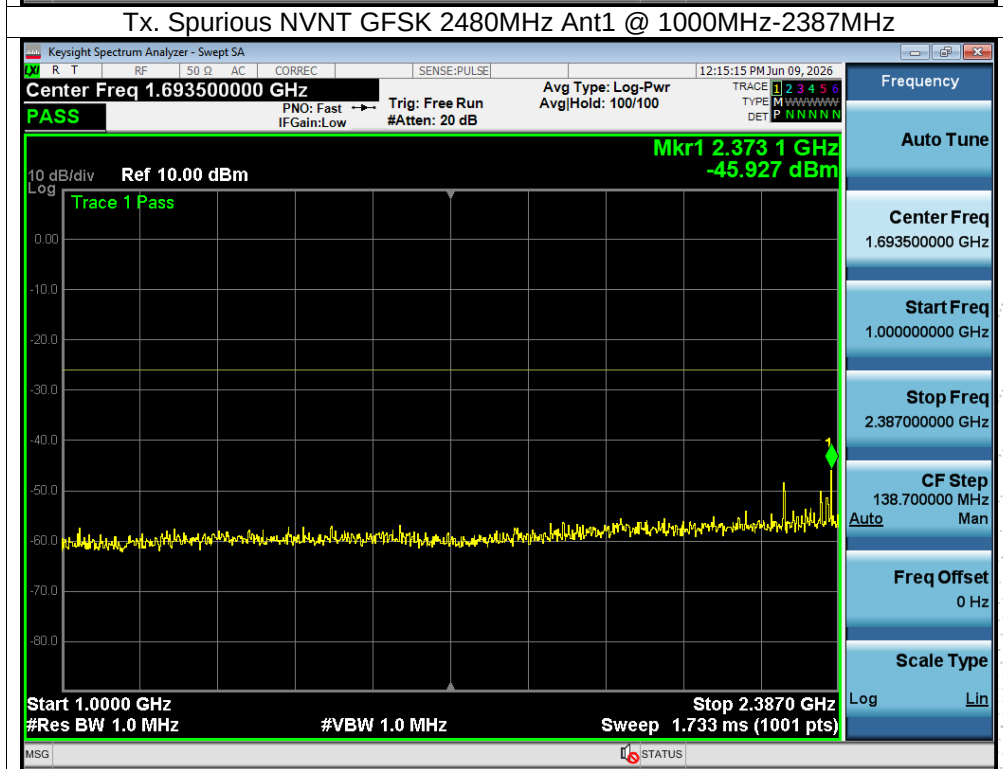
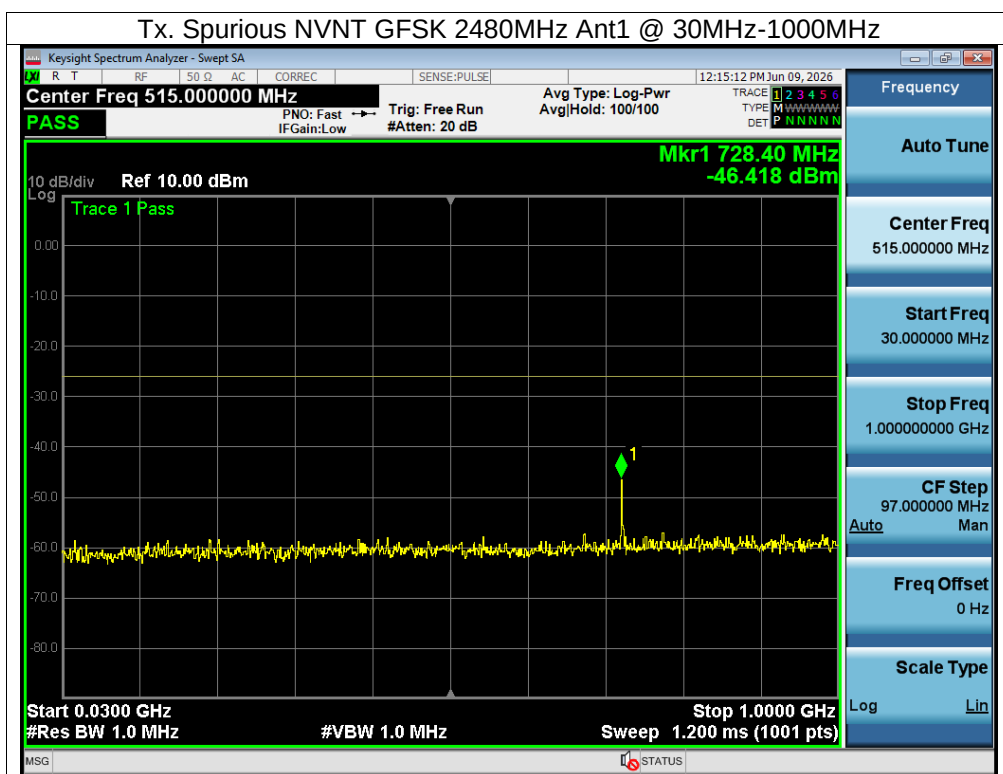


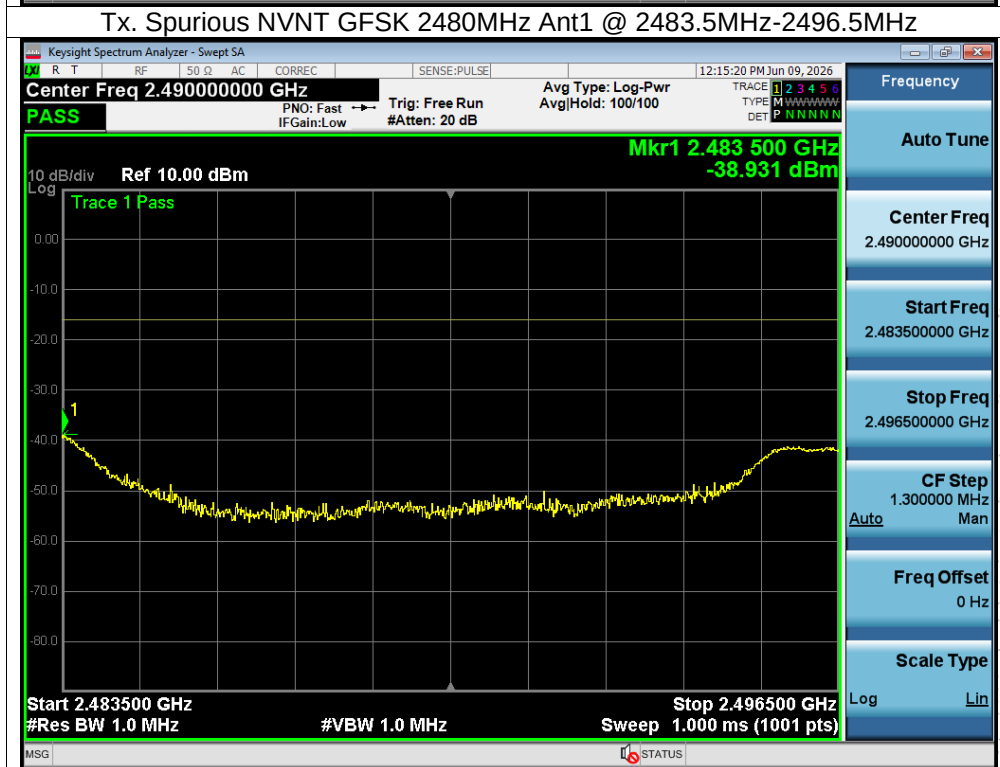
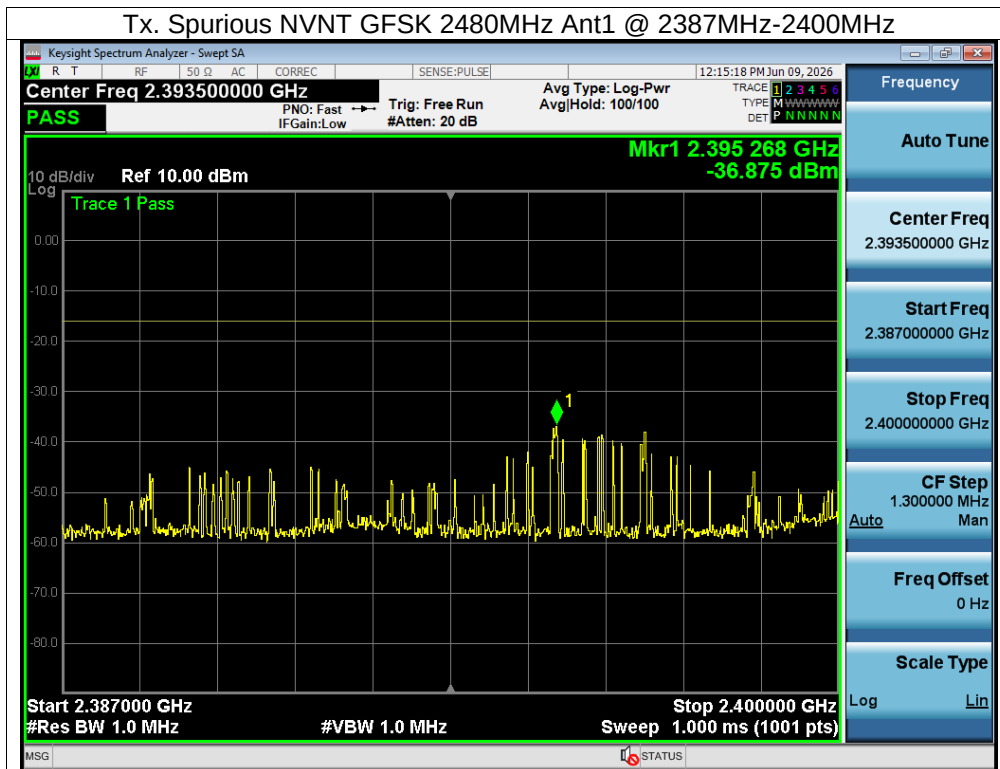
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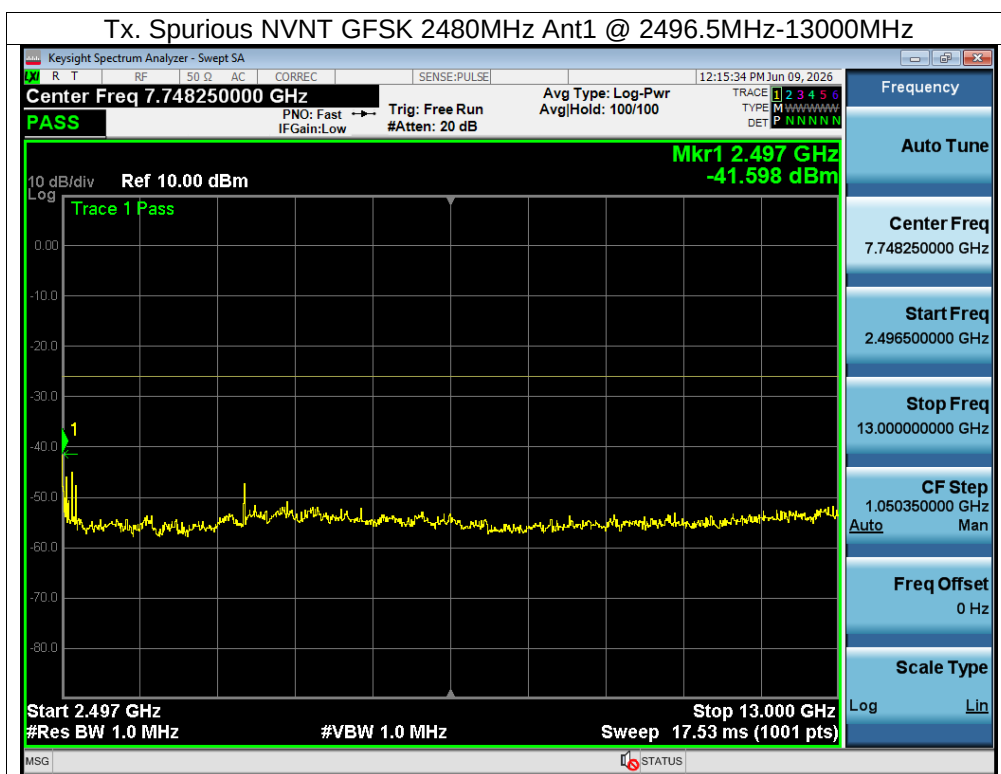






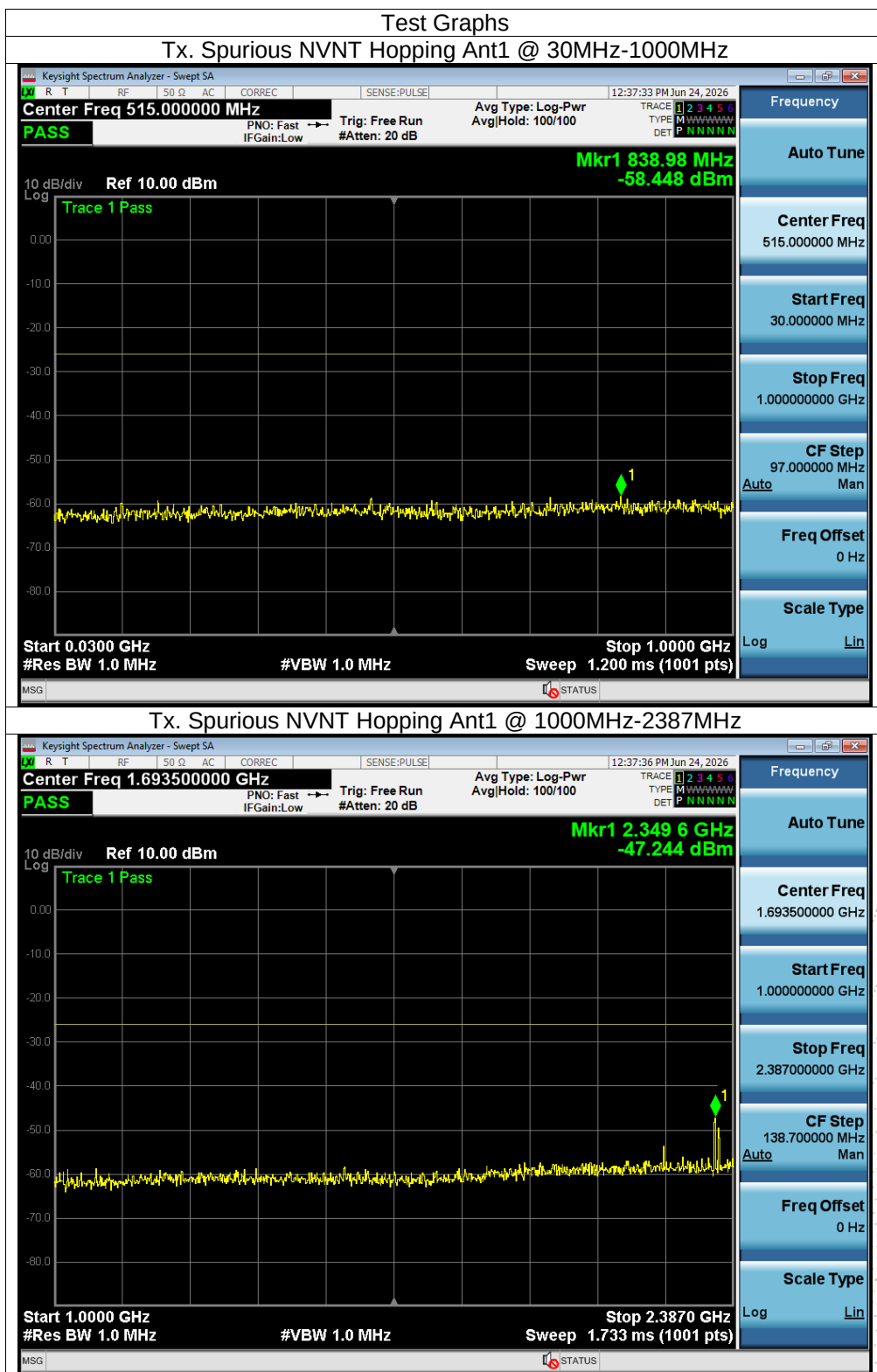


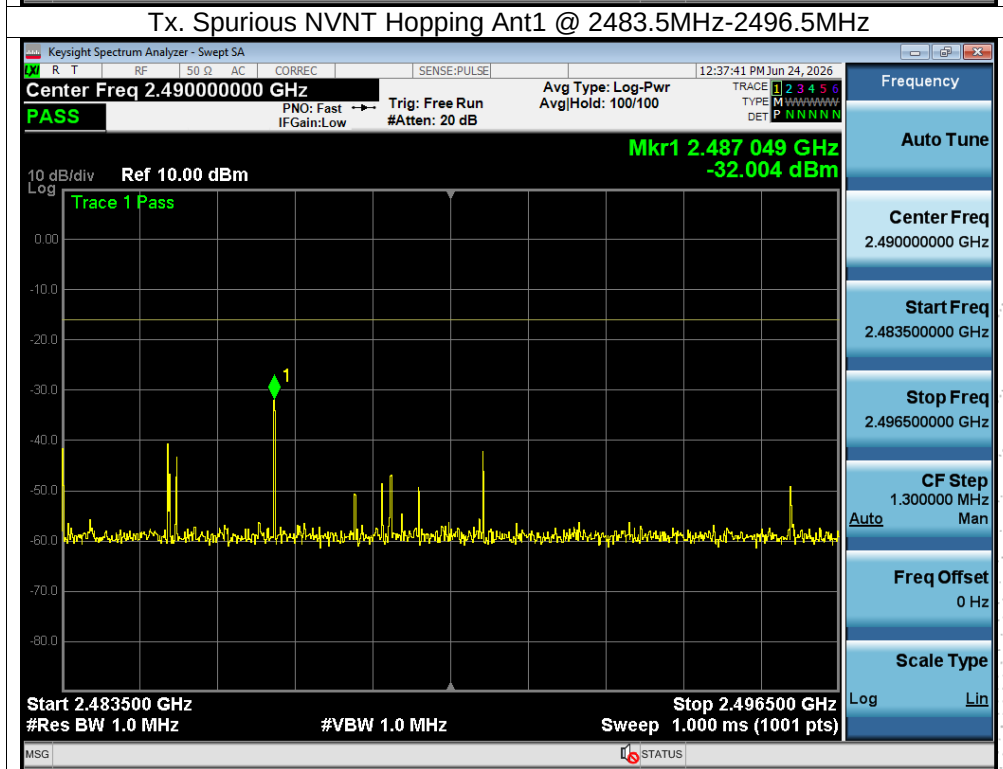
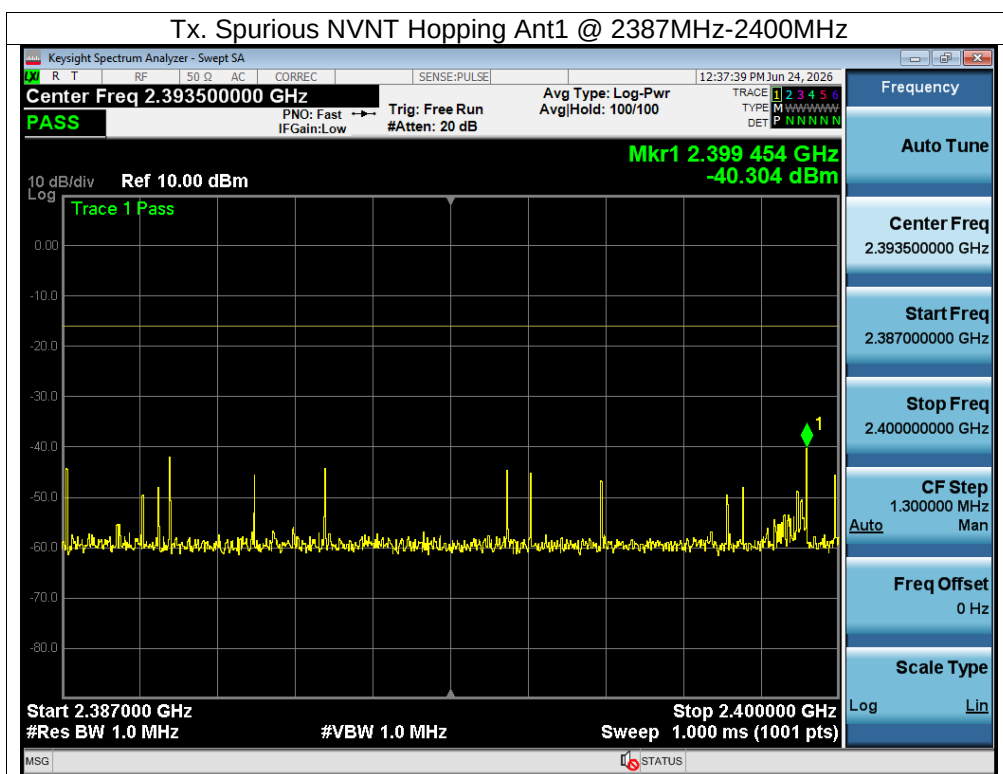


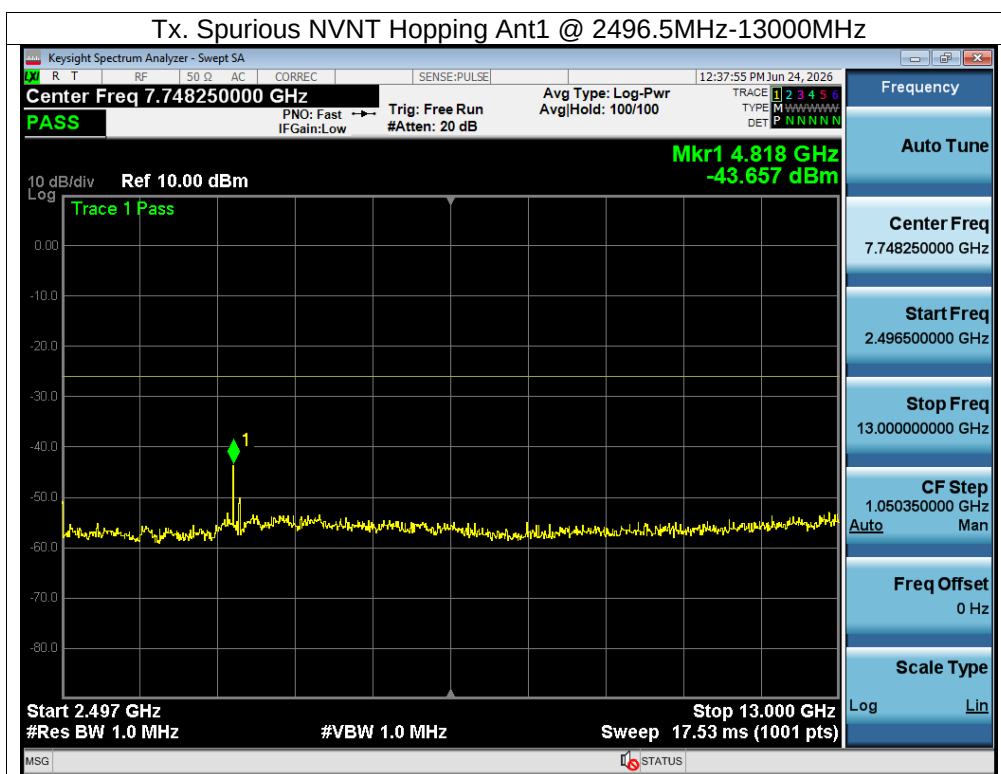


Temperature:	26 ⁰ C		
Humidity:	54% RH	Test Voltage	DC 1.5V
Operation Mode:	Hopping TX ; Normal Voltage		

Condition	Mode	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	Hopping	30-1000	838.98	-58.44	NA	0.0014	NA	2.5	2.5	Pass
NVNT	Hopping	1000-2387	2349.55	-47.24	NA	0.0189	NA	2.5	2.5	Pass
NVNT	Hopping	2387-2400	2399.45	-40.30	NA	0.0933	NA	25	25	Pass
NVNT	Hopping	2483.5-2496.5	2487.05	-32.00	NA	0.631	NA	25	25	Pass
NVNT	Hopping	2496.5-13000	4817.77	-43.65	NA	0.0432	NA	2.5	2.5	Pass



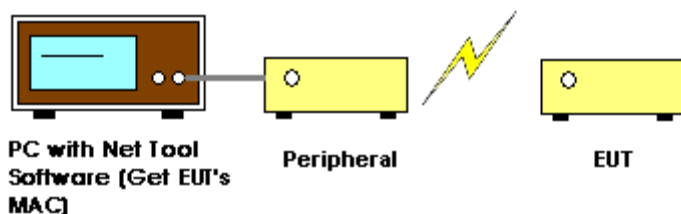




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11. Radio Interference Prevention Capability Measurement

11.1 Block Diagram Of Test Setup



11.2 Limit

Item	Limits
Identification code	≥ 48 bits

11.3 Measuring Instruments And Setting

Item	Limits
MAC IP List	MAC Scan

11.4 Test procedure

- In the case that the EUT has the function of automatically transmitting the identification code:
 - Transmit the predetermined identification codes from EUT.
 - Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code:
 - Transmit the predetermined identification codes from the counterpart.
 - Check if communication is normal.
 - Transmit the signals other than predetermined ID codes from the counterpart.
 - Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

11.5 Test Result

Temperature:	25°C		
Humidity:	55 % RH	Test Voltage:	DC 5V
Operation Mode:	GFSK		

The device communicates only with the paired counterpart using a unique identification code (48-bit or more), and rejects other signals. **PASS**

12. Dwell Time

12.1 Block Diagram Of Test Setup



12.2 Limit

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

12.3 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 Hz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

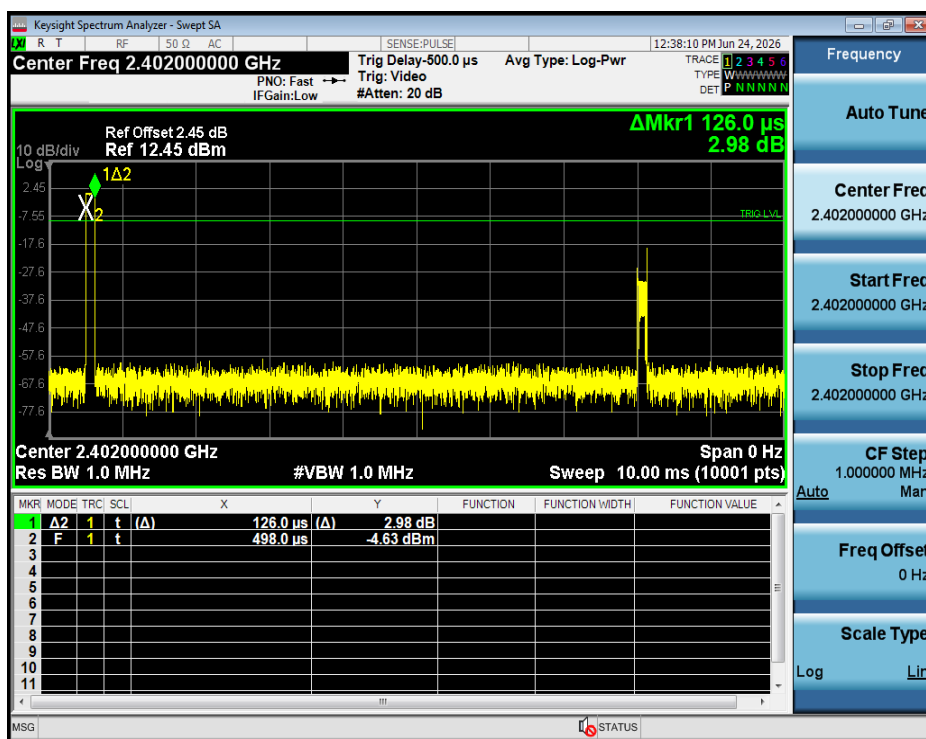
12.4 Test procedure

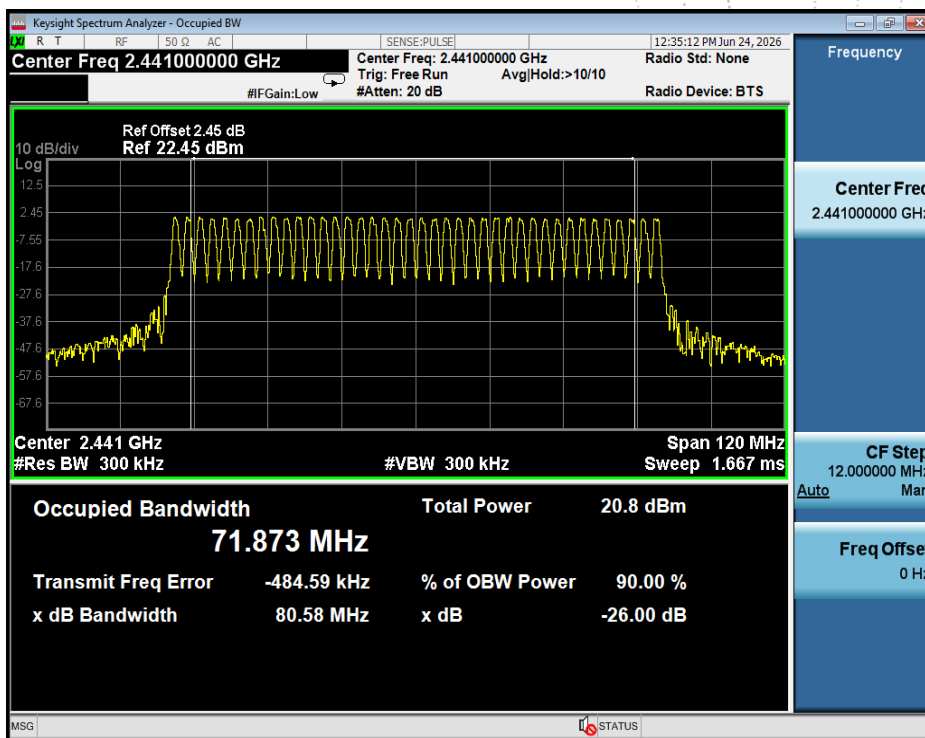
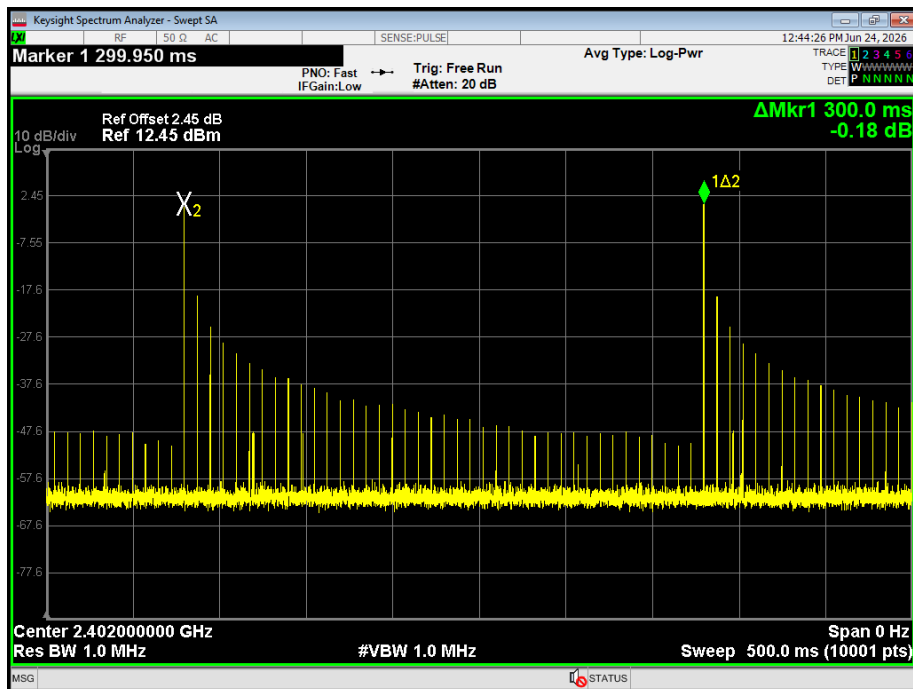
1. The transmitter output (antenna port) was connected to the spectrum analyzer
2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
3. Use a video trigger with the trigger level set to enable triggering only on full pulses.
4. Sweep Time is more than once pulse time.
5. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
6. Measure the maximum time duration of one single pulse.
7. Set the EUT for GFSK packet transmitting.
8. Measure the maximum time duration of one single pulse.
9. Dwell time = [spreading rate/79] x duty-cycle x 0.4 seconds. (to be determined for each mode, GFSK)

12.5 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage:	DC 5V
Test Mode:	GFSK		

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(ms)	(ms)
GFSK	71.873	0.126	300	0.00042	0.153	400



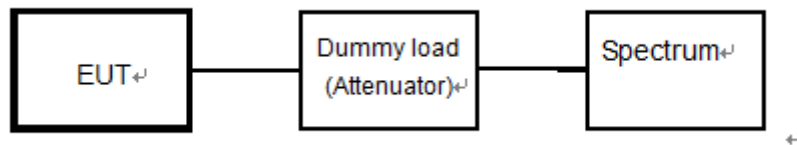


13. Carrier Sense

Not applicable, Since the EUT belong to 2.4GHz frequency hopping

14. Imitation Of Collateral Emission Of Receiver Measurement

14.1 Block Diagram Of Test Setup



14.2 Limit

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

14.3 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

14.4 Test procedure

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: 6dB / Ref: -20dBm / 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.

14.5 Test Result

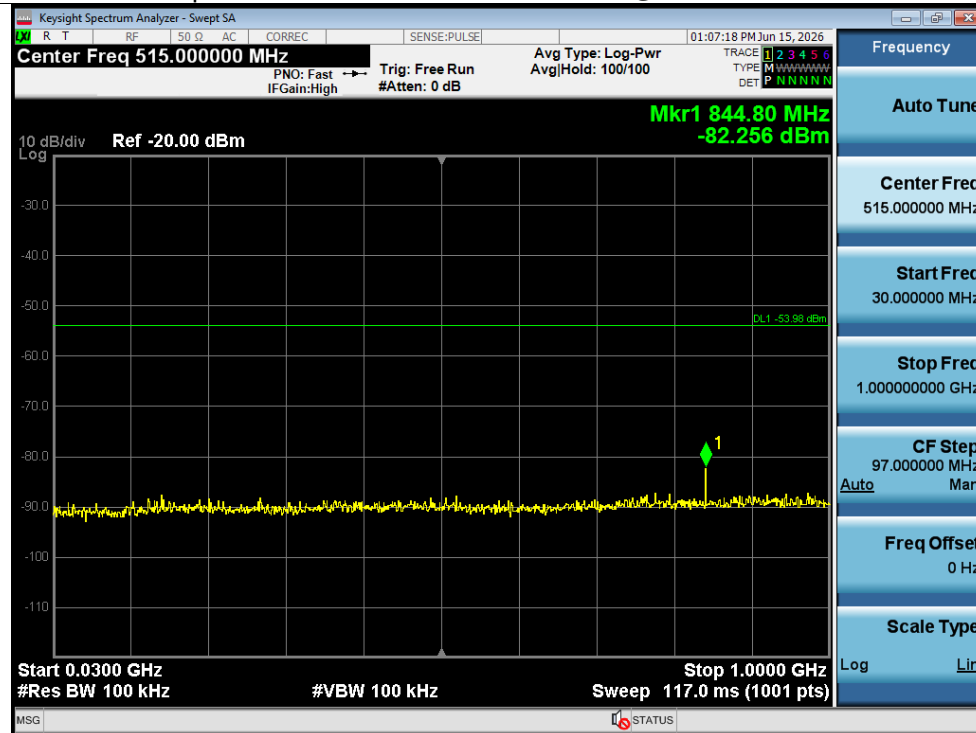
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage:	DC 1.5V
Test Mode:	GFSK		

Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
2402	30-1000	844.80	-82.26	NA	0.0059	NA	4	Pass
2402	1000-13000	1948.00	-61.69	NA	0.6776	NA	20	Pass
2440	30-1000	705.12	-66.37	NA	0.2307	NA	4	Pass
2440	1000-13000	1924.00	-59.48	NA	1.1272	NA	20	Pass
2480	30-1000	729.37	-59.27	-91.11	1.183	0.0008	4	Pass
2480	1000-13000	1924.00	-60.27	NA	0.9397	NA	20	Pass

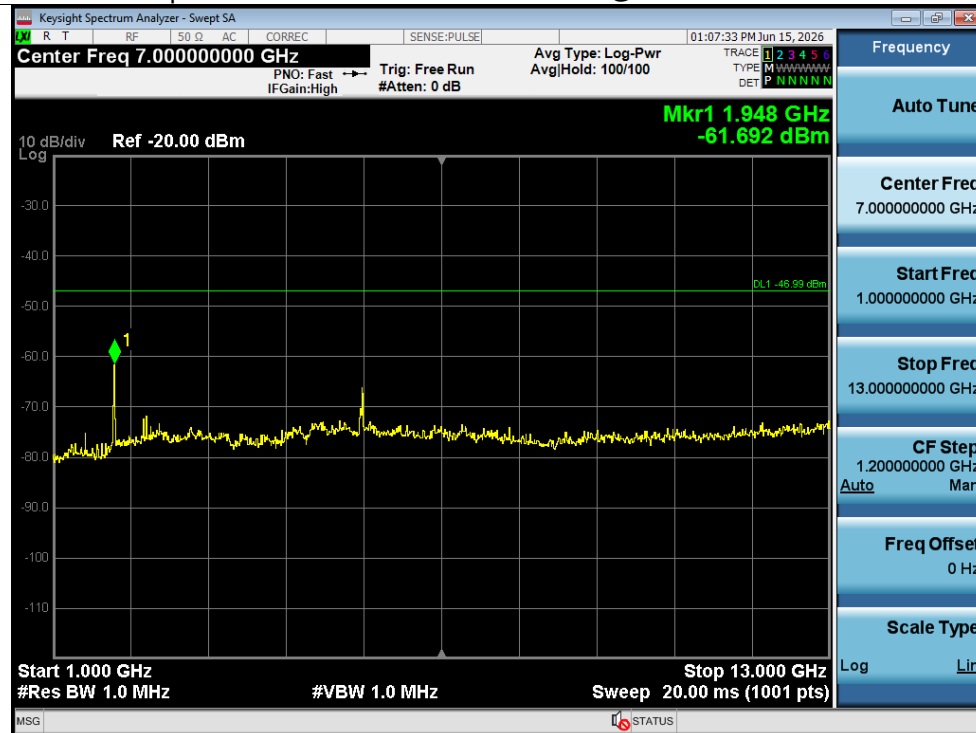


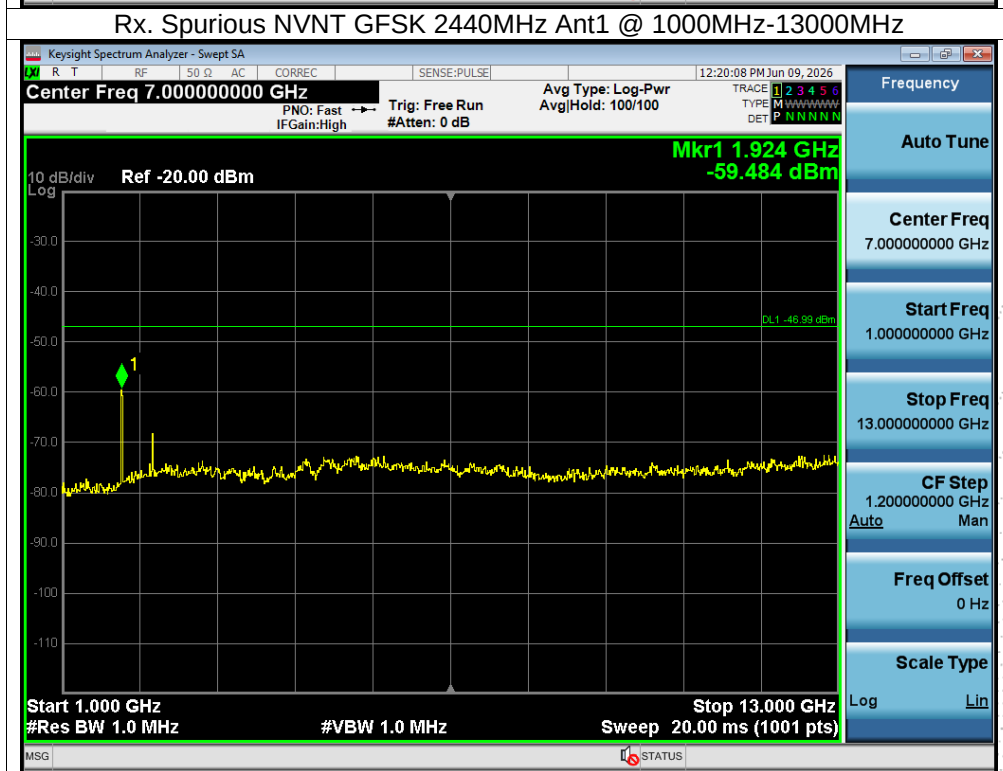
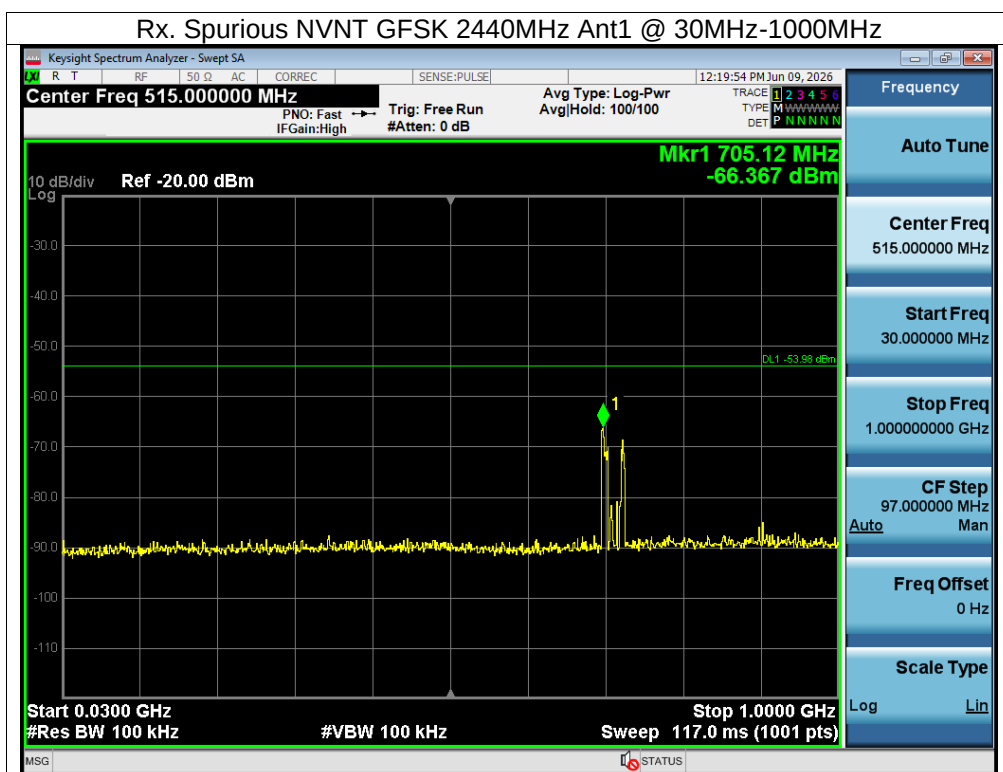
Test Graphs

Rx. Spurious NVNT GFSK 2402MHz Ant1 @ 30MHz-1000MHz

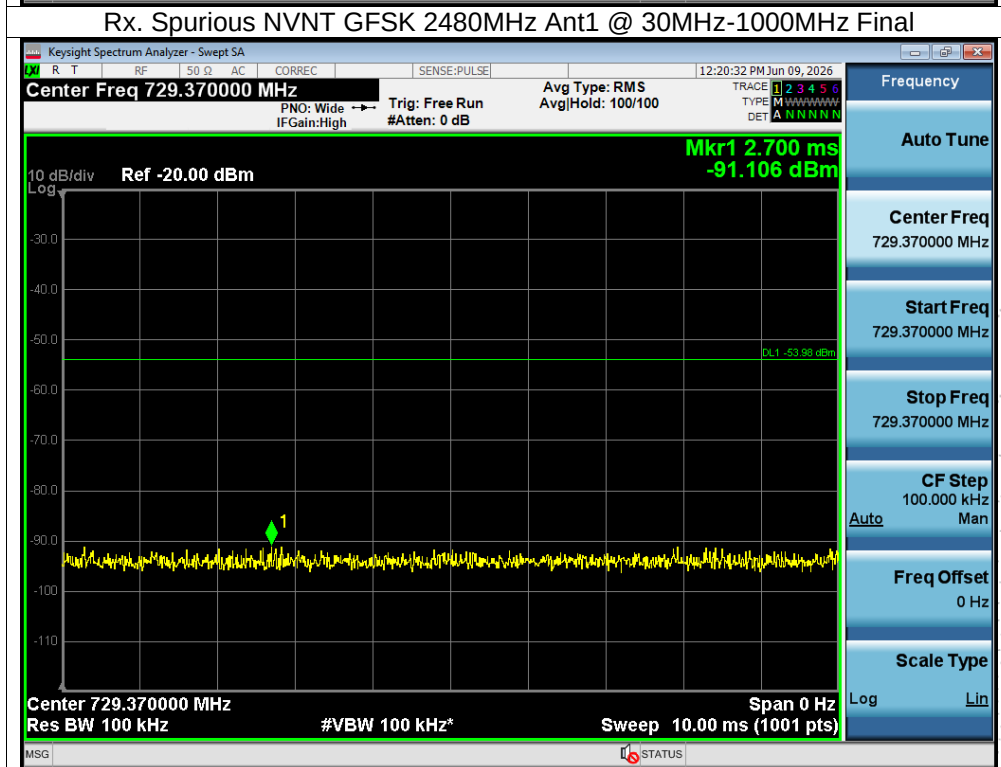
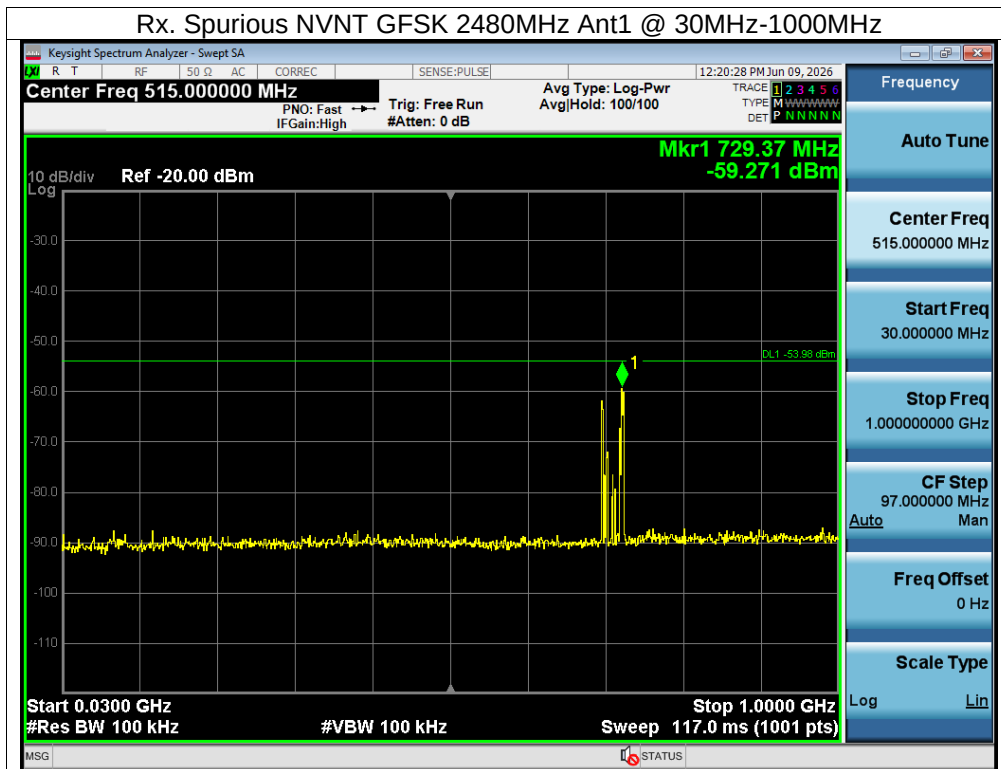


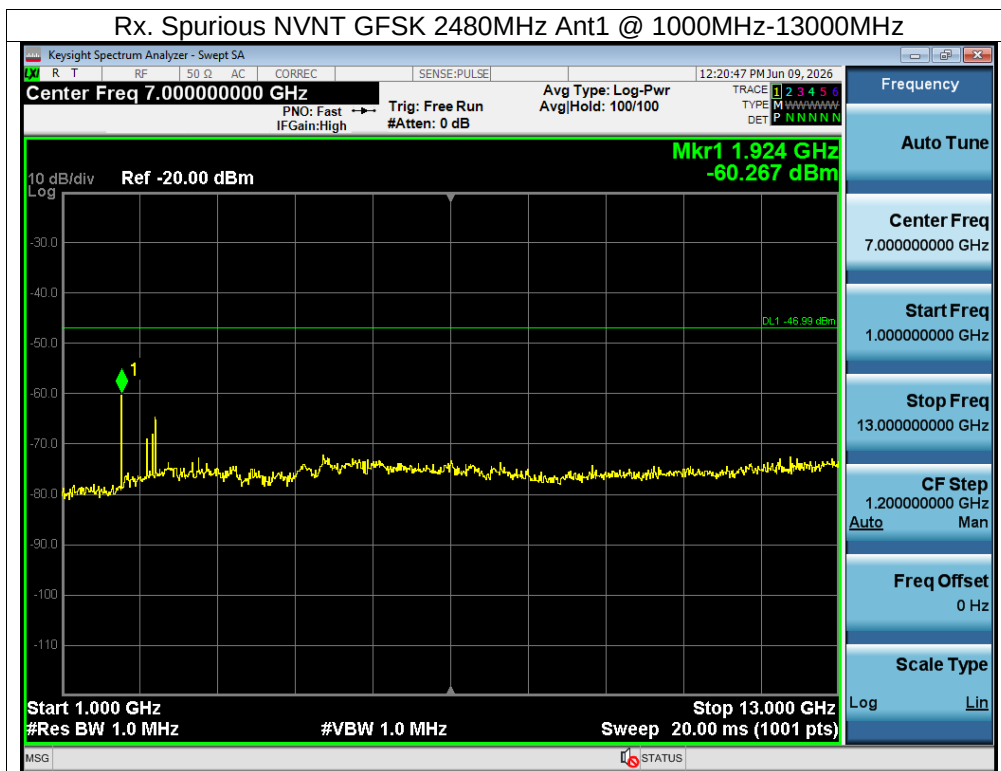
Rx. Spurious NVNT GFSK 2402MHz Ant1 @ 1000MHz-13000MHz





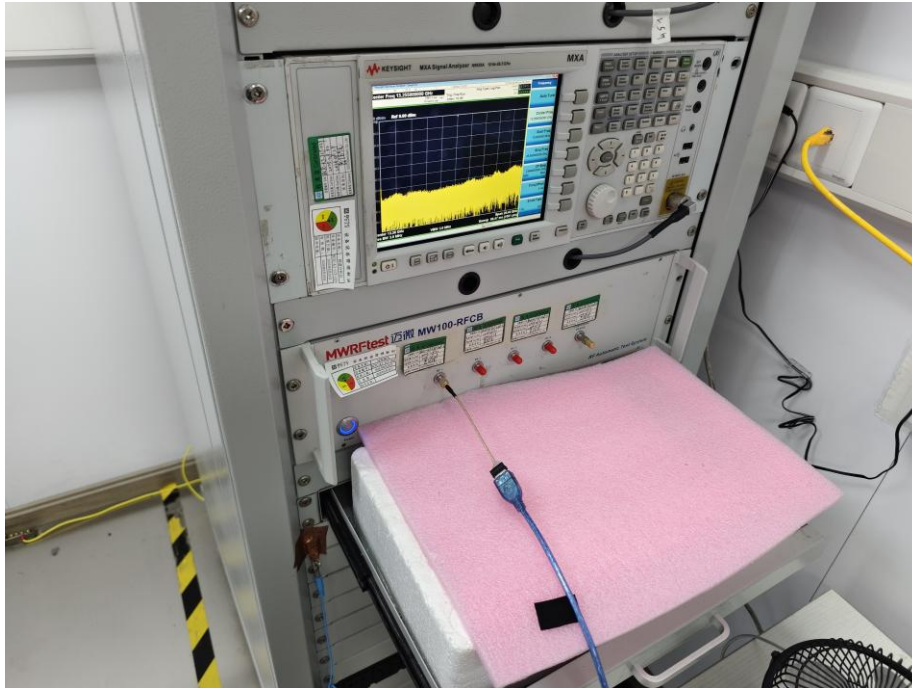
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15. EUT Test Setup Photographs

Measurement Photos



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STATEMENT

1. The equipment lists are traceable to the International System of Units (SI)
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC 17025:2017.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518116

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****

