TEST REPORT
Specific Wireless Devices

for

Products Name: 4K Ultra HD Blu-ray Disc Player

Model No.: KBU-300, KBU-300Pro

Report No.: SST2601E0150

Issued Date: 2026-1-22

Issued for

Krovatar Technology (Shenzhen) CO.,LTD

Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen, Guangdong, P.R.China

Issued by

Dongguan Qiyang Testing Technology Co., Ltd.

Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

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Table of Contents

1. BASIC INTRODUCTION 3
2. GENERAL DESCRIPTION 4
   2.1. EUT DESCRIPTION 4
   2.2. SERIAL MODEL(S) AND MODEL DIFFERENCE 4
   2.3. AUXILIARY EQUIPMENT 4
   2.4. DESCRIPTION OF TEST MODES AND CONDITION 5
   2.5. TEST ENVIRONMENTAL CONDITIONS 6
   2.6. STATEMENT OF MEASUREMENT UNCERTAINTY 6
   2.7. REPORT MODIFICATION RECORD 6
   2.8. TEST FACILITY 6
   2.9. ADDITIONAL INSTRUCTION 6
   2.10. OTHER INFORMATION 7
3. VERDICT SUMMARY SECTION 8
4. LIST OF TEST EQUIPMENT 9
5. TECHNICAL REQUIREMENT AND MEASUREMENT DATA 10
   5.1. CABINET 10
   5.2. ANTENNA POWER 11
   5.3. FREQUENCY TOLERANCE 12
   5.4. OCCUPIED BANDWIDTH 13
   5.5. SPURIOUS EMISSION INTENSITY 14
   5.6. SECOND RADIATED EMISSION 15
   5.7. INTERFERENCE PREVENTION FUNCTION 16
   5.8. EQUIVALENT ISOTROPIC RADIATED POWER 17
6. TEST SETUP PHOTO 18
7. PHOTO OF THE EUT 19
8. TEST RESULT 20

1. Basic Introduction

Applicant's name..... :	Krovatar Technology (Shenzhen) CO.,LTD	
Address ..... :	Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen, Guangdong, P.R.China	
Manufacturer's name ..... :	Krovatar Technology (Shenzhen) CO.,LTD	
Address ..... :	Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen, Guangdong, P.R.China	
Factory's name ..... :	Shenzhen Maxmade Technology Co., Ltd.	
Address ..... :	6-8F, Building 2, No. 26 Puzai Road, Pingdi, Longgang District, Shenzhen, China	
Products Name..... :	4K Ultra HD Blu-ray Disc Player	
Model No..... :	KBU-300, KBU-300Pro	
Trade Mark ..... :	Krovatar	
Rating(s)..... :	Adapter Model: KA1801A-1201500JP Input: AC 100-240V, 50/60Hz, 0.55A max Output: DC 12V, 1500mA	
Date of sample receipt..... :	2025-12-18	
Date of Test..... :	2025-12-18~2026-1-20	
Standard(s) ..... :	Article 2 paragraph 1 item(19) MIC Notice No.88 Annex 1 MIC Notice No.88 Annex 43	
Tested by (+signature)..... :	Connor Ma	Connor Ma
Check by (+signature)..... :	Davis Zhou	Davis Zhou
Approved by (+signature).... :	Tiger Chen	Tiger Chen

DONGGUAN QIYANG TESTING TECHNOLOGY CO.,LTD.

2. General description

2.1. EUT description

Products Name .....:	4K Ultra HD Blu-ray Disc Player			
Model No. .....:	KBU-300, KBU-300Pro			
Rating(s) .....:	Adapter Model: KA1801A-1201500JP Input: AC 100-240V, 50/60Hz, 0.55A max Output: DC 12V, 1500mA			
Software version.....:	KBU300 V1.1			
Hardware version .....:	MBD3251UDC-M-8581			
Operation frequency.....:	2402MHz ~ 2480MHz			
Channel numbers .....:	40			
Modulation technology ....:	GFSK			
Antenna type .....:	FPC antenna			
Antenna Gain .....:	1.93 dBi			
Cable .....:	**Port(s)**	**Specified length in (m)**	**Attached during test**	**Shielded**
	/	/	☐	☐

2.2.Serial model(s) and model difference

Main model(s) .....:	**KBU-300**
Serial model(s) .....:	**KBU-300Pro**
Model difference .....:	**All models were in same PCB layout and internal structure, the only difference is model name for commercial purpose**

2.3.Auxiliary equipment

Support equipment list			
Description	**Manufacturer**	**Model No.**	**Serial No.**
PC	HP	Zhan 66P	/
Support cable list			
Description	**Specified length(m)**	**Shielded**	**Unshielded**
USB-A cable	0.8	☐	☐

2.4. Description of test modes and condition

Mode 1	Continuously transmit		
Mode 2	Receiver status		
Temperature(℃):	23.9		
Humidity (%):	53		
Atmospheric pressure:	100.9kPa		
Condition	Input : AC power(V)	Output : DC power(V)	Voltage Variation (%)
Normal voltage	100	4.189 (G1)	-
Low voltage (-10%)	90	4.189 (G2)	0
High voltage (+10%)	110	4.189 (G3)	0

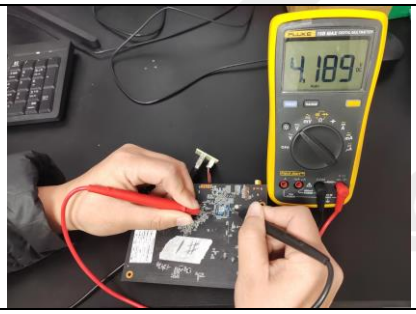
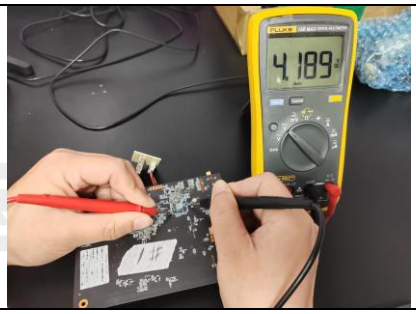
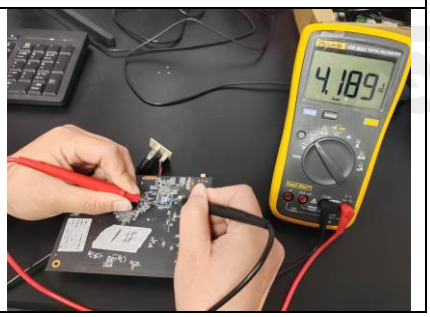
Note:

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 tests, EUT only operated in normal voltage to test all regulation.

G1	G2	G3
		

2.5.Test environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:		
Ambient temperature	**Relative humidity**	**Atmospheric pressure**
15 °C ~ 35 °C	30 % ~ 60 %	86 kPa ~ 106 kPa
If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.		

2.6.Statement of Measurement Uncertainty

Test Item	**Uncertainty**
Uncertainty for Conducted emissions	3.31 dB
Uncertainty for Radiated emission (30 MHz to 1 GHz)	4.53 dB
Uncertainty for Radiated emission (above 1 GHz)	4.80 dB
RF power, conducted	1.08 dB
Power Spectral Density, Conducted	1.46 dB
Spurious Emissions, Conducted	2.94 dB
Measurement Uncertainty Decision Rule Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.	

2.7.Report modification record

Report No.	**Issue Date**	**Description**
SST2601E0150	2026-1-22	Original Report

2.8.Test Facility

The test facility is recognized, certified, or accredited by the following organizations:	
CNAS	Registration No.: L17883
Location	Dongguan Qiyang Testing Technology Co., Ltd. Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

2.9.Additional Instruction

Test Software	BlueTest 3.3.3
Power level setup	Default

2.10. Other information

The laboratory responsible for all the information provided in the report, except those information provided by the applicant.

The applicant shall fully responsible for the information they provided.

The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver.

The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received.

Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

3. Verdict summary section

Requirement – Test case	Result
RF shielding method	Pass
Tolerance of Frequency	Pass
Antenna Power	Pass
Occupied bandwidth	Pass
Spurious Emissions Intensity	Pass
Secondary radiated emissions	Pass
Interference suppression	Pass
Transmission Antenna Gain	N/A, EIRP less than 12.14 dbm
Transmission Radiation Angle Width(3dB Beam width)	N/A, EIRP less than 12.14 dbm

Test case verdicts	
- Test case does not apply to the test object	N/A
- Test object does meet the requirement	P (Pass)
- Test object does not meet the requirement	F (Fail)

4. List of Test Equipment

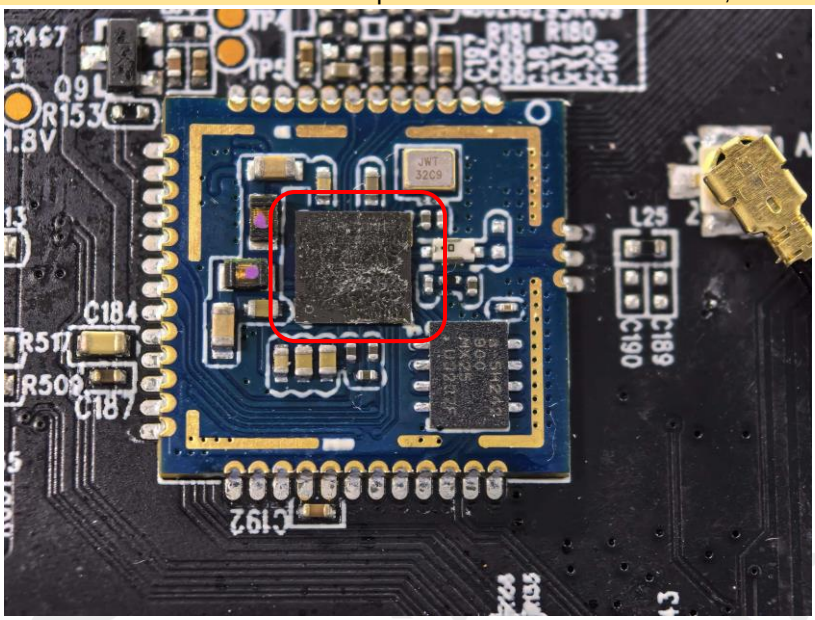
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
RF conducted					
Spectrum Analyzer	keysight	N9020A	MY51280659	2025/04/16	2026/04/16
Signal Generator	Agilent	N5181A	MY48180054	2025/04/16	2026/04/16
Signal Generator	keysight	N5172B	MY57281610	2025/04/16	2026/04/16
Spectrum Analyzer	R&S	FSV40-N	101791	2025/04/16	2026/04/16
Wideband Radio Communication Tester	R&S	CMW500	123123	2025/04/16	2026/04/16
RF Switch Box	TST PASS	TST V2	/	2025/04/16	2026/04/16
Thermohygrometer	KTJ	TA218A	879032	2025/04/20	2026/04/20
DC power supply	Lodestar	LPS6010D	LP2303371	/	/
Temperature and humidity chamber	Guangdong fenghe	FH-TH-1000	FH24032017	2025/04/26	2026/04/26
Test Software	TST PASS	TST PASS	V2.0	/	/

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 Articles 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

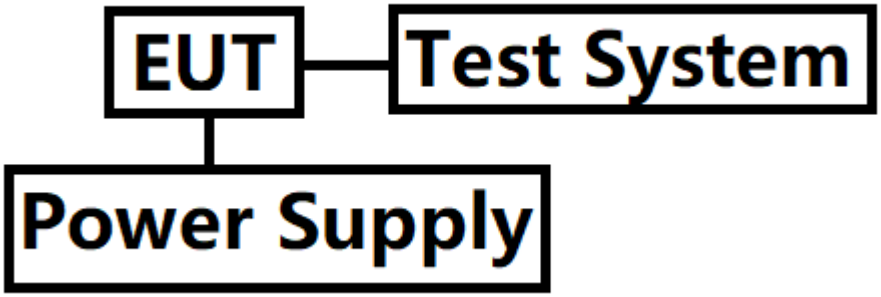
5. Technical Requirement and Measurement Data

5.1. Cabinet

Requirement:
The radio equipment used shall be housed in a single cabinet that cannot be readily opened.
Protection method: The radio part was embedded on board, RF IC is BGA-pakcked



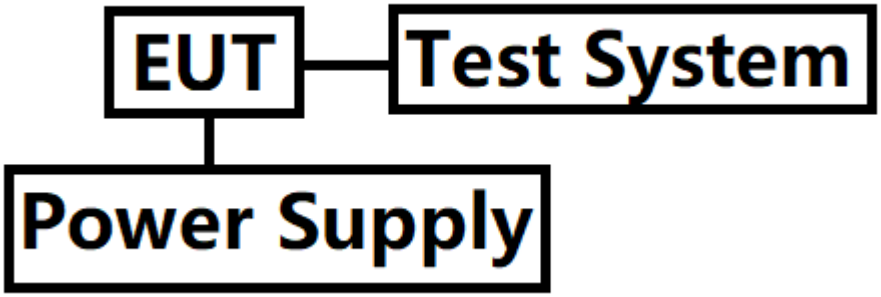
5.2. Antenna Power

Limit
10mW Tolerance: +20%
Block diagram of Test Setup

Test Setup
Test Frequency: centre Frequency Span: Max allowed to capture the trace RBW: >Occupied Bandwidth VBW: ≥RBW Sweep Time: Auto Detector: Peak Trace: Max hold Mark the highest peak value, then centre the frequency
Verdict
Pass

5.2.1. Test Result

Refer to section 8 for details

5.3. Frequency Tolerance

Limit
$\pm 50 \times 10^{-6}$
Block diagram of Test Setup

Test Setup
Test Frequency: centre Frequency Span: 1MHz RBW: 10kHz VBW: =RBW Sweep Time: Auto Detector: Peak Trace: Max hold While the trace is stabilized, mark the highest transmit frequency
Verdict
Pass

5.3.1. Test Result

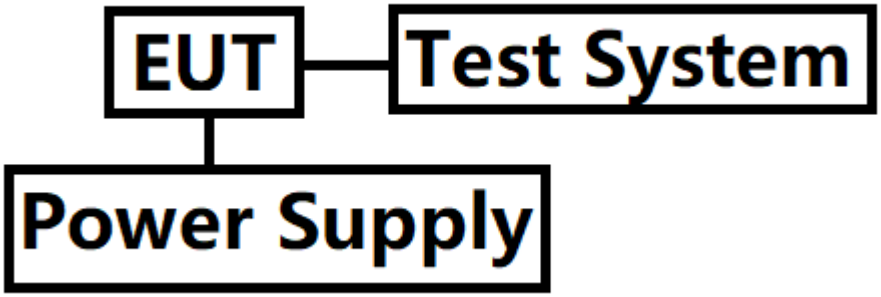
Refer to section 8 for details

5.4. Occupied Bandwidth

Limit

26MHz or less

Block diagram of Test Setup



Test Setup

Test Frequency: centre Frequency
Span: Max allowed to capture hole trace
RBW: 300kHz
VBW: =RBW
Sweep Time: Auto
Detector: Peak
Trace: Max hold
While the trace is stabilized, Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded. Mark lowest frequency FL of the 99% bandwidth and the highest Frequency FH of 99% bandwidth.

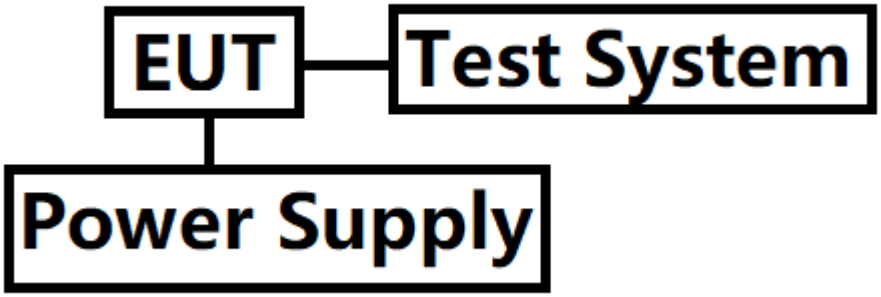
Verdict

Pass

5.4.1. Test Result

Refer to section 8 for details

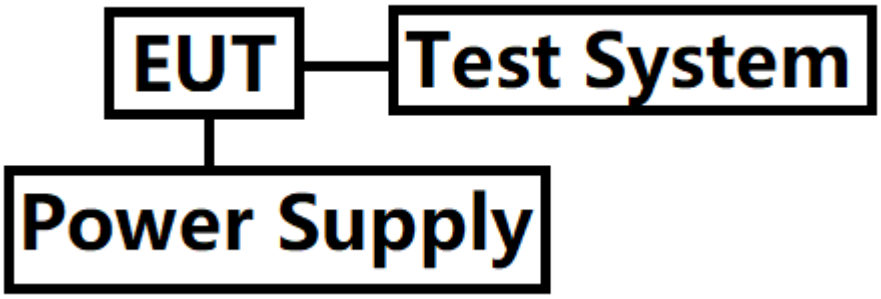
5.5. Spurious Emission Intensity

Limit
Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. 2,387 MHz ≤ f ≤ 2,400 MHz and 2,483.5 MHz < f ≤ 2,496.5 MHz: 25 μW or less b. 2,387 MHz > f and 2,496.5 MHz < f: 2.5 μW or less
Block diagram of Test Setup

Test Setup
Analyser frequency set to the wanted transmitting frequency Frequency Range:30MHz ~ 12.5GHz RBW: 100 kHz<1GHz; 1MHz>1GHz VBW:=RBW Sweep time: Auto Detector: Peak Trace: Max Hold Allow the trace to stabilize. Use mark-peak function to mark the highest emission level.
Verdict
Pass

5.5.1. Test Result

Refer to section 8 for details

5.6. Second Radiated Emission

Limit
4nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher
Block diagram of Test Setup

Test Setup
Analyser frequency set to the wanted transmitting frequency Frequency Range:30MHz ~ 12.5GHz RBW: 100 kHz<1GHz; 1MHz>1GHz VBW:=RBW Sweep time: Auto Detector: Peak Trace: Max Hold Allow the trace to stabilize. Use mark-peak function to mark the highest emission level.
Verdict
Pass

5.6.1. Test Result

Refer to section 8 for details

5.7. Interference Prevention Function

Limit
a. Identification code transmission/reception: Radio equipment used mainly on the same premises and automatically transmits or receives identification code b. Frequency switching and other functions: Users shall be able to choose operating frequencies and halt emission.
Block diagram of Test Setup
Radio equipment — Dummy load Attenuator — Demodulator
Verdict
Pass

5.7.1. Test Result

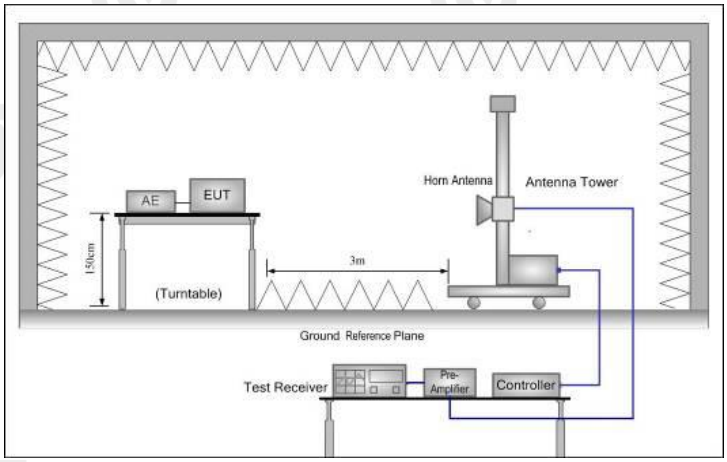
BT mac: 55:23:2f:dc:99

5.8. Equivalent Isotropic Radiated Power

Limit

12.14dBm

Block diagram of Test Setup



Test Procedures

Step 1

Set the test equipment at test frequency, and in continuous transmitting mode or intermittent burst mode (constant frequency and constant burst time). Stop the spread.

Step 2

Set the height and direction of test equipment and measurement antenna approximately facing each other.

Step 3

In the frequency derived in D), change the height of the measurement antenna from the ground by ±50cm with a central focus on the antenna of test equipment. Search the location that the power is maximum by adjusting the direction of measurement antenna. Set the indicator of spectrum analyzer at this point as “E”.

Step 4

Remove the test equipment from the turntable, set the opening of substitution antenna at the same location as the opening of the test equipment, and receive by outputting radio wave of the same frequency from the standard signal generator for substitution.

Step 5

Adjust at the maximum power point, turning the substitution antenna.

Step 6

Change the height of the measurement antenna from the ground by ±50cm with a central focus on the substitution antenna, and adjust the direction of measurement antenna to the location that the received power is maximum.

Step 7

Adjust output of standard signal generator and record the power Ps that is equal to “E”. Or record Ps by counting backward from the difference with “E” as the close value to “E” (within ±1dB).

Step 8

EIRP is derived from the following calculating formula:

$EIRP = G_S – L_F + P_S$

G_S; Absolute gain of substitution antenna (dBi).

L_F; Loss of electric supply line between standard signal generator and substitution antenna (dB).

P_S; Output of standard signal generator (dBm).

Verdict

N/A, EIRP less than 12.14 dbm

6. Test setup photo

Refer to appendix I for details

7. Photo of the EUT

Refer to appendix II for details

8. Test Result

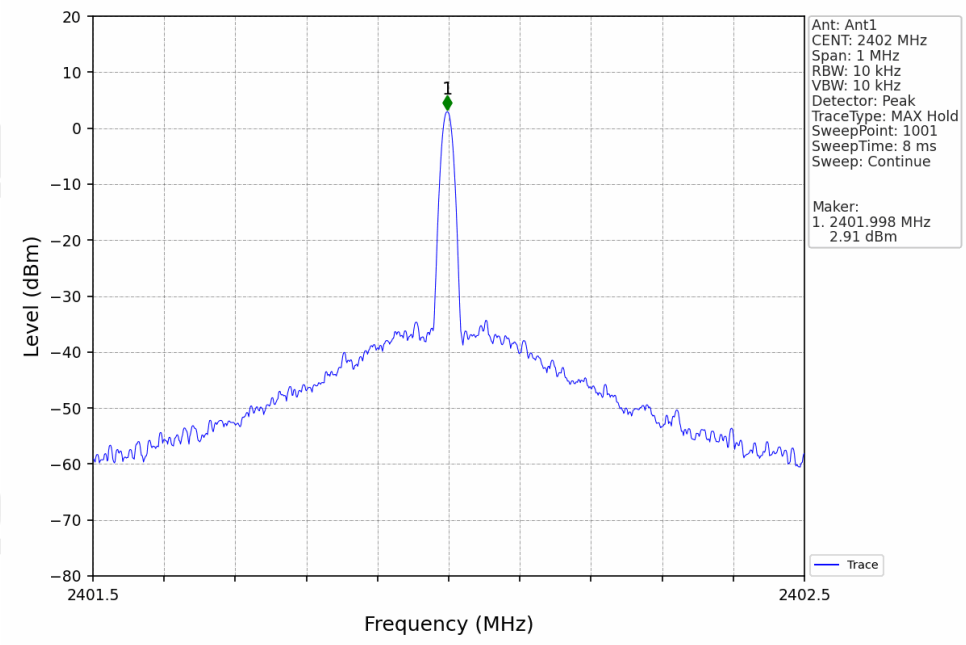
1. Frequency Error

1.1 Test Result

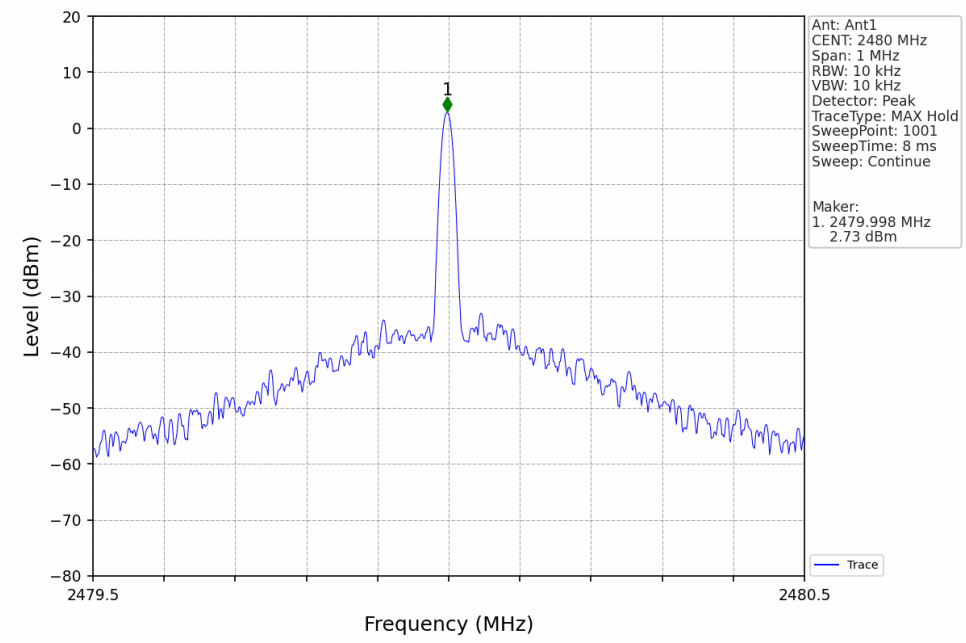
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2401.998	-0.83	-50 to 50	Pass
			2480	2479.998	-0.81	-50 to 50	Pass

1.2 Test Graph

Frequency Error_NTNV_Carrier Wave_2402MHz_Ant1_NTNV



Frequency Error_NTNV_Carrier Wave_2480MHz_Ant1_NTNV



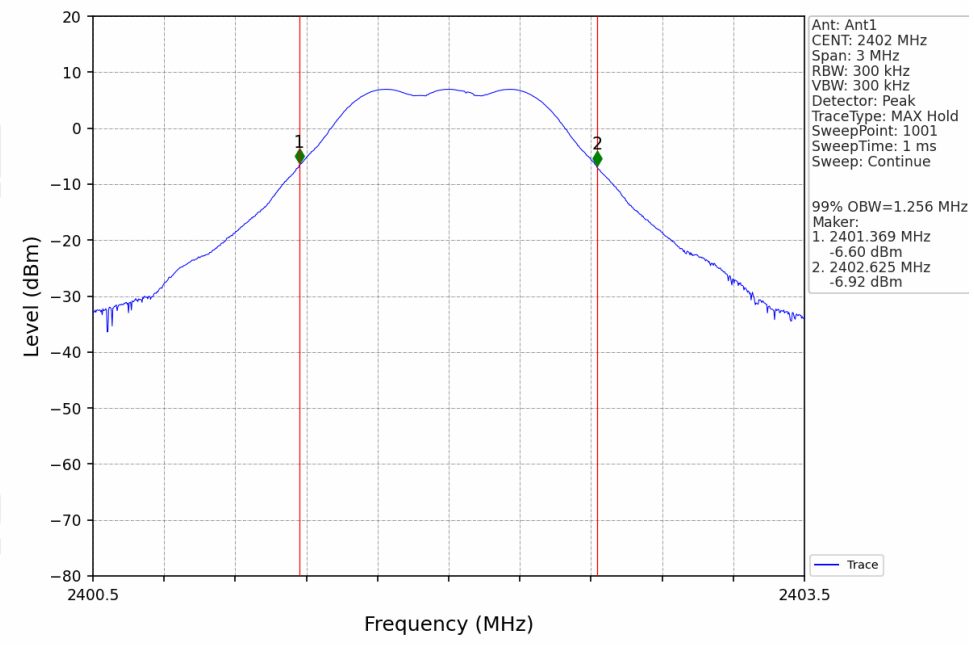
2. Occupied Bandwidth

2.1 Test Result

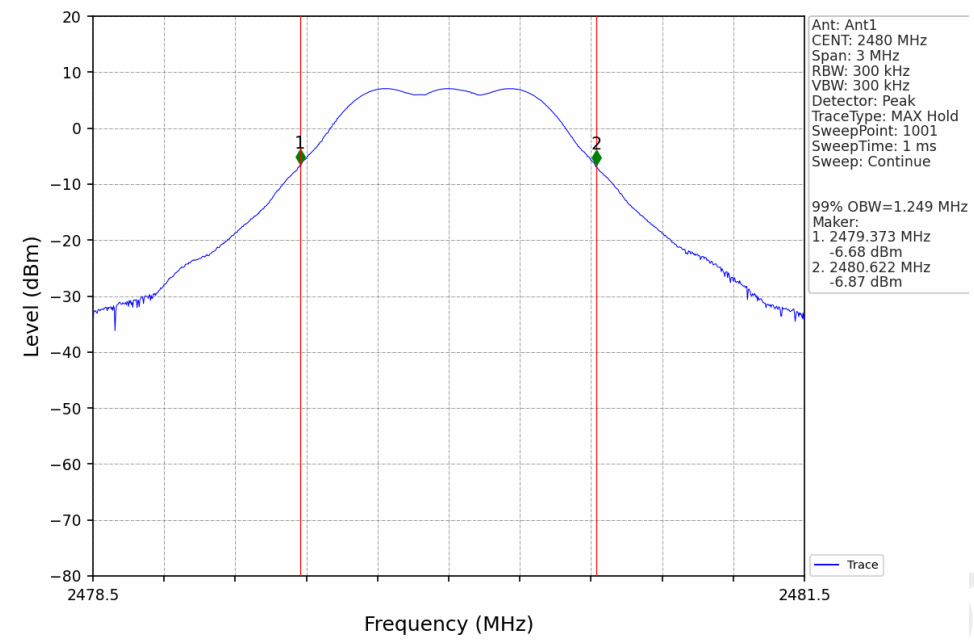
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	1.256	<=26	Pass
			2480	1.249	<=26	Pass

2.2 Test Graph

1M_2402MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV



3. Antenna Power

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	1M	SISO	2402	1	4.97	<=10.00	5.00	-0.60	<=20	Pass
			2480	1	5.12	<=10.00	5.00	2.40	<=20	Pass

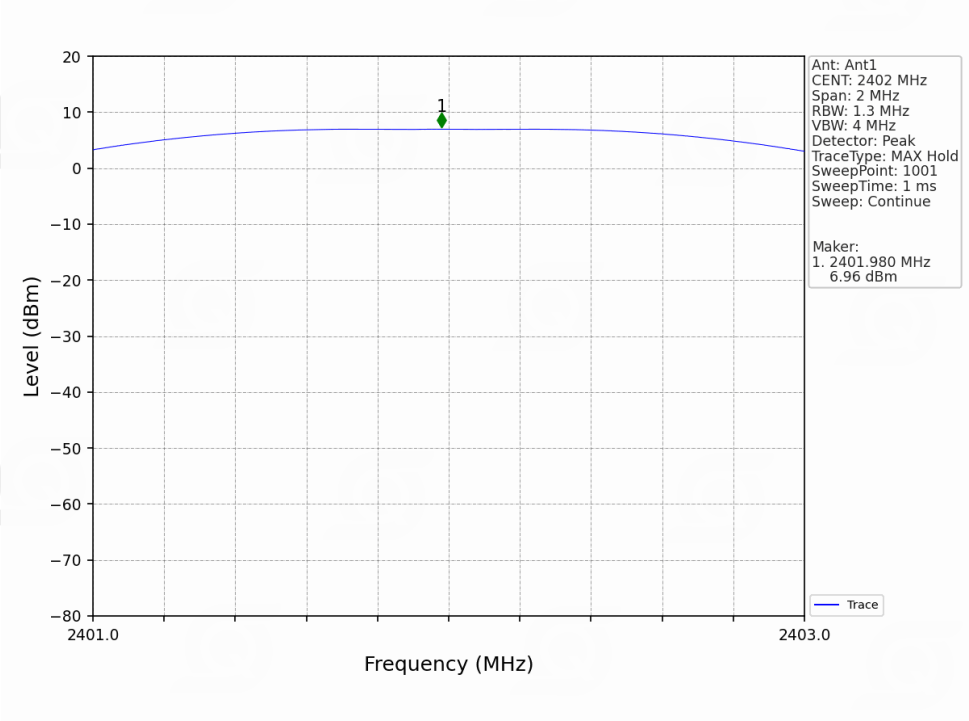
3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (dBm)		Verdict
						Result	Limit	
NTNV	1M	SISO	2402	1	1.93	8.89	<=12.14	Pass
			2480	1	1.93	9.02	<=12.14	Pass

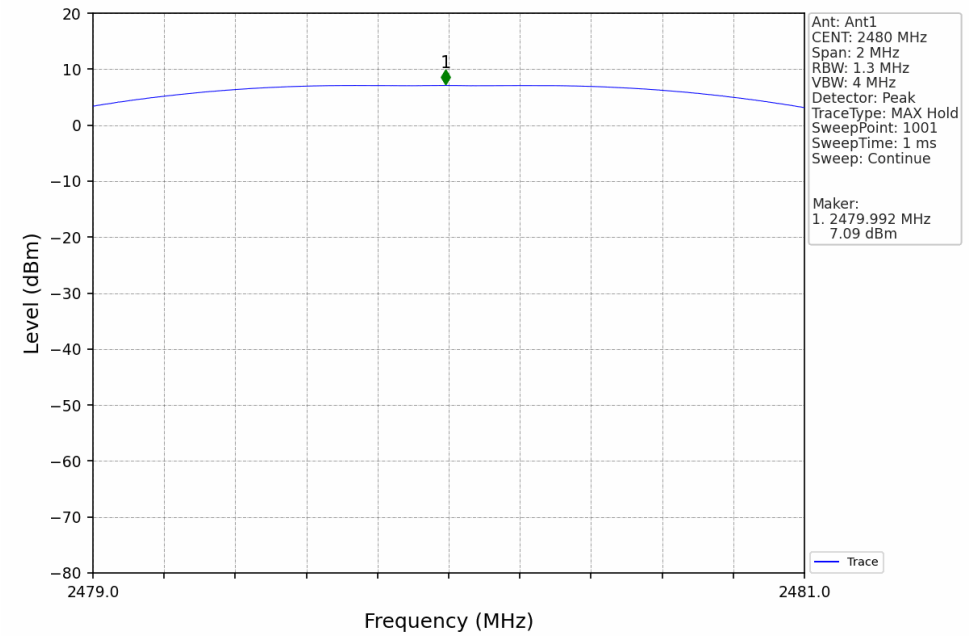
3.2 Test Graph

3.2.1 Power

1M_2402MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV



4. Spurious Emission Intensity

4.1 Test Result

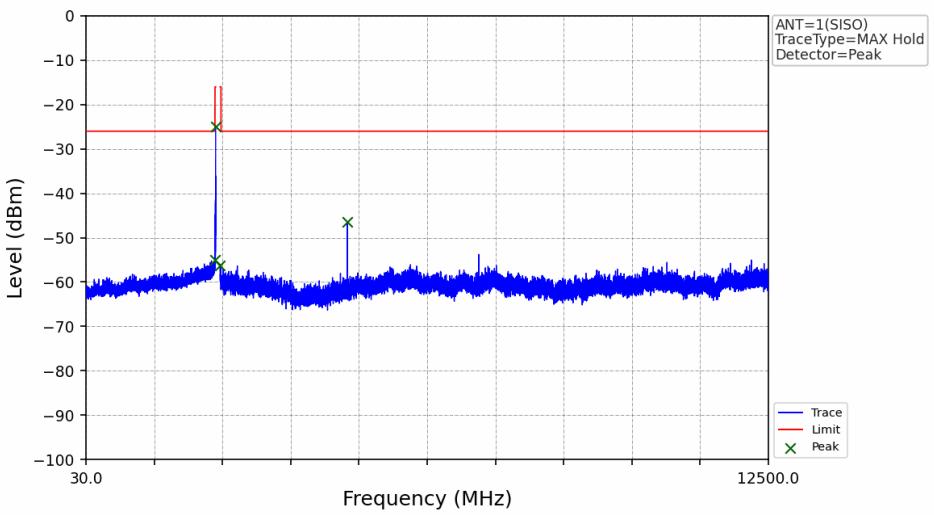
4.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2386	-54.99	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-24.97	3.184	/	/	25	Pass
				2483.5	2496.5	2484.137	-56.20	0.002	/	/	25	Pass
				2496.5	12500	4805	-46.42	0.023	/	/	2.5	Pass
		2480	1	30	2387	2324	-54.71	0.003	/	/	2.5	Pass
				2387	2400	2391.368	-55.66	0.003	/	/	25	Pass
				2483.5	2496.5	2483.565	-35.34	0.292	/	/	25	Pass
				2496.5	12500	4961	-42.80	0.052	/	/	2.5	Pass

4.2 Test Graph

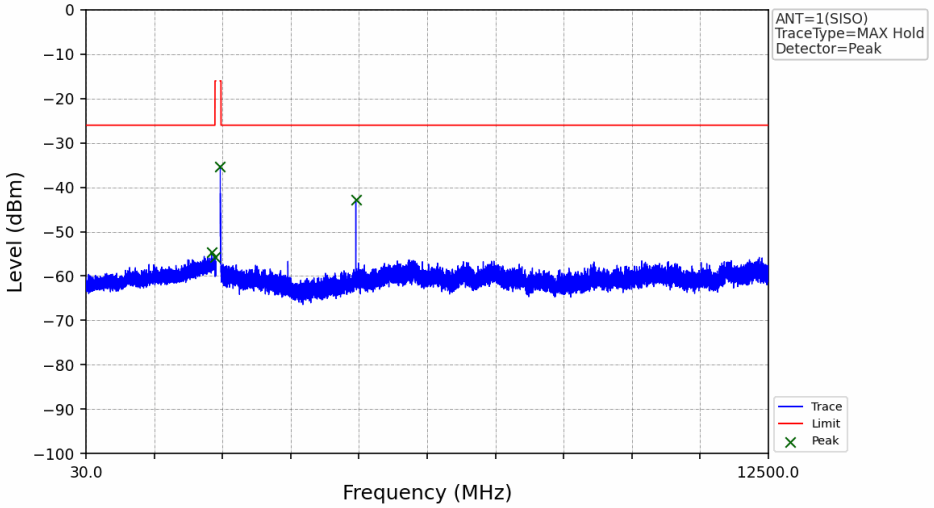
4.2.1 TxSe_NTNV

1M_2402MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-54.99	/	-26	Pass
2387	2400	1	1	2399.987	-24.97	/	-16	Pass
2483.5	2496.5	1	1	2484.137	-56.20	/	-16	Pass
2496.5	12500	1	1	4805.000	-46.42	/	-26	Pass

1M_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2324.000	-54.71	/	-26	Pass
2387	2400	1	1	2391.368	-55.66	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-35.34	/	-16	Pass
2496.5	12500	1	1	4961.000	-42.80	/	-26	Pass

5. Secondary Radiated Emission

5.1 Test Result

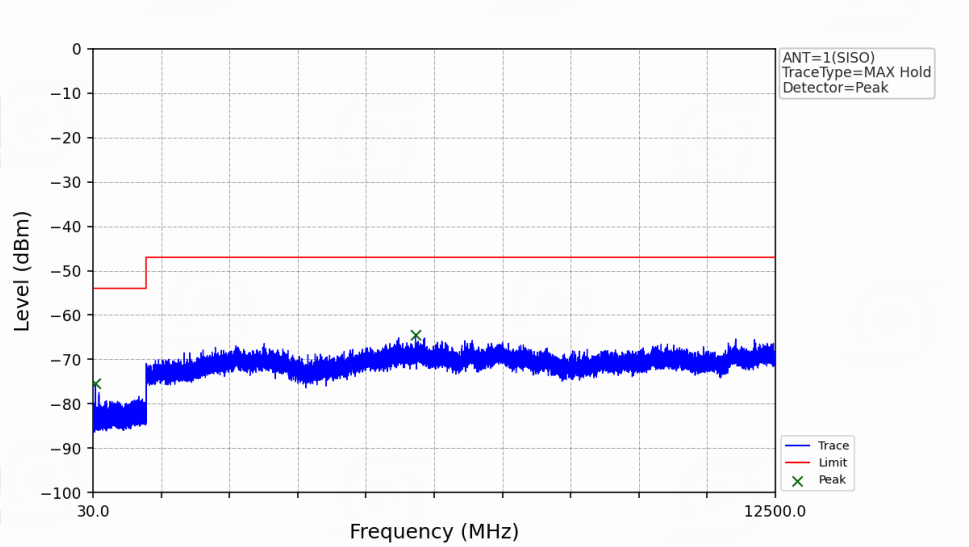
5.1.1 RxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	77.25	-75.45	0.029	/	/	4	Pass
				1000	12500	5920.5	-64.56	0.350	/	/	20	Pass
		2480	1	30	1000	76.6	-75.39	0.029	/	/	4	Pass
				1000	12500	11651.5	-64.88	0.325	/	/	20	Pass

5.2 Test Graph

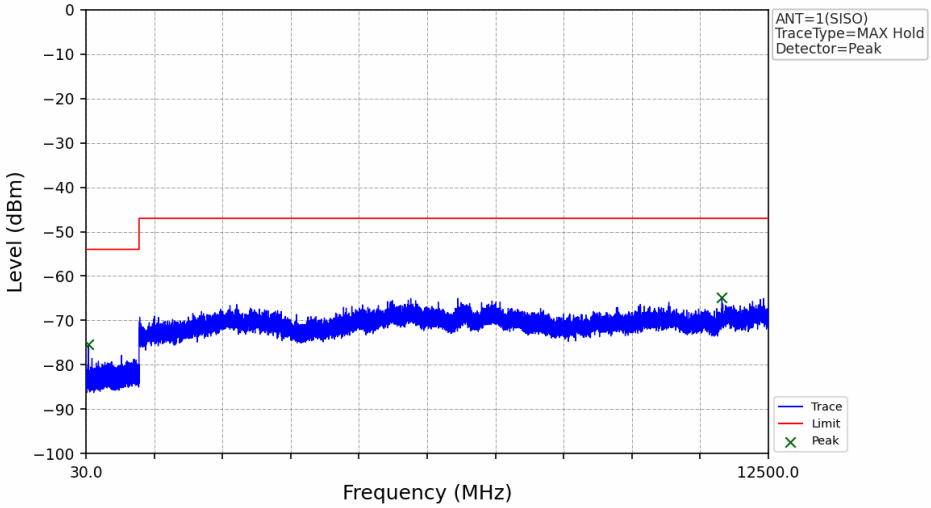
5.2.1 RxSe_NTNV

1M_2402MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	77.250	-75.45	/	-54	Pass
1000	12500	1	1	5920.500	-64.56	/	-47	Pass

1M_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	76.600	-75.39	/	-54	Pass
1000	12500	1	1	11651.500	-64.88	/	-47	Pass

*******End of report*******