

**TEST REPORT**

Report Number : 709502602783-00 Date of Issue: April 17, 2026

Product Name : DC Drapery motor

Model : DT20LEU/S-1.2/12

Applicant : Prossimo Inc.

Address : #1F Prossimo 1-1-8 Higashiooi, Shinagawa-ku, Tokyo-to 140-0011, Japan

Factory : Ningbo Dooya Mechanic & Electronic Technology Co., Ltd.

Address : No.168 Shengguang Road, Luotuo, Zhenhai, 315202 Ningbo, Zhejiang province, PEOPLE'S REPUBLIC OF CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 21



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1 General Information

1.1 Product information and other Remarks

The EUT is a Wireless DC Drapery motor.

Prepared by
Project Engineer

2026.04.17

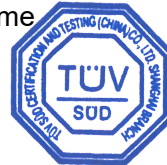
Date

Jiaxi XU

Name

Jiaxi XU

Signature



Approved by
Project Manager

2026.04.17

Date

Zhining ZHANG

Name

Zhining Zhang

Signature



1.2 Testing Laboratory Information

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Company Address: No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China

Telephone: +86 21 6141 0123

Fax: +86 21 6140 8600

1.3 Details of Applicant

Applicant: Prossimo Inc.

Address: #1F Prossimo 1-1-8 Higashiooi, Shinagawa-ku, Tokyo-to 140-0011, Japan

Product Description: DC Drapery motor

Model No.: DT20LEU/S-1.2/12

1.4 Application Details

Sample Received Date: 2026.03.26

Testing Start Date: 2026.03.27

Testing End Date: 2026.04.17

1.5 Test Item

Refer to table 1

1.6 Applied Standard

APPLIED PRODUCT STANDARD

Article 2 Paragraph 1 of Item 8 of Radio Law Certification Regulations, Specified Low Power Radio Equipment: Ministry of Internal Affairs and Communications notification of No. 88, Appendix 22-2

1.7 Test Summary

Table 1. Summary of results

Essential parameter	Corresponding technical requirements: notification of No. 88, Appendix 22-2	Result
Transmitter requirements	Frequency Tolerance	PASS
	Occupied Bandwidth	PASS
	RF Output Power	PASS
	RF Output Power Tolerance	PASS
	Adjacent Channel Leakage Power	PASS
	Transmission time limiting device	PASS
	Carrier Sensing Function	PASS
	Unwanted (Spurious) Emission Strength	PASS
Receiver requirements	Secondary Emitted Radio Wave Strength	PASS
Others	Interference prevention function	PASS

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

Remark: It is compliance to the appropriate section of the Ordinance Article 2 Paragraph 1 of Item 8.



2 Equipment Specification

2.1 General Description

2.2 Technical Data

Description	DC Drapery motor
Model	DT20LEU/S-1.2/12
Operation frequency	429.1875MHz
Antenna type	PCB board Antenna
Antenna gain	-3.97dBi
Rated Input	USB type-C input: DC 5V/2A DC7.2V for DC Drapery motor
Modulation	FSK



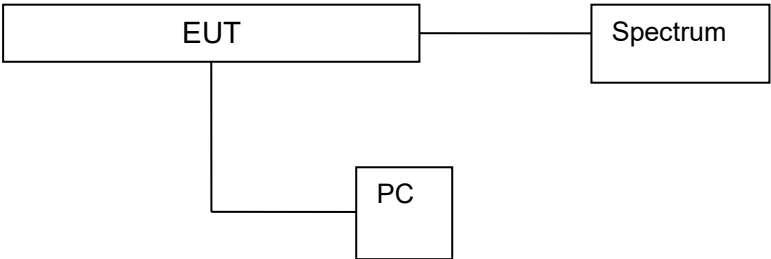
2.3 Test conditions and test Connections

2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

Power supply	The EUT is supplied DC 7.2V. The fluctuation of input voltage to radio circuit section is under 1% when input voltage from DC7.2V to the test equipment is fluctuated 10%, So, all measurement has been conducted by only rated voltage.			
	DC Input		Input voltage to the circuit of RF unit	
				Deviation
	High Voltage	7.92V	3.3V	0.00%
	Normal Voltage	7.2V	3.3V	0.00%
	Low Voltage	6.8V (declared by client)	3.3V	0.00%
Test Frequencies:	If the EUT can be set to 3 of more different(carrier) frequencies in allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.			

2.3.2 Test Connections



Test Configuration

2.4 Auxiliary Equipment Used during Test

Table 3. Auxiliary Equipment Used during Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE

2.5 Lists of Test Instruments

Table 4. Lists of Test Instruments

Description	Manufacturer	Model no.	Serial no.	CAL. DATE	CAL. DUE DATE
Signal spectrum analyzer	Agilent	N9020B	MY59050168	2026-2-24	2027-2-23
RF automatic control unit	MWRFTest	MW100-RFCB	S2110418b -YQ-EMC	2025-10-9	2026-10-8
RF_Cable	UCWAVE ELECTRONIC	UCA500-NJWSM-1.5M	---	2025-8-1	2026-7-31

2.6 Measurement Uncertainty (95% confidence levels, k=2)

System Measurement Uncertainty	
Test Items	Extended Uncertainty
RF Conducted Measurement	Power related: 1.16dB Frequency related: 6.00×10^{-8}

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.

3 Measurements Result

3.1 Frequency Tolerance

3.1.1 Test condition

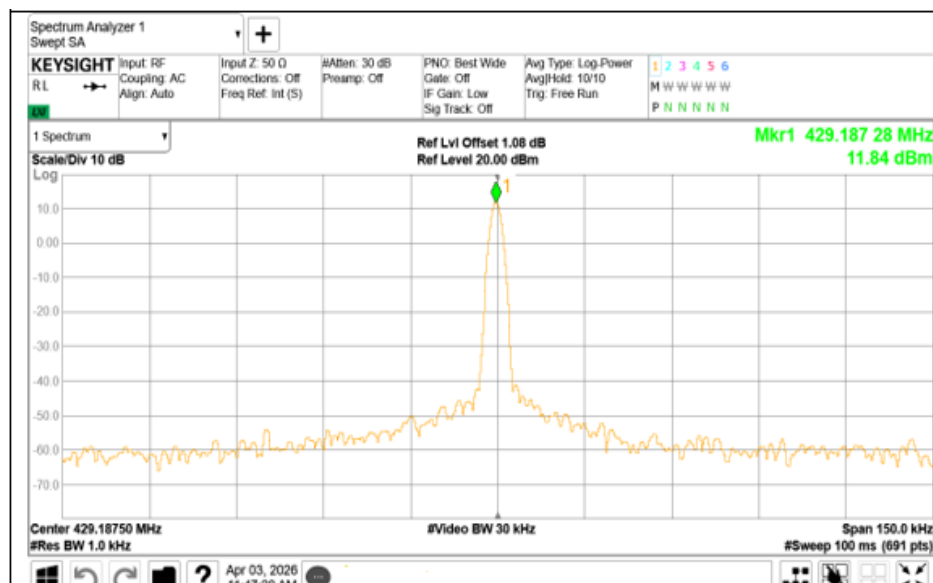
Date of testing:	04/03/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.1.2 Limit

	Objective radio equipment	Tolerance
1	400MHz band radio equipment (6.25kHz interval)	$\pm 2 \times 10^{-6}$
2	400MHz band radio equipment (12.5kHz, 25kHz interval (Radio equipment listed in (3) is excluded)	$\pm 4 \times 10^{-6}$
3	Over 426.0375MHz and up to 426.1125MHz Radio equipment (25kHz interval and occupied band width 12kHz or less)	$\pm 10 \times 10^{-6}$

3.1.3 Test result

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Tolerance (kHz)	Tolerance (ppm)	Limit (ppm)
429.1875	7.2V	429.18728	0.21739	-0.51	± 4
Conclusion: PASS					



3.1.4 Result

The equipment met the requirement of this clause.

3.2 Occupied Bandwidth

3.2.1 Test condition

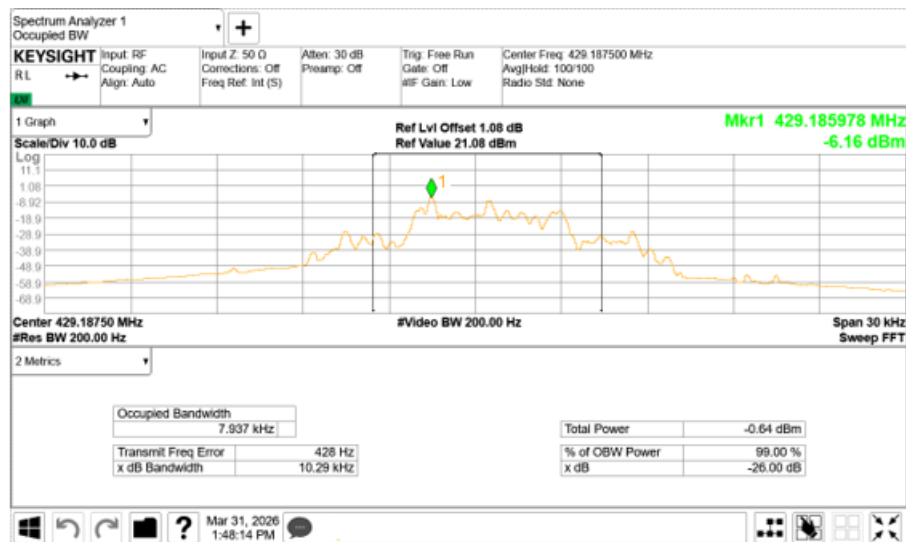
Date of testing:	03/31/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.2.2 Limit

Objective radio equipment	Permissible Value
Radio equipment with occupied bandwidth of 5.8kHz or less	5.8KHz
Radio equipment with occupied bandwidth over 5.8kHz	8.5KHz
Radio equipment operated in over 426MHz and up to 427MHz band with 25kHz interval	16KHz

3.2.3 Test result

Test Frequency (MHz)	Voltage (VDC)	99% Bandwidth (KHz)	Limit (KHz)
429.1875	7.2V	8	<8.5
Conclusion: PASS			



3.2.4 Result

The equipment met the requirement of this clause.

3.3 RF Output Power and E.I.R.P.

3.3.1 Test condition

Date of testing:	03/31/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.3.2 Limit

The antenna power (the specified or rated power that is supplied from the transmitter to the feeder of an antenna system in normal operation and is averaged over a sufficiently long period of time compared to the cycle of the lowest frequency) shall be 1 W or less. However, for transmission units using a frequency between 426.025 MHz and 426.1375 MHz, the antenna power shall be 0.1 W or less.

3.3.3 Test Result

Antenna Power

Test Frequency (MHz)	Voltage (DC)	Result (mW)	Limit (mW)
429.1875	7.2V	0.24	1000
Conclusion: PASS			

E.I.R.P.

Test Frequency (MHz)	Voltage (DC)	Result (dBm)	Antenna gain (dBi)	E.I.R.P. (dBm)	Limit (dBm)
429.1875	7.2V	-6.12	-3.97	-10.09	12.93
Conclusion: PASS					

3.3.4 Result

The equipment met the requirement of this clause.

3.4 RF Output Power Tolerance

3.4.1 Test condition

Date of testing:	03/31/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.4.2 Limit

The tolerances for antenna power (the maximum allowable deviation from the specified or rated antenna power) shall be +20% to -50%.

3.4.3 Test Result

Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW)	Result (mW)	Tolerances	Limit (mW)
429.1875	7.2V	0.25	0.24	-4%	+20%~-50%
Conclusion: PASS					

3.4.4 Result

The equipment met the requirement of this clause.

3.5 Adjacent Channel Leakage Power

3.5.1 Test condition

Date of testing:	04/01/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

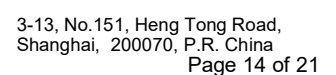
3.5.2 Limit

As for the adjacent-channel leakage power (the power radiated in a certain band of the adjacent channel separated from the carrier frequency at the specified frequency interval), the power radiated into the band of the frequency the specified frequency distant from the carrier frequency shall be lower than the carrier power by 40 dB or more, when modulation is performed using the standard coded test signal at the same transmission speed as that of the modulation signal.

Objective radio equipment	Detune Frequency	Measured Bandwidth
400MHz band radio equipment (6.25kHz interval)	6.25KHz	$\pm 2.0\text{KHz}$
400MHz band /1,200MHz band radio equipment (12.5kHz interval)	12.5KHz	$\pm 4.25\text{KHz}$
400MHz band /1,200MHz band radio equipment (25kHz interval)	25KHz	$\pm 8.0\text{KHz}$

3.5.3 Test Result

Frequency	Level	Limit
carrier frequency	0.635dBm	40dBc or below
$\pm 4.25\text{KHz}$ bandwidth at carrier frequency +12.5KHz	-40.59dBc	
$\pm 4.25\text{KHz}$ bandwidth at carrier frequency -12.5KHz	-44.56dBc	
conclusion: PASS		



3.6 Transmission time limiting device

3.6.1 Test condition

Date of testing:	03/31/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

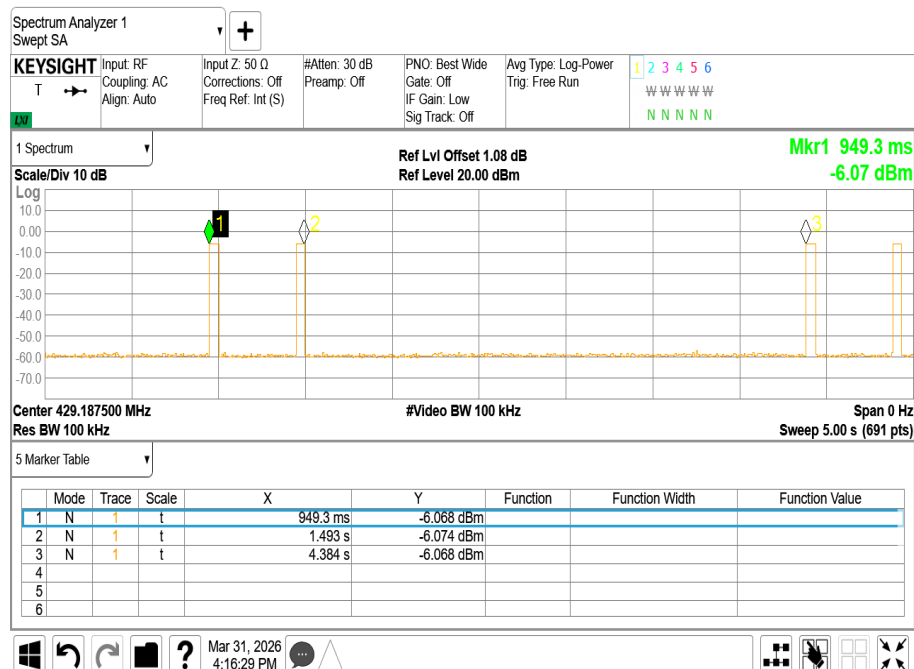
3.6.2 Limit

Transmission Continuous Time: 40 seconds,
Transmission Quiescence Time: 2 seconds

Channel No.	Operation Frequency (MHz)	Transmission Time restriction (Transmission Continuous Time, Transmission Quiescence Time)
1	429.1875	Transmission Continuous Time: 40 seconds. Transmission Quiescence Time :2 seconds

3.6.3 Test Result

Test condition	Time(s)	Result
TX on	less than 40s	Pass
TX off	more than 2s	Pass



3.6.4 Result

The equipment met the requirement of this clause

3.7 Unwanted Spurious Emissions Strength (Conducted) (For transmitter)

3.7.1 Test condition

Date of testing:	2026.03.31~2026.04.01
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	58.1%
Atmosphere Pressure:	1017.6 mBar

3.7.2 Limit

Scanning Bandwidth:

Frequency Range	Limit
30 to 428.1875MHz *1	2.5uW or below(-26.02dBm)
430.1875 to 1000MHz *1	2.5uW or below(-26.02dBm)
1000 to 3000MHz	2.5uW or below(-26.02dBm)
± 1MHz Carrier Frequency *2 *3	2.5uW or below(-26.02dBm)
± 62.5kHz Carrier Frequency *2 *4	2.5uW or below(-26.02dBm)

*1:Carrier frequency, excluding ± 1MHz.

*2:Carrier frequency, excluding ± 62.5kHz.

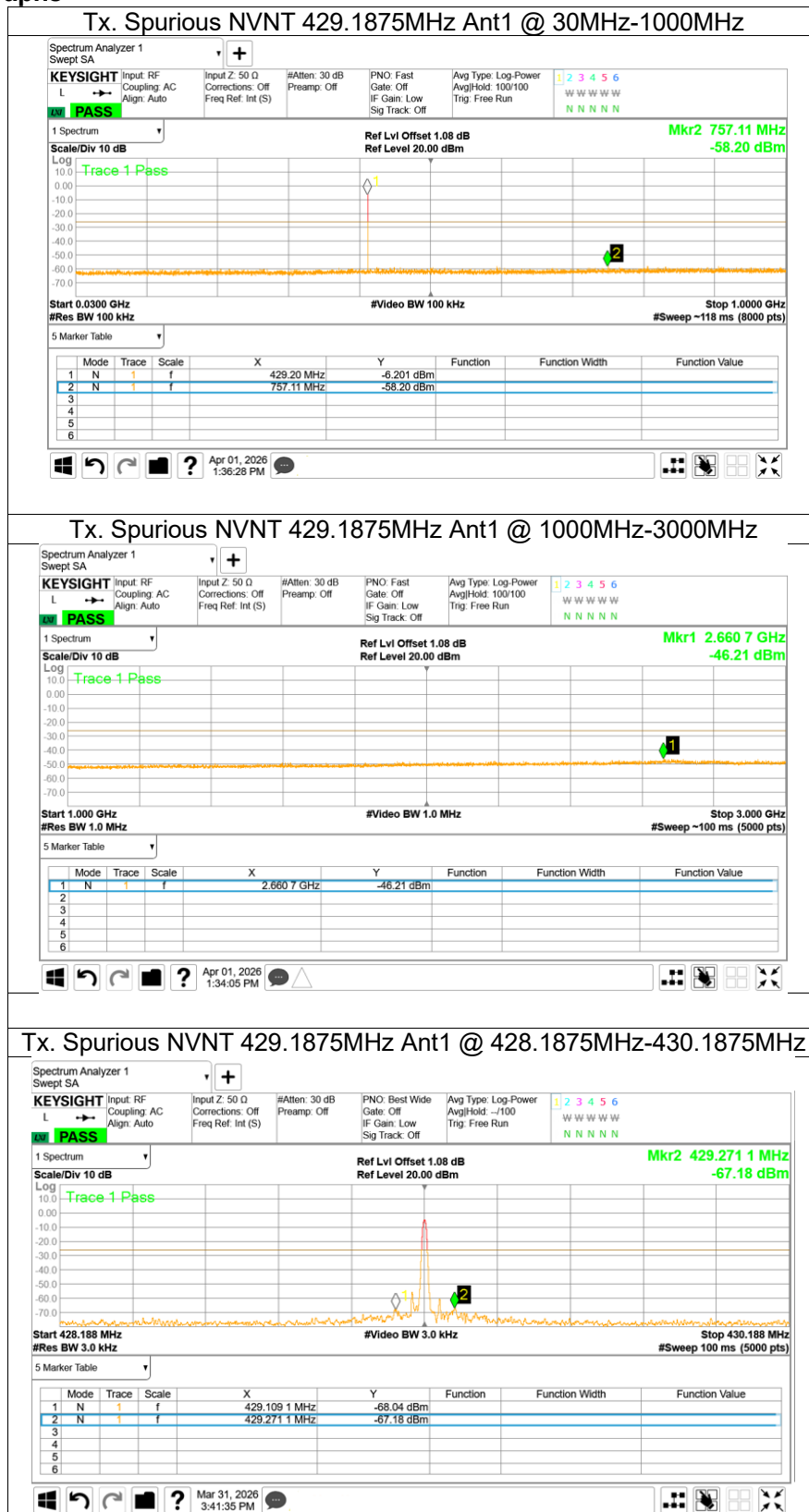
*3:Carrier frequency, excluding ± 4.25kHz.

3.7.3 Test Result

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Results (uW)	Scanning Bandwidth	Limit
429.1875	757.11	-58.20	0.001514	30 to 1000MHz	2.5uW or below (-26.02dBm)
	2660.7	-46.21	0.023933	1000 to 3000MHz	2.5uW or below (-26.02dBm)
	429.1091	-52.84*	0.005200	± 1MHz Carrier Frequency	2.5uW or below (-26.02dBm)
	429.2000	-51.98*	0.006339	± 62.5kHz Carrier Frequency	2.5uW or below (-26.02dBm)

Note: "*" denotes for correction of RBW (+15.2dB for 3kHz).

3.7.4 Test Graphs



3.7.5 Result

The equipment met the requirement of this clause.

Title: MIC-2.4GHz SRD Test Report
Revision: 23.00
Effective: 2023-09-01

ID-Number: EMC_SHA_F_R_25.58E
Author: Hui TONG
Developed: 2023-09-01

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Co., Ltd. Shanghai Branch

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Shanghai, 200070, P.R. China

3.8 Secondary Radiated Emissions Strength (Conducted) (For receiver)

3.8.1 Test condition

Date of testing:	04/03/2026
Channel:	429.1875MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.8.2 Limit

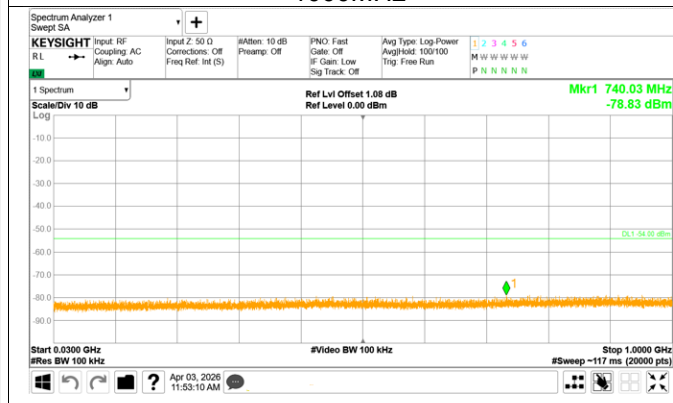
Frequency Range	Limit
30 to 1000MHz	4nW or below(-54dBm)
1000 to 3000MHz	4nW or below(-54dBm)

3.8.3 Test Result

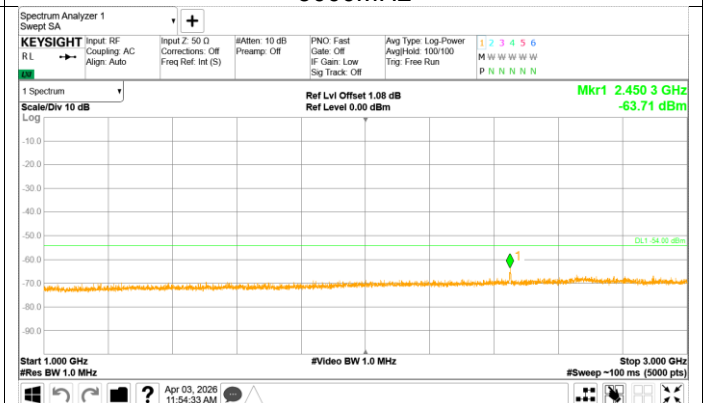
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Results (nW)	Scanning Bandwidth	Limit
429.1875	740.03	-78.83	0.013092	30 to 1000MHz	4nW or below (-54dBm)
	2450.29	-63.72	0.424620	1000 to 3000MHz	4nW or below (-54dBm)

Test Graphs

Rx. Spurious NVNT 429.1875MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT 429.1875MHz Ant1 @ 1000MHz-3000MHz



3.9 Carrier Sensing Function

3.9.1 Test condition

Date of testing:	04/17/2026
Channel:	429.1875MHz
Test position:	Receiving
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.9.2 Limit

When the carrier sensing device receives a radio wave from another radio station before a radio communication channel is established, it shall not radiate emissions of the same frequency (if the communication method of the carrier sensing device is duplex operation or semi-duplex operation, the transmission frequency corresponding to the receiving frequency) as that which the said radio station radiates.

3.9.3 Test Result

Test Condition	Test Frequency	Limit	Result
NTNV	429.1875MHz	-96dBm	Pass
NTLV	429.1875MHz	-96dBm	Pass
NTHV	429.1875MHz	-96dBm	Pass

3.9.4 Result

The equipment met the requirement of this clause.

3.10 Interference prevention function

3.10.1 Test condition

Date of testing:	N/A
Channel:	N/A
Test position:	N/A
Ambient temperature:	N/A
Relative humidity:	N/A
Atmosphere Pressure:	N/A

3.10.2 Limit

Item	Limits
Identification Code	≥48 bits

Measured Result: This EUT is not connected to a telecommunications circuit. It is easily deactivated radio-frequency transmission by user.

Complies.

3.10.3 Result

The EUT is deemed to fulfil the relevant requirements.

4 Photographs of Test Set-ups

