

JAPAN SPECIFIED RADIO EQUIPMENT

TEST REPORT

For

RCU GEN2 434

Trade Name: LID Technologies

Model: 20152

Issued to

LID Technologies S.A.S.

**12 rue Hermes Bat.C Parc Technologique du Canal 31520
Ramonville-Saint-Agne, France**

Issued by

Compliance Certification Services Inc.

Wugu Laboratory

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.**

Issued Date: January 13, 2026

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 13, 2026	Initial Issue	ALL	Peggy Tsai

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1. TEST RESULT CERTIFICATION

Applicant: LID Technologies S.A.S.
12 rue Hermes Bat.C Parc Technologique du Canal 31520
Ramonville-Saint-Agne, France

Manufacturer: LID Technologies S.A.S.
12 rue Hermes Bat.C Parc Technologique du Canal 31520
Ramonville-Saint-Agne, France

Equipment Under Test: RCU GEN2 434

Model Number: 20152

Detailed EUT Description: See Item 3 of this report

EUT Receive Date: December 18, 2025

Date of Test: December 22, 2025

APPLICABLE STANDARDS	
CLASSIFICATION	TEST RESULT
Article 2 Clause 1 Item 8	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in Article 2 Clause 1 Item 8. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:



Shawn Wu
Supervisor
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product Name	RCU GEN2 434
Model Name	20152
Trade Name	LID Technologies
Power Supply	Power from Power Supply. (DC 12V)
Frequency Range	433.92MHz
Rated Antenna Power (W)(EIRP)	0.001
Measured Antenna Power (μW)(EIRP)	937.562007
Test Category	Specified Low Power Radio Equipment
Modulation Technique	FSK
Antenna Specification	Type: Custom Through-hole Vertical Helix Antenna Gain: -3 dBi Manufacturer: WIREFORM Model: 205-008-0003-A2
H.W Version	18-191-D
S.W Version	4200420211

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST METHODOLOGY & CONDITIONS

3.1 TEST CONDITIONS

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	12	13.2	10.8
Output DC Power	5	5	5
Voltage Variation (%)	0	0	0
Voltage Regulator IC: MPS MPQ2013AGQ-5-AEC1			

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 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 regulations.

3.2 TESTING APPLIED STANDARDS

MIC Notice No.88 Appendix No.1

MIC Notification, No. 88 of 2004, appendix 22-16

MIC Certification Rule, Article 2 Paragraph 1 Item 8

3.3 DESCRIPTION OF TEST MODES

The EUT (model: 20152) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

3.4 RF SHIELDING METHOD

The housing is closed using plastic clips that are not designed for reopening and will break when the device is opened.

The rubber seal is also designed to be used only once. So upon opening the device, the working specification of the clips, the water-resistant feature and the expected device performance will not be guaranteed anymore.



3.5 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

Conducted TELECOM (All)						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Remark
DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A	N/A	1
NB(C)	Lenovo	T470	N/A	N/A	N/A	2
DCU	N/A	N/A	N/A	N/A	N/A	A
CAN Harness	N/A	N/A	N/A	N/A	N/A	B

4 INSTRUMENT AND CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

4.3 EQUIPMENT USED FOR EMISSION MEASUREMENT

Conducted TELEC (All)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Lab	Accreditation Organization of the-Cal. Lab	Calibration Method
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23	ETC	TAF	c
DC Blocks	Marvelous Microwave	MVE6411	MVE-001	2025-08-06	2026-08-05	ETC	TAF	c
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14	ETC	TAF	c
Software	N/A							

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- Calibration Method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
 - Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
 - Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

4.4 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) $k = 1,96$ or $k = 2$ (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table is based on such expansion factors.

Table: Maximum measurement uncertainty

PARAMETER	UNCERTAINTY
Frequency error measurement	$\pm 1.890\text{dB}$
occupied bandwidth measurement (99%)	$\pm 1.971\text{dB}$
antenna power (Conducted) measurement	$\pm 1.871\text{dB}$
Unwanted emission strength measurement	$\pm 1.871\text{dB}$
Limitation of collateral emissions of receiver	$\pm 1.870\text{dB}$

5 SUMMARY OF TEST RESULTS

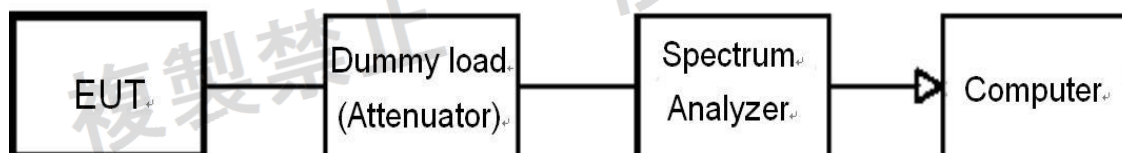
MIC Notice No.88, 2004, Appendix No.22 Article 2, Paragraph 1, Item 8 Rules Section	Report Chapter	Classification of EUT	Result
2	5.2	Frequency Tolerance	Compliance
3	5.3	Occupied Bandwidth	Compliance
5	5.4	Output Power Tolerance	Compliance
4	5.5	Unwanted Emission Strength	Compliance
7	5.6	Secondary Radiated Emission Strength	Compliance
8	5.7	Transmission time restriction	Compliance

5.1 TEST RESULT

Temperature:	24.3°C	Test Date:	December 22, 2025
Humidity:	58%RH	Test By:	Jerry Chang

Peak Antenna Gain	-3.00	dBi
Declaration Output Power	0.00200	W
Declaration Output Power	3.00000	dBm
E.I.R.P	0.00100	W
E.I.R.P	0.00	dBm
Input Power Voltage	12.0	VDC

5.2 FREQUENCY TOLERANCE



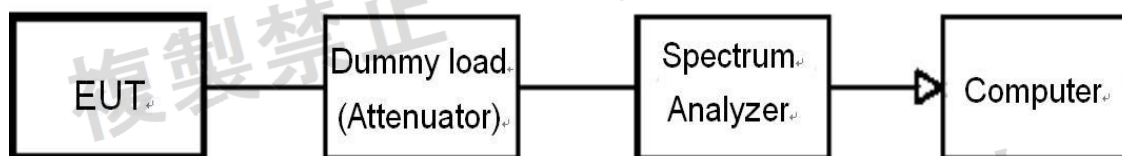
LIMIT

Frequency Tolerance: $433.795 \text{ MHz} \leq f \leq 434.045 \text{ MHz}$.

TEST RESULT

Measured Frequency	MHz	433.92	Result
Lower Frequency	MHz	433.8862160	PASS
Upper Frequency	MHz	433.9431070	PASS

5.3 OCCUPIED BANDWIDTH



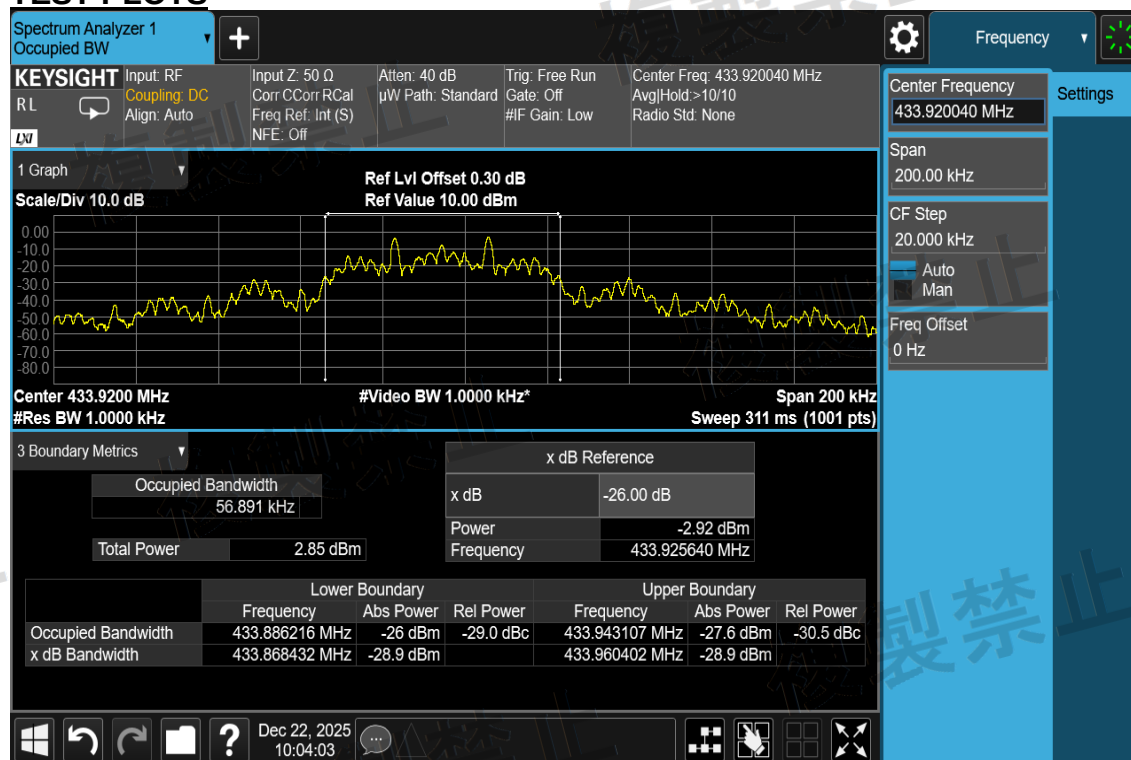
LIMIT

Max. Occupied Bandwidth: 250 kHz.

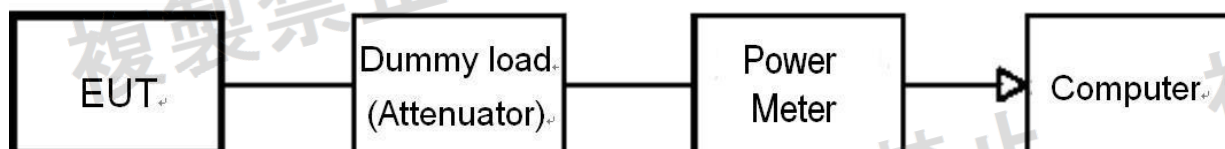
Test Data

Measured Frequency	MHz	433.92	Result
Lower Frequency	MHz	433.8862160	PASS
Upper Frequency	MHz	433.9431070	PASS
Occupied Bandwidth	kHz	56.891	PASS

TEST PLOTS



5.4 ANTENNA POWER/ANTENNA POWER TOLERANCE/TRANSMITTER ANTENNA GAIN



LIMIT

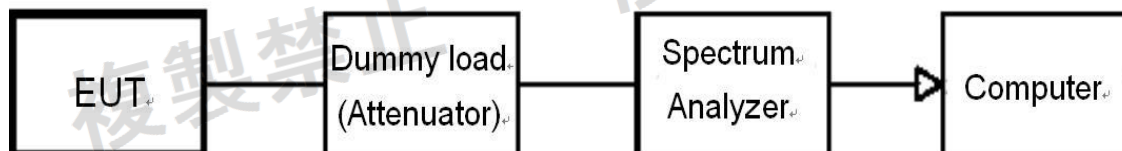
RF Output Power (E.I.R.P.) ≤ 1 mW.

RF Output Power Tolerance $\leq 20\%$.

TEST RESULT

Measured Frequency	MHz	433.92	Result
RF Output Power	μW	1870.682140	reference
RF Output Power (E.I.R.P.)	μW	937.562007	PASS
RF Output Power Tolerance	%	-6.24	PASS
Real Output Power (E.I.R.P)	dBm	-0.28	reference

5.5 UNWANTED EMISSION STRENGTH MEASUREMENT



LIMIT

Frequency (MHz)	Limit
30MHz-433.795MHz	$\leq 250\text{nW}$ (-36 dBm) / 100kHz
434.045MHz to 1GHz	$\leq 250\text{nW}$ (-36 dBm) / 100kHz
1GHz to 4GHz	$\leq 1\mu\text{W}$ (-30 dBm)/MHz

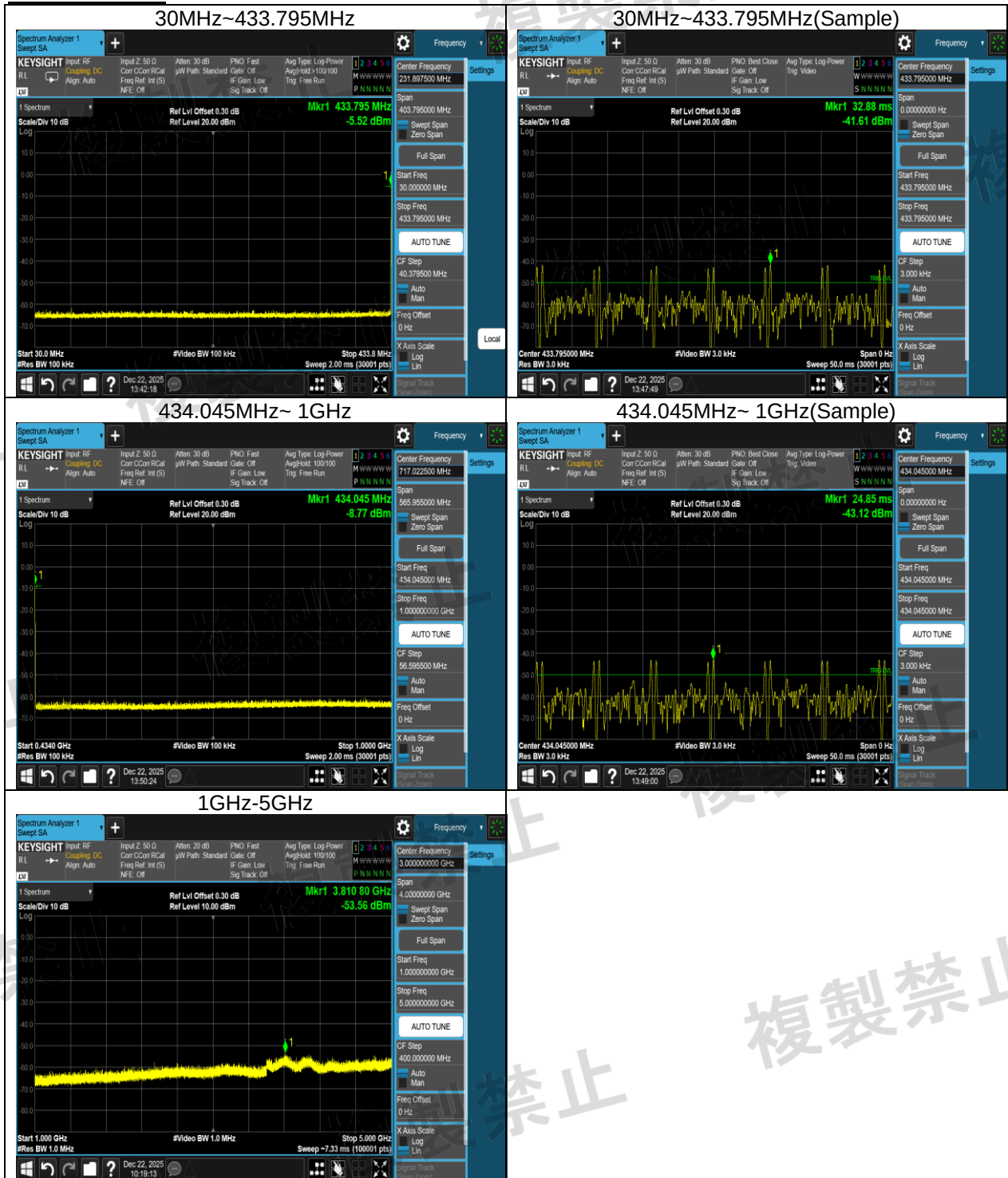
TEST RESULT

Measured Frequency		MHz	433.92	Result
Unwanted Emission Strength (E.I.R.P.)	30MHz-433.795MHz	dBm/100kHz	-44.6100	PASS
		MHz	433.795	----
	434.045MHz to 1GHz	dBm/100kHz	-46.1200	PASS
		MHz	434.045	----
	1GHz to 4GHz	dBm/MHz	-56.5600	PASS
		MHz	3810.8	----

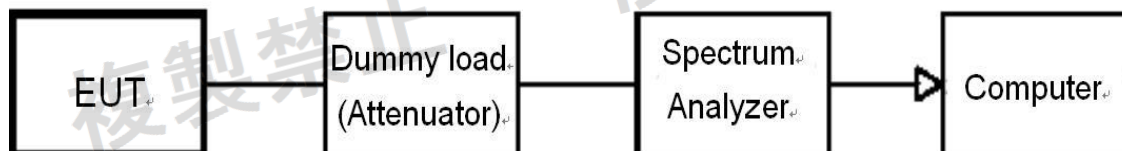
Note:

EIRP result value = measured value + antenna gain

TEST PLOTS



5.6 SECONDARY RADIATED EMISSION STRENGTH



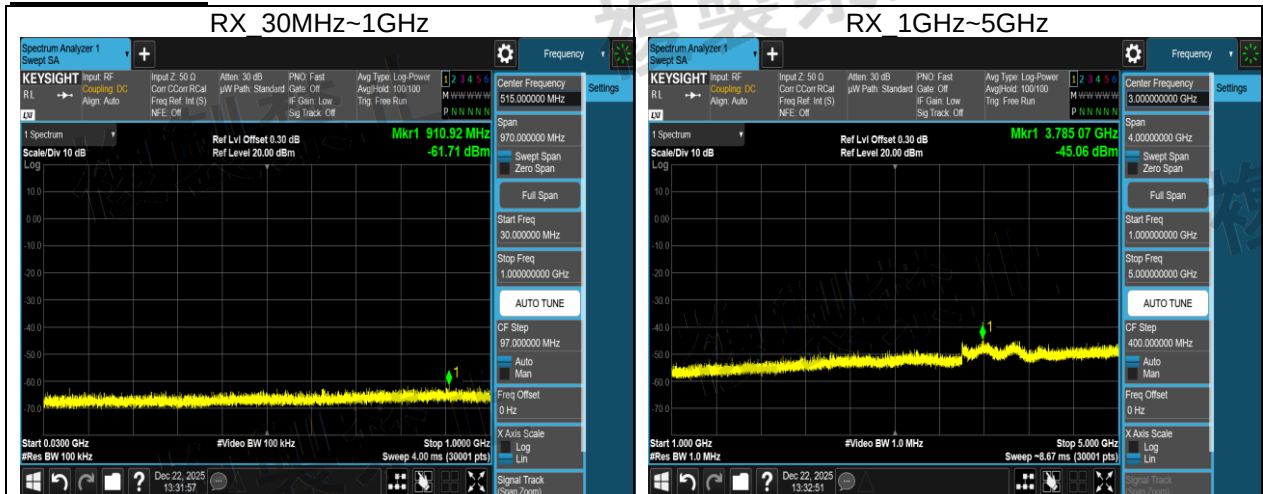
LIMIT

Frequency (MHz)	Limit
30 ~ 1000MHz	$\leq 4\text{nW} (-54\text{dBm}) / 100\text{kHz}$ (E.I.R.P)
1 ~ 4GHz	$\leq 4\text{nW} (-54\text{dBm}) / \text{MHz}$ (E.I.R.P)

TEST RESULT

Measured Frequency		MHz		Result
Secondarily Emitted Radio Wave Strength (E.I.R.P.)	Under 1GHz	nW/100kHz	0.00033806	PASS
		MHz	910.92	-----
	1GHz to 4GHz	nW/MHz	0.01563148	PASS
		MHz	3785.07	-----

TEST PLOTS



5.7 TRANSMISSION TIME RESTRICTION

Limit

Transmission Time Restriction

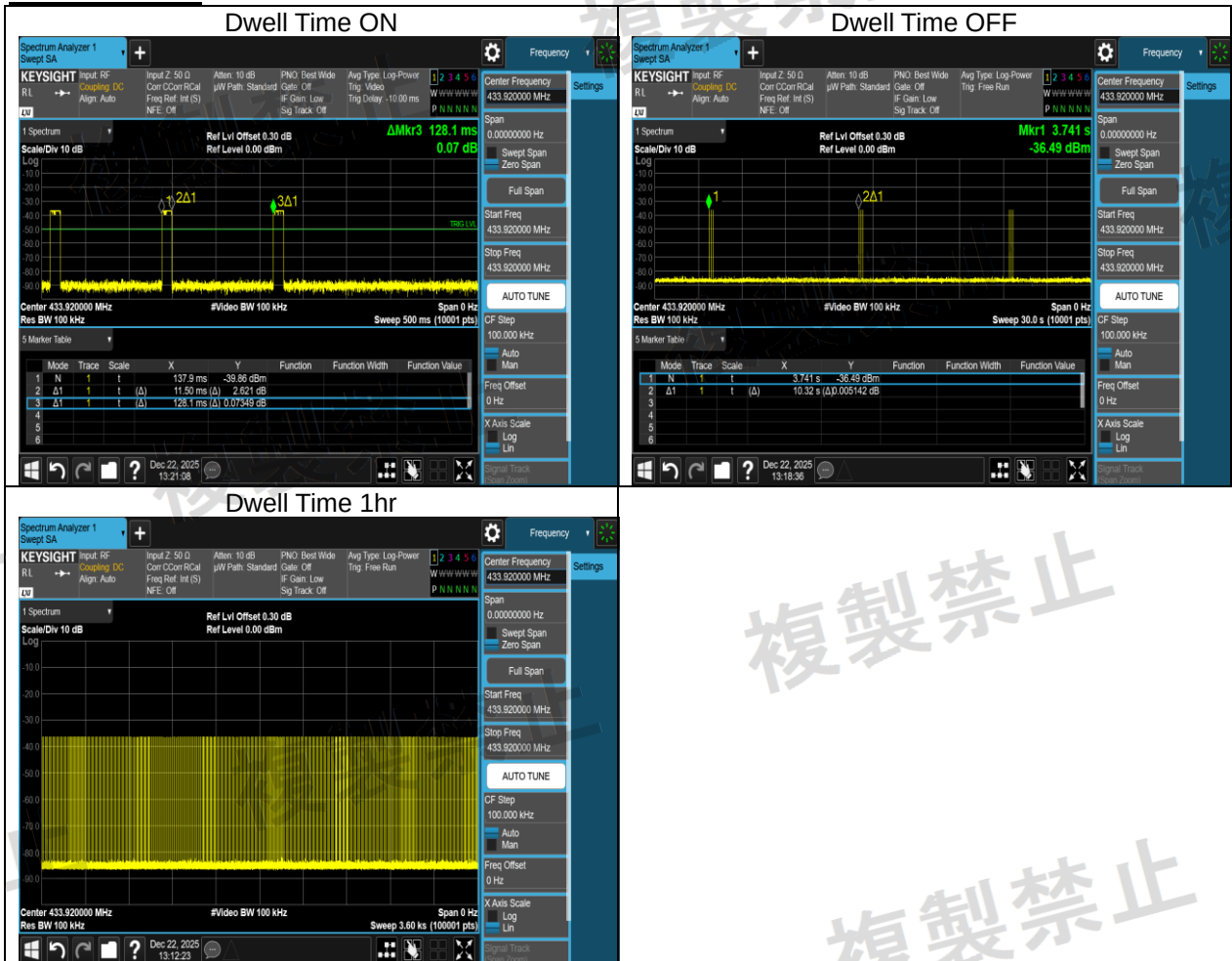
Total transmission time: 360/1hour or less

(Periodic transmission: transmission time within 1s / pause time over 1ms)

TEST RESULT

Measured Frequency	MHz	433.92	Result
Periodic transmission Restriction	ON Time	ms	PASS
	OFF Time	ms	PASS
Total transmission time Restriction	ON Time	s	PASS

TEST PLOTS



- End of Test Report -