

JAPAN MIC

TEST REPORT

For

Ningbo Deyi Smart Home Co., Ltd.

101-102, Building 2, No.341, Wuli Plate, Jiaochuan Street, Zhenhai District, Ningbo city, Zhejiang Province, China

Tested Model: WM24C/Z

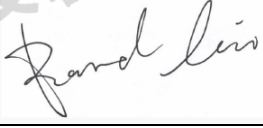
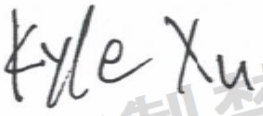
Report Type: Original Report	Product Name: Curtain Motor
Report Number: RQDA250828001-24A	
Report Date: 2025-09-29	
Reviewed By: Bard Liu	
Approved By: Kyle Xu	
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RQDA250828001-24A	R1V1	2025-09-29	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Ningbo Deyi Smart Home Co., Ltd.
Tested Model:	WM24C/Z
Product Name:	Curtain Motor
Power Supply:	DC 12V
RF Function:	Zigbee
Operating Band/Frequency:	2405-2480 MHz
RF output power:	5.0 mW
Modulation Type:	O-QPSK
★Maximum Antenna Gain:	2.57 dBi

Note: The maximum antenna gain was provided by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RQDA250828001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-08-28.)

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 of Article 2 Paragraph 1

Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan MIC Notice No.88 Appendix No.43

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

EUT TEST CONFIGURATION

Description of Test Configuration

Test channel list is as below,

The system was configured in testing mode which was provided by manufacturer, below is the channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	19	2445
12	2410	...	...
...	...	...	...
...	...	...	...
...	...	25	2475
18	2440	26	2480

EUT was tested with channel 11, 18 and 26.

The EUT has a voltage stabilizer: HT7533 and the fluctuation of power supply to the RF circuit of EUT is equal to or less than $\pm 1\%$. So exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

EUT Exercise Software

RF test tool: sscom5.13.1.exe

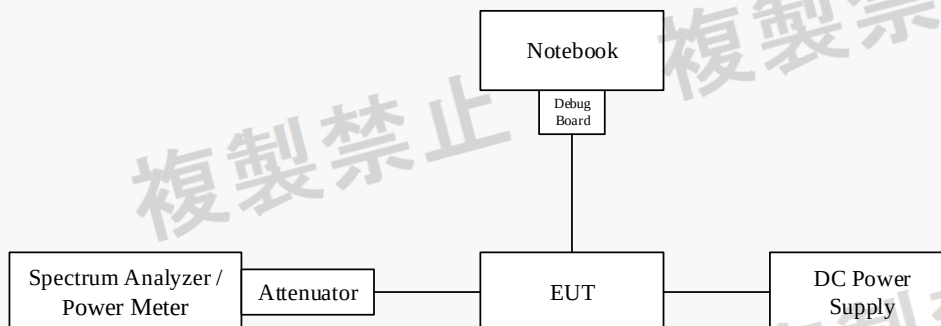
Zigbee power setting: 110

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Narda	Attenuator	10dB	010
ZHAOXIN	DC Power Supply	RXN-1503D	18R1503D09012
DELL	Notebook	GX620	D65874152
/	Debug Board	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To Port
RF Cable	0.2	Attenuator	EUT
Data Cable	0.8	EUT	Debug Board
Power Cable	1.0	EUT	DC Power Supply

Configuration of Test Setup

SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth	Compliant
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
4	Antenna Output Power and Output Power Tolerance	Compliant
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
6	Transmission Antenna Gain	Not Applicable (See Note 1)
7	Transmission Radiation Angle Width	Not Applicable (See Note 1)
8	Carrier sense capability	Not Applicable (See Note 3)
9	Frequency Hopping Dwell Time	Not Applicable (See Note 2)
10	Interference prevention function	Compliant
11	Construction Protection Confirmation	Compliant

Note:

1. This test item will not be applied to the transmission antenna which EIRP is less than 12.14dBm.
2. Testing is only required for FHSS system devices;
3. The test only required for bandwidth more than 26MHz and less than 40MHz.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Narda	Attenuator	10dB	10dB-01	2025-04-08	2026-04-07	BACL Cal	c)
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08	BACL Cal	c)
Rohde & Schwarz	SMBV100A Vector Signal Generator	SMBV100A	261558	2025-04-08	2026-04-07	BACL Cal	c)
Fluke	Digital Multimeter	15B+	45401661WS	2025-04-09	2026-04-08	BACL Cal	c)
Rohde & Schwarz	Vector Signal Generator	N5182B	MY53051592	2025-04-09	2026-04-08	BACL Cal	c)
MACOM	Power Combiner	2090-6214-00	/	2025-04-09	2026-04-08	BACL Cal	c)
ZHAOXIN	DC Power Supply	RXN-1503D	18R1503D09012	N/A	N/A	N/A	N/A
Agilent	Power Meter	E4419B	MY41291878	2025-04-08	2026-04-07	BACL Cal	c)

NOTE: Calibration Method

a): Calibration conducted by the National Institute of Information and Communications Technology~ NICT~ or a designated calibration agency under Article 102-18 paragraph (1)

b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~Japan Calibration Service System ~

c): 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)

d): Calibration conducted by using other equipment that listed above from a) to c)

FREQUENCY ERROR

Limit

The Tolerance of frequency shall be $\pm 50\text{ppm}$.

Test Procedure

Set the EUT to the measurement frequency without modulation.

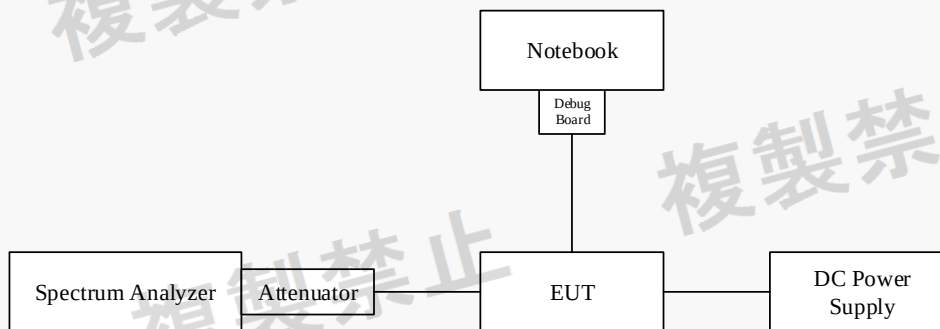
Setting of SA is following as: RB: 1 kHz / VB: 3 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode.

Setting of SA is following as: RB: 100 kHz / VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency, measure the 10dBc center frequency.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB)

Test Data: See Appendix

OCCUPIED BANDWIDTH

Limit

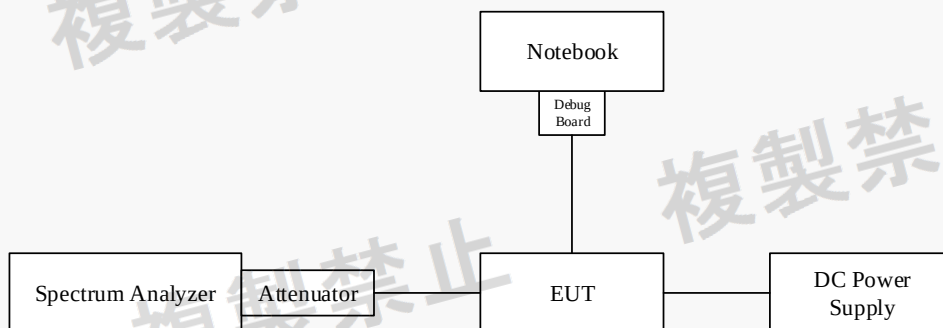
Occupied bandwidth: $FH \leq 83.5 \text{ MHz}$; $DS \leq 26 \text{ MHz}$; $26\text{MHz} < \text{OFDM} \leq 40 \text{ MHz}$

Others $\leq 26 \text{ MHz}$

Spread Bandwidth: $\geq 500 \text{ kHz}$ (FH, DS), Spread factor > 5 .

Test Procedure

1. Setting of SA is following as: RB: 30 kHz / VB: 30 kHz / 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. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor = Spread Bandwidth/modulation rate.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB)

Test Data: See Appendix

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

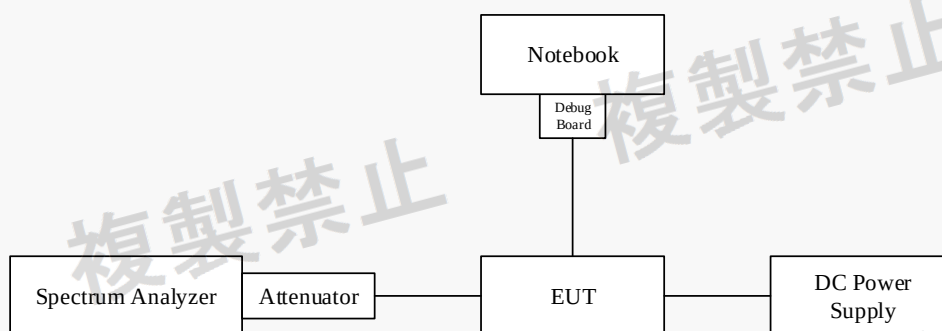
$30\text{MHz} \leq f \leq 1\text{GHz}: \leq 2.5\mu\text{W/MHz}$

$1\text{GHz} < f < 2387\text{MHz}; 2496.5\text{MHz} < f \leq 12500\text{MHz}: \leq 2.5\mu\text{W/MHz}$

$2387\text{MHz} \leq f \leq 2400\text{MHz}; 2483.5\text{MHz} < f \leq 2496.5\text{MHz}: \leq 25\mu\text{W/MHz}$

Test Procedure

Measurement System Diagram



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB)

Conditions of Application Equipment (EUT)

The modulation state shall be in continuously transmitting mode.

Spectrum Analyzer Conditions

Setting of SA start 30MHz and stop frequency 1GHz, RB: 100 kHz/VB: 100 kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W}$.

Setting of SA start 1GHz and stop frequency 2387MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W}$.

Setting of SA start 2387MHz and stop frequency 2400MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak reading value + cable loss shall be less than $25\mu\text{W}$.

Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak reading value + cable loss shall be less than $25\mu\text{W}$.

Setting of SA start 2496.5MHz and stop frequency 12500MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W}$.

Test Data: See Appendix

ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

Limit

- ≤ 3 mW/MHz (FHSS from 2402-2480 MHz)
- ≤ 10 mW/MHz (OFDM, DSSS from 2400-2483.5 MHz)
- ≤ 10 mW (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -80%.

E.i.r.p:

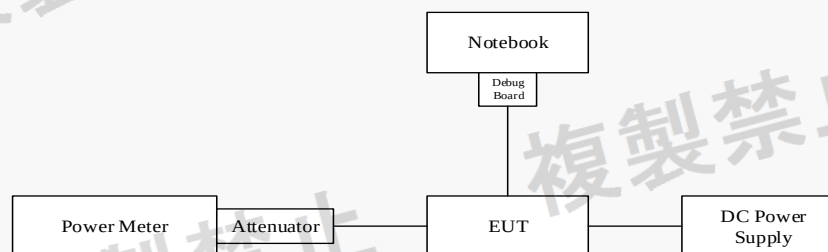
≤ 12.14 dBm

Test Procedure

Step1; Measure the total power by Power Meter (with Average Sensor).

Step2; If it's the burst wave, please measure the burst ratio. Then calculate the real total power by burst ratio.

Test Setup Block diagram



Test Data: See Appendix

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

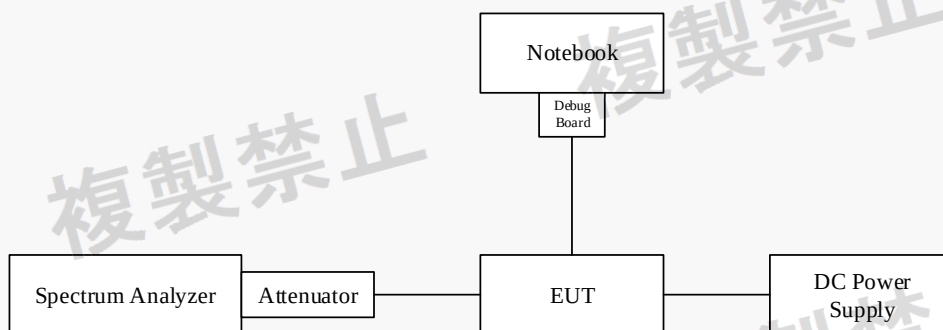
Limit

$\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)

$\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

Measurement System Diagram



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB)

Conditions of Application Equipment (EUT)

The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions

Start Frequency: Start Frequency of frequency range to measure (30 MHz or 1 GHz)

Stop Frequency: Stop Frequency of frequency range to measure (1 GHz or 12.5 GHz)

Span: AUTO (Measurement Range)

RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz

RBW: 1 MHz, VBW: 1 MHz for Frequency > 1 GHz

Sweep time: AUTO or more

Sweep mode: Auto Sweep

Detection: Positive Peak

Reference Level: Enough level for maximum dynamic range

Test Data: See Appendix

INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

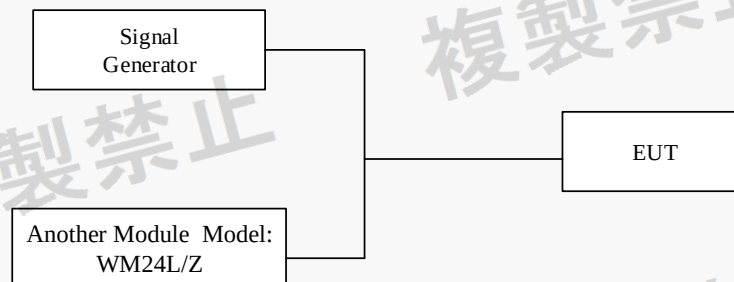
Test Procedure

In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.



Test Result: Good.

CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

The EUT use a shell cover with the super glue in the gap, the shielding cannot be opened easily. Please refer the photo below.

APPENDIX-TEST DATA**FREQUENCY ERROR****Environmental Conditions & Test Information:**

Test Date:	2025-09-13
Temperature:	25.3℃
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*Test Mode: Transmitting*

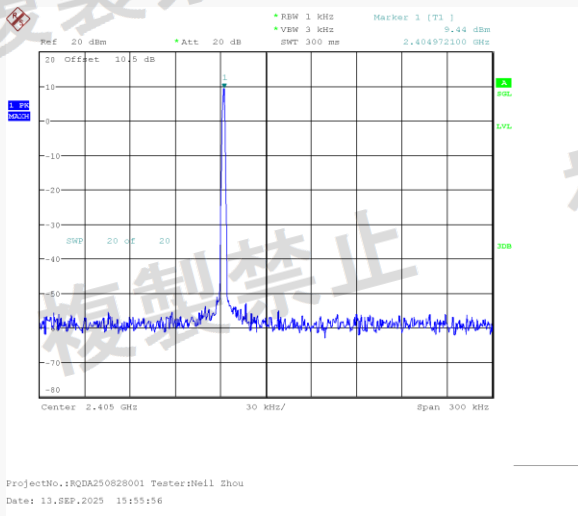
Frequency (MHz)	Voltage (V_{dc})	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
2405	12.00	2404.97210	-11.60	± 50
2440		2439.97180	-11.56	
2480		2479.97180	-11.37	

Note:Frequency Tolerance = (Measure Frequency - Frequency)/Frequency*10⁶

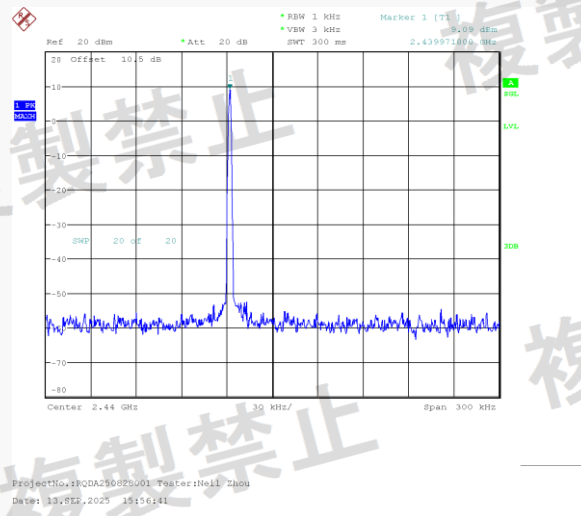
Please refer to the plots for normal voltage test.

Please refer to the following plots for normal voltage:

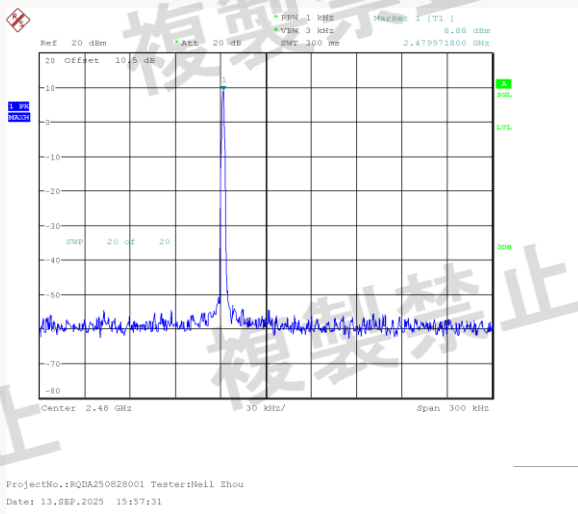
Frequency: 2405MHz



Frequency: 2440MHz



Frequency: 2480MHz



OCCUPIED BANDWIDTH**Environmental Conditions & Test Information:**

Test Date:	2025-09-13
Temperature:	25.3℃
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*Test Mode: Transmitting*

Frequency (MHz)	Low Channel	Middle Channel	High Channel	Limit
Occupied Bandwidth (MHz)	2.240	2.245	2.250	≤26MHz

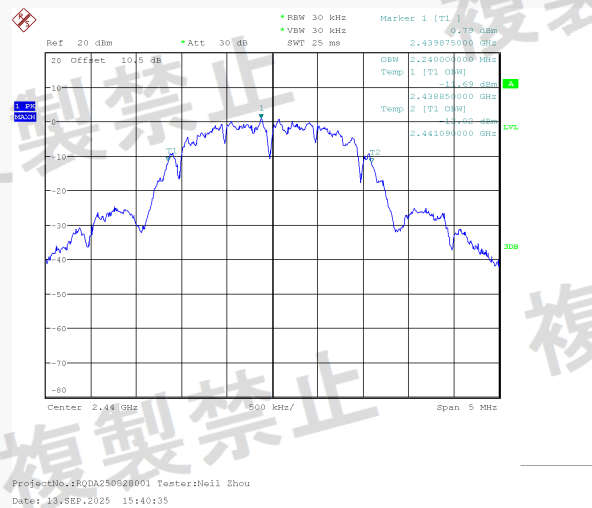
Please refer to the following plots for normal voltage:

Occupied Bandwidth:

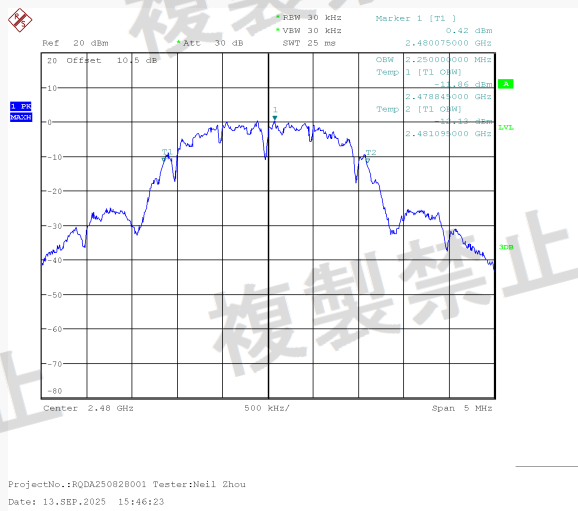
Low Channel



Middle Channel



High Channel



TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Environmental Conditions & Test Information:

Test Date:	2025-09-13
Temperature:	25.3℃
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

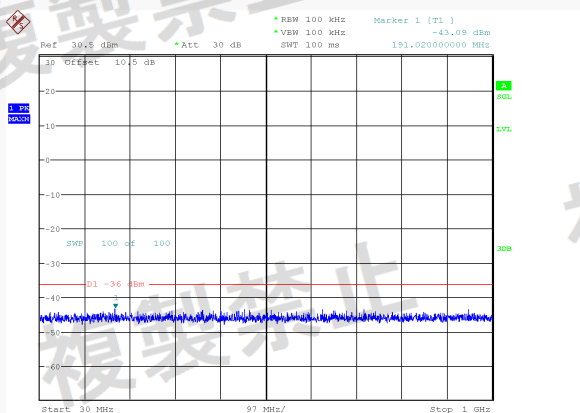
Test Result: Compliant

Test Mode: Transmitting

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)
		Start(MHz)	Stop(MHz)				
Low	Band I (100kHz)	30	1000	191.02	-43.09	0.049	0.25
	Band II (1MHz)	1000	2387	2348.8575	-37.76	0.167	2.50
	Band III (1MHz)	2387	2400	2399.8375	-34.83	0.329	25
	Band IV (1MHz)	2483.5	2496.5	2486.5615	-35.99	0.252	25
	Band V (1MHz)	2496.5	12500	11074.50125	-36.87	0.206	2.50
Middle	Band I (100kHz)	30	1000	731.31	-43.09	0.049	0.25
	Band II (1MHz)	1000	2387	2200.4485	-37.51	0.177	2.50
	Band III (1MHz)	2387	2400	2394.969	-37.21	0.190	25
	Band IV (1MHz)	2483.5	2496.5	2490.988	-36.87	0.206	25
	Band V (1MHz)	2496.5	12500	3511.85525	-35.98	0.252	2.50
High	Band I (100kHz)	30	1000	547.98	-42.34	0.058	0.25
	Band II (1MHz)	1000	2387	2141.501	-37.80	0.166	2.50
	Band III (1MHz)	2387	2400	2398.908	-36.90	0.204	25
	Band IV (1MHz)	2483.5	2496.5	2483.5195	-28.12	1.542	25
	Band V (1MHz)	2496.5	12500	10959.461	-35.88	0.258	2.50

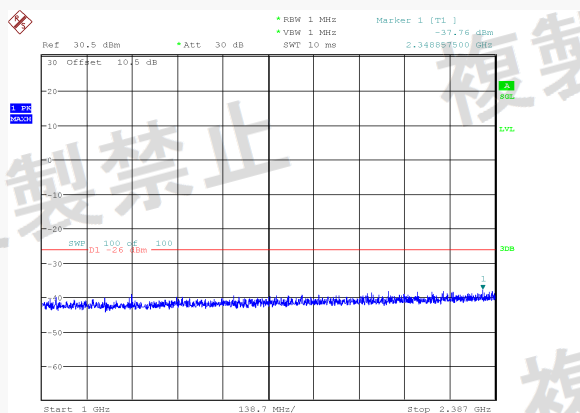
Please refer to the following plots for normal voltage:

Low Channel 30MHz~1GHz



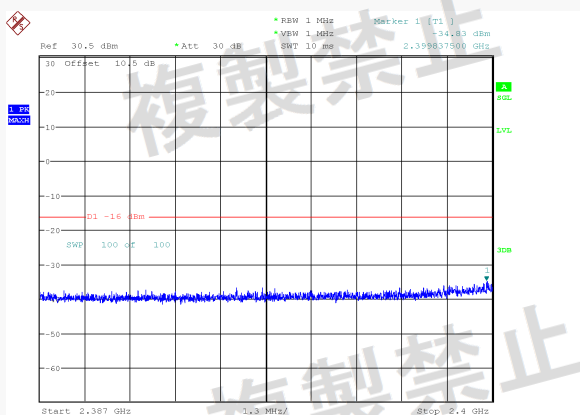
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:34:57

Low Channel 1GHz~2387MHz



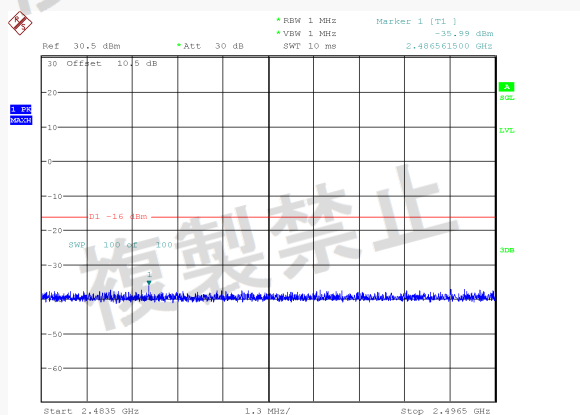
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:35:11

Low Channel 2387MHz~2400MHz



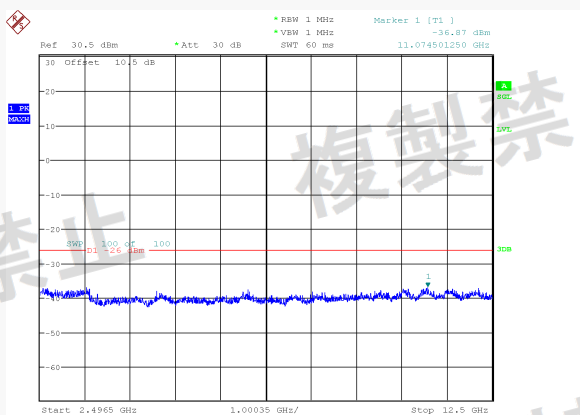
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Date: 13.SEP.2025 15:35:23

Low Channel 2483.5MHz~2496.5MHz



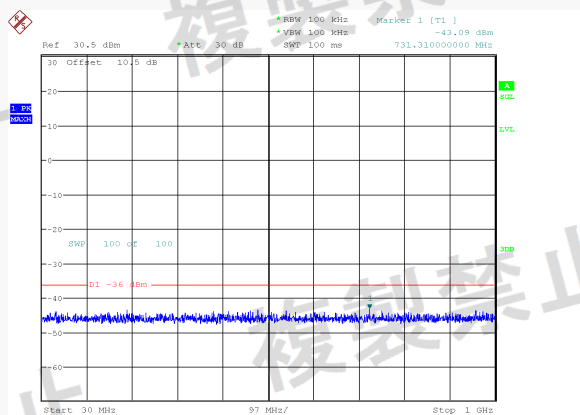
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:35:34

Low Channel 2496.5MHz~12500MHz



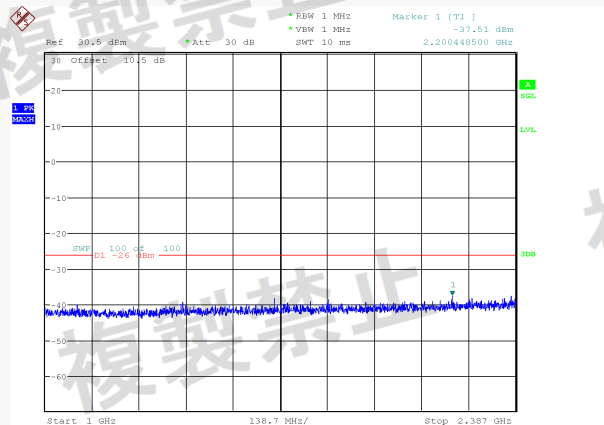
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Date: 13.SEP.2025 15:36:04

Middle Channel 30MHz~1GHz



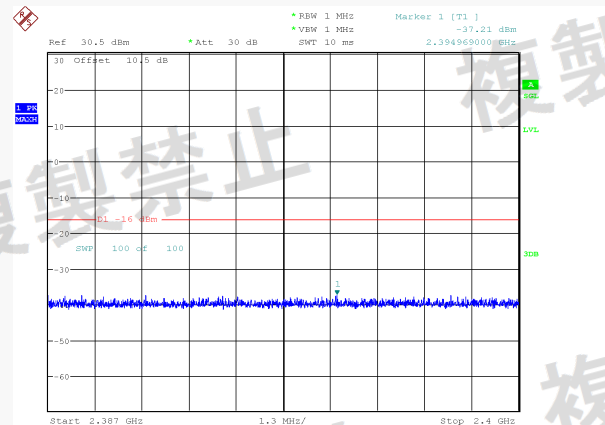
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:40:55

Middle Channel 1GHz ~2387MHz



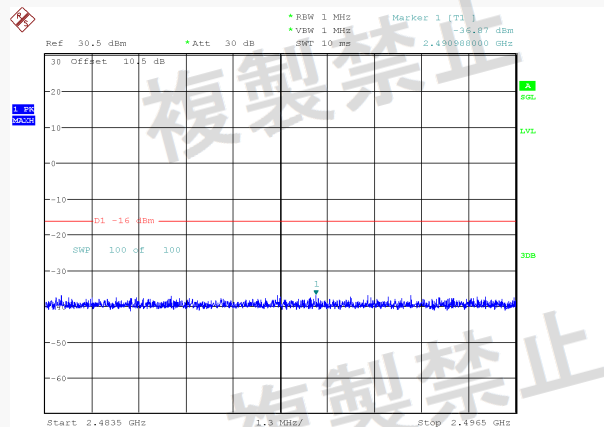
ProjectNo.:RQDA250828001 Tester:Nell Zhou
Date: 13.SEP.2025 15:41:09

Middle Channel 2387MHz ~2400MHz



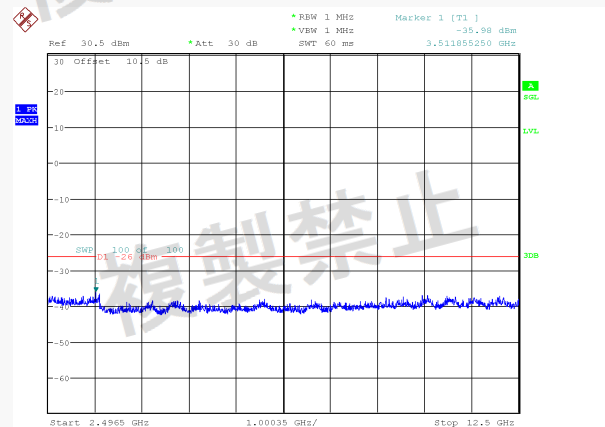
ProjectNo.:RQDA250828001 Tester:Nell Zhou
Date: 13.SEP.2025 15:41:21

Middle Channel 2483.5MHz ~2496.5MHz



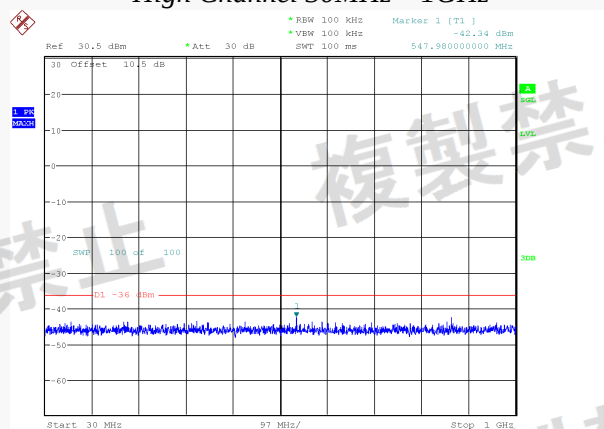
ProjectNo.:RQDA250828001 Tester:Nell Zhou
Date: 13.SEP.2025 15:41:33

Middle Channel 2496.5MHz ~12500MHz



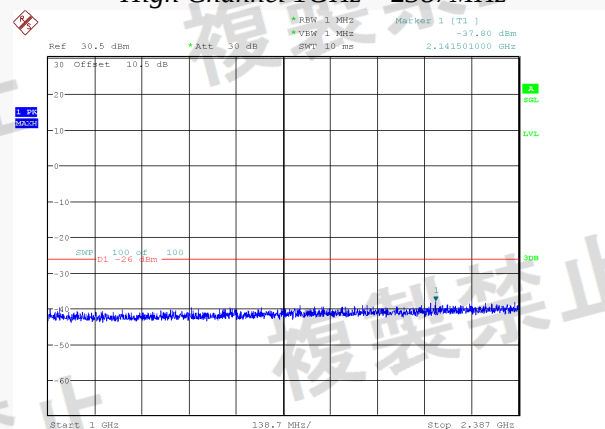
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Date: 13.SEP.2025 15:42:02

High Channel 30MHz ~1GHz



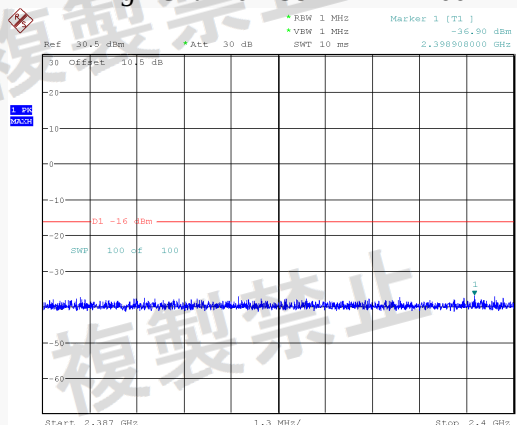
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High Channel 1GHz ~2387MHz



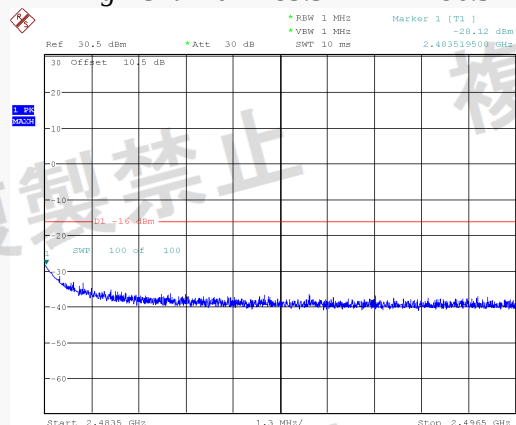
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Date: 13.SEP.2025 15:46:57

High Channel 2387MHz ~2400MHz



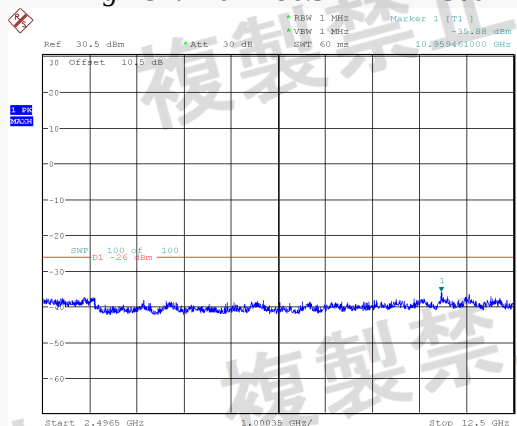
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Date: 13.SEP.2025 15:47:09

High Channel 2483.5MHz ~2496.5MHz



ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:47:20

High Channel 2496.5MHz ~12500MHz



ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 15:47:50

ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE**Environmental Conditions & Test Information:**

Test Date:	2025-09-13
Temperature:	25.3℃
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*Test Mode: Transmitting*

Frequency (MHz)	Low Channel	Middle Channel	High Middle
Voltage (Vdc)	12.00		
Antenna Output Power (dBm)	6.34	6.54	6.40
Antenna Output Power (mW)	4.305	4.508	4.365
EIRP (dBm)	8.91	9.11	8.97
Declared Power (mW)	5.00	5.00	5.00
Antenna Output Power Tolerance (%)	-13.90	-9.84	-12.70
Antenna Power Limit	10mW		
EIRP Limit	12.14dBm		
Antenna Tolerance Limit	+20% ~ -80%		
Result	Pass		

Note 1: Antenna Power Error = (Antenna Output Power - Declared Antenna power)/ Declared Antenna power *100%

Note 2: Antenna gain is 2.57 dBi.

Declared Antenna power is 5.0 mW.

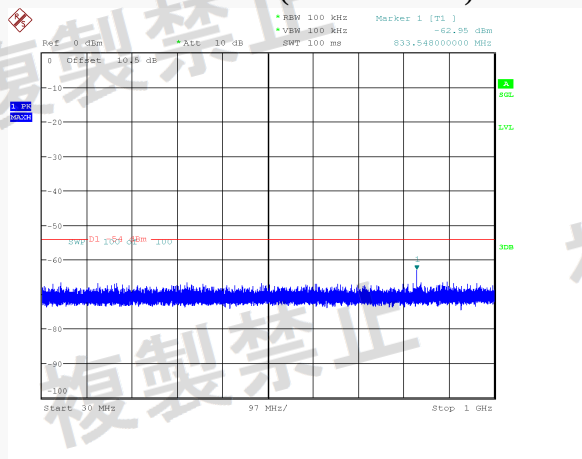
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY**Environmental Conditions & Test Information:**

Test Date:	2025-09-13
Temperature:	25.3℃
Relative Humidity:	50 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*Test Mode: Receiving*

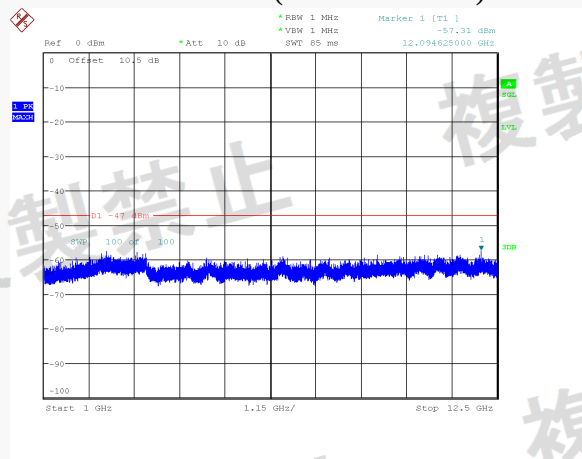
Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)
		Start(MHz)	Stop(MHz)				
Low	Band I (100kHz)	30	1000	833.548	-62.95	0.507	4
	Band II (1MHz)	1000	12500	12094.625	-57.31	1.858	20
Middle	Band I (100kHz)	30	1000	601.815	-65.86	0.259	4
	Band II (1MHz)	1000	12500	2373.675	-57.51	1.774	20
High	Band I (100kHz)	30	1000	812.402	-66.15	0.243	4
	Band II (1MHz)	1000	12500	10114.325	-56.92	2.032	20

Low Channel(30MHz~1GHz)



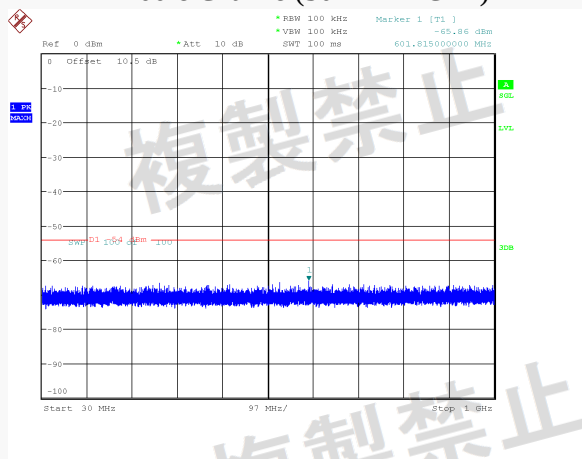
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:02:03

Low Channel(1GHz~12.5GHz)



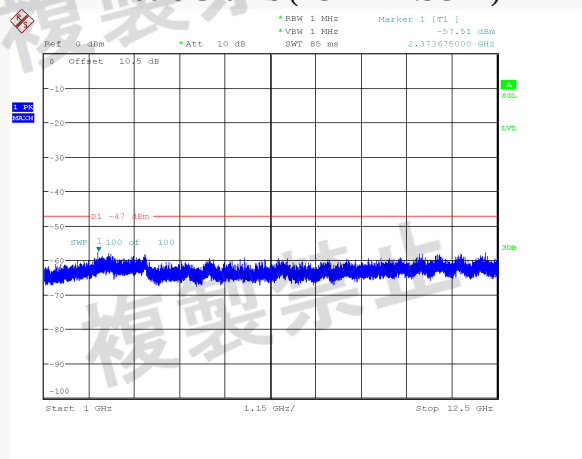
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:02:04

Middle Channel(30MHz~1GHz)



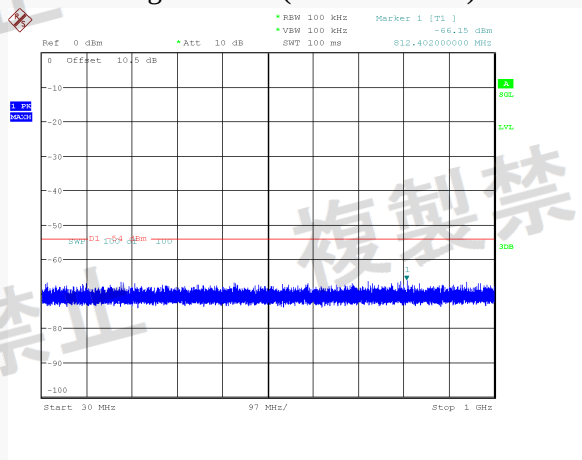
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:03:17

Middle Channel(1GHz~12.5GHz)



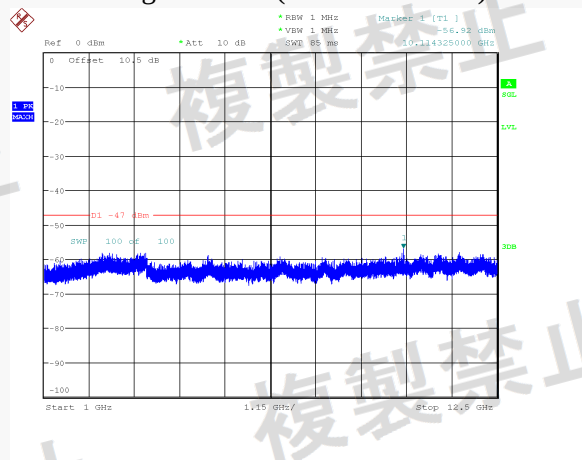
ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:03:58

High Channel(30MHz~1GHz)



ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:04:31

High Channel(1GHz~12.5GHz)



ProjectNo.:RQDA250828001 Tester:Neil Zhou
Date: 13.SEP.2025 16:05:12

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

****END OF REPORT****