

TEST REPORT

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Report Number: 2601P11316E-RF-07B

Test Standard (s)

Item 19-2 of Article 2 Paragraph 1

Sample Description

Product Type: A2L
Model No.: PF005-L
Multiple Model(s) No.: N/A
Trade Mark: bambulab
Date Received: 2026-01-16
Issue Date: 2026-05-15

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Wills Yu

Wills Yu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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Bay Area Compliance Laboratories Corp. (Shenzhen)

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TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
OBJECTIVE	4
TEST METHOD.....	4
MEASUREMENT UNCERTAINTY	5
TEST FACILITY	5
EUT TEST CONFIGURATION	6
SUMMARY OF TEST RESULTS	8
TEST EQUIPMENT LIST	9
REQUIREMENTS AND TEST PROCEDURES	10
FREQUENCY ERROR	10
OCCUPIED BANDWIDTH AND SPREAD BANDWIDTH	11
TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY	12
ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN.....	13
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY	14
CARRIER SENSE CAPABILITY	15
INTERFERENCE PREVENTION FUNCTION	16
TEST DATA AND RESULTS	17
FREQUENCY ERROR	17
OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH	18
TRANSMITTER SPURIOUS EMISSION STRENGTH	19
ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE	22
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY	23
INTERFERENCE PREVENTION FUNCTION	24
CARRIER SENSING FUNCTION.....	25
CONSTRUCTION PROTECTION CONFIRMATION	26
EUT PHOTOGRAPHS	27
TEST SETUP PHOTOGRAPHS	28

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601P11316E-RF-07B	Original Report	2026-05-15

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Technical Parameters	Support Technical	Wi-Fi
	Mode	802.11b
	Modulation Type	DSSS
	Frequency Range	2484MHz
	Rated Output Power	4.0mW/MHz
	Antenna Gain[#]	3.6dBi (It is provided by the applicant)
Nominal Power Supply		AC 100-120V, 50/60Hz
Sample serial number		3G8T-5(Assigned by BACL, Shenzhen)
Sample/EUT Status		Good condition
Adapter Information		N/A

Note: The equipment is equipped with 6 types of AC-to-DC power supply modules, the details are as follows:

Manufacturer	Model
MOSO	T30-T6250J240-150B0
MEGMEET	MPT150-24V-TZ-B
	MPT100-24V-TZ-B
CHUANGLIAN	A-150FGZ-24-C0
	A-100FGC-24
HuntKey	HKI100-240ND

Objective

The objective of the manufacturer is to demonstrate compliance with Certification Ordinance Article 2-1-19-2, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth and Spreading Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power And Output Power Tolerance
- Receiver Spurious Emission Strength
- Interference Prevention Function
- Carrier sense capability
- Construction Protection Confirmation

Test Method

MIC Notice No.88 of Jan. 26, 2004, Appendix No.44

Measurement Uncertainty

Item	Expanded Measurement uncertainty
Frequency Error	81.235Hz(k=1.96, 95% level of confidence)
Occupied Channel Bandwidth	52.29kHz(k=1.96, 95% level of confidence)
RF output power, conducted	1.57dB(k=1.96, 95% level of confidence)
Unwanted Emission, conducted	2.48dB(k=1.96, 95% level of confidence)
Temperature	±0.4°C
Supply voltages	DC±0.4%;AC±1%
Humidity	±2%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode which was selected by manufacturer.

For frequency 2484MHz, channel 14 was tested.

Channel	Frequency(MHz)
14	2484

Normal/Extreme Voltage Condition[#]

NV	Normal Voltage	100V _{AC}
LV	Low Voltage	90V _{AC}
HV	High Voltage	110V _{AC}

Note: extreme voltage test conditions were declared by manufacturer.

The EUT is AC-powered and is equipped with a built-in AC-to-DC power supply module, power deviation of the AC-to-DC power supply module output is less than 1% when extreme voltage supplied, therefore the AP board was tested with the normal voltage which powered by the DC Power supply.

Voltage Condition	Input (V _{AC})	RF System Voltage (V _{DC})
NV	100	24
LV	90	24
HV	110	24

EUT Exercise Software

Exercise Software [#]		EspRFTTestTool_v4.7_Manual.exe
Mode	Data rate	Power Level [#]
		CH14
802.11b	1Mbps	0

Note: The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power across all data rates bandwidths, and modulations.

Equipment Modifications

No modification was made to the EUT tested.

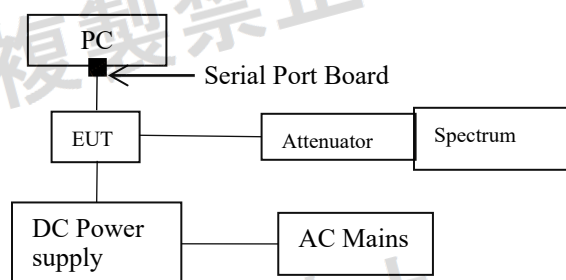
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Serial Port Board	Unknown	Unknown
DELL	PC	DESKTOP-1630AQ3	B0CB5M2
Grandstream	Router	GWN7665	C074AD251F0A
instek	DC Power Supply	GPS-3030DD	EM832096

External I/O Cable

Cable Description	Length(m)	From/Port	To
Unshielded Detachable AC Cable	1.2	AC Mains	DC Power supply
Unshielded Detachable DC Cable	0.3	EUT	DC Power supply

Configuration of Test Setup



SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.44 Article 2, Paragraph 1, Item 19-2	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth and Spreading 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	Carrier sense capability	Compliant
7	Frequency Hopping Dwell Time	Not Applicable
8	Interference Prevention Function	Compliant
9	Construction Protection Confirmation	Compliant

Not Applicable: Testing is only required for FHSS system devices.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31	CCIC	c)
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	141718	2025/07/18	2026/07/17	BACL Cal	c)
Keysight	MXG Vector Signal Generator	N5182B	MY53051503	2025/09/18	2026/09/17	CCIC	c)
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR	/	/
Fluke	Digital Multimeter	287	19000011	2025/04/29	2026/04/28	BACL Cal	c)
Unknown	10dB Attenuator	Unknown	F-03-EM190	2025/06/26	2026/06/25	BACL SZ	d)
HP	Power Splitter	11667A	1610A	2025/06/26	2026/06/25	BACL SZ	d)
Unknown	RF Cable	Cable RF3	Cable RF3	2025/09/17	2026/09/16	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)

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

REQUIREMENTS AND TEST PROCEDURES

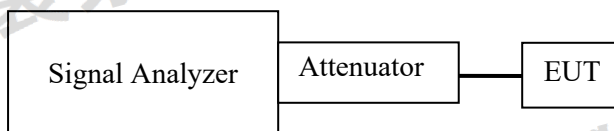
Frequency Error

Limit

50 ppm or below

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous carrier wave without modulation” mode.

Spectrum Analyzer Conditions

- Center Frequency: Frequency to measure (2484 MHz)
- RBW: 1kHz, VBW: 3kHz
- Span: 300kHz
- Sweep time: Auto
- Log scale: 10dB/Div, Data points: 501points (400 points or more)
- Detection: Positive Peak, Sweep mode: Continuous
- Marker: Spot

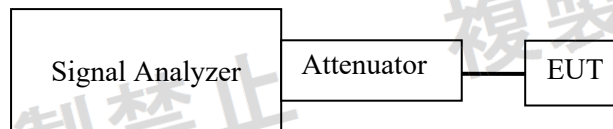
Occupied Bandwidth and Spread Bandwidth

Limit

- Occupied bandwidth: $DS \leq 26$ MHz
- Spread Bandwidth: ≥ 500 kHz (FH, DS), Spread factor > 10 .

Test Procedure

1. Setting of SA is following as: RB: 300 kHz / VB: 300 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. The modulation rate: MR=1.375 for 802.11b.



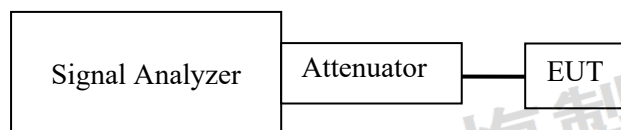
Transmitter Spurious Emission Strength And Unwanted Emission Intensity

Limit

- $30\text{ MHz} \leq f \leq 2458\text{ MHz}$: $\leq 2.5\mu\text{W/MHz}$
- $2458\text{ MHz} < f \leq 2471\text{ MHz}$: $\leq 25\mu\text{W/MHz}$
- $2497\text{ MHz} < f \leq 2510\text{ MHz}$: $\leq 25\mu\text{W/MHz}$
- $2510\text{ MHz} < f \leq 12500\text{ MHz}$: $\leq 2.5\mu\text{W/MHz}$

Test Procedure

Measurement System Diagram



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 1000MHz, RB: 100kHz/VB: 100k Hz, 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 $0.25\mu\text{W}$.
- Setting of SA start 1000MHz and stop frequency 2458MHz, 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 2458MHz and stop frequency 2471MHz, 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 2497MHz and stop frequency 2510MHz, 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 2510MHz 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 $2.5\mu\text{W}$.

Antenna Output Power, Antenna Power Tolerance And Transmission Antenna Gain

Limit

Antenna output power: $\leq 10 \text{ mW/MHz}$

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

E.R.P: $\leq 12.14 \text{ dBm/MHz}$

Antenna gain should be 2.14dBi or less (When an E.R.P is less than a limit, the shortage shall be compensated for by the gain of the transmitting antenna.)

Test Procedure

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyzer:

- Measurement Mode: Time Domain Power
- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: Zero Span.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Sweep Mode: Single.
- Detector: Sample.
- Trace Mode: Clear Write.

NOTE: The detector mode "Average" is often referred to as "RMS Average" or "Sample" but do not use Video Average.

When the trace is complete, use the time domain power function of the analyzer measure the mean power average across one pulse on period, this level is recorded as D.

D shall be recorded in the test report.

The maximum PD, which is e.r.p. PSD (spectral density power) or power, is calculated from the above measured value D, and the applicable antenna assembly gain "G" in dBd, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

$$PD = D + G$$



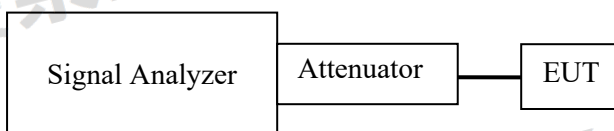
Receiver Spurious Emission And Unwanted Emission Intensity

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



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 (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

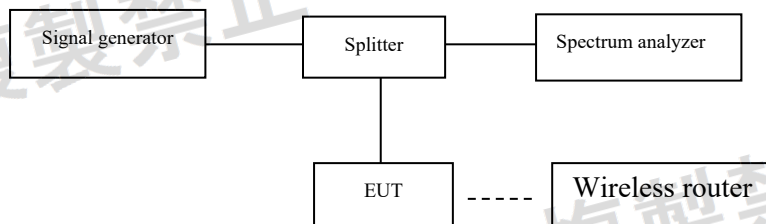
Carrier Sense Capability

Limit

EUT stop RF transmission signal after carrier inject to EUT

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The EUT state shall be “normal mode link with wireless router”.

Test Procedure

- SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG.
- Turn off the RF signal of the SG.
- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA: RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
- SG RF signal on.
- EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

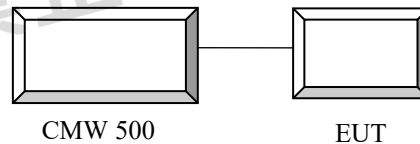
Interference Prevention Function

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

Measurement System Diagram



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 DATA AND RESULTS

Frequency Error

Test Information:

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Test Condition: NV

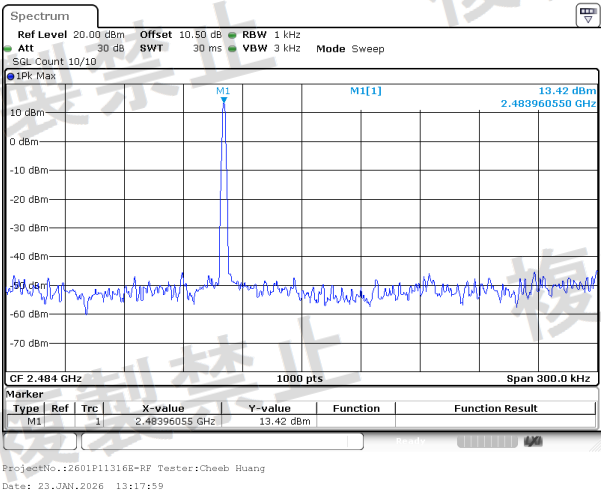
Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Verdict
Single Carrier	2484	2483.96055	-15.88	± 50	Pass

Note:

$$\text{Frequency Tolerance} = (\text{Measure Frequency} - \text{Frequency}) / \text{Frequency} * 10^6$$

Test Condition: NV

2484MHz



Occupied Bandwidth and Spreading Bandwidth

Test Information:

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Test Condition: NV

Test Items	Measured Result	Limit	Verdict
Occupied bandwidth (MHz)	19.24	≤ 26	Pass
Spreading bandwidth (MHz)	14.16	≥ 0.5	Pass
Spreading Factor	10.298	≥ 10	Pass

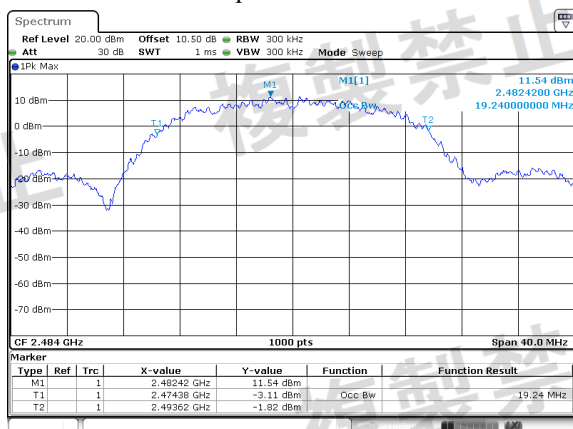
Note1: Spread factor = spread bandwidth/modulation rate

Note2: Modulation rate: 802.11b = 1.375

Test Condition: NV

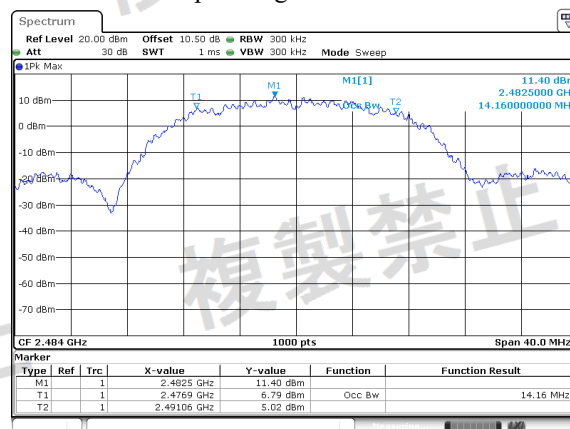
802.11b_2484MHz

Occupied Bandwidth



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:08:52

Spreading Bandwidth



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:09:02

Transmitter Spurious Emission Strength**Test Information:**

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

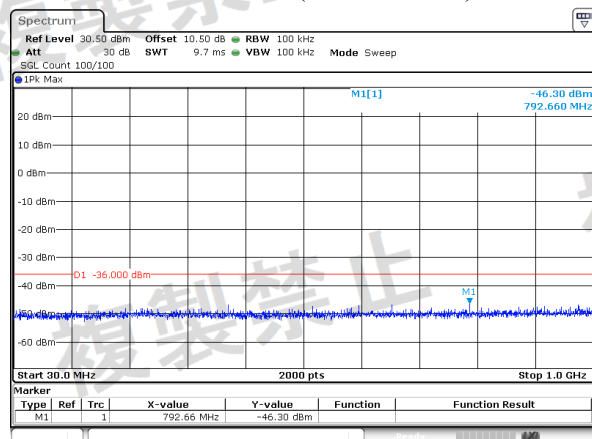
Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Test Condition: NV**802.11b**

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
CH14	Band I (100kHz)	30	1000	792.66	-46.30	0.02	0.25	Pass
	Band II (1MHz)	1000	2458	2456.91	-29.82	1.04	2.50	Pass
	Band III (1MHz)	2458	2471	2467.7533	-21.63	6.87	25	Pass
	Band IV (1MHz)	2497	2510	2500.6433	-20.33	9.28	25	Pass
	Band V (1MHz)	2510	12500	2512.5	-29.00	1.26	2.50	Pass

Test Condition: NV

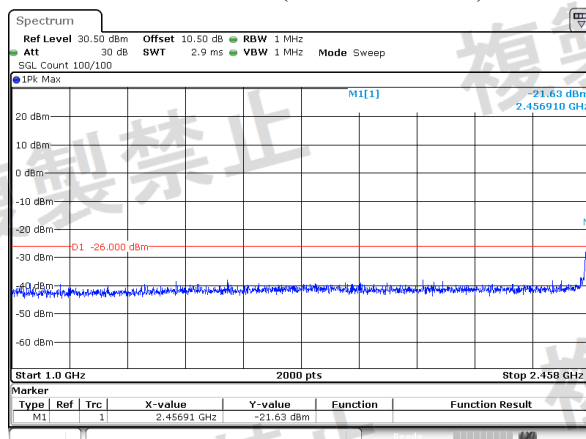
802.11b, CH14(30MHz~1GHz)



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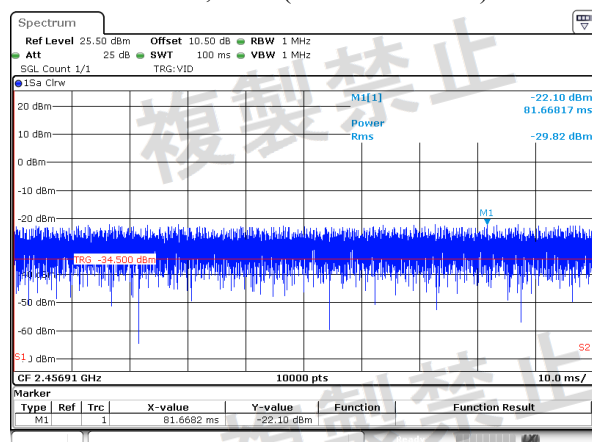
802.11b, CH14(1GHz~2.458GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

Date: 23.JAN.2026 13:09:24

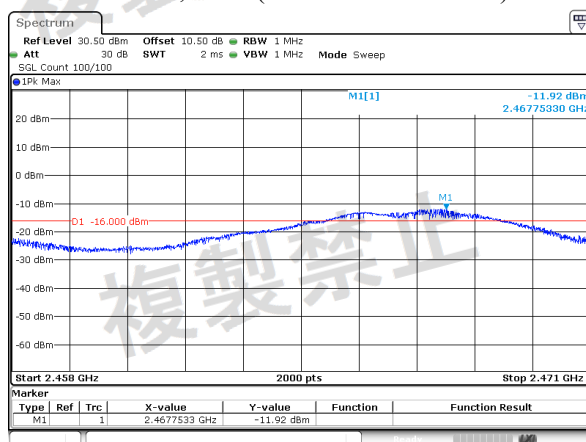
802.11b, CH14(1GHz~2.458GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

Date: 23.JAN.2026 13:11:44

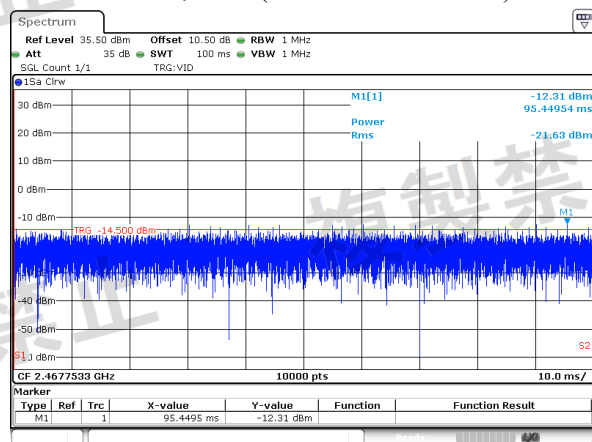
802.11b, CH14(2.458GHz~2.471GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

Date: 23.JAN.2026 13:11:51

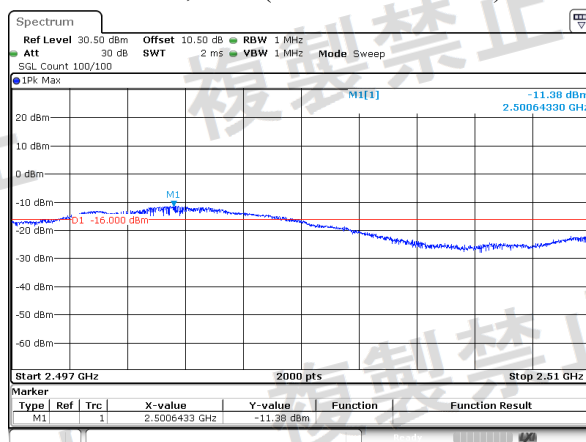
802.11b, CH14(2.458GHz~2.471GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

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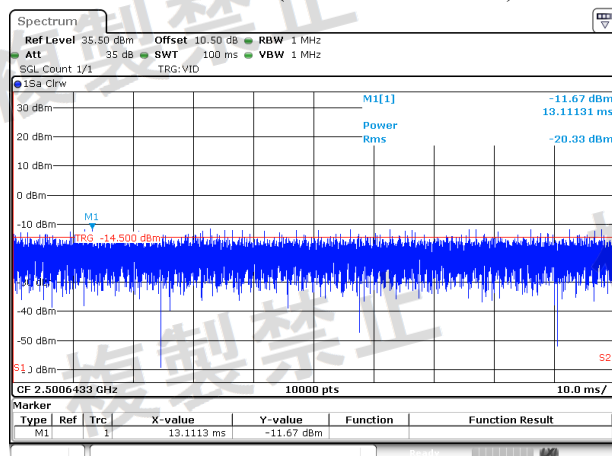
802.11b, CH14(2.497GHz~2.51GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

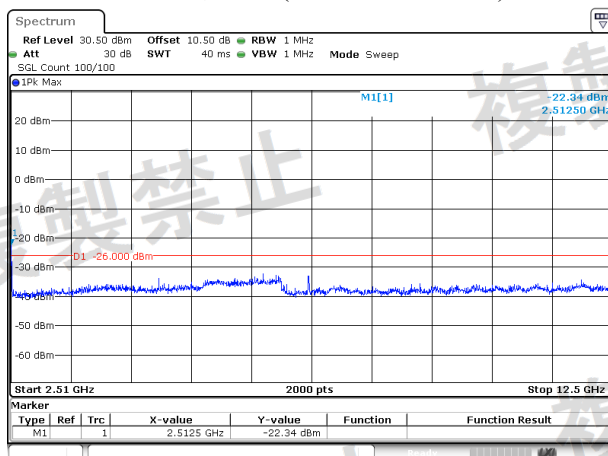
Date: 23.JAN.2026 13:12:47

802.11b, CH14(2.497GHz~2.51GHz)



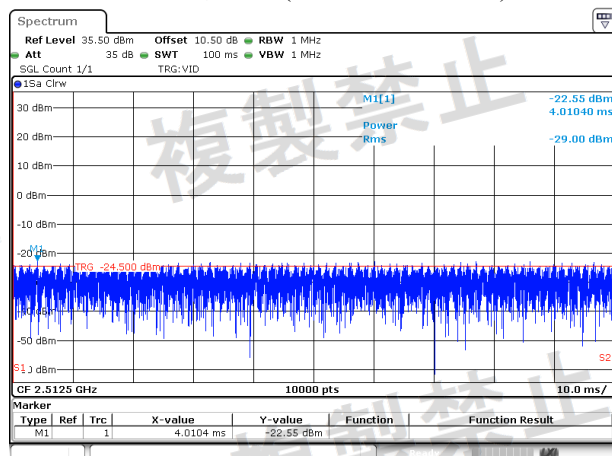
ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:13:34

802.11b, CH14(2.51GHz~12.5GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:13:57

802.11b, CH14(2.51GHz~12.5GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:15:07

Antenna Output Power and Output Power Tolerance

Test Information:

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Test Condition: NV

Mode	Antenna gain (dBi)	Declared power (mW/MHz)
802.11b	3.6	4.0

Mode	Channel	Antenna output power (dBm/MHz)	Antenna output power(mW/MHz)		Antenna output tolerance(%)		ERP (dBm/MHz)		Verdict
			Result	Limit	Result	Limit	Result	Limit	
802.11b	CH14	5.94	3.926	≤ 10	-1.85	-80~+20	7.39	≤ 12.14	Pass

Note:

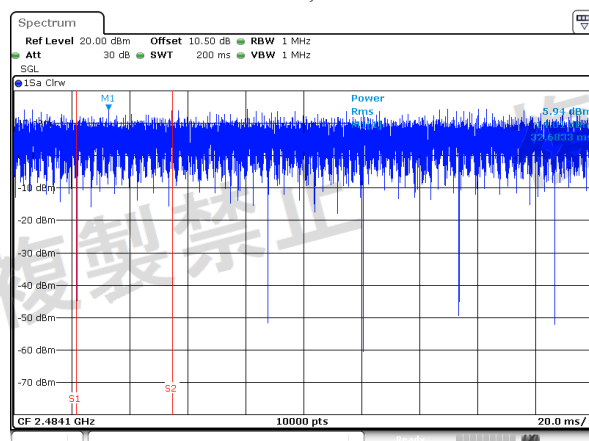
Antenna output power(mW/MHz)= $10^{[\text{Antenna output power(dBm/MHz)} / 10]}$

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power * 100

ERP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain(dBi)-2.15.

Test Condition: NV

802.11b, CH14



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang
Date: 23.JAN.2026 13:16:34

Receiver Spurious Emission and Unwanted Emission Intensity

Test Information:

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Receiving
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

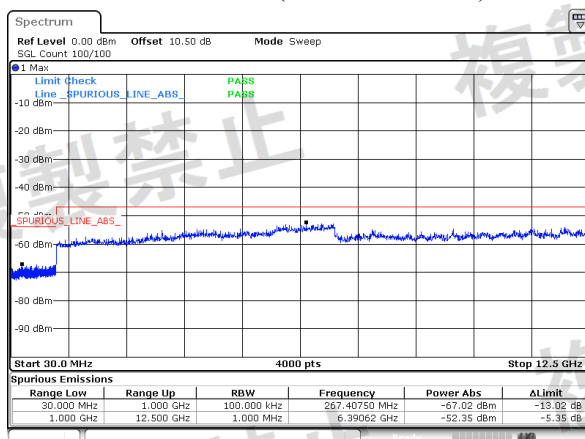
Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Test Condition: NV

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start (MHz)	Stop (MHz)					
802.11b	CH14	Band I (100kHz)	30	1000	267.408	-67.02	0.199	4	Pass
		Band II (1MHz)	1000	12500	6390.62	-52.35	5.821	20	Pass

Test Condition: NV

802.11b, CH14(30MHz~12.5GHz)



ProjectNo.:2601P11316E-RF Tester:Cheeb Huang

Date: 23.JAN.2026 13:41:42

Interference Prevention Function**Test Information:**

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Communication
Tester:	Cheeb Huang	Test Result:	Good

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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Carrier Sensing Function**Test Information:**

Sample No.:	3G8T-5	Test Date:	2026/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.2
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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.

Result

The EUT has screws which can't be opened easily, please see the EUT photos.

EUT PHOTOGRAPHS

Please refer to the attachment 2601P11316E-RF-EXP External photo and 2601P11316E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601P11316E-RF-TSPB Test Setup photo.

***** END OF REPORT *****