



Acknowledgement Letter

Supplier's product name: CGNW116 WiFi 2.4G Rod-shaped Antenna - V02

Supplier's specification model: CA42

Supplier's Company Name and Buyer's Company Name: _____

Name of the product to be purchased by the buyer: _____

Desired specification and model: CA42

Demanders Material Code: 1065031100011

Date: 2025-9-4

(Regarding the name and specification model of this product, both parties can choose one of the naming rules of the supplier and the buyer to be used in the transaction process.)

Supplier's Confirmation (Please sign the date when signing)

Review and Approval	Confirm

Rui Ming Technology confirms (please sign the date when signing)

Confirm

Supplier: Shenzhen Jiexuntong Wireless Technology Co., Ltd.

Address: No. 409, Building A, Tong'an Logistics, Aviation Road, Guwu District, Shenzhen City

Telephone: 0755-23731203

Fax: 0755-27541661

E-mail: rfding@jxtant.com

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Acknowledgment of Change in Resume

Editi on	Date	Change Description	Remark
R/A	2025-9-4	initial sample	



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Number: 0755-23731203 Website:

<http://www.jxtant.com>





1. Antenna Picture



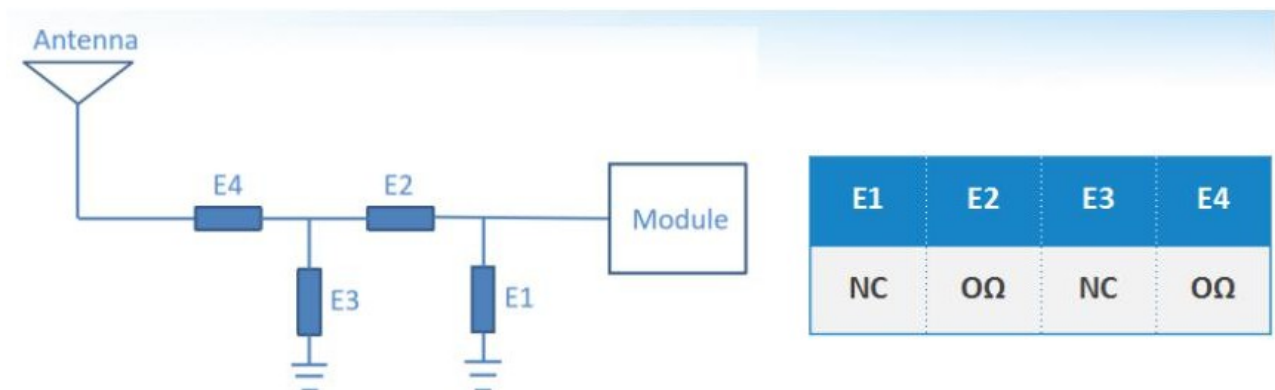
2. Test Environment

2.1. Environmental Treatment

None

3. Antenna Matching

3.1. Antenna



Our company has not made any changes to the original antenna front-end matching.

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4. Technical Specifications

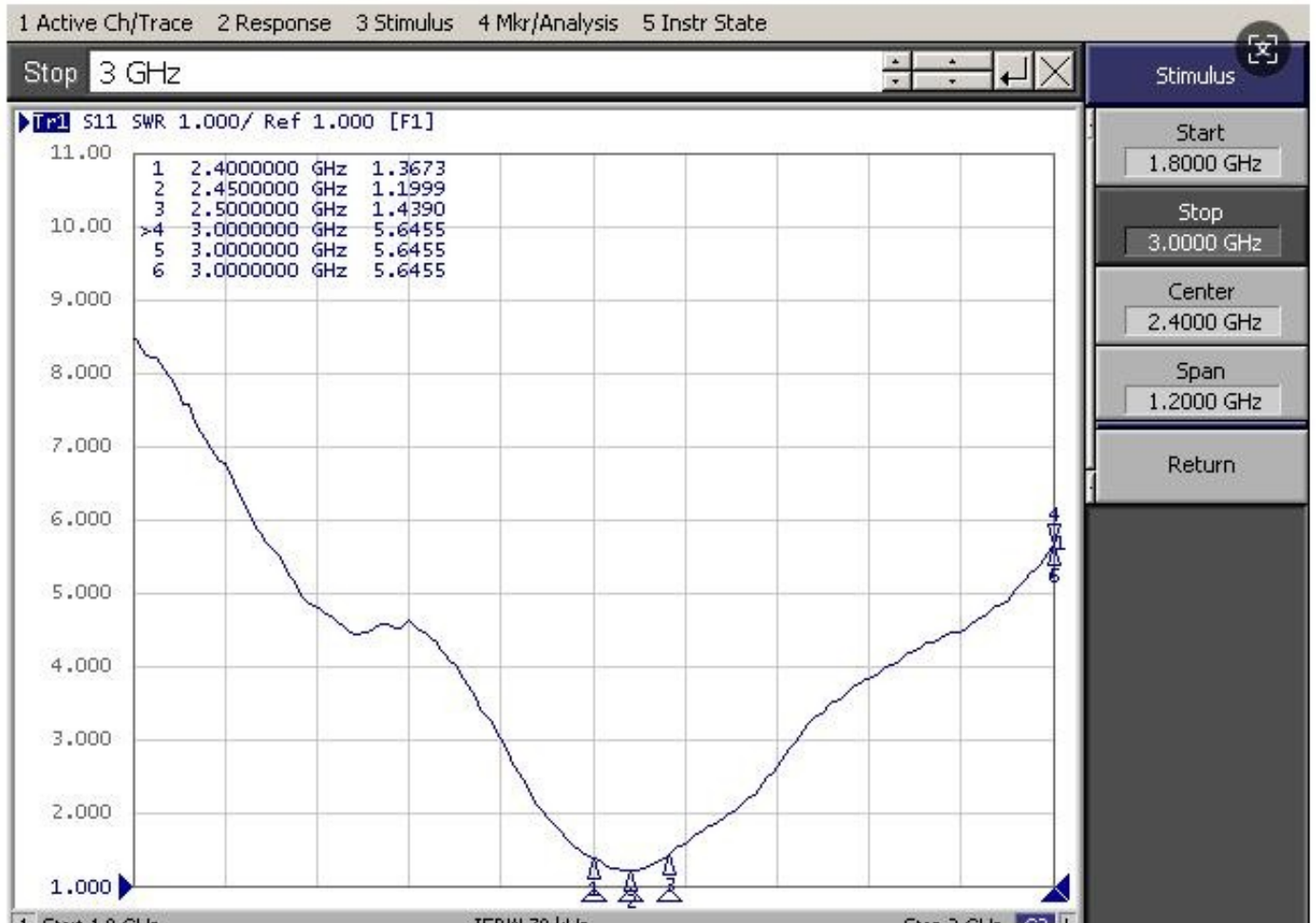
4.1 Electrical specification

Technical Specifications	
Frequency range (MHz)	2400–2500MHz
Polarization method	Vertical polarization
Gain range (dBi)	$\leq 1-2.01$ dBi
Efficiency range	55–70
Voltage Standing Wave Ratio	≤ 2
Input impedance (Ω)	30–60 Ω
Connector type	RP-SMA female connector
Shell color	Black
Antenna length (mm)	116.5 $\pm$ 3mm
Salt fog (H)	48H



5. Electrical Performance Report

5.1 Standing Wave Diagram



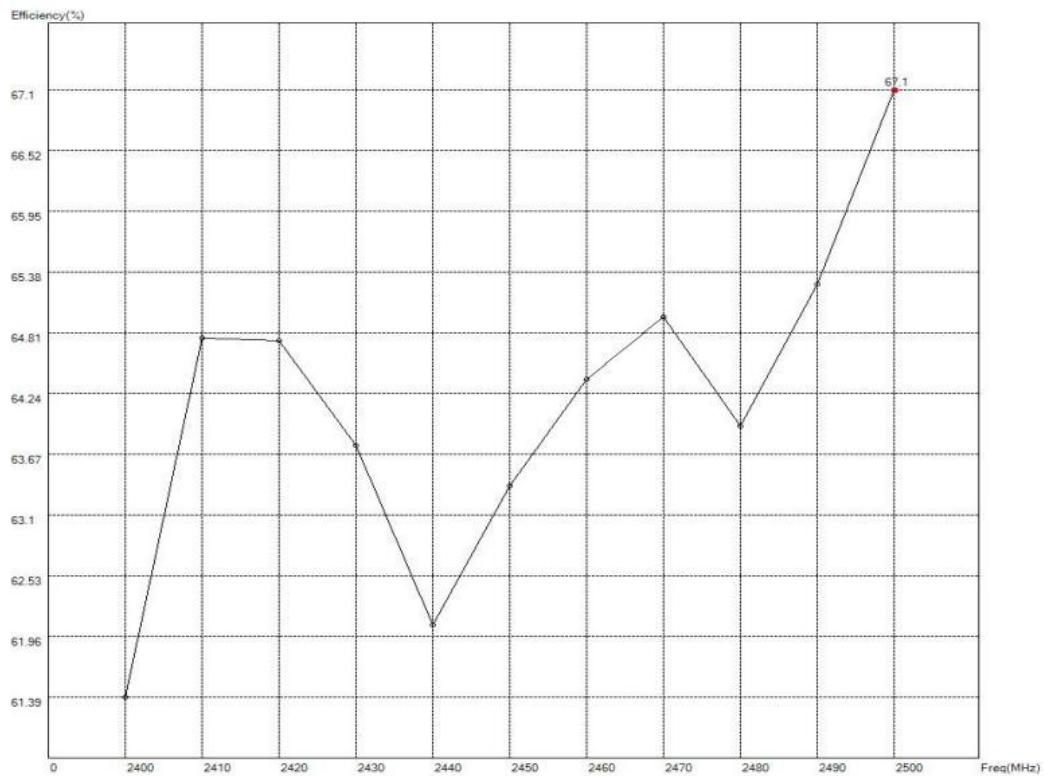


5.2 Efficiency Gai

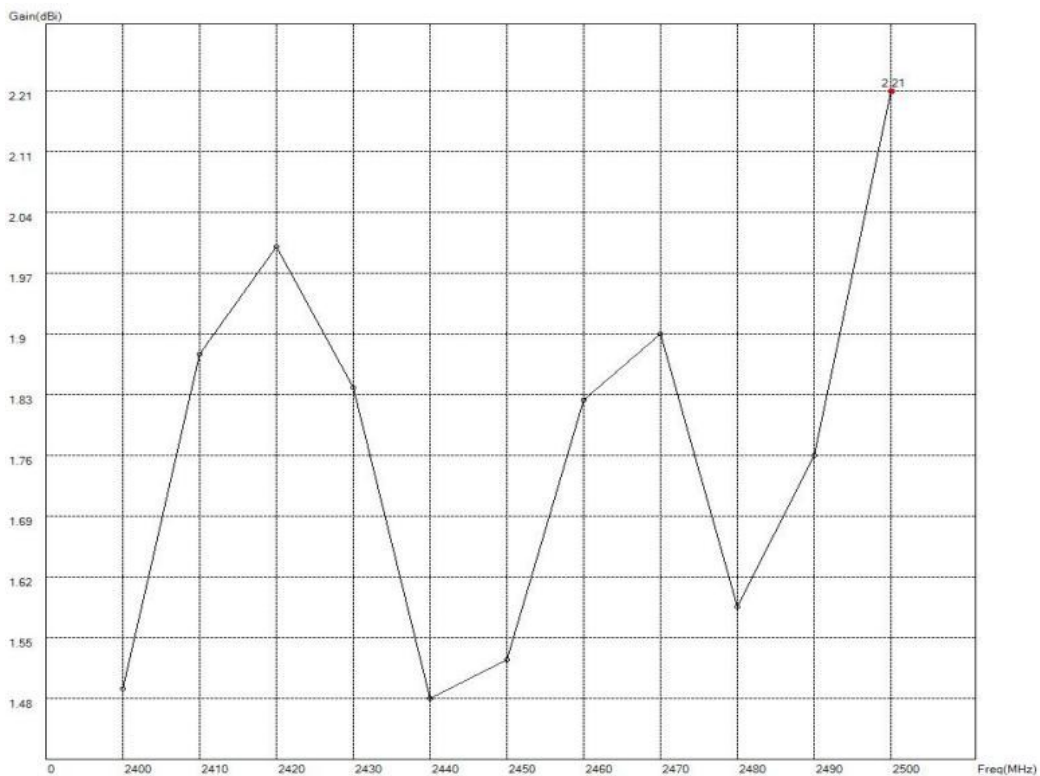
Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	1.49	61.39
2410	1.89	64.76
2420	2.00	64.73
2430	1.85	63.75
2440	1.48	62.06
2450	1.52	63.38
2460	1.84	64.37
2470	1.92	64.96
2480	1.59	63.94
2490	1.77	65.27
2500	2.01	67.10



5.3 Efficiency Chart



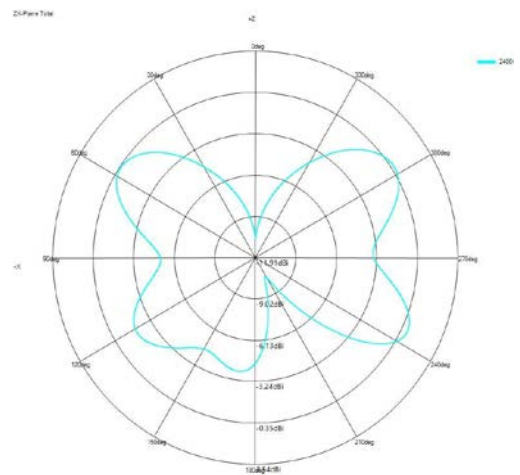
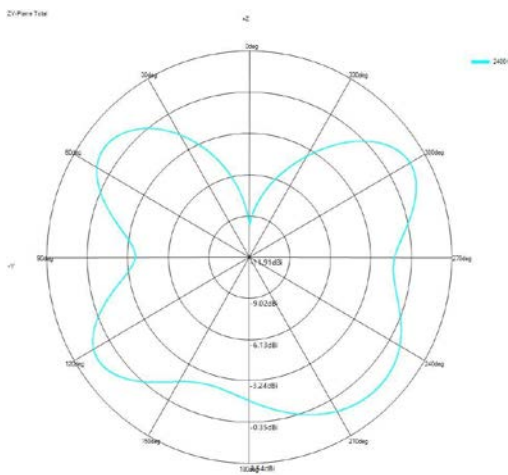
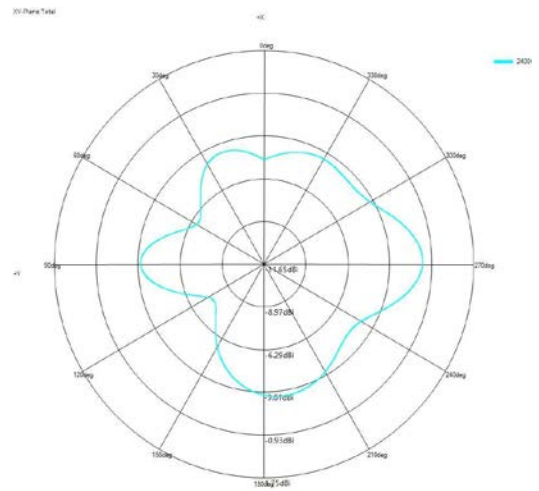
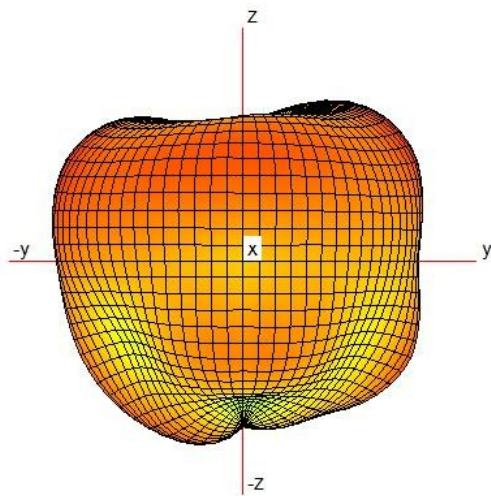
5.4 Gain Graph





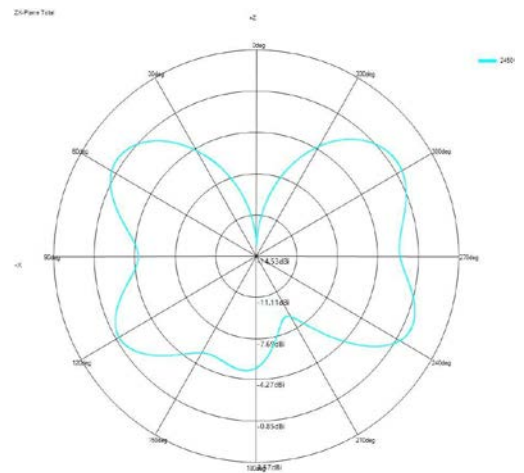
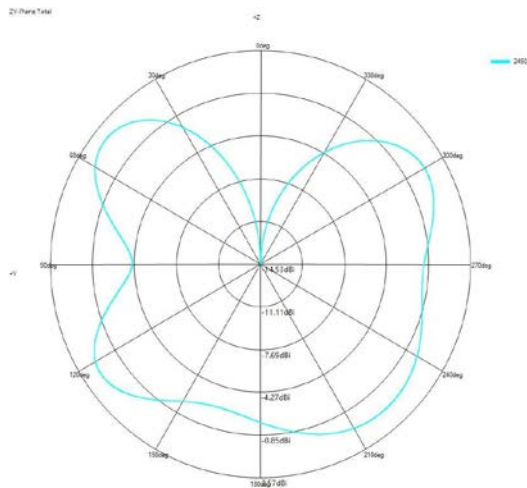
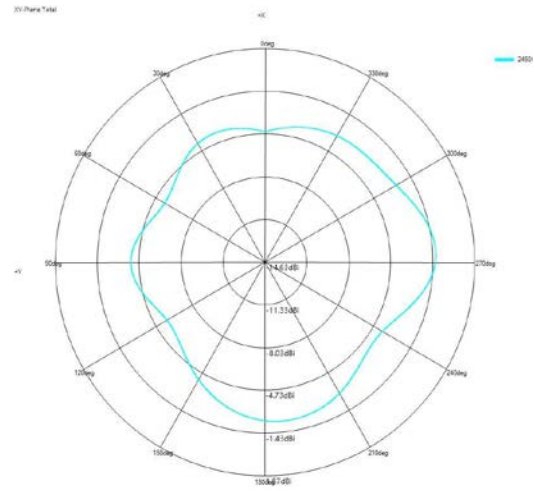
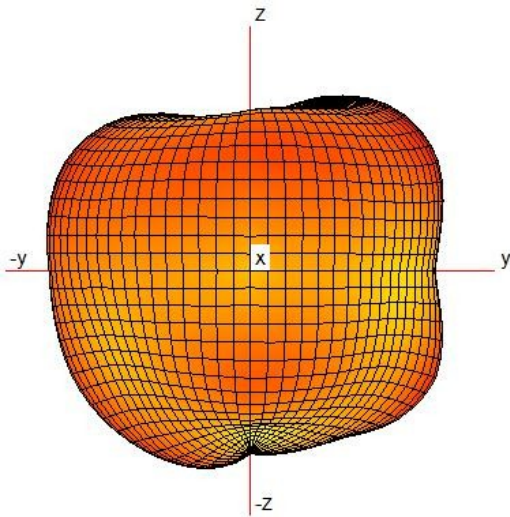
5.5 Polar Plot

2400MHz



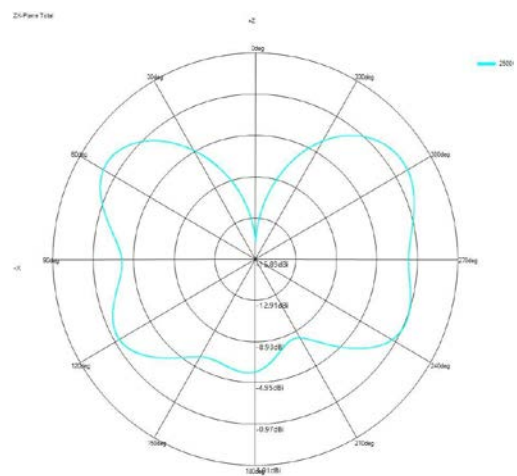
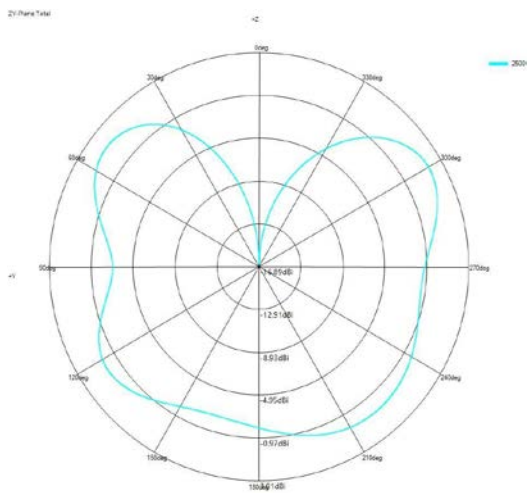
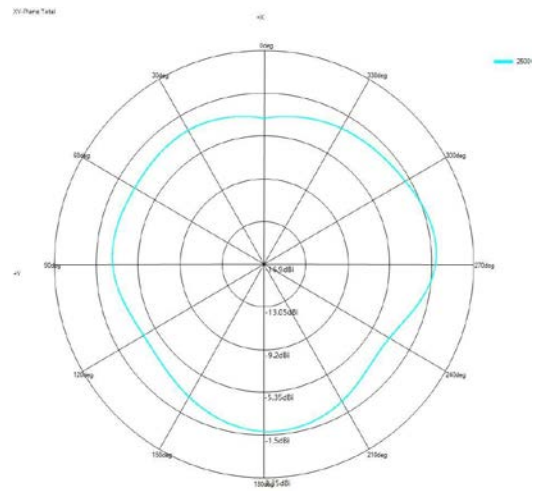
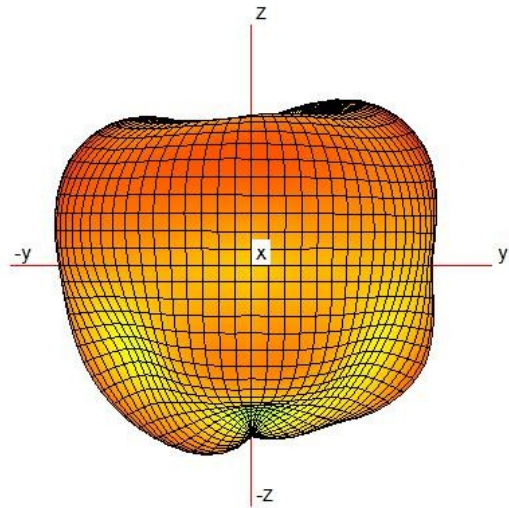


2450MHz





2500MHz





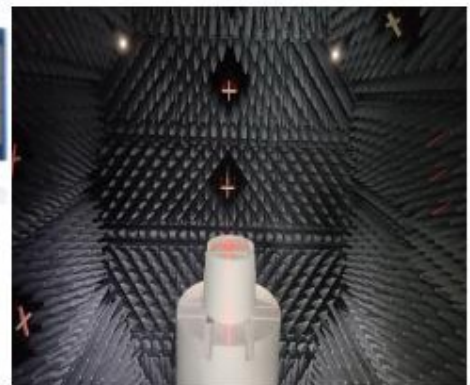
6. Reliability Test Report

6.1. Salt Spray Test Report

Customer	Rui Ming	Part Name	Rod-shaped antenna	Date of Completion	2025-9-4
Testing items	Test Requirements			Measured results	Evaluation
Neutral Salt Spray Test	Experimental process: Conduct a neutral salt spray test on the hardware components on the antenna. In a sealed environment at $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ with humidity above 85% and pH value within the range of 6.5 - 7.2, use a $5\% \pm 1\%$ NaCl solution. After continuous 48 hours of salt spray, the product surface should show no rust, discoloration, or coating peeling.			After the experiment, there was no rust on the surface of the product, no color change, and the coating did not peel off.	Qualified
Experiment: Wang Ming			Approval: Wang Ming		



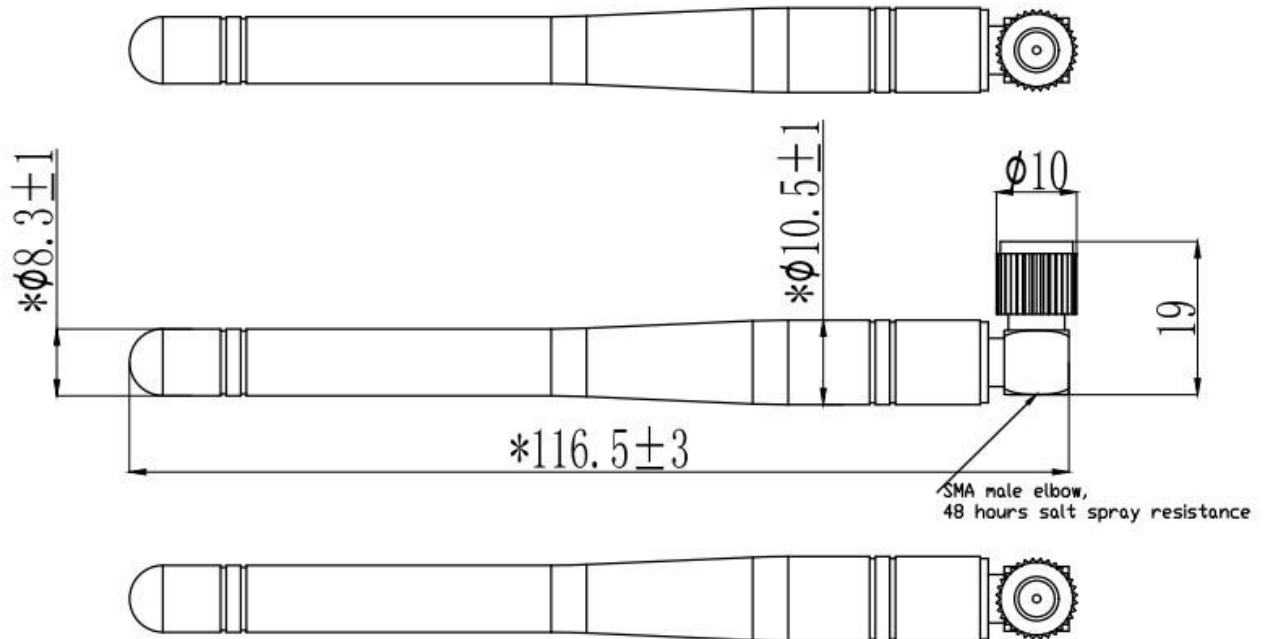
Antenna testing instrument



Darkroom testing environment



7. Engineering Drawings



Technical Requirements:

1. The plastic housing (black) shall be free from scratches and other defects.
2. 100% of the products shall pass the network analyzer test.
3. Environmentally friendly manufacturing process shall be adopted.
4. Dimensions marked with * are key control dimensions.
5. The product shall comply with ROHS environmental requirements.

unit: mm