

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER: **Shenzhen Zecre Technology CO.,Ltd**

DESCRIPTION: **770T-1.13Black-L100MM-OPEN**

PART NO.:

CUS PART NO.:

D A T E: **2025-4-28**

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
YLCHE	zhanglin Cai	Rui Deng

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

TEL: 0755 23073599

✂ Approval in duplicate, please signed by your company.

Address: 2015, 2nd Floor, No. 4 Sanyuan South Road, Bao'an District, Shenzhen City, Guangdong Province



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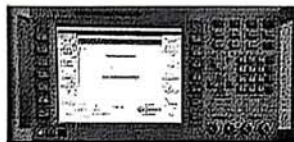
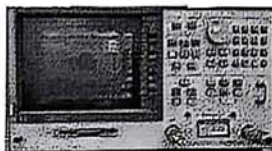
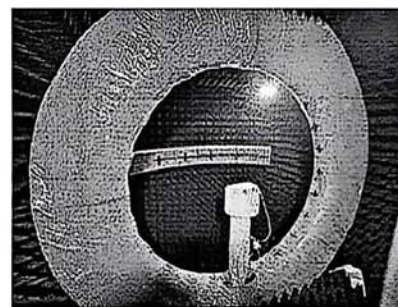
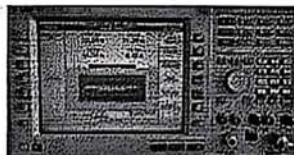
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1. Test items and equipment

	Test items	Equipment
1. S11-parameter	1. Return Loss 2. VSWR	network analyzer: Agilent E5071B HP 8753D
2.Active test	1. Transmitting power 2. Receiving sensitivity	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.general-purpose tester : Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. network analyzer: Agilent E5071B HP 8753D



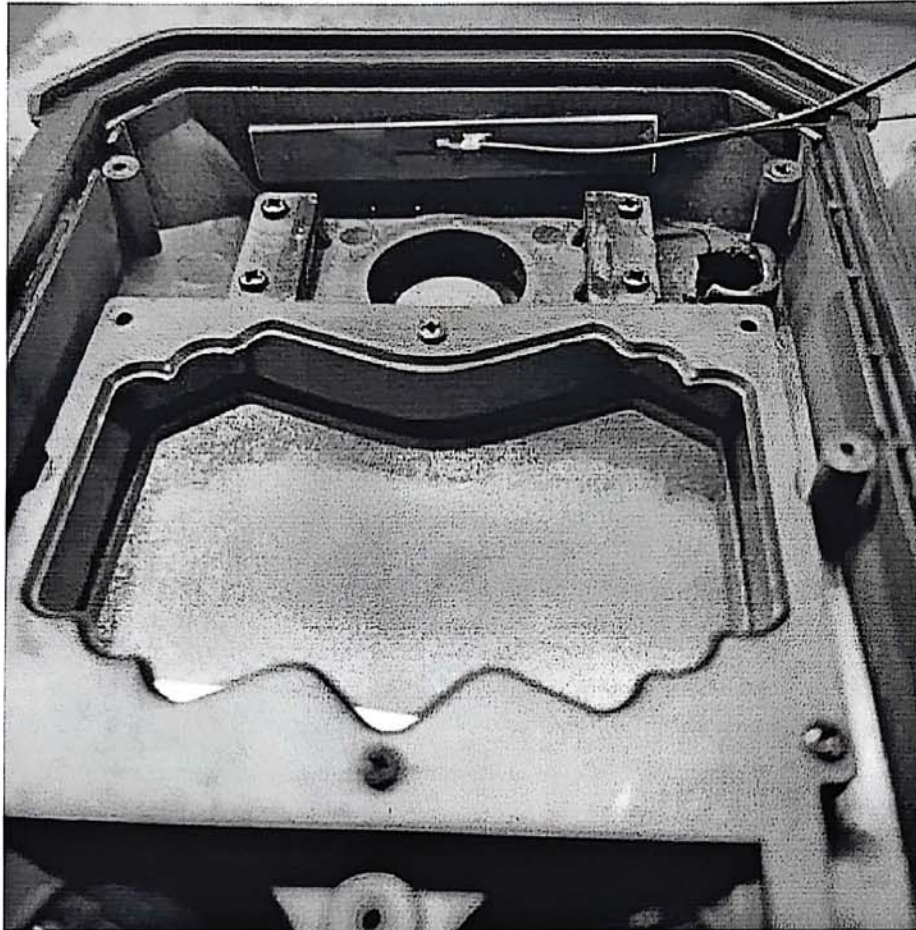
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2. Antenna Placement Diagram



Apply antenna at
this locatio



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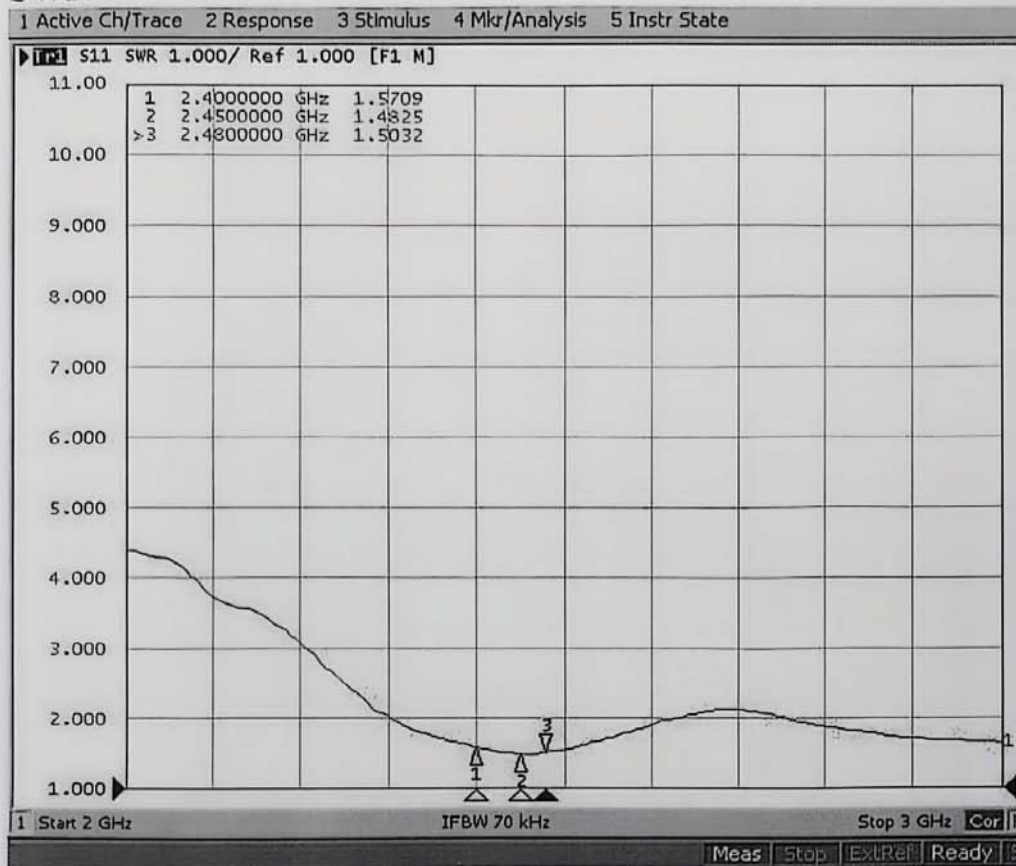
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3. Antenna performance

SWR



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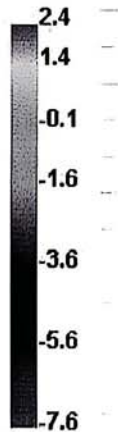
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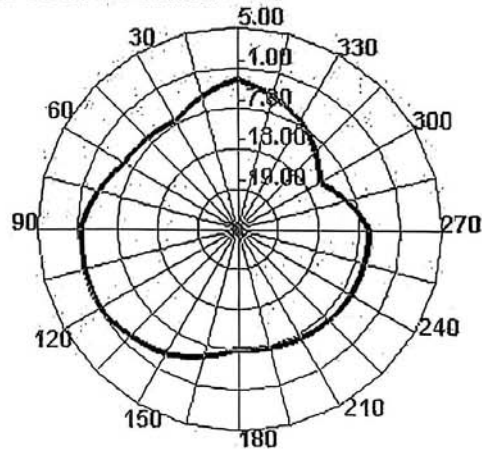
4. Antenna efficiency and gain

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.24	2.35
2410	50.44	2.4
2420	49.93	2.63
2430	51.09	2.75
2440	54.37	3.08
2450	58.25	3.43
2460	58.97	3.52
2470	59.51	3.59
2480	62.09	3.76
2490	64.86	3.88
2500	61.48	3.63

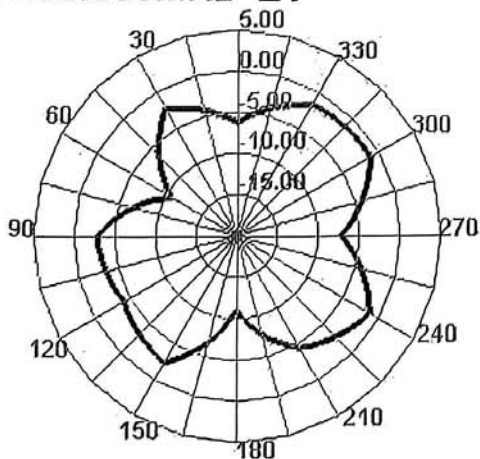
2400.000MHz



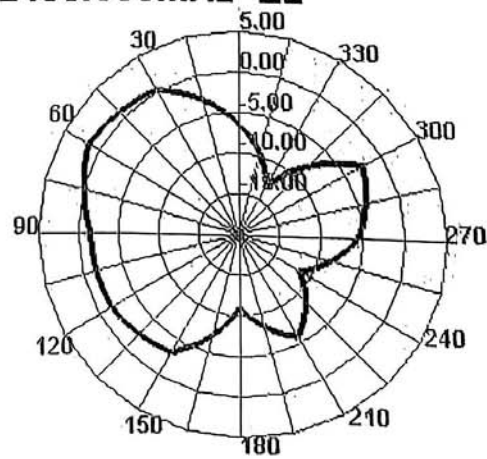
2400.000MHz H



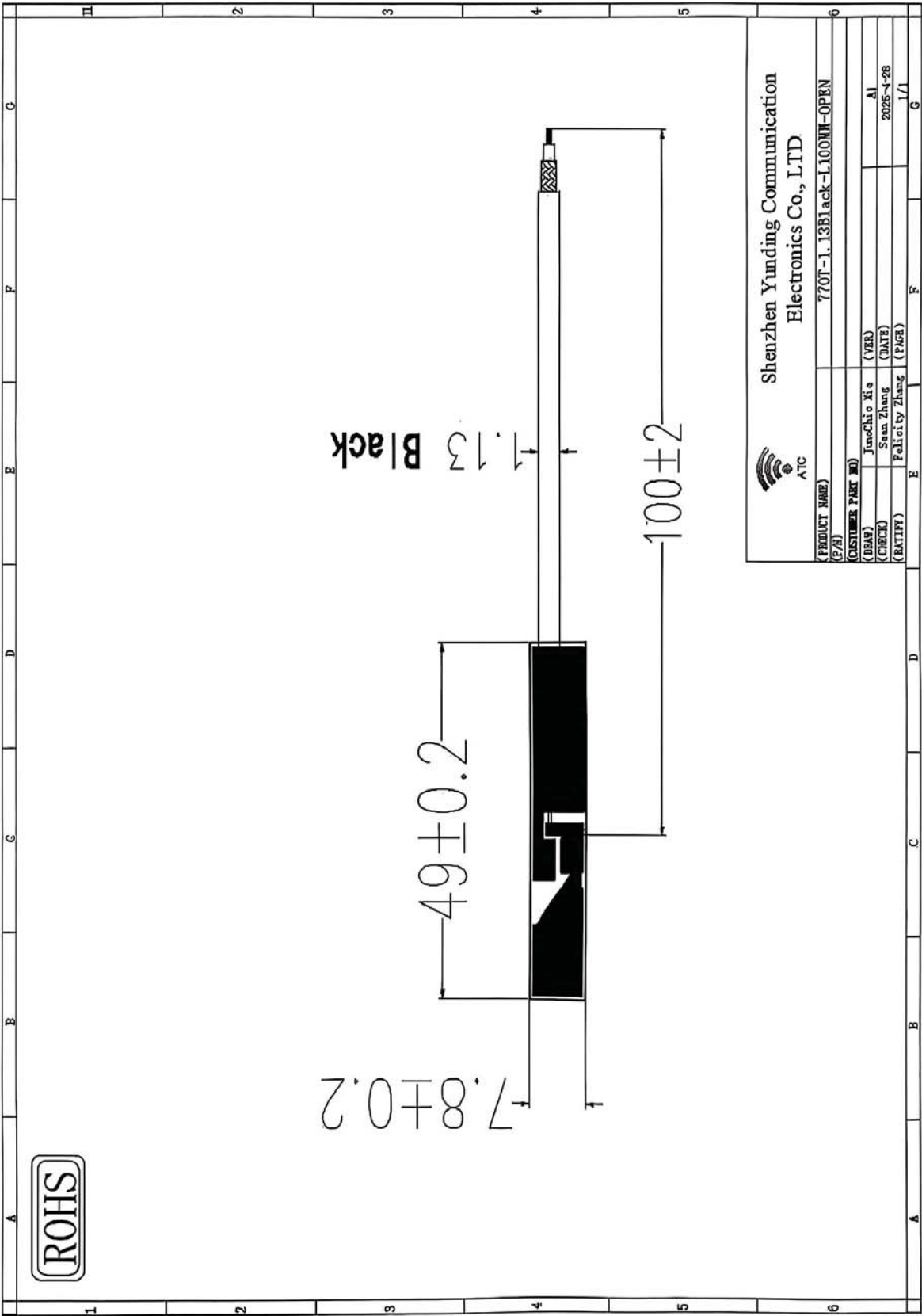
2400.000MHz E1



2400.000MHz E2



5.Antenna structure diagram:



Technical parameters of electrical appliances

Electrical Specifications

Frequency Range	2400~2500MHz
VSWR	≤ 2.0
Input Impedance	50 Ω
Gain	4 DBI

Mechanical Specifications

Wire color	Black
Input connector	OPEN
Cable length	100mm
Working Temperature	-40°C~+85°C
Working Humidity	20~80%



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Environment performance test:

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings :1.Temperature: -30 °C ~ +80 °C ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40°C,last 2 hours , put it after 5 min test the electrical function . Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1 mheight fall down3 times freely (vertical direction)	Electrical and mechanical performance normal

