

Antenna data sheet

ANTENNA M O D E L : T01

DESCRIPTION: 2.4G onboard antenna

D A T E: 2024.12.19

Manufacturer: Shenzhen Yunding Communication Electronics Co., LTD

Address: 3015 Jinchi Center, Hang Air Road, Baoan District,

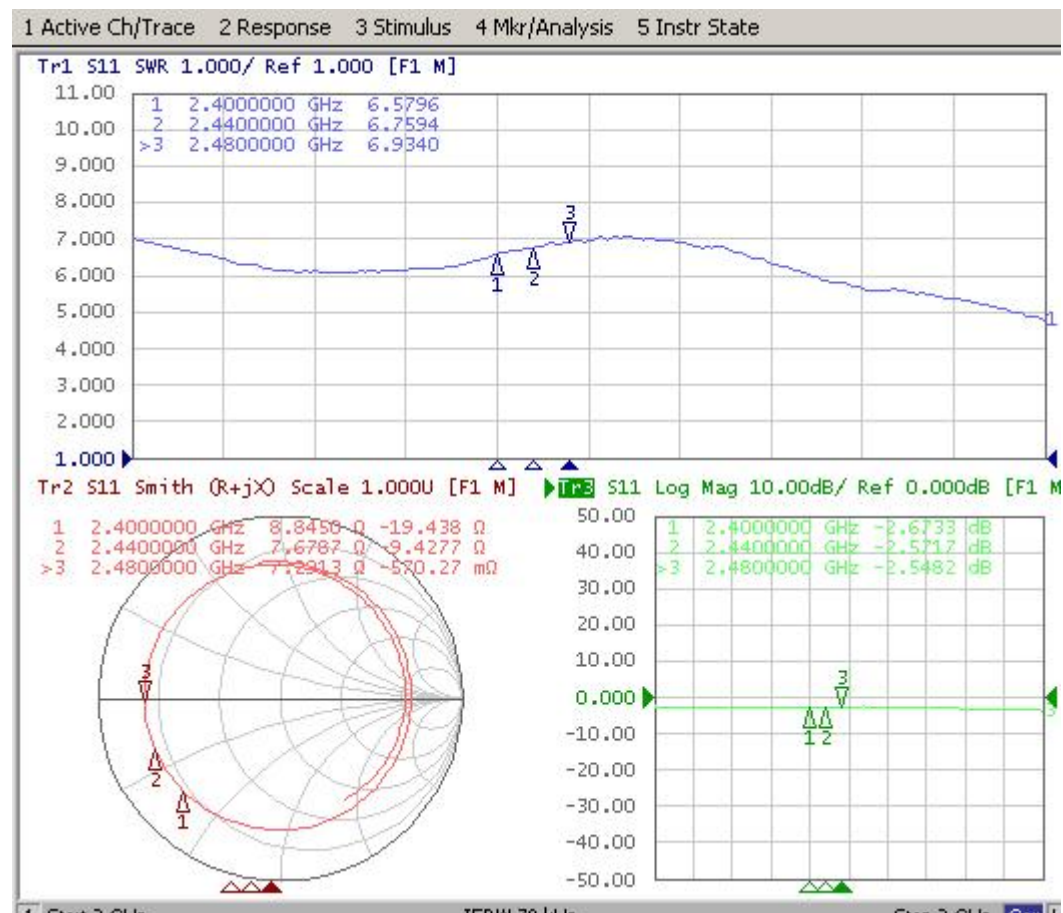
Shenzhen, China

1. Test items and equipment

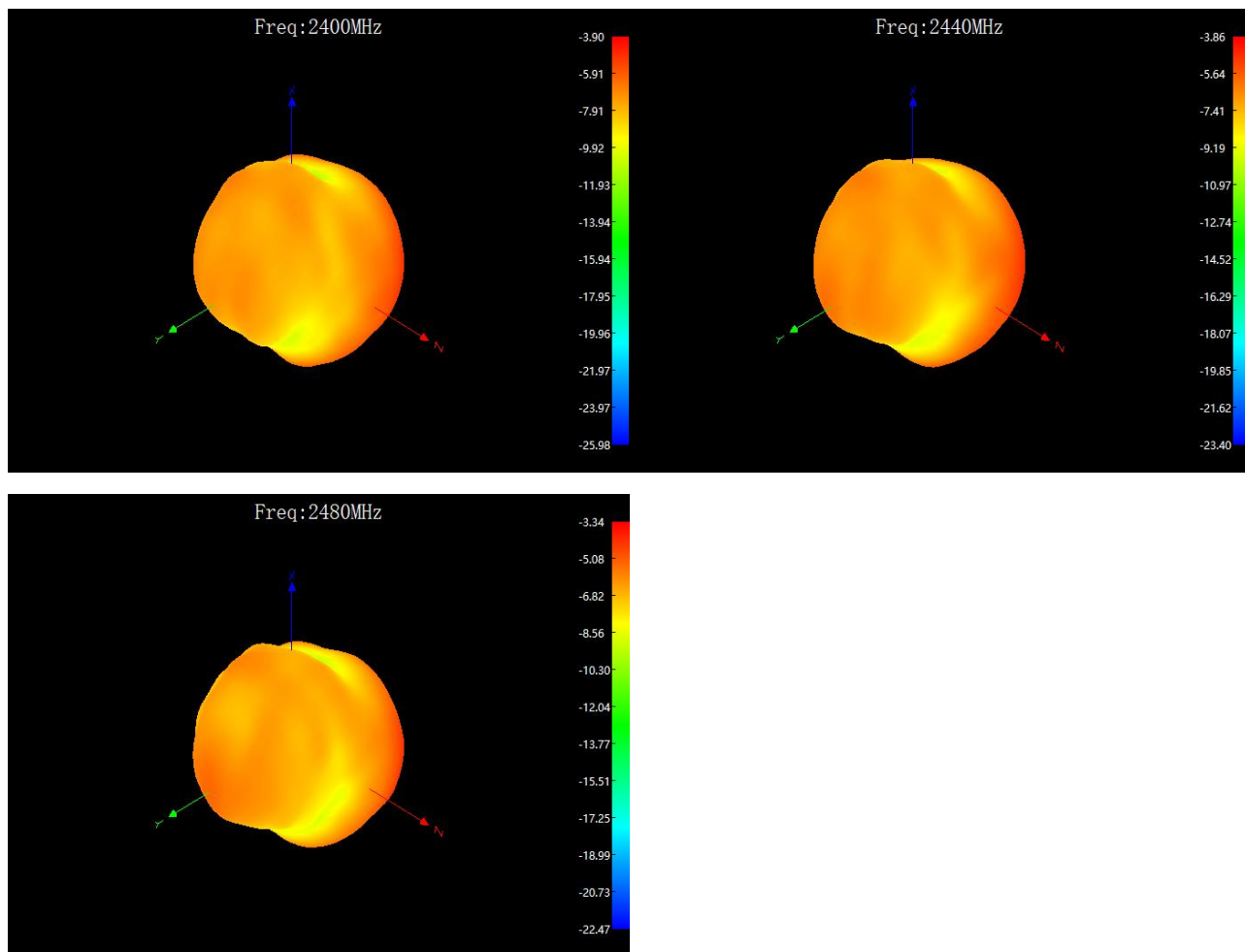
	Test Items	Equipment
1. S11 (S-parameter)	1. Return Loss 2. VSWR	Network Analyzer: Agilent E5071B HP 8753D
2. Active Test (Active)	1. Transmitted Power (TRP) 2. Receive Sensitivity (TIS)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive test instrument: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive Test (Passive)	1.Antenna Gain 2.Antenna Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive test instrument: : Agilent E5071B HP 8753D



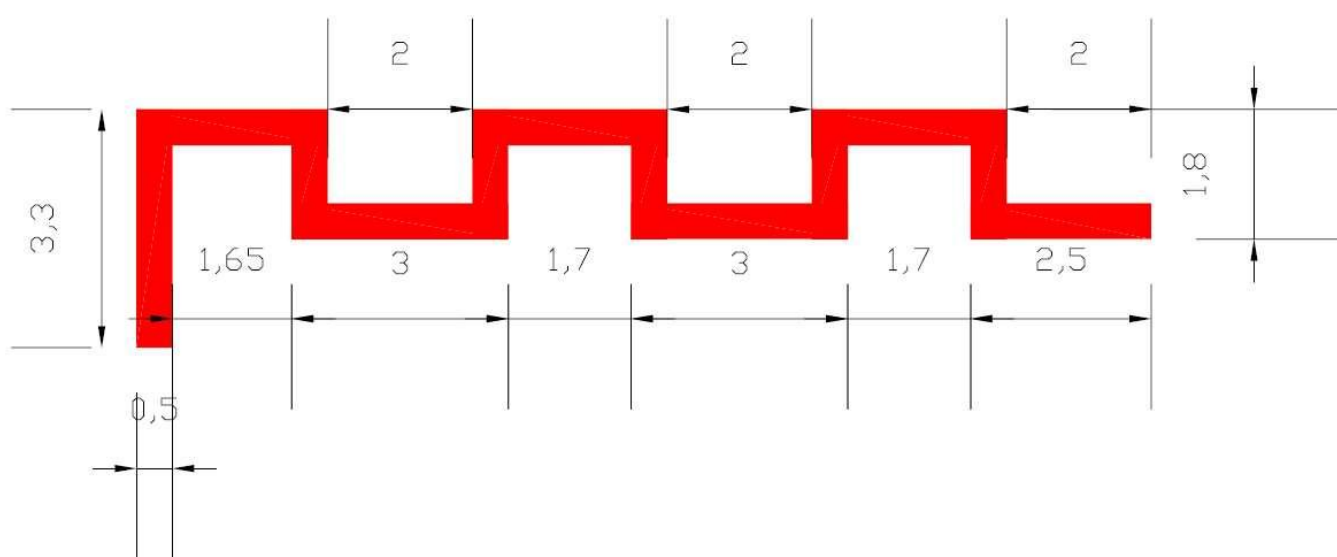
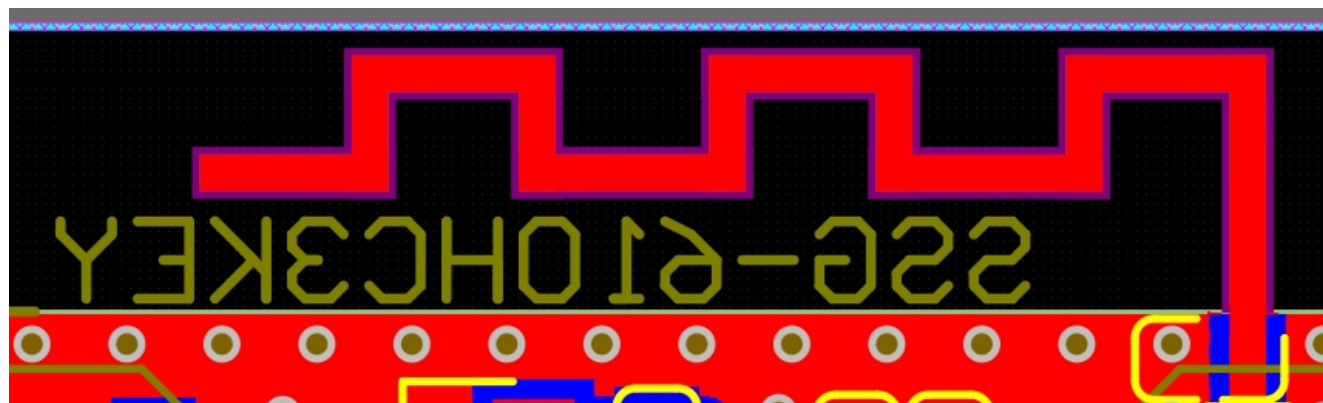
2. VSWR Smith and S11



3. Antenna gain 3D image



4. Antenna structure diagram



Technical parameters of electrical apparatus

	Electrical Specifications	
	Frequency Range	2402~2480MHz
	VSWR	≤7.0
	Input Impedance	50 Ω
	Gain	-3.86 dBi
	Mechanical Specifications	
	Working Temperature	-40℃~+85℃
	Working Humidity	20~80%

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: $-30\text{ }^{\circ}\text{C} \sim +80\text{ }^{\circ}\text{C}$;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: $95\pm 3\%$,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 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal