Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name:

	Product Name:		BT/WIFI 1 Antenna					
	Part NO.: Write By:		GS7. WIFI1. C113. 180B. 1					
			zhangchanghua					
Issued Date:			2025-09-09					
Customer								
Customer								
R&D Dept		-	Business Dept	Approved By				
SKYLink								
R&D Dept			Engineer Dept	Approval				

Specification Summary

A. Electrical Characteristics								
Frequency	2400MHz ~2500MHz 5150MHz ~7200MHz							
VSWR	<3							
Efficiency	>40%							
Peak Gain	2.4G:3.00 dBi 5G:2.50 dBi 6E:3.90 dBi							
Impedance	50 Ohm							
Polarization	Line							
B. Material & Mechanical Characteristics								
Material of Radiator	FPC							
Cable Type	1.13mm Black							
Connector Type	IPEX I							
Dimension	At Attachment							
Heat-durability	280±5°C, 10sec.							
	C. Environmental Characteristics							
Operation Temperature	- 20 °C ~ + 80 °C							
Storage Temperature	- 30 °C ~ + 85 °C							

• Test Equipment & Conditions

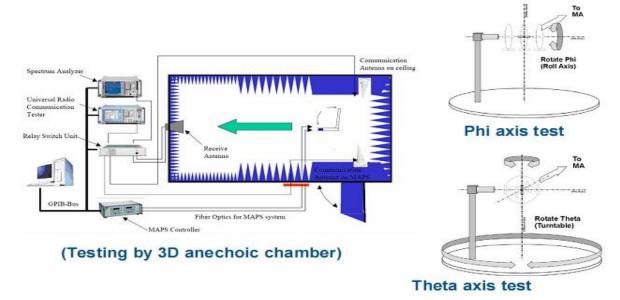
1. Network Analyzers:

Agilent 8753D 5071B

Communications Test Set:

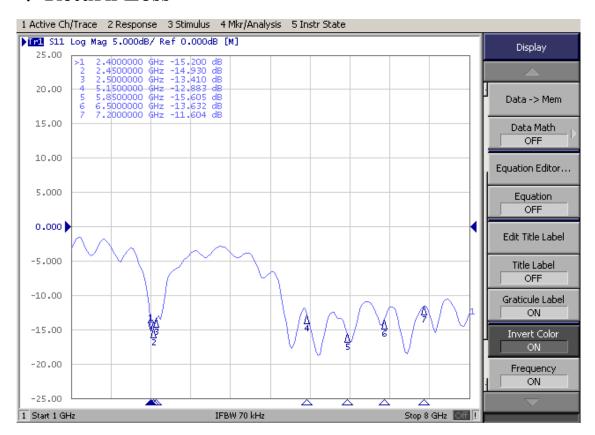
Agilent E5515C CMW500

2. 3D Chamber Test System

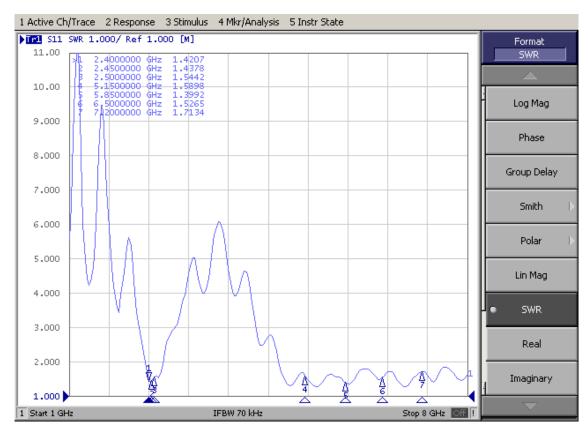




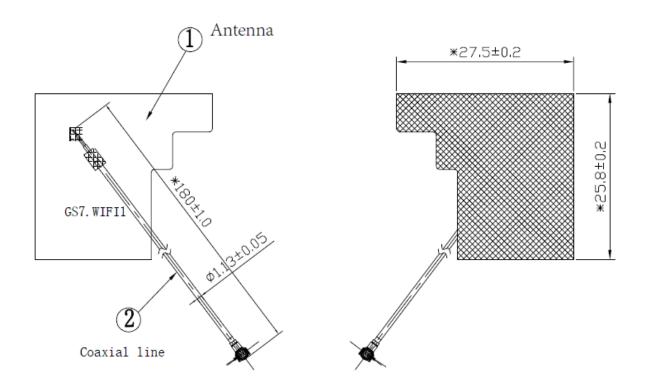
♦ Return Loss



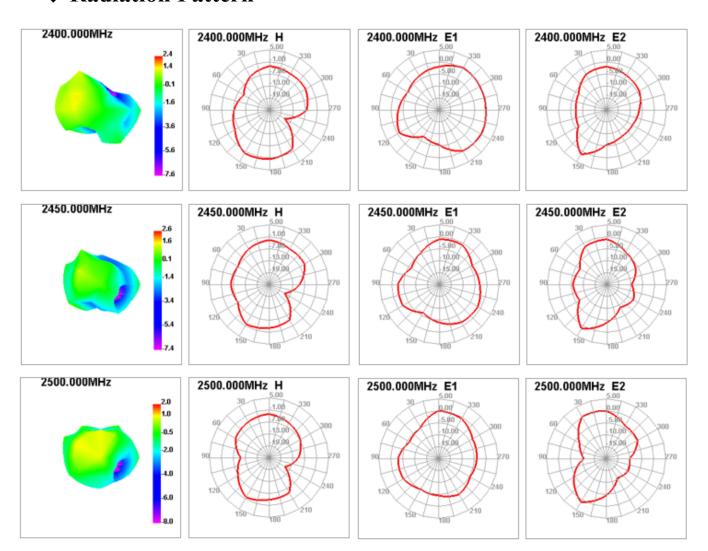
♦ VSWR

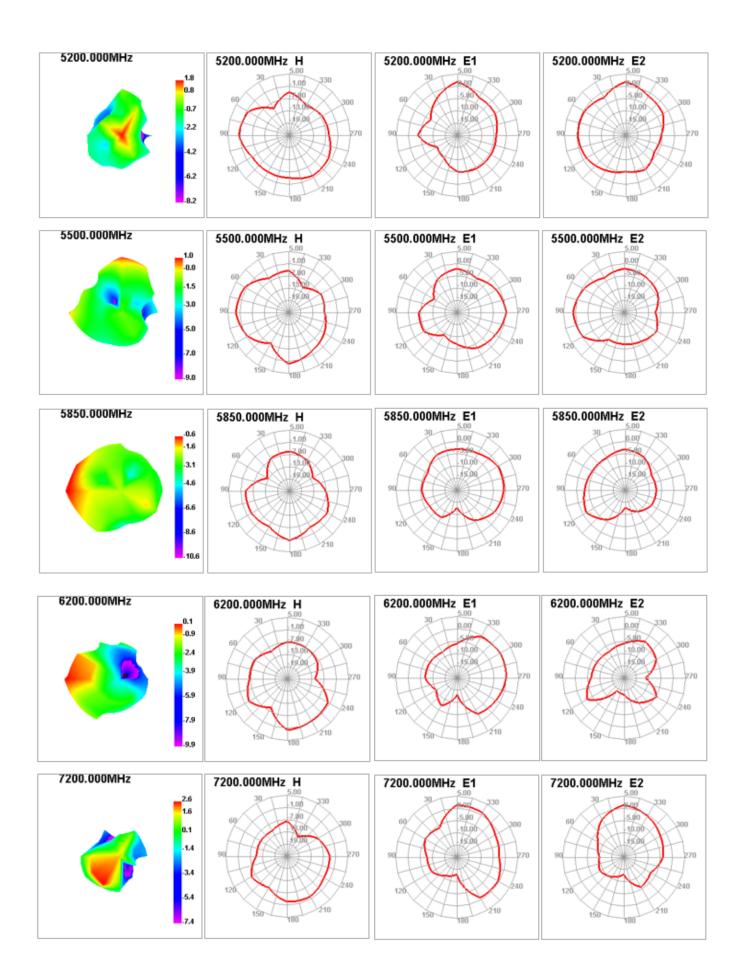


♦ Antenna size



♦ Radiation Pattern





R & D Center: Room D 5th Floor Building L,Block E ,71 Baocheng District ,Baoan District ,Shenzhen Factory: 6 Floor,GangHuaXing Industrial Park,Rongshu Road 2nd ,Fuyong,Baoan ,shenzhen Email:damoncui@tllskylink.com

♦ Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30°C, Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-down the temp. to -30°C in one hour, store antenna for 44 hours; step-up temp to 25°C, test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	High Temp./High Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25°C, test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition $$ Temp: $35\pm2^{\circ}\!\!$ C Humidity: 85% NaCl salt spray :5 ±1 %.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS