

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ B100 WIFI Antenna _____

Part NO. : _____ B100. WIFI _____

Write By: _____ YAN PEI HAI _____

Issued Date: _____ 2026-05-16 _____

Customer

R&D Dept	Business Dept	Approved By

SKYLink

R&D Dept	Engineer Dept	Approval

● Specification Summary

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz 5150MHz ~5850MHz
VSWR	<2.0
Efficiency	>41%
Peak Gain	2.4G:0.28dbi 5.1G:1.55dbi 5.8G:0.95dbi
Impedance	50 Ohm
Polarization	Line
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	/
Connector Type	/
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

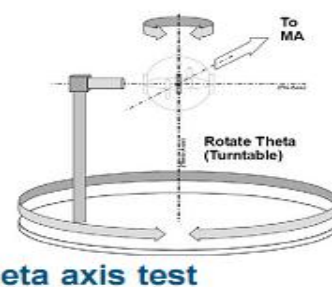
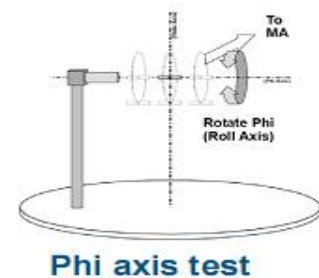
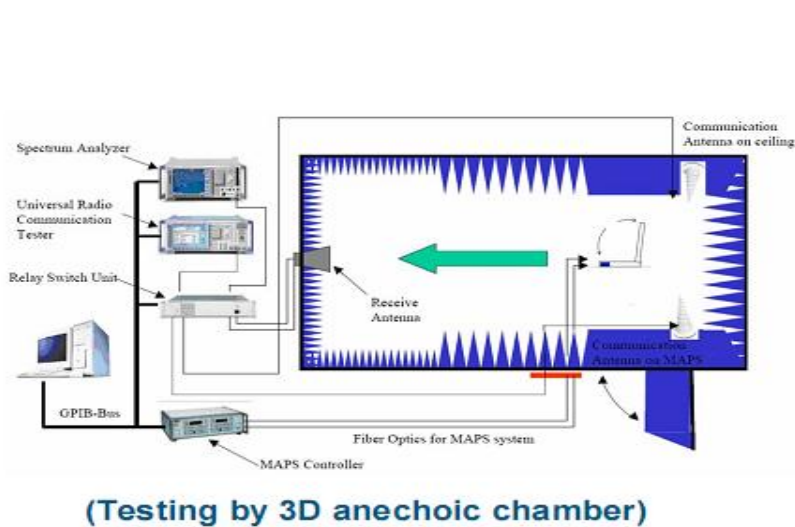
1. Network Analyzers :

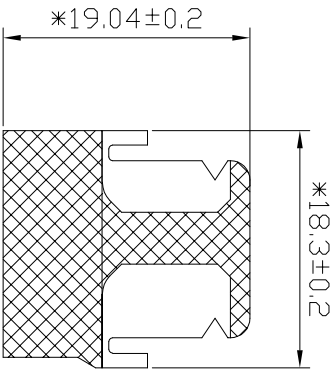
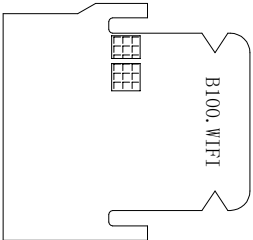
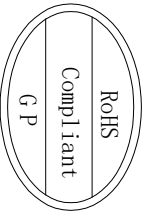
Agilent 8753D 5071B

Communications Test Set:

Agilent E5515C CMW500

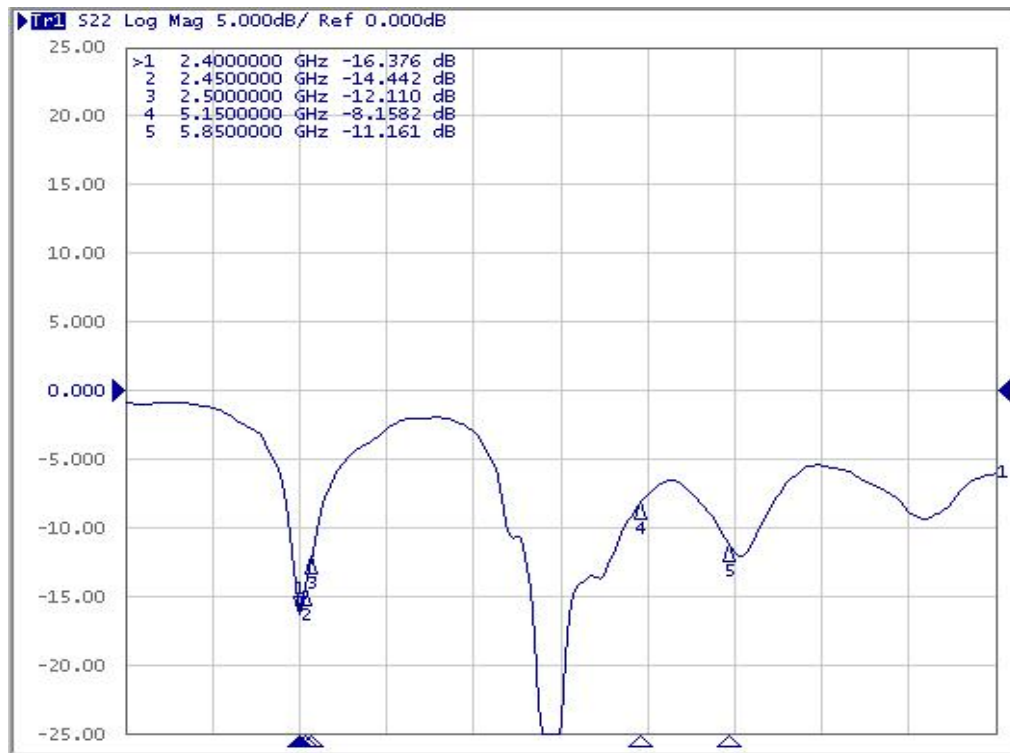
2. 3D Chamber Test System





1		2		3		4		5		6		7		8	
A															
B															
C															
D															
RoHS Compl iant G P															
B100. WIFI *19.04±0.2 *18.3±0.2															
A															
B															
C															
D															
SHEN ZHEN SKYLink CO., LTD															
Third Angle				Project		Date		2026-05-16							
0~10 ±0.05 ○ 0.02				Part Name		Designed by		MD							
10~18 ±0.10 ◎ ∅.03				Part No.		B100. WIFI		RF							
18~30 ±0.12 ⊥ 0.02				Material											
30~40 ±0.15 ▤ 0.04				DWG No.				Approved by							
40~ ±0.20 Angle ±0.5°				Location				Unit mm		Scale 1:1 Rev A					
Rev															
1		2		3		4		5		6		7		8	
Description		Date		Remark											
New drawing															

◆ Return Loss



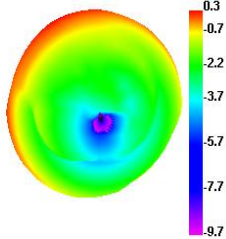
◆ Gain Efficiency

Fre (MHz)	Eff (%) (dB)	Gain (dB)
2400	43.23	0.28
2410	43.36	0.24
2420	43.88	0.18
2430	42.26	0.12
2440	42.34	-0.24
2450	42.88	-0.21
2460	42.36	-0.18
2470	41.52	-0.31
2480	42.34	0.14
2490	41.29	0.12
2500	42.21	0.26

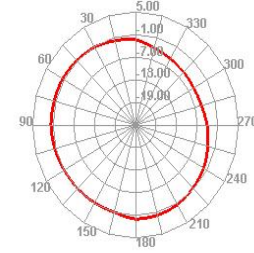
Fre (MHz)	Eff (%) (dB)	Gain (dB)
5100	52.33	1.55
5200	53.28	1.51
5300	52.44	1.42
5400	54.17	1.54
5500	55.24	1.31
5600	55.18	1.34
5700	50.65	0.95
5800	50.58	0.81

◆ Radiation Pattern(2.4g)

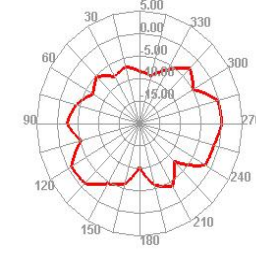
2400.000MHz



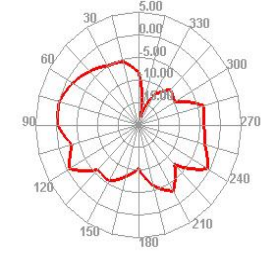
2400.000MHz H



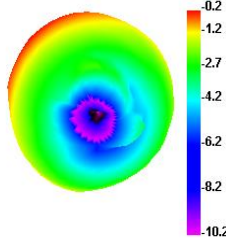
2400.000MHz E1



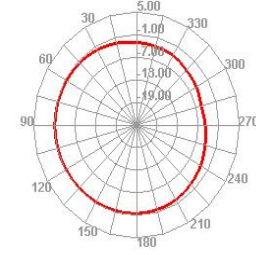
2400.000MHz E2



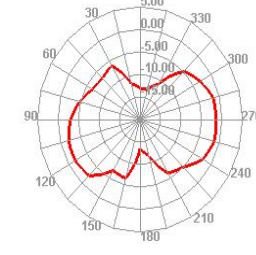
2450.000MHz



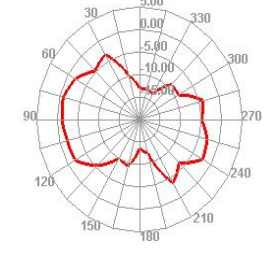
2450.000MHz H



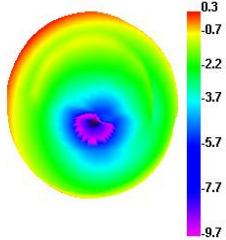
2450.000MHz E1



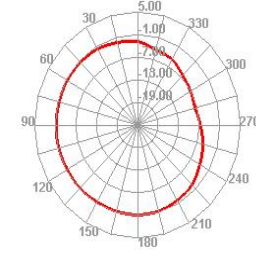
2450.000MHz E2



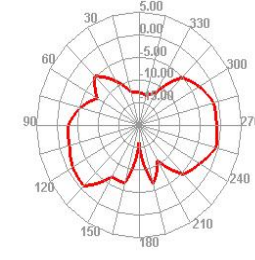
2500.000MHz



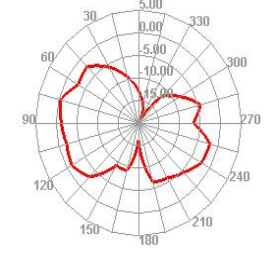
2500.000MHz H



2500.000MHz E1

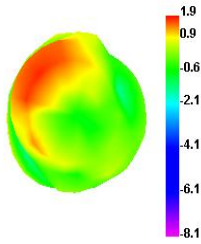


2500.000MHz E2

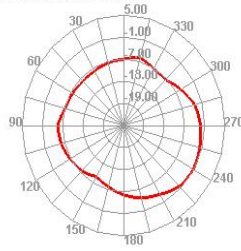


◆ Radiation Pattern(5.8G)

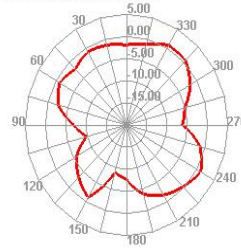
5150.000MHz



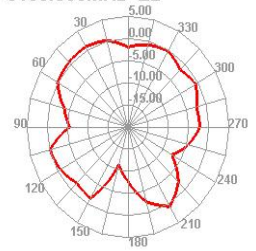
5150.000MHz H



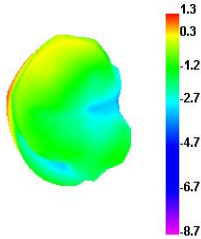
5150.000MHz E1



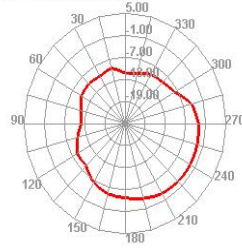
5150.000MHz E2



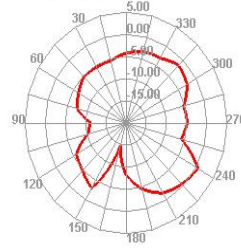
5500.000MHz



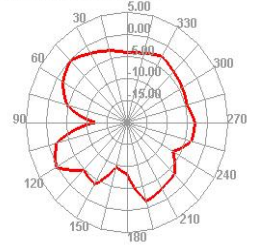
5500.000MHz H



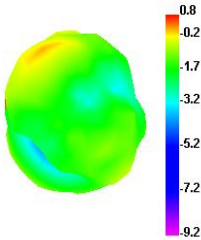
5500.000MHz E1



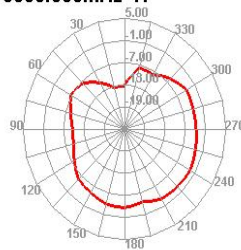
5500.000MHz E2



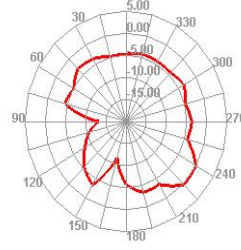
5800.000MHz



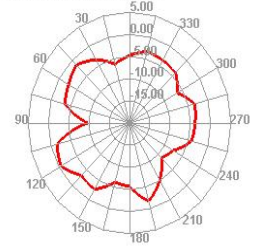
5800.000MHz H



5800.000MHz E1



5800.000MHz E2



◆ Antenna Picture



◆ Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30℃ , Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃,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℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃,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: $35\pm 2^{\circ}\text{C}$ Humidity: 85% NaCl salt spray :$5\pm 1\%$.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS