

# Shenzhen SKYLink Technology Co.,Ltd

# Antenna Specification for Approval

	Customer Name	e: _				
	Product Name:		BT Antenna			
	Part NO.:		SC05 Digital	microscope		
	Write By:		Damon Cui			
	Issued Date:		2025. 02. 18			
Customer						
R&D Dept		Ві	usiness Dept	Approved By		
SKYLink						
R&D Dept		Er	ngineer Dept	Approval		
	I					



# Specification Summary

A. Electrical Characteristics					
Frequency	2400MHz ~2500MHz				
Return Loss	<-9.0 dbi				
Efficiency	>20%				
Peak Gain	1.2dbi				
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

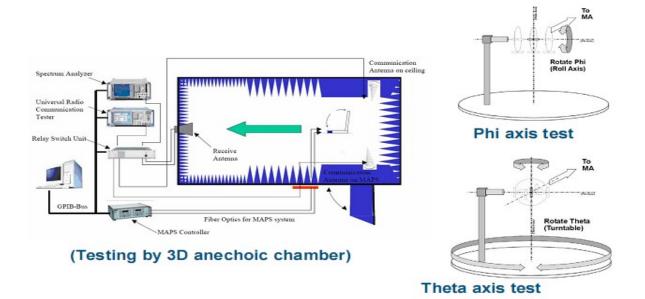
### 1. Network Analyzers :

Agilent 8753D 5071B

#### **Communications Test Set:**

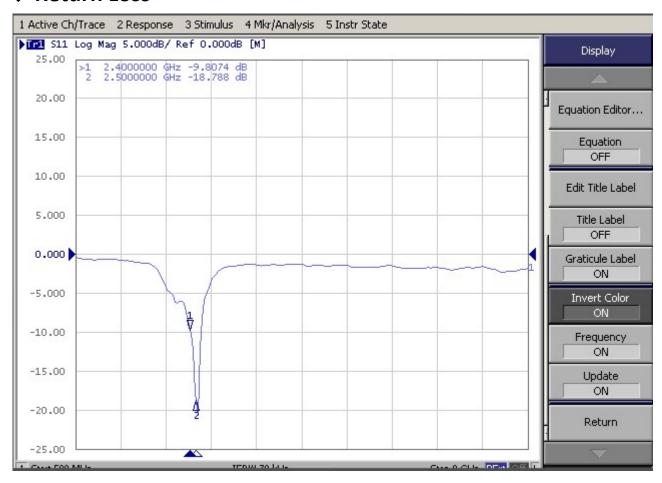
Agilent E5515C CMW500

#### 2. 3D Chamber Test System





### **♦** Return Loss



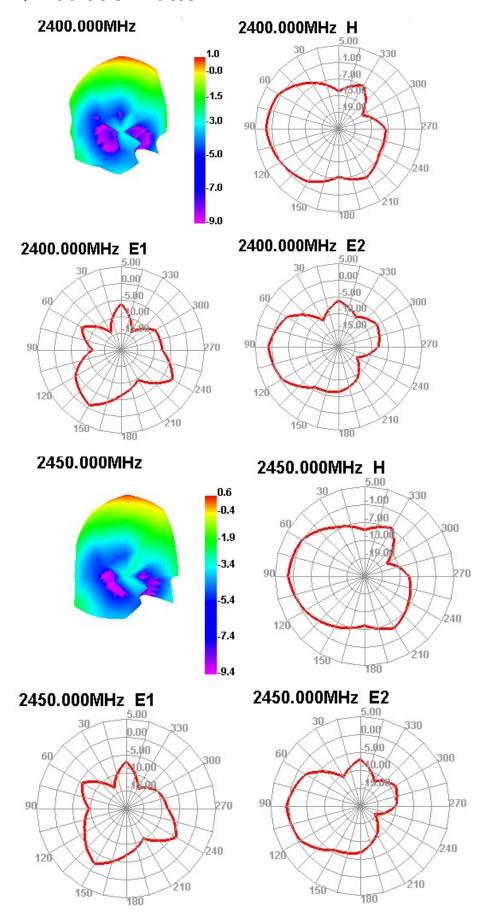


## **♦** Gain & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	30. 55	0.97
2410	30. 92	1. 11
2420	30. 95	1. 21
2430	30. 17	1.14
2440	28. 51	0.94
2450	25. 77	0. 57
2460	25. 22	0. 55
2470	24. 93	0. 56
2480	25. 45	0.7
2490	25. 91	0.83
2500	24. 42	0.66

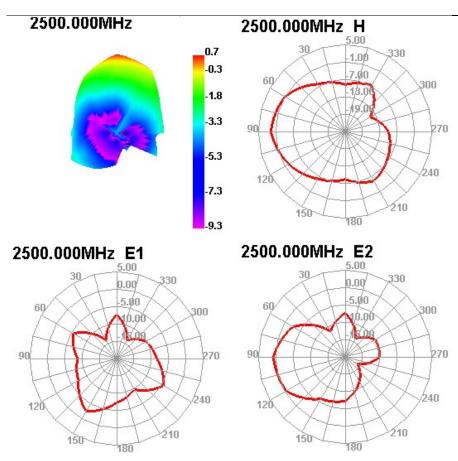


#### Radiation Pattern



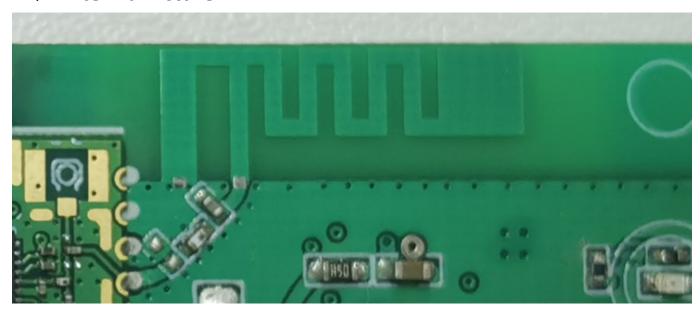
R & D Center: Room D 5<sup>th</sup> Floor Building L,Block E ,71 Baocheng District ,Baoan District ,Shenzhen Factory: 6 Floor,GangHuaXing Industrial Park,Rongshu Road 2<sup>nd</sup> ,Fuyong,Baoan ,shenzhen <a href="mailto:Email:damoncui@tllskylink.com">Email:damoncui@tllskylink.com</a>

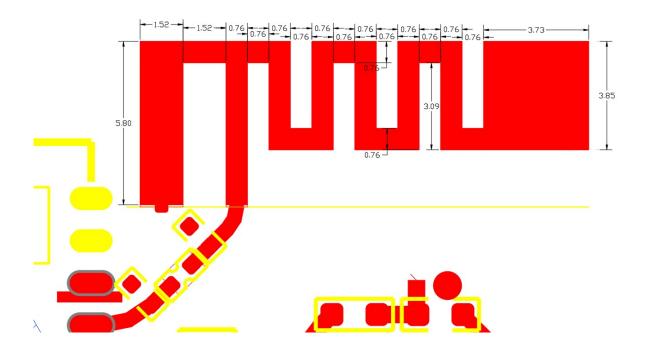






### **♦** Antenna Picture









## **♦** Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	and humidity is 65% for one hour, then step-down	Temp.&Humi. Tester	No material deformation is allowed.	PASS
2	High Temp./High Humid Storage Test	and humidity is 65% for one hour, then step-up the	Temp.&Humi. Tester	No material deformation is allowed.	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition $$ , Temp: $35\pm2^\circ\!$	Salt-Spray Tester	No color change No appear rusting	PASS