

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ SRD ANTENNA

Part NO.: _____ EWF046. DF01B. SMAMF

Write By: _____ Damon Cui

Issued Date: _____ 2024-7-30

Customer

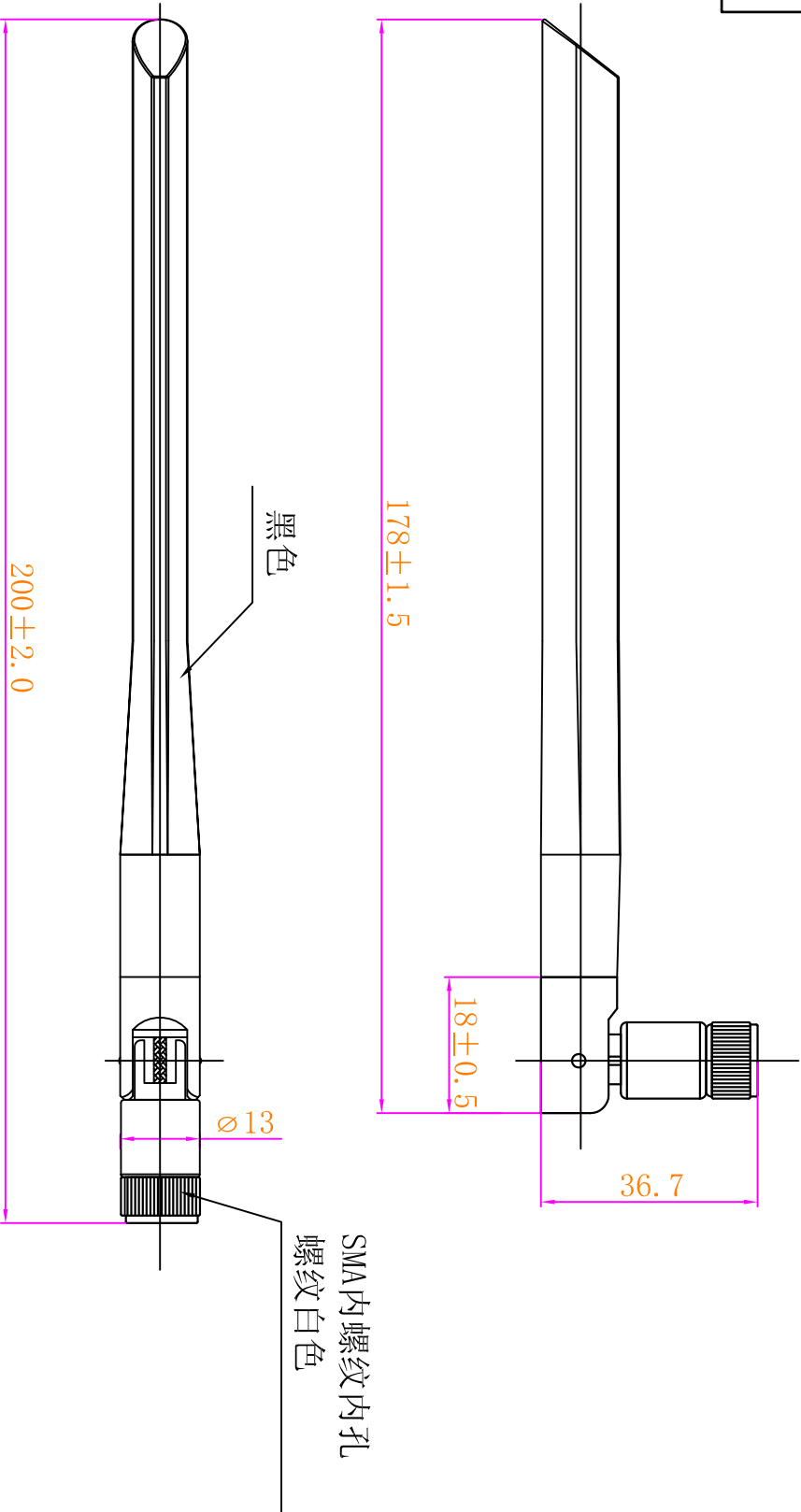
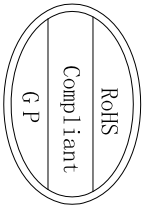
R&D Dept	Business Dept	Approved By

SKYLink

R&D Dept	Engineer Dept	Approval

Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz
VSWR	2400MHz ~2500MHz <2.0
Efficiency	>50%
Impedance	50 Ohm
Polarization	Line
Gain	≤3DBi @ 2400MHz ~2500MHz
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	RG178
Connector Type	SMA
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C



深 圳 天 联 凌 科 技 有 限 公 司										
SHEN ZHEN SKYlink CO., LTD										
			Third Angle		Project		Date			
0~10			±0.05		○		0.02		Part Name	
10~18			±0.10		◎		∅0.03		棒子天线	
18~30			±0.12		┘		0.02		Part No.	
30~40			±0.15		┐		0.04		EWF046.DF01B.SMA MF	
40~			±0.20		Angle		±0.5°		Material	
DWG No.										
Unit			mm		Scale		1:1		Rev	
A			New drawing							
Rev			Description		Date		Remark		Location	

Test Equipment & Conditions

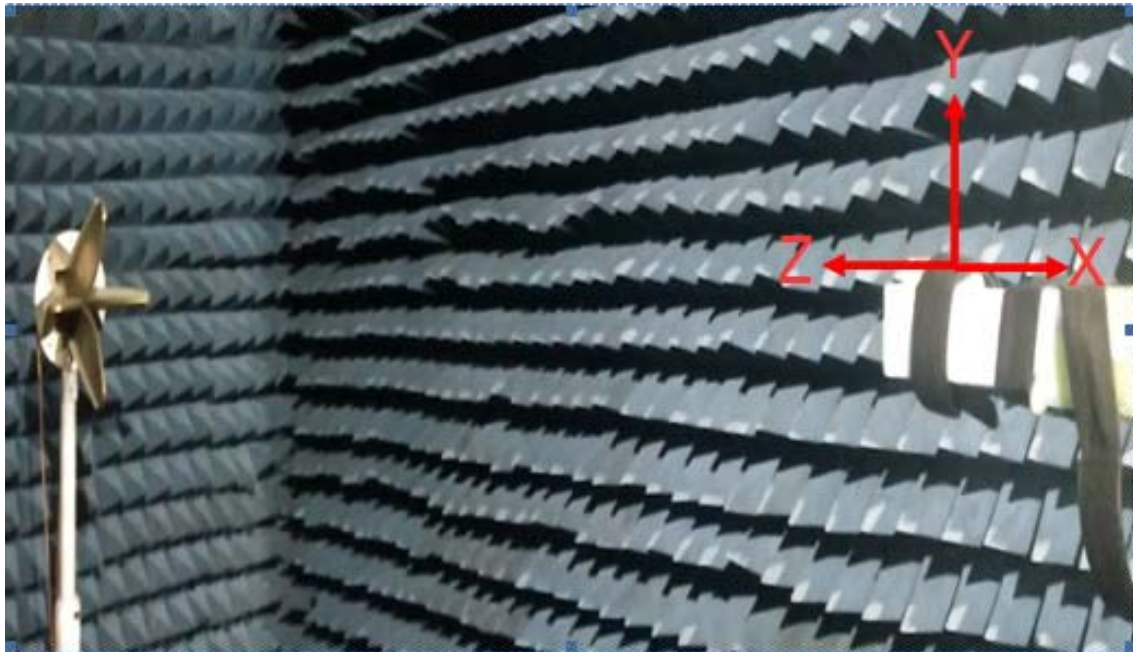
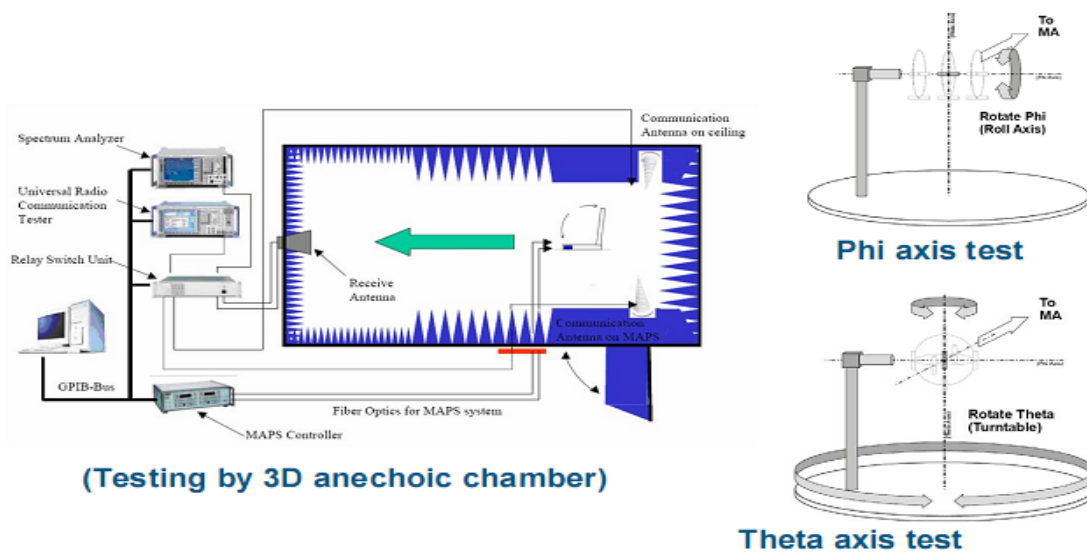
1. Network Analyzers :

Agilent 8753D 5071B

2. Communications Test Set:

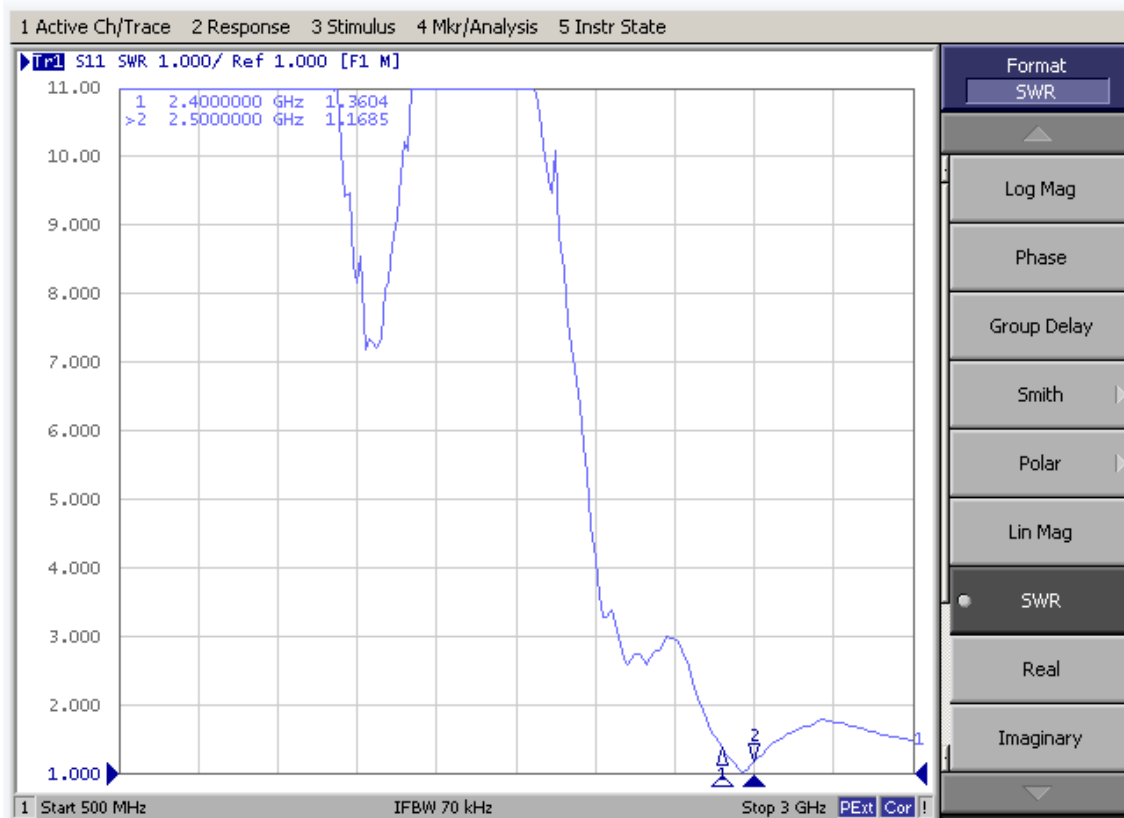
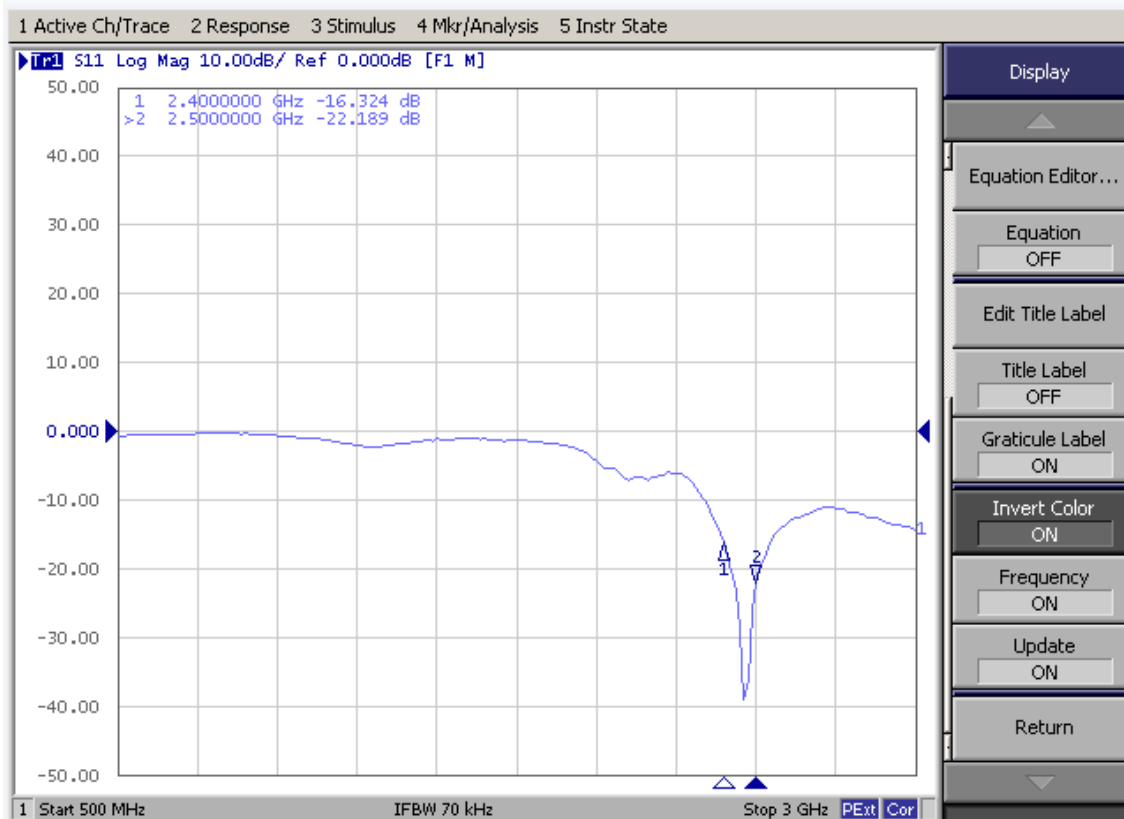
Agilent E5515C

3. 3D Chamber Test System



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

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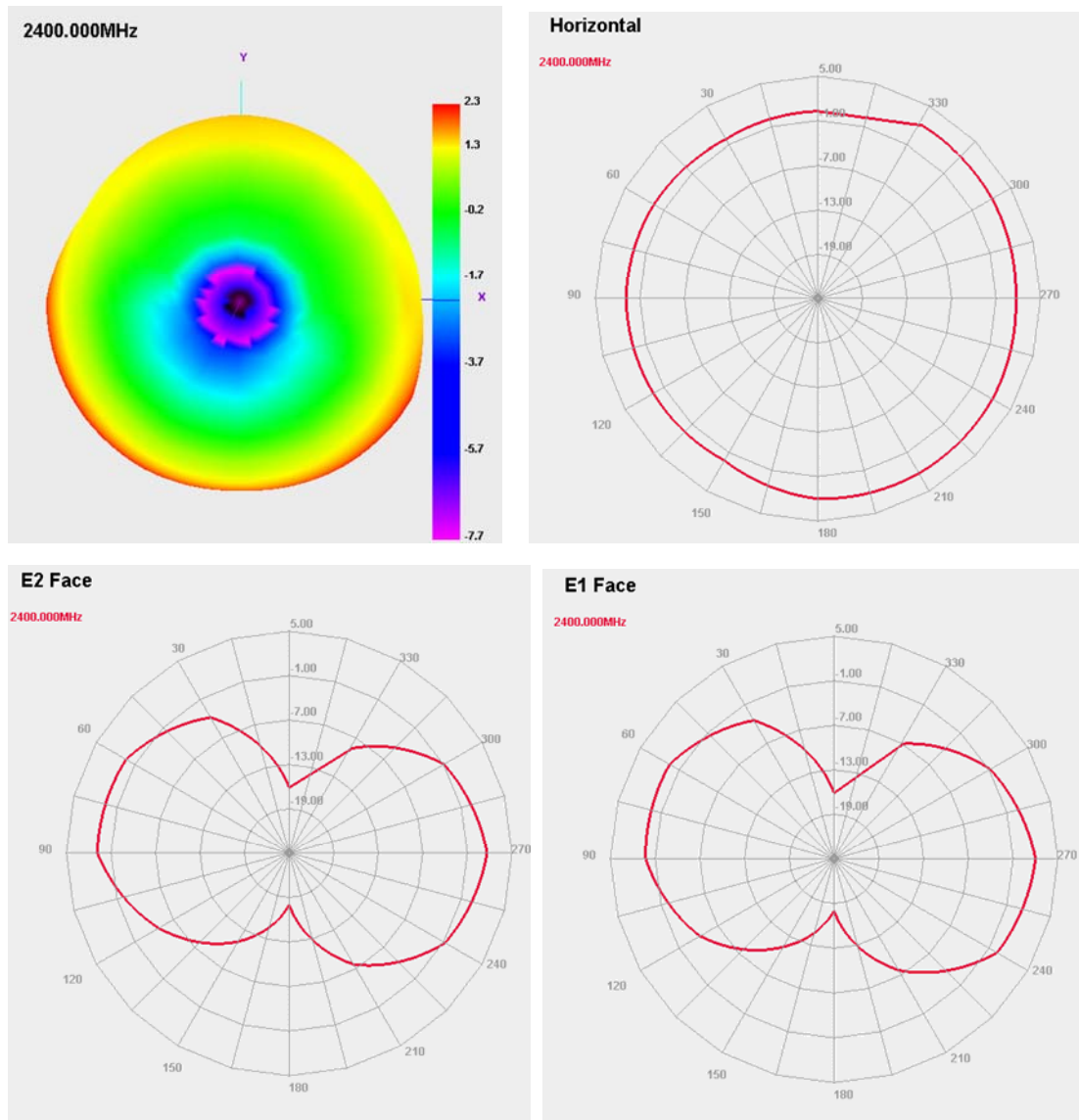
Gain:

Fren (MHz)	Gain (dBi)
2400	1.99
2410	1.95
2420	1.91
2430	1.85
2440	1.84
2450	1.87
2460	1.93
2470	1.96
2480	1.92
2490	2.23
2500	2.35

Efficiency:

Fren (MHz)	Effi (%)
2400	70.25
2410	69.47
2420	68.73
2430	67.58
2440	66.35
2450	66.02
2460	65.21
2470	67.82
2480	66.34
2490	68.23
2500	72.14

Radiation Pattern:



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[Email:damoncui@tllskylink.com](mailto:damoncui@tllskylink.com)

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±2℃ Humidity: 85% NaCl salt spray :5 ±1 %.PH value :6.5~7.2 Test time:12hours	Salt-Spray Tester	No color change No appear rusting	PASS