#### Shenzhen SKYLink Technology Co.,Ltd

# Floor D, 5th Floor, Building L, No. 26, Lane 2, Liuxian 1st Road, Bao'an District, Shenzhen

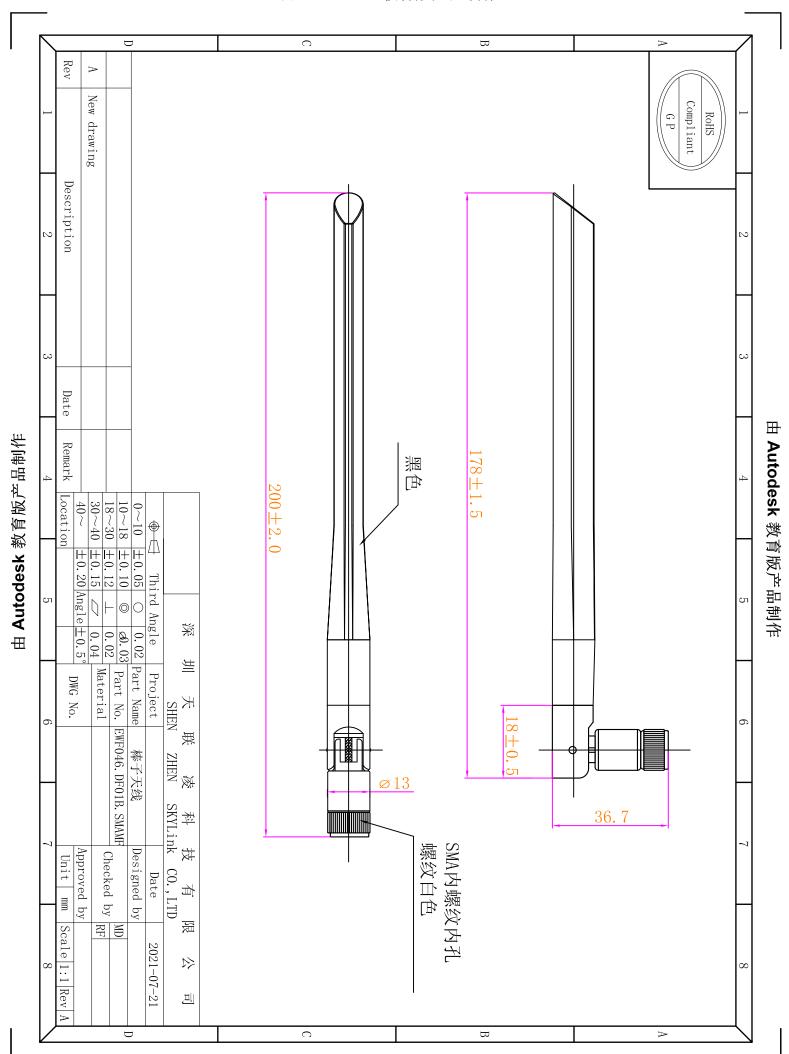
## Antenna Specification for Approval

	Customer Name:	-		
	Product Name:	SRD Ante	nna	
	Part NO.:	EWF046. DF01B. SMAMF		
	Write By:	Damon Cui		
	Issued Date:	2025-4-1		
Customer				
R&I	D Dept	Business Dept	Approved By	
SKYLink	,			
R&	D Dept	Engineer Dept	Approva1	

#### Product Specification

A. Electrical Characteristics				
Frequency	2400MHz ~2500MHz 5150MHz~5850 MHz			
VSWR	2400MHz ~2500MHz <2.0			
	5150MHz~5850 MHz <3.0			
Efficiency	>50%			
Impedance	50 Ohm			
Polarization	Line			
Gain	≤5DBi@ 5150MHz~5850 MHz			
	≤3DBi @ 2400MHz ~2500MHz			
B. Material & Mechanical Characteristics				
Material of Radiator	Cu			
Cable Type	RG178			
<b>Connector Type</b>	SMA			
Dimension				
C. Environmental				
Operation Temperature	- 30 °C ~ + 80 °C			
Storage Temperature	- 30 °C ~ + 85 °C			

## **Test Equipment & Conditions**



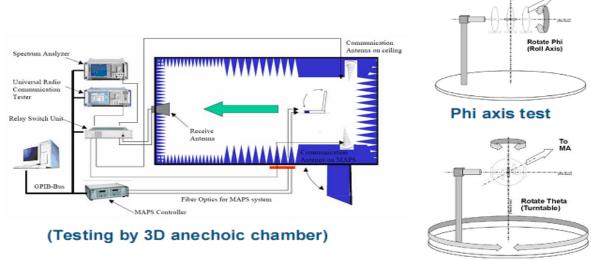
### 1. Network Analyzers :

Agilent 8753D 5071B

#### 2. Communications Test Set:

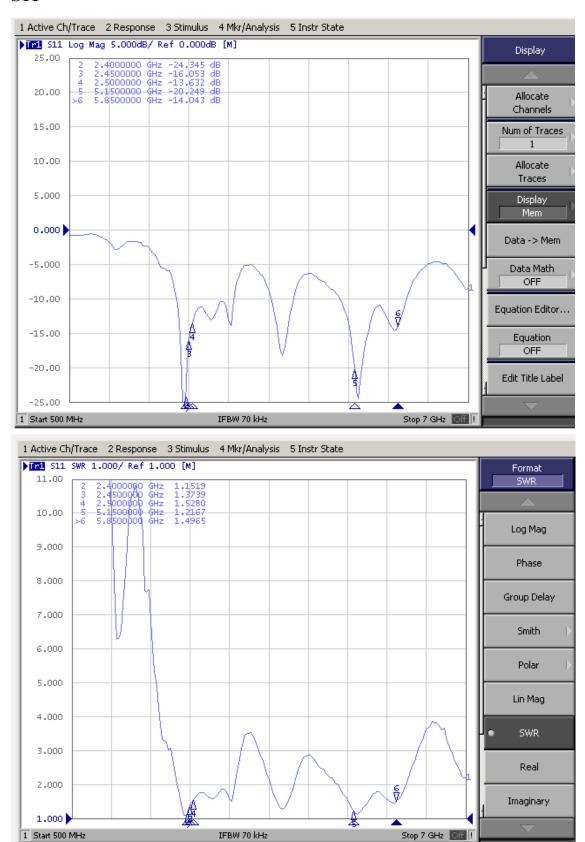
Agilent E5515C

#### 3. 3D Chamber Test System



Theta axis test



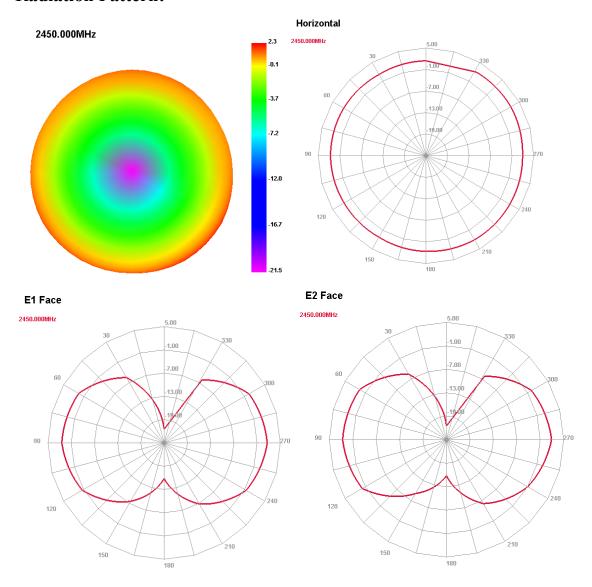


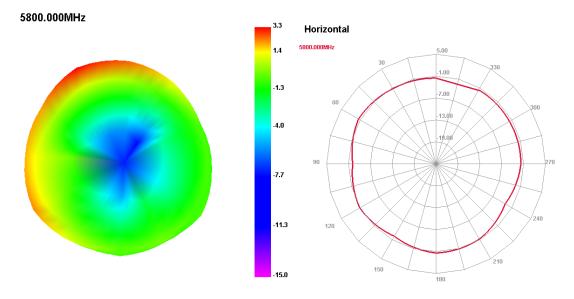
#### Gain & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5000	61.64	3. 47
5100	66. 76	2. 13
5200	65. 59	2. 23
5300	68.04	2.04
5400	60.09	2. 43
5500	62. 45	2. 4
5600	60.76	2. 13
5700	60. 21	2.81
5800	57. 51	2. 9
5900	59. 49	2. 26

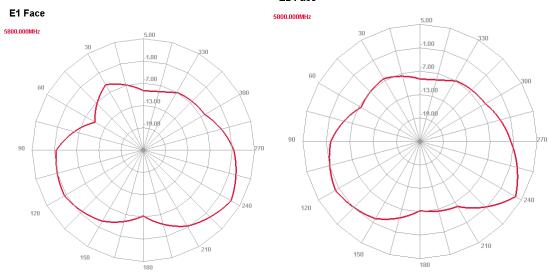
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	70. 25	1.99
2410	69. 47	1.95
2420	68. 73	1.91
2430	67. 58	1.85
2440	66. 35	1.84
2450	66. 02	1.87
2460	65. 21	1.93
2470	67.82	1.96
2480	66. 34	1.92
2490	68. 23	2. 23
2500	72. 14	2.35

#### **Radiation Pattern:**









	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℃ 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: $35\pm2^{\circ}\mathbb{C}$ Humidity: $85\%$ NaCl salt spray :5 $\pm1$ %.PH value :6.5~7.2 Test time:12hours	Salt-Spray Tester	No color change No appear rusting	PASS