

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ TB662 2.4G WIFI Antenna _____

Part NO. : _____ WF03A. C113. 120B. 1 _____

Write By: _____ zhangchanghua _____

Issued Date: _____ 2022-08-27 _____

Edition: _____ V1.0 _____

Customer

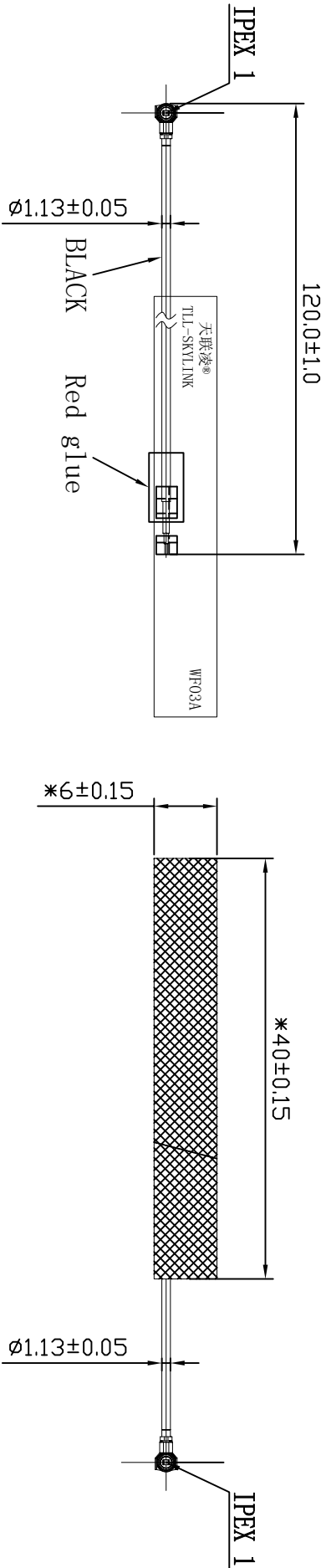
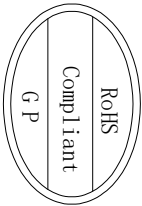
R&D Dept	Business Dept	Approved By

SKYLink

R&D Dept	Engineer Dept	Approval

● Specification Summary

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz
VSWR	<2.0
Efficiency	>50%
Peak Gain	2dbi
Impedance	50 Ohm
Polarization	Line
B. Material & Mechanical Characteristics	
Material of Radiator	FPC
Cable Type	1.13 Black
Connector Type	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



				1	2	3	4	5	6	7	8
				A							
				B							
				C							
				D							
				Rev							
				A							
				New drawing							
				Description							
				1							
				Date							
				Remark							
				Location							
				40~							
				± 0.20							
				Angle							
				$\pm 0.5^\circ$							
				DWG No.							
				Unit							
				mm							
				Scale							
				1:1							
				Rev							
				A							

SHEN ZHEN SKYLINK CO., LTD



Third Angle

Project

Date

2022-08-27

0~10

± 0.05

Part Name

Designed by

MD

10~18

± 0.10

Part No.

Checked by

RF

18~30

± 0.12

Material

Approved by

30~40

± 0.15

40~

± 0.20

Location

Angle

● Test Equipment & Conditions

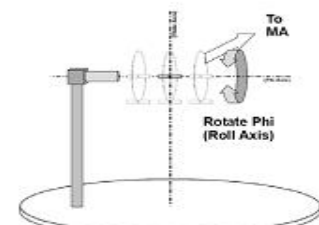
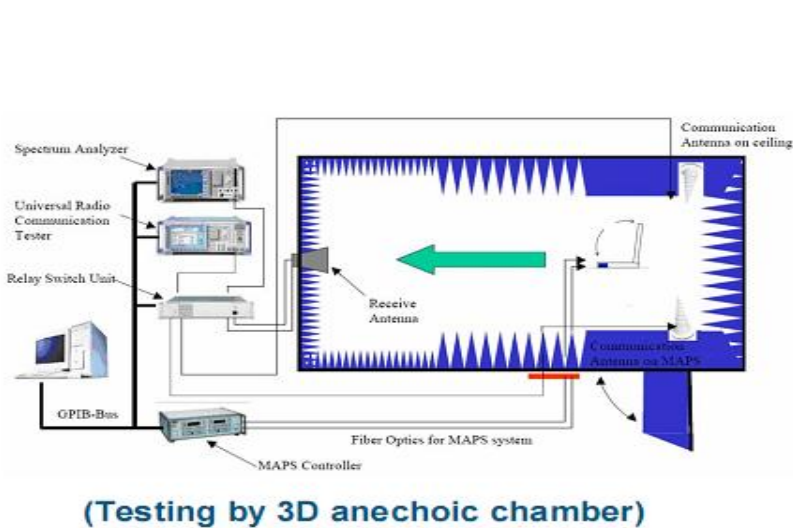
1. Network Analyzers :

Agilent 8753D 5071B

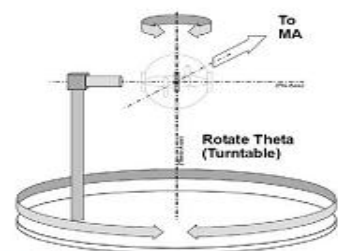
Communications Test Set:

Agilent E5515C CMW500

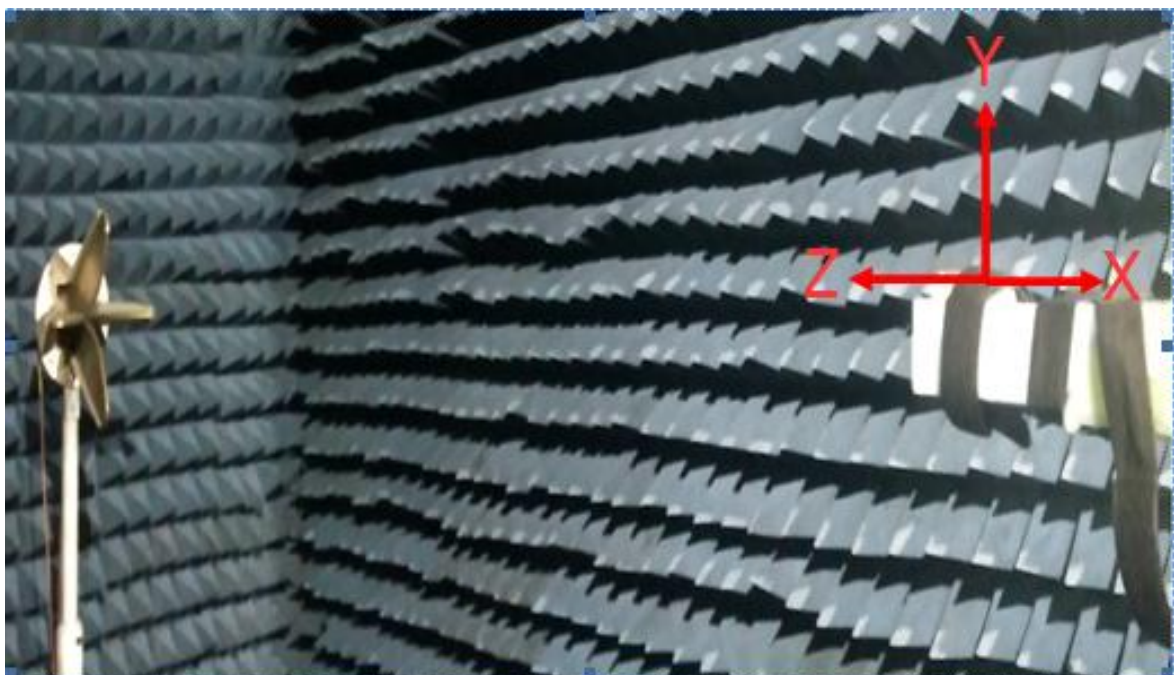
2. 3D Chamber Test System



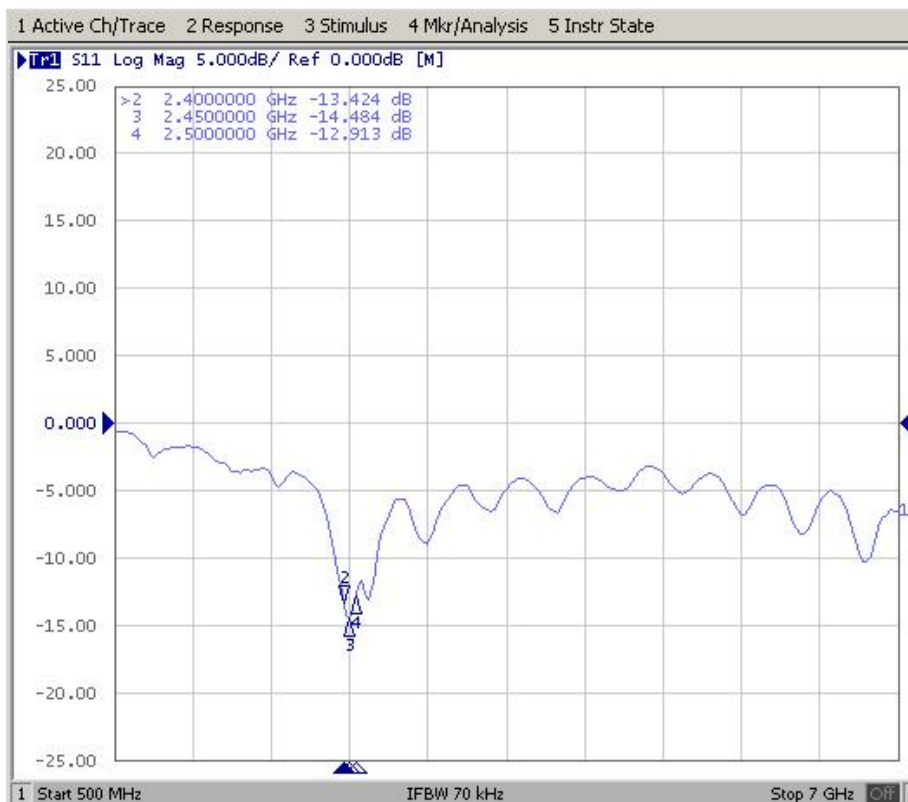
Phi axis test



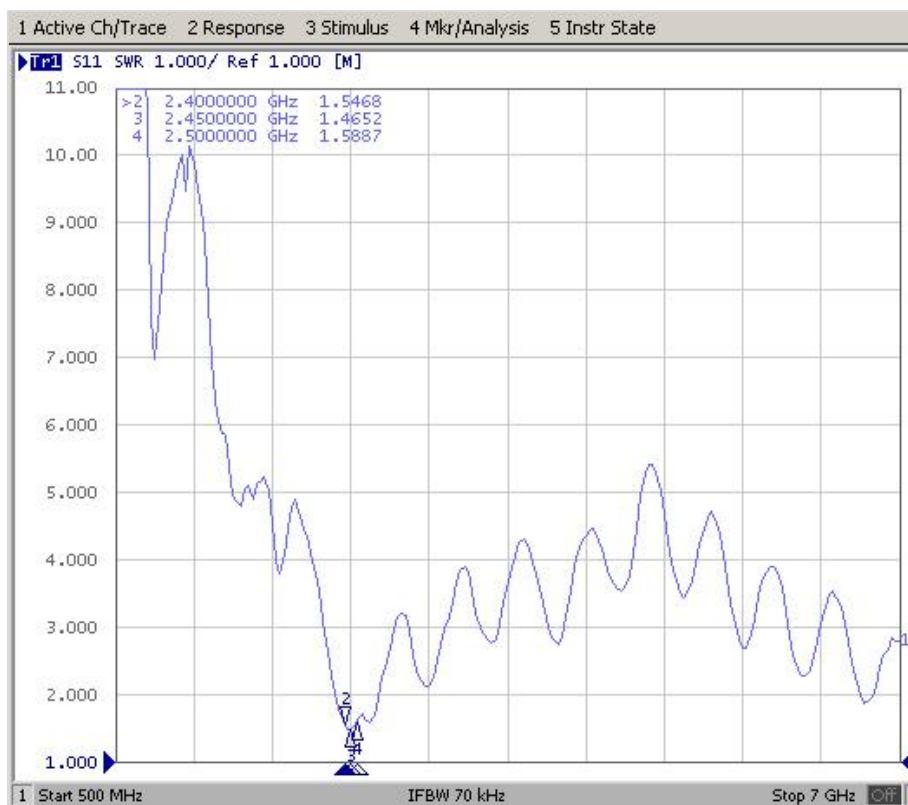
Theta axis test



◆ Return Loss



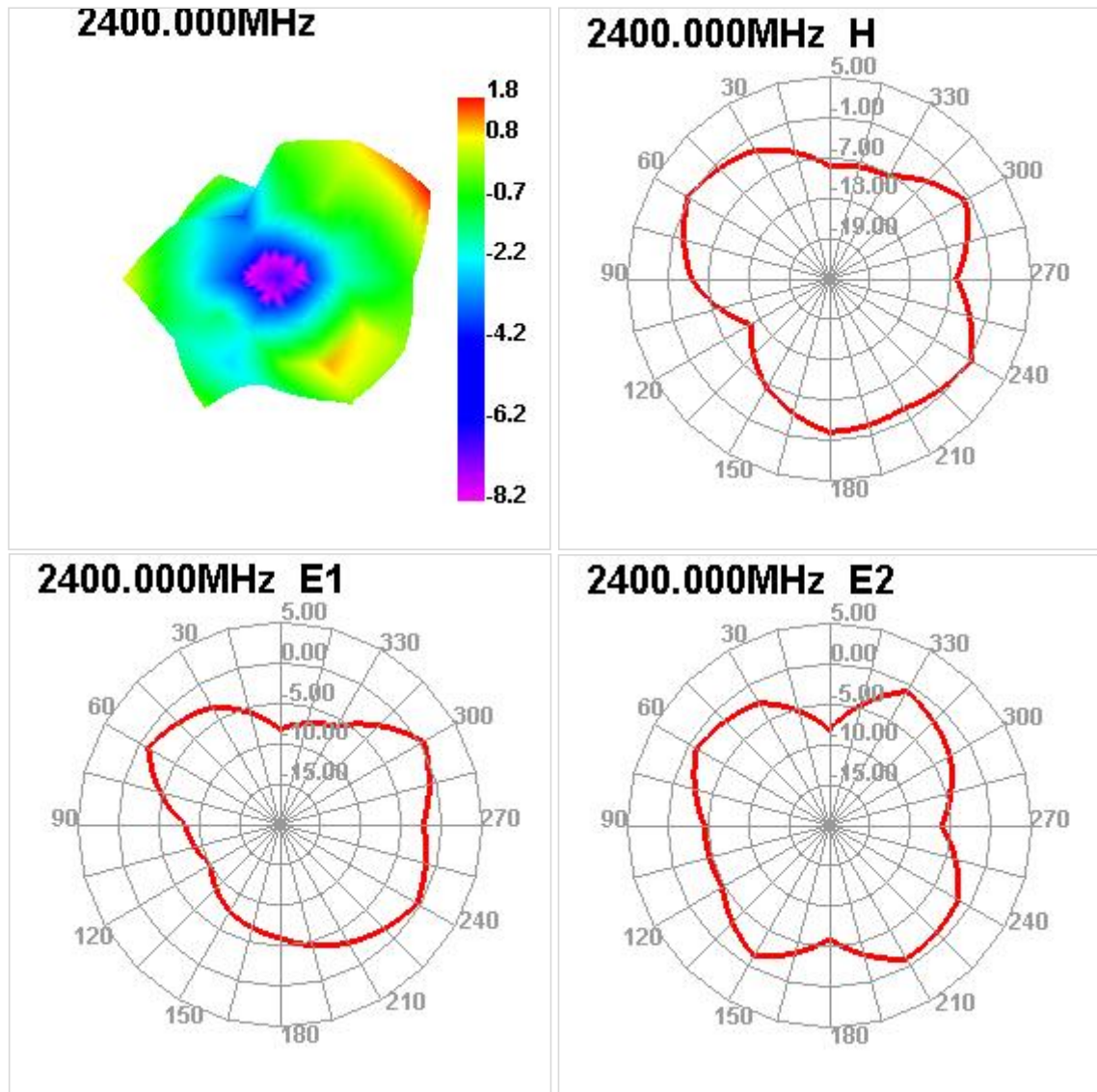
◆ VSWR

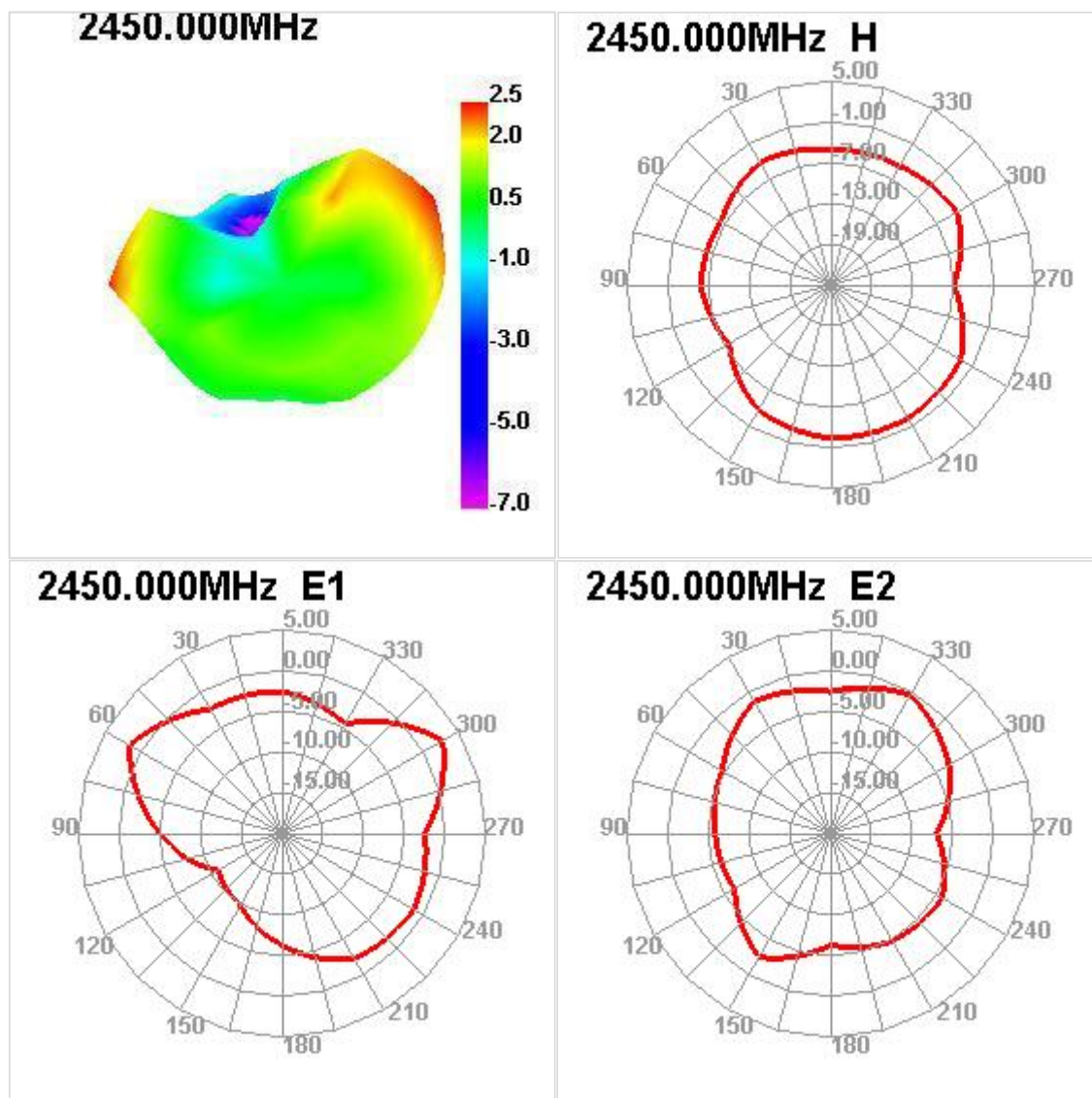


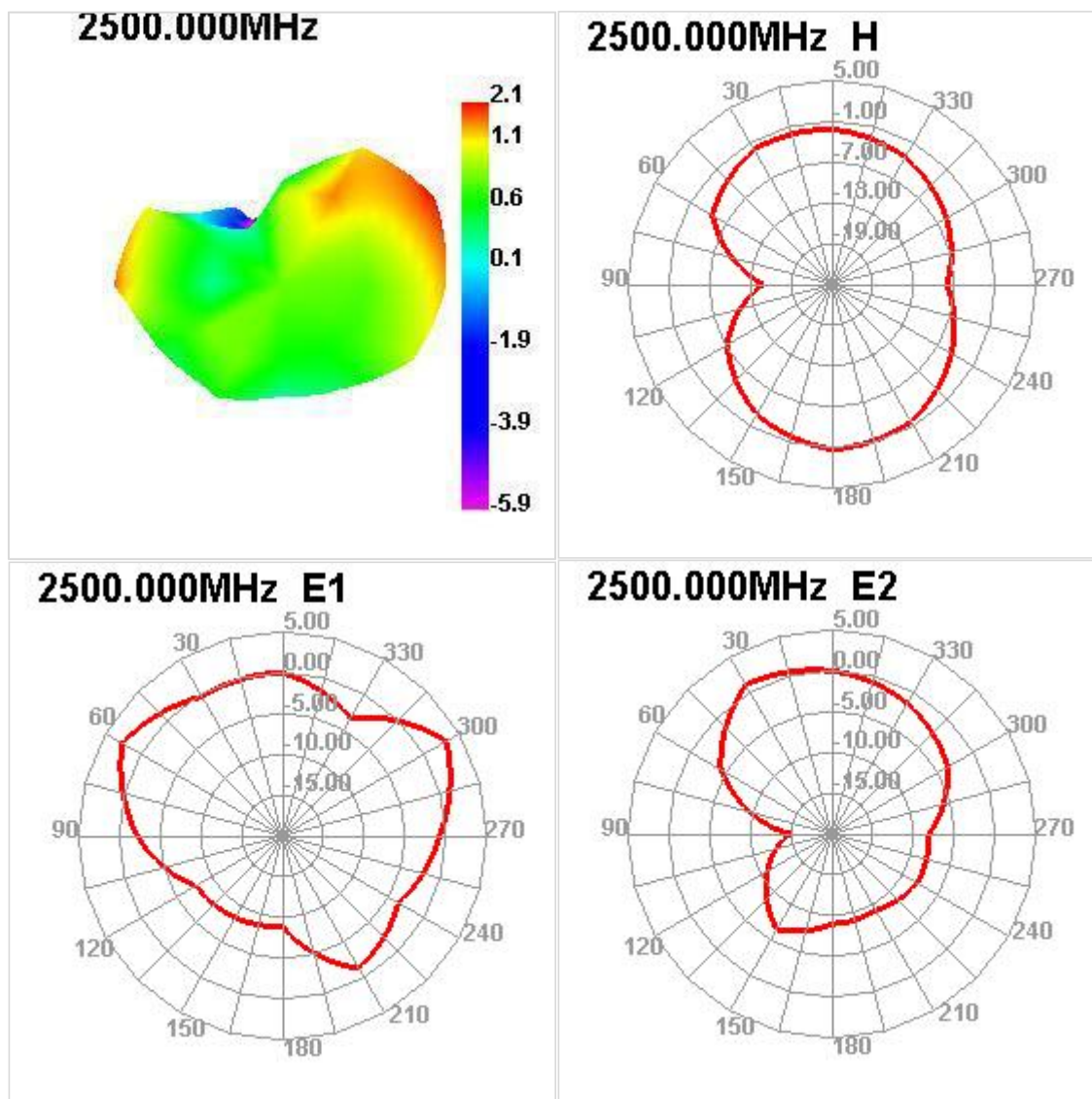
◆ Gain & Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.63	1.8
2410	56.83	2.31
2420	58.04	2.4
2430	57.17	2.35
2440	56.81	2.29
2450	55.29	2.44
2460	56.28	2.3
2470	53.63	2.01
2480	54.86	2.67
2490	55.86	2.03
2500	56.04	2.08

◆ Radiation Pattern







◆ 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