

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ WF75A WIFI Antenna _____

Part NO. : _____ WF75A. C113. 150B. 221 _____

Write By: _____ Damon Cui _____

Issued Date: _____ 2026. 06. 15 _____

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	>40%
Peak Gain	2.4G: 1.9 dbi 5.8G: 3.9 dbi
Impedance	50 Ohm
Polarization	Line
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	1.13MM Black
Connector Type	/
Dimension	At Attachment
Heat-durability	280±5℃, 10sec.
C. Environmental Characteristics	
Operation Temperature	- 20 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C

● Test Equipment & Conditions

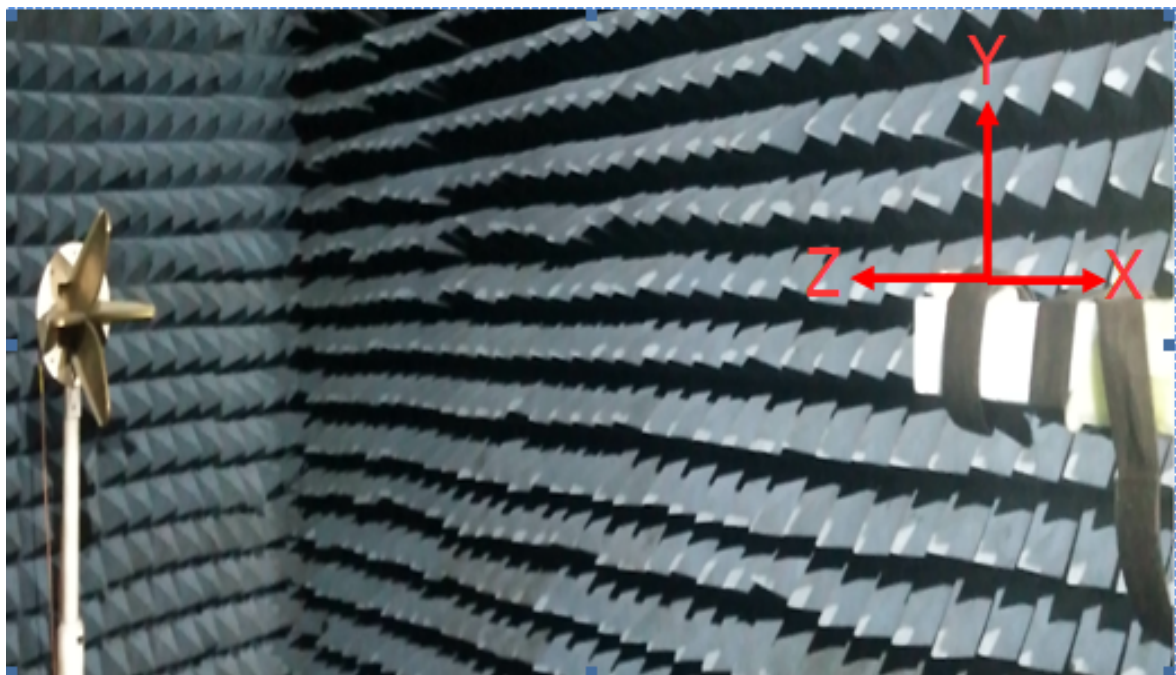
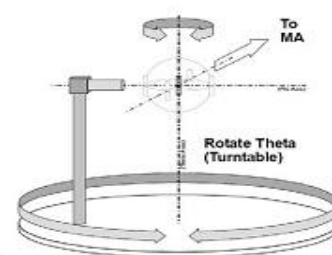
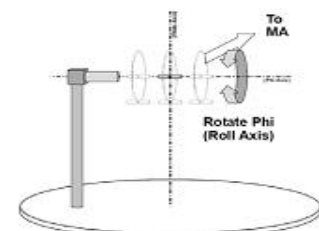
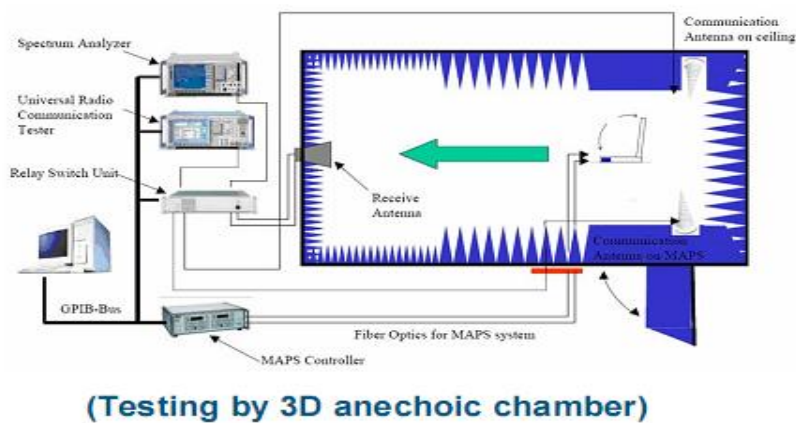
1. Network Analyzers :

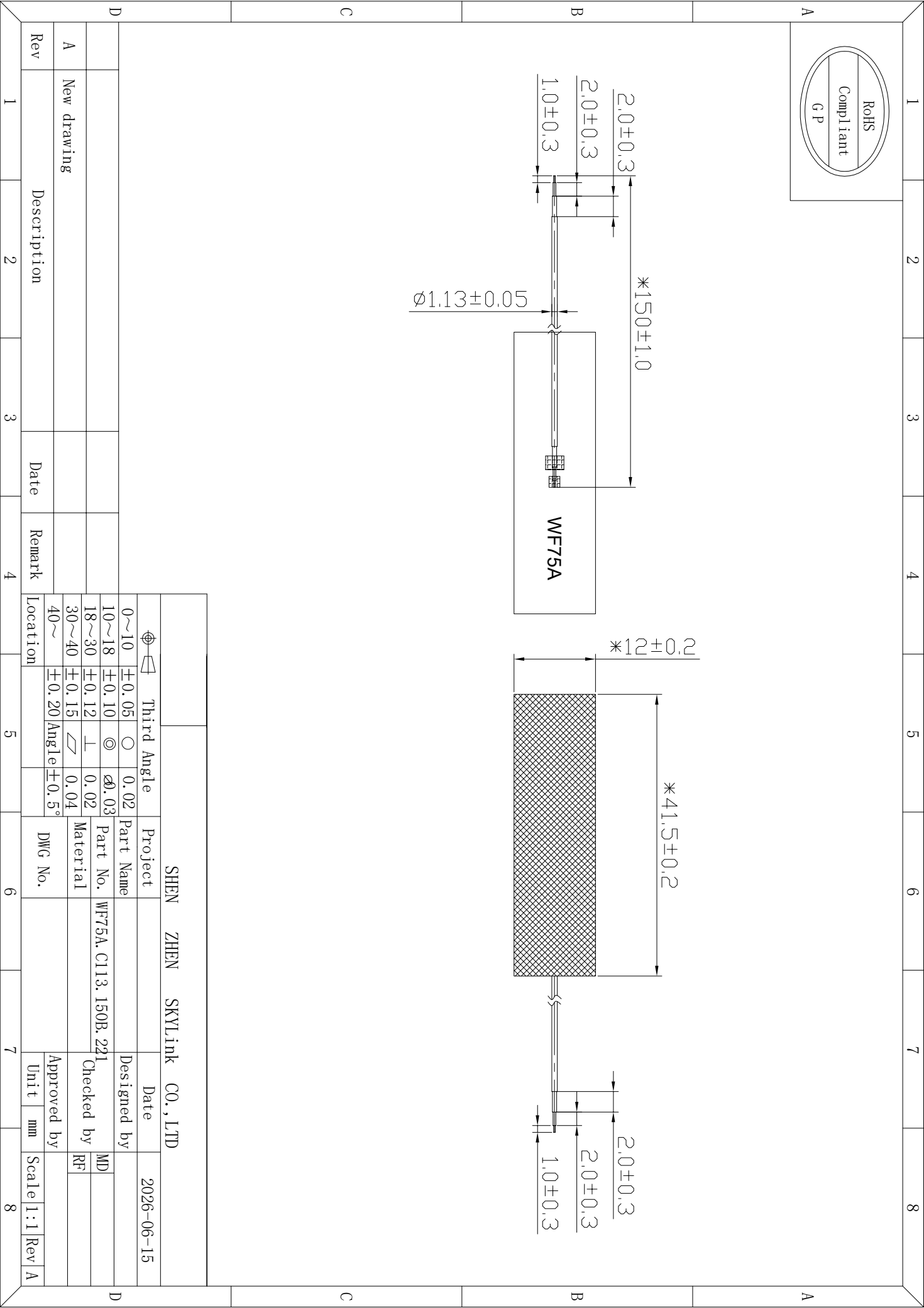
Agilent 8753D 5071B

Communications Test Set:

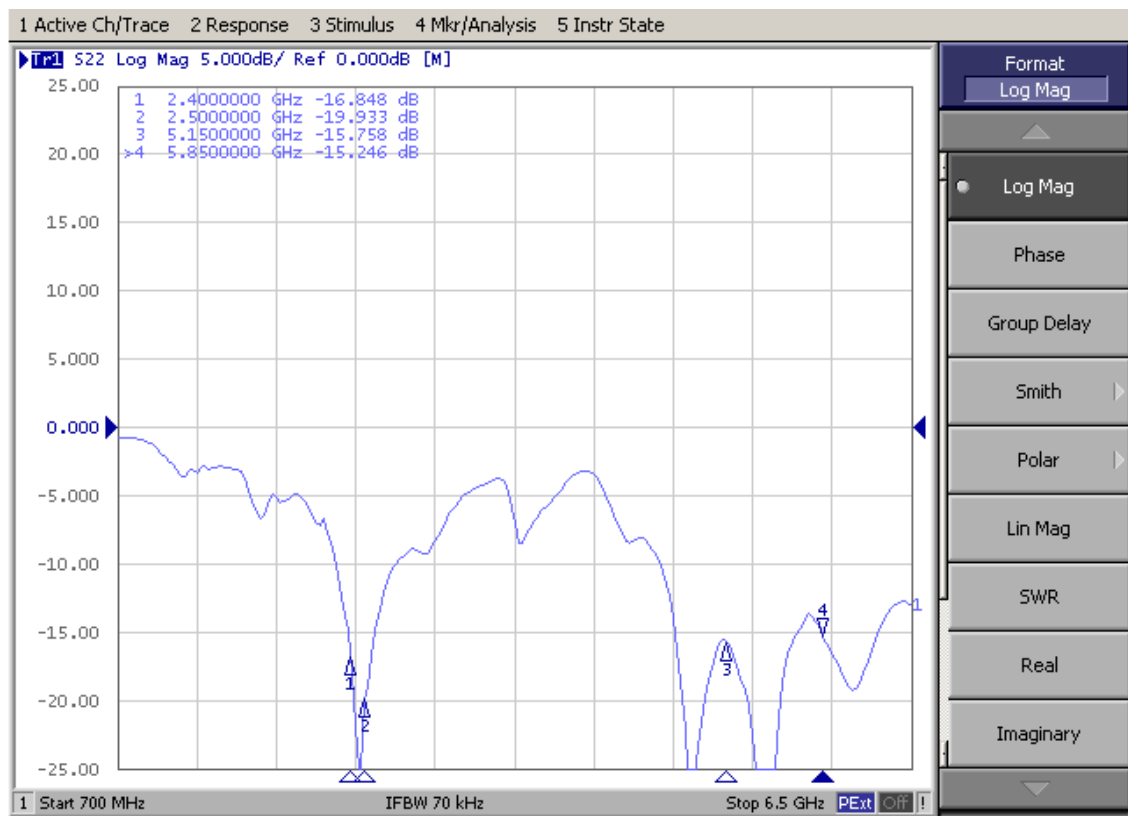
Agilent E5515C CMW500

2. 3D Chamber Test System

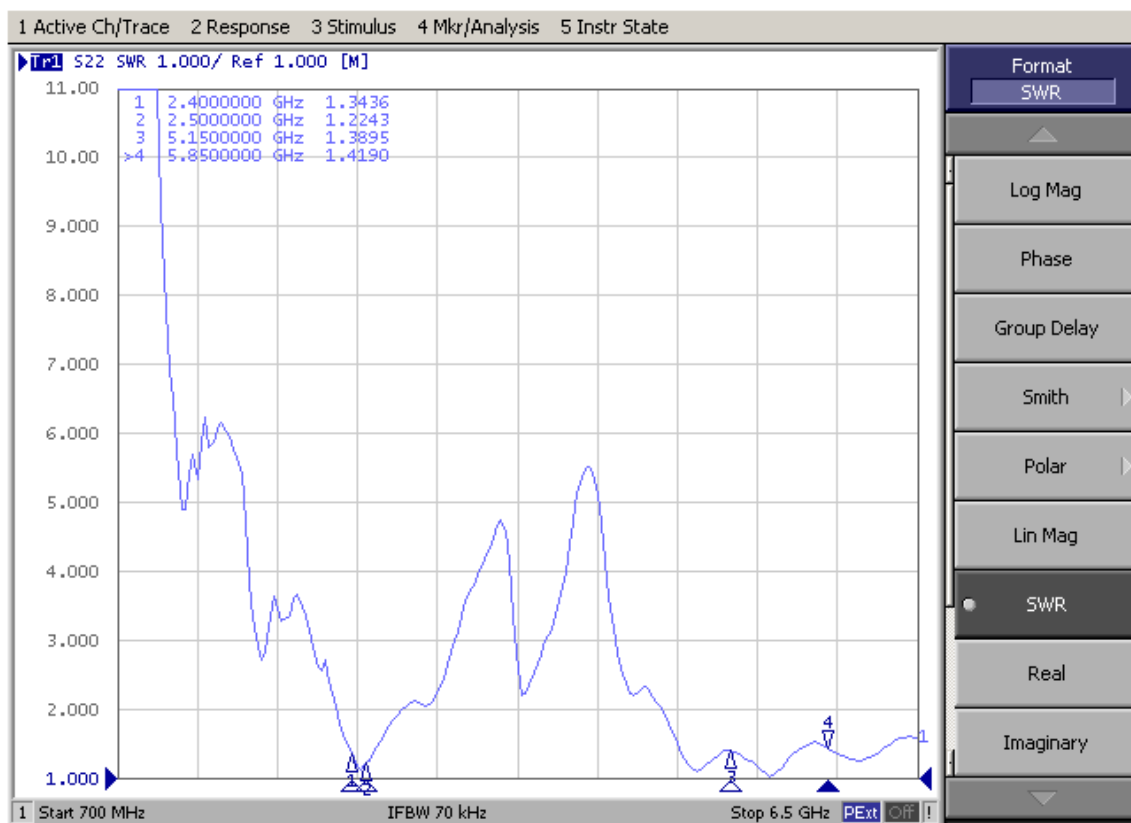




◆ Return Loss



◆ VSWR

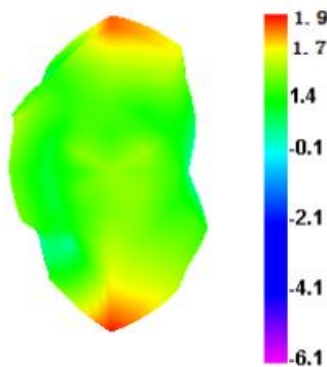


◆ Gain & Efficiency

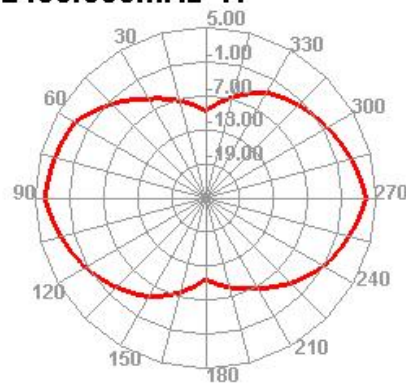
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.23	1.93	5160	42.98	3.08
2410	43.02	1.9	5200	40.02	3.27
2420	42.23	1.89	5300	41.89	2.79
2430	42.5	1.91	5400	40.85	3.23
2440	44.49	1.13	5500	43.03	3.67
2450	46.43	1.3	5600	44.2	3.16
2460	47.21	1.42	5700	45.81	3
2470	46.05	1.18	5800	45.45	3.87
2480	48.21	1.39	5860	44.15	3.77
2490	42.89	1.35			
2500	46.56	1.53			

◆ Radiation Pattern

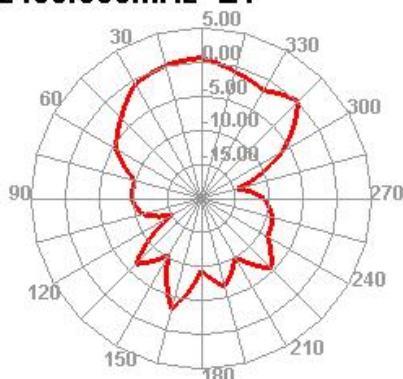
2400.000MHz



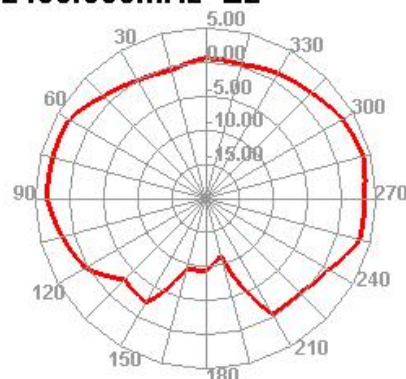
2400.000MHz H



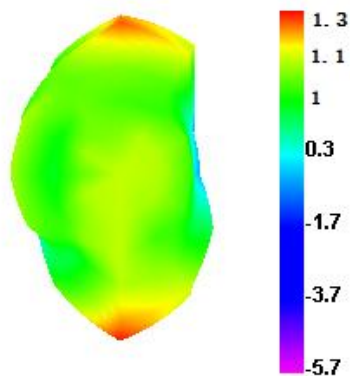
2400.000MHz E1



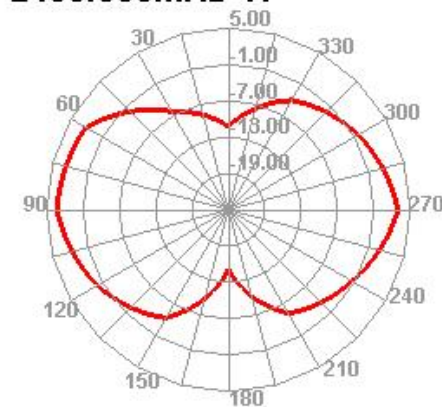
2400.000MHz E2



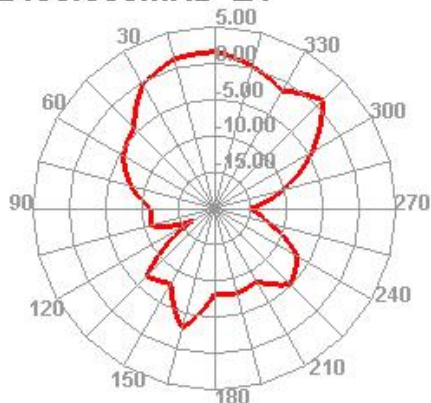
2450.000MHz



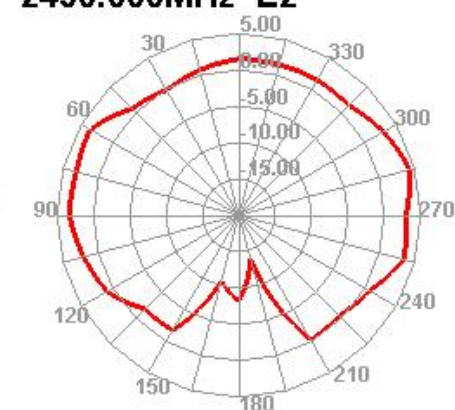
2450.000MHz H



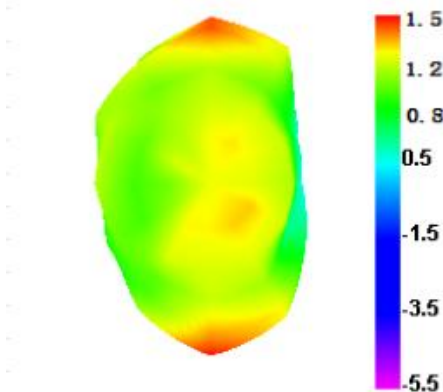
2450.000MHz E1



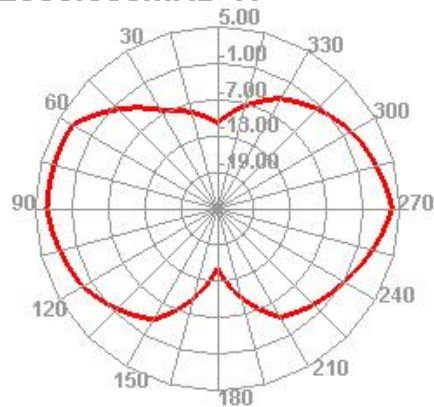
2450.000MHz E2



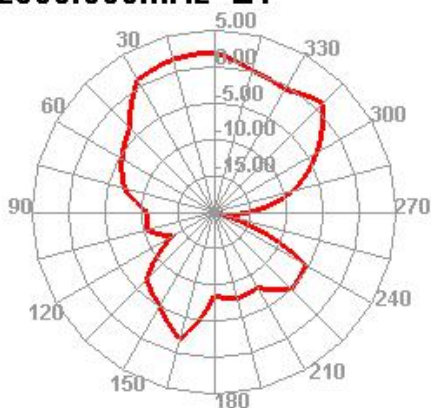
2500.000MHz



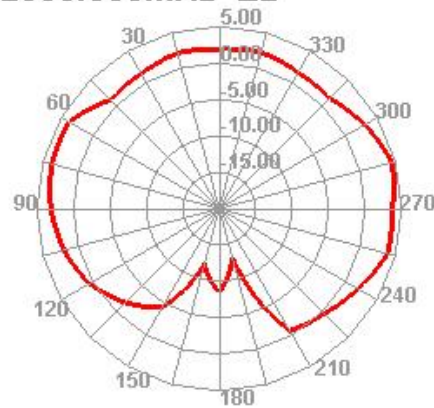
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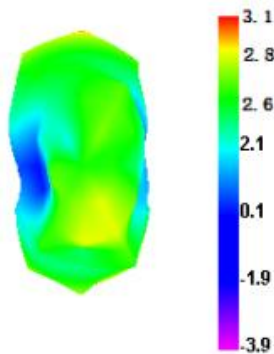
2500.000MHz E1



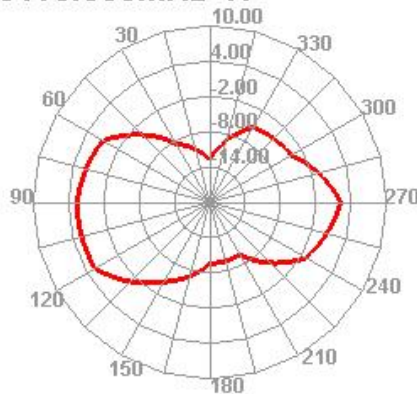
2500.000MHz E2



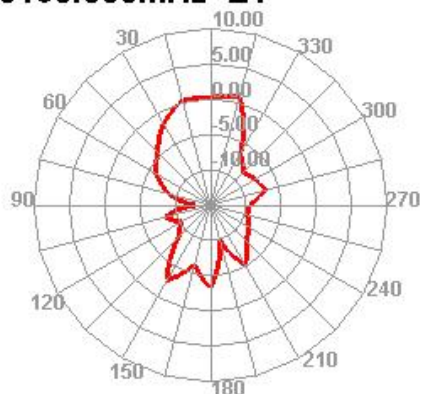
5160.000MHz



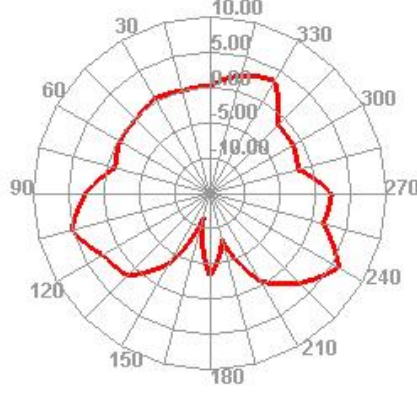
5160.000MHz H



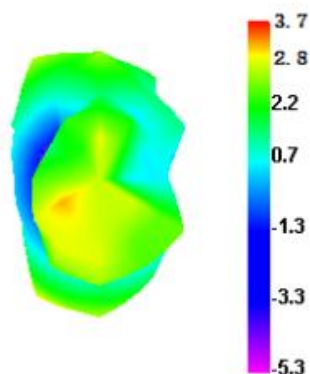
5160.000MHz E1



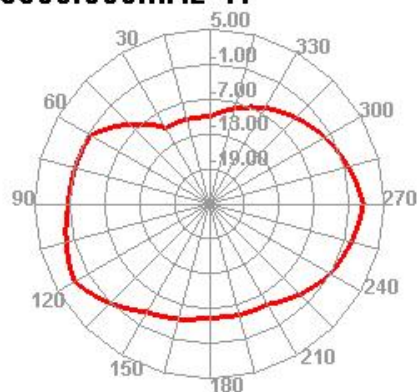
5160.000MHz E2



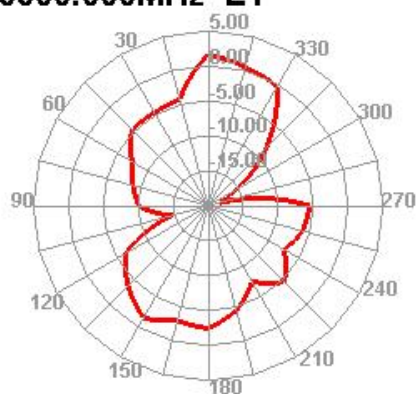
5500.000MHz



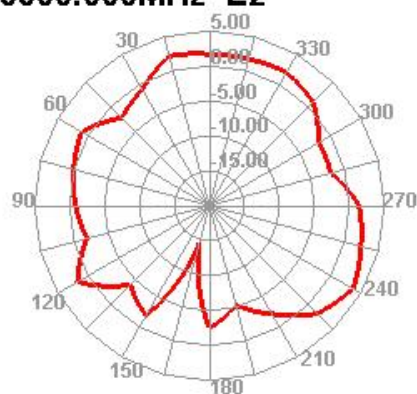
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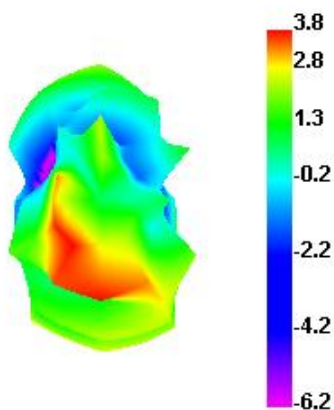
5500.000MHz E1



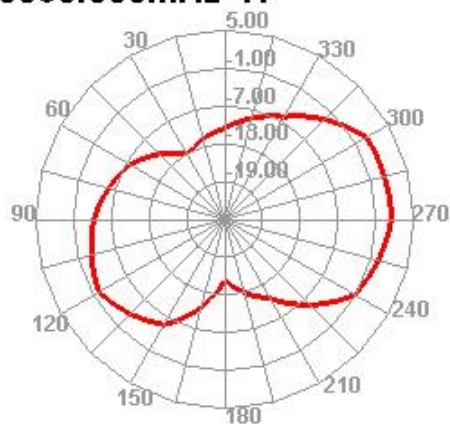
5500.000MHz E2



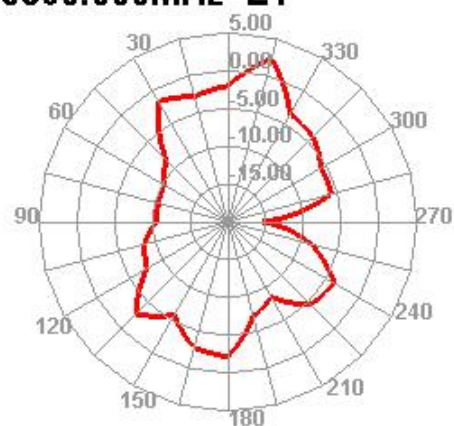
5860.000MHz



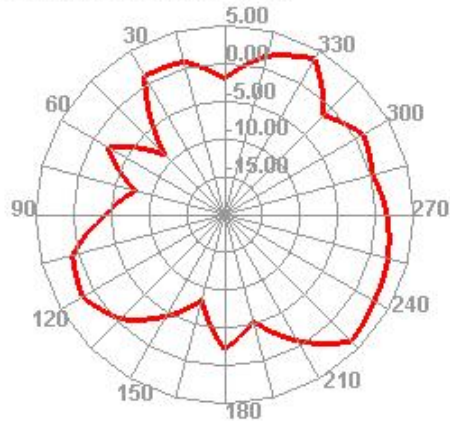
5860.000MHz H



5860.000MHz E1



5860.000MHz E2



◆ 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 ± 1 %.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS