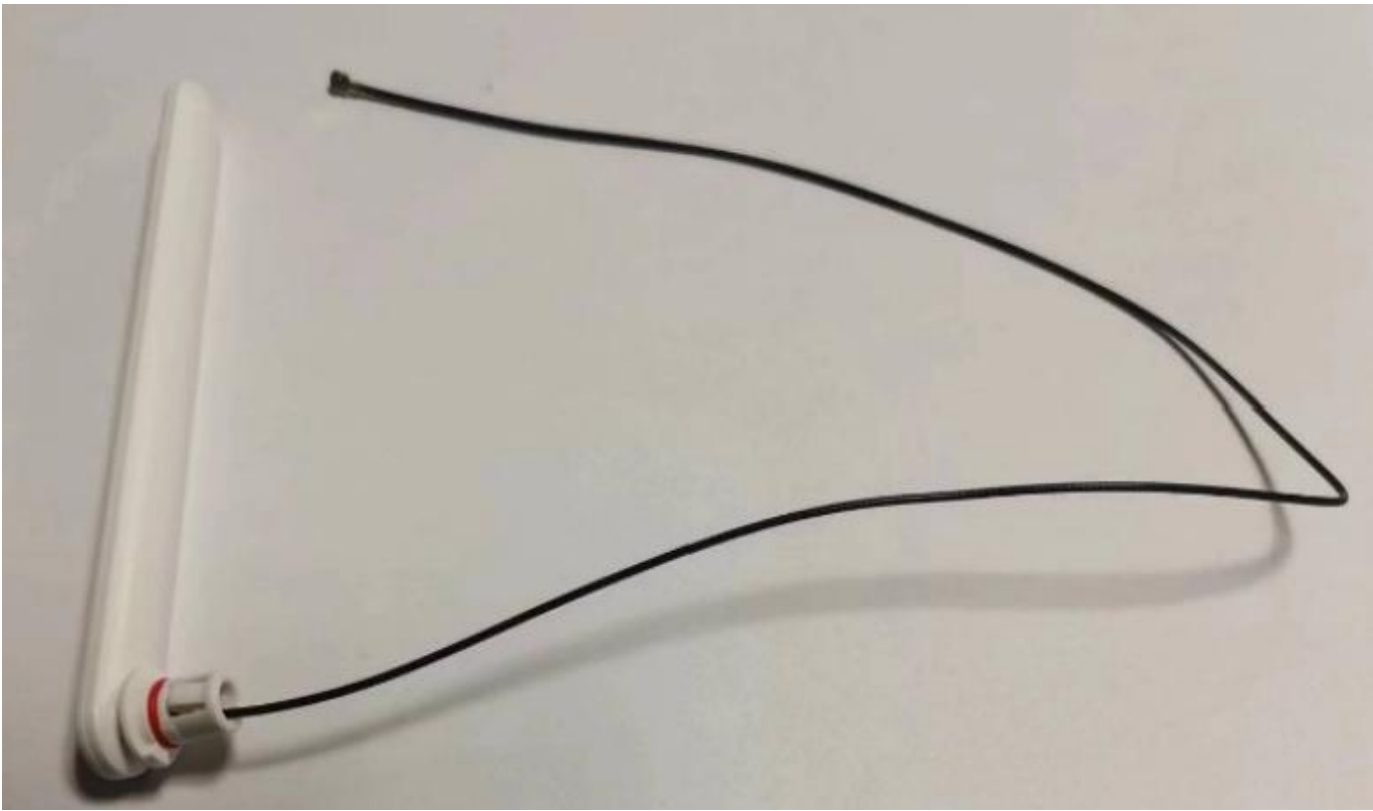


			document number:
Specification For Approval			
Customer Name:			
Supplier Name:			
Customer No. :		Supplier No. :	
product description:	2.4-5.8W71 White antenna L=250 mm + terminal	Equipped with models:	
Supplier recognition (seal):		Customer recognition (seal):	
Production: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify:	Date: 2025.03.19		

catalogue

the title page of a thread-bound book	1
catalogue	2
1. product picture	3
2. Product Parameter	3
3. S11, the dark room data	4--7
4. Antenna efficiency and gain value.....	8
5. Product size drawings.....	9
Vi. Environmental reliability experiment report	10

1. product picture



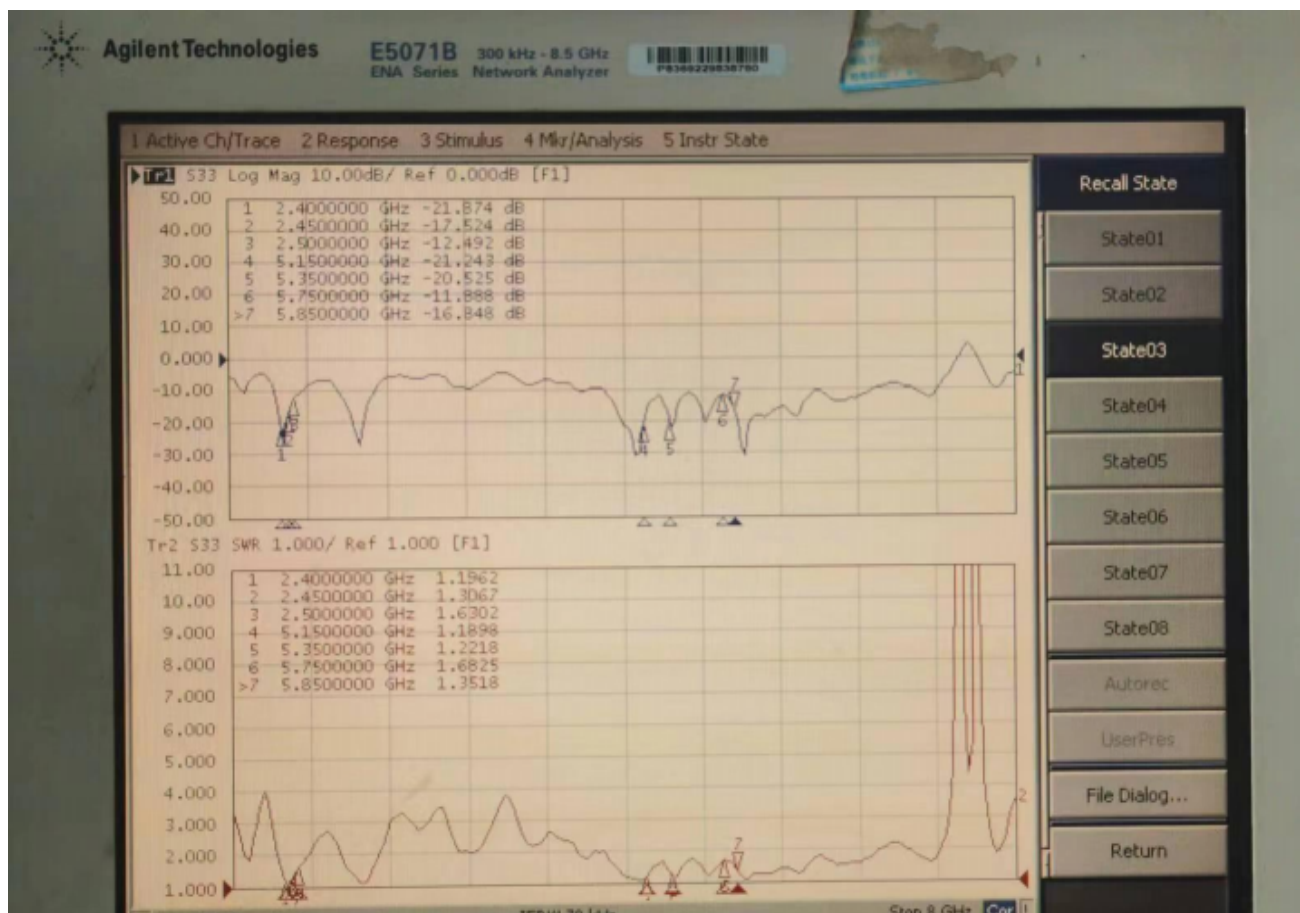
2. Product Parameter

Product test parameters			
Product Name (Name)	External WIFI antenna	Product Model Number (Model Type)	2.4-5.8W71 White antenna L=250mm + terminal
Electrical performance index (Electrical Specifications)			
Frequency Range (Frenquency Range)	2.4-5.8G	Polarization mode (Polarization)	perpendicular
Human impedance (Impedance)	50 Ω	radiation direction	omnidirectional
Standing Bobby (VSWR)	≤2	Power capacity (Power)	50W
Gain (Gain)	3dBi	Bandwidth (Bandwidth	100MHz

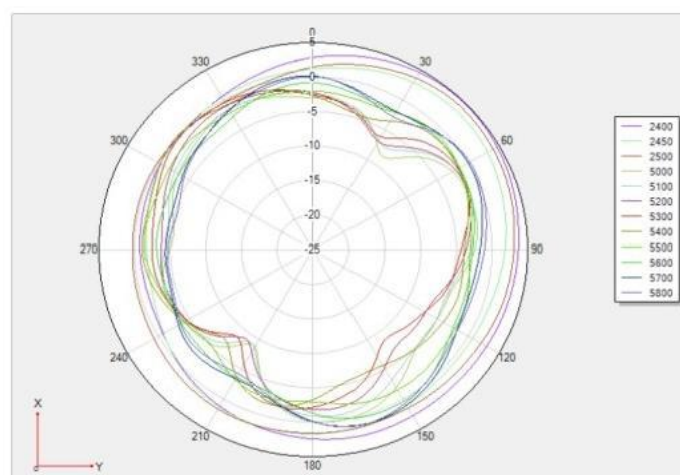
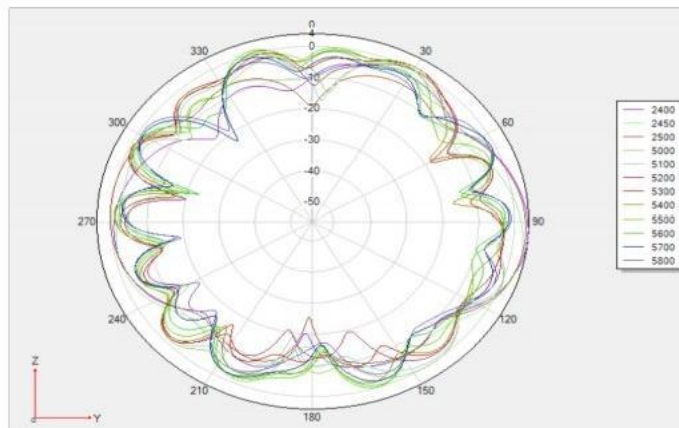
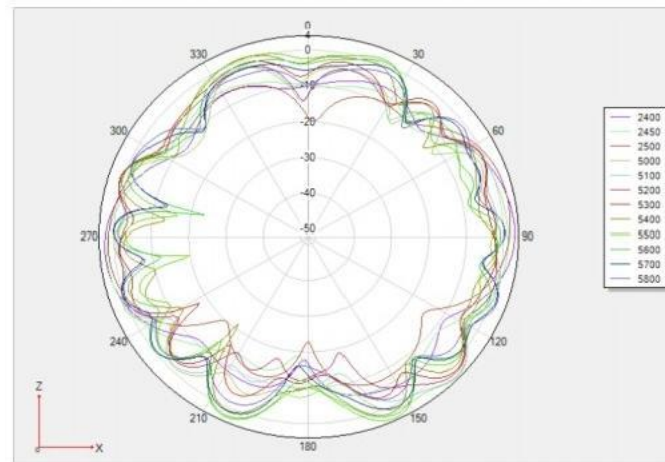
Mechanical index (Mechanical Specifications)			
Dimensions (Dimensions)	105.5MM $\pm$ 2MM	Antenna Color (Chassis whiteColor)	
Connector model (Connector)	Generation end	Lead length (Cable Length)	250MM $\pm$ 5MM
Antenna material (Chassis Material)	ABS		
working temperature (Working Temperature)	-40 $^{\circ}$ C $\pm$ 85 $^{\circ}$ C	Storage temperature (Limit Temperature)	-40 $^{\circ}$ C $\pm$ 85 $^{\circ}$ C

3. S11 (VSWR, Return loss, Smith) -Dark-room test data

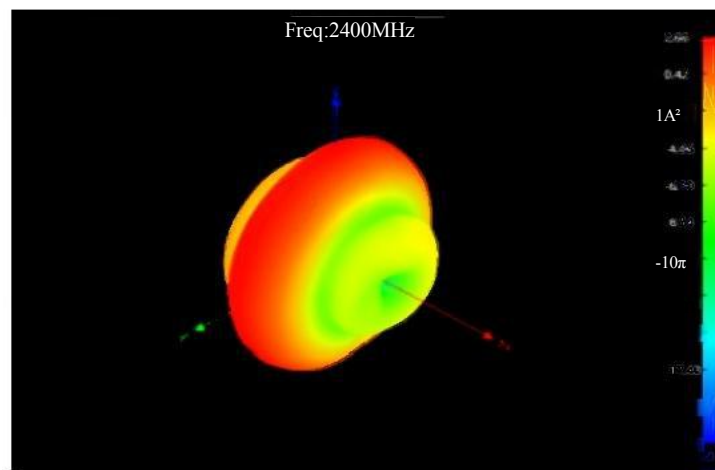
one. The Network Analyzer Report



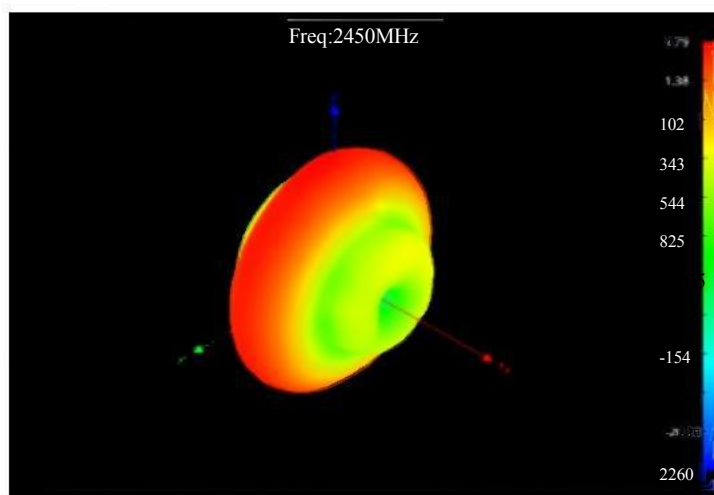
2. The 2 D direction map of the dark room data



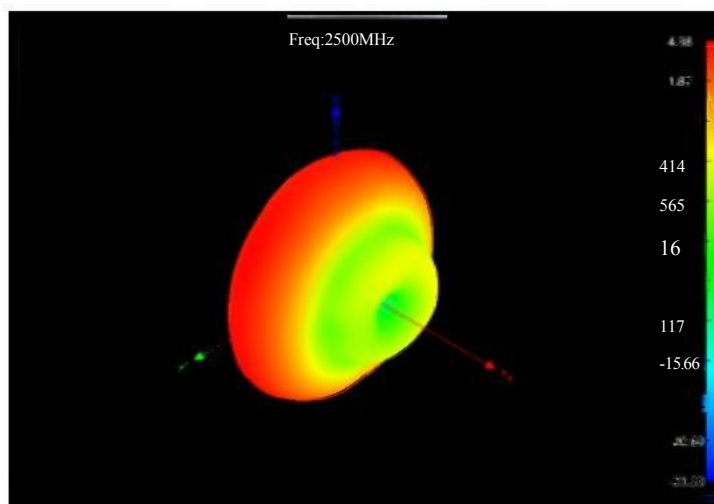
3. The 3 D orientation diagram of the dark room data



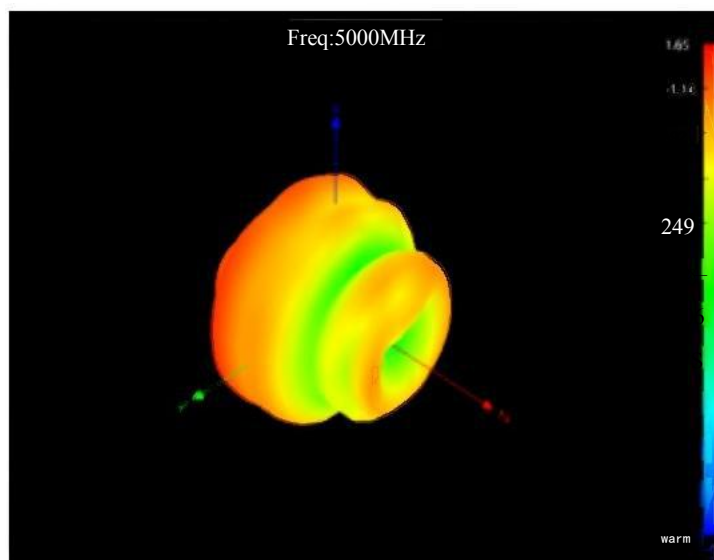
2400MHZ



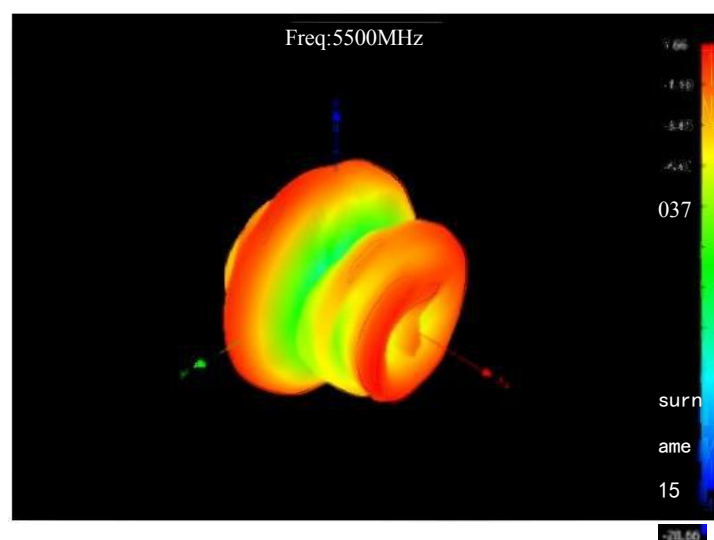
2450MHZ



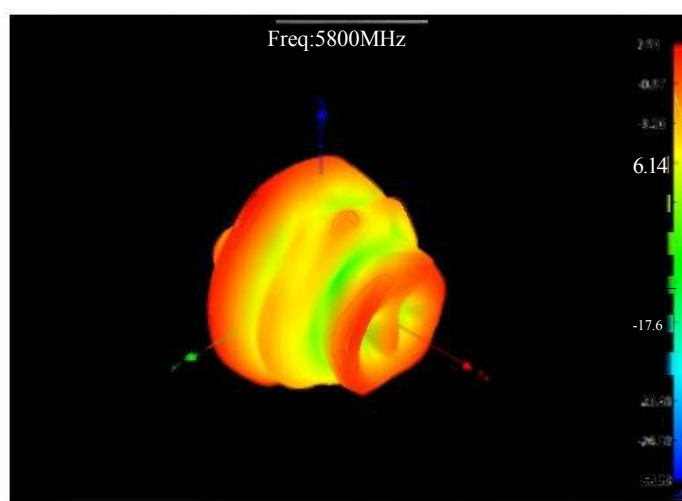
2500MHZ



5000MHZ



5400MHZ



5800MHZ

4. Antenna efficiency and gain value

Frequenc	Efficiency	Efficiency / %		Frequenc	MaxGain/	AvgGain/dBi	
2400	-3.03	49.77		2400	2.66	-3.03	
2450	-2.22	59.98		2450	3.79	-2.22	
2500	-1.67	68.08		2500	4.38	-1.67	
5000	-3.15	48.42		5000	1.65	-3.15	
5100	-2.67	54.08		5100	0.26	-2.67	
5200	-2.3	58.88		5200	0.17	-2.3	
5300	-2.34	58.34		5300	1.16	-2.34	
5400	-2.46	56.75		5400	1.55	-2.46	
5500	-2.68	53.95		5500	1.66	-2.68	
5600	-3.14	48.53		5600	1.64	-3.14	
5700	-2.67	54.08		5700	2.18	-2.67	
5800	-2.26	59.43		5800	2.51	-2.26	

5. Product size drawings

Antenna color:

105.4

12.1

13.0

7

250

Line

IPEX

General tolerances		design:	
No tolerance		proofread:	
0~5	±0.5	ratify:	
5~10	±1.0	Phase marker unit scale	
10~50	±2.0	plot amplitude	
50~	±5.0	mm A 4	

name of a part:

Model: WIFI-W71 White

Antenna Customer:

VI. Environmental performance test

Storage environment	Test temperature, humidity, air pressure without specified: 1. Temperature is- 30℃ ~ + 80℃ 2. Relative humidity is 45% -85%3. Air pressure is 86 kpa -106 kpa	Electrical and mechanical properties are normal
thermocycling	Five cycles were performed between 70℃ and 40℃ and then 1-2H under normal conditions.	Dimensions shall meet the requirements and shall be Meet the satisfaction In the mechanical and electrical performance
Resistance to constant damp and heat test	Relative humidity: $95 \pm 3\%$, test temperature: 40℃. After a sustained 2H action, Measure the electrical performance of the test article within 5 min after its removal. The test article is 1-2H under normal conditions to check the appearance quality	Dimensions shall meet the requirements and shall be Meet the satisfaction In the mechanical and electrical performance
vibration test	Dynamic frequency range: 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical properties are normal
fall-down test	1M falls 3 times in the axis direction vertical to each other	Electrical and mechanical properties are normal