Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	
CUSTOMER P/N	2.4G +5.8G
PART NAME	WIFI Antenna
Material code	
APPROVAL REV.	DWM-V1.2

CONTRACTOR			**DATE：2024-06-12**
QA CHECKED	**ME CHECKED**	**RF CHECKED**	**MANAGER CHECKED**
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CUSTOMER		**DATE：**
Approved By	**Checked By**	**Prepared By**

TEL：13603094246

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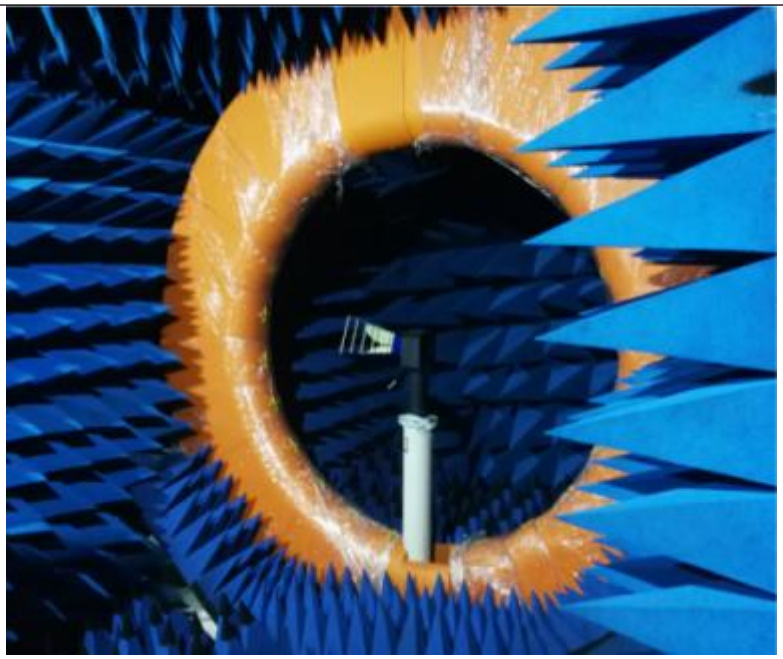
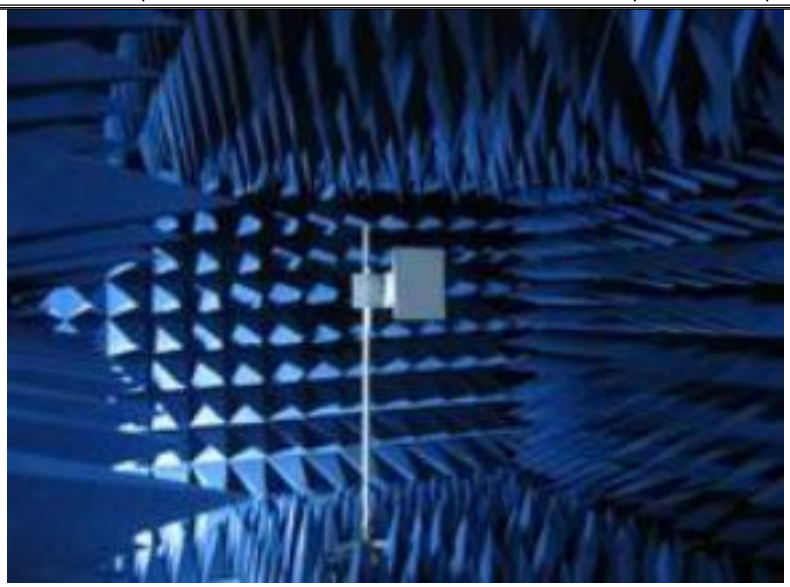
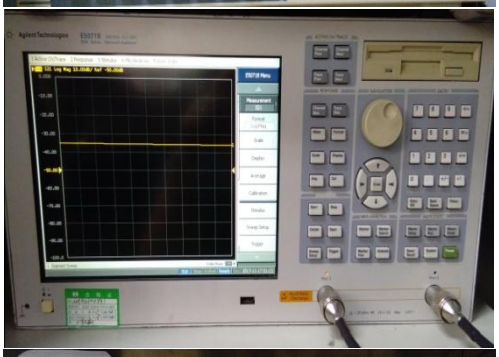
1. Product Application

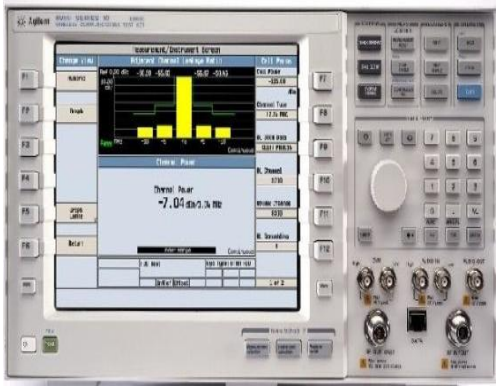
Terminal of the antenna products can only be used for WIFI antenna.

2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer →measurement Cable → Customer-providing Devices.	VSWR： 2400MHz~2500MHz<2.5 5150MHz~5850MHz<2.5
		Test equipment	
Item	Description	Test Condition	Requirement

2.2	Active test	Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.	Antenna gain: 2400MHz~2500MHz:2dBi±1dBi 5150MHz~5850MHz:4dBi±1dBi Antenna efficiency: 2400MHz~2500MHz>35% 5150MHz~5850MHz>35%
2.3	Microwave Anechoic （Satimo&ETS）	Test equipment/测试设备	
			

		
2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960	 

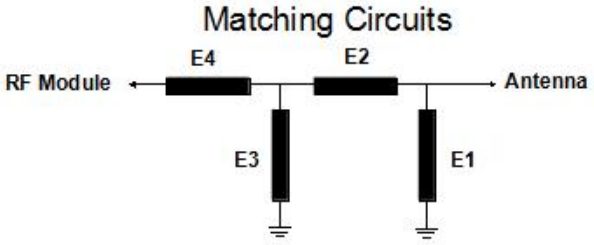


3.Technology Parameters

Frequency Range	2400MHz~2500MH&5150MHz~5850MHz
Operating Humidity	85% R.H.MAX
Temperature Rating	-40℃～+85℃

3.1 The matching test value

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	



3.2 VSWR

2400-2500MHz

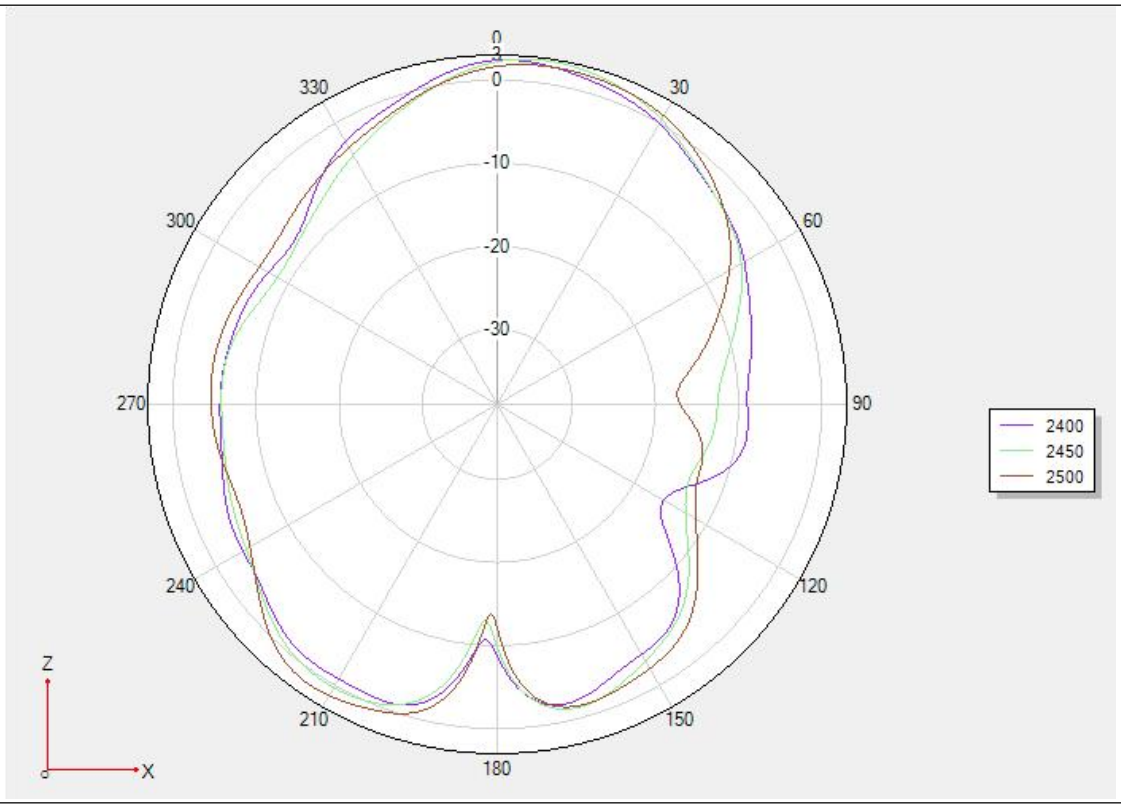
3.3. Efficiency And Gain/效率和增益

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	35.32	2.42
2410	33.57	2.51
2420	34.99	2.6
2430	36.06	2.68
2440	35.32	2.78
2450	36.56	2.75
2460	37.5	2.59
2470	36.73	2.38
2480	38.19	2.22
2490	40.18	2.29
2500	38.64	2.24

3.4 2D & 3D PHOTO

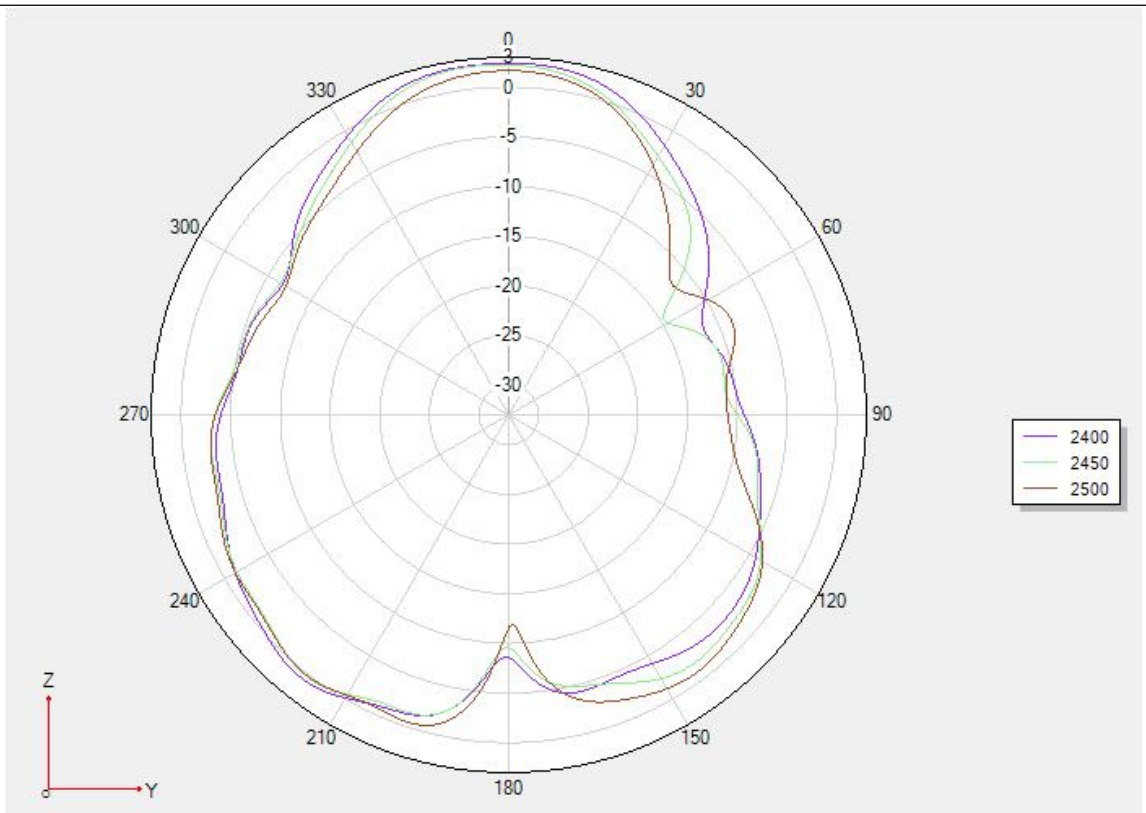
2.4G

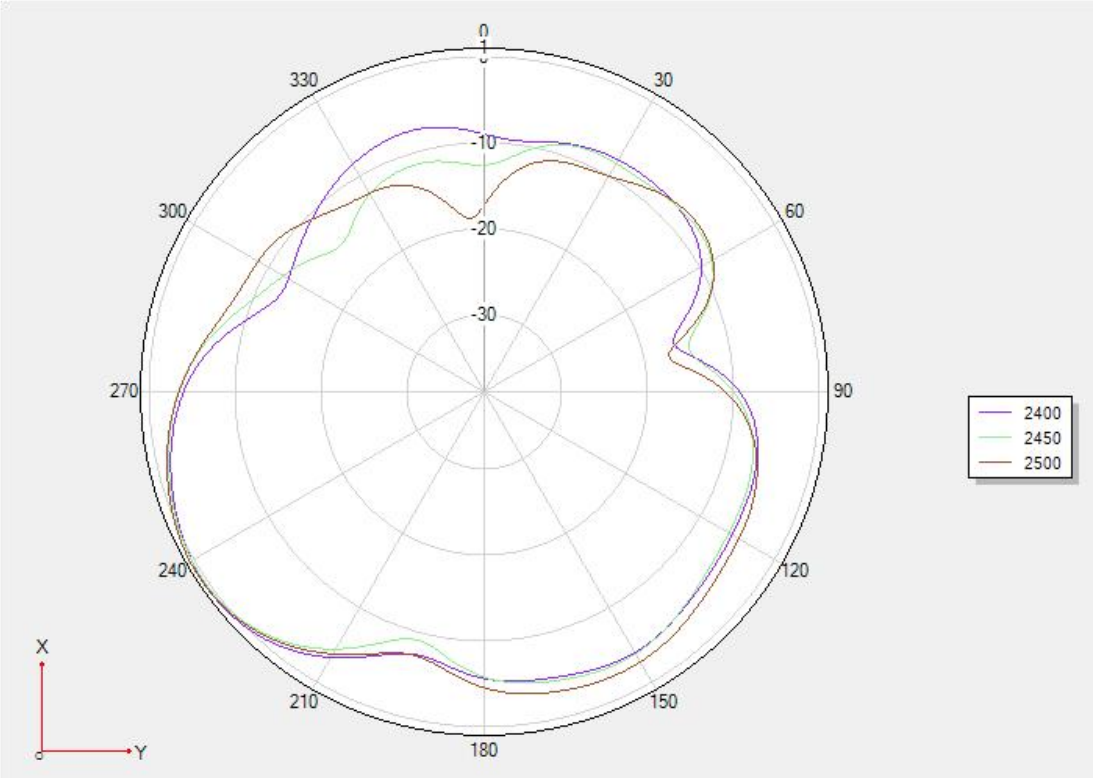
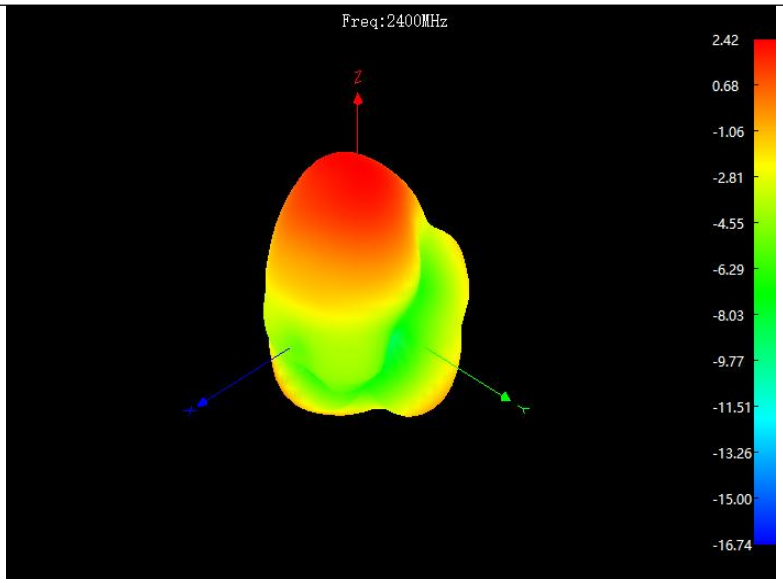
PHi 0°



2.4G

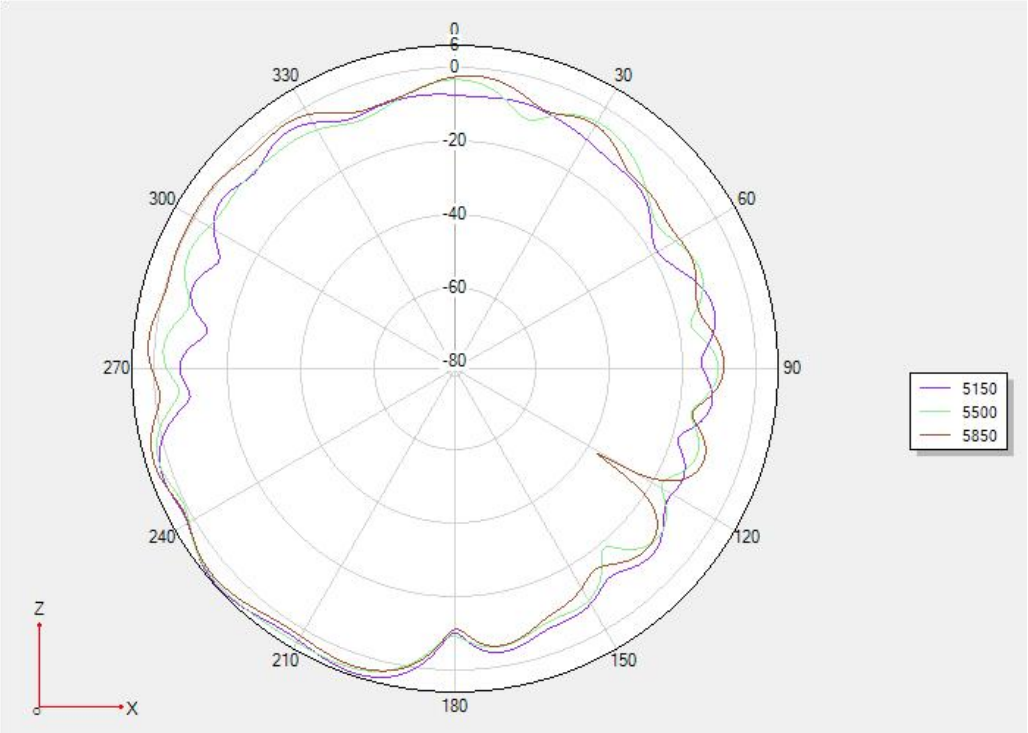
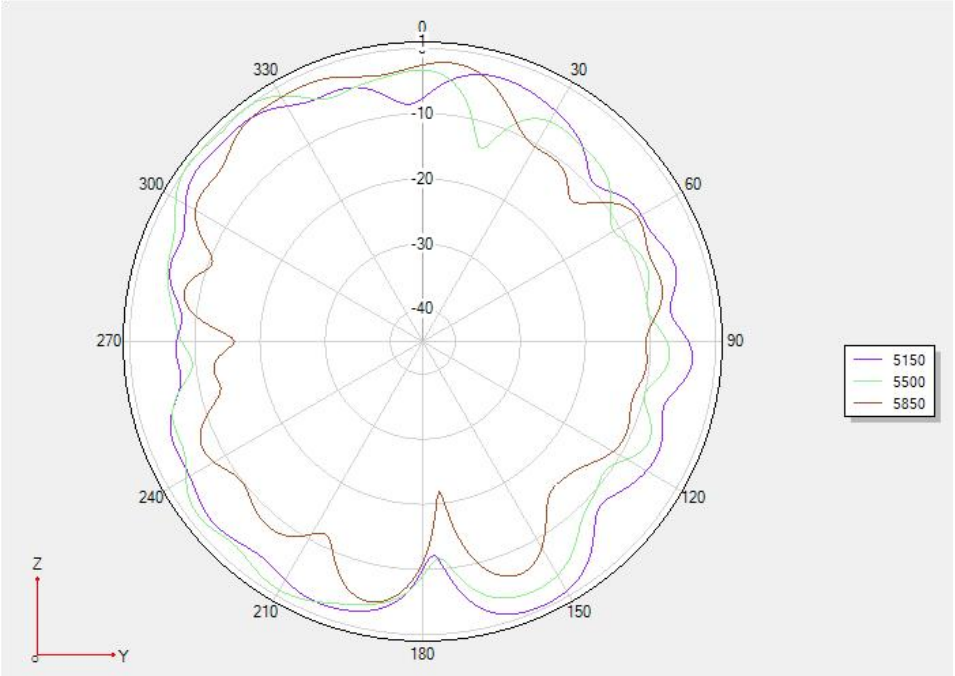
PHi 90°

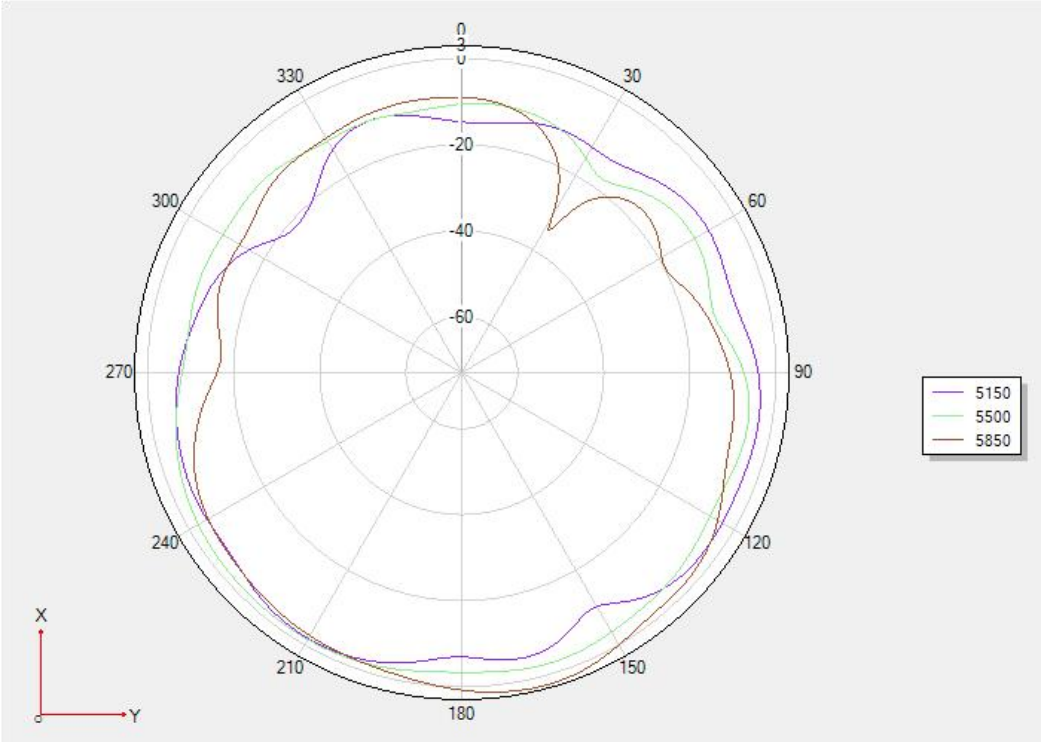
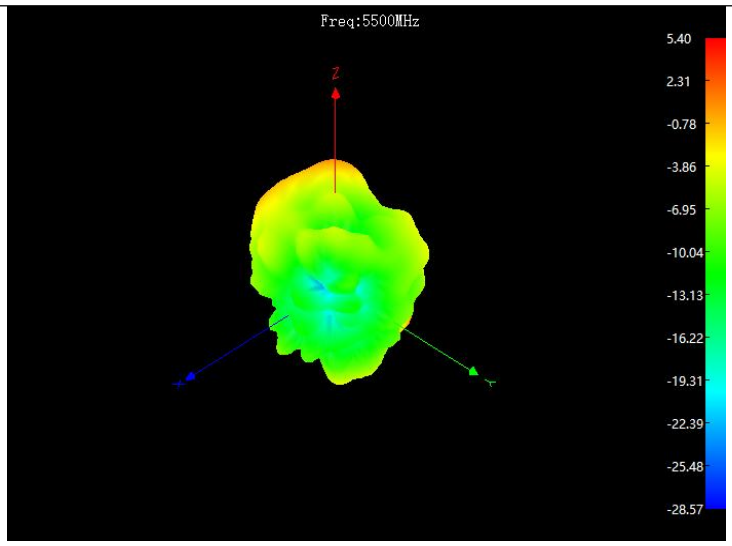


2.4G Theta 90°	
2.4G (3D Pattern)	

VSWR 5.8

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	40.36	5.86
5200	43.85	6.41
5250	44.57	6.75
5300	43.85	6.69
5350	43.85	6.73
5400	41.5	6.27
5450	37.15	5.65
5500	36.39	5.4
5550	36.04	4.66
5600	37.12	4.11
5650	38.48	4.23
5700	36.7	4.66
5750	37.73	4.86
5800	38.89	4.75
5850	37.04	4.83

5.8G PHi 0°	
5.8G PHi 90°	

5.8G Theta 90°	
5.8G (3D Pattern)	

4. Product photo

5.Environmental Performance

Item	Description	Test Condition	Requirement
5.1	High and low temperature test	Temp.: -40 ℃ Time: 48 hours Temp.: 85℃ Time: 48 hours	1. No visible damage. 2. The electric performances reach the standard.
Item	Description	Test Condition	Requirement
5.2	Salt Spray	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1℃ Time:24 hours	1. No color change. 2. the appearance of the antenna does not flake off.

6.Usage Precaution

No	Items	Matter
6.1	Precautions	a)Please avoid the cleaning of this producta)
No	Items	Matter

6.2	Stockpile condition	Use this product within 6 months after receipt Condition : Temp: 5~30℃ Humidity:≤70%

7. Packing metho

Bag shipment，100pcs。