



1.1 Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500 MHz 5150MHz ~5850 MHz
VSWR	<2.0
Efficiency	>40%
Impedance	50Ohm
Polarization	Linear
Gain	≤2.39dB
B. Material & Mechanical Characteristics	
Material of Radiator	FPC(Black),LJWF29A
Cable Type	Φ1.13mm,L300mm,gray
Connector Type	IPX1
Dimension	43.0*11.5mm
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C
Humidity	40%~95%

1.2 Test Equipment & Conditions

- | | |
|----------------------------------|---------------------|
| 1.Network Analyzers | Agilent 8753D/5071C |
| 2.HSPA and LTE protocol test set | R&S CMW500 -PT |
| 3.Communications Test Set | Agilent 8960 |
| 4.3D Chamber Test System | |

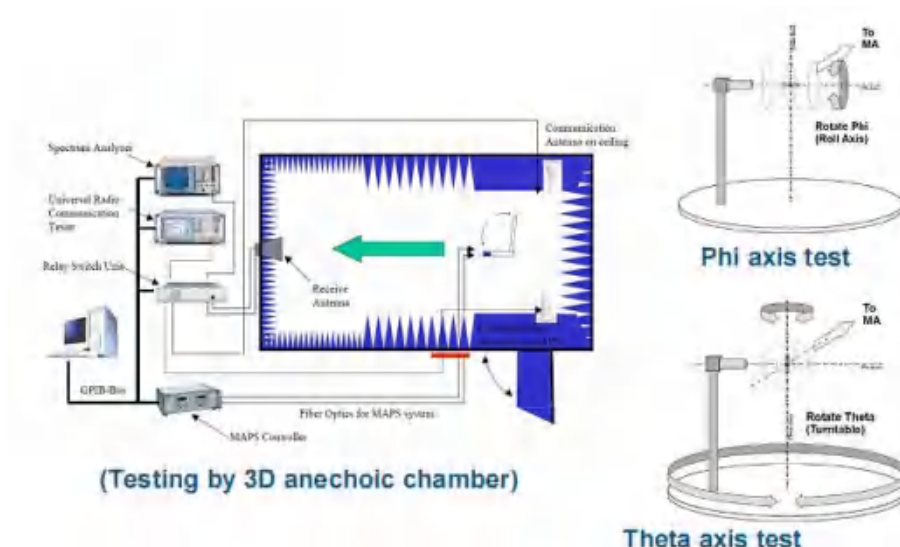


图 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

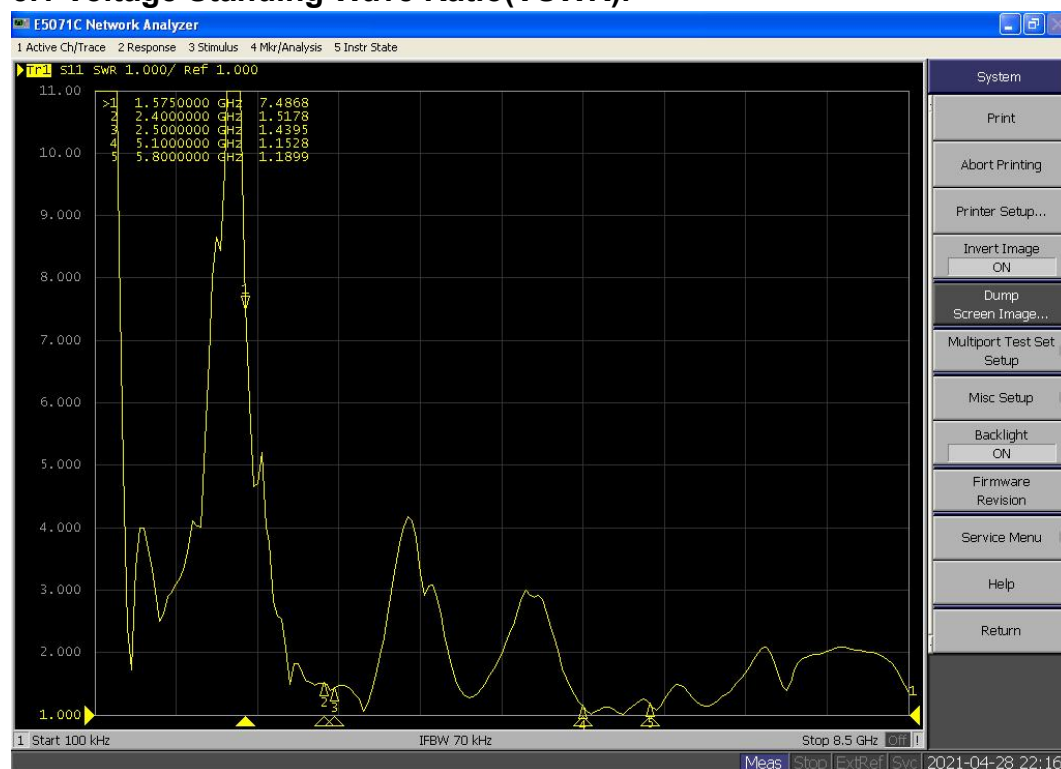


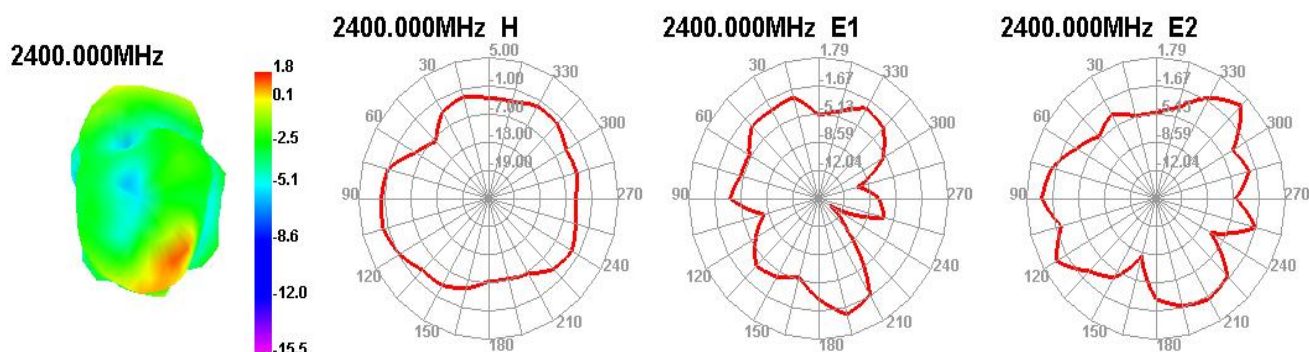
图 2 VSWR

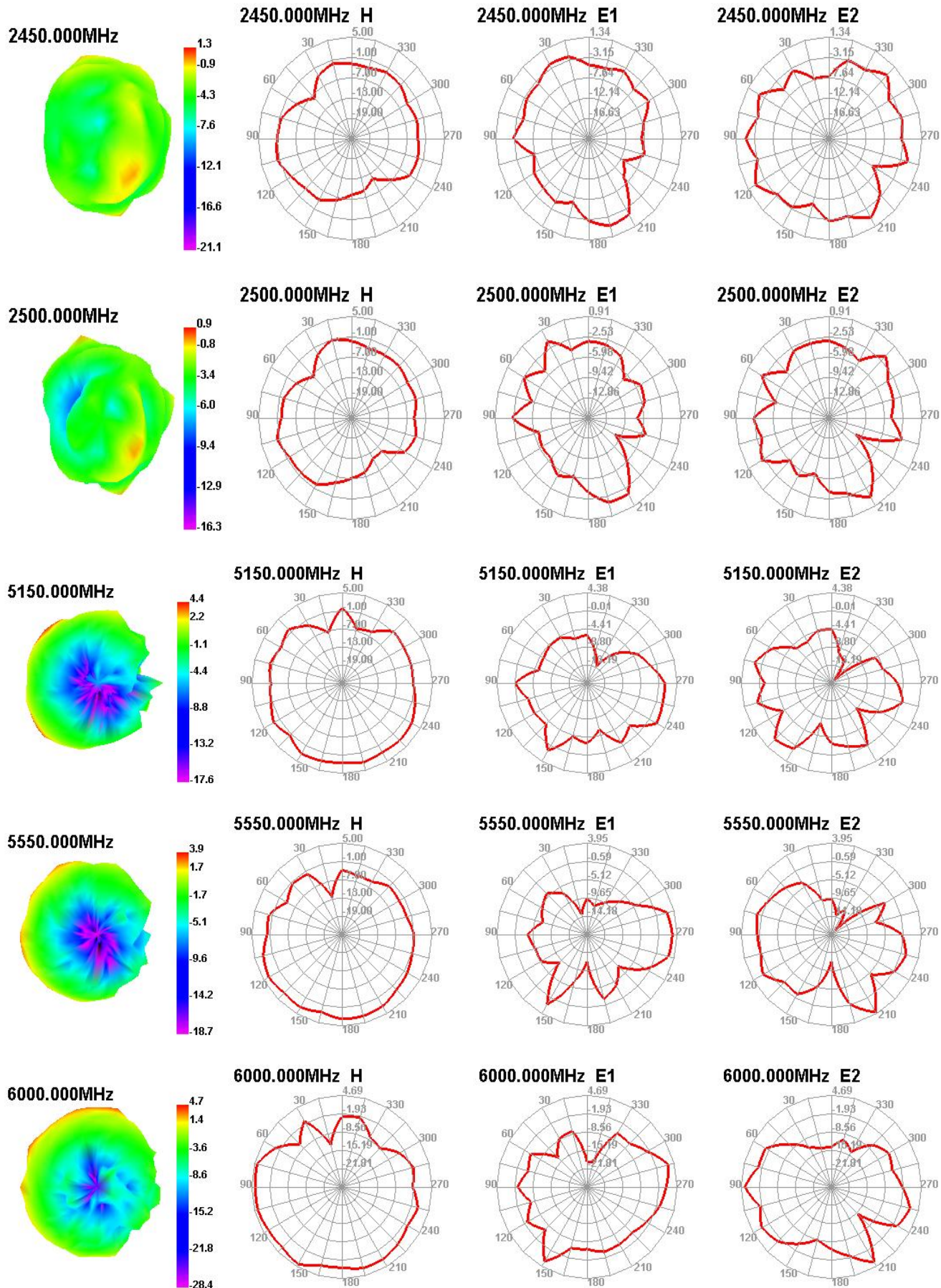
5.2 Efficient and gain(estimating conducted by Lejin in Jan,2021,using 3D drawing document that provided by Crealty.)

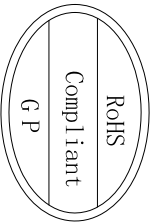
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	58.62	51.84	56.47	55.07	54.54	53.06	51.80	52.38	53.21	52.77	50.64
	Gain(dBi)	1.96	1.87	1.74	1.67	1.94	1.40	1.72	1.89	1.90	1.37	0.96

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test WIFI 5G	Effi(%)	53.64	53.19	50.30	52.06	54.00	51.62	51.36	53.09	52.82	51.62	51.30	51.70	52.90	52.86	50.46
	Gain(dBi)	4.09	3.75	3.52	3.85	3.95	3.18	3.75	3.82	3.83	3.62	3.55	3.90	4.09	4.55	4.46

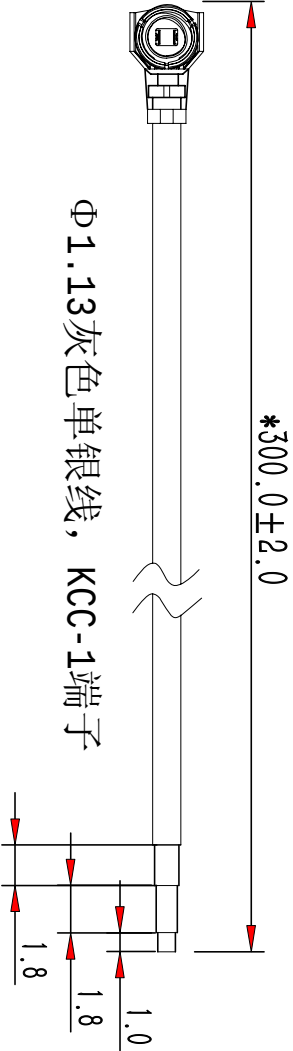
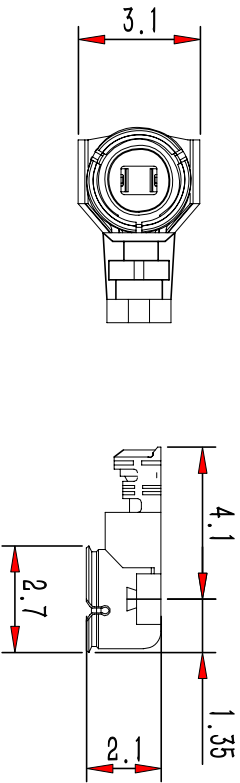
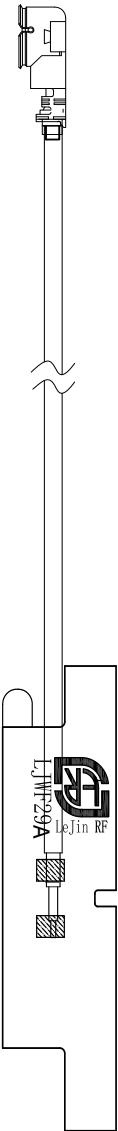
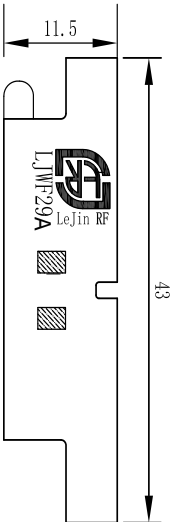
5.3 Radiation pattern.







背胶手撕位



Φ1.13灰色单银线，KCC-1端子

Remark:

- 1.FPC material:Electrolytic copper.
- 2.Backing in behind:3M300LSE.
- 3.Tolerance: Cutting die:±0.1mm;Circuit on FPC:±0.05mm； others are ±0.05mm.
- 4.ROHS:(Pb,Hg,Cr+6,PBBs,PBDEs),<1000ppm; Cd,<100ppm.

 SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

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D				Third Angle		Project		Creativity 3D		Date		2018-08-09											
		0~10		±0.05		○		0.02		Part Name		2.4G ANT											
		10~18		±0.10		◎		Ø0.03		Part No.													
A		New drawing						0.02				Checked by											
		18~30		±0.12		⊥		0.04		Material		RF											
		30~40		±0.15				0.04				Approved by											
Rev		Description		Date		Remark		Location		Treatment		Unit		mm		Scale		FIT		Rev		A	
1		2		3		4		5		6		7		8									