SPECIFICATIONS FOR APPROVAL

Customer Name:_	SHENZHEN EI	LECTRON 1	TECHNOLOGY CO.,LTD							
Product Name: _		WIFI Antenna								
Product Model:										
Part Number:										
Write By :		Huxuwen								
Issued Date:		2022-0	6-16							
		LULL O								
CUSTOMER										
ENGINEER R&D DEPT	BUSSINE	ESS DEPT	APPROVAL							
LEJIN										
R&D DEPT	ENGINE	ER DEPT	APPROVAL							
REV MODIFIEI	DESCRIPTION	DATE	REMARK							
V1.0 Initial Draft Relea	ise	2022/06/16								

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3. Product Specification

A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz					
	5150MHz ~5850 MHz					
VSWR	<2.0					
Efficiency	≥40%					
Impedance	50Ohm					
Polarization	Linear					
Gain	2.12dBi@2.4G 2.48dBi@5G					
B. Material & Mechanical Characteristic	es					
Material of Radiator	FPC(Yellow),LJWF84A					
Cable Type	Φ1.13mm,L250mm,Black					
Connector Type	IPX1					
Dimension	26.0*21.5mm					
C. Environmental						
Operation Temperature	- 20 °C ~ + 70 °C					
Storage Temperature	- 30 °C ~ + 85 °C					
Humidity	40%~95%					

4. 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

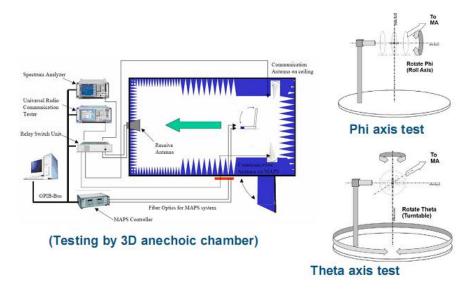


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

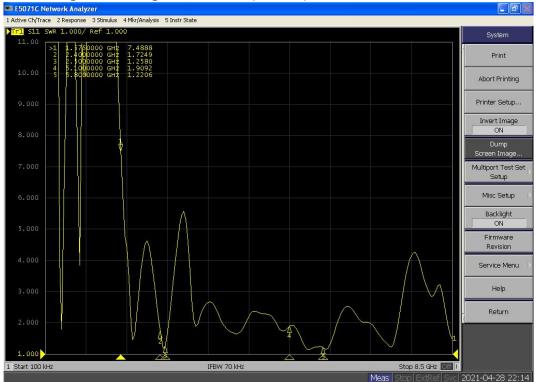


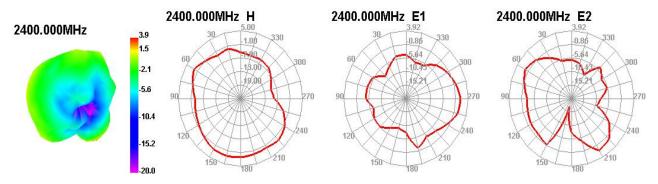
Chart 2 VSWR

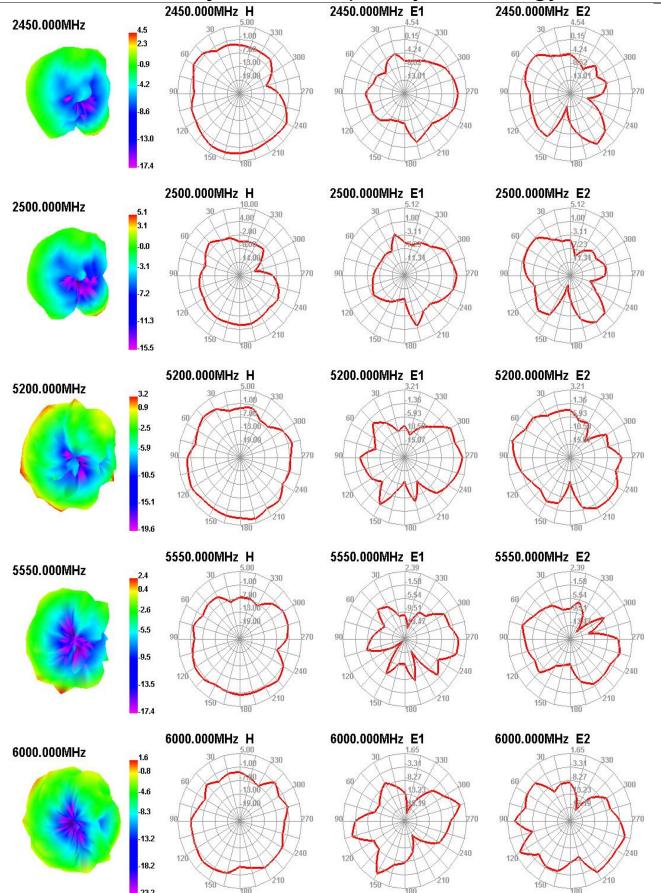
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	45.36	53.93	49.88	53.84	55.19	56.43	57.99	58.53	56.15	54.57	49.56
2.4G	Gain(dBi)	1.91	2.01	1.89	1.92	2.09	1.93	2.11	2.12	2.04	1.96	1.94

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	49.85	58.82	55.75	56.35	58.98	57.08	59.78	63.08	59.82	55.80	58.04	59.69	57.35	51.12	52.36
5G	Gain(dBi)	2.37	2.46	2.42	2.46	2.46	2.40	2.34	2.24	2.41	2.48	2.46	2.47	2.35	2.32	2.43

5.3 Radiation pattern.





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6.Reliability Test

	Test Item	Test condition	Equipment	Specification		Result
		Temperature: -30°C, Time:48hrs	No m	aterial		
	Low Temp.	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	n is	PASS
1	Storage	Temperature Chamber, keep the temp is $25^\circ\!$;	allowed.		
1	Test	65% for one hour, then step-down the temp. to -30 $^\circ \! \mathbb{C}$ in one	Tester	Electronic		I ASS
	rest	hour, store antenna for44 hours; step-up temp to 25 $^\circ \! \mathbb{C}$,test	rester	Performanc	e is	
		antenna after 2 hours.		ok .		
		Temperature: 85℃ Humidity: 85% RH Time:48hrs		No m	aterial	
	High	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	n is	
	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	:	allowed.		
	Humid	65% for one hour, then step-up the temp. to $80^\circ\!\mathrm{C}$ and the	l. Tastan	Electronic		PASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	Tester	Performano	e is	
		step-down tempto $25^\circ\!\mathrm{C}$,test antenna after 2 hours.		ok .		
	Calt Camore 6	Placing antenna in the Salt-Spray Tester ,set the test	Calt Camors	No color cl	nange	
3	Salt-Spray 6	condition ,Temp: $35\!\pm\!2^\circ\!$	Salt-Spray	No a	appear	PASS
	pray Test	\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting		

7. Assemble type

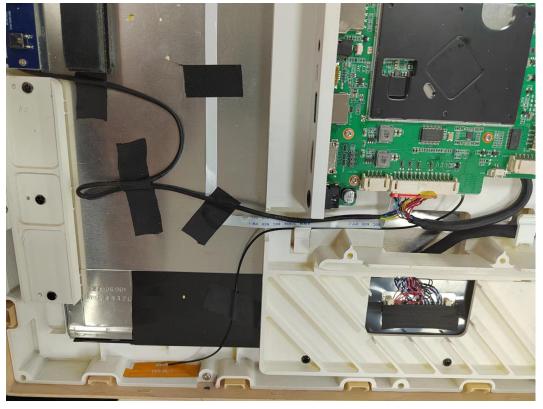


Chart 3 WF2758 assemble type

8.Product Drawing

