SPECIFICATIONS FOR APPROVAL

Custor	ner Name: SHE	ENZHEN EL	ECTRON T	ECHN	IOLOGY CO.,LTD					
Produc	ct Name:	WIFI Antenna								
Produc	ct Model:	103								
Part N	umber:	LJF02-22121308-R0A								
Write E	Зу:		Huxuwen							
Issued	Date:	2023-02-17								
CUST	OMER									
ENG	NEER R&D DEPT	BUSSINE	SS DEPT		APPROVAL					
LEJIN										
	R&D DEPT	ENGINE	ER DEPT		APPROVAL					
REV	MODIFIED DES	CRIPTION	DATE		REMARK					
V1.0	Initial Draft Release		2023/02/17							
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3. Product Specification

A. Electrical Characteristics								
Frequency	2400MHz ~2500 MHz							
VSWR	<2.0							
Efficiency	≥40%							
Impedance	50Ohm							
Polarization	Linear							
Gain(2.4GHz)	≤2.0dB							
B. Material & Mechanical Characteristic	es							
Material of Radiator	FPC(Black),LJWF29A							
Cable Type	Φ1.13mm,L650mm,Black							
Connector Type	IPX1							
Dimension	43.0*11.5mm							
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

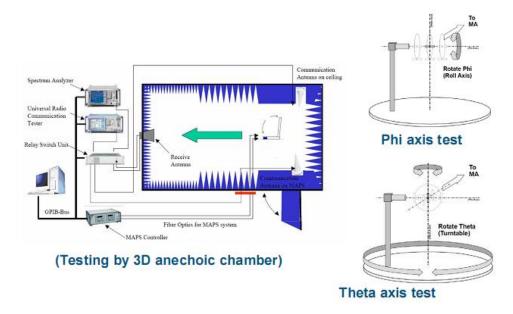


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

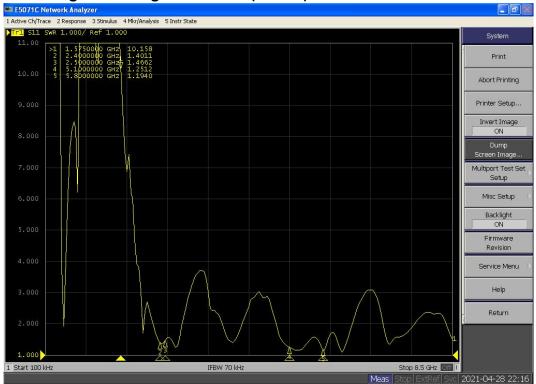


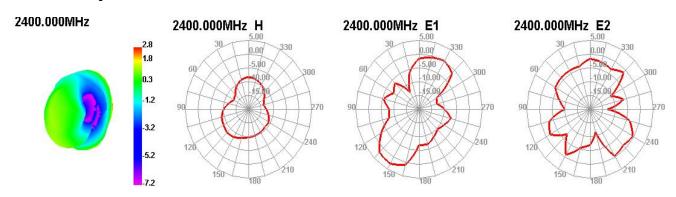
Chart 2 VSWR

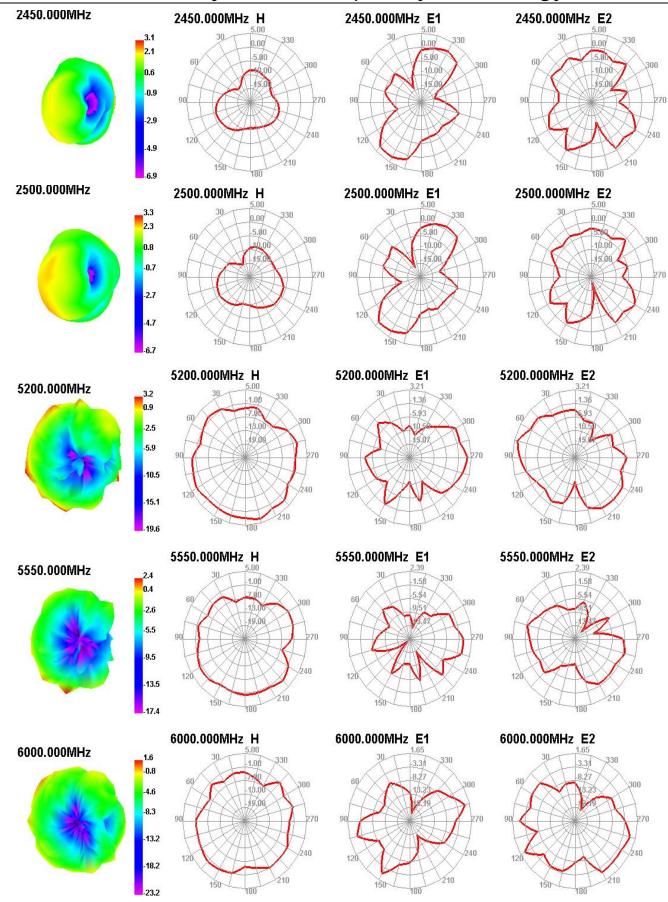
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	42.92	48.42	45.89	49.73	45.98	49.52	47.16	50.01	43.90	43.55	41.54
2.4G	Gain(dBi)	1.92	2.00	2.05	2.16	2.13	2.27	2.03	2.15	2.25	2.14	1.88

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	51.22	53.19	50.84	54.64	52.43	54.77	57.28	52.72	54.71	50.55	55.99	51.51	53.22	57.32	51.92
WIFI 5G	Gain(dBi)	2.11	2.25	2.19	2.24	2.22	2.15	2.24	2.18	2.12	2.28	2.23	2.15	2.24	2.21	2.15

5.3 Radiation pattern.





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6.Reliability Test

	Test Item	Test condition	Equipment	Specific	Specification	
		Temperature: -30°C, Time:48hrs	No 1	naterial		
	Low Tomp	Test condition: Placing antenna in a Low/High	Toma & Uum	deformati	on is	
1	Low Temp. Storage	Temperature Chamber, keep the temp is 25 °C and humidity is	Temp.&Hum	allowed.		PASS
1	Test	65% for one hour, then step-down the temp. to $-30^\circ\mathrm{C}$ $$ in one	Tester	Electronic		rass
	Test	hour, store antenna for44 hours; step-up temp to 25 $^\circ \! \mathbb{C}$,test	rester	Performar	nce is	
		antenna after 2 hours.		ok .		
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No 1	naterial	
	High	Test condition: Placing antenna in a Low/High	Гетр.&Hum	deformati	on is	
,	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	:	allowed.		PASS
	Humid	65% for one hour, then step-up the temp. to $80^\circ\!\mathrm{C}$ and the	r. Tester	Electronic		rass
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	rester	Performar	nce is	
		step-down tempto 25°C,test antenna after 2 hours.		ok .		
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	Calt Camor	No color (change	
3		condition ,Temp: $35{\pm}2$ °C Humidity: 85% NaCl salt spray :5	Salt-Spray	No	appear	PASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting		

7.Assemble type(omit)

8.Product Drawing

