SPECIFICATIONS FOR APPROVAL

Custo	mer Name: SH	ENZHEN EL	ECTRON T	ECHN	NOLOGY CO.,LTD					
Produ	ct Name:	WIFI Antenna								
Produ	ct Model:		NW32	293						
	umber:	l	_JF02-2206		R0A					
Write I	 By :	Huxuwen								
Issued	I Date:		2022-06	6-16						
	OMER									
ENG	INEER R&D DEPT	BUSSINE	SS DEPT		APPROVAL					
LEJIN	<u> </u>									
	R&D DEPT	ENGINE	ER DEPT		APPROVAL					
REV	MODIFIED DES	SCRIPTION	DATE		REMARK					
V1.0	Initial Draft Release		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(2.4GHz)	≤2.0dBi						
Gain(5.8GHz)	≤2.5dBi						
B. Material & Mechanical Characteristic	es						
Material of Radiator	FPC(White),LJWF51AA						
Cable Type	Φ1.13mm,L355mm,Black						
Connector Type	IPX1						
Dimension	40.0*18.0mm						
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

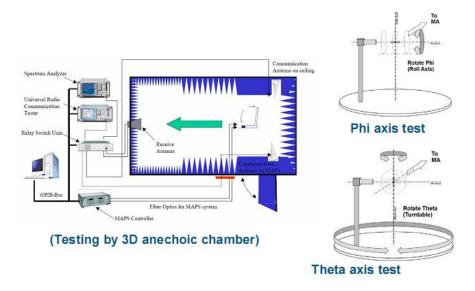


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

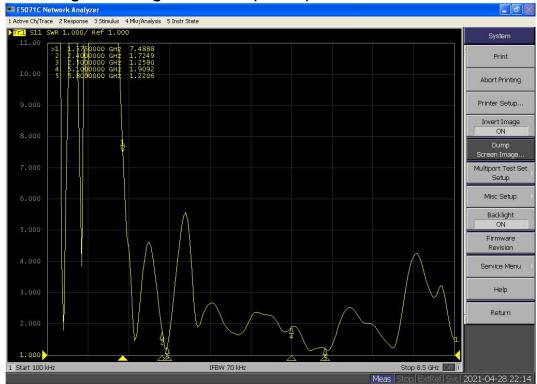


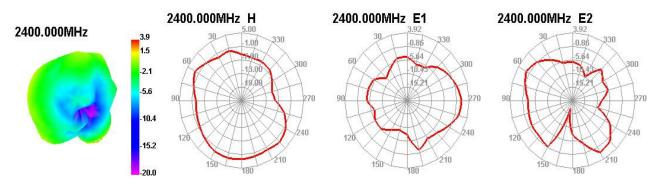
Chart 2 VSWR

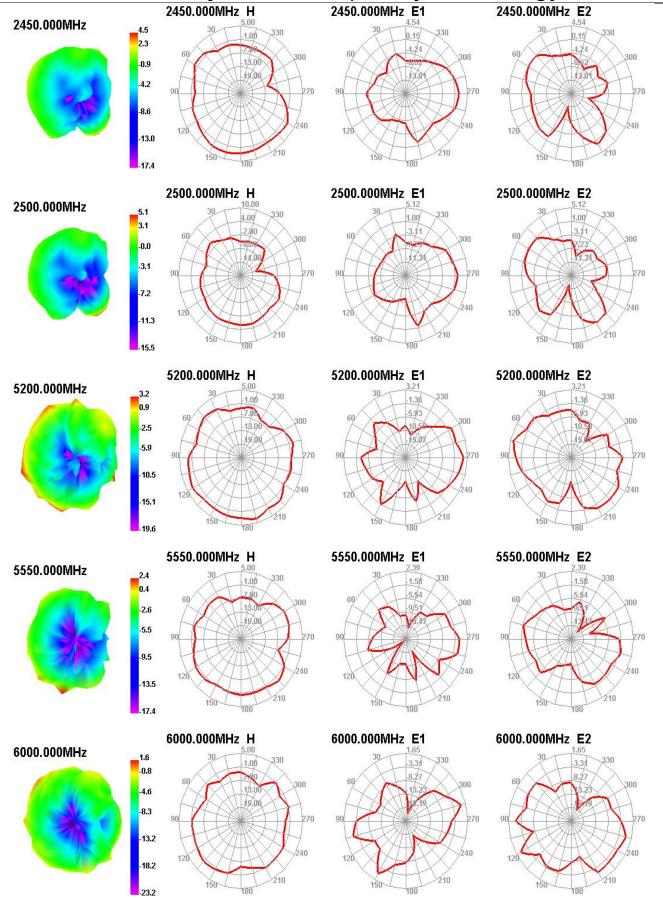
5.2 Efficient and gain.

Passive	Freq(MHz)											
Test For								45.86				
2.4G	Gain(dBi)	1.84	1.92	1.97	1.96	2.00	1.99	1.95	1.97	1.89	1.94	1.80

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	2.50	2.19	2.24	2.22	2.15	2.24	2.18	2.12	2.28	2.23	2.15	2.24	2.50	2.15

5.3 Radiation pattern.





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6.Reliability Test

	Test Item	Test condition	Equipment	Specifica	tion	Result
		Temperature: -30°C, Time:48hrs		No m	aterial	
	Low Temp. Storage Test	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	n is	PASS
1		Temperature Chamber, keep the temp is $25^\circ\!$;	allowed.		
1		65% for one hour, then step-down the temp. to -30 $^\circ \! \mathbb{C}$ in one	Tester	Electronic		
		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.		DAGG
	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	Performanc	e is	
		step-down tempto $25^\circ\!\mathrm{C}$,test antenna after 2 hours.		ok .		
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	Calt Camors	No color cl	nange	
3		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

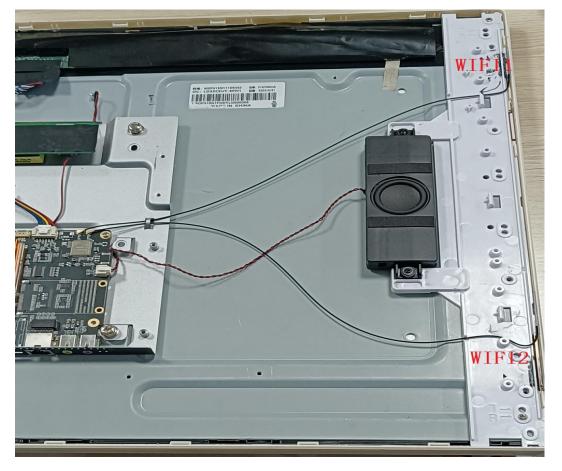


Chart 3 NW3295 assemble type







Chart 4 NW3295 WIFI1 assemble type

Chart 5 NW3295 WIFI2 assemble type

8.Product Drawing

