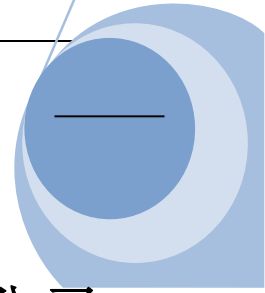


深圳市泓德致新科技有限公司

-----无线终端天线方案解决商和供应

商



深圳市泓德致新科技有限公司

Shenzhen Hongdezhixin Technology Co., LTD

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Antenna Test Report

Client Name: Copper Tube Antenna

Project Name:

Report Date: 2026.1.08

商

Client Project Basic Information_____

No.		Project Configuration Information				
1	Operating Frequency (MHz)	WIFI	2.4G			
2	Device Type	Remote-controlled car				
3	Antenna Type	Copper Tube Antenna				
4	Antenna Feed Point Configuration	Cable Length: 150mm				
5	Antenna Configuration	Antenna Type				

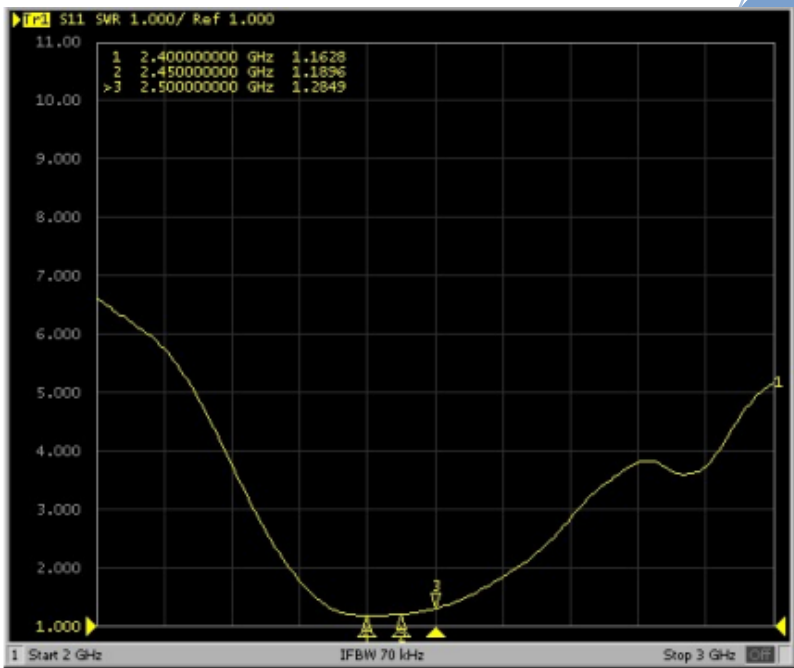


Antenna Design and Test Report

1. Technical Specifications and Test Equipment

Product Electrical Performance Specifications	
Operating Frequency Range	2400 ~ 2480MHz
VSWR	2400~ 2480MHz: < 1.5
Antenna Gain	2400 ~ 2480MHz: +3 dBi $\pm$ 0.5dBi
Radiation Efficiency	2496 ~ 2690MHz: >60 %
Impedance	50 ohm
Product Material Specifications	
Copper Tube	Electrolytic Copper + PI
Product Environmental Specifications	
Operating Temperature	- 30°C ~ + 85 °C
Storage Temperature	- 30°C ~ + 85 °C

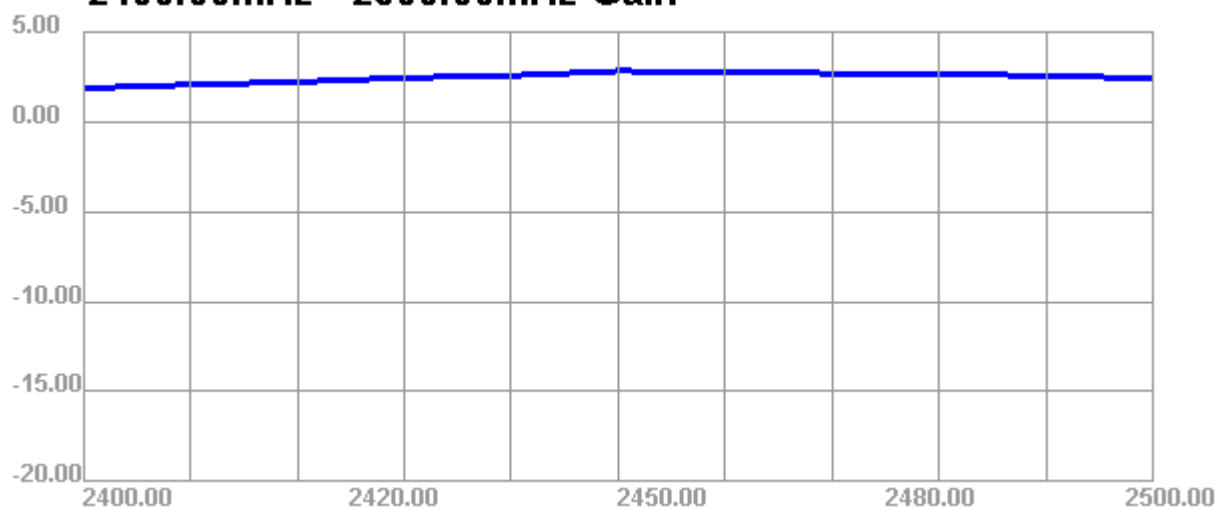
商



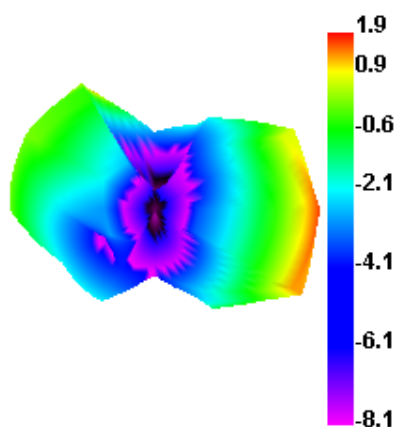
电压驻波比（VSWR）

Passive Test For WIFI2.4									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivityB (dBi)
2400	47.24	-3.26	1.94	0.29	21.703	25.534	2.44	-16.01	5.7
2410	48.64	-3.13	2.22	0.41	22.212	26.431	2.56	-16.73	5.69
2420	47.02	-3.28	2.21	0.06	21.146	24.574	2.21	-15.55	5.6
2430	47.24	-3.26	2.44	0.29	21.703	25.534	2.44	-16.01	5.7
2440	48.64	-3.13	2.56	0.41	22.212	26.431	2.56	-16.73	5.69
2450	51.35	-2.89	2.82	0.67	23.386	27.963	2.82	-16.92	5.71
2460	51.47	-2.88	2.76	0.61	23.309	28.164	2.76	-16.75	5.64
2470	51.49	-2.88	2.69	0.54	23.3	28.194	2.69	-16.04	5.57
2480	50.82	-2.94	2.69	0.54	23.835	28.984	2.69	-15.24	5.46
2490	51.19	-2.91	2.53	0.38	24.579	29.615	2.53	-14.72	5.19
2500	51.2	-2.91	2.43	0.28	24.124	29.078	2.43	-14.64	5.17

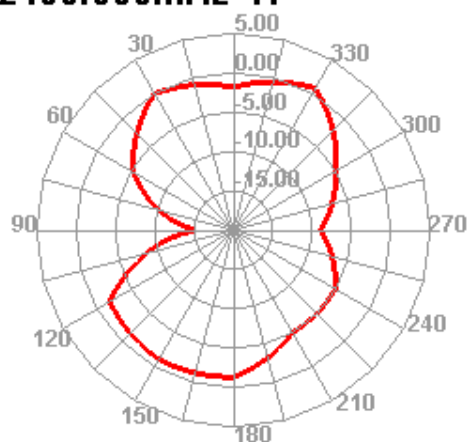
2400.00MHz - 2500.00MHz Gain



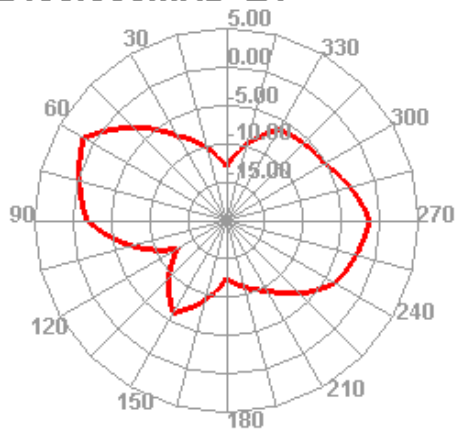
2400.000MHz



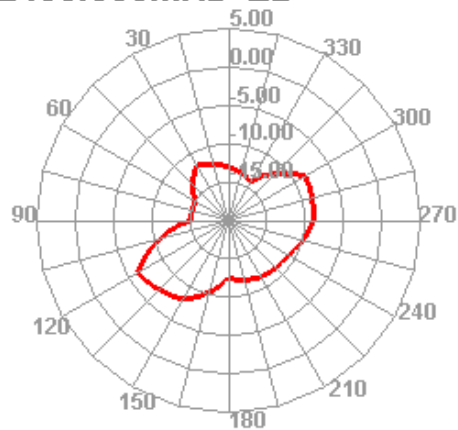
2400.000MHz H



2400.000MHz E1

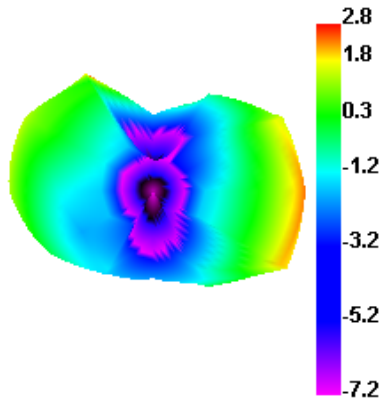


2400.000MHz E2

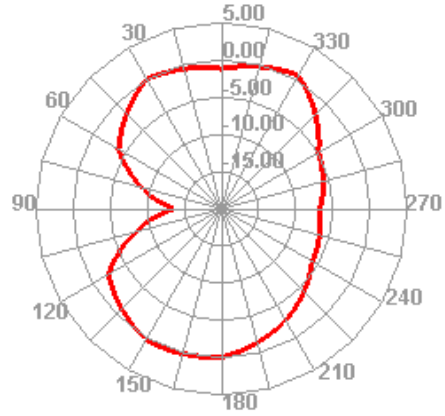


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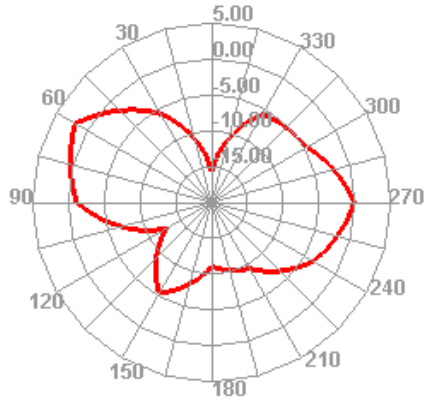
2450.000MHz



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

