



深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线规格

Antenna specification

TC: 长城

MN: W15118GP

RF: 戴进平

MD: 黄清清

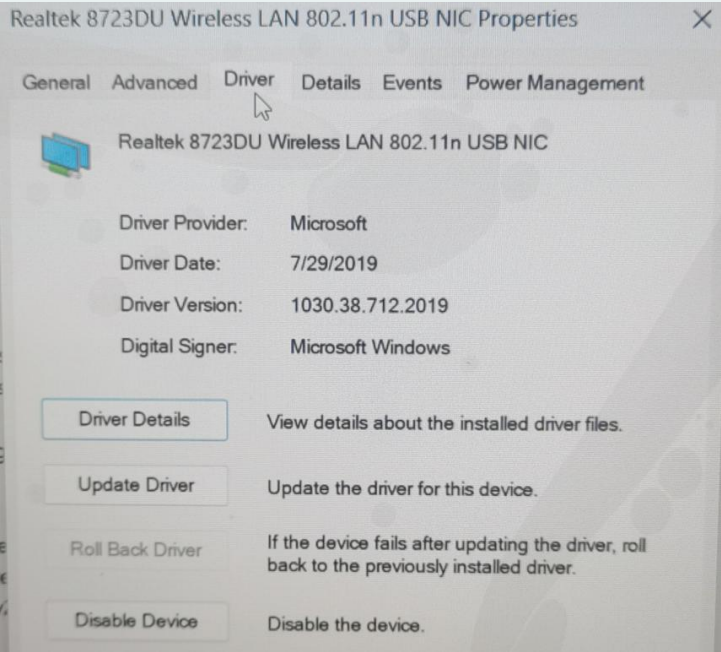
MP: 19918388579

Date: 2024. 02. 20

REV :V1. 0

测试信息

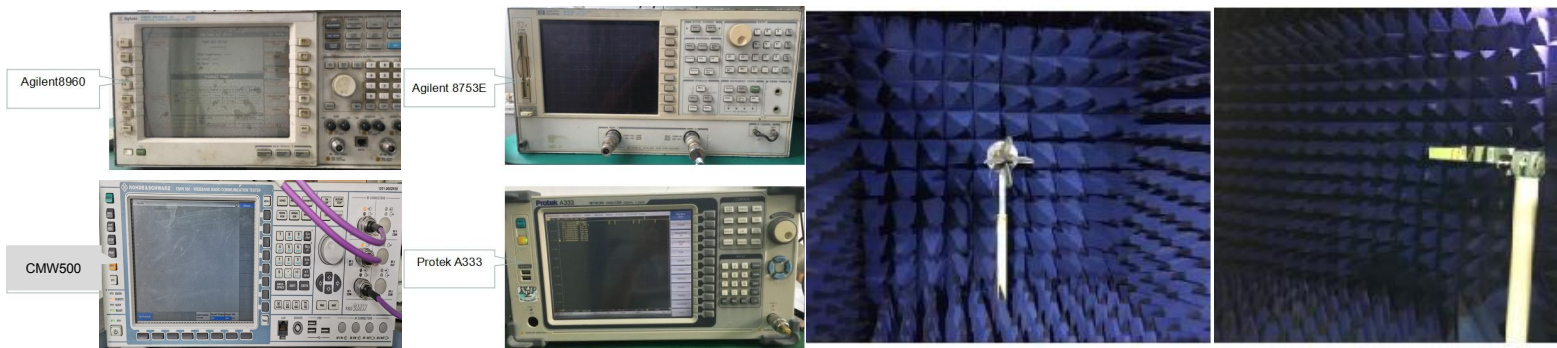
Test information

WIFI ANT Test information		
Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

测试环境

Test environment

	测试项目	测试设备
S参数 (S-parameter)	1. 电压驻波比 (VSWR) 2. 回波损耗 (Rrtun Loss)	网络分析仪: Agilent8753ES
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 屏灭/屏亮	1. 暗室: 5*3*3m (3D) Chamber 2. 综测仪: Agilent8960 CMW500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 5*3*3m (3D) Chamber 2. 网络分析仪: Agilent 8753ES



天线位置 Antenna position



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有源测试数据 Active test data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	13.35	CH1 11Mbps	-82.21
2437	CH6 11Mbps	14.41	CH6 11Mbps	-82.91	
2467	CH11 11Mbps	13.28	CH11 11Mbps	-82.32	
802.11a		TRP		TIS	
	5180	CH36 6Mbps		CH36 54Mbps	
	5300	CH60 6Mbps		CH60 54Mbps	
	5805	CH161 6Mbps		CH161 54Mbps	

吞吐量测试 Throughput test

2.4G wifi 吞吐量测试			
上行	77.7M	下行	77.6M
图片		图片	
备注	以上为WIFI5路由器下测试数据		

环境处理

Environmental treatment

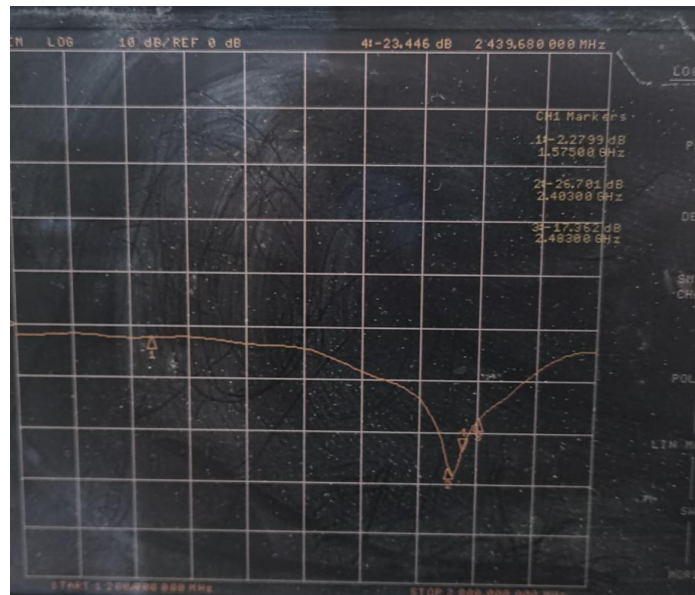
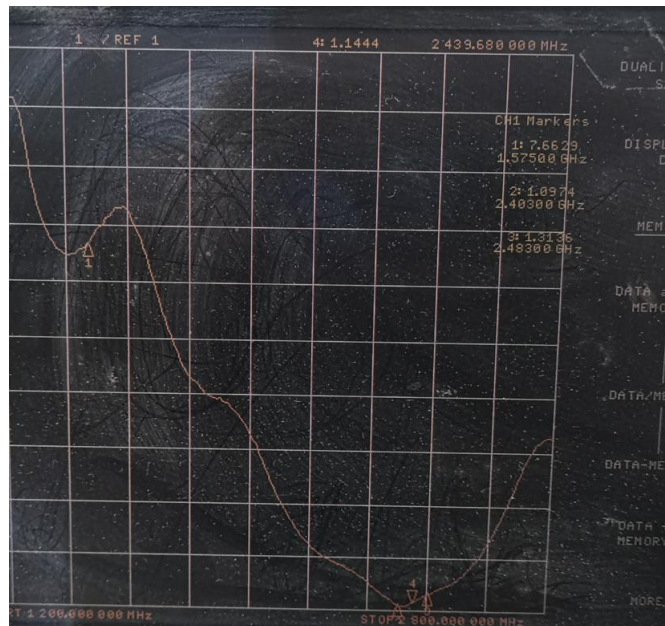




ANTENNA

无源测试数据
Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2483	5150	5500	5850
VSWR	1.09	1.14	1.31			
Return Loss (DB)	-20.70	-23.44	-17.36			



无源测试数据

Passive test data

ANT1 GAIN&Efficiency-WIFI2.4G/BT

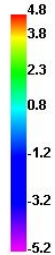
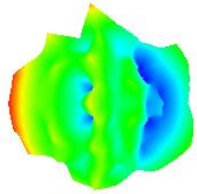
Passive Test For 2.4G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	58.21	-2.35	4.84	2.69	34.05	24.165	4.84	-20.92
2410	51.32	-2.9	4.19	2.04	30.252	21.07	4.19	-24.35
2420	53.65	-2.7	4.41	2.26	31.815	21.835	4.41	-28.93
2430	53.14	-2.75	4.34	2.19	31.586	21.553	4.34	-32.25
2440	53.82	-2.69	4.53	2.38	32.128	21.696	4.53	-36.47
2450	53.37	-2.73	4.46	2.31	31.804	21.567	4.46	-30.61
2460	50.08	-3	4.37	2.22	29.917	20.167	4.37	-25.44
2470	50.3	-2.98	4.27	2.12	29.915	20.385	4.27	-23.18
2480	51.55	-2.88	4.53	2.38	30.635	20.911	4.53	-22.84
2490	49.1	-3.09	4.11	1.96	29.027	20.072	4.11	-22.77
2500	48.13	-3.18	4.05	1.9	28.5	19.626	4.05	-22.31



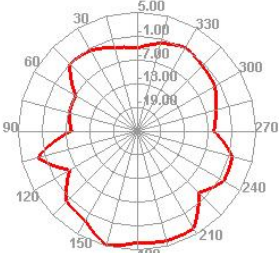
无源测试数据 Passive test data

ANT1 Direction of figure (2.4/BT)

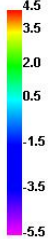
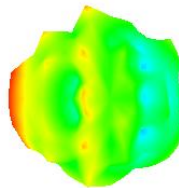
2400.000MHz



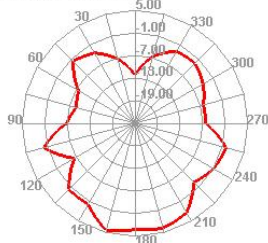
2400.000MHz H



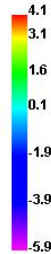
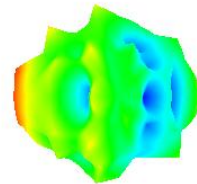
2450.000MHz



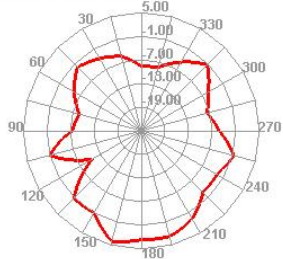
2450.000MHz H



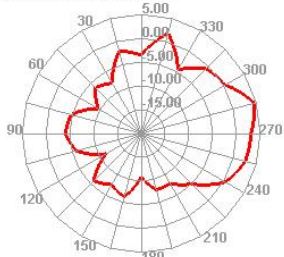
2500.000MHz



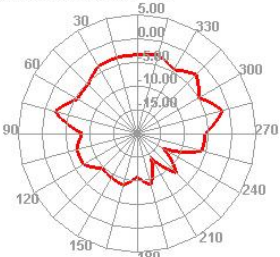
2500.000MHz H



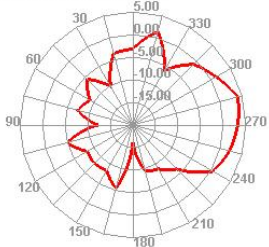
2400.000MHz E1



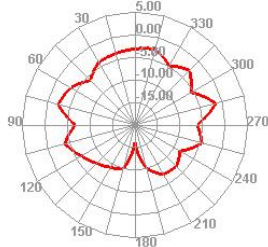
2400.000MHz E2



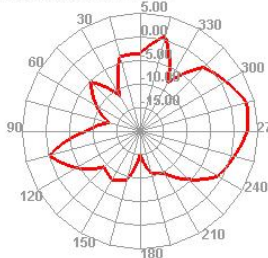
2450.000MHz E1



2450.000MHz E2



2500.000MHz E1



2500.000MHz E2

