



深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线测试报告

Antenna Test Report

TC: 领拓

MN: L-S1

RF: 蔡林满

MD: 黄清清

MP: 19918388579

Manufacturer: shenzhen Berlin Electronic Co., Ltd

Address: 2nd Floor, Building B, No. 10, East District, Shangxue Technology Industrial City,
Xinxue Community, Bantian Street, Longgang District, Shenzhen

Date: 2024. 7. 31.

REV :V1. 0



测试信息

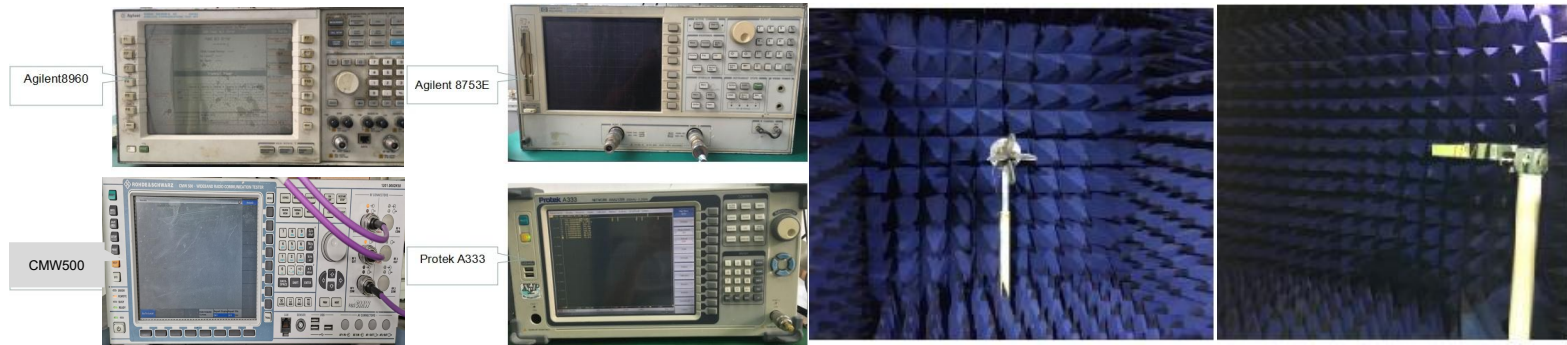
Test information

Antenna band		Antenna state	Antenna form	Match changes	Note
Main ANT	2G			NO	
	3G				
	4G				
AUX ANT	BT/WIFI	2.4G	FPC	PIFA	NO
	GPS		FPC	PIFA	NO
	DIV				NO

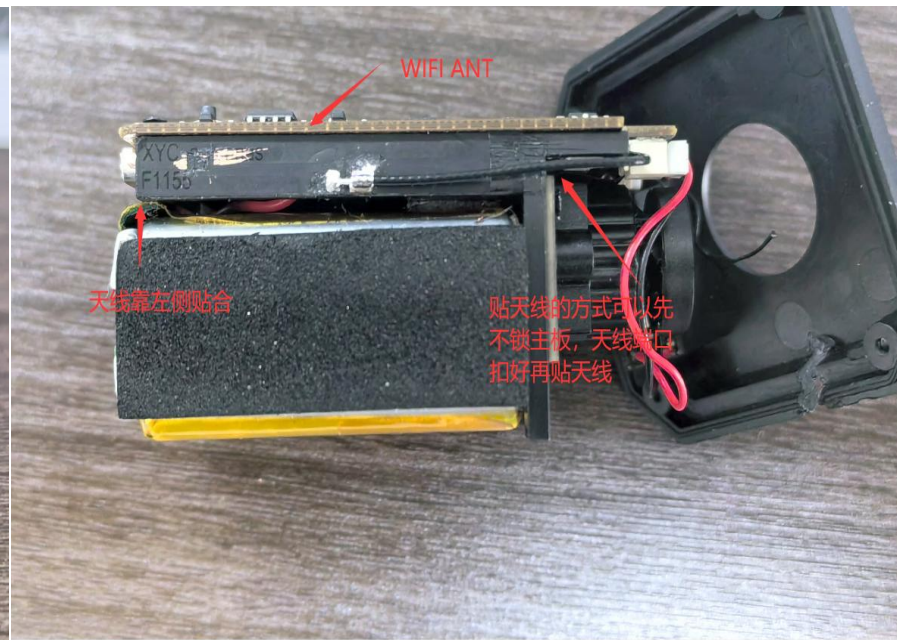
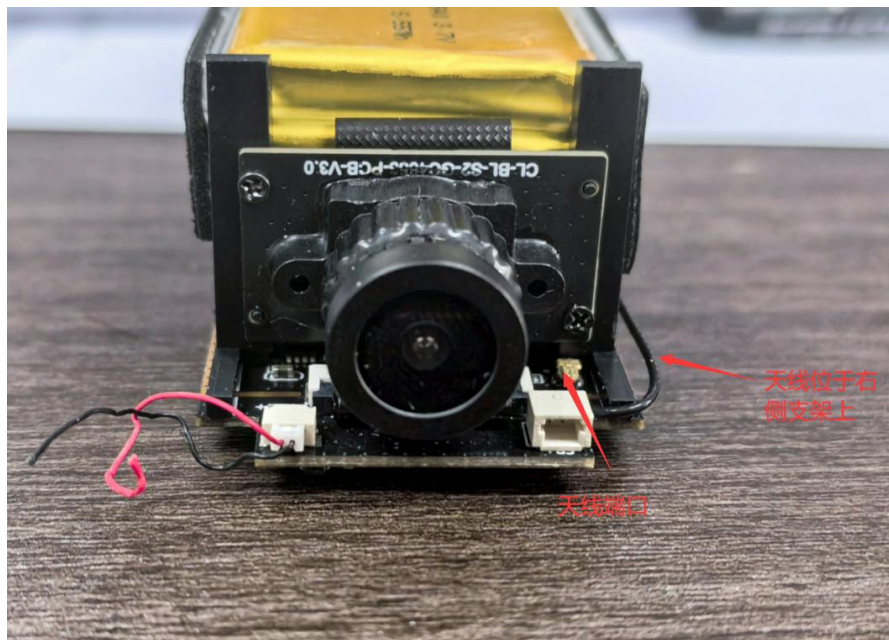
测试环境

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



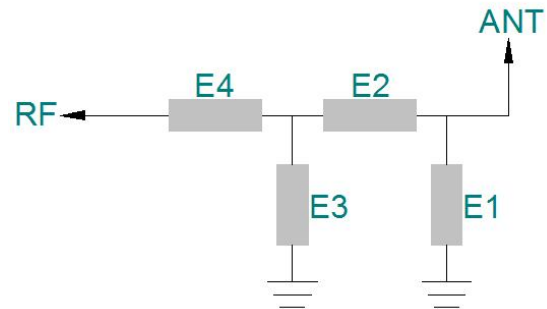


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匹配电路
Matching circuit



匹配电路原理图&位号图

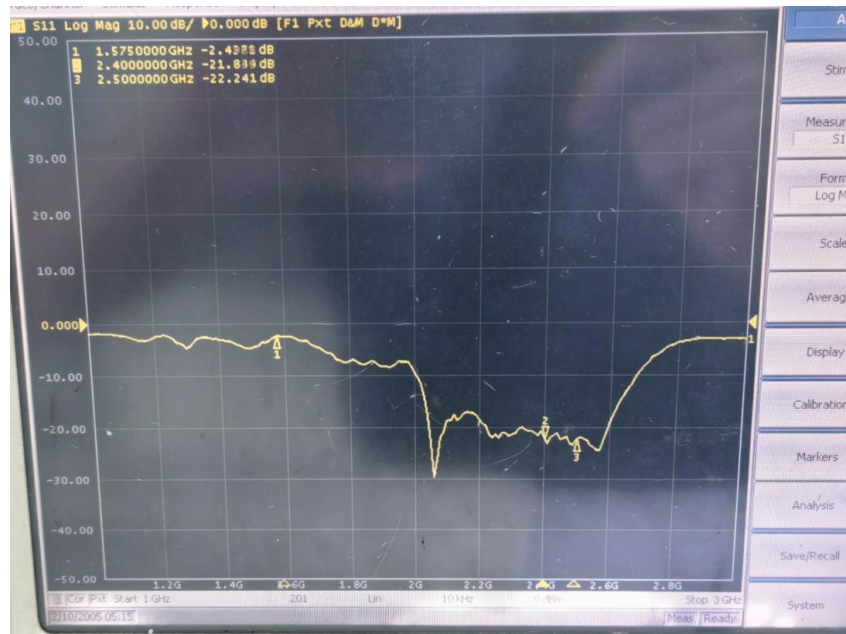
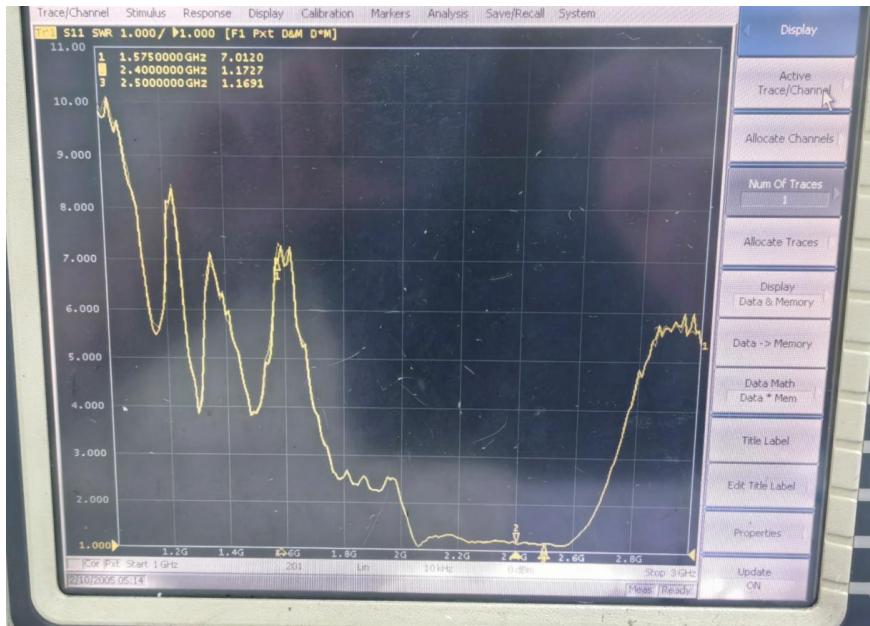
	电容 (PF)	电感 (NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		



无源测试数据

Passive test data

ANT1 S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500
VSWR	1.17	1.16
Return Loss (DB)	-21.93	-22.24



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无源测试数据

Passive test data

ANT1 GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	26.34	-5.79	-0.38	-2.53	7.259	19.085	-0.38	-18.42
2410	24.23	-6.16	-0.65	-2.8	6.523	17.704	-0.65	-19.07
2420	23.69	-6.25	-0.68	-2.83	6.449	17.241	-0.68	-20.12
2430	22.78	-6.42	-0.78	-2.93	6.251	16.528	-0.78	-20.89
2440	25.28	-5.97	-0.28	-2.43	6.998	18.284	-0.28	-18.91
2450	23.8	-6.23	-0.47	-2.62	6.66	17.144	-0.47	-17.08
2460	21.01	-6.77	-1.08	-3.23	5.991	15.023	-1.08	-17.35
2470	22.24	-6.53	-0.87	-3.02	6.423	15.813	-0.87	-17.66
2480	22.57	-6.47	-0.73	-2.88	6.586	15.982	-0.73	-17.87
2490	22.4	-6.5	-0.62	-2.77	6.503	15.897	-0.62	-17.8
2500	18.27	-7.38	-1.35	-3.5	5.24	13.029	-1.35	-17.62



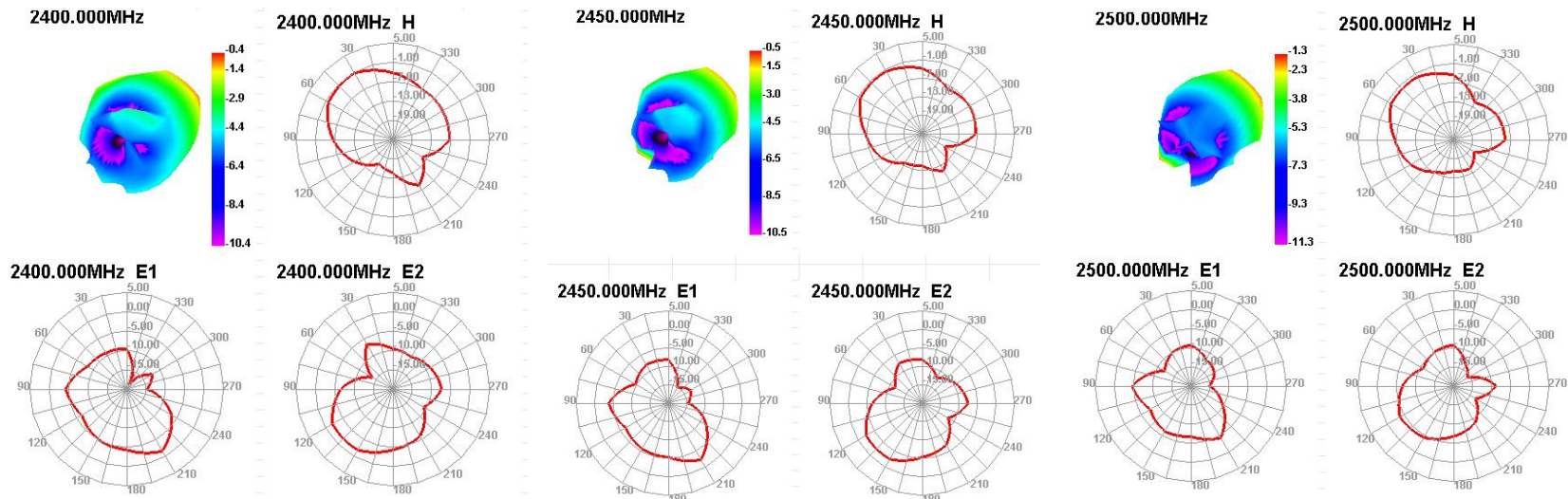
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无源测试数据
Passive test data

ANT1 Direction of figure(2.4/BT)



合作共赢

