

Antenna Test Report

For

Project G912

Version:

Customer	金文华 Jinwenhua	Project	G912
Band	BT	Color	
Issued by	WWL	Checked by	
Confirmed by		Date	2026.09.12

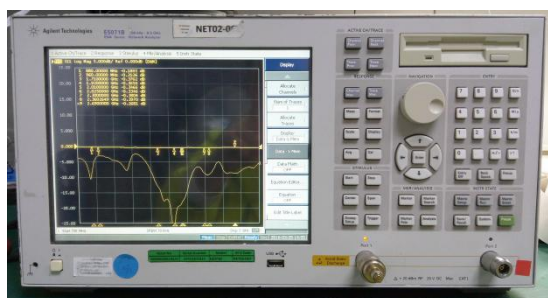
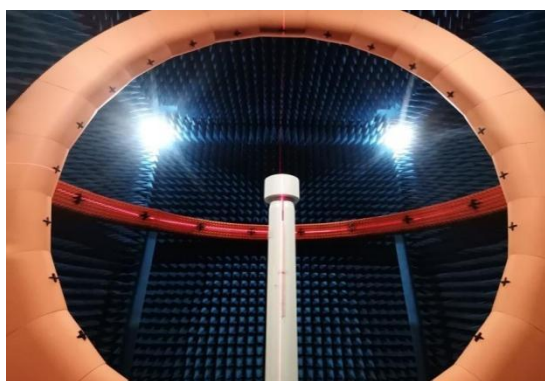
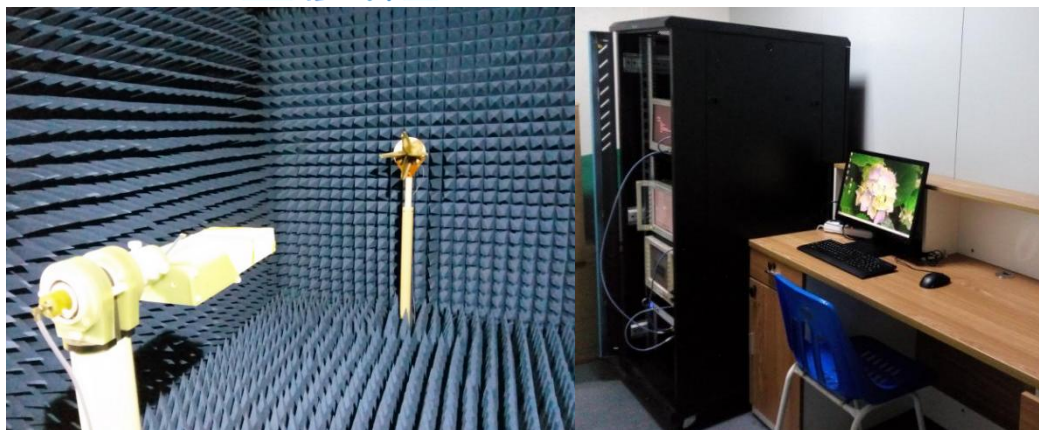
Manufacturer: Dongguan Jinwenhua Digital Technology Co., Ltd.

Address: No.1 Huada Road, Longbeiling Industry Zone,Tangxia Town, Dongguan City, China 523700

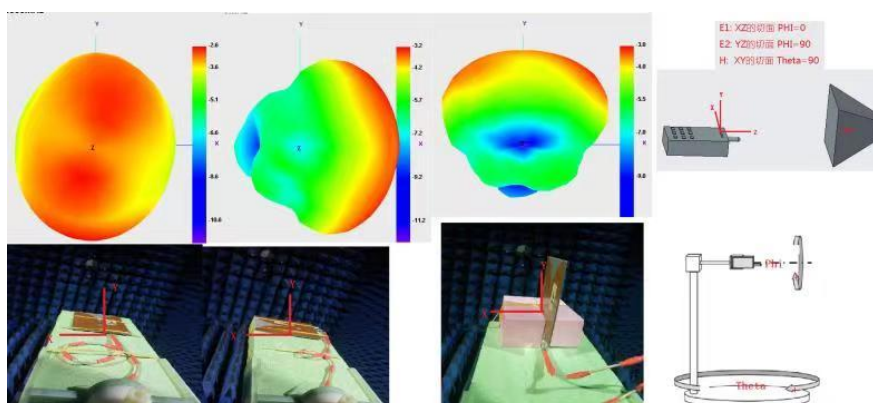
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一. Test Instrumentation and item(测试设备及项目)

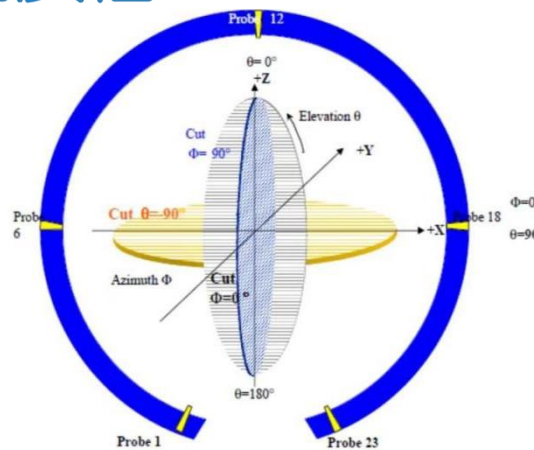
类别 (Class)	测试项目 (Test item)	设备 (Equipment)
1. S parameter	1. 回波损耗(RL) 2. 驻波比 (VSWR) 3.斯密斯原图(Smith chart)	网分 (VNA) : Agilent E5071B R&S ZVB8 Protek A333
2. 耦合测试 (Coupling testing)	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1.2G/3G Tester: Agilent 8960 2.The coupling box: TESCO TC-5060A 3. 3D Chamber: ETS 3D Chamber (5x3x3)
3. 3D 无源测试 (Passive Test)	1. 效率 (Effeciency) 2. 增益 (Gain) 3.辐射方向图 (radiation pattern)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. 网分 (VNA) : Agilent E5071B R&S ZVB8
4.3D 有源测试 (Active Test)	1. 3D 功率 (TRP) 2. 3D 灵敏度 (TIS) 3.吞吐率 (Throughput rate)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2.2G/3G Tester: Agilent 8960 3.4G Tester: MT8820C/CMW500 4.WIFI/BT/NB-iot Tester: CMW500 5. 5G Tester: SP9500-CTS 6.Head: HEAD-P10 (FACE-P10)



二. Chamber coordinate axis (暗室坐标)



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三. Definitions (定义)

VSWR: Voltage Standing Wave Rate

RL: Return loss

TRP: total radiated power

TIS: total isotropic sensitivity

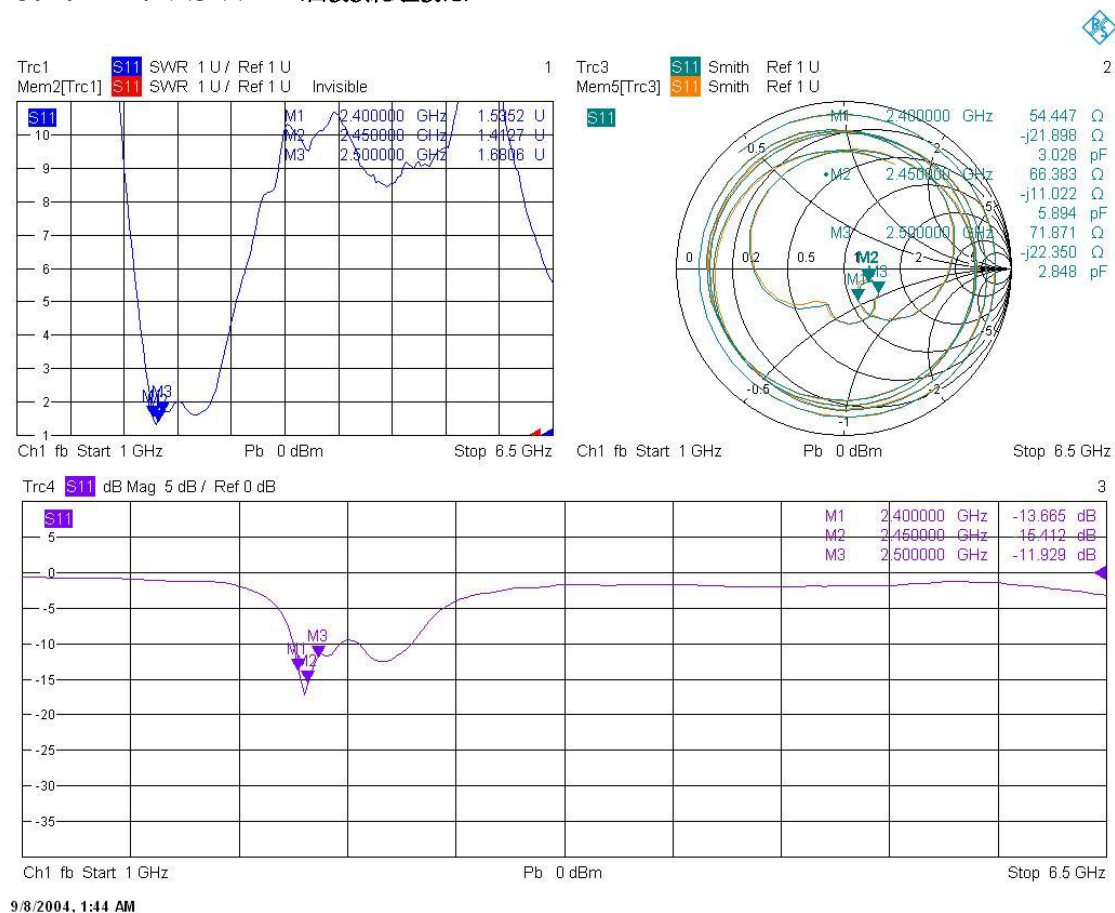
四. Cell-Phone Photo and Dealing Method (手机图片及环境处理)

五. Matching Circuit Description (匹配描述)

原版匹配

六. Passive Test (无源测试)

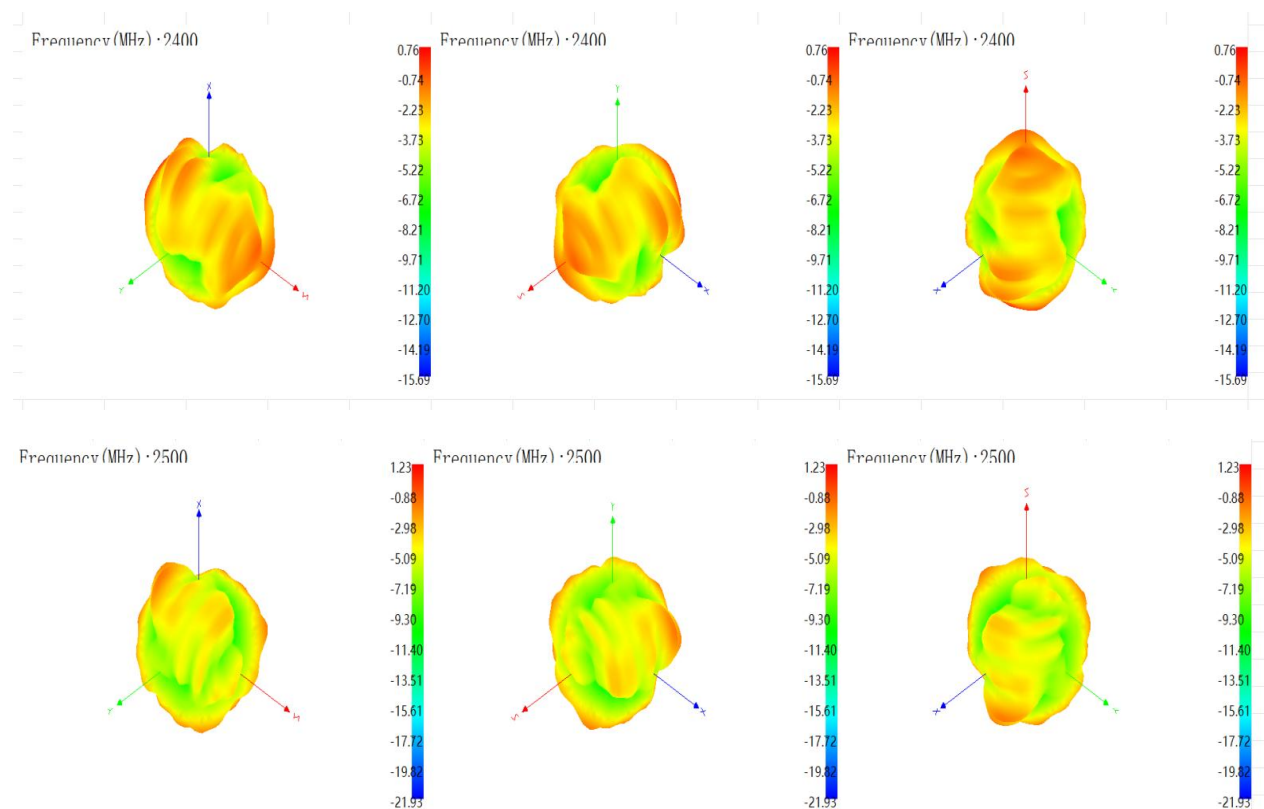
6.1. RL/VSWR (回波损耗/驻波比)



6.2.增益及效率(Gain and efficiency)

Frequency	Gain(dBi)	Efficiency	Efficiency(%) (效率%)
2400	0.76	-4.23	37.76
2410	1.18	-4.11	38.82
2420	1.62	-3.87	41.02
2430	1.74	-3.69	42.76
2440	1.61	-3.7	42.66
2450	1.62	-3.73	42.36
2460	1.72	-3.82	41.5
2470	1.77	-3.91	40.64
2480	1.76	-4.01	39.72
2490	1.45	-4.18	38.19
2500	1.23	-4.3	37.15

6.3.天线方向图（3D 图）



七. TRP&TIS

NQI ANT TRP&TIS parameter Summary of G912				
	Test	Bluetooth TRP		
	Result	0	39	78
头模 head phantom	TRP (dBm)	6.19	6.13	5.06
	TIS (dBm)	-91.08	-92.02	-90.94
	Test	Bluetooth TRP		
	Result	0	39	78
自由 Free space	TRP (dBm)	6.67	6.49	5.42
	TIS (dBm)	-92.37	-93.31	-91.65

主板传导

	Channel	功率 Power	灵敏度 Sensitivity
	CH 0	11.43	-95
	CH39	11.25	-96.9
	CH78	10.95	-95.9

八. 天线尺寸 (2D 尺寸) Antenna size (2D dimension)

