

Antenna Test Report

For

Project BP69RC

Version:

Customer	联雅	Project	BP69RC
Band	BT	Color	
Issued by	LH	Checked by	
Confirmed by		Date	2024.03.22

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

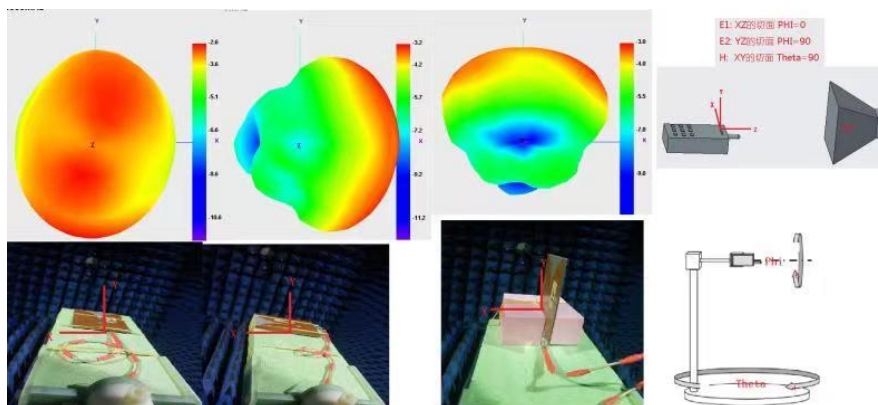
类别 (Class)	测试项目 (Test item)	设备 (Equipment)
1. S parameter	1. 回波损耗(RL) 2. 驻波比 (VSWR) 3.斯密斯原图(Smith chart)	网分 (VNA) : Agilent E5071B R&S ZVB8 Protek A333
2. 耦合测试 (Coupling testing)	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1.2G/3G Tester: Agilent 8960 2.The coupling box: TESCOM TC-5060A 3. 3D Chamber: ETS 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)



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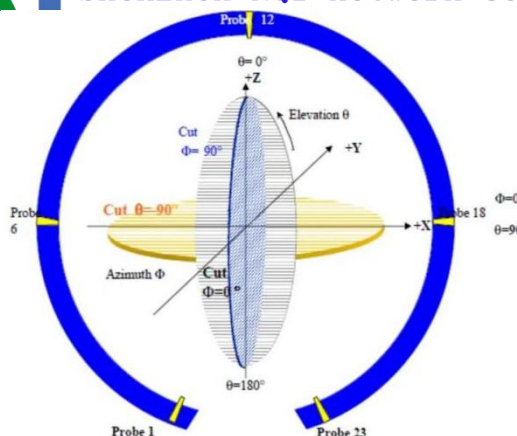
二. Chamber coordinate axis (暗室坐标)



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三. Definitions (定义)

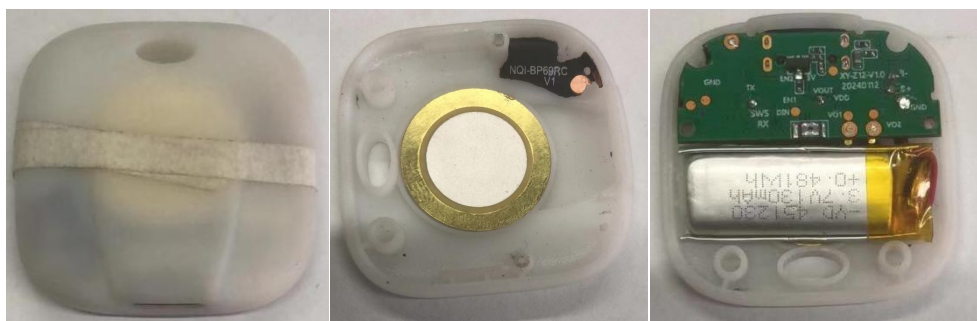
VSWR: Voltage Standing Wave Rate

RL: Return loss

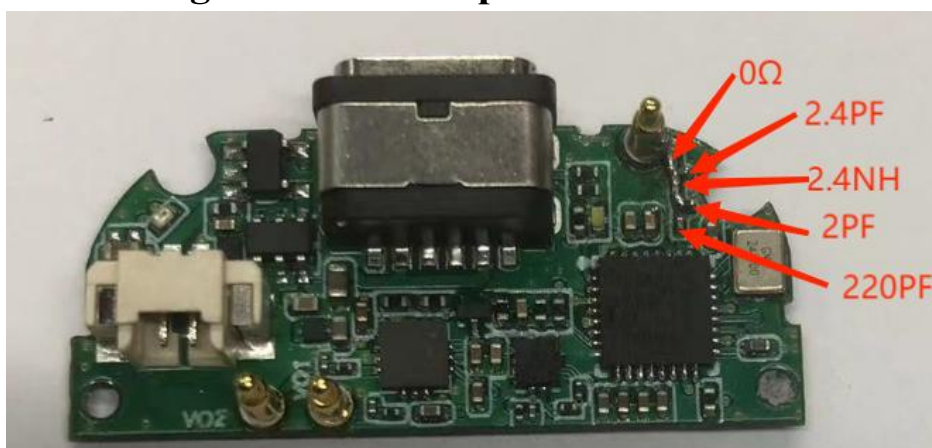
TRP: total radiated power

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)

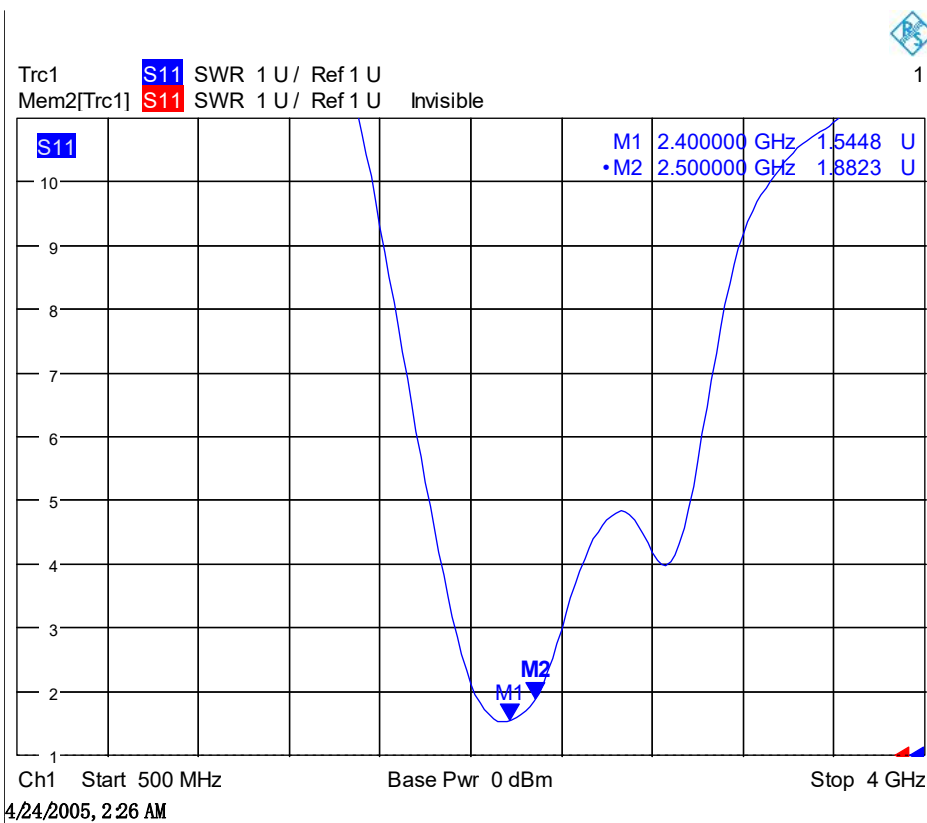
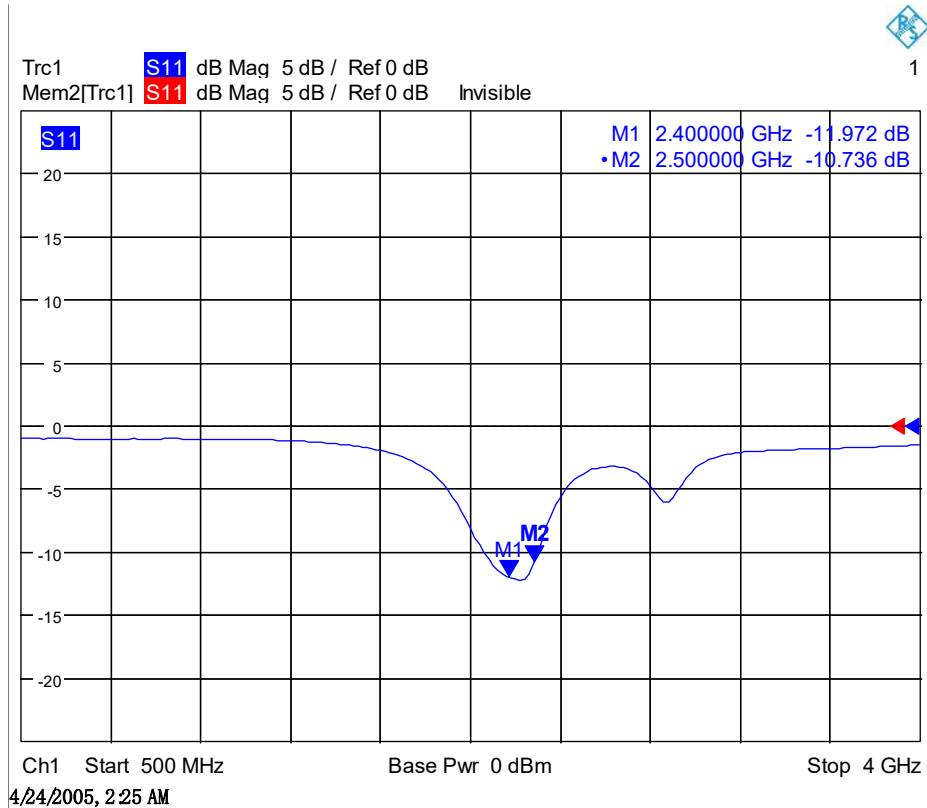


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六. Passive Test (无源测试)

6.1. RL/VSWR (回波损耗/驻波比)



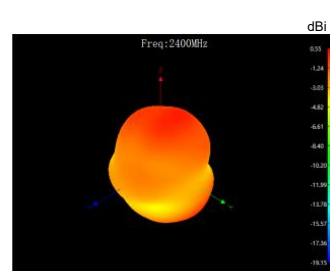
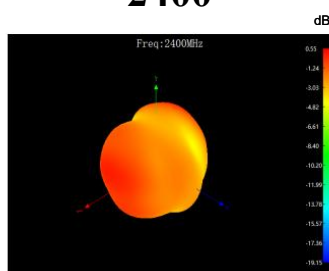
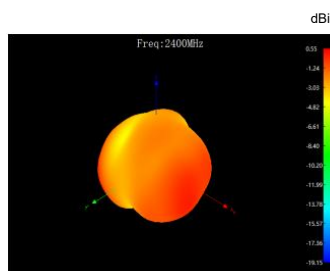
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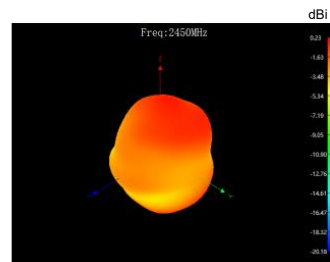
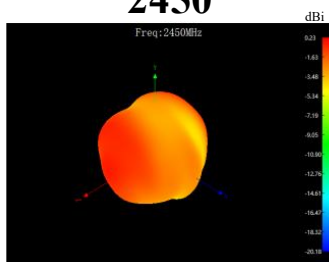
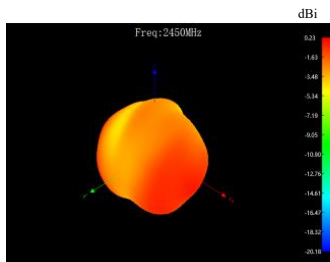
6.2.Effeciency、Gain、 Radiation pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	39.81	0.55
2410	37.33	0.27
2420	38.64	0.5
2430	38.19	0.39
2440	39.36	0.25
2450	38.02	0.23
2460	37.76	-0.02
2470	37.33	0.29
2480	36.8	0.03
2490	36.4	0.5
2500	36.73	0.1

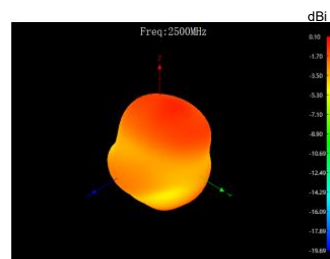
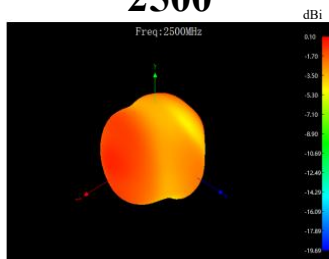
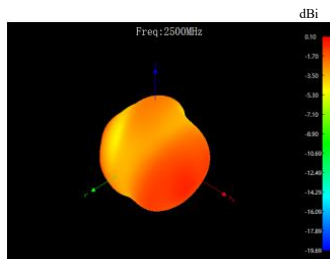
2400



2450



2500



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七. Field testing (场测或实测)

field test result (场测结果)		
Test site (测试场地): Vacant lot outside the company gate (国质信门口空地)		
Cell-phone (测试手机): 苹果 8plus		
The teser (测试员): LH		
Height of mobile phone stand (手机支架高度): 1.2m		
测试结果		
		Actual test distance (实测测试距离)
1	天线匹配串联 220PF	78m
备注:		



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