

Antenna Test Report

For

Project ET5000BT

Version:

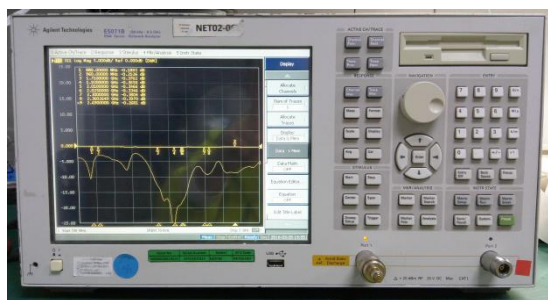
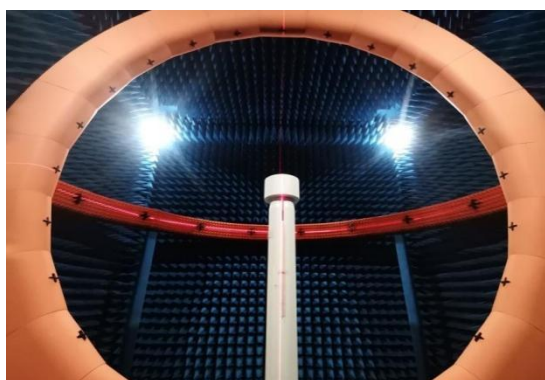
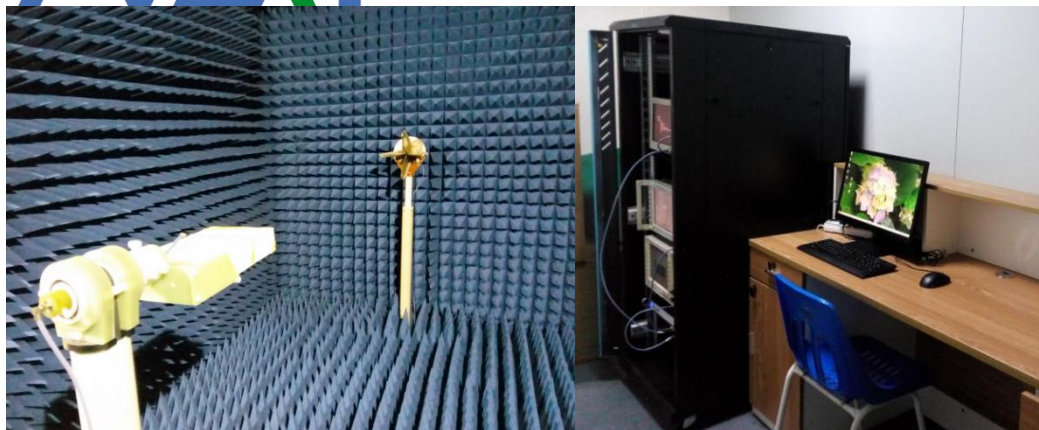
Customer	博陆科	Project	ET5000BT
Band	BT	Color	
Issued by	WWL	Checked by	
Confirmed by		Date	2024.09.18

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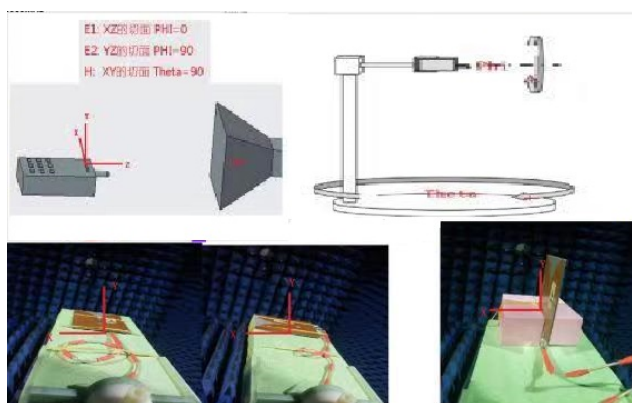


一. Test Instrumentation and item(测试设备及项目)

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)



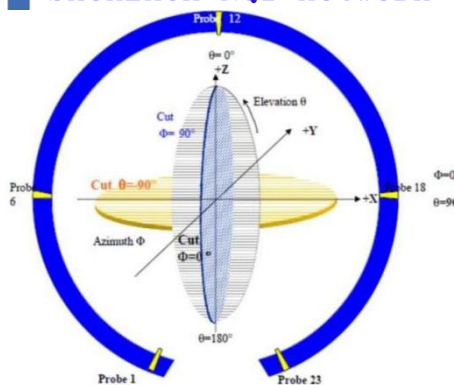
二. Chamber coordinate axis (暗室坐标)



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ShenZhen NQI network communication ltd



三. Definitions (定义)

VSWR: Voltage Standing Wave Rate

RL: Return loss

TRP: total radiated power

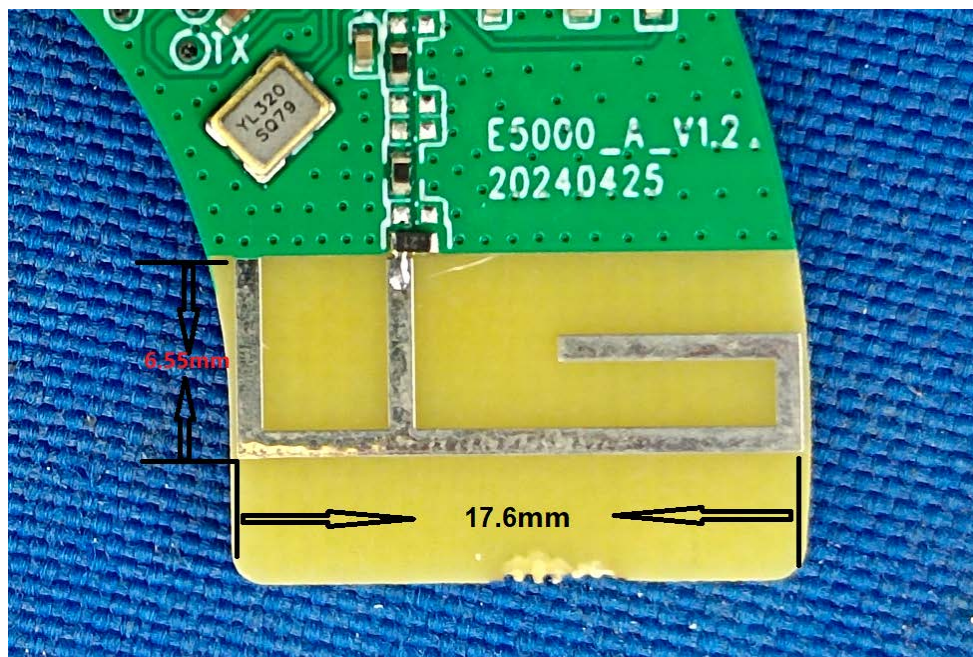
TIS: total isotropic sensitivity

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

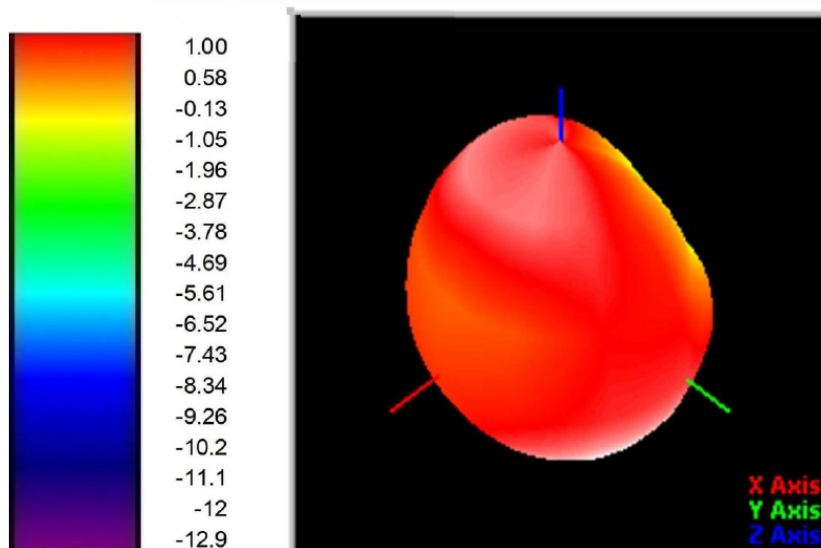


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五. Antenna size



六. Passive Test (无源测试)

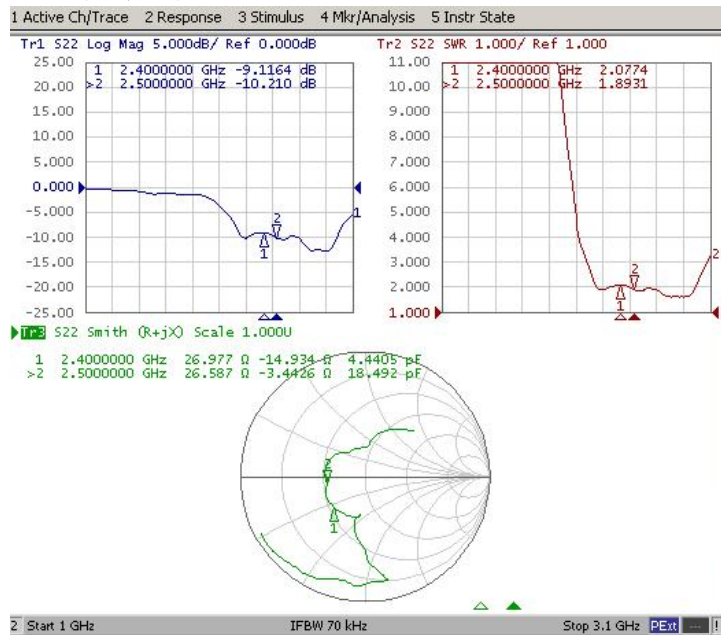


Frequency	Antenna gain
2450MHz	1 dBi

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RL/VSWR (回波损耗/驻波比)



七. TRP&TIS

NQI ANT TRP&TIS parameter Summary of ET5000BT				
	Test	Bluetooth TRP		
	Result	0	39	78
自由空间	TRP (dBm)	6.89	6.99	7.85
	TIS (dBm)	-91.71	-91.3	-93.06
	Test	Bluetooth TRP		
	Result	0	39	78
二代头戴模	TRP (dBm)	5.06	5.55	6.55
	TIS (dBm)	-89.14	-89.44	-90.93