

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	敏动
Project	R6PROMAX
Project NO	XBY240143

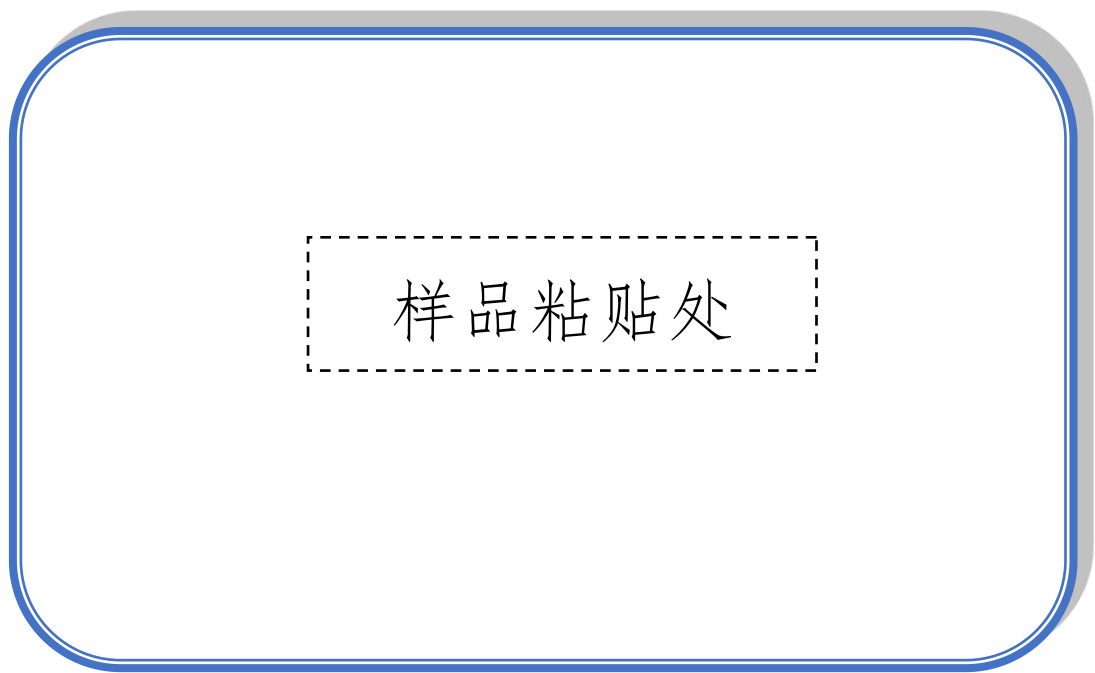
Shenzhen Xiangboyi Technology Co. Ltd

Date: 2024/12/11

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Customer confirmation			
Engineer	PM	Quality	Approval
			Li bin Zeng

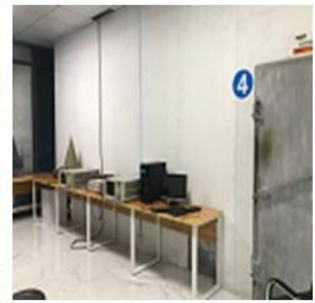
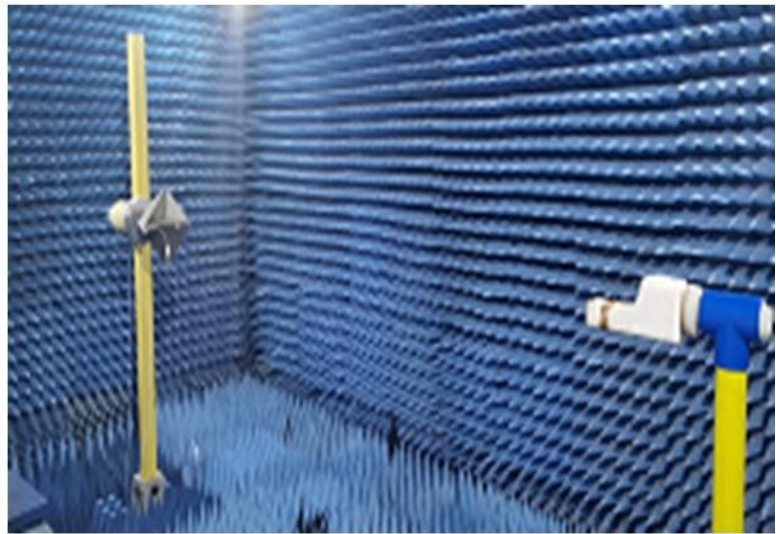
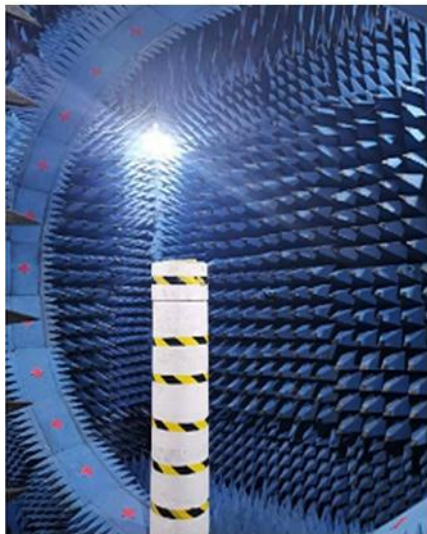
Supplier confirmation		
ME	RF	Approval
		Andrew Huang

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一. 测试系统及设备 Test System and Equipment

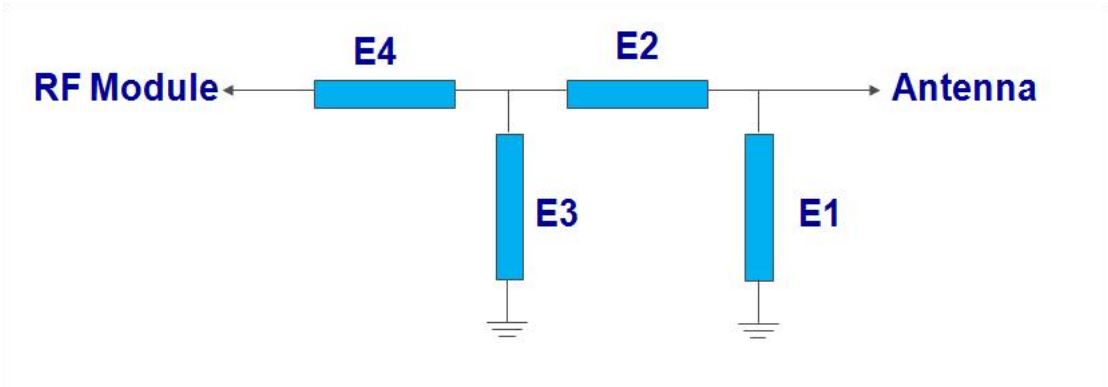
	Test items	equipment
1 : S paramet	1. Return loss 2. VSWR	网络分析仪: A338/A333 HP8753D
2 : Active tes	1. TRP 2. TIS	综合测试仪: Agilent 8960/ CMW500
3 : Radiation mode and gain	1. Radiation mode 2. Gain	1. 暗室: 5x3x3 m (ETS-3D) 2. 网络分析仪: HP 8753D



二. 产品详细描述 Product Description

技术要求 Technical requirements	技术指标 Technical index	备注 Remarks
工作频段 Band	WIFI:2. 4G/5G BT	
频率范围 Range Of Frequency	2400-2500Mhz 5100-6000Mhz	
驻波比 VSWR	<2.0	中心频率 Center Frequency
输出阻抗 Impedance	50 Ω	
极化方式 Polarization	线极化 Linear polarization	
工作温度 operating temperature	-20℃ / +55℃	
存储温度 storage temperature	-25℃ / +65℃	
盐雾 Salt Fog	24 小时 (24 小时干湿交替) 24h (24h alternating wet & dry)	
无铅认证 RoHS Compliant	是 yes	

四. 匹配电路 Matching Circuits



Element	Value	Vender
E1(0201)	NA	
E2(0201)	0Ω	
E3(0201)	NA	
E4(0201)	0Ω	

天线匹配未做改动。

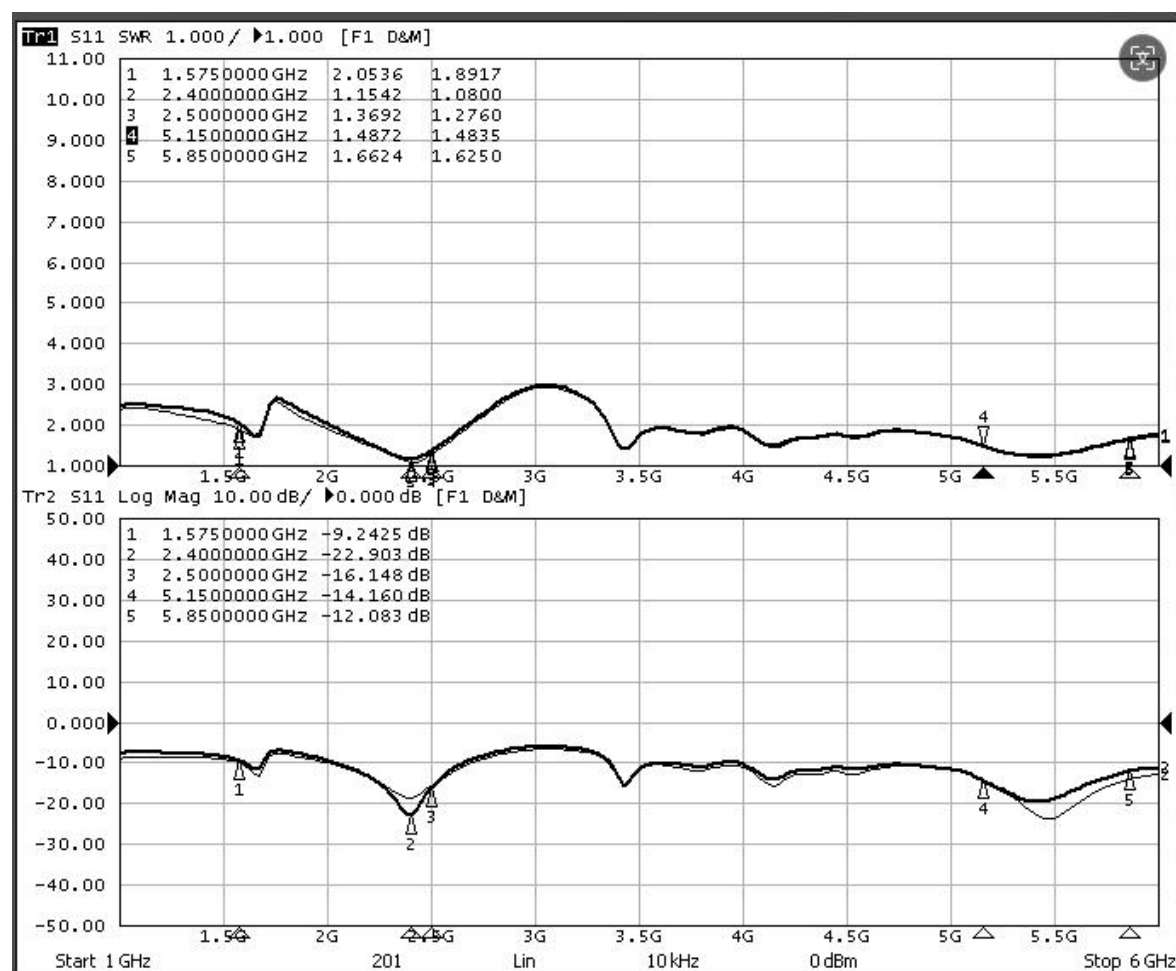
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五.有源，无源测试数据 active , Passive Test Data

WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	13.16	12.16	12.59	10.62	10.89	10.51
TIS			-80.23			-68.89

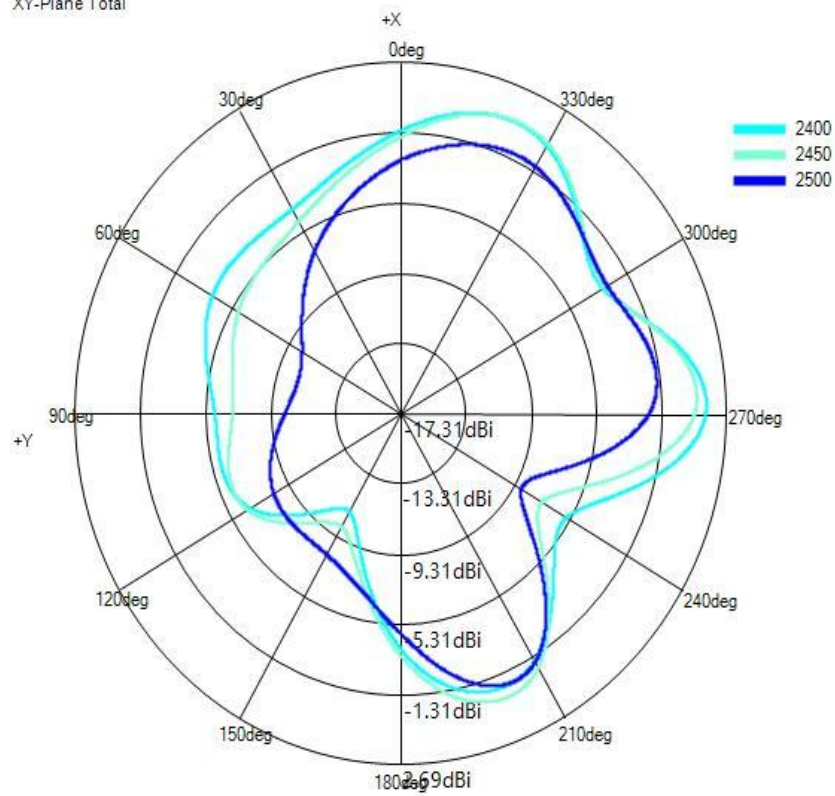
WIFI BAND	802.11n : MCS7 (2.4G)			802.11a : 54Mbps (5G)		
Channel	CH1	CH7	CH13	CH36	CH149	CH161
TRP	10.26	10.51	10.43	10.19	9.21	9.56
TIS			-69.12			-67.46

WIFI BAND	BT					
Channel	CH0	CH39	CH78			
TRP	1.89	3.54	3.17			
TIS			-82.59			

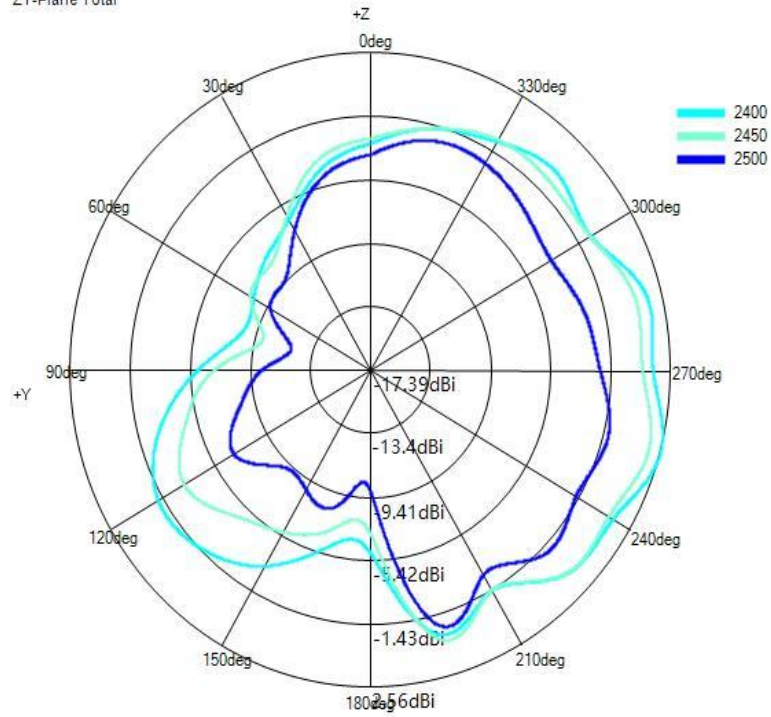


Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	2.56	58.29
2450	1.76	51.01
2500	0.56	40.35
5100	2.81	55.79
5200	3.27	62.06
5300	2.82	57.94
5400	3.19	63.50
5500	2.99	57.43
5600	3.61	65.37
5700	3.37	58.58
5800	3.33	58.10
5900	3.27	56.02

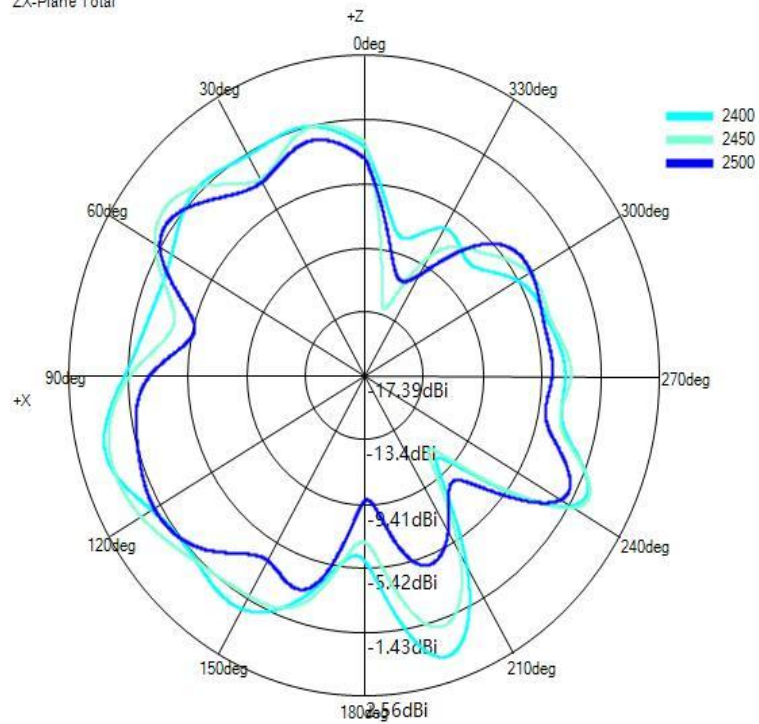
XY-Plane Total



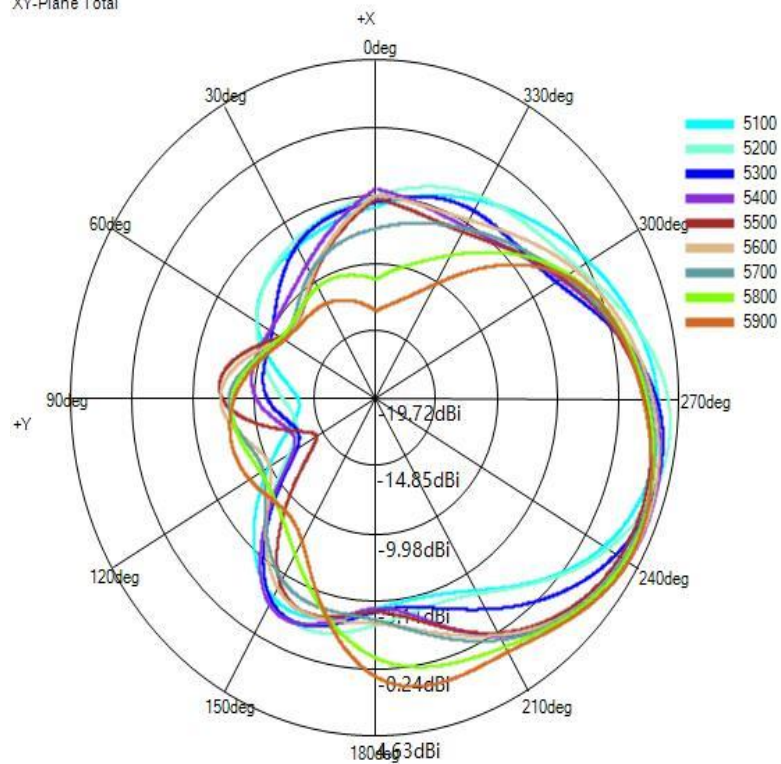
ZY-Plane Total



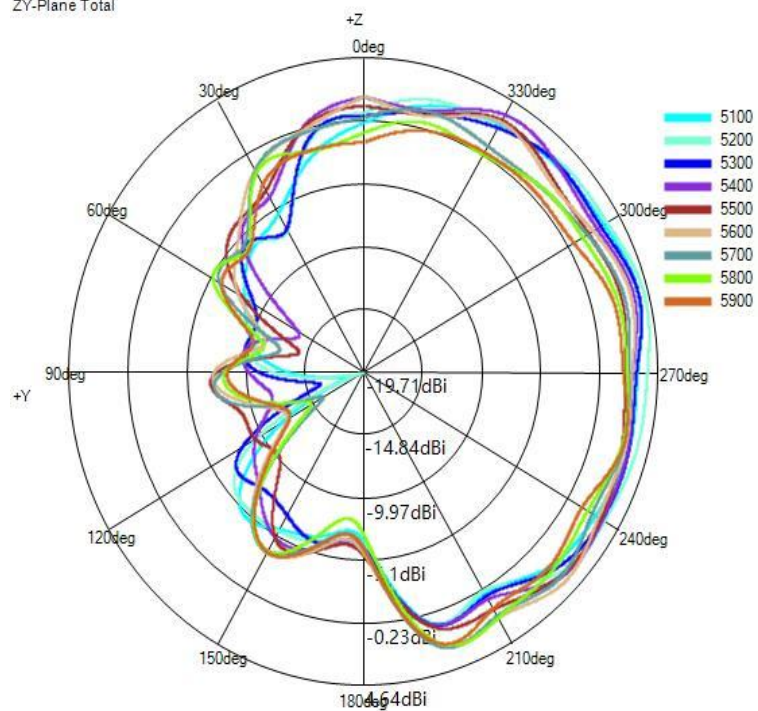
ZX-Plane Total



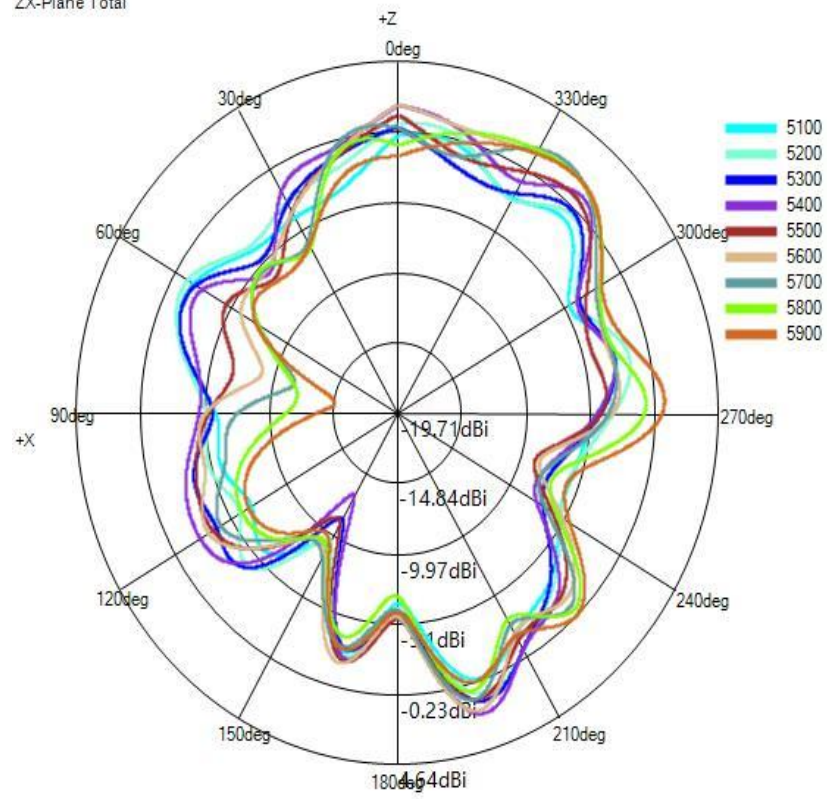
XY-Plane Total



ZY-Plane Total



ZX-Plane Total



六.工程图 Engineering Drawing

