

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification Sheet

客户名称	和天创
Part No.	L018-WIFI
Model	XBY240035-WIFI

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日期：2024 年 10 月 09 日

样品粘贴处

客户确认			
工程	项目	品质	批准

供方确认		
结构	射频	批准

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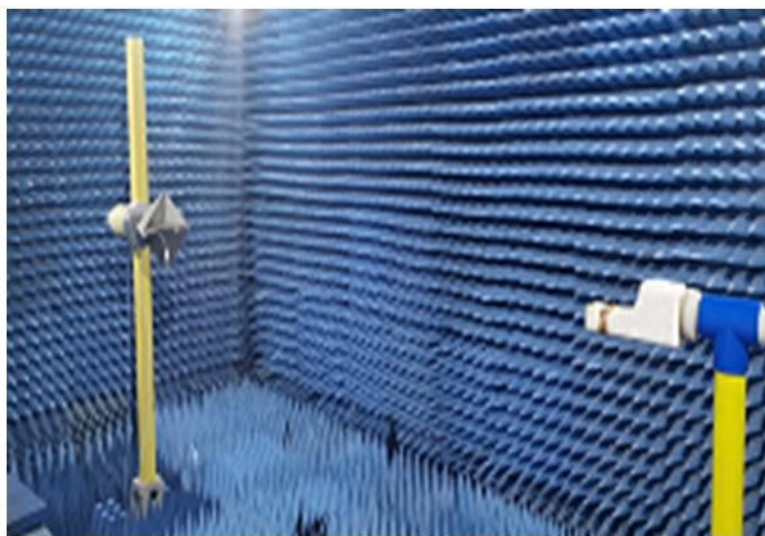
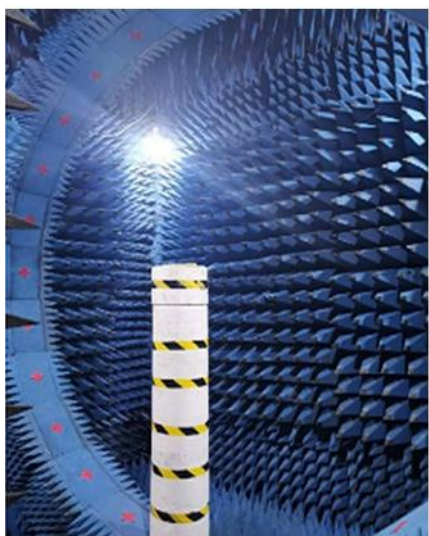
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一. 测试系统及设备 Test System and Equipment

	测试项目	设备
1 : S 参数	1. 回波损耗 2. 驻波比	网络分析仪: A338/A333 HP8753D
2 : 有源测试	1. TRP 2. TIS	综合测试仪: Agilent 8960/ CMW500
3 : 无源测试		1. 暗室: 5x3x3 m (ETS-3D) 2. 网络分析仪: HP 8753D



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二. 产品细节描述 Product Description

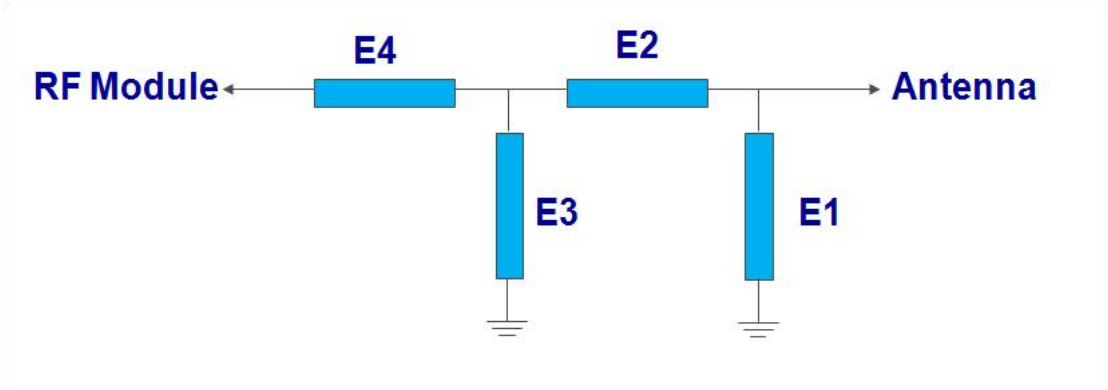
技术要求 Technical requirements	技术指标 Technical index	备注
工作频段 Band	WIFI: B/G/N/A 模	
频率范围 Range Of Frequency	WIFI: 2400-2500Mhz 5000-5800Mhz	
驻波比 VSWR	2400-2500Mhz<3.0 5000-5800Mhz<3.0	中心频率 Center Frequency
输出阻抗 Impedance	50 Ω	
极化方式 Polarization	线极化 Linear polarization	
工作温度 operating temperature	-20℃ / +55℃	
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	

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四. 匹配电路 Matching Circuits



匹配电路

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

天线匹配没有做改动。

五. 有源测试数据 Active Test Data

WIFI BAND	802.11a : 54Mbps (5G)					
Channel	CH36	CH149	CH161			
TRP	11.41	12.13	12.37			
TIS			-70.15			

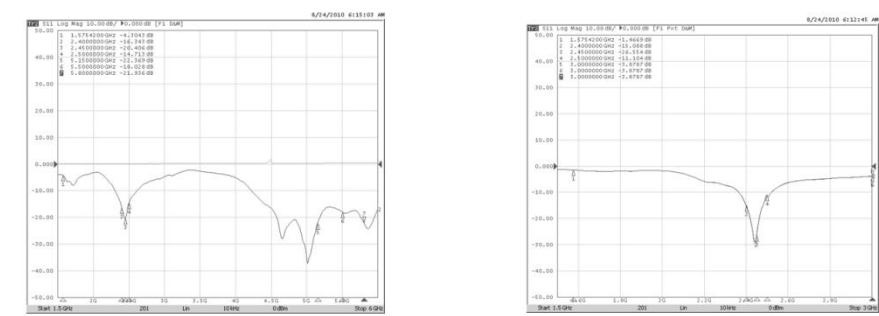
WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	14.35	14.56	14.83	10.79	10.85	11.12
TIS			-79.46			-67.61

WIFI BAND	802.11n : MCS7 (2.4G)					
Channel	CH1	CH6	CH11			
TRP	10.54	10.98	10.64			
TIS			-69.40			

WiFi 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.05	2.87
2410	49.78	2.87
2420	52.69	2.98
2430	53.06	2.77
2440	52.56	2.49
2450	52.56	2.3
2460	50.99	1.97
2470	51.04	1.69
2480	52.95	1.95
2490	52.51	2.07
2500	51.95	2.28

WiFi 5.8G		
Freq (MHz)	Effi (%)	Gain (dBi)
5000	50.46	1.38
5100	53.56	1.49
5200	54.17	2.71
5300	49.61	2.62
5400	50.18	3.56
5500	52.57	3.76
5600	51.25	3.89
5700	55.26	3.26
5800	52.12	3.47
5900	47.43	2.04
6000	47.36	2.69

BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.93	2.11
2410	45.03	2.25
2420	46.56	2.43
2430	47.58	2.45
2440	48.24	2.56
2450	48.75	2.56
2460	48.55	2.59
2470	49.1	2.6
2480	50.52	2.7
2490	50.42	2.6
2500	49.69	2.41



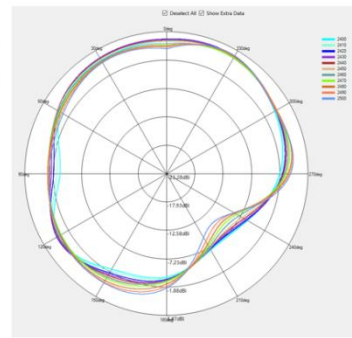
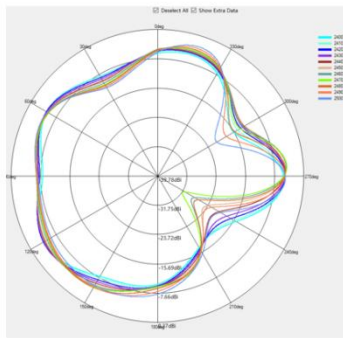
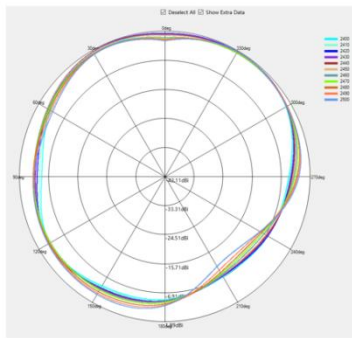
测试结论及注意事项：

指标满足 WIFI 频正常天线指标

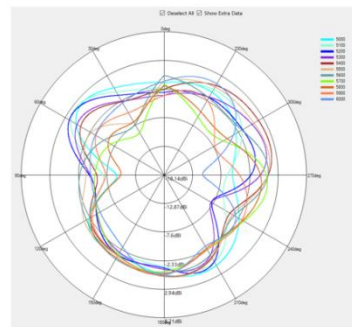
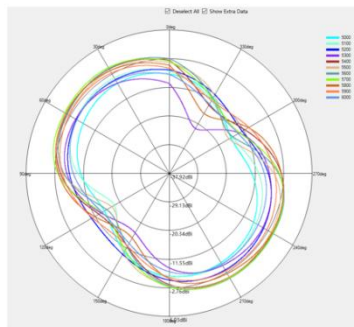
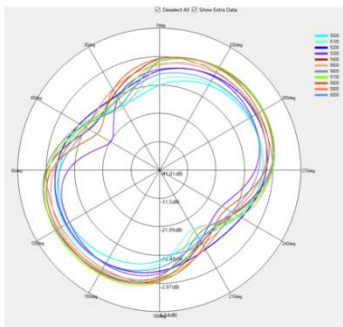
注意：本天线只适用于调试样机，任何主板版本有变更或者射频物料更改有变动，都必须经过我司测试验证后方可使用。

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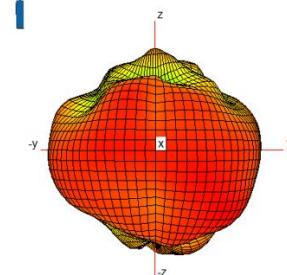
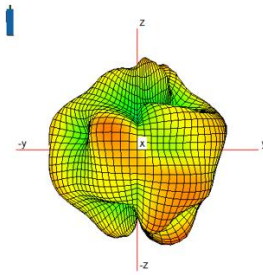
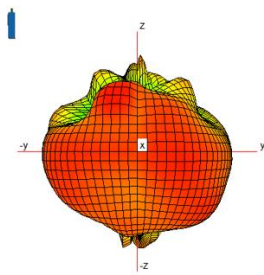
WiFi 2.4G



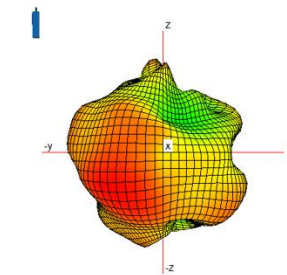
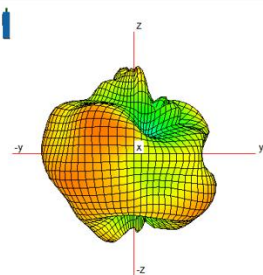
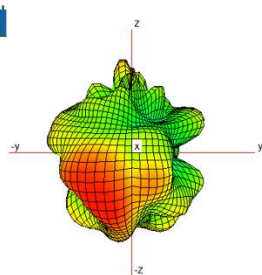
WiFi 5.8G



WiFi 2.4G



WiFi 5.8G

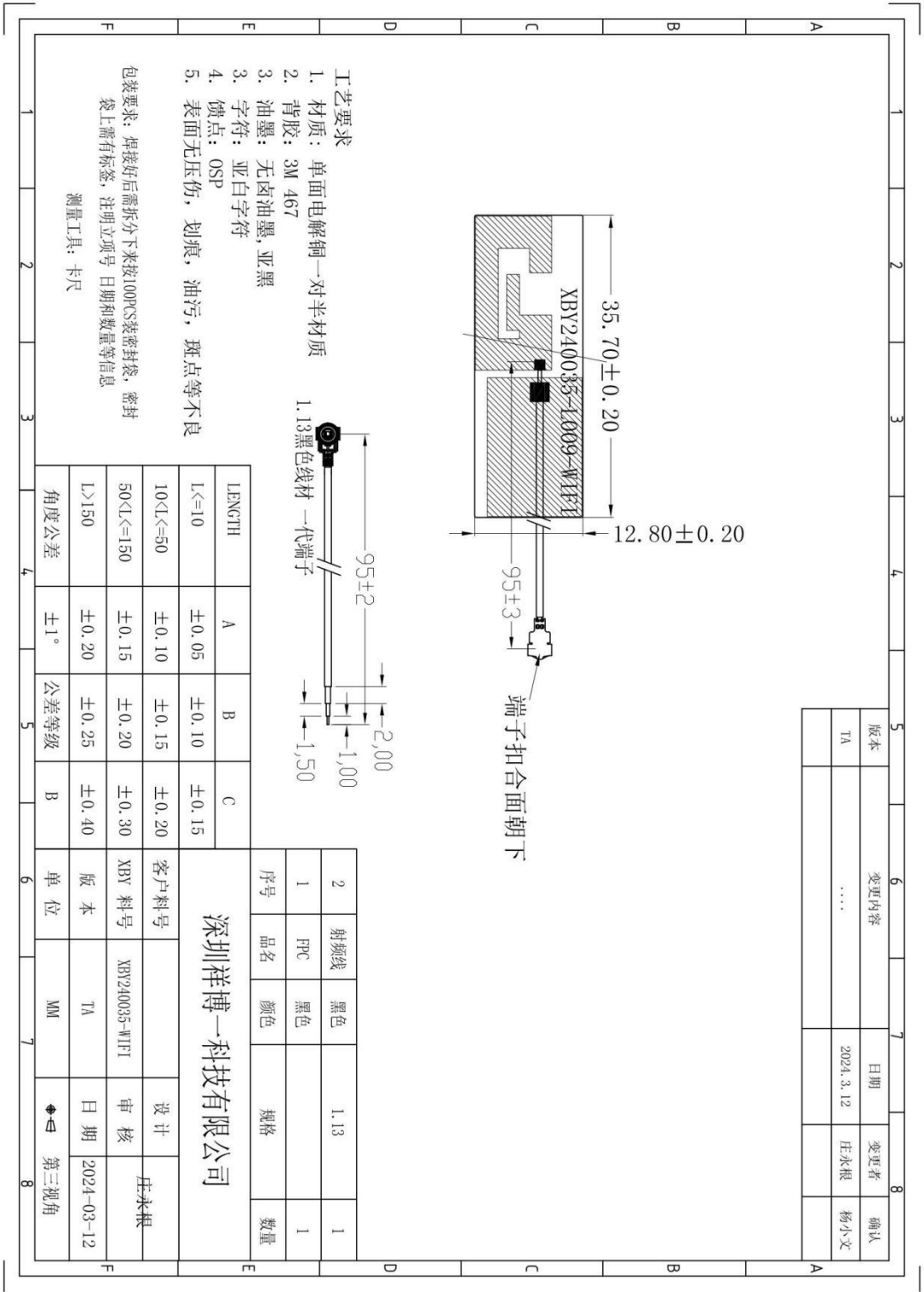


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六. 工程图 Engineering Drawing



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