

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

规格承认书

An acknowledgement of specifications

客户名称 customer name	
项目名称/料号 Project name	21640 21640
供方料号 Supplier material number	XBY240026-A XBY240026-A
天线类型 Antenna type	胶棒天线 Glue stick antenna

日期: 2024 年 04 月 13 日

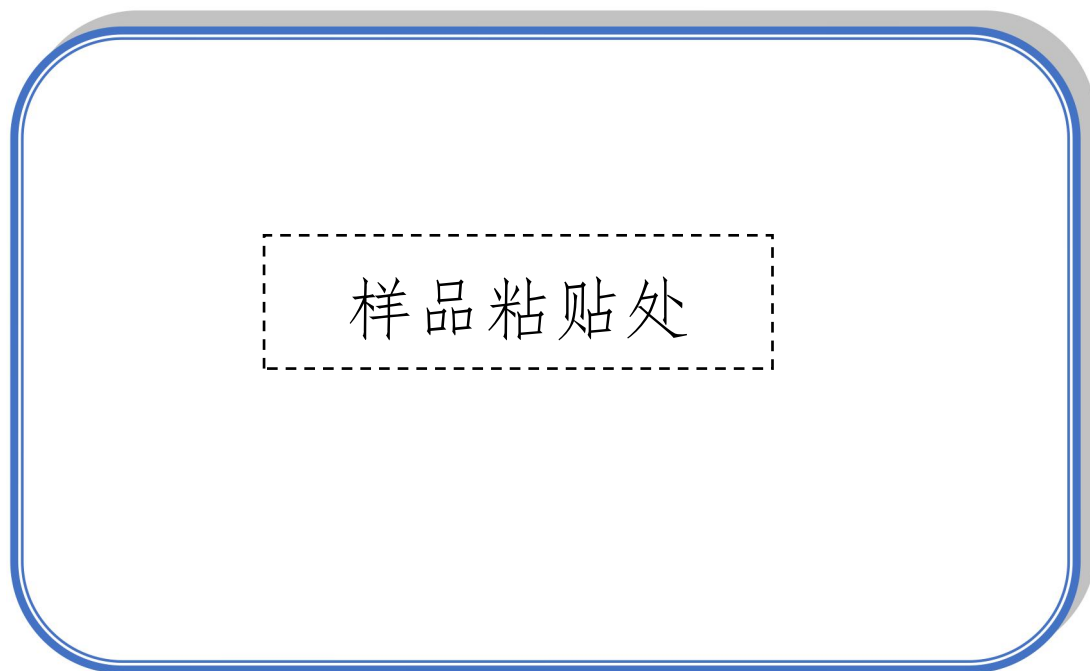
深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD

电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200

研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen

生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼

Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City



客户确认 Customer confirmation			
工程 Engineer	项目 Project	品质 Quality	批准 Ratify

供方确认 Confirm by the supplier		
结构 Structure	射频 Radio Frequency	批准 Ratify

深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen
生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

目录 Catalogue

一. 测试系统及设备 Test System and Equipment	- 4 -
二. 产品细节描述 Product Description	- 5 -
三. 无源增益效率 Gain efficiency	- 6 -
四. 工程图 Engineering Drawing	- 9 -

深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD

电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200

研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen

生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼

Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

一．测试系统及设备 Test System and Equipment

	测试项目 Test project	设备 Equipment
1: S 参数 parameters	1. 回波损耗 Smith roundabout 2. 驻波比 VSWR	网络分析仪 Network analyzer : A338/A333 HP8753D
2: 有源测试 active test	1. TRP 2. TIS	综合测试仪 Comprehensive test instrument : Agilent 8960/ CMW500
3: 无源测试 passive test	1. 天线效率 Antenna efficiency 2. 天线增益 Antenna staff augmentation	1. 暗室 Darkroom; 5x3x3 m (ETS-3D) 2. 网络分析仪 Network analyzer : HP 8753D

深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
 电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
 研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng
 Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen
 生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
 Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial
 Zone, Tangxia Town, Dongguan City



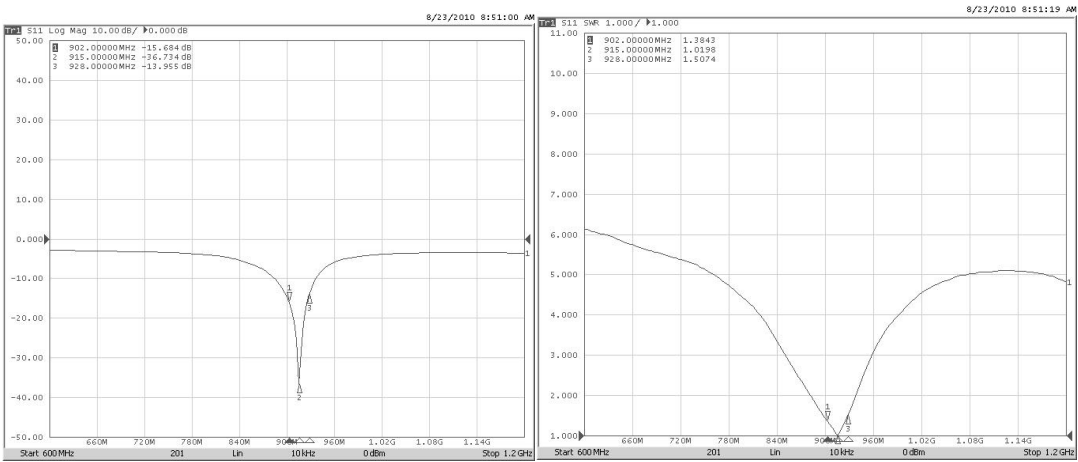
二. 产品细节描述 Product Description

技术要求 Technical requirements	技术指标 Technical index	备注 comments on a form
工作频段 Band	915MHz	
频率范围 Range Of Frequency	902-928MHz	
驻波比 VSWR	902-928Mhz<3.0	中心频率 Center Frequency
输出阻抗 Impedance	50 Ω	

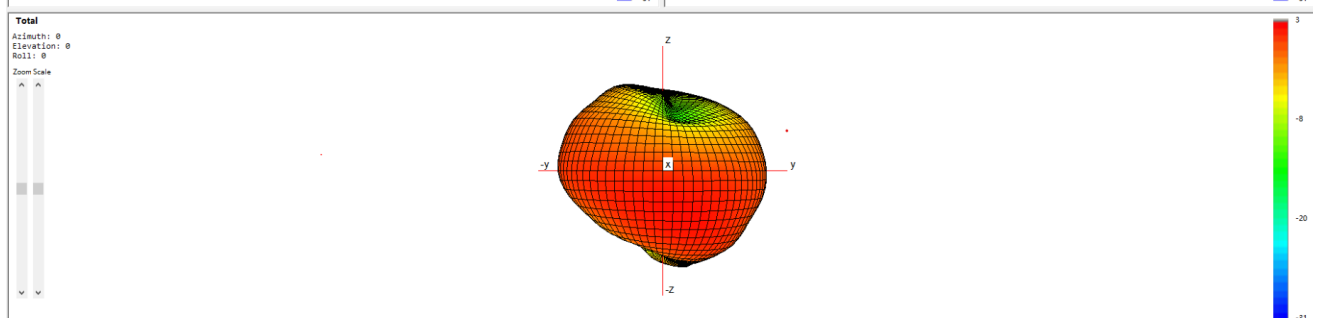
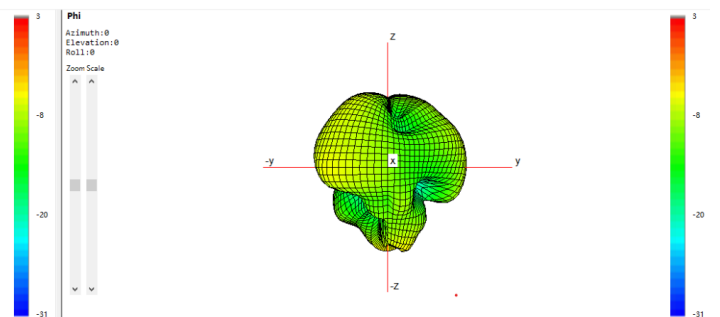
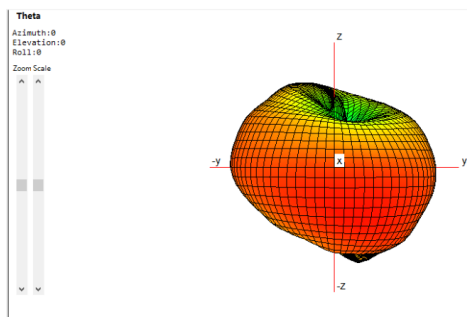
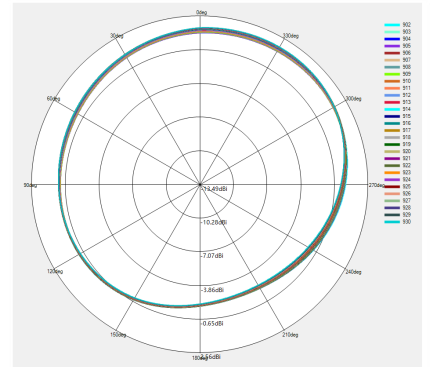
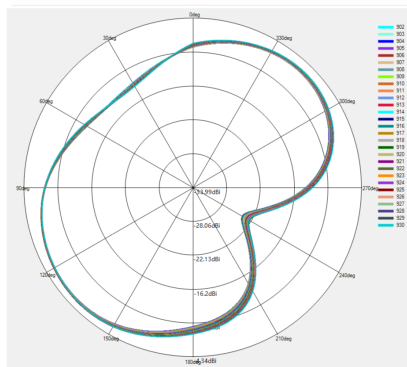
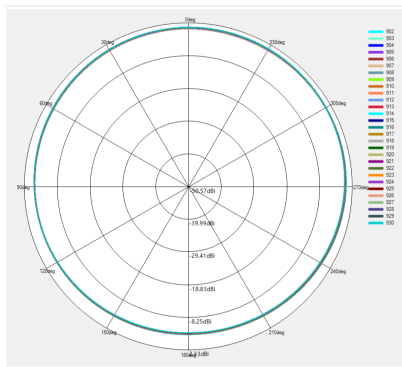
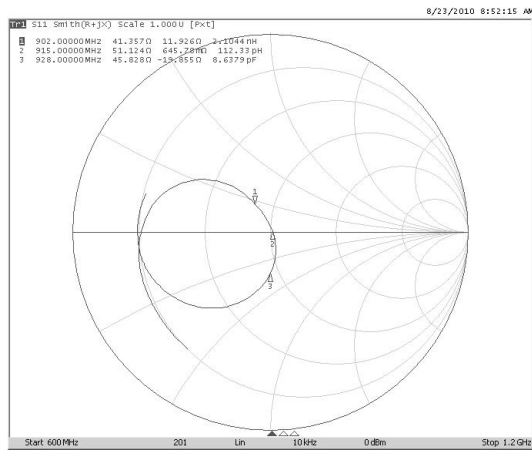
深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
 电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
 研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen
 生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
 Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

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	

三. 无源增益效率 Gain efficiency



深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
 电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
 研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101,1st floor, Wencheng Building, Yousong Cultural Innovation Park, No.95 Yousong Road, Longhua District, Shenzhen
 生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
 Production base: 5th floor, Building B, Huazhi Chuang Valley, No.7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City



深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
 电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
 研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen
 生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
 Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

Freq (MHz)	Effi (%)	Gain (dBi)
900	57.83	2.37
901	58.31	2.37
902	58.62	2.35
903	58.78	2.32
904	59.02	2.3
905	59.34	2.28
906	59.45	2.26
907	59.67	2.22
908	59.7	2.17
909	59.81	2.15
910	59.88	2.11
911	59.76	2.08
912	59.64	2.05
913	59.44	2.01
914	59.21	1.98
915	58.83	1.93

915	58.83	1.93
916	58.42	1.89
917	58.09	1.85
918	57.59	1.8
919	57.07	1.74
920	56.52	1.69
921	55.96	1.63
922	55.39	1.58
923	54.56	1.51
924	53.82	1.45
925	53.24	1.41
926	52.35	1.34
927	51.59	1.28
928	50.7	1.21
929	49.88	1.15
930	48.87	1.07

测试结论及注意事项：

指标满足 902-928MHz 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。

Test conclusions and precautions:

The index meets the normal antenna index of 902-928 MHz Note: This antenna is only applicable to commissioning prototype. For any motherboard version changes or RF material changes, it must be tested and verified before use.

深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD

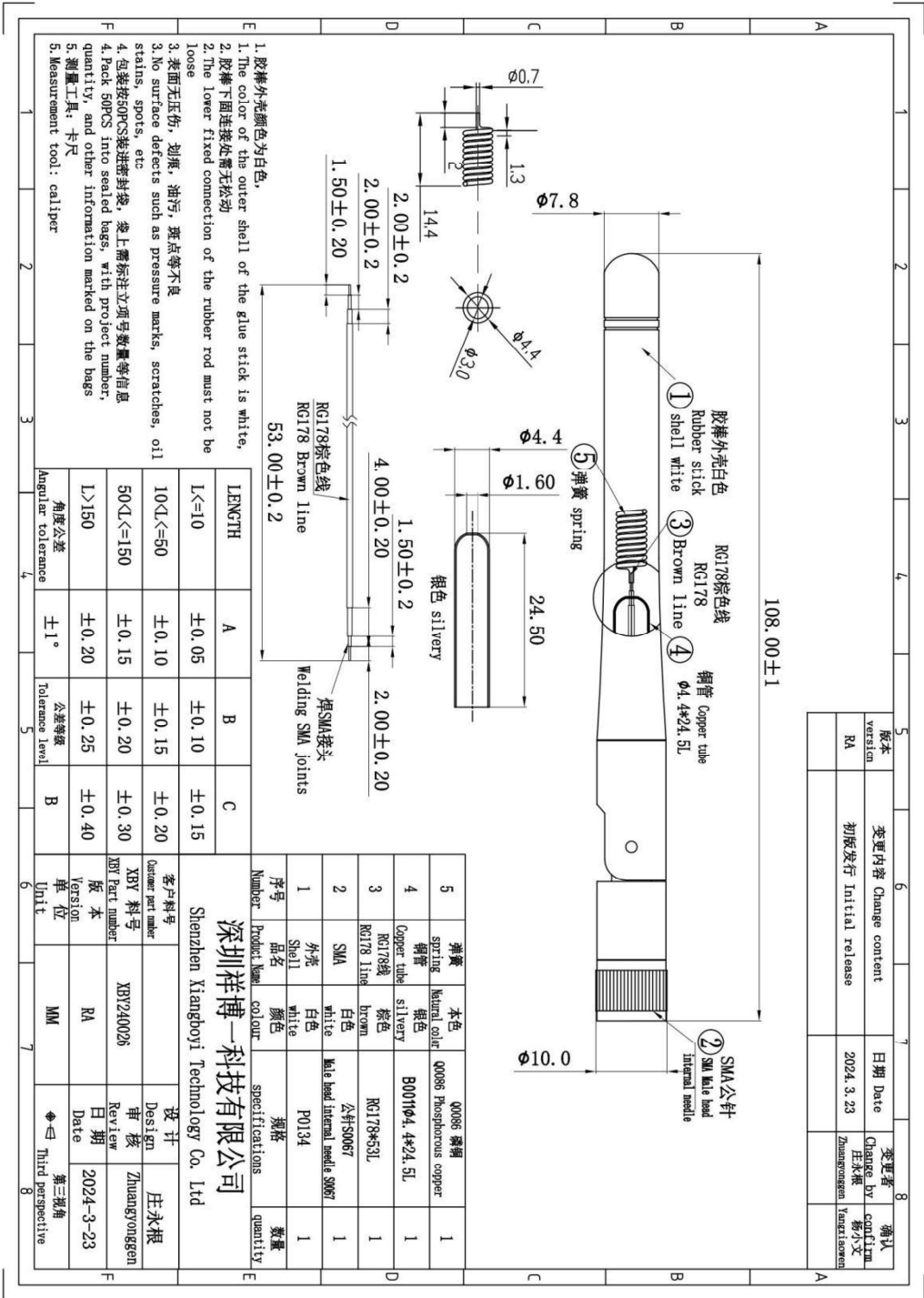
电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200

研发中心：深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen

生产基地：东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼

Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City

四. 工程图 Engineering Drawing



深圳祥博一科技有限公司 Shenzhen Xiangboyi Technology Co., LTD
电话 Telephone: 0755-29369912 传真 Portraiture: 0755-61624200
研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101 R & D Center: 101, 1st floor, Wencheng Building, Yousong Cultural Innovation Park, No. 95 Yousong Road, Longhua District, Shenzhen
生产基地: 东莞市塘厦镇 138 工业区裕华街 7 号华智创谷 B 栋 5 楼
Production base: 5th floor, Building B, Huazhi Chuang Valley, No. 7, Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan City