



深圳市锦鸿无线科技有限公司

Shenzhen Jinhong Wireless Technology Co., Ltd.

Antenna Specification Document

产品规格书Product Specification

产品描述 Part Description	客户: 蓝硕 Vendor: 产品名称: FPC天线 Product Name: 物料代码: Part NO:	规格型号: JHLS2505-140-A/B/C/D Description: 所承认项目: F600 Project: 版本: A1 Version:		
附件 Attachments	☒ 规格书 Spec ☐ CPK 报告 Cpk Report ☐ 制造流程图 QC Flow Chart ☒ 包装方式 Packing Content	☒ 工程图面 Drawing ☐ 关键尺寸报告 FAI Report ☐ 成型条件 Molding conditions C3C 证书 3C Certificate	☐ 样品 Sample ☒ 可靠性测试报告 Reliability Report ☐ 材质证明书 Material Verification Sheet ☐ 物料检验标准 Material inspection standard	☒ ROHS 报告 ROHS Repot ☐ 安规报告 Safety Report
供应商签核 Vendor	拟制: 彭彪 Design:	审核: 郑翠兰 Check:	批准: 彭发辉 Approval:	
公司地址 Company Address	深圳市宝安区西乡街道伟业创新一八工业园B栋3楼 3rd Floor, Building B, Weiye Innovation 18 Industrial Park, Xixiang Street, Bao'an District, Shenzhen City			
技术确认 Technology check	结构意见/签名: Mechanical 工业/包材设计意见/签名: ID 品质意见/签名: DQE/SQE		硬件意见/签名: Hardware 项目意见/签名: Market	
最终确认 Final check	质量策划: Quality planning		ROHS: ☐ Rohs 物料 ☐ 非 Rohs 物料	
承认条件 Approval condition	☐ 承认 Approved ☐ 条件承认 Condition approved ☐ 临时承认 Temporary approved ☐ 拒绝承认 Reject 需满足条件: _____ 限量 _____ PCS 采购			
审批 Approval by	研发总工 (技术总监): RD Leader(Technology Director)		质量总监: Quality Director	
分发部门 Distribute	☐ IQC ☐ 采购 (供应商) ☐ 样品管理/文控 ☐ 外协厂 ☐ 其它			

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1说明instructions

这份报告包含天线电性能测试的若干设备、测试环境和测试结果，以及天线的结构图纸和检验报告

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna.

2 产品技术指标 Product specifications

电气参数	
频率范围 Frequency Range（MHz）	700~960/1710~2650/5100~5850
增益 Gain（dBi）	-0.58~3.59
电压驻波比 VSWR	≤2.0
输入阻抗 Input Impedance（Ω）	50
极化方式 Polarization	水平
最大功率 Maximum input power（W）	10
机械参数	
天线尺寸 Dimensions（mm）	见下方图纸
天线颜色 Antenna color	黑色

3 电气性能测试 Electrical performance test

3.1 测试设备 Test equipment and environment

测试设备



SATIMO-24



ETS



模拟人头手



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

测试系统
SATIMO—24
ETS

测试环境
温度：22℃ ± 3℃
湿度：50% ± 15%

有源测试
支持2G/3G/4G
BT/WIFI/GPS

无源测试
400MHZ——6G

3.2 OTA数据 OTA data

LTE OTA测试报告			
频段	信道	TRP	TIS
Band 1	18050	19.2	
	18300	19.4	
	18550	19.2	-93.2
Band 2	18700	18.5	
	18900	18.9	
	19100	19.0	-93.6
Band 3	19250	17.0	
	19525	17.2	
	19900	18.2	-94.8
Band 4	20050	17.2	
	20175	17.6	
	20300	18.1	-95.0
Band 5	20450	19.0	
	20525	19.2	
	20600	18.9	-92.9
Band 7	20800	18.9	
	21100	18.4	
	21400	18.0	-92.6
Band 8	21500	19.2	
	21625	19.1	
	21750	18.7	-93.0

Band 12	23060	17.0	
	23095	17.5	
	23130	18.0	-90.2
Band 13	23230	18.0	
	23202	18.3	
	23255	18.4	-90.0
Band 17	23780	17.7	
	23790	18.2	
	23800	18.4	-90.1
Band 20	24200	18.4	
	24300	18.3	
	24300	18.0	-91.5
Band 28	27260	18.2	
	27430	18.4	
	27610	18.3	-90.9
Band 66 (10M)	132022	17.2	
	132622	17.4	
	132297	17.8	-94.2
Band 71 (10M)	133172	16.5	
	133297	16.9	
	132422	17.0	-90.0
WIFI	1	10.2	
	7	10.4	
	13	10.0	-80.1

3.3 效率与增益 Efficiency and Gain

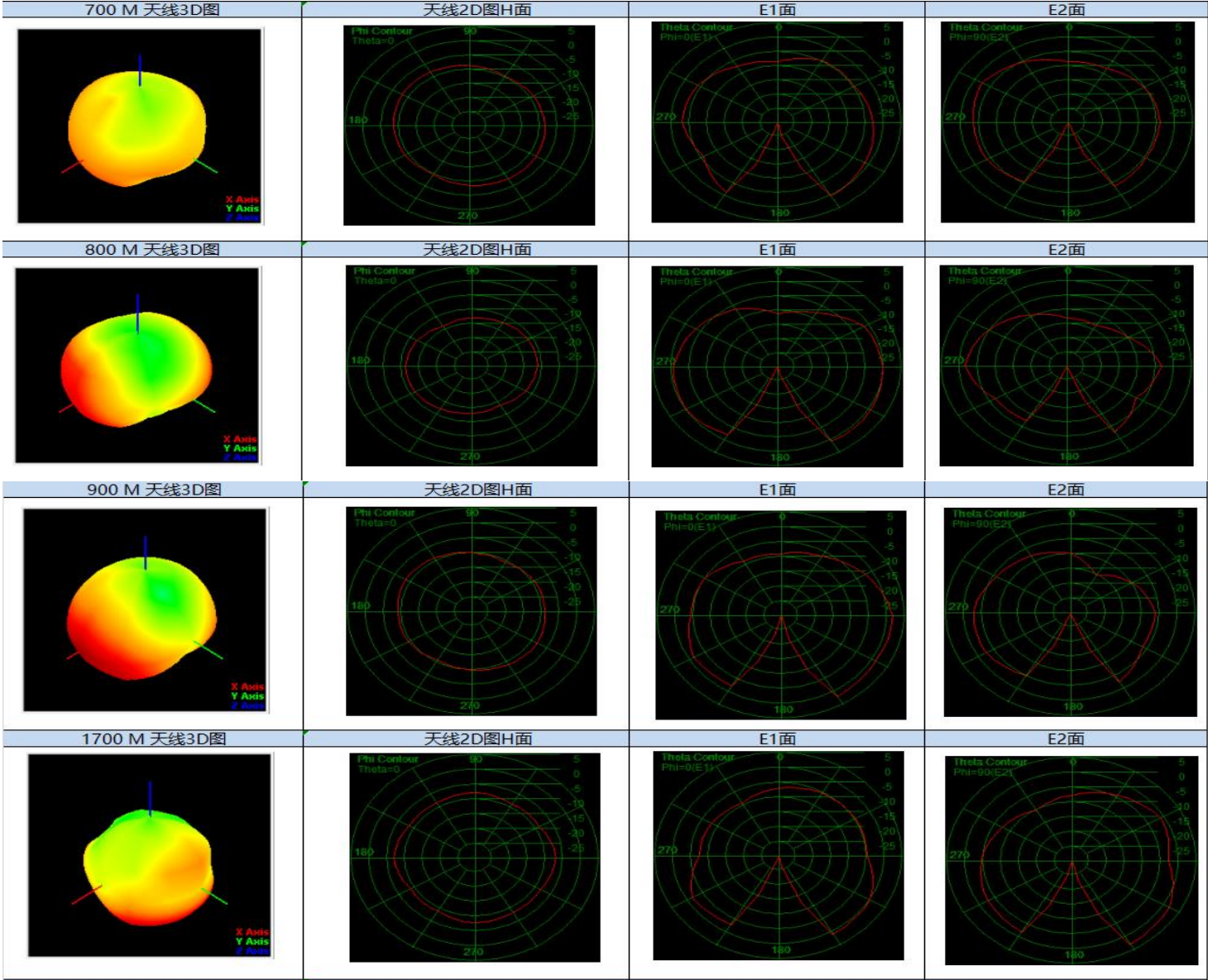
LTE天线		
Frequency 频率(MHz)	Gain 增益(dB)	Efficiency 效率 (%)
700.0	0.56	30.6%
750.0	0.81	38.9%
800.0	1.21	39.2%
850.0	1.48	41.8%
900.0	1.87	44.8%
950.0	2.61	44.5%
1700.0	3.03	44.6%
1750.0	3.39	46.2%
1800.0	2.30	43.7%

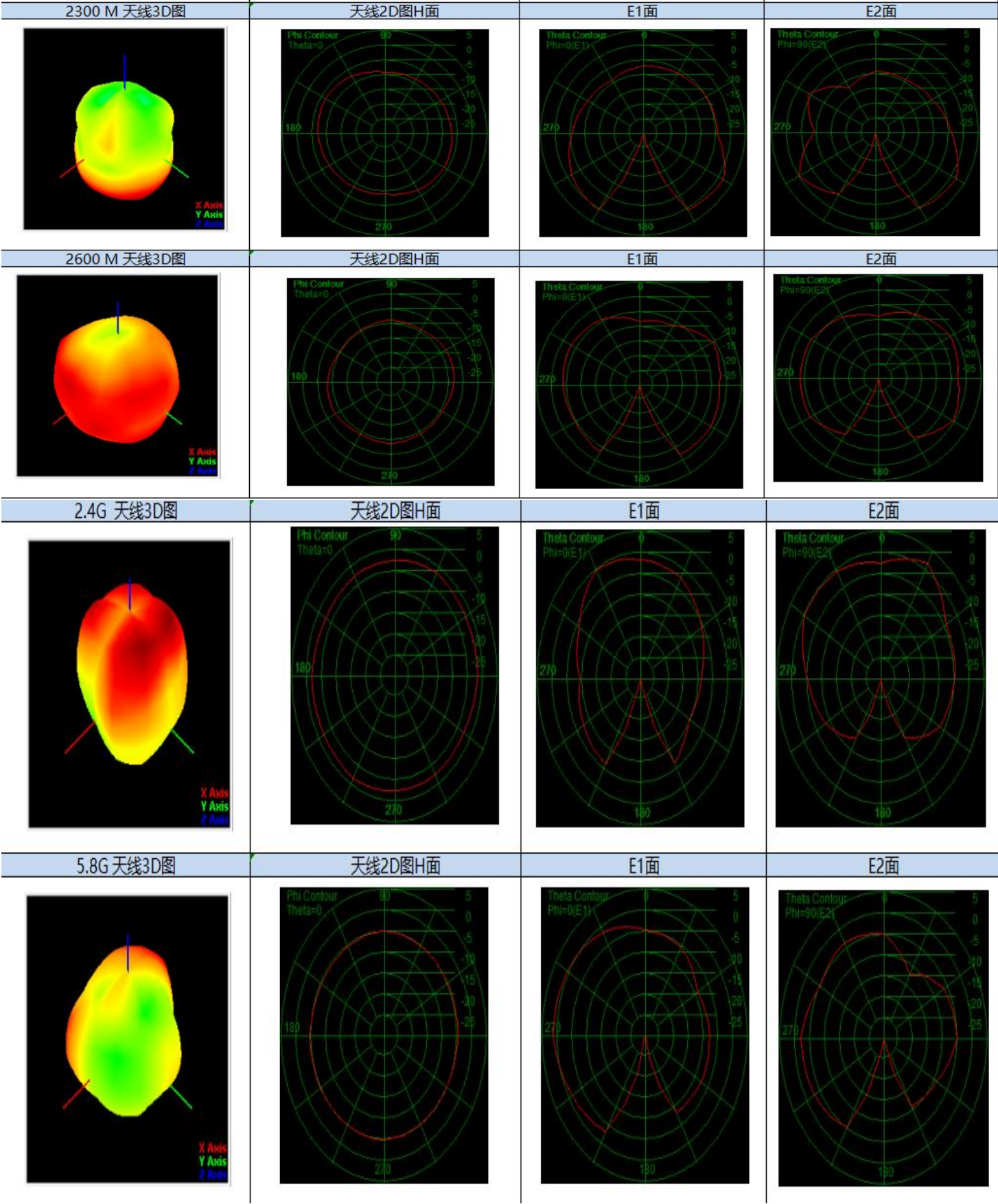
1850.0	3.14	47.7%
1900.0	2.56	47.7%
1950.0	1.91	49.0%
2000.0	2.00	48.8%
2050.0	2.55	44.8%
2100.0	3.55	55.1%
2150.0	3.59	59.7%
2200.0	2.20	61.9%
2250.0	2.99	53.8%
2300.0	3.29	39.6%
2350.0	2.13	53.7%
2400.0	3.03	60.5%
2450.0	2.79	54.5%
2500.0	1.92	40.0%
2550.0	-0.58	40.9%
2600.0	-0.28	44.5%
2650.0	0.94	34.0%
2700.0	0.66	35.8%

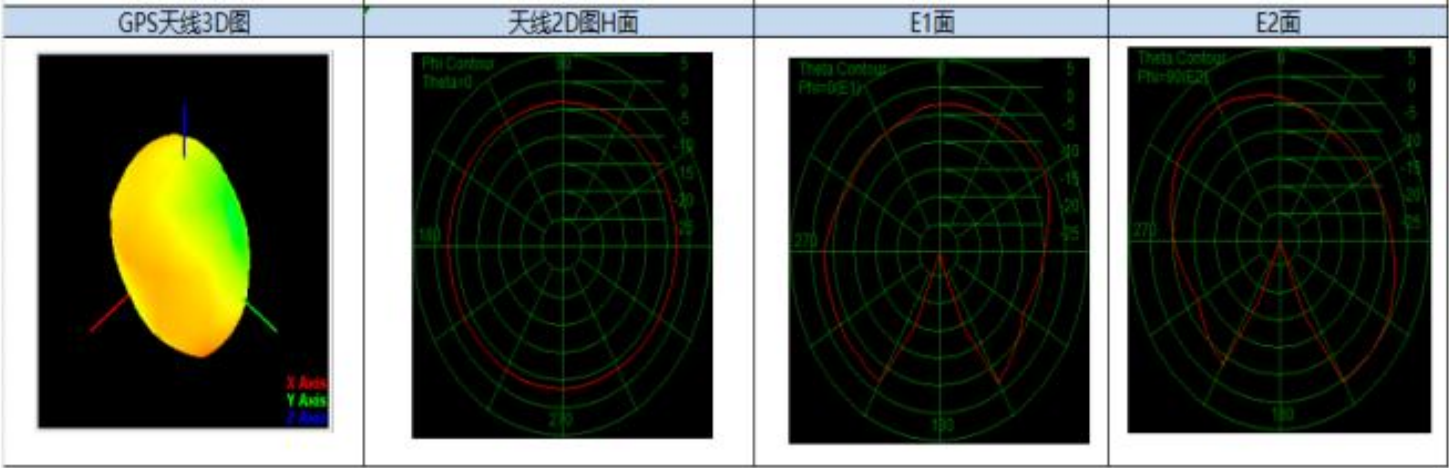
三合一天线		
Frequency 频率(MHz)	Gain 增益(dB)	Efficiency 效率 (%)
1570.0	1.18	36.0%
1571.0	1.06	38.0%
1572.0	1.05	37.7%
1573.0	1.09	39.9%
1574.0	1.15	39.0%
1575.0	1.06	39.8%
1576.0	1.08	38.1%
1577.0	1.11	39.0%
1578.0	1.13	38.1%
1579.0	1.07	38.7%
1580.0	1.04	35.6%
2400.0	1.49	40.8%
2420.0	1.22	42.9%
2440.0	1.37	47.6%
2460.0	1.43	45.5%
2480.0	0.42	43.2%
2500.0	1.22	42.8%
5150.0	0.48	31.3%
5200.0	0.67	34.7%
5250.0	0.42	37.0%
5300.0	0.64	38.7%
5350.0	0.57	39.9%

5400.0	0.24	34.3%
5450.0	0.52	37.8%
5500.0	0.17	32.1%
5550.0	0.29	33.2%
5600.0	0.87	36.9%
5650.0	0.30	36.3%
5700.0	0.24	33.4%
5750.0	0.30	31.5%
5800.0	0.21	35.8%
5850.0	0.68	39.8%

3. 4 3D方向图 3D Chart







4 工程图纸 Engineering drawings

