



深圳市博陆科电子科技有限公司

Shenzhen Boluke Electronic Technology Co., LTD

# 承认书

## APPROVAL BOOK

文件编号: BLK-QR-YF-016/A1

|                                             |                                                                                                                                                                                                                                                                |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  |                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| 产品描述<br>Part Description                    | 生产厂家:国质信<br>Vendor:<br>产品名称:FPC 天线<br>Product Name:<br>客户料号:ET.GZX12TKA18<br>CUSTOMER NO:                                                                                                                                                                      |  |  |              |  |  | 地址/联系人: 深圳市龙岗区平吉大道 66 号康利城 7 栋 103 号/牛兴刚<br>Address/Contact person:<br>规格型号/版本:NQI-P1201-BT-FB-V8<br>Description:<br>送样日期: 20230822<br>Send sample date: |  |  |  |  |  |                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| 附件<br>Attachments                           | <input checked="" type="checkbox"/> 规格书<br>Spec<br><input type="checkbox"/> CPK 报告<br>Cpk Report<br><input type="checkbox"/> 制程管制图<br>QC Flow Chart<br>* ROHS 限用物质成分调查表为所有物料必须提供                                                                               |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  | <input checked="" type="checkbox"/> 工程图面<br>Drawing<br><input checked="" type="checkbox"/> FAI 全尺寸报告<br>FAI Report<br><input type="checkbox"/> 材质证明书 |  |  |  |  |  |  |  |  |  |  |  | <input checked="" type="checkbox"/> 样品<br>Sample<br><input checked="" type="checkbox"/> 可靠性测试报告<br>Reliability Report<br><input checked="" type="checkbox"/> 包装方式 |  |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> RoHS 报告<br>RoHS Report<br><input type="checkbox"/> ROHS 限用物质成分调查表<br>RoHS Questionnaire<br><input type="checkbox"/> 安规报告<br>Safety Report |  |  |  |  |  |  |  |  |  |  |  |
| 供应商签核<br>Vendor                             | 拟制:<br>Design                                                                                                                                                                                                                                                  |  |  | 审核:<br>Check |  |  | 批准:<br>Approval                                                                                                                                          |  |  |  |  |  |                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| 承认条件:<br>Approvalcondition                  | <input type="checkbox"/> 承认<br>Approved<br><input type="checkbox"/> 条件承认<br>Condition Approved<br><input type="checkbox"/> 临时承认<br>Temporary Approved                                                                                                          |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  |                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> 拒绝承认<br>Reject<br>需满足条件: _____<br>限量_____Pcs 采购                                                                                          |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| 品质/工程确认<br>Quality/Engineering confirmation | 品质部:<br>Quality manager                                                                                                                                                                                                                                        |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  | 工程部:<br>Engineering manager                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| 研发/技术确认<br>Technology Check                 | <input type="checkbox"/> 电子<br>Electronic<br>确认:<br>Signature/Date                                                                                                                                                                                             |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  | <input type="checkbox"/> 结构<br>Mechanical<br>审核:<br>Checked/Date                                                                                     |  |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> 包材设计<br>Packaging design<br>批准:<br>Approved/Date                                                                                         |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| 分发部门<br>Distribute                          | <input type="checkbox"/> 电子<br><input type="checkbox"/> IQC<br><input type="checkbox"/> 结构<br><input type="checkbox"/> 采购<br><input type="checkbox"/> 包装设计<br><input type="checkbox"/> 供应商<br><input type="checkbox"/> 工程<br><input type="checkbox"/> 其他 _____ |  |  |              |  |  |                                                                                                                                                          |  |  |  |  |  |                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |

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网址: <http://www.bolutek.com>

# 样品承认书

## Parts Approval Sheet

|                 |                            |
|-----------------|----------------------------|
| 生产供应商: 国质信      | 物料名称: BT 天线                |
| Supplier        | Parts Name                 |
| 适用项目: P1201     | NQI 料号: NQI-P1201-BT-FB-V8 |
| Type/Spec       | Parts No                   |
| 品 牌: NQI        | 客户料号: ET.GZX12TKA18        |
| Brand           | Quantity                   |
| 送样日期: 2023/8/22 | 文件编号: NQI-RD-SPEC-20230810 |
| Send out Date   | Document No                |
| 承认日期:           | 样品版本: V8                   |
| Approve Date    | Version                    |

| Supplier    |             | Customer         |              |
|-------------|-------------|------------------|--------------|
| Approved By | Prepared By | Engineering Dept | Quality Dept |
|             |             |                  |              |

联系方式 (Contact) : 深圳市龙岗区平吉大道 66 号康利城 7 栋 103 号  
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Tel: +86-0755-28500656  
Fax: +86-0755-28700656



# 承认书履历表 (Admission resume)

[illegible]



## 目录 (catalogue)

|                                                         |       |
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一. 样品说明及装配方式 (Sample picture and description) :



| 电气参数说明 (Electrical Specifications)    |                         |
|---------------------------------------|-------------------------|
| 频率范围 (Frequency range)                | 2400-2500MHz            |
| 特性阻抗 (impedance)                      | 50 ohm                  |
| 电压驻波比 (VSWR)                          | $\leq 2.5$              |
| 峰值增益 (Gain)                           | 0.13dBi                 |
| 极化形式 (Polarization)                   | Horizontal polarization |
| 辐射方向 (Radiation direction)            | all-around              |
| 连接方式说明 (Connection Mode Description)  |                         |
| 连接器 (connector)                       | /                       |
| 线缆规格 (Cable specifications)           | /                       |
| 工作/储存温度 (Working/Storage temperature) |                         |
| 工作温度 (Working temperature)            | -30℃ ~ 65℃              |
| 储存温度 (Storage temperature)            | -30℃ ~ 75℃              |

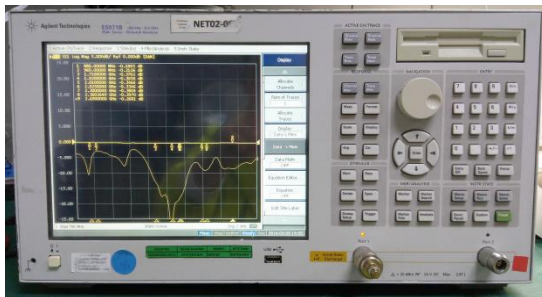
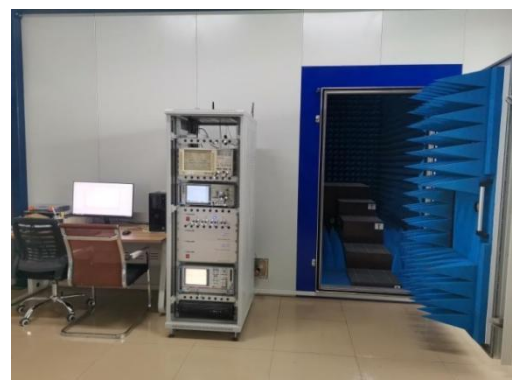
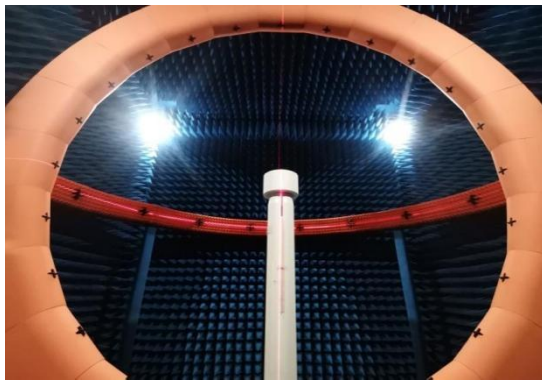
装配方式(Assembly mode):



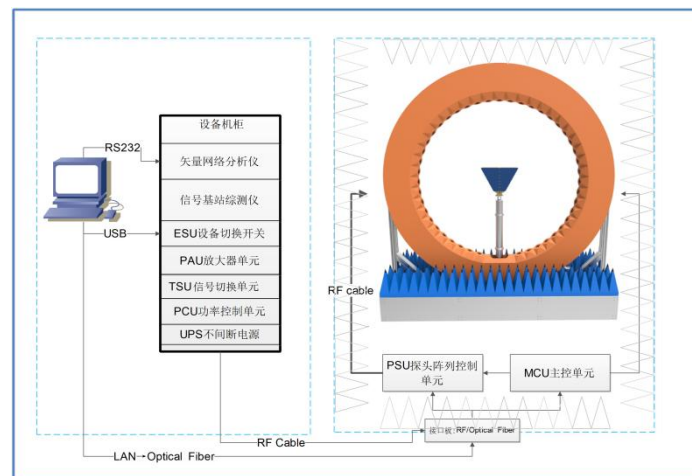


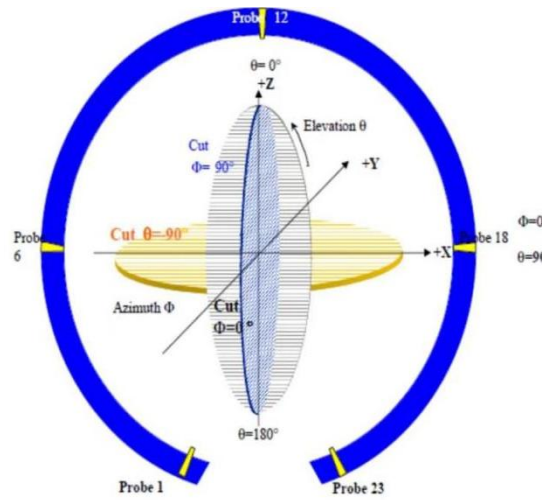
## 二. 测试设备及项目 (Test equipment and items) :

| 类别 (Class)                 | 测试项目 (Test item)                                                   | 设备 (Equipment)                                                                                                                                                                                                                         |
|----------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S parameter             | 1. 回波损耗(RL)<br>2. 驻波比 (VSWR)<br>3. 斯密斯原图(Smith chart)              | 网分 (VNA) : Agilent E5071B<br><br>R&S ZVB8<br><br>Protek A333                                                                                                                                                                           |
| 2. 耦合测试 (Coupling testing) | 1. 发射功率 (MAX Power)<br>2. 接收灵敏度 (MIN Sens)                         | 1. 2G/3G Tester: Agilent 8960<br>2. The coupling box: TESCOM TC-5060A<br>3. 3D Chamber: ETS 3D Chamber (5x3x3)                                                                                                                         |
| 3. 3D 无源测试 (Passive Test)  | 1. 效率 (Effeciency)<br>2. 增益 (Gain)<br>3. 辐射方向图 (Radiation pattern) | 1. 3D Chamber: TEM24 3D Chamber (5x5x5)<br><br>ETS 3D Chamber (5x3x3)<br>2. 网分 (VNA) : Agilent E5071B<br><br>R&S ZVB8                                                                                                                  |
| 4. 3D 有源测试 (Active Test)   | 1. 3D 功率 (TRP)<br>2. 3D 灵敏度 (TIS)<br>3. 吞吐率 (Throughput rate)      | 1. 3D Chamber: TEM24 3D Chamber (5x5x5)<br><br>ETS 3D Chamber (5x3x3)<br>2. 2G/3G Tester: Agilent 8960<br>3. 4G Tester: MT8820C/CMW500<br>4. WIFI/BT/NB-iot Tester: CMW500<br>5. 5G Tester: SP9500-CTS<br>6. Head: HEAD-P10 (FACE-P10) |

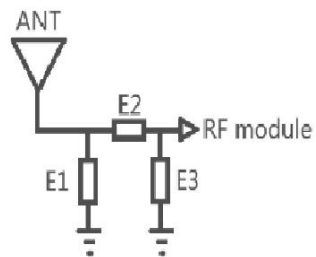


### 三. 暗室连接及坐标 (Chamber connection and coordinates ) :





#### 四. 天线匹配网络 (Antenna matching network) :



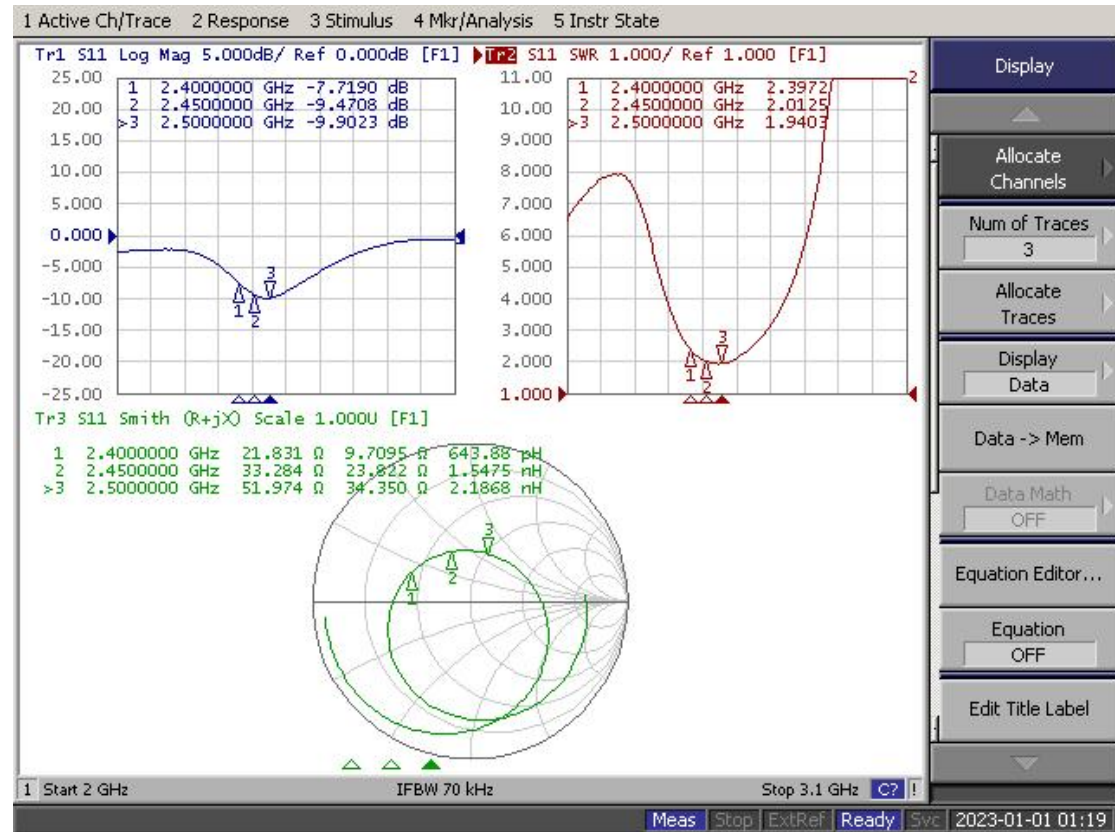
| Element  | L (Value)  | R (Value)  |
|----------|------------|------------|
| E1(0201) | NF         | NF         |
| E2(0201) | 0 $\Omega$ | 0 $\Omega$ |
| E3(0201) | NF         | NF         |



## 五. 天线电性能测试数据 (Antenna electrical performance test data) :

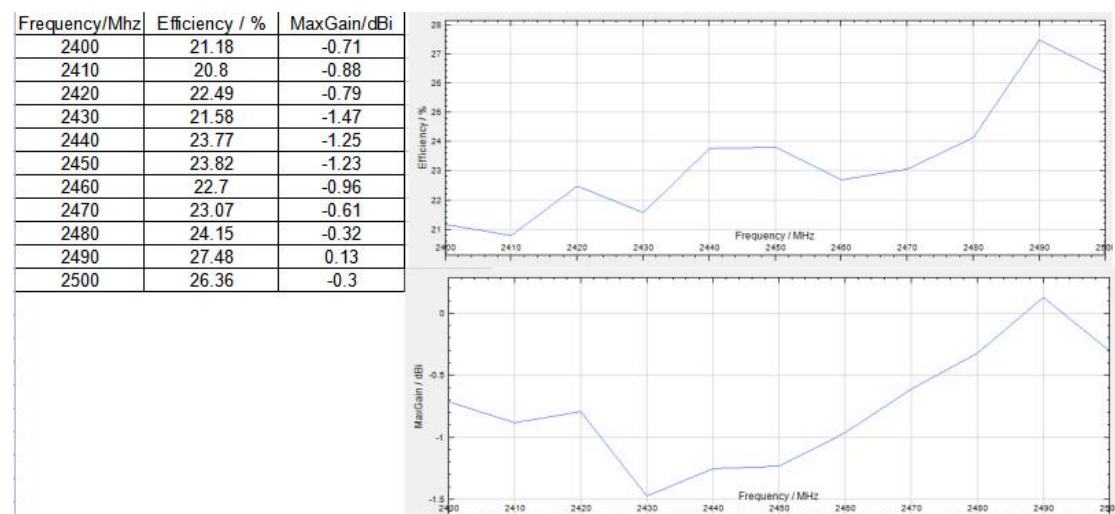
### 5. 1. 天线无源参数 (Antenna passive parameters)

#### 5.1.1. 天线回波损耗/驻波比/史密斯圆图 (RL/VSWR/Smith Chart)



## 5.2 效率&增益(Efficiency & Gain)

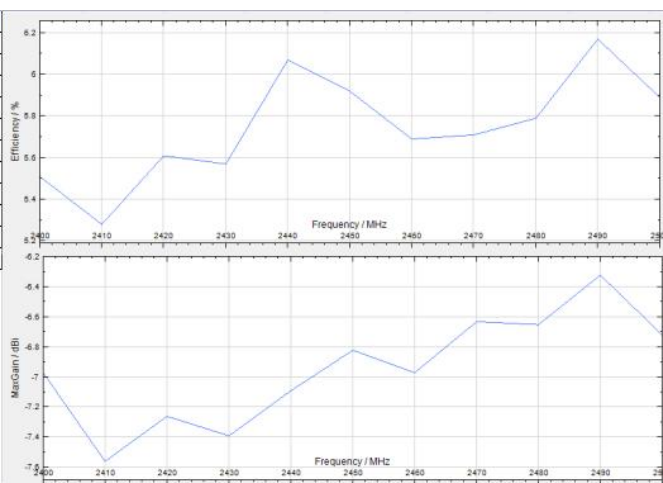
### 自由空间(free space)





## 二代头模 (Second generation head die)

| Frequency/Mhz | Efficiency / % | MaxGain/dBi |
|---------------|----------------|-------------|
| 2400          | 5.51           | -6.97       |
| 2410          | 5.28           | -7.56       |
| 2420          | 5.61           | -7.26       |
| 2430          | 5.57           | -7.39       |
| 2440          | 6.07           | -7.09       |
| 2450          | 5.92           | -6.82       |
| 2460          | 5.69           | -6.97       |
| 2470          | 5.71           | -6.63       |
| 2480          | 5.79           | -6.65       |
| 2490          | 6.17           | -6.32       |
| 2500          | 5.89           | -6.72       |

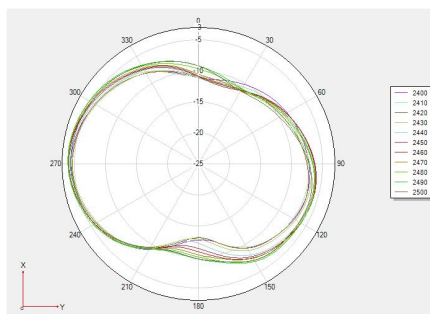
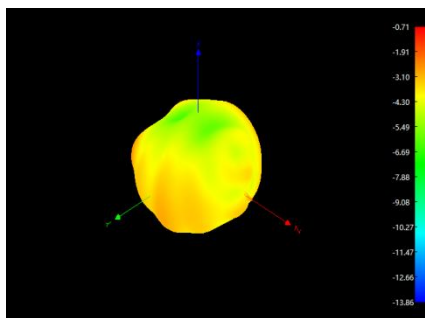


### 5.2.1 自由空间辐射方向图及苹果场强图

Free space radiation direction diagram and Apple field intensity diagram

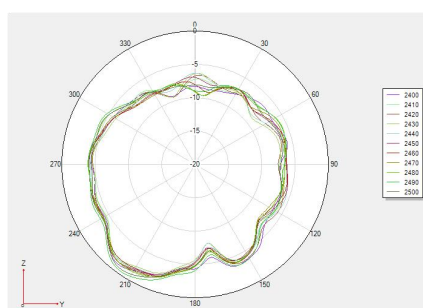
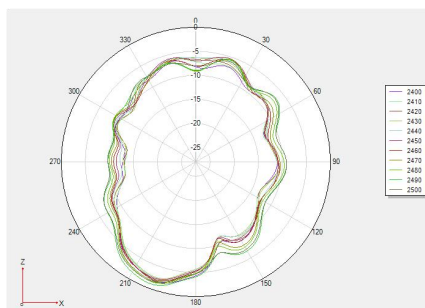
2400MHz

E1面 (XY平面)



E1面 (XZ平面)

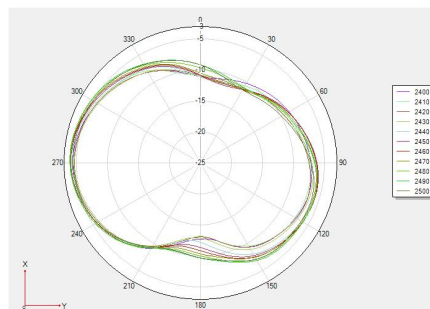
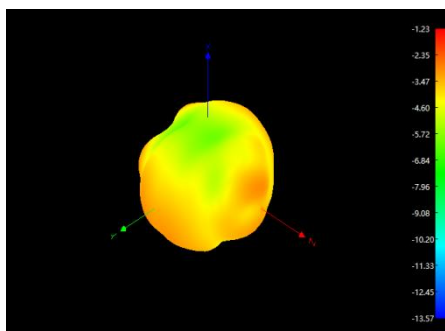
E2面 (YZ平面)





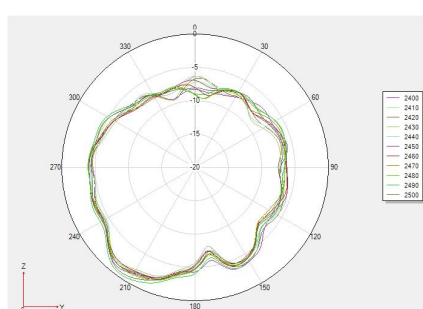
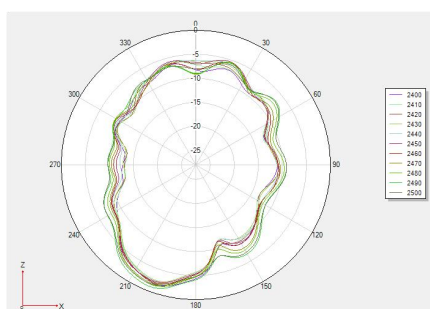
2450MHz

E1面 (XY平面)



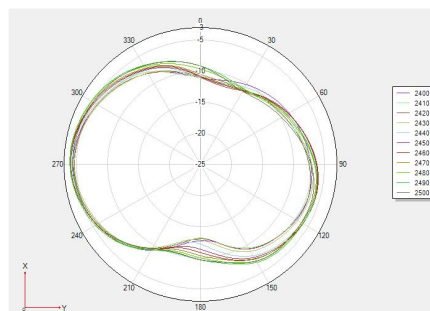
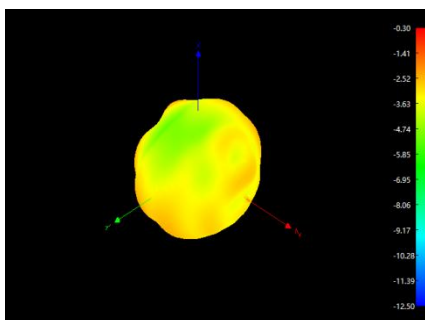
E1面 (XZ平面)

E2面 (YZ平面)



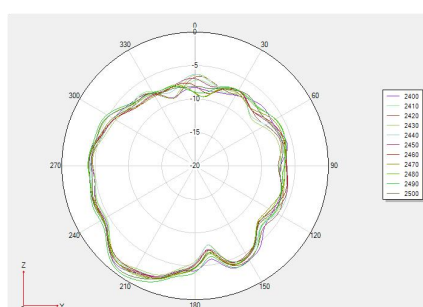
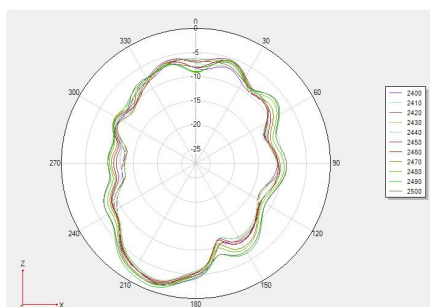
2500MHz

E1面 (XY平面)



E1面 (XZ平面)

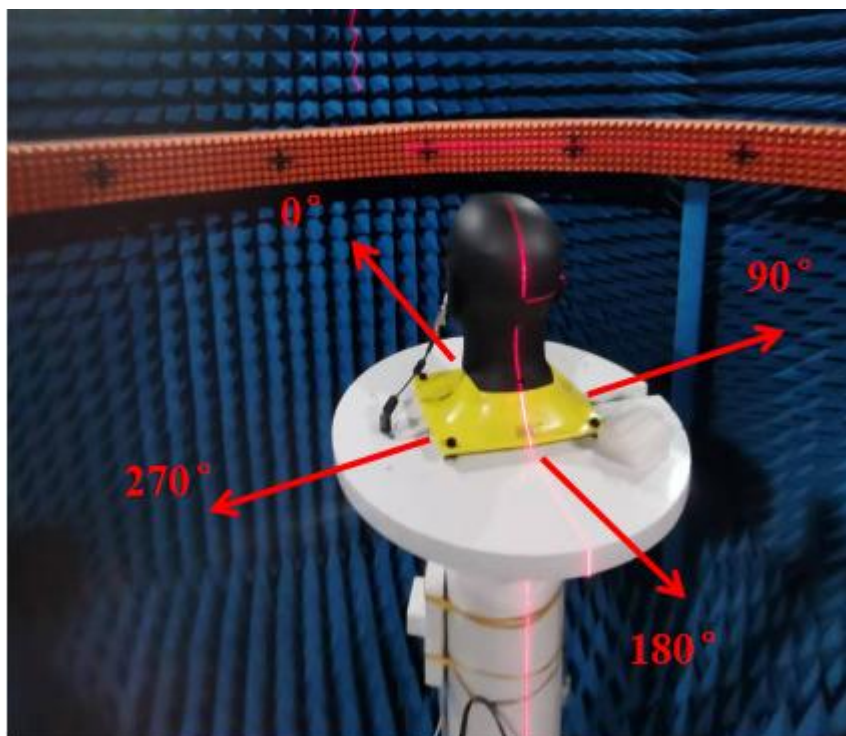
E2面 (YZ平面)





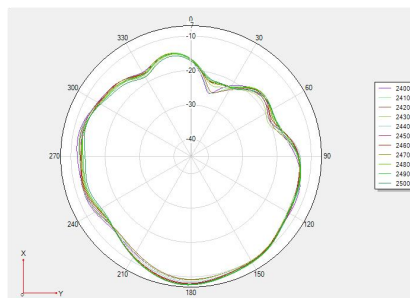
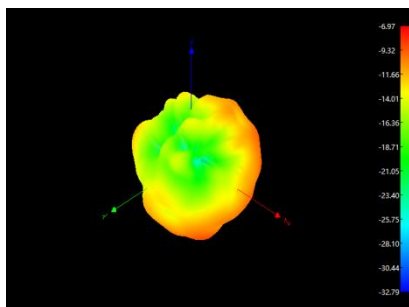
## 5.2.2 二代头耳模辐射方向图及苹果场强图

Radiation direction diagram of the second generation head-and-ear model and apple field intensity diagram



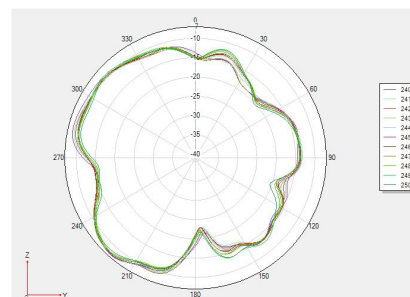
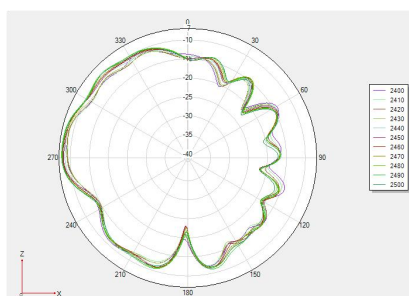
2400MHz

H面 (XY平面)



E1面 (XZ平面)

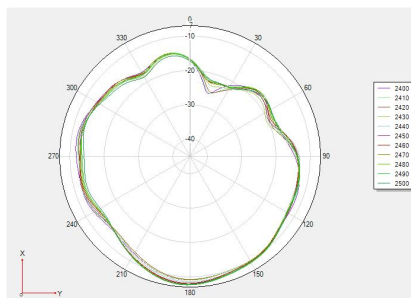
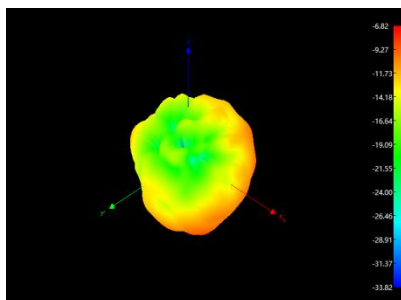
E2面 (YZ平面)





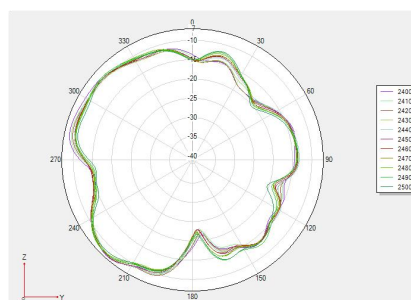
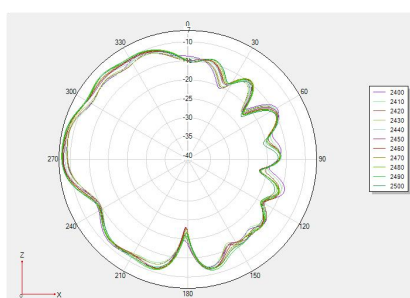
2450MHz

H面 (XY平面)



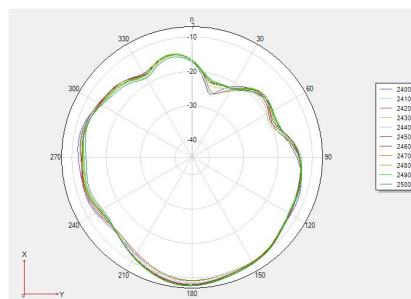
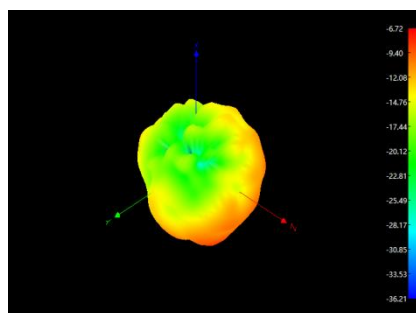
E1面 (XZ平面)

E2面 (YZ平面)



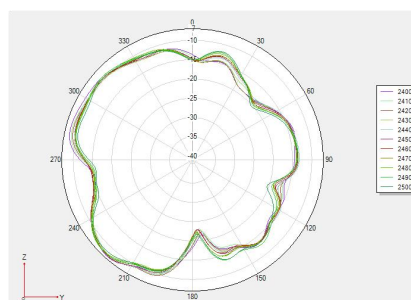
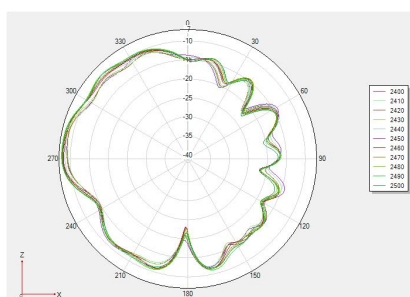
2500MHz

H面 (XY平面)



E1面 (XZ平面)

E2面 (YZ平面)





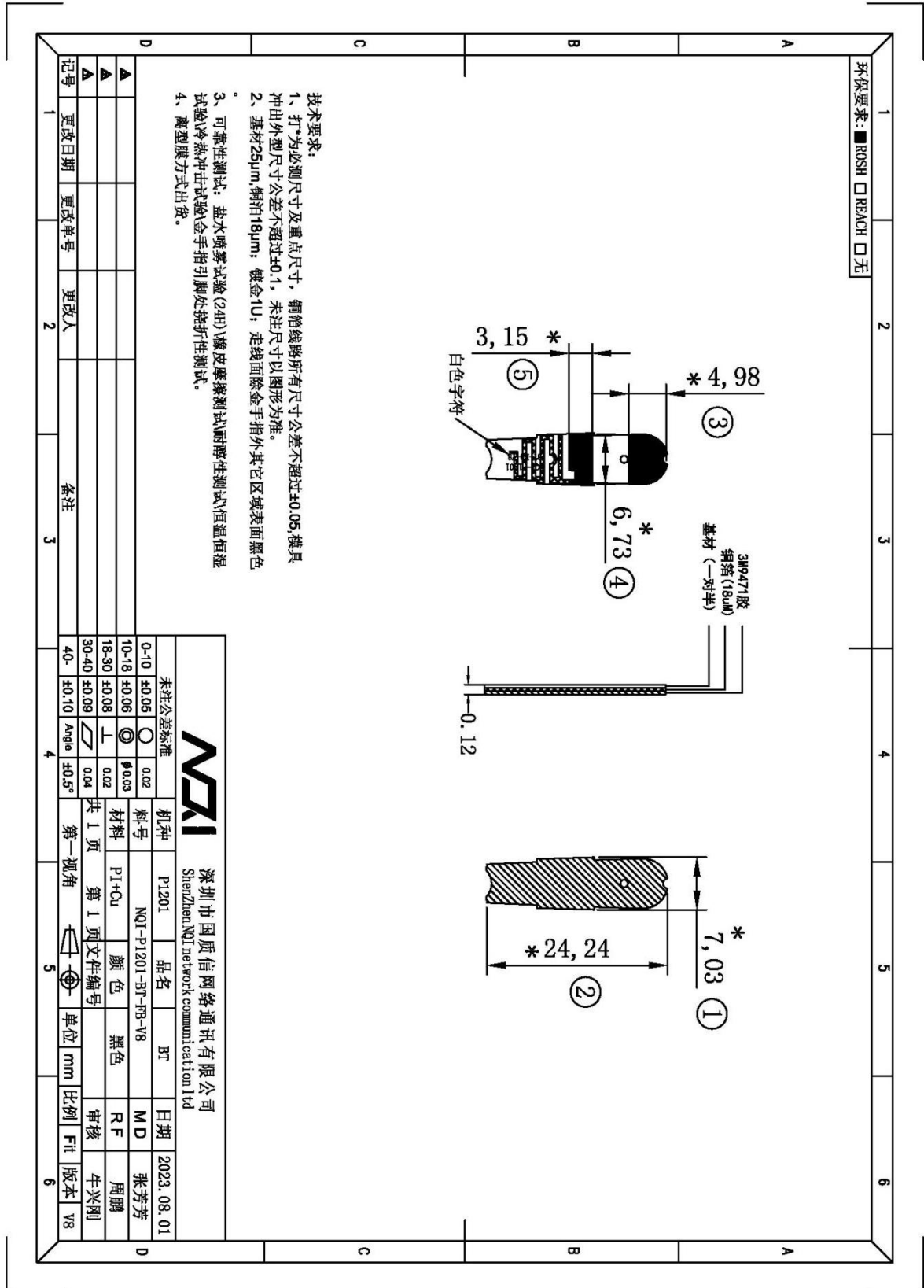
### 5.3.天线有源参数 ( Antenna Active parameter )

#### 5.3.1.TRP/TIS

| NQI ANT TRP&TIS parameter Summary of P1201 |           |               |        |        |
|--------------------------------------------|-----------|---------------|--------|--------|
| 自由空间                                       | Test      | Bluetooth TRP |        |        |
|                                            | Result    | 0             | 39     | 78     |
| L                                          | TRP (dBm) | 3.10          | 3.15   | 3.47   |
|                                            | TIS (dBm) | -83.53        | -83.42 | -83.11 |
| R                                          | TRP (dBm) | 3.09          | 3.19   | 3.35   |
|                                            | TIS (dBm) | -83.65        | -83.48 | -83.39 |
| NQI ANT TRP&TIS parameter Summary of P1201 |           |               |        |        |
| 二代头耳模                                      | Test      | Bluetooth TRP |        |        |
|                                            | Result    | 0             | 39     | 78     |
| L                                          | TRP (dBm) | -1.03         | -0.89  | -0.75  |
|                                            | TIS (dBm) | -78.84        | -78.69 | -78.79 |
| R                                          | TRP (dBm) | -1.21         | -0.55  | -0.39  |
|                                            | TIS (dBm) | -78.76        | -78.59 | -78.67 |



## 六、天线结构图纸 (Antenna structure drawing)





## 七、天线包装图纸 (Antenna package drawing) :

包装作业指导书

|                                      |             |                  |       |        |      |
|--------------------------------------|-------------|------------------|-------|--------|------|
| 工程名称: PC S检验包装                       | 产品编号: P1201 | 生效时间: 2023.08.21 | 版本: A |        |      |
| 产品名称: BT                             | 文件编号: /     | 页码: 第1页 共1页      |       |        |      |
| 使用物料:                                |             |                  |       |        |      |
| NO                                   | PART NUMBER | PART NAME        | Q'TY  | VENDER | NOTE |
| 1                                    | 196         | BT               | /     | YG     | /    |
| 使用工具、设备:                             |             |                  |       |        |      |
| 手套套                                  |             |                  |       |        |      |
| 操作步骤:                                |             |                  |       |        |      |
| 1: 检查产品外观是否平整, 有无脏污、划痕、漏铜、印刷不良等不良现象。 |             |                  |       |        |      |
| 2: 重点尺寸检查 (见工程图)                     |             |                  |       |        |      |
| 3: 产品按规律整齐摆放在PE袋里; 若发现不良品需挑去不良品;     |             |                  |       |        |      |
| 4: 随产出货需装箱, 贴上手贴标签; 要求标签位置一致。        |             |                  |       |        |      |
| 注意事项:                                |             |                  |       |        |      |
| 1: 外观检查时严禁有新面、断裂、漏铜、镀金不良、严重尺寸问题;     |             |                  |       |        |      |
| 2: 每款产品对应的料号、数量必须明确;                 |             |                  |       |        |      |
| 编制:                                  | 何萃          | 审核:              | 何超    | 批准:    | 杨小银  |

## 八、重点尺寸检验报告:

| 尺寸检验报告                                                                                                                                       |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------|-------|--------------------------------|-------|-------|------|----|
| 客户                                                                                                                                           | 博陆科                                                                                                                                                                               |           | 项目                                       |       | P1201                          |       |       |      |    |
| 材质                                                                                                                                           | FPC                                                                                                                                                                               |           | 环保材料 <input checked="" type="checkbox"/> |       | 非环保材料 <input type="checkbox"/> |       |       |      |    |
| 外观检查项目                                                                                                                                       | <input type="checkbox"/> 漏漆 <input type="checkbox"/> 断线 <input type="checkbox"/> 短路 <input type="checkbox"/> 划伤 <input type="checkbox"/> 脏污 <input type="checkbox"/> 开裂 (漏加工)     |           |                                          |       |                                |       |       |      |    |
|                                                                                                                                              | 不良数: 0 轻微 <input checked="" type="checkbox"/> 严重 <input type="checkbox"/> 致命 <input type="checkbox"/> 外观判定结果: 合格 <input checked="" type="checkbox"/> 不合格 <input type="checkbox"/> |           |                                          |       |                                |       |       |      |    |
| 功能或尺寸检查记录                                                                                                                                    |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| NO                                                                                                                                           | 检查序号                                                                                                                                                                              | 尺寸公差      | 检查结果                                     |       |                                |       |       | 检测仪器 | 判定 |
|                                                                                                                                              |                                                                                                                                                                                   |           | 1                                        | 2     | 3                              | 4     | 5     |      |    |
| FPC                                                                                                                                          | 1                                                                                                                                                                                 | 7.03±0.2  | 7.04                                     | 7.05  | 7.06                           | 7.02  | 7.01  | DN   | OK |
|                                                                                                                                              | 2                                                                                                                                                                                 | 24.24±0.2 | 24.25                                    | 24.26 | 24.27                          | 24.23 | 24.22 | DN   | OK |
|                                                                                                                                              | 3                                                                                                                                                                                 | 4.98±0.2  | 4.99                                     | 4.98  | 4.97                           | 5.01  | 5.02  | DN   | OK |
|                                                                                                                                              | 4                                                                                                                                                                                 | 6.73±0.2  | 6.74                                     | 6.75  | 6.76                           | 6.72  | 6.71  | DN   | OK |
|                                                                                                                                              | 5                                                                                                                                                                                 | 3.15±0.2  | 3.16                                     | 3.17  | 3.18                           | 3.14  | 3.13  | DN   | OK |
| 总体判定: 合格 <input checked="" type="checkbox"/> 不合格 <input type="checkbox"/> 不合格处理方式: 返工 <input type="checkbox"/> 特采使用 <input type="checkbox"/> |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| 计量仪器代号说明: 投影仪-PP 塞规-PG 高度规-HG 角度规-AG 游标卡尺-N 数显卡尺-DN 外径千分尺-M                                                                                  |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| 三坐标-3D 螺纹规-SG 专用治具-SE 目视-E                                                                                                                   |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| 备注:                                                                                                                                          |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| 测定人: 李辉                                                                                                                                      |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |
| 深圳市国质信网络通讯有限公司                                                                                                                               |                                                                                                                                                                                   |           |                                          |       |                                |       |       |      |    |

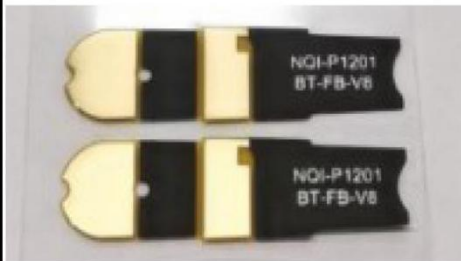
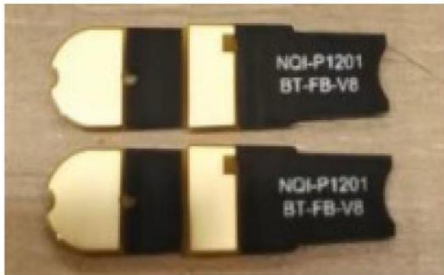


## 九、环境及可靠性试验：

### 9.1.1.盐雾测试报告

## 深圳市国质信网络通讯有限公司

### 盐雾测试报告

|                                                                                     |                                                            |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------|-----------|--|--|--|--|--|--|
| 产品名称<br>Product name                                                                | P1201                                                      | 样品数量<br>Sample Q'ty                                                                  | 2PCS               | 测试日期<br>Test date                                       | 2023/8/21 |  |  |  |  |  |  |
| 客户名称<br>Customer                                                                    | 博陆科                                                        | 产品料号<br>Part/No.                                                                     | NQI-P1201-BT-FB-V8 | 产品规格<br>Product spec.                                   | FPC       |  |  |  |  |  |  |
| 试验时间 Test time                                                                      | ≤8H ≤12H ≤24H <input checked="" type="checkbox"/> 48H ≤72H |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
| 测试项目<br>Test Item                                                                   | 盐水喷雾试验<br>Salt spray test                                  |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
| 测试要求 Test Requirement                                                               |                                                            |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
| 条件项目<br>Condition items                                                             |                                                            | 设置<br>Setting                                                                        |                    | 参考标准<br>Reference                                       |           |  |  |  |  |  |  |
| 盐水浓度 Concentration of salt solution                                                 |                                                            | 5±1%                                                                                 |                    | GB/T10125-1997                                          |           |  |  |  |  |  |  |
| PH值 PH of salt solution                                                             |                                                            | 6.5-7.2                                                                              |                    |                                                         |           |  |  |  |  |  |  |
| 试验室温度 Test room Temperature                                                         |                                                            | 35±2℃                                                                                |                    |                                                         |           |  |  |  |  |  |  |
| 盐水桶温度 Salt solution barrel temperature                                              |                                                            | 35±2℃                                                                                |                    |                                                         |           |  |  |  |  |  |  |
| 饱和压力桶温度 Saturated air barrel temperature                                            |                                                            | 47±1℃                                                                                |                    |                                                         |           |  |  |  |  |  |  |
| 试验室相对湿度 Test room relative humidity                                                 |                                                            | 85±2%RH                                                                              |                    |                                                         |           |  |  |  |  |  |  |
| 压缩空气压力 Pressure of compressed air                                                   |                                                            | 1.00±0.01KG/CM <sup>2</sup>                                                          |                    |                                                         |           |  |  |  |  |  |  |
| 样品放置角度 Sample place angle                                                           |                                                            | 15-30°                                                                               |                    |                                                         |           |  |  |  |  |  |  |
| 盐雾收集量 Collected volume of salt spray                                                |                                                            | 1.0-2.0ml (80cm <sup>2</sup> /H)                                                     |                    |                                                         |           |  |  |  |  |  |  |
| 试验结果 Result of measurement                                                          |                                                            |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
| 1. 测试图示方法 Test diagram & test method                                                |                                                            |                                                                                      |                    |                                                         |           |  |  |  |  |  |  |
| 试验前样板                                                                               |                                                            | 试验后样板                                                                                |                    | 结果判定                                                    |           |  |  |  |  |  |  |
|  |                                                            |  |                    | <input checked="" type="checkbox"/> 合格<br>≤ 不合格<br>≤ 特采 |           |  |  |  |  |  |  |

受控表单：NQI-ST-01

制作 Producer:张芳芳

审核 Checked:周鹏

核准 Approval:

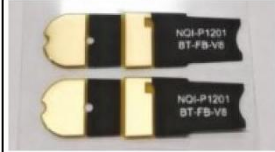
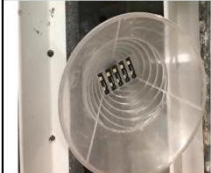
牛兴刚



### 9.1.2.低温储存试验

| 深圳市国质信网络通讯有限公司                                                                                 |              |                  |                          |
|------------------------------------------------------------------------------------------------|--------------|------------------|--------------------------|
| 低温储存试验报告                                                                                       |              |                  |                          |
| 报告日期 2023年08月21日                                                                               |              | 报告编号: 20220115-1 |                          |
| 产品名称                                                                                           | P1201天线      | 料号               | NQI-P1201-BT-FB-V8       |
| PART NAME ATION                                                                                |              | CUSTOMER P/N     |                          |
| 客户                                                                                             | 博陆科          | 试验数量             | 2PCS                     |
| CUSTOMER                                                                                       |              | CHECK QTY        |                          |
| 测试标准                                                                                           | 企业标准         | 测试时间             | 2023/08/17<br>2023/08/19 |
| TEST STANDARD                                                                                  |              | THE TEST OF TIME |                          |
| <b>一. 试验条件/方法</b><br>在温度为-40±3℃, 条件下放置48小时; 取出样品后常温放置2小时检查判定。                                  |              |                  |                          |
| <b>二. 判定标准</b><br>试验后, 满足如下要求, 即为合格:<br>1. FPC外观无变色、起泡、油墨脱落、变形, 胶粘度不变;<br>2. 电压驻波比 (VSWR) 测试合格 |              |                  |                          |
| <b>三. 试验结果</b><br><br>检验结果描述<br><br>1. 样品整体外观良好, FPC外观无变色、起泡、涂层脱落、变形;<br>2. 测试波形与封样一致。         |              |                  |                          |
| 最终判定                                                                                           | ■ 合格<br>PASS |                  | □ 不合格<br>REJECT          |
| FINAL RESULT                                                                                   |              |                  |                          |
| 检验员                                                                                            | 卢泳秀          | 审核               | 陈义才                      |
| INSPECTOR                                                                                      |              | CHECKED BY       |                          |

表单编号: WI-QC-036/B01/A0

| 四. 试验照片                                                                             |                                                                                      |         |           |           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|-----------|-----------|
| 1. 试验前样品                                                                            | 2. 试验照片                                                                              |         |           |           |
|  |  |         |           |           |
| 3. 试验图示                                                                             | 4. 试验后样品图示                                                                           |         |           |           |
|  |  |         |           |           |
| <b>五. 试验涉及设备信息</b>                                                                  |                                                                                      |         |           |           |
| 序号                                                                                  | 设备名称                                                                                 | 规格型号    | 校准日期      | 下次校准时间    |
| 1                                                                                   | 程式恒温恒湿箱                                                                              | LK-150G | 2023.1.26 | 2024.1.25 |

报告完结