



深圳市安特通讯科技有限公司

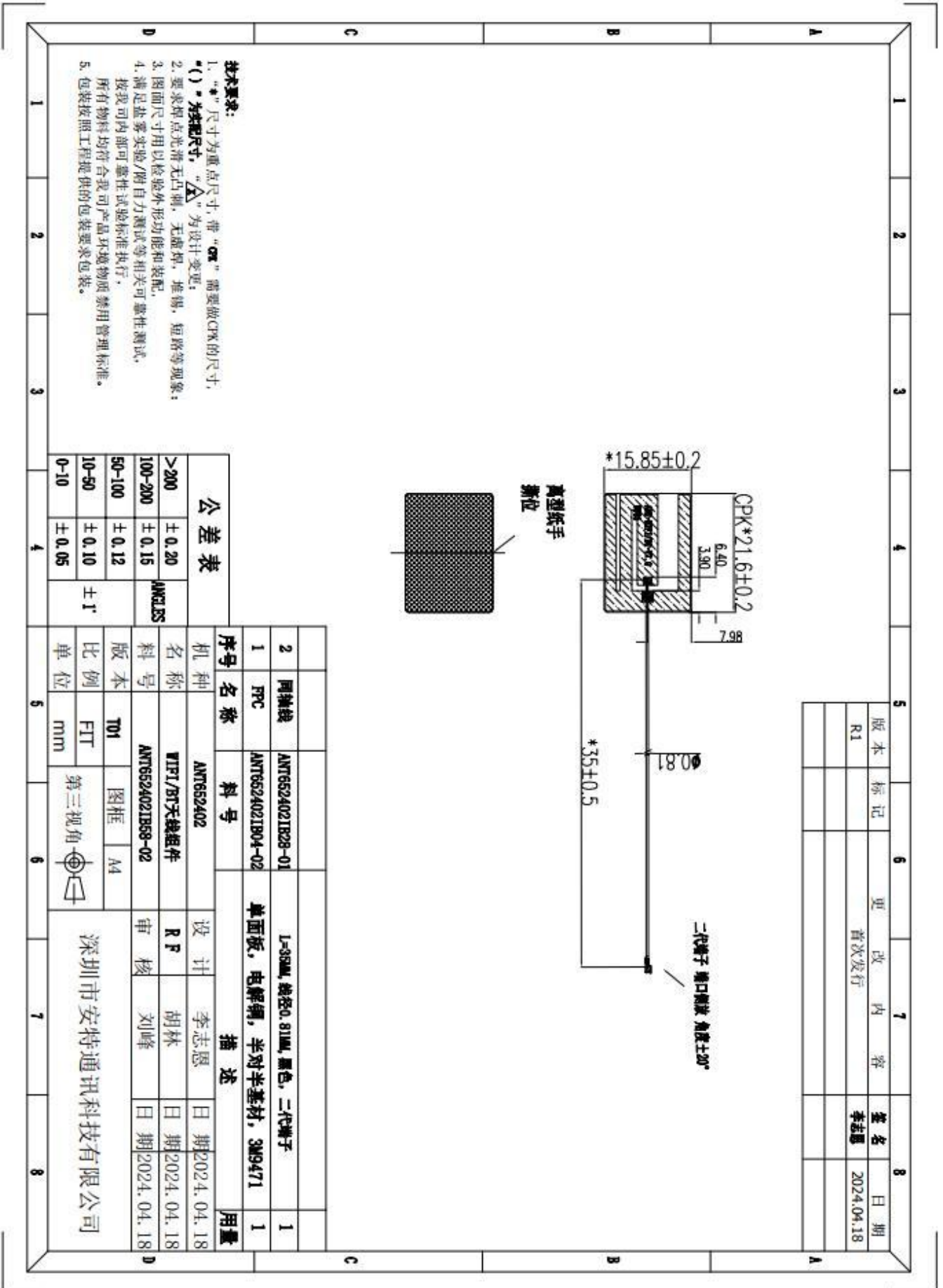
Shenzhen ANT Communication Technology Co., LTD.

Product specification sheet

| | | | |
|----------------------|--------------|-------------|---|
| customer | 虎一 | project | WT05 |
| Customer part number | 305160007-01 | Part number | ANT652402IB58-02 |
| version | V2.0 | describe | WT05-WIFI&BT 天线, FPC, 黑色, 二代端子, 0.81 线径, L=35MM |
| RF | HULIN | ME | LIZHIEN |
| technical manager | LIUFENG | date | 2024/4/22 |

| | |
|---|--|
| customer confirmation | |
| Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG | |

1. Structural drawing file



| 尺寸范围 | 公差 | 公差带 |
|---------|--------|-------|
| >200 | ± 0.20 | MVELS |
| 100-200 | ± 0.15 | |
| 50-100 | ± 0.12 | |
| 10-50 | ± 0.10 | |
| 0-10 | ± 0.05 | ± 1' |

| 序号 | 名称 | 料号 | 描述 | 用量 |
|----|-----|------------------|----------------------------|----|
| 1 | PCB | ANT6524021B04-02 | 单面板, 电解铜, 半对半基材, 3M9471 | 1 |
| 2 | 同轴线 | ANT6524021B28-01 | L=35MM, 线径0.81MM, 黑色, 二代端子 | 1 |

| 机种 | 名称 | 料号 | 版本 | 比例 | 单位 |
|-----------|-------------|------------------|-----|-----|----|
| ANT652402 | WiFi/BT天线组件 | ANT6524021B58-02 | T01 | FIT | mm |

图框 A4
第三视角

设计: 李志恩 日期: 2024.04.18
 审核: 胡林 日期: 2024.04.18
 审核: 刘峰 日期: 2024.04.18

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| 版本 | 标记 | 更改内容 | 签名 | 日期 |
|----|----|------|-----|------------|
| R1 | | 首次发行 | 李志恩 | 2024.04.18 |

2. Product specifications and technical parameters:

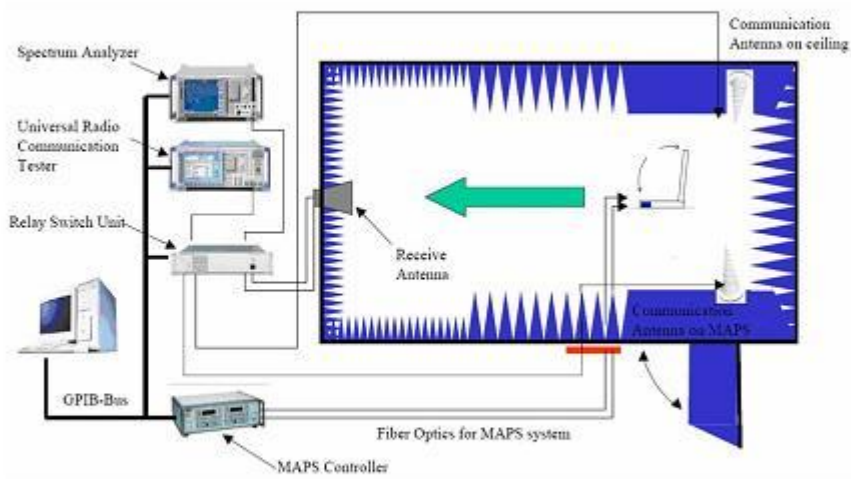
| Electrical performance parameters | |
|-----------------------------------|-----------------------------|
| Frequency range | 2400-2500MHZ |
| Impedance | 50 Ω |
| standing-wave ratio | ≤2.5 |
| Maximum gain | 2.81dBi |
| efficiency | >25% |
| Polarization mode | vertical |
| Radiation direction | Omnidirectional |
| mechanical parameters | |
| Antenna size | 21.6*15.85MM |
| Coaxial line type | Φ0.81 |
| Joint type | Second generation terminals |
| Salt spray test | 24H |
| Environmental parameters | |
| operation temperature | -45℃---+85℃ |

3. Test equipment

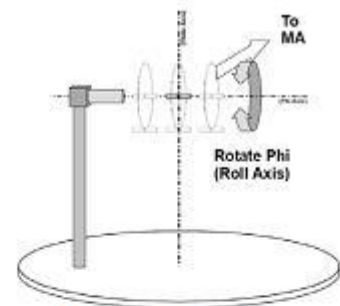
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

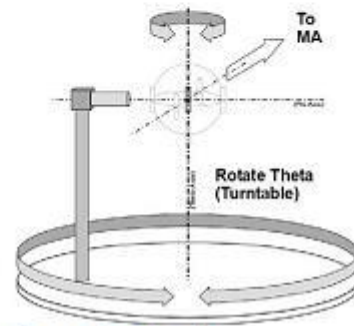
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



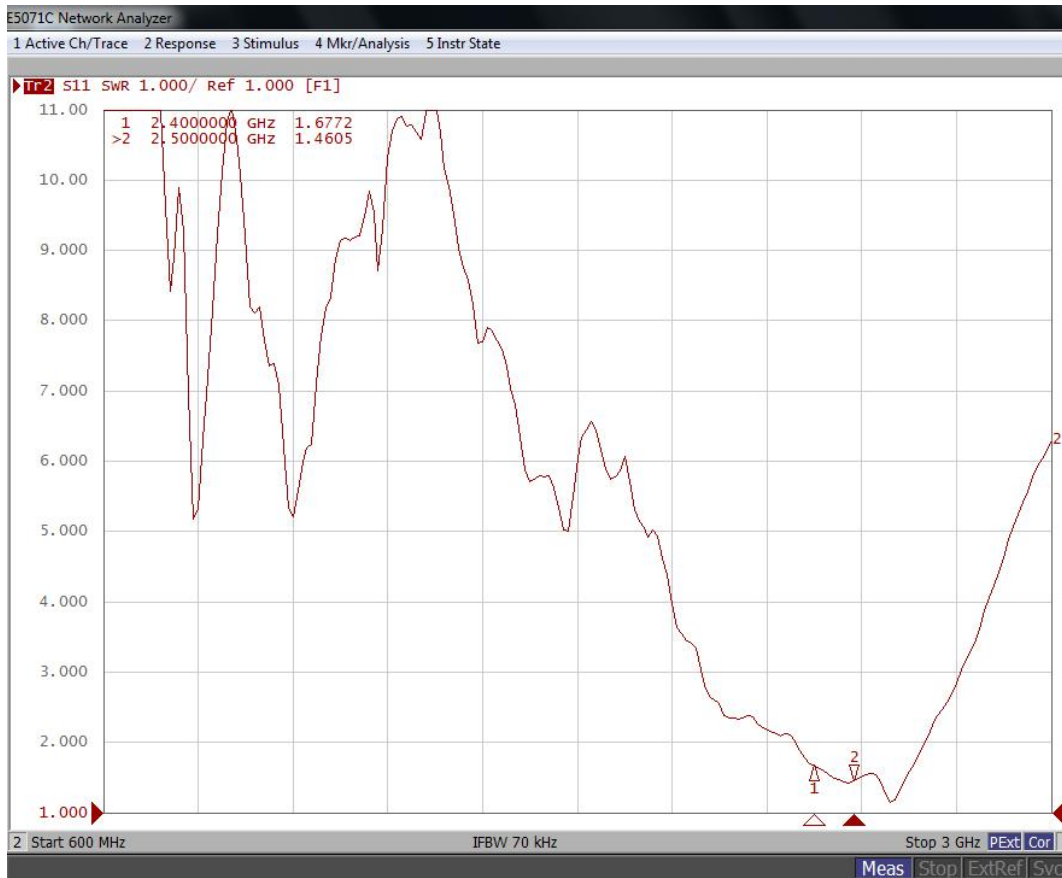
Phi axis test



Theta axis test

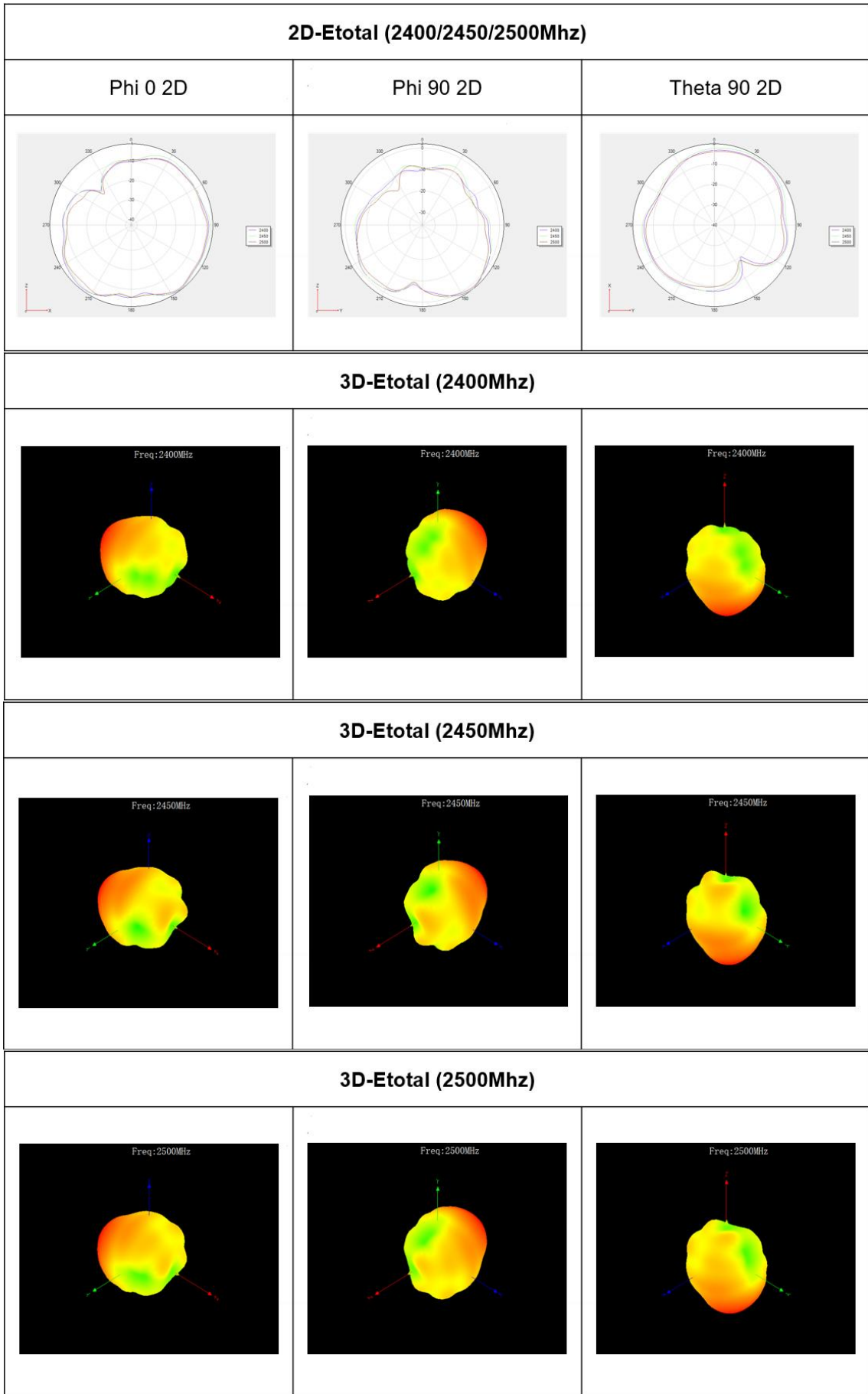
4. Antenna testing parameters

S11



| Passive Test | | | |
|----------------|----------------|---------------|--------------|
| Frequency /Mhz | Efficiency/ dB | Efficiency/ % | MaxGain/ dBi |
| 2400 | -4.1 | 38.6 | 1.62 |
| 2410 | -4 | 39.5 | 1.69 |
| 2420 | -3.9 | 40.6 | 1.75 |
| 2430 | -3.8 | 41.2 | 1.78 |
| 2440 | -3.7 | 42.1 | 2.08 |
| 2450 | -3.7 | 42.5 | 2.21 |
| 2460 | -3.7 | 41.9 | 2.26 |
| 2470 | -3.8 | 41.4 | 2.47 |
| 2480 | -3.8 | 40.8 | 2.62 |
| 2490 | -4 | 39.7 | 2.78 |
| 2500 | -4 | 39.4 | 2.81 |

深圳市安特通讯科技有限公司规格书



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