

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A1)

|  |                |                  |  |
|--|----------------|------------------|--|
|  | CUSTOMER(客户名称) | 高盛达              |  |
|  | CS P/N(客户机种)   | WXT2J            |  |
|  | PART NAME(品名)  | WIFI-1 天线        |  |
|  | FREQUENCY(频率)  | 2.4GHz+5GHz+6GHz |  |
|  | ZTX NO.(物料编号)  | 1.01.01982       |  |
|  | DATE(日期)       | 2021-09-02       |  |

| CUSTOMER      |               |               |                    |
|---------------|---------------|---------------|--------------------|
| QA<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | MANAGER<br>CHECKED |
|               |               |               |                    |

Remark(备注):

Sign(客户确认签字盖章): \_\_\_\_\_

| ZHONG TIAN XUN TECHNOLOGY CO., LTD |                    |               |               |        |
|------------------------------------|--------------------|---------------|---------------|--------|
| MANAGER<br>CHECKED                 | MANAGER<br>CHECKED | ME<br>CHECKED | RF<br>CHECKED | LISTER |
|                                    |                    | 邹一麟           | 赵烽            |        |



深圳市中天迅通信科技股份有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

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电话: 0755-27588320 传真: 0755-27588045 <http://www.chinaztx.com>

# ANTENNA SPECIFICATION

CUS P/N :WXT2J WIFI-1 天线

ApplicationDate:Sep,02,2021

Rev: R:A1

ZTX P/N :WXT2J WIFI-1 天线

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## Revision history

| 版本 | 日期         | 状态 |
|----|------------|----|
| A1 | 2021-09-02 | 首版 |
|    |            |    |
|    |            |    |
|    |            |    |



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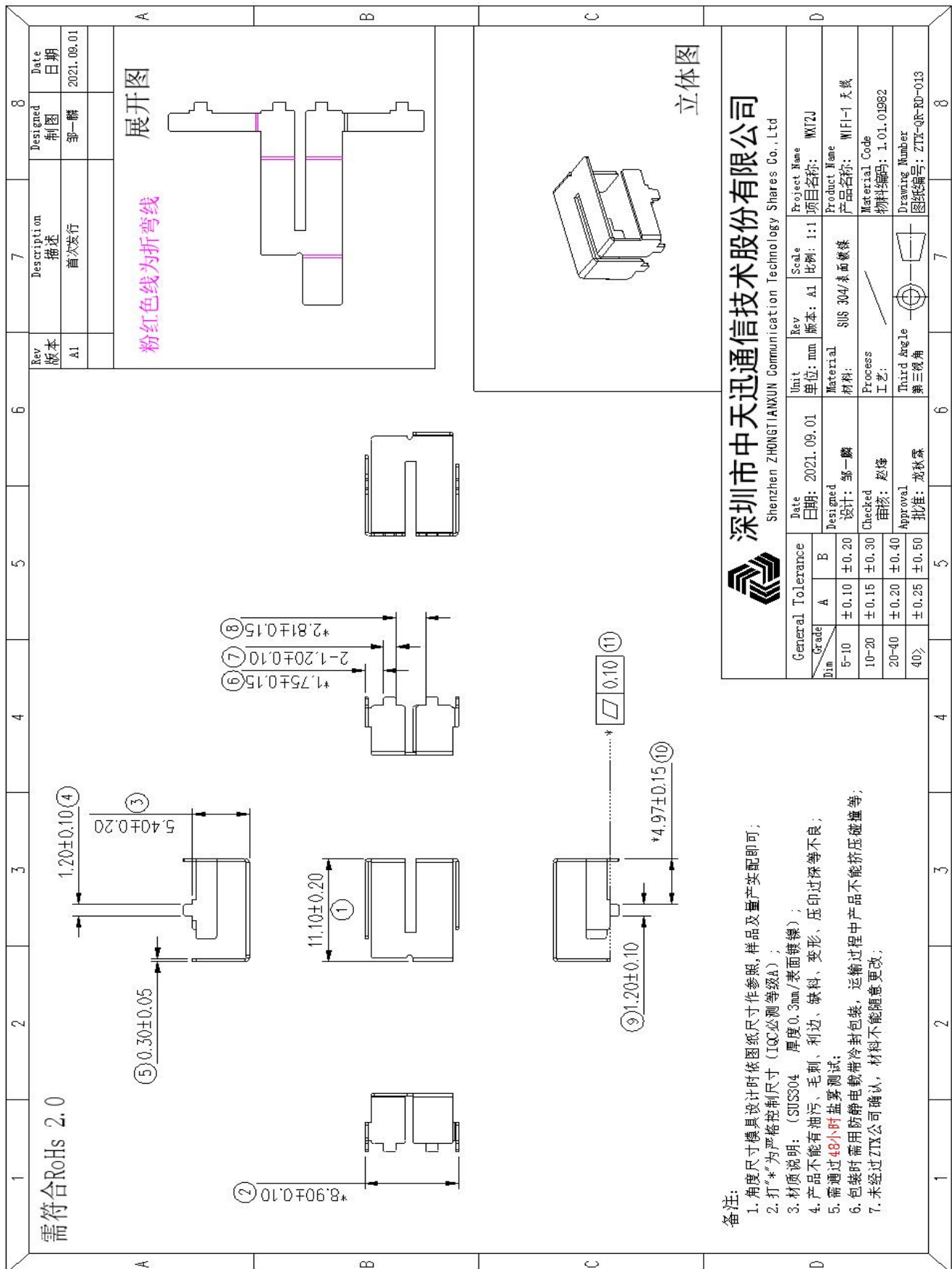
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## 1. Mechanical Specification

### 1-1 Mechanical Configuration( WIFI-1 天线)



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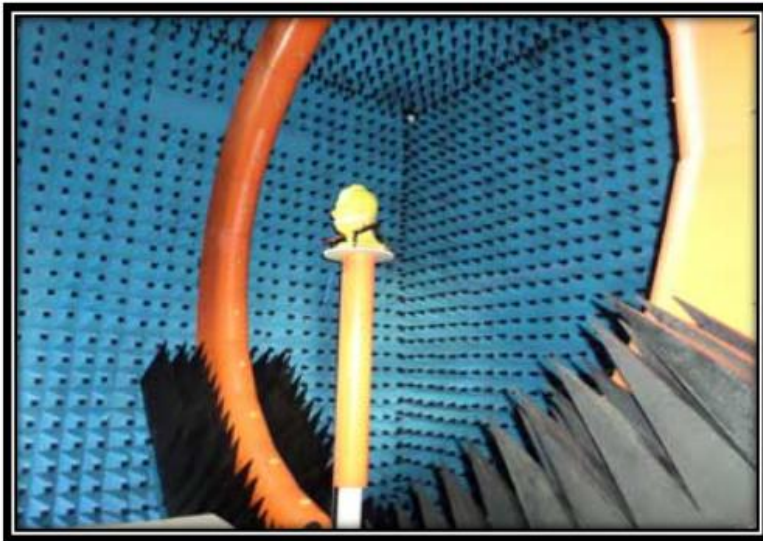
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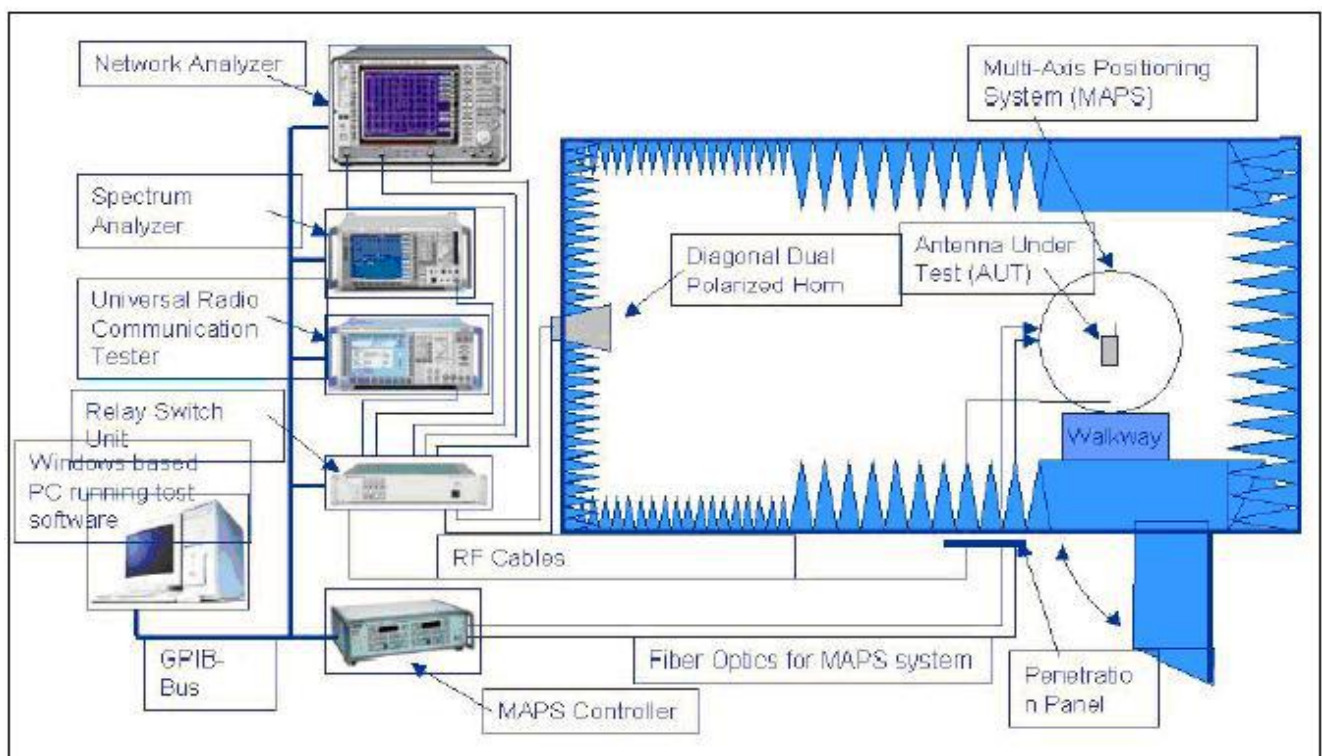
## 2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of  
GSM/CDMA/WCDMA/TD-  
SCDMA/LTE/WIFI/WLAN/WiMax/BT  
/GPS/MIMO/UWB within 0.4-6G.



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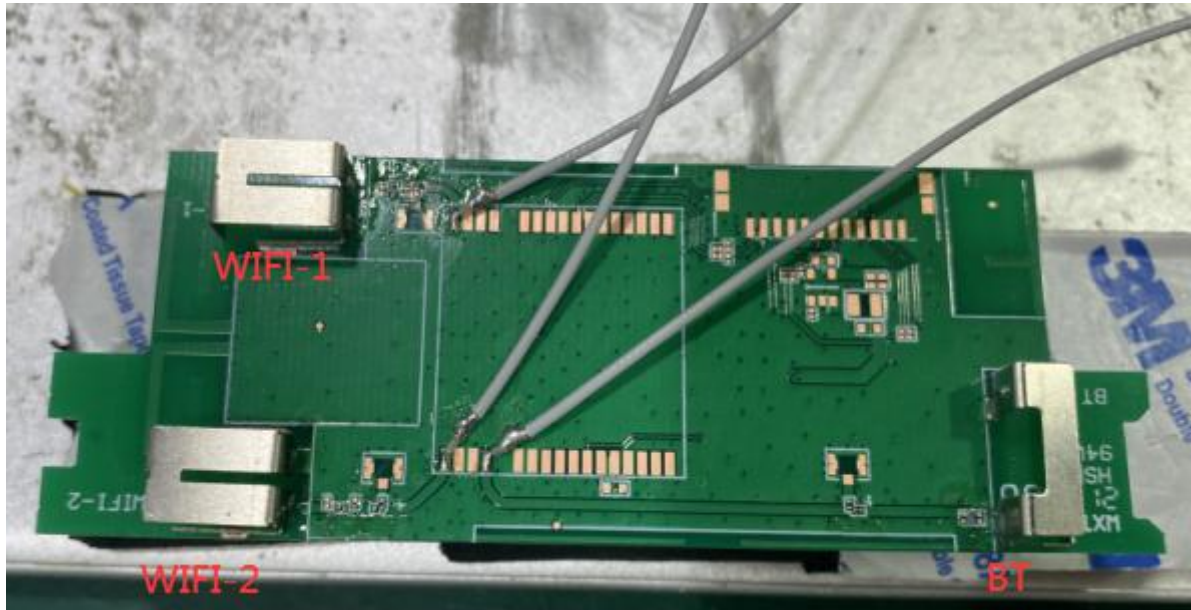
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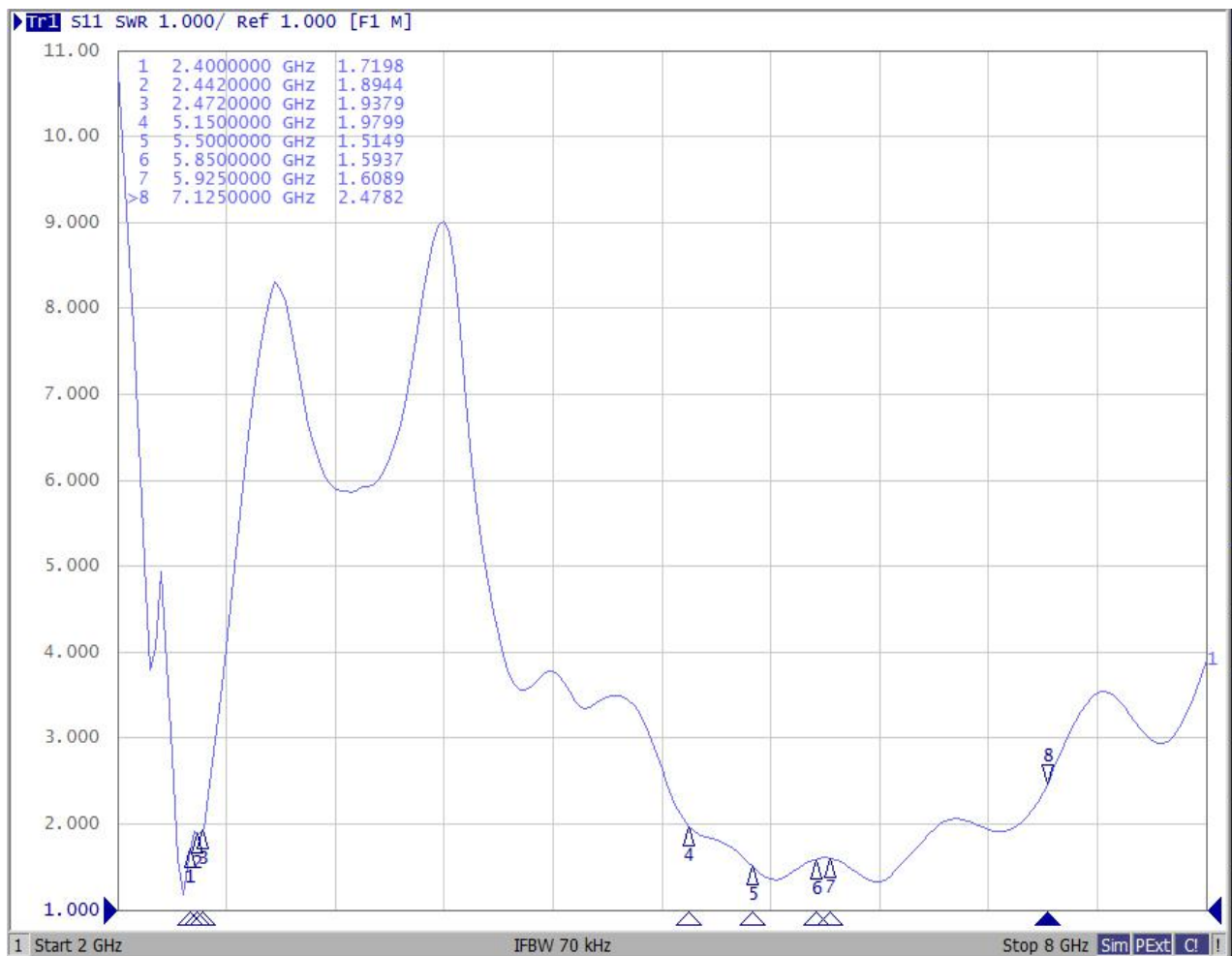
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## 3.Product figure



## 4.Antenna test data

### 4-1 VSWR



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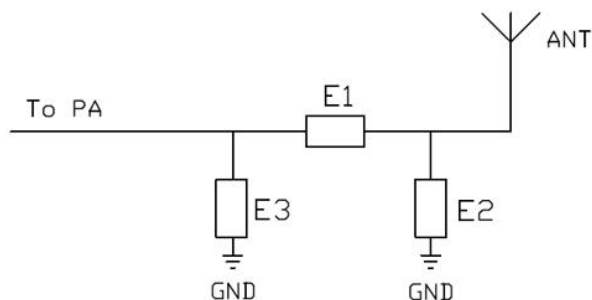
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## 4-2 Matching circuit



| 匹配说明 | WIFI-1 | WIFI-2 | BT    |
|------|--------|--------|-------|
| E1   | 0欧姆    | 0欧姆    | 3.3nH |
| E2   | NC     | NC     | NC    |
| E3   | NC     | NC     | NC    |

## 4-3 No-source test data

| Frequency | Peak Gain | Efficiency |       |
|-----------|-----------|------------|-------|
| Mhz       | dB        | %          | dB    |
| 2400      | 4.98      | 46.00      | -3.37 |
| 2410      | 4.80      | 45.22      | -3.45 |
| 2420      | 4.83      | 45.59      | -3.41 |
| 2430      | 4.80      | 46.78      | -3.30 |
| 2440      | 4.69      | 45.94      | -3.38 |
| 2450      | 4.47      | 45.58      | -3.41 |
| 2460      | 4.25      | 44.65      | -3.50 |
| 2470      | 4.03      | 44.46      | -3.52 |
| 2480      | 3.91      | 43.71      | -3.59 |
| 2490      | 4.04      | 43.59      | -3.61 |
| 2500      | 3.52      | 41.57      | -3.81 |
| 5150      | 6.06      | 52.46      | -2.80 |
| 5250      | 6.51      | 54.62      | -2.63 |
| 5350      | 6.18      | 57.26      | -2.42 |
| 5450      | 5.07      | 55.20      | -2.58 |
| 5550      | 5.02      | 56.22      | -2.50 |
| 5650      | 5.66      | 59.34      | -2.27 |
| 5750      | 5.62      | 59.51      | -2.25 |
| 5850      | 5.48      | 55.88      | -2.53 |

| Frequency | Peak Gain | Efficiency |       |
|-----------|-----------|------------|-------|
| Mhz       | dB        | %          | dB    |
| 5925      | 5.48      | 56.51      | -2.48 |
| 6025      | 5.76      | 53.61      | -2.71 |
| 6125      | 6.15      | 55.30      | -2.57 |
| 6225      | 6.66      | 54.95      | -2.60 |
| 6325      | 6.79      | 52.17      | -2.83 |
| 6425      | 6.44      | 48.79      | -3.12 |
| 6525      | 6.51      | 47.18      | -3.26 |
| 6625      | 6.90      | 45.83      | -3.39 |
| 6725      | 6.44      | 46.76      | -3.30 |
| 6825      | 6.59      | 44.61      | -3.51 |
| 6925      | 5.97      | 43.96      | -3.57 |
| 7025      | 5.82      | 41.25      | -3.85 |
| 7125      | 5.39      | 40.23      | -3.95 |



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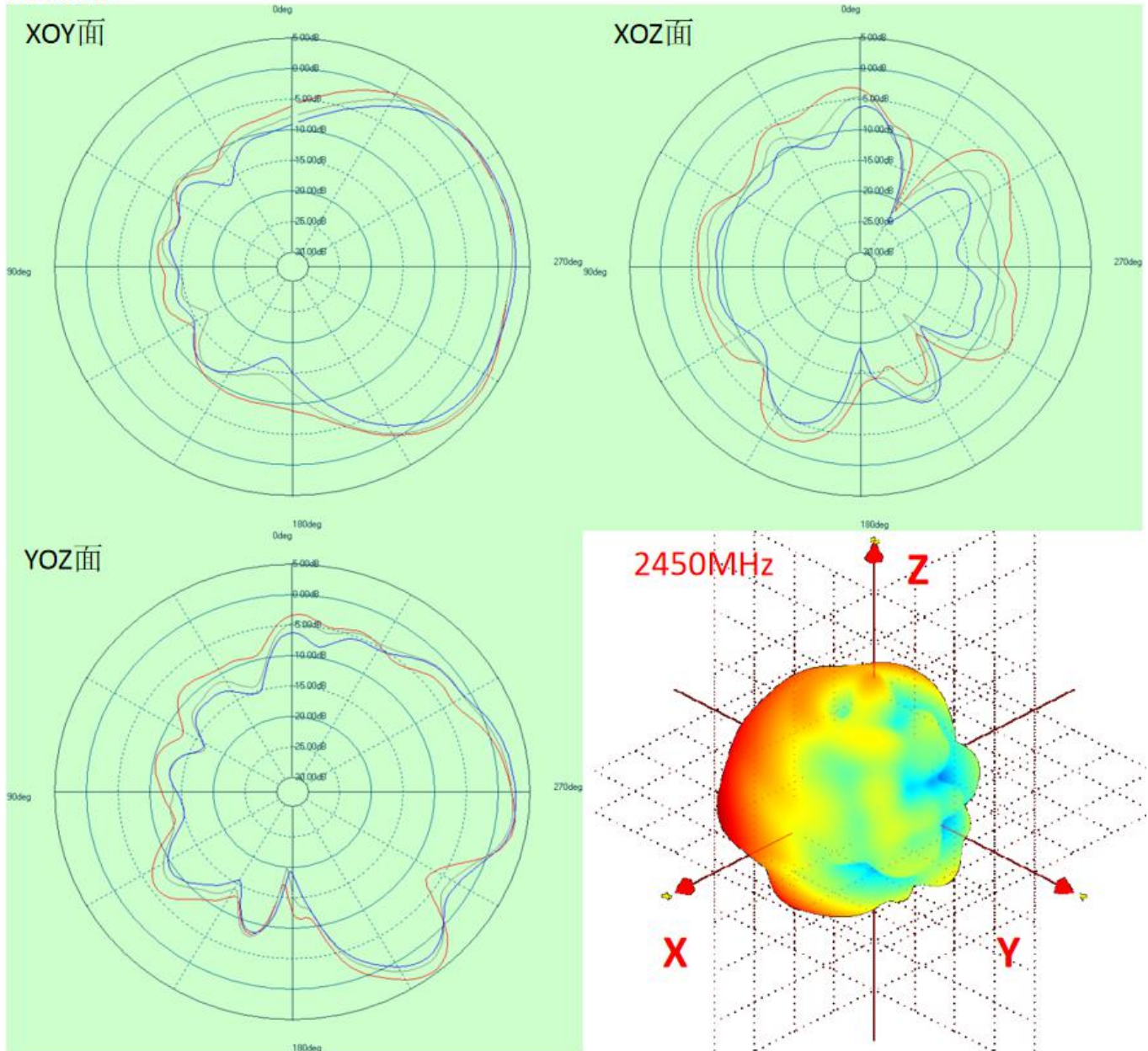
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## 4-4 Directional drawing of horizontal plane of&3D radiation drawing 2.4GHz



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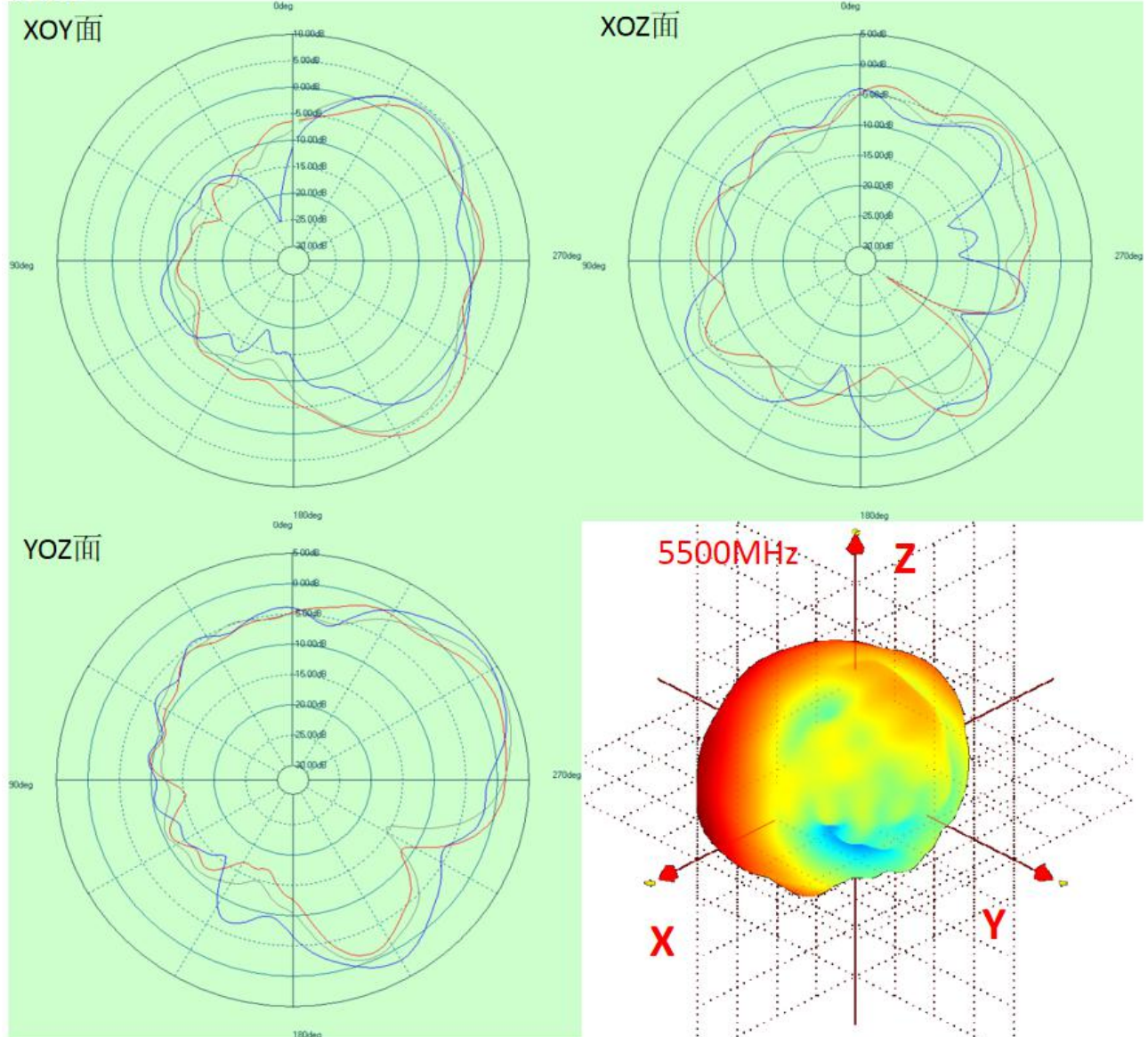
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5GHz



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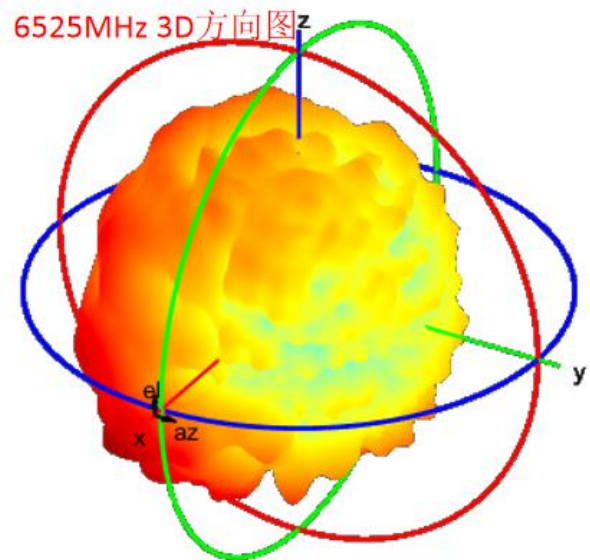
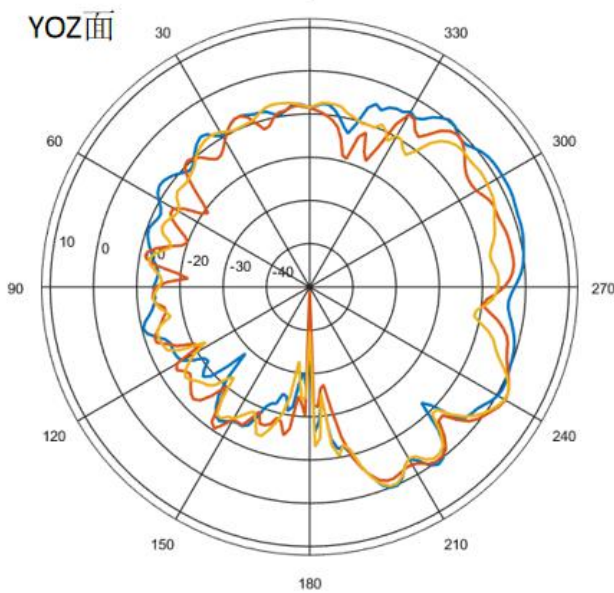
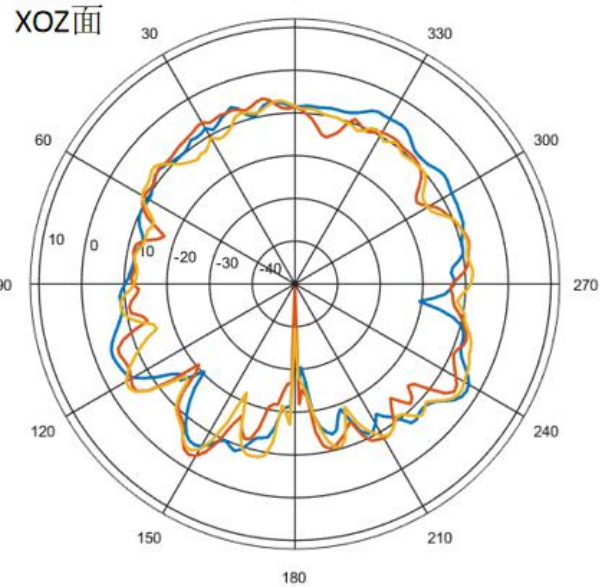
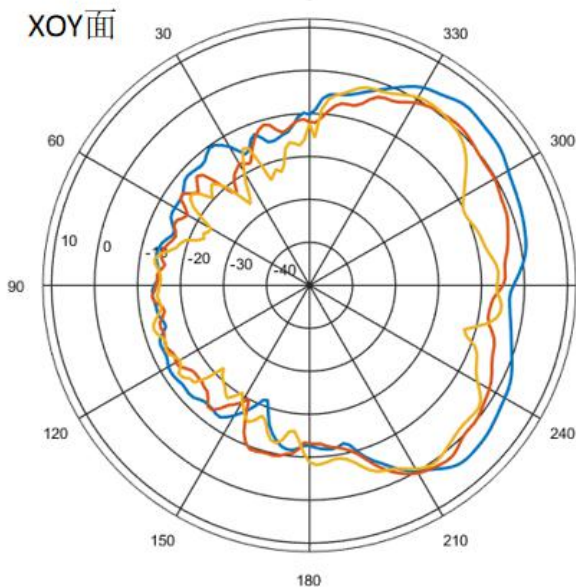
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6GHz



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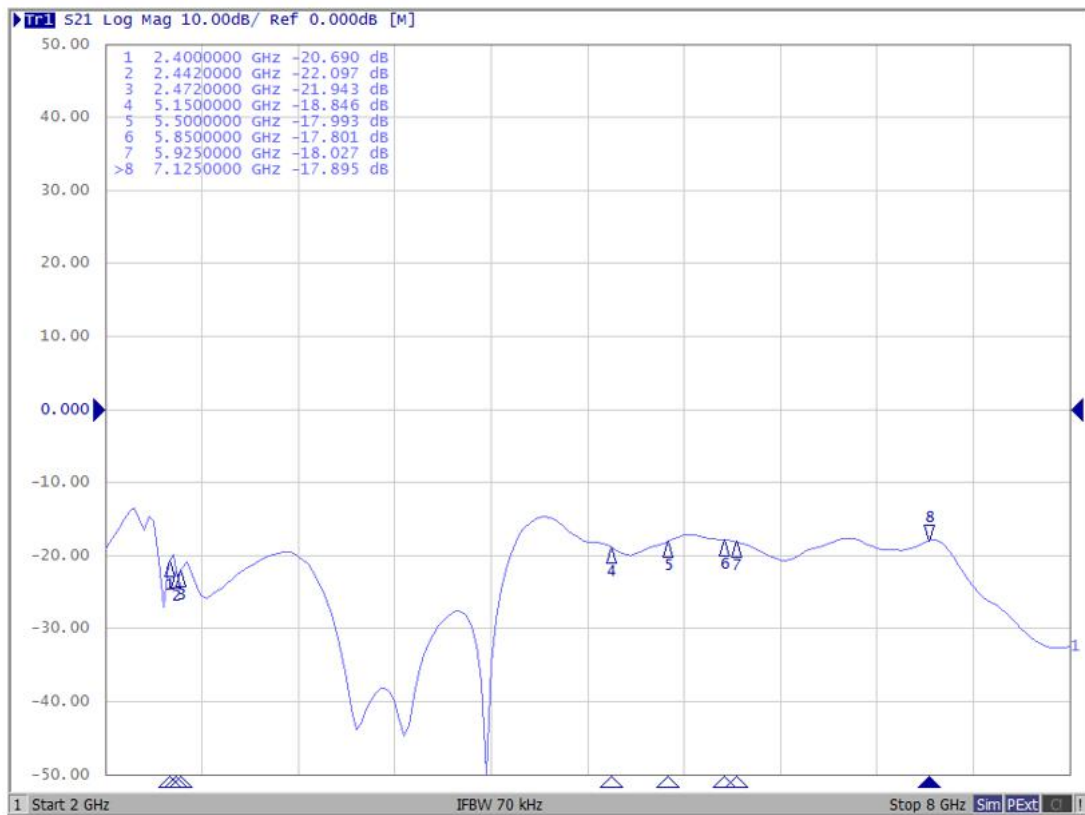
ZTX P/N :WXT2J WIFI-1 天线

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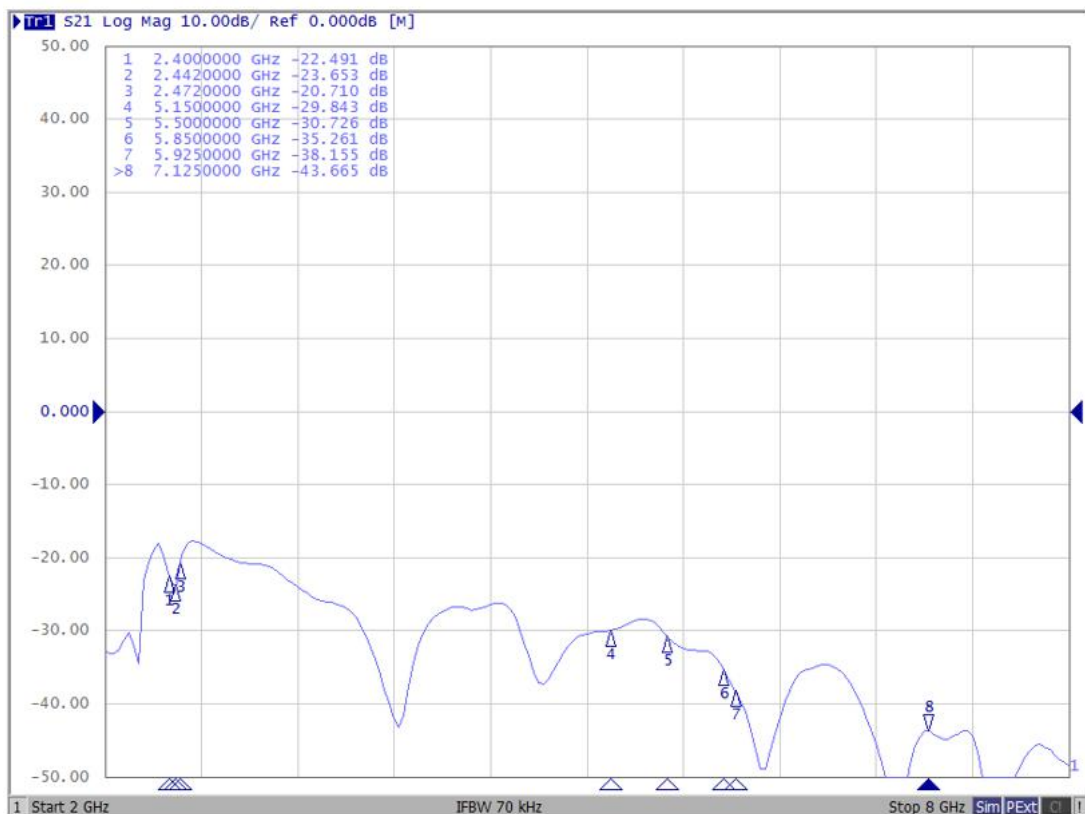
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## 4-5 Isolation test

WiFi-1与WiFi-2天线



WiFi-1与BT天线



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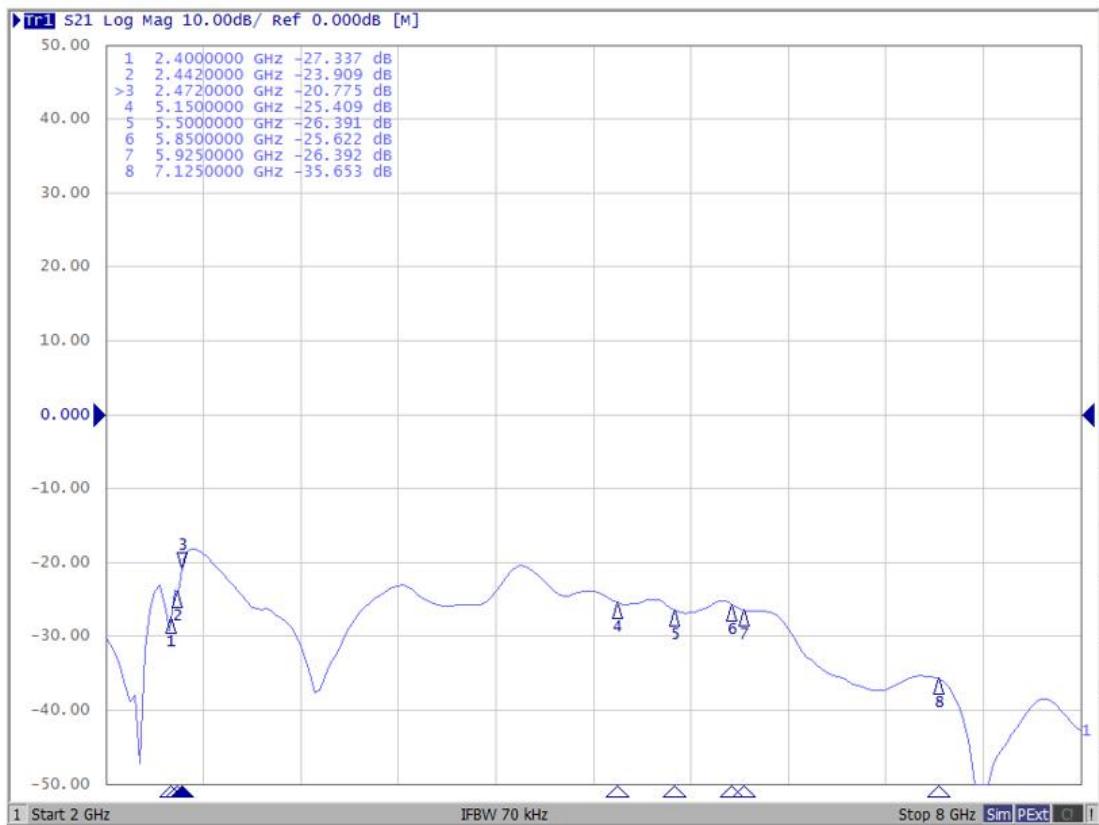
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## WiFi-2与BT天线



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## 5. Environment Characteristic

| NO. | ITEM                                                     | TEST CONDITION                                                                      | SPECIFICATION                                                                  |
|-----|----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 5-1 | High Temperature/Humidity<br>Storage Test(non operating) | 1.Temperature: $+80 \pm 2^{\circ}\text{C}$<br>2.Humidity: 90~95%RH<br>3.Time: 48hrs | No material deformation is allowed.                                            |
| 5-2 | Low Temperature/Humidity<br>Storage Test(non operating)  | 1.Temperature: $-30 \pm 2^{\circ}\text{C}$<br>2.Humidity: 0%RH<br>3.Time: 48hrs     | The VSWR, Gain, Radiation Pattern must be met specifications after these test. |

## 6.Raw Material Detection List

| 描述<br>Description | Material/Type<br>name<br>原材料名称/型号 | Raw Material<br>Manufacturers<br>原材料制造商名称 | Test<br>Lab<br>测试机构名称 | Test Report NO.<br>测试报告编号 | Report date<br>测试日期 | Validity<br>Date (有效日期) | Remark<br>备注                                                                                                     |
|-------------------|-----------------------------------|-------------------------------------------|-----------------------|---------------------------|---------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|
| 1                 | SUS304                            | HESHENG                                   | SGS                   | SZXEC2100804202           | 2021/3/30           | 2022/3/29               | <br>SUS304<br>SZXEC2100804202 |



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## 7.The packing way

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包装规范

|                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |           |    |         |      |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|----|---------|------|-----|
| 产品名称                                                                                                                                                                                                                                                                                                                                                                                                                                  | 产品型号  | 文件编号      | 版本 | 工序序号/名称 | 工序工时 | 日产量 |
| 天线                                                                                                                                                                                                                                                                                                                                                                                                                                    | WXT2J | ZTX-QD-WI | A1 | 包装/装箱   | /    | /   |
| <div><div><div><div><div><div><div><div><div><div></div><div></div><div></div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div><div></div><div></div><div></div></div> <div></div> <div></div> <div></div> |       |           |    |         |      |     |

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附页：出货标签模板

N/A

