

Testing Report

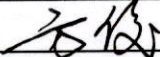
Customer Name

Product Nam: 2 4GHz Antenna---20.10.0003

Sample Model : AJX206D-02 AJX206C-12

Reference Standard: GB/T 9410-2008; ANSI/IEEE Std 149-1979

Issue Date:2022.09.02

| | | | |
|-----------|---|------|------------|
| Engineer: | 姚洪光 | Date | 2022-09-02 |
| Auditor: | 姚洪光 | Date | 2022-09-02 |
| Approve: |  | Date | 2022.9.2 |

Version

| Version No. | Date | Description | Formulate | Approval |
|-------------|------------|---------------------|-----------|----------|
| V.0 | 2022.09.02 | For the first time. | | |
| | | | | |
| | | | | |

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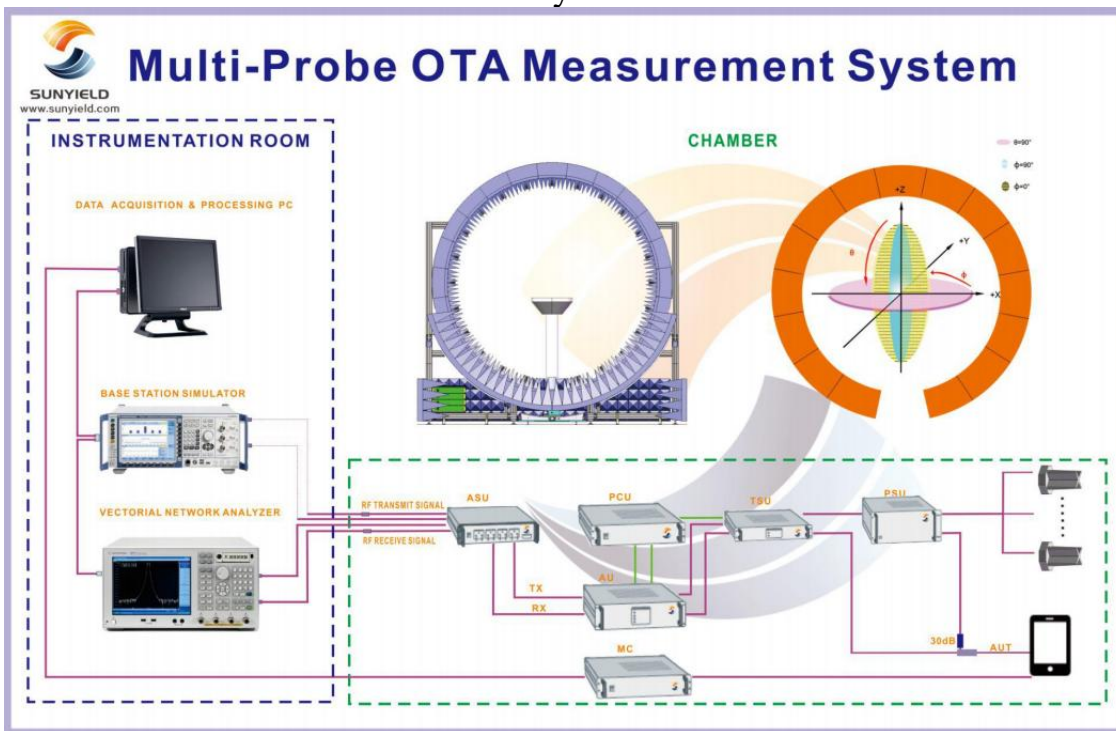
1. General Information

1.1 General information of testing institutions

| | |
|-----------------|---|
| Name Address | 3rd Floor, Building A5, Nanshan Zhiyuan, 1001 Xili Xueyuan Avenue, Nanshan District, Shenzhen |
| Tel | 0755-83949890 (8890) |
| E-Mail | |
| Equipment | |

1.2 Testing principle

Multi-Probe OTA Measurement System



1.3 Test equipment

| Equipment | Model No. | Serial No. | Manufacturer | Calibration date | Next calibration date |
|----------------------------|-------------|--------------------------|--------------|------------------|-----------------------|
| 24 probe microwave chamber | 3.2*3.2*2.8 | JX-YF-PD-A-TX AS-3292 | SUNYIELD | 2021.05.06 | 2024.05.05 |
| Network Analyzer | E5071B | MY42402245 | Agilent | 2022.02.28 | 2023.02.27 |

1.4 Testenvironment

| | |
|-------------|-----------|
| Temperature | 23.5°C |
| Humidity | 65%RH |
| Pressure | 100.23kPa |

1.5 Statement

- (1) The test results in the report are only applicable to the tested sauries and the tested samples work under the environment described in the rq)ort.
- (2) Only Shenzhen Jingxun Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision fbnn.
- (3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (4) This report is invalid if there is any evidence that the sample information provided is falsified.
- (5) The report is invalid without the signature of the auditor and approver.

2. Sample Information

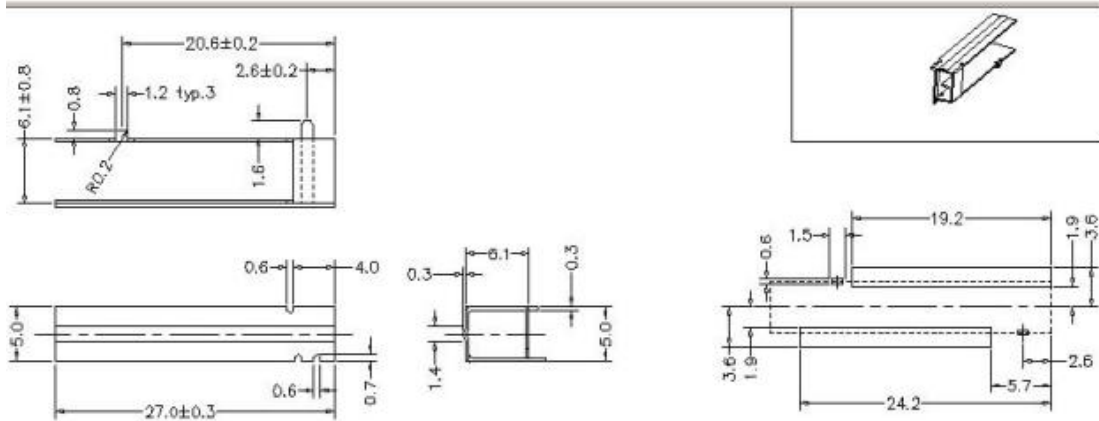
2.1 Client information

| | | |
|-----------------|--|--|
| Name | | |
| Address | | |
| Contacts | | |
| Tel | | |
| E-mail | | |

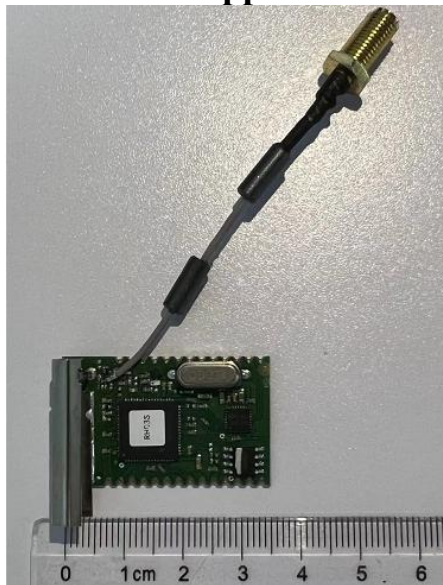
2.2 Description of EUT(S)

| | |
|------------------------|---|
| Product Name | 2 4GHz Antenna |
| Sample Model | AJX206D-02 、 AJX206C-12 |
| Antenna Size | 27x5x6mm |
| Antenna Type | PIFA Antenna |
| Serial No. | 20.10.0003 |
| Test Item | VSWR; Gain; Efficiency; Radiation pattern |
| Frequency Range | 2400-2500MHZ |
| Received Date | 2022.09.02 |
| Test Date | 2022.09.01 |
| Remark | |

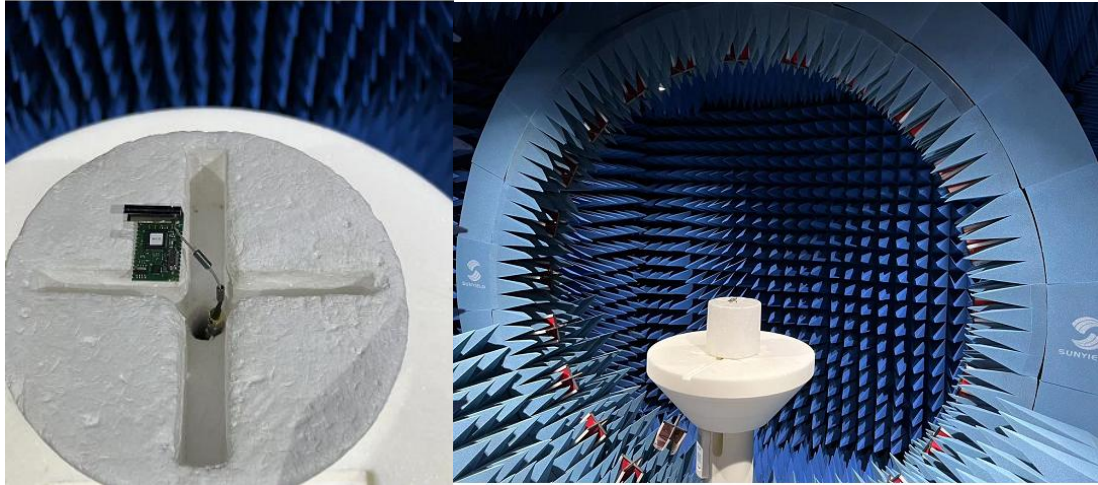
外形及尺寸



2.3 EUT appearance



2.4 DUT setup photo of free space OTA testing



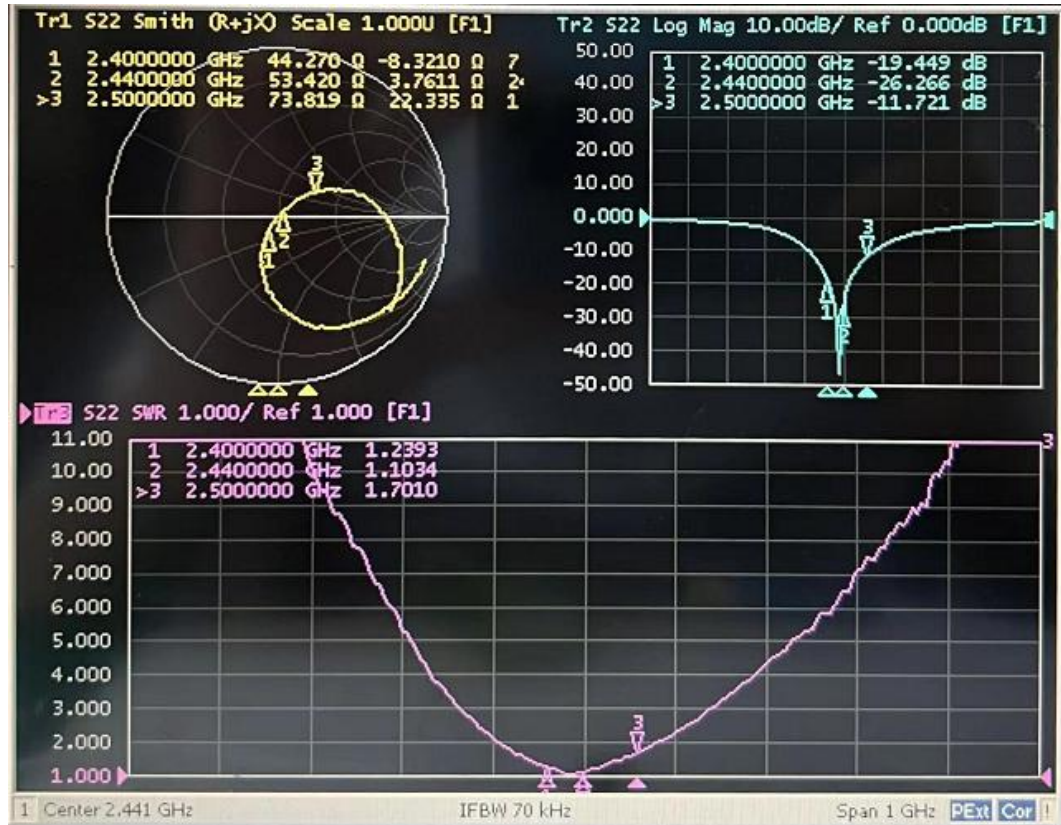
3. Test Results

3.1 Test standard

| Standard uo. | | Method | Standard uo. |
|------------------------------|----------------------|--|------------------------|
| Mobile commimication antenna | Antenna gain | Generic specification for antennas used in the mobile communications | GB/T 9410-2008 |
| | Radiation pattern | | |
| Antenna | Radiation efficiency | IEEE Standard Test Procedures for Antennas | ANSL'IEEE Std 149-1979 |

3.2 Test data

3.2.1 S11 Parameters



3.2.2 VSWR

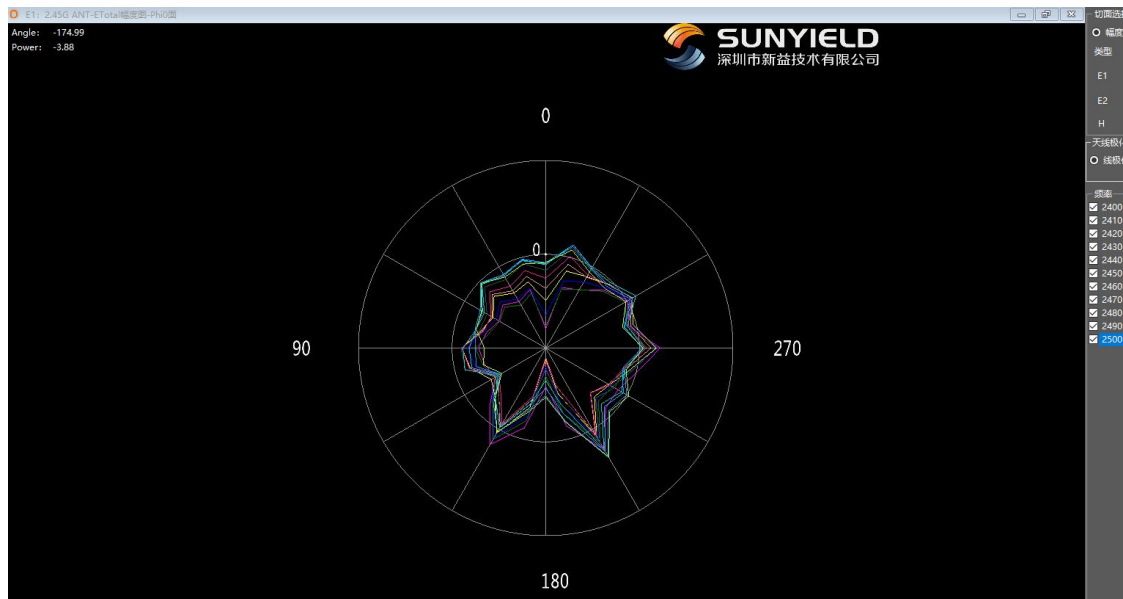
| | | | |
|----------------------|--------|--------|--------|
| Frequency/MHz | 2400 | 2450 | 2500 |
| VSWR | 1.2393 | 1.1034 | 1.7010 |

3.2.3 Typical free space efficiency and gain

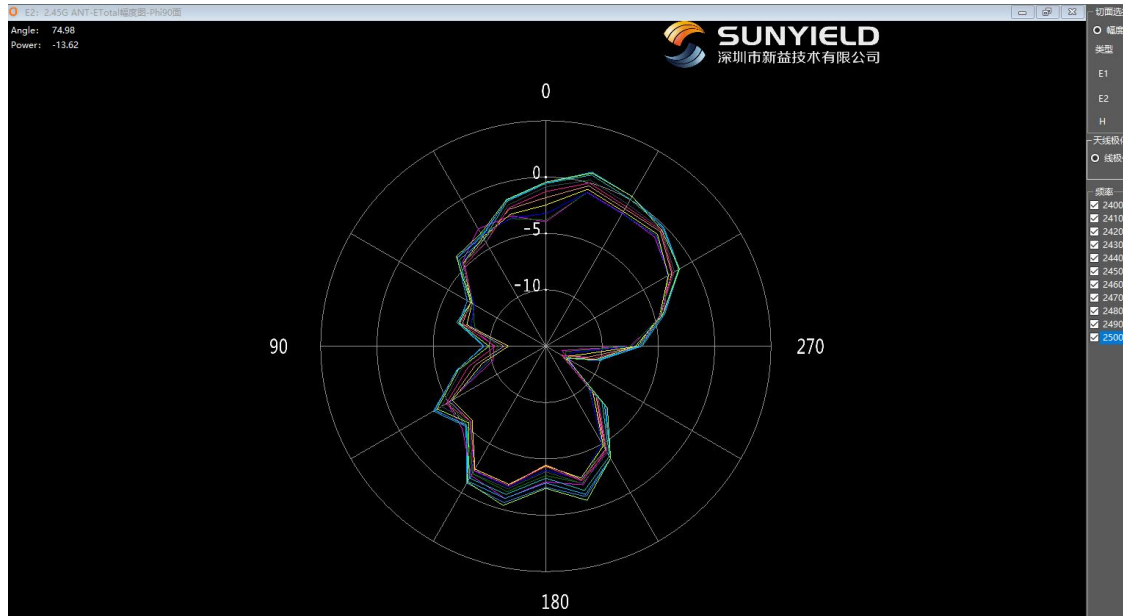
| | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency(MHz) | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 |
| Peak Gain(dBi) | 0.92 | 0.84 | 0.71 | 0.67 | 0.64 | 0.59 | 0.68 | 0.86 | 0.9 | 0.87 | 0.88 |
| Efficiency(%) | 61.92 | 61.31 | 61.28 | 60.84 | 60.98 | 61.31 | 61.47 | 61.85 | 62.23 | 62.26 | 61.61 |

3.2.4 Typical free space radiation pattern

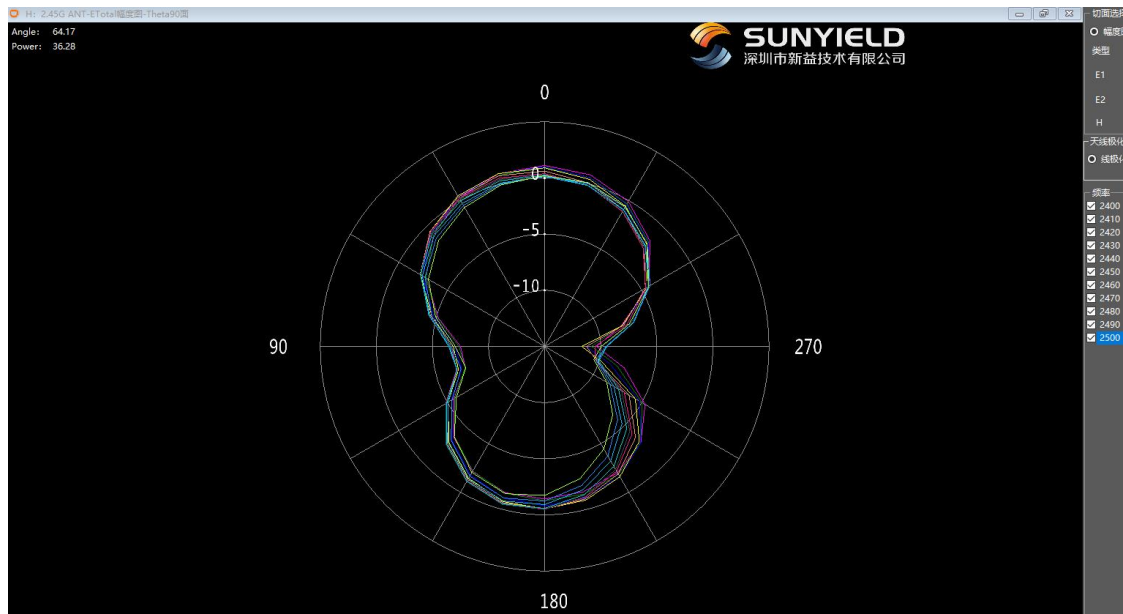
(1) 2400-2500MHz X-Z Plane:
E Phi=0



(2) 2400-2500MHz Y-Z Plane:
E Phi=90



(3) 2400-2500MHz X-Y Plane:
H Theta=90



(4) Typical Free Space 3D
Radiation Pattern at 2.45GHZ

