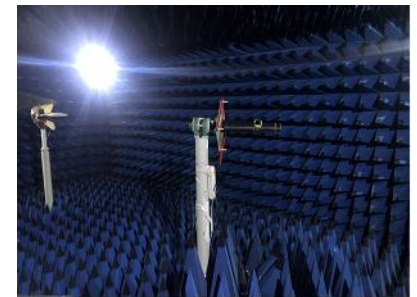


# JZ-AT2203 Antenna test report

RF: Hong Yuankai

Date: 2024-4-23

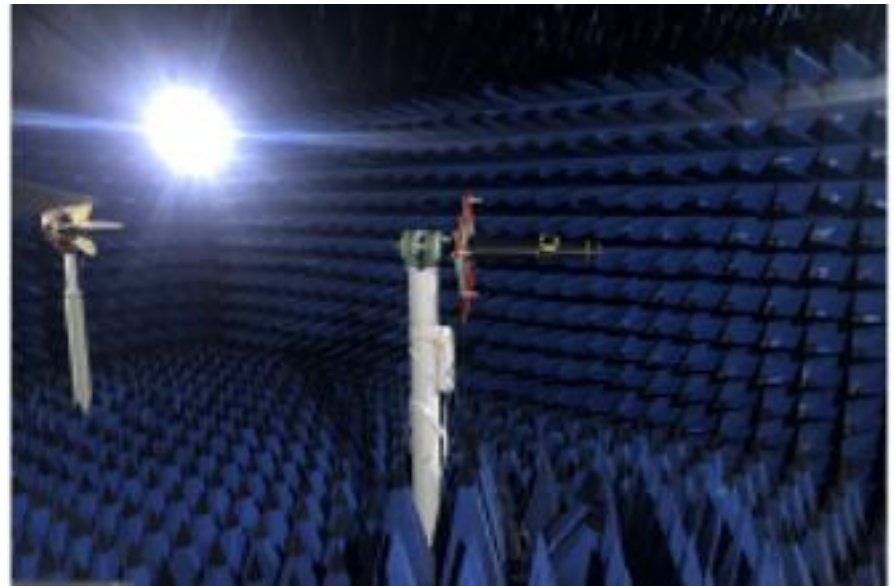
Contact: 15119409299





## Project development environment

We are moving from the Internet era to the intelligent era, and the country is building a digital society and a smart city. In the next 5-10 years, there is huge potential for development in both the consumer electronics market and the Internet of Things market. The field of wireless communication is very diversified, and in the future, Yusheng will rely on the advantages of the customer platform of the main antenna business and its own comprehensive strength, and strive to provide customers with professional-grade product solutions with market competitiveness.



Yusheng Communication's products cover almost all antenna applications of wireless terminal equipment, including automotive antennas, high-precision surveying and mapping antennas, UAV ground and satellite data navigation, high-precision positioning antennas, wireless transmission of medical equipment, consumer antennas (mobile phone antennas, pads, laptop antennas), base station/indoor distribution antennas, smart wearable antennas (smart watches, TWS earphones), security home antennas and a variety of wireless data transmission and wireless control of smart device antennas, etc.

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Summary & Additional Notes

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## Introduction to project debugging

|                           |   |                |          |
|---------------------------|---|----------------|----------|
| Model                     | AT2203                                      |                |          |
| Plate type                | PCBA  |                |          |
| Band and antenna material |   | Frequency band | Material |
|                           | BT  | 2.4GHz-2.5GHz  | Onboard  |
| Performance requirements  | Executed according to customer requirements |                |          |



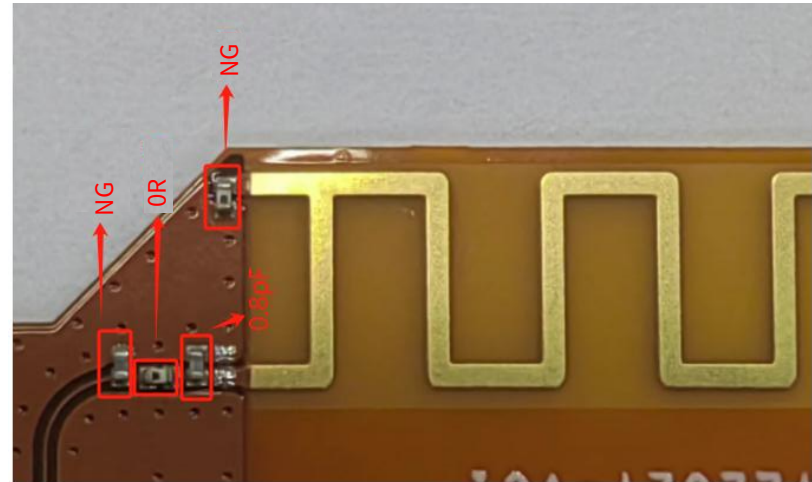
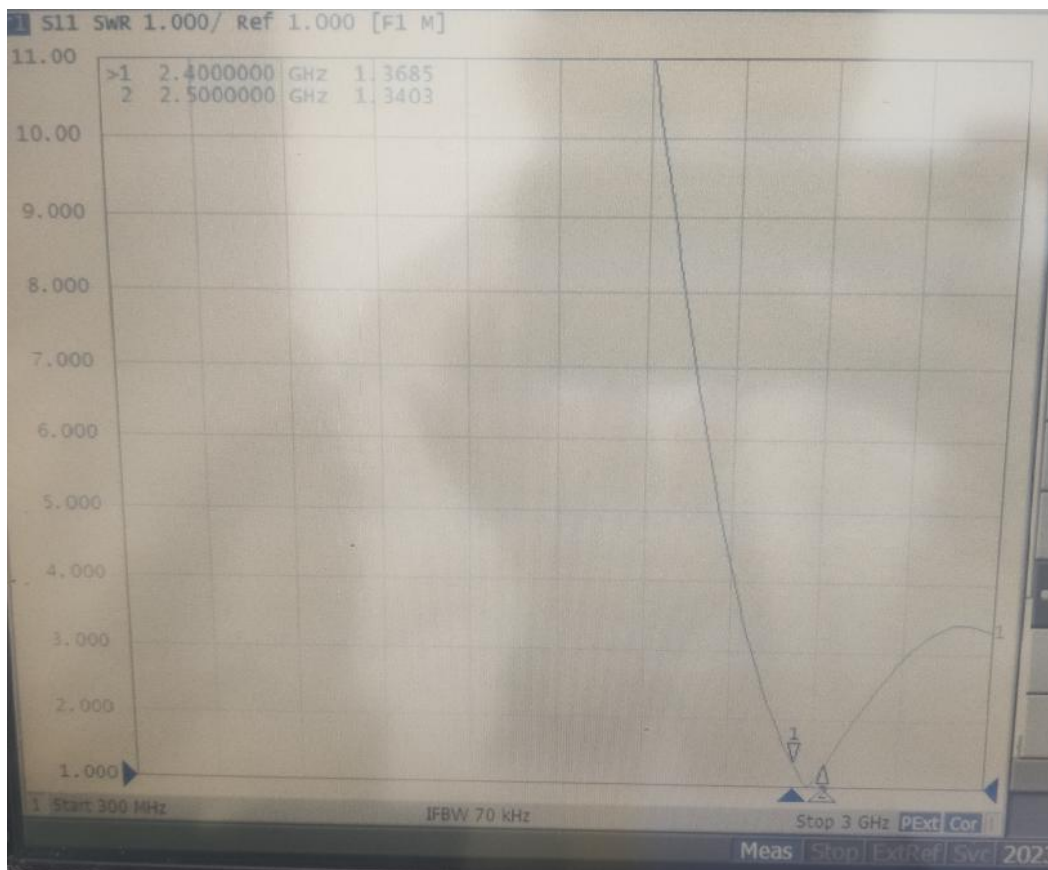
## Antenna passive parameters-efficiency

| Test Point ID  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Freq. (MHz)    | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)     | 0.92   | 0.97   | 1.05   | 1.12   | 1.19   | 1.23   | 1.20   | 1.11   | 1.03   | 0.95   | 0.90   |
| Efficiency (%) | 47.7%  | 48.4%  | 48.8%  | 49.4%  | 50.0%  | 50.6%  | 50.1%  | 49.2%  | 48.6%  | 48.0%  | 47.5%  |



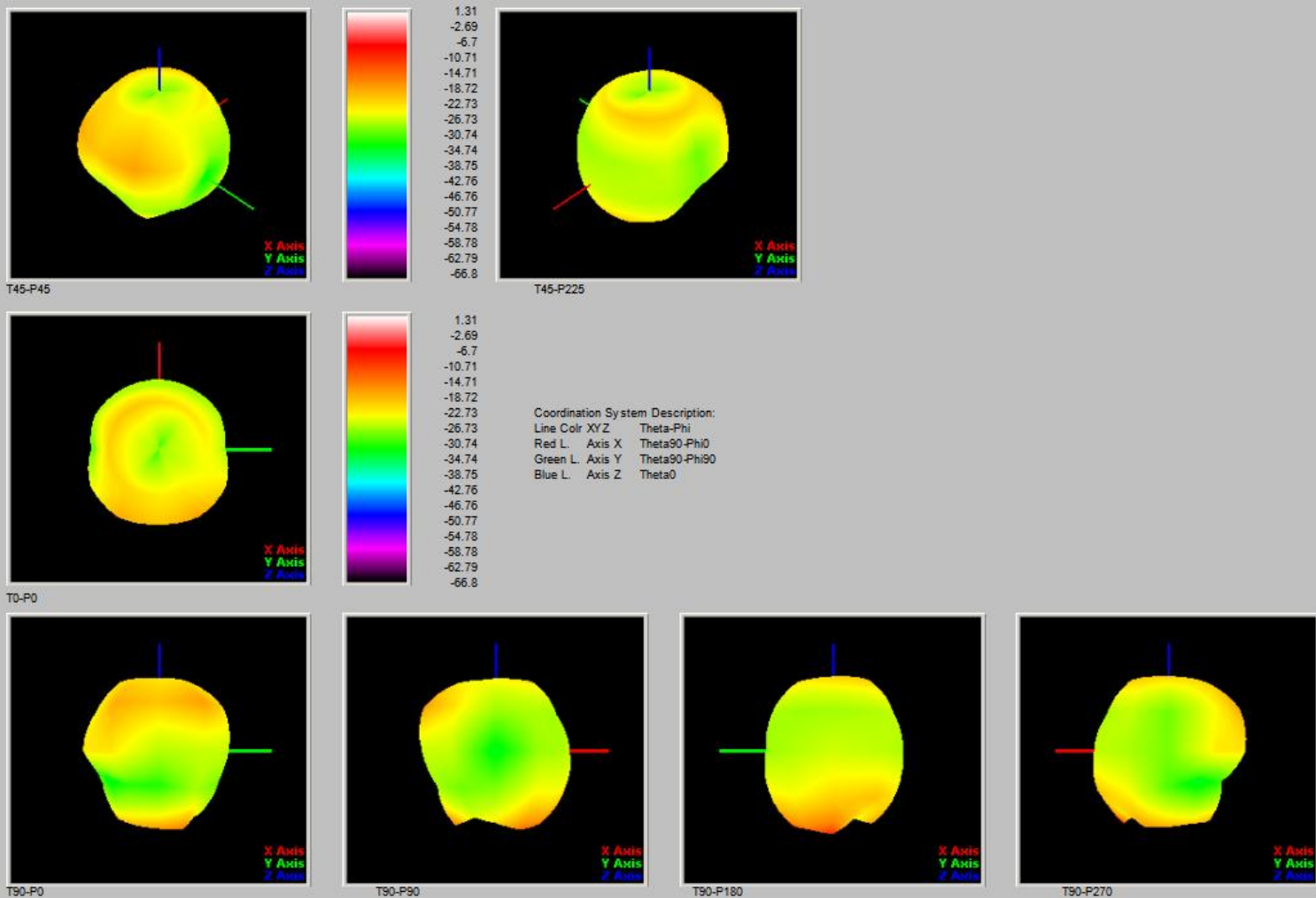
# Yusheng Communications-equipment Co.,LTD

## BT Antenna VSWR And BT Antenna Matching



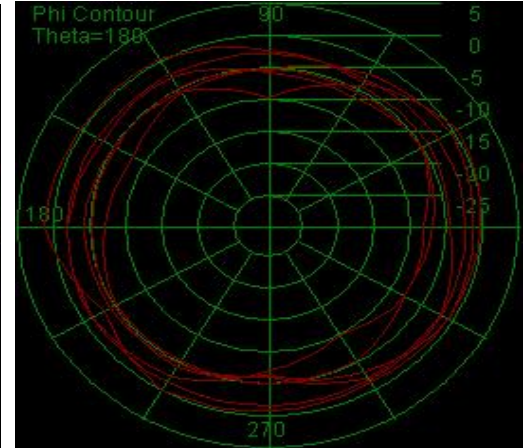
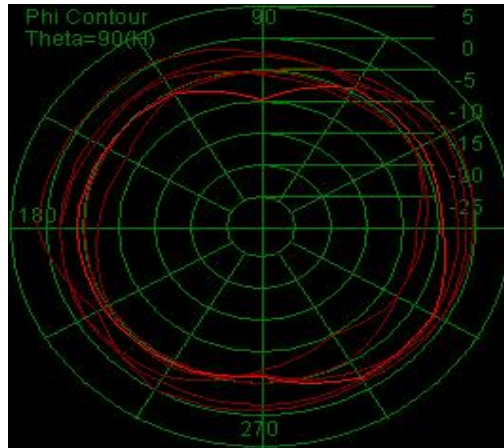
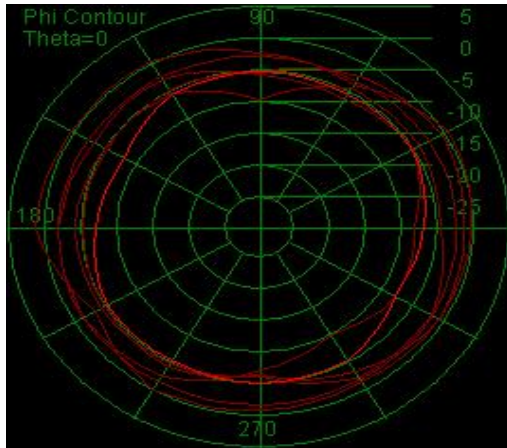


## BT-Passive Parameters–Apple Diagram

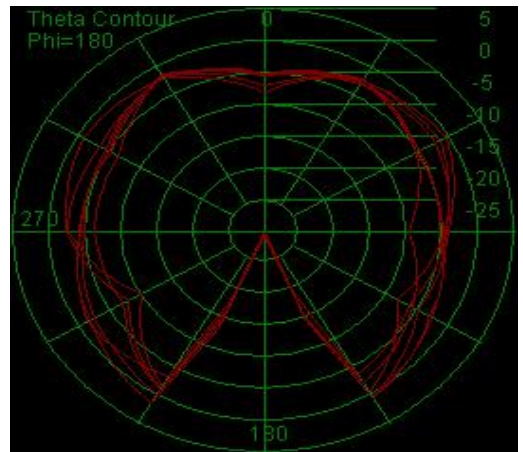
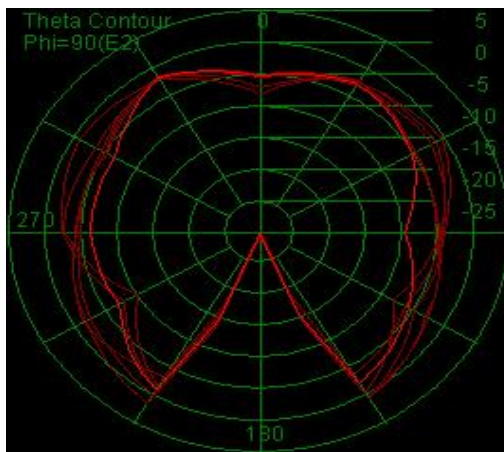
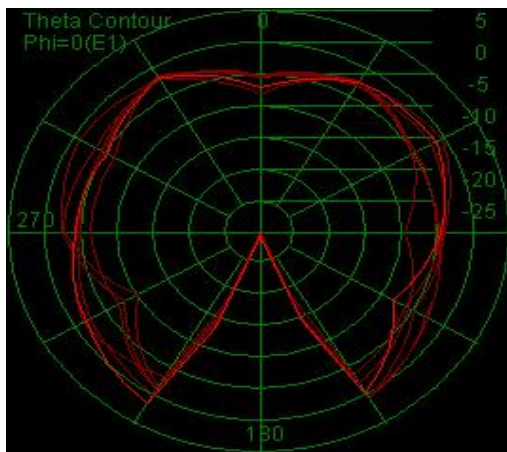


## BT-Passive Parameters-Plan

Horizontal:



Vertical:





# *Thank you!*



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