
BT&WiFi Antenna Specification

Customer : Audi oCodes

Product Name: BT&WiFi Antenna

Product specifications: BT&WiFi FPC+0.81 Cable+RF

Date of issue: 2022-11-18

Manufacturer Recognition Column:

Proposed	Operations	Structure	Ratification

Customer Recognition Column:

Confirmation	Audit	Ratification

Manufacturer: Shenzhen JieXunTong Wireless Communication Co., Ltd
Address: A-409, 425-426, Tong'an Logistics Information Port, No. 30, Gushu Hangkong Road, Bao'an District, Shenzhen

Directory

1、 Product Description.....	2
2、 Product Picture.....	2
3、 Product Specifications.....	2
4、 Test environment.....	3
5、 Environmental Performance	4
6、 Test data.....	5-9
7、 Engineering drawings.....	10

1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications. We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

2 Product Picture



3 Product Specifications

Passive Electrical Specifications	
Frequency Range (MHz)	2400-2500MHz, 5000-6000MHz
Input Impedence (Ω)	50
VSWR	≤ 3
Gain (dBi)	2G:2.19; 5G: 4.45
Polarization Type	Linear
Mechanical Specifications	
Height (mm)	11*35mm
Cable Length (mm)	150mm 0.81 Cable
Radiator	Cuprum
Connect Type	RF IV
Working Temperature ($^{\circ}\text{C}$)	-40 ~ +85
Radome Color	Black

4 Test environment

Network Analyzer: Agilent 5071 B

Comprehensive tester: R&S CMW500(2/3/4G/NB-IoT/WIFI/BT); Anritsu MT8820C

Microwave darkroom :3*3*3 ETS Chamber

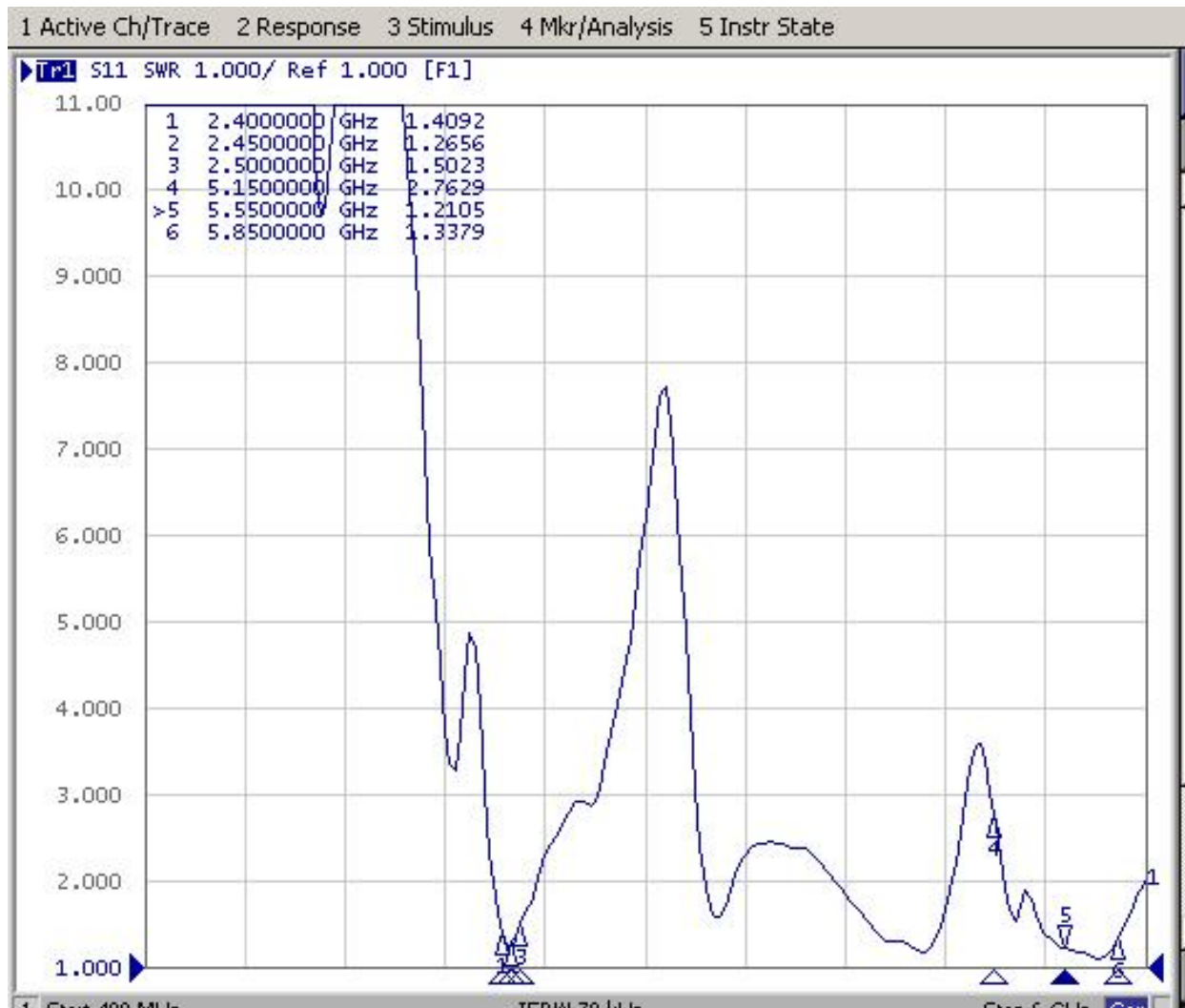


5 Environmental Performance

Environmental Performance		
Test Description	Test Procedures & Condition	Requirements
Salt Spray Test	In a $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$ airtight environment, humidity > 85%, PH in the range 6.5-7.2, with $5\% \pm 1\%$ NaCl solution Duration	<ol style="list-style-type: none"> 1, No evidence of damage 2, The electrical performances should meet the spec. specified
High temperature test	Decay Test Conditions: Temperature: 85°C , Duration : 24 hours	<ol style="list-style-type: none"> 1. No evidence of damage 2. The electrical performances should meet the spec. specified
Low Temperature test	Decay Test Conditions: Temperature: $-40 \pm 2^{\circ}\text{C}$, Duration : 10 Minute	<ol style="list-style-type: none"> 1.No evidence of damage 2.The electrical performances should meet the spec.specified

6 Test data

- VSWR



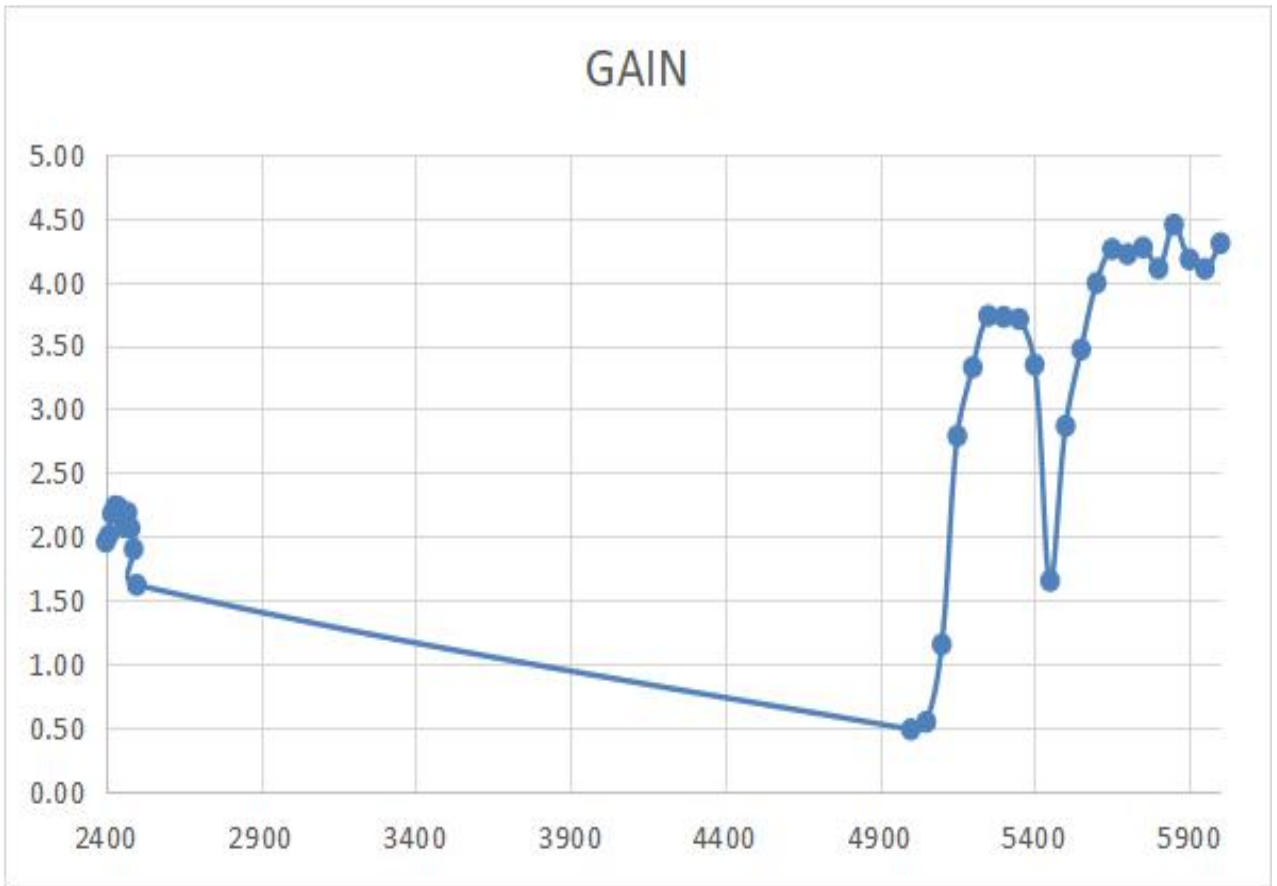
Frequency(MHz)	2400	2450	2500	5150	5550	5850
VSWR	1.4	1.27	1.5	2.76	1.21	1.34

- Efficiency



Frequency(MHz)	2400	2450	2500	5150	5550	5850
Effi	58.32	59.69	58.70	53.18	61.84	69.33

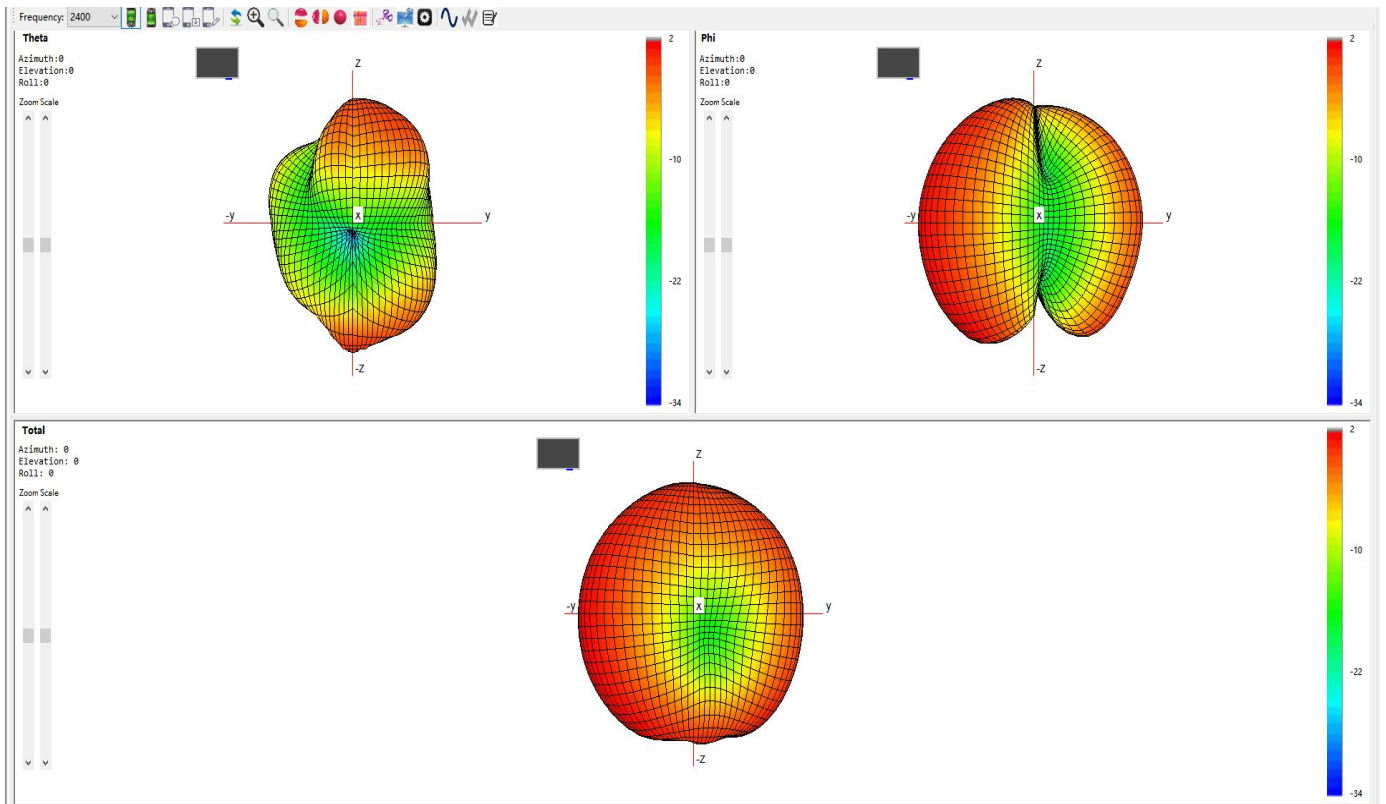
- Gain



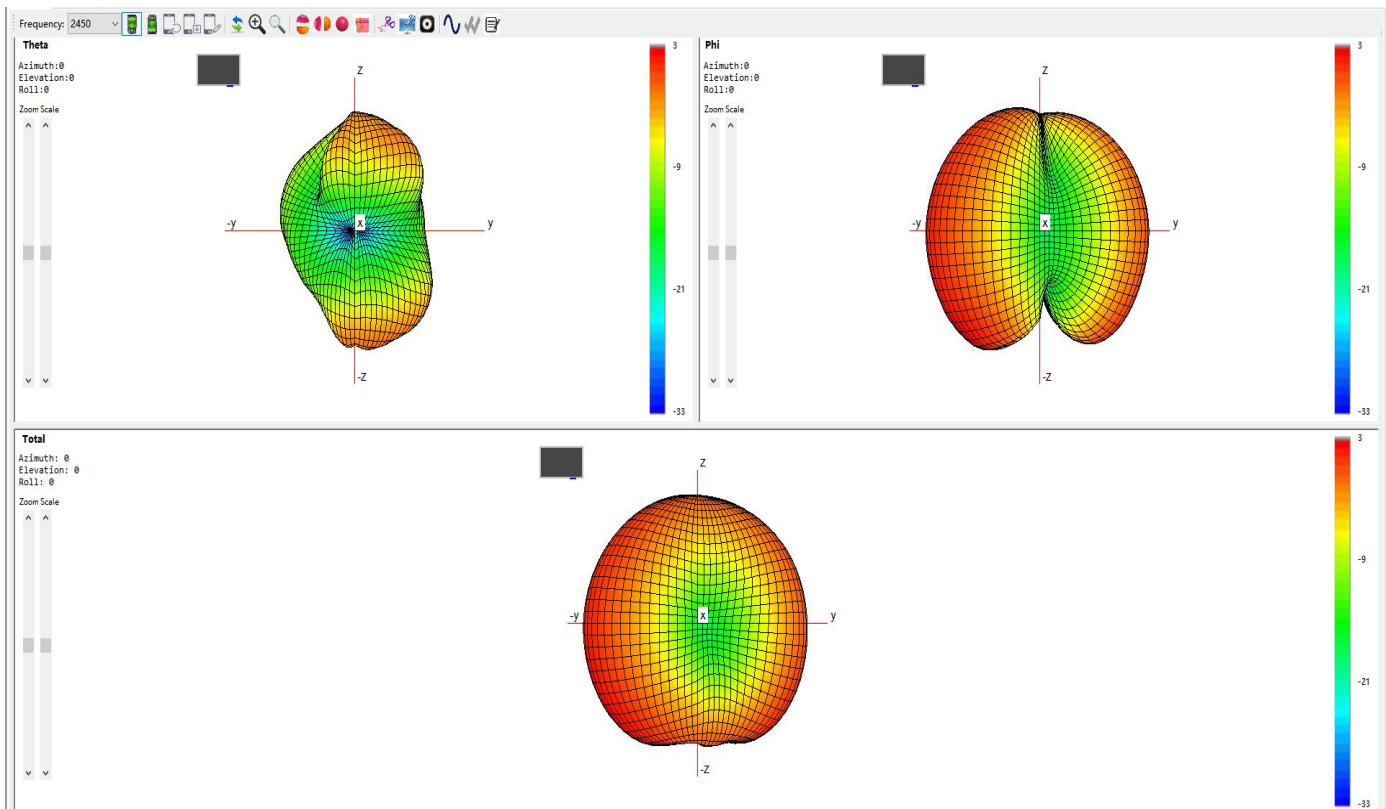
Frequency(MHz)	2400	2450	2500	5150	5550	5850
Gain dBi	1.96	2.19	1.62	2.79	3.47	4.45

● Radiation Patterns

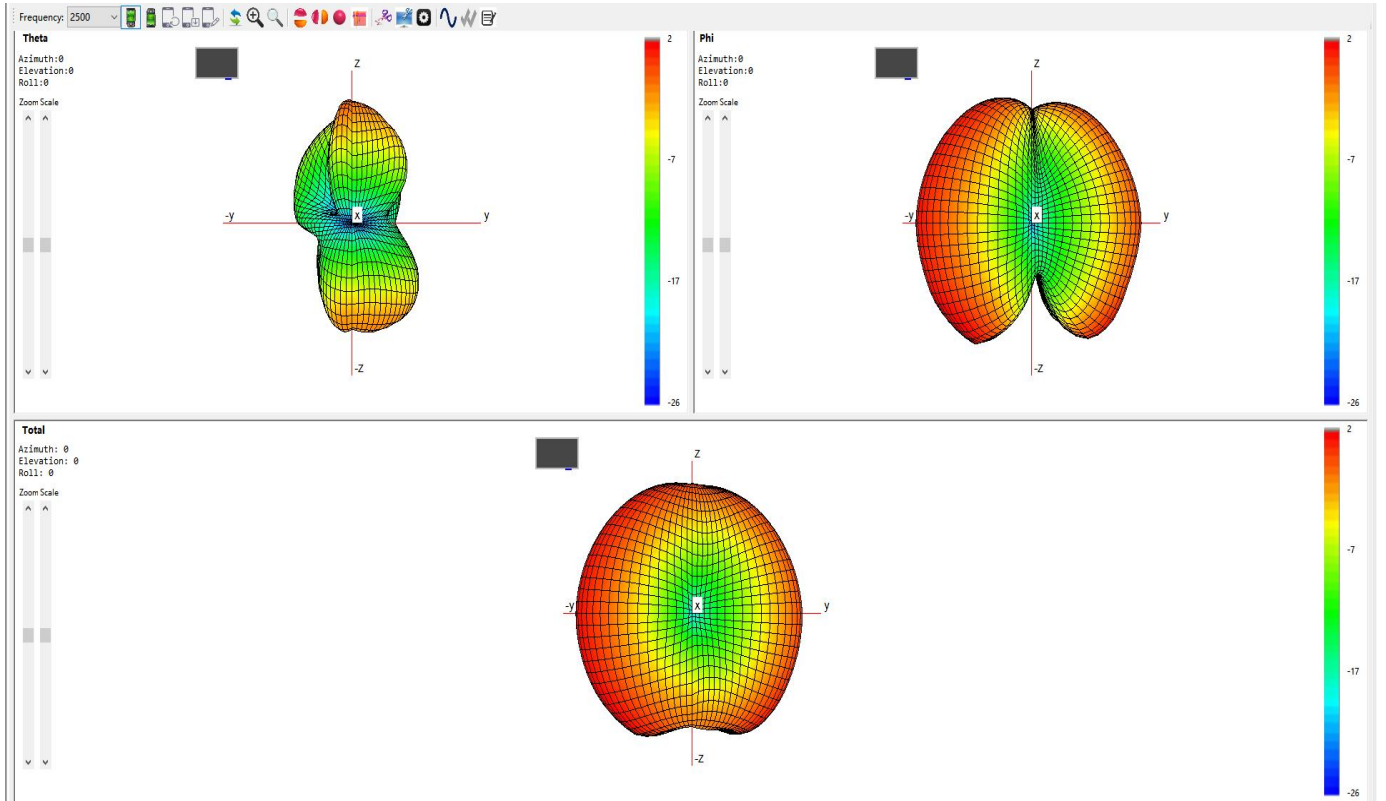
2400MHz



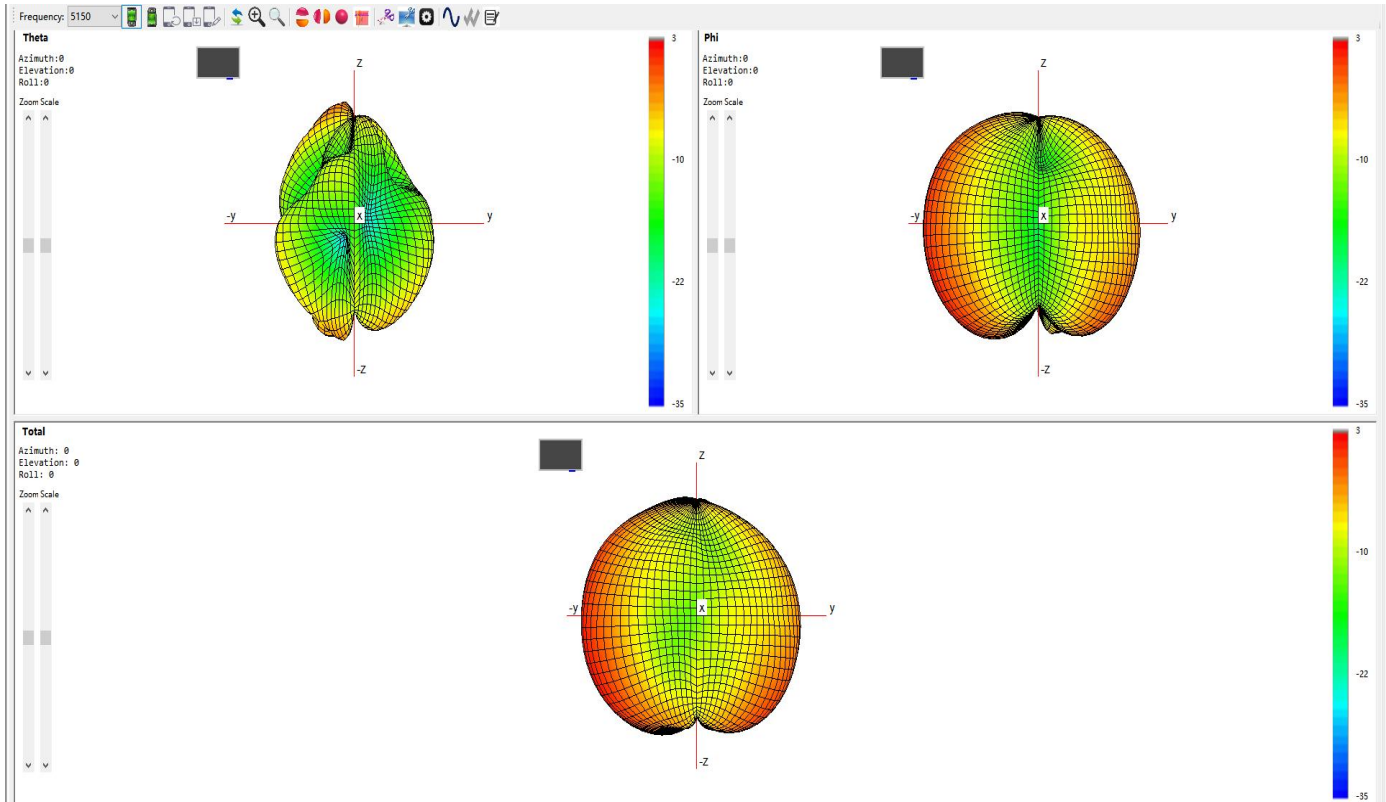
2450MHz



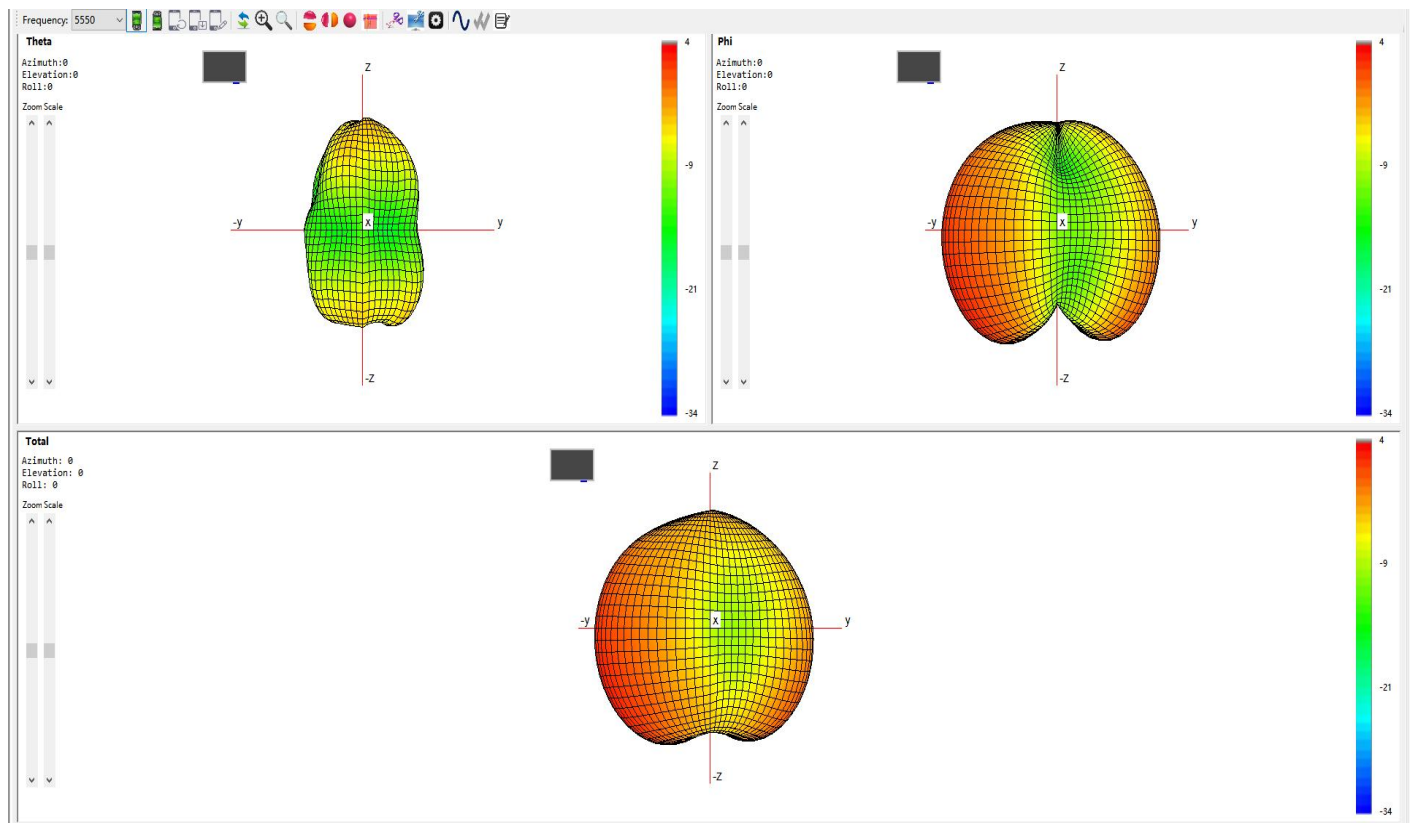
2500MHz



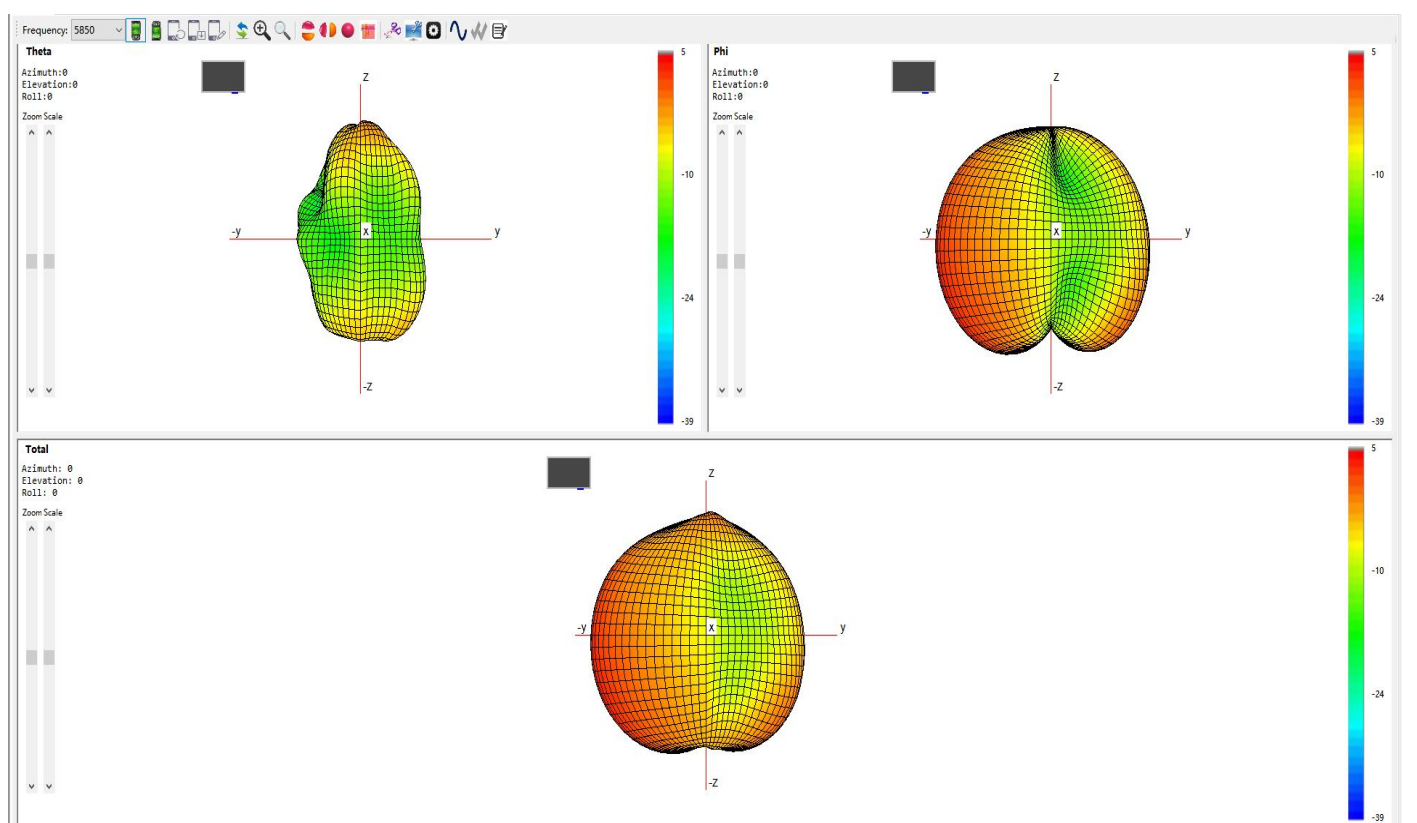
5150MHz



5550MHz



5850MHz



7 Engineering drawings

