

SPECIFICATIONS FOR APPROVAL

Customer Name: _____

Product Name: _____ BT antenna

Product Model: _____ C25001A10

Part Number: _____

Write By : _____ 陈千禧

Issued Date: _____ 2025-05-28

CUSTOMER

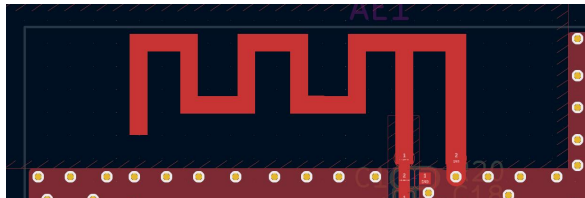
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

SOUTHSTAR

R & D D E P T	ENGINEER R&D DEPT	APPROVAL

DONGGUAN JINGWEIXIN CIRCUIT CO LTD
DONGPING SCIENCE AND TECHNOLOGY INDUSTRIAL PARK, QISHI
TOWN
DONGGUAN, GUANGDONG CHINA

The basic parameters:

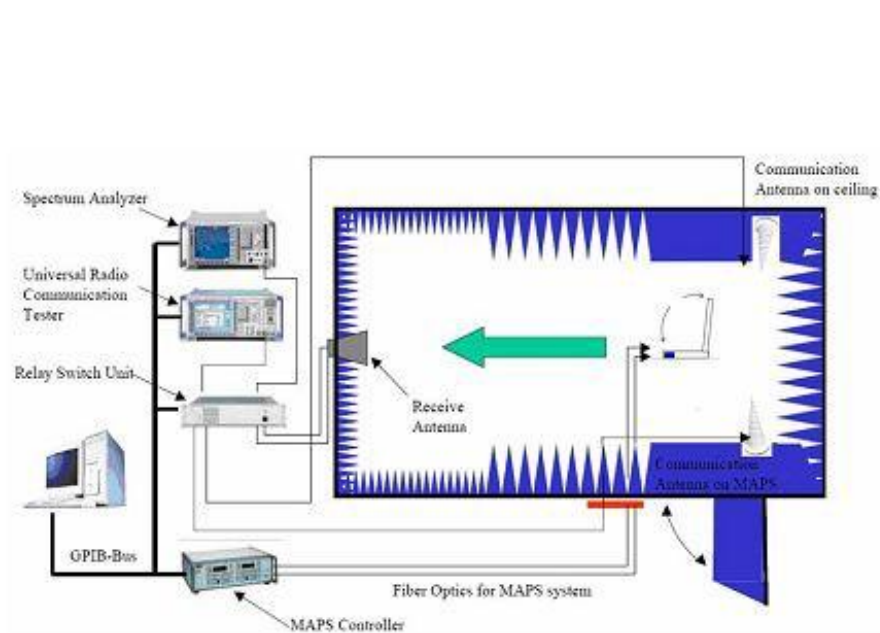
A. Electrical Characteristics	
Frequency	2400 MHz ~2500 MHz
VSWR	< 2
Efficiency	>40%
Impedance	50 Ohm
Polarization	Linear
Gain	1.41dbi
B. Material & Mechanical Characteristics	
Material of Radiator	PCB black
Cable Type	14.60mm
Connector Type	
Dimension	
PCB antenna size:14.60*5.65mm	
C. Environmental	
Operation Temperature	-10 °C ~ + 50 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions

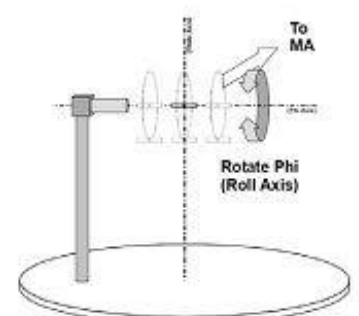
1. Network Analyzers :

Agilent E5071C

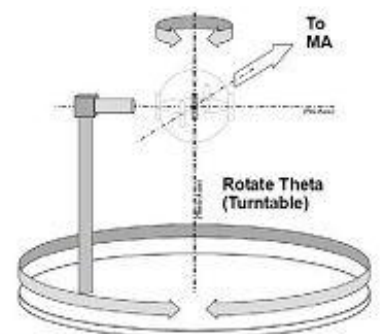
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)

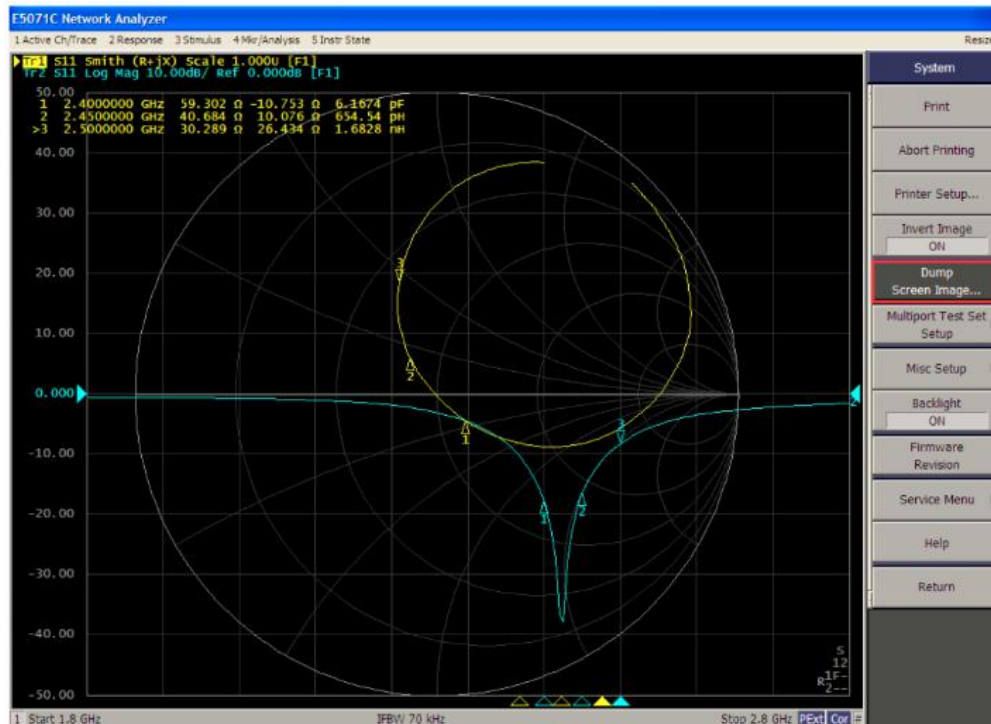


Phi axis test

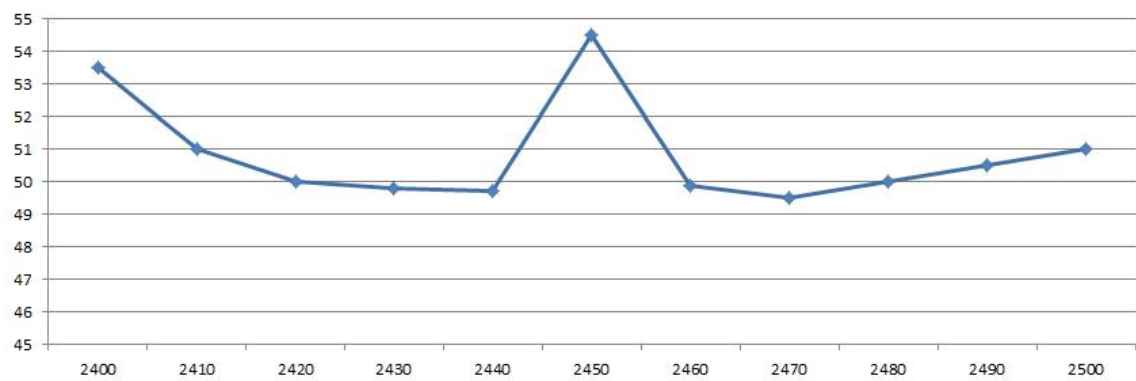


Theta axis test

3. Antenna Impedance: S11 (parameter)



4. Total Efficiency-2.4G:



2400MHz frequency: 0.51dbi

2410MHz frequency: 0.58dbi

2420MHz frequency: 0.52dbi

2430MHz frequency: 0.53dbi

2440MHz frequency: 0.68dbi

2450MHz frequency: 1.02dbi

2460MHz frequency: 1.08dbi

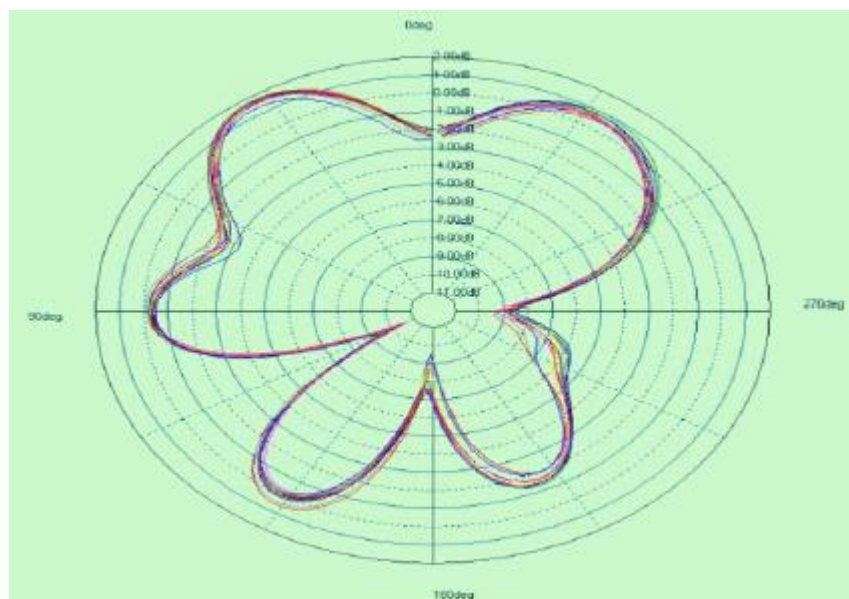
2470MHz frequency: 1.28dbi

2480MHz frequency: 1.41dbi

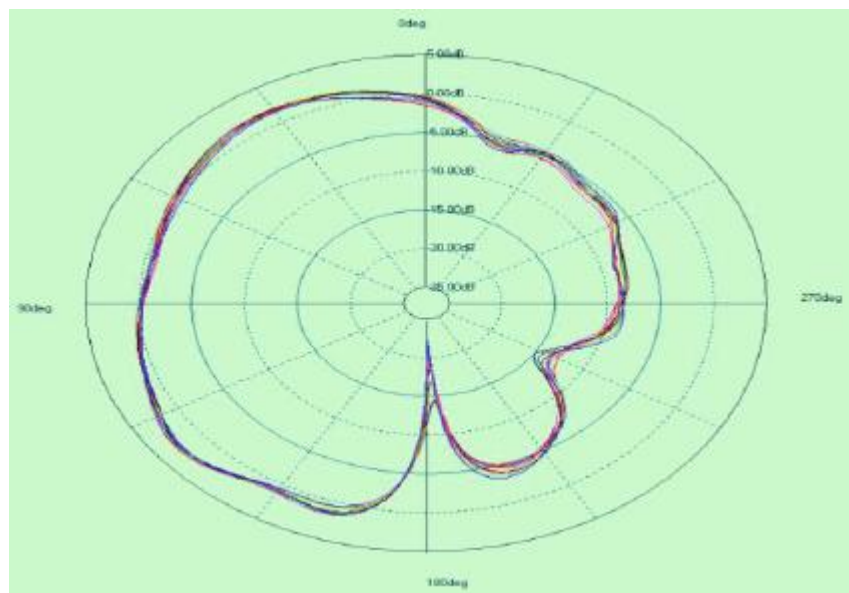
2490MHz frequency: 1.75dbi

2500MHz frequency: 1.78dbi

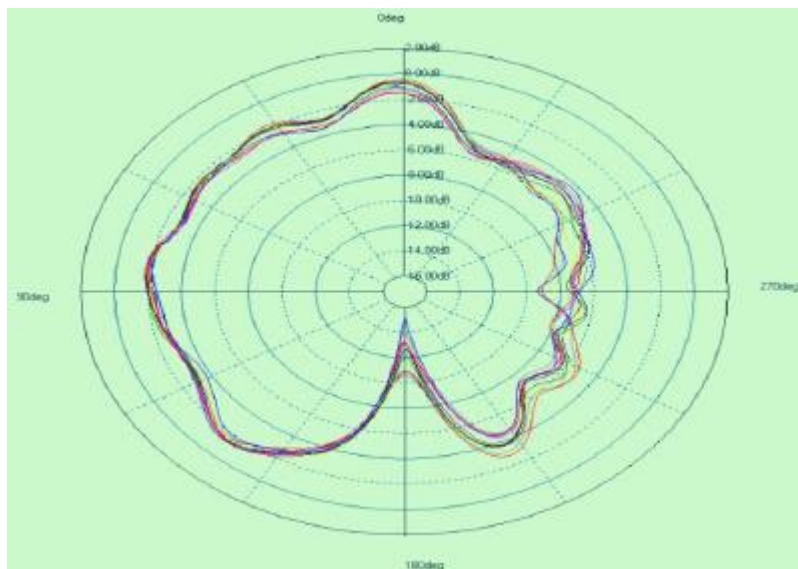
6.01 directional diagram (xy plane, $Z=0$)



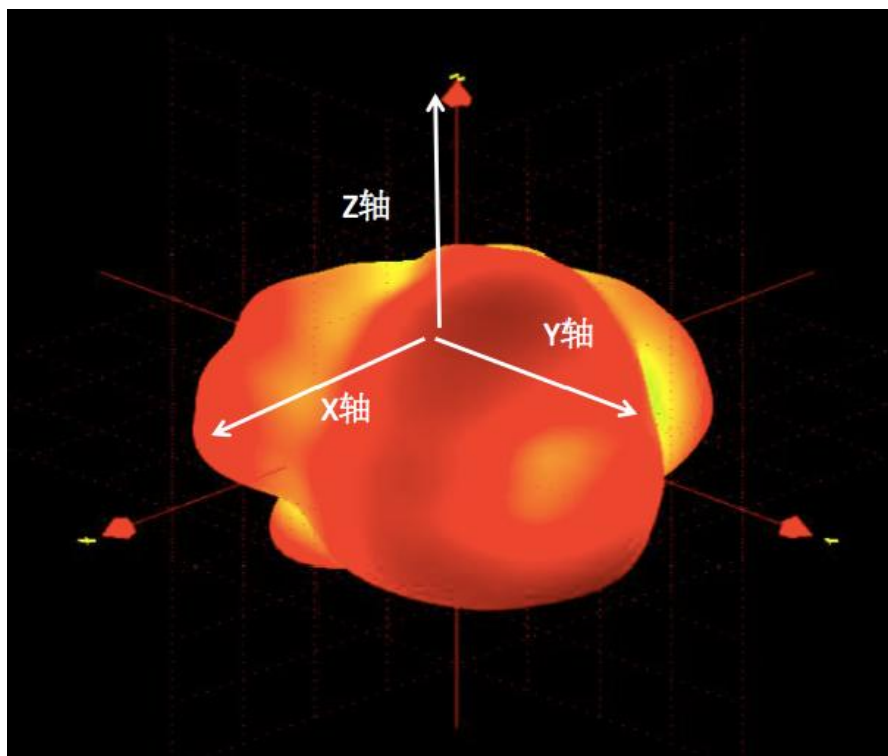
6.02 directional diagram (xy plane, $Y=0$)



6.03 directional diagram(YZ plane, X=0)



6.03 Apple Chart



7. Installation method

