

Inverted F Antenna Specification

MANUFACTURE : Sinco Intelligent Technology Co., Ltd.

PRODUCT NAME : Wireless Guitar System

DATE : 2025-10-30

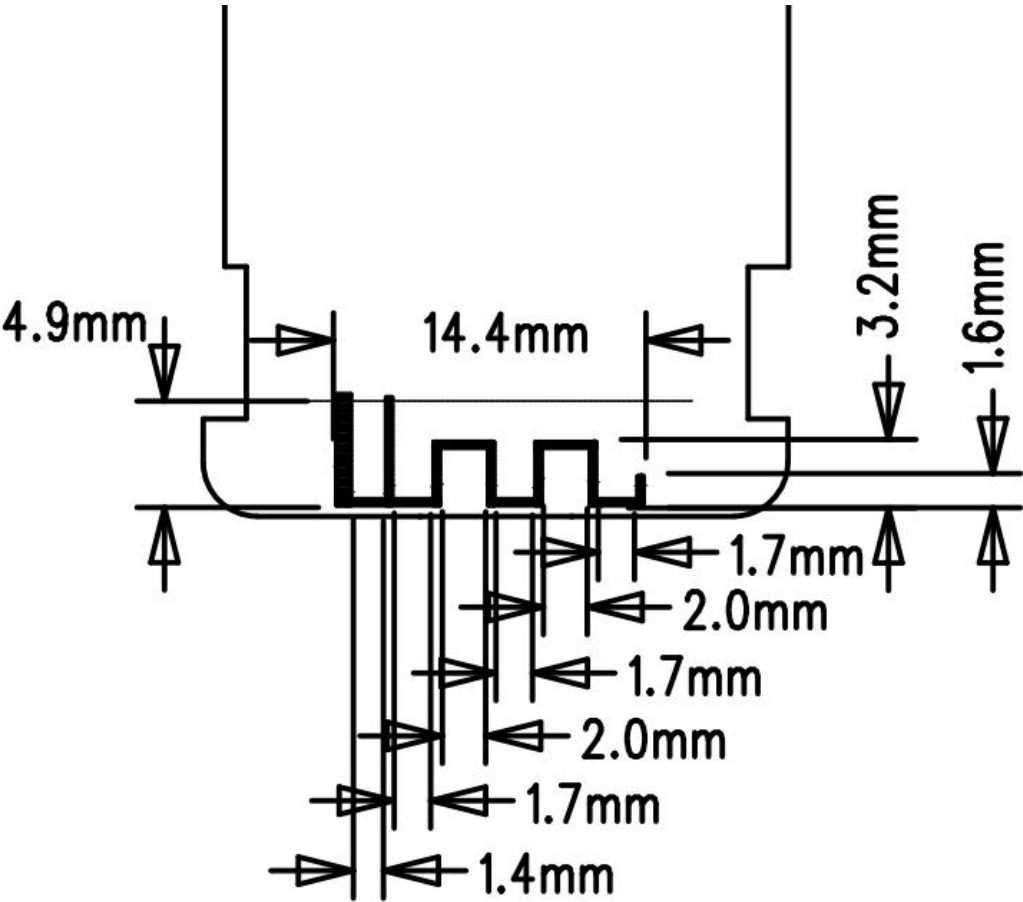
1. Antenna description

Antenna plate: Inverted F Antenna

Frequency range:2.4GHz-2.5GHz

ITEM Name	Inverted F Antenna Specification
Model Name	2.4GHz Antenna
Polarization	Horizontal and Vertical
Azimuth Beam Pattern	Omni-directional
Antenna Lenth	14.4mm
Gain(Max)	0.67 dBi
Antenna Type	PCB Antenna

2. Antenna Photo& Length (mm)

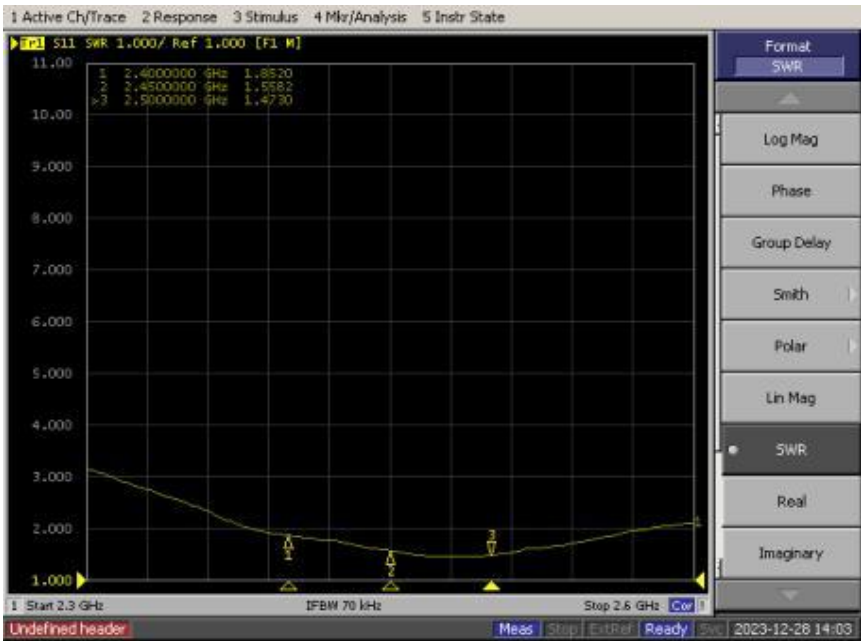


3. Gain

Frequency	Gain(dBi)	Efficiency (%)
2400MHz	0.67	31
2410MHz	0.39	31
2420MHz	0.31	30
2430MHz	0.38	30
2440MHz	0.33	30
2450MHz	0.25	30
2460MHz	0.28	31
2470MHz	0.45	32
2480MHz	0.62	32
2490MHz	0.57	31
2500MHz	0.55	31

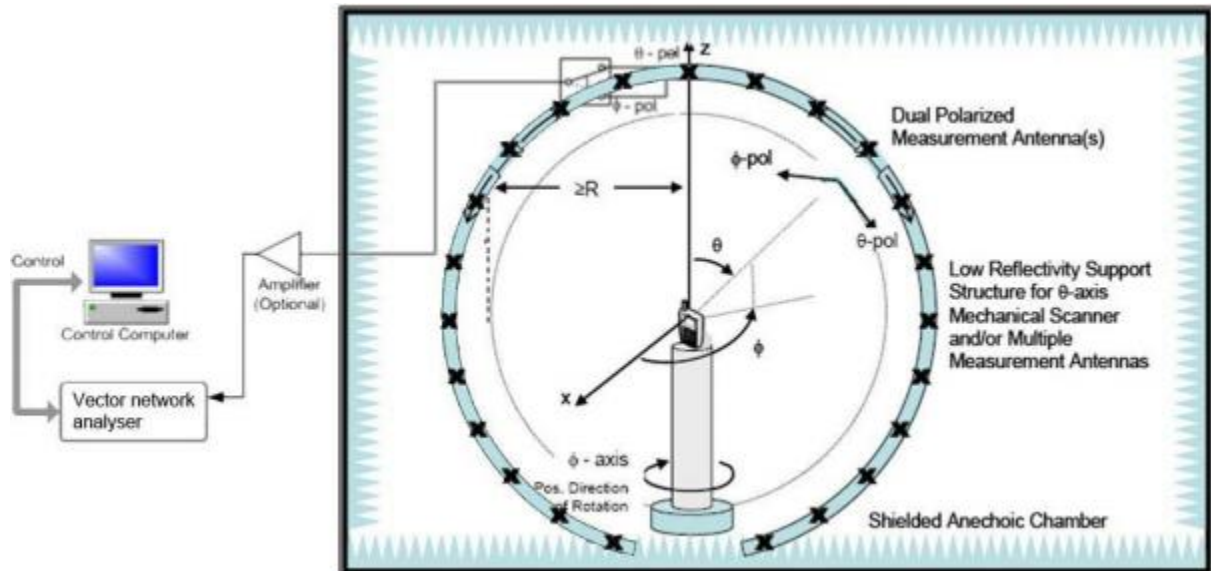
4. VSWR

Frequency	VSWR
2400 MHz	1.85
2450MHz	1.56
2500MHz	1.47



Annex A Photographs

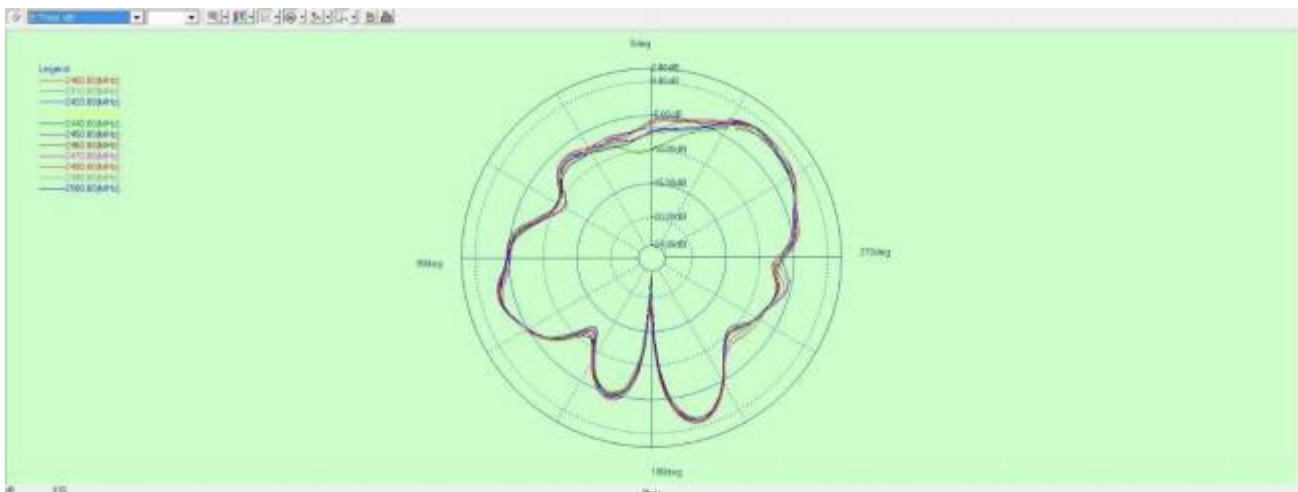
1. Test Setup



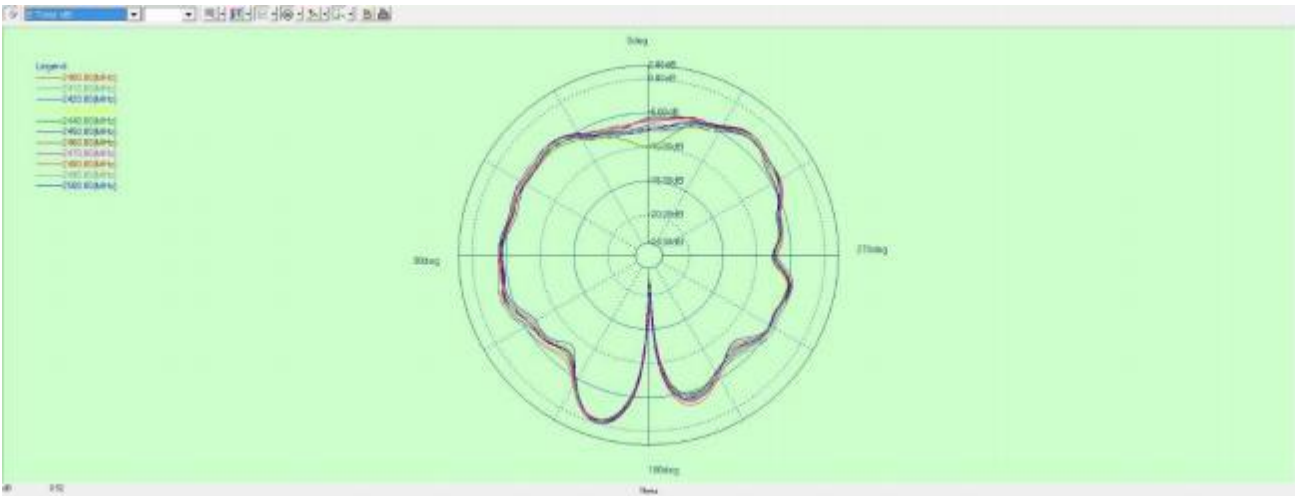
Annex B Figures

1. 2D Radiation Pattern

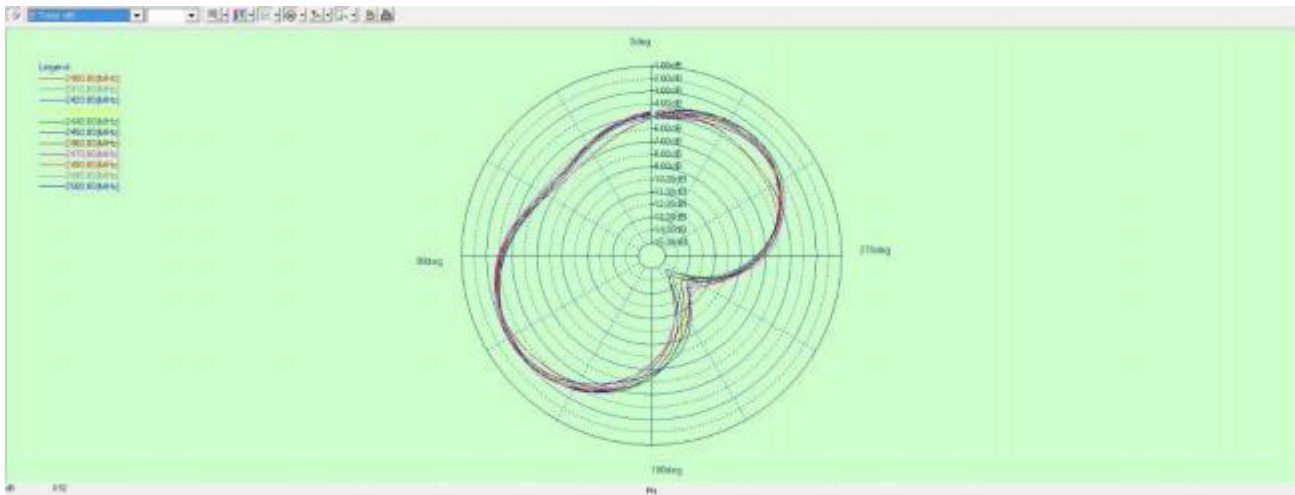
$\Phi = 0^\circ$



Phi=90°

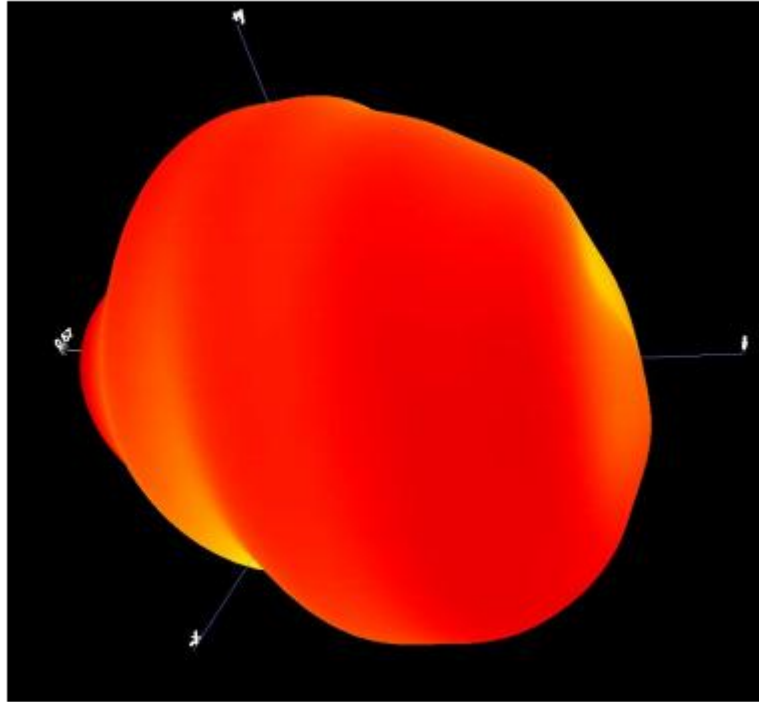


Theta=90°

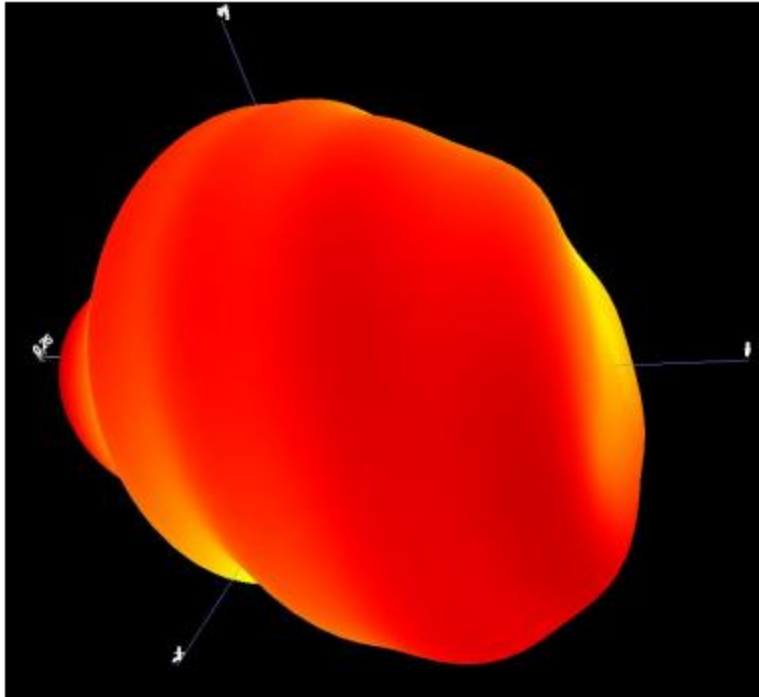


2. 3D Radiation Pattern

B1.1 3D Pattern for 2400MHz



B1.2 3D Pattern for 2450MHz



B1.3 3D Pattern for 2500 MHz

