

Inverted F Antenna Specification

MANUFACTURE : Huizhou Huaxinwei Technology Co.,Ltd.

PRODUCT NAME : 2.4G-2DB-55MM

DATE : 2019-10-30

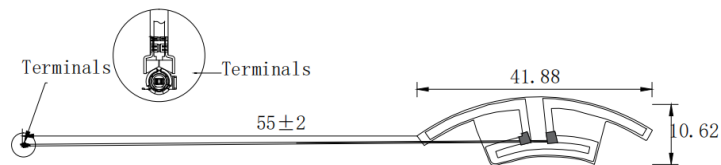
1. Antenna describe

Antenna plate: FPC Antenna

Frequency range: 2.4GHz-2.48GHz

ITEM Name	FPCAntenna
Model Name	2.4G-2DB-55MM
Polarization	Horizontal and Vertical
Azimuth Beam Patten	Omni-directional
Impedance	50 Ohm
Antenna Lengh	55mm
Gain(Max)	2.81dBi

2. Antenna Photo& Lengh (mm)



3. Gain

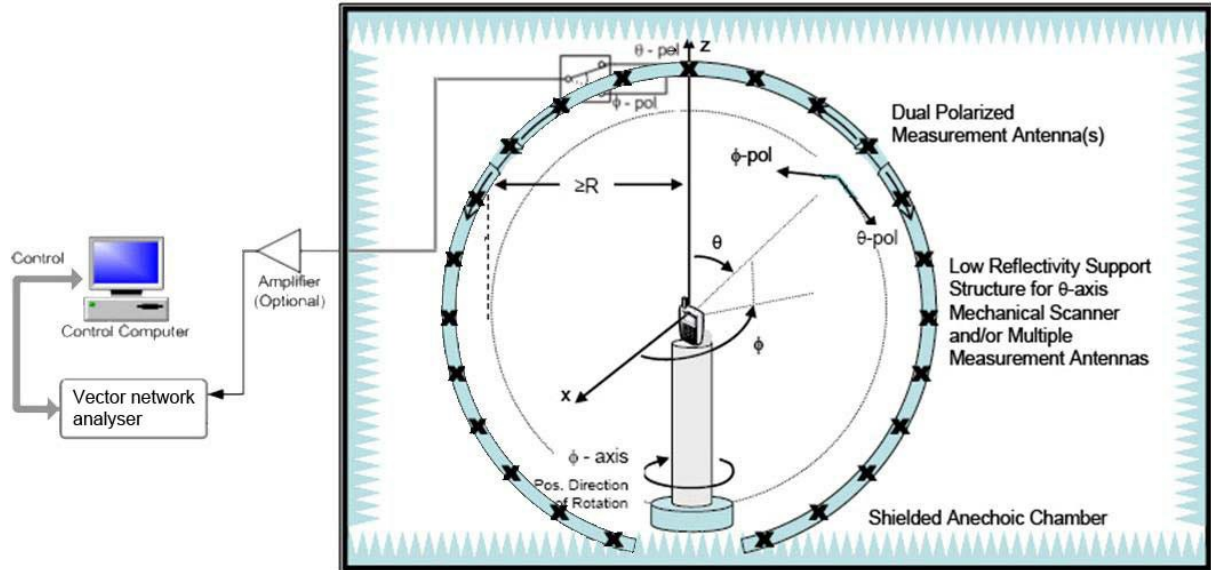
Frequency	Gain (dBi)
2400MHz	2.67
2410MHz	2.71
2420MHz	2.81
2430MHz	2.59
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

4. Return Loss/VSWR/Input Impedance

Frequency	Return Loss (dB)	VSWR	Input Impedance(Ω)
2400MHz	-7.23	2.53	25.37
2400MHz	-6.47	2.80	17.99
2450MHz	-6.22	2.90	17.18
2480MHz	-5.18	3.44	15.55
2500MHz	-4.56	3.89	15.48

Annex A Photographs

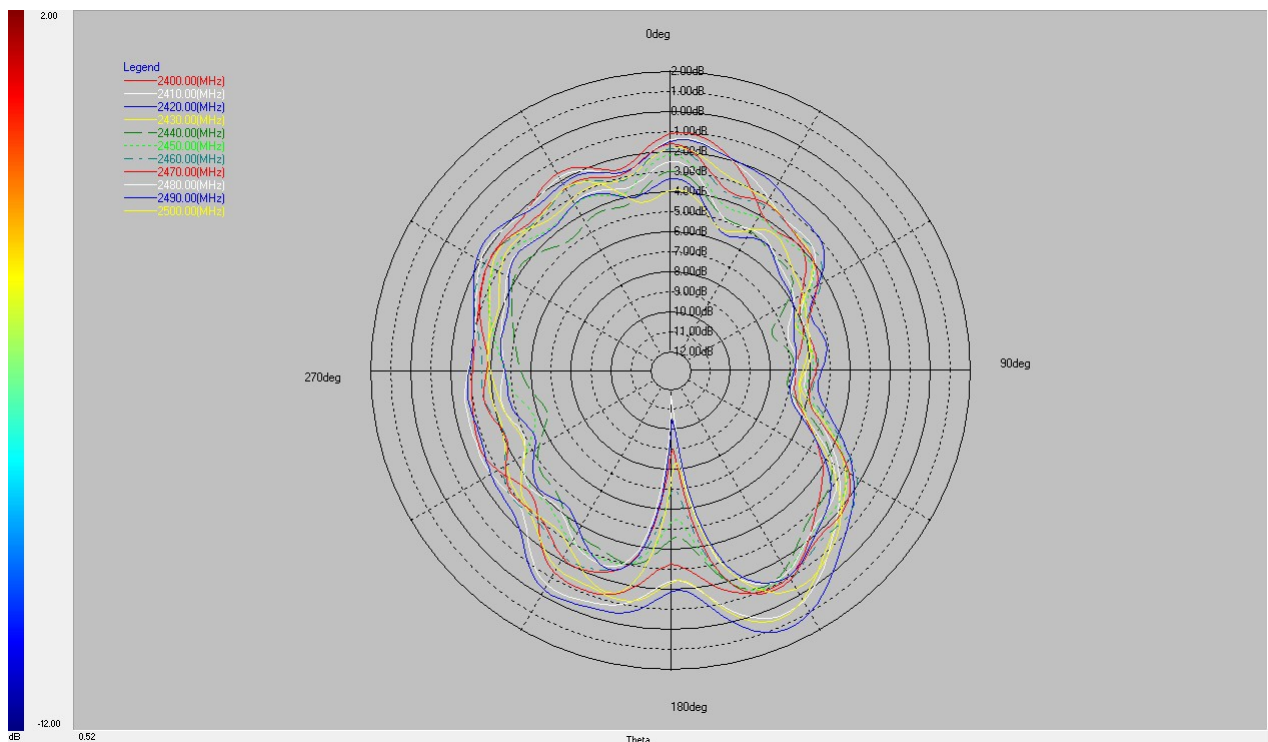
1. Test Setup



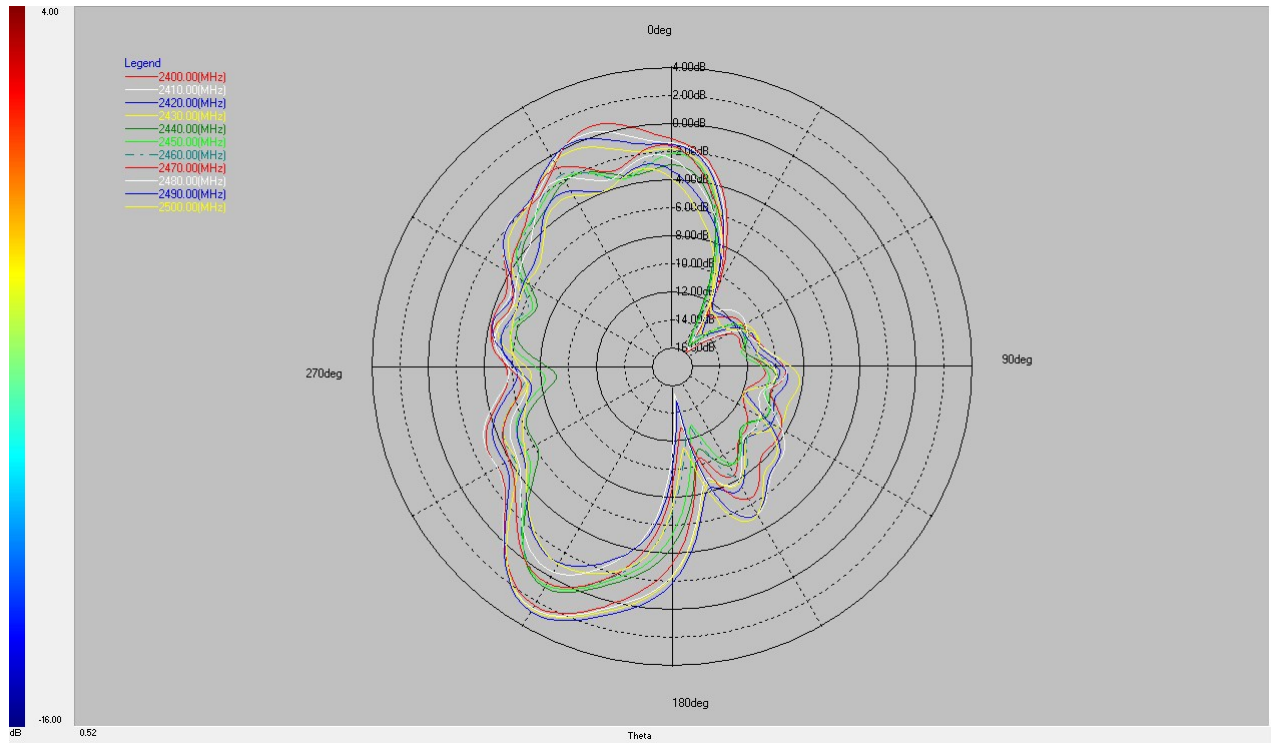
Annex B Figures

1. 2D Radiation Pattern

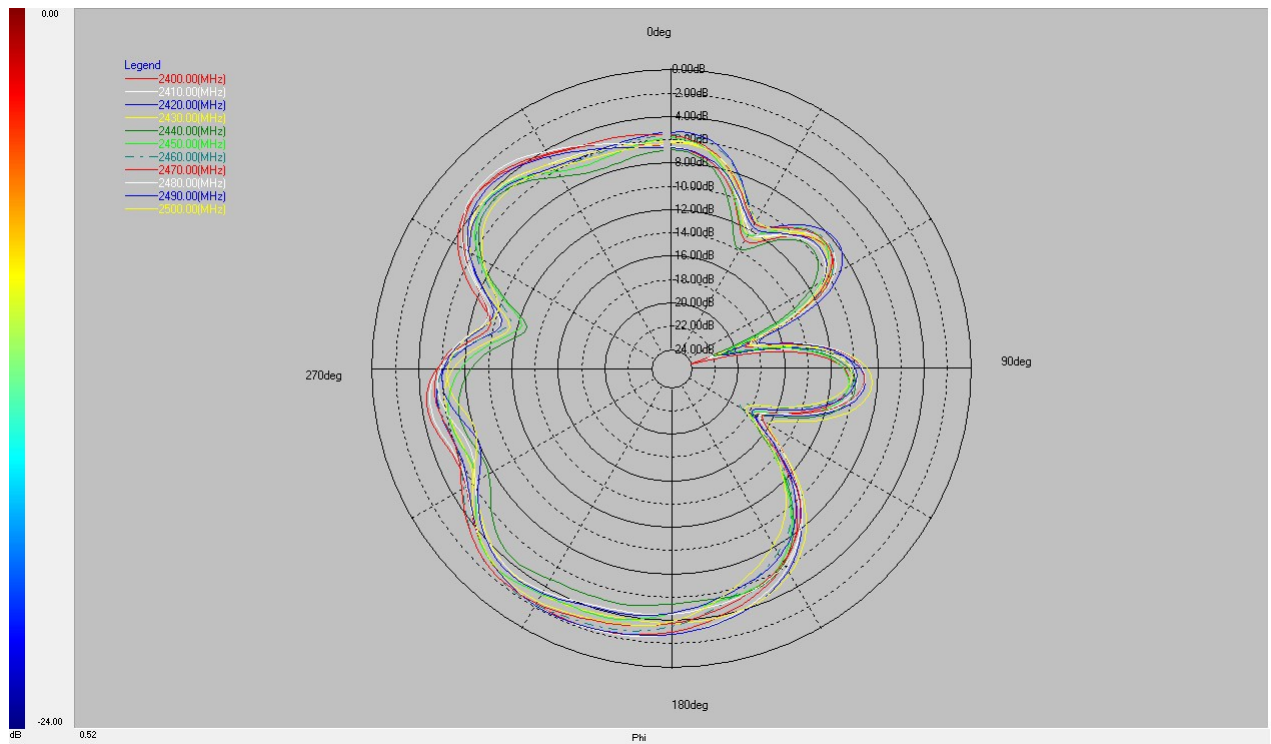
$\Phi=0^\circ$



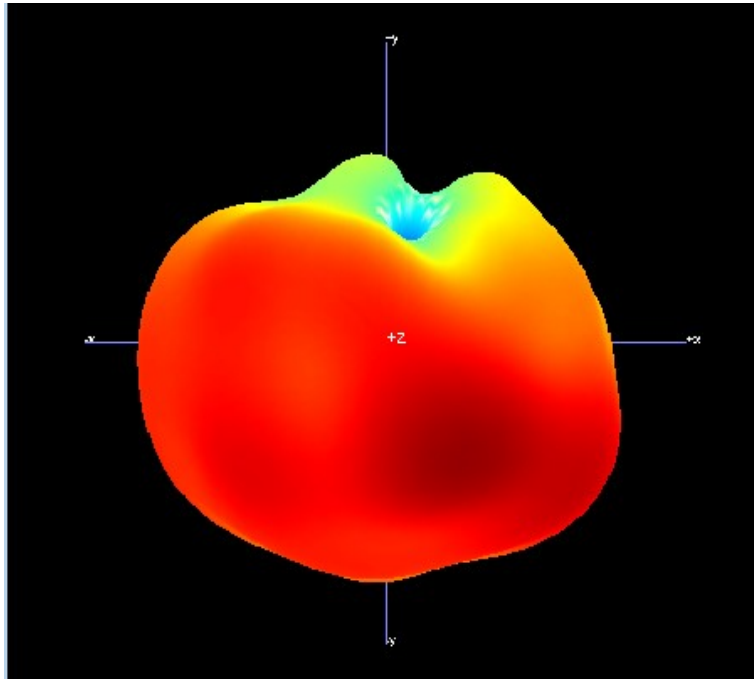
Phi=90°



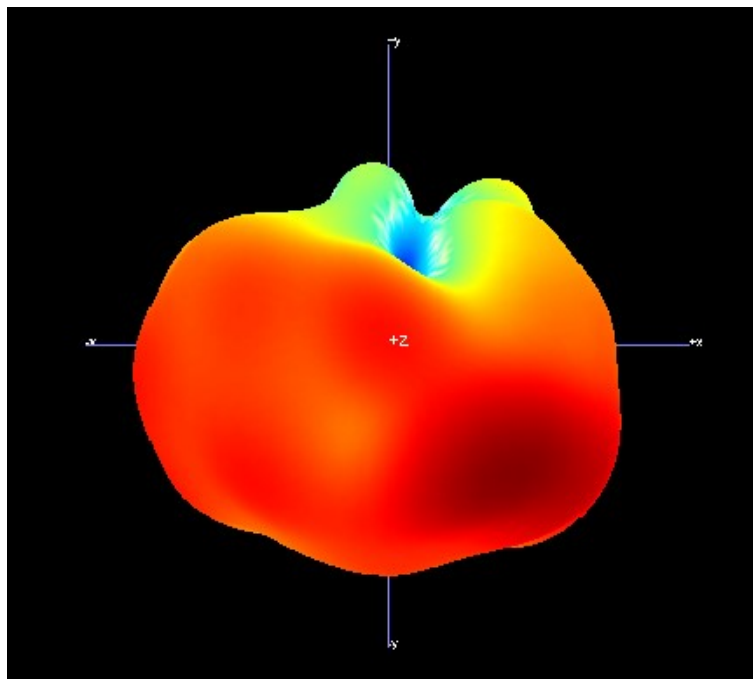
Theta=90°



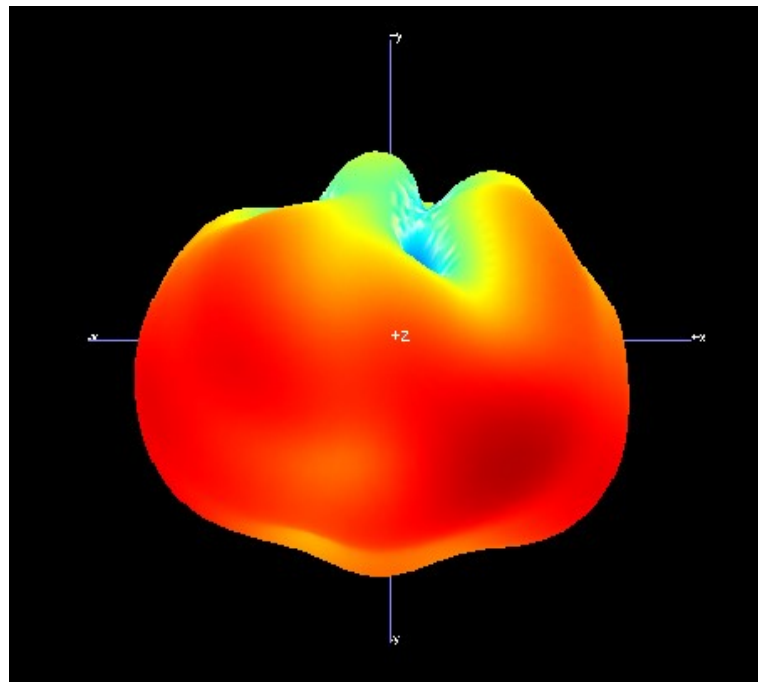
2. 3D Radiation Pattern



2400MHz

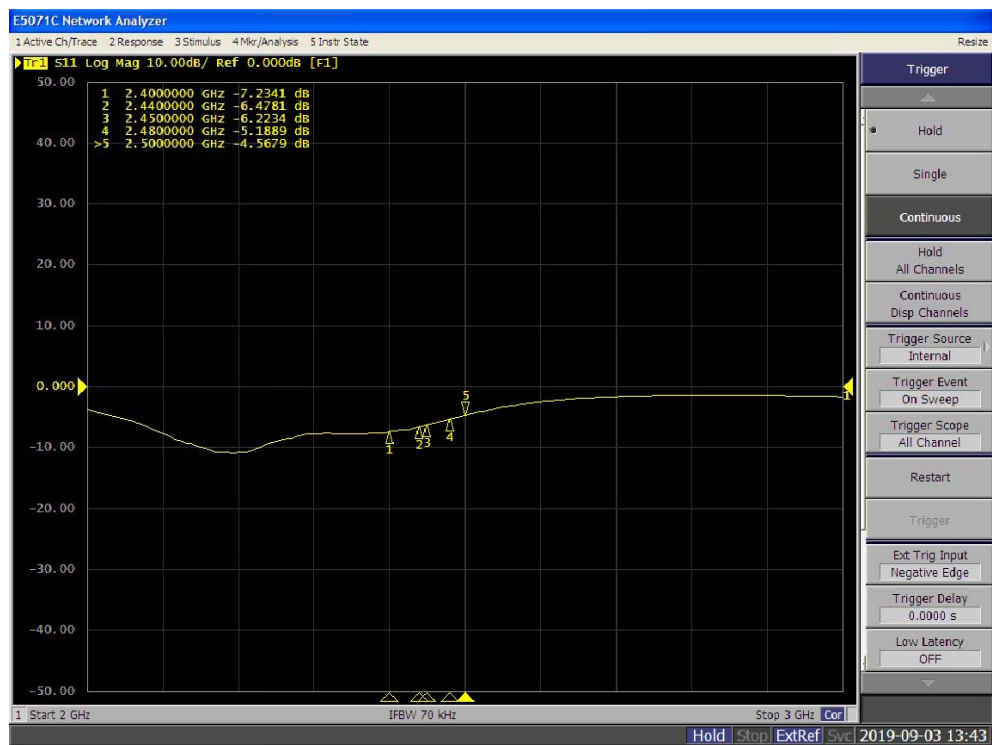


2450MHz

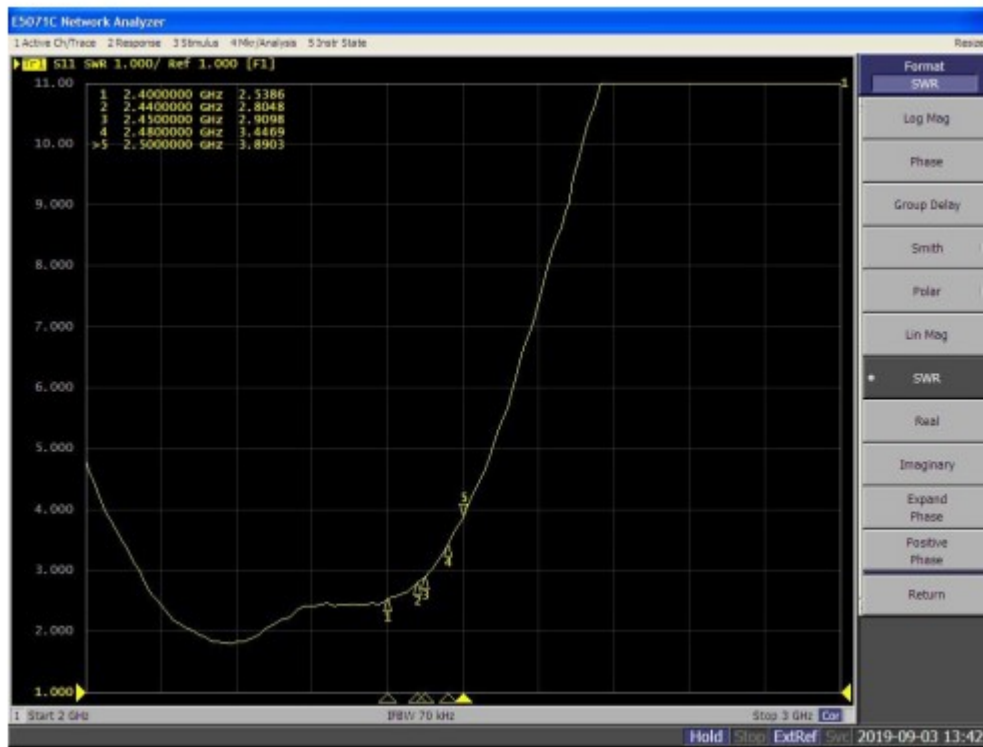


2500MH

3. Return Loss



4. VSWR



END