

Shenzhen Shenghua Electronics Co.,Ltd.
Product Specifications for Approval

ANT TYPE :	
FPC ANT-Ring Stripped Tinned-1.37 Wire-Double Tinned-Black-L=125MM	
DESCRIPTION	VALUE
Frequency range	2400-2500/5150-5850MHz
Impedance	50 Ω
V.S.W.R	<2.0
Gain	2DBi
Radiation	Omni-directional
Polarization	linear Vertical
Admitted power	1W
Connector	/
Operating temp	-45℃~+85℃
Storage temp	-45℃~+85℃
Manufacture	Shenzhen Shenghua Electronics Co.,Ltd.

1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement S :

A. Reflection coefficient

(a) Instrument: Network Analyzer .

(b) Setup:

- (1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.
- (2) Connect the antenna under test to the Network Analyzer.
- (3) Measure the S11(reflection coefficient) shown in Fig. 1.
- (4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

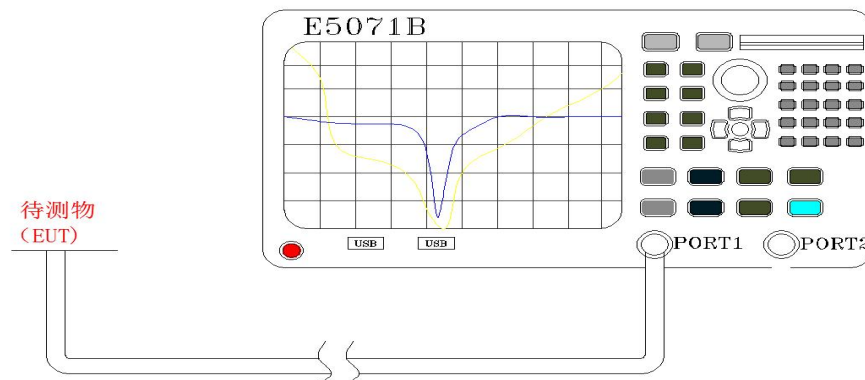


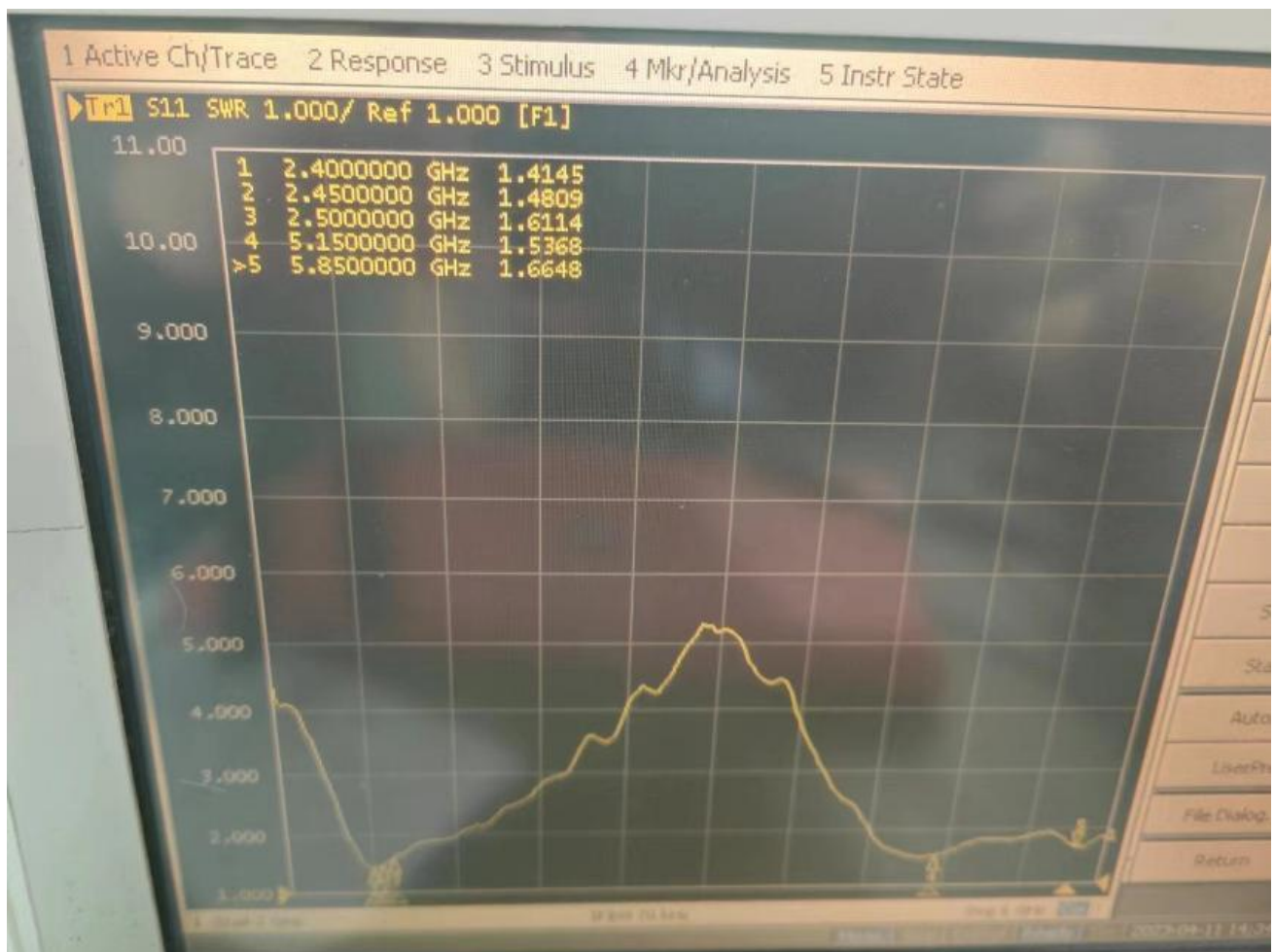
Fig.1 Antenna measured in Network Analyzer

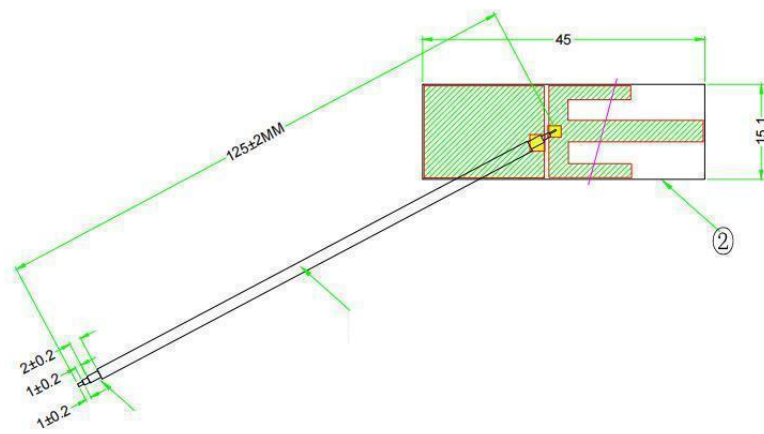
3. S-Parameter Measurement Result:

S-Parameter test data

Frequency MHz	2400	2450	2500	5150	5850
V.S.W.R	1.41	1.48	1.61	1.53	1.66

S-Parameter test image

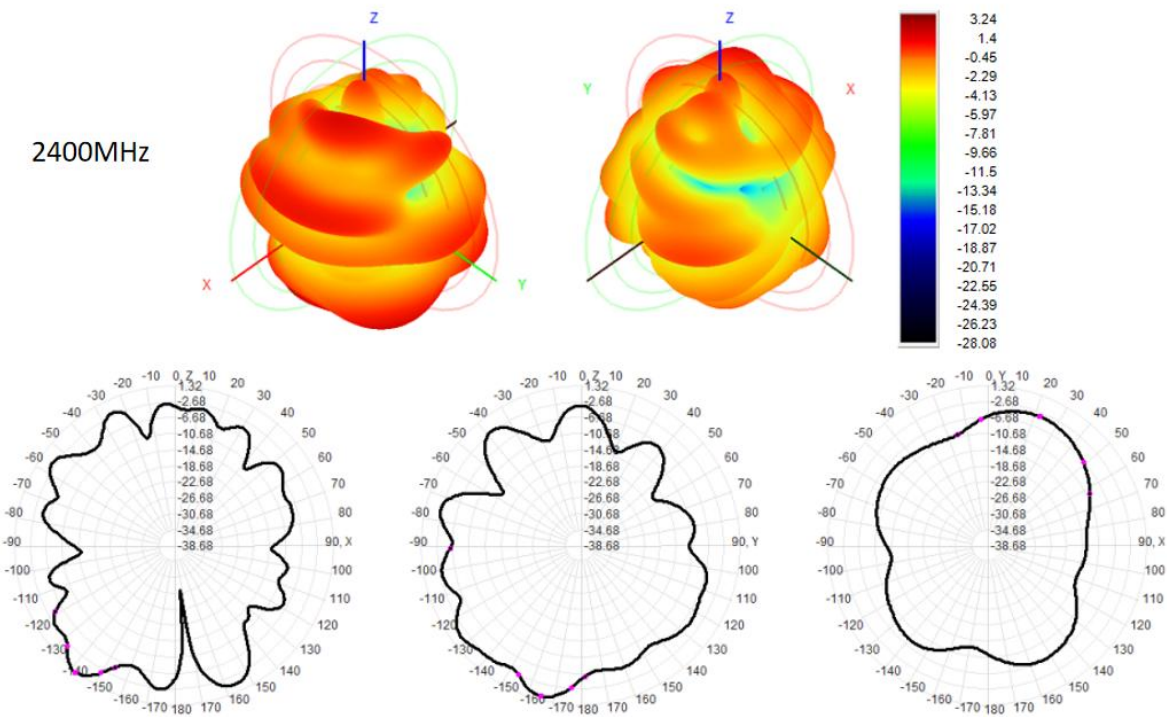




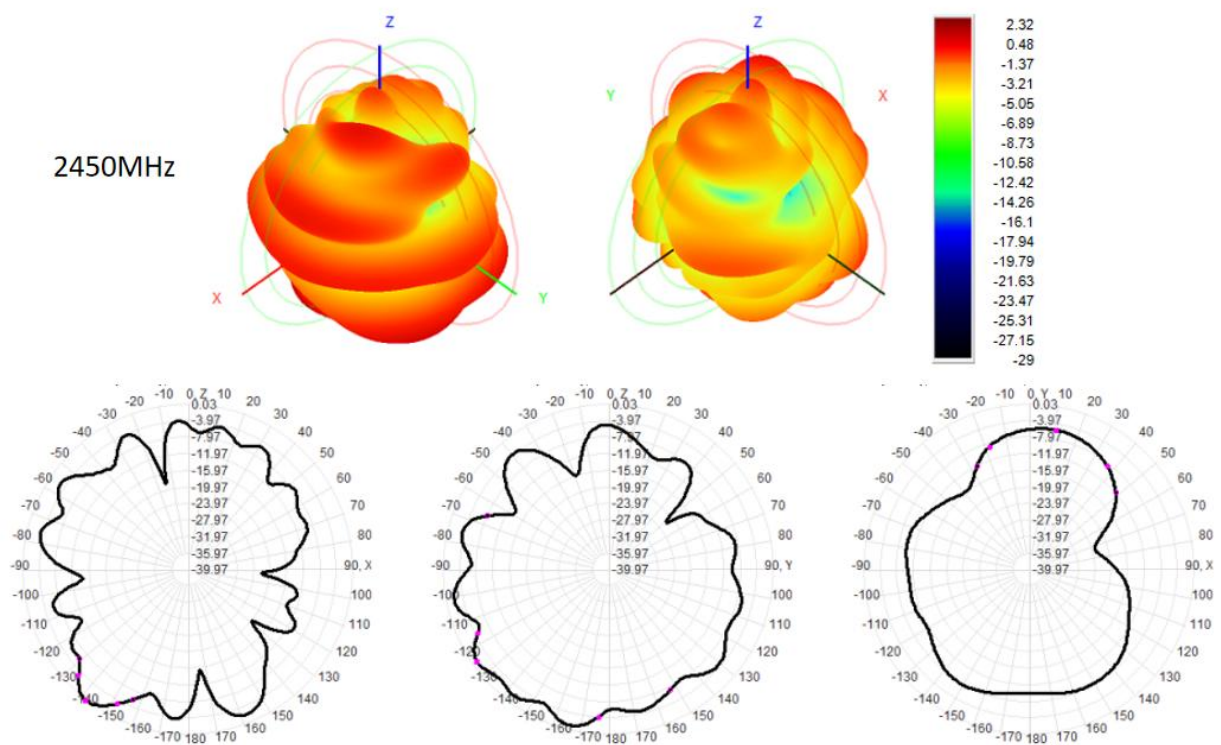
passive value:

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	28.37	1.71
2450	23.71	1.83
2500	29.70	1.88
5150	32.45	1.94
5850	40.68	2.02

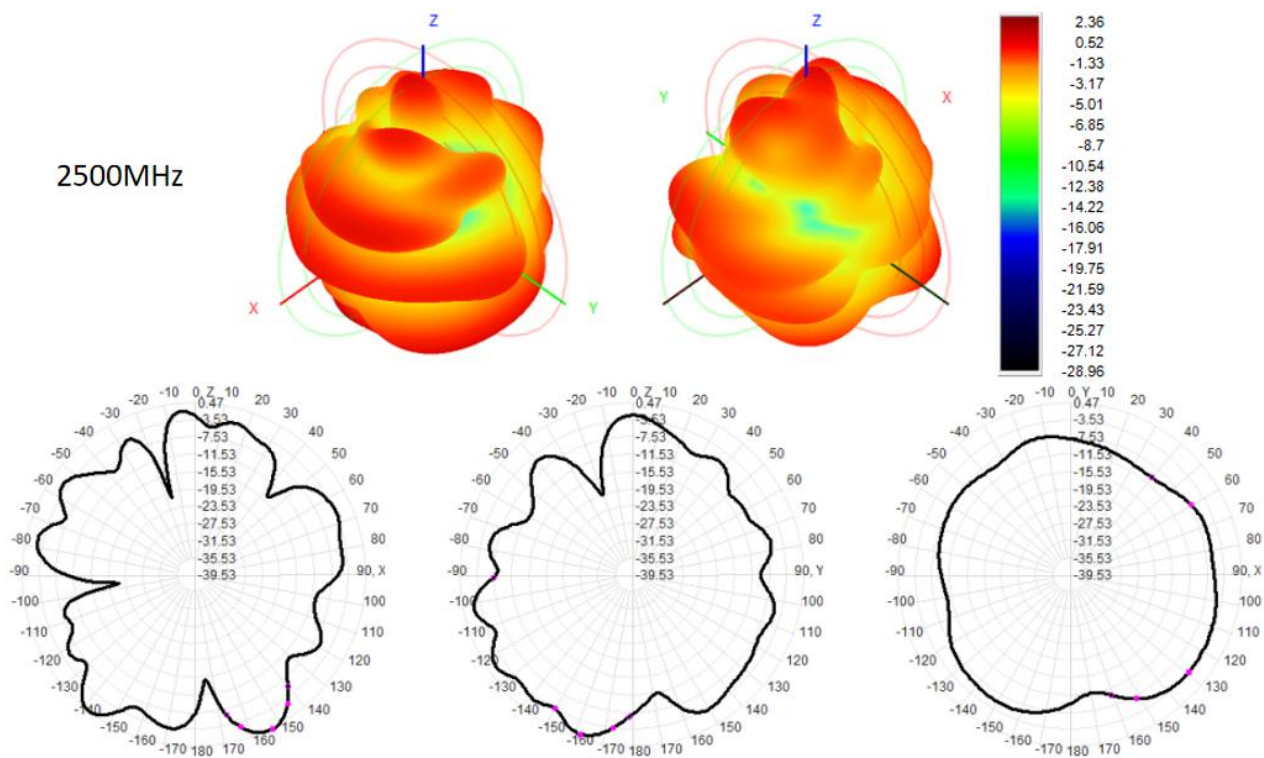
2D、3D



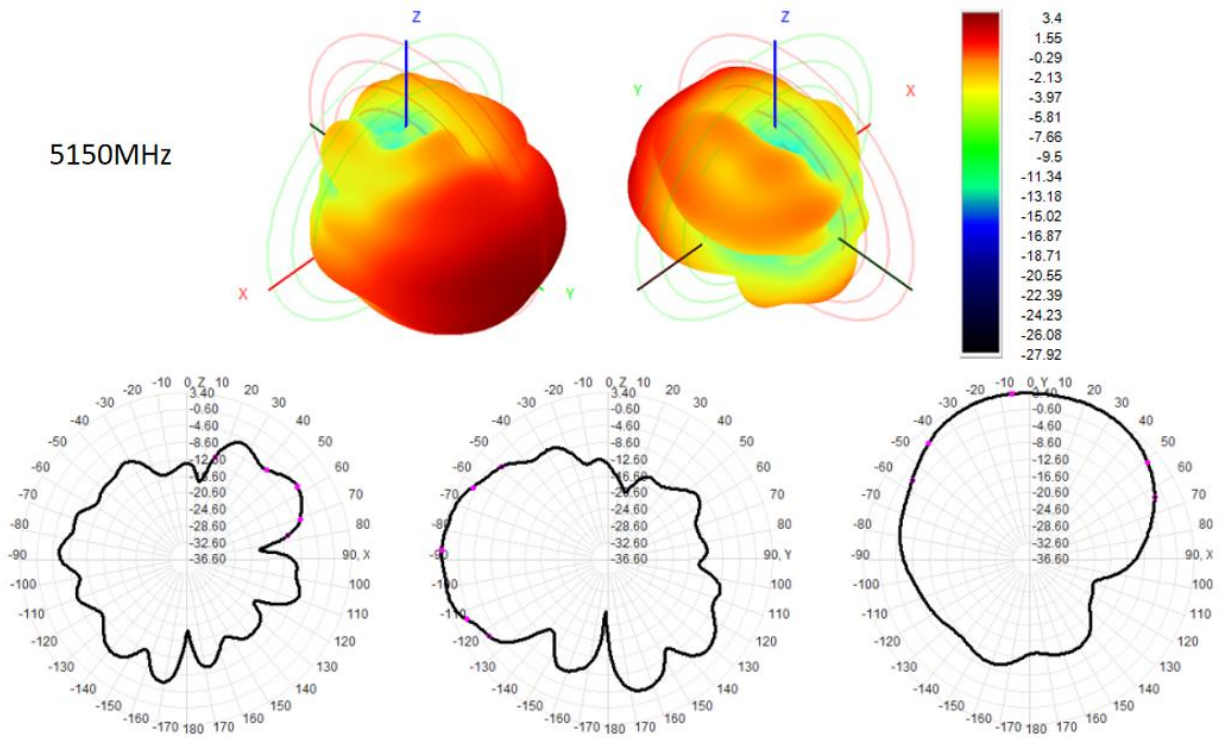
2450MHz



2500MHz



5150MHz



5850MHz

