

STPCA351050IBA101-K11S Specification

2.4G Dipole Antenna

1. Feature

- * ϕ 0.81 Black Cable
- * E-CONN Gen3 Terminal
- * ROHS compliance

2. Application

- * 2.4G Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

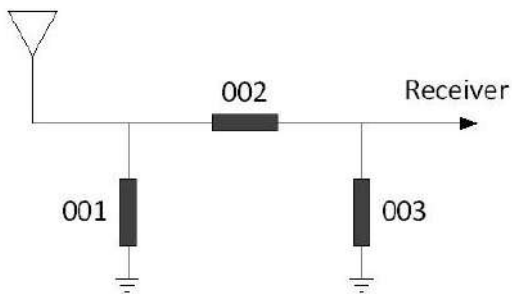
The antenna was specially designed by Suzhou Tongxie Electronics Co.,Ltd, for 2.4G PCB Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	2.4G PCB Antenna
Part No.	STPCA351050IBA101-K11S
Frequency	2400~2500MHz
V.S.W.R	≤ 2.0
Gain (dBi)	4.08dBi
Polarization	Vertical
Term of validity	one year
Storage Temp	$23 \pm 5^{\circ}\text{C}$
Operating Temperature	$-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
Impedance with Matching	50 Ω
Dimension	L35*W10(mm)

5. Typical Electrical Characteristics

- Recommend Matching Circuit



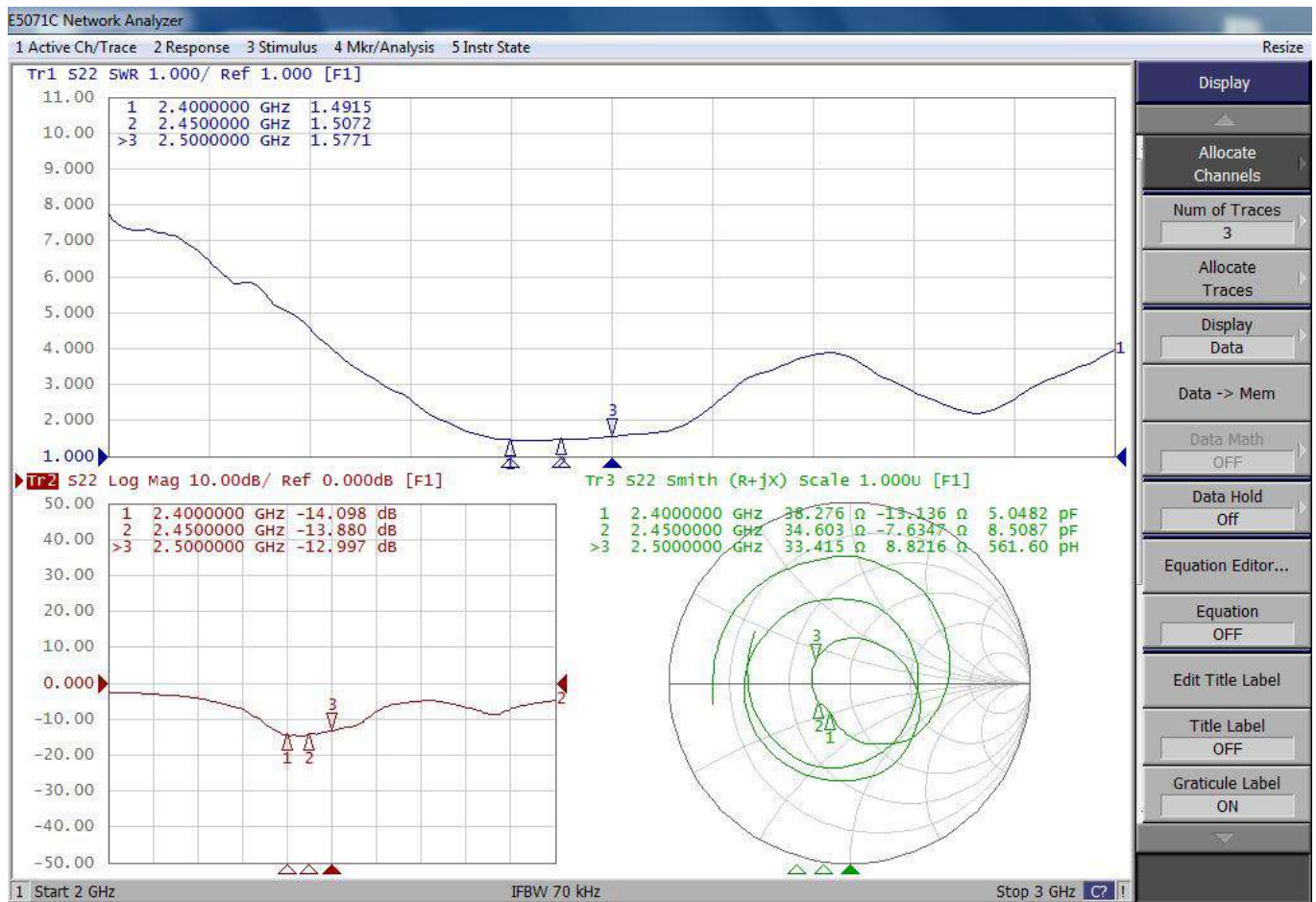
Reference:

001=(N/A)

002=0 Ω

003=(N/A)

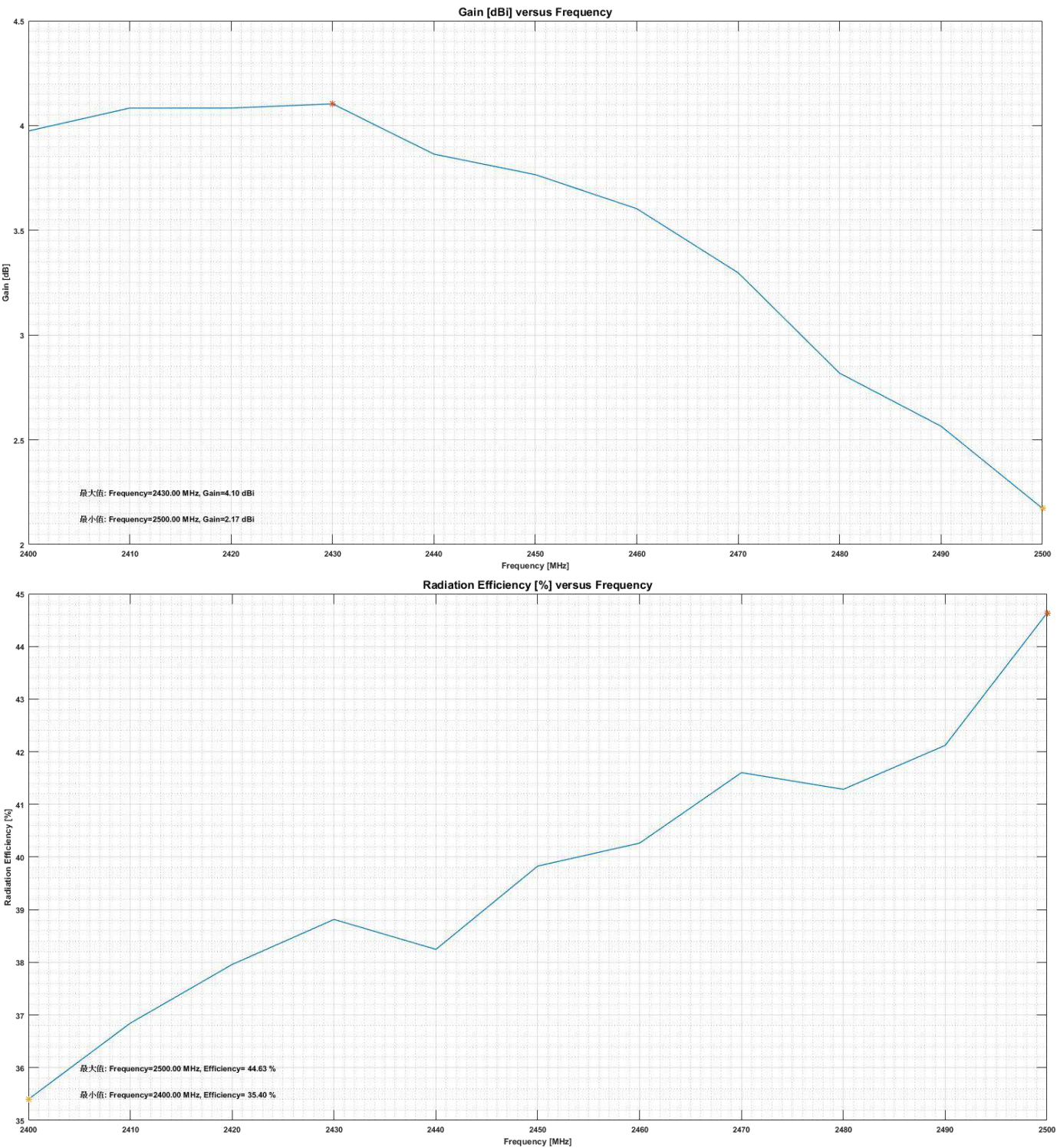
- Return loss、VSWR& Smith chart



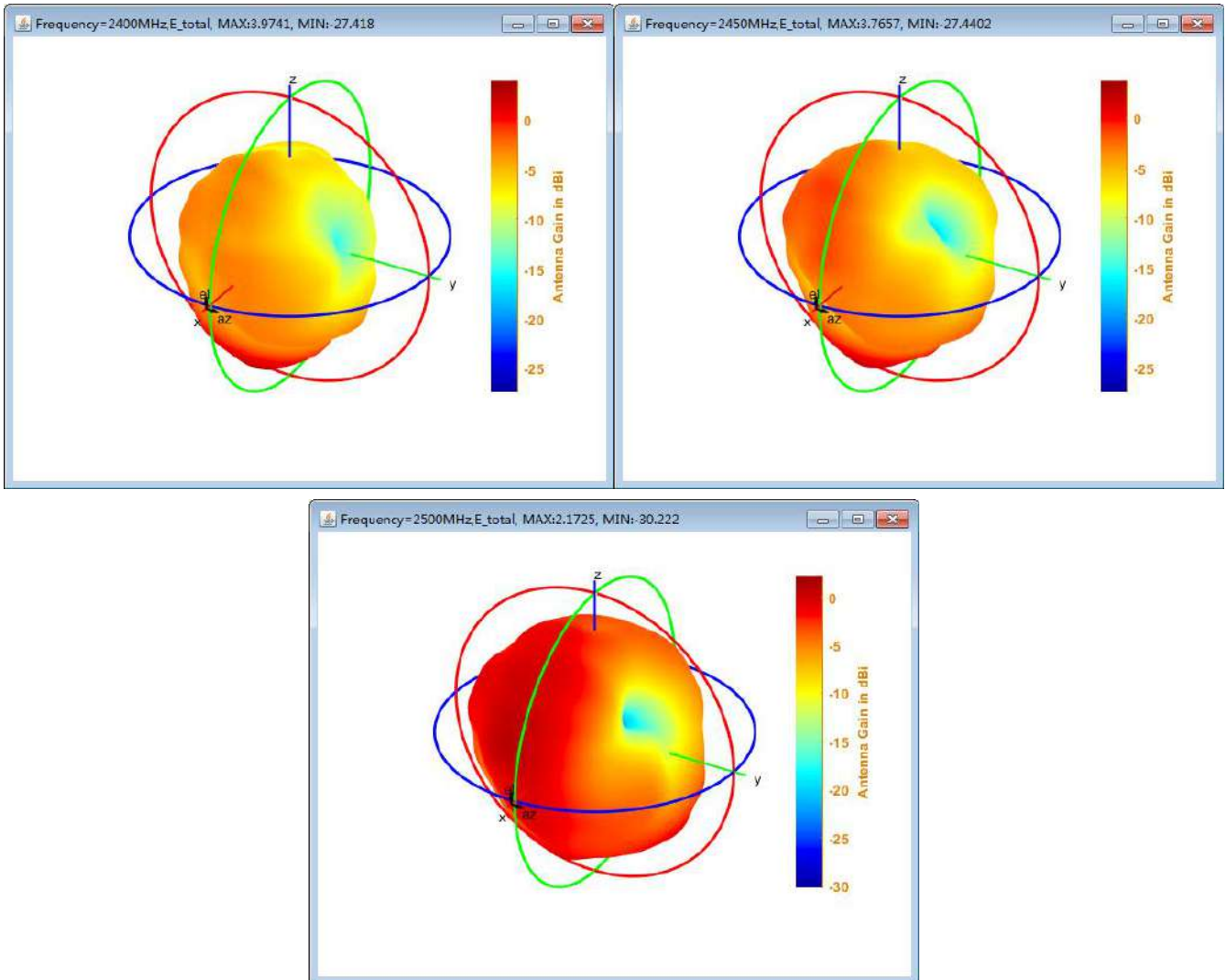
Frequency Total Data

Frequency (MHz)	Directivity (dBi)	Gain (dBi)	Efficiency (dBi)	Efficiency (%)
2400	8.484	3.9741	-4.5099	35.4004
2410	8.4197	4.0835	-4.3362	36.845
2420	8.2904	4.0836	-4.2067	37.96
2430	8.2137	4.1037	-4.11	38.8151
2440	8.0377	3.8636	-4.1741	38.2463
2450	7.7638	3.7657	-3.998	39.8286
2460	7.5539	3.6031	-3.9508	40.2646
2470	7.1058	3.297	-3.8088	41.6029
2480	6.6597	2.8177	-3.8419	41.2865
2490	6.3197	2.5648	-3.755	42.1212
2500	5.6758	2.1725	-3.5033	44.6345

Gain(dBi)&Efficiency(%)



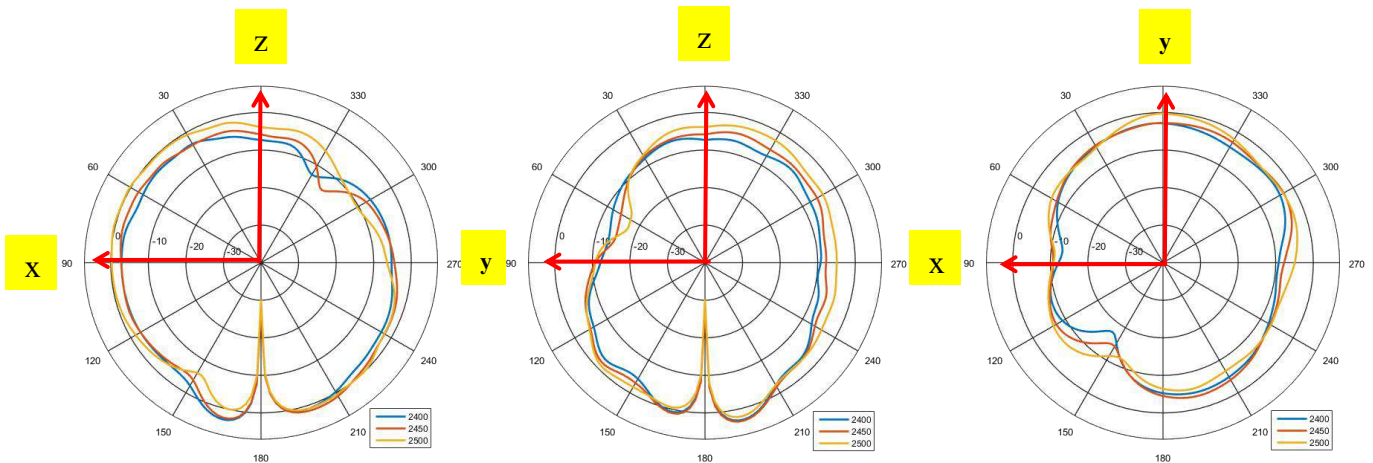
2D&3D test pattern



XZ Plane

YZ Plane

XY Plane



6. Dimension

