



Antenna Specification

Manufacture: SYL

Product Name: ST646A Antenna

Antenna Type: PCB

Test Date: 2026/08/15

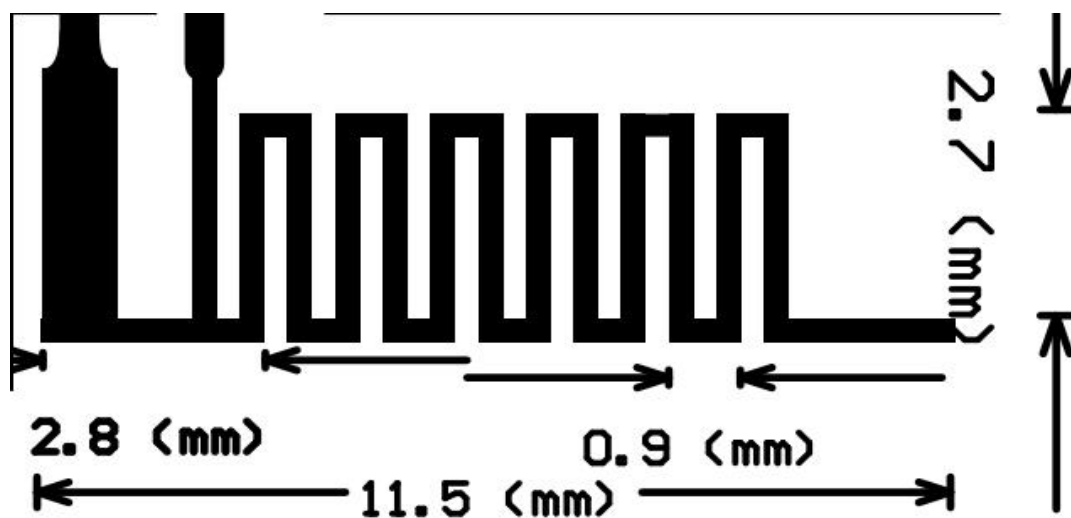
Tested by:	Checked By:	Approved By:
ChengMingWei	DuLin	QianCongGen



1. General Description

Manufacturer:	Dong Guan SYL Technology CO.,LTD
Address:	Room 203,DongHui Industrial Park,No.198 DaTang Road, DongGuan, Guangdong,China
Product Name:	ST646A Antenna
Product model:	ST646A
Antenna Type:	PCB Antenna
Test Frequency:	2400-2500MHz
Antenna Gain:	1.9dBi
VSWR:	<1.2
Impedance:	70Ω
Polarization:	Linear

2. Antenna size:

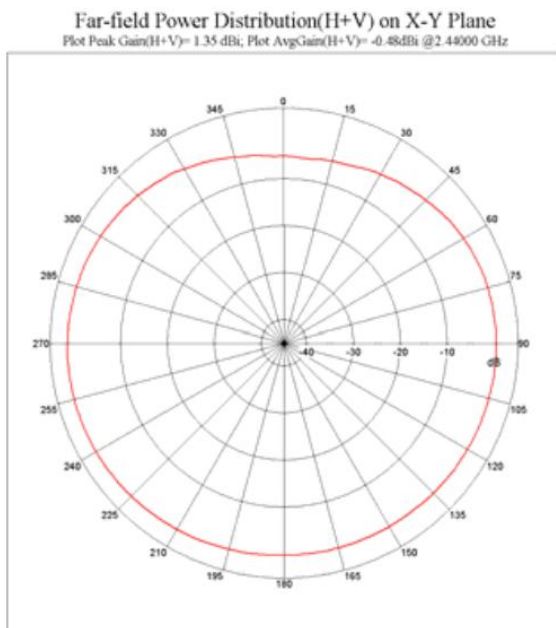


[illegible]

4.ReturnLoss



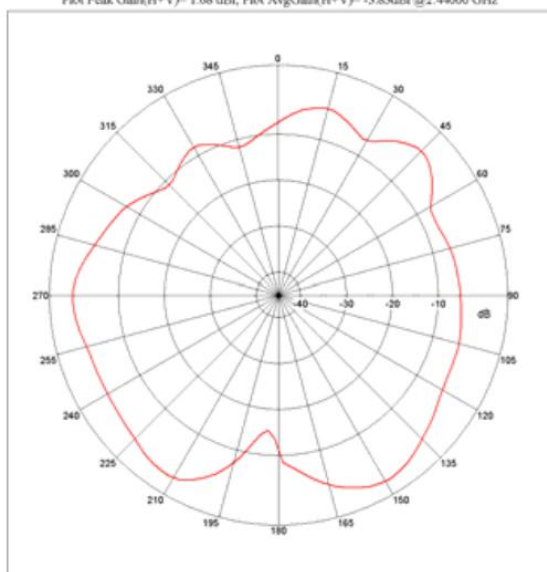
5.XY-Plane





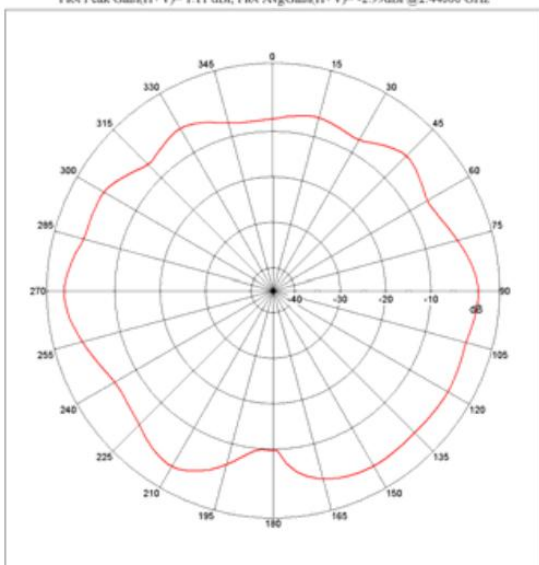
6.XZ-Plane

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 1.68 dBi; Plot AvgGain(H+V)= -3.83dBi @2.44000 GHz

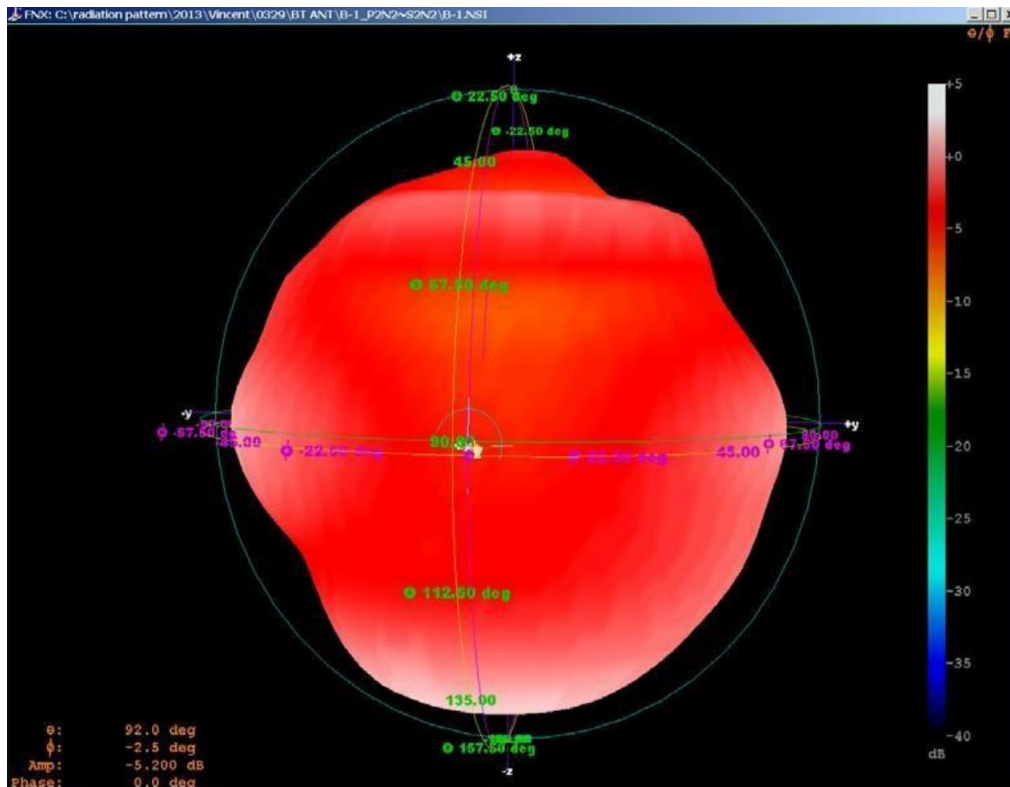


7. YZ-Plane

Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 1.11 dBi; Plot AvgGain(H+V)= -2.99dBi @2.44000 GHz



8.3D Radiation Pattern Diagram



10.Test Setup Photo

