

安特微智能通讯（深圳）有限公司

ATWE intelligent Communications(shenzhen)CO.,Ltd

编号 Number: ATW-GC-003 A/0

天线承认书 Antenna specification

客户名称：速桥电脑

Shenzhen suqiao computer technology co., Ltd

物料编码 Material code: ATWE-01-0434-010

产品名称 Product name: 2.4G/5G Antenna

签发日期 Date: 2023-04-25

一、产品材料 Product materials:

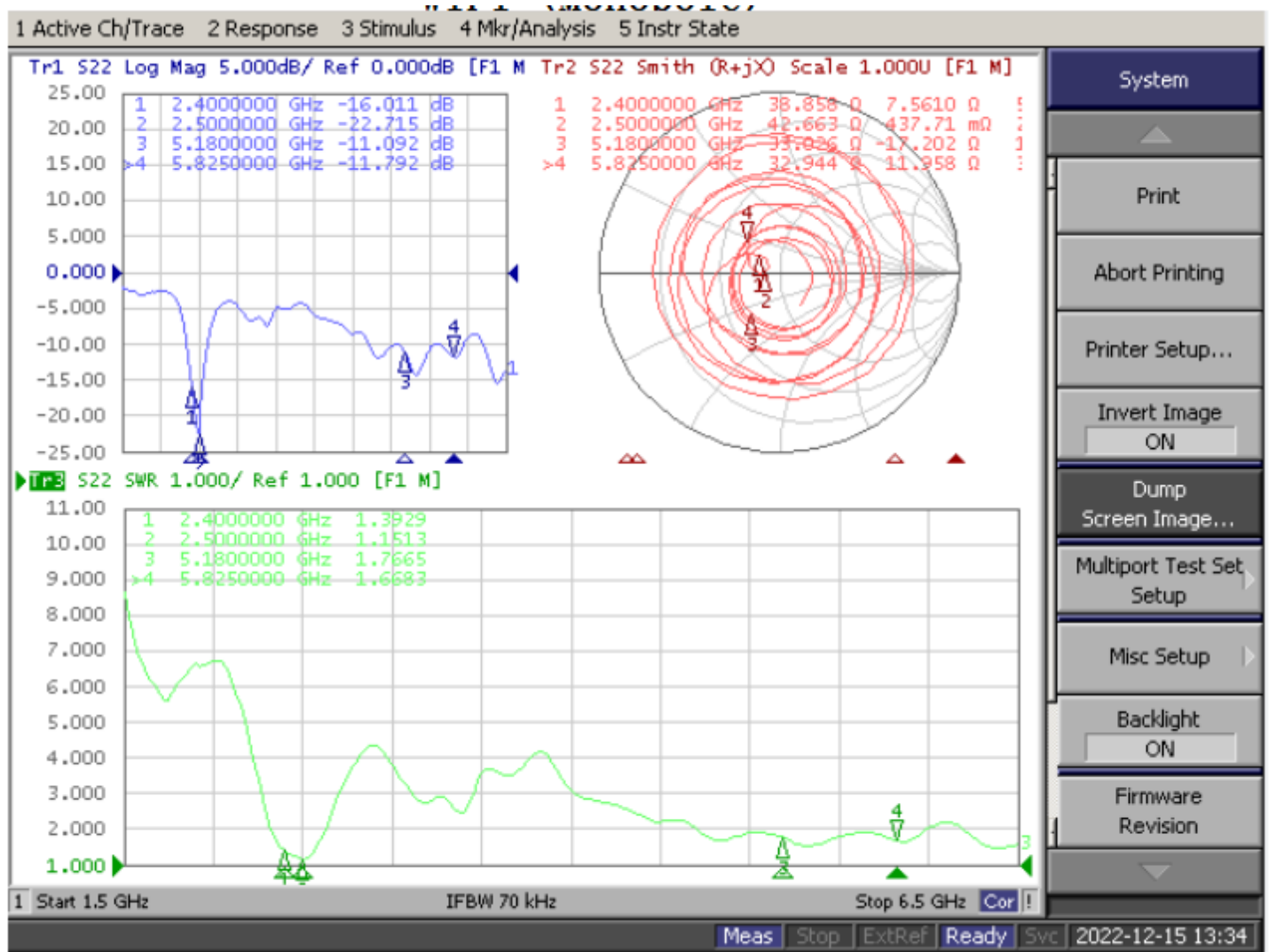
FPC 基材 FPC substrate	解铜. 一对半 Decopper One and a half
3M 胶纸 3M adhesive paper	3M9471
表面处理 Surface Treatment	丝印哑光黑油/哑白字符 Silk screen matte black oil/matte white characters

二、天线测试数据 Antenna test data

2.1 天线匹配示意图 Antenna matching diagram



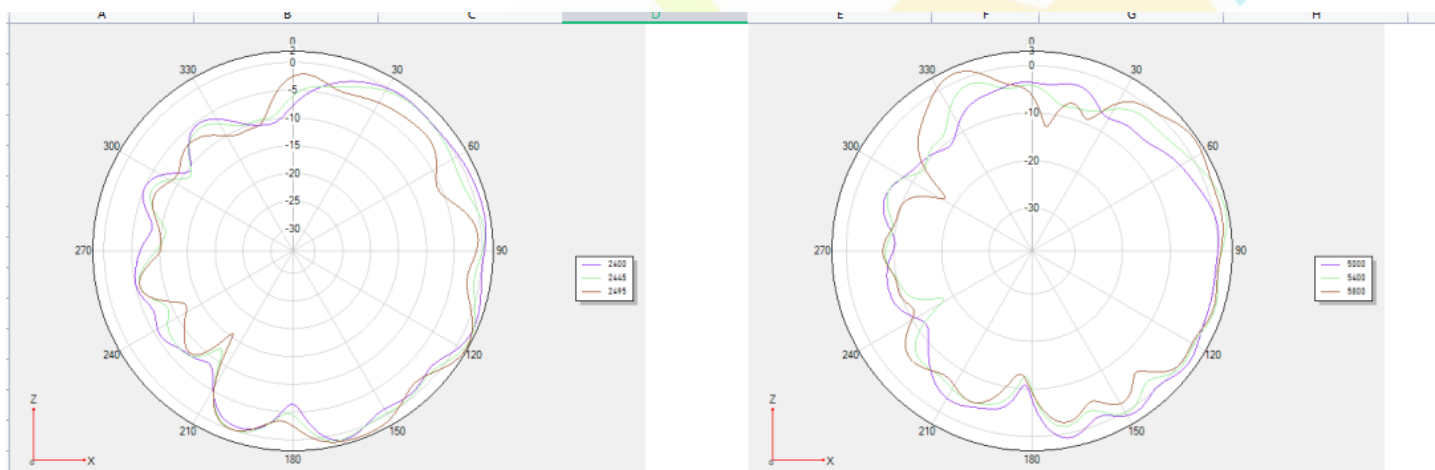
2.2 天线无源测试数据 Passive antenna test data (S11)



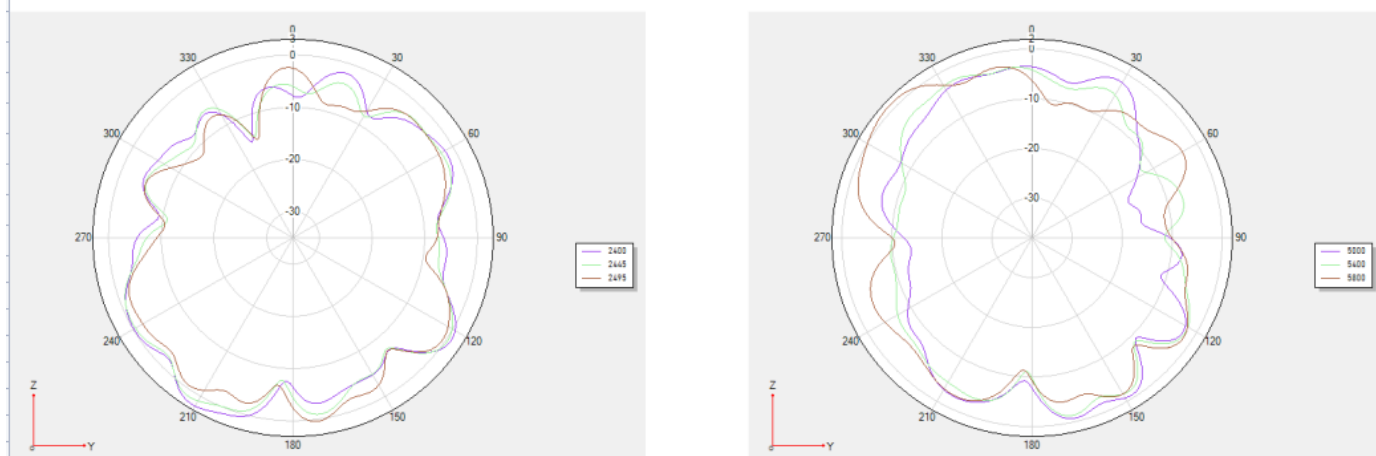
2.3 天线效率. 增益测试 Antenna efficiency - Gain testing

WIFI					
Passive Test For WIFI-2.4G			Passive Test For WIFI-5G		
Freq (MHz)	Gain (dBi)	Effi (%)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	0.13	35.24	5000	51.64	4.81
2410	0.14	35.97	5100	54.45	4.25
2420	0.21	36.39	5200	50.47	4.32
2430	0.35	39.39	5300	54.7	3.73
2440	0.3	40.39	5400	52.84	4.07
2450	0.58	38.99	5500	57.15	4.57
2460	0.51	38.12	5600	59.02	4.32
2470	0.55	36.31	5700	52.72	4.23
2480	0.84	37.5	5800	56.23	3.63

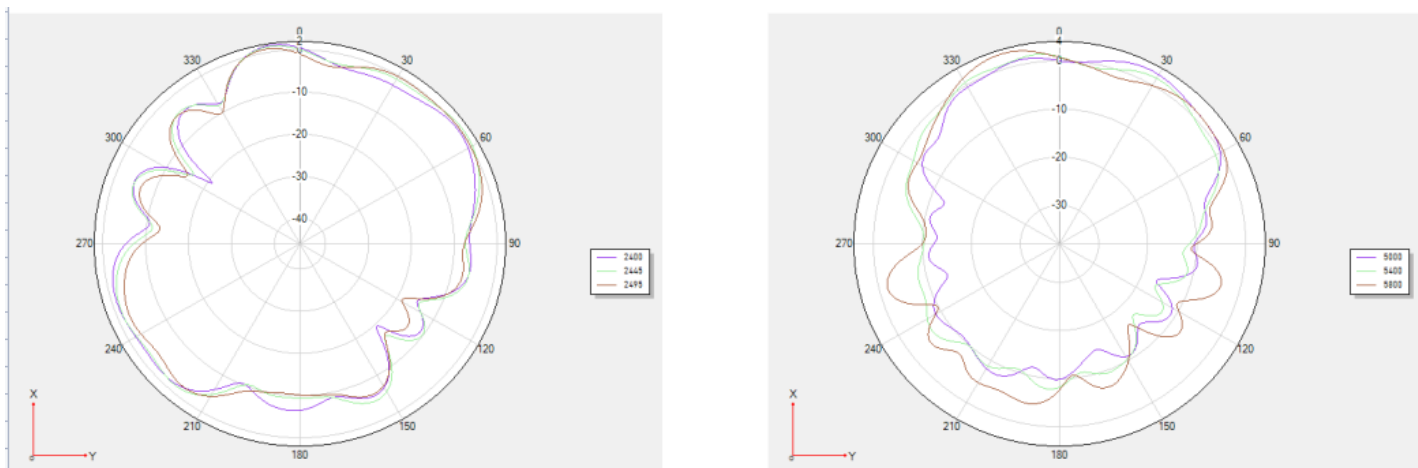
2.4 2D 方向图 2D direction



Phi 0 2D图

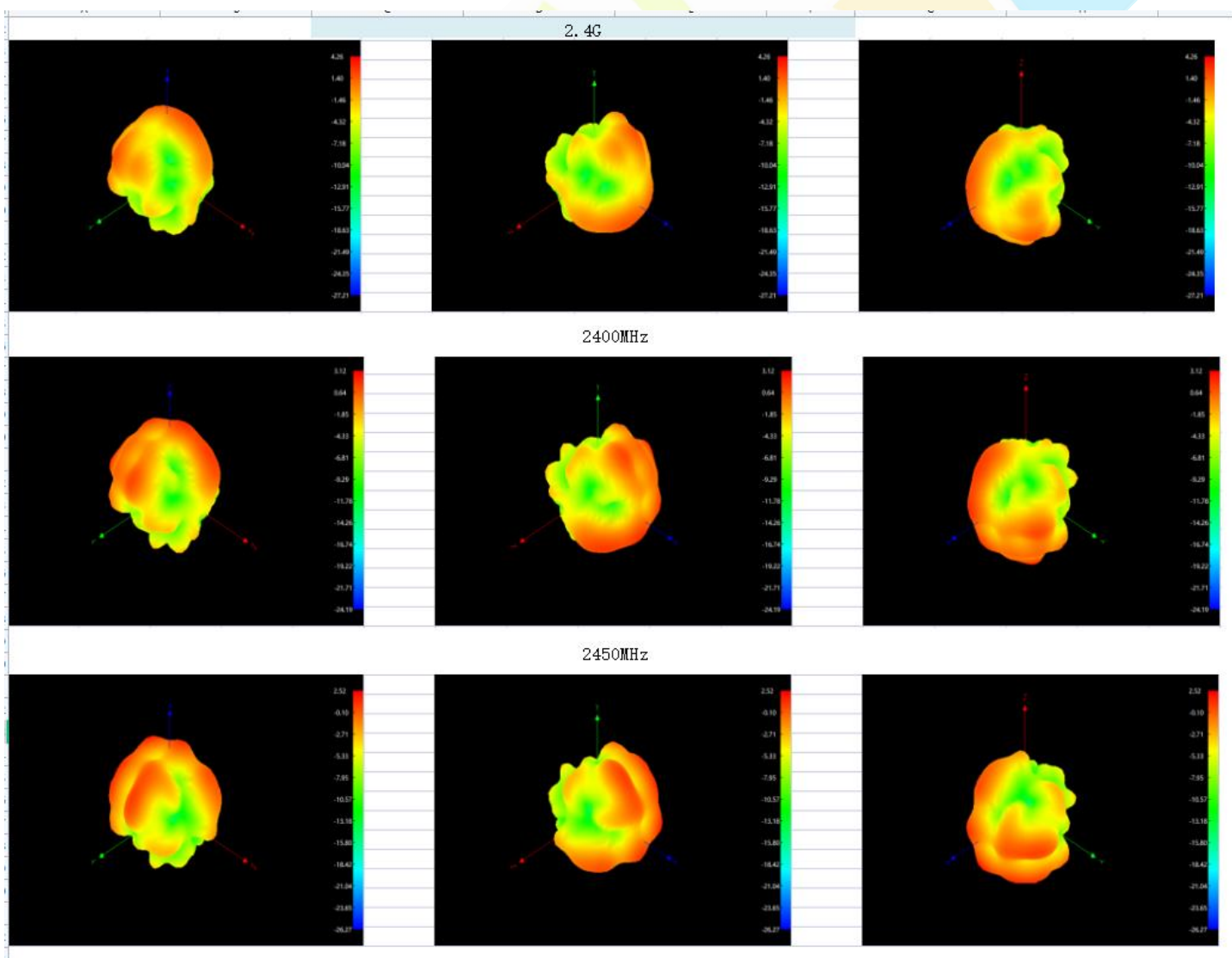


Phi 90 2D图

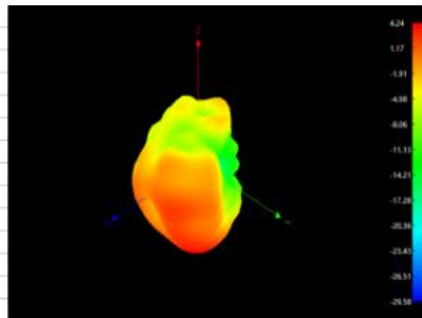
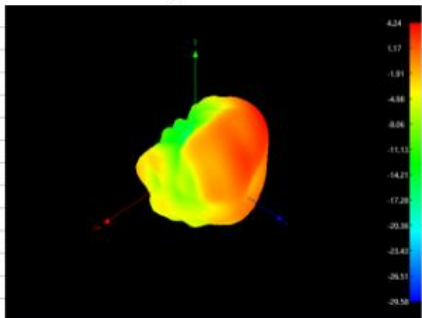
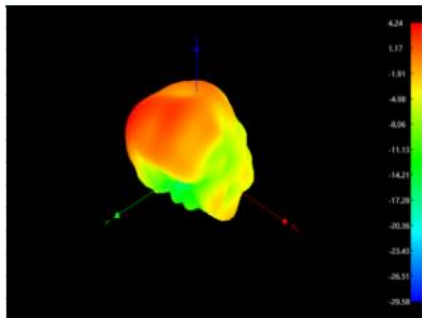


Theta 90 2D图

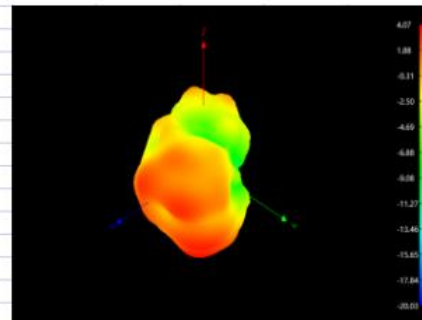
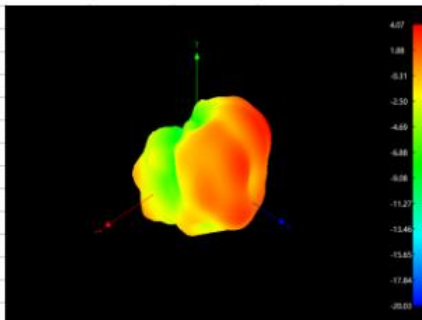
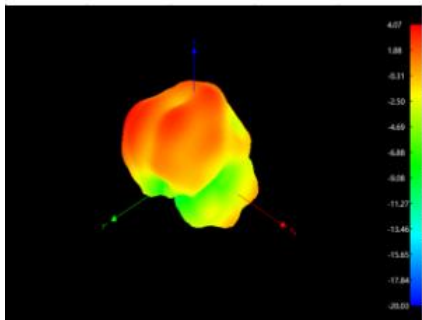
2.5 3D 方向图 3D direction



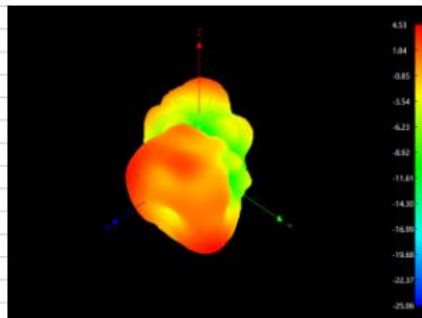
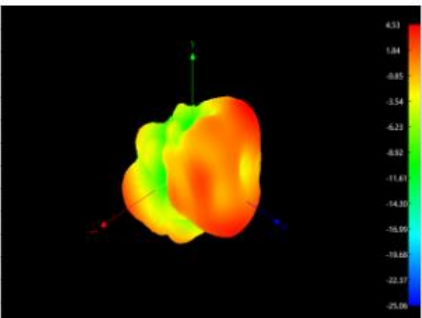
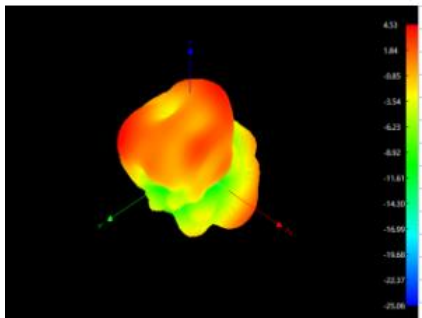
5G



5000MHz



5500MHz



2.6 安装位置图 Location diagram

