



深圳市飞胜电子有限公司
SHENZHEN FEISHENG ELECTRONICS CO.,LTD.

车载 WIFI 天线规格承认书

Product Specifications for Approval

Customer Name:

Antenna frequency band: 2400-2500MHz 5150-5850MHz

Version: A0

Production date: 2022-05-09

Number: FS-0086

Address: 3rd Floor, No.70 Baotong South Road,
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Product characteristic specification sheet

Product type: WIFI antenna	
DESCRIPTION	VALUE
Frequency range (工作频段)	2400-2500MHz 5150-5850MHz
Impedance (特性阻抗)	50 Ω
V.S.W.R (电压驻波比)	Contrast waveform
Gain (增益)	2±0.5dBi
Radiation (方向性)	Omni-directional
Polarization (线化方式)	linear Vertical
Admitted power (功率)	1W
Connector (接头型号)	IPEX CONN
Operating temp (工作温度)	-10℃~+70℃
Storage temp (储存温度)	-10℃~+60℃

1. Summary 概要:

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.

这份报告用以说明量测的天线的结果，该测量设置包括 S 参数的 电压驻波比及反射系数，为量测天线的数据表示及分析

2. S-Parameter Measurement S 参数的量测:

A. Reflection coefficient 反射系数:

(a) Instrument (仪器): Network Analyzer (网络分析仪).

(b) Setup 建立:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

仪器的校正通过 OSL 校准套件进行一个端口的校正.

(2) Connect the antenna under test to the Network Analyzer.

连接待测天线至网络分析仪.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

测量 S11 如图一所示.

(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.

一般来说, S11 小于 -10dB VSWR 小于 2.0: 1, 以确保 90% 的功率转换成天线和只有不到 10% 的功率反射回系统.

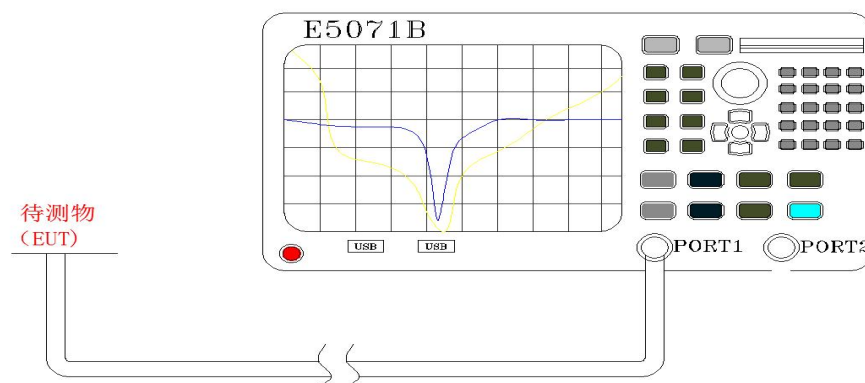


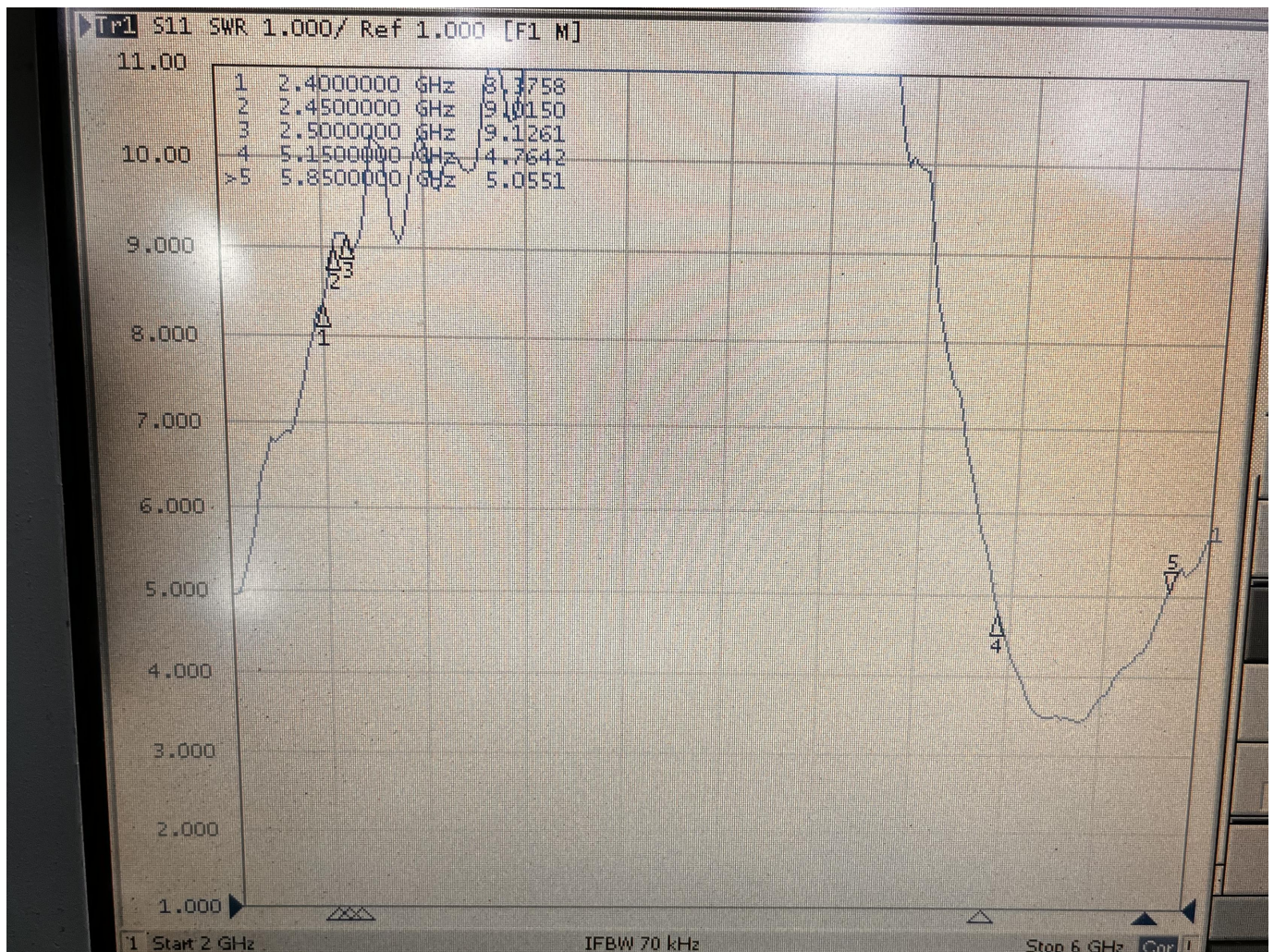
Fig.1 Antenna measured in Network Analyzer 图 1 天线测量网络分析仪

3. S-Parameter Measurement Result S 参数的量测结果:

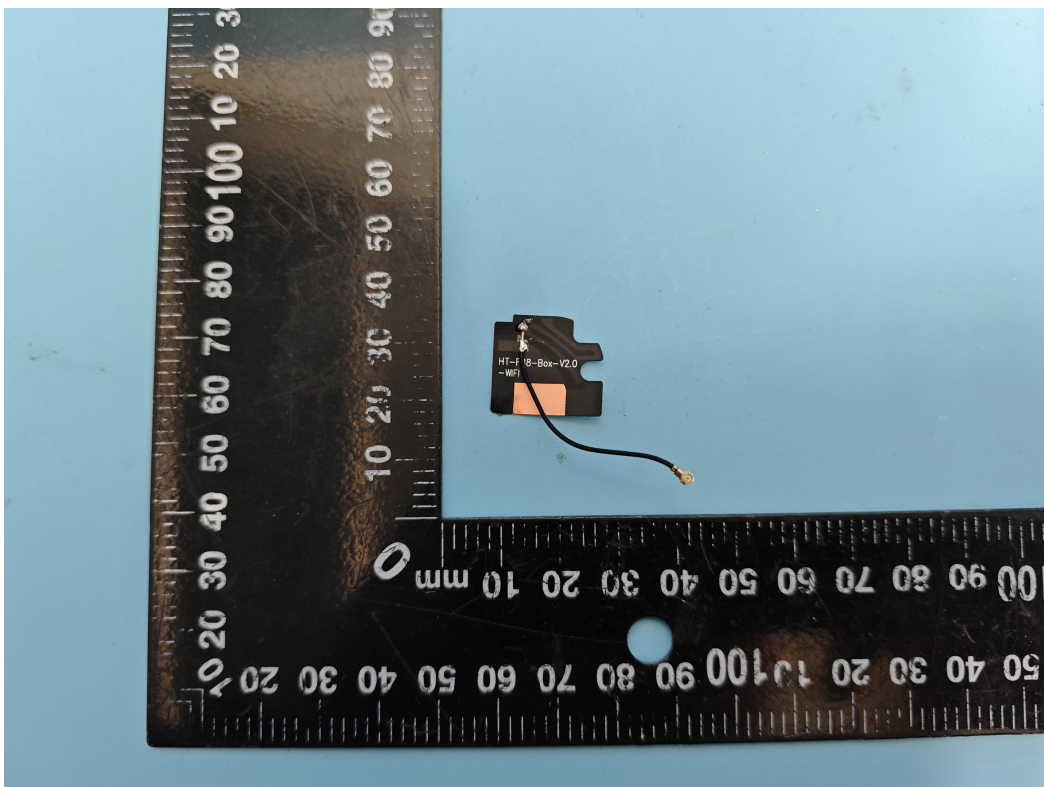
S-Parameter test data S-参数量测数据:

Frequency MHz 工作频段	2400	2450	2500	5150	5850
V.S.W.R 驻波比	8.37	9.01	9.12	4.76	5.05

S-Parameter test image S-参数量测图片:



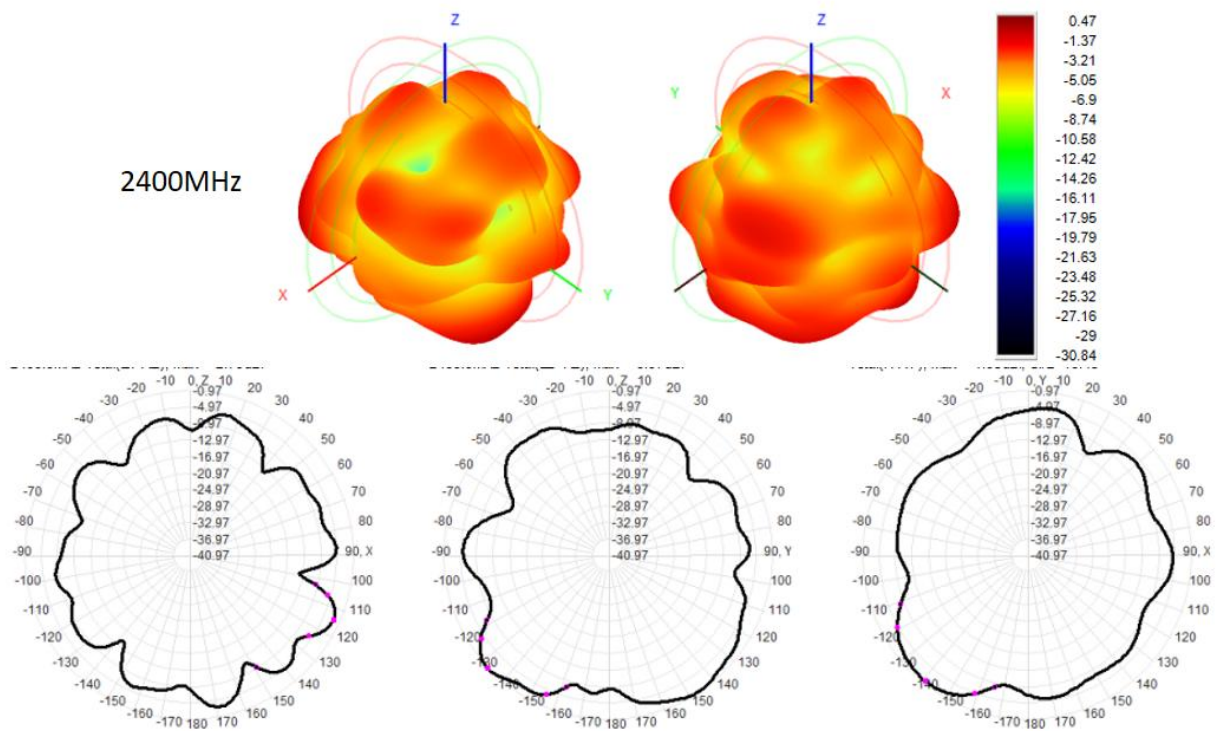
天线图片



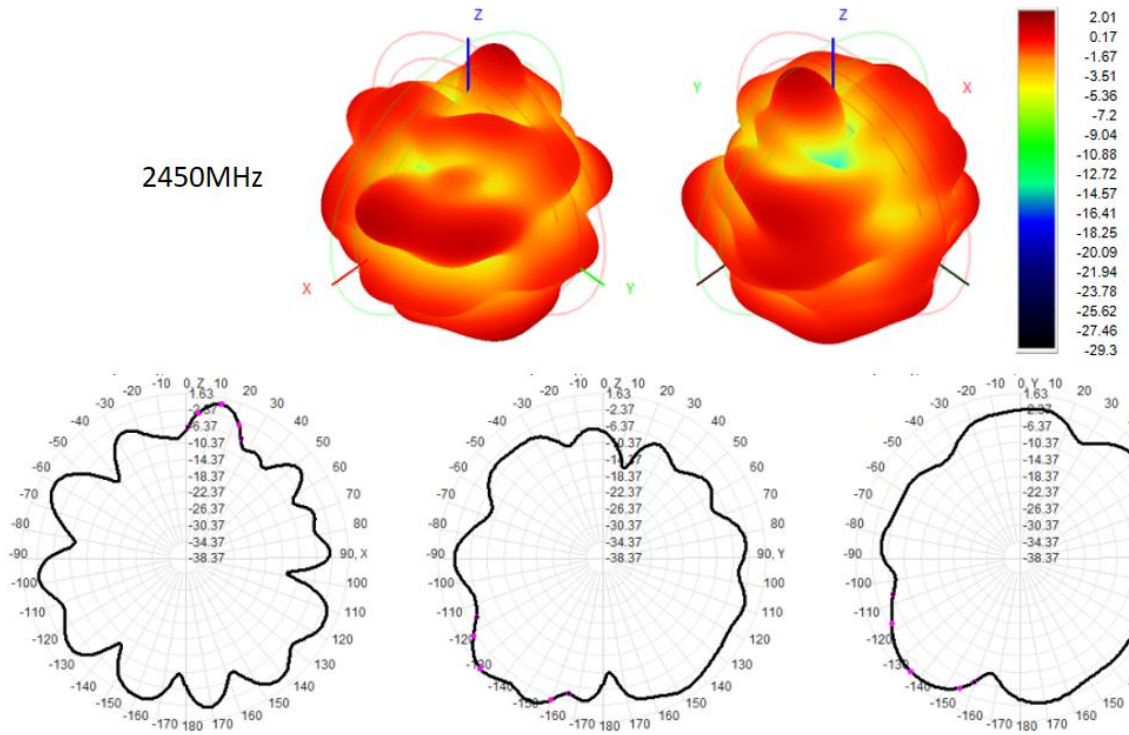
无源数据

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak GAIN (dBi) (增益)
2400	30.42	1.47
2450	43.37	2.01
2500	41.53	2.24
5150	41.68	2.42
5850	45.71	2.21

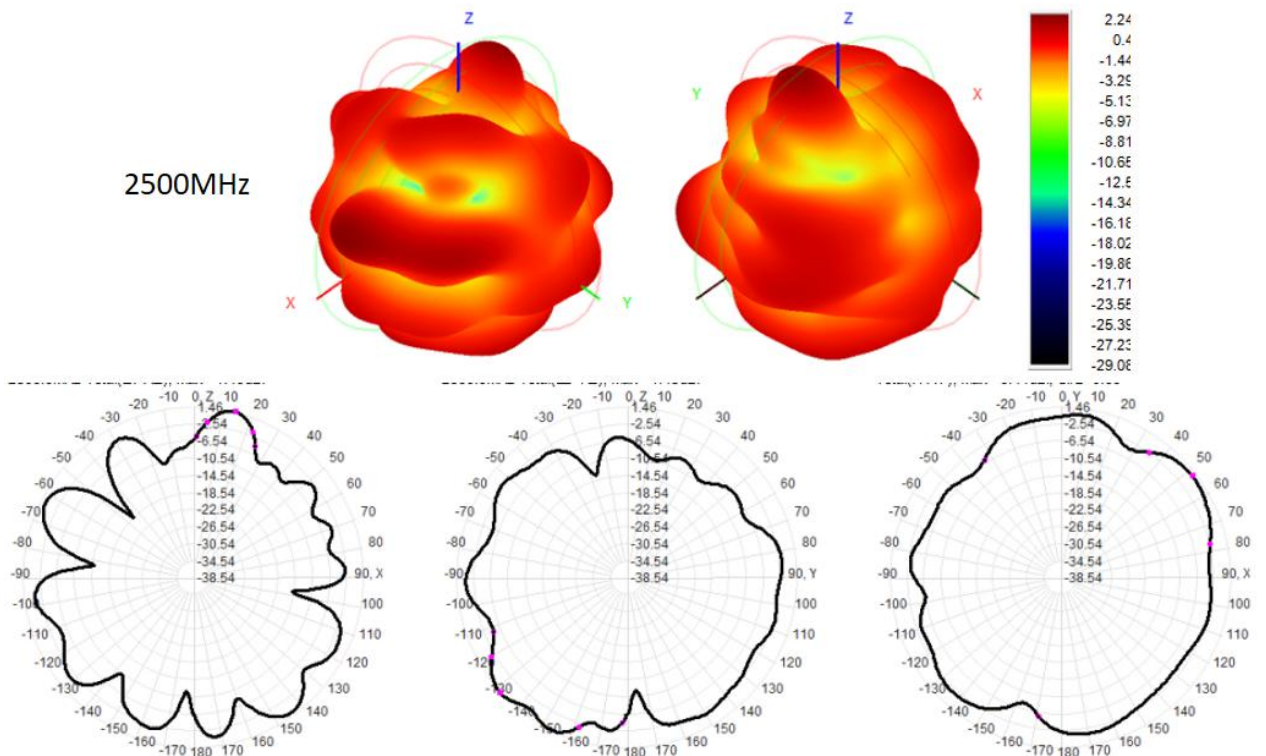
2D/3D 图



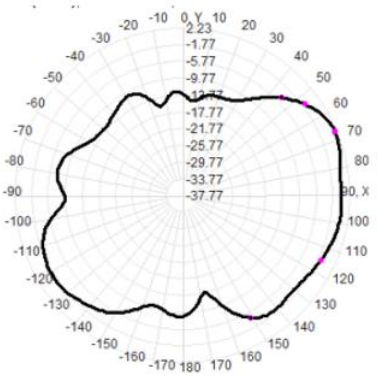
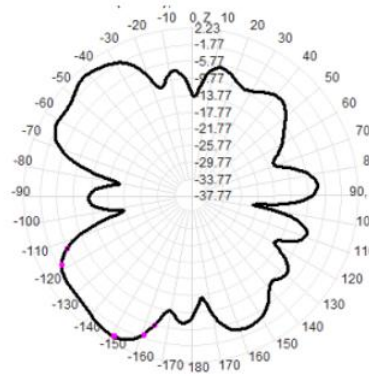
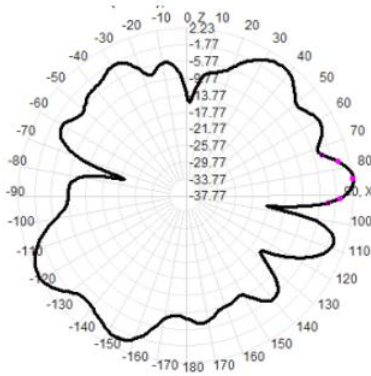
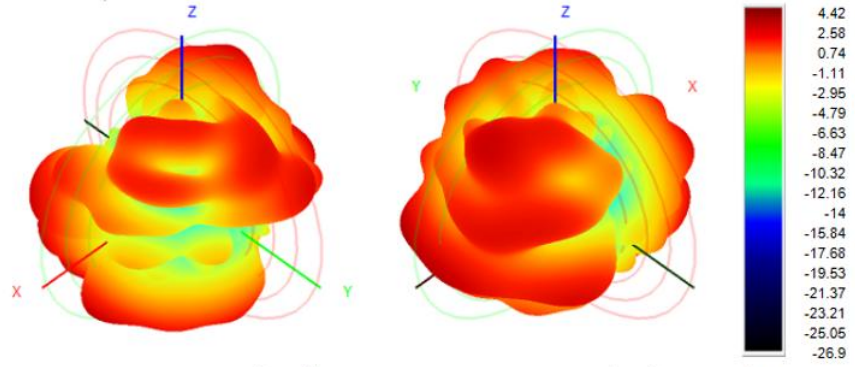
2450MHz



2500MHz



5150MHz



5850MHz

