



ShenZhen City FeiMin Technology CO., LTD.

SPECIFICATION FOR APPROVED

客户

CUSTOMER: Shenzhen Unbroken Electronics Co., Ltd.

产品名称

PRODUCTS: S2303 antenna

客户料号

PART NO: 04.3.1.87.0118

产品型号

Spec.: FM-S008-S2303 antenna (Cable terminal)

日期

Data: 2024.10.31

SUPPLIER		
PREPARED BY	CHECKED BY	APPROVED BY
Chenyuan	Xiaxingxi	Madongdong

CUSTOMER		
ACCEPTED BY	CHECKED BY	APPROVED BY

REMARK: Please send us one (or copy) of this approval with stamp after accepting, other copies filed by the customer.

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ANTENNA SPECIFICATION

catalog

1. Project Information	4
1.1. Appearance and Dimensions	4
2. Electrical Characteristics.....	5
2.1. Test Environment Conditions	5
2.2. Measurement method	5
2.2.1. Antenna VSWR.....	5
2.2.2. Antenna Return loss.....	6
2.2.3. smith chart.....	6
2.3. Antenna passive test data.....	7
2.3.1. Test system.....	7
2.3.2 Antenna efficiency and gain.....	7
2.3.3. Antenna Radiation Pattern.....	8
3. Notes.....	8
4. Product packaging specification	9

ANTENNA SPECIFICATION

Revision history

version	date	state
A1	2024-10-29	First edition
A2	2024-10-31	Retest

What was changed:

The first change:

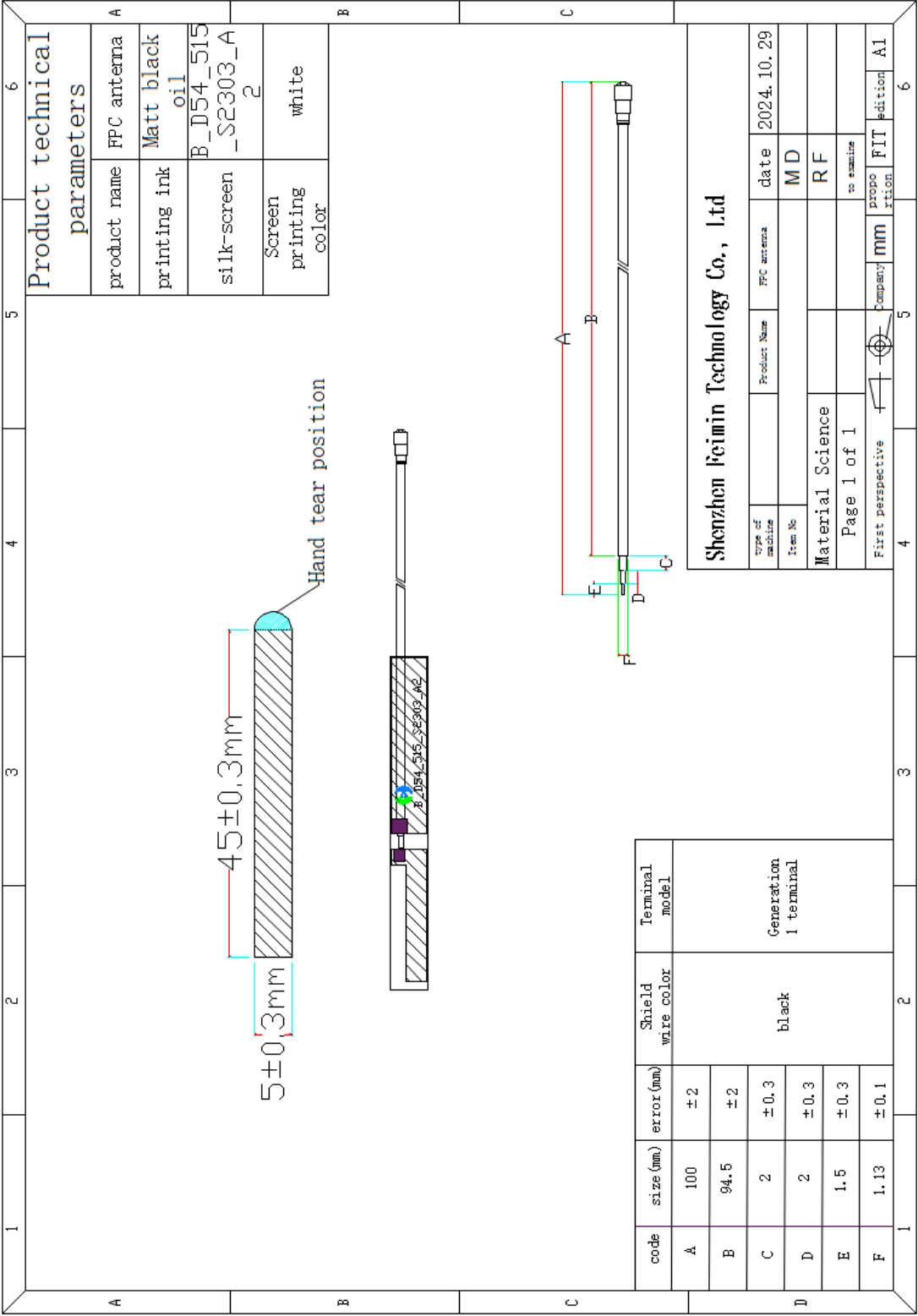
Before the change: (If necessary, please add the appropriate picture. The details of the change are clear here)

After the change: (If necessary, please add the appropriate picture. The details of the change are clear here)



1. Project Information

1.1. Appearance and Dimensions

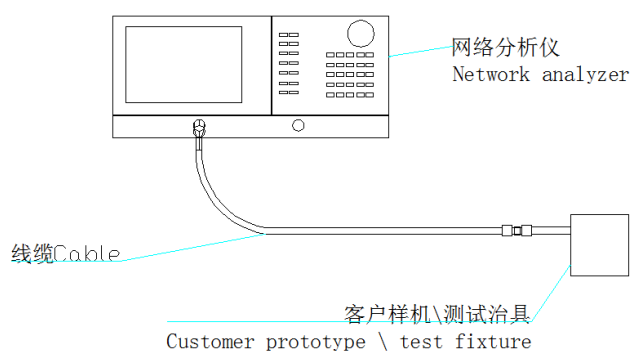


2. Electrical Characteristics

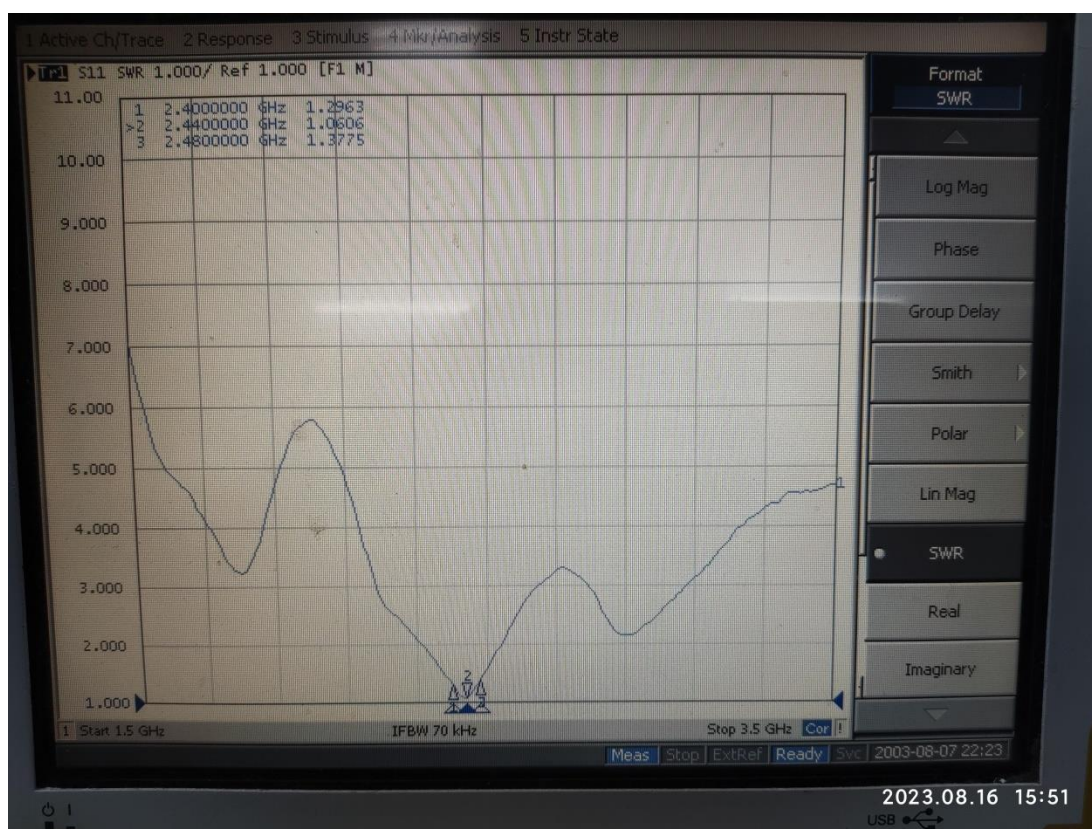
2.1. Test Environment Conditions

Temperature	Ordinary Temperature (5 to 35℃)
Humidity	Ordinary Humidity (25 to 85% RH)

2.2. Measurement method

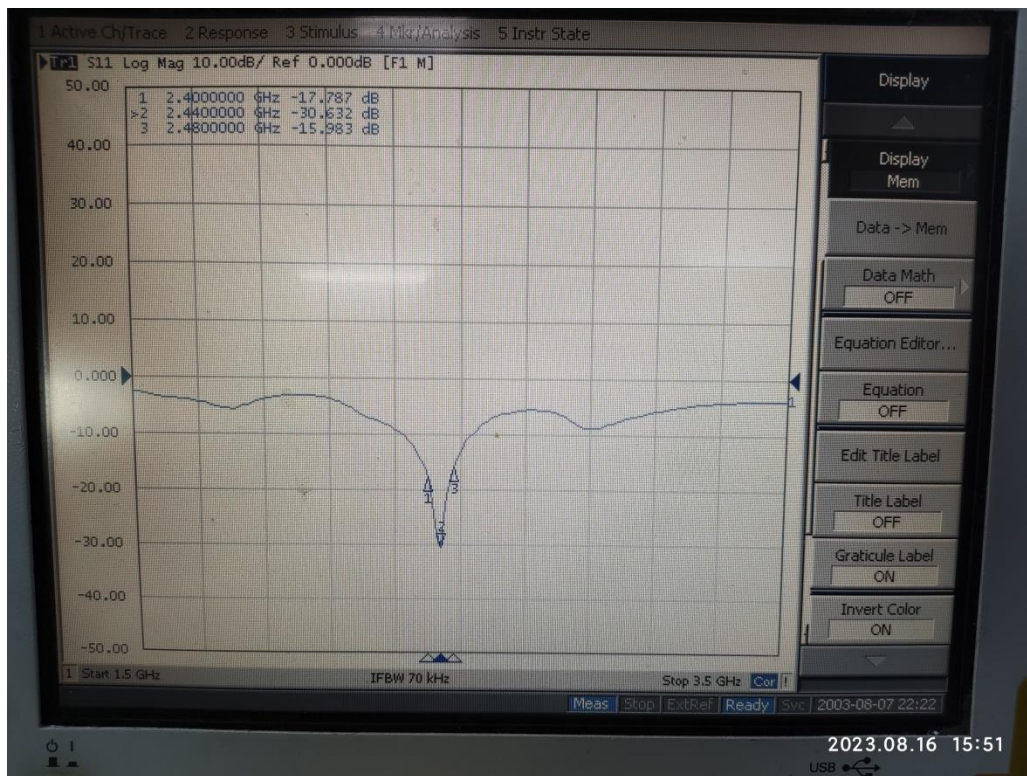


2.2.1. Antenna VSWR

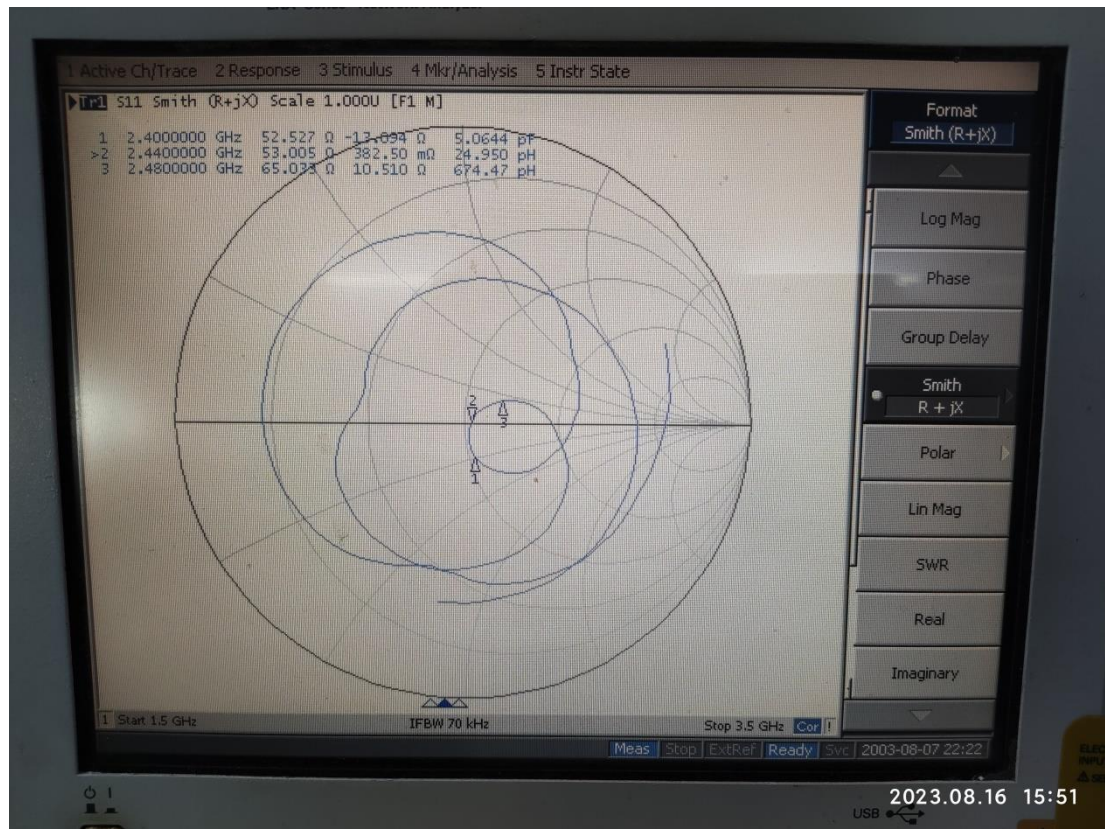


ANTENNA SPECIFICATION

2.2.2. Antenna Return loss



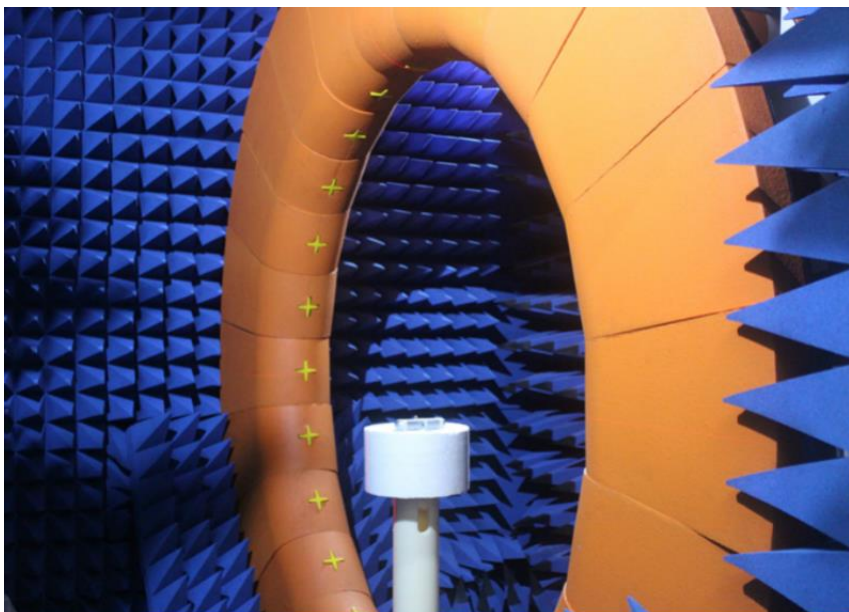
2.2.3. smith chart



ANTENNA SPECIFICATION

2.3. Antenna passive test data

2.3.1. Test system



Shenzhen Flying Sensitive Technology Limited Company (24 probe OTA microwave anechoic chamber)

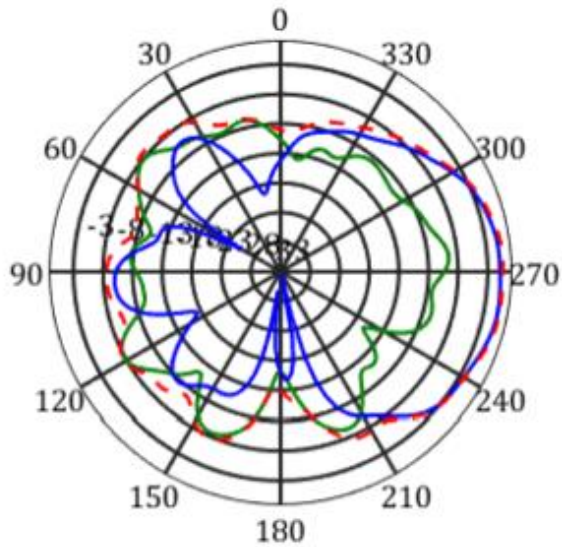
2.3.2 Antenna efficiency and gain

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2400	43.55	2.60
2410	45.03	2.80
2420	46.44	2.79
2430	48.10	2.96
2440	39.42	3.06
2450	50.03	3.53
2460	51.29	3.82
2470	50.50	3.79
2480	51.00	3.94
2490	51.52	3.96
2500	51.01	3.79

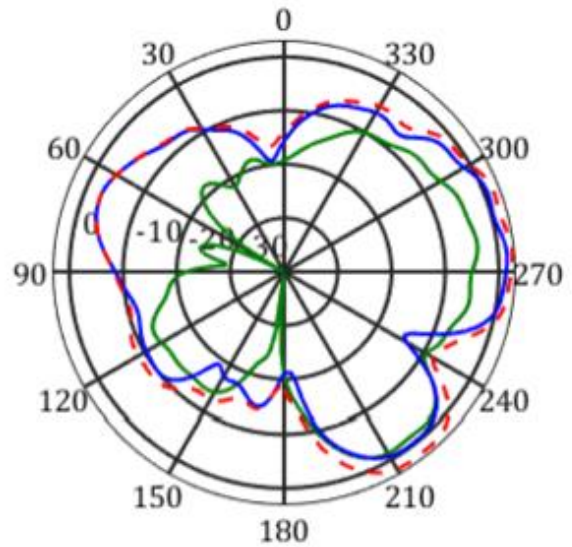
ANTENNA SPECIFICATION

2.3.3. Antenna Radiation Pattern

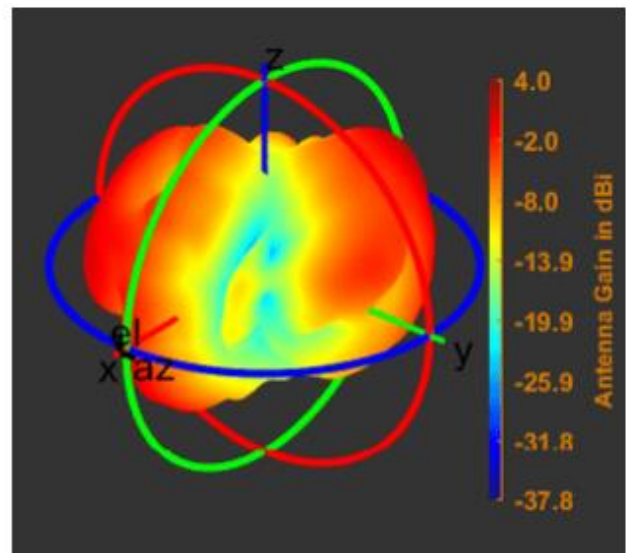
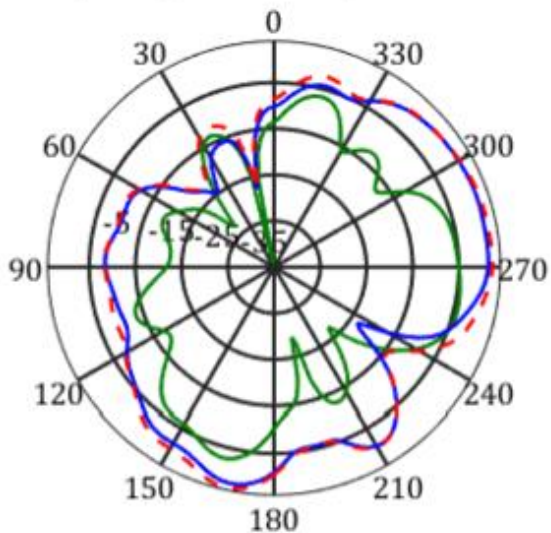
frequency=2490MHz, X-Z Plane



frequency=2490MHz, Y-Z Plane



frequency=2490MHz, X-Y Plane



3. Notes

1、 When installing, be careful not to be too close to the metal parts to avoid affecting the antenna performance.

2、 This antenna is only suitable for this type of machine. The position of the antenna cannot be changed at will, and it is not our business' responsibility if it is used on other machines that results in poor performance.

3、 The data used in this acknowledgment (e. g. , antenna efficiency, gain, etc.) are data obtained from laboratory tests of the acknowledgement project / antenna in Shenzhen Fei Min Technology Co. , Ltd.

ANTENNA SPECIFICATION

4. Product packaging specification

Product name: FPC antenna

1、Labeling requirements

The inner label is 7CM long and 4CM wide

The outer label is 7CM long, about 5CM

supplier	Shenzhen Feimin Technology Co., Ltd.
product name	*****
Material coding	*****
Specifications	*****
quantity	***PCS

client's name			
supplier	Shenzhen Feimin Technology Co., Ltd.		
Order number	*****		
Material coding	*****		
Specification model	*****	product name	*****
quantity	****PCS	QC:	
spare parts	***PCS	Notes	

2、Packing process

Job description:

1. The product __PCS is packed in PE open pockets, and the inner label is affixed to each pouch; Put the __ small bag into the big PE sealing tape bag, except the tail number and spare parts.
2. Each box contains __ large bags of products, and the boxes are sealed with adhesive tape in the shape of "I".
3. Paste the outer label on the upper right corner of the box, and there must be no missing or wrong filling.

3、Precautions

When packing the box, please pay attention to lay the antenna flat and avoid serious shaking after sealing. If the whole box is not filled, it needs to be filled with foam to avoid transportation Circumstances that caused product defects in the process.

