



Shenzhen Feixun Lianke Electronics Co., Ltd

Add: 5 / F, building 2, dawokou workshop, Jiuwei community, Hangcheng street, Bao'an District, Shenzhen

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C290 2.4G antenna
Antenna type	monopole antenna
Product Description	002 short white shell with exposed shielded wire of 200mm, equipped with IPEX and buckle, as shown in the picture/5DB white integrated antenna, 2.4G black wire for C290 ball machine
Product No	CS15508A-113IX1-200-2.4G
Antenna frequency band	2400MHz-2500MHz

April 1st, 2023



Purpose

This report is to measure the performance of antenna for All test date are showed as below.

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1.1 Antenna schematic diagram

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1. Product Overview

1.1 Antenna schematic diagram



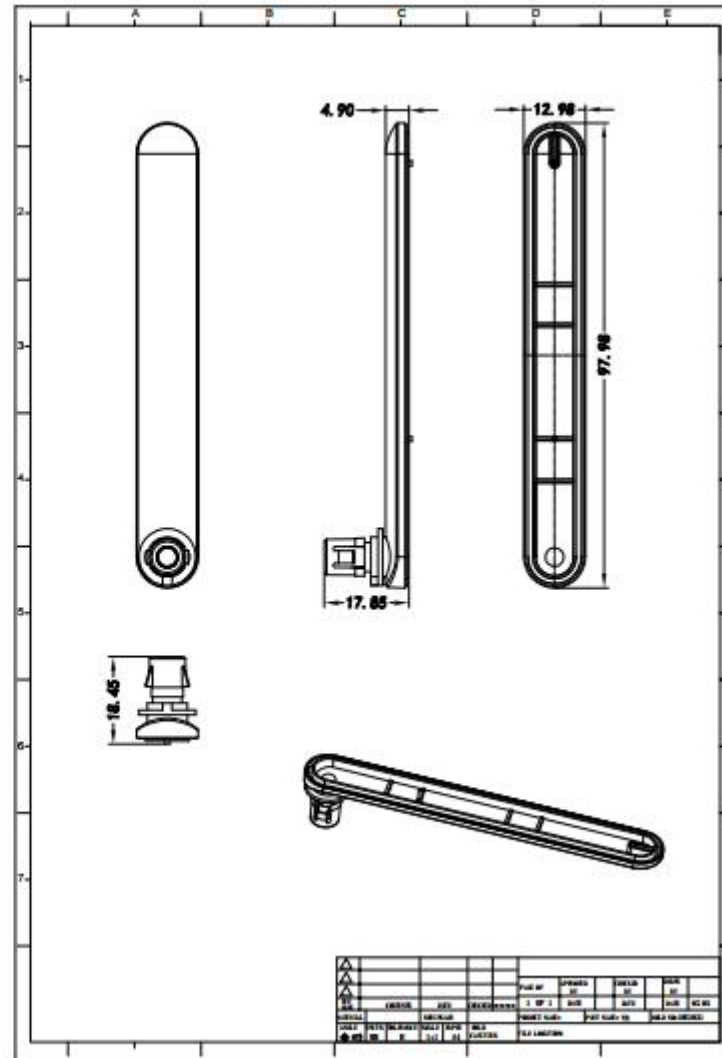
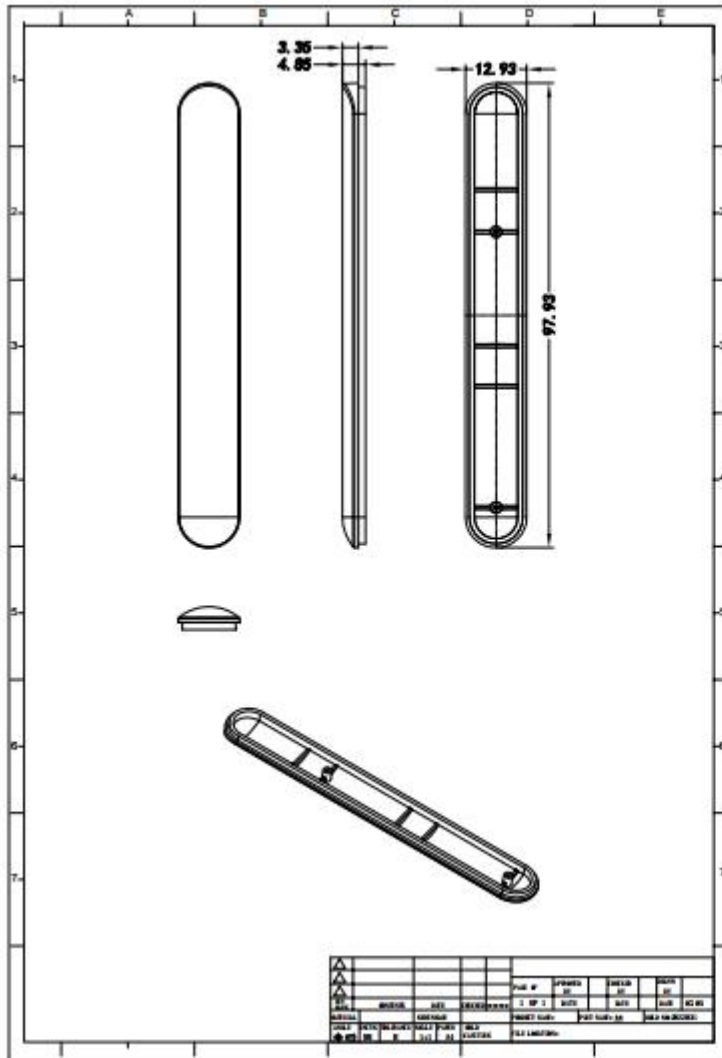


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1. Product Overview

1.2 Dimensional drawing of antenna shell material



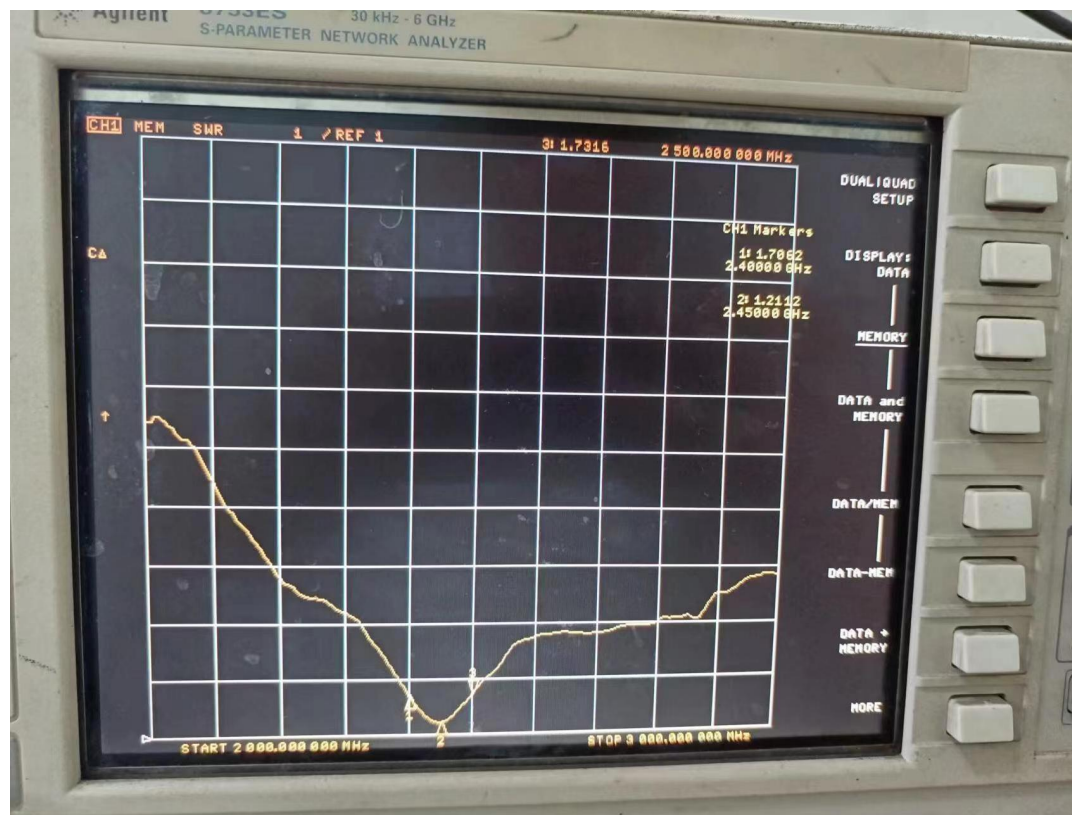


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2. Test Result

2.1 2.4G antenna VSWR

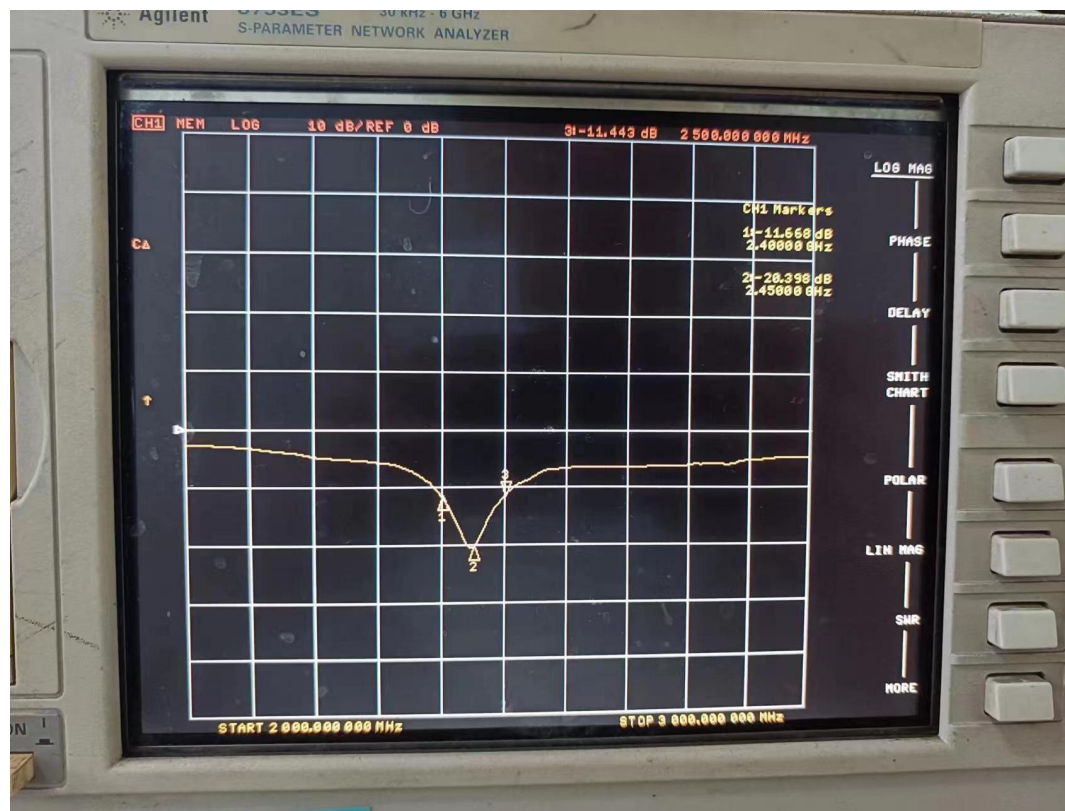


Frequency (MHz)	2400	2450	2500
VSWR	1.70	1.21	1.73



2. Test Result

2.2 2.4G antenna **RETRUN LOSS**



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-11.66	-20.39	-11.44

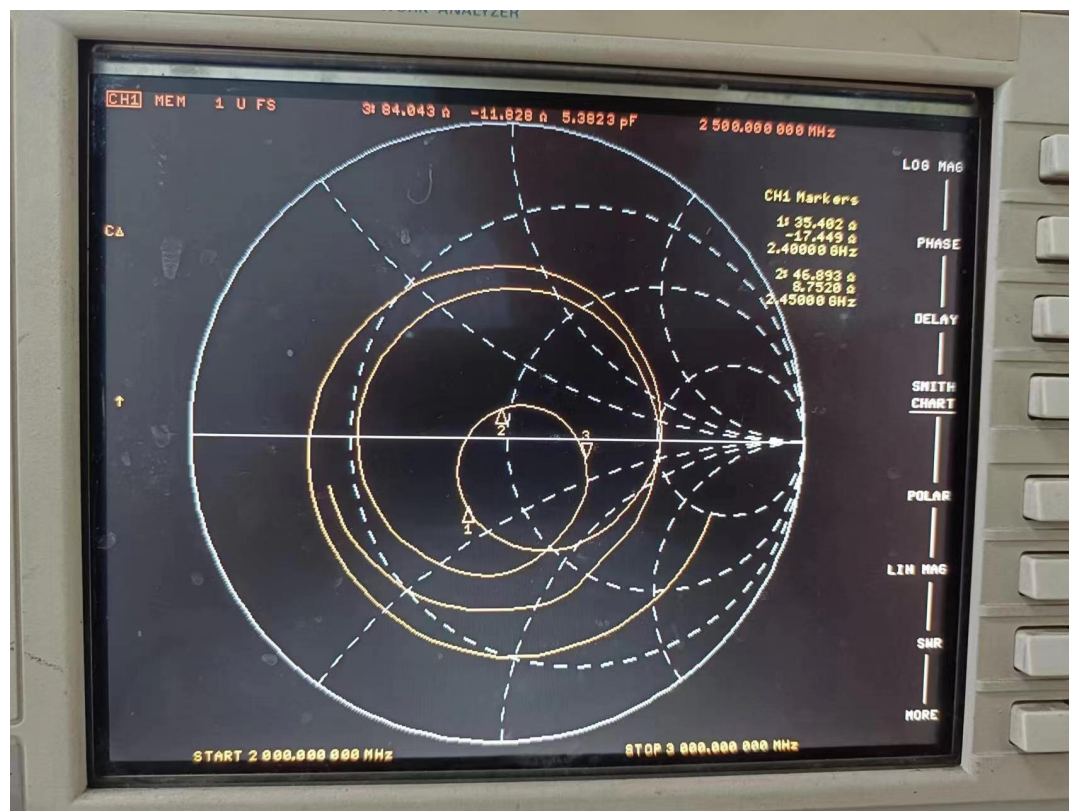


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2. Test Result

2.3 2.4G antenna *Smith Chart*



Frequency (MHz)	2400	2450	2500
	35.40	46.89	84.04



2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.06	3.61
2410	54.76	3.04
2420	50.41	3.67
2430	49.01	3.49
2440	50.29	3.64
2450	63.55	3.64
2460	58.79	3.29
2470	56.91	3.09
2480	67.44	3.86
2490	61.64	3.97
2500	58.41	3.55

2. Test Result

2.5 2.4G antenna 2D & 3D Directional pattern

