

WIFI Antenna Test Report



Manufacturer information	Ansjer Electronics Co., Ltd
Project	Door And Window sensor 2.4G onboard antenna report
Antenna type	DIPOLE
Product Description	The size of the onboard antenna is 14.4MM x 5.4MM
Product No	PB1405A-PCB-A
Antenna frequency band	2400MHz-2500MHz

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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2.1 VSWR

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2.4 GAIN & Efficiency

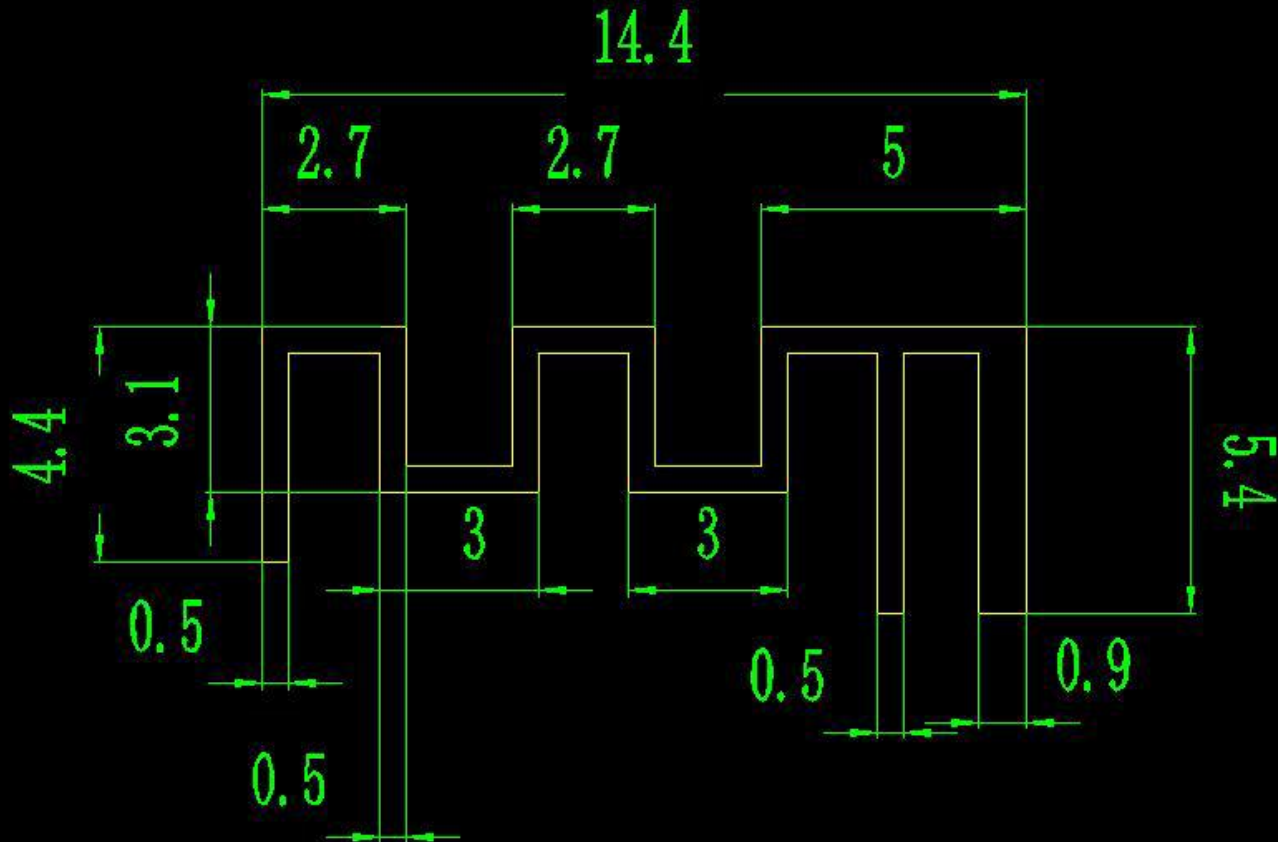
1. Product Overview

1.1 Antenna schematic diagram



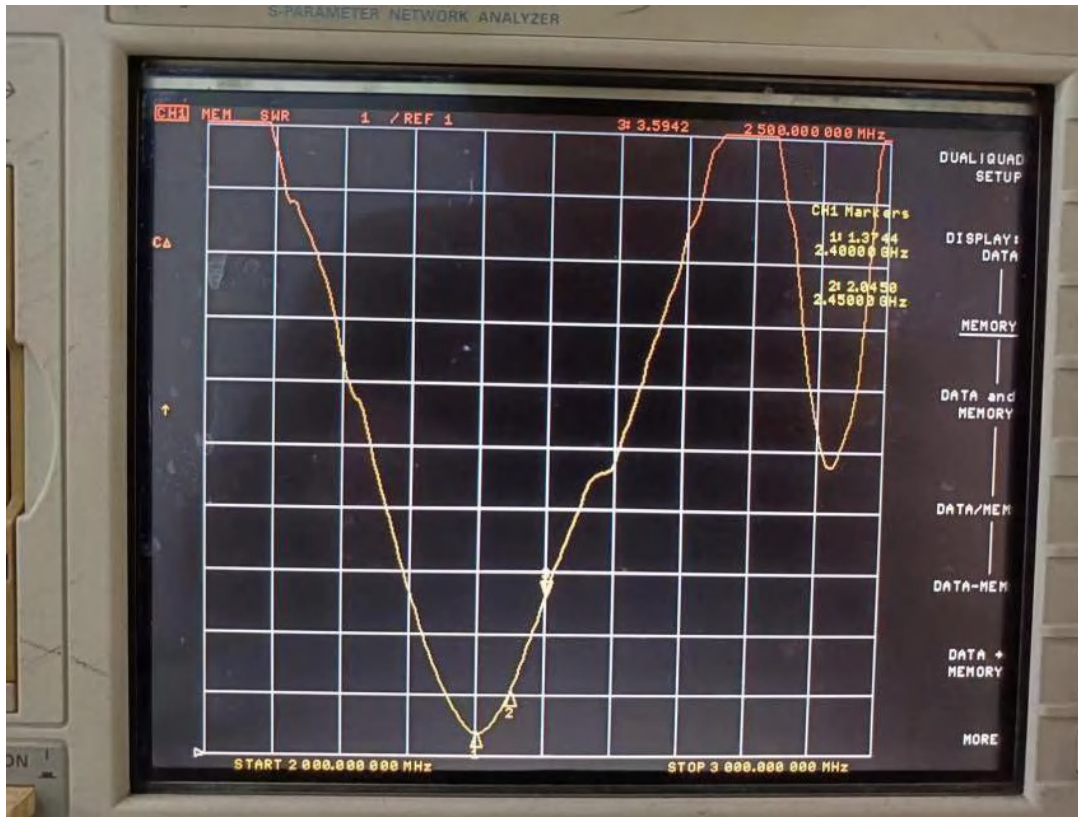
1. Product Overview

1.2 Antenna size diagram



2. Test Result

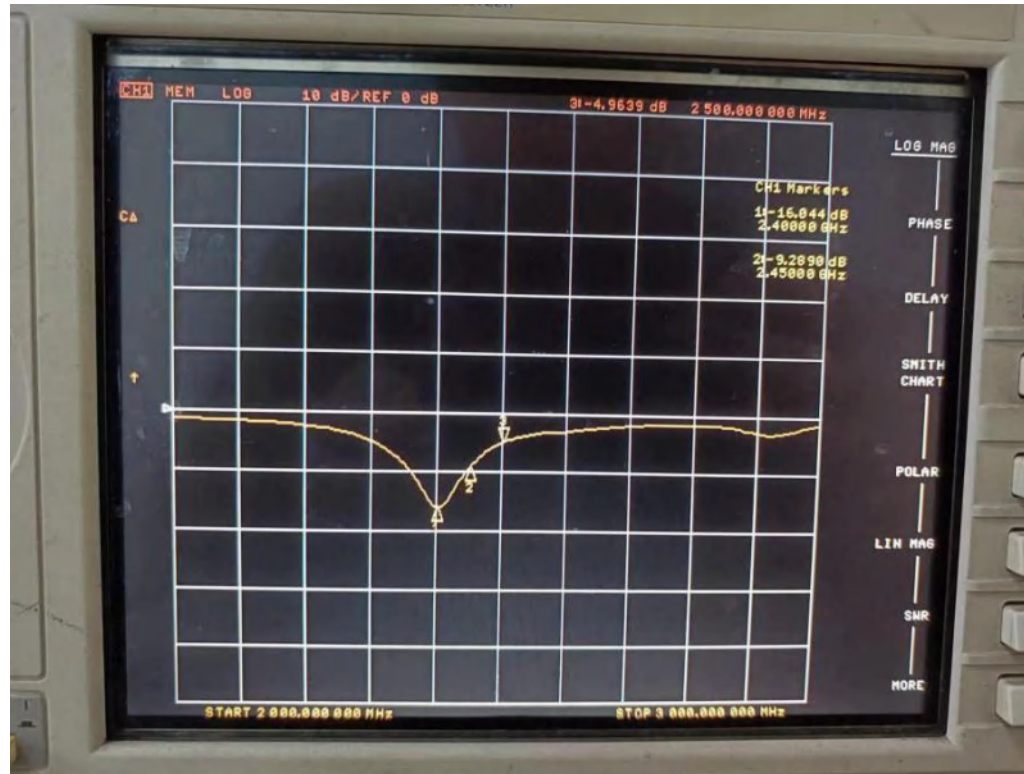
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.37	2.04	3.59

2. Test Result

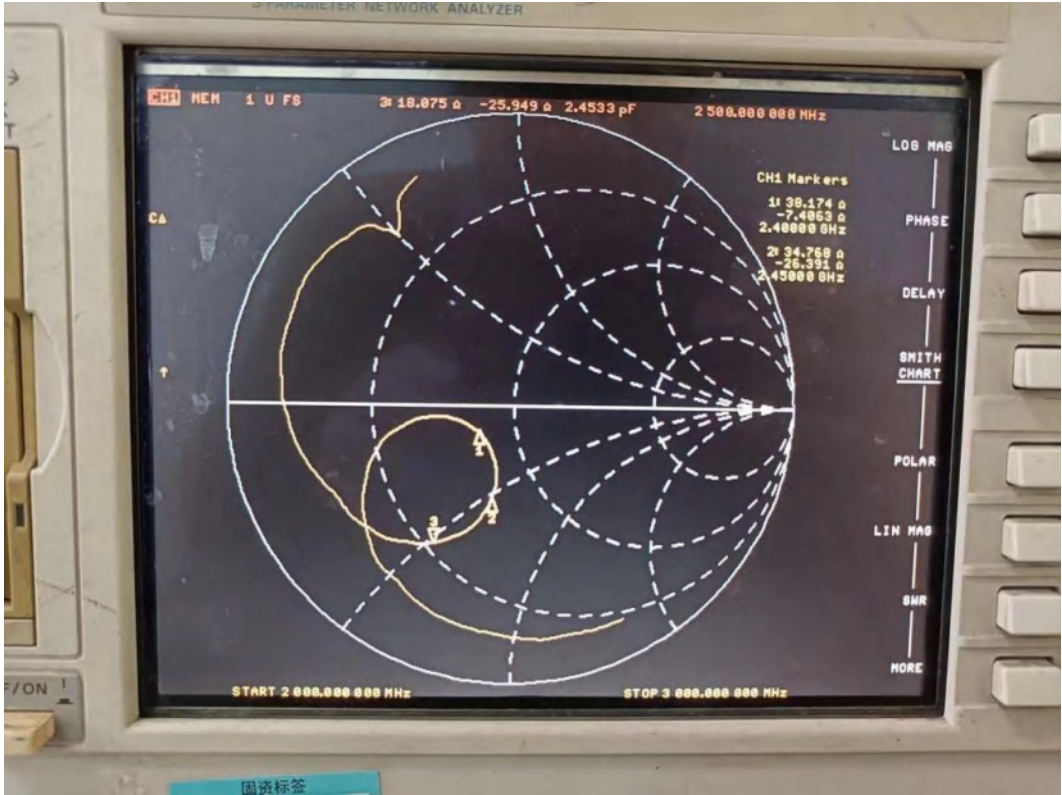
2.2 2.4G antenna *RETRUN LOSS*



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-16.04	-9.28	-4.96

2. Test Result

2.3 2.4G antenna Smith Chart



Frequency (MHz)	2400	2450	2500
	38.17	34.76	18.07

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	43.01	1.43
2410	47.2	1.01
2420	43.38	1.93
2430	44.85	1.45
2440	48.68	1.88
2450	46.97	1.54
2460	44.91	1.68
2470	43.16	1.53
2480	46.54	1.81
2490	46.91	1.81
2500	44.91	1.25