

WIFI Antenna Test Report



Manufacturer information	Ansjer Electronics Co., Ltd
Project	PIR sensor 2.4G onboard antenna
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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2.1 VSWR

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2.4 GAIN & Efficiency

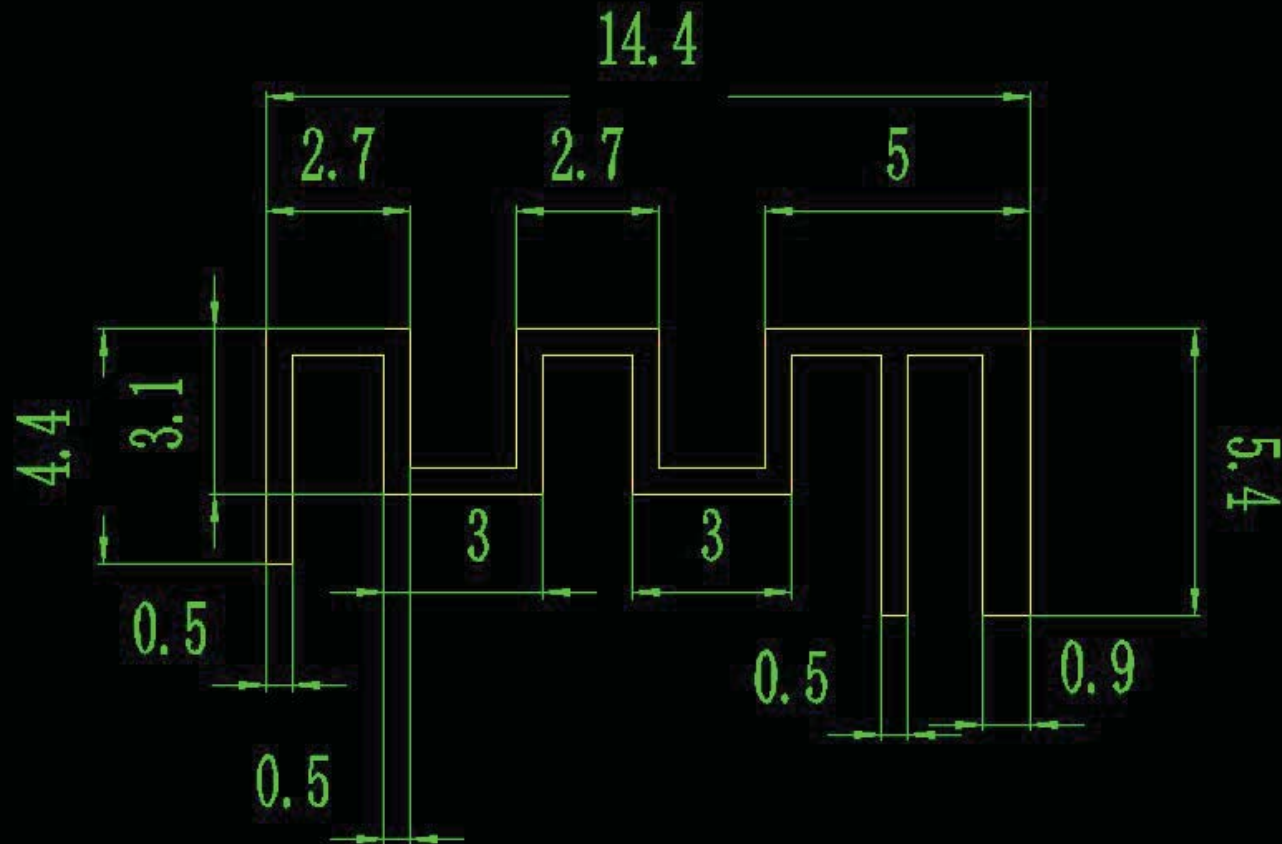
1. Product Overview

1.1 Antenna schematic diagram



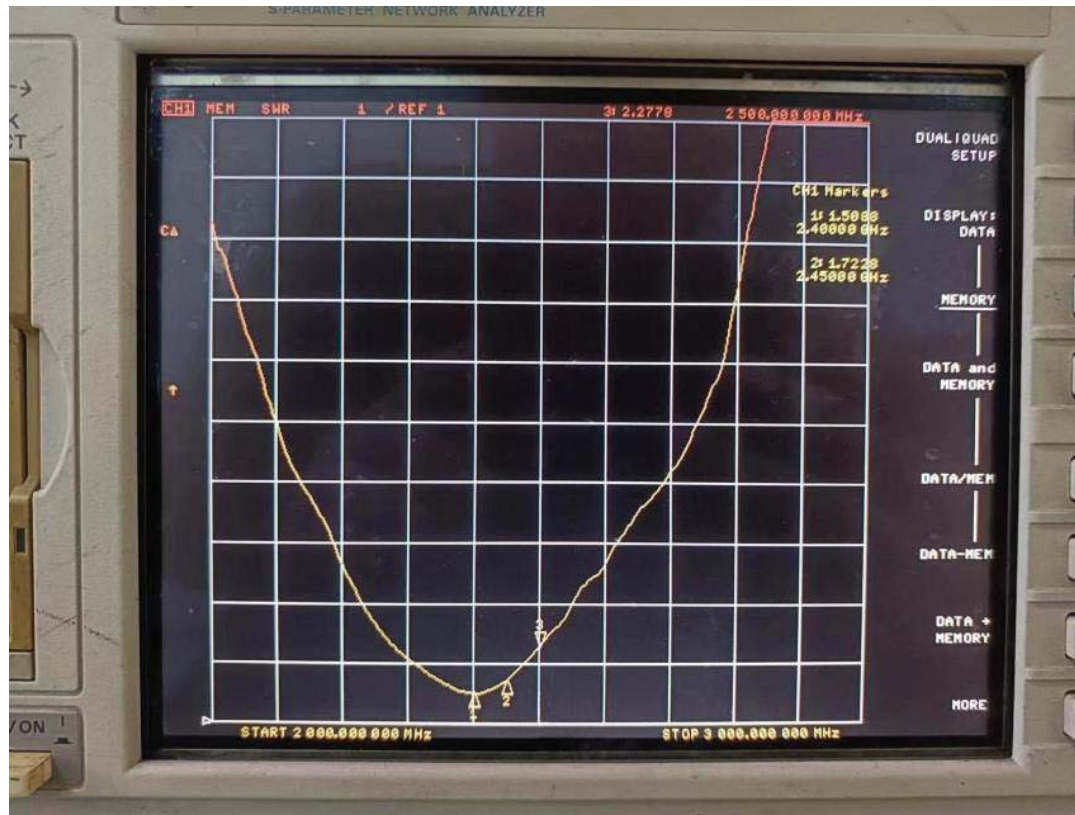
1. Product Overview

1.2 Antenna size diagram



2. Test Result

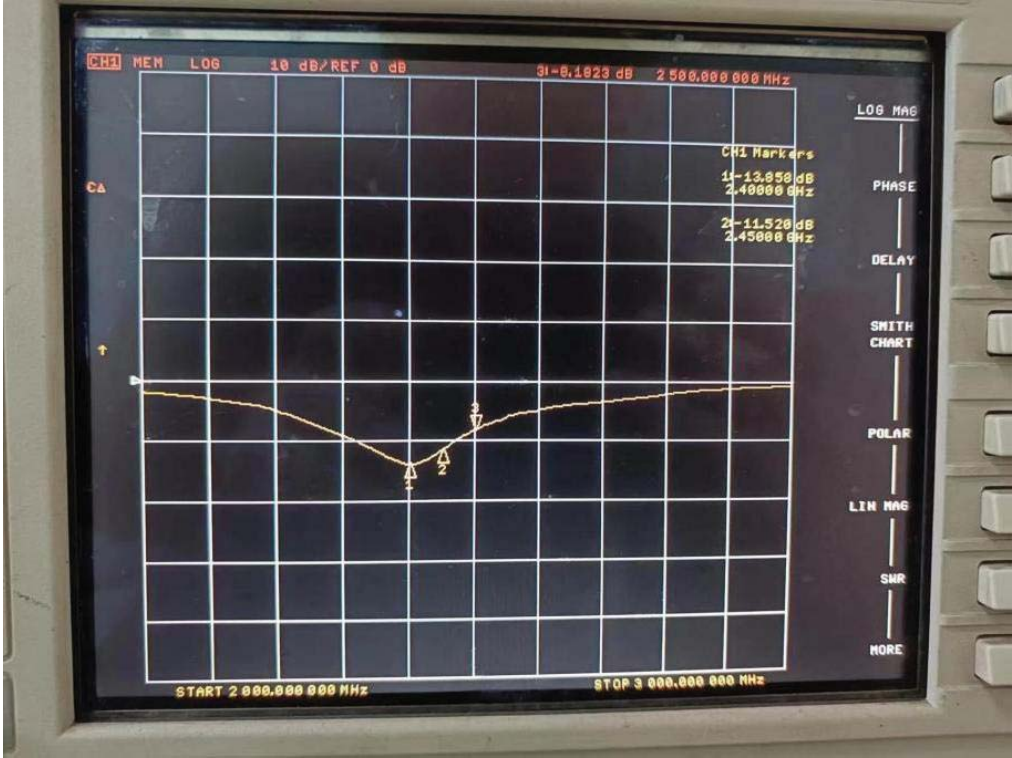
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.50	1.72	2.27

2. Test Result

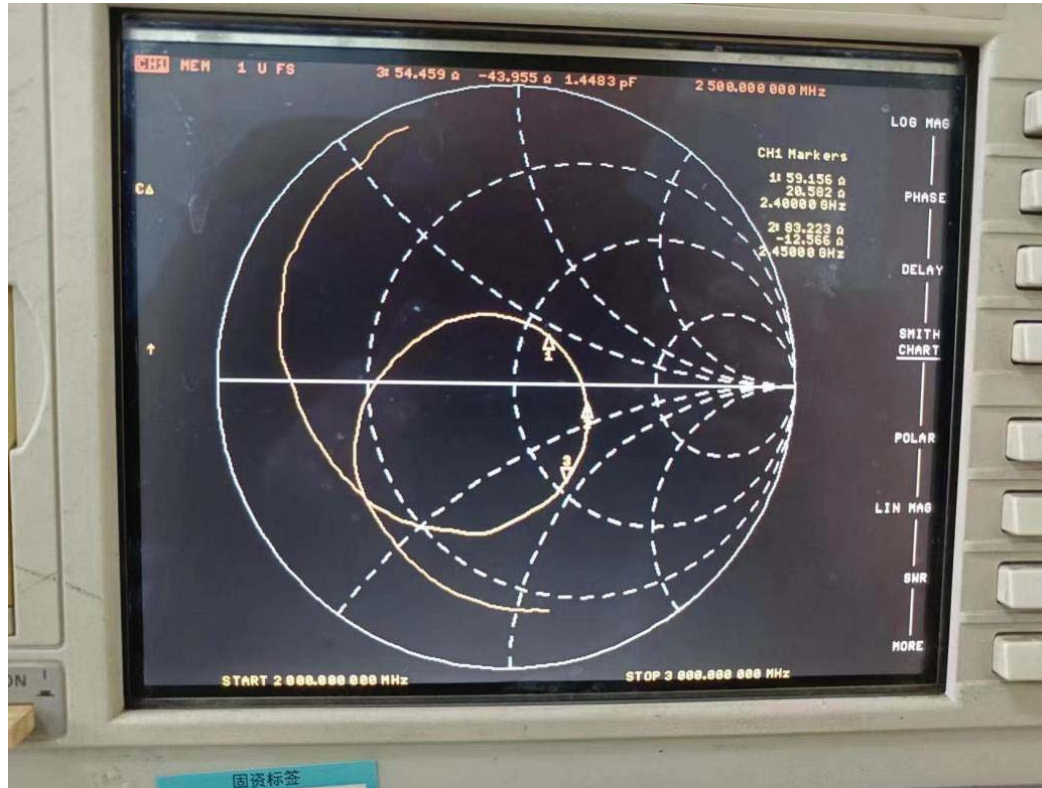
2.2 2.4G antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-13.85	-11.52	-8.18

2. Test Result

2.3 2.4G antenna *Smith Chart*



Frequency (MHz)	2400	2450	2500
	59.15	83.22	54.45

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.44	1.02
2410	43.94	1.03
2420	43.75	1.38
2430	50.48	2.35
2440	46.05	2.21
2450	41.71	1.95
2460	42.69	2.15
2470	41.63	2.01
2480	43.45	2.11
2490	42.57	1.98
2500	40.2	1.7