

WIFI Antenna Test Report



Manufacturer information	Ansjer Electronics Co., Ltd
Project	Water Leak Sensor 2.4G Board 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.

Content

1: Product Overview

1.1 Antenna schematic diagram

1.2 Antenna size diagram

2: Test Result

2.1 VSWR

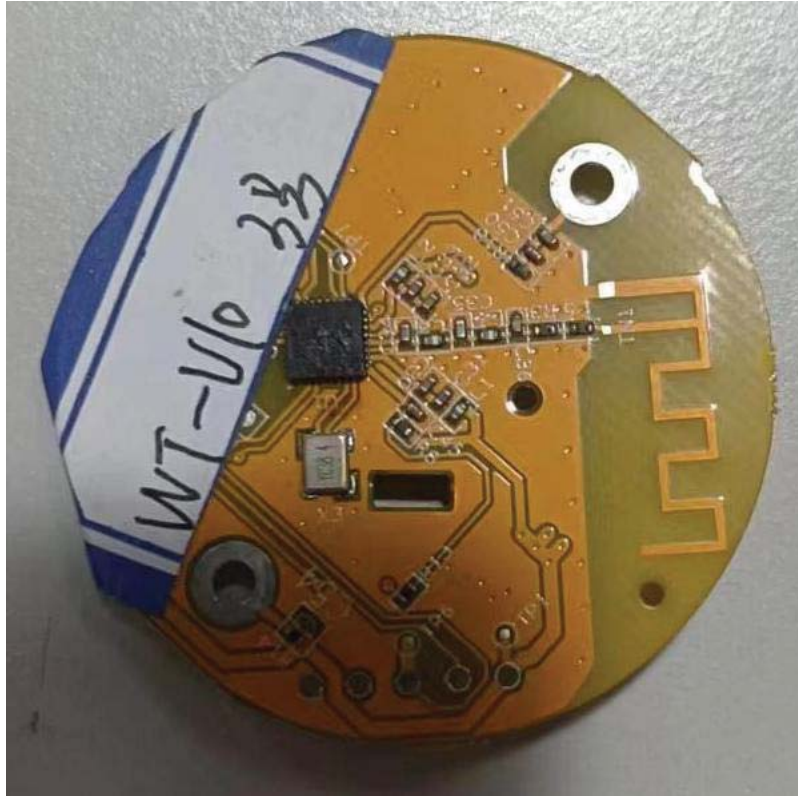
2.2 RETRUN LOSS

2.3 *Smith Chart*

2.4 GAIN & Efficiency

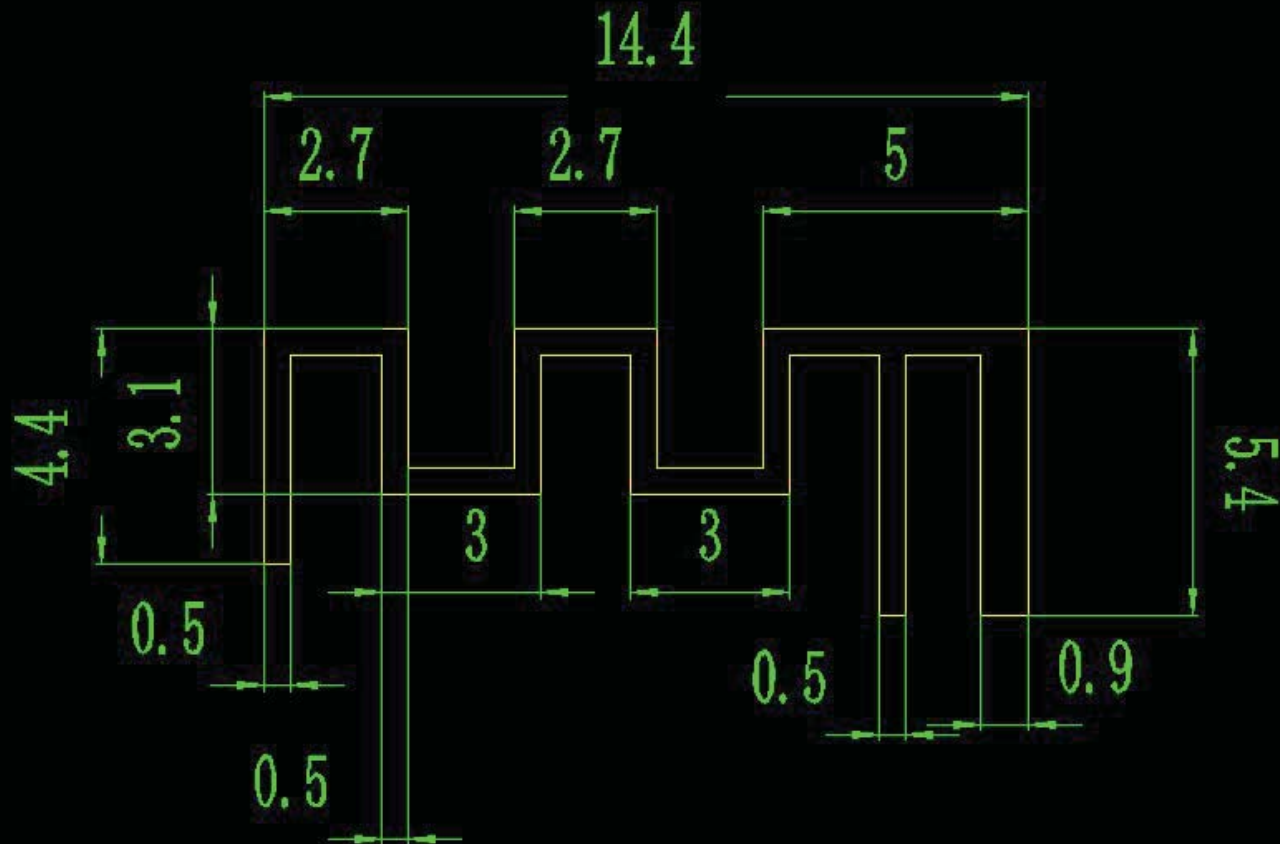
1. Product Overview

1.1 Antenna schematic diagram



1. Product Overview

1.2 Antenna size diagram



2. Test Result

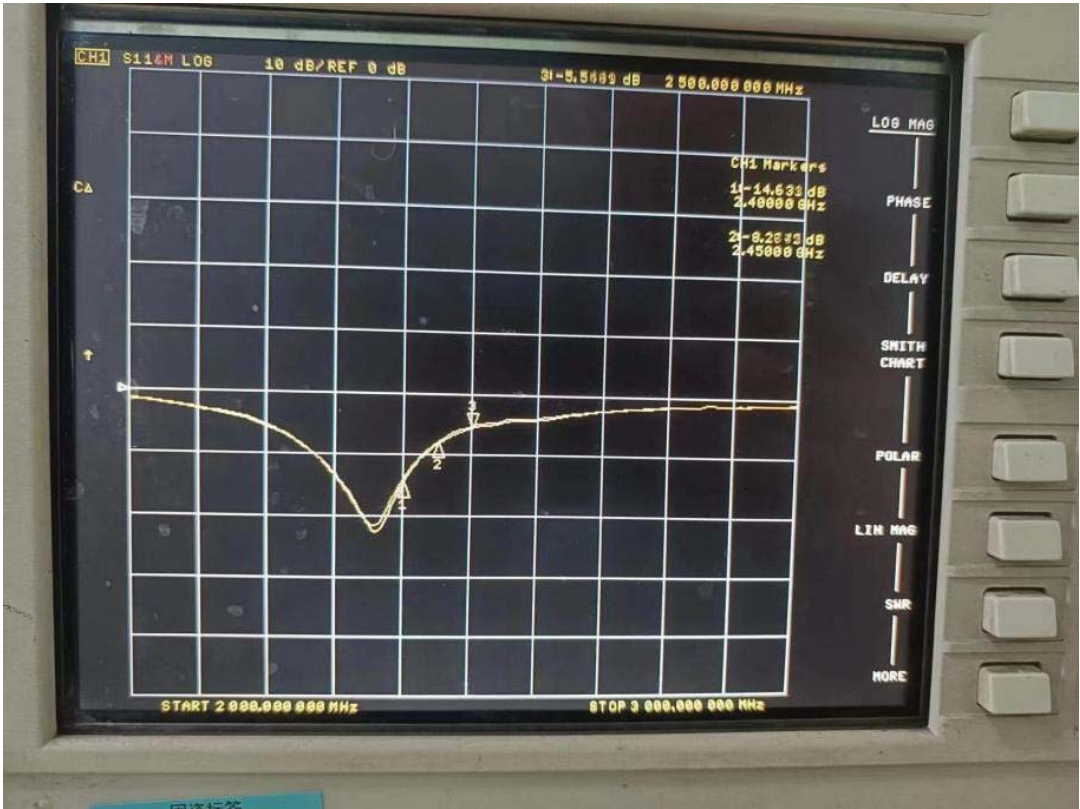
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.42	2.20	3.18

2. Test Result

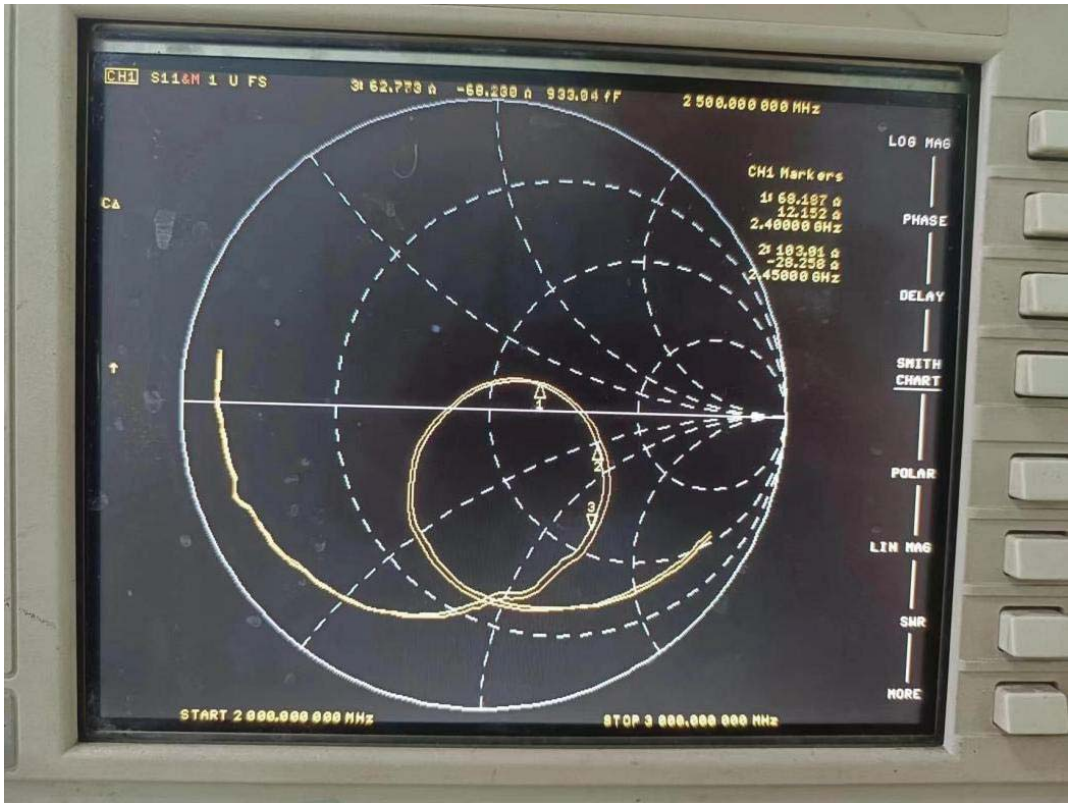
2.2 2.4G antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-14. 63	-8. 26	-5. 54

2. Test Result

2.3 2.4G antenna Smith Chart



Frequency (MHz)	2400	2450	2500
	68.18	103.01	62.77

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.97	2.08
2410	52.2	2.02
2420	45.08	1.52
2430	47.83	1.69
2440	43.4	2.03
2450	48.25	1.55
2460	45.55	1.18
2470	45.28	0.98
2480	48.1	1.04
2490	43.48	0.43
2500	40.45	-0.02