

WIFI Antenna



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
ADD	5/F, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Bao'an, Shenzhen, China
Antenna type	DIPOLE antenna
Product Description	304 nickel plating
Product No	GP2204A-BXG-A
Antenna frequency band	2400MHz-2500MHz/5150MHz-5800MHz

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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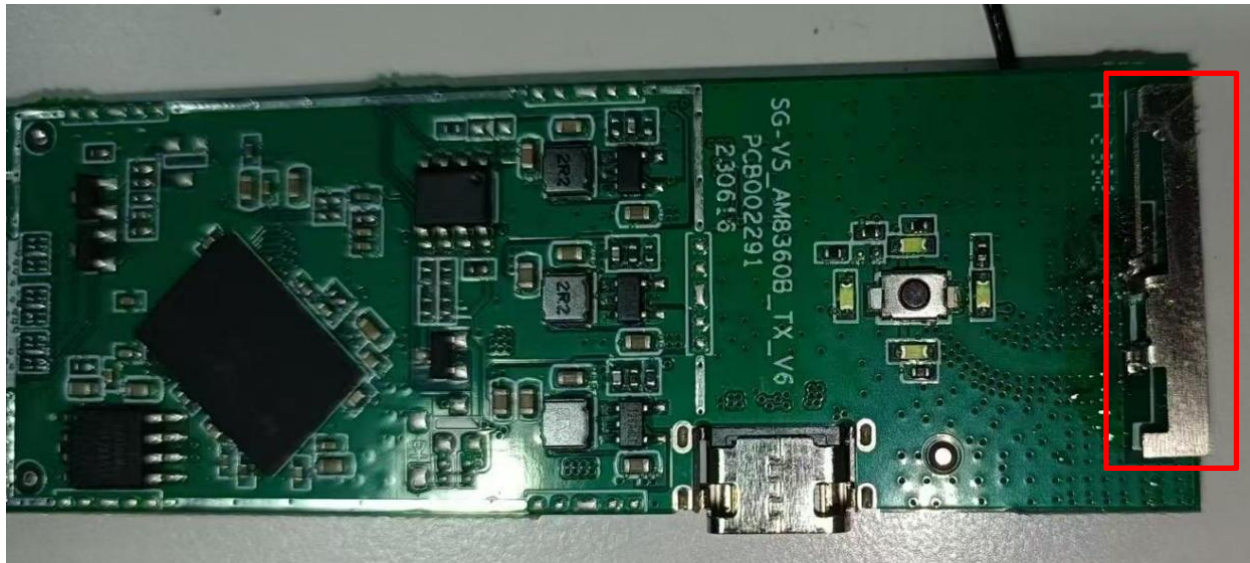
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1. Product Overview

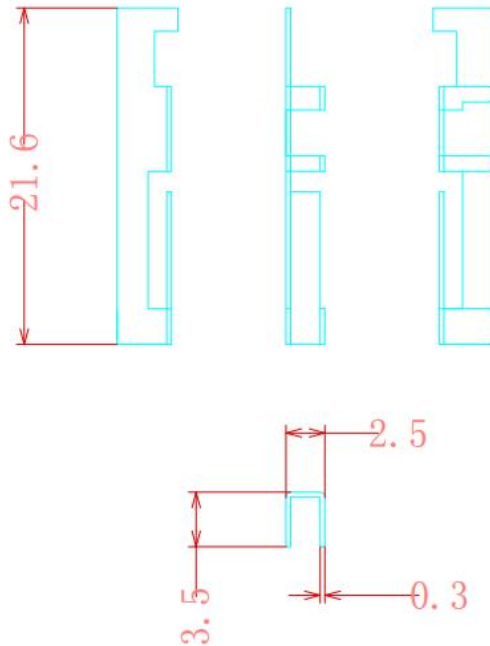
1.1 Antenna schematic diagram



1. Product Overview

1.2 Antenna size diagram

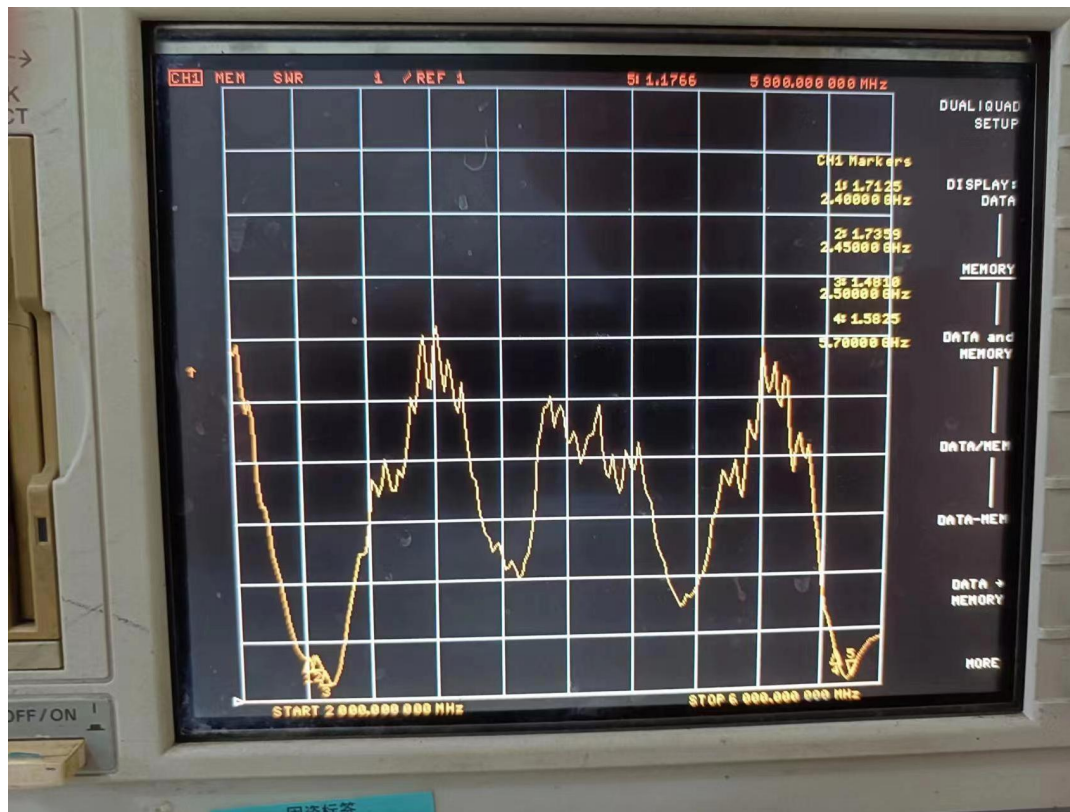
Note: All dimensions are in millimeters (mm).



Material: SUS304
nickel-plated; T=0.3

2. Test Result

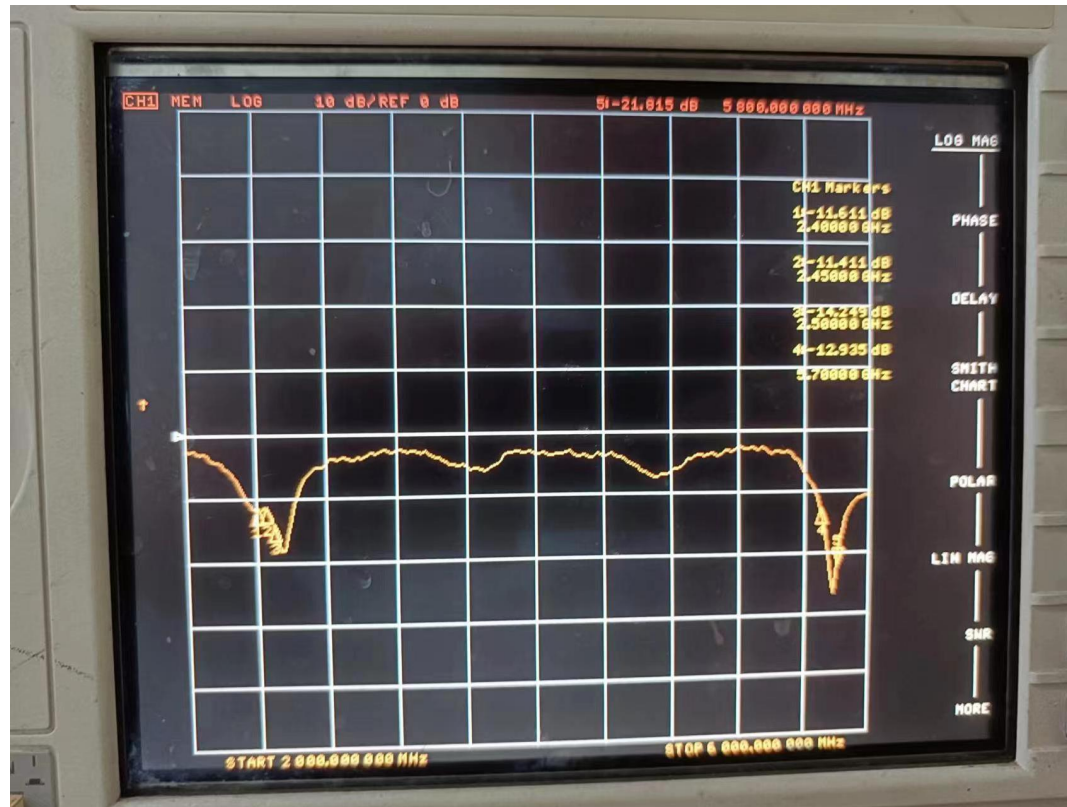
2.1 WIFI dual band steel antenna VSWR



Frequency (MHz)	2400	2450	2500	5700	5800
VSWR	1.71	1.73	1.48	1.58	1.17

2. Test Result

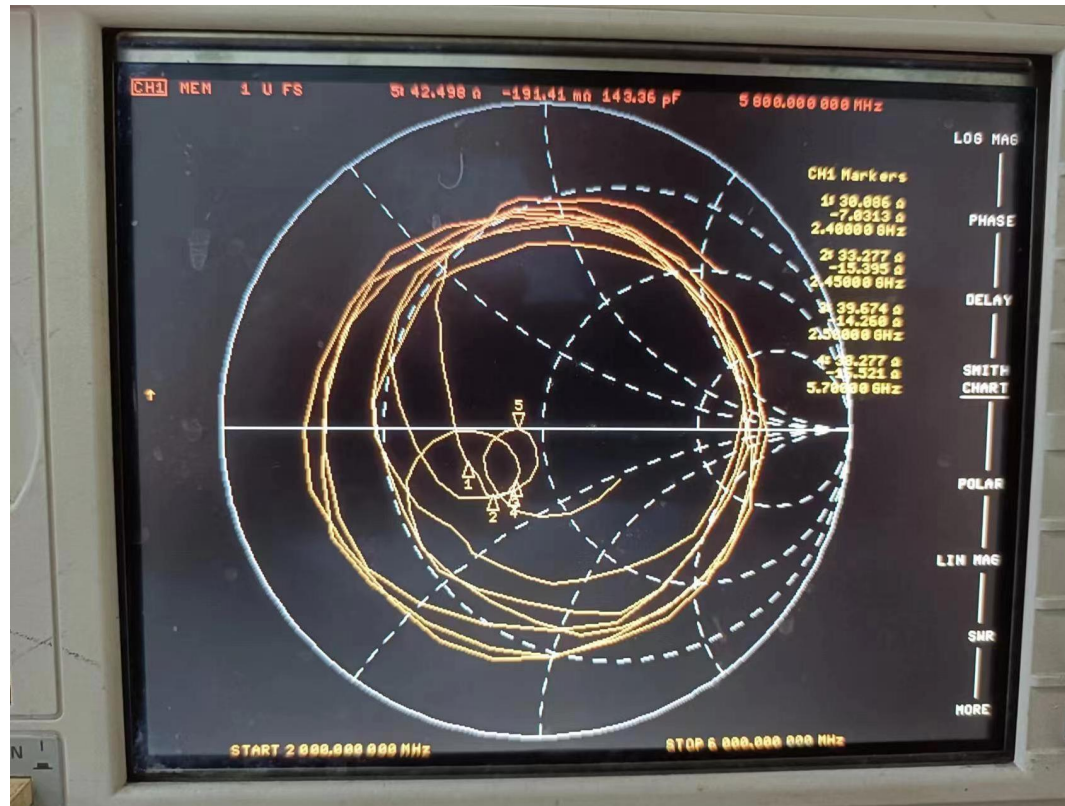
2.2 WIFI dual band steel antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500	5700	5800
RETRUN LOSS (DB)	-11.61	-11.41	-14.24	-12.93	-21.01

2. Test Result

2.2 WIFI dual band steel antenna



Frequency (MHz)	2400	2450	2500	5700	5800
	30.08	33.27	39.67	38.27	42.49

2. Test Result

2.3 *WIFI dual band steel antenna* GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	54.23	2.8
2410	51.72	2.58
2420	51.16	2.54
2430	54.41	2.81
2440	52.6	2.64
2450	51.36	2.54
2460	48.57	2.26
2470	49.1	2.31
2480	54.19	2.78
2490	51.59	2.61
2500	46.56	2.24

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	47.56	2.48
5160	43.51	2.2
5170	45.16	1.41
5180	46.57	1.56
5190	42.49	2.24
5200	37.69	1.76
5210	41.74	2.18
5220	41.33	2.1
5230	42.67	2.30
5240	39.6	1.93
5250	39.4	1.93

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5260	42.25	2.21
5270	37.22	1.63
5280	40.03	1.85
5290	39.08	1.7
5300	39.33	1.72
5310	39	2.63
5320	37.77	2.43
5330	42.66	1.88
5340	42.53	1.79
5350	44.56	1.89
5360	44.97	1.9

2. Test Result

2.3 *WIFI dual band steel antenna* GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5370	49.82	2.38
5380	44.31	1.88
5390	46.98	2.12
5400	43.1	1.59
5410	46.27	1.85
5420	43.03	2.56
5430	43.34	1.57
5440	44.84	2.67
5450	49.19	2.01
5460	48.69	1.97
5470	47.08	1.85

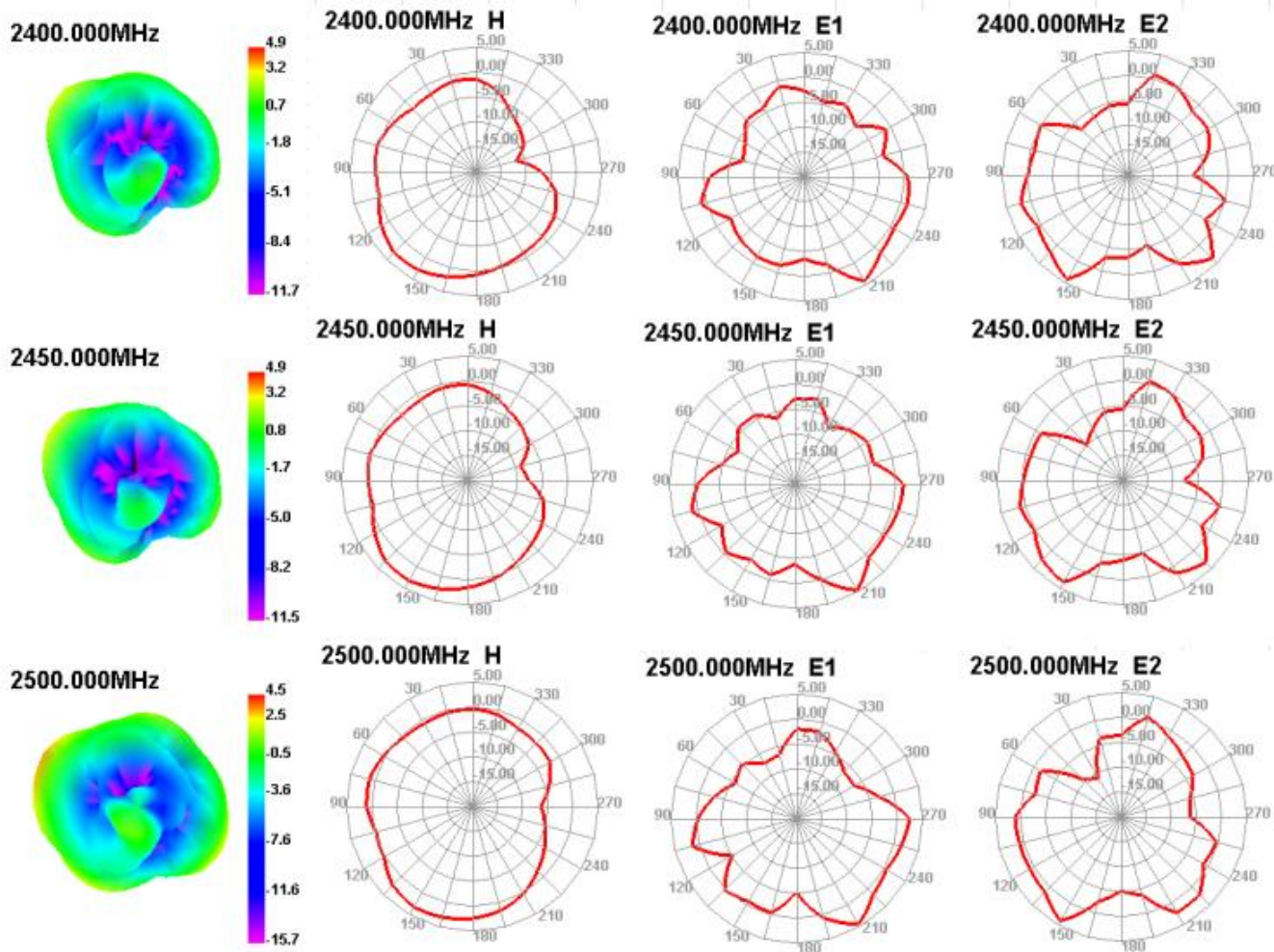
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5480	50.64	1.11
5490	45.61	2.71
5500	45.79	1.7
5510	45.69	2.66
5520	47.98	1.83
5530	46.77	1.74
5540	43.57	2.43
5550	46.06	2.57
5560	47.19	1.59
5570	45.02	2.38
5580	46.64	1.45

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5590	46.01	2.34
5600	48.13	2.43
5610	46.85	2.28
5620	46.49	2.14
5630	40.81	2.36
5640	49.82	2.2
5650	48.15	2.97
5660	49.16	1.95
5670	45.38	1.91
5680	50.32	1.94
5690	48.84	1.82

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5700	48.35	2.39
5710	47.23	2.27
5720	49.01	2.41
5730	46.78	2.23
5740	54.76	2.93
5750	52.24	2.75
5760	46.82	2.23
5770	47.64	2.3
5780	53.22	2.83
5790	50.49	2.66
5800	50.64	2.7
5810	50.54	2.61
5820	50.54	2.54
5830	50.51	2.33
5840	50.26	2.41
5850	50.33	2.56

2. Test Result

2.4 WIFI dual band steel antenna 2D & 3D Directional pattern



2. Test Result

2.4 WIFI dual band steel antenna 2D & 3D Directional pattern

