

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C520M dual band steel plate antenna
Antenna type	monopole antenna
Product Description	The FPC board is DPTX002, with a wire diameter of 1.13, black, 1st generation terminals, and the other end is soldered at a ratio of 1:1.5:2, with a total length of 40mm and terminals facing downwards
Product No	FXLK-DPTX002-IX1-040-2.4G&5G
Antenna frequency band	2400MHz-2500MHz/5700MHz-5800MHz
Address of antenna manufacturer	5th Floor, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Bao'an, Shenzhen

Purpose

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

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2.4 GAIN & Efficiency

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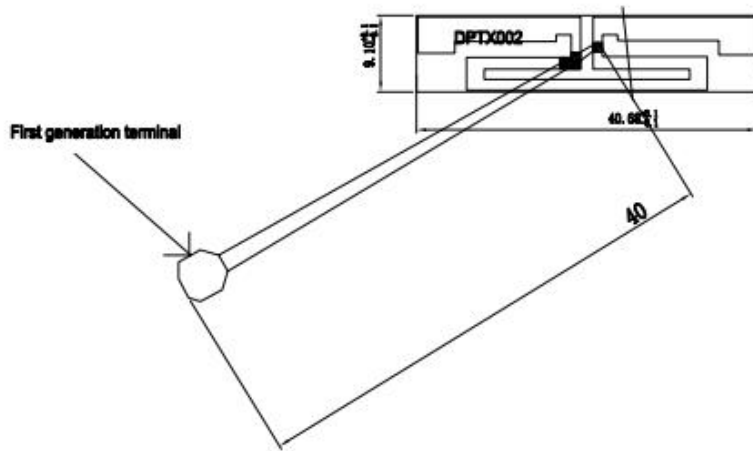
1. Product Overview

1.1 Antenna schematic diagram



1. Product Overview

1.2 Antenna size diagram

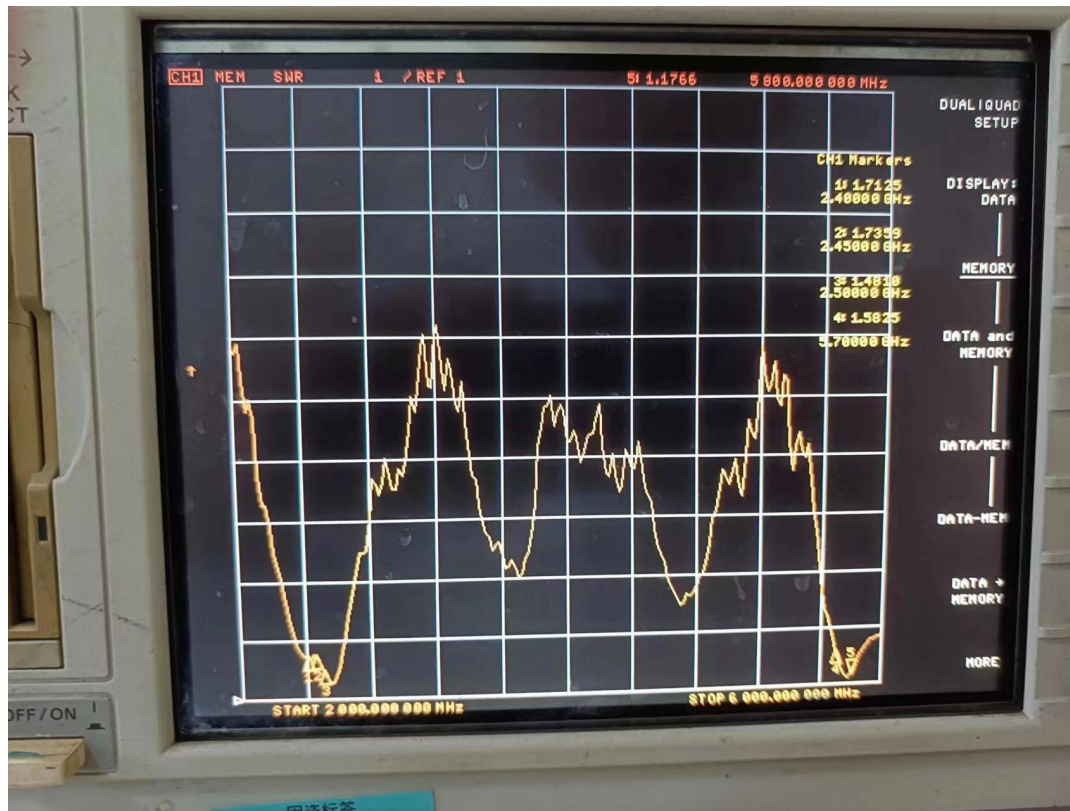


Company: mm

Single sided half with
adhesive electrolytic
copper
Front screen printing with
black oil and white text
antioxidant
Reverse 3M9471

2. Test Result

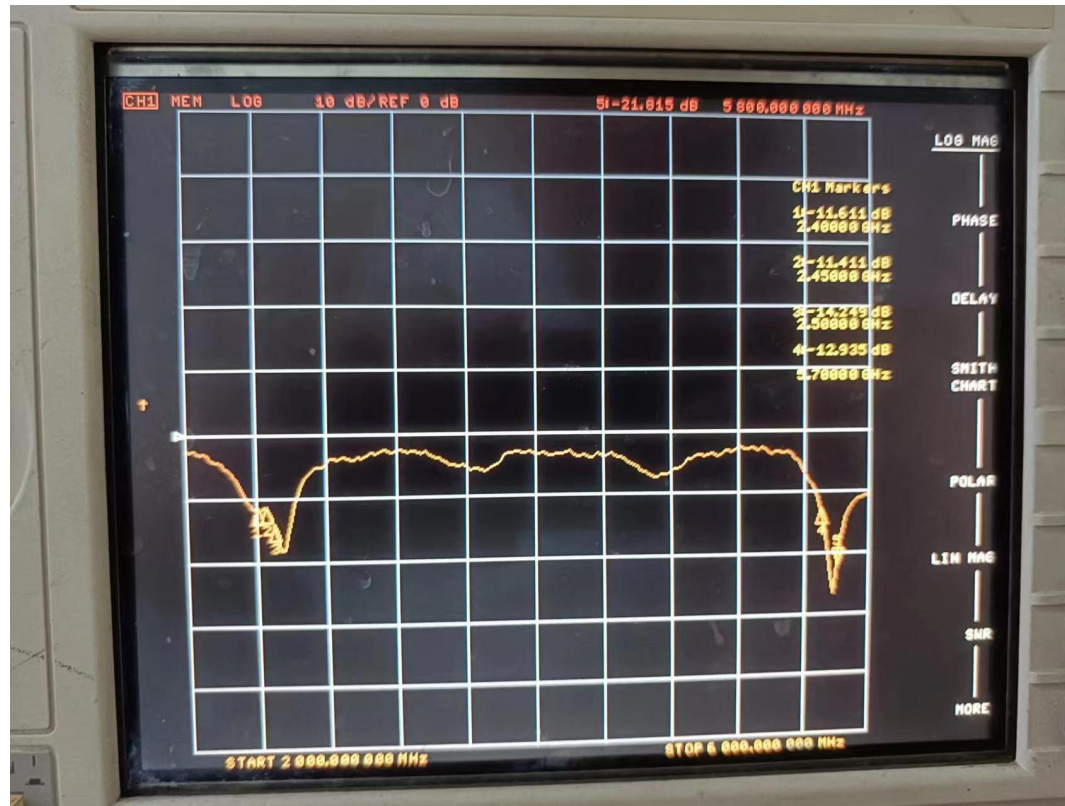
2.1 WIFI dual band antenna VSWR



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

2. Test Result

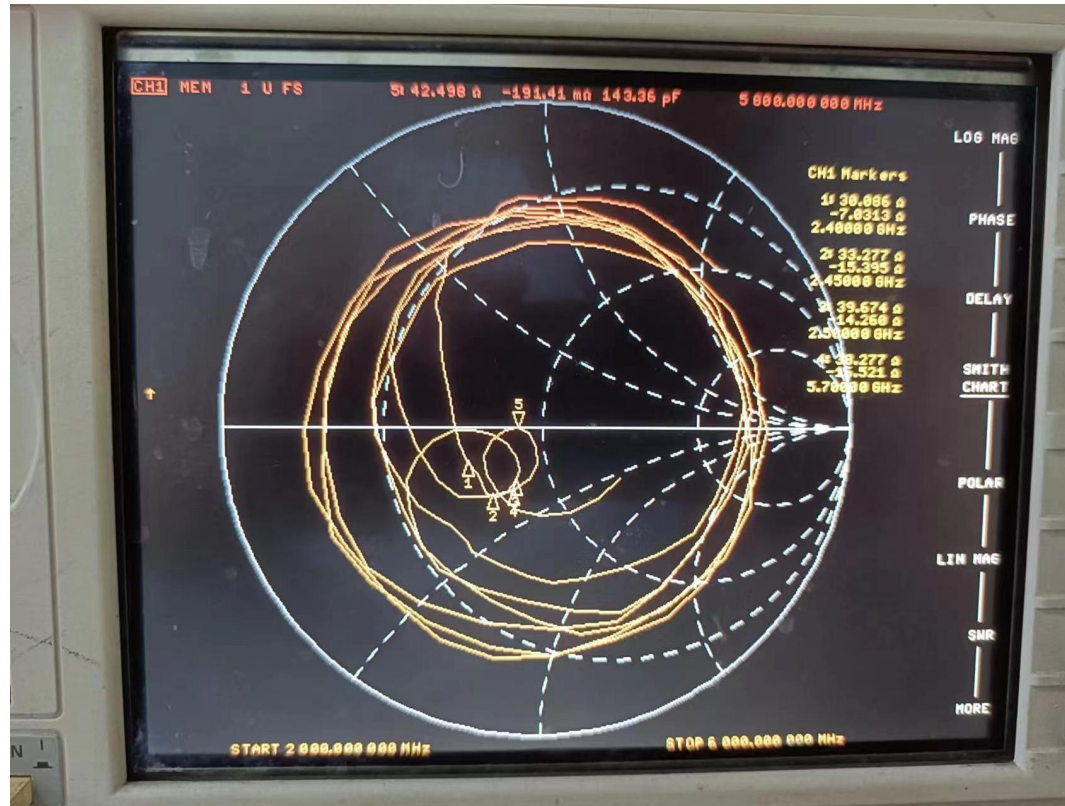
2.2 WIFI dual band antenna RETRUN LOSS



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 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 antenna GAIN & Efficiency

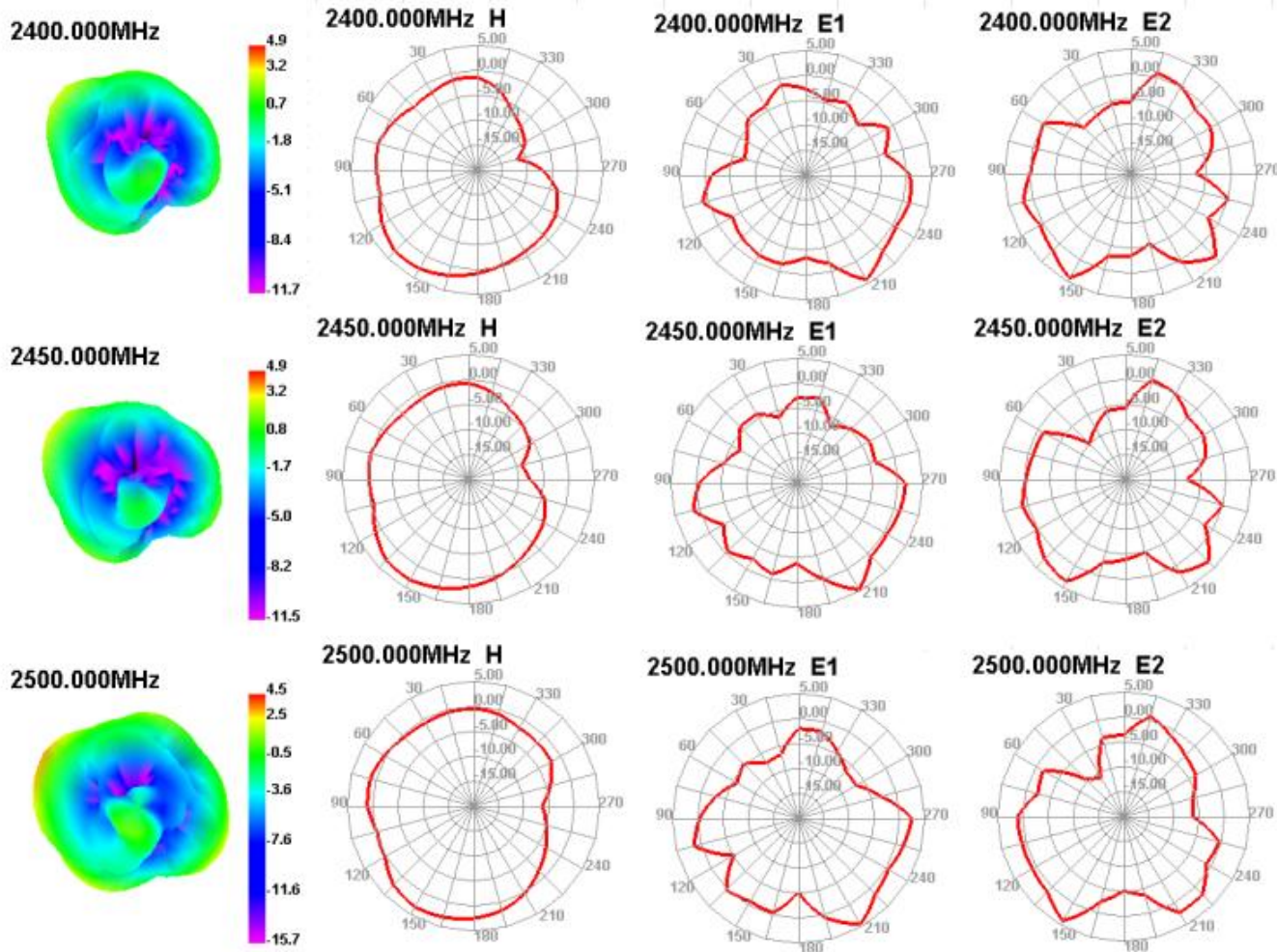
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	69.99	4.90
2410	69.79	3.78
2420	62.99	3.39
2430	67.01	3.58
2440	69.67	3.75
2450	69.95	4.90
2460	70.25	3.84
2470	65.91	3.58
2480	62.64	3.87
2490	63.74	3.84
2500	62.32	4.50

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5000	46.26	2.71
5050	46.61	2.49
5100	47.28	2.56
5150	48.22	2.81
5200	53.43	3.52
5250	47.46	3.16
5300	54.72	3.95
5350	47.02	2.69
5400	45.41	2.94
5450	44.8	2.52
5500	44.27	2.65

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5550	60.46	2.90
5600	59.15	2.72
5650	53.63	2.23
5700	59.04	4.00
5750	62.7	3.2
5800	56.99	4.00
5850	55.4	3.01
5900	52.78	2.83
5950	57.8	2.39
6000	57.89	2.35

2. Test Result

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



2. Test Result

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

