

 Shenzhen Feixun Lianke Electronics Co., Ltd

BT/WIFI antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	BT/WIFI antenna
Antenna type	monopole antenna
Product Description	The FPC soft board is DPTX002-B, with a wire diameter of 1.13, black, and a bus length of 65mm. The FPC soldering ratio is 1:1.5:2, and the client is a first generation terminal with the terminal facing up
Product No	FXLK-DPTX002-B-IX1-065-2.4/5G
Antenna frequency band	2400MHz-2500MHz/5000MHz-5800MHz
Address of antenna manufacturer	5th Floor, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Bao'an, Shenzhen

December 19, 2024

Purpose

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

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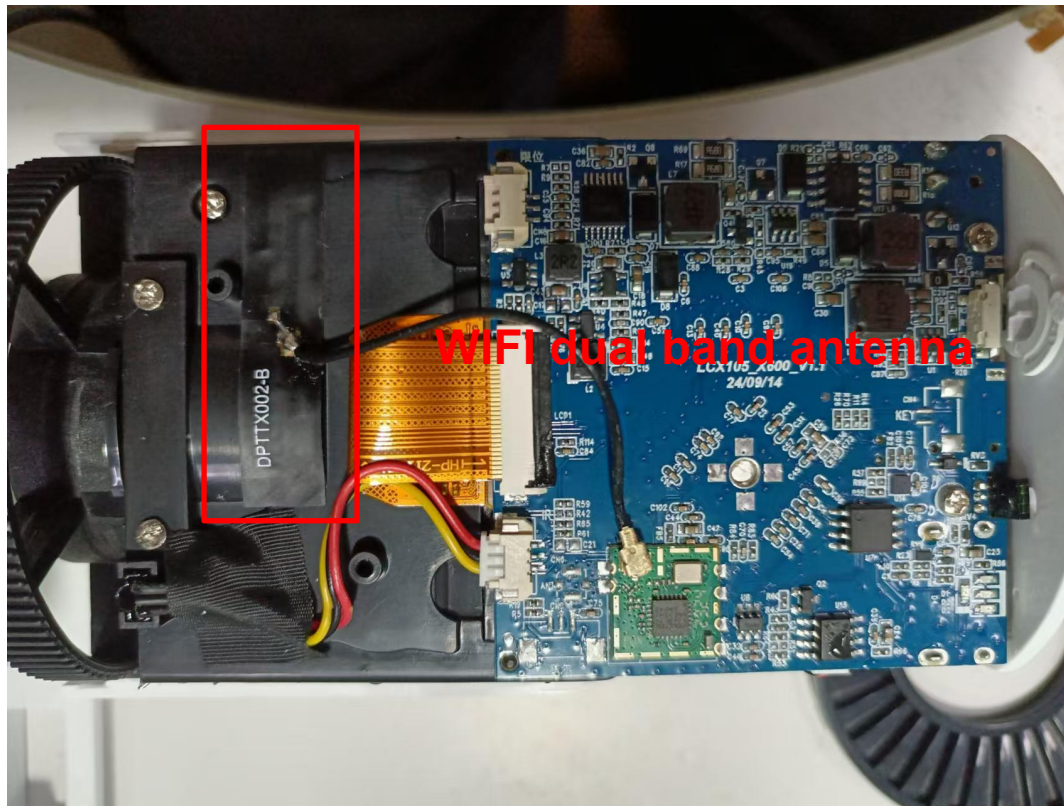
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1. Product Overview

1.1 Assembly diagram of WIFI dual band antenna

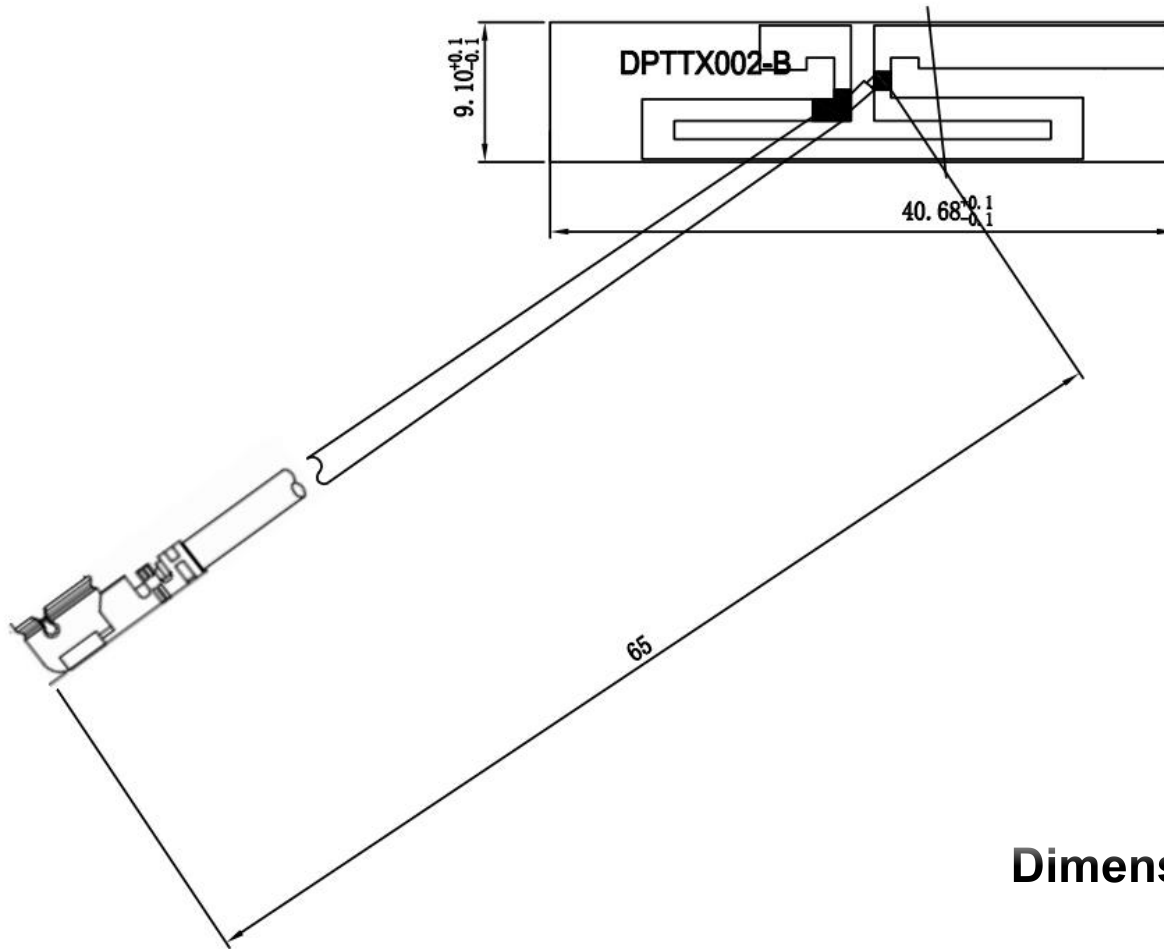
Antenna frequency



Assembly diagram of WIFI dual band antenna

1. Product Overview

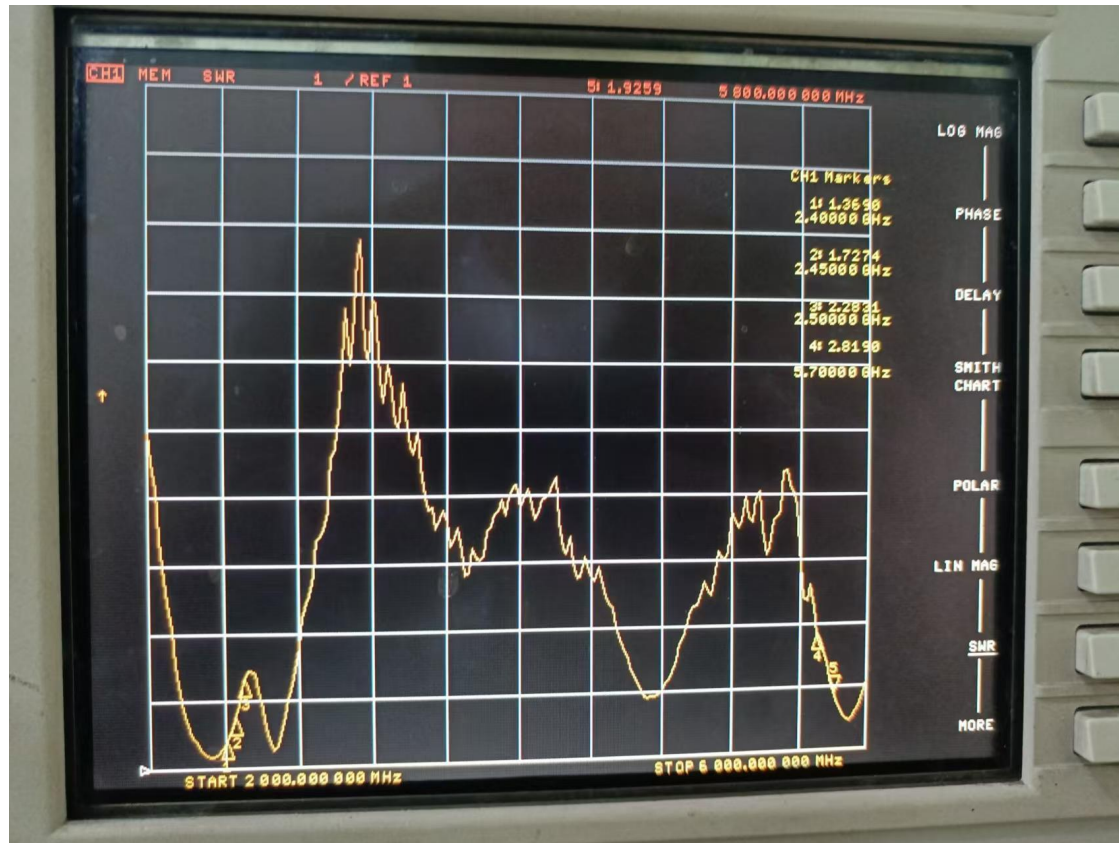
1.2 Antenna size diagram



Dimensional units:mm

2. Test Result

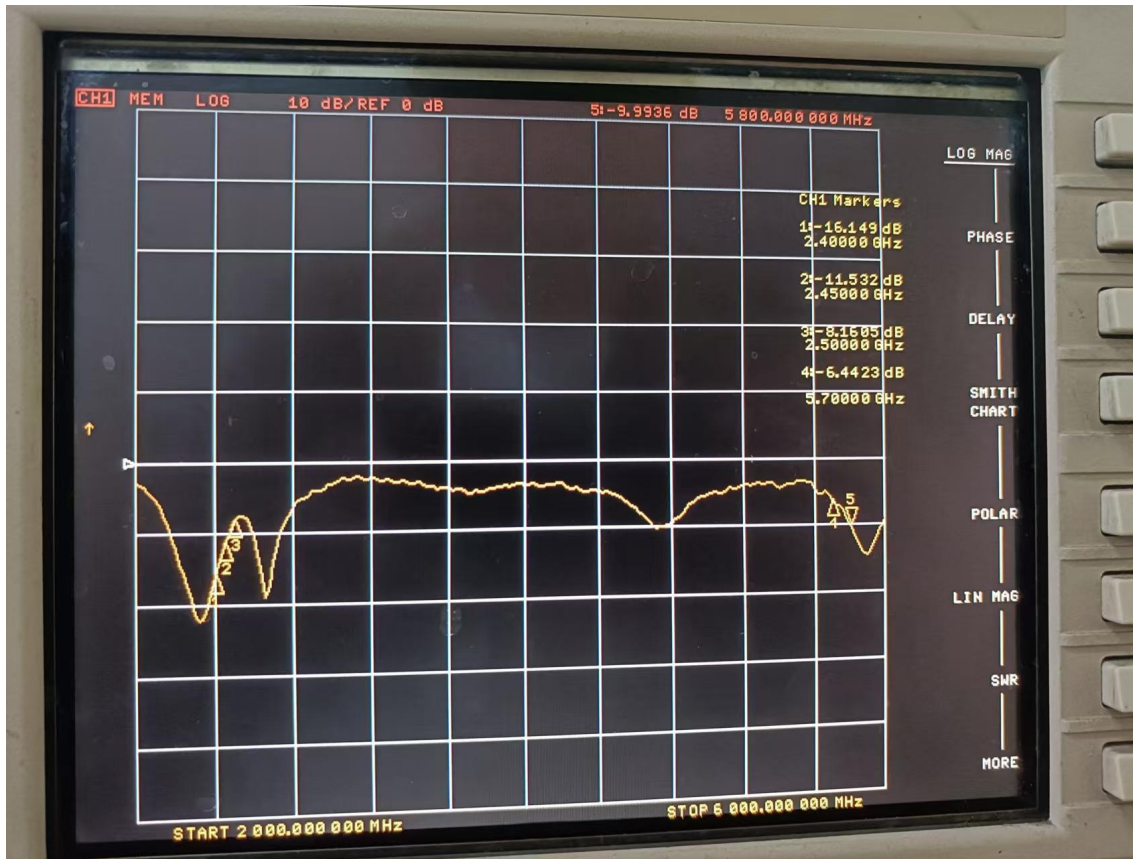
2.1 BT/WIFI antenna VSWR



Frequency (MHz)	2400	2450	2500	5710	5800
VSWR	1.36	1.72	2.28	2.01	1.92

2. Test Result

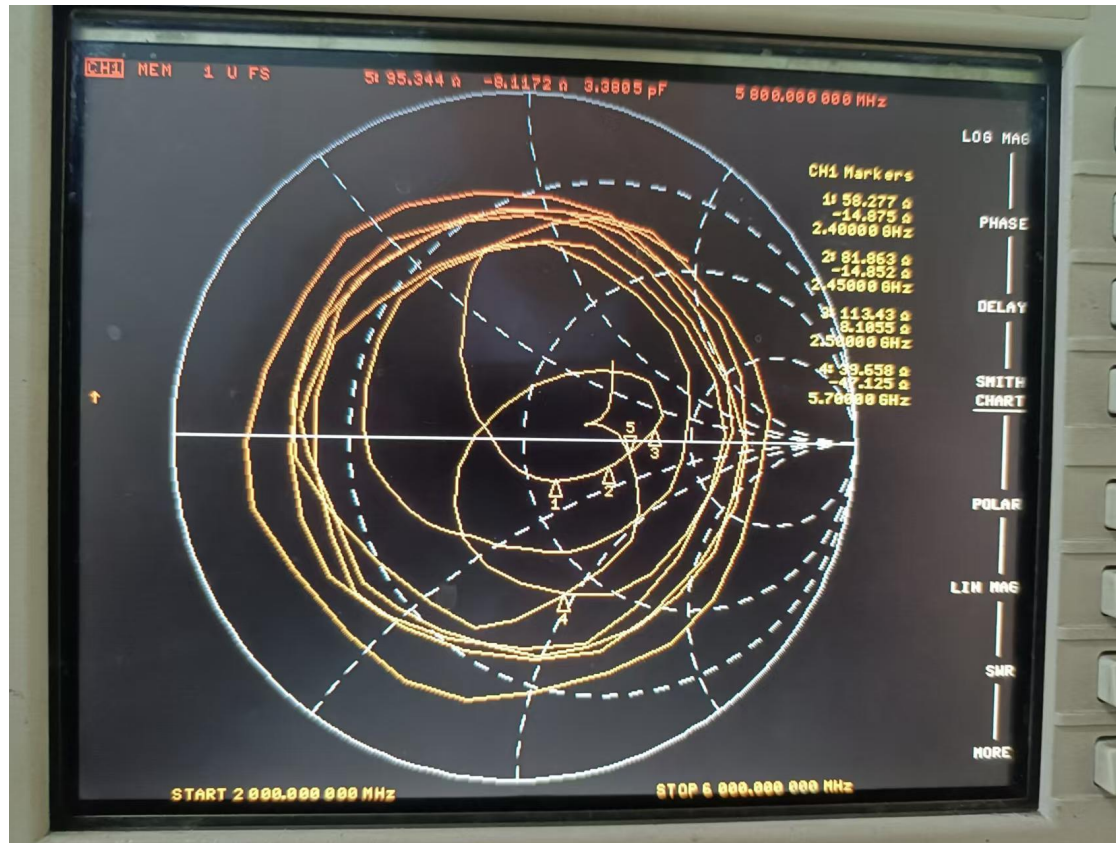
2.2 BT/WIFI antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500	5710	5800
RETRUN LOSS (DB)	-16.14	-11.53	-8.16	-6.44	-9.99

2. Test Result

2.3 BT/WIFI antenna *Smith Chart*



Frequency (MHz)	2400	2450	2500	5710	5800
	58.27	81.86	113.43	39.65	95.34

2. Test Result

BT/WIFI antenna GAIN & Efficiency

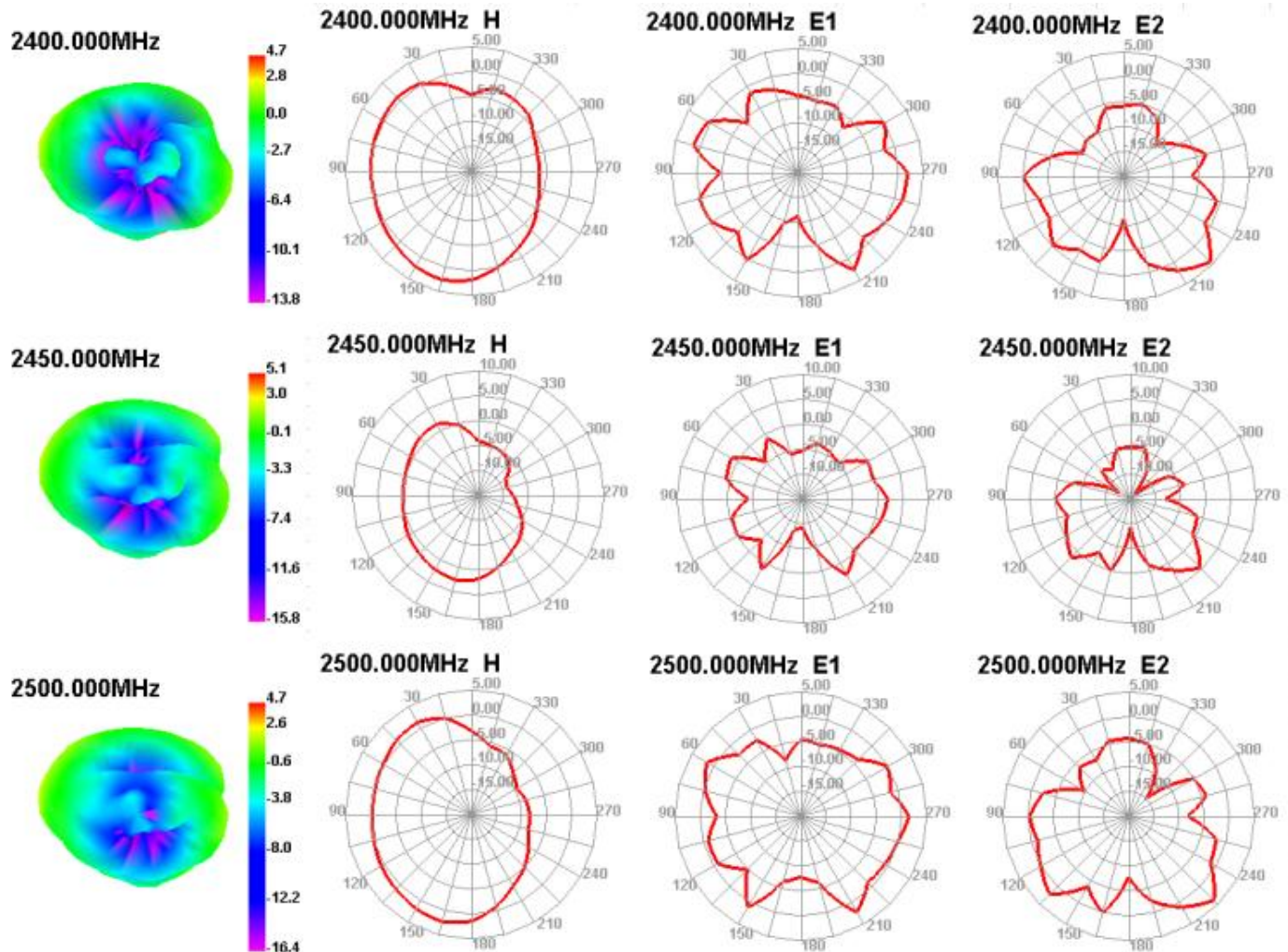
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	51.98	3.66
2410	53.57	3.82
2420	56.9	3.42
2430	53.38	3.82
2440	58.35	3.55
2450	57.95	3.89
2460	52.97	3.79
2470	50.08	3.5
2480	55.4	3.81
2490	55.26	3.86
2500	52.86	3.67

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5200	53.43	3.52
5210	45.74	2.92
5220	49.42	3.29
5230	51.29	3.80
5240	51.47	3.49
5250	47.46	3.16
5260	49.07	3.3
5270	46.91	3.14
5280	52.18	3.66
5290	48.68	3.4
5300	54.72	3.95

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5700	46.85	3.71
5710	46.54	3.61
5720	47.96	3.83
5730	46.78	3.68
5740	44.88	3.5
5750	42.83	3.28
5760	49.41	3.84
5770	50.53	3.89
5780	44.64	3.29
5790	43.51	3.13
5800	46.39	3.37

2. Test Result

BT/WIFI antenna 2D & 3D Directional



2. Test Result

BT/WIFI antenna 2D & 3D Directional pattern

