



深圳市飞讯联科电子有限公司
Shenzhen Feixun Lianke Electronics Co., Ltd.

WIFI Antenna Test Report



Customer	Anshijia
Project	C690 WIFI dual frequency steel sheet antenna
Antenna Revision	A0
Product Description	
Product No	GP1611B-BXG-A

Antenna Designation: Bipolar Antenna

Add: Building 2, 5th Floor, Jiwei Daowugou Factory, Jiwei Community, Hangcheng Subdistrict,
Bao'an District, Shenzhen City

2025.12.19



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Purpose

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

Content

1: Product Overview

2: Test Result

2.1 VSWR

2.2 RETRUN LOSS

2.3 GAIN & Efficiency

2.4 *2D & 3D Directional pattern*

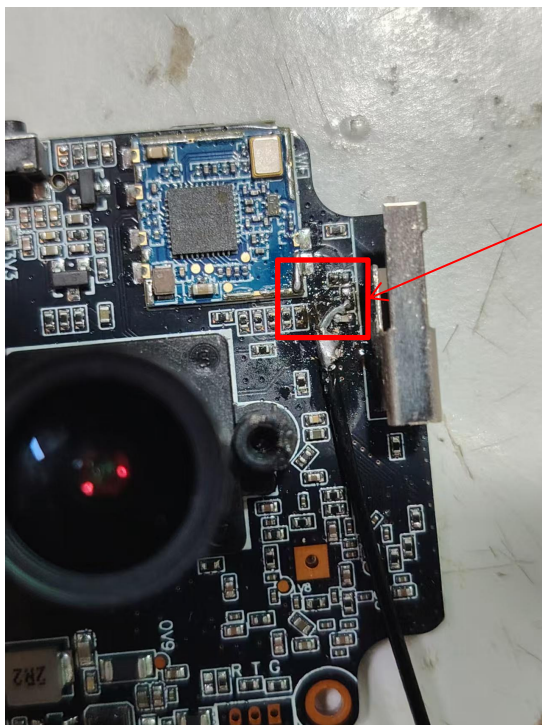


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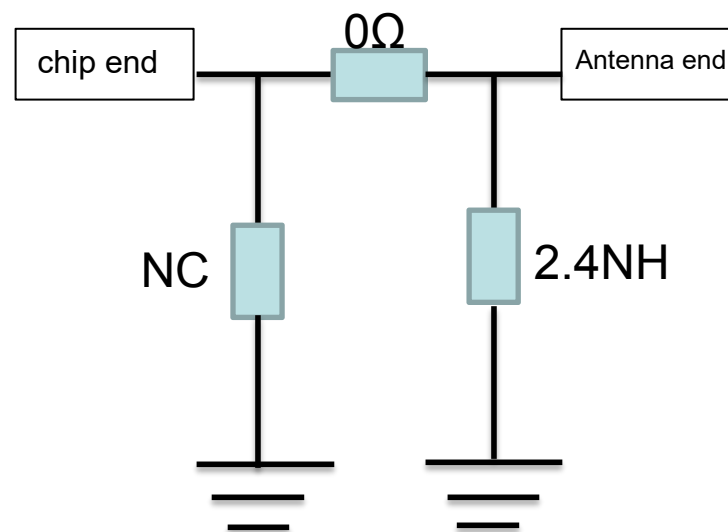
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1. Product Overview

Antenna frequency



Matching parameters :



WIFI Dual frequency steel sheet antenna



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2. Test Result

2.1 *WIFI Dual Frequency Steel Antenna* OTA

Frequency	802.11b/11Mbps			802.11a/54Mbps		
channel	1	6	12	36	60	161
TRP	21	22	21	16	15	16
TIS			-82			-70

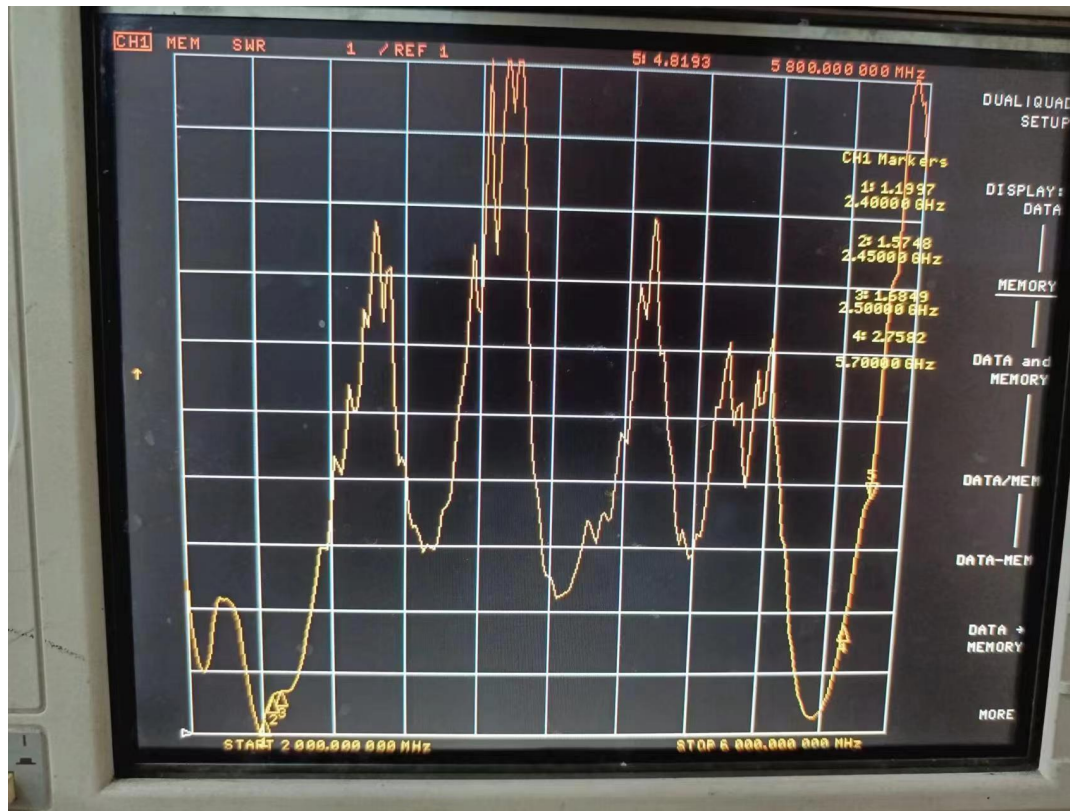


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2. Test Result

2.1 WIFI Dual frequency steel sheet antenna VSWR



Frequency (MHz)	2400	2450	2500	5700	5800
VSWR	1.19	1.57	1.68	2.75	4.81

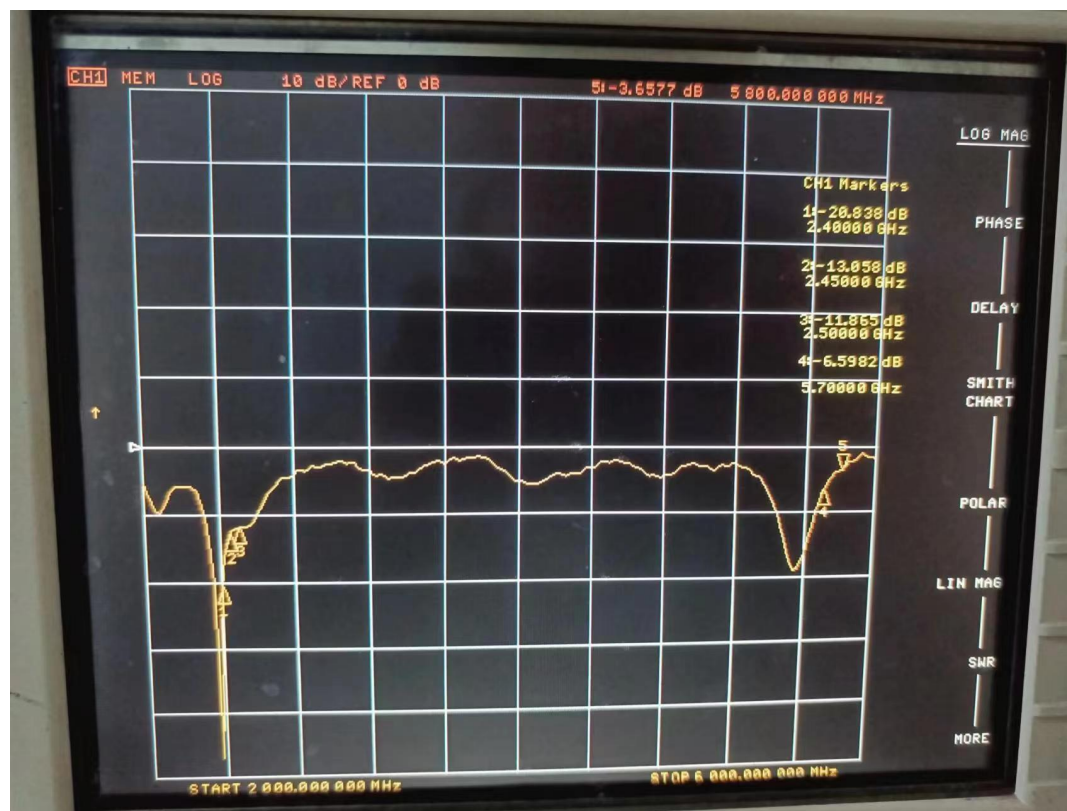


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2. Test Result

2.2 WIFI Dual frequency steel sheet antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500	5700	5800
RETRUN LOSS (DB)	-20.83	-13.05	-11.86	-6.59	-3.65

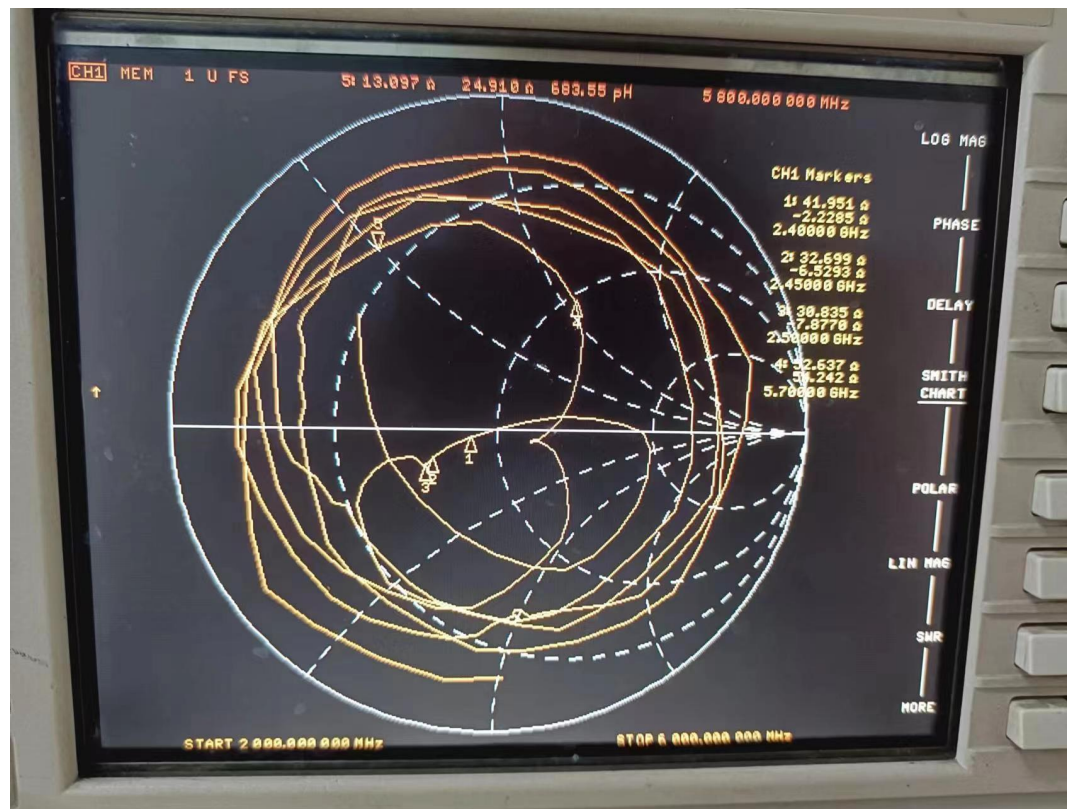


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2. Test Result

2.2 WIFI Dual frequency steel sheet antenna



Frequency (MHz)	2400	2450	2500	5700	5800
	41.95	32.69	30.83	52.63	13.09



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2. Test Result

2.3 WIFI Dual frequency steel sheet antenna GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	40.07	1.28
2410	41.14	1.09
2420	41.55	1.71
2430	40.54	1.83
2440	47.45	1.85
2450	40.31	1.73
2460	41.26	2.42
2470	49.67	1.72
2480	49.8	1.85
2490	45.55	2.71
2500	43.57	2.76

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	43.14	1.72
5160	45.26	1.63
5170	46.31	1.51
5180	44.53	1.49
5190	48.75	1.71
5200	45.26	1.42
5210	42.31	1.46
5220	44.28	1.35
5230	46.21	1.76
5240	44.52	1.2
5250	43.68	1.23

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5700	45.47	2.12
5710	48.23	1.16
5720	47.82	1.48
5730	43.46	1.44
5740	47.84	1.74
5750	43.43	1.38
5760	43.67	1.43
5770	44.26	1.39
5780	47.14	1.77
5790	44	1.2
5800	42.6	1.07

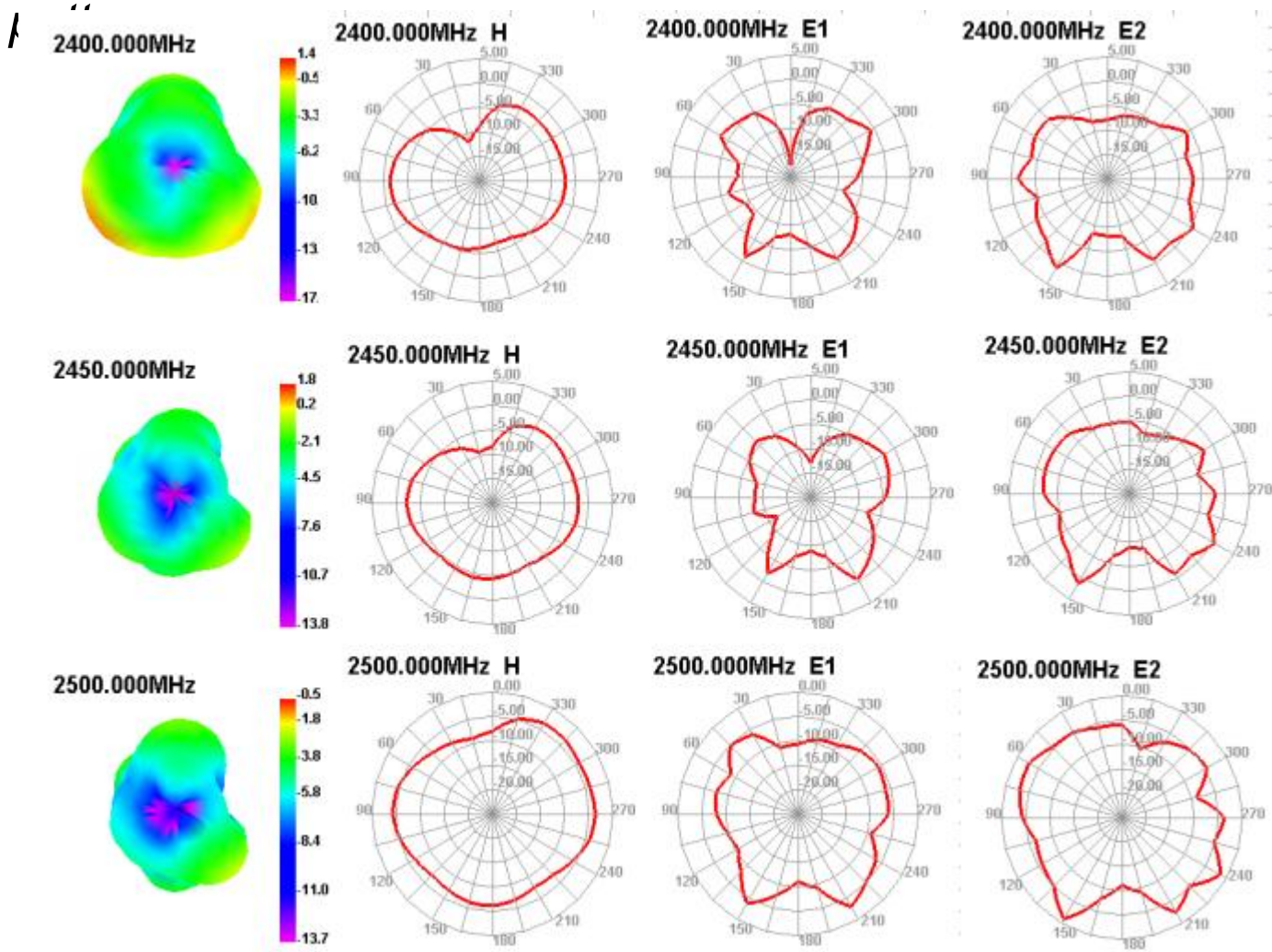


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2. Test Result

2.4 WIFI Dual frequency steel sheet antenna 2D & 3D Directional





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2. Test Result

2.4 WIFI Dual frequency steel sheet antenna 2D & 3D Directional pattern

