

WIFI Antenna Test Report



Customer	百思威
Project	X8 WIFI双频天线
Antenna Revision	A0
Product Description	
Product No	

2025.02.10

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*

1. Product Overview

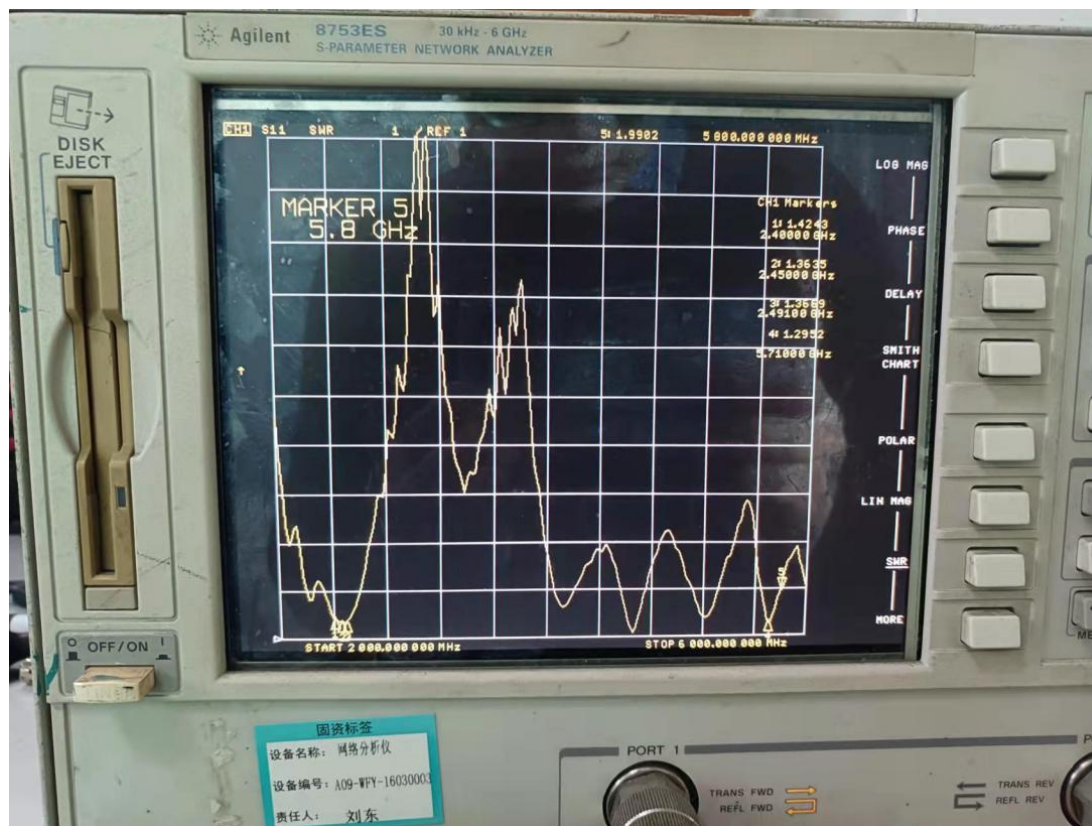
Antenna frequency



WIFI双频FPC天线

2. Test Result

2.1 WIFI双频天线 VSWR



Frequency (MHz)	2400	2450	2500	5700	5800
VSWR	1.42	1.36	1.36	1.29	1.99

2. Test Result

2.3 WIFI双频天线 GAIN & Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.55	2.99	5050	54.36	2.58	5150	53.47	2.00	5260	40.6	2.9
2410	49.83	2.95	5060	53.74	1.92	5160	55.66	2.16	5270	34.73	2.23
2420	48.33	2.83	5070	52.69	1.97	5170	54.84	2.22	5280	35.37	2.32
2430	51.55	3.1	5080	56.54	2.34	5180	55.55	2.67	5290	40.25	2.9
2440	48.89	2.75	5090	57.11	2.91	5190	53.91	2.71	5300	40.96	2.97
2450	54.75	3.01	5100	57.80	2.88	5200	56.79	2.87	5310	37.33	2.55
2460	54.62	2.75	5110	56.89	2.34	5210	54.97	2.54	5320	36.78	2.42
2470	50.8	2.55	5120	56.13	2.36	5220	58.61	2.42	5330	37.08	2.38
2480	56.51	3.12	5130	55.29	2.19	5230	54.88	2.34	5340	40.61	2.69
2490	56	3.11	5140	56.78	2.05	5240	55.74	2.88	5350	39.46	2.43
2500	57.4	3.13	5150	53.47	2.00	5250	56.98	2.65	5360	41.08	2.58
									5370	42.78	2.7
									5380	38.58	2.27
									5390	39.18	2.21
									5400	40.89	2.37
									5410	44.05	2.58
									5420	40.96	2.13
									5430	37.33	1.62
									5440	40.05	1.97
									5450	42.57	2.31
									5460	37.22	1.74

2. Test Result

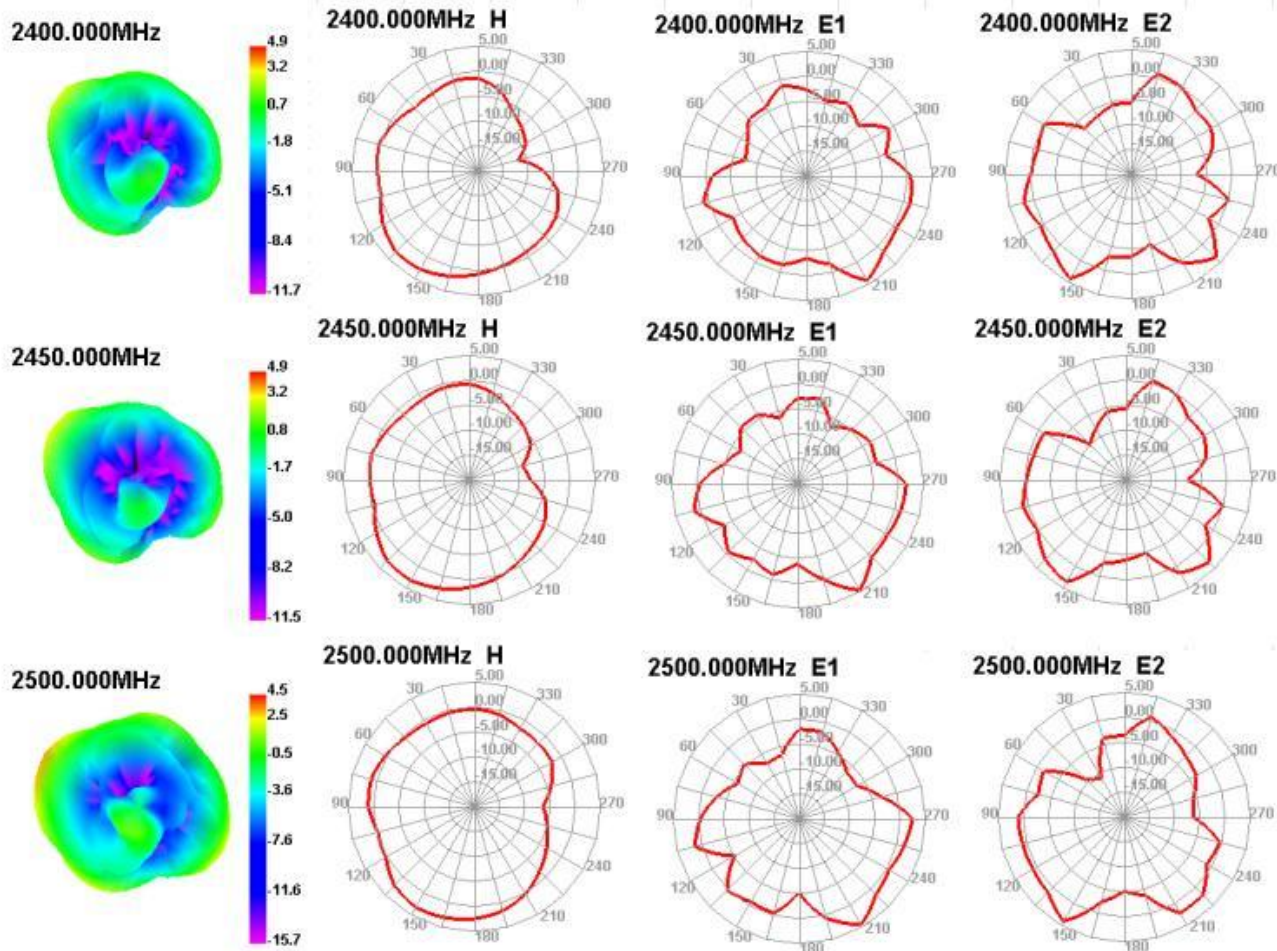
2.3 WIFI双频天线 GAIN & Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
5470	41.08	2.58
5480	42.78	2.7
5490	38.58	2.27
5500	39.18	2.21
5510	40.89	2.37
5520	44.05	2.58
5530	40.96	2.13
5540	37.33	1.62
5550	40.05	1.97
5560	42.57	2.31
5570	37.22	1.74
5580	39.85	2.09
5590	36.56	1.7
5600	37.42	1.83
5610	36.58	1.79
5620	38.16	2.03
5630	39.28	2.21
5640	40.48	2.34
5650	35.75	1.78
5660	38.96	2.2
5670	41.85	2.51
5680	41.79	2.49
5690	38.56	2.11

Freq (MHz)	Effi (%)	Gain (dBi)
5700	53.26	2.58
5710	53.27	2.62
5720	55.53	2.82
5730	52.47	2.65
5740	58.5	3.18
5750	58.18	3.2
5760	52.82	2.8
5770	52.95	2.82
5780	58.69	3.26
5790	57.4	3.11
5800	56.08	2.96
5810	56.16	2.93
5820	60.25	3.25
5830	62.34	3.41
5840	62.26	3.46
5850	59.89	3.3

2. Test Result

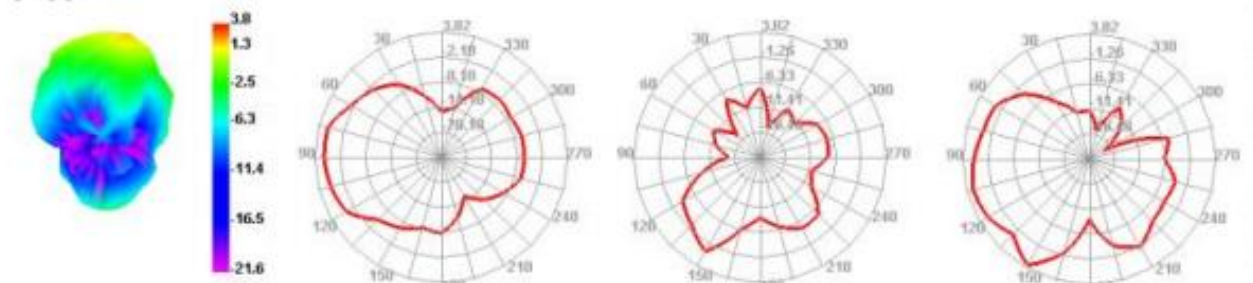
2.4 WIFI双频天线 2D&3D Directional pattern



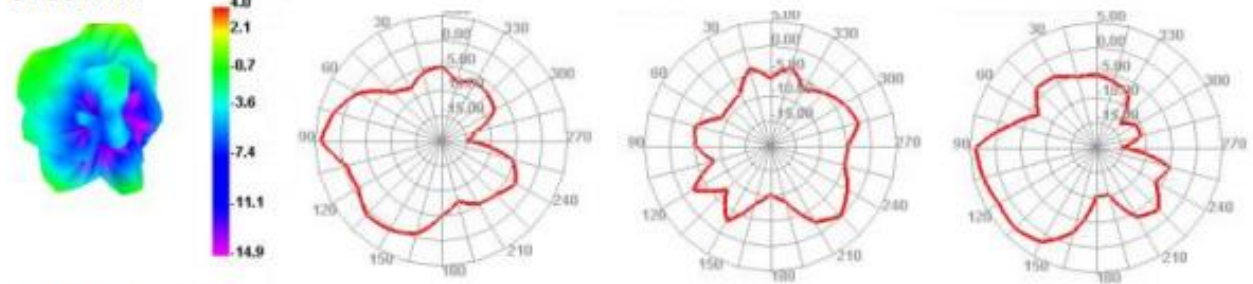
2. Test Result

2.4 WIFI双频天线 2D&3D Directional pattern

5100MHz



5700MHz



5800MHz

