

DJI Antenna Datasheet

OQ101 Wi-Fi antenna

2024-07-08



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Dave.li	2024.07.08

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	OQ101 WiFi Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.85GHz		
4	Connector Type	Ipex-4		
5	Impedance	50ohm		
6	Gain	Antenna0: 0.87dBi@2.4~2.483GHz 1.08dBi@5.15~5.25GHz 1.34dBi@5.725~5.85GHz Antenna1: 0.85dBi@2.4~2.483GHz 1.04dBi@5.15~5.25GHz 1.32dBi@5.725~5.85GHz		
7	Efficiency	≥25%		
8	VSWR	≤3		
9	Polarization type	Linear		
10	3dB Beam width	≥60deg		
11	Weight	1g		
12	Antenna type	IFA antenna		
13	Manufacturer	Kunshan Innowave		



		Communication Technology Co., Ltd. INPAQ Technology (Suzhou) Co., Ltd		
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Antenna efficiency and gain:



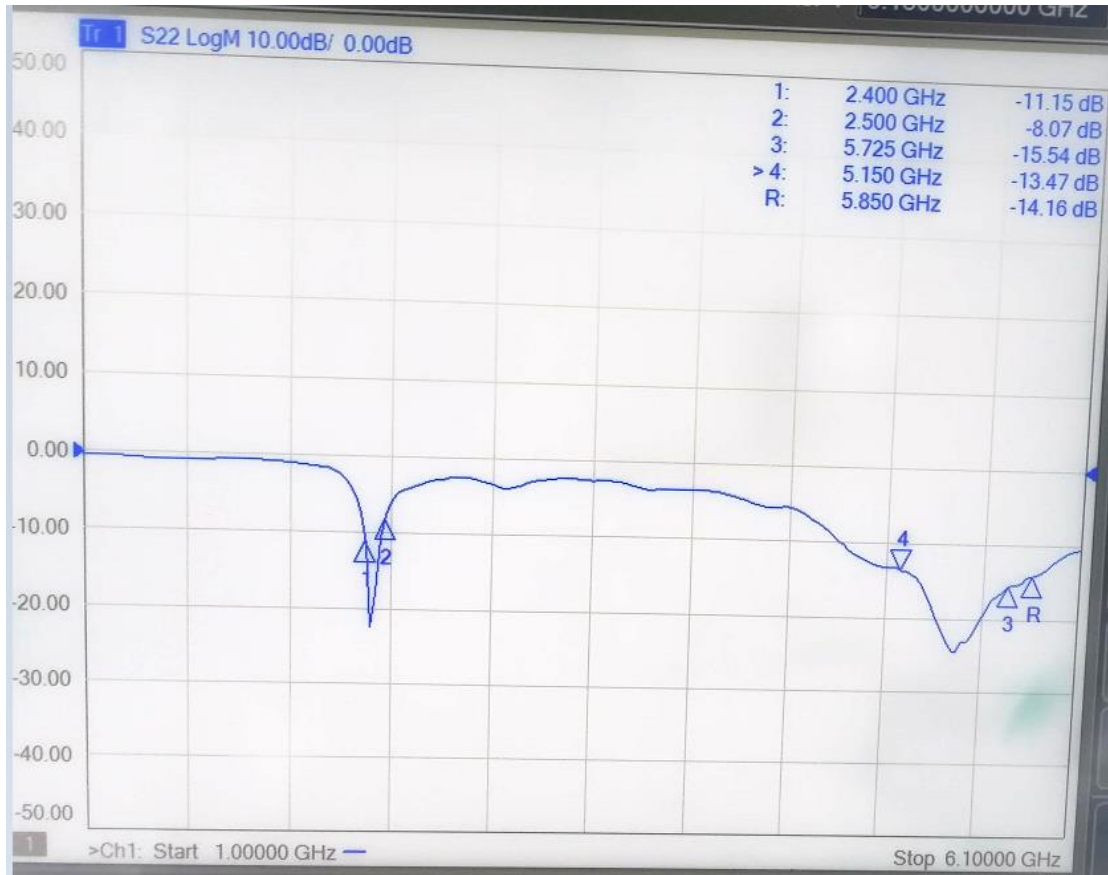
Antenna efficiency and gain: ↵

↵	Antenna0↵		Antenna1↵		↵
Frequency↵	Efficiency↵	Gain , dB↵	Efficiency↵	Gain , dB↵	↵
2400MHz↵	28%↵	0.17↵	25%↵	0.22↵	↵
2410MHz↵	26%↵	0.56↵	26%↵	0.51↵	↵
2420MHz↵	25%↵	0.67↵	26%↵	0.77↵	↵
2440MHz↵	27%↵	0.87↵	27%↵	0.85↵	↵
2450MHz↵	25%↵	0.74↵	27%↵	0.66↵	↵
2460MHz↵	25%↵	0.61↵	25%↵	0.57↵	↵
2470MHz↵	27%↵	0.11↵	26%↵	0.82↵	↵
2480MHz↵	28%↵	0.42↵	26%↵	0.74↵	↵
5150MHz↵	27%↵	1.08↵	28%↵	1.04↵	↵
5200MHz↵	27%↵	1.07↵	27%↵	1.00↵	↵
5250MHz↵	25%↵	1.07↵	29%↵	0.91↵	↵
5725MHz↵	28%↵	1.17↵	30%↵	1.01↵	↵
5750MHz↵	28%↵	1.19↵	28%↵	1.24↵	↵

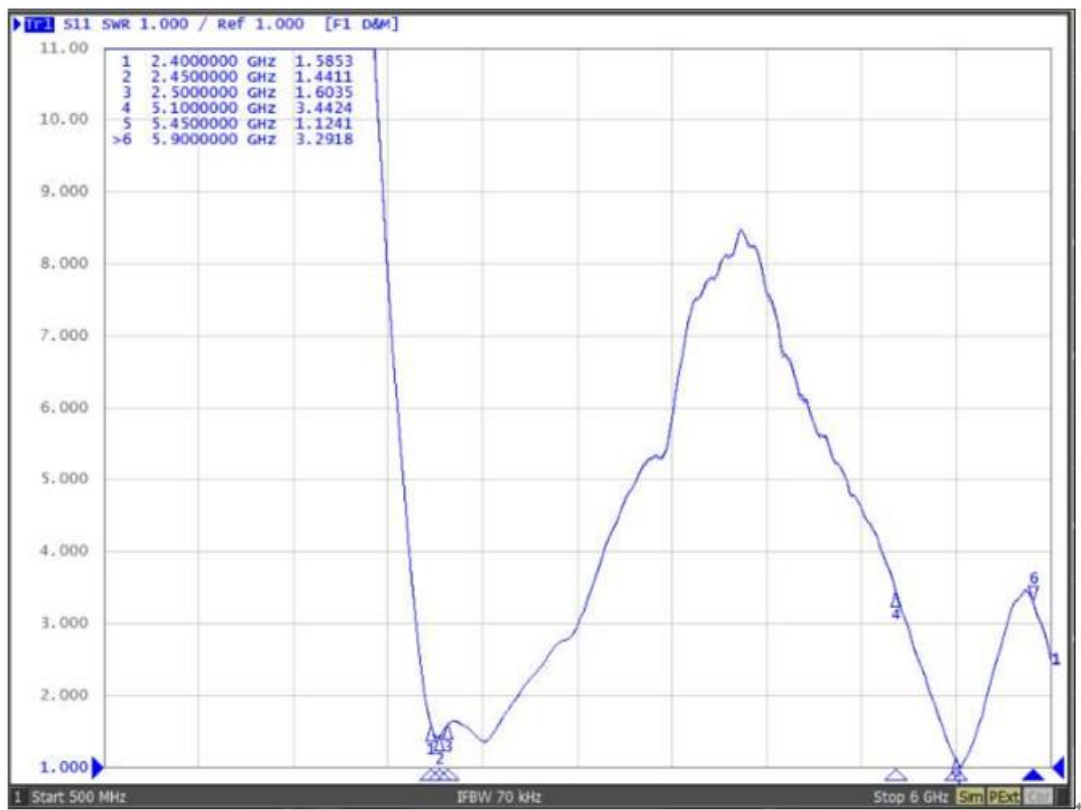
5775MHz↵	28%↵	1.34↵	26%↵	1.10↵	↵
5800MHz↵	27%↵	1.32↵	26%↵	1.31↵	↵
5825MHz↵	27%↵	1.33↵	26%↵	1.32↵	↵
5850MHz↵	25%↵	1.26↵	26%↵	1.22↵	↵

2、 Antenna Return Loss/VSWR

Antenna0



Antenna1:



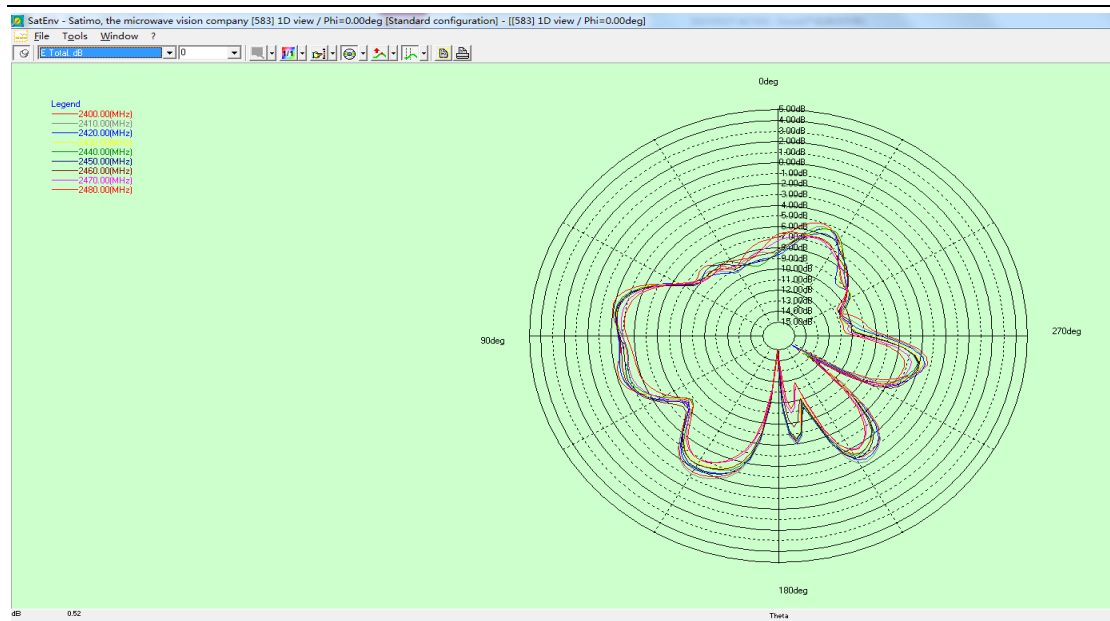
3、 Radiation Pattern

Test lab: Satimo SG24

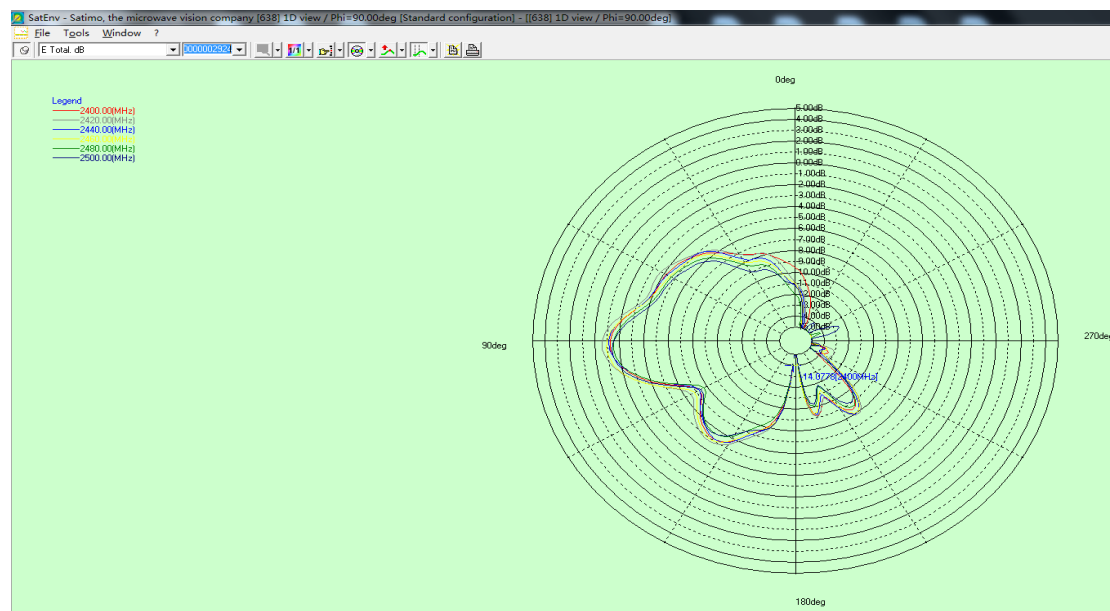
Test date: 2024/7/8

3.1 Wi-Fi antenna 2.4G radiation pattern

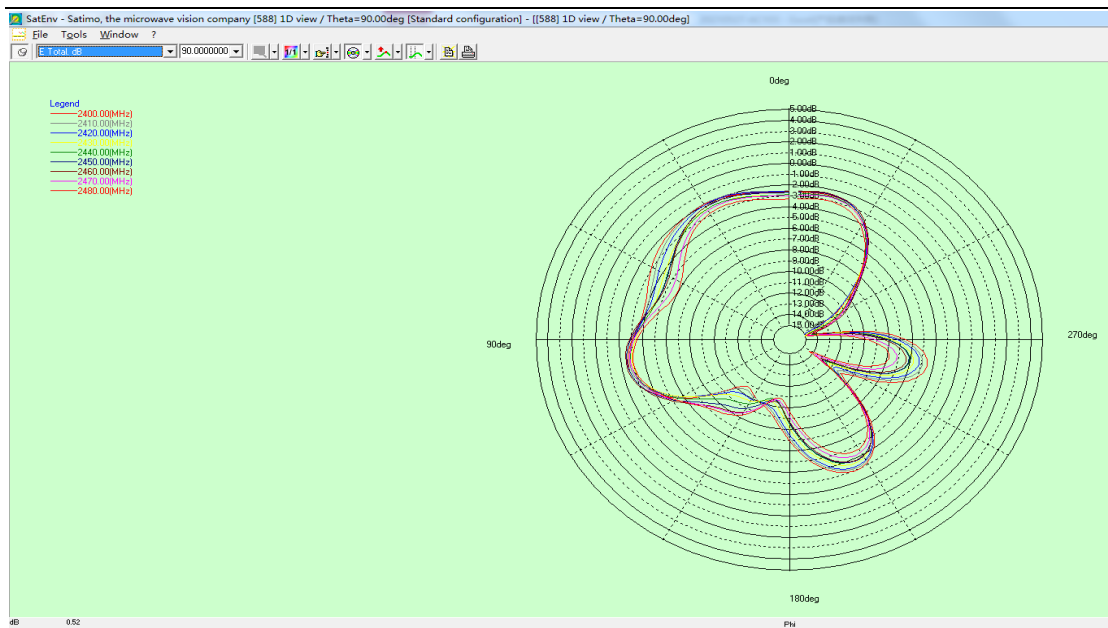
Phi=0



Phi=90

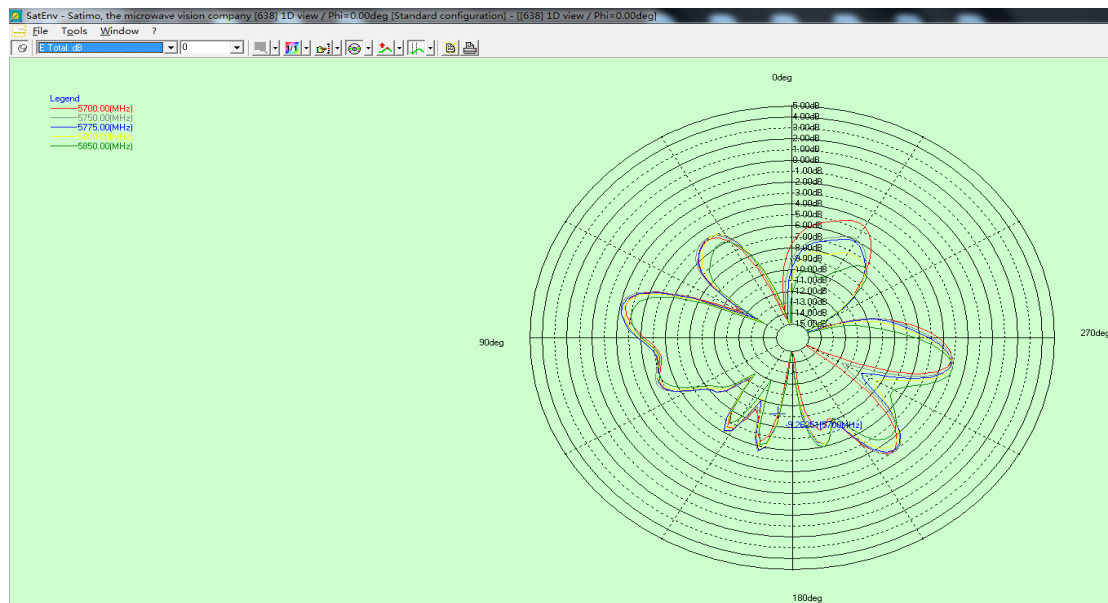


Theta=90

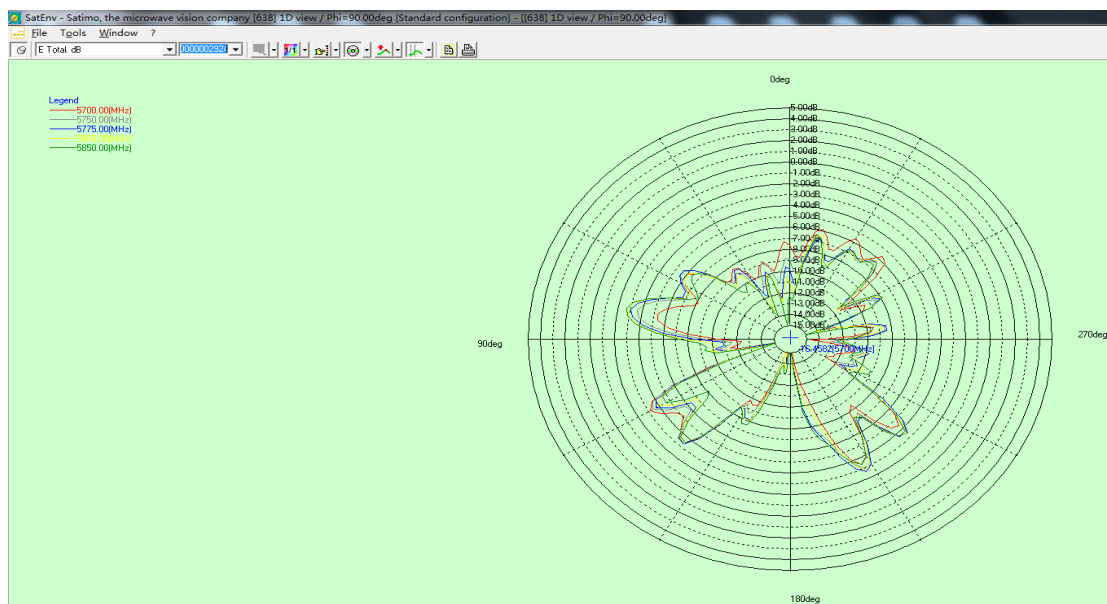


3.2 Wi-Fi antenna 5G radiation pattern

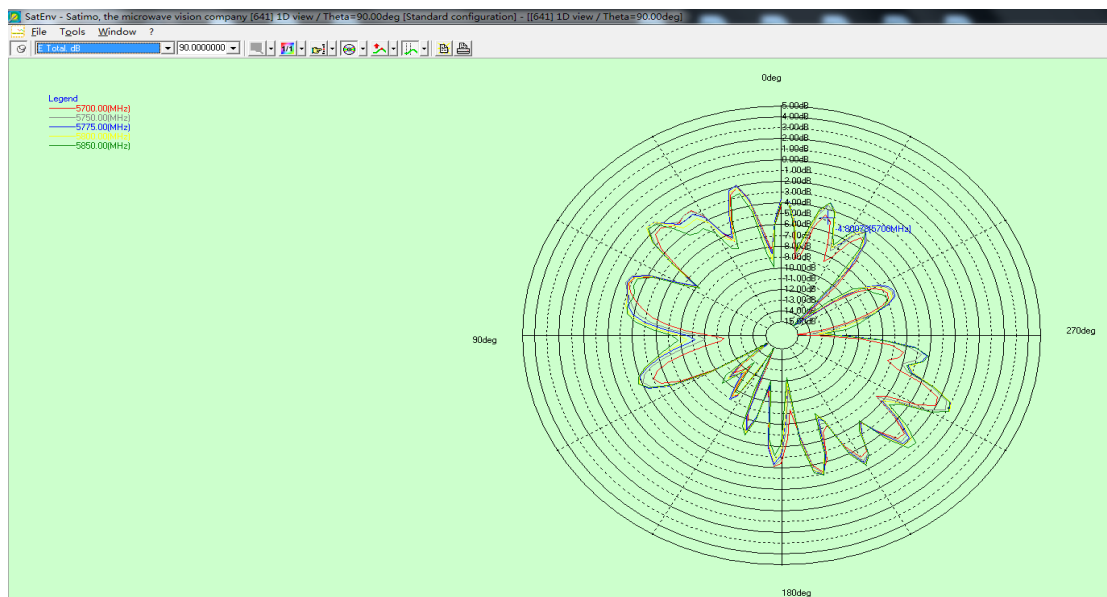
Phi=0



Phi=90

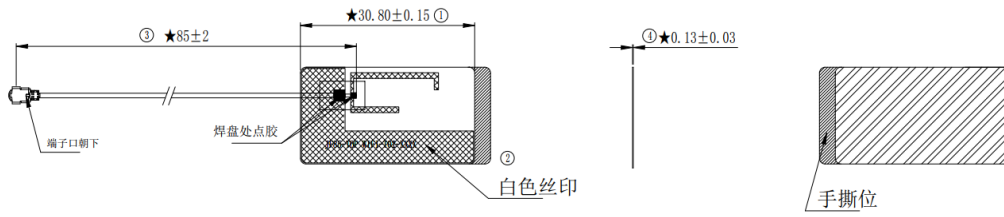


Theta=90

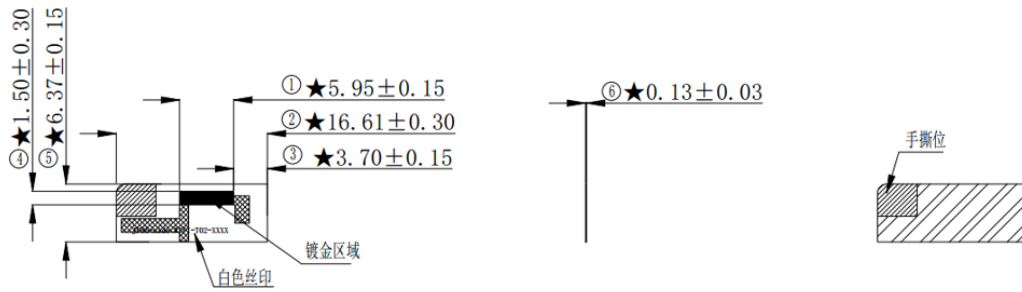


4 Structure drawing

Antenna0:



Antenna1:



正面(走线+哑黑色油墨+丝印)

反面(背胶)