

DJI Antenna Datasheet

RC331 antenna

2023-02-23



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Stephen.Wan	2023.02.22

DJI Antenna Datasheet

1、 Basic Specifications

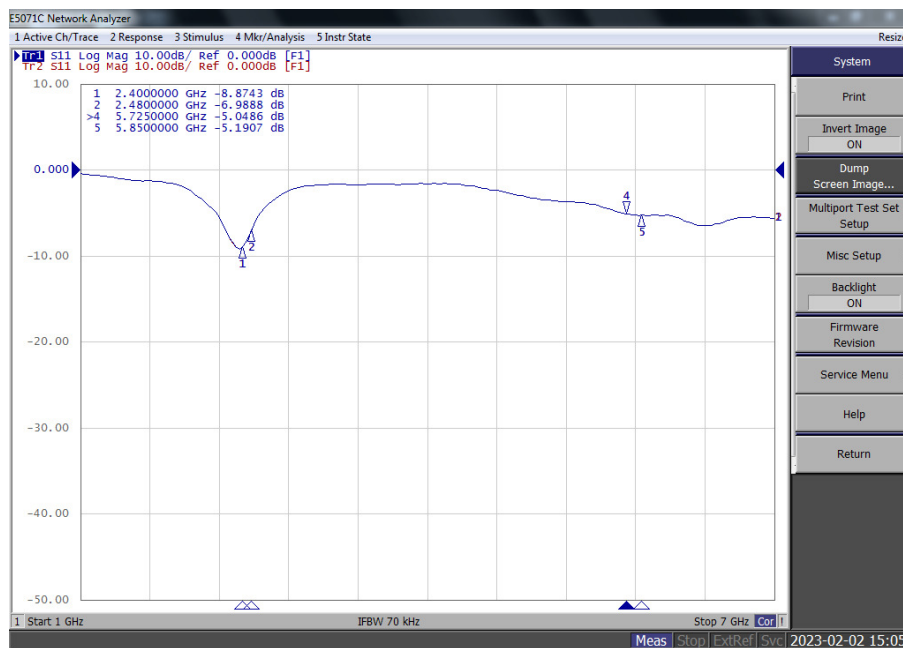
No.	Specification	Descriptions	Notes	
1	Antenna Name	RC331 WiFi Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.85GHz		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	Ant0: 2.5dBi@2.4~2.483GHz WIFI 4dBi@5.15~5.25GHz WIFI 5dBi@5.725~5.875GHz WIFI Ant1: 3.5dBi@2.4~2.483GHz WIFI 1dBi@5.15~5.25GHz WIFI 3.5dBi@5.725~5.875GHz WIFI		
7	Efficiency	$\geq 20\%$ WIFI		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	PCB		

2、 Antenna Return Loss/VSWR

2.1 W IFI antenna return loss

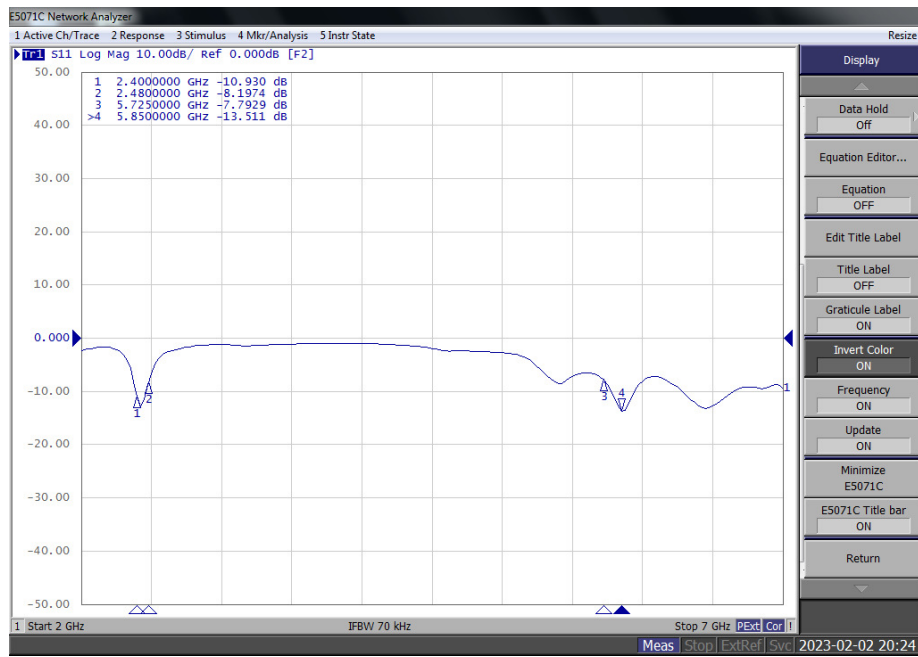
Ant0

Mark(GHz)	2.4	2.48	5.725	5.85
S11	-8.8	-7	-5	-5.2



Ant1

Mark(GHz)	2.4	2.48	5.725	5.85
S11	-10.9	-8.2	-7.8	-13.5

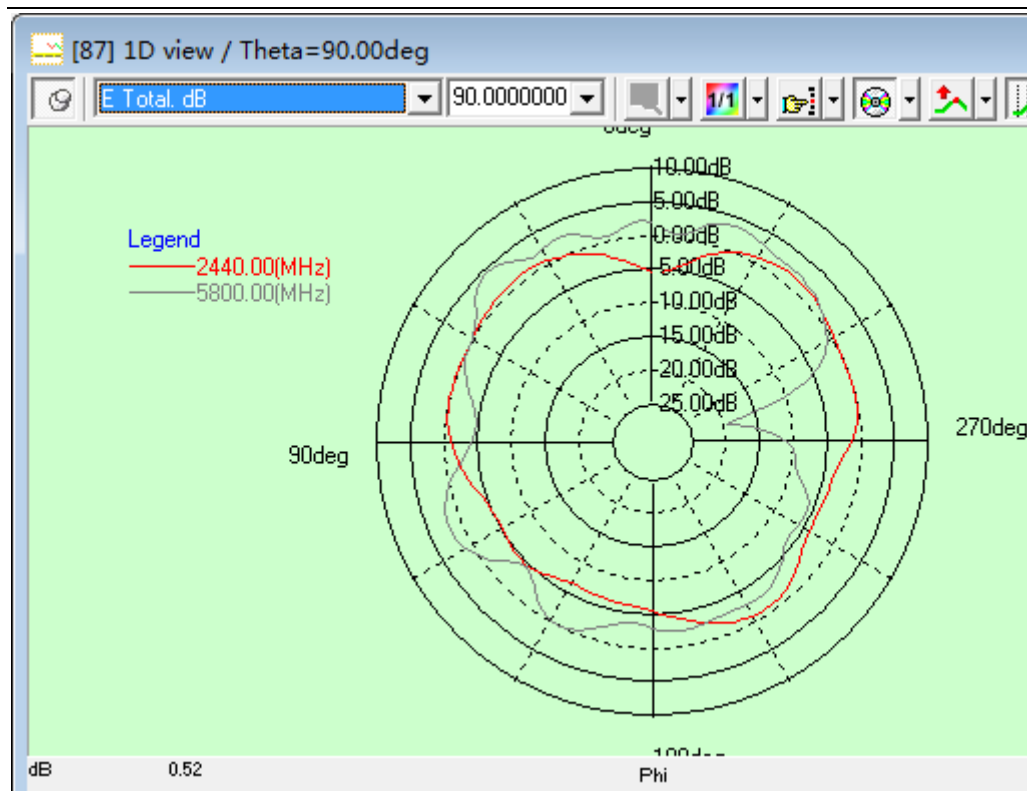


3、 Antenna Gain

3.1 wifi

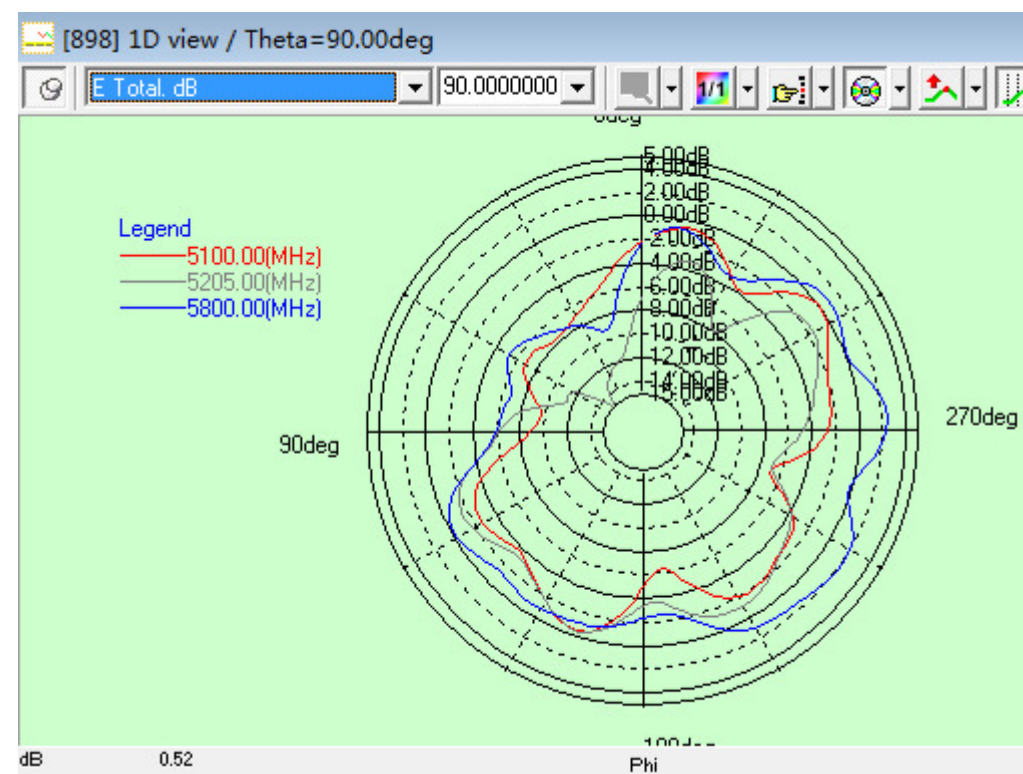
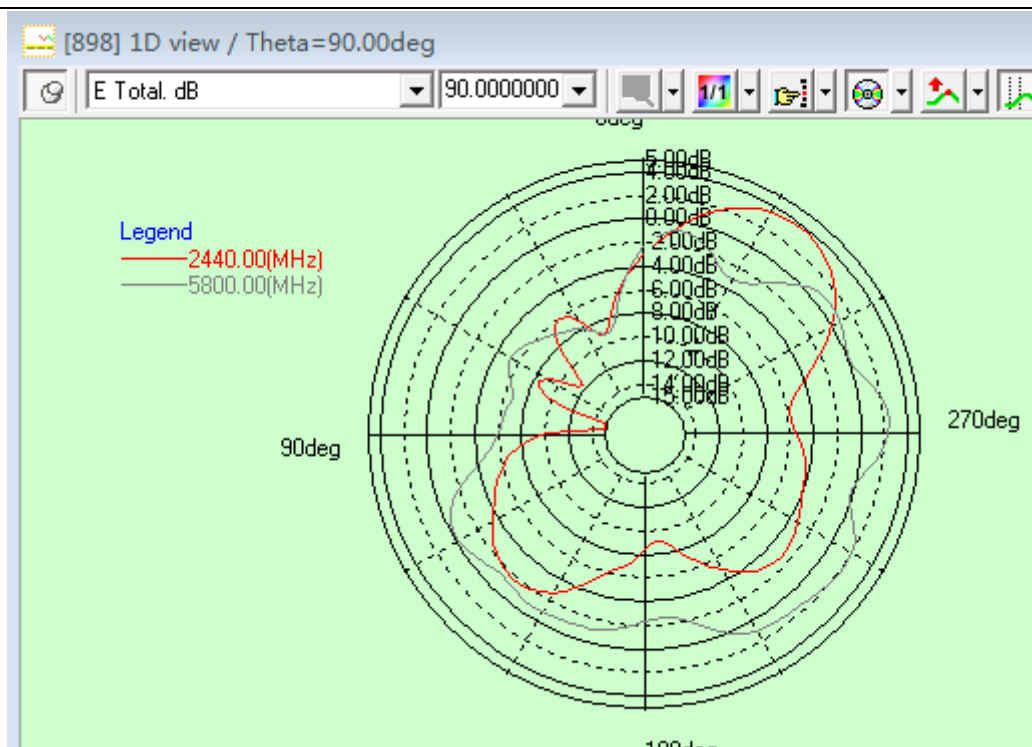
Ant0

Frequency	Efficiency	Gain. dB
2400MHz	48%	2.50
2420MHz	47%	2.50
2440MHz	45%	2.19
2460MHz	46%	2.29
2480MHz	46%	2.15
5160MHz	51%	4.00
5190MHz	52%	4.00
5205MHz	53%	3.93
5235MHz	50%	3.52
5250MHz	52%	3.58
5730MHz	63%	4.61
5760MHz	61%	4.64
5790MHz	69%	5.00
5800MHz	65%	4.29
5850MHz	67%	4.82



Ant1

Frequency	Efficiency	Gain. dB
2400MHz	53%	3.50
2440MHz	52%	3.50
2480MHz	48%	3.00
5205MHz	41%	0.89
5220MHz	42%	1.00
5730MHz	51%	3.48
5800MHz	52%	3.50
5850MHz	49%	3.18



4、 Structure drawing

5.1 WIFI antenna

Ant0



Ant1



Name of the antenna manufacturer: Shenzhen ZTX Communication Technology Co., LTD.

Address of the antenna manufacturer: No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province

Website of the antenna manufacturer: www.ztxun.com