

DJI Antenna Datasheet

RC151 antenna

2023-02-15



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Dave.li	2023.02.15

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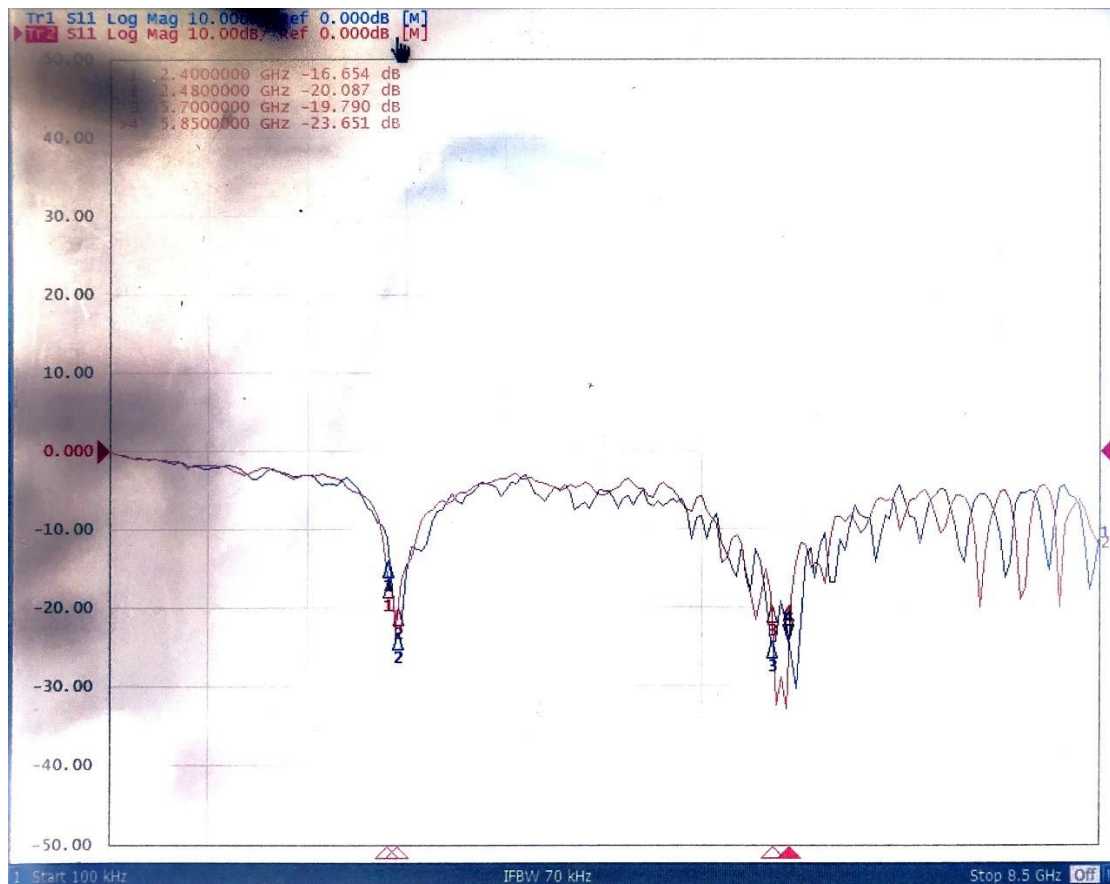
1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RC151 Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz 5.725~5.875GHz		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	Ant0&Ant1 3dBi@2.4~2.483GHz 1.5dBi@5.15~5.25GHz 4dBi@5.725~5.875GHz		
7	Efficiency	≥45%		
8	VSWR	≤2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Integral Antenna		
13	Manufacturer	Shenzhen ZTX Communication Technology Co., LTD. Kunshan Innowave Communication Technology Co., Ltd.		



14	Manufacturer Address:	No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province Workshop No.5, No. 1689, Zizhu Road, Yushan Town, Kunshan City		
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2、 Antenna efficiency/Return Loss/VSWR



Frequency	gain(dBi)R	efficiency(%)R	gain (dBi) L	efficiency (%) L
2400MHz	2.05	65%	2.05	65%
2420MHz	3.00	67%	3.00	67%
2440MHz	2.46	68%	2.46	68%
2450MHz	2.25	68%	2.25	68%
2460MHz	2.12	68%	2.12	68%
2480MHz	2.00	66%	2.00	66%
5150MHz	1.22	49%	1.22	49%

5200MHz	1.50	54%	1.50	54%
5700MHz	3.52	59%	3.52	59%
5750MHz	3.47	59%	3.47	59%
5800MHz	3.78	61%	3.78	61%
5850MHz	4.00	63%	4.00	63%

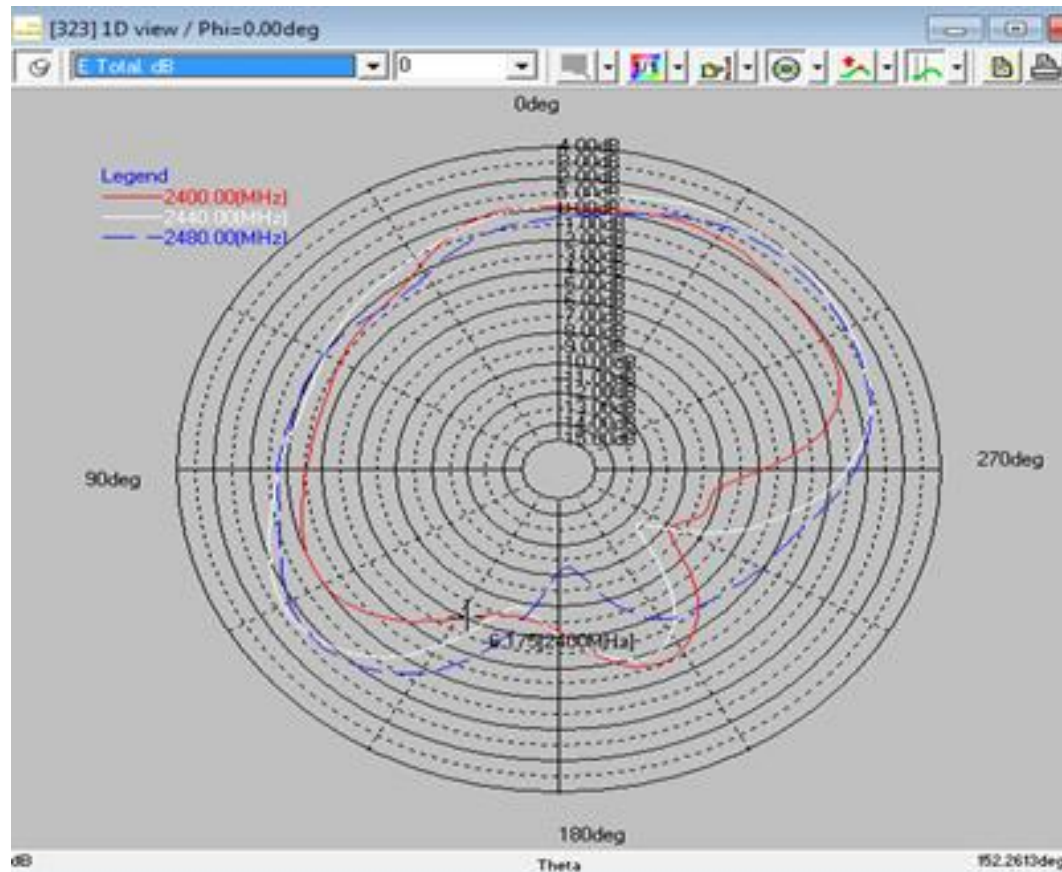
3、 Radiation Pattern

Test lab: Satimo SG24

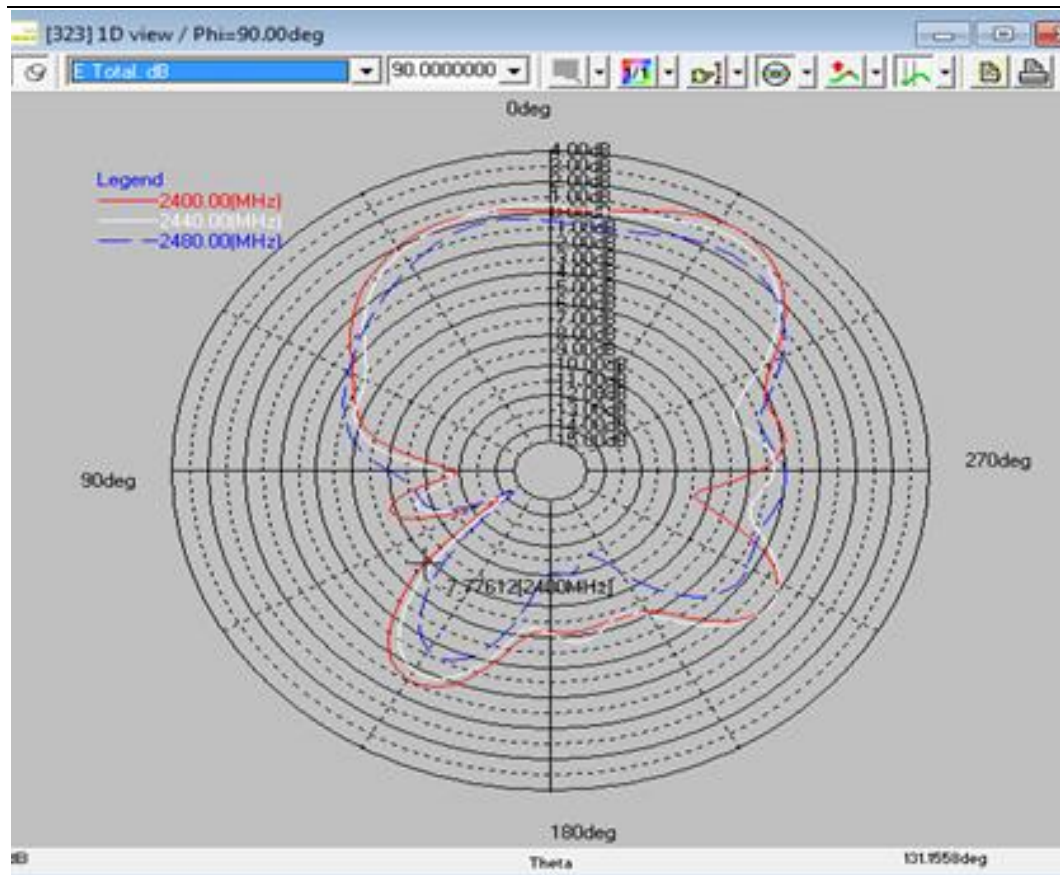
Test date: 2023/02/10

3.1 2.4G radiation pattern

Phi=0

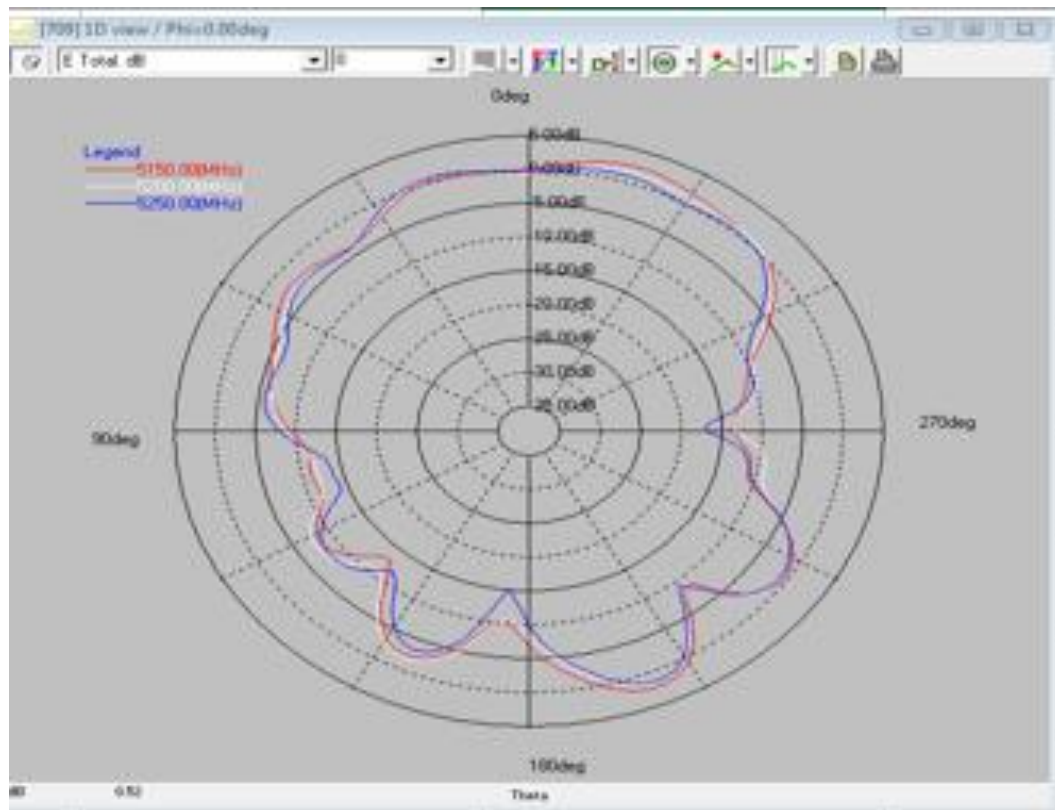


Phi=90

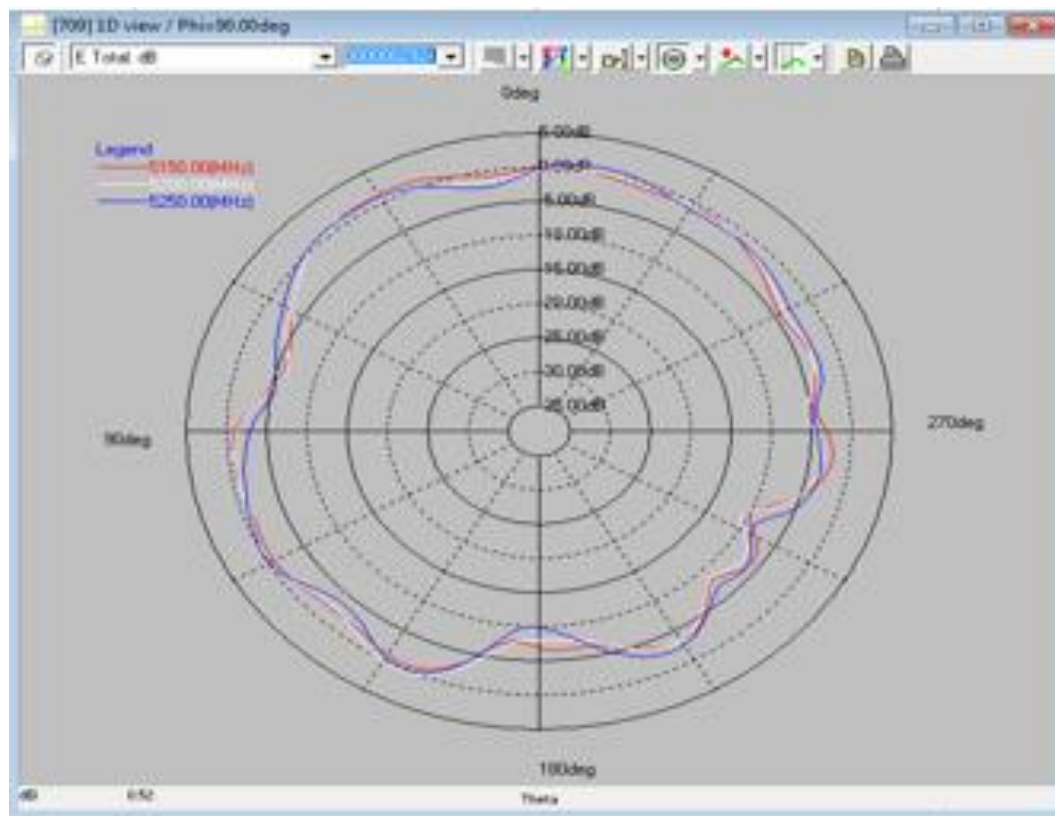


3.2 5.2G radiation pattern

Phi=0

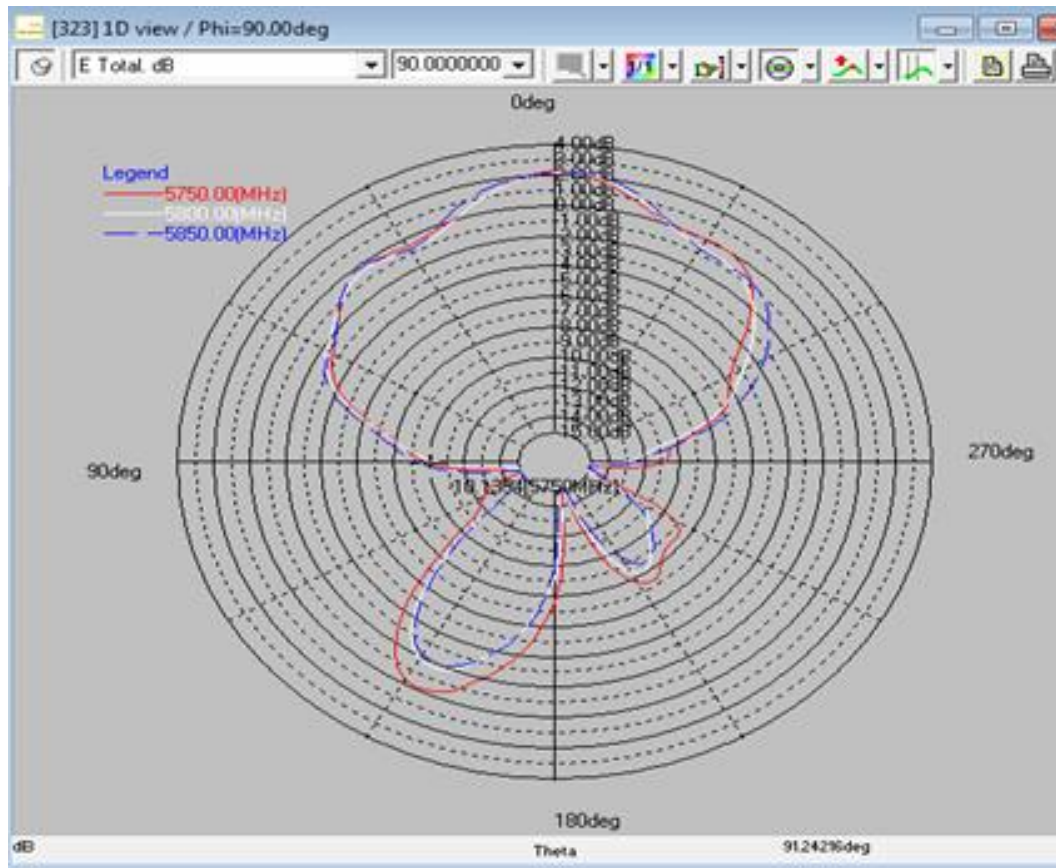


Phi=90

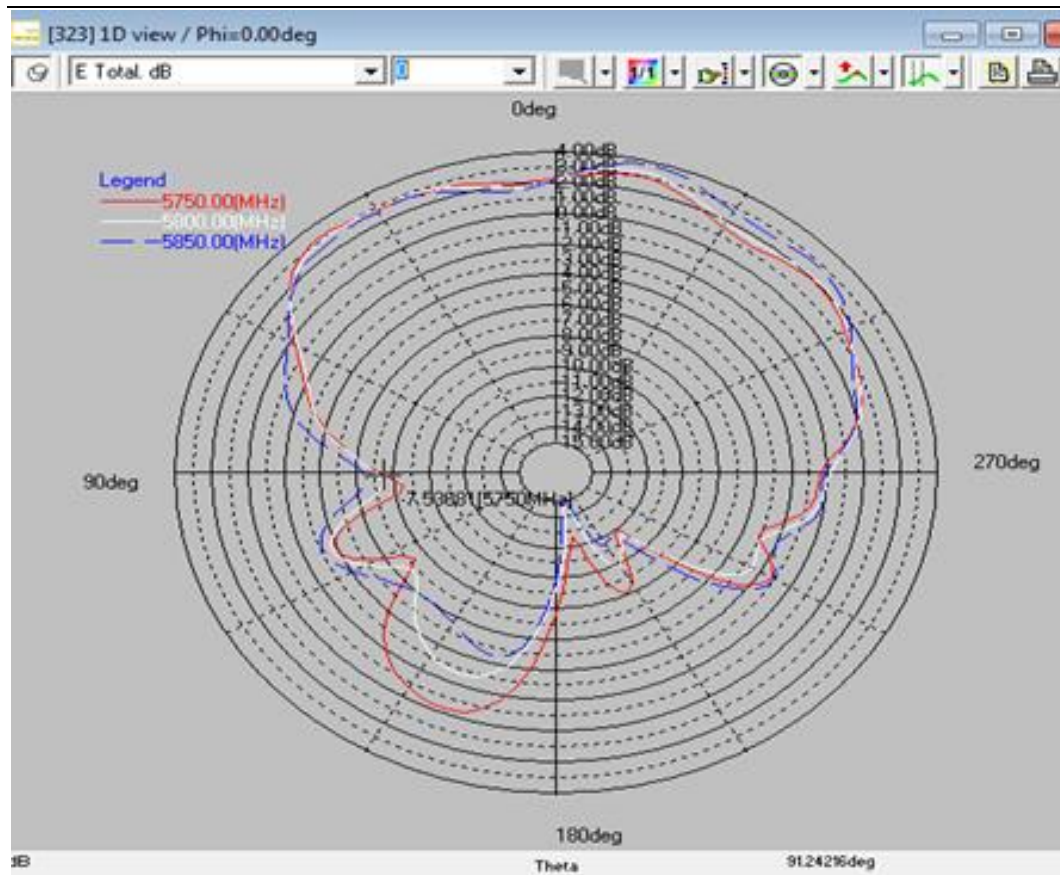


3.3 5.8G radiation pattern

Phi=0



Phi=90



4、 Structure drawing

antenna 2D

