

DJI Antenna Datasheet

DMR03 ANTENNA



DJI Antenna Datasheet

1. Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name	DMR03 Ant	Only sale for DJI
2	Brand	DJI	
3	Operation Frequency	2.4~2.483GHz; 5.15~5.35GHz; 5.47~5.725GHz; 5.725~5.85GHz	
4	Connector Type	None	
5	Impedance	50ohm	
6	Gain	Antenna0: 1.23dBi@2.4~2.483GHz 0.29dBi@5.15~5.35GHz 1.02dBi@5.47~5.725GHz 1.07dBi@5.725~5.85GHz Antenna1: -0.08dBi@2.4~2.483GHz -0.58dBi@5.15~5.25GHz 0.01dBi@5.25~5.35GHz 0.57dBi@5.47~5.725GHz 0.11dBi@5.725~5.85GHz	
7	Efficiency	$\geq 30\%$	
8	VSWR	≤ 3	
9	Polarization type	Linear	
10	3dB Beam width	Omnidirectional	



11	Weight	1g	
12	Antenna type	IFA	
13	Manufacture	Kunshan Innnowave Communication Technology Co., Ltd.	

2. Antenna efficiency and gain

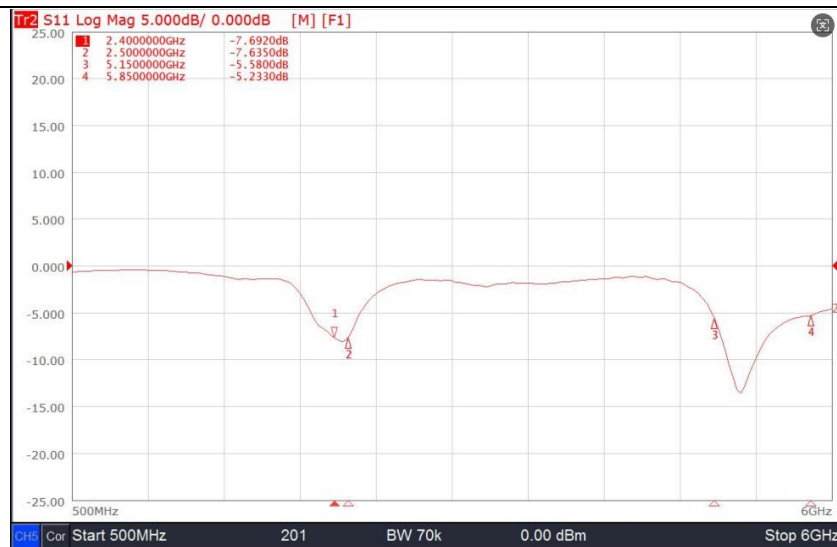
	Antenna0		Antenna1	
Frequency	Efficiency(%)	Gain . dB	Efficiency(%)	Gain . dB
2400MHz	34.49	1.01	16.57	-1.23
2410MHz	33.35	0.96	17.26	-1.15
2420MHz	35.31	1.19	17.78	-1
2440MHz	36.31	1.23	18.83	-0.69
2450MHz	34.89	1.18	20.19	-0.39
2460MHz	32.54	1.01	21.06	-0.18
2470MHz	32.3	1.01	21.32	-0.08
2480MHz	33.87	1.15	21.91	-0.13
5150MHz	28.16	0.24	27.98	-0.61
5200MHz	28.24	-0.08	26.87	-1.04
5250MHz	32.39	0.29	30.03	-0.58
5300MHz	34.44	0.19	37.97	0.01
5350MHz	32.88	-0.48	32.71	-0.71
5400MHz	30.66	0.54	38.34	0.24



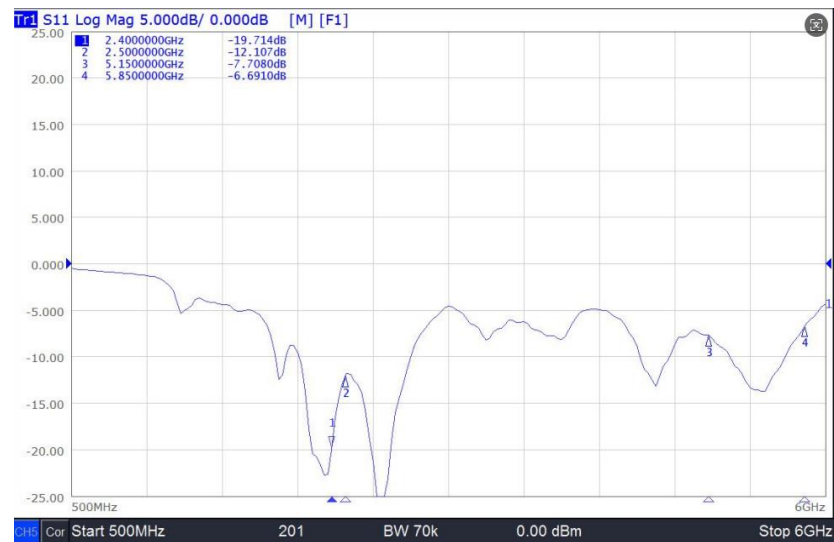
5450MHz	36.07	0.21	33.83	-0.14
5500MHz	33.03	0.95	40.6	0.57
5550MHz	39.79	0.8	37.04	-0.02
5600MHz	41.03	0.84	40.1	0.46
5650MHz	32.48	-0.19	32.26	-0.27
5700MHz	35.37	0.13	35.56	0.42
5725MHz	26.45	1.02	32.73	0.11
5750MHz	27.49	1.07	27.7	-0.34
5775MHz	25.13	0.85	25.31	-1
5800MHz	24.4	0.89	25.5	-0.83
5825MHz	24.54	0.93	23.43	-1.15
5850MHz	23.18	0.72	21.17	-1.57

3. Antenna return loss/VSWR

Antenna 0



Antenna1

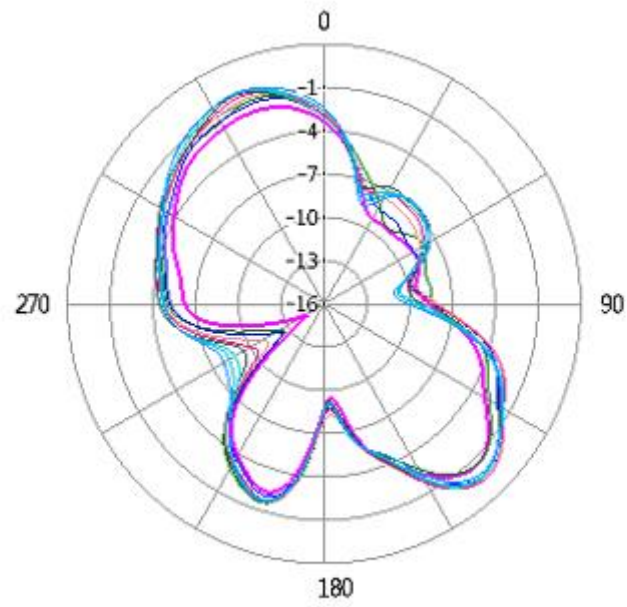


4. Radiation Pattern

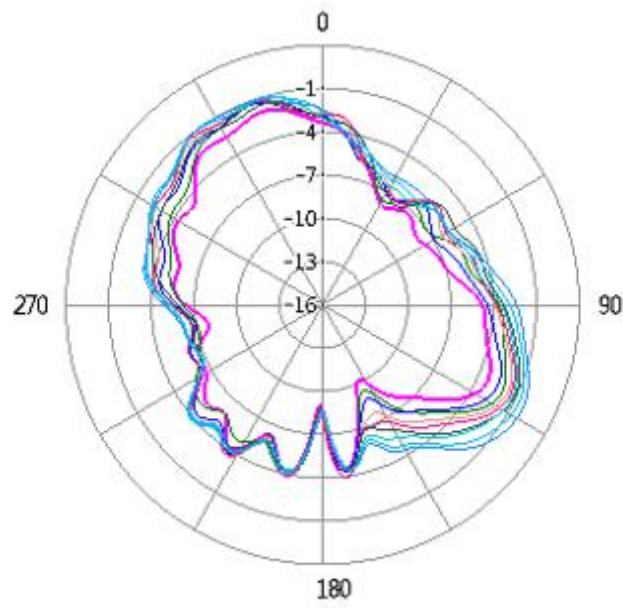
4.1 Antenna0

4.1.1 Wi-Fi antenna 2.4G radiation pattern

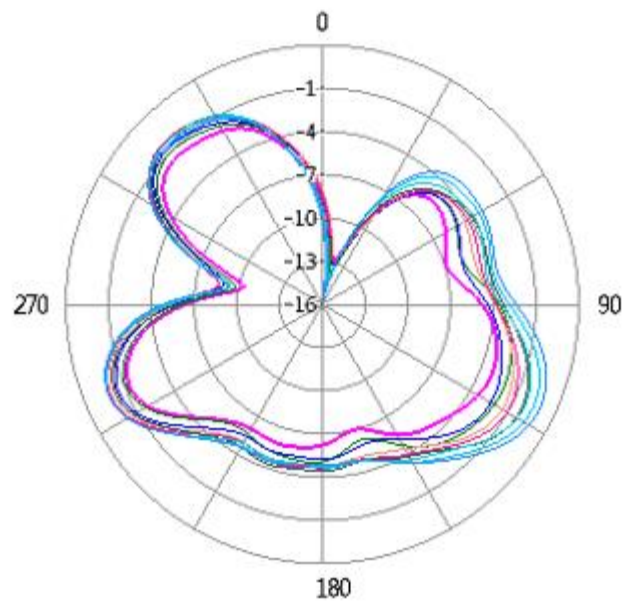
Phi=0



Phi=90

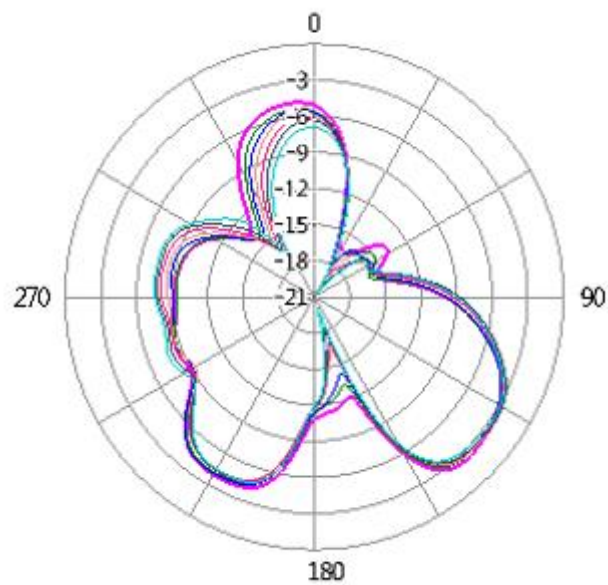


theta=90

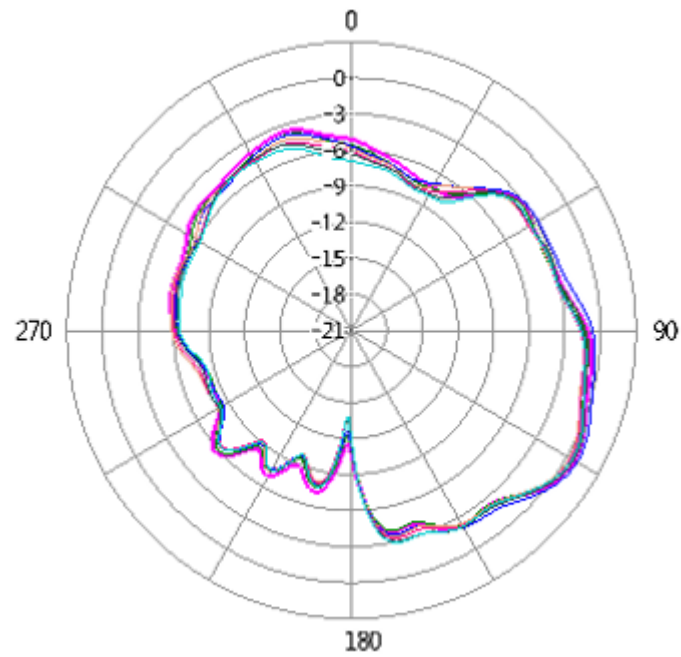


4.2.2 Wi-Fi antenna 5G radiation pattern

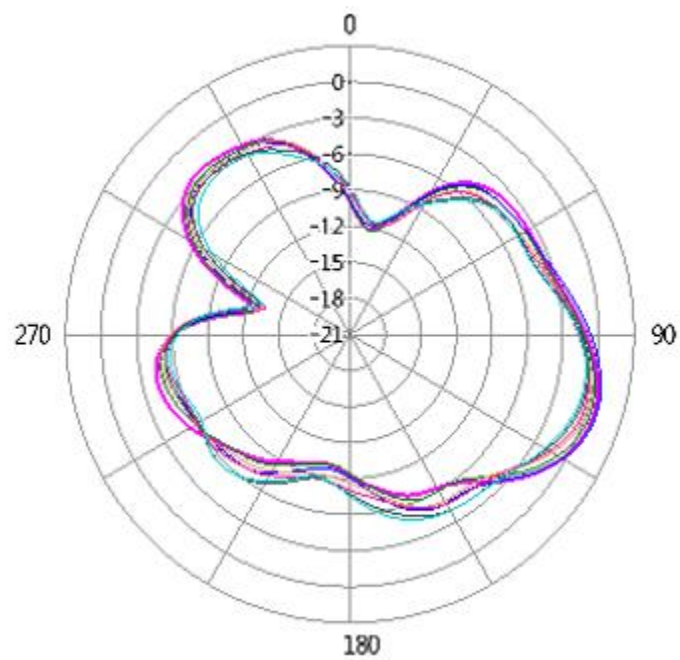
Phi=0



Phi=90



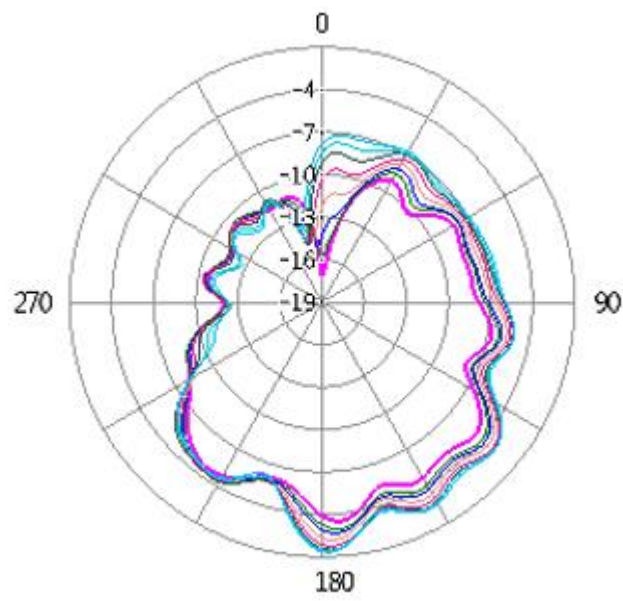
$\theta=90$



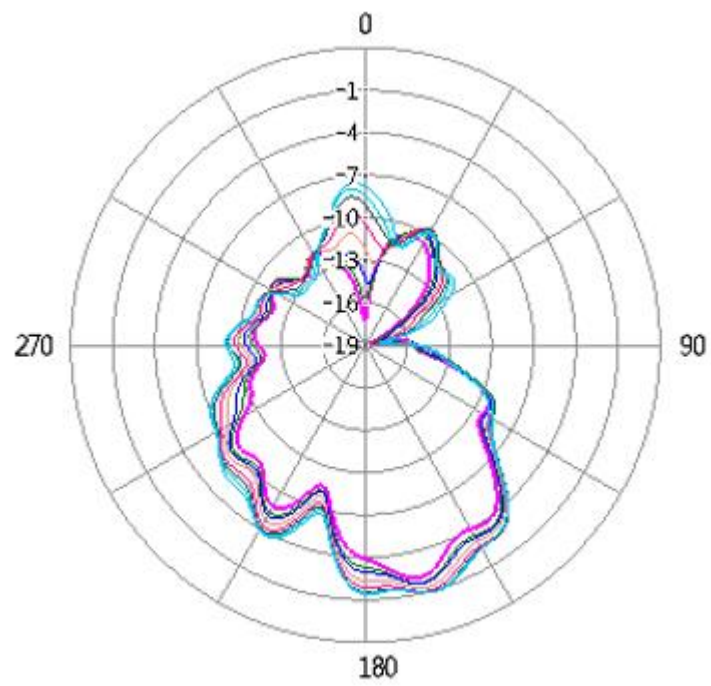
4.2 Antenna1

4.2.1 Wi-Fi antenna 2.4G radiation pattern

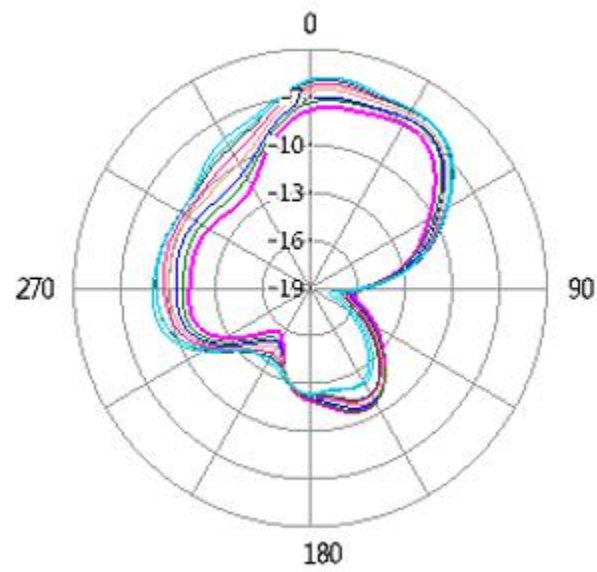
$\Phi=0$



$\Phi = 90$

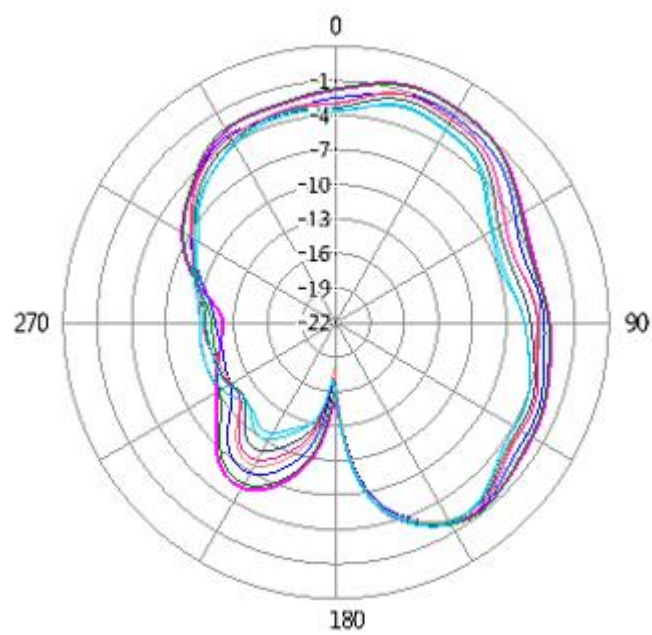


$\theta = 90$

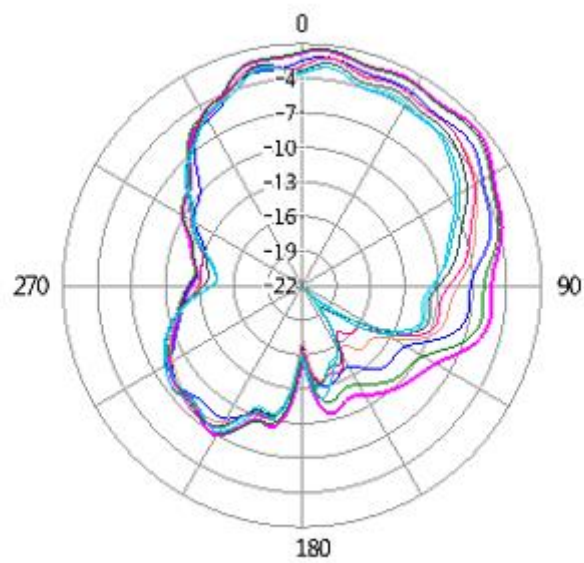


4.3.2 Antenna 5G radiation pattern

$\Phi=0$



$\Phi=90$



theta=90

