

DJI Antenna Datasheet

WA150 antenna

2024-09-18



Revision history

Version	Change notes	Modifier	Date
V0.1	First draft.	Freeman.D eng	2024.09.02

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	WA150 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	Efficiency	$\geq 50\%$		
7	VSWR	≤ 2		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Weight	1g		
11	Antenna type	Dipole		
12	Gain	2.4G/5.1G: 1dBi; 5/8G: 1.5dBi		
13	Manufacturer	Kunshan Innwave Communication Technology Co., Ltd. Building H, No. 55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province, China		

2、 Antenna Gain

3.1 SDR/WIFI antenna 1

Frequency	Efficiency	Gain(dBi)
2400MHz	62%	0.96179
2420MHz	58%	0.95465



2450MHz	59%	0.95479
2470MHz	56%	0.90767

Frequency	Efficiency	Gain(dBi)
5150MHz	57%	0.92303
5200MHz	50%	0.94971
5250MHz	53%	0.95188
Frequency	Efficiency	Gain(dBi)
5725MHz	60%	1.48728
5775MHz	61%	1.46493
5800MHz	61%	1.44863
5850MHz	56%	1.41608

3.2 SDR antenna 0

Frequency	Efficiency	Gain(dBi)
2400MHz	66%	0.92728
2420MHz	58%	0.95077
2450MHz	53%	0.92628
2470MHz	50%	0.98723
Frequency	Efficiency	Gain(dBi)
5150MHz	57%	0.97663
5200MHz	48%	0.98486
5250MHz	50%	0.93423

Frequency	Efficiency	Gain(dBi)
5725MHz	59%	1.48620
5775MHz	60%	1.48726
5800MHz	59%	1.48849
5850MHz	53%	1.39856

3.3 SDR/WIFI/BT antenna 3

Frequency	Efficiency	Gain(dBi)
2400MHz	55%	0.93796
2420MHz	50%	0.92015



2450MHz	46%	0.94461
2470MHz	43%	0.98573
Frequency	Efficiency	Gain(dBi)
5150MHz	34%	0.96085
5200MHz	36%	0.86751
5250MHz	44%	0.85989

Frequency	Efficiency	Gain(dBi)
5725MHz	51%	1.42310
5775MHz	56%	1.14226
5800MHz	58%	1.37016
5850MHz	56%	1.14408

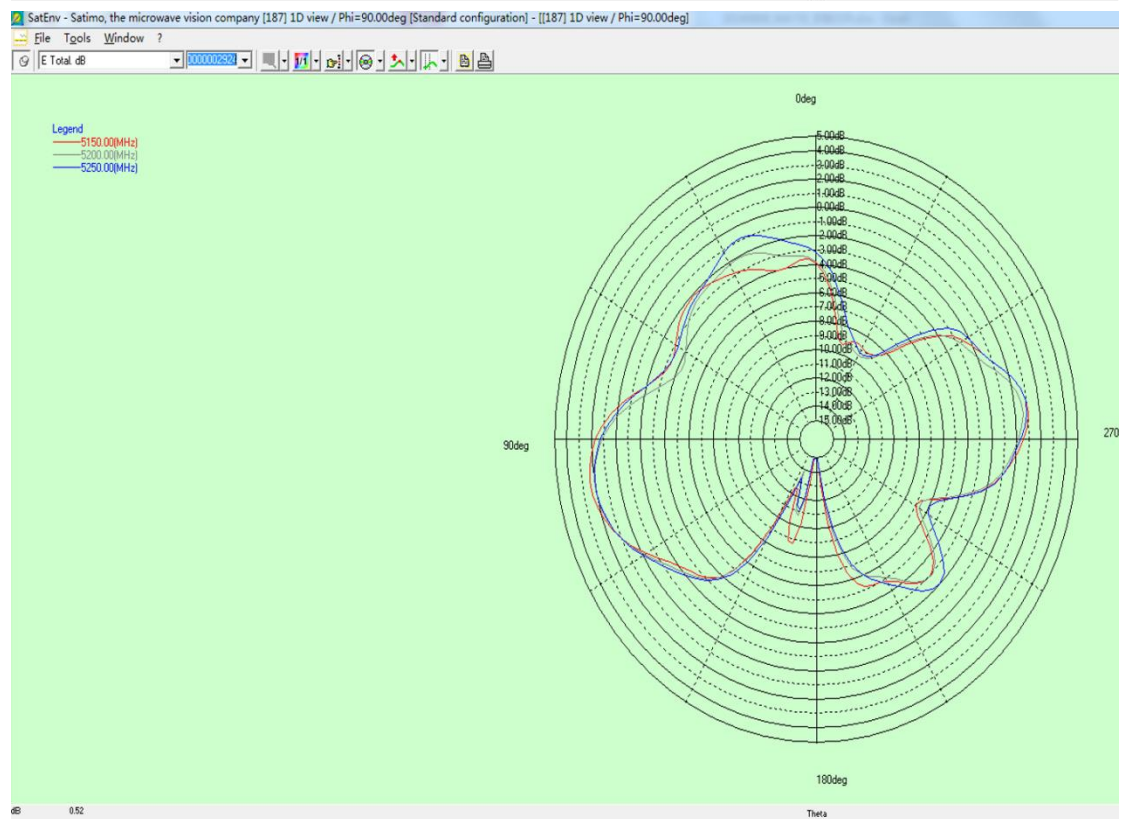
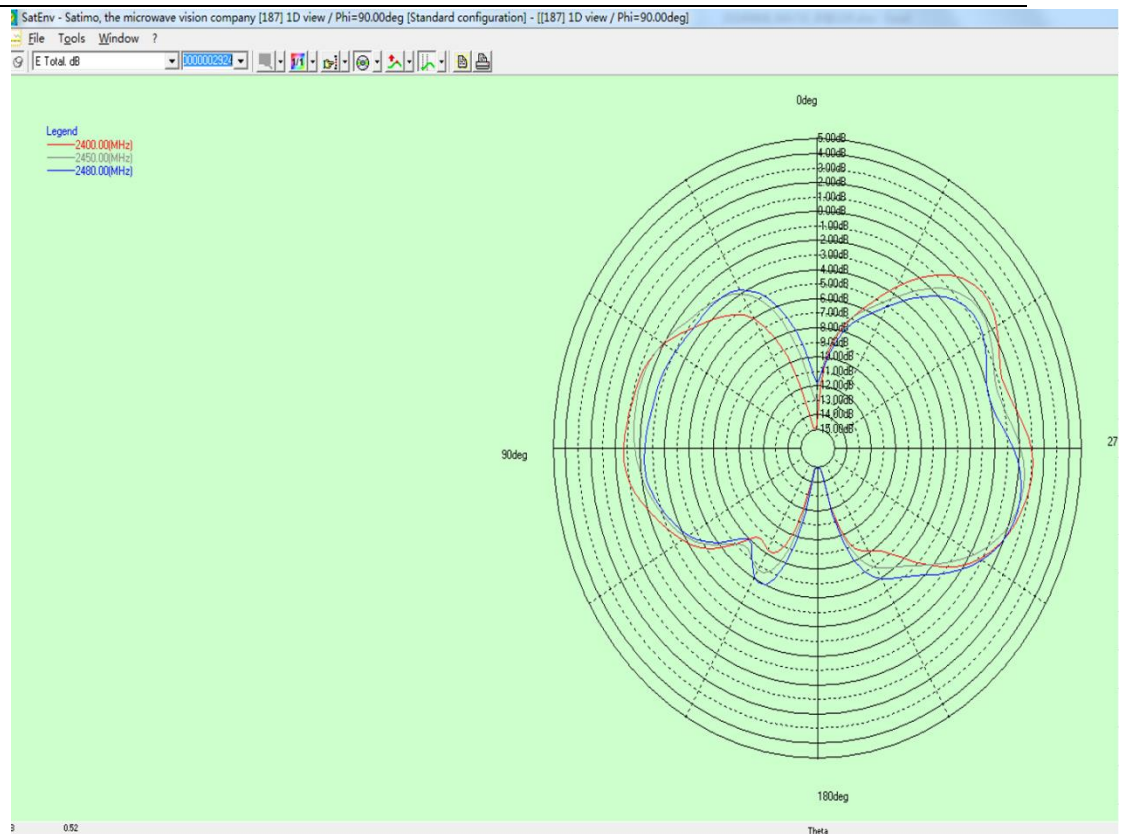
3.4 SDR antenna 2

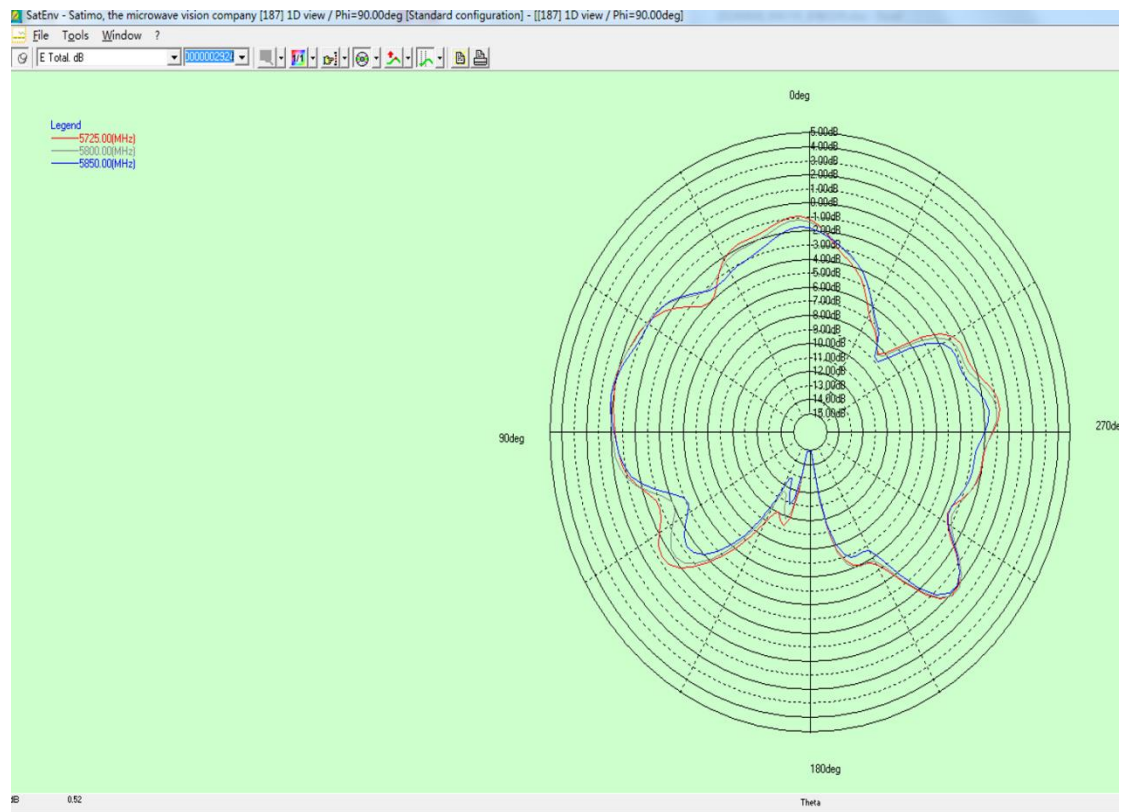
Frequency	Efficiency	Gain(dBi)
2400MHz	45%	0.94518
2420MHz	56%	0.96221
2450MHz	49%	0.99034
2470MHz	46%	0.89381
Frequency	Efficiency	Gain(dBi)
5150MHz	36%	0.98272
5200MHz	37%	0.95104
5250MHz	36%	0.6971

Frequency	Efficiency	Gain(dBi)
5725MHz	41%	1.43682
5775MHz	47%	1.34618
5800MHz	50%	1.31086
5850MHz	49%	1.47647

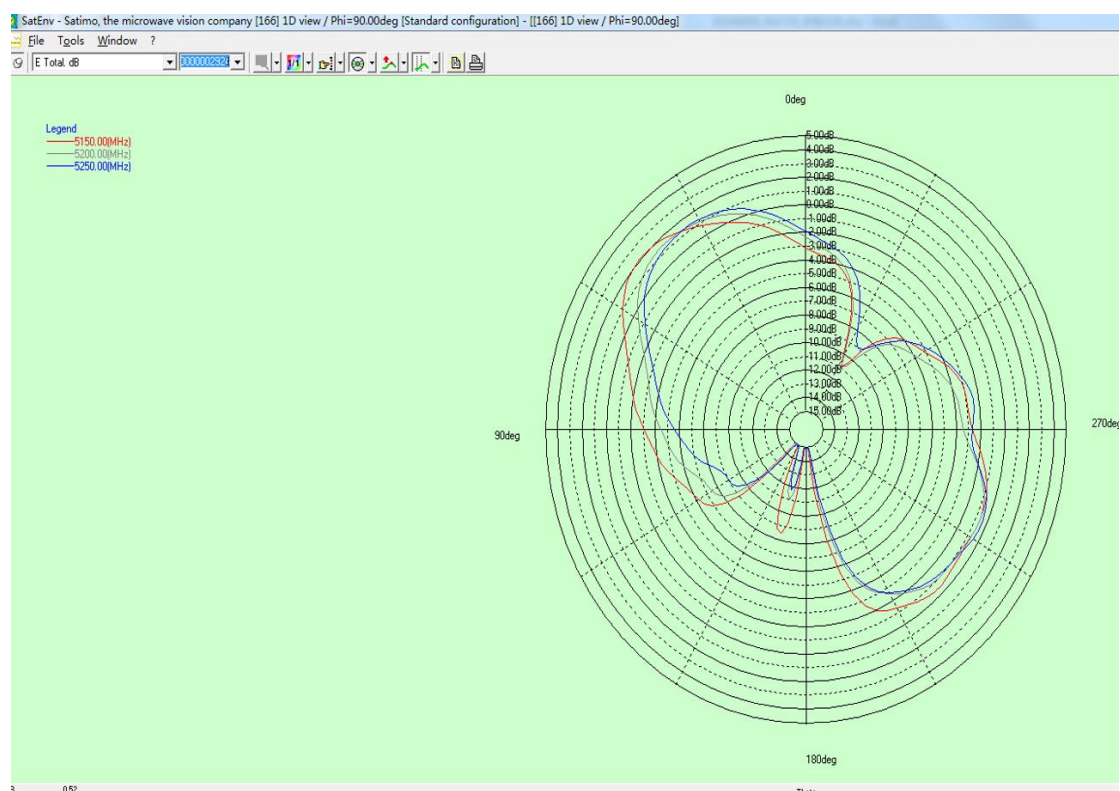
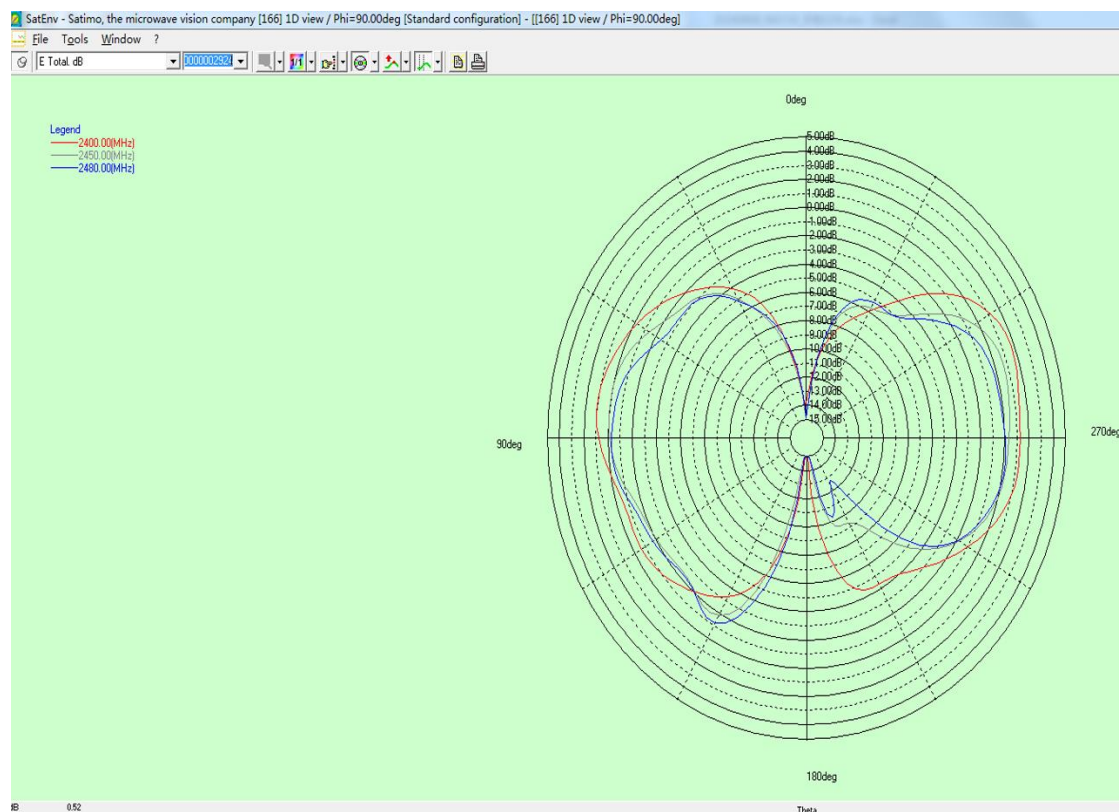
3、 Radiation Pattern 4.1

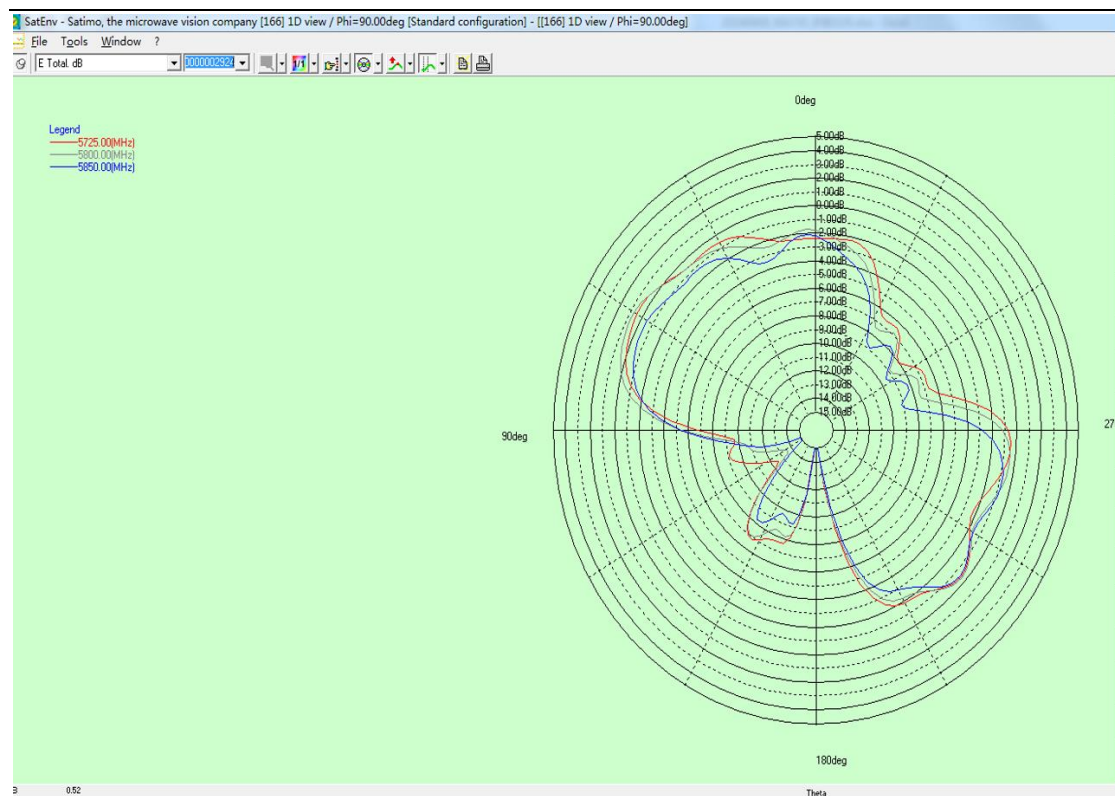
SDR/WIFI antenna 1



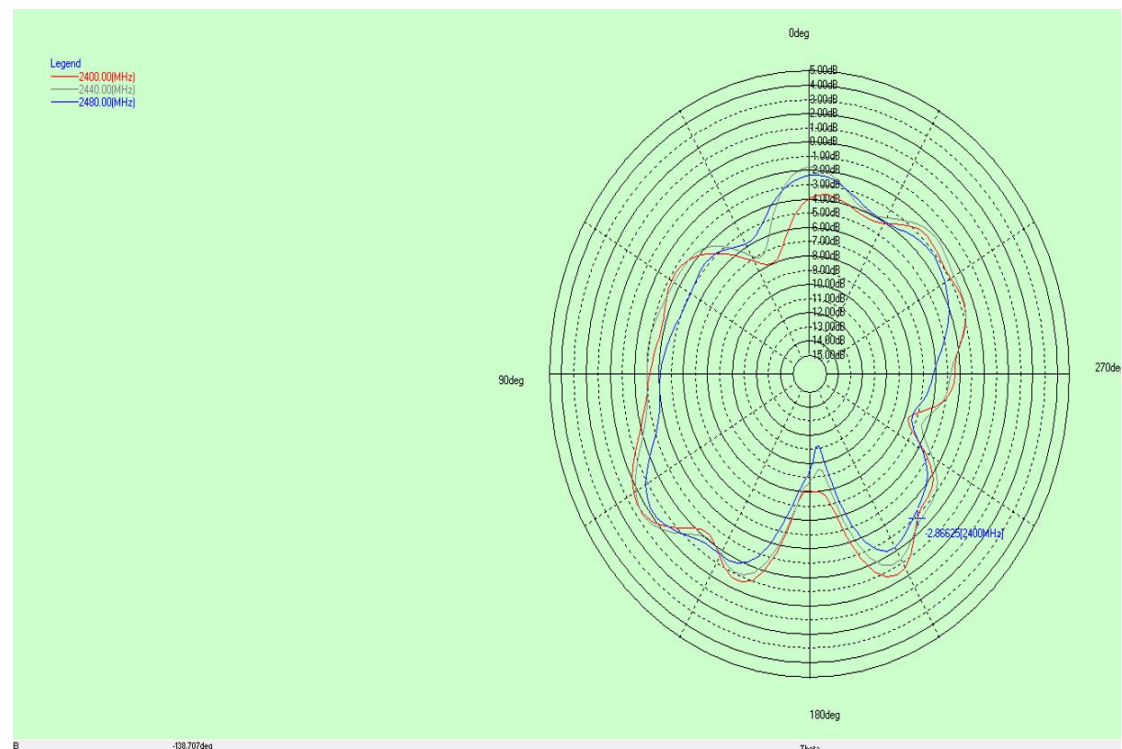


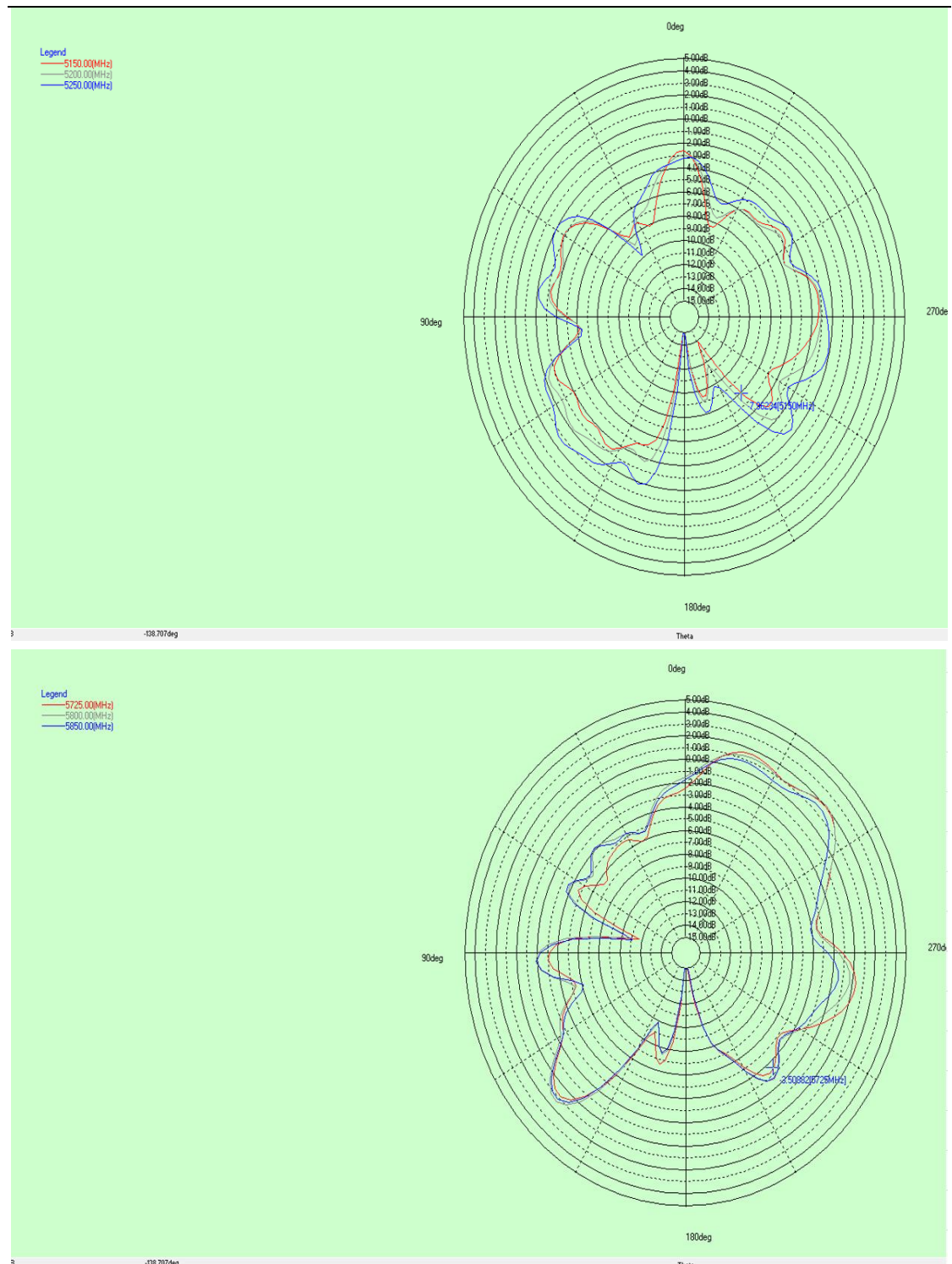
4.2 SDR antenna 0



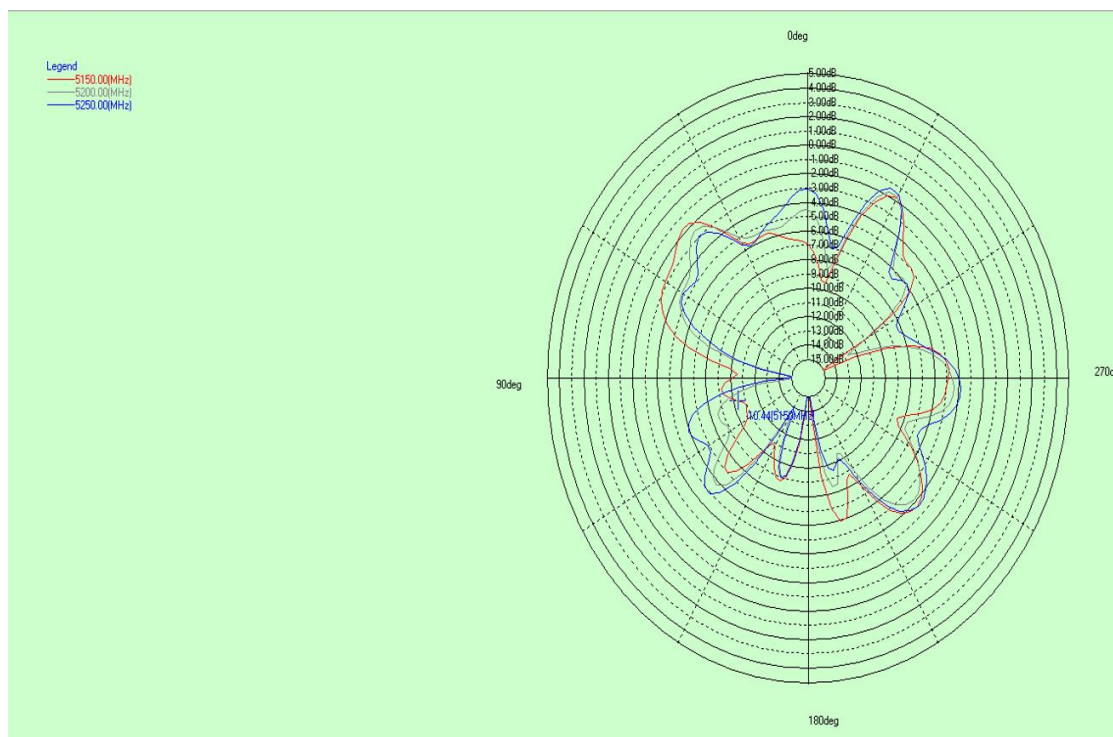
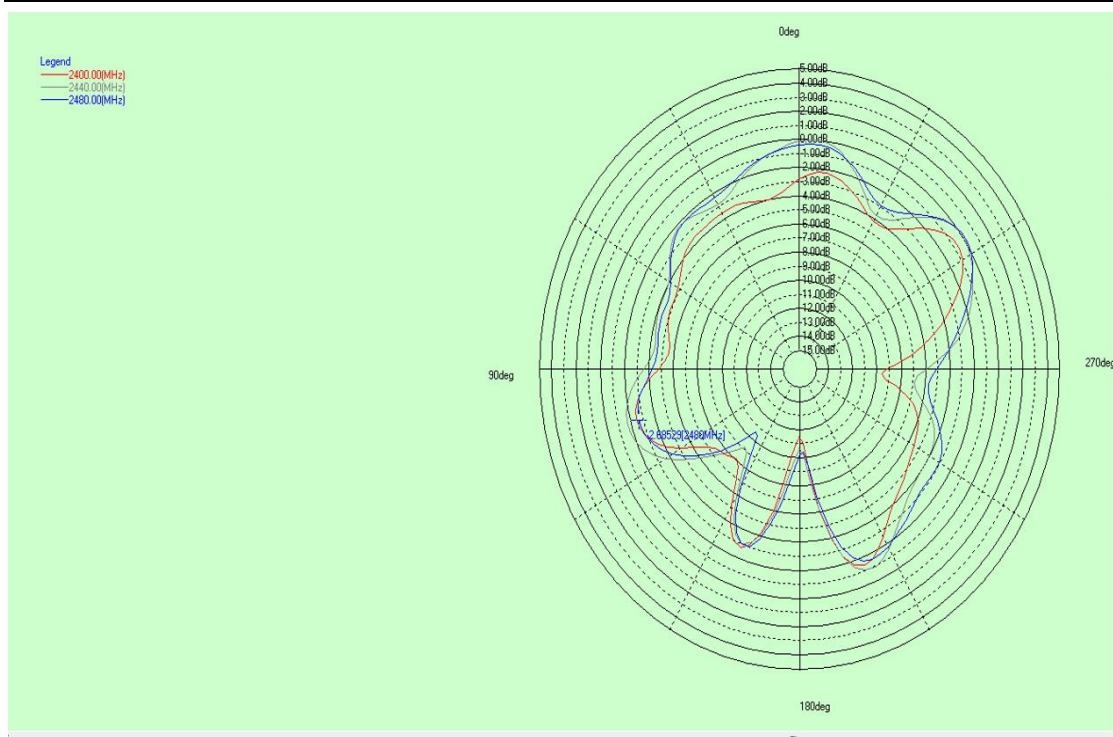


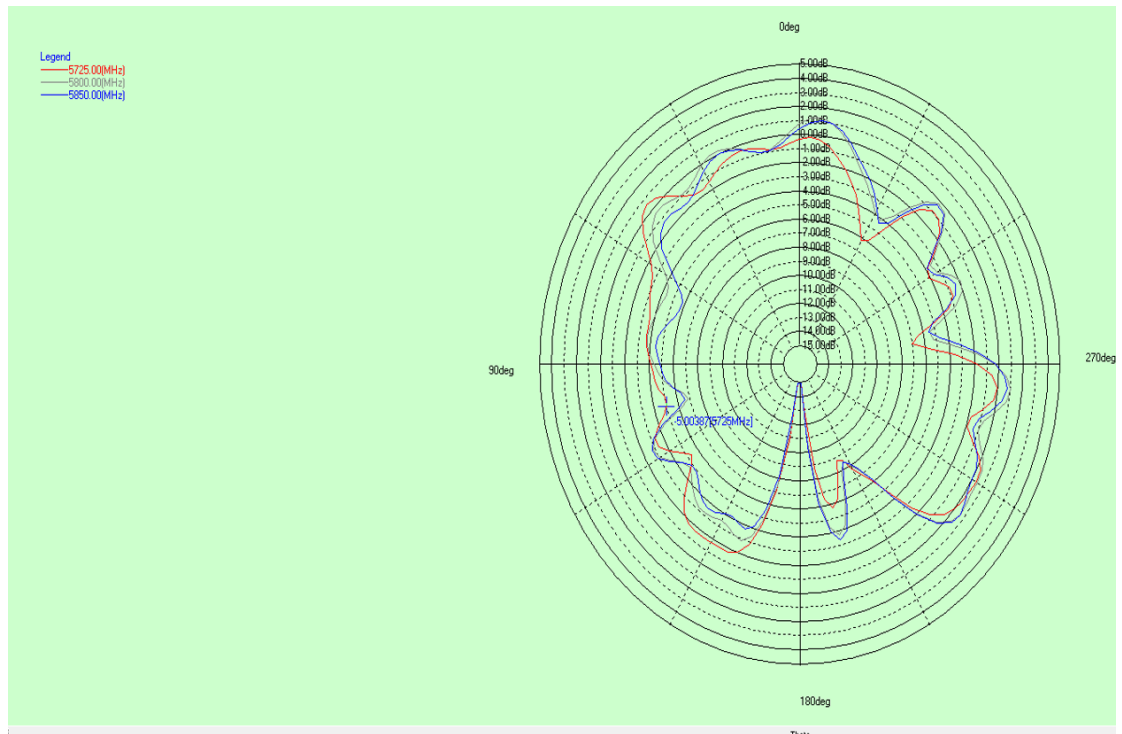
4.3 SDR/WIFI/BT antenna 3





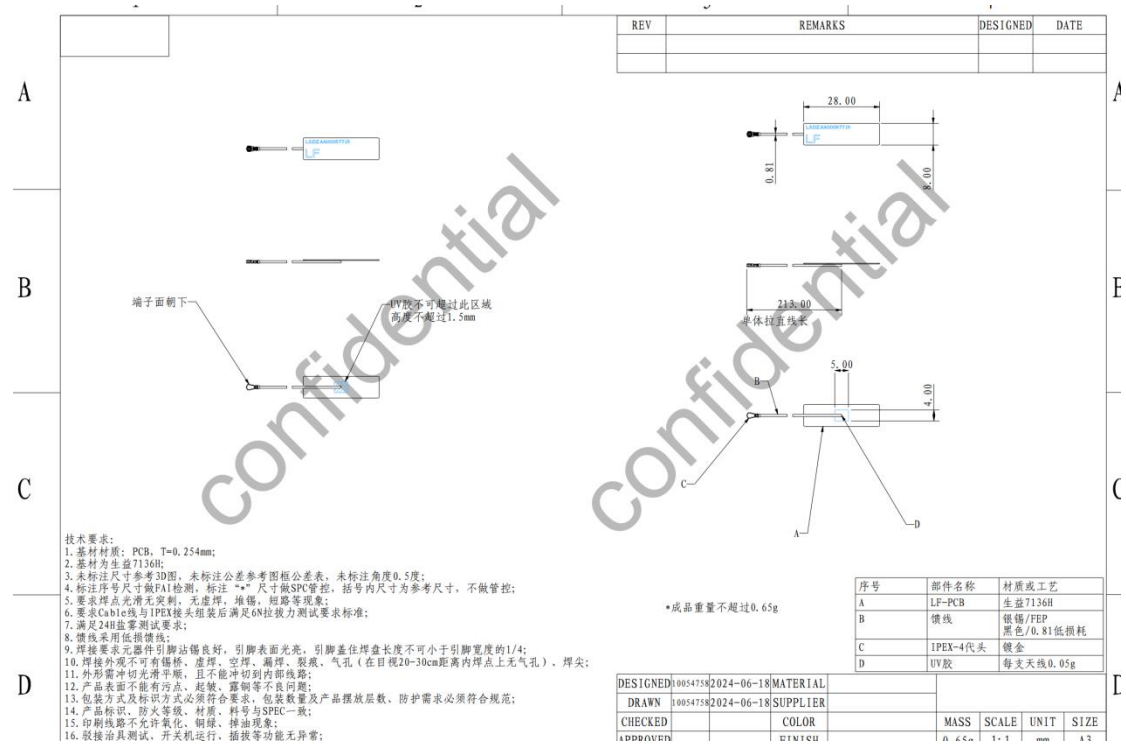
4.4 SDR antenna 2





4、 Structure drawing

Antenna 0/1:





Antenna 2/3:

