

Wi-Fi antenna SPEC

Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name	DH2501 WiFi ANT	
2	Brand	NA	
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	Antenna1: 0.02dBi@2.4~2.483GHz 1.07dBi@5.15~5.25GHz 1.34dBi@5.725~5.85GHz Antenna2: -2.48dBi@2.4~2.483GHz -1.62dBi@5.15~5.25GHz 0.41dBi@5.725~5.85GHz	
7	Efficiency	$\geq 20\%$	
8	VSWR	≤ 3	
9	Polarization type	Linear	
10	3dB Beam width	$\geq 60\text{deg}$	
11	Weight	1g	
12	Antenna type	PCB antenna	
13	Manufacture	Kunshan Innwave Communication	

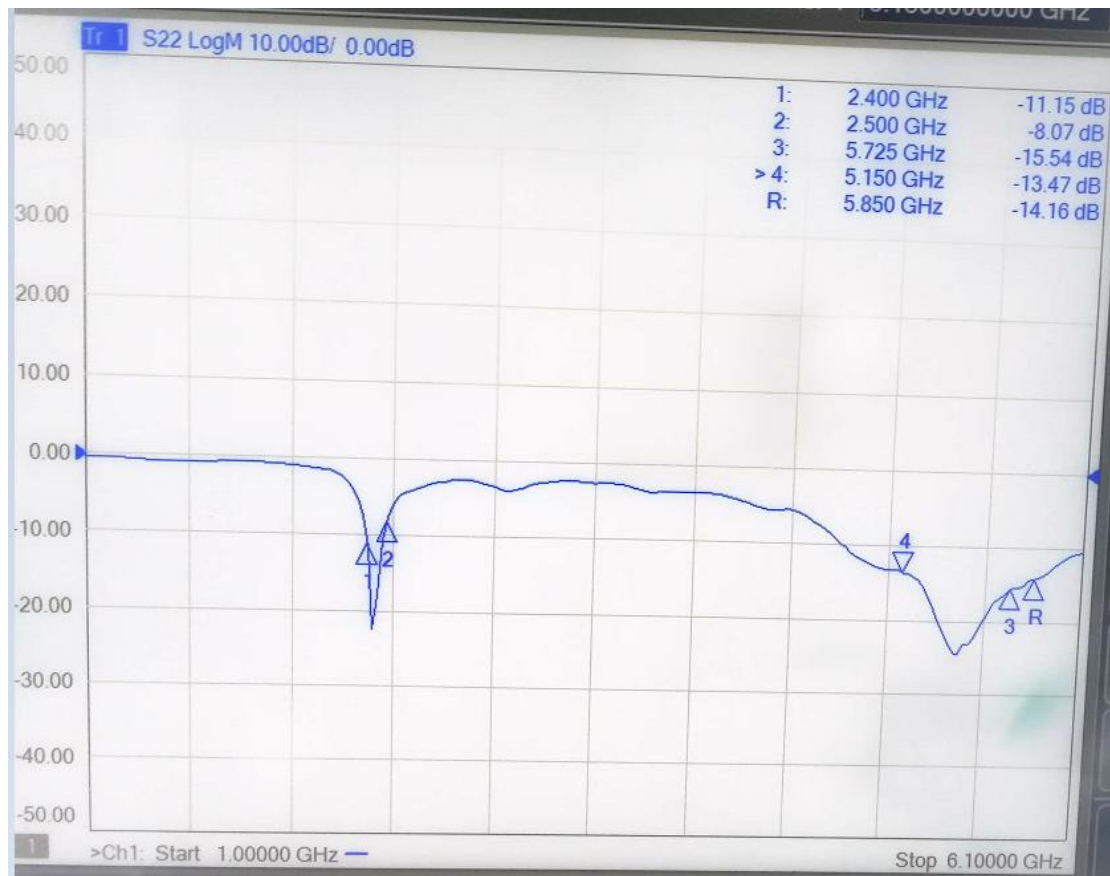
		Technology Co., Ltd.	
		INPAQ Technology (Suzhou) Co., Ltd	

Antenna efficiency and gain:

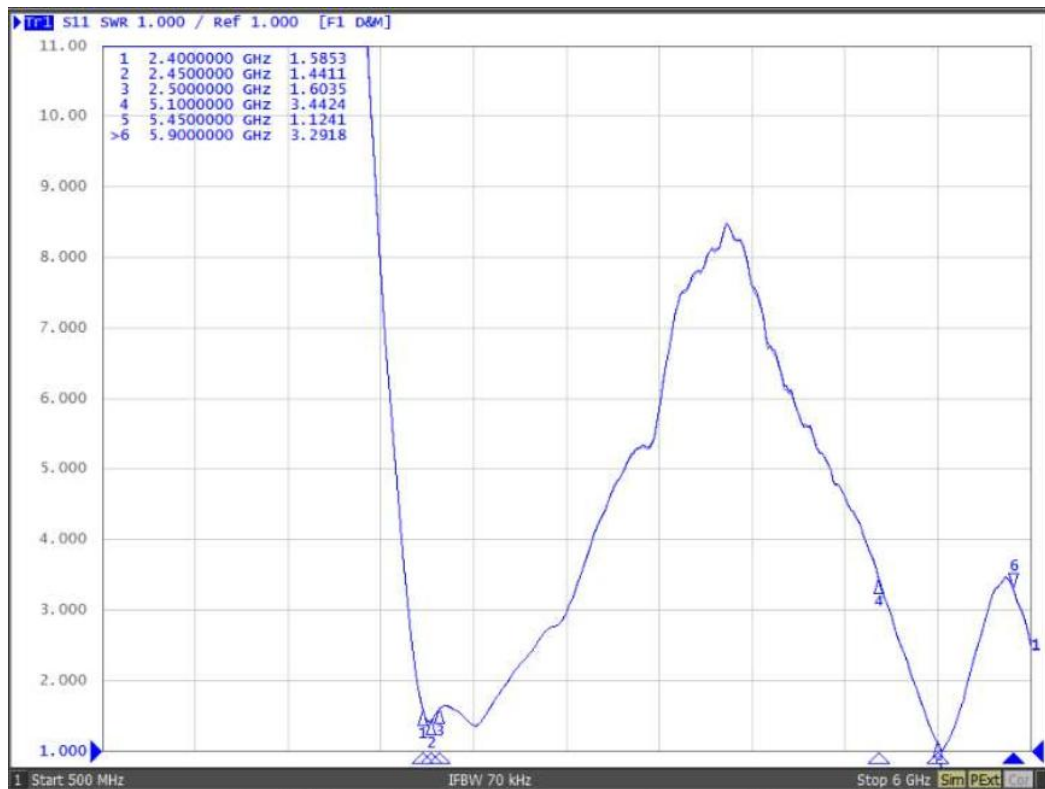
	Antenna1		Antenna2	
Frequency	Efficiency	Gain . dB	Efficiency	Gain . dB
2400MHz	28%	-0.53	13%	-2.57
2410MHz	26%	-0.77	12%	-2.89
2420MHz	25%	-0.7	12%	-2.96
2440MHz	27%	-0.56	13%	-2.99
2450MHz	25%	-0.16	14%	-3.37
2460MHz	25%	-0.72	12%	-2.72
2470MHz	27%	0.02	14%	-3.26
2480MHz	28%	-0.57	13%	-2.48
5150MHz	27%	1.08	15%	-1.9
5200MHz	27%	1.07	18%	-1.62
5250MHz	25%	1.07	21%	-1.67
5725MHz	28%	1.17	21%	-0.59
5750MHz	28%	1.19	20%	0.41
5775MHz	28%	1.34	20%	0.15
5800MHz	27%	1.32	19%	0.33
5825MHz	27%	1.33	17%	-0.01
5850MHz	25%	1.26	17%	-0.75

2、 Antenna Return Loss/VSWR

Antenna1



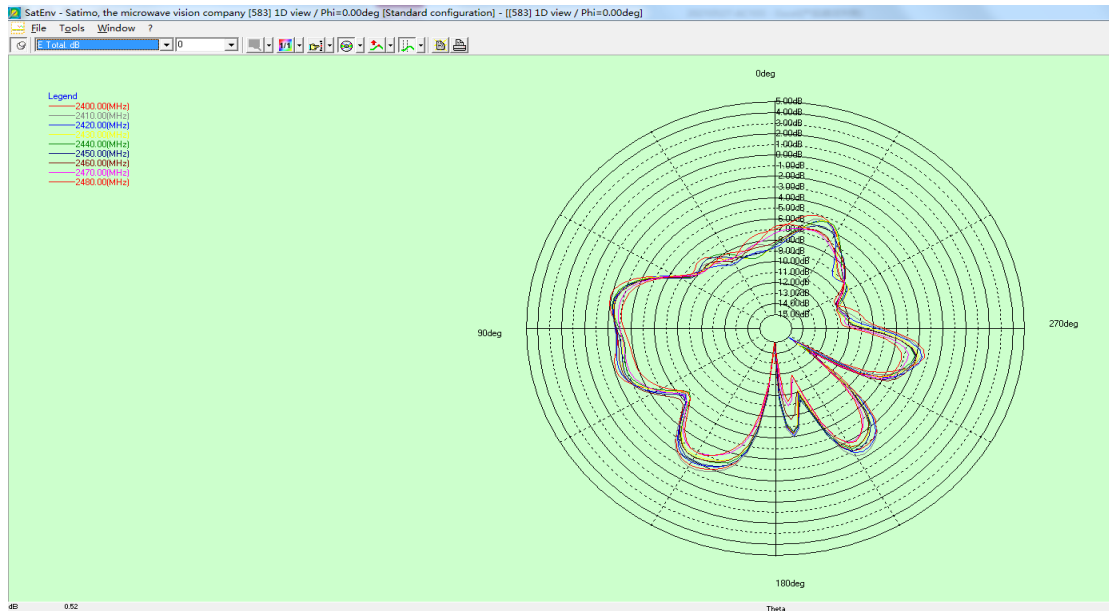
Antenna2:



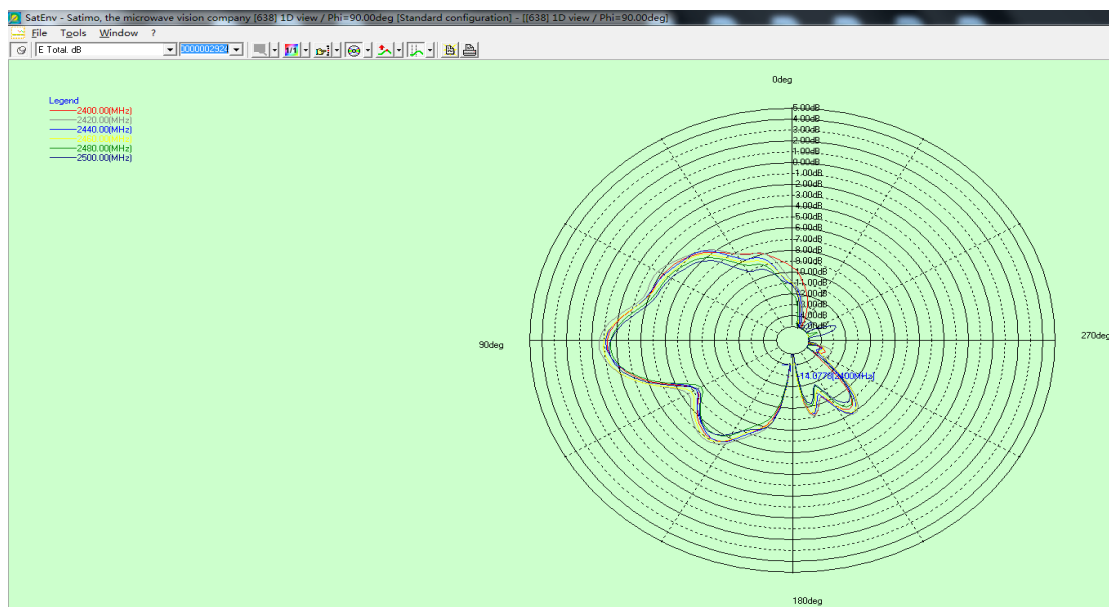
3、 Radiation Pattern

3.1 Wi-Fi antenna 2.4G radiation pattern

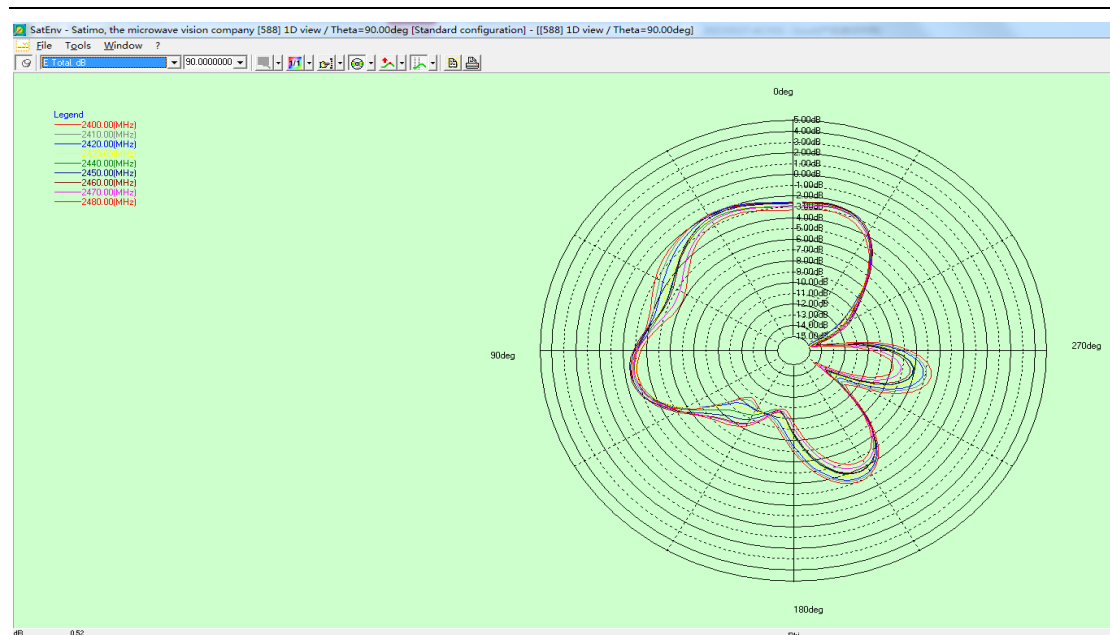
Phi=0



Phi=90

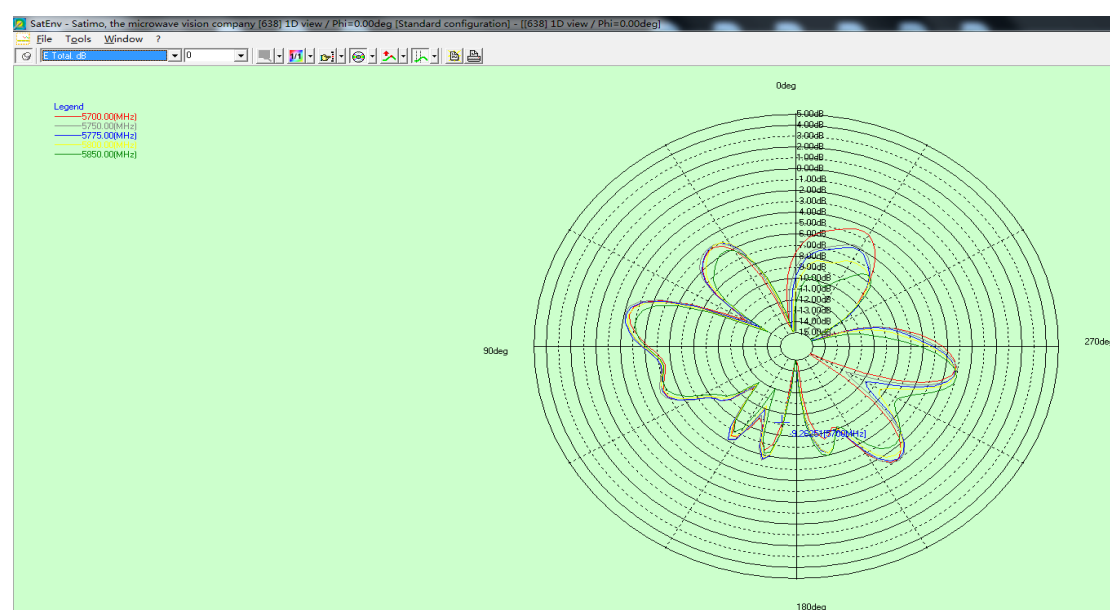


Theta=90

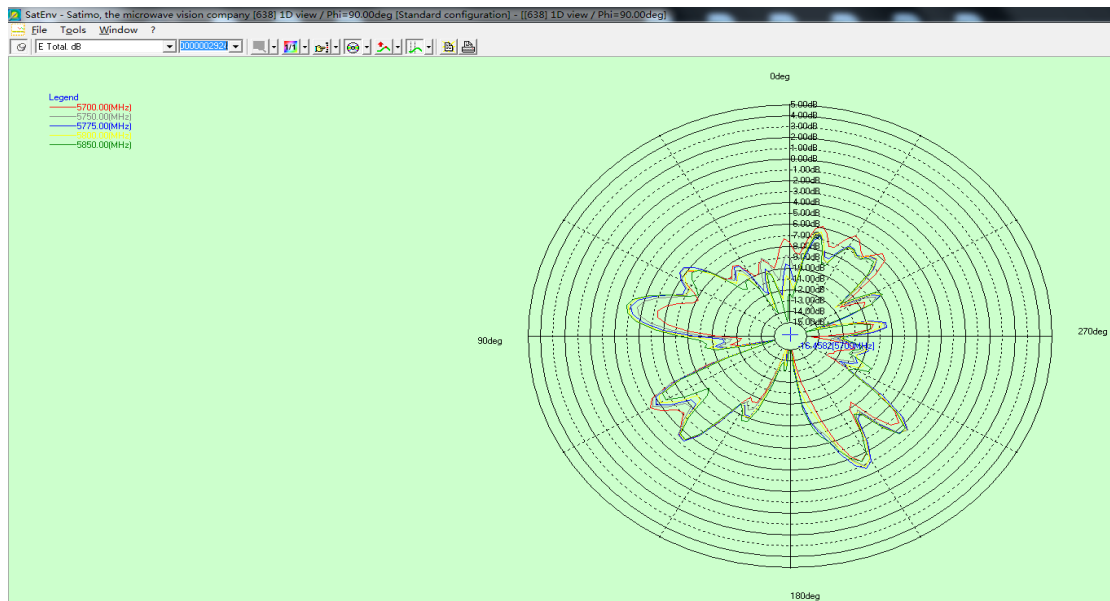


3.2 Wi-Fi antenna 5G radiation pattern

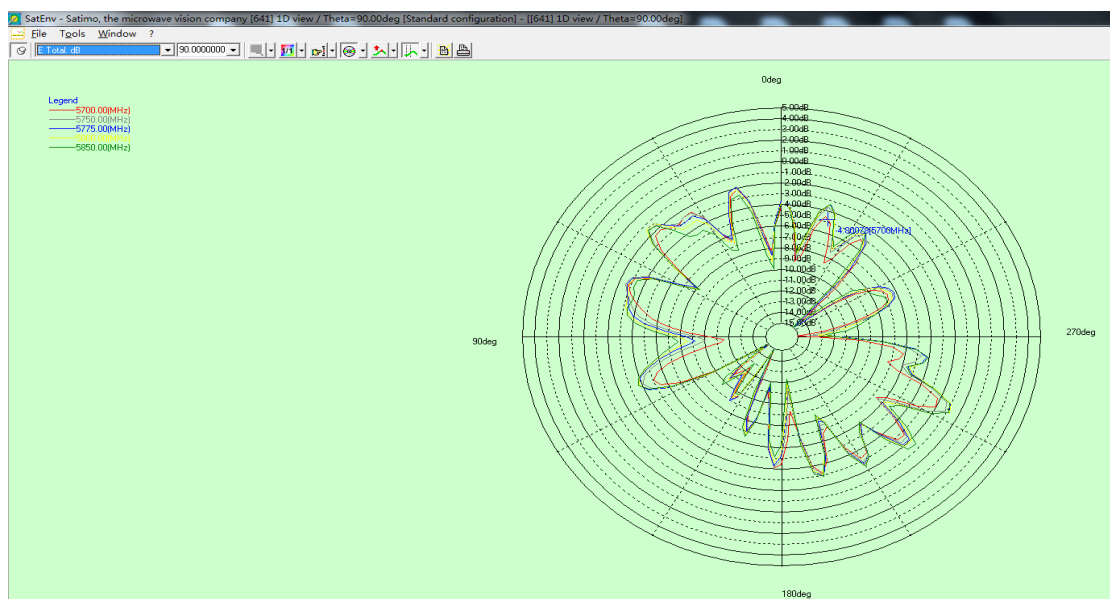
Phi=0



Phi=90

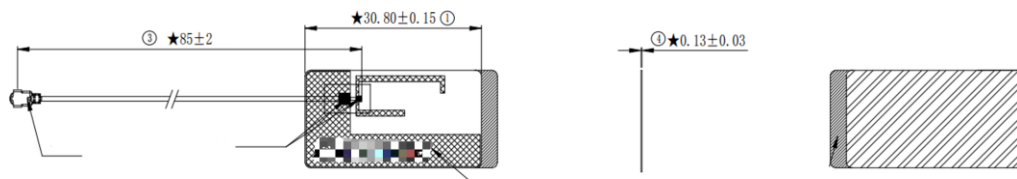


Theta=90



4 Structure drawing

Antenna1:



Antenna2:

