

Technical Specification Sheet for Wi-Fi Antenna Module

1 Key indicators of the Antenna

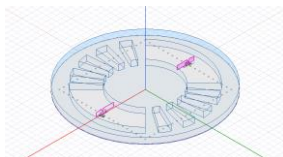
1.1 The key electrical performance indicators are shown in Table 1.

Table.1 The key electrical performance

The key electrical performance		
Operating frequency band (MHz)	2400~2500	5150~5850
<u>Directivity</u>	Omnidirectional	
Gain(dBi)	4	4
The number of antennas	2	
Isolations (dB)	≥ 32	≥ 26
VSWR	≤ 2.5	≤ 2.0
Input Impedance(Ω)	50	

1.2 The mechanical characteristics of the antenna are shown in Table 2.

Table 2 The mechanical characteristics of the antenna

The mechanical characteristics of the antenna		Wi-Fi antenna configuration
Antenna Dimensions (length $\times$ width $\times$ height) (mm)	33.5mm*11.6mm*0.5mm	
Net weight of the antenna (g)	1	
Interface position	Built-in on the PCB	
Operating Temperature($^{\circ}$ C)	-40 to +60	
Extreme temperature($^{\circ}$ C)	-55 to +75	
Relative Humidity(%)	≤ 95	

文件名称	技术规格书				文件编号				
产品型号			规格代	/	产品名称	WIFI 天线模块			
编制	高霞		审核	姚广鹏	工艺				
会签	/		标准化		批准				
标记	处数	更改文件号	签名	日期	标	处数	更改文件号	签名	日期

2 Diagram of the Electrical Performance of the Antenna

2.1 3D radiation patterns

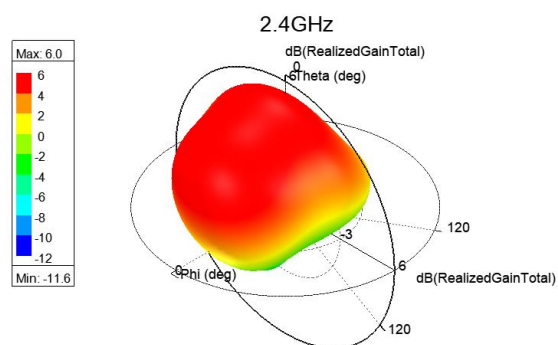


Fig.1 3D radiation patterns at 2.4GHz

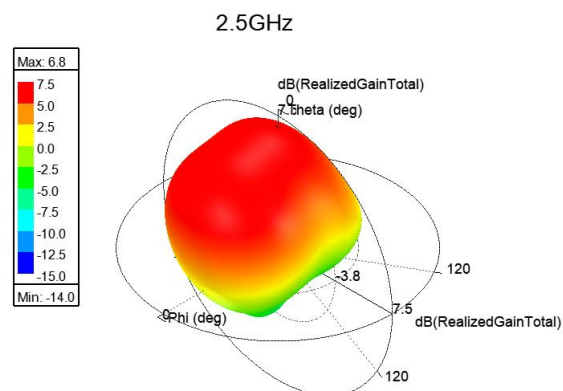


Fig.2 3D radiation patterns at 2.5GHz

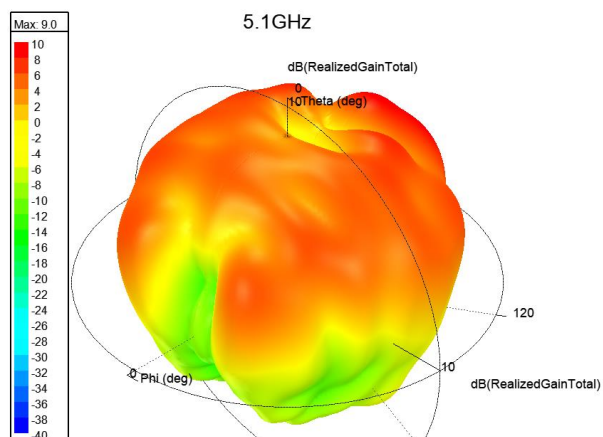


Fig.3 3D radiation patterns at 5.1GHz

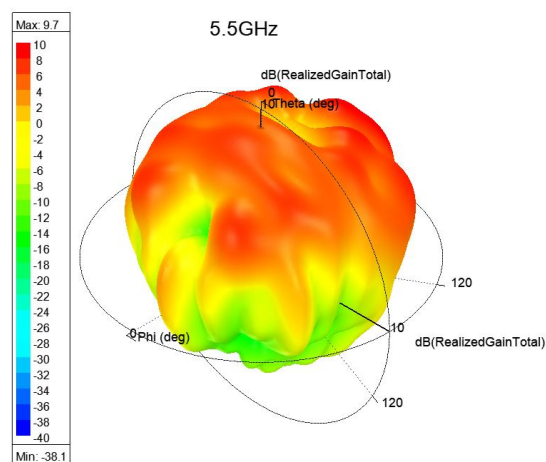
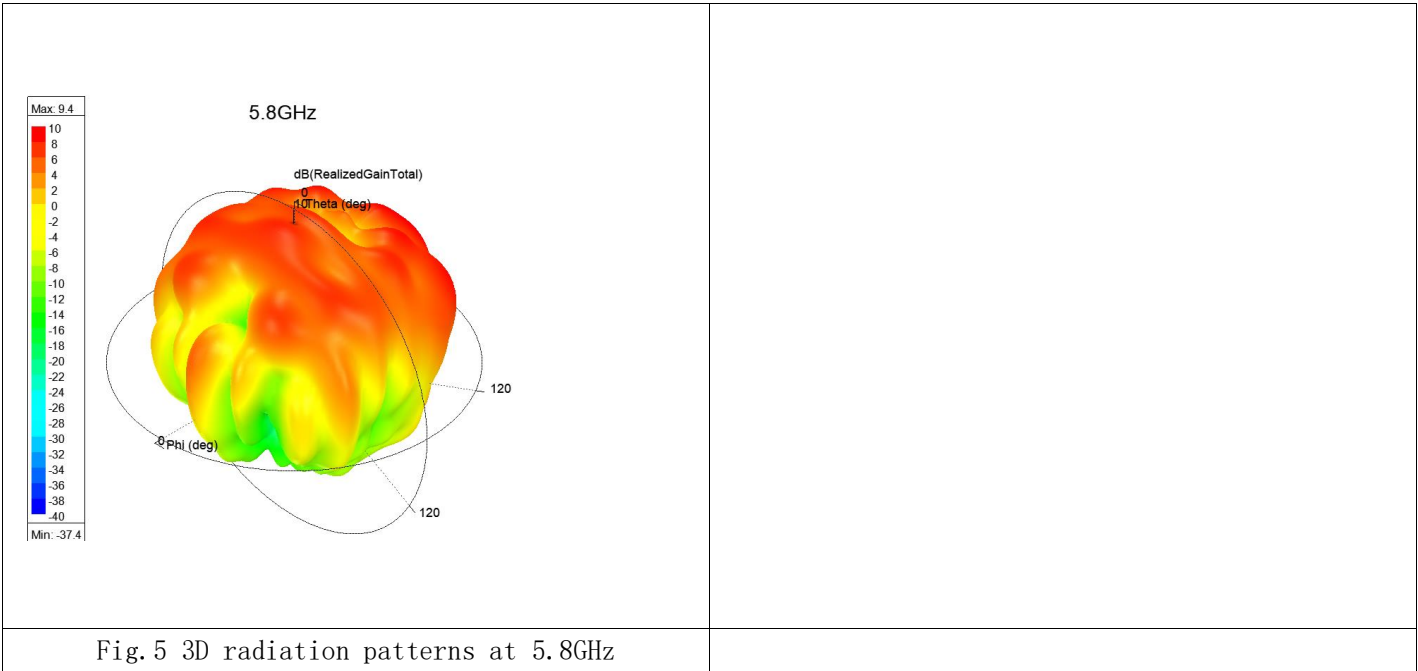
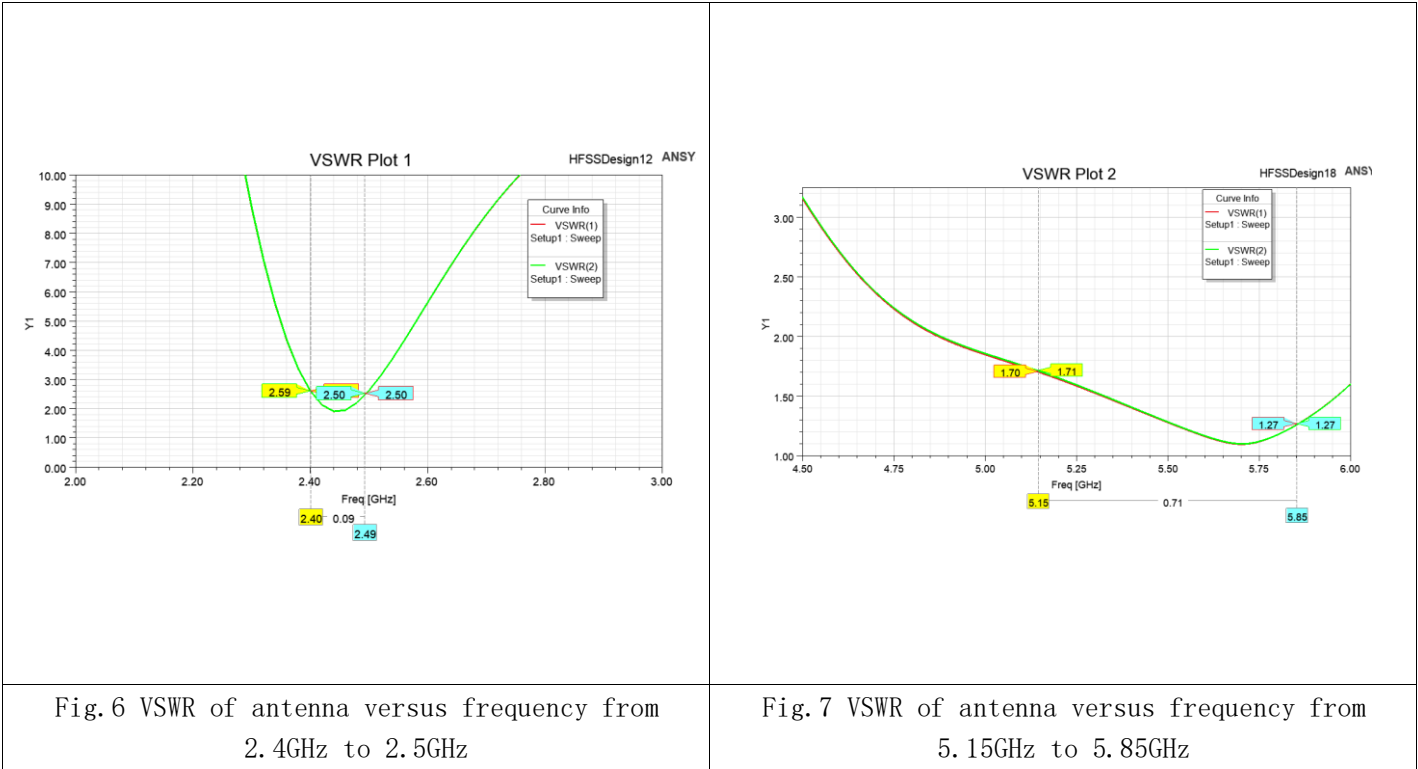


Fig.4 3D radiation patterns at 5.5GHz



2.2 VSWR



2.3 Isolations

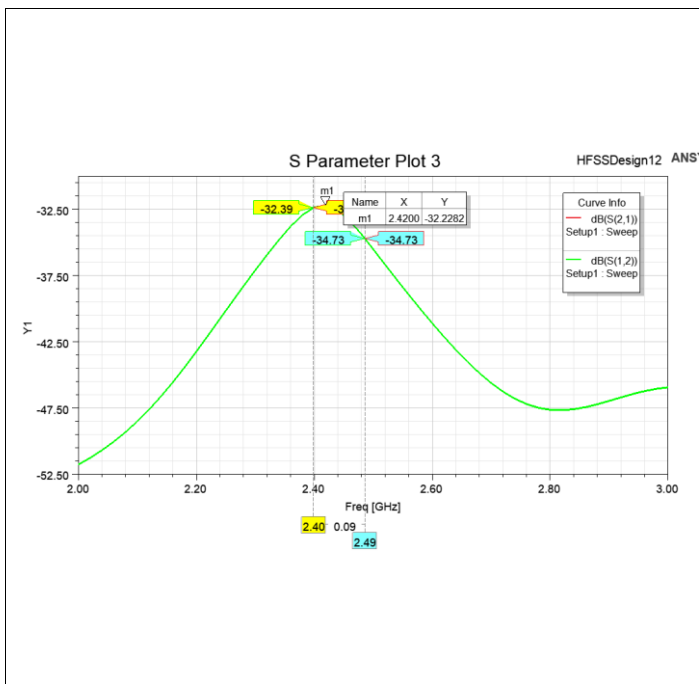


Fig.8 Isolation of antennas versus frequency from 2.4GHz to 2.5GHz

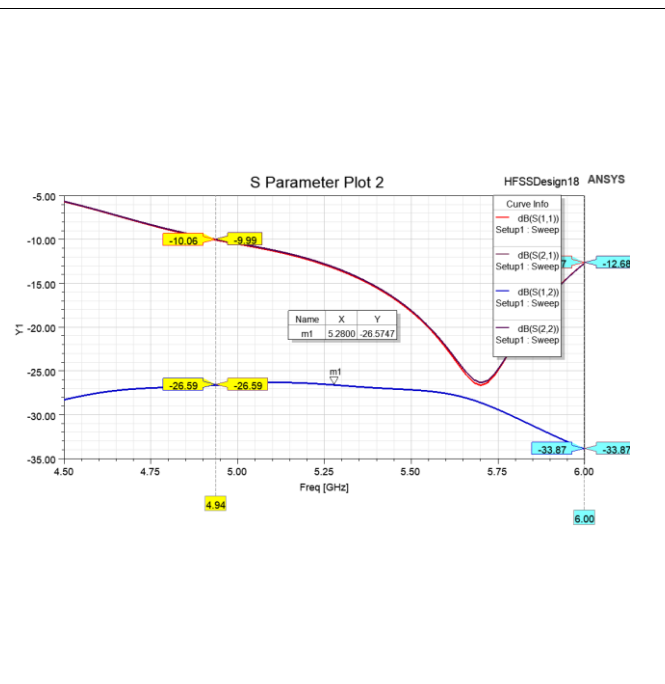


Fig.9 Isolation of antennas versus frequency from 5.15GHz to 5.85GHz