



## SPECIFICATION

### 1. Environmental parameters

Working temperature:

35 °C~80 °C

Storage temperature: 23°C~32 °C

### 2. Performance specifications

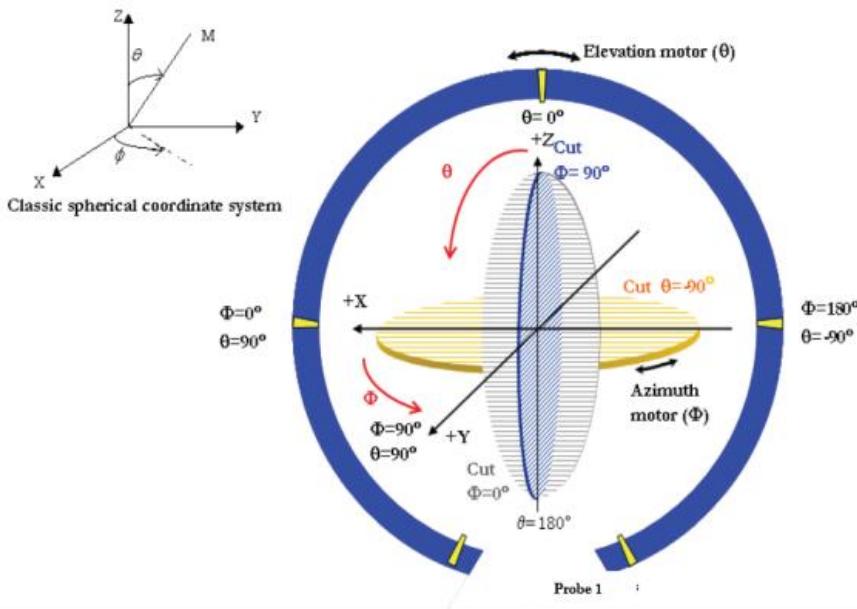
Electrical parameters	
Antenna performance indicators (2.4GHz WIFI&BT antenna)	
Frequency range (MHz)	2400~2500
Band width (MHz)	100
Input impedance (ohms)	50
Return loss (S11)	≤-10
Gain (dBi)	≤3
Polarization mode	linear polarization
Radiation efficiency	≥40%

### 3. Product images



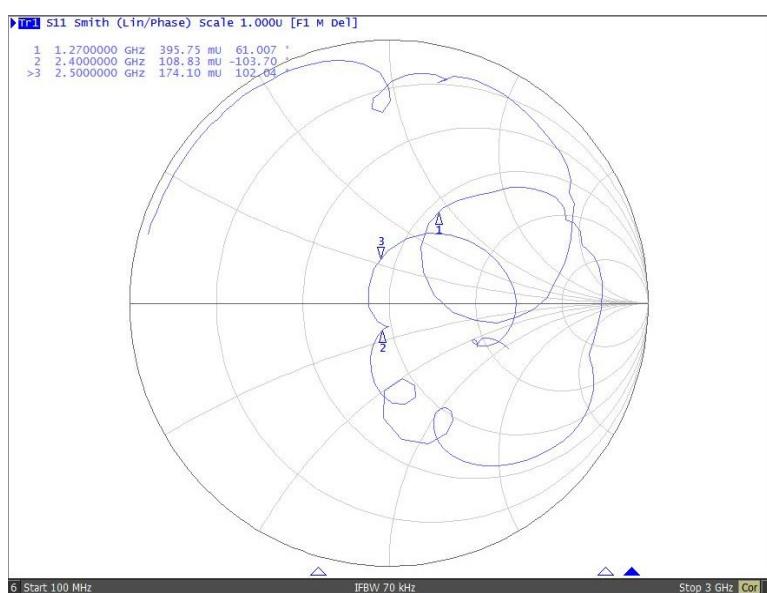
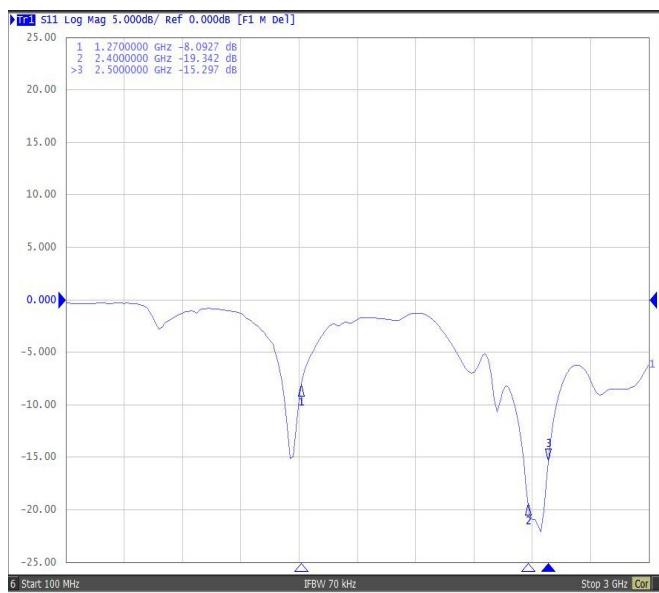
#### 4. Antenna testing environment

The antenna input characteristics were tested using an Agilent E5071C vector network analyzer. The antenna radiation characteristics test uses a near-field microwave anechoic chamber. The test coordinate system is shown in the figure,



#### 5. Antenna performance test data

##### Antenna test image





Antenna test data

Standing wave diagram

Active data

Passive data

	Wifi 2G TRP			Wifi 2G TIS			Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
	1	7	13	1	7	13				
11b	1	7	13	1	7	13	2400	45.7	-3.4	0.9
	2412	2442	2472	2412	2442	2472	2410	45.1	-3.5	1.6
	9.4	8.2	7.3	-87	-86.3	-86.3	2420	43.7	-3.6	1.7
11M	Wifi 2G TRP			Wifi 2G TIS			2430	54.3	-2.7	2.9
	1	7	13	1	7	13	2440	49.8	-3	2.7
	2412	2442	2472	2412	2442	2472	2450	52.5	-2.8	2.9
	9.3	8.2	7.4	-88.3	-86.6	-86.6	2460	51.1	-2.9	2.6
							2470	55.6	-2.6	2.9
							2480	56.2	-2.5	2.8
							2490	53.8	-2.7	2.5
							2500	52.4	-2.8	2.4
							AVE	50.9	-2.9	2.4

## 6. Antenna drawing

