



SPECIFICATION

1.Environmental parameters

Working temperature:
35 °C~80 °C

Storage temperature: 23℃~32 °C

2.Performance specifications

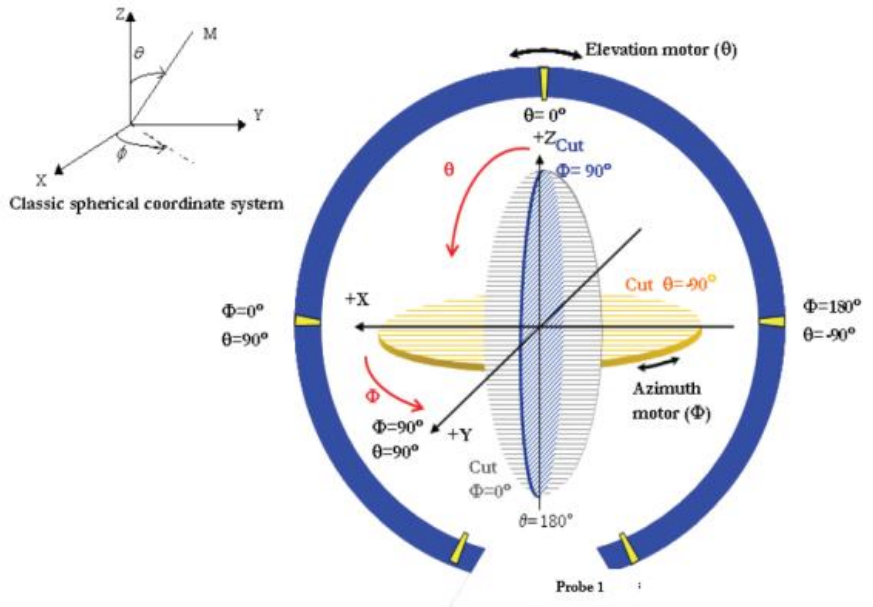
Electrical parameters	
Antenna performance indicators (2.4GHz WIFI&BT antenna)	
Frequency range (MHz)	2400-2500
Band width (MHz)	100
Input impedance (ohms)	50
Return loss (S11)	≧-10
Gain (dBi)	≧3
Polarization mode	linear polarization
Radiation efficiency	≧40%

3. Product images



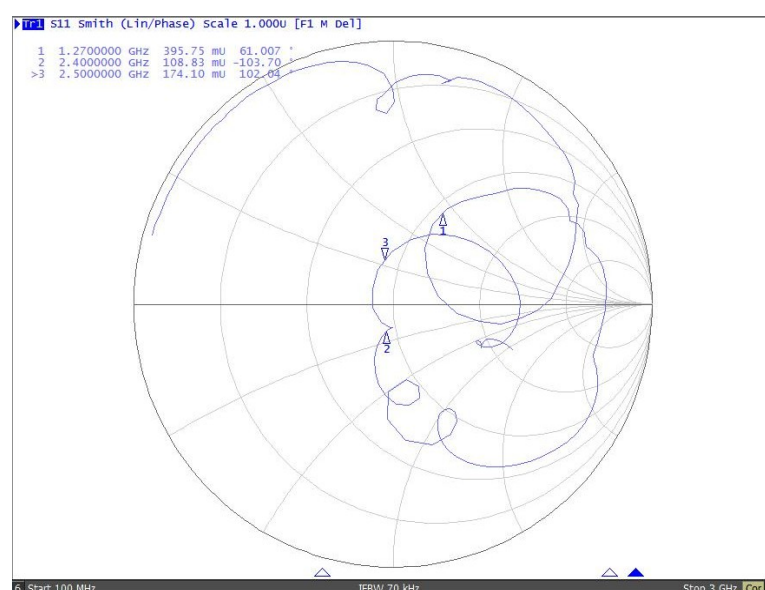
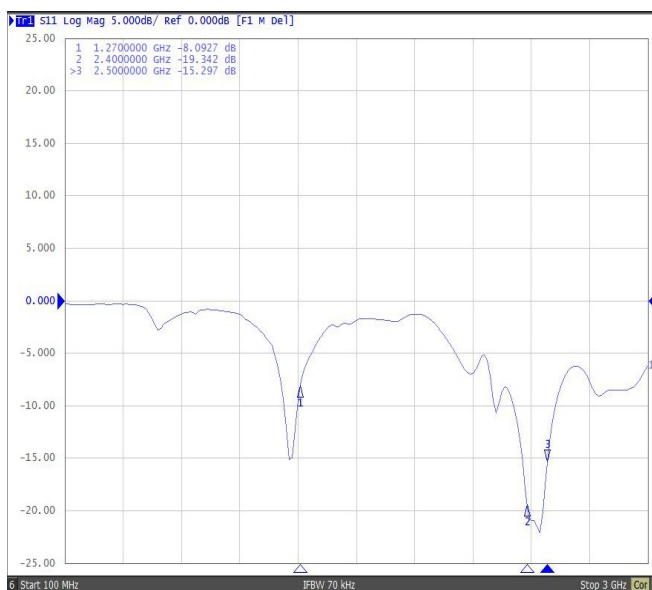
4. Antenna testing environment

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

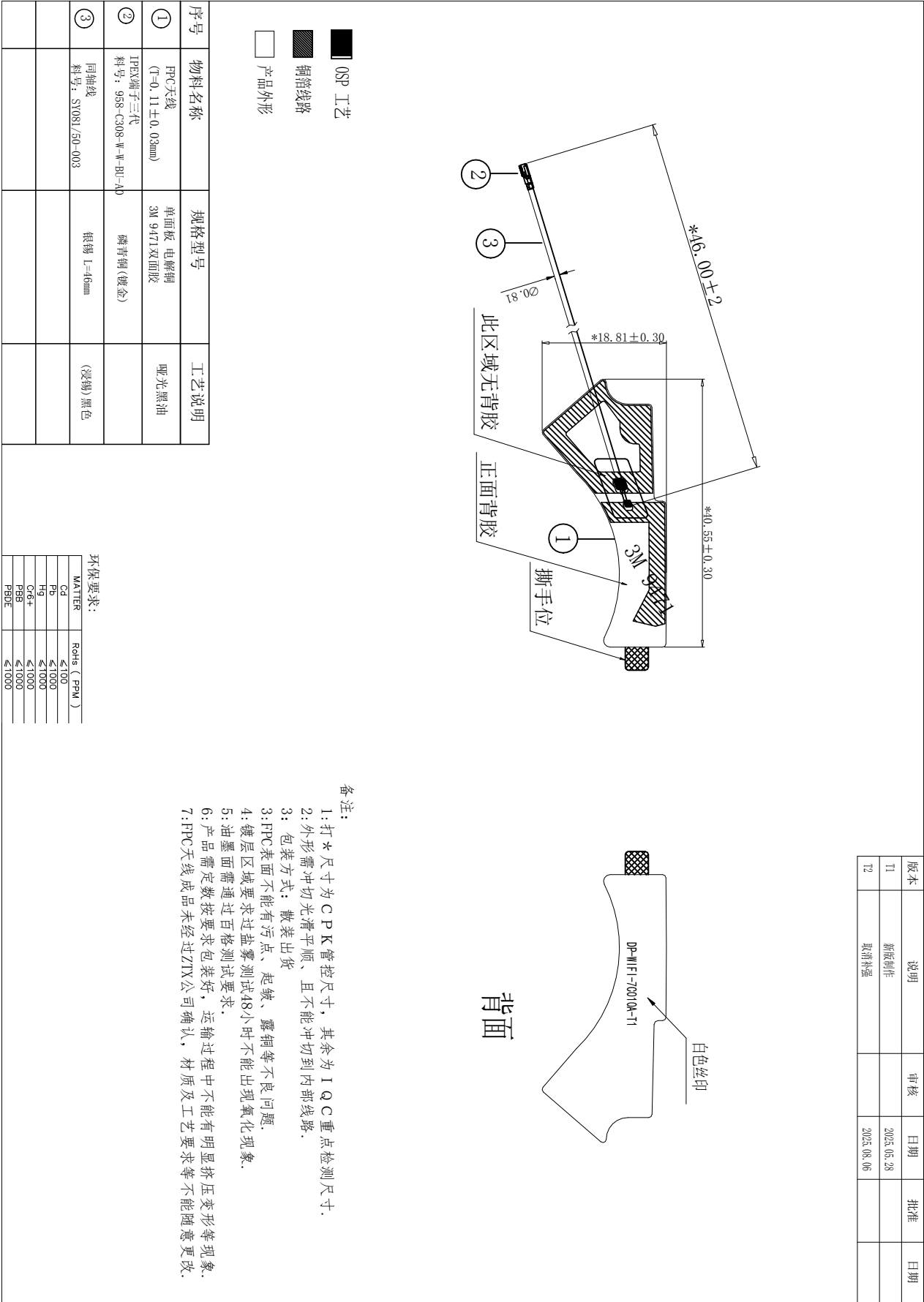
Standing wave diagram

Active data

Passive data

11b 11M	Wifi 2G TRP			Wifi 2G TIS			Freq	Effi	Effi	Gain
	1	7	13	1	7	13	(MHz)	(%)	(dB)	(dBi)
11b 11M	2412	2442	2472	2412	2442	2472	2400	45.7	-3.4	0.9
	9.4	8.2	7.3	-87	-86.3	-86.3	2410	45.1	-3.5	1.6
11b 1M	Wifi 2G TRP			Wifi 2G TIS			2420	43.7	-3.6	1.7
	1	7	13	1	7	13	2430	54.3	-2.7	2.9
	2412	2442	2472	2412	2442	2472	2440	49.8	-3	2.7
	9.3	8.2	7.4	-88.3	-86.6	-86.6	2450	52.5	-2.8	2.9
							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



版本	说明	审核	日期	批准	日期
T1	新版制作		2025.05.28		
T2	取消补强		2025.08.06		