

Manufacturer	SHENZHEN FANHUI TECH CO., LTD.
Address	A510, Languang Technology Building, No.27, Gaoxin North Sixth Road, Songpingshan Community, Xili Street, Nanshan District, Shenzhen
Antenna type	Internal Antenna
Model	HB15
Antenna Gain	-1.33dBi for 2.4G

1. Test equipment and conditions:

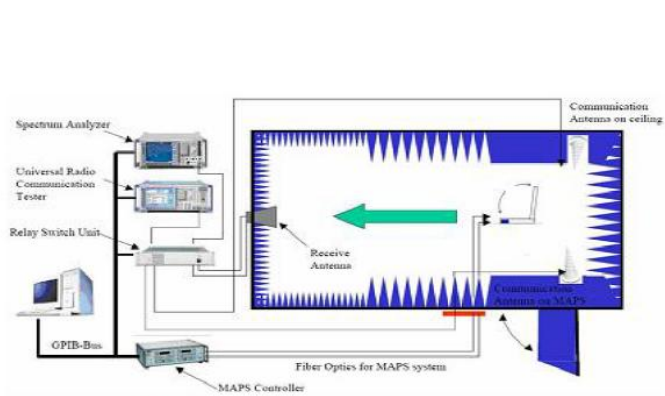
1.1. Network Analyzer

Agilent 8753D Agilent 5071B

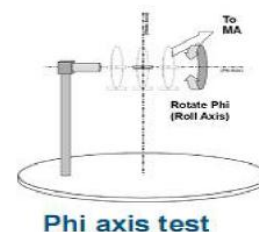
1.2. Communication test equipment

Agilent E5515C R&S CMW500

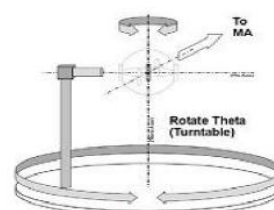
1.3. Test system



(Testing by 3D anechoic chamber)

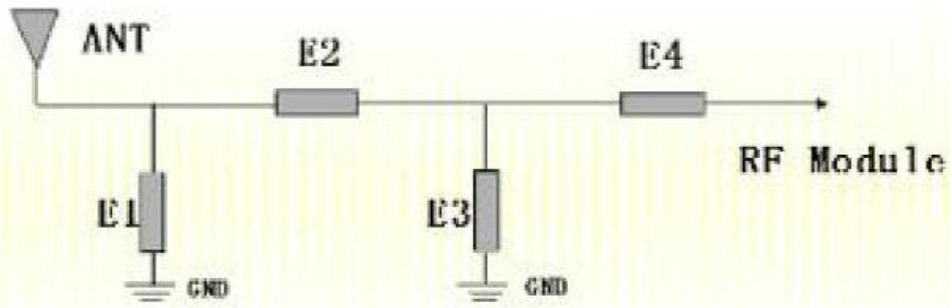


Phi axis test



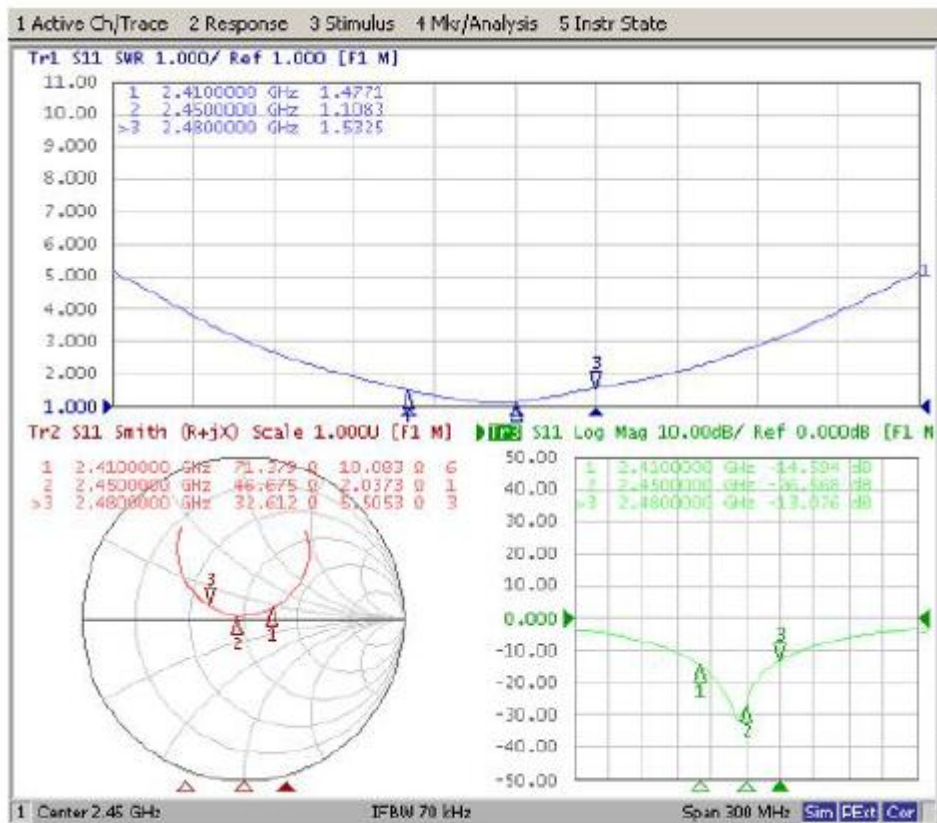
Theta axis test

1.4. Matching circuit



2. Test Data:

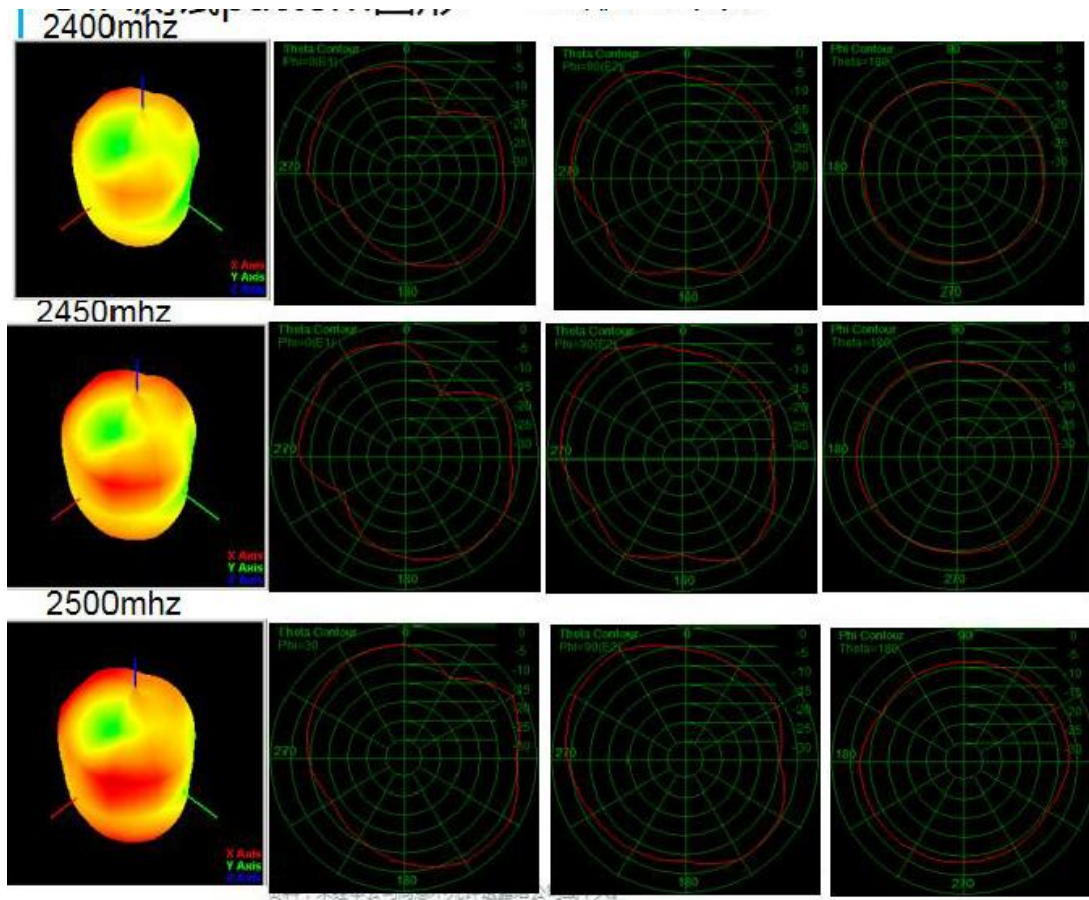
2.1. Standing wave ratio



2.2.Efficiency

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	-3.12	17.2%
2	2410.0	-2.51	20.1%
3	2420.0	-2.77	19.3%
4	2430.0	-2.30	21.2%
5	2440.0	-2.08	21.7%
6	2450.0	-1.86	22.3%
7	2460.0	-1.33	24.9%
8	2470.0	-1.68	23.5%
9	2480.0	-1.42	25.1%
10	2490.0	-1.34	26.3%
11	2500.0	-1.56	25.1%

2.3.Directivity diagram



3. Antenna drawing:

