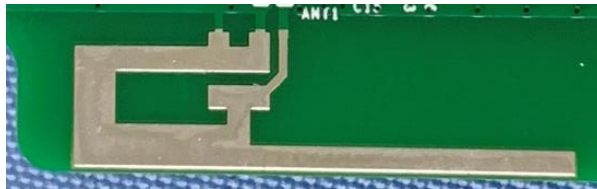


Antenna Specification

1. Antenna Describe

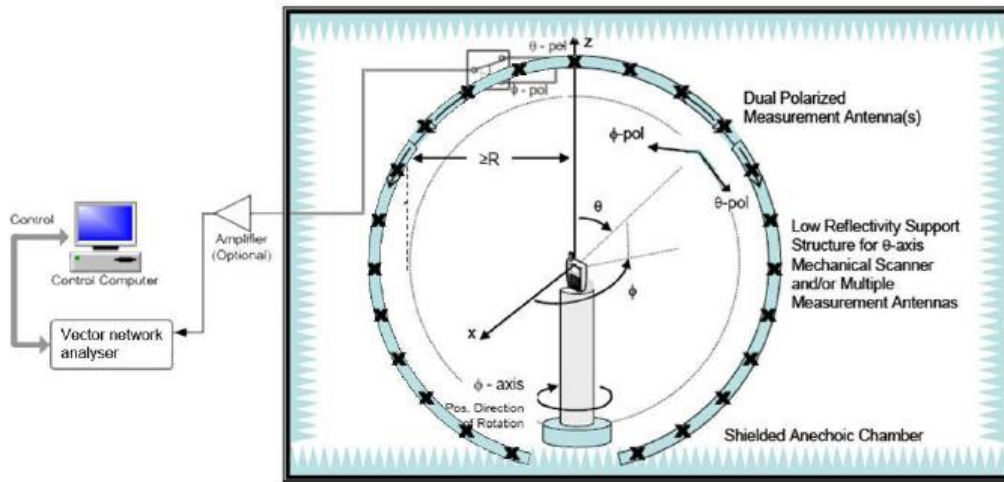
Antenna Manufacturer	Woan Technology (Shenzhen) Co., Ltd.
Antenna Address	Room 1101, Qiancheng Commercial Center, No.5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100
Antenna Model	W3902300
Antenna Type	PCB Antenna
Antenna Gain	4.28dBi Max
Frequency Rang	2400-2483.5MHz
VSWR	≤ 2
Input Impedance	50 Ω

2. External View Drawing



3. Measurement Result

3.1 Test Setup



3.2 S11 Diagram

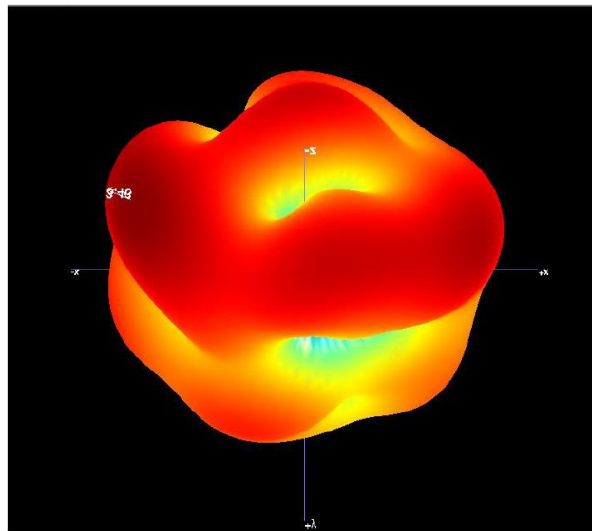


3.3 Antenna test data

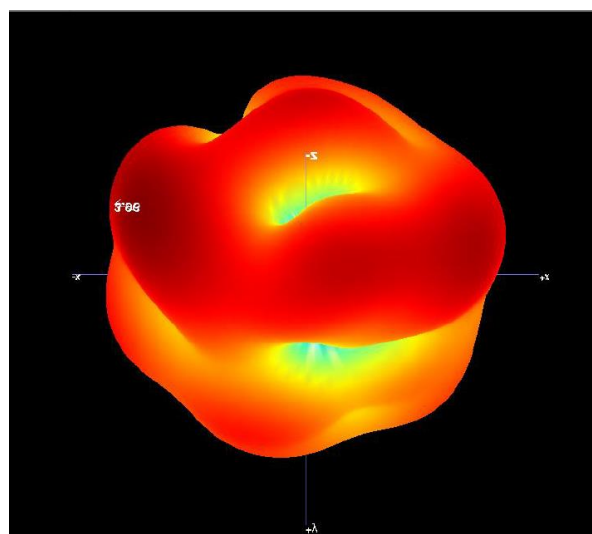
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	3.46	44
2410	3.60	44
2420	3.72	45
2430	3.83	45
2440	3.96	46
2450	3.99	46
2460	4.02	46
2470	4.19	48
2480	4.27	49
2483.5	4.28	49

3.4 Antenna test diagram

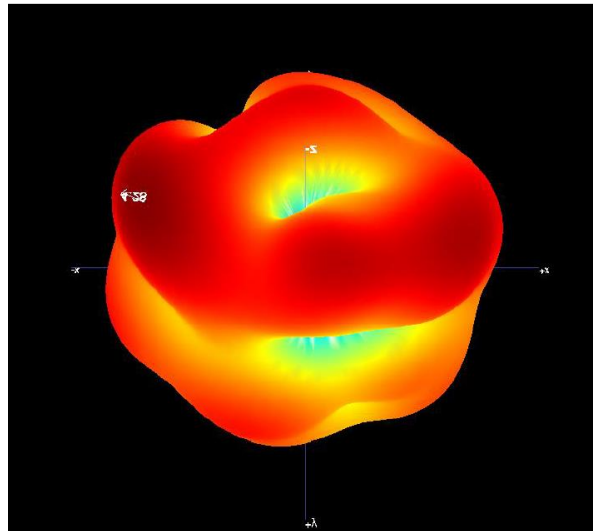
3D Pattern



2400MHz

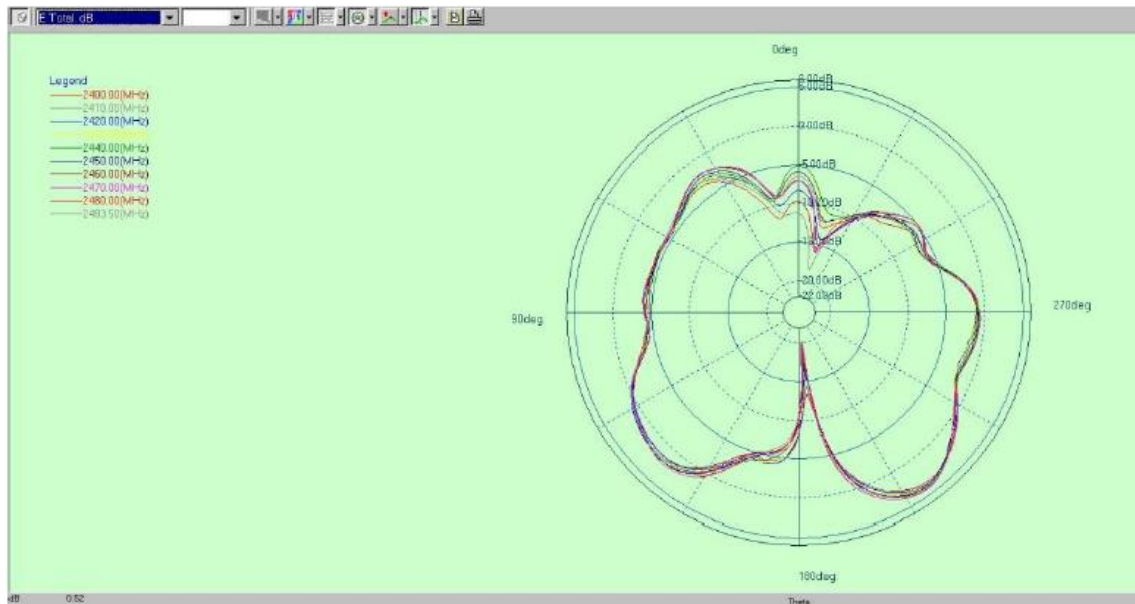


2440MHz

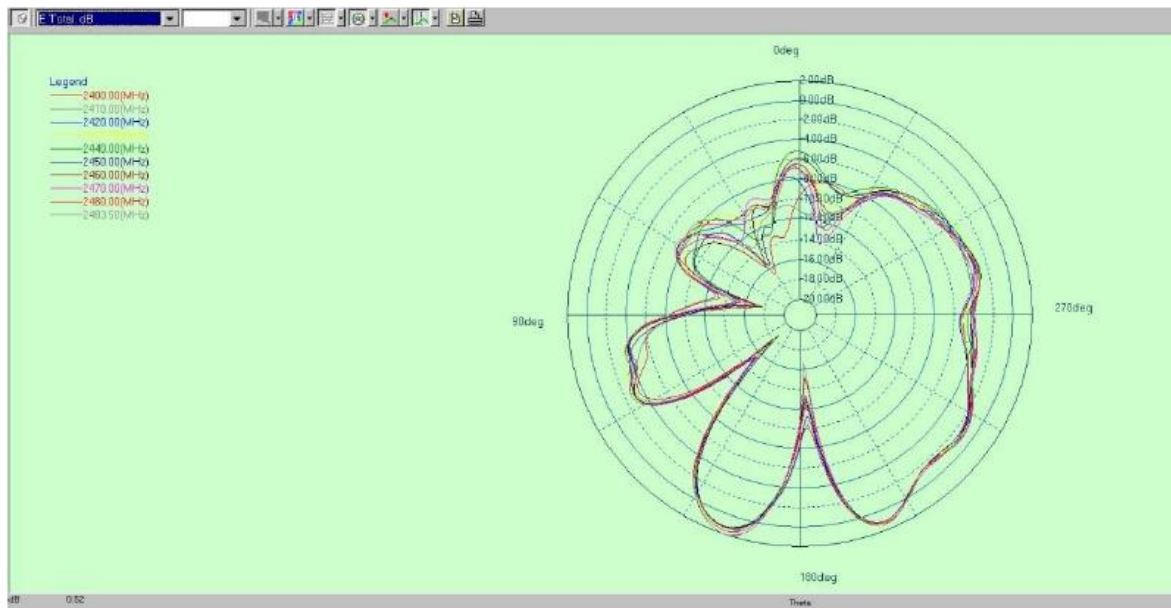


2483.5MHz

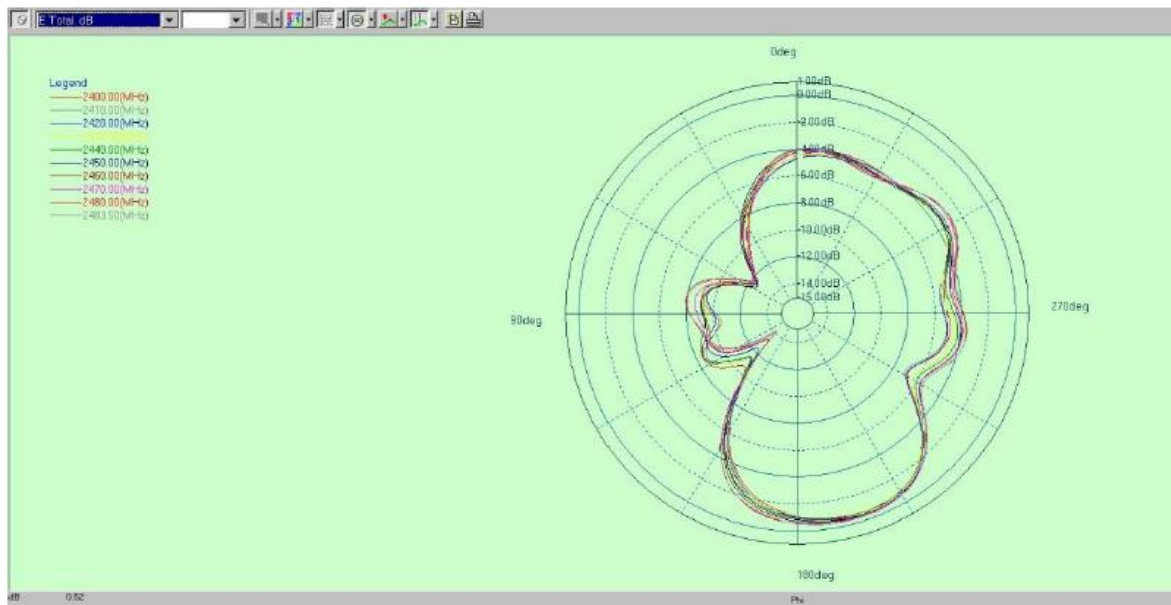
1D Pattern



PHI=0



PHI=90



THETA=90