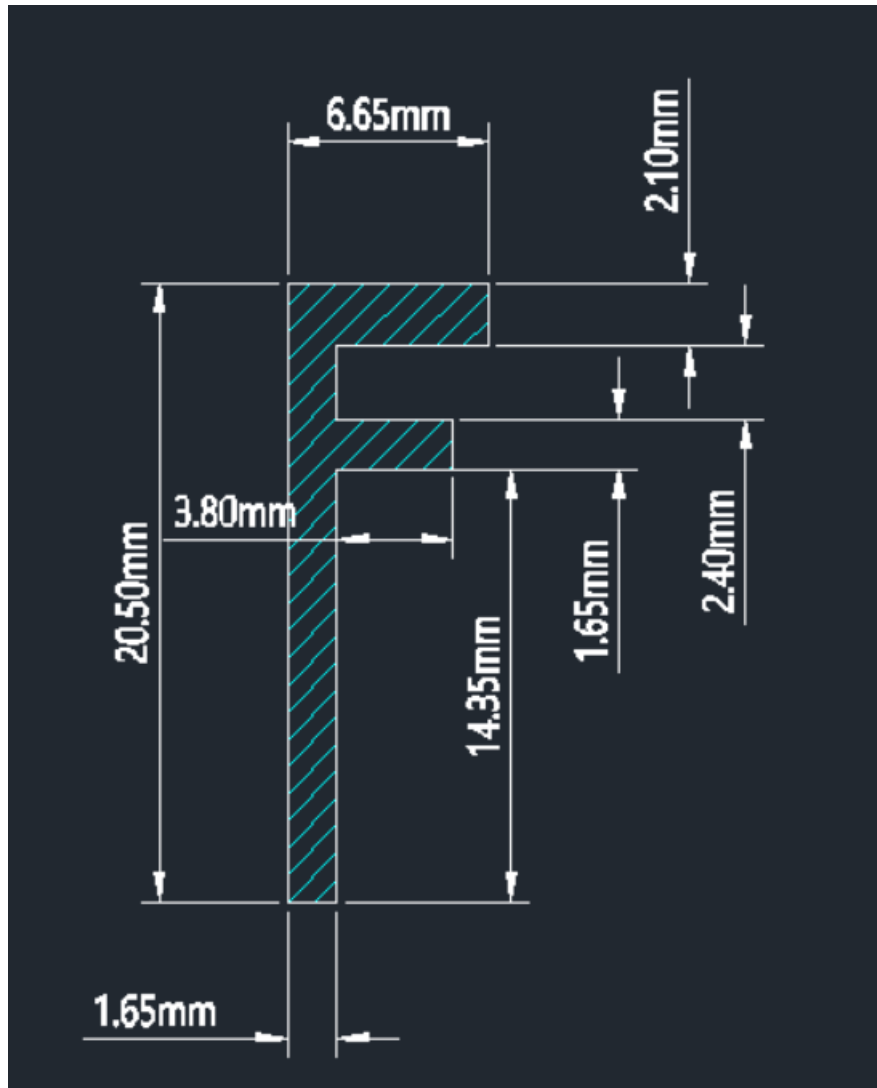


Antenna Specification

1、Electrical performance

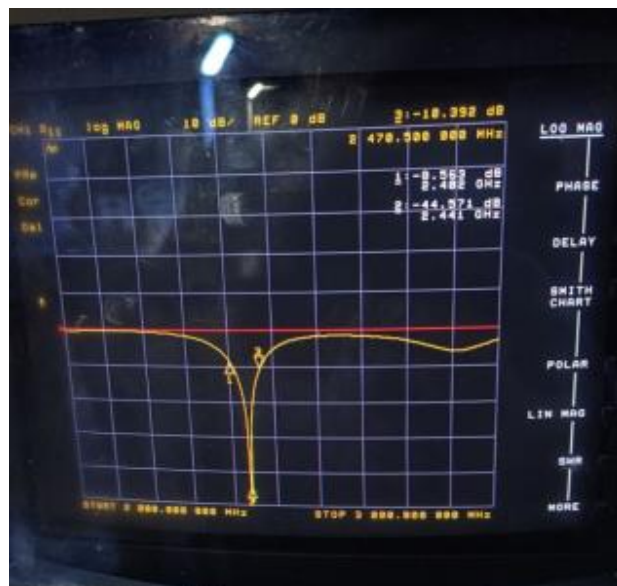
- 1.1) Type of Antenna: Built-in antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain:3.05 dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR:≤1.8
- 1.6) Return Loss:< -10dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATS-102
- 1.10) Manufacturer:Guangdong Antexin Technology Co., LTD
- 1.11) Brand: Guangdong Antexin Technology Co., LTD
- 1.12) Manufacturer's Address: 4-9 Floor, Unit 2, Building 1, Zone D, Qunyi Intelligent ManufacturingIndustrial Park, South Side of Sanhe Avenue, Tonghu Town, Zhongkai High-Tech District, Huizhou City, Guangdong Province China

2、Antenna graph



(a) Built-in antenna

3、 Network analyzer graph



(b) Return Loss



(c) VSWR



(d) Smith Chart

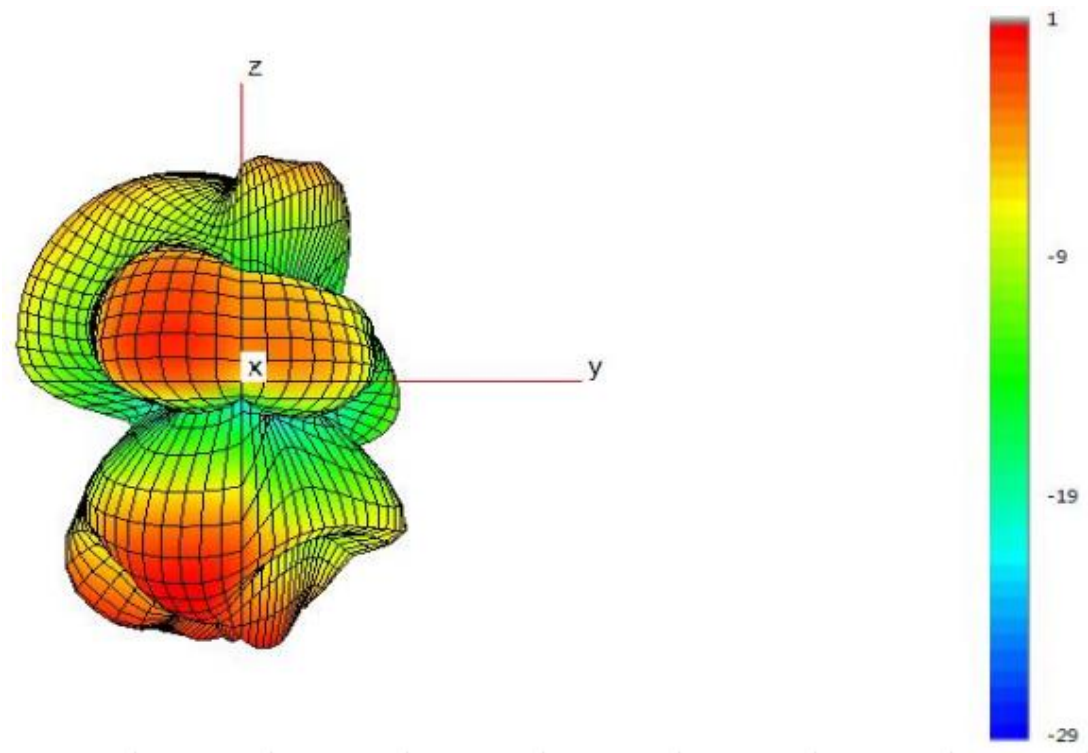
4、 Gain pattern

4.1) Gain chart

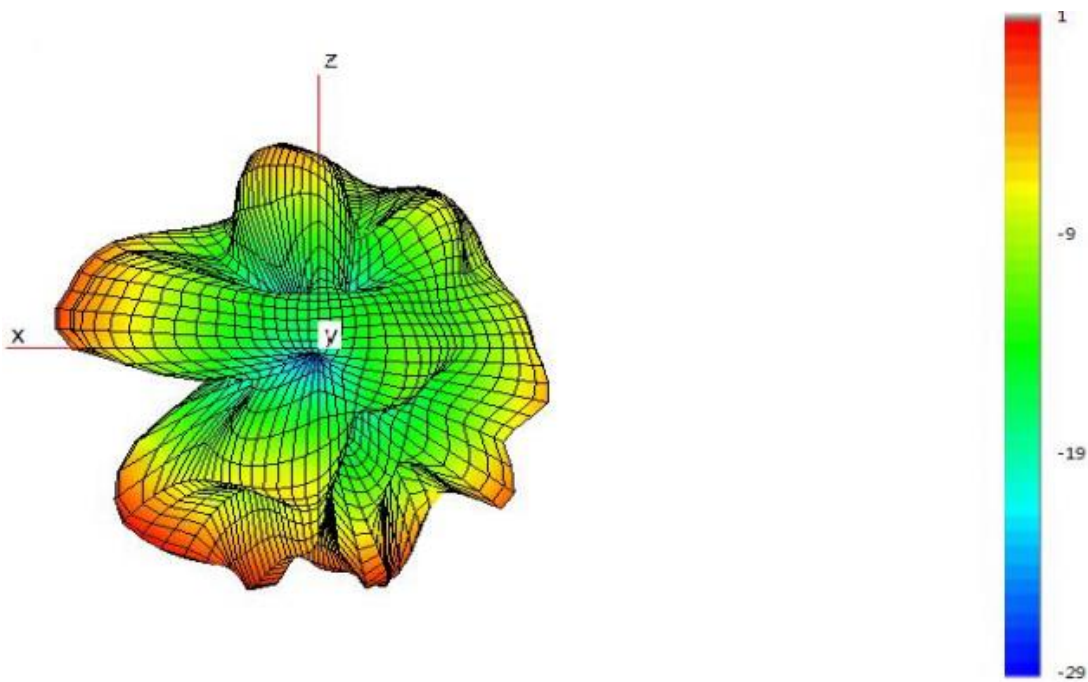
Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	2.27	-3.05	49.52
2410	2.51	-2.99	50.29
2420	2.69	-2.88	51.46
2430	2.95	-2.72	53.51
2440	3.05	-2.63	54.52
2450	2.94	-2.69	53.81
2460	2.69	-2.70	53.74
2470	2.68	-2.68	53.93

2480	2.65	-2.67	54.06
2490	2.20	-2.81	52.35
2500	2.00	-2.83	52.07
Mean value	2.60	-2.79	52.66

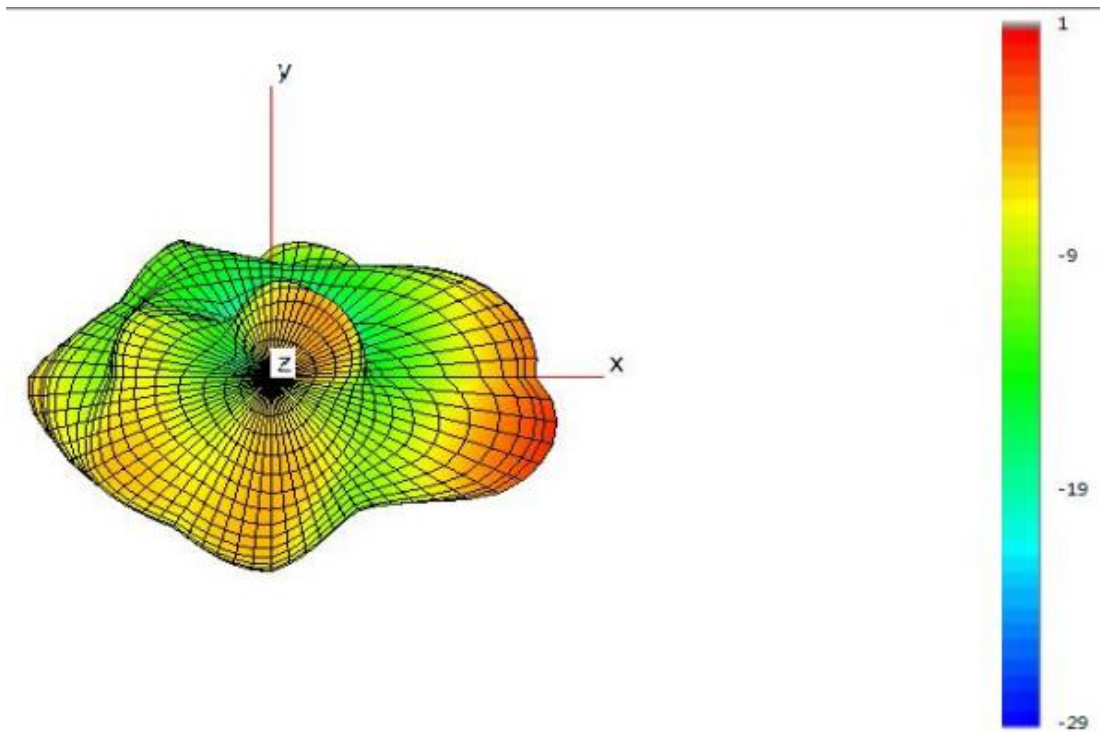
4.2) 3D gain pattern



(e) 2.45GHZ 3D gain pattern, X+

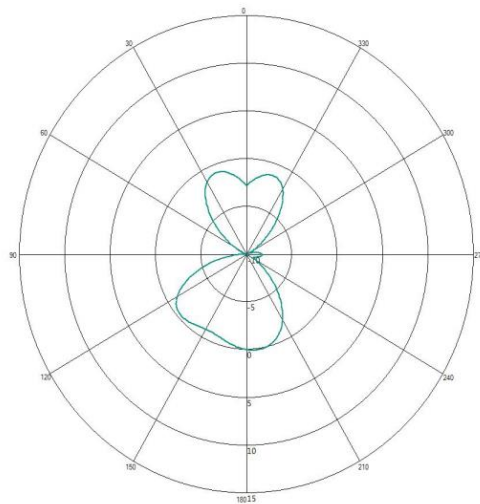


(f) 2.45GHZ 3D gain pattern, Y+

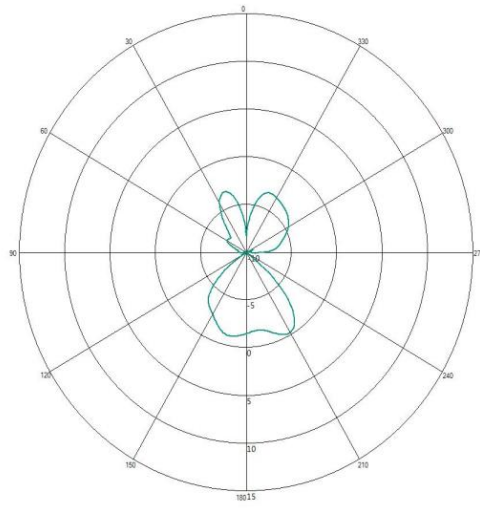


(g) 2.45GHZ 3D gain pattern, Z+

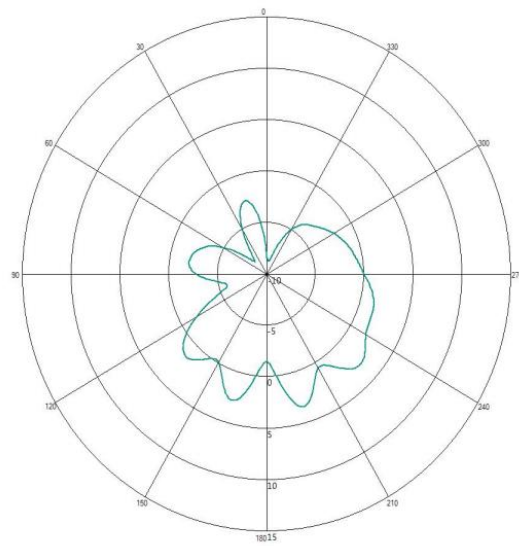
4.3) 2D gain pattern



(H) (XY-Plane)



(I) (ZY-Plane)



(J) (ZX-Plane)