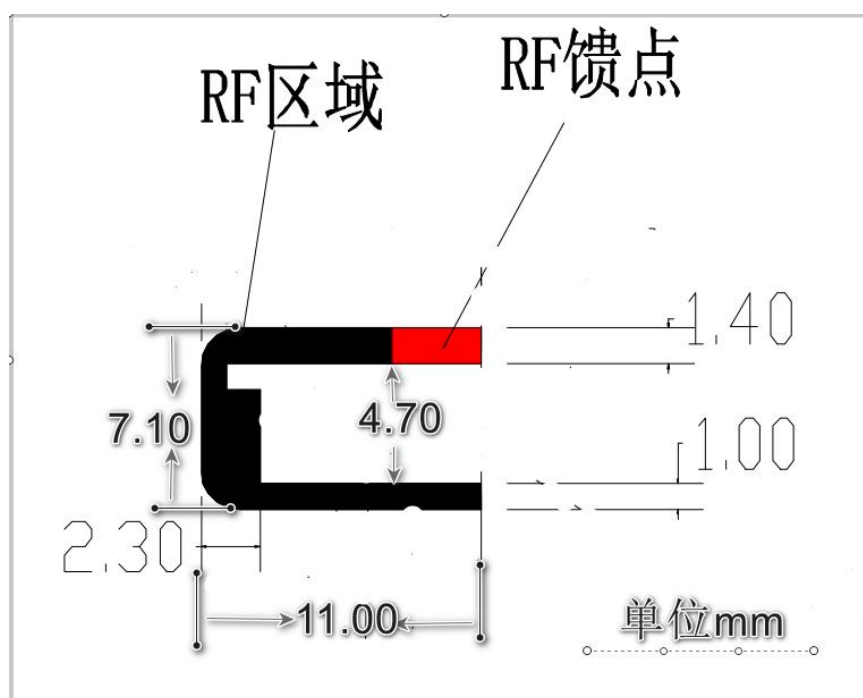


ATL-69-Antenna Specification

1、Electrical performance

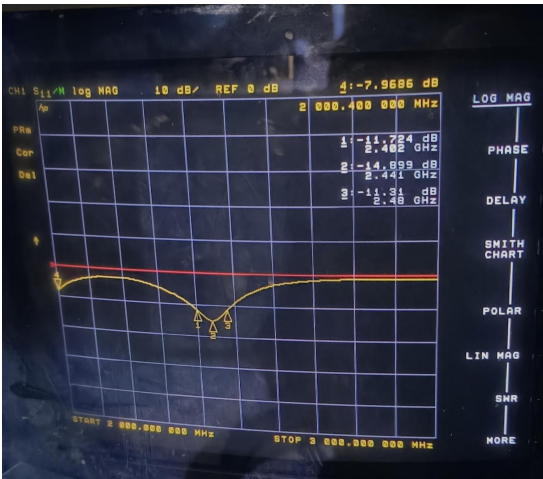
- 1.1) Type of Antenna: FPC antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain: 0 . 0 1 dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR: ≤ 2
- 1.6) Return Loss: ≤ -10 dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATL-69
- 1.10) Manufacturer: Guangdong Antexin Technology Co., LTD
- 1.11) Brand: Guangdong AntexinTechnology Co., LTD

2、Antenna graph



(a) FPC antenna

3、 Network analyzer graph



(b) Return Loss



(c) VSWR



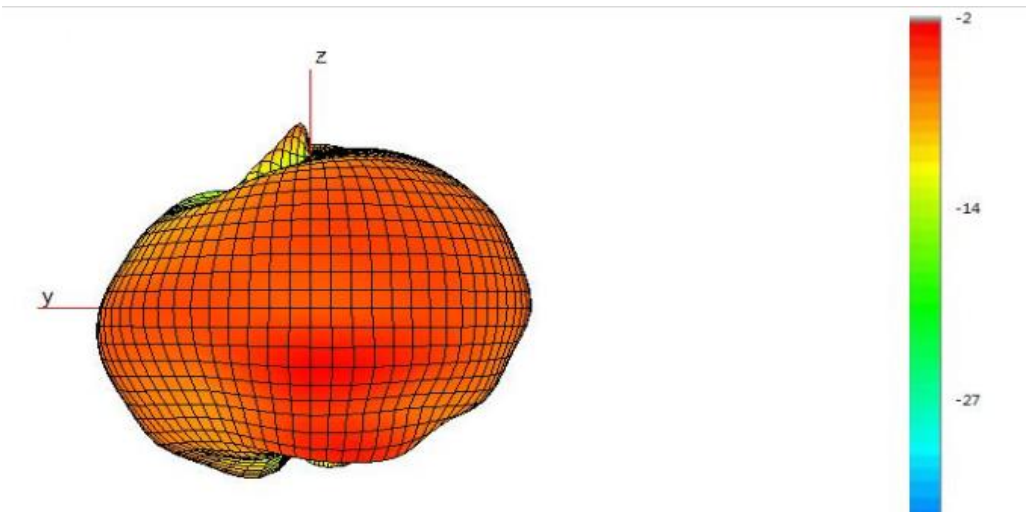
(d) Smith Cha

4、 Gain pattern

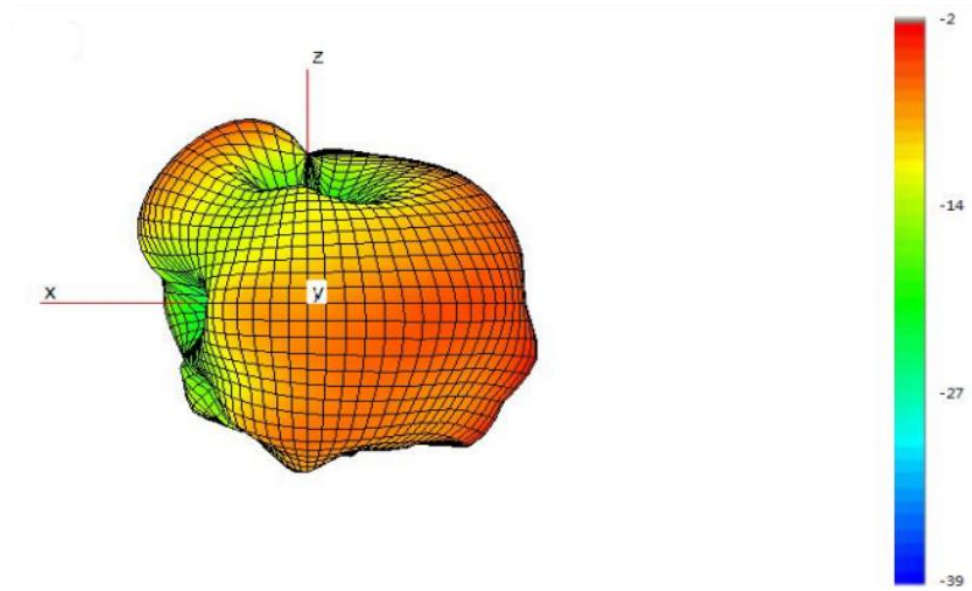
4.1) Gain chart

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	-0.027567	-5.967670	22.183531
2410	0.008363	-5.974231	24.732735
2420	-1.463572	-7.499502	24.280018
2430	-1.263243	-7.368384	29.141110
2440	-0.216850	-6.301367	35.413908
2450	-1.164290	-7.251733	39.889527
2460	-1.366772	-7.445782	37.348208
2470	-0.695622	-6.751735	37.974524
2480	-0.488537	-6.334024	33.647860
2490	-0.520680	-6.543233	27.760726
2500	-0.973722	-6.922833	24.938536

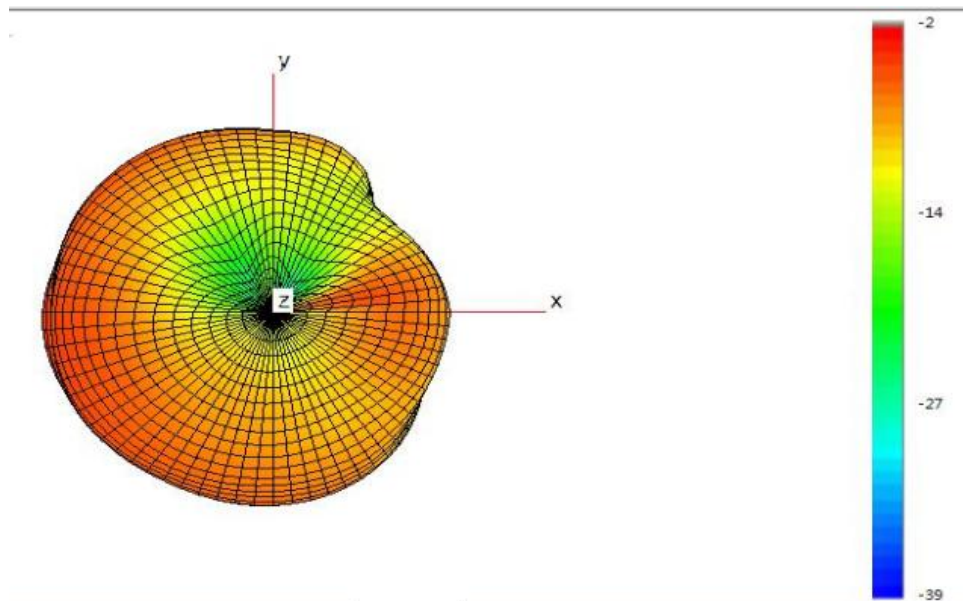
4.2) 3D gain pattern



(e) 3D gain pattern, X+

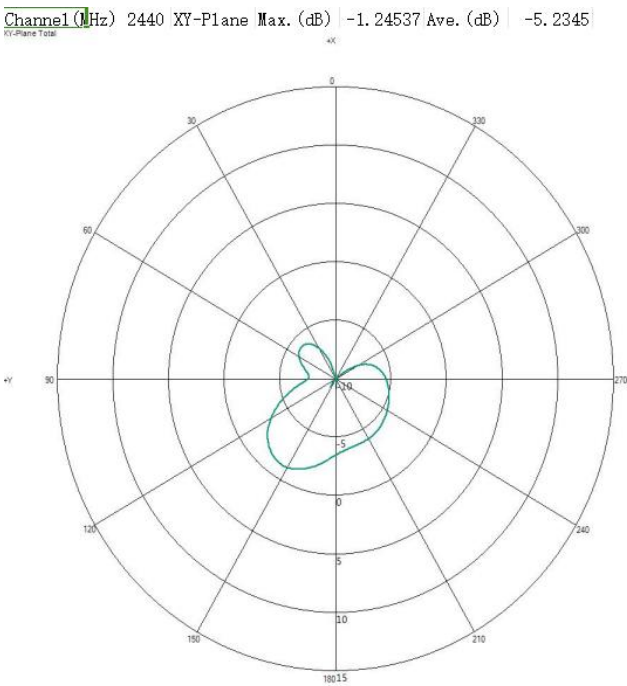


(f) 3D gain pattern, Y^+

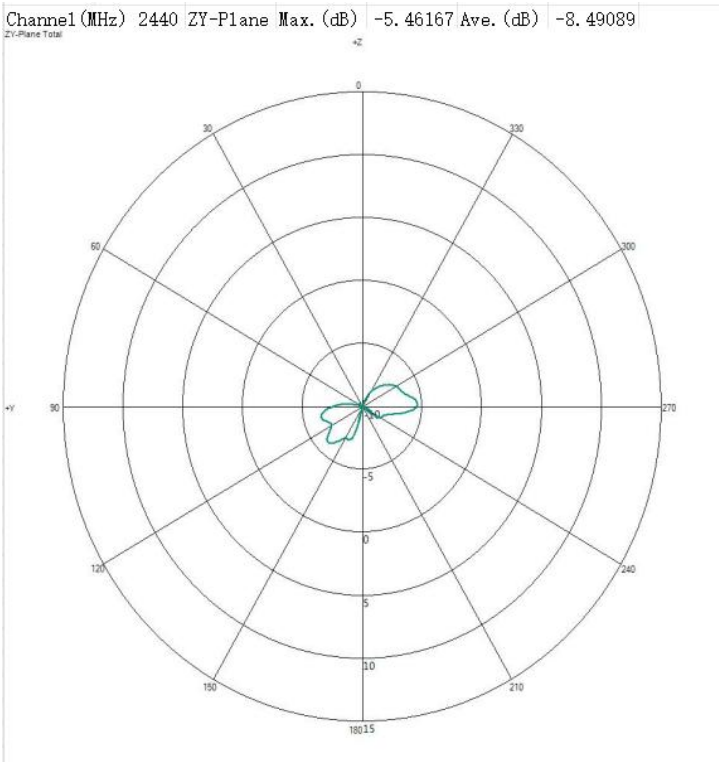


(g) 3D gain pattern, Z^+

4.3) 2D gain pattern

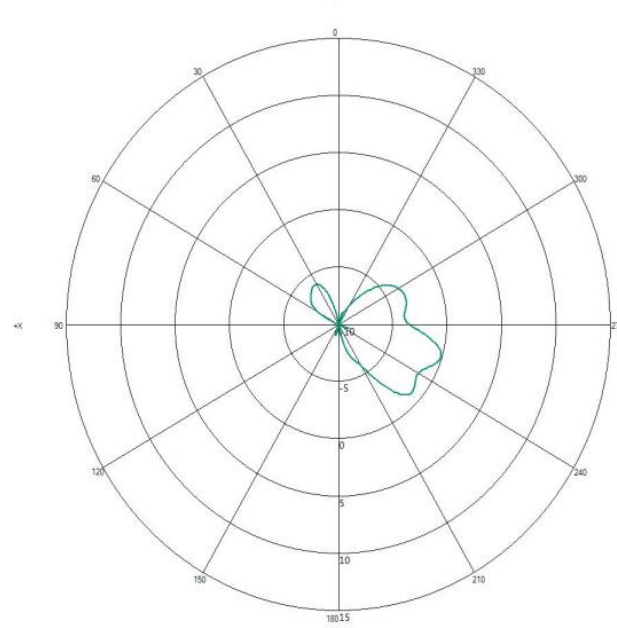


(f) 2440MHZ FPC antenna (XY-Plane)



(g) 2440MHZ FPC antenna (ZY-Plane)

Channel (MHz)	2440	ZX-Plane Max. (dB)	-0.21685	Ave. (dB)	-5.70852
ZX-Plane Total					



(h) 2440MHZ FPC antenna (ZX-Plane)