

The Wiggle antenna design for larger-sized Normal Modules takes up less space than the large PIFA antenna and is more flexible in application, while maintaining comparable performance. It is widely used in wireless keyboard and mouse products. The specific dimensions of the antenna are shown in the following figure (the board is made of two layers of FR4 with a thickness of 1.0mm). If the board thickness and size are inconsistent with this (the thickness and ground area size affect performance), the antenna end size should be lengthened during layout, such as increasing the length of the last end by 2.7mm for antenna debugging. The size of the RF Module board made from this antenna is approximately 13mm * 18mm.

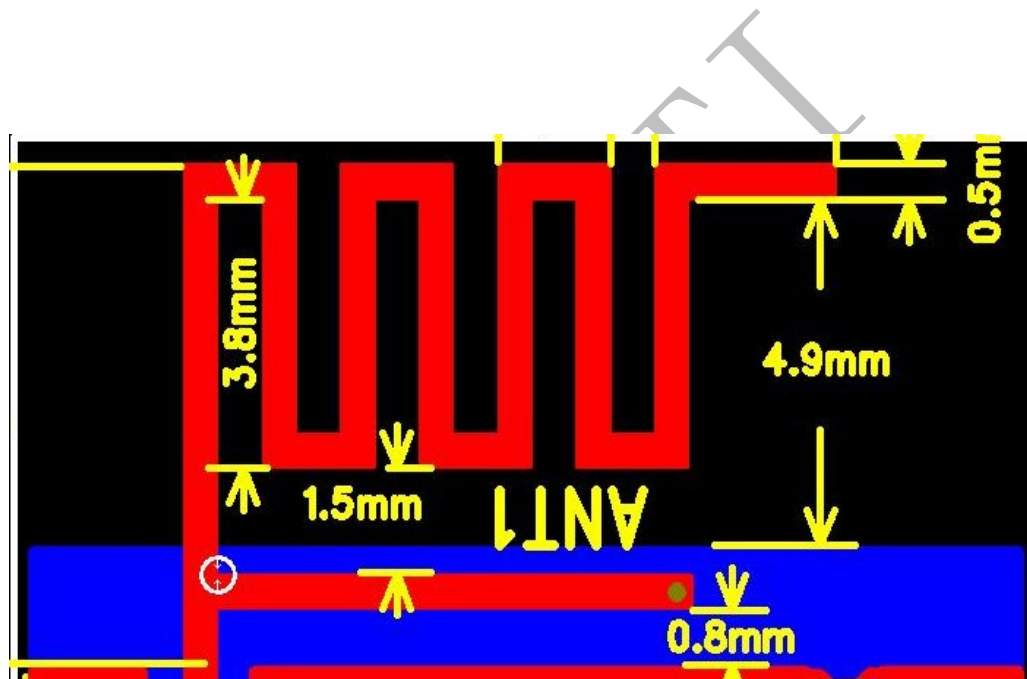


图 Normal Module Wiggle 天线

天线性能 S11 如下，工作频段覆盖整个 2.4G ISM 频段:

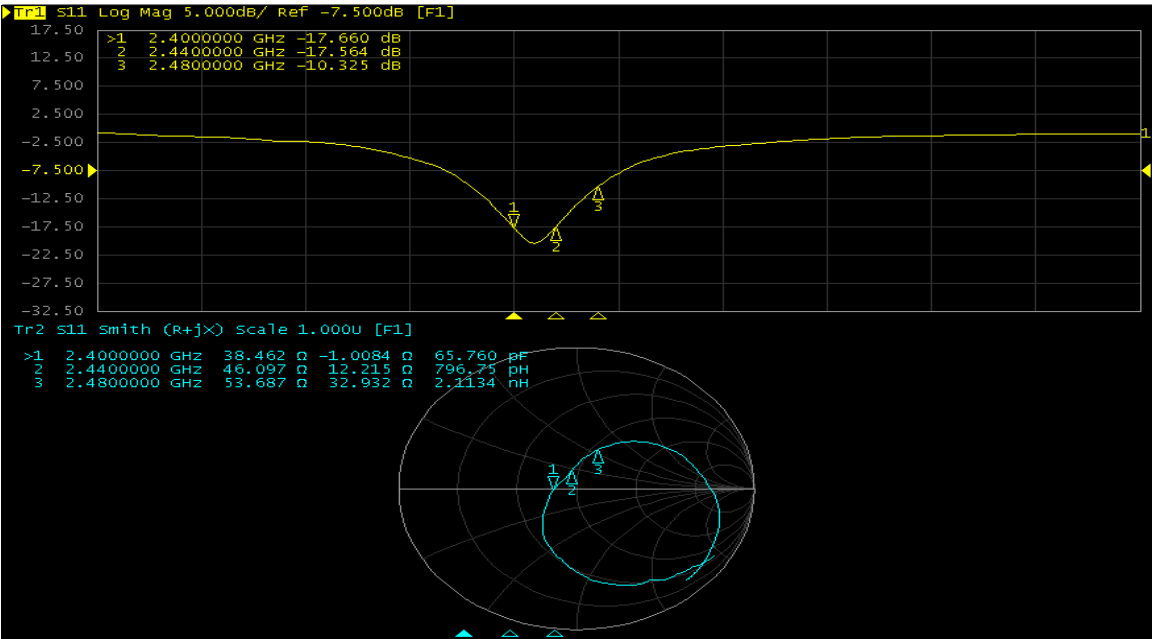
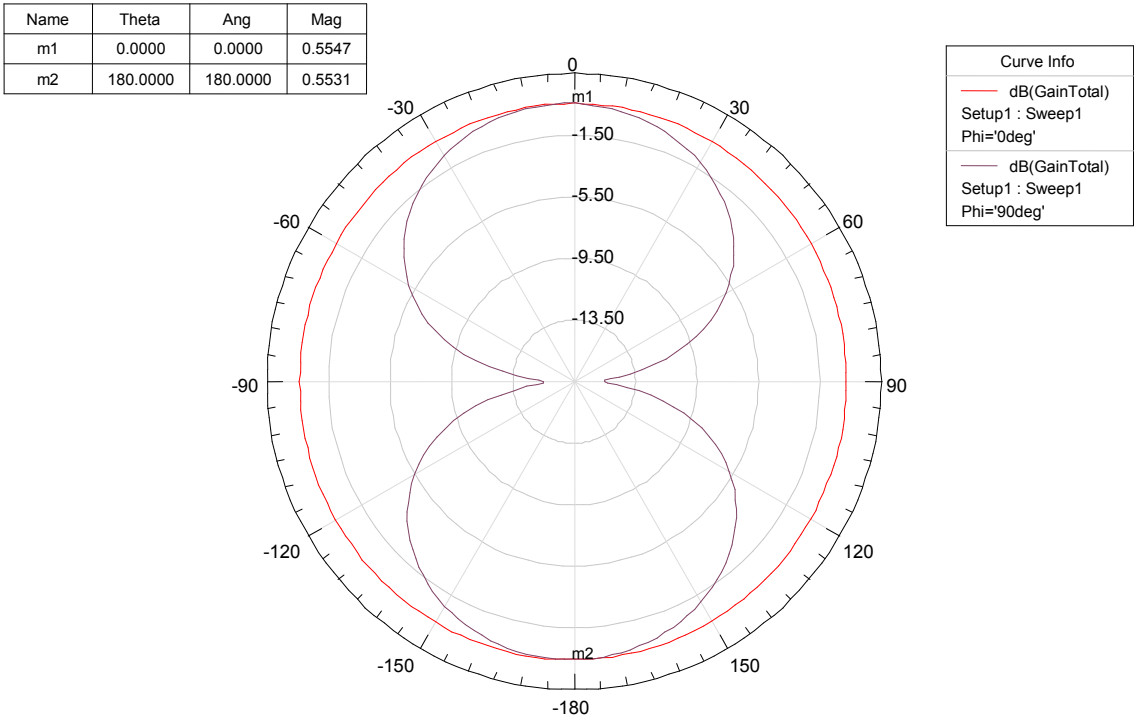


图 Normal Module Wiggle 天线 S11

2D 和 3D 增益如下



Radiation Patterns(GAIN @ 2440MHz)

Plane	XY			XZ			YZ		
Frequency(MHz)	2400	2440	2480	2400	2440	2480	2400	2440	2480
Peak Gain(dBi)	0.54	0.55	0.55	0.55	0.55	0.54	0.55	0.55	0.55

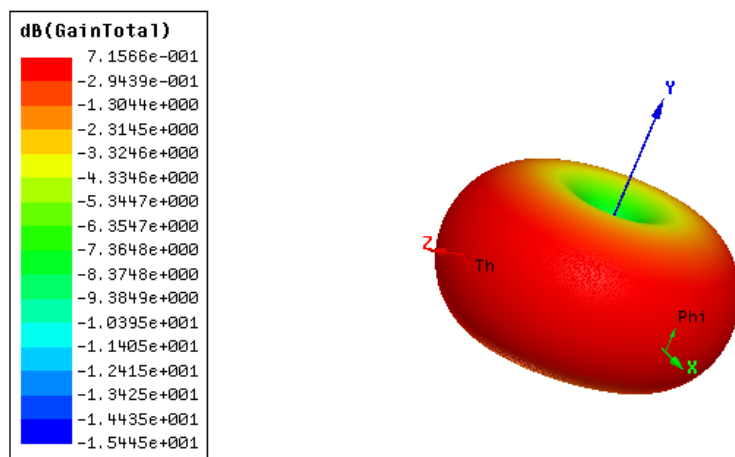


图 Normal Module Wiggle 天线增益