

Antenna specification

1、Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Lenze Design Inc

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天线具体尺寸如下图（板材为两层 FR4,板厚 0.6mm）：

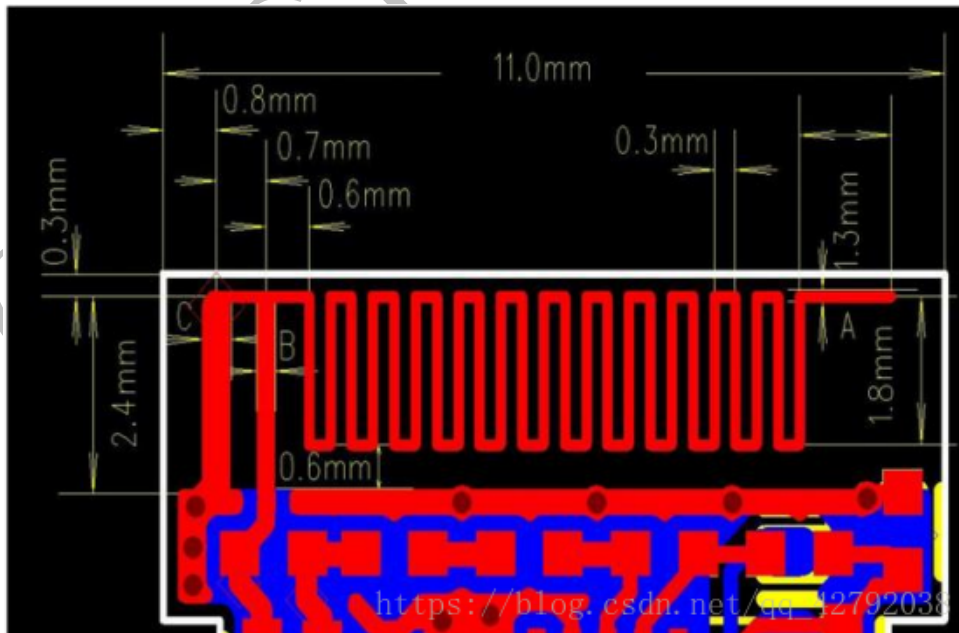


图 Nano Dongle PIFA 天线

天线性能 S11 如下，工作频段覆盖整个 2.4G ISM 频段:

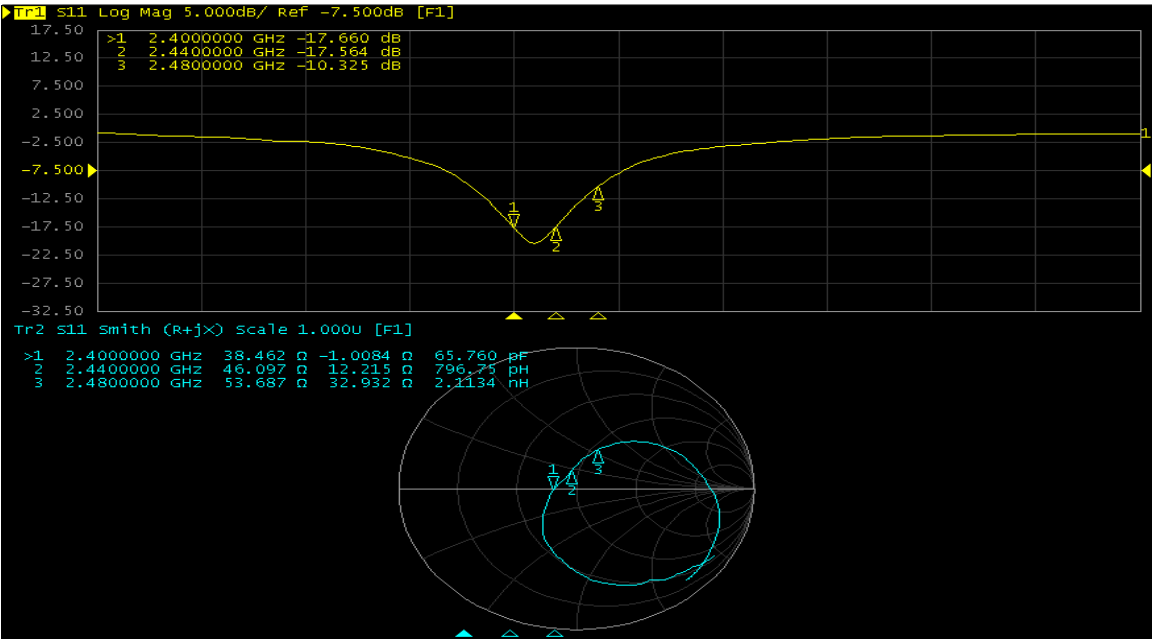
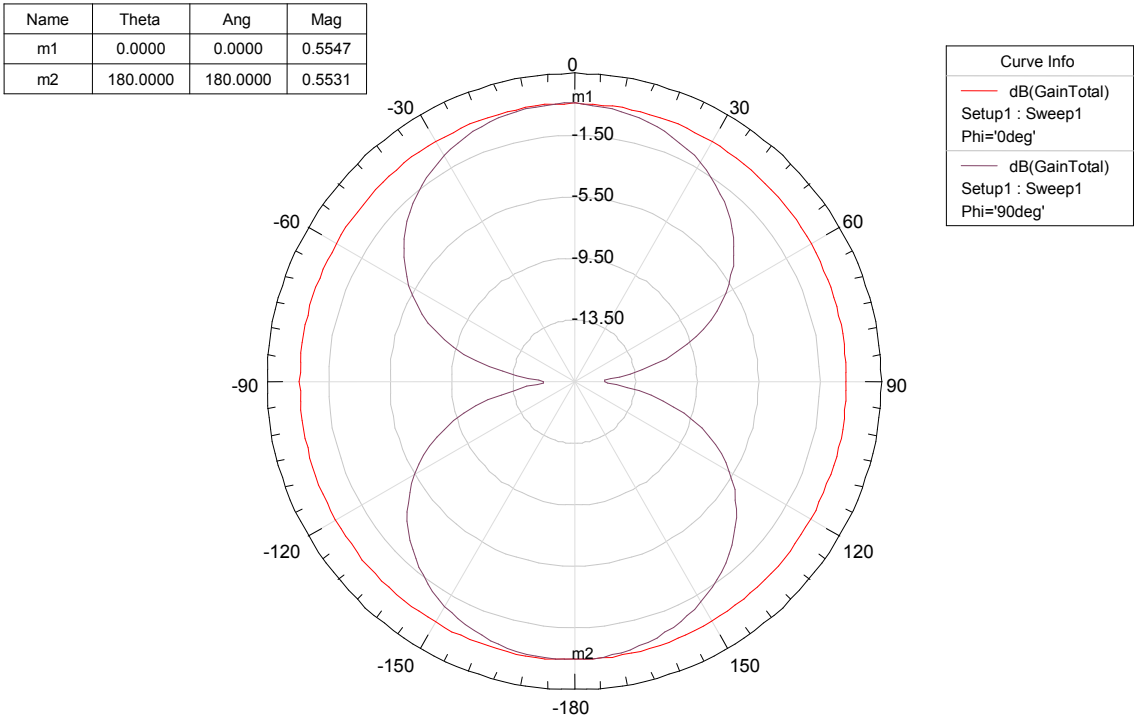


图 Normal Module Wiggle 天线 S11

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

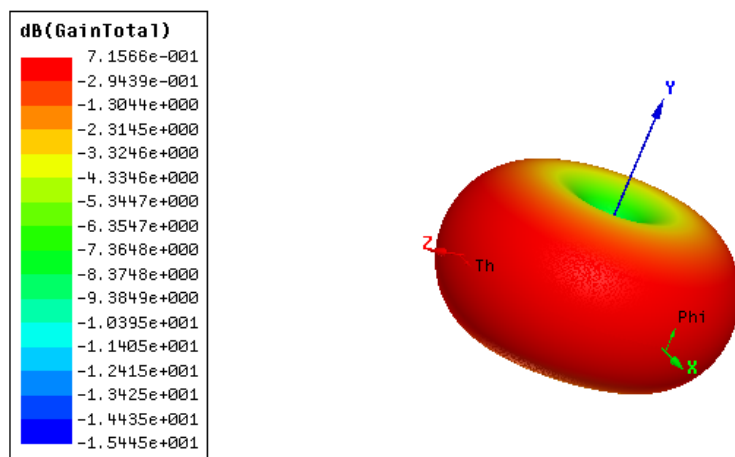


图 Normal Module Wiggle 天线增益