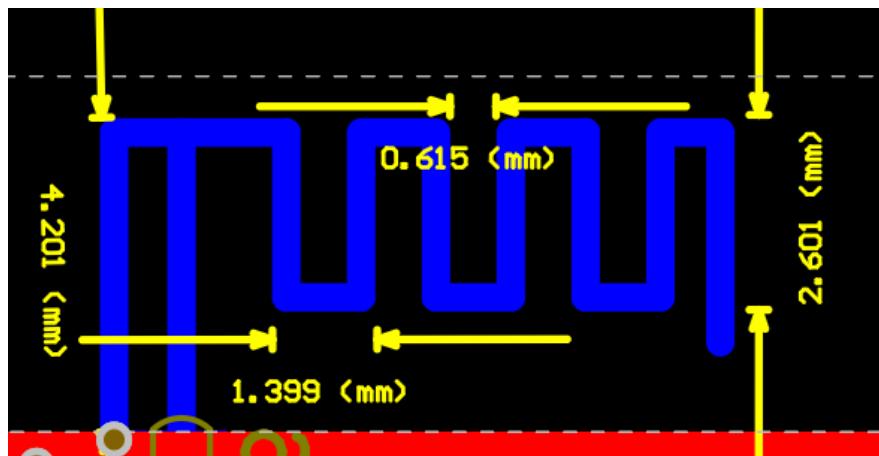


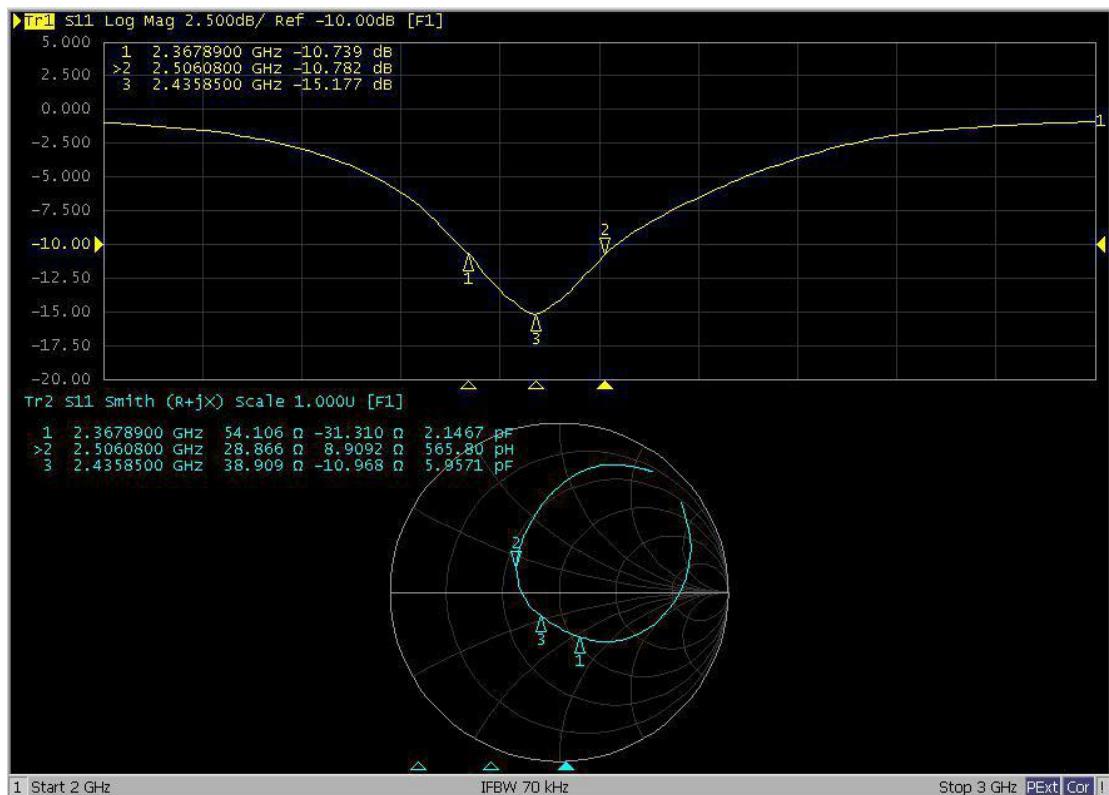
- Normal Dongle PCB antenna design specification:

This PCB antenna is used in normal dongle with whole layout board which size is 15mm\*18mm and thickness is 1.0mm (FR4)



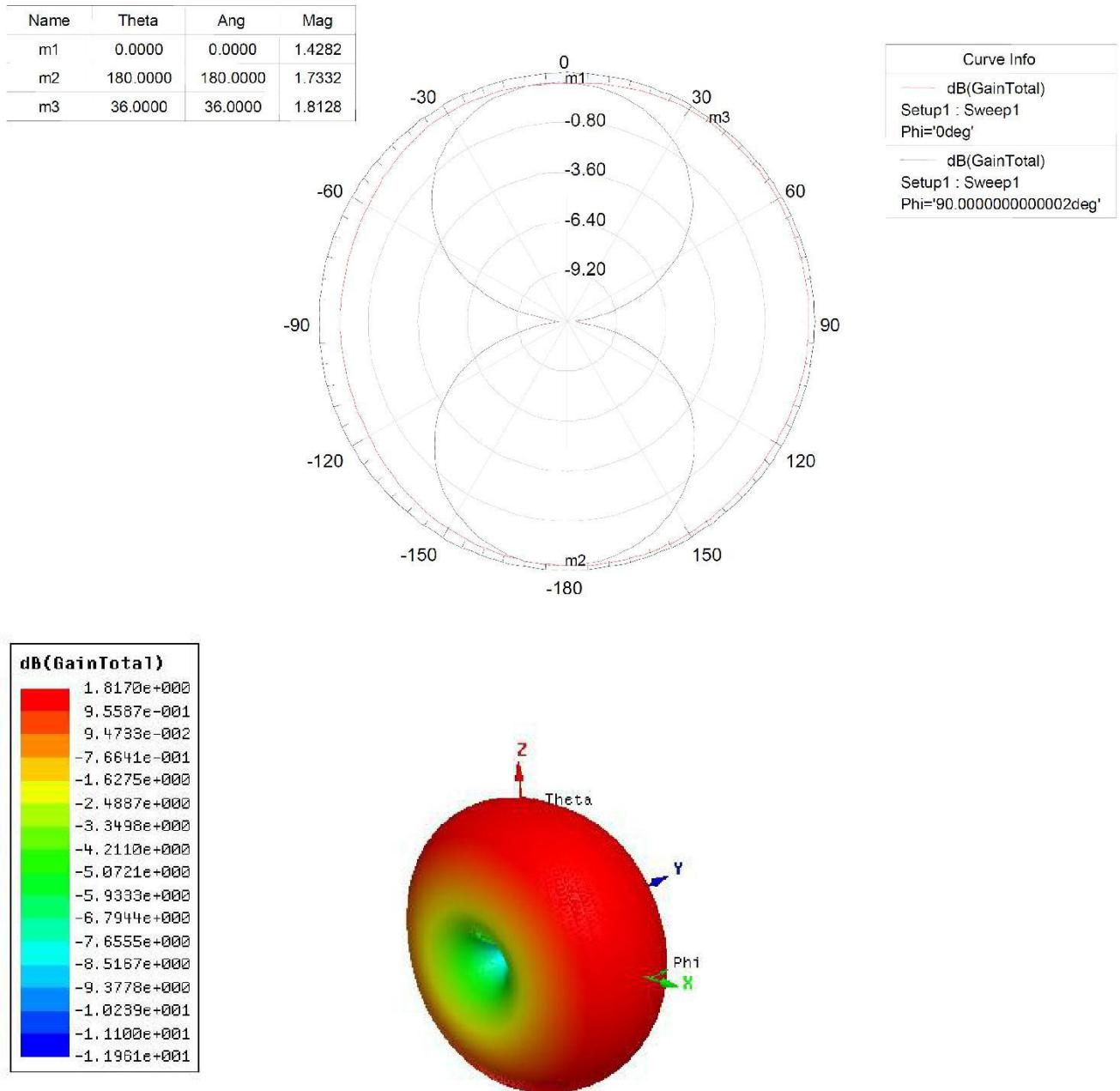
## 2-1 Normal Dongle PCB Antenna

The performance of S11 as blow show and the working frequency band cover 2.4G ISM and bandwidth is wider than nano dongle.



## 2-2 Normal Dongle PCB S11 performance

The gain of this antenna 2D and 3D as blow show and the maximum gain is about 1.5dB.



Plane	XY			XZ			YZ		
	2400	2440	2480	2400	2440	2480	2400	2440	2480
Frequency(MHz)	2400	2440	2480	2400	2440	2480	2400	2440	2480
Peak Gain(dBi)	1.70	1.73	1.71	1.79	1.81	1.78	1.71	1.73	1.72

### 2-3 Normal Dongle PCB gain

**Manufacturer: Hongtian Circuit Technology Co., Ltd.**

**Address: 38 districts of Development 2 District, Wan'an County, Ji'an City, Jiangxi Province, Hongtian circuit**