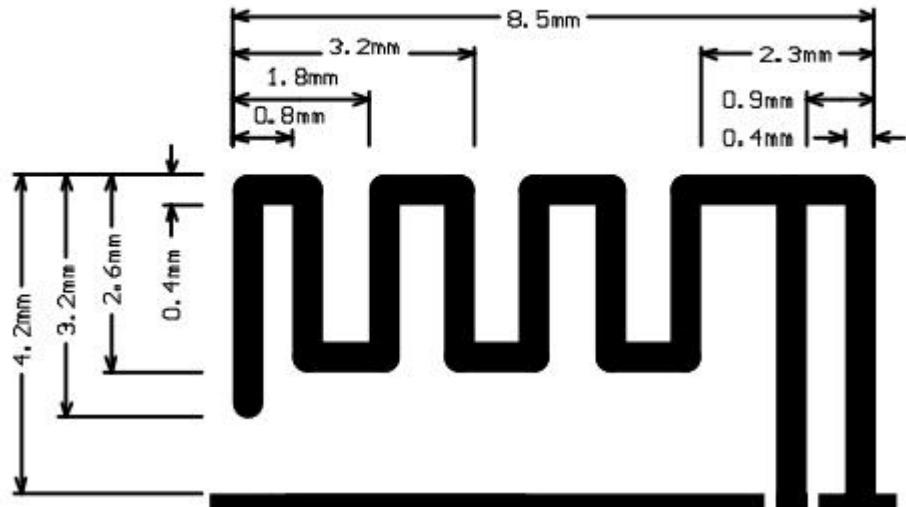


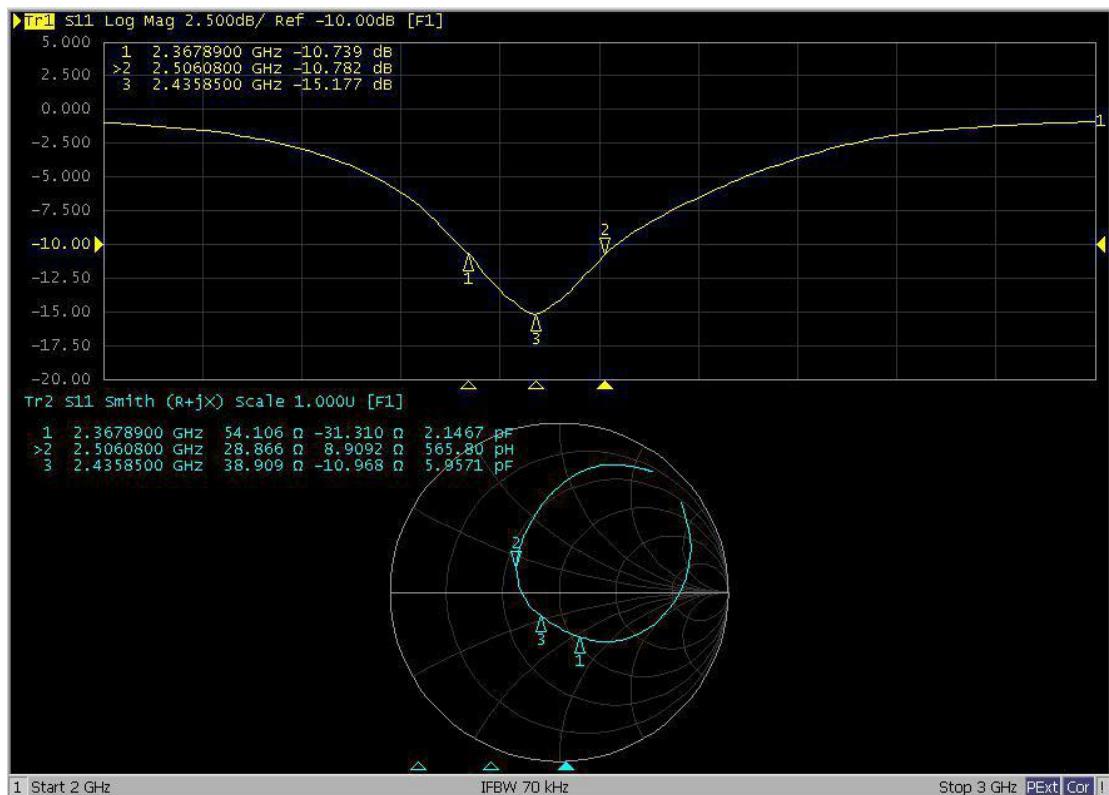
- HW-B01 PIFA antenna design specification:

This PIFA antenna is used in HW-B01 modules with whole layout board which size is 4.2mm\*8.5mm and thickness is 0.4mm (FR4)



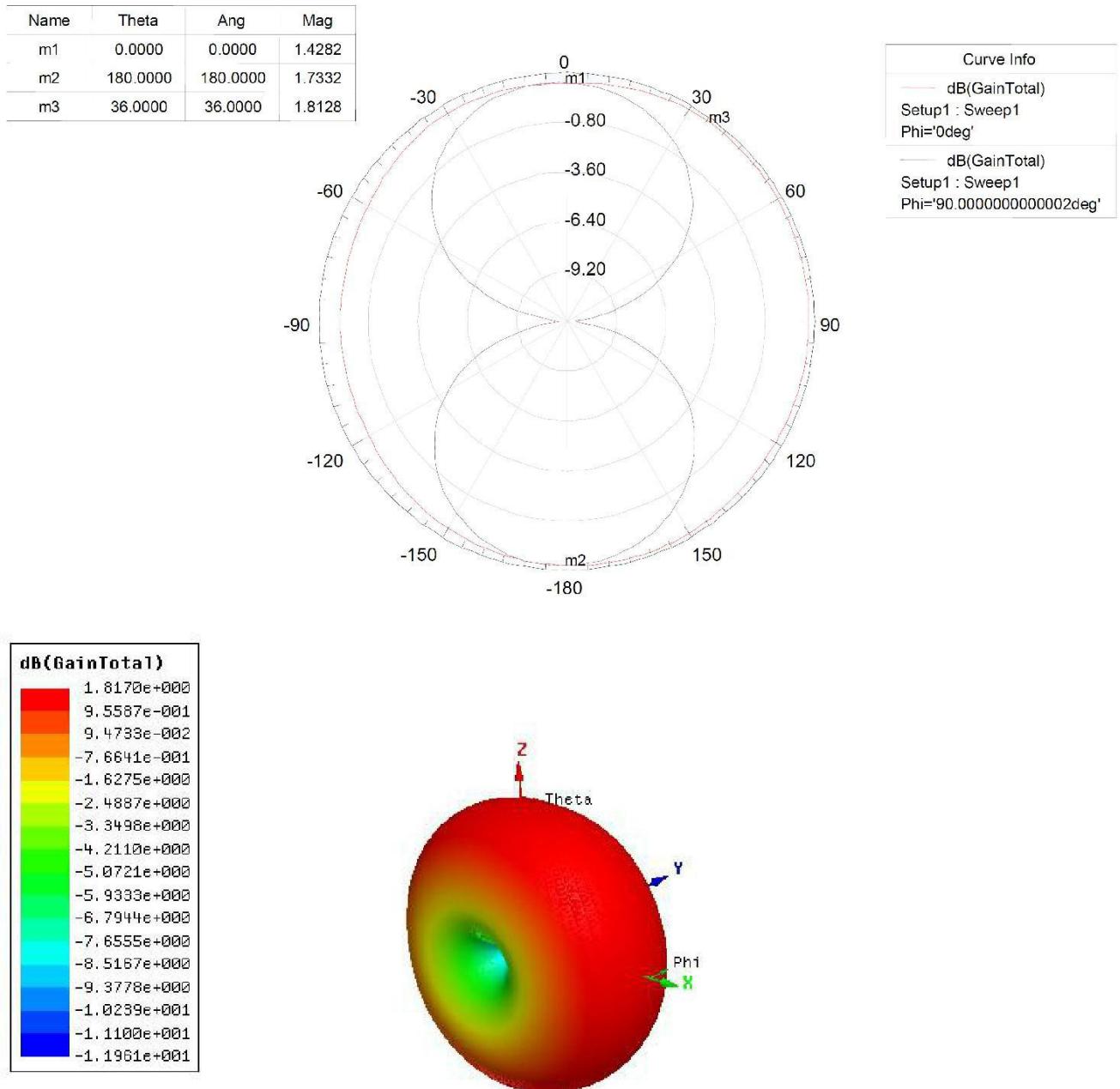
### 1 1 Normal Dongle PIFA Antenna

The performance of S11 HW-B01 as blow show and the working frequency band cover 2.4G ISM and bandwidth is wider than normal antenna.



### 1-2 Normal Dongle PIFA S11 performance

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



Radiation Patterns(GAIN @ 2440MHz)

Plane	XY			XZ			YZ		
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

1-3 Normal Dongle PIFA gain