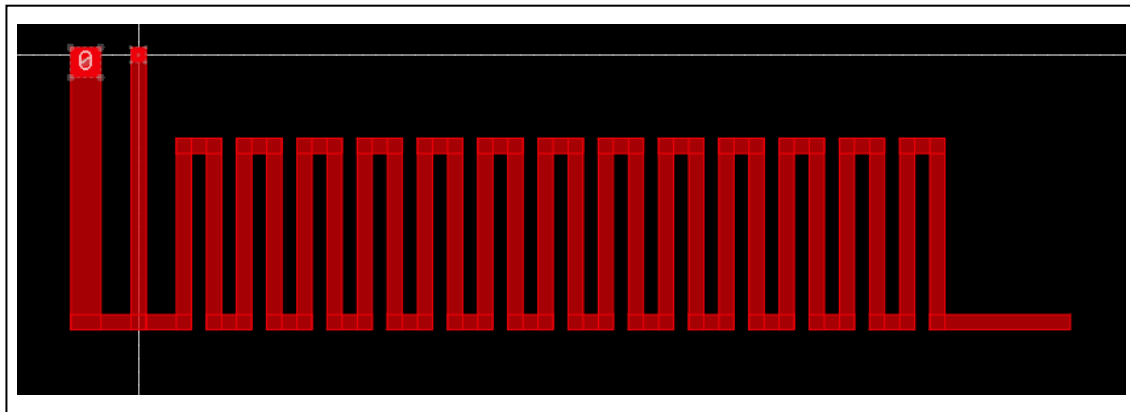


## 一. Antenna Characteristics

This report describes the physical and electrical characteristics of the Dongle antenna.

### 1.1 Antenna diagram



### 1.2 Electrical Specification

|                       |                      |
|-----------------------|----------------------|
| Part Number           | BT MODEM PCB ANTENNA |
| Dimension             | 2.651*9.950mm        |
| Material              | PCB ANTENNA          |
| Operating Temperature |                      |
| Storage Temperature   |                      |

### 1.3 Electrical Specification

|                                |                |
|--------------------------------|----------------|
| Feature                        | 2.4G BTAntenna |
| Frequency (Hz)                 | 2.4GHz         |
| VSWR                           | $\leq 1.5$     |
| Max Gain                       | 2dBi           |
| Terminal impedance( $\Omega$ ) | 50             |
| Antenna Pattern                |                |

Ant Manufacturer:ShenZhen ZhiHaiHe Tech Co., Ltd.

## 二. Measurement Results

### 2.1 Test Equipment

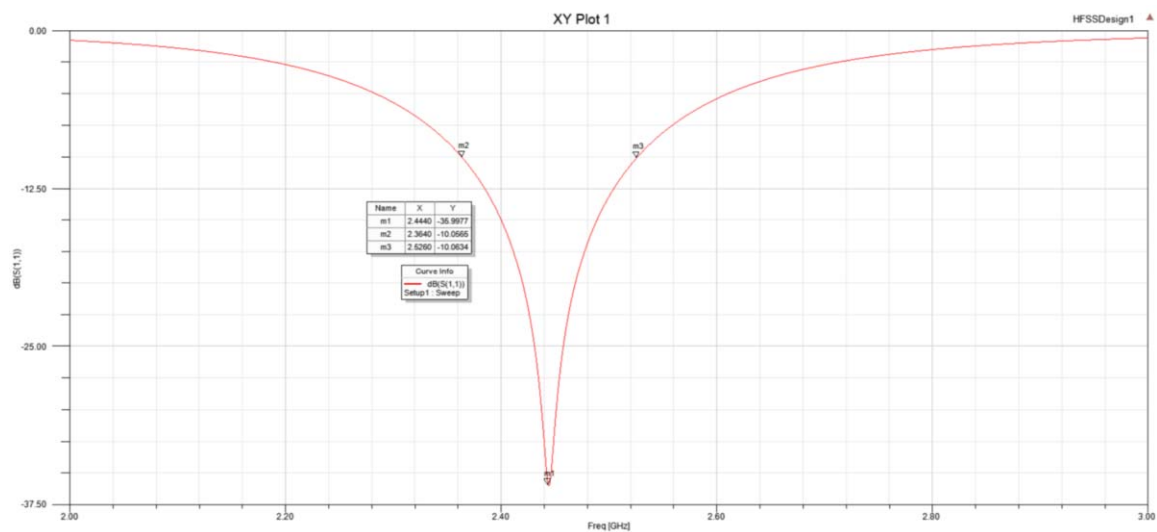
|   | Equipment                | Picture                                                                            | Test case                      |
|---|--------------------------|------------------------------------------------------------------------------------|--------------------------------|
| 1 | Microwave Chamber        |  | <b>Passive<br/>Performance</b> |
| 2 | HP8753D Network Analyzer |  |                                |

## 2.2 Measurement Results

### S parameter

10dB operating bandwidth: 156MHz

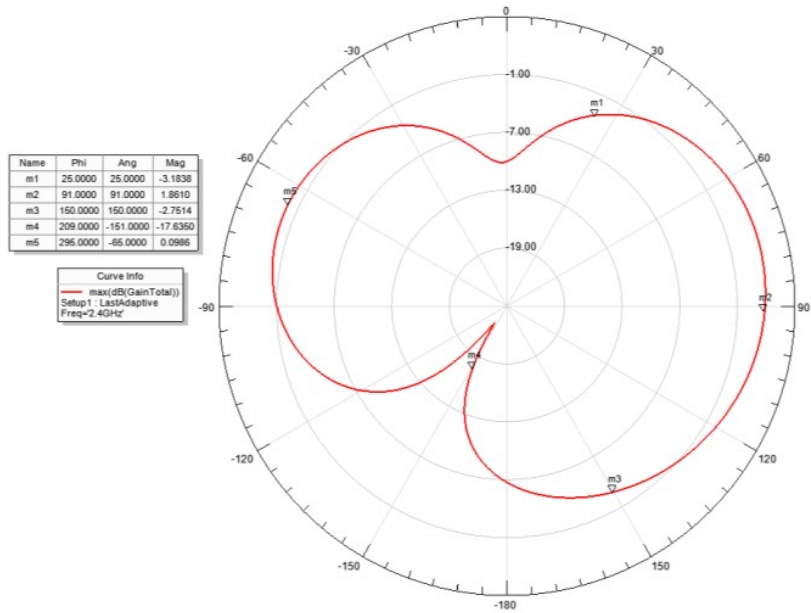
Center band S11:-36dB@2.44GHz



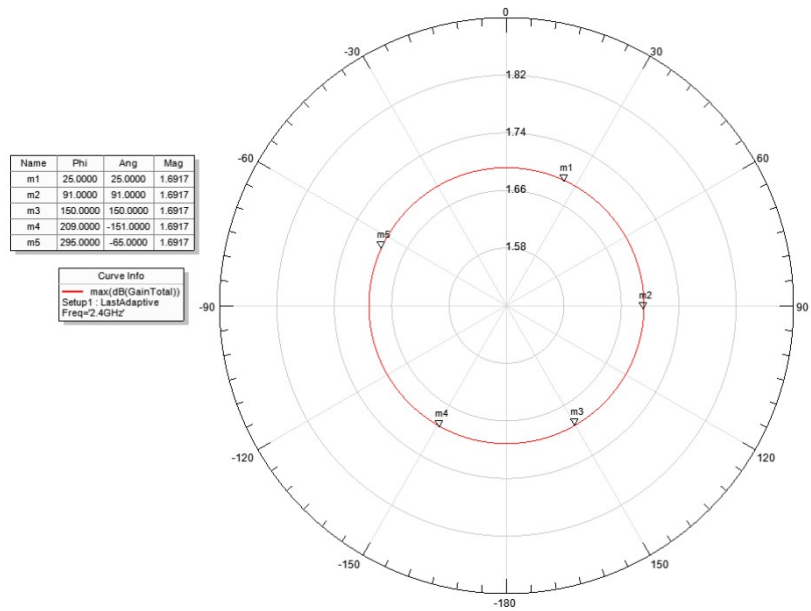
### 三. Antenna Pattern

2.4GHz:

E plane:

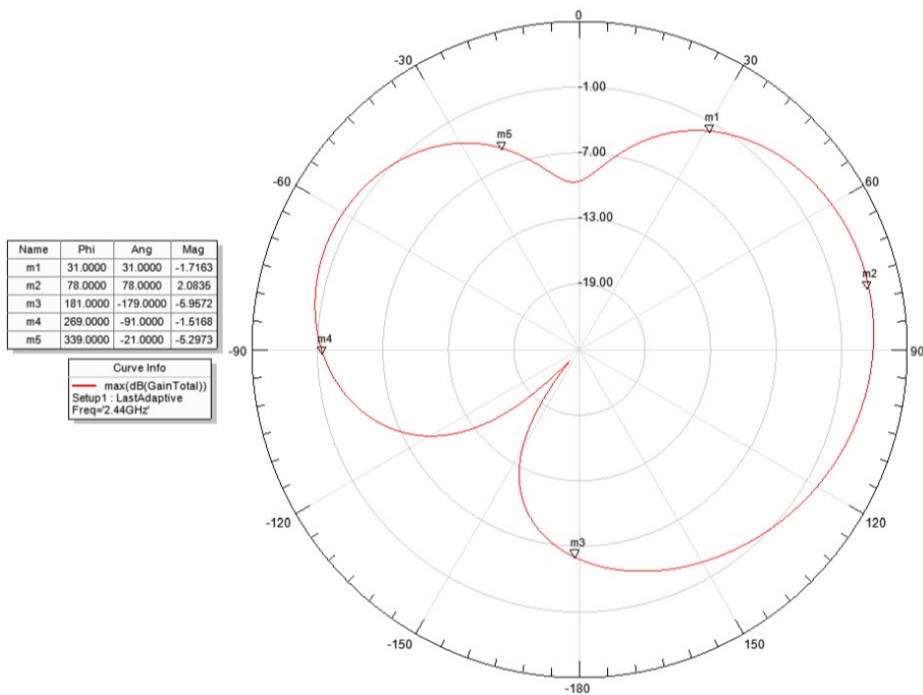


H plane:

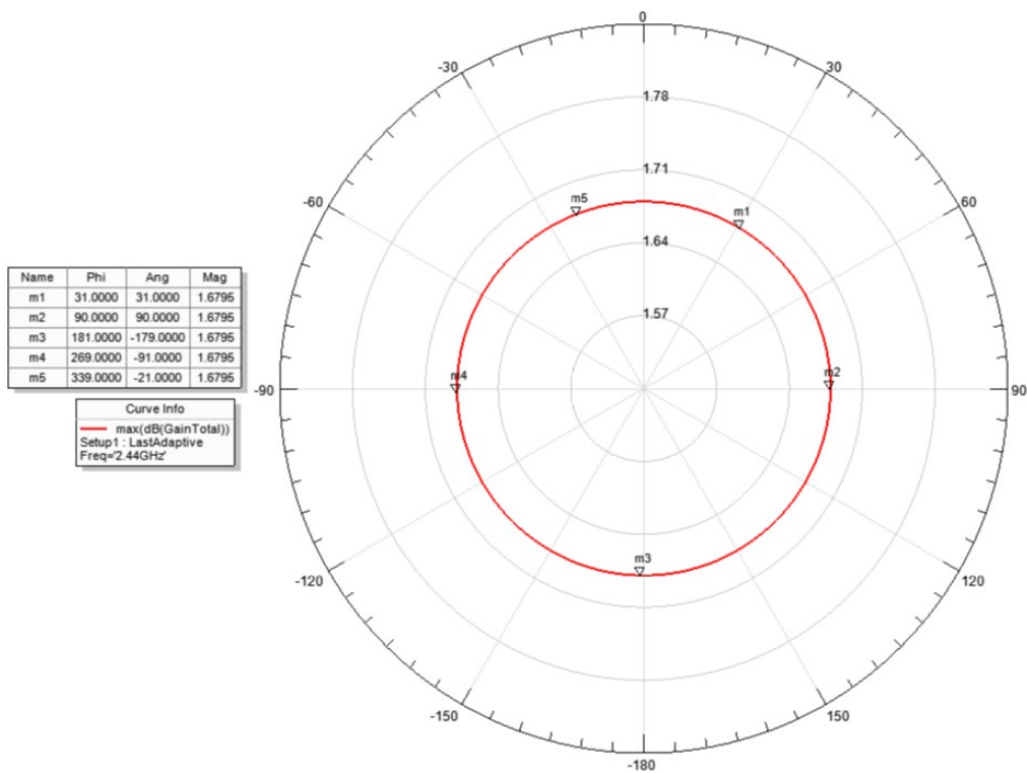


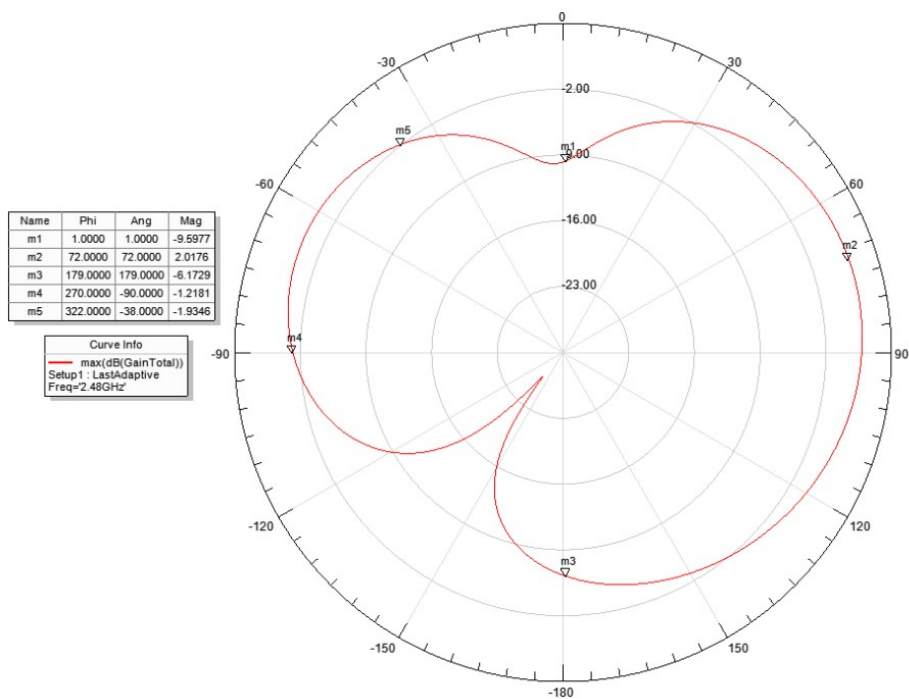
# 2.44GHz:

## E plane:



## H plane:



**2.48GHz:****E plane:****H plane:**