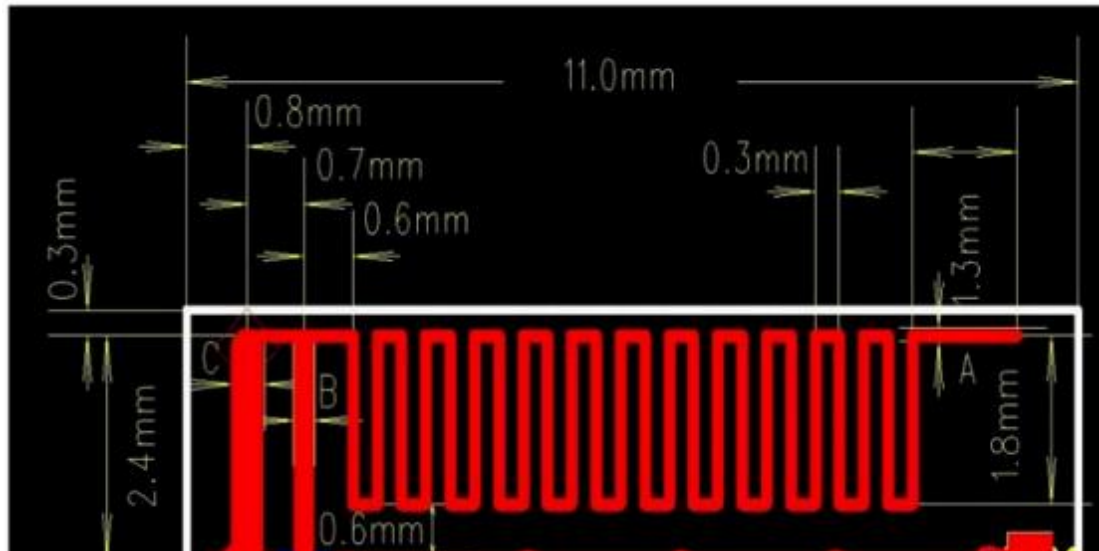


## Antenna Specification

### 1. Antenna Describe

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Antenna Manufacturer | LiteStar Electronics Technology Co.,LTD.                                                            |
| Antenna Address      | Xingchen Science & Technology Park,Lianbi Road, Wulian Industry Area Fenggang Town, Dongguan, China |
| Antenna Model        | LS-1                                                                                                |
| Antenna Type         | PCB Antenna                                                                                         |
| Antenna Gain         | 0dBi Max                                                                                            |
| Frequency Rang       | 2400-2500MHz                                                                                        |
| VSWR                 | $\leq 3$                                                                                            |
| Input Impedance      | 50 $\Omega$                                                                                         |

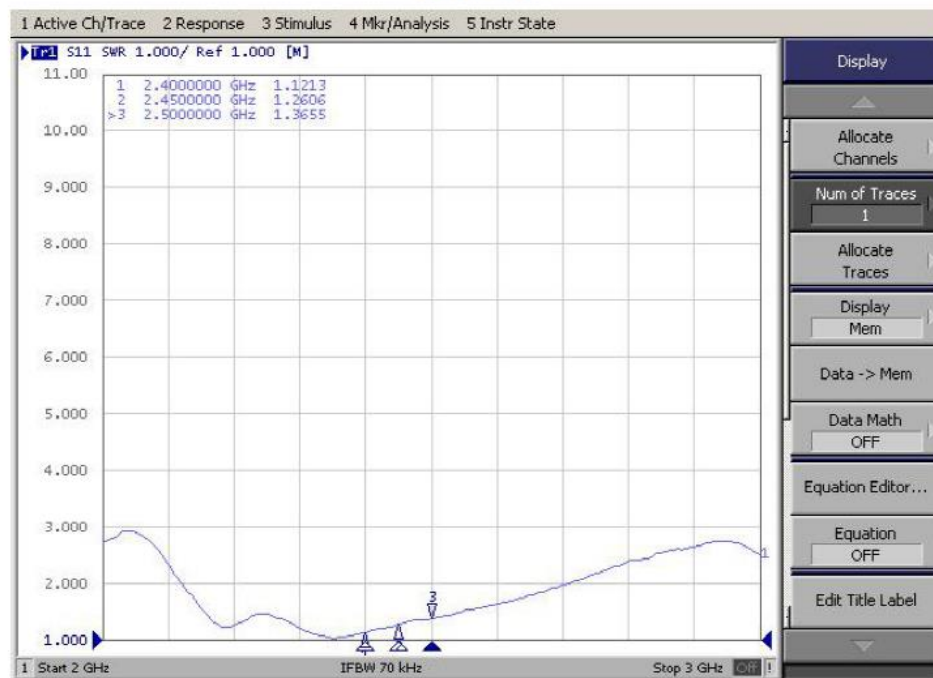
### 2. External View Drawing



### 3. Measurement Result

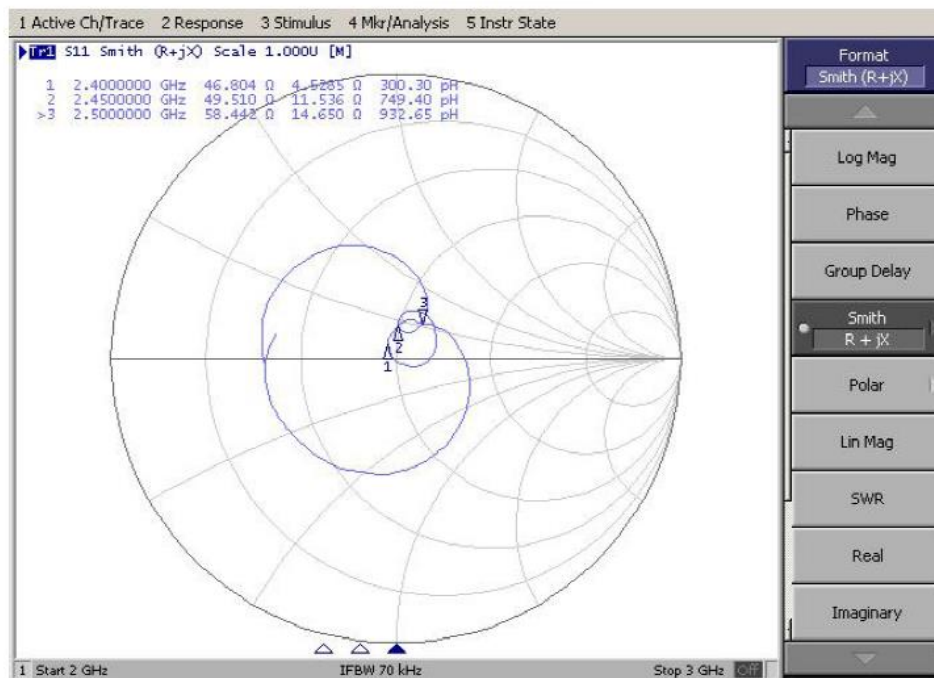
#### 3.1 Antenna performance test diagram

## SWR



#### 3.2 Smith

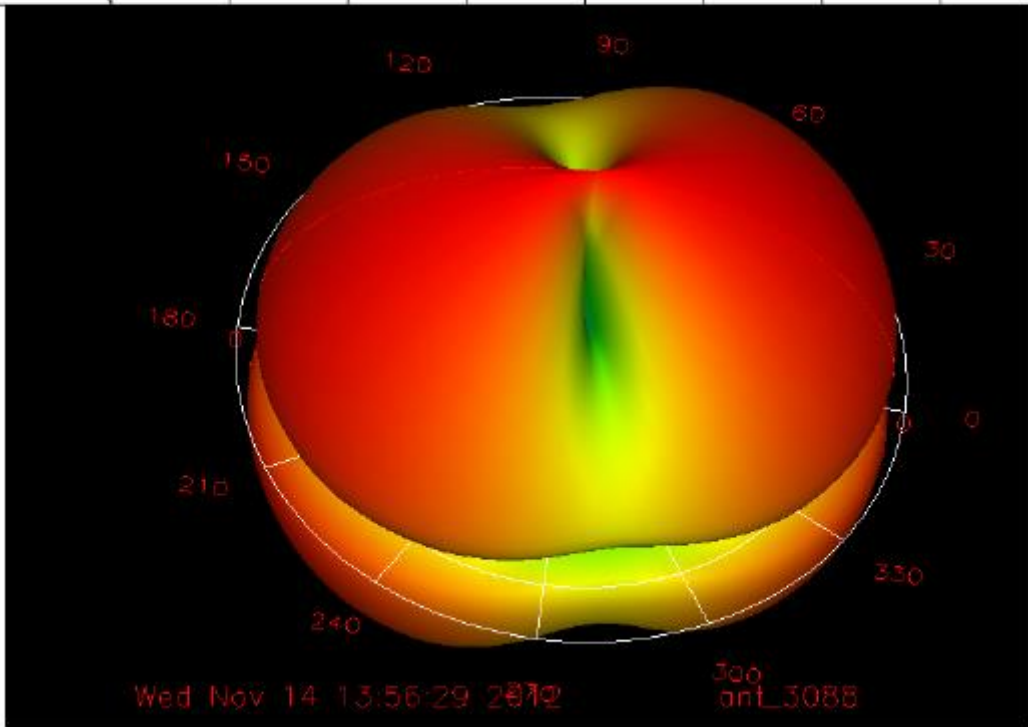
## Smith



3.3 Antenna Radiation Pattern

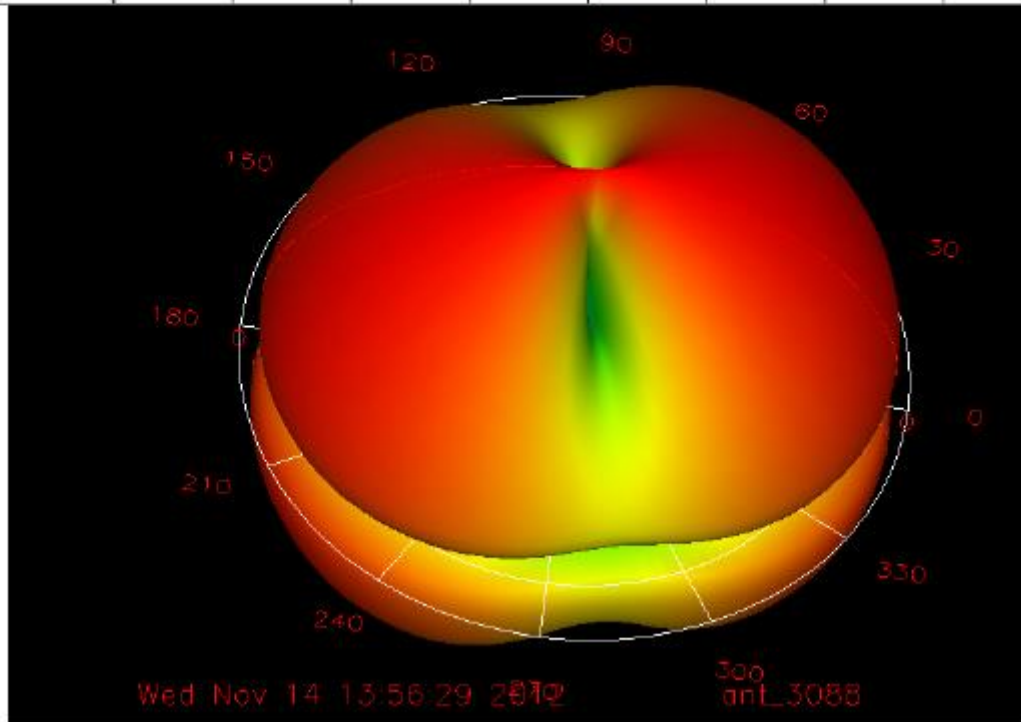
Radiation Pattern@2.4GHz

| Phi  | 0    | 45   | 90   | 135  | 180  | 235  | 270  | 315  |
|------|------|------|------|------|------|------|------|------|
| Gain | -0.1 | -0.3 | -0.8 | -0.5 | -0.2 | -0.6 | -0.8 | -0.5 |



Radiation Pattern@2.45GHz

| Phi  | 0 | 45   | 90   | 135  | 180  | 235  | 270  | 315  |
|------|---|------|------|------|------|------|------|------|
| Gain | 0 | -0.1 | -0.3 | -0.6 | -0.1 | -0.2 | -0.6 | -0.4 |



Radiation Pattern@2.5GHz

| Phi \ Gain | 0 | 45   | 90   | 135  | 180 | 235  | 270  | 315  |
|------------|---|------|------|------|-----|------|------|------|
|            | 0 | -0.1 | -0.2 | -0.5 | 0   | -0.3 | -0.6 | -0.2 |

