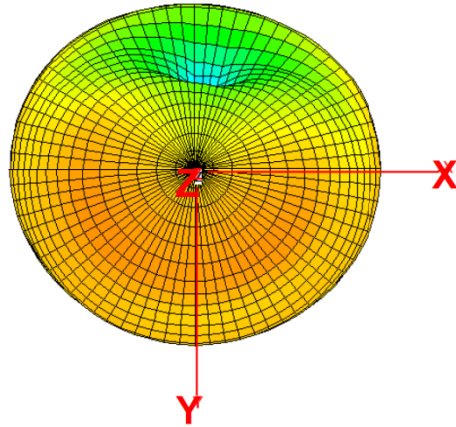


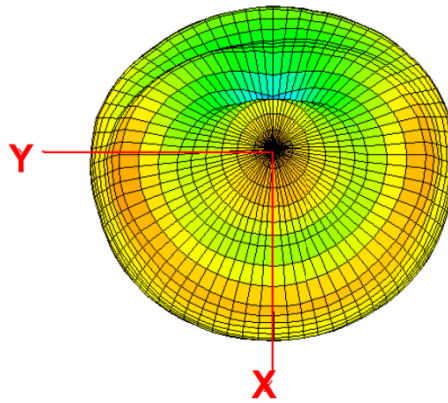
|                                  |                                                                                           |          |
|----------------------------------|-------------------------------------------------------------------------------------------|----------|
| Antenna manufacturer and address | Zhuhai Jieli Technology Co.,LTD<br><br>No.333 Kexing rode,xiangzhou district ,Zhuhai city |          |
| Antenna Model                    | 2.4G onboard antenna                                                                      |          |
| Frequency Range                  | 2400-2500MHz                                                                              |          |
| Antenna Type                     | PCB                                                                                       |          |
| Impedance( $\Omega$ )            | 50                                                                                        |          |
| Gain(dBi)                        | 3                                                                                         |          |
| Antenna Photo                    |        |          |
| Bluetooth Antenna Gain           | Frequency / MHz                                                                           | Gain/dBi |
|                                  | 2400                                                                                      | 2.63     |
|                                  | 2410                                                                                      | 2.71     |
|                                  | 2420                                                                                      | 2.77     |
|                                  | 2430                                                                                      | 2.88     |
|                                  | 2440                                                                                      | 2.96     |
|                                  | 2450                                                                                      | 3.00     |
|                                  | 2460                                                                                      | 2.75     |
|                                  | 2470                                                                                      | 2.89     |
|                                  | 2480                                                                                      | 2.04     |
|                                  | 2490                                                                                      | 2.34     |
|                                  | 2500                                                                                      | 2.32     |

### 3D Gain Pattern @ 2450 MHz

Azimuth = -180.0  
Elevation = 0.0  
Roll = 0.0



Azimuth = -180.0  
Elevation = -5.1  
Roll = 180.0



Azimuth = 0.0  
Elevation = -90.0  
Roll = 180.0

