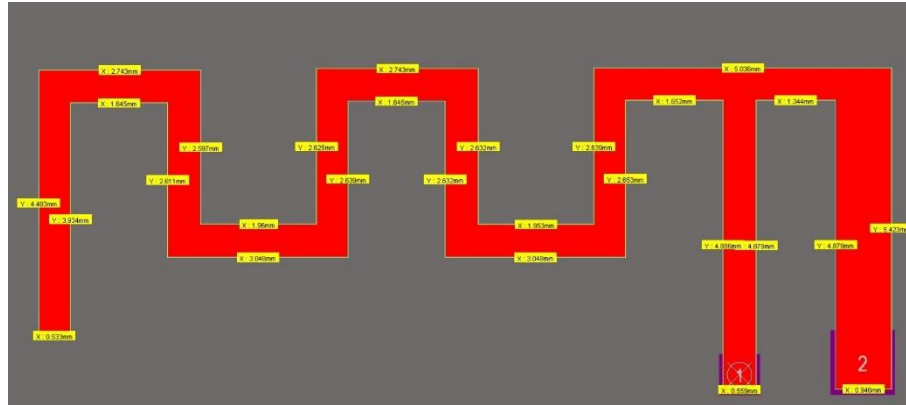


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## 2. Antenna detail Size

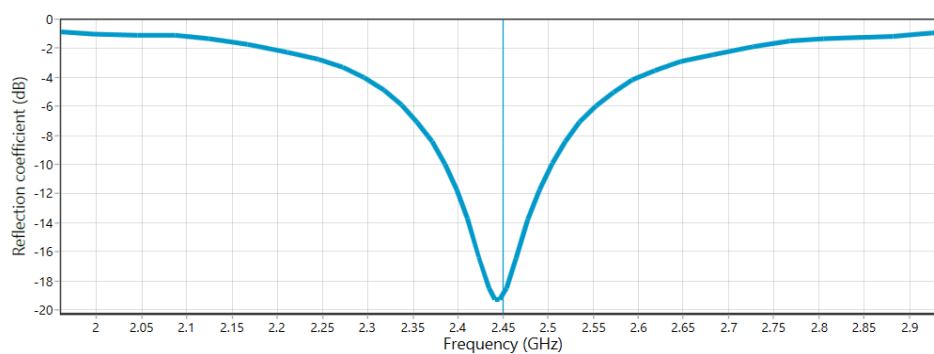


### Antenna Size

### 3. Antenna S parameter

The Bluetooth antenna operates at 2402-2480MHz and resonates in this band. The following table shows the main parameters of the antenna.

|                 |                  |
|-----------------|------------------|
| Frequency (MHz) | 2400-2500MHz     |
| Impedance       | 50 Ohm Nominal   |
| Return Loss     | -19.2 dB Max     |
| Radiation       | Omni-Directional |
| Gain (Peak)     | 1.83dBi          |

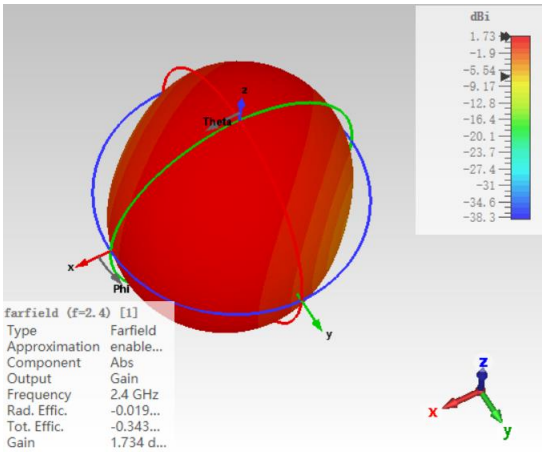


## Antenna S parameter

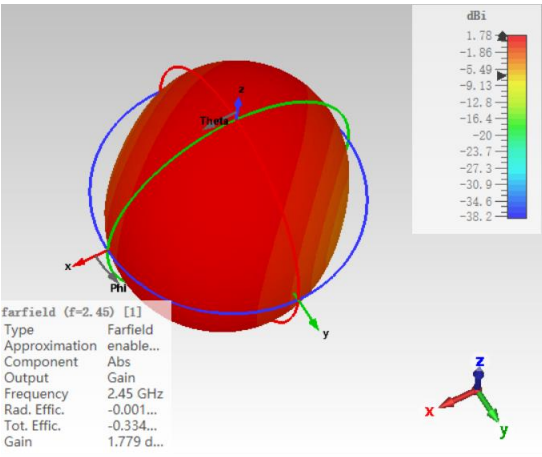
#### 4、 Antenna radiation performances:

| Frequency | Gain (dBi) | Test Efficiency (%) |
|-----------|------------|---------------------|
| 2400MHz   | 1.73       | 40                  |
| 2420MHz   | 1.78       | 38                  |
| 2440MHz   | 1.79       | 38                  |
| 2460MHz   | 1.79       | 38                  |
| 2480MHz   | 1.79       | 38                  |
| 2500MHz   | 1.83       | 38                  |

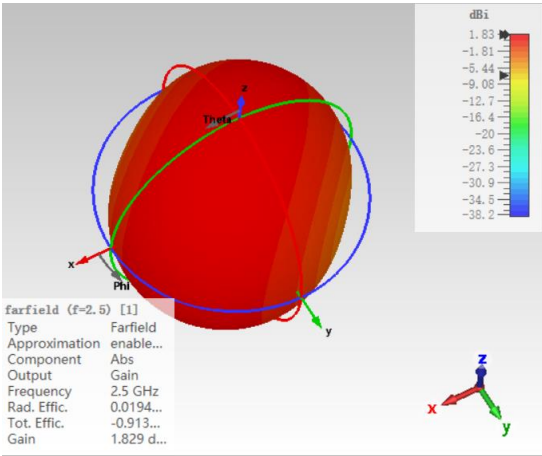
5. Antenna Simulation radiation Pattern



Radiation pattern of 2.4GHz



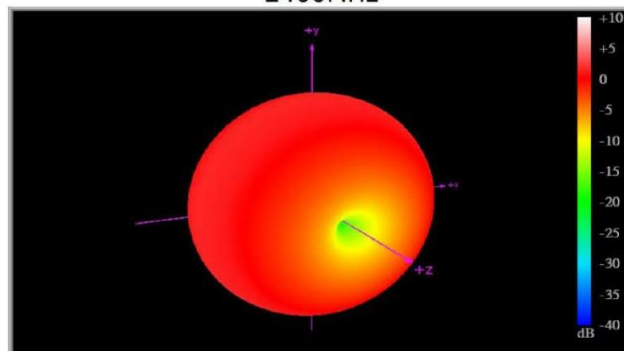
Radiation pattern of 2.45GHz



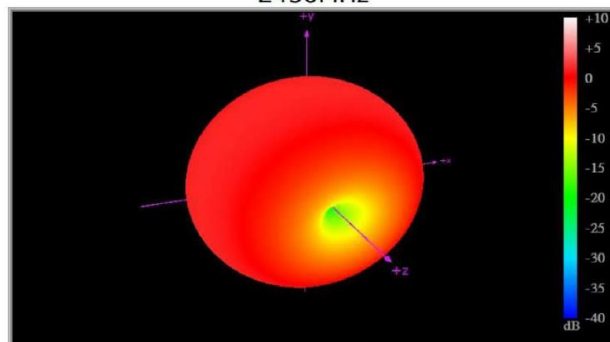
Radiation pattern of 2.50GHz

6. Antenna test 3D Radiation Pattern (Free Space)

2400MHz



2450MHz



2500MHz

