

## Product specification

### Quick Reference

|                           | Antenna model information      |  |
|---------------------------|--------------------------------|--|
| Antenna Type              | PCB                            |  |
| Frequency                 | 2.44GHz                        |  |
| Ant. Port Input Pwr.(dBm) | 0(Typ.BT class 2 output power) |  |
| Tot.Rad.Pwr.(dBm)         | -5.8(Input pwr-loss pwr)       |  |
| Peak EIRP(dBm)            | -2.9                           |  |
| Directivity(dBi)          | 1(all direction antenna)       |  |
| Efficiency(dB)            | -5.8(26.03%)                   |  |
| Gain(dBi)                 | -2.9(Peak Gain XY-plane)       |  |
| Maximum Power(dBm)        | -2.9(XY-plane)                 |  |
| Minimum Power(dBm)        | -7.9(XY-plane)                 |  |
| Average Power(dBm)        | -4.5(XY-plane)                 |  |
| Max/Min Ratio(dB)         | 5(XY-plane)                    |  |
| Max/Avg Ratio(dB)         | 1.6(XY-plane)                  |  |
| Min/Avg Ratio(dB)         | -3.4(XY-plane)                 |  |
| Average Gain(dB)          | -4.5(Avg Gain XY-plane)        |  |

### Antenna module & Size

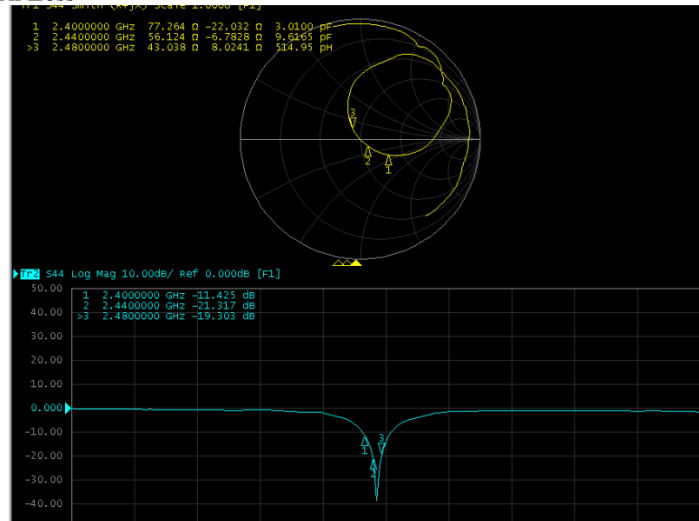


### Antenna Gain

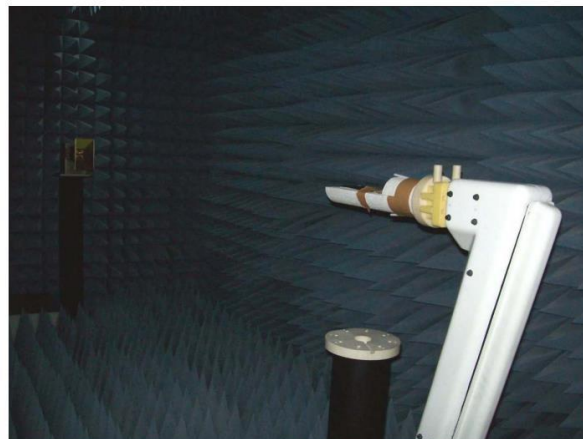
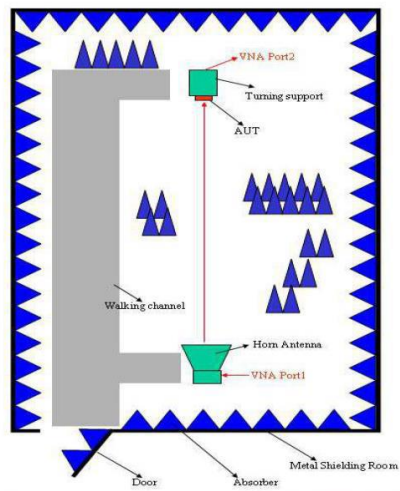
Gain Table

| Unit in dB@ 2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|---------------------|----------|------|----------|------|----------|------|------------|
|                     | Peak     | Avg  | Peak     | Avg  | Peak     | Avg  |            |
|                     | -4.5     | -2.9 | -3.7     | -6.9 | -2.9     | -6.1 |            |
|                     |          |      |          |      |          |      | 26.03%     |

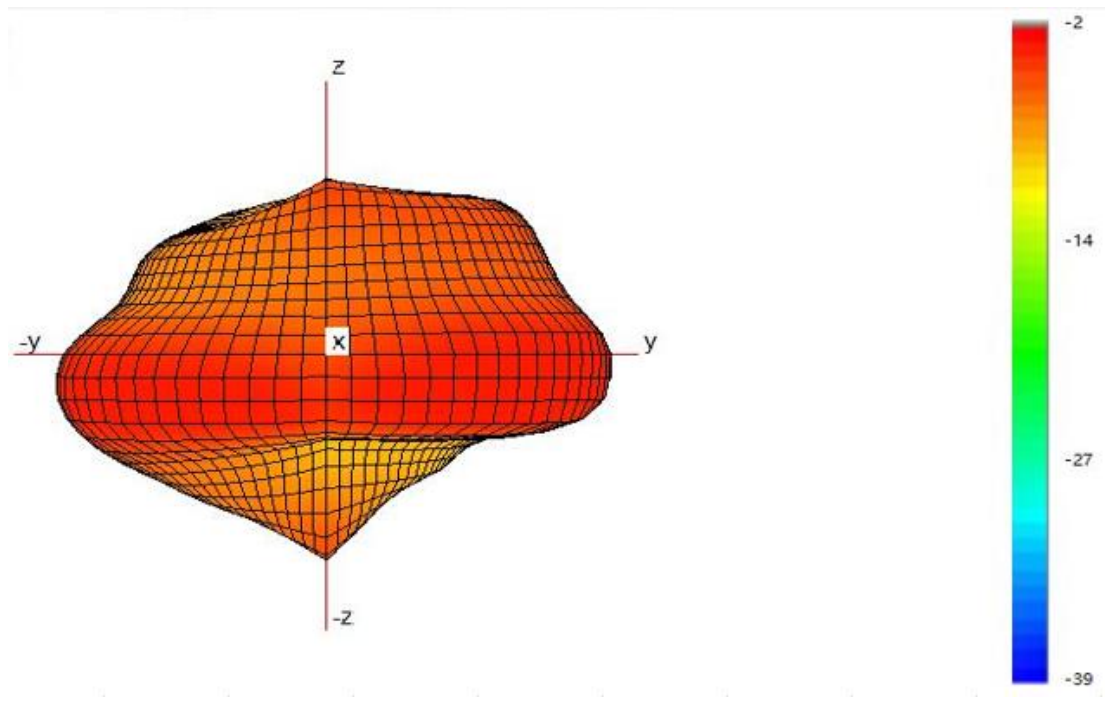
## Return Loss



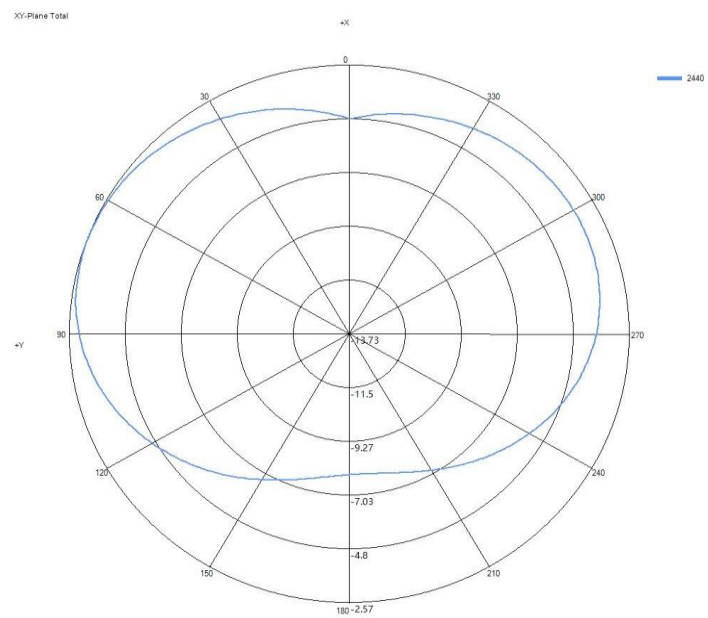
## The Environment of Antenna Radiation Pattern



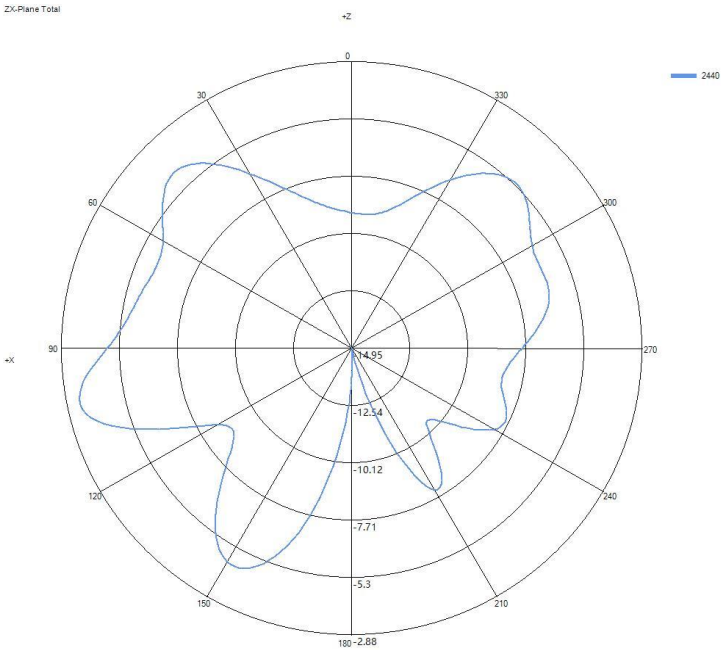
## 3D radiation pattern diagram



## XY-plane



XZ-plane



YZ-plane

