

# Antenna Specification

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## EUT Description

|                 |                                                |
|-----------------|------------------------------------------------|
| Test Item       | Antenna gain; Radiation pattern and efficiency |
| Antenna Type    | FPC Antenna                                    |
| Frequency Range | 2400MHz-2500MHz                                |

# 1 Test Data

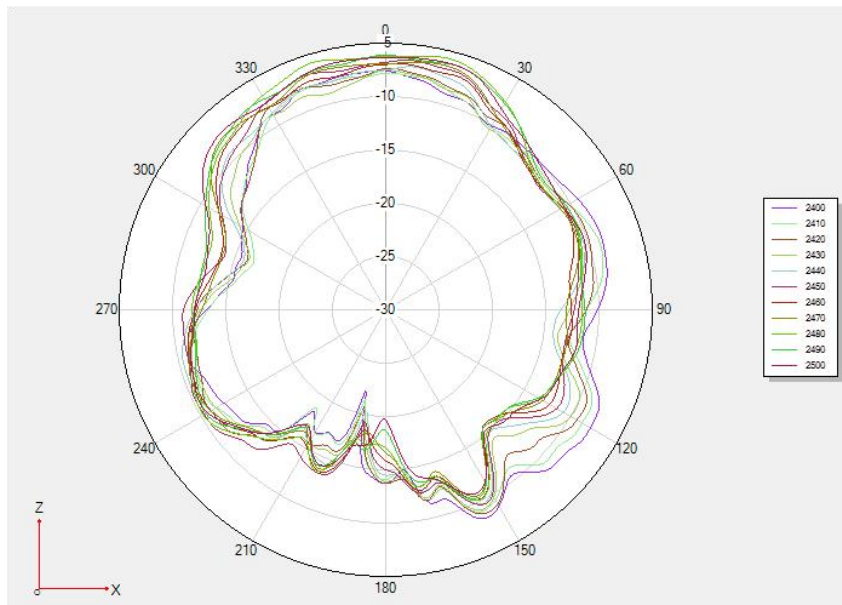
## 1.1 Typical free space efficiency and gain

| Frequency/MHz | Efficiency / dB | Efficiency / % | Max Gain/dBi | Avg Gain/dBi |
|---------------|-----------------|----------------|--------------|--------------|
| 2400          | -9.74           | 10.62          | -2.92        | -9.74        |
| 2410          | -10.07          | 9.84           | -2.94        | -10.07       |
| 2420          | -10.22          | 9.51           | -2.93        | -10.22       |
| 2430          | -10.24          | 9.46           | -4.06        | -10.24       |
| 2440          | -10.19          | 9.57           | -4.84        | -10.19       |
| 2450          | -10.18          | 9.59           | -3.77        | -10.18       |
| 2460          | -10.24          | 9.46           | -4.21        | -10.24       |
| 2470          | -10.08          | 9.82           | -4.06        | -10.08       |
| 2480          | -9.96           | 10.09          | -2.94        | -9.96        |
| 2490          | -9.88           | 10.28          | -3.13        | -9.88        |
| 2500          | -9.67           | 10.79          | -3.47        | -9.67        |

## 1.2 Typical free space radiation pattern

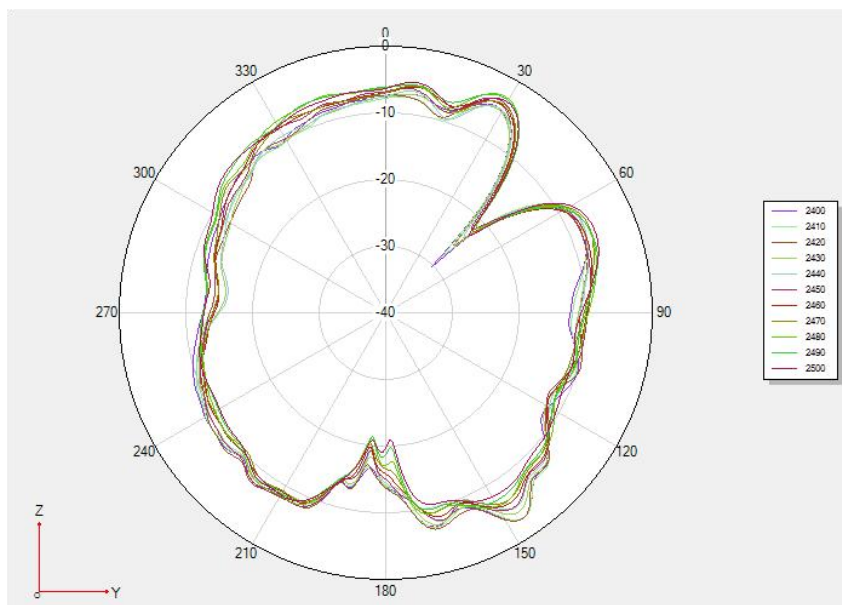
(1) X-Z Plane:

V  $\Phi=0$



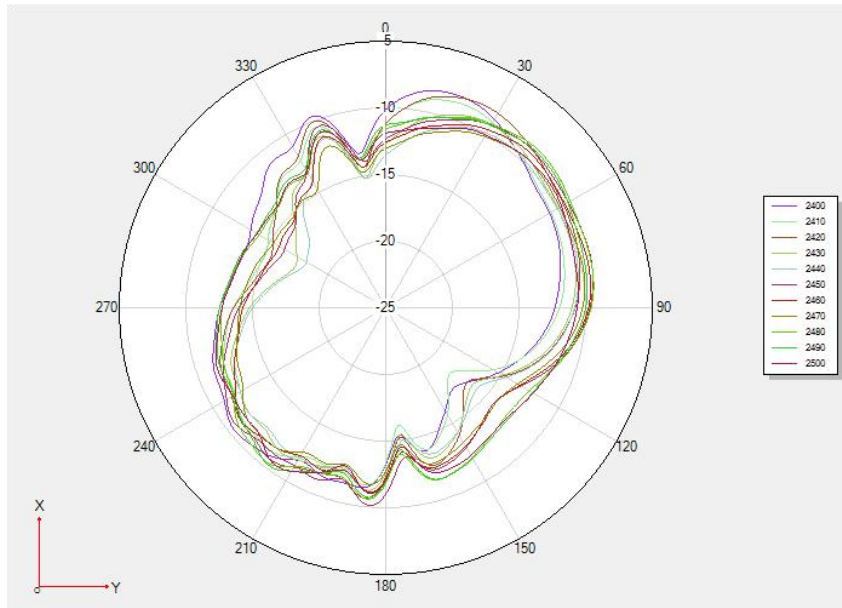
(2) Y-Z Plane:

V  $\Phi=90$



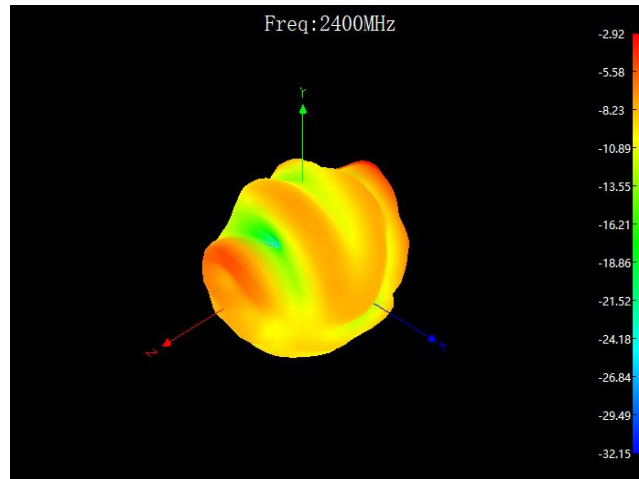
(3) X-Y Plane:

H  $\Theta=90$

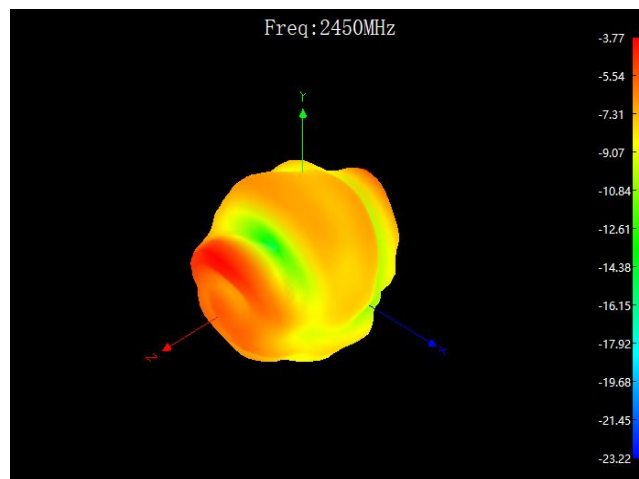


### 1.3 3D Pattern

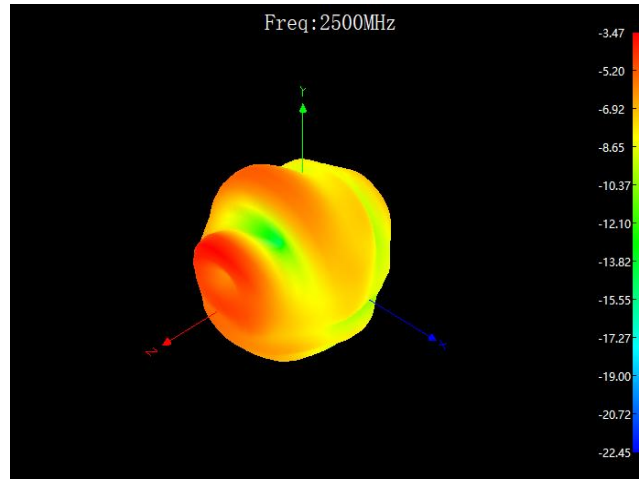
3D Pattern for 2400MHz



3D Pattern for 2450MHz



### 3D Pattern for 2500MHz



## 2 EUT appearance

