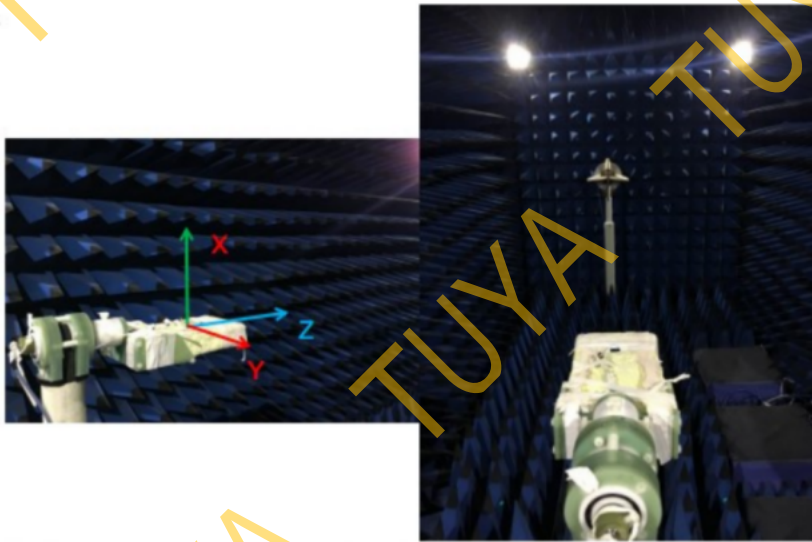


## Antenna Report

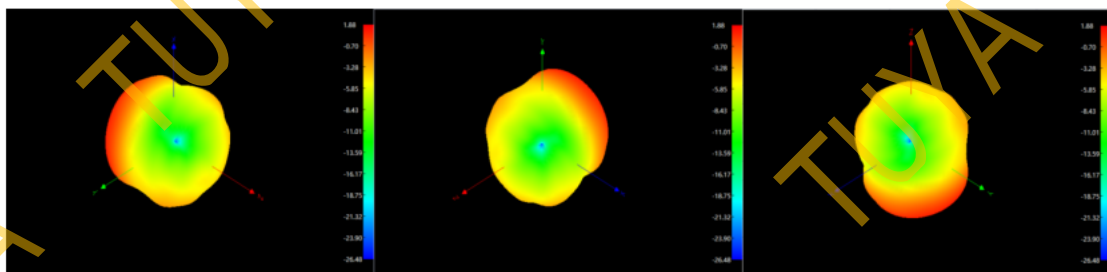
### 1. Antenna Information

|              |                                               |
|--------------|-----------------------------------------------|
| Manufacturer | Hangzhou Tuya Information Technology Co., Ltd |
| Model        | PCB Antenna for module R3L                    |
| Type         | PCB onBoard                                   |
| PK Gain      | 1.88dBi                                       |

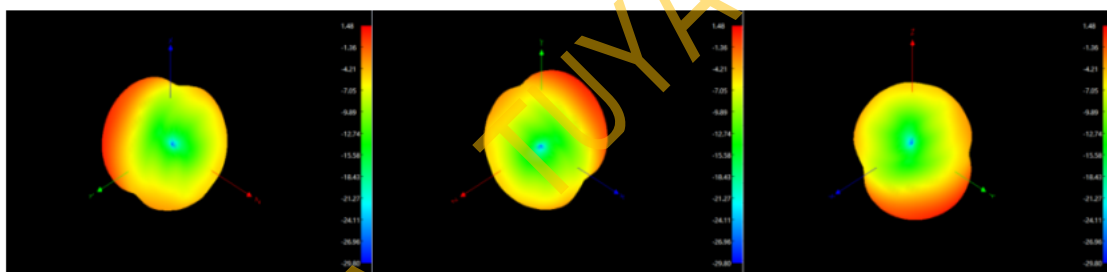
### 2. Radiation Pattern



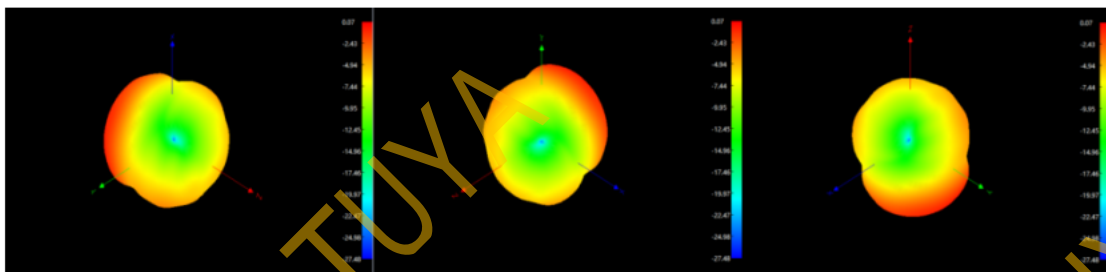
2400MHz



2450MHz



2500MHz



### 3. Gain table of Antenna

| Frequency / MHz | Gain/ dB | Efficiency / % |
|-----------------|----------|----------------|
| 2400            | 1.88     | 46.24          |
| 2410            | 1.8      | 45.92          |
| 2420            | 1.56     | 44.57          |
| 2430            | 1.48     | 44.26          |
| 2440            | 1.6      | 44.77          |
| 2450            | 1.48     | 44.26          |
| 2460            | 1.29     | 41.5           |
| 2470            | 1.04     | 37.84          |
| 2480            | 0.59     | 35.32          |
| 2490            | 0.31     | 32.66          |
| 2500            | 0.07     | 31.7           |

