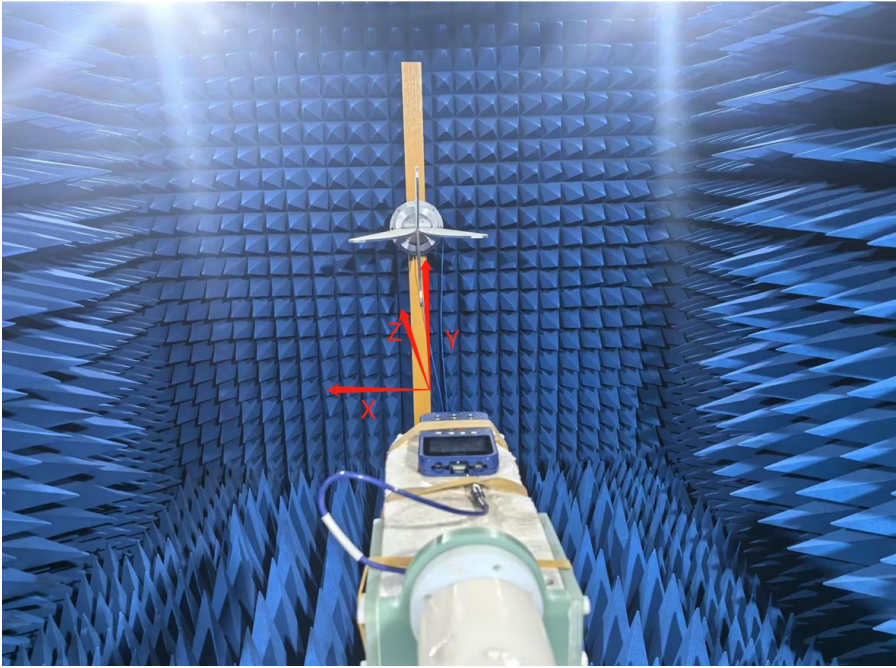


## 2. 4G-2. 48G ANTENNA REPORT

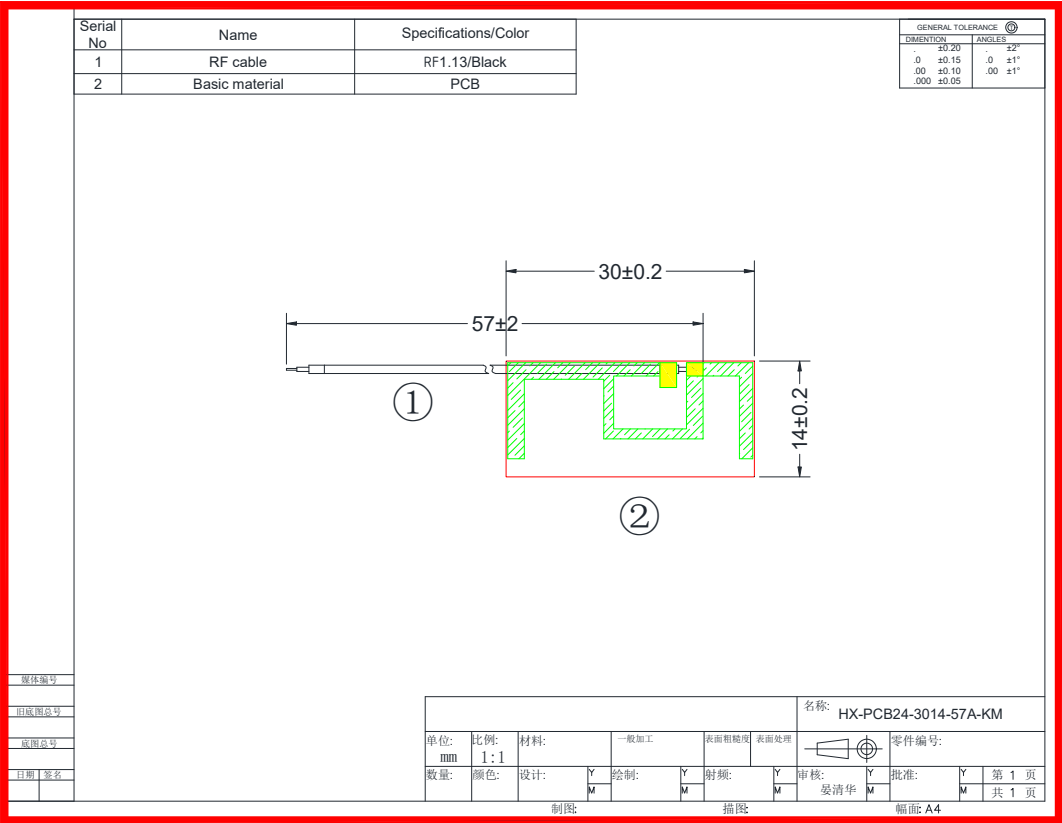
| SPECIFICATIONS         |                                                  |
|------------------------|--------------------------------------------------|
| Frequency (MHz)        | 2400-2480                                        |
| Peak Gain (dBi)        | 0.3                                              |
| Average Gain (dBi)     | >0.2                                             |
| VSWR                   | <3.0                                             |
| Impedance ( $\Omega$ ) | 50                                               |
| Antenna Type           | PCB Dipole antenna                               |
| Polarization           | Linear                                           |
| Manufacture            | Shenzhen Hongxin Technology Electronics Co., Ltd |



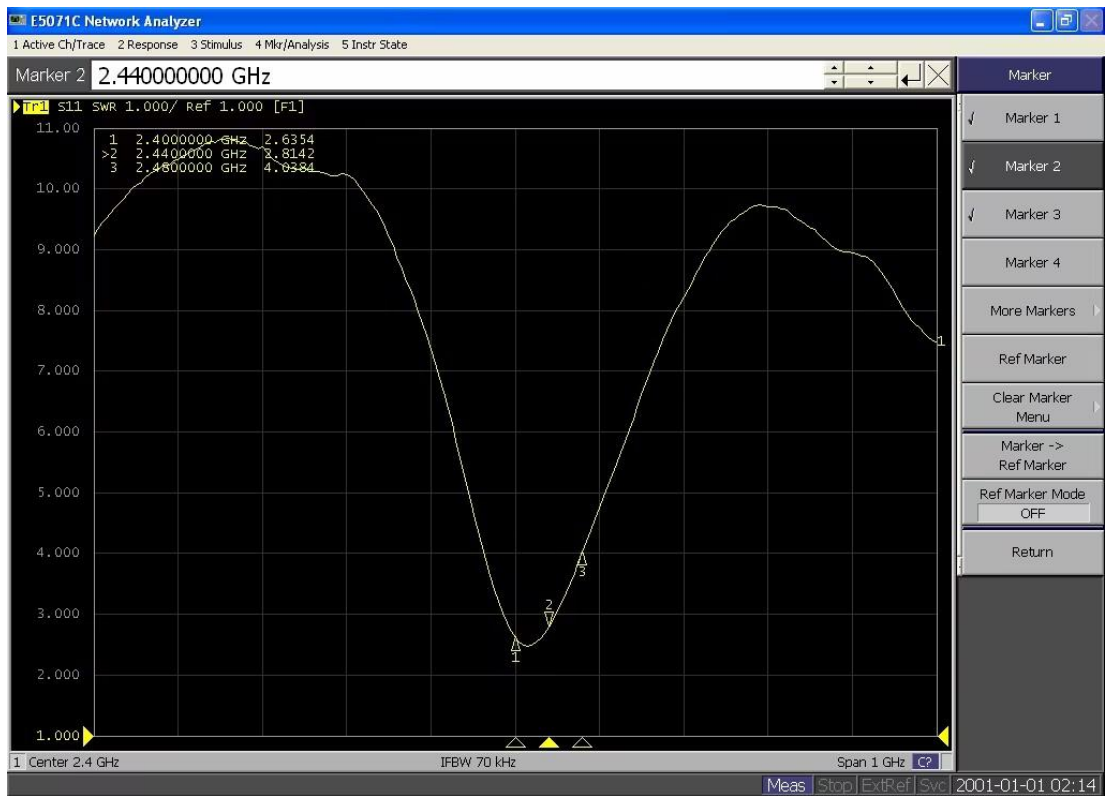
ANTENNA PHOTOSHOW :



ANTENNA SIZE :



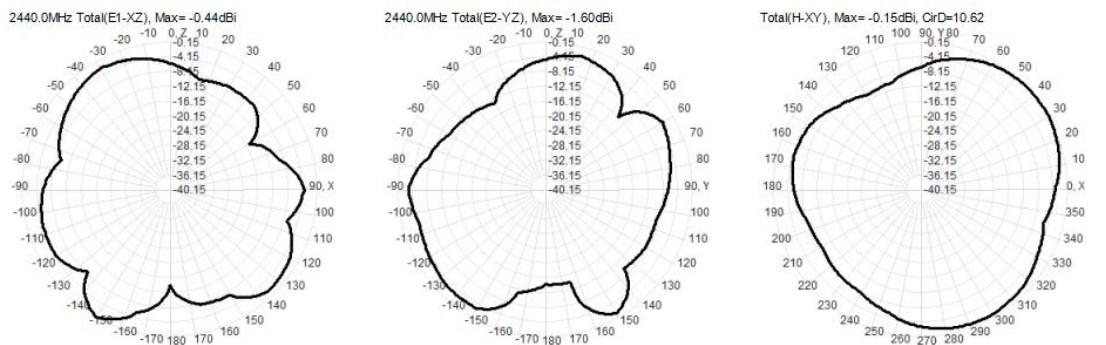
ANTENNA ELECTRIC PARAMETER:



Antenna efficiency and gain:

| Frequency (MHz)  | 2400  | 2405  | 2410  | 2415  | 2420  | 2425  | 2430  | 2435  | 2440  | 2445  | 2450  | 2455  | 2460  | 2465  | 2470  | 2475  | 2480  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficiency (dBi) | -5.83 | -5.66 | -5.57 | -5.60 | -5.56 | -5.45 | -5.39 | -5.38 | -5.38 | -5.35 | -5.24 | -5.17 | -5.27 | -5.34 | -5.31 | -5.36 | -5.48 |
| Gain (dBi)       | 0.09  | 0.22  | 0.27  | 0.19  | 0.19  | 0.21  | 0.29  | 0.24  | 0.21  | 0.22  | 0.26  | 0.34  | 0.17  | 0.23  | 0.20  | 0.20  | 0.07  |
| Efficiency (%)   | 26.13 | 27.19 | 27.74 | 27.55 | 27.79 | 28.50 | 28.90 | 28.99 | 29.01 | 29.17 | 29.95 | 30.41 | 29.73 | 29.23 | 29.46 | 29.09 | 28.31 |
| Directivity (dB) | 5.92  | 5.87  | 5.84  | 5.79  | 5.75  | 5.66  | 5.68  | 5.62  | 5.59  | 5.57  | 5.50  | 5.51  | 5.50  | 5.51  | 5.54  | 5.56  | 5.55  |

2440MHz 2D-Theta Pattern



## 2440MHz 3D-Horizontal Pattern

