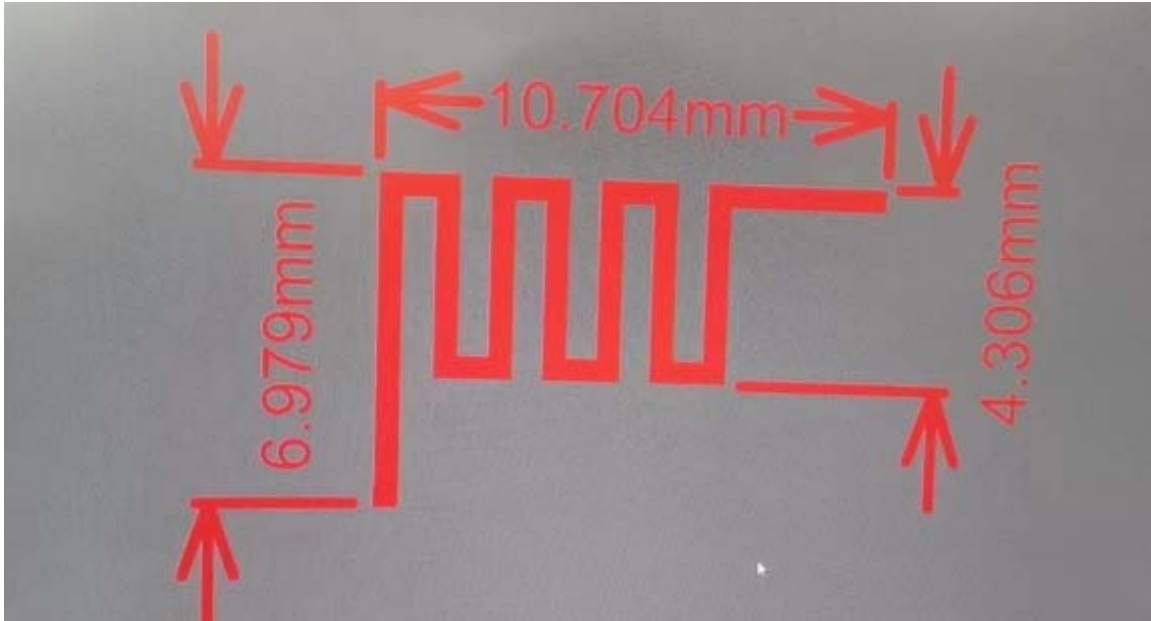


Antenna Report

| Specification | | |
|------------------|------------------------------|--|
| Model | CK103A/CK82A | |
| Impedance | 50Ω | |
| Test environment | Free space | |
| Freq. Range | 2.4-2.5GHz | |
| Antenna type | PCB Antenna | |
| VSWR | 2.4-2.5GHz < 2.0 | |
| Gain | Antenna: -0.88dBi(Peak gain) | |
| Manufacturer | HENG YU NEW | |

Antenna

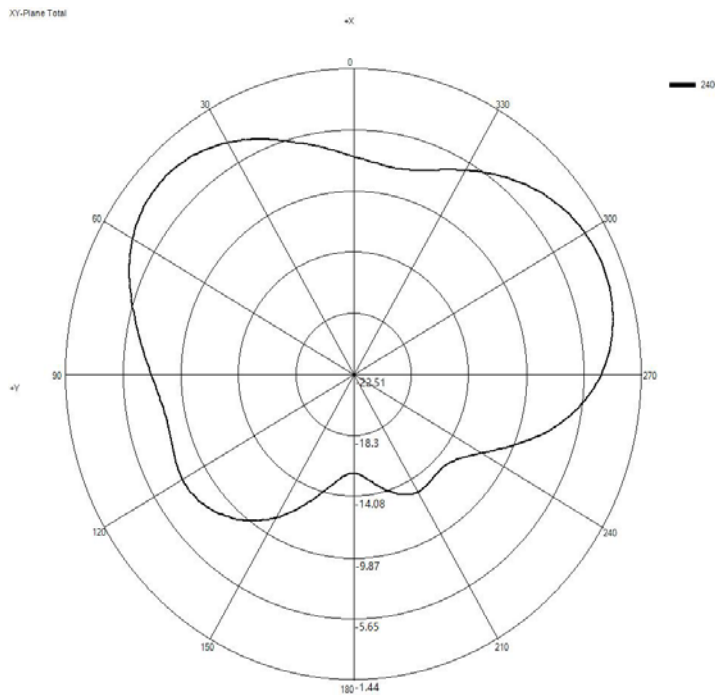


Antenna

| Freq (MHz) | Gain (dBi) | Efficiency (dB) | Efficiency (%) |
|------------|--------------|-----------------|----------------|
| 2400 | -1.474911425 | -5.940673258 | 25.46435465 |
| 2410 | -1.47474248 | -5.916792637 | 25.60476158 |
| 2420 | -1.335635819 | -5.731919745 | 26.71825101 |
| 2430 | -1.221347534 | -5.64873812 | 27.23492527 |
| 2440 | -1.301419597 | -5.644497195 | 27.26153341 |
| 2450 | -1.138915187 | -5.518206399 | 28.06592498 |
| 2460 | -1.189287263 | -5.490332828 | 28.24663495 |
| 2470 | -1.090179175 | -5.39841444 | 28.85084622 |
| 2480 | -1.127078211 | -5.367879205 | 29.05441125 |
| 2490 | -0.932165803 | -5.132668763 | 30.67136637 |
| 2500 | -0.88040458 | -5.058255579 | 31.20142593 |

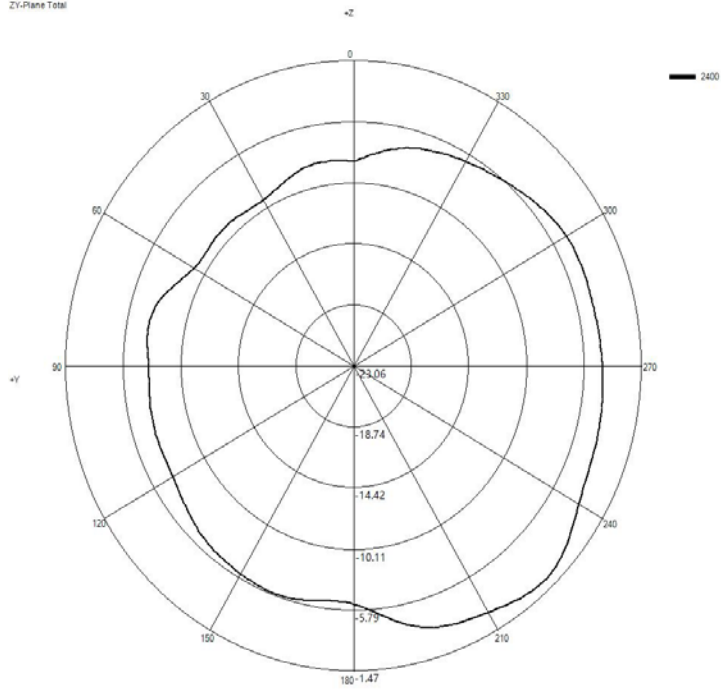
POLAR RADIATION PATTERN

FREQUENCY=2400MHZ(PHI=90°)



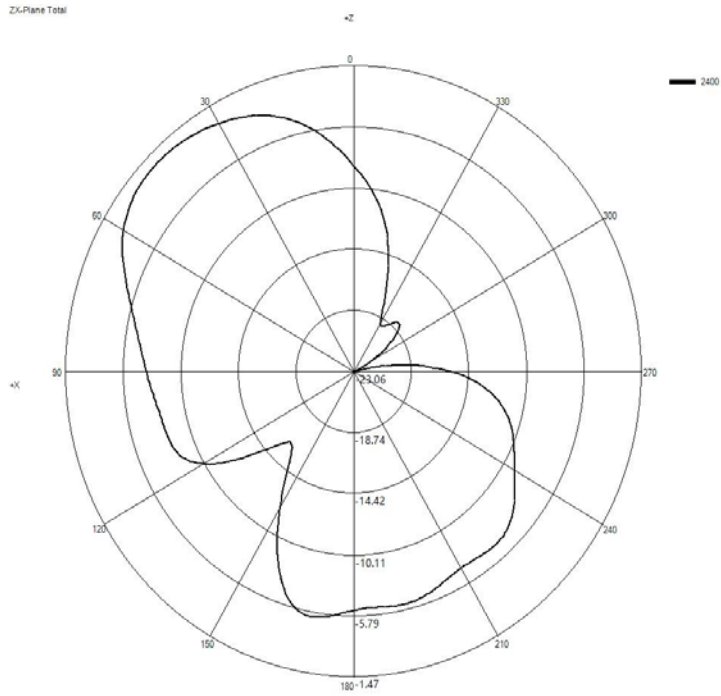
FREQUENCY=2450MHZ(PHI=0°)

ZY-Plane Total



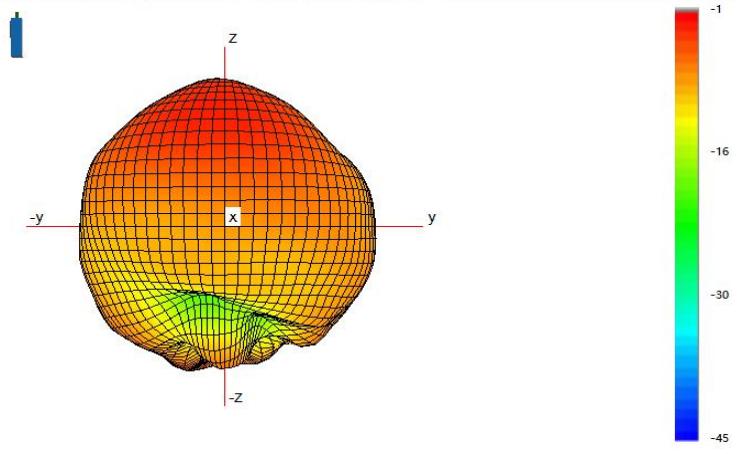
FREQUENCY=2500MHZ(PHI=90°)

ZX-Plane Total

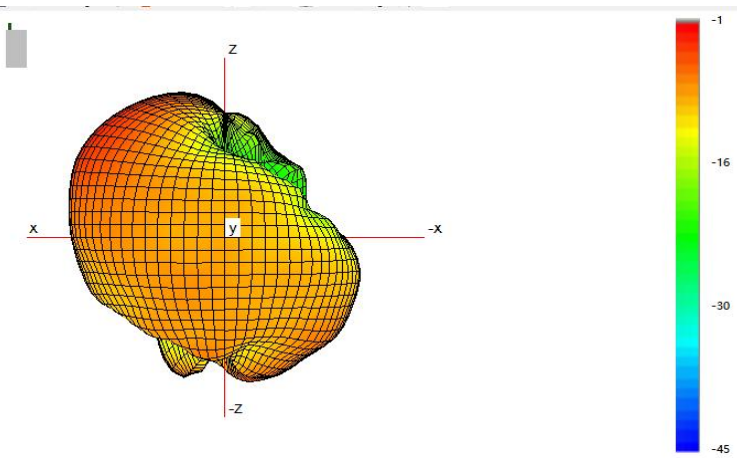


RADIATION PATTERN

FREQUENCY=2400MHZ



FREQUENCY=2450MHZ



FREQUENCY=2500MHZ

