

Shenzhen ATN communication equipment CO.,LTD.

Antenna Test Report

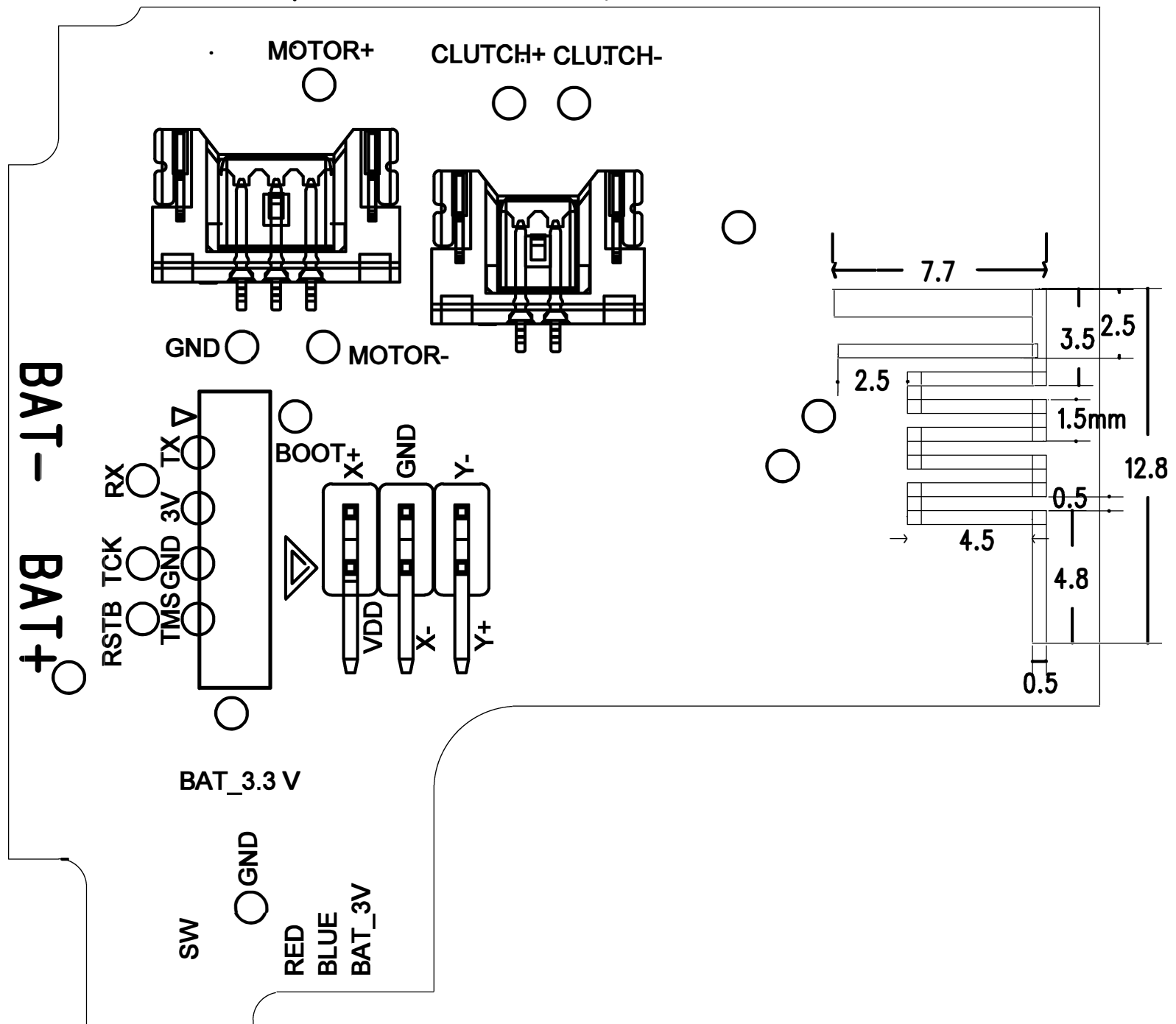
|                |                      |         |         |      |            |
|----------------|----------------------|---------|---------|------|------------|
| Customer       | Candy House          | Project | Sesame5 | Date | 2022.11.16 |
| Frequency Band | 2. 4G-2. 48G         |         |         |      |            |
| Version        | V1. 0                |         |         |      |            |
| Structure      | PCB on-board Antenna |         |         |      |            |

Address: 504-505, XiaGu,Wonderful life creative valley, Xinan, Baoan, ShenZhen

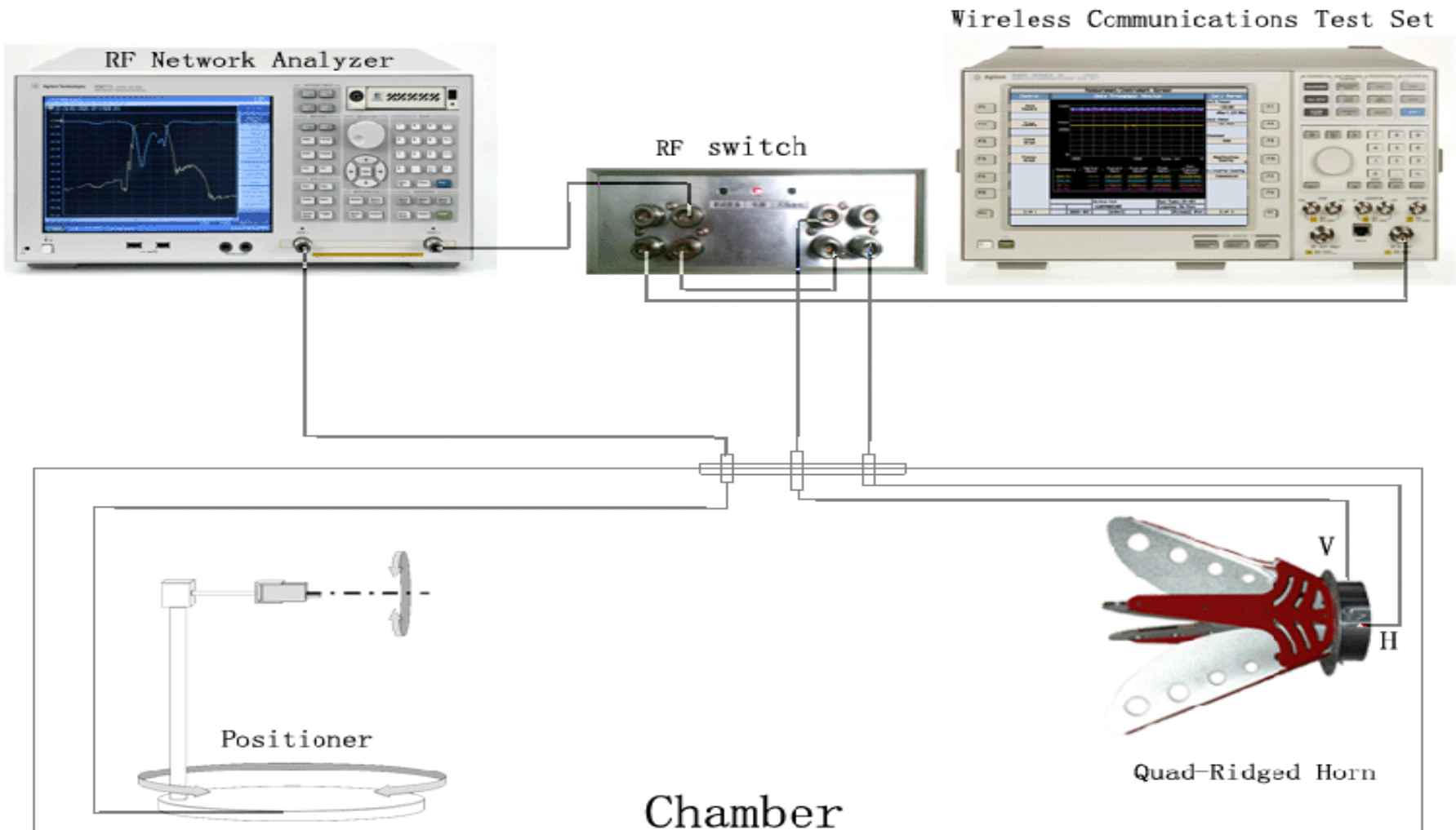
Tel:0755-29308863

Fax: 0755-29308861

# ATN ANTENNA



# TEST SYSTEM



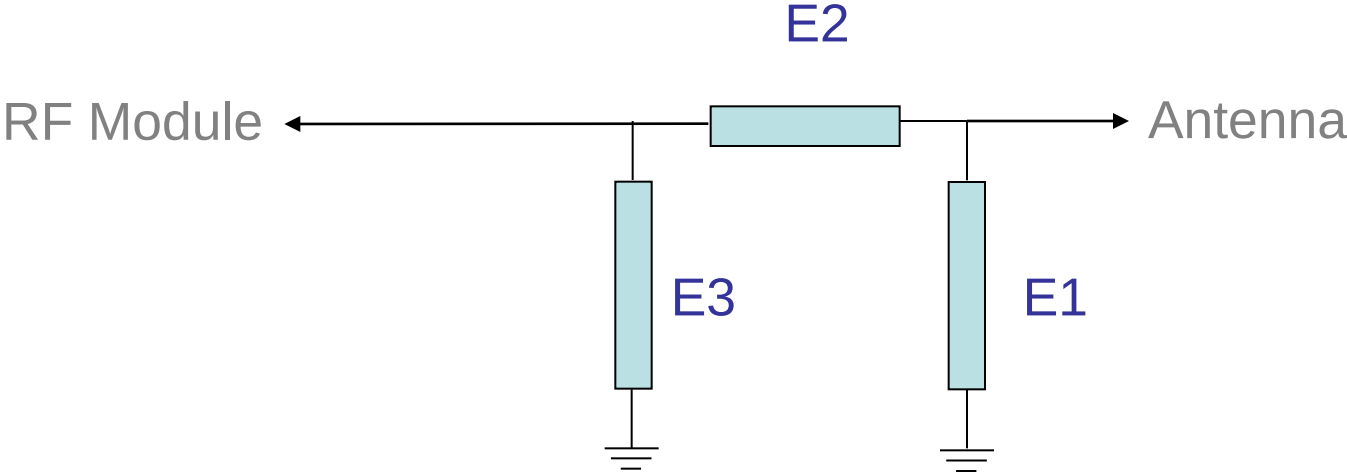
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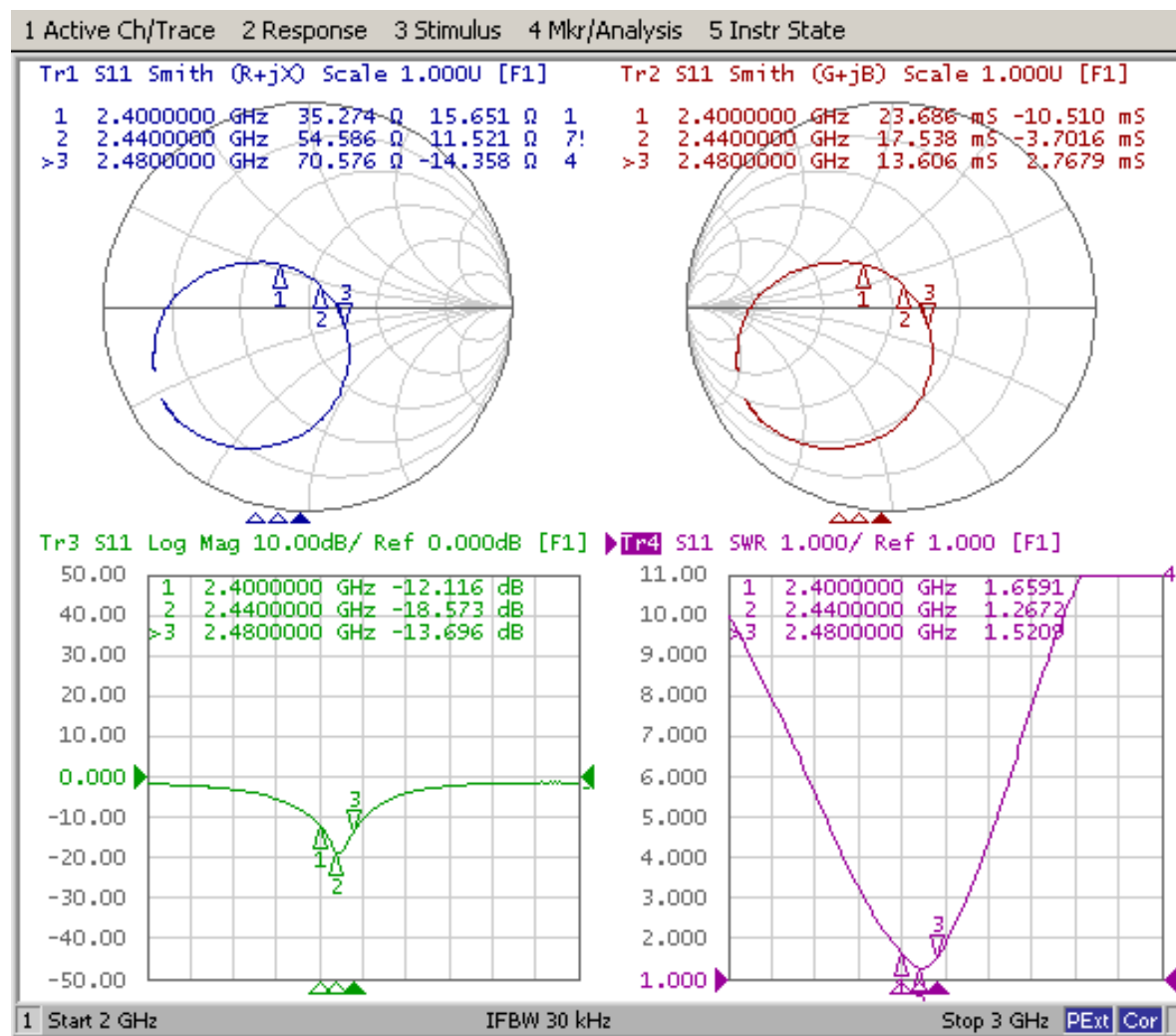
# 1. Matching circuit



| Element  | Value |
|----------|-------|
| E1(0201) |       |
| E2(0201) |       |
| E3(0201) |       |
|          |       |

# 2. Test Data Report

## 2.1 S11 Parameter

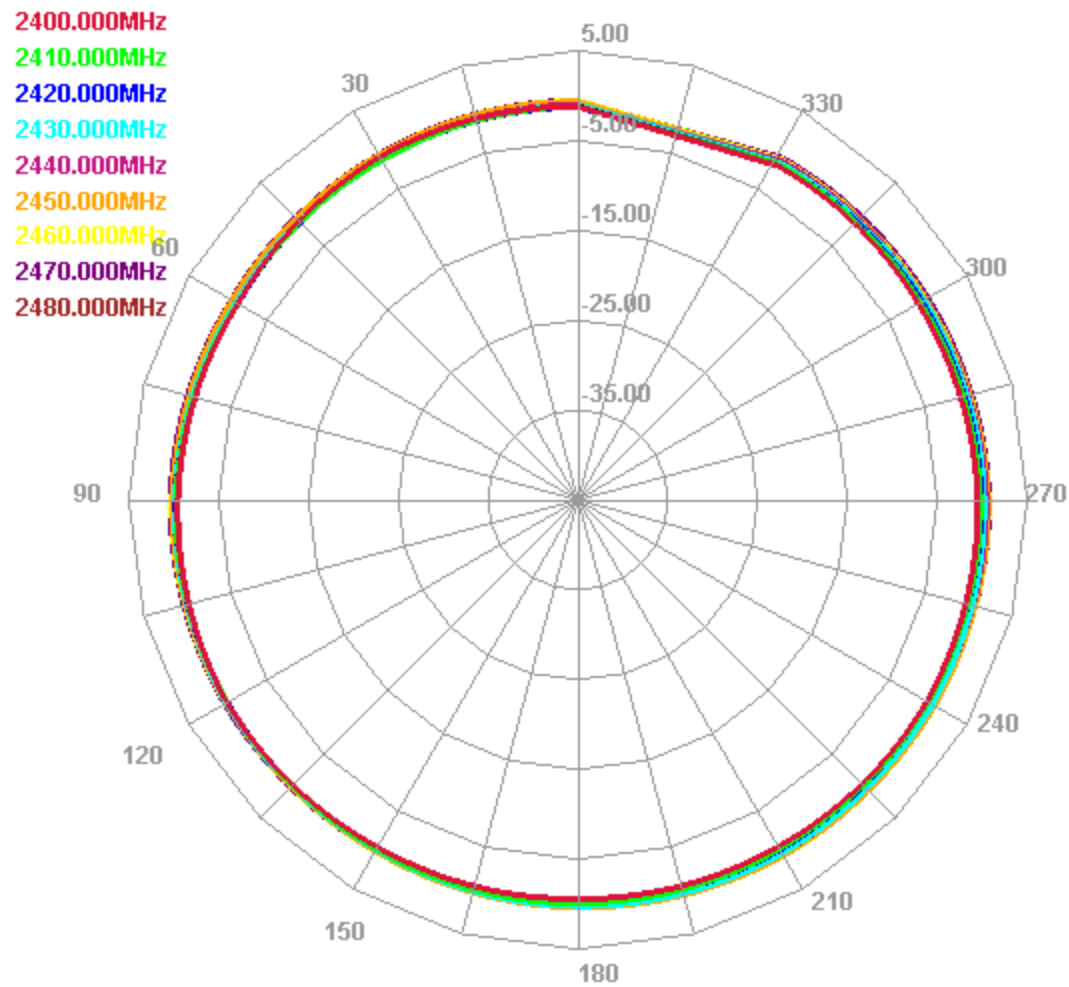


2.2 Gain & Efficiency

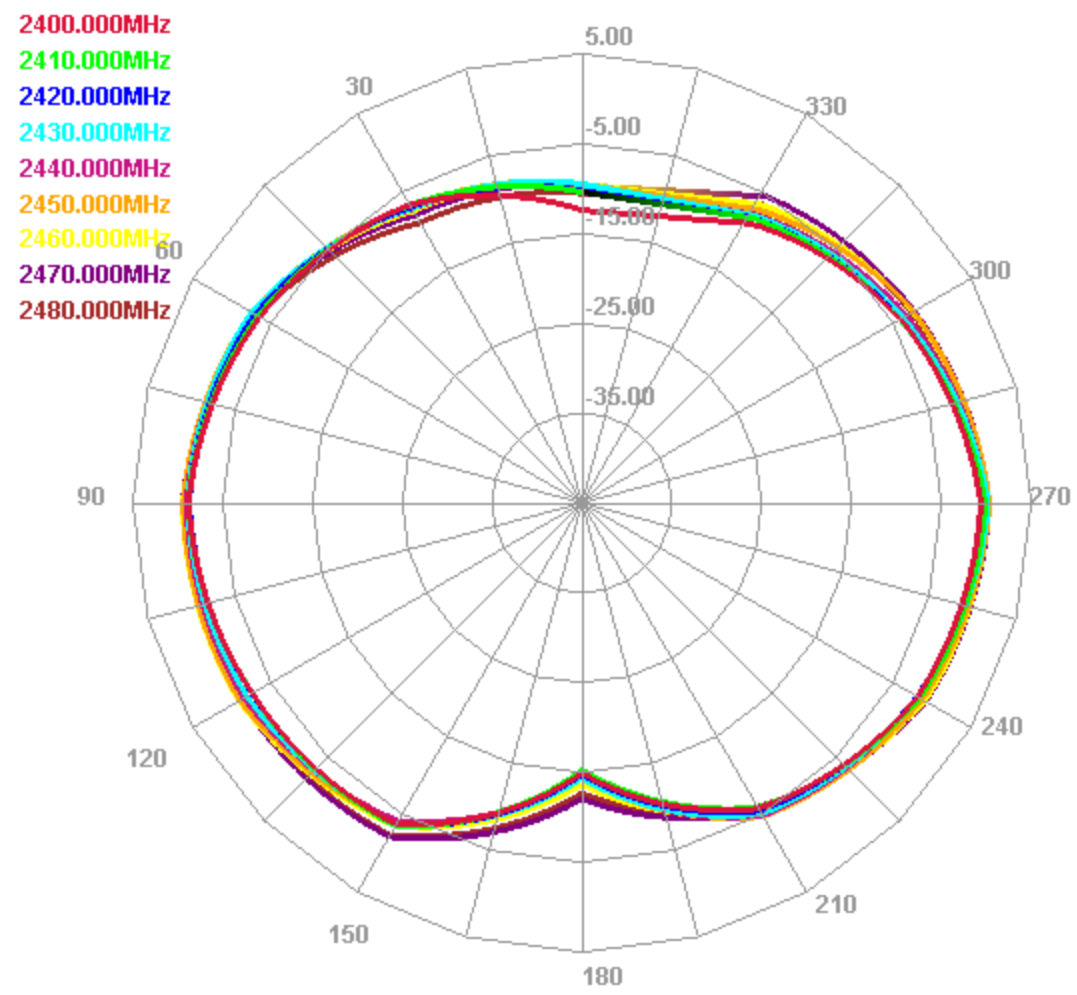
| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 49.54       | -3.05        | 0.12          |
| 2410          | 50.86       | -2.94        | 0.09          |
| 2420          | 51.37       | -2.89        | 0.08          |
| 2430          | 55.75       | -2.54        | 0.59          |
| 2440          | 57.49       | -2.4         | 0.54          |
| 2450          | 62.53       | -2.04        | 0.86          |
| 2460          | 63.51       | -1.97        | 0.86          |
| 2470          | 64.83       | -1.88        | 0.79          |
| 2480          | 61.87       | -2.09        | 0.69          |

## 2.3 Radiation pattern

### Horizontal



E1 Face



E2 Face

