

深圳祥博一科技有限公司

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# ❖ 天线测试报告

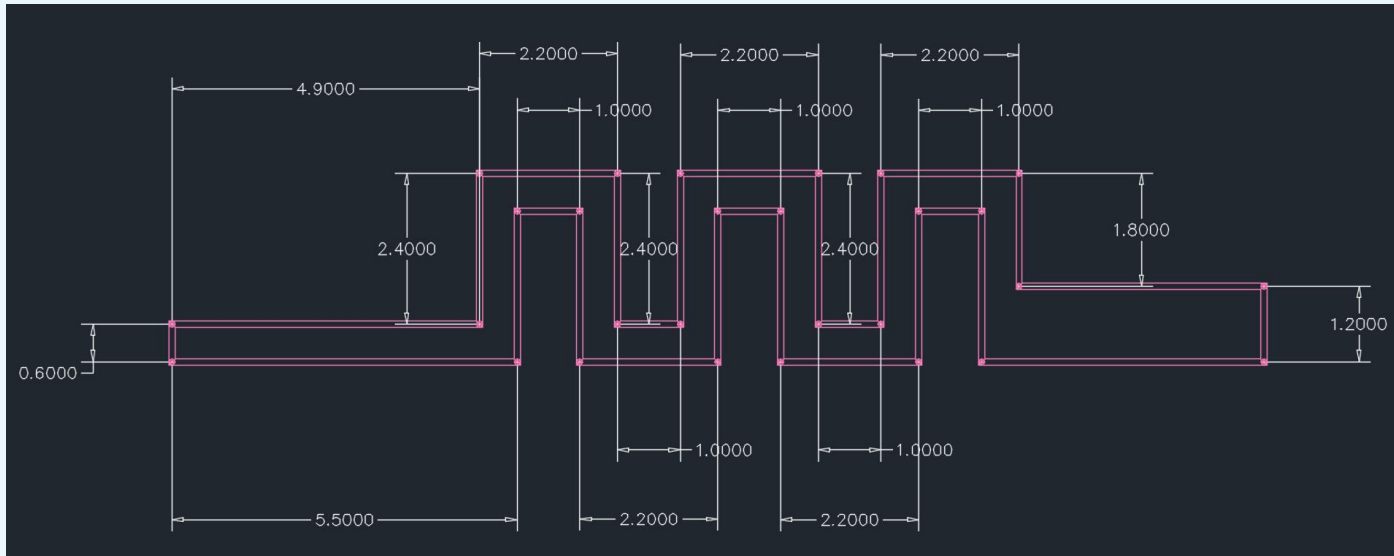
# Antenna Test Report

客户案号/ Customer No. :Blue PCB keyboard

日期/Date: 2021.12.6

Project leader: Zijun Guo

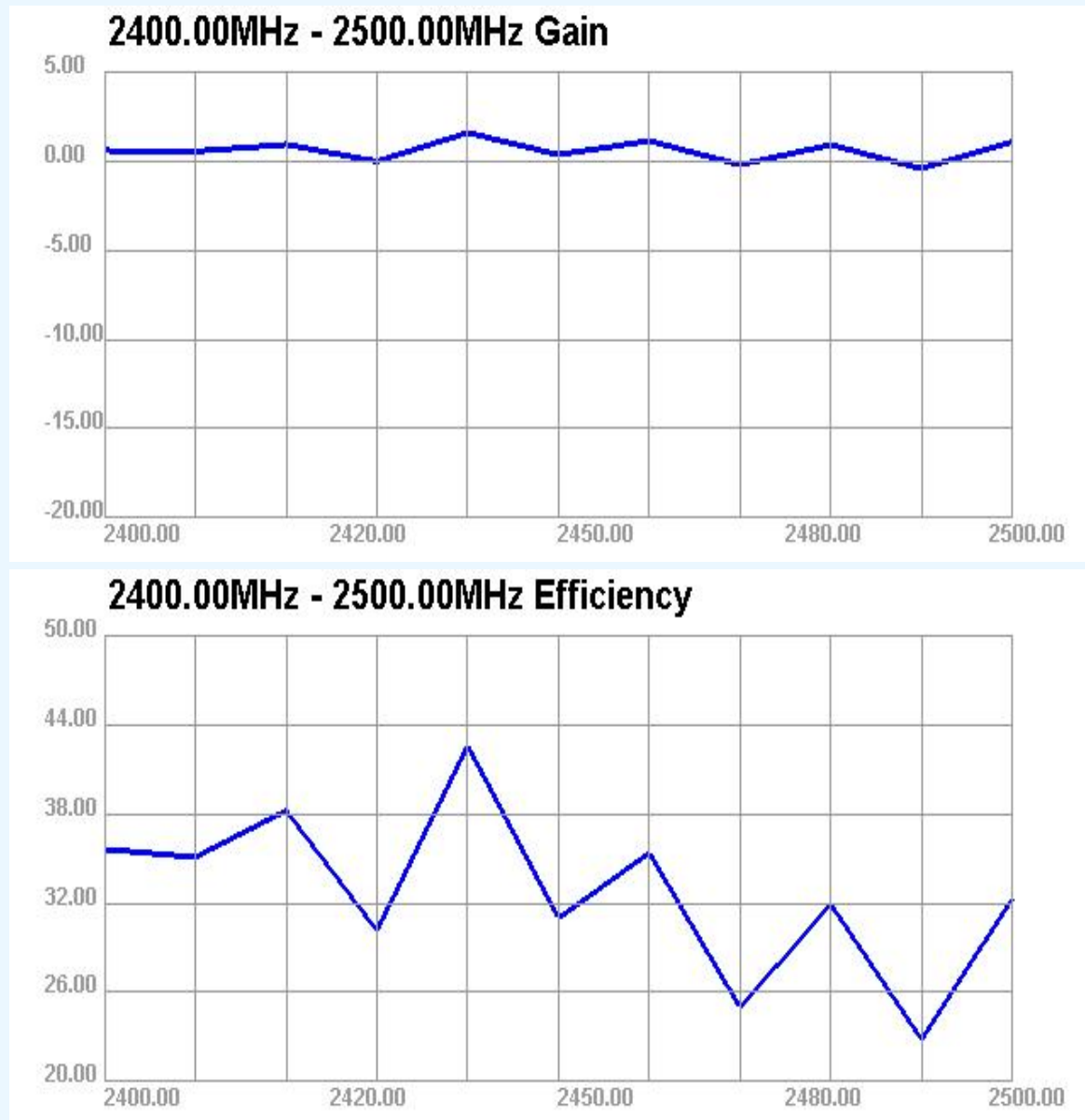
# Antenna size



# Antenna efficiency:

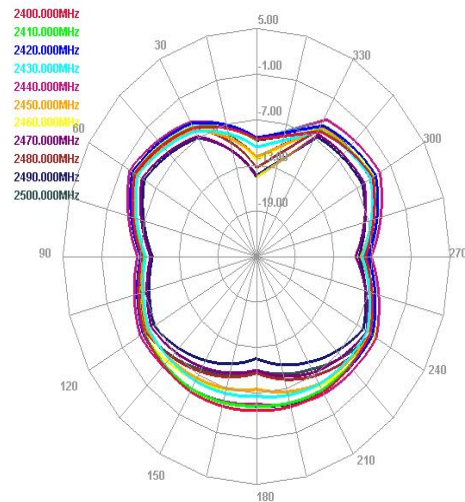
| Passive Test For 2.4G |       |       |       |       |        |        |       |        |         |         |
|-----------------------|-------|-------|-------|-------|--------|--------|-------|--------|---------|---------|
| Freq                  | Effi  | Effi  | Gain  | Gain  | UHS    | DHS    | Max   | Min    | Attenut | Attenut |
| (MHz)                 | (%)   | (dB)  | (dBi) | (dBd) | (%)    | (%)    | (dB)  | (dB)   | Hor     | Ver     |
| 2400                  | 35.63 | -4.48 | 0.58  | -1.57 | 18.111 | 17.516 | 0.58  | -13.44 | 52.04   | 52.1    |
| 2410                  | 35.09 | -4.55 | 0.54  | -1.61 | 17.833 | 17.261 | 0.54  | -14.32 | 52.46   | 52.46   |
| 2420                  | 38.23 | -4.18 | 0.92  | -1.23 | 19.429 | 18.796 | 0.92  | -14.63 | 52.08   | 52.29   |
| 2430                  | 30.16 | -5.21 | -0.02 | -2.17 | 15.37  | 14.787 | -0.02 | -15.68 | 50.32   | 50.23   |
| 2440                  | 42.58 | -3.71 | 1.58  | -0.57 | 21.64  | 20.94  | 1.58  | -14.02 | 51.45   | 51.43   |
| 2450                  | 30.98 | -5.09 | 0.36  | -1.79 | 15.605 | 15.379 | 0.36  | -15.78 | 50.23   | 50.3    |
| 2460                  | 35.38 | -4.51 | 1.12  | -1.03 | 17.671 | 17.712 | 1.12  | -15.33 | 51.42   | 51.44   |
| 2470                  | 24.98 | -6.02 | -0.21 | -2.36 | 12.275 | 12.703 | -0.21 | -17.97 | 51.08   | 51      |
| 2480                  | 31.92 | -4.96 | 0.9   | -1.25 | 15.54  | 16.384 | 0.9   | -17.82 | 51.42   | 51.44   |
| 2490                  | 22.83 | -6.41 | -0.43 | -2.58 | 10.925 | 11.91  | -0.43 | -21.06 | 51.06   | 50.78   |
| 2500                  | 32.31 | -4.91 | 1.06  | -1.09 | 15.301 | 17.008 | 1.06  | -20.48 | 51.52   | 51.43   |

## ANT 2.4-2.5GHz Antenna pattern

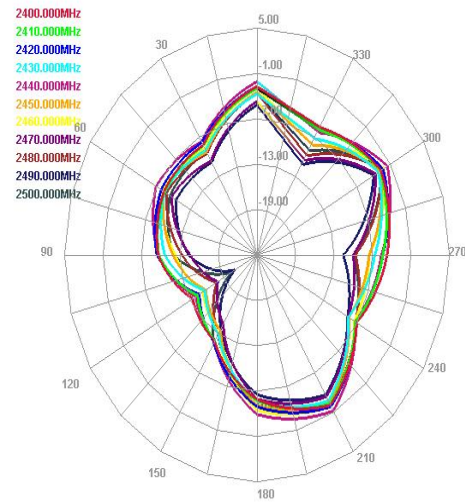


# ANT 2.4-2.5GHz Antenna pattern

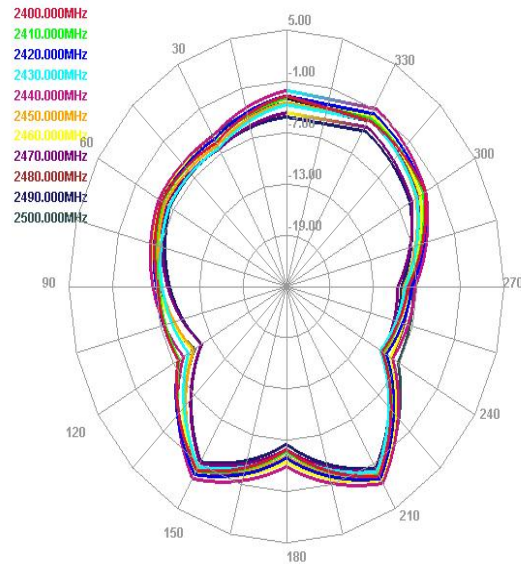
**Horizontal**



**E1 Face**



**E2 Face**



Thanks for your valuable comment!