



SHENZHEN YINGJIACHUANG ELECTRONIC TECHNOLOGY CO.,LTD.

## Product Antenna Tuning Report

TIME: 2022/05/09

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OTA数据

| Item | Measurement | Azimuths | Elevations | Standard  | Band             | Channel | Frequency | Max    | Min    | Total  |
|------|-------------|----------|------------|-----------|------------------|---------|-----------|--------|--------|--------|
| 1    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 1       | 2412      | 18.01  | -0.34  | 13.89  |
| 2    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 6       | 2437      | 18.01  | -3.69  | 13.74  |
| 3    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 11      | 2462      | 17.16  | -4.91  | 13.45  |
| 4    | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 1       | 2412      | -64.37 | -82.83 | -78.61 |
| 5    | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 6       | 2437      | -60.88 | -82.08 | -77.87 |
| 6    | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_B (11M)     | 11      | 2462      | -61.83 | -83.31 | -79.17 |
| 7    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 1       | 2412      | 17.5   | -1.81  | 13.16  |
| 8    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 6       | 2437      | 16.23  | -4.95  | 12.07  |
| 9    | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 11      | 2462      | 15.6   | -6.34  | 11.51  |
| 10   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 1       | 2412      | -49.81 | -69.52 | -65.14 |
| 11   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 6       | 2437      | -47.07 | -69.63 | -65.46 |
| 12   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_G (54M)     | 11      | 2462      | -48.01 | -70.06 | -65.86 |
| 13   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 1       | 2412      | 16.33  | -3.6   | 12.11  |
| 14   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 6       | 2437      | 15.21  | -7     | 11.15  |
| 15   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 11      | 2462      | 14.51  | -9.92  | 10.41  |
| 16   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 1       | 2412      | -46.75 | -66.46 | -62.31 |
| 17   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 6       | 2437      | -44.36 | -65.99 | -61.91 |
| 18   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_N_ISM (65M) | 11      | 2462      | -42.54 | -67.25 | -62.98 |
| 19   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 36      | 5180      | 20.7   | -3.94  | 14.66  |
| 20   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 100     | 5500      | 22.8   | -3.53  | 15.64  |
| 21   | TRP         | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 165     | 5825      | 25.52  | -0.55  | 17.82  |
| 22   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 36      | 5180      | -51.63 | -77.03 | -70.95 |
| 23   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 100     | 5500      | -52.03 | -78.74 | -71.55 |
| 24   | TIS(EIRP)   | Every30  | Every30    | WIFI (AP) | WIFI_A (54M)     | 165     | 5825      | -51.51 | -77.56 | -69.91 |

## WIFI Subnet Test Standing Wave Map

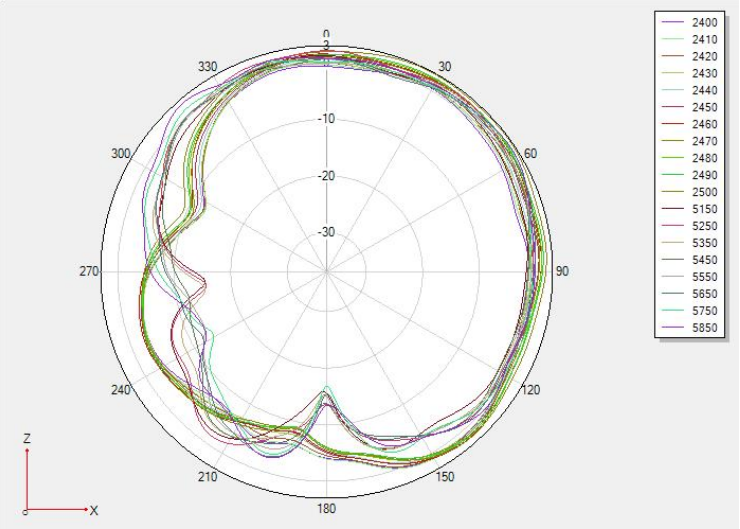


## WIFI Passive Test Data

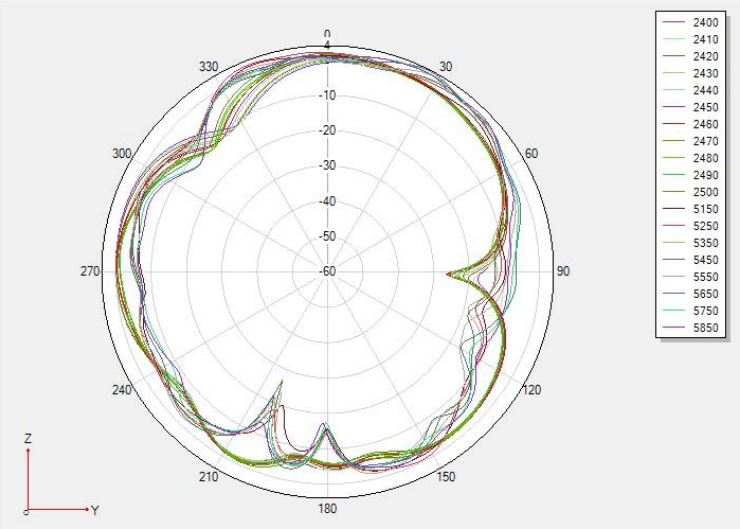
| Frequency | Efficiency (%) | Gain. (dBi) |
|-----------|----------------|-------------|
| 2400      | 48.87          | 3.56        |
| 2410      | 52             | 3.64        |
| 2420      | 47.42          | 3.43        |
| 2430      | 46.99          | 2.75        |
| 2440      | 48.08          | 2.77        |
| 2450      | 53.09          | 2.95        |
| 2460      | 50.82          | 3.03        |
| 2470      | 47.42          | 2.37        |
| 2480      | 49.09          | 2.64        |
| 2490      | 52.72          | 2.65        |
| 2500      | 52.72          | 3.23        |
| 5150      | 59.29          | 2.56        |
| 5250      | 57.02          | 3.02        |
| 5350      | 66.07          | 2.37        |
| 5450      | 54.95          | 2.3         |
| 5550      | 61.8           | 3.1         |
| 5650      | 62.23          | 4           |
| 5750      | 63.83          | 4.15        |
| 5850      | 63.1           | 3.84        |

# WIFI Test 2D Diagram

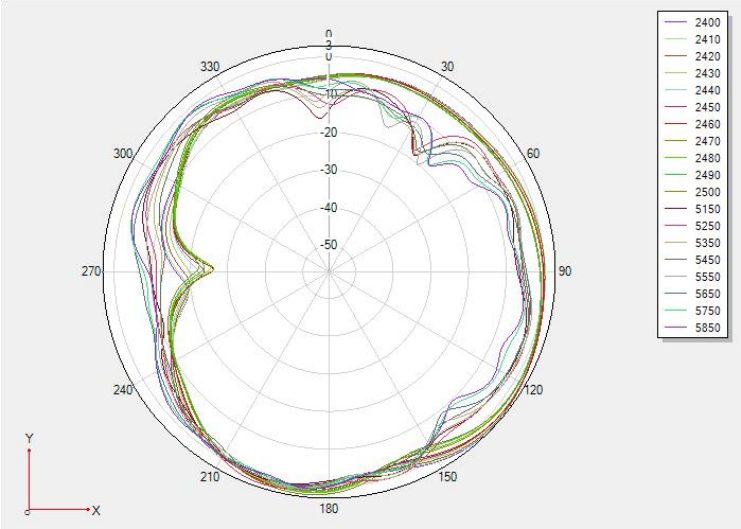
Phi 0



Phi 90



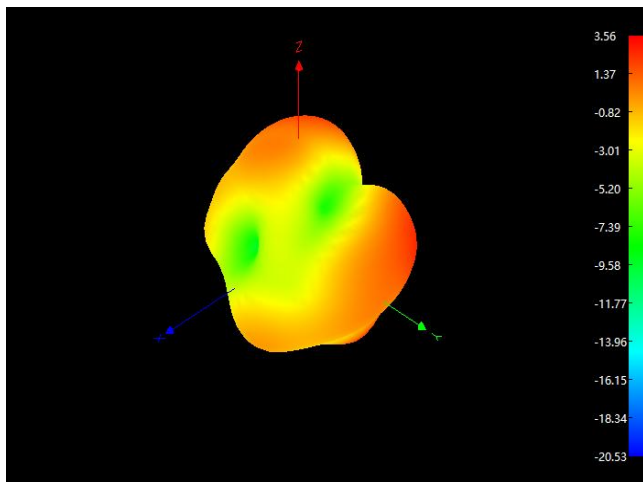
Theta 90



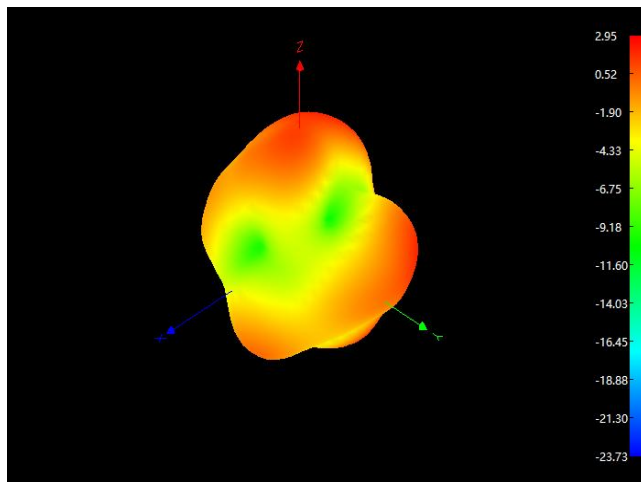


# WIFI Test 3D Diagram

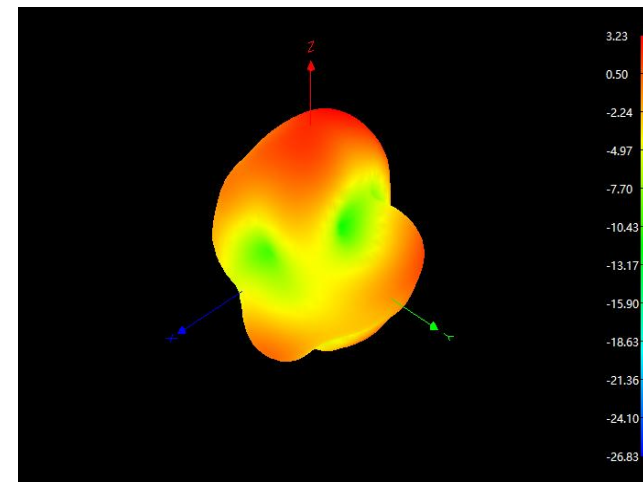
2400



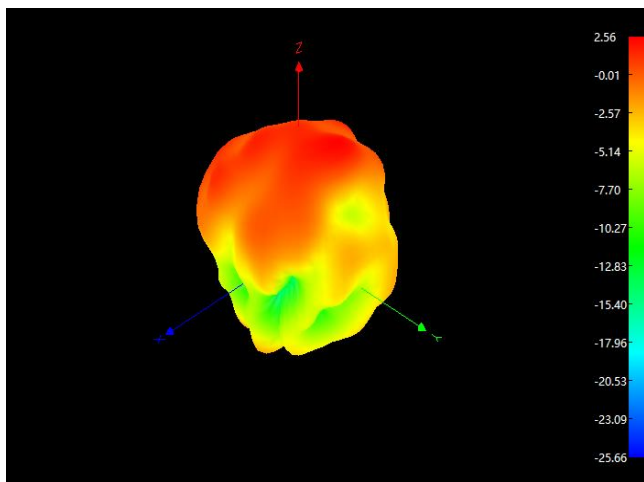
2450



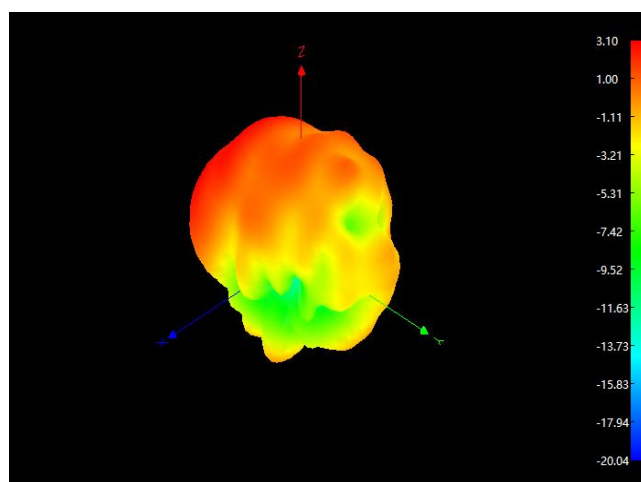
2500



5150



5550



5850

