



# Antenna Part Specification

|                    |              |
|--------------------|--------------|
| Project name:      | 380R PRO     |
| Material category: | WIFI Antenna |
| Version:           | V1.0         |
| Date:              | 2024.05.16   |

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| Change record            |                   |                 |         |
|--------------------------|-------------------|-----------------|---------|
| Compile /<br>change date | Reason for change | Changed content | Version |
| 2024.05.16               | First edition     | First edition   | V1.0    |
|                          |                   |                 |         |
|                          |                   |                 |         |

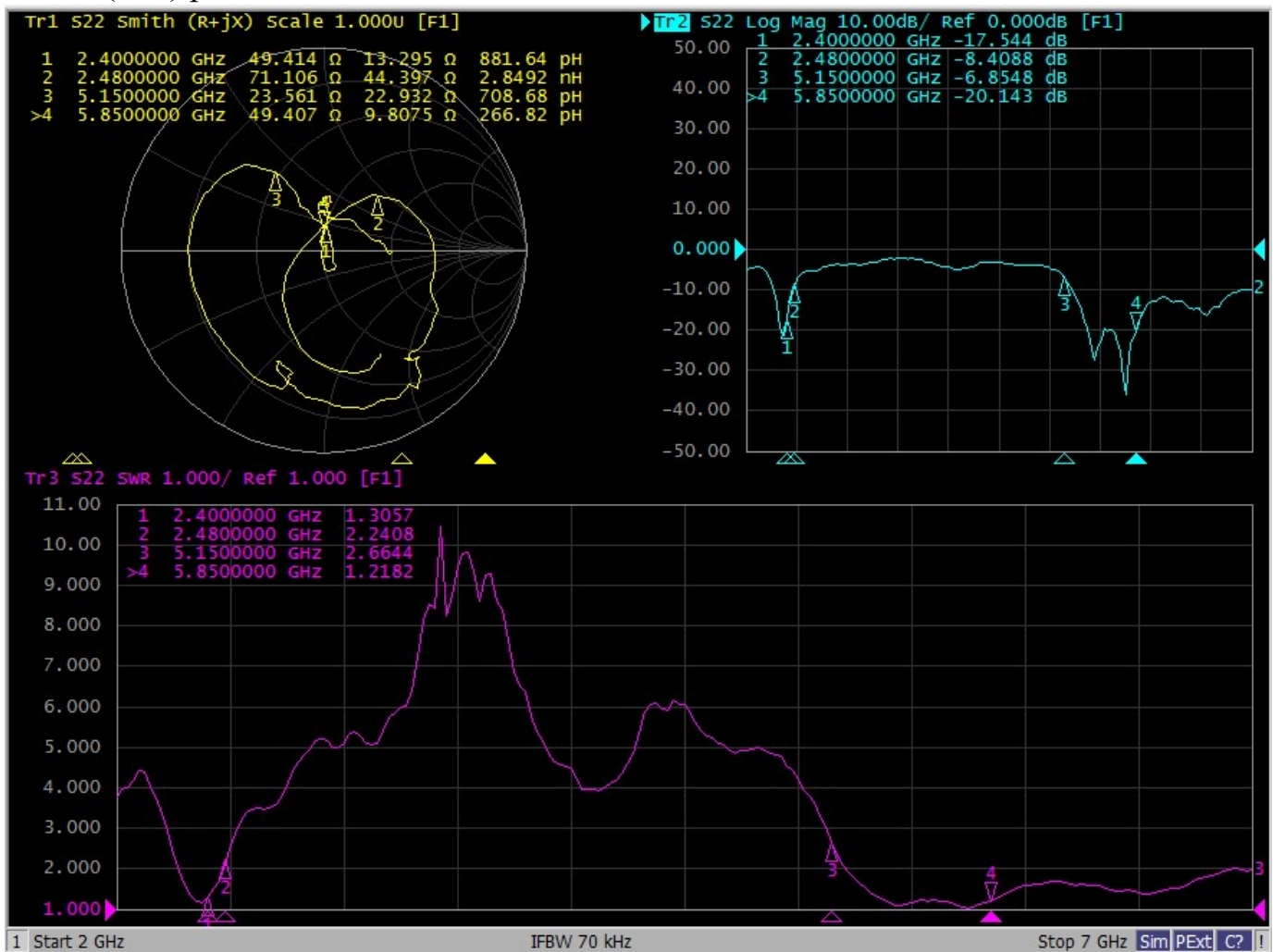


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:

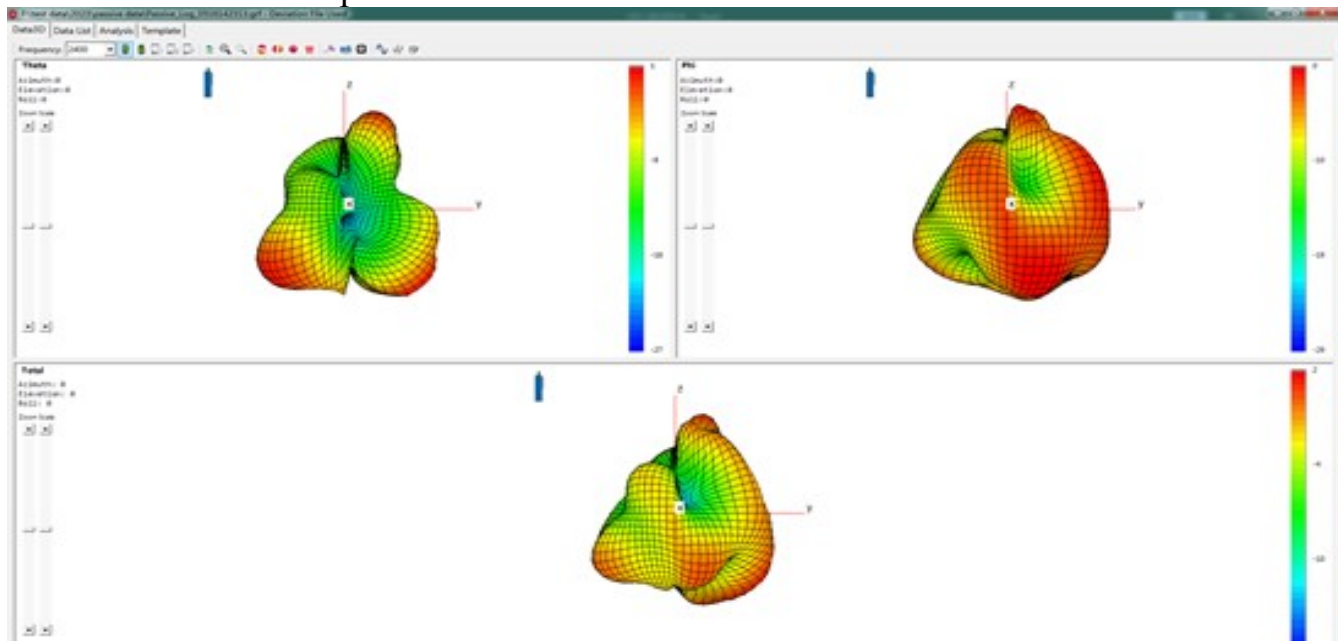




Efficiency:

| 2400-2480 MHz   |            |                  |            |
|-----------------|------------|------------------|------------|
| Frequency (MHz) | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400            | 1.7        | -2.6             | 54.90%     |
| 2410            | 1.8        | -2.6             | 54.40%     |
| 2420            | 1.8        | -2.6             | 54.70%     |
| 2430            | 1.7        | -2.7             | 53.10%     |
| 2440            | 1.6        | -2.8             | 51.90%     |
| 2450            | 1.8        | -2.8             | 53.10%     |
| 2460            | 1.7        | -2.8             | 52.40%     |
| 2470            | 2.1        | -2.5             | 56.50%     |
| 2480            | 2.3        | -2.3             | 59.00%     |
| Average value   | 1.8        | -2.6             | 54.40%     |

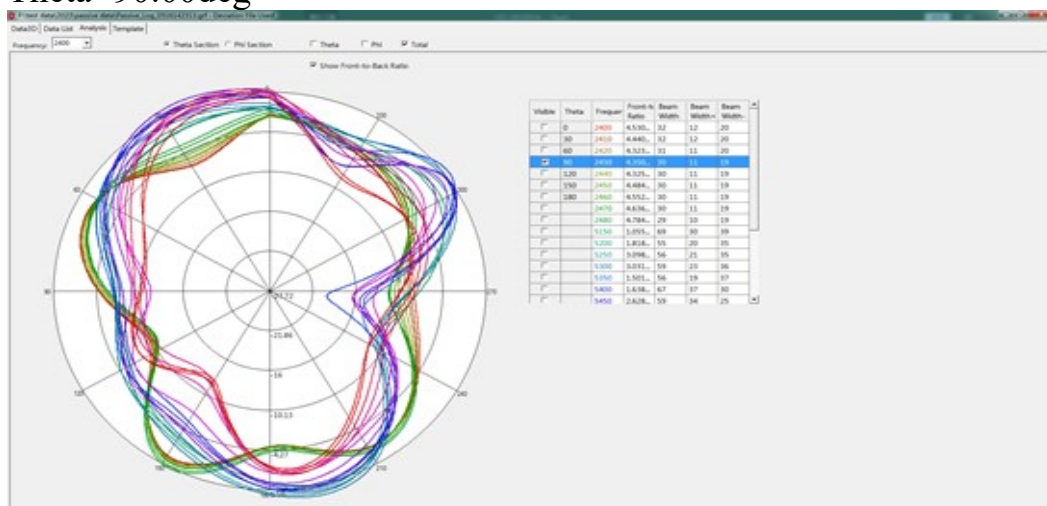
3D Antenna radiation pattern:



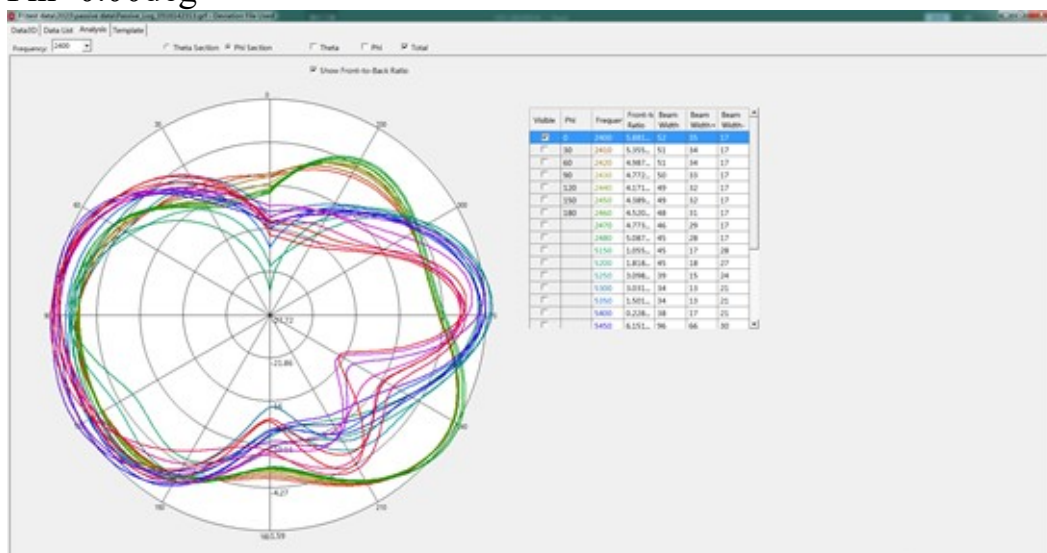


Antenna radiation pattern:

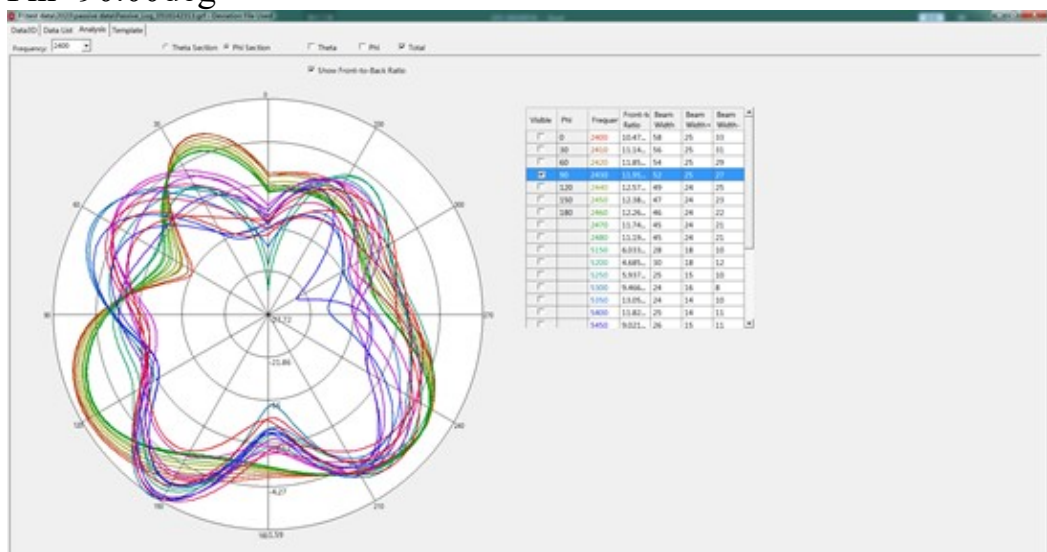
Theta=90.00deg



Phi=0.00deg



Phi=90.00deg





## II: 3D Active test report of antenna

### Static data

| 11M    | Channel | TRP (dBm) | TIS (dBm) |
|--------|---------|-----------|-----------|
| WIFI B | CH 1    | 15.6      | -84.2     |
|        | CH 7    | 15.9      | -84.8     |
|        | CH 13   | 15.8      | -84.2     |

| 6M/54M | Channel | TRP (dBm) | TIS (dBm) |
|--------|---------|-----------|-----------|
| WIFI G | CH 1    | 15.6      | -71.9     |
|        | CH 7    | 15.9      | -72.3     |
|        | CH 13   | 15.9      | -71.5     |

### Dynamic data

| 11M    | Channel | TRP (dBm) | TIS (dBm) |
|--------|---------|-----------|-----------|
| WIFI B | CH 1    | 15.8      | -75.4     |
|        | CH 7    | 15.8      | -76.0     |
|        | CH 13   | 15.7      | -78.1     |

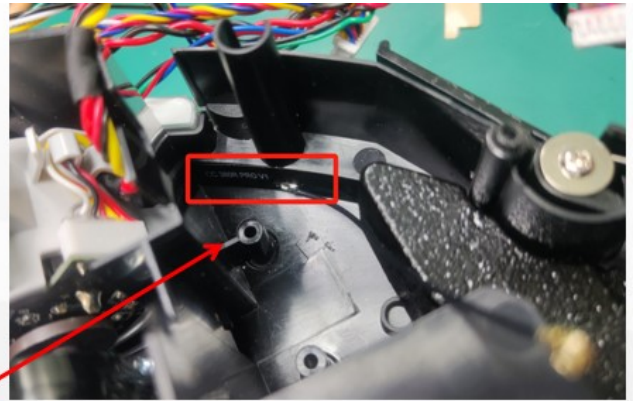
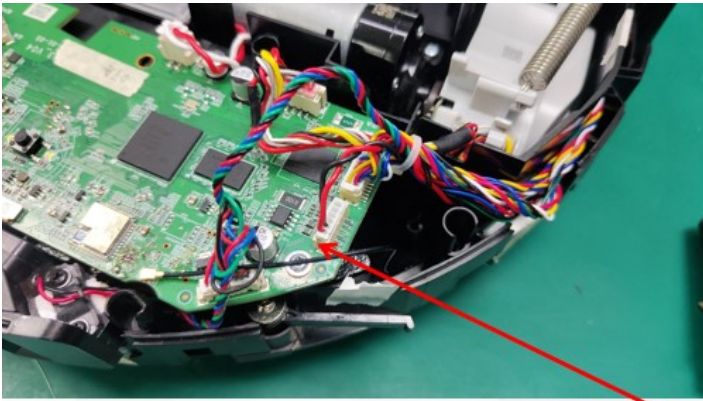
| 6M/54M | Channel | TRP (dBm) | TIS (dBm) |
|--------|---------|-----------|-----------|
| WIFI G | CH 1    | 15.7      | -69.2     |
|        | CH 7    | 15.8      | -70.0     |
|        | CH 13   | 15.7      | -70.1     |



OTA Standard Chamber



### III: Environmental treatment



As shown in the figure:

- 1、 The antenna should be pasted at the bottom position below the motherboard, which must be pasted as shown in the picture! This location is a good place to avoid interference.
- 2、 The same applies to coaxial lines, as shown in the diagram above.
- 3、 The plug-in cable from the motor to the motherboard needs to be fixed with tape.



IV: Structure file

