

4-2. Impedance


50 ohm nominal

4-3. Matching

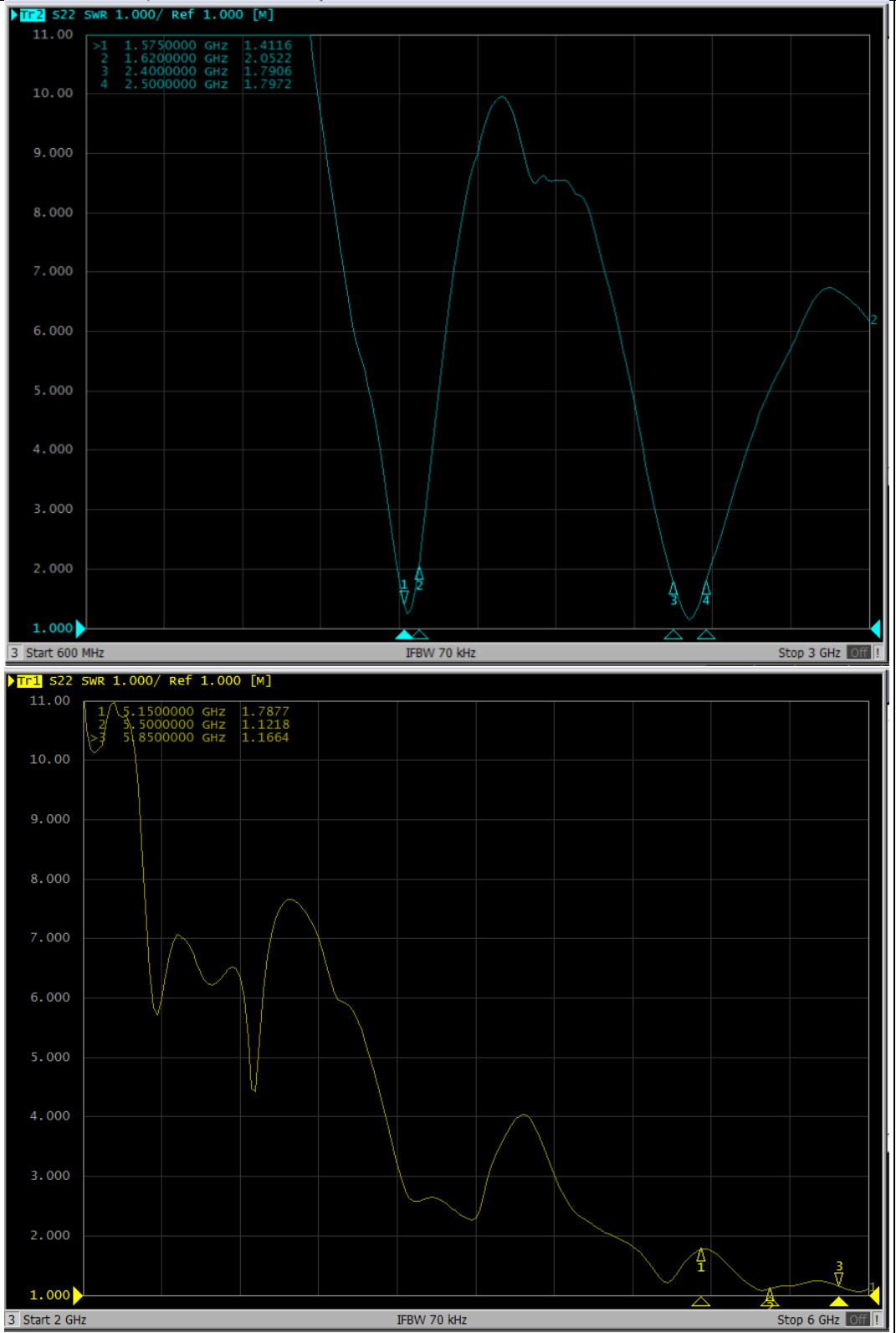
三合一天线版本 : V0
 三合一天线匹配 :
 GPS/WIFI2.4G:并1.2pf串0欧姆并3.9nh
 WIFI5G:0欧姆

4-4. VSWR

| Frequency Band | 1575.42 | 2400 | 2500 | 5150 | 5850 | | |
|-------------------------|---|----------|----------|----------|----------|--|--|
| 4-4-1. Typical Value: | ≤ 2.5 | ≤ 4 | ≤ 4 | ≤ 4 | ≤ 4 | | |
| 4-4-2. Measuring Method | 1. A 50Ωcoaxial cable is connected to the pcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm. | | | | | | |

| | | |
|---|---|-----------------------------------|
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| DRAWN BY: 王婷 CHECKED BY: 张涛 | | |
| DESIGNED BY: 吴振江 APPROVED BY: 范东亚 | | |
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4-4-3.Picture



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4-5. Efficiency and Gain

4-5.1 Measuring equipment

Measuring instrument:

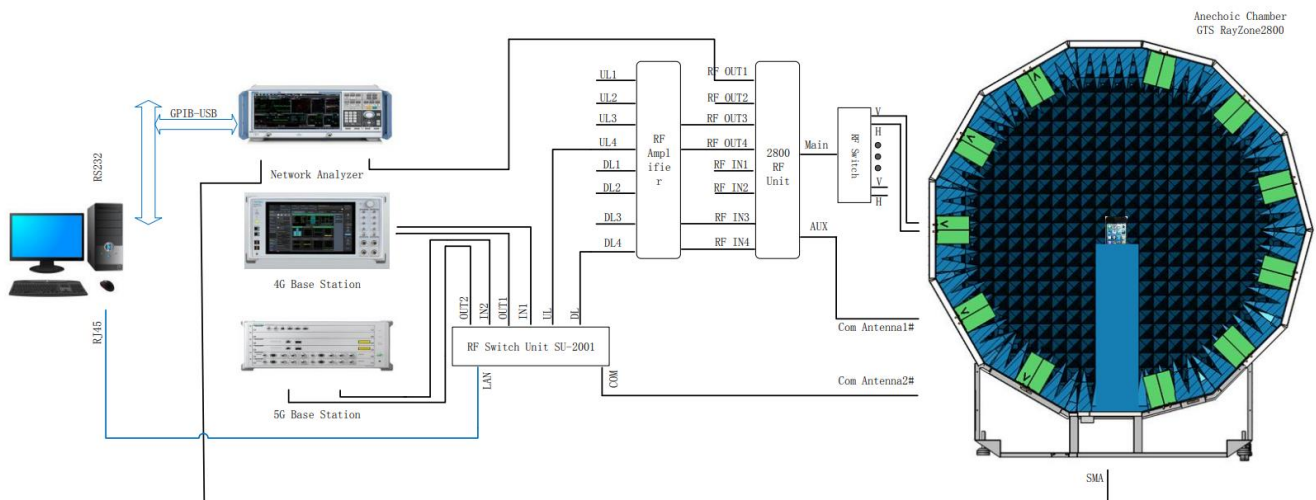
Microwave chamber, Network analyzer, and standard antenna.

Instructions for microwave chamber:

This is a microwave chamber set up by our company in Suzhou, This microwave chamber belongs to a set of near-field measurement system. The size of the chamber



RayZone2800 Test Setup



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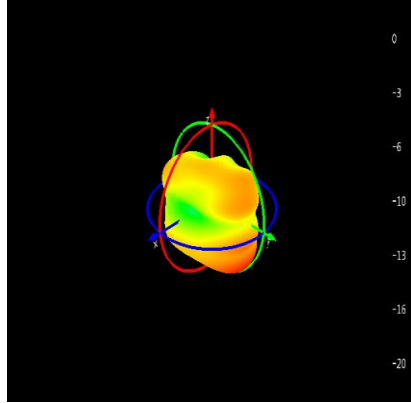
DOCUMENT NO.

PAGE REV.
P0

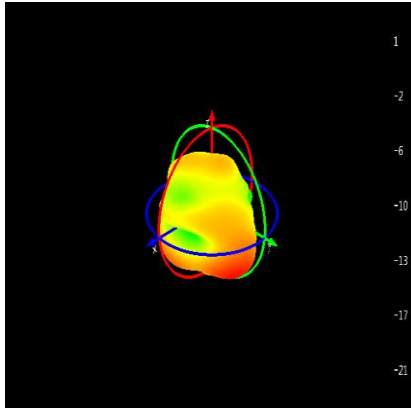
| | | | | | | | |
|------|------|-------|-------|------|------|-------|-------|
| 5400 | 1.31 | -7.79 | 16.64 | 5750 | 2.50 | -5.78 | 26.4 |
| 5450 | 1.98 | -7.79 | 16.62 | 5800 | 1.97 | -5.92 | 25.58 |
| | | | | 5850 | 1.49 | -6.38 | 23.04 |

5. Antenna 3D Radiation Pattern:

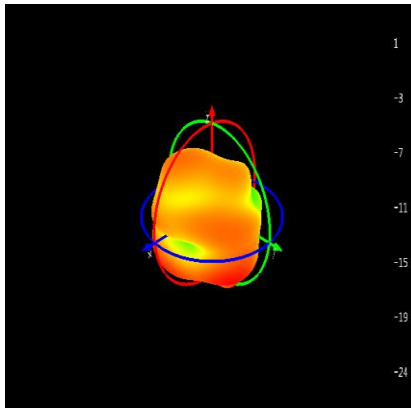
-GPS1575MHZ



-BT/WIFI 2400MHZ



-BT/WIFI 2500MHZ



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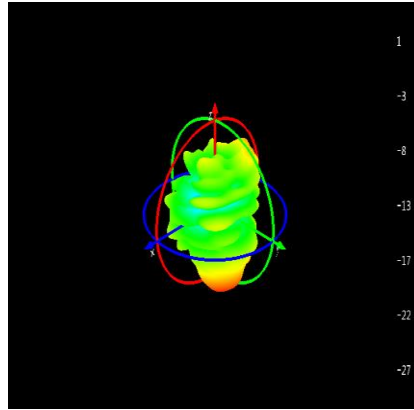
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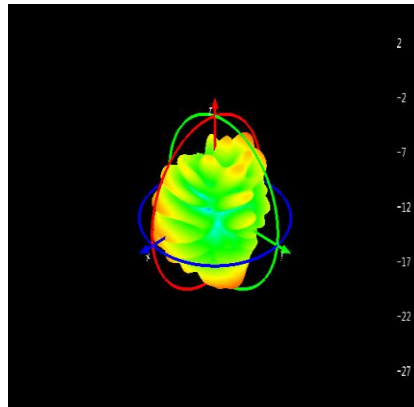
DOCUMENT NO.

PAGE REV.
P0

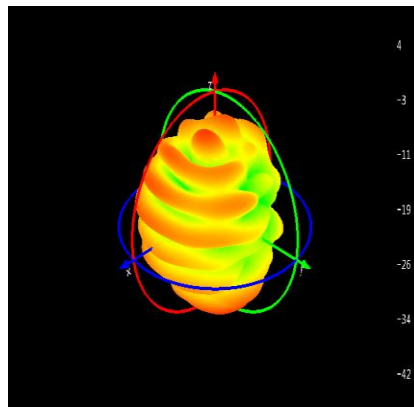
-WIFI 5G 5150MHZ



- WIFI 5G 5500MHZ



- WIFI 5G 5850MHZ



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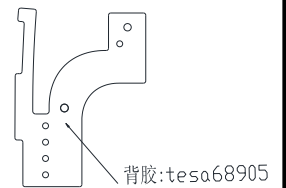
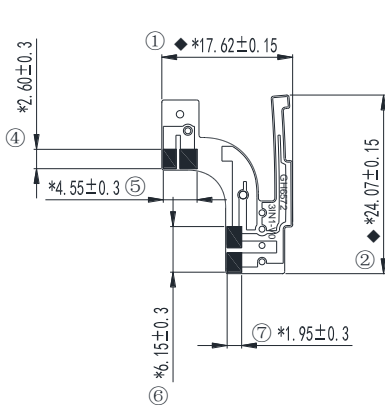
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6. Mechanical Specification:



| | | | |
|--|-------------------|---|-----------------|
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| DRAWN BY: 王婷 | CHECKED BY: 张涛 | | |
| DESIGNED BY: 吴振江 | APPROVED BY : 范东亚 | | |
| TITLE: WAG-F-LBG0-00-040 Specification | | DOCUMENT NO. | PAGE REV. P0 |