

## Measurement of Antenna for OS3 Project

Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

### 1. Antenna Appearance:

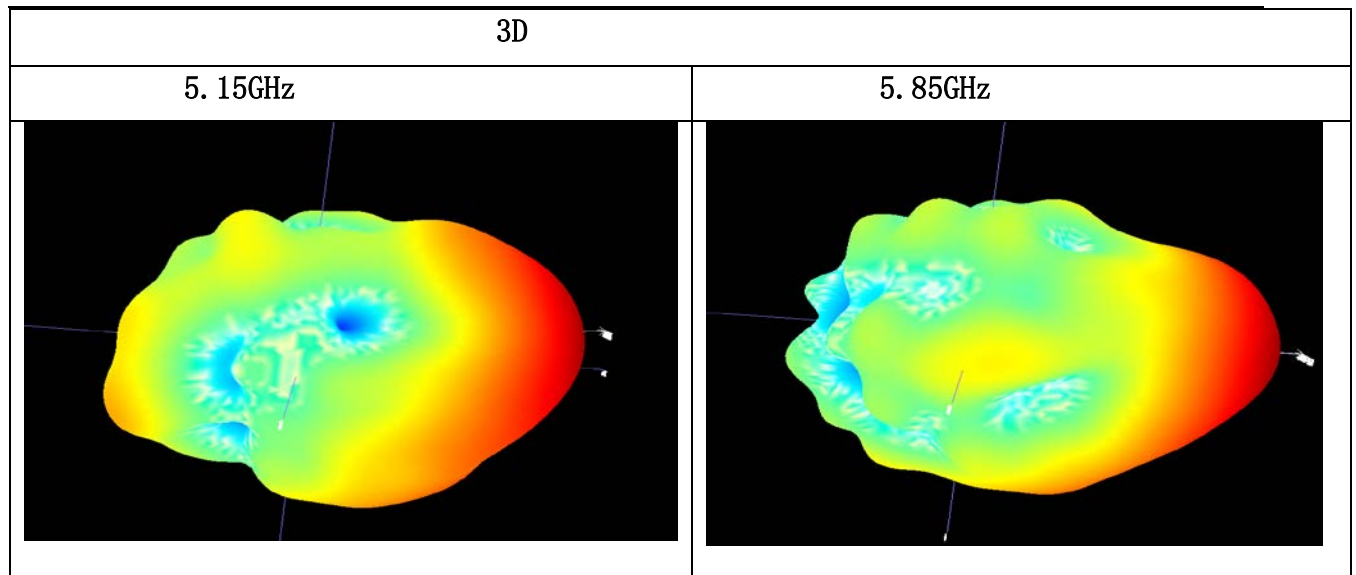


### 2. Electrical performance test results at normal temperature

## 5G Antenna

| No | Test Item       | Unit | Demand Performance | Test Result |       | Judgement |
|----|-----------------|------|--------------------|-------------|-------|-----------|
| 1  | Frequency Range | MHz  | 5150-5850          | 5150-5850   |       | OK        |
| 2  | Gain            | dBi  | 11                 | 5150        | 10.32 | OK        |
|    |                 |      |                    | 5250        | 11.17 | OK        |
|    |                 |      |                    | 5350        | 11.51 | OK        |
|    |                 |      |                    | 5450        | 11.81 | OK        |
|    |                 |      |                    | 5500        | 11.82 | OK        |
|    |                 |      |                    | 5650        | 11.86 | OK        |
|    |                 |      |                    | 5750        | 11.49 | OK        |
|    |                 |      |                    | 5850        | 11.29 | OK        |
| 3  | Return loss     | dB   | $\leq -10$         | 5150        | -25   | OK        |
|    |                 |      |                    | 5500        | -12   | OK        |
|    |                 |      |                    | 5850        | -15   | OK        |
|    |                 |      |                    |             |       |           |

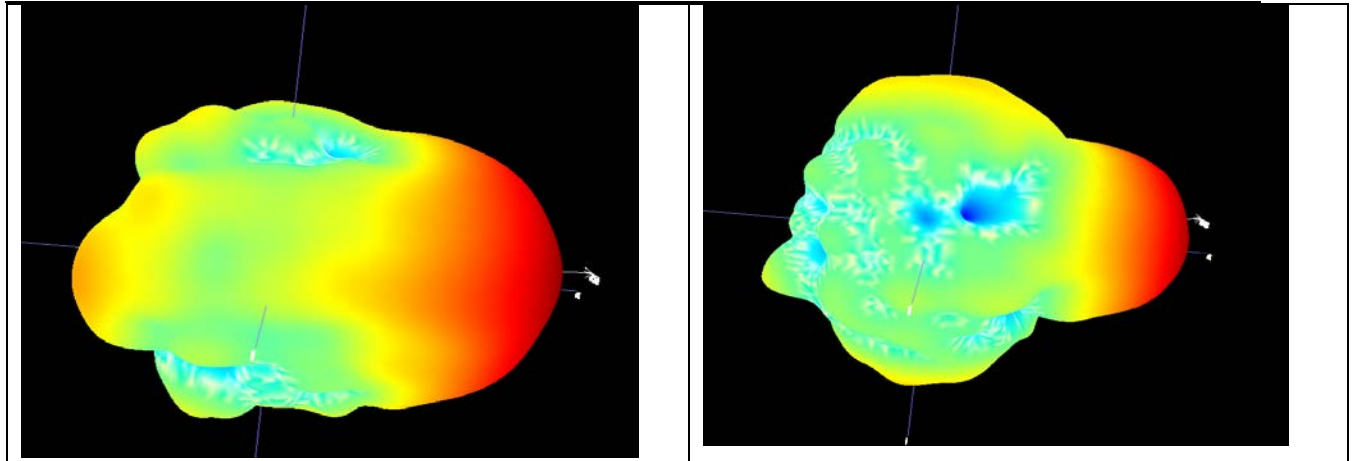
| Data      |                  | Direction V   |
|-----------|------------------|---------------|
| Frequency | E Total. dB(dBi) | Efficiency( ) |
| 4900MHz   | 9.86             | 64%           |
| 4950MHz   | 9.86             | 67%           |
| 5000MHz   | 9.27             | 65%           |
| 5050MHz   | 9.59             | 71%           |
| 5100MHz   | 9.9              | 73%           |
| 5150MHz   | 10.32            | 70%           |
| 5200MHz   | 10.58            | 70%           |
| 5250MHz   | 11.17            | 71%           |
| 5300MHz   | 11.48            | 72%           |
| 5350MHz   | 11.51            | 71%           |
| 5400MHz   | 11.61            | 72%           |
| 5450MHz   | 11.81            | 74%           |
| 5500MHz   | 11.82            | 73%           |
| 5550MHz   | 11.78            | 73%           |
| 5600MHz   | 11.63            | 71%           |
| 5650MHz   | 11.86            | 75%           |
| 5700MHz   | 11.68            | 74%           |
| 5750MHz   | 11.49            | 74%           |
| 5800MHz   | 11.44            | 75%           |
| 5850MHz   | 11.29            | 77%           |
| 5900MHz   | 10.91            | 73%           |
| 5950MHz   | 10.75            | 72%           |
| 6000MHz   | 10.6             | 70%           |



| Data      |                  | Direction H   |
|-----------|------------------|---------------|
| Frequency | E Total. dB(dBi) | Efficiency( ) |
| 4900MHz   | 8.65             | 60%           |
| 4950MHz   | 9.04             | 65%           |
| 5000MHz   | 9.03             | 64%           |
| 5050MHz   | 9.49             | 71%           |
| 5100MHz   | 9.61             | 72%           |
| 5150MHz   | 9.74             | 69%           |
| 5200MHz   | 10.1             | 70%           |
| 5250MHz   | 10.67            | 71%           |
| 5300MHz   | 11.1             | 73%           |
| 5350MHz   | 11.17            | 71%           |
| 5400MHz   | 11.23            | 72%           |
| 5450MHz   | 11.35            | 74%           |
| 5500MHz   | 11.3             | 72%           |
| 5550MHz   | 11.25            | 73%           |
| 5600MHz   | 10.98            | 70%           |
| 5650MHz   | 11.25            | 75%           |
| 5700MHz   | 10.99            | 73%           |
| 5750MHz   | 10.86            | 73%           |
| 5800MHz   | 10.98            | 74%           |
| 5850MHz   | 10.98            | 75%           |
| 5900MHz   | 10.65            | 72%           |
| 5950MHz   | 10.57            | 71%           |
| 6000MHz   | 10.48            | 70%           |
| 3D        |                  |               |
| 5.15GHz   | 5.85GHz          |               |



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The maximum antenna gain at any elevation angle above 30 degrees as measured from the horizon is 0dBi.

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