

# Shenzhen Be-Comfortable Technology Co. Ltd

## SPECIFICATION FOR APPROVAL

|                          |                |
|--------------------------|----------------|
| <b>Customer</b>          | Our firm union |
| <b>Project Name</b>      | C10            |
| <b>Customer NO.</b>      |                |
| <b>specification</b>     | WIFI antenna   |
| <b>Supplier NO.</b>      | N12-6760-R0A   |
| <b>Specification NO.</b> |                |
| Write by                 | Mingchao Zhang |
| <b>REV.</b>              | Ver.01         |
| <b>Date</b>              | 2023/15/6      |
| <b>Note</b>              |                |

| CUSTOMER APPROVED BY |            |             |
|----------------------|------------|-------------|
| Approved by          | Checked by | Prepared by |
|                      |            |             |
| SUPPLIER APPROVED BY |            |             |
| Approved by          | Checked by | Prepared by |
|                      |            |             |

# Shenzhen Be-Comfortable Technology Co. Ltd

| Version change record |                    |         |                 |          |
|-----------------------|--------------------|---------|-----------------|----------|
| Change the date       | Change the content | version | Change a person | approver |
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## 1. List of admission items (Index)

| The serial number | content                           | The page number |
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## 2. (Test Equipment & Conditions)

2.1. Network Analyzers : KEYSIGHT P5002A

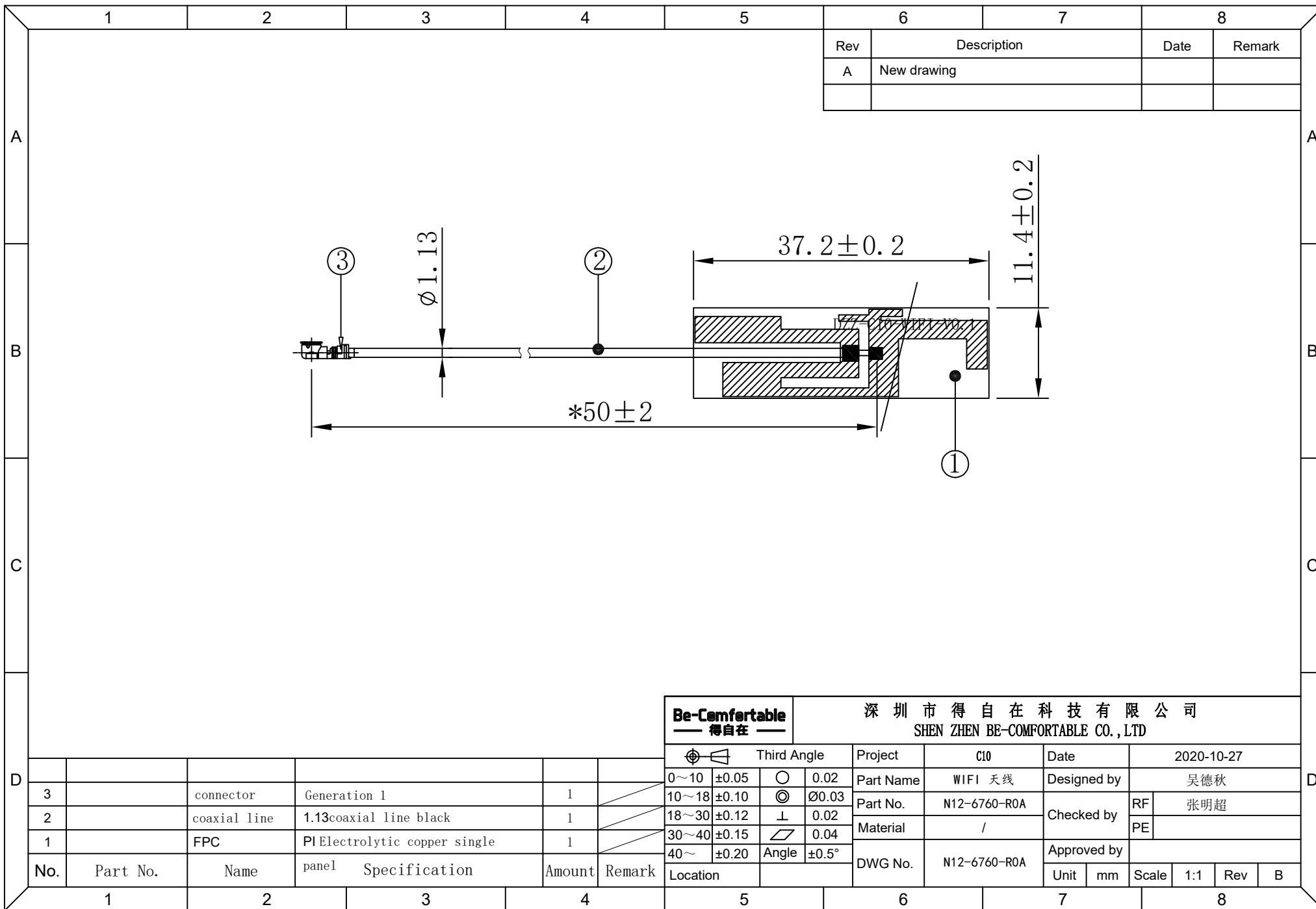
2.2. Communications Test Set: R&S CMW 500

2.3. 3D Chamber Test System: 64 Probe test system

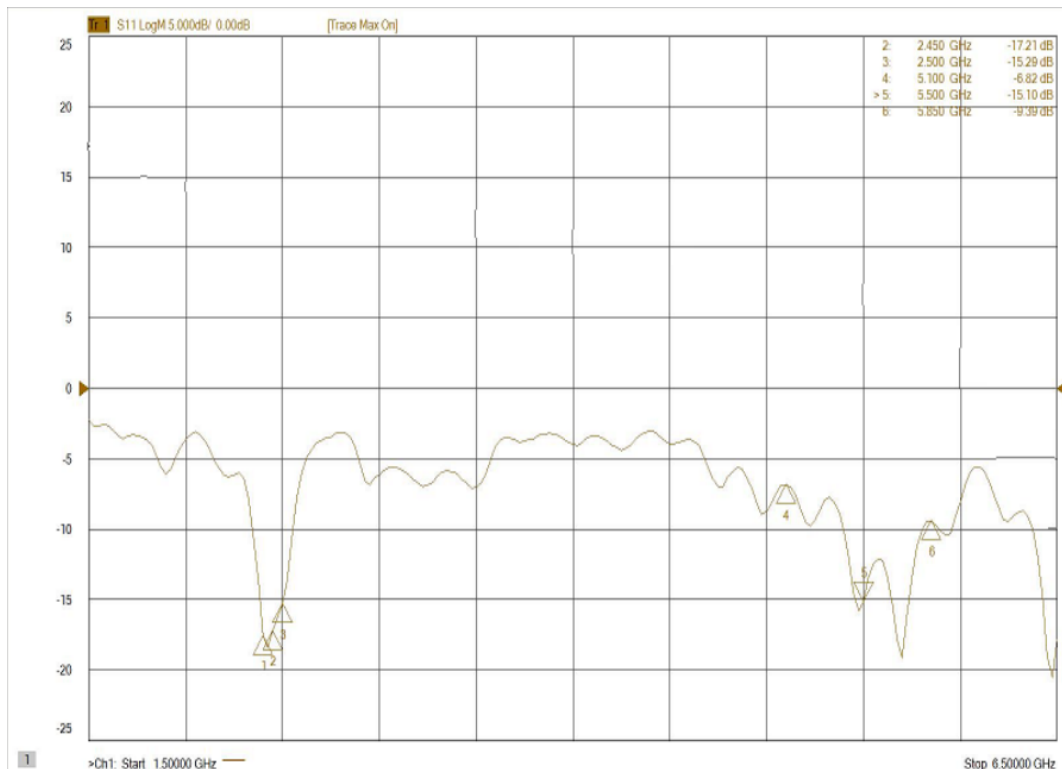


### 3. (Mechanical instruction)





## 4.The WIFI-1 Ant- S11



## 5. Gain & Efficiency /3D Pattern

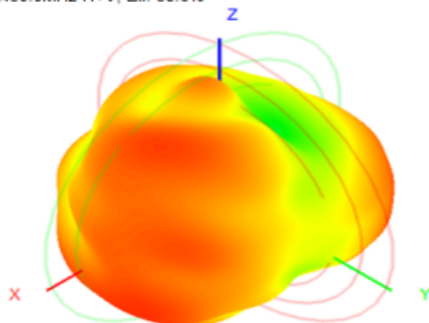
| Frequency ID     | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)  | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Efficiency (dBi) | -2.23  | -2.22  | -2.24  | -2.25  | -2.31  | -2.32  | -2.31  | -2.27  | -2.26  | -2.24  | -2.37  |
| Gain (dBi)       | 3.35   | 3.49   | 3.61   | 3.74   | 3.88   | 4.04   | 4.11   | 4.04   | 3.65   | 3.48   | 3.45   |
| Efficiency (%)   | 59.82  | 59.96  | 59.76  | 59.60  | 58.75  | 58.57  | 58.81  | 59.27  | 59.37  | 59.75  | 57.91  |

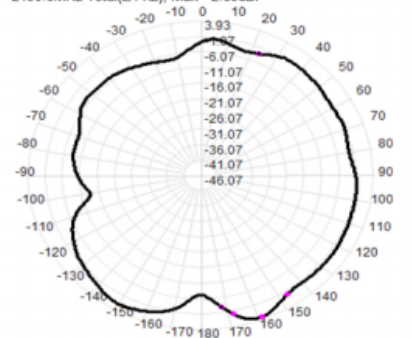
| Frequency ID     | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13     | 14     | 15     | 16     |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)  | 2500.0 | 5150.0 | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| Efficiency (dBi) | -2.37  | -2.67  | -2.84  | -2.66  | -2.81  | -2.70  | -2.47  | -2.46  | -2.35  | -2.26  | -2.14  | -2.06  | -2.01  | -2.11  | -2.04  | -2.00  |
| Gain (dBi)       | 3.45   | 4.35   | 3.88   | 3.77   | 3.14   | 2.43   | 2.68   | 2.24   | 2.32   | 2.20   | 2.29   | 2.37   | 2.42   | 2.60   | 2.86   | 2.83   |
| Efficiency (%)   | 57.91  | 54.05  | 51.97  | 54.21  | 52.33  | 53.71  | 56.60  | 56.79  | 58.27  | 59.45  | 61.07  | 62.25  | 63.02  | 61.56  | 62.46  | 63.17  |

## 5. 3D Pattern

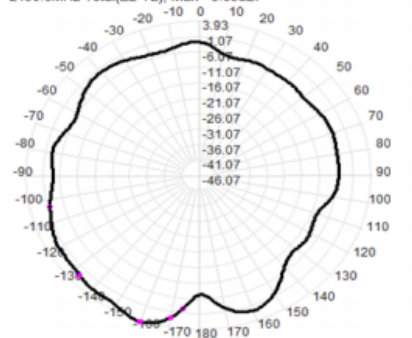
2450.0MHz H+V, Eff: 58.6%



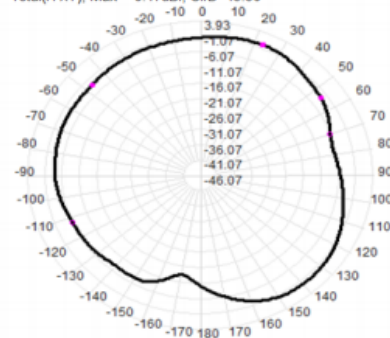
2450.0MHz Total(E1-XZ), Max= 2.83dBi



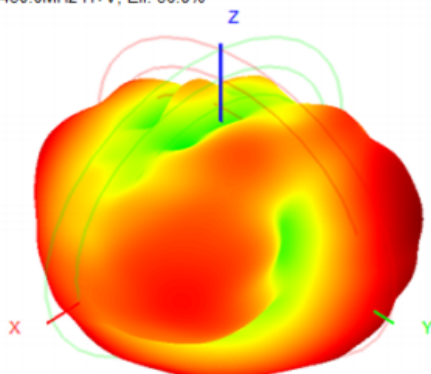
2450.0MHz Total(E2-YZ), Max= 3.93dBi



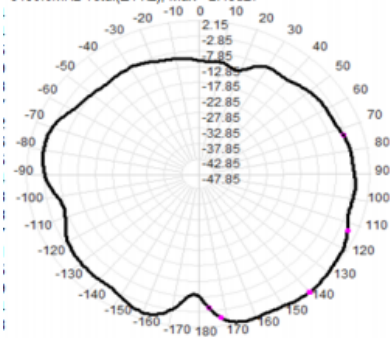
Total(H-XY), Max= -0.17dBi, CirD=13.56



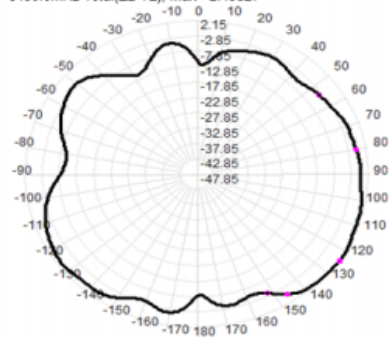
5450.0MHz H+V, Eff: 56.8%



5450.0MHz Total(E1-XZ), Max= 2.15dBi



5450.0MHz Total(E2-YZ), Max= 2.15dBi



Total(H-XY), Max= 1.16dBi, CirD=12.40

