

Shenzhen Haotiancheng Wireless  
Technology Co., Ltd

Name: Sample Approval

Ver: V1.0

date: 2023.12.21

## Sample Approval Sheet

Project Name: S6535Sample Name: Main+DIV+WIFI/BT antennaSample SPEC: FPC material, gold-plated, 3M300 backing adhesive

Customer PN.:

Transfer Date: 2023.12.21

| Supplier Confirm | Project    | Engineer      | Quality    |
|------------------|------------|---------------|------------|
|                  | Xiao Qiang | Michael huang | Gu Shuang  |
| date             | 2023.12.21 | 2023.12.21    | 2023.12.21 |

| Customer confirm | PM | Electron | MD | PD | QE |
|------------------|----|----------|----|----|----|
|                  |    |          |    |    |    |
| date             |    |          |    |    |    |

|            |                             |                                                |                               |
|------------|-----------------------------|------------------------------------------------|-------------------------------|
| conclusion | <input type="checkbox"/> MP | <input type="checkbox"/> Limits use (      ) K | <input type="checkbox"/> ROHS |
|------------|-----------------------------|------------------------------------------------|-------------------------------|

Supplier name:Shenzhen Haotiancheng Wireless Technology Co., Ltd

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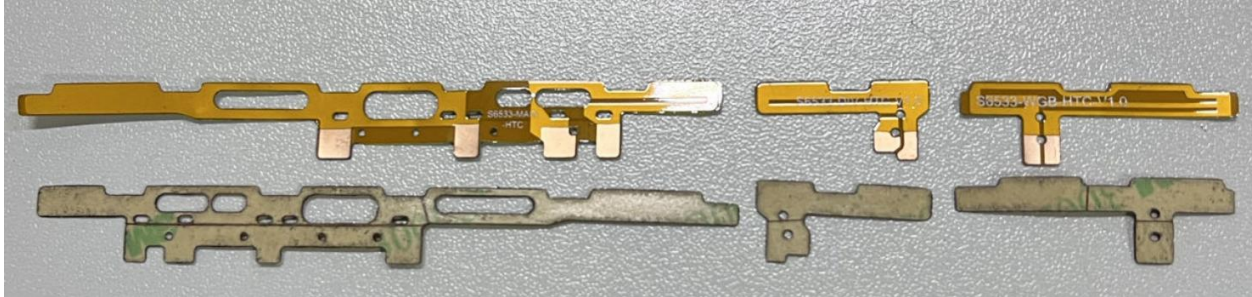
## Directory

|                                                         |           |
|---------------------------------------------------------|-----------|
| <b>1. Overview of Recognition Letter .....</b>          | <b>3</b>  |
| <b>2. Appearance .....</b>                              | <b>3</b>  |
| <b>3.2. Matching circuit .....</b>                      | <b>3</b>  |
| <b>3.3.Impedance requirements .....</b>                 | <b>4</b>  |
| <b>3.4.Antenna passive gain and apple diagram .....</b> | <b>4</b>  |
| <b>3.5. Antenna test data .....</b>                     | <b>7</b>  |
| <b>3.6. Secondary antenna test data .....</b>           | <b>7</b>  |
| <b>3.7.environmental treatment .....</b>                | <b>8</b>  |
| <b>4. Appearance structure .....</b>                    | <b>9</b>  |
| <b>4.1 Antenna material .....</b>                       | <b>9</b>  |
| <b>4.2 Structural drawings .....</b>                    | <b>10</b> |
| <b>5. Packaging method .....</b>                        | <b>13</b> |

## 1. Overview of Recognition Letter

This acknowledgment describes the condition of the built-in antenna of the Rui Ou S6535, with its frequency band LTE/GSM/WCDMA/WIFI/BT/GPS/NFC, manufactured by Shenzhen Haotiancheng Wireless Technology Co., Ltd.

## 2. Appearance

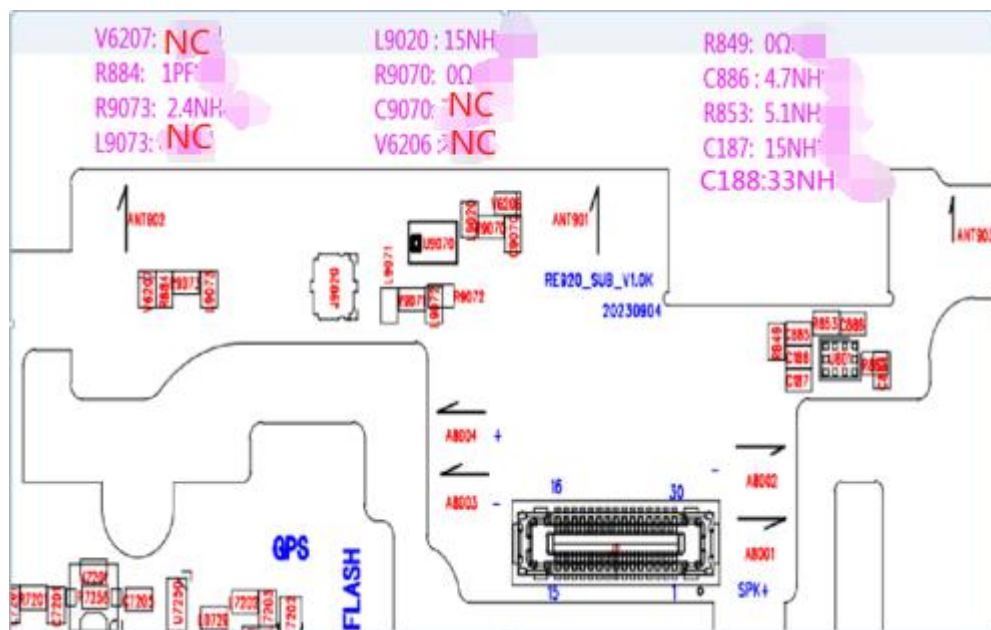


### Electrical performance

#### 2.1. Antenna frequency band

|                               | 4G       | WIFI/BT   | GPS  |
|-------------------------------|----------|-----------|------|
| transmit frequency band(MHz)  | 824~2690 | 2400~2500 |      |
| Receiving frequency band(MHz) | 894~2690 | 2400~2500 | 1575 |

#### 3.2. Matching circuit



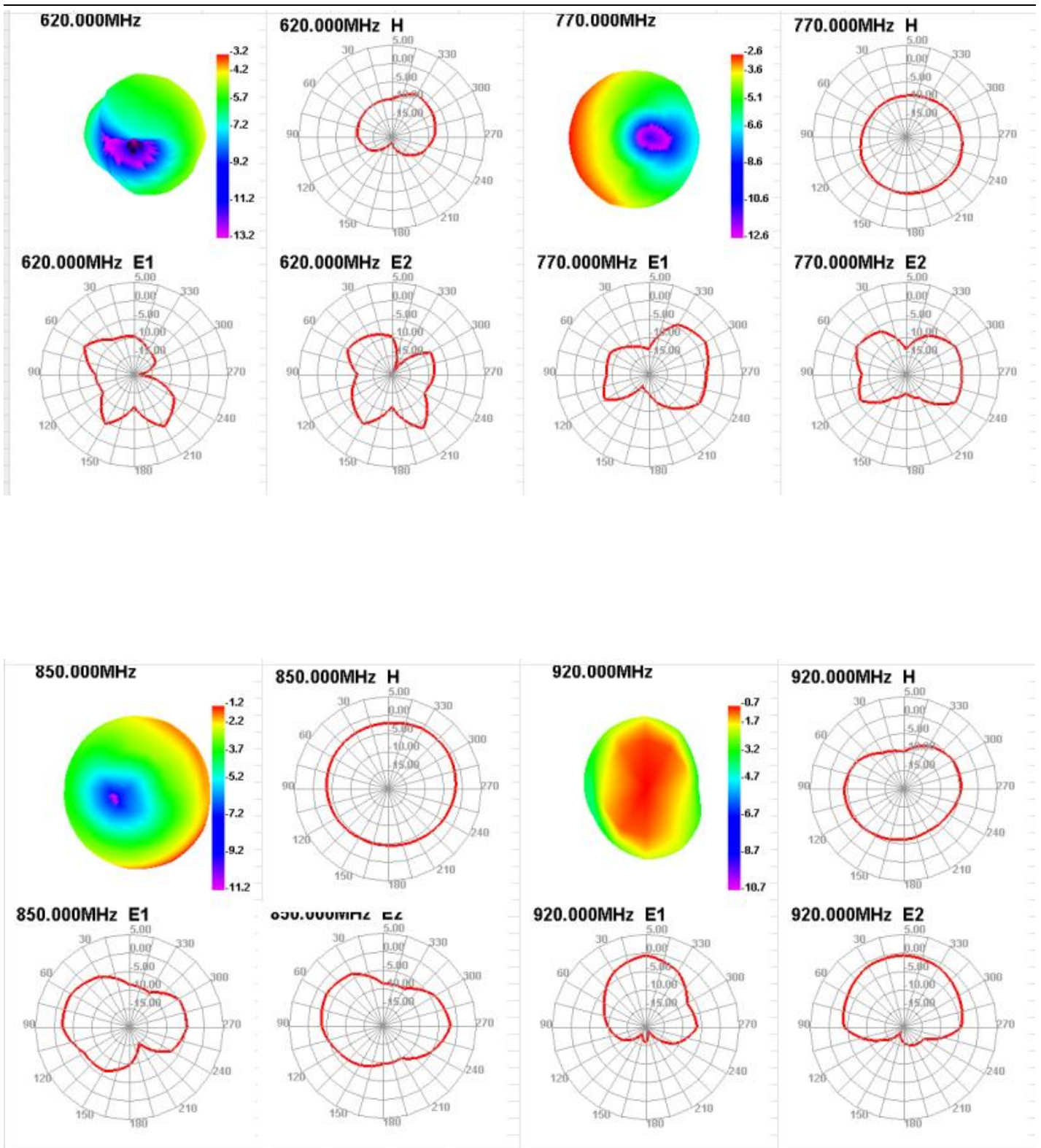
| RF tuning switch | Control frequency band                    |
|------------------|-------------------------------------------|
| RF1 (4.7nH)      | GSM900 WCDMA                              |
| RF2 (5.6nH)      | GSM850 WCDMA-B5 LTE-B5                    |
| RF3 (15nH)       | LTE-B12/13                                |
| RF4 (33nH)       | LTE-B71                                   |
|                  |                                           |
| Divider control  | DCS1800 PCS1900 WCDMA-B2/4 LTE-B2/4/66/41 |

### 3.3.Impedance requirements

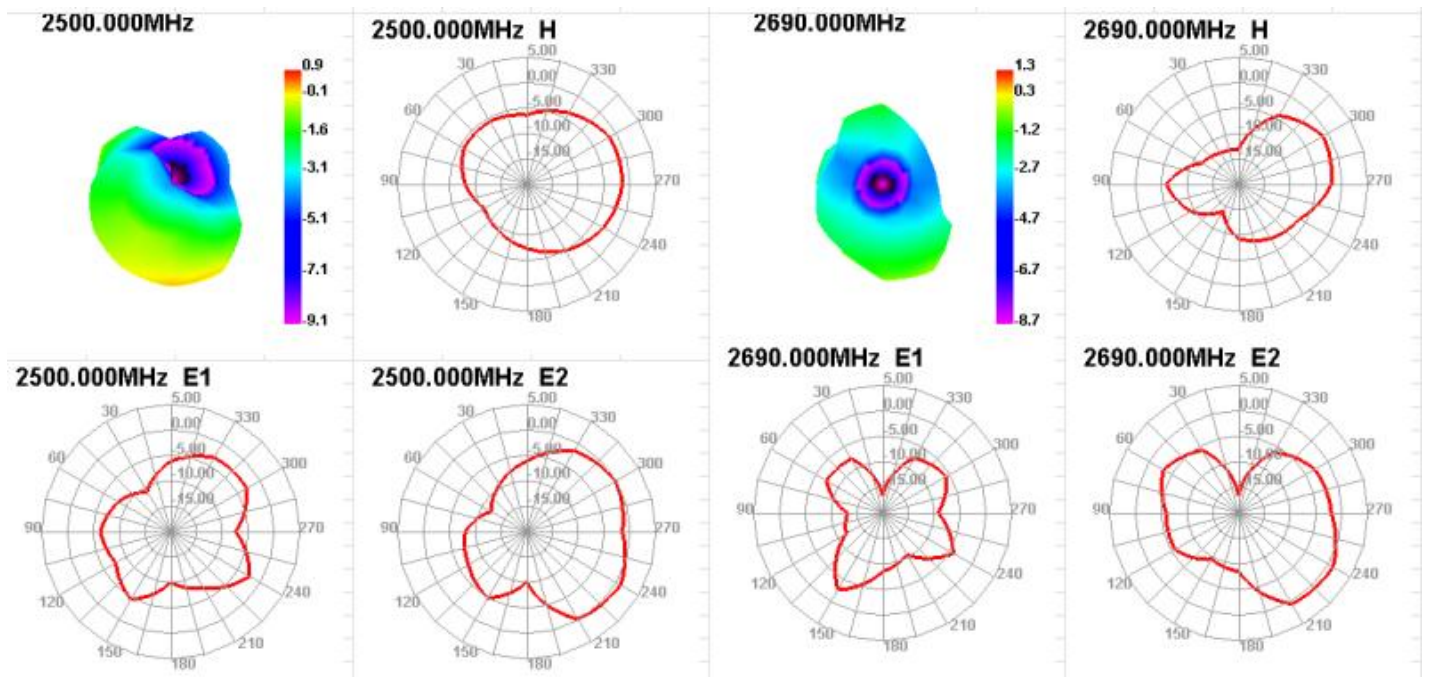
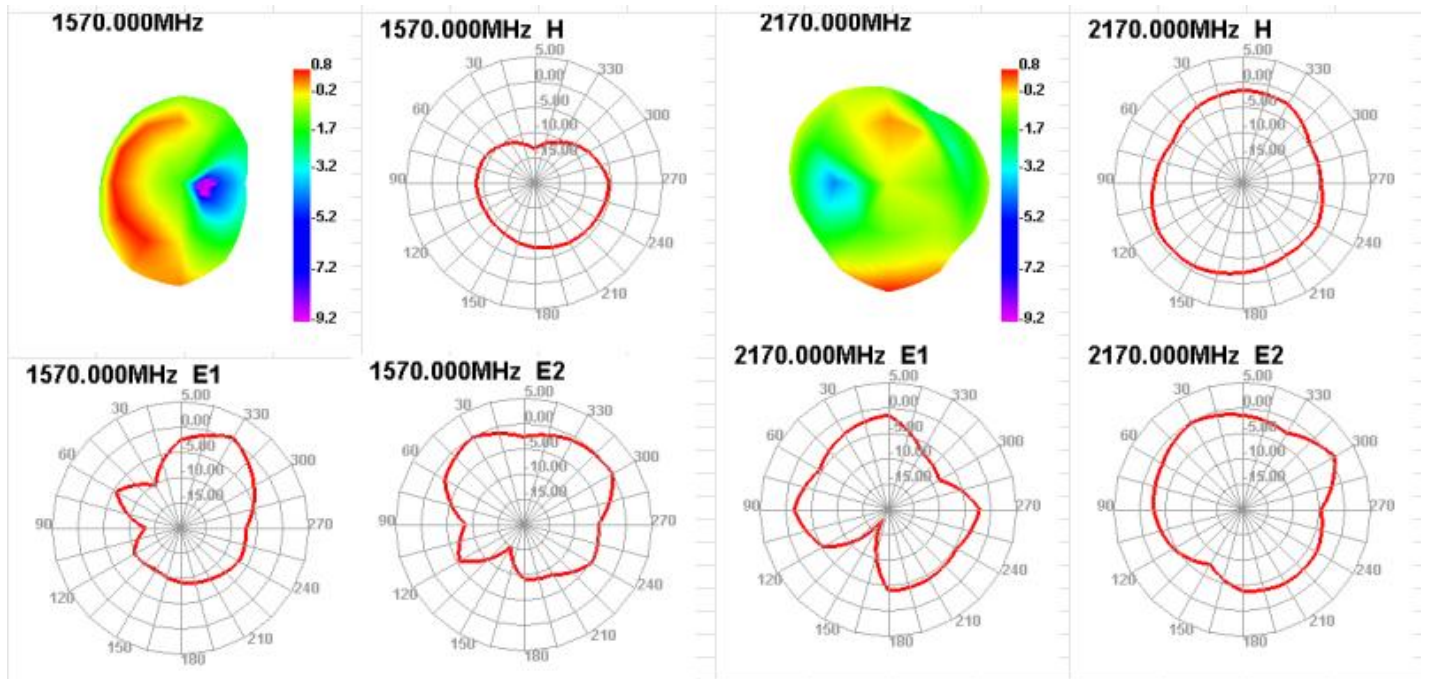
50 ohm

### 3.4.Antenna passive gain and apple diagram

| Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) | Freq (MHz) | Gain (dBi) |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 600        | -3.01      | 700        | -2.76      | 820        | -1.12      | 880        | -0.76      | 1500       | -0.18      | 1710       | 0.41       | 2400       | 0.95       | 2300       | 0.45       |
| 610        | -3.83      | 710        | -2.92      | 830        | -1.02      | 890        | -0.92      | 1510       | -0.39      | 1720       | 0.68       | 2410       | 0.91       | 2310       | 0.42       |
| 620        | -3.25      | 720        | -2.61      | 840        | -1.68      | 900        | -0.61      | 1520       | -0.37      | 1730       | 0.8        | 2420       | 0.91       | 2320       | 0.38       |
| 630        | -2.21      | 730        | -2.98      | 850        | -1.27      | 910        | -0.98      | 1530       | -0.41      | 1740       | 0.77       | 2430       | 2.05       | 2330       | 0.28       |
| 640        | -2.63      | 740        | -2.78      | 860        | -1.25      | 920        | -0.78      | 1540       | -0.21      | 1750       | 0.88       | 2440       | 1.47       | 2340       | 0.22       |
| 650        | -2.51      | 750        | -2.74      | 870        | -1.96      | 930        | -0.74      | 1550       | 0.21       | 1760       | 0.99       | 2450       | 1.55       | 2350       | 0.42       |
| 660        | -2.02      | 760        | -2.6       | 880        | -1.99      | 940        | -0.6       | 1560       | 0.56       | 1770       | 0.99       | 2460       | 1.23       | 2360       | 0.37       |
| 670        | -2.53      | 770        | -2.65      | 890        | -2.27      | 950        | -1.87      | 1570       | 0.78       | 1780       | 1.15       | 2470       | 1          | 2370       | 0.51       |
| 680        | -2.76      |            |            |            |            | 960        | -1.68      | 1580       | 0.82       | 1790       | 1.1        | 2480       | 1.01       | 2380       | 0.29       |
| 690        | -2.93      |            |            |            |            |            |            | 1590       | 0.63       | 1800       | 1.24       | 2490       | 1.13       | 2390       | 0.03       |
| 700        | -2.52      |            |            |            |            |            |            |            |            | 1810       | 1.34       | 2500       | 0.9        | 2400       | 0.12       |
|            |            |            |            |            |            |            |            |            |            | 1820       | 1.39       |            |            | 2410       | 0.25       |
|            |            |            |            |            |            |            |            |            |            | 1830       | 1.44       |            |            | 2420       | 0.29       |
|            |            |            |            |            |            |            |            |            |            | 1840       | 1.5        |            |            | 2430       | 0.6        |
|            |            |            |            |            |            |            |            |            |            | 1850       | 1.59       |            |            | 2440       | 0.88       |
|            |            |            |            |            |            |            |            |            |            | 1860       | 1.5        |            |            | 2450       | 1.03       |
|            |            |            |            |            |            |            |            |            |            | 1870       | 1.18       |            |            | 2460       | 1.12       |
|            |            |            |            |            |            |            |            |            |            | 1880       | 0.76       |            |            | 2470       | 0.9        |
|            |            |            |            |            |            |            |            |            |            | 1890       | 0.4        |            |            | 2480       | 0.87       |
|            |            |            |            |            |            |            |            |            |            | 1900       | 0.18       |            |            | 2490       | 0.78       |
|            |            |            |            |            |            |            |            |            |            | 1910       | 0.14       |            |            | 2500       | 0.72       |
|            |            |            |            |            |            |            |            |            |            | 1920       | 1.4        |            |            | 2510       | 0.58       |
|            |            |            |            |            |            |            |            |            |            | 1930       | 1.82       |            |            | 2520       | 0.31       |
|            |            |            |            |            |            |            |            |            |            | 1940       | 1.15       |            |            | 2530       | 0.26       |
|            |            |            |            |            |            |            |            |            |            | 1950       | 1.53       |            |            | 2540       | 0.2        |
|            |            |            |            |            |            |            |            |            |            | 1960       | 1.46       |            |            | 2550       | 0.24       |
|            |            |            |            |            |            |            |            |            |            | 1970       | 0.83       |            |            | 2570       | 0.19       |
|            |            |            |            |            |            |            |            |            |            | 1980       | 0.91       |            |            | 2580       | 0.02       |
|            |            |            |            |            |            |            |            |            |            | 1990       | 0.93       |            |            | 2590       | 0.02       |
|            |            |            |            |            |            |            |            |            |            | 2000       | 0.27       |            |            | 2600       | 0.28       |
|            |            |            |            |            |            |            |            |            |            | 2010       | 0.25       |            |            | 2610       | 0.44       |
|            |            |            |            |            |            |            |            |            |            | 2020       | 0.19       |            |            | 2620       | 0.67       |
|            |            |            |            |            |            |            |            |            |            | 2030       | 0.12       |            |            | 2630       | 1.08       |
|            |            |            |            |            |            |            |            |            |            | 2040       | 1.53       |            |            | 2640       | 1.2        |
|            |            |            |            |            |            |            |            |            |            | 2050       | 1.17       |            |            | 2650       | 1.55       |
|            |            |            |            |            |            |            |            |            |            | 2060       | 0.84       |            |            | 2660       | 1.61       |
|            |            |            |            |            |            |            |            |            |            | 2070       | 0.61       |            |            | 2670       | 1.61       |
|            |            |            |            |            |            |            |            |            |            | 2080       | 0.65       |            |            | 2680       | 1.27       |
|            |            |            |            |            |            |            |            |            |            | 2090       | 0.55       |            |            | 2690       | 1.32       |
|            |            |            |            |            |            |            |            |            |            | 2100       | 0.7        |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2110       | 0.33       |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2120       | 0.17       |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2130       | 0.07       |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2140       | 0          |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2150       | 0.27       |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2160       | 0.57       |            |            |            |            |
|            |            |            |            |            |            |            |            |            |            | 2170       | 0.81       |            |            |            |            |







## 3.5. Antenna test data

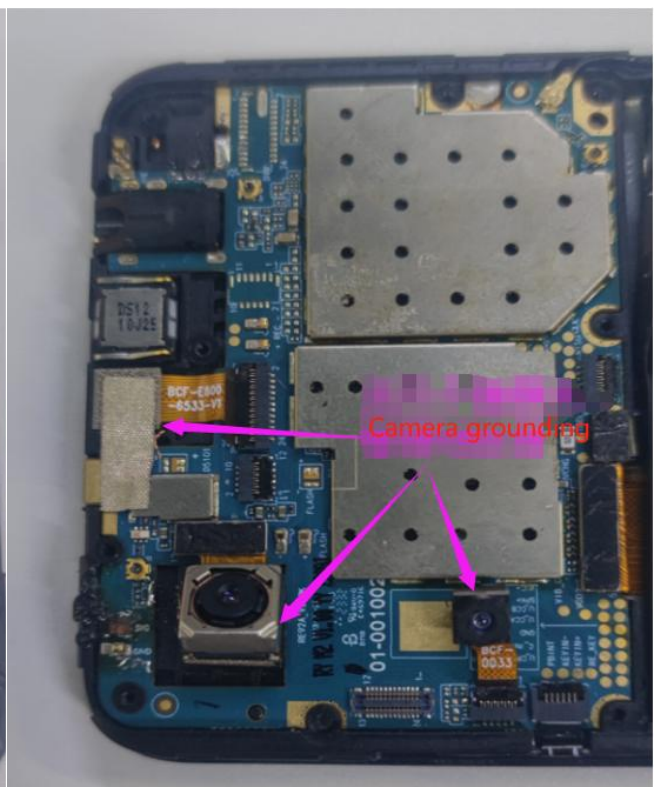
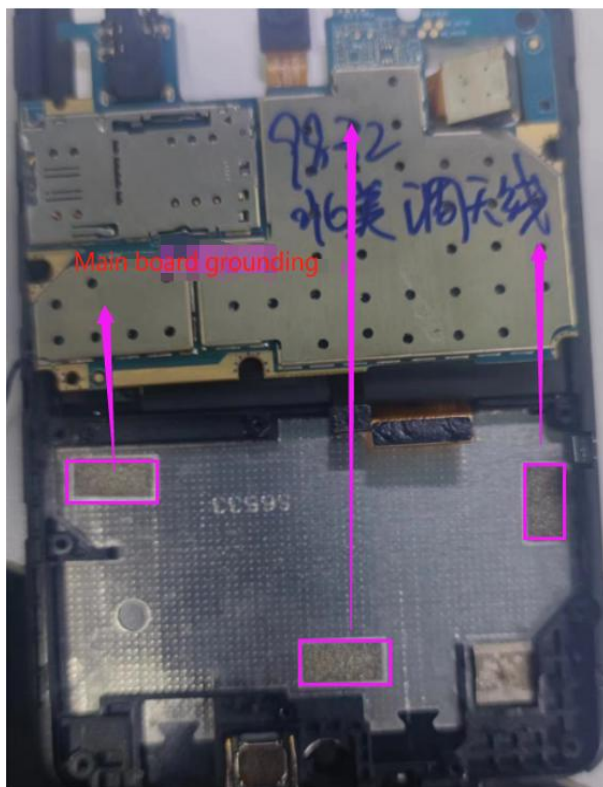
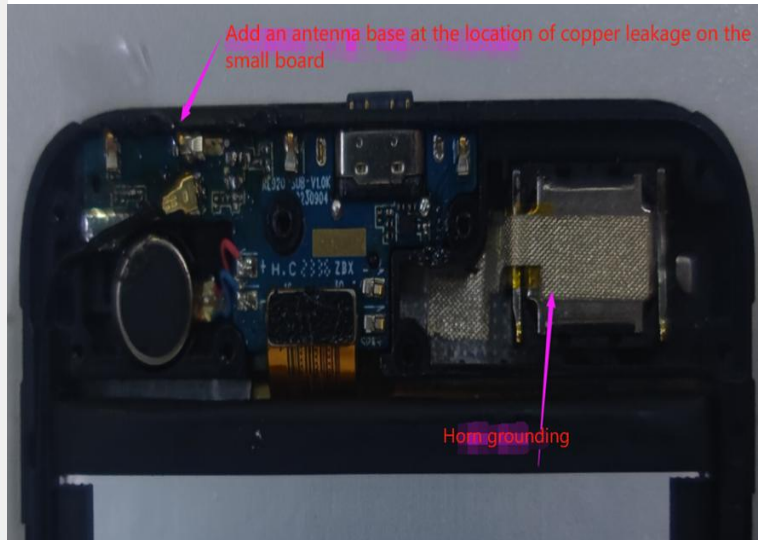
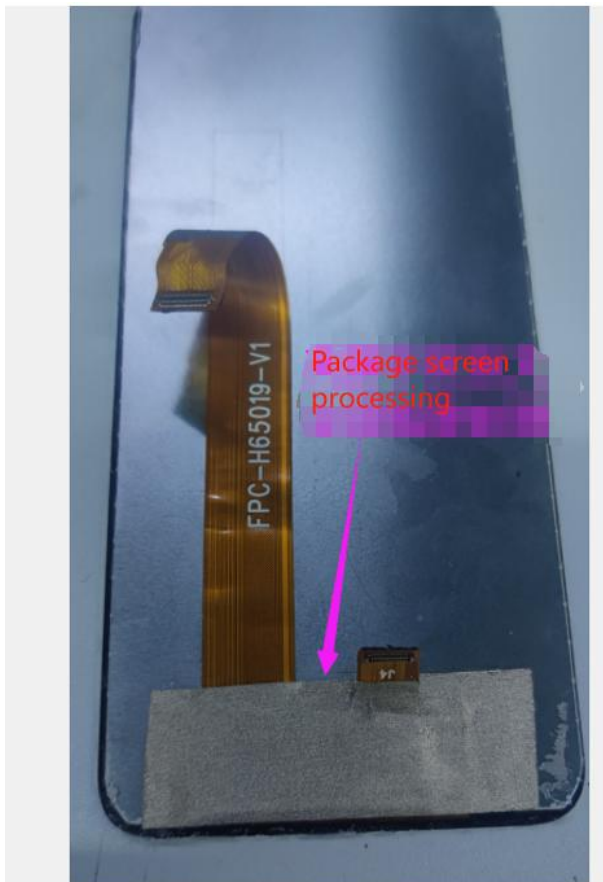
| Band      | TRP/TIS | L     | M     | H       | Band    | TRP/TIS | L     | M     | H      |
|-----------|---------|-------|-------|---------|---------|---------|-------|-------|--------|
| GSM850    | TRP     | 25.98 | 26.05 | 26.01   | LTE-B2  | TRP     | 15.21 | 15.16 | 15.17  |
|           | TIS     |       |       | -103.05 |         | TIS     |       |       | -90.87 |
| GSM900    | TRP     | 26.12 | 25.87 | 25.83   | LTE-B4  | TRP     | 15.59 | 15.54 | 15.38  |
|           | TIS     |       |       | -102.54 |         | TIS     |       |       | -90.18 |
| DCS1800   | TRP     | 23.26 | 23.15 | 23.34   | LTE-B5  | TRP     | 17.83 | 17.69 | 17.56  |
|           | TIS     |       |       | -102.27 |         | TIS     |       |       | -91.23 |
| PCS1900   | TRP     | 23.59 | 23.51 | 23.46   | LTE-B12 | TRP     | 16.83 | 17.25 | 17.64  |
|           | TIS     |       |       | -102.33 |         | TIS     |       |       | -90.34 |
| WCDMA850  | TRP     | 17.71 | 17.82 | 17.79   | LTE-B13 | TRP     | 16.85 | 16.94 | 17.01  |
|           | TIS     |       |       | -104.58 |         | TIS     |       |       | -90.33 |
| WCDMA1700 | TRP     | 15.63 | 15.44 | 15.38   | LTE-B66 | TRP     | 15.34 | 15.38 | 15.44  |
|           | TIS     |       |       | -104.15 |         | TIS     |       |       | -90.16 |
| WCDMA1900 | TRP     | 15.26 | 15.35 | 15.22   | LTE-B71 | TRP     | 15.08 | 15.62 | 15.89  |
|           | TIS     |       |       | -104.16 |         | TIS     |       |       | -89.21 |
|           | TRP     |       |       |         | LTE-B41 | TRP     | 15.34 | 15.17 | 15.35  |
|           | TIS     |       |       |         |         | TIS     |       |       | -87.65 |

## 3.6. Secondary antenna test data

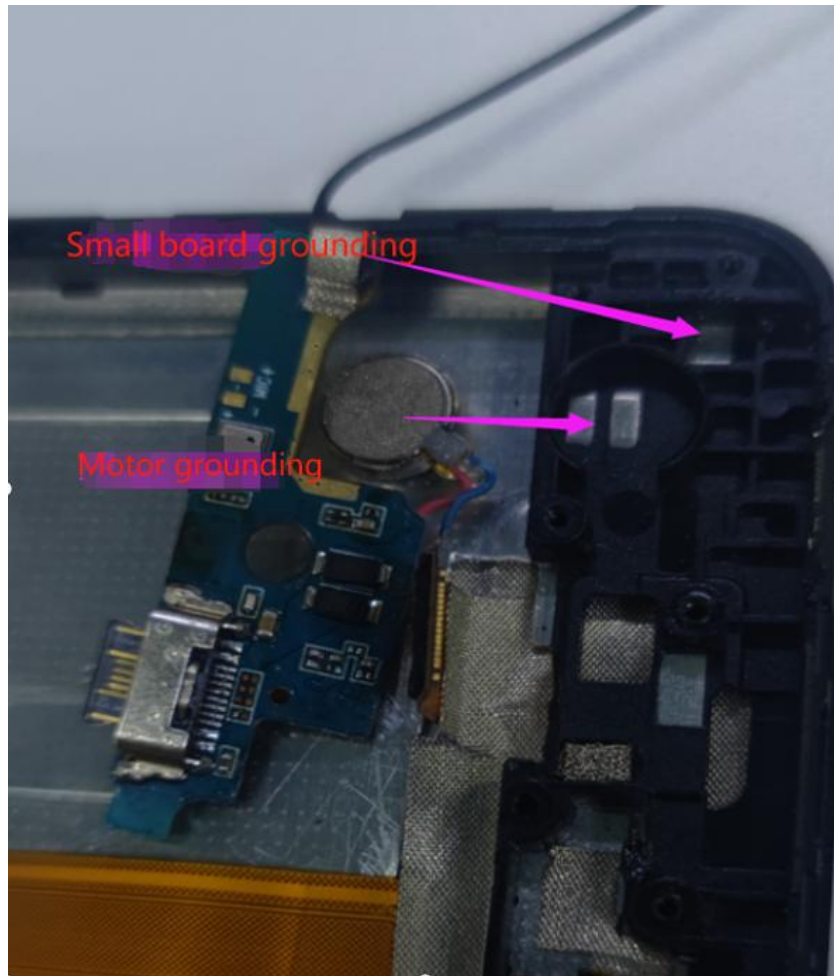
|           |                                    |                                 |
|-----------|------------------------------------|---------------------------------|
| GPS<br>BD | Maximum<br>m signal<br>strength    | Number<br>of<br>search<br>stars |
|           | 41                                 | 7                               |
|           | Average<br>positioni<br>ng time    | Weather<br>conditio<br>ns       |
|           | 35S                                | cloudy<br>day                   |
| WIFI      | Normal internet<br>distance        |                                 |
|           | 25                                 |                                 |
|           | Smooth distance of<br>online video |                                 |
|           | 15                                 |                                 |
| BT        | Normal call<br>distance            |                                 |
|           | 15                                 |                                 |



### 3.7.environmental treatment







#### 4. Appearance structure

##### 4.1 Antenna material

Antenna material: FPC antenna, Colour is yellow, gold plated in exposed copper area.  
Substrate+double-sided tape+release paper

## 4.2 Structural drawings

# MAIN-ANT

NOTE:

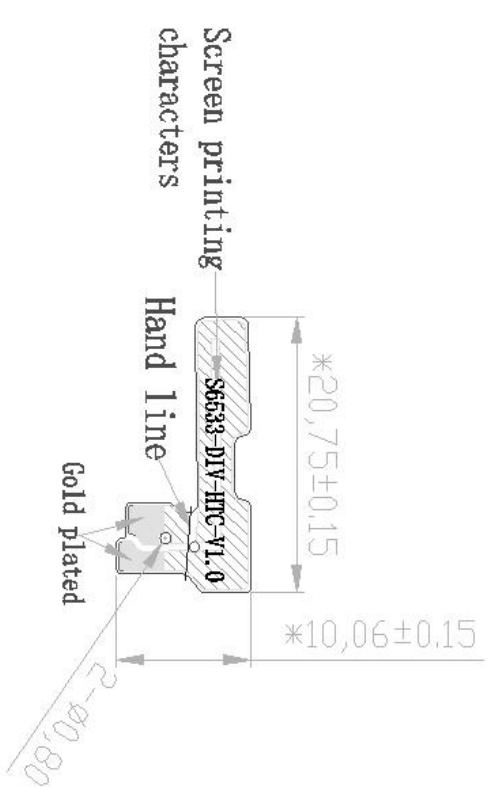
- 1, does for match size, \* for key dimensions, "Trim" for the subsequent need to adjust the size ;
- 2, Star will size measurement, not standard size reference 3 d drawings; Other sizes will be subject to reel match;
- 3, Base material 12.5 mm W, mooring 18 microns, copper plating thickness of 0.5 microns
- 4, area for line area, regional for welding plate (gold), area as attached
- 5, FPC ink surface evenly, with no wrinkle gold-plated had wait for a phenomenon.

Shenzhen HTC-wireless Co., Ltd

COLOUR: YELLOW

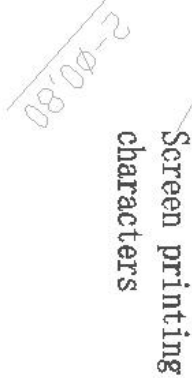
| The third Angle                 | The name of the project | The date of the design | The name of the material | The name of the surface treatment | The name of the processing | The name of the drawing | The name of the drawing | The name of the drawing | The name of the drawing |
|---------------------------------|-------------------------|------------------------|--------------------------|-----------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                                 |                         |                        |                          |                                   |                            |                         |                         |                         |                         |
| 10~20                           | ±0.10                   | 0.02                   | MAIN-PTC                 | PT/Ball and ball                  | YIELDING                   | YIELDING                | YIELDING                | YIELDING                | YIELDING                |
| 20~40                           | ±0.15                   | 0.04                   | Material                 | Surface treatment                 | YIELDING                   | YIELDING                | YIELDING                | YIELDING                | YIELDING                |
| More than 40                    | ±0.20                   | 0.02                   | Material                 | Surface treatment                 | YIELDING                   | YIELDING                | YIELDING                | YIELDING                | YIELDING                |
| Please do not measured drawings |                         |                        |                          |                                   |                            |                         |                         |                         |                         |

| DATE | 修 | 改 | 内 | 容 | 版 | 本 | 备 | 注 |
|------|---|---|---|---|---|---|---|---|
| 1    |   |   |   |   |   |   |   |   |
| 2    |   |   |   |   |   |   |   |   |
| 3    |   |   |   |   |   |   |   |   |
| 4    |   |   |   |   |   |   |   |   |

|                                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|-------------|-------------|-----|---|-----|--------------------------------|--|--|--|-------------------------------------------------------------------------------------|-----------------|------------------|-------|------|------------|-------------|-----|------------------------------------------------|------|-------------------------|---------|--------|-------|-------|--|------------------|--|-----|--|-------|-------------|--|--|-------|-------|--|--|--|--|--|--|-------|-------|--|--|--|--|--|--|-------|-------|--|--|--|--|--|--|--------------|-------|--|--|--|--|--|--|--|--|----------|------------------|--|--|--|--|--|--|-------------------|--------|--|--|--|--|--|--|--------------------------|--------|--|--|--|--|---------------------------------|--|--|--|--|--|--|--|
|                                                                                     |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                | 3      | 4           | 5           | 6   | 7 | 8   |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| A                                                                                   |                 | <div>DIV-ANT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| B                                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| C                                                                                   |                 | <p>NOTE:</p> <p>1, does for match size, * for key dimensions, 'trim' for the subsequent need to adjust the size ;</p> <p>2, Star will size measurement, not standard size reference 3 d drawings; Other sizes will be subject to real match;</p> <p>3, Base material 12.5 mm <math>\eta</math>, mooring 18 microns, copper plating thickness of 0.5 microns</p> <p>4,  area for line area,  regional for welding plate (gold),  area as attached glue area (3 m3001e, viscosity in more than 300 mp)</p> <p>5, FPC ink surface evenly, with no wrinkle gold-plated bad wai for a phenomenon.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| D                                                                                   |                 | <table border="1"><tr><td colspan="4">Shenzhen HTC-wireless Co., Ltd</td></tr><tr><td></td><td>The third Angle</td><td>The project name</td><td>S6535</td><td>Date</td><td>2023/12/21</td><td>page number</td><td>2/3</td></tr><tr><td>Note to, please see at the end of the standard</td><td>0.02</td><td>The name of the antenna</td><td>DIV-FPC</td><td>Design</td><td>HTCHM</td><td>audit</td><td></td></tr><tr><td>In the following</td><td></td><td>P/N</td><td></td><td>audit</td><td>Engineering</td><td></td><td></td></tr><tr><td>10~20</td><td>±0.10</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>20~40</td><td>±0.12</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>40~60</td><td>±0.15</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>More than 60</td><td>±0.20</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Material</td><td>PI/half and half</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Surface treatment</td><td>YELLOW</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>Appearance of processing</td><td>YELLOW</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="8">Please do not measured drawings</td></tr></table> |                  |        |             |             |     |   |     | Shenzhen HTC-wireless Co., Ltd |  |  |  |  | The third Angle | The project name | S6535 | Date | 2023/12/21 | page number | 2/3 | Note to, please see at the end of the standard | 0.02 | The name of the antenna | DIV-FPC | Design | HTCHM | audit |  | In the following |  | P/N |  | audit | Engineering |  |  | 10~20 | ±0.10 |  |  |  |  |  |  | 20~40 | ±0.12 |  |  |  |  |  |  | 40~60 | ±0.15 |  |  |  |  |  |  | More than 60 | ±0.20 |  |  |  |  |  |  |  |  | Material | PI/half and half |  |  |  |  |  |  | Surface treatment | YELLOW |  |  |  |  |  |  | Appearance of processing | YELLOW |  |  |  |  | Please do not measured drawings |  |  |  |  |  |  |  |
| Shenzhen HTC-wireless Co., Ltd                                                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|  | The third Angle | The project name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S6535            | Date   | 2023/12/21  | page number | 2/3 |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| Note to, please see at the end of the standard                                      | 0.02            | The name of the antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DIV-FPC          | Design | HTCHM       | audit       |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| In the following                                                                    |                 | P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | audit  | Engineering |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| 10~20                                                                               | ±0.10           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| 20~40                                                                               | ±0.12           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| 40~60                                                                               | ±0.15           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| More than 60                                                                        | ±0.20           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|                                                                                     |                 | Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PI/half and half |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|                                                                                     |                 | Surface treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | YELLOW           |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|                                                                                     |                 | Appearance of processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | YELLOW           |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| Please do not measured drawings                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
| DATE                                                                                |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 修 改              | 2      | 内 容         | 3           | 版 本 | 4 | 备 注 |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |
|                                                                                     |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |        |             |             |     |   |     |                                |  |  |  |                                                                                     |                 |                  |       |      |            |             |     |                                                |      |                         |         |        |       |       |  |                  |  |     |  |       |             |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |       |       |  |  |  |  |  |  |              |       |  |  |  |  |  |  |  |  |          |                  |  |  |  |  |  |  |                   |        |  |  |  |  |  |  |                          |        |  |  |  |  |                                 |  |  |  |  |  |  |  |

1, does for match size, \* for key dimensions, "trim" for the subsequent need to adjust the size ;  
2, Star will size measurement, not standard size reference 3 d drawings; Other sizes will be subject to real match;

3. Base material 12.5 mm, mooring 18 microns, copper plating thickness of 0.5 microns
4.  area for line area,  regional for welding plate (gold),  area as attached glue area (3 m300le, viscosity in more than 300 mp)
5. FPG ink surface evenly, with no wrinkle gold-plated bad wait for a phenomenon.



|                                                                                     |  |                 |  |                                                                                     |                  |                          |        |                  |      |         |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
|-------------------------------------------------------------------------------------|--|-----------------|--|-------------------------------------------------------------------------------------|------------------|--------------------------|--------|------------------|------|---------|------------|-------------|-------------|---------------------------|-----|--------|--|-------------------------------------------------|--|-----|--|---------|--|-----|--|
| Shenzhen HTC-wireless Co., Ltd                                                      |  |                 |  |                                                                                     |                  |                          |        |                  |      |         |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
|  |  | The third angle |  |                                                                                     | The project name |                          | S66325 |                  | Date |         | 2023/12/31 |             | page number |                           | 3/3 |        |  |                                                 |  |     |  |         |  |     |  |
| Note: 1) All angles are at the end of the dimension                                 |  |                 |  |  |                  | The name of the material |        | WEB-PPC          |      | Design  |            | MICHAEL     |             | Audit                     |     |        |  |                                                 |  |     |  |         |  |     |  |
| 2) See following                                                                    |  | $\pm 0.10$      |  |  |                  | P/N                      |        |                  |      | Audit   |            | Engineering |             | PP                        |     |        |  |                                                 |  |     |  |         |  |     |  |
| 10~20                                                                               |  | $\pm 0.12$      |  | ┴                                                                                   |                  | Material                 |        | PU Half and half |      |         |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
| 20~40                                                                               |  | $\pm 0.15$      |  |  |                  | Surface treatment        |        | YELLOW           |      | Confirm |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
| More than 40                                                                        |  | $\pm 0.20$      |  | ∠                                                                                   |                  |                          |        |                  |      |         |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
|                                                                                     |  | 0.02            |  |                                                                                     |                  |                          |        |                  |      |         |            |             |             |                           |     |        |  |                                                 |  |     |  |         |  |     |  |
| Please do not measured drawings                                                     |  |                 |  |                                                                                     |                  |                          |        |                  |      |         |            |             |             | Approximate of processing |     | YELLOW |  | <input checked="" type="checkbox"/> In progress |  | ETD |  | version |  | P.4 |  |
| 5                                                                                   |  |                 |  |                                                                                     |                  |                          |        | 6                |      |         |            | 7           |             |                           |     | 8      |  |                                                 |  |     |  |         |  |     |  |



## 5 Packaging method

FPC antenna is shipped in one full version, stacked and packaged, packed in small boxes, with one small box containing two packages of antennas.

