

# Shenzhen Yishengbang Technology Co., LTD

## Sample acceptance letter

### SPECIFICATION FOR APPROVAL

The name of the company : Shenzhen NaSida Industry and Trade Co., LTD

The material code: \_\_\_\_\_

specifications: NI10128

Admitted to date: \_\_\_\_\_

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier standard type number: WIFI MAIN:SLK-NSD-2516V1-L-300IV-B

WIFI AUX:SLK-NSD-2516V2-R-490IV-G

### Admit signature

|                                                                                               |  |               |  |                |  |                                             |  |                   |  |          |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------|--|---------------|--|----------------|--|---------------------------------------------|--|-------------------|--|----------|--|--|--|--|--|
| For acceptance by the contractor                                                              |  |               |  |                |  | Shenzhen NaSida Industry and Trade Co., LTD |  |                   |  |          |  |  |  |  |  |
| Rf Engineer                                                                                   |  | audit         |  | approval       |  | Rf Engineer                                 |  | audit             |  | approval |  |  |  |  |  |
| Shi lian<br>Chen                                                                              |  | Zhen<br>Huang |  | Mei Cai<br>Lin |  |                                             |  |                   |  |          |  |  |  |  |  |
| Signed and sealed                                                                             |  |               |  |                |  |                                             |  | Signed and sealed |  |          |  |  |  |  |  |
| date                                                                                          |  |               |  | 2023-2-9       |  |                                             |  | date              |  |          |  |  |  |  |  |
| instructions: <input type="checkbox"/> accept <input type="checkbox"/> Conditional acceptance |  |               |  |                |  |                                             |  |                   |  |          |  |  |  |  |  |
| note:                                                                                         |  |               |  |                |  |                                             |  |                   |  |          |  |  |  |  |  |

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier address : 101, Building C, Shenzhen Qianwan Hard Technology Industrial Park, Bao 'an District, Shenzhen

telephone: 18025305599

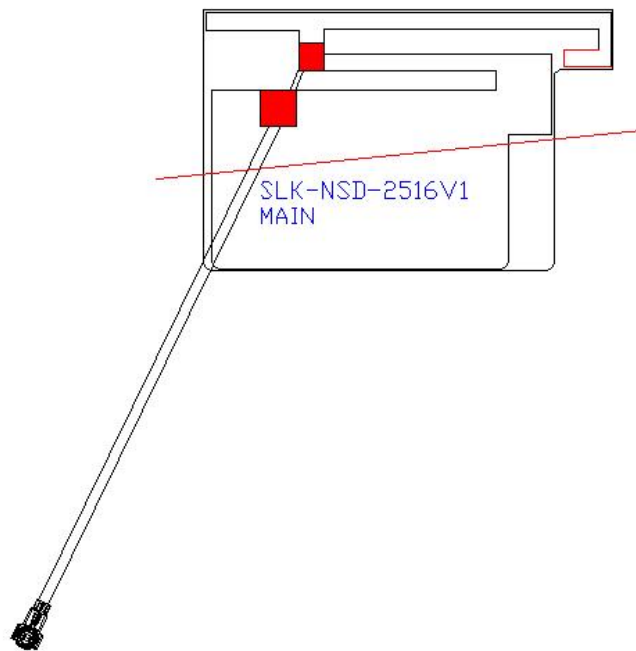
telephone: 18666299104

# WIFIMAIN Antenna (2516V1)

## 1. Explanation of Product number :

**S L K - N S D - 2 5 1 6 V 1 - L - 3 0 0 I V - B**

**1                      2                      3                      4                      5**



Product Code:

(1) Customer:

NSD: NaSida

(2) Project:

2516V1: SLK-NSD-2516V1 (WIFI MAIN antenna)

(3) Welding Position

L: Left

(4) Cable Length:

300IV: 300\*1.13MM    fourth generation terminal

(5) Cable Color

B: Black

## 2. Features

- \*Stable and reliable in performances
- \*Compact size
- \*RoHS compliance

### 3. Applications

- \* IEEE802.11 (a/b/g/n)
- \* Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

### 4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11a/b/g/n) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

### 5. Electrical Specifications

5-1

| Characteristics                   | Specifications    | Unit |
|-----------------------------------|-------------------|------|
| Outline Dimensions                | 25.43x16.19x 0.12 | mm   |
| Center Frequency                  | 2.4-2.5+5.15-5.85 | GHz  |
| Bandwidth(under-10dB return loss) | 130min            | MHz  |
| VSWR                              | 3max              |      |

5-2.

VSWR



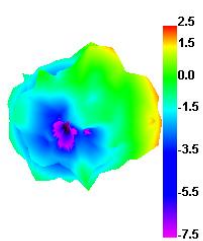
S11



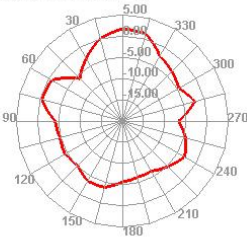
### 5-3.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 41.48       | -3.82        | 1.82          |
| 2410          | 42.95       | -3.67        | 1.88          |
| 2420          | 43.33       | -3.63        | 1.66          |
| 2430          | 41.82       | -3.79        | 1.57          |
| 2440          | 44.1        | -3.56        | 2.09          |
| 2450          | 46.3        | -3.34        | 2.51          |
| 2460          | 46.02       | -3.37        | 2.58          |
| 2470          | 46.57       | -3.32        | 2.61          |
| 2480          | 47.37       | -3.25        | 2.54          |
| 2490          | 49.46       | -3.06        | 2.55          |
| 2500          | 45.44       | -3.43        | 2.06          |
| 5150          | 45.15       | -3.45        | 2.16          |
| 5350          | 50.89       | -2.93        | 1.6           |
| 5550          | 46.95       | -3.28        | 1.79          |
| 5750          | 49.47       | -3.06        | 2.55          |
| 5850          | 52.36       | -2.81        | 2.94          |

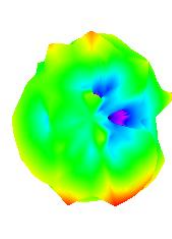
2450.000MHz



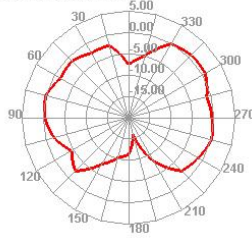
2450.000MHz H



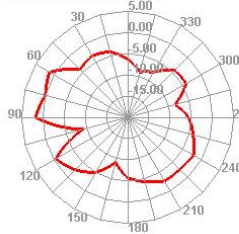
5850.000MHz



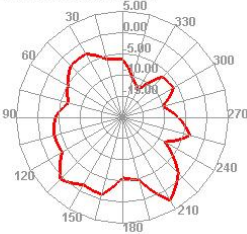
5850.000MHz H



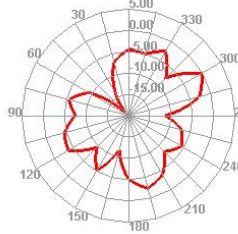
2450.000MHz E1



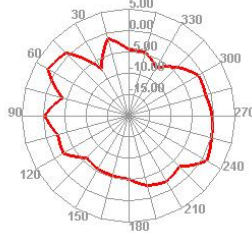
2450.000MHz E2



5850.000MHz E1



5850.000MHz E2



## 6. Antenna Dimensions (unit: mm)

**Document number** SLK-NSD-2516 V1-L-300IV-B

**Company:** MM

**Edition** A1

**Sign** Change description

**DATE** 23-02-09

**Technical requirements:**

1. FPC base material: PI, the shaded part is copper foil, and black oil is on the front surface.
2. Sheet thickness 1 half, Back glue model: 3m300.
3. Copper exposed in red part, The surface shall be free of oil, impurities, burrs, etc.
4. Cut off the release paper by hand to avoid damaging the line.
5. Important dimensions shall be marked with "\*" (the mold shall be controlled during manufacturing and must be measured during mold acceptance);
6. Cable wire Black 1.13, wire length 300mm, fourth generations of terminal

**Material specifications:**

- Green PI substrate, thickness 25um
- Yellow covered with copper, thickness 175um
- Purple peel black oil, thickness 25um
- Red NSD adhesive, thickness 50um
- Blue Release paper, thickness 100um

**Dimensions:**

- Overall length: 300±3
- Terminal length: 1.20
- Terminal width: 1.50
- Terminal thickness: 2.00
- Terminal width: 16.19±0.2
- Terminal height: 25.43±0.2

**Labels:**

- SLK-NSD-2516V1
- MAIN

# WIFI AUX Antenna (2516V2)

## 1. Explanation of Product number :

**S L K - N S D - 2 5 1 6 V 2 - R - 4 9 0 I V - G**

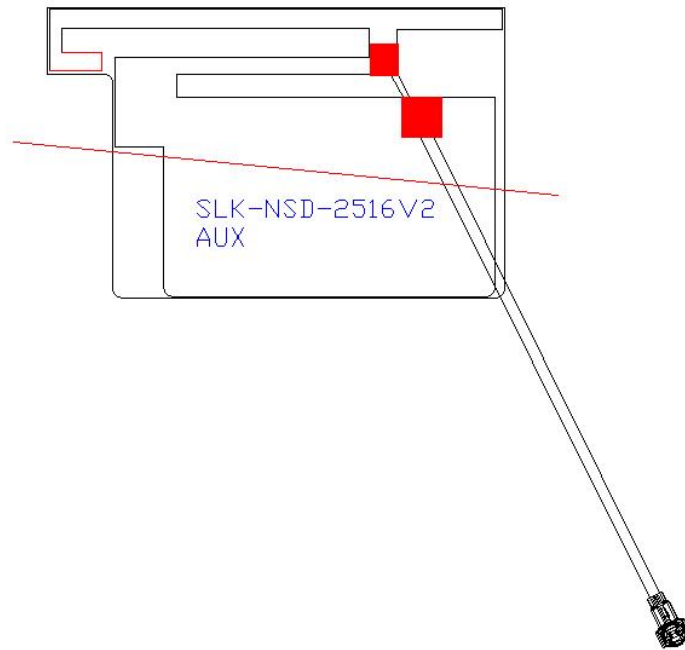
**1**

**2**

**3**

**4**

**5**



Product Code:

(1) Customer:

NSD:NaSida

(2) Project:

2516V2: SLK-NSD-2516V2 (WIFI AUX antenna)

(3) Welding Position

R: Right

(4) Cable Length:

490IV: 490\*1.13MM 四代端子

(5) Cable Color

G: Gary

## 2. Features

\*Stable and reliable in performances

\*Compact size

\*RoHS compliance

### 3. Applications

- \* IEEE802.11 (a/b/g/n)
- \* Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

### Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11a/b/g/n) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

### 5. Electrical Specifications

5-1

| Characteristics                   | Specifications      | Unit     |
|-----------------------------------|---------------------|----------|
| Outline Dimensions                | 25.43x16.19x 0.12   | mm       |
| Center Frequency                  | 2.4-2.5+5.15-5.85   | GHz      |
| Bandwidth(under-10dB return loss) | 130min              | MHz      |
| VSWR                              | 3max                |          |
| Impedance                         | 50                  | $\Omega$ |
| Polarization                      | Linear Polarization |          |

5-2.

VSWR

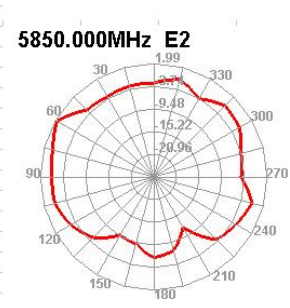
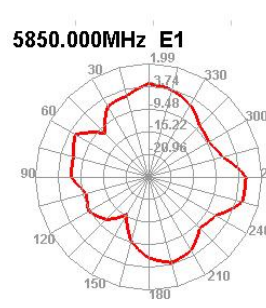
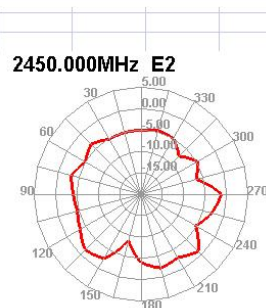
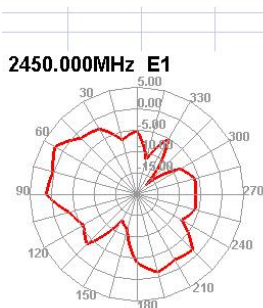
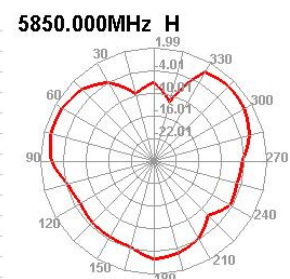
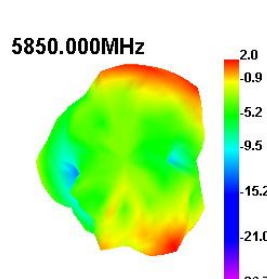
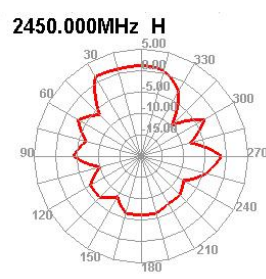
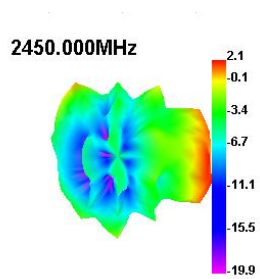


S11

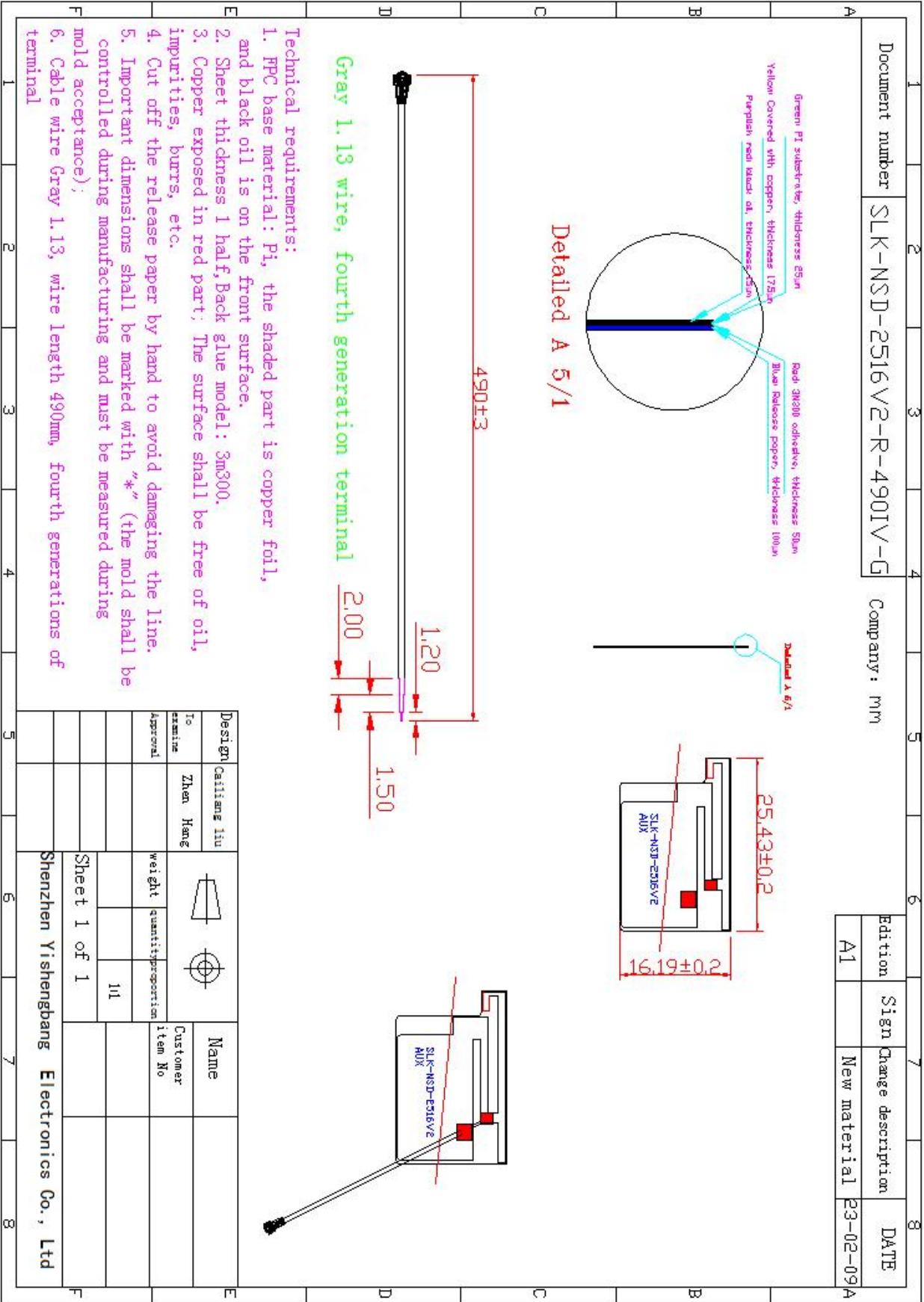


### 5-3.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

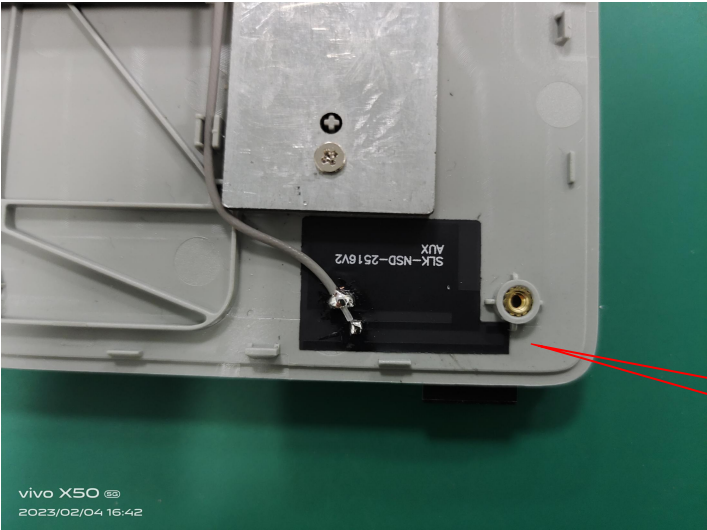
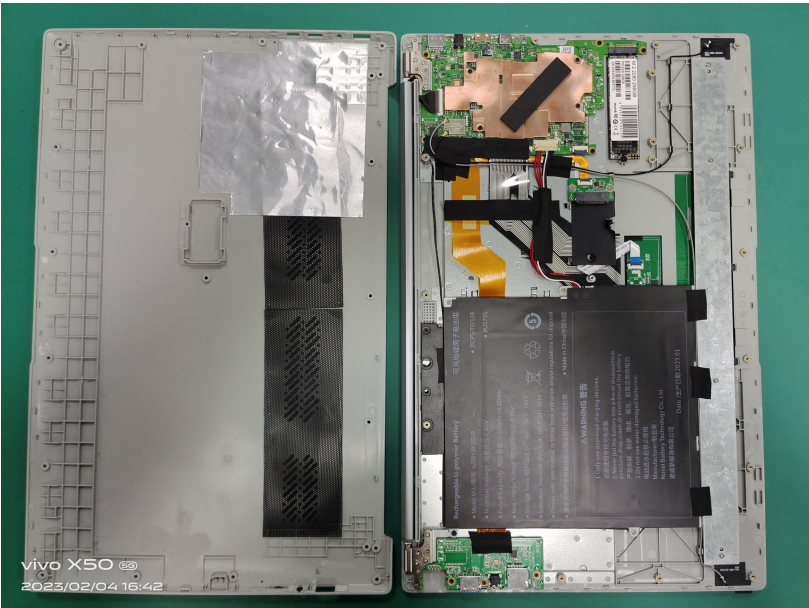
| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) |
|---------------|-------------|--------------|---------------|
| 2400          | 45.79       | -3.39        | 2.48          |
| 2410          | 43.76       | -3.59        | 2.11          |
| 2420          | 44.52       | -3.51        | 2.04          |
| 2430          | 40.65       | -3.91        | 1.68          |
| 2440          | 43.74       | -3.59        | 2.11          |
| 2450          | 41.84       | -3.78        | 2.07          |
| 2460          | 42.71       | -3.69        | 2.33          |
| 2470          | 40.63       | -3.91        | 2.16          |
| 2480          | 42.19       | -3.75        | 2.37          |
| 2490          | 42.02       | -3.77        | 2.38          |
| 2500          | 43.86       | -3.58        | 2.66          |
| 5150          | 37.32       | -4.28        | 1.51          |
| 5350          | 37.58       | -4.25        | 1.6           |
| 5550          | 42.84       | -3.68        | 1.21          |
| 5750          | 47.97       | -3.19        | 2.29          |
| 5850          | 44.84       | -3.48        | 1.99          |



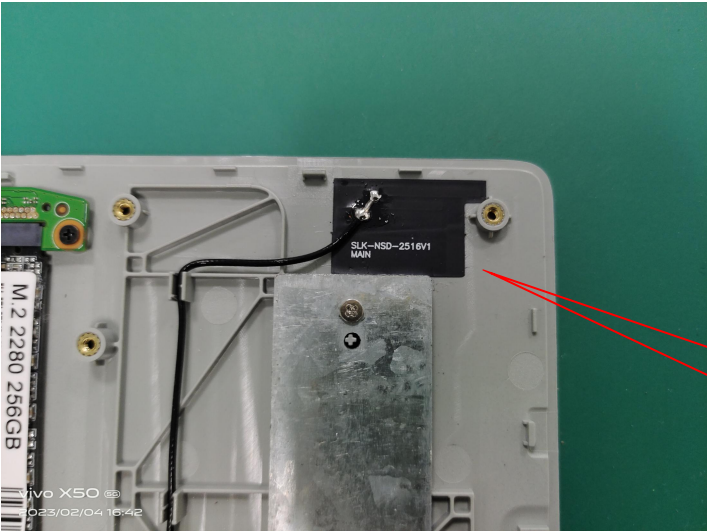
6. Antenna Dimensions (unit: mm)



# 7. Antenna Picture



WIFI diversity antenna



WIFI main antenna