

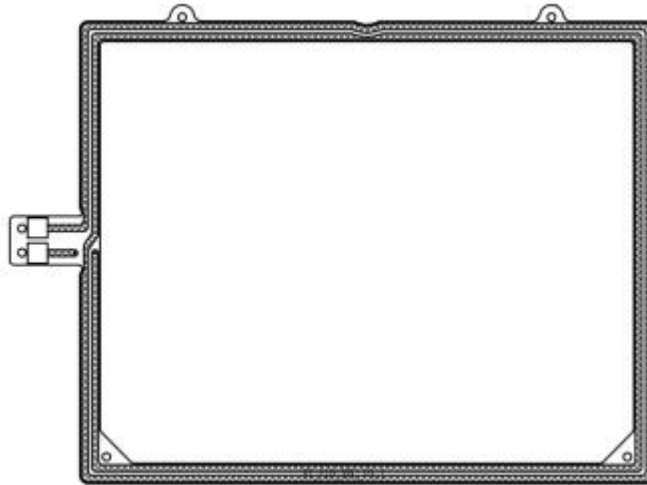
## BlueCash-05 Antenna Report

## 1. RFID Antenna

## 1.1 Specifications

| Specifications            |          |
|---------------------------|----------|
| Operating frequency (MHz) | 13.56    |
| Antenna type              | Flex FPC |
| Antenna gain              | 0 dBi    |

## 1.2 Dimensions (Unit: mm) 72 x 57



## 1.3 Manufacturer

Sunnyway Technology (China) Co., LTD.

6F Building 5, Nam Tai Inno Park, Guangming District, Shenzhen

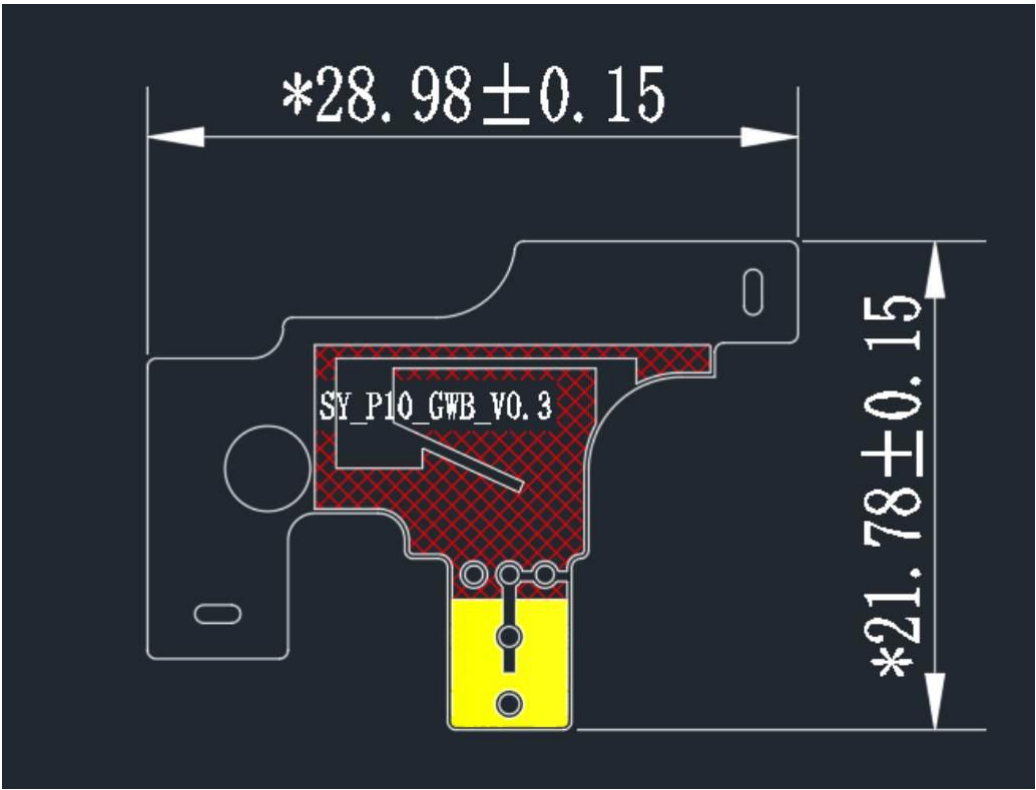
## 2. WiFi antenna



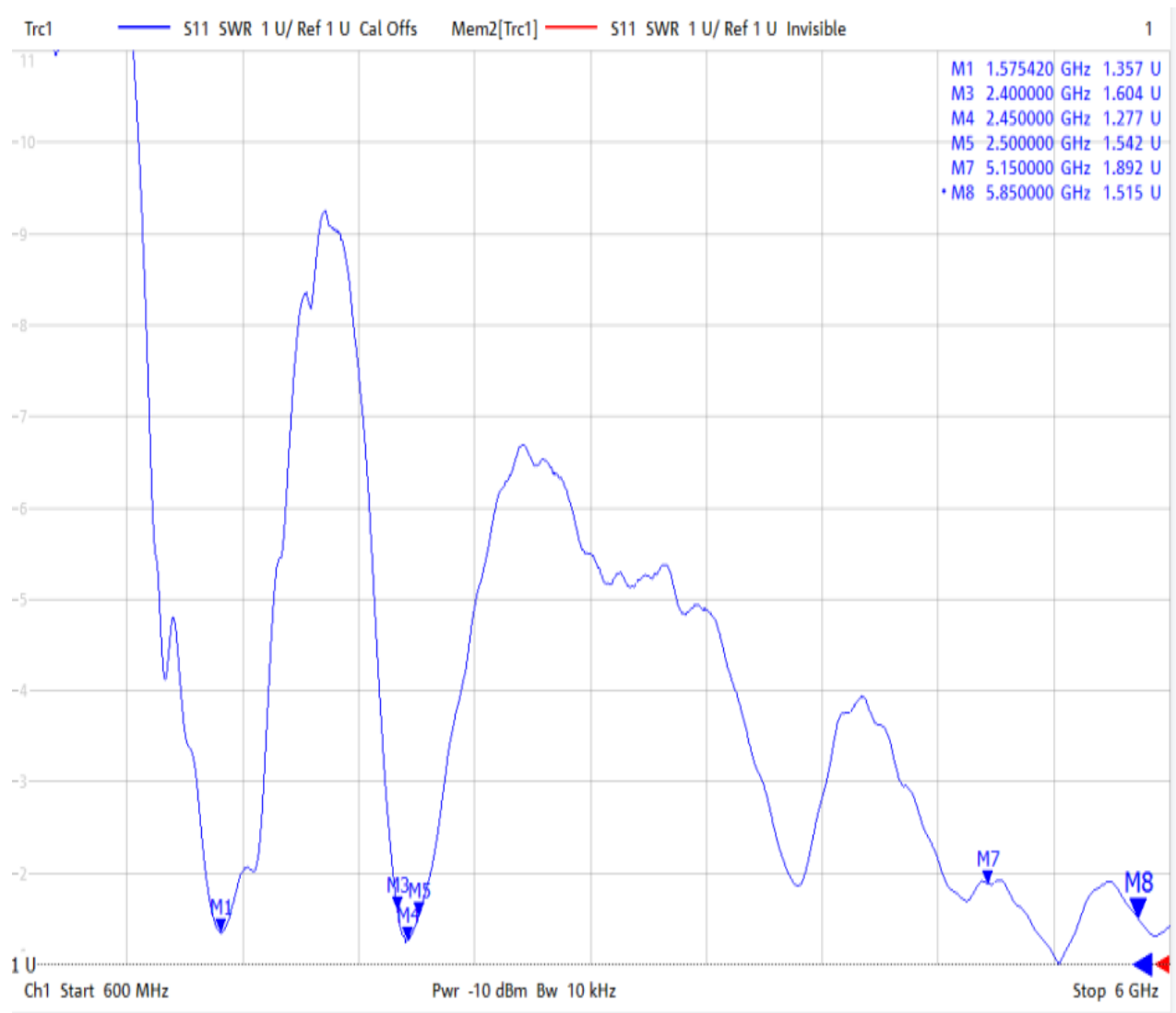
2.1 Specifications

| Specifications      |                               |
|---------------------|-------------------------------|
| Operating frequency | 2412MHz to 2472MHz EU Version |
|                     | 2412MHz to 2462MHz US Version |
|                     | 5150MHz to 5250MHz            |
|                     | 5250MHz to 5350MHz            |
|                     | 5470MHz to 5720MHz            |
|                     | 5745MHz to 5850MHz            |
| Antenna type        | FPC                           |
| Antenna gain 2.4GHz | +3.36 dBi                     |
| Antenna gain 5GHz   | +2.34 dBi                     |

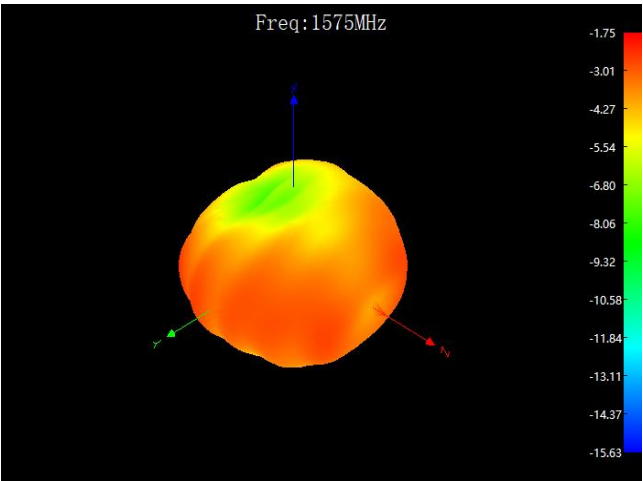
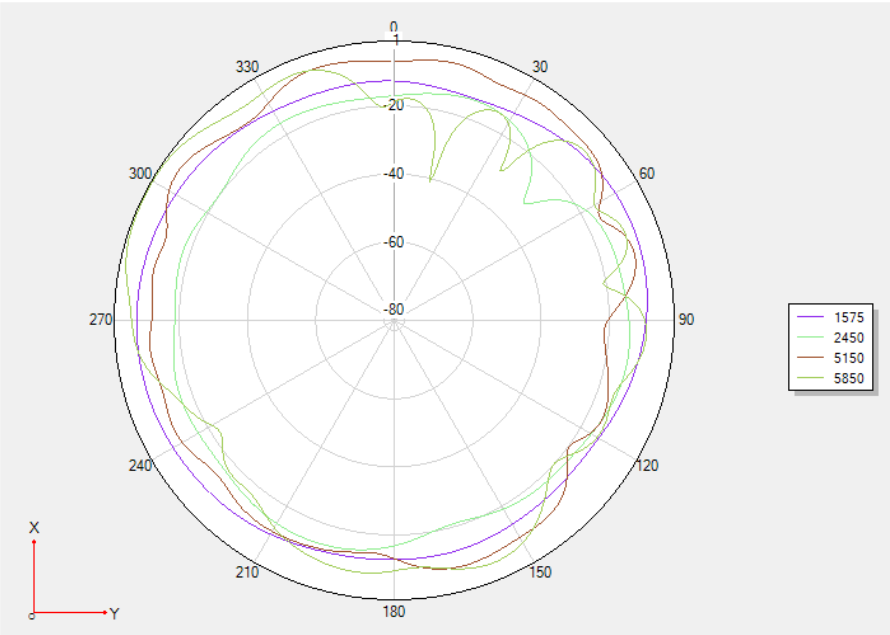
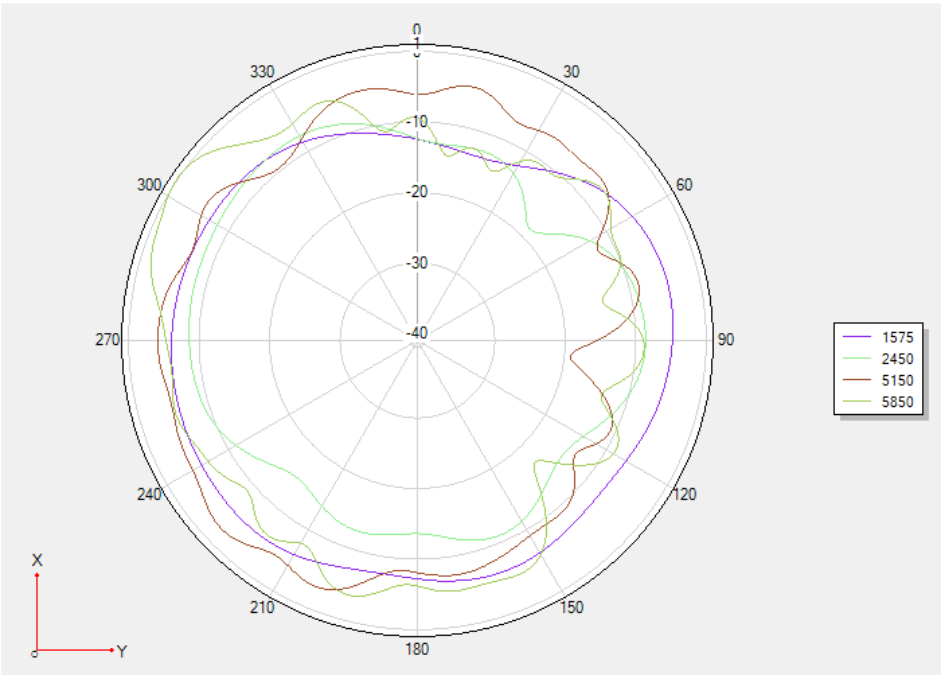
2.2 Dimensions (Unit: mm) 28.98 x 27.78

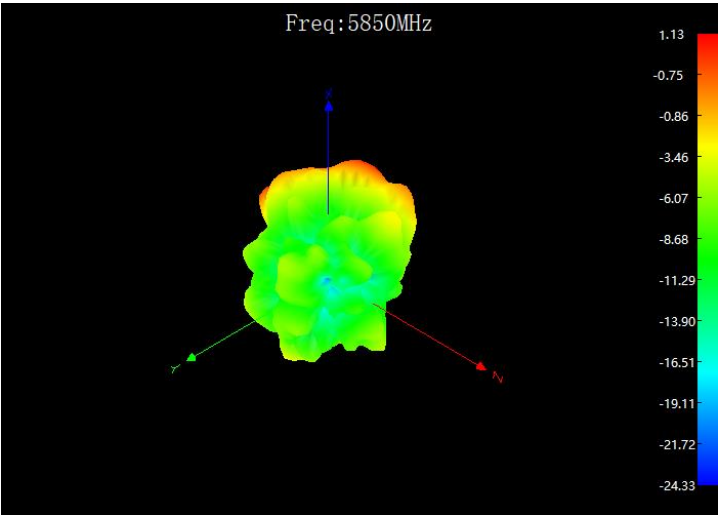
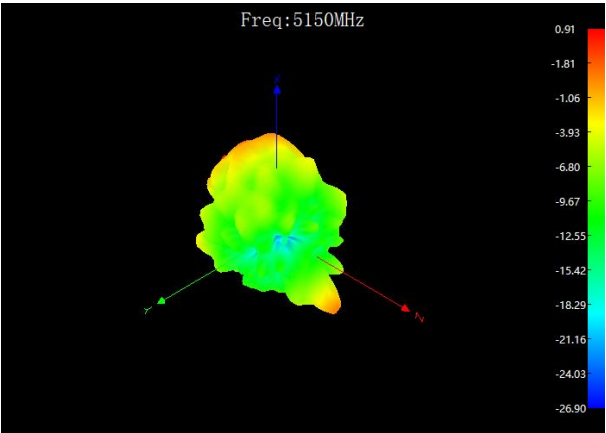
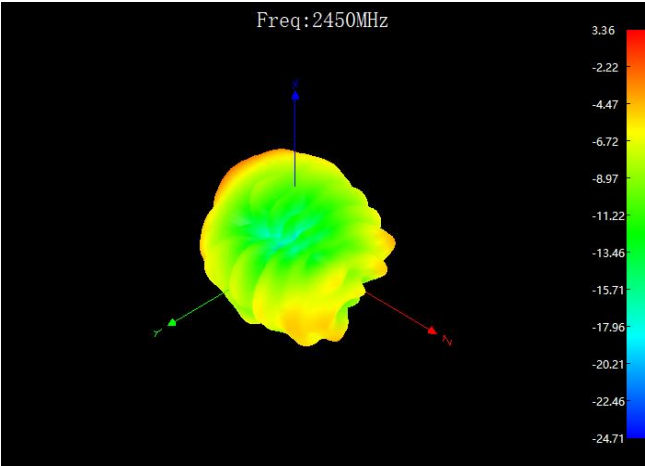


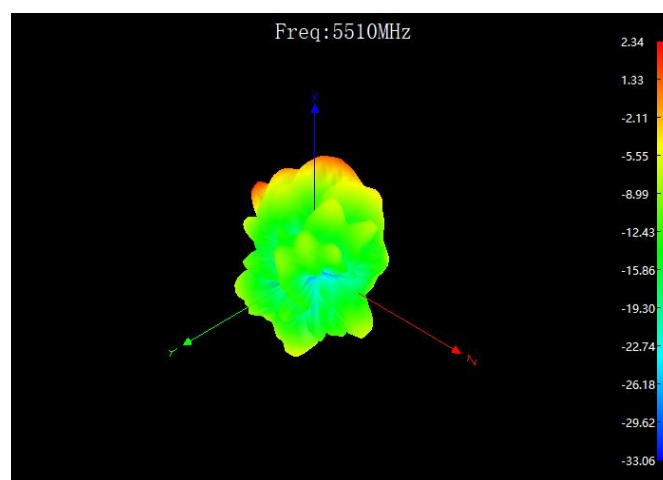
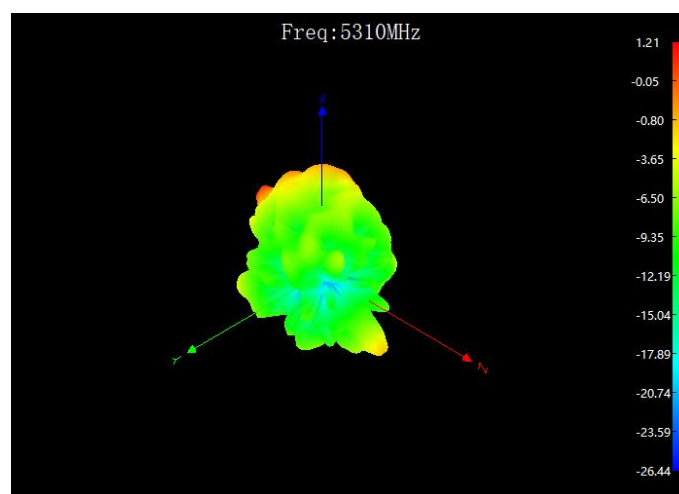
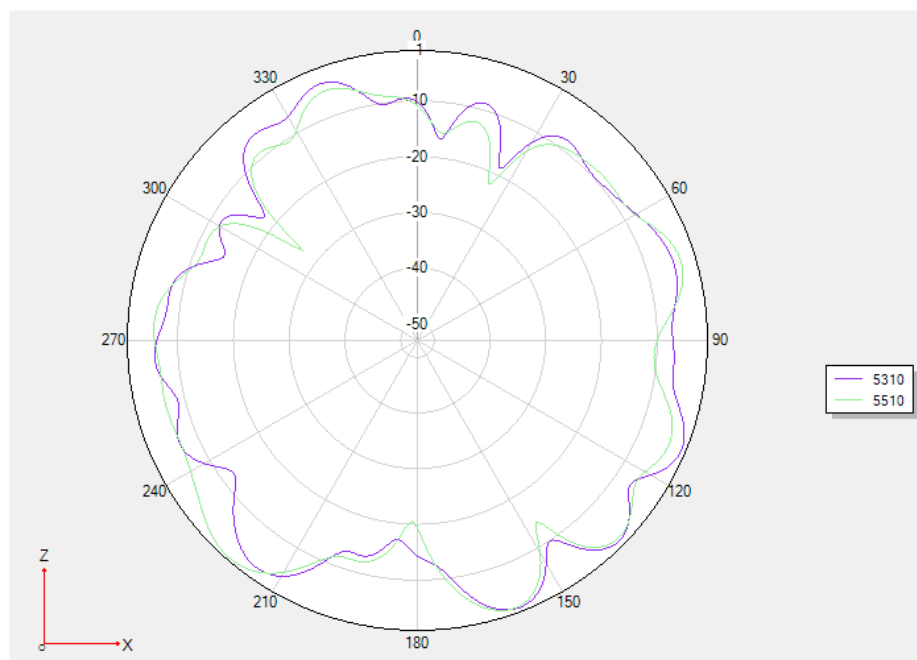
2.3 VSWR



2.4 Antenna Gain:







| Frequency/Mhz | Efficiency / % | MaxGain/dBi |
|---------------|----------------|-------------|
| 1550          | 37,82          | 0,33        |
| 1555          | 38,68          | 0,87        |
| 1560          | 40,59          | 1,59        |
| 1565          | 38,5           | 1,8         |
| 1570          | 39,18          | 1,65        |
| 1575          | 36,65          | 1,63        |
| 1580          | 35,69          | 1,65        |
| 1585          | 34,79          | 1,49        |
| 1590          | 34,29          | 1,28        |
| 1595          | 31,67          | 0,87        |
| 1600          | 30,54          | 0,84        |
| 1605          | 29,58          | 0,18        |
| 1610          | 29,11          | 0,06        |
| 1615          | 27,16          | 0,04        |
| 1620          | 24,81          | 0,8         |
| 1574          | 32,12          | -0,81       |
| 1575          | 32,59          | -0,77       |
| 2400          | 33,52          | 2,87        |
| 2410          | 33,35          | 3,29        |
| 2420          | 35,94          | 3,36        |
| 2430          | 35,36          | 3,36        |
| 2440          | 35,79          | 2,69        |
| 2450          | 36,16          | 3,17        |
| 2460          | 36,35          | 3           |
| 2470          | 37,05          | 3,25        |
| 2480          | 38,38          | 3,27        |
| 2490          | 37,36          | 3,36        |
| 2500          | 35,28          | 2,29        |
| 5150          | 24,95          | 0,91        |
| 5250          | 22,57          | 0,55        |
| 5300          | 21,99          | 1,02        |
| 5310          | 21,55          | 1,21        |
| 5400          | 21,35          | 1,38        |
| 5450          | 19,01          | 1,47        |
| 5510          | 17,82          | 2,34        |
| 5550          | 18,96          | 1,96        |
| 5600          | 22,89          | 1,36        |
| 5650          | 22,82          | 1,73        |
| 5700          | 20,75          | 1,16        |
| 5750          | 20,75          | 0,99        |
| 5800          | 22,39          | 0,46        |
| 5850          | 20,97          | 1,13        |
| 5900          | 22,59          | 1,29        |

## 2.5 Manufacturer

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