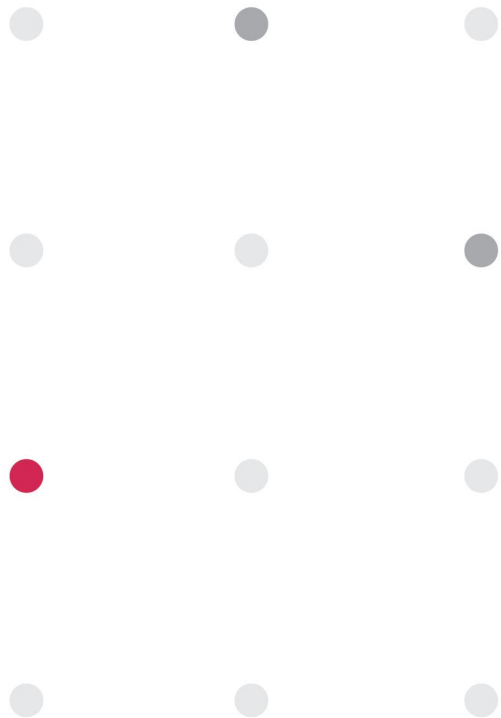


PSA

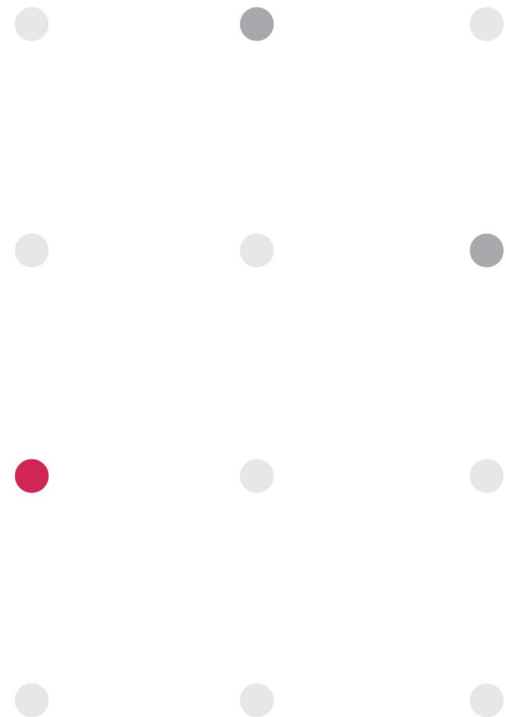
# 佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE  
INPAQ TECHNOLOGY CO., LTD.



# 光峰\_PJ08



## Test method

| Name                         | Parameter            | Method                                                               | Standard no.           |
|------------------------------|----------------------|----------------------------------------------------------------------|------------------------|
| Mobile communication antenna | VSWR                 | Generic specification for antennas used in the mobile communications | GB/T 9410-2008         |
|                              | Antenna gain         |                                                                      |                        |
|                              | Radiation pattern    |                                                                      |                        |
| Antenna performance          | Radiation efficiency | IEEE Standard Test Procedures for Antennas                           | ANSI/IEEE Std 149-1979 |

Test standard

| Name                | Parameter            | Method                                     | Standard no.            |
|---------------------|----------------------|--------------------------------------------|-------------------------|
| Antenna performance | Radiation efficiency | IEEE Standard Test Procedures for Antennas | ANSI/IEEE Std 149- 2021 |

Equipment of calibration

| Equipment        | Manufacturer | Model No. | Last Cal.  | Due Date   |
|------------------|--------------|-----------|------------|------------|
| Network Analyzer | Agilent      | E5071C    | 2025.01.14 | 2026.01.13 |

Test personnel :FangTan Jin

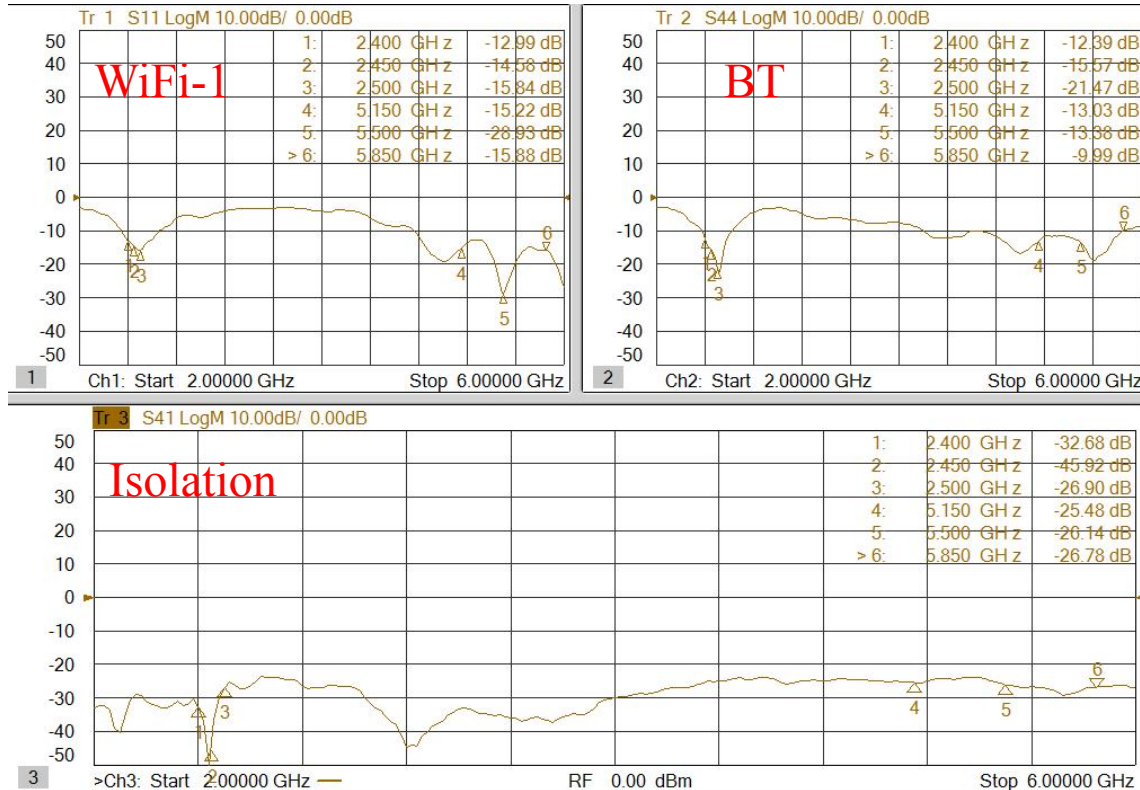
## 2. Antenna Characteristics

### 2.1 S-Parameter



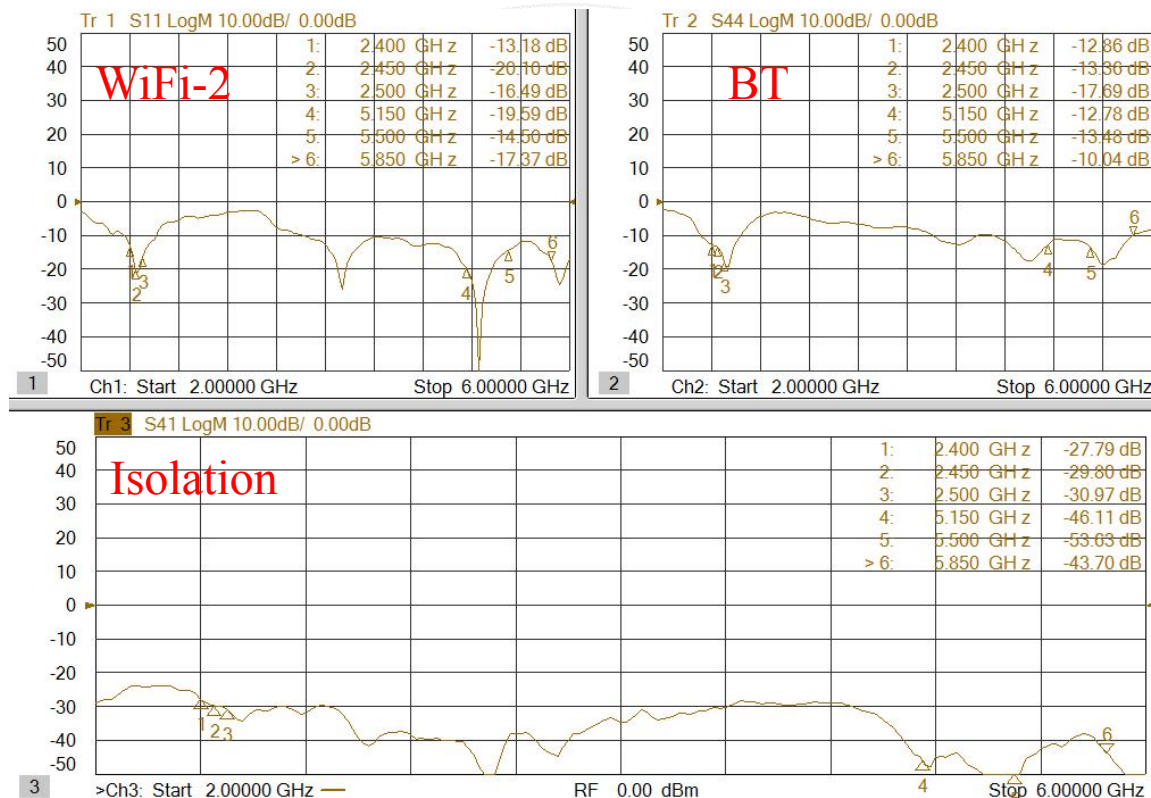
## 2. Antenna Characteristics

### 2.1 S-Parameter



## 2. Antenna Characteristics

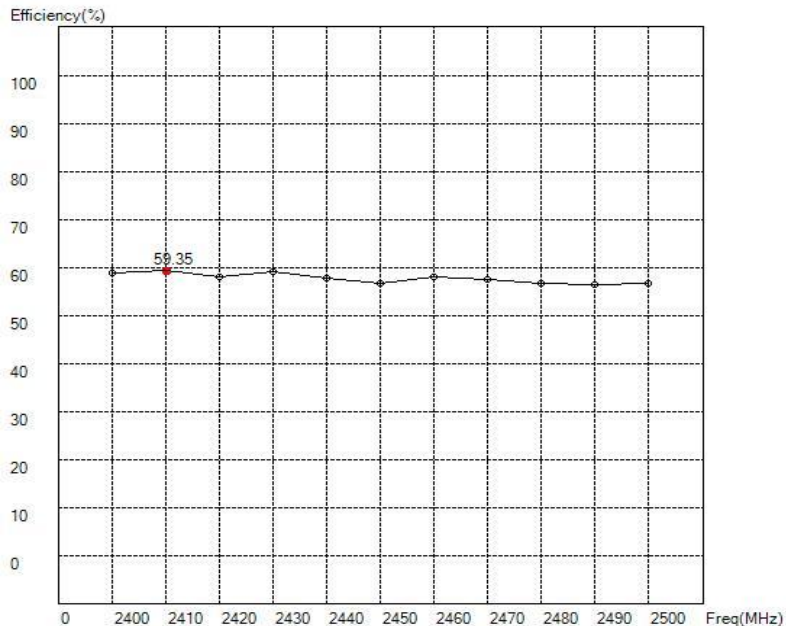
### 2.1 S-Parameter



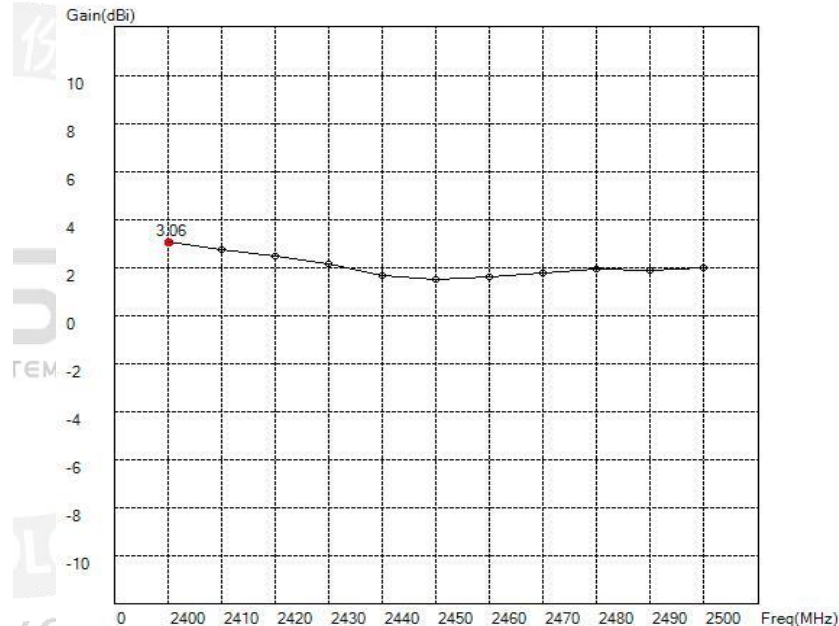
## 2. Antenna Characteristics

WiFi-1-2.4G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2410 MHz : 59.35 %

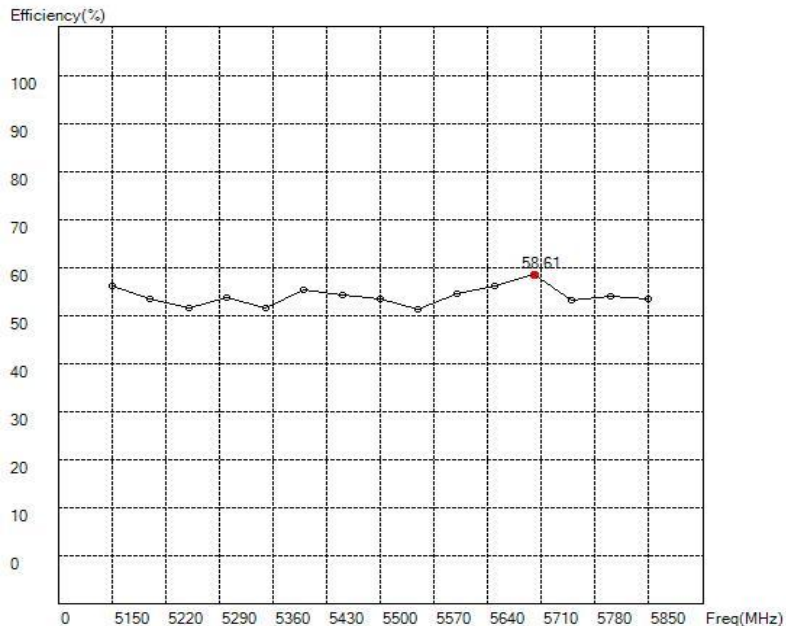


Maximum Peak Gain at 2400MHz : 3.06dBi

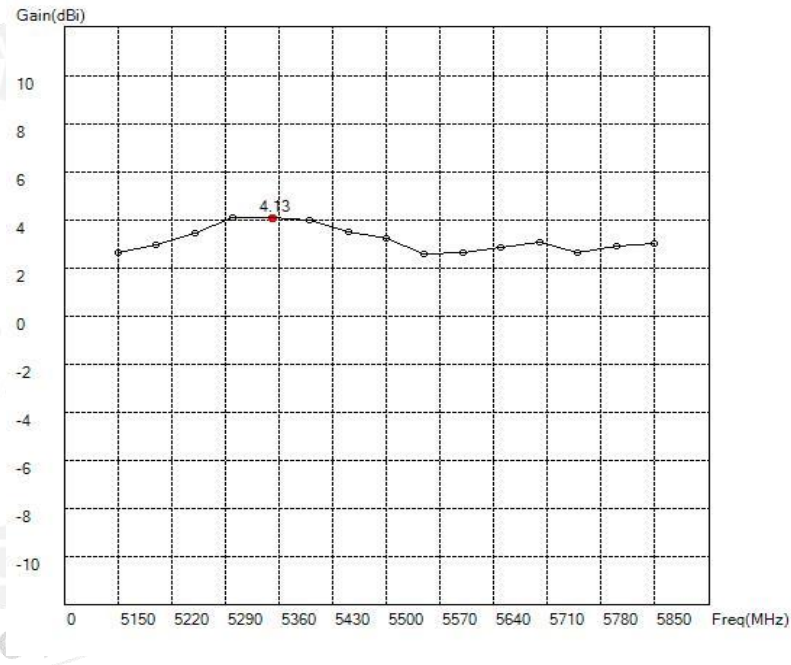
## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain

WiFi-1-5G



Maximum Efficiency at 5700 MHz : 58.61 %

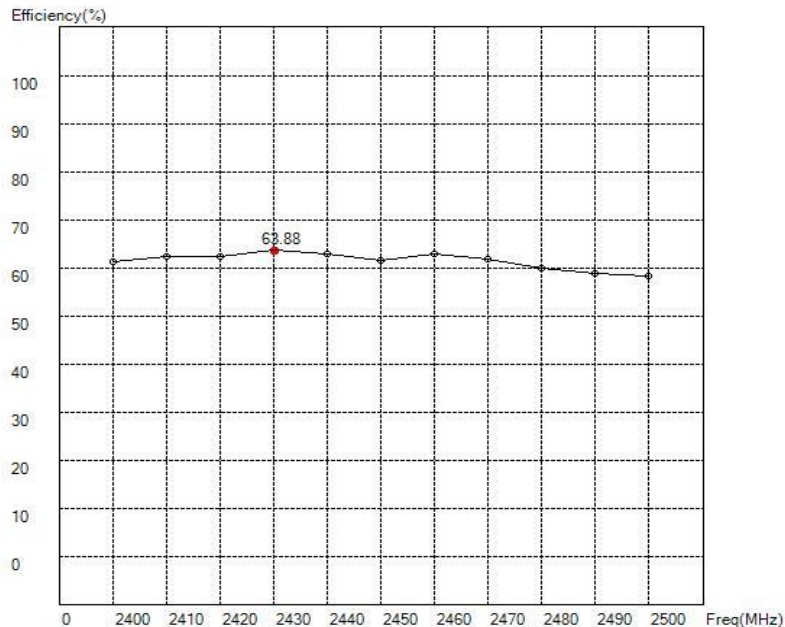


Maximum Peak Gain at 5350MHz : 4.13dBi

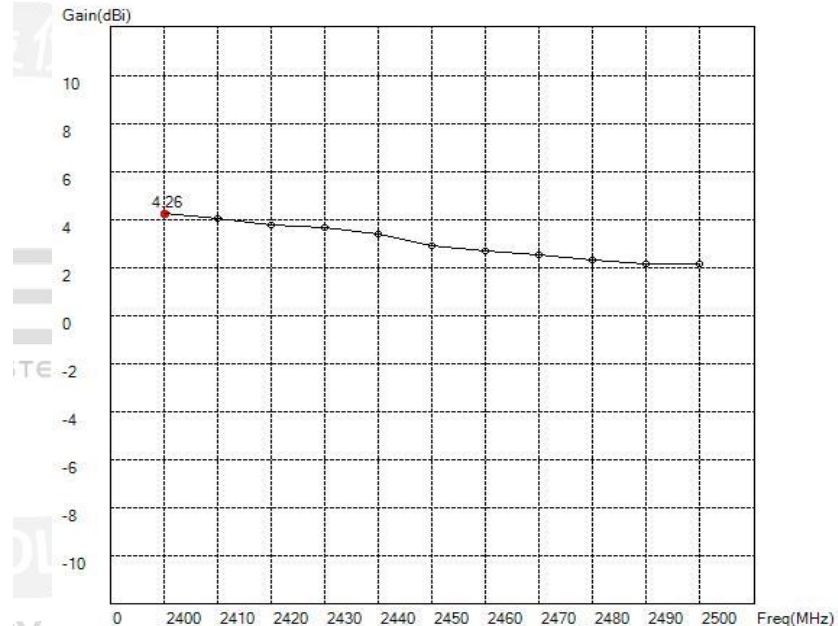
## 2. Antenna Characteristics

WiFi-2-2.4G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2430 MHz : 63.88 %

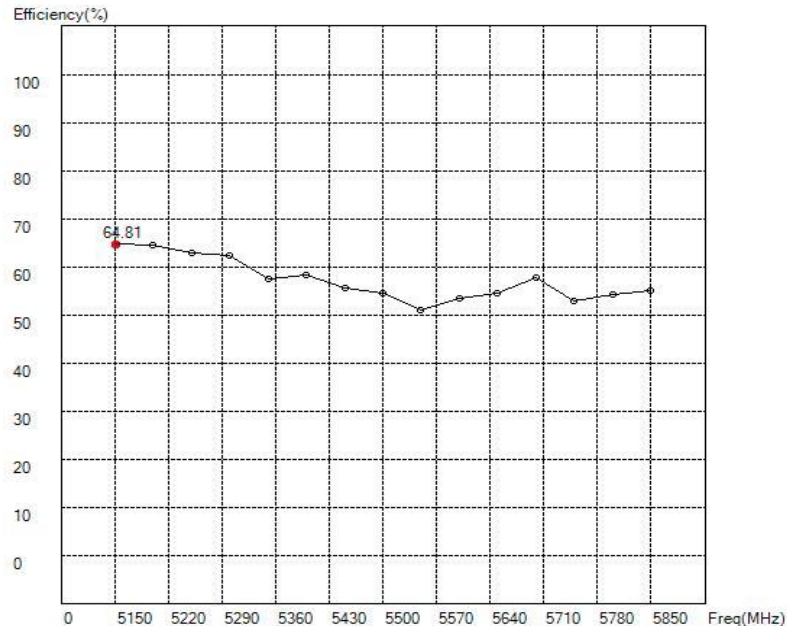


Maximum Peak Gain at 2400MHz : 4.26dBi

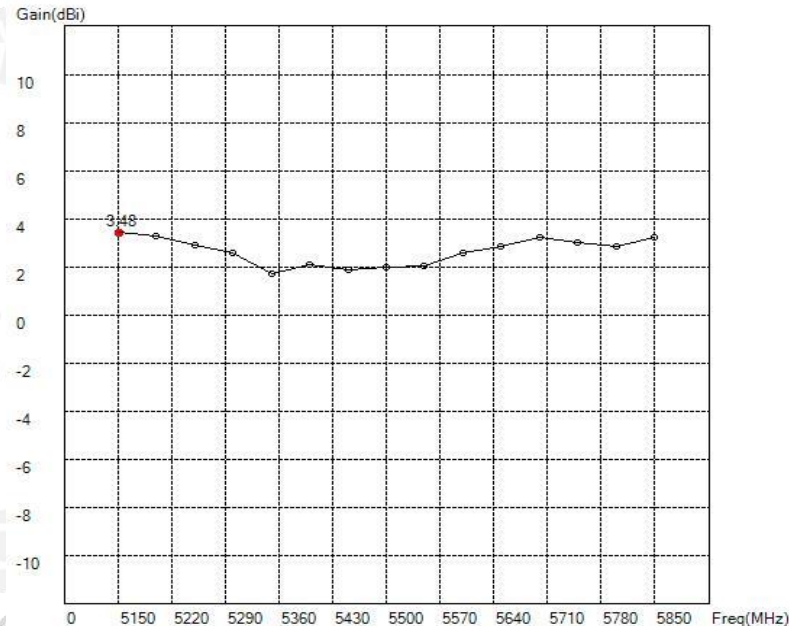
## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain

WiFi-2-5G



Maximum Efficiency at 5150 MHz : 64.81%

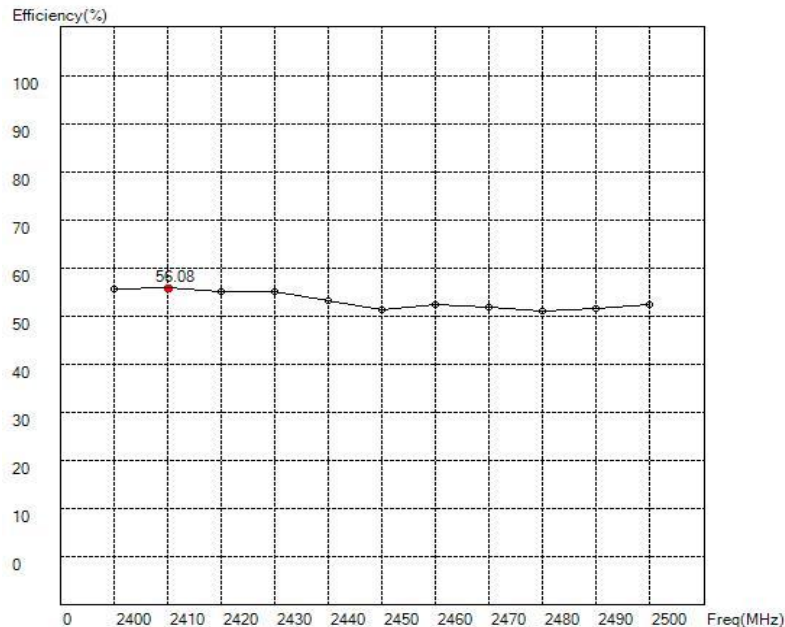


Maximum Peak Gain at 5150MHz : 3.48dBi

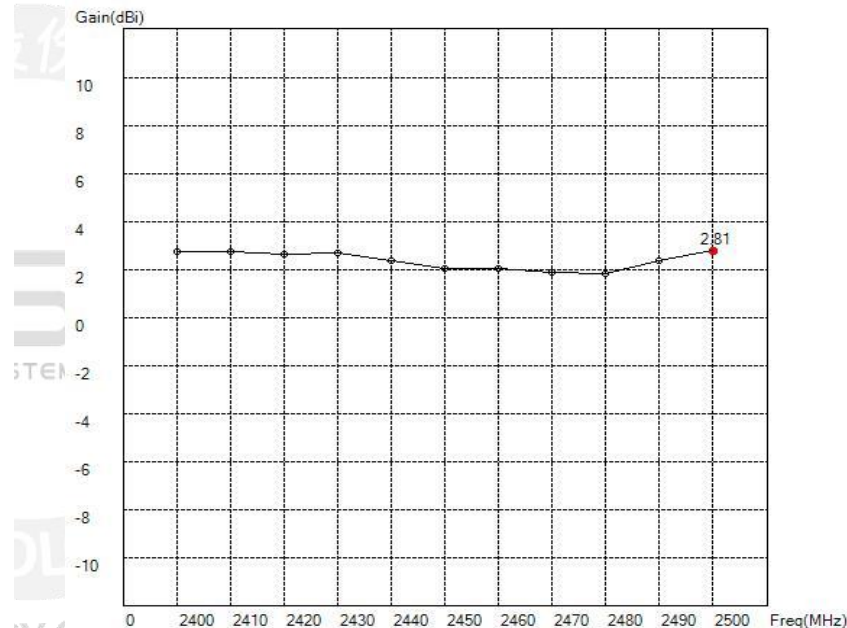
## 2. Antenna Characteristics

BT

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2410 MHz : 56.08 %



Maximum Peak Gain at 2500MHz : 2.81dBi

## 2. Antenna Characteristics

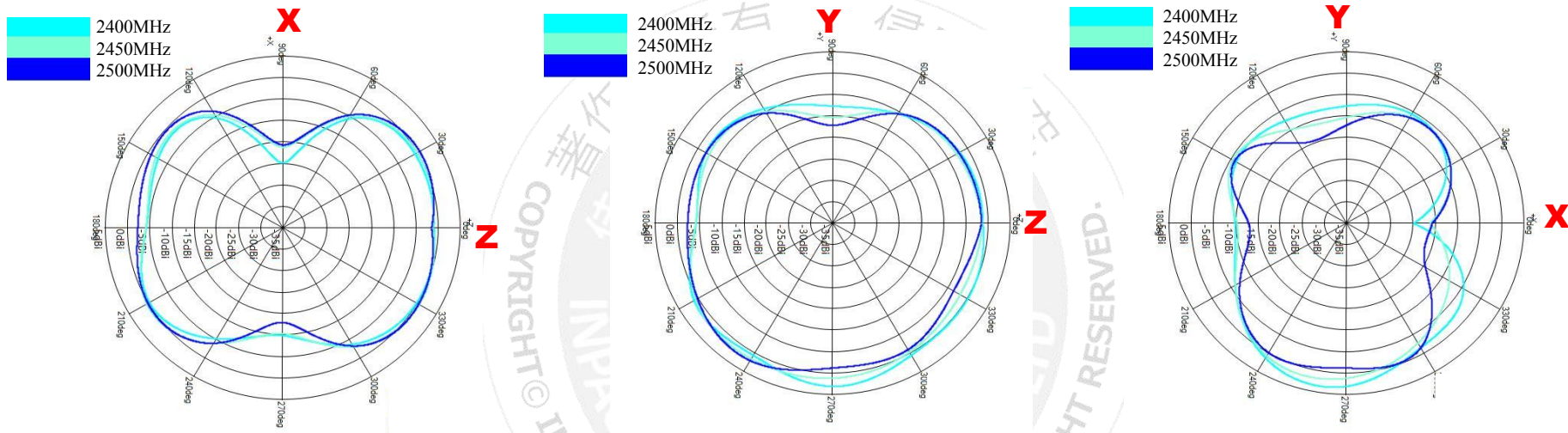
### 2.2 Antenna Efficiency and Peak Gain

|                    | WiFi-1            |                    | WiFi-2            |                    | BT                |                    |
|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| Frequency<br>(MHz) | Efficiency<br>(%) | Peak gain<br>(dBi) | Efficiency<br>(%) | Peak gain<br>(dBi) | Efficiency<br>(%) | Peak gain<br>(dBi) |
| 2400               | 59.01             | 3.06               | 61.27             | 4.26               | 55.76             | 2.74               |
| 2450               | 56.70             | 1.54               | 61.54             | 2.93               | 51.42             | 2.07               |
| 2500               | 56.71             | 2.02               | 58.46             | 2.15               | 52.51             | 2.81               |
| 5150               | 56.14             | 2.63               | 64.81             | 3.48               | /                 | /                  |
| 5500               | 53.58             | 3.26               | 54.65             | 1.99               | /                 | /                  |
| 5850               | 53.64             | 3.02               | 55.09             | 3.24               | /                 | /                  |

## 2. Antenna Characteristics

WiFi-1-2.4G

### 2.3 2D Radiation Patterns

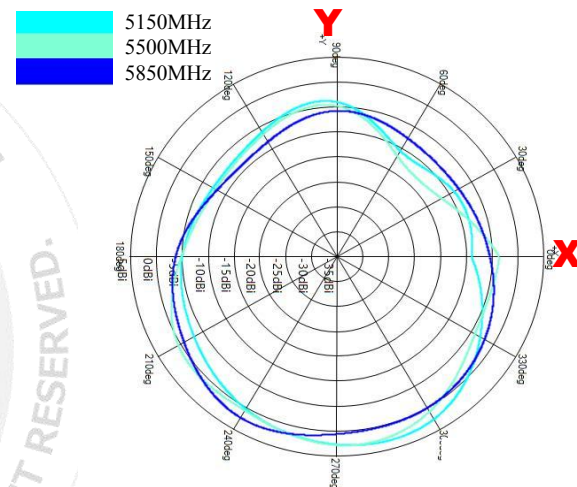
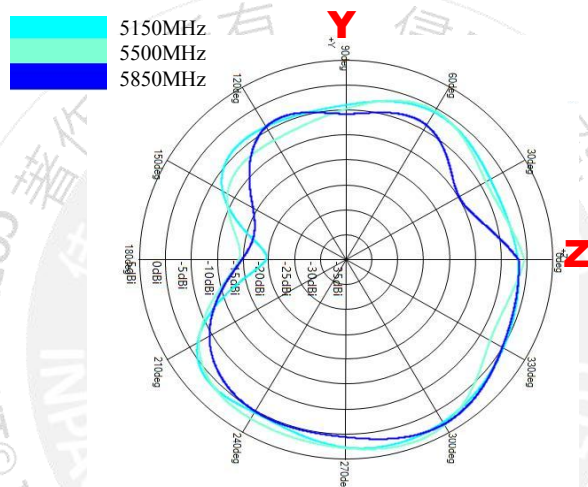
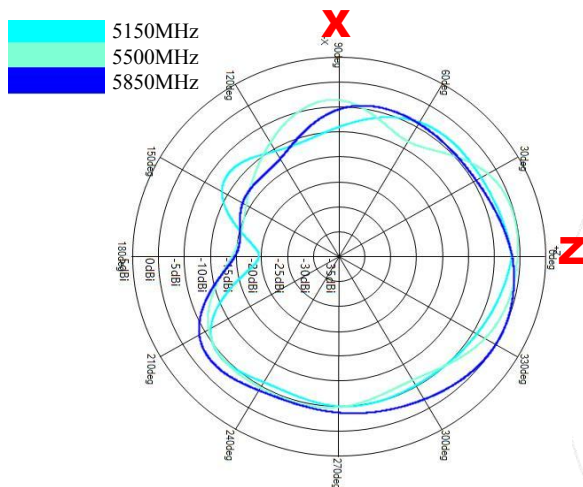


|                 | ZX plane        |               | ZY plane        |               | XY plane        |               |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| Frequency [MHz] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] |
| 2400            | -0.09           | -2.75         | 3.06            | -0.55         | 3.06            | -3.14         |
| 2450            | 0.57            | -2.32         | 1.54            | -1.25         | 1.18            | -4.33         |
| 2500            | 0.71            | -2.30         | 2.02            | -1.75         | -0.09           | -5.34         |

## 2. Antenna Characteristics

WiFi-1-5G

### 2.3 2D Radiation Patterns

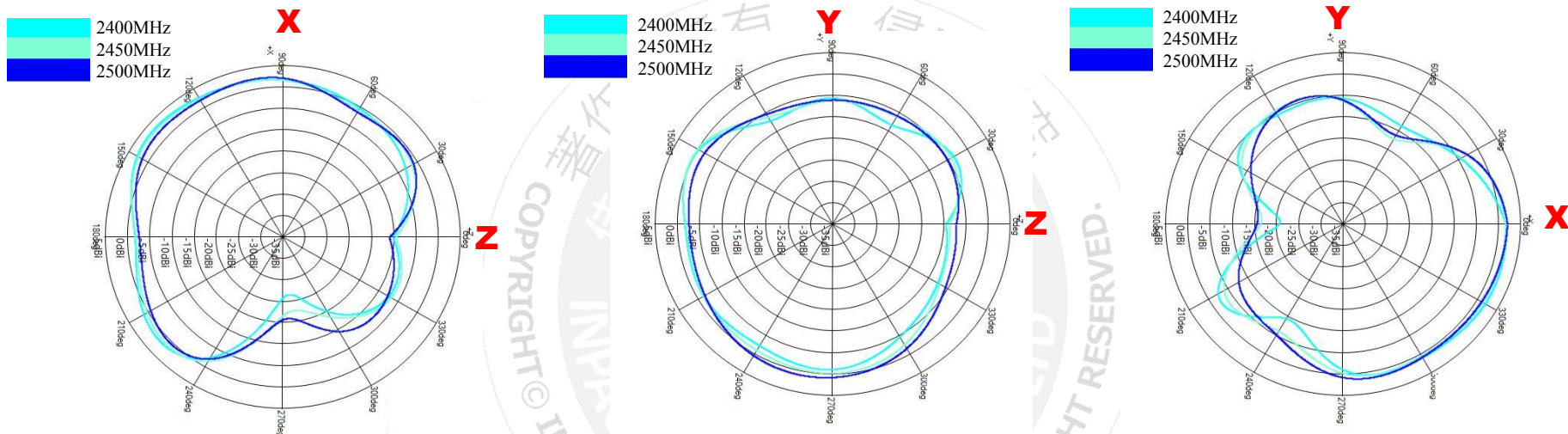


|                 | ZX plane        |               | ZY plane        |               | XY plane        |               |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| Frequency [MHz] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] |
| 5150            | -1.54           | -4.39         | 2.63            | -0.43         | 2.60            | -2.23         |
| 5500            | -0.43           | -3.45         | 3.26            | -0.27         | 2.76            | -2.11         |
| 5850            | 0.10            | -3.05         | 3.02            | -1.33         | 2.23            | -2.41         |

## 2. Antenna Characteristics

WiFi-2-2.4G

### 2.3 2D Radiation Patterns

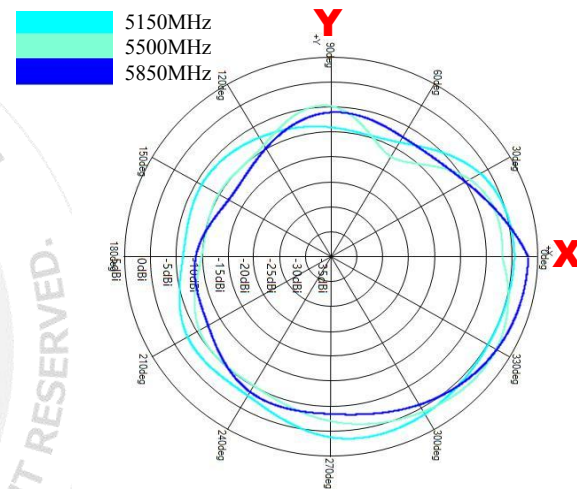
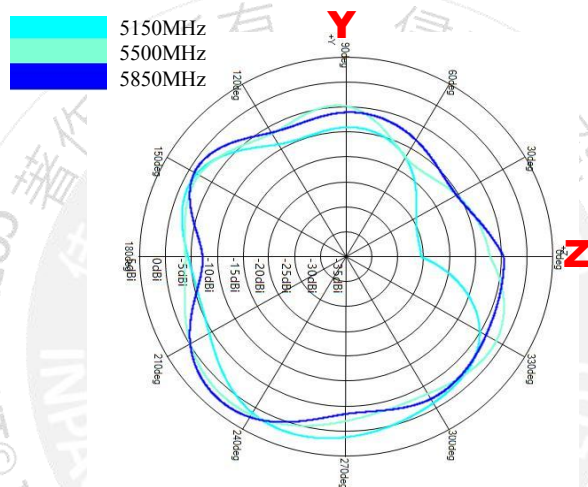
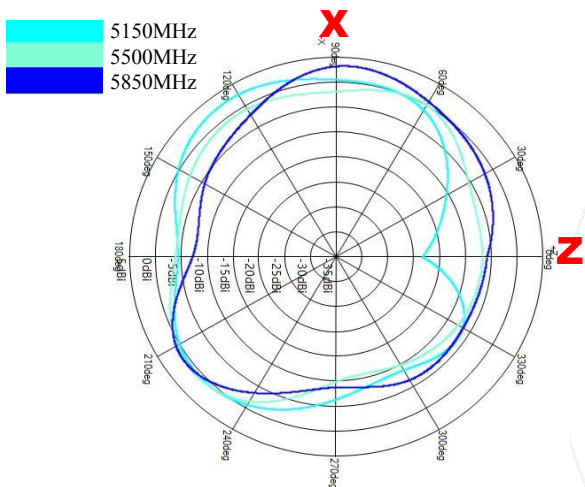


|                 | ZX plane        |               | ZY plane        |               | XY plane        |               |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| Frequency [MHz] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] |
| 2400            | 2.82            | -1.93         | -0.26           | -4.48         | 2.12            | -2.30         |
| 2450            | 2.47            | -1.98         | -0.01           | -3.76         | 1.63            | -2.40         |
| 2500            | 2.15            | -2.16         | 0.77            | -3.04         | 2.15            | -2.26         |

## 2. Antenna Characteristics

### 2.3 2D Radiation Patterns

WiFi-2-5G

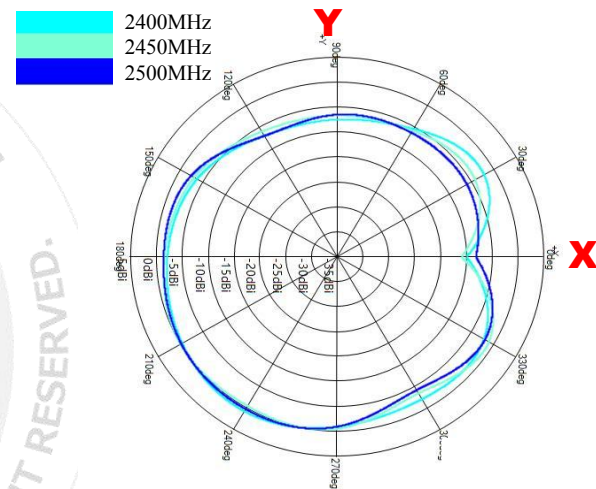
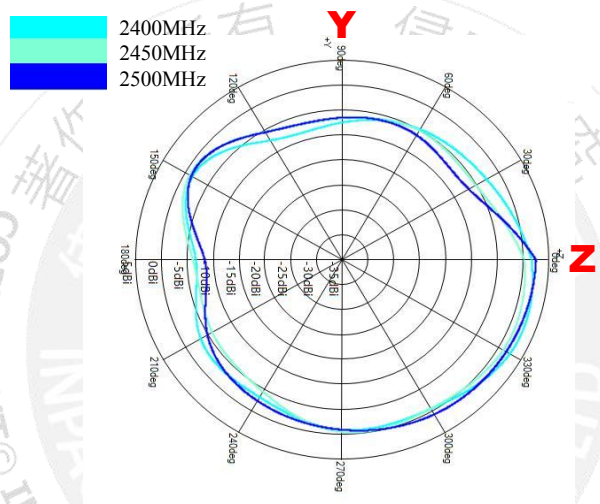
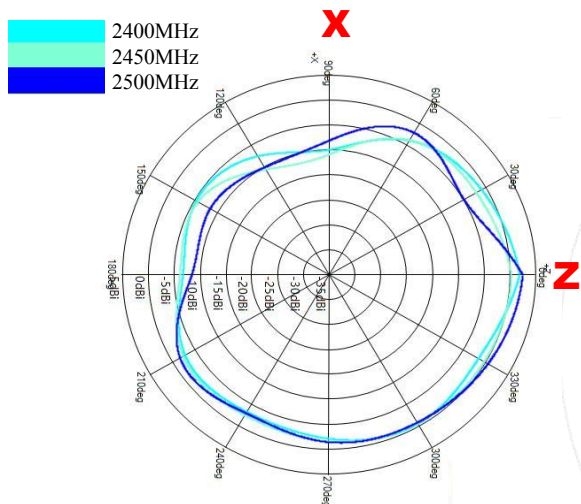


|                 | ZX plane        |               | ZY plane        |               | XY plane        |               |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| Frequency [MHz] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] |
| 5150            | 2.65            | -2.41         | 1.16            | -3.99         | 1.38            | -2.03         |
| 5500            | 0.56            | -3.01         | 1.58            | -3.14         | 1.99            | -3.17         |
| 5850            | 3.24            | -1.71         | 2.10            | -2.97         | 3.24            | -2.55         |

## 2. Antenna Characteristics

### 2.3 2D Radiation Patterns

BT

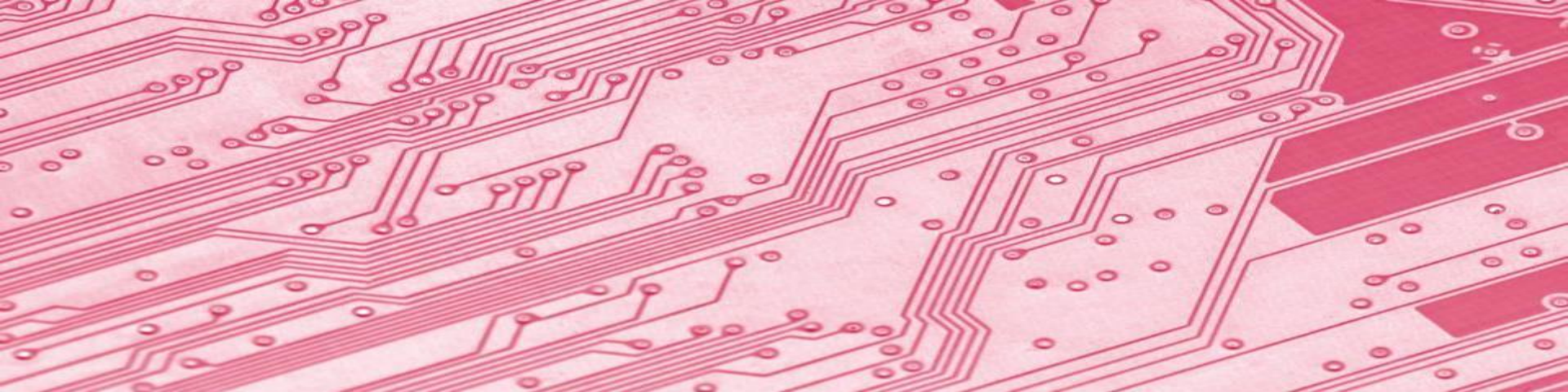


|                 | ZX plane        |               | ZY plane        |               | XY plane        |               |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| Frequency [MHz] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] | Max Value [dBi] | Average [dBi] |
| 2400            | 1.95            | -1.47         | 2.59            | -1.03         | 0.75            | -2.61         |
| 2450            | 0.38            | -1.94         | 1.09            | -1.98         | -0.06           | -2.72         |
| 2500            | 2.56            | -1.02         | 2.61            | -0.86         | 0.26            | -2.85         |

### 3. Summary

- The performance of antennas is shown in table

|                        | WiFi-1-2.4G | WiFi-1-5G | WiFi-2-2.4G | WiFi-2-5G | BT    |
|------------------------|-------------|-----------|-------------|-----------|-------|
| Maximum Efficiency (%) | 59.35       | 58.61     | 63.88       | 64.81     | 56.08 |
| Maximum Gain (dBi)     | 3.06        | 4.13      | 4.26        | 3.48      | 2.81  |



# Title for Image (above image could be replaced)

## Content Details

PASSIVE SYSTEM ALLIANCE  
INPAQ TECHNOLOGY CO., LTD.

# Thank you

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