

# 佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.

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佳邦科技股份有限公司, 地址: 苗栗縣竹南鎮科義街11號  
Add: No. 11, Keyi Street, Zhunan Township, Miaoli County

**PSA**

**PASSIVE SYSTEM ALLIANCE**  
**INPAQ TECHNOLOGY CO., LTD.**

# 光寶\_PIFA TYPE外接天線

Presented by

Kerry Wu

Walsin Technology Corporation

2024/ 12/ 13

<b>Version</b>	<b>Date</b>	<b>Description</b>	<b>Author</b>
V01	2024/12/13	New Release	Kerry

# OUTLINE

## 1. Measurement Information

### 1.1 Experimental Setup

## 2. Antenna Characteristics

### 2.1 S-Parameter

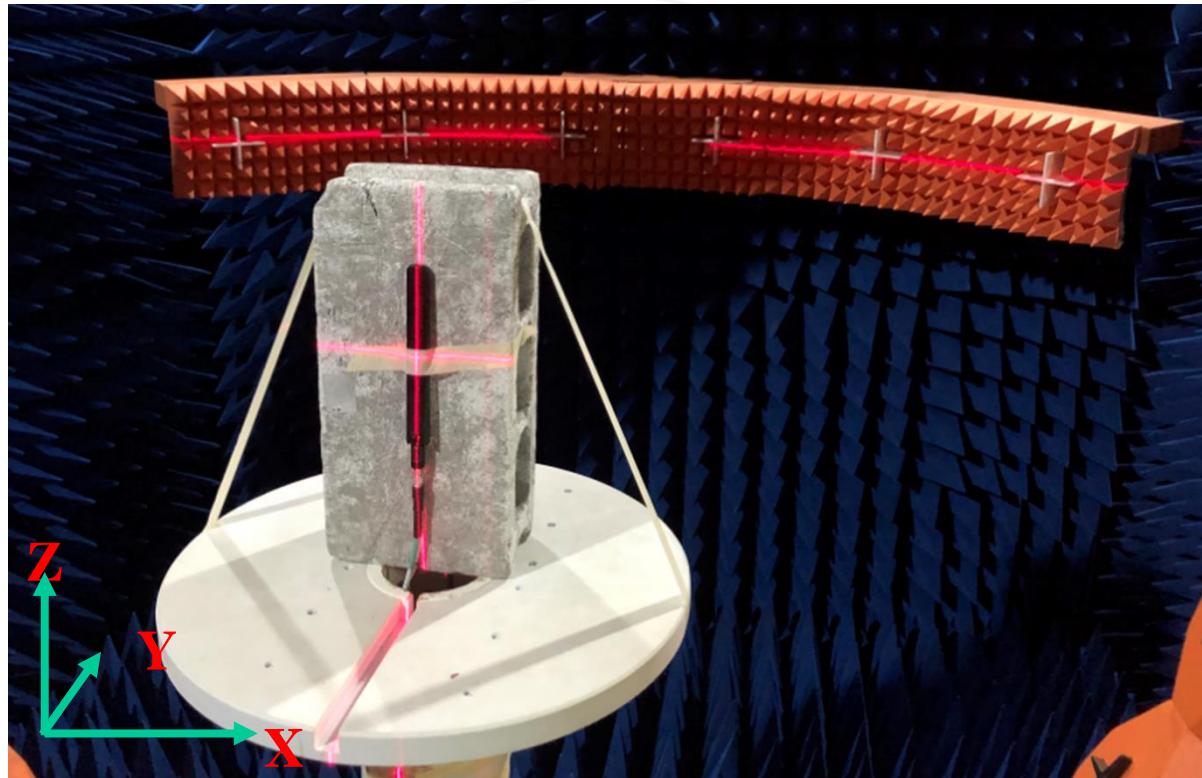
### 2.2 Antenna Efficiency and Peak Gain

### 2.3 2D Radiation Patterns

## 3. Summary

# 1. Measurement Information

## 1.1 Experimental Setup



## 2. Antenna Characteristics

### 2.1

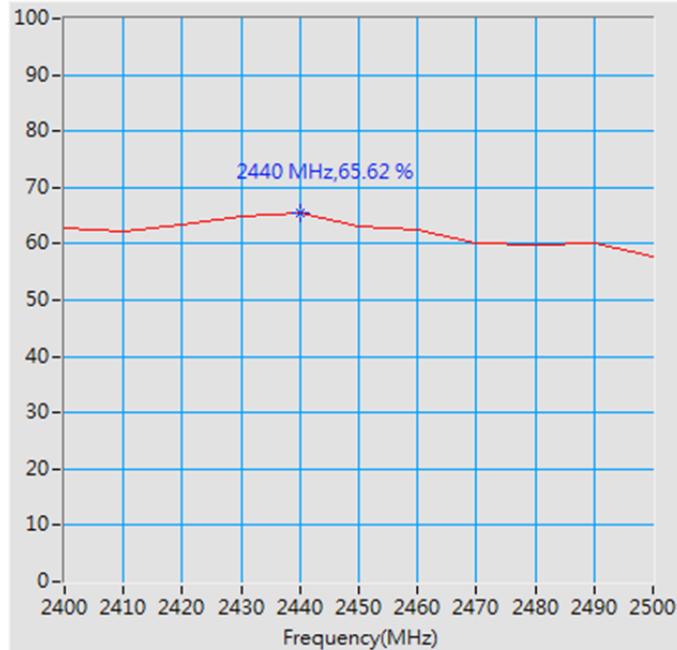
### S-Parameter



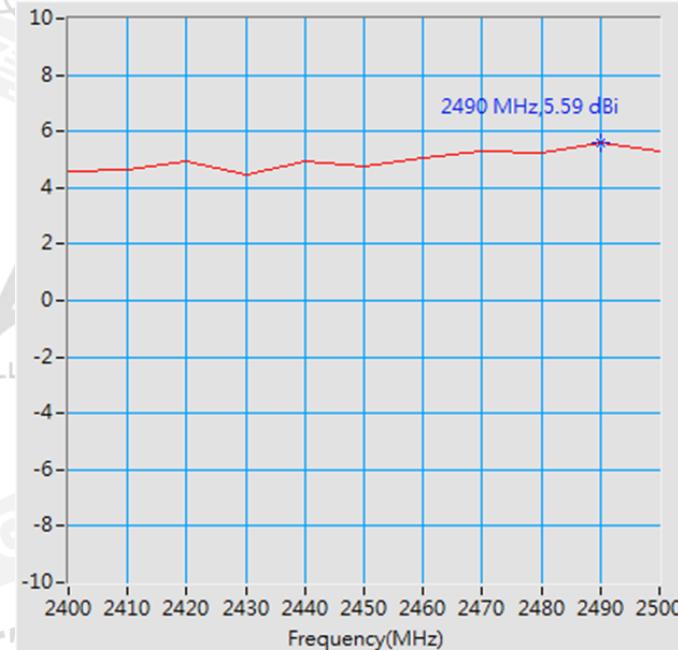
## 2. Antenna Characteristics

2G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2440MHz : 65.62%

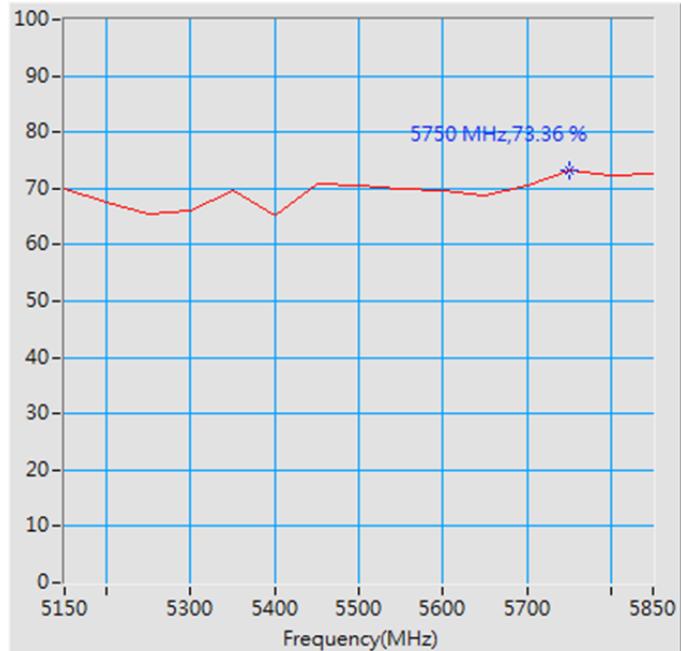


Maximum Peak Gain at 2490MHz : 5.59dBi

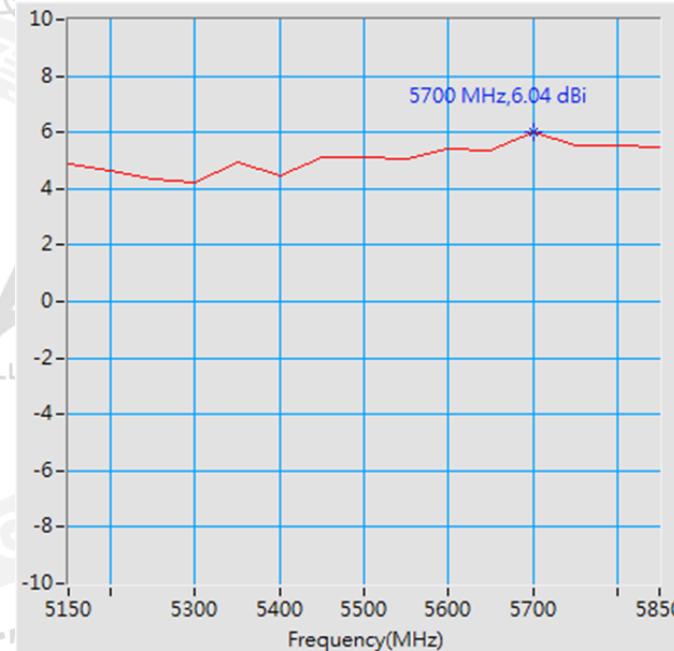
## 2. Antenna Characteristics

5G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5750MHz : 73.36%



Maximum Peak Gain at 5700MHz : 6.04dBi

## 2. Antenna Characteristics

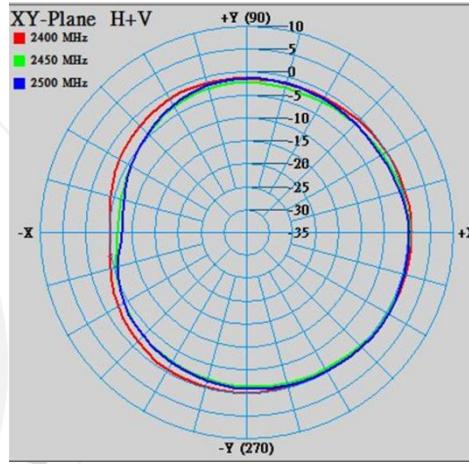
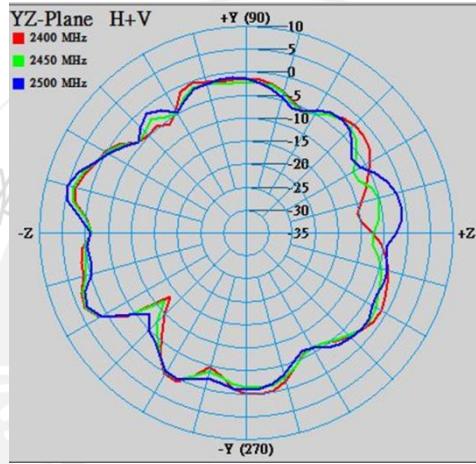
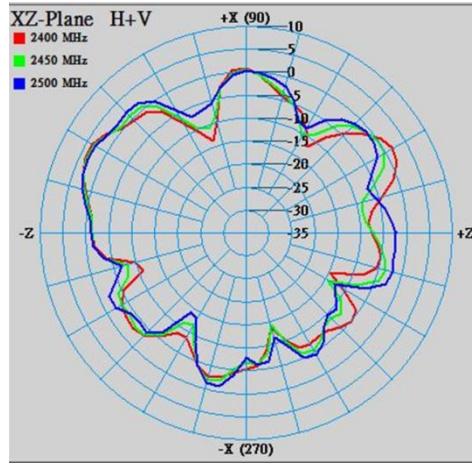
### 2.2 Antenna Efficiency and Peak Gain

Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	62.83	4.58
2450	63.22	4.74
2490	60.12	5.59
2500	57.65	5.28
5150	69.99	4.86
5300	66.45	4.21
5500	70.50	5.11
5700	70.21	6.04
5850	72.47	5.48

## 2. Antenna Characteristics

2G

### 2.3 2D Radiation Patterns

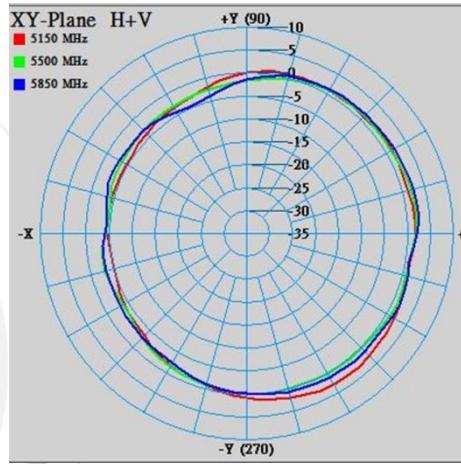
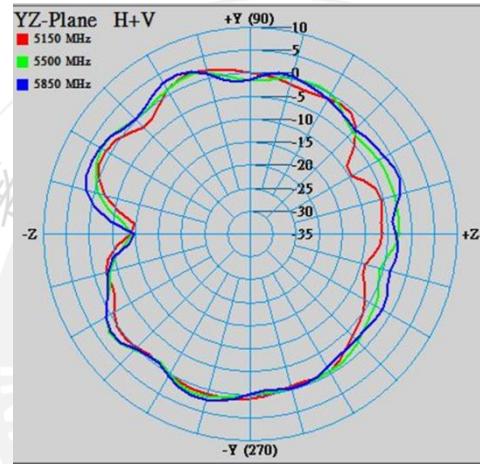
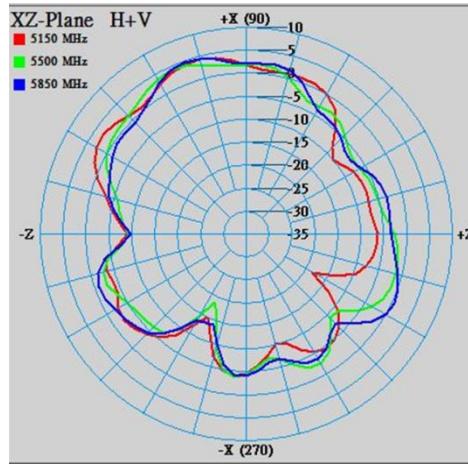


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	3.90	-2.75	3.68	-1.59	0.93	-0.88
2450	3.63	-2.87	4.05	-1.92	0.51	-1.91
2500	3.29	-2.32	5.13	-1.41	0.78	-1.66

## 2. Antenna Characteristics

5G

### 2.3 2D Radiation Patterns

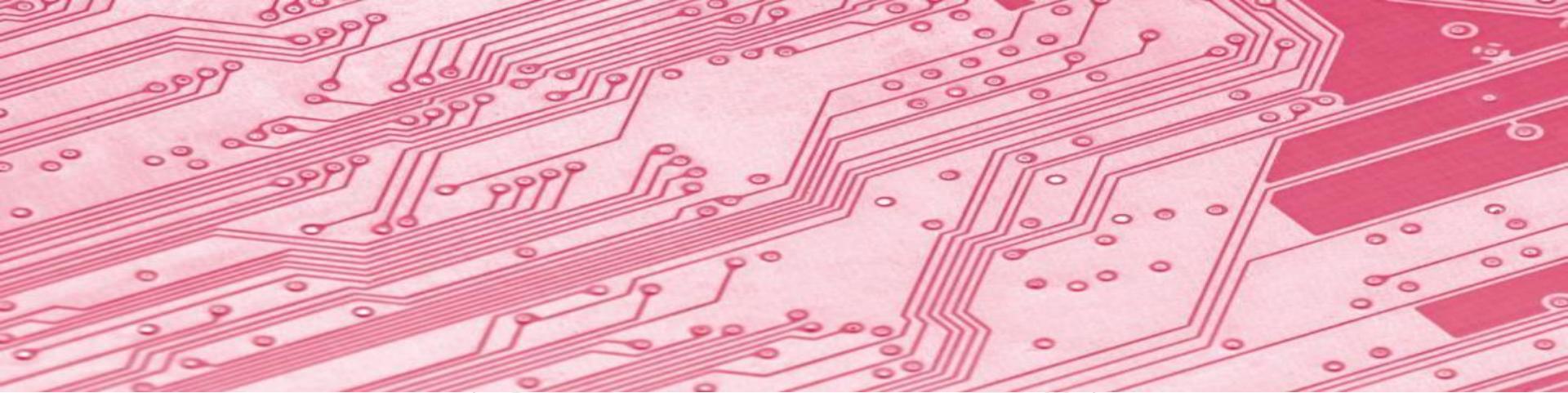


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	4.37	-1.85	2.38	-1.31	3.13	0.01
5500	4.19	-1.88	2.36	-0.61	2.25	-0.56
5850	4.76	-1.55	3.19	-0.17	2.71	-0.25

### 3. Summary

- The performance of antennas is shown in table

Antenna	Brand Name	Model Name	Ant. Type	Connector	Support	Max Peak Gain	ANTENNA Gain To Cable Loss
Specification	Inpaq	RFDPA1615SBLB818	PIFA	IPEX	2.4G+5G+BT	2.4G/BT: 5.59dBi 5G: 6.04dBi	Include cable loss



# Title for Image (above image could be replaced)

## Content Details

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