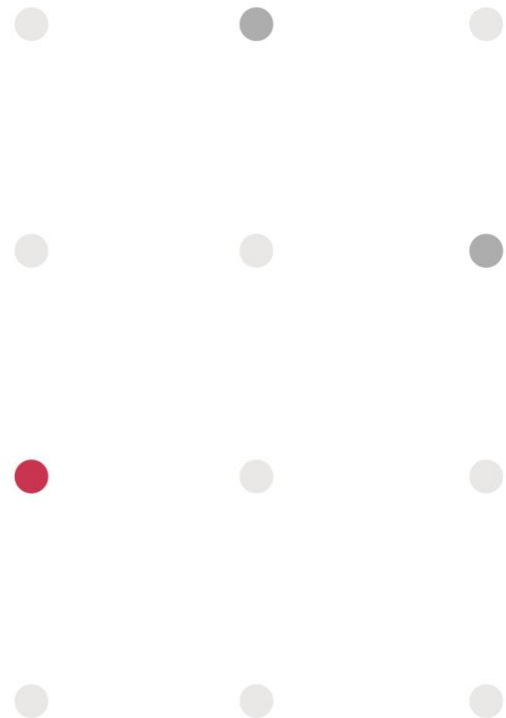


PSA

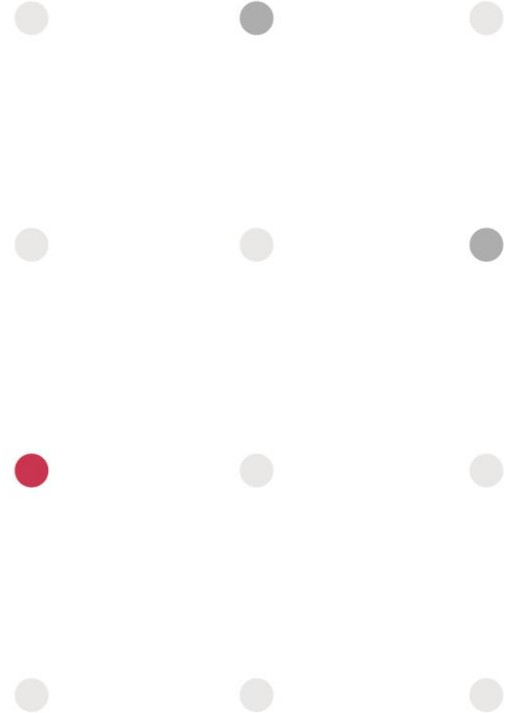
# 佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE  
INPAQ TECHNOLOGY CO., LTD.



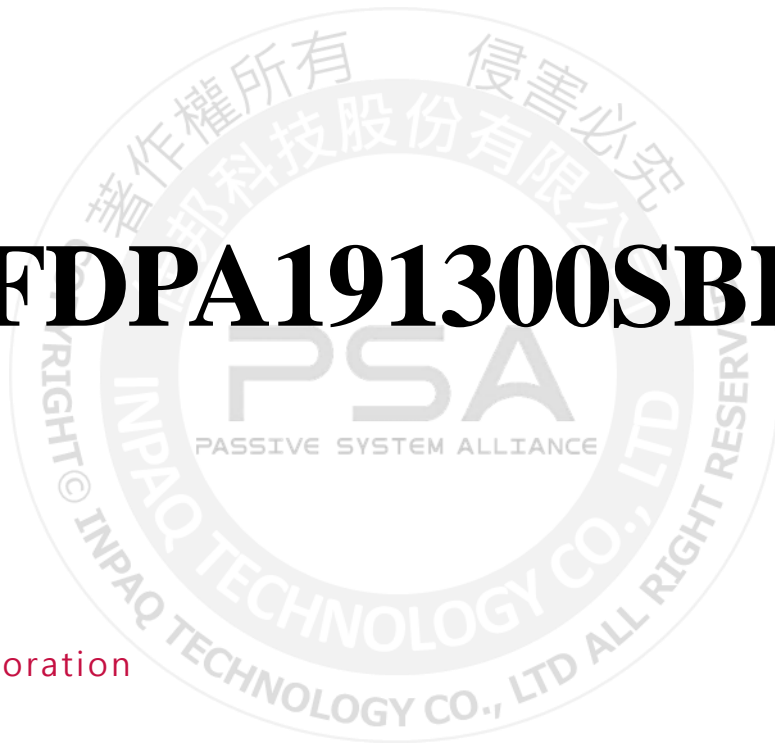
# 亞旭\_RFDPA191300SBLB813

Presented by

Kerry Wu

Walsin Technology Corporation

2023/ 05/ 31



<b>Version</b>	<b>Date</b>	<b>Description</b>	<b>Author</b>
V01	2023/05/31	New Release	Kerry

# OUTLINE

## 1. Measurement Information

### 1.1 Experimental Setup

## 2. Antenna Characteristics

### 2.1 S-Parameter

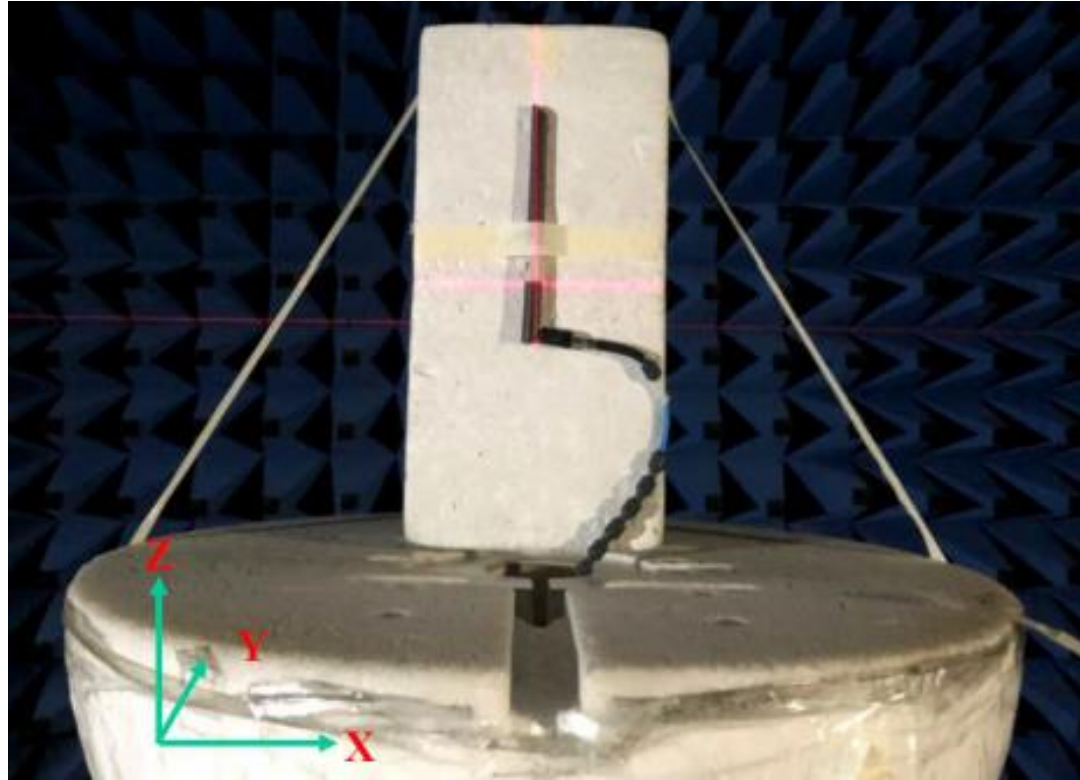
### 2.2 Antenna Efficiency and Peak Gain

### 2.3 3 views of antenna & 2D Radiation Patterns

## 3. Summary

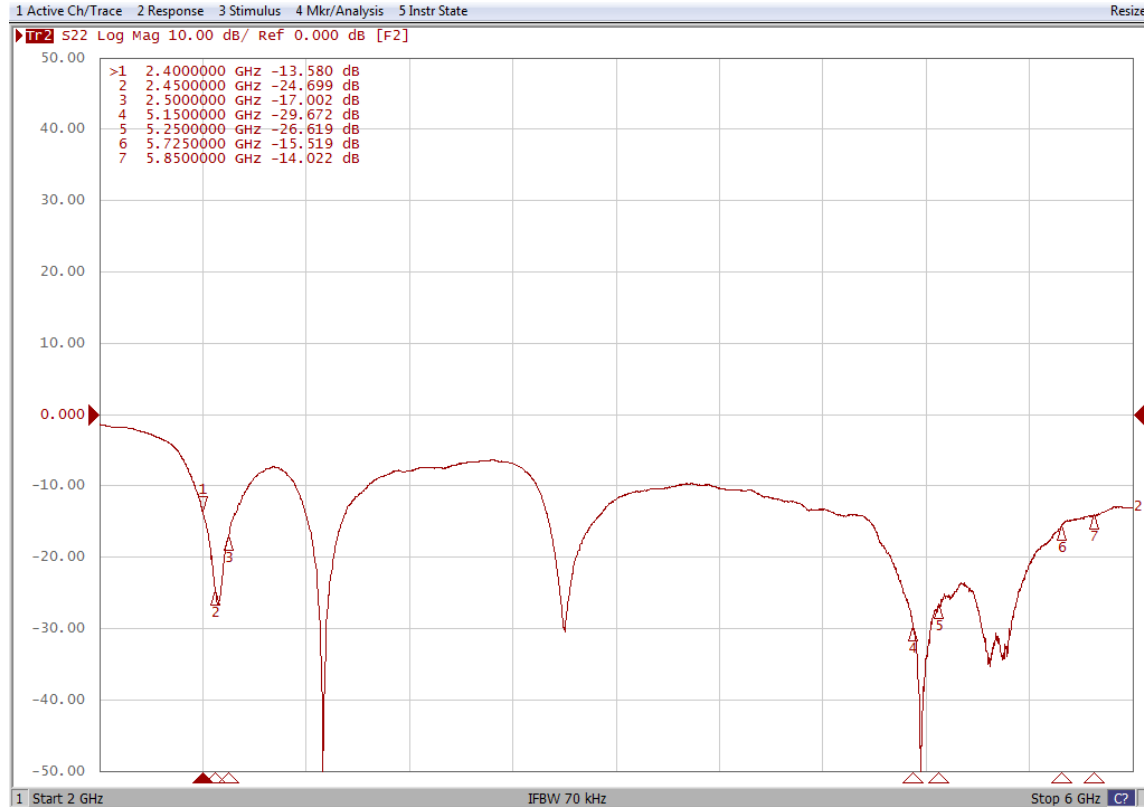
# 1. Measurement Information

## 1.1 Experimental Setup



## 2. Antenna Characteristics

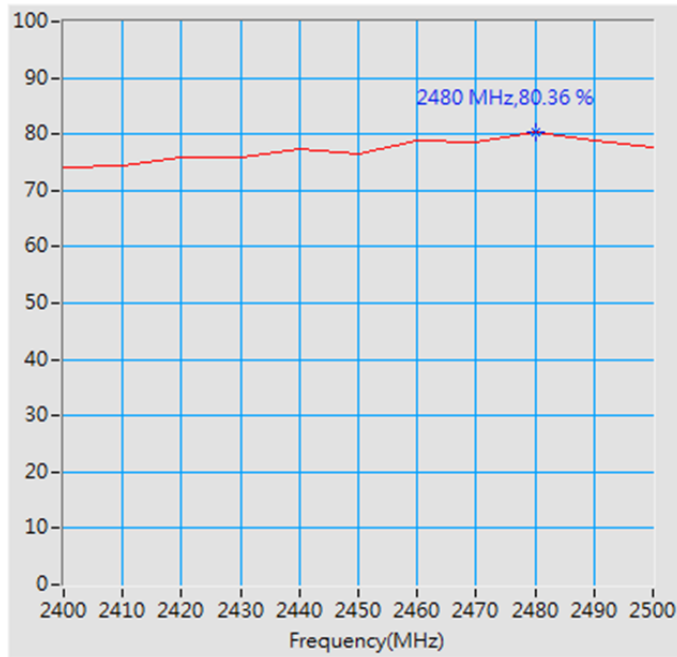
### 2.1 S-Parameter



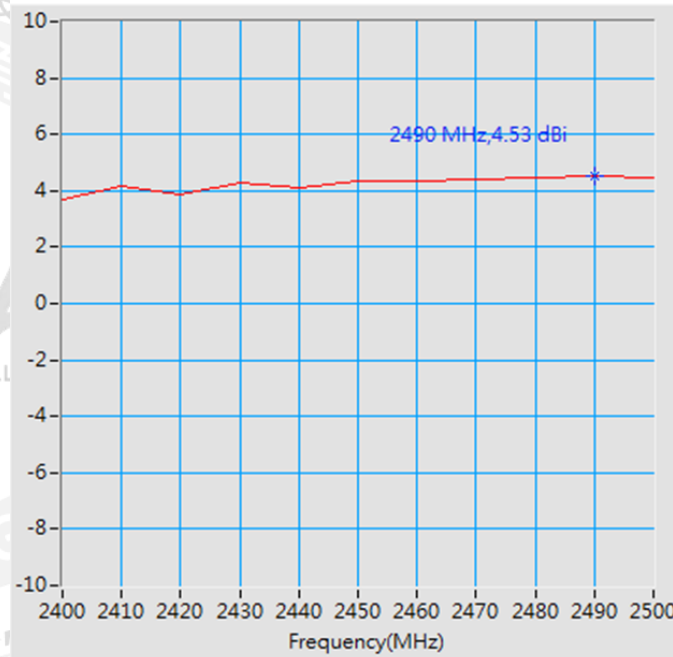
## 2. Antenna Characteristics

2G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2480MHz : 80.36%



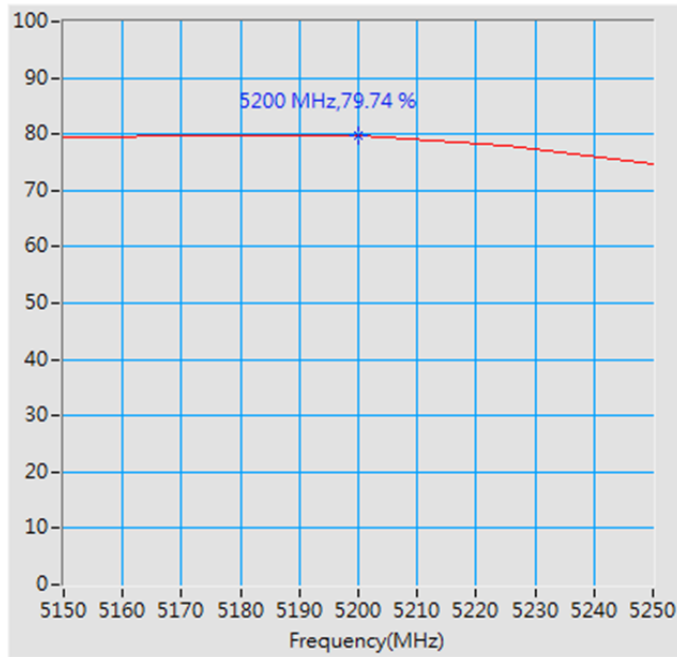
Maximum Peak Gain at 2490MHz : 4.53dBi



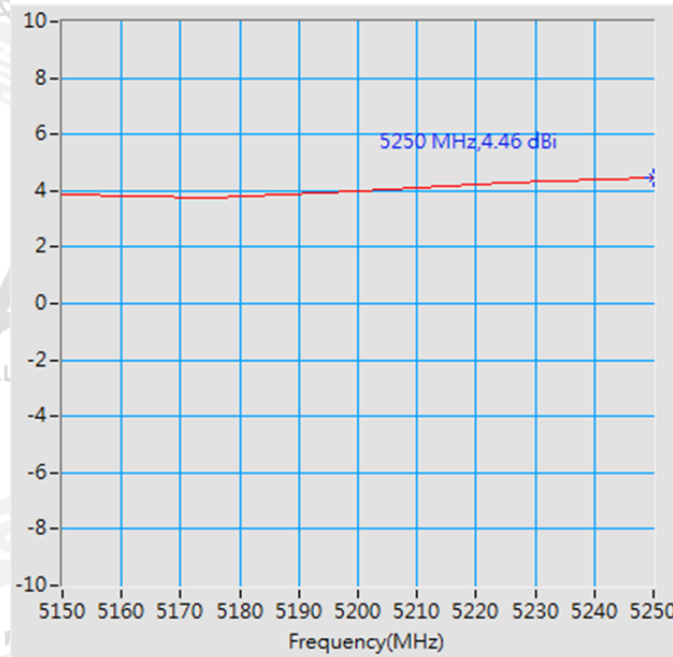
## 2. Antenna Characteristics

5G@5150~5250MHz

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5200MHz : 79.74%

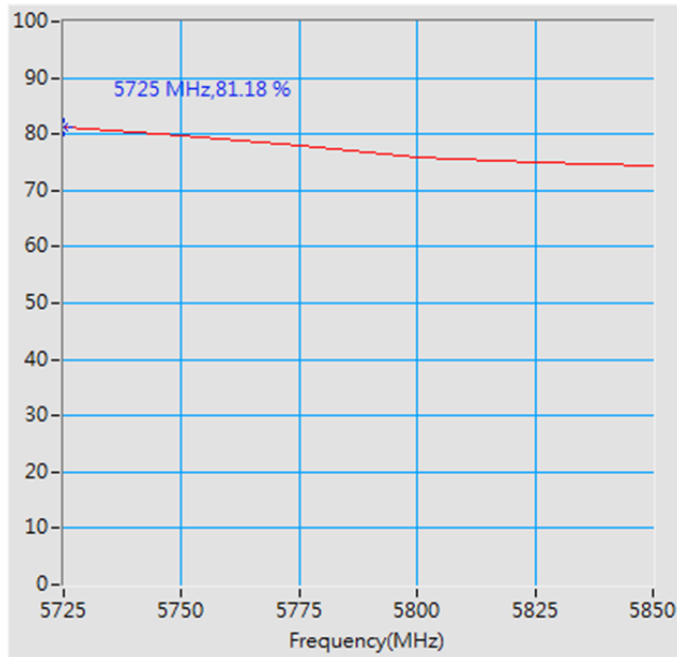


Maximum Peak Gain at 5250MHz : 4.46dBi

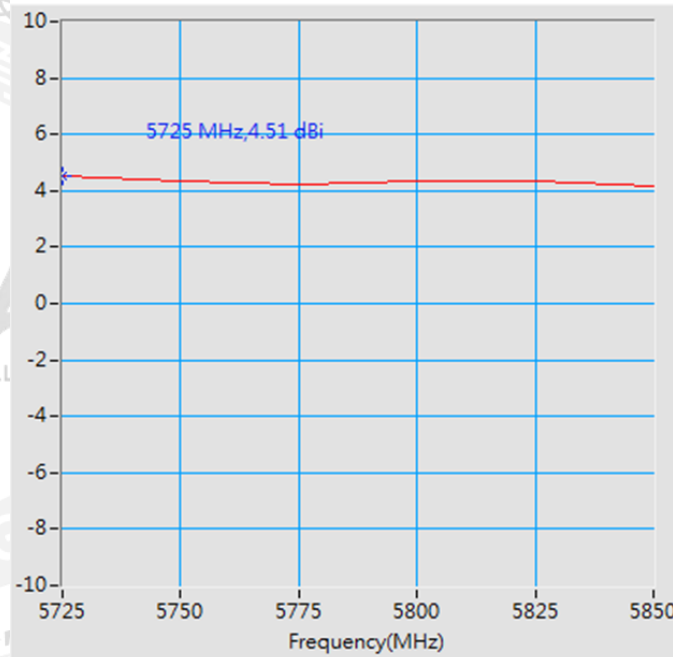
## 2. Antenna Characteristics

5G@5725~5850MHz

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5725MHz : 81.18%



Maximum Peak Gain at 5725MHz : 4.51dBi

## 2. Antenna Characteristics

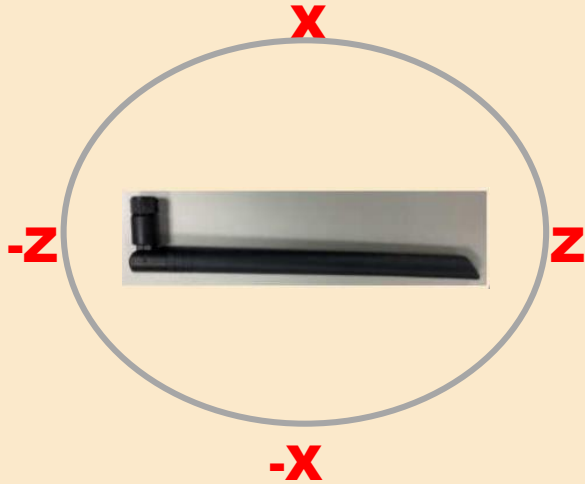
### 2.2 Antenna Efficiency and Peak Gain

	ANT1	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	74.22	3.69
2450	76.40	4.33
2480	80.36	4.48
2490	79.01	4.53
2500	77.54	4.47
5150	79.54	3.85
5200	79.74	3.98
5250	74.81	4.46
5725	81.18	4.51
5800	75.95	4.35
5850	74.39	4.17

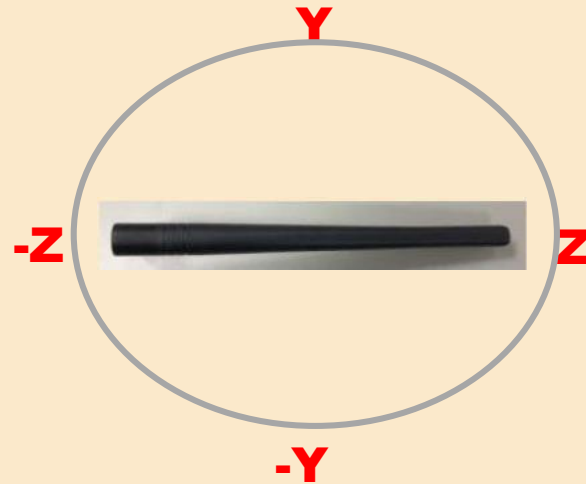
## 2. Antenna Characteristics

### 2.3 3 views of antenna

X-Z plane



Y-Z plane



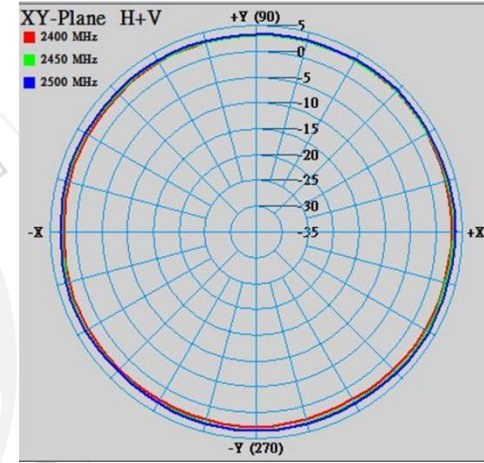
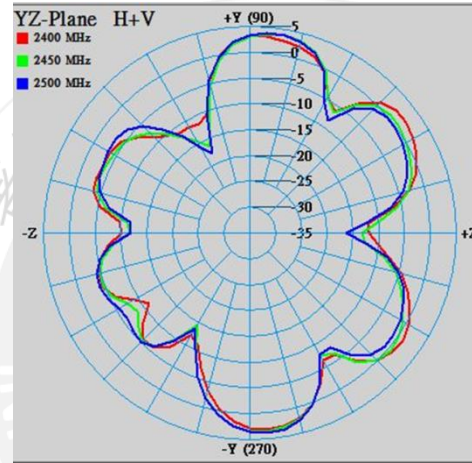
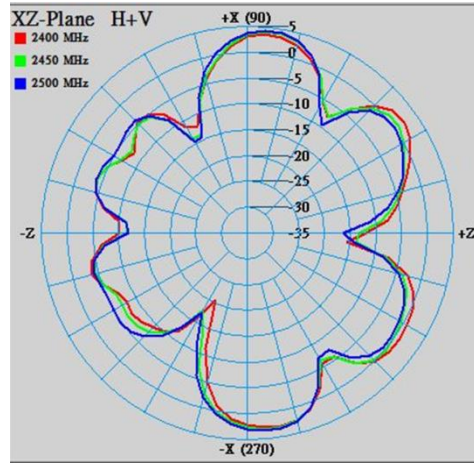
X-Y plane



## 2. Antenna Characteristics

2G

### 2.3 2D Radiation Patterns

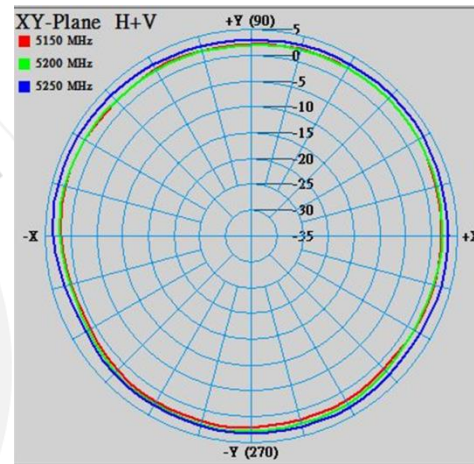
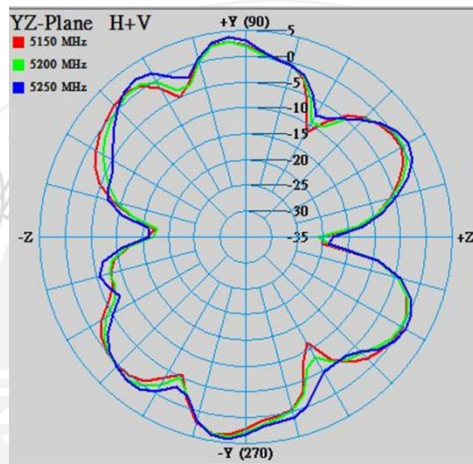
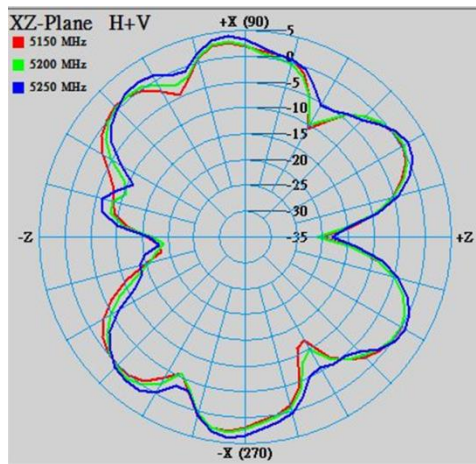


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	3.61	-1.82	3.19	-1.73	3.45	2.81
2450	4.22	-1.89	3.79	-1.82	3.53	3.15
2500	4.40	-1.79	3.92	-1.85	3.75	3.39

## 2. Antenna Characteristics

5G@5150~5250MHz

### 2.3 2D Radiation Patterns

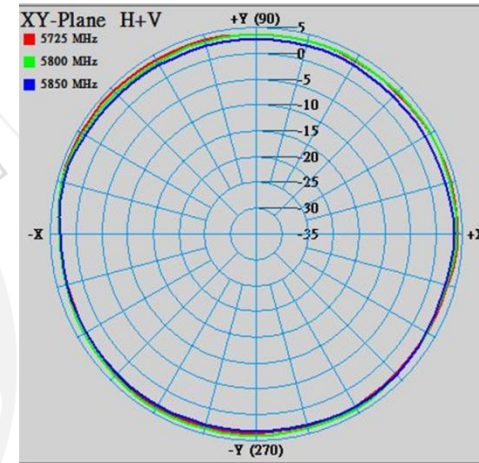
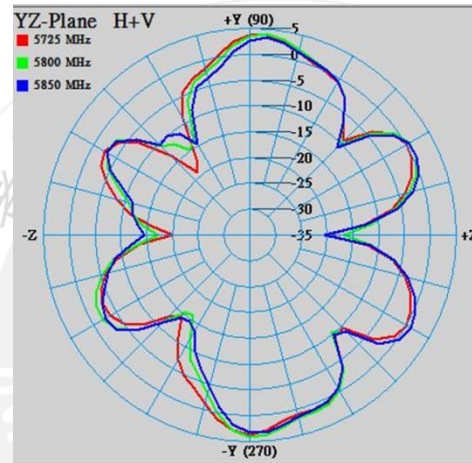
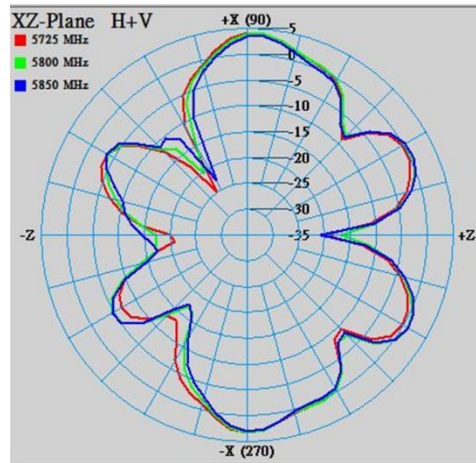


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	2.84	-1.81	3.63	-1.55	2.73	2.01
5200	3.05	-1.79	3.90	-1.58	2.88	2.23
5250	4.02	-1.00	4.32	-0.99	3.80	3.14

## 2. Antenna Characteristics

5G@5725~5850MHz

### 2.3 2D Radiation Patterns



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5725	4.19	-2.03	3.81	-1.97	4.25	3.65
5800	4.09	-1.91	4.08	-1.70	4.12	3.72
5850	3.62	-2.23	3.43	-2.17	3.74	3.12

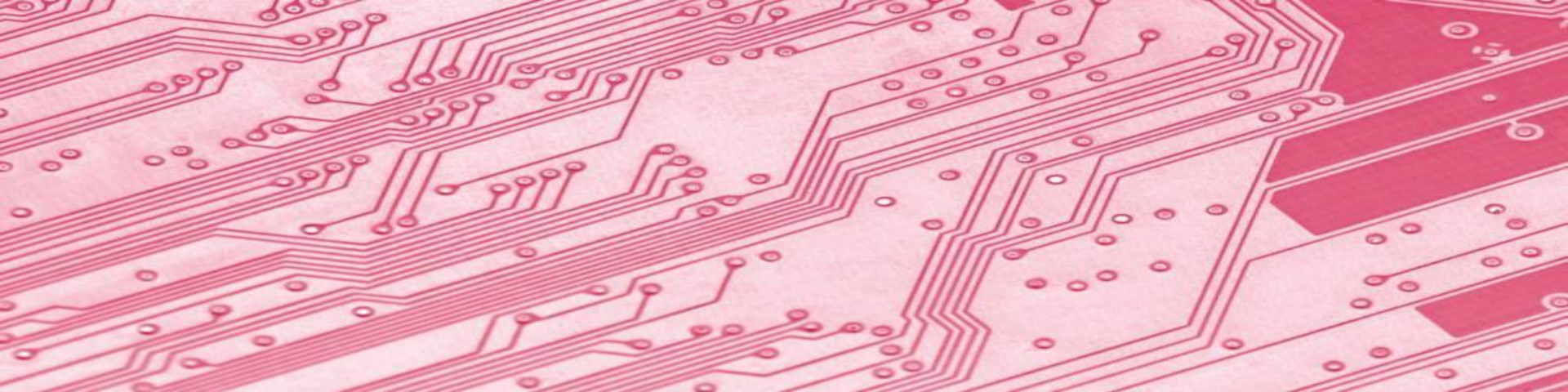


### 3. Summary

- The performance of antennas is shown in table

	2G	5G@5150~5250MHz	5G@5725~5850MHz
Maximum Efficiency (%)	80.36	79.74	81.18
Maximum Gain (dBi)	4.53	4.46	4.51





# Title for Image (above image could be replaced)

## Content Details

PASSIVE SYSTEM ALLIANCE  
INPAQ TECHNOLOGY CO., LTD.

WE CONNECT WE PROTECT **PSA**

# Thank you

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