

**PSA**

**PASSIVE SYSTEM ALLIANCE**  
**WALSin TECHNOLOGY CORPORATION**

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# 光寶\_RFPCA370817IMLB301

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2020/11/12

<b>Version</b>	<b>Date</b>	<b>Description</b>	<b>Author</b>
V01	2020/11/12	New Release	Kerry

# OUTLINE

## 1. Measurement Information

### 1.1 Experimental Setup

## 2. Antenna Characteristics

### 2.1 Return Loss

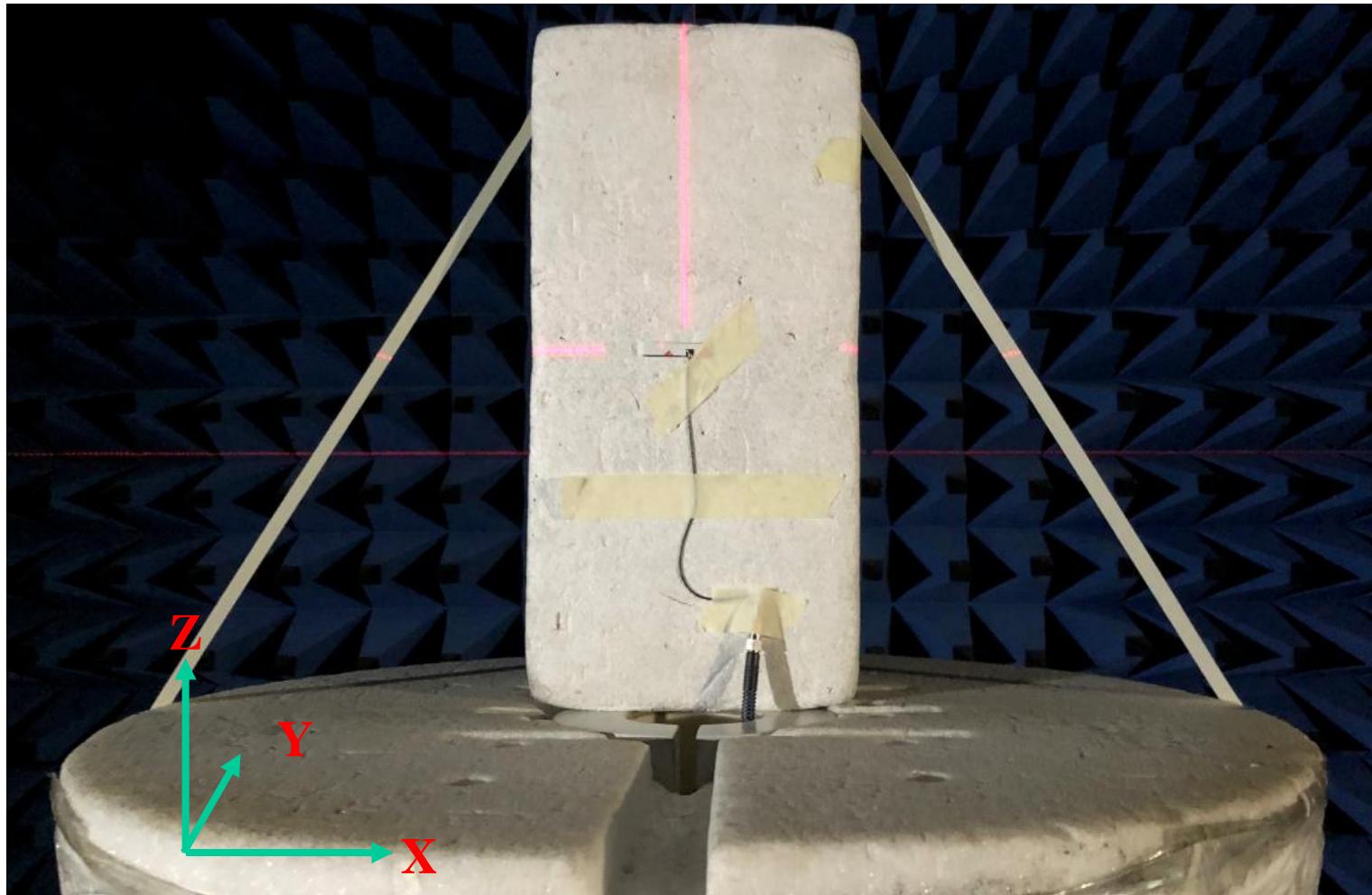
### 2.2 Antenna Efficiency and Peak Gain

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

## 3. Summary

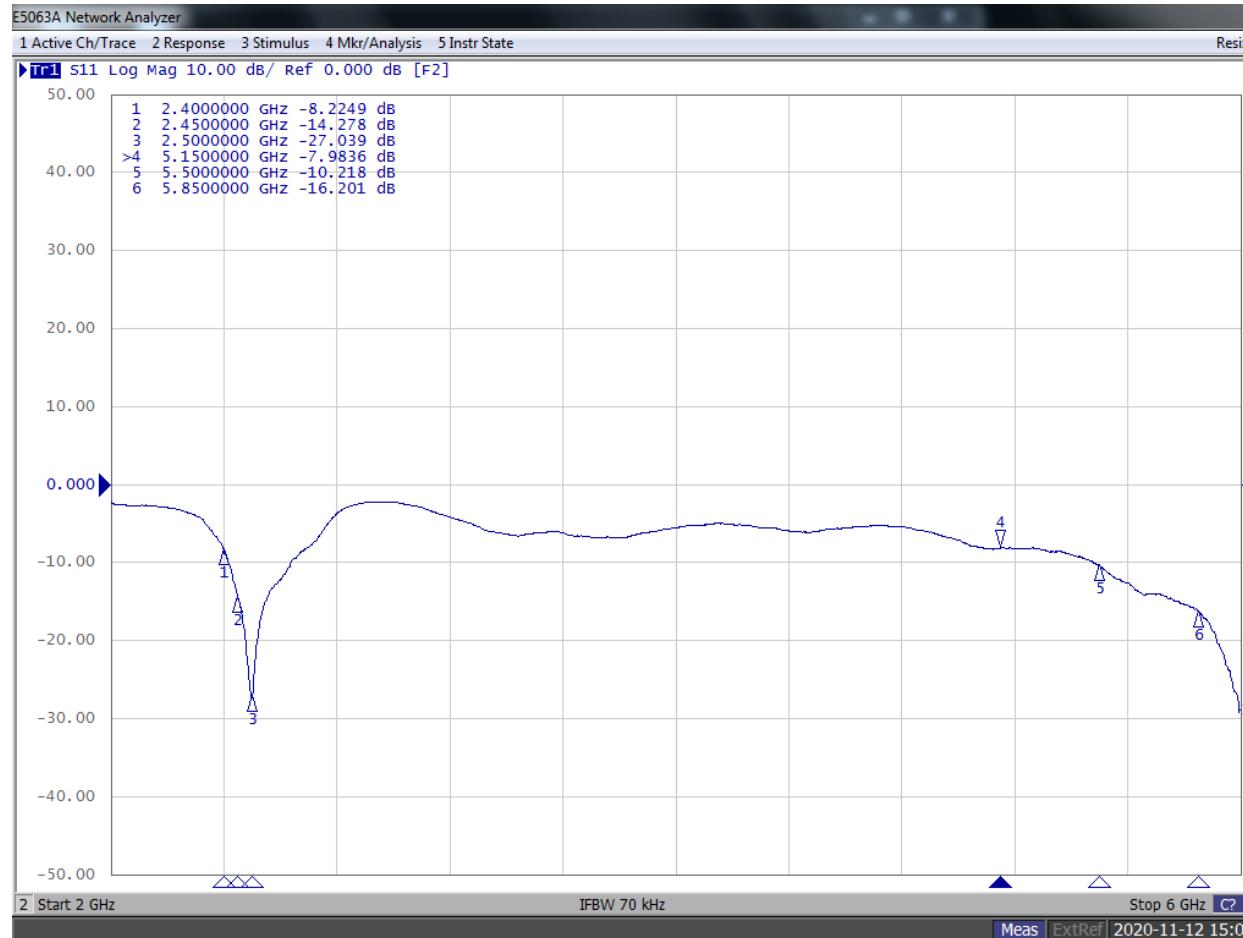
# 1. Measurement Information

## 1.1 Experimental Setup



## 2. Antenna Characteristics

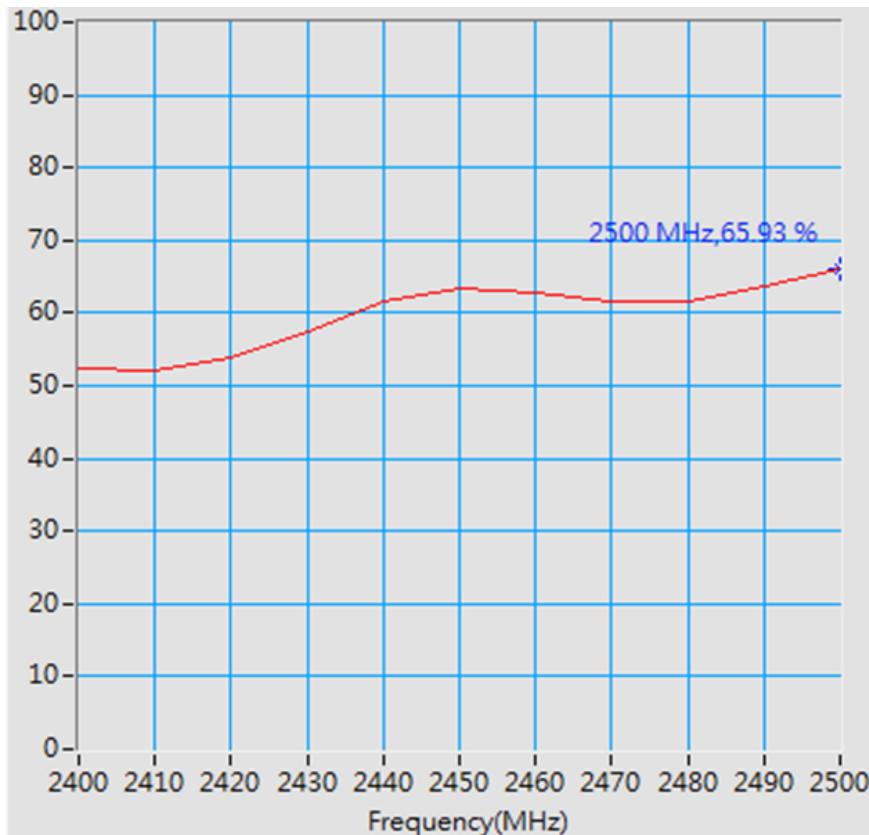
### 2.1 Return Loss



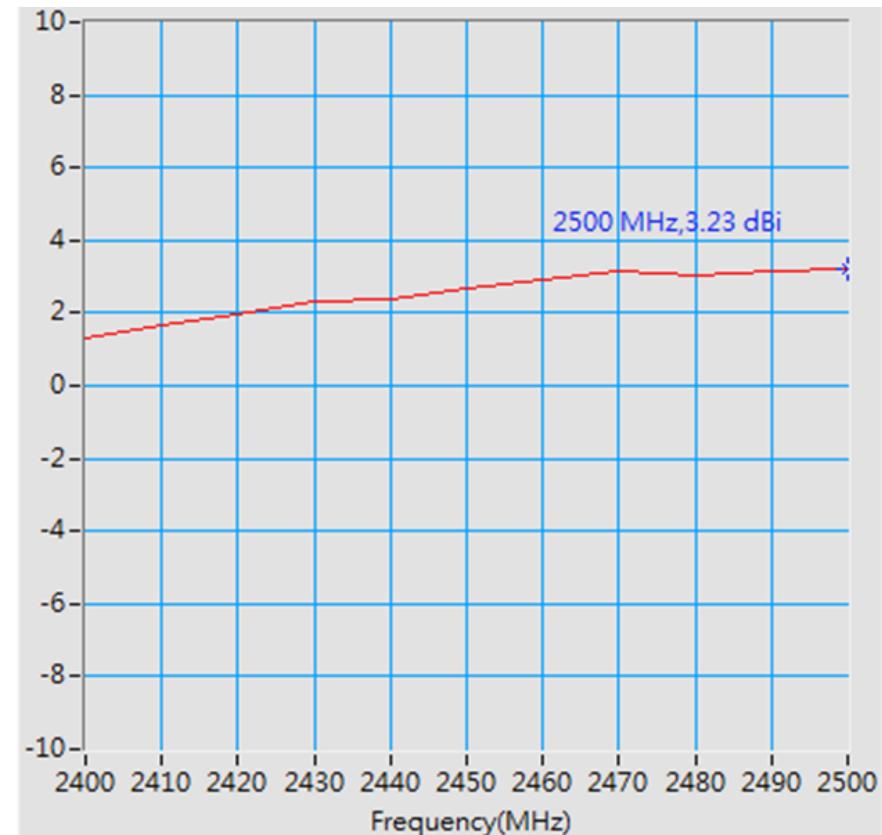
## 2. Antenna Characteristics

2G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2500MHz : 65.93%

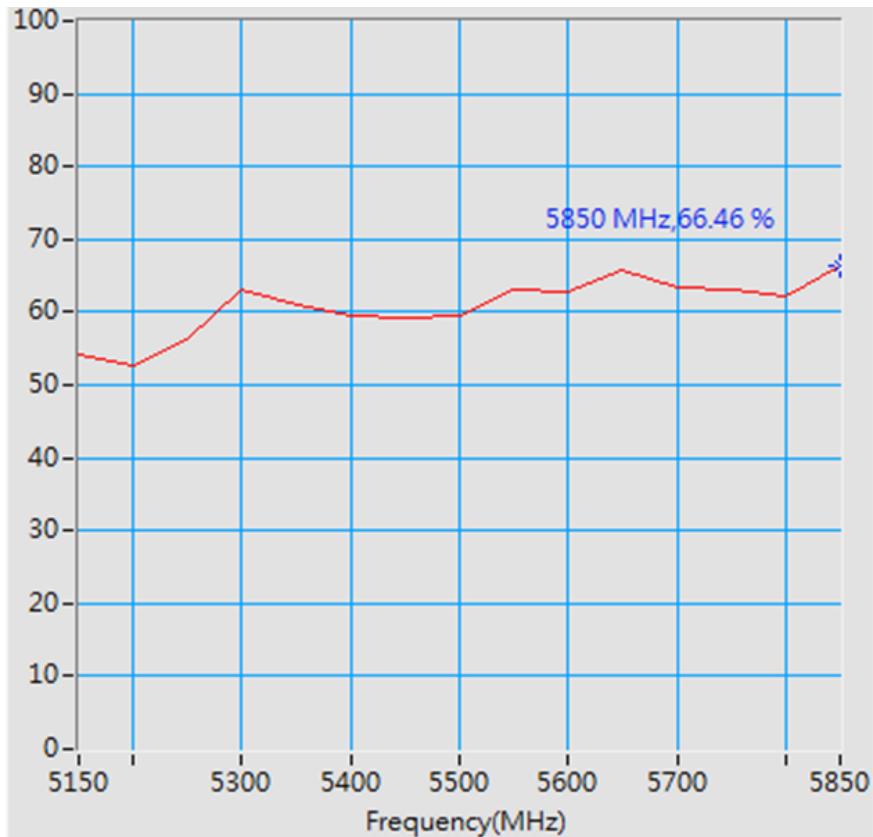


Maximum Peak Gain at 2500MHz : 3.23dBi

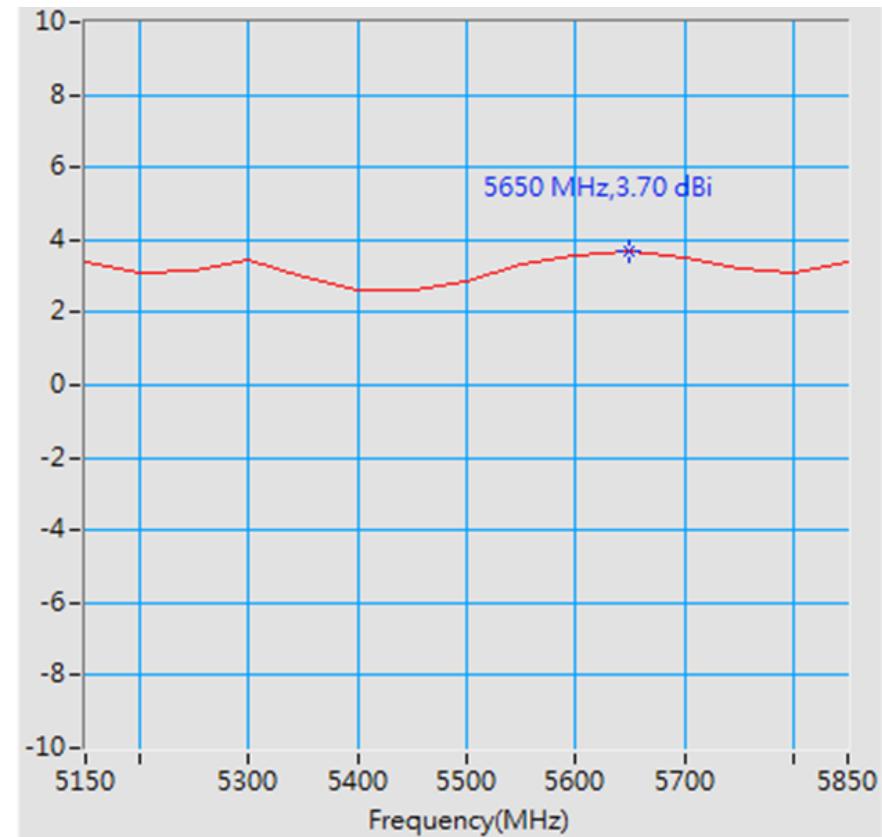
## 2. Antenna Characteristics

5G

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5850MHz : 66.46%



Maximum Peak Gain at 5650MHz : 3.70dBi

## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain

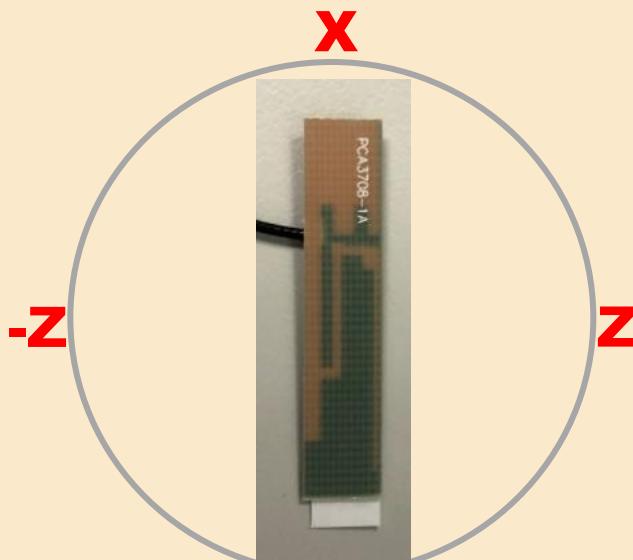
2G		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
2.4	52.31	1.32
2.45	63.48	2.69
2.5	65.93	3.23

5G		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
5.15	54.28	3.38
5.5	59.54	2.83
5.85	66.46	3.42

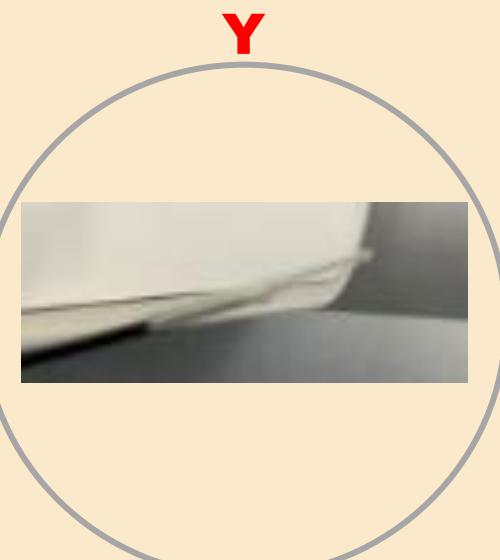
## 2. Antenna Characteristics

### 2.3 3 views of antenna

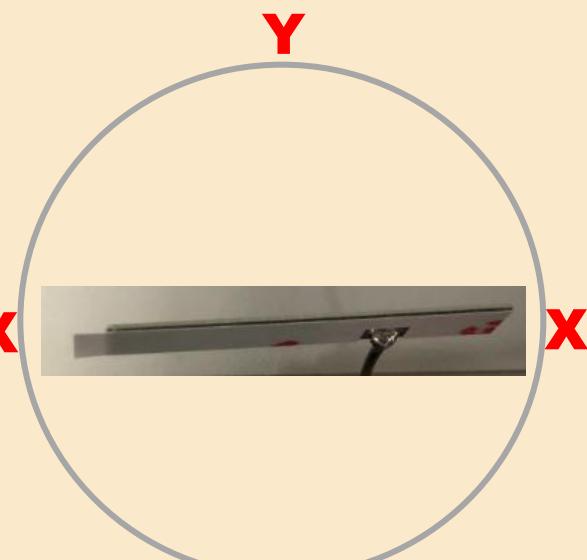
X-Z plane



Y-Z plane



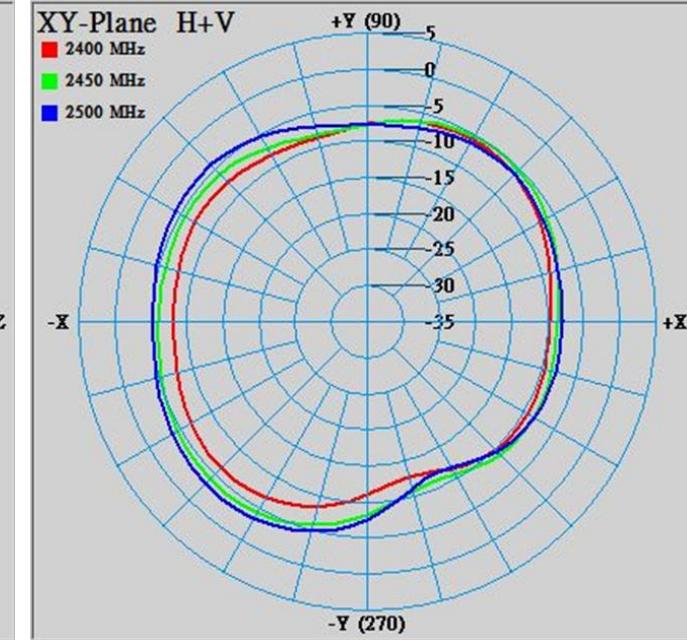
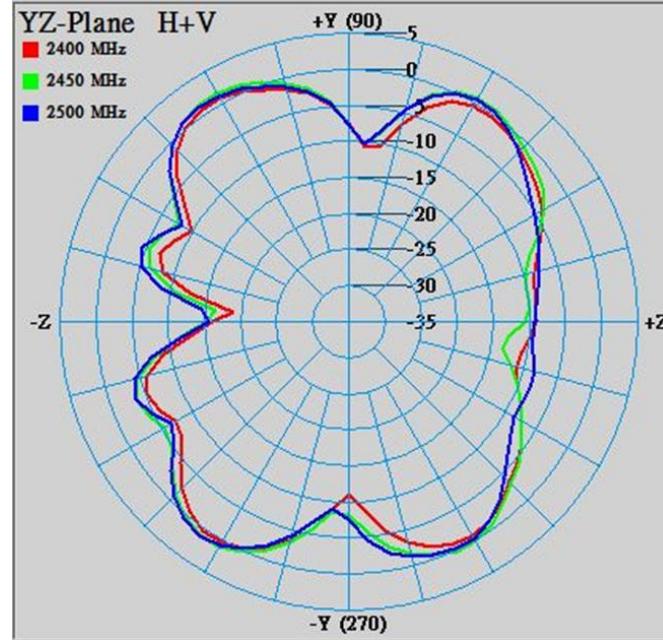
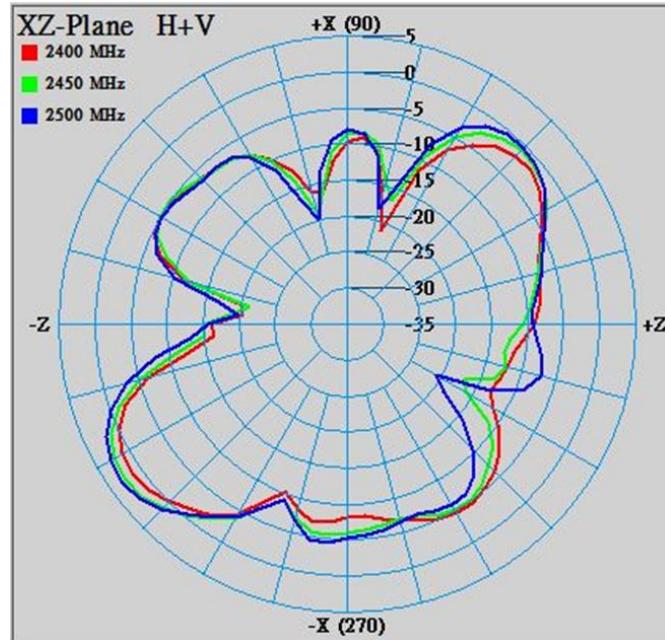
X-Y plane



## 2. Antenna Characteristics

2G

### 2.3 2D Radiation Patterns

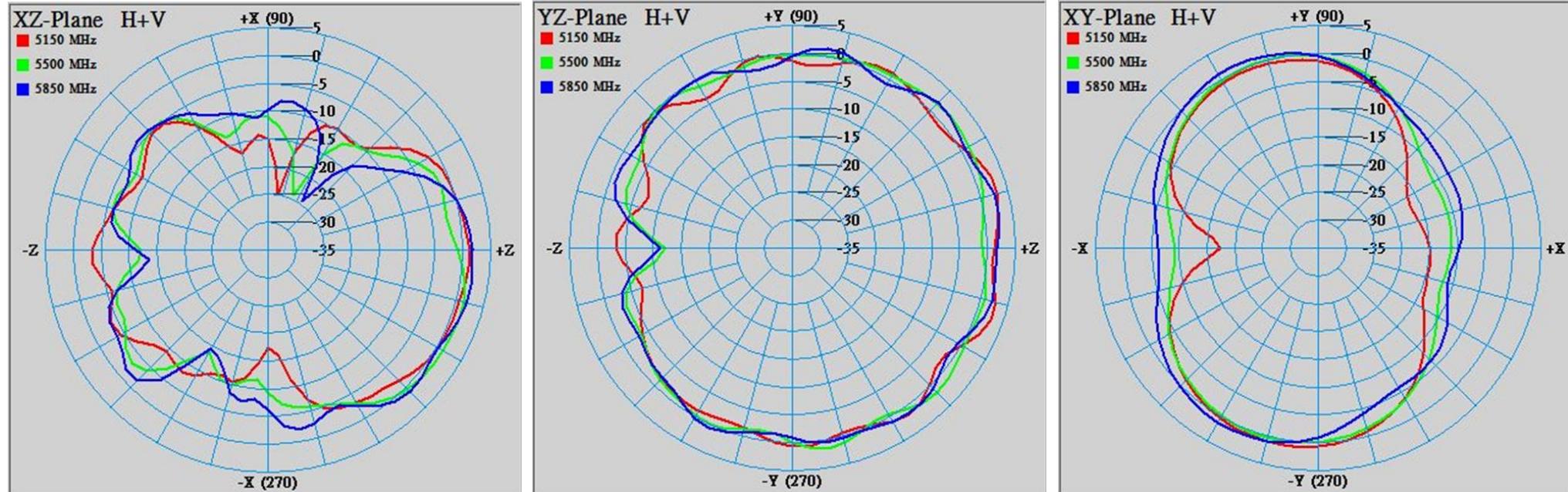


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.30	-5.66	0.85	-3.77	-5.85	-8.03
2450	2.68	-4.90	1.66	-2.87	-4.09	-6.59
2500	3.23	-4.49	1.28	-3.08	-3.23	-6.05

## 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	1.19	-4.22	3.01	-0.52	1.01	-3.63
5500	1.38	-4.37	1.89	-0.47	0.26	-3.33
5850	2.03	-3.42	2.64	-0.21	1.24	-2.57

### 3. Summary

- The performance of antennas is shown in table

	2G	5G
Maximum Efficiency (%)	<b>65.93</b>	<b>66.46</b>
Maximum Gain (dBi)	<b>3.23</b>	<b>3.70</b>

# Thank you

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