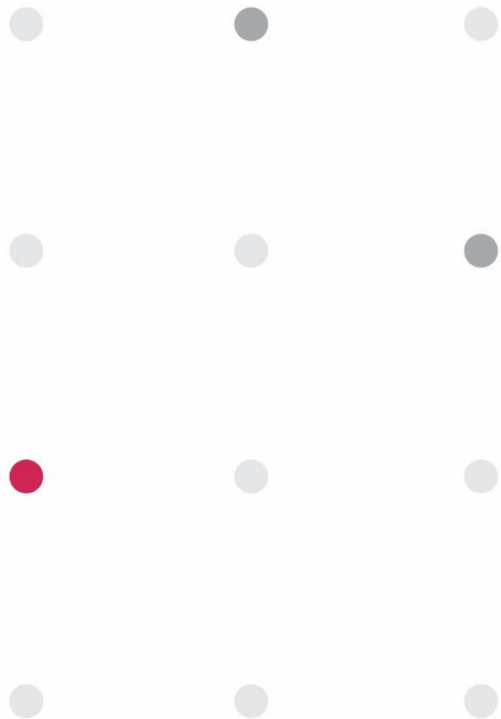


PSA

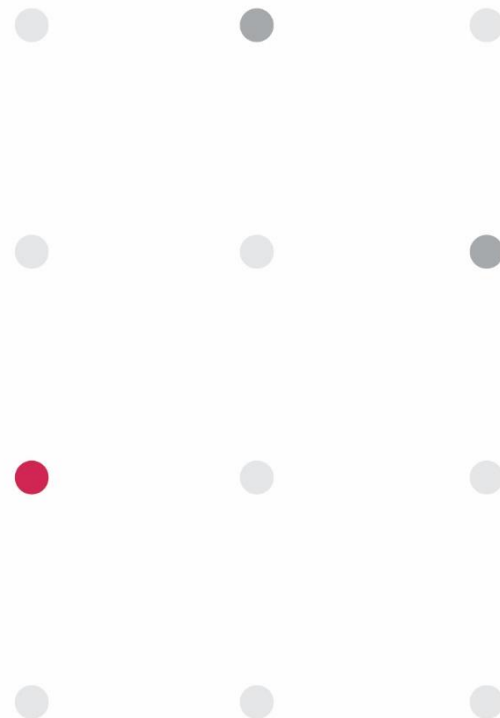
# 佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE  
INPAQ TECHNOLOGY CO., LTD.



# 翊虹\_EQM100-1B Printed Antenna

Presented by

Ken Chen

2023/10/31

Version	Date	Description	Author
V01	2023/10/31	New Release	Ken & Sam

# OUTLINE

## 1. Measurement Information

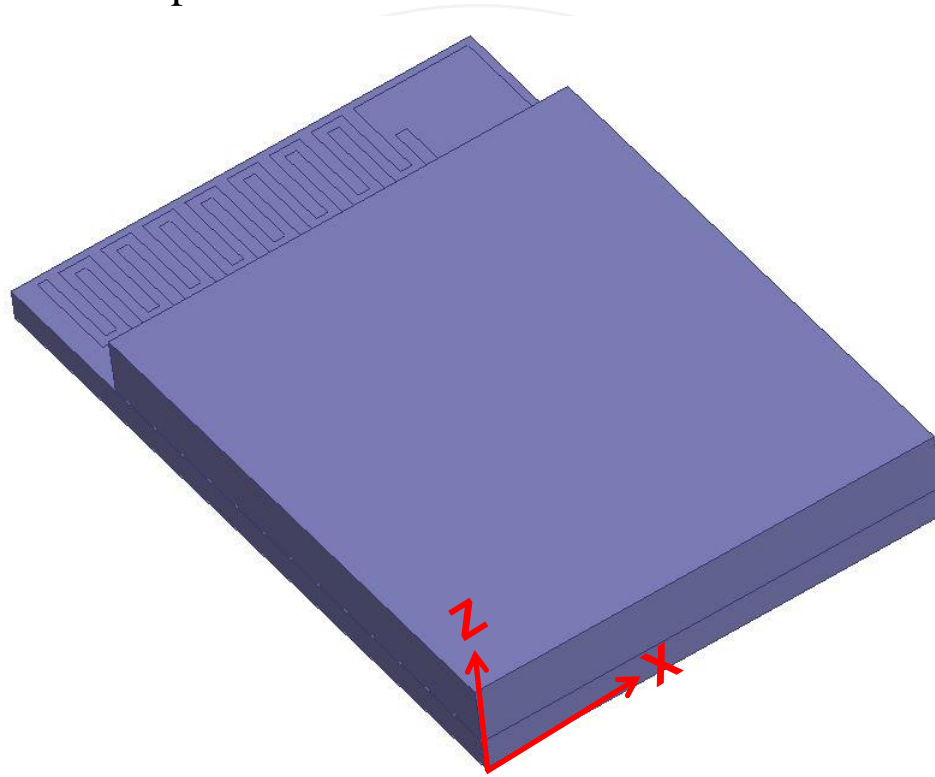
- 1.1 Experimental Setup
- 1.2 Antenna Solution Detail

## 2. Antenna Characteristics

- 2.1 S-Parameter
- 2.2 Antenna Efficiency and Peak Gain
- 2.3 3 views of antenna & 2D Radiation Patterns

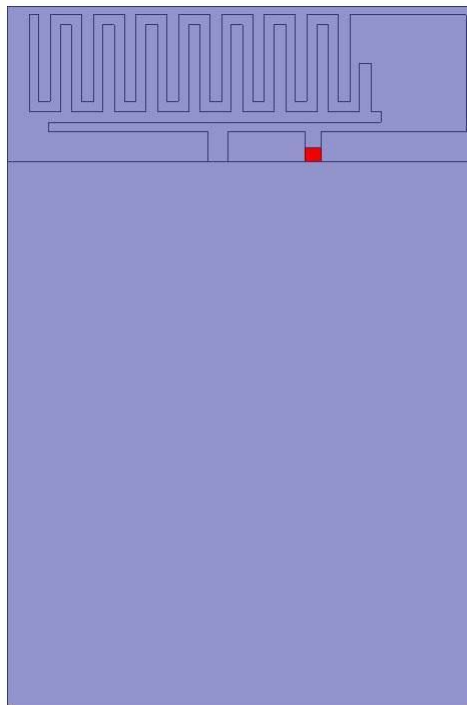
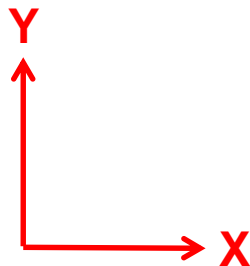
# 1. Measurement Information

## 1.1 Experimental Setup



# 1. Measurement Information

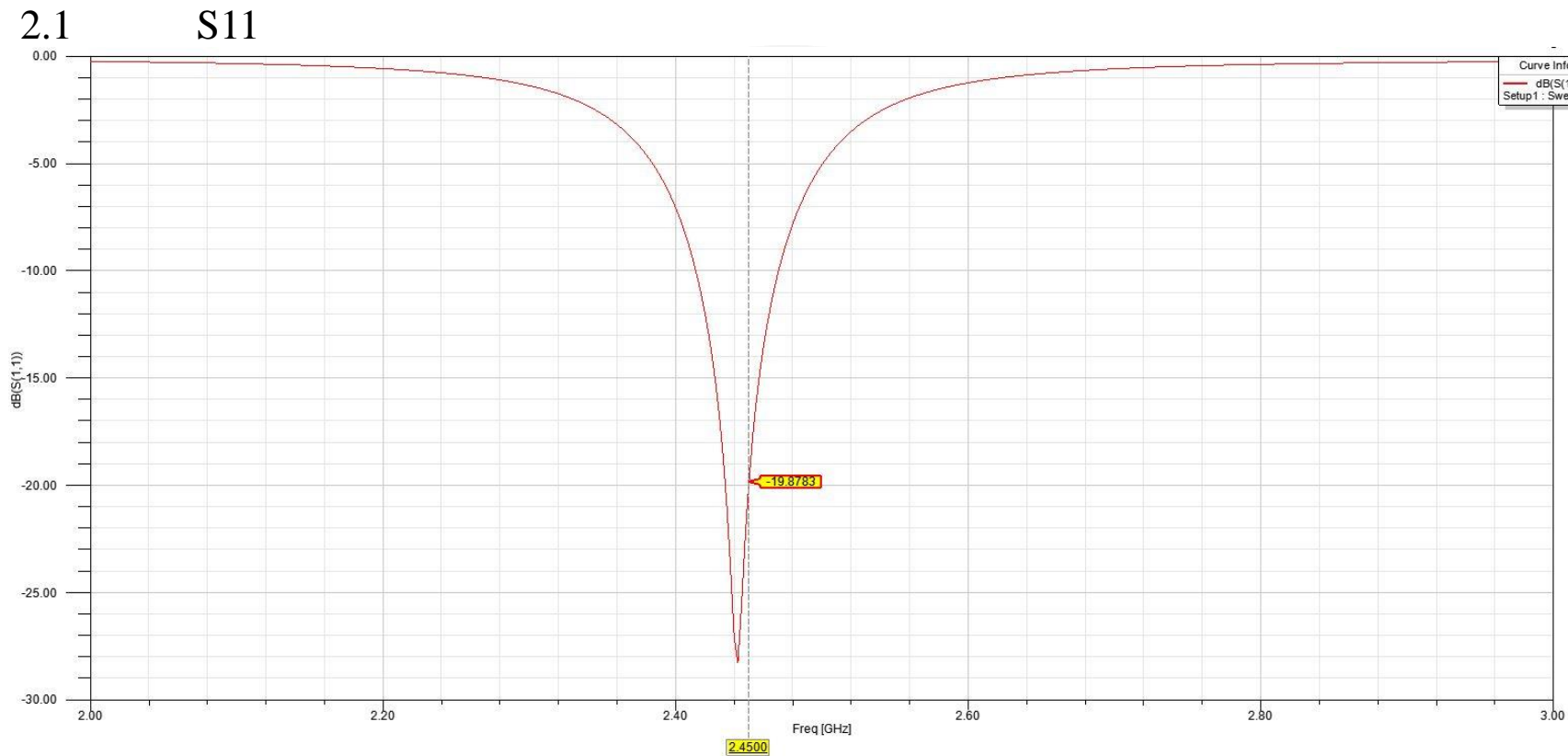
## 1.2 Antenna Solution Detail



Module Size :  
 $18 \times 12 \times 0.8 \text{ mm}$

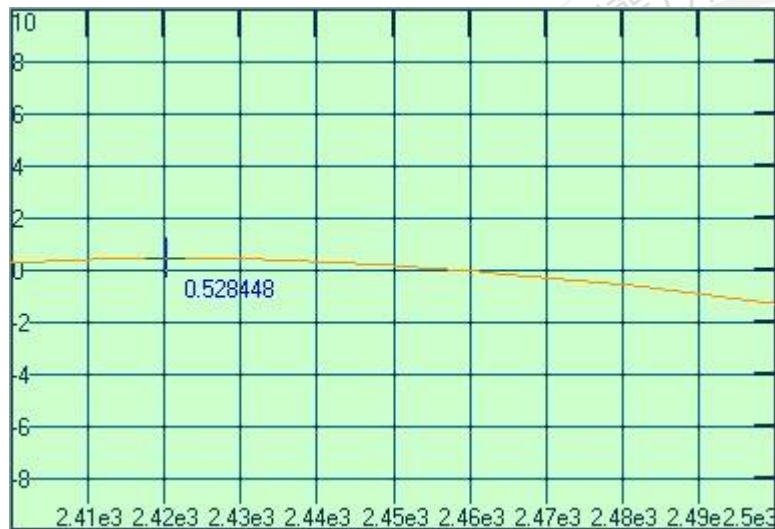
Antenna area:  
 $12 \times 4.0 \text{ mm}$

## 2. Antenna Characteristics



## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain



Maximum Peak Gain at 2420 MHz : 0.52 dBi



Maximum Efficiency at 2420 MHz : 30.7 %

## 2. Antenna Characteristics

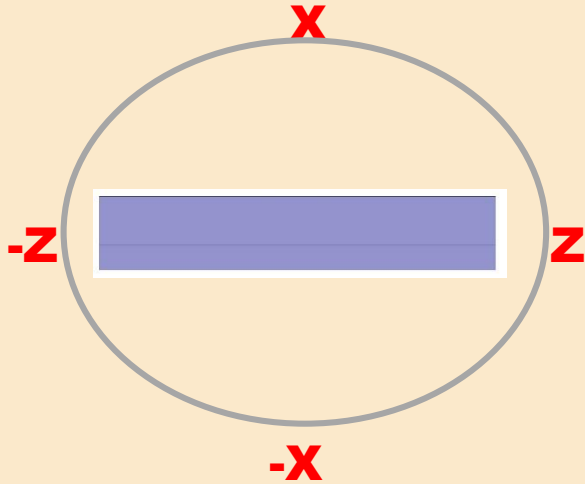
### 2.2 Antenna Efficiency and Peak Gain

Frequency(MHz)	Efficiency(%)	Peak gain(dBi)
2400	28.7	-1.63
2450	29.2	-1.34
2500	21.4	-2.66

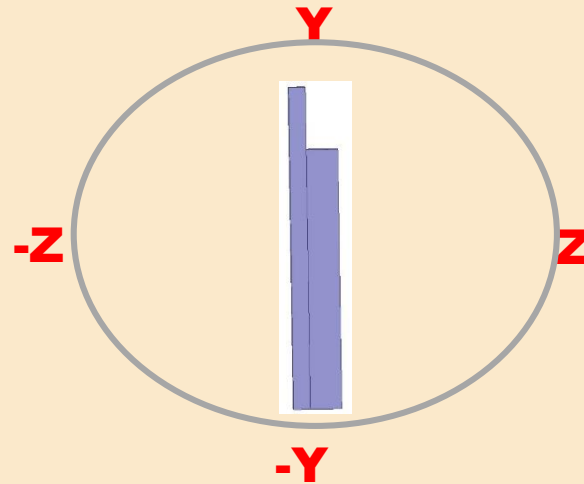
## 2. Antenna Characteristics

### 2.3 3 views of antenna

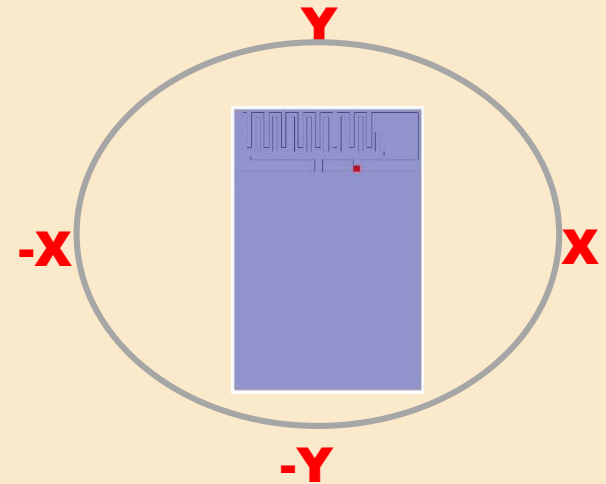
X-Z plane



Y-Z plane

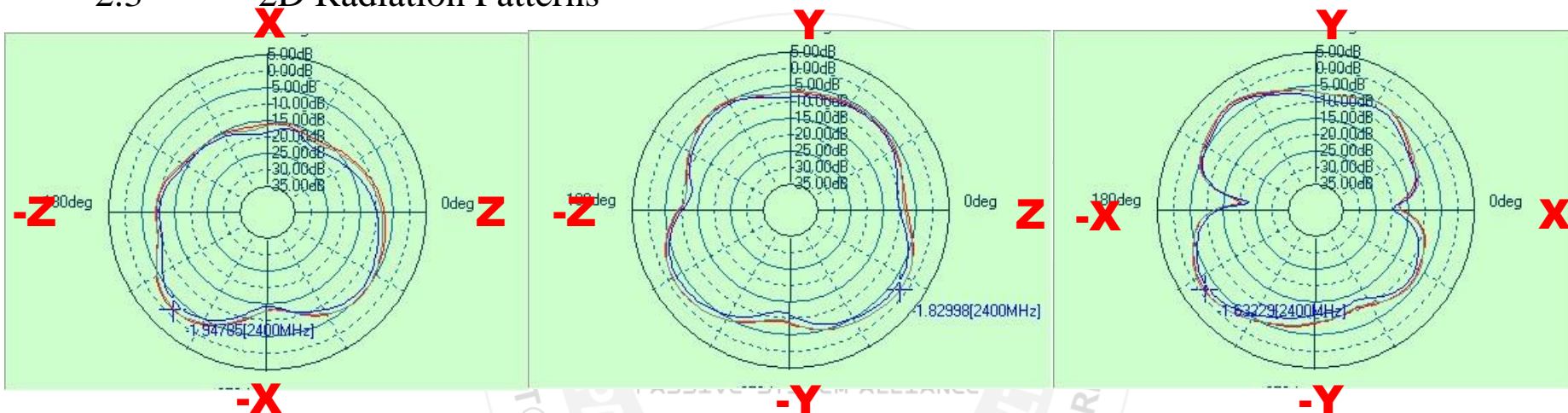


X-Y plane



## 2. Antenna Characteristics

### 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	-1.95	-8.26	-1.83	-5.42	-1.63	-6.19
2450	-2.33	-8.53	-1.84	-5.34	-1.34	-6.00
2500	-3.96	-9.99	-3.17	-6.69	-2.66	-7.40

# Thank you

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