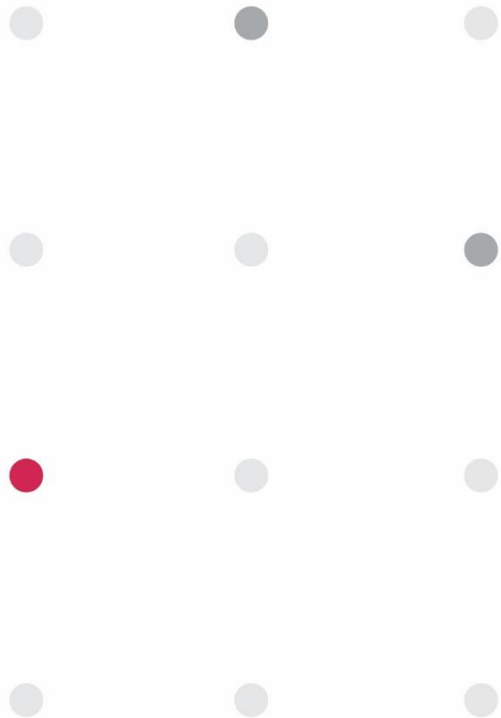


PSA

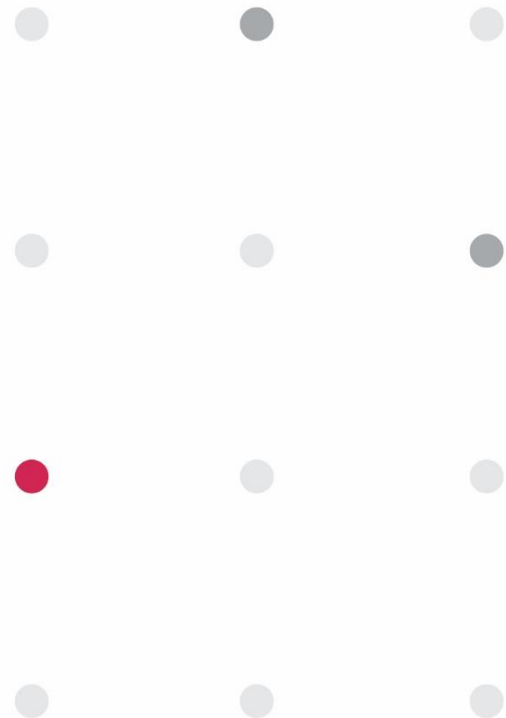
佳邦科技股份有限公司

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

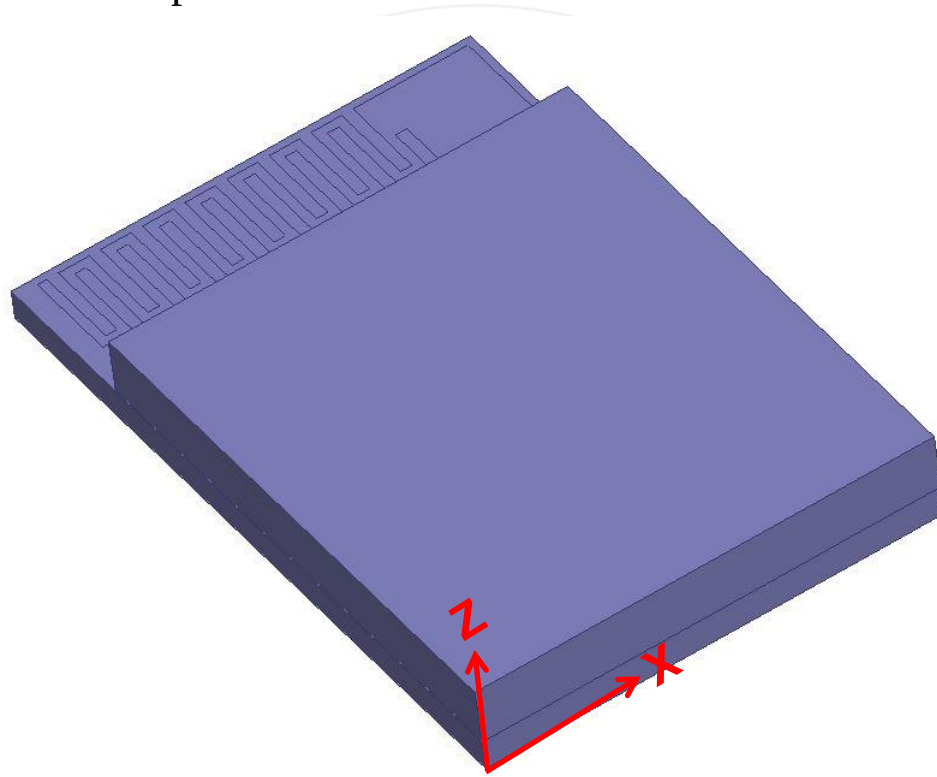
- 1.1 Experimental Setup
- 1.2 Antenna Solution Detail

2. Antenna Characteristics

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

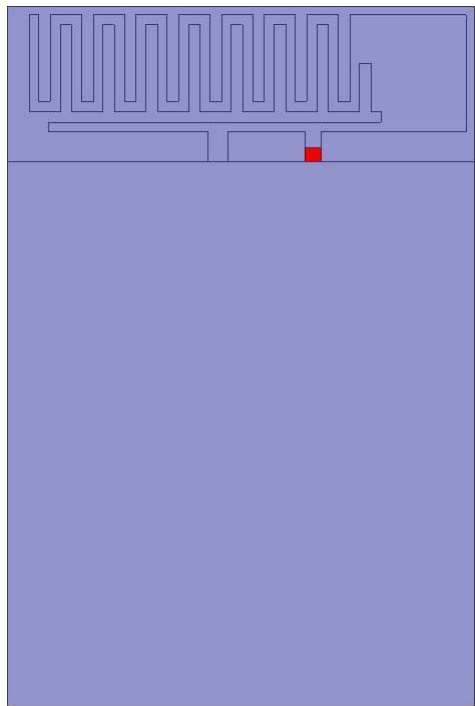
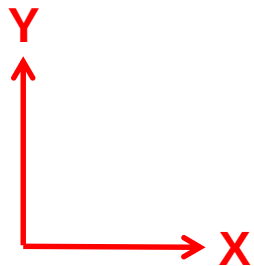
1. Measurement Information

1.1 Experimental Setup



1. Measurement Information

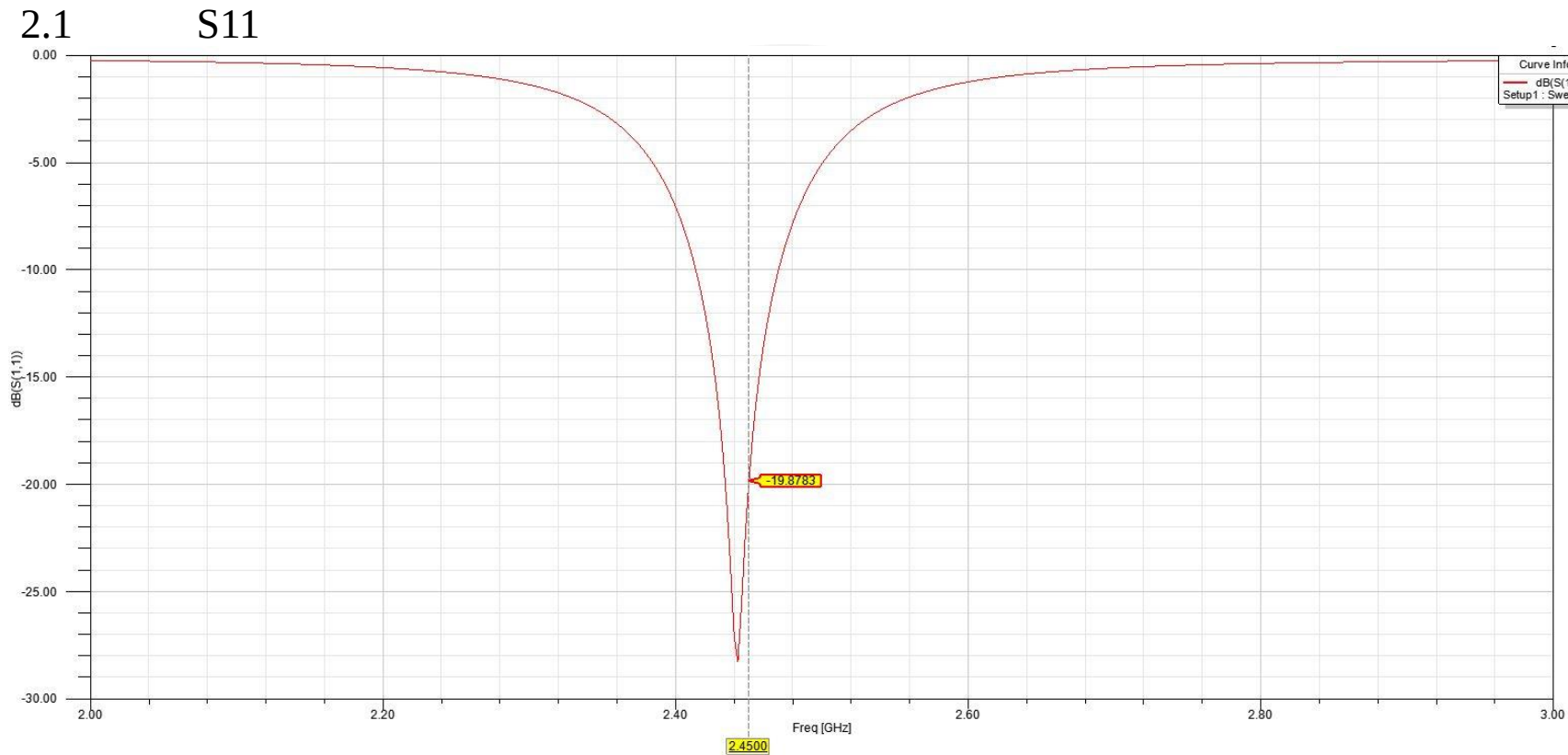
1.2 Antenna Solution Detail



Module Size :
18*12*0.8mm

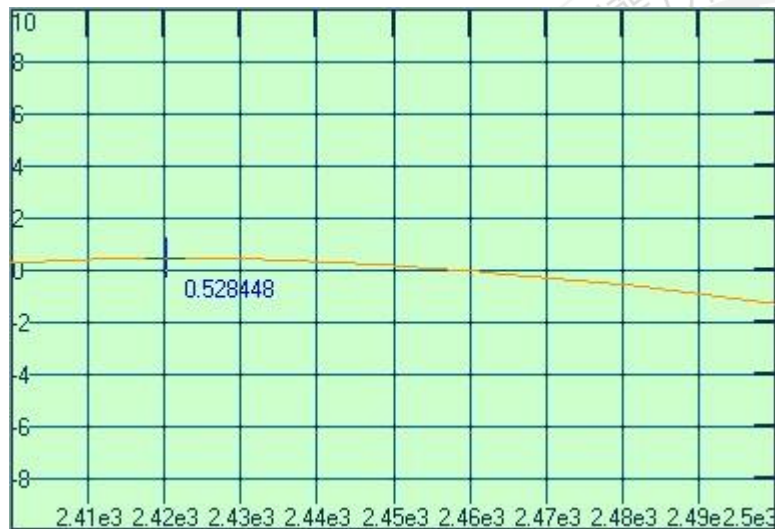
Antenna area:
12*4.0mm

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

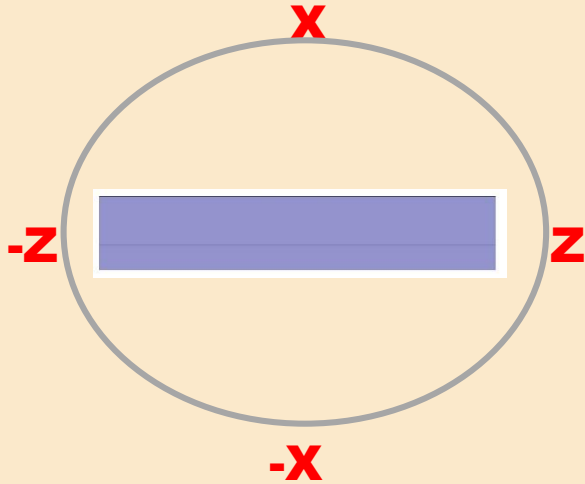
2.2 Antenna Efficiency and Peak Gain

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

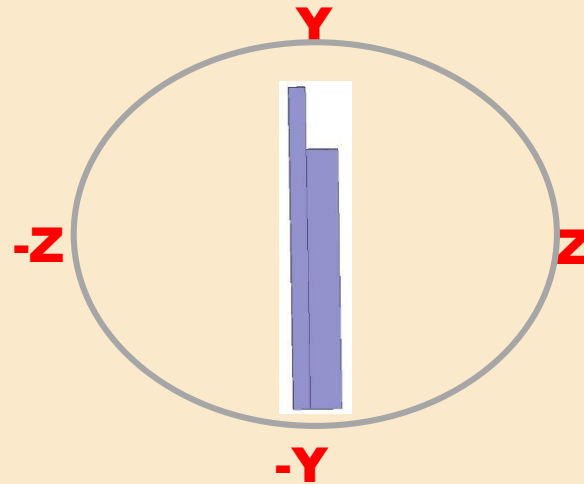
2. Antenna Characteristics

2.3 3 views of antenna

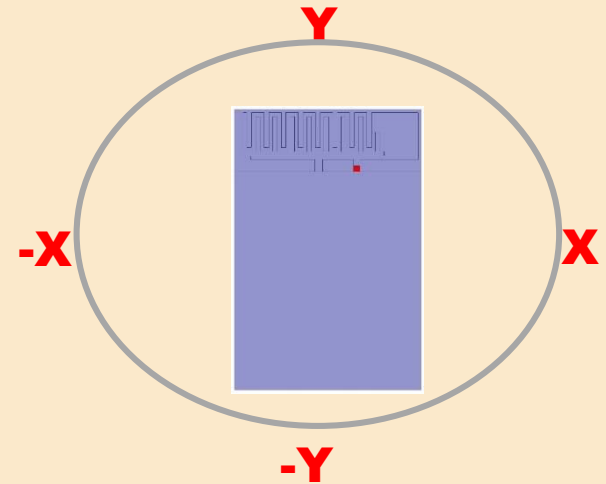
X-Z plane



Y-Z plane

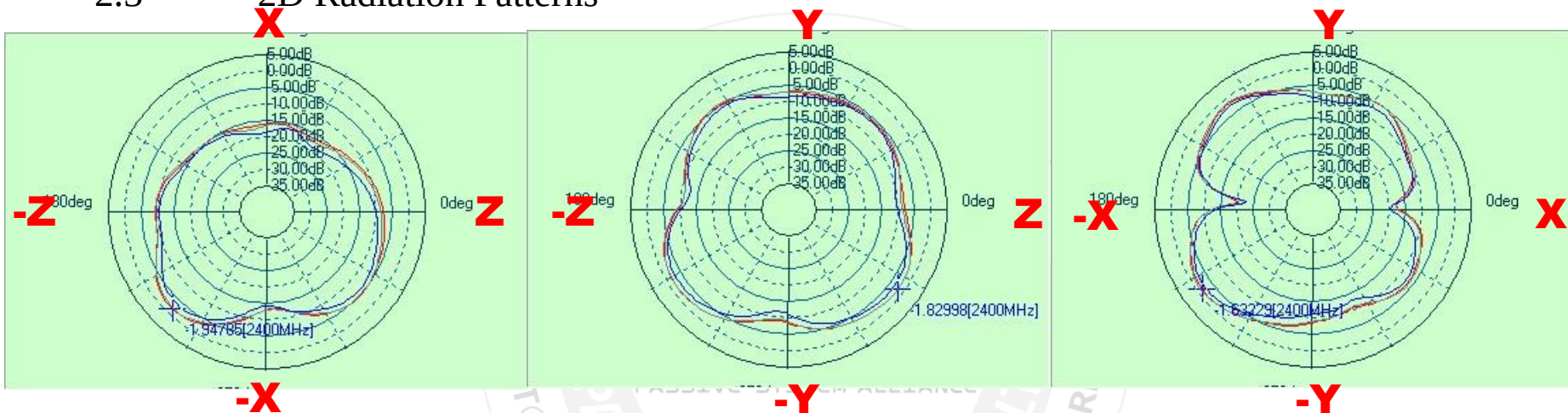


X-Y plane



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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