

PSA

PASSIVE SYSTEM ALLIANCE  
WALSIN TECHNOLOGY CORPORATION

# ailinkiot\_Module A-2.7nH

Presented by

TIAN

Walsin Technology Corporation

2019/04/02

Version	Date	Description	Author
V01	2019/04/02	New Release	TIAN

# OUTLINE

## 1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

## 2. Antenna Characteristics

2.1 Return Loss

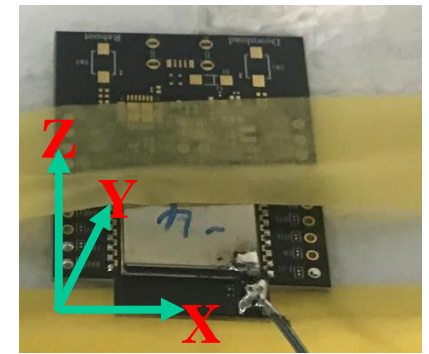
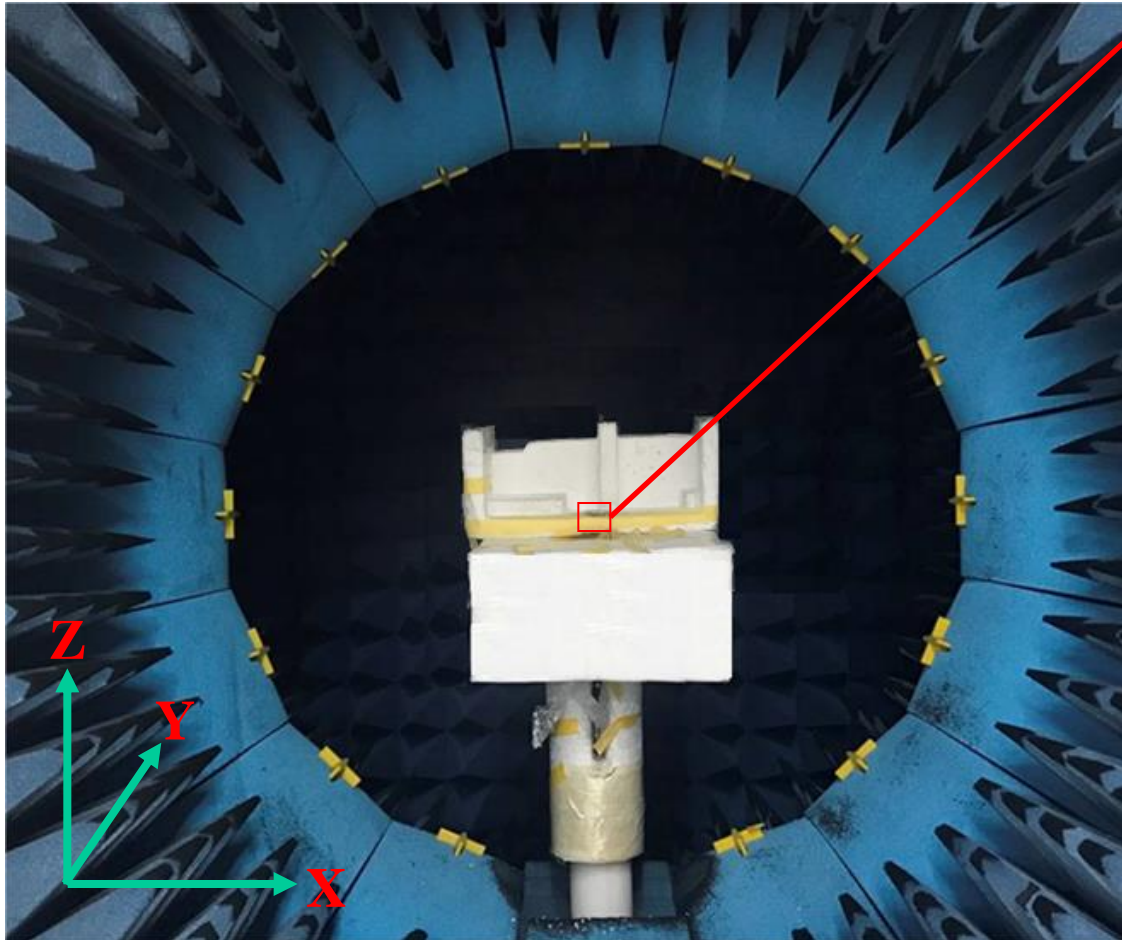
2.2 Antenna Efficiency and Peak Gain

2.3 3D Pattern & 2D Radiation Patterns

2.4 Summary Table

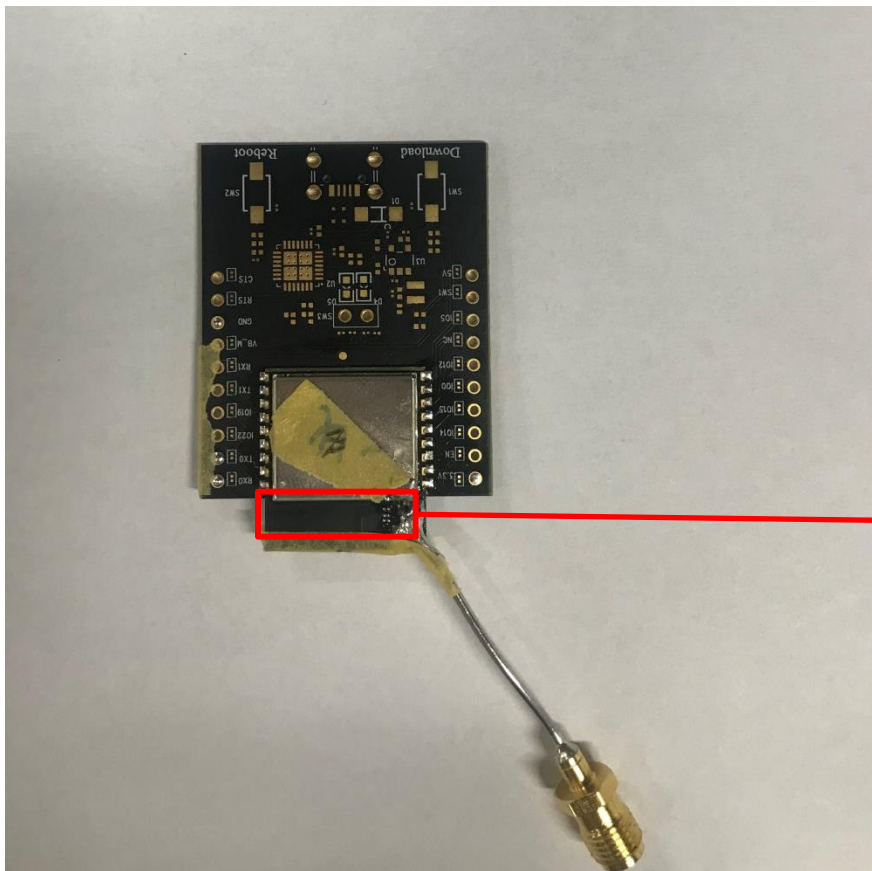
# 1. Measurement Information

## 1.1 Experimental Setup

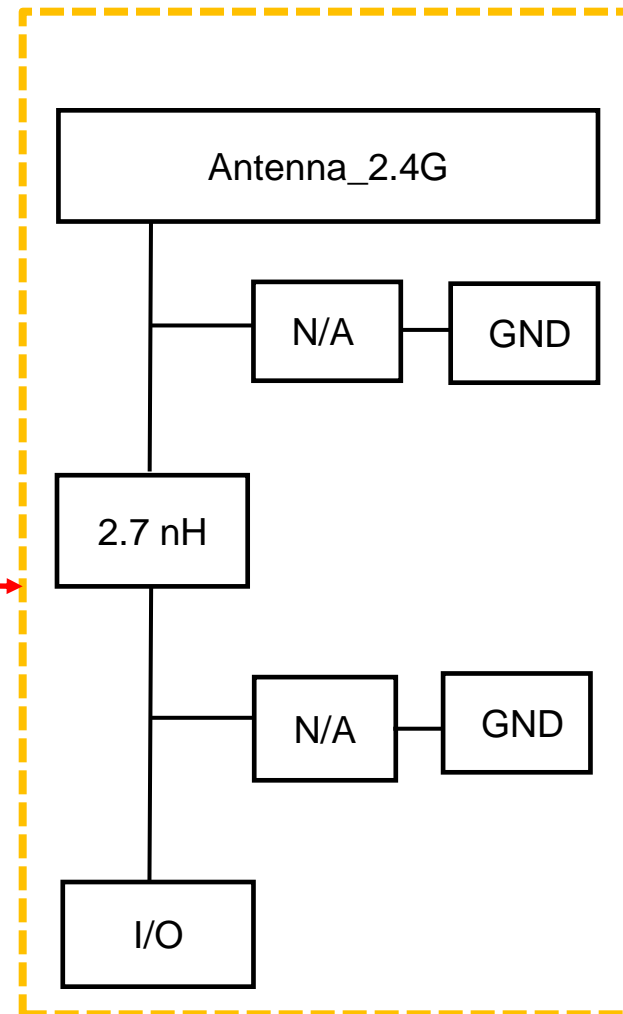


# 1. Measurement Information

## 1.2 Antenna Solution Detail

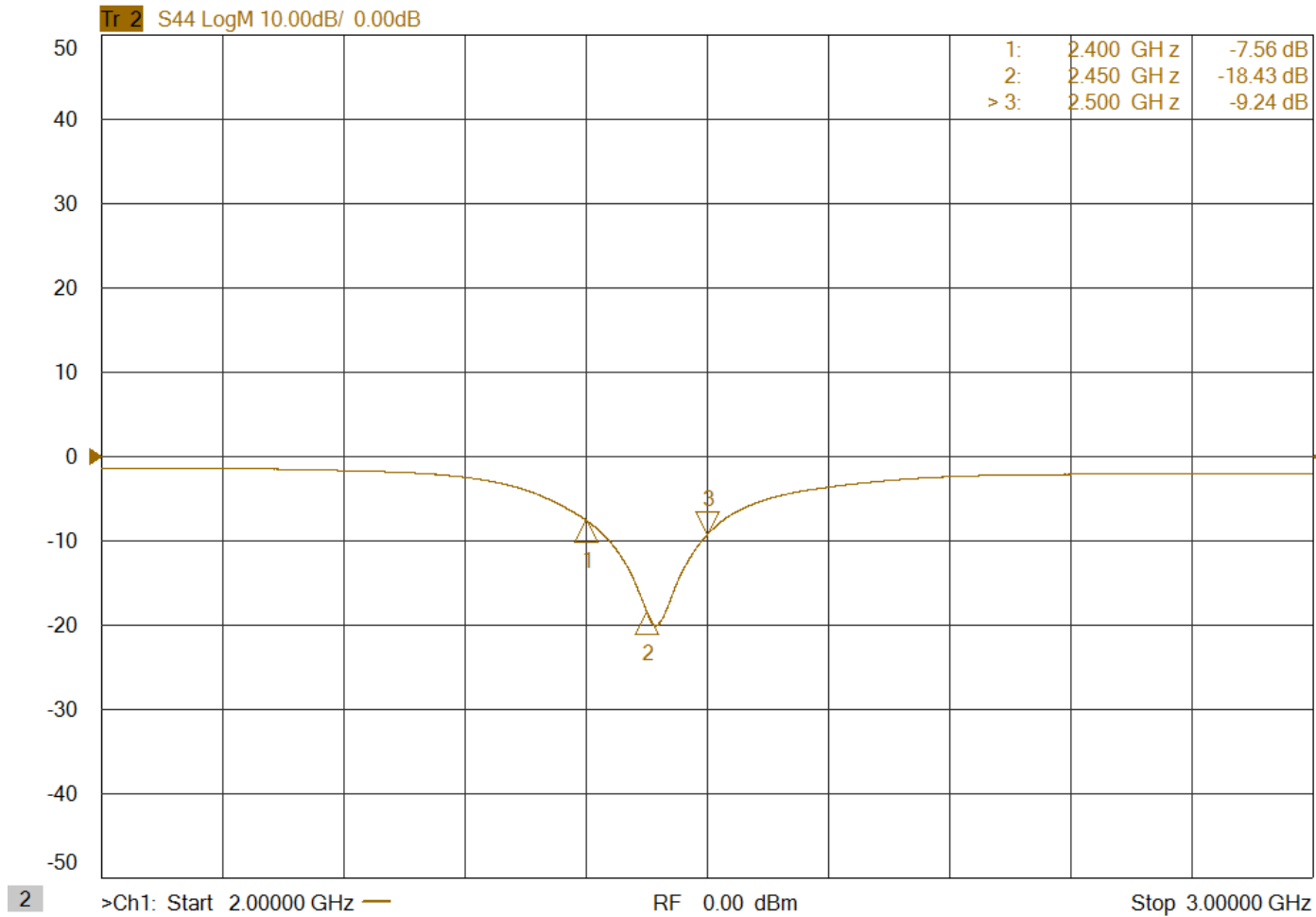


### *Matching values*



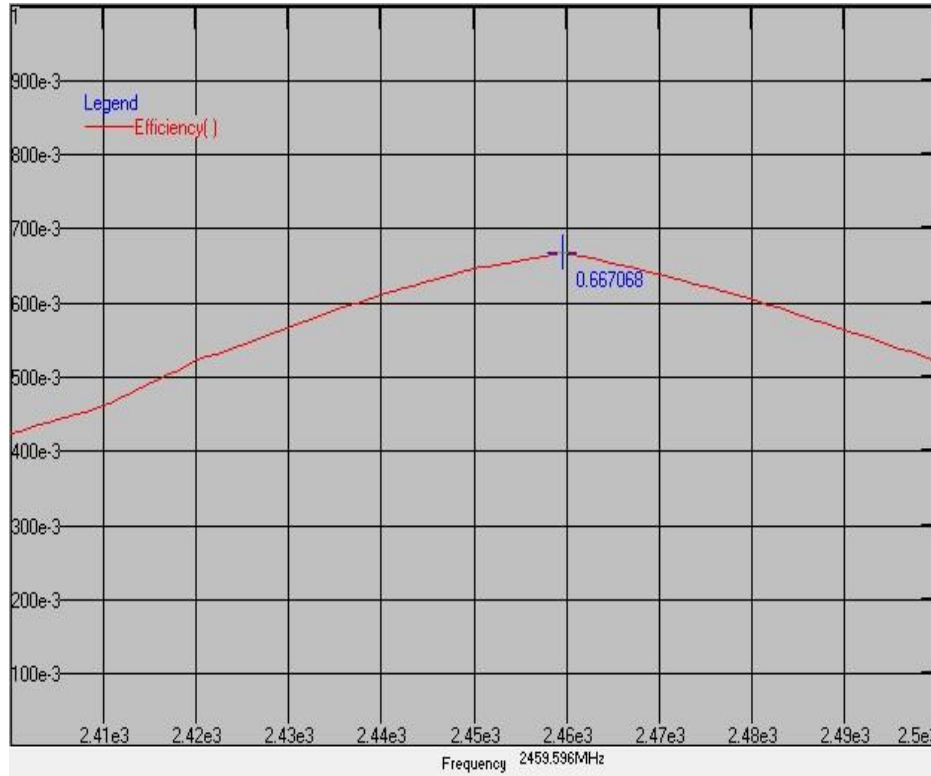
## 2. Antenna Characteristics

### 2.1 Return Loss

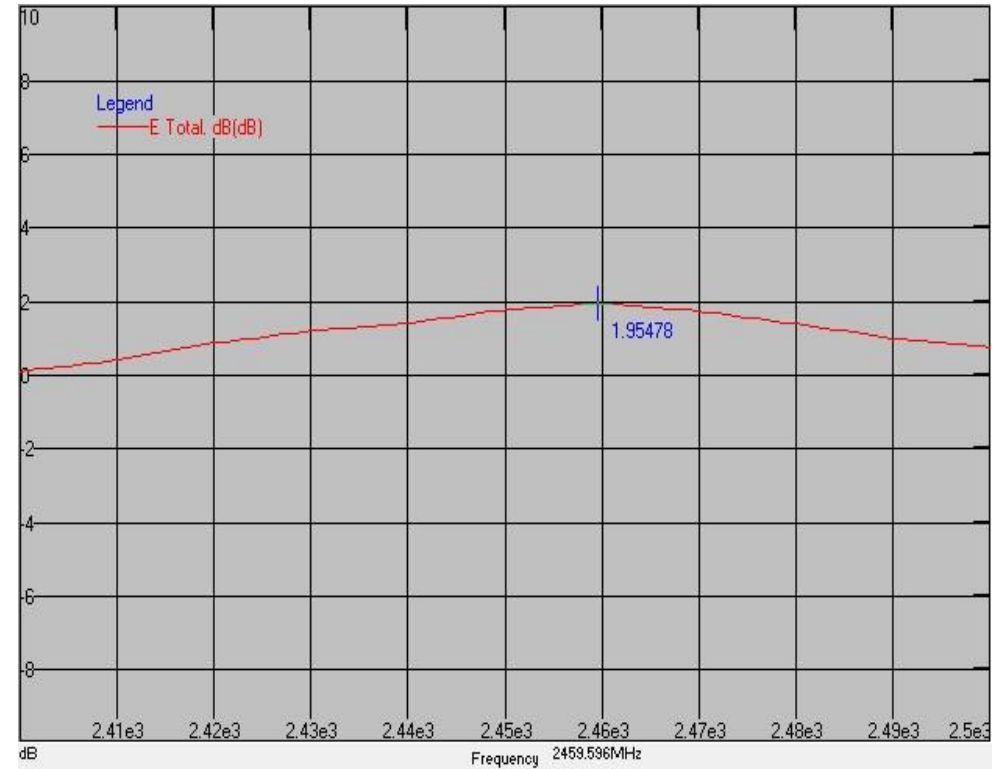


## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2459 MHz : 66.71 %

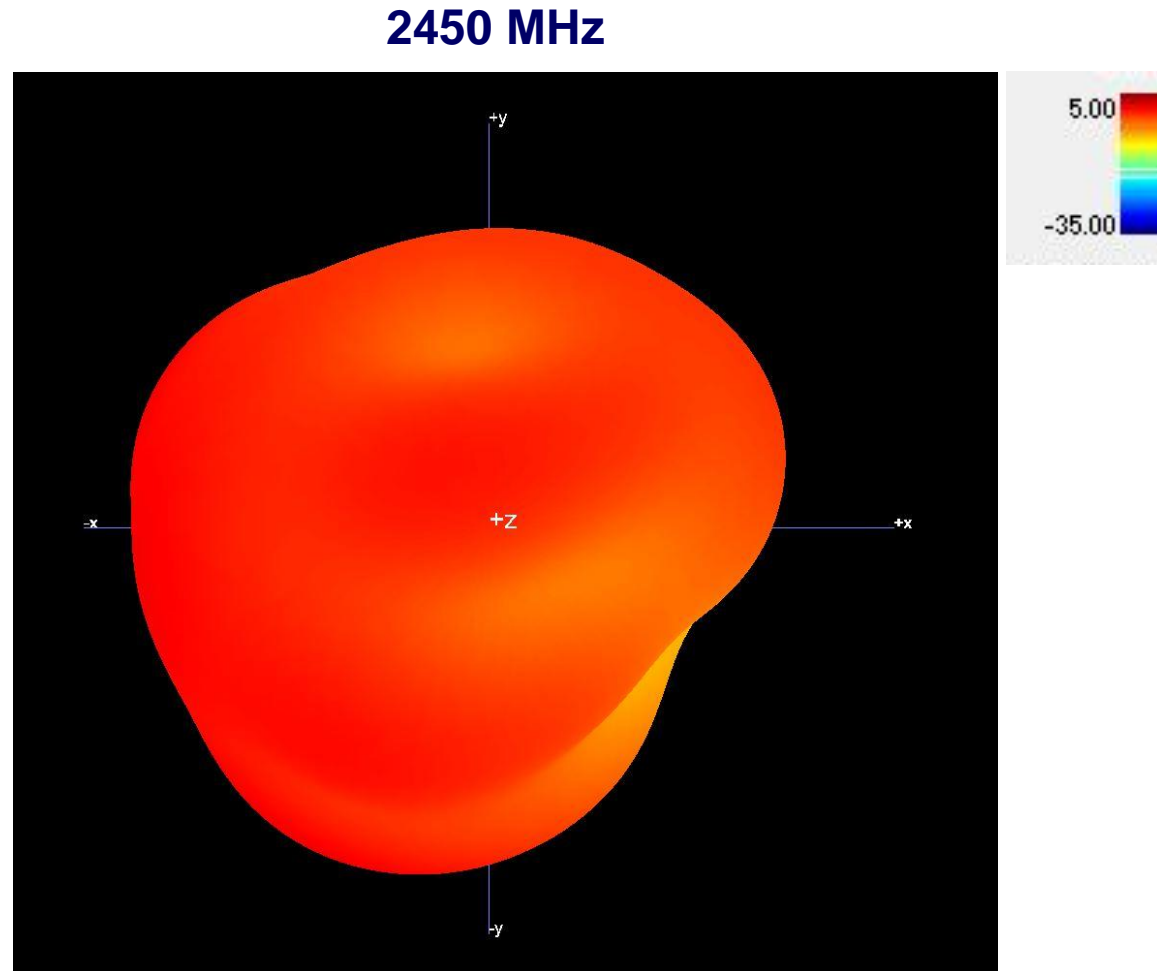


Maximum Peak Gain at 2459 MHz : 1.95 dBi



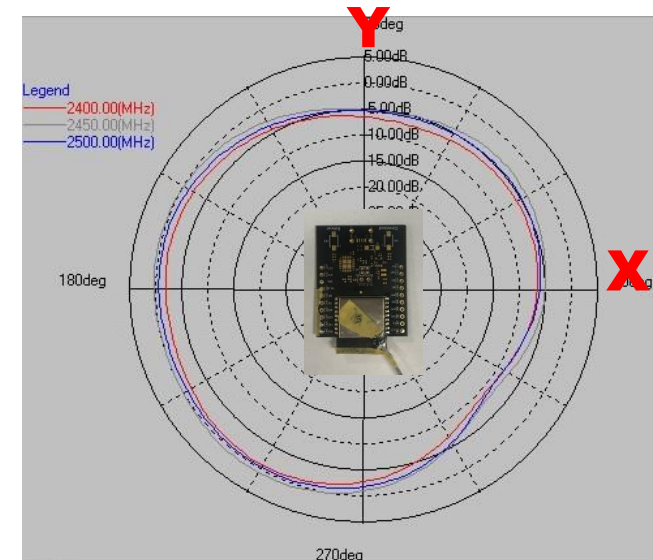
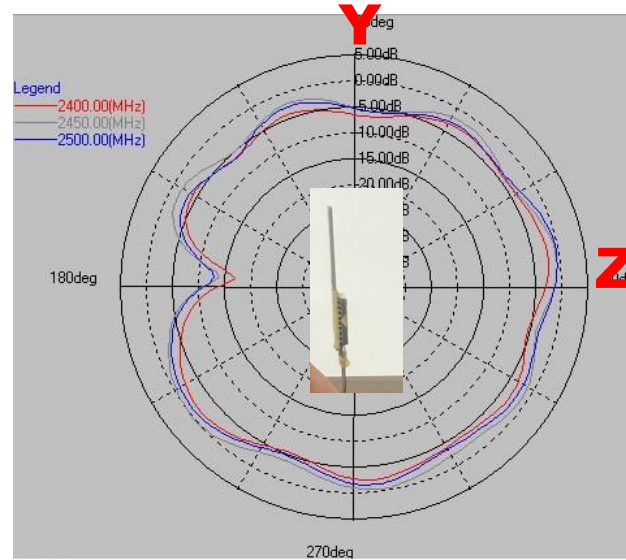
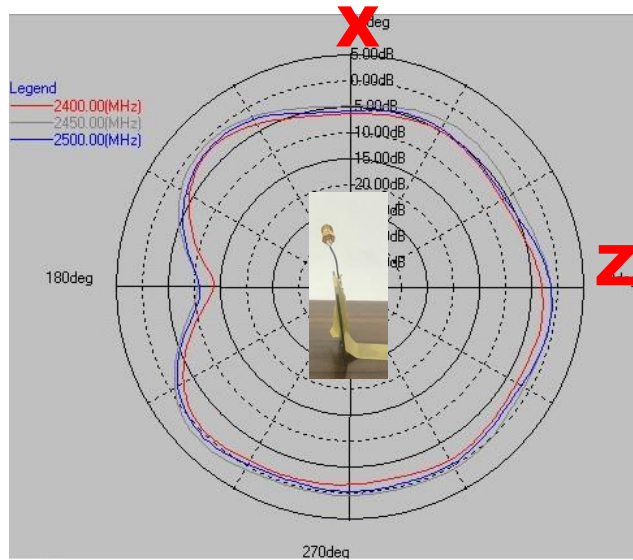
# 1. Measurement Information

## 2.3 3D Pattern



## 2. Antenna Characteristics

### 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	-0.51	-3.58	-1.92	-4.33	-0.90	-3.97
2450	1.52	-1.70	0.05	-2.60	0.72	-2.10
2500	0.50	-2.56	-0.42	-3.30	-0.43	-3.04

## 2. Antenna Characteristics

### 2.4 Summary Table

Antenna_2.4G			
Frequency(MHz)	2400	2450	2500
Peak gain(dBi)	0.11	1.79	0.76
Efficiency(%)	42.41	64.67	52.22

# Thank you

This message and any attachments are confidential and may be legally privileged. Any unauthorized review, use or distribution by anyone other than the intended recipient is strictly prohibited. If you are not the intended recipient, please immediately notify the sender, completely delete this documents, and destroy all copies. Your cooperation will be highly appreciated.