

## ACKNOWLEDGMENT SPECIFICATION FOR APPROVAL

CUSTOMER: Wuhan Guide Sensmart Tech Co., Ltd

CUSTOMER PARTNO:

SUPPLIER: Shenzhen Valueplus2 Electronic Co., Ltd

PRODUCT MODEL: ZG18

PRODUCT NAME: ZG18 BT antenna

PRODUCT CODE: M01-0601420R0A

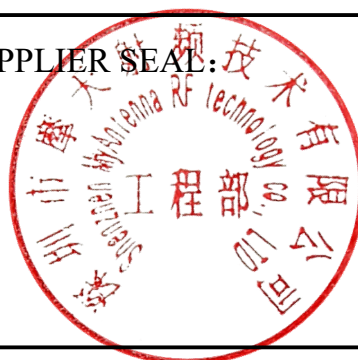
CUSTOMER SIGNATURE:

CUSTOMER SEAL:

SUPPLIER SIGNATURE:

陈建坊

SUPPLIER SEAL:



Note: Please sign back this copy as your proof of approval!

NOTE: PLEASE RETURN THIS COPY AS A CERTIFICATION OF YOUR APPROVAL

Prepared by:	Date: 2023-09-15	Add:	12th Floor, Building A, Zhongyu Green High-tech Industrial Park, Heshuikou Community, Matian Street, Guangming District,
		Tel:	0755-86503881

## PERFORMANCE PARAMETER

### 1. Electrical Characteristics

Antenna		
1	Antenna model	omni antenna
2	Frequency	2400-2500Hz
3	V. S. W. R	≤3.0
4	Peak Gain	-4.17
5	Peak Efficiency	11.18%
6	Impedence	50 Ω
7	Polarization	linear polarization

### 2. Material

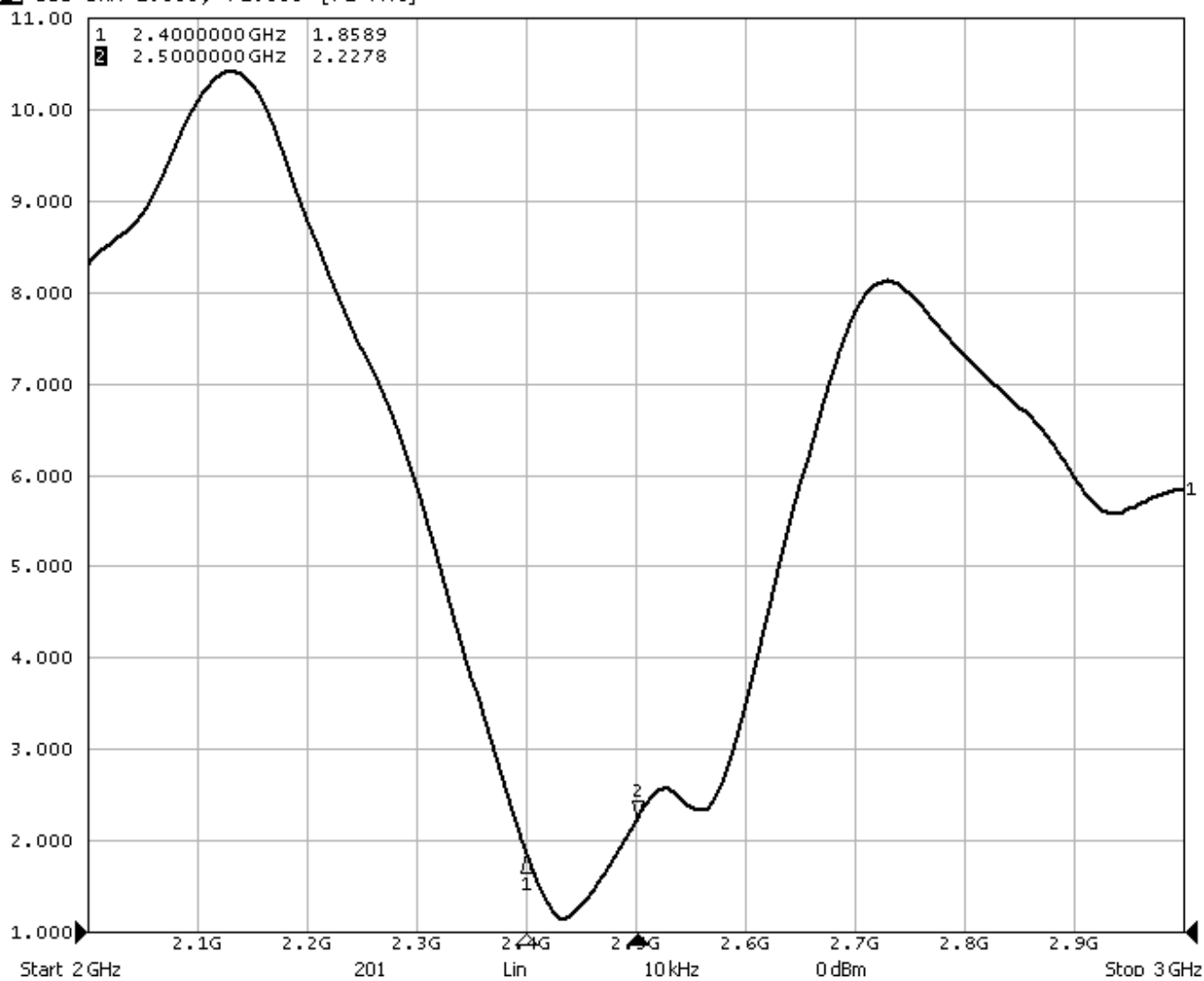
No	Part Name	
1	FPC	black FPC
2	RF Cable	black Φ1.13
3	RF Connector	golden Ipex 1

## TESTING CURVE

### 1. Performance test

#### 1.1 V.S.W.R

Tr1 S22 SWR 1.000 / 1.000 [F1 Pxt]



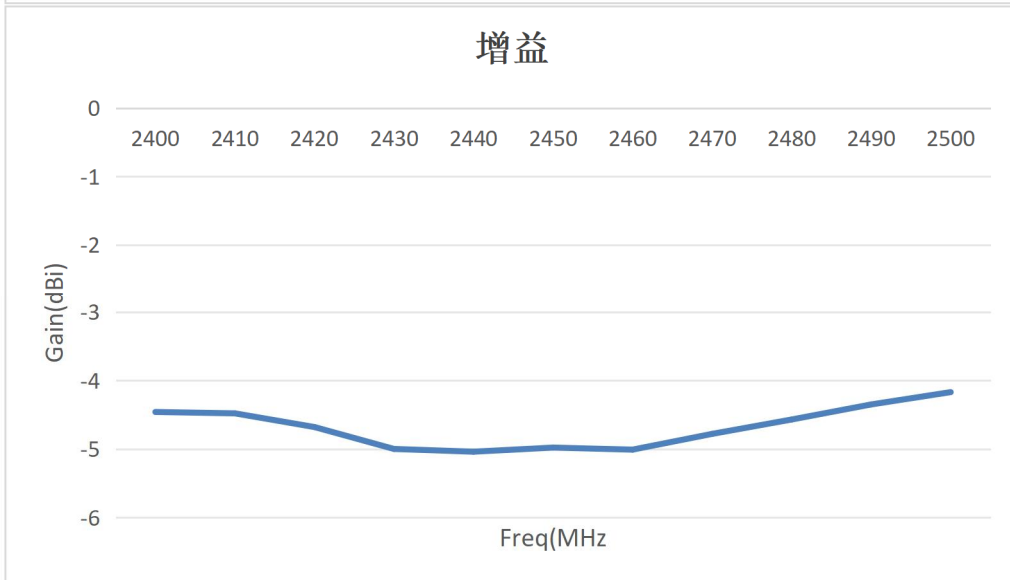
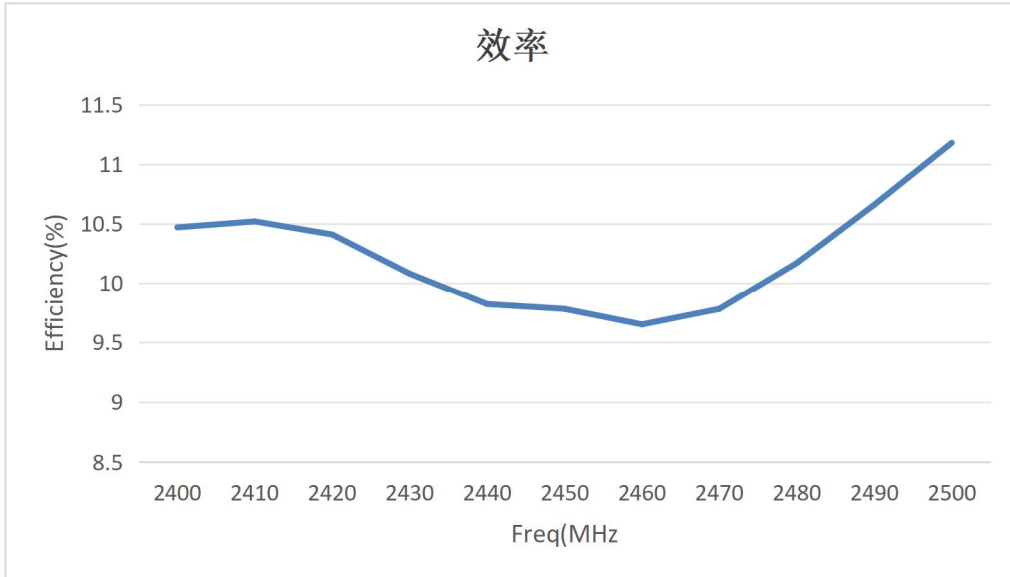
#### Data list

Freq	2.4GHz	2.5GHz
VSWR	1.85	2.22

## TESTING CURVE

### 2. Passive testing

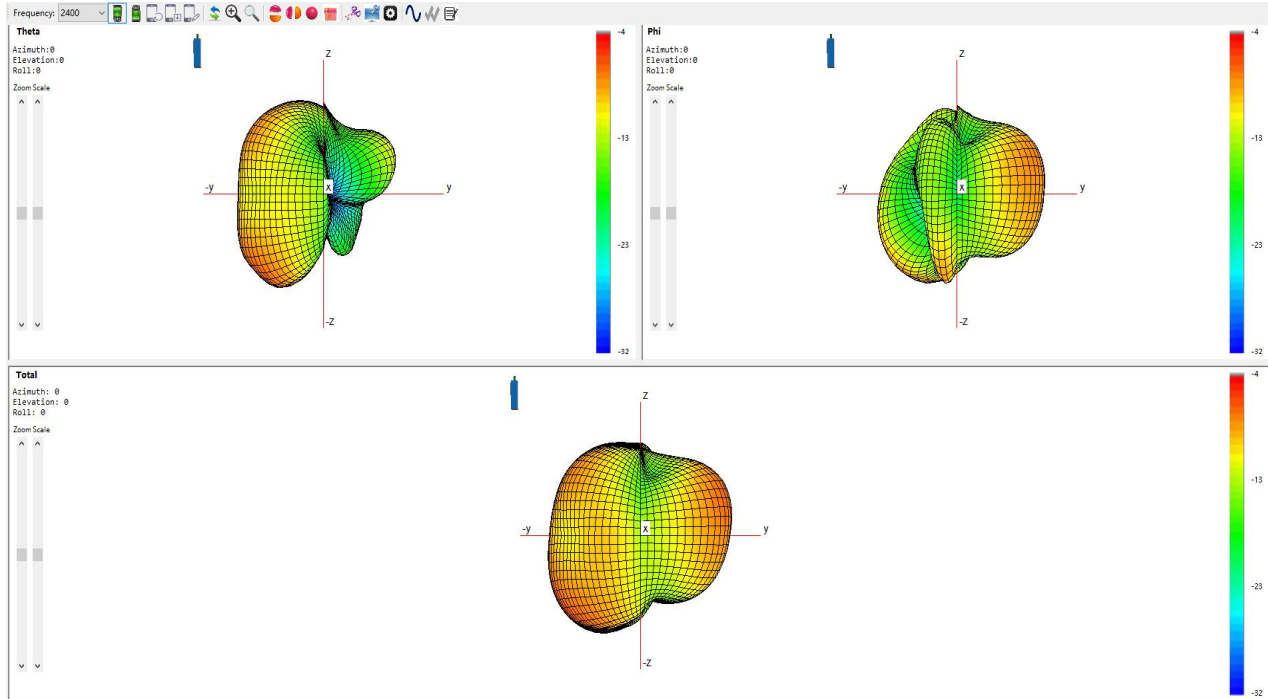
#### 2.1 Efficiency and Gain



Freq (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-4.46	-4.48	-4.68	-5.00	-5.04	-4.98	-5.01	-4.78	-4.57	-4.35	-4.17
Efficiency (%)	10.47	10.52	10.41	10.08	9.82	9.78	9.65	9.78	10.17	10.66	11.18

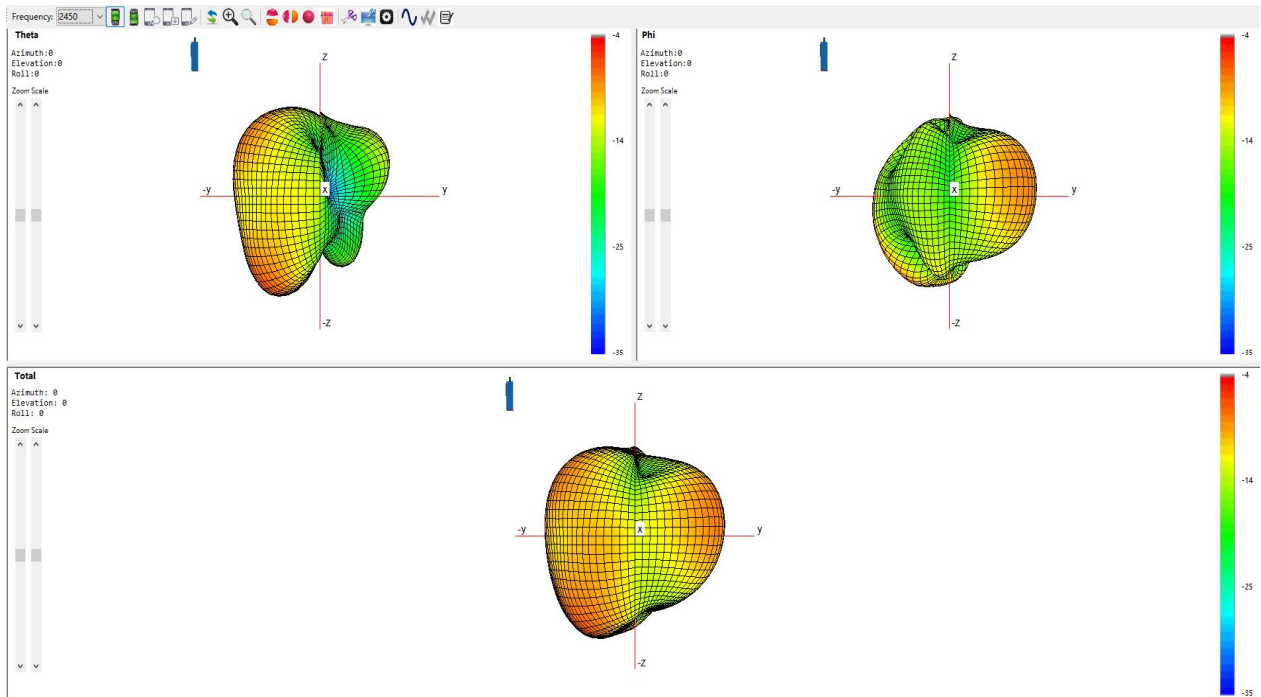
## TESTING CURVE

### 2.2 3D picture 3D Map



2400MHz

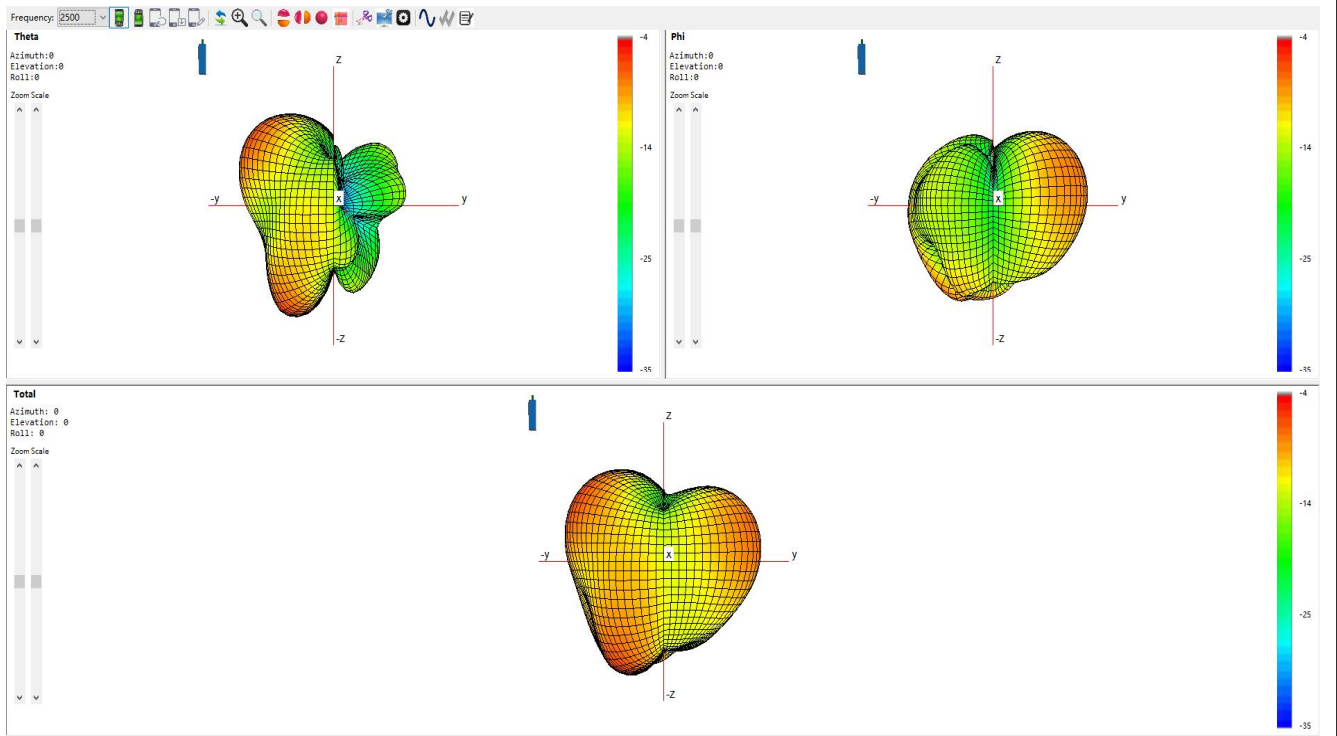
Gain=-4.46dBi



2450MHz

Gain=-4.98dBi

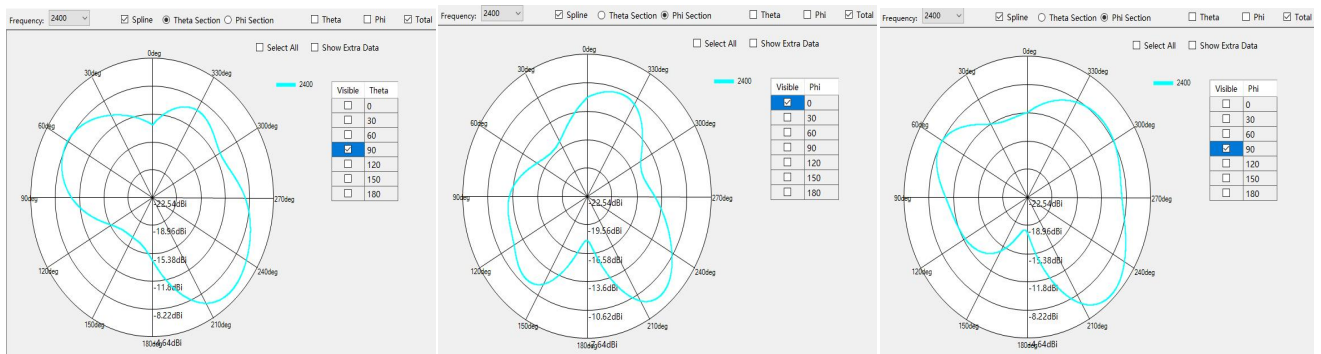
## TESTING CURVE



2500MHz

Gain=-4.17dBi

### 2.3 2D picture 2D Figure



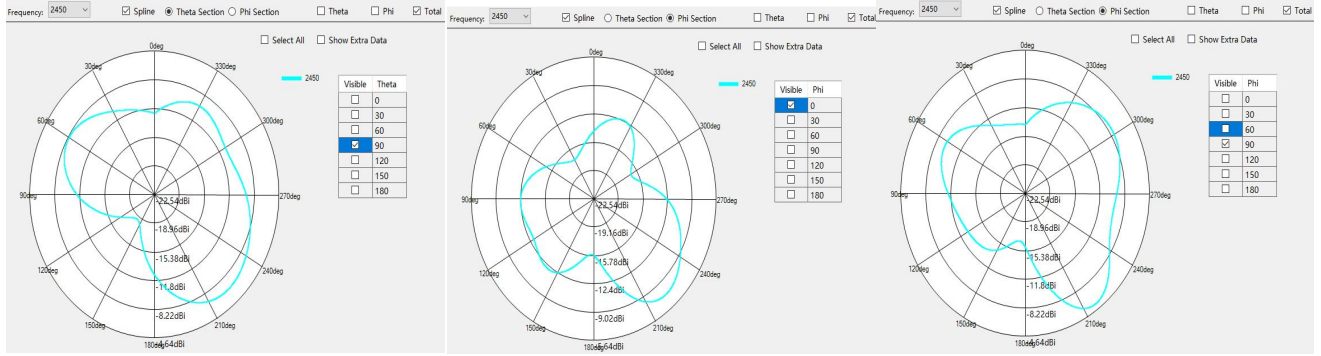
H picture

E1 picture

E2 picture

2400MHz

Gain=-4.46dBi



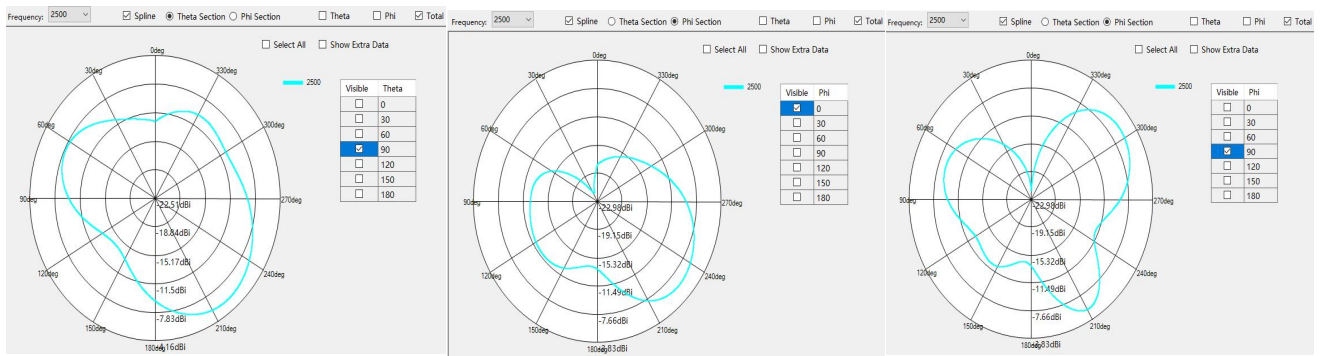
H picture

E1 picture

E2 picture

2450MHz

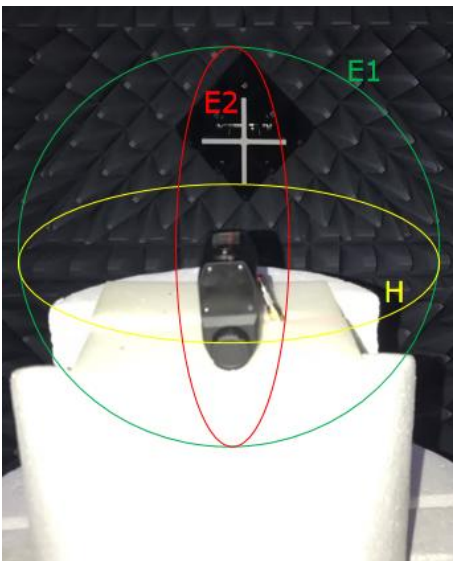
Gain=-4.98dBi



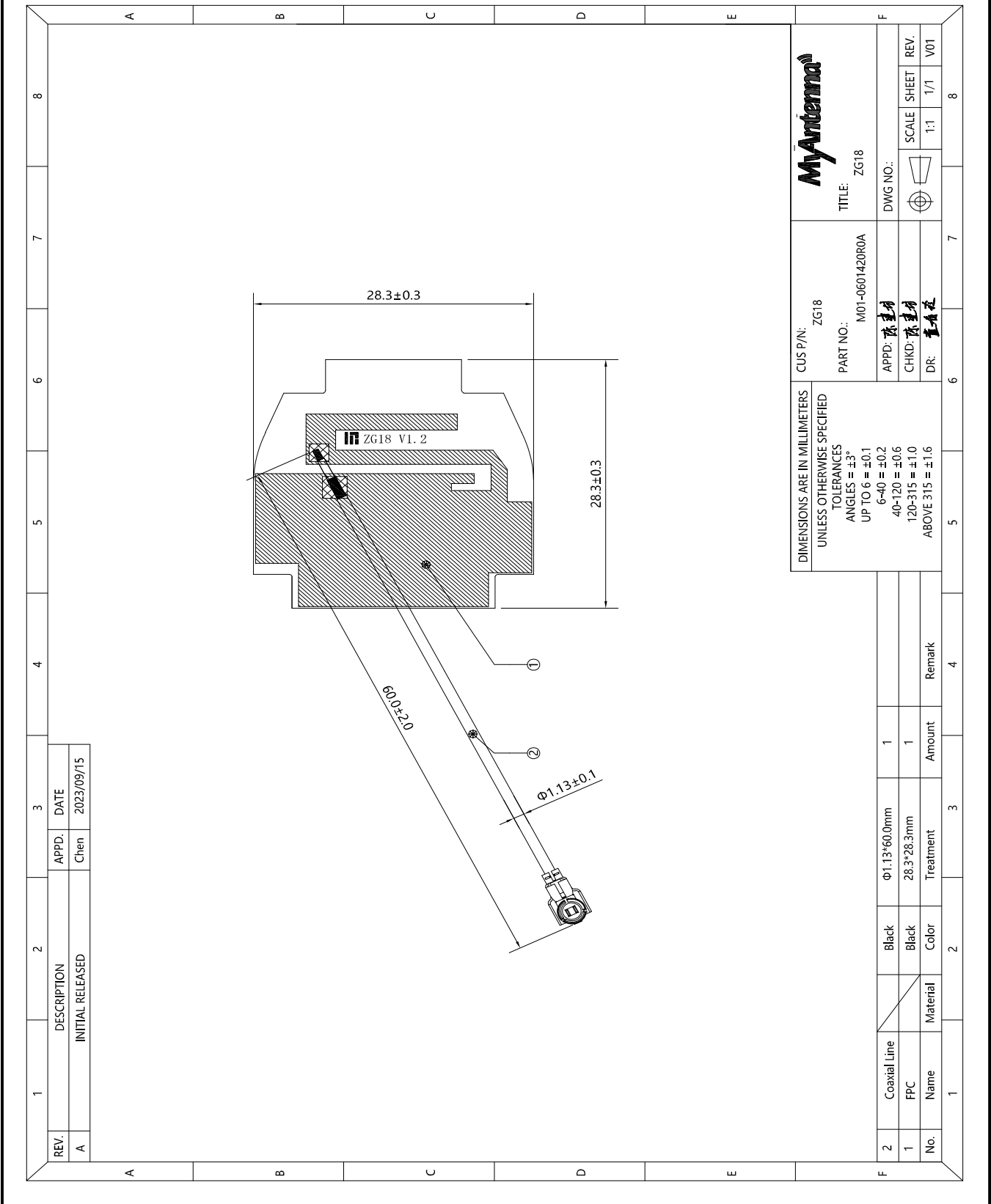
2500MHz

Gain=-4.17dBi

## 2.4 Darkroom test coordinate diagram



# SCHEDULE DRAWING



REV.	DESCRIPTION	APPD.	DATE
A	INITIAL RELEASED	Chen	2023/09/15



CUS P/N:	ZG18
PART NO.:	M01-0601420R0A
APPD:	陈建明
CHKD:	陈建明
DR:	曾明波
TITLE:	ZG18
DWG NO.:	
SCALE:	1:1
SHEET:	1/1
REV.:	V01

DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SPECIFIED  
TOLERANCES  
ANGLES = ±3°  
UP TO 6 = ±0.1  
6-40 = ±0.2  
40-120 = ±0.6  
120-315 = ±1.0  
ABOVE 315 = ±1.6

No.	Name	Material	Color	Treatment	Amount	Remark
2	Coaxial Line		Black		1	
1	FPC		Black		1	