



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date	2023/12/01
File No	23120101
Revision	1.0

CUSTOMER: 普渡

CUSTOMER NO: 梯控

PART NAME: 2.4GHz 5dBi Antenna

SUPPLIER NO: YJA01.018.013.101A

Date:

Sample quantity Q'TY:

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: Yuanfu Industrial Zone, No. 59, Muyu Road, Shatou Community, Chang'an Town, Dongguan City

Tel:0769-82586086 Fax:0769-82586086



Acknowledgement Item List

NO ·	(Contents)	(Number of Page)	(Page Code)
1	(Spec Cover))	1	1
2	(Spec Item)	1	2
3	(Drawing)	1	3
4	(Antenna Specification)	1	4
5	(S Parameter)	1	5
6	(Passive Test)	3	6 ~ 8
7	(Radiation Pattern)	2	9 ~ 10
8	(Antenna Profile)	2	11 ~ 12
9	(Material Certificate)	22	13 ~ 34
10	(RoHS Test Report)	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

RoHS

Compatible

CUSTOMER

PART NO

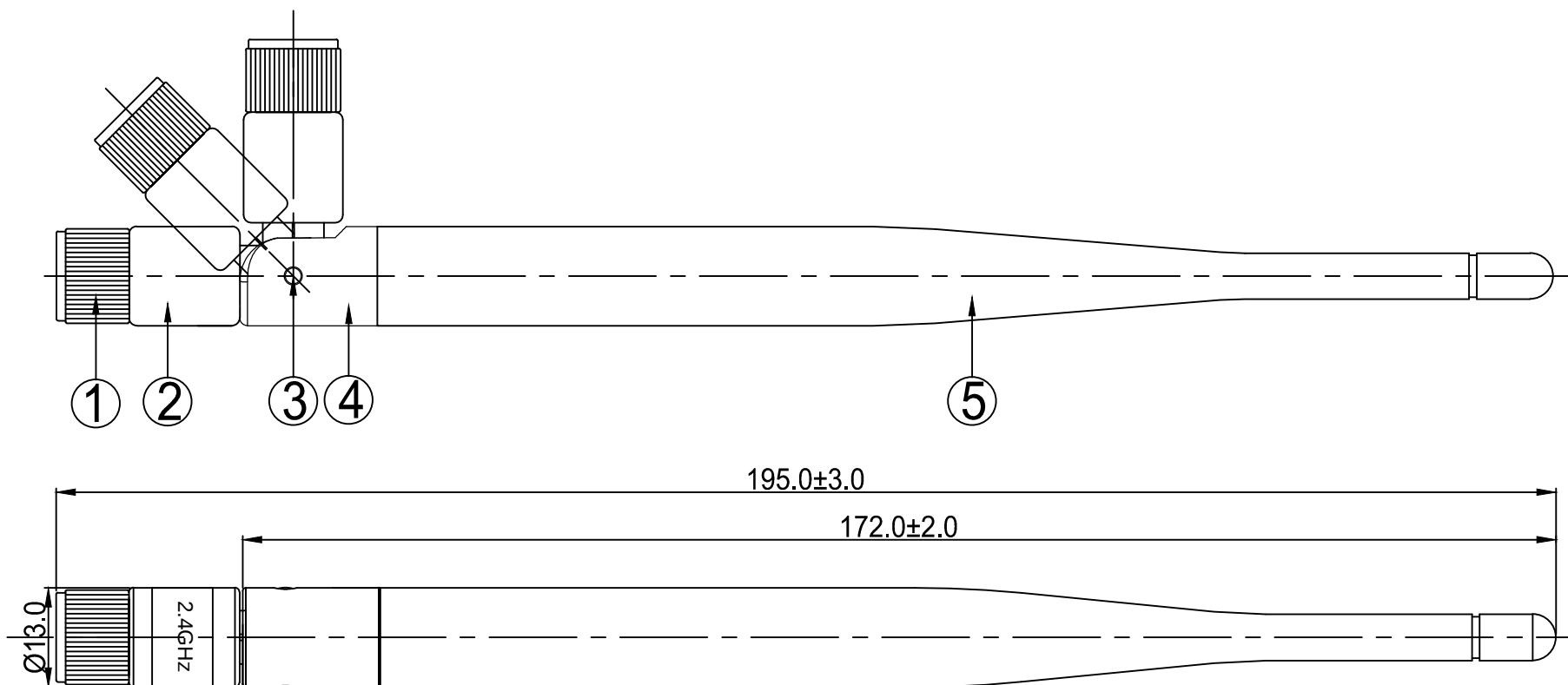
REV.

DESCRIPTION

DATE

A

2023-11-23



5	Antenna Cap	TPE ,Color:Black	1
4	Upper Base	PC, Color:Black	1
3	Rivet	POM, Color:Black	2
2	Bottom Base	PC, Color:Black	1
1	SMA Male	POM Black	1
NO	PART NAME	DESCRIPTION	Q.TY



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PART NAME: 2.4GHz 5dBi Antenna

PART NO.: YJA01.018.013.101A

DATE: 2023-11-23

APPROVED BY

CHECKED BY

DESIDNED BY

Tolerance

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ±0.50

X.XX±0.15

X° ±3°



Antenna Specification

Electrical Properties

Frequency	2.412-2.584GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.3 dBi
Radiation	Omni-directional
Polarization	Linear

Physical Properties

Connector	SMA Male
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

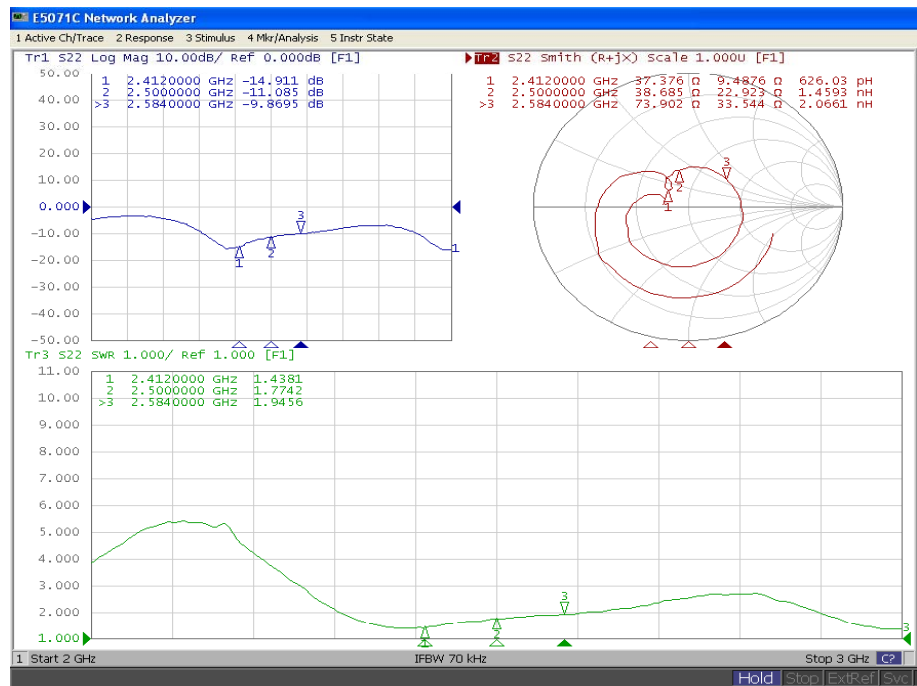
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Antenna Performance Test

**Agilent
E5071C
S22
Parameter
Test //
WiFi
Antenna**





Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2412	67.6	-1.7	4.3
2420	65.2	-1.9	4.1
2428	64.9	-1.9	4.1
2436	64.7	-1.9	4.1
2444	65.0	-1.9	4.2
2452	65.0	-1.9	4.1
2460	63.1	-2.0	3.9
2468	65.0	-1.9	4.1
2476	66.4	-1.8	4.2
2484	64.0	-1.9	4.1
2492	63.5	-2.0	4.1

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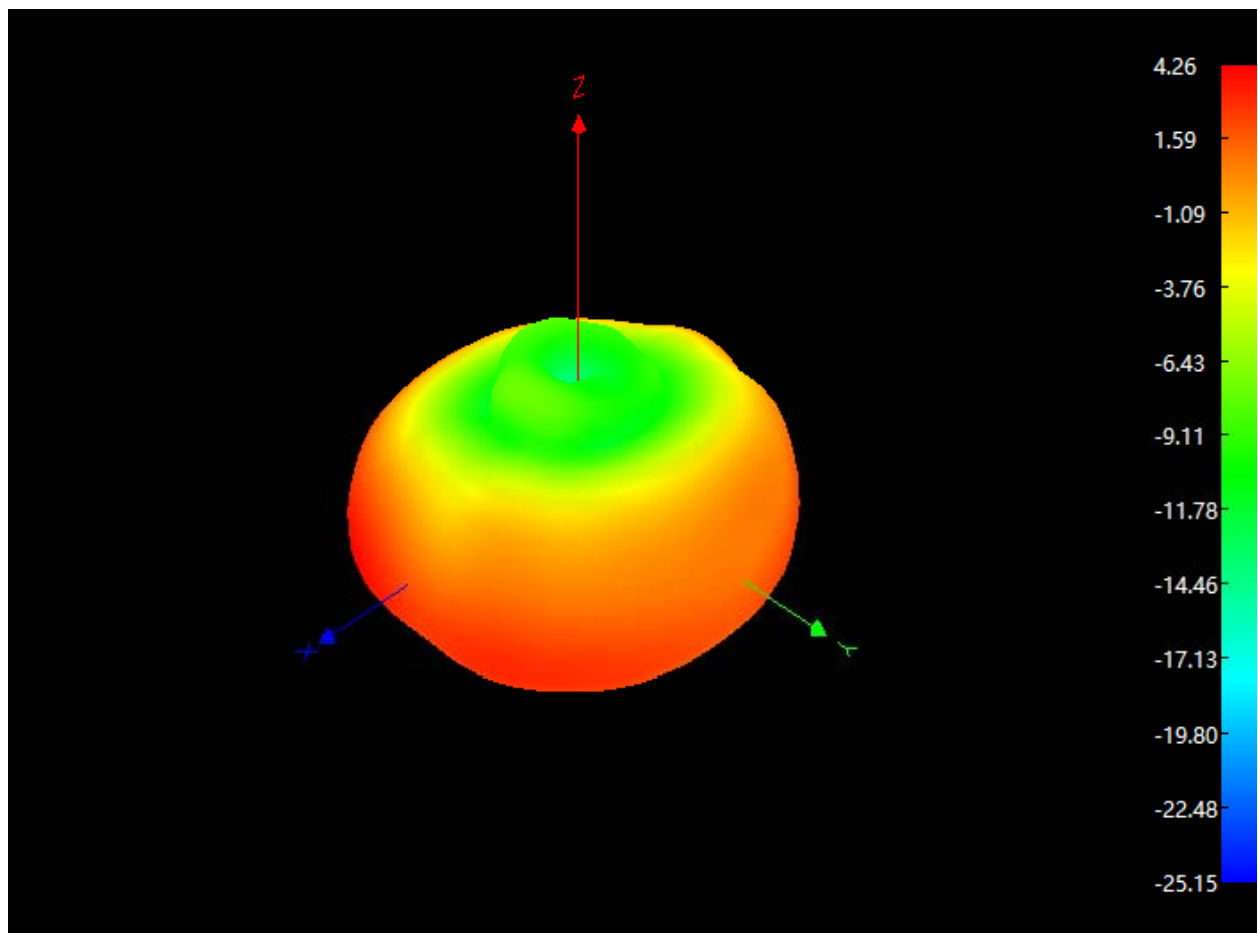
Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2500	60.5	-2.2	3.8
2508	60.3	-2.2	3.8
2516	59.0	-2.3	3.7
2524	57.8	-2.4	3.6
2532	57.9	-2.4	3.6
2540	57.5	-2.4	3.6
2548	60.1	-2.2	3.8
2556	60.0	-2.2	3.7
2564	57.7	-2.4	3.7
2572	57.7	-2.4	3.8
2580	57.4	-2.4	3.9

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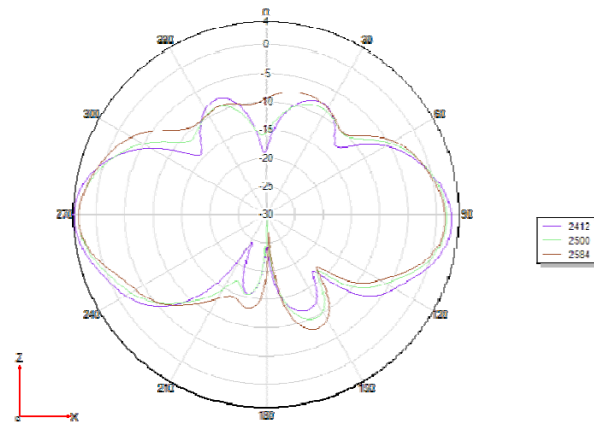
Radiation Pattern For WiFi Antenna



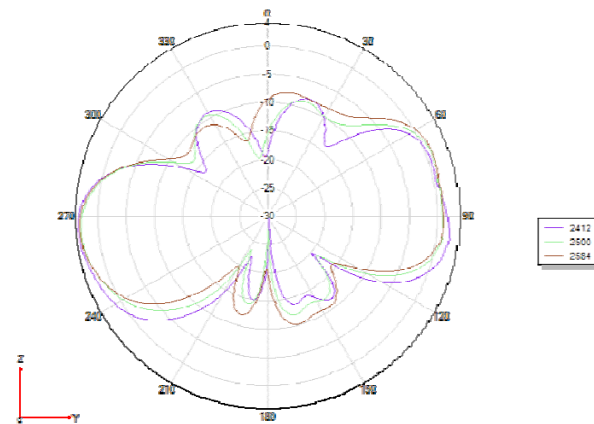


Radiation Pattern For WiFi Antenna

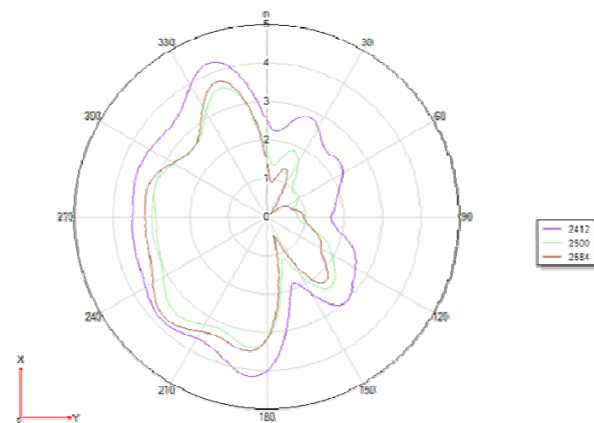
Phi 0°



Phi 90°



Theta 90°



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