

SPECIFICATION FOR APPROVAL

Date 2024/12/27
File No 24122701
Revision 1.0

CUSTOMER: Boolean Cloud (Jiangsu) Technology Co., Ltd.
CUSTOMER NO:
PART NAME: WIFI Antenna
SUPPLIER NO: YJH01.100.002.301A
MANUFACTURER: DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY Co.,LTD
ADDRESS: No. 59, Muyu Road, Shatou Community, Chang 'an Town, Dongguan City

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingyi

List of Acknowledgement Items

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RoHS

Compatible

CUSTOMER

PART NO

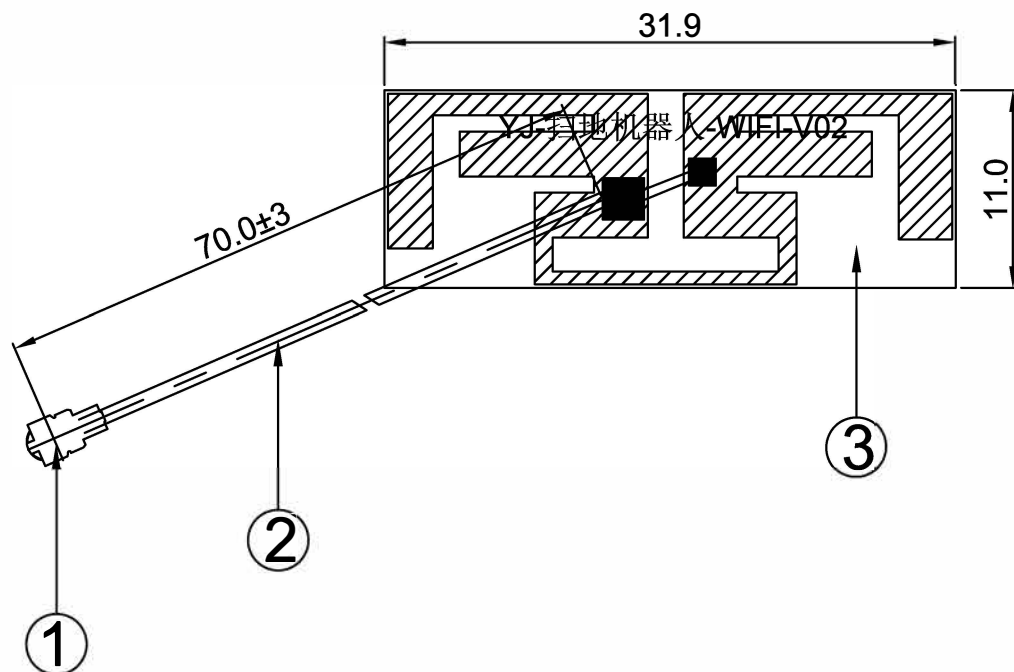
REV.

DESCRIPTION

DATE



2024-12-27



东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: WIFI Antenna

PART NO.: YJH01.100.002.301A

DATE: 2024-12-27

APPROVED BY

CHECKED BY

DESIGNED BY



UNITS: mm

SCALE: 1/1

REVISION: A

Tolerance

X.X ±0.50

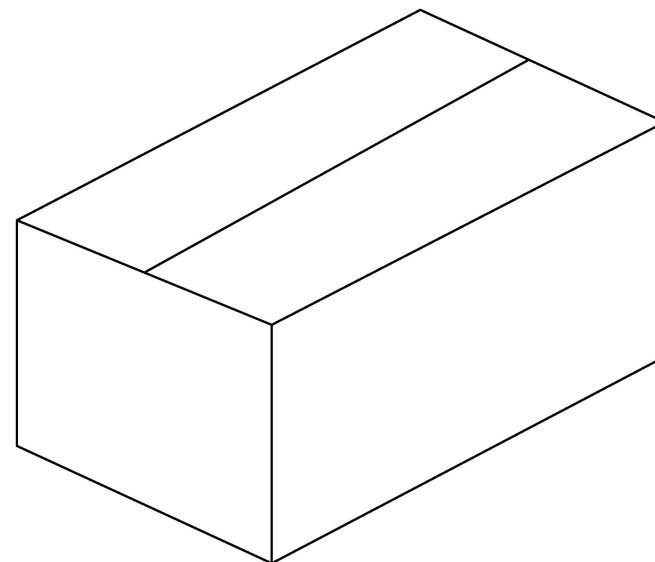
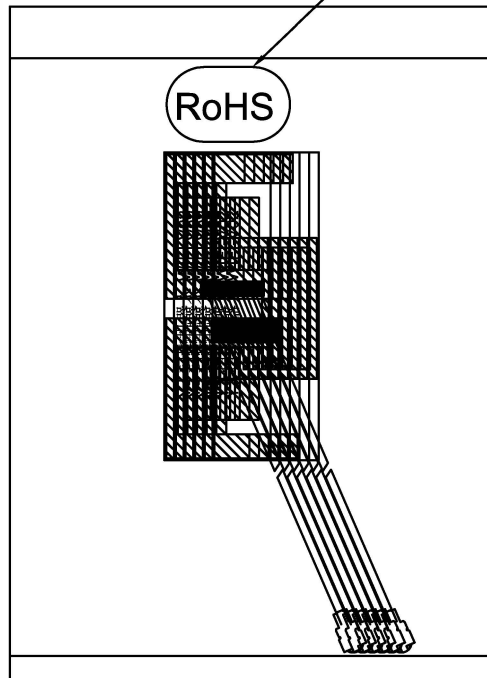
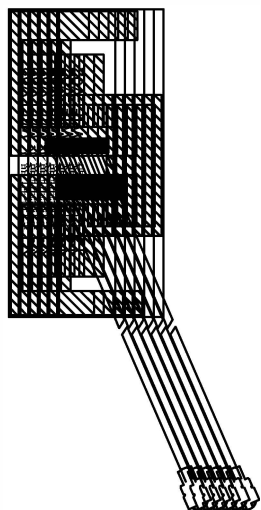
X.XX±0.15

X° ±3°

3	FPCB	31.9*11.0MM	FPCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA1000XA.P01	1
1	Mini Connector	Au Plated 1	Cu	TER1000XA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

RoHS
Compatible

REV.	DESCRIPTION	DATE
△		2025-03-12



EG 东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: RF Cable Parts

PART NO.:YJH01.100.002.301A

DATE: 2025-03-12

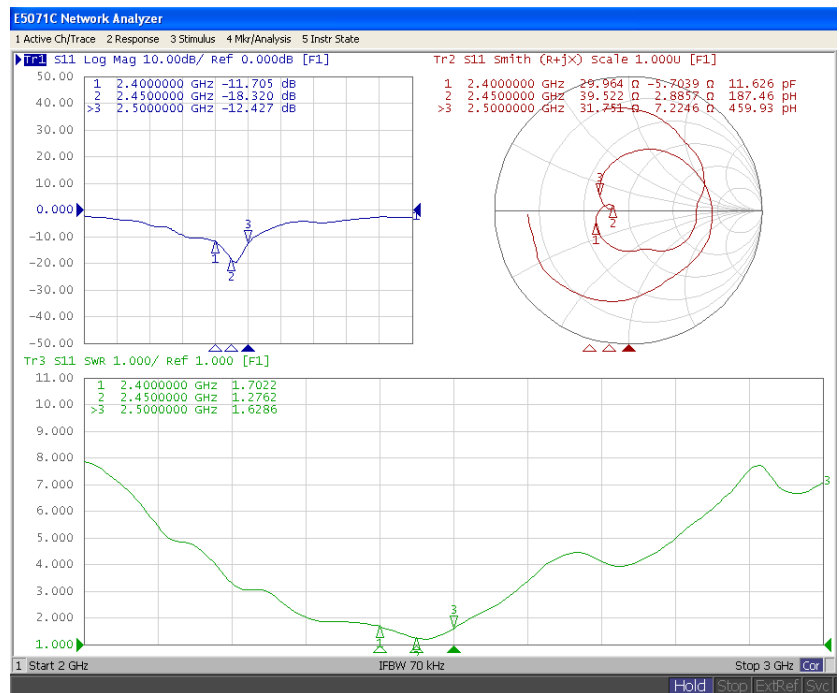
APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm	Tolerance
			SCALE: 1/1	X.X ±0.50
			REVISION: A	X.XX±0.15
				X° ±3°

Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.3 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	IPEX
Cable Type	O.D.1.13mm
Cable Length	70mm
Cable Color	Black
Operating Temp	-20~+70℃
Storage Temp	-20~+70℃

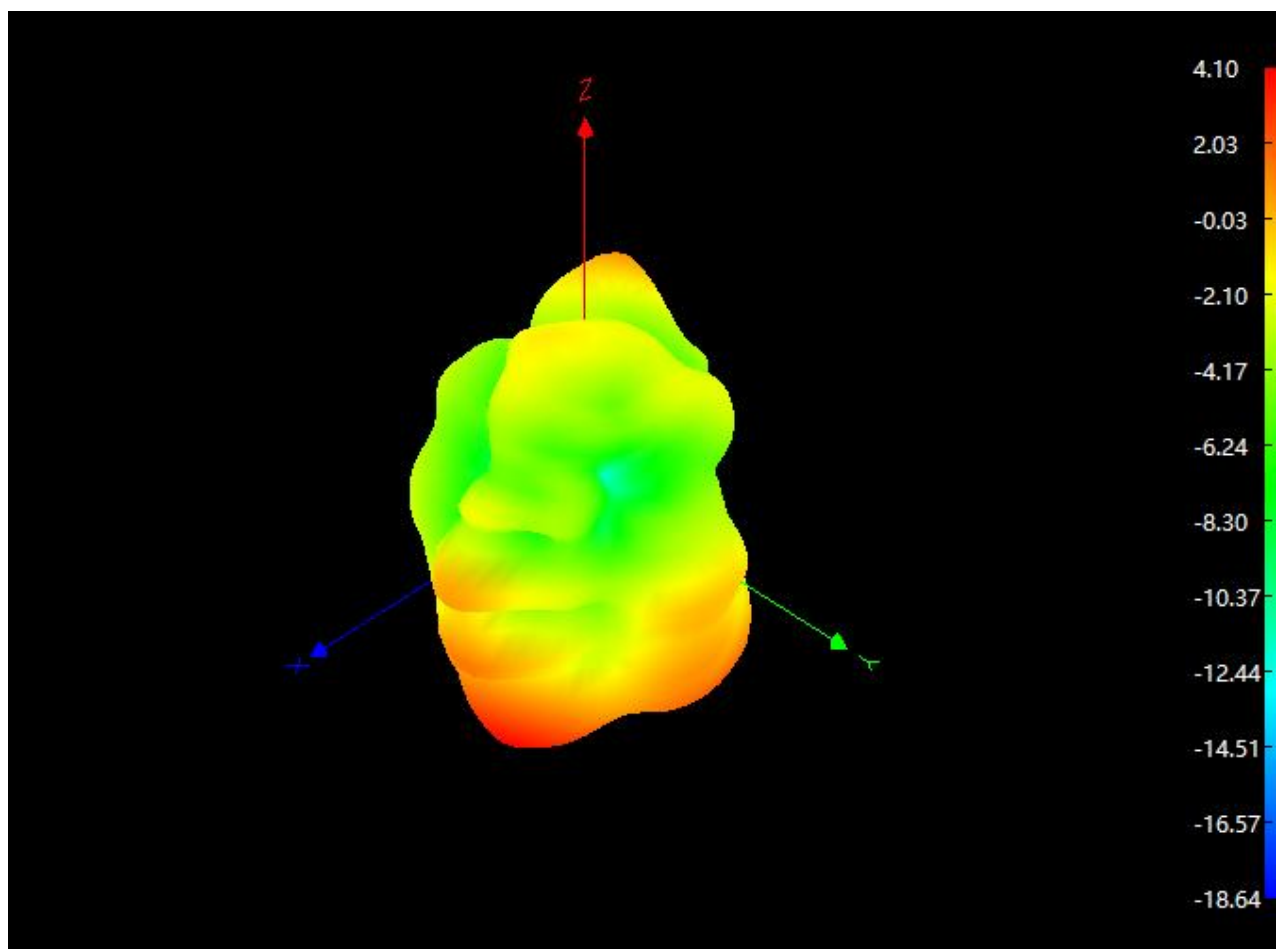
Antenna Performance Test

Agilent
E5071C
S
Parameter
Test //
WiFi
Antenna



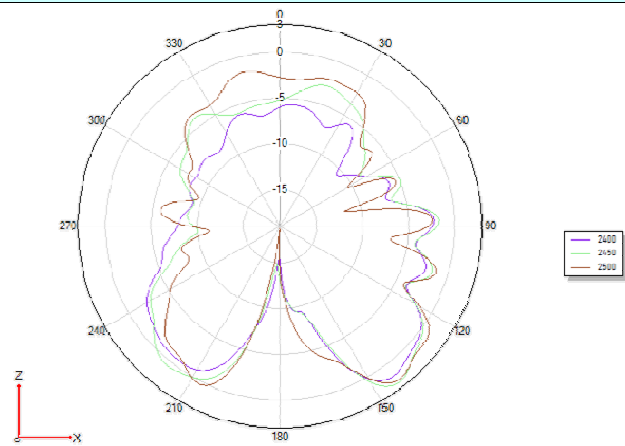
Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.0	-3.7	3.1
2410	43.8	-3.6	3.2
2420	45.6	-3.4	3.6
2430	47.2	-3.3	4.0
2440	45.7	-3.4	4.0
2450	44.4	-3.5	4.1
2460	41.4	-3.8	3.8
2470	40.9	-3.9	3.7
2480	43.4	-3.6	4.1
2490	45.2	-3.5	4.3
2500	45.2	-3.5	4.1

Radiation Pattern For WiFi Antenna (2450MHz)

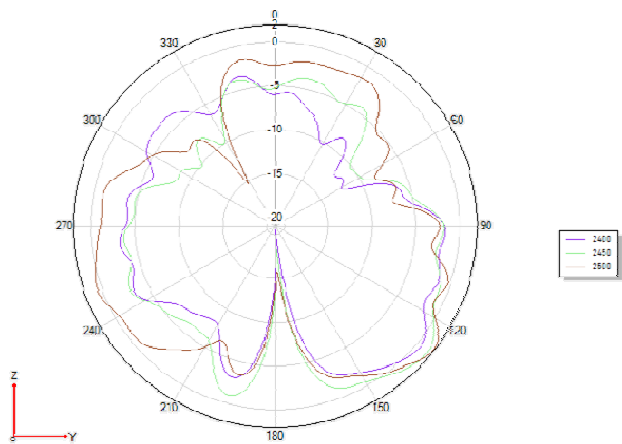


Radiation Pattern For WiFi Antenna

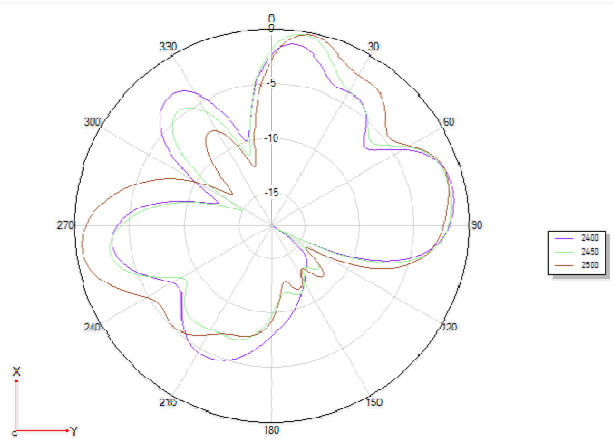
Phi 0°



Phi 90°



Theta 90°



Active Test For WiFi Antenna

Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	15.7	11Mbps	-89.3
	6		16.2		-89.5
	11		15.9		-89.1
WIFI 2.4G 802.11g	1	54Mbps	11.2	54Mbps	-73.9
	6		11.3		-72.5
	11		11.1		-73.6
WIFI 2.4G 802.11n	1	65Mbps	10.8	65Mbps	-68.8
	6		11.1		-67.3
	11		10.7		-68.8