



规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2025/07/04
编号 File No	25070402
版本 Revision	1.0

客户
CUSTOMER: 天波 Telpo Technology Co., Ltd.

客户料号
CUSTOMER NO: K1D

品名
PART NAME: WiFi Antenna L=290mm MHF

供方料号
SUPPLIER NO: YJW01.076.339.302A

送样日期Date:

送样数量Q'TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

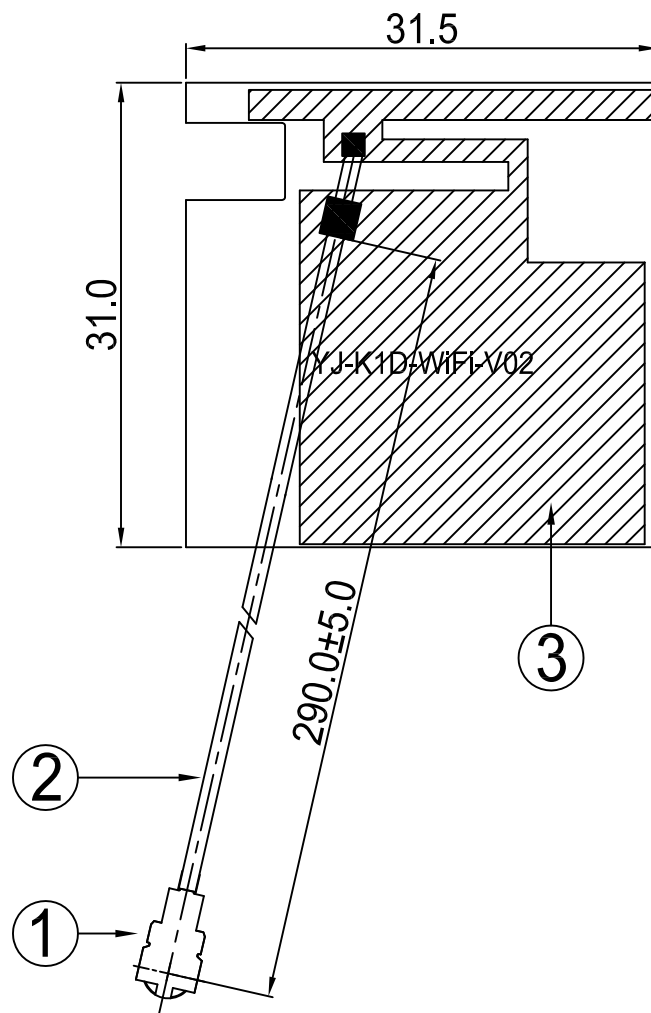


RoHS

Compatible

CUSTOMER

PART NO



3	FPC	31.5*31.0mm	FPC	W01.076.339.FPC0201T	1
2	Coaxial Cable	O.D.1.13 Black Low Loss	O.D.1.13	COA10001A.P02	1
1	Mini Connector	Au Plated 1代	Cu	TER10001A.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

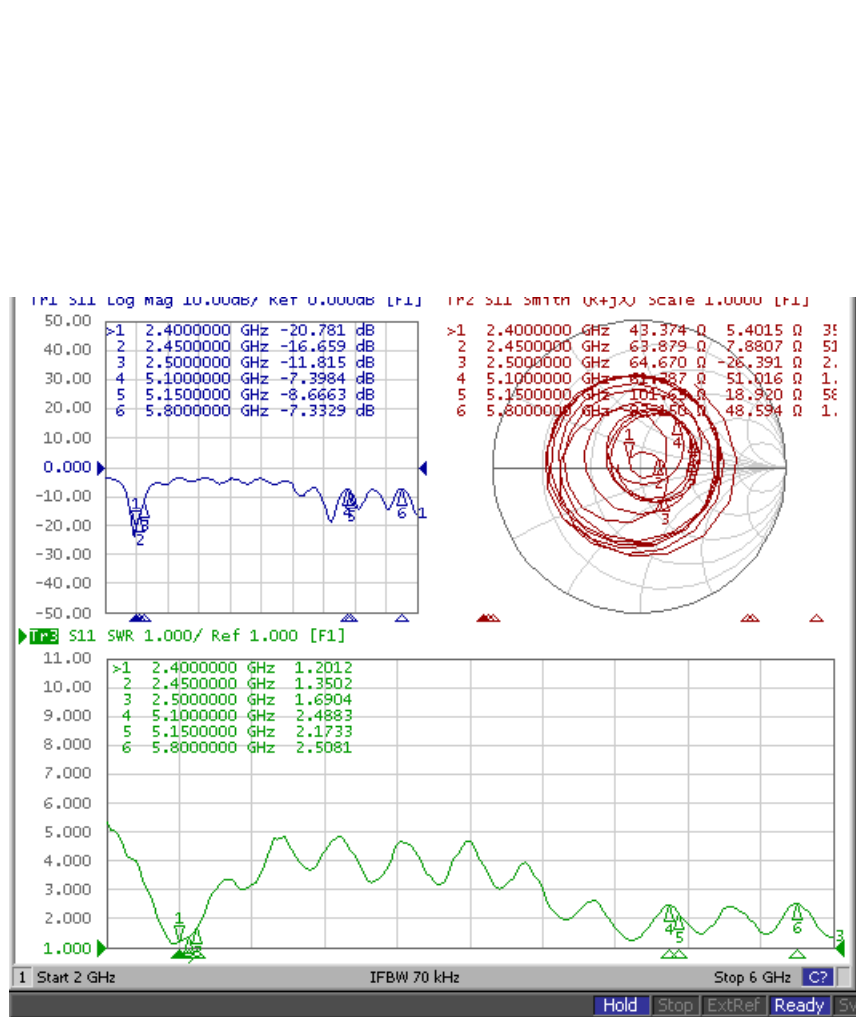


天线规格
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.1-5.8GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 3.0 Max@5.1-5.8GHz
Gain	2.7 dBi@2.4-2.5GHz 4.5 dBi@5.1-5.8GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm Low loss
Cable Length	290mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



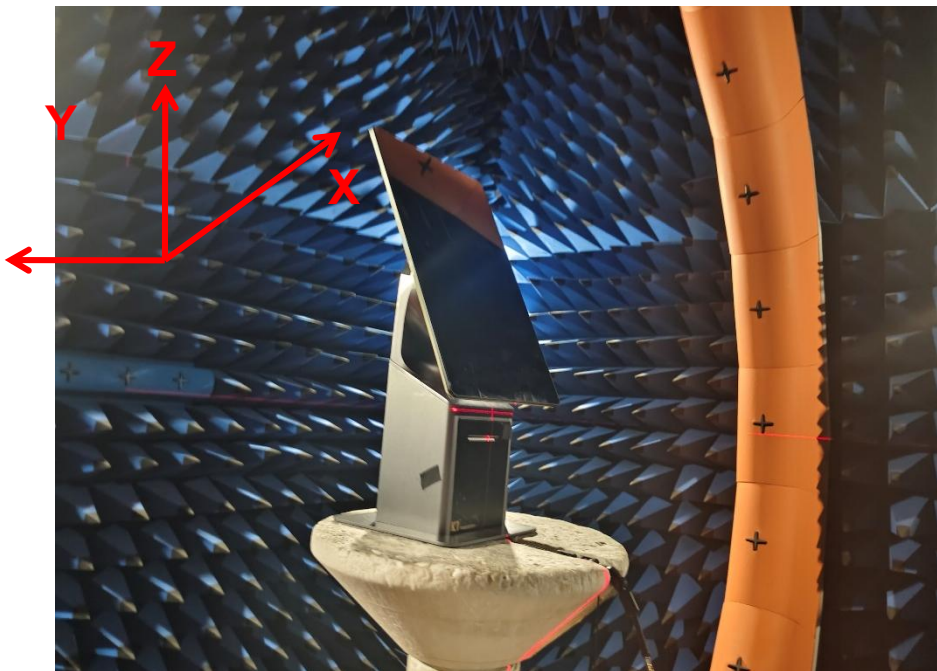
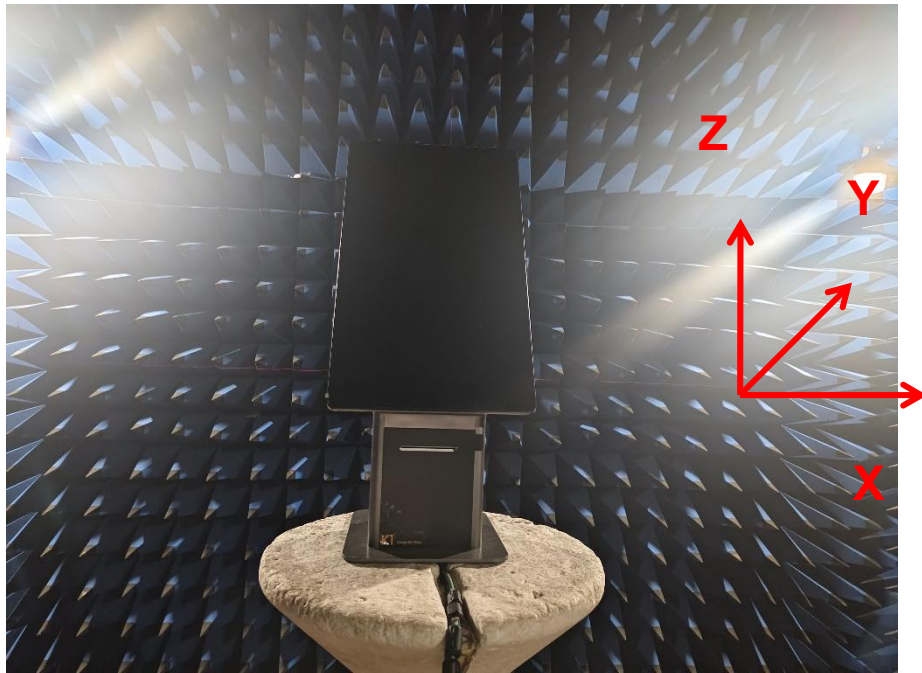
*Agilent
E5071C
S
Parameter
Test //
WiFi
Antenna*





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Antenna Passive Test





Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.7	-3.1	2.7
2410	49.6	-3.0	2.6
2420	49.4	-3.1	2.3
2430	49.3	-3.1	2.3
2440	48.8	-3.1	2.1
2450	50.0	-3.0	2.1
2460	47.7	-3.2	1.9
2470	48.4	-3.2	2.3
2480	47.1	-3.3	2.2
2490	47.1	-3.3	2.4
2500	44.2	-3.5	1.9



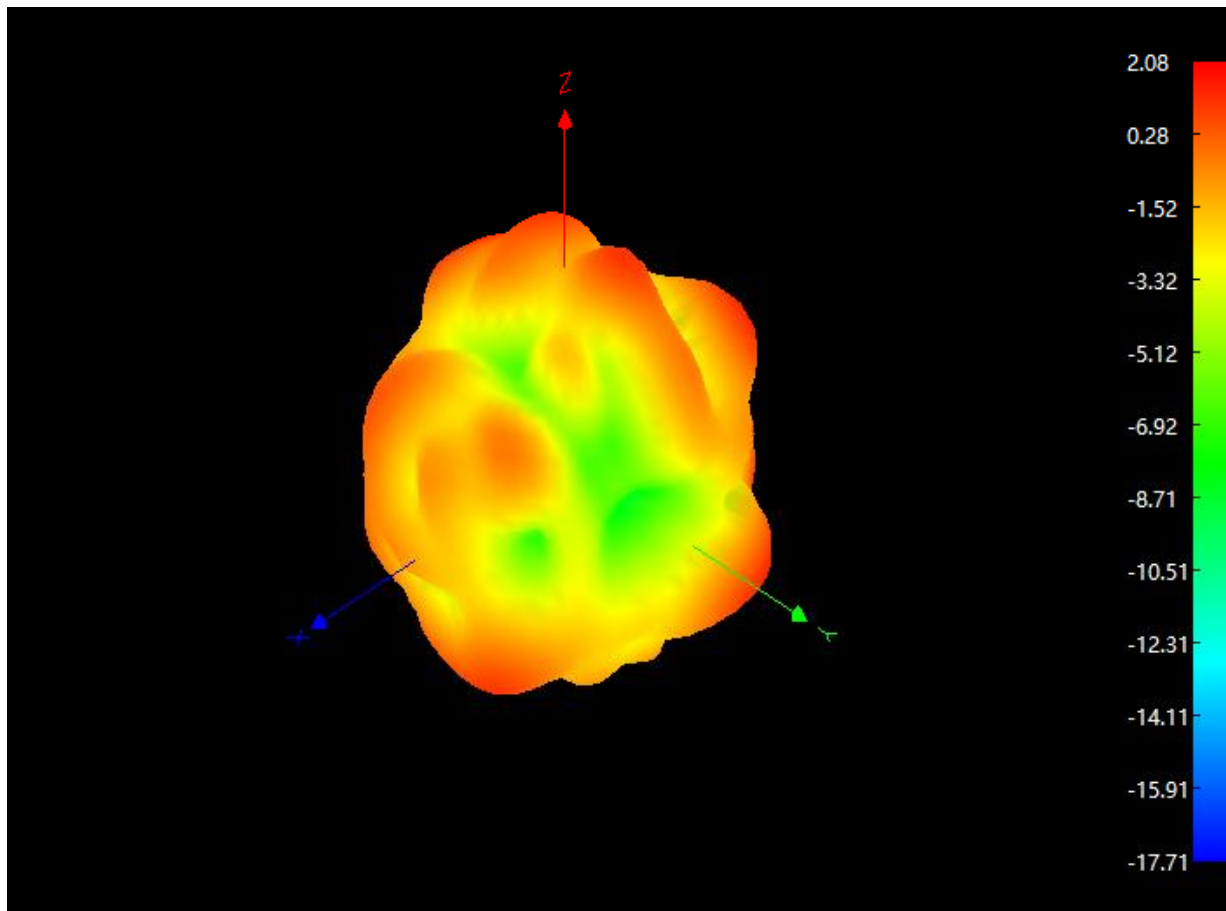
Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	54.2	-2.7	4.5
5200	52.8	-2.8	4.4
5250	49.9	-3.0	4.2
5300	50.6	-3.0	4.3
5350	50.4	-3.0	4.2
5400	54.1	-2.7	4.4
5450	51.9	-2.9	3.9
5500	43.4	-3.6	2.8
5550	45.9	-3.4	3.5
5600	39.5	-4.0	2.6
5650	36.7	-4.4	1.3
5700	38.4	-4.2	0.9
5750	39.5	-4.0	0.8
5800	38.1	-4.2	1.8
5850	40.7	-3.9	2.2



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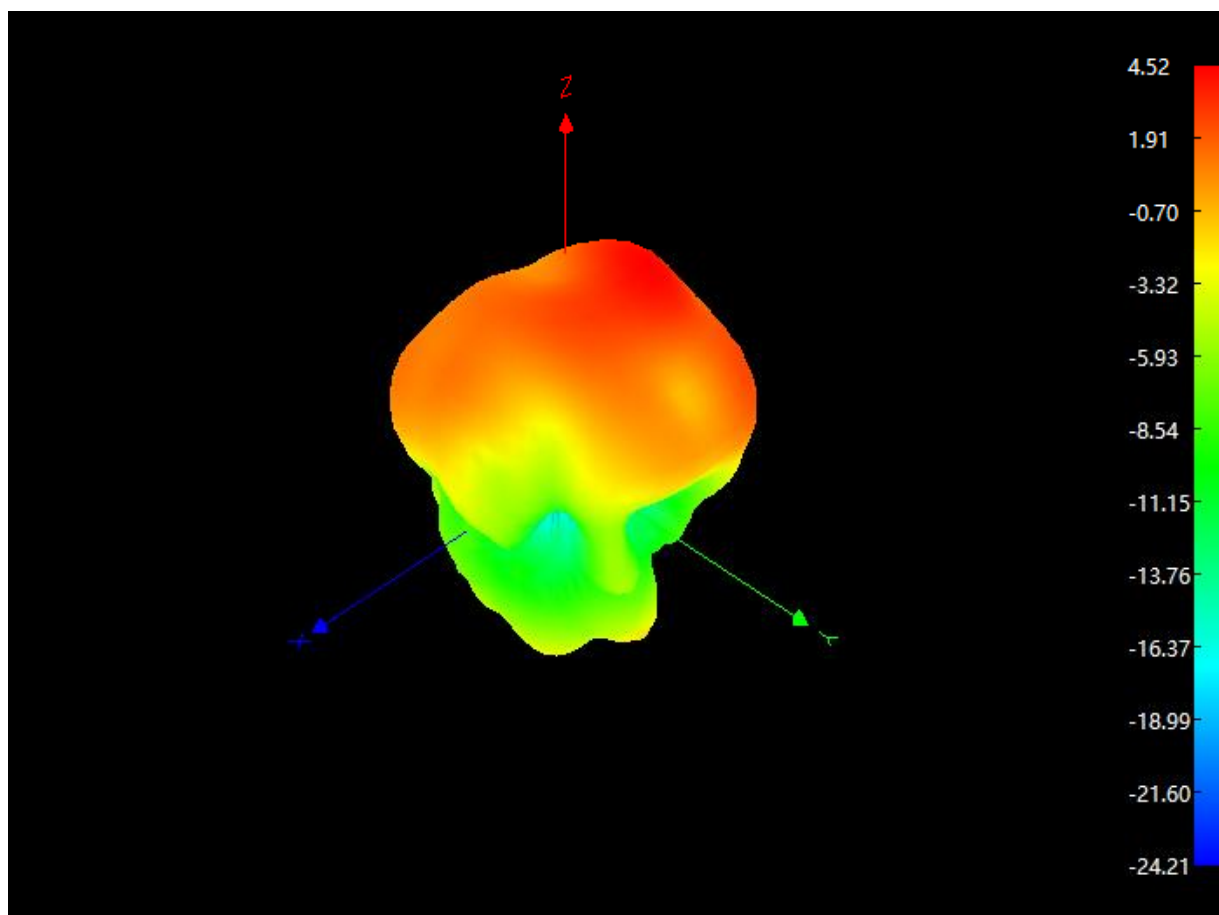
Radiation Pattern For WiFi Antenna(2450MHz)





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Radiation Pattern For WiFi Antenna(5150MHz)





Active Test For WiFi Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	14.8	11Mbps	-84.6
	6		14.9		-84.1
	11		14.5		-83.9
WIFI 2.4G 802.11g	1	6Mbps	13.8	54Mbps	-71.8
	6		14.5		-70.1
	11		14.1		-67.3
WIFI 2.4G 802.11gn	1	MCS0	13.9	MCS7	-67.6
	6		14.4		-66.6
	11		14.1		-66.5
WIFI 5G 802.11a	36	6Mbps	13.4	54Mbps	-71.5
	149		13.5		-72.7
	165		13.8		-72.1



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Device





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*WiFi
Antenna*

