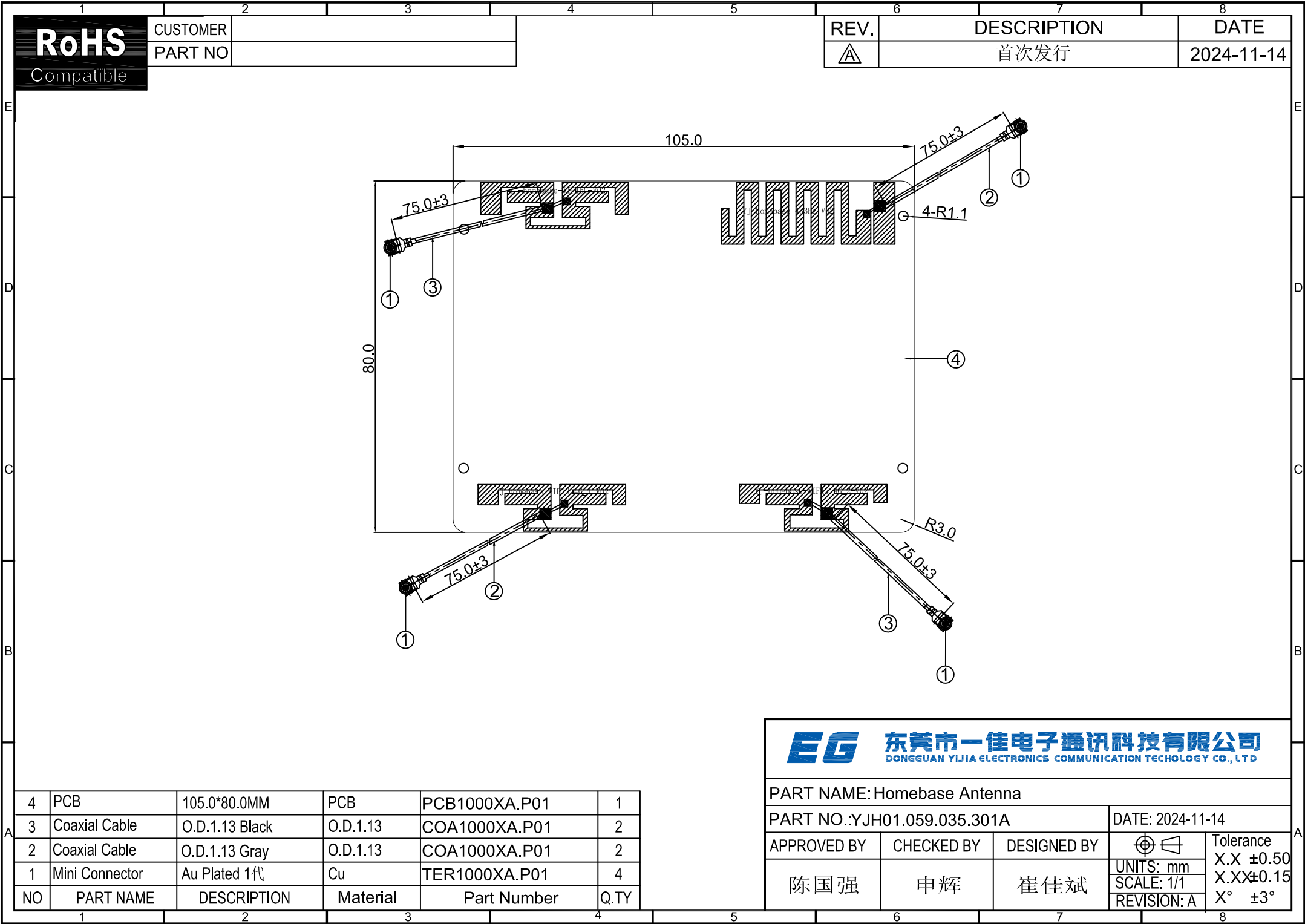




RoHS
Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
△	首次发行	2024-11-14

4	PCB	105.0*80.0MM	PCB	PCB1000XA.P01	1
3	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA1000XA.P01	2
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	COA1000XA.P01	2
1	Mini Connector	Au Plated 1代	Cu	TER1000XA.P01	4
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



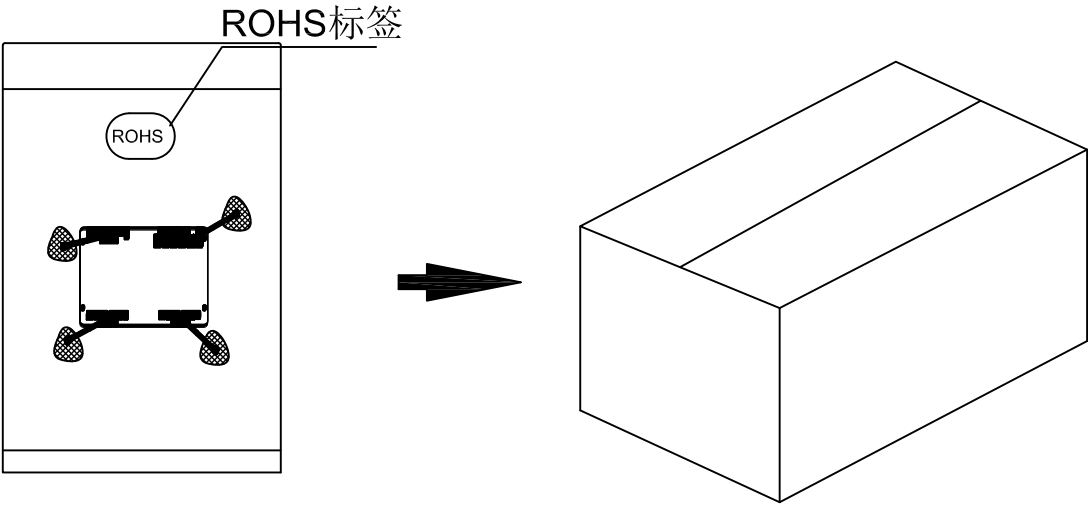
东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: Homebase Antenna				
PART NO.:YJH01.059.035.301A			DATE: 2024-11-14	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
陈国强	申辉	崔佳斌	UNITS: mm	
			SCALE: 1/1	
			REVISION: A	

RoHS
Compatible

包装说明

REV.	DESCRIPTION	DATE
△	首次发行	2024-12-05



1. 20PCS/袋

2. 1000-2000PCS/箱

 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.:YJH01.059.035.301A			DATE: 2024-12-05	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
陈国强	申辉	崔佳斌		X.X ±0.50
				X.XX±0.15
			UNITS: mm	X° ±3°
			SCALE: 1/1	
			REVISION: A	



天线规格-WiFi2.4G
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	WiFi2.4G -1: 3.3 dBi WiFi2.4G -2: 3.1 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	75mm
Cable Color	WiFi2.4G -1: Gray WiFi2.4G -2: Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	-20 ~ +70 °C / <70%





天线规格-WiFi5G
Antenna Specification

Electrical Properties	
Frequency	5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.7 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	75mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	-20 ~ +70 ° C/ <70%





天线规格-433MHz
Antenna Specification

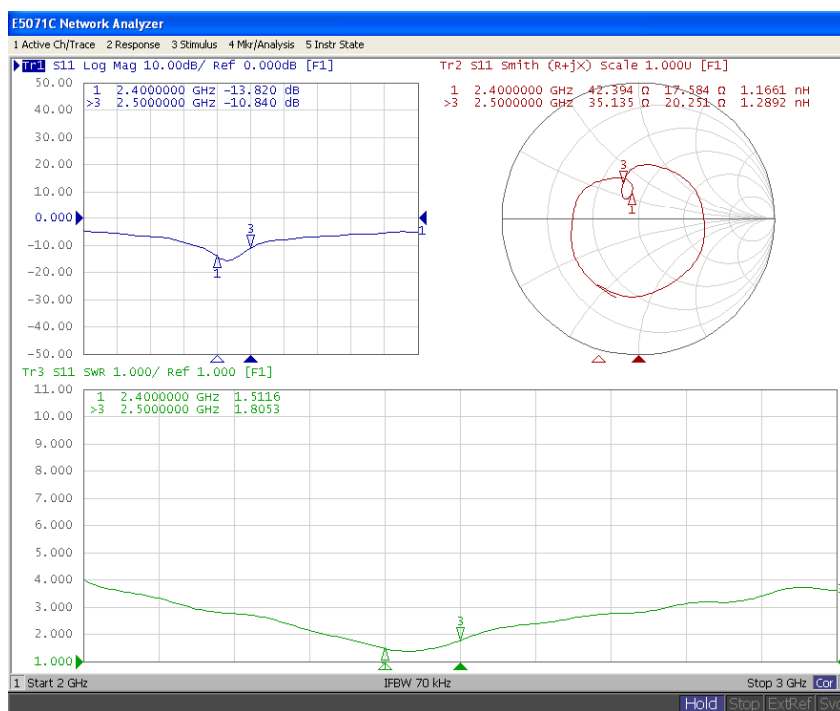
Electrical Properties	
Frequency	433MHz
Impedance	50 Ohm Nominal
V.S.W.R	4.5 Max
Gain	-5.9 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	75mm
Cable Color	Gray
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	-20 ~ +70 ° C/ <70%





Antenna Performance Test

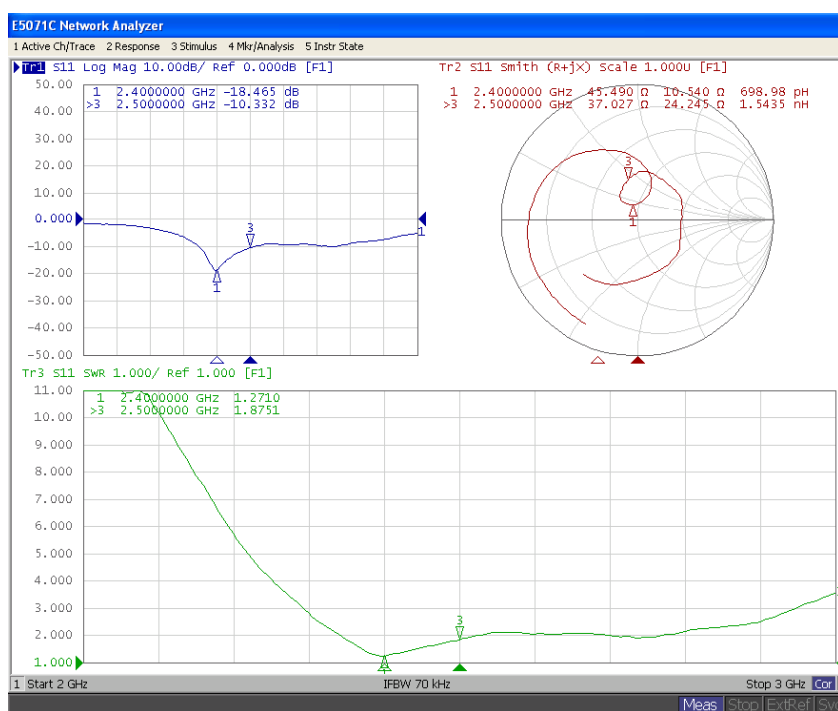
**Agilent
E5071C
S
Parameter
Test //
WiFi2.4G-1
Antenna**





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DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

*Agilent
E5071C
S
Parameter
Test //
WiFi2.4G-2
Antenna*

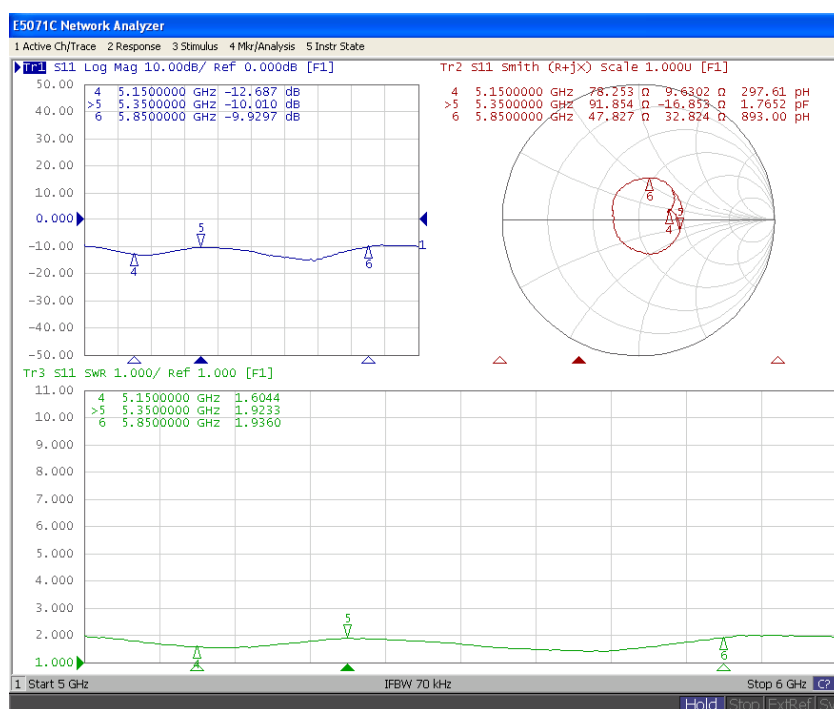


东莞市长安镇沙头社区木鱼路59号 Tel:0769-82586086 Fax:0769-82586086



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*Agilent
E5071C
S
Parameter
Test //
WiFi5G
Antenna*

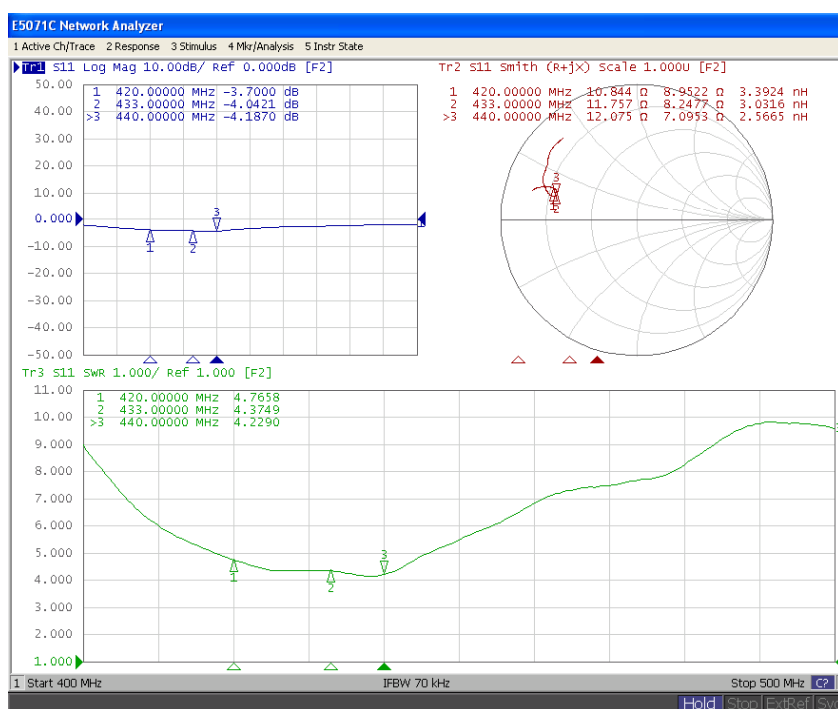


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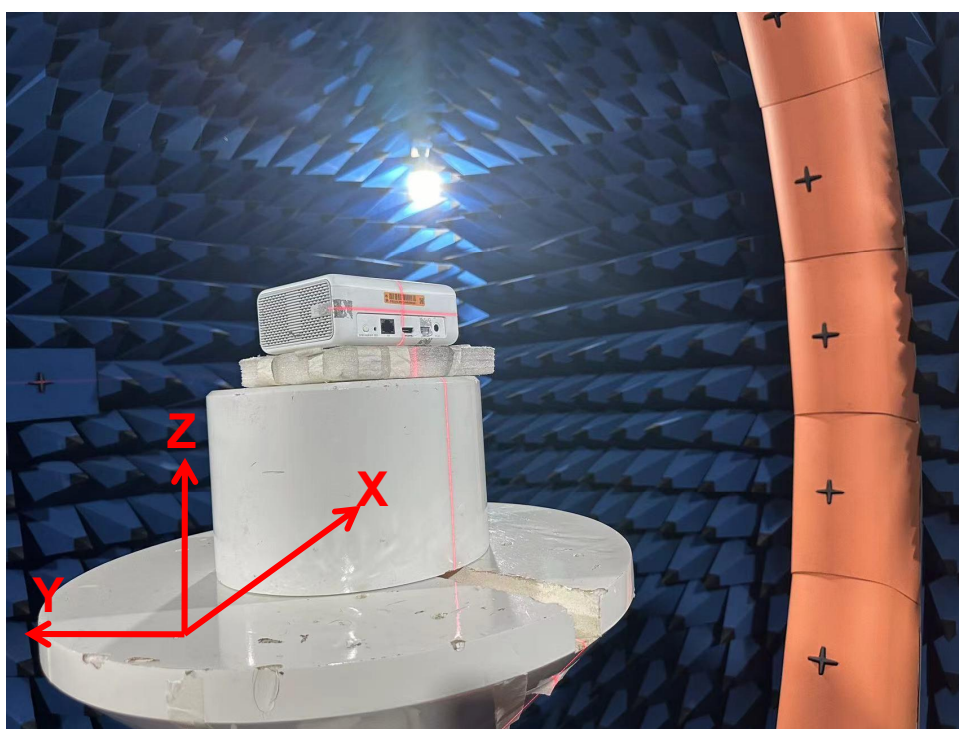
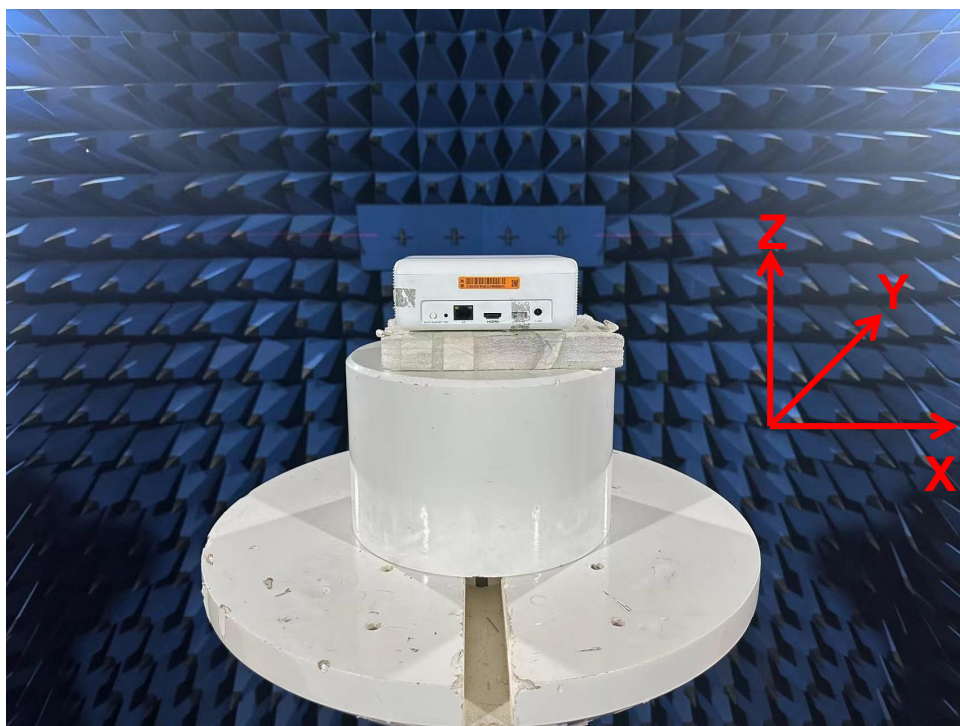
*Agilent
E5071C
S
Parameter
Test //
433MHz
Antenna*



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Antenna Passive Test





Passive Test For WiFi2.4G-1 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	58.5	-2.3	2.8
2410	59.4	-2.3	2.3
2420	60.4	-2.2	2.3
2430	60.0	-2.2	2.4
2440	59.0	-2.3	2.4
2450	56.5	-2.5	2.0
2460	55.6	-2.6	2.1
2470	56.6	-2.5	2.3
2480	56.5	-2.5	3.0
2490	59.4	-2.3	3.3
2500	58.4	-2.3	3.2





Passive Test For WiFi2.4G-2 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	61.8	-2.1	2.4
2410	64.1	-1.9	2.3
2420	65.5	-1.8	2.4
2430	65.2	-1.9	2.4
2440	64.7	-1.9	2.0
2450	63.0	-2.0	1.6
2460	62.7	-2.0	1.9
2470	63.2	-2.0	2.4
2480	63.3	-2.0	2.4
2490	62.5	-2.0	2.5
2500	62.3	-2.1	3.1





Passive Test For WiFi5G Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	51.1	-2.9	3.1
5200	52.2	-2.8	3.5
5250	49.8	-3.0	3.4
5300	49.9	-3.0	3.7
5350	46.1	-3.4	2.8
5400	53.5	-2.7	3.3
5450	50.7	-3.0	2.4
5500	45.4	-3.4	2.4
5550	52.4	-2.8	2.9
5600	48.1	-3.2	3.1
5650	53.7	-2.7	3.3
5700	51.8	-2.9	3.5
5750	53.6	-2.7	3.5
5800	47.6	-3.2	2.3
5850	50.8	-2.9	3.0





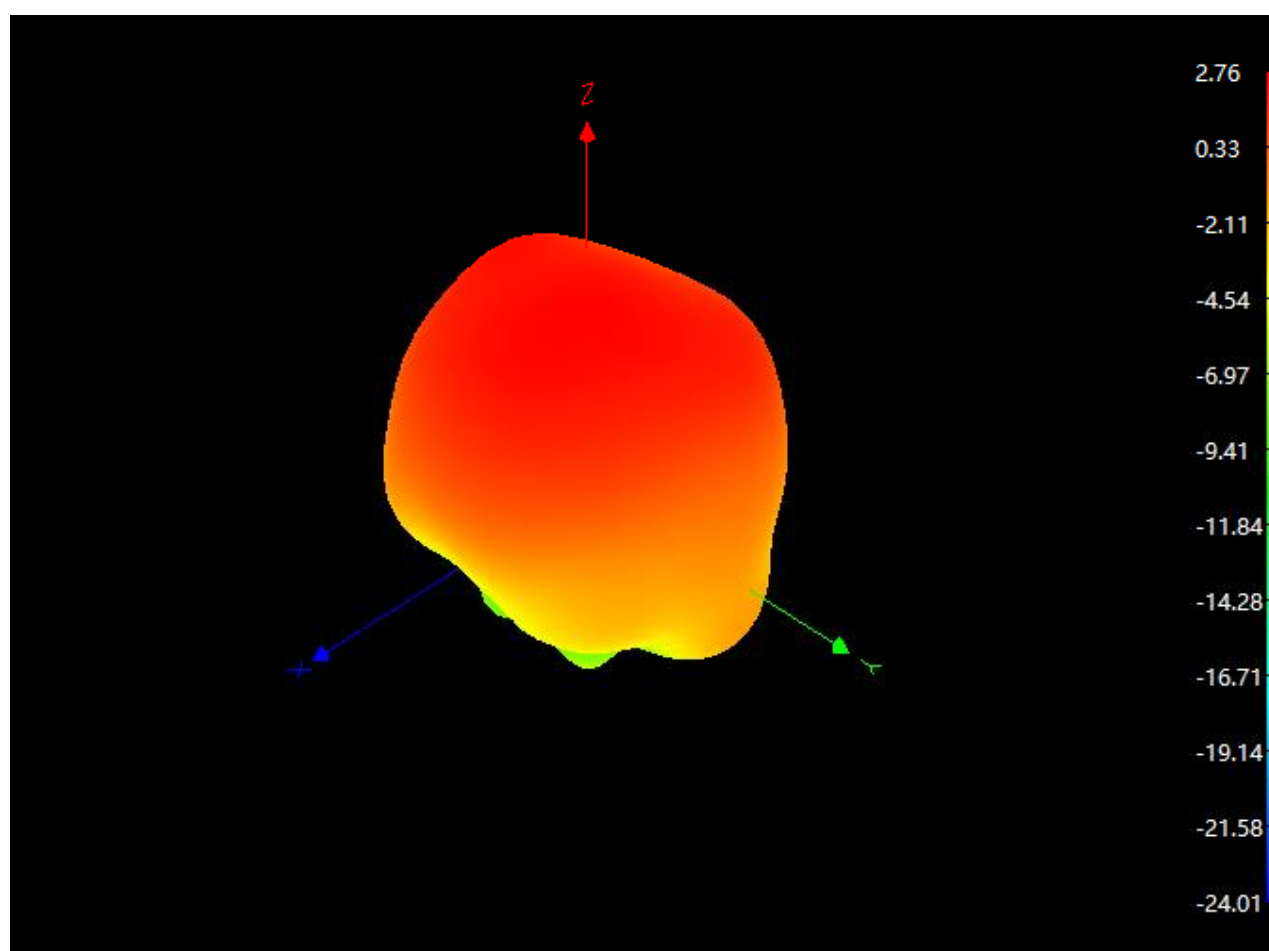
Passive Test For 433MHz Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
430	7.5	-11.2	-6.0
431	8.0	-10.9	-5.8
432	8.3	-10.8	-5.8
433	8.8	-10.5	-5.9
434	9.0	-10.5	-5.9
435	9.6	-10.2	-5.5
436	8.7	-10.6	-5.6
437	8.5	-10.7	-5.6
438	8.4	-10.8	-5.7
439	8.2	-10.8	-5.9
440	8.0	-10.9	-5.9



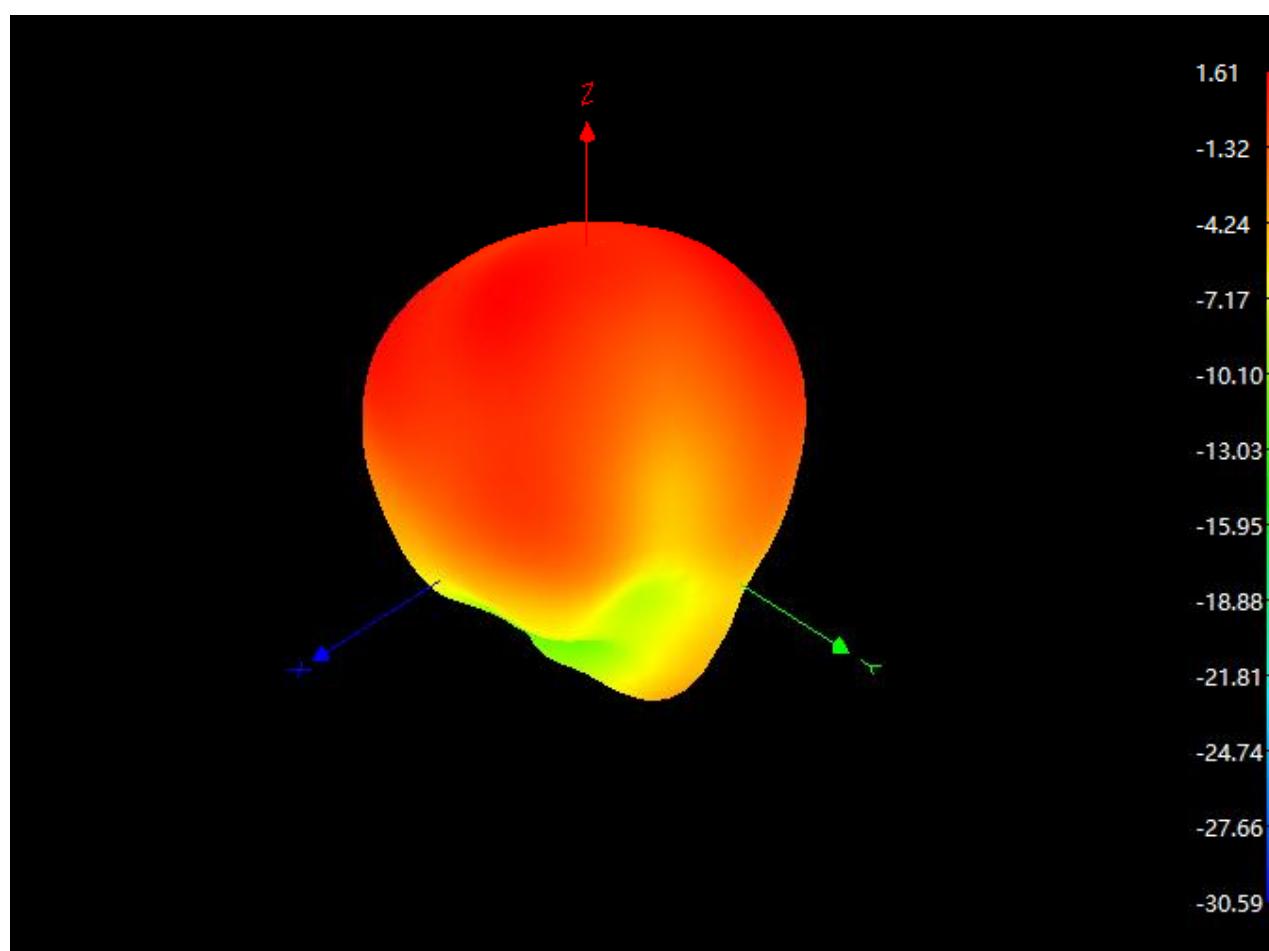


Radiation Pattern For WiFi2.4G-1 Antenna (2450MHz)



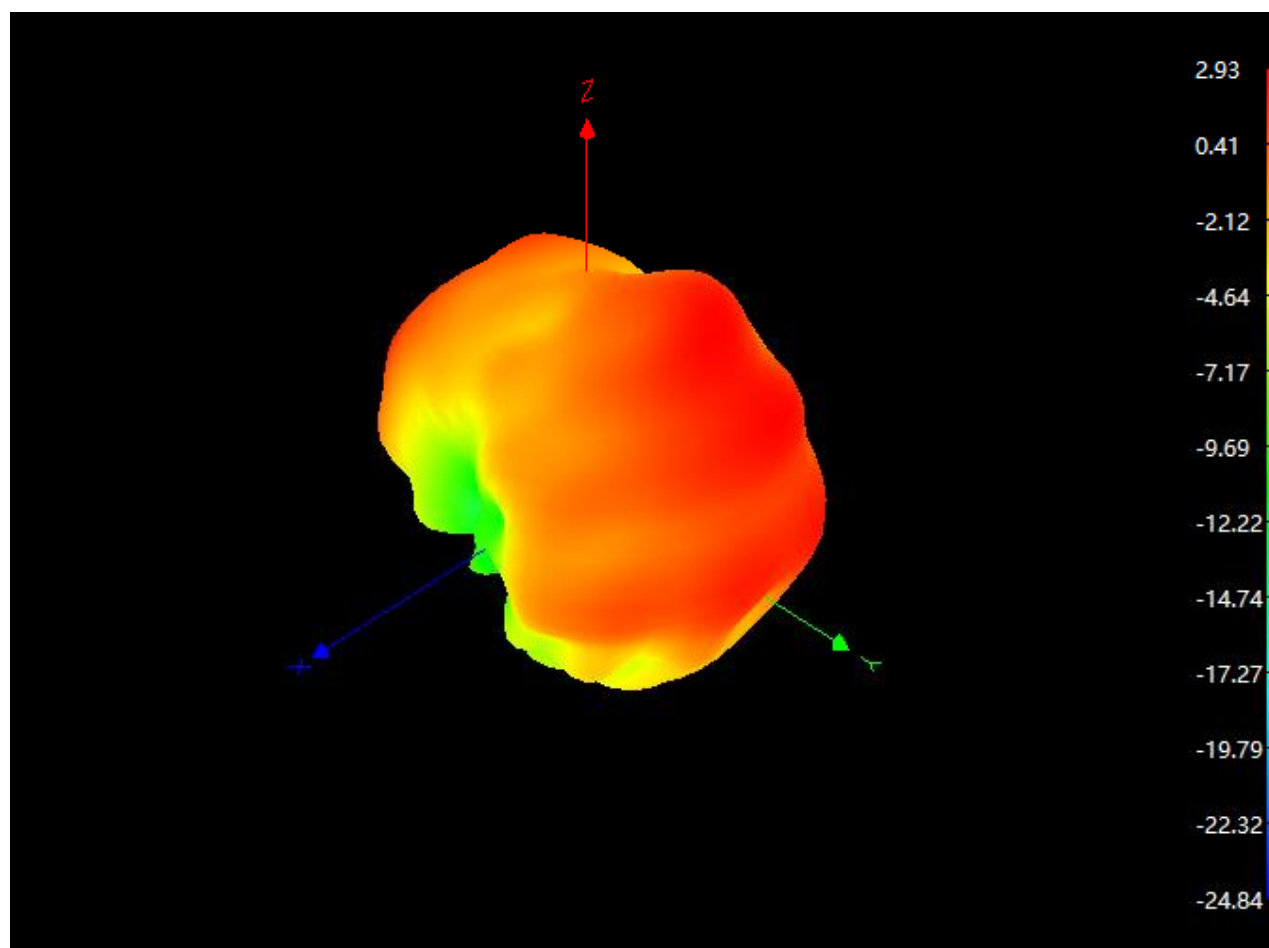


Radiation Pattern For WiFi2.4G-2 Antenna (2450MHz)



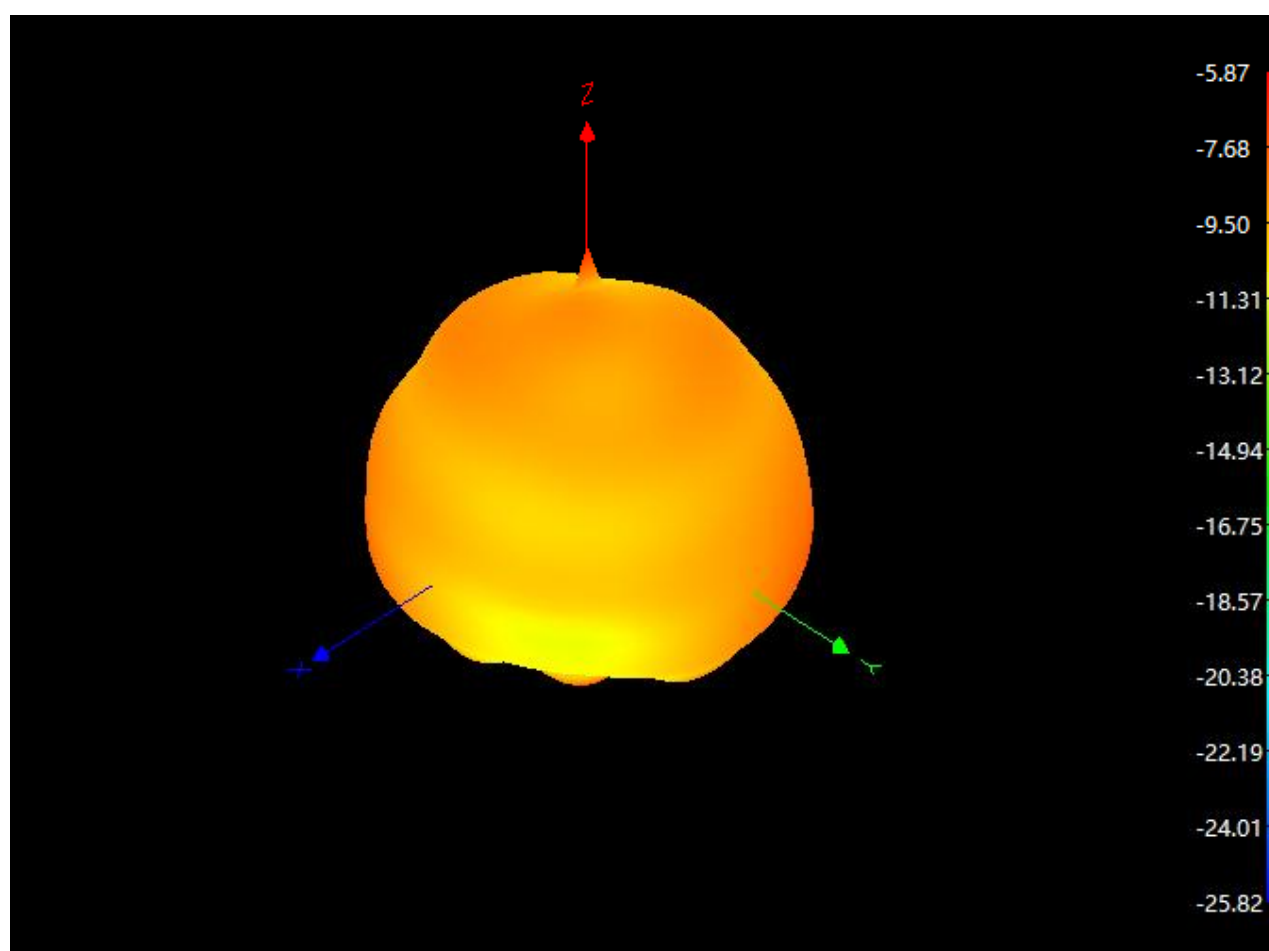


Radiation Pattern For WiFi5G Antenna (5550MHz)





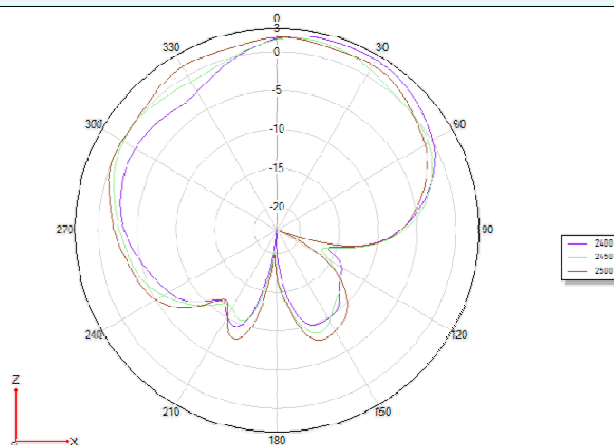
Radiation Pattern For 433MHz Antenna (433MHz)



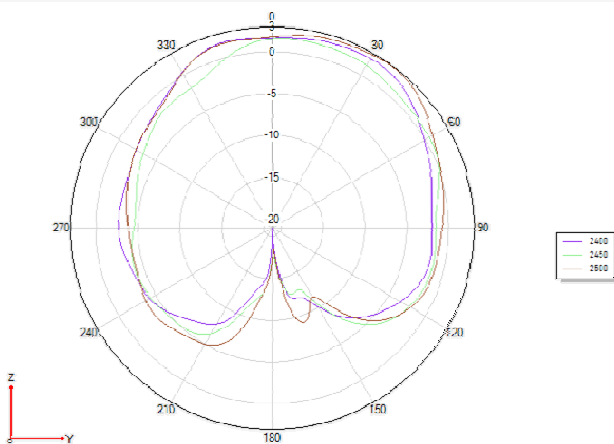


Radiation Pattern For WiFi2.4G-1 Antenna

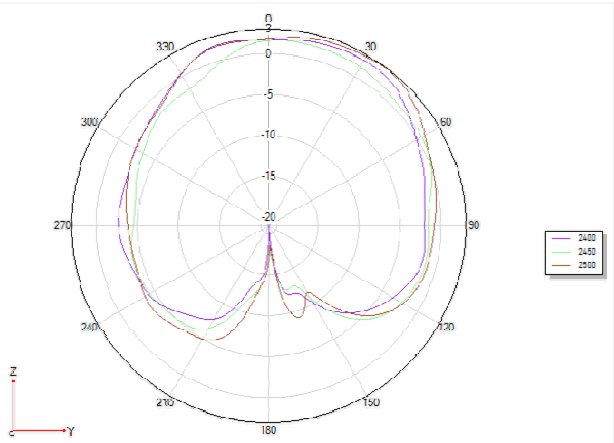
Phi 0°



Phi 90°



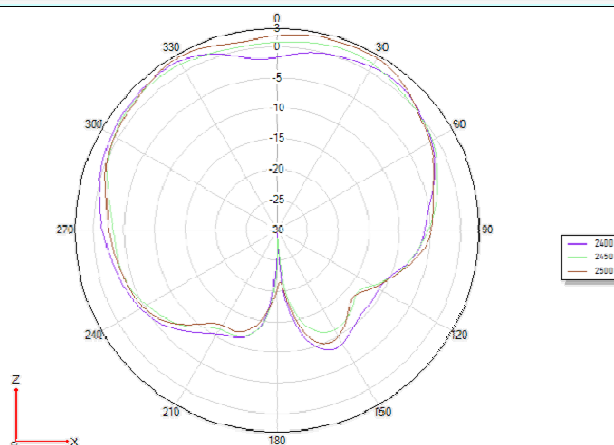
Theta 90°



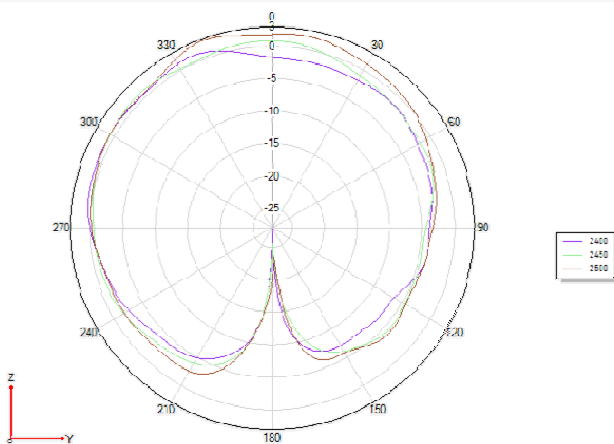


Radiation Pattern For WiFi2.4G-2 Antenna

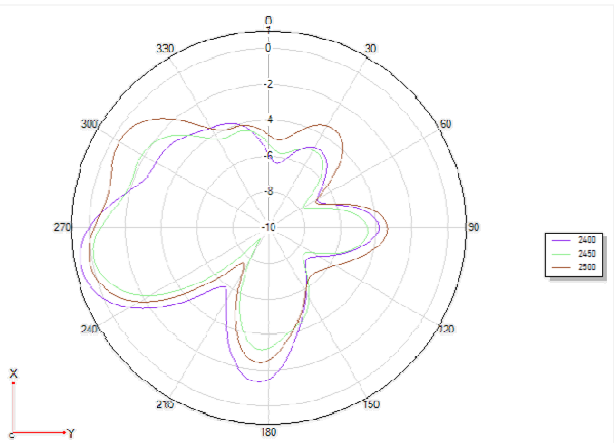
Phi 0°



Phi 90°



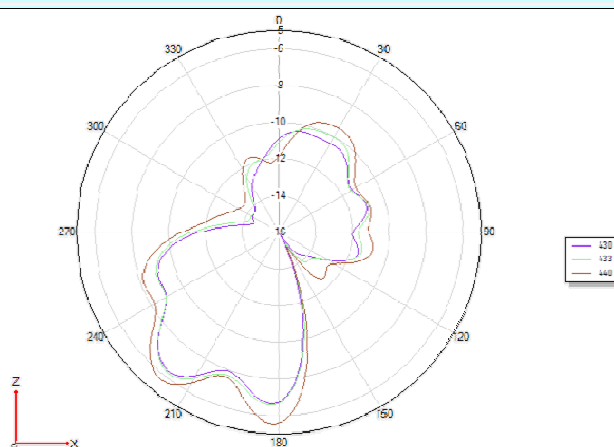
Theta 90°



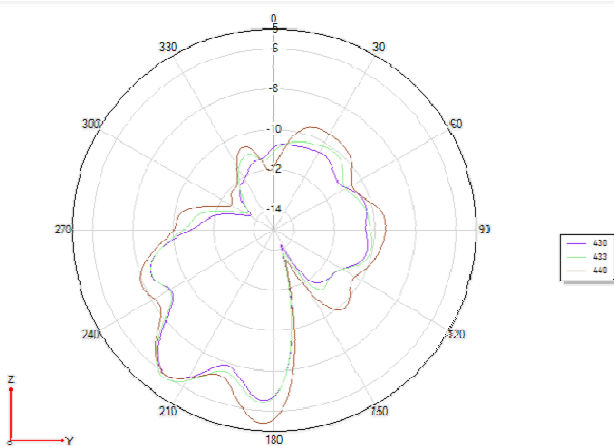


Radiation Pattern For WiFi5G Antenna

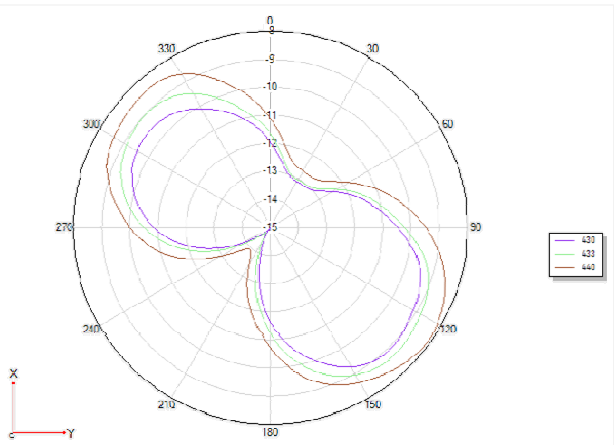
Phi 0°



Phi 90°



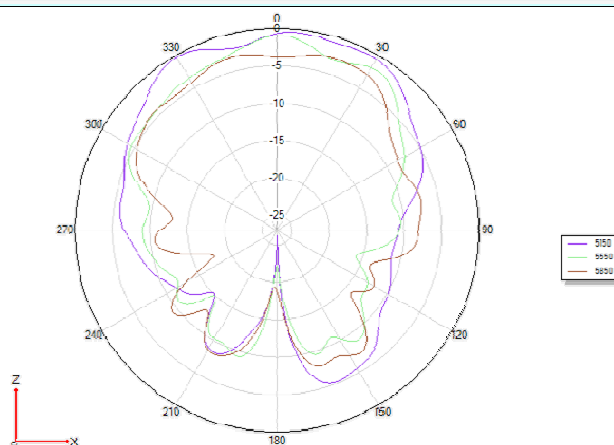
Theta 90°



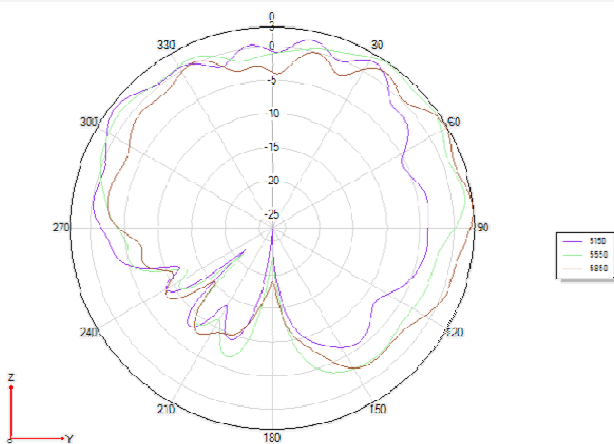


Radiation Pattern For 433MHz Antenna

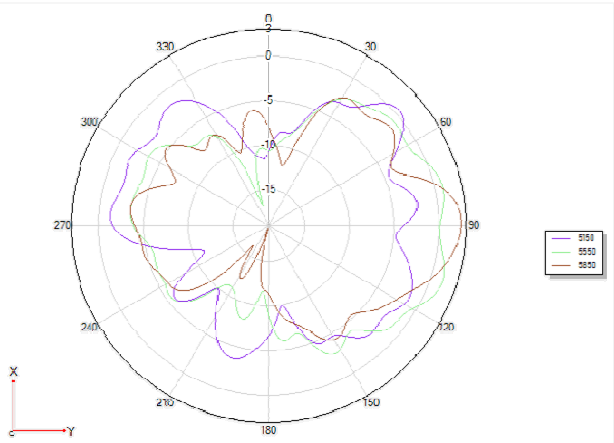
Phi 0°



Phi 90°



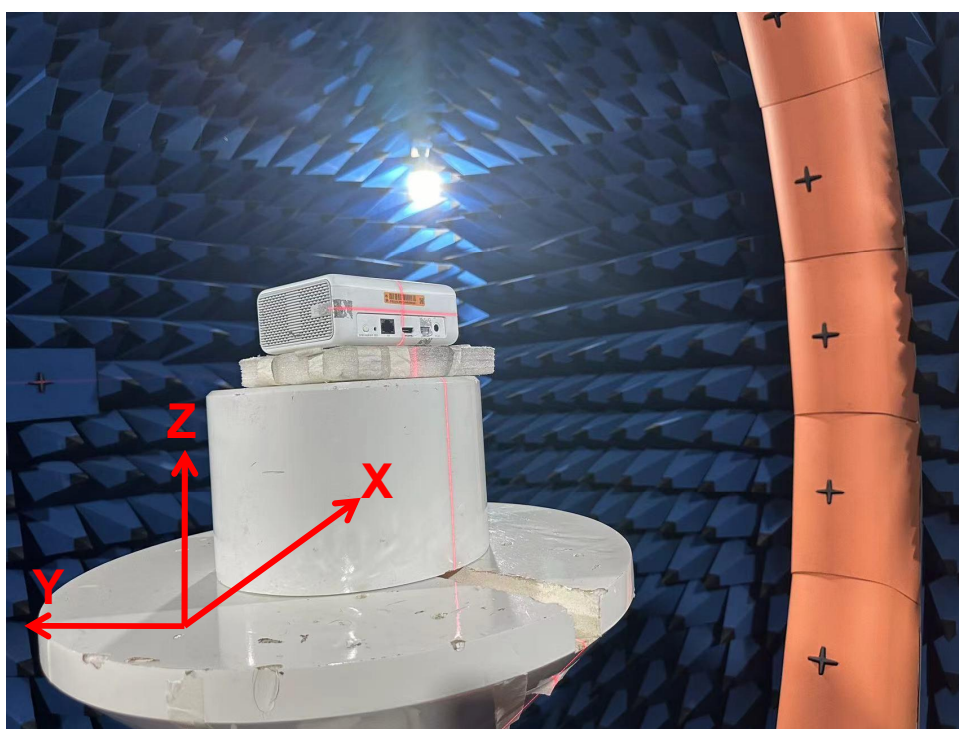
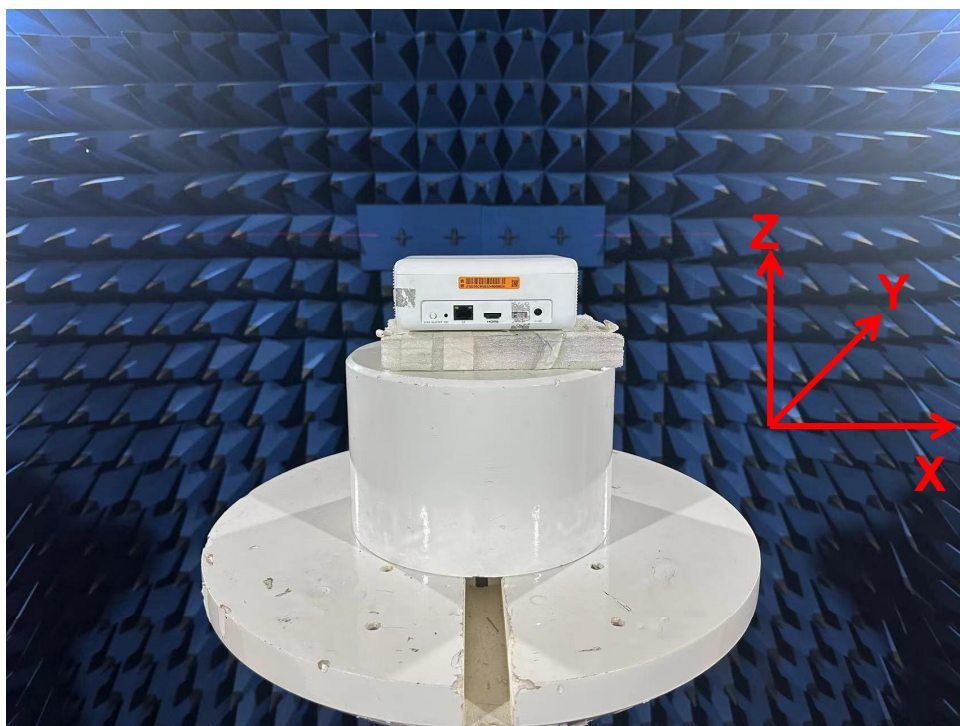
Theta 90°





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

Antenna Active Test



东莞市长安镇沙头社区木鱼路59号 Tel:0769-82586086 Fax:0769-82586086



Active Test For WiFi Antenna					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G-1 802.11b	1	11Mbps	17.0	11Mbps	-80.0
	6		17.5		-81.6
	11		17.9		-83.5
WIFI 2.4G-2 802.11b	1	11Mbps	17.2	11Mbps	-78.3
	6		18.9		-81.5
	11		19.6		-85.9
WIFI 5G 802.11a	36	54Mbps	11.7	54Mbps	-73.7
	100		14.3		-73.4
	165		15.1		-72.3

