



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Antenna Test Report

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

Tester : Deng Lei

Approval : Chen Guoqiang

Date : 2024 / 03 / 04



1. Device Profile

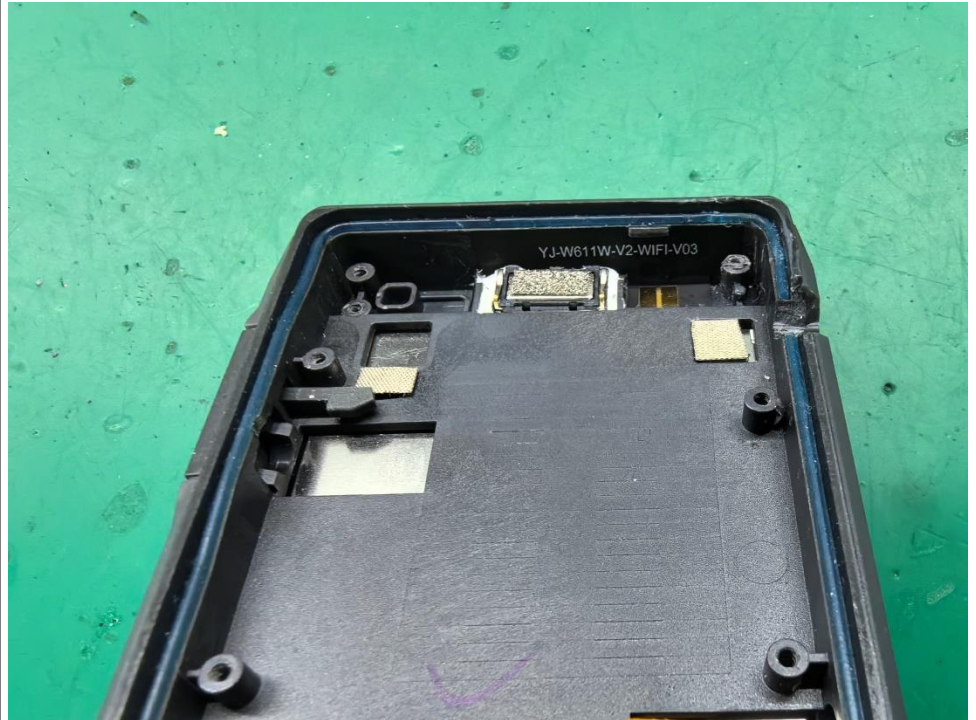
Device





2. WiFi Antenna Test

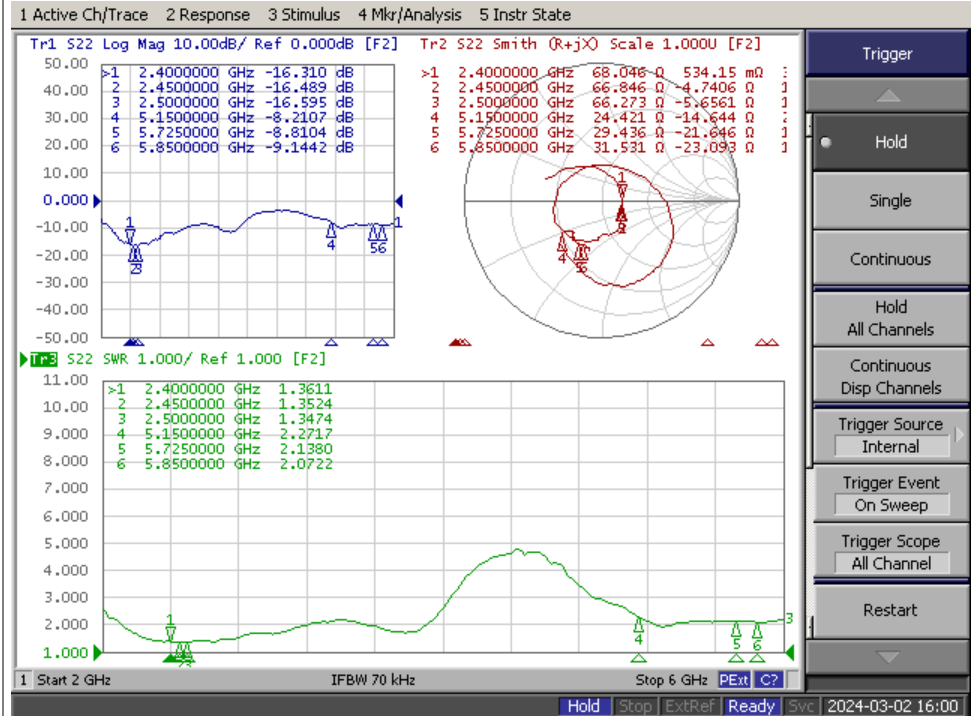
*WiFi
Antenna*



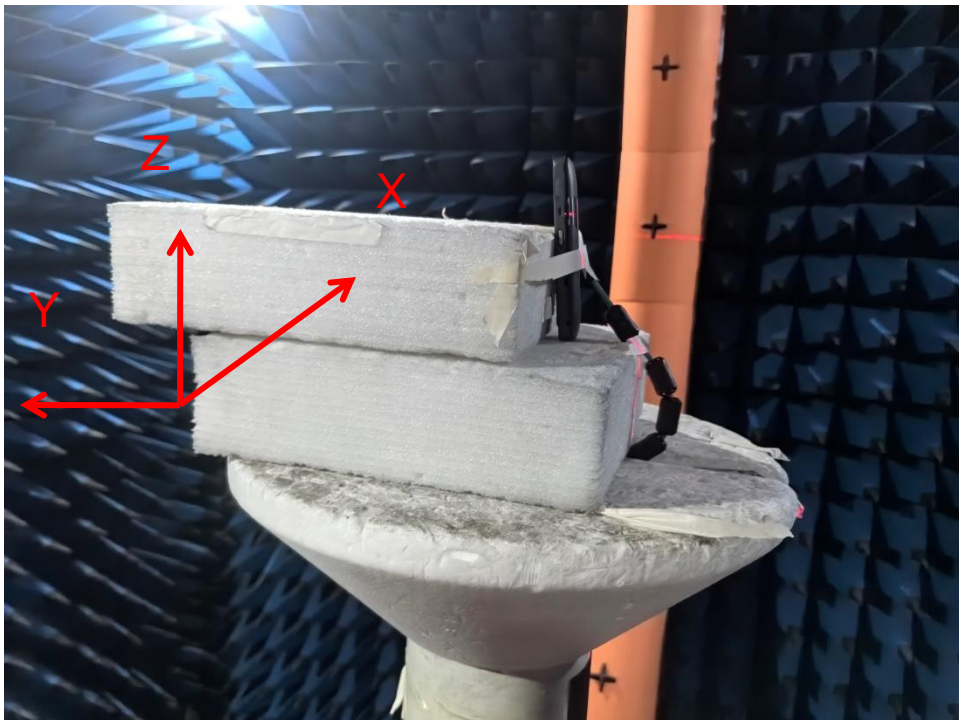
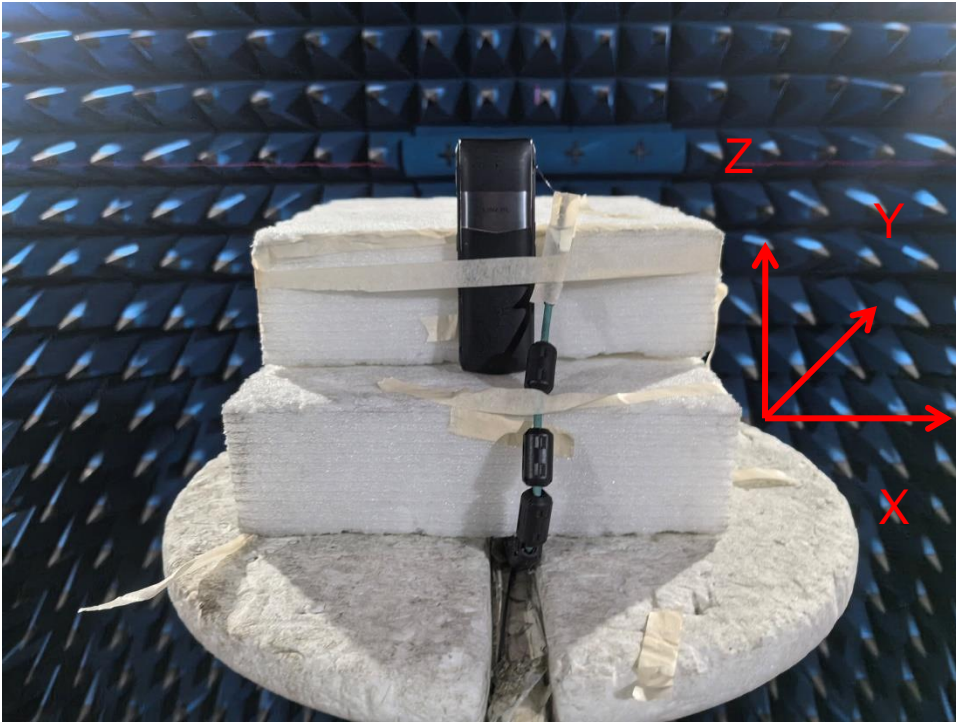


Antenna Performance Test

**Agilent
E5071B
S11
Parameter
Test //
WiFi
Antenna**



Antenna Passive Test





Passive Test For WiFi Antenna (2.4G)

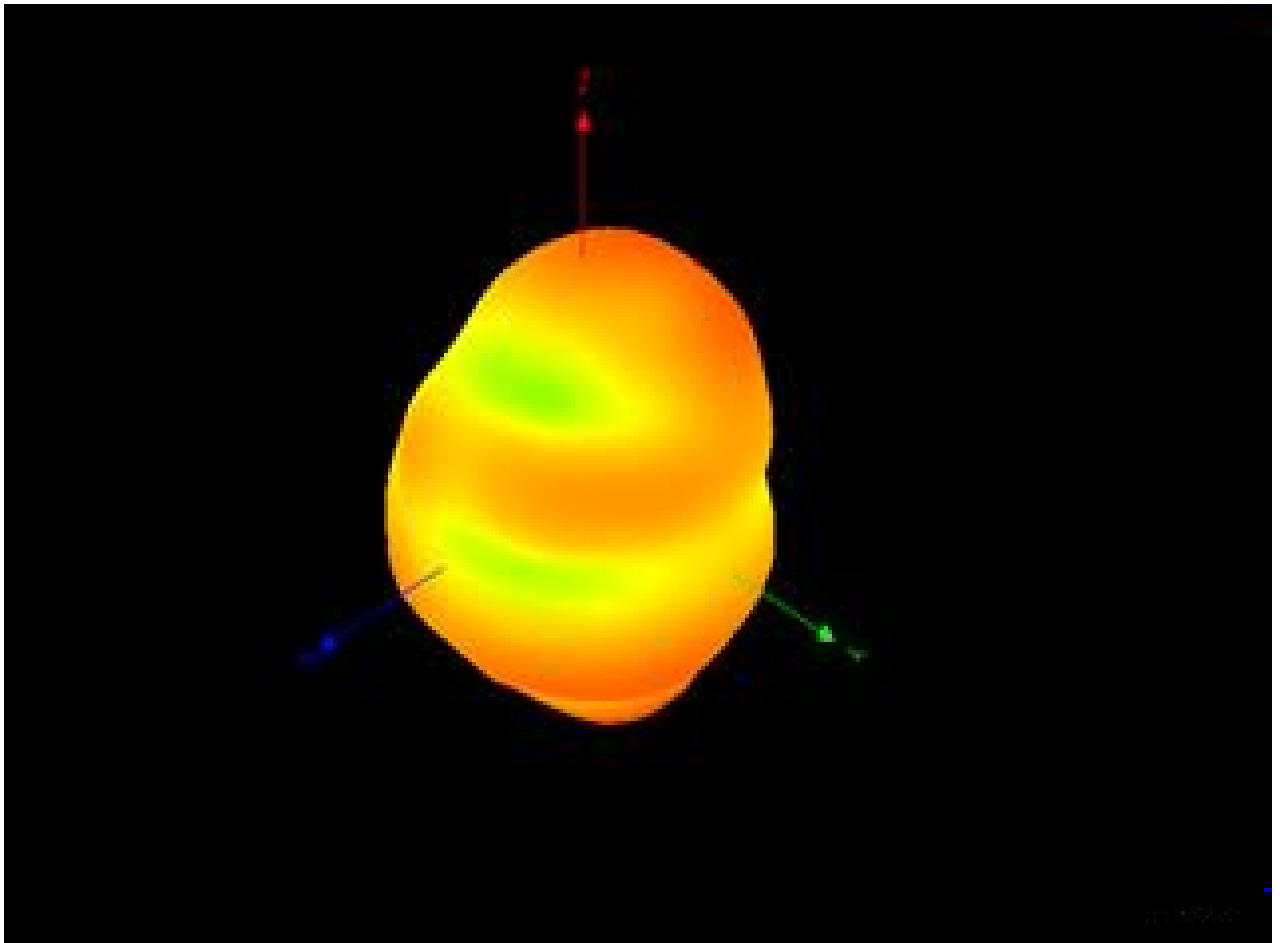
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.7	-2.8	1.0
2410	52.8	-2.8	1.0
2420	51.9	-2.9	0.8
2430	52.2	-2.8	0.6
2440	52.5	-2.8	0.7
2450	53.7	-2.7	1.2
2460	51.2	-2.9	0.8
2470	53.2	-2.7	1.5
2480	51.4	-2.9	1.1
2490	52.5	-2.8	1.3
2500	49.7	-3.0	0.9



Passive Test For WiFi Antenna (5.8G)

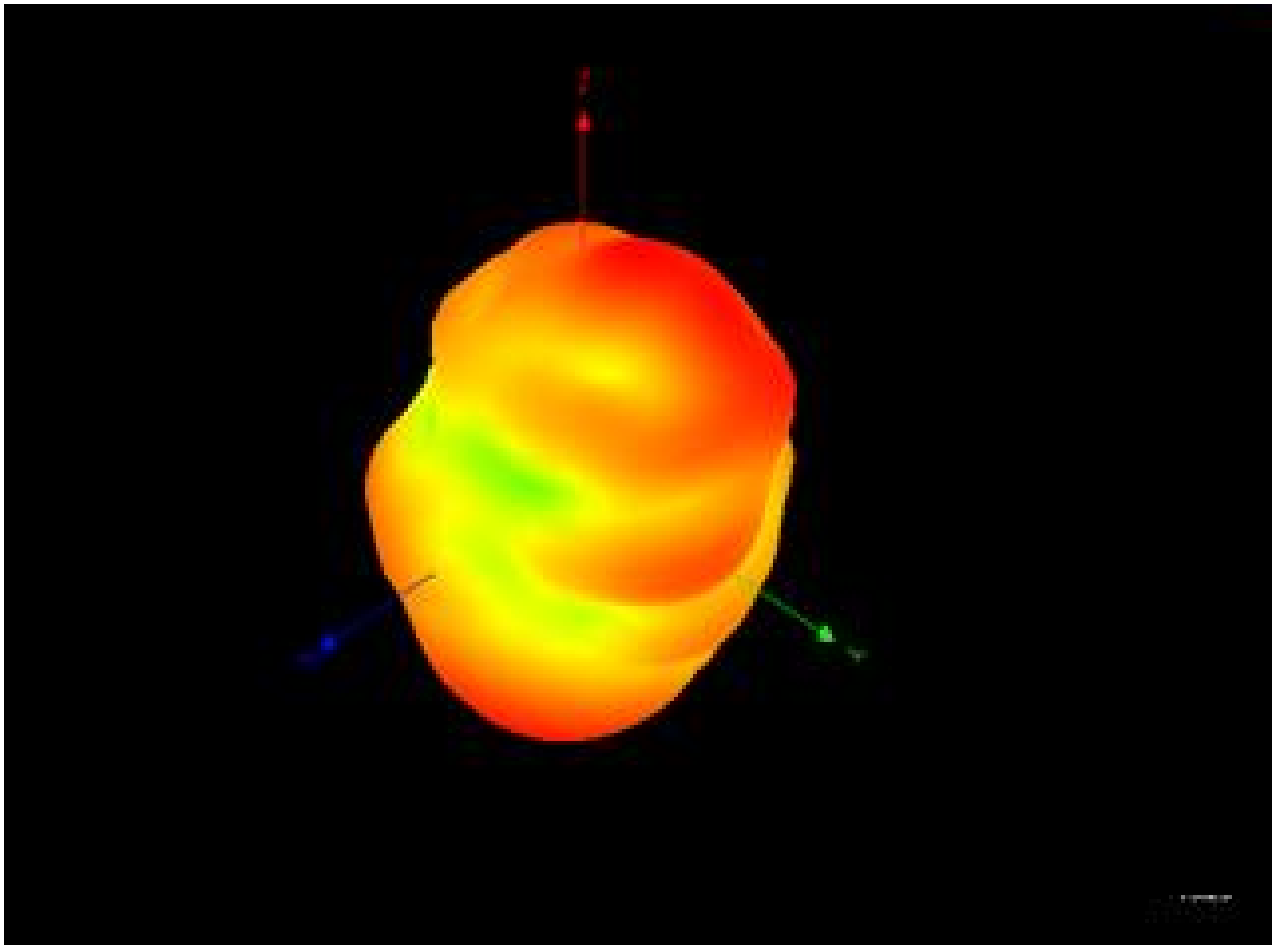
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	40.8	-3.9	1.5
5200	45.9	-3.4	1.3
5250	46.7	-3.3	1.2
5300	44.3	-3.5	-0.3
5350	43.9	-3.6	-0.2
5400	48.2	-3.2	0.2
5450	48.1	-3.2	0.3
5500	47.8	-3.2	0.7
5550	53.2	-2.7	1.1
5600	49.8	-3.0	0.8
5650	47.5	-3.2	1.0
5700	52.4	-2.8	1.6
5750	47.2	-3.3	1.6
5800	42.5	-3.7	1.8
5850	49.1	-3.1	2.3

Radiation Pattern For WiFi Antenna (2450MHz)

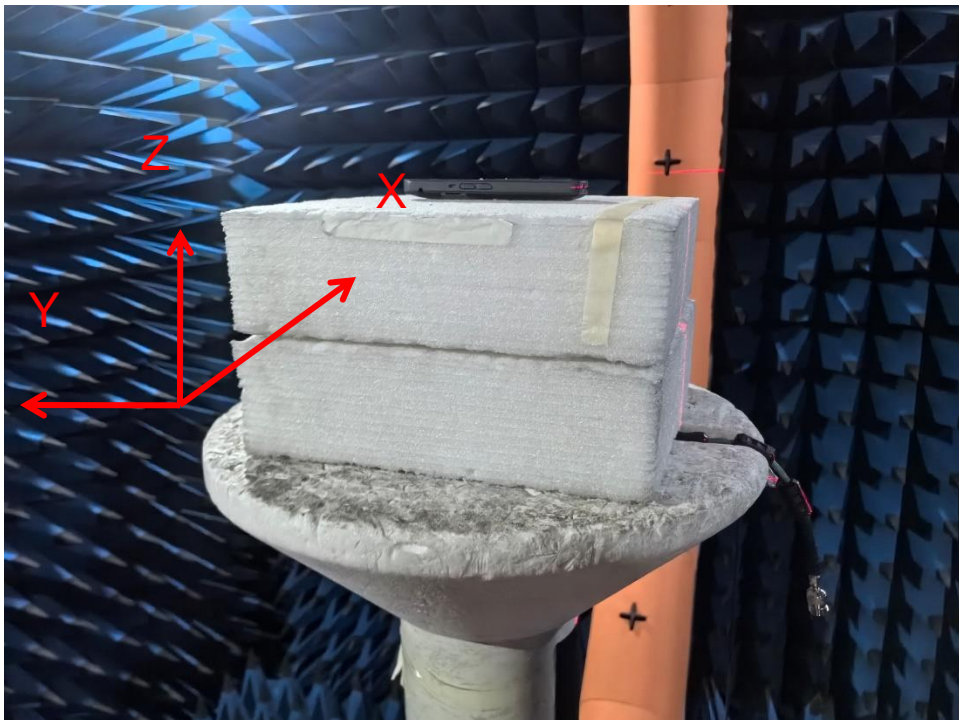
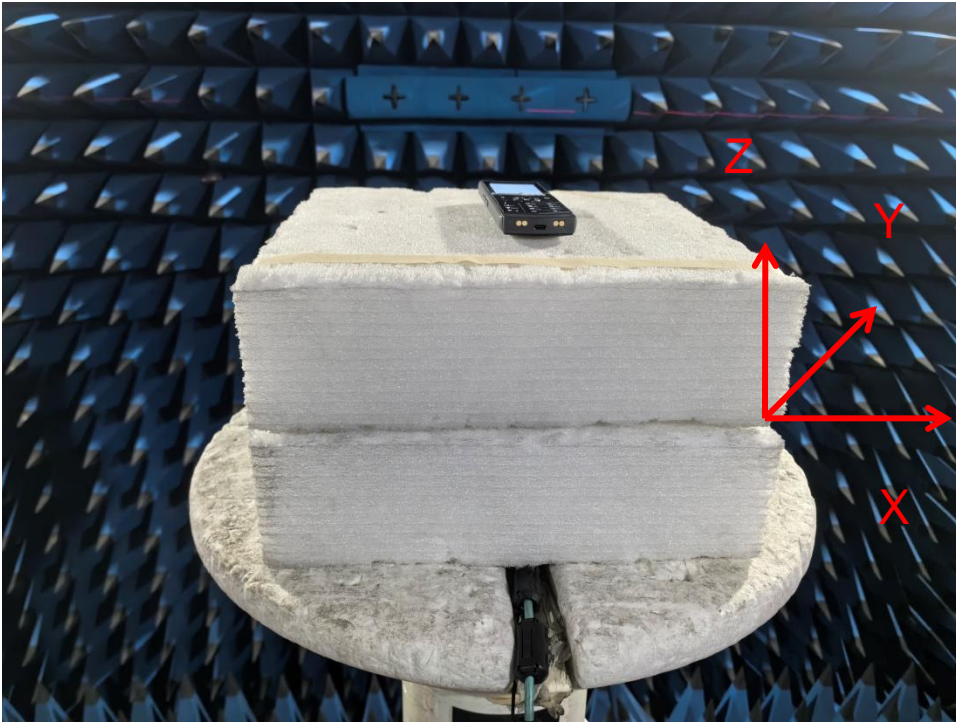




Radiation Pattern For WiFi Antenna (5500MHz)



Antenna Active Test





Active Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	12.6	15.2	11Mbps	-85.2	-87.8
	7		13.6	16.4		-86.1	-88.9
	13		13.5	16.0		-84.7	-87.1
WIFI 5G 802.11a	36	6Mbps	13.1	15.4	54Mbps	-72.7	-76.1
	100		14.6	16.7		-73.2	-77.4
	165		13.1	15.2		-72.5	-76.3



3. BT&WFI Antenna Test

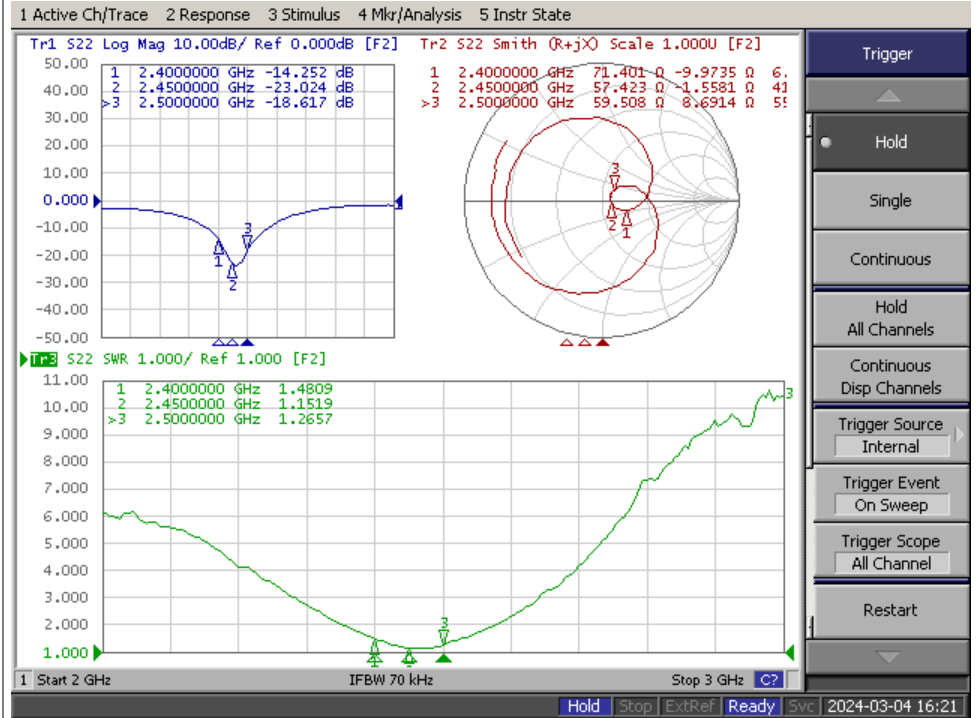
*BT&WFI
Antenna*





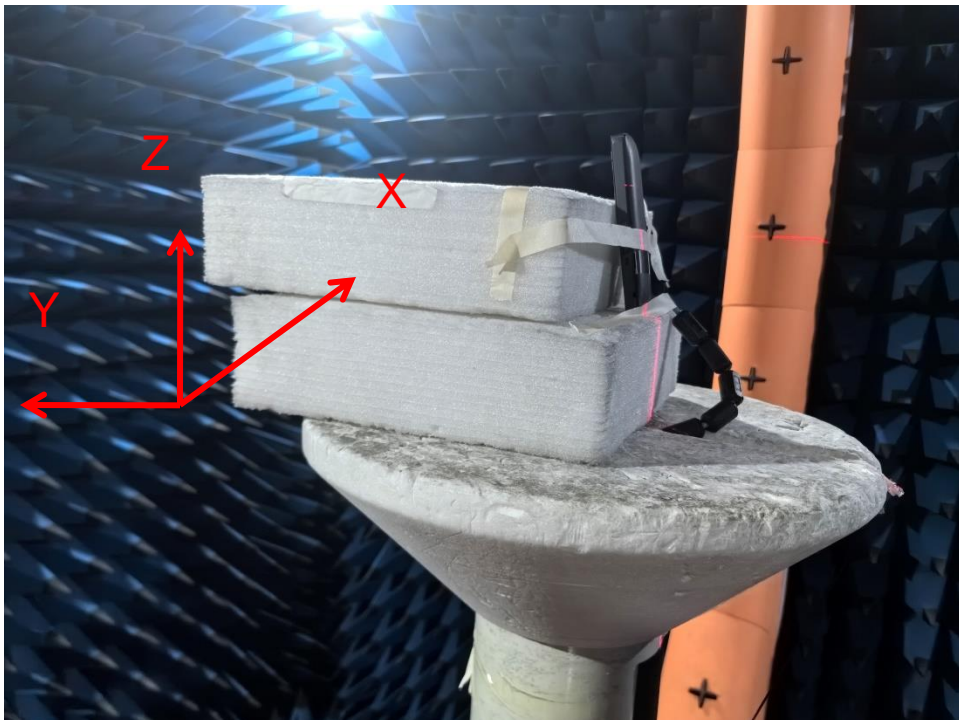
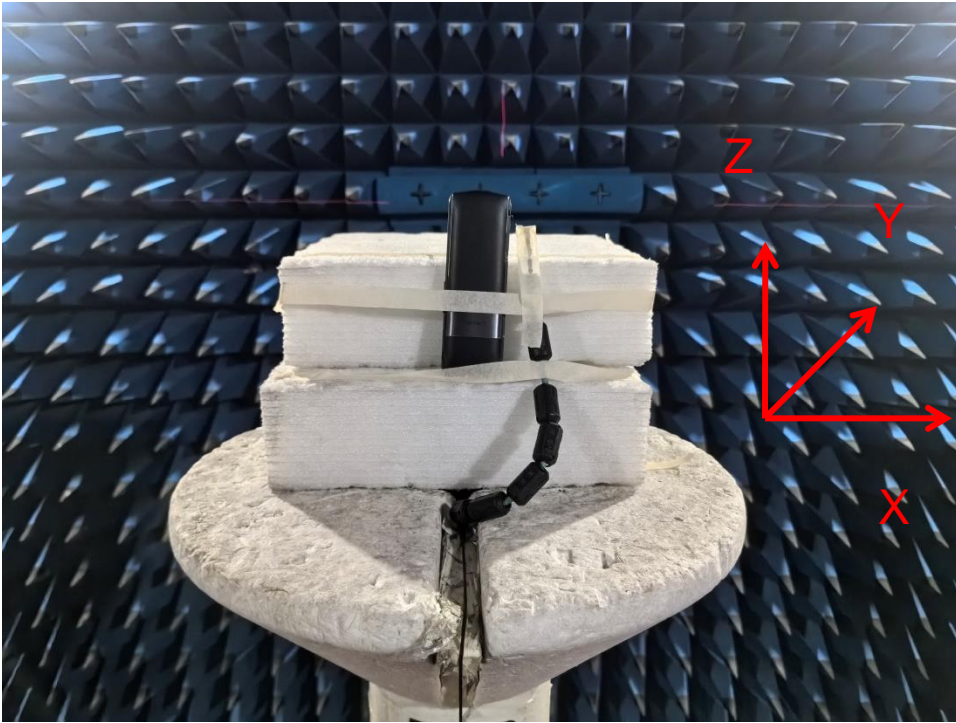
Antenna Performance Test

**Agilent
E5071B
S11
Parameter
Test //
BT
Antenna**





Antenna Passive Test





Passive Test For BT&WIFI Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.7	-2.6	2.7
2410	55.6	-2.6	2.7
2420	54.3	-2.7	2.6
2430	54.8	-2.6	2.8
2440	55.6	-2.6	2.7
2450	57.9	-2.4	3.0
2460	55.6	-2.6	2.8
2470	57.8	-2.4	2.9
2480	55.2	-2.6	2.7
2490	54.0	-2.7	2.8
2500	51.4	-2.9	2.4

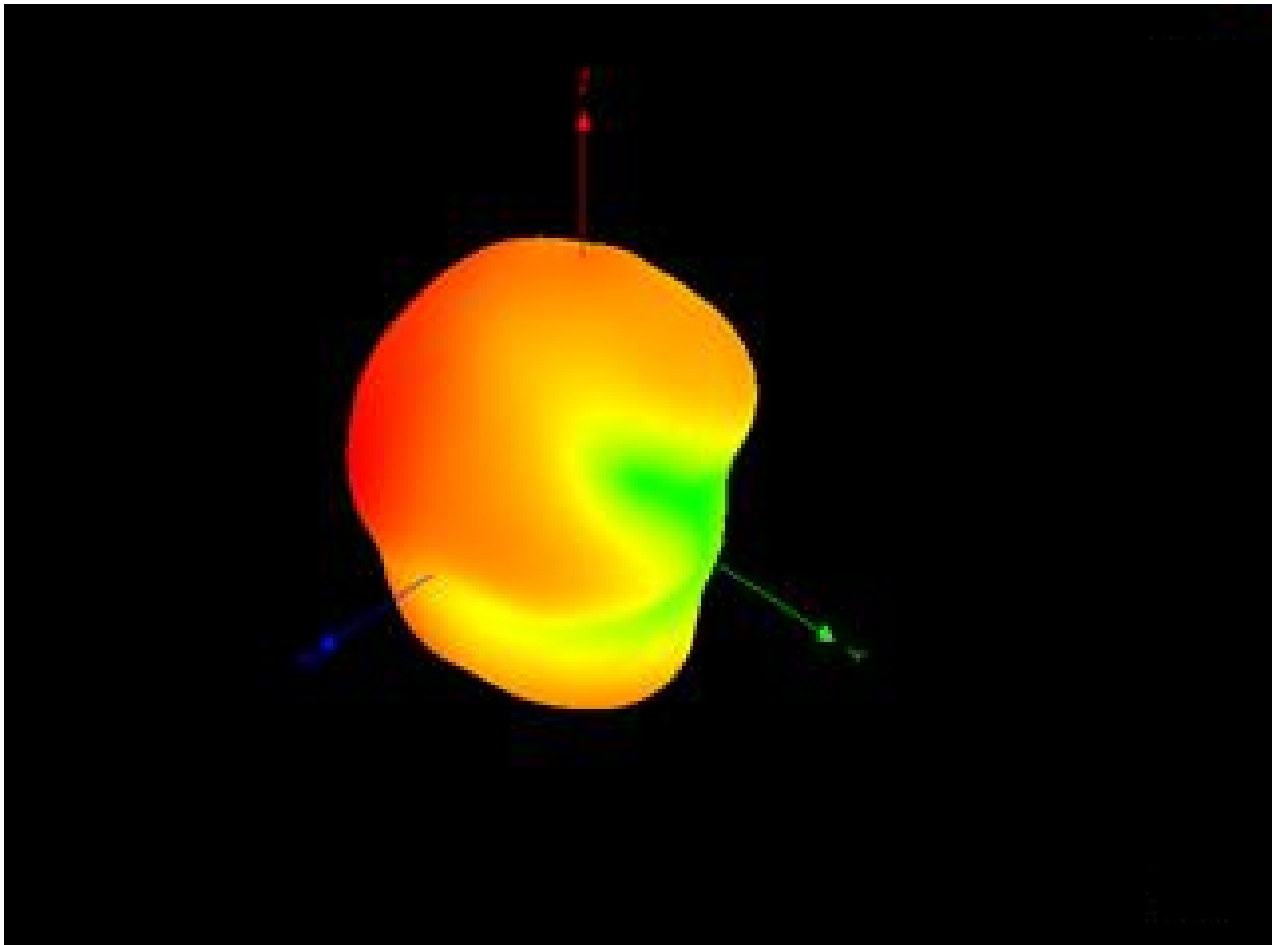


Passive Test For WiFi/BT Antenna (5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	40.8	-3.9	0.7
5200	45.9	-3.4	0.5
5250	46.7	-3.3	0.4
5300	44.3	-3.5	-0.3
5350	43.9	-3.6	-0.2
5400	48.2	-3.2	0.2
5450	48.1	-3.2	0.3
5500	47.8	-3.2	0.7
5550	53.2	-2.7	1.1
5600	49.8	-3.0	0.8
5650	47.5	-3.2	1.0
5700	52.4	-2.8	1.6
5750	47.2	-3.3	1.6
5800	42.5	-3.7	1.8
5850	49.1	-3.1	2.5

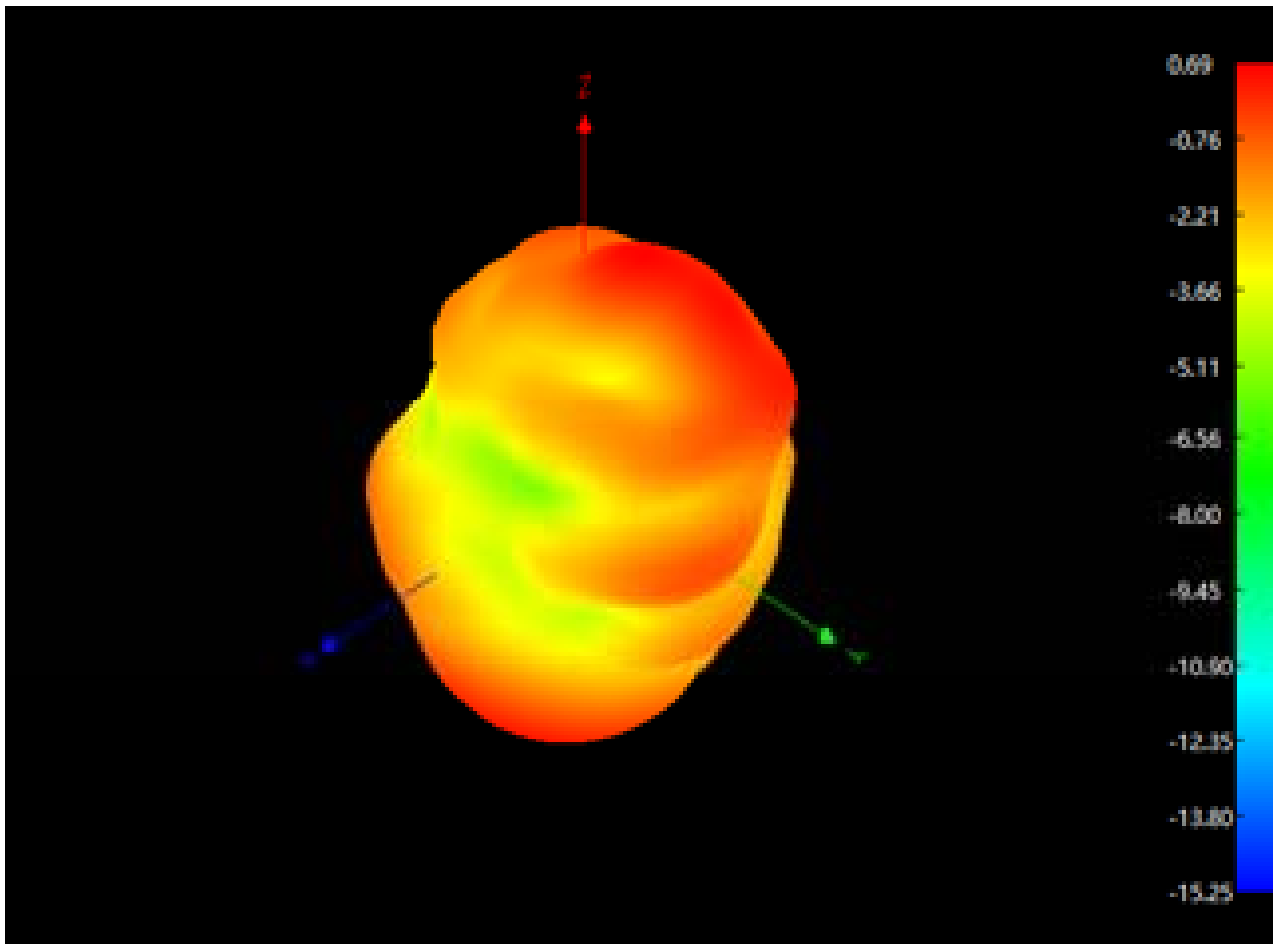


Radiation Pattern For BT &WIFI Antenna (2450MHz)





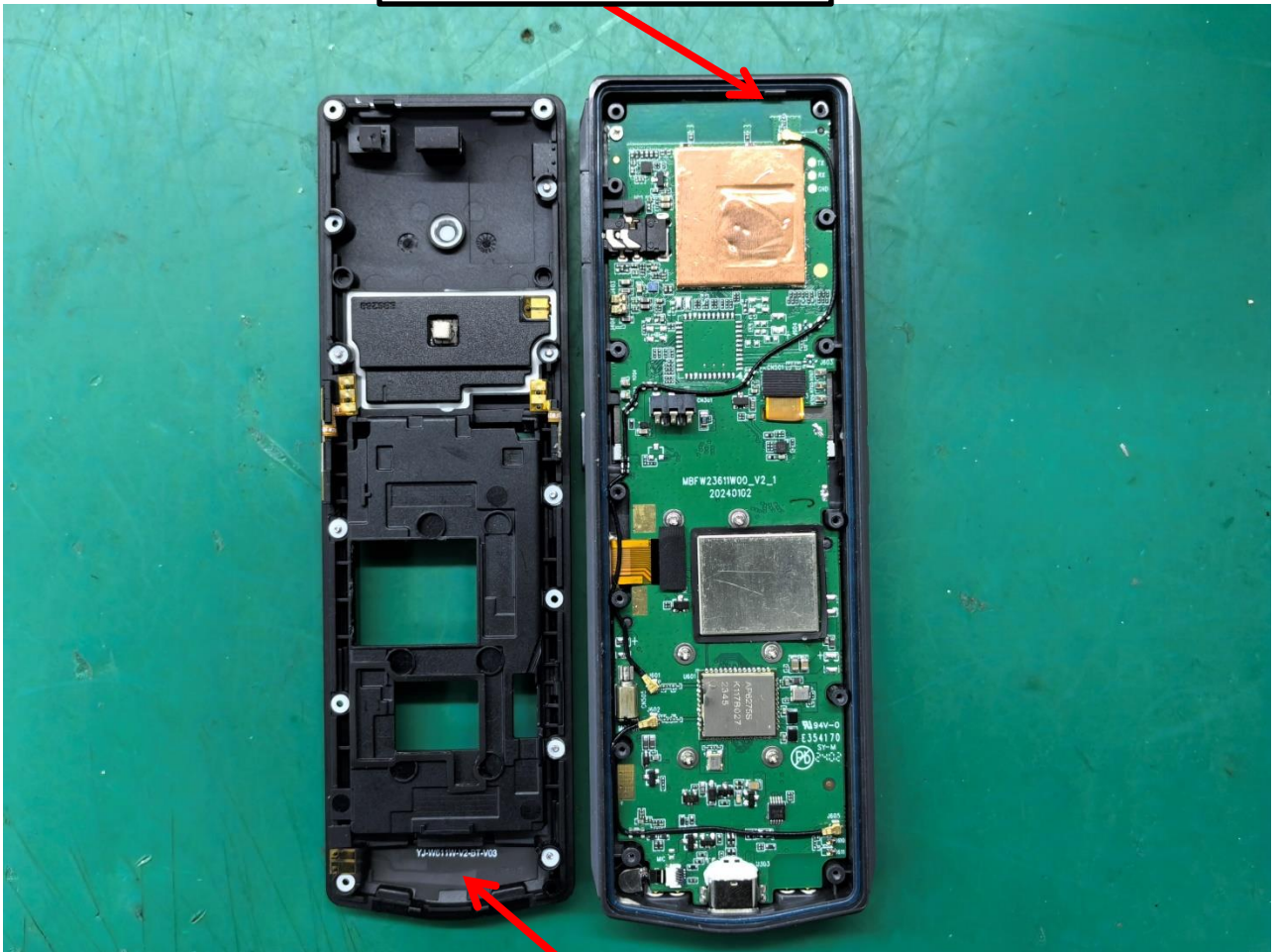
Radiation Pattern For WiFi/BT Antenna (5500MHz)





4. Assembly Picture

WiFi Antenna



WiFi BT Antenna