



福州市瀚宇正达电子有限公司

Word Easy Electronics Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 2025/08/05

Date

编号 25080501

File No

版本 1.0

Revision

客户 星网

CUSTOMER: _____

客户料号 E12

CUSTOMER NO: _____

品名 WIFI Antenna L=45mm MHF

PART NAME: _____

供方料号 WE007N.F0204.V01

SUPPLIER NO: _____

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

工程专用章
Hunter

Luo

Liu

WE-RD-F01-A



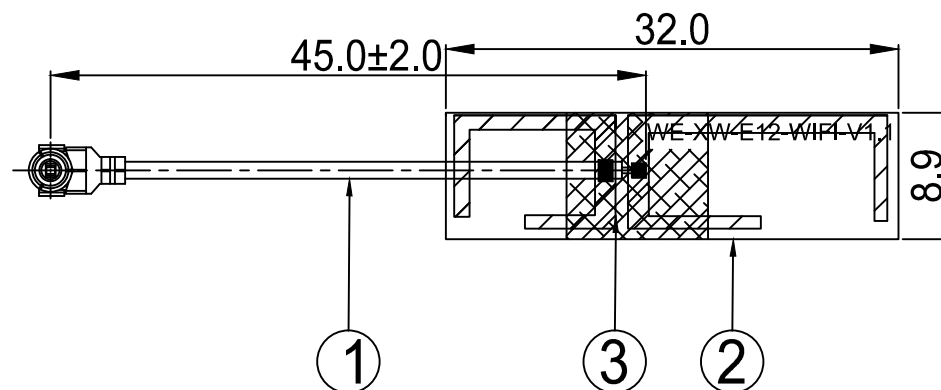
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12	-	-	-

RoHS

Compatible

REV.	DESCRIPTION	DATE
△	首次发行	2025.08.05



4	Mini Connector	Au Plated	CU	MET0XD1.V01	1
3	Acetate Cloth	10.0*8.0MM	Acetate Cloth	FAB0002.V01	1
2	FPCB	32.0*8.9MM	FPCB	FPC0483.V01	1
1	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	CAB0113.V02	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

		福州市瀚宇正达电子有限公司		Tel :0591-22628085	
		World Easy Electronics Co.,Ltd.		Fax:0591-22627656	
PART NAME: WIFI Antenna L=45mm MHF					
PART NO.: WE007N.F0204.V01				DATE: 2025-08-05	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
		周红涛	UNITS: mm	X.X ±0.50	
			SCALE: 1/1	X.XX±0.15	
			REVISION: A	X° ±3°	



天线规格

Antenna Specification

Electrical Properties

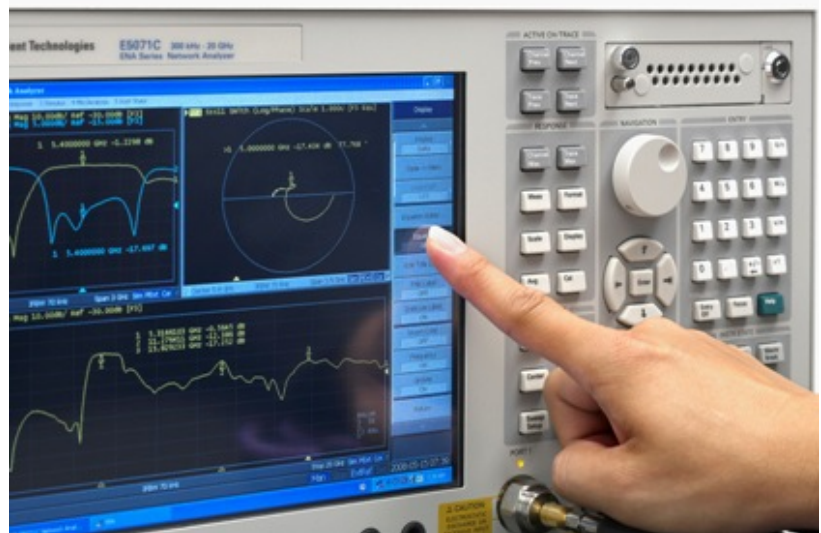
Frequency	2400-2500MHz 5150~5850MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 2.0
Return Loss	≤ -10
Radiation	Omni-directional
Gain (Peak)	3.5dBi(MAX)
Polarization	Linear
Connector	None

Physical Properties

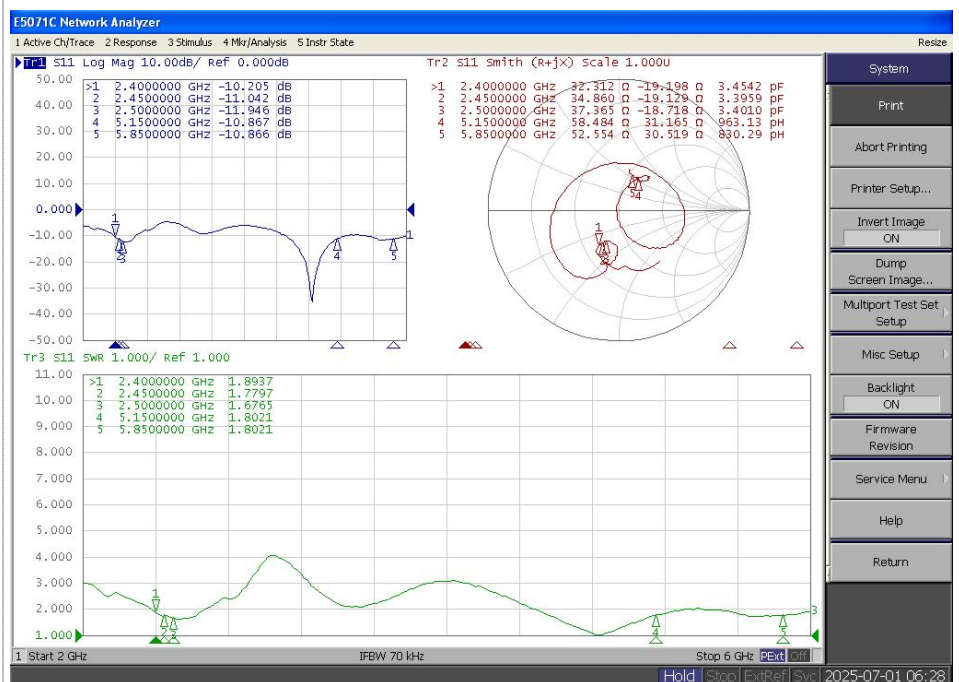
Antenna Material	FPC
Cable Type	O.D.1.13//L=45mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray



Agilent E5071C

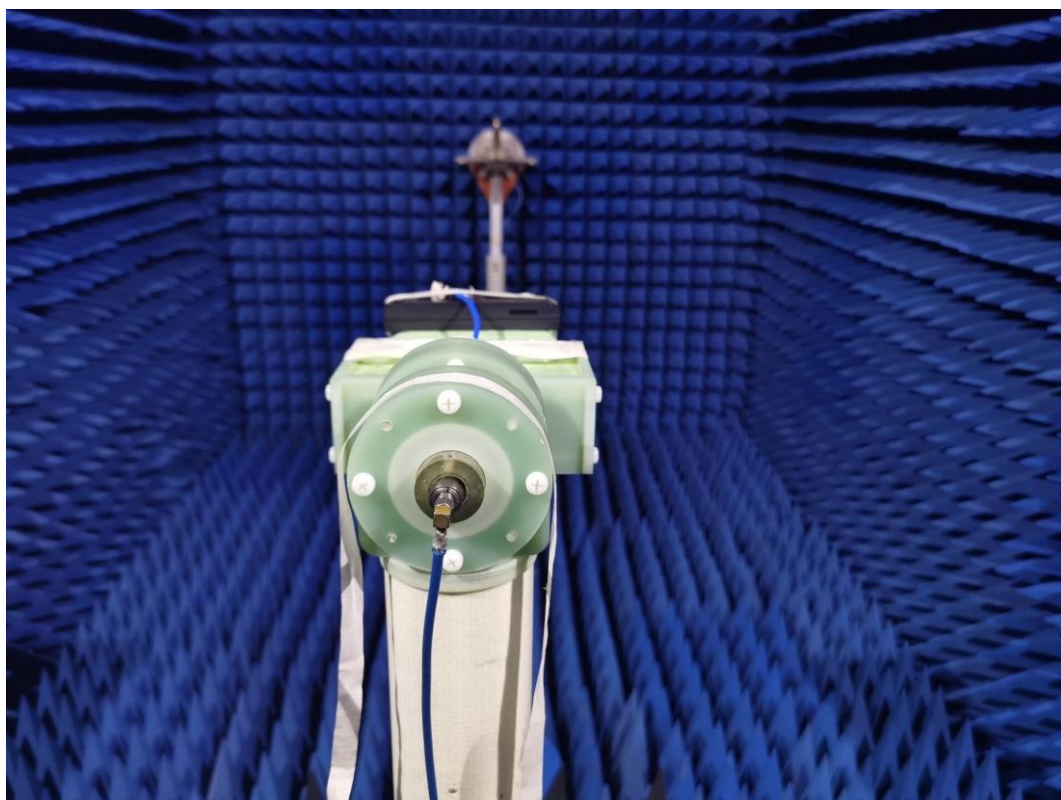


S Parameter Test // WIFI





Antenna Passive Test





Passive Test For WiFi (2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.7	-3.0	3.2
2410	52.8	-2.8	3.3
2420	52.1	-2.8	3.0
2430	51.6	-2.9	2.5
2440	51.6	-2.9	2.7
2450	53.1	-2.8	2.8
2460	56.2	-2.5	3.1
2470	57.3	-2.4	2.9
2480	59.4	-2.3	3.0
2490	58.9	-2.3	3.3
2500	58.5	-2.3	3.5

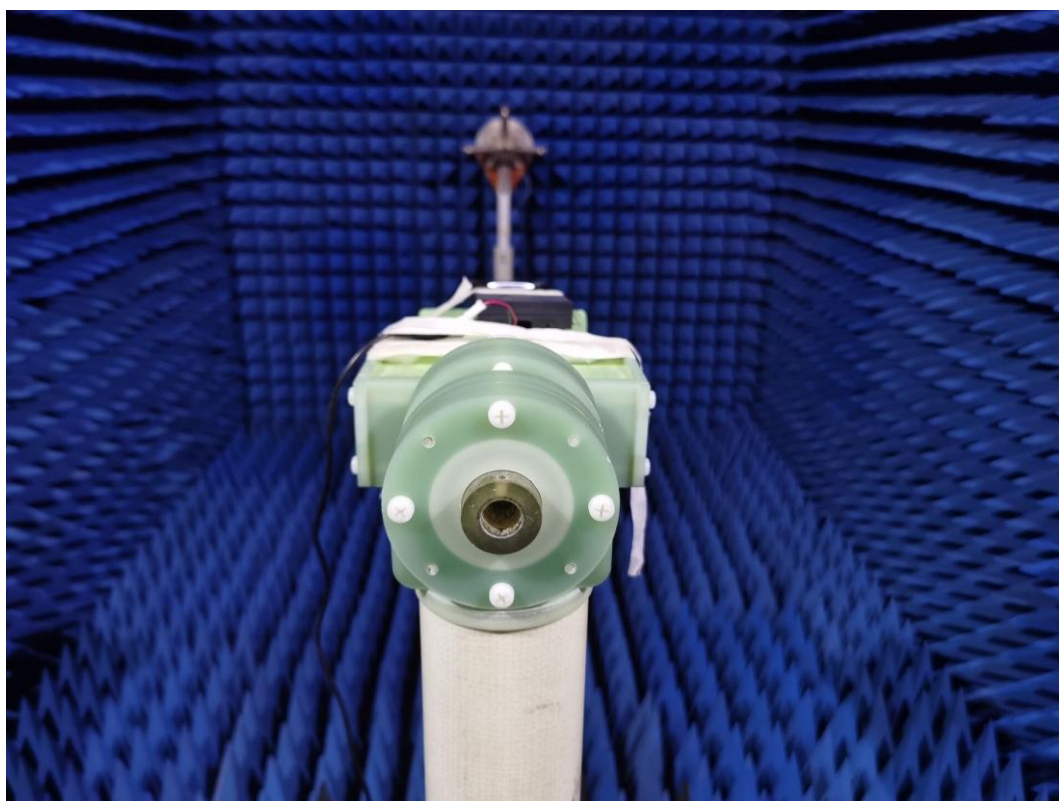
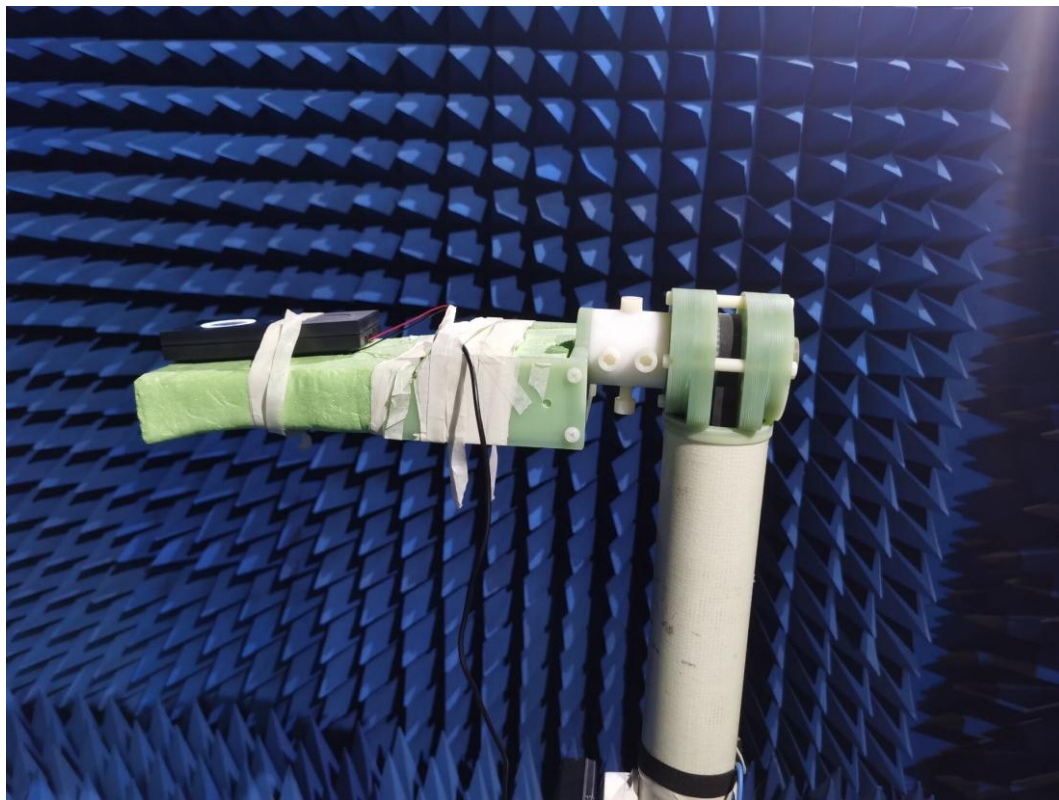


Passive Test For WiFi (5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	27.8	-5.6	-0.4
5200	22.0	-6.6	-1.9
5250	22.0	-6.6	-1.7
5300	23.7	-6.3	-1.4
5350	30.7	-5.1	0.1
5400	31.0	-5.1	-0.3
5450	27.3	-5.6	-1.2
5500	28.3	-5.5	-0.6
5550	36.3	-4.4	0.5
5600	32.0	-5.0	0.1
5650	36.1	-4.4	1.1
5700	40.8	-3.9	1.5
5750	49.5	-3.1	2.2
5800	47.3	-3.3	2.2
5850	41.6	-3.8	1.7



Antenna Active Test





OTA Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	16.7	21.0	11Mbps	-84.3	-88.3
	6		16.8	21.2		-87.3	-91.4
	13		17.2	21.8		-84.3	-88.8
WIFI 2.4G 802.11g	1	6Mbps	16.6	19.5	54Mbps	-72.1	-73.7
	6		17.3	20.5		-74.6	-77.1
	13		16.6	20.2		-73.8	-76.2

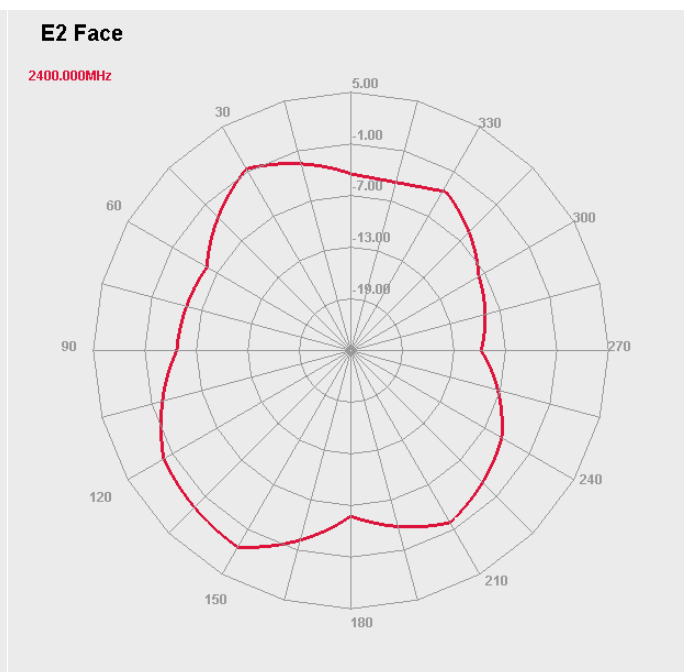
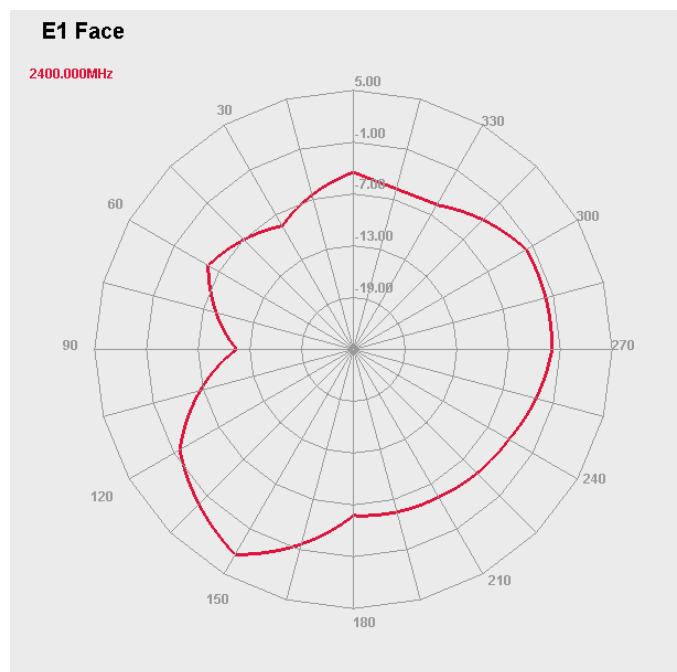
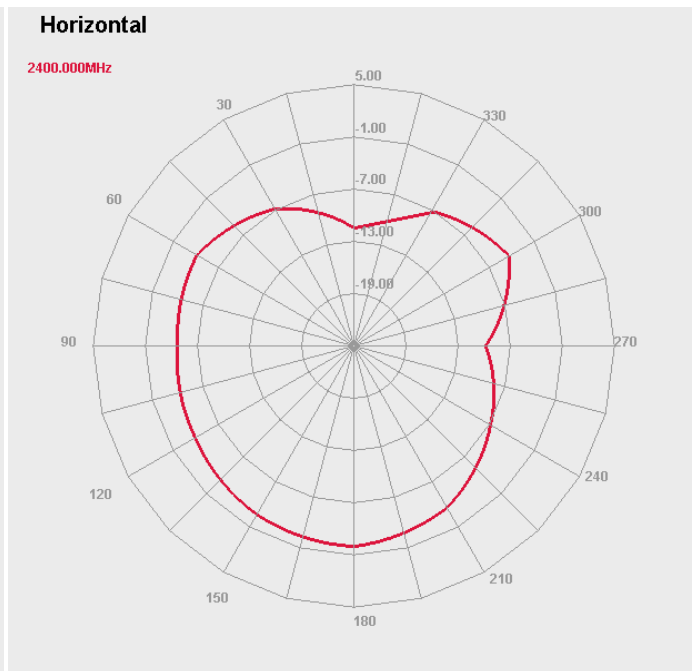
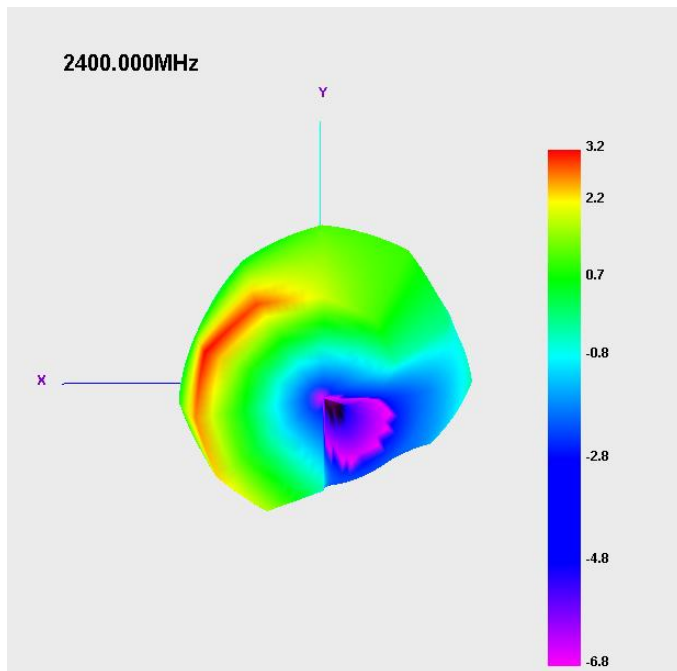


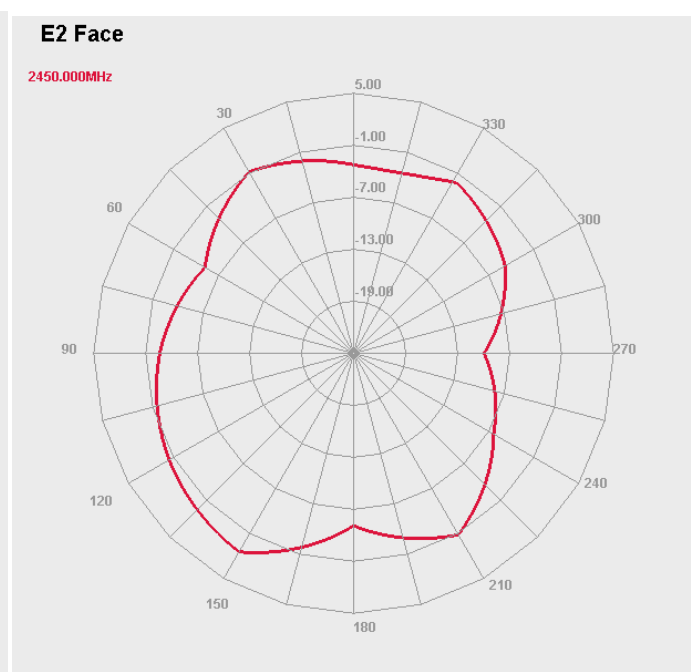
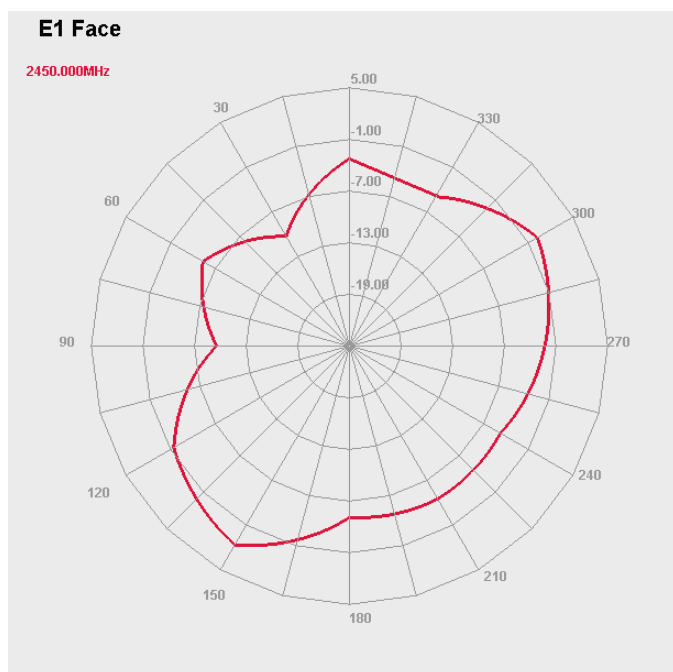
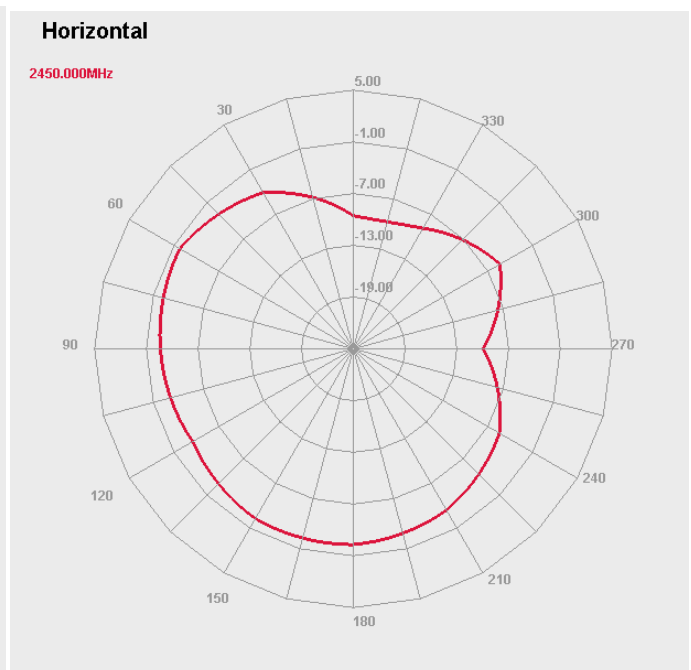
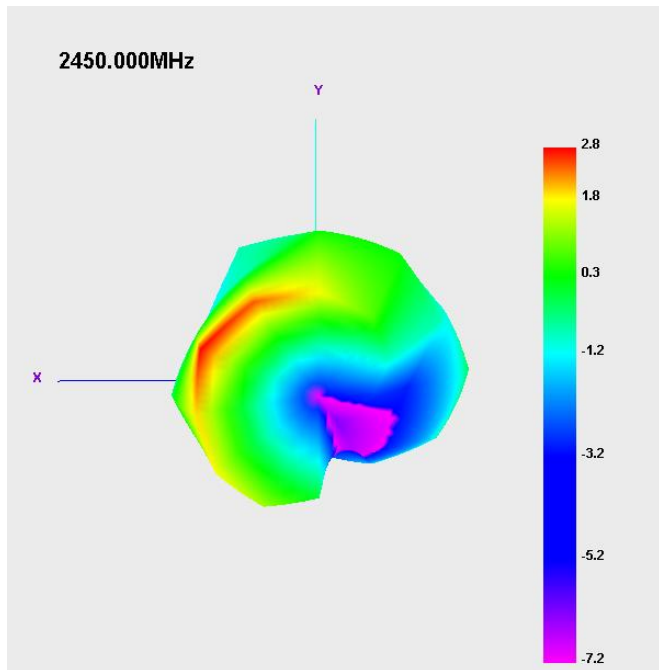
OTA Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11n	1	MCS7	16.4	19.4	MCS7	-69.1	-70.8
	6		17.7	20.9		-70.7	-73.2
	13		16.6	20.2		-69.9	-72.2
WIFI 5G 802.11a	36	6Mbps	7.3	13.6	54Mbps	-65.3	-70.9
	64		10.2	15.9		-65.7	-69.7
	161		8.5	13.1		-68.0	-72.1



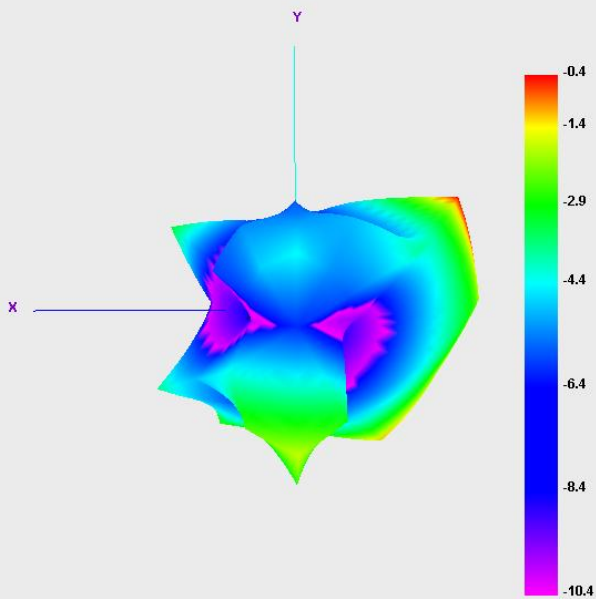
Antenna Radiation Pattern





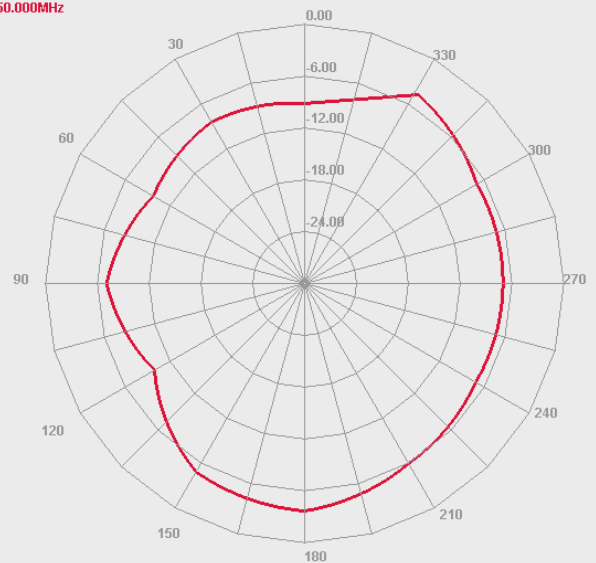


5150.000MHz



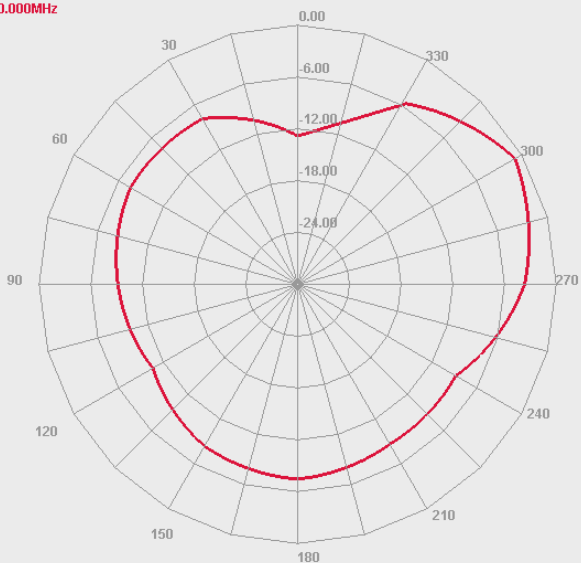
Horizontal

5150.000MHz



E1 Face

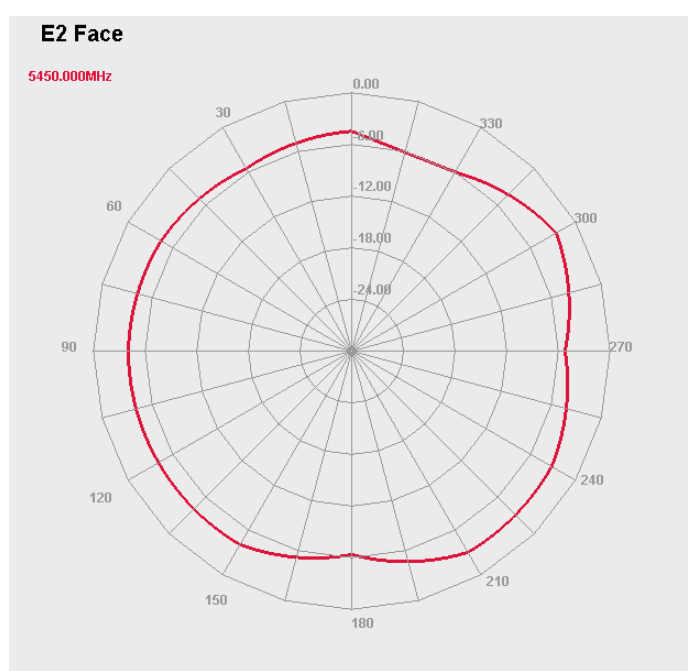
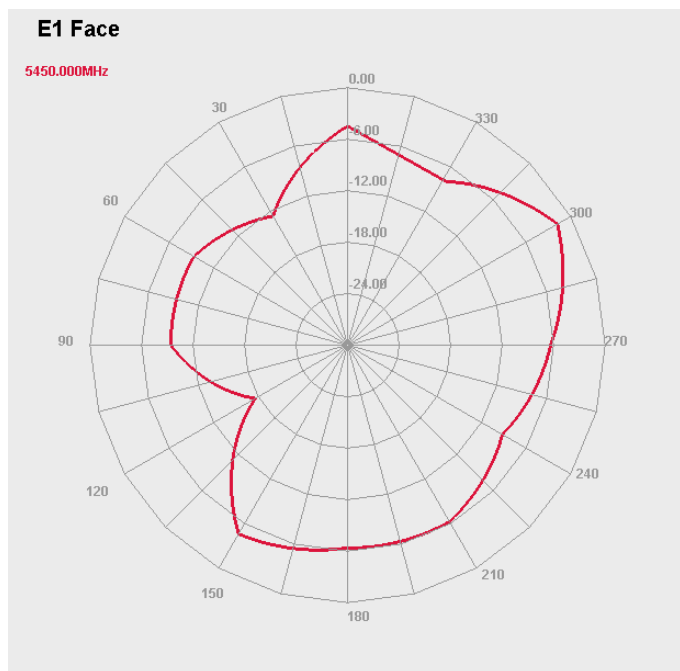
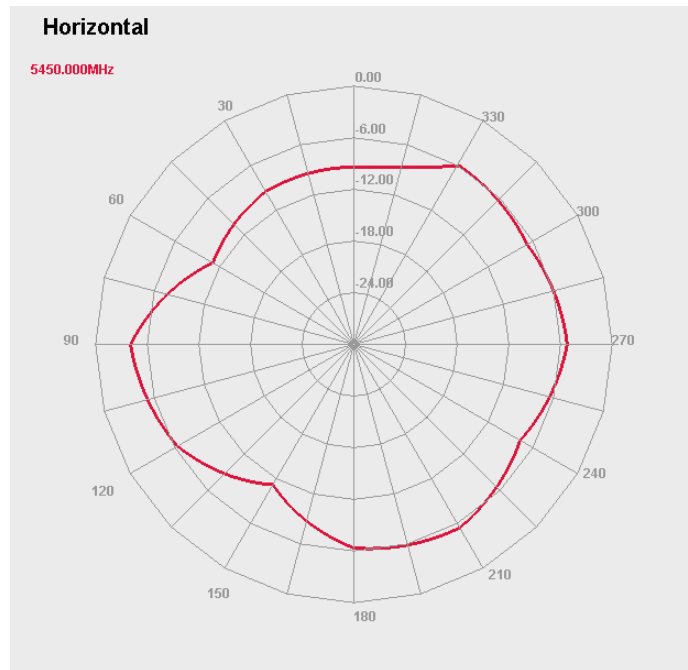
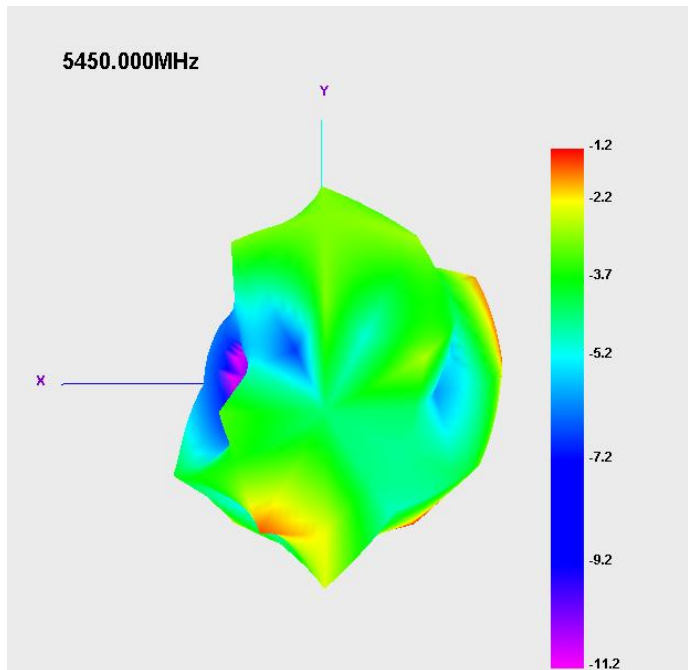
5150.000MHz

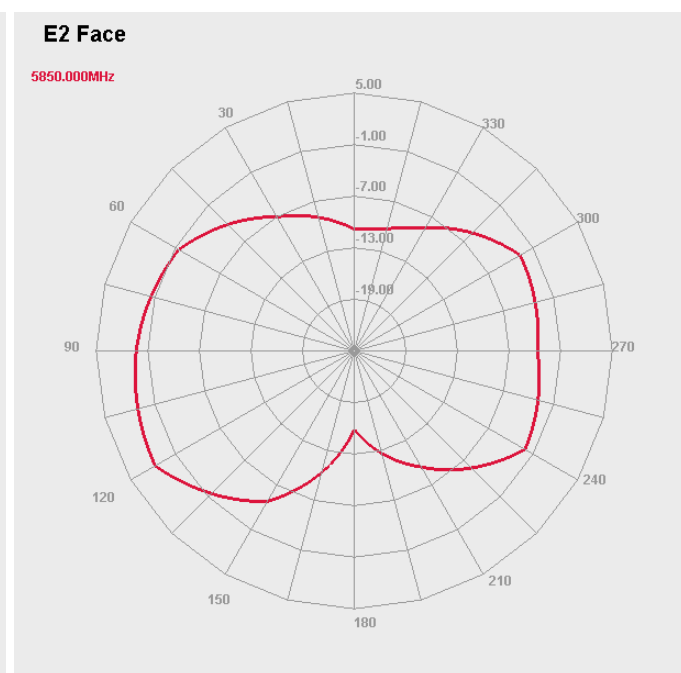
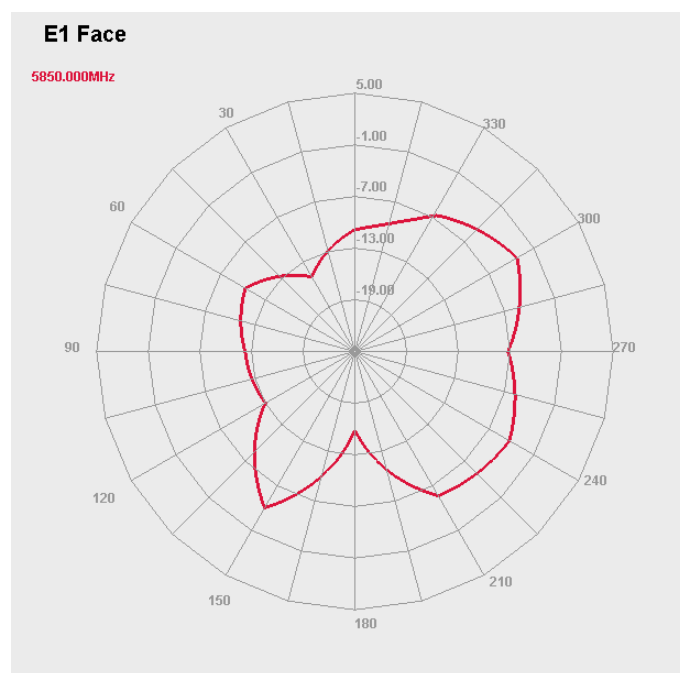
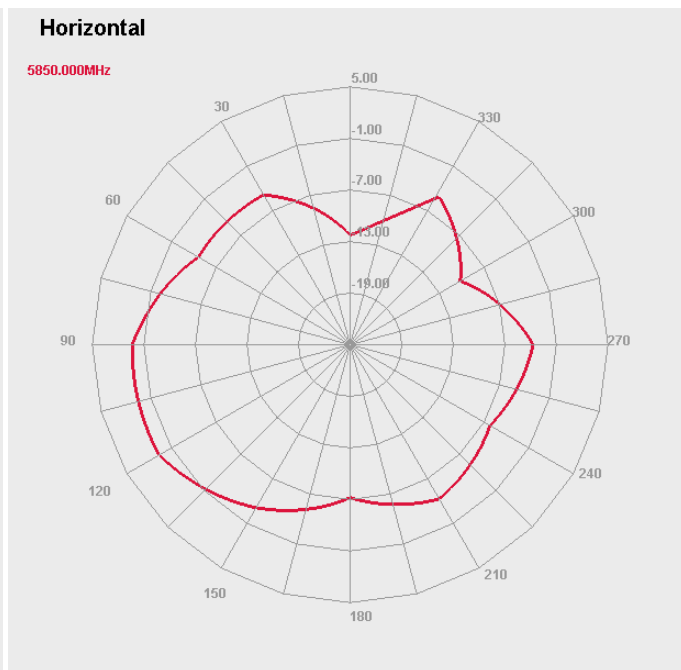
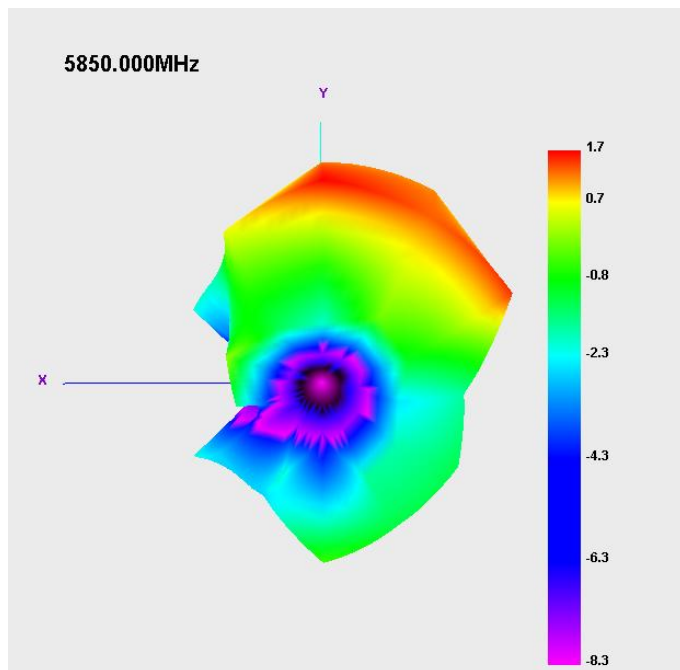


E2 Face

5150.000MHz

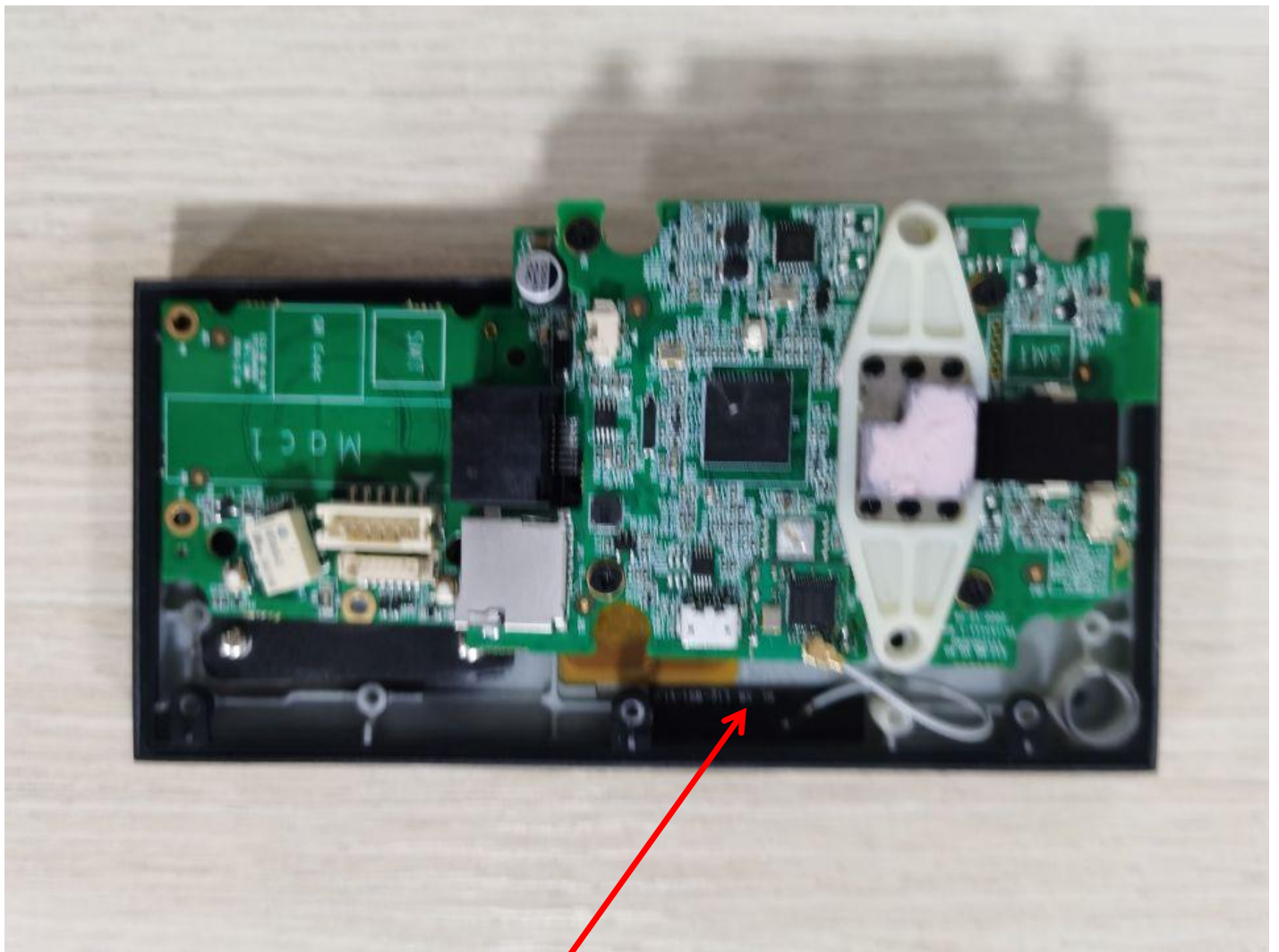








Assembly Drawing



WIFI Antenna