

Product Specifications

File No. : CGRF20230014

BLUETOOTH INTERNAL ANTENNA

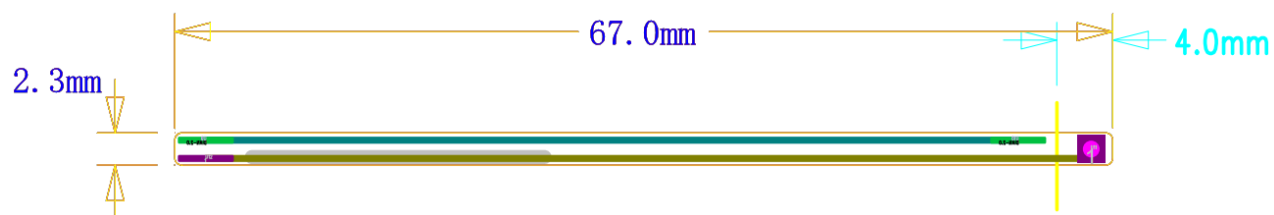


Design	Audit	Approved
Yang	Yu	Qiu
Chenglin	Jianhua	Hengshou
2023-12-18	2023-12-18	2023-12-20

1、Product parameter :

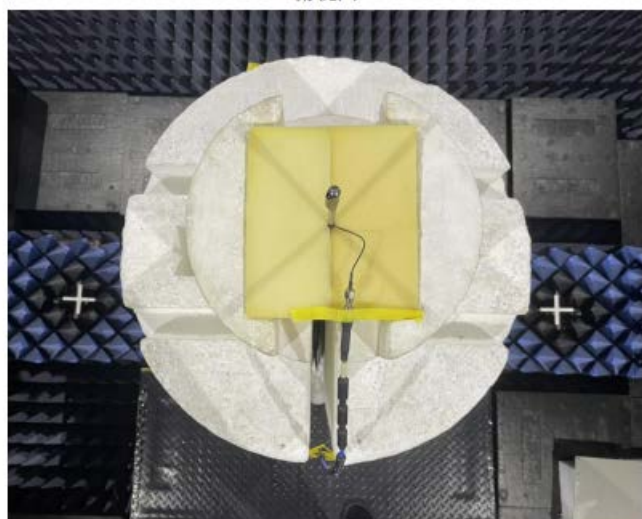
Item	Specification
Model	HF_PCB_ANT_1.0
Frequency range	2400 ~ 2480MHz
Maximum gain	0.32dBi
Impedance	50Ω
Antenna interface	Soldering
Board material	PCBHigh-frequency PCB
Board size	W2.3mm*L67mm*T0.3mm
Operating temp.	-60°C~300°C
Manufacturer	Shenzhen Weka Circuit Co., Ltd.
Add.	3rd floor, Building D, 3rd Industrial Zone, Songgang Street, Bao'an District, Shenzhen City.

2、Engineering drawing

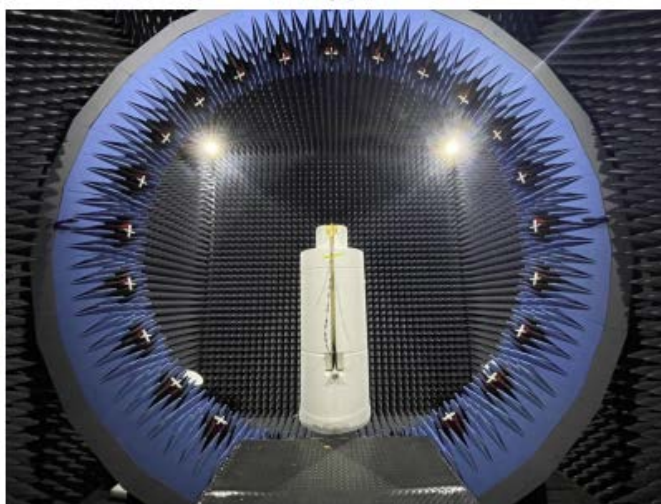


3、test standard

俯视图



正视图



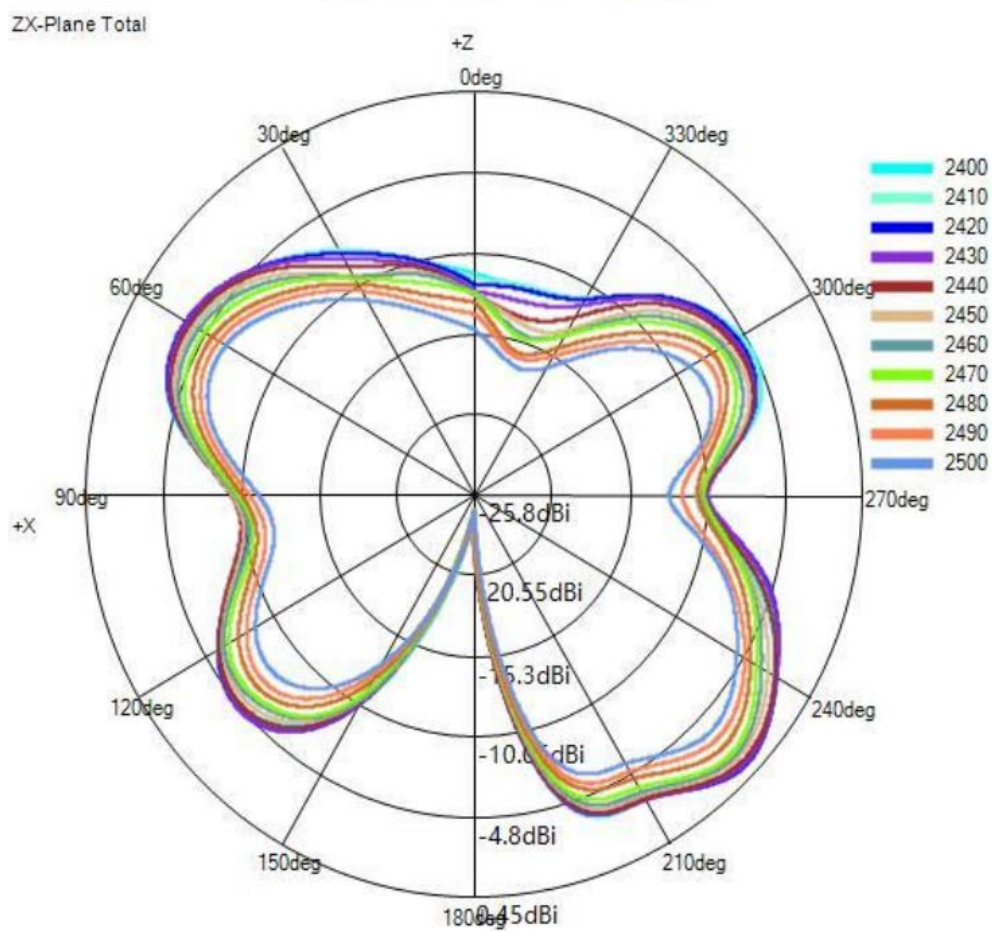
对象名称	参数名称	方法名称	依据标准号
移动通信天线	天线增益	移动通信天线通用技术规范	GB/T 9410-2008
	辐射方向图		
	电压驻波比		
天线	辐射效率	IEEE 天线测试标准流程	ANSI/IEEE Std 149-1979
	增益与方向性		

4、test data

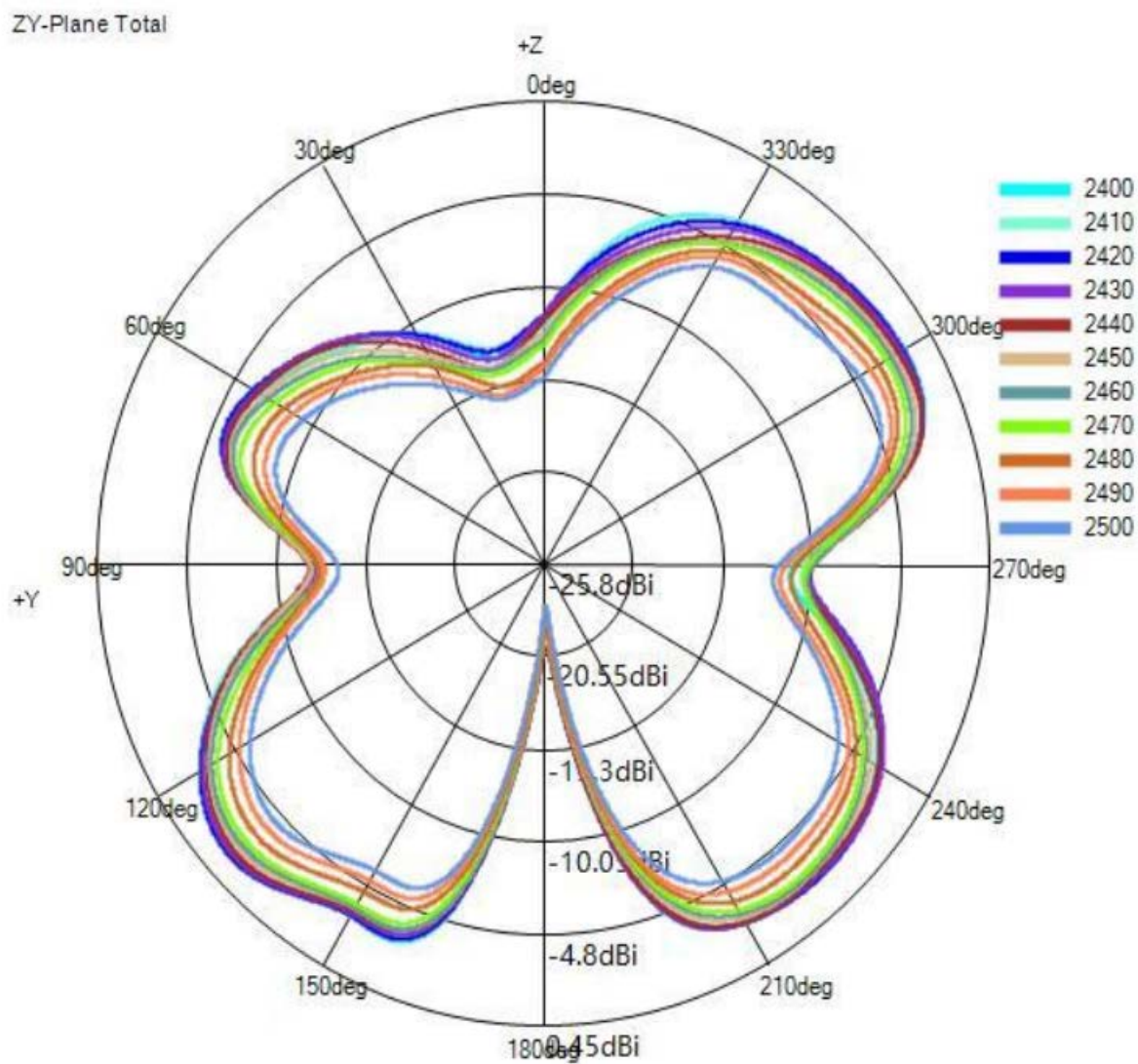
频率/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
最大增益/dBi	0.06	0.23	0.32	0.23	0.00	-0.31	-0.37	-0.61	-1.40	-2.06	-2.68
效率/%	32.92	33.72	33.92	33.26	32.07	29.58	28.17	26.16	22.76	19.93	17.21

5、directional diagram

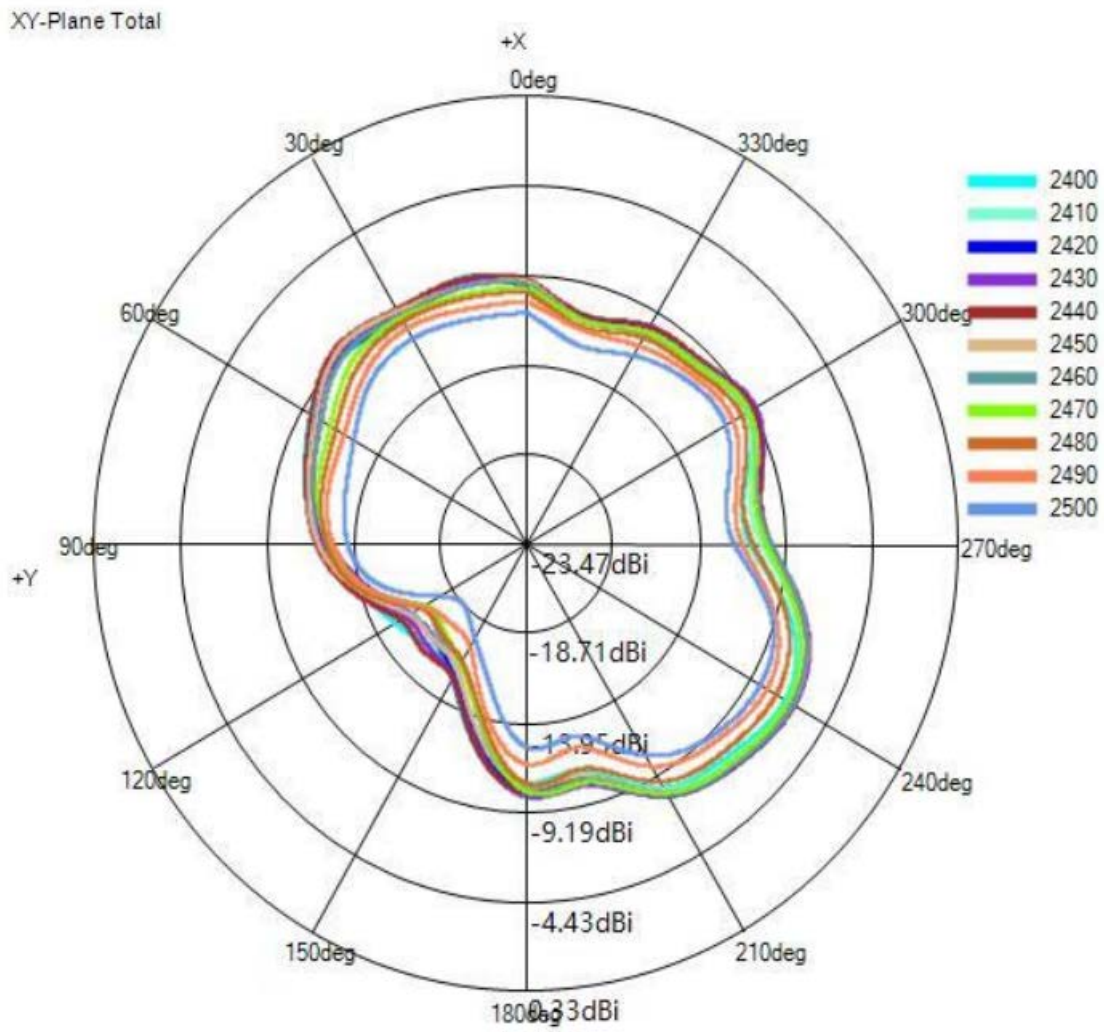
(1) X-Z 面(单位: dBi):



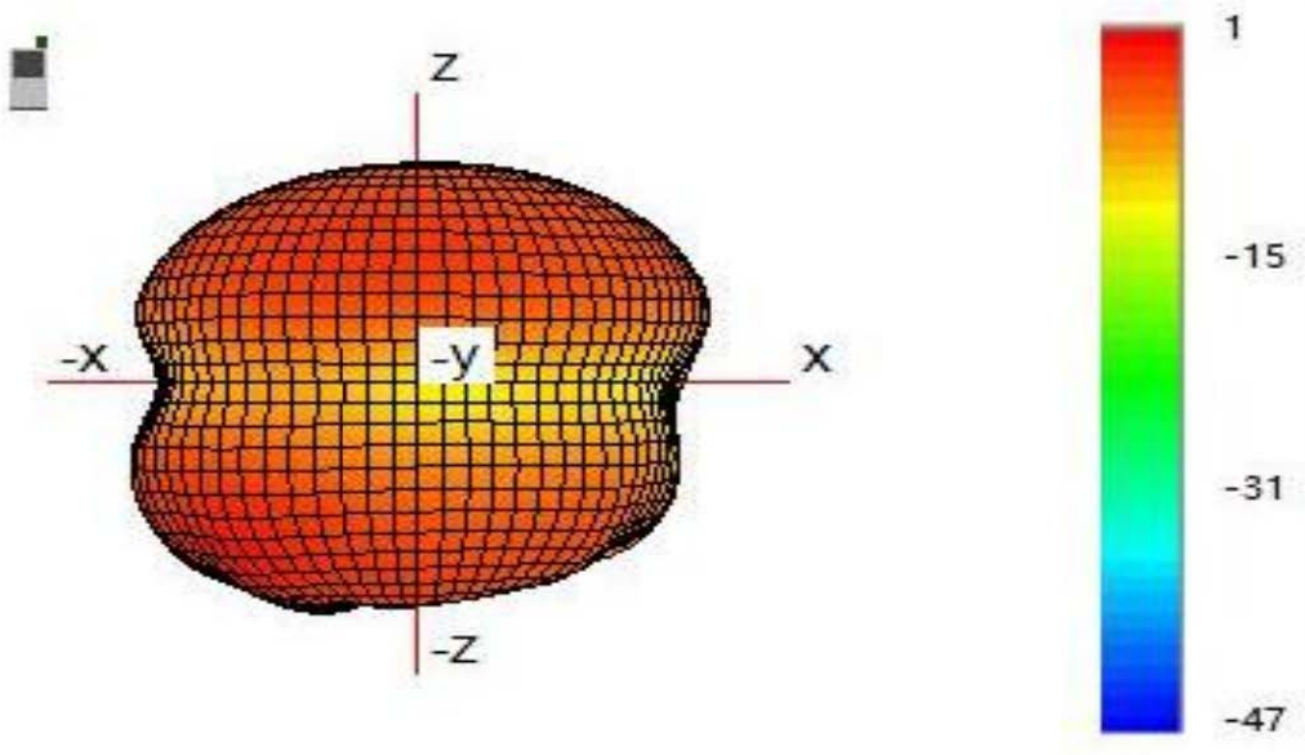
(2) Y-Z 面(单位: dBi):



(3) X-Y 面(单位: dBi):



(4) 2420MHz 的 3D 方向图(单位： dBi):



6、Change record

Version	Change date	Change content	Editor	Approved
—	2023-12-20	First edition	Yang Chenglin	Qiu Hengshou