

## **Antenna Gain Patterns**

## **Antenna Details**

**Antenna Type : PCB**

**Antenna model :210000**

**Frequency Bands Supported :**

**ANT1:BT / BLE /Thread 2.4GHZ**

**ANT2:WIFI2.4GHZ&WIFI5GHz**

**Antenna Manufacturer:GTK**

## BT / BLE /Thread Antenna Efficiency and Peak Gain

**Peak ANT Gain : 4 dBi**

Freq(MHz)	Efficiency_dB	Gain
2400	-3.7206	2.68249
2410	-3.3282	3.07751
2420	-3.0723	3.39773
2430	-2.8626	3.57385
2440	-2.6803	3.78443
2450	-2.5189	4.05851
2460	-2.4476	4.07793
2470	-2.443	3.98667
2480	-2.4791	3.86004

## WIFI Antenna Efficiency and Peak Gain

**2.4GHz Peak Gain : 0.7dBi**

**5GHz Peak Gain : 6.1dBi**

Freq(MHz)	Efficiency_dB	Gain
2400	-3.51264	-0.11
2410	-3.34084	0.0694
2420	-3.21323	0.27527
2430	-3.06086	0.30864
2440	-2.977	0.38616
2450	-2.83626	0.5435
2460	-2.77203	0.65923
2470	-2.69244	0.72534
2480	-2.65447	0.7473

Freq(MHz)	Efficiency_dB	Gain
5180	-1.56872	4.2145
5200	-1.58097	4.18987
5220	-1.47576	4.23662
5240	-1.58814	4.05647
5260	-1.64271	3.91565
5280	-1.61632	3.8658
5300	-1.76828	3.65973
5320	-1.61136	3.86772
5340	-1.63917	3.75672
5360	-1.46049	3.90365
5380	-1.19152	4.13302
5400	-0.96271	4.27296
5420	-0.8162	4.38741
5440	-0.97614	4.49848
5460	-1.02661	4.72775
5480	-1.30409	4.76667
5500	-1.32469	5.00847

Freq(MHz)	Efficiency_dB	Gain
5520	-1.2464	5.26665
5540	-1.1923	5.54032
5560	-1.0028	5.88268
5580	-1.0301	5.94411
5600	-0.9858	5.96824
5620	-0.9746	5.94843
5640	-0.9815	5.8916
5660	-0.8417	6.00679
5680	-0.7513	6.10046
5700	-1.0275	5.8945
5720	-0.814	6.05767
5740	-0.7595	6.11863
5760	-1.1323	5.66998
5780	-1.0833	5.56047
5800	-1.4033	5.08691
5820	-1.2583	5.07915
5840	-1.1934	5.22672
5860	-1.6277	4.86185

Antenna Manufacture

GTK

Address:No.402 guilin Road,XuHui District Shanghai,200233 ,P.R.China

Antenna test equipment

Vector network analyzer Keysight E5071C

Microwave chamber ETS 8923

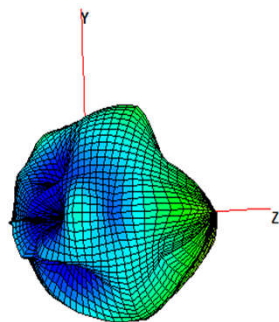
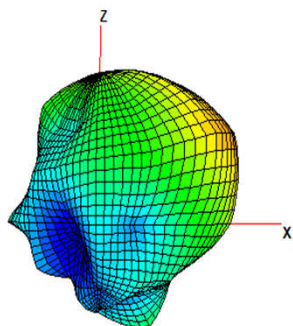
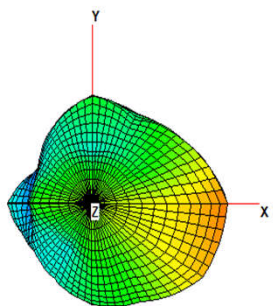
Calibration date:2024/11/10

Due data:2025/11/10

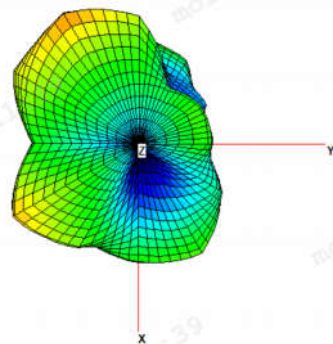
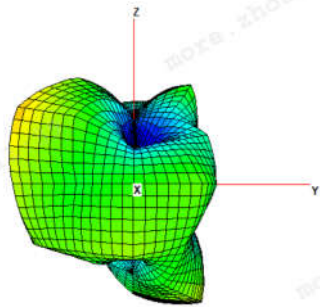
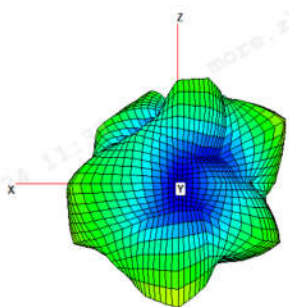
Antenna test software

EMQuest™

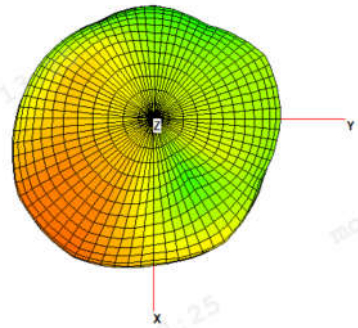
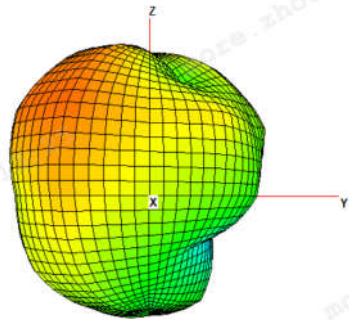
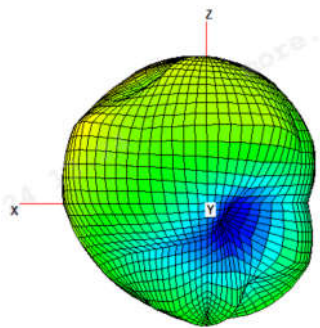
## ANT1:BT / BLE /Thread



## ANT2:WIFI2.4G



**ANT2:WIFI5G**



Test Dates	May-2025
Test Engineer	More Zhou