

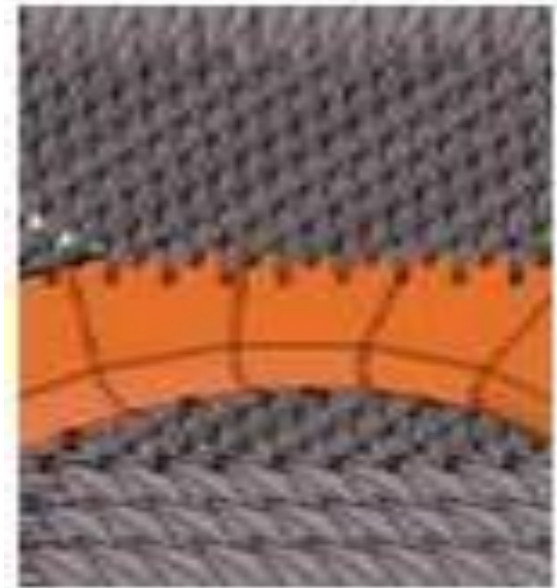
RayNeo X3 Pro

BT & Wi-Fi 2G/5G FPC Antenna

WebCom Communication (KunShan) Corporation

**No.6,8 Central Avenue , Comprehensive Free Trade Zone , Kunshan City, Jiangsu
Province , P.R.C**

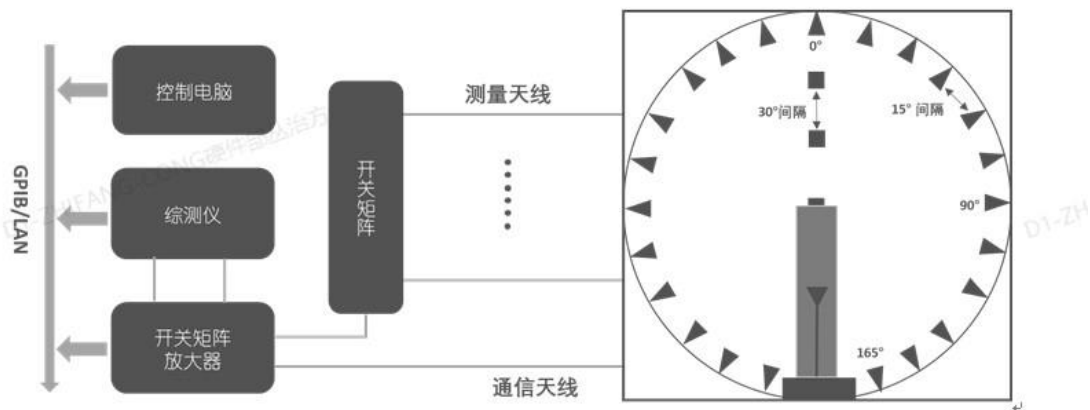
1: Chamber room introduction and testing scope



Our company has a number of OTA test darkrooms, ranging from 400MHz to 8.5ghz, which can provide passive test and active test (including OTA overall 2G, 3G, 4G, 5G NR test, WIFI

multi-mode test, GPS active test, Bluetooth active test, which can provide antenna gain and efficiency. 2D orientation and apple chart analysis and upper and lower hemisphere efficiency values, mutual disturbance correlation coefficient test items.

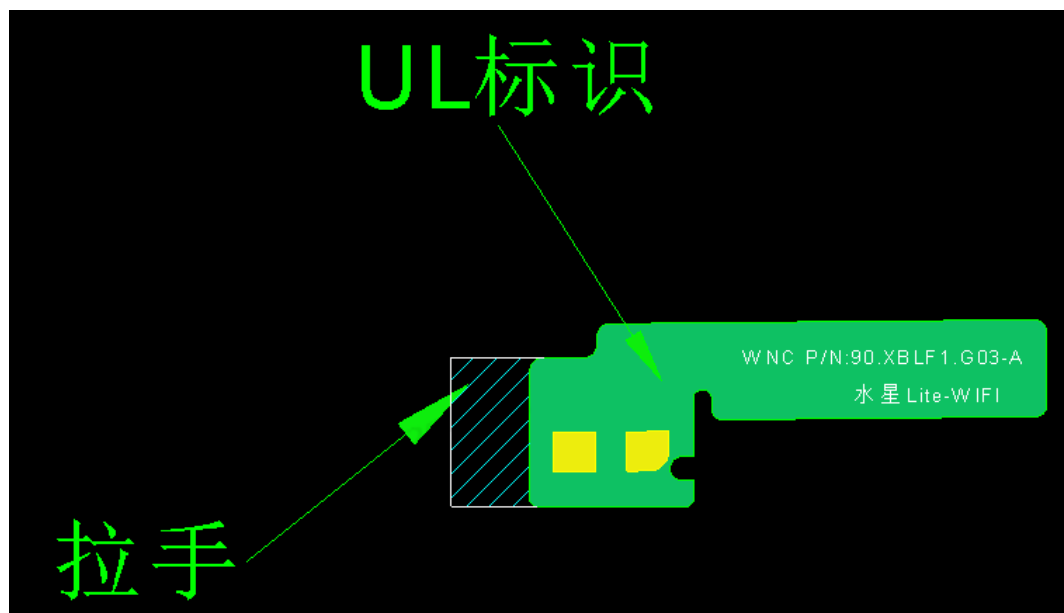
2: Test system introduction:

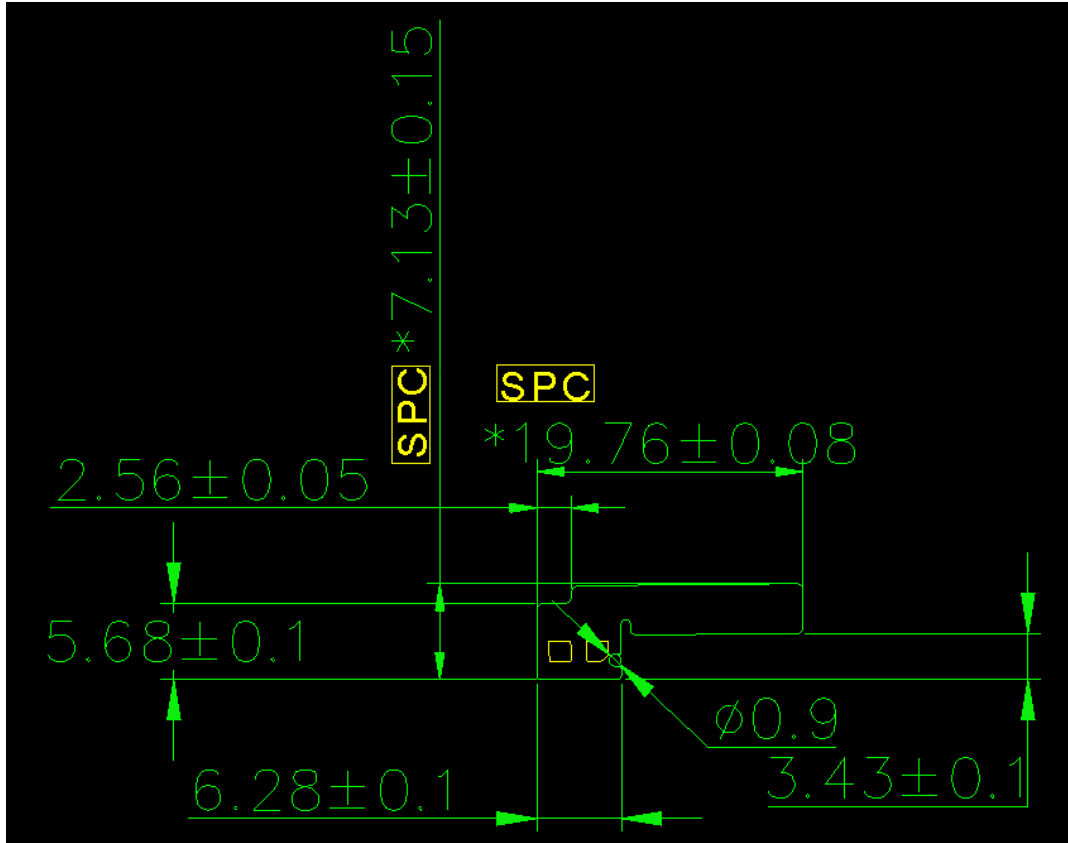


The figure above shows the connection and control process between the darkroom of our company and the testing system and computer. The testing system has the characteristics of accurate, fast and simple testing. The operation interface is simple and humanized.

3: Antenna Design

The FPC antenna is on the left temple of the glasses.





4: Antenna Performance

4.1 Average Gain、Efficiency and Peak Gain

- BT & Wi-Fi 2G

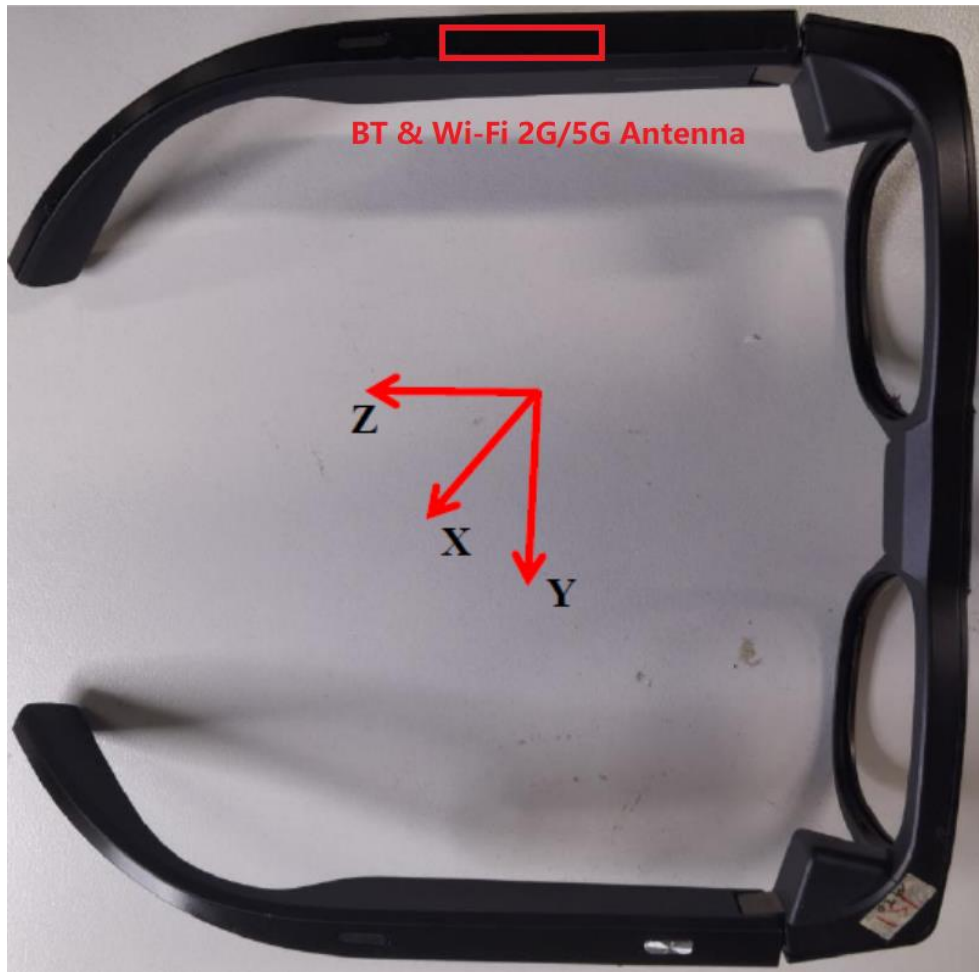
Frequency(GHz)	Average Gain(dB)	Efficiency(%)	Peak Gain(dBi)
2.4	-8.63	13.71	-2.64
2.41	-8.43	14.35	-2.38
2.45	-8.33	14.69	-1.77
2.47	-8.08	15.56	-1.4

2.5	-8.2	15.14	-1.46
-----	------	-------	-------

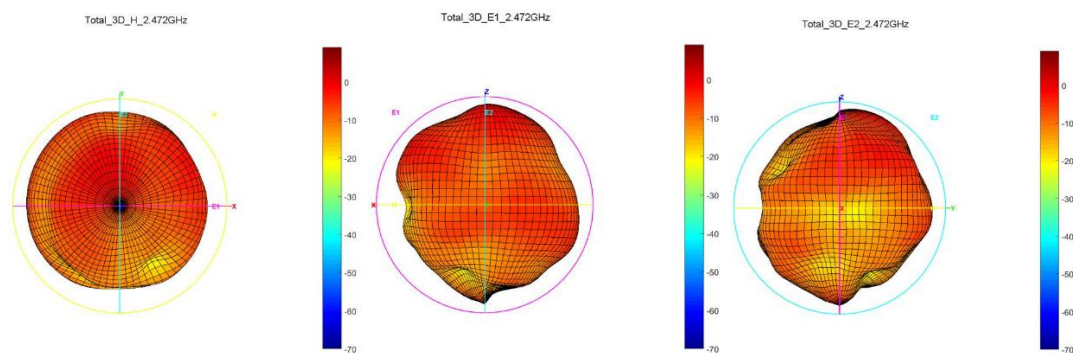
- Wi-Fi 5G

Frequency(GHz)	Average Gain(dB)	Efficiency(%)	Peak Gain(dBi)
5.15	-4.46	35.83	1.18
5.25	-4.58	34.86	1.04
5.35	-4.55	35.08	1.09
5.47	-5.25	29.87	1.24
5.55	-5.14	30.64	1.44
5.6	-5.10	30.91	1.49
5.7	-5.51	28.13	1.38
5.75	-5.65	27.24	1.33
5.78	-5.65	27.24	1.45
5.8	-6.29	23.51	0.97
5.85	-6.94	20.21	0.47

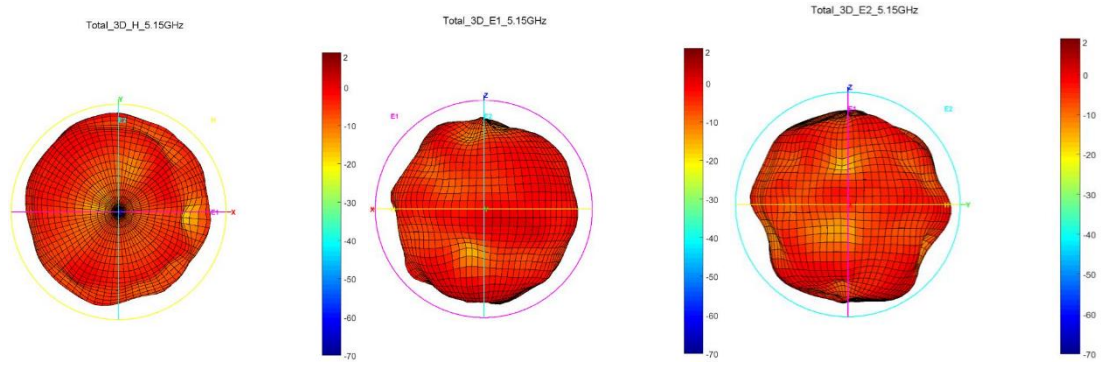
4.2 Radiation Pattern



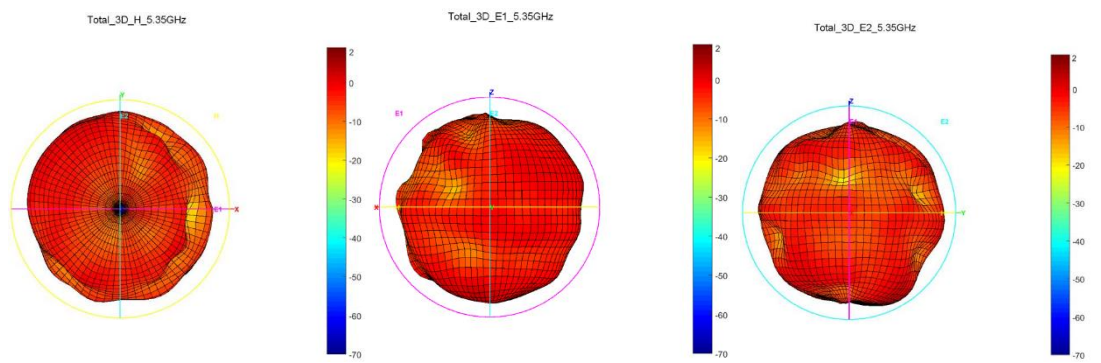
2.47GHz 3D radiation patterns



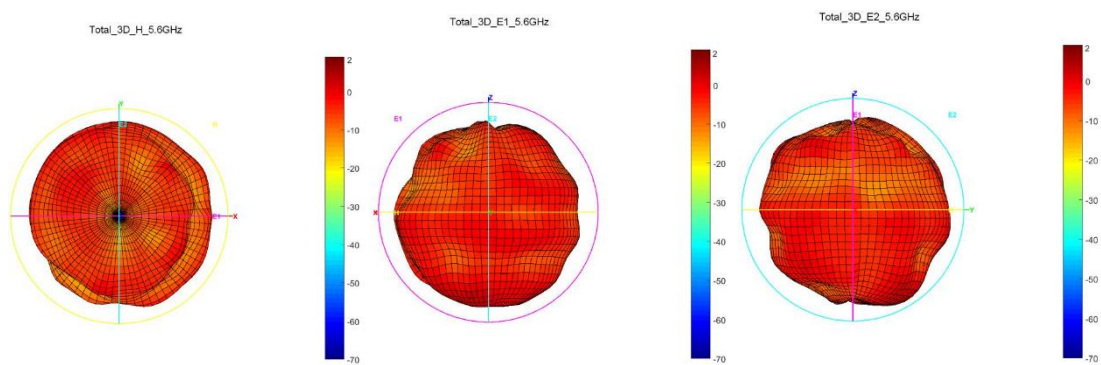
5.15GHz 3D radiation patterns



5.35GHz 3D radiation patterns



5.6GHz 3D radiation patterns



5.78GHz 3D radiation patterns

