

TPV Kobo 6 SPA 电子书天线测试报告

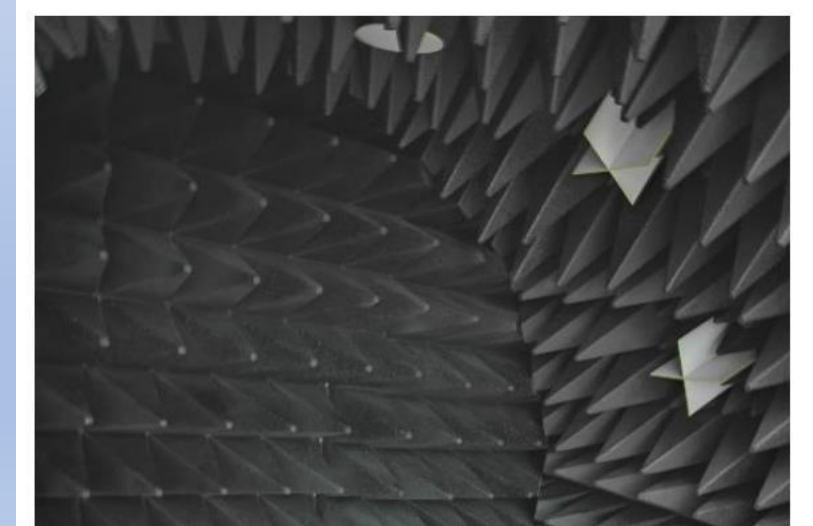
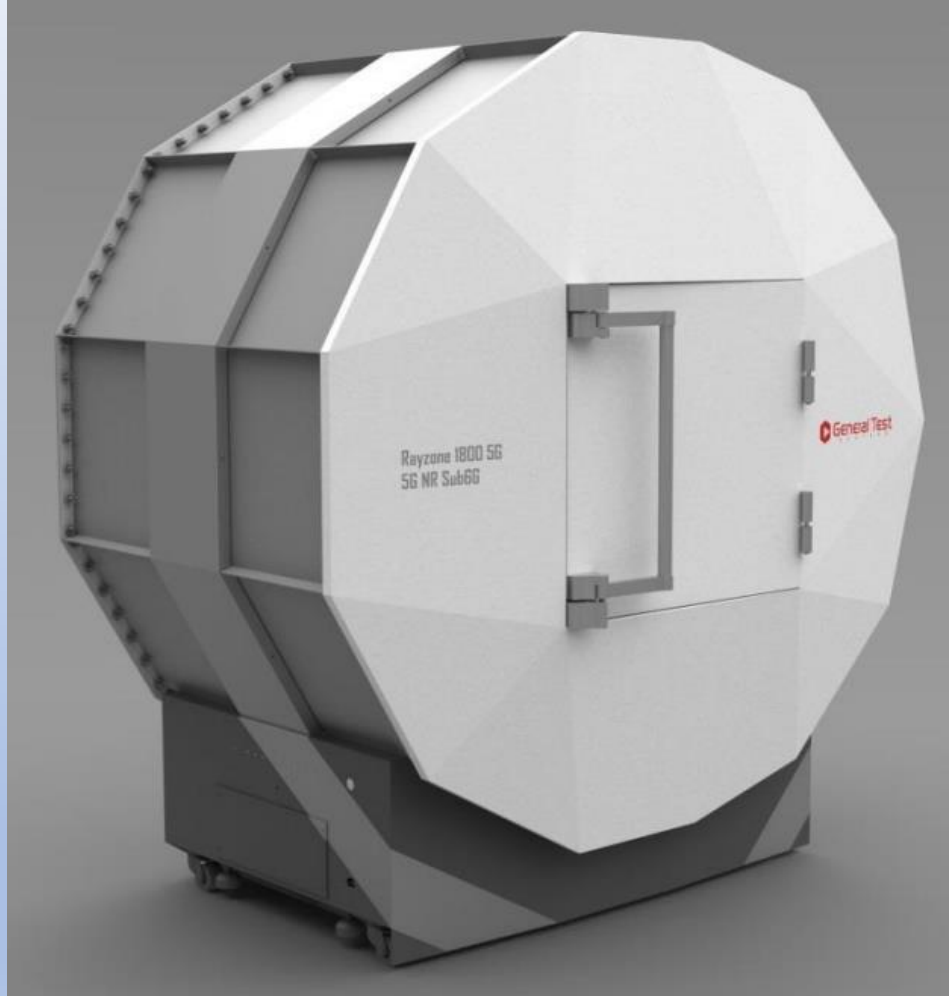
Passive

2024. 11. 12

OTA Chamber appearance



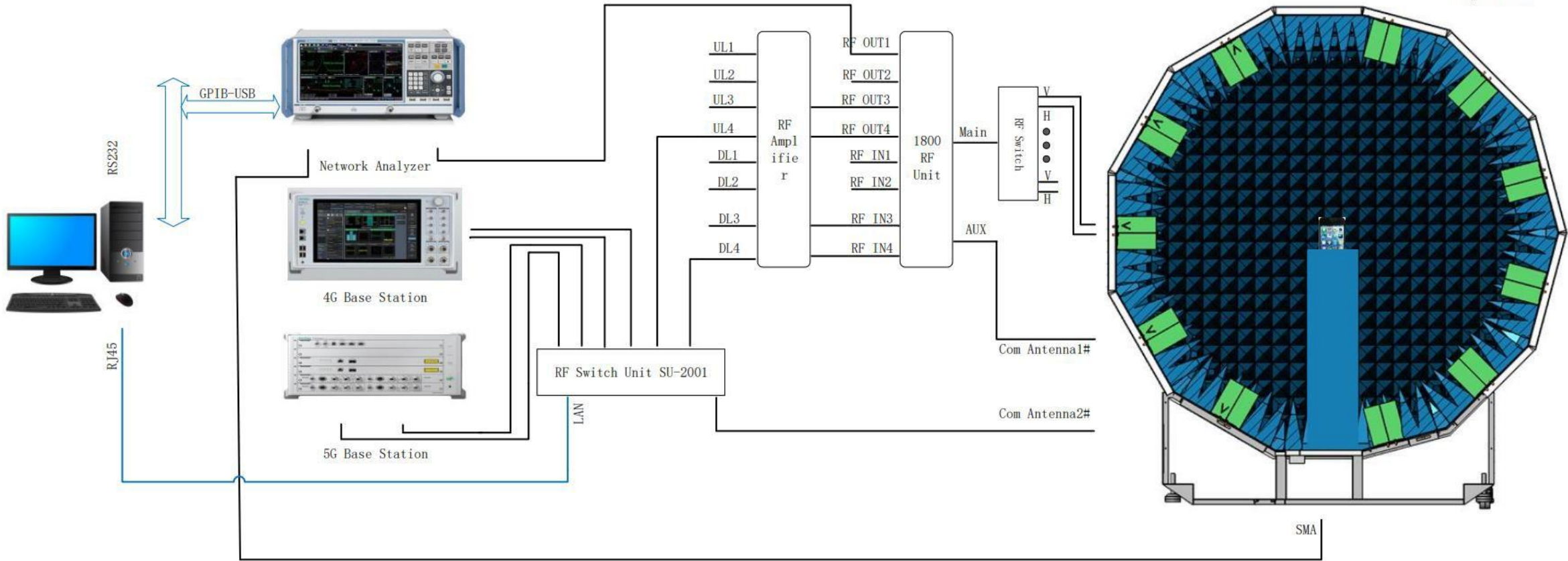
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RayZone1800 Test Setup

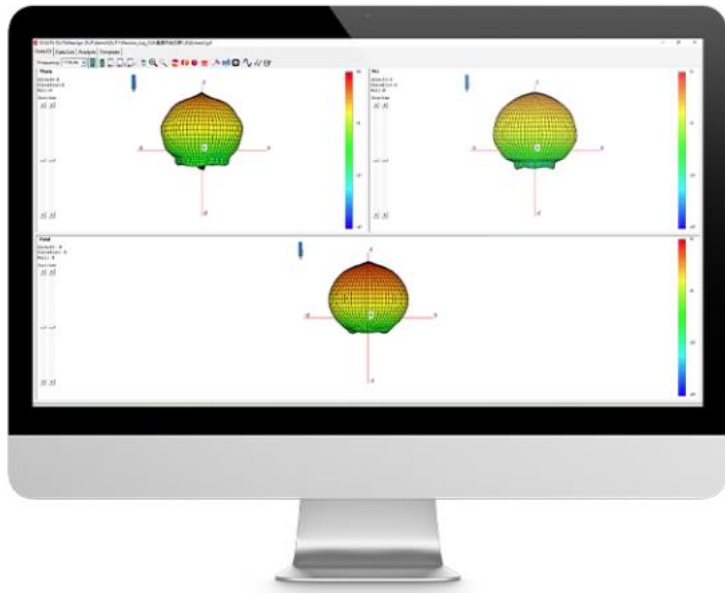
Anechoic Chamber
GTS RayZone1800



睿测®无线 OTA 测试软件 Wavex® Phoenix

Setup Description:

- Step1: Fix the DUT on the pole in the center of the anechoic chamber.
- Step2: The whole antenna unit is connected with the coaxial line at the transmitter end of the anechoic chamber.
- Step3: Close the anechoic chamber door to avoid the external signal interference.
- Step4: Open the antenna measurement system and can select frequency or angle to test, and import the need frequency point to test.
- Step5: After testing, the test system can carry on far-field data conversion.





TPV PN: 368GAAWA232HAY

Antenna Type: Chip Antenna

Antenna design source: Shenzhen Hanyang Antenna Design Co.Ltd.

Antenna manufacture site: Guangdong Province, China

Antenna applications :

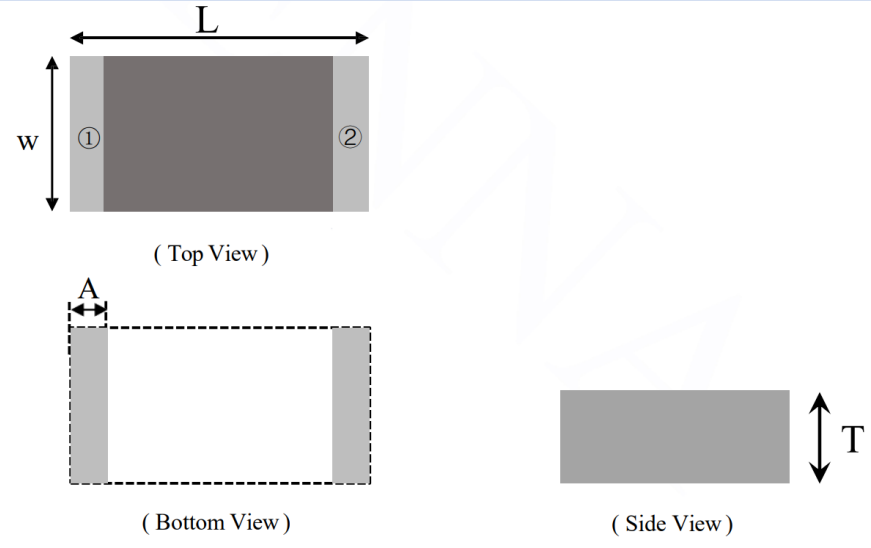
- 1. Bluetooth
- 2. Wireless LAN
- 3. ISM band 2.4GHz wireless applications

Dimensions (Unit: mm)

Symbols	L	W	T	A
Dimensions	2.0 ± 0.3	1.2 ± 0.3	0.55 ± 0.1	0.30 ± 0.10



HY201305ANT01





- 1.Test Chamber: General Test_Rayzone 1800
- 2.Address: R&D Building No.9, Main Park, Taohuayuan Science &Technology Innovation Park, Shenzhen, China)
- 3.Measured by Yangda Lai 2024/11/12

Yangda Lai

4.Test Instruments

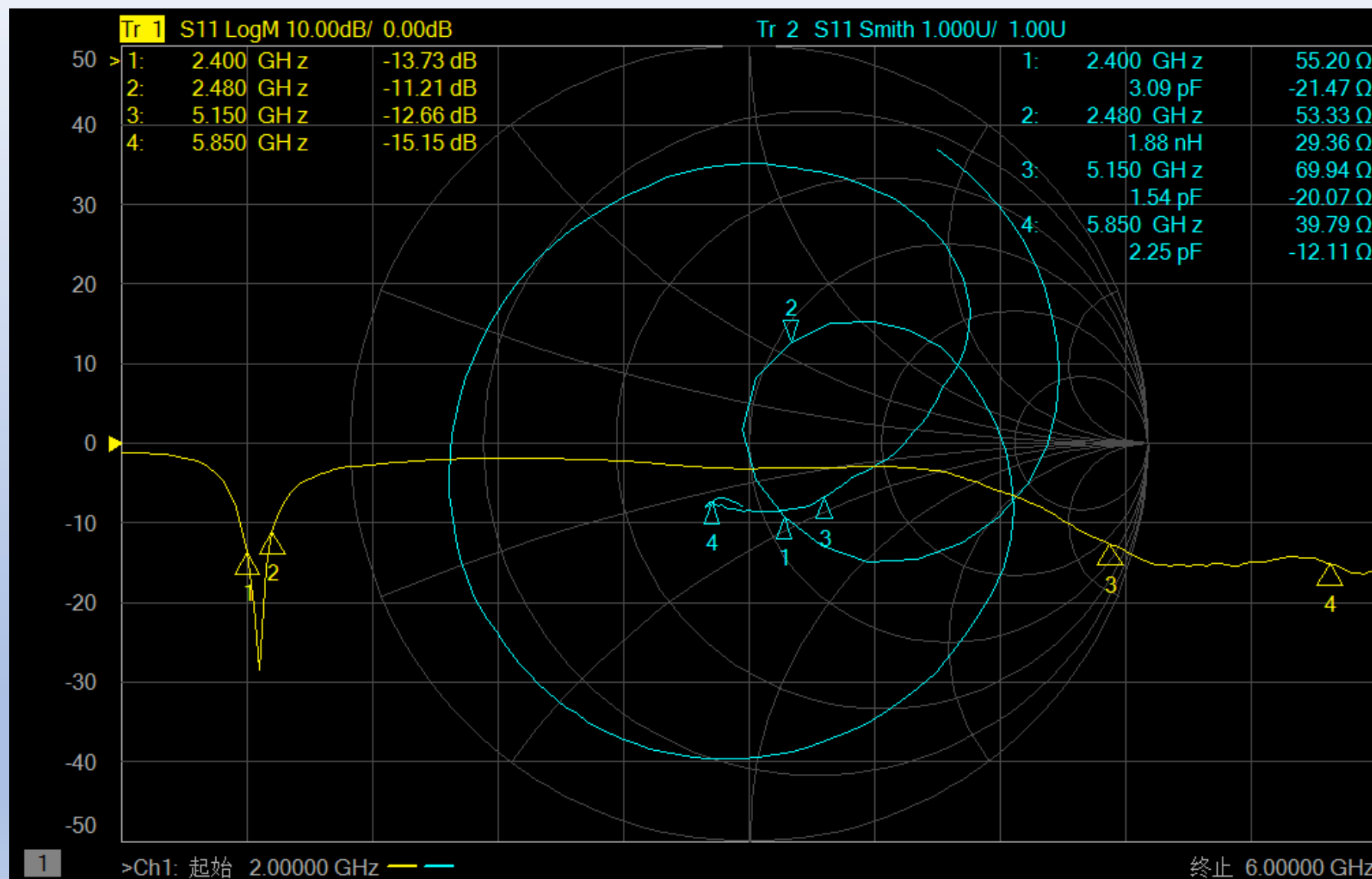
5.Antenna Test Setup

Item	Measuring Instruments	Latest Calibration Schedule
1	OTA Chamber-General Test Rayzone 1800	2024/04/01
2	Network Analyzer E5071C	2024/07/21
3	ROHDE&SCHWARZ CMW500	2024/04/01

1.2、Return Loss&Smith chart



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2.1、Efficiency



2.4G			
Freq	Efficiency_ dB	Gain_dBi	Efficiency_ Pcent_ %
2400	-3.23	-0.12	47.48
2410	-3.07	-0.11	49.35
2420	-2.97	-0.12	50.49
2430	-2.92	-0.13	51.06
2440	-2.92	-0.34	50.99
2450	-2.96	-0.53	50.57
2460	-3.01	-0.67	50.02
2470	-3.09	-0.55	49.07
2480	-3.26	-0.65	47.21
2490	-3.48	-0.79	44.9
2500	-3.63	-0.93	43.38

5G			
Freq	Efficiency_ dB	Gain_dBi	Efficiency_ Pcent_ %
5150	-2.69	1.35	53.83
5200	-2.53	1.23	55.87
5250	-2.53	1.15	55.85
5300	-2.99	0.72	50.19
5350	-2.78	0.62	52.7
5400	-2.49	0.92	56.43
5450	-2.72	0.68	53.48
5500	-3.3	0.3	46.82
5550	-3.4	0.15	45.69
5600	-2.82	0.84	52.19
5650	-2.45	1.22	56.9
5700	-2.88	0.8	51.47
5750	-3.54	0.05	44.25
5800	-3.66	-0.23	43.09
5850	-3.13	0.16	48.67

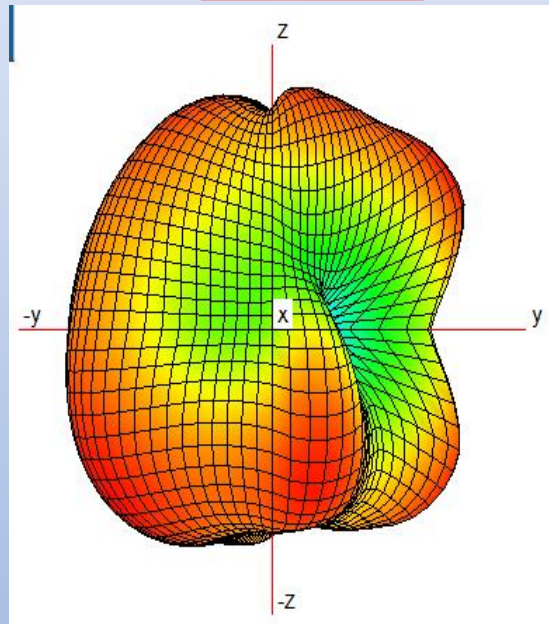
2.2、 3D Radiation pattern-2.4GHz



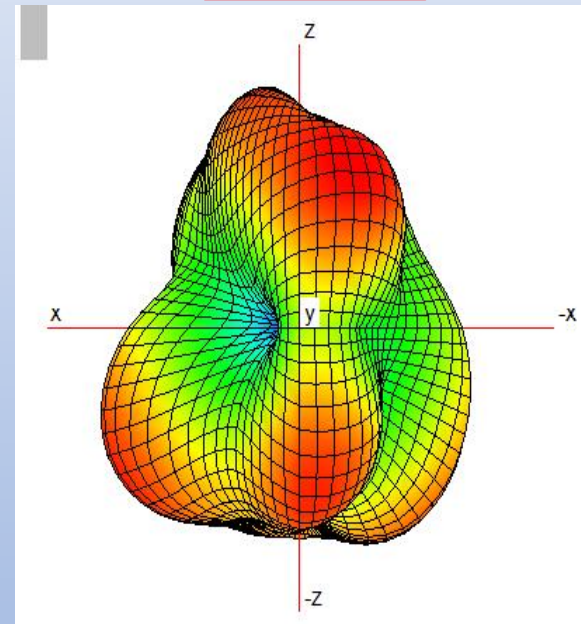
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2450MHz

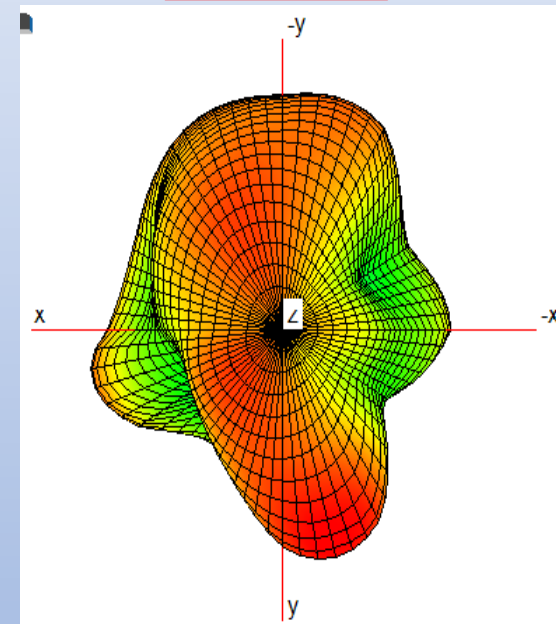
yz plane



xz plane



xy plane



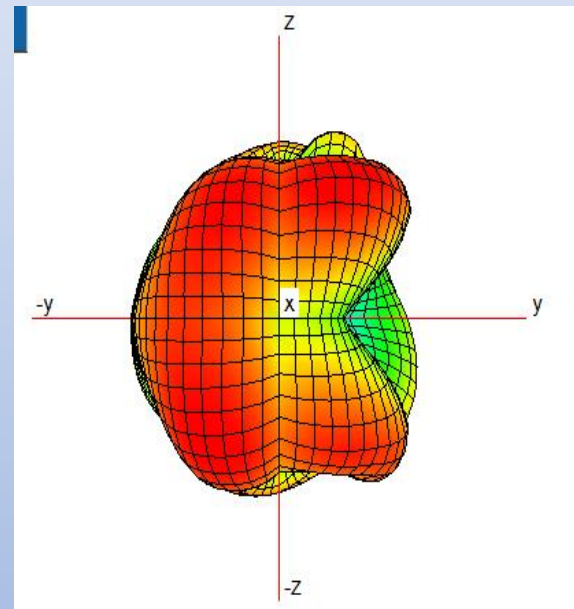
2.3、 3D Radiation pattern-5GHz



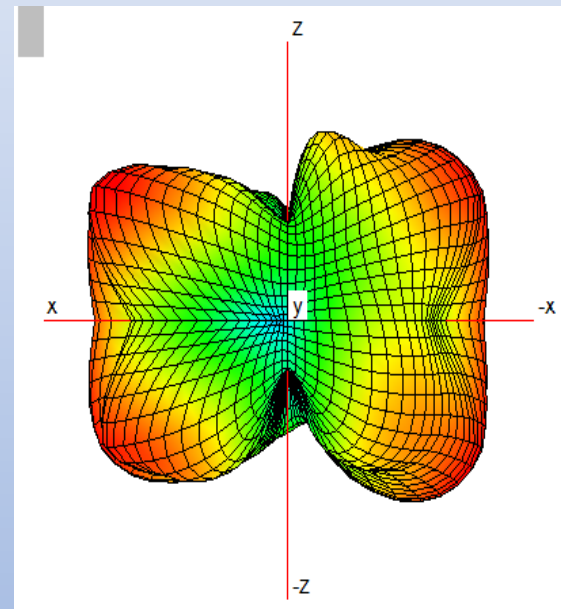
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5500MHz

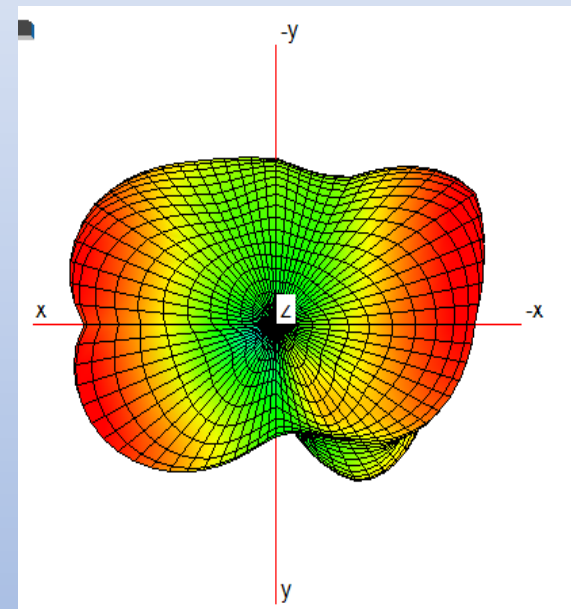
yz plane



xz plane



xy plane



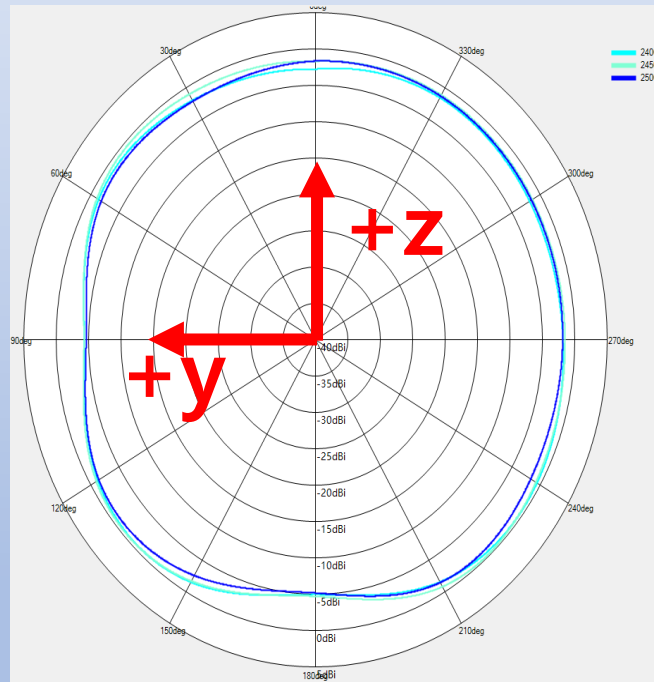
2.4、2D Radiation pattern-2.4GHz



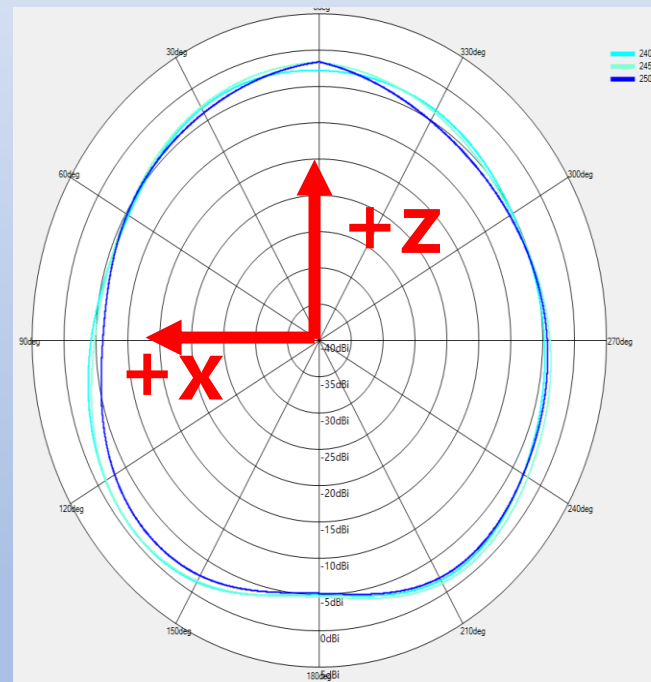
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2.4G

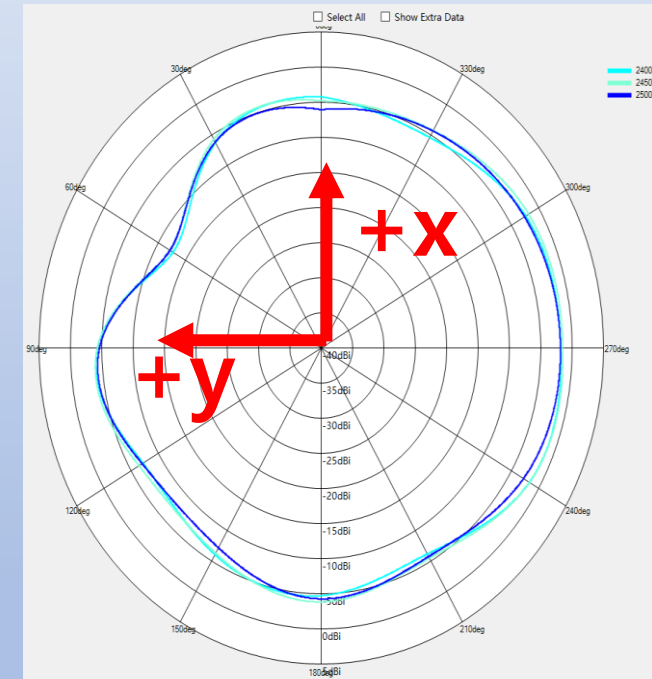
yz plane



xz plane



xy plane



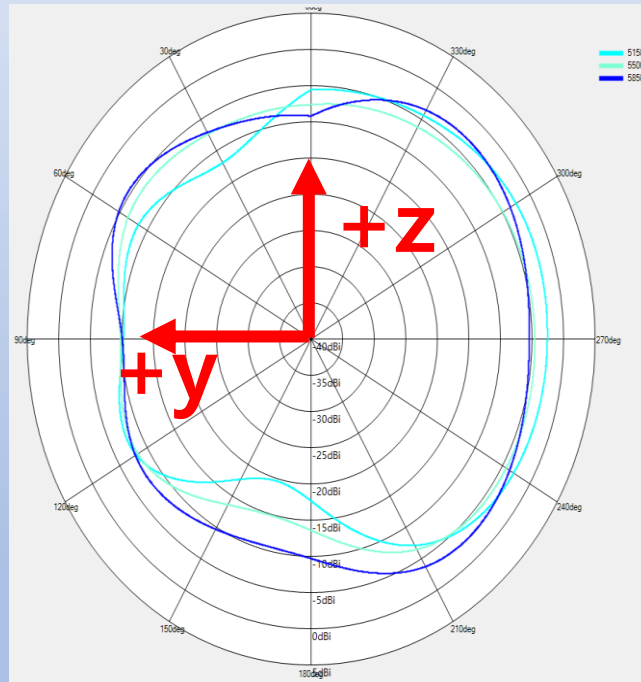
2.5、2D Radiation pattern-5GHz



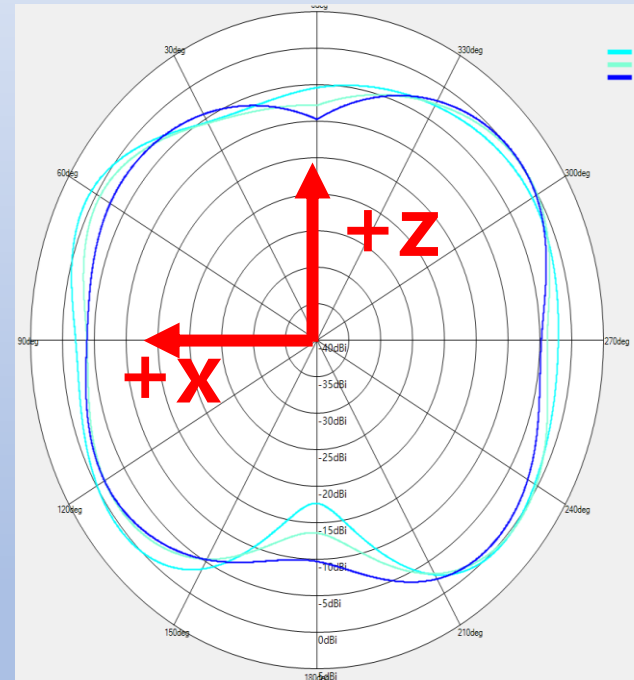
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5G

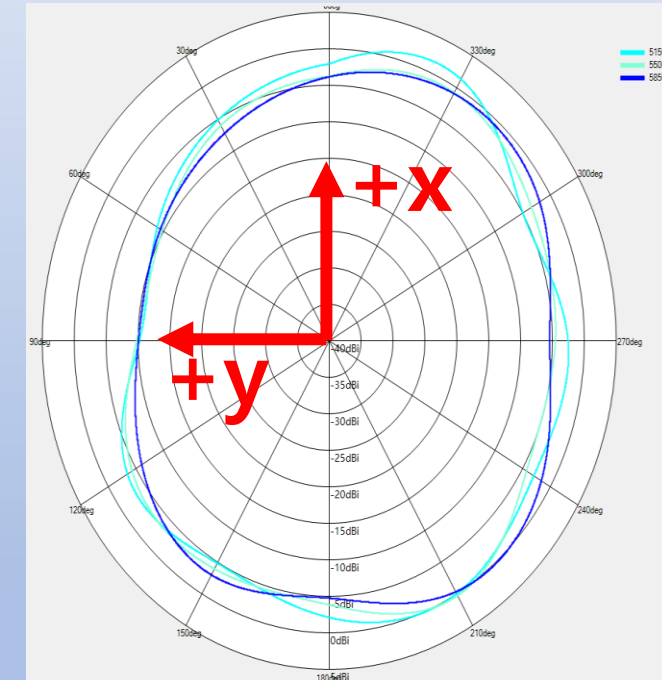
yz plane



xz plane



xy plane





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5G

Welcome calls consultations, negotiations and guidance come!

Thank you