

OTA Test Report

Customer information : 深圳星航物连科学技术有限公司

Test items : OTA Test Report

Test date : 2022-10-17

Tester : Vincent

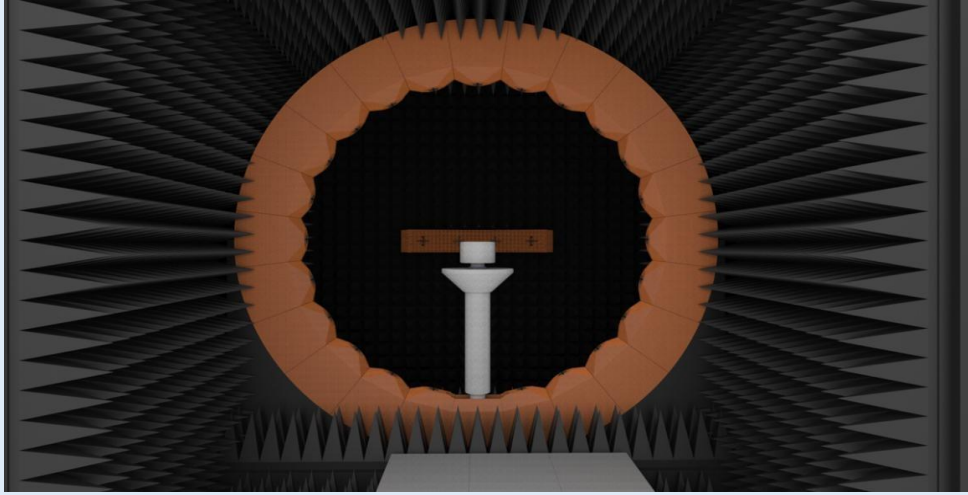
Review : Keith.wang

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First、Test system

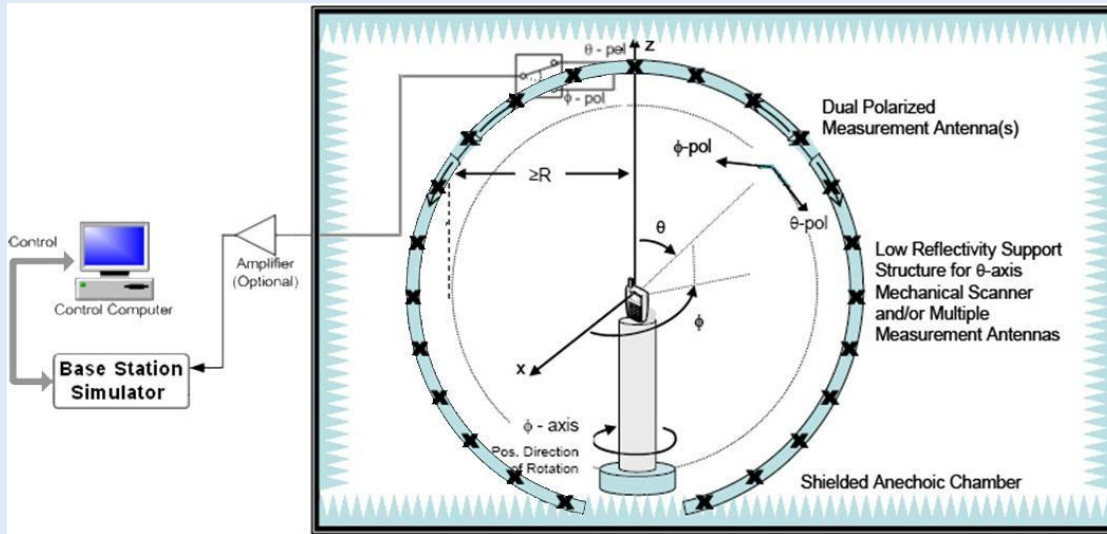
1.1 Test system description

Test system	Name	Multi probe spherical near-field antenna measurement system
		
Testing environment	E5071C	
Tested object	Smart sports watch	

1.2 Testing environment

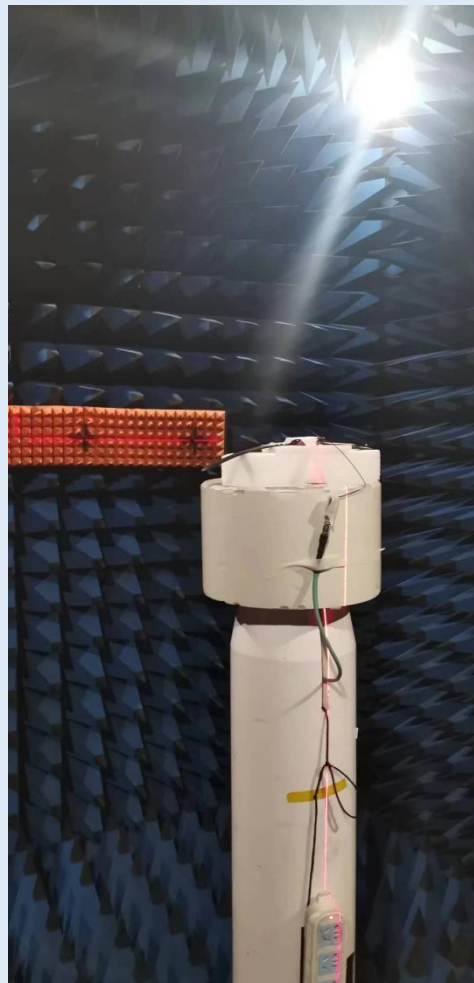
Testing environment	MPS2440 Multi probe spherical near-field antenna measurement system
Ambient temperature	23℃
Ambient humidity	52%
Ambient air pressure	101KPa

1.3 Test system

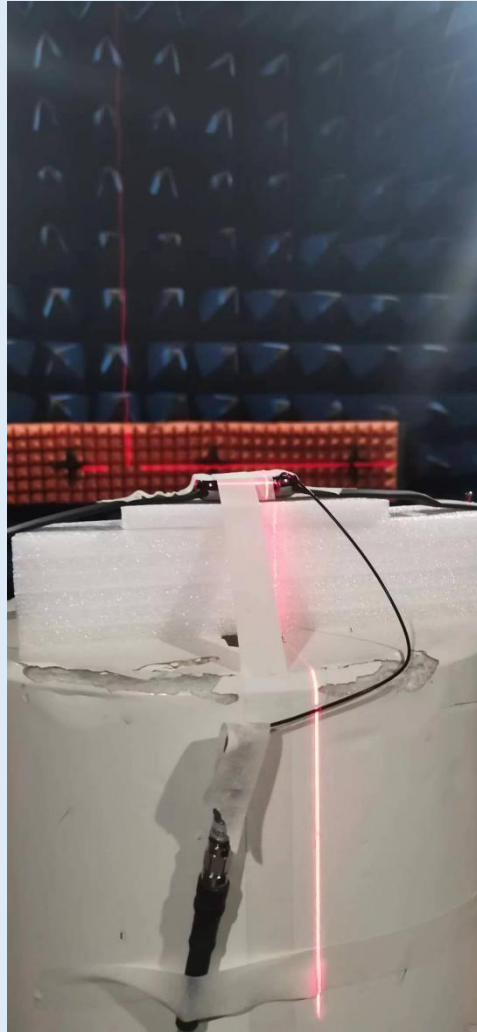


Schematic diagram of test system connection

1.4 Test description



Prospective view of tested object placement



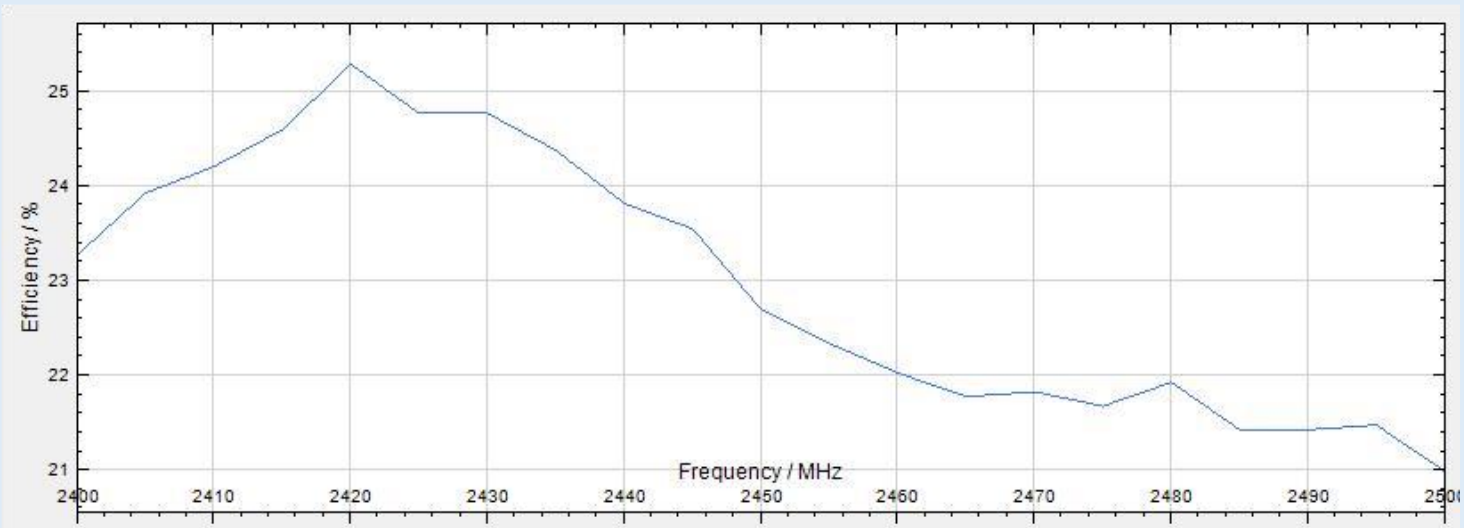
Close up view of tested object placement

Second、Test data

2.1 Test data

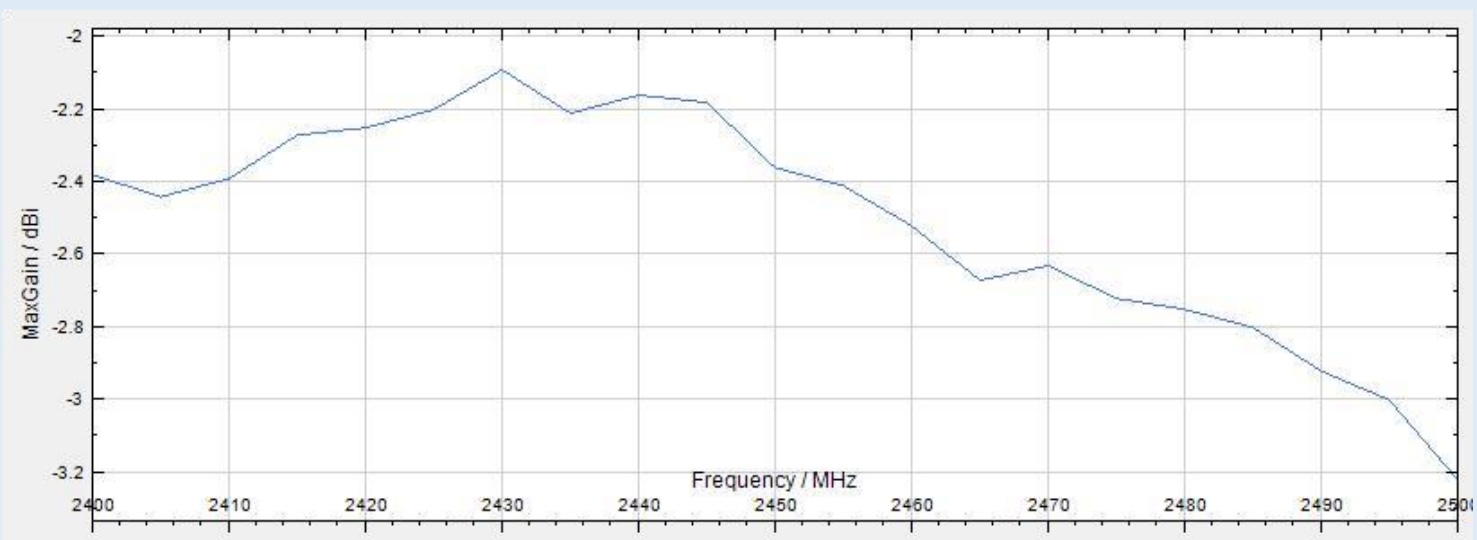
Efficiency:

Frequency/Mhz	Efficiency / %
2400	23.28
2405	23.93
2410	24.21
2415	24.6
2420	25.29
2425	24.77
2430	24.77
2435	24.38
2440	23.82
2445	23.55
2450	22.7
2455	22.34
2460	22.03
2465	21.78
2470	21.83
2475	21.68
2480	21.93
2485	21.43
2490	21.43
2495	21.48
2500	20.99

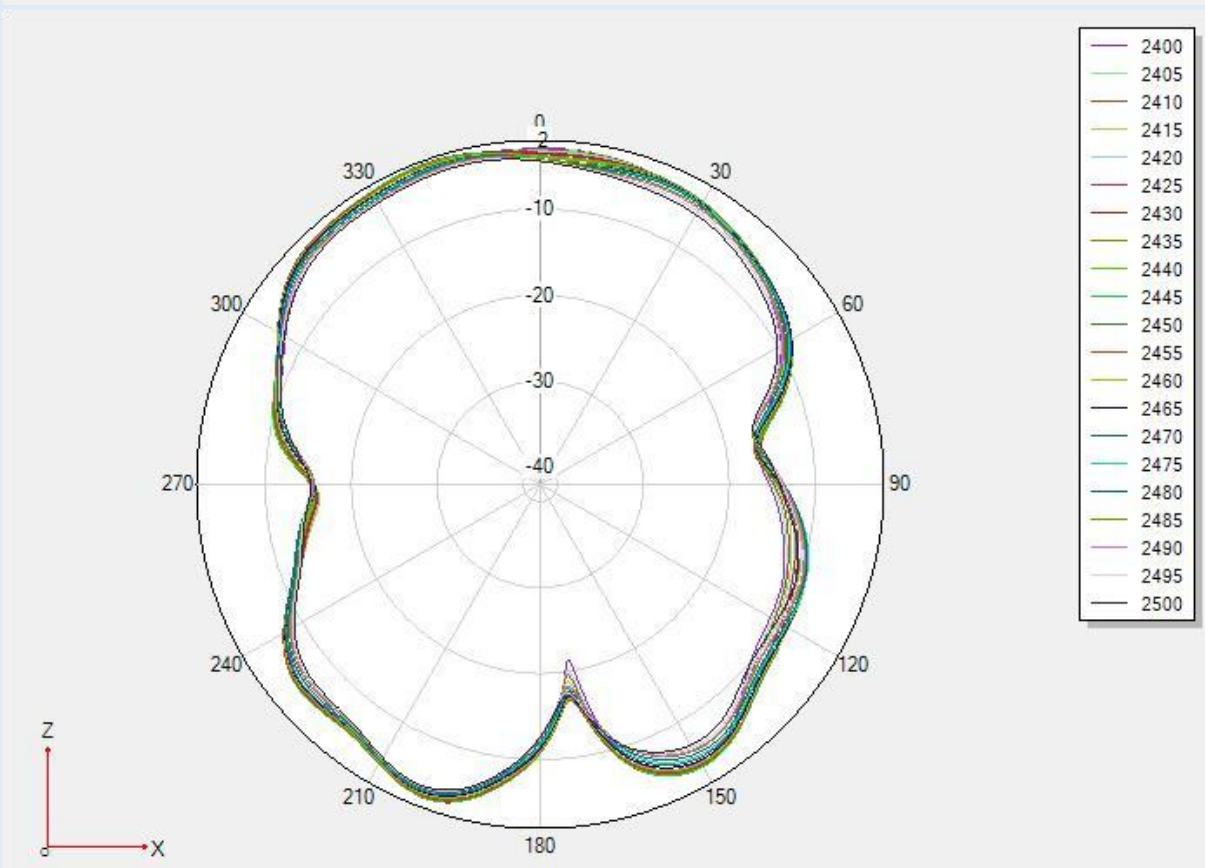
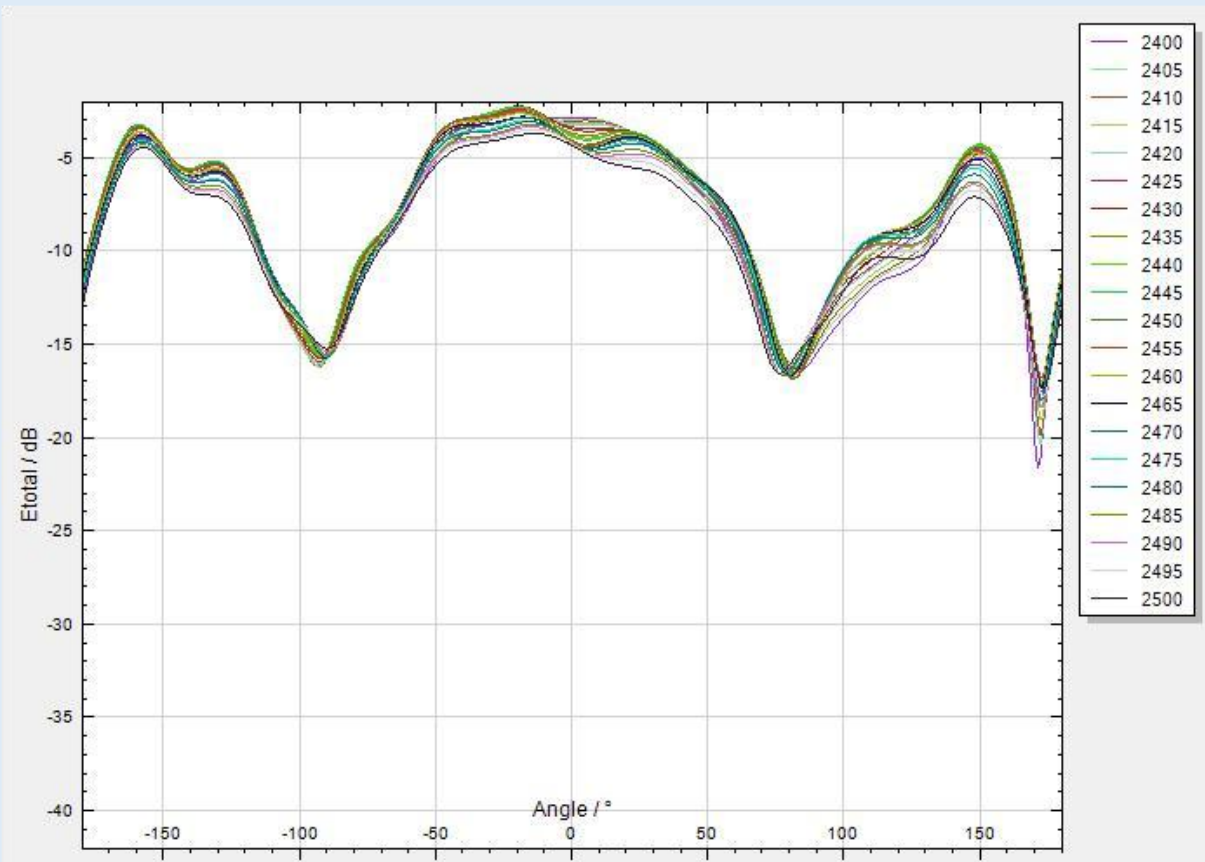


增益: Gain

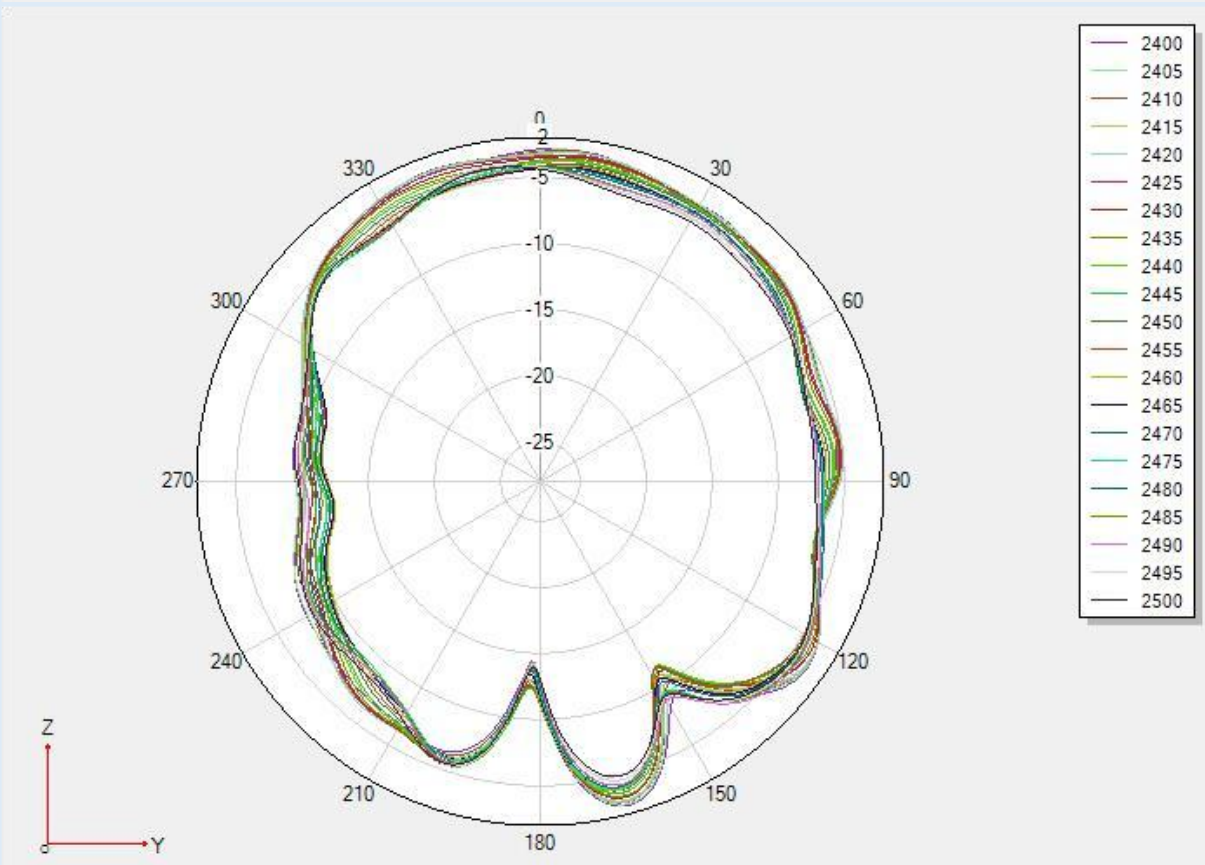
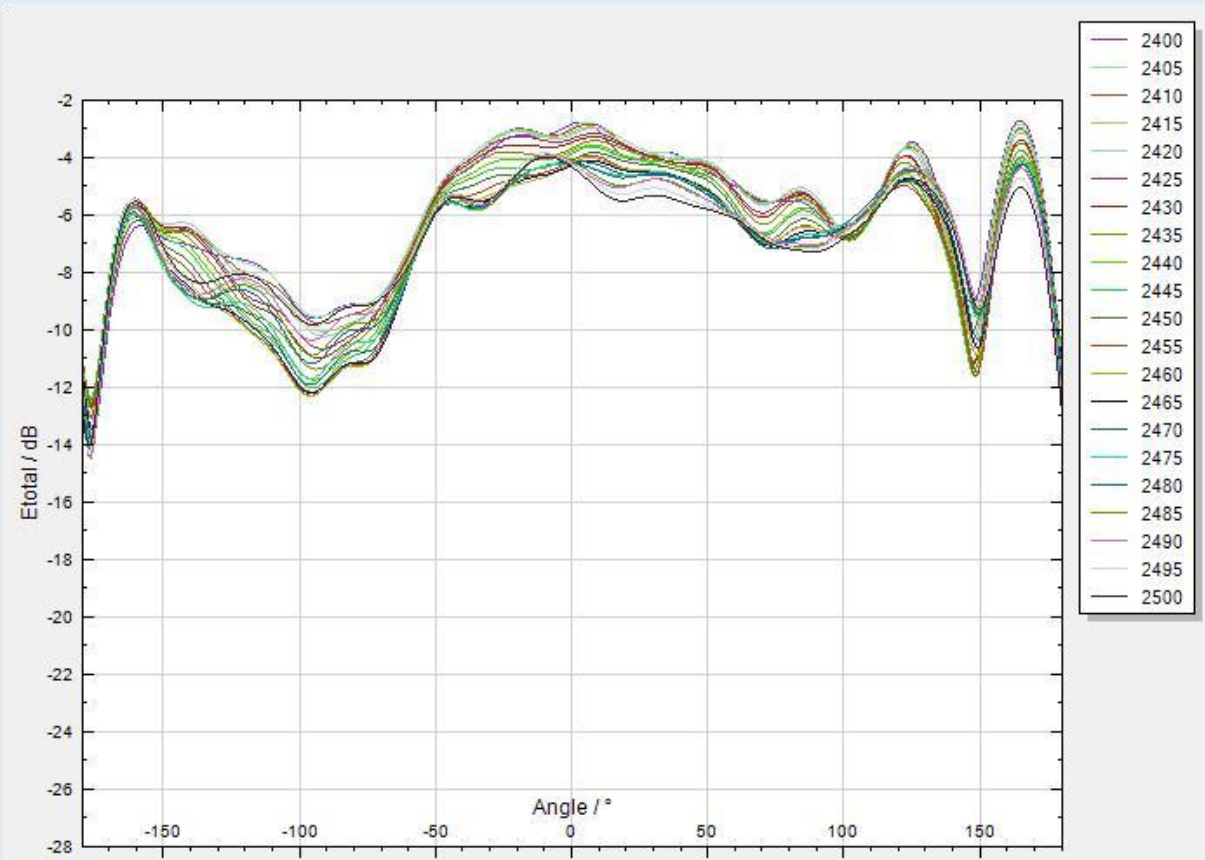
Frequency/MHz	MaxGain/dBi
2400	-2.38
2405	-2.44
2410	-2.39
2415	-2.27
2420	-2.25
2425	-2.2
2430	-2.09
2435	-2.21
2440	-2.16
2445	-2.18
2450	-2.36
2455	-2.41
2460	-2.52
2465	-2.67
2470	-2.63
2475	-2.72
2480	-2.75
2485	-2.8
2490	-2.92
2495	-3
2500	-3.22



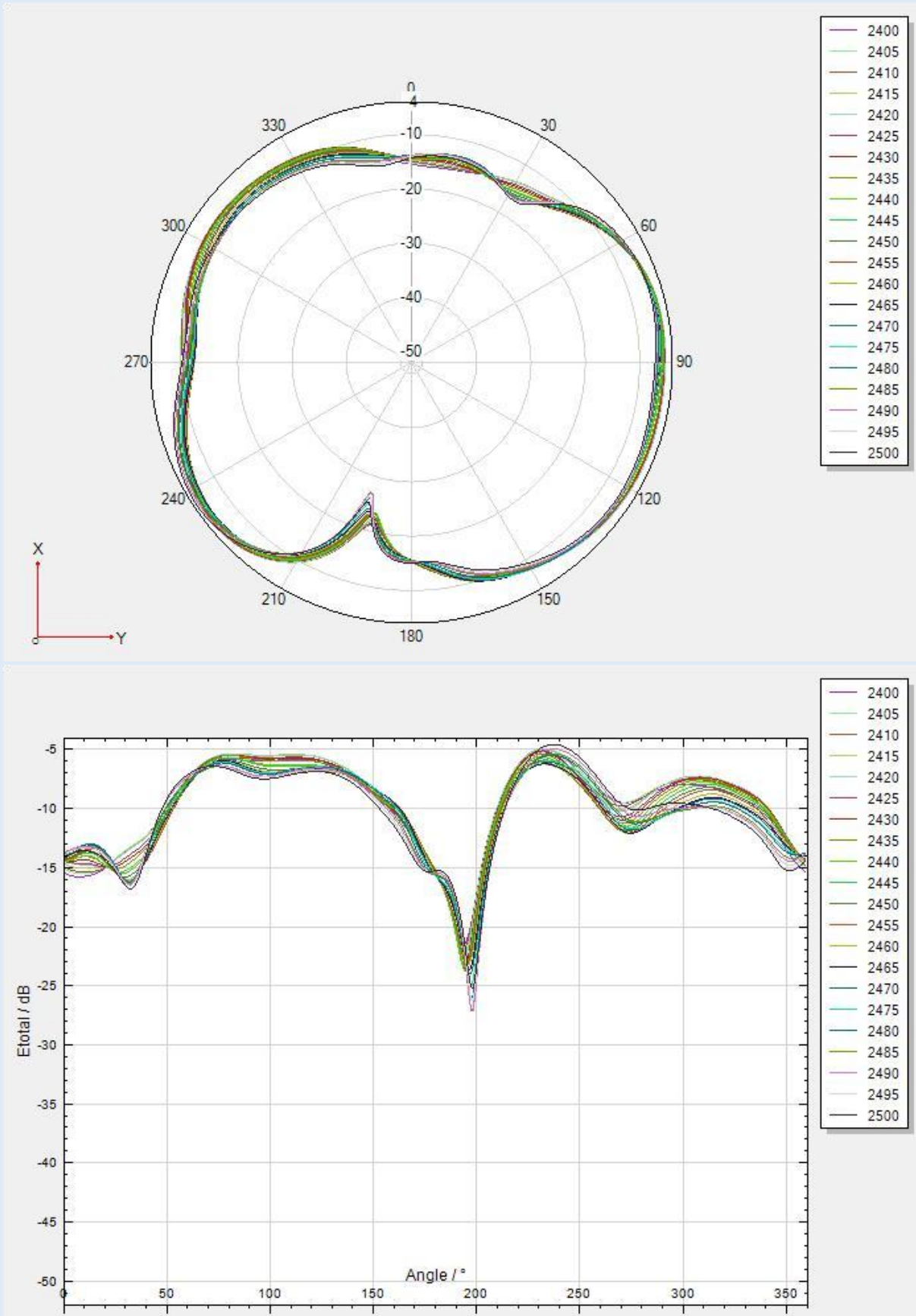
2.2 Phi 0 2D Diagram



2.3 Phi 90 2D Diagram

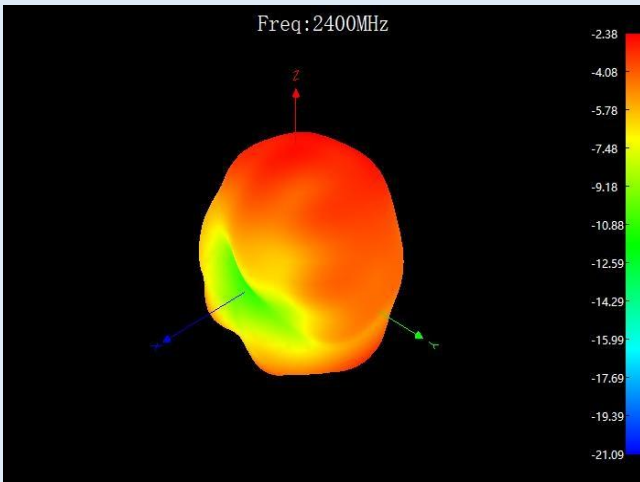
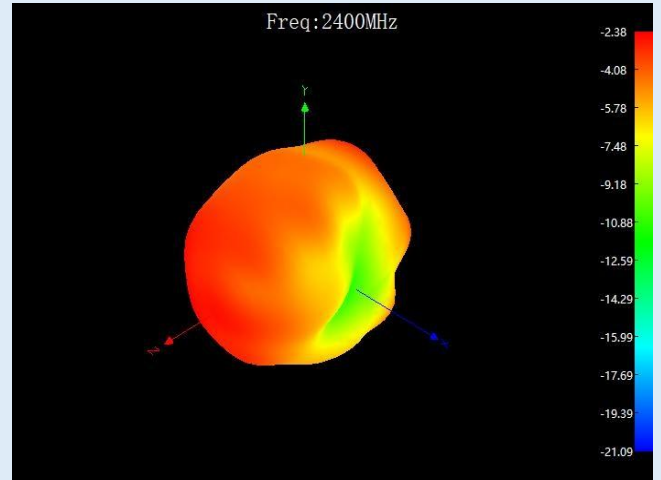
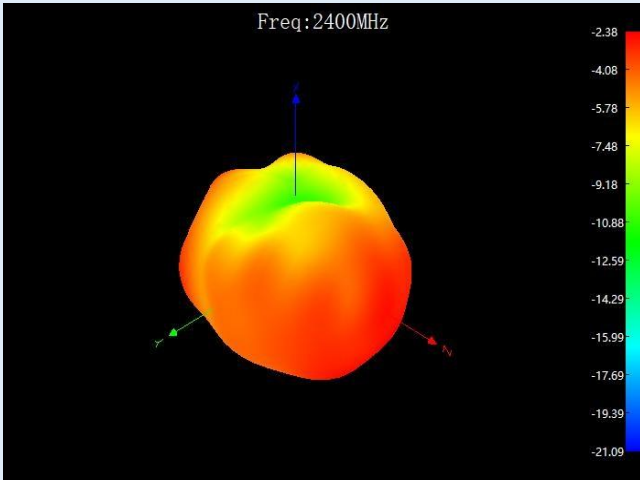


2.4 Theta 90 2D Diagram

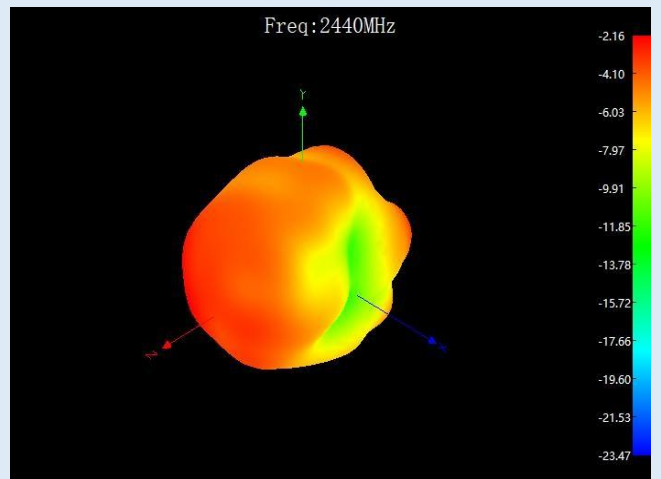
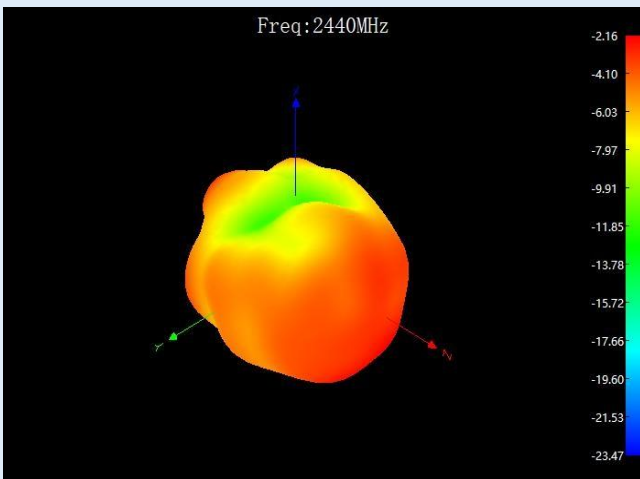


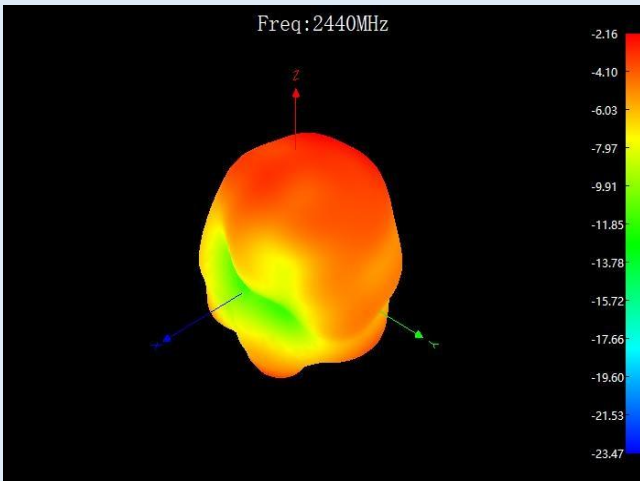
2.5 3D Etotal

2400MHz:

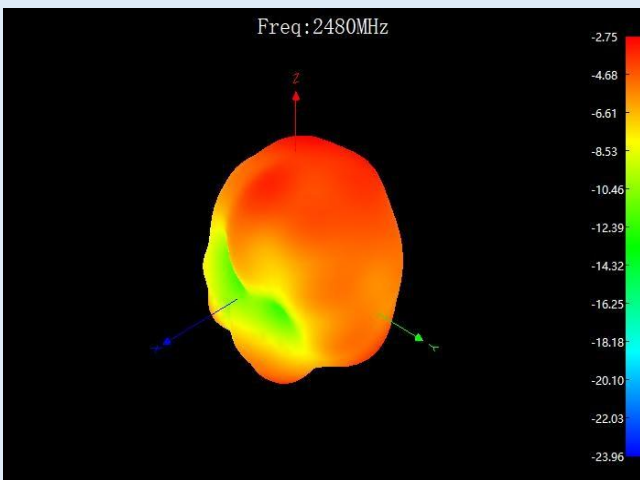
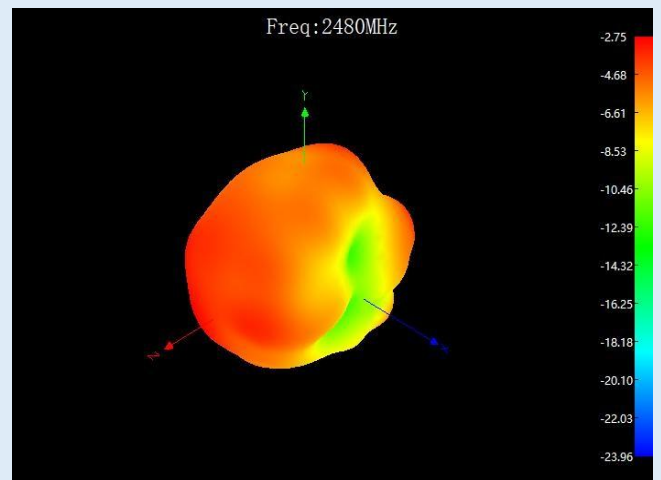
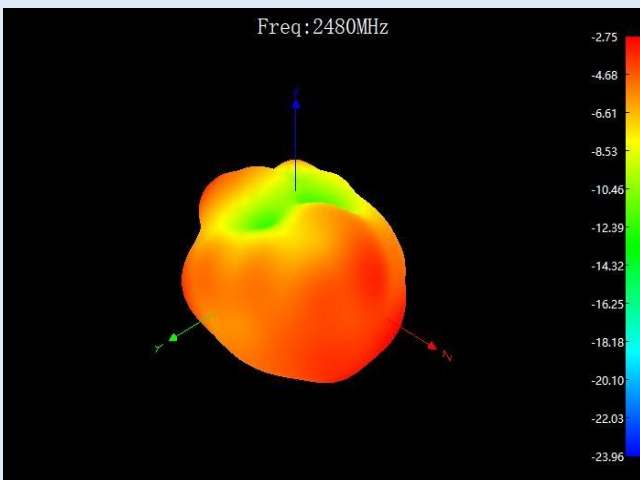


2440MHz:





2480MHz:



Third、Length of physical image of antenna

