



Antenna Approval Sheet

For

E205W Project

Customer	福克创新	Project	E205W
Band	WiFi 2.4G		
ZC PN	E205W-WIFI		
Version	R:A	Data	2023-2-3



1. Summary of the DUT

E205W Picture



Antenna Picture



2. Electrical Specification:

Antenna types	Built-in wifi 2.4GHZ antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Peak Gain	2.4GHZ 2.44 dbi
Efficiency	>40 %
Antenna Material	FPC+同轴线
Connector Type	1.13 MHF-1-Plug

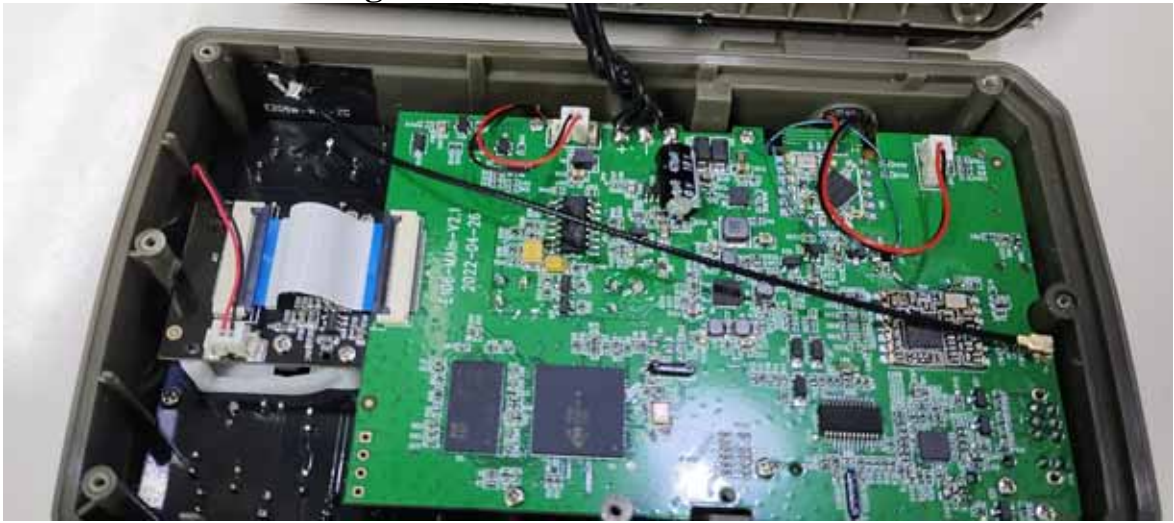


3. Test Condition

3.1	测试项目	测试设备和型号	备注
1.无源测试	1.Return Loss 2.S.W.R 2.Antenna Gain	1.R&S ZVL6 2.Satimo SG24(3D) 3. Agilent 8960 E5515C	

3.2 Matching Circuit The matching circuit was Default

3.3Antenna installation diagram:

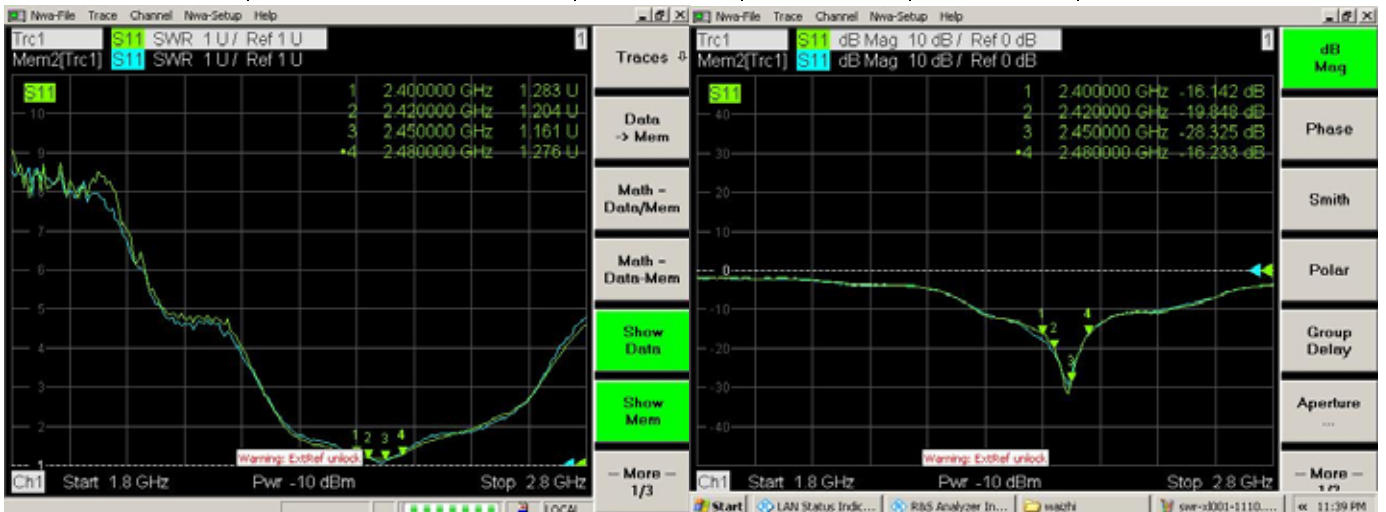


4.1 Passive parameters

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.09	2.18	2.23	2.44	2.38	2.28	2.13	1.78	1.21	1.16	0.75

4.2 S Parameter

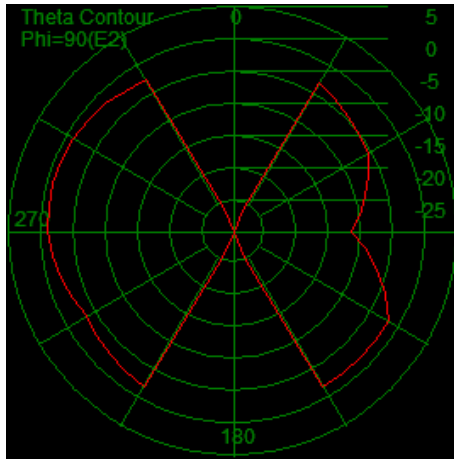
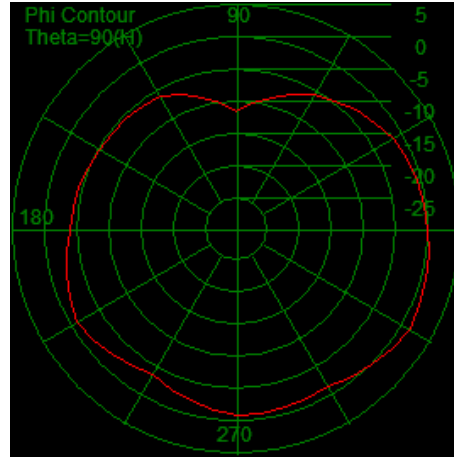
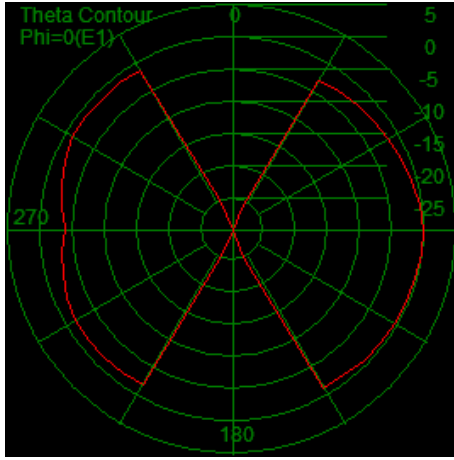
Frequency (MHz)	2400	2450	2480
Return Loss(dB)	-16.1	-28.3	-16.2
VSWR	1.28	1.16	1.27



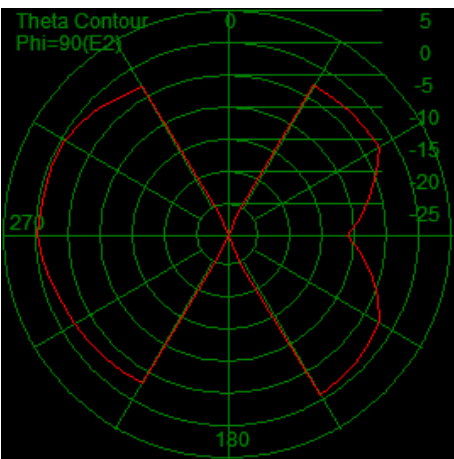
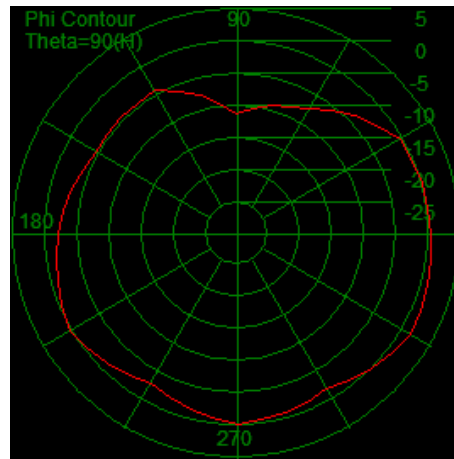
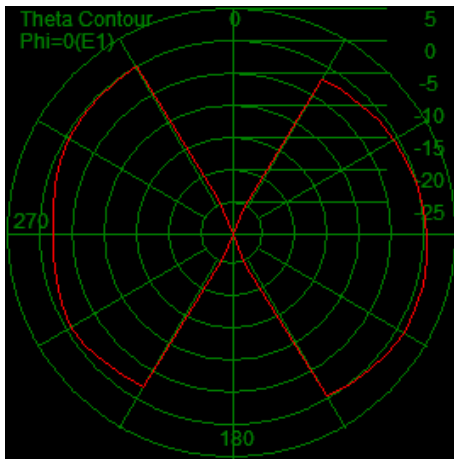


4.3 Radiation Pattern

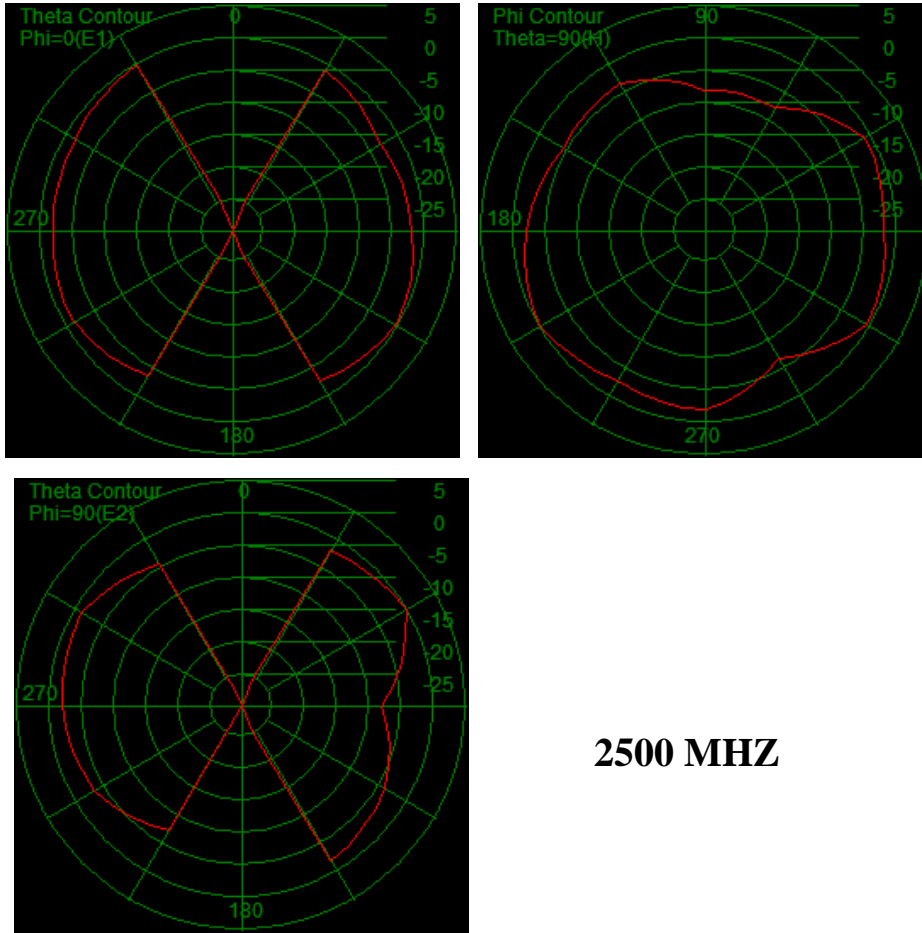
4.3.1 Antenna 2D Radiation Pattern



2400MHZ

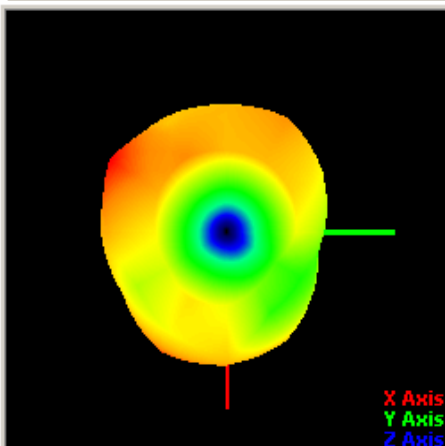
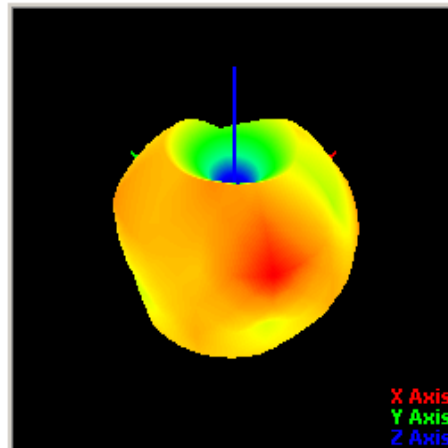
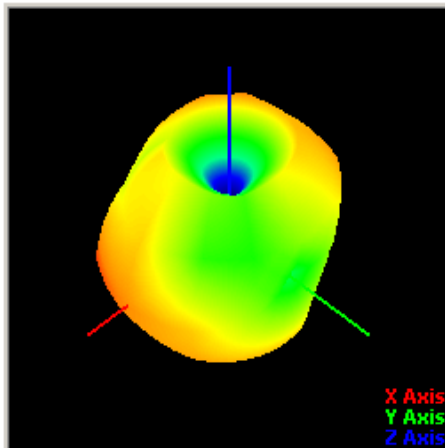


2430MHZ



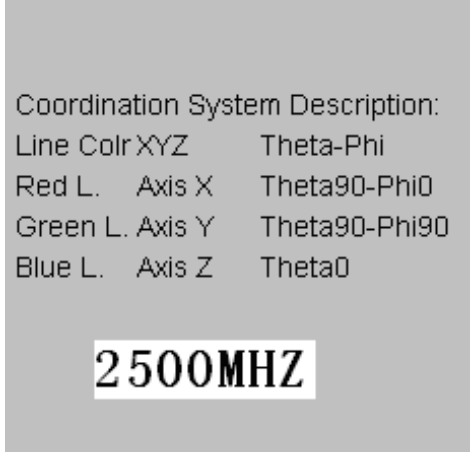
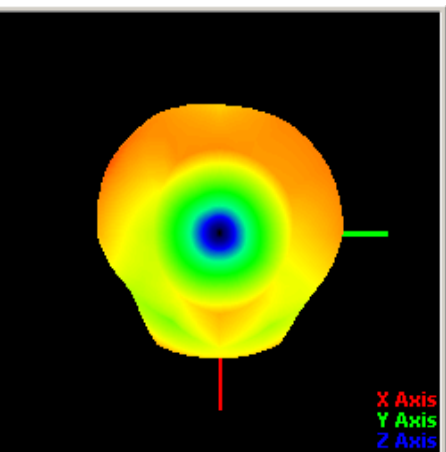
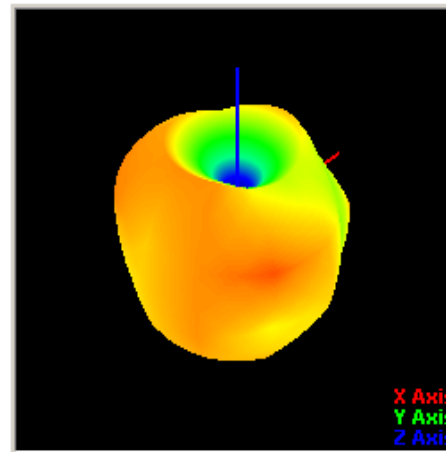
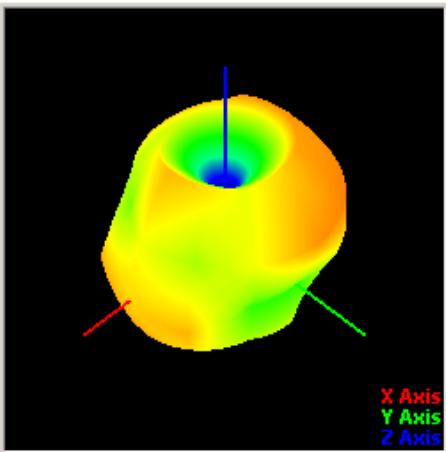
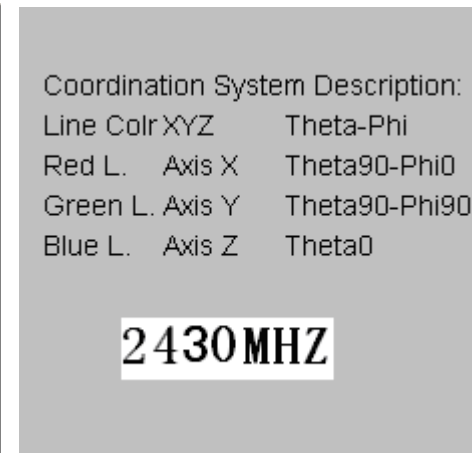
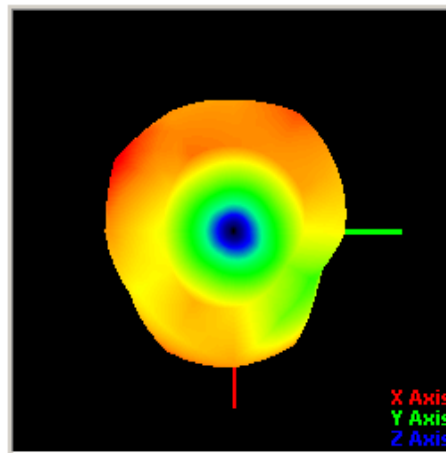
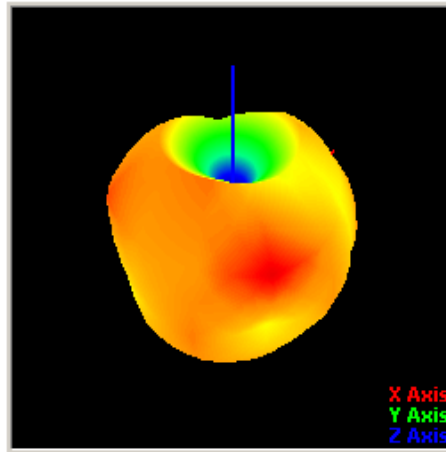
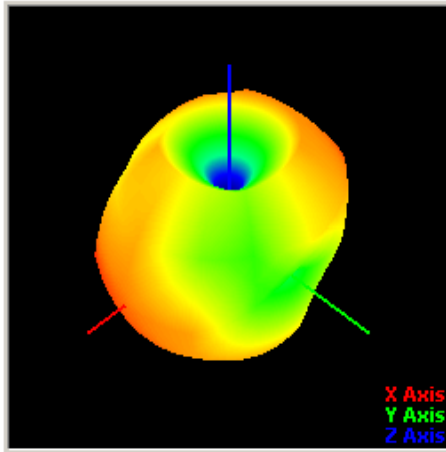
2500 MHZ

4.3.2 Antenna 3D Radiation Pattern



Coordination System Description:
Line Colr XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0

2400MHZ





4. ME Drawing for the antenna

