

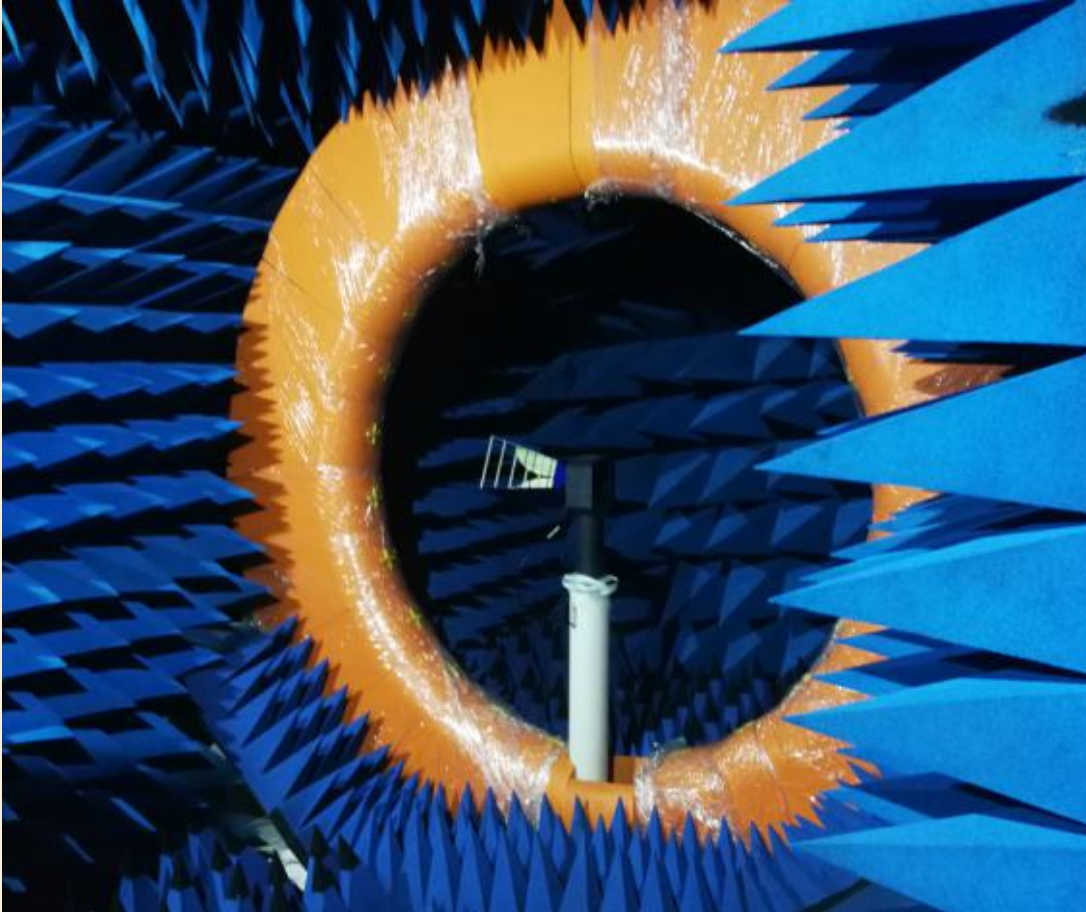
德威玛通讯设备有限公司
DWM Communication Equipment Co., Ltd.

SPECIFICATION
SHEET FOR APPROVAL

❖ DATE: 2025-06-05



Test Equipment



A 24-probe microwave chamber



5G StarPoint SP9500



R&S CMW500



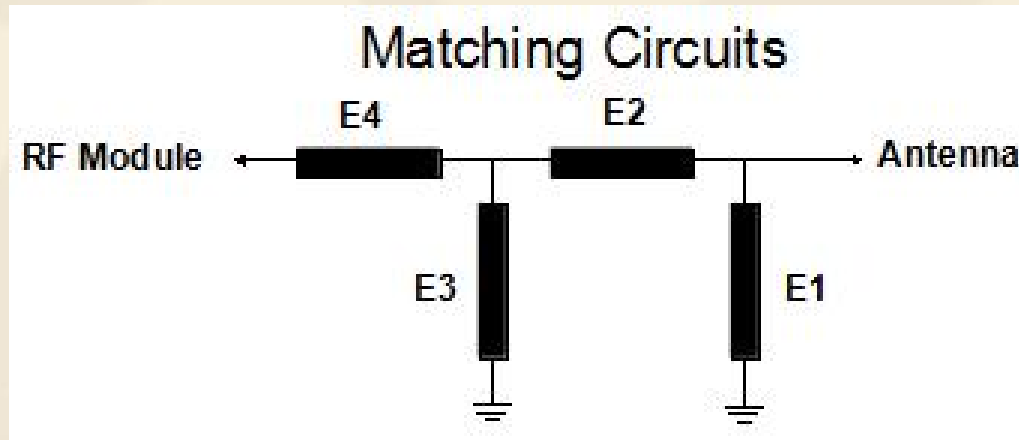
Agilent Technologies E5071C

Customer	iCOMON	Customer Number	FG2211WB- 2.4G WIFI
Antenna Band	WIFI:2400~2500MHz	DWM Number	
Date	2025/06/05	Author	

Specification

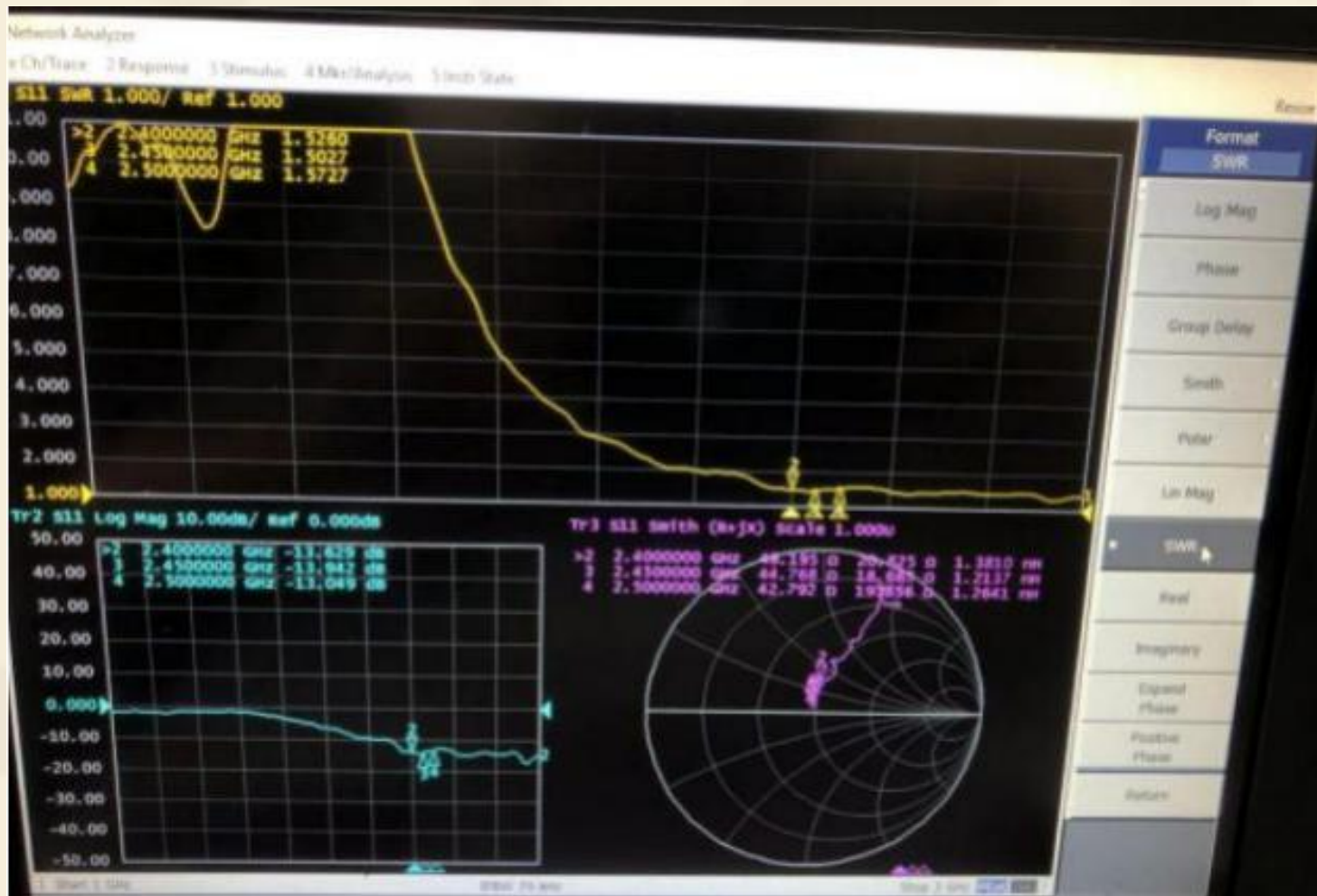
Technology Parameters	
Frequency (MHz)	2400~2500MHz
Peak Gain(dBi)	2400~2500MHZ:3. 21dBi
Efficiency(%)	2400~2500MHZ> 40%
VSWR	2400~2500MHZ<2. 0
Impedance (Ω)	50 Ω
Antenna Type	Dipole
Polarization	Linear

The matching test value



Element	Value
E1(0201)	
E2(0201)	
E3(0201)	
E4(0201)	

WIFI Antenna S11 Data:



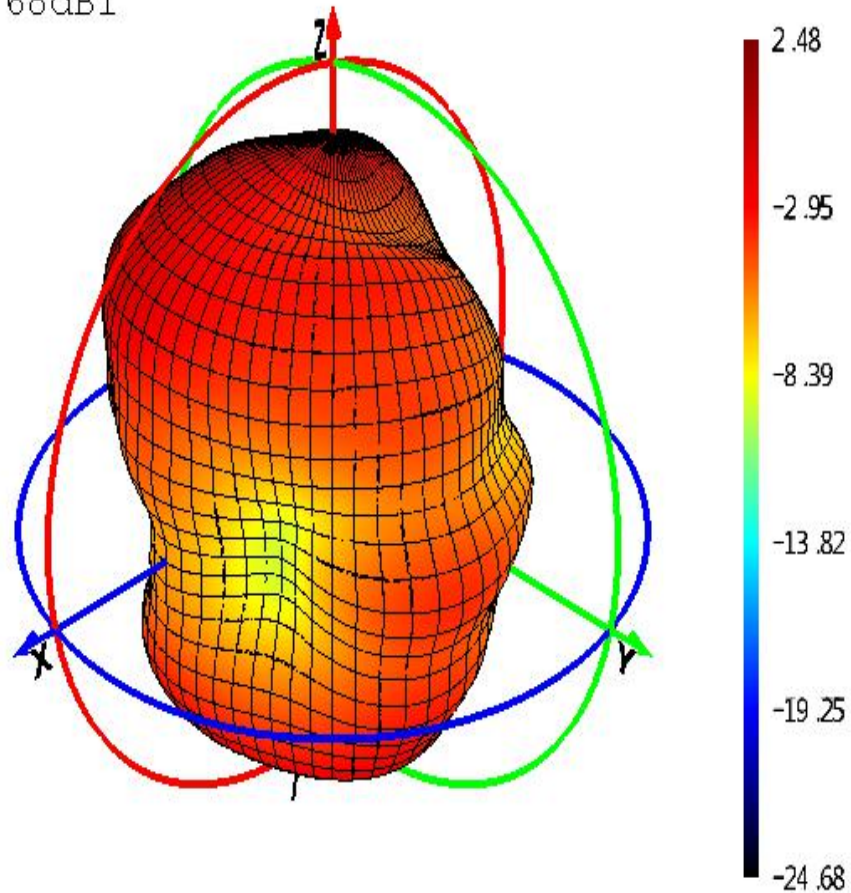
WIFI Antenna Gain And Efficiency;

Gain&Efficiency				
Frequency (MHz)	Gain (dBi)	MinGain (dBi)	Efficiency (dB)	Efficiency (%)
2400.00	2.48	-24.68	-2.41	57.37
2410.00	3.00	-23.77	-1.95	63.82
2420.00	3.06	-23.33	-1.93	64.05
2430.00	2.97	-24.14	-1.95	63.86
2440.00	2.93	-22.11	-2.06	62.30
2450.00	2.72	-22.29	-2.20	60.22
2460.00	2.93	-20.70	-2.06	62.26
2470.00	3.21	-17.59	-1.91	64.37
2480.00	2.94	-16.18	-1.93	64.09
2490.00	3.04	-14.35	-1.67	68.04
2500.00	2.89	-13.21	-1.72	67.22

WIFI Antenna 3D Pattern(2400MHz):

MAX:2.48dBi

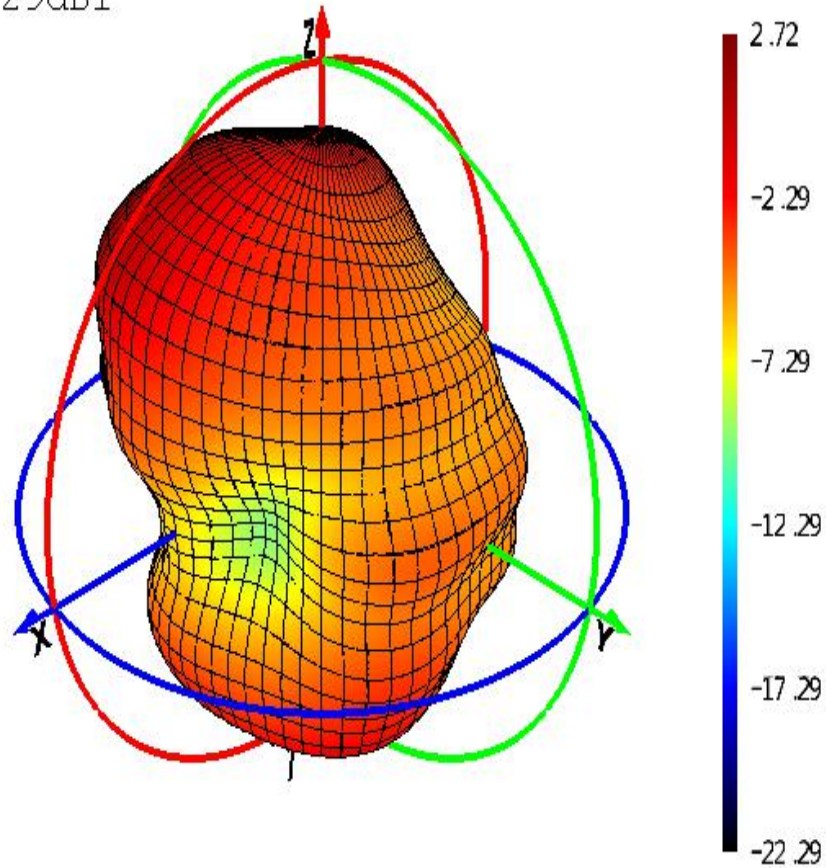
MIN:-24.68dBi



WIFI Antenna 3D Pattern(2450MHz):

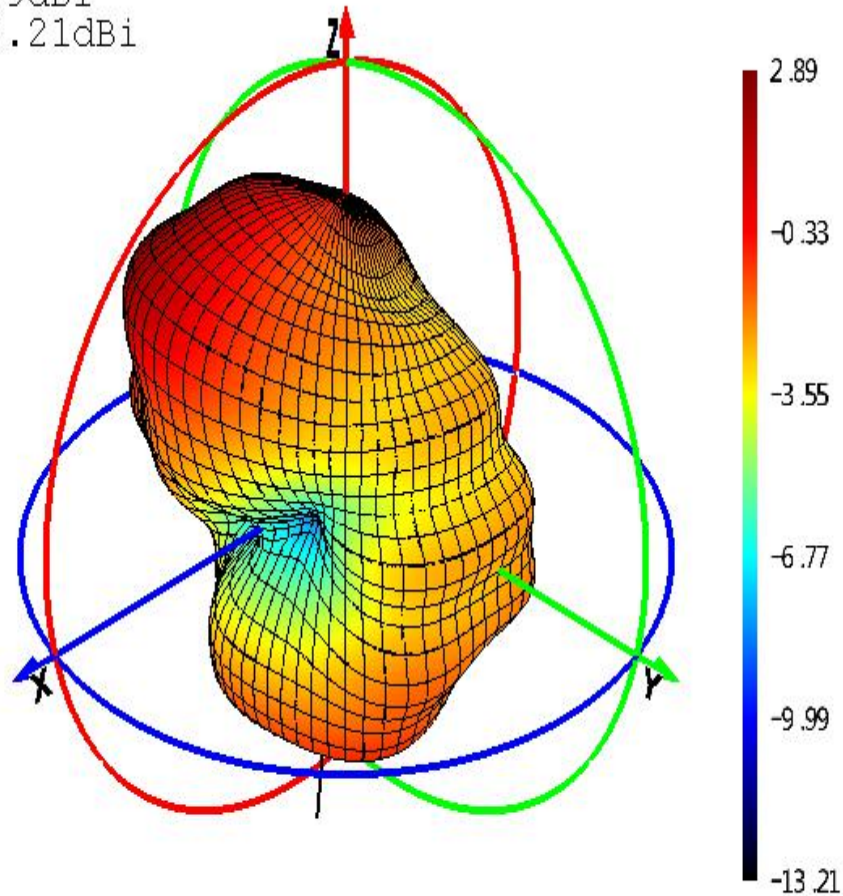
MAX:2.72dBi

MIN:-22.29dBi

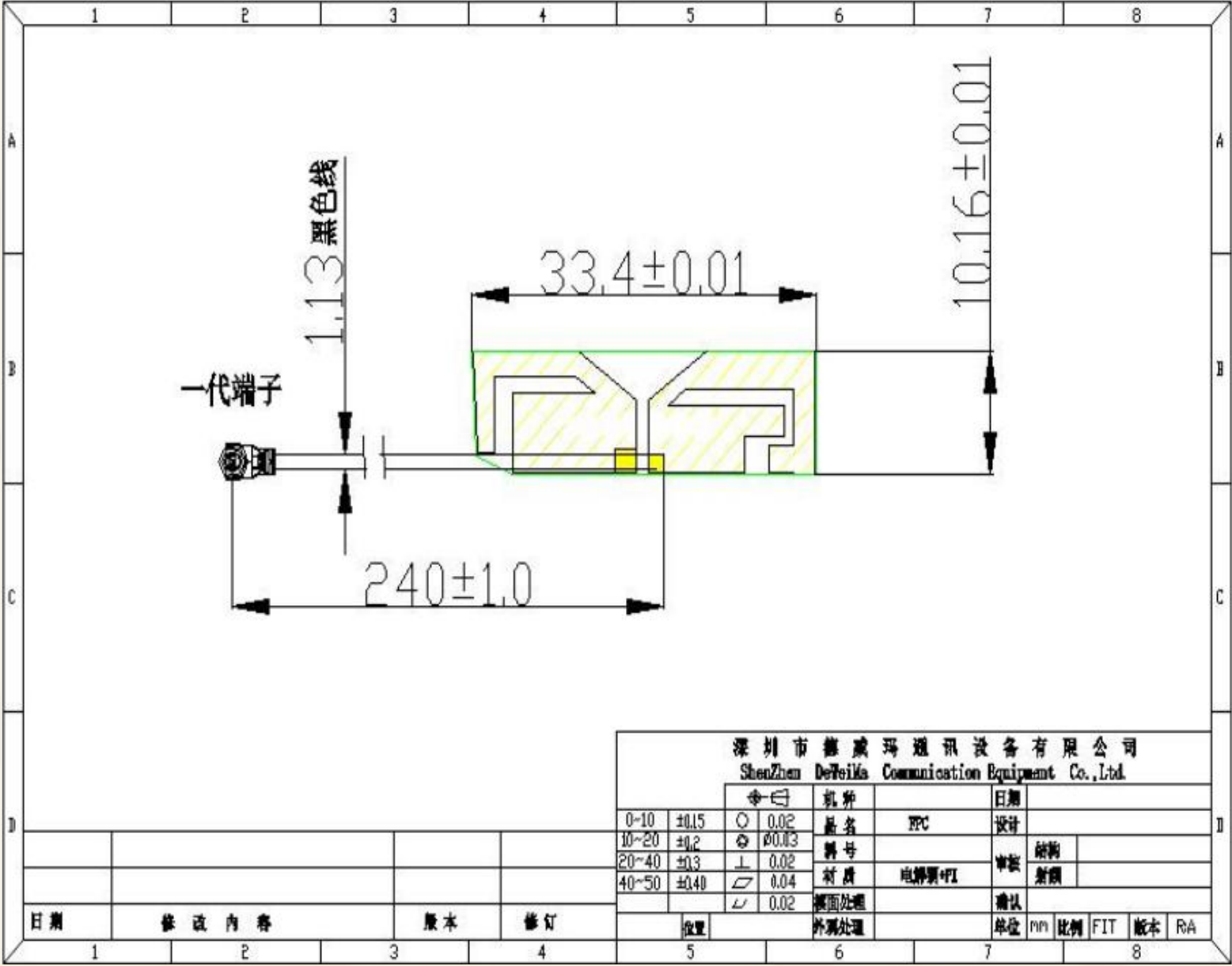


WIFI Antenna 3D Pattern(2500MHz):

MAX:2.89dBi
MIN:-13.21dBi



Engineering Drawing:



Thanks for your support.

DWM Communication Equipment co.,ltd

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