

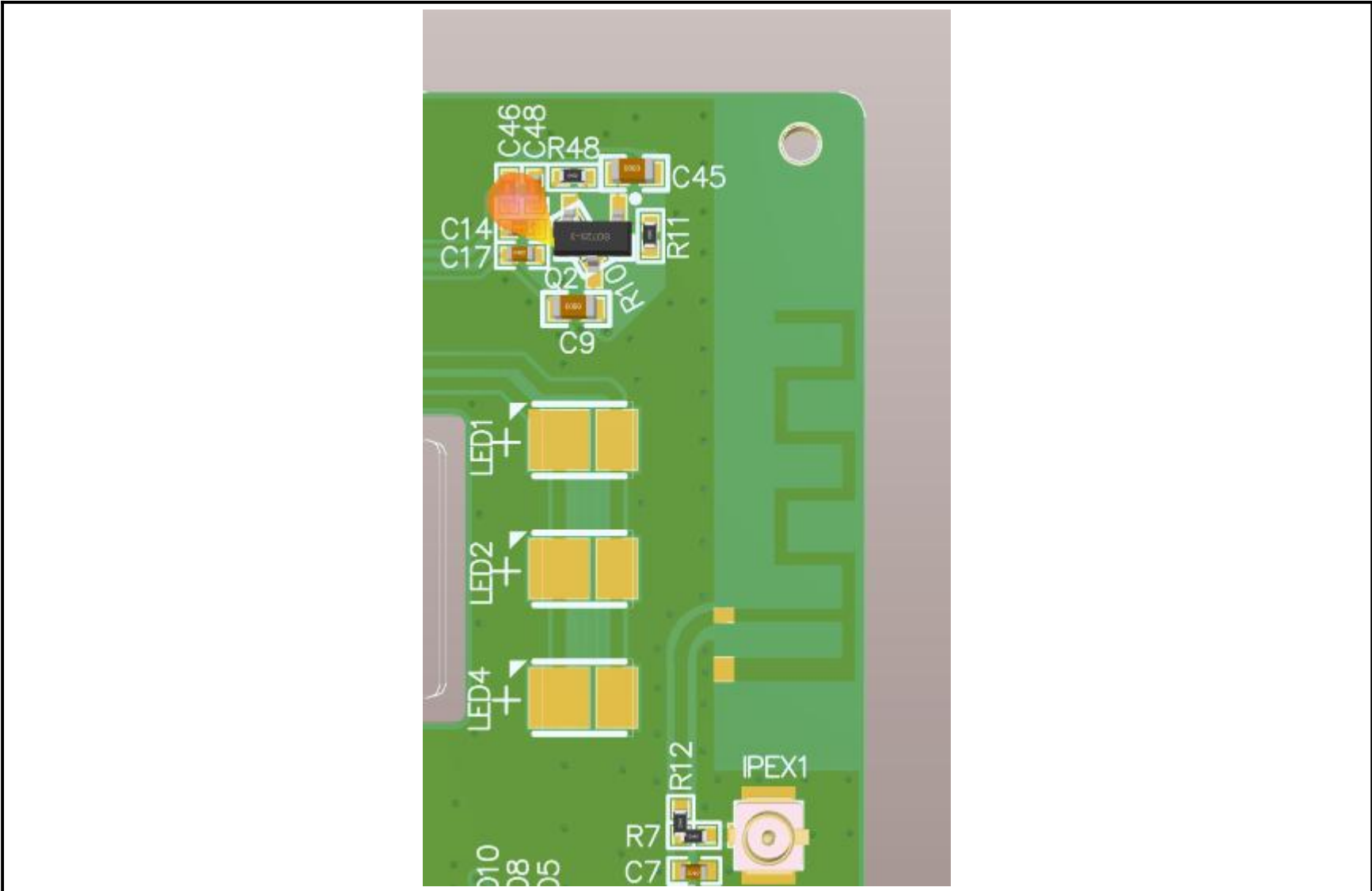
X12 PCB Antenna

Hardware Parameters

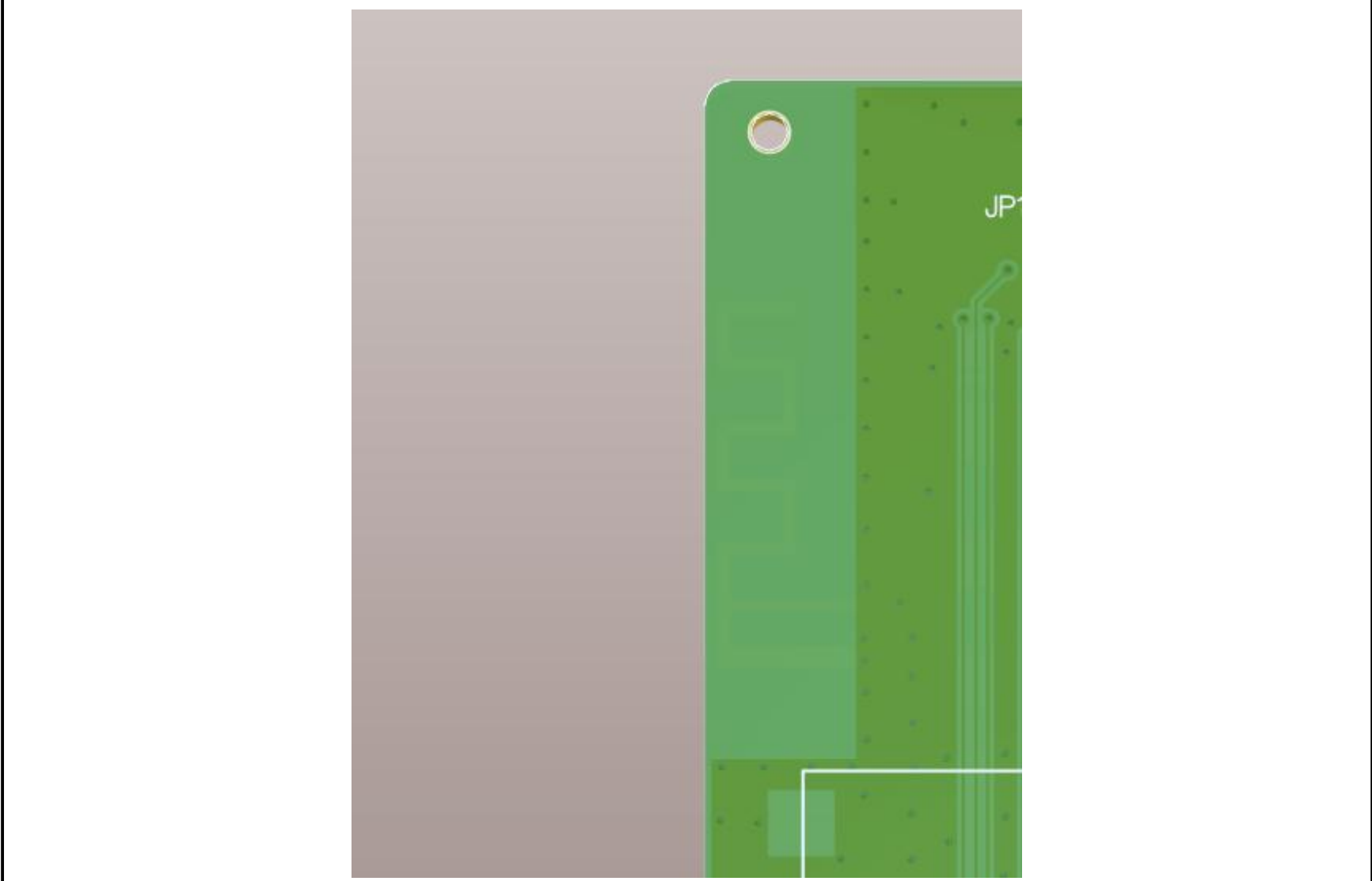
Config	Description
Project Name	X12
Product Model	X12-WIFI
Antenna Material	Copper
Antenna Dimensions	14.4MM*5.4MM
Antenna size	
Antenna frequency	2400–2500Mhz
Antenna impedance	50 Ω
Antenna Standing Wave	<2db,
Return loss	<−10db
Power capacity	3W
Gain(dBi)	3.85(peak)
Installation	Embedded PCBA
Input Voltage	5V/1A
Hardware Version	1.3
Software Version	202406171914

Manufacturer:GuangZhou Qiangui Technology LTD,
Address: Huahui International Plaza, Nansha District, Guangzhou City , XieChangTing

Antenna Photo



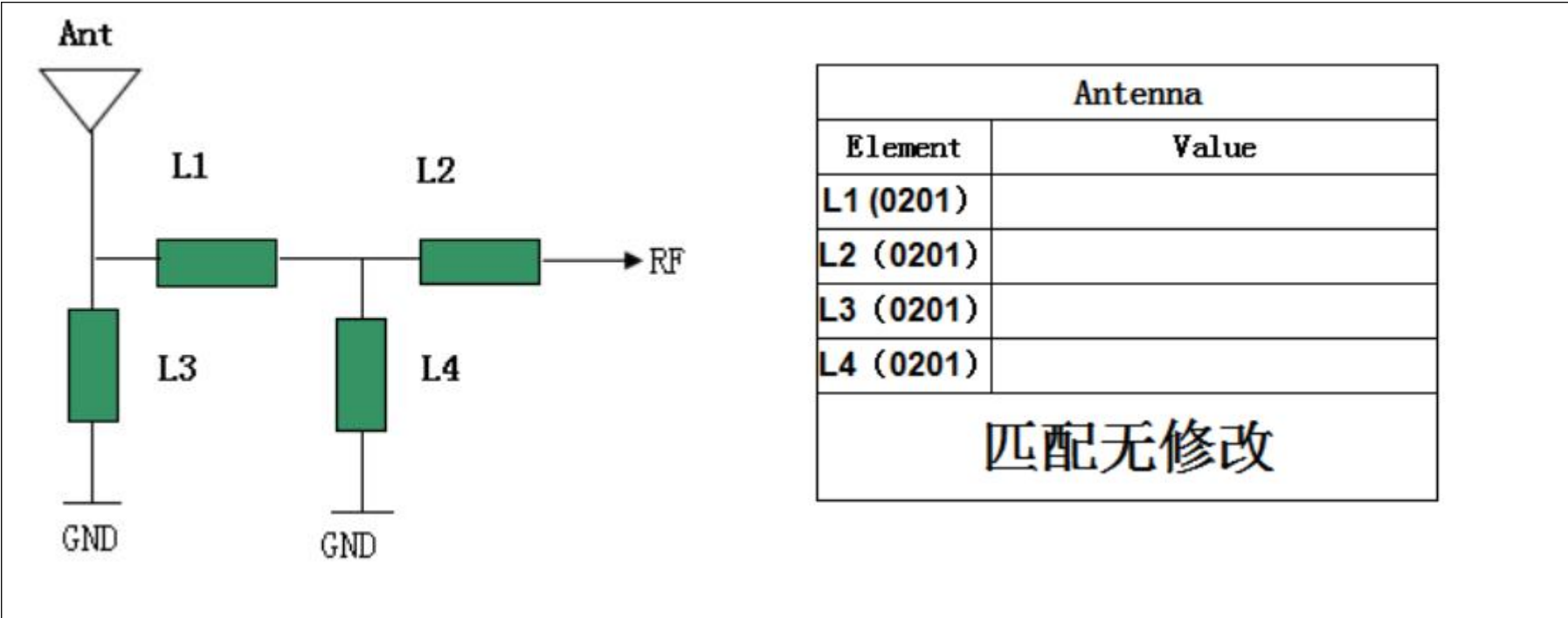
Antenna Top View [With Ruler]



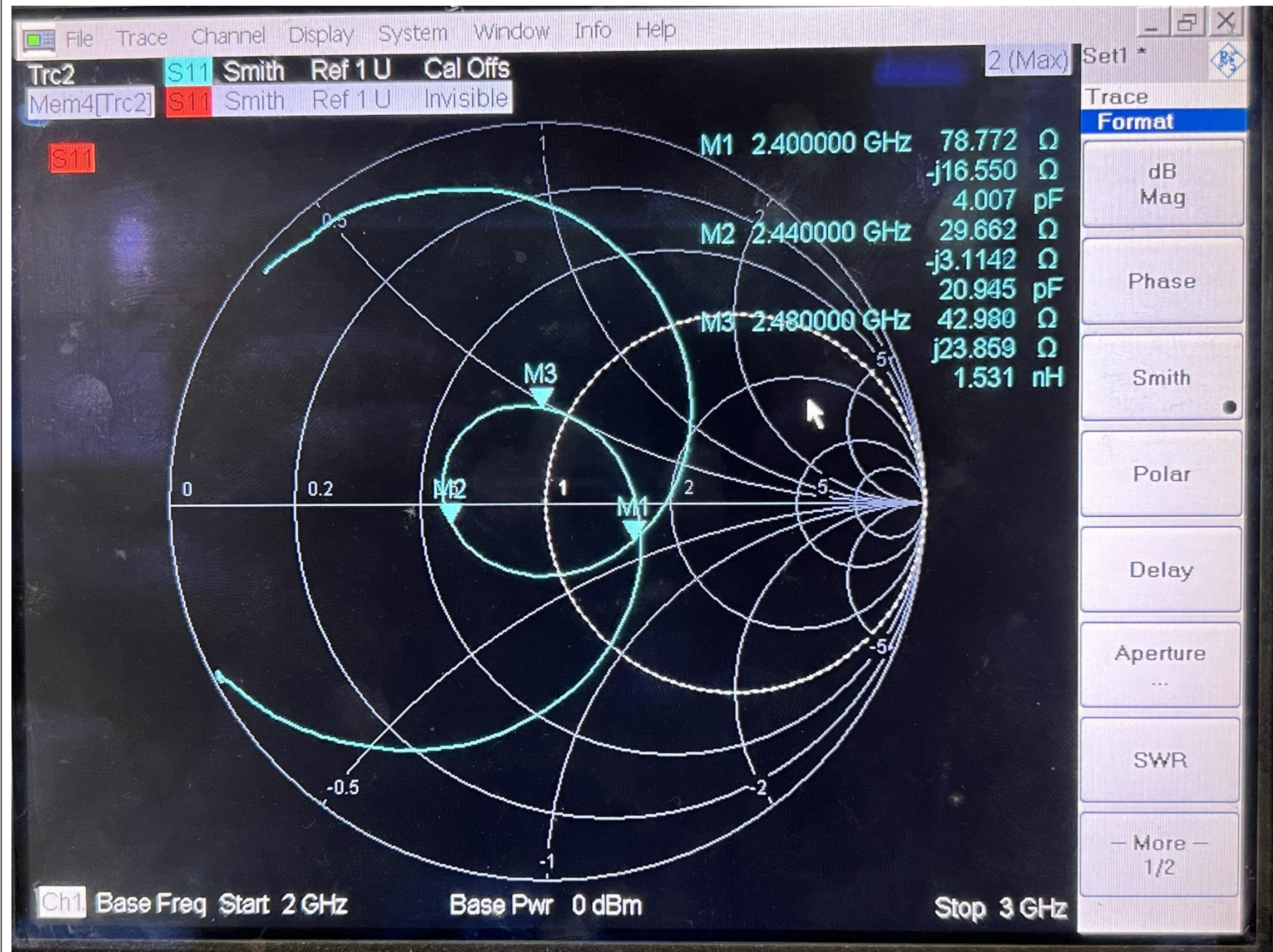
Antenna Bottom View [With Ruler]

Antenna Performance (OTA)

Antenna Matching Recommendations:



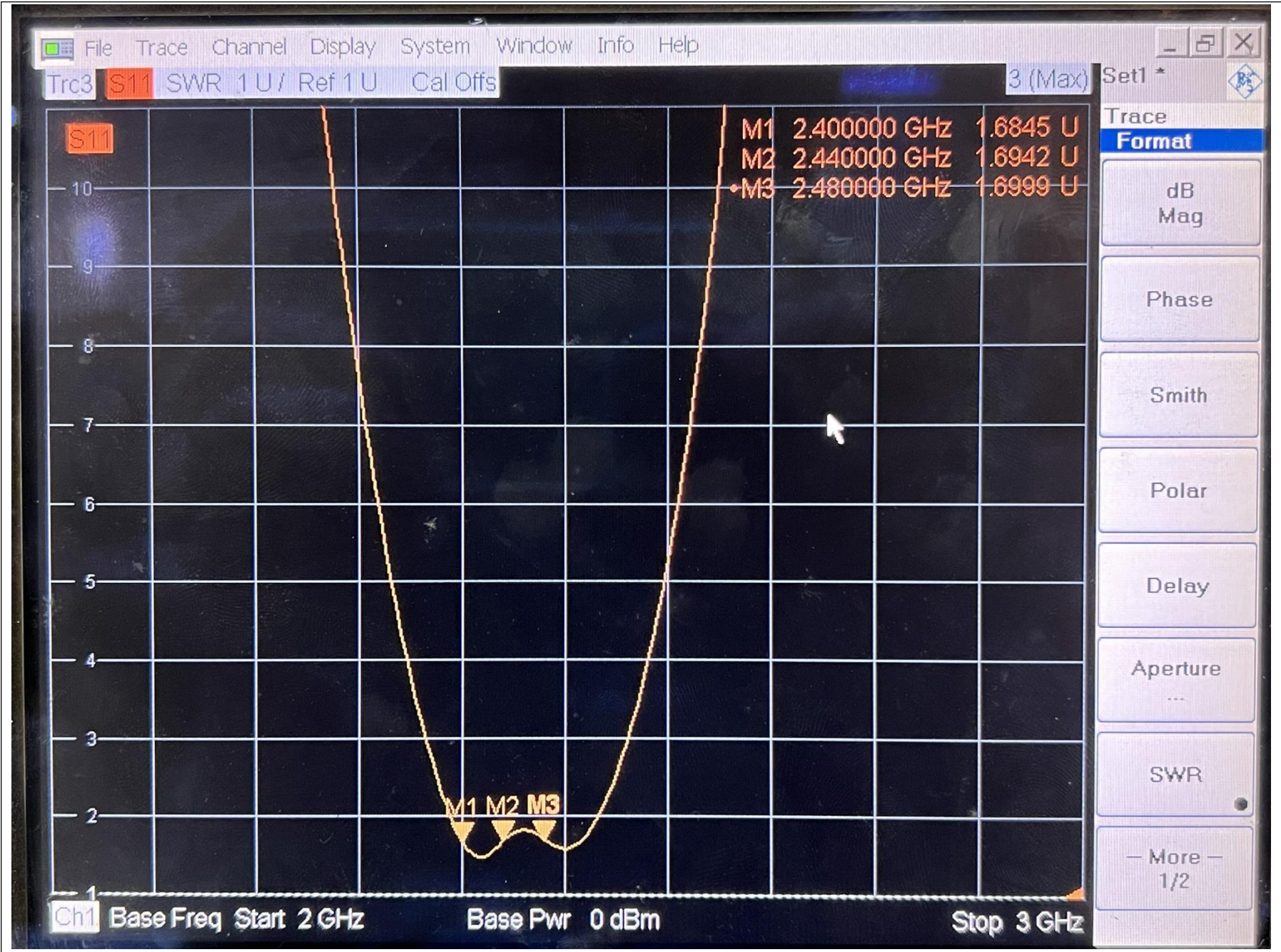
Smith Chart:



Return loss diagram:



Standing wave diagram:



Typical free space gain

Frequency	2400MHz	2410MHz	2420MHz	2430MHz	2440MHz	2450MHz	2460MHz
Gain(dBi)	3.71	3.75	3.62	3.55	3.51	3.72	3.85
Frequency	2470MHz	2480MHz	2490MHz	2500MHz			
Gain(dBi)	3.71	3.54	3.35	3.30			

