

Antenna Test Report



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Project	IC668
Antenna Revision	A0
Prepared by	
Checked by	
Date:	2025.12.19

Purpose

This report is to measure the performance of antenna for IC668. The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 ***S₁₁ Parameter-VSWR***
 - 2. Gain & Efficiency***
 - 3. 2D Pattern***

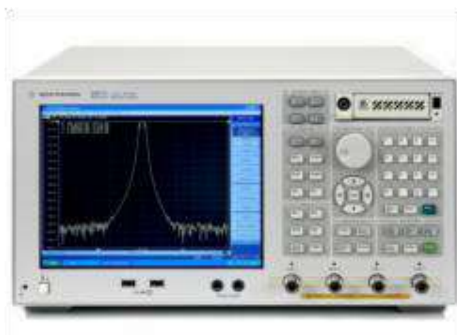
1. Product Overview & Dimension

样机图片

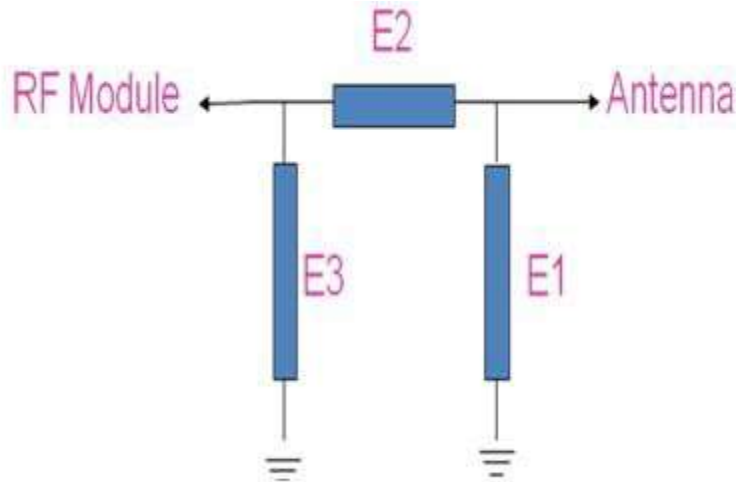


2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



3. Antenna Matching Network



Element	Value
E1	/
E2	/
E3	/
	Sizeφ3*12.5

The PCB board end matching circuit has not been modified.

4. Test Result

4.1 S11 Parameter-VSWR-5#



Frequency	2400	2450	2500
VSWR	5.68	5.90	5.92

4. Test Result

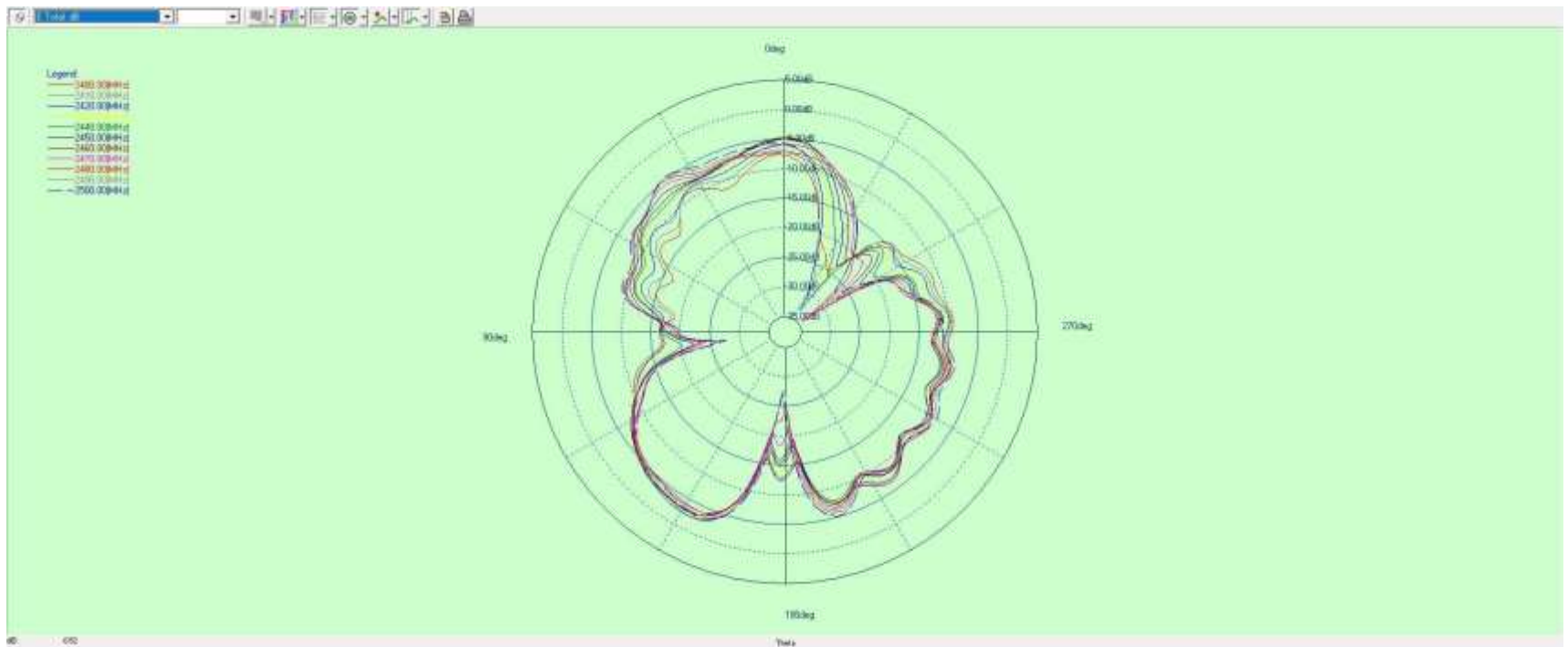
4.2 Gain & Efficiency-1#

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	11.08%	-1.35
2410	11.20%	-0.90
2420	11.59%	-0.67
2430	11.50%	-1.00
2440	10.56%	-1.42
2450	11.06%	-1.24
2460	11.94%	-1.21
2470	12.17%	-1.32
2480	11.83%	-1.65
2490	12.38%	-1.25
2500	13.19%	-1.11

4. Test Result

4.3 2D Pattern

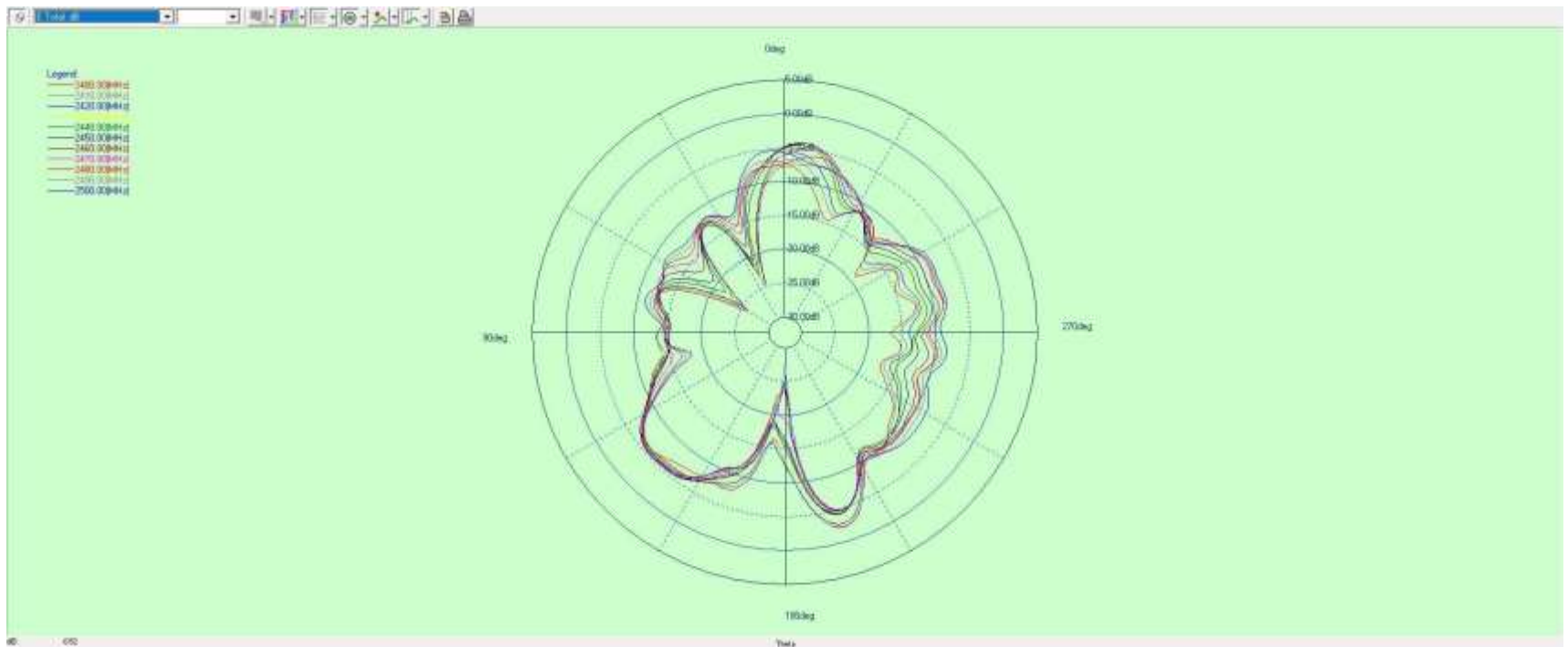
$\Phi=0$



4. Test Result

4.3 2D Pattern

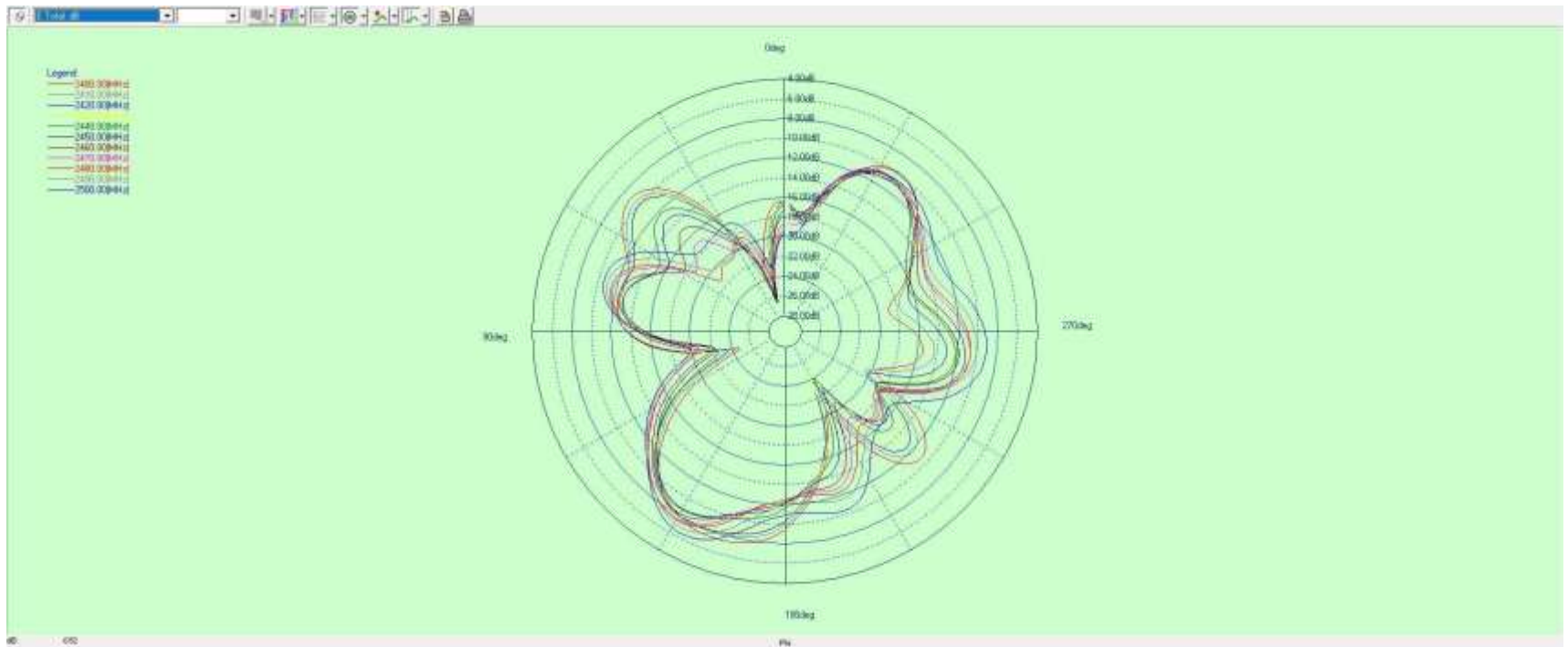
Phi=90



4. Test Result

4.3 2D Pattern

Theta=90



天线尺寸图



Thank you !

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