

Antenna Test Report

Customer	/
Project	OM-WXCD-V1.0
Antenna Revision	A0
Prepared by	
manufacturer	Shenzhen City Heyang smart card
Date:	2024/12/09

Purpose

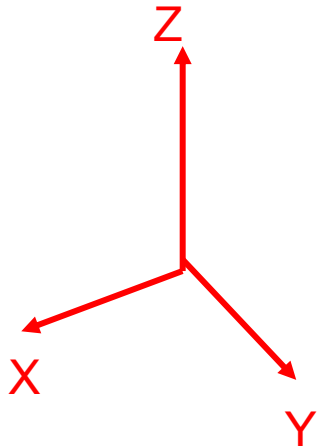
This report is to measure the performance of antenna [OM-WXCD-V1.0](#) .The antenna operating frequency at [2400-2500MHz](#) All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 ***S11 Parameter-VSWR***
 - 4.2 ***Gain & Efficiency***
 - 4.3 ***2D Pattern***
5. Conclusion

1.Product Overview & Dimension

Antenna

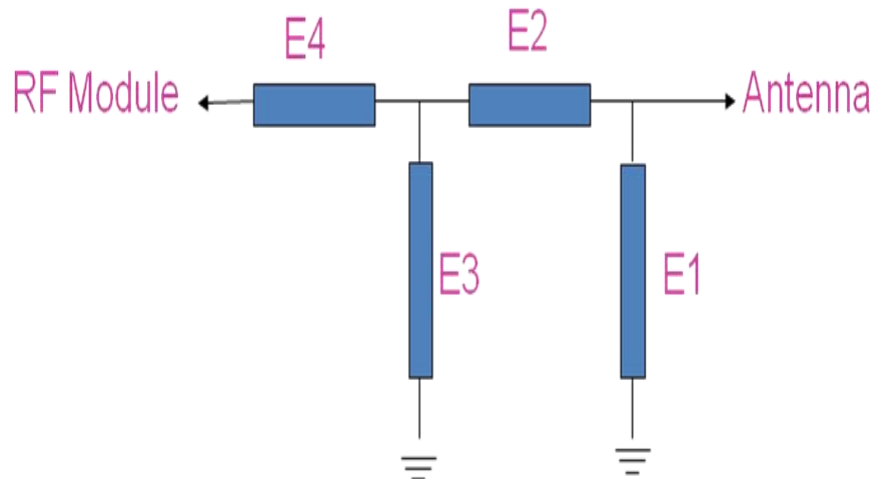


2. Test System

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

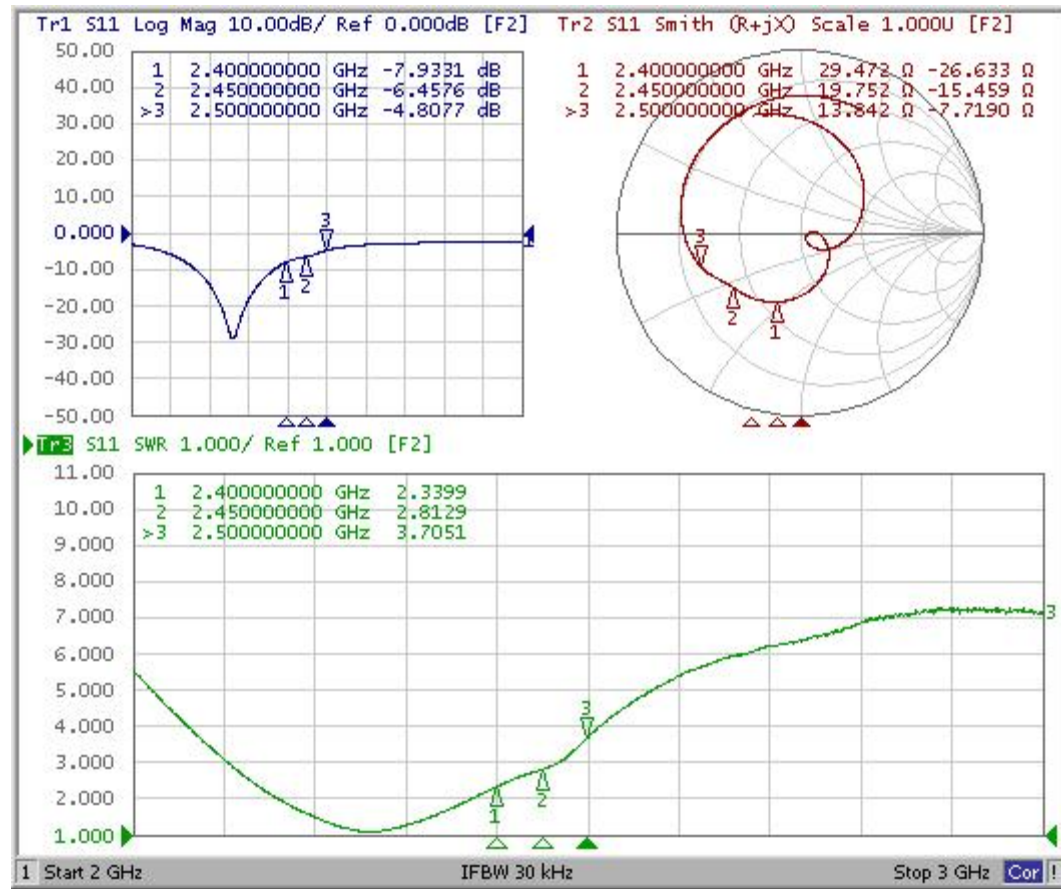


Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

PCB end matching circuit is unchanged

4. Test Result

4.1 S11 Parameter-VSWR



Frequency	2400	2450	2500
VSWR	2.33	2.81	3.70

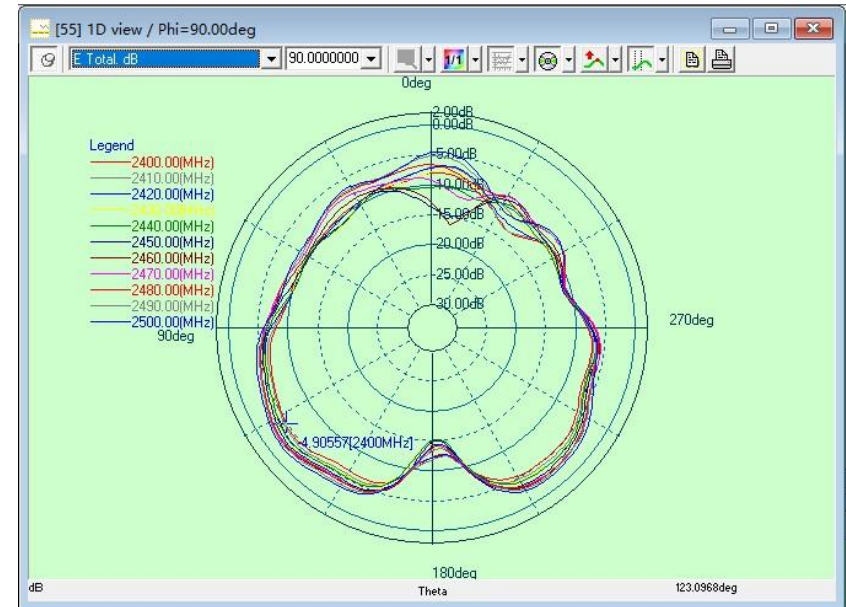
4. Test Result

4.2 Gain & Efficiency

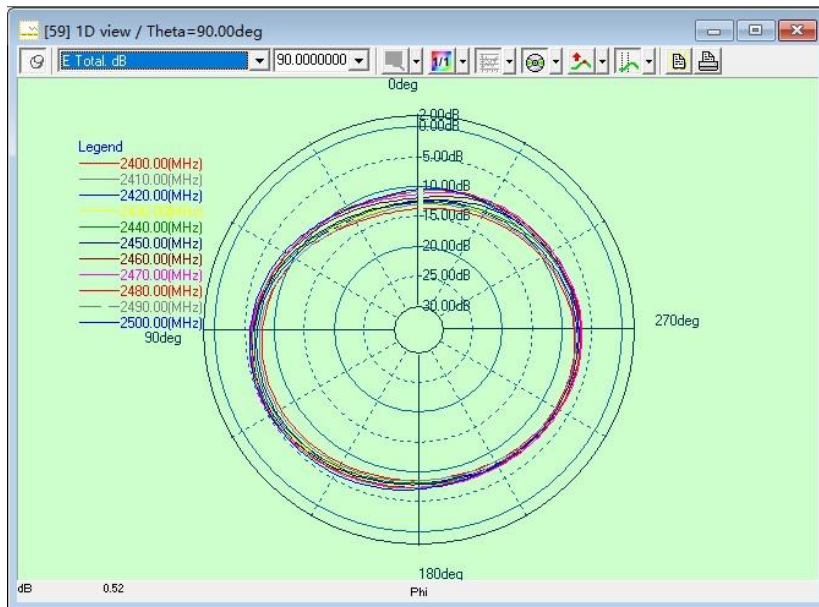
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	16.2%	-3.94
2410	17.2%	-3.37
2420	18.4%	-2.93
2430	18.6%	-3.03
2440	18.1%	-3.08
2450	19.1%	-2.62
2460	20.8%	-2.28
2470	21.0%	-2.27
2480	20.9%	-2.21
2490	21.5%	-1.76
2500	23.0%	-1.54

4. Test Result

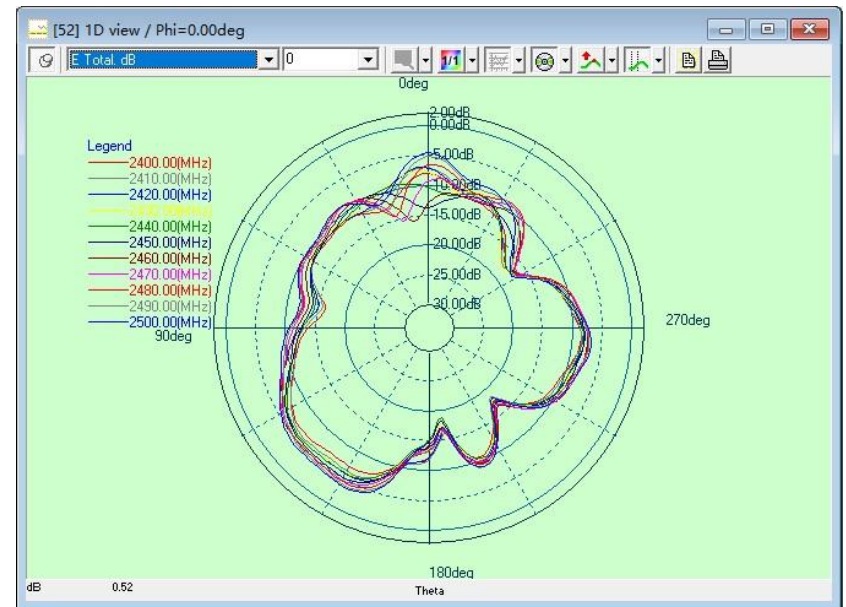
4.3 2D Pattern



Z-X



X-Y



Z-Y

Thank you !
ευχαριστώ !