

Antenna Test Report

Customer	/
Project	BR9-R4蓝牙天线
Antenna Revision	A0
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manufacturer	深圳市合扬智能卡
Date:	2024/05/24

Purpose

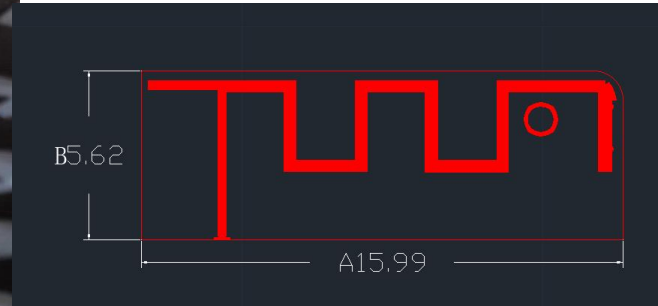
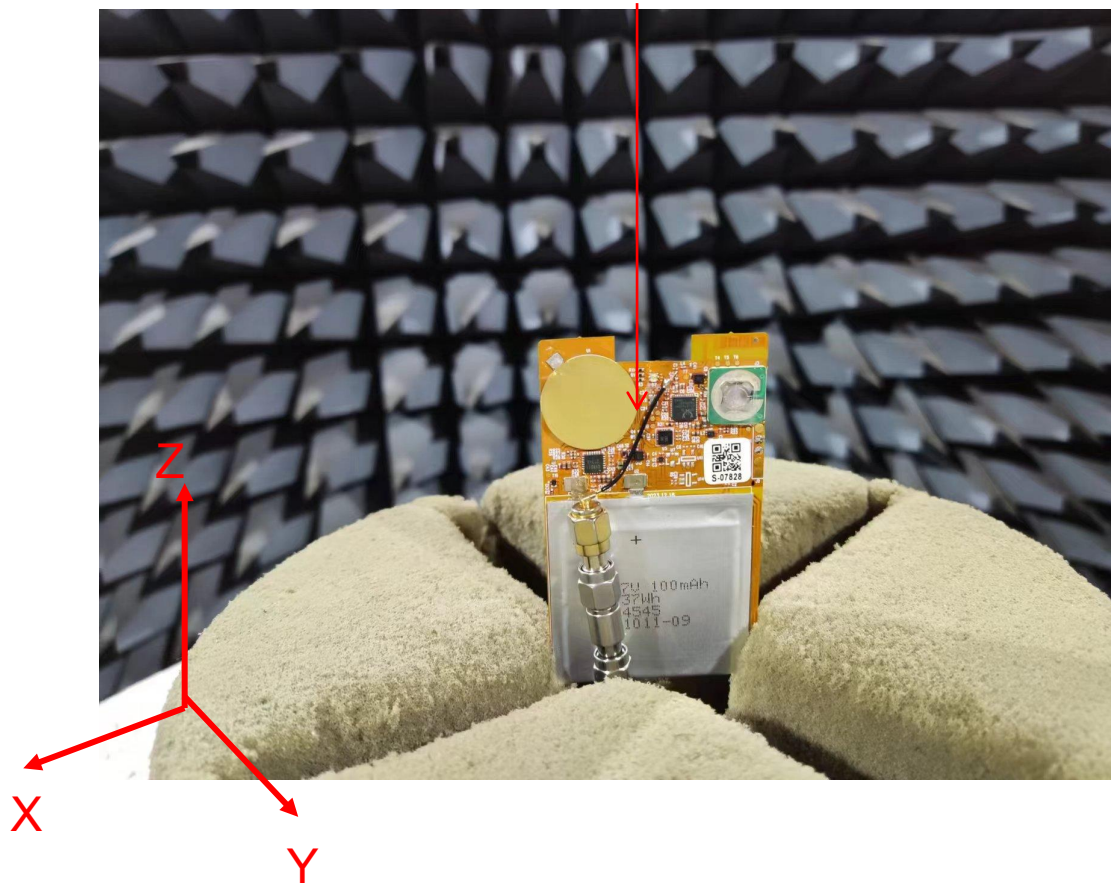
This report is to measure the performance of antenna [蓝牙天线](#).The antenna operating frequency at [2400-2500MHz](#) All test data are showed as below.

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1. Product Overview & Dimension

Antenna

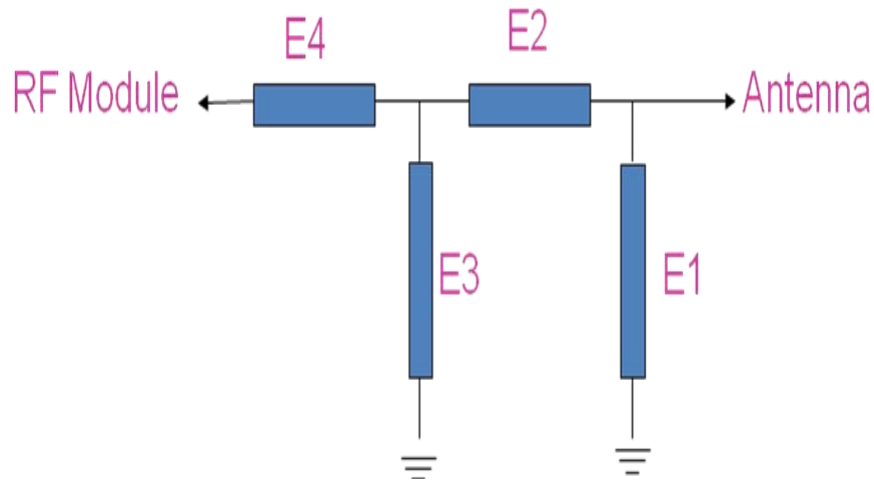


2. Test System

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

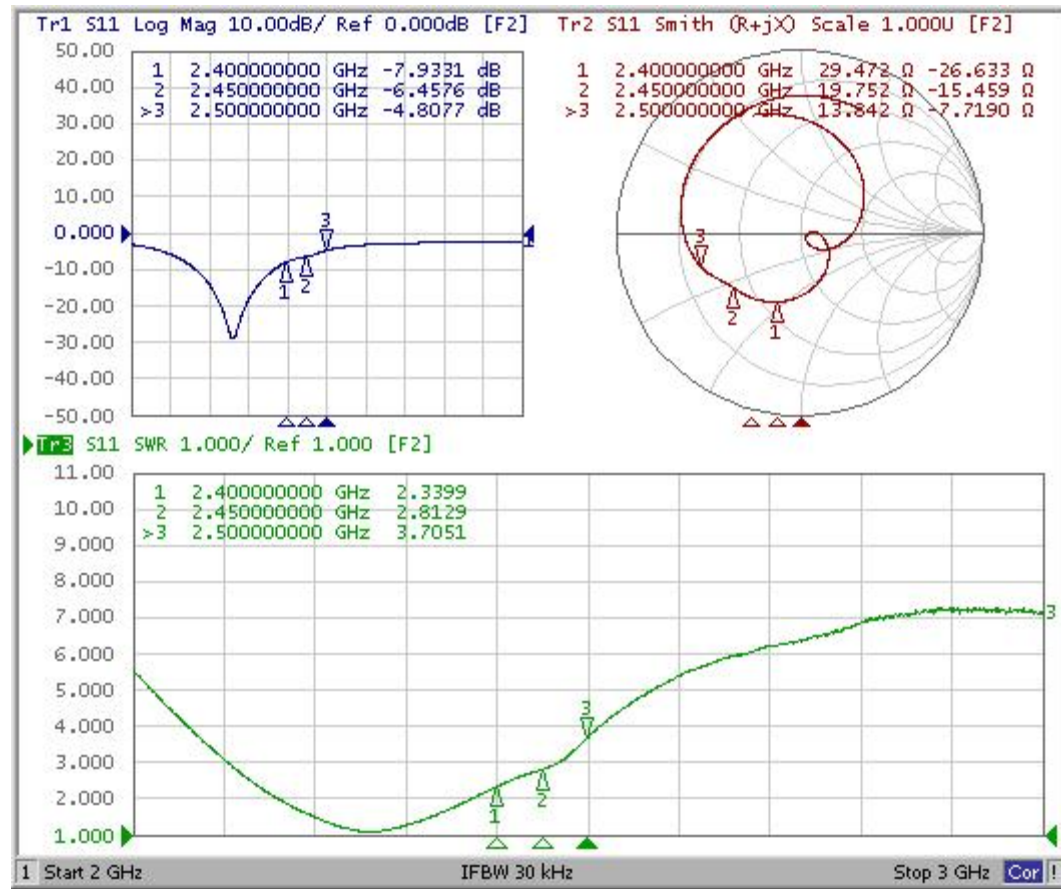


Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

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4. Test Result

4.1 S11 Parameter-VSWR



Frequency	2400	2450	2500
VSWR	2.33	2.81	3.70

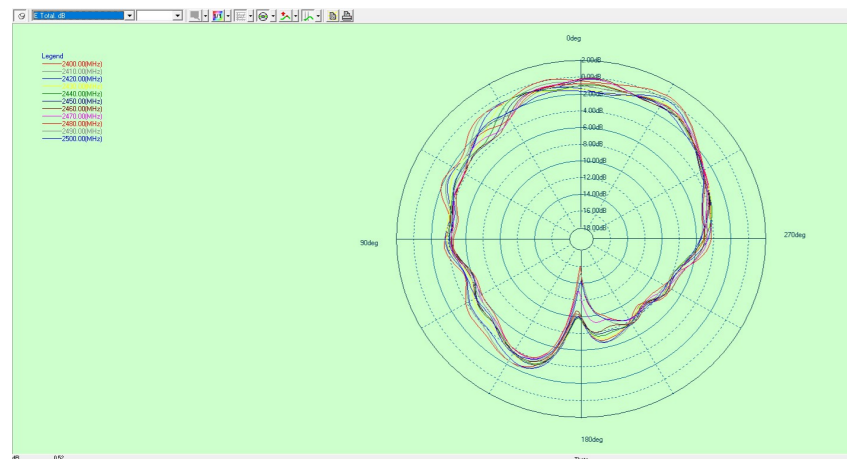
4. Test Result

4.2 Gain & Efficiency

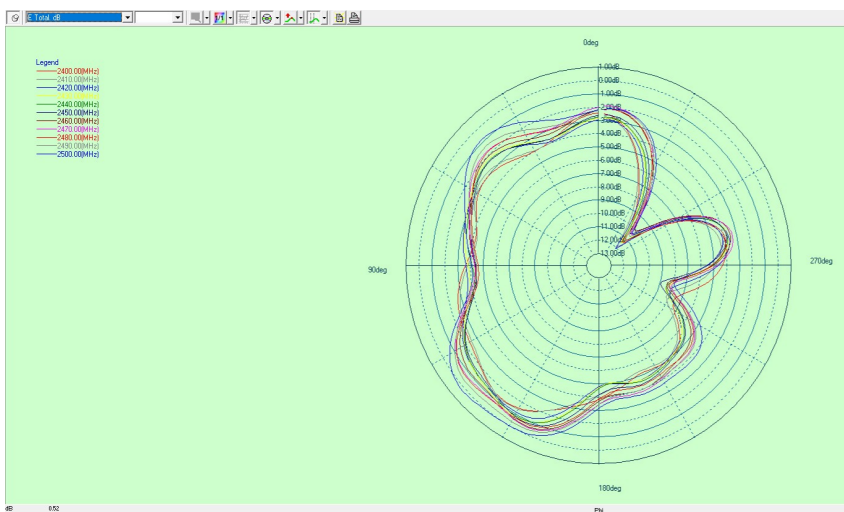
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	16.2%	0.1
2410	17.2%	0.1
2420	18.4%	0.2
2430	18.6%	0.1
2440	18.1%	0.3
2450	19.1%	0.2
2460	20.8%	0.1
2470	21.0%	0.3
2480	20.9%	0.1
2490	21.5%	0.2
2500	23.0%	0.3

4. Test Result

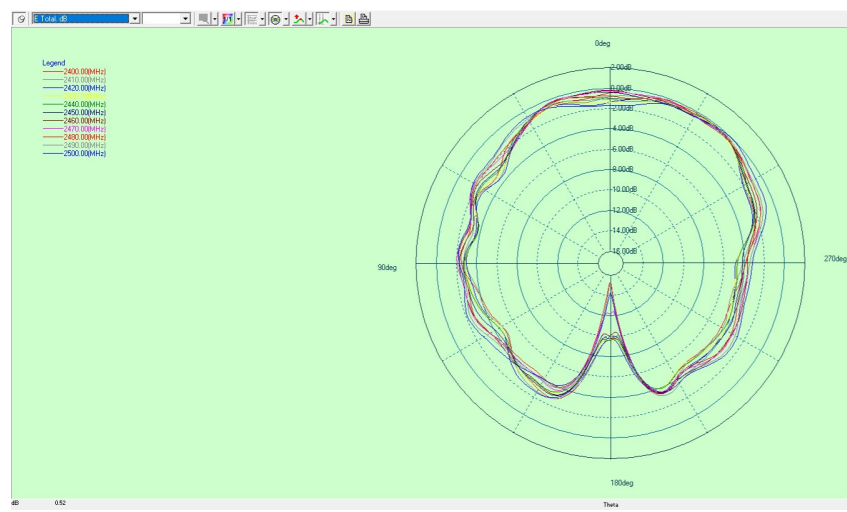
4.3 2D Pattern



Z-X



X-Y



Z-Y

Thank you !