

天线测试报告

Antenna Testing report

日期
DATE: 2025. 7. 31

版本
REV.: V01

客 户
CUSTOMER: _____

客 户 料 号
CUSTOMER P/N: _____
Booster S1.2

品 名
PART NAME: _____

供 方 料 号
SUPPLIER P/N: _____

送样日期 **Date:** _____ 送样数量 **Q'TY:** _____

客户确认 CUSTOMER APPROVED BY		
工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

供方确认 SUPPLIER SIGNATURE		
研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

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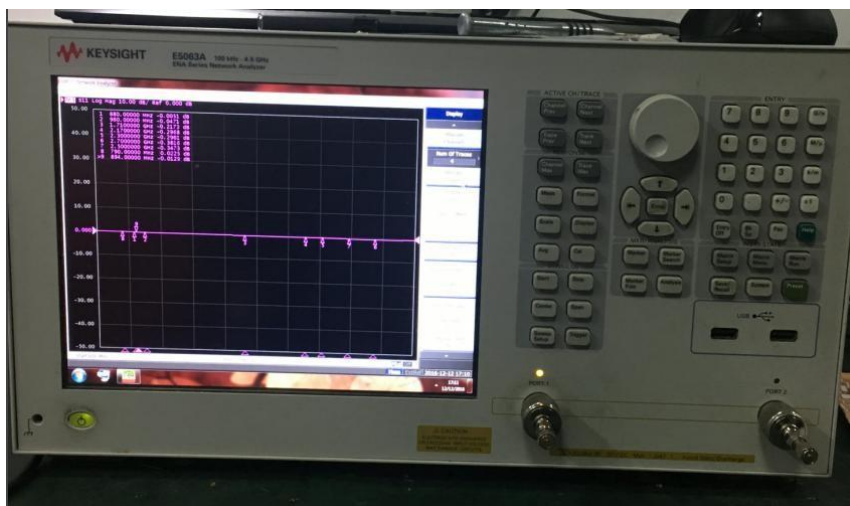
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1.RF Fixture Experiment

1.1 Test Setup

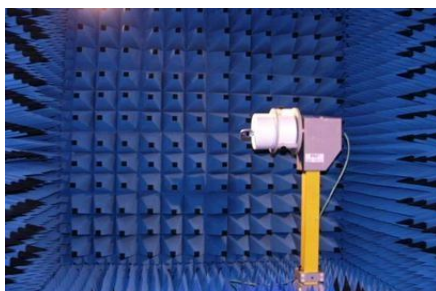
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also teste. The testing was performed with apparatus in free space.

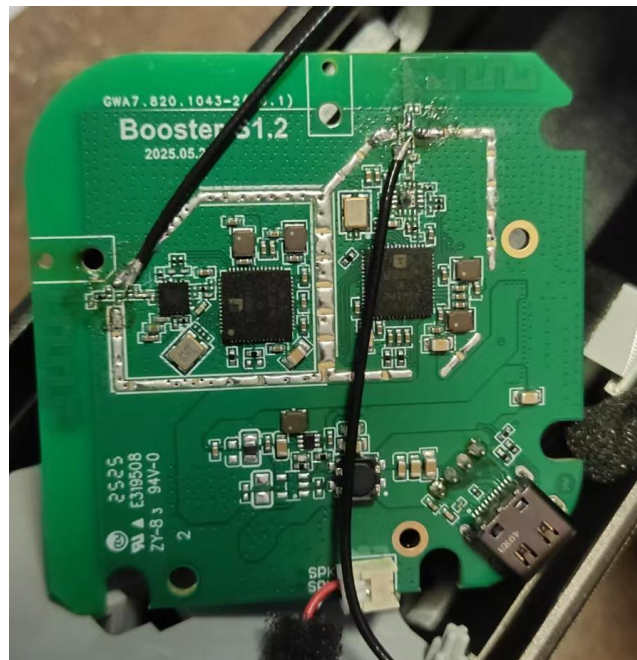


1.1.2 Anechoic Chamber Test Setup

When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture



2.Test Antennas' setup and enviroment With housing



3. Peak Gain & Efficiency

speaker ANT for master

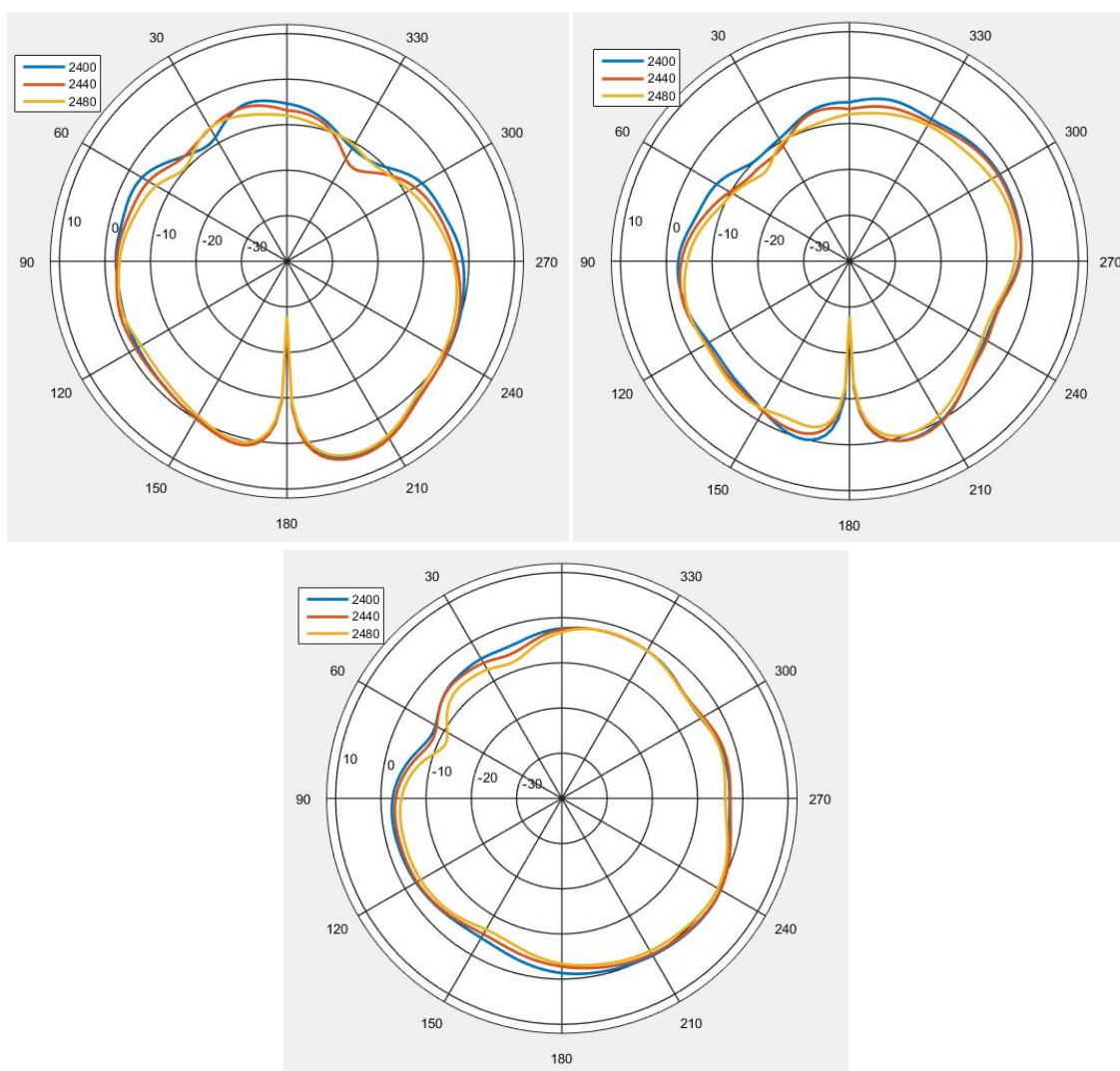
Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400	5.7895	54.7182
2410	6.0017	55.5377
2420	6.2266	56.3378
2430	6.2801	55.4753
2440	6.1968	53.7238
2450	5.9995	51.1013
2460	5.7592	48.1277
2470	5.6158	46.5352
2480	5.3752	44.0687
2490	5.2833	42.9472
2500	4.9823	40.5911

speaker ANT for slave

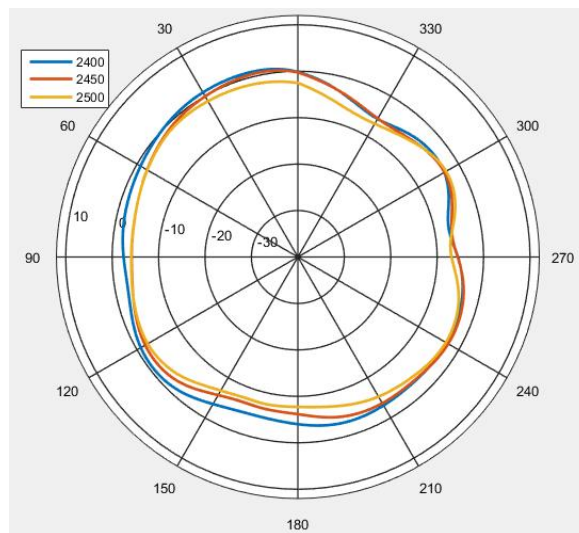
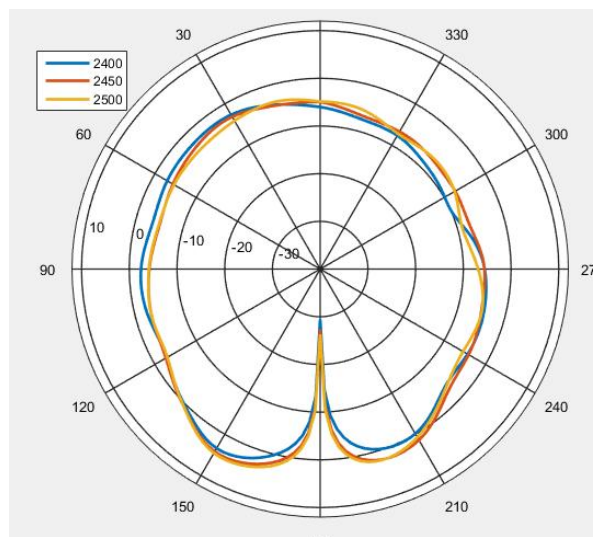
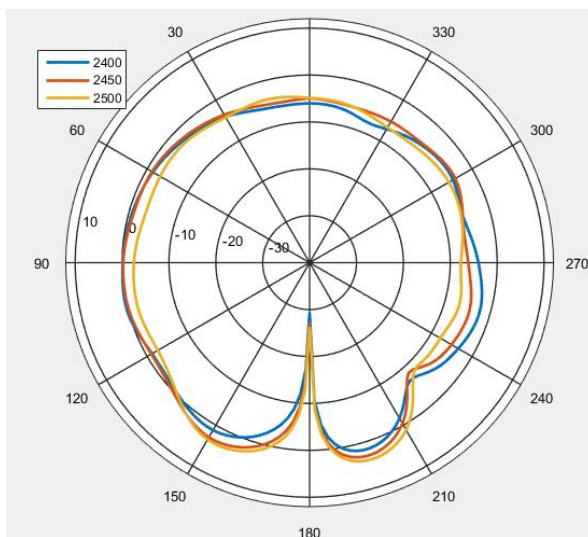
Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400	4.9447	59.5298
2410	5.205	60.5065
2420	5.5532	62.0646
2430	5.8484	62.7143
2440	6.0583	63.0378
2450	6.1691	62.6693
2460	6.3088	63.0959
2470	6.3623	62.4647
2480	6.4661	61.9224
2490	6.5207	60.1145
2500	6.5195	58.5692

4. 2D

speaker ANT for master

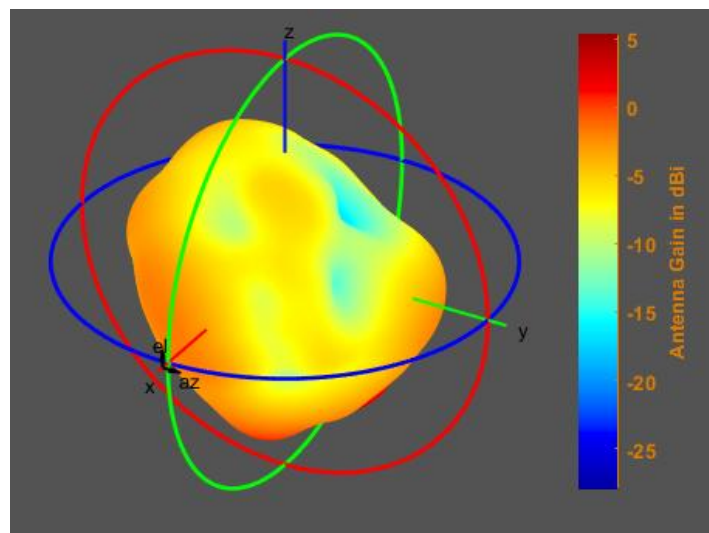
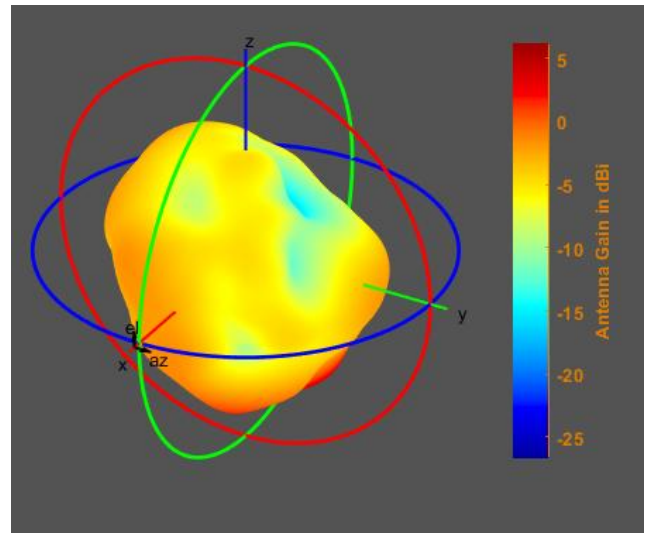
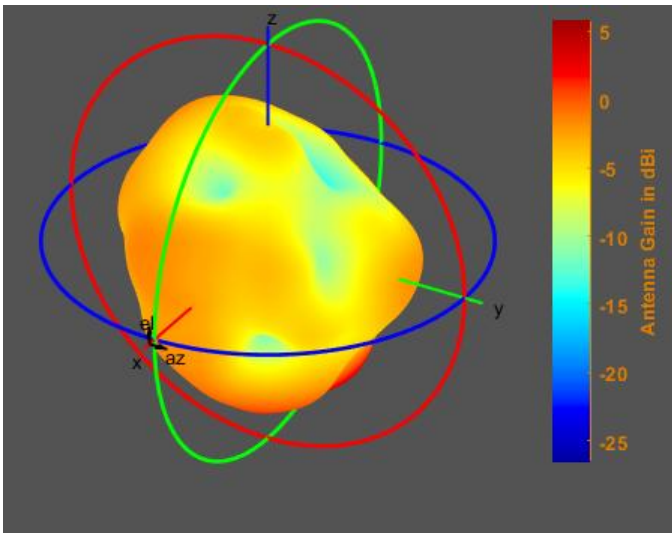


speaker ANT for slave



5. 3D

speaker ANT for master



speaker ANT for slave

