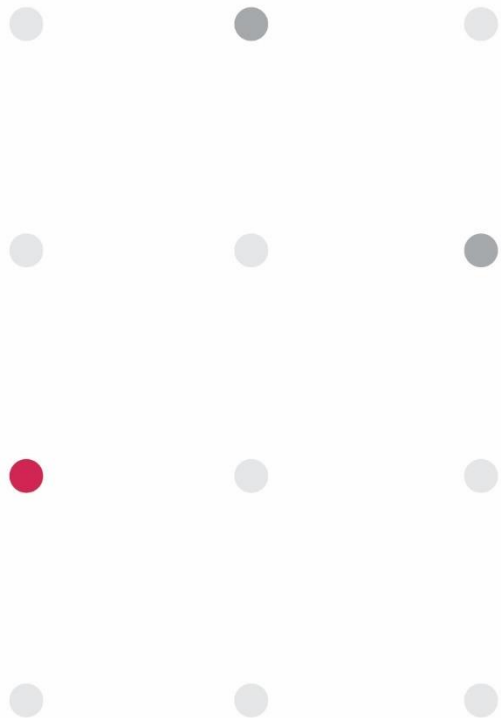


PSA

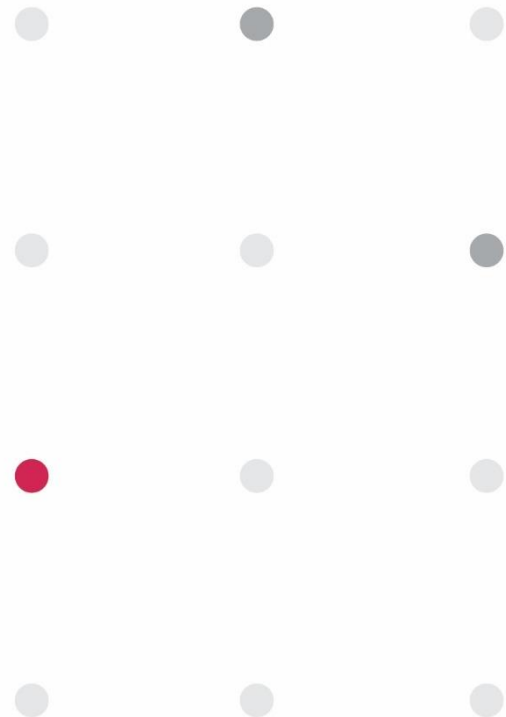
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



東聚 Yara_VR Controller (R)

Presented by

Gary

2023/04/27

Version	Date	Description	Author
V01	2022/06/23	Simulation	Monkey Chang
V02	2022/11/09	Antenna Simulation Report	Gary
V03	2022/12/01	Left hand & Right antenna measurement	Gary
V04	2022/12/15	Optimize Left hand antenna measurement	Gary
V05	2023/04/24	Left hand EVT antenna measurement	Gary
V06	2023/04/27	Right hand EVT antenna measurement	Gary

Test 2

東聚 Yara_VR Controller (R) Optimization

OUTLINE

1. Measurement Information

- 1.1 Experimental Setup
- 1.2 Antenna Solution Detail

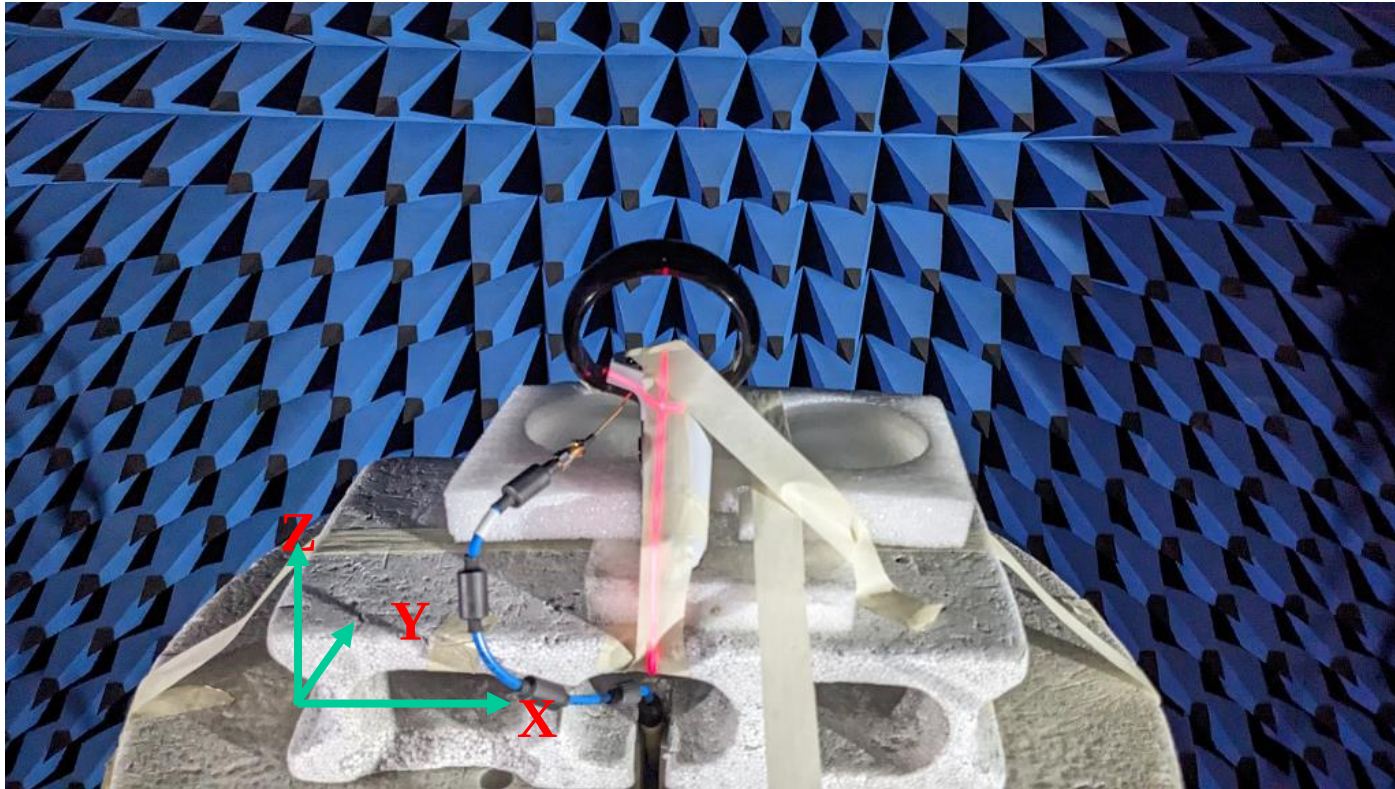
2. Antenna Characteristics

- 2.1 S-Parameter
- 2.2 Antenna Efficiency and Peak Gain
- 2.3 3 views of antenna & 2D Radiation Patterns & 3D Radiation Patterns

3. Summary

1. Measurement Information

1.1 Experimental Setup



1. Measurement Information

1.2 Antenna Solution Detail

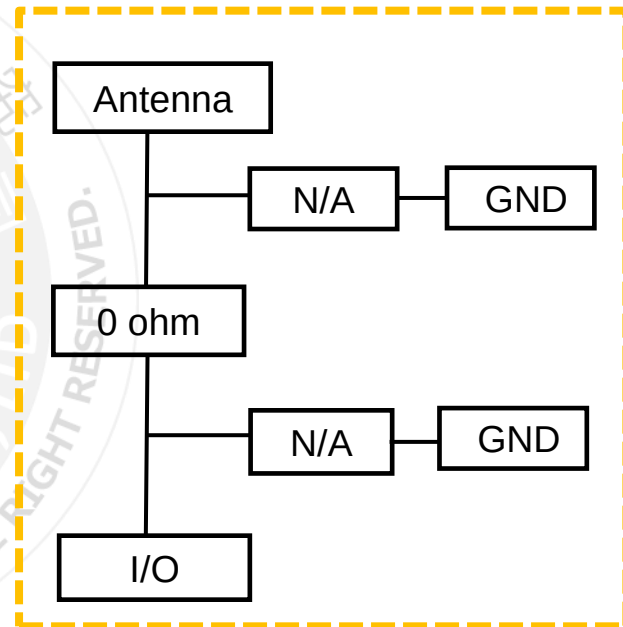
WIFI@2G (PIFA)



WIFI@2G (PIFA)



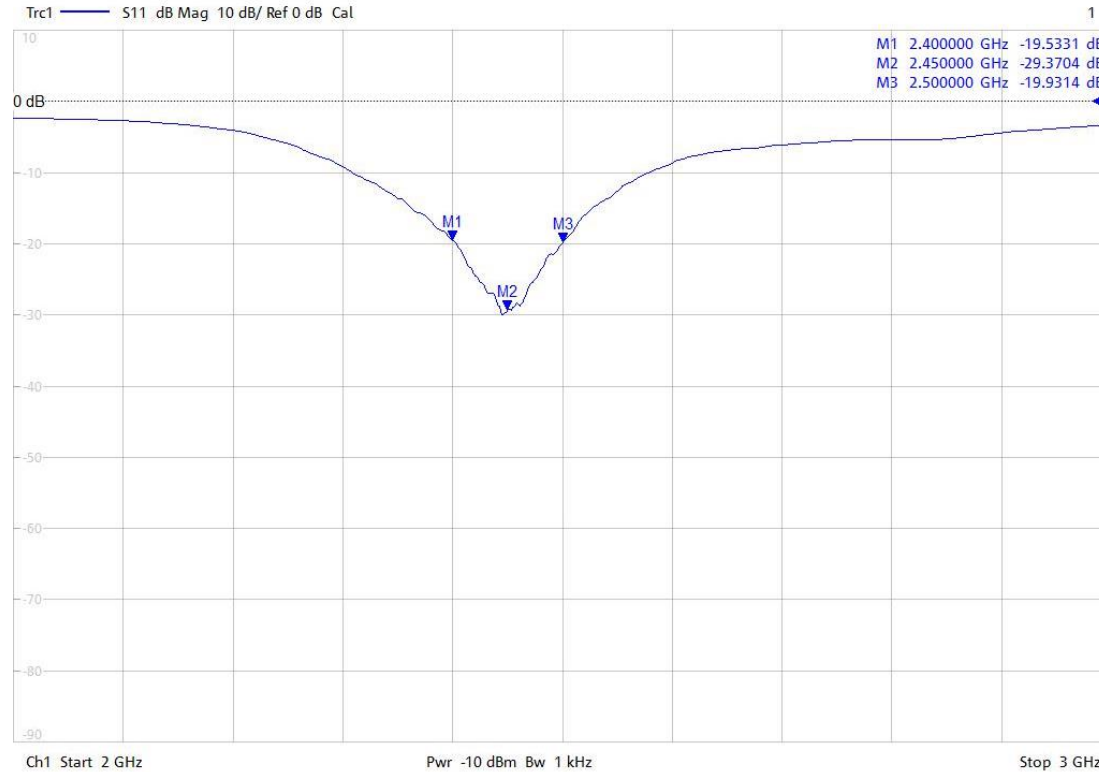
Matching values



2. Antenna Characteristics

WIFI@2G

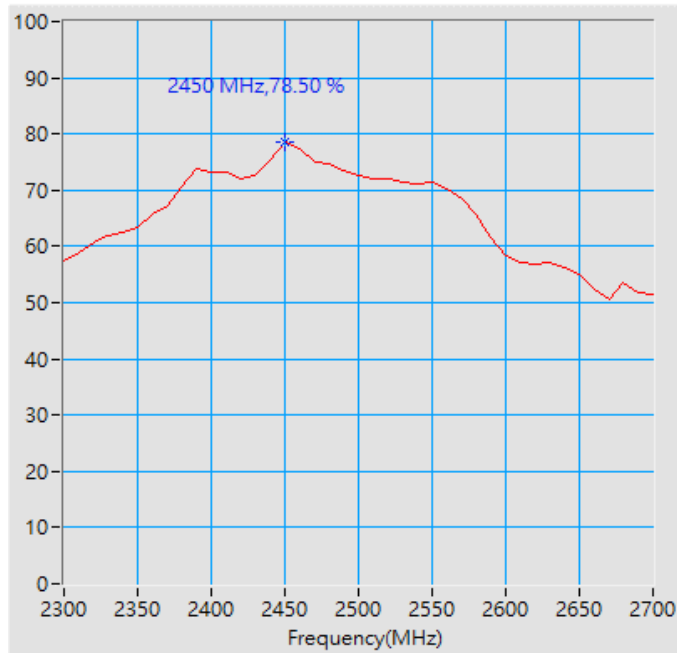
2.1 S-Parameter



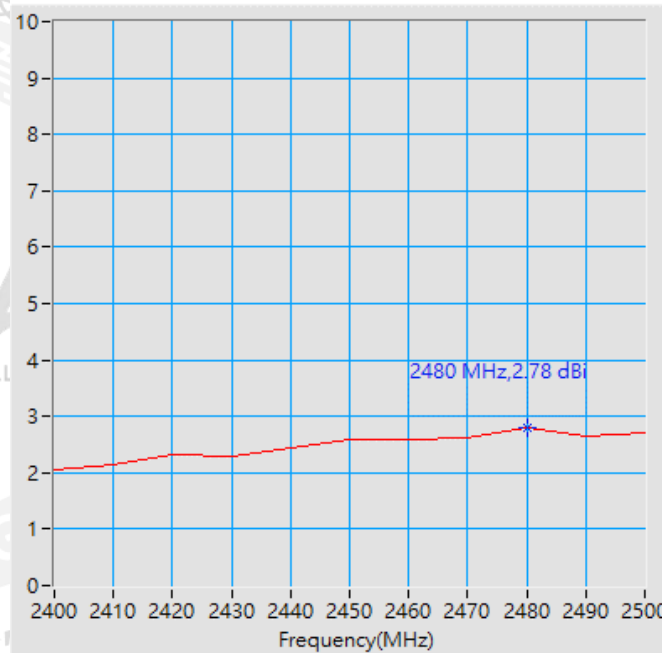
2. Antenna Characteristics

WIFI@2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2450 MHz : 78.5 %



Maximum Peak Gain at 2480 MHz : 2.78 dBi

2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

	WIFI@2G	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	73.29	2.05
2450	78.50	2.59
2500	72.55	2.72

2. Antenna Characteristics

2.3 3 views of antenna

X-Z plane



Y-Z plane



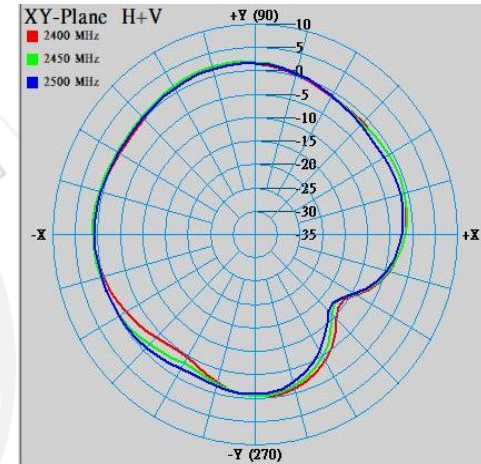
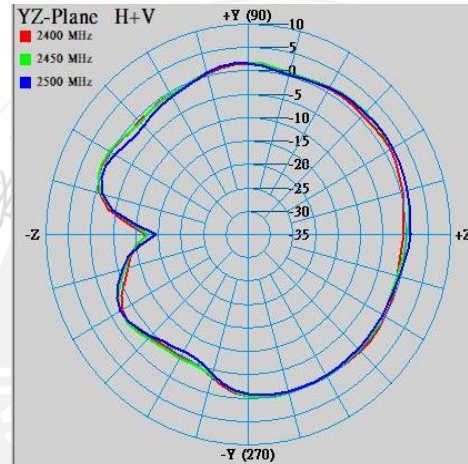
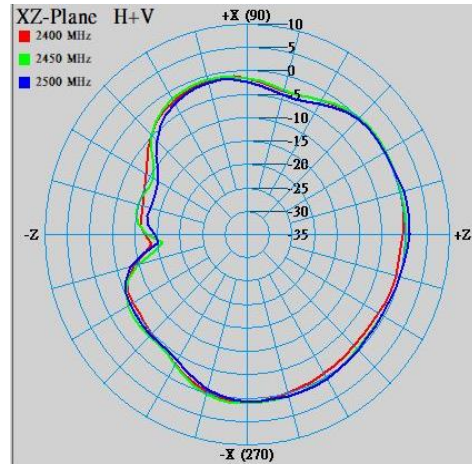
X-Y plane



2. Antenna Characteristics

WIFI@2G

2.3 2D Radiation Patterns

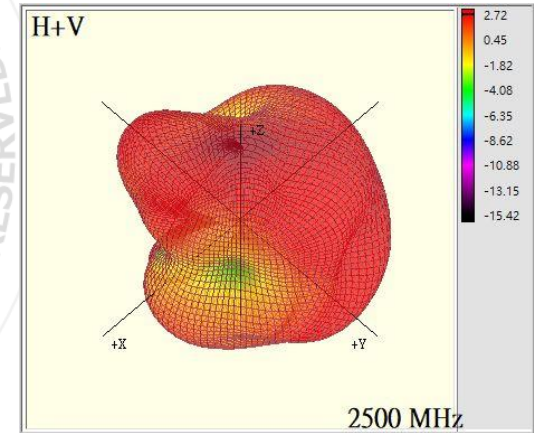
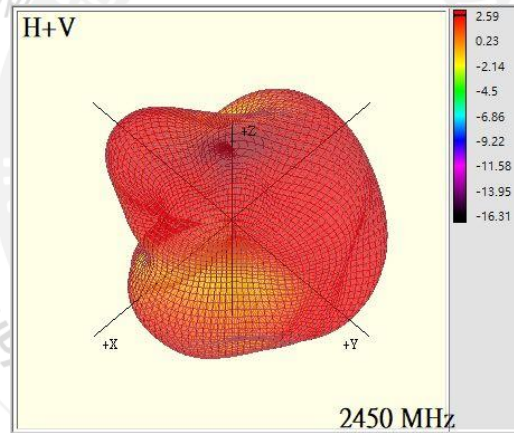
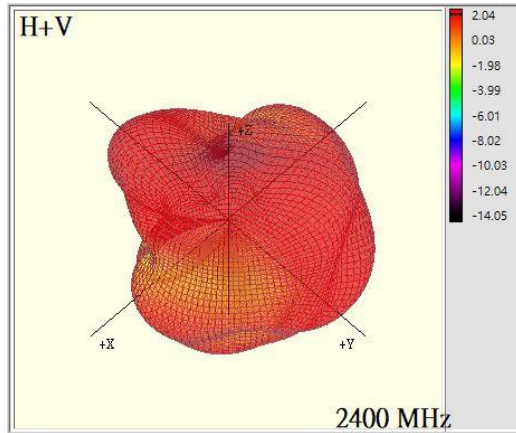


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	0.82	-1.87	1.71	-0.52	2.04	-0.90
2450	1.20	-1.44	1.99	-0.28	2.17	-0.60
2500	1.25	-1.70	2.19	-0.52	1.77	-0.88

2. Antenna Characteristics

WIFI@2G

2.3 3D Radiation Patterns



3. Summary

- The performance of antennas is shown in table

Right Land	Origin	Optimization
Maximum Efficiency (%)	72.27	78.5
Maximum Gain (dBi)	1.68	2.78

Thank you

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