

Page 1 of 17

Antenna Gain Test Report

致伸科技股份有限公司
廣東省東莞市石碣鎮劉屋管理區科技東 135 號
mouse
HP simmons Dual mode
致伸科技
Chip
/
James Qin
ANSI/IEEE std 149-2021
2023.12.6
2023.12.8



Page 2 of 17

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	2023.12.8	Initial Issue	\



Contents

1	Test Equipment Information	4
2	Setup block diagram	5
3	Test Temperature and Humidity	6
4	Test Step Flow	7
5	Test Result	8
		16



Page 4 of 17

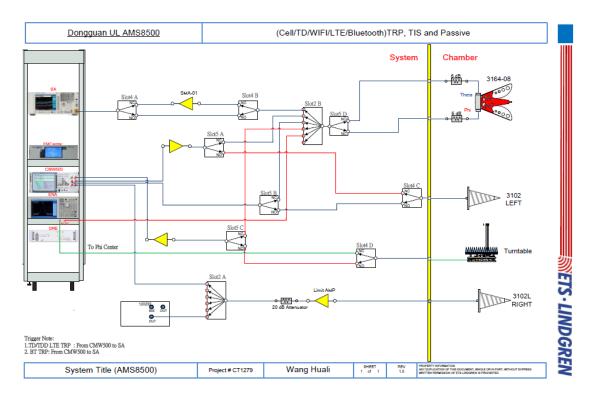
1 Test Equipment Information

Equipment	Manufacturer	Mode No.	Serial No.	Cal date	Cal Due
Test	ETS-Lindgren	8500	/	/	/
Chamber					
Test	ETS-Lindgren	EMQuest	1496	,	,
Software	L 13-Linagren	V1.12	1430	,	,
Network	IZ av ra i srlad	EE0740	MVACEDAEDA	2022 40 42	2024 40 44
Analyzer	Keysight	E5071C	MY46524531	2023.10.12	2024.10.11
EXA Singal	May raight	NOOAOA	NAVEE 4 FOE 4 4	2022 40 42	2024 40 44
Analyzer	Keysight	N9010A	MY55150514	2023.10.12	2024.10.11



Page 5 of 17

2 Setup block diagram





Page 6 of 17

3 Test Temperature and Humidity

Temperature: 22.2°C

Humidity: 61.3%



Page 7 of 17

4 Test Step Flow

- 1) Maintain the test ambient temperature of 23±2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

Page 8 of 17

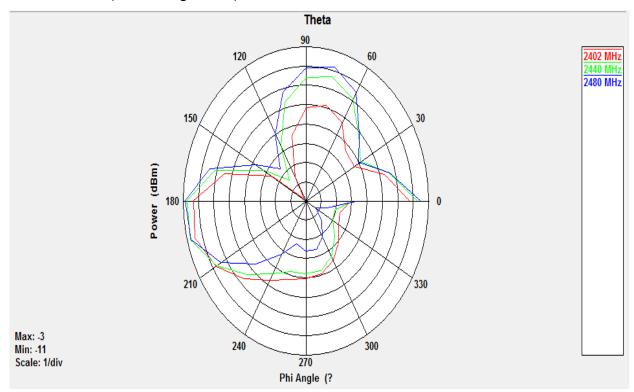
5 Test Result

1#

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2402	44.20	1.37
2440	50.81	1.85
2480	53.36	1.90

Polarization Pattern Photos

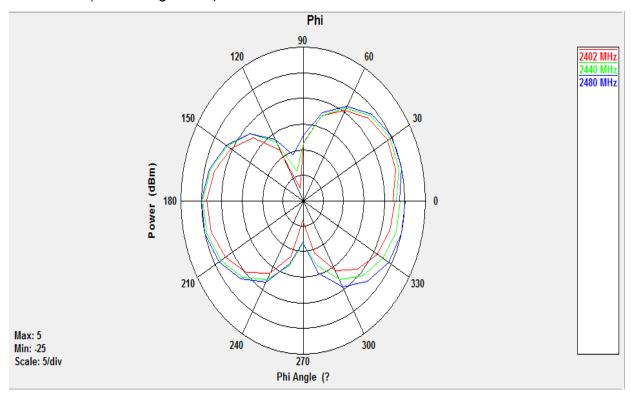
Theta Polarization(Theta Angle=90°)





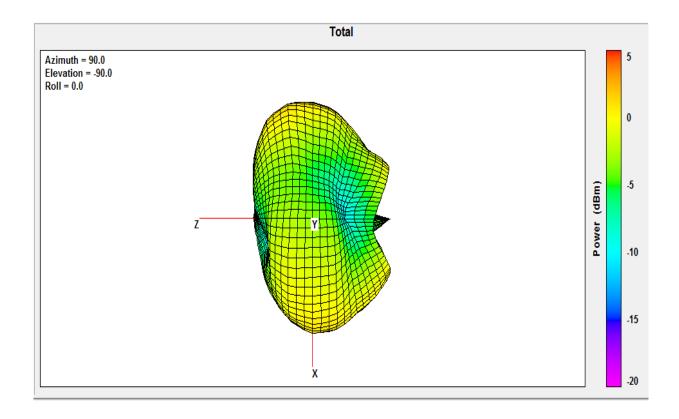
Page 9 of 17

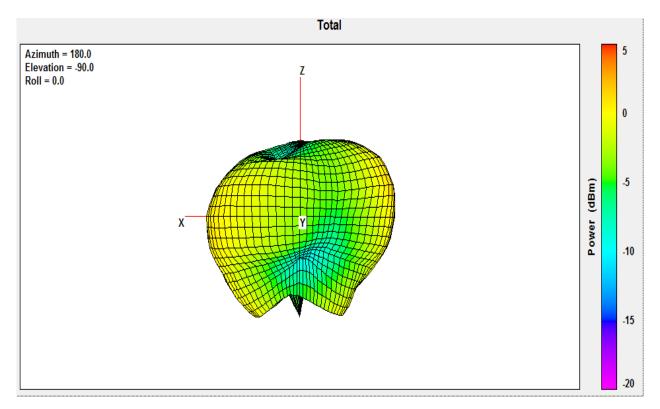
Phi Polarization(Theta Angle=90°)



Total 3D Plot(Fre.2480MHz)



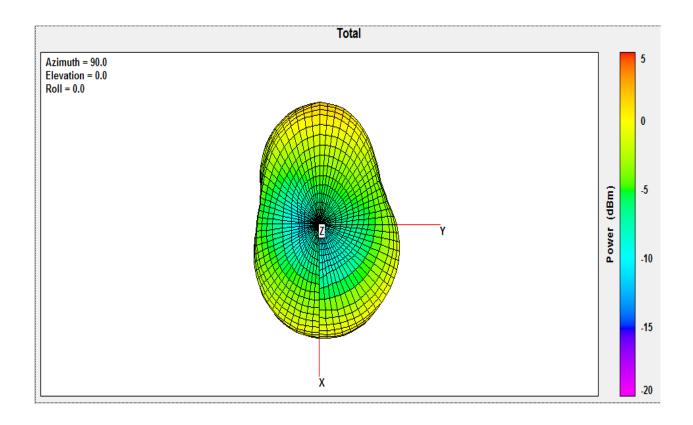




UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.







Page 12 of

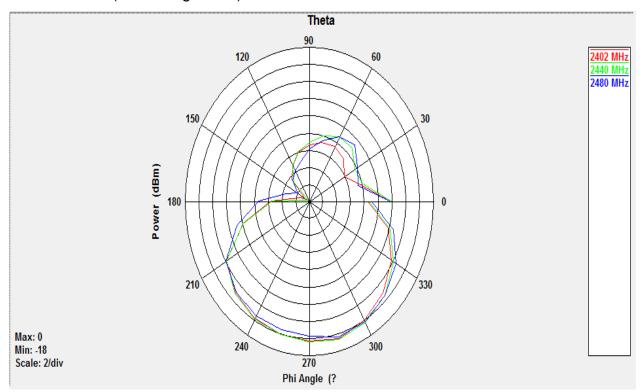
2#

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2402	52.95	1.73
2440	56.47	1.97
2480	55.74	2.14

17

Polarization Pattern Photos

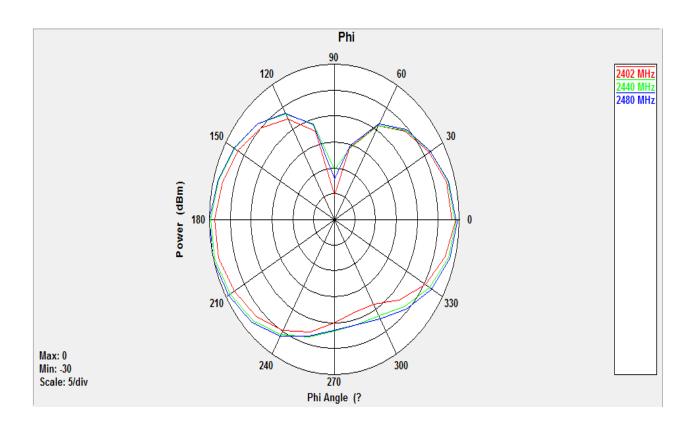
Theta Polarization(Theta Angle=90°)



Phi Polarization(Theta Angle=90°)

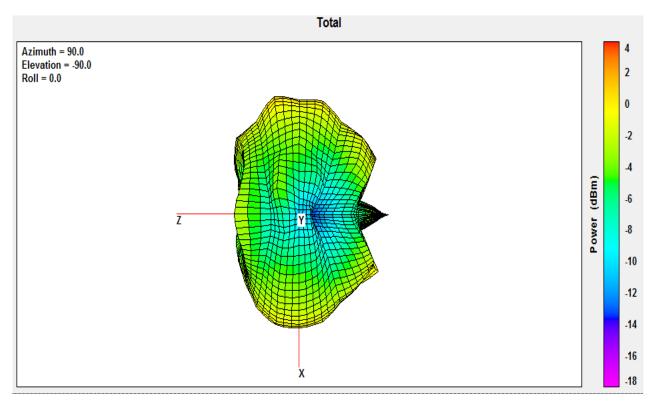
Page 13 of

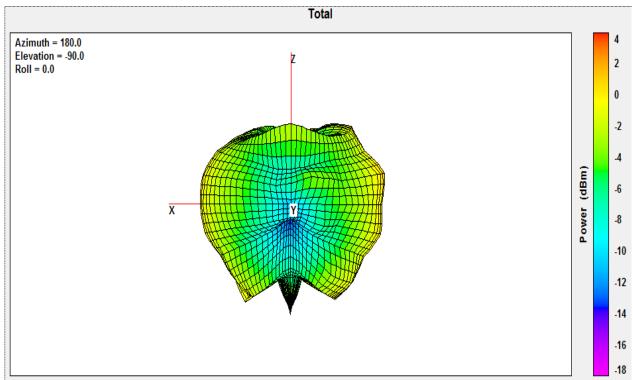
17



Total 3D Plot(Fre.2480MHz)



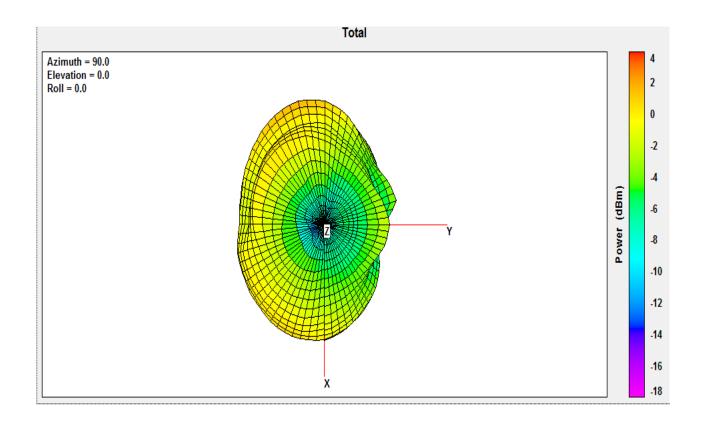




UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

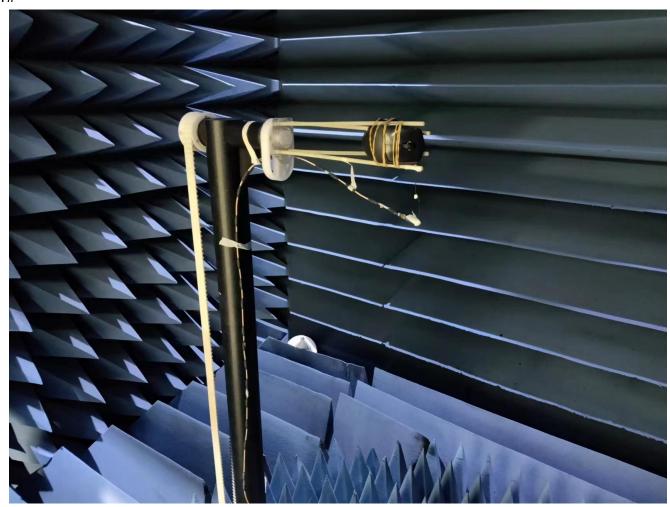






6 Photo

1#





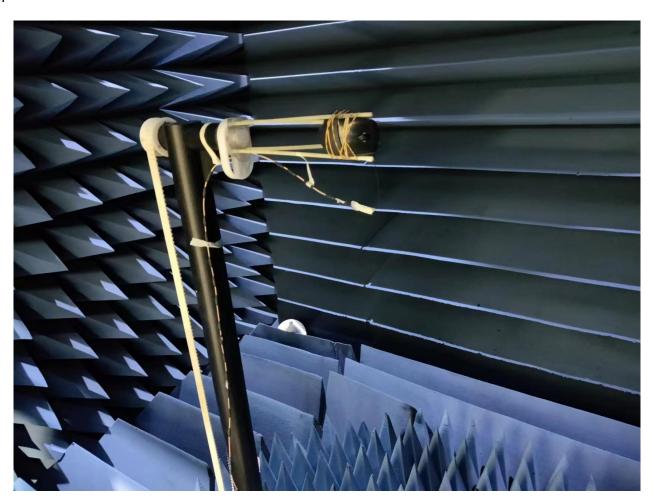
17



Page 17 of

Report No.: 20231208-OTA-1

2#



END OF REPORT