

TEW-921DAP

Antenna Test Report

1 Antenna Introduction



2 S-parameter test results

3. Gain & Patterns test results

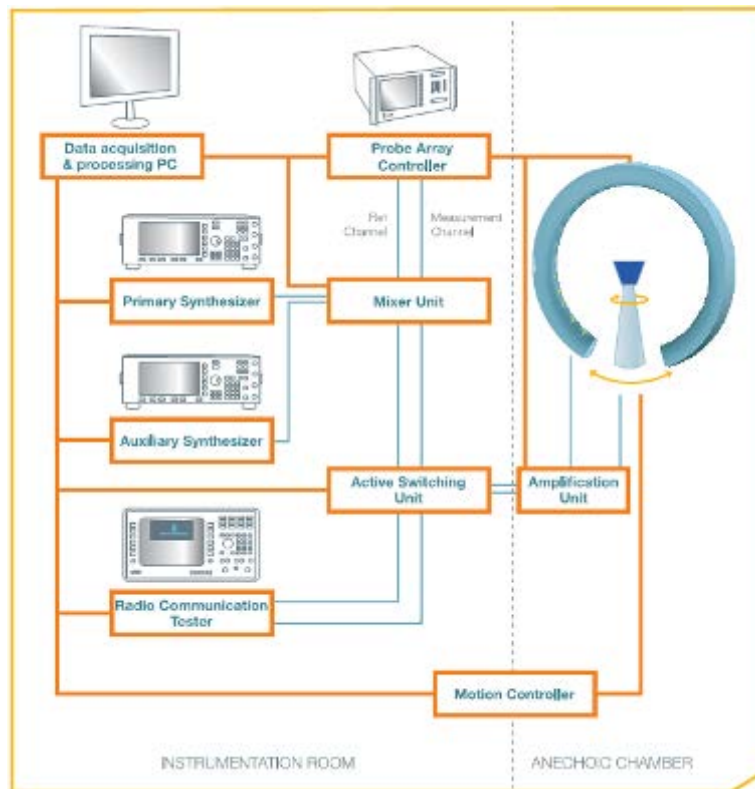
3.1 Lab information

- Lab name : Satimo
- Address : No.326 Sec.2, Kung Tao 5 Road, HsinChu City, Taiwan
- Certification : none (Satimo system certification: CTIA, 3GPP, Wi-Fi alliance and WiMAX Forum)
- Size (LxWxH) : 5m x 5m x 5m
- Isolation level : >100dB
- Normal applications : Antenna radiation pattern measurement, OTA performance testing.
- Frequency measurement range : 0.4 to 6 GHz
- EUT scanning method : conical cut method
- Measurement distance : 1.6m
- Measurement Antenna specification (for θ and Φ polarization each) : dual polarization Antenna for 0.4 to 6.0 GHz frequency range



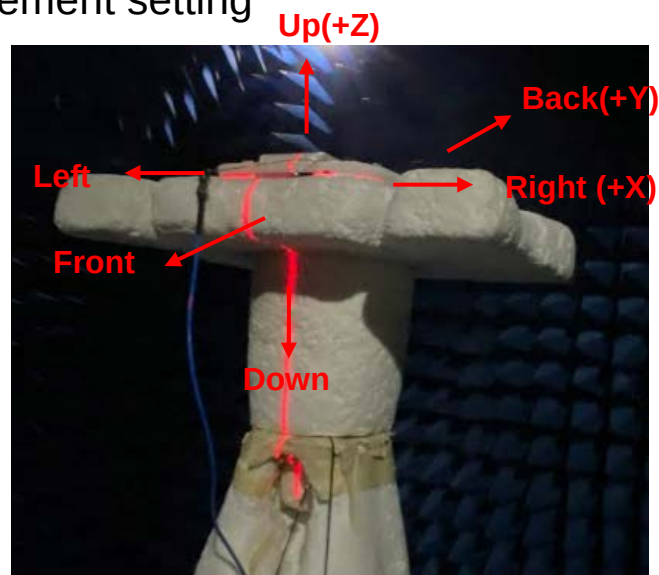
> 0.4 to 6.0 GHz probe

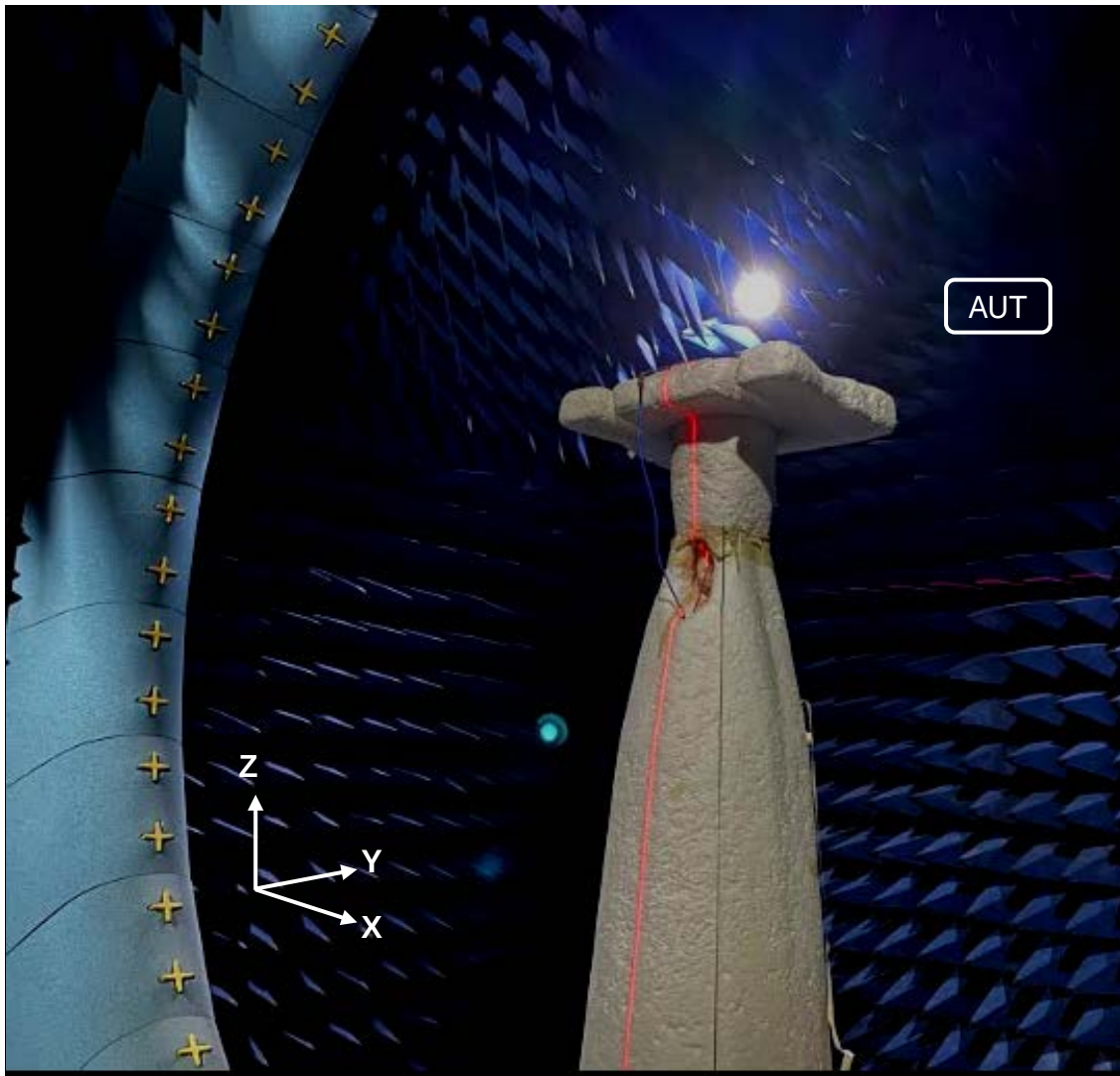
- Equipment list :



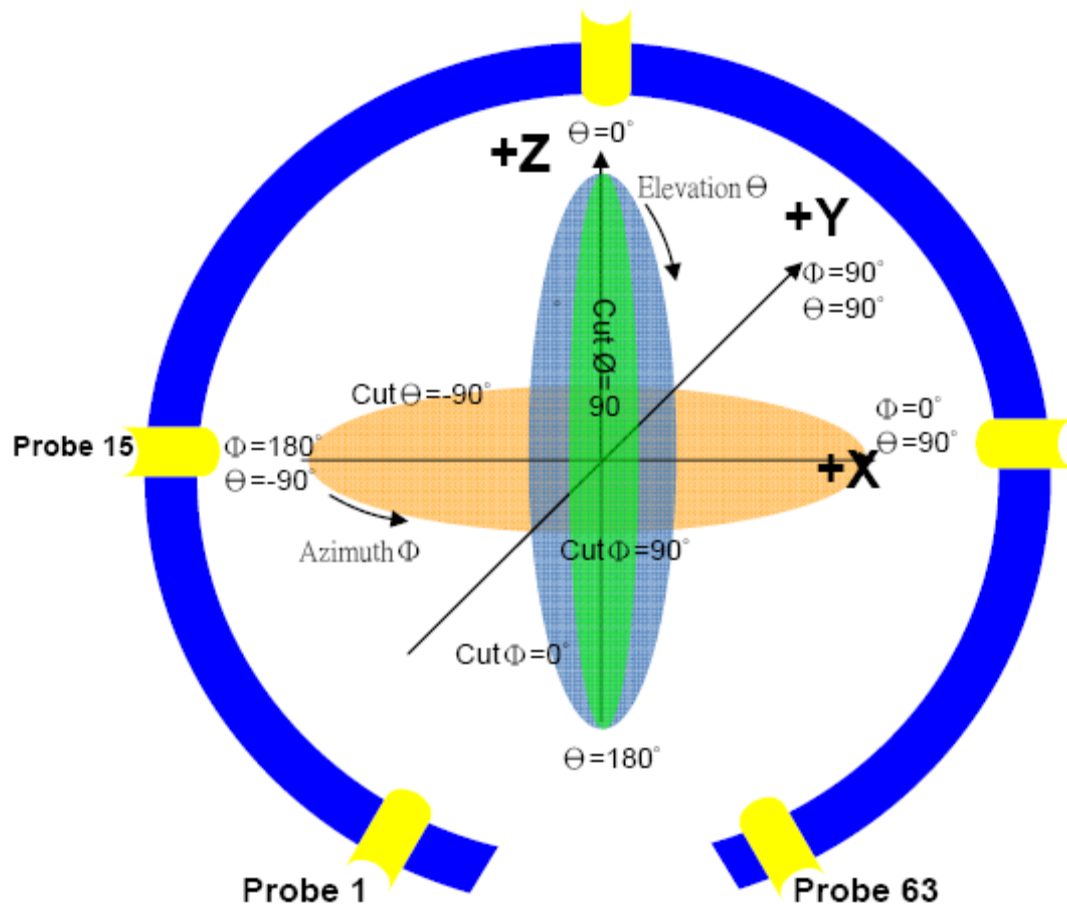
4. Gain & Patterns test results

4.1 Measurement setting





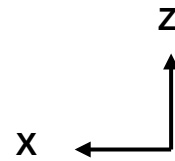
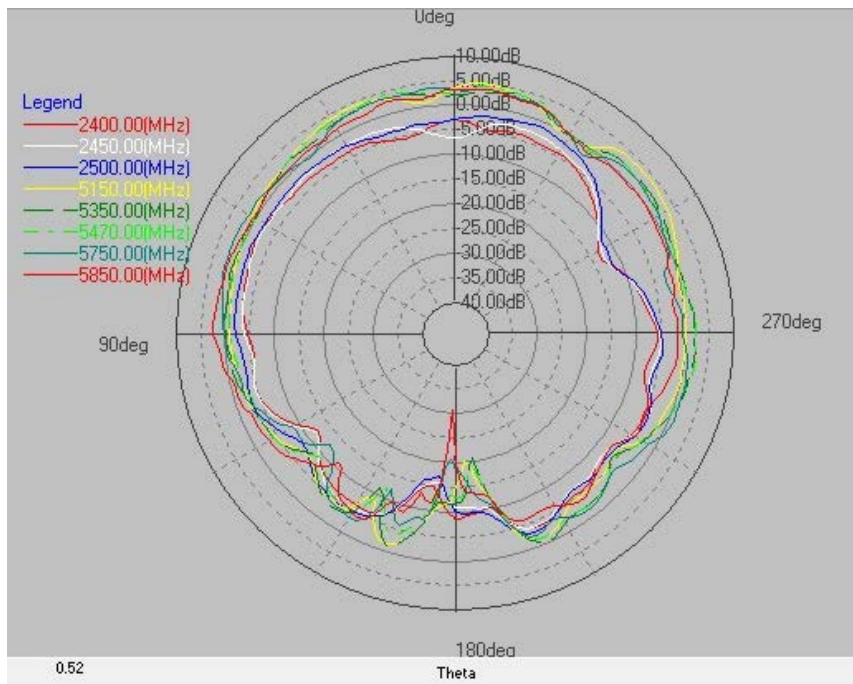
	XY	YZ	XZ
0°	Right	Up	Up
90°	Back	Back	Right
180°	Left	Down	Down
270°	Front	Front	Left



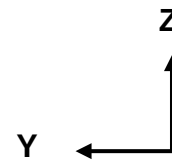
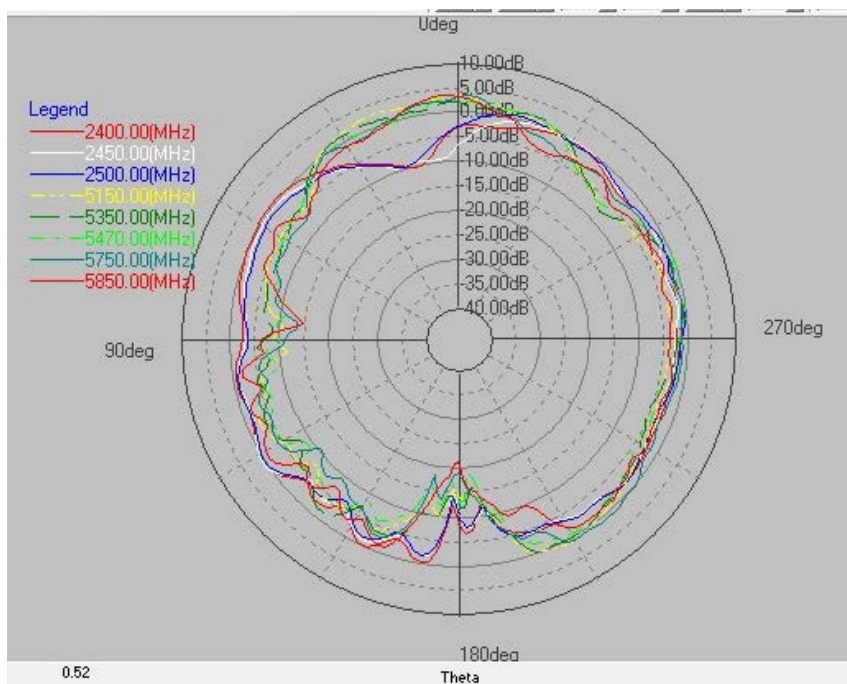
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

4.2 2D patterns

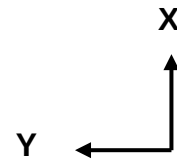
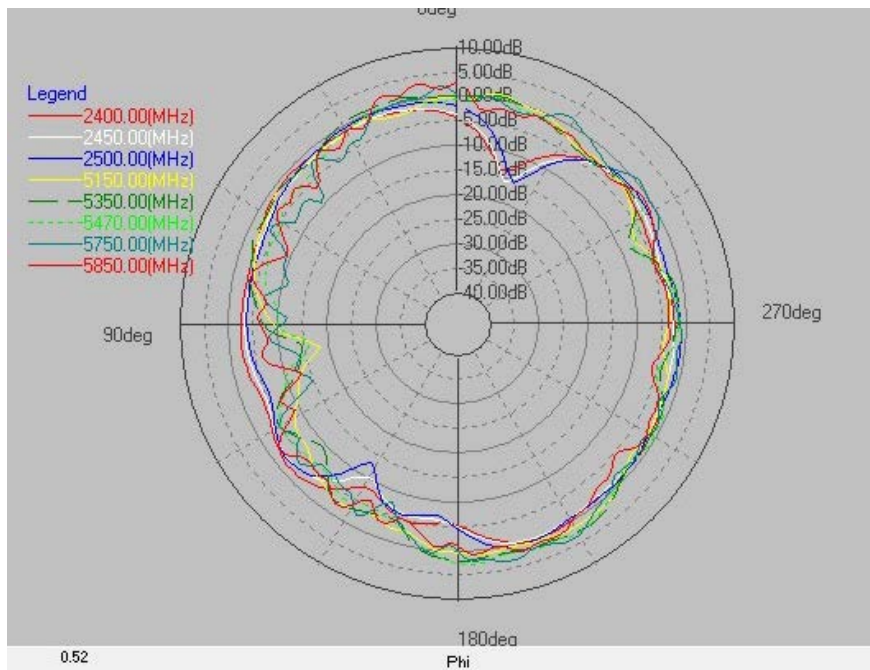
4.2.1 Ant.1



X-Z Plane (E-total)

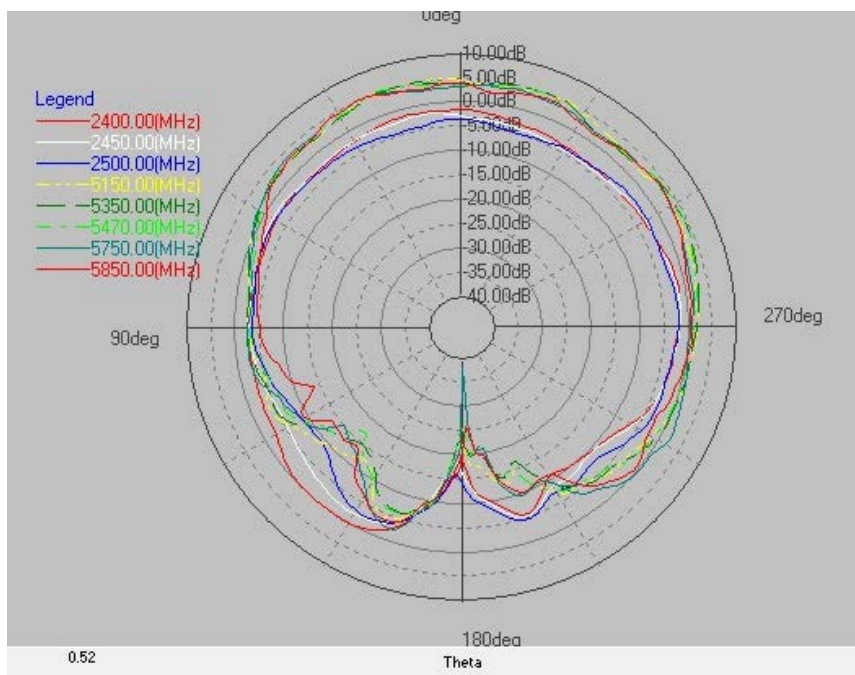


Y-Z Plane (E-total)

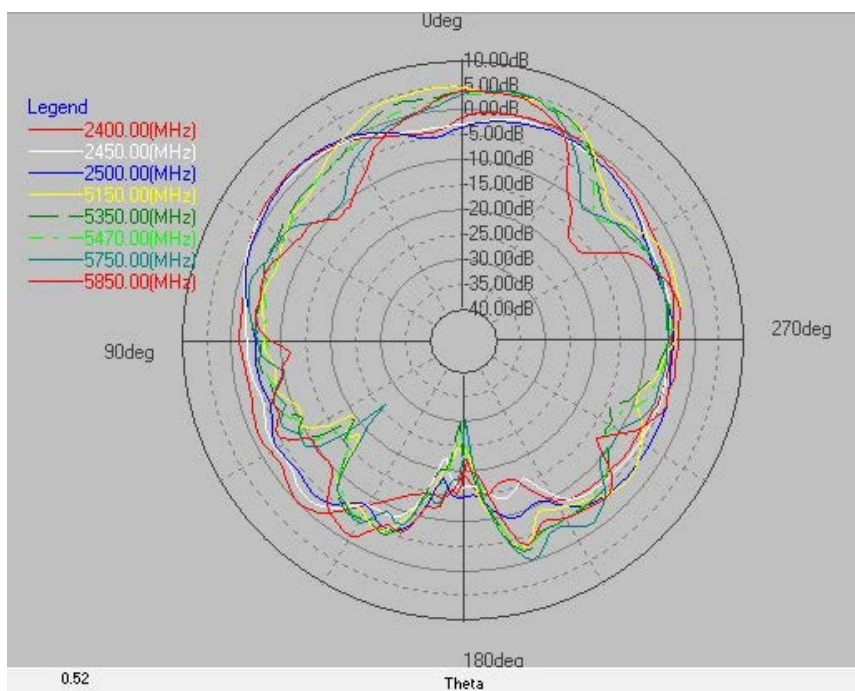
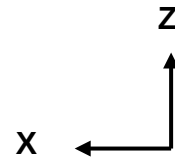


X-Y Plane (E-total)

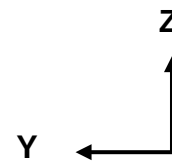
4.2.2 Ant.2

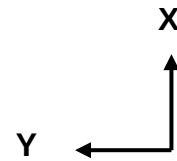
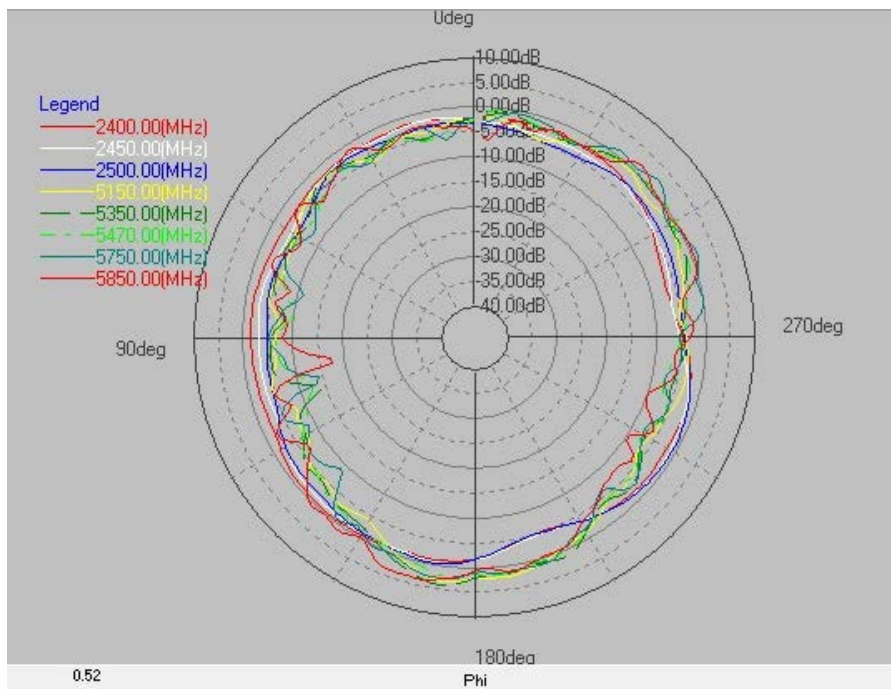


X-Z Plane (E-total)



Y-Z Plane (E-total)





X-Y Plane (E-total)

5. Summary

5.1 D total Peak Gain & Efficiency

Frequency	Ant.1 (C056-511249-A)		Ant.2(C056-511248-A)	
	Peak Gain (dBi)	Efficiency (%)	Peak Gain (dBi)	Efficiency (%)
2400 MHz	3.2	61	2.9	62
2450 MHz	3.0	64	3.1	61
2500 MHz	2.9	62	2.8	61
5150 MHz	3.8	63	4.0	62
5350 MHz	4.0	63	4.0	63
5470 MHz	3.9	61	4.1	61
5750 MHz	4.2	60	4.0	63
5850 MHz	4.0	62	3.9	64