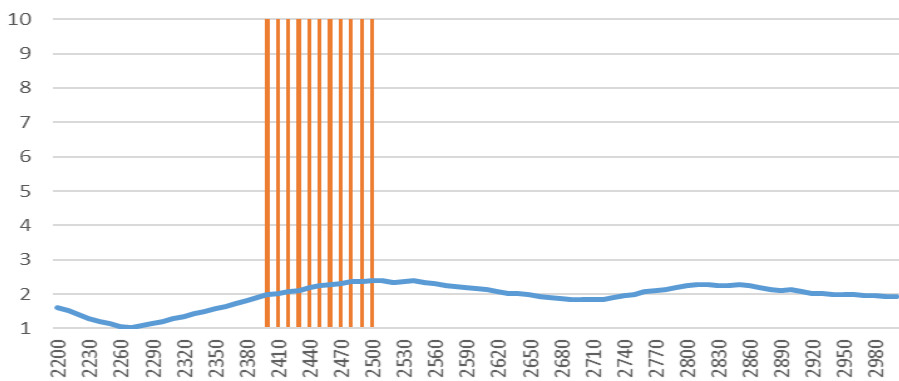
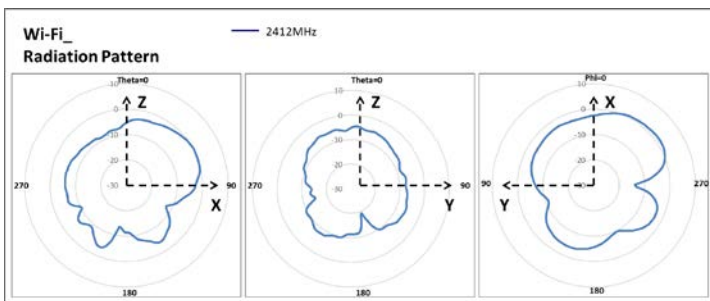


VSWR & Efficiency & pattern (WIFI & BT)

VSWR



Frequency (MHz)	Peak Gain (dBi)	(θ , ϕ)
2400	2.55	270,123
2412	2.43	270,123
2442	2.45	270,126
2450	2.53	270,126
2484	2.13	270,129

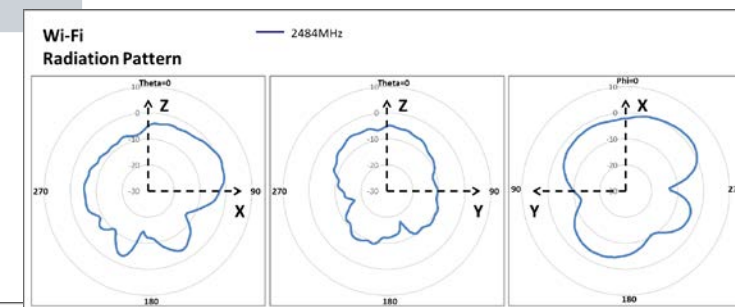
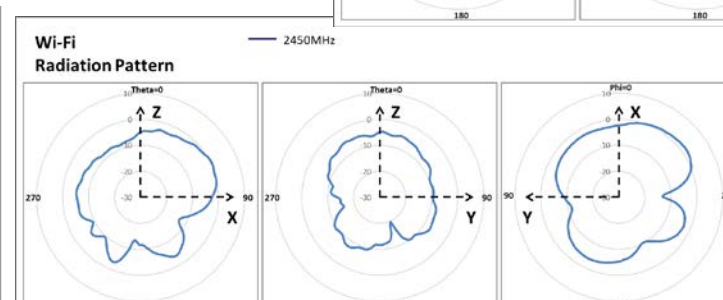
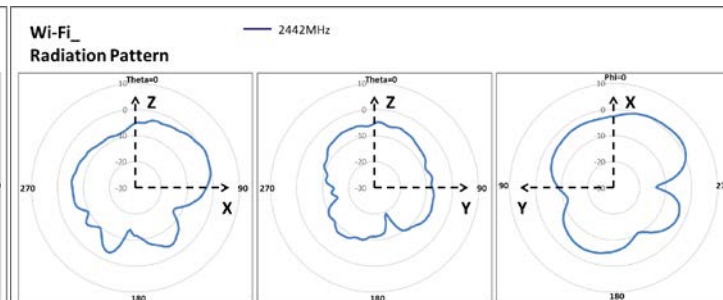
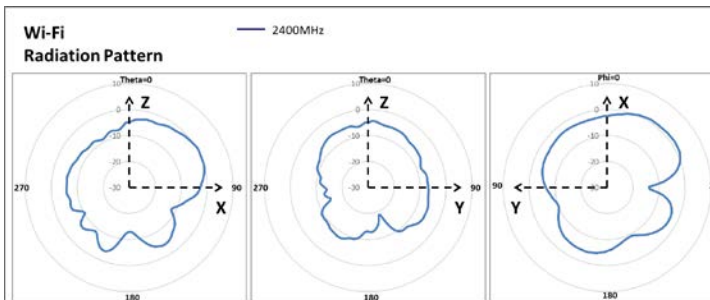


Above Peak Gain= on board antenna peak gain path loss+ Chamber's receiving RX peak gain.

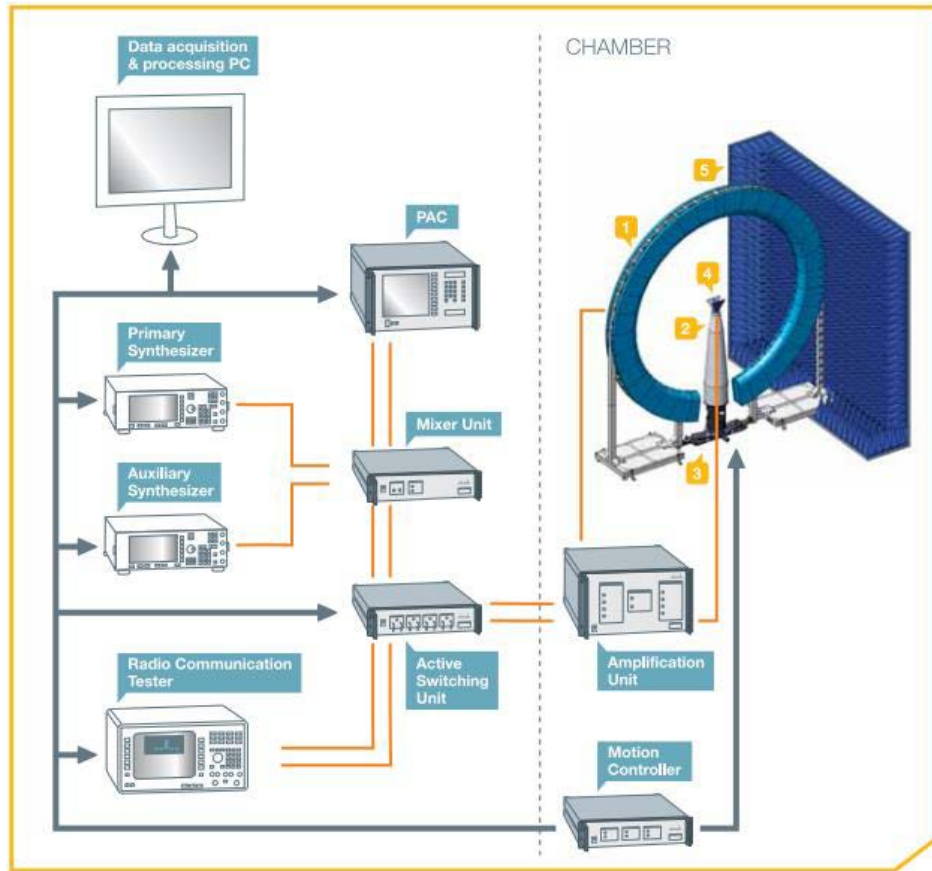
Antenna model: **UCD-LI80**

Manufacturer: **Wistron Neweb Corporation**

20 Park Avenue II Hsinchu Science Park, Hsinchu 308, Taiwan



SG64 Chamber info & Test setup



SG 64 uses analog RF signal generators to emit EM waves from the probe array to the antenna under test (AUT) or vice versa. It uses the NPAC as an RF receiver for antenna measurements. The NPAC also drives the electronic scanning of the probe array. The NPAC includes the fastest and most accurate sources and receivers on the market.

Device	Type/Model	Serial#	Manufacturer	Calibrated Date	Calibrated Until
SG64 Chamber	Standard	SG64	MVG	2022/03/30	2023/03/30
Turn Table	Customization	-	Machinery Dept.	2022/03/30	2023/03/30
New Probe Array Controller	N/A	1102341-4535	MVG	2022/03/30	2023/03/30
Power Supply Unit	N/A	1103211-13204	MVG	2022/03/30	2023/03/30
Active Switching Unit	N/A	1102347-7214	MVG	2022/03/30	2023/03/30
TX Amplification Unit	N/A	1102527-5909	MVG	2022/03/30	2023/03/30
RX Amplification Unit	N/A	1102536-3823	MVG	2022/03/30	2023/03/30
Transfer Swtitching Unit	N/A	1102183-3351	MVG	2022/03/30	2023/03/30
Mixer Unit	N/A	1102545-7208	MVG	2022/03/30	2023/03/30
Power And Control Unit	N/A	1102706-7209	MVG	2022/03/30	2023/03/30
Antenna Probe	DP 400-6000	-	MVG	2022/03/30	2023/03/30
Cable 13.7m - 400MHz to 18GHz	SS402	00100A1F5A1XXS	Woken	2022/03/30	2023/03/30
Temperature & Humidity Meter	HTC-01	-	Metravi	2022/03/30	2023/03/30

Note: There are 63 set ANT probes in WNC's SG64 Chamber.

Test method & Procedure

- Place the device at the center of the chamber.
- Connect the antenna cable to RF cable of the chamber
- Run Satimotest SW (**NPAC Spherical Measurement, v1.5.4 (GIT-E6965664)**)
- Get 3D data in 2.8125 degree step from phi 0° ~ 360° and theta -90° ~ $+90^{\circ}$, including efficiency, peak gain, 2D & 3D radiation pattern.
- This is far field test for XLE Wi-Fi antenna verification.
- This is passive measurement, which means the device is off and not in any operating mode.