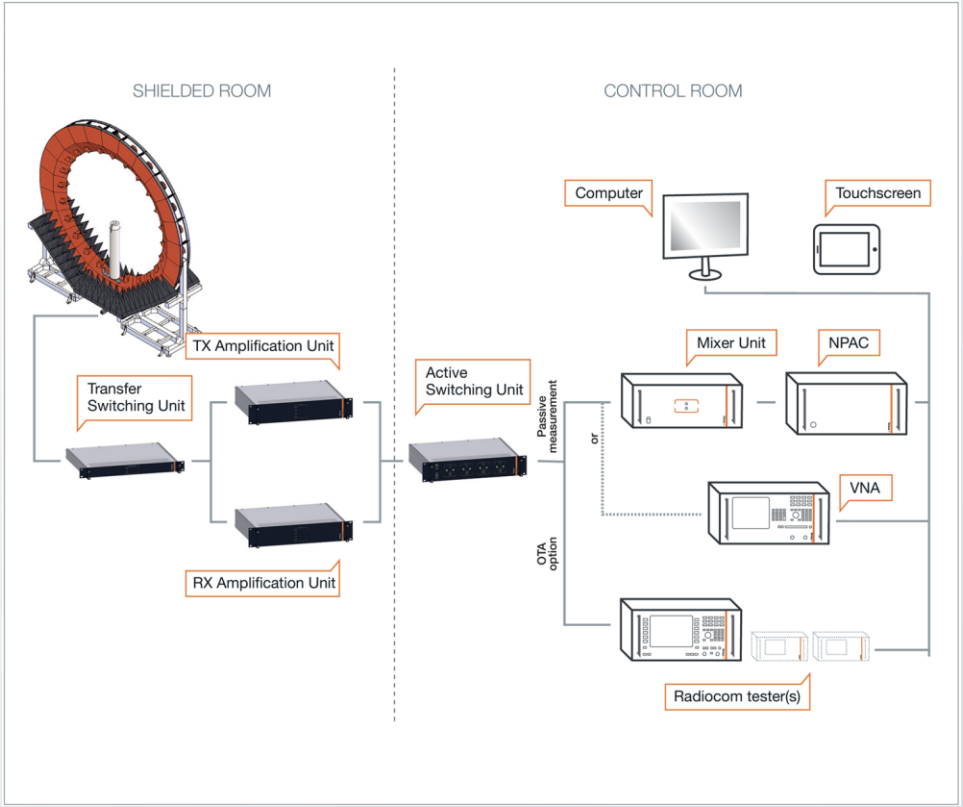
U7-Mesh-Wall Antenna Datasheet

Outline

- AUT Environment
  - Instrument Information
  - Test Method
- Antenna Performance
  - 2G Antenna
  - 5G Antenna
  - Thread/BLE Antenna

AUT Environment

Instrument Information

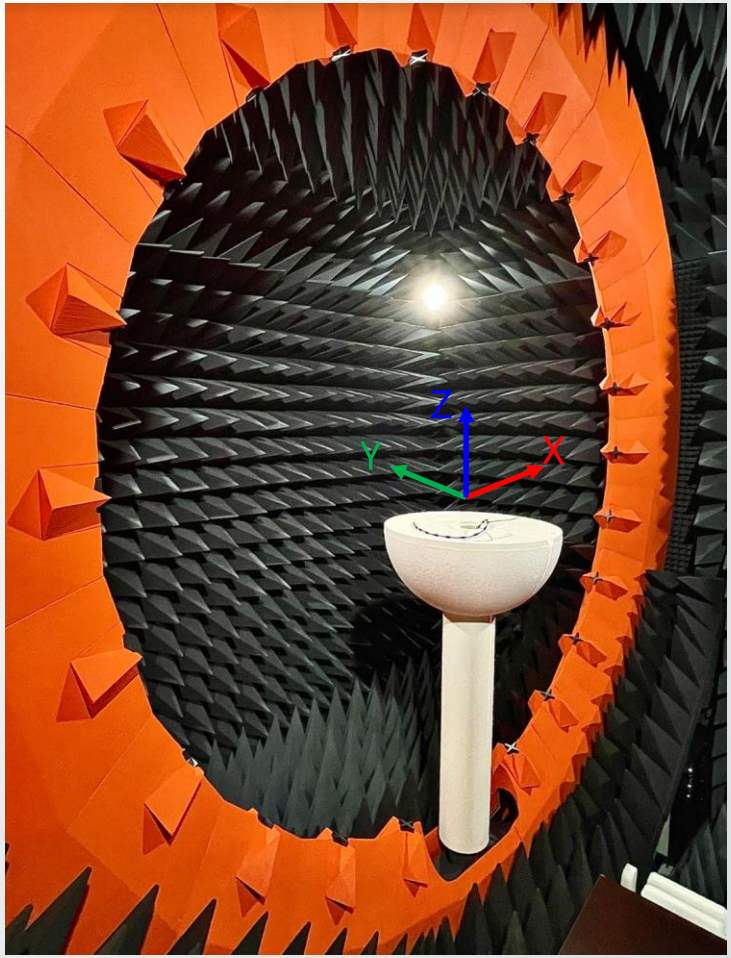


Calibration Record

- Full system calibration, including each instrument, will proceed once per year.
- Regular calibration, including efficiency/peak gain consistency check, will proceed with bi-monthly.

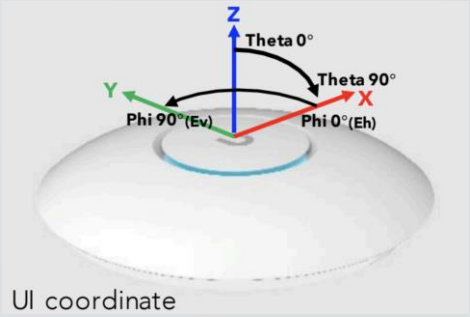
Instrument List	Model	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2026/01/13	2027/01/12
TX Amplification	MVG	2026/01/13	2027/01/12
RX Amplification	MVG	2026/01/13	2027/01/12
Active Switching	MVG	2026/01/13	2027/01/12
Network Analyzer	R&S ZNB	2026/01/13	2027/01/12
Radiocom Tester	Anritsu MT8821	2026/01/13	2027/01/12
Full System	SG24-Standard	2026/01/13	2027/01/12

Test Method



Measurement Standard

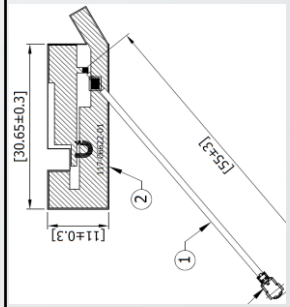
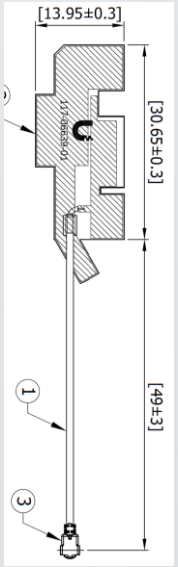
- To fix device on the turntable, and laser positioning the height level in the center of the probe.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5° / Theta increment 5°.
- Finished 3D data collection along with Theta-175°~Theta175° and Phi0°~Phi180°
- Frequency resolution setup depends on the different bands.

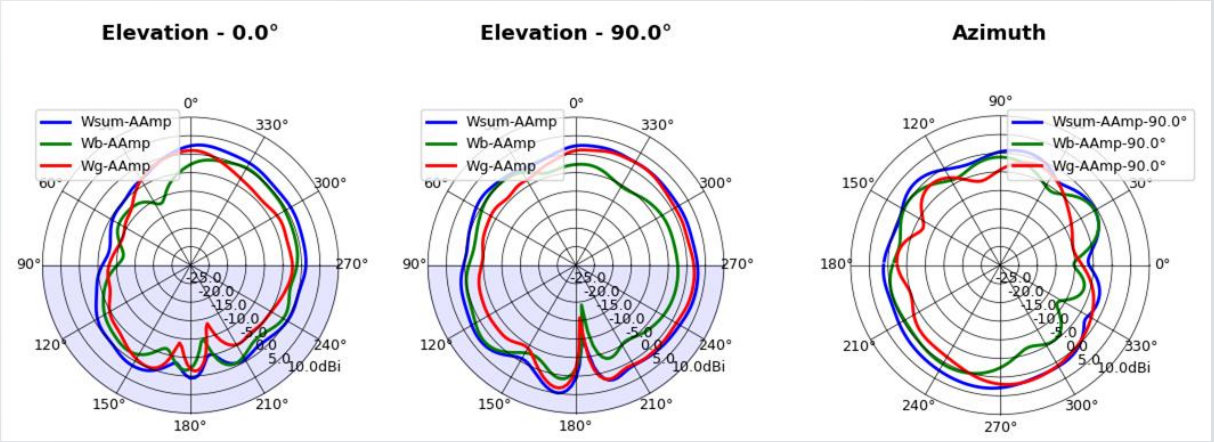


UI coordinate

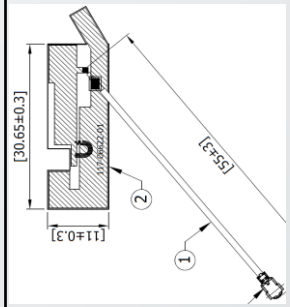
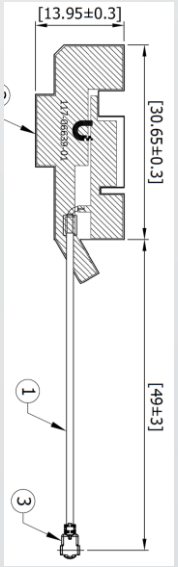
Antenna Performance

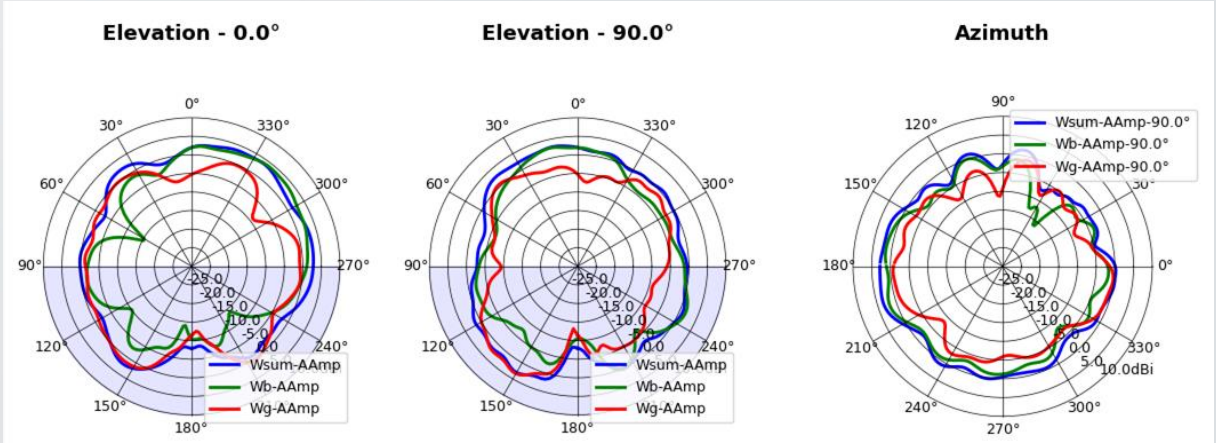
[U7-Mesh-Wall] 2G Antenna Performance

	WIFI 2G	
Working frequency	2400-2500 MHz	
Antenna type	Monopole	
Gain	6.0 dBi	
Model	117-06622	117-06639
Drawing		

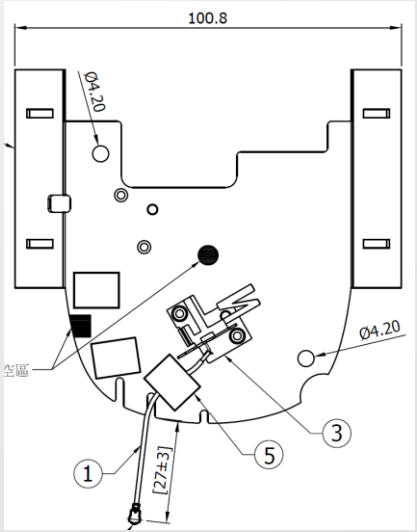


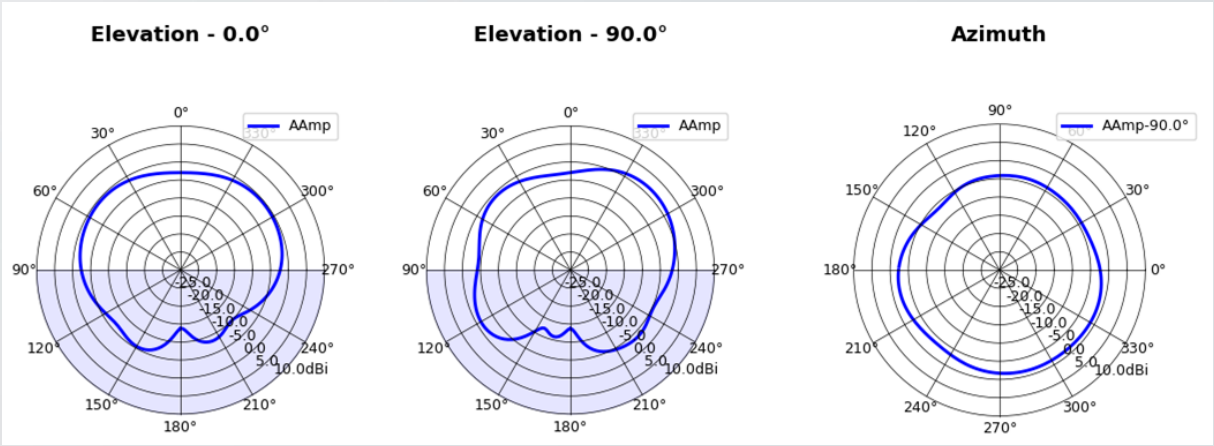
[U7-Mesh-Wall] 5G Antenna Performance

	WIFI 5G	
Working frequency	5150-5850 MHz	
Antenna type	Monopole	
Gain	6.0 dBi	
Model	117-06622	117-06639
Drawing		



[U7-Mesh-Wall] Thread/BLE Antenna Performance

	Thread/BLE
Working frequency	2400-2500 MHz
Antenna type	PIFA
Gain	3.0 dBi
Model	117-06576
Drawing	



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