U5G-Max-Outdoor
Antenna Datasheet

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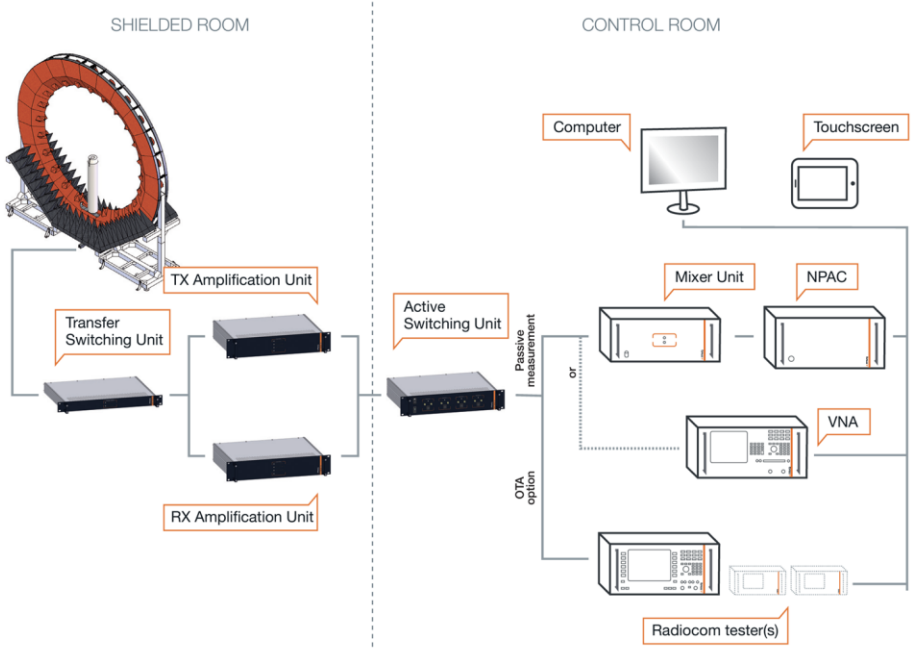
Outline

- AUT Environment
  - Instrument Information
  - Test Method
- Antenna Performance
  - 5G NR / LTE Antenna
  - BT Antenna

AUT Environment

Instrument Information



Calibration Record

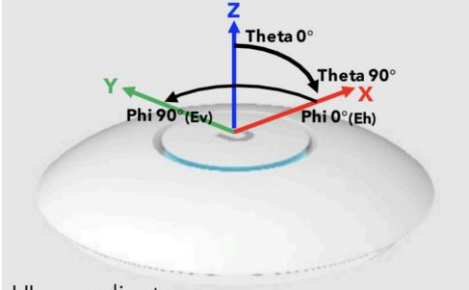
- Full system calibration, including each instrument, will proceed once per year.
- Regular calibration, including efficiency/peak gain consistency check, will proceed with bi-monthly.

Instrument List	Manufacturer	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	Anritsu MT8821	2024/11/13	2025/11/12
Full System	SG24-Standard	2024/11/13	2025/11/12

Test Method

Measurement Standard

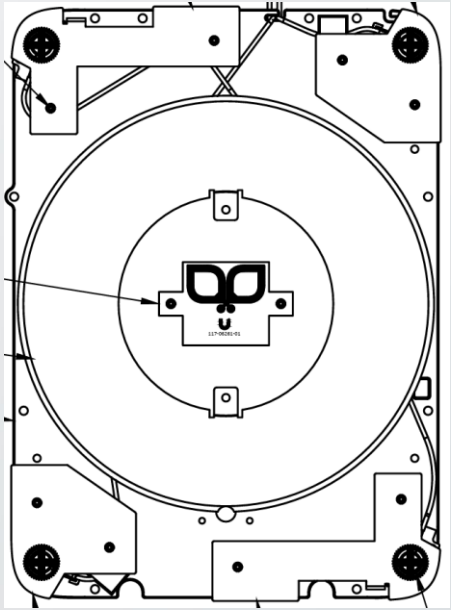
- To fix device on the turntable, and laser positioning the height level in the center of the probe.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5º / Theta increment 5º.
- Finished 3D data collection along with Theta-175º~Theta175º and Phi0º~Phi180º
- Frequency resolution setup depends on the different bands.



UI coordinate

Antenna Performance

[5G-Link-Outdoor] Antenna Performance

	5G NR/LTE
Working frequency	5G NR/LTE
Antenna type	PIFA
Gain	Shown on next page
Model	117-06261
Drawing	

[5G-Link-Outdoor] Antenna Performance

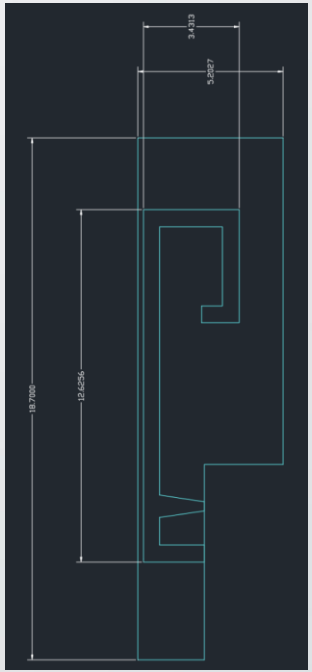
Band	1	2	3	4	5	7	8	12	13	14	17	18	19
5G NR Sub-6 GHz	4.2	3.5	3.9		2.3	4.7	2.0	3.2	2.4	2.4		2.5	
4G LTE	4.2	3.5	3.9	3.9	2.3	4.7	2.0	3.2	2.4	2.4	3.9	2.5	2.3

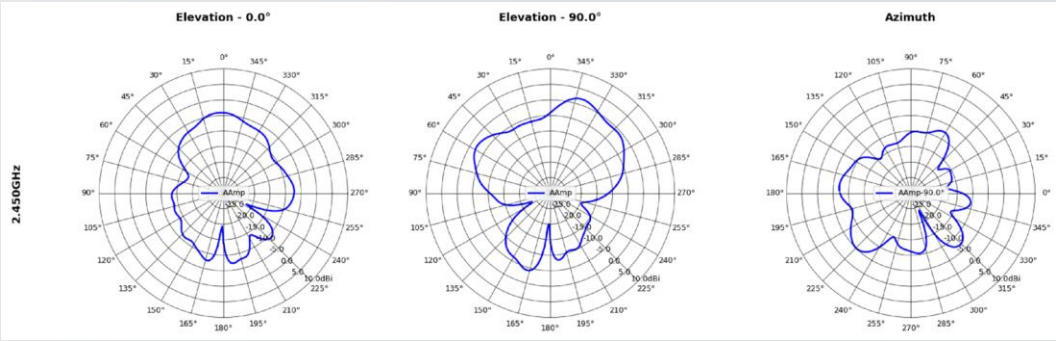
Band	20	25	26	28	29	30	32	34	38	39	40	41	42
5G NR Sub-6 GHz	2.2	3.5	2.5	3.4	3.4	-1.5			5.0		4.5	5.1	
4G LTE	2.2	3.5	2.5	3.4	3.4	-1.5	4.2	4.0	5.0	3.5	4.5	5.1	4.3

Band	43	46	48	66	70	71	75	76	77	78	79
5G NR Sub-6 GHz			-2.5	3.9	4.0	2.5	4.6	3.9	2.5	2.5	3.5
4G LTE	3.9	3.5	-1.0	3.9		2.5					

***Blue: RX only**

[5G-Link-Outdoor] BT Antenna Performance

	BT
Working frequency	2400-2500 MHz
Antenna type	PIFA
Gain	-11.0dBi
Model	117-02002
Drawing	



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