

Antenna Under Test System

☐ Measment Device

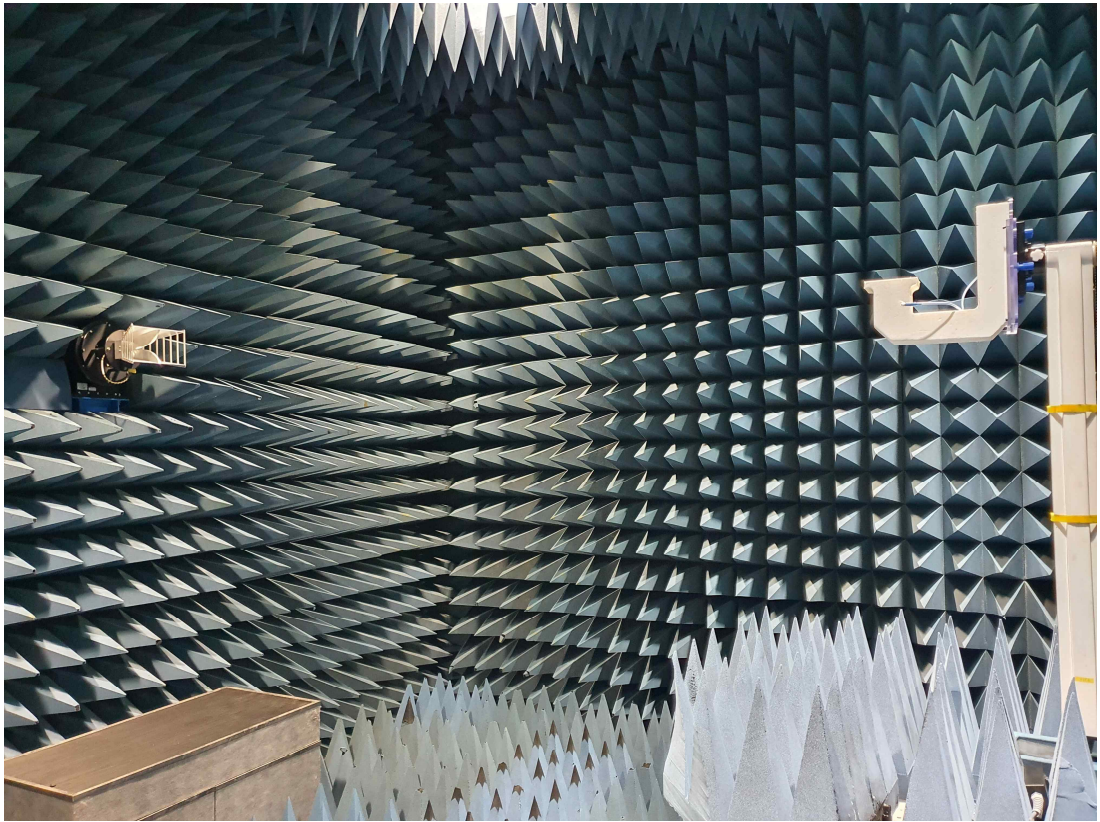
- o 700 MHz ~ 8.0GHz small Antenna
(RFID,GSM, CDMA, WCDMA, 4G/5G, LTE Cat.M,
NB-Iot, WLAN(802.11 a,b,g,n,ac)

☐ Chamber Specification

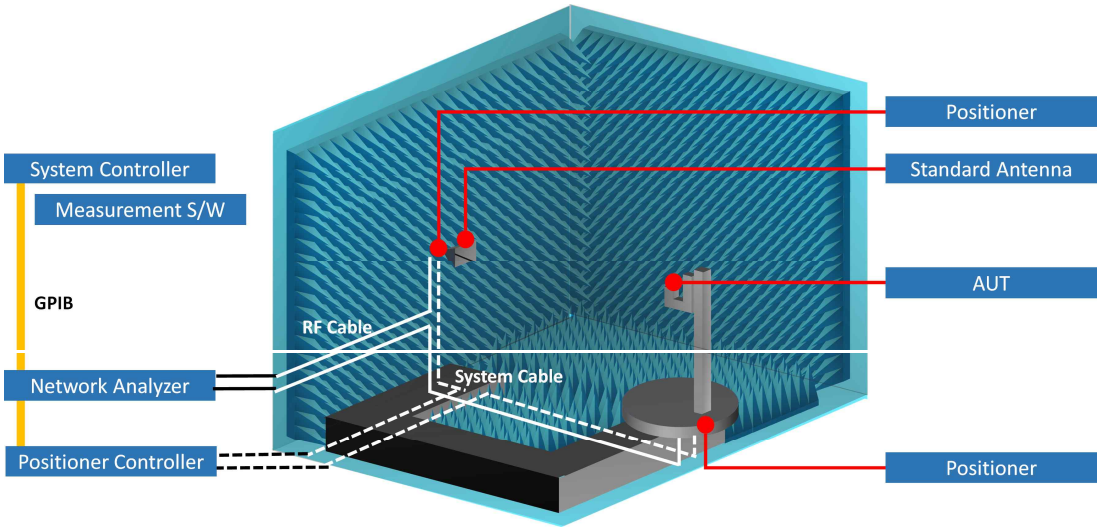
- o Size: 5.5(L) m × 5.5(W) m × 5.0(H) m
- o Frequency Range : 700 MHz ~ 8.0 GHz (Far Field)
- o Quiet Zone : 0.8 m × 0.8 m @ 800 MHz
- o Path Length : 2.94 m
- o Type: Rectangular
- o System :MTG co.,Ltd..(Republic of Korea)
- o Device Under Test Weight: < 2kg
- o Chamber Performance(Quiet Zone)

Frequency	Quite Zone (m)
700 MHz	0.79
800 MHz	0.74
900 MHz	0.70
1 GHz	0.66
2 GHz	0.46
3 GHz	0.38
4 GHz	0.33
5 GHz	0.29
6 GHz	0.27
7 GHz	0.25
8 GHz	0.23

□ Measment View

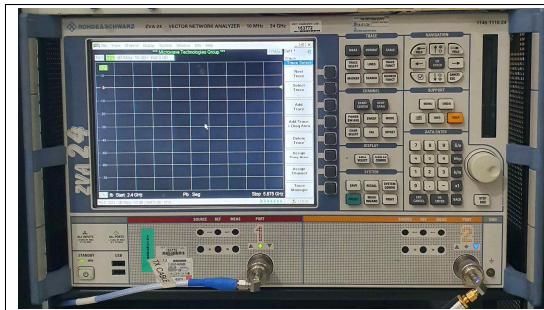


Measment Room

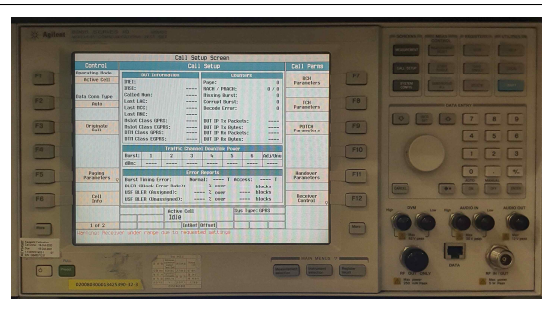


Measment Diagram

□ Measment System Diagram



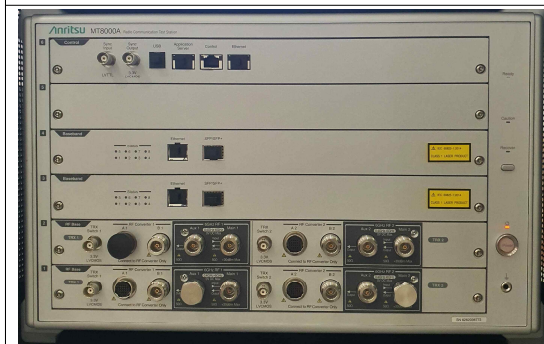
Network Analyzer :
R&C ZVA24 (10MHz ~ 24GHz)



GSM, CDMA, WCDMA :
Agilent 5515C



4G, LTE Cat.M, NB-IoT :
Anritsu MT8821C

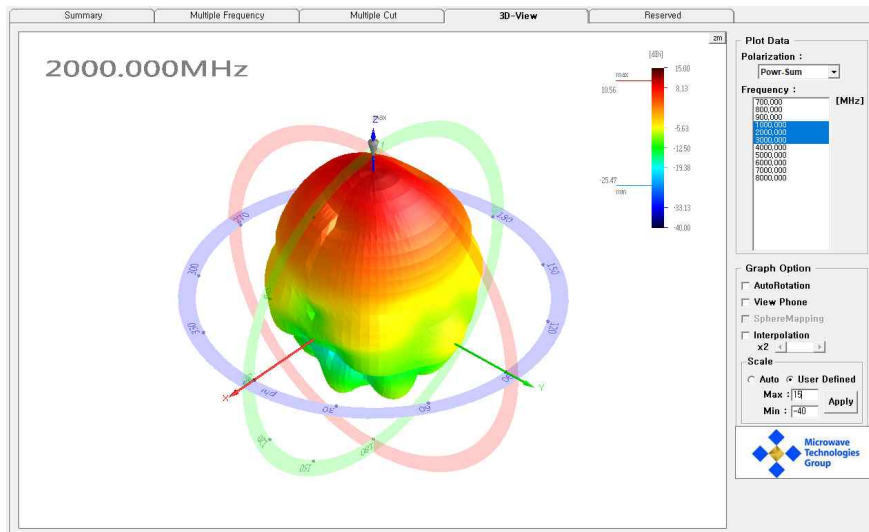


5G (Sub6G, mmWave) :
Anritsu MT8000A



WLAN (802.11 a,b,g,n,ac) :
Anritsu MT8862A

Measment Software :MTG Co.,Ltd. (www.mtginc.co.kr)



Passive Measment Data

☐ **Key Measment List**

o Antenna Passive Measment

- Average Gain
- Beam peak gain and location - Null depth and location - Efficiency
- Circular Polarization analysis - Radiation pattern(2D / 3D)

Test LAB.:Korea Radio Promotion Association
(Electromagnetic wave Technology Institute)
www.rapa.or.kr/www.emti.or.kr