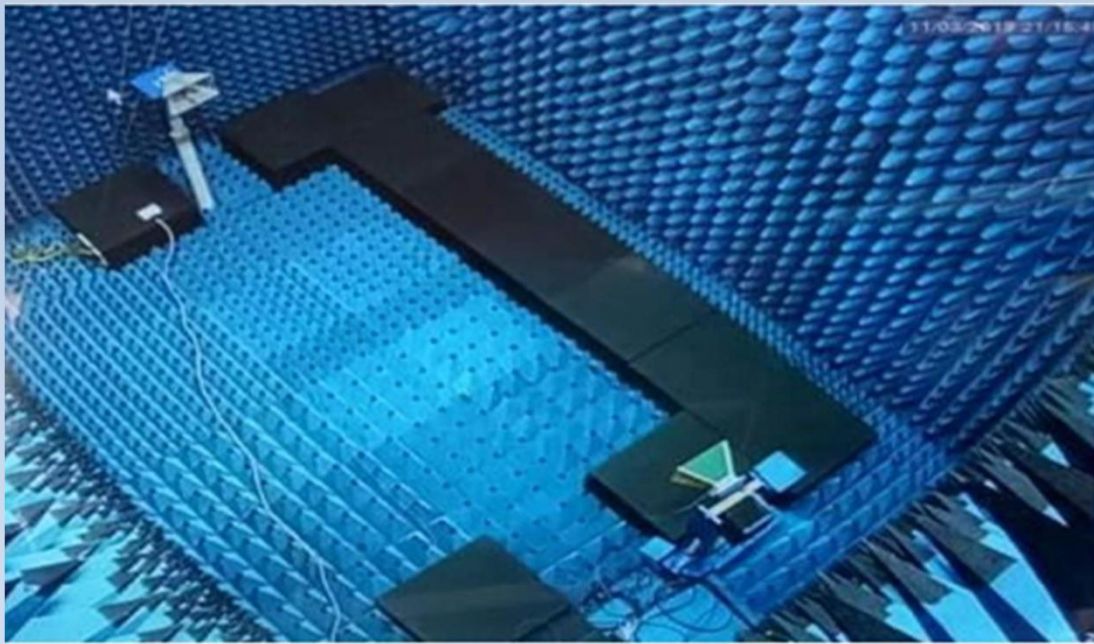


MICROLINE AUTOMATIC 3D ANTENNA MEASUREMENT SYSTEM

- SUPPLY AND INSTALLATION OF POSITIONER SYSTEM
- POSITIONER SYSTEM OF BOTH TRANSMITTER AND RECEIVER
- SOFTWARE FOR MEASUREMENT
- ALL RELATED HARDWARE



1. CUSTOMIZED DESIGN FOR 3D -2D PATTERN WITH PARAMETERS MEASUREMENT

CONSIST FOLLOWING HARDWARE & SOFTWARE

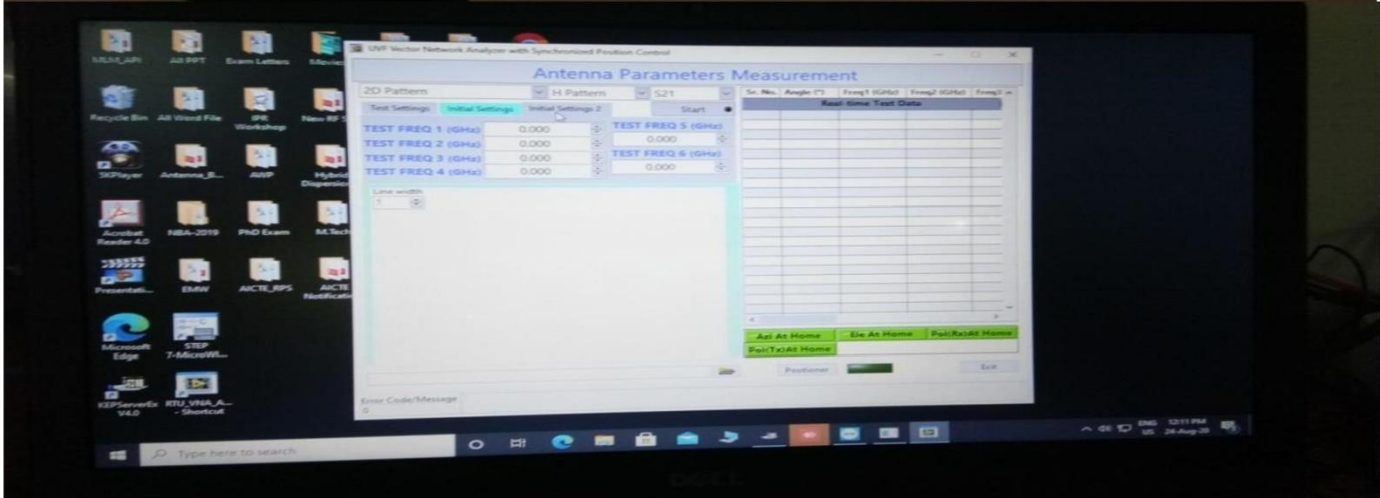
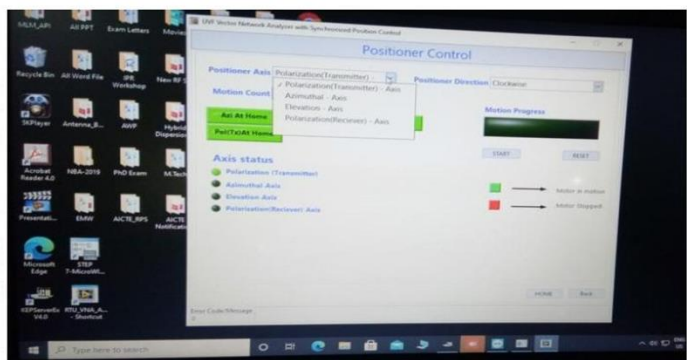
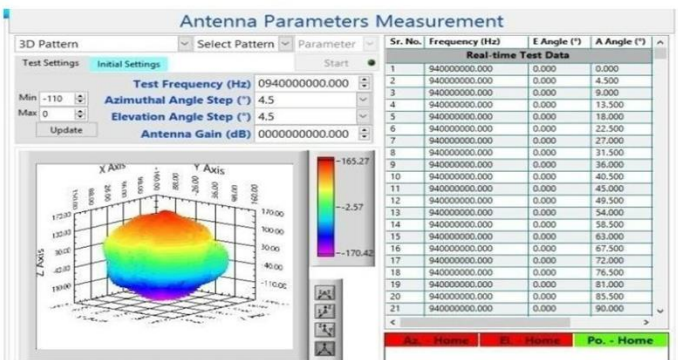
- 3 AXIS ROTARY TRANSMITTER POSITIONER SYSTEM
- 3 AXIS ROTARY RECEIVER POSITIONER SYSTEM
- AUTOMATIC RADIATION PATTERN MEASUREMENT SOFTWARE
- CONTROL SYSTEM HARDWARE
- MANUAL TO CONTROL AND DO MEASUREMENT

Automated Receiver and Transmitter System

Automatic 3 Axis receiver and Transmitter positioner system with similar movement of Elevation, Azimuthal rotations and Polarization

- iii. j. Interfacing with VNA and PC for automatic measurements through Software. Positioners would be of non-reflective materials
- ii. Motors and other parts would be covered with absorbers.
- iv. Minimum step angle would be 0.18 degree.
- v. Polarization and elevation movement form -90 degree to 90 degree and Azimuth movement from 0 to 360 degree.
- vi. After each measurement, positioner will return back to home position.
- vii. Multiple selected frequency option would be provided to get graph at
- viii. the selected frequency points in single run of measurement. Six frequency data would be provided in Graph and as well as CSV data excel format.

- ix. Auto data saving and retrieving option will be provided.
- x. Real time monitoring of graph and readings will be provided.
- xi. Labview interfacing software will be provided along with PLC hardware controller. GUI will be Labview based.
- xii. Software will provide provision to have following measurements.
 - 2D Radiation pattern (E/ H)
 - 3D Radiation pattern (E/H)
 - Gain Measurement
 - Axial Ratio Measurement S
 - Parameter Measurement
- xiii. After each measurement positioner system will return back to its home position.
- xiv. Both measurement control and graph plotting will be provided in the single screen.
- xv. Positioner will be provided with mounting brackets to mount antennas.
- xvi. Height of the Receiver and Transmitter positioner system can be varied manually with minimum scope of 150mm.



Above Picture showing – Pattern, Manual access to positioner, Interfacing pic from outside & Six frequency points data exe file pic.

Hardware Access Panel: Both positioners will rotate through controller and drive system which will be enclosed in one panel box. The panel will be placed Inside the chamber and covered with absorbers.

- Power to the panel will be provided from inside the chamber.
- LAN cable will be taken through connector panel to the PC to have control and access from outside.

ABSORBERS

- Pyramidal Absorbers are flexible, light weight used in interference suppression applications
- Tested as per IEEE Standards
- Fire Retardant as per NRL 8093
- High performance from frequency band up to 40 GHz with attenuation of more than -20dB to -50 dB.
- Available in standard base size of 2' x 2' (610 mm x 610 mm).
- Temperature resistant
- Long performance warranty

Model MU 4

Model MU 4

Size : 610 x 610 x 100 mm (LWH)

Matrix : 12 x 12 = 144 pyramids Base Height : 25 mm

Pyramid Height : 75 mm

Reflectivity (Absorption level): -20 dB to -25 dB at 2 GHz

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