

Title	Terahertz Measurement Facility
Purpose of equipment	This terahertz measurement facility is capable of precise near and farfield terahertz measurements in two bands (0.5 - 0.75 and 0.75 - 1.1 THz) based on using frequency multiplier heads with a Rohde & Schwarz ZVA 24 base unit. We have interfaced the receiver and detector with a xyz scanning system to allow for precise planar or spherical measurements.
Technical Information/equipment Spec.	Frequency of operation (0.5 - 0.75 and 0.75 - 1.1 THz) with full four port measurement capability. We have precise alignment and calibration software with the capability to remove standing waves developed. Dynamic range is less than -70dB and higher. W band measurements (75 -110 GHz also available). Fully calibrated and deconvolved measurements of terahertz antennas or optical components.
Key responsible investigator	Dr Neil Trappe
Location	Experimental Physics Department, Maynooth University

