



RESEARCH ENVIRONMENT

FACILITY

LABORATORY

- (1) Antenna Laboratory (Advisor: Kin-Lu Wong)
- (2) RF and Microwave Laboratory (Advisor: Tzyy-Sheng Horng)
- (3) Computational Electromagnetics Laboratory (Advisor: Chih-Wen Kuo)
- (4) Propagation and Communication Laboratory (Advisor: Ken-Huang Lin)
- (5) Microwave Circuits and Devices Laboratory (Advisor: Chie-In Lee)
- (6) Wireless System Technologies Laboratory (Advisor: Lih-Tyng Hwang)

Name	Company	Model	Main Spec.	Location
Vector Network Analyzer	Agilent	HP 8510C	45M ~ 40GHz	F7012b
Electrical Network Analyzer	Agilent	HP E5071A	300k ~ 8.5GHz	F7012b
Spectrum Analyzer	Agilent	HP 8563E	9k~26.5GHz	F7012b
Spectrum Analyzer	Agilent	HP 8594E	9k~2.9GHz	F7012b
Spectrum Analyzer	R&S	FSP	9k~30GHz	F7012b
Vector Signal Analyzer	Agilent	HP 89441A	DC-2650MHz	F7012b
Function / Arbitrary waveform Generator	Agilent	HP 33250A	80MHz	F7012b
Function / Arbitrary waveform Generator	Agilent	HP 33120A	15MHz	F7012b
Signal Generator	Agilent	HP4438C	250k ~ 6GHz	F7012b
Signal Generator	Agilent	HP4433B	250k ~ 4GHz	F7012b
PNA Series Network Analyzer	Agilent	E8364B	10M ~ 50GHz	F7012b
PNA-X Network Analyzer	Agilent	N5247A	10M ~ 67GHz	F7012b
Analytical Probe Station	Cascade Microtech	9000		F7012b
Gold Wire Bonder	Kulicke&Soffa	4522		F7012b
High resolution EMC scanner	Detectus AB	HR-1		F7012b
ENA Series Network Analyzer	Agilent	E5062A	300k~3GHz	F7012b
VXI Mainframe	Agilent	E8408A		F7012b
Mixed Signal Oscilloscope	Agilent	MSO9064A	600MHz 10GSa/s	F7012b
Digital Signal Analyzer	Agilent	DSA91304A	13GHz 40GSa/s	F7012b
Pulse Function Arbitrary Generator	Agilent	81150A	120MHz	F7012b

EMI Chamber			30MHz-18GHz	
Network Analyzer	Agilent	8753ET	300 kHz ~ 6 GHz	F7034
Network Analyzer	Agilent	8719ET	50 MHz ~ 13.5 GHz	F7034
Aluminum Wire Bonder	Shin-Mei-Hua	SPB-U668		F7012b
Noise Figure Meter	Agilent	8570B/ 8971C	20 GHz	F7012b
Power Amplifier	Agilent	83000A	26.5 GHz	F7012b
Power Meter	Agilent	437B	4.2 GHz	F7012b
Power Supply	Agilent	6626A	50 W	F7012b
Power Supply	Agilent	E3646A	60 W	F7012b

SOFTWARE

- (1) Advanced Design System (ADS)
- (2) High Frequency Structure Simulator (HFSS)
- (3) Q3D
- (4) Momentum
- (5) EM-Pro
- (6) Ansoft link
- (7) SIWave
- (8) MATLAB
- (9) Designer
- (10) Nexxium