



## ■ EMC Center Facility List

### Specification of Radio Wave Darkroom

Item	Specification
Measuring frequency	10kHz ~ 18GHz
Usable dimension LxWxH(m)	6.6x3.9x3.05
Door dimension WxH(m)	1.0x2.0
Measuring distance (m)	3
EUT Trestle Material Withstand load (kg)	Wooden 100
Antenna up/down range (m)	1.0 ~ 2.2
Power supply	Single phase 60Hz AC100V MAX20A Single phase 60Hz AC0 ~ 260V MAX20A

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Classification	Detail	Maker P/N	Specification	Reference
Antenna	Bi-Log Antenna	SCHAFFNER CBL6112B	30MHz-2GHz	
	Active Loop Antenna	EMCO 6502	10KHz-30MHz	
	Horn Antenna	SCHWARZBECK BBHA 9120B,9120C	1GHz-10GHz, 2GHz-18GHz	TSJ PreAmp 1G-20G TSJ LowNoisePreAmp
Probe	Electromagnetic Field Probe	Agilent CLOSED-FIELD PROBE11941A,11940A	9kHz-30MHz, 30MHz-1GHz	ADVANTEST R14601A PreAmp
Measuring equipment	Spectrum Analyzer	Agilent E4407B Agilent E4403B	9kHz-26.5GHz 9kHz-3.0GHz	For measurement of radiation noise For measurement of neighborhood filed noise
Measuring system	Magnetic field measurement	TSJ Magnetic Field Strength Measurement (TEPTO-DV/ME)	9kHz-30MHz	
	Radiation noise measurement	TSJ Radiation Mission Measurement (TEPTO-DV/RE)	30MHz-1GHz	

### Other Measuring Equipment

Measuring Item	Detail	Maker P/N	Specification	Reference
Impedance Inductance Permeability, Permittivity	Impedance Analyzer	Agilent 4294A HP 4291B	40Hz-110MHz 1MHz-1.8GHz	16047E TestFixture 16454A MAGNETIC MATERIAL Test Fixture 16453A DIELECTRIC MATERIAL Test Fixture
Permeability, Permittivity Return Loss, Transmission Loss	Network Analyzer	Anritsu 37225B	40MHz-13.5GHz	KEYCOM $\epsilon$ , $\mu$ , $r$ Measuring equipment by S Parameter Method KEYCOM Noise Suppression Evaluation System of Neighborhood Field Shape of sample: $\phi$ 7-3(S Parameter Method), 80x80mm (Noise Suppression Sheet)
Permeability, Core Loss B-H Curve	BH Analyzer	IWATSU SY-8232	10Hz-10MHz	SY-301 Measurement Unit SY-928 Measurement POD
Inductance, Capacitance Q Factor	LCR Meter	Agilent 4285A	75kHz-30MHz	42841A 0-20A BIAS CURRENT SOURCE 42842C BIAS CURRENT Test Fixture
Surface Resistivity	Resistivity Meter	TREK Model152	$10^3 - 10^{13}\Omega$	
Surface Resistivity	Resistivity Meter	Mitsubishi Chemical Corp. Loresta-GP MCP-T610	$10^{-3} - 10^7\Omega$	
Surface Resistivity, Volume Resistivity	High Resistance Meter	Agilent 4339B	$10^3 - 10^{16}\Omega$	16008B RESISTIVITY CELL Sample shape : 82 ~ 125mm
Dielectric/ Insulation Resistance	Dielectric/Insulation Resistance Tester	KIKUSUI TOS8870A	Dielectric : AC 0 ~ 5kV Insulation : 1M ~ 1000M $\Omega$ (DC500V) 2M ~ 2000M $\Omega$ (DC1kV)	