FIELD TESTING

Site Surveys & Mapping	Magnetic Field Surveys, 60 Hz, ELF, RF to 40 GHz
Radiation Hazards	ANSI C95.1
Nuclear Power Plant Surveys	EPRI TR-102323
Product Testing Services On-site	Safety, EMC

ANECHOIC/SHIELDING CHAMBER PERFORMANCE

Shielding Effectiveness	NSA 65-6, IEEE 299
Site Attenuation	ANSI C63.4
Field Uniformity	IEC 801-3, IEC 61000-4-3

OPEN AREA TEST SITE CHARACTERISTICS

Site Construction Consulting	ANSI C63.4, FCC, CISPR 16, FCC and Industry Canada Site Filing Listed
Site Attenuation Measurements	ANSI C63.4

PERFORMANCE TESTING

Transmission Parameters	EIA TSB 40-A
Cable/Connector Performance	Shielding Effectiveness
Surge & Transient Withstand	IEC 801/IEC 61000-4-xx, ANSI/IEEE

CYBER SECURITY ASSESSMENT

CyberLAB capability to support assessment of IoT devices.
Baseline Cyber Protections:

- Asset Identification
- Product Configuration
- Data Protection
- Interface Access Control
- Software Update
- Documentation
- Information and Query Reception
- Information Dissemination
- Product Education and Awareness

WIRELESS DEVICE CERTIFICATION

We work closely with our partner at American Certification Body (ACB).

ACB is accredited by the American National Standards Institute (ANSI), ANSI-ASQ National Accreditation Board (ACLASS), designated by National Institute of Standards and Technology (NIST), and recognized by the Federal Communications Commission (FCC) as a Telecommunications Certification Body (TCB) and the Innovation, Science and Economic Development Canada (ISED) as a Foreign Certification Body (FCB).

INTERNATIONAL APPROVALS

- MIIT Certification
- CCC Certification
- ANATEL Certification
- IFT Certification
- EAC Certification
- Hong Kong RF Approvals
- CE and UKCA Marking
- NCC Certification
- BSMI Certification
- WPC Certification
- BIS Certification
- SRRC Certification
- MIC Certification
- 5G Certification

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Compliance Testing & Engineering Solutions

Summary of Test Services:

- Environmental Testing
- EMI/EMC Testing
- Product Safety
- International Approvals
- Wireless Device Testing & Certification

WASHINGTON LABORATORIES, LTD.

COMPLIANCE SOLUTIONS FOR THE GLOBAL MARKETPLACE

Fully Accredited Testing Laboratory

EMI/EMC TESTING

UNITED STATES

STANDARD	EQUIPMENT TYPE
FCC Part 15	Computing Devices, Cordless Telephones, Satellite Receivers, TV Interface Devices, Receivers, Low Power Transmitters, and Spread Spectrum Transmitters, UNII & others.
FCC Part 18	Industrial, Scientific, and Medical Equipment i.e. Microwave, and RF Lighting Ballast (ISM)
FCC Part 22	Cellular Telephones
FCC Part 24	Personal Communications Systems
FCC Part 25	Satellite Communications
FCC Part 80	Marine Radio Transmitters
FCC Part 90	Private Land Mobile Radio Services Includes Paging Devices and Mobile Radio Transmitters
ANSI/IEEE C95.1	RF Exposure
FCC Part 95	Personal Radio Services
OET Bulletin 65	RF Exposure
EPRI 102323	EMC for Nuclear Power Plants

CANADA

ICES-001	ISM Equipment
ICES-003	Digital Apparatus
RSS Series	Transmitters, Receivers

MILITARY

MIL-STD-461	Electromagnetic Compatibility Testing
MIL-STD-810	Environmental Testing

EUROPE: EMISSIONS

EN55011	ISM Equipment
EN55013	Broadcast Receivers
EN55014	Household Appliances
EN55015	Luminaires
EN55022	Information Technology Equipment
EEN60555/EN61000-3	Power Line Disturbances
EN60555/EN61000-6-3	
EN60555/EN61000-6-4	

EUROPE: IMMUNITY

EN61000-6-1	Generic Light Industrial & Household
EN61000-6-2	
EEN61000-4-X	Basic Immunity (All Parts)
EEN55104	Household Appliances
EEN60601-1-2	Medical
EEN55020	Broadcast Receivers
EN55024	ITE Immunity
EN61326-1	Laboratory/Measurement Equipment
EN50199	Welding Equipment
EN61131-1	PLC Equipment

EUROPE: WIRELESS AND RADIO EQUIPMENT DIRECTIVE

ETSI/EN 300, 301, and 302	Series Radio Testing
EMC Immunity to ETSI 489	Series Standards

TAIWAN

BSMI	Taiwanese Emissions

ENVIRONMENTAL TESTING

TEMPERATURE

-85 °C to +177 °C
Chamber sizes: 1' x 1' x 1' to 10' x 10' x 9'

HUMIDITY

5-100% RH, 0 °C to +85 °C
Chamber sizes: 2' x 2' x 2' to 10' x 10' x 9'

ALTITUDE & OVERPRESSURE

Altitude to 100,000ft, -40 °C to +177 °C
Chamber size: 35" x 35" x 35"
Overpressure per DO-160G & IEC 60601-1-11

VIBRATION & SHOCK

2.5" P-P displacement, 2 – 2000 Hz
MIL-STD-810H, DO-160G, MIL-STD-167A, IEC 60068-2, & NASA GEVS
Combined temperature & vibration from -40 °C to +85 °C
Terminal-Peak Sawtooth, Half-Sine, & Quasistatic

SALT FOG

MIL-STD-810H & ASTM B117
Chamber size: 72" x 42" x 42"

INGRESS

MIL-STD-810H Drip & Immersion
DO-160G Condensing & Continuous Stream
NEMA TS2 & NEMA 250
IEC 60529 IP1X – IP4X & IPX1 – IPX8

PRODUCT SAFETY

STANDARDS

IEC/EN 61010-1
IEC/EN 62368-1
IEC/EN 60335-1
IEC/EN 60601-1
IEC/EN 60601-1-11 & -1-12
EN 60204-1
IEC/EN 60065

PRODUCTS

Laboratory & Test Equipment
ITE & Office Equipment
General Household Appliances
Commercial Equipment
Medical & Home Medical Equipment
Machinery Equipment

CONTACT US

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