



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

F-SQUARED LABORATORIES
16740 Peters Road
Middlefield, OH 44062
Wendy Fuster Phone: 301 253 4500

ELECTRICAL (EMC)

Valid to: July 31, 2013

Certificate Number: 0793.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Tests (Parameters):

Standard(s):

Emissions

Generic or Product Specific

EN 50270; EN 60601-1-2; EN 61000-6-3; EN 61000-6-4;
EN 61326

Basic Standards

(Conducted – 9 kHz to 30 MHz;
Radiated – 9 kHz to 18 GHz;
3m / 10m site)

CFR 47, FCC Part 15, Subpart B (using ANSI C63.4-2003, 2009);
FCC Part 18 (using MP-5); EN 55011; EN 55022 (up to 6 GHz);
AS/NZS 3548; ICES-003; CNS 13438 (up to 6 GHz);
KN 22 (up to 6 GHz)

Current Harmonics

EN 61000-3-2

Voltage Fluctuations & Flicker

EN 61000-3-3

Immunity

Generic or Product Specific

EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;
EN 60601-1-2; KN 24; EN 50270

Basic Standards

Electrostatic Discharge (ESD)
(200 V to 16.5 kV, Air;
200 V to 8.8 kV, Contact)

EN 61000-4-2; IEC 61000-4-2;
KN 61000-4-2

Radiated Immunity

(30 MHz to 2.5 GHz, 3 V/m;
80 MHz to 2.5 GHz, 10 V/m)

EN 61000-4-3; IEC 61000-4-3;
KN 61000-4-3

Tests (Parameters):**Standard(s):**

Electrical Fast Transient/Burst (200 V to 4.4 kV)	EN 61000-4-4; IEC 61000-4-4; KN 61000-4-4
Surge Immunity (200 V to 4.4 kV; 100 A to 2.2 kA)	EN 61000-4-5; IEC 61000-4-5; KN 61000-4-5
Conducted Immunity (150 kHz to 230 MHz/Vrms)	EN 61000-4-6; IEC 61000-4-6; KN 61000-4-6
Power Frequency Magnetic Field Immunity (0.1 to 40 A/M, 50/60 Hz) (Excluding CRT)	EN 61000-4-8; IEC 61000-4-8; KN 61000-4-8
Voltage Dips, Short Interruptions, and Line Voltage Variations (Power Quality Test)	EN 61000-4-11; IEC 61000-4-11; KN 61000-4-11

On the following types of products/equipment:

Information Technology Equipment (ITE); Scientific Equipment; Industrial Equipment; Test & Measurement Equipment; Lighting Equipment; Household Appliances / Electric Tools; Audio / Video Equipment; Medical Equipment; Electrical Control Equipment; and Electrical Laboratory Equipment.

Technical Regulations for the Republic of Korea

Technical Requirements for Electromagnetic Interference (RRA Public Notification 2011-18, July 5, 2011)
Conformity Assessment Procedure for Electromagnetic Interference (RRA Announce 2010-5, Dec 24, 2010)
Technical Requirements for Electromagnetic Susceptibility (RRA Public Notification 2011-17, July 5, 2011)
Conformity Assessment Procedure for Electromagnetic Susceptibility (RRA Announce 2010-6, December 24, 2010)





The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

F-SQUARED LABORATORIES

Middlefield, OH


for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 7th day of February 2012.





President & CEO
For the Accreditation Council
Certificate Number 0793.02
Valid to November 30, 2013

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.