



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: February 29, 2012

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

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

CFR 47, FCC Part 15 Subpart B using ANSI C63.4-2003;
FCC Part 18 (using MP-5); EN 50081-1; EN 55011;
EN 55022 (up to 1GHz); AS/NZS 3548; ICES-003;
EN 60601-1-2; CNS 13438:2006 (up to 1 GHz); EN 61326;
EN 61000-6-3; EN 61000-6-4;
KN 22 (up to 1 GHz);
KCC Notice No. 2008-39: Technical Requirements for
Electromagnetic Interference, Annex 8;
RRA Announce 2008-11, December 16, 2008: Conformity
Assessment Procedure for Electromagnetic Interference

Current Harmonics

EN 61000-3-2

Voltage Fluctuations & Flicker

EN 61000-3-3

Immunity

KCC Notice No. 2008-38: Technical Requirements for
Electromagnetic Susceptibility, Annex 1-7;
RRA Announce 2008-11, December 16, 2008: Conformity
Assessment Procedure for Electromagnetic Susceptibility

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

EN 61000-4-2; IEC 61000-4-2; EN 60601-1-2;
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;
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; EN 60601-1-2;
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;
KN 61000-4-3

Electrical Fast Transient/Burst
(200V to 4.4 kV max)

EN 61000-4-4; IEC 61000-4-4; EN 60601-1-2;
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;
KN 61000-4-4

Tests (Parameters):

Surge Immunity
(200 V to 4.4 kV max;
100 A to 2.2. kA)
Conducted Immunity
(150 kHz to 230 MHz/Vrms)

Power Frequency Magnetic Field
Immunity
(0.1 to 40 A/M @ 50/60 Hz)

Voltage Dips, Short Interruptions,
and Line Voltage Variations
(Power Quality Test)

Standard(s):

EN 61000-4-5; IEC 61000-4-5; EN 60601-1-2;
EN 61326; EN 61000-6-1; EN 61000-6-2; EN 55024;
KN 61000-4-5
EN 61000-4-6; IEC 61000-4-6;
EN 61326; EN 61000-6-1; EN 61000-6-2; EN 55024;
EN 60601-1-2; KN 61000-4-6

EN 61000-4-8; IEC 61000-4-8;
EN 61000-6-1 (*excluding CRT*); EN 61000-6-2 (*excluding CRT*);
EN 55024; EN 60601-1-2; KN 61000-4-8

EN 61000-4-11; IEC 61000-4-11; EN 61326; EN 61000-6-1;
EN 61000-6-2; EN 55024; EN 60601-1-2; 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.



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 30th day of December 2011.



A handwritten signature in black ink, reading "Peter Abney", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 0793.02
Valid to February 29, 2012
Revised February 01, 2012

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