



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: November 30, 2023

Certificate Number: 2829.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive sub-components, information technology equipment (ITE), medical electrical equipment, electric motors, and various electronic and electrical components/systems:

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2}:</u>
Automotive EMC	
RF Emissions (Radiated and Conducted)	CISPR 25 (2008); CISPR 25; EN 55025 (2008); EN 55025; AS/NZS CISPR 25 (2004); AS/NZS CISPR 25
Electrostatic Discharge (ESD) Immunity	ISO 10605 (2008); ISO 10605
Absorber Lined Shielded Enclosure (ALSE) RF Immunity	ISO 11452-2 (2004); ISO 11452-2
TEM Cell RF Immunity	ISO 11452-3 (2001); ISO 11452-3
Bulk Current Injection RF Immunity	ISO 11452-4 (2005); ISO 11452-4
Stripline Immunity	ISO 11452-5 (2002); ISO 11452-5
Portable Transmitter RF Immunity	ISO 11452-9 (2012); ISO 11452-9
Automotive Transient Immunity	ISO 7637-2 (2004); ISO 7637-2; ISO 7637-3 (2007) (CCC only); ISO 7637-3 (CCC only)
Electrical Load	ISO 16750-2
Electric Vehicle Conductive Charging System	IEC 61851-21-2
Automotive EMC	UN ECE REG 10 (Automotive)

Test Technology:

Test Method(s) ^{1,2}:

Unintentional Emissions Radiated & Conducted

U.S. (FCC)

*(3m semi-anechoic chamber,
up to 40 GHz)*

47 CFR, FCC Part 15, Subpart B
(using ANSI C63.4-2014);
ANSI C63.4-2014; ANSI C63.4a-2017

**Industrial, Scientific, and Medical
(Consumer ISM)**

47 CFR, FCC Part 18 (using MP-5:1986);
MP-5:1986

**Canada (ISED)
Unintentional Radiators**

ICES-003

**Industrial, Scientific, and Medical
(ISM) Radio Frequency Generators**

ICES-001

**International
Unintentional Radiators**

Information Technology

AS/NZS CISPR 22; CISPR 22; EN 55022

Multimedia Equipment

AS/NZS CISPR 32; CISPR 32; EN 55032

Intentional Emissions Unlicensed Transmitters

U.S. (FCC)

Intentional Radiators

47 CFR, FCC Part 15 C Unlicensed Transmitters
(using ANSI C63.10-2013);
ANSI C63.10-2013

U-NII without DFS Intentional Radiators

47 CFR FCC Part 15 E, U-NII without DFS
(using ANSI C63.10-2013)

**Canada (ISED)
Intentional Radiators**

RSS-GEN;
RSS-102 Measurement (RF Exposure);
RSS-102 Measurement (NS);
SPR-002 (Nerve Stimulation); IEEE C95.3;
RSS-210; RSS-247 (without DFS); RSS-310

Generic Standards (Residential)

AS/NZS 61000.6.3; IEC 61000-6-3; EN 61000-6-3

Generic Standards (Industrial)

AS/NZS 61000.6.4; IEC 61000-6-4; EN 61000-6-4

Industrial, Scientific, and Medical

AS CISPR 11; CISPR 11; EN 55011

Vehicles, Boats, and Internal
Combustion Engines

AS/NZS CISPR 12; CISPR 12; EN 55012

Household Appliances, Electric Tools,
and Similar Apparatus

AS/NZS CISPR 14.1; CISPR 14.1; EN 55014-1

Test Technology:**Test Method(s) ^{1,2}:**

Electrical Lighting & Similar Equipment
Information Technology

AS/NZS CISPR 15; CISPR 15; EN 55015
AS/NZS CISPR 22; CISPR 22; EN 55022

Multimedia Equipment

AS/NZS CISPR 32; CISPR 32; EN 55032;
AS/NZS CISPR 35; CISPR 35; EN 55035

Vehicles, Boats, and Other Devices
Equipped with Internal Combustion
Engines, Traction Batteries, or Both

ICES-002

Information Technology Equipment
(including digital apparatus)

ICES-003

Lighting Equipment

ICES-005

Medical Electrical Equipment –
Part 1-2: General Requirements for Basic
Safety & Essential Performance – Collateral
Standard: Electromagnetic Disturbance –
Requirements and Tests

IEC 60601-1-2; EN 60601-1-2

Electrical Equipment for Measurement,
Control and Laboratory use –
EMC Requirements – Part 2-6:
Particular Requirements – in vitro
Diagnostic (IVD) Medical Equipment

IEC 61326-2-6; EN 61326-2-6

Electrical Equipment for Measurement,
Control & Laboratory use – EMC
Requirements – Part 1: General Requirements

IEC 61326-1; EN 61326-1

Railway Applications – EMC
Part 3-2: Rolling Stock – Apparatus

EN 50121-3-2

Railway Applications – EMC –
Part 4: Emission & Immunity of the
Signaling & Telecommunications Apparatus

EN 50121-4

Railway Applications – Rolling Stock
Electronic Equipment

EN 50155

Electromagnetic Compatibility –
Product Family Standard for Audio, Video,
Audio-visual, and Entertainment Lighting
Control Apparatus for Professional use –
Emissions

EN 55103-1

Road Traffic Signal Systems – EMC

EN 50293

Electrical Apparatus for the Detection and
Measurement of Combustible Gases,

EN 50270

Test Technology:**Test Method(s) ^{1,2}:**

Toxic Gases, or Oxygen

Harmonic Current Emissions

AS/NZS 61000-3-2; IEC 61000-3-2; EN 61000-3-2

Voltage Fluctuation and Flicker Emissions

AS/NZS 61000-3-3; IEC 61000-3-3; EN 61000-3-3

Immunity EMCElectrostatic Discharge (ESD)
ImmunityEN 61000-4-2 (2009); EN 61000-4-2;
IEC 61000-4-2 (2008); IEC 6100-4-2;
AS/NZS 61000.4.2 (2002); AS/NZS 61000.4.2

Radiated RF Immunity

EN 61000-4-3 (2008); EN 61000-4-3;
IEC 61000-4-3 (2008); IEC 61000-4-3;
AS/NZS 61000.4.3 (2006); AS/NZS 61000.4.3Electric Fast Transient / Burst
ImmunityEN 61000-4-4 (2005); EN 61000-4-4;
IEC 61000-4-4 (2004); IEC 61000-4-4;
AS/NZS 61000.4.4 (2006); AS/NZS 61000.4.4

Surge Immunity

EN 61000-4-5 (2006) (*excluding clause 6.2*);
EN 61000-4-5 (*excluding clause 6.2*);
IEC 61000-4-5 (2005) (*excluding clause 6.2*)

Conducted RF Immunity

EN 61000-4-6 (2007); EN 61000-4-6;
IEC 61000-4-6 (2008); IEC 61000-4-6;
AS/NZS 61000.4.6 (2006); AS/NZS 61000.4.6Power Frequency Magnetic
Field ImmunityEN 61000-4-8 (1994); EN 61000-4-8;
IEC 61000-4-8 (2001); IEC 61000-4-8;
AS/NZS 61000.4.8 (2002); AS/NZS 61000.4.8

Pulse Magnetic Field Immunity

EN 61000-4-9 (1993); EN 61000-4-9;
IEC 61000-4-9 (2001); IEC 61000-4-9Damped Oscillatory Magnetic
Field ImmunityEN 61000-4-10 (2017); EN 61000-4-10;
IEC 61000-4-10 (2016); IEC 61000-4-10Voltage Dips, Short Interruptions,
and Voltage Variations ImmunityEN 61000-4-11 (2004); EN 61000-4-11;
IEC 61000-4-11 (2004); IEC 61000-4-11;
AS/NZS 61000.4.11 (2004); AS/NZS 61000.4.11

Ring Wave Immunity

EN 61000-4-12 (2017); EN 61000-4-12;
IEC 61000-4-12 (2017); IEC 61000-4-12;Harmonic and Inter-harmonic
ImmunityIEC 61000-4-13 (2002); IEC 61000-4-13;
EN 61000.4.13 (2009); EN 61000-4-13;
AS/NZS 61000.4.13 (2006); AS/NZS 61000.4.13

Common Mode Immunity

EN 61000-4-16 (2016); EN 61000-4-16;
IEC 61000-4-16 (2015); IEC 61000-4-16

Test Technology:

Test Method(s) ^{1,2}:

Immunity EMC (cont.)

Damped Oscillatory Immunity

EN 61000-4-18 (2019); EN 61000-4-18;
IEC 61000-4-18 (2019); IEC 61000-4-18

DC Dips and Interrupts

EN 61000-4-29; IEC 61000-4-29;
AS/NZS 61000.4.29

Military EMC

MIL-STD-461D / MIL-STD-462D,
(CE101, CE102, RE101, RE102, CS101, CS114,
CS115, CS116, RS101, RS103);
MIL-STD-461E,
(CE101, CE102, RE101, RE102, CS101, CS114,
CS115, CS116, RS101, RS103);
MIL-STD-461F,
(CE101, CE102, RE101, RE102, CS101, CS106,
CS114, CS115, CS116, RS101, RS103);
MIL-STD-461G (*up to 18 GHz and 200 V/m*),
(RE101, RE102, CE101, CE102, RS101, RS103,
CS101, CS114, CS115, CS116, CS118);

MIL-STD-1275E

Aircraft

RTCA DO-160 F and G:
Section 20.4: Radio Frequency Susceptibility
(Conducted);
Section 20.5: Radio Frequency Susceptibility
(Radiated – 2 MHz to 18 GHz up to 200 V/m);

RTCA DO-160 F and G:
Section 4: Temperature and Altitude
(*excluding section 4.6*)
Section 5: Temperature Variation Testing
Section 6: Humidity Testing
Section 8: Vibration Testing
Section 15: Magnetic Effect Testing
Section 16: Power Input Testing
Section 18: Audio Frequency Conducted
Susceptibility (Power Input Testing)
Section 20: Radio Frequency Susceptibility
(Radiated and Conducted)
Section 21: Emission of Radio Frequency Energy
Section 24: Icing Testing (Category A only)
Section 25: Electrostatic Discharge Immunity
Section 26: Fire Flammability

RF Shielding Performance

MIL-STD-285; IEEE 299

RADHAZ (Radiation Hazard)

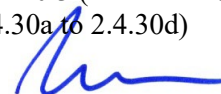
AS 2772 ²; ARPANSA RHS 30; IEC 62233

Electronic Switches

EN 60669-2-1 (Section 26); IEC 60669-2-1 (Section 26)

Gaming Machine National Standard
(GMNS)

AS/NZS GMNS Version 10.3 (Sections 2.3.51 to
2.3.59, 2.4.27, and 2.4.30a to 2.4.30d)



Test Technology:

Test Method(s) ^{1,2}:

Generic Immunity	EN 61000-6-1; IEC 61000-6-1; AS/NZS 61000-6-1; EN 61000-6-2; IEC 61000-6-2; AS/NZS 61000-6-2
Household EMC	AS/NZS CISPR 14-2; CISPR 14-2
Household Safety	IEC 60335-1; AS/NZS 60335-1 (Sections 14, 15, and 19.11.4)
Information Technology	AS/NZS CISPR 24; CISPR 24
Laboratory	EN 61326-1
Lighting	EN 61547
Maritime	EN 60945 (Sections 5.2.2, 7, 8, and 10)
Medical	EN 60601-1-2
Alarm Systems	EN 50130-4 (<i>excluding EN 61000-4-20</i>)
Overhead AC Powerlines and HV Installations	AS 2344
Radio Spectrum Matters (ERM)	ETSI EN 300 220; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 301 489-1; ETSI EN 301 489-3; ETSI EN 301 489-17; AS/NZS 4268
Railway	EN 50121-3-1; EN 50121-3-2; IEC 50155
Traffic Signals	AS/NZS 2144; EN 50293

Environmental

Surface Resistance Test	IEC 60079-0 – Explosive Atmospheres – Section 26.13 – Surface resistance test of part of enclosures of non-metallic materials; ASTM D257-14 – DC Resistance or Conductance of Insulating Materials - Section 12.3 – Surface Resistance or Conductance.
Temperature / Humidity	IEC 60068-2-1 (2007); IEC 60068-2-1; AS 60068.2.1 (2003); AS 60068-2-1; EN 60068-2-1 (2007); EN 60068-2-1; IEC 60068-2-2 (2007); IEC 60068-2-2; EN 60068-2-2 (2007); EN 60068-2-2; AS 60068.2.2 (2003); AS 60068.2.2; IEC 60068-2-14 (2009) - Part N; IEC 60068-2-14 - Part N; EN 60068-2-14 (2009) - Part N; EN 60068-2-14 - Part N;

Test Technology:

Environmental
Temperature/Humidity
(cont.)

Vibration / Shock:
1,000 kgf Sine (PK)
1,000 kgf Random (RMS)
2,000 kgf Shock (PK)
(5 to 2,800) Hz
(1 to 2,800) Hz in Manual Mode
Max. Velocity: 1.7 m/sec
Max. Acceleration: up to 90 g (bare table)
Max Rated Displacement:
51mm P-P standard

Ingress Protection

UV

Flammability

Salt

Impact

Test Method(s) ^{1,2}:

AS 60068-2-14 (2003) - Part N;
AS 60068-2-14 - Part N;
IEC 60068-2-30 (2005); IEC 60068-2-30;
EN 60068-2-30 (2005); EN 60068-2-30;
AS 60068.2.30 (2003); AS 60068-2.30;
MIL-STD-810G
Methods 501.5, 502.5, 503.5, and 507.5;
RTCA DO-160G:
Section 4: Temperature & Altitude
(excluding section 4.6),
Section 5: Temperature Variation Testing,
Section 6: Humidity Testing;
ISO 16750-4 (excluding ice water shock test and
gas corrosion test)

IEC 61373; EN 61373;
IEC 60068-2-6; EN 60068-2-6; AS 60068-2-6;
IEC 60068-2-27; EN 60068-2-27; AS 60068-2-27;
MIL-STD-810G;
RTCA DO-160G;
ISO 16750-3

AS 60529; IEC 60529; EN 60529;
MIL-STD-810G Method 510.5;
NEMA 250; ISO 20653

EN ISO 4892-2:2016; EN ISO 4892-3:2016;
AS 60068.2.5 Environmental Testing - Tests –
Test Sa- Simulated Solar Radiation at Ground Level;
MIL-STD-810G – Method 505.6
(Solar Radiation Sunshine)
AECTP-300-3 Method 305

AS/NZS 60695.2.10; AS/NZS 60695.2.11;
RTCA DO-160G, Section 26 - Fire, Flammability;
EN 60695-2-12 Glowing Hot-wire;
IEC 60512-20-1 Needle Flame;
IEC 60695-11-5 Needle Flame

MIL-STD-810G, Method 509.5 - Salt Fog;
AS 60068.2.11; AS 60068.2.52;
EN 60068.2.11; EN 60068.2.52
IEC 60068.2.11; IEC 60068.2.52
RTCA DO-160G, Section 14 - Salt Fog

AS 60068.2.75; IEC 60068.2.75; EN 60068.2.75

Test Technology:

Product Safety

Audio/video, Information & communication technology equipment
(*see Table #1 exclusion list below)

Household and similar electrical appliance – Safety
(*see Table #2 exclusion list below)

Test Method(s) ^{1,2}:

AS/NZS 62368.1; IEC 62368-1; EN 62368-1

AS/NZS 60335.1; IEC 60335-1; EN 60335-1;
AS/NZS 60335.2.2 (AS/NZS National variations only);
AS/NZS 60335.2.3 (AS/NZS National variations only);
AS/NZS 60335.2.4 (AS/NZS National variations only);
AS/NZS 60335.2.5 (AS/NZS National variations only);
AS/NZS 60335.2.6 (AS/NZS National variations only);
AS/NZS 60335.2.7 (AS/NZS National variations only);
AS/NZS 60335.2.8 (AS/NZS National variations only);
AS/NZS 60335.2.9 (AS/NZS National variations only);
AS/NZS 60335.2.10 (AS/NZS National variations only);
AS/NZS 60335.2.11 (AS/NZS National variations only);
AS/NZS 60335.2.12 (AS/NZS National variations only);
AS/NZS 60335.2.13 IEC 60335-2-13, EN 60335-2-13;
AS/NZS 60335.2.14 (AS/NZS National variations only);
AS/NZS 60335.2.15 (AS/NZS National variations only);
AS/NZS 60335.2.16 (AS/NZS National variations only);
AS/NZS 60335.2.17 (AS/NZS National variations only);
AS/NZS 60335.2.21 (AS/NZS National variations only);
AS/NZS 60335.2.23 (AS/NZS National variations only);
AS/NZS 60335.2.24 (AS/NZS National variations only);
AS/NZS 60335.2.25 (AS/NZS National variations only);
AS/NZS 60335.2.26, IEC 60335-2-26, EN 60335-2-26;
AS/NZS 60335.2.27 (AS/NZS National variations only);
AS/NZS 60335.2.28, IEC 60335-2-28, EN 60335-2-28;
AS/NZS 60335.2.29, IEC 60335-2-29, EN 60335-2-29;
AS/NZS 60335.2.31 (AS/NZS National variations only);
AS/NZS 60335.2.32 (AS/NZS National variations only);
AS/NZS 60335.2.34 (AS/NZS National variations only);
AS/NZS 60335.2.35 (AS/NZS National variations only);
AS/NZS 60335.2.40 (AS/NZS National variations only);
AS/NZS 60335.2.41; IEC 60335-2-41; EN 60335-2-41;
AS/NZS 60335.2.43; IEC 60335-2-43; EN 60335-2-43;
AS/NZS 60335.2.44 (AS/NZS National variations only);
AS/NZS 60335.2.45 (AS/NZS National variations only);
AS/NZS 60335.2.51 (AS/NZS National variations only);
AS/NZS 60335.2.52 (AS/NZS National variations only);
AS/NZS 60335.2.53 (AS/NZS National variations only);
AS/NZS 60335.2.54 (AS/NZS National variations only);
AS/NZS 60335.2.55 (AS/NZS National variations only);
AS/NZS 60335.2.56 (AS/NZS National variations only);
AS/NZS 60335.2.59 (AS/NZS National variations only);
AS/NZS 60335.2.60 (AS/NZS National variations only);
AS/NZS 60335.2.61 (AS/NZS National variations only);
AS/NZS 60335.2.65 (AS/NZS National variations only);
AS/NZS 60335.2.66 (AS/NZS National variations only);
AS/NZS 60335.2.67 (AS/NZS National variations only);
AS/NZS 60335.2.68 (AS/NZS National variations only);

Test Technology:

Household and similar electrical
appliance – Safety
(*see Table #2 exclusion list below)

Test Method(s) ^{1,2}:

AS/NZS 60335.2.69 (AS/NZS National variations only);
AS/NZS 60335.2.71 (AS/NZS National variations only);
AS/NZS 60335.2.72 (AS/NZS National variations only);
AS/NZS 60335.2.73; IEC 60335-2-73, EN 60335-2-73;
AS/NZS 60335.2.74, IEC 60335-2-74, EN 60335-2-74;
AS/NZS 60335.2.75 (AS/NZS National variations only);
AS/NZS 60335.2.77 (AS/NZS National variations only);
AS/NZS 60335.2.78 (AS/NZS National variations only);
AS/NZS 60335.2.79 (AS/NZS National variations only);
AS/NZS 60335.2.80 (AS/NZS National variations only);
AS/NZS 60335.2.81 (AS/NZS National variations only);
AS/NZS 60335.2.82 (AS/NZS National variations only);
AS/NZS 60335.2.83 (AS/NZS National variations only);
AS/NZS 60335.2.84 (AS/NZS National variations only);
AS/NZS 60335.2.85; IEC 60335-2-85; EN 60335-2-85;
AS/NZS 60335.2.86 (AS/NZS National variations only);
AS/NZS 60335.2.89 (AS/NZS National variations only);
AS/NZS 60335.2.90 (AS/NZS National variations only);
AS/NZS 60335.2.95 (AS/NZS National variations only);
AS/NZS 60335.2.96 (AS/NZS National variations only);
AS/NZS 60335.2.97 (AS/NZS National variations only);
AS/NZS 60335.2.98; IEC 60335-2-98; EN 60335-2-98;
AS/NZS 60335.2.100; IEC 60335-2-100; EN 60335-2-100;
AS/NZS 60335.2.101; IEC 60335-2-101; EN 60335-2-101;
AS/NZS 60335.2.102 (AS/NZS National variations only);
AS/NZS 60335.2.103 (AS/NZS National variations only);
AS/NZS 60335.2.105 (AS/NZS National variations only);
AS/NZS 60335.2.106 (AS/NZS National variations only);
AS/NZS 60335.2.108 (AS/NZS National variations only);
AS/NZS 60335.2.109 (AS/NZS National variations only);
AS/NZS 60335.2.113 (AS/NZS National variations only)

Safety of power transformers, power supplies,
reactors and similar products
(*see Table #3 exclusion list below)

AS/NZS 61558.1; IEC 61558-1; EN 61558-1;
AS/NZS 61558.2.4; IEC 61558-2-4; EN 61558-2-4;
AS/NZS 61558.2.5; IEC 61558-2-5; EN 61558-2-5;
AS/NZS 61558.2.6; IEC 61558-2-6; EN 61558-2-6;
AS/NZS 61558.2.8; IEC 61558-2-8; EN 61558-2-8;
AS/NZS 61558.2.16; IEC 61558-2-16; EN 61558-2-16

Safety requirements for electrical equipment
for measurement, control, and laboratory use
(*see Table #4 exclusion list below)

AS 61010.1; IEC 61010-1; EN 61010-1;
IEC 61010-2-010; EN 61010-2-010;
IEC 61010-2-020; EN 61010-2-020;
IEC 61010-2-040; EN 61010-2-040;
IEC 61010-2-051; EN 61010-2-051;
IEC 61010-2-081; EN 61010-2-081;
IEC 61010-2-101; EN 61010-2-101;
IEC 61010-2-201; EN 61010-2-201;
IEC 61010-2-202; EN 61010-2-202

AS/NZS 60601.1; IEC 60601-1; EN 60601-1

Test Technology:

Medical Electrical Equipment
(*see Table #5 exclusion list below)
Hand-held motor-operated electric tools

Electric motor-operated hand-held tools,
transportable tools and lawn and garden
machinery

Proof and Comparative Tracking Index

General requirements for electrical equipment
(*see Table #6 exclusion list below)

Test Method(s) ^{1,2}:

AS/NZS 60745.1 (AS/NZS National variations only);
AS/NZS 60745.2.1 (AS/NZS National variations only);
AS/NZS 60745.2.3 (AS/NZS National variations only);
AS/NZS 60745.2.4 (AS/NZS National variations only);
AS/NZS 60745.2.8 (AS/NZS National variations only);
AS/NZS 60745.2.12 (AS/NZS National variations only);
AS/NZS 60745.2.16 (AS/NZS National variations only);
AS/NZS 60745.2.18 (AS/NZS National variations only);
AS/NZS 60745.2.19 (AS/NZS National variations only);
AS/NZS 60745.2.20 (AS/NZS National variations only);
AS/NZS 60745.2.21 (AS/NZS National variations only);
AS/NZS 60745.2.22 (AS/NZS National variations only);
AS/NZS 60745.2.23 (AS/NZS National variations only)

AS/NZS 62841.1 (AS/NZS National variations only);
AS/NZS 62841.2.1 (AS/NZS National variations only);
AS/NZS 62841.2.2 (AS/NZS National variations only);
AS/NZS 62841.2.3 (AS/NZS National variations only);
AS/NZS 62841.2.4 (AS/NZS National variations only);
AS/NZS 62841.2.5 (AS/NZS National variations only);
AS/NZS 62841.2.6 (AS/NZS National variations only);
AS/NZS 62841.2.8 (AS/NZS National variations only);
AS/NZS 62841.2.9 (AS/NZS National variations only);
AS/NZS 62841.2.10 (AS/NZS National variations only);
AS/NZS 62841.2.11 (AS/NZS National variations only);
AS/NZS 62841.2.14 (AS/NZS National variations only);
AS/NZS 62841.2.17 (AS/NZS National variations only);
AS/NZS 62841.2.21 (AS/NZS National variations only);
AS/NZS 62841.3.1 (AS/NZS National variations only);
AS/NZS 62841.3.4 (AS/NZS National variations only);
AS/NZS 62841.3.6 (AS/NZS National variations only);
AS/NZS 62841.3.7 (AS/NZS National variations only);
AS/NZS 62841.3.9 (AS/NZS National variations only);
AS/NZS 62841.3.10 (AS/NZS National variations only);
AS/NZS 62841.3.12 (AS/NZS National variations only);
AS/NZS 62841.3.13 (AS/NZS National variations only);
AS/NZS 62841.3.14 (AS/NZS National variations only);
AS/NZS 62841.4.1 (AS/NZS National variations only);
AS/NZS 62841.4.2 (AS/NZS National variations only);
AS/NZS 62841.4.3 (AS/NZS National variations only);
AS/NZS 62841.4.4 (AS/NZS National variations only);
AS/NZS 62841.4.5 (AS/NZS National variations only)

AS/NZS 60112; IEC 60112; EN 60112

AS/NZS 3100;
AS/NZS 3105;
AS/NZS 3112;
AS/NZS 3120;
AS/NZS 3121;
AS/NZS 3122;
AS/NZS 3133;

Test Technology:**Test Method(s) ^{1,2}:**AS/NZS 3136;
AS/NZS 3199

Performance of external power suppliers

AS/NZS 4665.1:2005+A1:2009
AS/NZS 4665.2:2005+A1:2009**Exclusion Tables**

*Table #1: Clauses excluded for electrical product safety testing

Clause	Test
5.4.1.10.2	Vicat test
5.4.12	Insulating liquid
8.5.5	High pressure lamps
10	Radiations
G.2.3	Relay controlling connectors supplying power to other equipment
G.5.3.4	Transformers using fully insulated winding wire (FIW)
G.9	Integrated circuit (IC) current limiters
G.15	Pressurized liquid filled components
Annex J	Insulated winding wires for use without interleaved insulation
Annex M.7	Risk of explosion from lead acid and NiCd batteries
Annex M.8.2	Internal protection from external spark ignition source – spark test
Annex R	Limited short-circuit test
Annex U	Mechanical strength of CRTs and protection against the effects of implosion

Exclusion Tables

*Table #2: Clauses excluded for electrical product safety testing

Clause	Test
15	Accredited only for Humidity test (External dimensions of appliance less than 100×100×100cm)
22.16	Automatic cord reel test
22.32	Rubber aging test, ceramic material strength test
22.46 and Annex R	Software evaluation
22.48	Prevent back siphonage test of IEC 61770
27.4	Electroplated coating thickness test in ISO 2178 or ISO 1463
Annex J	Coated printed circuit boards

Exclusion Tables

*Table #3: Clauses excluded for electrical product safety testing

Clause	Test
17	Accredited only for: Humidity test (External dimensions of appliance less than 100×100×100cm)
19.9	Oxygen bomb test
20	The aging test for rubber components

Exclusion Tables

*Table #4: Clauses excluded for electrical product safety testing

Clause	Test
10.5.3	Vicat test
12.2.1	Ionizing radiation
12.3	UV Radiation
12.4	Microwave Radiation above 40GHz
12.5.1	Sound pressure level
12.5.2	Ultrasonic pressure
12.6	Laser sources
13.2.3	Implosion of cathode ray tubes
Annex H	Qualification of conformal coating for protection against pollution

Exclusion Tables

*Table #5: Clauses excluded for electrical product safety testing

Clause	Test
8.8.4.2	Oxygen bomb test
9.5.2	Cathode ray tubes test
9.6.2.1	Audible acoustic energy test
9.6.3	Hand-transmitted vibration test
10.1	X-radiation
10.3	Microwave radiation above 40GHz
10.4	Lasers
11.2	Fire prevention – Spark ignition test
15.4.3.4	Primary Lithium batteries tests according to IEC 60086-4
15.4.3.4	Secondary Lithium batteries tests according to IEC 62133
Annex G	Protection against hazards of ignition of flammable anesthetic mixtures
Annex L	Insulated winding wires for use without interleaved insulation

Exclusion Tables

*Table #6: Clauses excluded for electrical product safety testing

Clause	Test
Clause 13.15 of AS 3133:2020	Test for switches intended for self-ballasted lamp loads

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

² The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ³:

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013	40000
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000

³ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Accredited Laboratory

A2LA has accredited

COMPLIANCE ENGINEERING PTY LTD

Keysborough, Victoria, Australia

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 9th day of December 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2829.01
Valid to November 30, 2023

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