



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

I.T.L. PRODUCT TESTING LTD.

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ELECTRICAL

Valid To: September 30, 2025

Certificate Number: 1152.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the organization's compliance with A2LA's FDA ASCA Accreditation Program¹ requirements), accreditation is granted to this laboratory at the location listed above, ***as well as the satellite laboratory locations listed below***, to perform the following product safety, electromagnetic compatibility, and telecommunications testing:

Test Technology:

Test Method(s) ¹:

Product Safety

Information Technology Equipment (ITE)
(*Excluding high current arcing ignition test,
hot flaming oil test, abrasion resistance test,
cathode ray tube test, high voltage component
test, acoustic pressure, and
ionizing radiation test methods*)

EN/IEC/UL 60950-1; EN/IEC/UL 60950-21;
EN/IEC/UL 60950-22; SI 60950 Parts 1, 21, 22;
CAN CSA C22.2 No. 60950-1; CNS 14336-1;
EN 61204-7; IEC 61204-7;
IEC/EN 60695-11-3, -4, -5, -10, -20;
IEC/EN 60695-2-10, -11, -12, -13;
UL 775;
CAN/CSA C22.2 301;
CAN/CSA C22.2 142;
AS/NZS 3260; AS/NZS 60950; AS/NZS 60950.1;
AS/NZS 3100:2009 (*excluding Annex B4*);
TS001;
IEC/EN/UL/CAN 62368-1;
SI 62368 Part 1; AS/NZS 62368.1;
IEC 60850-3; SI 990;
IEEE 1613; UL 1310

Laser and LEDs and UV

IEC 60825-1, -2, -9; EN 60825-1, -2, -9;
SI 60825 Part 1, 2;
21 CFR 1040; UL 8750; EN 12198-1, -2, -3

Batteries

UL 1642; UL 2054; UL 1989;
IEC/EN/UL 62133-1,-2; SI 62133 Part 1, 2;
IEC 60086-4; UN 38/3;
IEC/EN/SI 61960-3; IEC 62952-1; IEC 62952-2;
EN/IEC 60254-1; SI 60254 Part 1

Test Technology:

Product Safety (Cont.)

RoHS

Medical

(Excluding cathode ray tubes, pressure vessels, natural latex rubber aging, hand-transmitted vibration, ignition of flammable anaesthetic mixtures, flexibility, adherence, X-radiation, sterilization, bio compatibility testing)

Test Method(s) ¹:

EN 50581; EN IEC 63000

IEC/EN/UL/ANSI/CAN/SI 60601-1;
IEC/EN/CAN/SI 60601-1-1, -1-3, -1-4, -1-6, -1-8, -1-9, -1-10, -1-11, 1-12;
IEC 60601-1 Edition 3.2 2020-08 Consolidated Version;
IEC 60601-1-11 Edition 2.0 2015-01;
IEC 60601-1-11 Edition 2.1 2020-07;
ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021];
IEC 60601-1-12 Edition 1.0 2014-06;
IEC 60601-1-12 Edition 1.1 2020-07;
IEC 60601-1-2 Edition 4.0 2014-02;
IEC 60601-1-2 Edition 4.1 2020-09;
IEC 60601-1-3 Edition 2.2 2021-01;
IEC 60601-1-3 Edition 2.1 2013-04;
IEC 60601-1-6 Edition 3.1 2013-10;
IEC 60601-1-6 Edition 3.2 2020-07;
IEC 60601-1-8 Edition 2.1 2012-11;
IEC 60601-1-8 Edition 2.2 2020-07;
EN13718-1;
IEC/EN/CAN/SI 60601-2-1;
IEC/EN/CAN/SI 60601-2-2; IEC/EN/CAN/SI 60601-2-3;
IEC/EN/CAN/SI 60601-2-4; IEC/EN/CAN/SI 60601-2-5;
IEC/EN/CAN/SI 60601-2-9; IEC/EN/CAN/SI 60601-2-10;
IEC/EN/CAN/SI 60601-2-11; IEC/EN/CAN/SI 60601-2-17;
IEC/EN/CAN/SI 60601-2-18; IEC/EN/CAN/SI 60601-2-19;
IEC/EN/CAN/SI 60601-2-20; IEC/EN/CAN/SI 60601-2-21
IEC/EN/CAN/SI 60601-2-22; IEC/EN/CAN/SI 60601-2-23;
IEC/EN/CAN/SI 60601-2-24; IEC/EN/CAN/SI 60601-2-25;
IEC/EN/CAN/SI 60601-2-26; IEC/EN/CAN/SI 60601-2-27;
IEC/EN/CAN/SI 60601-2-28; IEC/EN/CAN/SI 60601-2-29;
IEC/EN/CAN/SI 60601-2-30; IEC/EN/CAN/SI 60601-2-31;
IEC/EN/CAN/SI 60601-2-32; IEC/EN/CAN/SI 60601-2-33;
IEC/EN/CAN/SI 60601-2-34; IEC/EN/CAN/SI 60601-2-35;
IEC/EN/CAN/SI 60601-2-36; IEC/EN/CAN/SI 60601-2-37;
IEC/EN/CAN/SI 60601-2-38; IEC/EN/CAN/SI 60601-2-39;
IEC/EN/CAN/SI 60601-2-40; IEC/EN/CAN/SI 60601-2-41;
IEC/EN/CAN/SI 60601-2-43; IEC/EN/CAN/SI 60601-2-44;
IEC/EN/CAN/SI 60601-2-45; IEC/EN/CAN/SI 60601-2-46;
IEC/EN/CAN/SI 60601-2-47; IEC/EN/CAN/SI 60601-2-49;
IEC/EN/CAN/SI 60601-2-50; IEC/EN/CAN/SI 60601-2-51;
IEC/EN/CAN/SI 60601-2-52; IEC/EN/CAN/SI 60601-2-54;
IEC/EN/CAN/SI 60601-2-57; IEC/EN/CAN/SI 60601-2-60;
IEC/EN/CAN/SI 60601-2-62; IEC/EN/CAN/SI 60601-2-63;
IEC/EN/CAN/SI 60601-2-64; IEC/EN/CAN/SI 60601-2-65;
IEC/EN/CAN/SI 60601-2-66; IEC/EN/CAN/SI 60601-2-68;
IEC/EN/CAN/SI 60601-2-75; IEC/EN/CAN/SI 60601-2-83;
IEC 60601-2-2 Edition 6.0 2017-03;
IEC 60601-2-5 Edition 3.0 2009-07;
IEC 60601-2-10 Edition 2.1 2016-04;
ISO 80601-2-12 First edition 2011-04-15;
ISO 80601-2-12 Second edition 2020-02;
IEC 60601-2-18: Edition 3.0 2009-08;
IEC 60601-2-22 Edition 3.1 2012-10;

Test Technology:

Product Safety (cont.)
Medical (cont.)

Test Method(s) ¹:

IEC 60601-2-25 Edition 2.0 2011-10;
IEC 60601-2-27 Edition 3.0 2011-03;
IEC 60601-2-28 Edition 2.0 2010-03;
IEC 60601-2-28 Edition 3.0 2017-06;
IEC 80601-2-30 Edition 1.1 2013-07;
IEC 80601-2-30 Edition 2.0 2018-03;
IEC 60601-2-33 Edition 3.2 b:2015;
IEC 60601-2-34 Edition 3.0 2011-05;
IEC 80601-2-35 Edition 2.1 2016-04;
IEC 60601-2-36 Edition 2.0 2014-04;
IEC 60601-2-37 Edition 2.1 2015;
IEC 60601-2-43 Edition 2.2 2019-10;
IEC 60601-2-43 Edition 2.1 2017-05;
IEC 60601-2-44 Edition 3.2: 2016;
IEC 60601-2-47 Edition 2.0 2012-02;
IEC 60601-2-52 Edition 1.0 2009-12;
IEC 60601-2-54 Edition 1.1 2015-04;
IEC 60601-2-54 Edition 1.2 2018-06;
IEC 60601-2-57 Edition 1.0 2011-01;
IEC 60601-2-62 Edition 1.0 2013-07;
IEC 60601-2-64 Edition 1.0 2014-09;
IEC 60601-2-68 Edition 1.0 2014-09;
IEC/EN 62354; IEC/EN 62304; IEC/EN 62353; IEC 62667;
UL 544; UL 1069; UL 73; CAN/CSA-C22.2 No. 205;
UL 2560; AS/NZS 3200;
ISO/IEC/EN 14971; ISO 9919; ISO 10651-1, -2, -3, -6;
CAN/CSA-C22.2 No.601.1;
CAN/CSA-C22.2 No.60601:2008;
IEC/EN 62366; EN 60601-2-25; ISO 15004-2;
IEC 80601-2-30, -35, -58, -59, -60, -62, -71, -77, -78;
IEC 80601-2-60 Edition 2.0 2019-06;
IEC 80601-2-77 Edition 1.0 2019-07;
ISO 80601-2-12, -13, -49, -55, -56, -60, -61, -67,
-69, -70, -72, -74, -79, -80, -85, -87, 90;
ISO 80601-2-87 First Edition 2021-04;
ISO 80601-2-56 Second Edition 2017-03;
ISO 80601-2-61 Second Edition 2017-12 (Corrected version
2018-02);
ISO 80601-2-70 First Edition 2015-01-15;
ISO 80601-2-72 First Edition 2015-04-1;
ISO 80601-2-79 First Edition 2018-07;
ISO 80601-2-80 First Edition 2018-07;
SI 80601 Parts 2.12, 2.13, 2.56, 2.59, 2.60; ISO 8185;
CAN/CSA-C22.2 NO. 80601-2-13, -2-67, -2-72;
ISO 15004-1; ETSI EN 301 598; ISO 11608-1, -2, -4, -5;
ISO 15197; ISO 21649;
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012,
C1:2009/(R)2012 and A2:2010/(R)2012 (Consolidated Text);
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012
C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl.
AMD2:2021] (excluding 9.5.2, 9.7, 8.8.4.2, 9.6.3, L.3.2, 10.1,
11.6.7, 11.7, 11.4, Annex G);
BS EN ISO 15223-1; ISO 8600-1;
ASTM F1541-02; ASTM F2554-10;
IEC/TR 80002-1; ISO/TR 24971;

Test Technology:

Product Safety (cont.)
Medical (cont.)

Equipment for Measurement, Control, and
Laboratory Use
*(Excluding acoustic pressure, and ionizing
radiation test methods)*

Household and Similar Electrical Apparatus
*(Excluding, software evaluation, oxygen bomb
test)*

Test Method(s) ¹:

ANSI/AAMI/IEC/EN 80001-1, -2-1, -2-2, -2-3, -2-4;
ISO 10079-1-2, -3; IEC 62563-1;
ANSI Z80.36; EN 12184; ISO 7176; ISO 7176-9, -13;
EN 12182; EN 1865; EN 794-1,-3; EN 1789;
ISO 10939; EN ISO 23328-1, -2; ISO 17510; UL 962

IEC/EN/UL/SI 61010-1²;
IEC 61010-2-81
(Semi-/Automatic Lab Sample Analyzers);
EN 61010-1²;
IEC 61010-1 Edition 3.1 2017-01 *(excluding 12.5.1, 12.2)*;
IEC/EN/UL/SI 61010-2-40, -2-101, -2-010, -2-040, -2-201;
UL 3101-1²; UL 61010A-1²; UL 61010B-1²;
UL 61010C-1²; UL 3111-1²; UL 61010-1²;
CAN/CSA-22.2 No. 61010-1; UL 61010-2-201;
ISA-82.02.1; AS 61010-1 ²; SI 61010 Part 1²;
UL/EN/IEC 62109-1

IEC/EN/UL/AS/NZS/J 60335-1; SI 900 Part 1;
SI 994 Part 1; IEC/EN/AS/NZS/J 60335-2-2;
SI 900 Part 2.2; IEC/EN/UL/AS/NZS/J 60335-2-3;
SI 900 Part 2.3;
IEC/EN/AS/NZS/J 60335-2-5; SI 900 Part 2.5;
IEC/EN/AS/NZS/J 60335-2-6; SI 900 Part 2.6;
IEC/EN/AS/NZS/J 60335-2.7; SI 900 Part 2.7;
IEC/EN/UL/AS/NZS 60335-2-8; SI 900 Part 2.8;
IEC/EN/AS/NZS/J 60335-2-9; SI 900 Part 2.9;
IEC/EN/AS/NZS/J 60335-2-11; SI 900 Part 2.11;
IEC/EN/AS/NZS/J 60335-2-12; SI 900 Part 2.12;
IEC/EN/AS/NZS/J 60335-2-13; SI 900 Part 2.13;
IEC/EN/AS/NZS/J 60335-2-14; SI 900 Part 2.14;
IEC/EN/AS/NZS 60335-2-15; SI 900 Part 2.15;
IEC/EN/AS/NZS 60335-2-16; SI 900 Part 2.16;
IEC/EN/AS/NZS 60335-2-17; SI 900 Part 2.17;
IEC/EN/AS/NZS 60335-2-21;
IEC/EN/AS/NZS 60335-2-23; SI 900 Part 2.23;
IEC/EN/UL/AS/NZS 60335-2-24; SI 900 Part 2.24;
IEC/EN/AS/NZS 60335-2-25 SI 900 Part 2.25;
IEC/EN/AS/NZS/J 60335-2-27; SI 900 Part 2.27;
IEC/EN/AS/NZS 60335-2-28; SI 900 Part 2.28;
IEC/EN/AS/NZS 60335-2-29; SI 900 Part 2.29;
IEC/EN/AS/NZS 60335-2-30; SI 900 Part 2.30;
IEC/EN/AS/NZS 60335-2-31; SI 900 Part 2.31;
IEC/EN/AS/NZS 60335-2-32; SI 900 Part 2.32;
IEC/EN/AS/NZS 60335-2-35; SI 900 Part 2.35;
IEC/EN/UL/AS/NZS 60335-2-40; SI 994 Part-1, -3;
IEC/EN/AS/NZS 60335-2-41;
IEC/EN/AS/NZS 60335-2-45; SI 900 Part 2.45;
IEC/EN/AS/NZS 60335-2-52; SI 900 Part 2.52;
IEC/EN/AS/NZS 60335-2-55; SI 900 Part 2.55;
IEC/EN/AS/NZS 60335-2-59; SI 900 Part 2.59;
IEC/EN/AS/NZS 60335-2-60; SI 900 Part 2.60;
IEC/EN/AS/NZS 60335-2-65;
IEC/EN/AS/NZS 60335-2-66; SI 900 Part 2.66;
IEC/EN/AS/NZS 60335-2-74; SI 900 Part 2.74;

Test Technology:

Product Safety (cont.)
Household and Similar Electrical Apparatus
(cont.)

Test Method(s) ¹:

IEC/EN/AS/NZS 60335-2-75; SI 900 Part 2.75;
IEC/EN/AS/NZS 60335-2-76; SI 900 Part 2.76;
IEC/EN/AS/NZS 60335-2-77; SI 900 Part 2.77;
IEC/EN/AS/NZS 60335-2-80; SI 900 Part 2.80;
IEC/EN/AS/NZS 60335-2-81; SI 900 Part 2.81;
IEC/EN/AS/NZS 60335-2-82; SI 900 Part 2.82;
IEC/EN/AS/NZS 60335-2-84; SI 900 Part 2.84;
IEC/EN/AS/NZS 60335-2-85; SI 900 Part 2.85;
IEC/EN/AS/NZS 60335-2-89; SI 900 Part 2.89;
IEC/EN/AS/NZS 60335-2-90;
IEC/EN/AS/NZS 60335-2-91; SI 900 Part 2.91;
IEC/EN/AS/NZS 60335-2-95; SI 900 Part 2.95;
IEC/EN/AS/NZS 60335-2-96; SI 900 Part 2.96;
IEC/EN/AS/NZS 60335-2-97; SI 900 Part 2.97;
IEC/EN/AS/NZS 60335-2-98; SI 900 Part 2.98;
IEC/EN/AS/NZS 60335-2-109;
IEC/EN/AS/NZS 60335-2-113;
IEC/EN/AS/NZS 60335-2-115;
IEC/EN 60364-7-702 (Electrical Installation Protection);
EN 50564:2011;
IS 900 Part 2.15;
AS/NZS 3350.1; AS/NZS 3350.2.40, .2.29;
UL 751 (Vending Machines);
UL 2021 (Room Heaters);
UL 244A (Standard for Solid-State Controls for Appliances);
UL 197 (Commercial Electric Cooking Appliances);
UL 1026 (Household Electric Cooking and Food Serving
Appliances);
IEC/EN/SI 62301; CSA C62301;
UL 325 (T-Tris); UL 916 (T-Tris);
UL 1023; UL 639; UL 1012; UL 1081; UL 294;
CAN/CSA-C22.2 No. 128 (Vending Machines);
CAN/CSA-C22.2 No. 46 (Electric Air-Heaters);
CAN/CSA-C22.2 No. 218.2;
CAN/CSA-E60335-2-14-05 (R2018);
EN/IEC 60436; EN/IEC 50242;
EN 61121; IEC 61121;
EN/IEC 60456;
EN/IEC 50304; EN/IEC 60350;
ISO/SI 5151; ISO/SI 13253;
ISO/SI 3741;
EN/IEC 60745-1; SI 60745 Part 1;
IEC/EN/UL/CAN 62841-1, 2-2, 2-4, 2-5, 2-11, 2-14;
SI 62841 Part 1, 2.2, 2.4, 2.5, 2.11, 2.14;
IEC/EN 60884-1; SI 32; ASTM F2208-08

Industrial Machinery, Industrial Control
Equipment

IEC/EN 60204-1²; SI 60204 Part 1; IEC/EN 61508;
EN 983²; EN 982²; EN 775²;
EN 4413; EN 4414;
EN 614-1²; EN 614-2²; EN 292-2²;
EN ISO 12100-1²; EN ISO 12100-2²;
EN ISO 13849-1;
EN ISO 13849-2;
IEC/EN 62061;



Test Technology:**Test Method(s) ¹:****Product Safety (cont.)**

Industrial Machinery, Industrial Control
Equipment (cont.)

IEC/EN 50156;
IEC/EN 61511;
EN 746-2; SI 74600 Part 2; EN 676; SI 67600
(Safety Related Parts of Control Systems);
EN ISO 14122-2 (Work Platforms, Walkways, etc.);
EN ISO 14122-3 (Stairs, Ladders, etc.);
IEC 62280;
IEC/EN/AS/NZS 61558-1; SI 61558 Part 1;
IEC/EN/AS/NZS 61558-2-1, 2-2, 2-4, 2-5, 2-6, 2-7,
2-9, 2-12, 2-13, 2-16, 2-19, 2-20, 2-23;
SI 61558 Parts 1, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.9, 2.12, 2.13,
2.16, 2.19, 2.20, 2.23;
EN/IEC 15194, SI 15194;
UL 508³; UL 508A; UL 508B; UL 508C; UL 507; UL 174;
UL 2200; UL/EN/IEC/SI 60730-1;
IEC/UL/EN/SI 60730-2.7,-2.9,-2.11,-2.15;
IEC/EN 60204-32;
(Machinery, Electrical, and Hoisting Machines);
BS EN 13157 (Hand Powered Lifting Equipment);
BS EN ISO 13850 (Emergency Stops);
BS EN ISO 14121-1 (Machinery Risks);
EN/IEC 61439-1, -2, -3, -4,-5; SI 61439 Parts 1, 2, 3, 4, 5;
CAN/CSA-C22.2 No. 107; CAN/CSA-C22.2 No. 108;
EN 1010-1, -2; ANSI B65.1; UL 506; UL 541;
CAN/CSA C22.2 No. 14; CAN/CSA C22.2 No. 250;
UL 61010-2-201; UL 2011;
EN 50155; EN ISO 10218-2;
IEC/EN/SI 60670-1, -21, -22, -24; SI 145 Part 24;
IEC/EN/SI 60669-1, -2-1, -2-5;
IEC/EN/SI 60669-1, -2-1, -2-5;
UL 94; IEC 62208; SI 62208; IEC 61537; SI 61537

Hazardous Locations

EN/IEC/UL/CSA/SI 60079-0, -1, -2, -5, -7,
-11, -15, -16, -17, -18, -25, -26, -28, -31, -46;
ISO/IEC/EN 80079-34; IS 6200 -1, -2, -3;
ISO/IEC/EN 80079-36; ISO/IEC/EN 80079-37; UL 913;
CAN/CSA C22.2 No. 157; UL 1203, UL1238

SEMI Conductor Manufacturing Equipment

SEMI S2²; IEC/EN 60204-33;
SEMI S8²; SEMI S9²; SEMI S14²;
SEMI S10²; SEMI S22²; SEMI F47; SEMI S28

Audio, Video

*(Excluding high current arcing ignition test,
hot flaming oil test, acoustic pressure, and
ionizing radiation)*

IEC 60065; EN 60065; UL 60065; SI 60065

Lamp Control, Lighting

IEC/EN/SI 62471; IEC TR 62778; SI 62778;
IEC/EN 60598-1; SI 20 Part 1;
IEC/EN 60598-2-1, -2-2, -2-3, -2-4, -2-5, -2-6, -2-7,-2-8, -2-
10, -2-11,-2-18, -2-20, -2-22, -2-23;
SI 20 Part 1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.10, 2.11, 2.18,
2.20, 2.22, 2.23;

Test Technology:**Test Method(s) ¹:**

Lamp Control, Lighting (cont.)

IEC/EN/AS/NZS 61347-1; SI 61347 Part 1;
IEC/EN/AS/NZS 61347-2-1, -2-2, -2-3, -2-7, -2-8, -2-9,
-2-12, -2-13;
SI 61347 Parts 1, 2.1, 2.2, 2.3, 2.7, 2.8, 2.9, 2.12, 2.13;
IEC/EN/SI 60968;
UL 1598, UL 1875; IEC/EN/SI 62560;
IEC/EN/SI 62384-1; IEC/EN/SI 62031;
IEC/EN/SI 62776; IEC 62034; UL 8800

Energy Efficiency

IEC/EN 62552-1,-2,-3; SI 62552 Parts 1, 2, 3; SI 5288;
EN 60034; IEC 60034; SI 60034 Parts 1, 2.1, 30, 31;
AS/NZS 4665.2 (MEPS), SI 4665 Parts 1, 2;
EN/IEC 62018, SI 62018;
EN/IEC 62087, SI 62087;
IEC 60350-1, -2; SI 60350-1, -2;
SI 5485

Electricity Metering Equipment (AC)

EN 50470-1, -3

Alarm System Performance Testing

Alarm Systems - Intrusion and Hold-Up
Systems (50131/130) and Alarm
Transmission Systems and Equipment
(50136)

EN 50131-1; EN 50131-2-2; EN50131-2-3;
EN 50131-2-4; EN 50131-2-5; EN 50131-2-6;
EN 50131-2-7; EN 50131-2-8; EN 50131-3;
EN 50131-4; EN 50131-5-3; EN 50131-6; EN50131-8;
EN 50130-4;
EN 50131-4; BS DD CLC/TS 50131-7;
EN 50131-5; EN 50131-6;
EN50130-5;
EN 50136-1-1; EN 50136-1-2; EN 50136-1-3;
EN 50136-1-5; EN 50136-2-1; EN 50136-2-2;
EN 50136-2-3

Telecommunications Testing

Analog Attachments for Connection to the
PSTN

Specification of Terminal Equipment Interconnected to the
Analog Public Telephone Network (TN);
Requirements for Type Approval No. 023/96
(March 1996) Ministry of Communications, IL

Digital Attachments for Connection to the
PSTN

Requirements for Type Approval No. 01/99
(Feb 1999) Ministry of Communications, IL;
EN 41003; UL 1459;
ITU-T K.21, ITU-T K.22, ITU-T K.23;
CSA C22.2 No. 225:1990;
ETSI TS 102.027 - Conformance Test
Specification for SIP;
ITU-T H323-Audiovisual and Multimedia Systems
Infrastructure of Audiovisual Services - Packet-Based
Multimedia Communications Systems

Test Technology:

Connection of TE to the TN

Radio Testing

(except DFS, SAR and HAC)

FCC

ISED

CE/EU

***Electromagnetic Compatibility
Emissions***

Conducted and Radiated

Test Method(s) ¹:

ANSI T1.315; ANSI T1.413;
TIA/EIA-IS-968 (Part 68); TIA/EIA-IS-883;
TIA/EIA-TSB-168;
TBR 4; TBR 3; TBR 12; TBR 13; TBR 21;
TBR38; CS-03 (Part I, II, V, VI, VIII);
AS/ACIF S002; AS/ACIF S003; AS/ACIF S004;
AS/ACIF S006; AS/ACIF S016; AS/ACIF S038;
AS/ACIF S040;
HKCA 2014; HKCA 2015; HKCA 2021;
HKCA 2026; HKCA 2027;
IDA TS ISDN PRA; ITU-T Rec.Q.553

CFR 47, FCC Parts 15 Subparts B/C/E/F/H
(using ANSI C63.4, ANSI C63.10);
CFR 47, FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80,
87, 90, 95, 96, 97, 101 (using TIA/EIA 603-E;
TIA-102.CAAA-E; ANSI C63.26)

RSS-GEN; RSS-102 measurement (RF Exp); RSS-119;
RSS-123; RSS-125; RSS-131; RSS-132; RSS-182; RSS-192;
RSS-195; RSS 197; RSS-210; RSS-247; RSS-248; RSS-310

ETSI EN 300 113; ETSI EN 300 328; ETSI EN 302 208;
ETSI EN 300 330; ETSI EN 300 440; ETSI EN 303 413;
EN 300 113-1, -2; EN 300 220-1,-2,-3,-4;
EN 300 330-1, -2; EN 300 339; EN 300 385;
EN 300 440-1, -2; EN 300 609-4;
EN 301 390; EN 301 502; EN 301 511;
EN 301 893; EN 301-908; EN 302 195-1;
EN 301 195-2; EN 302 502; EN 302 065-1, -2;
ETSI EN 302 066; AS/NZS 4268

CFR 47, FCC Parts 15 Subparts B (using ANSI C63.4);
CFR 47, FCC Part 18 (using FCC MP5:1986);
CISPR 11²; KN 11; SI 961 Part 5.1;
SI 961 Part 11; CISPR-13; CISPR-15;
CISPR 14-1; SI 961 Part 1.1, 14.2; CISPR 22;
EN 55011²; CNS 13803; EN 55013; EN/J 55014-1;
CNS 13783-1; EN 55015; CNS 14115;
EN 55022; CNS 13438;
KN 22; EN 50091-2; EN 55103-1;
EN 62040-2; VCCI V3; CSA C108.8:1983; ICES-003;
AS/NZS CISPR 11; AS/NZS CISPR 14;
AS/NZS CISPR 22; SI 961, Parts 1, 5, and 6.1;
SI 961 Part 48.1; SI 961 Part 48.7; SI 961 Part 48.24;
EN 55032; CISPR 32; SI 961 Part 32; KN 32;
AS/NZS CISPR 32; CNS 15936;
CSA CISPR 32; EN 50270;
EN 12015, SI 961 Part 7.1;
IEC/EN/SI 62233; IEC/EN 62311

Test Technology:

Disturbances Power
using Absorbing Clamp
(30 to 300) MHz

Current Harmonics

Flicker and Fluctuations –
EUT up to 4kVA

Immunity

Electrostatic Discharge
- Air Discharge to 25 kV
- Contact to 9 kV

Radiated Immunity
- up to 10 V/m, (80Mhz to 6Ghz)
up to 28 V/m for spot frequencies
per IEC60601-1-2

Electrical Fast Transients/Bursts
- Mains Port to 4kV
- Signal/Control Port to 4kV

Surges
- Mains Port to 6kV
- Direct to 6kV

Conducted Immunity
- up to 10VRMS

Magnetic Field
- up to 100A/m

Voltage Dips, Short Interruptions and
Voltage Variations Immunity Tests –
EUT up to 4Kva

***Generic and Product Specific EMC
Standards***

Information Technology Equipment

Immunity for Residential, Commercial and
Light-Industrial Environments

Immunity for Industrial Environments

Test Method(s) ¹:

CISPR 13; CISPR 14; CISPR 14-1;
EN 55013; CNS 13439;
EN 55014-1; CNS 13783-1;
EN 61000-6-3;
AS/NZS CISPR 14; IS 961, Part 1

IEC 61000-3-2; EN 61000-3-2; KN 61000-3-2;
SI 961 Part 12.3

IEC 61000-3-3; EN 61000-3-3; KN 61000-3-3;
SI 961 Part 12.11;
EN 61000-3-11

IEC 61000-4-2²;
EN 61000-4-2²; KN 61000-4-2

IEC 61000-4-3;
EN 61000-4-3; KN 61000-4-3;
IEC 61000-4-20; EN 61000-4-20; KN 61000-4-20

IEC 61000-4-4²;
EN 61000-4-4²; KN 61000-4-4

IEC 61000-4-5²;
EN 61000-4-5; KN 61000-4-5

IEC 61000-4-6;
EN 61000-4-6; KN 61000-4-6

IEC 61000-4-8;
EN 61000-4-8

IEC 61000-4-11;
EN 61000-4-11

CISPR 24; EN 55024;
IEC/EN 60945; KN 24;
SI 961 Part 6.2; SI 961 Part 24;
CISPR 35; EN 55035; KN 35

IEC 61000-6-1²;
EN 61000-6-1²;
SI 961 Part 10.2;
IEC/EN 61000-4-20

IEC 61000-6-2; EN 61000-6-2;
SI 961 Part 8.2

Test Technology:**Test Method(s) ¹:**

Emission Standard for Residential,
Commercial and Light-Industrial
Environments

EN 61000-6-3;
IEC61000-4-20

Emission Standard for Industrial Environments

EN 61000-6-4

Alarm Systems

EN 50130-4;
SI 961 Part 9.2

Equipment for General Lighting Purposes

IEC/EN/SI 61547

Household Appliances, Electric Tools and
Similar Apparatus

EN 55014-2; CISPR 14-2;
SI 961 Part 1.2; SI 961 Part 14.2

Electrical Lighting and Similar Equipment

EN 55015; CISPR 15; CNS 14115;
SI 961 Part 15

Uninterruptible Power Systems (UPS)

EN 62040-2

Sound and Television Broadcast Receivers
and Associated Equipment

EN 55020; CISPR 20;
SI 961 Part 20

Audio, Video, Audio-Visual and
Entertainment Lighting Control Apparatus for
Professional Use

EN 55103-2

Electrical Equipment for Measurement,
Control, and Laboratory Use

EN 61326-1; IEC 61326-1

Railway Application EMC –
Rolling Stock Apparatus

EN 50121-3-2;
EN 55016-2-1

***Generic and Product Specific EMC
Standards***

Electromagnetic Compatibility and Radio
Spectrum Matters (ERM);
Telecommunication Network Equipment;
Electromagnetic Compatibility (EMC)
Requirements

EN 300 386

Electromagnetic Compatibility and Radio
Spectrum Matters (ERM); Electromagnetic
Compatibility (EMC) Standard for Radio
Equipment and Services

ETSI/EN/KN 301 489-1, -3, -17, -19, -33, -52;
SI 961 Part 48.1;
SI 961 Part 48.7;
SI 961 Part 48.24

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

EN/IEC 60601-1-2; SI 60601 Part 1.2

Medical Device

AIM 7351731

Environmental, Health, and Safety Guideline
for Semiconductor Manufacturing Equipment

SEMI E33;
SEMI S2-0706, Section 25,
Non-Ionizing Radiation

Test Technology:

Semiconductor Processing Equipment
Voltage SAG Immunity

Military and Airborne Equipment

Automotive EMC

NEBS

Electrostatic Discharge (ESD)
Emission
Immunity
Power Cross
Lightning
DC Potential
Electrical Safety
Corrosion
Bonding & Grounding
Temperature/ Humidity
Equipment Handling

Test Method(s) ¹:

SEMI F47

MIL-STD-461C, Methods RE01, RE02, CE01, CE03, CE06,
CE07, RS01, RS02, RS03, CS01, CS02, CS03, CS04, CS05,
CS06, CS07, CS09;
DEF STAN 59-411 Parts 1, 3, 4, 5;
MIL-STD-461D/E/F/G, Methods RE101, RE102,
RE103, CE101, CE102, CE106, CS101, CS103,
CS104, CS105, CS106, CS109, CS114, CS115,
CS116, RS101, RS103;
RAPAT 20300071034;
MIL-STD-704A/B/C/D/E/F;
MIL-STD-1275A/B/C/D/E;
MIL-STD-285; IEEE Std. 299;
MIL-STD-1399-300A, -300B;
MIL-STD-464 A/B/C;
RTCA/DO-160D/E/F/G;
AS/ACIF S042;
MIL-STD-188-125-1, Appendix A, Shielding Effectiveness;
HIK 7;
AIAA-S-121A;
SMC-S-008; SMC-T-008

SAE J1113-2; SAE J1113-4;
SAE J1113-11; SAE J1113-13; SAE J1113-42;
ISO 7637-2;
E/ECE/324; ECE R 10, Regulation No. 10;
SI 961 Part 3.1, .10;
EN 50498;
ISO 16750-1, -2, -4;
IEC/EN/SI 61980-1; IEC 61800-5-1;
IEC/EN 62040-1; SI 62040 Part1;
IEC/EN 61851-1; SI 61851 Part 1;
IEC/EN 61851-21; -22; -23; SI 61851 Part 21.1, 21.2, 23;
CISPR 25; EN 55025; SI 961 Part 25; KN 25; CNS 14500;
ISO 11452-1, -2, -3;
ISO 10605;
ISO 11452-2;
ISO 11452-4

GR-1089-CORE, Section 2
GR-1089-CORE, Section 3
GR-1089-CORE, Section 3
GR-1089-CORE, Section 4
GR-1089-CORE, Section 4
GR-1089-CORE, Section 6
GR-1089-CORE, Section 7
GR-1089-CORE, Section 8
GR-1089-CORE, Section 9
GR-63-CORE, Section 4.1
GR-63-CORE, Section 4.3

Test Technology:

Radio Testing

(except DFS, SAR and HAC)

FCC

ISED

CE/EU

Test Method(s) ¹:

CFR 47, FCC Parts 15 Subparts B/C/E/F/H
(using ANSI C63.4, ANSI C63.10)²;
CFR 47, FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80,
87, 90, 95, 96, 97, 101 (using TIA/EIA 603-E;
TIA-102.CAAA-E; ANSI C63.26);

RSS-GEN; RSS-102 measurement (RF Exp);
RSS-119; RSS-123; RSS-125; RSS-131;
RSS-132; RSS-182; RSS-192; RSS-195; RSS 197;
RSS-210; RSS-247; RSS-248; RSS-310

ETSI EN 300 113; ETSI EN 300 328; ETSI EN 302 208;
ETSI EN 300 330; ETSI EN 300 440; ETSI EN 303 413;
EN 300 113-1, -2; EN 300 220-1,-2,-3,-4;
EN 300 330-1, -2; EN 300 339; EN 300 385;
EN 300 440-1, -2; EN 300 609-4;
EN 301 390; EN 301 502; EN 301 511;
EN 301 893; EN 301-908; EN 302 195-1;
EN 301 195-2; EN 302 502; EN 302 065-1, -2;
AS/NZS 4268

Electromagnetic Compatibility

Emissions

Conducted and Radiated

CFR 47, FCC Parts 15 Subparts B (using ANSI C63.4);
CFR 47, FCC Part 18 (using FCC MP5:1986);
CISPR 11²; KN 11; SI 961 Part 5.1;
SI 961 Part 11;
CISPR-13; CISPR-15;
CISPR 14-1; SI 961 Part 1.1, 14.2;
CISPR 22;
EN 55011²; CNS 13803;
EN 55013; CNS 13439;
EN/J 55014-1; CNS 13783-1;
EN 55015; CNS 14115;
EN 55022; CNS 13438;
KN 22; EN 50091-2; EN 55103-1;
EN 62040-2; VCCI V3;
CSA C108.8:1983; ICES-003;
AS/NZS CISPR 11; AS/NZS CISPR 14;
AS/NZS CISPR 22;
SI 961, Parts 1, 5, and 6.1;
SI 961 Part 48.1; SI 961 Part 48.7; SI 961 Part 48.24;
EN 55032; CISPR 32; SI 961 Part 32; KN 32;
AS/NZS CISPR 32; CNS 15936; EN 50270;
EN 12015, SI 961 Part 7.1
IEC/EN/SI 62233; IEC/EN 62311

Test Technology:**Test Method(s) ¹:*****Generic and Product Specific EMC Standards
Radiated Emissions Only***

Emission Standard for Residential, Commercial
and Light-Industrial Environments

EN 61000-6-3

Emission Standard for Industrial Environments

EN 61000-6-4²

Electrical Lighting and Similar Equipment

EN 55015; CISPR 15; CNS 14115; SI 961 Part 15

Uninterruptible Power Systems (UPS)

EN 62040-2

Sound and Television Broadcast Receivers and
Associated Equipment

EN 55020; CISPR 20; SI 961 Part 20

Audio, Video, Audio-Visual and Entertainment
Lighting Control Apparatus for Professional Use

EN 55103-2

Electrical Equipment for Measurement, Control,
and Laboratory Use

EN 61326

Railway Application EMC –
Rolling Stock Apparatus

EN 50121-3-2

Electromagnetic Compatibility and Radio
Spectrum Matters (ERM); Telecommunication
Network Equipment; Electromagnetic
Compatibility (EMC) Requirements

EN 300 386

Electromagnetic Compatibility and Radio
Spectrum Matters (ERM); Electromagnetic
Compatibility (EMC) Standard for Radio
Equipment and Services

EN 301 489; KN 301 489;
SI 961 Part 48.1; SI 961 Part 48.7;
SI 961 Part 48.24

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

IEC/EN 60601-1-2; SI 60601 Part 1.2

Military and Airborne Equipment

MIL-STD-461C/D/E/F

¹ 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.

² These testing activities can also be performed in the field.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1³

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC MP-5:1986	40000
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013; ANSI C63.10:2020	40000
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013; ANSI C63.10:2020	40000
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013; ANSI C63.10:2020	40000
<u>White Space Device Intentional Radiators</u> Part 15H	ANSI C63.10:2013; ANSI C63.10:2020	40000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, ANSI C63.26:2015	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, ANSI C63.26:2015	40000
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u> Part 96	ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, ANSI C63.26:2015	40000
<u>Maritime and Aviation Radio Services</u> Parts 80 and 87	ANSI/TIA-603-E, ANSI C63.26:2015	40000
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, ANSI C63.26:2015	40000
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E,	40000

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
	ANSI/TIA-102.CAAA-E, ANSI C63.26:2015	
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific Signal Boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26:2015	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.

Testing Activities performed under the scope of the U.S FDA ASCA Pilot Program Specifications: *Basic Safety and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems, and Laboratory Medical Equipment – Standards Specific Information for the Accreditation Scheme for Conformity Assessment (ASCA) Pilot Program* published on September 25th, 2020, and in accordance with all requirements of A2LA R256 *Specific Requirements- FDA ASCA Program*⁴

<u>Standards</u>	<u>ASCA Doc Number</u>
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012 C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021] (Consolidated Text) (excluding cathode ray tubes (clause 9.5.2), pressure vessels (clause 9.7), natural latex rubber aging (8.8.4.2), hand-transmitted vibration (clause 9.6.3), flexibility (clause L.3.2), adherence (clause L.3.2), X-radiation (clause 10.1), sterilization (clause 11.6.7), biocompatibility testing (clause 11.7), ignition of flammable anaesthetic mixtures (clause 11.4, Annex G))	19-46
IEC 60601-1 Edition 3.2 2020-08 CONSOLIDATED VERSION	19-49
IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION;	19-38
ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021];	19-47
IEC 60601-1-12 Edition 1.1 2020-07 CONSOLIDATED VERSION;	19-39
IEC 60601-1-2 Edition 4.1 2020-09 CONSOLIDATED VERSION;	16-36
IEC 60601-1-3 Edition 2.2 2021-01 CONSOLIDATED VERSION;	12-336
IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION;	5-132
IEC 60601-1-8 Edition 2.1 2012-11;	
IEC 60601-1-8 Edition 2.2 2020-07 CONSOLIDATED VERSION;	
IEC 60601-2-2 Edition 6.0 2017-03;	
IEC 60601-2-5: Edition 3.0 2009-07;	
IEC 60601-2-10 Edition 2.1 2016-04;	
ISO 80601-2-12 First edition 2011-04-15;	
ISO 80601-2-12 Second edition 2020-02;	
IEC 60601-2-18: Edition 3.0 2009-08;	
IEC 60601-2-22 Edition 3.1 2012-10;	
IEC 60601-2-25 Edition 2.0 2011-10;	
IEC 60601-2-27 Edition 3.0 2011-03;	
IEC 60601-2-28 Edition 2.0 2010-03;	

IEC 60601-2-28 Edition 3.0 2017-06;
 IEC 80601-2-30 Edition 1.1 2013-07;
 IEC 80601-2-30 Edition 2.0 2018-03;
 IEC 60601-2-33 Ed. 3.2 b:2015;
 IEC 60601-2-34 Edition 3.0 2011-05;
 IEC 80601-2-35 Edition 2.1 2016-04;
 IEC 60601-2-36 Edition 2.0 2014-04;
 IEC 60601-2-37 Edition 2.1 2015;
 IEC 60601-2-43 Edition 2.1 2017-05 CONSOLIDATED VERSION
 IEC 60601-2-43 Edition 2.2 2019-10 CONSOLIDATED VERSION;
 IEC 60601-2-44 Edition 3.2: 2016;
 IEC 60601-2-47 Edition 2.0 2012-02;
 IEC 60601-2-52 Edition 1.0 2009-12;
 IEC 60601-2-54 Edition 1.2 2018-06 CONSOLIDATED VERSION;
 ISO 80601-2-56 Second edition 2017-03;
 IEC 60601-2-57 Edition 1.0 2011-01;
 IEC 80601-2-60 Edition 2.0 2019-06;
 ISO 80601-2-61 Second edition 2017-12 (Corrected version 2018-02);
 IEC 60601-2-62 Edition 1.0 2013-07;
 IEC 60601-2-64 Edition 1.0 2014-09;
 IEC 60601-2-68 Edition 1.0 2014-09;
 ISO 80601-2-70 First Edition 2015-01-15;
 ISO 80601-2-72 First edition 2015-04-1;
 IEC 80601-2-77 Edition 1.0 2019-07;
 ISO 80601-2-79 First edition 2018-07;
 ISO 80601-2-80 First edition 2018-07;
 ISO 80601-2-87 First edition 2021-04;
 IEC 61010-1 Edition 3.1 2017-01 (*excluding acoustic pressure (clause 12.5.1),
 ionizing radiation test methods (clause 12.2))*)

Note - Excluded subclauses for ANSI AAMI ES60601-1 and IEC/UL 61010-1
 also impact other collaterals and particulars within the ASCA Scope of
 Accreditation

⁴ These methods have been assessed by A2LA according to A2LA's FDA ASCA Program requirements. Accreditation by A2LA does not imply FDA ASCA-Accreditation. All ASCA-accreditation decisions for testing laboratory applications are made solely by the FDA, a list of approved laboratories can be found at FDA.gov.



Accredited Laboratory

A2LA has accredited

I.T.L. PRODUCT TESTING LTD

Modiin, Israel

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 laboratory also meets A2LA R256 - Specific Requirements - FDA ASCA Program. 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 28th day of March 2024.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1152.01
Valid to September 30, 2025

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