



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL (EMC)

Valid To: September 30, 2023

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 Program<sup>2</sup> requirements), accreditation is granted to this laboratory at the location listed above, *as well as the satellite laboratory location listed below*, to perform the following product safety, electromagnetic compatibility, and telecommunications testing:

**Test Technology:**

**Test Method(s)**<sup>3, 4:</sup>

***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 part 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;  
IEEE 1613; UL 1310

Laser and LEDs and UV

IEC 60825-1, -2, -9; EN 60825-1, -2, -9;  
SI 60825 Part1, Part2;  
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 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)<sup>3, 4:</sup>**

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 60601-1-11 Edition 2.0 2015-01;  
IEC 60601-1-11 Edition 2.1 2020-07;  
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;  
IEC 60601-2-25 Edition 2.0 2011-10;

**Test Technology:**

***Product Safety (cont.)***  
Medical (cont.)

**Test Method(s) <sup>3, 4:</sup>**

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 2.2 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, -55, -56, -60, -61, -67,  
-69, -70, -72, -74, -79, -80, -85, -87, 90  
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;  
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)  
(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;  
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

**Test Technology:**

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) <sup>3, 4:</sup>**

IEC/EN/UL/SI 61010-1 <sup>4</sup>;  
IEC 61010-2-81  
(Semi-/Automatic Lab Sample Analyzers);  
EN 61010-1 <sup>4</sup>;  
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 3101-1 <sup>4</sup>; UL 61010A-1<sup>4</sup>; UL 61010B-1 <sup>4</sup>;  
UL 61010C-1 <sup>4</sup>; UL 3111-1 <sup>4</sup>; UL 61010-1 <sup>4</sup>;  
CAN/CSA-22.2 No. 61010-1; UL 61010-2-201;  
ISA-82.02.1; AS 61010-1 <sup>4</sup>; SI 61010 part 1 <sup>4</sup>;  
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  
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;

**Test Technology:**

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

**Test Method(s)<sup>3, 4:</sup>**

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 62841-1, 2-2, 2-4, 2-5, 2-11, 2-14; SI 62841 part1,  
2.2, 2.4, 2.5, 2.11, 2.14;  
IEC/EN 60884-1; SI 32

Industrial Machinery, Industrial Control  
Equipment

IEC/EN 60204-1<sup>4</sup>; SI 60204 part 1; IEC/EN 61508;  
EN 983<sup>4</sup>; EN 982<sup>4</sup>; EN 775<sup>4</sup>;  
EN 4413; EN 4414;  
EN 614-1<sup>4</sup>; EN 614-2<sup>4</sup>; EN 292-2<sup>4</sup>;  
EN ISO 12100-1<sup>4</sup>; EN ISO 12100-2<sup>4</sup>;  
EN ISO 13849-1;  
EN ISO 13849-2;  
IEC/EN 62061;  
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.);

**Test Technology:**

**Product Safety (cont.)**

Industrial Machinery, Industrial Control Equipment (cont.)

**Test Method(s)<sup>3,4</sup>:**

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 508<sup>4</sup>, 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;  
IEC/EN/SI 60669-1, -2-1, -2-5;  
IEC/EN/SI 60669-1, -2-1, -2-5;  
UL 94; IEC 62208; SI 62208

Hazardous Locations

EN/IEC/UL/CSA/SI 60079-0, -1, -2, -5, -7,  
-11, -15, -16, -18, -25, -26, -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 S2<sup>4</sup>; IEC/EN 60204-33  
SEMI S8<sup>4</sup>; SEMI S9<sup>4</sup>; SEMI S14<sup>4</sup>;  
SEMI S10<sup>4</sup>; SEMI S22<sup>4</sup>; 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, Part 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;  
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

**Test Technology:**

Energy Efficiency

Electricity Metering Equipment (AC)

***Alarm System Performance Testing***

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

***Telecommunications Testing***

Analog Attachments for Connection to the PSTN

Digital Attachments for Connection to the PSTN

Connection of TE to the TN

**Test Method(s)<sup>3,4:</sup>**

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

EN 50470-1, -3

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

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

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

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

**Test Technology:**

***Radio Testing***

*(except DFS, SAR and HAC)*

FCC

ISED

CE/EU

***Electromagnetic Compatibility***

*Emissions*

Conducted and Radiated

Disturbances Power  
using Absorbing Clamp  
(30 to 300) MHz

**Test Method(s)<sup>3,4:</sup>**

CFR 47, FCC Parts 15 Subparts B/C/E/F/H  
(using ANSI C63.4, ANSI C63.10, KDB 789033)<sup>4</sup>;  
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);  
KDB 789033; KDB 971168; KDB 653005;  
KDB 935210 D03, D04, D05; KDB 971168

RSS-GEN; RSS-102 measurement (RF Exp and NS);  
SPR002; 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 11<sup>4</sup>; 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 55011<sup>4</sup>; 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;  
EN 50270;  
EN 12015, SI 961 Part 7.1  
IEC/EN/SI 62233; IEC/EN 62311;

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

**Test Technology:****Test Method(s) <sup>3, 4</sup>:**

Current Harmonics

IEC 61000-3-2; EN 61000-3-2; KN 61000-3-2;  
SI 961 Part 12.3Flicker and Fluctuations –  
EUT up to 4kVAIEC 61000-3-3; EN 61000-3-3; KN 61000-3-3;  
SI 961 Part 12.11;  
EN 61000-3-11***Immunity***Electrostatic Discharge  
- Air Discharge to 25 kV  
- Contact to 9 kVIEC 61000-4-2 <sup>4</sup>;  
EN 61000-4-2 <sup>4</sup>; KN 61000-4-2Radiated Immunity  
- up to 10 V/m, (80Mhz to 6Ghz)  
up to 28 V/m for spot frequencies  
per IEC60601-1-2IEC 61000-4-3;  
EN 61000-4-3; KN 61000-4-3;  
IEC 61000-4-20, EN 61000-4-20; KN 61000-4-20Electrical Fast Transients/Bursts  
- Mains Port to 4kV  
- Signal/Control Port to 4kVIEC 61000-4-4 <sup>4</sup>;  
EN 61000-4-4 <sup>4</sup>; KN 61000-4-4Surges  
- Mains Port to 6kV  
- Direct to 6kVIEC 61000-4-5 <sup>4</sup>;  
EN 61000-4-5; KN 61000-4-5Conducted Immunity  
- up to 10VRMSIEC 61000-4-6;  
EN 61000-4-6; KN 61000-4-6Magnetic Field  
- up to 100A/mIEC 61000-4-8;  
EN 61000-4-8Voltage Dips, Short Interruptions and  
Voltage Variations Immunity Tests –  
EUT up to 4KvaIEC 61000-4-11;  
EN 61000-4-11***Generic and Product Specific EMC  
Standards***

Information Technology Equipment

CISPR 24; EN 55024;  
IEC/EN 60945  
KN 24;  
SI 961 Part 6.2; SI 961 Part 24;  
CISPR 35; EN 55035; KN35Immunity for Residential, Commercial and  
Light-Industrial EnvironmentsIEC 61000-6-1 <sup>4</sup>;  
EN 61000-6-1 <sup>4</sup>;  
SI 961 Part 10.2  
IEC/EN 61000-4-20

Immunity for Industrial Environments

IEC 61000-6-2;  
EN 61000-6-2;  
SI 961 Part 8.2Emission Standard for Residential,  
Commercial and Light-Industrial  
EnvironmentsEN 61000-6-3  
IEC61000-4-20

**Test Technology:****Test Method(s)<sup>3, 4:</sup>**

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	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	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
Semiconductor Processing Equipment Voltage SAG Immunity	SEMI F47

**Test Technology:**

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

***Environmental Exposure***

Temperature

**Test Method(s)<sup>3,4:</sup>**

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

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 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

MIL-STD-810, Method 501, 502, 503;  
UN-DO-160 Section 5; MIL-PRF-28800F;  
ETSI/EN 300019-1-0, -1, -2, -3, -5, -6, -7, -8;  
IEC/EN 60068-2-1, -2, -14, -30;  
ISO 16750-4

**Test Technology:****Test Method(s)<sup>3,4</sup>:**

Temperature  
(-40 to 177) °C, Transition up to 15 °C / min

MIL-STD-202, Method 108A, EN/IEC 60068-2-14

Humidity  
(10 to 90) °C, (20 to 95) %RH

MIL-STD-810, Method 507;  
MIL-STD-202, Methods 103B and 106G;  
UN-DO-160 Section 6.0; MIL-PRF-28800F;  
ETSI/EN\_300019-1-0, -1, -2, -3, -5, -6, -7, -8, -30;  
ISO 9022-14-1994

Dust Test

MIL-STD-810, Method 510;  
UN-DO-160 Section 12.0; MIL-PRF-28800F;  
ETSI/EN\_300019-1-1, -2, -3, -5, -6, -8

Ingress, Impact Protection

EN/IEC/AS/NZS/SI 60529; IEC/EN 62262;  
IEC/EN 60068-2-18, 75;  
MIL STD 810 – Test Method 512, 506;  
RTCA DO-160, Section 11

Drop Tests (Free Fall)

MIL-STD-810, Method 516;  
UN-DO-160 Section 7.0 & 8.0; MIL-PRF-28800F;  
IEC/EN 60068-2-31, -32; IEC/EN 60601-1-11;  
ETSI/EN\_300019-1-2, -5, -6;  
ASTM C635 SI 5103 part1, 4

Vibration

MIL-STD-810, Method 514;  
UN-DO-160 Section 7.0, 8.0; MIL-PRF-28800F;  
ETSI/EN\_300019-1-2, -3, -4, -5, -6, -8;  
IEC/EN 60068-2-6, -27, 64; IEC 60601-1-11;  
ISO 16750-3

Salt Fog

MIL-STD-810, Method 509;  
UN-DO-160 Section 14.0; MIL-PRF-28800F;  
ETSI/EN\_300019-1-3; IEC/EN 60068-2-11, 52;  
ISO 16750-5

Freeze / Thaw / Icing

MIL-STD-810, Method 524, 521 UN-DO-160 Section 24;  
ETSI/EN\_300019-1-3, -6, -7

National Standards (comprising test methods above)

JSS 55555, STANAG 4370

Pressure  
UV

IEC 60601-2-11 (Clause 4.2.2), EN/IEC 60068-2-13;  
IEC 60068-2-5, MIL STD 810. Method 505

Contamination By Fluids

MIL-STD-810, Method 504

<sup>1</sup>This accreditation covers testing performed at the main laboratory listed above, and at the satellite laboratory indicated below:

4840 Winchester Blvd., Suites 5 and 6  
Frederick, MD 21703  
United States

**Test Technology:**

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)*

**Test Method(s) <sup>3</sup>:**

IEC/EN/UL/CSA/SI 62368-1;  
AS/NZS 62368.1

**Test Technology:**

**Test Method(s) <sup>3</sup>:**

***Radio Testing***

*(except DFS, SAR and HAC)*  
FCC

CFR 47, FCC Parts 15 Subparts B/C/E/F/H  
(using ANSI C63.4, ANSI C63.10, KDB 789033) <sup>4</sup>;  
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);  
KDB 789033; KDB 971168; KDB 653005;  
KDB 935210 D03, D04, D05; KDB 971168

ISED

RSS-GEN; RSS-102 measurement (RF Exp and NS);  
SPR002; 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

CE/EU

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 11<sup>4</sup>; 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 55011<sup>4</sup>; 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) <sup>3</sup>:**

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

Emission Standard for Residential, Commercial and Light-Industrial Environments

EN 61000-6-3

Emission Standard for Industrial Environments

EN 61000-6-4 <sup>4</sup>

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-461D/E/F, Methods RE103

Automotive EMC

CISPR 12

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<sup>7</sup>:

**Rule Subpart / Technology:**

**Test Methods:**

**Maximum Frequency (MHz)**

**Unintentional Radiators (FCC Part 15, Subpart B)**

ANSI C63.4:2014

40000

**Industrial, Scientific, and Medical Equipment (FCC Part 18)**

FCC MP-5:1986

40000

- Consumer ISM equipment

<b><u>Rule Subpart / Technology:</u></b>	<b><u>Test Methods:</u></b>	<b><u>Maximum Frequency (MHz)</u></b>
<b>Intentional Radiators (FCC Part 15 Subpart C)</b>	ANSI C63.10:2013	40000
<b>U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)</b>	ANSI C63.10:2013	40000
<ul style="list-style-type: none"> <li>• Unlicensed National Information Infrastructure Devices</li> <li>• (U-NII without DFS)</li> </ul>	KDB 789033	
<b>UWB Intentional Radiators (FCC Part 15, Subpart F)</b>	ANSI C63.10:2013	40000
<ul style="list-style-type: none"> <li>• Ultra-wideband Operation</li> </ul>		
<b>White Space Device Intentional Radiators (FCC Part 15, Subpart H)</b>	ANSI C63.10:2013	40000
<ul style="list-style-type: none"> <li>• White Space Devices</li> </ul>		
<b>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</b>	ANSI/TIA-603-E-2016;	40000
<ul style="list-style-type: none"> <li>• Part 22 (Cellular)</li> <li>• Part 24</li> <li>• Part 25 (below 3 GHz)</li> <li>• Part 27</li> </ul>	ANSI/TIA-102.CAAA-E-2016; ANSI C63.26-2015 KDB 9711682	
<b>General Mobile Radio Services Licensed Radio Service Equipment</b>	ANSI/TIA-603-E-2016;	40000
<ul style="list-style-type: none"> <li>• Part 22 (non-cellular)</li> <li>• Part 90 (below 3 GHz)</li> <li>• Part 95</li> <li>• Part 97 (below 3 GHz)</li> <li>• Part 101 (below 3 GHz)</li> </ul>	ANSI/TIA-102.CAAA-E-2016; ANSI C63.26-2015	
<b>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</b>	ANSI/TIA-603-E-2016;	40000
<ul style="list-style-type: none"> <li>• Part 96</li> </ul>	ANSI/TIA-102.CAAA-E-2016; ANSI C63.26-2015 KDB Publication 971168 KDB Publication 940660	
<b>Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment)</b>	ANSI/TIA-603-E-2016 (2010);	40000
<ul style="list-style-type: none"> <li>• Part 80</li> <li>• Part 87</li> </ul>	ANSI C63.26-2015	
<b>Microwave and Millimeter Wave Bands Radio Services (FCC Licensed Radio Service Equipment)</b>	ANSI/TIA-603-E-2016;	40000
<ul style="list-style-type: none"> <li>• Part 25</li> <li>• Part 30</li> <li>• Part 74</li> <li>• Part 90 (above 3 GHz)</li> <li>• Part 95 ((above 3 GHz)</li> <li>• Part 97 (above 3 GHz)</li> <li>• Part 101</li> </ul>	ANSI/TIA-102.CAAA-E-2016; ANSI C63.26-2015	

<u>Rule Subpart / Technology:</u>	<u>Test Methods:</u>	<u>Maximum Frequency (MHz)</u>
<b>Broadcast Radio Services (FCC Licensed Radio Service Equipment)</b>	ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26-2015	40000
<ul style="list-style-type: none"> <li>• Part 73</li> <li>• Part 74 (below 3 GHz)</li> <li>•</li> </ul>		
<b>Signal Boosters (Part 20)</b>		40000
<ul style="list-style-type: none"> <li>• Wideband Consumer signal boosters</li> <li>• Provider-specific signal boosters</li> <li>• Industrial signal boosters</li> </ul>	ANSI C63.26:2015 KDB 935210 D03, D04, and D05	
Signal Boosters (Section 90.219)		

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*<sup>2</sup>

### Standards

ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 (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)*)

IEC 60601-1-11 Edition 2.0 2015-01;  
IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION;  
IEC 60601-1-12 Edition 1.0 2014-06;  
IEC 60601-1-12 Edition 1.1 2020-07 CONSOLIDATED VERSION;  
IEC 60601-1-2 Edition 4.0 2014-02;  
IEC 60601-1-2 Edition 4.1 2020-09 CONSOLIDATED VERSION;  
IEC 60601-1-3 Edition 2.2 2021-01 CONSOLIDATED VERSION;  
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 CONSOLIDATED VERSION;  
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;  
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

<sup>2</sup>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.

<sup>3</sup> 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.

<sup>4</sup> When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

<sup>6</sup> This laboratory and its satellite location, as listed in this scope, meet A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests, and offers both commercial and on-site services for the specified method(s) or standard(s).

<sup>7</sup> 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

## I.T.L. PRODUCT TESTING LTD

*Lod, 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 10<sup>th</sup> day of February 2022.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1152.01  
Valid to September 30, 2023

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