



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: August 31, 2027

Certificate Number: 4114.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the organization's compliance with A2LA's R256 Specific Requirements) accreditation is granted to this laboratory to perform the following electrical tests:

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3}:</u>
Emissions	
Radiated & Conducted (up to 40 GHz)	CISPR 11:2015+AMD1:2016+AMD2:2019; CISPR 14-1; CISPR 14-1:2016; CISPR 32
Power Line Harmonics	IEC 61000-3-2; IEC 61000-3-2:2005+AMD1:2008+AMD2:2009
Power Line Flicker	IEC 61000-3-3
Immunity	
Electrostatic Discharge	IEC 61000-4-2; IEC 61000-4-2:2008
Radiated Immunity	IEC 61000-4-3; IEC 61000-4-3:2006+AMD1:2007+AMD2:2010
Electrical Fast Transient/Burst	IEC 61000-4-4
Surge Immunity (except CCITT pulse)	IEC 61000-4-5:2014+AMD1:2017
Conducted Immunity	IEC 61000-4-6; IEC 61000-4-6:2013
Power Frequency Magnetic Field Immunity	IEC 61000-4-8
Power Quality Failure – Voltage, Dips, and Interruptions	IEC 61000-4-11; IEC 61000-4-11:2004+AMD1:2017
Radiated Fields in Close Proximity	IEC 61000-4-39 (<i>Excluding 5.5, 6.2, 7.2, 8.6</i>)

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3:}</u>
<i>Automotive</i>	
Radiated and Conducted Emissions	CISPR 25
Electrostatic Discharge (ESD)	ISO 10605
Radiated Immunity - ALSE	ISO 11452-2
Radiated Immunity – Portable Transmitters	ISO 11452-9
Magnetic Field Immunity	ISO 11452-8 (<i>excluding Helmholtz coil method</i>)
Bulk Current Injection	ISO 11452-4
Electrical Disturbances from Conduction and Coupling (Electrical Transient Conduction on Supply Lines Only)	ISO 7637-2:2004; ISO 7637-2
Electrical Disturbances from Conduction and Coupling (Electrical Transient Transmission by Capacitive and Inductive Coupling via Lines Other Than Supply Lines)	ISO 7637-3 (<i>excluding DCC test method</i>)
Product Family Standards	ECE Regulation No.10 (Annex 7, 8, 9 (Appendix 3, 4), 10); IEC/EN 60601-1-2
Product Safety	
Audio/video, Information and Communication Technology Equipment	EN 62368-1:2014+A11:2017; EN IEC 62368-1:2020+A11:2020; EN IEC 62368-1:2024+A11:2024; IEC 62368-1:2014; IEC 62368-1:2018; IEC 62368-1:2023; AS/NZS 62368.1:2018; AS/NZS 62368.1:2022 (<i>Excluding Sections 5.4.1.4, 5.4.1.5.3, 5.4.1.10, 5.4.2, 5.4.3, 5.4.4, 5.6.4.1 (Annex R), 9.2.5, 10 Radiation / Laser (including laser diodes)10 Radiation / Light emitting diodes (LEDs), 10 Radiation / Image Projector, 10 Radiation / X-ray, 10 Radiation / Effect of UV radiation on materials (Annex C), 10 Radiation / Human exposure to UV radiation (Annex C), Annex C UV radiation / Carbon-arc light-exposure test, Annex C UV radiation / Xenon-arc light-exposure test, Annex C UV radiation / Tensile strength, ISO 527, Annex C UV radiation / Flexural strength, ISO 178, Annex C UV radiation / Charpy impact, ISO 179, Annex C UV radiation / Izod impact, ISO 180, Annex C UV radiation / Tensile impact, ISO 8256, Annex G.5.3.4, Annex G.7, Annex G.9, Annex G.13.6.2, Annex G.15 / Hydrostatic pressure, Annex G.15 / Tubing and fittings compatibility test, Annex J, Annex M.7, Annex M.8.2, Annex R, Annex S, Annex U, Annex Y.2 (Annex C), Annex Y.3, Annex Y.3.3, Annex Y.4.3, Annex Y.4.4, Annex Y.4.5, Annex Y.5, Annex Y.5.3, Annex Y.5.5, Annex Y.6.2</i>)

Test Technology:	Test Method(s) ^{1,2,3:}
Measurement, Control, and Laboratory Equipment	IEC/EN 61010-1; IEC 61010-1:2010+AMD1:2016; EN 61010-1:2010+A1:2019; IEC/EN 61010-2-010; IEC/EN 61010-2-020; IEC/EN 61010-2-051; IEC/EN 61010-2-081; IEC/EN 61010-2-101; IEC/EN 61010-2-201
Medical Equipment	<p>IEC/EN 60601-1; IEC 60601-1:2005+AMD1:2012+AMD2:2020; EN 60601-1:2006+A1:2013+A2:2021;</p> <p>IEC/EN 60601-1-3; IEC 60601-1-3:2008+AMD1:2013+AMD2:2021; EN 60601-1-3:2008+A1:2013+A2:2021;</p> <p>IEC/EN 60601-1-6; IEC 60601-1-6:2010+AMD1:2013+AMD2:2020; EN 60601-1-6:2010+A1:2015+A2:2021;</p> <p>IEC/EN 60601-1-8; IEC 60601-1-8:2006+AMD1:2012+AMD2:2020; EN 60601-1-8:2007+A1:2013+A2:2021;</p> <p>IEC/EN 60601-1-10; IEC 60601-1-10:2013;</p> <p>IEC/EN 60601-1-11; IEC 60601-1-11:2015+AMD1:2020; EN 60601-1-11:2015+A1:2021;</p> <p>IEC/EN 60601-2-2; IEC/EN 60601-2-4; IEC/EN 60601-2-5; IEC/EN 60601-2-10; IEC 60601-2-10:2012+AMD1:2016+AMD2:2023; EN 60601-2-10:2015+A1:2016+A2:2024;</p> <p>IEC/EN 60601-2-18; IEC/EN 60601-2-22; IEC/EN 60601-2-23; IEC/EN 60601-2-24; IEC/EN 60601-2-25; IEC/EN 60601-2-27; IEC/EN 60601-2-28; IEC/EN 60601-2-34; IEC/EN 60601-2-35; IEC/EN 60601-2-36; IEC/EN 60601-2-37; IEC/EN 60601-2-40; IEC 60601-2-43; IEC/EN 60601-2-44; IEC/EN 60601-2-45; IEC 60601-2-45:2011+AMD1:2015+AMD2:2022; EN 60601-2-45:2011+A1:2015+A2:2024;</p> <p>IEC/EN 60601-2-47; IEC/EN 60601-2-50; IEC 60601-2-50:2016; IEC/EN 60601-2-52; IEC/EN 60601-2-54; IEC/EN 60601-2-57; IEC/EN 60601-2-62;</p> <p>IEC/EN 60601-2-63; IEC 60601-2-63:2012+AMD1:2017+AMD2:2021; EN 60601-2-63:2015+A1:2019+A2:2021;</p> <p>IEC/EN 60601-2-65; IEC 60601-2-65:2012+AMD1:2017+AMD2:2021</p>

<u>Test Technology:</u>	<u>Test Method(s)</u> ^{1,2,3:}
Medical Equipment (continued)	EN 60601-2-65:2013+A1:2020+A2:2021; IEC/EN 60601-2-66; IEC/EN 60601-2-83; IEC/EN 62366; IEC/EN 62366-1; IEC 62366-1:2015+AMD1:2020; EN 62366-1:2015+A1:2020; IEC/EN 80601-2-26; IEC/EN 80601-2-30; IEC/EN 80601-2-49; ISO 80601-2-56; ISO 80601-2-56:2017+AMD1:2018; EN ISO 80601-2-56; EN ISO 80601-2-56:2017+A1:2020; IEC/EN 80601-2-60; ISO 80601-2-61; EN ISO 80601-2-61; IEC 80601-2-77; EN IEC 80601-2-77; IEC 80601-2-78; EN IEC 80601-2-78
Specific Absorption Rate (SAR) / RF Exposure / Nerve Stimulation	ARIB STD-T56; EN 50360; EN 50361; EN 50371; EN 50383; EN 50385; EN 50566; EN 50663; EN 62209-1; EN 62209-2; EN 62209-3; IEC/IEEE 62209-1528; EN IEC/IEEE 62209-1528; EN 62232; EN 62311; EN 62479; IEC 62209-2; EN IEC/IEEE 63195-1; IEC/IEEE 63195-1; IEEE Std 1528:2013; ACMA Radio Communications; ARPANSA Radiation Protection Standard; ASNZS 2772.2; 1999/519/EC; IEC PAS 63083
Hearing Aid Compatibility (HAC)	47 CFR, FCC Part 20 (using ANSI C63.19-2011 or ANSI C63.19-2019); TIA-5050; CTIA HAC Test Plan
Telecommunications Terminal Equipment	ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 300 440; ETSI EN 301 091-1; ETSI EN 301 893; ETSI EN 301 908-1; ETSI EN 301 908-14; ETSI EN 301 908-15; ETSI EN 302 264; ETSI EN 302 288; ETSI EN 302 567; ETSI EN 302 858; ETSI EN 303 360; ETSI EN 303 396; ETSI EN 303 413; ETSI EN 303 417; ETSI EN 305 550-1; ETSI EN 305 550-2; ETSI EN 303 687
Unlicensed Radio – FCC	CFR 47, FCC Part 15C (using ANSI C63.10:2013, ANSI C63.10:2020); CFR 47, FCC Part 15E (using ANSI C63.10:2013, ANSI C63.10:2020 and FCC KDB 905462 D02 (v02)); CFR 47, FCC Part 15F (using ANSI C63.10:2013, ANSI C63.10:2020); CFR 47, FCC Part 15H (using ANSI C63.10:2013, ANSI C63.10:2020)
Licensed Radio – FCC	CFR 47, FCC Part 20 (using ANSI C63.26:2015); CFR 47, FCC Part 22 (using ANSI C63.26:2015); CFR 47, FCC Part 24 (using ANSI C63.26:2015); CFR 47, FCC Part 25 (using ANSI C63.26:2015); CFR 47, FCC Part 27 (using ANSI C63.26:2015); CFR 47, FCC Part 30 (using ANSI C63.26:2015); CFR 47, FCC Part 74 (using ANSI C63.26:2015); CFR 47, FCC Part 90 (using ANSI C63.26:2015)

Test Technology:	Test Method(s) ^{1,2,3:}
Licensed Radio – FCC	CFR 47, FCC Part 95 (using ANSI C63.26:2015); CFR 47, FCC Part 96 (using ANSI C63.26:2015); CFR 47, FCC Part 97 (using ANSI C63.26:2015); CFR 47, FCC Part 101 (using ANSI C63.26:2015)

On the following generic product types:

Telecommunications Terminal Equipment (TTE), Radiocommunication Equipment and System, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Maritime Navigation and Vehicles, Medical Electrical Equipment, Industrial Equipment, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Lightning Equipment, Batteries, Military Electrical Equipment.

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 This laboratory’s scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered “historical” and not that the laboratory’s accreditation for the method has been withdrawn.

³ 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 test method, per Annex A, Part C of A2LA’s *R101 - General Requirements: Accreditation of Conformity Assessment Bodies*.

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:		
Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Intentional Radiators		
Part 15C	ANSI C63.10-2013; ANSI C63.10-2020	325000
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10-2013; ANSI C63.10-2020	40000
U-NII with DFS Intentional Radiators		
Part 15E	KDB 905462 D02 (v02)	40000
UWB Intentional Radiators		
Part 15F	ANSI C63.10-2013; ANSI C63.10-2020	200000
White Space Device Intentional Radiators		
Part 15H	ANSI C63.10-2013; ANSI C63.10-2020	7000

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:

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Commercial Mobile Services</u> (FCC Licensed Radio Service Equipment)		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI C63.26-2015	200000
<u>General Mobile Radio Services</u> (FCC Licensed Radio Service Equipment)		
Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI C63.26-2015	325000
<u>Microwave and Millimeter Wave Bands Radio Services</u>		
Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI C63.26-2015	325000
<u>Citizens Broadband Radio Services</u>		
Part 96	ANSI C63.26-2015	40000
<u>Signal Boosters</u>		
Part 20 (Wideband Consumer Signal Boosters, Provider-specific Signal Boosters, and Industrial Signal Boosters), Part 90.219	ANSI C63.26-2015	40000
<u>RF Exposure</u>		
Devices Subject to SAR Requirements	IEEE Std 1528-2013	6000
<u>Hearing AID Compatibility</u>		
Part 20 (HAC for Commercial Mobile Services)	ANSI C63.19-2011; ANSI C63.19-2019	6000
Note: 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

HCT CO., LTD.

Icheon-Si, Gyeonggi-Do, South Korea

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 the A2LA – R256 – Specific Requirements. 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 11th day of August 2025.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4114.01
Valid to August 31, 2027

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