To apply for A2LA accreditation under the electrical field of testing, each applicant is required to identify the test type/test technology and associated test method(s) for which accreditation is sought on table-A below. The Electrical field of testing currently encompasses general electrical, automotive EMC, bluetooth, electromagnetic compatibility (FCC), product safety, SAR, telecommunications and wireless (CTIA, CCF) testing. In addition, please identify the types of products, materials, and/or industry that your laboratory tests on table-B below. This will ensure that an assessor’s technical expertise is correctly matched to the testing that your laboratory performs and enables A2LA staff to generate the desired draft Scope of Accreditation.

Refer to the example proposed scope of accreditation (0000.01) on the next page for reference when entering the required information in tables A and B. Please provide a draft scope of accreditation in the format below along with your application submission.

**Table A**

 Test Type/Technology: Test Method:

|  |  |
| --- | --- |
| e.g. Emissions (Radiated and Conducted) | CFR 47, FCC Part 15 (using ANSI C63.4), CISPR 22 |
| e.g. Electrostatic Discharge (ESD) | EN 61000-4-2, IEC 61000-4-2 |
| e.g. Dielectric Withstand Voltage | MIL-STD-202G Method 301 |
| e.g. Specific Absorption Rate (SAR) | FCC OET 65, Supplement C Australian Communications Authority “Radiocommunications (Electromagnetic Radiation-Human Exposure) Standard 2001; IEEE1528; RSS-102 |
| e.g. Bluetooth | TCRL for Protocol and Profile Conformance Testing |
| e.g. Product Safety (Insulation Resistance, Leakage Current) | AZ/NZS 60950, EN 60950 |
| e.g. Telecommunications | CFR 47 FCC Part 68; ANSI/TIA 968B |
| e.g. Bulk Current Injection (Ford, GM) | ISO 114532-4 |
| e.g. CDMA | CTIA Certification Program Test Plan for CDMA Mobile Stations; CCF Lab Certification Program for CDMA Terminal Devices |
| e.g. Medical Equipment | IEC 60601-1-2, IEC 61010-1 |
|  |  |
| Please attach sheet(s) for additional tests |

## Table B

Types of products, materials, and/or industry that the laboratory tests:

|  |
| --- |
| **e.g. Telecommunications Terminal Equipment (TTE), Network Equipment, Information Technology Equipment (ITE), Medical Electrical Equipment, Laboratory Equipment, Electronic Displays, Radio Equipment, Solid-State Lighting Products, Bluetooth Devices, Household Appliances, Sound and Television Broadcast Receivers, etc.** |

# *PROPOSED SCOPE OF ACCREDITATION*

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EXAMPLE DRAFT SCOPE LABORATORY

*Identify the technologies on which you perform testing.*

12345 Main Street

Frederick, MD 21704

John Doe Phone: 555 555 5555

ELECTRICAL

Valid To: May 31, 2011 Certificate Number: 0000.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following automotive EMC, bluetooth, electromagnetic compatibility, product safety, SAR, telecommunications and wireless (CTIA, CCF) tests:

For laboratories seeking FCC recognition, Rule Parts and associated Test Methods shall correspond with the FCC table below.

Test: Test Methods:

### Electromagnetic Compatibility

Emissions

 Radiated and Conducted CFR 47, FCC Part 15 (using ANSI C63.4);

 CISPR 22

Immunity

List the test type/technology and associated standard test method(s) that the laboratory is seeking accreditation for.

 Electrostatic Discharge (ESD) IEC 61000-4-2

 Radiated Immunity IEC 61000-4-3

Dielectric Withstand Voltage MIL-STD-202G Method 301

#### Telecommunications CFR 47 FCC Part 68; ANSI/TIA 968B

#### Product Safety AS/NZS 60950; EN 60950

 Insulation Resistance

 Leakage Current

 Temperature Rise

*Bluetooth* TCRL for Protocol and Profile Conformance

 Testing

*Specific Absorption Rate (SAR)* FCC OET 65, Supplement C

 Australian Communications Authority

 “Radiocommunications” (Electromagnetic

 Radiation-Human Exposure) Standard 2001;

 IEEE 1528; RSS-102

*Wireless*

CDMA CTIA Certification Program Test Plan for

 CDMA Mobile Stations;

 CCF Lab Certification Program for CDMA

 Terminal Devices

*Identify the product(s) and/or materials on which you perform testing.*

On the following products or types of products:

Industrial, Scientific, Medical (ISM), Information Technology Equipment (ITE),

Network Equipment, Medical Electrical Equipment

\*Please note that a laboratory can be accredited to in-house procedures/test methods in combination with or in lieu of internationally recognized test methods.

\*\* Please note that to be considered for accreditation, a copy of each selected test method and the requisite equipment must be available at the laboratory.

*For CABs seeking FDA ASCA recognition, include the FDA ASCA table at the bottom of the Scope for the standards to which the laboratory is seeking recognition.*

|  |
| --- |
| 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#* |
| **Standards** | **ASCA Doc Number** |
| IEC 60601-1-2 Edition 4.1 2020-09 CONSOLIDATED VERSION | 19-36 |
| IEC 61010-1 Edition 3.1 2017-01 CONSOLIDATED VERSION | 19-34 |

#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.

|  |
| --- |
| 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)**  |
| Unintentional Radiators  |   |   |
| Part 15B  | ANSI C63.4:2014    |  *Include the FCC table at the bottom of the Scope for the Rule Parts to which the laboratory is seeking recognition.* |
| Industrial, Scientific, and Medical Equipment  |   |   |
| Part 18   | FCC MP-5:1986  |   |
| Intentional Radiators  |   |   |
| Part 15C   | ANSI C63.10:2013  |   |
| Unlicensed Personal Communication Systems Devices  |   |   |
| Part 15D   | ANSI C63.17:2013  |   |
| U-NII without DFS Intentional Radiators  |   |   |
| Part 15E   | ANSI C63.10:2013  |   |
| U-NII with DFS Intentional Radiators  |   |   |
| Part 15E   | FCC KDB 905462 D02 (v02)  |   |
| UWB Intentional Radiators   |   |   |
| Part 15F   | ANSI C63.10:2013  |   |
| BPL Intentional Radiators  |   |   |
| Part 15G   | ANSI C63.10:2013  |   |
| White Space Device Intentional Radiators  |   |   |
| Part 15H  | ANSI C63.10:2013  |   |
| **Rule Subpart/Technology**   | **Test Method**  | **Maximum Frequency (MHz)**  |
| Commercial Mobile Services (FCC Licensed Radio Service Equipment)  |   |   |
| Parts 22 (cellular), 24, 25 (below 3 GHz), and 27    | ANSI/TIA-603-E,  TIA-102.CAAA-E, ANSI C63.26:2015   |   |
| General Mobile Radio Services (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/TIA-603-E,  TIA-102.CAAA-E, ANSI C63.26:2015   |   |
| Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)  |   |   |
| Part 96   | ANSI/TIA-603-E,  TIA-102.CAAA-E, ANSI C63.26:2015   |   |
| Maritime and Aviation Radio Services  |   |   |
| Parts 80 and 87   | ANSI/TIA-603-E,  ANSI C63.26:2015   |   |
| Microwave and Millimeter Bands Radio Services  |   |   |
| Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101   | ANSI/TIA-603-E,  TIA-102.CAAA-E, ANSI C63.26:2015   |   |
| Broadcast Radio Services  |   |   |
| Parts 73 and 74 (below 3 GHz)   | ANSI/TIA-603-E,  TIA-102.CAAA-E, ANSI C63.26:2015   |   |
| RF Exposure  |   |   |
| Devices Subject to SAR Requirements   | IEEE Std 1528:2013  |   |
| Hearing Aid Compatibility  |   |   |
| Part 20 (HAC for Commercial Mobile Services)   | ANSI C63.19:2011  |   |
| Signal Boosters  |   |   |
| Part 20 (Wideband Consumer Signal Boosters, Provider-specific Signal Boosters, and Industrial Signal Boosters),  Section 90.219  | ANSI C63.26:2015  |   |

#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.

**DOCUMENT REVISION HISTORY**

|  |  |
| --- | --- |
| **Date** | **Description** |
| 03/28/23 | * Removed CISPR 24 from Emissions sections.
* Added additional product types to the Table B product listing.
* Added the FDA ASCA and FCC tables
* Added medical equipment standards to Table A
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