This document has been created by the A2LA Electro-Mechanical Advisory Committee (EMAC) to provide guidance on formatting A2LA scopes of accreditation specific to the Electrical field of testing to:

- Assist laboratories in meeting regulatory requirements;
- Ensure consistency in the presentation of technical capabilities among accredited laboratories in the Electrical/EMC field; and
- Clarify the true technical capabilities of each laboratory

Pursuant to Part C, Section I (Scopes of Accreditation), in A2LA R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories, “The scope of accreditation is the fundamental document attesting to the organization’s competence to perform test and/or calibration services as indicated on the scope of accreditation.” For general scope formatting guidelines such as preferred layout, preferred methods, method revision status, and parameter-based scopes, please refer to this section of R101.

The following sections outline areas commonly listed on A2LA Electrical scopes of accreditation. Each section provides specific requirements, which are mandated either by relevant specifiers of accreditation or A2LA.

I. Radiated and Conducted Emissions

CISPR 11/EN 55011: On a test site, class A equipment can be measured at a nominal distance of 3m, 10m or 30m, and class B equipment at a nominal distance of 3m or 10m. However, a measuring distance less than 10m is allowed only for equipment which complies with the definition given in 3.10 (of these standards).

RRL Explanatory Note (2010-03): When a measurement at 10m cannot be made because of high ambient signal levels, the equipment that has maximum dimensions of up to 1×1×1 m³ may be measured at 3m. The limit is to be adjusted (increased) by 10.5dB. In case of dispute, the result of the measurement at 10m applies. This note clearly states that a closer test distance is only permissible on an OATS due to high ambient signal levels. It does not mean that the measurements can be performed in a 3m semi-anechoic chamber.

II. Automotive EMC

Ford Motor Company, General Motors, and Chrysler (i.e. the OEM’s), have formally agreed to an OEM recognition process for testing laboratories: Automotive EMC Recognition Process. Table 2 of this document lists the base specifications that must be included on the laboratory’s ISO/IEC 17025 scope of accreditation (issued by an ILAC signatory AB).

References to individual test locations (i.e. test chambers) are not included on the scope of accreditation under the Automotive EMC Recognition Process.

III. Energy Star

Specific test methods must appear in an accredited laboratory’s scope of accreditation for non-lighting product categories before the laboratory can be recognized by the U.S. Environmental Protection Agency.
(EPA) to test products for ENERGY STAR® qualification. A list of required methods for non-lighting tests is available at: EPA Non-Lighting Methods

IV. Military

MIL-STD-461/462: Versions 461A through 461D are not permitted on a scope unless accompanied by MIL-STD-462. Versions 461E and 461F are acceptable on their own as the older versions only list limits and point to 462 for methods.

V. Product Safety and Radio

Tests shall first be listed according to product category: Household (60335), Tools (60745), Medical (60601), Office (60950), Laboratory (61010), Photovoltaic (60891), A/V (60065), Laser (60825), Lighting (60838), etc. If the laboratory is not able to perform every test method within the product category, then a specific list of either excluded or included methods (particular requirements) shall be listed. The shorter list (exclusions vs. inclusions) is preferred.

Example:
Household IEC 60335 (excluding sections 2-95 and 2-97)
Tools IEC 60745 (sections 2-11, 2-12, and 2-14 only)

VI. Regulatory Requirements

United States (FCC): Pursuant to KDB 974614 Accredited Testing Laboratory Program Roles and Responsibilities, testing laboratories are required to be accredited to ISO/IEC 17025 for the applicable test methods listed in Tables 1 and 2.

United States (FCC): Testing laboratories associated with a Telecommunication Certification Body (TCB) Program shall be accredited to the regulations and measurement procedures as listed in Table 2 of TCB Program Roles and Responsibilities.

APEC TEL MRA Phase I: Testing laboratories are required to be accredited to ISO/IEC 17025 with specific test methods listed on their scope of accreditation. Links for each economy’s specific requirements are as follows:

- Australia
- Canada
- Chinese Taipei (BSMI)
- Chinese Taipei (NCC)
- Hong Kong
- Republic of Korea
- Singapore
- Vietnam

US-Japan EMC Arrangement: Based on an exchange of letters between the Government of Japan and United States Trade Representative (USTR), The Voluntary Control Council for Interference by Information Technology Equipment (VCCI), a private-sector Japanese organization, will accept test results for IT equipment from accredited U.S. laboratories that are in compliance with ISO/IEC 17025 and specific VCCI requirements. VCCI Rules are located at: VCCI Council Rules

VII. Footnotes on Scopes of Accreditation:
**Dated vs. Undated Test Methods (applicable for all Electrical Scopes):** “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. If a specifier/regulator imposes a different transition period, this will supersede A2LA’s one-year implementation period.”

**Withdrawn/Superseded Methods Listed on Scopes (where applicable):** “This laboratory’s scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method(s) itself has been withdrawn or is now considered “historical” and not that the laboratory’s accreditation for the method(s) has been withdrawn.”

**Accreditation for Field Testing (where applicable):** “This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these tests.”

**Parameter Based Scopes (where applicable):** “This laboratory also uses customer supplied specifications and/or methods directly related to the types of tests and within the parameters listed above.”
# DOCUMENT REVISION HISTORY

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<tr>
<td>01/05/19</td>
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<td>➢ Updated Header/Footer to current version</td>
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