SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY DENVER-LONGMONT
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ELECTRICAL

Valid To: February 29, 2028 Certificate Number: 0214.43

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility/Interference (EMC/EMI), Transient, and Surge tests:

Test Technology	**Test Methods [1,2]:**
Emissions	
Radiated and Conducted (10 meter semi-anechoic chamber, up to 40 GHz)	CFR 47 FCC, Part 15B (using ANSI C63.4:2014); CFR 47 FCC, Part 18 (using MP-5:1986); CISPR 11; EN 55011; AS CISPR 11; KS C 9811; CISPR 32:2015 (excluding Annex H); EN 55032 (excluding Annex H); AS/NZS CISPR 32 (excluding Annex H); KS C 9832 (excluding Annex H); VCCI-CISPR 32:2016 (excluding Annex H); CISPR 14-1 (excluding disturbance power and click measurements); EN 55014-1(excluding disturbance power and click measurements); AS/NZS CISPR 14-1 (excluding disturbance power and click measurements); KS C 9814-1(excluding disturbance power and click measurements); CNS 15936 (2016); TCVN 7189; QCVN 118:2018/BTTTT; ICES-003
Harmonics	IEC 61000-3-2; EN 61000-3-2; IEC 61000-3-12; EN 61000-3-12
Flicker	IEC 61000-3-3; EN 61000-3-3
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; KS C 9610-4-2
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; KS C 9610-4-3

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Test Technology	Test Methods [1,2]:
Electrical Fast Transient/Burst	IEC 61000-4-4; EN 61000-4-4; KS C 9610-4-4
Surge	IEC 61000-4-5; EN 61000-4-5; KS C 9610-4-5; IEEE C62.41.1 (2002); IEEE C62.41.2 (2002); IEEE C62.45 (2002)
Conducted Immunity	IEC 61000-4-6:2023; EN 61000-4-6; KS C 9610-4-6
Magnetic Field Immunity	IEC 61000-4-8 (excluding short duration mode); EN 61000-4-8 (excluding short duration mode); KS C 9610-4-8 (excluding short duration mode); IEC 61000-4-39 (Medical Devices only); EN 61000-4-39 (Medical Devices only)
Voltage Dips, Short Interruptions, and Voltage Variations	IEC 61000-4-11; EN 61000-4-11; KS C 9610-4-11
Generic/Product Family Standards and Industry Standards	IEC 61000-6-1; EN 61000-6-1; KS C 9610-6-1; IEC 61000-6-2; EN 61000-6-2; KS C 9610-6-2; IEC 61000-6-3; EN 61000-6-3; KS C 9610-6-3; IEC 61000-6-4; EN 61000-6-4; KN 61000-6-4; KS C 9610-6-4; IEC 60601-1-2; EN 60601-1-2; KS C IEC 60601-1-2; EN 61326-1; CISPR 24; EN 55024; KS C 9824; CISPR 35 (excluding Annex A-H); EN 55035 (excluding Annex A-H); KS C 9835 (excluding Annex A-H); CISPR 14-2; EN 55014-2; KS C 9814-2; ISO 7176-21
Automotive	
Automotive Radiated Emissions	CISPR 25 (2008, 2016, 2021); CISPR 25
Radiated Immunity – ALSE (200 MHz - 6 GHz [100 V/m]) (1.2 GHz - 3.2 GHz [100V/m])	ISO 11452-2; ISO 11452-2 (2019) Road Vehicles — Component Test: Methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined Shielded Enclosure
Stripline (10 kHz - 400 MHz)	ISO 11452-5; ISO 11452-5 (2002) Road Vehicles – Component Test: Methods for electrical disturbances from narrowband radiated electromagnetic energy
Military/Defense	MIL-STD-461E, F, G Method CE101 (30 Hz to 10 kHz); MIL-STD-461E, F, G Method CE102 (10 kHz to 10 MHz); MIL-STD-461E, F, G Method CE106 (10 kHz to 40 GHz); MIL-STD-461E, F, G Method CS101 (30 Hz to 150 kHz); MIL-STD-461E, F, G Method CS106; MIL-STD-461E, F, G Method CS114 (10 kHz to 200 MHz)

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Test Technology	Test Methods [1,2]:
Military/Defense (continued)	MIL-STD-461E, F, G Method CS115; MIL-STD-461E, F, G Method CS116 (10 kHz to 100 MHz); MIL-STD-461G CS118; MIL-STD-461E, F, G Method RE101 (30 Hz to 100 kHz); MIL-STD-461E, F, G Method RE102 (10 kHz to 18 GHz); MIL-STD-461E, F, G Method RE103 (10 kHz to 40 GHz); MIL-STD-461E, F, G Method RS101 (30 Hz to 100 kHz); MIL-STD-461E, F, G Method RS103 (2 MHz to 40 GHz); MIL-STD-7043 D, E, F; MIL-HDBK-704-1 Methods: All SAC 400 Hz Tests; MIL-HDBK-704-2 Methods: All SAC 400 Hz Tests; MIL-HDBK-704-3 Methods: All TAC Tests; MIL-HDBK-704-4 Methods: All SAC VF Tests; MIL-HDBK-704-5 Methods: All TAC VF Tests; MIL-HDBK-704-6 Methods: All SAC 60 Hz Tests; MIL-HDBK-704-7 Methods: All HDC Tests; MIL-HDBK-704-8 Methods: All LDC Tests
Aerospace	RTCA DO-160G Section 15; RTCA DO-160G Section 16[3]; RTCA DO-160G Section 17[3]; RTCA DO-160G Section 18[3]; RTCA DO-160G Section 19[3]; RTCA DO-160G Section 20; RTCA DO-160G Section 21; RTCA DO-160G Section 25[3]

On the following types of products:
Telecommunication Equipment, Network Equipment, Industrial and Commercial Equipment, Electronic (Digital) Equipment, Medical, Aerospace, Military. Information Technology Equipment, Multimedia Equipment, Scientific 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] 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.

[3] This laboratory performs field testing activities for the noted tests.

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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	40000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5 (February 1986)	40000
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.		

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY DENVER-LONGMONT

Longmont, CO

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 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 31st day of March 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 214.43
Valid to February 29, 2028

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

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