SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY DALLAS – PLANO WEST
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ELECTRICAL

Valid to: December 31, 2025 Certificate Number: 214.19

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), NEBS, wireless, and telecom tests:

Test Technology:	**Test Method(s):**
Emissions	
Radiated Emissions	47 CFR, FCC Part 15 (Subpart B) using ANSI C63.4:2014; 47 CFR, FCC Part 18 using MP5:1986; CISPR 11; EN 55011; AS/NZS CISPR 11:2011; KS C 9811; CISPR 25 (section 6.5); CISPR 32 (excluding Annex H); EN 55032 (excluding Annex H); KS C 9832 (excluding Annex H); VCCI-CISPR 32:2016 (excluding Annex H); CNS 15936 (up to 6 GHz); QCVN 118: 2018/BTTTT; ICES-003; ICES-002; EN 13309; ISO 13766-1:2018; ISO 13766-2:2018; GR 1089-CORE
Radiated Emissions (MIL/RTCA/DO)	MIL-PRF-28800F; MIL-STD-461 B-G (Methods RE101, RE102, RE103); MIL-STD-462; RTCA/DO-160 C-G (Sections 15, 21)
Conducted Emissions	47 CFR, FCC Part 15 (Subpart B) using ANSI C63.4:2014; FCC Part 18 (using MP5:1986); CISPR 11; EN 55011; AS CISPR 11; KS C 9811

Test Technology:	Test Method(s):
Conducted Emissions *(continued)*	CISPR 25 (sections 6.3 and 6.4); CISPR 32; EN 55032; KS C 9832; VCCI-CISPR 32 :2016; CNS 15936; QCVN 118: 2018/BTTTT; ICES-003; ICES-002; ISO 13766; GR 1089-CORE
Conducted Emissions (MIL/RTCA/DO)	MIL-STD-461 B-G (Methods CE101, CE102, CE106); MIL-STD-462; MIL-PRF-28800F; RTCA/DO-160 C-G (Section 21)
Current Harmonics	IEC/EN 61000-3-2; AS/NZS 61000.3.2
Flicker	IEC/EN 61000-3-3; AS/NZS 61000.3.3
Immunity	
Electrostatic Discharge (ESD)	EN/IEC 61000-4-2; KS C 9610-4-2; ISO 13766; GR-1089-CORE
Electrostatic Discharge (MIL/RTCA/DO)	MIL-PRF-28800F; RTCA/DO-160 C-G (Section 25); CS118
Radiated Immunity	KS C 9610-4-3; MIL-STD-461 B-G (Methods RS101, RS103); MIL-STD-462; MIL-PRF-28800F; DoD-STD-1399, Section 300A and B; IEEE P1613; MIL-STD 1275; EN/IEC 55104; ISO 13766-1:2018; ISO 13766-2:2018; EN 13309; GR-1089-CORE; ISO 11452-2; RTCA/DO-160 C-G (Section 20)
Electrical Fast Transient/Burst	EN/IEC 61000-4-4; KS C 9610-4-4; IEEE P1613; GR-1089-CORE
EFT (MIL/RTCA/DO)	MIL-PRF-28800F
Surge	EN/IEC 61000-4-5; KS C 9610-4-5; IEEE P1613; IEEE 37.90.1; K20; K21; RTCA/DO-160 C-G (Section 22); GR-1089-CORE
Conducted Immunity	EN/IEC 61000-4-6; KS C 9610-4-6; GR-1089-CORE
Conducted Immunity (MIL/RTCA/DO)	MIL-STD-1399; MIL-STD-461 B-G (Methods CS101, CS102, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118)

Test Technology:	**Test Method(s):**
Conducted Immunity (MIL/RTCA/DO) *(cont.)*	MIL-STD-462; MIL-PRF-28800F; RTCA/DO-160C-G (Sections 16, 17, 18,19, 20, 22)
Power Frequency Magnetic Field Immunity	EN/IEC 61000-4-8 (excluding short duration mode); KS C 9610-4-8 (excluding short duration mode)
Voltage Dips, Short Interruptions and Line Voltage Variations	EN/IEC 61000-4-11; KS C 9610-4-11
Power Transients	EN 300 132-1 ; EN 300 132-2; ANSI T1.315; ATT-TP-76200; ATT-TP-76450
Power Transients (MIL/RTCA/DO)	MIL-HDBK-704/2-8; DoD-STD-1399, Section 300A and B; MIL-STD 1275; RTCA/DO160C-G Section 16
Lightning	RTCA/DO-160 C-G (Section 22); GR-1089-CORE; MIL-HDBK-704/2-8; MIL-STD 461 G CS117
Steady State Power Induction	GR-1089-CORE; ETSI EN 300 386; AT&T-TP76200
DC Potential	GR-1089-CORE; AT&T-TP76200
Electrical Safety	GR 1089-CORE; AT&T-TP76200
Bonding & Grounding	GR 1089-CORE; AT&T-TP76200
Insulation Resistance	GR-49-CORE; GR-937-CORE; GR-950-CORE; GR-2916-CORE
Energy Efficiency for Telecom Equipment	ATIS-0600015; VZ.TPR.9205
Heat Dissipation	GR-63-CORE; ATIS-0600010
DC Power Port	GR-1089-CORE (Section 10)
Generic/Product Family Standards and Industry Standards	EN/IEC 61000-6-1; KS C 9610-6-1; EN/IEC 61000-6-2; KS C 9610-6-2; EN/IEC 61000-6-3; KS C 9610-6-3; AS/NZS 61000.6.3; EN/IEC 61000-6-4; KS C 9610-6-4; AS/NZS 61000.6.4; KS C 9824; CISPR 24; EN 55024; EN 61326; ETSI EN 300 386; GR-1089-CORE; ATT-TP-76200; EN/IEC 60601-1-2; EN 50082; EN 61326; IEC 60601-1-2; CISPR 14-2; KS C 9814-2; EN 55014-2; CISPR 35 (excluding Annex A and G)

Test Technology:	Test Method(s):
Generic/Product Family Standards and Industry Standards *(cont.)*	EN 55035 (excluding Annex A and G); KS C 9835 (excluding Annex A and G); IEEE P1613

On the following products or types of products:

Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Industrial, Commercial, and Military Test Equipment.

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 [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

[1] 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

ELEMENT MATERIALS TECHNOLOGY DALLAS – PLANO WEST

Plano, TX

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 27th day of February 2024

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 214.19
Valid to December 31, 2025

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