

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NATIONAL TECHNICAL SYSTEMS CANADA INC.
 1490-D Nobel Street
 Boucherville, Quebec, Canada, J4B 5H3
 Mr. Xavier Couste Phone: 450 868 0360
 Email: Xavier.Couste@ntslabs.com

ELECTRICAL (EMC)

Valid To: September 30, 2024

Certificate Number: 0214.48

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on Consumer, Laboratory, Medical, Railway, Automotive, Aerospace, & Photonic products:

Test(s):

Test Method(s) ²:

EMISSIONS

Conducted and Radiated Emissions
 (3m semi-anechoic chamber)

47 CFR FCC Part 15, Subpart B (using ANSI C63.4:2014);
 47 CFR FCC Part 18, (using OET MP-5:1986);
 CISPR 11¹; EN 55011¹; CISPR 12¹; EN 55012¹;
 CISPR 14-1¹ (excluding disturbance power measurements);
 EN 55014-1¹ (excluding disturbance power measurements);
 CISPR 15¹; EN 55015¹;
 CISPR 22¹; EN 55022¹; AS-NZS CISPR 4:2016
 EN 55032

¹ (excluding Annex H); KS C 9832;
 AS/NZS CISPR 32¹ (excluding Annex H);
 ICES-001¹; ICES-002¹; ICES-003¹; ICES-005¹

Harmonic Emissions EN 61000-3-2; IEC 61000-3-2; AS/NZS 61000-3-2

Voltage Fluctuations and Flicker EN 61000-3-3; IEC 61000-3-3; AS/NZS 61000-3-3

IMMUNITY

ESD EN 61000-4-2¹; IEC 61000-4-2¹; ANSI C37.90.3;
 KS C 9610-4-2

Radiated Immunity EN 61000-4-3¹; IEC 61000-4-3



Test(s):

Test Method(s) ²:

IMMUNITY (cont.)

Surge	EN 61000-4-5 ¹ ; IEC 61000-4-5 ¹ ; KS C 9610-4-5
Conducted Immunity	EN 61000-4-6 ¹ ; IEC 61000-4-6 ¹ ; KS C 9610-4-6
Power Frequency Magnetic Field	EN 61000-4-8 ¹ ; IEC 61000-4-8 ¹ ; KS C 9610-4-8
Pulse Magnetic Field	EN 61000-4-9 ¹ ; IEC 61000-4-9 ¹
Damped Oscillated Magnetic Field	EN 61000-4-10 ¹ ; IEC 61000-4-10 ¹
Voltage Dips, Short Interruptions and Voltage Variations	EN 61000-4-11 ¹ ; IEC 61000-4-11 ¹ ; KS C 9610-4-11
Harmonics and Interharmonics	EN 61000-4-13; IEC 61000-4-13
Conducted Common Mode	

Test(s):

PRODUCT STANDARDS (cont.)

Airborne Equipment

Test Method(s) ²:

RTCA-DO160 Section 15 (Magnetic Effect);

RTCA-DO160 Section 16 (Power Input);

RTCA-DO160 Section 17 (Voltage Spike);

RTCA-DO160 Section 18

(Audio Frequency Conducted Susceptibility – Power Inputs);

RTCA-DO160 Section 19 (Induced Signal Susceptibility)

Paragraphs 19.3.1, 19.3.2, 19.3.3, 19.3.4 only);

RTCA-DO160 Section 20.4 (Conducted Susceptibility reW nBT-C

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 ³:

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Unintentional Radiators Part 15B	ANSI C63.4:2014	26500
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	26500

³Accreditation 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

NATIONAL TECHNICAL SYSTEMS CANADA INC.

Boucherville, Québec, Cae

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 2.75()TJMC 1 Tf0 Tc 5 Tc 1.013 Tw 359074.40640.1184m8u



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