## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

## NATIONAL TECHNICAL SYSTEMS CANADA INC.

1490-D Nobel Street

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### 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 <u>Consumer</u>, <u>Laboratory</u>, <u>Medical</u>, <u>Railway</u>, <u>Automotive</u>, <u>Aerospace</u>, & <u>Photonic products</u>:

Test(s):	Test Method(s) $\frac{2}{3}$ :
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### **EMISSIONS**

Conducted and Radiated 47 CFR FCC Part 15, Subpart B (using ANSI C63.4:2014);

Emissions 47 CFR FCC Part 18, (using OET MP-5:1986);

(3m semi-anechoic chamber) CISPR 11<sup>1</sup>; EN 55011<sup>1</sup>; CISPR 12<sup>1</sup>; EN 55012<sup>1</sup>; CISPR 14-1<sup>1</sup> (excluding disturbance power measurements);

EN 55014-1<sup>1</sup> (excluding disturbance power measurements);

CISPR 15<sup>1</sup>; EN 55015<sup>1</sup>;

CISPR 22<sup>1</sup>; EN 55022<sup>1</sup>; AS-NZS CISPI41Tw 6)2.96 Tm(; )T0 Tc 0 AS--5. ÃFÖA

EN 55032

<sup>1</sup> (excluding Annex H); KS C 9832;

AS/NZS CISPR 32<sup>1</sup> (excluding Annex H);

ICES-001<sup>1</sup>; ICES-002<sup>1</sup>; ICES-003<sup>1</sup>; ICES-005<sup>1</sup>

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 61000-4-2<sup>1</sup>; IEC 61000-4-2<sup>1</sup>; ANSI C37.90.3;

KS C 9610-4-2

Radiated Immunity EN 61000-4-3<sup>1</sup>; IEC 61000-4-3



<u>Test(s):</u> <u>Test Method(s)  $\stackrel{2}{=}$ :</u>

IMMUNITY (cont.)

Surge EN 61000-4-5<sup>1</sup>; IEC 61000-4-5<sup>1</sup>; KS C 9610-4-5

Conducted Immunity EN 61000-4-6<sup>1</sup>; IEC 61000-4-6<sup>1</sup>; KS C 9610-4-6

Power Frequency Magnetic

Field

EN 61000-4-8<sup>1</sup>; IEC 61000-4-8<sup>1</sup>; KS C 9610-4-8

Pulse Magnetic Field EN 61000-4-9<sup>1</sup>; IEC 61000-4-9<sup>1</sup>

Damped Oscillated Magnetic

Field

EN 61000-4-10<sup>1</sup>; IEC 61000-4-10<sup>1</sup>

Voltage Dips, Short Interruptions and Voltage

Variations

EN 61000-4-11<sup>1</sup>; IEC 61000-4-11<sup>1</sup>; KS C 9610-4-11

Harmonics and Interharmonics EN 61000-4-13; IEC 61000-4-13

Conducted Common Mode

#### Test(s): Test Method(s) 2:

## PRODUCT STANDARDS (cont.)

Airborne Equipment

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);

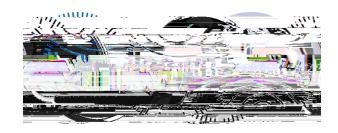
RTCA-DO160 Section 20.4 (Conducted Susceptibilit0 reW nBT-0



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 <sup>3</sup>:

Rule Subpart/Technology	<b>Test Method</b>	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

<sup>&</sup>lt;sup>3</sup>Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<a href="https://apps.fcc.gov/oetcf/eas/">https://apps.fcc.gov/oetcf/eas/</a>) 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() TEMC 1 Tf0 Tc 5 Tc 1.013 Tw 93599914.409142.1184m8u



