

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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**ELECTROMAGNETIC COMPATIBILITY &
TELECOMMUNICATIONS**

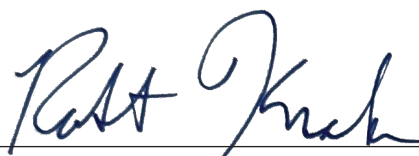
NVLAP LAB CODE 200422-0

Emissions

Designation

Description

EN 55011:2016/A2:2021	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified)
EN 55022 (2010) + AC (2011)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55032:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015)
IEC/CISPR 11 ED. 7.0 (2024-02)	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
IEC/CISPR 22 Ed. 6.0 (2008-09)	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
CISPR 32, Ed. 2.1 (2015) + A1 (2019)	Electromagnetic compatibility of multimedia equipment - Emission requirements
RTCA/DO-160B (1984)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency Energy
RTCA/DO-160A (1980)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency Energy



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RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emission of Radio Frequency Energy
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21: Emissions of Radio Frequency Energy
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.3: RF Emissions, Conducted
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 21.3: RF Emissions, Conducted

Immunity

Designation

Description

IEC 61000-4-2, Ed. 2.0 (2008-12)	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-2 (2009)	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effect
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effects
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 15: Magnetic Effects
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input

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RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 16: Power Input
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spike
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spikes
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 17: Voltage Spikes
RTCA/DO-160B (1984)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160A (1980)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 18: Audio Frequency Conducted Susceptibility - Power Inputs
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 19: Induced Signal Susceptibility
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.4: RF Susceptibility, Conducted
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.4: RF Susceptibility, Conducted
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 20.4: RF Susceptibility, Conducted
RTCA/DO-160C (1989)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility

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RTCA/DO-160D (1997)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 22: Lightning Induced Transient Susceptibility
RTCA/DO-160F (2007)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)
RTCA/DO-160E (2004)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)
RTCA/DO-160G (2010)	Environmental Conditions and Test Procedures for Airborne Equipment - Section 25: Electrostatic Discharge (ESD)

MIL-STD

<u>Designation</u>	<u>Description</u>
MIL-STD-1275E (2006)	Characteristics of 28 Volt DC Input Power to Utilization Equipment in Military Vehicles
MIL-STD-1275C	Characteristics of 28 Volt DC Electrical Systems in Military Vehicle
MIL-STD-1275D	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles (Sections 5.3.2.2, 5.3.2.3, 5.3.2.4, 5.3.2.5)
MIL-STD-1275A	Characteristics of 28 Volts DC Electrical Systems in Military Vehicles
MIL-STD-1275A Notice 1	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles
MIL-STD-1275A Notice 2	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles
MIL-STD-1275B Notice 1	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles
MIL-STD-1275D	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles
MIL-STD-1275B (November 20, 1997)	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles
MIL-STD-1399 Section 070	Interface standard for shipboard systems, Section 070 - Part 1- DC Magnetic Field Environment
MIL-STD-1399-300-1	Interface Standard for Shipboard Systems: Low Voltage Electric Power, Alternating Current
MIL-STD 1399 Section 300A	Interface standard for Shipboard Systems: Electric Power, Alternating Current

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MIL-STD-1399 Section 300B	Interface Standard for Shipboard Systems: Electric Power, Alternating Current
MIL-STD-202G, Method 301	Dielectric Withstanding Voltage
MIL-STD-202G, Method 302	Insulation Resistance
MIL-STD-202G, Method 307	Contact Resistance
MIL-STD-202G, Method 310	Contact Chatter Monitoring
MIL-STD-704, (1959)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision A (August 9, 1966)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision B (November 17, 1975)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision C (December 30, 1977)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision D (September 30, 1980)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision E (May 1, 1992)	Aircraft Electrical Power Characteristics
MIL-STD-704, Revision F (March 12, 2004)	Aircraft, Electric Power Characteristics
DEF-STAN 59-411 Part 3 (2014)	Electromagnetic Compatibility Part 3: Test Methods and Limits for Equipment and Sub Systems <i>Radiated Emissions Electric and Magnetic Fields; Radiated Susceptibility Electric Field</i>
DEF-STAN 59-411 Part 3 (2019)	Electromagnetic Compatibility Part 3: Test Methods and Limits for Equipment and Sub Systems
DEF-STAN 61-5 Part 6 (2009)	Nominal 12 V and 24 V DC Electrical Systems in Military Platforms
DEF-STAN 59-41 Part 3, DCE01 (1995-10)	Conducted Emission on Primary Power Lines
DEF-STAN 59-41 Part 3, DCE03 (1995-10)	Exported Transients Power Lines
DEF-STAN 59-41 Part 3, DCS01 (1995-10)	Conducted Susceptibility, Primary Power Lines
DEF-STAN 59-41 Part 3, DCS02 (1995-10)	Conducted Susceptibility, Primary Control and Signal Lines

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DEF-STAN 59-41 Part 3, DCS03 (1995-10)	Conducted Susceptibility, Control and Signal Lines
DEF-STAN 59-41 Part 3, DCS04 (1995-10)	Imported Transient Susceptibility
DEF-STAN 59-41 Part 3, DCS05 (1995-10)	Externally Generated Transients
DEF-STAN 59-41 Part 3, DCS06 (1995-10)	Imported Long Transients Susceptibility AC/DC Systems
DEF-STAN 59-41 Part 3, DCS08 (1995-10)	Externally Generated Transients (Aircraft)
DEF-STAN 59-41 Part 3, DCS09 (1995-10)	Imported Lightning Transients Susceptibility (Aircraft)
DEF-STAN 59-41 Part 3, DCS10 (1995-10)	Electrostatic Discharge (Aircraft)
DEF-STAN 59-41 Part 3, DCS11 (1995-10)	Imported Long Transient Susceptibility - Power Lines (Sea Systems)
DEF-STAN 59-41 Part 3, DCS12 (1995-10)	Low Frequency Transient Susceptibility - Power Lines (Sea Systems)
DEF-STAN 59-41 Part 3, DMFS01 (1995-10)	Magnetostatic Field Susceptibility
DEF-STAN 59-41 Part 3, DRE02 (1995-10)	H Field Radiation
DEF-STAN 59-41 Part 3, DRE03 (1995-10)	Radiated Emissions Installed Antenna
DEF-STAN 59-41 Part 3, DRS02 (1995-10)	E Field Susceptibility

MIL-STD: Conducted Emissions

<u>Designation</u>	<u>Description</u>
MIL-STD-461G, CE101	Conducted Emissions, Power Leads, 30 Hz to 10 kHz
MIL-STD-461E, CE101	Conducted Emissions, Power Leads, 30 Hz to 10 kHz
MIL-STD-461F, CE101	Conducted Emissions, Power Leads, 30 Hz to 10 kHz
MIL-STD-461G, CE102	Conducted Emissions, Power Leads, 10 kHz to 10 MHz
MIL-STD-461E, CE102	Conducted Emissions, Power Leads, 10 kHz to 10 MHz

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MIL-STD-461F, CE102	Conducted Emissions, Power Leads, 10 kHz to 10 MHz
MIL-STD-461G, CE106	Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz
MIL-STD-461E, CE106	Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz
MIL-STD-461F, CE106	Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz
MIL-STD-462D, CE101	Conducted Emissions, Power Leads, 30 Hz to 10 kHz
MIL-STD-462D, CE102	Conducted Emissions, Power Leads, 10 kHz to 10 MHz
MIL-STD-462D, CE106	Conducted Emissions, Antenna Terminal, 10 kHz to 40 GHz

MIL-STD: Conducted Susceptibility

Designation

Description

MIL-STD-461G, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461E, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461F, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz
MIL-STD-461G, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461E, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461F, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-461G, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461E, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461F, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-461G, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461E, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461F, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-461F, CS106	Conducted Susceptibility, Transients, Power Leads
MIL-STD-461G, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz
MIL-STD-461E, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz
MIL-STD-461F, CS109	Conducted Susceptibility, Structure Current, 60 Hz to 100 kHz

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MIL-STD-461G, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
MIL-STD-461E, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
MIL-STD-461F, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz
MIL-STD-461G, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461E, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461F, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-461G, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461E, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461F, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461G, CS117	Conducted Susceptibility, Lightning Induced Transients, Cables and Power Leads
MIL-STD-461G, CS118	Personnel Borne Electrostatic Discharge (ESD)
MIL-STD-462D, CS101	Conducted Susceptibility, Power Leads, 30 Hz to 50 kHz
MIL-STD-462D, CS103	Conducted Susceptibility, Antenna Port, Intermodulation, 15 kHz to 10 GHz
MIL-STD-462D, CS104	Conducted Susceptibility, Antenna Port, Rejection of Undesired Signals, 30 Hz to 20 GHz
MIL-STD-462D, CS105	Conducted Susceptibility, Antenna Port, Cross-Modulation, 30 Hz to 20 GHz
MIL-STD-462D, CS109	Conducted Susceptibility, Structure Current, 60 HZ to 100 kHz
MIL-STD-462D, CS114	Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 400 MHz
MIL-STD-462D, CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation
MIL-STD-462D, CS116	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz

MIL-STD: Radiated Emissions

<u>Designation</u>	<u>Description</u>
MIL-STD-461G, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461E, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz

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MIL-STD-461F, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461G, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461E, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461F, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-461G, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-461E, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-461F, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz
MIL-STD-462D, RE101	Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-462D, RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz
MIL-STD-462D, RE103	Radiated Emissions, Antenna Spurious and Harmonic Outputs, 10 kHz to 40 GHz

MIL-STD: Radiated Susceptibility

<u>Designation</u>	<u>Description</u>
MIL-STD-461G, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461E, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461F, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-461G, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461E, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-461F, RS103	Radiated Susceptibility, Electric Field, 2 MHz to 40 GHz
MIL-STD-462D, RS101	Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz
MIL-STD-462D, RS103	Radiated Susceptibility, Electric Field, 10 kHz to 40 GHz

Accredited Test Methods in Support of FCC Approval Procedures

<u>Designation</u>	<u>Description</u>
ANSI C63.4 (2014)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200422-0

Dayton T. Brown, Inc.
Bohemia, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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 on ISO/IEC 17025).*

2025-11-20 through 2026-12-31

Effective Dates



A handwritten signature in blue ink, appearing to read "R. K. Knech".

For the National Voluntary Laboratory Accreditation Program