SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid to: August 31, 2027 Certificate Number: 4271.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the organization's compliance with A2LA's R256 Accreditation Program[1] requirements), accreditation is granted to this laboratory at the location listed above, ***as well as the three satellite locations listed below***, to perform the following Wireless and EMI tests:

Test:	**Test Method(s)[1,2]:**
Unintentional Radiators (Radiated measurements > 1 GHz up to 40 GHz only)	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-003 Issue 7:2020; ICES 001 Issue 5:2020; VCCI V-3 (up to 6 GHz)
RF Exposure (SAR) (up to 6 GHz)	IEEE Std. 1528:2013; BS EN 62209-1; IEC 62209-1; BS EN 62209-2; IEC 62209-2; RSS-102; RSS-102.SAR.MEAS; IEEE Std C95.3; IEC/IEEE 62209-1528
Intentional Radiators (up to 40 GHz)	
US (Unlicensed Devices and Licensed Devices)	CFR 47, FCC Part 15, Subpart C (using ANSI C63.10:2020); CFR 47, FCC Part 15, Subpart E (using ANSI C63.10:2020) (including DFS using FCC KDB 905462 D02 (v02)); CFR 47, FCC Part 15, Subpart D (using ANSI C63.17:2013); CFR 47, FCC Parts 22 (cellular), 24, 25 (below 3 GHz), 27 (using ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015); CFR 47, FCC Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz) (using ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015); CFR 47, FCC Part 95 (MBAN) (using ANSI C63.26:2015)

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Test:	**Test Method(s)[1,2]:**
Canada	RSS-GEN; RSS-119; RSS-130; RSS-132; RSS-133; RSS-139; RSS-170; RSS-199; RSS-210 (up to 40 GHz); RSS-213; RSS-247 (with and without DFS)
Wireless Coexistence	ANSI/USEMCSC C63.27; TIR69
Medical Safety Testing[3]	
Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	IEC 60601-1:2005+A1:2012+A2:2020; EN 60601-1: 2006, A1:2013+A2: 2021; CAN/CSA-C22.2 No. 60601-1:14+A2:2022; ANSI/AAMI ES60601-1:2005+A2:2010 (R2012)+A1:2012+A2:2021; IEC 60601-1; EN 60601-1; CAN/CSA-C22.2 No. 60601-1; ANSI/AAMI ES60601- 1
Collateral Standard: Radiation protection in diagnostic X-ray equipment	IEC 60601-1-3:2008+A1:2013+A2:2021; EN 60601-1-3:2008+A1:2013+A2:2021; CSA C22.2 No. 60601-1-3:09+A1:15 (R2019)+A2:22; IEC 60601-1-3; EN 60601-1-3; CSA C22.2 No. 60601-1-3
Alarm System	IEC 60601-1-8:2006+A1:2012+A2:2020; EN 60601-1-8:2007+A1:2013+A2:2021; CAN/CSA C22.2 No. 60601-1-8:08+A1:2014 (R2018)+A2:2021; ANSI/AAMI/IEC 60601-1-8:2006+A1:2012+A2:2021; IEC 60601-1-8; EN 60601-1-8; CAN/CSA C22.2 No. 60601-1-8; ANSI/AAMI/IEC 60601-1-8
Home healthcare equipment	IEC 60601-1-11:2015+A1:2020; EN 60601-1-11:2015+A1:2021; ANSI/AAMI HA60601-1-11:2015+A1:2021; CSA C22.2 No. 60601-1-11-15 (R2020)+A1-2021; IEC 60601-1-11; EN 60601-1-11; ANSI/AAMI HA60601-1-11; CSA C22.2 No. 60601-1-11
Emergency healthcare equipment	IEC 60601-1-12:2014+A1:2020; EN 60601-1-12:2015+A1:2020; CSA C22.2 No. 60601-1-12-15 (R2020)+A1:2021; ANSI/AAMI/IEC 60601-1-12:2016+A1:2021; IEC 60601-1-12; EN 60601-1-12; CSA C22.2 No. 60601-1-12; ANSI/AAMI/IEC 60601-1-12

Test:	**Test Method(s)[1,2]:**
Cardiac Defibrillators	IEC 60601-2-4:2010+A1:2018; EN 60601-2-4:2011+A1:2019; CAN/CSA-C22.2 No. 60601-2-4:12+A1:19 (R2021); ANSI/AAMI/IEC 60601-2-4:2010+A1:2018; IEC 60601-2-4; EN 60601-2-4; CAN/CSA-C22.2 No. 60601-2-4; ANSI/AAMI/IEC 60601-2-4
Baby Incubators	IEC 60601-2-19:2020+A1:2023; EN/IEC 60601-2-19:2021+A1:2023; CSA C22.2 No. 60601-2-19:23+A1:25; IEC 60601-2-19; EN IEC 60601-2-19; CSA C22.2 No. 60601-2-19
Infant Radiant Warmers	IEC 60601-2-21:2020+A1:2023; EN 60601-2-21:2021+A1:2023; CSA C22.2 No. 60601-2-21:23+A1:25; IEC 60601-2-21; EN 60601-2-21; CSA C22.2 No. 60601-2-21
Electrocardiographs	IEC 60601-2-25:2011; EN 60601-2-25:2015; CSA C22.2 No. 60601-2-25:12 (R2022); ANSI/AAMI/IEC 60601-2-25:2011/(R)2016; IEC 60601-2-25; EN 60601-2-25; CSA C22.2 No. 60601-2-25; ANSI AAMI IEC 60601-2-25
Electrocardiographic monitoring equipment	IEC 60601-2-27:2011; EN 60601-2-27:2014; CAN/CSA-C22.2 No. 60601-2-27:11 (R2021); ANSI/AAMI/IEC 60601-2-27:2011(R)2016; IEC 60601-2-27; EN 60601-2-27; CAN/CSA-C22.2 No. 60601-2-27; ANSI/AAMI/IEC 60601-2-27
Ultrasonic medical diagnostic and monitoring equipment	IEC 60601-2-37:2007+A1:2015; EN 60601-2-37:2008+A1:2015; CSA C22.2 No. 60601-2-37:08+A1:19 (R2023); IEC 60601-2-37; EN 60601-2-37; CSA C22.2 No. 60601-2-37
X-ray equipment for interventional procedures	IEC 60601-2-43:2010+A1:2017+A2:2019; EN 60601-2-43:2010+A1:2018+A2:2020; CSA-C22.2 NO. 60601-2-43:11+A1:19+A2:21 (R2021); IEC 60601-2-43; EN 60601-2-43; CAN/CSA C22.2 NO. 60601-2-43

Test:	**Test Method(s)[1,2]:**
Ambulatory electrocardiographic systems	IEC 60601-2-47:2012; EN 60601-2-47:2015; CAN/CSA-C22.2 No. 60601-2-47:14 (R2023); ANSI AAMI IEC 60601-2-47:2012/(R)2016; IEC 60601-2-47; EN 60601-2-47; CAN/CSA-C22.2 No. 60601-2-47; ANSI AAMI IEC 60601-2-47
Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	IEC 60601-2-54:2009+A1:2015+A2:2018; EN 60601-2-54:2009+A1:2015+A2:2019; CAN/CSA-C22.2 No. 60601-2-54:11+A1:17+A2:20; IEC 60601-2-54; EN 60601-2-54; CAN/CSA C22.2 No. 60601-2-54
Automatic cycling non-invasive blood pressure monitoring equipment	IEC 80601-2-30:2018; EN/IEC 80601-2-30:2019; CSA C22.2 No. 80601-2-30:19 (R2024); ANSI/AAMI/IEC 80601-2-30:2018; IEC 80601-2-30; EN IEC 80601-2-30; CSA C22.2 No. 80601-2-30; ANSI/AAMI/IEC 80601-2-30
Multifunction patient monitoring equipment	IEC 80601-2-49:2018+A1:2024; EN IEC 80601-2-49:2018+A1:2024; CSA C22.2 No. 80601-2-49:22; ANSI/AAMI MP 80601-2-49:2020; IEC 80601-2-49; EN IEC 80601-2-49; CSA C22.2 No. 80601-2-49; ANSI/AAMI MP 80601-2-49
Critical care ventilators	ISO 80601-2-12:2023; EN ISO 80601-2-12:2023; CSA C22.2 No. 80601-2-12:24; ISO 80601-2-12; EN ISO 80601-2-12; CSA C22.2 No. 80601-2-12
Pulse oximeter equipment	ISO 80601-2-61:2017; EN ISO 80601-2-61:2019 CSA C22.2 No. 80601-2-61:21; ISO 80601-2-61; EN ISO 80601-2-61; CSA C22.2 No. 80601-2-61
Safety requirements for electrical equipment for measurement, control, and laboratory use	IEC 61010-1:2010+A1:2016; EN 61010-1:2010+A1:2019; CAN/CSA-C22.2 No. 61010-1-12+A1:18 (R2022); ANSI UL 61010-1:2024; IEC 61010-1; EN 61010-1 ANSI UL 61010-1; CAN/CSA-C22.2 No. 61010-1-12
In vitro diagnostic (IVD) medical equipment	IEC 61010-2-101:2018; EN IEC 61010-2-101:2022; IEC 61010-2-101; EN IEC 61010-2-101

Test:	**Test Method(s)[1,2]:**
Automatic and semi-automatic laboratory equipment for analysis and other purposes	IEC 61010-2-081; EN IEC 61010-2-081
laboratory equipment for the heating of materials	IEC 61010-2-010; EN IEC 61010-2-010

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Test:	**Test Method(s)[1,2]:**
Unintentional Radiators (up to 40 GHz)	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-003 Issue 7:2020; ICES 001 Issue 5:2020; VCCI V-3 (up to 6 GHz)
Intentional Radiators (up to 40 GHz, Radiated measurements only)	
US (Unlicensed Devices and Licensed Devices)	CFR 47, FCC Part 15, Subpart C (using ANSI C63.10:2020); CFR 47, FCC Part 15, Subpart E (using ANSI C63.10:2020); CFR 47, FCC Parts 22 (cellular), 24, 25 (below 3 GHz), 27 (using ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, and/or ANSI C63.26:2015); CFR 47, FCC Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz) (using ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, and/or ANSI C63.26:2015); CFR 47, FCC Part 95 (MBAN) (using ANSI C63.26:2015)
Canada	RSS-GEN; RSS-119; RSS-130; RSS-132; RSS-133; RSS-139; RSS-170; RSS-199; RSS-210 (up to 40 GHz); RSS-247 (with and without DFS)
Medical - EMC[3]	
Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - requirements and tests	IEC 60601-1-2:2014; IEC 60601-1-2:2014+A1:2020; EN 60601-1-2:2015; EN 60601-1-2:2015+A1:2021; ANSI/AAMI/IEC 60601-1-2:2014; ANSI/AAMI/IEC 60601-1-2:2014+A1:2021; IEC 60601-1-2; EN 60601-1-2; ANSI/AAMI/IEC 60601-1-2

Test:	**Test Method(s)[1,2]:**
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	IEC 61326-2-6:2020; IEC 61326-2-6; EN IEC 61326-2-6:2021; EN IEC 61326-2-6
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	IEC 61326-1:2020; IEC 61326-1; EN IEC 61326-1:2021; EN IEC 61326-1
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CISPR 11:2015+A1:2016+A2:2019; EN 55011:2016+A11:2020; CISPR 11; EN 55011
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	CISPR 14-1:2020; EN IEC 55014-1:2021; CISPR 14-1; EN IEC 55014-1
Electromagnetic compatibility of multimedia equipment - Emission Requirements	CISPR 32:2015+AMD1:2019; EN 55032:2015+A1:2020; CISPR 32; EN 55032
Electromagnetic compatibility of multimedia equipment – Immunity Requirements	CISPR 35; EN 55035
Electromagnetic compatibility (EMC) -Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	IEC 61000-3-2:2018+A1:2020+A2:2024; EN IEC 61000-3-2:2019+A1:2021; IEC 61000-3-2; EN IEC 61000-3-2
Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection	IEC 61000-3-3:2013+A1:2017+A2:2021; EN 61000-3-3:2013+A2:2021+AC:2022; IEC 61000-3-3; EN 61000-3-3

Test:	**Test Method(s)[1,2]:**
Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	IEC 61000-3-11:2017; EN IEC 61000-3-11:2019; IEC 61000-3-11; EN IEC 61000-3-11
Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	IEC 61000-3-12:2011+A1:2021; EN 61000-3-12:2011+A1:2024; IEC 61000-3-12; EN 61000-3-12
Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	IEC 61000-4-2:2008; EN 61000-4-2:2009; IEC 61000-4-2; EN 61000-4-2
Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	IEC 61000-4-3:2020; EN IEC 61000-4-3:2020; IEC 61000-4-3; EN IEC 61000-4-3
Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	IEC 61000-4-4:2012; EN 61000-4-4:2012; IEC 61000-4-4; EN 61000-4-4
Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	IEC 61000-4-5:2014+A1:2017; EN 61000-4-5:2014+A1:2017; IEC 61000-4-5; EN 61000-4-5
Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6:2023; EN IEC 61000-4-6:2023; IEC 61000-4-6; EN IEC 61000-4-6
Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	IEC 61000-4-8:2009; EN 61000-4-8:2010; IEC 61000-4-8; EN 61000-4-8

Test:	**Test Method(s)[1,2]:**
Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	IEC 61000-4-11:2020; EN 61000-4-11:2020; IEC 61000-4-11; EN 61000-4-11
Electromagnetic compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test	IEC 61000-4-39:2017; IEC 61000-4-39; EN 61000-4-39:2017; EN 61000-4-39
Part 2: Electrical transient conduction along supply lines only	ISO 7637-2:2011; ISO 7637-2

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Test:	**Test Method(s)[1,2]:**
Unintentional Radiators Radiated and Conducted Emissions (up to 40 GHz)	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-003 Issue 7:2020; ICES 001 Issue 5:2020; VCCI V-3 (up to 6 GHz)
Medical - EMC[3]	
Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances - requirements and tests (*Excluding Proximity Magnetic Field Test*)	IEC 60601-1-2:2014; IEC 60601-1-2:2014+A1:2020; EN 60601-1-2:2015; EN 60601-1-2:2015+A1:2021; ANSI/AAMI/IEC 60601-1-2:2014; ANSI/AAMI/IEC 60601-1-2:2014+A1:2021; IEC 60601-1-2; EN 60601-1-2; ANSI/AAMI/IEC 60601-1-2
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment (*Excluding Proximity Magnetic Field Test*)	IEC 61326-2-6:2020; IEC 61326-2-6; EN IEC 61326-2-6:2021; EN IEC 61326-2-6
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	IEC 61326-1:2020; IEC 61326-1; EN IEC 61326-1:2021; EN IEC 61326-1

Test:	**Test Method(s)[1,2]:**
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CISPR 11:2015+A1:2016+A2:2019; EN 55011:2016+A11:2020; CISPR 11; EN 55011
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	CISPR 14-1:2020; EN IEC 55014-1:2021; CISPR 14-1; EN IEC 55014-1
Electromagnetic compatibility of multimedia equipment - Emission Requirements	CISPR 32:2015+AMD1:2019; EN 55032:2015+A1:2020; CISPR 32; EN 55032
Electromagnetic compatibility of multimedia equipment - Immunity Requirements	CISPR 35; EN 55035
Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	IEC 61000-3-2:2018+A1:2020+A2:2024; EN IEC 61000-3-2:2019+A1:2021; IEC 61000-3-2; EN IEC 61000-3-2
Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection	IEC 61000-3-3:2013+A1:2017+A2:2021; EN 61000-3-3:2013+A2:2021+AC:2022; IEC 61000-3-3; EN 61000-3-3
Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	IEC 61000-3-11:2017; EN IEC 61000-3-11:2019; IEC 61000-3-11; EN IEC 61000-3-11

Test:	**Test Method(s)[1,2]:**
Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	IEC 61000-3-12:2011+A1:2021; EN 61000-3-12:2011+A1:2024; IEC 61000-3-12:2011; EN 61000-3-12
Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	IEC 61000-4-2:2008; EN 61000-4-2:2009; IEC 61000-4-2; EN 61000-4-2
Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	IEC 61000-4-3:2020; EN IEC 61000-4-3:2020; IEC 61000-4-3; EN IEC 61000-4-3
Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	IEC 61000-4-4:2012; EN 61000-4-4:2012; IEC 61000-4-4; EN 61000-4-4
Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	IEC 61000-4-5:2014+A1:2017; EN 61000-4-5:2014+A1:2017; IEC 61000-4-5; EN 61000-4-5
Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6:2023; EN IEC 61000-4-6:2023; IEC 61000-4-6; EN IEC 61000-4-6
Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	IEC 61000-4-8:2009; EN 61000-4-8:2010; IEC 61000-4-8; EN 61000-4-8
Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	IEC 61000-4-11:2020; EN 61000-4-11:2020; IEC 61000-4-11; EN 61000-4-11

Test:	**Test Method(s)[1,2]:**
Unintentional Radiators Radiated and Conducted Emissions (up to 40 GHz)	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-003 Issue 7:2020; ICES 001 Issue 5:2020; VCCI V-3 (up to 6 GHz)
Medical - EMC[3]	
Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – requirements and tests (*Excluding Proximity Magnetic Field Test*)	IEC 60601-1-2:2014; IEC 60601-1-2:2014+A1:2020; EN 60601-1-2:2015; EN 60601-1-2:2015+A1:2021; ANSI/AAMI/IEC 60601-1-2:2014; ANSI/AAMI/IEC 60601-1-2:2014+A1:2021; IEC 60601-1-2; EN 60601-1-2; ANSI/AAMI/IEC 60601-1-2
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment (*Excluding Proximity Magnetic Field Test*)	IEC 61326-2-6:2020; IEC 61326-2-6; EN IEC 61326-2-6:2021; EN IEC 61326-2-6
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	IEC 61326-1:2020; IEC 61326-1 EN IEC 61326-1:2021; EN IEC 61326-1
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CISPR 11:2015+A1:2016+A2:2019; EN 55011:2016+A11:2020; CISPR 11; EN 55011
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	CISPR 14-1:2020; EN IEC 55014-1:2021; CISPR 14-1; EN IEC 55014-1
Electromagnetic compatibility of multimedia equipment - Emission Requirements	CISPR 32:2015+AMD1:2019; EN 55032:2015+A1:2020; CISPR 32; EN 55032
Electromagnetic compatibility of multimedia equipment - Immunity Requirements	CISPR 35; EN 55035

Test:	**Test Method(s)[1,2]:**
Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	IEC 61000-3-2:2018+A1:2020+A2:2024; EN IEC 61000-3-2:2019+A1:2021; IEC 61000-3-2; EN IEC 61000-3-2
Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection	IEC 61000-3-3:2013+A1:2017+A2:2021; EN 61000-3-3:2013+A2:2021+AC:2022; IEC 61000-3-3; EN 61000-3-3
Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	IEC 61000-4-2:2008; EN 61000-4-2:2009; IEC 61000-4-2; EN 61000-4-2
Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	IEC 61000-4-3:2020; EN IEC 61000-4-3:2020; IEC 61000-4-3; EN IEC 61000-4-3
Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	IEC 61000-4-4:2012; EN 61000-4-4:2012; IEC 61000-4-4; EN 61000-4-4
Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	IEC 61000-4-5:2014+A1:2017; EN 61000-4-5:2014+A1:2017; IEC 61000-4-5; EN 61000-4-5
Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	IEC 61000-4-6:2023; EN IEC 61000-4-6:2023; IEC 61000-4-6; EN IEC 61000-4-6
Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	IEC 61000-4-8:2009; EN 61000-4-8:2010; IEC 61000-4-8; EN 61000-4-8

Test:	**Test Method(s)[1,2]:**
Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	IEC 61000-4-11:2020; EN 61000-4-11:2020; IEC 61000-4-11; EN 61000-4-11
Part 2: Electrical transient conduction along supply lines only	ISO 7637-2:2011; ISO 7637-2

On the following types of products/equipment:
Medical Equipment

[1] 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.*

[2] 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.

[3] IEC 60601-1-6 specifies a process for a manufacturer to analyze, specify, design, verify and validate usability, as it relates to basic safety and essential performance of medical electrical equipment, and should not be considered its own test method.

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-5:1986	40000
Intentional Radiators Part 15C	ANSI C63.10:2020	40000
Unlicensed Personal Communication Systems Devices Part 15D	ANSI C63.17:2013	40000
U-NII without DFS Intentional Radiators Part 15E	ANSI C63.10:2020	40000

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)**
U-NII with DFS Intentional Radiators Part 15E	FCC KDB 905462 D02 (v02)	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
RF Exposure Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000

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.

Accredited Laboratory

A2LA has accredited

TUV RHEINLAND (INDIA) PVT. LTD.

Bengaluru, India

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 14th day of November 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4271.01
Valid to August 31, 2027

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