

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid to: May 31, 2019 Certificate Number: 0803.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Emissions, Immunity, Wireless, and Military tests for electrical equipment:

STANDARD	DESCRIPTION OF STANDARD
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AUSTRALIA / NEW Z	<u>XEALAND</u>
AS/NZS 61000-6-1	Electromagnetic Compatibility (EMC) Generic standard - Immunity for
	residential, commercial and light-industrial environments
AS/NZS 61000-6-2	Electromagnetic Compatibility (EMC) Generic standard - Immunity for
	industrial environments
AS/NZS 61000-6-3:	Electromagnetic Compatibility (EMC) Emission standard for residential,
2012	commercial and light-industrial environments
AS/NZS 61000-6-4:	Electromagnetic Compatibility (EMC) Emission standard for industrial
2012	environments
	AMCA Radiocommunications (Short Range Devices) Standard: 2014
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of
	measurement
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the
	frequency range 29.7 MHz to 1 GHz
AS/NZS CISPR 11:	Industrial, Scientific and Medical (ISM) Radio frequency equipment -
2011	Electromagnetic disturbance characteristics - Limits and methods of
	measurement
AS/NZS CISPR 14.1:	Electromagnetic compatibility - Requirements for household appliances, electric
2013	tools and similar apparatus - Emission [excluding clicks]
AS/NZS CISPR 14.2	Electromagnetic compatibility - Requirements for household appliances electric
	tools and similar apparatus - Immunity
AS/NZS CISPR 22:	Information technology equipment - Radio disturbance characteristics - Limits
2009 + A1	and methods of measurement
AS/NZS CISPR 25	Vehicles, boats and internal combustion engines - Radio disturbance
	characteristics - Limits and methods of measurement for the protection of on-
	board receivers
AS/NZS CISPR 32:	Electromagnetic compatibility of multimedia equipment – Emission
2015	Requirements

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STANDARD	<u>DESCRIPTION OF STANDARD</u>
CANADA	
CANADA	Industrial Cainstiffs and Madical (ICM) and information
ICES 001	Industrial, Scientific and Medical (ISM) radio frequency generators
ICES 003	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES 004	Alternating current high voltage power systems
ICES 005	Radio frequency lighting devices
ICES 006 RSS-102	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [except SAR]
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz
RSS-112	Land mobile and fixed equipment operating in the band (1670 to 1675) MHz
RSS-117	Land and coast station transmitters using A1, A2, A3, A2H, or A3H emissions operating in the (200 to 535) KHz band
RSS-119	Land mobile and fixed radio transmitters and receivers (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Land mobile and fixed radio transmitters and receivers (1.705 to 50.0) MHz, primarily amplitude modulated
RSS-127	Air-Ground Equipment Operating in the Bands (849 to 851) MHz and (894 to 896) MHz
RSS-130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands (698 to 756) MHz and (777 to 787) MHz
RSS-131	Zone enhancers for the land mobile service
RSS-132	800 MHz Cellular telephones employing new technologies
RSS-133	2 GHz Personal communication services
RSS-134	900 MHz Narrowband personal communications services
RSS-135	Digital scanner receivers
RSS-137	Location and monitoring service (902 to 928) MHz
RSS-139	Advanced wireless services equipment operating in the bands (1710 to 1755) MHz and (2110 to 2155) MHz
RSS-140	Equipment operating in the public safety broadband frequency bands (758 to 768) MHz and (788 to 798) MHz
RSS-141	Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz
RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands
RSS-170	Satellite mobile earth stations
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers operating in the (1,605 to 28,000) KHz band
RSS-182	Maritime Radio Transmitters and Receivers in the Band (156 to 162.5) MHz
RSS-191	Local multipoint communication systems in the 28 GHz band, point-to-point and point-to-multipoint broadband communication systems in the 24 GHz and 38 GHz bands
RSS-192	Fixed wireless access equipment operating in the band (3450 to 3650) MHz
RSS-194	Fixed wireless access equipment operating in the band (953 to 960) MHz
RSS-195	Wireless communications service equipment operating in the bands (2305 to 2320) MHz and (2345 to 2360) MHz

STANDARD	DESCRIPTION OF STANDARD
CANADA (cont.)	
RSS-196	Point-to-Multipoint Broadband Equipment Operating in the Bands (512 to 608) MHz and (614 to 698) MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197	Wireless Broadband Access Equipment Operating in the Band (3650 to 3700) MHz
RSS-199	Broadband Radio Service (BRS) Equipment Operating in the Band (2500 to 2690) MHz
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt Personal Communications Service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices Using Ultra-Wideband (UWB) Technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General Radio Service Equipment Operating in the Band
	(26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands
RSS-243	Active medical implant communications system devices in the
	(402 to 405) MHz band
RSS-244	Medical Devices Operating in the Band (413 to 457) MHz
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and
	License-Exempt Local Area Network (LE-LAN) Devices (excluding DFS)
RSS-251	Field disturbance sensors in the bands (46.7 to 46.9) GHz and (76 to 77) GHz
RSS-252	Intelligent transportation systems – dedicated short range communications (DSRC) – on-board unit (OBU)
RSS-287	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)
RSS-288	Global Maritime Distress and Safety System (GMDSS)
RSS-310	Low-power license exempt radio communication devices (All frequency bands) Category II equipment
RSS-GEN	General requirements and information for the certification of radio communication equipment
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors Emission
EN 12016	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Immunity
EN 12184	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [Section 9.8 Only]
EN 13763-26	Explosives for civil uses – Detonators and relays – Part 26
EN ISO 14982	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria
EN 15194	Cycles – Electrically power assisted cycles – EPAC Bicycles

EUROPEAN UNION (cont.) EN 50065-1 Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) KHz - Part 1 General requirements, frequency bands and electromagnetic disturbances EN 50065-2-1, 2, 3 Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) KHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz EN 50083-2 Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment EN 50121-1 Railway applications - Electromagnetic compatibility - Part 1 General EN 50121-3-2 Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus EN 50130-4 Alarm systems - Part 4 Electromagnetic compatibility - Product family standar - Immunity requirements for components of fire, intruder and social alarm systems ENV 50204 Radiated electromagnetic field from digital radio telephones - immunity test (900MHz and 5MHz Keyed Carrier) EN 50370-1 Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions EN 50370-2 Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions EN 50498 Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement EN 55014-1 Electromagnetic compatibility - Requirements for household appliances, electricols and similar apparatus - Part 1 Emission [excluding clicks] EN 55014-1 Electromagnetic compatibility - Requirements for household appliances, electricols and similar apparatus - Part 1 Emission [excluding clicks] EN 55015 Limits and methods of measurement for household appliances, electricols and simila	<u>STANDARD</u>	DESCRIPTION OF STANDARD
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EN 55022 Information technology equipment - Radio disturbance characteristics - Limits	EN 33020	
	FN 55022	
and methods of measurement	Lit 55044	
EN 55024 Information technology equipment - Immunity characteristics - Limits and	EN 55024	
methods of measurement		
	EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity		
requirements		

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 55103-1	Electromagnetic compatibility - Product family standard for audio, video, audio-
	visual and entertainment lighting control apparatus for professional use -
	Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-
	visual and entertainment lighting control apparatus for professional use –
ENT (0(01 1 2	Immunity Part 2 G 1 1 2 G 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EN 60601-1-2	Medical electrical equipment - Part 1-2 General requirements for safety -
ENT (0(01 2 2	Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of
ENI (0(01 2 4	high frequency surgical equipment
EN 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of
ENI (0(01 2 10	cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2-10 Particular requirements for the safety of
ENI (0(01 2 12	nerve and muscle stimulators [EMC sections only]
EN 60601-2-12	Medical electrical equipment - Part 2-12 Particular requirements for the safety of
ENL (0(01 2 22	lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2-22 Particular requirements for the safety of
EN (0(01 2 24	diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of
EN 60601-2-26	infusion pumps and controllers [EMC sections only] Part 2-26: Particular requirements for the basic safety and essential performance
EN 00001-2-20	of electroencephalographs
EN 60601-2-34	Medical electrical equipment - Part 2-34 Particular requirements for the safety,
EN 00001-2-34	including essential performance, of invasive blood pressure monitoring
	equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the safety of
LIV 00001-2-37	ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the basic
E11 00001 2 17	safety and essential performance of ambulatory electrocardiographic systems
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic
E11 00001 2 02	safety and essential performance of high intensity therapeutic ultrasound (HITU)
	equipment
EN 60730-1	Automatic electrical controls for household and similar use - Part 1 General
21.007201	requirements [EMC Sections Only]
EN 60730-2-5 thru 9,	Automatic electrical controls for household and similar use - Part 2 Particular
11, 13, 14, 18	requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General
	requirements - Methods of testing and required test results
EN 60974-10	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC)
	requirements
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for
	harmonic current emissions (equipment input current ≤16 A per phase)
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of
	voltage fluctuations and flicker in low-voltage supply systems for equipment
	with rated current $\leq 16 \text{ A}$
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement
	techniques - Electrostatic discharge immunity test

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement
	techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement
	techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement
	techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement
	techniques - Immunity to conducted disturbances, induced by radio-frequency
	fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8 Testing and measurement
	techniques - Section 8 Power frequency magnetic field immunity test basic EMC
	publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11 Testing and measuring
	techniques - Section 11 Voltage dips, short interruptions and voltage variations
	immunity tests
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques
	- Section 13 Harmonics and interharmonics including mains signaling at a.c.
	power port, low frequency immunity tests
EN 61000-4-21	Electromagnetic compatibility (EMC). Testing and measurement techniques.
	Reverberation chamber test methods [excluding sections 6.2, 6.3 and Annexes E,
	F, G, and H]
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for
21, 01000 0 1	residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards - Immunity for
E11 01000 0 2	industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential,
E11 01000 0 3	commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial
LIV 01000-0-4	environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections
EN 01131-2	only]
EN 61204-3	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility
EN 01204-3	(EMC)
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC
EN 01320-1	
EN (1226 2 1 4 m. 6	requirements - Part 1 General requirements
EN 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2 Particular requirements - Test configurations, operational
ENI (1547	conditions and performance criteria
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 61850-3	Communication Networks and Systems in Substations
ENI (2040 2	[excluding 5.7.1.3 and 5.7.3]
EN 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility
ENI (2061	(EMC) requirements
EN 62061	Safety of machinery – functional safety of safety related electrical, electronic &
ENT (2222	programmable control systems [section 6.4.3, ref Annex E]
EN 62233	Measurement methods for electromagnetic fields of household appliances and
	similar apparatus with regard to human exposure.

STANDARD	DESCRIPTION OF STANDARD
EUDADEAN UNIA	ON (cont)
EUROPEAN UNIO EN 62311	Assessment of electronic and electrical equipment related to human exposure
EN 02311	restrictions for electromagnetic fields (0Hz to 300GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment
EN 02479	with the basic restrictions related to human exposure to electromagnetic fields
	(10 MHz to 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF
	connector intended primarily for analogue speech; Harmonised Standard
	covering the essential requirements of article 3.2 of the Directive 2014/53/EU
EN 300 086-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land
	mobile service - Radio equipment with an internal or external RF connector
	intended primarily for analogue speech
EN 300 113-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land
	mobile service - Radio equipment intended for the transmission of data (and/or
	speech) using constant or non-constant envelope modulation and having an
	antenna connector
EN 300 219-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land
	mobile service - Radio equipment transmitting signals to initiate a specific
	response in the receiver
EN 300 220-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short
	Range Devices (SRD) - Radio equipment to be used in the (25 to 1000) MHz
	frequency range with power levels ranging (up to 500) mW
EN 300 224-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - On-site
	paging service
EN 300 328	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wideband
	transmission systems - Data transmission equipment operating in the 2.4 GHz
	ISM band and using spread spectrum modulation techniques
EN 300 330-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
	Range Devices (SRD) - Radio equipment in the frequency range
	(9 KHz to 25 MHz) and inductive loop systems in the frequency range
	(9 KHz to 30 MHz)
EN 300 386	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
	Telecommunication network equipment - Electromagnetic Compatibility (EMC)
	requirements
EN 300 422-1	Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A Receivers
EN 300 422-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireless
	microphones in the (25 MHz to 3 GHz) frequency range
EN 300 433-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land
	mobile service - Double Side Band (DSB) and/or Single Side Band (SSB)
	amplitude modulated citizen's band radio
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
	range devices - Radio equipment to be used in the (1 to 40) GHz frequency range
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band
	audio links
EN 301 357-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Cordless
	audio devices in the range (25 to 2,000) MHz - Consumer radio microphones and
	in-ear monitoring systems operating in the CEPT harmonized band
	(863 to 865) MHz

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	(cont.)
EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
E1(301 10) 1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services
	- Part 1 Common technical requirements
EN 301 489-2 thru	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
35, 50	Electromagnetic Compatibility (EMC) standard for radio equipment and services
	Parts 2-34, specific conditions
EN 301 502	Harmonized EN for Global System for Mobile communications (GSM) - Base
	Station and Repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital
	wireless microphones operating in the CEPT harmonized band
EN 201 002	(1785 to 1,800) MHz
EN 301 893	Broadband Radio Access Networks (BRAN) - 5 GHz high performance RLAN
EN 301 908-1 thru 22	[except DFS testing] Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Base
EIN 301 906-1 uii u 22	Stations (BS) and Repeaters for IMT-2000 Third-Generation cellular networks
	[-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20 & -22]
EN 302 064-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireless
21,302,001,2	Video Links (WVL) operating in the (1.3 to 50) GHz frequency band
EN 302 065	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Ultra
	WideBand (UWB) technologies for communication purposes
EN 302 066-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Ground-
	and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-
	AMI) and accessories (ULP-AMI-P) operating in the frequency range (9 to 315)
	KHz
EN 302 195-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio
	equipment in the frequency range (9 to 315) KHz for Ultra Low Power Active
EN 302 208-2	Medical Implants (ULP-AMI) and accessories Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Radio
EN 302 208-2	Frequency Identification Equipment operating in the band (865 to 868) MHz
	with power levels (up to 2) W
EN 302 291-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
E1(302 2)1 2	Range Devices (SRD) - Close Range Inductive Data Communication equipment
	operating at 13.56 MHz
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2:
	Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3:
	Multipoint Radio Antennas
EN 302 500-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short
	Range Devices (SRD) using Ultra WideBand (UWB) technology - location
EN 202 503	tracking equipment operating in the frequency range from (6 to 8.5) GHz
EN 302 502	Broadband Radio Access Networks (BRAN) - 5.8 GHz fixed broadband data
EN 202 645	transmitting systems
EN 302 645	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range
	Devices; Global Navigation Satellite Systems (GNSS) Repeaters

STANDARD	DESCRIPTION OF STANDARD
	
EU DIRECTIVES	
EU Regulation No	EU Regulation on the approval and market surveillance of agricultural and
167/2013	forestry vehicles
EU Directive	EU Directive establishing a framework for the approval of motor vehicles and
2007/46/EC	their trailers, and of systems, components and separate technical units intended
	for such vehicles
EU Regulation No	EU Regulation on the approval and market surveillance of two- or three-wheel
168/2013	vehicles and quadricycles
EU Regulation No	EU Regulation concerning type-approval requirements for the general safety of
661/2009	motor vehicles, their trailers and systems, components and separate technical
	units intended therefor
<u>UNITED NATIONS</u>	
UN/ECE Addendum	Concerning the Adoption of Uniform Technical Prescription for Wheeled
9 Reg 10	Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled
UN/ECE Addendum	Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted
9 Reg 10 Rev 5	on the Basis of these Prescriptions.
UN/ECE Addendum	
9 Reg 10 Rev 4+A1	Uniform Provisions Concerning the Approval of Vehicles with regard to
UN/ECE Addendum	Electromagnetic Compatibility
9 Reg 10 Rev 4	
IMDA SINGAPORE	
IMDA TS CT-CTS	Technical specification for cordless telephone and cordless telecommunication
	systems [excluding dect and phs]
IMDA TS SRD	Technical specification for short range devices
IMDA TS AR	Technical specification for amateur radio equipment
IMDA TS WBA	Technical specification for wireless broadband access (WBA) equipment
IMDA TS LMR	Technical specification for land mobile radio equipment
IMDA TS CBS	Technical specification for cellular base station and repeater system
IMDA TS UWB	Technical specification for ultra-wideband (UWB) devices
IMDA TS GMPCS	Technical specification for global mobile personal communication by satellite
	(GMPCS) terminals
<u>INTERNATIONAL</u>	
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment -
	Electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 13	Sound and television broadcast receivers and associated equipment - Radio
	disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric
CISPR 14-2	
CISPR 15	
CISPR 14-2 CISPR 15	tools and similar apparatus - Part 1 Emission [excluding clicks] Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity-Product Family Standard Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

STANDARD	DESCRIPTION OF STANDARD
INTEDNIATIONAL	agent)
<u>INTERNATIONAL (</u> CISPR 20	Sound and television broadcast receivers and associated equipment - Immunity
CISPR 20	* *
CISPR 22	characteristics - Limits and methods of measurement [excluding section 5.8]
CISPR 22	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
CICDD 24	
CISPR 24	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 25	
CISPR 23	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement
CISPR 25	[excluding section 5 and 6.5]
(2008)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement
(2008) (2002+COR1:2004)	[excluding section 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Emission requirements Electromagnetic compatibility of multimedia equipment - Immunity requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2	Medical electrical equipment - Part 1 General requirements for safety 2 -
IEC 00001-1-2	Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of
IEC 00001-2-2	high frequency surgical equipment
IEC 60601-2-10	Medical electrical equipment - Part 2-10 Particular requirements for the safety of
IEC 00001-2-10	nerve and muscle stimulators [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of
ILC 00001-2-24	infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
ILC 00001 2 20	of electroencephalographs
IEC 60601-2-34	Medical electrical equipment – Part 2-34: Particular requirements for the basic
120 00001 2 3 .	safety and essential performance of invasive blood pressure monitoring
	equipment
IEC 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the basic
	safety and essential performance of ultrasonic medical diagnostic and monitoring
	equipment
IEC 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the safety,
	including essential performance, of ambulatory electrocardiographic systems
IEC 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic
	safety and essential performance of high intensity therapeutic ultrasound (HITU)
	equipment
IEC 60945	Maritime navigation and radio communication equipment and systems - General
	requirements - Methods of testing and required test results
IEC 60974-10	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC)
	requirements
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for
	harmonic current emissions (equipment input current ≤16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of
	voltage fluctuations and flicker in low-voltage supply systems for equipment
	with rated current $\leq 16 \text{ A}$

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (c	ont.)
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement
	techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement
	techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement
	techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement
	techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement
	techniques - Immunity to conducted disturbances, induced by radio-frequency
	fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement
	techniques - Section 8 Power frequency magnetic field immunity test basic EMC
	publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 testing and measuring techniques -
	Section 11 Voltage dips, short interruptions and voltage variations immunity
TEG (1000 4 12	tests Plant Control of the control o
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement
	techniques - Harmonics and interharmonics includingmains signalling at a.c.
IEC (1000 4 21	power port, low frequency immunity tests
IEC 61000-4-21	Electromagnetic compatibility (EMC). Testing and measurement techniques.
	Reverberation chamber test methods [excluding sections 6.2, 6.3 and Annexes E, F, G, and H]
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for
1EC 01000-0-1	residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for
1LC 01000-0-2	industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions
120 01000 0 5	standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for
120 01000 0 .	residential, commercial, and light-industrial environments
IEC 61131-2	Programmable controllers Part 2: Equipment requirements and tests
	[EMC sections only]
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 1 General requirements
IEC 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2 Particular requirements - Test configurations, operational
	conditions and performance criteria
IEC 61326-3-1, 2	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 3 Immunity requirements for safety-related systems and for
	equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61850-3	Communication Networks and Systems in Substations
	[excluding 5.7.1.3 and 5.7.3]

STANDARD	DESCRIPTION OF STANDARD
<u>INTERNATIONAL</u>	(cont)
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems (note: only capable of performing EMC testing for section 6.4.3, ref Annex E)
IEC 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
IEC 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
IEEE 1613	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations
ISO	
ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only
ISO 10605 ISO 10605: 2008 ISO 10605: 2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge
ISO 11452-2	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 Absorber-lined shielded enclosure
ISO 11452-4 ISO 11452-4: 2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods (<i>BCI method only</i>)
ISO 11452-4: 2005 ISO 11452-4: 2001	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 Bulk current injection (BCI)
ISO 11452-5	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline
ISO 11452-8 ISO 11452-8: 2015 ISO 11452-8: 2007	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8 Immunity to magnetic fields
ISO 11452-10	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10 Immunity to conducted disturbances in the extended audio frequency range
ISO 13766	Earth-moving machinery - Electromagnetic compatibility
ISO 14982	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
JAPAN	
VCCI V-3 (up to 6 GHz)	Technical Requirements [Note: 5 meter or less test distance]
VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment – Emission Requirements

STANDARD	DESCRIPTION OF STANDARD		
SAE			
SAE J551-1	Performance levels and methods of measurement of electromagnetic		
	compatibility of vehicles, boats (up to 15) m, and machines (16.6 Hz to 18 GHz)		
SAE J551-2	Test limits and methods of measurement of radio disturbance characteristics of		
	vehicles, motorboats, and spark-ignited engine-driven devices		
SAE J551-4	Test limits and methods of measurement of radio disturbance characteristics of		
	vehicles and devices, broadband and narrowband, (150 KHz to 1000 MHz)		
SAE J551-5	Performance levels and methods of measurement of magnetic and electric field		
	strength from electric vehicles, broadband, (9 KHz to 30 MHz)		
SAE J551-11	Vehicle electromagnetic immunity - off-vehicle source		
SAE J551-12	Vehicle electromagnetic immunity - on-board transmitter simulation		
SAE J551-13	(R) Vehicle electromagnetic immunity - bulk current injection		
SAE J551-15	Performance level and methods of measurement of electromagnetic		
	compatibility of vehicles, boats (up to 15) m, and machines (50 Hz to 15 GHz)		
	Part 15 vehicle electromagnetic immunity - electrostatic discharge (ESD)		
SAE J551-17	(R) Vehicle electromagnetic immunity - power line magnetic fields		
SAE J1113-2	Electromagnetic compatibility measurement procedures and limits for vehicle		
	components (except aircraft) - conducted immunity (15 Hz to 250) KHz - all		
	leads		
SAE J1113-4	Immunity to radiated electromagnetic fields - Bulk current injection (BCI)		
SAE J1113-4: 2014	method		
SAE J1113-4: 2004			
SAE J1113-12	Electrical interference by conduction and coupling - capacitive and inductive		
	coupling via lines other than supply lines		
SAE J1113-13	Electromagnetic compatibility measurement procedure for vehicle components -		
SAE J1113-13: 2015	immunity to electrostatic discharge		
SAE J1113-13: 2011			
SAE J1113-13: 2004			
SAE J1113-21	Electrical interference by conduction and coupling - coupling clamp and		
CAE 11112 22	chattering relay		
SAE J1113-22	Electromagnetic compatibility measurement procedure for vehicle components -		
CAE II 112 41	immunity to radiated magnetic fields		
SAE J1113-41	Limits and methods of measurement of radio disturbance characteristics of		
SAE J1455	components and modules for the protection of receivers used on board vehicles		
	Joint SAE/TMC recommended environmental practices for electronic equipment		
CAE 11752 2	design (heavy-duty trucks), [Sections: 4.13.1, 4.13.2 and 4.13.3]		
SAE J1752-2	Measurement of radiated emissions from integrated circuits - surface scan		
	method (loop probe method) (10 MHz to 3 GHz)		
TAIWAN			
LP0002	Low-power Radio-frequency Devices Technical Regulations [excluding DFS]		
	and SAR]		

STANDARD	DESCRIPTION OF STANDARD	
STITIO	BESCHI TIOT OF STIRVERINE	
UNITED STATES		
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	
47 CFR PART 11	Emergency alert system (EAS)	
47 CFR PART 15	Radio frequency devices [excluding 15E DFS]	
47 CFR PART 18	Industrial, scientific and medical equipment	
47 CFR PART 20;	Commercial mobile services	
FCC KDB 935210		
D03 (v04);		
FCC KDB 935210		
D04 (v02);		
FCC KDB 935210		
D05 (v01r01)		
47 CFR PART 22	Public mobile services	
47 CFR PART 24	Personal communications services	
47 CFR PART 25	Satellite communications	
47 CFR PART 27	Miscellaneous wireless communication services	
47 CFR PART 73	Radio broadcast services	
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program	
	distributional services	
47 CFR PART 80	Stations in the maritime services	
47 CFR PART 87	Aviation services	
47 CFR PART 90	Private land mobile radio services	
47 CFR PART 95	Personal radio services	
47 CFR PART 96	Citizens broadband radio services	
47 CFR PART 97	Amateur radio services	
47 CFR PART 101	Fixed microwave services	
ANSI C63.26	Standard for Compliance Testing of Transmitters Used in Licensed Radio	
	Services	
ANSI RESNA WC	Electrically powered wheelchairs, scooters and their chargers - requirements and	
VOL.2	test methods [Section 21 only]	
DO 160	Environmental conditions and test procedures of airborne equipment.	
A/B/C/D/E/F/G	[Sections: 15-22 & 25]	
MIL-STD-461A/B/C,	Electromagnetic emission and susceptibility requirements for the control of	
MIL-STD-462	electromagnetic interference:	
	[Emissions tests sections: CE01-07, RE01-03]	
	[Susceptibility tests: CS01-12, RS01-03, RS06]	
MIL-STD-461D/E/F	Electromagnetic emission and susceptibility requirements for the control of	
	electromagnetic interference:	
	[Emissions tests sections: CE101, CE102, & CE106, RE101-103]	
	[Susceptibility tests: CS101, CS103, CS104, CS105, CS106, CS109, CS114,	
	CS115, CS116, RS101, RS103]	

STANDARD	DESCRIPTION OF STANDARD			
<u>UNITED STATES (cont.)</u>				
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference:			
	[Emissions tests: CE101, CE102, CE106, RE101-103]			
	[Susceptibility tests CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118, RS101, RS103]			
ANSI C63.4:2003	American National Standard for Methods of Measurement of Radio-Noise			
	Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of (9 kHz to 40 GHz)			
ANSI C63.4:2009	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of (9 kHz to 40 GHz)			
ANSI C63.4:2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of (9 kHz to 40 GHz)			
ANSI C63.10:2013	American national standard for testing unlicensed wireless devices			
ANSI C63.17:2013	American National Standard for Methods of Measurement of the			
	Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices			
FCC MP-5 (1986)	Methods of Measurements of Radio Noise Emissions from Industrial, Scientific and Medical equipment			
ANSI/TIA 603D;	Land Mobile FM or PM Communications Equipment Measurement and			
TIA-102.CAAA-D	Performance Standards.			
<u>VIETNAM</u>				
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement			
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement			

Testing Activities Performed in Support of FCC Declaration of Conformity and 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			
Unintentional Radiators	T	1			
Part 15B	ANSI C63.4:2014	220 GHz			
	Industrial, Scientific, and Medical Equipment				
Part 18	FCC MP-5 (February 1986)	220 GHz			
Intentional Radiators					
Part 15C	ANSI C63.10:2013	220 GHz			
Unlicensed Personal Communication Systems D	evices				
Part 15D	ANSI C63.17:2013	220 GHz			
U-NIII without DFS Intentional Radiators					
Part 15E	ANSI C63.10:2013	220 GHz			
UWB Intentional Radiators					
Part 15F	ANSI C63.10:2013	220 GHz			
BPL Intentional Radiators					
Part 15G	ANSI C63.10:2013	220 GHz			
White Space Device Intentional Radiators					
Part 15H	ANSI C63.10:2013	220 GHz			
Commercial Mobile Services (FCC Licensed Ra	dio Service Equipment)				
Parts 22 (cellular), 24, 25 (non-microwave),	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
and 27	,				
General Mobile Radio Services (FCC Licensed I	Radio Service Equipment)				
Parts 22 (non-cellular), 90 (non-microwave),	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
95, 97, and 101 (non-microwave)	,				
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)					
Part 96	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Maritime and Aviation Radio Services	,	•			
Parts 80 and 87	ANSI/TIA-603-D	220 GHz			
Microwave and Millimeter Bands Radio Service					
Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Broadcast Radio Services					
Parts 73 and 74 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Turis (o uris (rich micro)					
Signal Boosters					
Part 20	FCC KDB 935210 D03 (v04);	220 GHz			
(Wideband Consumer Signal Boosters,	FCC KDB 935210 D04 (v02);				
Provider-specific	FCC KDB 935210 D05 (v01r01)				
signal boosters, and Industrial Signal	` ′				
Boosters)					

Notes:

- 1. Limitations for listed standards are indicated by square brackets.
- 2. Scope excludes protocol sections of applicable standards.
- 3. Scope includes references to basic standards or test methods specified within the governing standard; consequently, the basic standard references need not be identified on this scope document.
- 4. Excluding SAR, HAC and DFS where applicable.





Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Bothell, WA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005

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 8 January 2009).

SEAL MENTON TO CREDITATION OF THE PROPERTY OF

Presented this 28th day of March 2017.

President and CEO

For the Accreditation Council Certificate Number 0803.05

Valid to May 31, 2019 Revised March 7, 2019