

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid to: March 31, 2019 Certificate Number: 0803.06

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
AUSTRALIA / NEW Z	<u>ZEALAND</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 standards immunity for industrial environments
AS/NZS 61000-6-3: 2012	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000-6-4: 2012	Electromagnetic Compatibility (EMC) Emission standard for industrial 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: 2011	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 14.1: 2013	Electromagnetic compatibility - Requirements for household appliances, electric 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: 2009 + A1	Information technology equipment - Radio disturbance characteristics - Limits 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 onboard receivers
AS/NZS CISPR 32 2015	Electromagnetic compatibility of multimedia equipment – Emission Requirements

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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 (788-798) 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-131	
RSS-134 RSS-135 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 (788-798) 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-132	
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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-140	Equipment operating in the public safety broadband frequency bands (758 to
Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands	RSS-141	Aeronautical radio communication equipment in the frequency
	RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and
	RSS-170	Satellite mobile earth stations



STANDARD	DESCRIPTION OF STANDARD
<u>CANADA (cont.)</u>	
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers
	operating in the (1,605 to 28,000) KHz band
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
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



STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and
EN 12013	passenger conveyors - Emission
EN 12016	Electromagnetic compatibility - Product family standard For lifts, escalators and
LIV 12010	passenger conveyors - Immunity
EN 12184	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements
LIV 12101	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
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 3-2: Rolling stock -
	Apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4: Emission and
	immunity of the signaling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard
	- Immunity requirements for components of fire, intruder and social alarm
	systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test
	(900 MHz and 5 MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and
T2 7 7 2 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic Compatibility (EMC) - Product family standard for machine
EN 50250 2	tools - Part 1: Emissions
EN 50370-2	Electromagnetic Compatibility (EMC) - Product family standard for machine
EN 50400	tools - Part 2: Immunity
EN 50498	Electromagnetic Compatibility (EMC) - Product family standard for aftermarket
EN 55011	electronic equipment in vehicles
EN 33011	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio
EN 55013	disturbance characteristics - Limits and methods of measurement
EN 33013	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric
LIN 33014-1	tools and similar apparatus - Part 1: Emission [excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric
L14 JJU17-2	tools and similar apparatus - Part 2: Immunity - Product family standard
	1 word and similar apparatus - 1 art 2. minimity - Froduct family standard



<u>STANDARD</u>	DESCRIPTION OF STANDARD
EUDADE AN UNU	ON (court)
EUROPEAN UNIO EN 55015	Limits and methods of measurement of radio disturbance characteristics of
EN 33013	
EN 55020	electrical lighting and similar equipment
EN 55020	Sound and television broadcast receivers and associated equipment - Immunity
EN 55022	characteristics - Limits and methods of measurement [excluding section 5.8]
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits
EN 55024	and methods of measurement
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment – Emission
EN 33032	
EN 55035	requirements
EN 33033	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 55103-1	Electromagnetic compatibility - Product family standard for audio, video, audio-
EN 33103-1	visual and entertainment lighting control apparatus for professional use -
	Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-
EN 33103-2	visual and entertainment lighting control apparatus for professional use -
	Immunity
EN 60601-1-2	Medical electrical equipment - Part 1-2: General requirements for safety -
EN 00001-1-2	Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment – Part 2-2: Particular requirements for the safety of
EN 00001-2-2	high frequency surgical equipment
EN 60601-2-4	Medical electrical equipment - Part 2-4: Particular requirements for the safety of
LIV 00001-2-4	cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety
E14 00001 2 10	of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12	Medical electrical equipment - Part 2-12: Particular requirements for the safety
E1 (00001 E 12	of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety
211 00001 2 22	of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24: Particular requirements for the safety
21,00001 2 2 .	of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
	of electroencephalographs
EN 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the safety,
	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 ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic
	safety and essential performance of ambulatory electrocardiographic systems
	[EMC sections only]
EN 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
EN 60730-1	Automatic electrical controls for household and similar use - Part 1: General
	requirements [EMC Sections Only]



STANDARD	DESCRIPTION OF STANDARD
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EUROPEAN UNION	
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 ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
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 4-13 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards - Immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]
EN 61204-3	Low voltage power supplies, DC output - Part 3: Electromagnetic Compatibility (EMC)
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements



STANDARD	DESCRIPTION OF STANDARD
EUDADEAN UNIAN	(acret)
EVROPEAN UNION EN 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 61850-3	Communication Networks and Systems in Substations [excluding 5.7.1.3 and 5.7.3]
EN 62040-2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery – functional safety of safety related electrical, electronic & 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.
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz to 300GHz)
EN 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)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech
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



STANDARD	DESCRIPTION OF STANDARD
	<u> </u>
EUROPEAN UNION	
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 2000) MHz - Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonized band (863 to 865) MHz
EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 1 Common technical requirements
EN 301 489-2 thru 35, 50	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services Parts 2 thru 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 (1785 to 1800) MHz
EN 301 893	Broadband Radio Access Networks (BRAN) - 5 GHz high performance RLAN [except DFS testing]
EN 301 908-1 thru 22	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Base 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 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 Medical Implants (ULP-AMI) and accessories
EN 302 208-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio 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 Range Devices (SRD) - Close Range Inductive Data Communication equipment operating at 13.56 MHz



STANDARD	DESCRIPTION OF STANDARD
BIANDAND	DESCRIPTION OF STANDARD
EUROPEAN UNION	(cont.)
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
	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
	transmitting systems
EN 302 645	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range
	Devices; Global Navigation Satellite Systems (GNSS) Repeaters
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
ELLD 1.1 M	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
	units intended therefor
UNITED NATIONS	
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	The same of the sa
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	
<u>IMDA SINGAPORE</u>	
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



STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL S	
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
	tools and similar apparatus - Part 1: Emission [excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric
	tools, and similar apparatus - Part 2: Immunity-Product Family Standard
CISPR 15	Limits and methods of measurement of radio disturbance characteristics of
	electrical lighting and similar equipment
CISPR 20	Sound and television broadcast receivers and associated equipment - Immunity
	characteristics - Limits and methods of measurement [excluding section 5.8]
CISPR 22	Information technology equipment - Radio disturbance characteristics - Limits
	and methods of measurement
CISPR 24	Information technology equipment - Immunity characteristics - Limits and
	methods of measurement
CISPR 25	Radio disturbance characteristics for the protection of receivers used on board
	vehicles, boats, and on devices - Limits and methods of measurement
	[excluding sections 5 and 6.5]
CISPR 25 (2008)	Radio disturbance characteristics for the protection of receivers used on board
(2002+COR1:2004)	vehicles, boats, and on devices - Limits and methods of measurement
	[excluding sections 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
	requirements
CISPR 35	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 -
	Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the safety of
	high frequency surgical equipment
IEC 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety
	of nerve and muscle stimulators [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of
	infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
	of electroencephalographs
IEC 60601-2-34	Medical electrical equipment – Part 2-34: Particular requirements for the basic
	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.



STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL ST	
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 ≤ 16 A
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
120 01000 . 0	techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement
ILC 01000 1 1	techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement
1EC 01000 13	techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement
1LC 01000-4-0	techniques - Immunity to conducted disturbances, induced by radio-frequency
	fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement
1LC 01000-4-0	techniques - Section 8 Power frequency magnetic field immunity test basic EMC
	publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11: testing and measuring
120 01000 111	techniques - Section 11 Voltage dips, short interruptions and voltage variations
	immunity tests
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measuring
1EC 01000 1 15	techniques - Section 13 Harmonics and interharmonics including mains signaling
	at a.c. power port, low frequency immunity tests
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for
	residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for
1200100002	industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions
110 01000-0-3	standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards – Immunity for
ILO 01000-0-T	residential, commercial, and light-industrial environments
IEC 61131-2	Programmable controllers - Part 2: Equipment requirements and tests [EMC]
1110 01131-2	sections only
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC
120 01320-1	requirements - Part 1: General requirements
IEC 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
12C 01320-2-1 uiiu 0	requirements - Parts 2-1 thru 2-6: Particular requirements - Test configurations,
	•
	operational conditions and performance criteria



STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL C	
INTERNATIONAL S	
IEC 61326-3-1, 2	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 3-1 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 sections 5.7.1.3 and 5.7.3]
IEC 62061	Safety of machinery – functional safety of safety related electrical, electronic &
	programmable control systems [EMC 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
<u>ISO</u>	
ISO 7637-1: 1990	Road vehicles – Electrical disturbance by conduction and coupling – Part 1
	Passenger cars and light commercial vehicles with nominal 12 V supply voltage
	Electrical transient conduction along supply lines only
ISO 7637-2	Road vehicles - Electrical disturbances from conduction and coupling -
	Part 2: Electrical transient conduction along supply lines only
ISO 7637-2: 1990	Road vehicles – Electrical disturbance by conduction and coupling – Part 2
	Commercial vehicles with nominal 24 V supply voltage – Electrical transient
	conduction along supply lines only
ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2:
150 7057 2.2001	Electrical transient conduction along supply lines only
ISO 7637-2:	Road vehicles - Electrical disturbances from conduction and coupling -
2004+A1	Part 2: Electrical transient conduction along supply lines only (<i>Except Pulse 5</i>
2004 111	calibration into 2 ohms T_d meets 400ms \pm 80ms)
ISO 7637-3	Road vehicles - Electrical disturbances from conduction and coupling -
ISO 7637-3: 2016	Part 3: - Electrical transient transmission by capacitive and inductive coupling
ISO 7637-3: 2010	via lines other than supply lines
ISO 10605	Road vehicles - Test methods for electrical disturbances from electrostatic
ISO 10605: 2008	discharge
	discharge
ISO 10605: 2001 ISO 11452-2	Dood vahiolog. Commonant toot motheds for electrical disturbances from
150 11432-2	Road vehicles - Component test methods for electrical disturbances from
	narrowband radiated electromagnetic energy - Part 2: Absorber-lined shielded
ISO 11452 4	enclosure Read vahiolog. Common and toot methods for electrical disturbances from
ISO 11452-4	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-4: 2011	narrowband radiated electromagnetic energy - Part 4: Harness excitation
TOO 11450 4 2005	methods (BCI method only)
ISO 11452-4: 2005	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-4: 2001	narrowband radiated electromagnetic energy - Part 4: Bulk current injection
	(BCI)



STANDARD	DESCRIPTION OF STANDARD
	·
ISO (cont.)	
ISO 11452-8	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-8: 2015	narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic
ISO 11452-8: 2007	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
<u>JAPAN</u>	
VCCI V-3	Technical Requirements [Note: 5 meter or less test distance]
(up to 6 GHz)	
VCCI-CISPR	Electromagnetic compatibility of multimedia equipment – Emission
32:2016	Requirements
SAE	
<u>SAE</u> SAE J551-1	Performance levels and methods of measurement of electromagnetic
SAE 3331-1	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
SAE J331-2	
SAE J551-4	vehicles, motorboats, and spark-ignited engine-driven devices Test limits and methods of measurement of radio disturbance characteristics of
SAE 3331-4	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
SAE 3331-3	strength from electric vehicles, broadband, (9 KHz to 30 MHz)
SAE J551-11	Vehicle electromagnetic immunity - off-vehicle source
SAE J551-12	
SAE J551-12 SAE J551-13	Vehicle electromagnetic immunity - on-board transmitter simulation (R) Vehicle electromagnetic immunity - bulk current injection
SAE J551-15	Performance level and methods of measurement of electromagnetic
SAE 3331-13	compatibility of vehicles, boats (up to 15 m), and machines (50 Hz to 15 GHz)
CAE 1551 17	Part 15 vehicle electromagnetic immunity - electrostatic discharge (ESD)
SAE J1112 2	(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
SAE J1113-4	leads Immunity to radiated electromagnetic fields – Bulk current injection (BCI)
SAE J1113-4 SAE J1113-4: 2014	method
SAE J1113-4: 2014 SAE J1113-4: 2004	memod
	Immunity to conducted transients on power leads
SAE J1113-11 SAE J1113-11: 2012	minumity to conducted transferits on power leads
SAE J1113-11: 2012 SAE J1113-11: 2007	
SAE J1113-11: 2007 SAE J1113-12	Electrical interference by conduction and coupling - capacitive and inductive
SAE J1113-12	
	coupling via lines other than supply lines



STANDARD	DESCRIPTION OF STANDARD
	<u>-</u>
SAE (cont.)	·
SAE J1113-13	Electromagnetic compatibility measurement procedure for vehicle components -
SAE J1113-13: 2015	part 13 immunity to electrostatic discharge
SAE J1113-13: 2011	
SAE J1113-13: 2004	
SAE J1113-21	Electrical interference by conduction and coupling - coupling clamp and chattering relay
SAE J1113- 22	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields
SAE J1113-26	Electromagnetic compatibility measurement procedure for vehicle components -
SAE J1113-26: 2013	Part 26 - immunity to ACA power lines electric fields
SAE J1113-26: 2014	
SAE J1113-26: 2006	
SAE J1113-41	Limits and methods of measurement of radio disturbance characteristics of
	components and modules for the protection of receivers used on board vehicles
SAE J1455	Joint SAE/TMC recommended environmental practices for electronic equipment
	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)
SAE J1752-3	(R) Measurement of radiated emissions from integrated circuits - TEM/wideband
	TEM (GTEM) cell method; TEM cell (150 kHz to 1 GHz),
	wideband TEM cell (150 KHz to 8 GHz) [up to 1.2GHz]
TAINAN	
TAIWAN LP0002	Low-power Radio-frequency Devices Technical Regulations [excluding DFS]
LF 0002	and SAR]
	•
<u>UNITED STATES</u> 47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 2	Emergency alert system (EAS)
ANSI C63.26	Standard for Compliance Testing of Transmitters Used in Licensed Radio
ANSI C03.20	Services
47 CFR PART 15	Radio frequency devices [excluding 15E DFS]
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 18	Commercial mobile services
FCC KDB 935210	Commercial moune services
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
51111111111	



STANDARD	DESCRIPTION OF STANDARD	
UNITED STATES (co.		
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 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: CE01-07, RE01-03]	
) (II. CED. 464D/E/E	[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: CE101, CE102, & CE106, RE101-103]	
	[Susceptibility tests CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]	
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of	
WIIL-51D-4010	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	
EGG) (D. 5. (100.0)	Communications Services (UPCS) Devices	
FCC MP-5 (1986)	Methods of Measurements of Radio Noise Emissions from Industrial, Scientific	
ANGL/TIA (OOD	and Medical equipment	
ANSI/TIA 603D;	Land Mobile FM or PM Communications Equipment Measurement and	
TIA-102.CAAA-D	Performance Standards.	



<u>STANDARD</u>	DESCRIPTION OF STANDARD	
<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					
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			
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 I	Devices				
Part 15D	ANSI C63.17:2013	220GHz			
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	adio 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	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 Licen	sed 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	es				
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			
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.

Laser



Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Fremont, CA

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 1978 A 2LA

Presented this 28th day of March 2017.

President and CEO

For the Accreditation Council Certificate Number 0803.06 Valid to March 31, 2019