

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 <u>Emissions, Immunity, Wireless, and Military tests for electrical equipment:</u>

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| <u>STANDARD</u> | DESCRIPTION OF STANDARD |
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| AUSTRALIA / NEW Z | |
| 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 | DESCRIPTION OF STANDARD |
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| <u>CANADA</u> | |
| 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 005 | AC Wire Carrier Current Devices (Unintentional Radiators) |
| RSS-102 | Evaluation procedure for mobile and portable radio transmitters with respect to |
| 105 102 | health Canada's safety code 6 for exposure of humans to radio frequency fields [<i>except SAR</i>] |
| 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-192 | 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 |

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| STANDARD | DESCRIPTION OF STANDARD |
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| <u>CANADA (cont.)</u> | |
| RSS-196 | Point-to-Multipoint Broadband Equipment Operating in the Bands |
| 100 170 | (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 |
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| EUROPEAN UNIO | |
| EN 12015 | Electromagnetic compatibility - Product family standard for lifts, escalators and |
| EN 12010 | passenger conveyors Emission |
| EN 12016 | Electromagnetic compatibility - Product family standard for lifts, escalators and |
| EN 12194 | 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 13703-20 EN ISO 14982 | |
| EN 150 14982 | Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria |
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| STANDARD | DESCRIPTION OF STANDARD |
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| EUROPEAN UNIC | DN (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 |
| 1,2,0 | 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 signalling 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 |
| | (900MHz and 5MHz Keyed Carrier) |
| EN 50270 | Electromagnetic compatibility - Electrical apparatus for the detection and |
| | measurement of combustible gases, toxic gases or oxygen |
| 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 2 Immunity |
| EN 50498 | Electromagnetic compatibility (EMC). Product family standard for aftermarket |
| | electronic equipment in vehicles |
| EN 55011 | Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio |
| | disturbance characteristics - Limits and methods of measurement |
| EN 55013 | 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 |
| | tools and similar apparatus - Part 1 Emission [excluding clicks] |
| EN 55014-2 | Electromagnetic compatibility - Requirements for household appliances, electric |
| | tools and similar apparatus - Part 2 Immunity - Product family standard |
| EN 55015 | Limits and methods of measurement of radio disturbance characteristics of |
| | electrical lighting and similar equipment |
| EN 55020 | Sound and television broadcast receivers and associated equipment - Immunity |
| | characteristics - Limits and methods of measurement [excluding section 5.8] |
| EN 55022 | Information technology equipment - Radio disturbance characteristics - Limits |
| - | and methods of measurement |
| EN 55024 | Information technology equipment - Immunity characteristics - Limits and |
| | methods of measurement |
| EN 55032 | Electromagnetic compatibility of multimedia equipment - Emission requirement |
| EN 55035 | Electromagnetic compatibility of multimedia equipment - Immunity |
| | requirements |

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| | STANDARD | DESCRIPTION OF STANDARD |

| EUROPEAN UNIO | |
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| EN 55103-1 | Electromagnetic compatibility - Product family standard for audio, video, audio |
| | visual and entertainment lighting control apparatus for professional use - |
| EN 55102 2 | Emission |
| EN 55103-2 | Electromagnetic compatibility - Product family standard for audio, video, audio |
| | visual and entertainment lighting control apparatus for professional use – |
| | Immunity |
| EN 60601-1-2 | Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests |
| EN 60601-2-2 | Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment |
| EN 60601-2-4 | Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [<i>EMC sections only</i>] |
| EN 60601-2-10 | Medical electrical equipment - Part 2-10 Particular requirements for the safety of |
| LIN 00001-2-10 | nerve and muscle stimulators [<i>EMC sections only</i>] |
| EN 60601-2-12 | Medical electrical equipment - Part 2-12 Particular requirements for the safety |
| LIN 00001-2-12 | lung ventilators - Critical care ventilators [<i>EMC sections only</i>] |
| EN 60601-2-22 | Medical electrical equipment - Part 2-22 Particular requirements for the safety |
| LIT 00001 2 22 | diagnostic and therapeutic laser equipment [<i>EMC sections only</i>] |
| EN 60601-2-24 | Medical electrical equipment - Part 2-24 Particular requirements for the safety |
| LIT 00001 2 21 | infusion pumps and controllers [<i>EMC sections only</i>] |
| 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 |
| | 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 |
| 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] |
| 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 - Gener |
| | 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 |

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| EUROPEAN UNION | V (cont) |
| 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 EM |
| | 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 technique |
| | - 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 |
| | <i>F</i> , <i>G</i> , and <i>H</i>] |
| 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 |
| EN 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 |
| 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. |

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| STANDARD DESCRIPTION OF STANDARI |
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| 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 field (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 | EUROPEAN UNION EN 62311 | Assessment of electronic and electrical equipment related to human exposure |
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| with the basic restrictions related to human exposure to electromagnetic field (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/ 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 300 328 Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wideb 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 - Electromagnetic Compatibility (EN range Devices (SRD)) - Radio equipment modulation techniques (9 KHz to 30 MHz) | 211 02311 | |
| with the basic restrictions related to human exposure to electromagnetic field (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/ 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 300 328 Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wideb 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 30 MHz) EN 300 436 Electromagnetic Compatibility and R | EN 62479 | Assessment of the compliance of low power electronic and electrical equipment |
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| connector intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/ELEN 300 086-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment with an internal or external RF connector intended primarily for analogue speechEN 300 113-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/ speech) using constant or non-constant envelope modulation and having an antenna connectorEN 300 219-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment transmitting signals to initiate a specific response in the receiverEN 300 220-2Electromagnetic 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) mWEN 300 328Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - On-site paging serviceEN 300 330-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniquesEN 300 330-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short Range Devices (SRD) - Padio equipment in the frequency range (9 KHz to 30 MHz)EN 300 422-1Wireless Microphones; Audio numbrity and Radio Spectrum Matters (ERM) - Short requirementsEN 300 422-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range Devices (SRD) - Radio equipment not the frequency range (9 KHz to 30 MHz) <td></td> <td>(10 MHz to 300 GHz)</td> | | (10 MHz to 300 GHz) |
| covering the essential requirements of article 3.2 of the Directive 2014/53/EUEN 300 086-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment with an internal or external RF connector intended primarily for analogue speechEN 300 113-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/ speech) using constant or non-constant envelope modulation and having an antenna connectorEN 300 219-2Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment transmitting signals to initiate a specific response in the receiverEN 300 220-2Electromagnetic 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) mWEN 300 224-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - On-site paging serviceEN 300 328Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Videb transmission systems - Data transmission equipment operating in the 2.4 GH ISM band and using spread spectrum modulation techniquesEN 300 330-2Electromagnetic 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 25 MHz) and inductive loop systems in the frequency range (9 KHz to 30 MHz)EN 300 422-1Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A Receive EN 300 422-2EN 300 422-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Useds requirement | EN 300 086 | Land Mobile Service; Radio equipment with an internal or external RF |
| 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 (ad/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) - On-site paging service (SRD) - Radio 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 25 MHz) and inductive loop systems in the frequency range (9 KHz to 25 MHz) and inductive loop systems in the frequency range (9 KHz to 25 MHz) and inductive loop systems in the frequency range (9 KHz to 25 MHz) and inductive loop systems in the frequency range (9 KHz to 25 MHz) and Radio Spectrum Matters (ERM) - Telecommunication | | connector intended primarily for analogue speech; Harmonised Standard |
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| 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 386Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Telecommunication network equipment - Electromagnetic Compatibility (EN requirementsEN 300 422-1Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A Receive EN 300 422-2EN 300 422-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireles microphones in the (25 MHz to 3 GHz) frequency rangeEN 300 433-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radioEN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra EN 300 454-2EN 300 454-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra audio links | | |
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| (9 KHz to 30 MHz)EN 300 386Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Telecommunication network equipment - Electromagnetic Compatibility (EM requirementsEN 300 422-1Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A Receive Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireles microphones in the (25 MHz to 3 GHz) frequency rangeEN 300 433-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radioEN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireles audio links | | |
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| requirementsEN 300 422-1Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A ReceiverEN 300 422-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireless microphones in the (25 MHz to 3 GHz) frequency rangeEN 300 433-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radioEN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency radius Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | EN 300 386 | |
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| mobile service - Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radioEN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | EN 200 422 2 | |
| amplitude modulated citizen's band radioEN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency radiusEN 300 454-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | EN 300 433-2 | |
| EN 300 440-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency ra Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | | |
| range devices - Radio equipment to be used in the (1 to 40) GHz frequency raEN 300 454-2Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | EN 200 440 2 | |
| EN 300 454-2 Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide b audio links | EN 300 440-2 | |
| audio links | ENI 200 454 2 | |
| | EIN 300 434-2 | |
| EN 301 337-2 Electromagnetic Compationity and Kadio Spectrum Matters (EKM) - Cordes | EN 201 257 2 | |
| audio daviago in the range (25 to 2 000) MILT. Consumer rediance house | EIN 301 337-2 | |
| | | 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 | | |

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| STANDARD | |
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DESCRIPTION OF STANDARD

EUROPEAN UNION (cont.)

| EN 201 400 1 | |
|----------------------|--|
| EN 301 489-1 | Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - |
| | ElectroMagnetic Compatibility (EMC) standard for radio equipment and servi - 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 servi |
| | 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 |
| | (1785 to 1,800) MHz |
| EN 301 893 | Broadband Radio Access Networks (BRAN) - 5 GHz high performance RLA |
| | [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 network |
| | [-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20 & -22] |
| EN 302 064-2 | Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireles |
| | 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 (ULI |
| | AMI) and accessories (ULP-AMI-P) operating in the frequency range (9 to 31 |
| EN 202 105 2 | 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 |
| ENI 202 208 2 | 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 |
| LIN 302 271-2 | Range Devices (SRD) - Close Range Inductive Data Communication equipme |
| | operating at 13.56 MHz |
| EN 302 326-2 | Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: |
| LIT 302 320 2 | Digital Multipoint Radio Equipment |
| EN 302 326-3 | Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: |
| 1115025105 | Multipoint Radio Antennas |
| EN 302 500-2 | Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short |
| 21, 502 500 2 | 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 Rar |
| | Devices; Global Navigation Satellite Systems (GNSS) Repeaters |

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| <u>STANDARD</u> | DESCRIPTION OF STANDARD | |
|-----------------------------------|---|--|
| <u>EU DIRECTIVES</u> | | |
| 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 inter | |
| | 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 | |
| | | |
| UNITED NATIONS | | |
| UN/ECE Addendum | Concerning the Adoption of Uniform Technical Prescription for Wheeled | |
| 9 Reg 10 UN/ECE Addendum | Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled | |
| | Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted | |
| 9 Reg 10 Rev 5 UN/ECE Addendum | on the Basis of these Prescriptions. | |
| 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 | Electromagnetic compationity | |
| | | |
| 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 | |
| Ť | (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 | |
| | tools and similar apparatus - Part 1 Emission [<i>excluding clicks</i>] | |
| 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 | |

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| STANDARD | DESCRIPTION OF STANDARD |
|------------------|---|
| INTERNATIONAL (| cont) |
| CISPR 20 | Sound and television broadcast receivers and associated equipment - Immunity |
| 01011120 | characteristics - Limits and methods of measurement [<i>excluding section 5.8</i>] |
| 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 section 5 and 6.5] |
| CISPR 25 | Radio disturbance characteristics for the protection of receivers used on board |
| (2008) | vehicles, boats, and on devices - Limits and methods of measurement |
| (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 - Immunity requirement |
| 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 |
| IEC (0(01 2 47 | equipment |
| IEC 60601-2-47 | Medical electrical equipment - Part 2-47 Particular requirements for the safety, |
| IEC 60601-2-62 | including essential performance, of ambulatory electrocardiographic systems Medical electrical equipment - Part 2-62 Particular requirements for the basic |
| IEC 00001-2-02 | safety and essential performance of high intensity therapeutic ultrasound (HITU) |
| | equipment |
| IEC 60945 | Maritime navigation and radio communication equipment and systems - General |
| IEC 00945 | requirements - Methods of testing and required test results |
| IEC 60974-10 | Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) |
| 1120 00974-10 | requirements |
| IEC 61000-3-2 | Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for |
| 100 01000-3-2 | 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 |
| | |

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| | STANDARD | DESCRIPTION OF STANDARD | |
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NATIONAL (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 |
| | 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 |
| | tests |
| IEC 61000-4-13 | Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement |
| | techniques - Harmonics and interharmonics includingmains signalling at a.c. |
| | 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 |
| | residential, commercial, and light-industrial environments |
| IEC 61000-6-2 | Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for |
| | industrial environments |
| IEC 61000-6-3 | Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions |
| | standard for residential, commercial, and light-industrial environments |
| IEC 61000-6-4 | Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for |
| | 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 |
| 1 | [excluding 5.7.1.3 and 5.7.3] |

| STANDARD | DESCRIPTION OF STANDARD |
|-------------------|--|
| INTERNATIONAL | (cont.) |
| IEC 62061 | Safety of machinery - functional safety of safety related electrical, electronic |
| | programmable control systems (note: only capable of performing EMC testin |
| | 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 equipm |
| | with the basic restrictions related to human exposure to electromagnetic field |
| | (10 MHz to 300 GHz) |
| IEEE 1613 | Environmental and Testing Requirements for Communications Networking |
| | Devices Installed in Electric Power Substations |
| | |
| <u>ISO</u> | |
| ISO 7637-2:2004 | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 |
| | Electrical transient conduction along supply lines only |
| ISO 10605 | Road vehicles - Test methods for electrical disturbances from electrostatic |
| ISO 10605: 2008 | discharge |
| ISO 10605: 2001 | |
| 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 | Road vehicles - Component test methods for electrical disturbances from |
| ISO 11452-4: 2011 | narrowband radiated electromagnetic energy - Part 4: Harness excitation |
| | 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) |
| ISO 11452-5 | Road vehicles - Component test methods for electrical disturbances from |
| | narrowband radiated electromagnetic energy - Part 5: Stripline |
| 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 |
| | |
| JAPAN VCCLV 2 | |
| VCCI V-3 | Technical Requirements [Note: 5 meter or less test distance] |
| (up to 6 GHz) | |
| VCCI-CISPR 32: | Electromagnetic compatibility of multimedia equipment – Emission |
| 2016 | Requirements |

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| <u>SAE</u> | |
|--------------------|---|
| 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 |
| GAE 11112 22 | chattering relay |
| SAE J1113-22 | Electromagnetic compatibility measurement procedure for vehicle components - |
| CAE 11112 41 | immunity to radiated magnetic fields Limits and methods of measurement of radio disturbance characteristics of |
| SAE J1113-41 | components and modules for the protection of receivers used on board vehicles |
| SAE J1455 | |
| SAE J1435 | Joint SAE/TMC recommended environmental practices for electronic equipmen 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 |
| SAE J1752-2 | |
| | method (loop probe method) (10 MHz to 3 GHz) |
| TAIWAN | |
| LP0002 | Low-power Radio-frequency Devices Technical Regulations [excluding DFS |
| | and SAR] |

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| <u>UNITED STATES</u> | |
|----------------------------------|---|
| 47 CFR PART 2 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulatio |
| 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 22 47 CFR PART 24 | Personal communications services |
| 47 CFR PART 24 47 CFR PART 25 | Satellite communications |
| 47 CFR PART 23 47 CFR PART 27 | Miscellaneous wireless communication services |
| 47 CFR PART 27 47 CFR PART 73 | Radio broadcast services |
| 47 CFR PART 73 | Experimental radio, auxiliary, and special broadcast and other program |
| 4/ CINIANI /4 | 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 an |
| 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] |

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| STANDARD | DESCRIPTION OF STANDARD |
|---|---|
| UNITED STATES (* | |
| <u>UNITED STATES (c</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 |

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| 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 |
|---|--|-----------|
| Unintentional Radiators | | Frequency |
| Part 15B | ANSI C63.4:2014 | 220 GHz |
| Industrial, Scientific, and Medical Equipment | ANSI C03.4:2014 | 220 GHZ |
| <i>i i</i> i i | ECC MD 5 (Estamon 1096) | 220 GHz |
| Part 18 Intentional Radiators | FCC MP-5 (February 1986) | 220 GHZ |
| | ANGL C(2.10.2012 | 1 220 CH |
| Part 15C | ANSI C63.10:2013 | 220 GHz |
| Unlicensed Personal Communication Systems D | | |
| 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 Rad | | |
| Parts 22 (cellular), 24, 25 (non-microwave), and 27 | ANSI/TIA-603-D; TIA-102.CAAA-D | 220 GHz |
| General Mobile Radio Services (FCC Licensed F | 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 Licens | ed 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 Services | | |
| Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101 | ANSI/TIA-603-D; TIA-102.CAAA-D | 220 GHz |
| Broadcast Radio Services | | 0112 |
| Parts 73 and 74 (non-microwave) | ANSI/TIA-603-D; TIA-102.CAAA-D | 220 GHz |
| | | 220 0112 |
| Signal Boosters | 1 | L |
| Part 20 | FCC KDB 935210 D03 (v04); | 220 GHz |
| (Wideband Consumer Signal Boosters, | FCC KDB 935210 D03 (V04), | 220 0112 |
| Provider-specific | FCC KDB 935210 D04 (V02), 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.

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Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC. Bothell, WA

Dourien, 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).



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

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