# Schedule of Accreditation

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| Organisation Name | Compliance Engineering Ireland Ltd |
| Trading As | |
| INAB Reg No | 88T |
| Contact Name | John McAuley |
| Address | Clonross, Dunshaughlin, Meath, A85 XN59 |
| Contact Phone No | +35318017000 |
| Email | john.mcauley@cei.ie |
| Website | http://www.cei.ie |
| Accreditation Standard | EN ISO/IEC 17025 T |
| Date of award of accreditation | 11/03/1998 |
| Scope Classification | Electrical Testing |

Services available to the public[1]

[1] Refer to document on interpreting INAB Scopes of Accreditation

| Sites from which accredited services are delivered | | |
|---|---|---|
| (the detail of the accredited services delivered at each site are on the Scope of Accreditation) | | |
| | **Name** | **Address** |
| 1 | Compliance Engineering Ltd - Randalstown, Co. Antrim | 8 Greenan Road, Randalstown, Co. Antrim, United Kingdom, BT41 3LP |
| 2 | Compliance Engineering Ireland Ltd - Dunshaughlin, Co. Meath (Head Office) | Clonross, Dunshaughlin, Meath, A85 XN59 |

# Scope of Accreditation

## Compliance Engineering Ireland Ltd - Dunshaughlin, Co. Meath (Head Office)

### Electrical Testing

**Category: A**

| Electrical testing field - Type of test | Test description | Equipment tested | Measurement units (e.g. Amp, V, Hz) | Range of measurement | Std. ref & SOP |
|---|---|---|---|---|---|
| 301 Electromagnetic compatibility - .01 Emission testing | EMC Basic Standard [124] | Road Vehicles | V | 9 kHz - 40 GHz | ISO 7637-1:2023 |
| | EMC Basic Standards [124] | Household and similar electrical appliances - Electromagnetic fields - Methods for evaluation and measurement | V | 9 kHz - 40 GHz | EN 50366:2003 +A1:2006 |
| | | Intentional Radiators | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 15 Subchapter C |
| | | Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection | V | 50Hz - 4kHz | EN 61000-3-3:2013 +A1:2017 |

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|---|---|---|---|---|---|
| | | | V | 50Hz - 4kHz | IEC 61000-3-3:2013+A1:2017 |
| | | | V | 50Hz - 4kHz | EN 61000-3-3:2013+A1:2019 +A2:2021 |
| | | | V | 50Hz - 4kHz | IEC 61000-3-3:2013+A1:2017 +A2:2021 |
| | | Limits for harmonic current emissions | V | 50Hz - 4kHz | EN IEC 61000-3-2:2019/AMD1:2021 AMD2:2024 |
| | | Low voltage Electrical and electronic equipment | V | 9 kHz - 40 GHz | ANSI C63.4:2014 |
| | | | V | 9 kHz - 40 GHz | ANSI C63.4a:2017 |
| | | Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure | V | 9 kHz - 40 GHz | EN 62233:2008<br>IEC 62233:2005 |
| | | Railway applications | V | 9 kHz - 40 GHz | IEC 62236-3-2:2018 |
| | | | V | 9 kHz - 40 GHz | EN 50121-3-2:2016 +A1:2019 |
| | | | V | 9 kHz - 40 GHz | EN IEC 50121-3-2:2018 |
| | | | V | 9 kHz - 40 GHz | IEC 62236-2:2018 |
| | | Ultra-Wideband Operation | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 15 Subchapter F |
| | | Unintentional Radiators | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 15: Subpart B |
| | | Unlicensed National Information Infrastructure Devices | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 15 Subchapter E |
| | | Unlicensed Personal Communications Service Devices | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 15 Subchapter D |
| | EMC Basic Standards [124] | Limits for harmonic current emissions | V | 50Hz - 4kHz | IEC 61000-3-2:2018/ AMD1:2020 + AMD2:2024 |

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| EMC generic standard [124] | Equipment used in residential, commercial and light industry | V | 9 kHz - 40 GHz | EN IEC 61000-6-4:2019 |
| | | V | 9 kHz - 40 GHz | EN IEC 61000-6-3:2021 |
| | | V | 9 kHz - 40 GHz | EN IEC 61000-6-4:2019 |
| | | V | 9 kHz - 40 GHz | EN 61000-6-4:2007+A1:2011 |
| | | V | 9 kHz - 40 GHz | IEC 61000-6-4:2018 |
| | | V | 9 kHz - 40 GHz | IEC 61000-6-3:2006+A1:2016 |
| | | V | 9 kHz - 40 GHz | IEC 61000-6-1:2016 |
| | | V | 9 kHz - 7 GHz | IEC 61000-6-3:2020 |
| EMC product standard (Emissions and Immunity)[124] | Road Vehicles | V | 20 MHz - 2 GHz (immunity) 150 kHz - 1 GHz (emissions) | ECE Regulation 10.06 |
| EMC product standard [124] | Active implantable medical devices | V | 9 kHz - 40 GHz | EN 45502-1:2015 Clause 24 |
| | | V | 9 kHz - 40 GHz | EN 45502-2-1:2003 Clause 24 & 27 |
| | | V | 9 kHz - 40 GHz | EN 45502-2-2:2008 Clause 24 & 27 |
| | | V | 9 kHz - 40 GHz | ISO 14708-1:2014 **1,2,4 |
| | | V | 9 kHz - 40 GHz | ISO 14708-2:2019 Clause 24 (ESD) and 27 (EMC) |
| | | V | 9 kHz - 40 GHz | ISO 14708-3:2017 Clause 24 (ESD) and 27 (EMC) |
| | Alarm systems - (Alarm transmission systems and equipment) | V | See 309.01 to 309.10 for ROM | EN 50136-2-1:1998 (EMC requirements only) |

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| | | Alarm systems - (Fire, intruder and social alarm systems) | V | See 309.01 to 309.09 for ROM | EN 50130-4:2011 +A1:2014 |
| | | Alarm systems - (Intrusion and hold-up systems) | V | See 309.01 to 309.09 for ROM | EN 50131-1: 2006 Clause 12.1 only+A2:2017 +A3:2020 |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-2-2: 2017 Clause 4.7.2 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-2-2: 2008 Clause 4.7.2 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-2-4: 2020 Clause 4.7.2 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-2-6: 2008 Clause 4.7.2 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-3: 2009 Clause 11.4 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-4: 2019 Clause 5.4 only |
| | | | V | See 309.01 to 309.09 for ROM | EN 50131-6: 2017 + A1:2021 Clause 4.14 only |
| | | ambulatory electrocardiographic systems | V | 9 kHz - 40 GHz | EN 60601-2-47:2015 Clause 202 |
| | | Automatic electrical controls for household and similar use | V | See 309.01 to 309.09 for ROM | IEC 60730-1:2022 |

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| | | | V | See 309.01 to 309.09 for ROM | EN 60730-1:2016 +A1:2019 |
| | | | V | See 309.01 to 309.09 for ROM | EN IEC 60730-1:2024 +A11:2024 |
| | | cardiac defibrillators | V | 9 kHz - 40 GHz | EN 60601-2-4:2011 + A1:2019 Clause 202 |
| | | | V | 9 kHz - 40 GHz | EN 60601-2-4:2011 + A1:2019 Clause 202 |
| | | Commercial Avionics | V | 9 kHz - 40 GHz | RTCA DO-160G Section 21 |
| | | Electrical equipment for measurement control and laboratory use | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-4:2021 |
| | | | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-5:2021 |
| | | | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-6:2021 |
| | | Electrical equpment for measurement, control and laboratory use | V | See 309.01 to 309.09 for ROM | EN IEC 61326-1:2021 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-1:2006 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-1:2013 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-1:2006 |

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| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-2:2013 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-2:2006 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-3:2013 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-3:2006 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-3:2013 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-3:2013 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61326-2-3:2013 |
| | | Electricalapparatus for the detection and measurement of combustible gases, toxic gases or oxygen | V | See 309.01 to 309.09 for ROM | EN 50270:2015 |
| | | electrocardiographic monitoring equipment | V | 9 kHz - 40 GHz | EN 60601-2-27:2006 |
| | | | V | 9 kHz - 40 GHz | EN 60601-2-27:2011 |
| | | | V | 9 kHz - 40 GHz | EN 60601-2-27:2014 Clause 202 |
| | | EMC of multimedia equipment | V | 9 kHz - 40 GHz | EN 55032:2012 (excl audio and broadcast receiver equipment) |
| | | | V | 9 kHz - 40 GHz | EN 55032:2015, A11:2020 (excl audio and broadcast receiver equipment) |

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| | | | V | 9 kHz - 40 GHz | CISPR 32:2015 +A1:2019 (excl audio and broadcast receiver equipment) |
| | | Equipment used in residential, commercial and light industry | V | 9 kHz - 40 GHz | EN 50082-1:1997 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61000-6-1:2001 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61000-6-1:2007 |
| | | Equipment used in industrial environment | V | 9 kHz - 40 GHz | EN 50082-2:1996 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61000-6-2:1999 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61000-6-2:2001 |
| | | | V | See 309.01 to 309.09 for ROM | EN 61000-6-2:2005 |
| | | | V | See 309.01 to 309.09 for ROM | EN IEC 61000-6-2:2019 |
| | | | V | See 309.01 to 309.09 for ROM | IEC 61000-6-2:2016 |
| | | external cardiac pacemakers with internal power source | V | 9 kHz - 40 GHz | IEC 60601-2-31:2020 |
| | | Household appliances, electric tools and similar apparatus | V | 9 kHz - 40 GHz | EN 55014:2001 A2:2002 EN 55014-1:2006, A1:2009 +A2:2011 |
| | | | V | 9 kHz - 40 GHz | CISPR 14-1:2020 |

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| Household appliances, electric tools and similar equipment | V | 9 kHz - 40 GHz | EN 55014-1:2017, A11:2020 |
| | V | 9 kHz - 40 GHz | EN IEC 55014-1:2017 |
| | V | 9 kHz - 40 GHz | CISPR 14-1:2005, A1:2008 and A2:2011 |
| | V | 9 kHz - 40 GHz | CISPR 14-1:2016 |
| Industrial, scientific and medical equipment | V | 9 kHz - 40 GHz | EN 55011:2016 A1:2017 A2:2021 A11:2020 |
| | V | 9 kHz - 40 GHz | CISPR 11:2009 |
| | V | 9 kHz - 40 GHz | CISPR 11:1997 +A1:1999, A2:2002 |
| | V | 9 kHz - 40 GHz | AS/NZS CISPR 11:2017 |
| | V | 9 kHz - 7 GHz | CISPR 11: 2024 |
| Information technology equipment | V | 9 kHz - 40 GHz | CISPR 22:2005 + A1:2005 |
| | V | 9 kHz - 40 GHz | AS/NZS CISPR 22:2002 |
| | V | 9 kHz - 40 GHz | EN 55022:2010 |
| | V | 9 kHz - 40 GHz | AS/NZ CISPR 32:2015 +A1:2020 (excl audio and broadcast receiver equipment) |
| | V | 9 kHz - 40 GHz | EN 55022:1998 + A2:2003 |
| | V | 9 kHz - 40 GHz | EN 55022:2006 + A1:2007 |
| | V | 9 kHz - 40 GHz | CISPR 22:1997 + A1:2001, +A2:2002 |
| Luminaires | V | 9 kHz - 40 GHz | CISPR 15: 2018 |
| | V | 9 kHz - 40 GHz | EN IEC 55015:2019, A11:2020 |
| | V | 9 kHz - 40 GHz | CISPR 15: 2018 |
| | V | 9 kHz - 40 GHz | CISPR 15: 2013 |
| | V | 9 kHz - 40 GHz | CISPR 15: 2018 +A1:2024 |

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| | | Medical electrical equipment | V | 9 kHz - 40 GHz | EN 60601-2-25:2015 Clause 202 |
| | | | V | 9 kHz - 7 GHz | EN 60601-2-10:2015 +A1:2016 +A2:2024 (EMC requirements) |
| | | | V | See 309.01 to 309.09 for ROM | IEC 60601-1-2:2015+A1:2020 Excludes user documentation, technical aspects only |
| | | | V | See 309.01 to 309.09 for ROM | EN 60601-1-2:2015+A1:2021 Excludes user documentation, technical aspects only |
| | | Radio equipment and services | V | See 309.01 to 309.09 for ROM | ETSI EN 301 489-1 - V2.2.3 |
| | | | V | See 309.01 to 309.09 for ROM | EN 50293:2012 |
| | | | V | See 309.01 to 309.09 for ROM | EN 12895:2015 +A1:2019 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v1.6.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v1.6.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v2.1.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-7:v1.3.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-5 V2.2.1 |

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| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-8 V1.2.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-9 V2.1.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-17 V3.2.6 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-23 V1.5.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-27 V2.2.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-29 V2.2.0 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-31 V2.2.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-33 V2.2.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-35 V2.2.0 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-50 V2.2.1 |
| V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-52 V1.1.0 |

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| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-52 V1.3.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v2.3.2 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-17 V3.3.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v2.3.2 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-50 V2.3.1 |
| | | Railwayapplications | V | See 309.01 to 309.09 for ROM | EN 50121-4:2016+A1:2019 |
| | | Road Vehicles | V | 9 kHz - 40 GHz | EC Directive 2004/104/EC |
| | | Vehicles, boats and internal combustion engines | V | 9 kHz - 40 GHz | EN 55025:2022, CISPR 25:2021<br><br>CISPR 25: 2002 +COR1: 2004 |
| | | | V | 9 kHz - 40 GHz | EN 55012:2007 +A1:2009, CISPR 12:2007 +A1:2009 |
| | EMC product standard [124] | Household appliances, electric tools and similar equipment | V | 9 kHz - 40 GHz | EN 55014-1:2021 |

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| | | Medical electrical equipment | V | 9 kHz - 40 GHz | IEC 60601-2-10:2012 +A1:2016 +A2:2023 (EMC requirements) |
| | Radio Basic Standards [124] | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations | dBm | 9 kHz - 40 GHz | FCC CFR 47 Part 2: Subparts A, H, I, J, K |
| | Radio product standard [124] | Industrial, Scientific and Medical (ISM) Radio Frequency Generators | dBm | 9 kHz - 40 GHz | ICES-001 |
| | | Information technology equipment | dBm | 9 kHz - 40 GHz | ICES-003 |
| | | Vehicles, boats and internal combustion engines | dBm | 9 kHz - 40 GHz | ICES-002 |
| 301 Electromagnetic compatibility - .02 Immunity testing | EMC generic standard [124] | Equipment used in residential, commercial and light industry | V | 9 kHz - 7 GHz | EN IEC 61000-6-1:2019 |
| | EMC product standard [124] | Active implantable medical devices | V | See 309.01 to 309.09 for ROM | ISO 14117:2019 |
| | | | V | See 309.01 to 309.09 for ROM | AAMISO 14117:2012 Sub Clause 4.3 |
| | | As above | V | See 309.01 to 309.09 for ROM | EN 61000-4-8:2010 IEC 61000-4-8:2009 |
| | | Emissions and immunity tests Lighting | V | See 309.01 to 309.09 for ROM | EN IEC 61547:2023 |
| | | | V | See 309.01 to 309.09 for ROM | IEC 61547:2020 |
| | | Emissions and immunity tests Switch Mode Power Supplies | V | See 309.01 to 309.09 for ROM | EN 61204-3:2018 |

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| | | | V | See 309.01 to 309.09 for ROM | IEC 61204-3:2016 |
| | | Household appliances, electrical tools and similar apparatus | V | See 309.01 to 309.09 for ROM | CISPR 14-2:2020 |
| | | | V | See 309.01 to 309.09 for ROM | EN 55014-2:2015 |
| | | | V | See 309.01 to 309.09 for ROM | EN IEC 55014-2:2021 |
| | | Information technology equipment | V | See 309.01 to 309.09 for ROM | EN 55024 :2010 +A1:2015 |
| | | | V | See 309.01 to 309.09 for ROM | EN 55035:2017, A11:2020 |
| | | | V | See 309.01 to 309.09 for ROM | CISPR 35:2016 |
| | | Product family standard for automotive aftermarket electronic equipment in vehicles | V | See 301.01 and 301.02 for ROM | EN 50498:2010 |
| | Radio product standard [124] | IMT cellular networks | dBm | 9 kHz - 40 GHz | ETSI EN 301 908-1 V15.1.1 |
| | | | dBm | 9 kHz - 40 GHz | ETSI EN 301 908-1 V15.2.1 |
| | | Radio Frequency Identification Equipment | dBm | 9 kHz - 40 GHz | EN 302 208-1 V3.3.1 |
| | | Short Range Devices | dBm | 9 kHz - 40 GHz | EN 300 220-2 V3.1.1 |
| | | | dBm | 9 kHz - 40 GHz | ETSI EN 300 220-2 V3.3.1 |

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| 302 Approval & performance tests - .01 Radio communications equipment | EMC basic immunity standards [124] | Conducted immunity testing to 10Vemf | V | 9 kHz - 230 MHz | IEC 61000-4-6:2023 |
| | EMC product standard [124] | Radio equipment and services | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-29 V2.2.1 |
| | Radio Basic Standards [124] | Transmitters Used in Licensed Radio Services | dBm | 9 kHz - 40 GHz | ANSI C63.26:2015 incl KDB publication 971168 |
| | Radio product standard [124] | 2 GHz Personal Communications Services | dBm | 9 kHz - 40 GHz | RSS-133 Issue 6 2013, Amendment 1 January 2018 |
| | | | dBm | 9 kHz - 40 GHz | RSS-133 Issue 7 July 2024 |
| | | 5 GHz RLAN | dBm | 9 kHz - 40 GHz | EN 301 893 V2.1.1 |
| | | Advanced Wireless Services | dBm | 9 kHz - 40 GHz | RSS-139 Issue 3 July 2015 |
| | | | dBm | 9 kHz - 40 GHz | RSS-139 Issue 4 Sept 2022 |
| | | Cellular Telephone Systems | dBm | 9 kHz - 40 GHz | RSS-132 Iss.3 January 2013 |
| | | | dBm | 9 kHz - 40 GHz | RSS-132 Iss.4 January 2023 |
| | | Devices Using Ultra -Wideband Technology | dBm | 9 kHz - 40 GHz | RSS 220 Issue 1, Amendment 1 July 2018 |
| | | Digital Transmission Systems, Frequency hopping systems and Licence-Exempt Local Area NetworkDevices | dBm | 9 kHz - 40 GHz | RSS-247 Issue 2 February 2017 |
| | | Digital Transmission Systems, Frequency hopping systems and Licence-Exempt Local Area Network Devices | dBm | 9 kHz - 40 GHz | RSS-247 Issue 3 August 2023 |
| | | | dBm | 9 kHz - 40 GHz | RSS-247 Issue 4 July 2025 |

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| Experimental Radio, Auxiliary, Special Broadcast and other Program Distributional Services | dBm | 9 kHz - 40 GHz | FCC 47 CFR Part 74 |
| Frequency Allocations and Radio Treaty Matters, General Rules and Regulations | dBm | 9 kHz - 40 GHz | FCC 47 CFR 2 |
| General Requirements for Compliance of Radio Apparatus | dBm | 9 kHz - 40 GHz | RSS Gen Issue 5 April 2018 A1 March 2019 A2 February 2021 |
| IMT cellular networks | dBm | 9 kHz - 40 GHz | ETSI EN 301 908-1 V13.0.1 |
| Industrial, scientific and medical equipment | dBm | 9 kHz - 40 GHz | FCC MP-5 February 1986 |
| Licence-Exempt Radio Apparatus: Category I Equipment | dBm | 9 kHz - 40 GHz | RSS-210 Issue 10, December 2019, Amendment (April 2020) |
| | dBm | 9 kHz - 40 GHz | RSS-210 Issue 11, 2024 (< 40 GHz) |
| Medical Devices | dBm | 9 kHz - 40 GHz | RSS-243, Issue 3 February 2010 |
| | dBm | 9 kHz - 40 GHz | RSS-244, Issue 1 June 2013 |
| Medradio | dBm | 9 kHz - 40 GHz | FCC 47 CFR Part 95 Rules for Medradio |
| Miscellaneous Wireless Communications Services | dBm | 9 kHz - 40 GHz | FCC 47 CFR 27 |
| Personal Communications Services | dBm | 9 kHz - 40 GHz | FCC 47 CFR 24 |
| Public Mobile Services | dBm | 9 kHz - 40 GHz | FCC 47 CFR Part 22 |
| Radio Broadcast Services | dBm | 9 kHz - 40 GHz | FCC 47 CFR Part 73 |
| Radio equipment in the frequency range 9 kHz to 315 kHz | dBm | 9 kHz - 40 GHz | EN 302 195-1 V1.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 302 195-2 V1.1.1 |

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| Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) | dBm | 9 kHz - 40 GHz | Measurement: RSS-102 (RF Exp.) Iss.5 March 2015 Amendment 1 (February 2, 2021) |
| Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) | dBm | 3 kHz - 10 MHz | RSS-102.NS.MEAS 2023 |
| | dBm | 9 kHz - 40 GHz | RSS-102 Iss.6 Dec 2023 |
| Radio Frequency Identification Equipment | dBm | 9 kHz - 40 GHz | EN 302 208-1 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 302 208-2 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 302 208-2 V3.2.0 |
| | dBm | 9 kHz - 40 GHz | ETSI EN 302 208 V3.2.0 |
| Railway applications | dBm | 9 kHz - 40 GHz | EN 50121-2:2017 |
| Satellite Communications | dBm | 9 kHz - 40 GHz | FCC 47 CFR Part 25 |
| Short Range Devices | dBm | 9 kHz - 40 GHz | EN 300 330-2 V1.6.1 |
| | dBm | 9 kHz - 40 GHz | EN 300 440 V2.2.1<br>EN 300 440 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 300 440-1 V1.6.1 |
| | dBm | 9 kHz - 40 GHz | EN 300 440-2 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 301 839 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 301 839-1 V1.3.1 |
| | dBm | 9 kHz - 40 GHz | EN 301 839-2 V1.3.1 |
| | dBm | 9 kHz - 40 GHz | EN 302 195 V2.1.1 |
| | dBm | 9 kHz - 40 GHz | EN 302 537-1 V1.1.2 |
| | dBm | 9 kHz - 40 GHz | EN 302 537-2 V1.1.2 |

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| | | | dBm | 9 kHz - 40 GHz | EN 300 220-1 V3.1.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 220-2 V3.2.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 220-3-1 V2.1.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 220-3-2 V1.1.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 220-4 V1.1.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 330 V2.1.1 |
| | | | dBm | 9 kHz - 40 GHz | EN 300 220-2 V3.1.1 |
| | | Ultra Low Power Medical Data Service (MEDS) Systems | dBm | 9 kHz - 40 GHz | EN 302 537 V2.1.1 |
| | | Ultra-Wideband Operation | dBm | 9 kHz - 40 GHz | KDB 789033 |
| | | | dBm | 9 kHz - 40 GHz | FCC KDB 905462 |
| | | | dBm | 9 kHz - 40 GHz | D02 UNII DFS Compliance Procedures New Rules v02 |
| | | Unlicensed Personal Communications Services (UPCS) Devices | dBm | 9 kHz - 40 GHz | ANSI C63.17:2013 |
| | | Unlicensed Wireless Devices | dBm | 9 kHz - 40 GHz | ANSI C63.10:2009 |
| | | | dBm | 9 kHz - 40 GHz | ANSI C63.10:2013 |
| | | | dBm | 9 kHz - 40 GHz | ANSI C63.10:2020 +Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 |
| | | Wideband Transmission Systems | dBm | 9 kHz - 40 GHz | EN 300 328 V2.2.2 |
| | | Wireless Microphones | dBm | 9 kHz - 40 GHz | ETSI EN 300 422-1 V2.1.2 |
| | | | dBm | 9 kHz - 40 GHz | ETSI EN 300 422-1 V2.1.2 |
| 302 Approval & performance tests - .02 Electrical | Audio/video, information and communication | Audio/video, information and communication technology equipment | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz | EN 62368-1:2014/A11:2017 |

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|---|---|---|---|---|---|
| appliances and accessories | technology equipment - Part 1 safety requirements [124] | | | 0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | |
| | | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 62368-1:2014/COR2:2015 |
| | | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 62368-1:2018 |
| | | | A,V,Hz,m,N,lx,dB | 0V to10000V<br>0A to 600A<br>0Hz to 300Mhz<br>0m to 10m<br>0N to 800N<br>0lx to1500lx<br>50dB to 130dB | EN IEC 62368-1:2020 |
| | Audio/video, information and communication technology equipment - Part 1 safety requirements [124] | Audio/video, information and communication technology equipment | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 62368-1:2023 |
| | EMC basic immunity standards [124] | Conducted immunity testing to 10Vemf | V | 9 kHz - 230 MHz | EN IEC 61000-4-6:2023 |

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|---|---|---|---|---|---|
| | IT Equipment and Electrical Office equipment [124] | Information technology equipment | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | EN 60950-1:2006+A11:2009+A1:2010+A2:2013<br>Excluding:- 4.2.8 (CRTs)<br>4.3.12 (Flammable liquids)<br>4.3.13 (lasers)<br>4.7.3 (materials testing - high current arcing)<br>Annex U (insulating winding wire)<br>Annex Y (UV conditioning)<br>Annex AA (mandrel test)<br>Annex CC (IC currnt limiters)<br>Annex EE (shredders) |
| | | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 60950-1:2005+A1:2010+A2:2-13+A11:2009+A12:2011+A2:2013<br>Excluding:- 4.2.8 (CRTs)<br>4.3.12 (Flammable liquids)<br>4.3.13 (lasers)<br>4.7.3 (materials testing - high current arcing)<br>Annex U (insulating winding wire)<br>Annex Y (UV conditioning)<br>Annex AA (mandrel test)<br>Annex CC (IC currnt limiters)<br>Annex EE (shredders) |
| | Measurement and control equipment [124] | Electrical equipment for measurement, control and laboratory use | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m | EN 61010-1: 2001 |

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|---|---|---|---|---|
| | | | 0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | |
| | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | EN 61010-1: 2010+A1:2019<br>Excluding:- 10.5.3 Insulating materials<br>11.7 (Fluid pressure and leakage)<br>12.2.1 (ionising radiation)<br>12.3 (UV radiation)<br>12.5.2 (ultrasonic pressure)<br>12.6 (laser sources) |
| | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 61010: 2017<br>Excluding:- 10.5.3 Insulating materials<br>11.7 (Fluid pressure and leakage)<br>12.2.1 (ionising radiation)<br>12.3 (UV radiation)<br>12.5.2 (ultrasonic pressure)<br>12.6 (laser sources) |
| Medical electrical equipment - Part 1: General requirements [124] | Medical devices | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | EN 60601-1:1990 +A13:1996 |
| Medical electrical equipment - Part 1: General requirements for basic safety and essential performance [124] | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | EN 60601-1:2006 + A1:2013 + A12:2014 + A2:2021 + A13:2024 |

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|---|---|---|---|---|
| | Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | A,V,Hz,m,N,Lux,dB | 0V to10000V<br>0A to 600A<br>0Hz to 300Mhz<br>0m to 10m<br>0N to 800N<br>0lx to1500lx<br>50dB to 130dB | EN 60601-1-11:2010 |
| | | A,V,Hz,m,N,lx,dB | 0V to10000V<br>0A to 600A<br>0Hz to 300Mhz<br>0m to 10m<br>0N to 800N<br>0lx to 1500lx<br>50dB to 130dB | IEC 60601-1-11:2010 |
| | Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment [124] | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | EN 60601-1-11:2015+A1:2021<br>Excluding:- 8.8.4.2 (environmental stress)<br>9.52 (Cathode ray tubes)<br>9.6.3 (hand transmitted vibration)<br>9.7.5 (Pressure tests)<br>10.4 (laser and LED emissions)<br>11.2 (Fire prevention-Spark ignition)<br>11.6.7 (sterilization)<br>11.7 (biocompatibility)<br>12.4.5 (diagnostic or therapeutic radiation)<br>15.3.4 (lithium batteries)<br>15.4.3.4 (Temperature overload control devices PTC's) |

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|---|---|---|---|---|---|
| | | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 60601-1-11:2015+A1:2020<br>Excluding:- 8.8.4.2 (environmental stress)<br>9.52 (Cathode ray tubes)<br>9.6.3 (hand transmitted vibration)<br>9.7.5 (Pressure tests)<br>10.4 (laser and LED emissions)<br>11.2 (Fire prevention-Spark ignition)<br>11.6.7 (sterilization)<br>11.7 (biocompatibility)<br>12.4.5 (diagnostic or therapeutic radiation)<br>15.3.4 (lithium batteries)<br>15.4.3.4 (Temperature overload control devices PTC's) |
| | Medical electrical equipment - Part 1-8: General requirements forbasic safety and essential performance - Collateral Standard: General requirements,<br>tests and guidance for alarm systems inmedical electrical equipment and medical electrical systems [124] | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 60601-1-11:2015<br>Excluding:- 8.8.4.2 (environmental stress)<br>9.52 (Cathode ray tubes)<br>9.6.3 (hand transmitted vibration)<br>9.7.5 (Pressure tests)<br>10.4 (laser and LED emissions)<br>11.2 (Fire prevention-Spark ignition)<br>11.6.7 (sterilization)<br>11.7 (biocompatibility)<br>12.4.5 (diagnostic or therapeutic radiation)<br>15.3.4 (lithium batteries) |

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| | | | | | 15.4.3.4 (Temperature overload control devices PTC's) |
| | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance [124] | | A,V,Hz,m,N,Lux,dB | 0V-10000V<br>0A-600A<br>0Hz - 300Mhz<br>0m - 10m<br>0N- 800N<br>0lx - 1500lx<br>50dB - 130dB | IEC 60601-1:2005 + A1:2012+A2:2020 |
| 309 EMC - .01 Electrostatic discharge testing | EMC basic immunity standards [124] | Electrostatic discharge testing to 25kV | V | 500V to 25kV | EN 61000-4-2:1995 +A1:1998, +A2:2001 |
| | | | V | 500V to 25kV | IEC 61000-4-2:2008<br>EN 61000-4-2:2009 |
| | | | V | 500V to 25kV | IEC 61000-4-2:2025 |
| | | | V | 500V to 25kV | EN IEC 61000-4-2:2025 |
| 309 EMC - .02 Radiated immunity testing | | Radiated immunity testing to 20V/m | V | 27MHz to 6GHz | EN IEC 61000-4-3:2020 |
| | | | V | 27MHz to 6GHz | EN 61000-4-3:2006, A1:2008, A2:2010 |
| | EMC basic immunity standards [124] | | V | 27MHz to 6GHz | IEC 61000-4-3:2020 |
| 309 EMC - .03 Electrical fast transient testing | EMC basic immunity standards [124] | Electrical fast transient testing to 4.4 kV | V | 500 V to 4.4 kV | IEC 61000-4-4:2012 |

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|---|---|---|---|---|
| | | V | 500 V to 4.4 kV | EN 61000-4-4:2012 |
| | Electrical fast transient testing to 4.4kV | V | 500 V to 4.4 kV | EN 61000-4-4:1995, +A1:2000 +A2:2001 |
| | | V | 500 V to 4.4 kV | EN 61000-4-4:2007+A1:2010 |
| 309 EMC - .04 Surge testing | Surge testing to 4.4kV | V | 500V to 4.4kV | EN 61000-4-5:2014, A1:2017 |
| | | V | 500V to 4.4kV | EN 61000-4-5:2006 |
| | | V | 500V to 4.4kV | IEC 61000-4-5:2014+A1:2017 |
| 309 EMC - .05 Conducted immunity testing | Conducted immunity testing to 10Vemf | V | 9 kHz - 230 MHz | IEC 61000-4-6:2003 +A1:2004 |
| | | V | 9 kHz - 230 MHz | EN 61000-4-6:2014 |
| | | V | 9 kHz - 230 MHz | EN 61000-4-6:1996 +A1:2001 |
| | | V | 9 kHz - 230 MHz | EN 61000-4-6:2009 |
| | | V | 9 kHz - 230 MHz | IEC 61000-4-6:2013 |
| 309 EMC - .06 Magnetic field immunity testing | Magnetic field immunity testing to 300A/m | V | 1 A/m to 300 A/m | EN 61000-4-8:2010 |
| | | V | 1 A/m to 300 A/m | IEC 61000-4-8:2009 |
| 309 EMC - .07 Pulse magnetic field testing | Pulse magnetic field testing | V | 9 kHz - 40 GHz | EN 61000-4-9:2016 |
| | | V | 9 kHz - 40 GHz | IEC 61000-4-9:2016 |
| 309 EMC - .08 Voltage dips, short interruptions testing | Voltage dips, short interruptions testing | V | 5mS to 5 Seconds | EN 61000-4-11:2004+A1:2017 |

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| | | | V | 5mS to 5 Seconds | EN 61000-4-11:2020 |
| | | | V | 5mS to 5 Seconds | EN IEC 61000-4-11:2020 |
| | EMC basic immunity standards [124] | | V | 5mS to 5 Seconds | IEC 61000-4-11:2020 |
| 309 EMC - .09 Harmonics and interharmonics | EMC basic immunity standards [124] | Harmonics and interharmonics | V | 50Hz - 4kHz | EN 61000-4-13:2002+A1:2009 +A2:2016 |
| | | | V | 50Hz - 4kHz | IEC 61000-4-13:2002+A1:2009 +A2:2015 |
| | | | V | 50Hz - 4kHz | IEC 61000-4-13:2002+A1:2009 +A2:2015 |
| 309 EMC - .10 Automotive transients | | Automotive transients | V | 0V to 600V | ISO 7637-2:2004 +A1:2008 |
| | | | V | 0V to 600V | ISO 7637-2:2011 |
| 309 EMC - .12 Radiated immunity testing, near field | EMC Basic immunity standard [124] | Immunity to magnetic fields and radiated RF fields | A/m, V/m | 9kHz - 26MHz : 26MHz - 6GHz | IEC 61000-4-39:2017 |
| | | | A/m, V/m | 9kHz - 26MHz : 26MHz - 6GHz | EN 61000-4-39:2017 |

*The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratory's approved and documented procedures.*

*Note 1 - Range may be extended for the test*

*Note 2 – New parameters/tests may be added*
*Note 4 – Changes to equipment/kits where the underlying methodology does not change*

*For further details, please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.*

## Compliance Engineering Ireland Ltd - Dunshaughlin, Co. Meath (Head Office)

### Electrical Testing

**Category: B**

| Electrical testing field - Type of test | Test description | Equipment tested | Measurement units (e.g. Amp, V, Hz) | Range of measurement | Std. ref & SOP |
|---|---|---|---|---|---|
| 301 Electromagnetic compatibility - .01 Emission testing | EMF Basic Standards [124] | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) | V/m, A/m | DC to 50 GHz | EN IEC 62311:2020 |
| | | | V/m, A/m | DC to 50 GHz | EN 50364:2010 |
| | | | V/m, A/m | DC to 50 GHz | EN 50364:2018 |
| | | Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields | V/m, A/m | DC to 50 GHz | EN 62479:2010 |
| | | | V/m, A/m | DC to 50 GHz | EN 50663:2017 |
| | | | V/m, A/m | DC to 50 GHz | EN 50663:2025 |
| | | Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations for wireless telecommunication systems (110 MHz – 40 GHz) | V/m, A/m | DC to 50 GHz | EN 50383:2010 |
| | | Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz | V/m, A/m | DC to 50 GHz | EN 62369-1:2009 |
| | | | V/m, A/m | DC to 50 GHz | EN 62233:2008<br>IEC 62233:2005 |
| | | | V/m, A/m | DC to 50 GHz | EN 62493:2010 |

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| | | Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields | V/m, A/m | DC to 50 GHz | EN 50665:2017 |
| | | Generic standard to demonstrate the compliance of equipment used by workers with limits on exposure to electromagnetic fields | V/m, A/m | DC to 50 GHz | EN 50664:2017 |
| | | Human exposure to Electromagnetic Fields | V/m, A/m | DC to 50 GHz | ENV 50166-2 Jan 1995 |
| | | | V/m, A/m | DC to 50 GHz | ICNIRP Guidelines 1998 Health Physics, April 1998, Vol.74, No.4 |
| | | On the limitation of exposure of the general public in electromagnetic fields (0 Hz – 300 GHz) | V/m, A/m | DC to 50 GHz | 1999/519/EC Council Recommendation of 12 July 1989 |
| | | Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits | V/m, A/m | DC to 50 GHz | EN 50401:2017 |
| | | Product standard to demonstrate the compliance of radio base stations &fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency | V/m, A/m | DC to 50 GHz | EN 50385:2017 |
| | | Recommended practice for the measurements and computations of radio frequency electromagnetic fields with respect to human exposure to such fields | V/m, A/m | DC to 50 GHz | IEEE C 95.3.1:2010 |

*The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratory's approved and documented procedures.*

*Note 1 - Range may be extended for the test*
*Note 2 – New parameters/tests may be added*
*Note 4 – Changes to equipment/kits where the underlying methodology does not change*

*For further details, please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.*

## Compliance Engineering Ltd - Randalstown, Co. Antrim

### Electrical Testing

**Category: A**

| Electrical testing field - Type of test | Test description | Equipment tested | Measurement units (e.g. Amp, V, Hz) | Range of measurement | Std. ref & SOP |
|---|---|---|---|---|---|
| 301 Electromagnetic compatibility - .01 Emission testing | EMC Basic Standards | Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection | V | 50Hz - 4kHz | IEC 61000-3-3:2013+A1:2017 +A2:2021 |
| | | Limits for harmonic current emissions | V | 50Hz - 4kHz | IEC 61000-3-2:2018/ AMD1:2020 + AMD2:2024 |
| | EMC Basic Standards | Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection | V | 50Hz - 4kHz | IEC 61000-3-3:2013+A1:2019 +A2:2021 |
| | | | V | 50Hz - 4kHz | EN 61000-3-3:2013+A1:2019 +A2:2021 |
| | | Limits for harmonic current emissions | V | 50Hz - 4kHz | EN IEC 61000-3-2:2019 +A1:2021 +A2:2024 |
| | | Low voltage Electrical and electronic equipment | V | 9 kHz - 7 GHz | ANSI C63.4:2014 |
| | | Measurement methods for electromagnetic fields of household appliances and similar | V | 9 kHz - 7 GHz | EN 62233:2008 |

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|---|---|---|---|---|---|
| | | apparatus<br>with regard to human exposure | | | |
| | | Railway applications | V | 9 kHz - 7 GHz | IEC 62236-3-2:2018 |
| | | | V | 9 kHz - 7 GHz | EN 50121-3-2:2016 +A1:2019 |
| | | | V | 9 kHz - 7 GHz | IEC 62236-2:2018 |
| | | Unintentional Radiators | V | 9 kHz - 7 GHz | FCC CFR 47 Part 15: Subpart B |
| | EMC generic standard | Equipment used in residential, commercial and light industry | V | 9 kHz - 7 GHz | IEC 61000-6-1:2016 |
| | EMC generic standard | | V | 9 kHz - 7 GHz | EN IEC 61000-6-3:2021 |
| | | | V | 9 kHz - 7 GHz | EN IEC 61000-6-4:2019 |
| | | | V | 9 kHz - 7 GHz | IEC 61000-6-3:2020 |
| | | | V | 9 kHz - 7 GHz | EN IEC 61000-6-1:2019 |
| | | | V | 9 kHz - 7 GHz | IEC 61000-6-3:2020 |
| | EMC product standard | Automatic electrical controls for household and similar use | V | See 309.01 to 309.09 for ROM | EN IEC 60730-1:2024 +A11:2024 |
| | | Electrical equpment for measurement, control and laboratory use | V | See 309.01 to 309.09 for ROM | IEC 61326-1:2020 |
| | | EMC of multimedia equipment | V | 9 kHz - 40 GHz | EN 55032:2015, A11:2020 (excl audio and broadcast receiver equipment) |
| | | Luminaires | V | 9 kHz - 40 GHz | CISPR 15: 2018 +A1:2024 |

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| | | Medical electrical equipment | V | 9 kHz - 7 GHz | IEC 60601-2-10:2012 +A1:2016 +A2:2023 (EMC requirements) |
| | | | V | 9 kHz - 7 GHz | EN 60601-2-10:2015 +A1:2016 +A2:2024 (EMC requirements) |
| | | Radio equipment and services | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-52 V1.3.1 |
| | EMC product standard [124] | Industrial, scientific and medical equipment | V | 9 kHz - 7 GHz | CISPR 11: 2024 |
| | EMC product standard | Commercial Avionics | V | 9 kHz - 7 GHz | RTCA DO-160G Section 21 |
| | | EMC of multimedia equipment | V | 9 kHz - 7 GHz | CISPR 32:2015 +A1:2019 (excl audio and broadcast receiver equipment) |
| | | Household appliances, electric tools and similar apparatus | V | 9 kHz - 7 GHz | CISPR 14-1:2020 |
| | | | V | 9 kHz - 7 GHz | EN IEC 55014-1:2021 |
| | | Industrial, scientific and medical equipment | V | 9 kHz - 7 GHz | EN 55011:2016 +A1:2017 +A2:2021 +A11:2020 |
| | | | V | 9 kHz - 7 GHz | CISPR 11:2009 |
| | | | V | 9 kHz - 7 GHz | CISPR 11:2015+A1:2016+A2:2019 |
| | | Information technology equipment | V | 9 kHz - 7 GHz | AS/NZ CISPR 32:2015 +A1:2020 (excl audio and broadcast receiver equipment) |
| | | Luminaires | V | 9 kHz - 7 GHz | EN IEC 55015:2019, A11:2020 |

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|---|---|---|---|---|---|
| | | | V | 9 kHz - 7 GHz | CISPR 15: 2018 |
| | | Radio equipment and services | V | See 309.01 to 309.09 for ROM | EN 12895:2015+A1:2019 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v2.3.2 |
| | | Road traffic signal systems | V | See 309.01 to 309.09 for ROM | EN 50293:2012 |
| | | Road Vehicles | V | 9 kHz - 7 GHz | ECE Regulation 10.06 |
| | | Vehicles, boats and internal combustion engines | V | 9 kHz - 7 GHz | EN IEC 55025:2022 |
| | | | V | 9 kHz - 7 GHz | EN 55025:2022, CISPR 25:2021<br><br>CISPR 25: 2002 +COR1: 2004 |
| | | | V | 9 kHz - 7 GHz | EN 55012:2007 + A1:2009, CISPR 12:2007 +A1:2009 |
| | Radio product standard | Railway applications | V | 9 kHz - 7 GHz | EN 50121-2:2017 |
| 301 Electromagnetic compatibility - .02 Immunity testing | EMC product standard | | V | See 309.01 to 309.09 for ROM | EN 50121-4:2016+ A1:2019 |
| | EMC product standard | Alarm systems - (Fire, intruder and social alarm systems) | V | See 309.01 to 309.09 for ROM | EN 50130-4:2011 +A1:2014 |
| | | Alarm systems - (Intrusion and hold-up systems) | V | See 309.01 to 309.09 for ROM | EN 50131-1: 2006 +A1:2009+A2:2017+A3:2020 |

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|---|---|---|---|---|
| | | V | See 309.01 to 309.09 for ROM | EN 50131-2-2: 2021 |
| | | V | See 309.01 to 309.09 for ROM | EN 50131-2-4: 2020 |
| | | V | See 309.01 to 309.09 for ROM | EN 50131-2-6: 2008 |
| | | V | See 309.01 to 309.09 for ROM | EN 50131-3: 2009 |
| | | V | See 309.01 to 309.09 for ROM | EN 50131-4: 2019 |
| | | V | See 309.01 to 309.09 for ROM | EN 50131-6: 2017 +A1:2021 |
| | Automatic electrical controls for household and similar use | V | See 309.01 to 309.09 for ROM | IEC 60730-1:2022 |
| | Electrical equpment for measurement, control and laboratory use | V | See 309.01 to 309.09 for ROM | EN IEC 61326-1:2021 |
| | | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-4:2021 |
| | | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-5:2021 |
| | | V | See 309.01 to 309.09 for ROM | EN IEC 61326-2-6:2021 |
| | Electricalapparatus for the detection and measurement of combustible gases, toxic gases or oxygen | V | See 309.01 to 309.09 for ROM | EN 50270:2015 |
| | Equipment used in residential, commercial and light industry | V | See 309.01 to 309.09 for ROM | EN 61000-6-1:2019 |
| | Equipment used in industrial environment | V | See 309.01 to 309.09 for ROM | EN IEC 61000-6-2:2019 |
| | Household appliances, electrical tools and similar apparatus | V | See 309.01 to 309.09 for ROM | CISPR 14-2:2020 |
| | | V | See 309.01 to 309.09 for ROM | EN IEC 55014-2:2021 |

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| | | Information technology equipment | V | See 309.01 to 309.09 for ROM | EN 55024 :2010 +A1:2015 |
| | | | V | See 309.01 to 309.09 for ROM | EN 55035:2017, A11:2020 |
| | | | V | See 309.01 to 309.09 for ROM | CISPR 35:2016 |
| | | Medical electrical equipment | V | See 309.01 to 309.09 for ROM | EN 60601-1-2:2015+A1:2021 |
| | | | V | See 309.01 to 309.09 for ROM | IEC 60601-1-2:2014+A1:2020 |
| | | Power station and substation environment | V | See 309.01 to 309.11 for ROM | IEC 61000-6-5:2015 |
| | | | V | See 309.01 to 309.11 for ROM | EN 61000-6-5:2015 |
| | | Product family standard for automotive aftermarket electronic equipment in vehicles | V | See 301.01 and 301.02 for ROM | EN 50498:2010 |
| | | Radio equipment and services | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-1: v2.2.3 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-3:v2.3.0 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-50 V2.3.1 |
| | | | V | See 309.01 to 309.10 for ROM | ETSI EN 301 489-52 V1.2.1 |
| 302 Approval & performance tests - .02 Electrical appliances and accessories | EMC basic immunity standards | Conducted immunity testing to 10Vemf | V | 9 kHz - 230 MHz | EN IEC 61000-4-6:2023 |
| | | | V | 9 kHz - 230 MHz | IEC 61000-4-6:2023 |
| 309 EMC - .01 Electrostatic discharge testing | | Electrostatic discharge testing to 25kV | V | 500V to 25kV | IEC 61000-4-2:2025 |

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|---|---|---|---|---|---|
| | | | V | 500V to 25kV | EN IEC 61000-4-2:2025 |
| | EMC basic immunity standards | | V | 25kV | EN 61000-4-2:2009 |
| | | | V | 25kV | IEC 61000-4-2:2008 |
| 309 EMC - .02 Radiated immunity testing | EMC basic immunity standards | Radiated immunity testing to 20V/m | V | 27MHz to 6GHz | IEC 61000-4-3:2020 |
| | EMC basic immunity standards | Radiated electromagnetic energy from proximity transmitters | V | 9 kHz to 6 GHz | IEC 61000-4-39:2017 |
| | | Radiated immunity testing to 20V/m | V | 27MHz to 6GHz | EN IEC 61000-4-3:2020 |
| 309 EMC - .03 Electrical fast transient testing | | Electrical fast transient testing to 4kV | V | 4kV | IEC 61000-4-4:2012 |
| | | | V | 4kV | EN 61000-4-4:2012 |
| 309 EMC - .04 Surge testing | | Damped oscillatory wave immunity test | V | 3.3kV | IEC 61000-4-18:2019 |
| | | | V | 3.3kV | EN 61000-4-18:2019 |

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| | | Ring wave immunity test | V | 3.3kV | IEC 61000-4-12:2017 |
| | | | V | 3.3kV | EN 61000-4-12:2017 |
| | | Surge testing to 4kV | V | 4kV | EN 61000-4-5:2014, A1:2017 |
| | | | V | 4kV | IEC 61000-4-5:2014+A1:2017 |
| 309 EMC - .05 Conducted immunity testing | | Conducted immunity testing to 10Vemf | V | 9 kHz - 230 MHz | EN 61000-4-6:2014 |
| | | | V | 9 kHz - 230 MHz | IEC 61000-4-6:2013 |
| 309 EMC - .06 Magnetic field immunity testing | | Magnetic field immunity testing to 300A/m | V | 300 A/m | EN 61000-4-8:2010 |
| | | | V | 300 A/m | IEC 61000-4-8:2009 |
| | | Pulse magnetic field testing | V | 9 kHz - 7 GHz | EN 61000-4-9:2016 |
| 309 EMC - .07 Pulse magnetic field testing | | | V | 9 kHz - 7 GHz | IEC 61000-4-9:2016 |
| 309 EMC - .08 Voltage dips, short interruptions testing | EMC basic immunity standards | Voltage dips, short interruptions testing | V | 5mS to 5 Seconds | IEC 61000-4-11:2020 |
| | EMC basic immunity standards | | V | 5S | EN IEC 61000-4-11:2020 |
| 309 EMC - .11 Harmonics and interharmonics testing | | Harmonics and interharmonics | V | 50Hz - 4kHz | EN 61000-4-13:2003+A1:2009+A2:2016 |

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| | | | V | 50Hz - 4kHz | IEC 61000-4-13:2002+A1:2009+A2:2015 |
| 309 EMC - .12 Radiated immunity testing, near field | | Radiated electromagnetic energy from proximity transmitters | V | 9 kHz to 6 GHz | EN 61000-4-39:2017 |