

Schedule of Accreditation



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Trading As	
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Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
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, United Kingdom, BT41 3LP
2	Head Office	Clonross, Dunshaughlin, Meath, A85 XN59

Scope of Accreditation

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 Standard	Military Equipment	V	9 kHz - 7 GHz	MIL STD 461G RE102
	EMC Basic Standards	Limits for harmonic current emissions	V	50Hz - 4kHz	IEC 61000-3-2:2018/ AMD1:2020
	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
		Limits for harmonic current emissions	V	50Hz - 4kHz	EN IEC 61000-3-2:2019 +A1:2021

		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 apparatus with regard to human exposure	V	9 kHz - 7 GHz	EN 62233:2008	
		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
	EMC product standard	Electrical equipment for measurement, control and laboratory use	V	See 309.01 to 309.09 for ROM	IEC 61326-1:2020	
			Medical electrical equipment	V	9 kHz - 7 GHz	EN 60601-2-10:2012 +A1:2015 +A2:2023 (EMC requirements)
	EMC product standard	Commercial Avionics	V	9 kHz - 7 GHz	RTCA DO 160 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
		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
	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
	Vehicles, boats and internal combustion engines	V	9 kHz - 7 GHz	EN IEC 55025:2022
		V	9 kHz - 7 GHz	CISPR 25:2021
		V	9 kHz - 7 GHz	EN 55012:2007, 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
			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 equipment 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
Electrical apparatus 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
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
309 EMC - .01 Electrostatic discharge testing	EMC basic immunity standards	Electrostatic discharge testing to 25kV	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
		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
			V	50Hz - 4kHz	IEC 61000-4-13:2002+A1:2009+A2:2015

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	Road Vehicles	V	9 kHz - 40 GHz	ISO 7637-1:2015
	EMC Basic Standards	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
			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

		V	50Hz - 4kHz	IEC 61000-3-2:2018/ AMD1:2020
	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 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 generic standard	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	
EMC product standard	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	
	Radio equipment and services	V	See 309.01 to 309.09 for ROM	ETSI EN 301 489-1 - V2.2.3	
EMC product standard	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	
		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)
		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 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 60730-1:2016
	V	See 309.01 to 309.09 for ROM	EN 60730-1:2016 +A1:2019
cardiac defibrillators	V	9 kHz - 40 GHz	EN 60601-2-4:2010 Clause 202
Commercial Avionics	V	9 kHz - 40 GHz	RTCA DO 160 Section 21
Electrical equipment 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

	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
Electrical apparatus 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)
	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
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
	V	9 kHz - 40 GHz	EN 55014-1:2021
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
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
Medical electrical equipment	V	9 kHz - 40 GHz	EN 60601-2-25:2015 Clause 202
	V	9 kHz - 40 GHz	EN 60601-2-10:2012 +A1:2015 +A2:2023 (EMC requirements)
	V	See 309.01 to 309.09 for ROM	IEC 60601-1-2:2014+A1:2020
	V	See 309.01 to 309.09 for ROM	EN 60601-1-2:2015+A1:2021
Radio equipment and services	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
	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 V3.2.0
		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
	Railway applications	V	See 309.01 to 309.09 for ROM	EN 50121-4:2016+A1:2019
	Road Vehicles	V	9 kHz - 40 GHz	ECE Regulation 10
		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
		V	9 kHz - 40 GHz	EN 55012:2007, CISPR 12:2007 +A1:2009
Radio Basic Standards	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	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 product standard	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
		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
	Radio product standard	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
302 Approval & performance tests - .01 Radio communications equipment	Radio Basic Standards	Transmitters Used in Licensed Radio Services	dBm	9 kHz - 40 GHz	ANSI C63.26:2015 incl KDB publication 971168
	Radio product standard	2 GHz Personal Communications Services	dBm	9 kHz - 40 GHz	RSS-133 Issue 6 2013, Amendment 1 January 2018
		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
		Cellular Telephone Systems	dBm	9 kHz - 40 GHz	RSS-132 Iss.3 January 2013
		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 Network Devices	dBm	9 kHz - 40 GHz	RSS-247 Issue 2 February 2017
		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)
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
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 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 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	
	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
		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
302 Approval & performance tests - .02 Electrical appliances and accessories	Audio/video, information and communication technology equipment - Part 1 safety requirements	Audio/video, information and communication technology equipment	A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	EN 62368-1:2014/A11:2017
			A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	IEC 62368-1:2014/COR2:2015
			A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	IEC 62368-1:2018
			A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	EN IEC 62368-1:2020

IT Equipment and Electrical Office equipmnt	Information technology equipment	A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	EN 60950-1:2006+A11:2009+A1:2010+A2:2013 Excluding:- 4.2.8 (CRTs) 4.3.12 (Flammable liquids) 4.3.13 (lasers) 4.7.3 (materials testing - high current arcing) Annex U (insulating winding wire) Annex Y (UV conditioning) Annex AA (mandrel test) Annex CC (IC currnt limiters) Annex EE (shredders)
		A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	IEC 60950-1:2005+A1:2010+A2:2-13+A11:2009+A12:2011+A2:2013 Excluding:- 4.2.8 (CRTs) 4.3.12 (Flammable liquids) 4.3.13 (lasers) 4.7.3 (materials testing - high current arcing) Annex U (insulating winding wire) Annex Y (UV conditioning) Annex AA (mandrel test) Annex CC (IC currnt limiters) Annex EE (shredders)
Measurement and control equipment	Electrical equipment for measurement, control and laboratory use	A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	EN 61010-1: 2001
		A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A	EN 61010-1: 2010+A1:2019 Excluding:- 10.5.3 Insulating materials

				0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB	11.7 (Fluid pressure and leakage) 12.2.1 (ionising radiation) 12.3 (UV radiation) 12.5.2 (ultrasonic pressure) 12.6 (laser sources)
			A,V,HZ,m,N,lx,dB	0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB	IEC 61010: 2010+ AMD1:2016 Excluding:- 10.5.3 Insulating materials 11.7 (Fluid pressure and leakage) 12.2.1 (ionising radiation) 12.3 (UV radiation) 12.5.2 (ultrasonic pressure) 12.6 (laser sources)
	Medical electrical equipment - Part 1: General requirements	Medical devices	A,V,HZ,m,N,lx,dB	0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB	EN 60601-1:1990 +A13:1996
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		A,V,HZ,m,N,lx,dB	0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB	EN 60601-1:2006 + A1:2013 + A12:2014 + A2:2021 Excluding:- 8.8.4.2 (environmental stress) 9.5.2 (Cathode ray tubes) 9.6.3 (hand transmitted vibration) 9.7.5 (Pressure tests) 10.4 (laser and LED emissions) 11.2 (Fire prevention-Spark ignition) 11.6.7 (sterilization) 11.7 (biocompatibility) 12.4.5 (diagnostic or therapeutic radiation) 15.3.4 (lithium batteries) 15.4.3.4 (Temperature overload control devices PTC's)

<p>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</p>	<p>A,V,Hz,m,N,Lux,dB</p>	<p>0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB</p>	<p>EN 60601-1-11:2010</p>
	<p>A,V,Hz,m,N,Lux,dB</p>	<p>0V to10000V 0A to 600A 0Hz to 300Mhz 0m to10m 0N to 800N 0lx to 1500lx 50dB to 130dB</p>	<p>IEC 60601-1-11:2015+A1:2020</p>
	<p>A,V,Hz,m,N,lx,dB</p>	<p>0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB</p>	<p>IEC 60601-1-11:2010</p>
	<p>A,V,Hz,m,N,lx,dB</p>	<p>0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB</p>	<p>EN 60601-1-11:2015+A1:2021</p>
	<p>A,V,Hz,m,N,lx,dB</p>	<p>0V to10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to1500lx 50dB to 130dB</p>	<p>IEC 60601-1-8:2006 AMD2: 2020</p>
<p>Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for</p>			

	alarm systems inmedical electrical equipment and medical electrical systems				
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		A, V, Hz, m, N, lx, dB	0V to 10000V 0A to 600A 0Hz to 300Mhz 0m to 10m 0N to 800N 0lx to 1500lx 50dB to 130dB	IEC 60601-1:2005 + A1:2012+A2:2020 Excluding:- 8.8.4.2 (environmental stress) 9.52 (Cathode ray tubes) 9.6.3 (hand transmitted vibration) 9.7.5 (Pressure tests) 10.4 (laser and LED emissions) 11.2 (Fire prevention-Spark ignition) 11.6.7 (sterilization) 11.7 (biocompatibility) 12.4.5 (diagnostic or therapeutic radiation) 15.3.4 (lithium batteries) 15.4.3.4 (Temperature overload control devices PTC's)
309 EMC - .01 Electrostatic discharge testing	EMC basic immunity standards	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 EN 61000-4-2:2009
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
			V	27MHz to 6GHz	IEC 61000-4-3:2020
309 EMC - .03 Electrical fast transient testing		Electrical fast transient testing to 4.4 kV	V	500 V to 4.4 kV	IEC 61000-4-4:2012
			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
			V	5mS to 5 Seconds	EN 61000-4-11:2020
			V	5mS to 5 Seconds	EN IEC 61000-4-11:2020
			V	5mS to 5 Seconds	IEC 61000-4-11:2020
309 EMC - .09 Harmonics and interharmonics		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	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
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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	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
		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
		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	V/m, A/m	DC to 50 GHz	EN 62369-1:2009

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 62233:2008 IEC 62233:2005
	V/m, A/m	DC to 50 GHz	EN 62493:2010
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	V/m, A/m	DC to 50 GHz	EN 50385:2017

		stations & fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency			
		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