Liite 1, Akkreditoitu pätevyysalue
Päätöksen numero: T287/M21/2026
Akkreditoinnin vaatimusstandardi: SFS-EN ISO/IEC 17025:2017
Akkreditointialue: Testauslaboratoriot
Päätöspvm: 8.7.2026
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Toimipisteet

Toimipisteen nimi	Katuosoite	Postinumero	Postitoimipaikka	Maa	Toimipisteen lyhenne
Verkotan Oy	Elektroniikkatie 17	90590	Oulu	Suomi	Elektroniikkatie
Verkotan Oy	Konekuja 8	90620	Oulu	Suomi	Konekuja

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Akkreditoitu pätevyysalue

EMC/RF testaus/EMC

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	Wireless power transmission systems, using technologies other than radio frequency beam in 19-21 kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6765- 6795 kHz ranges: Essential requirements	FLX* ETSI EN 303 417	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	FLX* IEC/EN 61000-4-2	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques – Radiated, radio-frequency electromagnetic field immunity test	FLX* EN 61000-4-3	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	FLX* EN 61000-4-4	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	FLX* IEC/EN 61000-4-5	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radiofrequency fields	FLX* EN 61000-4-6	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	FLX* IEC/EN 61000-4-8	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	FLX* EN 61000-4-9	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	FLX* EN 61000-4-11	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Yleiset laitteet	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	FLX* CISPR 16-2-1 IEC/EN 55016-2-1	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	FLX* CISPR 16-2-3	Konekuja
220–240 VAC/ 50 Hz powered equipment	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	FLX* IEC/EN 61000-3-2	Konekuja
220–240 VAC/ 50 Hz powered equipment	Electromagnetic compatibility (EMC) Part 3-3: Limits - 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	FLX* IEC/EN 61000-3-3	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	FLX* IEC/EN 61000-6-1	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity standard for industrial environment	FLX* IEC/EN 61000-6-2	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for equipment in residential environments	FLX* IEC/EN 61000-6-3	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	FLX* IEC/EN 61000-6-4	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	FLX* IEC/EN 61000-6-8	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Yleiset laitteet	Electromagnetic compatibility (EMC) Industrial, scientific and medical equipment - Radiofrequency disturbance characteristics - Limits and methods of measurement	FLX* CISPR 11 IEC/EN 55011	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential equirements of article 3.2 of the Directive 2014/53/EU	FLX* IEC/EN 300 330	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	FLX* CISPR 16-1-4 IEC/EN 55016-1-4	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	FLX* CISPR 14-1 IEC/EN 55014-1	Konekuja
Yleiset laitteet	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	FLX* CISPR 14-2 IEC/EN 55014-2	Konekuja
Sähköinen valaistus ja samankaltaiset laitteet	Electromagnetic compatibility (EMC) Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment Emission requirements	FLX* CISPR 15 IEC/EN 55015	Konekuja
Tietotekniikan laitteet	Electromagnetic compatibility (EMC) Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	FLX* CISPR 22 IEC/EN 55022	Konekuja
Multimedialaitteet	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Emission requirements	FLX* CISPR 32 IEC/EN 55032	Konekuja
Multimedialaitteet	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Immunity requirements	FLX* CISPR 35 IEC/EN 55035	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Sähköinen valaistus ja samankaltaiset laitteet	Electromagnetic compatibility (EMC) Equipment for general lighting purposes - EMC immunity requirements	FLX* IEC/EN 61547	Konekuja
Rakennuslaitteistot. mekatroniset sylinterit	Electromagnetic compatibility (EMC) Building hardware - Mechatronic cylinders - Requirements and test methods	FLX* IEC/EN 15684 4.2.6 ESD	Konekuja
Rakennuslaitteistot. mekatroniset sylinterit	Electromagnetic compatibility (EMC) Building hardware - Mechatronic door furniture - Requirements and test methods	FLX* IEC/EN 16867 4.2.10 ESD requirements 4.2.12 Voltage drop protection	Konekuja
Lyhyen kantaman laitteet	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;	FLX* IEC/EN 300 220-1 Limited to unwanted spurious emissions	Konekuja
Laajakaistaiset lähetysjärjestelmät	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	FLX* ETSI EN 300 328	Konekuja
Lyhyen kantaman laitteet	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* IEC/ETSI EN 300 440 4.3.5 Spurious radiations	Konekuja
Langattomasti kommunikoivat laitteet	Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-1	Konekuja
Lyhyen kantaman laitteet	Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-3	Konekuja
Laajakaistaiset tiedonsiirtojärjestelmät	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-17	Konekuja
ROMES ja GNSS	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for	FLX* IEC/ETSI EN 301 489-19	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
	Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU		
Tukiasemat / apulaitteet	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-50	Konekuja
Matkapuhelinlaitteet, apulaitteet	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-52 Limitation: EMC room measurement length 3m	Konekuja
Matkapuhelinlaitteet	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* IEC/ETSI EN 301 511 Spurious emissions, clauses 5.2.16 and 5.2.17	Konekuja
Langattomasti kommunikoivat laitteet	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* IEC/ETSI EN 301 893 Limited to radiated spurious emissions	Konekuja
Matkapuhelinlaitteet	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	FLX* ETSI EN 301 908-1 Limited to radiated spurious emissions	Konekuja
Matkapuhelinlaitteet	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	FLX* ETSI EN 301 908-13 Limited to radiated spurious emissions	Konekuja
Tukiasemat	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	FLX* IEC/ETSI EN 301 908-14 Limited to radiated spurious emissions	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
GNSS	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum	FLX* IEC/ETSI EN 303 413 5.5 Receiver spurious emissions	Konekuja
Yleiset laitteet	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 ANSI C63.4-2014+C63.4a-2017	Konekuja
Yleiset laitteet	Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart B - Unintentional Radiators	CFR 47 FCC Part 15, Subpart B, 2020	Konekuja
Ulkoiset virtalähteet	Innovation, Science and Economic Development Canada, Spectrum Management and Telecommunications, Interference-Causing Equipment Standard, Information Technology Equipment (including Digital Apparatus)	FLX* ICES-003	Konekuja
Lääketieteelliset sähkölaitteet	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests (IEC 60601-1-2:2014 + IEC 60601-1-2:2014/A1:2020)	FLX* IEC/EN 60601-1-2 Except proximity magnetic fields (IEC/EN 61000-4-39) and electrical transient conduction along supply lines (ISO 7637-2)	Konekuja
Radioaaltoja tuottavat laitteet	Procedures for Compliance Testing of Unlicensed Wireless Devices Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart C - Intentional Radiators	ANSI C63.10-2013 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 CFR 47 Part 15, Subpart C	Konekuja
Teolliset, tieteelliset ja lääketieteelliset laitteet	Methods of measurements of radio noise emissions from industrial scientific and medical equipment	FCC/OET MP–5:1986-02 CFR 47 FCC Part 18	Konekuja
Radiolaitteet	General Requirements for Compliance of Radio Apparatus	FLX* RSS-Gen	Konekuja
Radiolaitteet	License-Exempt Radio Apparatus: Category I Equipment	FLX* RSS-210	Konekuja
Radiolaitteet	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	FLX* RSS-247	Konekuja

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Yleiset laitteet	Industrial, Scientific and Medical (ISM) Equipment	FLX* ICES-001	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	FLX* IEC/EN 61326-1	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	FLX* IEC/EN 61326-2-1	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems	FLX* IEC/EN 61326-2-2	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	FLX* IEC/EN IEC 61326-2-3	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	FLX* IEC/EN 61326-2-4	Konekuja
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	FLX* IEC/EN 61326-2-5	Konekuja

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Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Yleiset laitteet	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	FLX* IEC/EN 61326-2-6	Konekuja
Lääketieteelliset sähkölaitteet	Medical electrical equipment - Part 4-2: Guidance and interpretation - Electromagnetic immunity: performance of medical electrical equipment and medical electrical systems	FLX* IEC/EN 60601-4-2	Konekuja
Yleiset laitteet	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz with power levels ranging up to 500 mW e.r.p.; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	FLX* ETSI EN 300 220-2	Konekuja

EMC/RF testaus/Kyberturvallisuus

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Radiolaitteet	Common security requirements for radio equipment - Part 1: Internet connected radio equipment	FLX* EN 18031-1	Elektroniikkatie
Radiolaitteet	Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment	FLX* EN 18031-2	Elektroniikkatie

EMC/RF testaus/RF

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	User Equipment (UE) / Mobile Station (MS) Over-The-Air (OTA) antenna performance; Conformance testing	FLX* 3GPP TS 34.114	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Measurements of User Equipment (UE) radio performances for LTE/UMTS terminals; Total Radiated Power (TRP) and Total Radiated Sensitivity (TRS) test methodology	FLX* 3GPP TR 37.902	Elektroniikkatie

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	Measurements of radio performances for UMTS terminals in speech mode	FLX* 3GPP TR 25.914	Elektroniikkatie
Langattomasti kommunikoivat laitteet	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Over The Air (OTA) performance; Conformance testing	FLX* 3GPP TS 37.544 6. Transmitter performance 7. Receiver performance	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	FLX* IEC/EN 301 908-2 4.2.14 Receiver total radiated sensitivity (TRS) 4.2.15 Total radiated power (TRP)	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	FLX* IEC/EN 301 908-13 4.2.13 Receiver total radiated sensitivity (TRS) 4.2.13 Total radiated power (TRP)	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 23: Active Antenna System (AAS) Base Station (BS)	FLX* IEC/EN 301 908-23 4.3.17 Radiated transmit power 4.3.24 OTA sensitivity	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Harmonised Standard for access to radio spectrum; Part 24: New Radio (NR) Base Stations (BS)	FLX* IEC/EN 301 908-24 4.3.16 Radiated Transmit Power 4.3.24 OTA sensitivity	Elektroniikkatie
Tukiasema ja oheislaitteet	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Active Antenna System (AAS) Base Station (BS) conformance testing Part 2: Radiated conformance testing	FLX* 3GPP TS 37.145-2 6.2 Radiated transmit power; 7.2 OTA sensitivity	Elektroniikkatie
Tukiasema ja oheislaitteet	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Base Station (BS) conformance testing - Part 2: Radiated conformance testing	FLX* 3GPP TS 38.141-2 6.2 Radiated transmit power; 7.2 OTA sensitivity	Elektroniikkatie
Radiolaitteet	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* EN 303 413 excluding radiated spurious emissions test	Elektroniikkatie

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and electromagnetic Fields (up to 300 GHz)	ICNIRP 1998 ICNIRP 2020	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	FLX* EN 50360	Elektroniikkatie
Radiolaitteet	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100GHz), when placed on the market	FLX* EN 50385	Elektroniikkatie
Radiolaitteet	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)	FLX* EN 50663	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	FLX* EN 50665	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	FLX* EN 50566	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (frequency range of 300 MHz to 6 GHz)	FLX* IEC/EN 62209-1	Elektroniikkatie

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 300 MHz to 6 GHz)	FLX* IEC/EN 62209-2	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques	IEEE 1528-2013	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)	IEC/EN/IEEE 62209-1528:2021	Elektroniikkatie
Radiolaitteet	Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure	FLX* IEC/EN 62232	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	FLX* IEC/EN 62311	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	FLX* IEC/EN 62479	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102	FLX* RSS-102.NS.MEAS	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	FLX* RSS-102	Elektroniikkatie

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.1-2019	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.3-2021	Elektroniikkatie
Langattomasti kommunikoivat laitteet	EU Council Recommendation of 12 July 1999 in the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	1999/519/EC	Elektroniikkatie
Radiolaitteet	Radiofrequency radiation exposure evaluation: Mobile devices.	47 CFR § 2.1091:1998	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Radiofrequency Radiation Exposure Evaluation: Portable Devices	47CFR §2.1093:1998	Elektroniikkatie
Langattomasti kommunikoivat laitteet	RF Exposure	FCC Published RF Exposure KDB Procedures	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems – Models, instrumentation, measurement and computational methods and procedures (frequency range of 3 kHz to 30 MHz)	FLX* EN/IEC/ IEEE 63184	Elektroniikkatie
Lyhyen kantaman laitteet	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency identification and similar systems	FLX* IEC/EN 62369-1	Elektroniikkatie
Langattomasti kommunikoivat laitteet	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102	FLX* RSS-102.SAR.MEAS	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IEEE Recommended Practice for Antenna Measurements	FLX* IEEE Std 149	Elektroniikkatie
Langattomasti kommunikoivat laitteet	IEEE Recommended Practice for Near-Field Antenna Measurements	FLX* IEEE Std 1720	Elektroniikkatie

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Langattomasti kommunikoivat laitteet	NGMN Recommendations for Base Station Antennas	FLX* V13.0	Elektroniikkatie

Sähkölaitteiden ja tarvikkeiden testaus/Elektroniikka/Audio- ja videolaitteet sekä tieto- ja tietoliikennetekniikan laitteet

Testattava materiaali / tuote	Testattava komponentti / parametri / ominaisuus	Testausmenetelmä / standardi / tekniikka	Toimipiste
Audio/video, informaatio- ja kommunikaatioteknologialaitteet	Turvallisuustestaus	Part 1: Safety requirements; IEC/EN/ 62368-1:2014, , Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.3, 10.6.4, , 10.6.5.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.5, Annex Q, Annex R, Annex S, Annex U	Elektroniikkatie
Audio/video, informaatio- ja kommunikaatioteknologialaitteet	Turvallisuustestaus	Part 1: Safety requirements; IEC 62368-1:2023, BS/EN/IEC 62368-1:2024, UL/CSA 62368-1 4th edition. Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.4, 10.6.5, 10.6.6.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.4.2, Annex Q, Annex R, Annex S, Annex U, Annex X, Annex Y.3.2, Annex Y.3.3, Annex Y.3.4, Annex Y.4.2, Annex Y.4.3, Annex Y.4.4, Annex Y.4.5, Annex Y.5.3, Annex Y.5.5.2, Annex Y.5.5.3	Elektroniikkatie

*FLX: Menetelmän osa, johon mukautuvuus kohdentuu. Tarkka lista mukautuvan pätevyysalueen menetelmistä on saatavilla toimijalta.

T287, Verkotan Oy

Sites

Site name	Street address	Postalcode	City	Country	Site short name
Verkotan Oy	Elektroniikkatie 17	90590	Oulu	Finland	Elektroniikkatie
Verkotan Oy	Konekuja 8	90620	Oulu	Finland	Konekuja

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Accreditation scope

EMC/RF testing/EMC

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Wireless devices	Wireless power transmission systems, using technologies other than radio frequency beam in 19-21 kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6765- 6795 kHz ranges: Essential requirements	FLX* ETSI EN 303 417	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	FLX* IEC/EN 61000-4-2	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques – Radiated, radio-frequency electromagnetic field immunity test	FLX* EN 61000-4-3	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	FLX* EN 61000-4-4	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	FLX* IEC/EN 61000-4-5	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radiofrequency fields	FLX* EN 61000-4-6	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	FLX* IEC/EN 61000-4-8	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	FLX* EN 61000-4-9	Konekuja
General devices	Electromagnetic compatibility (EMC)	FLX* EN 61000-4-11	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
	Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase		
General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	FLX* CISPR 16-2-1 IEC/EN 55016-2-1	Konekuja
General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	FLX* CISPR 16-2-3	Konekuja
220–240 VAC/ 50 Hz powered equipment	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	FLX* IEC/EN 61000-3-2	Konekuja
220–240 VAC/ 50 Hz powered equipment	Electromagnetic compatibility (EMC) Part 3-3: Limits - 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	FLX* IEC/EN 61000-3-3	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	FLX* IEC/EN 61000-6-1	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity standard for industrial environment	FLX* IEC/EN 61000-6-2	Konekuja
General devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for equipment in residential environments	FLX* IEC/EN 61000-6-3	Konekuja
General devices	Electromagnetic compatibility (EMC)	FLX* IEC/EN 61000-6-4	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
	Part 6-4: Generic standards - Emission standard for industrial environments		
General devices	Electromagnetic compatibility (EMC) Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	FLX* IEC/EN 61000-6-8	Konekuja
General devices	Electromagnetic compatibility (EMC) Industrial, scientific and medical equipment - Radiofrequency disturbance characteristics - Limits and methods of measurement	FLX* CISPR 11 IEC/EN 55011	Konekuja
General device	Electromagnetic compatibility (EMC) 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; Harmonised Standard covering the essential equirements of article 3.2 of the Directive 2014/53/EU	FLX* IEC/EN 300 330	Konekuja
General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	FLX* CISPR 16-1-4 IEC/EN 55016-1-4	Konekuja
General devices	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	FLX* CISPR 14-1 IEC/EN 55014-1	Konekuja
General devices	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	FLX* CISPR 14-2 IEC/EN 55014-2	Konekuja
Electrical lighting and similar equipment	Electromagnetic compatibility (EMC) Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment Emission requirements	FLX* CISPR 15 IEC/EN 55015	Konekuja
Information technology equipment	Electromagnetic compatibility (EMC) Information technology equipment - Radio disturbance characteristics - Limits and	FLX* CISPR 22 IEC/EN 55022	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
	methods of measurement		
Multimedia equipment	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Emission requirements	FLX* CISPR 32 IEC/EN 55032	Konekuja
Multimedia equipment	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Immunity requirements	FLX* CISPR 35 IEC/EN 55035	Konekuja
Electrical lighting and similar equipment	Electromagnetic compatibility (EMC) Equipment for general lighting purposes - EMC immunity requirements	FLX* IEC/EN 61547	Konekuja
Building hardware. mechatronic cylinders	Electromagnetic compatibility (EMC) Building hardware - Mechatronic cylinders - Requirements and test methods	FLX* IEC/EN 15684 4.2.6 ESD	Konekuja
Building hardware. mechatronic cylinders	Electromagnetic compatibility (EMC) Building hardware - Mechatronic door furniture - Requirements and test methods	FLX* IEC/EN 16867 4.2.10 ESD requirements 4.2.12 Voltage drop protection	Konekuja
Short range devices (SRD)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;	FLX* IEC/EN 300 220-1 Limited to unwanted spurious emissions	Konekuja
Wideband transmission systems	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	FLX* ETSI EN 300 328	Konekuja
Short range devices (SRD)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* IEC/ETSI EN 300 440 4.3.5 Spurious radiations	Konekuja
Wireless devices	Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-1	Konekuja
Short range devices (SRD)	Electromagnetic compatibility (EMC) standard for radio equipment and	FLX* IEC/ETSI EN 301 489-3	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
	services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility		
Broadband data transmission systems	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-17	Konekuja
ROMES and GNSS	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	FLX* IEC/ETSI EN 301 489-19	Konekuja
BS / ancillary equipment	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-50	Konekuja
Cellular devices, ancillary equipment	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility	FLX* IEC/ETSI EN 301 489-52 Limitation: EMC room measurement length 3m	Konekuja
Cellular devices	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* IEC/ETSI EN 301 511 Spurious emissions, clauses 5.2.16 and 5.2.17	Konekuja
Wireless device	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* EN 301 893 Limited to radiated spurious emissions	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Cellular devices	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	FLX* ETSI EN 301 908-1 Limited to radiated spurious emissions	Konekuja
Cellular devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	FLX* ETSI EN 301 908-13 Limited to radiated spurious emissions	Konekuja
BS	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	FLX* IEC/ETSI EN 301 908-14 Limited to radiated spurious emissions	Konekuja
GNSS	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum	FLX* IEC/ETSI EN 303 413 5.5 Receiver spurious emissions	Konekuja
General devices	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 ANSI C63.4-2014+C63.4a-2017	Konekuja
General devices	Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart B - Unintentional Radiators	CFR 47 FCC Part 15, Subpart B, 2020	Konekuja
External power supplies	Innovation, Science and Economic Development Canada, Spectrum Management and Telecommunications, Interference-Causing Equipment Standard, Information Technology Equipment (including Digital Apparatus)	FLX* ICES-003	Konekuja
Medical electrical equipment	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests (IEC 60601-1-2:2014 + IEC 60601-1-2:2014/A1:2020)	FLX* IEC/EN 60601-1-2 Except proximity magnetic fields (IEC/EN 61000-4-39) and electrical transient conduction along supply lines (ISO 7637-2)	Konekuja

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Intentional radiators	Procedures for Compliance Testing of Unlicensed Wireless Devices Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart C - Intentional Radiators	ANSI C63.10-2013 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 CFR 47 Part 15, Subpart C	Konekuja
Industrial, Scientific, and Medical Equipment	Methods of measurements of radio noise emissions from industrial scientific and medical equipmen	FCC/OET MP–5:1986-02 CFR 47 FCC Part 18	Konekuja
Radio devices	General Requirements for Compliance of Radio Apparatus	FLX* RSS-Gen	Konekuja
Radio devices	License-Exempt Radio Apparatus: Category I Equipment	FLX* RSS-210	Konekuja
Radio devices	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	FLX* RSS-247	Konekuja
General devices	Industrial, Scientific and Medical (ISM) Equipment	FLX* ICES-001	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	FLX* IEC/EN 61326-1	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	FLX* IEC/EN 61326-2-1	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems	FLX* IEC/EN 61326-2-2	Konekuja

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Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	FLX* IEC/EN IEC 61326-2-3	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	FLX* IEC/EN 61326-2-4	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	FLX* IEC/EN 61326-2-5	Konekuja
General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	FLX* IEC/EN 61326-2-6	Konekuja
Medical electrical equipment	Medical electrical equipment - Part 4-2: Guidance and interpretation - Electromagnetic immunity: performance of medical electrical equipment and medical electrical systems	FLX* IEC/EN 60601-4-2	Konekuja
General devices (SRD)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz with power levels ranging up to 500 mW e.r.p.; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	FLX* ETSI EN 300 220-2	Konekuja

EMC/RF testing/Cybersecurity

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Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Radio devices	Common security requirements for radio equipment - Part 1: Internet connected radio equipment	FLX* EN 18031-1	Elektroniikkatie
Radio devices	Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment	FLX* EN 18031-2	Elektroniikkatie

EMC/RF testing/RF

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Wireless devices	User Equipment (UE) / Mobile Station (MS) Over-The-Air (OTA) antenna performance; Conformance testing	FLX* 3GPP TS 34.114	Elektroniikkatie
Wireless devices	Measurements of User Equipment (UE) radio performances for LTE/UMTS terminals; Total Radiated Power (TRP) and Total Radiated Sensitivity (TRS) test methodology	FLX* 3GPP TR 37.902	Elektroniikkatie
Wireless devices	Measurements of radio performances for UMTS terminals in speech mode	FLX* 3GPP TR 25.914	Elektroniikkatie
Wireless devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Over The Air (OTA) performance; Conformance testing	FLX* 3GPP TS 37.544 6. Transmitter performance 7. Receiver performance	Elektroniikkatie
Wireless devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	FLX* IEC/EN 301 908-2 4.2.14 Receiver total radiated sensitivity (TRS) 4.2.15 Total radiated power (TRP)	Elektroniikkatie

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Wireless devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	FLX* IEC/EN 301 908-13 4.2.13 Receiver total radiated sensitivity (TRS) 4.2.13 Total radiated power (TRP)	Elektroniikkatie
Wireless devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 23: Active Antenna System (AAS) Base Station (BS)	FLX* IEC/EN 301 908-23 4.3.17 Radiated transmit power 4.3.24 OTA sensitivity	Elektroniikkatie
Wireless devices	Harmonised Standard for access to radio spectrum; Part 24: New Radio (NR) Base Stations (BS)	FLX* IEC/EN 301 908-24 4.3.16 Radiated Transmit Power 4.3.24 OTA sensitivity	Elektroniikkatie
Base station and ancillary equipment	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Active Antenna System (AAS) Base Station (BS) conformance testing Part 2: Radiated conformance testing	FLX* 3GPP TS 37.145-2 6.2 Radiated transmit power; 7.2 OTA sensitivity	Elektroniikkatie
Base station and ancillary equipment	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Base Station (BS) conformance testing - Part 2: Radiated conformance testing	FLX* 3GPP TS 38.141-2 6.2 Radiated transmit power; 7.2 OTA sensitivity	Elektroniikkatie
Radio devices	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	FLX* EN 303 413 excluding radiated spurious emissions test	Elektroniikkatie
Wireless devices	Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and electromagnetic Fields (up to 300 GHz)	ICNIRP 1998 ICNIRP 2020	Elektroniikkatie
Wireless devices	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	FLX* EN 50360	Elektroniikkatie

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Radio devices	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100GHz), when placed on the market	FLX* EN 50385	Elektroniikkatie
Radio devices	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)	FLX* EN 50663	Elektroniikkatie
Wireless devices	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	FLX* EN 50665	Elektroniikkatie
Wireless devices	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	FLX* EN 50566	Elektroniikkatie
Wireless devices	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (frequency range of 300 MHz to 6 GHz)	FLX* IEC/EN 62209-1	Elektroniikkatie
Wireless devices	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 300 MHz to 6 GHz)	FLX* IEC/EN 62209-2	Elektroniikkatie
Wireless devices	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques	IEEE 1528-2013	Elektroniikkatie

Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Wireless devices	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)	IEC/EN/IEEE 62209-1528:2021	Elektroniikkatie
Radio devices	Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure	FLX* IEC/EN 62232	Elektroniikkatie
Wireless devices	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	FLX* IEC/EN 62311	Elektroniikkatie
Wireless devices	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	FLX* IEC/EN 62479	Elektroniikkatie
Wireless devices	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102	FLX* RSS-102.NS.MEAS	Elektroniikkatie
Wireless devices	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	FLX* RSS-102	Elektroniikkatie
Wireless devices	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.1-2019	Elektroniikkatie
Wireless devices	IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.3-2021	Elektroniikkatie
Wireless devices	EU Council Recommendation of 12 July 1999 in the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	1999/519/EC	Elektroniikkatie

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Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Radio devices	Radiofrequency radiation exposure evaluation: Mobile devices.	47 CFR § 2.1091:1998	Elektroniikkatie
Wireless devices	Radiofrequency Radiation Exposure Evaluation: Portable Devices	47CFR §2.1093:1998	Elektroniikkatie
Wireless devices	RF Exposure	FCC Published RF Exposure KDB Procedures	Elektroniikkatie
Wireless devices	Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems – Models, instrumentation, measurement and computational methods and procedures (frequency range of 3 kHz to 30 MHz)	FLX* EN/IEC/ IEEE 63184	Elektroniikkatie
Short range devices (SRD)	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency identification and similar systems	FLX* IEC/EN 62369-1	Elektroniikkatie
Wireless devices	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102	FLX* RSS-102.SAR.MEAS	Elektroniikkatie
Wireless devices	IEEE Recommended Practice for Antenna Measurements	FLX* IEEE Std 149	Elektroniikkatie
Wireless devices	IEEE Recommended Practice for Near-Field Antenna Measurements	FLX* IEEE Std 1720	Elektroniikkatie
Wireless devices	NGMN Recommendations for Base Station Antennas	FLX* V13.0	Elektroniikkatie

Testing of electrical equipment and accessories/Electronic Equipments/Audio/video, information and communication technology equipment

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Material / product tested	Component / parameter / characteristic tested	Test method / standard specification / techniques	Site
Audio/video, information and communication technology equipment	Safety testing	Part 1: Safety requirements; IEC/EN/ 62368-1:2014, , Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.3, 10.6.4, , 10.6.5.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.5, Annex Q, Annex R, Annex S, Annex U	Elektroniikkatie
Audio/video, information and communication technology equipment	Safety testing	Part 1: Safety requirements; IEC 62368-1:2023, BS/EN/IEC 62368-1:2024, UL/CSA 62368-1 4th edition. Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.4, 10.6.5, 10.6.6.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.4.2, Annex Q, Annex R, Annex S, Annex U, Annex X, Annex Y.3.2, Annex Y.3.3, Annex Y.3.4, Annex Y.4.2, Annex Y.4.3, Annex Y.4.4, Annex Y.4.5, Annex Y.5.3, Annex Y.5.5.2, Annex Y.5.5.3	Elektroniikkatie

*FLX: The part of the method where the adaptation is targeted. A detailed list of the methods of the adaptive qualification area is available from the operator.