

# Deutsche Akkreditierungsstelle GmbH

## Anlage zur Akkreditierungsurkunde D-PL-12140-01-01 nach DIN EN ISO/IEC 17025:2018

**Gültig ab: 12.09.2019**

Ausstellungsdatum: 12.09.2019

Urkundeninhaber:

**7layers GmbH**  
**Borsigstraße 11, 40880 Ratingen**

Prüfungen in den Bereichen:

**Elektromagnetische Verträglichkeit (EMV), Telekommunikation (TK)**

**Innerhalb der mit \* gekennzeichneten Akkreditierungsbereiche ist dem Prüflaboratorium, ohne dass es einer vorherigen Information und Zustimmung der DAkkS bedarf, die Anwendung der hier aufgeführten genormten oder ihnen gleichzusetzenden Prüfverfahren mit unterschiedlichen Ausgabeständen gestattet.**

**Das Prüflaboratorium verfügt über eine aktuelle Liste aller Prüfverfahren im flexiblen Akkreditierungsbereich.**

Anlage zur Akkreditierungsurkunde D-PL-12140-01-01

Fachbereich	Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens <sup>1</sup> (ggf. Abweichungen / Modifizierungen von Norm- verfahren angeben)	Prüfbereich / Einschränkung
TK / Mobile Com- munications	ETSI EN 301 419-1 * V4.1.1 (2000-04)	Digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM); Part 1: Mobile stations in the GSM 900 and DCS 1 800 bands; Access (GSM 13.01 version 4.1.1)	
TK / Mobile Com- munications	ETSI EN 301 419-2 * V5.1.1 (2000-04)	Digital cellular telecommunications system (Phase 2+); Attachment requirements for Global System for Mobile communications (GSM); High Speed Circuit Switched Data (HSCSD) Multislot Mobile Stations; Access (GSM 13.34 version 5.1.1 Release 1996)	
TK / Mobile Com- munications	ETSI EN 301 419-3 * V5.0.2 (1999-11)	Digital cellular telecommunications system (Phase 2+); Attachment requirements for Global System for Mobile communications (GSM); Advanced Speech Call Items (ASCI); Mobile Stations; Access (GSM 13.68 version 5.0.2 Release 1996)	
TK / Mobile Com- munications	ETSI EN 301 419-7 * V5.1.1 (2000-08)	Digital cellular telecommunications system (Phase 2+); Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access (GSM 13.67 version 5.1.1 Release 1996)	
TK / Mobile Com- munications	ETSI EN 301 420 * V4.0.1 (1999-12)	Digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM); Mobile stations in the DCS 1 800 band and additional GSM 900 band; Telephony (GSM 13.02 version 4.0.1)	
TK / Mobile Com- munications	ETSI EN 301 511 * V12.1.1 (2015-06)	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC) (GSM13.11)	

<sup>1</sup> Im Titel des Hausverfahrens sind Methode und Prüfgegenstand zu nennen

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TK / Mobile Com- munications	ETSI EN 301 511 * V12.5.1 (2017-03)	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Mobile Com- munications	3GPP TS 51.010-1 * V13.8.0 (2019-03)  (ETSI TS 151 010-1 * V13.7.0 (2018-07))	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification	
TK / Mobile Com- munications	3GPP TS 51.010-2 * V13.10.0 (2019-03)  (ETSI TS 151 010-2 * V13.10.0 (2019-05))	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	
TK / Mobile Com- munications	3GPP TS 51.010-4 * V15.1.0 (2018-12)  (ETSI TS 151 010-4 * V15.1.0 (2019-04))	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification	
TK / Mobile Com- munications	3GPP TS 51.010-5 * V10.18.0 (2019-03)  (ETSI TS 151 010-5 * V10.18.0 (2019-05))	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 5: Inter-Radio-Access- Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS)	
TK / Mobile Com- munications	PTCRB Bearer- Agnostic TTY Test Specification RFT 062 V2.0 (2013-08-06)	PTCRB Bearer-Agnostic TTY Test Specification	
TK / Mobile Com- munications	ETSI EN 301 908-1 * V11.1.1 (2016-07)	IMT cellular networks; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	
TK / Mobile Com- munications	ETSI EN 301 908-2 * V11.1.2 (2017-08)	IMT cellular networks; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	

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TK / Mobile Com- munications	ETSI EN 301 908-13* V11.1.2 (2017-07)	IMT cellular networks; Harmonized Standard covering the essential requirement of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	
TK / Mobile Com- munications	3GPP TS 25.101 * V16.1.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) radio transmission and reception (FDD) (Release 16)	
TK / Mobile Com- munications	3GPP TS 26.131 * V15.1.0 (2018-09)	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Terminal acoustic characteristics for telephony; Requirements (Release 15)	
TK / Mobile Com- munications	3GPP TS 26.132 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Speech and video telephony terminal acoustic test specification (Release 16)	
TK / Mobile Com- munications	ETSI TS 102 230-1 * V14.1.0 (2019-05)	Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 1 Terminal features (Release 14)	
TK / Mobile Com- munications	3GPP TS 31.120 * V15.0.0 (2018-07)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; UICC-Terminal Interface; Physical, electrical and logical test specification (Release 15)	
TK / Mobile Com- munications	3GPP TS 31.121 * V15.3.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification (Release 15)	
TK / Mobile Com- munications	3GPP TS 31.122 * V15.0.0 (2018-06)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Universal Subscriber Identity Module (USIM) conformance test specification (Release 15)	

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TK / Mobile Com- munications	3GPP TS 31.124 * V15.4.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (Release 15)	
TK / Mobile Com- munications	3GPP TS 34.108 * V15.1.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Common test environments for User Equipment (UE); Conformance testing (Release 15)	
TK / Mobile Com- munications	3GPP TS 34.109 * V15.0.0 (2018-07)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Terminal logical test interface; Special conformance testing functions (Release 15)	
TK / Mobile Com- munications	3GPP TS 34.121-1 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification (Release 16)	
TK / Mobile Com- munications	3GPP TS 34.121-2 * V15.0.0 (2018-06)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS) (Release 15)	
TK / Mobile Com- munications	3GPP TS 34.123-1 * V15.2.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (Release 15)	

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TK / Mobile Com- munications	3GPP TS 34.123-2 * V15.1.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (Release 15)	
TK / Mobile Com- munications	3GPP TS 34.123-3 * V15.1.0 (2019-03)	Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS) (Release 15)	
TK / Mobile Com- munications	3GPP TS 36.508 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing (Release 16)	
TK / Mobile Com- munications	3GPP TS 36.509 * V15.2.0 (2018-12)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE) (Release 15)	
TK / Mobile Com- munications	3GPP TS 36.521-1 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance Testing; (Release 16)	
TK / Mobile Com- munications	3GPP TS 36.521-2 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS) (Release 16)	

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TK / Mobile Com- munications	3GPP TS 36.521-3 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing (Release 16)	
TK / Mobile Com- munications	3GPP TS 36.523-1 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E- UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (Release 16)	
TK / Mobile Com- munications	3GPP TS 36.523-2 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E- UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (Release 16)	
TK / Mobile Com- munications	3GPP TS 36.523-3 * V16.0.0 (2019-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification Part 3: Test Suites (Release 16)	
TK / Mobile Com- munications	VzW Test Specifications V1.1 (2011-03)	LTE 3GPP Band 13 Lab Conformance Test Plan	
TK / Mobile Com- munications	VzW Test Specifications V1.2 (2013-06)	LTE 3GPP Band 13 Lab Conformance Test Plan	

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TK / Mobile Com- munications	VzW Test Specifications V5.4 (2013-06)	LTE 3GPP Band 13 Safe For Network Test Plan	
TK / Mobile Com- munications	VzW Test Specifications V5.5 (2016-03)	LTE 3GPP Band 13 Safe For Network Test Plan	
TK / Mobile Com- munications	VzW Test Specifications Version 1.8 (2012- 02)	LTE 3GPP Band 13 Field Test Plan	
TK / Mobile Com- munications	GCF-CC Version 3.72.2/3.72.1/3.72.0 (2018-12-13)	Global Certification Forum – Certification Criteria	
TK / Mobile Com- munications	GCF-CC Version 3.73.1/3.73.0 (2019-03-28)	Global Certification Forum – Certification Criteria	
TK / Mobile Com- munications	GCF-CC Version 3.74.0 (2019-04-10)	Global Certification Forum – Certification Criteria	
TK / Mobile Com- munications	PTCRB NAPRD.03 Version 5.38 (2018-12-17)	PTCRB Permanent Reference Document: Version Specific Technical Overview of PTCRB Mobile/User Equipment Type Certification	
TK / Mobile Com- munications	PTCRB NAPRD.03 Version 5.39 (2019-03-27)	PTCRB Permanent Reference Document: Version Specific Technical Overview of PTCRB Mobile/User Equipment Type Certification	
TK / Mobile Com- munications	PPMD V2.38 (2019-03-27)	PTCRB Program Management Document: Process Overview of PTCRB Device Type Certification and IMEI Control	
TK / Mobile Com- munications	PVG.03 Version 2.0.0 (2018-02-18)	PVG PTCRB Validation Group Evolution Tracking of PTCRB Certification Test Cases and Requirements PVG.03	

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TK / Mobile Com- munications	PTCRB RFT 77 Version 2016-08-17 (2016-08-17)	AT-Command Test Specification Covering PTCRB RFT 77	
TK / Mobile Com- munications	DIN EN 16454: * 2015-12	Intelligente Verkehrssysteme - ESicherheit - Vollständige Konformitätsprüfungen für eCall; Deutsche Fassung EN 16454:2015	
TK / Mobile Com- munications	EN 16454:2015 *	Intelligent transport systems – ESafety – ECall end to end conformance testing;	
TK / Mobile Com- munications	ETSI TS 102 936-1 *: * 2011-04	eCall Network Access Device (NAD) conformance specification; Part 1: Protocol test specification	
TK / Mobile Com- munications	ETSI TS 102 936-2 *: * 2011-04	eCall Network Access Device (NAD) conformance specification; Part 2: Test Suites	
TK / Mobile Com- munications	3GPP TS 34.171 * V9.4.0 (2012-03)	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD) (Release 9)	
TK / Mobile Com- munications	3GPP TS 34.229-1 * V14.6.0 (2019-03)	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (Release 14)	
TK / Mobile Com- munications	3GPP TS 34.229-2 * V14.6.0 (2019-03)	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification (Release 14)	
TK / Mobile Com- munications	3GPP TS 34.229-3 * V15.1.0 (2019-03)	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS) (Release 15)	

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TK / Mobile Com- munications	3GPP TS 37.571-1 * V16.0.0 (2019-03)	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification (Release 16)	
TK / Mobile Com- munications	3GPP TS 37.571-2 * V16.0.0 (2019-03)	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance (Release 16)	
TK / Mobile Com- munications	3GPP TS 37.571-3 * V16.0.0 (2019-03)	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS) (Release 16)	
TK / Mobile Com- munications	3GPP TS 37.571-4 * V15.1.0 (2019-03)	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites (Release 15)	
TK / Mobile Com- munications	3GPP TS 37.571-5 * V16.0.0 (2019-03)	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data (Release 16)	
TK / Mobile Com- munications	3GPP TR 37.901 * V15.1.0 (2018-06)	User Equipment (UE) application layer data throughput performance (Release 15)	
TK / Mobile Com- munications	ETSI TS 102 384 * V10.3.0 (2015-08)	Smart Cards; UICC-Terminal interface; Card Application Toolkit (CAT) conformance specification (Release 10)	
TK / Mobile Com- munications	ETSI TS 102 933-1 * V2.1.1 (2015-06)	Railway Telecommunications (RT); GSM-R improved receiver parameters; Part 1: Requirements for radio reception	

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TK / Mobile Com- munications	ETSI TS 102 933-2 * V2.1.1 (2015-06)	Railway Telecommunications (RT); GSM-R improved receiver parameters; Part 2: Radio conformance testing	
TK / Mobile Com- munications	GSMA TS.35 Version 4.1 05 June 2018	IoT Device Connection Efficiency Test Book	Test Cases only chapter 5.4
TK / Mobile Com- munications	LoRa End Device Certification EU V1.5 (2017/06/21)	LoRa Alliance End Device Certification Requirements for EU 868MHz ISM Band Devices	
TK / Mobile Com- munications	LoRa End-Device Certification Requirements for US and Canada V1.1 (2017/01/13)	LoRa Alliance End-Device Certification Requirements for US and Canada 915MHz ISM Band Devices	
TK / Mobile Com- munications	LoRa End-Device Certification Requirements for US and Canada V1.3 (2017/09/20)	LoRa Alliance End-Device Certification Requirements for US and Canada 915MHz ISM Band Devices	
TK / Mobile Com- munications	LoRa End-Device Certification Requirements for AS923 V1.1 (2017/08/07)	LoRa Alliance End-Device Certification Requirements for AS923MHz ISM Band Devices	
TK / Mobile Com- munications	SIGFOX certification for End Products Test Specification for certification labs Rev1.1 (2016/08/26)	SIGFOX certification for End Products Test Specification for certification labs	
TK / Application Enabler	OMA-ETS 2013	OMA (Open Mobile Alliance) Enabler Test Specifications Test Cases for Enabler Releases	
TK / Application Enabler	IMTC Enabler Test Specifications 2008	IMTC (International Multimedia Telecommunications Consortium) Enabler Test Specifications Test Cases for Interoperability and Compliance	

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TK / Application Enabler Application Enabler	GSM Association Enabler Test Specifications 2009	GSM Association Enabler Test Specifications Test Cases to show compliance with GSMNA Technical Recommendations	
TK / Interoperability	TS.11 * v26.0	Device Field and Lab Test Guidelines	
TK / Interoperability	TS.39 * V5.0	MlIoT Test Requirements	
TK / Interoperability	TS.40 * V5.0	MlIoT Test Cases	
TK / Interoperability	TS.37 * V5.0	Requirements for Multi SIM Devices	
TK / Interoperability	TS.42 * V3.0	Multi SIM Devices Requirements Test Cases	
TK / Interoperability	OMA-TS- LightweightM2M 1.1 - 2018-07-10	Lightweight Machine to Machine Technical Specification	
TK / Interoperability	OMA-ETS- LightweightM2M Version 1.0.2	Enabler Test Specification for Lightweight M2M	
TK / Interoperability	OMA-ETS-MMS_INT 15 Oct 2010	Enabler Test Specification (Interoperability) for MMS	
TK / Interoperability	OMA-ETS- XHTML_MP_CON Version 1.3 30 Apr 2010	Enabler Test Specification (Conformance) for XHTML Mobile Profile	
TK / Interoperability	OMA-ETS-WCSS Version 1.2 18 May 2010	Enabler Test Specification for WCSS	
TK / Interoperability	3G-324M Version 3.11 May 14, 2008	3G-324M Video Telephony Activity Group Test Cases - Interoperability	

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TK / Interoperability	OMA-ETS-RCS_CON Version 1.2.2 10 Mar 2014	Enabler Test Specification for RCS (Rich Communication Suite)	
TK / Interoperability	MirrorLink 1.0 Test Specification v1.0.3 / 02-2013	Mirrorlink test specification	
TK / Interoperability	MirrorLink 1.1 Test Specification v1.1 /2014	Mirrorlink test specificationPL-12072-04	
TK / Interoperability	CCC-TS-055 v 1.0 / 03-2014	Mirrorlink Application Base Certification Test Specification	
TK / Interoperability	CCC-TS-058 v1.0 / 12-2013	Mirrorlink Application Drive Certification Test Specification Combined	
TK / RF Performance	CTIA OTA Performance * Revision 3.7.1	Test Plan for Wireless Device Over-the-Air Performance	
TK / RF Performance	CTIA OTA Performance * Revision 3.8.2	Test Plan for Wireless Device Over-the-Air Performance	
TK / RF Performance	GPP TS 34.114 * V12.2.0 (2016-09)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing (Release 11)	
TK / RF Performance	GPP TS 34.114 * V12.2.0 (2016-09)	Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing (3GPP TS 34.114 version 11.3.0 Release 11)	
TK / RF Performance	VF_Ant_Req Version 4.0	Vodafone Specification for Terminals on Over the Air RF Performance	
TK / Base Stations and Repeaters	ETS 300 609-1 * Edition 9 (1999-12)	Digital Cellular Telecommunications System (Phase 2); Base Station Systems (BSS) Equipment Specification; Part 1: Radio aspects (GSM 11.21)	

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TK / Base Stations and Repeaters	ETSI EN 300 609-4 * V10.2.1 (2012-11)	Global System for Mobile communications (GSM); Part 4: Harmonized EN for GSM Repeaters covering the essential requirements of article 3.2 of the R&TTE Directive, GSM Repeater	
TK / Base Stations and Repeaters	EN 301 087 * V8.2.1 (2000-10)	Digital Cellular Telecommunications System (Phase 2 and Phase 2+); Base Station Systems (BSS) Equipment Specification; Part 1: Radio aspects (GSM 11.21)	
TK / Base Stations and Repeaters	ETSI TS 101 087 * V8.11.0 (2009-06)	Digital cellular telecommunications system (Phase 2 and Phase 2+) (GSM); Base Station System (BSS) equipment specification; Radio aspects (3GPP TS 11.21)	
TK / Base Stations and Repeaters	ETSI EN 301 502 * V12.5.2 (2017-03)	Harmonized EN for Global System for Mobile communications (GSM); Base Station and Repeater equipment covering essential requirements under article 3.2 of the R&TTE directive (GSM 13.21)	
TK / Base Stations and Repeaters	3GPP TS 11.21 * R99 V8.11.0 (2009-06-12)	3rd Generation Partnership Project; Technical Specification Group GERAN; Digital cellular telecommunications system (Phase 2 & Phase 2+) Base Station System (BSS) equipment specification; Radio aspects	
TK / Base Stations and Repeaters	ETSI EN 301 908-1 * V11.1.1 (2016-07)	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	
TK / Base Stations and Repeaters	ETSI EN 301 908-3 * V11.1.3 (2017-04)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	
TK / Base Stations and Repeaters	ETSI EN 301 908-11 * V11.1.2 (2017-01)	Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	

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TK / Base Stations and Repeaters	3GPP TS 25.104 * R-16 V16.0.0 (2019-01-15)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; BS Radio Transmission and Reception (FDD)	
TK / Base Stations and Repeaters	3GPP TS 25.141 * R-16 V16.0.0 (2019-01-15)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Base station conformance testing (FDD)	
TK / Base Stations and Repeaters	ETSI TS 101 789-1 * V1.1.2 (2007-04)	Terrestrial Trunked Radio (TETRA); TMO Repeaters Part 1: Requirements, test methods and limits	
TK / Short Range Devices	ETSI EN 300 220-1 * V3.3.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
TK / Short Range Devices	ETSI EN 300 220-2 * V3.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	
TK / Short Range Devices	ETSI EN 300 220-2 * V3.2.1 (2018-06)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	
TK / Short Range Devices	ETSI EN 300 220-3-1 * V2.1.1 (2016-12)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Low duty cycle high reliability equipment, Social Alarms Equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	

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TK / Short Range Devices	ETSI EN 300 220-3-2 * V1.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz	
TK / Short Range Devices	ETSI EN 300 220-4 * V1.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz	
TK / Short Range Devices	ETSI EN 300 330 * V2.1.1 (2017-02)	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 requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 302 208 * V3.1.1 (2016-11)	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 296 * V2.1.1 (2016-03)	Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 440 * V2.2.1 (2018-07)	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	



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TK / Wideband Transmission Systems	ETSI EN 300 328 * V2.1.1 (2016-11)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Wideband Transmission Systems	ETSI EN 301 893 * V2.1.1 (2017-05)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 422-1 * V2.1.2 (2017-02)	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 422-2 * V2.1.1 (2017-02)	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 422-3 * V2.1.1 (2017-02)	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 300 422-4 * V2.1.1 (2017-05)	Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 301 357 * V2.1.1 (2017-06)	Cordless audio devices in the range 25 MHz to 2 000 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN 305 550-1 * V1.2.1 (2014-10)	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 1: Technical characteristics and test methods	

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TK / Short Range Devices	ETSI EN 305 550-2 * V1.2.1 (2014-10)	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	
TK / Short Range Devices	ETSI EN 303 406 * V1.1.1 (2017-02)	Short Range Devices (SRD); Social Alarms Equipment operating in the frequency range 25 MHz to 1 000 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK / Digital Terrestrial TV Broadcast Receivers	ETSI EN 303 340 * V1.1.2 (2016-09)	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Broadcast Sound Receivers	Final Draft ETSI EN 303 345-1 * V1.1.1 (2019-04)	Broadcast Sound Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Road Transport and Traffic Telematics (RTTT);	ETSI EN 302 858-1 * V1.3.1 (2013-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range; Part 1: Technical characteristics and test methods	
TK / Road Transport and Traffic Telematics (RTTT);	ETSI EN 302 858-2 * V1.3.1 (2013-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	

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TK / Short Range Devices	ETSI EN 302 858 * V2.1.1 (2016-12)	Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 24,05 GHz to 24,25 GHz or 24,05 GHz to 24,50 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK / Short Range Devices	ETSI EN303 396 * V1.1.1 (2016-12)	Short Range Devices; Measurement Techniques for Automotive and Surveillance Radar Equipment	
TK / Short Range Devices	ETSI EN 301 091-1 * V1.3.3 (2006-11)	Electromagnetic compatibility and Radio Spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 76 GHz to 77 GHz range; Part 1: Technical characteristics and test methods for radar equipment operating in the 76 GHz to 77 GHz range	
TK / Short Range Devices	ETSI EN 301 091-1 * V2.1.1 (2017-01)	Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Ground based vehicular radar	
TK / Short Range Devices	ETSI EN 301 091-2 * V1.3.2 (2006-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 76 GHz to 77 GHz range; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive	
TK / Short Range Devices	ETSI EN 301 091-2 * V2.1.1 (2017-01)	Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: Fixed infrastructure radar equipment	

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TK / Short Range Devices	ETSI EN 301 091 * V1.1.1 (1998-06)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Technical characteristics and test methods for radar equipment operating in the 76 GHz to 77 GHz band	
TK / Short Range Devices	EN 302 264-1 * V1.1.1 (2009-06)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Part 1: Technical requirements and methods of measurement	
TK / Short Range Devices	EN 302 264-2 * V1.1.1 (2009-06)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	
TK / Short Range Devices	EN 302 264 * V2.1.1 (2017-05)	Short Range Devices; Transport and Traffic Telematics (TTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK / Short Range Devices	EN 303 883 * V211.1 (2016-09)	Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques	
TK / Short Range Devices	EN 302 065-1 * V2.1.1 (2016-11)	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Requirements for Generic UWB applications	

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TK / Short Range Devices	EN 302 065-2 * V2.1.1 (2016-11)	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: Requirements for UWB location tracking	
TK / Short Range Devices	EN 302 065-3 * V2.1.1 (2016-11)	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 3: Requirements for UWB devices for ground based vehicular applications	
TK / Satellite Earth Stations and Systems	EN 303 413 * V1.1.1 (2017-06)	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; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Mobile Earth Stations (MESs)	ETSI EN 301 441 * V2.1.1 (2016-06)	Satellite Earth Stations and Systems (SES); Harmonised Standard for Mobile Earth Stations (MES), including handheld earth stations, for Satellite Personal Communications Networks (S- PCN) operating in the 1,6 GHz/2,4 GHz frequency band under the Mobile Satellite Service (MSS) covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK / Mobile Earth Stations (MESs)	ETSI EN 301 442 * V2.1.1 (2016-06)	Satellite Earth Stations and Systems (SES); Harmonised Standard for NGSO Mobile Earth Stations (MES) including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands under the Mobile Satellite Service (MSS) covering the essential requirements of article 3.2 of the Directive 2014/53/EU	

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TK / Car-2-Car	ETSI EN 302 571 * V2.1.1 (2017-02)	Intelligent Transport Systems (ITS); Radiocommunications equipment operating in the 5 855 MHz to 5 925 MHz frequency band; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / Wireless power Transmission	ETSI EN 303 417 * V1.1.1 (2017-06)	Wireless power transmission using technologies other than radio frequency beam in the 19-21 kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6765-6795 kHz ranges	
TK / Short Range Devices (SRD)	EN 302 372 * V2.1.1 (2016-12)	Short Range Devices (SRD); Tank Level Probing Radar (TLPR) equipment operating in the frequency ranges 4,5 GHz to 7 GHz, 8,5 GHz to 10,6 GHz, 24,05 GHz to 27 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK/ Short Range Devices (SRD)	EN 302 729 * V2.1.1 (2016-12+)	Short Range Devices (SRD); Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK/ Short Range Devices (SRD)	EN 303 447 * V1.1.1 (2017-09)	Short Range Devices (SRD); Inductive loop systems for robotic mowers in the frequency range 0 Hz to 148,5 kHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK / SAR	EN 62369-1:2009 *	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	Only frequency range 2 kHz – 30 MHz

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TK / SAR	EN 50364:2018 *	Product standard for human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	Only frequency range 2 kHz – 30 MHz
EMC	DIN EN 61000-4-2 * VDE 0847-4-2:2009-12	Elektromagnetische Verträglichkeit (EMV) - Teil 4-2: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen die Entladung statischer Elektrizität (IEC 61000-4-2:2008); Deutsche Fassung EN 61000-4-2:2009	
EMC	DIN EN 61000-4-3 * VDE 0847-4-3:2011-04	Elektromagnetische Verträglichkeit (EMV) - Teil 4-3: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen hochfrequente elektromagnetische Felder (IEC 61000-4-3:2006 + A1:2007 + A2:2010); Deutsche Fassung EN 61000-4-3:2006 + A1:2008 + A2:2010	Up to including test level 3 Up to 6 GHz
EMC	DIN EN 61000-4-4 * VDE 0847-4-4:2013-04	Elektromagnetische Verträglichkeit (EMV) - Teil 4-4: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen schnelle transiente elektrische Störgrößen/Burst (IEC 61000-4-4:2012); Deutsche Fassung EN 61000-4-4:2012	
EMC	DIN EN 61000-4-5 * VDE0847-4-5: 2019-03	Elektromagnetische Verträglichkeit (EMV) - Teil 4-5: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen Stoßspannungen (IEC 61000-4-5:2014 + A1:2017); Deutsche Fassung EN 61000-4-5:2014 + A1:2017	
EMC	DIN EN 61000-4-6 * VDE 0847-4-6:2014-08	Elektromagnetische Verträglichkeit (EMV) - Teil 4-6: Prüf- und Messverfahren - Störfestigkeit gegen leitungsgeführte Störgrößen, induziert durch hochfrequente Felder (IEC 61000-4-6:2013); Deutsche Fassung EN 61000-4-6:2014	
EMC	DIN EN 61000-4-8 * VDE 0847-4-8:2010-11	Elektromagnetische Verträglichkeit (EMV) - Teil 4-8: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen Magnetfelder mit energietechnischen Frequenzen (IEC 61000-4-8:2009); Deutsche Fassung EN 61000-4-8:2010	

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EMC	DIN EN 61000-4-9 * VDE 0847-4-9:2017- 05	Elektromagnetische Verträglichkeit (EMV) - Teil 4- 9: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen impulsförmige Magnetfelder (IEC 61000-4-9:2016); Deutsche Fassung EN 61000- 4-9:2016	
EMC	DIN EN 61000-4-11 * VDE 0847-4- 11:2005-02	Elektromagnetische Verträglichkeit (EMV) - Teil 4- 11: Prüf- und Messverfahren - Prüfungen der Störfestigkeit gegen Spannungseinbrüche, Kurzzeitunterbrechungen und Spannungsschwankungen (IEC 61000-4-11:2004); Deutsche Fassung EN 61000-4-11:2004	
EMC	DIN EN 61000-3-2* VDE 0838-2:2015-03	Elektromagnetische Verträglichkeit (EMV) - Teil 3- 2: Grenzwerte - Grenzwerte für Oberschwingungsströme (Geräte-Eingangsstrom <= 16 A je Leiter) (IEC 61000-3-2:2014); Deutsche Fassung EN 61000-3-2:2014	
EMC	DIN EN 61000-3-3 * 2014-03; VDE 0838-3:2014-03	Elektromagnetische Verträglichkeit (EMV) - Teil 3- 3: Grenzwerte - Begrenzung von Spannungsänderungen, Spannungsschwankungen und Flicker in öffentlichen Niederspannungs- Versorgungsnetzen für Geräte mit einem Bemessungsstrom <= 16 A je Leiter, die keiner Sonderanschlussbedingung unterliegen (IEC 61000-3-3:2013); Deutsche Fassung EN 61000-3-3:2013	
EMC	ISO 7637-2 * Third Edition 2011-03-01	Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only	
EMC	ISO 7637-3 * 2016-07	Road vehicles – Electrical disturbances from conduction and coupling – Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	



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EMC	CISPR-16-2-1: * 2014+AMD1:2017 Edition 3.1	Specification for radio disturbance and immunity measuring apparatus and methods; Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements	
EMC	CISPR-16-2-3 * Edition 4.0 2016	Specification for radio disturbance and immunity measuring apparatus and methods; Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements	
EMC	CISPR-16-2-4 * ed1.0 2003	Specification for radio disturbance and immunity measuring apparatus and methods; Part 2-4: Methods of measurement of disturbances and immunity – Immunity measurements	Without: 7.2 (Rahmen- antenne: 9 k - 30 MHz) 7.9 (Reverb) 7.10 (TEM)
EMC	DIN EN 61000-6-1 * VDE 0839-6-1:2007- 10	Elektromagnetische Verträglichkeit (EMV) - Teil 6- 1: Fachgrundnormen - Störfestigkeit für Wohnbereich, Geschäfts- und Gewerbebereiche sowie Kleinbetriebe (IEC 61000-6-1:2005); Deutsche Fassung EN 61000-6-1:2007	
EMC	DIN EN 61000-6-2 * VDE 0839-6-2:2006- 03	Elektromagnetische Verträglichkeit (EMV) - Teil 6- 2: Fachgrundnormen - Störfestigkeit für Industriebereiche (IEC 61000-6-2:2005); Deutsche Fassung EN 61000-6-2:2005	
EMC	DIN EN 61000-6-3 * VDE 0839-6-3:2011- 09	Elektromagnetische Verträglichkeit (EMV) - Teil 6- 3: Fachgrundnormen - Störaussendung für Wohnbereich, Geschäfts- und Gewerbebereiche sowie Kleinbetriebe (IEC 61000-6-3:2006 + A1:2010); Deutsche Fassung EN 61000-6-3:2007 + A1:2011	
EMC	DIN EN 61000-6-4 * VDE 0839-6-4:2011- 09	Elektromagnetische Verträglichkeit (EMV) - Teil 6- 4: Fachgrundnormen - Störaussendung für Industriebereiche (IEC 61000-6-4:2006 + A1:2010); Deutsche Fassung EN 61000-6-4:2007 + A1:2011	

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EMC	DIN EN 50130-4: * 2015-04; VDE 0830-1-4: 2015-04	Alarmanlagen - Teil 4: Elektromagnetische Verträglichkeit - Produktfamiliennorm: Anforderungen an die Störfestigkeit von Anlageteilen für Brandmeldeanlagen, Einbruch- und Überfallmeldeanlagen, Video- Überwachungsanlagen, Zutrittskontrollanlagen sowie Personen-Hilferufanlagen; Deutsche Fassung EN 50130-4:2011 + A1:2014	
EMC	DIN EN 55011 * :2018-05; VDE 0875-11: 2018-05	Industrielle, wissenschaftliche und medizinische Geräte - Funkstörungen - Grenzwerte und Messverfahren (CISPR 11:2015, modifiziert); Deutsche Fassung EN 55011:2016	Up to including 3 m measurement distance
EMC	CISPR 11 * Edition 6.2 2015/AMD1:2016/ AMD2:2019	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
EMC	DIN EN 55014-1 * :2018-08; VDE 0875-14-1	Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte - Teil 1: Störaussendung (CISPR 14-1:2016 + COR1:2016); Deutsche Fassung EN 55014-1:2017	No disturbance power
EMC	CISPR 14.1 * Edition 6.0 2016	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	No disturbance power
EMC	DIN EN 55014-2; * VDE 0875-14- 2:2016-01	Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte - Teil 2: Störfestigkeit - Produktfamiliennorm (CISPR 14-2:2015); Deutsche Fassung EN 55014- 2:2015	
EMC	CISPR 14.2 * Edition 2.0 2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	Up to including 3 m measurement distance

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EMC	DIN EN 55022; * VDE 0878-22:2011-12	Einrichtungen der Informationstechnik - Funkstöreigenschaften - Grenzwerte und Messverfahren (CISPR 22:2008, modifiziert); Deutsche Fassung EN 55022:2010	Up to including 3 m measurement distance
EMC	CISPR 22 * ed6.0 (2008-09)	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
EMC	DIN EN 55024 * VDE 0878-24:2016- 05	Einrichtungen der Informationstechnik - Störfestigkeitseigenschaften - Grenzwerte und Prüfverfahren (CISPR 24:2010 + Cor.:2011 + A1:2015); Deutsche Fassung EN 55024:2010 + A1:2015	
EMC	CISPR 24: * 2010+AMD1:2015* Edition 2.1 (2015-04)	Information technology equipment – Immunity characteristics – Limits and methods of measurement	
EMC	DIN EN 55032 VDE 0878-32:2016-02	Elektromagnetische Verträglichkeit von Multimedialgeräten und -einrichtungen - Anforderungen an die Störaussendung (CISPR 32:2015); Deutsche Fassung EN 55032:2015	Up to including 3 m measurement distance
EMC	CISPR 32 * Edition 2.0 (2015-03)	Electromagnetic compatibility of multimedia equipment - Emission requirements	Up to including 3 m measurement distance
EMC	DIN EN 55035 * :2018-04; VDE 0878-35: 2018-04	Elektromagnetische Verträglichkeit von Multimedialgeräten - Anforderungen zur Störfestigkeit (CISPR 35:2016, modifiziert); Deutsche Fassung EN 55035:2017	Up to 3 GHz; No noise generator
EMC	EN 55035 * July 2017	Electromagnetic compatibility of multimedia equipment – Immunity requirements (CISPR 35:2016 , modified)	
EMC	CISPR 35 * Edition 1.0 (2016-08-16)	Electromagnetic compatibility of multimedia equipment - Immunity Requirements	

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EMC	DIN EN 61326-1 * VDE 0843-20- 1:2013-07	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 1: Allgemeine Anforderungen (IEC 61326-1:2012); Deutsche Fassung EN 61326-1:2013	
EMC	EN 61326-1 * January 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2012)	
EMC	IEC 61326-1 * ed2.0 (2012-07)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	
EMC	DIN EN 61326-2-1 * VDE 0843-20-2- 1:2013-08	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-1: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für empfindliche Prüf- und Messgeräte für Anwendungen ohne EMV-Schutzmaßnahmen (IEC 61326-2-1:2012); Deutsche Fassung EN 61326- 2-1:2013	
EMC	DIN EN 61326-2-2 * VDE 0843-20-2- 2:2013-08	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-2: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für ortsveränderliche Prüf-, Mess- und Überwachungsgeräte für den Gebrauch in Niederspannungs-Stromversorgungsnetzen (IEC 61326-2-2:2012); Deutsche Fassung EN 61326- 2-2:2013	
EMC	DIN EN 61326-2-3 * VDE 0843-20-2- 3:2013-07	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-3: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für Messgrößenumformer mit integrierter oder abgesetzter Signalaufbereitung (IEC 61326-2- 3:2012); Deutsche Fassung EN 61326-2-3:2013	

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EMC	DIN EN 61326-2-4 * VDE 0843-20-2- 4:2013-07	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-4: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für Isolationsüberwachungsgeräte gemäß IEC 61557-8 und Geräte zur Isolationsfehlerortung gemäß IEC 61557-9 (IEC 61326-2-4:2012); Deutsche Fassung EN 61326-2-4:2013	
EMC	DIN EN 61326-2-5 * VDE 0843-20-2- 5:2013-08	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-5: Besondere Anforderungen - Prüfanordnungen, Betriebsbedingungen und Leistungsmerkmale für Feldgeräte mit Feldbus-Schnittstellen gemäß IEC 61784-1 (IEC 61326-2-5:2012); Deutsche Fassung EN 61326-2-5:2013	
EMC	ETSI EN 301 489-1 * V2.1.1 (2017-02)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-2 * V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-3 * V2.1.1 (2019-03)	Electromagnetic compatibility and Radio spectrum Matters (ERM); 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 40 GHz	

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EMC	ETSI EN 301 489-5 * V2.2.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-6 * V2.2.1 (2019-04)	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EMC	ETSI EN 301 489-9 * V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-17 * V3.3.0 (2017-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-19 * V2.1.1 (2019-04)	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	

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EMC	ETSI EN 301 489-20 * V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-33 * V2.1.1 (2017-02)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 33: Specific conditions for Ultra-WideBand (UWB) devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-34 * V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-50 * V2.2.1 (2019-04)	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 covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-51 * V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements of article 3.1b of Directive 2014/53/EU	

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EMC	Draft ETSI EN 301 489-52 * V1.1.0 (2016-11)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	3GPP TS 25.113 * Rel-15 V15.0.0 (2018-04-06)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Base station and Repeater Electromagnetic Compatibility (EMC)	
EMC	3GPP TS 34.124 * Rel-15 V15.0.0 (2018-07-09)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Electromagnetic Compatibility (EMC) requirements for Mobile terminals and ancillary equipment	
EMC	ETSI TS 136 124 * V15.2.0 (2018-09)	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 14.1.0 Release 14)	
EMC	3GPP TS 36.124 * Rel-16 V16.0.0 (2019-01-15)	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	
EMC	Draft ETSI EN 303 446-1 * V1.2.0 (2019-03)	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Requirements for equipment intended to be used in residential, commercial and light industry locations. Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU	



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EMC	Draft ETSI EN 303 446-2 * V1.2.0 (2019-03)	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Requirements for equipment intended to be used in residential, commercial and light industry locations. Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU	
EMC / USA	ANSI C 63.4-2014 * ANSI C63.4a-2017 *	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	
TK / USA	ANSI C 63.10-2013 *	American National Standard for Testing of Unlicensed Wireless Devices	Up to including 325 GHz
TK/USA	ANSI C63.26-2015 *	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
TK / Japan	ARIB STD-T66 Ver. 3.7 2014-10-11	Second Generation Low Power Data Communication System/Wireless LAN System	
TK / Japan	ARIB STD-T71 Ver. 6.2 2018-07-26	Broadband Mobile Access Communication System (CSMA)	
TK / Australia New Zealand	ACA TS 018 * 1997	Digital Cellular Mobile Telecommunications System - GSM Mobile Station	
TK / Australia New Zealand	AS/NZS 4268 * 2017	Radio equipment and systems – Short range devices – Limits and methods of measurement	
TK / Australia New Zealand	AS/NZS 4771 * 2000	Technical characteristics and test conditions for data transmission equipment operating in the 900 MHz, 2.4 GHz and 5.8 GHz bands and using spread spectrum modulation techniques	

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EMC Australia New Zealand	AS/NZS 61000.6.3 * 2012	Electromagnetic compatibility (EMC) – Part 6.3: Generic standards – Emission standard for residential, commercial and light-industrial environments	
EMC Australia New Zealand	AS/NZS CISPR 11 * 2011	Industrial scientific and medical (ISM) radio- frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
EMC Australia	AS CISPR 11 * 2017	Industrial scientific and medical (ISM) radio- frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement	
EMC Australia New Zealand	AS/NZS CISPR 14.1 * 2013	Electromagnetic Compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emissions	Up to including 3 m measurement distance
EMC Australia New Zealand	AS/NZS CISPR 22 * 2009 + A1 (2010)	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
EMC Australia New Zealand	AS/NZS CISPR 32 * 2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	Up to including 3 m measurement distance