

## Deutsche Akkreditierungsstelle

### Anlage zur Teil-Akkreditierungsurkunde D-PL-12104-01-01 nach DIN EN ISO/IEC 17025:2018

**Gültig ab:** 10.06.2024

Ausstellungsdatum: 10.06.2024

Diese Urkundenanlage ist Bestandteil der Akkreditierungsurkunde D-PL-12104-01-00.

Inhaber der Teil-Akkreditierungsurkunde:

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

mit dem Standort

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

Das Prüflaboratorium erfüllt die Anforderungen gemäß DIN EN ISO/IEC 17025:2018, um die in dieser Anlage aufgeführten Konformitätsbewertungstätigkeiten durchzuführen. Das Prüflaboratorium erfüllt gegebenenfalls zusätzliche gesetzliche und normative Anforderungen, einschließlich solcher in relevanten sektoralen Programmen, sofern diese nachfolgend ausdrücklich bestätigt werden.

Die Anforderungen an das Managementsystem in der DIN EN ISO/IEC 17025 sind in einer für Prüflaboratorien relevanten Sprache verfasst und stehen insgesamt in Übereinstimmung mit den Prinzipien der DIN EN ISO 9001.

Prüfungen in den Bereichen:

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

*Diese Urkundenanlage gilt nur zusammen mit der schriftlich erteilten Urkunde und gibt den Stand zum Zeitpunkt des Ausstellungsdatums wieder. Der jeweils aktuelle Stand der gültigen und überwachten Akkreditierung ist der Datenbank akkreditierter Stellen der Deutschen Akkreditierungsstelle zu entnehmen ([www.dakks.de](http://www.dakks.de))*

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Dem Prüflaboratorium ist, 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.

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Fachbereich	Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens <sup>1</sup>	Prüfbereich / Einschränkung
<b>1 Telekommunikation (TK)</b>			
<b>1.1 Mobile Communications</b>			
TK	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	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	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	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	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	ETSI EN 301 511 V12.5.1 (2017-03)	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	

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TK	3GPP TS 51.010-1 V13.13.0 (2022-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 13)	
TK	ETSI TS 151 010-1 V13.13.0 (2022-05)	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.13.0 Release 13)	
TK	3GPP TS 51.010-2 V13.15.0 (2023-06)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) Proforma specification (Release 13)	
TK	ETSI TS 151 010-2 V13.15.0 (2023-07)	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) Proforma specification (3GPP TS 51.010-2 version 13.15.0 Release 13)	
TK	3GPP TS 51.010-4 V17.0.0 (2022-04)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Mobile Station (MS) conformance specification; Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (Release 17)	
TK	ETSI TS 151 010-4 V17.0.0 (2022-04)	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (3GPP TS 51.010-4 version 17.0.0 Release 17)	

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TK	3GPP TS 51.010-5 V10.20.0 (2023-09)	3rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network; Mobile Station (MS) conformance specification; Part 5: Inter-Radio-Access-Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS) (Release 10)	
TK	ETSI TS 151 010-5 V10.20.0 (2023-10)	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 5: Inter-Radio- Access-Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS) (3GPP TS 51.010-5 version 10.20.0 Release 10)	
TK	PTCRB Bearer- Agnostic TTY Test Specification RFT 062 V2.0 (2013-08-06)	PTCRB Bearer-Agnostic TTY Test Specification	
TK	ETSI EN 301 908-1 V15.2.1 (2023-01)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements Release 15	
TK	ETSI EN 301 908-2 V13.1.1 (2020-06)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	
TK	ETSI EN 301 908-13 V13.2.1 (2022-02)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	
TK	3GPP TS 25.101 V17.0.0 (2022-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) radio transmission and reception (FDD) (Release 17)	
TK	3GPP TS 26.131 V18.0.0 (2022-12)	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Terminal acoustic characteristics for telephony; Requirements (Release 18)	

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TK	3GPP TS 26.132 V18.1.0 (2023-03)	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Speech and video telephony terminal acoustic test specification (Release 18)	
TK	ETSI TS 102 230-1 V17.1.0 (2024-02)	Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 1 Terminal features (Release 17)	
TK	3GPP TS 31.120 V17.0.0 (2022-04)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; UICC-Terminal Interface; Physical, electrical and logical test specification (Release 17)	
TK	3GPP TS 31.121 V17.1.1 (2024-01)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification (Release 17)	
TK	3GPP TS 31.122 V17.3.0 (2023-09)	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Universal Subscriber Identity Module (USIM) conformance test specification (Release 17)	
TK	3GPP TS 31.124 V17.1.0 (2023-12)	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 17)	
TK	3GPP TS 34.108 V15.2.0 (2019-09)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Common test environments for User Equipment (UE); Conformance testing (Release 15)	
TK	3GPP TS 34.109 V17.0.0 (2022-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Terminal logical test interface; Special conformance testing functions (Release 17)	
TK	3GPP TS 34.121-1 V16.2.0 (2019-09)	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)	

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TK	3GPP TS 34.121-2 V15.1.0 (2020-09)	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	3GPP TS 34.123-1 V15.6.0 (2022-06)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (Release 15)	
TK	3GPP TS 34.123-2 V15.6.1 (2023-12)	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	3GPP TS 34.123-3 V17.3.0 (2023-12)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS) Release 17)	
TK	3GPP TS 36.508 V18.3.0 (2023-12)	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 18)	
TK	3GPP TS 36.509 V17.4.0 (2023-09)	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 17)	
TK	3GPP TS 36.521-1 V18.3.0 (2023-12)	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 18)	



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TK	3GPP TS 36.521-2 V18.3.0 (2023-12)	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 18)	
TK	3GPP TS 36.521-3 V18.3.0 (2023-12)	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 18)	
TK	3GPP TS 36.523-1 V18.3.0 (2023-12)	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 18)	
TK	3GPP TS 36.523-2 V18.3.0 (2023-12)	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 18)	
TK	3GPP TS 36.523-3 V18.2.0 (2023-12)	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 18)	
TK	VzW Test Specification V1.1	LTE 3GPP Band 13 Lab Conformance Test Plan	
TK	VzW Test Specification V1.2	LTE 3GPP Band 13 Lab Conformance Test Plan	

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TK	VzW Test Specification V5.4	LTE 3GPP Band 13 Safe For Network Test Plan	
TK	VzW Test Specification V5.5	LTE 3GPP Band 13 Safe For Network Test Plan	
TK	VzW Test Specification Version 1.8	LTE 3GPP Band 13 Field Test Plan	
TK	GCF-CC Version 3.92.0 (2024-02-03)	Global Certification Forum – Certification Criteria	
TK	PTCRB NAPRD.03 Version 6.15 (2023- 12)	PTCRB Permanent Reference Document: Version Specific Technical Overview of PTCRB Mobile/User Equipment Type Certification	
TK	PPMD V3.10 (2023-12)	PTCRB Program Management Document: Process Overview of PTCRB Certification Program and IMEI Control	
TK	PVG.03 Version 5.1.2 (2023-03-13)	PVG PTCRB Validation Group Evolution Tracking of PTCRB Certification Test Cases and Requirements PVG.03	
TK	PTCRB RFT 77 Version 2016-08-17	AT-Command Test Specification Covering PTCRB RFT 77	
TK	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	3GPP TS 34.229-1 V16.7.0 (2023-09)	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 16)	
TK	3GPP TS 34.229-2 V16.9.0 (2023-12)	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 16)	

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TK	3GPP TS 34.229-3 V17.4.0 (2023-12)	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 17)	
TK	3GPP TS 37.571-1 V17.3.1 (2023-12)	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 17)	
TK	3GPP TS 37.571-2 V17.2.0 (2023-09)	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 17)	
TK	3GPP TS 37.571-3 V17.3.0 (2023-12)	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 17)	
TK	3GPP TS 37.571-4 V17.4.0 (2023-12)	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 17)	
TK	3GPP TS 37.571-5 V17.3.0 (2023-12)	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 17)	
TK	3GPP TR 37.901 V15.1.0 (2018-06)	User Equipment (UE) application layer data throughput performance (Release 15)	
TK	ETSI TS 102 384 V11.0.0 (2022-03)	Smart Cards; UICC-Terminal interface; Card Application Toolkit (CAT) conformance specification (Release 11)	
TK	ETSI TS 102 933-1 V2.1.1 (2015-06)	Railway Telecommunications (RT); GSM-R improved receiver parameters; Part 1: Requirements for radio reception	
TK	ETSI TS 102 933-2 V2.1.1 (2015-06)	Railway Telecommunications (RT); GSM-R improved receiver parameters; Part 2: Radio conformance testing	

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TK	GSMA TS.35 Version 4.1 05 June 2018	IoT Device Connection Efficiency Test Book	Test Cases only chapter 5.4
<b>1.2 Application Enabler</b>			
TK	OMA-ETS 2013	OMA (Open Mobile Alliance) Enabler Test Specifications Test Cases for Enabler Releases	
TK	IMTC Enabler Test Specifications 2008	IMTC (International Multimedia Telecommunications Consortium) Enabler Test Specifications Test Cases for Interoperability and Compliance	
TK	GSM Association Enabler Test Specifications 2009	GSM Association Enabler Test Specifications Test Cases to show compliance with GSMNA Technical Recommendations	
<b>1.3 ZigBee / Matter</b>			
TK	Matter Core Specification Test Plan, Version 1.2	Matter Test Plan	
TK	Matter Application Clusters Test Plan, Version 1.2	Matter Application Clusters Test Plan	
TK	PRO Base Device Behavior Test Plan, 7 v3.0.1	PRO Base Device Behavior Test Plan	
TK	ZigBee Cluster Library Window Covering (0x0102) Test Specification Version 1.0	ZigBee Cluster Library Window Covering (0x0102) Test Specification	
TK	ZigBee Cluster Library Touchlink Commissioning Cluster (0x1000) Test Specification Version 1.0	ZigBee Cluster Library Touchlink Commissioning Cluster (0x1000) Test Specification	

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TK	ZigBee Cluster Library Occupancy Sensing Cluster (0x0406) Test Specification Version 0.9	ZigBee Cluster Library Occupancy Sensing Cluster (0x0406) Test Specification	
TK	ZigBee Cluster Library Illuminance Measurement Cluster (0x0400) Test Specification Version 0.9	ZigBee Cluster Library Illuminance Measurement Cluster (0x0400) Test Specification	
TK	ZigBee Cluster Library Color Control Cluster (0x0300) Test Specification Version 1.0	ZigBee Cluster Library Color Control Cluster (0x0300) Test Specification	
TK	ZigBee Cluster Library Level Control Cluster (0x0008) Test Specification Version 1.0	ZigBee Cluster Library Level Control Cluster (0x0008) Test Specification	
TK	ZigBee Cluster Library On/Off Cluster (0x0006) Test Specification Version 1.0	ZigBee Cluster Library On/Off Cluster (0x0006) Test Specification	
TK	ZigBee Cluster Library Scenes Cluster (0x0005) Test Specification Version 1.0	ZigBee Cluster Library Scenes Cluster (0x0005) Test Specification	

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TK	ZigBee Cluster Library Groups Cluster (0x0004) Test Specification Version 1.0	ZigBee Cluster Library Groups Cluster (0x0004) Test Specification	
TK	ZigBee Cluster Library Identify Cluster (0x0003) Test Specification Version 1.0	ZigBee Cluster Library Identify Cluster (0x0003) Test Specification	
TK	ZigBee Cluster Library Basic Cluster (0x0000) Test Specification Version 1.0	ZigBee Cluster Library Basic Cluster (0x0000) Test Specification	
TK	ZigBee Cluster Library Diagnostics Cluster (0x0b05) Test Specification Version 1.0	ZigBee Cluster Library Diagnostics Cluster (0x0b05) Test Specification	
TK	ZigBee Cluster Library Barrier Control (0x0103) Test Specification Version 0.9	ZigBee Cluster Library Barrier Control (0x0103) Test Specification	
TK	ZigBee Cluster Library Thermostat User Interface Configuration Cluster (0x0204) Test Specification Version 1.0	ZigBee Cluster Library Thermostat User Interface Configuration Cluster (0x0204) Test Specification	
TK	ZigBee Cluster Library Poll Control Cluster (0x0020) Test Specification Version 0.9	ZigBee Cluster Library Poll Control Cluster (0x0020) Test Specification	

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TK	ZigBee Cluster Library Fan Control Cluster (0x0202) Test Specification Version 0.9	ZigBee Cluster Library Fan Control Cluster (0x0202) Test Specification	
TK	ZigBee Cluster Library Time Cluster (0x000A) Test Specification Version 0.9	ZigBee Cluster Library Time Cluster (0x000A) Test Specification	
TK	ZigBee Cluster Library IAS WD Cluster (0x0502) Test Specification Version 0.9	ZigBee Cluster Library IAS WD Cluster (0x0502) Test Specification	
TK	ZigBee Cluster Library Concentration Measurement Clusters (0x040C - 0x0429) Test Specification Version 0.0	ZigBee Cluster Library Concentration Measurement Clusters (0x040C - 0x0429) Test Specification	
TK	ZigBee Cluster Library OTA Cluster (0x0019) Test Specification Version 0.9	ZigBee Cluster Library OTA Cluster (0x0019) Test Specification	
TK	ZigBee Cluster Library Ballast Configuration Cluster (0x0301) Test Specification Version 0.7	ZigBee Cluster Library Ballast Configuration Cluster (0x0301) Test Specification	

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TK	ZigBee Cluster Library Temperature Measurement Cluster (0x0402) Test Specification Version 0.9	ZigBee Cluster Library Temperature Measurement Cluster (0x0402) Test Specification	
TK	ZigBee Cluster Library Power Configuration Cluster (0x0001) Test Specification Version 0.7	ZigBee Cluster Library Power Configuration Cluster (0x0001) Test Specification	
TK	Zigbee PRO Green Power feature test specification; Basic functionality set Version 1.1.1	Zigbee PRO Green Power feature test specification Basic functionality se	Green Power Proxy only
<b>1.4 LoRa / Sigfox</b>			
TK	LoRa End-Device Certification Requirements for EU V1.5 (2017/06/21)	LoRa Alliance End-Device Certification Requirements for EU 868MHz ISM Band Devices	
TK	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	LoRa End-Device Certification Requirements for AS923 V1.1 (2017/08/07)	LoRa Alliance End-Device Certification Requirements for AS923MHz ISM Band Devices	
TK	LoRa Alliance® End Device Certification Requirements for India V1.1.1	LoRa Alliance® End Device Certification Requirements for India 865-867 MHz ISM Band	
TK	LoRa RF Performance for EU863-870 MHz ISM Band Devices v1.2.	LoRa Alliance End-Device Certification Radiated RF Performance for EU863-870 MHz ISM Band Devices v1.2.	



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TK	LoRa RF Performance For US 915 MHz ISM Band Devices v1.1	LoRa Alliance End-Device Certification Radiated RF Performance For US 915 MHz ISM Band Devices v1.1	
TK	LoRa RF Performance for South Korea 920-923 MHz ISM Band Devices v1.1.1	LoRa Alliance End-Device Certification Radiated RF Performance for South Korea 920-923 MHz ISM Band Devices v1.1.1	
TK	LW1.0.4_End_Device _Certification_V1.6.1	LoRaWAN 1.0.4 End Device Certification Requirements for All Regions	
TK	LW1.0.4 End-Device Class B Certification Test Specification v1.0	LoRaWAN 1.0.4 End Device Certification Class B Certification Specification	
TK	LW1.0.4 Device Class C Certification Tests v1.0.1	LoRaWAN 1.0.4 End Device Certification Class C Certification	
TK	LoRaWAN End- Device Certification Specification for SCHC certification v1.1	LoRaWAN End Device Specification for SCHC Certification	
TK	LW End Device RF Performance All regions V1.0	LoRaWAN End-Device RF Performance measurements for All Regions	
TK	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	
<b>1.5 Automotive – automatic communication systems- eCall</b>			
TK	DIN EN 16454 2015-12	Intelligente Verkehrssysteme – E-Sicherheit - Vollständige Konformitätsprüfungen für eCall; Deutsche Fassung EN 16454:2015	
TK	DIN EN 16454: 2024-03	Intelligente Verkehrssysteme – E Sicherheit - Vollständige Konformitätsprüfungen für eCall; Deutsche Fassung EN 16454:2023	
TK	EN 16454 2015	Intelligent transport systems – E-Safety – E Call end to end conformance testing;	

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<b>Fachbereich</b>	<b>Norm / Hausverfahren / Version</b>	<b>Titel der Norm oder des Hausverfahrens<sup>1</sup></b>	<b>Prüfbereich / Einschränkung</b>
TK	EN 16454: 2023	Intelligent transport systems – E Safety – E Call end to end conformance testing	
TK	ETSI TS 102 936-1 2011-04	E Call Network Access Device (NAD) conformance specification; Part 1: Protocol test specification	
TK	ETSI TS 102 936-2 2011-04	ECall Network Access Device (NAD) conformance specification; Part 2: Test Suites	
TK	ETSI TS 126 269 V15.0.0 (2018-07)	Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); E Call data transfer; In-band modem solution; Conformance testing	
TK	ETSI TS 103 412 V1.3.1 (2020-03)	Mobile Standards Group (MSG); Pan-European E Call end to end and in-band modem conformance testing; Prose test specification	Chapters 7.x only
TK	ETSI TS 103 428 V1.2.2 (2021-04)	Mobile Standards Group (MSG); E Call HLAP Interoperability Testing	
TK	ETSI TS 103 543 V1.1.1 (2018-02)	Mobile Standards Group (MSG); Pan-European E Call In-Vehicle Systems Guidelines for IVS conformity assessment	
TK	GOST 33467 (2015)	Global navigation satellite system. Road accident emergency response system. Functional test methods for in-vehicle emergency call device/system and data transfer protocols	
TK	GOST 33470 (2015)	Global navigation satellite system. Road accident emergency response system. Test methods for wireless communication modules of in-vehicle emergency call device/system	Chapter 8.2.6-8.6.6 only
TK	GOST 33471 (2015)	Global navigation satellite system. Road accident emergency response system. Test methods for navigation module of in-vehicle emergency call device/system	
TK	ESMA UAE.S 5019 (2018-04)	Motor vehicle - "E Call" Emergency Calls Technical Requirements	

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TK	TRA TS041 V1.0 (2017-10-01)	Emergency Call	
TK	SASO 2944 (2020)	Motor vehicle - Technical Requirements for Emergency Calls "E Call"	
TK	2017/79/AB (2018)	112 Acil Çağrı Servisi Tabanlı Araç İçi Acil Çağrı Sistemi Bakımından Motorlu Araçların, "...motor vehicles with respect to their 112-based eCall in-vehicles systems" 112 Tabanlı Araç İçi Acil Çağrı Ayrısı "... 112-based eCall in-vehicle separate technical units" Teknik Ünitelerinin ve Aksamlarının Tip Onayına Yönelik Teknik Şartlarına ve Deney İşlemlerine İlişkin Yönetmelik "Regulation of technical requirements and test procedures for the type-approval of ..."	
<b>1.6 Interoperability</b>			
TK	TS.11 v42.0	Device Field and Lab Test Guidelines	
TK	TS.37 V9.0	Requirements for Multi SIM Devices	
TK	TS.39 V7.0	MIoT Test Requirements	
TK	TS.40 V8.0	MIoT Field and Lab test Cases	
TK	TS.42 v6.0	Multi SIM Devices Requirements Test Cases	
TK	OMA-TS- LightweightM2M 1.1 (2018-07-10)	Lightweight Machine to Machine Technical Specification	
TK	OMA-ETS- LightweightM2M Version 1.0.2	Enabler Test Specification for Lightweight M2M	
TK	OMA-ETS-MMS_INT 15 Oct 2010	Enabler Test Specification (Interoperability) for MMS	

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<b>1.7 RF Performance</b>			
TK	CTIA OTA Performance 4.0.X	Test Plan for Wireless Device Over-the-Air Performance <ul style="list-style-type: none"> <li>• CTIA 01.01: "Test Scope, Requirements, and Applicability" Version 4.0.4, November 2023</li> <li>• CTIA 01.20: "Test Methodology, SISO, Anechoic Chamber" Version 4.0.0, February 2022</li> <li>• CTIA 01.50: "Wireless Technology, 3GPP Radio Access Technologies" Version 4.0.1, July 2023</li> <li>• CTIA 01.70: "Measurement Uncertainty" Version 4.0.1, November 2023</li> <li>• CTIA 01.71: "Device Setup and Positioning Guidelines" Version 4.0.1, November 2022</li> <li>• CTIA 01.72: "Near-Field Phantoms" Version 4.0.1, July 2023</li> <li>• CTIA 01.73: "Supporting Procedures" Version 4.0.4, November 2023</li> <li>• CTIA 01.90: "Informative Reference Material" Version 4.0.0, February 2022</li> <li>• CTIA 01.03: "Normative Reporting Tables" Version 4.0.2, November 2022</li> </ul>	
TK	3GPP 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 12)	
TK	ETSI TS 134 114 V12.2.0 (2016-11)	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 12.2.0 Release 12)	
TK	VF Ant. Req. V5.3	Vodafone Specification for Terminals on Over the Air RF Performance V5.3	except MIMO OTA
<b>1.8 Base Stations and Repeaters</b>			
TK	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	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	ETSI 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	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	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	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	ETSI EN 301 908-1 V15.2.1 (2023-01)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15	
TK	ETSI EN 301 908-3 V13.1.1 (2019-09)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	
TK	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	
TK	3GPP TS 25.104 R17 V17.0.0 (2022-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; BS Radio Transmission and Reception DD	
TK	3GPP TS 25.141 R17 V17.0.0 (2022-03)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Base station conformance testing (FDD)	

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TK	ETSI TS 101 789-1 V1.1.2 (2007-04)	Terrestrial Trunked Radio (TETRA); TMO Repeaters Part 1: Requirements, test methods and limits	
<b>1.9 Short Range Devices</b>			
TK	ETSI EN 300 220-1 V3.1.1 (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	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 for access to radio spectrum for non specific radio equipment	
TK	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 designating frequencies (869.200 MHz to 869.250 MHz)	
TK	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	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	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	

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TK	ETSI EN 302 208 V3.4.1 (2023-12)	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 for access to radio spectrum	
TK	ETSI EN 300 296 V2.2.1 (2021-06)	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	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	
TK	ETSI EN 300 422-1 V2.2.1 (2021-11)	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Audio PMSE Equipment up to 3 GHz; Harmonised Standard for access to radio spectrum	
TK	ETSI 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 requirement	
TK	ETSI EN 302 729 V2.1.1 (2016-02)	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	ETSI EN 303 447 V1.3.1 (2022-07)	Short Range Devices (SRD); Inductive loop systems for robotic mowers in the frequency range 0 Hz to 148,5 kHz	

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TK	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	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	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	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	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	
TK	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	Draft ETSI EN 305 550 V2.1.0 (2017-10)	Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range Harmonised Standard for access to radio spectrum	EUT(s) with receiver only up to 90 GHz



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TK	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	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	ETSI EN 303 396 V1.1.1 (2016-12)	Short Range Devices; Measurement Techniques for Automotive and Surveillance Radar Equipment	
TK	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 Directive 2014/53/EU; Part 1: Ground based vehicular radar	
TK	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	
TK	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	

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TK	ETSI 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 measure	
TK	ETSI 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 require	
TK	ETSI 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	ETSI EN 303 883 V1.1.1 (2016-09)	Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques	
TK	ETSI EN 303 883-1 V1.2.1 (2021-02)	Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 1: Measurement techniques for transmitter requirements	
TK	ETSI EN 303 883-2 V1.2.1 (2021-02)	Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 2: Measurement techniques for receiver requirements	
TK	ETSI 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	ETSI 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	ETSI 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	ETSI EN 302 065-3-1 V3.1.0 (2016-11)	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised standard for access to radio spectrum; Part 3: UWB devices installed in motor and railway vehicles Sub-part 1: Requirements for UWB devices for vehicular access systems	TK
<b>1.10 Wideband Transmission Systems</b>			
TK	ETSI EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	
TK	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	EN 303 687 V1.1.1 (2023-06)	6 GHz WAS/RLAN Harmonised Standard for access to radio spectrum	
TK	ETSI EN 302 502 V2.1.1 (2017-03)	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	

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<b>1.11 Digital Terrestrial TV Broadcast Receivers</b>			
TK	ETSI EN 303 340 V1.2.1 (2020-09)	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
<b>1.12 Broadcast Sound Receivers</b>			
TK	ETSI EN 303 345-1 V1.1.1 (2019-06)	Broadcast Sound Receivers; Part 1: Generic requirements and measuring methods	
TK	ETSI EN 303 345-2 V1.2.1 (2021-12)	Broadcast Sound Receivers; Part 2: AM broadcast sound service; Harmonised Standard for access to radio spectrum	
TK	ETSI EN 303 345-3 V1.1.1 (2021-06)	Broadcast Sound Receivers; Part 3: FM broadcast sound service; Harmonised Standard for access to radio spectrum	
TK	ETSI EN 303 345-4 V1.1.1 (2021-06)	Broadcast Sound Receivers; Part 4: DAB broadcast sound service; Harmonised Standard for access to radio spectrum	
TK	ETSI EN 303 345-5 V1.2.1 (2021-12)	Broadcast Sound Receivers; Part 5: DRM broadcast sound service; Harmonised Standard for access to radio spectrum	
<b>1.13 Road Transport and Traffic Telematics (RTTT)</b>			
TK	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 me	
TK	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 essentia	

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<b>1.14 Satellite Earth Stations and Systems</b>			
TK	ETSI EN 303 413 V1.2.1 (2021-04)	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	
TK	EN 301 426 V2.1.2 (2016-11)	Satellite Earth Stations and Systems (SES); Harmonised Standard for Low data rate Land Mobile satellite Earth Stations (LMES) and Maritime Mobile satellite Earth Stations (MMES) not intended for distress and safety communications operating in the 1,5 GHz/1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK	EN 301 444 V2.2.1 (2021-04)	Satellite Earth Stations and Systems (SES); Land Mobile Earth Stations (LMES) and Maritime Mobile Earth Stations (MMES) providing voice and/or data communications, operating in the 1,5 GHz and 1,6 GHz frequency bands; Harmonised Standard for access to radio spectrum	
TK	EN 301 681 V2.1.2 (2016-11)	Satellite Earth Stations and Systems (SES); Harmonised Standard for Mobile Earth Stations (MES) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) under the Mobile Satellite Service (MSS), operating in the 1,5 GHz and 1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
<b>1.15 Mobile Earth Stations (MESs)</b>			
TK	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 Sa	

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TK	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	
<b>1.16 Car-2-Car</b>			
TK	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	
<b>1.17 Wireless Power Transmission</b>			
TK	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	
<b>1.18 EMF</b>			
TK	EN 62369-1 2009 (2009-04-30)	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
TK	EN 50364 2018 (2018-02-15)	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
TK	DIN EN IEC 62311 2020-12	Bewertung von elektrischen und elektronischen Einrichtungen in Bezug auf Begrenzungen der Exposition von Personen in elektromagnetischen Feldern (0 Hz bis 300 GHz) (IEC 62311:2019); Deutsche Fassung EN IEC 62311:2020	
TK	EN IEC 62311 2020-01	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz) (IEC 62311:2019);	

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<b>1.19 TK-USA</b>			
TK	ANSI C63.10 2020 (2020-09-13))	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	Up to including 325 GHz
TK	ANSI C63.26 2015 (2015-01)	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
<b>1.20 TK-Japan</b>			
TK	ARIB STD-T66 V3.7 (2014-10)	Second Generation Low Power Data Communication System/Wireless LAN System	
TK	ARIB STD-T71 V7.0 (2023-03-03)	Broadband Mobile Access Communication System (CSMA)	
<b>1.21 TK- Australia New Zealand Radio</b>			
TK	ACA TS 018 1997 (1997-12)	Digital Cellular Mobile Telecommunications System - GSM Mobile Station	
TK	AS/NZS 4268 2017 (2017-02-24)	Radio equipment and systems – Short range devices – Limits and methods of measurement	
TK	AS/NZS 4771 2000 (2000-05)	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	
<b>1.22 TK- Hong Kong</b>			
TK	HKCA 1019 ISSUE 3 NOVEMBER 2011	Performance Specification for TV Antenna Amplifiers	
TK	HKCA 1020 ISSUE 7 NOVEMBER 2011	Performance Specification of the Base Station System (BSS) and Repeater Equipment for use in the Public Mobile Communications Service employing Global System for Mobile communications (GSM) or in the Personal Communications Service (PCS)	
TK	HKCA 1033 ISSUE 7 March 2012	Performance Specification of the Mobile Stations and Portable Equipment for Use in Global System for Mobile Communications (GSM) in the 900 and 1800 MHz Bands	

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Fachbereich	Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens <sup>1</sup>	Prüfbereich / Einschränkung
TK	HKCA 1035 ISSUE 7 May 2016	Performance specification for Radio Equipment Exempted from Licensing	
TK	HKCA 1039 ISSUE 6 JUNE 2015	Performance Specification for Radiocommunications Apparatus Operating in the 2.4 GHz or 5 GHz Band and Employing Frequency Hopping or Digital Modulation	
TK	HKCA 1042 ISSUE 2 FEBRUARY 2003	Performance Specification for Radio Equipment Operating in the 5 GHz Band for Wireless Access	
TK	HKCA 1043 ISSUE 4 JUNE 2008	Performance Specification for Base Station and Repeater Equipment for Use in the Third Generation (3G) Mobile Communications Services Employing CDMA Direct Spread (UTRA FDD)	
TK	HKCA 1048 ISSUE 2 JUNE 2008	Performance Specification for User Equipment for Use in the Third Generation (3G) Mobile Communications Services Employing CDMA Direct Spread (UTRA FDD)	
TK	HKCA 1049 ISSUE 1 APRIL 2005	Performance Specification for Radio Frequency Identification (RFID) Equipment Operating in the 865 – 868 MHz and/or 920 – 925 MHz Bands	
TK	HKCA 1050 ISSUE 1 JANUARY 2006	Performance Specification for 26.96 - 27.41 MHz Citizens Band (CB) Radio Transceivers	
TK	HKCA 1057 ISSUE 2 JULY 2023	Performance Specification for User Equipment for Use in Public Mobile Communications Services based on Evolved Universal Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD)	
TK	HKCA 1061 ISSUE 1 MAY 2011	Performance Specification for Short Range Devices Operating in the 433 MHz Band	
TK	HKCA 1064 ISSUE 1 FEBRUARY 2013	Performance Specification for Global System for Mobile Communications – Railway (GSM-R) Radiocommunications Equipment	
TK	HKCA 1066 ISSUE 1 NOVEMBER 2013	Performance Specification for Ground-Based VHF Radio Equipment for the VHF Aeronautical Mobile Service	



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TK	HKCA 1073 ISSUE 1 JANUARY 2015	Performance Specification for User Equipment for Use in Evolved Universal Terrestrial Radio Access (E-UTRA) Time Division Duplex (TDD) Network	
TK	HKCA 1075 ISSUE 2 SEPTEMBER 2018	Performance Specification for Short-Range Radar Equipment operating in the 79 GHz Band	
TK	HKCA 1080 ISSUE 1 AUGUST 2018	Performance Specification for Short Range Devices Operating in the 4.2 – 4.8 GHz and/or 6 – 8.5 GHz Bands Employing Ultra-Wideband Technology	
TK	HKCA 1081 ISSUE 1 APRIL 2022	Performance Specification for Radiocommunications Apparatus Operating in the 6 GHz Band for Wireless Local Area Network	
<b>2 Elektromagnetische Verträglichkeit (EMV)</b>			
<b>2.1 Grundnormen</b>			
EMV	DIN EN 61000-4-2; VDE 847-4-2 2009-12 (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	
EMV	DIN EN 61000-4-3; VDE 847-4-3 2021-11 (2021-11)	Elektromagnetische Verträglichkeit (EMV) - Teil 4-3: Prüf- und Messverfahren - Prüfung der Störfestigkeit gegen hochfrequente elektromagnetische Felder (IEC 61000-4-3:2020); Deutsche Fassung EN IEC 61000-4-3:2020	Up to including test level 3 Up to 6 GHz
EMV	DIN EN 61000-4-4; VDE 847-4-4 2013-04 (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	
EMV	DIN EN 61000-4-5; VDE 847-4-5 2021-04 (2021-04)	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; Berichtigung 1	

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Fachbereich	Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens <sup>1</sup>	Prüfbereich / Einschränkung
EMV	DIN EN 61000-4-6; VDE 847-4-6 2014-08 (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	
EMV	DIN EN 61000-4-8; VDE 847-4-8 2010-11 (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	
EMV	DIN EN 61000-4-9; VDE 847-4-9 2017-05 (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	
EMV	DIN EN 61000-4-11; VDE 847-4-11 2021-11 (2021-11)	Elektromagnetische Verträglichkeit (EMV) - Teil 4-11: Prüf- und Messverfahren - Prüfungen der Störfestigkeit gegen Spannungseinbrüche, Kurzzeitunterbrechungen und Spannungsschwankungen für Geräte mit einem Eingangsstrom bis zu und einschließlich 16 A je L	
EMV	DIN EN 61000-3-2; VDE 838-2 2023-10 (2023-10)	Elektromagnetische Verträglichkeit (EMV) - Teil 3-2: Grenzwerte - Grenzwerte für Oberschwingungsströme (Geräte-Eingangsstrom ≤ 16 A je Leiter) (IEC 61000-3-2:2018 + A1:2020 + ISH1:2021); Deutsche Fassung EN IEC 61000-3-2:2019 + A1:2021	
EMV	DIN EN 61000-3-3; VDE 838-3 2023-02 (2023-02)	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 + A1:2017 + A2:2021 + A2:2021/COR1:2022); Deutsche Fassung EN 61000-3-3:2013 + A1:2019 + A2:2021 + A2:2021/AC:2022	

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Fachbereich	Norm / Hausverfahren / Version	Titel der Norm oder des Hausverfahrens <sup>1</sup>	Prüfbereich / Einschränkung
EMV	ISO 7637-2 Third Edition 2011-03-01 (2011-03)	Road vehicles – Electrical disturbances from conduction and coupling –Part 2: Electrical transient conduction along supply lines only	
EMV	ISO 7637-3 2016-07 (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	
EMV	CISPR-16-2-1 2014+AMD1:2017  Edition 3.1 COR1:2020 (2020-08)	Specification for radio disturbance and immunity measuring apparatus and methods; Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements	
EMV	CISPR-16-2-3 Edition 4.2  2016+AMD1:2019+ AMD2:2023	Specification for radio disturbance and immunity measuring apparatus and methods; Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements	
EMV	CISPR-16-2-4 Edition 1.0 2003 (2003-11)	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 (Rahmenantenne: 9 k - 30 MHz) 7.9 (Reverb) 7.10 (TEM)
EMV	CISPR 11 Edition 6.2 2015/AMD1:2016/A MD2:2019 (2019-01)	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
<b>2.2 Fachgrundnormen</b>			
EMV	DIN EN IEC 61000-6-1; VDE 0839-6-1 2019-11	Elektromagnetische Verträglichkeit (EMV) - Teil 6-1: Fachgrundnormen - Störfestigkeit für Wohnbereich, Geschäfts- und Gewerbebereiche sowie Kleinbetriebe (IEC 61000-6-1:2016); Deutsche Fassung EN IEC 61000-6-1:2019	only 1-phase AC equipment <= 16 ampere per phase
EMV	DIN EN IEC 61000-6-2; VDE 0839-6-2 2019-11	Elektromagnetische Verträglichkeit (EMV) - Teil 6-2: Fachgrundnormen - Störfestigkeit für Industriebereiche (IEC 61000-6-2:2016);  Deutsche Fassung EN IEC 61000-6-2:2019	

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EMV	DIN EN IEC 61000-6-3; VDE 0839-6-3 2022-06	Elektromagnetische Verträglichkeit (EMV) - Teil 6-3: Fachgrundnormen - Störaussendung von Geräten in Wohnbereichen (IEC 61000-6-3:2020); Deutsche Fassung EN IEC 61000-6-3:2021	
EMV	DIN EN IEC 61000-6-4; VDE 0839-6-4 2020-09	Elektromagnetische Verträglichkeit (EMV) - Teil 6-4: Fachgrundnormen - Störaussendung für Industriebereiche (IEC 61000-6-4:2018); Deutsche Fassung EN IEC 61000-6-4:2019	
EMV	EN IEC 61000-6-8 2020 (September 2020)	Electromagnetic compatibility (EMV) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations (IEC 61000-6-8:2020)	
EMV	DIN EN IEC 61000-6-8; VDE 0839-6-8 2022-02 (2022-02)	Elektromagnetische Verträglichkeit (EMV) Teil 6-8:  Fachgrundnormen Störaussendung für professionell genutzte Geräte, die in Geschäft und Gewerbebereichen sowie in Kleinbetrieben verwendet werden (IEC 61000-6-8:2020)  Deutsche Fassung EN IEC 61000-6-8:2020	
<b>2.3 Produktnormen</b>			
EMV	DIN EN 50130-4 ; VDE 0830-1-4 2015-04 (2015-04)	Alarmanlagen - Teil 4: Elektromagnetische Verträglichkeit - Produktfamilienorm: Anforderungen an die Störfestigkeit von Anlagenteilen für Brandmeldeanlagen, Einbruch- und Überfallmeldeanlagen, Video-Überwachungsanlagen, Zutrittskontrollanlagen sowie Perso	
EMV	DIN EN 55011; VDE 0875-11 2022-05 (2022-05)	Industrielle, wissenschaftliche und medizinische Geräte - Funkstörungen - Grenzwerte und Messverfahren (CISPR 11:2015, modifiziert + A1:2016 + A2:2019); Deutsche Fassung EN 55011:2016 + A1:2017 + A11:2020 + A2:2021	Up to including 3 m measurement distance
EMV	DIN EN 55014-1 ; VDE 0875-14-1 2022-12 (2022-12)	Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte - Teil 1: Störaussendung (CISPR 14-1:2020); Deutsche Fassung EN IEC 55014-1:2021	No disturbance power
EMV	CISPR 14.1 Edition 7.0 (2020-09)	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	No disturbance power

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EMV	DIN EN 55014-2 ; VDE 0875-14-2 2022-10 (2022-10)	Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte - Teil 2: Störfestigkeit - Produktfamilienorm (CISPR 14-2:2015); Deutsche Fassung EN 55014-2:2021	
EMV	CISPR 14.2 Edition 3.0 (2020-08)	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	
EMV	DIN EN 55024 VDE 0878-24 2016-05 (2016-05)	Einrichtungen der Informationstechnik - Störfestigkeitseigenschaften - Grenzwerte und Prüfverfahren (CISPR 24:2010 + Cor.:2011 + A1:2015); Deutsche Fassung EN 55024:2010 + A1:2015	
EMV	CISPR 24: 2010+AMD1:2015 Edition 2.1 (2015-04)	Information technology equipment – Immunity Equipment – Limit and methods of measurement	
EMV	DIN EN 55032; VDE 0878-32 2022-08 (2022-08)	Elektromagnetische Verträglichkeit von Multimediageräten und Einrichtungen - Anforderungen an die Störaussendung (CISPR 32:2015 + COR1:2016 + A1:2019); Deutsche Fassung EN 55032:2015 + AC:2016 + A11:2020 + A1:2020	Up to including 3 m measurement distance
EMV	CISPR 32 Edition 2.1 2015+AMD1:2019 CSV (2019-10)	Electromagnetic compatibility of multimedia equipment - Emission requirements	Up to including 3 m measurement distance
EMV	DIN EN 55035; VDE 0878-35 2022-06 (2022-06)	Elektromagnetische Verträglichkeit von Multimediageräten - Anforderungen zur Störfestigkeit; Deutsche Fassung EN 55035:2017/A11:2020	Up to 6 GHz; No noise generator
EMV	EN 55035 2017/A11:2020 2022-06-02	Electromagnetic compatibility of multimedia equipment — Immunity requirements (CISPR 35:2016 , modified)	Up to 6 GHz; No noise generator
EMV	CISPR 35 Edition 1.0 2016 (2016-08)	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Up to 6 GHz; No noise generator
EMV	DIN EN 61326-1 ; VDE 0843-20-1 2022-11	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 1: Allgemeine Anforderungen (IEC 61326-1:2020); Deutsche Fassung EN IEC 61326-1:2021	

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<b>Fachbereich</b>	<b>Norm / Hausverfahren / Version</b>	<b>Titel der Norm oder des Hausverfahrens<sup>1</sup></b>	<b>Prüfbereich / Einschränkung</b>
EMV	EN IEC 61326-1 2021-06 (2021-06)	Electrical equipment for measurement, control and laboratory use - EMV requirements - Part 1: General requirements (IEC61326-1:2020)	
EMV	IEC 61326-1 Edition 3.0 2020 (2020-10)	Electrical equipment for measurement, control and laboratory use - EMV requirements - Part 1: General requirements	
EMV	DIN EN 61326-2-1 ; VDE 0843-20-2-1 2022-11	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 61326-2-1:2020); Deutsche Fassung EN IEC 61326-2-1:2021	
EMV	DIN EN 61326-2-2 ; VDE 0843-20-2-2 2022-11	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 61326-2-2:2020); Deutsche Fassung EN IEC 61326-2-2:2021	
EMV	DIN EN 61326-2-3 ; VDE 0843-20-2-3 2022-11	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 61326-2-3:2020); Deutsche Fassung EN IEC 61326-2-3:2021	
EMV	DIN EN 61326-2-4 ; VDE 0843-20-2-4 2022-11	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-4: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für Isolationsüberwachungsgeräte nach IEC 61557-8 und Geräte zur Isolationsfehlerortung nach IEC 61557-9 (IEC 61326-2-4:2020); Deutsche Fassung EN IEC 61326-2-4:2021	

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EMV	DIN EN 61326-2-5 ; VDE 0843-20-2-5 2022-11	Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-5: Besondere Anforderungen - Prüfanordnungen, Betriebsbedingungen und Leistungsmerkmale für Feldgeräte mit Feldbus-Schnittstellen nach IEC 61784-1 (IEC 61326-2-5:2020); Deutsche Fassung EN IEC 61326-2-5:2021	
EMV	ETSI EN 301 489-1 V2.2.3 (2019-11)	Electromagnetic Compatibility (EMV) standard for radio equipment and services; - Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility (ETSI EN 301 489-1 V2.2.3 (2019-11))	
<b>2.4 Radio</b>			
EMV	ETSI EN 301 489-2 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMV) 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	
EMV	ETSI EN 301 489-3 V2.3.2 (2023-01)	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	
EMV	ETSI EN 301 489-5 V2.2.1 (2019-04)	Electromagnetic Compatibility (EMV) 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 cov	
EMV	ETSI EN 301 489-6 V2.2.1 (2019-04)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMV) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	



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EMV	ETSI EN 301 489-9 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMV) 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 cov	
EMV	ETSI EN 301 489-17 V3.2.4 (2020-09)	Electromagnetic Compatibility (EMV) 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	
EMV	ETSI EN 301 489-19 V2.2.1 (2022-09)	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 providing positioning, navigation, and timing data; Harmonised Standard for Electromagnetic Compatibility	
EMV	ETSI EN 301 489-20 V2.2.1 (2021-11)	Electromagnetic Compatibility (EMV) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonised Standard for Electromagnetic Compatibility	
EMV	ETSI EN 301 489-33 V2.2.1 (2019-04)	Electromagnetic Compatibility (EMV) 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	
EMV	ETSI EN 301 489-34 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMV) 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	



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EMV	ETSI EN 301 489-50 V2.3.1 (2021-03)	Electromagnetic Compatibility (EMV) 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	
EMV	ETSI EN 301 489-51 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMV) 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	
EMV	ETSI EN 301 489-52 V1.2.1 (2021-11)	Electromagnetic Compatibility (EMV) 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	
EMV	3GPP TS 25.113 V17.0.0 (2022-04)	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Base station (BS) and repeater electromagnetic compatibility (EMV)	
EMV	3GPP TS 34.124 V17.1.0 2022-06	3rd Generation Partnership Project; Technical Specification Group Radio Access Networks; Electromagnetic Compatibility (EMV) requirements for Mobile terminals and ancillary equipment	
EMV	ETSI TS 136 124 V17.1.0 (2022-07)	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 17.1.0 Release 17)	
EMV	3GPP TS 36.124 V17.1.0 (2022-06)	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMV) requirements for mobile terminals and ancillary equipment	

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EMV	3GPP TS 38.124 V18.0.0 (2023-09)	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Electromagnetic Compatibility (EMV) requirements for mobile terminals and ancillary equipment (Release 18)	
EMV	ETSI TS 138 124 V17.2.0 (2022-10)	5G; NR; Electromagnetic compatibility (EMV) requirements for mobile terminals and ancillary equipment (3GPP TS 38.124 version 17.2.0 Release 17)	
EMV	ETSI EN 303 446-1 V1.2.1 (2019-10)	Electromagnetic Compatibility (EMV) standard for combined and/or integrated radio and non-radio equipment; Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations	
EMV	ETSI EN 303 446-2 V1.2.1 (2019-10)	Electromagnetic Compatibility (EMV) standard for combined and/or integrated radio and non-radio equipment; Part 2: Requirements for equipment intended to be used in industrial locations	
<b>2.5 EMV-USA</b>			
EMV	ANSI C63.4 2014 (2014-06)	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	
EMV	ANSI C63.4a 2017 (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  Amendment 1: Test Site Validation	
<b>2.6 EMV- Australia New Zealand</b>			
EMV	AS/NZS 61000.6.3 2021 (2021-10)	Electromagnetic compatibility (EMV) – Part 6.3: Generic standards – Emission standard for residential, commercial and light-industrial environments	

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EMV	AS/NZS CISPR 11 2017 AMD 1:2020	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015+AMD1:2016 (ED.6.1))	Up to including 3 m measurement distance
EMV	AS/NZS CISPR 32 2015 (2015-12-16)	Electromagnetic compatibility of multimedia equipment - Emission requirements	Up to including 3 m measurement distance
<b>2.7 EMV- Australia</b>			
EMV	AS CISPR 11 2017	Industrial scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement	Up to including 3 m measurement distance
<b>2.8 EMV- New Zealand</b>			
EMV	AS/NZS CISPR 14.1 2021 (2021-10-21)	Electromagnetic Compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emissions	Up to including 3 m measurement distance

Verwendete Abkürzungen:

TK Telekommunikation  
EMV Elektromagnetische Verträglichkeit

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