DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

CTC advanced GmbH
Untertürkheimer Straße 6-10, 66117 Saarbrücken

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards

The accreditation certificate shall only apply in connection with the notice of accreditation of 11.01.2019 with the accreditation number D-PL-12076-01 and is valid until 21.04.2021. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 7 pages.

Registration number of the certificate: **D-PL-12076-01-04**

Frankfurt am Main, 11.01.2019

Dipl.-Biol. Uwe Zimmermann
Head of Division

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12076-01-04 according to DIN EN ISO/IEC 17025:2005

Period of validity: 11.01.2019 to 21.04.2021 Date of issue: 31.01.2019

Holder of certificate:

CTC advanced GmbH
Untertürkheimer Straße 6-10, 66117 Saarbrücken

Tests in the fields:

Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards

Abbreviations used: see last page

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Electromagnetic Compatibility (EMC)			
EMC	ICES – 001, Issue 4, June 2006Updated in Nov 2014	Industrial, Scientific and Medical (ISM) Radio Frequency Generators	
EMC	ICES – 002, Issue 5, August 2009 Updated in Nov 2014	Spark Ignition Systems of Vehicles and Other Devices Equipped with Internal Combustion Engines	
EMC	ICES – 002, Issue 6, March 2013, Updated in Nov 2014, Updated in Feb 2017	Vehicles, Boats and other Devices Propelled by an internal Combustion Engine, Electrical Means or Both	
EMC	ICES – 003, Issue 6, January 2016 Updated in April 2017	Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement	
EMC	ICES – 004, Issue 4, June3 2013	Alternating Current High Voltage Power Systems	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	ICES – 005, Issue 3, May 2009 Issue 4, (Lighting Equipment), December 2015	Radio Frequency Lighting Devices	
EMC	ICES – 006, Issue 3, July 2018	AC Wire Carrier Current Devices (Unintentional Radiators)	
EMC	ICES-008, Issue 1, June 2015	Cable Distribution Networks	
Radio Equipment and Systems			
TC	BETS-1, Issue 1, November 1996	Technical Standards and Requirements for Low Power Announce Transmitters in the Frequency Bands 525 – 1,705 kHz and 88-107.5 MHz	
TC	BETS-3, Issue 1, November 1996	Technical Standards and Requirements for Radio Apparatus that Form Part of a Master Antenna Television (MATV) Broadcasting Undertaking	
TC	BETS-4, Issue 1, November 1996	Technical Standards and Requirements for Television Broadcasting Transmitters	
TC	BETS-5, Issue 1, November 1996	Technical Standards and Requirements for AM Broadcasting Transmitters	
TC	BETS-6, Issue 2, August 2005	Technical Standards and Requirements for FM Broadcasting Transmitters	
TC	BETS-7, Issue 3, March 2015	Technical Standards and Requirements for Radio Apparatus Capable of Receiving Broadcasting	
TC	BETS-8, Issue 1, November 1996	Technical Standards and Requirements for FM Transmitters Operating in Small Remote Communities	
TC	BETS-9, Issue 1, November 1996	Technical Standards and Requirements for Television Transmitters Operating in Small Remote Communities	
TC	BETS-11, Issue 1, November 1996	Technical Requirements Respecting the Identification of Broadcasting Stations	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
TC	CS-03, Issue 09, Amendment 5 March 2016	Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility	
TC	RSS-Gen, Issue 5, April 2018	General Requirements for Compliance of radio apparatus	
TC	RSS – 102, Issue5, March 2015 SPR-002, Issue 1, September 2016	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Supplementary Procedure for Assessing Compliance with RSS-102 Nerve Stimulation Exposure Limits	
TC	RSS-111, Issue 5, September 2014	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz	
TC	RSS - 112, Issue 1, February 2008	Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz	
TC	RSS – 117, Issue 3, January 2016	Land and Coast Station Transmitters Operating in the 200 – 535 kHz Band	
TC	RSS – 119, Issue 12, May 2015	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41 – 960 MHz	
TC	RSS – 123, Issue 3, February 2015	Licensed Low-Power Radio Apparatus	
TC	RSS – 125, Issue 2, Revision 1, March 2000	Land Mobile and Fixed Radio Transmitters and Receivers, 1.705 to 50.0 MHz, Primarily Amplitude Modulated	
TC	RSS-127, Issue 1, August 2009	Air-Ground Equipment Operating in the Bands 849-851 MHz and 894-896 MHz	
TC	RSS-130, Issue 1, October 2013	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
TC	RSS – 131, Issue 3, January 2017	Zone Enhancers for the Land Mobile Service	
TC	RSS – 132, Issue 3, January 2013	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz	
TC	RSS – 133, Issue 6, Issue 6, January 2013 Updated January 2018 Amendment 2018	2 GHz Personal Communications Services	
TC	RSS – 134, Issue 2, February 2016	900 MHz Narrowband Personal Communications Services	
TC	RSS – 135, Issue 2, June 2009	Digital Scanner Receivers	
TC	RSS – 137, Issue 2, February 2009	Location and Monitoring Service in the band 902-928 MHz	
TC	RSS – 139, Issue 3, July 2015	Advanced Wireless Services Equipment operating in the Bands 1710 – 1780 MHz and 2110 – 2180 MHz	
TC	RSS – 140, Issue 1, April 2018	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz	
TC	RSS – 141, Issue 2, June 2010	Aeronautical Radio communication Equipment in the Frequency Band 117.975-137 MHz	
TC	RSS-142, Issue 5, April 2013	Narrowband Multipoint Communication Systems in the Bands 1429.5‑1432 MHz	
TC	RSS-170, Issue 3, July 2015	Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
TC	RSS – 181, Issue 1, April 1971, Amendment July 1987	Coast and Ship Station Single Sideband Radiotelephone Transmitters and Receivers Operating in the 1605 – 28000 kHz Band	
TC	RSS – 182, Issue 5, January 2012	Maritime Radio Transmitters and Receivers in the Band 156 – 162.5 MHz	
TC	RSS-191, Issue 3, April 2008	Local Multipoint Communication Systems in the Band 25.35-28.35 GHz; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the Bands 24.25-24.45 GHz and 25.05-25.25 GHz; and Point-to-Multipoint Broadband Communications in the Band 38.6-40.0 GHz	
TC	RSS-192, Issue 3, January 2008	Fixed Wireless Access Equipment Operating in the Band 3450-3650 MHz	
TC	RSS – 194, Issue 1, October 2007	Fixed Wireless Access Equipment Operating in the Band 953-960 MHz	
TC	RSS – 195, Issue 2, April 2014	Wireless Communications Service Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz	
TC	RSS - 196, Issue 1, March 2010	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz and 614-698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)	
TC	RSS -197, Issue 1, February 2010	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz	
TC	RSS-199, Issue 3, December 2016	Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz	
TC	RSS – 210, Issue 9, August 2016 Amendment November 2017	Licence-exempt Radio Apparatus(All Frequency Bands): Category I Equipment	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
TC	RSS-211, Issue 1, March 2015	Level Probing Radar Equipment	
TC	RSS – 213, Issue 3, March 2015	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices	
TC	RSS – 215, Issue 2, June 2009	Analogue Scanner Receivers	
TC	RSS-216, Issue 2, January 2016	Wireless Power Transfer Devices	
TC	RSS – 220, Issue 1, March 2009 Amendment July 2018	Devices Using Ultra – Wideband (UWB) Technology	
TC	RSS – 222, Issue 1, February 2015	White Space Devices (WSDs)	
TC	RSS – 236, Issue 1, September 2012	General Radio Service Equipment Operating in the Band 26.960 to 27.410 MHz (Citizens Band)	
TC	RSS 238, Issue 1, July 2013	Shipborne Radar in the 2900-3100 MHz and 9225-9500 MHz Bands	
TC	RSS – 243, Issue 3, February 2010	Active Medical Implants Operating in the 401-406 MHz Band	
TC	RSS 244, Issue 1, June 2013	Medical Devices Operating in the Band 413-457 MHz	
TC	RSS-247, Issue 2, February 2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	
TC	RSS -251 Issue 2, July 2018	Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)	

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
TC	RSS-252 — Issue 1 September 2017	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)	
TC	RSS-287, Issue 2, March 2014	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)	
TC	RSS – 288, Issue 1, January 2012	Global Maritime Distress and Safety System (GMDSS)	
TC	RSS – 310, Issue 4, July 2015	Licence-exempt Radio Apparatus (All Frequency Bands): Category II Equipment	
Causing Equipment Standards			
TC	ICES – GEN, Issue 1, July 2018	General Requirements for Compliance of Interference-Causing Equipment	

Abbreviations used:

RSS Radio Standards Specification
IEC International Electrotechnical Commission
EMC Electromagnetic Compatibility
TC Telecommunication