

Date

Reference

2022-10-27

2022/1731

## Scope of accreditation

### Testing laboratory according to SS-EN ISO/IEC 17025:2018

TÜV Rheinland Sweden AB

Lund

Accreditation number

10325

A013955-001

### IT- and communications testing

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Material</i>	<i>Field</i>	<i>Note</i>
EMC	Electrostatic Discharge	EN 61000-4-2:2009	ESD components	No	
		IEC 61000-4-2:2008	ESD components	No	
	<b>Emission</b>	<b>CISPR 11:2015+A1:2016</b>	<b>Electrical equipment</b>	<b>No</b>	<b>Only small size equipment, section 3.17</b>
		<b>EN 55011:2016+A1:2017 +A11: 2020</b>	<b>Electrical equipment</b>	<b>No</b>	<b>Only small size equipment, section 3.17</b>
		EN 61000-6-3:2007 +A1:2011+AC:2012	Electrical equipment	No	
		EN 61000-6-4:2007 +A1:2011	Electrical equipment	No	
		IEC 61000-6-3:2006 +AMD1:2010	Electrical equipment	No	
		IEC 61000-6-4:2006 +AMD1:2010	Electrical equipment	No	
		<b>Emission/Immunity</b>	<b>CISPR 16-2-3:2016 +A1:2019</b>	<b>Electrical equipment</b>	<b>No</b>
	<b>EN 55016-2-3:2017 +A1:2019</b>		<b>Electrical equipment</b>	<b>No</b>	
	Frequency	CISPR 32:2015	Wireless communication devices	No	
		<b>Draft ETSI EN 305 550 v2.1.0:2017-10</b>	<b>Radio equipment</b>	<b>No</b>	

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EMC	Frequency	EN 55032:2015	Wireless communication devices	No	
		<b>ETSI EN 300 330 v2.2.1</b>	<b>Radio equipment</b>	<b>No</b>	<b>Not included: Product Class 3.</b>
		ETSI EN 301 489-1 V2.1.1 (2017-03)	Wireless communication devices	No	
		ETSI EN 301 489-1 V2.2.0 (2017-03)	Wireless communication devices	No	
		ETSI EN 301 489-17 V3.2.0 (2017-03)	Wireless communication devices	No	
		ETSI EN 301 489-19 V2.1.0 (2017-03)	Radio equipment	No	
		ETSI EN 301 489-3 V2.1.1 (2017-03)	Wireless communication devices	No	
		ETSI EN 301 489-51 V2.1.0 (2017-03)	Radio equipment	No	
		ETSI EN 301 489-52 V1.1.0 (2016-11)	Wireless communication devices	No	
		ETSI EN 301 511 V12.5.1 (2017-03)	Radio parameters	No	
		ETSI EN 301 511 V9.0.2 (2003-03)	Radio parameters	No	
		ETSI EN 301 908-1 V11.1.1 (2016-07)	Radio parameters	No	
		ETSI EN 301 908-13 V11.1.1 (2016-07)	Radio parameters	No	

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EMC	Frequency	ETSI EN 301 908-13 V11.1.2 (2017-07)	Radio parameters	No	
		ETSI EN 301 908-2 V11.1.1 (2016-07)	Radio parameters	No	
		ETSI EN 301 908-2 V11.1.2 (2017-08)	Radio parameters	No	
		<b>ETSI EN 305 550-2 v1.2.1</b>	<b>Radio equipment</b>	<b>No</b>	
	HF Disturbances	EN 61000-4-3:2006 +A1:2008+A2:2010	Radio equipment	No	
		EN 61000-4-4:2012	Radio equipment	No	
		EN 61000-4-5:2006	Communication equipment	No	
		EN 61000-4-6:2009	Radio equipment	No	
		IEC 61000-4-3:2006 +A1:2007+A2:2010	Radio equipment	No	
		IEC 61000-4-4:2012	Radio equipment	No	
		IEC 61000-4-5:2005	Communication equipment	No	
		IEC 61000-4-6:2008	Radio equipment	No	
	<b>Immunity</b>	<b>EN 50130-4:2011+A1:2014</b>	<b>Electrical equipment</b>	<b>No</b>	
		EN 61000-4-8:2010	Electrical equipment	No	
		EN 61000-6-1:2007	Electrical equipment	No	
		EN 61000-6-2:2005 +AC:2005	Electrical equipment	No	
		IEC 61000-4-8:2009	Electrical equipment	No	
		IEC 61000-6-1:2005	Electrical equipment	No	
		IEC 61000-6-2:2005	Electrical equipment	No	
	Voltage variations	EN 61000-4-11:2004	Electrical equipment	No	
		IEC 61000-4-11:2004	Electrical equipment	No	

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Radio frequency	Frequency	ETSI EN 300 220-1 V3.1.1 (2016-11)	Radio equipment	No	
		ETSI EN 300 220-2 V3.1.1 (2016-11)	Radio equipment	No	
		ETSI EN 300 328 V2.2.2 (2019-07)	Radio equipment	No	
		ETSI EN 300 440 V2.1.1 (2017-01)	Radio equipment	No	
		ETSI EN 303 413 V1.1.0 (2017-03)	Radio equipment	No	Only 5.5.2.2 - Radiated receiver spurious emissions test
	Performance	ETSI EN 301 893 V2.1.1 (2017-05)	Radio equipment	No	
		LoRa alliance certification - LoRa Alliance 1.0.2 specification	Wireless communication devices	No	
		Zigbee alliance certification - Zigbee Alliance 3.0 specification	Wireless communication devices	No	

Changes in the scope of accreditation are in bold.