


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>0141</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>TUV SUD Limited (Trading as TÜV SÜD)</p> <p>Issue No: 223 Issue date: 05 March 2026</p>	
	<p>Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL</p>	<p>Contact: Mrs Sandra Kitson-Wilms Tel: +44 (0) 1489 558100 Fax: +44 (0)1489 558101 E-Mail: Sandra.Kitson-Wilms@tuvsud.com Website: www.tuvsud.com/uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL</p> <p>Local contact Mrs Sandra Kitson-Wilms Tel: +44 (0)1489 558100 Email: Sandra.Kitson-Wilms@tuvsud.com Website: www.tuvsud.com/uk</p>	<p>Testing: Environmental EMC Radio Electrical Safety</p>	A
<p>Address Snitterfield Road Bearley Stratford-upon-Avon Warwickshire CV37 0EX</p> <p>Local contact Mr John Laydon Tel: +44 (0)1789 731155 Fax: +44 (0)1789 731264 Email: john.laydon@tuvsud.com Website: www.tuvsud.com/uk</p>	<p>Testing: EMC Radio Electrical Safety</p>	B
<p>Address TÜV SÜD Ltd Unit 10, Concorde Park Concorde Way Fareham Hampshire PO15 5FG</p> <p>Local contact Mrs Sandra Kitson-Wilms Tel: +44 (0)1489 558100 Email: Sandra.Kitson-Wilms@tuvsud.com Website: www.tuvsud.com/uk</p>	<p>Testing: EMC Radio</p>	G

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Any customer premises</p> <p>Local contact Mrs Sandra Kitson-Wilms Tel: +44 (0)1489 558100 Email: Sandra.Kitson-Wilms@tuvsud.com Website: www.tuvsud.com/uk</p>	<p>Testing: EMC Radio Electrical Safety</p>	E



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DETAIL OF ACCREDITATION

TUV SUD Limited is accredited for the management of a flexible scope in the areas of Environmental, EMC, Radio, SAR, Electrical Safety and Marine Equipment testing.

The flexible scope may include tests on the same or similar product types against standards, or customer-specified methods that are not specifically listed in this Schedule, providing that:

- (1) The method or standard does not introduce new principles of measurement.**
- (2) The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.**

Full Information about flexible scopes of accreditation is available in UKAS document GEN 4.



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
General Non-explosive stores and equipment including: - Aerospace Structures, Materials and Equipment Agricultural Equipment Computers and Peripherals Dangerous Goods Domestic Appliances Electrical/Electronic Components, Connectors and Products Electro-Mechanical Devices Large Shipping Cases Loaded Containers Marine Equipment Medical Devices Message Signs Mining Equipment Missiles, Missile Sub-Assemblies and Components Motor Vehicle Accessories and Components Office Equipment Packages and Packaging Material Pressure Vessels Radar Equipment Radio and Television Equipment Railway Equipment, Including Signalling Trackside and Rolling Stock Safety Appliances and Equipment Satellites and Sub-Assemblies Security Devices and Alarms	1 ENVIRONMENTAL TESTS 1.1 Vibration Types Sinusoidal (swept, stepped and dwell), Broad Band Random, Mixed Mode Vibration as follows, Fixed and Swept Sine Tones or Narrow Bands -on- Broadband Random Gun Fire (pulsed Mixed Mode). Sine-on-Random-on-Random Imported Time Histories (road load data) Up to 10 sine or narrow band tones can be superimposed on a random background either harmonically related or in unrelated groups. Common Analysis Results that accompany testing as follows Time Histories Amplitude Frequency Response Magnitude & Phase Coherence Vibration Control - Combination of up to 48 Control Monitor/ Measurement Channels	Selection of Generic Vibration Test and Measurement Standards with levels that can be met on our test machines EN 60068-2-6: 2008 IEC 60068-2-6:2007 EN 60068-2-64:2008 IEC 60068-2-64:2008 IEC 60068-2-59:1990 IEC 60068-2-80:2005 EN 50155:2017 EN 50155:2021 EN 50556:2018 Airbus ABD0007 Issue F, October 1988 Ch 3.9 EN 302 152-1 V 1.1.1:2003 Clause 6.3 EN 303 098 V2.2.1:2019 Clause 7.6 EN ISO 25197:2020+A11:2023 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018 ISO 16750-3:2012 DNVGL-CG-0339: 2019 Clause 6.2 (excluding 6.2.4 Table 9) & Clause 6.3 Lloyds Register Type Approval System, Test Specification 1 - 2019 (sections 12 to 18 and 20) DNV 2.4:2006	A



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As listed on Pages 3 & 4	1 ENVIRONMENTAL TESTS (cont'd)		
	Electromagnetic Vibrator – Smallest – cont'd	EUROCAE ED-14G 2015	A
	Frequency Range: 2 Hz to 3 kHz Max Displacement	DEF STAN 08-123 Issue 2:2012 GAM-E.G. 13B:April 1997 Method 42: Section 4.2.1.6 Procedure 1 MIL-PRF-28800F:1996 MIL-STD-740-2:1986	A
	Max Displacement: ± 25mm Max Acceleration 110g (load and frequency dependant) Max Payload – 600kg	MIL-STD 202G:Methods 201, 204 and 214 EN 54-4:1998 EN 54-16:2008 EN 61373: 2010 IEC 61373:2010	A
	Slip Table size 0.75m x 0.75m	BRB/LU RIA 20:1995, Clause 9.0	
	Peak Thrust: 35 kN (Sinusoidal & Random) Temperature Conditioning Max Temperature: + 100°C Min Temperature: - 55°C Largest Chamber Size: 1.5m x 1.5m x 0.9m Smallest Chamber Size 0.4m x 0.4m x 0.4m	EN 300 019 Part 1 – 7 inclusive HD 638 S1:2001 +A1: 2007 TR 2130C:2002, Clause 3.8, 5.2 AECTP 400 Methods 401, 405 & 420 IEC 62287-1:2017 Clause 9.2.1 EN 12830:2018 Clause 6.6.6	
	1.1(b) Single Axis Hydraulic Test Machine with optional temperature preconditioning	Selection of Specifications with tests that are achievable on our electro-hydraulic shaker	A
	Frequency Range: 2 Hz to 200 Hz	ISO 10055:1996 ASTM D999-08 :2015 ASTM D4169-16 ASTM D4728-06 ASTM D4728-17 ASTM D3580-95 ISTA Series 1, 2 & 3 AS/NZS 4280.2:2017	
	Max Displacement: ± 50mm		
	Peak Thrust: 27 kN (Sinusoidal) RMS Thrust: 21 kN (Random) Max Acceleration: 7 g vertical axis only (load and frequency dependent) Max load: 1360 kg Table Size: 1.2 x 2.1 m Temperature Preconditioning: + 100 °C, - 55°C (unit size 1.m x 2.0m)		



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.2 Shock and Bump</p> <p>1.2(a) Using Gravity Shock Machine with optional temperature pre-conditioning</p> <p>Max Duration: 60 msec (load dependent) Max Footprint: 1.2 m x 2.1m</p> <p>Classical Shock Pulse Shapes: Half Sine, Trapezoidal and Sawtooth</p> <p>Temperature Preconditioning: + 100 °C, - 55 °C for Sample Size 1.2 x 2.1m</p>	<p>Selection of Specifications with tests for Gravity Shock Machines</p> <p>EN ISO 25197:2020+A11:2023 RTCM 11010.3:2018 Clause A.7 RTCA DO 160:up to version G Section 7 ASTM D4169-09 ASTM D4169-16 ASTM D5487-98 BRU/LU RIA 20:1995 Def Stan 00-35 Part 3, Issue 4:2006 Test M3 EN 60068-2-27:2009 IEC 60068-2-27:2008 MIL-STD 202G: Method 213 IEC 62287-1:2017 Clause 9.2.2 E1A 364 Rev E: 2008 MIL-C-38999:4.7.23.1 version J MIL-STD 810 up to version H Method 516 Procedures I, II, III, and V EN 12830:2018 Clause 6.6.6</p>	A
	<p>1.2(b) Vibrator Induced</p> <p>Shock & Bump with Optional Temperature Conditioning during Shock & Bump, using a selection of chambers that are all capable of operating with slip tables</p> <p>All classical shock pulse shapes plus synthesised shock (SRS) and bump pulse shapes, simulating measured Conditions Max Thrust: 151 kN Max Displacement: ± 25 mm Max Velocity: 1.7 m/sec</p>		<p>Selection of Specifications with tests for Vibrator induced Shock & Bump</p> <p>HD 638 S1:2001 +A1:2007 EN 300 066:V1.3.1:2001 ISO 10055:1996 RTCA DO 160:up to version G Section 7 UN38 T4 TR 2130C:2002, Clause 4.5 MIL-STD 810 up to version G Method 519 Procedures I ,II and III EN 300 019 Part 2:2003 EN 60068-2-27:2009</p>



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As listed on Pages 3 & 4	1 ENVIRONMENTAL TESTS (cont'd)		
	1.3 Drop, Topple and Stability: with Optional Temperature Preconditioning	Specifications for Drop & Topple	A
	Lifting limitations Crane 5000kg Forklift 2000kg Safe Working Size – 2m x2m x2m Temperature Preconditioning +100°C - -55°C	IEC 60068-2-31:2008 EN 60068-2-31:2008 HD 638 S1:2001 +A1:2007 DEF STAN 00-35 (Part 3) Issue 4:2006 Tests M4 and M5 DEF STAN 00-035 Part 3, Issue 5:2017, Test M4 & M5 Excluding paragraph 9.3. test FX3 for Munitions MIL-STD 810 up to version G Method 516 Procedure IV MIL-STD 810H, Method 516, Procedure IV and VI TR 2130C:2002, Clauses 4.9, and 4.11 RTCM 11000.2:2002 Section A8.1 RTCM 11010.2:2012 Test A9 RTCM 11010.4:2022 IEC/EN 60945: 2002 inc. Corrigendum 1: 2008, clause 8.6 (ex water) BS/IEC 61097-2:2021 ASTM D4169-09 ASTM D4169-16 ASTM D5276-98:2017 ISTA Series 1, 2 and 3 AECTP 400 Method 414 Proc II, and III RTCM 11901.1:2012 Section 8 EN 300 225 V1.4.1: 2004-12 section 7.4 EN 300 720-1 V1.3.2 clause 7.3 AS/NZS 4280.2:2017 NSS-PLB 11:2011	A
Stability Max Load: 1360 kg Max Footprint: 1.5 m (w) x 1.5 m (d) x 2.3 m (h) Max Tilt Angle: 90 degrees	Specifications for Stability ASTM D6179-07:2014 EN 60950-1:2006+A1:2010 Section 4.1 IEC 61097-12:1996 + Amd 1:2017 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018 EN 302 152-1 V 1.1.1: 2003 Clause 6.6 EN 303 098 V2.2.1:2019 Clause 7.4, excluding 20m drop DNVGL-CG-0339: 2019 Clause 11 DNV 2.4:2006	A	



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.4 Free Fall with Optional Temperature Preconditioning</p> <p>Max Mass: 1000 kg Max Size: 2 x 2 x 2 m Max Height: 4 m</p> <p>Pre-conditioning Max temperature +100°C Min temperature -55°C</p>	<p>Specifications for Free Fall</p> <p>AS/NZS 4280.2:2017 IEC 60068-2-31:2008 AECTP 400 Method 414 Proc I MIL-STD 810 up to version H Method 516 Procedure IV DEF STAN 00-35 (Part 3) Issue 4:2006 Tests M4 and M5 DEF STAN 00-035 Part 3, Issue 5:2017, Test M4 & M5 Excluding paragraph 9.3. test FX3 for Munitions</p> <p>RTCM 11000.2 v2.1:2001 RTCM 11010.2:2012 Test A9 RTCM 11010.3:2018 Clause A.9 RTCM 11010.4:2022 ASTM D4169-09 ASTM D4169-16 ASTM D5276-98:2017 ISTA Series 1, 2 and 3 EN 300 019 Part 2 (2003-09) IEC/EN 60945: 2002 inc. Corrigendum 1: 2008, .clause 8.6 (ex water) TR 2130C:2002, Clauses 4.9, and 4.11</p>	A
	<p>1.5 Bounce with Optional Temperature Conditioning during testing</p> <p>Max Mass: 113 kg Max Size: 1.76m x 0.6m x 1m high Max Temperature: + 100°C° Min Temperature: -55°C</p> <p>Max Chamber Size 0.6m x 0.7m x 1m</p>	<p>Specifications for Bounce</p> <p>ASTM D999-08:2015 DEF STAN 00-35 Part 3 Issue 4:2006, Test M11 DEF STAN 00-035 Part 3, Issue 5:2017 test M11 IEC 60068-2-55:1987 MIL-STD 810 up to version H Change Note 1 Method 514 Procedure II AECTP 400 Method 406</p>	A
	<p>1.6 Lifting (Packages and Containers)</p> <p>Max Height (Crane): 12 m Max Mass (Crane): 5000 kg (Fork Lift Truck): 2250 kg</p>	<p>Specifications for Lifting</p> <p>DEF STAN 00-35 (Part 3) Issue 4:2006, Test M15 AECTP 400 Method 409</p>	A



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As listed on Pages 3 & 4	1 ENVIRONMENTAL TESTS (cont'd) 1.7 Static Load (Stacking) and Compression Compression Machine with Automatic Load & Displacement Control: Max Load: 13,600 kg Max Compression: 150 mm Floating or Fixed Platten Max Height of Test Item: 1.9 m Max Footprint: 1.5 m x 1.5 m Compression with Weights: 4000 kg weight combination	Specifications for Stacking DEF STAN 00-35 (Part 3) Issue 4:2006, Test M16 ASTM D4169-09 ASTM D4169-16 ASTM D642-00 ASTM D642-15 ISTA Series 1, 2 and 3 AECTP 400 Method 410	A
	1.8 Bending Max Load: 4000 kg	Specifications for Bending DEF STAN 00-35 (Part 3) Issue 4:2006, Test M17 AECTP 400 Method 411 EN 12899-1:2007 Clause 5.4.4	A
	1.9 Racking Max Mass: 4000 kg	Specifications for Racking DEF STAN 00-35 (Part 3) Issue 4:2006, Test M18 AECTP 400 Method 412	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.11 Low Temperature</p> <p>Min Temperature: - 65°C</p> <p>Largest Chamber Size: 4.9 m x 6.0 x 4.0m Smallest Chamber Size 1.5m x 1.5m x 1.5m</p>	<p>Selection of Specifications with tests that are achievable in our climatic chambers</p> <p>IEC 62287-1:2017 Table 21 EN 60068-2-1:2007 IEC 60068-2-1:2007 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021 BS 3G 100-2.3.2:1970 AECTP 300 Method 303 EN 50556:2018 DEF STAN 08-123 Issue 2:2012 DEF STAN 00-035 Part 3 Issue 5, (Low Temperature CL5) DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL4, CL5 MIL-STD 810 up to version H: Method 502, Procedures I, II and III RTCA DO160: up to version G: Section 4 TR 2130C:2002, Clause 3.3 IEC/EN 60945:2002 inc. Corrigendum 1: 2008,Section 8.4 EN 50125-3:2003 Section 4.3 RTCM 11010.2:2012 Section A5 EN 50155:2007 Para 4.1.2 EN 50155:2017 EN 50155:2021 EN 300 019 Part 2: 2003-09 EN 300 066:V1.3.1:2001 HD 638 S1:2001 + A1:2007 RTCM 11901.1:2012 Section 8 EN 300 225 V1.4.1: 2004-12 sections 7.6.4 and 11.2.3.4 EN 300 720-1 V1.3.2 clause 5.5 EN 302 152-1 V 1.1.1:2003 Clause 6.2.3 EN 303 098 V2.2.1:2019 Clause 7.5.4 EN ISO 25197:2020+A11:2023 EUROCAE ED-14G 2015 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018 ISO 16750-4:2010 RTCM 11010.3:2018 Clause A.5 and A.13 RTCM 11010.4:2022 Lloyds Register Type Approval System, Test Specification 1 - 2019 (sections 12 to 18 and 20) DNV 2.4:2006 NSS-PLB 11:2011</p>	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.12 High Temperature</p> <p>Max Temperature: + 200°C Max Chamber Size: 450 x 480 x 650 mm</p> <p>Max Temperature: + 150°C Max Chamber Size: 1.48 x 1.48 x 1.48m</p> <p>Max Temperature: + 120°C Max Chamber Size: 2.5 x 2.3 x 2.7m</p> <p>Max Temperature: + 100°C Max Chamber Size: 5.0 x 6.0 x 4.0m</p>	<p>Selection of Specifications with tests that are achievable in our climatic chambers</p> <p>AS/NZS 4280.2:2017 EN 50556:2018 IEC 62287-1:2017 Table 21 DEF STAN 00-035 Part 3 Issue 5, (High Temperature CL2) IEC 60068-2-2:2007 EN 60068-2-2:2007 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021 BS 3G 100-2.3.2:1970 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL1 MIL_STD 810 up to version H Method 501, Procedures I, II and III AECTP 300 Method 302 RTCA DO-160 up to version G Section 4 TR 2130C:2002, clause 3.2 RTCM 11901.1:2012 Section 8 HD 638 S1:2001 +A1:2007 RTCM 11010.2:2012 Section A3 RTCM 11000.2:2002 Section A3 RTCM 11010.3:2018 Clause A.3 and A.13 RTCM 11010.4:2022 EN 300 066:V1.3.1:2001 IEC/EN 60945:2002 inc. Corrigendum 1:2008, Clause 8.2 EN 50155:2007 Para 4.1.2 EN 50155:2017 EN 50155:2021 EN 300 019 Part 2:2003</p> <p>EN 300 225 V1.4.1: 2004-12 sections 5.3, 5.4, 5.5, 7.6.2 and 11.2.3.2 EN 300 720-1 V1.3.2 clauses 7.4.2 and 5.5 EN 302 152-1 V 1.1.1:2003 Clause 6.2.2 EN 303 098 V2.2.1:2019 Clause 7.5.2 NSS-PLB 11:2011 EUROCAE ED-14G 2015 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018 DNV 2.4:2006 DNVGL-CG-0339: 2019 Clause 7 Lloyds Register Type Approval System, Test Specification 1 - 2019 (sections 12 to 18 and 20) EN ISO 25197:2020+A11:2023 ISO 16750-4:2010</p>	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.13 Change of Temperature (Temperature Shock and Temperature Variation) Temperature Shock – two chamber method</p> <p>Small Products Max Temperature: 200°C</p> <p>Min Temperature: - 65°C Max Chamber Size: 450 x 480 x 650 mm</p> <p>Large Products Max Temperature:+71°C Min Temperature: -46°C Max Product Size 1.5m x 1.5m x 1.5m with max weight 1000kg</p> <p>Temperature Variation</p> <p>Chamber Size 1.48m x 1.48m x 1.48m Temperature Extremes: +100°C / -60°C @ 10°C/min average</p>	<p>Specifications for Temperature Shock</p> <p>DEF STAN 00-35 (Part 3) Issue 4 :2006, Test CL 14 Procedure A EN 12830:2018 Clauses 6.6.3 & 6.6.4, Excluding Classes 0.2 & 0.5 EN 60068-2-14:2009 IEC 60068-2-14:2009</p> <p>RTCM 11010.2:2012 Section A10 MIL STD 202G:Method 107 MIL STD 810 up to version H: Method 503 EN 300 066:V1.3.1:2001 EN 300 225 V1.4.1: 2004-12 section 7.9 EN 302 152-1 V 1.1.1:2003 Clause 6.7 EN 303 098 V2.2.1:2019 Clause 7.8 IEC/EN 60945: 2002 inc. Corrigendum 1: 2008, Clause 8.5 IEC 61097-12:1996 + Amd 1:2017 TR 2130C:2002, Clause 3.4</p> <p>HD 638 S1:2001 + A1: 2007 AECTP 300 Method 304 RTCM 11000.2:2002 Section A11 RTCM 11901.1:2012 Section 8</p> <p>RTCM 11000.3:2012 Clause A.8 & A8.1 RTCM 11010.3:2018 Clause A.10 RTCM 11000.4 + A1:2016 Clause A.8 & A8.1 RTCM 11010.4:2022</p> <p>Specifications for Temperature Variation</p> <p>RTCA DO160 up to version G: Section 5 DEF STAN 00-35 (Part 3) Issue 4 :2006, Test CL 14 Procedure B EUROCAE ED-14G 2015 DNVGL-CG-0339: 2019 Clause 9 BS/IEC 61097-2:2021</p>	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.14 Damp Heat</p> <p>Humidity Range: 15% to 95% RH Temperature: +10°C to +70°C</p> <p>Max Chamber Size: 5.0 x 6.0 x 4.0 m</p> <p>Additional levels: 25°C, 97% RH; 85°C, 85% RH Humidity Range 10% to 97% RH Temperature: +5°C to +70°C</p> <p>Walk in Chamber Additional levels: 25°C, 97% RH; 85°C, 85% RH</p> <p>Humidity Range 15% to 97% RH Temperature: +5°C to +85°C</p> <p>Small chamber Size: 1.5m x 1.5m x 1.5m Note: Traceable humidity tests to dew points of 81°C</p>	<p>Selection of Specifications with tests that are achievable in our humidity chambers</p> <p>AS/NZS 4280.2:2017 DEF STAN 00-035 Part 3 Issue 5, (Humidity CL6 and CL2) EN 50155:2017 EN 50155:2021 EN 50556:2018 EN 60068-2-78:2013 IEC 62287-1:2017 Table 21 EN 60068-2-30:2005 IEC 60068-2-78:2001 IEC 60068-2-30:2005 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021 BS 3G 100-2.3.7:1972 EN ISO 25197:2020+A11:2023 ISO 16750-4:2010, excluding clause 5.6.2.3, Test Z/AD EN 300 019 Part 2:2003 RTCA DO 160 up to version G: Section 10.3.1 - condensation Def Stan 00-35 Part 3 Issue 4:2006 Tests CL6 and CL17 (induced temperatures only) TR 2130C:2002, Clause 3.5 IEC 60945:2002 inc. Corrigendum 1:2008, Clause 8.3 MIL-STD 810 up to version H: Method 507 RTCM 11901.1:2012 Section 8 MIL-STD 202G:Methods 103 and 106 RTCA DO 160 up to version G: Section 6 EN 300 066:V1.3.1:2001 HD 638 S1:2001 + A1:2007 AECTP 300 Method 306 RTCM 11010.2:2012 Section A4 RTCM 11000.2:2002 Section A4 EN 300 225 V1.4.1: 2004-12 sections 7.6.3 and 11.2.3.3 EN 300 720-1 V1.3.2 Clause 7.4.3 EN 303 098 V2.2.1:2019 Clause 7.5.3 NSS-PLB 11:2011 DEF STAN 08-123 Issue 2:2012 EUROCAE ED-14G 2015 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018 DNV 2.4:2006 DNVGL-CG-0339: 2019 Clause 8.2 & 8.3 Lloyds Register Type Approval System, Test Specification 1 – 2019 (sections 12 to 18 and 20) RTCM 11010.3:2018 Clause A.4 RTCM 11000.3:2012 Clause A.10 & A.10.1 RTCM 11000.4 + A1:2016 Clause A.10 RTCM 11010.4:2022</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p>



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2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

TUV SUD Limited (Trading as TÜV SÜD)
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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.15 Low Pressure/Temperature/ Humidity Combined</p> <p>Max Temperature: + 90°C Min Temperature: - 65 °C</p> <p>Min Pressure: 4.0kN/m²</p> <p>Steam Injection above 40 kN/m² Max Size: 900mm diameter x 840mm</p>	<p>Selection of Specifications with tests that are achievable in our altitude chambers</p> <p>IEC 60068-2-38:2009 IEC 60068-2-39:1999 IEC 60068-2-39:2015 IEC 60068-2-40:1976 including Amendment 1 IEC 60068-2-41:1976 including Amendment 1 IEC 60068-2-61:1991 EN 60068-2-38:1999 EN 60068-2-39:1999 EN 60068-2-39:2016 EN 60068-2-40:2000 EN 60068-2-41:2000 EN 60068-2-61:1994 AECTP 300 Method 317 NSS-PLB 11:2011 RTCA DO 160 up to version G Section 4 MIL-STD 810 up to version H: Method 500 Proc I, II and III AECTP 300 Method 312 Proc II and III Def Stan 00-35 Part 3 Issue 4:2006 DEF STAN 00-035 Part 3 Issue 5, (Pressure Temperature CL11) Tests CL9 (Rapid), CL11 CL12, CL13 & CL20 BS 3G 100-2.3.2:1970 BS 3G 100-2.3.4:1972 EUROCAE ED-14G 2015</p>	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.16 High Pressure</p> <p>High Pressure Air only: Temperature: Ambient Max Pressure: 549 kN/m² Max Chamber Size: 600 mm diameter x 750 mm</p> <p>High Pressure Air over Water: Temperature: Ambient Max Pressure: 680 kN/m² Max Chamber Size: 600 mm diameter x 750 mm Maximum water depth in the tank - 650mm See also 1.18</p>	<p>Selection of Specifications with tests that are achievable in our over-pressure chamber</p> <p>DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 15 EN 300 066:V1.3.1:2001 IEC/EN 60945:2002 inc. Corrigendum 1: 2008, Clause 8.9 RTCA DO-160 up to version G: Section 4.6.3</p> <p>DEF STAN 08-123 Issue 2:2012</p>	A
	<p>1.17 Low Air Pressure only (see also 1.15)</p> <p>Min Pressure: 4.0 kN/m² Max Size: 900 x 800mm</p>	<p>Selection of Specifications with tests that are achievable in our altitude chambers</p> <p>IEC 60068-2-13:1983 EN 60068-2-13:1999 BS 3G 100-2.3.2:1970 DEF STAN 00-35 (Part 3) Issue 4:2006, Tests CL 21 AECTP 300 Method 312Proc I MIL-STD 202G:Method 105 EN 300 019 Part 2:2003 RTCA DO-160 up to version G: Section 4.6.1 RTCM 11010.3:2018 Clause A.20.9</p>	A



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.18 Tests for Protection against effects of Water</p> <p>Immersion Tests Immersion Tank Sizes: 1 x 1 x 2.2 m (h) 1.45 m x 0.85 m diameter 1.75 m x 1.48 m diameter</p> <p>High Pressure Air over Water: Temperature: Ambient</p> <p>Max Pressure: 680 kN/m² Max Chamber Size: 600 mm diameter x 750 mm</p> <p>Maximum water depth in the tank 650mm Maximum equivalent sea water depth – 55m</p> <p>Drip Tests: 0.8 m x 0.8m test area 25mm nozzle matrix 350l/m²/hr nominal drip rate 200mm nozzle matrix - 280l/m²/hr nominal drip rate</p>	<p>Selection of Specifications with tests that are achievable in our water test facilities</p> <p>Immersion Standards AECTP 300 Method 307 MIL-STD 202G:Method 104, DEF STAN 00-35 (Part 3) Issue 4 :2006 Test CL29</p> <p>IEC/EN 60945:2002 inc. Corrigendum 1: 2008, Clauses 8.8, 8.9 and 8.11 RTCM 11010.2:2012 Section A11 RTCM 11000.2:2002 Section A9 RTCM 11010.3:2018 Clause A.11 RTCM 11010.4:2022 MIL-STD 810 up to version H: Method 512 Procedure I EN 50556:2018 IEC 60068-2-17:1994 Test Qf EN 60068-2-14:2009 IEC 60068-2-14:2009 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021 AS/NZS 4280.2:2017 NSS-PLB 11:2011 EN 300 066:v1.3.1:2001 section 6.8 EN 300 225 V1.4.1: 2004-12 section 7.8 RTCM 11901.1:2012 Section 8 EN12245:2009 Section 5.2.7 Test 7</p> <p>Drip Test Standards BS 3G 100-2.3.11:1973 Test B DEF STAN 00-35 (Part 3) Issue 4:2006 Test CL28</p> <p>MIL-STD 810 up to version H: Method 506 Procedure III RTCA DO160:up to version G: Section 10.3.2 RTCA DO-160G: Section 10.3.3</p>	<p>A</p> <p>A A</p>



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.18 Tests for Protection against effects of Water (cont'd)</p> <p>Rain Tests: 3m x 3m x 3m test area 200 mm/hr deposition rate</p>	<p>Selection of Specifications with tests that are achievable in our water test facilities</p> <p>Rain Test Standards DEF STAN 00-35 (Part 3) Issue 4:2006 Test CL27</p> <p>DEF STAN 08-123 Issue 2:2012 IEC/EN 60945:2002 inc. Corrigendum 1: 2008, Section 8.8 EN 300 019 Part 2:2003-09 MIL-STD 810 up to version H: Method 506 Procedure I (not blown) and Method 512 AECTP 300 Method 310</p> <p>RTCM 11901.1:2012 Section 8 BS 3G 100-2.3.11:1973 Test A RTCA DO160: up to version G Section 10.3.4 UL 50E, third edition:2020. Section 8.4.1, 170l/min hose test only</p>	A
	<p>High Pressure Water Jet</p> <p>Ingress Protection (IP) Tests including drip, water spray and immersion Note for Drip & Immersion tests, see above for facility sizes IP X1 – drip rig and 1rev/min turntable (max weight 30kg) IPX2 – drip rig IPX3 – spray with counterbalance</p> <p>IPX3 – oscillating tube diameters 1200mm, 800mm & 400mm</p> <p>IPX4 – spray without counterbalance</p> <p>IPX5 – 6.5mm diameter nozzle IPX6 – 12.5mm diameter nozzle</p> <p>IPX7 & 8 – Immersion Tanks (see above)</p>		<p>IP Standards</p> <p>EN 60529:1992, IPX1 to IPX8 inclusive IEC 60529:1989 + A1:1999 IPX1 to IPX8 inclusive EN 60529: 1992 + A2:2013, excluding IPX9 IEC 60529:1989 + A2:2013 excluding IPX9 EN 60068-2-18:2001 Test Ra, Rb and Rc HD 638 S1:2001 + A1:2007 EN 60068-2-18:2017 excluding Ra1 & Rb3 EN 302 152-1 V 1.1.1: 2003 Clause 6.8 EN 303 098 V2.2.1:2019, Clause 7.13 Protection of the Transmitter to Immersion EUROCAE ED-14G 2015 Lloyds Register Type Approval System, Test Specification 1 – 2019 (sections 12 to 18 and 20) EN 12830: 2018 Clause 6.6.7, excluding solids</p>



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As listed on Pages 3 & 4	<p>1 ENVIRONMENTAL TESTS (cont'd)</p> <p>1.19 Corrosion</p> <p>Max Size: 920 x 920 x 920 mm Various concentrations of sodium chloride and other corrosive solutions</p>	<p>Selection of Specifications with tests that are achievable in our salt corrosion chamber</p> <p>IEC 60068-2-11:1981 IEC 60068-2-52:1996 EN 60068-2-11:1999 EN 60068-2-52:1996 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021 UL 50E, third edition:2020. Section 8.8 & 8.9 corrosion only BS 3G 100-2.3.8:1972 DEF STAN 00-35 (Part 3) Issue 4:2006 Test CN 2 DEF STAN 08-123 Issue 2:2012 EN 300 066:V1.3.1:2001 EN 300 225 V1.4.1: 2004-12 sections 7.7 and 11.2.4 EN 302 152-1 V 1.1.1:2003 Clause 6.5 EN 303 098 V2.2.1:2019 Clause 7.7 AECTP 300 Method 309 IEC/EN 60945:2002 inc. Corrigendum 1: 2008, Section 8.12 MIL-STD 810 up to version H: Method 509 MIL-STD 202G:Method 101 RTCA DO160: up to version G Section 14 ASTM B117-07 RTCM 11000.2:2002 Section A7 RTCM 11010.2:2012 Section A8 RTCM 11010.3:2018 RTCM 11010.4:2022 EN ISO 9227:2012 EN ISO 9227:2017, neutral salt spray tests only EUROCAE ED-14G 2015 RTCM 11901.1:2012 Section 8 DNV 2.4:2006 DNVGL-CG-0339: 2019 Clause 10 Lloyds Register Type Approval System, Test Specification 1 – 2019 (sections 12 to 18 and 20) EN 50155:2017 IACS UR E10 Rev.6: 2014 IACS UR E10 Rev.7: 2018</p>	<p>A</p> <p>A</p> <p>A</p>



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As listed on Pages 3 & 4	1 ENVIRONMENTAL TESTS (cont'd) 1.20 Icing/Freezing Rain Test Deposition of Glaze Ice or Rime Ice Min Temp: - 40°C Max Chamber Size: 5.0 x 6.0 x 4.0m	Specifications for Icing & Freezing Rain EUROCAE ED-14G 2015 DEF STAN 08-123 Issue 2:2012 DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL10 RTCA DO160: up to version G Section 24 MIL-STD 810 up to version H: Method 521 AECTP 300 Method 311	A
	1.21 Rapid Decompression Chamber Size 900mm x 800mm Temperature: Ambient	Specifications for Rapid Decompression DEF STAN 00-35 (Part 3) Issue 4:2006, Test CL 9 MIL STD: 810 up to version H Method 500 Procedure III EUROCAE ED-14G 2015 RTCA DO-160: up to version G section 4.6.2	A
	1.22 Fluid contamination Oil Resistance	Selection of Specifications with tests that are achievable in our fluid contamination facilities ETSI EN 300 066:v1.3.1:2001 section 6.12 ETSI EN 300 225 V1.4.1:2004-12 section 7.11 ETSI EN 303 098 V2.2.1 :2019, Clause 7.12 Oil Resistance MIL-STD 810 up to version H: Method 504 RTCM 11000.3:2012 Clause A.11 RTCM 11010.3:2018 Clause A.18 RTCM 11000.4 + A1:2016 Clause A.10 RTCM 11010.4:2022 IEC 61097-12:1996 + Amd 1:2017 BS/IEC 61097-2:2021	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	3 CIVIL EMC TESTS		
	3.1 Conducted Emissions		
Information Technology Equipment	AC / DC Mains Port	BS EN IEC 55014-1:2021, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing	A, B
Electrical Equipment for operation in residential and light industrial environments	LISN / AMN 9 kHz to 30 MHz	BS EN 55025:2017 Excluding clauses 5, 6.6 & 6.7	A, B
Industrial Apparatus Operating at Less than 1000 V AC or from Special Power Sources Connected to Public, Low-Voltage, Mains Supplies	Wired Network Port ISN / AAN 150 kHz to 30 MHz	CISPR 11, ed 5.1:2010 CISPR 11, ed 6.1:2016 CISPR 11, ed 6:2015 CISPR 11, ed 5:2009 CISPR 12, ed 5.1:2005 CISPR 12, ed 5:2001 CISPR 13, Ed 5.1:2015 Table 1 Applicable Only	A, B A, B A, B A, B A, B A, B A, B
	Wired Network Port Capacitive Voltage Probe / Current Probe 150 kHz to 30 MHz	CISPR 14-1: 2005 +A1: 2008 excluding use of EN 55015 & EN 61000-4-20 method	A, B
		CISPR 14-1:2020, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing	A, B
Aerospace Components and Equipment Aerospace Structures	Shielded Fibre Optic Port	CISPR 25, ed 3:2008 excluding clauses 5, 6.5 & 6.6	B
Agricultural Equipment Batteries and Cells	Capacitive Voltage Probe/ Current Probe 150 kHz to 30 MHz	CISPR 25, ed 4:2016 excluding clauses 5, 6.6 & 6.7 CSA CISPR 11:19 ECE Regulation 10.03:2008 Annex 10 ECE Regulation 10.04:2012 Annex 10 ECE Regulation 10.05:2014 Annex 10, 19 and 20	B A, B B B B
Circuit Breakers and Switches Compressors Computers and Peripherals	Antenna Port	ECE Regulation 10.06:2019 Annex 10, 19 and 20	B
Construction Plant and Equipment Construction Products Domestic Appliances:	Capacitive Voltage Probe / Current Probe 150 kHz to 30 MHz	EN 55011:2009 including Amendment 1:2010	A, B
Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electronic Products: Digital Electro-Mechanical Devices Enclosures for Electrical Equipment Fans Filters and Filter Media Fire Fighting and Detection Equipment Generators: Electrical Generators: Power Generators: Welding Hydraulic Equipment and Fittings Industrial Trucks Instruments: Indicating or Recording Insulating Materials: Electrical	Broadcast Receiver Port	EN 55011:2016 + A1:2017 EN 55011:2016+A11:2020 EN 55013:2013+A1:2016 Table 1 Applicable Only	A, B A, B A, B
		EN 55014-1:2017+A11:2020 4- excluding the use of EN 61000-20, EN 61000-4-22 and Table 4 EN IEC 55014-1:2021, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing	A, B A, B



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	3 CIVIL EMC TESTS (cont'd)		
	3.1 Conducted Emissions (cont'd)		
IT Equipment	Current Probe 150 kHz to 30 MHz	EN 55015:2006 including Amendment A2:2009 Limited to LED Products	A, B
Lamps: Electric		EN 55025:2017 Excluding clauses 5, 6.6 & 6.7	A, B
Lawnmowers		EN 60255-25:2000	A, B
Lifting Gear	FM broadcast receiver tuner	ICES-001, Issue 4:2006	A, B
Luminaires	ports with an accessible connector	J55013:1998	A, B
Magnetic Materials	Coupler/Mixer	J55013:2010	A, B
Marine Equipment	150 kHz to 2150 MHz	J55032:2017	A, B
Measuring Equipment		KS C 9832:2024	A, B
Mechanical Products and Plant	Signal / Control Ports	VCCI 27 th Edition:2013	B
Medical/Dental Equipment	Current Probe 9 kHz to 30 MHz		
Message Signs	Disturbance Power		
Micro-Electronic Circuits and Components	30 MHz to 300 MHz		
Mining Equipment			
Components			
Mining Plant and Equipment			
Motor Vehicle Accessories and Components			
Motor Vehicles			
Motors: Electrical			
Office Equipment: Electrical			
Optical and Photometric Equipment			
Plugs and Sockets: Electrical			
Power Supplies: Electrical			
Printed Circuit Boards			
Pumps			
Radar Equipment			
Radio and TV Equipment			
Radiocommunications Equipment			
Recreational and Sporting Equipment			
Rescue Appliances/ Equipment			
Safety Appliances and Equipment			
Satellites and Sub-assemblies			
Security Devices and Alarms			
Security Equipment			
Smoke Detectors			
Sonar Equipment			
Structural Components and Fittings			
Switchboards: Electrical			
Tools: Machine			
Toys			
Transformers: Electrical			
Video Equipment			
Waste Handling Equipment			
Weapons and Sub-assemblies			



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As listed on Pages 23 & 24	<p>3 CIVIL EMC TESTS (cont'd)</p> <p>3.2 Radiated Emissions</p> <p>Magnetic Field: 10 kHz to 30 MHz Electric Field: 30 MHz to 40 GHz Interference Power: 0.15 MHz to 300 MHz Effective Isotropic Radiated Power: 30 MHz to 40 GHz</p>	<p>2004/104/EC 2006/28/EC 95/54/EC Annexes VII and VIII</p> <p>97/24/EC Chapter 8 AS/NZS CISPR 11:2004 BS EN IEC 55014-1:2021, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing BS EN 55025:2017 Excluding clauses 5, 6.6 & 6.7 CISPR 11, ed 5.1:2010 CISPR 11, ed 6.1:2016 CISPR 11, ed 6:2015 CISPR 11, ed 5:2009 CISPR 12, Ed 5:2001 CISPR 13, Ed 5.1:2015 Table 1 Applicable Only CISPR 14-1: 2005 +A1: 2008 excluding use of EN 55015</p> <p>CISPR 14-1:2020, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing CISPR 25, ed 3:2008 excluding clauses 5, 6.5 & 6.6 CISPR 25, ed 4:2016 excluding clauses 5, 6.6 & 6.7 CSA CISPR 11:19</p> <p>ECE Regulation 10.03:2008 Annex 7 and 8 ECE Regulation 10.04:2012 Annex 7 and 8 ECE Regulation 10.05:2014 Annex 7 and 8 ECE Regulation 10.06:2019 Annex 7 and 8 EN 50498:2010 EN 55011:2009 including Amendment 1:2010 EN 55011:2016 + A1:2017 EN 55011:2016+A11:2020 EN 55013:2013+A1:2016 Table 1 Applicable Only EN 55014-1:2017+A11:2020 excluding the use of EN 61000-4-20, EN 61000-4-22 and Table 4 EN IEC 55014-1:2021, Excludes EN 61000-4-20 TEM Cell and EN 61000-4-22 FAR optional testing EN 55015:2006 including Amendment A2:2009 Limited to LED products EN 55025:2017 Excluding clauses 5, 6.6 & 6.7</p>	<p>B B B</p> <p>B A, B A, B</p> <p>B A, B A, B A, B A, B A, B A, B A, B A, B A, B</p> <p>A, B A, B</p> <p>B B A, B</p> <p>B B B B A, B A, B A, B A, B A, B A, B A, B</p>



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As listed on Pages 23 & 24	3 CIVIL EMC TESTS (cont'd) 3.6 Immunity to Power Frequency Magnetic Field	EN 61000-4-8:2010 EN 61000-4-9:2016 IEC 61000-4-8 ed 1.1:2001 IEC 61000-4-8 ed 2:2009 IEC 61000-4-8:ed1:1993 including Amendment 1:2000 IEC 61000-4-9 ed1.1:2001 IEC 61000-4-9:2016	A, B A, B A, B A, B A, B A, B A, B
	3.7 Immunity to close Proximity Fields 30 kHz, 134.2 kHz and 13.56 MHz	EN 61000-4-39:2017 Radiated Fields (methods covering spot frequencies as required in) EN 60601-1-2:2015+ A1:2021 IEC 60601-1-2:2014+ A1:2020	A, B
	3.8 Mains Surges and Transients	ECE Regulation 10.03:2008 Annex 10 ECE Regulation 10.04:2012 Annex 10 ECE Regulation 10.05:2014 Annex 10, 21 and 22 ECE Regulation 10.06:2019 Annex 10, 21 and 22 EN 61000-4-4:1995 including Amendment A1:2001 and Amendment 2:2001 EN 61000-4-4:2004 including Amendment A1:2010 and Corrigenda 2006 & 2007 EN 61000-4-4:2012 EN 61000-4-5:2006 EN 61000-4-5:2014 EN 61000-4-5:2014 + A1:2017 IEC 61000-4-4 ed 2:2004 IEC 61000-4-5 ed 2:2005 IEC 61000-4-5:2014 + A1:2017 ISO 7637:Parts 1 and 2:1990 Except Pulse 1b, limited to level 1 and 2 only ISO 7637-2:2004 ISO 7637-2:2011	A, B A, B B B A, B A, B A, B A, B A, B A, B A, B A, B A, B A, B A, B A, B A, B A, B
	3.9 Mains Dips and Interruptions	EN 61000-4-11:2004 A1:2017 EN 61000-4-29:2001 EN IEC 61000-4-11:2020 Single phase supply <=16A Only IEC 61000-4-11:ed 2:2004 A1:2017	A, B A, B A, B A, B
	3.10 Electrostatic Discharge to 25 kV	EN 61000-4-2:2009 IEC 61000-4-2 ed2: 2008 ISO 10605:2008 Am1:2014	A, B A, B A, B



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As listed on 23 & 24	<p>3 CIVIL EMC TESTS (cont'd)</p> <p>3.11 Generic and Product Specific Standards (cont'd) These standards, which refer to basic standards, are included in this Schedule, but only to the extent that the referenced standards are explicitly included in Sections 3.1 to 3.10 of the Schedule.</p>	<p>EN 12895:2000 EN 12966: 2014 Section 4.5.4 EN 12966:2014+A1:2018 EN 300 386 v1.6.1.2012 Excluding Harmonics & Flicker measurements above 16 Amps EN 300 386:V1.3.2:2003 EN 300 386:V1.3.3:2005 EN 300 386:V1.4.1:2008 EN 300 386:V1.5.1:2010 Excluding Harmonics & Flicker measurements above 16 Amps EN 300 386:V1.3.1:2001 EN 301 489-1 V2.2.3:2019 EN 301 489-2 V2.1.1:2019 EN 301 489-10:V1.1.1:2000</p>	<p>A, B A, B A, B A, B A, B A, B A, B A, B A A, B, G A, B, G A, B</p>



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Base-Stations and Mobiles Cell Extenders Cellular Infrastructure Radio Equipment Cellular Telephones Communication and Control Systems Cordless Telephones Digital and Analogue CB Radio Digital Short Range Radio Emergency Positioning Indicator Radio Beacon (EPIRB) ERMES Pager Systems Frequency Hopping Radio LAN Equipments GSM Base-Station Equipment Low Power Devices (Transmitters) Low Power Induction Marine Digital Selective Calling Modems and Radios Maritime Radio Equipment On-Frequency Repeaters Pagers Paging Systems Personnel Locator Beacons Pocket Radio Equipment Private Mobile Radio Radio Security Equipment, Onsite and Wide Area Search and Rescue Radar Transponders Spread Spectrum Radio LAN Equipments	5 RADIO TESTING Frequency Range: 10 Hz to 40 GHz Temperature: -25°C to +55°C Relative Humidity: 20% to 75%	EN 300 440:V2.1.1:2017	A, G
	5.1 Emission-- Effective	EN 302 065-1 V2.1.1:2016 EN 302 065-2 V2.1.1:2016 EN 302 066 V2.2.1:2020, Excluding "Large" GPR/WPR devices	A, G A, G A
	Radiated Power:	EN 300 440 V2.2.1:2018	A, G
	5.2 Emissions Conducted: 100 Hz to 18 GHz	EN 300 113 V2.2.1:2016	A
	5.3 Maximum Frequency Deviation: 10 Hz to 100 kHz	EN 302 152-1:V1.1.1:2003 EN 300 220-1:V3.1.1:2017 EN 300 220-2:V3.1.1:2017 EN 300 225 V1.5.1:2015 EN 300 296 V2.1.1:2016	A A A A A
	5.4 Transmitter Carrier Power: 10 W to 4 kW	EN 300 328 V2.2.2:2019 EN 300 328 V2.2.2:2019 Clauses 4.3.1.10, 4.3.1.11, 4.3.2.9 & 4.3.2.10 Only EN 300 330:V2.1.1:2017 EN 300 338-1:V1.4.1:2017 excluding sound pressure level testing	A, G B
	5.5 Intermodulation	EN 300 338-1:V1.4.2:2017 EN 300 338-1 V1.6.1:2021 EN 300 338-2:V1.4.1:2017, excluding sound pressure level testing EN 300 338-2 V1.5.1:2020, excluding sound pressure level testing	A A A A
	5.6 Tone Squelch Threshold	EN 300 338-3:V1.2.1:2017, excluding sound pressure level testing EN 300 338-3 V1.3.1:2020, excluding sound pressure level testing	A A
	5.7 Code Frequency	EN 300 338-5:V1.2.1:2017, excluding sound pressure level testing EN 300 338-5 V1.3.1:2020, excluding sound pressure level testing	A A
	5.8 Decoder Response Time		
	5.9 Selective Signal Threshold		



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As listed on Page 35	5 RADIO TESTING (cont'd)		
	5.10 Selective Signalling Code Selectivity		
	5.11 Encoder Frequency		
	5.12 Encoder Modulation		
	5.13 Encoder Data Rate		
	5.13 Encoder Data Rate (cont'd)		
	5.15 Effective Receiver Sensitivity: 1 GHz to 40 GHz		
	5.16 Transmitter Transients: 26 MHz to 1.3 GHz		A
	5.17 Blocking and Desensitisation: 100 kHz to 4 GHz		
	5.18 Frequency Error: 10 MHz to 40 GHz	EN 300 676-1: V1.5.2:2011 Excluding clauses 7.4.5, 8.14 and 8.16	A A
	5.19 Permitted Range of Operation Frequencies: 10 Hz to 40 GHz	EN 300 676-2:V2.1.1:2015	A
	5.20 Adjacent Channel Power: to 90 dBc		
	5.21 Out of Band Power: 10 Hz to 40 GHz		
	5.22 Adjacent Channel Selectivity: 100 kHz to 1 GHz	EN 301 025:V2.2.1:2017 EN 301 025 V2.3.1:2021 EN 301 178:V2.2.2:2017 EN 300 394-1 V3.3.1:2015 Clauses 7.1.6, 7.2.9, 8.6 and 9.9.only	A A A A
5.23 Maximum Usable Sensitivity: 9 kHz to 1 GHz			
5.24 Reference Sensitivity: 100 kHz to 1 GHz	EN 300 720:V2.1.1:2017	A	
5.25 Intermodulation Response: (2 and 3 Generator Method): 100 kHz to 1 GHz	EN 301 357:V2.1.1:2017	A	
5.26 Mis-Operation (Adverse Power Supply): 100 kHz to 4 GHz	EN 301 681:V2.1.2:2016 EN 301 441:V2.1.1:2016	A A, G	



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	5.27 Spurious Response Rejection: 10 Hz to 4 GHz	EN 301 721:V2.1.1:2016 EN 301 783 V2.1.1:2016, Transmitter Tests limited to 2 kW for measurements <= 500 MHz and <100W for measurements >1 GHz.	A A
		EN 301 925 V1.4.1:2013 EN 301 925 V1.6.1:2020	A A
	5.28 Encoder Response		
	5.29 Amplitude Characteristics of Receiver: 100 kHz to 1 GHz	EN 300 698 V2.2.1:2017 EN 300 698 V2.3.1:2018	A A
	5.30 Co-Channel Rejection: 100 kHz to 1 GHz	EN 301 033:V1.2.1:2005 excluding clause 8.10 EN 301 033 V1.4.1:2013, Excluding clause 8.12 EN 301 091-1 V2.1.1:2017 EN 301 091-2 V2.1.1:2017 EN 301 126-1 V1.1.2:1999	A A A A A
	5.31 AF Response of Modulation Frequencies: > 2.55 kHz	EN 301 893:V2.1.1:2017 EN 301 893 V2.1.1:2017, Clauses 4.2.4.1 & 4.2.5 Only EN 301 893 V2.2.1:2024 EN 301 893 V2.2.1:2024, Clauses 4.2.4.1 & 4.2.5 Only	A, G B A, G B
	5.32 Modulation Distortion: 20 MHz to 950 MHz	EN 301 908-1 V13.1.1:2019 EN 301 908-14 V13.1.1:2019 EN 301 908-1 V15.1.1:2021, 5G NR Excluded from Scope EN 301 908-1 V15.1.1:2021, Clause 4.2.2 only	A A, G A B
	5.33 Transmitter Noise and Hum: 20 MHz to 950 MHz	EN 301 908-1 V15.2.1:2023, 5G NR FR2 Excluded from Scope EN 301 908-1 V15.2.1:2023, Clause 4.2.2 Only, 5G NR FR2 Excluded from Scope	A, G B
	5.34 Harmonic Content and Output Power: 10 Hz to 100 kHz	EN 302 208 V3.1.1:2016 Excluding Clause 4.3.8 EN 302 208 V3.3.1:2020 EN 302 502:V2.1.1:2017 EN 302 561 V2.1.1:2016 EN 302 567 V2.2.1:2021 Draft EN 302 571 V2.1.18:2021 Excluding Clause 4.2.9	A A A A A A
	5.35 Modulation	EN 302 617-1:V2.3.1:2018	A
	5.36 Squelch Facility: 100 kHz to 1 GHz		
	5.37 Accuracy and Stability of Timing Parameters	EN 302 217-2 V3.3.1:2021, Excluding Clauses 4.4 and 5.4 - Antenna Characteristics	A



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As listed on Page 35	5 RADIO TESTING (cont'd)		
	5.38 Bit Error Rate Measurements		
	5.39 Multiple Watch Characteristic, Peak Power Density		
	5.40 Transient Frequency Behaviour		
	5.41 Residual Modulation	EN 303 098 V2.2.1:2019, Clause 8 – Tests of the AIS Transmitter Only	A
	5.42 Data Message Bit Rate 6GHz RLAN	Draft EN 303 687 v1.0.0:2022 EN 303 687 V1.1.1:2023	A, G A, G
	5.43 Message Data Content		
	5.44 Frequency Stability		
	5.45 Power Rise and/or Fall Time	COSPAS/SARSAT T.007 Issue 5: May 2017 including Revision 1: Feb 2018, Revision 2: Jun 2018, Revision 3: Feb 2019, Revision 4: Nov 2019 Revision 5: May 2020 Revision 7: Jun 2021 Revision 8: Mar 2022 Revision 9: Nov 2022 Revision 10: Oct 2023 Revision 10, Corr. 1: Apr 2024 Revision 11: Oct 2024	A
	5.46 Power Burst Rate		
	5.47 Power Burst Width		
	5.48 Magnitude of Phase		
	5.49 Rise and/or Fall Time of Pulse Modulation	AS/NZS 4268:2017, limited to measurements <40 GHz AS/NZS 4771:2000 including Amendment 1 excluding clauses 5.1.2 and 7.2.9	A A
	5.50 Radiated Spurious Emissions	ANSI TIA-603-E AS/NZS 4583:2010 ARIB STD-T66 Version 3.7: Oct 2014 ARIB STD T-82 Version 1.1 Nov 2005 ARIB STD T-93 Version 1.1: Sep 2007 ARIB STD T-108 Version 1.5: Mar 2023 ICES-003 Issue 7: 2020, EN 302 326-2:V1.2.1:2007 TELEC Test Method of RFID (Only 13.56 MHz) September 19, 2002	A A A A A A A A



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As listed on Pages 35	5 RADIO TESTING (cont'd) 5.50 Radiated Spurious Emissions	3GPP TS 51.010-1 V13.11.0:2019, Clause 12.2.1 and 12.2.2 only (including bands 850 & 1900)	A
		EN 301 511:V12.5.1:2017 Clauses 4.2.16 & 4.2.17 Only	A, B
		3GPP TS 36.124 V11.3.0:2022 Clause 8.2 only (including Bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 41, 42, 43, 48, 66, 71, 85)	A
		3GPP TS 36.124 V12.2.0:2022 Clause 8.2 only (including bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 41, 42, 43, 48, 66, 71, 85)	A
		3GPP TS 36.124 V13.2.0:2022 Clause 8.2 only (including bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 41, 42, 43, 48, 66, 71, 85)	A
		3GPP TS 36.124 V16.1.0 2019 Clause 8.2 only (including bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 41, 42, 43, 48, 66, 71, 85)	A
		3GPP TS 34.124 V16.0.0:2020, Clause 8.2 only (including bands IV and V)	A A
		3GPP TS 36.124 V17.1.0:2022, Clause 8.2 only	
		3GPP TS 38.124 V15.8.0:2022, Clause 8.2 Only, Excluding FR2	A, G
		3GPP TS 38.124 V17.2.0:2022, Clause 8.2 only	A
		EN 303 340 V1.1.2:2016 EN 303 340 V1.2.1:2020	A, G A, G
		EN 303 345-1 V1.1.1:2019 excluding AM receivers with built in, integral or earphone antenna	A
		EN 303 345-2 V1.1.1:2020 Excluding AM receivers with built in integral or earphone antenna	A
		EN 303 345-3 V1.1.1:2021 EN 303 345-4 V1.1.1:2021 EN 303 372-2:V1.1.1:2016	A A A
		EN 303 413 V1.2.1:2021 EN 303 413 V1.2.1:2021 Clause 4.2.2 Only EN 303 417:V1.1.1:2017 ITU-R SM.329-12 (09/2012)	A, G B A A
5.51 Short Range Devices (SRD) in the 40 GHz to 220 GHz frequency range Power Spectral density RF output power Permitted range of operating frequencies Out-of-band emissions (OOB) Radiated spurious emissions (30 MHz to 220 GHz) Unwanted emissions (30 MHz to 220 GHz)	EN 305 550-1 V1.2.1:2014 EN 305 550-2 V1.2.1:2014 Draft EN 305 550 V2.1.0:2017, Measurements up to 220 GHz only	A, G A, G A, G	



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Equipment which falls within OTA system quiet zone, (50x50x50cm)	5 RADIO TESTING (cont'd)			
	5.52 OTA, (Over The Air), Total Radiated Power and Total Radiated Sensitivity			
	3G Cellular Devices	3G UMTS B1, B2, B4, B5, B8	ETSI EN 301 908-2 V13.1.1 (2020-06) TRS - Clauses 4.2.14 / 5.3.13 TRP – Clauses 4.2.15 / 5.3.14	G
	4G Cellular Devices	4G FDD LTE B1, B2, B3, B4, B5, B7, B8, B12, B17, B20, B26, B28, B32, B38, B40, B66	ETSI TS 125 914 V17.0.0 (2022-04) ETSI EN 301 908-13 V13.2.1 (2022-02) TRS – Clauses 4.2.13 / 5.3.12 TRP – Clauses 4.2.14 / 5.3.13	G G
	5G Cellular Devices	5G FDD Sub6 N1, N3, N5, N7, N8, N20, N28, N66	ETSI TS 137 544 V16.2.0 (2021-10) 3GPP TS 37.544 V16.2.0 (2021-09) 3GPP TR 38.834 V17.2.0 (2022-09) 3GPP TS 38.561 V0.0.1 (2022-09)	G G G G
		5G TDD Sub6 N34, N38, N40, N41, N77, N78		



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Electronic and Electrical Equipment with intentional Transmitters- intended to be used within less then 20 cm of the body or head.	6 SAR TESTS 6.1 Specific Absorption Rate Limited frequency ranges within 30MHz to 7125MHz	ARPANSA Radiation Protection Series No.3	A
		ARPANSA radiation Protection Series S-1 (Rev.1)	A, G
		ARPANSA Radiocommunications (Electromagnetic Radiation Human Exposure) Standard (ACA 2003), Sections 10 and 11	A
		AS/NZS 2772.2:2016 + A1:2018	A, G
		EN 50360:2017	A, G
		EN 50360:2017+A1:2023	A, G
		EN 50385:2002	A
		EN 50385:2017	A
		EN 50566:2013	A, G
		EN 50566:2017	A, G
		EN 50566:2017+A1:2023	A, G
		EN 50663:2017	A
		EN 50665:2017	A
		EN 62209-1:2006	A
		EN 62209-1:2016	A, G
		EN 62209-2:2010	A
		EN 62209-2:2010+A1:2019	A, G
		EN 62232:2017	A
		EN IEC 62311:2020	A, G
		EN 62369-1:2019	A
EN 62479:2010	A		
FCC 47 CFR Part 1.1310	A, G		
FCC 680106 D01 v03	A, G		
FCC KDB 447498 D01 v06	A, G		
FCC OET Bulletin 65	A, G		
IEC 62311:2019 (Ed 2.0), 0Hz to 300GHz	A		



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Information Technology Equipment -- Safety - Part 1: General requirements	7 SAFETY TESTS		
	7.1 Safety Tests Equipment with a rated voltage not exceeding: 600 V	AS/NZS 60950-1:2015 Excluding: 4.2.8, 4.3.12, 4.3.13, Annex U, Annex Y, Annex CC, Annex ZB 4.3.6, Annex ZX "WITHDRAWN" EN 60950-1:2006 + A11:2009 +A1:2010 + A12:2011 + A2:2013 "WITHDRAWN" IEC 60950-1:2005 + A1:2009 +A2:2013 "WITHDRAWN"	A, B, E A, B, E A, B, E
Audio/video, information and communication technology equipment - Part 1: Safety requirements	7.2 Safety Tests Equipment with a rated voltage not exceeding: 600 V	AS/NZS 62368-1:2018 Excluding clauses 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		AS/NZS 62368.1:2022 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, AnnexJ, Annex S*, Annex S.3, Annex U *excluded from B & E Only	A, B, E
		CSA C22.2 No. 62368-1:2014 Excluding.7.5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		CSA C22.2 No. 62368-1:2019, Update No1:2021 Excluding.4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN 62368-1:2014 Excluding clauses 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4 Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN 62368-1:2014 + A11: 2017 excluding clauses 4.7,5.4.1.10.2,5.4.2.3.2.5,5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN IEC 62368-1:2020 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN IEC 62368-1:2020 + A11:2020 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E



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	7 SAFETY TESTS (cont'd)		
	7.2 Safety Tests (cont'd)		
	Equipment with a rated voltage not exceeding: 600 V		
		EN IEC 62368-1:2024, Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex G.15 Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN IEC 62368-1:2024/A11:2024, Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex G.15 Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		EN IEC 62368-3:2020	A, B, E
		IEC 62368-1:2014, Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		IEC 62368-1:2018 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		IEC 62368-1:2023, Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		IEC 62368-3:2017	A, B, E
		UL 62368-1:2014 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.3, 10.5.3, 10.6.5.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E
		UL 62368-1:2019, R:2021-10 Excluding 4.7, 5.4.1.10.2, 5.4.2.3.2.5, 5.4.3.3, 5.4.4.6.5, 10.4.4, 10.5.3, 10.6.6.4, Annex C, Annex G.5.2, Annex G.7.1, Annex G.9, Annex G.13.6.2, Annex J, Annex S*, Annex S.3, Annex U *excluded from B & E only	A, B, E



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Information Technology Equipment - Safety - Part 22: Equipment to be installed outdoors	7 SAFETY TESTS (cont'd) 7.3 Safety Tests Equipment with a rated voltage not exceeding: 600 V	CSA C22.2 No. 60950-22:2017 Excluding 8.2, 8.3, 8.5.1, 9.3, 9.3.1, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
		EN 60950-22:2006, Excluding tests of 8.2, 8.3, 9.3, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
		EN 60950-22:2017 Excluding 8.2, 8.3, 9.3, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
		IEC 60950-22:2005, Excluding 8.2, 8.3, 9.3, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
		IEC 60950-22:2016, Excluding 8.2, 8.3, 9.3, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
		UL 60950-22:2017, Excluding 8.2, 8.3, 9.3, 11, Annex A, Annex B, Annex C, Annex D.2, Annex D.3, Annex D.4	A
Railway applications — Rolling stock — Electronic equipment	7.4 Safety Tests	EN 50155:2017 Clause 13.4.9 Only	A
		EN 50155:2021, Clause 13.4.7 Only	A



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Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements	7 SAFETY TESTS (cont'd)		
	7.5 Electrical, Mechanical, Flame	CSA-C22.2 No.61010-1-12 AMD 1:2018, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		CSA-C22.2 No.61010-1-12 Update No.3:2023, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		CSA-C22.2 No.61010-1-12 Update No.4:2024, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7* (*only excluded from B & E)	A, B, E
		EN 61010-1:2010 / A1:2019, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		IEC /EN 61010-1:2010, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		IEC 61010-1:2010 + AMD1:2016, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		UL 61010-1:2012, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
		UL 61010-1:2012 Rev 2023, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E
	UL 61010-1:2012 R:2024, excluding clauses 6.7.1.3, test of 9.3.2*, 10.5.3 b) 2), 12.2.1,12.3, 12.5.1, 12.5.2, 12.6, 13.2.3 and test of 14.7*. (*only excluded from B & E)	A, B, E	



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Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	7 SAFETY TESTS (cont'd) 7.6 Electrical, Mechanical,	CSA C22.2 No. 61010-2-010:2019, excluding clause 11.2 EN 61010-2-010:2014 excluding clause 11.2 EN IEC 61010-2-010:2020 excluding clause 11.2 IEC 61010-2-010:2014 excluding clause 11.2 IEC 61010-2-010:2019 excluding clause 11.2 UL 61010-2-010:2019 excluding clause 11.2 CSA C22.2 No. 61010-2-051:2019 EN IEC 61010-2-051:2021+A1:2021 IEC 61010-2-051:2015 IEC 61010-2-051:2018 UL 61010-2-051:2019	A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E
	7.7 Electrical, Mechanical,	CSA C22.2 No. 61010-2-081:2019 EN IEC 61010-2-081:2020 EN 61010-2-081:2015 IEC 61010-2-081:2015 IEC 61010-2-081:2019 UL 61010-2-081:2019 UL 61010-2-051:2019 R:2023-09	A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E
	7.8 Electrical, Mechanical,	CSA C22.2 No. 61010-2-101:2019 EN 61010-2-101:2017 EN IEC 61010-2-101:2022/A11:2022 IEC 61010-2-101:2015 IEC 61010-2-101:2018 UL 61010-2-101:2019 UL 61010-2-101:2019/R:2023-12	A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E A, B, E
Temperature recorders for the transport, storage and distribution of temperature sensitive goods. Tests, performance, suitability	7.9 Electrical, Mechanical, Flame	EN 12830:2018 Clauses 5.8, 6.6.8 & 6.6.9	A, B



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Household and similar electrical appliances- - Safety - Part 1: General requirements	7 SAFETY TESTS (cont'd) 7.10 Electrical Safety	CSA C22.2 60335-1:2016 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J, Annex R & Annex T	A, E
		EN 60335-1:2012+A1:2019 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, Annex T,	A, B, E
		EN 60335-1:2012+A2:2019 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012+A11:2014, excluding clauses 22.7, 22.32, 29.2, Annex F, Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012+A12:2017 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012+A13:2017 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012+A14:2019 excluding clauses 22.7,22.32,29.2,(CTI/PTI), Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012+A15:2021 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, Annex T	A, B, E
		EN 60335-1:2012/A16:2023 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J & Annex R, & Annex T	A, E
		IEC 60335-1:2010+AMD2:2016, COR1:2016 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J, Annex R & Annex T, IEC 60335-1:2020 excluding clauses 22.7, 22.32, 24.1.10, 29.2 (CTI/PTI), 32.2, Annex B.20.1, B.20.2, B.24.1.3, B.24.1, Annex F, Annex J, Annex R, Annex T, Annex U	A, , E A, E
UL 60335-1:2016 excluding clauses 22.7, 22.32, 29.2 (CTI/PTI), Annex F, Annex J, Annex R & Annex T,	A, , E		
Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers	7.11 Electrical, Mechanical, Flame	CSA C22.2 No. 60335-2-29:2020, Update No1:2023 EN 60335-2-29:2004+A2:2010 EN IEC 60335-2-29:2021+A1:2021 IEC 60335-2-29:2016 UL 60335-2-29:2020, R:2023	A, , E A, , E A, , E A, , E A, , E
Household and similar electrical appliances - Safety Part 2-41: Particular requirements for pumps	7.13 Electrical, Mechanical, Flame	EN 60335-2-41:2003+A2:2010 EN IEC 60335-2-41:2021+A11:2021 IEC 60335-2-41:2012	A, , E A, , E A, , E
Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	7.14 Electrical, Mechanical, Flame	EN 60335-2-80:2003+A2:2009 IEC 60335-2-80:2015	A, , E A, , E



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Safety requirements for electrical equipment for measurement, control, and laboratory use –	7 SAFETY TESTS (cont'd) 7.15 Electrical, Mechanical,	CSA C22.2 No.61010-2-201:2018 EN IEC 61010-2-201:2018 IEC 61010-2-201:2017 UL 61010-2-201:2018, R2022	A, B, E A, B, E A, B, E A, B, E
	7.16 Electrical, Mechanical	EN 60529:1992+A2:2013, Clauses 5.2, 13.2 & 13.3, IP3X & IP4X only IEC 61010-2-201:2024 IEC 60529:1989 inc Amd 2:2013, Clauses 5.2, 13.2 & 13.3, IP3X & IP4X only	A, B, E A, B, E A, B, E A, B, E
Degrees of protection provided by enclosures (IP code)			
Any location where the test defined in Column 2 and to the specifications given in Column 3 can be carried out, but subject to the limitations given in <i>Note 1</i> on Page 58	8 EMC TESTS 8.1 Conducted Emissions DC to 400 MHz	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field	E
		BS2G100:Part 2:Section 2:1967 and Amendment 1	E
		BS2G100:Part 2:Section 2:1972 except Compass: Safe Distance BS 1597:1985	
Military Establishment Ships		EN 55011:2016 + A1:2017 EN 55011:2016+A11:2020 EN 55014-1:2017+A11:2020 excluding the use of EN 61000-4-20, EN 61000-4-22 and Table 4 EN 55014-1:2006 + A2:2011 excluding use of EN 55015, EN 61000-4-20 method and Table B.3	E
Manufacturing Sites Construction Sites Offices		EN 61326-1:2013 MP-5 1986 IEC 533:1991	
PRODUCTS TESTED Electrical/electronic products Electrical installations Enclosures for electrical Equipment		DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 Except Clause 9.10, 9.11, 9.13, 9.18 and 9.19 DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5)	



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As listed on Pages 23 & 24	<p>8 EMC TESTS (cont'd)</p> <p>8.2 Radiated Emissions (cont'd) E Field: 20 Hz to 26 GHz</p>	<p>EN 55022:1994 including Amendment 1:1995, Amendment 2:1997 EN 55022: 1998* including Amendment 1:2000 Amendment 2:20003 and Corrigenda 1 and 2 *includes signal lines where standard ISNs and CDNs can be used EN 55022: 2010 inc Corrigendum 2011 MP-5 1986</p> <p>DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5 Part 3 DEF STAN 59-411 Part 3 Issue 3:2019 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5) DG Ships 250B:1981</p> <p>RTCA DO160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E, F, G, excluding RS 105, limitations to CS115 TUV Procedure EMC TPIS-004 Eurocae ED-14G 2011 Inc Change 1 2015, Sections 15 to 25 excluding Section 20.6, 21.6, 23 and 24 but including In-House Method EMC-TP-061 CISPR 11, ed 6:2015 CISPR 11, ed 6.1:2016 CISPR 14-1: 2005 +A1: 2008 excluding use of EN 55015 & EN 61000-4-20 method J55014-1 (H27) excluding use of CISPR15 & IEC 61000-4-20 method</p>	E



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As listed on Pages 23 & 24	8 EMC TESTS (cont'd) 8.3 Radiated Emissions H Field: 20 Hz to 30 MHz	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5) DG Ships 250B:1981 MIL STD 461A, B, C, D, E, F, G, excluding RS 105, limitations to CS115 RTCA DO160B, C, D, E, G TÜV Procedure EMC TPIS-004 Eurocae ED-14G 2011 Inc Change 1 2015, Sections 15 to 25 excluding Section 20.6, 21.6, 23 and 24 but including In-House Method EMC-TP-061 DEF STAN 59-411 Part 3 Issue 3:2019	E
	8.4 Conducted Susceptibility Power Control and Signal Lines DC to 600 MHz Bulk Current Injection CW: 50 kHz to 400 MHz Pulsed: 500 kHz to 50 MHz	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field BS2G100:Part 2:Section 2:1967 and Amendment 1 BS2G100:Part 2:Section 2:1972 except Compass: Safe Distance EN 61000-4-6:1996 including Amendment 1 EN 61000-4-6:2007 including Corrigendum 1:2007 EN 61000-4-6:2014 IEC 61000-4-6:ed 2:2003 including Amendment 1:2004 and Amendment 2:2006 IEC 61000-4-6:ed2.1:2004 IEC 61000-4-6:ed2.2:2006	E E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
As listed on Pages 23 & 24	8 EMC TESTS (cont'd) 8.6 Radiated Immunity Electric Field (See Note 1)	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5: Part 3 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5) DG Ships 250B:1981 RTCA DO160A, B, C, D, E, G MIL STD 461A, B, C, D, E, F, G, excluding RS 105, limitations to CS115 EN 61000-4-6:1996 including Amendment 1: 2001 Eurocae ED-14G 2011 Inc Change 1 2015, Sections 15 to 25 excluding Section 20.6, 21.6, 23 and 24 but including In-House Method EMC-TP-061 DEF STAN 59-411 Part 3 Issue 3:2019	E
	8.7 Radiated Immunity Magnetic Field	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field DEF STAN 59-41 (Part 3): Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4 Parts 3 and 4 DEF STAN 59-41:Issue 5:Part 3 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5) DG Ships 250B:1981 RTCA DO 160A, B, C, D, E, G TS 1527:Issue 2 MIL STD 461A, B, C, D, E, F, G, excluding RS 105, limitations to CS115 DEF STAN 59-411 Part 3 Issue 3:2019 Eurocae ED-14G 2011 Inc Change 1 2015, Sections 15 to 25 excluding Section 20.6, 21.6, 23 and 24 but including In-House Method EMC-TP-061	



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As listed on Pages 23 & 24	8 EMC TESTS (cont'd) 8.8 ESD	AECTP-500 Edition E Version 1:2016, Excluding NRS03 – Radiated Susceptibility, Transient Electromagnetic Field IEC 60801-2:1991 DEF STAN 59-41 (Part 3) Issue 1, Section 3:2003 DEF STAN 59-41:Issue 4: Parts 3 and 4 DEF STAN 59-41:Issue 5:Part 3 DEF STAN 59-411 Issue 2: 2014 (excluding Part 5) DEF STAN 59-411 Part 3 Issue 3:2019 DG Ships 250B:1981 MIL STD 461A, B, C, D, E, F, G, exclusions to RS 105, limitations to CS115	E
	8.9 Voltage Dips, Interruptions and Variations	EN 61000-4-11:1994 plus Amendment 1:2001 IEC 61000-4-11:1994 EN IEC 61000-4-11:2020 Single phase supply <=16A Only EN 61000-4-29:2001	E E



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As listed on Pages 23 & 24	<p>8 EMC TESTS (cont'd)</p> <p>8.10 Generic EMC Standards</p> <p>These generic and similar standards are included in this Schedule, but limited to those referenced basic standards that are listed in Sections 8.1 to 8.9 of the Schedule.</p>	<p>IEC 60601-1-2:2014 A1:2020 IEC 60601-1-2:ed 3:2007 EN 60601-1-2:2007 inc Corrigendum 2010 IEC 60601-1-2:ed 4:2014 EN 60601-1-2:2015 EN 60601-1-2:2015+A1:2021 BS EN 60601-1-2:2015+A1:2021 EN 61000-6-1:2001 EN 61000-6-2:2001 EN 61000-6-2:2005 AS/NZS 61000.6.2:2006</p> <p>IEC 61000-6-2:ed2:2005 EN 61000-6-3:2001 EN IEC 61000-3-2:2019 EN IEC 61000-3-2:2019+A1:2021 IEC 61000-3-2:2018 EN 61000-3-3:2013+A1:2019 EN 61000-3-3:2013+A2:2021 EN 61000-4-2 :2009 EN 61000-4-4 :2012 EM61000-4-5 :2006 EN 61000-4-6 :2009 EN 61000-4-8 :2010 EN 61000-4-11 :2004 A1 :2017 EN 61000-6-1:2019 IEC 61000-6-1:2019 EN 61000-6-4:2001 EN 61000-6-4:2007 + A1 2011 AS/NZS 61000.6.4:2012 prEN 50093 (Draft) EN 50121-1:2000</p> <p>EN50121-3-1:1996 EN 50121-3-1:2000 EN 50121-3-1:2006 EN 50121-3-1:2015 EN 50121-3-1:2017 ENV 50121-3-2:1996 EN 50121-3-2:2000 EN 50121-3-2:2015, excluding Table 1 row 1.2 EN 50121-3-2:2016 + A1:2019, excluding Table 1 row 1.2 EN 50121-3-2:2016, excluding Table 1 row 1.2 ENV 50121-4:1996 EN 50121-4:2000 EN 50121-5:2017+A1:2019, excluding Section 6, Table 3, 3.2 EN 50121-1:2017 EN 50121-2:2017 EN 55014-2:2015 EN 55032:2015 EN 55011:2016+A2:2021 EN 55011:2016+A11:2020 EN 55032:2015+A1:2020 EN 55035:2017 Excluding clauses 2.2 & 2.3 EN 55035:2017 + A11:2020 Excluding clauses 2.2 & 2.3</p>	<p>E</p> <p>E</p> <p>E</p>



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As listed on Pages 23 & 24	<p>8 EMC TESTS (cont'd)</p> <p>8.10 Generic EMC Standards (cont'd)</p> <p>These generic and similar standards are included in this Schedule, but limited to those referenced basic standards that are listed in Sections 8.1 to 8.9 of the Schedule.</p>	<p>CISPR 32: 2015 CISPR 32:2015 + A1:2019 CISPR 35:2016 Excludes Table 2 clauses 2.2 & 2.3 EN61000-3-3: 2013 EN 61000-6-3:2007 + A1 2011, Limited to 16A for harmonics and flicker EN IEC 61000-6-3:2021, Table 4, 4.1 and 4.2 - Single phase products drawing < 16 Amps Only. IEC 61000-6-3:2020, Table 4, 4.1 and 4.2 - Single phase products drawing < 16 Amps Only. EN 50121-4:2006 EN 50121-4:2016 EN 50121-4:2016 + A1:2019 ENV 50121-5:1996 EN 50121-5:2000 EN 12895:2000</p> <p>IEC 61326-2-1:2012 EN 61326-2-1: 2013, Limited to 16A for harmonics & flicker EN IEC 61326-1:2021 Lloyd's Register LR1:2002 Lloyd's Register Type Approval System - Test Specification Number 1:2019 - Clauses 8, 9, 22, 23, 24, 25, 26, 27, 29 and 30 RTCM 11000.3 2012, excluding Annex A, Paragraph 1 only RTCM 11000.4 + A1: 2016, Annex A Paragraph 1 only EN 301 489-4: V1.3.1:2002 ANSI/AAMI/IEC 60601-1-2:2014</p> <p>IEC 61097-2:2008 Clauses 5.18, 5.20 & 5.21 Only EN 61000-6-2:2019 IEC 61000-6-2:2016, voltage dips & interruptions – single phase <16A only EN 300 386:V1.3.3:2005 EN 300 386 v1.6.1.2012 Excluding Harmonics & Flicker measurements above 16 Amps EN 301 843-1:V1.3.1:2012 EN 301 843-1:V2.2.1:2017</p> <p>Draft EN 301 489-1:V2.1.0:2016 Final Draft EN 301 489-1:V2.1.1:2016 EN 301 489-1 V2.2.3:2019 EN 301 489-3:V1.6.1-2013</p>	E



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As listed on Pages 23 & 24	<p>8 EMC TESTS (cont'd)</p> <p>8.10 Generic EMC Standards (cont'd)</p> <p>These generic and similar standards are included in this Schedule, but limited to those referenced basic standards that are listed in Sections 8.1 to 8.9 of the Schedule.</p>	<p>EN 301 489-17:V2.1.1:2009 EN 301 489-17:V2.2.1:2012 Draft EN 301 489-17:V3.1.0:2016 Final Draft EN 301 489-17:V3.1.1:2016 EN 301 489-17:V3.1.1:2017 Draft EN 301 489-17:V3.2.0:2017 Draft EN 301 489-20:V2.1.0:2017 EN 301 489-20 V2.1.1:2019 EN 301 489-23:V1.2.1:2002 EN 301 489-50:V1.2.1:2013 Draft EN 301 489-50:V2.1.0:2016 AS/NZS 4280.1: 2003 including amendments 1, 2, 3 and 4 Draft EN 301 489-50:V2.2.0:2017 EN 301 489-51 V2.1.1:2019 Draft EN 301 489-54 V0.0.5:2020 Boeing D6-16050-4 Rev F EN 55103-1:2009 + A1:2012 3GPP TS 25.113: V11.1.0:2015 3GPP TS 37.113:V11.1.0:2012 GR-1089-CORE Issue 3: 2002 ICES-003 Issue 7: 2020 CISPR 22, ed 5.2:2006 CAN/CSA C22.2 No.60601-1-2:2016</p>	<p>E</p> <p>E</p> <p>E</p>

Note 1:
No Radiated Susceptibility testing shall be undertaken for any commercial or military specification where this would contravene the Wireless Telegraphy Act or other local regulations. This also applies to Conducted Susceptibility tests, where the combination of the level of injection and the length of cables is likely to result in contravention of the Act.



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<p>Manufacturers' Sites</p> <p>Products Tested: Radio Transmitters Cellular Base Stations Aeronautical Transmitting Equipment Marine Navigation Systems</p>	<p>9 RADIO TESTS</p> <p>Transmission Modulation Phase Error Mean Frequency Error Transmitter Power Transmitter Power/Time Characteristics Adjacent Channel Power Switching Transient Spectrum Transmitter Spurious Emissions Intermodulation Attenuation</p> <p>Static Reference Sensitivity, Blocking Receiver Spurious Response, Rejection Spurious Emissions Receiver Duplex Operation</p>	<p>EN 300 328 V2.2.2:2019</p> <p>EN 300 338-1:V1.4.1:2017, excluding sound pressure level testing</p> <p>EN 300 338-2:V1.4.1:2017, excluding sound pressure level testing EN 300 338-3:V1.2.1:2017, excluding sound pressure level testing EN 300 338-5:V1.2.1:2017, excluding sound pressure level testing</p> <p>EN 300 373-1:V1.4.1:2013 EN 300 373-2:V1.2.1:2009 EN 300 373-3:V1.2.1:2009</p> <p>EN 300 440 V2.2.1:2018 Excluding >20 GHz fundamental frequency</p> <p>EN 301 033:V1.4.1:2013</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p>



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TUV SUD Limited (Trading as TÜV SÜD)
Issue No: 223 Issue date: 05 March 2026

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
As listed on Page 58	9 RADIO TESTS (cont'd)	EN 301 893:V2.1.1:2017	E
		EN 301 893 V2.2.1:2024	
		EN 301 908-3 V13.1.1:2019	
		EN 301 908-15 V11.1.2:2017	
		EN 301 908-15 V15.1.1:2020	E
		EN 301 908-18 V15.1.1:2021	
		EN 301 908-11 V11.1.2:2017	
		EN 302 502:V2.1.1:2017	
		ANSI C63.26:2015, excluding radiated emissions >40 GHz	
		IEC 60945:2002 inc. Corrigendum 1: 2008, Clauses 5.2.3, 7.1, 7.2, 8.2, 8.3, 8.4, 8.6, 8.7 and 8.8	
		C-IS2035-0:2002 and 2007	
		ICES-003, Issue 7: 2020	
		EN 303 413:V1.1.1:2017	
		EN 301 502:V12.5.2:2017	
		EN 301 908-14 V13.1.1:2019	E
		EN 301 908-14 V15.1.1:2021	
		Draft EN 301 908-24 V15.0.0:2022	E
		EN 301 908-24 V15.1.1:2023	E
		Draft EN 301 908-23 V15.1.1 0.0.15:2022	E
		EN 301 908-23 V15.1.1:2023	E
		Draft EN 301 908-23 V15.0.0:2022	E
		Draft EN 301 908-24 V15.1.1 0.0.5:2020	E
		EN 302 217-2-2:V2.2.1:2014, clauses 5.2.1, 5.2.4, 5.2.5, 5.2.7, 5.2.8 & 5.3.2	E
		EN 303 609 V12.5.1:2016	E
		3GPP TS 25.141 V16.0.0:2018	E
		3GPP TS 25.141 V17.0.0:2022	E
		3GPP TS 25.143 V17.0.0:2022	E
		3GPP TS 36.141 V16.9.0:2021	E
		3GPP TS 36.141 V18.2.0:2023	E
		3GPP TS 36.143 V17.0.0:2022	E
		3GPP TS 37.141 V16.9.0:2021	E
		3GPP TS 37.141 V18.2.0:2023	E
		3GPP TS 37.141 V18.5.0:2024	E
3GPP TS 37.141 V18.6.0:2024	E		
3GPP TS 37.145-1 V16.6.0:2021	E		
3GPP TS 37.145-1 V18.2.0:2023	E		
3GPP TS 37.145-2 V16.7.0:2021	E		
3GPP TS 37.145-2 V18.2.0:2023	E		
3GPP TS 38.141-1 V16.7.0:2021	E		
3GPP TS 38.141-2 V16.7.0:2021	E		
3GPP TS 38.141-1 V18.2.0:2023	E		
3GPP TS 38.141-1 V18.9.0:2025	E		
3GPP TS 38.141-2 V18.2.0:2023	E		
3GPP TS 38.115-1 V17.2.0:2023	E		
3GPP TS 51.021 V16.0.0:2020	E		
3GPP TS 51.026 V12.0.0:2014			
ICES-003 Issue 7: 2020	E		



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Licensed Low-Power Radio Apparatus	9 RADIO TESTS (cont'd) Conducted and Radiated Tests 9 kHz to 40 GHz		
Land Mobile and Fixed Radio Transmitters and Receivers 1.705 to 50.0 MHz, Primarily Amplitude Modulated	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-125 Issue 2, Revision 1, March 2000	A
Wireless Power Transfer Devices	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-216 Issue 2, January 2016 Amendment 1 (September 2020)	A, G
White Space Devices (WSDs)	Conducted and Radiated Tests 9 kHz to 40 GHz		
General Radio Service Equipment Operating in the Band 26.960 to 27.410 MHz (Citizens Band)	Conducted and Radiated Tests 9 kHz to 40 GHz		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Marine Equipment	10 TESTS ON MARINE EQUIPMENT	IEC 60945:2002 inc. Corrigendum 1: 2008, Clauses 5.2.3, 7.1, 7.2, 8.2, 8.3, 8.4, 8.6, 8.7 and 8.8	E
		ISO 9875:2000 Accreditation for these specifications only applies when testing is performed at UKAS approved site	E
		IEC 62287-1:2017 EN 62287-1:2017	A A
		IEC 62287-2:2017 EN 62287-2:2017	A A
		IEC 61993-2:2018 EN 61097-14:2010	A A
		EN 62320-1:2015 IEC 62320-1:2015	A
		IEC 62320-2:2016 EN 62320-2:2017 EN 62320-3:2015 IEC 62320-3:2015	A
		EN/IEC 62388:2013 inc. Corrigendum 1:2014, Excluding clauses 6.2 (direct method) to 6.11, clauses 15.5.2, 15.8 and Annex B	A
		EN/IEC 62388:2013, inc. Corrigendum 1:2014, Excluding clauses 15.8.3, 6.2.1.2, 15.5,2 and Annex B using the direct method	E
		CCNR Ed 2.0:2012	A
		IEC 61162-1:2016 EN 61162-1:2016 IEC 61162-2:1998 EN 61162-2:1999	A A A A
		EN 61174: 2015 IEC 61174:2015	
		EN/IEC 61162-450:2018 IEC 62238, Ed 1:2003 IEC 61097-12:1996 + Amd 1:2017 IEC 61097-12:1996 + Amd 2:2023 IEC 61097-2:2008, Clause 5, Annex B & D BS IEC 61097-2:2021, Clauses 4.3.4.4, 6.3.4.1, 6.14.1, 6.19, A.1.11, A.1.15 Annex B, Annex D and Annex E	A A, E A A A A A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Marine Equipment (cont'd)	10 TESTS ON MARINE EQUIPMENT (cont'd)	IEC 61108-1:2003 clause 5.6 excluding clauses 5.6.4.1.2, 5.6.4.3.2, 5.6.11, and 5.6.12	A
		EN 61108-3:2010, Excluding clauses 5.6.4.2.3, 5.6.4.4.2, 5.6.11, , 5.6.12, 5.6.12.1.4	A
		EN 303 135:V2.1.1:2016	
		EN 303 098:V2.1.1:2016	
		EN 303 098 V2.2.1:2019, Clause 4 –General Requirements and Clause 9 –VDL Link Layer Tests Only	A A
		EN 302 248 V2.1.1:2016, Clauses 6.6 to 6.9 only	
		RTCM 11010.2 June 2012	
		RTCM 11010.2 June 2014	
		RTCM 11010.2 July 2016	
		RTCM 11010.2 (RTCM Paper 189-2010/SC110-STD clauses A12, A14, A16 & A20	A
		RTCM 11000.4:2016, including Amendment 1	
		RTCM 11000.5:2021, With Amendment 1 2022, Excluding Second Generation Beacons	
		RTCM 11901.1:2012, including Amendment 1:2014 & Amendment 2:2015	
		RTCM 11010.3 June:2018, Clauses A.12, A13, A,16, A,20, Annex D and Annex G	
		EN 302 248 V2.1.1:2016 Clauses 6.2 to 6.5 conducted methods only	
EN 302 194-1:V1.1.2:2006, Clauses 7.9.2, 7.9.3 only	A		
NSS PLB06 clauses 4.1, 4.2, 4.3, 4.5 and 4.6			
AS/NZS 4280.1:2017 including Amendment 1, Clause 5, Annex B and D	A		
AS/NZS 4280.1:2022	A		
AS/NZS 4280.2:2017	A		
AS/NZS 4280.2:2023	A		
AS/NZS 4415.1:2003, including Amendment 1:2004, excluding clause 5.5.14	A		
AS/NZS 4415.2:2003, including Amendment 1, excluding clauses 5.1, 5.3 and 5.5	A		
EN/IEC 62923-1:2018	A, E		
EN/IEC 62923-2:2018	A, E		
	Navigational displays Screen arrangement, readability, colour, symbols, chart and RADAR presentation and brightness	IEC 62288:2014 (Excluding clause 7.2.3 Temporal stability) BS EN IEC 62288:2022, Excluding clause 7.2.3 Temporal stability	A, E A, E
END			



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DETAIL OF ACCREDITATION - FCC

Note: TÜV SÜD Product Service's Flexible scope does not apply to the following activities.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNINTENTIONAL RADIATORS FCC Part 15, subpart B	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz	ANSI C63.4-2014 ANSI C63.4a:2017	A, B, G
INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT Consumer ISM Equipment FCC Part 18	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz	FCC MP-5 (February 1986),	A, B
INTENTIONAL RADIATORS FCC Part 15, subpart C	Radiated Tests 9 kHz to 220 GHz Conducted Tests 9 kHz to 220 GHz Radio tests as per standard. Includes but not limited to: Peak transmit power Emission bandwidth / Occupied BW Modulation Power spectral density Band edge tests Permitted Frequency range In-band unwanted emissions Out-of-band emissions Spurious Emissions Reaction time Frequency and Time Stability	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024	A, B, G
UNLICENSED PERSONAL COMMUNICATION SYSTEMS DEVICES. FCC Part 15, Subpart D	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI C63.17-2013	A
UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES WITHOUT DFS (INTENTIONAL RADIATORS) FCC Part 15, Subpart E	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024 KDB Publication 789033	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNLICENSED NATIONAL INFRASTRUCTURE (U-NII) DEVICES WITH DYNAMIC FREQUENCY SELECTION (DFS) FCC Part 15 Subpart E	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard. DFS tests per new rules.	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024 FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02 (April 8, 2016)	A, G
ULTRA-WIDEBAND OPERATION INTENTIONAL RADIATORS FCC Part 15, Subpart F	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024	A
ACCESS BROADBAND OVER POWER LINE (ACCESS BPL) FCC Part 15, Subpart G	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024	A
WHITE SPACE DEVICE INTENTIONAL RADIATORS FCC Part 15, Subpart H	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI C63.10-2013 ANSI C63.10-2020 ANSI C63.10a-2024	A
COMMERCIAL MOBILE SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 22 (cellular) FCC Part 24 FCC Part 25 (non-microwave) FCC Part 27	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015 KDB Publication 971168	A
GENERAL MOBILE RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 22 (non-cellular) FCC Part 90 (non-microwave) FCC Part 95 FCC Part 97 FCC Part 101 (non-microwave)	Radiated Tests 9 kHz to 220 GHz Conducted Tests 9 kHz to 220 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015	A



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CITIZENS BROADBAND RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 96	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015 KDB Publication 971168 & 940660	A
MARITIME AND AVIATION RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 80 FCC Part 87	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015	A
MICROWAVE AND MILLIMETRE BANDS RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 25 FCC Part 74 FCC Part 90 (90Y, 90Z, DSRC) FCC Part 101	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015 KDB Publication 653005	A
BROADCAST RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 73 FCC Part 74 (non-microwave)	Radiated Tests 9 kHz to 40 GHz Conducted Tests 9 kHz to 40 GHz Radio tests as per standard.	ANSI/TIA-603-E:2016 ANSI C63.26:2015	A
RF EXPOSURE Devices subject to SAR Requirements	Specific Absorption Rate 30MHz to 7125MHz Using the DASY 6 systems 5925 to 7125 MHz	IEEE Std 1528™-2013 KDB Publication 865664 KDB Publication 447498 CFR 47 Part 2.1093 (Absorbed Power Density)	A, G A, G



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SIGNAL BOOSTERS Wideband Consumer signal boosters Provider-specific signal boosters Industrial signal boosters FCC Part 20 FCC Part 90.2019	Tests as per KDB Frequency Bands Self-monitoring Noise Limits, Power Limits Bidirectional Capability Booster Gain Limits, Gain Control Transmit Power Off Mode Out of Band Emission Limits Intermodulation Limits Booster Antenna Kitting Uplink Inactivity Anti-Oscillation Occupied bandwidth Spurious emissions	FCC KDB Publication 935210 D03 Signal Booster Measurements (v04 r04) FCC KDB Publication 935210 D04 Provider Specific Booster Measurements (v02r04) FCC KDB Publication 935210 D05 Indus Booster Basic Measurements (v01r04)	A

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Canadian MRA - ISED Scope of Accreditation

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
General Requirements for Compliance of Radio Apparatus	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-Gen Issue 5: April 2018 + Amd 2 February 2021 ANSI C63.4:2014 ANSI C63.4a :2017 ANSI C63.10:2013 ANSI C63.10:2020 ANSI C63.10a-2024 ANSI C63.17:2013 ANSI C63.26:2015	A, B, G A, B, G A, B, G A, B, G A, B A, B A, B A, B
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure Evaluation (Measurement) 3 kHz to 300 GHz	RSS-102 Issue 6, December 2023	A, G
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	SAR Evaluation (Measurement) 4 MHz – 7125 GHz	RSS-102 Issue 6, December 2023 RSS-102.SAR.MEAS Issue 2, August 2025 IEC/IEEE 62209-1528: 2020	A, G
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure (Measurement) Nerve Stimulation 3 kHz – 10 MHz	RSS-102 Issue 6, December 2023 RSS-102.NS.MEAS Issue 1, 15 December 2023	A
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus	RF Exposure (Measurement) Incident Power Density 6 GHz – 300 GHz	RSS-102 Issue 6, December 2023 RSS-102.IPD.MEAS Issue 2, September 2025	A, G
Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-111 Issue 5, September 2014	A
Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-112 Issue 1, February 2008	A
Land and Coast Station Transmitters Operating in the Band 200-535 kHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-117 Issue 3, January 2016, Amendment 1 - June 2021	A
Land Mobile and Fixed Equipment Operating in the Frequency Range 7.41-960 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-119 Issue 12, May 2015	A
Air-Ground Equipment Operating in the Bands 849-851 MHz and 894-896 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-127 Issue 1, August 2009	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-130 Issue 2, February 2019	A
Zone Enhancers	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-131 Issue 4, December 2022	A
Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-132 Issue 4, Updated January 2023	A
2 GHz Personal Communications Services	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-133 Issue 7, July 2024	A
Digital Scanner Receivers	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-135 Issue 2, June 2009	A
Location and Monitoring Service in the Band 902-928 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-137 Issue 2, February 2009	A
Advanced Wireless Services Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-139 Issue 4 September 2022	A
Equipment Operating in the Public Safety Broadband Frequency Bands 758 768 MHz and 788 798 MHz	Conducted and Radiated Tests 30 MHz to 10 GHz	RSS-140 Issue 1, April 2018	A
Aeronautical Radiocommunication Equipment in the Frequency Band 117.975-137 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-141 Issue 2, June 2010	A
Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-142 Issue 5, April 2013	A
Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-170 Issue 4, September 2022	A



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Canadian MRA - ISED Scope of Accreditation

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Coast and Ship Station Single Sideband Radiotelephone Transmitters and Receivers Operating in the 1 605-28 000 kHz Band	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-181 Issue 2, August 2019	A
Maritime Radio Transmitters and Receivers in the Band 156-162.5 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-182 Issue 6, June 2021	A
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	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-191 Issue 3, April 2008	A
Flexible Use Broadband Equipment Operating in the Band 3450-3900 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-192 Issue 5, July 2023	A
Fixed Wireless Access Equipment Operating in the Band 953-960 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-194 Issue 1, October 2007	A
Wireless Communications Service Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-195 Issue 2, April 2014	A
Point-to-Multipoint Broadband Equipment Operating in the Band 512-608 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 36)	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-196 Issue 2, February 2019	A
Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-197 Issue 1, February 2010	A
Flexible Use Broadband Equipment operating in the band 3900-3980 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-198 Issue 1, August 2023	A



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Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-199 Issue 4, 20 th July 2023	A
Licence-Exempt Radio Apparatus: Category I Equipment	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-210 Issue 11, June 2024 -	A
Level Probing Radar Equipment	Conducted and Radiated Tests 9 kHz to 200 GHz	RSS-211 Issue 1, March 2015	A
2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-213 Issue 3, March 2015	A
Analogue Scanner Receivers	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-215 Issue 2, June 2009	A
Ultra-Wideband (UWB) Technology	Conducted and Radiated Tests 9 kHz to 100 GHz	RSS-220 Issue 1, March 2009 (Amendment July 2018)	A
Shipborne Radar in the 2900-3100 MHz and 9225-9500 MHz Bands	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-238 Issue 1, July 2013	A
Active Medical Implants Operating in the 401-406 MHz Band	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-243 Issue 3, February 2010	A
Medical Devices Operating in the Band 413-457 MHz	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-244 Issue 1, June 2013	A
Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-247 Issue 4, July 2025	A, B, G
Radio Local Area Network (RLAN) Devices in the 5925-7125 MHz Band	Technical and operational requirements (section 4) Conducted and Radiated Tests 9 kHz to 40 GHz	RSS-248 Issue 3, October 2024,	A, G
Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)	Conducted and Radiated Tests 9 kHz to 162 GHz	RSS-251 Issue 2, July 2018	A



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Canadian MRA - ISED Scope of Accreditation

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)	Conducted and Radiated Tests 9 kHz to 110 GHz	RSS-287 Issue 3, April 2024	A
Global Maritime Distress and Safety System (GMDSS)	Conducted and Radiated Tests 9 kHz to 110 GHz	RSS-288 Issue 1, January 2012	A
Licence-Exempt Radio Apparatus: Category II Equipment	Conducted and Radiated Tests 9 kHz to 110 GHz	RSS-310 Issue 5, January 2020	A
Information Technology Equipment and Digital Apparatus	Conducted and Radiated Tests 9 kHz to 18 GHz	ICES-003 Issue 7:2020	A, B, E
END			