

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|--|--|--|
|  5772 Accredited to ISO/IEC 17025:2017 | UL International (UK) Ltd Issue No: 033 Issue date: 5 November 2021 | |
| | Unit 1 - 3 Horizon Kingsland Business Park Wade Road Basingstoke Hampshire RG24 8AH | Contact: Mr. Neil Friggi Tel: +44 (0)1256 312100 Fax: +44 (0)1256 312001 Email: Neil.Friggi@ul.com Website: www.ul-europe.com |
| Testing performed by the Organisation at the locations specified | | |

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO/IEC17025:2017 and GEN 4:2019 for testing activities in accordance with the standards listed in the schedule for EMC, Radio, SAR and CRS and BLST (TF site only) – internal procedure 27-QA-S0854 This may also 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.



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Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|--|--|---------------|
| Address: UL International (UK) Ltd. Unit 8 Clarendon Court Winwick Quay Warrington WA2 8QP | Building Hardware Testing | WQ |
| Address: Am Oberfeld 19 83026 Rosenheim Germany | Fire Testing | RH |
| Address Plot 4 Halesfield 2 Telford Shropshire TF7 4QH | Building Hardware Testing Curtain walling Doors Glazing Rainscreens Windows | TF |
| Address Unit 1 - 3 Horizon Kingsland Business Park Wade Road Basingstoke Hampshire RG24 8AH | Consumer Retail Service (CRS) Consumer Technology (CTECH) 1. EMC 2. Radio 3. SAR 4. Bluetooth® 5. Safety Identity Management & Security (IMS) Transactional Services Information Technology Security Testing | BS |

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Site activities performed away from the locations listed above:

| Location details | Activity | Location code |
|--|--|---------------|
| Any | Radio | C |
| Chilbolton Observatory site Drove Road Stockbridge SO20 6BJ | EMC (FCC) | D |
| All locations suitable for the activities listed | Curtain walling Rainscreens | E |
| Test facilities operated by the customer | Weathertightness tests Security tests | F |



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DETAILS OF ACCREDITATION

TABLE 1: BUILDING AND LIFE SAFETY TECHNOLOGIES (BLST) WARRINGTON

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| BUILDING HARDWARE - emergency exit devices operated by a lever handle or push pad, for use on escape routes; | Temperature test Release tests Re-engaging test Durability test Abuse resistance test - operating element Abuse resistance test - vertical rods Security test Final examination Corrosion test | BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 BS EN 179:2008 | WQ |
| BUILDING HARDWARE - panic exit devices operated by a horizontal bar, for use on escape routes; | Temperature test Release tests Re-engaging test Durability test Abuse resistance test - horizontal bar Abuse resistance test - vertical rods Final examination Corrosion test | BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 BS EN 1125:2008 | WQ |
| BUILDING HARDWARE - controlled door closing devices; | Calculation of opening / closing moments Calculation of efficiency Closing time Closing overload Cycling Corrosion resistance Operation at extremes of temperature Free play | BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 BS EN 1154:1997+A1:2002 | WQ |
| BUILDING HARDWARE - single-axis hinges | Measurements Load-deformation Overload Shear strength Endurance Corrosion resistance | BS EN 1935:2002 BS EN 1935:2002 BS EN 1935:2002 BS EN 1935:2002 BS EN 1935:2002 BS EN 1935:2002 | WQ |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| BUILDING HARDWARE - mechanically operated locks and locking plates; latch bolts only | Return force of latch bolt Minimum follower restoring torque Resistance to side force on latch bolt Torque to operate the lock Strength of follower stops Durability of latch action without force applied Durability of latch action with force applied Door closing force Operation at extremes of temperature Corrosion resistance | BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 BS EN 12209:2016 | WQ |
| BUILDING HARDWARE - electrically powered hold-open devices for swing doors | Settleback at 90° hold open Manual release Electrical release Temperature rise Opening overload Durability Continuous hold-open Salt spray | BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 BS EN 1155:1997+A1:2002 | WQ |
| BUILDING HARDWARE - multi-axis concealed hinge assemblies | Friction torque Load deformation Overload Initial measurements and durability Corrosion resistance | EAD 020001-01-0405 EAD 020001-01-0405 EAD 020001-01-0405 EAD 020001-01-0405 EAD 020001-01-0405 | WQ |
| BUILDING HARDWARE | Corrosion resistance - neutral salt spray | BS EN 1670:2007 BS EN ISO 9227:2017 | WQ |



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TABLE 2a: BUILDING AND LIFE SAFETY TECHNOLOGIES (BLST) TELFORD

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| Windows and doors, curtain walling, rainscreen cladding systems and components, glass and glazing | A flexible scope including: Weathertightness, durability and security tests to technically equivalent test methods and updated versions of standards for which the laboratory is accredited and any combination of the above, within the ranges of: Force up to 20.0 kN Water pressure up to 4 bar Differential air pressure up to 500 Pa on site and 10 kPa in laboratory Torque up to 200 Nm Gas flowrate up to 360m ³ /hr Liquid flowrate up to 20,000 l/h Dimensions including height, width and depth up to 10m Mass up to 300 kg | Documented In-House Methods developed using TP14 | TF & E |
| EXTERIOR WALLS | Weathertightness | AAMA 501-15 | TF & F |
| | Air leakage | ASTM E 283-04(2012) | TF & F |
| | Water penetration | ASTM E 331-00(2016) | TF & F |
| | Structural performance | ASTM E 330/330M-14 | TF & F |
| CURTAIN WALLING | Impact resistance of opaque wall components - hard body impact tests | BS 8200:1985 | TF |
| | Impact resistance of opaque wall components - soft body impact tests | BS 8200:1985 | TF |
| | Impact resistance | BS EN 14019:2016 BS EN 13049:2003 | TF |
| | Air permeability | BS EN 12153:2000 | TF& F |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|---|---------------------------|
| CURTAIN WALLING (cont'd) | Watertightness under static pressure | BS EN 12155:2000 | TF & F |
| | Resistance to wind loading | BS EN 12179:2000 | TF & F |
| | Watertightness under dynamic condition of air pressure and water spray | BS EN 13050:2001 | TF |
| | Watertightness | BS EN 13051:2001 | TF & E |
| | DynTFmic water penetration | AAMA 501.1:1994 | TF & F |
| | Field hose test | AAMA 501.2-15 | TF & E |
| CURTAIN WALLING RAINSCREENS SLOPE GLAZING | | CWCT Standard for Systemised Building Envelopes and Standard Test Methods for Building Envelopes, December 2005 | |
| | Air leakage | Section 5 | TF & F |
| | Water penetration - static method | Section 6 | TF & F |
| | Water penetration - dynamic aero engine test | Section 7 | TF & F |
| | Water penetration - hose test | Section 9 | TF & E |
| | Water penetration - spray bar test | Section 10 | TF & E |
| | Wind resistance serviceability | Section 11 | TF & F |
| | Wind resistance - safety | Section 12 | TF & F |
| | Impact tests | Section 15 CWCT Technical Note No 76 | TF & E |
| | GLAZED ROOFING | Safety and fragility tests - temperature range 20 °C to 40 °C | CWCT Technical Note No 67 |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|---|---------------|
| WINDOWS | Operating forces | BS 6375-2:2009 BS EN 12046-1:2003 BS EN 13115:2001 | TF |
| | Soft and heavy body impact | BS 6375-2:2009 BS EN 13049:2003 | TF |
| | Resistance to racking | BS 6375-2:2009 BS EN 14608:2004 BS EN 13115:2001 | TF |
| | Resistance to static torsion | BS 6375-2:2009 BS EN 14609:2004 BS EN 13115:2001 | TF |
| | Strength of safety devices | BS 6375-2:2009 BS EN 14609:2004 as modified by Documented In-House Method No TP7 BS EN 14351-1:2006 A2:2016 | TF |
| WINDOWS - sliding and lift and slide windows and door height windows | Resistance to repeated opening and closing - part cycles | BS 6375-2:2009 BS EN 1191:2012 Annex B Clause B.4.2 | TF |
| WINDOWS - vertical sliding windows | Resistance to repeated opening and closing | BS 6375-2:2009 BS EN 1191:2012 Annex F as modified by Documented In-House Method No TP11 | TF |
| WINDOWS - fold and slide windows and door-height windows | Resistance to repeated opening and closing - part cycles | BS 6375-2:2009 BS EN 1191:2012 Annex D Clause D.3.2 | TF |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|---|--|---------------|
| WINDOWS: SINGULAR and MULTILIGHT - top hung, side hung, bottom hung, butt hinged - top and side hung projected - top hung and side hung fully reversible - tilt and turn and turn and tilt - vertical and horizontal sliding - fixed and fixed casements (dummy vents) - parallel opening - double opening (French windows) - vertical and horizontal pivot | Manipulation test Infill medium removal - manual test Infill medium removal - mechanical test Mechanical loading test Manual check test | PAS 24:2016 | TF & F |
| WINDOWS and DOORS | Weathertightness | BS 6375-1:2015 | TF & F |
| | Air permeability | BS 6375-1:2015 BS EN 1026:2016 | TF & F |
| | Watertightness | BS 6375-1:2015 BS EN 1027:2000 BS EN 1027:2016 | TF & F |
| | Resistance to wind load | BS 6375-1:2015 BS EN 12211:2016 | TF & F |
| | Basic security test | BS 6375-3:2009+A1:2013 | TF |
| | Resistance to repeated opening and closing | BS EN 1191:2000 (withdrawn) | TF |
| | Resistance to vertical load | BS 6375-2:2009 BS EN 947:1999 BS EN 1192:2000 | TF |
| | Resistance to static torsion | BS 6375-2:2009 BS EN 948:1999 BS EN 1192:2000 | TF |
| Resistance to soft and heavy body impact | BS 6375-2:2009 BS EN 949:1999 BS EN 1192:2000 | TF | |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|---|---|---------------|
| DOORS (cont'd) | Resistance to hard body impact | BS 6375-2:2009 BS EN 950:1999 BS EN 1192:2000 | TF |
| | Operating forces | BS 6375-2:2009 BS EN 12046-2:2000 BS EN 12217:2015 | TF |
| | Safety devices | BS 6375-2:2009 BS EN 948:1999 as modified by Documented In-House Method No TP7 BS EN 14351-1:2006 A2:2016 | TF |
| | Closure against obstruction | BS 6375-3:2009+A1:2013 | TF |
| DOORS - side-hung single and double leaf pedestrian doorsets, excluding power operated doors and double leaf pedestrian doorsets with self closing devices | Resistance to repeated opening and closing | BS 6375-2:2009 BS EN 1191:2012 Annex H Clauses H.4.1.1 and H.4.1.2 | TF |
| DOORSETS - single and double leaf - single and double swing - hinged - sliding (single and multi-track) - pivot - folding sliding (single and multi-track) - stable - with or without integral side panels and fanlights | Manipulation test Infill medium removal - manual test Infill medium removal - mechanical test Manual cutting test Mechanical loading test Manual check test Soft body impact test Hard body impact test Security hardware and cylinder test - Part 1 - Part 2 | PAS 24:2016 | TF & F |



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TABLE 2b: BUILDING AND LIFE SAFETY TECHNOLOGIES (BLST) TELFORD NOTIFIED LAB

| Accreditation for the purpose of UK Approved Body Activity in accordance with UKCA Requirements and UKAS Publication GEN 5 | | | |
|--|--|---|--|
| Directive / Regulation | Conformity Assessment Procedure / Module / Article | Category of products or individual products | Essential Requirements: Product Specification / Properties / Standards |
| Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020. | Testing Laboratory Attestation System 3 - including testing away from site (Article 46) | Curtain wallings (1/1): Curtain wall kits (as external walls not subject to reaction to fire requirements), Curtain wall kits (as external walls subject to reaction to fire requirements) 96/580/EC | EN 13830:2003 |
| | Testing Laboratory Attestation System 3 - including testing away from site (Article 46) | Doors, windows, shutters, blinds, gates and related building hardware (1/1): Windows (with or without related hardware) (any other), Doors and gates (with or without related hardware) (other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use (i.e. NOT for fire/smoke compartmentation, NOT for escape routes)) 99/93/EC | EN 14351-1:2006+A2:2016 |



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Accreditation for the purpose of Notified Body Activity relating to the Northern Ireland market (CE + UKNI) taking into account EA-2/17

| Directive / Regulation | Conformity Assessment Procedure / Module / Article | Category of products or individual products | Essential Requirements: Product Specification / Properties / Standards |
|---|--|--|--|
| The Construction Products Regulation (EU) No 305/2011 | Testing Laboratory Attestation System 3 - including testing away from site (Article 46) | Curtain wallings (1/1): Curtain wall kits (as external walls not subject to reaction to fire requirements), Curtain wall kits (as external walls subject to reaction to fire requirements) 96/580/EC | EN 13830:2003 |
| | Testing Laboratory Attestation System 3 - including testing away from site (Article 46) | Doors, windows, shutters, blinds, gates and related building hardware (1/1): Windows (with or without related hardware) (any other), Doors and gates (with or without related hardware) (other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use (i.e. NOT for fire/smoke compartmentation, NOT for escape routes)) 99/93/EC | EN 14351-1:2006+A2:2016 |



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TABLE 3: BUILDING AND LIFE SAFETY TECHNOLOGIES (BLST) ROSENHEIM

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|-----------------------------------|--|--|---------------|
| BUILDING MATERIALS and STRUCTURES | Fire resistance tests (General) | EN 1363-1: 2012 EN 1363-2: 1999 ENV 1363-3: 1999 BS 476-20: 1987 AS 1530.4:2014 (Sections 1 & 2) UL 263 | RH |
| PENETRATION SEALS | Fire Resistance | EN 1366-3: 2009 UL 1479 ASTM E814 AS 1530.4:2014 Section 10 | RH |
| LINEAR JOINT SEALS | Fire Resistance | EN 1366-4:2006+A1:2010 UL 2079 ASTM E1966 | RH |
| FLOORS AND ROOFS | Fire Resistance | EN 1365-2: 2014 BS EN 1364-2:2018 AS 1530.4:2014 Section 4 | RH |
| BEAMS | Fire Resistance | BS EN 1365-3:2000 | RH |
| COLUMNS AND BEAMS | Fire Resistance (applied protection to concrete members) | EN 13381-3: 2015 | RH |
| COLUMNS AND BEAMS | Fire Resistance (applied passive protection products to steel member) | EN 13381-4: 2013 | RH |
| WALLS AND PARTITIONS | Fire Resistance (applied protection to concrete /profiled sheet steel composite members) | EN 13381-5: 2014 | RH |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|-------------------------------|--|--|---------------|
| PROTECTIVE CURTAIN ASSEMBLIES | Fire Resistance - Protective Curtain Assemblies | UL 10D | RH |
| WALLS | Fire resistance - Non-load bearing walls, | BS EN 1364-1:2015 AS 1530.4:2014 Section 3 | RH |
| WALLS & LOAD BEARING ELEMENTS | Fire resistance - Load bearing walls, | BS 476-21:1987 BS EN 1365-1:2012 | RH |
| DOORS & SHUTTER ASSEMBLIES | Fire resistance tests to door sets and shutter assemblies. | UL 10B UL 10C BS EN 1634-1:2014+A1:2018 AS1530.4:2014 Section 7 | RH |
| COLUMNS | Fire Resistance (applied protection to concrete filled hollow steel columns) | EN 13381-6: 2012 | RH |
| BEAMS | Fire Resistance (applied protection to timber members) | ENV 13381-7: 2014 | RH |
| COLUMNS AND BEAMS | Fire Resistance (applied reactive protection to steel members) | EN 13381-8: 2013 | RH |
| BEAMS | Fire Resistance (applied fire protection systems to steel beams with web openings) | EN 13381-9: 2015 | RH |
| BEAMS | Fire Resistance (loadbearing elements of construction, beams) | BS 476-21: 1987 | RH |
| COLUMNS | Fire Resistance (loadbearing elements of construction, columns elements of construction) | BS 476-21: 1987 UL 263 UL 1709 ASTM E119 | RH |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|-----------------------------------|---|--|---------------|
| WALLS AND PARTITIONS | Fire Resistance (curtain walling, part configuration) | EN 1364-4: 2014 | RH |
| UNINSULATED GLAZING | Fire resistance for uninsulated glazing | AS1530.4:2014 Section 8 | RH |
| BUILDING MATERIALS and STRUCTURES | Reaction to Fire Non-combustibility test Determination of the gross heat of combustion (calorific value) Thermal attack by a single burning item Impingement of single-flame source test Burning behaviour using a radiant heat source | Methods of test required for the Fire classification of construction products and building elements (BS EN 13501-1:2018) using data from the reaction to fire tests detailed below. BS EN ISO 1182:2010 BS EN ISO 1716:2018 BS EN 13823:2020 BS EN ISO 11925-2:2010 BS EN ISO 9239-1:2010 | RH |
| FLOORINGS | Reaction to fire tests for floorings. Determination of the burning behaviour using a radiant heat source | EN ISO 9239-1:2010 | RH |
| BUILDING PRODUCTS | Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Single-flame source test | EN ISO 11925-2:2010 EN ISO 11925-2:2020 | RH |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|--|---|---------------|
| BUILDING PRODUCTS | Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value) | BS EN ISO 1716:2010 EN ISO 1716:2018 | RH |
| BUILDING PRODUCTS | Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item | EN 13823:2010+A1:2014 (withdrawn) EN 13823:2020 | RH |
| BUILDING PRODUCTS | Reaction to fire tests for products. Non-combustibility test | EN ISO 1182:2010 AS 1530.1:1994 | RH |
| BUILDING PRODUCTS | Extended application for fire classification - guidelines for direct and extended application for Reaction to Fire | EN 15725:2010 Annex A Reaction to Fire - CEN/TS 15117:2005 | RH |
| | | | |



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Table 4: CONSUMER AND RETAIL SERVICES (CRS) BASINGSTOKE

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| TOYS AND TOY PACKAGING | Mechanical and physical properties | EN 71-1:2014 +A1:2018 Excluding clauses: 4.14 Toys which a child can enter 4.15 Toys intended to bear the mass of a child 4.15.1.5 Braking 4.16 Heavy immobile toys 4.17 Projectile toys 4.18 – Inflatable aquatic ride-on toys with a maximum dimension larger than 1,2 m 4.20 Acoustics 4.23 Magnets 4.24 Yo Yo balls 4.26 Disguise costumes 4.27 Flying toys 5.4 Cords, chains and electrical cables in Toys 8.4.2.4 Suction cup test method | BS |
| TOYS AND TOY MATERIALS (excluding flammable gases, liquids and solids) | Flammability | EN 71-2:2020 EN 71-2:2011 + A1:2014 AS/NZS ISO 8124-2:2016 ISO 8124-2:2014 for the clauses detailed below 4.1 General requirements Cellulose nitrate & surface flash | BS |
| CHILDCARE Soothers | <u>Mechanical and Physical</u> | EN 1400:2013 + A2: 2018 excluding clauses: 9.6.2 Rotational endurance 10.4 Nitrosamines 10.5 MBT 10.6 BPA 10.7 Colour fastness 10.8 Volatile compounds | BS |
| WRITING AND MARKING INSTRUMENTS | <u>Mechanical and Physical</u> | BS 7272-1:2008 BS 7272-2:2008 + A1:2014 | BS |



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Table 5: IDENTITY MANAGEMENT & SECURITY (IMS) BASINGSTOKE

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|---|---|---------------|
| Contactless Terminals | Transactional Services | | |
| | Level 1 Analogue test Test Tool: UL Test Bench TB21 | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo Type Approval Contactless Terminal Level 1 PCD Analogue Test Bench and Test Case Requirements Version 3.0a February 2019 | BS |
| | Level 1 Digital test Test Tool: Micropross MP500 TCL3 | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo Type Approval Contactless Terminal Level 1 PCD Digital Test Bench and Test Case Requirements Version 3.0a February 2019 | BS |
| | Interoperability test Test Tool: UL Test Bench TB518 | EMV Terminal Type Approval PCD Level 1 Interoperability Testing Requirements Version 1.2, December 2019 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|--|---------------|
| | Transactional Services (cont'd) | | |
| Contactless Smart Cards supporting EMV Payment Applications | Level 1 Analogue test Test Tools : UL Test Bench TB452 | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 3.0a February 2018 | BS |
| Contactless Smart Cards supporting EMV Payment Applications | Level 1 Analogue test (cont'd) Test Tools : Micropross Contactless Test Station TB433/TB434 | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.6, March 2016 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.6b December 2016 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.5, March 2015 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.5a November 2015 | BS |



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|--|--|---|---------------|
| Contactless Smart Cards supporting EMV Payment Applications (cont'd) | Transactional Services (cont'd) Level 1 Analogue test (cont'd) | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.3.1, November 2013 Technique used: EMV Contactless Specifications for Payment Systems EMVCo Contactless Type Approval: PICC Analogue Test Bench and Test Case Requirements Version 2.3.1a November 2013 | |
| Contactless Smart Cards supporting EMV Payment Applications (cont'd) | Level 1 Digital test Test Tool: Micropross MP500 TCL3 | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Interface Specification Version 3.0 February 2018 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 3.0a February 2019 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.6, March 2016 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 2.6b December 2016 | BS |



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|--|--|---|---------------|
| Contactless Smart Cards supporting EMV Payment Applications (cont'd) | Transactional Services (cont'd) Level 1 Digital test (cont'd) | Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.5, March 2015 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases PICC Digital Test Bench and Test Case Requirements Version 2.5a November 2015 Specification: EMV®* Contactless Specifications for Payment Systems Book D EMV Contactless Communication Protocol Specification Version 2.3.1, November 2013 Technique used: EMVCo PICC Level 1 Protocol Digital Test Cases Version 2.3.1a November 2013 | |
| EMVCo Contact Payment Terminal | Functional application testing EMVCo Contact Level 2 Terminal Test Tools: FIME EVAL Platform Smartware x-Core Series Galitt KaNest@-ICC Galitt Simcos@ 2.3_ali_4 ICC Solutions IccSimTMat ICC Solutions Java Card | Book 1 - Application Independent ICC to Terminal Interface Requirements Version 4.3 Book 2 - Security and Key Management Version 4.3 Book 3 - Application Specification Version 4.3 Book 4 - Cardholder, Attendant, and Acquirer Interface Requirements EMVCo Type Approval Terminal Level 2 Test Cases Version 4.3h | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| Contact Smart Cards supporting EMV Payment Applications | Application Testing (i.e. Level 1 – Electrical and Protocol) TestTools: Micropross MICR.T.L1E.0110 Clear2Pay INTE.T.L1P.0175 FIME FISA.T.LIP. 0245 Micropross MP300 TC3 | EMVCo Card Type Approval Card Level 1 Electrical and Protocol Test Cases Version 4.3.a November 2012 EMV Integrated Circuit Card Specifications for Payment Systems Book 1, Application Independent ICC to Terminal Interface Requirements, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 2, Security and Key Management, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 3, Application Specification, version 4.3, November 2011 EMV Integrated Circuit Card Specifications for Payment Systems Book 4, Cardholder, Attendant, and Acquirer Interface Requirements, version 4.3, November 2011 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|---|--|---------------|
| Contact Smart Cards supporting Visa Smart Debit/ Credit Applications | <p>Transactional Services (cont'd)</p> <p>Application Testing Level 2</p> <p>Test Tools: Omnikey 5321 Gemalto GemPC USN SCM SD10, SD11 ICC Solutions VSDC v1.5.4b_2Add ICC Solutions VSDCv 1.4_b ICC Solutions VCPS_2_2a_R02 Gemalto GEMPC USB Gemalto PC USB-TR ICC Solutions VSDC v1.6.1_R02</p> | <p>Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5.4 Card Image Requirements, Version 1.5.4b, May 2014</p> <p>Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5 Functional Testing Requirements-Supplemental, Version 1.5.4b, September 2017</p> <p>Card Testing Requirements for Visa Integrated Circuit Card Specification Version 1.5 Functional Testing Requirements, Version 1.5.4b, May 2014</p> <p>Visa Integrated Circuit Card Specification (VIS) 1.5 Updates List, Version 5, January 2016</p> <p>Visa Integrated Circuit Card Specification (VIS), Version 1.5, May 2009</p> <p>Visa Integrated Circuit Card, Card Specification, Version 1.4.1, June 2008</p> <p>Visa Integrated Circuit Card, Terminal Specification, Version 1.4.0, October 2001</p> <p>Visa Integrated Circuit Card, Application Overview Specification, Version 1.4.0, October 2001</p> <p>Visa Integrated Circuit Card Specification (VIS) 1.4.1 Updates List, Version 1.0, March 2009</p> <p>Personalization Requirements for Testing and Approval of Visa Smart Debit/Credit Applications Compliant with VIS 1.4.0, Version 2.0, January 2006</p> | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| Contact Smart Cards supporting Visa Smart Debit/ Credit Applications (cont'd) | Transactional Services (cont'd) | <p>Test Plan for Visa Integrated Circuit Card Specification (VIS) 1.4.0 Visa Smart Debit/Credit, Books 1 to 4, Version 2.0, January 2006</p> <p>Visa Integrated Circuit Card Specification (VIS), Version 1.6, January 2016</p> <p>Visa Integrated Circuit Card Specification (VIS) 1.6 Updates List, Version 1, March 2016</p> <p>VISA Smart Debit and Credit (VSDC) Personalization Specification - Requirements for Common Personalization of VIS 1.6 and VCPS 2.2. Applications, Version 2.1, January 2016</p> <p>VISA VIS 1.6.1a R02 Regression and Transaction Test List, Version 1.6.1a_R02, February 2017</p> <p>Visa VIS 1.6.1a Test Plan Package Release R02, Version 1.0, March 2017</p> | BS |
| Contactless Smart Cards supporting Visa Contactless Payment Application | <p>Application Testing Level 2</p> <p>Test Tools: Omnikey 5321 SCM SD10, SD11 ICC Solutions VCPS_2.1.3b_R_01_Upd02 ICC Solutions VCPS_2.1.2.b_CPA_1</p> | <p>Visa Contactless Payment Specifications Functional Testing Requirements, Book 1, Parts 1-3, Version 2.1.3b_R_01, December 2015</p> <p>Visa Contactless Payment Specifications Card Images, Book 2, Parts 1-4, Version 2.1.3b_R_01, December 2015</p> <p>Visa Contactless Payment Specifications Functional Test Batches, Book3, Version 2.1.3b_R_01, December 2015</p> | BS |



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|--|---|--|---------------|
| Contactless Smart Cards supporting Visa Contactless Payment Application (cont'd) | Application Testing Level 2 (cont'd) Test Tools: Omnikey 5321 SCM SD10, SD11 ICC Solutions VCPS_2.1.3b_R_01_Upd02 ICC Solutions VCPS_2.1.2.b_CPA_1 | Visa Contactless Payment Specifications with CPA Card Images, Book 8, Parts 1-3, Version 2.1.2b_R_04, February 2015 Visa Contactless Payment Specifications with Common Payment Application Functional Testing Requirements, Books 7, Parts 1-3, Version 2.1.2b_R_04, February 2015 Visa Contactless Payment Specification (VCPS), Version 2.1, May 2009 Visa Contactless Payment Specification (VCPS), Version 2.2, January 2016 VISA Smart Debit and Credit (VSDC) Personalization Specification – Requirements for Common Personalization of VIS 1.6 and VCPS 2.2 Applications, Version 2.1, January 2016 Visa VCPS 2.2a Test Plan Package Release R02 Version 1.0, March 2017 VISA VCPS 2.2a R02 Regression and Transaction Test List, 2.2_R02_00, February 2017 | |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|-------------------------------------|---|---|---------------|
| Security of IT Products and Systems | Information Technology Security Testing | Common Criteria (CC) 3.1 (ISO/IEC 15408) CEM version (ISO/IEC 18045) EAL1 to EAL5 ALC_DVS.2 AVA_VAN.5 EAL_POI AVA_POI CESG Test Laboratories General Operational Requirements: V2.1 | BS |



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Table 6: CONSUMER TECHNOLOGY (CTECH) BASINGSTOKE

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|---|--|---------------|
| Aerospace Components and Equipment Audio Equipment (Exclude Video equipment and TV receiver) Batteries and Cells Circuit Breakers and Switches Coatings: Metallic Composite Materials Compressors Computers and Peripherals Construction Materials Construction Plant and Equipment Construction Products Domestic Appliances: Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electronic Products: Digital Electrical Cables Electro-Mechanical Devices Enclosures for Electrical Equipment Engine Components Explosion Protected Electrical Equipment Filters and Filter Media (Electrical) Fans Firearms Fire Fighting and Detection Equipment Flowmeters: Excluding Calibration Fuses: Electrical Gas Appliances Generators: Electrical Generators: Power | 1 EMC Testing 1.1 Conducted Emissions 0 Hz to 100 MHz Note ³ : Excludes grid connected power converters (GCPC) | CISPR 11:2015 +A1:2016 +A2:2019 ⁽³⁾ CISPR 14-1:2005 CISPR 16-2-1:2003 CISPR 25:2002 ICES-003 Issue 6 EN 50412-2-1:2005 EN 55011:2016 +A1:2017 ⁽³⁾ EN 55014-1:2006 EN 55014-1: 2006 including Amendment A2:2011 | BS |



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Testing performed by the Organisation at the locations specified

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| Continued from Page 27 Generators: Welding Heating and Cooking Appliances Instruments: Indicating/Recording Insulating Materials: Electrical IT Equipment Lamps: Electrical Lawnmowers Lifting Gear Lifts: Electrical Luminaires Marine Equipment Measuring Equipment Medical/Dental Equipment Micro-Electronic Circuits and Components Mining Equipment Components Mining Plant and Equipment Missile Components Motor Vehicle Accessories and Components Motors: Electrical Office Equipment: Electrical Plugs and Sockets: Electrical Power Supplies: Electrical Printed Circuit Boards Radar Equipment Radio and TV Equipment Radiocommunications Equipment Rescue Appliances/ Equipment Safety Appliances/ Equipment Satellites and Subassemblies Security Devices and Alarms Security Equipment Smoke Detectors | 1 EMC Testing (cont'd) 1.1 Conducted Emissions (cont'd) 0 Hz to 100 MHz (cont'd) | EN 55032:2015 Vol 47 (Telecomms) FCC: Code of Federal Regulations: Part 15 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 *includes signal lines where standard ISN's and CDN's can be used. ANSI C63.4:2014 | BS |
| | 1.2 Radiated Electric Field Emissions: 30 MHz to 110 GHz | CISPR 11:2015 +A1:2016 +A2:2019 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|--------------------------|
| Continued from Page 28 Smoke and Heat Control Equipment Sonar Equipment Switchboards: Electrical Telecommunications Equipment Transformers: Electrical Video Equipment Watt-hour Meters, integrating | <p>1 EMC Testing (cont'd)</p> <p>1.2 Radiated Electric Field Emissions: (cont'd) 30 MHz to 110 GHz (cont'd)</p> <p>Transient emissions Broadband emissions Narrowband emissions</p> <p>Note ** ESAs only ***FTT measurements exclude</p> | <p>BS EN 55011:2009 + A1:2010</p> <p>EN 55016-2-3:2010 + A2:2014***</p> <p>EN 55016-2-3:2017***</p> <p>EN 55032:2015 ECE Regulation 10.6**</p> <p>ICES-003 Issue 6 I-ETS 300 131:1994(exc ae port measurements) Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 15</p> <p>Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 ANSI C63.4:2014</p> <p>FCC Measurement Procedure MP-5 ISO 7637</p> | <p align="center">BS</p> |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|---|--|---------------|
| As listed from Page 27 | 1 EMC Testing (cont'd) 1.3 Radiated Magnetic Field Emissions: 20 Hz to 30 MHz Note EN 55014-1:2006 including A2:2011 Testing requiring a Loop Antenna System is excluded from this schedule | CISPR 11:2015 +A1:2016 +A2:2019 BS EN 55011:2009 + A1:2010 EN 55011:2016 +A1:2017 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 15 Vol 47 (Telecomms) FCC Code of Federal Regulations: Part 18 ANSI C63.4:2014 | BS |
| | 1.4 Power Absorbing Emissions Measurements (Power Clamp) 30 MHz to 300MHz | AS/NZS 1044:1995 EN 55014-1:2006 EN 55014-1:2006 + A1:2009 CISPR 14-1:2005 CISPR 14-1:2005 EN 55014-1: 2006 including Amendment A2:2011 | BS |



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|---------------------------|--|--|---------------|
| As listed from Page 27 | 1 EMC Testing (cont'd) | | |
| | 1.5 Discontinuous Emissions (Clicks): 10 kHz to 30 MHz | EN 55014-1:2000 including Amendment A1:2001 and A2:2002 CISPR 14-1:2000 Amendment A1:2001 and A2:2002 EN 55014-1:2006 EN 55014-1:2006 + A1:2009 EN 55014-1: 2006 including Amendment A2:2011 CISPR 14-1:2005 | BS |
| | 1.6 Conducted Current Harmonics (Emissions): Measurements up to 40 th Harmonic Equipment Input Current ≤ 16A Per Phase | EN 61000-3-2:2014 EN 61000-3-2:2020 | BS |
| | 1.7 Conducted AC Mains Flicker (Emissions) | EN 61000-3-3:2013 EN 61000-3-3:2013 + A1:2019 | BS |
| | 1.8 Electrostatic Discharge Immunity (ESD): Up to 30 kV Direct and Indirect Air and Contact Discharge Positive and Negative Polarity | IEC 61000-4-2:2008 EN 61000-4-2:2009 | BS |



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|---------------------------|--|---|---------------|
| As listed from Page 27 | <p>1 EMC Testing (cont'd)</p> <p>1.9 Radiated Electromagnetic Field Immunity: 80MHz to 6 GHz</p> <p>Range of Measurements: up to 100 V/m</p> <p>Automated closed loop field monitoring or</p> <p>Precalibration method (uniform field)</p> <p>Note: The ability to conduct radiated immunity testing in site situations will be limited by the need to avoid contravening radio transmission regulations and/or the availability of a suitable screened enclosure. Note: ** ESAs only</p> | <p>IEC 61000-4-3:2006 + A1:2007 EN 61000-4-3:2006 + A2:2010 ISO 11452-2:1995 ISO 11452-3:1995 2004/104/EC Annex IX ISO 11452-1:2005 ISO 11452-2:2004 IEEE C37.90.2:1995</p> | BS |
| | <p>1.10 Fast Transient Burst Immunity 0.25 kV to 4.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 ms burst duration</p> | <p>EN 61000-4-4:2012</p> | BS |



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|---------------------------|---|---|---------------|
| As listed from Pages 27 | <p>1 EMC Testing (cont'd)</p> <p>1.11 Conducted Radio Frequency Immunity: 150 kHz to 230MHz RF voltage up to 15 V rms Injection via coupling networks, direct current injection or bulk current injection</p> <p>Note ** ESAs only</p> <p>*** for Bulk Current Injection test method maximum frequency is limited to 100 MHz</p> | <p>EN 61000-4-6:2014*** ISO 11452-4:2001</p> <p>2004/104/EC Annex IX 11452-4:2005</p> <p>ECE Regulation 10.6** EN 61000-4-6:2009 IEC 61000-4-6:2008</p> | BS |
| | <p>1.12 Surge Immunity Waveforms: 10/700 □s</p> <p>100/700 □s 0.5/700 □s 0.2 kV to 6 kV 1.2/50 (8/20) □s Common mode Differential mode</p> | <p>EN 61000-4-5:2006 EN 61000-4-5:2014</p> <p>IEC 61000-4-5:2005 EN 61000-4-5:2014 + A1:2017</p> | BS |
| | <p>1.13 Voltage Variations and Deviations: DC Power Ports</p> | <p>EN 61000-4-11:2004 IEC 61000-4-11:2004 EN 61000-4-11:2020 IEC 61000-4-11:2020</p> | BS |



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|---------------------------|--|---|---------------|
| As listed from Page 27 | 1 EMC Testing (cont'd) 1.14 AC Power Ports Voltage Dips, Interruptions and Fluctuations (Immunity): Voltage Dips: up to 100% Voltage Reductions: up to 100% Voltage Fluctuations: up to 100% | EN 61000-4-11:2004 IEC 61000-4-11:2004 | BS |
| | 1.15 Power-Frequency Magnetic Fields (Immunity) Frequency: 15 Hz to 1.5 kHz Field strength: up to 300 A/m | EN 61000-4-8:2010 IEC 61000-4-8:2009 * - using the Helmholtz Coil A095 | BS |
| | 1.16 Immunity to Close Proximity Magnetic Fields: 30 kHz, 134.2 kHz and 13.56 MHz | EN 61000-4-39:2017* * - Methods for testing at spot frequencies required by IEC 60601-1-2:2014 + A1:2020 only | BS |
| | 1.17 Electrical Transients in Motor Vehicles: 12 / 24 V vehicle systems Note ** ESAs only | ISO 7637-2:2004 and 2011 Pulses 1a, 1b (Max test voltage - 600V) Pulse 2 (RI limited to 10 Ω or 50 Ω) Pulses 3a, 3b, 4, 5 ISO 7637-3:1995 Pulse types 1, 2, 3a, 3b, 4, 5, 6 & 7 ECE Regulation 10.6** | BS |



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|---------------------------|---|--|---------------------|
| As listed from Page 27 | <p>1 EMC Testing (cont'd)</p> <p>1.18 EMC Tests</p> <p>This section includes generic and product family standards that refer to basic standards included in Sections 1.1 to 1.17 of this Schedule.</p> | <p>EN 50130-4: 2011 EN 50270:1999 EN 55014-2:1997 + A1:2001 EN 55014-2 1997 + A2 2008 EN 55016-2-1:2014</p> <p>EN 55024: 2010 incorporating corrigendum 2011 EN 55032:2015 EN 55035:2017 EN 55103-2:1996 IEC 60601-1-2:2014² EN 60601-1-2: 2015² IEC 60601-1-2:2014 + A1:2020² EN 60601-1-2:2015 + A1:2021²</p> <p>EN 61000-6-1:2007</p> <p>EN 61000-6-2:2005</p> <p>EN 61000-6-3:2007 including Amendment A1:2011 *</p> <p>EN 61000-6-4:2007 including Amendment A1:2011 *</p> <p>EN 61326-1:2013 EN 61326-2-1:2006 IEC 61326-1:2020 EN 61326-2-2:2006 EN 61326-2-3:2006 EN 61326-2-4:2006 EN 61326-2-5:2006 IEC 61326-2-6:2020 EN 12015:pr 1995 EN 12016:pr 1995 EN 12016:2004</p> <p>EN 300 386:V2.1.1:2016 95/56/EC Annex VI paragraphs 3.2, 5.2 and 8.2</p> | <p>BS</p> <p>BS</p> |



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| As listed from Page 27 | <p>1 EMC Testing (cont'd)</p> <p>1.18 EMC Tests (cont'd) Note: International Standards, EN, ENV and IEC, listed in this schedule, that have been adopted nationally as</p> <p>BS EN DD ENV and BS IEC and are technically identical, can be considered</p> <p>as being included in this schedule.</p> | <p>3GPP TS 34.124 ETSI TS 134 124 3GPP TS 36.124 3GPP TS 36.124 3GPP TS 38.124 ETSI EN 301 908-1 V11.1.1 section 8.2</p> <p>ETSI EN 301 908-1 V13.1.1 (2019-11)</p> <p>ETSI TS 136 124 ETSI TS 136 124 ETSI TS 138 124 EN 301 489-1 V2.1.1 (2017-02) Draft EN 301 489-1:V2.2.0 (2017-03)</p> <p>EN 301 489-1 V2.2.3 (2019-11) EN 301 489-2 V2.1.1 (2019-04)</p> <p>EN 301 489-3V2.1.1(2017-03) EN 301 489-4V3.2.1 (2019-03) Draft EN 301 489-4 V3.3.0 (2020) EN 301 489-4 V3.3.1 (2021-02) EN301 489-5:V2.2.0 (2017-03) EN 301 489-6V1.3.1(2008-08)</p> <p>EN 301 489-9 V2.1.1 (2017-03)</p> <p>EN 301 489-13 V1.2.1 (2002-08) EN 301 489-15 V1.2.1 (2002-08) EN 301 489-17 V3.2.4 (2020-09) Draft EN 301 489-17 V3.2.0 (2017-03) Draft EN 301 489-17 V3.2.2 (2019-12)</p> | BS |



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| As listed from Page 27 | <p>1 EMC Testing (cont'd)</p> <p>1.18 EMC Tests (cont'd) Note: International Standards, EN, ENV and IEC, listed in this schedule, that have been adopted nationally as BS IEC and are technically identical, can be considered as being included in this schedule.</p> | <p>EN 301 489-19:V2.1.1 (2019-04)</p> <p>Draft EN 301 489-19 V2.2.0 (2020-09)</p> <p>EN 301 489-33:V2.2.0 (2017-03) Draft</p> <p>EN 301 489-50:V2.2.1 (2019-04)</p> <p>EN 301 489-51:V2.1.1 (2019-04)</p> <p>Draft EN 301 489-52 V1.1.2 (2020-12)</p> <p>EN 50121-1:2006 EN 50121-3-2:2006 EN 50121-4:2006 EN 50121-5:2006 EN 50293:2012 EN 50561-1:2013</p> | <p>BS</p> <p>BS</p> |

Note ¹ EN 55016-2-1:2014 exclude tests that specifically require the use of a CDNE or FTT measurement

Note ² Excludes ME Equipment and ME Systems for use in aircraft



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|---|--|--|---------------|
| Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment | 2 Radio Transmitter and Receiver Testing | | BS |
| | 2.1 Accuracy and Stability of Timing Parameters | EN 300 440-1:V2.1.1:2017 | |
| | 2.2 Adjacent Channel Power to 90 dBc | EN 300 220-1:V3.1.1:2017 EN 300 220-2:V3.1.1:2017 EN 300 220-3-1:V2.1.1:2016 EN 300 220-3-2:V1.1.1:2017 EN 300-220-4:V1.1.1:2017 | |
| | 2.3 Adjacent Channel Selectivity 100 kHz to 90 GHz | | |
| | 2.4 Bit Error Rate Measurements | | |
| | 2.5 Blocking and Desensitisation 9 kHz to 110 GHz | | |
| | 2.6 Co-Channel Rejection 100 kHz to 90 GHz | EN 300 328 V2.1.1:2016 EN 300 328 V2.2.2.: 2019 EN 300 330-1:V2.1.1:2017 | |
| | 2.7 Effective Receiver Sensitivity 100 kHz to 90 GHz | EN 301 126-1 V1.1.2 (1999-09) | |
| | 2.8 Emissions - Conducted 100 Hz to 170 GHz | | |
| | 2.9 Emissions - Effective Radiated Power 9 kHz to 110 GHz | EN 301 893:V2.1.1 (2017-05) ETSI EN 301 908-1:V11.1.1(2016-07) EN 301 908-13 V13.1.1; Clause 4.2.4 | |
| | 2.10 Frequency Error 9 kHz to 110 GHz | 3GPP TS 51.010-1 (12.2.x) EN 301 511 V12.5.1 (2017-03) ⁹ | |



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|--|--|--|---------------|
| Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd) | 2 Radio Transmitter and Receiver Testing (cont'd) | | BS |
| | 2.11 Frequency Range 9 kHz to 170 GHz | | |
| | 2.12 Frequency Stability 9 kHz to 110 GHz | EN 302 217-2 V3.2.2(2020-02) Note ¹⁰ EN 302 729 V2.1.1 EN 302 372 V2.1.1 EN 303 372-2 V1.1.1 (2016-04) EN 303 413 V1.1.1 EN 305 550-1 V1.2.1:2014 EN 305 550-2 V1.2.1:2014 | |
| | 2.13 Intermodulation Attenuation 100 kHz to 110 GHz | GSM 11.21:1995 AS/NZS 4268:2012 + A1:2013 AS/NZS 4281:1995 AS 4295:1995 | |
| | 2.14 Intermodulation Response (2 and 3 Generator Method) 9 kHz to 26.5 GHz | EN 302 326-1:V1.2.2:2007 Note ¹⁰ EN 302 326-2:V1.2.2:2007 Note ¹⁰ Annex 11 to the Ministerial Decree of 19 th October 1979 relating to private | BS |



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|---------------------------|--|--|---------------|
| | <p>2.15 Maximum Frequency Deviation 9 kHz to 100 kHz</p> <p>2.16 Maximum Useable Sensitivity 9 kHz to 40 GHz</p> | <p>radio-communications: Dec 1990 TS 101 087:V8.9.0:2003 TS 151 021:V5.3.0:2003 FCC 47CFR2 FCC 47CFR11***</p> <p>FCC 47CFR15 FCC 47CFR18 FCC 47CFR20 FCC 47CFR22 FCC 47CFR24</p> <p>FCC 47CFR25 FCC 47CFR27 FCC 47CFR73⁶ FCC 47CFR74 FCC 47CFR90 FCC 47CFR95**** FCC 47CFR97**** FCC 47CFR101</p> | |



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|--|---|--|---------------|
| Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd) | <p>2 Radio Transmitter and Receiver Testing (cont'd)</p> <p>2.16 Maximum Useable Sensitivity (cont'd) 9 kHz to 40 GHz</p> <p>2.17 Out of Band Power 9 kHz to 110 GHz</p> <p>2.18 Permitted Range of Operation Frequencies 9 kHz to 110 GHz</p> | RSS-GEN ISSUE 5, APRIL 2018 RSS-111 Issue5, September 2014 RSS-118 Issue 2, August 1990 RSS-119 Issue 11, June 2011 RSS-125 Issue 2, Rev 1, March 2000 RSS-130 Issue 1, October 2013 RSS-131 Issue 2, July 2003 RSS-132 Issue 3, January 2013 RSS-133 Issue 6, January 2013 RSS-137 Issue 2, February 2009 RSS -139 Issue 3, July 2015 RSS-142 Issue 5, April 2013 RSS-170 Issue 2, March 2011 RSS-191 Issue 3, April 2008 RSS-199 Issue 3, December 2016 RSS-195 Issue 2, April 2014 RSS-210 Issue 10, December 2019 RSS-220 Issue 1, March 2009 RSS-247 Issue2, February 2017 ANSI C63.4:2014 ANSI C63.10:2013 ANSI C63.17:2006 ANSI C63.26:2015 7 | BS |



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|--|---|---|---------------|
| Marine Radio Equipment Land Mobile Radio Equipment Fixed Link Radio Equipment (cont'd) | <p>2 Radio Transmitter and Receiver Testing (cont'd)</p> <p>2.19 Reference (Receiver) Sensitivity 9 kHz to 40 GHz</p> <p>2.20 Relative Humidity 20% to 75%</p> <p>2.21 Selectivity 90 dB</p> <p>2.22 Spurious Emissions 20 Hz to 170 GHz</p> <p>2.23 Spurious Response Rejection 9 kHz to 170GHz</p> <p>2.24 Temperature - 45 °C to 75 °C</p> <p>2.25 Reserved</p> <p>2.26 Transmitter Carrier Power 10 μW to 2 kW 30 MHz to 90 GHz</p> <p>2.27 Reserved</p> <p>2.28 Control & Monitoring Functions</p> <p>2.29 Dynamic Frequency Selection (DFS).</p> | <p>ANSI/TIA-603-E 2016 ⁸</p> <p>SRSP-305.9 Issue 5 December 2006</p> <p>SRSP-317.8 Issue 2 December 2006</p> | BS |



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|---|--|---|---------------|
| Wireless power transmission systems | Permitted range of operating frequencies Operating frequency ranges H-field requirements Transmitter spurious emissions Transmitter out of band (OOB) emissions WPT system unwanted conducted emissions Receiver blocking Range of Measurement 19kHz - 400kHz | ETSI EN 303 417 V1.1.1 (2017-06) Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges Excluding the 6 765 - 6 795 kHz range <i>Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU</i> | BS, C, D |
| Short Range Devices (SRD) using Ultra Wide Band technology (UWB) Exclusions: The scope of this application excludes operating frequencies outside the 6 to 8.5 GHz band and spectrum access tests (DAA & LDC). | Operating Bandwidth (Permitted Range of Operating Frequencies, 9 kHz to 110 GHz) Mean Power Spectral Density (Transmitter Carrier Power, 10 µW to 2 kW, 30 MHz to 90 GHz) Peak Power (Transmitter Carrier Power, 10 µW to 2 kW, 30 MHz to 90 GHz) Other Emissions (Spurious Emissions, 20 Hz to 170 GHz) Receiver Spurious Emissions (Spurious Emissions, 20 Hz to 170 GHz) Receiver Interference Handling (Blocking and Desensitisation, 9 kHz to 110 GHz) | ETSI EN 302 065-1 V2.1.1 (referencing parts of ETSI EN Radio V1.1.1 and ETSI TS 103 361 V1.1.1) (Excluding operating frequencies outside the 6 to 8.5 GHz band and excluding Conformance test suites for spectrum access). | BS |



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|--|--|--|---------------|
| Multiple-Gigabit/s radio equipment operating in the 60 GHz band. | Spectral Power Density, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.3 | BS |
| | RF Output Power, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.4 | |
| | Transmitter Unwanted Emissions, 30 MHz to 132 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.5 | |
| | Receiver Unwanted Emissions, 30 MHz to 132 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.6 | |
| | Adaptivity, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.8 | |
| | Receiver Adjacent Channel Rejection, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.7 | |
| | Transmitter Unwanted Emissions in the Out-of-Band Domain, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.9 | |
| | Occupied Channel Bandwidth, 57 to 66 GHz | ETSI EN 302 567 V2.1.1, Clause 5.3.10 | |

Note¹⁰: Microwave antenna performance measurements and Analogue link equipment performance measurements are excluded from the scope of this Schedule.

Note ** EN 301 893 V1.8.1 V2.2.1 (2017-05)
EXCLUDING: Adaptivity tests on 160MHz channels are excluded from the scope of this accreditation.

Note ⁷ ANSI C63.26:2015
EXCLUDING: Section 6.2 – Medical implant transmitter measurements

Note ⁸ - ANSI/TIA-603-E 2016
EXCLUDING CLAUSES: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 and 2.4

Note ⁹ EN 301 511 V12.5.1 limited to only cover the Radiated Spurious Emissions for GSM mobile stations, as requested by clauses 4.2.16 and 4.2.17



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| <p>Note*** FCC 47CFR11 The following paragraphs are excluded from the scope of this Schedule: - Part 11.32(a)(8) Spurious Response Part 11.32(a)(9)(ii) Harmonic Distortion Part 11.32(a)(9)(iii) Minimum Level of Output Part 11.32(a)(9)(iv) Time Period for Transmission of Tones Part 1.32(d) Testing Encoder Units</p> <p>Note**** FCC 47CFR95 The following requirements are excluded from the scope of this schedule: - Subpart I—(MEDRADIO) Subpart K—(PLB) Subpart L—(DSRCS-OBUS) Peak Envelope Power Measurements under 95.639 - Maximum Transmitter Power 95.637- Modulation Standards</p> <p>Note ***** FCC 47CFR97 The following requirements are excluded from the scope of this schedule:- FCC 47CFR Part 97.313 Transmitter Power Standards and measurements above 110 GHz are excluded from this application.</p> | | | |
| <p>Note⁶ FCC 47CFR73 The following requirements are excluded from the scope of this schedule:- 73.317(e) – Preemphasis Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. 73.319 – FM multiplex subcarrier technical standards Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. 73.322 – FM stereophonic sound transmission standards Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. Subpart E – TELEVISION BROADCAST STATIONS Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope. Subpart F – INTERNATIONAL BROADCAST STATIONS Insufficient equivalence to standards/tests on current schedule for inclusion under flexible scope.</p> | | | |



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| | <p>3 SAR & RF Exposure</p> <p>3.1 Specific Absorption Rate</p> <p>450 MHz to 6 GHz Using the DASY 5 and DASY 6 systems</p> | <p>IEEE C95.3:1997 NZS 2772.1: 1999 AS/NZS 2772.2: 2011 Australian Communications and Media Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Amendment Standard 2007 (No. 1) Australian Communications and Media Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2014 Radiocommunications Act 1992</p> <p>EN 50360: 2017 EN 50361:2001 EN 50360:2017 EN50383:2010*</p> <p>EN 50385:2017 EN 50401:2017</p> <p>EN 62209-1 :2006 IEC 62209-1:2016 IEC/EN 62209-2: 2010 IEC 62209-2:2010/A1:2019 IEC 62209-2:2019 CSV</p> <p>IEEE 1528- 2013 IEC/IEEE P62209-1528:2019 D4 DRAFT (Note 2 below)</p> <p>EN 50566: 2017 EN 50665: 2017 IEC/EN 62311: 2008 RSS 102 Issue 5 March 2015 OET Bulletin 65 Supplement C Edition 01-01 (June 2001)</p> | BS |

(1) This scope aims to address only the Reference method for near- field testing of each antenna region and does not cover the Alternative methods of near-field testing of base stations using EM field measurements



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| ⁽²⁾ This scope aims to address only Section 7.6: Time-period averaged SAR considerations and R4: Time-period averaged SAR. | | | |
| | 3 SAR & RF Exposure (cont'd) 3.2 RF Exposure 9 kHz to 10 MHz Magnetic and Electric Field (Near Field) Nerve Stimulation (Stimulation and Thermal Effects) | IEC 62369-1:2008 IEC EN 62311:2008 IEC TR 62905:2018 SPR-002 Issue 1 KDB 680106 D01 | BS |
| Bluetooth Devices | 4 Bluetooth Tests 4.1 RF Transmitter, Transceiver and Receiver Tests 4.2 Protocol and Profile Tests | Bluetooth Specification (v4.2 to 5.2) - RF - RF PHY Bluetooth Specification (v4.2 to 5.2) Vol. 3 , Part E and Vol. 6, Part B - GAP - SM - L2CAP - GATT - ATT - SDP - HCL - LL Traditional Profiles: 1 GATT-Based Profiles & Services: 1 | BS |



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| Security of IT Products and Systems | <p>5 Electrical Safety</p> <p>5.1 Information Technology Equipment</p> | <p>EN60950-1 2006/A2:2013 Information Technology Equipment – Safety- Part 1: General Requirements</p> <p>Clause 1.6, 1.7</p> <p>2.1, 2.2 2.3 (<i>Excluding 2.3.5</i>) 2.4, 2.5 2.6, 2.7 2.8 (<i>excluding 2.8.5, 2.8.7.3</i>) 2.9 2.10 (<i>excluding 2.10.3.9, 2.10.4.2, 2.10.5.5, 2.10.7, 2.10.8.4, 2.10.9, 2.10.10, 2.10.11.</i>)</p> <p>3.1 3.2 (<i>Excluding 3.2.5.1(flexing test)</i>) 3.3 3.4 3.5</p> <p>4.1 4.2 (<i>Excluding 4.2.8</i>) 4.3 (<i>Excluding 4.3.10, 4.3.12, 4.3.13</i>) 4.4 4.5 (<i>Excluding three phase systems</i>)4.6 (<i>Excluding 4.6.2(Annex A3 test)</i>) 4.7 (<i>Excluding 4.7.3</i>)</p> <p>5.1 (<i>Excluding three phase systems</i>) 5.2 5.3 (<i>Excluding 5.3.6</i>)</p> <p>6.1, 6.2, 6.3 (<i>excluding testing</i>)</p> <p>7.1, 7.2 7.3, 7.4 (<i>excluding testing</i>) <i>Excluding Annex's A, H, M, N, S, U, AA, CC, EE</i></p> | BS |



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| Audio/video, information and communication technology equipment | Electrical safety | IEC 62368-1 Edition 2.0 2014-02 BS EN 62368-1:2014+A11:2017 Excluded : Clause 4.7 But Including – Momentum Test 5.4.1.4, 9.2.5, Annex E For 3-phase Equipment 5.4.1.5.3 5.4.1.10.2 5.4.2, 5.4.3, 5.4.4, tracking index and mandrel Test 5.4.7 5.5.2.2 Tests to g.16 for ICX components 5.6.4.1 Tests too Annex R Clause 10 Annex B.2.5 Poly phase Annex C Annex G.5.4.8 Annex G.7 Flexing Test Annex G.8.3.2 Annex G.9 Annex G.10 Annex G.13.6.2 Annex G.13.6.2 Annex G.14 Annex G.15 Annex G.16 Annex H Annex J Annex M.7 Annex M.8.2 Annex. P.4 Annex R Annex S Annex U Annex DVA Annex DVB Annex DVC Annex DVI Annex DVJ | BS |



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| Audio/video, information and communication technology equipment | Electrical Safety | IEC 62368-1 Edition 3.0 2018-10 BS EN IEC 62368-1:2020+A11:2020 Excluded : Clause 4.7 Including – Momentum Test 5.4.1.5.3 5.4.1.10.2 5.4.2, 5.4.3, 5.4.4, - tracking index and mandrel Test 5.4.7 5.4.12 5.5.2.2 Tests to g.16 for ICX components 5.6.4.1 Tests to Annex R 5.7.9DV.1 6.3.1 6.4.8.2 6.4.8.3.3 6.4.8.3.4 8.5.4.3.4 9.6 Clause 10 Annex B.2.5 Poly phase Annex G.3 Annex G.5.2 Annex G 5.3.4.5 Annex G 5.3.4.6 Annex G.5.4.8 Annex G.7 Flexing Test Annex G.8.1 Annex G.8.3.2 Annex G.9 Annex G.10 Annex G.13.6.2 Annex G.13.6.2 Annex G.14 Annex G.15 Annex G.16 Annex H Annex J Annex M.7 Annex M.8.2 Annex. P.4 Annex R | BS |



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|---|---|--|---------------|
| Audio/video, information and communication technology equipment | Electrical Safety | Annex S Annex U Annex Y Annex DVA Annex DVB Annex DVC Annex DVI Annex DVJ | BS |
| Audio/video, information and communication technology equipment | Electrical Safety | BS EN IEC 62368-3:2020 | BS |



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| Medical Electrical Equipment | 5.2 Medical electrical equipment | <p>IEC 60601-1: 1988/AMD2:1995/COR1:1995 (Revised) Excluded: cl. 29 – X-Radiation Test cl. 44.6 – Harmful ingress of liquids test cl. 59.2 c) - Oxygen Aging for Rubber Insulation Parts</p> <p>IEC60601-1:2005 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> <p>EN 60601-1:2006 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|------------------------------|---|---|---------------|
| Medical Electrical Equipment | 5.2 Medical electrical equipment (cont'd) | IEC 60601-1: 2005/AMD1:2012/COR1:2014 (Revised) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) EN 60601-1:2006/A1:2013/A12:2014 (Active) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|------------------------------|---|--|---------------|
| Medical Electrical Equipment | 5.2 Medical electrical equipment (cont'd) | <p>IEC 60601-1:2005/AMD2:2020 (Active) Excluded: cl. 8.8.4.2 Oxygen Aging for Rubber Insulation Parts cl. 9.5.2 Cathode Ray Tubes cl. 10.1.1 X-radiation cl. 11.2.2 Oxygen enriched atmospheres cl. 11.3 Constructional requirements for fire ENCLOSURES of ME EQUIPMENT (excluded are only tests according to IEC 60695-11-10) cl. 11.6.5 Harmful Ingress (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X)</p> <p>IEC60601-1-6:2010 edition 2.0 (Revised) IEC60601-1-6:2010 edition 3.0 (Revised) IEC60601-1-6: 2010/AMD1:2013 edition 3.1 (Revised) EN 60601-1-6:2010+A1:2015 (active) IEC 60601-1-6:2010/AMD2:2020 Edition 3.2 (Active)</p> <p>IEC60601-1-8:2006/AMD1:2012 edition 2.1 (Revised) EN 60601-1-8:2007+A1:2013 (Active)</p> <p>IEC 60601-1-8:2006/AMD1:2012/AMD2:2020 edition 2.2 (Active)</p> | |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| Measurement, control and laboratory use equipment | 5.3 Measurement, control and laboratory use equipment | <p>IEC 61010-1:2001/COR2:2003 Edition 2 (Revised) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p> <p>IEC 61010-1:2010 Edition 3 (Revised) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p> <p>IEC 61010-1:2010/AMD1:2016/COR1:2019 Edition 3.1 (Active) EN 61010-1:2010+A1:2019 (Active) Excluded : cl. 11.6 Specially protected equipment: (excluded only Water and Dust tests – IPX1 – IPX 9, IP5X, IP6X) cl. 12.2.1 Ionizing Radiation Measurement Test cl. 12.4 Microwave Radiation Measurement Test cl. 12.5.2 Ultrasonic Pressure Measurement Test</p> | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| Measurement, control and laboratory use equipment | 5.3 Measurement, control and laboratory use equipment (cont'd) | IEC61010—2-030:2010 Edition 1.0 (Revised) IEC61010—2-030:2017 Edition 2.0 (Active) EN 61010-2-030:2010 (Active) IEC61010-2-010:2003 Edition 2.0 (Revised) IEC61010-2-010:2014 Edition 3.0 (Revised) IEC61010-2-010:2019 Edition 4.0 (Active) EN 61010-2-010:2020 (Active) IEC61010-2-011:2016 Edition 1.0 (Active) Excluded: 11.7.104.3 Leakage test for FLAMMABLE REFRIGERANT 11.7.104.4 Scratch test for protected cooling systems 11.7.104.5 Unprotected cooling systems 11.7.104.6 Stagnation of leaked FLAMMABLE REFRIGERANT EN 61010-2-011:2017 (Active) Excluded: 11.7.104.3 Leakage test for FLAMMABLE REFRIGERANT 11.7.104.4 Scratch test for protected cooling systems 11.7.104.5 Unprotected cooling systems 11.7.104.6 Stagnation of leaked FLAMMABLE REFRIGERANT IEC61010-2-081:2015 edition 2.0 (Revised) IEC61010-2-081:2019 Edition 3.0 (Active) EN 61010-2-081:2020 (Active) IEC61010-2-091:2019 edition 2.0 (Active) EN 61010-2-091:2012 (Active) | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|---|---------------|
| Measurement, control and laboratory use equipment | 5.3 Measurement, control and laboratory use equipment (cont'd) | IEC61010-2-101:2015 Edition 2.0 (Revised) IEC61010-2-101:2018 Edition 3.0 (Revised) EN 61010-2-101:2017 (Active) IEC61010-2-201:2013 Edition 1.0 (Revised) IEC61010-2-201:2017 Edition 2.0 (Active) EN 61010-2-201:2018 (Active) | BS |



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Table 7a : FCC SCOPE OF ACCREDITATION

| 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 | BS, D |
| 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) | BS, D |
| INTENTIONAL RADIATORS FCC Part 15, Subpart C | Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 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 | BS |
| UNLICENSED PERSONAL COMMUNICATIONS 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 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|---|---|---------------|
| 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 KDB Publication 789033 | BS |
| UNLICENSED NATIONAL INFORMATION 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 FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v01 (April 8, 2016) | BS |
| 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 | BS |
| 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 | BS |
| WHITE SPACE DEVICE INTENTIONAL RADIATORS FCC Part 15, Subpart H | Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard | ANSI C63.10-2013 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|--|--|---------------|
| 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 (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) KDB Publication 971168 | BS |
| GENERAL MOBILE RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 22 (cellular) FCC Part 90 (non-microwave) FCC Part 95 FCC Part 97 FCC Part 101 (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 (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) | BS |
| 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 (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) KDB Publication 971168 | BS |
| MARITIME AND AVIATION RADIO SERVICES (FCC LICENSED RADIO SERVICE EQUIPMENT) FCC Part 80 FCC Part 87 | Radiated Tests 9 kHz to 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard | ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|--|--|--|---------------|
| 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 200 GHz Conducted Tests 9 kHz to 200 GHz Radio tests as per standard | ANSI/TIA-603-E (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) | BS |
| 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 (Excluding Clauses: 2.1, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.15, 2.2.18, 2.3 & 2.4) | BS |
| RF EXPOSURE Devices subject to SAR Requirements | Specific Absorption Rate 450 MHz to 6 GHz Using the DASY 5 & DASY 6 systems | IEEE Std 1528™ -2013 KDB Publication 865664 KDB Publication 447498 | BS |



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Table 7b: 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 5:2018 ANSI C63.4:2014 ANSI C63.10:2013 ANSI C63.26:2015 | BS |
| Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus | RF Exposure Specific Absorption Rate 450 MHz to 6 GHz | RSS-102 Issue 5 SAR | BS |
| Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus | RF Exposure RF Exposure Evaluation | RSS-102 Issue 5 RF Exposure Evaluation | BS |
| Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus | RF Exposure 9 kHz to 10 MHz Nerve Stimulation | RSS-102 Issue 5 SPR-002 Issue1 | BS |
| 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 | BS |
| 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 | BS |
| 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 | BS |



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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 | BS |
| Zone Enhancers | Conducted and Radiated Tests 9 kHz to 40 GHz | RSS-131 Issue 3, updated May 2017 | BS |
| 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 3, Updated January 2013 | BS |
| 2 GHz Personal Communications Services | Conducted and Radiated Tests 9 kHz to 40 GHz | RSS-133 Issue 6, January 2013 Updated January 2018 Amendment January 2018 | BS |
| 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 | BS |
| Advanced Wireless Services Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz | Conducted and Radiated Tests 9 kHz to 40 GHz | RSS-139 Issue 3, July 2015 | BS |
| 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 | BS |
| 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 3, July 2015 | BS |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---------------|
| 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 40 GHz | RSS-191 Issue 3, April 2008 | BS |
| 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 | BS |
| Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz | Conducted and Radiated Tests 9 kHz to 40 GHz | RSS-199 Issue 3, December 2016 | BS |
| Licence-Exempt Radio Apparatus: Category I Equipment | Conducted and Radiated Tests 9 kHz to 200 GHz | RSS-210 Issue 10, December 2019 | BS |
| Wireless Power Transfer Devices | Laboratory measurement facilities / AC mains conducted emissions and radiated emissions / Measurement range 0.009 MHz to 1000 MHz | RSS-216 Issue 2, Amendment 1, September 2020 ICES-001 Issue 5, July 2020 | BS |
| Ultra-Wideband (UWB) Technology | Conducted and Radiated Tests 9 kHz to 40 GHz | RSS-220 Issue 1, March 2009 (Amendment July 2018) | BS |



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|--|---|--|---------------|
| 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 2:2017 with DFS testing | BS |
| END | | | |