

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS TESTING 1909 Accredited to ISO/IEC 17025:2017	Environmental Test Services Ltd	
	Issue No: 026 Issue date: 12 February 2026	
	Unit 38 Suttons Business Park Suttons Park Avenue Reading Berkshire RG6 1AZ	Contact: Mr Steve Abraham Tel: +44 (0)118 9662724 Fax: +44 (0)118 9669023 E-Mail: steve@etsonline.co.uk Website: www.etsonline.co.uk
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to BS EN ISO/IEC17025:2017 for testing activities in accordance with the standards listed in the schedule. 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.

Information about flexible scopes of accreditation is available in UKAS document GEN4.



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<p>AEROSPACE COMPONENTS AND EQUIPMENT BATTERIES AND CELLS CIRCUIT BREAKERS AND SWITCHES COATINGS: METALLIC COATINGS: NON-METALLIC COMPUTERS AND PERIPHERALS ELECTRICAL/ELECTRONIC COMPONENTS, CONNECTORS AND PRODUCTS ELECTRICAL CABLES ELECTRO-MECHANICAL DEVICES ENCLOSURES FOR ELECTRICAL</p> <p>EQUIPMENT FANS FASTENERS HOSES, PIPES AND TUBES INSTRUMENTS: INDICATING/RECORDING INSULATION MATERIALS: ELECTRICAL IT EQUIPMENT LUMINAIRES MARINE EQUIPMENT MEASURING EQUIPMENT MICRO-ELECTRONIC CIRCUITS AND COMPONENTS MISSILE COMPONENTS MOTOR VEHICLE ACCESSORIES AND COMPONENTS OFFICE EQUIPMENT: ELECTRICAL OPHTHALMIC PRODUCTS: OPTICAL OPTICAL FIBRE PACKAGES AND PACKAGING MATERIALS PAINTS AND VARNISHES PLUGS AND SOCKETS: ELECTRICAL POWER SUPPLIES:</p>	<p>ENVIRONMENTAL TESTS (non-explosive items)</p> <p>1 CLIMATIC</p> <p>1.1 HIGH TEMPERATURE - -Constant Max temp: +200°C Max chamber size: 0.47 m x 0.65 m x 0.4 m</p> <p>- Constant/Cyclic Max temp: +175°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high)</p> <p>Max temp: +70°C Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)</p> <p>1.2 LOW TEMPERATURE</p> <p>- Constant/Cyclic Min temp: -70°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high)</p> <p>Min temp: -40°C Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)</p>	<p>BS 2011:B:1977(1980) BS EN 60068-2-2:1993 Tests Ba, Bb, Bd (forced air circulation, Methods A and B) BS EN 60068-2-2:2007 IEC 60068-2-2:1974 IEC 60068-2-2:2007 DEF STAN 07-55:1975 Tests B1, B2 DEF STAN 00-35:2006,Pt3,Issue4 Test CL1 / CL2 DEF-STAN 00-035 Part 3 Issue 5 – Test CL2 ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 501.3 MIL-STD-810F:2000 Method 501.4 MIL-STD-810G:2008 Method 501.5 MIL-STD-810G:2014 w/Ch1 Method 501.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.5.3, 4.5.4, 4.5.5, 5.3.1 RTCA DO-160G</p> <p>BS 2011:A:1990 BS EN 60068-2-1:1993 Tests Aa, Ab, Ad (forced air Circulation, Methods A and B) BS EN 60068-2-1:2007 IEC 68-2-1:1990 IEC 60068-2-1:1993 IEC 60068-2-1:2007 DEF STAN 07-55:1975 Tests B4, B5 DEF STAN 00-35:2006,Pt3,Issue4 Test CL4 / CL5 DEF-STAN 00-035 Part 3 Issue 5 – Test CL5</p>



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<p>Continued from Page 2</p> <p>ELECTRICAL PRINTED CIRCUIT BOARDS RADAR EQUIPMENT RADIO AND TV EQUIPMENT</p> <p>SATELLITES AND SUB-ASSEMBLIES SECURITY DEVICES AND ALARMS SMOKE DETECTORS SONAR EQUIPMENT TELECOMMUNICATION EQUIPMENT TRANSFORMERS: ELECTRICAL WEAPONS AND SUB-ASSEMBLIES</p>	<p>ENVIRONMENTAL TESTS</p> <p>1 CLIMATIC (cont'd)</p> <p>1.2 LOW TEMPERATURE (cont'd)</p> <p>1.3 CHANGE OF TEMPERATURE</p> <p>- Single chamber (cyclic) Temp range: -70°C to +150°C Max rate of change: 10°C/min Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>Temp range: -70°C to +150°C Max rate of change: 3°C/min Max chamber size: (Walk-In) 1.8 m x 2.4 m x 2.4 m (high)</p> <p>- Manual transference (2 chambers) Temp range: -70°C to +175°C Max chamber size: 1.0 m x 1.1 m x 1.0 m (high) Temperature/humidity cyclic</p>	<p>ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 502.3 MIL-STD-810F:2000 Method 502.4 MIL-STD-810G:2008 Method 502.5 MIL-STD-810G:2014 w/Change 1 Method 502.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 4.5.1, 5.3.1 RTCA DO-160G</p> <p>BS 2011:N:1985(1987) Tests Na, Nb BS EN 60068-2-14:2000 Withdrawn BS EN 60068-2-14:2009 Withdrawn BS EN 60068-2-14:2023 IEC 60068-2-14:1984 IEC 60068-2-14:2009 DEF STAN 07-55:1975 Test B14 (Proc A) DEF STAN 00-35:2006,Pt3,Issue4 Test CL14 MIL-STD-810E:1989(1990) Method 503.3 MIL-STD-810F:2000 Method 503.4 MIL-STD-810G:2008 Method 503.5 MIL-STD-810G:2014 w/Change 1 Method 503.6 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 5.3.1, 5.3.2, 5.3.3 RTCA DO-160G</p>



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As listed on Pages 2 and 3	<p>ENVIRONMENTAL TESTS (cont'd)</p> <p>2 DYNAMIC</p> <p>2.1a VIBRATION - Sinusoidal (ambient temperature)</p> <p>Electromagnetic Vibrator System 1 Slip-table (600mm x 600mm) Freq range: 5 to 3000 Hz Peak thrust: 13.3 kN Max pk/pk displacement: 25 mm</p> <p>Electromagnetic Vibrator System 3 Freq range: 5 to 3000 Hz Peak thrust: 15 kN Max pk/pk displacement: 50mm</p> <p>Electromagnetic Vibrator System 4 Freq range: 10 to 2000 Hz Peak thrust: 28 kN Max pk/pk displacement: 25mm</p> <p>2.1b VIBRATION - Sinusoidal (combined with temperature)</p> <p>Electromagnetic Vibrator System 2 Head Expander (440mm x 440mm) Freq range: 5 to 3000 Hz Peak thrust: 13.3 kN Max pk/pk displacement: 25mm</p> <p>Temp range: -50°C to +125°C Max rate of change: 10°C/min Chamber size: 0.7 m x 0.7 m x 0.7 m</p> <p>General Note: Consideration of the above systems maximum acceleration is dependant on load and frequency</p>	<p>BS 2011:Fc:1983(1986) BS 2011:Z/AFc:1984 BS 2011:Z/BFc:1984 BS EN 60068-2-6:1996 BS EN 60068-2-6:2008 BS EN 60068-2-50:2000 BS EN 60068-2-51:2000 IEC 68-2-6:1982 IEC 60068-2-6:2007 IEC 60068-2-50:1983 IEC 60068-2-51:1983 DEF STAN 07-55:1975, Test A1 DEF STAN 00-35:2006,Part 3,Issue 4 Test M1 DEF STAN00-035: 2017, Part 3, Issue 5, Test M1 ETSI EN 300 019 Part 2.1: 2014 MIL-STD-108E:4.3:1966 MIL STD 810E:1989 Method 514.4 MIL-STD-810F:2000 Method 514.5 MIL-STD-810G:2008 Method 514.6 MIL-STD-810G:2014 w/Change 1 Method 514.7 MIL_STD_810H:2019 Method 514.8 CN1 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 8.5.1, 8.7.1 RTCA DO-160G</p>



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As listed on Pages 2 and 3	<p>ENVIRONMENTAL TESTS (cont'd)</p> <p>2 DYNAMIC (cont'd)</p> <p>2.2a VIBRATION – Mixed Mode (ambient temperature)</p> <p>Vibration can be applied using all of the four vibrator systems described above with some consideration to thrust derating.</p> <p>Vibration types:</p> <ul style="list-style-type: none"> - Broad Band Random - Sine on Random (Fixed/ Swept sine tones) - Random on Random (Fixed/Swept narrow bands) - Simulated Gunfire <p>2.2b VIBRATION – Mixed Mode (combined with temperature)</p> <p>As above using:- Electromagnetic Vibrator System 2 Temp range: -50°C to +125°C</p>	<p>BS 2011:Fd:1973(1984) BS EN 60068-2-64:1995 BS EN 60068-2-64:2008 BS EN 60068-2-64:2019</p> <p>IEC 68-2-34:1973 IEC 68-2-64:1973 IEC 60068-2-64:1993 IEC 60068-2-64:2008 DEF STAN 07-55:1975, Test A2 DEF STAN 00-35:2006 Pt3, Issue 4, Chap 2-01, Test M1 DEF STAN 00-035, issue 5</p> <p>ETSI EN 300 019 Part 2.1: 2014 ETSI EN 300 019 Part 2.2: 2013 ETSI EN 300 019 Part 2.7: 2003 MIL-STD-810E:1989(1990) Method 514.4 MIL-STD-810F:2000 Method 514.5 MIL-STD-810G:2008 Method 514.6 MIL-STD-810G:2014 w/Change 1 Method 514.7 MIL STD 810H Method 514.8</p> <p>MIL-STD-810E:1989(1990) Method 519.4 (Gunfire) MIL-STD-810F:2000 Method 519.5 MIL-STD-810G:2008 Method 519.6 MIL-STD-810G:2014 w/Change 1 Method 519.7 RTCA DO-160D RTCA DO-160E RTCA DO-160F para 8.5.2, 8.7.2, 8.8 RTCA DO-160G</p>



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