


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0066 Accredited to ISO/IEC 17025:2017	MBDA UK Limited	
	Issue No: 034 Issue date: 10 November 2021	
	Environmental Engineering Department PB 500 PO Box 19 Six Hills Way Stevenage Hertfordshire SG1 2DA	Contact: Mr J Sumner Tel: +44 (0)1438 753747 E-Mail: john.sumner@mbda-systems.com
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Environmental Engineering Department PB 500 PO Box 19 Six Hills Way Stevenage Hertfordshire SG1 2DA	Local contact Mr J Sumner	Environmental testing (Non-explosive items) Structural testing (Non-explosive items)	S
Address Bedford Road Henlow SG16 6EB	Local contact Mr J Sumner	Environmental testing (Explosive items)	H



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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
<p>AEROSPACE STRUCTURES MATERIALS AND EQUIPMENT</p> <p>SATELLITES AND SUBASSEMBLIES</p> <p>MISSILES AND MISSILE COMPONENTS</p> <p>WEAPONS AND SUBASSEMBLIES</p> <p>MOTOR VEHICLE, ACCESSORIES AND COMPONENTS</p> <p>AGRICULTURAL EQUIPMENT</p> <p>MARINE EQUIPMENT</p> <p>MINING EQUIPMENT</p> <p>ELECTRO-MECHANICAL DEVICES</p> <p>ELECTRICAL/ELECTRONIC PRODUCTS AND COMPONENTS</p> <p>COMPUTERS AND PERIPHERALS</p>	<p>ENVIRONMENTAL TESTS</p> <p>(NON-EXPLOSIVE ITEMS)</p> <p>Climatic</p> <p><u>High temperature - Low humidity</u></p> <p>- constant and cyclic (Lowest humidity 14 % rh)</p> <p>Max temp: + 150 °C Max chamber size: 2.7 m x 0.9 m x 1.0 m Working space: 2.55 m x 0.75 m x 0.85 m</p> <p>Max temp: + 130 °C Max chamber size: 7.3 m x 3.0 m x 3.3 m</p> <p>Working space: 6.8 m x 2.5 m x 2.8 m</p> <p>Max temp: + 70 °C Max chamber size: 9.1 m x 4.5 m x 4.5 m Working space: 8.6 m x 4.1 m x 4.1 m</p> <p><u>High temperature</u> - solar radiation</p> <p>(thermal effects only)</p> <p>Bandwidth: 0.4 μm - 3 μm Max irradiance: 1140 W/m² Max chamber size: 9.1 m x 4.5 m x 4.5 m Working space: 8.1 m x 3.6 m x 3.1 m high</p>	<p>BS EN 60068-2-2:2007 Test B</p> <p>DEF-STAN 07-55:1975 Test B1</p> <p>DEF-STAN 00-35/3 Tests CL1, CL2</p> <p>DEF-STAN 00-035 Pt3 Is5 Tests CL1, CL2</p> <p>DEF-STAN 81-41/3 Test C</p> <p>MIL-STD-810G:2014 Method 501.6</p> <p>RTCA/DO-160E Section 5 - Cyclic</p> <p>STANAG 4370 AECTP 300 Method 302.</p> <p>DEF-STAN 07-55:1975 Test B3</p> <p>DEF-STAN 00-35/4 Test CL2, CL3</p> <p>DEF-STAN 00-035 Pt3 Is5 Test CL2, CL3</p> <p>MIL-STD-810G:2014 Method 505.6</p> <p>DEF-STAN 81-41/4 Test N</p>	<p>S</p>



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Continued from Page 1 RADAR EQUIPMENT DOMESTIC APPLIANCES PACKAGES AND PACKAGING MATERIAL FIRE PROTECTION EQUIPMENT TELECOMMUNICATIONS EQUIPMENT ACOUSTIC MATERIALS TRANSPORT EQUIPMENT VEHICLES	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>Climatic (cont'd)</p> <p><u>Low temperature</u> - constant and cyclic</p> <p>Min temp: - 60 °C Chamber size: 1.35 m x 1.2 m x 0.74 m</p> <p>Working space: 1.2 m x 1.05 m x 0.59 m Min temp: - 60 °C Max chamber size: 7.3 m x 3 m x 3.3 m high</p> <p>Working space: 6.8 m x 2.5 m x 2.8 m Min temp: - 46 °C Max chamber size: 9.1 m x 4.5 m x 4.5 m Working space: 8.6 m x 4.0 m x 4.0 m</p> <p><u>Thermal shock</u> - two chambers - manual transference</p> <p>Max temp: + 150 °C Min temp: - 60 °C (for chamber sizes, see above)</p>	<p>BS EN 60068-2-1:2007 Test A</p> <p>DEF-STAN 07-55:1975 Test B4 DEF-STAN 00-35/3 Tests CL4, CL5 DEF-STAN 00-035 Pt3 Is5 Test CL5 MIL-STD-810G:2014 Method 502.6 RTCA/DO-160E Section 4 - Constant Section 5 - Cyclic DEF-STAN 81-41/4 Test G STANAG 4370 AECTP 300 Method 303</p> <p>BS EN 60068-2-14:2009 BS 3G100:Part 2 Subsect 3.15:1978(1983) Category B only DEF-STAN 07-55:1975 Test B14 DEF-STAN 00-35/3 Test CL14 DEF-STAN 00-035 Pt3 Is5 Test CL14 MIL-STD-810G:2014 Method 503.6 STANAG 4370 AECTP 300 Method 304</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>Climatic (cont'd)</p> <p><u>High temperature - High humidity</u> - constant and cyclic</p> <p>Temp range: + 20 °C to + 71 °C</p> <p>Humidity range: 20 % RH to 98 % RH</p> <p>Max chamber: 7.3 m x 3.0 m x 3.3 m</p> <p>Working space: 6.8 m x 2.5 m x 2.8 m high</p> <p><u>Rapid pressure change</u></p> <p>Max rates of change - climb: sea level to 350 mb (8120 m) in 2.5 s</p> <p style="padding-left: 40px;">decompression: 350 mb to sea level in 5 s</p> <p>Chamber size: 0.7 m (long) x 0.15 m (diameter)</p>	<p>BS 2011:Ca:1977</p> <p>BS EN 60068-2-66:1995 BS 2011:Db:1981 BS EN 60068-2-67:1996 DEF-STAN 07-55:1975 Test B6 and B7 DEF-STAN 00-35/3 Tests CL6, CL7, CL8 DEF-STAN 00-035 Pt3 Is5 Tests CL6 DEF-STAN 81-41/3 Test B MIL-STD-810G:2014 Method 507.6 RTCA/DO-160E Section 4 Section 6 STANAG 4370 AECTP 300 Method 306</p> <p>DEF-STAN 07-55:1975 Test B9 DEF-STAN 00-35/3 Test CL9 (Rapid Decompression only), CL20, CL21 DEF-STAN 00-035 Pt3 Is5 CL9 (Decompression) DEF-STAN 00-3/3 Section F, Para 34.8 MIL-STD-810G:2014 Method 500.5, Procedure III</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd) Climatic (cont'd)</p> <p><u>Overpressure</u></p> <p>Max pressure: 205 kPa Chamber size: 0.6m (long) x 0.15 m (dia)</p> <p><u>Drip Proof</u></p> <p>Drip tray: 0.61 m x 0.61 m area</p> <p><u>Icing/Frosting</u></p> <p>Min temp: - 46 °C Max wind speed: 40 kts Max chamber size: 8.5 m x 3.6 m x 3.2 m</p> <p><u>Salt Fog</u></p> <p>Chamber size: 1.8 m x 0.7 m x 0.7 m Working space: 1.65 m x 0.55 m x 0.55 m</p>	<p>DEF-STAN 00-35/3 Test CL15 DEF-STAN 00-035 Part 3 Issue 5 Test CL15 RTCA/DO-160E Section 4 BS 3G100:Part 2 Subsect 3.11:1973(1983) DEF-STAN 07-55:1975 Test D4 DEF-STAN 00-35/3 Test CL28 DEF-STAN 00-035 Pt3 Is5 Test CL28 MIL-STD-810G:2014 Method 506.6 Procedure III RTCA/DO-160E Section 10</p> <p>DEF-STAN 07-55:1975 Test B10 DEF-STAN 00-35/3 Test CL10, CL24 DEF-STAN 00-035 Pt3 Is5 Test CL10, CL24 (Thaw) MIL-STD-810G:2014 Method 521.4 RTCA/DO-160D Section 24 STANAG 4370 AECTP 300 Method 311</p> <p>DEF-STAN 00-35/3 Test CN2 DEF-STAN 00-035 Pt3 Is5 Test CN2 MIL-STD-810G:2014 Method 509.6 RTCA/DO-160D Section 14 STANAG 4370 AECTP 300 Method 309 Procedure 1</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>Climatic (cont'd)</p> <p><u>High temperature - Low pressure</u></p> <p>Max temp: + 130 °C Max equiv altitude: 22 860 m Max chamber size: 7.3 m x 3.0 m x 3.3 m high Working space: 6.8 m x 2.5 m x 2.8 m</p> <p><u>Low temperature - Low pressure</u></p> <p>Min temp: - 60 °C Max equiv altitude: 22 860 m Max chamber size: 7.3 m x 3.0 m x 3.3 m Working space: 6.8 m x 2.5 m x 2.8 m</p>	<p>BS 3G100:Part 2</p> <p>Subsect 3.2:1970(1983) DEF-STAN 07-55:1975 Test B11 DEF-STAN 00-35/3 Test CL11 DEF-STAN 00-035 Pt3 Is5 Test CL11 MIL-STD-810G:2014 Method 500.6, Procedures I and II RTCA/DO-160E Section 4 MIL-STD 810D Method 520.0</p> <p>BS 3G100:Part 2</p> <p>Subsect 3.2:1970(1983) DEF-STAN 07-55:1975 Test B12 DEF-STAN 00-35 Pt3 Is4 Test CL12 DEF-STAN 00-035 Pt3 Is5 Test CL12 MIL-STD-810G:2014 Method 500.6, Procedures I and II RTCA/DO-160E Section 4</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd) Dynamic (cont'd)</p> <p>(b) with temperature</p> <p>Freq range: 5 to 3000 Hz Peak thrust (sinusoidal): 101 kN RMS thrust (random): 89 kN Max accel: 200 g Max temp: + 90 °C Min temp: - 60 °C Chamber size (max): 7.3 m x 3.0 m x 3.3 m high Working space: 6.8 m x 2.5 m x 2.8 m</p> <p>(c) with altitude and temperature</p> <p>Freq range: 5 to 3000 Hz</p> <p>Peak thrust (sinusoidal): 89 kN RMS thrust (random): 89 kN Max accel: 100g</p> <p>Max equiv altitude: 22 860 m Max temp: + 90 °C Min temp: - 60 °C Chamber size: 7.3 m x 3.0 m x 3.3 m Working space: 6.8 m x 2.5 m x 2.8 m</p>		S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd) Dynamic (cont'd)</p> <p><u>Modal Testing</u></p> <p>Measurement, in support of Modal Analysis, of: force displacement velocity acceleration mechanical strain resonance search frequency response</p> <p><u>Shock</u> ½ sine trapezoidal sawtooth</p> <p>(a) free fall - with temperature</p> <p>Max drop ht: 1.76 m Max severity: 600 g Max duration: 65 ms Max item mass: 1134 kg Max item size: 3.0 m x 0.65 m dia</p> <p>(b) accelerated fall - ambient temperature Severity range: 33 to 10 000 g 35 ms to 0.1 ms Max item mass: 30 kg Max item size: 0.2 m x 0.2 m x 0.2 m</p> <p>(c) vibrator induced - with combined environments</p>	<p>Documented In-House Procedure No 22 ANSI S2.31:1979</p> <p>ANSI S2.32:1982 ANSI S2.34:1984</p> <p>BS EN 60068-2-32 BS EN 60068-2-27:2009 DEF-STAN 07-55:1975 Test A3 and A9 DEF-STAN 00-35/3 Test M3, M5 DEF-STAN 00-035 Pt3 Is5 Test M3, M5 MIL-STD-810G:2014 Method 516.7 RTCA/DO-160E Section 7 STANAG 4370 AECTP 400-3 Method 403</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>Dynamic (cont'd)</p> <p><u>Shock</u> (cont'd)</p> <p>Also synthesised shock signatures duplicating measured conditions</p> <p>Max severity: 500 g Max item mass: 900 kg</p> <p>Also Shock Response Spectra (SRS)</p> <p>For available combined environments see 'climatic' entries</p> <p><u>Bump</u> - vibrator induced - with combined environments</p> <p>Max severity: 100 g Max item mass: 2000 kg</p> <p>For available combined environments see 'climatic' entries</p> <p><u>Drop and Topple</u> - with temperature</p> <p>Max item mass: 1000 kg Max temp: + 70 °C Min temp: - 40 °C Chamber size: 9.1 m x 4.5 m x 4.5 m high Drop plate: 3.07 m x 1.17 m</p>	<p>BS EN 60068-2-27: 2009 DEF-STAN 07-55:1975 Test A5 DEF-STAN 00-35/3 Test M12 DEF-STAN 00-035 Pt3 Is5 Test M3 DEF STAN 81-41/3 Test S</p> <p>BS EN 60068-2-31:2009 DEF-STAN 07-55:1975 Test A4 DEF-STAN 00-35 Pt3 Is4 Test M4 DEF-STAN 00-035 Pt3 Is5 Test M4 DEF-STAN 81-41/3 Test Q STANAG 4370 AECTP 300 Method 414</p>	S



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>Dynamic (cont'd)</p> <p><u>Free Fall - impact test</u> - with temperature</p> <p>Max drop height: 2.5 m Max item mass: 1100 kg Max temp: + 70 °C Min temp: - 40 °C Chamber size: 9.1 m x 4.5 m x 4.5 m high Drop plate: 3.07 m x 1.17 m</p> <p><u>Acceleration</u> - steady state - with temperature (- 51 °C up to + 100 °C)</p> <p>Max accel: 0.5 g to 150 g Max radius: 0.76 m Max item mass (at max g): 7.3 kg Max item size: 0.23 m x 0.23 m x 0.23 m</p>	<p>BS EN 60068-2-31: 2009 Procedure 1 DEF-STAN 07-55:1975 Test A9 DEF-STAN 00-35/3 Test M5 DEF-STAN 00-035 Pt3 Is5 Test M5 DEF-STAN 81-41/3 Test E STANAG 4370 AECTP 400 Method 414</p> <p>BS 2011:Ga:1984 DEF-STAN 07-55:1975 Test A6 DEF-STAN 00-35/Pt3 Is4 Test M13 DEF-STAN 00-035/ Pt3 Is5 Test M13 MIL-STD-810G:2014 Method 513.7 STANAG 4370 AECTP 400 Method 404</p>	S



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<p>AEROSPACE STRUCTURES, MATERIALS AND EQUIPMENT</p> <p>SATELLITES AND SUBASSEMBLIES</p> <p>MOTOR VEHICLE ACCESSORIES AND COMPONENTS</p> <p>ELECTRO-MECHANICAL DEVICES</p> <p>HYDRAULIC EQUIPMENT</p> <p>PACKAGING AND PACKAGING MATERIALS</p> <p>RADAR EQUIPMENT</p> <p>TELECOMMUNICATION EQUIPMENT</p> <p>ACOUSTIC MATERIALS</p>	<p>STRUCTURAL TESTS</p> <p>(NON-EXPLOSIVE ITEMS)</p> <p><u>Structural/Fatigue</u></p> <p>Test Frame Max static/dynamic: 200 kN force</p> <p>Schenck tension/compression machines</p> <p>Max static/dynamic: 160 kN force</p> <p>Shimadzu tension/comp machine Max static: 100 kN force</p> <p>Hounsfield tension/comp machine Max static: 5 kN force</p> <p>Max amb temperature: +400 °C Min amb temperature: -60 °C</p> <p>Max local temperature: +700 °C Min local temperature: -60 °C</p> <p>Pressure (hydraulic) Max static: 1550 bar</p> <p>Measurements in support of Structural/Fatigue tests: Force Mechanical strain Length/displacement Pressure Temperature</p>	<p>DEF-STAN 07-55:1975 Test A12 to A15 DEF-STAN 00-35/3 Tests M15 to M18 DEF-STAN 00-035 Pt3 Is5 Tests M15 to M18 DEF-STAN 81-41/3 Tests F, M, P DEF-STAN 00-970: Part 1/5 Section 3, Leaflet 37 STANAG 4370 AECTP 400-3 Method 409,410,411,412</p>	<p>S</p>



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<p>MISSILES AND MISSILE COMPONENTS</p> <p>WEAPONS AND SUBASSEMBLIES</p>	<p>ENVIRONMENTAL TESTS (EXPLOSIVE ITEMS)</p> <p>Environmental Testing, particularly on dangerous substances under the subdivisions of the Explosives Class 1 of the UN Dangerous Goods Classification system:</p> <p>Climatic Testing: 1 kg HD 1.1 19 kg HD 1.3</p> <p>Dynamic Testing: 1 kg HD 1.1 19 kg HD 1.3</p> <p><u>High temperature - Low humidity</u> - constant and cyclic (Lowest humidity 14 %rh)</p> <p>Max temp: + 100 °C Max chamber size: 1.0 m x 1.0 m x 1.0 m</p>	<p>BS EN 60068-2-2:2007 Test B DEF-STAN 07-55:1975 Test B1 DEF-STAN 00-35 Pt3 Is4 Tests CL1, CL2 DEF-STAN 00-035 Pt3 Is5 Tests CL1, CL2 DEF-STAN 81-41/3 Test C MIL-STD-810G:2014 Method 501.6 RTCA/DO-160E Section 4 - Constant Section 5 – Cyclic STANAG 4370 AECTP 300 Method 302</p>	<p>H</p>



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<p>MISSILES AND MISSILE COMPONENTS</p> <p>WEAPONS AND SUBASSEMBLIES</p>	<p><u>Low temperature</u> - constant and cyclic</p> <p>Min temp: - 50 °C Chamber size: 1.0 m x 1.0 m x 1.0 m</p> <p><u>High temperature - High humidity</u> - constant and cyclic</p> <p>Temp range: + 20 °C to + 71 °C Humidity range: 14 % rh to 98 % rh Max chamber: 1.0 m x 1.0 m x 1.0 m</p>	<p>BS EN 60068-2-1:2007 Test A DEF-STAN 07-55:1975 Test B4 DEF-STAN 00-35 Pt3 Is4 Tests CL4, CL5 DEF-STAN 00-035 Pt3 Is5 Tests CL4, CL5 MIL-STD-810G:2014 Method 502.6 RTCA/DO-160E Section 4 - Constant Section 5 - Cyclic DEF-STAN 81-41/4 Test G STANAG 4370 AECTP 300 Method 303</p> <p>BS 2011:Ca:1977 BS EN 60068-2-66:1995 BS 2011:Db:1981 BS EN 60068-2-67:1996 DEF-STAN 07-55:1975 Test B6 and B7 DEF-STAN 00-35 Pt3 Is4 Tests CL6, CL7, CL8 DEF-STAN 00-035 Pt3 Is5 Tests CL6, CL7, CL8 DEF-STAN 81-41/3 Test B MIL-STD-810G:2014 Method 507.6 RTCA/DO-160E Section 4 Section 6 STANAG 4370 AECTP 300 Method 306</p>	H



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MISSILES AND MISSILE COMPONENTS WEAPONS AND SUBASSEMBLIES	<p>Dynamic</p> <p><u>Vibration</u> sinusoidal, random sine-on-random, swept sine-on-random, gunfire</p> <p>(a) at ambient conditions</p> <p>Freq range: 2 to 3000 Hz Peak thrust (sinusoidal): 35.59 kN RMS thrust (random): 35.59 kN Max accel: 99 g</p> <p>(b) with temperature</p> <p>Freq range: 2 to 3000 Hz Peak thrust (sine): 35.59kN RMS thrust (ran): 35.59 kN Max accel: 99 g Max temp: + 100 °C Min temp: - 55 °C Chamber size (max): modular</p> <p><u>Shock/Bump</u> vibrator induced - with combined environments</p> <p>Max severity: 50 g Max item mass: 100 kg</p> <p>Also Shock Response Spectra (SRS)</p>	<p>BS EN 60068-2-64:2009 BS 2011:Fc:1983 BS 2011:Fd:1973 BS 3G100:Part 2 Subsect 3.1:1969(1983) DEF-STAN 07-55:1975 Test A1 and A2 DEF-STAN 00-35 Pt3 Is4 Test M1, M2 DEF-STAN 00-035 Pt3 Is5 Test M1, M2 DEF-STAN 81-41/3 Test K MIL-STD-810G:2014 Method 514.7 Method 519.7 RTCA/DO-160E Section 8 STANAG 4370 AECTP 400 Method 401 , Method 421</p> <p>BS EN 60068-2-27:2009 DEF-STAN 07-55:1975 Test A3 and A9 DEF-STAN 00-35 Pt3 Is4 Test M3 DEF-STAN 00-35 Pt 3 Is5 Test M3 MIL-STD-810G:2014 Method 516.7 RTCA/DO-160E Section 7 STANAG 4370 AECTP 400 Method 403</p>	H
END			