


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0095</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>MBDA UK Limited</p> <p>Issue No: 030 Issue date: 26 June 2023</p>	
	<p>EMC Department MBDA UK Ltd Golf Course Lane Filton Bristol BS34 7QW</p>	<p>Contact: Mr David Feasey Tel: +44 (0)117 931 8393 E-Mail: david.feasey@mbda.co.uk</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>AEROSPACE EQUIPMENT AEROSPACE MATERIALS AEROSPACE STRUCTURES CIRCUIT BREAKERS AND SWITCHES COATINGS: METALLIC COMPUTERS AND PERIPHERALS ELECTRICAL/ELECTRONIC COMPONENTS ELECTRICAL/ELECTRONIC CONNECTORS ELECTRICAL/ELECTRONIC PRODUCTS ELECTRICAL CABLES ELECTRO-MECHANICAL DEVICES ENGINE COMPONENTS ENCLOSURES FOR ELECTRICAL EQUIPMENT FANS FIRE PREVENTION AND DETECTION EQUIPMENT FUZES: WEAPONS INSTRUMENTS, INDICATING, RECORDING INSULATING MATERIALS (ELECTRICAL) INSULATING MATERIALS (THERMAL) LAMINATES AND FIBRE COMPOSITES MAGNETIC MATERIALS MARINE EQUIPMENT MEASURING EQUIPMENT MECHANICAL PRODUCTS</p>	<p><u>EMC Tests</u></p> <p>1 Conducted Emissions</p> <p>Power and Signal lines 20 Hz - 150 MHz</p>	<p>DEF STAN 59-41:October 1995 (Part 3, Issue 5) Not Part 4 DCE01, DCE02, DCE03</p> <p>DEF STAN 59-41 Part 3 Section 3 Issue 1, March 2003 DCE01.3, DCE02.3, DCE03.3</p> <p>DEF STAN 59/411 part 3 issue 1:2007+ Amendment 1:2008 DCE01, DCE02, DCE03</p> <p>DEF STAN 59/411 part 3 issue 2:2014 DCE01, DCE02, DCE03</p> <p>DEF STAN 59/411 part 3 issue 3:2019 DCE01.B, DCE02.B, DCE03.B</p> <p>MIL STD 461D CE101, CE102</p> <p>MIL STD 461E CE101, CE102</p> <p>EFA SPE-J-000-E-1000:Issue 1, February 1991 CE-EFA-1, CE-EFA-2, CE-EFA-3</p> <p>SP-P-90-010 September 1992 CE-TOR-1, CE-TOR-2, CE-TOR-3</p>



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Continued from previous page MICRO-ELECTRONIC CIRCUITS AND COMPONENTS MISSILE COMPONENTS MISSILES, GUIDED MISSILES, UNGUIDED MOTOR VEHICLE ACCESSORIES AND COMPONENTS MOTOR VEHICLES MOTORS AND GENERATORS ELECTRICAL OPTICAL AND PHOTO-METRIC EQUIPMENT POWER SUPPLIES RADAR EQUIPMENT RADIO AND TV EQUIPMENT SATELLITES AND SUB-ASSEMBLIES SONAR EQUIPMENT STRUCTURES TELECOMMUNICATION EQUIPMENT WEAPONS AND SUB-ASSEMBLIES VEHICLES	<u>EMC Tests</u> (cont'd)	
	1 Conducted Emissions Power and Signal lines 20 Hz - 150 MHz (continued)	AECTP 500 Edition 4:2011 NCE01, NCE02, NCE04, NCE05 AECTP 500 Edition E:2016 NCE01, NCE02, NCE04, NCE05
	Antenna Ports 10 kHz to 40 GHz	AECTP500 Edition 3, 4 & E, NCE03 DEF STAN 59-411 Part 3 Issue 3 NCE03 MIL-STD-461D/E/F/G CE106 Panavia SP-P-90-010 Issue 1 CE-TOR-4 EFA SPE-J-000-E-1000 Issue 1 CE-EFA-4
	2 Conducted Susceptibility 20 Hz - 400 MHz	DEF STAN 59-41:October 1995 (Part 3, Issue 5) Not Part 4 DCS01, DCS02, DCS03 DCS04 Type 1, DCS04 Type 2 DCS05, DCS06, DCS07, DCS08, DCS 09, DCS 10, DCS 11, DCS12 DEF STAN 59-41 Part 3, Section 3 Issue 1, March 2003 DCS01.3, DCS02.3, DCS03.3 DCS04.3 Type 1, DCS04.3 Type 2 DCS05.3, DCS06.3 DCS08.3, DCS09.3, DCS 10.3 DCS12.3 DEF STAN59/411 part 3 issue 1:2007+ Amendment 1:2008 DCS 01.B, DCS 02.B, DCS 03.B DCS 04.B, Type 1, DCS04.B Type 2 DCS05, DCS06, DCS08, DCS 10, DCS12



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As listed on Pages 1 to 2	<p><u>EMC Tests</u> (cont'd)</p> <p>2 Conducted Susceptibility 20 Hz - 400 MHz (continued)</p>	<p>DEF STAN59/411 part 3 issue 2:2014 DCS 01.B, DCS 02.B, DCS 03.B DCS 04.B, Type 1, DCS04.B Type 2 DCS05.B, DCS06.B, DCS08.B DCS 10.B</p> <p>DEF STAN 59/411 part 3 issue 3:2019 DCS 01.B, DCS 02.B, DCS 03.B DCS 04.B, DCS05.B, DCS06.B DCS08.B, DCS 10.B</p> <p>MIL STD 461D:November 1993 CS 101, CS 114, CS 115, CS 116</p> <p>MIL STD 461E: CS 101, CS 114, CS 115, CS 116</p> <p>EFA SPE-J-000-E-1000:Issue 1 February 1991 CS-EFA-1, CS-EFA-2, CS EFA 4</p> <p>SP-P-90-010 September 1992 CS-TOR-1, CS-TOR-2, CS-TOR-4</p> <p>AECTP 500 Edition 4:2011 NCS01, NCS02, NCS07, NCS08, NCS09, NCS12, NCS13</p> <p>AECTP 500 Edition E:2016 NCS01, NCS02, NCS07, NCS08, NCS09, NCS12, NCS13</p>



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As listed on Pages 1 to 2	<p><u>EMC Tests (cont'd)</u></p> <p>Conducted Susceptibility:</p> <p>Inter and Cross Modulation and Rejection of Unwanted Signals:</p> <p>10 kHz to 40 GHz</p>	<p>AECTP500 Edition 3, 4 & E, NCS03, NCS04, NCS05</p> <p>DEF STAN 59-411 Part 3 Issue 3 NCS03, NCS04, NCS05</p> <p>MIL-STD-461D/E/F/G CS103, CS104, CS105</p> <p>Panavia SP-P-90-010 Issue 1 CS-TOR-5, CS-TOR-6, CS-TOR-7</p> <p>EFA SPE-J-000-E-1000 Issue 1 CS-EFA-5, CS-EFA-6, CS-EFA-7</p>
	<p>3 Radiated Emissions, Electric Field 14 kHz - 40 GHz</p>	<p>DEF STAN 59-41:October 1995 (Part 3, Issue 5)Not Part 4 DRE01</p> <p>DEF STAN 59-41Part 3, Section 3 Issue 1, March 2003 DRE01.3</p> <p>DEF STAN59/411 part 3 issue 1:2007+ Amendment 1:2008 DRE01 DRE03</p> <p>DEF STAN59/411 part 3 issue 2:2014 DRE01.B, DRE03.B</p> <p>DEF STAN59/411 part 3 issue 3:2019 DRE01.B, NRE03</p> <p>MIL STD 461D:November 1993 RE 102, RE103</p> <p>MIL STD 461E RE 102, RE103</p> <p>MIL STD 461F RE103</p>



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As listed on Pages 1 to 2	<p><u>EMC Tests</u> (cont'd)</p> <p>3 Radiated Emissions, Electric Field</p> <p>14 kHz - 40 GHz (continued)</p>	<p>MIL STD 461G RE103</p> <p>EFA SPE-J-000-E-1000:Issue 1, February 1991 RE-EFA-1, RE-EFA-2</p> <p>SP-P-90-010 Issue 1 September 1992 RE-TOR-1, RE-TOR-2</p> <p>AECTP 500 Edition 3: , NRE03</p> <p>AECTP 500 Edition 4:2011 NRE02 , NRE03</p> <p>AECTP 500 Edition E:2016 NRE02, NRE03</p>
	<p>4 Radiated Emissions Magnetic Fields 20 Hz - 50 kHz</p>	<p>DEF STAN 59-41:October 1995, Part 3, Issue 5 DRE02</p> <p>DEF STAN 59-41 Part 3, Section 3, Issue 1, March 2003 DRE02.3</p> <p>DEF STAN 59/411 part 3 issue 1:2007 + Amendment 1:2008 DRE02</p> <p>DEF STAN 59/411 part 3 issue 2:2014 DRE02.B</p> <p>DEF STAN 59/411 part 3 issue 3:2019 DRE02.B</p>



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	<p>5 Radiated Susceptibility Electric Fields 10 kHz - 40 GHz</p> <p>CW or Modulated (Peak Levels): 10 kHz-22 MHz at 200 V/m 22 MHz-33 MHz at 50 V/m 33 MHz-150 MHz 20 to 100V/m 150 MHz-400 MHz 100 to 200V/m 400 MHz-1 GHz 300 V/m 1 GHz-40 GHz 100 to 300 V/m</p> <p>Strip line method 10 kHz to 1.6 MHz 500 V/m. 1.6 MHz to 30 MHz 600 V/m. 30 MHz to 50 MHz 500 V/m</p>	<p>DEF STAN 59-41:October 1995 (Part 3, Issue 5) DRS02</p> <p>DEF STAN 59-41 Part 3, Section 3 Issue 1, 2003 DRS02.3</p> <p>DEF STAN 59/411 part 3 Issue1: 2007 + Amendment 1:2008 DRS02</p> <p>DEF STAN 59/411 part 3 Issue1: 2007 + Amendment 1:2008 DRS02</p> <p>RS-TOR-2</p>



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As listed on Pages 1 to 2	<p><u>EMC Tests (cont'd)</u></p> <p>5 Radiated Susceptibility Electric Fields 10 kHz - 40 GHz</p> <p>Large Strip Line</p> <p>10kHz – 50kHz 100 V/m 50kHz – 1.6MHz 200 V/m</p> <p>1.6MHz – 9.5MHz 380 V/m 9.5MHz – 10MHz 360 V/m 10MHz – 30MHz 280 V/m 30MHz – 50MHz 250 V/m</p> <p>Mode tuned reverberation chamber 200 MHz – 1 GHz up to 5000 V/m pulsed and CW 1 GHz - 2.5 GHz up to 4000 V/m pulsed, 2000V/m CW 2.5 GHz – 4 GHz up to 10000 V/m pulsed, 2500V/m CW 4 GHz – 18 GHz up to 5000 V/m pulsed, 2000V/m CW 18 GHz - 40 GHz up to 500 V/m pulsed and CW</p> <p>Reduced size Mode tuned reverberation chamber 1GHz to 18 GHz Up to 4000 V/m CW Up to 8000 V/m Pulsed 18 to 40 GHz Up to 1600 V/m CW Peak Pulsed Fields (at 6%) Duty Cycle: 1 - 5 GHz 400-1500 V/m 5 - 18 GHz 300 V/m (typically at 7 dB to 14 dB below full power)</p>	<p>MIL STD 461D:November 1993 RS 103</p> <p>MIL STD 461E RS103</p> <p>DEF STAN 59/411 part 3 issue 1:2007 + Amendment 1:2008 DRS02 Alternative Method</p> <p>DEF STAN 59/411 part 3 issue 2:2014 DRS02.B DRS02.B (alternative method)</p> <p>DEF STAN 59/411 part 3 issue 3:2019 DRS02.B DRS02.B (alternative method)</p> <p>BS EN 61000-4-21:2003 Annex D</p> <p>EFA SPE-J-000-E-1000:Issue 1 February 1991 RS-EFA-3</p> <p>SP-P-90-010 September 1992 RS-TOR-3</p> <p>AECTP 500 Edition 4:2011 NRS02</p> <p>AECTP 500 Edition E:2016 NRS02</p>



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As listed on Pages 1 to 2	<p><u>EMC Tests (cont'd)</u></p> <p>6 Radiated Susceptibility Magnetic Fields 20 Hz - 100 kHz Plus DC and Spikes</p>	<p>DEF STAN 59-41:October 1995 (Part 3, Issue 5) DRS01</p> <p>DEF STAN 59-41 Part 3 Section 3 Issue 1, 2003 DRS01.3</p> <p>DEF STAN 59/411 part 3 issue 1:2007+ Amendment 1:2008 DRS 01</p> <p>DEF STAN 59/411 part 3 issue 2:2014 DRS01.B</p> <p>DEF STAN 59/411 part 3 issue 3:2019 DRS01.B</p> <p>MIL STD 461D:November 1993 RS 101</p> <p>MIL STD 461E RS 101</p> <p>EFA SPE-J-000-E-1000:Issue 1 February 1991 RS-EFA-01</p> <p>SP-P-90-010 September 1992 RS-TOR-1</p> <p>AECTP 500 Edition 4:2011 NRS01</p> <p>AECTP 500 Edition E:2016 NRS01</p>



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As listed on Pages 1 to 2	<u>EMC Tests</u> (cont'd) 7 Magnetic Field (DC) Susceptibility	DEF STAN 59-411 Part 3 Issue 2:2014 DRS03 DEF STAN 59/411 part 3 issue 3:2019 DRS03 AECTP 500 Edition 4:2011 NRS04 AECTP 500 Edition E:2016 NRS04



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	<p>FACILITIES:</p> <p>Screened Room 1 Anechoic:</p> <p>11 m x 6 m x 5 m High with accesses door 3 m x 3 m wide plus personnel door</p> <p>Fully lined with TDK Ferrite and RAM</p> <p>Filtered Power Supplies Available</p> <p>50Hz Single Phase, Max (I) 30A 50Hz Three Phase, Max (I) 30A 60Hz Three Phase, Max (I) 60A 400Hz Three Phase, Max (I) 30A</p> <p>28V DC, Max (I) 60A Plus DC Filters available</p> <p>Screened Room 2 Anechoic:</p> <p>9.7m long x 3.2m wide (min) x 4.3m high. plus two personnel doors with Access Doors 3m x 3m</p> <p>Fully lined with Pyramid RAM</p> <p>Filtered Power Supplies Available 50Hz Single Phase, Max (I) 30A 50Hz Three Phase, Max (I) 30A 60Hz Three Phase, Max (I) 60A 400Hz Three Phase, Max (I) 30A</p> <p>Screened Room 3 Anechoic:</p> <p>7.4m long x 3.2m wide x 4.5m high. plus one personnel doors with Access Doors 3m x 3m</p> <p>Fully lined with Pyramid RAM.</p> <p>Filtered Power Supplies Available</p> <p>50Hz Single Phase, Max (I) 30A 50Hz Three Phase, Max (I) 30A 60Hz Three Phase, Max (I) 60A 400Hz Three Phase, Max (I) 30A</p>	



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	<p>FACILITIES (cont'd):</p> <p>Reverberation Chamber:</p> <p>Chamber: X = 5.7m, Y = 2.4m, Z = 3.0m (41m³).</p> <p>Calibrated Volume: X = 5.3m, Y = 2.0m, Z = 2.6m</p> <p>Door Opening: 1.2m Wide, 1.7m high</p> <p>Reduced Volume reverberation chamber:</p> <p>Chamber: (1.26 m³) X = 1.29 m, Y = 1.1 m, Z = 0.89 m)</p> <p>Calibrated Volume: X = 0.73 m, Y = 0.9 m, Z = 0.69</p> <p>Door Opening: 0.5 m Wide, 0.6 m high</p>	

END