Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

UKAS TESTING **8955** **Accredited to ISO/IEC 17025:2017**	**Malvern Optical Limited** **Issue No:** 019 **Issue date:** 10 November 2025	
	Hangar 3 **Pershore Airfield** **Long Lane** **Throckmorton** **WR10 2JH**	**Contact: Alex Haywood** **Tel: +44 (0)1386 553188** **E-Mail: ahaywood@malvernoptical.co.uk** **Website: www.malvernoptical.co.uk**
Testing performed by the Organisation at the locations specified		

Flexible Scope

The Flexible Scope applies to the laboratory's accreditation to ISO/IEC17025:2017 for testing activities in accordance with the standards listed in the schedule for EMC. 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 GEN 4

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Hangar 3 Pershore Airfield Long Lane Throckmorton WR10 2JH	**Local contact:** Alex Haywood Tel: +44 (0)1386 553188 Email: ahaywood@malvernoptical.co.uk	EMC Tests Optical Tests	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
The customers' site or premises must be suitable for the nature of the particular tests undertaken and will be the subject of contract review arrangements between the laboratory and the customer.	**Local contact** Alex Haywood Tel: +44 (0)1386 553188 Email: ahaywood@malvernoptical.co.uk	EMC Tests	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Communications Equipment Electrical/Electronic Products Industrial Trucks Military Vehicles and Devices Motor Vehicles Radar Equipment Rescue Appliances Security Equipment Sensors Weapons Systems	**1 EMC Tests** **1.1 – 1.2 Military Tests** **1.1.1 Earth Bonding**	DEF STAN 59-411:Part 4:A1:2008 and Issue 2 2014 and Issue 3 2019 Clause B.3 Documented in-house procedures: MO2014WI002 & MO2014WI019	A, B
	1.1.2 Antenna Radiated Patterns - antenna patterns: 1 MHz to 1 GHz - antenna gains: 30 MHz to 1 GHz -antenna VSWR 1 MHz to 1 GHz	DEF STAN 59-411:Part 4:Issue 1 + A1:2008 and Issue 2 2014 and Issue 3 2019Clause B.4 (excluding B.4.7) Documented in-house procedure: MO2014WI001 Documented in-house procedure: MO2014WI003	A, B
	1.1.3 RF Power -1 MHz to 30 MHz 1000 W - 30 MHz to 1 GHz 100 W	DEF STAN 59-411:Part 4:A1:2008 and Issue 2 2014 and Issue 3 2019 Clauses B.4 & B.5 & B.6 Documented in-house procedure: MO2014WI005	A, B
	1.1.4 Mutual Interference - maximum forward power for VSWR measurement: 1000 Watts (1 MHz to 30 MHz) - maximum forward power for VSWR measurement: 100 Watts (30 MHz to 1 GHz)	DEF STAN 59-411:Part 4:Issue 1 + A1:2008 and Issue 2 2014 and Issue 3 2019Clause B.6 Documented in-house procedure: MO2014WI005 Documented in-house procedure: MO2014WI009	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	1.1.5 Radiation Hazard to Personnel - electric field: 0.4 V/m to 400 V/m, 1 MHz to 1 GHz - magnetic field: 0.012 A/m to 1 A/m, 1 MHz to 27 MHz - magnetic field: 0.025 A/m to 1 A/m, 27 MHz to 100 MHz - magnetic field: 0.025 A/m to 0.23 A/m, 100 MHz to 1 GHz - contact and limb current: 1 mA to 1000 mA, 1 MHz to 100 MHz	SEIG/EI/E3A/LRH/GUIDE/ A002/2011:February 2012 EG/EI/LRH/Guide/A002/2011: June 2013 LRH/Guide/Issue 2: Oct 2015 LRH/Guide/Issue F: Jan 2023 (excluding Section 12) Documented in-house procedure: MO2014WI006 and MO2014WI008	A, B
	1.1.6 Radiation Hazard to Ordnance - electric field: 0.4 V/m to 400 V/m, 1 MHz to 3 GHz	Documented in-house procedure: MO2014WI007 and MO2016WI048	A, B
	1.1.7 Radiated Emissions - installed antenna: 1.6 to 30MHz Non Tuneable Antenna 30 MHz to 450MHz Non Tuneable Antenna	DEF-STAN 59-411: Part 4: Issue 3: 2019 Clause B2.3.10: test DRE05. Documented in-house procedure: MO2023-WI118 DEF STAN 59-411: Part 4:Issue 1 + A1:2008 and Issue 2 2014 Clause B.2.3.3: test DRE04 DEF STAN 59-411: Part 4:Issue 3:2019 Clause B.2.3.9: test DRE04 Documented in-house procedure: MO2014WI014	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	1.1.7 Radiated Emissions cont'd - installed antenna: 1.6 to 30 MHz Tuneable Antenna	Documented in-house procedure: MO2014WI049	
	1.1.8 Conducted Emissions - 500 Hz to 150 MHz	DEF STAN 59-411: Part 3 Issue 1 + A1:2008 and Issue 2:2014 Clause B.1: test DCE01.B and Clause B.2: test DCE02.B DEF STAN 59-411: Part 3 Issue 3 2019 Clause B.2: test DCE01.B and Clause B.3: test DCE02.B DEF STAN 59-411:Part 4 Issue 1 + A1:2008 and Issue 2:2014 and Issue 3 2019 Clause B.2.2 Conducted Emissions Documented in-house procedure: MO2014WI012 and MO2014WI013	A, B
	1.1.9 Radio Enhanced Level Test - maximum RF power output 500 Watts, 10 kHz to 250 MHz 200 Watts, 250 MHz to 1 GHz	DEF STAN 59-411:Part 4 Issue 1 + A1:2008 and Issue 2:2014 Clause B.2.8.1 DEF STAN 59-411:Part 4: Issue 3:2019 Clause B.2.8.4 Documented in-house procedure: MO2014WI015	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	1.1.10 Bulk Current Injection Enhanced Level Test - 10 kHz to 450 MHz	DEF STAN 59-411:Part 4 Issue 1 + A1:2008 and Issue 2:2014 Clause B.2.8.2 DEF STAN 59-411:Part 4: Issue 3:2019 Clause B.2.8.5 Documented in-house procedure: MO2016WI045	A, B
	1.1.11 Degradation of Communications while Stationary or on the Move - 1.6 MHz to 512 MHz	DEF STAN 59-411:Part 4 Issue 1 + A1:2008 and Issue 2:2014 and Issue 3 2019 Clause B.5 (speech and CW link only) Documented in-house procedures: MO2014WI010 and MO2014WI011	A, B
	1.1.12 Antenna Isolation - minimum dynamic range: 100 dB (20 MHz to 1 GHz) - minimum dynamic range: 90 dB (1 GHz to 4 GHz)	CRD/09/11/41, 20 Sept 2011 Documented in-house procedure: MO2014WI004	A, B
	1.1.13 Conducted Susceptibility 50 kHz to 400 MHz	DEF STAN 59-411: Part 3 Issue 1 + A1:2008 and Issue 2:2014 Clause B.5: test DCS02.B DEF STAN 59-411: Part 3 Issue 3:2019 Clause B.7: test DCS02.B DEF STAN 59-411: Part 4 Issue 1 + A1:2008 and Issue 2:2014 and Issue 3 2019 Clause B.2.5: Conducted Susceptibility (DCS02 only) Documented in-house procedures: MO2017WI058	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	1.1.14 High Level Bulk Current Injection - 500 kHz to 450 MHz	DEF STAN 59-411: Part 4 Issue 1 + A1:2008 and Issue 2:2014 and Issue 3 2019 Clause B.2.6.3. DEF STAN 59-411: Part 4: Issue 3:2019 Clause B.2.6.6. Documented in-house procedures: MO2017WI057	A, B
	1.1.15 ESD 0 to 30 kV	DEF STAN 59-411: Part 3 Issue 1 + A1:2008 and Issue 2:2014 Clause 9.13 test DCS10.B DEF STAN 59-411:Part 3 : Issue 3 2019 Clause 7.13 test DCS10.B BS EN 61000-4-2:2009 BS ISO 10605: 2008 AECTP-500 Ed 4 2011, Category 501 NCS12 and 508 Leaflet 2 Documented in-house procedures: MO2018WI067	A, B
	1.2 Military (ground) Platform DC Power Distribution Electrical System Power Quality **Platform Power Distribution Tests Only 1.2.1 to 1.2.13**	DEF STAN 61-5 Part 6 Issue 6 (February 2009) Annex A DEF STAN 61-5 Part 6 Issue 7 (March 2020) Annex A	A, B A, B
	1.2.1 Steady State Voltage	DET01.A Documented in-house procedure: MO2020WI080	A, B
	1.2.2 Ripple Voltage	DET02.A Documented in-house procedure: MO2020WI081	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	1.2.3 Long Transients	DET03.A Documented in-house procedure: MO2020WI082	A, B
	1.2.4 Short Transients	DET04.A Documented in-house procedure: MO2020WI083	A, B
	1.2.5 Circuit Protection	DET05.A Documented in-house procedure: MO2020WI084	A, B
	1.2.6 Power Distribution Voltage Drop	DET06.A Documented in-house procedure: MO2020WI085	A, B
	1.2.7 Cranking	DET07.A Documented in-house procedure: MO2020WI086	A, B
	1.2.8 Equipment Battery Capacity	DET08.A Documented in-house procedure: MO2020WI087	A, B
	1.2.9 Load Balance	DET09.A (Issue 7 only) Documented in-house procedure: MO2020WI092	A, B
	1.2.10 Platform & Equipment Earth Bond	DIT01.A Documented in-house procedure: MO2020WI088	A, B
	1.2.11Platform Over-voltage & Regulator Failure	DIT02.A Documented in-house procedure: MO2020WI089	A, B
	1.2.12 Platform Imported Ripple (20 Hz – 150 kHz)	DIT03.A Documented in-house procedure: MO2020WI090	A, B
	1.2.13 Platform Load Dump	DIT04.A Documented in-house procedure: MO2020WI091	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Paints, matt, non-metallic	**2 Optical Tests** **2.1 Infra-Red Reflectance**	DEF STAN 00-023 Issue 7	A
	Facilities for EMC Testing: Antenna Range Max weight 70 Tonnes Turntable diameter 7.3m Antenna element length up to 7.86m Screened room Size 16 m * 16 m * 7.8 m Door 5 m * 5 m Max Weight 70 Tonnes		
END			