

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	Electronic Test and Calibration Ltd	
	Issue No: 013 Issue date: 21 November 2009	Contact: Mr B D Wragge-Morley Tel: +44 (0)1237 423388 Fax: +44 (0)1237 423434 E-Mail: info@etcal.co.uk Website: etcal.co.uk
Caddsdwn Industrial Estate Clovelly Road Bideford Devon EX39 3DX		
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Computers and peripherals Domestic appliances Electrical/Electronic components Electrical/Electronic products Telecommunications equipment IT equipment	1 CIVIL EMC Tests	
	1.1 Conducted Emissions 9 kHz to 30 MHz	EN 55011:1998, A1 and A2 EN 55011:2007 A2 EN 55014-1:2006 CISPR 14-1:2005 EN 55022:1998, A1 EN 55022:2006 CISPR 22:1997 CISPR 16-2-1:2003 + A1 CISPR 16-2-1:2008
	1.2 Radiated Emissions - Electric Field 30 MHz to 18 GHz	EN 55011:1998, A1 and A2 EN 55011:2007 A2 EN 55014-1:2006 CISPR 14-1:2005 EN 55022:1998, A1 EN 55022:2006 CISPR 22:1997 CISPR 16-2-3:2006
	1.3 Electrostatic Discharge Up to 15 kV	IEC 801-2:1991 IEC 1000-4-2:1995, A1 and A2 EN 61000-4-2:1995, A1 and A2 EN 60601-1-2:2002
	1.4 Radiated Immunity 80 MHz to 2700 MHz up to 10 V/m	IEC 1000-4-3:2002 EN 61000-4-3:2002, A1 and A2 EN 61000-4-3:2006



1896

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As listed on Page 1	1 CIVIL EMC Tests (cont'd)	
	1.5 Fast Transient and Burst Immunity	IEC 801-4:1988 IEC 1000-4-4:1995, A1 and A2 EN 61000-4-4:1995, A1 and A2 EN 61000-4-4:2004
	1.6 Surge Immunity	IEC 1000-4-5:1995, A1 and A2 EN 61000-4-5:1995, A1 and A2 EN 61000-4-5:2006
	1.7 Conducted Radio Frequency Disturbance 150 kHz to 80 MHz	IEC 61000-4-6:1996, A1 and A2 EN 61000-4-6:1996, A1 and A2 EN 61000-4-6:2007
	1.8 Power Frequency Magnetic Field Immunity	EN 61000-4-8:1994 A1
	1.9 Mains Dips and Interruptions (5 seconds Maximum)	IEC 1000-4-11:1994 EN 61000-4-11:1994 EN 61000-4-11:2004
	1.10 Conducted Voltage Harmonics (Emissions) Up to 40th Harmonic	EN 61000-3-2:2001, Ed2 EN 61000-3-2:2006
	1.11 Conducted AC Mains Flicker/Emissions	EN 61000-3-3:1995, A1 and A2 EN 61000-3-3:2008
	1.12 EMC Tests These generic and product specific tests are included in this Schedule, but limited to those basic standards that are explicitly listed in Sections 1.1 to 1.11.	Generic and Product Standards EN 50081-1:1992 EN 50081-2:1994 EN 50082-1:1996 EN 50082-2:1996 EN 61000-6-1:2001 EN 61000-6-1:2007 EN 61000-6-2:2001 EN 61000-6-2:2007 EN 61000-6-3:2001 EN 61000-6-3:2007



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	<p>2 MILITARY EMC Tests</p> <p>2.1 Conducted Emissions:</p> <p>Power, Control and Signal Leads: 20 Hz to 150 MHz</p> <p>Antenna Terminals 10 kHz to 18 GHz</p>	<p>MIL STD 461E, CE101, CE102 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCE01, DCE02 and DCE03</p> <p>MIL STD 461E, CE106</p>
	<p>2.2 Radiated Emissions: Electric Field: 10 kHz to 18 GHz</p>	<p>MIL STD 461D and E, RE102, RE103 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRE01</p>
	<p>2.3 Radiated Emissions: Magnetic Field: 20 Hz to 100 kHz</p>	<p>MIL STD 461E, RE101 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRE02</p>
	<p>2.4 Exported Transients Power Lines</p>	<p>DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCE03</p>



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	<p>2 MILITARY EMC Tests (cont'd)</p> <p>2.5 Radiated Susceptibility: Electric Field: 10 kHz to 18 GHz Maximum Field Strength: 200 V/m (<1 GHz) 50 V/m (> 1 GHz)</p> <p>2.6 Radiated Susceptibility: Magnetic Field: 20 Hz to 100 kHz Maximum Field Strength: 180 dBuT</p> <p>2.7 Conducted Susceptibility: Inter and Cross Modulation and Rejection of Unwanted Signals: 10 kHz to 20 GHz</p> <p>2.8 Conducted Susceptibility: Power, Control and Signal Lines including Bulk Current Injection 20 Hz to 400 MHz</p> <p>2.9 Conducted Susceptibility: Primary Power Lines, 30 Hz - 150 kHz</p> <p>2.10 Electrostatic Discharge Up to 8 kV contact</p>	<p>MIL STD 461E, RS103 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS02</p> <p>MIL STD 461E, RS101 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS01</p> <p>MIL STD 461E, CS103, CS104 and CS105</p> <p>MIL STD 461D and E, CS114 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS02 and DCS03</p> <p>MIL STD 461E, CS101 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS01</p> <p>DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS10</p>



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	2 MILITARY EMC Tests (cont'd) 2.11 Conducted Susceptibility: Structure Current, 60 Hz - 100 kHz	MIL STD 461E, CS109
	END	