


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|  |  |   |
|--|--|---|
| <br><b>0018</b><br><br>Accredited to<br><b>ISO/IEC 17025:2005</b> | <b>AQL - EMC Ltd</b>   |   |
|  | Issue No: 028    Issue date: 10 February 2012                                  |   |
|  | 16 Cobham Road<br>Ferndown Industrial Estate<br>Wimborne<br>Dorset<br>BH21 7PG | Contact: Mr N Foot<br>Tel: +44 (0)1202 861175<br>Fax: +44 (0)1202 861176<br>E-Mail: <a href="mailto:info@aqlemc.co.uk">info@aqlemc.co.uk</a><br>Website: <a href="http://www.aqlemc.co.uk">www.aqlemc.co.uk</a> |
| Testing performed by the Organisation at the locations specified below   |  |   |

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

| Location details  | Activity | Location code |
|---|----------|---------------|
| <b>Address</b><br>16 Cobham Road<br>Ferndown Industrial Estate<br>Wimborne<br>Dorset<br>BH21 7PG<br><br><b>Local contact</b><br>Mr N Foot<br><br>Tel: +44 (0)1202 861175<br>Fax: +44 (0)1202 861176<br>Email: <a href="mailto:ukinfo@aqlemc.co.uk">ukinfo@aqlemc.co.uk</a><br>Website: <a href="http://www.aqlemc.co.uk">www.aqlemc.co.uk</a> | EMC      | A             |

#### Site activities performed away from the locations listed above:

| Location details      | Activity | Location code |
|-----------------------|----------|---------------|
| Any Customer Premises | EMC      | B             |



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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 |
|---|---|---|---------------|
| Aerospace Equipment<br>Aerospace Materials<br>Aerospace Structures<br>Agricultural Equipment<br>Batteries and Cells<br>Ceramics and Products<br>Circuit Breakers and Switches<br>Coatings, Metallic<br>Compressors<br>Computers and Peripherals<br>Construction Materials<br>Construction Plant and Equipment<br>Construction Products<br>Domestic Appliances, Electrical<br>Electrical/Electronic Components<br>Electrical/Electronic Connectors<br>Electrical/Electronic Products<br>Electrical Cables<br>Electro-Mechanical Devices<br>Enclosures for Electrical Equipment<br>Engine Components<br>Fans<br>Filters and Filter Media<br>Firearms<br>Fire Fighting and Detection Equipment<br>Flowmeters<br>Foundry Equipment<br>Fuzes: Weapons<br>Gas Appliances<br>Generators: Electrical<br>Generators: Power<br>Generators: Welding<br>Glass and Products<br>Hoses, Pipes and Tubes<br>Hydraulic Equipment and Fittings<br>Instruments: Indicating/Recording | <b>EMC TESTS</b><br><br>1 Conducted Emissions<br>DC to 18 GHz | BS 3G100:Part 4:Section 2:1973 and 1980<br>BS 1597:1985 and 1992<br>DEF STAN 59-41:Part 3:Issue 3: 1988<br>DEF STAN 59-41Part 3:Issue 4: 1993<br>DEF STAN 59-41:Part 3:Issue 5: 1995<br>DCE 01, DCE 02, DCE 03<br>DEF STAN 59-41:Part 3: Section 3:issue 1:2003<br>DCE 01, DCE 02, DCE 03<br>DEF STAN 59/411 including Amendment A1<br>DCE01.B, DCE02.B & DCE03.B<br>DGS 250B:1981 and Amendment 1<br>NWS 3:1973 and Amendments 1 to 4<br>RTCA/DO-160A:Sect 21:1980<br>RTCA/DO-160B:Sect 21:1984<br>RTCA/DO-160C:Sect 21:1989<br>RTCA/DO-160D:Sect 21:1997<br>RTCA/DO-160E:Sect 21:2004<br>MIL STD 461A:1967 and Notices 1 to 5<br>MIL STD 461B:1980:Parts 1 to 10<br>MIL STD 461C:1986:Parts 1 to 10 (Note 1)<br>MIL STD 461D:1993:Parts 1 to 10 (Note 1)<br>MIL STD 461E:1999<br>SPE-J-000-E-1000:Part 2:1991<br>CE-EFA-1, CE-EFA-2 and CE-EFA-3<br>Panavia SP-P-90010:Issue 1:1995 | A, B          |
|   |   |   |               |



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|--|--|--|---------------|
| <p>Continued from Page 2</p> <p>Insulating Materials:<br/>Electrical</p> <p>Laminates and Fibre Composites</p> <p>Lamps: Electrical</p> <p>Lawnmowers</p> <p>Lifting Gear</p> <p>Luminaires</p> <p>Magnetic Materials</p> <p>Marine Equipment</p> <p>Measuring Equipment</p> <p>Mechanical Products and Plant</p> <p>Medical and Dental Equipment</p> <p>Medical and Dental Materials</p> <p>Metal Products</p> <p>Metals and Alloys: Ferrous</p> <p>Metals and Alloys: Non-Ferrous</p> <p>Micro-Electronic Circuits and Components</p> <p>Mining Equipment Components</p> <p>Mining Plant and Equipment</p> <p>Missile Components</p> <p>Missiles: Guided</p> <p>Missiles: Unguided</p> <p>Moisture Meters</p> <p>Motor Vehicle Accessories and Components</p> <p>Motor Vehicles</p> <p>Motors: Electrical</p> <p>Office Equipment: Electrical</p> <p>Optical and Photometric Equipment</p> <p>Packages and Packaging Materials</p> <p>Paints and Varnishes</p> <p>Plastics and Products</p> <p>Plugs and Sockets: Electrical</p> <p>Power Supplies: Electrical</p> <p>Printed Circuit Boards</p> | <p><b>EMC TESTS (cont'd)</b></p> <p>2 Radiated Emissions:<br/>Magnetic Field:<br/>DC to 30 MHz<br/>Electric Field:<br/>9 kHz to 18 GHz</p> | <p>BS 3G100:Part 4:Section 2:1973 and 1980</p> <p>BS 1597:1985 and 1992</p> <p>DEF STAN 59-41:Part 3:Issue 3: 1988</p> <p>DEF STAN 59-41:Part 3:Issue 4: 1993</p> <p>DEF STAN 59-41:Part 3:Issue 5: 1995</p> <p>DRE 01, DRE 02, DRE 03</p> <p>DEF STAN 59-41:Part 3: Section 3:issue 1:2003</p> <p>DRE 02, DRE 03</p> <p>DEF STAN 59/411 including Amendment A1</p> <p>DRE02.B</p> <p>DEF STAN 59/411 including Amendment A1</p> <p>DRE01, DRE03</p> <p>For equipment larger than 1m<sup>3</sup></p> <p>DGS 250B:1981 and Amendment 1</p> <p>NWS 3:1973 and Amendments 1 to 4</p> <p>RTCA/DO-160A:Sect 21:1980</p> <p>RTCA/DO-160B:Sect 21:1984</p> <p>RTCA/DO-160C:Sect 21:1989</p> <p>RTCA/DO-160D:Sect 21:1997</p> <p>RTCA/DO-160E:Sect 21:2004</p> <p>MIL STD 461A:1967 and Notices 1 to 5</p> <p>MIL STD 461B:1980:Parts 1 to 10</p> <p>MIL STD 461C:1986:Parts 1 to 10 (Note 1)</p> <p>MIL STD 461D:1993:Parts 1 to 10 (Note 1)</p> <p>MIL STD 461E:1999</p> <p>SPE-J-000-E-1000:Part 2:1991</p> <p>RE-EFA-1 and RE-EFA-2</p> <p>Panavia SP-P-90010:Issue 1:1995</p> | <p>A, B</p>   |



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| Materials/Products tested   | Type of test/Properties measured/Range of measurement   | Standard specifications/ Equipment/Techniques used  | Location Code |
|---|---|---|---------------|
| <p>Continued from Page 3</p> <p>Pumps<br/>Radar Equipment<br/>Radio and TV Equipment<br/>Rubber and Products<br/>Satellites and Equipment<br/>Security Devices and Alarms<br/>Sonar Equipment<br/>Structural Components and Fittings<br/>Structures<br/>Switchboards: Electrical<br/>Telecommunication<br/>Equipment<br/>Textiles<br/>Tools: Hand and Machine<br/>Toys<br/>Transformers: Electrical<br/>Walls: Cladding and Curtain Walling<br/>Waste Handling Equipment<br/>Weapons and Sub-assemblies<br/>Windows</p> | <p><b>EMC TESTS</b> (cont'd)</p> <p>3 Conducted Susceptibility<br/>DC to 600 MHz</p> <p>These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act.</p> | <p>BS 3G100:Part 4:Section 2:1973 and 1980<br/>BS 1597:1985 and 1992<br/>EN 61000-4-4:1995<br/>IEC 1000-4-4:1995<br/>DEF STAN 59-41:Part 3:Issue 3: 1988<br/>DEF STAN 59-41:Part 3:Issue 4: 1993<br/>DEF STAN 59-41:Part 3:Issue 5: 1995<br/>DCS 01, DCS 02, DCS 03<br/>DEF STAN 59-41:Part 3: Section 3:issue 1:2003<br/>DCS 01, DCS 02, DCS 03<br/>DEF STAN 59/411 including Amendment A1<br/>DCS01.B, DCS02.B &amp; DCS03.B<br/>DEF STAN 61-5:Part 2:1978<br/>DEF STAN 61-5:Part 4:1974<br/>DEF STAN 61-5:Part 6:1990<br/>DGS 250B:1981 and Amendment 1<br/>NWS 3:1973 and Amendments 1 to 4<br/>RTCA/DO-160A:Sections 18 to 20: 1980<br/>RTCA/DO-160B:Sections 18 to 20: 1984<br/>RTCA/DO-160C:Sections 18 to 20: 1989<br/>RTCA/DO-160D:Sections 18 to 20: 1997<br/>RTCA/DO-160E: Sections 18 to 20: 2004<br/>MIL STD 461A:1967 and Notices 1 to 5<br/>MIL STD 461B:1980:Parts 1 to 10<br/>MIL STD 461C:1986:Parts 1 to 10 (Note 1)<br/>MIL STD 461D:1993:Parts 1 to 10 (Note 1)<br/>MIL STD 461E:1999<br/>SPE-J-000-E-1000:Part 2:1991<br/>CS-EFA-1 and CS-EFA-2<br/>Panavia SP-P-90010:Issue 1:1995</p> | <p>A, B</p>   |



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| As listed on Pages 2, 3 and 4 | <p>EMC TESTS (cont'd)</p> <p>4 Conducted Susceptibility - Transients</p>   | <p>RTCA/DO-160A:Sect 17:1980<br/>RTCA/DO-160B:Sect 17:1984<br/>RTCA/DO-160C:Sect 17:1989<br/>RTCA/DO-160D:Sect 17:1997<br/>RTCA/DO-160E:Sect 17:2004<br/>DEF STAN 59-41:Part 3:<br/>Section 3:issue 1:2003<br/>DCS04, DCS05, DCS06, DCS11 and DCS12<br/>DEF STAN 59-41:Part 3:Issue 5<br/>DCS04, DCS05, DCS06, DCS11 and DCS12<br/>DEF STAN 59-41:Part 3:Issue 6,<br/>DCS04, DCS05, DCS06 and DCS12<br/>DEF STAN 59/411 including<br/>Amendment A1<br/>DCS04.B, DCS05.B, DCS06.B<br/>DCS08.B, DCS10.B &amp; DCS12.B</p>  | A, B          |
|                               | <p>5 Radiated Susceptibility<br/>Electric Field:<br/>10 kHz to 18 GHz<br/>excluding mode stir<br/>methods<br/>Typical field strengths<br/>10 kHz to 30 MHz, 300 V/m<br/>30 MHz to 220 MHz,<br/>250 V/m<br/>220 MHz to 18 GHz,<br/>200 V/m</p> <p>Magnetic Field:<br/>DC to 100 kHz<br/>Typical field strengths<br/>DC Fields, 5000 A/m<br/>50, 60 and 400 Hz,<br/>3500 A/m<br/>AC Fields, 20 Hz to<br/>100 kHz, 186 dBpT</p> | <p>BS 3G100:Part 4:Section 2:1973<br/>and 1980<br/>BS 1597:1985 and 1992<br/>DEF STAN 59-41:Part 3:Issue 3:<br/>1988<br/>DEF STAN 59-41:Part 3:Issue 4:<br/>1993<br/>DEF STAN 59-41:Part 3:Issue 5:<br/>1995<br/>DRS 01, DRS 02, DMFS01<br/>DEF STAN 59-41:Part 3:<br/>Section 3:issue 1:2003<br/>DRS 01, DRS 02, DMFS01<br/>DEF STAN 59/411 including<br/>Amendment A1<br/>DRS01.B &amp; DRS03.B<br/>DEF STAN 59/411 including<br/>Amendment A1<br/>DRS02<br/>For equipment larger than 1m<sup>3</sup><br/>DGS 250B:1981 and Amendment 1<br/>NWS 3:1973 and Amendments 1<br/>to 4</p> | A, B          |



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| As listed on Pages 2, 3 and 4 | <b>EMC TESTS (cont'd)</b><br><br>5 Radiated Susceptibility (cont'd)<br><br>These tests must normally be carried out in a screened enclosure, or other arrangements made to prevent contravention of the Wireless Communications Act. | RTCA/DO-160A:Section 20:1980<br>RTCA/DO-160B:Section 20:1984<br>RTCA/DO-160C:Section 20:1989<br>RTCA/DO-160D:Section 20:1997<br>RTCA/DO-160E:Section 20:2004<br>MIL STD 461A:1967 and Notices 1 to 5<br>MIL STD 461B:1980:Part 1 to 10<br>MIL STD 461C:1986:Parts 1 to 10 (Note 1)<br>MIL STD 461D:1993:Parts 1 to 10 (Note 1)<br>MIL STD 461E:1999<br>SPE-J-000-E-1000:Part 2:1991<br>RS-EFA-2 (max 200 V/m)<br>Panavia SP-P-90010:Issue 1:1995<br>TRG 1068:1991 | A, B          |
|                               | 6 Electrostatic Discharge and Lightning<br>ESD up to 15 kV   | BS EN 61000-4-2:1995, inc Amd 1<br>RTCA/DO-160A:Section 22:1980<br>RTCA/DO-160B:Section 22:1984<br>RTCA/DO-160C:Section 22:1989<br>RTCA/DO-160D:Section 22:1997<br>RTCA/DO-160E:Section 22:2004<br>DEF STAN 59-41:Part 3:Issue 5: 1995<br>DCS10   | A, B          |
|                               | 7 Compass Safe Distance  | BS 3G100:Part 2:Section 2:1972<br>RTCA/DO-160A:Section 15:1980<br>RTCA/DO-160B:Section 15:1984<br>RTCA/DO-160C:Section 15:1989<br>RTCA/DO-160D:Section 15:1997<br>RTCA/DO-160E:Section 15:2004  | A, B          |
|                               | 8 Screening Effectiveness<br>Magnetic Field: 10 kHz to 30 MHz<br>Electric Field:<br>10 kHz to 18 GHz   | MIL STD 285:1956<br>CW tests only   | A, B          |



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| As listed on Pages 2, 3 and 4 | <p>EMC TESTS (cont'd)</p> <p>9 Voltage Variations:</p> <p>DC Voltage: 0 to 600 V<br/>AC Voltage: 0 to 600 V<br/>Frequency:<br/>10 Hz to 1 kHz</p>   | <p>BS 3G100:Part 3:Section 2:1979<br/>RTCA/DO-160A:Section 16:1980<br/>RTCA/DO-160B:Section 16:1984<br/>RTCA/DO-160C:Section 16:1989<br/>RTCA/DO-160D:Section 16:1997<br/>RTCA/DO-160E:Section 16:2004<br/>MIL STD 704A and notice changes 1966, 1970 and 1973<br/>MIL STD 704C:1977<br/>MIL STD 704D:1980<br/>MIL STD 704E:1991<br/>DEF STAN 61-5:Part 2:1978<br/>DEF STAN 61-5:Part 4:1974<br/>DEF STAN 61-5:Part 6:1990<br/>Panavia SP-P-90001:Issue 5:1970</p> | A, B          |
|                               | <p>Facilities:</p> <p>Seven screened enclosures, the largest being:<br/>10 m x 8 m x 3.5 m high</p> <p>Test Samples must pass through a 2.8m square door aperture<br/>Maximum length of Test Samples: 8 m</p> <p>Larger items can be tested outside the screened enclosures where the specification is suitable</p> <p>Power Supplies:<br/>28V DC 300A<br/>0-320 V DC 120A</p> <p>AC: 50/60 Hz 125 kVA<br/>415/440V</p> <p>360 Hz to 440 Hz 50-60 kVA<br/>and 350-800 Hz 25 kVA</p> |  |               |



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|---------------------------|---|--|---------------|
|                           | Note: MIL STD 461C: Upper frequency limitation 18 GHz; Field strength limitation dependent on sample size |  |               |
| END                       |   |  |               |