


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

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|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Accredited to ISO/IEC 17025:2005</p> | <h3>Imperium Test Laboratories</h3> <p>Issue No: 013 Issue date: 20 January 2011</p> | |
| | <p>NEC Technologies (UK) Ltd Imperium Imperial Way Reading Berks RG2 0TD</p> | <p>Contact: Mr S Marshall Tel: +44 (0)118 925 7190 Fax: +44 (0)118 925 7191 E-Mail: steve.marshall@imperiumtl.com Website: www.imperiumtl.com</p> |
| 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 |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radio Products GSM/GPRS/3G WCDMA Handset (Cell Phone) | <p>Radio Tests 850/900/1800/1900 MHz 3G FDD I, FDD V</p> <p>Protocol Signalling 850/900/1800/1900 MHz 3G FDD I, FDD II, FDD IV, FDD V, FDD VI, IX</p> | <p>Test Specification Digital Cellular Telecommunication</p> <p>MS Conformance Specification</p> <p><u>Reference Documents</u> ETSI EN 301 511 ETSI EN 301 908-1 Clause 4.2.4 (Control and Monitoring) ETSI EN 301 908-2 ETSI TS 102 230 3GPP TS 51.010-4 3GPP TS 51.010-1 3GPP TS 31.121 3GPP TS 34.121-1 3GPP TS 34.123-1 OMA-IOP-ETS-MMS IMTC 3G-324M</p> |
| | <p>Facilities:</p> <p><u>ANITE SYSTEMS</u></p> <p>Anite SAT 8 System Protocol signalling tester for GSM/GPRS Supported Options: GSM 850, GSM 900, GSM 1800, GSM 1900, Layer 2, Layer 3, GPRS, EGPRS</p> | <p>3GPP TS 51.010-1</p> |



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| | <p><u>Facilities:</u> (cont'd)</p> <p><u>ROHDE AND SCHWARZ SYSTEMS</u></p> <p><u>Rohde and Schwarz CRTU-G</u></p> <p>Protocol signalling tester for GSM/GPRS Supported Options: GSM 850, GSM 900, GSM 1800, GSM 1900, Layer 2, Layer3, SIM, SATK, AMR, GPRS, EGPRS</p> <p><u>Rohde and Schwarz TS 8950GW</u></p> <p>RF Test System Supported Options: GSM 850, GSM 900, GSM 1800, GSM 1900, FDD I, FDD V AMR, GPRS, EGPRS, Section 21.x, HSDPA, HSUPA,</p> <p><u>Rohde and Schwarz CRTU-W</u></p> <p>Protocol signalling tester for FDD I, FDD II, FDD IV, FDD V, FDD VI, FDD IX Supported options: WCDMA protocol, HSUPA, HSDPA</p> <p><u>Rohde and Schwarz CRTU-RRM</u></p> <p>FDD I, RRM tester</p> <p><u>Rohde and Schwarz CRTU-2G3</u></p> <p>Intersystem-handover tester for 850/900/1800/1900 FDD I, FDD V</p> <p><u>Rohde and Schwarz CRTU-ATE</u></p> <p>MMS VT</p> | <p>3GPP TS 51.010-1 3GPP TS 51.010-4</p> <p>3GPP TS 51.010-1 3GPP TS 34.121-1 ETSI EN 301 511 ETSI EN 301 908-2</p> <p>3GPP TS 34.123-1</p> <p>3GPP TS 34.121-1</p> <p>3GPP TS 51.010-1 3GPP TS 34.123-1</p> <p>OMA-IOP-ETS-MMS IMTC3G-324M</p> |



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| | <p>Facilities: (cont'd)</p> <p><u>ROHDE AND SCHWARZ SYSTEMS</u> (cont'd)</p> <p><u>Rohde and Schwarz FSU 26</u> Spectrum Analyser</p> <p><u>COMPRION SYSTEMS</u></p> <p><u>Comprion IT3 SIM Tester</u></p> <p><u>SIM/USIM protocol signalling tester</u> Supported Options: SIM, USIM and SATK</p> <p>INTERLAB SYSTEMS</p> <p>Interlab USIM Interface Test Solution for the CRTU-W</p> <p>USIM (W-CDMA & I-RAT) protocol tester</p> <p>SUPPORT EQUIPMENT</p> <p>Votsch VT4002 Environmental Chamber</p> | <p>ETSI EN 301 908-1 Clause 4.2.4 (Control and Monitoring)</p> <p>ETS 102 230 3GPP TS 51.010-1 3GPP TS 51.010-4 3GPP TS 31.121</p> <p>3GPP TS 31.121</p> <p>3GPP TS 51.010-1 3GPP TS 34.121-1 ETSI EN 301 511 ETSI EN 301 908-2</p> |
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