


# 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>	<h3>ADR Testing Service</h3> <p>Issue No: 038    Issue date: 11 February 2010</p>	
	<p>Motorola Mobile Devices 600N US Hwy 45 Libertyville IL 60048 United States of America</p>	<p>Contact: Mr Kevin Gallagher Tel: +1 847 523 5119 Fax: +1 847 523 4538 E-Mail: kevin.gallagher@motorola.com Website: www.motorola.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> 2 Avenue du Docteur Maurice Grynfoegel 31100 Toulouse France</p> <p><b>Local contact</b> Nagui Elias</p>	<p><b>Testing:</b> Telecommunications</p>	ADR TLS
<p><b>Address</b> ADR Test Service Motorola Mobile Devices c/o Jeff Narducci IL93E0-27S 600 N. US Hwy 45 Libertyville IL. 60048 United States of America</p> <p><b>Local contact</b> Jeff Narducci</p>	<p><b>Testing:</b> Telecommunications</p>	ADR LV
<p><b>Address</b> Motorola (China) Technologies Ltd No.1 Wang Jing East Road Chao Yang District Beijing 100102 P.R. China</p> <p><b>Local contact</b> Dr Yilin Zhao</p>	<p><b>Testing:</b> Telecommunications EMC Radio Bluetooth</p>	ADR BJ



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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
Mobile Stations	1 EMC Testing		
	1.1 Conducted Emissions 9 kHz to 30 MHz	CISPR 22:2005 EN 55022:1998 EN 55022:2006 FCC CFR 47:Part 15B, 15C ANSI C63.4:2003	ADR BJ
	1.2 Radiated Emissions Electric Field 30 MHz to 40 GHz	CISPR 22:2005 EN 55022:2006 FCC CFR 47:Part 15B, 15C ANSI C63.4:2003	ADR BJ
	1.3 Electrostatic Discharge 0.25 to 16 kV	IEC 1000-4-2:1995 EN 61000-4-2:1995 including Amendment A1:1998 and A2:2001	ADR BJ
	1.4 Radiated Electromagnetic Field Immunity: 80 MHz to 2.7 GHz up to 3 V/m	EN 61000-4-3:1996 including A1:1998 EN 61000-4-3:2002 including A1:2002 EN 61000-4-3:2006+A1:2008	ADR BJ
	1.5 Fast Transient/Burst Immunity: 0.25 kV to 4.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 ms burst duration	EN 61000-4-4:1995 including Amendments A1:2001 and A2:2002 EN 61000-4-4:2004	ADR BJ
	1.6 Automotive Transient Immunity: Pulses 1, 2, 3a, 3b, 4	ISO 7637:2004	ADR BJ



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Mobile Stations (cont'd)	1 EMC Testing (cont'd)		
	1.7 Surge Immunity Waveforms: 0.2 kV to 6 kV 1.2/50 (8/20) µs Common mode Differential mode	EN 61000-4-5:1995 including Amendment A1:2001 EN 61000-4-5:2006	ADR BJ
	1.8 Conducted Radio Frequency Immunity: 10 kHz to 230 MHz RF voltage up to 10 V rms Injection via coupling networks, direct injection or bulk current injection	EN 61000-4-6:1996 including Amendment A1:2001 EN 61000-4-6:2007 inc Corr 2007	ADR BJ
	1.9 AC Power Ports Voltage Dips, Interruptions and Fluctuations (Immunity): Voltage Dips: up to 100% Voltage Reductions: up to 100% Voltage Fluctuations: up to 100%	EN 61000-4-11:1994 including Amendment A1:2001 EN 61000-4-11:2004	ADR BJ
	1.10 EMC Tests  This section includes generic and product family standards that refer to basic standards included in Sections 1.1 to 1.9 of this Schedule.	EN 301 489-1:V1.4.1 EN 301 489-1:V1.5.1 EN 301 489-1:V1.6.1 EN 301 489-1:V1.8.1 EN 301 489-7:V1.2.1 EN 301 489-7:V1.3.1 EN 301 489-17:V1.1.1 EN 301 489-17:V1.2.1 EN 301 489-24:V1.2.1 EN 301 489-24:V1.3.1 EN 301 489-24:V1.4.1	ADR BJ



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Short Range Devices Low Power Devices	2 Transmitter and Receiver Testing  2.1 Radio Testing  2.1.1 Transmitter Spurious Emissions 30 MHz to 40 GHz  2.1.2 Receiver Spurious Emissions 30 MHz to 40 GHz  2.1.3 Output power  2.1.4 Occupied bandwidth  2.1.5 Frequency stability  2.1.6 Modulation Characteristics  2.1.7 Control and Monitoring Function for UE	3GPP TS 51.010-1 EN 301 511:V9.0.2 EN 301 908-1:V3.2.1 EN 301 908-2 V3.2.1 EN 301 893:V1.3.1 EN 300 328:V1.7.1 EN 300 440-1:V1.4.1 EN 301 357-1 V1.3.1 EN 301 357-2 V1.3.1 FCC CFR 47:Part 22 FCC CFR 47:Part 24 FCC CFR 47:Part 27C FCC CFR 47:Part 27L FCC CFR 47:Part 15A, 15B, 15C, 15D As per reference to FCC CFR 47:Part 2J for paragraph 2.1046, 2.1047, 2.1049, 2.1053, 2.1055 and 2.1057 FCC CFR47:Part 90S RSS 118:1990 RSS 128:1999 RSS 213:2005 RSS-GEN:2007 RSS-129:1999 RSS-132:2005 RSS-133:2009 RSS-210:2007 ANSI C63.4:2003	ADR BJ
	3 OTA Testing  3.1 OTA TRP and TIS Testing	CTIA Test Plan for Mobile Station Over The Air Performance	ADR BJ



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<p>EMC and Radio Test Facilities</p> <p>Beijing</p> <p>Fully Anechoic Chamber: 12 m x 8 m x 6 m Semi-Anechoic Chamber: 22 m x 15 m x 8.5 m Shielded Room 7 m x 3.5 m x 2.7 m</p> <p>Max EUT size: 1.5 m x 1.5 m x 1.5 m Max EUT weight: 750 kg</p> <p>Power supplies available: 240V ac 16A 1 phase 415V ac 32A 3 phase</p>			
	<p>4 Telecommunications Testing</p> <p>4.1 RF, AF, and Signalling Parameters</p>	<p>3GPP TS 51.010-1 3GPP TS 51.010-4 EN 301 511:V9.0.2 3GPP TS 26.132 3GPP TS 31.121 3GPP TS 34.121-1 3GPP TS 34.123-1 3GPP TS 34.171 3GPP TS 31.124 ETSI TS 102 230 EN 301 908-1:V3.2.1 EN 301 908-2 V3.2.1</p>	<p>ADR</p>
	<p>4.2 Application Enablers</p>	<p>OMA-ETS-MMS IMTC(3G-324) OMA-ETS-PoC Con OMA-ERP-DM OMA-SUPL-AE PTCRB 2G TTY (Test Telephony) RFT V4.3</p>	



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	<p>Telecommunications Testing Facilities:</p> <p><b>ANITE SYSTEMS</b></p> <p>Anite SAT 8(A) UE System Protocol signalling tester for GSM, GPRS, EGPRS, UMTS Supported Options: GSM 850/900/1800/1900. UTRA FDD I, II, V, VI. L2, L3, RLP, SIM, AMR, GPRS, EGPRS, Inter RAT HO and HSDPA. Section 21.x as a RF tester</p> <p>Anite SAT4 System Protocol signalling tester for GSM/GPRS Supported Options: GSM 900/1800/1900 L2, L3, RLP, GPRS, DTM</p> <p>Anite SAT4 (A) UE System Protocol signalling tester for GSM, GPRS, EGPRS, UMTS Supported Options: GSM 850/900/1800/1900. UTRA FDD I, II, V, VI. L2, L3, RLP, SIM, AMR, GPRS, EGPRS, Inter RAT HO and HSDPA</p> <p><b>ROHDE &amp; SCHWARZ SYSTEMS</b></p> <p>Rohde &amp; Schwarz CRTU-G Protocol signalling tester for GSM, GPRS, EGPRS up to 4 cell Multibox Supported Options: GSM 850/900/1800/1900 L2, L3, RLP, SIM, SAT, AMR, GPRS, DTM, EGPRS</p>	<p>3GPP TS 51.010-1 3GPP TS 34.123-1 3GPP TS 31.121</p> <p>3GPP TS 51.010-1</p> <p>3GPP TS 51.010-1 3GPP TS 34.123-1</p> <p>3GPP TS 51.010-1 3GPP TS 51.010-4</p>	<p>ADR BJ</p> <p>ADR TLS</p> <p>ADR TLS ADR LV</p> <p>ADR TLS ADR BJ</p>



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	Telecommunications Testing Facilities: (cont'd)		
	ROHDE & SCHWARZ SYSTEMS (cont'd)		
	Rohde & Schwarz CRTU-G Protocol signalling tester for GSM, GPRS, EGPRS up to 10 cell Multibox Supported Options: GSM 850/900/1800/1900 L2, L3, RLP, SIM, SAT, AMR, GPRS, DTM, EGPRS, A-GPS	3GPP TS 51.010-1 3GPP TS 51.010-4	ADR LV
	Rohde & Schwarz CRTU-2G3/ CRTU-W Protocol signalling tester for UTRA FDD Supported Options: FDD I, II, IV, V & VI, Inter RAT HO, HSDPA	3GPP TS 31.121 3GPP TS 34.123-1 3GPP TS 51.010-1	ADR AL ADR LV
	Rohde & Schwarz CRTU-RRM RF tester for UTRA FDD RRM Supported Options: RRM tests for FDD I, II, IV, V & VI, including HSDPA (Section 8)	3GPP TS 34.121-1	ADR LV
	Rohde & Schwarz TS8950G Radio Test System for GSM/GPRS/ EGPRS RF Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP	3GPP TS 51.010-1	ADR LV ADR BJ
	Rohde & Schwarz TS8952G Radio Test System for GSM/GPRS/EGPRS RF Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP	3GPP TS 51.010-1	ADR LV



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	<p>Telecommunications Testing Facilities: (cont'd)</p> <p>ROHDE &amp; SCHWARZ SYSTEMS (cont'd)</p> <p>Rohde &amp; Schwarz TS8950GW Radio Test System for GSM/GPRS/EGPRS RF and UTRA FDD Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP and for FDD I, II, IV, V &amp; VI incl. HSDPA (Section 5, 6, 7, 9)</p> <p>Rohde &amp; Schwarz UPL16 + CMU200 Audio Analyzer Supported Options: GSM Audio, UTRA FDD Audio</p> <p>ANRITSU</p> <p>ANRITSU TRX Radio Test System for UTRA FDD Supported Options: RF circuit and packet switched for FDD I, II, IV, V, VI, VIII incl HSDPA (Section 5, 6, 7, and 9)</p> <p>ANRITSU TRX/RRM Radio Test System for UTRA FDD Supported Options: RF circuit and packet switched for FDD I, II, IV, V, incl HSDPA and RRM (Section 5, 6, 7, 8 and 9)</p>	<p>3GPP TS 51.010-1 3GPP 34.121-1</p> <p>3GPP TS 51.010-1 3GPP TS 26.131 3GPP TS 26.132</p> <p>3GPP 34.121-1</p> <p>3GPP 34.121-1</p>	<p>ADR LV</p> <p>ADR BJ</p> <p>ADR LV</p> <p>ADR BJ</p>



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	Telecommunications Testing Facilities: (cont'd)		
	RACAL SYSTEMS		
	RACAL 6401 AIME Protocol Signalling Tester for UTRA FDD Supported Options: FDD I, II, IV, V & VI, Inter RAT HO, HSDPA	3GPP TS 34.123-1 3GPP TS 51.010-1	ADR BJ
	COMPRION SYSTEMS		
	Comprion Digital/Analog (U)SIM Tester IT3 (U)SIM digital/analog signalling tester Supported Options: SIM, SIM Application Toolkit, USIM, USIM Application Toolkit	3GPP TS 51.010-1 3GPP TS 51.010-4 3GPP TS 31.121 3GPP TS 31.124 ETSI TS 102 230	ADR LV ADR BJ
	Comprion Digital SIM Tester IT3 SIM digital signalling tester Supported Options: SIM, SIM Application Toolkit	3GPP TS 51.010-1 3GPP TS 51.010-4	ADR TLS
	AT4 Wireless SYSTEMS		
	AEROFLEX SYSTEMS Racal 6103 AIME CT & AIME AMR/CT Protocol signalling tester for AMR, GPRS, EGPRS Supported Options: GSM 850/900/1800/1900, AMR, GPRS, EGPRS, DTM	3GPP TS 51.010-1	ADR TLS ADR BJ
	Setcom S-CAT5020 Application Enabler Test Platform	OMA -ETS-MMS IMTC(3G-324) OMA-ETS-PoC OMA-ERP-DM	ADR LV



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	Telecommunications Testing Facilities: (cont'd)  AT4 Wireless SYSTEMS (cont'd)  Spirent ULTS  7Layers Interlab  Setcom S-CAT5030  Support Equipment  Vibration Platform Environmental Chambers	   3GPP TS 51.010 3GPP TS 34.171 OMA-SUPL-AE  3GPP TS 51.010-1 Sect 90.x (TTY)  3GPP TS 51.010-1 Section 8X (GAN)	   ADR LV  ADR LV  ADR TLS    ADR LV ADR BJ
Bluetooth Devices	<b>5 Bluetooth Tests</b>  5.1 RF Transmitter, Transceiver and Receiver Tests  Bluetooth Testing Facilities:  Rohde-Schwarz TS8960 AT4 Wireless BITE RF Tester	Bluetooth Test Specification Ver. 1.2/2.0/2.0 + EDR/2.1/2.1 + EDR   Bluetooth Test Specification Ver. 1.2/2.0/2.0 + EDR/2.1/2.1 + EDR	ADR BJ
END			