



MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

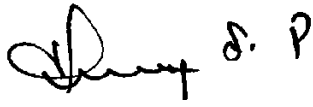
EMC TEST REPORT

Test Report Number – 18725-1 Supplement

Report Date – August 29, 2006

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Engineer, I hereby declare that the equipment tested as specified in this report conforms to the requirements indicated.

Signature: 

Name: Thanigaiselvan Palaniswami

Title: EMC Engineer

Date: August 29, 2006

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Test Report Details

Tests Performed By:	Motorola Mobile Devices business (MDb) Product Safety and Compliance Group 600 North US Hwy 45 Libertyville, IL 60048 PH (847) 523-6167 Fax (847) 523-4538 Motorola MDb FRN: 0004321311 FCC Registration Number: 316588 Industry Canada Number: IC3908-1
Tests Requested By:	Motorola Inc. Mobile Devices business 600 North US Hwy 45 Libertyville, IL 60048
Product Type:	Data Card
Signaling Capability:	GSM 1900
FCC ID :	IHDT6FL1
Serial Numbers:	LEL0A40124, LEL0A40131, LEL0A40136
Testing Complete Date:	August 28, 2006

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 :

 X Part 15 Subpart B – Unintentional Radiators

Applicable Standards: ANSI 63.4 2003

Summary of Testing

<u>Test #</u>	<u>Test Name</u>	<u>Pass/Fail</u>
1	Field Strength of Spurious Emissions from Unintentional Radiators	Pass

<u>Test #</u>	<u>Test Name</u>	<u>Margin with respect to the Limit</u>
1	Field Strength of Spurious Emissions from Unintentional Radiators	see results

The margin with respect to the limit is the minimum margin for all modes and bands.

General and Special Conditions

All testing was done in an indoor controlled environment with an average temperature of 22° C and relative humidity of 50%.

Equipment List

Manufacturer	Equipment Type	Model No.	Serial Number	Calibration Due Date
Rohde Schwarz	Receiver	ESI40	100226	6/05/07
A.H. Systems	DRG Horn Antenna	SAS 200/571	365	5/12/07
ETS.	Horn Antenna	3115	6222	3/03/07
ETS	Log-Periodic Antenna	3148	1188	6/05/07
ETS	Biconical Antenna	3110B	3369	3/03/07
Dell	Laptop Computer	M20	NA	NA
Iomega	Zip Drive	Z250S	P9HM1992CK	NA
Olympus	Camera	D-600L	4020727	NA

All equipment is on a one-year calibration cycle.

Measurement Procedures and Data

FIELD STRENGTH OF EMISSIONS FROM UNINTENTIONAL RADIATORS

CFR Part 15.109

Measurement Procedure

The equipment under test is placed inside the semi-anechoic chamber on a wooden table on the turntable center. For each radiated emission, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum peak reading on the spectrum analyzer. The final radiated emissions are then measured using an EMI receiver employing a CISPR quasi-peak detector function below 1000 MHz and an average detector function above 1000 MHz. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The field strength of each radiated emission is calculated by correcting the EMI receiver level for cable loss, amplifier gain, and antenna correction factors.

Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) - Amplifier Gain (dB) + Antenna Correction Factor (1/m)

Test Setup

The EUT and the host equipment were setup according to the procedures in ANSI C63.4-2003. The EUT was connected to a laptop computer using PCMCIA slot. The parallel and the serial ports of the computer were populated.

Measurement Results

Operating Mode – Rx Mode.

30 MHz – 1000 MHz

Frequency	Level	Measured	Antenna Factor	Cable Loss	Limit	Margin	Height	Angle	Pol.
MHz	dBuV/m	dBuV	dB	dB	dBuV/m	dB	cm	deg	
120.24	19.99	-1.38	11.7	9.7	43.5	23.5	309	222	VERT
199.72	25.57	-0.51	15.5	10.6	43.5	17.9	400	25	HORI
903.12	39.3	-0.32	23.7	15.9	46	6.7	357	14	HORI
926.8	39.86	-0.27	24.1	16	46	6.1	331	348	HORI
948	39.55	-0.36	23.9	16	46	6.4	209	61	HORI
954.64	39.73	-0.27	23.9	16.1	46	6.3	250	71	HORI

Above 1 GHz

No Significant emissions were found.

Notes: Worst Case emissions reported.

Appendix A – Radiated Emissions Test Setup Photos



Radiated Emissions Measurement Setup

End of Test Report