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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399



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FCC ID: SIP0411-EU415

FCC TEST REPORT

Application No.: GLEMO040801107RF (SZ SGS NO.: SZTYR040804593/TS)

Applicant: MEGAGAIN INTERNATIONAL LTD.

FCC ID: SIP0411-EU415

Fundamental Carrier Frequency: 27.145 MHz

Equipment Under Test (EUT):

Name: INCREDIMOBILE

Model: 0411-EU415 (0592-W) •

Please refer to section 3.5 of this report which indicates which model was actually

tested and which were electrically identical.

Standards: FCC PART 15, SUBPART C: 2003

Section 15.227.

Date of Receipt: 9 August 2004
Date of Test: 12 August 2004
Date of Issue: 31 April 2004

Test Result : PASS *

Authorized Signature:

Kent Hsu

Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.

^{*} In the configuration tested, the EUT complied with the standards specified above.



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3 General Information

3.1 Client Information

Applicant Name: MEGAGAIN INTERNATIONAL LTD.

Applicant Address: RM 1908, GREENFIELD TOWER, CONCORDIA PLAZA, 1,

SCIENCE MUSEUM ROAD, T.S.T. EAST. KLN.

3.2 Details of E.U.T.

Product Name: INCREDIMOBILE

Model: 0411-EU415 (0592-W) •

♣ Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Power Supply: 9.0V DC (1 x "6F22" Size Battery) for Tx;

Power Cord: N/A-

3.3 Description of Support Units

The EUT was tested as an independent unit: a 27MHz radio transmitter.

3.4 Test Location

All tests were performed at:-

SGS-CSTC Standards Technical Services Ltd., Guangzhou Safety & EMC Laboratory, 1/F, Building No. 1, Agriculture Machinery Materials Company Warehouse Ltd., Wushan Road Shipai, Tianhe District, Guangzhou, China. P.C. 510630.

Tel: +86 20 3848 1001 Fax: +86 20 3848 1006

3.5 Other Information Requested by the Customer

Only the Item 0411-EU415 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the items 0411-EU415 (0592-W), with only difference being the outer decoration and item no.'s. For further details please refer to the facsimile from MEGAGAIN INTERNATIONAL LTD.dated 30 August 2004.



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3.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2004.

ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.

Date of Registration: February 28, 2003. Valid until May 30, 2005

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAL – LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

• FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

• Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.



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4 Test Results

4.1 Test Instruments

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	15-02-2005
EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	04-11-2004
EMI Test Software	Rohde & Schwarz	ES-K1	N/A	N/A
Coaxial cable	SGS	N/A	N/A	04-12-2004
Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	17-01-2005
Horn Antenna	Rohde & Schwarz	HF906	100095	01-04-2005
Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	22-12-2004
0.1-1300 MHz Pre-Amplifier	НР	8447D OPT 010	2944A06252	30-05-2004

4.2 E.U.T. Operation

Input voltage: 9.0V DC (1 x "6F22" Size Battery)

Operating Environment:

Temperature: 26.0 °C Humidity: 59 % RH Atmospheric Pressure: 1007 mbar

EUT Operation: Test the EUT in transmitting mode.

4.3 Test Procedure & Measurement Data

4.3.1 Radiated Emissions

Test Requirement: FCC Part15 C
Test Method: ANCI 63.4
Test Date: 12 August 2004

Measurement Distance: 3m (Semi-Anechoic Chamber)

Requirements: Carrier frequency will not exceed 80dBuV/m AT 3m.

Out of band emissions shall not exceed: $40.0~dB\mu V/m~between~30MHz~\&~88MHz$ $43.5~dB\mu V/m~between~88MHz~\&~216MHz$ $46.0~dB\mu V/m~between~216MHz~\&~960MHz$

54.0 dBµV/m above 960MHz

Detector: Peak Scan (120kHz resolution bandwidth)



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Test Procedure: The procedure used was ANSI Standard C63.4-2000. The receive was scanned from 30MHz to 1000MHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. The worst case emissions were reported.

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

The following measurements were performed on the EUT on 12 August 2004: Test the EUT in transmitting mode.

Intentional emission

Eraguanav	Antenna Polarization	Peak Measurement			Average Measurement		
Frequency (MHz)		Emission Level	Limit	Margin	Emission Level	Limit	Margin
(WITIZ)		$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)
27.145	Vertical	70.4	100.0	29.6	64.8	80.0	15.2
27.145	Horizontal	60.9	100.0	39.1	54.6	80.0	25.4

Other emissions

Test Frequency (MHz)		Quasi-Peak (dBuV/m)		Limits	Margin (dB)		
		Vertical	Horizontal	(dBuV/m)	Vertical	Horizontal	
2 nd	54.290	18.4	21.3	40.0	21.6	18.7	
3 rd	81.435	16.4	25.6	40.0	23.6	14.4	
4 th	108.580	25.1	26.3	43.5	18.4	17.2	
5 th	135.725	23.6	28.4	43.5	19.9	15.1	
6 th	162.870	22.4	24.8	43.5	21.1	18.7	
7 th	190.015	20.7	26.5	43.5	22.8	17.0	
8 th	217.160	20.0	25.8	46.0	26.0	20.2	
9 th	244.305	22.3	28.2	46.0	23.7	17.8	
10 th	271.450	25.4	28.9	46.0	20.6	17.1	

Test Results:

The unit does meet the FCC Part 15 C requirements.



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4.3.2 Occupied Bandwidth

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.227:

Operation within the band 26.96 – 27.28 MHz

Test Date: 12 August 2004

Requirements: The field strength of any emissions which appear outside of

this band shall not exceed the general radiated emission

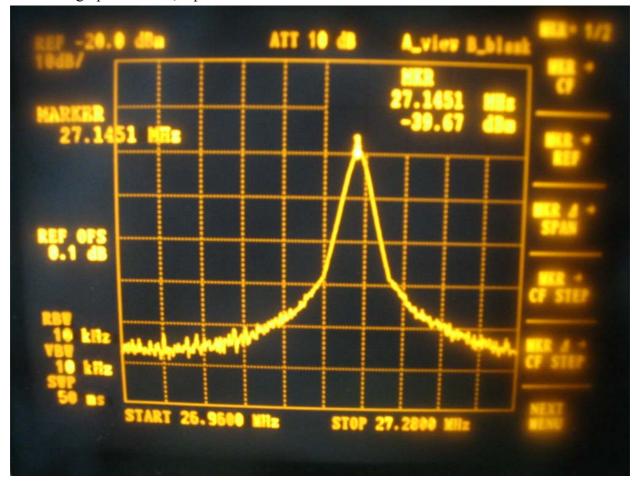
limits in Section 15.209.

Method of measurement: The useful radiated emission from the EUT was detected by

the spectrum analyser with peak detector. The vertical Scale is set to -10dB per division. The horizontal scale is set to

5KHz per division.

The graph as below, represents the emissions take for this device.



The results: The unit does meet the FCC Part 15 C requirements.