



M. Flom Associates, Inc.

International Compliance Testing Laboratory

3356 N. San Marcos Place, Suite 107
Chandler, AZ 85225

toll-free: (866) 311-3268
fax: (480) 926-3598

<http://www.mflom.com>
info@mflom.com

Date: August 18, 2005

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Digital Wireless Corporation
Equipment: DB-1000-2 Digital Station
FCC ID: OHN
FCC Rules: Radiofrequency Radiation Exposure Limits
47 CFR 1.1310
MPE - Mobiles _____ Fixed Based Station X

Gentlemen:

On behalf of the Applicant, enclosed please find the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

David E. Lee, Quality Assurance Manager

enclosure(s)
cc: Applicant
DEL/del



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Environmental Assessment

for

Mobiles/Fixed Base Station

for

FCC ID: OHN-B1000-2

Model:DB-1000-2 Digital Station

to

Federal Communications Commission

47 CFR 1.1310 (MPE)

Radiofrequency Radiation Exposure Limits

Date Of Report: August 18, 2005

On the Behalf of the Applicant:

Digital Wireless Corporation

At the Request of:

P.O. 16262

Digital Wireless Corporation
696 Moulton Ave, Unit E
Los Angeles, CA 90031

Attention of:

Brent Jaybush
323-276-5311
Email: bjay@digitalwireless.com

Supervised By:

David E. Lee, Quality Assurance Manager

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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a) **Test Report (Supplemental)**

b) Laboratory: M. Flom Associates, Inc.
(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107
(Canada: IC 2044) Chandler, AZ 85225

c) Report Number: d0580029

d) Client: Digital Wireless Corporation
696 Moulton Ave, Unit E
Los Angeles, CA 90031

e) Identification: DB-1000-2 Digital Station

Description: A narrowband repeater specifically designed for DV/IP format digital transmissions used on the i2way network.

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: August 18, 2005
EUT Received: July 15, 2005

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

l) Uncertainty: In accordance with MFA internal quality manual.

m) Supervised by:



David E. Lee, Quality Assurance Manager

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:

Digital Wireless Corporation
696 Moulton Ave, Unit E
Los Angeles, CA 90031

Manufacturer:

Digital Wireless Corporation
696 Moulton Ave, Unit E
Los Angeles, CA 90031

FCC ID:

OHN-B1000-2

Model Number:

DB-1000-2 Digital Station

Description:

A narrowband repeater specifically designed for DV/IP format digital transmissions used on the i2way network.

Type of Emission:

10K7F1E, 10K7F1D, 11K2F3E

Frequency Range, MHz:

216 - 222

Power Rating, Watts:

☐ Switchable

☐ Variable

25W

☒ N/A

Modulation:

☐ AMPS
☐ TDMA
☐ CDMA
☒ OTHER

Antenna:

☐ Helical
☒ Monopole
☒ Whip
☒ Other

Note: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.



A2LA

"A2LA has accredited M. Flom Associates, Inc. Chandler, AZ for technical competence in the field of Electrical Testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Certificate Number: **2152-01**



NIST

I am pleased to inform you that your laboratory has been validated by the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Your laboratory is now formally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA between the American Institute in Taiwan (AIT) and the Taipei Economic and Cultural Representative Office (TECRO) in the United States, covering equipment subject to Electro-Magnetic Compatibility (EMC) requirements. The names of all validated and nominated laboratories will be posted on the NIST website at <http://ts.nist.gov/mra> under the 'Asia' category."

BSMI Number: **SL2-IN-E-041R**

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2000, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

Specification: FCC: 47 CFR 1.1310

EUT is a Part 90 Base Station, building mounted or tower mounted antenna, >1000W ERP.
Routine Evaluation is not required. (47 CFR 1.1310, Table 1)

RF Exposure considerations must be addressed at time of installation.

The following calculation is provided for the advice of installers.

MPE Calculated based on Uncontrolled Exposure
100% Duty Cycle, 6dBi Antenna

Frequency, MHZ	219.000
Limit	0.20mW/cm ²
Minimum Safe Distance	$= [4 \times 25.00 / (12.56 \times 2.00)]^{1/2}$ = 1.99 m



Calculated By:

David E. Lee, Quality Assurance Manager

(The following will be placed in the Instruction Manual)

Mandatory Safety Instructions to Installers

Antenna Minimum Safe Distance: 2.00m.

Antenna Gain: 3dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy, which is below the OSHA (Occupational Safety and Health Act) limits.

Antenna Mounting: The antenna should be fixed-mounted on an outdoor permanent structure.

RF Exposure compliance must be addressed at the time of installation.

Warning: Maintain a separation distance from the antenna to a person(s) of at least 2.00m for General Population / Uncontrolled Exposure.

The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna.

**Testimonial
and
Statement of Certification**

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.



Certifying Engineer:

David E. Lee, Quality Assurance Manager