



# M. Flom Associates, Inc.

## International Compliance Testing Laboratory

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

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Date: August 2, 2005

Federal Communications Commission  
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Blue Dog Interactive Trivia LLC  
Equipment: 915MHz Module  
FCC ID: TR4BD101  
FCC Rules: Radiofrequency Radiation Exposure Limits  
47 CFR 1.1310  
MPE - Mobiles   X   Fixed Based Station           

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: TR4BD101**

Model: BD101

to

**Federal Communications Commission**

**47 CFR 1.1310 (MPE)**

Radiofrequency Radiation Exposure Limits

**Date Of Report:** August 2, 2005

#### On the Behalf of the Applicant:

Blue Dog Interactive Trivia LLC

#### At the Request of:

Blue Dog Interactive Trivia LLC  
601 W. 19th Street  
Wilmington, DE 19802

#### Attention of:

Joe Zilcosky  
[jzilcosky@bluedogtrivia.com](mailto:jzilcosky@bluedogtrivia.com)  
302-463-7321

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: d0580002

d) Client: Blue Dog Interactive Trivia LLC  
601 W. 19th Street  
Wilmington, DE 19802

e) Identification: FCC 1D: TF4BD101  
BD101

Description: 915MHz Module

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

g) Report Date: August 2, 2005  
EUT Received: 2005-Jun-20

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:**

Blue Dog Interactive Trivia LLC  
601 W. 19th Street  
Wilmington, DE 19802

**Manufacturer:**

Blue Dog Interactive Trivia LLC  
601 W. 19th Street  
Wilmington, DE 19802

**FCC ID:** TF4BD101

**Model Number:** BD101

**Description:** Control Module

**Type of Emission:** OOK

**Frequency Range, MHz:** 915

**Power Rating, Watts:**

☐ Switchable ☐ Variable ☒ 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.

## **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.

**Name of test:** Environmental Assessment

**Specification:** FCC: 47 CFR 1.1310

MPE Calculated (based on 10dBm / 10mW)  
Frequency, MHZ 915  
Limit  $f/1500 = 0.61\text{mW}/\text{cm}^2$   
Minimum Safe Distance  $= [0.010/(12.56 \times 6.1)]^{1/2}$   
 $= 0.011425 \text{ m}$   
 $= 0.12 \text{ cm}$



Calculated By:

David E. Lee, Quality Assurance Manager

(The following will be placed in the Instruction Manual)

### **Mandatory Safety Instructions to Installers & Users**

Use only manufacturer or dealer supplied antenna.

**Antenna Minimum Safe Distance:** 0.12cm.

Antenna Gain: zero dBd 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 supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna i.e. **0.12cm**.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

**Base Station Installation:** The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

**Antenna Substitution:** Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer. You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

**Warning:** Maintain a separation distance from the antenna to a person(s) of at least **0.12cm**.

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. 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