

## RF EXPOSURE REPORT

**REPORT NO.:** SA990423C17C

**MODEL NO.:** AW-NU137

FCC ID: TLZ-NU137

**RECEIVED:** Jul. 22, 2011

**TESTED:** Nov. 10 ~ Nov. 11, 2011

**ISSUED:** Nov. 16, 2011

**APPLICANT:** AzureWave Technologies, Inc.

ADDRESS: 8F., No. 94, Baozhong Rd., Xindian Dist.,

New Taipei City 231, Taiwan (R.O.C.)

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan (R.O.C)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan,

R.O.C.

This test report consists of 5 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced, except in full, without the written approval of our laboratory. The client should not use it to claim product, certification, approval, or endorsement by any government agency. The test results in the report only apply to the tested sample.



# **TABLE OF CONTENTS**

RELEA	ASE CONTROL RECORD	3
1.	CERTIFICATION	4
2.	RF EXPOSURE	. 5
	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	
	MPE CALCULATION FORMULA	
2.3	CLASSIFICATION	. 5
2.4	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	5



### **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Nov. 16, 2011



#### 1. CERTIFICATION

**PRODUCT:** IEEE 802.11n/g/b Wireless USB Module

**MODEL:** AW-NU137 **BRAND:** AzureWave

APPLICANT: AzureWave Technologies, Inc.

**TESTED:** Nov. 10 ~ Nov. 11, 2011

**TEST SAMPLE:** ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

The above equipment (Model: AW-NU137) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: Andrew A DATE: Nov. 16, 2011

Andrea Hsia / Specialist

APPROVED BY : \_\_\_\_\_\_ , DATE : \_\_\_\_ Nov. 16, 2011

Gary Chang / Technical Manage



#### 2. RF EXPOSURE

#### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)		AVERAGE TIME (minutes)				
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE								
300-1500			F/1500	30				
1500-100,000			1.0	30				

F = Frequency in MHz

#### 2.2 MPE CALCULATION FORMULA

Pd = (Pout\*G) / (4\*pi\*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

#### 2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

#### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
21.8	1.69	20	0.044	1

Report No.: SA990423C17C Reference No.: 110729C23 5