



# RF EXPOSURE REPORT

**REPORT NO.:** SA121010C01B

**MODEL NO.:** E504

**FCC ID:** UZI-P04E68

**RECEIVED:** Jan. 21, 2013

**TESTED:** Jan. 29 ~ Jan. 30, 2013

**ISSUED:** Feb. 06, 2013

**APPLICANT:** BandRich Inc.

**ADDRESS:** 6F., No. 71, Zhouzi St., Neihu Dist., Taipei City  
11493, Taiwan (R.O.C.)

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

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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.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA121010C01B	Original release	Feb. 06, 2013



# 1 CERTIFICATION

**PRODUCT:** LTE Outdoor CPE  
**MODEL NO.:** E504  
**BRAND:** BandLuxe  
**APPLICANT:** BandRich Inc.  
**TESTED:** Jan. 29 ~ Jan. 30, 2013  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TEST STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
IEEE C95.1

The above equipment (model: E504) 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** : Ivy Lin , **DATE** : Feb. 06, 2013  
Ivy Lin / Specialist

**APPROVED BY** : Anderson Chiu , **DATE** : Feb. 06, 2013  
Anderson Chiu / Senior Engineer

# 1. RF EXPOSURE

## 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 2.2 MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

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

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
LTE 1712.5~1752.5 MHz	28.02	20	0.126	1