



# RF EXPOSURE REPORT

**REPORT NO.:** SA111024C01  
**MODEL NO.:** WLU6117-D69(RoHS)  
**FCC ID:** BKMFBWLU6117  
**RECEIVED:** Oct. 24, 2011  
**TESTED:** Oct. 26 ~ Oct. 28, 2011  
**ISSUED:** Oct. 31, 2011

**APPLICANT:** Seiko Epson Corporation

**ADDRESS:** 3-3-5 Owa Suwa-shi Nagano-Ken 392-8502  
Japan

**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.



A D T

## TABLE OF CONTENTS

|  |   |
|--|---|
| RELEASE CONTROL RECORD .....                           | 3 |
| 1. CERTIFICATION .....                                 | 4 |
| 2. RF EXPOSURE.....                                    | 5 |
| 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)..... | 5 |
| 2.2 MPE CALCULATION FORMULA .....                      | 5 |
| 2.3 CLASSIFICATION .....                               | 5 |
| 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER..... | 5 |



A D T

## RELEASE CONTROL RECORD

| ISSUE NO.        | REASON FOR CHANGE | DATE ISSUED   |
|------------------|-------------------|---------------|
| Original release | NA                | Oct. 31, 2011 |



## 2. 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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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) | MAX POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm <sup>2</sup> ) | LIMIT (mW/cm <sup>2</sup> ) |
|----------------------|-----------------|--------------------|---------------|--------------------------------------|-----------------------------|
| 2412-2462            | 25.3            | 0.76               | 20            | 0.080                                | 1.00                        |