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# RF EXPOSURE REPORT

**REPORT NO.:** SA130422C26

**MODEL NO.:** DGL-5500

**FCC ID:** KA2GL5500A1

**RECEIVED:** Apr. 22, 2013

**TESTED:** Apr. 22 ~ May 29, 2013

**ISSUED:** May 29, 2013

**APPLICANT:** D-Link Corporation

**ADDRESS:** 17595 Mt. Herrmannm, Fountain Valley,  
California, United States

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

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**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130422C26	Original release	May 29, 2013

## 1. CERTIFICATION

**PRODUCT:** Wireless AC1300 Gaming Router  
**MODEL NO.:** DGL-5500  
**BRAND:** D-Link  
**APPLICANT:** D-Link Corporation  
**TESTED:** Apr. 22 ~ May 29, 2013  
**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: DGL-5500) 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 :** Polly Chien , **DATE :** May 29, 2013  
Polly Chien / Specialist

**APPROVED BY :** Ken Liu , **DATE :** May 29, 2013  
Ken Liu / Senior Manager

## 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	29.87	4.8	20	0.583	1
5180-5240	16.81	3.01	20	0.019	1
5745-5825	25.78	3.01	20	0.151	1

**NOTE:**

**2.4GHz:** Directional gain = 0dBi + 10log(3) = 4.8dBi

**5GHz:** Directional gain = 0dBi + 10log(2) = 3.01dBi

**--END---**