

## RF Exposure Report

**Report No.:** SA150211C07

**FCC ID:** KA2CHS160A1

**Test Model:** DCH-S160

**Received Date:** Feb. 11, 2015

**Test Date:** Mar. 12 ~ Mar. 18, 2015

**Issued Date:** Mar. 24, 2015

**Applicant:** D-LINK CORPORATION

**Address:** 17595 Mt. Hermann, Fountain Valley, CA 92708, U.S.A.

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

**Lab Address:** No. 47-2, 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 Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA150211C07	Original release	Mar. 24, 2015



## 1 Certificate of Conformity

**Product:** mydlink™ Wi-Fi Water Sensor

**Brand:** D-Link

**Test Model:** DCH-S160

**Sample Status:** Engineering sample

**Applicant:** D-LINK CORPORATION

**Test Date:** Mar. 12 ~ Mar. 18, 2015

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment 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 :**  , **Date:** Mar. 24, 2015  
Suntee Liu / Specialist

**Approved by :**  , **Date:** Mar. 24, 2015  
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)
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

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

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.

## 3 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	27.50	3.01	20	0.224	1

Note:

2412-2462MHz Directional gain = 0dBi + 10log(2) = 3.01dBi

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