RF Exposure Report

Report No.:	SA171002C22
FCC ID:	KA2WL3610APA1
Model:	DWL-3610AP
Received Date:	Oct. 02, 2017
Test Date:	Nov. 10 ~ Dec. 27, 2017
Issued Date:	Dec. 29, 2017
Applicant:	D-Link Corporation
Address:	17595 Mt. Herrmann, Fountain Valley, California, United States, 92708
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
SA171002C22	Original release	Dec. 29, 2017

1 Certificate of Conformity

Product:	Unified AC Selectable Dual-band PoE Access Point
Brand:	D-Link
Model:	DWL-3610AP
Sample Status:	Identical Prototype
Applicant:	D-Link Corporation
Test Date:	Nov. 10 ~ Dec. 27, 2017
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D03 (January 17, 2014) 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 RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Dec. 29, 2017

Pettie Chen / Senior Specialist

Approved by : _____ , **Date:** Dec. 29, 2017

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^2)	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

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

where

Pd = power density in mW/cm^2

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**.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
CDD Mode					
2412-2462	29.24	5.91	20	0.651	1
5180-5240	22.34	6.01	20	0.136	1
5260-5320	23.76	6.01	20	0.189	1
5500-5700	23.75	6.01	20	0.188	1
5745-5825	24.16	5.86	20	0.200	1
Beamforming Mode					
2412-2462	29.24	5.91	20	0.651	1
5180-5240	23.50	6.01	20	0.178	1
5260-5320	23.66	6.01	20	0.184	1
5500-5700	23.75	6.01	20	0.188	1
5745-5825	23.56	5.86	20	0.174	1

Note:
2.4GHz Band: Directional gain = 10 $\log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10})/N_{ANT}]$ = 5.91dBi
5.180-5.240GHz, 5.260-5.320GHz, 5.500-5.700GHz: Directional gain = 3dBi+10log (2) = 6.01dBi
5.745-5.825GHz: Directional gain = 10 $\log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10})/N_{ANT}]$ = 5.86dBi

*2.4GHz & 5GHz cannot transmit at same time.

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