

RF Exposure Report

Report No.: SA170801C12B

FCC ID: KA2WL6620APSA1

Test Model: DWL-6620APS

Received Date: Aug. 01, 2017

Test Date: Aug. 22 ~ Sep. 11, 2017

Issued Date: Jun. 25, 2018

Applicant: D-Link Corporation

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

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(R.O.C.)

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN (R.O.C.)

FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
SA170801C12B	Original release.	Jun. 25, 2018

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1 Certificate of Conformity

Product: Unified AC Concurrent Dual-band PoE Access Point

Brand: D-Link Corporation

Test Model: DWL-6620APS

Sample Status: Identical Prototype

Applicant: D-Link Corporation

Test Date: Aug. 22 ~ Sep. 11, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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: (e) IN & (how, Date: Jun. 25, 2018

Celine Chou / Specialist

Approved by: , Date: Jun. 25, 2018

Bruce Chen / Project Engineer



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/cm²)	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/cm²

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 29cm away from the body of the user. So, this device is classified as Mobile Device.

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3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)				
CDD Mode									
2412-2462	27.70	7.91	29	0.344	1				
5180-5240	27.82	9.11	29	0.467	1				
5260-5320	22.69	9.11	29	0.143	1				
5500-5720	22.93	9.11	29	0.151	1				
5745-5825	28.88	9.11	29	0.596	1				
Beamforming Mode									
2412-2462	24.53	7.91	29	0.166	1				
5180-5240	24.81	9.11	29	0.233	1				
5260-5320	19.68	9.11	29	0.072	1				
5500-5720	19.92	9.11	29	0.076	1				
5745-5825	25.87	9.11	29	0.298	1				

Note:

2.4GHz Directional gain = 4.9dBi + 10log(2) = 7.91dBi

5GHz Directional gain = 6.1dBi + 10log(2) = 9.11dBi

Conclusion:

2.4GHz & 5GHz technology can transmit at same time.

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WALN 2.4GHz + WALN 5GHz = 0.344 + 0.596 = 0.940

Therefore the maximum calculations of above situations are less than the "1" limit.

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