RF Exposure Report

Report No.:	SA180702E06
FCC ID:	KA2IR2660A1
Test Model:	DIR-2660
Received Date:	Mar. 15, 2017
Test Date:	Mar. 15, 2017 to Aug. 23, 2018
Issued Date:	Dec. 12, 2018
Applicant:	D-Link Corporation
Address:	17595 Mt. Herrmann Street Fountain Valley, CA92708 USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA180702E06	Original release.	Dec. 12, 2018

1 Certificate of Conformity

Product:	AC2600 Mesh-Enabled Smart Wi-Fi Router
Brand:	D-Link
Test Model:	DIR-2660
Sample Status:	ENGINEERING SAMPLE
Applicant:	D-Link Corporation
Test Date:	Mar. 15, 2017 to Aug. 23, 2018
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 EMC characteristics under the conditions specified in this report.

Prepared by : Phoenix Huang , **Date:** Dec. 12, 2018

Phoenix Huang / Specialist

Approved by : , **Date:** Dec. 12, 2018

May Chen / 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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

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 38cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Connecter Type
2.4~2.4835	10.06	Dipole	i-pex(MHF)
5.15~5.85	10.90	Dipole	i-pex(MHF)
Note: More detailed information, please refer to operating description.			

2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN 2.4GHz	2437	788.724	10.06	38	0.44070	1
WLAN 5GHz (U-NII-1)	5180	322.367	10.90	38	0.21856	1
WLAN 5GHz (U-NII-2A)	5310	161.371	10.90	38	0.10941	1
WLAN 5GHz (U-NII-2C)	5510	159.71	10.90	38	0.10828	1
WLAN 5GHz (U-NII-3)	5785	655.424	10.90	38	0.44437	1

Note:
2.4GHz: Directional gain = 10.06dBi
5GHz: Directional gain = 10.90dBi

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.44070 / 1 + 0.44437 / 1 = 0.88507

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

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