

RF Exposure Report

Report No.: SABDUI-WTW-P20110877A

FCC ID: KA2M15A1

Test Model: M15

Received Date: Feb. 25, 2021

Test Date: May 15 ~ Jul. 09, 2021

Issued Date: Jan. 20, 2022

Applicant: D-Link Corporation

Address: 14420 Myford Road Suite 100 Irvine California United States 92606

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

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

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

33383, Taiwan

FCC Registration /

Designation Number: 788550 / TW0003





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Release Control Record

Issue No.	Description	Date Issued
SABDUI-WTW-P20110877A	Original release	Jan. 20, 2022

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1 Certificate of Conformity

Product: AX1500 Wi-Fi 6 Al Mesh Router, AX1500 Wi-Fi 6 Al Mesh System,

AX1500 Mesh Router, AX1500 Mesh System

Brand: D-Link

Test Model: M15

Sample Status: Engineering sample

Applicant: D-Link Corporation

Test Date: May 15 ~ Jul. 09, 2021

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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: Pettie Cher, Date: Jan. 20, 2022

Pettie Chen / Senior Specialist

Approved by: Jeveny Lin , Date: Jan. 20, 2022

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	, .		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/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 20cm 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 Average Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)				
CDD Mode									
2412-2462	27.19	5.45	20	0.365	1				
5180-5240	24.48	5.45	20	0.196	1				
5260-5320	23.52	5.55	20	0.161	1				
5500-5700	21.53	5.61	20	0.103	1				
5745-5825	23.91	5.58	20	0.177	1				
Beamforming Mode									
2412-2462	23.28	5.45	20	0.149	1				
5180-5240	21.23	5.45	20	0.093	1				
5260-5320	20.51	5.55	20	0.080	1				
5500-5700	18.52	5.61	20	0.051	1				
5745-5825	20.90	5.58	20	0.088	1				

^{*}Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Note:

1. Directional gain:

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2.4GHz: Directional gain = 10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.45dBi 5180-5240MHz: Directional gain = 10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.45dBi 5260-5320MHz: Directional gain = 10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.55dBi 5500-5700MHz: Directional gain = 10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.61dBi 5745-5825MHz: Directional gain = 10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.58dBi
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2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

The simultaneous operation mode was determined by client.

WLAN 2.4G+ 5GHz =0.365/1+0.196/1=0.561

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