FCC RF EXPOSURE REPORT

FCC ID: KA2IRX1560A1

Project No.	:	1910H003
Equipment	:	AX1500 Wi-Fi 6 Router
Brand Name	:	D-Link
Test Model	:	DIR-X1560
Series Model	:	N/A
Applicant	:	D-Link Corporation
Address	:	17595 Mt. Herrmann Fountain Valley,CA92708 USA
Manufacturer	:	D-Link Corporation
Address	:	17595 Mt. Herrmann Fountain Valley,CA92708 USA
Date of Receipt	:	Oct. 10, 2019
Date of Test	:	Oct. 10, 2019~Nov. 10, 2019
Issued Date	:	Nov. 19, 2019
Report Version	:	R00
Test Sample	:	Engineering Sample No.: SH201910112
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Krain. Wu

Prepared by : Krain Wu

young chai

Approved by : Young Chai

Certificate # 5123.03

Add: No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210,China
TEL: +86-021-61765666
Web: www.newbtl.com

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Nov. 19, 2019

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 2.4G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Dipole	N/A	2	N/A
2	N/A	N/A	Dipole	N/A	2	N/A

Note:
(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain for UNII-1=2; for UNII-3=2.

For 5G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Dipole	N/A	2	N/A
2	N/A	N/A	Dipole	N/A	2	N/A

Note:
(2) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain for UNII-1=2; for UNII-3=2.
(3) The EUT incorporates beamforming Function, so Directional gain = GANT + 10 log(NANT) dBi, that is Directional gain for UNII-1=2+10 log(2)dBi =5 dBi; for UNII-3=2+10 log(2)dBi =5 dBi.

2. TEST RESULTS

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. tune up Power (dBm)	Max. tune up Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2	1.5849	30.00	1000	0.31546	1	Complies

For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. tune up Power (dBm)	Max. tune up Power Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
5	3.1623	27.00	501.1872	0.31546	1	Complies

For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. tune up Power (dBm)	Max. tune up Power Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
5	3.1623	29.00	794.3282	0.49998	1	Complies

For the max simultaneous transmission MPE:

2.4G+5G

Power Density (S) (mW/cm^2) 2.4GHz	Power Density (S) (mW/cm^2) 5GHz	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
0.31546	0.49998	0.81544	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report