

FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4EAP610OD

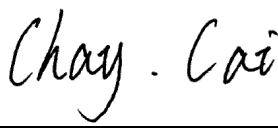
Project No. : 2101C073E
Equipment : AX1800 Indoor/Outdoor Wi-Fi 6 Access Point
Brand Name : tp-link
Test Model : EAP610-Outdoor
Model Name : EAP610-Outdoor
Applicant : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Date of Receipt : Jan. 23, 2026
Date of Evaluation : Feb. 13, 2026
Issued Date : Mar. 30, 2026
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2101C073E	R00	Original Report.	Mar. 30, 2026	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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

2. ANTENNA SPECIFICATION

Antenna Specification:

For 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	EAP610-Outdoor 1.0	Internal	N/A	4.53
2	tp-link	EAP610-Outdoor 1.0	Internal	N/A	4.48

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{4.53/20}+10^{4.48/20})^2/2]$ dBi =7.52.
- 2) Beamforming Gain: 3 dB. Then, Directional gain=3+4.53=7.53.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

For 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	tp-link	EAP610-Outdoor 1.0	Internal	N/A	4.53	UNII-1
2	tp-link	EAP610-Outdoor 1.0	Internal	N/A	4.14	
1	tp-link	EAP610-Outdoor 1.0	Internal	N/A	4.95	UNII-3
2	tp-link	EAP610-Outdoor 1.0	Internal	N/A	5.04	

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain= $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi. Then,
For UNII-1: Directional gain= $10\log[(10^{4.53/20}+10^{4.14/20})^2/2]$ dBi =7.35.
For UNII-3: Directional gain= $10\log[(10^{4.95/20}+10^{5.04/20})^2/2]$ dBi =8.01.
- 2) Beamforming Gain: 3 dB. Then,
For UNII-1: Directional gain=3+4.53=7.53.
For UNII-3: Directional gain=3+5.04=8.04.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

3. CALCULATED RESULT

For 2.4GHz Non Beamforming:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
7.52	5.6494	27.73	592.9253	0.42671	1	Complies

For 2.4GHz Beamforming:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
7.53	5.6624	27.08	510.5050	0.36824	1	Complies

For 5GHz Non Beamforming:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
8.01	6.3241	27.60	575.4399	0.46359	1	Complies

For 5GHz Beamforming:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
8.04	6.3680	27.11	514.0437	0.41699	1	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Total	Limit of Power Density (S) (mW/cm ²)	Test Result
2.4GHz	5GHz			
0.42671	0.46359	0.8903	1	Complies

Note:

(1) The calculated distance is 20 cm.

(2) The data of max. output power are provided by the manufacturer.

End of Test Report