

FCC RF EXPOSURE REPORT

FCC ID: 2BCGWHX510V2

Project No. : 2506C147
Equipment : AX3000 Whole Home Mesh Wi-Fi AP
Brand Name : tp-link
Model Name : HX510
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Issued Date : Aug. 14, 2025
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).

Prepared by :

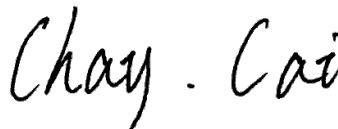
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Sheldon Ou

Approved by :

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Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2506C147	R00	<p>This is a copy report to the original test report (BTL-FCCP-3-2405G108).</p> <ol style="list-style-type: none">1. Changed the FEM FEM.2. Changed the FCC ID.3. Changed the information of applicant and manufacturer. <p>Based on above described changes, no tests were considered necessary. Other are kept the same.</p>	Aug. 14, 2025	Valid

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

2. CALCULATED RESULT

Radio Frequency Radiation Exposure Evaluation

(Worst case)				
Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
WIFI 2.4G	27.69	2	0.18524	1

(Worst case)				
Operating Mode	Max. Tune up Power	Max. Directional Antenna Gain	Power density	Limit
	(dBm)	(dBi)	(mW/ cm ²)	
WIFI 5G	27.41	1	0.13795	1

Note:

1. The calculated distance is 20 cm.

2. The power comes from operation description.

3. The manufacturer declared that the EUT can support WIFI 2.4G&WIFI 5Gsimultaneous emission.

2.4 GHz WiFi + 5 GHz WiFi = 0.18524+ 0.13795= 0.32319 (mW/cm²)

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

Note: The test results reference to report which is provided by the manufacturer.

(Report No.: 4791019221-1-RF-4)

End of Test Report