

RF Exposure Report

Report No.: SA200309D01

FCC ID: 2AATB-WAP-7531

Test Model: WAP-7531

Received Date: Mar. 9, 2020

Test Date: Mar. 17 to 20, 2020

Issued Date: Mar. 24, 2020

Applicant: Tatung Technology Inc.

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

Issue No.	Description	Date Issued
SA200309D01	Original release.	Mar. 24, 2020

1 Certificate of Conformity

Product: Wi-Fi Dual Band Video Bridge

Brand: TTI

Test Model: WAP-7531

Sample Status: Engineering sample

Applicant: Tatung Technology Inc.

Test Date: Mar. 17 to 20, 2020

Standards: FCC Part 2 (Section 2.1091)
IEEE C95.3 -2002

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.

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Approved by : Rex Lai , **Date:** Mar. 24, 2020
Rex Lai / Associate Technical 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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.

2.4 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	21.74	9.52	20	0.2659	1
5180-5240	20.83	10.92	20	0.2977	1
5745-5825	20.57	10.92	20	0.2804	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 5.0GHz: Directional gain = 4.9dBi + 10log(4) = 10.92dBi
2.4GHz: Directional gain = 3.5dBi + 10log(4) = 9.52dBi
3. The EUT was contain FCC ID: TX2RTL8192EEBT of 2.4GHz module.
4. 2.4GHz and 5GHz modes cannot transmit simultaneously.

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