

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

August 05, 2021

Timco Engineering, Inc.
849 NW State Road 45,
Newberry, FL32669

Attention: Bruno Clavier

Re: Application Received: 7/7/2021
Equipment Class: 6ID-15E 6 GHz Low Power Indoor Access Point
Applicant Name: Ubiquiti Inc.
FCC ID: SWX-U6EP
TCB Name: Timco Engineering, Inc.
731 Confirmation Number: TC579257

The application for the above equipment is hereby Dismissed pursuant to Section 2.917(a) of the Rules.

Description of EUT

There is a description that this is a 4 X 4 MIMO however, there is no description of the antenna system or antenna gain. Further, there is no description on antenna direction gain which would be consistent with FCC TCB Presentation Aggregate Antenna Gain Review for MIMO Systems April 2021.

Operating Modes

States that "U6-Enterprise was tested using test software in order to enable to constant transmission of over 98%". However, this does not appear to be consistent with the RF Output Power section in the annex which states Duty Cycles of less than 98%. Further, there are no plots in the report showing what the actual Duty Cycle was.

Summary of Tests

References tests methods but does not include KDB 987594.

Direct Connect at the Antenna Port Tests

This table shows a spectrum analyzer. This would lead one to believe that conducted power was performed with a spectrum analyzer. However, there are no conducted power plots to verify whether testing was performed correctly. Further, there are no PSD plots to confirm PSD measurements

5.4 §15.403(a)(3) Maximum Average Output Power

This table should show the power from each individual chain and then a summation. Further, it should also show the antenna gain used to calculate EIRP.

5.6 §15.407(a) Maximum Power Spectral Density

This table should show the PSD from each individual chain and then a summation. Further, it should also show the antenna gain used to calculate PSD EIRP.

5.3 §15.403(i) 26 dB Emissions Bandwidth

Table only shows one measurement per frequency. There is no mention of multiple chains. Was this the largest bandwidth of any chain?

For radiated emissions tables, there is no example equation. The term "Correction (dB)" in the last column of each table is too vague.

Labeling of the 99% BW and 26 dB BW plots seems to be inconsistent. In many cases, it is difficult to tell one from the other. Further, were measurements performed on each chain?

In-band mask plots do not show RBW and VBW and therefore cannot be verified.

In general, there is inadequate description of how each test was performed.

If you elect to refile for equipment authorization you must submit a currently dated and originally signed Form 731, and all data required by the rule sections applicable to the equipment.

You are cautioned that importation and marketing of equipment in the United states bearing the referenced FCC Identifier is prohibited by Section 2.803 of the Rules. Violation of this regulation may subject you to penalties provided in Section 501 and 502 of the Communications Act of 1934, as amended.

Sincerely,

Louis Knight
Electronics Engineer

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

August 05, 2021

Ubiquiti Inc.
685 Third Avenue,
New York, NY 10017

Attention: Mark Feil

Re: Application Received: 7/7/2021
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Electronics Engineer

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Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

August 05, 2021

Unified Compliance Laboratory
427 West 12800 South,
Draper, UT84020

Attention: Alex Macon

Re: Application Received: 7/7/2021
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