

RF Exposure Report

Report No.: SA181026E06

FCC ID: TLZ-CU345

Test Model: AW-CU345

Received Date: Oct. 26, 2018

Test Date: Nov. 12, 2018

Issued Date: Dec. 03, 2018

Applicant: AzureWave Technologies, Inc.

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

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Taiwan R.O.C.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

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FCC Registration /

723255 / TW2022 **Designation Number:**

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Release Control Record

Issue No.	Description	Date Issued
SA181026E06	Original release.	Dec. 03, 2018



1 Certificate of Conformity

Product: IEEE 802.11 b/g/n + Bluetooth 5.0 LE WLAN/BT Microcontroller Module

Brand: AzureWave

Test Model: AW-CU345

Sample Status: ENGINEERING SAMPLE

Applicant: AzureWave Technologies, Inc.

Test Date: Nov. 12, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 EMC characteristics under the conditions specified in this report.

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Prepared by :		_ ,	Date:	Dec. 03, 2018
	Mary Ko / Specialist			
Approved by :			Date:	Dec. 03, 2018
Approved by .	//	_ '	Date	Dec. 03, 2010
	May Chen / 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

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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**.

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2.4 Antenna Gain

Brand	Model	Model Antenna Net Gain (dBi)		Antenna Type	Connector Type
LYNwave	ALX18M-052AA2	2.81	2.4~2.5	PIFA	NA

2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WLAN 2.4GHz	2437	351.56	2.81	20	0.13358	1
BT-LE	2402	0.7379	2.81	20	0.00028	1

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