

RF Exposure Report

Report No.: SA171227C14

FCC ID: A8J-ENS202EXTV2

Test Model: ENS202EXTv2, ENS202v2

Received Date: Dec. 27, 2017

Test Date: Jan. 15 ~ Jan. 24, 2018

Issued Date: Jan. 31, 2018

Applicant: EnGenius Technologies

Address: 1580 Scenic Avenue, Costa Mesa, CA92626

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

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA171227C14	Original release.	Jan. 31, 2018

1 Certificate of Conformity

Product: N300 2.4GHz Outdoor AP

Brand: EnGenius®

Test Model: ENS202EXTv2, ENS202v2

Sample Status: Engineering sample

Applicant: EnGenius Technologies

Test Date: Jan. 15 ~ Jan. 24, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

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.

Prepared by : Alice Ho , **Date:** Jan. 31, 2018
Alice Ho / Specialist

Approved by : Bruce Chen , **Date:** Jan. 31, 2018
Bruce Chen / Project Engineer

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				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

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.

3 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)
External antenna					
WLAN 2412~2462	22.00	8.18	20	0.207	1
Internal antenna					
WLAN 2412~2462	22.00	10.37	20	0.343	1

Note:

- External antenna: Directional gain = 5.17dBi + 10log(2) = 8.18dBi
- Internal antenna: Directional gain = 7.36dBi + 10log(2) = 10.37dBi

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