	<u>BUREAU</u> VERITAS		
	RF Exposure Report		
Report No.:	SA181107C49		
FCC ID:	A8J-ENSTACV2		
Test Model:	EnStationACv2		
Received Date:	Nov. 07, 2018		
Test Date:	Nov. 15 ~ Nov. 27, 2018		
Issued Date:	Dec. 07, 2018		
Applicant:	EnGenius Technologies		
Address:	1580 Scenic Avenue, Costa Mesa, CA92626		
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch		
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)		
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:			
-			
	TAE		
	Iac-MRA		
	Testing Laboratory 2021		

unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



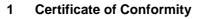
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Release Control Record

Issue No.	Description	Date Issued
SA181107C49	Original release	Dec. 07, 2018



Product:	Outdoor Long Range Wireless Access Point	
Brand:	EnGenius	
Test Model:	EnStationACv2	
Sample Status:	Engineering sample	
Applicant:	EnGenius Technologies	
Test Date:	Nov. 15 ~ Nov. 27, 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 RF characteristics under the conditions specified in this report.

Prepared by :	Celine Chou	, Date:	Dec. 07, 2018
	Celine Chou / Senior Specialist		

Approved by :

Date: Dec. 07, 2018

Bruce Chen / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			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

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*G) \ / \ (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \ \mathsf{density} \ \mathsf{in} \ \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \ \mathsf{power} \ \mathsf{to} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \ \mathsf{of} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{linear} \ \mathsf{scale} \\ \mathsf{Pi} = 3.1416 \\ \mathsf{R} = \mathsf{distance} \ \mathsf{between} \ \mathsf{observation} \ \mathsf{point} \ \mathsf{and} \ \mathsf{center} \ \mathsf{of} \ \mathsf{the} \ \mathsf{radiator} \ \mathsf{in} \ \mathsf{cm} \end{array}$

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)
CDD Mode					
2412-2462	15.53	3.81	20	0.017	1
5180-5240	7.77	15.50	20	0.042	1
5745-5825	20.49	15.50	20	0.790	1
Beamforming Mode					
5180-5240	4.76	15.50	20	0.021	1
5745-5825	17.48	15.50	20	0.395	1

Note: 5GHz: Directional gain = 15.5dBi + 10log(2) = 18.51dBi

Conclusion:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

2.4G + 5G = 0.017 + 0.790 = 0.807

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

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