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Release Control Record Description Issue No. Date Issued SA191025C12 Original release. Nov. 14, 2019



1Certificate of ConformityProduct:Wireless AP/Client/GatewayBrand:DeltaDeltaDVW-W01I2-E1Series Model:DVW-W01I2-E1-CN, DVW-W01I2-E1-EUSample Status:Engineering sampleApplicant:Delta Electronics, Inc.Test Date:Oct. 31 ~ Nov. 04, 2019Standards:FCC Part 2 (Section 2.1091)References Test
Guidance:KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.3 -2002

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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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			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

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

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)
WLAN 2412~2462	24.31	5.79	20	0.204	1
WLAN 5180~5240	21.31	6.22	20	0.113	1
WLAN 5745~5825	21.60	6.22	20	0.120	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2412~2462MHz Directional Gain = 2.78dBi + 10log(2) = 5.79dBi 5180~5825MHz Directional Gain = 3.21dBi + 10log(2) = 6.22dBi

Conclusion: The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

2.4GHz + 5GHz = 0.204 / 1 + 0.120 / 1 = 0.324 < 1

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

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