	BUF VER
	RF Exposure Report
Report No.:	SA191112C03-1
FCC ID:	E2K-DWRFID1901
Test Model:	DWRFID1901
Received Date:	Nov. 12, 2019
Date of Evaluation:	Nov. 29, 2019
Issued Date:	Dec. 04, 2019
Applicant:	Dell Inc.
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Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / Designation Number:	33383, TAIWAN 788550 / TW0003
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	CARA TESTING LABORATORY 2021

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		VERITAS			
Release Control Record					
Issue No.	Description	Date Issued			
SA191112C03-1	Original Release	Dec. 04, 2019			



1 Certificate of Co	Certificate of Conformity					
Product:	RFID 13.56MHz Wireless Module					
Brand:	DELL					
Test Model:	DWRFID1901					
Sample Status:	Production Unit					
Applicant:	Dell Inc.					
Date of Evaluation:	Nov. 29, 2019					
Standards:	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.

Prepared by :

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Date:

Dec. 04, 2019

Approved by :

Aph L.

Date: Dec. 04, 2019

Dylan Chiou / Project Engineer



2 Evaluation Result

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- > f(GHz) is the RF channel transmit frequency in GHz.
- > Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is < 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50mm) · (f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



3 SAR Test Exclusion Thresholds

Frequency (MHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE)	1-g SAR test exclusion thresholds	Result
13.56	0.0000134	5	0.0000134	442.973	Pass

Maximum measured transmitter power:

Note:

1. Calculate SAR test exclusion thresholds from condition "3" formulas.

2. Max power (dBm) = Field Strength of Fundamental (dBuV/m) -95.23, Max power (mW) = 10 (Max power (dBm)/10)

4 Conclusion

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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