	RF Exposure Report			
Report No.:	MFBEDW-WTW-P22090622			
FCC ID:	E2K-DWRFID2203			
Test Model:	DWRFID2203			
Received Date:	Sep. 20, 2022			
Test Date:	Oct. 31 ~ Nov. 01, 2022			
Issued Date:	Nov. 21, 2022			
Applicant:	Dell Inc.			
Address:	One Dell Way, Round Rock, Texas 78682, USA			
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories			
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan			
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN			
FCC Registration / Designation Number:	788550 / TW0003			
	Testing Laboratory 2021			
http://www.bureauveritas.com/home/about- to or for any other person or entity, or use oo to the test samples identified herein. The re was taken or any similar or identical produ upon the information that you provided to u acceptance criteria without taking measure notify us of any material error or omission of shall specifically address the issue you v	corporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <u>us/our-business/cps/about-us/terms-conditions/</u> and is intended for your exclusive use. Any copying or replication of this report our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect sults set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample to unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based s. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple ment uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to aused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the icted and the correctness of the report contents.			



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# **Release Control Record**

Issue No. Description		Date Issued
MFBEDW-WTW-P22090622	Original release	Nov. 21, 2022

#### 1 Certificate of Conformity

Product:	RFID 13.56MHz Wireless Module			
Brand:	DELL			
Test Model:	DWRFID2203			
Sample Status:	Production Unit			
Applicant:	Dell Inc.			
Test Date:	Oct. 31 ~ Nov. 01, 2022			
FCC Rule Part:	FCC Part 2 (Section 2.1091)			
Standards:	KDB 447498 D01 General RF Exposure Guidance v06			

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:	Nov. 21, 2022
Celine Chou / Senior Specialist		

Approved by :

Jerem .	G.	Lin	

**Date:** Nov. 21, 2022

Jeremy Lin / Project Engineer

### 2 Evaluation Result

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

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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  $\le 7.5$  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)·10] mW at > 1500 MHz and ≤ 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

Maximum measured transmitter power:

Frequency (MHz)	Field Strength (dBuV/m@3m)		Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE)</sup>	1-g extremity SAR test exclusion thresholds	Result
13.56	40.5	0.000003365	5	0.000003365	1107.433774	Pass

Note:

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

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

3. Field Strength (dBuV/m@3m) = Field Strength (dBuV/m@30m) + 40\*log(30/3).

4. Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m) – 95.23,

Max Power (mW) =  $10^{A(Max power (dBm)/10)}$ 

#### 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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