

# **RF Exposure Report**

Report No.: SA170110C03A

FCC ID: E2K-K02T

Test Model: K02T

Received Date: Jan. 10, 2017

Test Date: Mar. 16 ~ Mar. 17, 2017

**Issued Date:** Mar. 29, 2017

Applicant: Dell Inc.

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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
SA170110C03A	Original release	Mar. 29, 2017

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#### 1 Certificate of Conformity

Product: Wireless Charging Keyboard

Brand: Dell

Test Model: K02T

Sample Status: Production Unit

Applicant: Dell Inc.

**Test Date:** Mar. 16 ~ Mar. 17, 2017

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 EMC characteristics under the conditions specified in this report.

**Prepared by :** , **Date:** Mar. 29, 2017

Pettie Chen / Senior Specialist

Ken Liu / Senior Manager

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#### 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)]  $\cdot [\sqrt{f(GHz)}]$   $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,16 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.</p>
- 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
- 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  $\frac{1}{2}$  for test separation distances  $\leq$  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.

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#### 3 Calculation Result of Maximum Conducted Power

Mode	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	10-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	1.5	5	0.465	7.5	Pass

NOTE: 1. The antenna type is Ceramic antenna with 0.5dBi gain.

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

### 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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