

RF Exposure Report

Report No.: SA150713D10

FCC ID: C3K1737

Test Model: 1737

Received Date: Jun. 28, 2015

Test Date: Jun. 28 ~ Jul. 13, 2015

Issued Date: Jul. 17, 2015

Applicant: MICROSOFT CORPORATION

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Table of Contents

Release Control Record.....	3
1 Certificate of Conformity.....	4
2 Evaluation Result.....	5
3 SAR Test Exclusion Thresholds	6
4 Conclusion.....	6



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Release Control Record

Issue No.	Description	Date Issued
SA150713D10	Original release.	Jul. 17, 2015

1 Certificate of Conformity

Product: Wireless Mouse

Brand: Microsoft®

Test Model: 1737

Sample Status: Engineering sample

Applicant: MICROSOFT CORPORATION

Test Date: Jun. 28 ~ Jul. 13, 2015

Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D03

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 :


(Jessica Cheng / Senior Specialist)

, **Date:** Jul. 17, 2015

Approved by :


(Rex Lai / Assistant Manager)

, **Date:** Jul. 17, 2015

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
 - Ø $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
 - Ø Power and distance are rounded to the nearest mW and mm before calculation.
 - Ø 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 $[1 + \log(100/f(\text{MHz}))]$ 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 ≤ 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 (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	10-g extremity SAR test exclusion thresholds	Result
2.403 ~ 2.480	0.998	5	0.309	7.5	Pass

NOTE: 1 The antenna type is PCB 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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