

RF Exposure Report

Report No.: SA170726E03

FCC ID: B94VCVRA1714

Test Model: VCVRA-1714

Received Date: July 26, 2017

Test Date: Aug. 22, 2017

Issued Date: Sep. 07, 2017

Applicant: HP Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Release Control Record

Issue No.	Description	Date Issued
SA170726E03	Original release.	Sep. 07, 2017

1 Certificate of Conformity

Product: HP Sprocket 2-in-1 Printer

Brand: hp

Test Model: VCVRA-1714

Sample Status: MASS-PRODUCTION

Applicant: HP Inc.

Test Date: Aug. 22, 2017

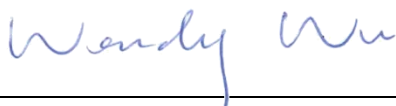
Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 :



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Date:

Sep. 07, 2017

Approved by :



May Chen / Manager

Date:

Sep. 07, 2017

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:
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$
$$\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
 - $f(\text{GHz})$ 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) · ($f(\text{MHz})/150$)] 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

BT-EDR Avg. Power Table

Channel	Frequency (MHz)	GFSK				8DPSK			
		Peak Power		Avg. Power		Peak Power		Avg. Power	
		(dBm)	(mW)	(dBm)	(mW)	(dBm)	(mW)	(dBm)	(mW)
0	2402	1.74	1.493	0.54	1.132	0.49	1.119	-1.12	0.7727
39	2441	1.91	1.552	0.69	1.172	0.83	1.211	-0.85	0.8222
78	2480	1.89	1.545	0.66	1.164	0.81	1.205	-0.91	0.811

For BT-EDR SAR Test Exclusion Thresholds

Frequency (GHz)	Max Avg. Power (dBm)	*Max Time Avg. Power (dBm)	Max Time Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 1)	10-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	0.69	-14.36	0.037	5	0.012	7.5	Pass

NOTE: 1. Calculate SAR test exclusion thresholds from condition "1" formulas.
2. *Time Avg. Power=Avg. Power+Duty factor

BT-EDR Duty Cycle of Test Signal

Duty Cycle	Tx on (ms)	Tx total (ms)	Duty Factor (dB)
	3.125	296.25	-15.05

NOTE: 1.The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: $10\log(3.125 / 100) = -15.05$ dB

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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