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RF EXPOSURE REPORT





Applicant: Darfon Electronics Corp.

167, Shanying Road, Gueishan, Taoyuan 333, Taiwan

Manufacturer: HP Inc.

1501 Page Mill Road, Palo Alto, CA 94304, USA

Product Name: Wireless Keyboard

Brand Name: HP

Model No.: TPA-D003K

Model Difference: N/A

Report Number: TESA2308000466ES

FCC ID O62-TPAD003K

Date of EUT Received: August 11, 2023

January 5, 2024 **Issue Date:**

Approved By

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History						
Report Number Revision		Description	Issue Date	Issue Date Revised By		
TESA2308000466ES	00	Original	December 1, 2023	Celery Wei		
TESA2308000466ES	01	Modify comments	December 26, 2023	Celery Wei	*	
TESA2308000466ES	02	Modify comments	December 29, 2023	Celery Wei	*	
TESA2308000466ES	03	Modify Section 1.4.1	January 4, 2024	Celery Wei	*	
TESA2308000466ES	04	Modify note in revision history	January 5, 2024	Celery Wei	*	

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification body.
- 2 · Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 3 · Bluetooth and SRD 2.4GHz functions cannot operate at the same time.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Wireless Keyboard
Brand Name:	HP
Model No.:	TPA-D003K
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	9CH3010001
Power Supply:	3Vdc from AAA Battery

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab.
Report Number:	TERF2308001965E2, TERF2308001966E2

1.3 Antenna Information:

The antenna information is provided by the applicant.

1.3.1 BT / SRD 2.4GHz

Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Unictron	AA055U	2.4GHz	1.80

1.4 Rated Power

1.4.1 Bluetooth / SRD 2.4GHz

Mode	Freq. Range (MHz)	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)
BLE	2402	GFSK	0.15	1.80	1.95
2.4G	2476	GFSK	-16.03	1.80	-14.23

Note: EIRP[dBm] = E[dBuV/m] - 95.2, for d = 3 m for E-field.

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RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $\lceil \sqrt{f(GHz)} \rceil \le 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand 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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
- Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
 - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm) · (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and \leq 6 GHz
- Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
 - 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
 - 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by 1/2
 - 3) SAR measurement procedures are not established below 100 MHz

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2.2 **Measurement Result:**

BT

Step a:

This is a portable device and the max. output power including tune-up tolerance is 1.035 (mW), lower than the threshold given and derived as formula given above, where

 $=1.035 (mW)/5 (mm)*\sqrt{2.402 (GHz)} = 0.321 < 3.0$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)		l lietanca	Result	≤ 3.0 for 1-g SAR
2402	0.15	1.035	5	0.321	TRUE

SRD 2.4GHz

Step a:

This is a portable device and the max. output power including tune-up tolerance is 0.025 (mW), lower than the threshold given and derived as formula given above, where

 $=0.025 \text{(mW)/5(mm)}^*\sqrt{2.476 \text{(GHz)}} = 0.008 < 3.0$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	l)ietance	Result	≤ 3.0 for 1-g SAR
2476	-16.03	0.025	5	0.008	TRUE

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

~ End of Report ~

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