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RF EXPOSURE REPORT

FCC Applicant: Quanta Computer Inc.

No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City,

Taiwan

Product Name: QOCA Pulse Oximeter

Brand Name: Quanta, QOCA

Model No.: o2c

Model Difference: N/A

Report Number: TESA2306000384ES

FCC ID HFSMHR

Issue Date: Oct. 19, 2023

Date of EUT Received: Jun. 29, 2023

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	Revised By	Remark		
TESA2306000384ES	00	Original.	Oct. 11, 2023	Kimmy Chiou			
TESA2306000384ES	01	Modify comment	Oct. 19, 2023	Kimmy Chiou	*		

Note:

1. The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	QOCA Pulse Oximeter
Brand Name:	Quanta, QOCA
Model No.:	o2c
Model Difference:	N/A

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab
Report Number:	TERF2306001631E2

1.3 Antenna Information:

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
FPC	Pulse (Suzhou) Wireless Products co.	TQ23723	2.4GHz	-2.51

The antenna information is provided by the applicant.

1.3.1 BLE / WLAN 2.4GHz

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BLE	2402-2480	40	GFSK	4	-2.51	1.49	V

Note: Antenna information is provided by the applicant.

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RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 **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-q and 10-q 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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Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 2.512 (mW), lower than the threshold given and derived as formula given above, where

 $=2.512(\text{mW})/5(\text{mm})^*\sqrt{2.48(\text{GHz})} = 0.791 < 7.5$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 7.5 for 10-g extremity SAR
2480	4	2.512	5	0.791	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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