

# **RF EXPOSURE REPORT**

Applicant:	<i>OF</i> Quanta Computer Inc. No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan
Product Name:	Taiwan QOCA Portable ECG Monitoring Device
Brand Name:	Quanta
Model No.:	Q-ecg-wu3, Q-ecg-wu5
Model Difference:	Refer to page 3 for detail
Report Number:	ER/2019/60134
FCC ID	HFSCIB
FCC Rule Part	Part 2.1093
Issue Date:	Oct. 01, 2019
Date of Test:	Jul. 02, 2019 ~ Jul. 24, 2019
Date of EUT Received:	Jul. 02, 2019

#### We hereby certify that:

Approved By:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

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

John Yeh / Asst. Manager



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# **Revision History**

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2019/60134	ER/2019/60134 Rev.00		All	Sep. 23, 2019	Yuri Tsai
ER/2019/60134	ER/2019/60134 Rev.01 Updated FCC Rule P		1	Oct. 01, 2019	Yuri Tsai

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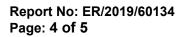
# **Model Difference:**

			1. Charge current: 265mA R283:3.83k
Model Difference:	J. J	2. Battery: 3.8V / 530mAh (AHA11106009)	
		3. Antenna: QTCIBBLPB01+A	
	Q-ecg-wu5	1. Charge current: 112mA R283:9.09k	
		2. Battery: 3.8V / 220mAh (AHA11103009)	
			3. Antenna: QTCIBBLPB02+A

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# 1 RF EXPOSURE

## 1.1 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.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 4.3.1, The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  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 Head & Body SAR and  $\leq 7.5$  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

### **1.2 Measurement Result:**

Step 1:

This is a portable device and the max. output power including tune-up tolerance is 2.339 (mW), lower than the threshold given and derived as formula given above, where

=2.339(mW)/5(mm)\*√2.402 (GHz) =0.725< 3.0

Frequency (MHz) Max. output power including tune-up tolerance(dBm)		Max. output power including tune-up tolerance(mW)	Distance (mm)	Result
2402	3.69	2.339	5	0.725

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.

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### The table of quick reference in terms of power threshold

#### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq$ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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