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RF EXPOSURE REPORT

Applicant: Quanta Computer Inc.

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

Taiwan (R.O.C.)

Product Name: VR Controller

Brand Name:

, HP, HP Inc.

Marketing Name: HP Reverb G2 Controllers

Model No.: TPC-Q077-C2

Model Difference: N/A

Report Number: E2/2020/60062

FCC ID HFS-A85KL

FCC Rule Part Part 2.1093

Jul. 31, 2020 **Issue Date:**

We hereby certify that:

The data evaluation in this report is in compliance with FCC Rules Part 2. The results of this report relate only to the sample identified in this report.

Approved By:

Yeh John / Asst. Manager





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Revision History					
Report Number	Revision	Description	Issue Date	Remark	
E2/2020/60062	Rev.00	Original.	Jul. 31, 2020	Revised By: Yuri Tsai	

Note:

Multiple Model numbers or Trademarks

The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

Disclaimer

Antenna information and Variant information among trademarks are provided by the applicant, the test results of this report are applicable to the sample EUT received.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

General Information

Product Name:	VR Controller
Brand Name:	, HP, HP Inc.
Marketing Name:	HP Reverb G2 Controllers
Model No.:	TPC-Q077-C2
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3Vdc from AA Battery*2

1.2 **Maximum Output power**

The Max, output power value is derived from below test report(s).

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Report Number:	E2/2020/60057
Test Lab:	SGS Taiwan Ltd.

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SCS Triven Ltd

Notation

PROFIT

TRIFT



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2 STANDARD APPLICABLE

2.1 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.

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)] · [$\sqrt{f(GHz)}$] ≤ 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 $50 \text{ mm} \cdot 10$]} mW, for > 1500 MHz and $\leq 6 \text{ GHz}$

2.2 Measurement Result:

Step a:					
This is a portable device and the max. output power including tune- up tolerance is 2.642 (mW), lower than the threshold given and derived as formula given above, where					
=2.642(m	W)/5(mm)*√2.441	(GHz) =0.826< 3.0			
Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	
2441	4.22	2.642	5	0.826	

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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2.3 The table of quick reference in terms of power threshold

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

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
1900	11	22	33	44	54	Exclusion 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	
\	20	2.5	40	4.5	50	
MHz	30	35	40	45	50	mm
4 = 0	222	271				mm
150	232	271	310	349	387	111111
300	164	192	310 219	349 246	387 274	111111
	164 134	192 157	310 219 179	349 246 201	387 274 224	Hilli
300	164 134 98	192 157 115	310 219 179 131	349 246 201 148	387 274 224 164	Hilli
300 450	164 134	192 157	310 219 179	349 246 201	387 274 224	
300 450 835	164 134 98	192 157 115	310 219 179 131	349 246 201 148	387 274 224 164	SAR Test
300 450 835 900	164 134 98 95	192 157 115 111	310 219 179 131 126	349 246 201 148 142	387 274 224 164 158	SAR Test Exclusion
300 450 835 900 1500	164 134 98 95 73	192 157 115 111 86	310 219 179 131 126 98	349 246 201 148 142 110	387 274 224 164 158 122	SAR Test
300 450 835 900 1500 1900	164 134 98 95 73 65	192 157 115 111 86 76	310 219 179 131 126 98 87	349 246 201 148 142 110 98	387 274 224 164 158 122 109	SAR Test Exclusion
300 450 835 900 1500 1900 2450	164 134 98 95 73 65 57	192 157 115 111 86 76 67	310 219 179 131 126 98 87 77	349 246 201 148 142 110 98 86	387 274 224 164 158 122 109 96	SAR Test Exclusion
300 450 835 900 1500 1900 2450 3600	164 134 98 95 73 65 57 47	192 157 115 111 86 76 67 55	310 219 179 131 126 98 87 77 63	349 246 201 148 142 110 98 86 71	387 274 224 164 158 122 109 96 79	SAR Test Exclusion

<u>Note</u>: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g *SAR Test Exclusion Thresholds* indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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