

RF EXPOSURE REPORT

OF

Applicant: Quanta Computer Inc
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
Taiwan 33377

Product Name: VR Headset

Brand Name:  , HP, HP Inc.

Model No.: TPC-Q077-VH

Model Difference: N/A

Report Number: ER/2020/40125

FCC ID HFS-A85Q

FCC Rule Part Part 2.1093

Issue Date: Jun. 02, 2020

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:

John Teh

Yeh John / Asst. Manager



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	Remark
ER/2020/40125	Rev.00	Original.	Jun. 02, 2020	Revised By: Karen Huang

Note:**1 、 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.

2 、 Disclaimer

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

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**1.1 General Information**

Product Name:	VR Headset	
Brand Name:	 , HP, HP Inc.	
Model No.:	TPC-Q077-VH	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Converter:	Model No.: 117G0-056726-R1, Supplier: Bizlink	
USB Cable:	1. Model No.: 117H0-069031-R1(6M), Supplier: Bizlink 2. Model No.: 117H0-069032-R1(1M), Supplier: Bizlink	
Power Supply:	5V from USB Port or 19.5V from AC Adapter	
	Adapter:	Model No.: TPN-CA14, Supplier: Chicony Power Technology (Chongqing) Co., Ltd.

1.2 Maximum Output power

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

Report Number:	E2/2020/40062
Test Lab:	SGS Taiwan Ltd. Central RF Lab

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2 RF EXPOSURE

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.

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

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 > 50 mm are determined by:

$\{[\text{Power allowed at numeric threshold for 50 mm in step a)] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW
for > 1500 MHz and ≤ 6 GHz

*f (GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation*

2.2 Measurement Result:

Step 1

Measured Values Necessary for Calculations

Bluetooth max power: 11.57dBm = 14.355 mW

Power allowed at numeric threshold for 50 mm in step a is 97 mW, as shown below:

$$\sqrt{f(\text{GHz})} \cdot 2.48 / 3 \cdot 50\text{mm} = 97\text{mW}$$

This value (rounded to the nearest mW for the next calculation) is used in part b (subsection 2)

As shown below to calculate the maximum power allowed:

$$97\text{mW} + [(65\text{mm} - 50 \text{ mm}) \cdot 10] = 247 \text{ mW}$$

The SAR exclusion condition is fulfilled because the output power of 14.355mW for the Bluetooth is less than the calculated threshold of 247mW, and so SAR test exclusion criteria are met, and evaluation is not required for this transmitter.

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The table of quick reference in terms of power threshold

Appendix B

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	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	

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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