

RF EXPOSURE REPORT



FCC Applicant: HTC Corporation
No. 88, Sec. 3, Zhongxing Rd. Xindian Dist., New Taipei City
231, Taiwan

Product Name: Headset

Brand Name: VIVE

Model No.: 2QAL100

Model Difference: N/A

Report Number: ER/2021/30004

FCC ID NM82QAL100

FCC Rule Part Part 2.1093

Issue Date: April 15, 2021

We hereby certify that:

The data evaluation in this report is in compliance with FCC Rules Part 2 & RSS-102.
The results of this report relate only to the sample identified in this report.

Approved By:**John Yeh / 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	Revised By
ER/2021/30004	Rev.00	Original.	April 15, 2021	Yami Kuo

Note:

- 1、Antenna information 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:	Headset	
Brand Name:	VIVE	
Model No.:	2QAL100	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
All in 1 Cable:	Model No.: N/A, Supplier: HTC	
DP Cable:	Model No.: MG 1M-DP-C, Supplier: HTC	
USB Cable:	Model No.: MG 1M-U3-C, Supplier: HTC	
Power Supply:	12Vdc from AC/DC Adapter	
	Adapter:	1. Model No.: TC NE30W-EU, Supplier: HTC 2. Model No.: TC NE30W-UK, Supplier: HTC 3. Model No.: TC NE30W-US, Supplier: HTC

1.2 Antenna Information:

1.2.1 WLAN 2.4GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	N/A	2QAL100	2400~2480	2.66	V
	N/A	2QAL100	2400~2480	-0.48	

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2 FCC STANDARD APPLICABLE

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.

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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g Head \& Body SAR and } \leq 7.5 \text{ for 10-g extremity Hand SAR, where}$$

- $f(\text{GHz})$ 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) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$ mW, for 100 MHz to 1500 MHz
- 2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

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2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 1.318 (mW), lower than the threshold given and derived as formula given above, where

$$=1.318(\text{mW})/5(\text{mm})\cdot\sqrt{2.48(\text{GHz})} = 0.4 < 3.0$$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
2480	1.2	1.318	5	0.4	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.

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