

## RF EXPOSURE REPORT



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

**Product Name:** Link Box

**Brand Name:** VIVE

**Model No.:** 2Q2B300

**Model Difference:** N/A

**Report Number:** ER/2021/30019

**FCC ID** NM82Q2B300

**FCC Rule Part** Part 2.1091

**Issue Date:** April 12, 2021

**We hereby certify that:**

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

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

Approved By: \_\_\_\_\_

*John Yeh / Asst. Manager*

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## Revision History

| Report Number | Revision | Description | Issue Date     | Revised By   |
|---------------|----------|-------------|----------------|--------------|
| ER/2021/30019 | Rev.00   | Original.   | April 12, 2021 | Yi-Shan Tsai |
|               |          |             |                |              |

**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:

|                   |                           |
|-------------------|---------------------------|
| Product Name:     | Link Box                  |
| Brand Name:       | VIVE                      |
| Model No.:        | 2Q2B300                   |
| Model Difference: | N/A                       |
| Hardware Version: | N/A                       |
| Software Version: | N/A                       |
| EUT Series No.:   | 5A11S2W00016              |
| Power Supply:     | 12 Vdc from AC/DC Adapter |

### 1.2 Antenna Information:

#### 1.2.1 BT / BLE

| Antenna Type | Supplier | Antenna Part No. | Freq.  | Peak Antenna Gain (dBi) |
|--------------|----------|------------------|--------|-------------------------|
| PCB          | HTC      | 2Q2B300          | 2.4GHz | -0.1                    |

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## 2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 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.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                         |
| 0.3-1.34  | 614                           | 1.63                          | *(100)                              | 30                      |
| 1.34-30   | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                      |
| 30-300  | 27.5                          | 0.073                         | 0.2                                 | 30                      |
| 300-1500  | /                             | /                             | f/1500                              | 30                      |
| 1500-100000   | /                             | /                             | 1.0                                 | 30                      |

f = frequency in MHz

\* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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## 2.2 Power Density Calculation (Worst Case)

| Operation Mode | Evaluation Frequency (MHz) | Operation Distance (cm) | Max. output Power (dBm) | Antenna Gain (dBi) | Max. output Power EIRP (mW) | Power Density (PD) (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Pass / Fail | Power Density / Limit |
|----------------|----------------------------|-------------------------|-------------------------|--------------------|-----------------------------|--|-----------------------------|-------------|-----------------------|
| BLE            | 2442.00                    | 20                      | 7.44                    | -0.10              | 5.42                        | 0.0011                                   | 1.000                       | Pass        | 0.001                 |

~ End of Report ~

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