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# RF Exposure Evaluation

**FCC ID: 2BVF9-B2W**

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Product Name:     | UVC Travel Case                                              |
| Trade Mark:       | N/A                                                          |
| Model Number:     | B2W                                                          |
| Model Difference: | N/A                                                          |
| Transmitting mode | Keep the EUT in continuously wireless charging mode          |
| Power supply:     | Battery: DC 3.7V<br>Input: DC 5V 1A<br>Wireless Output: 2.5W |
| Date of Receipt:  | Jun. 15, 2026                                                |
| Test Date:        | Jun. 15, 2026 - Jun. 29, 2026                                |
| Date of Report:   | Jun. 29, 2026                                                |

Mode1. Wireless Output Mode(2.5W)

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

## 1 Measuring Standard

According to Part 2.1091 RF exposure is calculated. According KDB 680106 D01 WirelessPower Transfer v04.

## 2 Requirements

- ①According to the item 5 of KDB680106 D01v04:
- ②Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

### 3 Limits

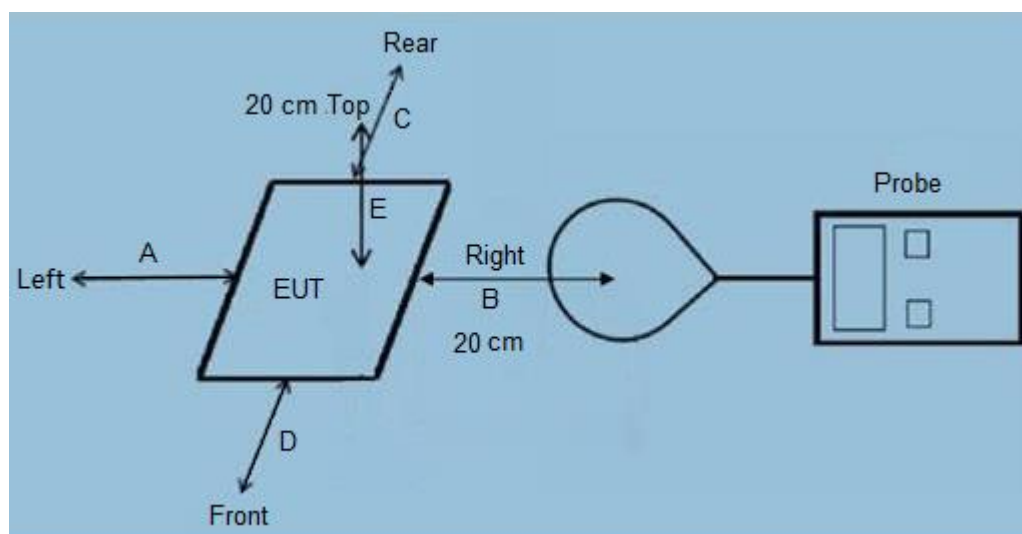
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz)                                   | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|---------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures        |                               |                               |                                     |                          |
| 0.3-3.0                                                 | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                  | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                  | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                | /                             | /                             | f/300                               | 6                        |
| 1500-100,000                                            | /                             | /                             | 5                                   | 6                        |
| (B) 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                       |
| 1500-100,000                                            | /                             | /                             | 1.0                                 | 30                       |

F=frequency in MHz  
\*=Plane-wave equivalent power density  
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

### 4 Test Setup



### 5 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB680106 D01v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

## 6 Description of Support Units

|                                                                            |                                                                       |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Adapter (Provide by test lab):<br>Manufacturer: XIAOMI<br>Model: MDY-14-EU | Toothbrush (Provide by customer):<br>Manufacturer: ODAY<br>Model: L1W |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------|

## 7 Test Instruments list

| Test Equipment                             | Manufacturer | Model No.                    | SN.    | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
|--------------------------------------------|--------------|------------------------------|--------|------------------------|----------------------------|
| Exposure Level Tester                      | Narda        | ELT-400                      | N-0231 | Oct. 25, 2025          | Oct. 24, 2026              |
| Magnetic field probe<br>100cm <sup>2</sup> | Narda        | ELT probe 100cm <sup>2</sup> | M0675  | Oct. 25, 2025          | Oct. 24, 2026              |
| Field Probe                                | ETS          | HI-6105                      | /      | Oct. 25, 2025          | Oct. 24, 2026              |
| Laser Data Interface                       | ETS          | HI-6113                      | /      | Oct. 25, 2025          | Oct. 24, 2026              |

## 8 Test Uncertainty

|                              |   |          |
|------------------------------|---|----------|
| E-Filed Strength(1Hz-400kHz) | : | ±0.08V/m |
| H-Filed Strength(1Hz-400kHz) | : | ±0.02A/m |
| uT                           | : | ±0.01    |

Note: The field intensity value A/m in the report is converted from uT, and the formula is as follows:

$$\text{uT to A/m} \quad A/m = \frac{\mu T}{1.25}$$

## 9 Test Result

### E-Filed Strength at 20 cm from the edges surrounding the EUT

| Frequency Range (MHz) | Test Position A (V/m) | Test Position B (V/m) | Test Position C (V/m) | Test Position D (V/m) | Test Position E (V/m) | Limits (V/m) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
| 0.115-0.205           | 0.13                  | 0.21                  | 0.14                  | 0.23                  | 0.34                  | 614          |

### H-Filed Strength at 20 cm from the edges surrounding the EUT (uT)

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.115-0.205           | 0.418           | 0.706           | 0.718           | 0.628           | 0.716           |

### H-Filed Strength at 20 cm from the edges surrounding the EUT

| Frequency Range (MHz) | Test Position A (A/m) | Test Position B (A/m) | Test Position C (A/m) | Test Position D (A/m) | Test Position E (A/m) | Limits (A/m) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
| 0.115-0.205           | 0.324                 | 0.563                 | 0.567                 | 0.513                 | 0.584                 | 1.63         |

## 10 Test Set-up Photo

