

# **Casta Diva (Xiamen) Network Technology Co., Ltd.**

## **MPE ASSESSMENT REPORT**

**Report Type:**

FCC Part §2.1091 and §1.1307(b) assessment report

**Model:**

CD-K010

**REPORT NUMBER:**

230600106SHA-002

**ISSUE DATE:**

October 8, 2023

**DOCUMENT CONTROL NUMBER:**

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**Applicant:** Casta Diva (Xiamen) Network Technology Co., Ltd  
Room 706, No. 15, Duying Road, Jimei District,Xiamen

**Manufacturer:** Casta Diva (Xiamen) Network Technology Co., Ltd  
Room 706, No. 15, Duying Road, Jimei District,Xiamen

**Manufacturer Site:** QUANZHOU KOMOO INTELLIGENT KITCHEN & BATH CO., LTD  
NO. 1199 Maosheng Road, Economic Development Zone, Nan'an  
City, Fujian Province

**Product Name:** Integrated Smart Toilet

**Type/Model:** CD-K010

**FCC ID:** 2BBVECDK010

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part1.1307(b)

**PREPARED BY:**

Project Engineer  
Dylan Tang

**REVIEWED BY:**

Reviewer  
Wakeyou Wang

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## Revision History

| Report No.       | Version | Description             | Issued Date     |
|------------------|---------|-------------------------|-----------------|
| 230600106SHA-002 | Rev. 01 | Initial issue of report | October 8, 2023 |
|                  |         |                         |                 |
|                  |         |                         |                 |

## 1 GENERAL INFORMATION

### 1.1 Description of Equipment Under Test (EUT)

|                       |   |
|-----------------------|---|
| Product name:         | Integrated Smart Toilet   |
| Type/Model:           | CD-K010   |
| Description of EUT:   | The EUT is a integrated Smart Toilet, it has only one model.                          |
| Rating:               | AC 120V, 60Hz, 1000W MAX  |
| Category of EUT:      | Class B   |
| EUT type:             | <input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing |
| Software Version:     | 1.0   |
| Hardware Version:     | 1.0   |
| Sample received date: | June 8, 2023  |
| Date of test:         | June 8, 2023 ~ October 8, 2023  |

### 1.2 Technical Specification

|                      |                     |
|----------------------|---------------------|
| Frequency Range:     | 24000MHz ~ 24250MHz |
| Type of Modulation:  | FSK                 |
| Channel Number:      | 1                   |
| Antenna Information: | Integrated antenna  |

## TEST REPORT

### 1.3 Description of Test Facility

|            |  |
|------------|--|
| Name:      | Intertek Testing Services Shanghai                                     |
| Address:   | Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200   |
| Telefax:   | 86 21 54262353   |

|   |   |
|---|---|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab<br>Registration No. CNAS L0139                         |
|   | FCC Accredited Lab<br>Designation Number: CN0175                              |
|   | IC Registration Lab<br>CAB identifier.: CN0014                                |
|   | VCCI Registration Lab<br>Registration No.: R-14243, G-10845, C-14723, T-12252 |
|   | A2LA Accreditation Lab<br>Certificate Number: 3309.02                         |

## TEST REPORT

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

#### Mobile device exposure for standalone operations:

According to §1.1310, the limit for general population/uncontrolled exposures

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|-----------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| 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                       |

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

## TEST REPORT

### 2.2 Assessment Results

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 230600106SHA-001:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

| Frequency band | Fundamental Radiated Emission | Maximum EIRP | R    | S                     | Limits                |
|----------------|-------------------------------|--------------|------|-----------------------|-----------------------|
| (MHz)          | (dBuV/m)                      | dBm          | (cm) | (mW/cm <sup>2</sup> ) | (mW/cm <sup>2</sup> ) |
| 24000 ~ 24250  | 84.21                         | -10.77       | 20   | 0.00002               | 1                     |

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1.

## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.  
To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\*END\*\*\*\*\*