

Castia 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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TEST REPORT

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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TEST REPORT**Revision History**

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

TEST REPORT**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 Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab 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 ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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/cm²

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 ²)	(mW/cm ²)
24000 ~ 24250	84.21	-10.77	20	0.00002	1

Note: 1 mW/cm² from 1.310 Table 1.

TEST REPORT

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*****