

HOTI (XIAMEN) TECH HOME INC.

MPE ASSESSMENT REPORT

Report Type:

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

Model:

9ME4653#,9ME4657#,9ME4652#,9ME4656#

REPORT NUMBER:

2510B1324SHA-002

ISSUE DATE:

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TEST REPORT

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Report no.: 2510B1324SHA-002

Applicant: HOTI (XIAMEN) TECH HOME INC.
No.6 Guoyuan Road,Tongxiang High-tech Park,Hongtang Town,Tongan District, Xiamen361100,China

Manufacturer: HOTI (XIAMEN) TECH HOME INC.
No.6 Guoyuan Road,Tongxiang High-tech Park,Hongtang Town,Tongan District, Xiamen361100,China

Manufacturer Site: HOTI (XIAMEN) TECH HOME INC.
No.6 Guoyuan Road,Tongxiang High-tech Park,Hongtang Town,Tongan District, Xiamen361100,China

Product Name: Intelligent Toilet
9ME4653#,9ME4657#,9ME4652#,9ME4656#

Type/Model: "#"-is followed by up to ten characters alphanumeric characters representing different Drain Hole Distance, color of display, color of Ambient light, color of decoration panel and buttons.

FCC ID: 2BQF8-01

SUMMARY:

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

KDB447498 D04 Interim General RF Exposure Guidance v01
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
2510B1324SHA-002	Rev. 01	Initial issue of report	February 4, 2026

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Intelligent Toilet
Type/Model:	9ME4653#, 9ME4657#, 9ME4652#, 9ME4656# "#" -is followed by up to ten characters alphanumeric characters representing different Drain Hole Distance, color of display, color of Ambient light, color of decoration panel and buttons.
Description of EUT:	The EUT is Intelligent Toilet, the difference between model 9ME4653# and model 9ME4652# lies in their functional configurations, the same applies to model 9ME4656# and model 9ME4657#, and the models PCB layout and circuit design is the same. The difference between model 9ME4653# and model 9ME4657# lies in the ambient light specifications. So choose 9ME4653#, 9ME4657# to test as representative.
Rating:	AC120V 60Hz,1050W
Category of EUT:	Class B
EUT type:	☐ Table top ☒ Floor standing
Software Version:	4116-main-120V-0808
Hardware Version:	4116_REV_E_20251126
Sample received date:	October 9, 2025
Date of test:	October 9, 2025 ~ December 1, 2025

1.2 Technical Specification

Frequency Range:	24050MHz ~ 24250MHz
Type of Modulation:	FMCW
Channel Number:	1
Antenna Information:	microstrip antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
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 L21189
	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

2 MPE Assessment

2.1 MPE Assessment Limit

According to FCC §1.1310: 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)

Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.:

Frequency range (MHz)	E-field strength (V/m)	H-field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500	-	-	f/300	<6
1,500-100,000	-	-	5	<6
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	1842/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500	-	-	f/1500	<30
1,500-100,000	-	-	1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

3 RF Exposure Evaluation

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph §1.1307 (b)(2) of this section): A single RF source is exempt if:

(Option A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph §1.1307(b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(ii)(A);

(Option B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \leq 20cm \\ ERP_{20cm} & 20cm < d \leq 40cm \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm}\sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20cm}(mW) = \begin{cases} 2040f & 0.3GHz \leq f < 1.5GHz \\ 3060 & 1.5GHz \leq f \leq 6GHz \end{cases}$$

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Single RF Sources Subject to Routine Environmental Evaluation

Frequency range (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$
1.34-30	$3,450 R^2/f^2$
30-300	$3.83 R^2$
300-1,500	$0.0128R^2 f$
1,500-100,000	$19.2R^2$

Table 1

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph §1.1307(b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

P_{th,i} = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP_j = the ERP of fixed, mobile, or portable RF source j.

ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

3.1 Assessment Results

As we can see ERIP from the test report: 2510B1324SHA-001.

Model: 9ME4653Q

Frequency band	Tune-up EIRP	Tune-up ERP	Tune-up ERP
(MHz)	(dBm)	(dBm)	(mW)
24000 - 24250	-7.99	-10.14	0.097

Model: 9ME4657Q

Frequency band	Tune-up EIRP	Tune-up ERP	Tune-up ERP
(MHz)	(dBm)	(dBm)	(mW)
24000 - 24250	-11.18	-13.33	0.046

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	$\lambda / 2 \pi$	R	Tune-up ERP	Thresholds ERP
(MHz)	(m)	(m)	(mW)	(mW)
24000 - 24250	0.002	0.02	0.097	7.68

*****END*****