



## TEST REPORT

*Applicant: Shenzhen Ipetmon Creative Technology Co., Ltd.*

**Address: 101, No. 93 Boguang Second Road, Shangcun Community,  
Gongming Street, Guangming District, Shenzhen,  
China**

**Product Name: Smart pet water dispenser**

**FCC ID: 2A4A7-PTM-633**

**Standard(s): FCC CFR 47 part1,  
1.1310 KDB680106 D01 v04**

**Report Number: 2402Z26079E-RF-00D**

**Report Date: 2024/11/19**

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

A handwritten signature in black ink, appearing to read "Gavin Xu".

**Reviewed By: Gavin Xu  
Cao**

**Title: RF Engineer  
Manager**

A handwritten signature in black ink, appearing to read "Ivan Cao".

**Approved By: Ivan**

**Title: EMC**

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**DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402Z26079E-RF-00D	Original Report	2024-11-19

# 1 General Description

## 1.1 Product Description Of Equipment Under Test (EUT)

<b>EUT Name:</b>	Smart pet water dispenser
<b>EUT Model:</b>	PTM-633
<b>Multiple Model:</b>	PTM-653, PTM-663
<b>Model Difference:</b>	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: PTM-633.
<b>Operation Frequency:</b>	110-205kHz
<b>Modulation Type:</b>	ASK
<b>Rated Input Voltage:</b>	DC 3.7V, 5000mAh from battery or DC 5.0V from adapter
<b>Adapter:</b>	Model: YMK-10W050100 Input: 100-240VAC 50/60Hz, 0.3A Max Output: 5V DC, 1000mA
<b>EUT Received Date:</b>	Nov. 01, 2024
<b>Test Date:</b>	Nov. 01, 2024 ~ Nov. 18, 2024
<b>Date of issue:</b>	Nov. 19, 2024
<b>EUT Received Status:</b>	Good

## 1.2 Mechanical Description of EUT

The UUT measures approximately 19.2 cm (L) x 19.2 cm (W) x 16 cm (H) .

### 1.3 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty
All emissions, radiated	$\pm 4.0$ dB
AC power line Conducted Emission	$\pm 2.0$ dB
Temperature	$\pm 2$ °C
Humidity	$\pm 5$ %
DC and low frequency voltages	$\pm 1.0$ %

### 1.4 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

## 2 System Test Configuration

### 2.1 Local Support Equipment

Manufacturer	Description	Model
Adapter	Adapter	YMK-10W050100

### 2.2 Power Supply and Line Filters

Manufacturer	Description	Model	Serial Number
N/A	N/A	N/A	N/A

### 2.3 Interface Ports and Cabling

Cable Descriptions	Length (m)	From	To
Power Cable	< 1 m	DC Source	EUT

### 3 Summary of Test Results

FCC KDB680106 D01 Wireless Power Transfer v04

FCC CFR 47			
Standard Section	Test Item	Result	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01 v04	Electric Field Strength (E) (V/m)	PASS	--
	Magnetic Field Strength (H) (A/m)	PASS	--

Compliant with FCC KDB680106 D01 Wireless Power Transfer v04 section 5.2:

- 1) The power transfer frequency is below 1MHz.  
Yes, the working frequency is: 110-205kHz.
- 2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.  
Yes, the maximum output power is 15 watts.
- 3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e. , the surfaces of the transmitter and client device enclosures need to be in physical contact)  
Yes, the maximum permitted load is placed in physical contact with the transmitter.
- 4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).  
Yes, this provision does not cover § 2.1093-Portable exposure conditions.
- 5) The H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios(i.e. , the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.  
Yes, The H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit ; coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- 6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.  
Yes, For systems with single radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time.

## 4 Carrier Frequency Of Channels

Test Channel	
Channel	Frequency (KHz)
01	181.0

## 5 Test Mode

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load) (Connect to adapter)
2	Wireless charging Mode(Half load) (Connect to adapter)
3	Wireless charging Mode(Null load) (Connect to adapter)
Note: The mode 1 was the worst case and only the data of the worst case record in this report.	

## 6 Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Smart pet water dispenser	N/A	PTM-633	EUT
E-2	Adapter	YMK-10W050100	--	AE
E-3	Wireless water pump	N/A	N/A	AE

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.



## 7 Test Instruments

Description <sup>↕</sup>	Brand <sup>↕</sup>	Model No. <sup>↕</sup>	Frequency Range <sup>↕</sup>	Calibrated Until <sup>↕</sup>
Broadband Field Meter <sup>↕</sup>	NARDA <sup>↕</sup>	NBM-550 <sup>↕</sup>	— <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
Magnetic Field Meter <sup>↕</sup>	NARDA <sup>↕</sup>	ELT-400 <sup>↕</sup>	1–400kHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
Magnetic Probe <sup>↕</sup>	NARDA <sup>↕</sup>	HF-3061 <sup>↕</sup>	300kHz–30MHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
Magnetic Probe <sup>↕</sup>	NARDA <sup>↕</sup>	HF-0191 <sup>↕</sup>	27–1000MHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
Broadband Field Meter <sup>↕</sup>	NARDA <sup>↕</sup>	NBM-550 <sup>↕</sup>	— <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
Electric Field Meter <sup>↕</sup>	COMBINOVA <sup>↕</sup>	EFM 200 <sup>↕</sup>	5Hz–400kHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
E-Field Probe <sup>↕</sup>	NARDA <sup>↕</sup>	EF-0391 <sup>↕</sup>	100kHz–3GHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>
E-Field Probe <sup>↕</sup>	NARDA <sup>↕</sup>	EF-6091 <sup>↕</sup>	100MHz–60GHz <sup>↕</sup>	Feb. 01, 2025 <sup>↕</sup>

Note: The calibration interval of the above test instruments is 12 month.

## 8 Maximum Permissible Exposure

### 8.1 Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup>  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6
Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup>  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; \*Plane-wave equivalent power density.

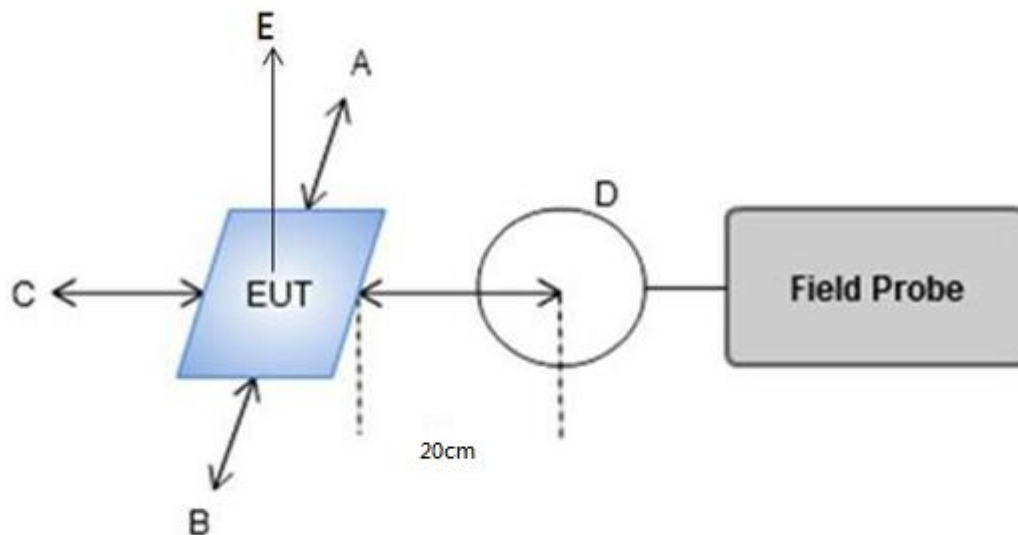
2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v04.

3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

## 8.2 Test Procedure

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be at 20 cm surrounding the device and 20 cm above the top surface. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair at 20 cm surrounding the device and 20 cm above the top surface.

## 8.3 Test Setup



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT (20 cm measure distance)

## 8.4 Result of Maximum Permissible Exposure

For Full load mode:

H-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.19	0.18	0.18	0.2	0.19	/	/
A/m	0.15	0.14	0.14	0.16	0.15	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.16	1.14	1.17	1.05	1.15	307	614

For Half load mode:

H-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.19	0.17	0.22	0.17	0.17	/	/
A/m	0.15	0.14	0.18	0.14	0.14	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.16	1.18	1.14	1.06	1.13	307	614

For No load mode:

H-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.16	0.18	0.19	0.17	0.20	/	/
A/m	0.13	0.14	0.15	0.14	0.16	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 20 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.17	1.19	1.21	1.15	1.14	307	614

For Full load mode:

H-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.18	0.18	0.20	0.19	0.18	/	/
A/m	0.14	0.14	0.16	0.15	0.14	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.14	1.15	1.18	1.04	1.17	307	614

For Half load mode:

H-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.16	0.19	0.21	0.17	0.18	/	/
A/m	0.13	0.15	0.17	0.14	0.14	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.15	1.19	1.17	1.05	1.14	307	614

For No load mode:

H-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.18	0.16	0.18	0.19	0.20	/	/
A/m	0.14	0.13	0.14	0.15	0.16	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 22 cm surrounding the device and 22 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.16	1.18	1.19	1.17	1.15	307	614

For Full load mode:

H-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.15	0.19	0.21	0.16	0.17	/	/
A/m	0.12	0.15	0.17	0.13	0.14	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.16	1.18	1.17	1.05	1.16	307	614

For Half load mode:

H-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.18	0.17	0.20	0.15	0.16	/	/
A/m	0.14	0.14	0.16	0.12	0.13	0.815	1.63

Note: Calculation:  $A/m = uT/1.25$

E-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.16	1.17	1.18	1.03	1.14	307	614

For No load mode:

H-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.18	0.17	0.17	0.21	0.19	/	/
A/m	0.14	0.14	0.14	0.17	0.15	0.815	1.63

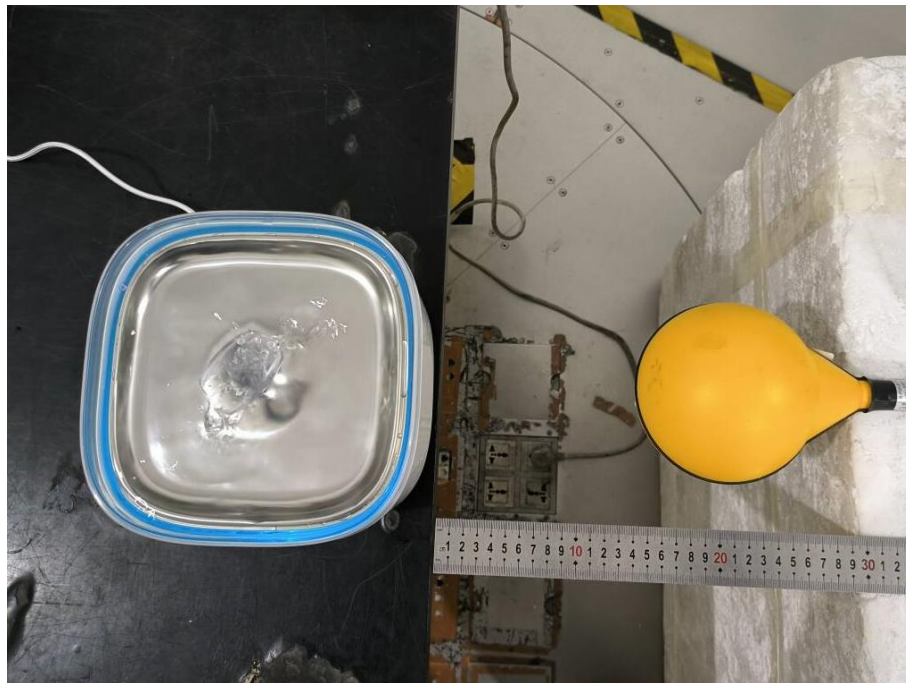
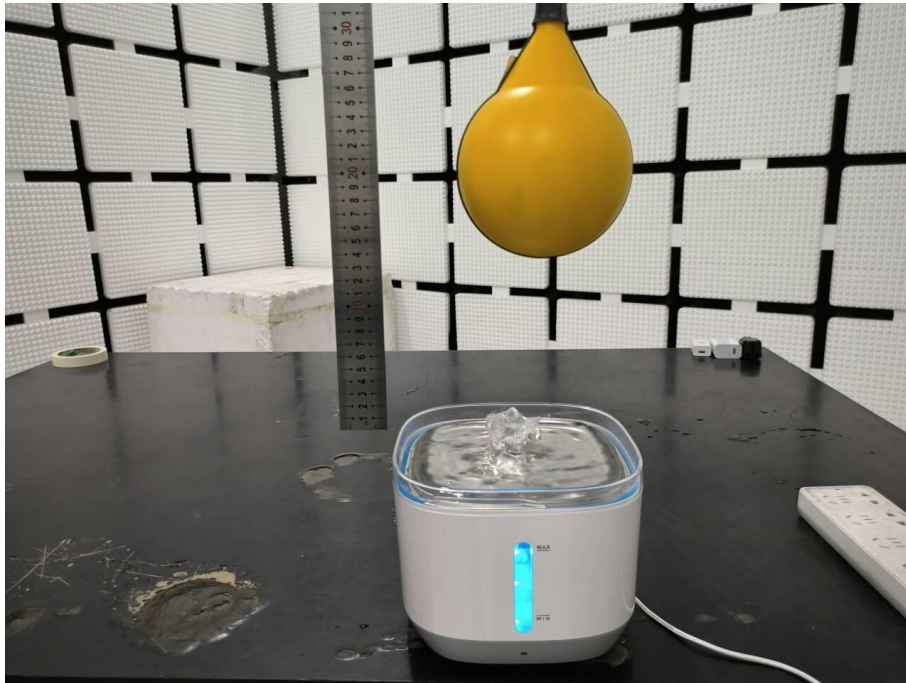
Note: Calculation:  $A/m = uT/1.25$

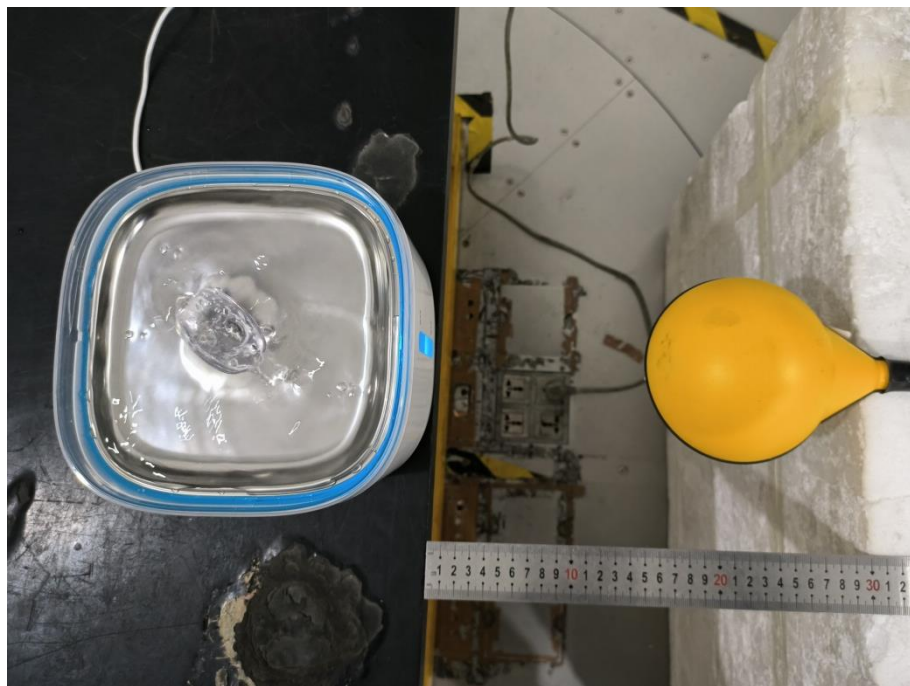
E-Filed Strength at 24 cm surrounding the device and 24 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.181	1.17	1.16	1.18	1.17	1.14	307	614

## 8.5 Test Photo

20cm:

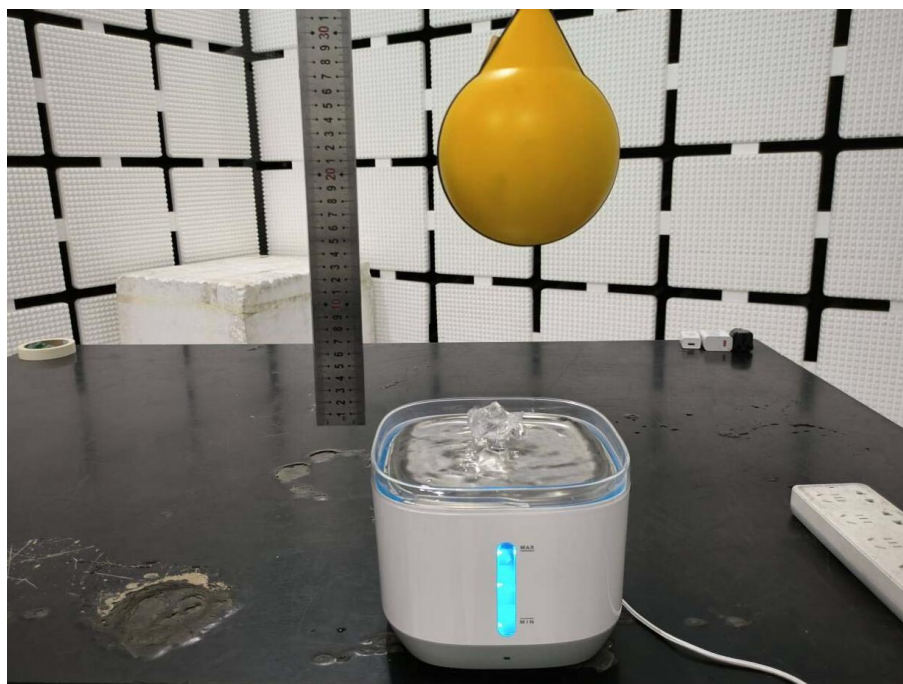


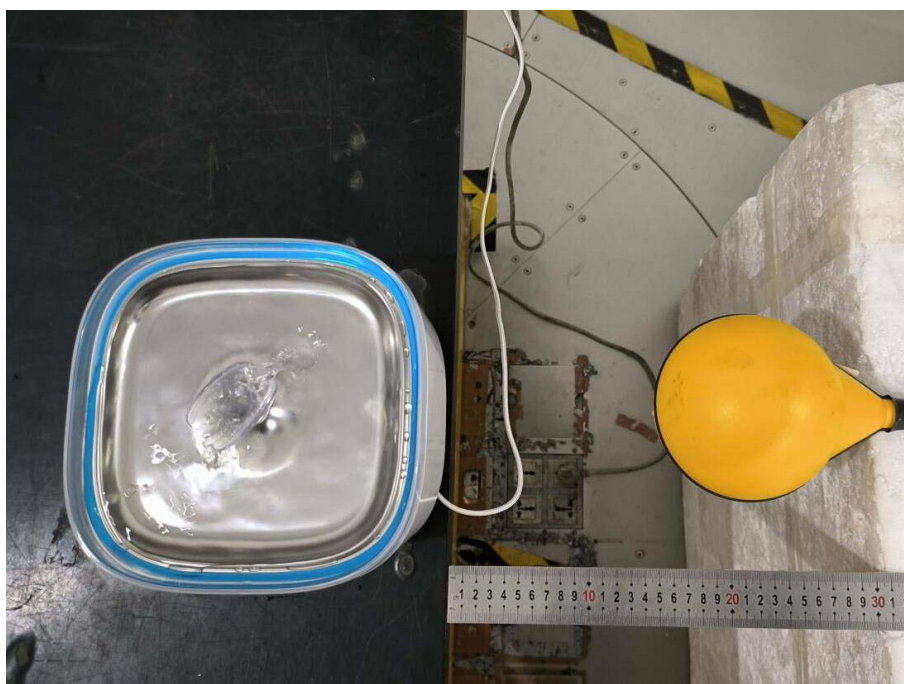
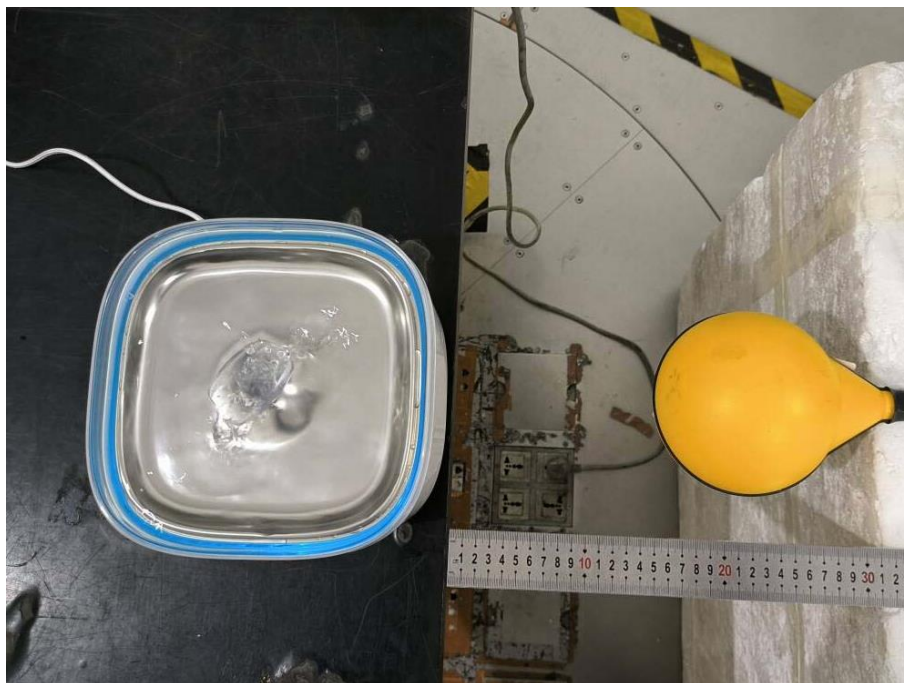


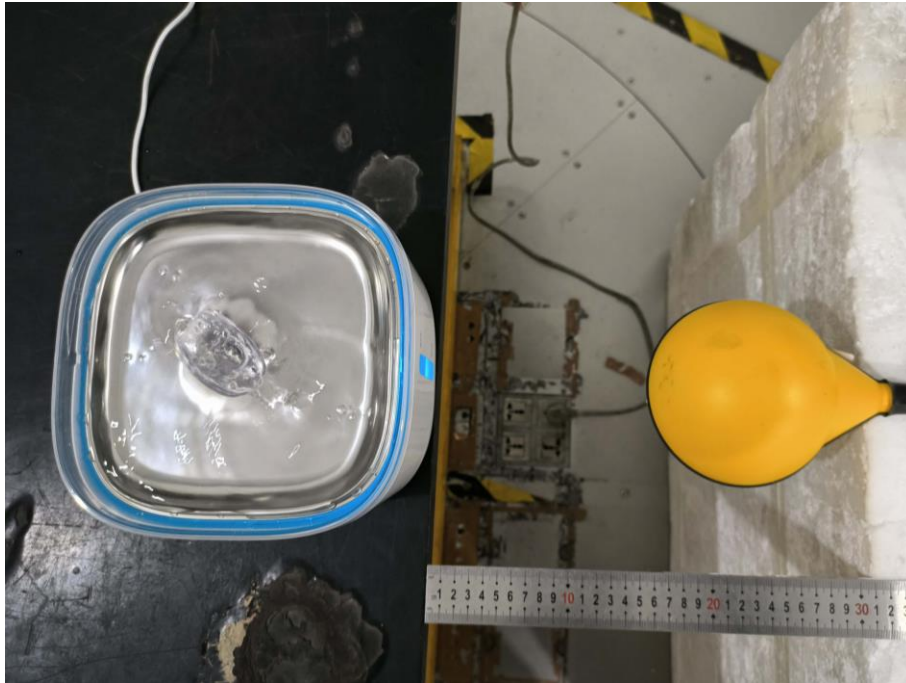




22cm:

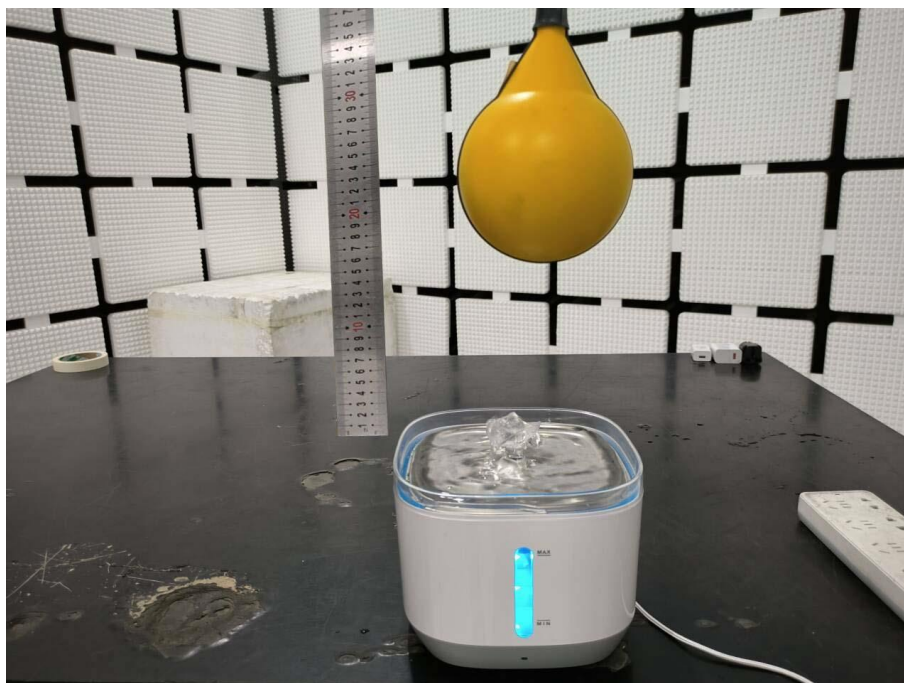


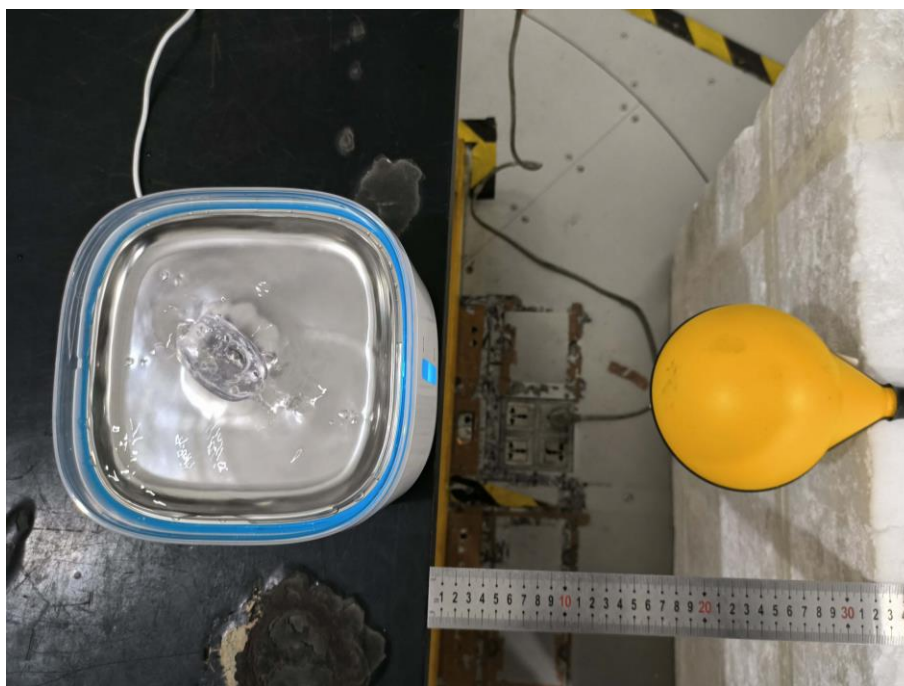
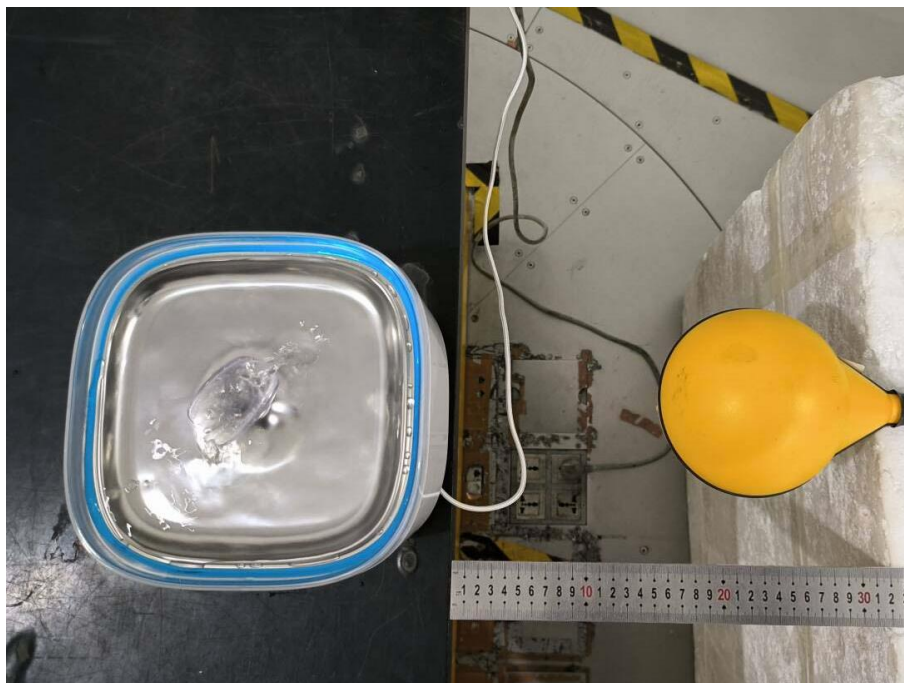






24cm:







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## **9 Appendix A (Normative) – EUT External Photographs**

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Please refer to the attachment

## **10 Appendix B (Normative) – EUT Internal Photographs**

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Please refer to the attachment

**--- END OF REPORT ---**