



MPE Report

Report No.: STS2512387H01

Issued for

Shenzhenbenfendianzishangwuyouxiangongsi

Longhua District, Minxin Community Bishui Longting Building
6 Unit, 7B, Shenzhen GuangDong Sheng, 518000, China

Product Name: Pet Automatic Feeder & Gravity Water
Dispenser with WiFi

Brand Name: **oneisall**

Model Name: PF14S

Series Model(s): N/A

FCC ID: 2BBAW-PF14S

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Shenzhenbenfendianzishangwuyouxiangongsi
Address: Longhua District, Minxin Community Bishui Longting Building 6
Unit, 7B, Shenzhen GuangDong Sheng, 518000, China
Manufacturer's Name: Shenzhenbenfendianzishangwuyouxiangongsi
Address: Longhua District, Minxin Community Bishui Longting Building 6
Unit, 7B, Shenzhen GuangDong Sheng, 518000, China

Product Description

Product Name: Pet Automatic Feeder & Gravity Water Dispenser with WiFi

Brand Name: **oneisall**

Model Name: PF14S

Series Model(s): N/A

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test:

Date of receipt of test item: 25 Nov. 2025

Date (s) of performance of tests: 25 Nov. 2025 to 22 Jan. 2026

Date of Issue: 22 Jan. 2026

Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Jan. 2026	STS2512387H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Pet Automatic Feeder &Gravity Water Dispenser with WiFi	
Brand Name	oneisall	
Model Name	PF14S	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is Pet Automatic Feeder &Gravity Water Dispenser with WiFi	
	Operation Frequency:	2402~2480 MHz 802.11b/g/n 20: 2412~2462 MHz 802.11n40:2422~2452MHz IEEE 802.11a/ n(HT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40): 5.190GHz-5.230GHz IEEE 802.11a/ n(HT20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40): 5.755GHz-5.795GHz
	Modulation Type:	GFSK 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps
	Antenna gain:	BLE/2.4G WIFI: 1.95 dBi U-NII-1: 1.97dBi U-NII-3: -0.76 dBi
	Antenna Designation:	PCB antenna
Power Rating	DC 6V (1.5V*4) from battery, DC 5V from USB	
Adapter 1	Model No.: YMK-10W050100 Input: AC 100-240V 50/60Hz 0.3A Output: 5V---1A	
Adapter 2	Manufacture: Guangdong Qingliu Electronics Co.,LTD Model No.: QL010-0501000UU Input: AC 100-240V 50/60Hz 0.45A Output: 5V---1A	



Battery	N/A
Hardware Version	N/A
Software Version	N/A

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the 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 ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
BLE (GFSK)	AV	0±1dBm
WIFI 2.4G (802.11b)	AV	9±1dBm
WIFI 5.1G (802.11a)	AV	9±1dBm
WIFI 5.8G (802.11a)	AV	9±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE (GFSK)	2.48	20	1	1.95	2.95	1.972	0.0004	1	/	Pass
WIFI 2.4G (802.11b)	2.462	20	10	1.95	11.95	15.668	0.0031	1	/	Pass
WIFI 5.1G (802.11a)	5.24	20	10	1.97	11.97	15.74	0.0031	1	/	Pass
WIFI 5.8G (802.11a)	5.825	20	10	-0.76	9.24	8.395	0.0017	1	/	Pass

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. The Bluetooth and WLAN can't simultaneous transmission at the same time.

*****END OF THE REPORT*****