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Applicant : PETKIT Network Technology (Shanghai) Co., Ltd.

Address of Applicant : Room 4139, Building 2, 588 Zixing Road, Minhang

District, Shanghai

Product Name : PETKIT YUMSHARE DUAL-HOPPER WITH CAMERA

SMART PET FEEDER

Brand Name : PETKIT Model Name : P591

Sample Acquisition Method : Sent by Client

Sample No. : E23060039-02#01

FCC ID : 2A72N-P591

Standard : FCC Part 2.1091

Date of Receipt : 2023-07-04

Date of Test : 2023-07-04~ 2023-07-21

Date of Issue : 2023-07-22

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:

Reviewed by:

Jennifer Zholl

(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.		
Address	No.1298, Pingan Road, Minhang District, Shanghai, China		
Telephone	0086 21-51682999		
Fax	0086 21-54711112		
Homepage	www.icasiso.com		

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Applicant Company Name	PETKIT Network Technology (Shanghai) Co., Ltd.		
Address	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai		
Contact Person	TingHe		
Telephone	13916991059		
Email	ting.he@petkit.com		
Manufacturer Company Name	Dongguan Zhihang Electronic Technology Co., LTD.		
Address	Room 701 ,Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City, Guangdong Province, China.		
Factory Company Name	Dongguan Zhihang Electronic Technology Co., LTD.		
Address	Room 701 ,Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City, Guangdong Province, China.		

1.4 Details of EUT

Product Name	PETKIT YUMSHARE DUAL-HOPPER WITH CAMERA SMART PET FEEDER		
Brand Name	PETKIT		
Test Model Name	P591		
FCC ID	2A72N-P591		
Made of Operation	WLAN 802.11b/g/n(HT20) for 2.4GHz		
Mode of Operation	Bluetooth BLE Version 5.0		
	Band	Frequency (MHz)	
Frequency Range	802.11b/g/n(HT20)	2400~2483.5	
	Bluetooth	2400~2483.5	
Modulation Type	DSSS/OFDM for WLAN 2.4GHz		

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	GFSK for Bluetooth
Antenna Type	Internal Antenna
Antenna Gain	Bluetooth: 3.98dBi
Antenna Gain	WLAN 2.4G:-5.45dBi
Hardware version	D4H_MAIN_V1.1
Software version	petkit_D4H_tlsr8258_1_39_202307071601

2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to FCC Part 1.1307, systems operating under the provisions of this section shall be operated in a manner the ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)				
	(A) 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				
	(B) Limits for Gener	al Population/Uncontrolled	d Exposure					
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				
300-1,500			f/1500	30				
1,500-100,000			1.0	30				

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

2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm2)

P = Input Power of the Antenna (mW)

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G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)
WLAN 2.4GHz	2400~2483.5	16.39	3.98	108.89	0.02166	1.0
BLE	2400~2483.5	-2.77	-5.45	0.15	0.00003	1.0

2.4 Results for transmit simultaneously

Na	Configurations	Maximum MPE Value			Limit	
No.	Configurations	WLAN 2.4GHz	BLE	Transmit Simultaneously	Limit	
1	WLAN 2.4GHz + BLE	0.02166	0.00003	0.02169	1.0	

Note(s):

- 1. For 300 1,500MHz: Power Density limit is f/1500 mW/cm2
- 2. For 1,500 100,000MHz: Power Density limit is 1.0 mW/cm²
- 3. MPE Ratios are Calculated as [(MPE1/Limit)+ (MPE2/Limit) +]≤1

2.5 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

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3 Appendixes

3.1 Sample Photograph



All of the sample

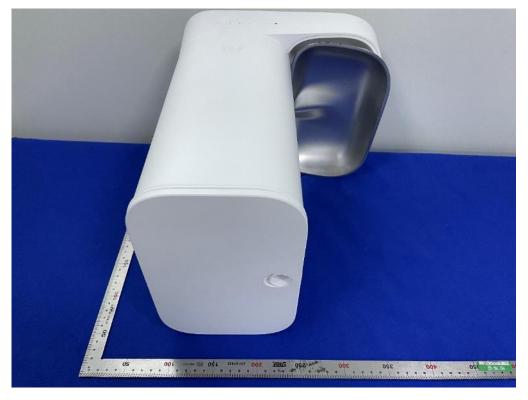


Front of the sample

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Rear of the sample



Top of the sample

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Bottom of the sample



Left of the sample

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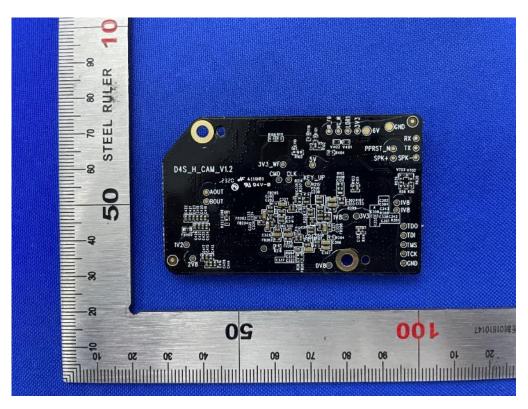


Right of the sample

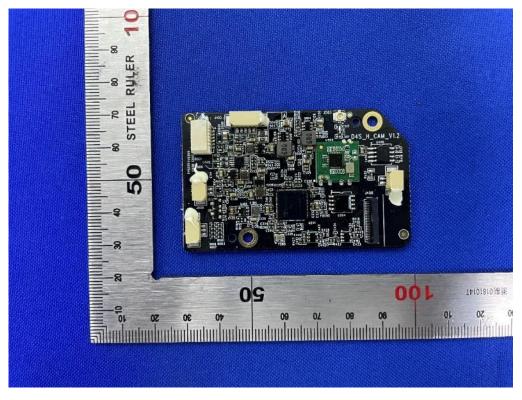


Open of the sample

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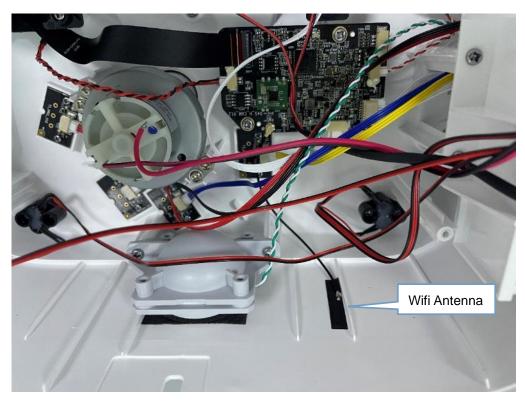


Internal-1 of the sample

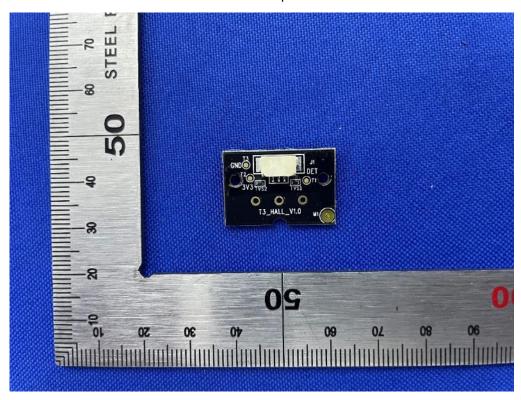


Internal-2 of the sample

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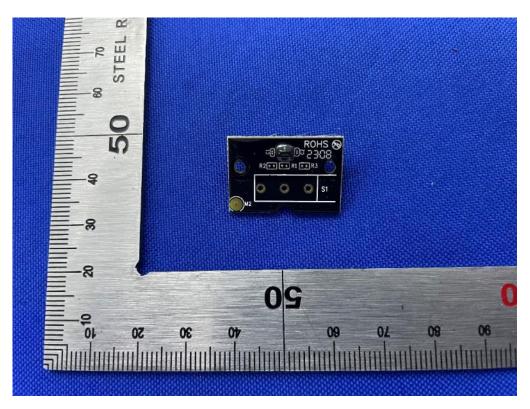


WIFI Antenna position

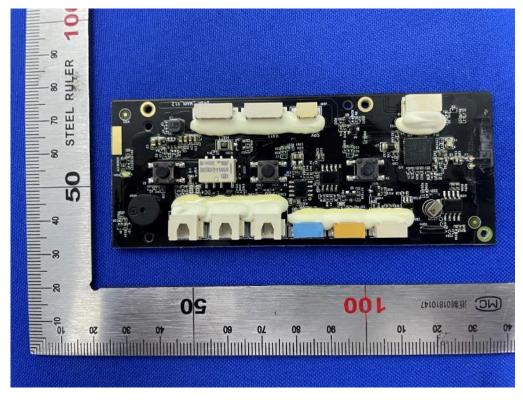


Internal-3 of the sample

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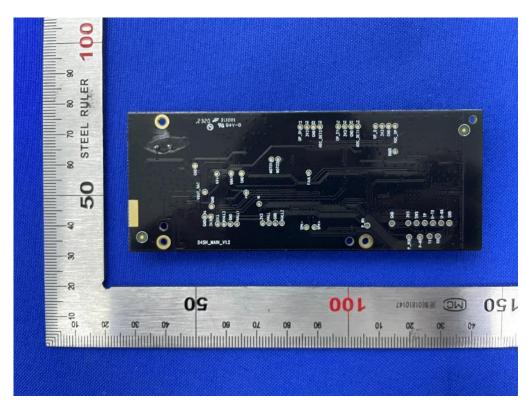


Internal-4 of the sample

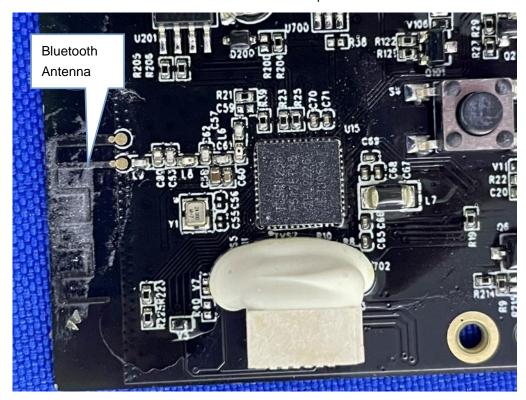


Internal-5 of the sample

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Internal-6 of the sample



Bluetooth Antenna position
End of the report