

# Test Report

No.: AJT230703087E-2

Applicant Name : PENGCHUANGDA (SHENZHEN)INDUSTRY CO., LTD.  
Applicant Address : NO.14-1 TONGQING ROAD, TONGXIN COMMUNITY, BAOLONG STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA  
Manufacturer : PENGCHUANGDA (SHENZHEN)INDUSTRY CO., LTD.  
Manufacturer Address : NO.14-1 TONGQING ROAD, TONGXIN COMMUNITY, BAOLONG STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : SMART BIRD FEEDER  
Model No. : PCD001  
Additional Model : PCD002, PCD003, PCD004, PCD005, PCD006, PCD007, PCD008, PCD009, PCD010, PCD011, PCD012, PCD013, PCD014, PCD015, PCD016, PCD017, PCD018, PCD019, PCD020  
Sample Received Date : 03 July, 2023  
Testing Completed Date : 20 July, 2023

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC Part 1.1307	PASS

Tested by: Glory Reviewed by: Fly Liang Approved by: Garbaro Jang  
Position: Technical Supervisor  
Date: 2023-07-20



This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

AJT TESTING SERVICES LIMITED

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## 1 Test Standards

The tests were performed according to following standards:
FCC Part 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

## 2 Summary

### 2.1 General Remarks

Date of receipt of test sample	03 July, 2023
Testing commenced on	03 July, 2023 ---- 20 July, 2023
Testing concluded on	20 July, 2023

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## 3 General Information

### 3.1 General Description of E.U.T.

Product:	SMART BIRD FEEDER
Model(s):	PCD001
FCC ID:	2A2QS-PCD002
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n
Antenna Gain:	4.6dBi
NOTE: 1.The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer. 2.Product models same are identical in the PCB layout, electrical circuit design and functions, The differences are appearance color, exterior structure, and model name for commercial purpose.	

### 3.2 Details of E.U.T.

Operation Frequency:	WiFi: 802.11b/g/n HT20: 2412~2462MHz
Max. RF output power:	WiFi (2.4G): 5.62dBm
Type of Modulation:	WiFi: DSSS, OFDM
Ratings:	DC 3.7V (Battery*2) DC 5V from adapter Input AC 120V 60Hz
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

## 4 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307	PASS

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## 5 RF Exposure

Test Requirement:	FCC Part 1.1307
Evaluation Method:	FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

### 5.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

### 5.2 The procedures / limit

#### (A)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

#### (B)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			1.0	30

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

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## 5.3 MPE Calculation Method

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

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

Mode 1: alone transmission

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Output Power (mW)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )
2.4G WIFI	4.6	2.88	5.62	3.65	0.0021	1

## 5.4 Result: Compliance

No SAR measurement is required.

**END OF TEST REPORT**

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