

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RF EXPOSURE EVALUATION - REPORT

Product name: Wireless Thermostat

Model name: PUCK-2.0

FCC ID: 2AK78PUCK2

IC: 22464-PUCK2

Test Report Number: EFGX25100120-IE-02-E03

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator

2025-12-02

Bruce Zheng / Project Engineer

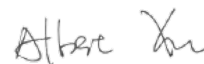


Date	Eurofins-Lab.	Name / Title	Signature
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Technical responsibility for area of testing:

2025-12-02

Albert Xu / EMC Manager



Date	Eurofins-Lab.	Name / Title	Signature
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EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.
Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block Meishenghuigu Innovation Park, No.83,
Dabao Road, Bao'an District Shenzhen, Guangdong, People's Republic of China

1.2 Testing laboratory

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District Shenzhen, Guangdong, People's Republic of China

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01.

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088.

1.3 Details of applicant

Name	: Standard Euler, Inc.
Address	: 479 Jessie Street, San Francisco, California 94103, United States
Telephone	: ./.
Fax	: ./.

1.4 Details of manufacturer

Name	: Standard Euler, Inc.
Address	: 479 Jessie Street, San Francisco, California 94103, United States
Telephone	: ./.
Fax	: ./.

1.5 Test item

Product type	: Wireless Thermostat
Model name	: PUCK-2.0
Brand name	: FLAIR
Technical Description	: Power Input: USB (5V); Battery (3.0V); POGO Pin Power Supply (5V) Input Voltage: 3V / 5V Input Current: Max 1A
Sample Code	: 251014-09-002, 251014-09-003, 251014-09-004, 251014-09-005

RadioTechnical data

Radio Tech.	: WLAN; 915MHz
Modulation	: WLAN: DSSS, OFDM 915MHz: 2-GFSK
MaxGain	: 2.1 dBi (2.4G WLAN) -2.98 dBi (915MHz)

Note:

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant. Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.

1.6 Standards

FCC §1.1307
RSS-102 Issue 6

2 RF Exposure Measurement

2.1 Limit

FCC rules

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
Limits for General Population/Uncontrolled 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	<30

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

ISED rules

RF field strength and power density limits for devices used by the general public (uncontrolled environment)

Frequency range (MHz)	Electric field (V _{RMS} /m)	Magnetic field (A _{RMS} /m)	Power density (W/m ²)	Reference period (minutes)
10-20	27.46	0.0728	2	6
20-48	58.07 / f ^{0.25}	0.1540 / f ^{0.25}	8.944 / f ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 f ^{0.3417}	0.008335 f ^{0.3417}	0.02619 f ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/f ^{1.2}
150000-300000	0.158 f ^{0.5}	4.21 × 10 ⁻⁴ f ^{0.5}	6.67 × 10 ⁻⁵ f	616000/f ^{1.2}

Note: f is frequency in MHz.

2.2 Formula

Prediction of MPE limit at a given distance

$$S = \frac{EIRP}{4\pi R^2}$$

Where:

- S** = Power density;
EIRP = Equivalent Isotropic Radiated Power in mW;
R = Distance to the center of radiation of the antenna;

2.3 RF exposure results

FCC MPE

Operating Mode	Evaluation Band (MHz)	Operation Distance (cm)	EIRP (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)
Normal	915	20	0.3090	0.00006	0.61
WLAN	2400	20	25.119	0.005	1.00

ISED MPE

Operating Mode	Evaluation Band (MHz)	Operation Distance (cm)	EIRP (mW)	Power Density (W/m ²)	Power Density Limit (W/m ²)
Normal	915	20	0.3090	0.0006	2.77
WLAN	2400	20	25.119	0.05	5.35

--End of Report--

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