



TEST REPORT

Reference No...... : WTF21F07070451W002
FCC ID : 2AQA6-H7130
Applicant..... : Shenzhen Intellirocks Tech.Co.,Ltd.
Address..... : No. 2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen
Manufacturer : GD Shine Electric Appliances Co., Ltd.
Address..... : Jiyue Industry District, Lunjiao, Shunde, FoShan City,GuangDong P.R,China
Product Name..... : Smart Heater
Model No...... : H7130
Standards..... : FCC CFR47 Part 15 Subpart C (Section 15.247): 2019
Date of Receipt sample : 2021-07-15
Date of Test : 2021-07-15 to 2021-08-05
Date of Issue..... : 2021-08-20
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398

Fax:+86-757-23811381

E-mail:info@waltek.com.cn

Compiled by:

Roy Hong / Project Engineer

Approved by:



Danny Zhou / Manager



1 Revision History

Test Report No.	Date of Issue	Description	Status
WTF21F07070451W002	2021-08-20	Original	Valid

WALTEK



2 Contents

	Page
1 REVISION HISTORY.....	2
2 CONTENTS.....	3
3 GENERAL INFORMATION.....	4
3.1 GENERAL DESCRIPTION OF E.U.T	4
3.2 TECHNICAL CHARACTERISTICS OF EUT	4
4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
4.1 STANDARD APPLICABLE.....	5
4.2 MPE CALCULATION METHOD.....	6
4.3 MPE CALCULATION RESULT.....	6

WALTEK



3 General Information

3.1 General Description of E.U.T

Product Name : Smart Heater
Model No. : H7130
Model Description : ---
Rated Voltage..... : AC 120V, 60Hz, 1500W
Battery Capacity : ---
Power Adapter : ---

3.2 Technical Characteristics of EUT

Support Standards : 802.11b, 802.11g, 802.11n
Frequency Range : 2412-2462MHz for 802.11b/g/n(HT20)
RF Output Power : 12.49dBm (Conducted)
Modulation : 802.11b: DSSS(DBPSK/DQPSK/CCK)
802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
Data Rate : 1Mbps for 802.11b;54Mbps for 802.11g;MCS7 for 802.11n
Quantity of Channels : 11 for 802.11b/g/n(HT20)
Channel Separation..... : 5MHz
Type of Antenna : External Antenna
Antenna Gain : 2dBi
Lowest Oscillation..... : 40MHz



4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

4.1 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(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 ²)	Averaging Times E ² , H ² 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
1500-100000	/	/	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 ²)	Averaging Times E ² , H ² 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
1500-100000	/	/	1	30

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



4.2 MPE Calculation Method

$$S = (30 \cdot P \cdot G) / (377 \cdot R^2)$$

S = power density (in appropriate units, e.g., mW/cm²)

P = power input 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 (in appropriate units, e.g., cm)

4.3 MPE Calculation Result

Prediction distance (mm)	Prediction frequency (MHz)	Antenna Gain (dBi)	Numeric gain	Maximum Tune-up output power (dBm)	Maximum peak output power (mW)	PD (mW/cm ²)	Limit (mW/cm ²)
>200	2462	2	1.58	12.49	17.74	0.0055761	1.0

Result: Pass

=====End of Report=====

WALTEK