



EMF TEST REPORT

On Behalf of

Dongguan Dingyang Electronic Technology Co., Ltd.

Far infrared heater

Model No.: See Model List

Prepared for : Dongguan Dingyang Electronic Technology Co., Ltd.
Address : No. 1 Industrial Zone, Xinnan Village, Qishi Town, Dongguan,
PEOPLE'S REPUBLIC OF CHINA

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
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TEST REPORT DECLARATION

Applicant : Dongguan Dingyang Electronic Technology Co., Ltd.
 Address : No. 1 Industrial Zone, Xinnan Village, Qishi Town, Dongguan,
 PEOPLE'S REPUBLIC OF CHINA
 Manufacturer : Dongguan Dingyang Electronic Technology Co., Ltd.
 Address : No. 1 Industrial Zone, Xinnan Village, Qishi Town, Dongguan,
 PEOPLE'S REPUBLIC OF CHINA
 EUT Description : Far infrared heater
 (A) Model No. : See Mode List
 (B) Trademark : N/A

Measurement Standard Used:

EN 62233: 2008

Measurement methods for Electromagnetic fields of household appliances and similar apparatus with regard to human exposure

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the EN 62233 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Ben Sun
 Project Engineer

Ben Sun

Approved by (name + signature).....: Simple Guan
 Project Manager

Simple Guan



Date of issue.....: January 15, 2019

Revision History

Revision	Issue Date	Revisions	Revised By
REV0	January 15, 2019	Initial released Issue	Ben Sun

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Far infrared heater

Model Number : See Mode List

Diff : There is no difference between models except size and power. The voltage is fixed, we choose the largest power prototype for testing. So all the test were performed on the model DYB12-2A2.

Test Voltage : AC 120V/60Hz

EUT Information : Input : AC 120V/50~60Hz
CONSUMPTION : 300W

Trademark : N/A

Software version : N/A

Hardware version : N/A

1.2. Accessories of Device (EUT)

Power Source : N/A

1.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1	N/A	N/A	N/A	N/A

1.4. Block Diagram of connection between EUT and simulators



Signal Cable Description of the above Support Units					
No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
(a)	N/A	N/A	N/A	N/A	N/A

EUT: Far infrared heater

1.5. Product Function and Intended Use

The EUT (equipment under test) is a **Far infrared heater**. For the further information, refer to the user's manual.

1.6. Independent Operation Modes

The basic independent mode of operation is continuous operation mode. Refer to the user's manual for further information.

1.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

1.8. Submitted Documents

N/A.

2. TEST SET-UP AND OPERATION MODES

2.1.Principle of Configuration Selection

The equipment under test (EUT) is configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

2.2.Physical Configuration for Testing

Refer to the related paragraph of this report.

2.3.Test Operation and Test Software

Refer to the related paragraph of this report. No software was used.

2.4.Special Accessories and Auxiliary Equipment

Refer to the related paragraph of this report.

3. TEST RESULTS

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field probe 100cm ²	NARDA	ELT-400	M0675	2018.09.21	1 Year
2	Exposure level tester	NARDA	ELT-400	N-0231	2018.09.21	1 Year

3.2. Magnetic field emission

Test procedure	: EN 62233:2008
Frequency range	: 10Hz-400kHz
Background noise level (%×limit)	: 1.104%
Test voltage	: AC120V/60Hz
Measuring method	: Time domain evaluation (clause 5.5.2 of EN 62233:2008)
Measuring distance	: 30 cm, 10cm, 3cm
Sensor location	: Tools, transportable
Operating condition	: Continuously running
Ambient temperature	: 24°C
Measurement uncertainty (U)	: 1.23%
Compliance assessment criterion	: $M+MU \leq L$, where M is the measurement result; U is measurement uncertainty; and L is the limit.
Limit	: 100%
Result	: Pass

3.3.Measurement results of magnetic field emission

Measuring distance : 30cm

Table Measurement results of magnetic field emission (%×limit)			
Sensor location	Measurement results	Measurement results with the addition of measurement uncertainty	Result
Front	1.127%	1.141%	Pass
Rear	1.131%	1.145%	Pass

Remark: Message see the test photo.

Measuring distance : 10cm

Table Measurement results of magnetic field emission (%×limit)			
Sensor location	Measurement results	Measurement results with the addition of measurement uncertainty	Result
Front	1.134%	1.148%	Pass
Rear	1.134%	1.148%	Pass

Remark: Message see the test photo.

Measuring distance : 3cm

Table Measurement results of magnetic field emission (%×limit)			
Sensor location	Measurement results	Measurement results with the addition of measurement uncertainty	Result
Front	1.139%	1.153%	Pass
Rear	1.137%	1.151%	Pass

Remark: Message see the test photo.

Measuring Distance: 30 & 10 & 3 cm

Background Level: 1.8mG

Sensor Locations: Around

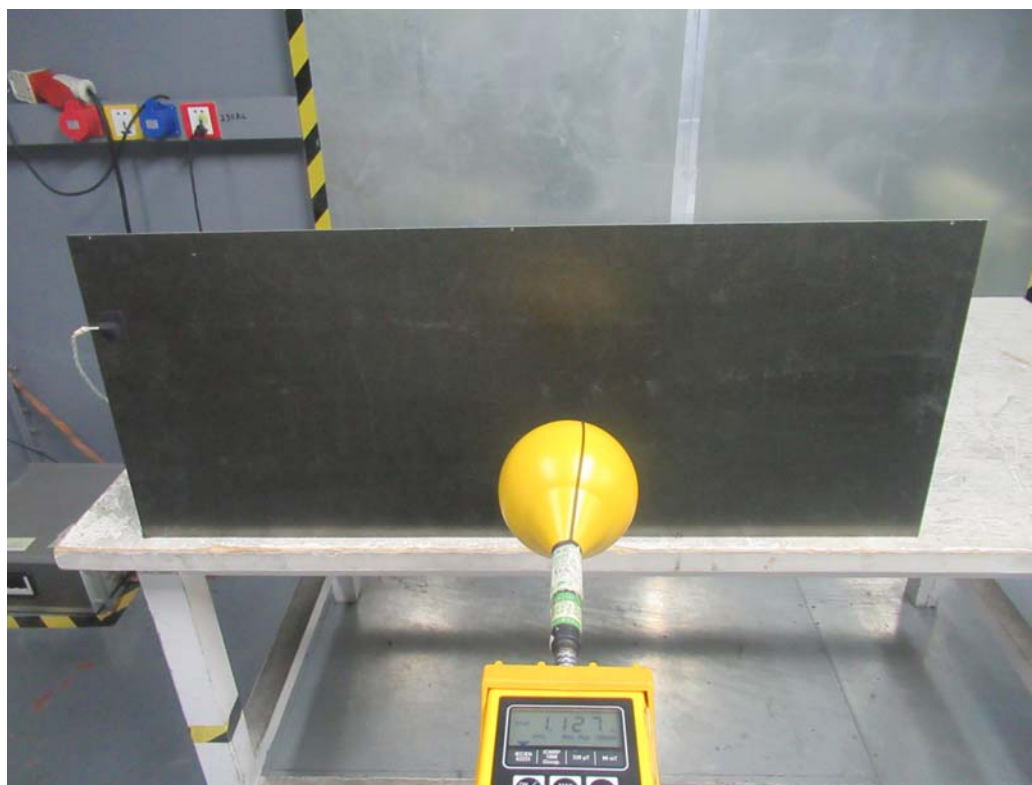
Operation mode: Continuously (30cm)						
Measuring Positions	Front	Rear	Left	Right	Top	Bottom
Result	---	---	---	---	---	---

Operation mode: Continuously (10cm)						
Measuring Positions	Front	Rear	Left	Right	Top	Bottom
Result	---	---	---	---	---	---

Operation mode: Continuously (3cm)						
Measuring Positions	Front	Rear	Left	Right	Top	Bottom
Result	3	---	---	---	---	---

4. PHOTOGRAPH

Measuring distance : 30cm



Front View

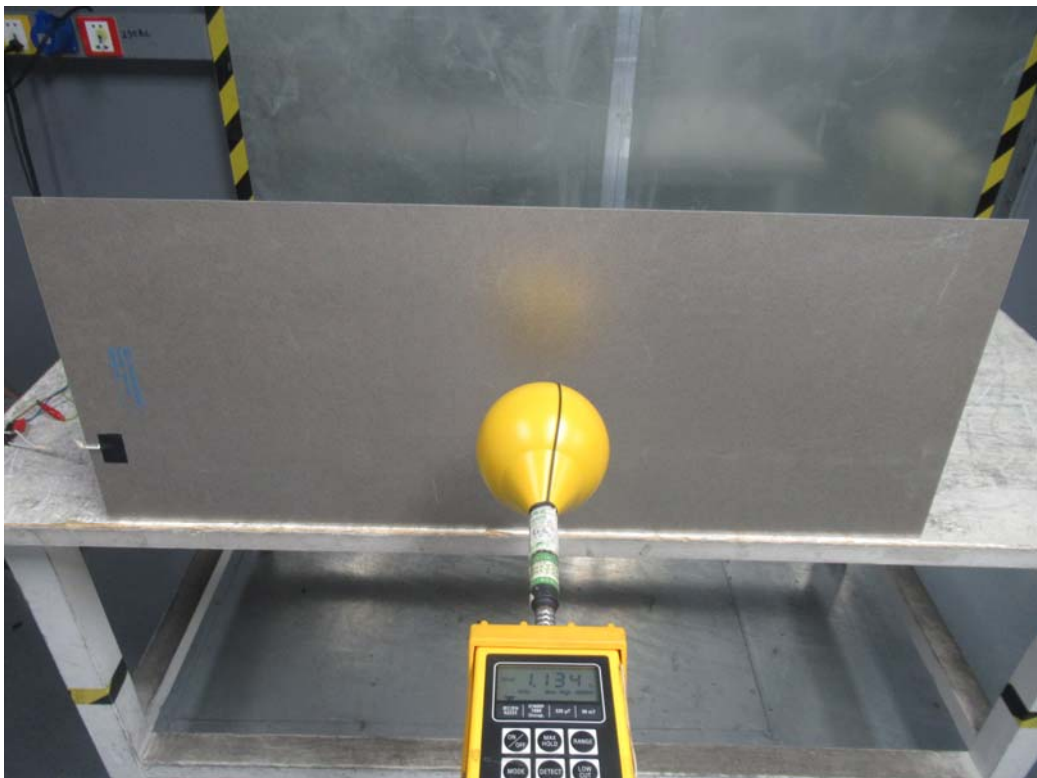


Rear View

Measuring distance : 10cm



Front View



Rear View

Measuring distance : 3cm

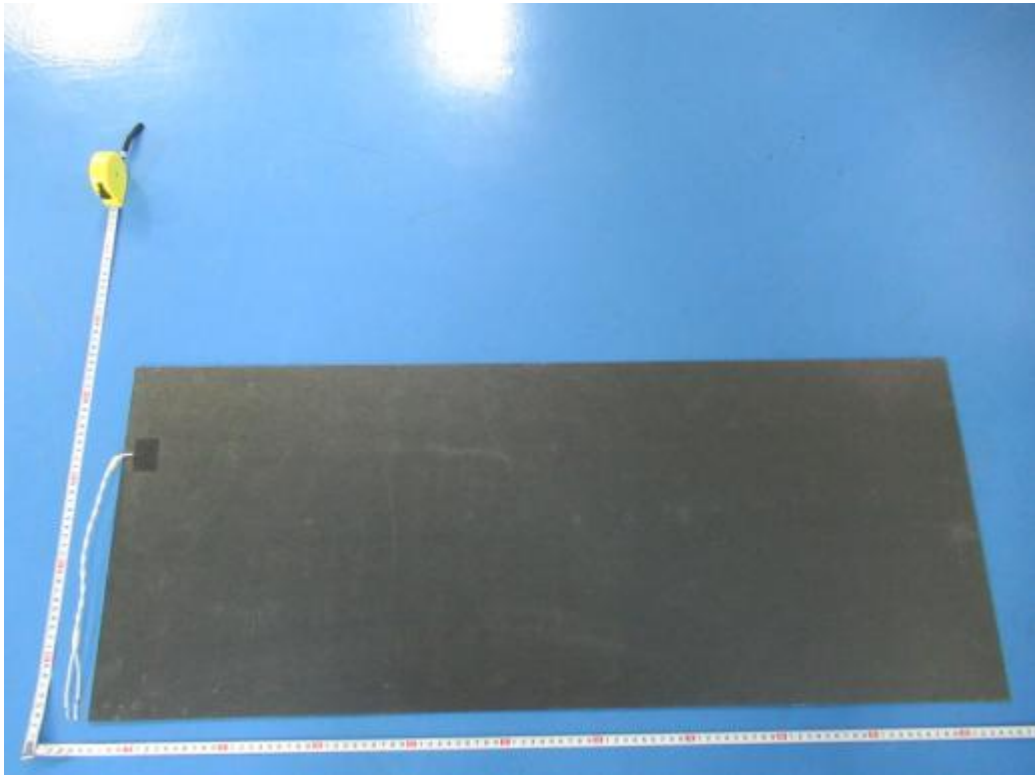


Front View

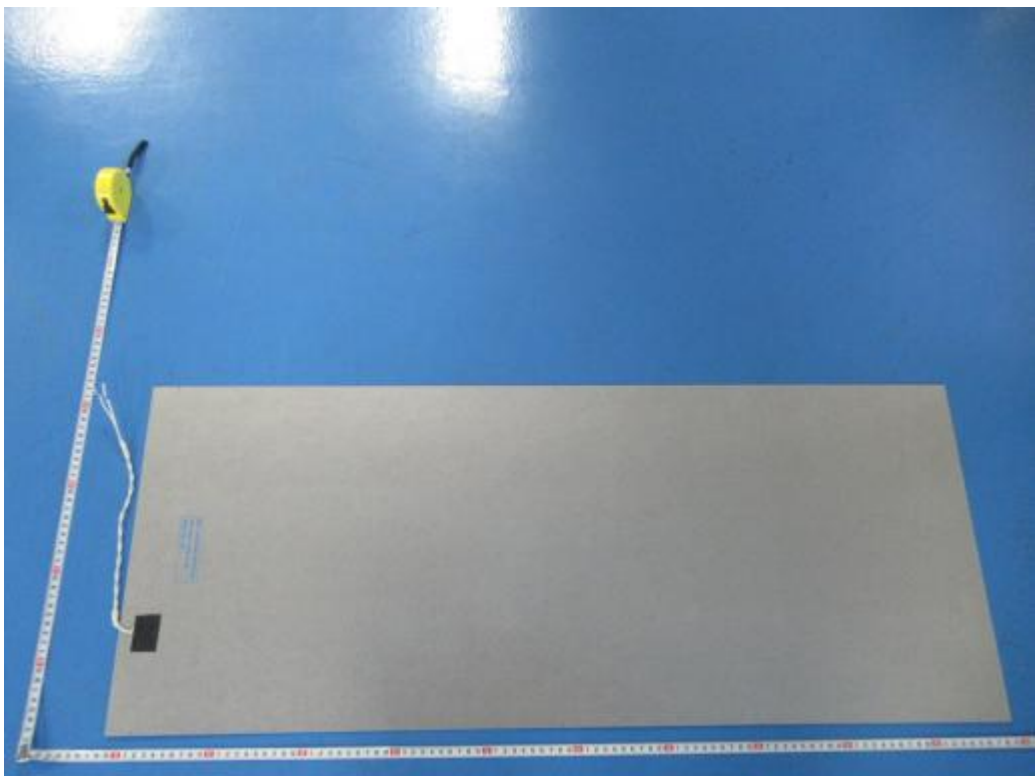


Rear View

5. PHOTOS OF THE EUT



EUT View



EUT View

6. APPENDIX

Mode List		
DYB12-2A1	DYB12-2A2	DYB12-2A3
DYB12-2A4	DYB12-2A5	DYB12-2A6
DYB12-2A7	DYB12-2A8	DYB12-2A9
DYB12-2A10	DYB12-2A11	DYB12-2A12
DYB12-2A13	DYB12-2A14	DYB12-2A15
DYB12-2A16	DYB12-2A17	DYB12-2A18

-----End of report-----