FCC RF EXPOSURE REPORT

FCC ID: 2BFBQ-GTMF-B30Y

Test Report No……..:	RF240122006-03-003
Product(s) Name……...:	Heat Pump
Model(s)……..:	GTMF-B30Y, GTHP-001UMI-SI, GTHP-003UMI-SI, GTMF-B10Y, GTHP-YTRS003, GTHP-YTRS004, GTHP-YTRS005, GTHP-YTRS006, GTMF-B110Y, GTMF-B130Y, GTMF-B200Y
Trade Mark……...:	GRAT GREATPOOL OIBATH
Applicant……..…:	SICHUAN GREAT TECHNOLOGY CO., LTD.
Address……..…...:	1st Floor, No. 159, Section 3, Huayang Avenue, Huayang Street, Tianfu New District, Chengdu City, Sichuan Province
Receipt Date……..:	2024.02.02
Test Date……....:	2024.02.28~2024.04.11
Issued Date……..…:	2024.04.12
Standards……..…:	CFR47 FCC Part 1: Section 1.1310; CFR47 FCC Part 2: Section 2.1091 FCC KDB Publication 447498 D01v06
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Tim Zhang	Misue Su	
Jason huang	Tim.zhang	Misue Su	

History of this test report

Original Report Issue Date: 2024.04.11

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. TEST FACILITY

Company:	Shenzhen Haiyun Standard Technical CO., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier:	CN0145
A2LA Certificate Number:	6823.01
Telephone:	0755-26024411

2.. MPE CALCULATION METHOD

➢ **Product Classification**

This device defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

➢ **Radio Frequency Exposure Limit**

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

➢ **Radio Frequency Exposure Calculation Formula**

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

where: S = power density (in appropriate units, e.g. mW/cm^2)
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
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

or:

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

where: EIRP = equivalent (or effective) isotropically radiated power

➢ **Table for Filed Antenna**

For BLE & 2.4G WIFI

Ant.	Brand	Antenna Type	Connector	Gain (dBi)
1	N/A	PCB	N/A	2.54

3.. TEST RESULTS

Worse case data:

Mode	*Measured RF Output Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)	MPE Value (mW/cm²)	FCC Limit (mW/cm²)
BLE	6.58	2.54	8.17	0.0016	1.0
2.4G WIFI	17.77	2.54	107.40	0.0214	1.0

Note:

Note: 1. The calculated distance is 20 cm.

Note: 2. BT and WiFi do not support working simultaneously.

➢ **Conclusion**

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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（END OF REPORT）