

# EMF TEST REPORT

**Test Report No.** : OT-254-RWD-017  
**Reception No.** : 2403001087  
**Applicant** : Charmcare Co.,Ltd.  
**Address** : (Gasandigital1-ro, Guemcheon-gu, Seoul, South Korea)  
**Manufacturer** : Charmcare Co.,Ltd.  
**Address** : (Gasandigital1-ro, Guemcheon-gu, Seoul, South Korea)  
**Type of Equipment** : Automated electronic sphygmomanometer  
**FCC ID.** : 2AUUU-4A02  
**Model Name** : H2-BP  
**Multiple Model Name** : H2-BPL, H2-BPS  
**Serial number** : N/A  
**Total page of Report** : 6 pages (including this page)  
**Date of Incoming** : August 20, 2024  
**Date of issue** : April 15, 2025

## SUMMARY

The equipment complies with the regulation; *FCC 47 CFR Part 1, 1.1310*

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.





Tested by  
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 ONETECH Corp.

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**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-254-RWD-017	April 15, 2025	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : Charmcare Co.,Ltd.

Address : (Gasam-dong, Woolim Lions2-cha), 714, 2, Gasandigital1-ro, Guemcheon-gu, Seoul, South Korea

Contact Person : DongHwa, Lee / CEO

Telephone No. : +82-70-4742-7878

FCC ID : 2AUUU-4A02

Model Name : H2-BP

Brand Name : -

Serial Number : N/A

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Automated electronic sphygmomanometer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

- . The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. GENERAL INFORMATION

### 2.1 Product Description

The Charmcare Co.,Ltd., Model H2-BP (referred to as the EUT in this report) is a Automated electronic sphygmomanometer. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Automated electronic sphygmomanometer
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
MODULATION TYPE	GFSK
RF OUTPUT POWER	-3.09 dBm
NUMBER OF CHANNEL	40 Channel
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	-2.87 dBi
Electrical Rating	DC 3.7 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz

### 2.2 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
H2-BP	Basic Model	<input checked="" type="checkbox"/>
H2-BPL, H2-BPS	This model is identical to the basic model except for the difference of the length of the wrist strap.	<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

## 3. EUT MODIFICATIONS

-. None

## 4. RF EXPOSURE EVALUATION

### 4.1 RF Exposure Calculation

According to the FCC rule §4.3. General SAR test exclusion guidance, the limit for 1-g and 10-g SAR test exclusion thresholds are  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm

### 4.2 EUT Description

Kind of EUT	Automated electronic sphygmomanometer
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

### 4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3.0$$

$$= [(0.32/5)] \times \sqrt{2.480} = 0.101$$

#### 4.3.1 Test data for Bluetooth LE

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Antenna Gain (dBi)	E.I.R.P power (dBm)	E.I.R.P power (mW)	Separation distance (mm)	RF exposure
2 480.00	-3.09 ± 1.0	-2.09	-2.87	-4.96	0.32	5	0.101