

# RF Exposure Evaluation Report

Product Name : Automatic Upper Arm Type Blood Pressure Monitor  
Model No. : HL858CE  
FCC ID : 2ABTAHNL85CE1

Applicant : Health & Life Co. Ltd.

Address : 9F., No. 186, Jian Yi Road, Zhonghe District, New Taipei City, Taiwan

Date of Receipt : Jul. 19, 2021  
Date of Declaration : Aug. 09, 2021  
Report No. : 2170802R-RFUSMPEV02  
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Aug. 09, 2021

Report No.: 2170802R-RFUSMPEV02



Product Name	Automatic Upper Arm Type Blood Pressure Monitor	
Applicant	Health & Life Co. Ltd.	
Address	9F., No. 186, Jian Yi Road, Zhonghe District, New Taipei City, Taiwan	
Manufacturer	Health & Life Co. Ltd.	
factory (ies)	1. Living Science Co., Ltd. 2. Health & Life Medical Technology Company Limited	
Model No.	HL858CE	
FCC ID.	2ABTAHNL85CE1	
Trade Name	Health & Life	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq$ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By : Jinn Chen  
( Supervisor / Jinn Chen )

Tested By : wen Lee  
( Supervisor / Wen Lee )

Approved By : Tim Sung  
( Manager / Tim Sung )

## Revision History

Report No.	Version	Description	Issued Date
2170802R-RFUSMPEV02	V1.0	Initial issue of report.	Aug. 09, 2021

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Automatic Upper Arm Type Blood Pressure Monitor
Trade Name	Health & Life
Model No.	HL858CE
FCC ID.	2ABTAHNL85CE1
Frequency Range	2402-2480MHz
Channel Number	V4.2: 40CH
Type of Modulation	V4.2: GFSK (1Mbps)
Antenna Type	PCB Antenna
Antenna Gain	Refer to the table "Antenna List"

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	LaBest	LB-BLE-005	PCB Antenna	2.23 dBi for 2.4GHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ( $\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum peak output power Peak Gain: 2.23dBi			SAR Test Exclusion Threshold (mW)	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	conducted (dBm)	EIRP (dBm)	EIRP (mW)		
2402	5.61	7.84	6.08	10	1.885

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2170802R-RFUSBLEV01 from the DEKRA.