ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No.	: OT-207-RWD-063
AGR No.	: A206A-120
Applicant	: InBody Co., Ltd.
Address	: InBody Bldg., 625, Eonju-ro, Gangnam-gu, Seoul, 06106, South Korea
Manufacturer	: InBody Co., Ltd.
Address	: 15, Heugam-gil, Ipjang-myeon, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31025 KOREA
Type of Equipment	: Blood Pressure Monitor
FCC ID.	: F6O-INBODY-BP170B
Model Name	: BP170B
Multiple Model Name	: BP160B
Serial number	: N/A
Total page of Report	: 7 pages (including this page)
Date of Incoming	: July 08, 2020
Date of issue	: July 30, 2020

SUMMARY

Reviewed by:

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247* 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.

Mand

Tae-Ho, Kim / Senior Manager ONETECH Corp.

Approved by:

EMC-003 (Rev.2)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

Ki-Hong, Nam / General Manager ONETECH Corp.



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected	
0 OT-207-RWD-063		July 30, 2020	Initial Release	All	



1. VERIFICATION OF COMPLIANCE

Applicant	: InBody Co., Ltd.			
Address	: InBody Bldg., 625, Eonju-ro, Gangnam-gu, Seoul, 06106, South Korea			
Contact Person	: Kyung Keun, Kim / Manager			
Telephone No.	: +82-2-300-2241			
FCC ID	: F6O-INBODY-BP170B			
Model Name	: BP170B			
Brand Name Serial Number Date	: InBody : N/A : July 30, 2020			
EQUIPMENT C	•	DTS – DIGITAL TRNSMISSION SYSTEM		
E.U.T. DESCRI	PTION	Blood Pressure Monitor		
THIS REPORT	CONCERNS	Original Grant		
MEASUREMEN	NT PROCEDURES	ANSI C63.10: 2013		
TYPE OF EQUI	IPMENT TESTED	Pre-Production		
KIND OF EQUIPMENT AUTHORIZATION REQUESTED		Certification		
EQUIPMENT WILL BE OPERATED		FCC PART 15 SUBPART C Section 15.247		
UNDER FCC RULES PART(S)		KDB 558074 D01 15.247 Meas Guidance v05r02		
Modifications or Achieve Compli	n the Equipment to ance	None		
Final Test was C	Conducted On	3 m Semi Anechoic Chamber		

-. 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 InBody Co., Ltd., Model BP170B (referred to as the EUT in this report) is a Blood Pressure Monitor. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Blood Pressure Monitor		
Temperature Range	10 °C ~ 40 °C		
Operating Frequency	2 402 MHz ~ 2 480 MHz		
RF Output Power -7.08 dBm			
Number of Channel 40 Channel			
Modulation Type	GFSK (Bluetooth LE)		
Antenna Type	Chip Antenna		
Antenna Gain	1.99 dBi		
List of each Osc. or crystal			
Freq.(Freq. >= 1 MHz)	16 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
BP170B	Basic Model (One-touch Cuff)	V
BP160B	The models are identical to basic model but the Cuff is different. (Normal Cuff)	

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

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

3. EUT MODIFICATIONS

-. None



4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 Applicable Standard

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.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20 cm.

As per KDB 447498 D01, The 1-g and 10-g SAR test exclusion thesholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are detrmined by:

[(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [$\sqrt{f(GHz)}$] < 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

F(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison.

4.2 EUT Description

Kind of EUT	Blood Pressure Monitor			
	■ Portable (< 20 cm separation)			
Device Category	\Box Mobile (> 20 cm separation)			
	□ Others			
	\Box MPE			
Exposure	□ SAR			
Evaluation Applied	■ N/A			



4.3 Test Result

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

[(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [$\sqrt{f(GHz)}$] < 3 = (0.22/5) X $\sqrt{2.440}$ = 0.07

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and are excluded from SAR Test.

Operating Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
	2 402.00	-7.50 ± 0.5	-7.00	0.20	5.00	0.06
Bluetooth LE	2 441.00	-7.00 ± 0.5	-6.50	0.22	5.00	0.07
	2 480.00	-7.50 ± 0.5	-7.00	0.20	5.00	0.06

Tested by: Hyung-Kwon, Oh / Manager