

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

Test Report No. : OT-181-RWD-013

AGR No. : A17NA-424

Applicant : InBody Co., Ltd.

Address : InBody Bldg., 54, Nonhyeon-ro 2-gil, Gangnam-gu, Seoul, 135-960, Korea

Manufacturer : InBody Co., Ltd.

Address : 15, Heugam-gil, Ipjang-myeon, Seobuk-gu, Cheonan-si, Chungcheongnam-do, 31025,

**KOREA** 

Type of Equipment : Body Composition Analyzer

FCC ID. : F6O-INBODY-H20N

Model Name : InBody H20N

Multiple Model Name: InBody H20B

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : December 26, 2017

Date of issue : January 10, 2018

### **SUMMARY**

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.

Reviewed by:

Ki-Hong, Nam / Asst, Chief Engineer ONETECH Corp.

Approved by:

Keun-Young, Choi / Vice President

Report No. : OT-181-RWD-013

ONETECH Corp.





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**Revision History** 

Issued Report No.	Issued Date	Revisions	Effect Section
OT-181-RWD-013	January 10, 2018	Initial Issue	All





## 1. VERIFICATION OF COMPLIANCE

Applicant : InBody Co., Ltd.

Address : InBody Bldg., 54, Nonhyeon-ro 2-gil, Gangnam-gu, Seoul, 135-960, Korea

Contact Person: Dong-Hyun Woo / Quality Approval Team / Employee

Telephone No. : +82-2-2182-1836

FCC ID : F6O-INBODY-H20N

Model Name : InBody H20N

Brand Name : InBody

Serial Number : N/A

Date : January 10, 2018

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Body Composition Analyzer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	
AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED	FOG DART 15 GURDART OF COLUMN 15 247
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve	New
Compliance	None
Final Test was 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 InBody H20N (referred to as the EUT in this report) is a Body Composition Analyzer. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Body Composition Analyzer
Temperature Range	10 °C ~ 40 °C
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-0.61 dBm
Number of Channel	40 Channel
Modulation Type	DSSS Modulation(GFSK)
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
InBody H20N	Basic Model	V
InBody H20B	These model are identical to basic model except for model designation and color.	

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 RF Exposure Calculation**

According to the FCC rule 1.1310, the limit for General Population/Uncontrolled exposure is  $1 \text{ mW/cm}^2$  for the device operating  $1.500 \sim 100\,000 \text{ MHz}$ .

**4.2 EUT Description** 

4.2 EUT Description	
Kind of EUT	Body Composition Analyzer
	☐ Wireless Microphone: 494.000 MHz ~ 501.000 MHz
	and 498.200 MHz ~ 505.200 MHz
	□ WLAN: 2 412 MHz ~ 2 462 MHz
Operating Frequency Band	□ WLAN: 5 180 MHz ~ 5 240 MHz
	□ WLAN: 5 745 MHz ~ 5 825 MHz
	☐ Bluetooth: 2 402 MHz ~ 2 480 MHz
	■ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz
	☐ Portable (< 20 cm separation)
Device Category	☐ Mobile (> 20 cm separation)
	■ Others
MAX. RF OUTPUT POWER	-0.61 dBm
Antenna Gain	1.99 dBi
	□ 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  $[(Max.\ Power\ of\ channel,\ including\ tune-up\ tolerance,\ mW)/(Mim.\ test\ separation\ distance,\ mm)]\ X\ [\ \sqrt{\ f(GHz)}] < 3$   $= [0.87/5)]\ X\ \sqrt{\ 2.402} = 0.27$ 

Tested by: Tae-Ho, Kim / Manager