RF Exposure Evaluation Report

Product Name : Hearing Aid

Model No. : HL203

FCC ID : 2ABTAHNL203

Applicant : Health & Life Co., Ltd.

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

Date of Receipt : Mar. 27, 2020

Date of Declaration : Apr. 20, 2020

Report No. : 2030771R-SAUSP03V00

Report Version : V1.0

Issued Date: Apr. 20, 2020
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Product Name	Hearing Aid	
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. Health & Life (Suzhou) Co., Ltd. 2. Living Science Co., Ltd.	
Model No.	HL203	
FCC ID.	2ABTAHNL203	
Trade Name	Health & Life	
Applicable Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

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Approved By :
(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Hearing Aid
Trade Name	Health & Life
Model No.	HL203
FCC ID.	2ABTAHNL203
Frequency Range	2402-2480MHz
Channel Number	BT: 79 CH BLE: 40 CH
Type of Modulation	BT: FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps) BLE: GFSK(1Mbps)
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X	AT1608-A2R4NAA_	Chip Antenna	0.5dBi 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 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

BT

Frequency Band (MHz)	Maximum output power Peak Gain: 0.5dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Power (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2402 – 2480	3.95	4.45	2.79	10	0.871

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2030771R-E3032110108 from the DEKRA.

BLE

Frequency Band (MHz)	Maximum output power Peak Gain: 0.5 dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Power (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2402 – 2480	3.87	4.37	2.74	10	0.855

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2030771R-RFUSP01V01 from the DEKRA.