

## RF Exposure Evaluation declaration

Product Name : M2 Nurse Call Module

Model No. : BM-B01

FCC ID : 2AQXIMTN-M2

Applicant : Melten Inc.

Address : 7F.-3, No.51, Sec. 4, Zhongyang Rd., Tucheng Dist.,  
New Taipei City 236, Taiwan (R.O.C.)

Date of Receipt : Jun. 05, 2018

Date of Declaration : Aug. 24, 2018

Report No. : 1860048R-SAUSP03V00

Report Version : V0.1-Draft



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 of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Aug. 24, 2018

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Applicant	Melten Inc.
Address	7F.-3, No.51, Sec. 4, Zhongyang Rd., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C.)
Manufacturer	Melten Inc.
Model No.	BM-B01
FCC ID.	2AQXIMTN-M2
Trade Name	Melten
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By

:

Elephant Chen

( Senior Adm. Specialist / Elephant Chen )

Tested By

:

wen Lee

( Engineer / Wen Lee )

Approved By

:



( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	M2 Nurse Call Module
Model No.	BM-B01
Trade Name	Melten
FCC ID	2AQXIMTN-M2
Frequency Range	Bluetooth: 2402-2480MHz
Number of Channels	Bluetooth: 79 , BLE: 40
Data Speed	Bluetooth: 3Mbps , BLE: 1Mbps
Type of Modulation	Bluetooth: FHSS: GFSK(1Mbps) / $\pi$ / 4DQPSK(2Mbps) / 8DPSK(3Mbps) BLE: GFSK(1Mbps)
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

### 1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Melten	N/A	Print on PCB	-1.17dBi for 2.4 GHz

## 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  $(\text{Power(mW)}/\text{separation (mm)}*\sqrt{f(\text{GHz})}\leq 3.0)$ , SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2480MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

Frequency Band	Maximum peak output power		SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	(dBm)	(mW)	(mW)	
2480MHz	8.21	6.62	10	2.086

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted maximum peak output power is refer to report No.: 1860048R-RFUSP01V00 and 1860048R-RFUSP01V00-B from the DEKRA.