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Report No.: 2408TW0501-U3
Report Version: 1.0
Issue Date: 2024-09-12

RF Exposure Evaluation Declaration

FCC ID: 2ALTTMDM-200
APPLICANT: i3-Technologies N.V.
Application Type: Certification
Product: iMO-LEARN MDM2
Model No.: MDM-200
Trademark: 
FCC Rule Part(s): Part 2.1093 (Portable)
Test Procedure(s): KDB 447498 D01v06
Test Date: August 21, 2024

Reviewed By : 
(Paddy Chen)

Approved By : 
(Chenz Ker)



Testing Laboratory
3261

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2408TW0501-U3	1.0	Original Report	2024-09-12	

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	iMO-LEARN MDM2
Model No.	MDM-200
Trademark	
Bluetooth Specification	V5.1 LE
Operating Frequency	2402~2480MHz
Modulation Type	GFSK

Note : This product includes Sensor & Dongle, which are sold as a set and are both used together for evaluation and testing.

1.2. Antenna Description

No.	Brand	Part No.	Antenna Type	Peak Gain
1	Gwell	STBT40-XXX	PCB	0dBi

2. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1. FCC Limits

According to FCC KDB 447498 Section 4.3 - General SAR test exclusion guidance

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison
4. The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

2.2. Test Result

Mode	Frequency Band (MHz)	Average Output Power (dBm)	Output Power (mW)	FCC SAR Test Exclusion Threshold (mW)
BLE	2402~2480	2.43	1.75	3

So, this device can complies the SAR test exclusion.

_____ The End _____