

#### Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

Thisa Luc Sunny Deng Sutter

## RF Exposure Evaluation Report

Report Reference No...... MTEB25010147-H FCC ID.....: 2BMMUZM131

Compiled by

( position+printed name+signature)..: File administrators Alisa Luo

Supervised by

( position+printed name+signature)..: Test Engineer Sunny Deng

Approved by

( position+printed name+signature)... Manager Yvette Zhou

Date of issue....: Jan.17,2025

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Address .....:

Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... Z.M.C. Metal Coating Inc.

Test specification/ Standard ..........: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator....: Shenzhen Most Technology Service Co., Ltd.

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Test item description .....: 25mm HC Li-ion Motor Wand Pull 1.1Nm

Trade Mark .....: N/A

Model/Type reference....: ZM-131

Listed Models ...... N/A

Modulation Type ...... GFSK

Operation Frequency...... From 2402MHz to 2480MHz

Hardware Version..... 25.130

Software Version ..... 25.130

DC 7.4V by Battery Rating .....:

DC 5V by USB Port

Result..... PASS

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#### TEST REPORT

Equipment under Test : 25mm HC Li-ion Motor Wand Pull 1.1Nm

Model /Type : ZM-131

Listed Models : N/A

Remark N/A

Applicant : Z.M.C. Metal Coating Inc.

Address : 40 Gaudaur Road, Woodbridge, Ontario L4L 4S6, Canada

Manufacturer : Shenzhen BOFU Mechanic & Electronic Co., Ltd.

Address : Building D, Hejing Industrial Zone 1, High tech Park, Heping

Community, Fuhai Street, Bao'an District, Shenzhen

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.01.17	Initial Issue	Alisa Luo

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## 2. SAR Evaluation

## 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **2.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  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<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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 is applied to determine SAR test exclusion

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# 2.1.3 EUT RF Exposure

## Measurement Data

BLE

GFSK			
	Peak Output Power (dBm)	Tune up tolerance	Maximum tune-up Power
	, ,	(dBm)	(dBm)
Lowest(2402MHz)	0.346	$0.346 \pm 1$	1.346
Middle(2440MHz)	0.225	$0.225 \pm 1$	1.225
Highest(2480MHz)	0.627	$0.627 \pm 1$	1.627

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximun Pov (dBm)	-	Calculated value	Exclusion threshold	SAR Test Exclusion
Highest(2480MHz)	0.627	1.627	1.45	0.46	3.0	Yes

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