

# **RF Exposure Report**

**Report No.:** SA200417E02

FCC ID: MAD-G08RRH-46-06B

Test Model: G08RRH-46-06B

Received Date: Apr. 17, 2020

Test Date: May 23, 2020

Issued Date: June 18, 2020

Applicant: Microelectronics Technology Inc.

Address: No. 1, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan,

R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwar

FCC Registration /

Designation Number: 723255 / TW2022

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## **Release Control Record**

Issue No.	Description	Date Issued
SA200417E02	Original release.	June 18, 2020



#### **Certificate of Conformity** 1

Product: LionHead 2x40W B5 RRH

Brand: MTI

Test Model: G08RRH-46-06B

Sample Status: ENGINEERING SAMPLE

**Applicant:** Microelectronics Technology Inc.

Test Date: May 23, 2020

FCC Part 2 (Section 2.1091)

Standards:

IEEE C95.3 -2002

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Vivian Huang / Specialist June 18, 2020

Approved by: June 18, 2020 Date:

Clark Lin / Technical Manager



#### 2 RF Exposure

## 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Magnetic Field Strength (V/m) Strength (A/m)		Power Density (mW/cm2)	Average Time (minutes)				
(A)Limits For Occupational / Control Exposures								
300-1500			F/300	6				
1500-100,000			5	6				
(B)Limits For General Population / Uncontrolled Exposure								
300-1500			F/1500	30				
1500-100,000			1.0	30				

F = Frequency in MHz

#### 2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$ 

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 400 cm away from the body of the user. So, this device is classified as fixed station and installations by professional service persionnel device.



## 3 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Antenna Gain (dBi)	Frequency range(MHz)	Antenna Type	Connector Type
18	806-894	Sector	4×4.3-10 Female



## 4 Calculation Result

## For LTE Band 5

Frequency Band (MHz)	Average - Per	/MHz)	Max Conducted Average Power - Totaol (dBm/MHz)	Gain (dBi)	Power	Max EIRP Power (mW/MHz)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
871.5~891.5	39.13	39.11	42.13	18	60.13	1030386.12	400	0.51251	0.581

EIRP Power = Conducted Power+ Antenna gain

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