

# FCC RF EXPOSURE REPORT

## FCC ID: 2BE2UCMT2390F64

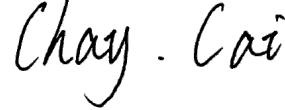
**Project No.** : 2312C184  
**Equipment** : sub-1GHz soc transceiver  
**Brand Name** : CMOSTEK  
**Test Model** : CMT2390F64-EQR  
**Series Model** : N/A  
**Applicant** : Shenzhen Hope Microelectronics Co., Ltd.  
**Address** : 30th floor of 8th Building, C Zone, Vanke Cloud City, Xili Sub-district, Nanshan, Shenzhen, GD, China  
**Manufacturer** : Shenzhen Hope Microelectronics Co., Ltd.  
**Address** : 30th floor of 8th Building, C Zone, Vanke Cloud City, Xili Sub-district, Nanshan, Shenzhen, GD, China  
**Factory** : Shenzhen Hope Microelectronics Co., Ltd.  
**Address** : 30th floor of 8th Building, C Zone, Vanke Cloud City, Xili Sub-district, Nanshan, Shenzhen, GD, China  
**Date of Receipt** : Jan. 09, 2024  
**Date of Test** : Jan. 12, 2024 ~ Feb. 03, 2024  
**Issued Date** : Mar. 18, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20240109167  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

**Prepared by**

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2312C184	R00	Original Report.	Mar. 18, 2024	Valid

## 1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

## 2. ANTENNA SPECIFICATION

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	SHEN ZHEN GERBOLE ELEC. TECHNOLOGY CO. , LTD	TLB-433-J-3800E	Dipole	SMA/J	2.15

Note: The antenna gain is provided by the manufacturer.

### 3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.15	1.6406	-11.08	0.0780	0.00003	1	Complies

**Note:**

- 1) For 433.8MHz:  $84.22\text{dB}\mu\text{V/m} = -11.08\text{dBm}$
- 2) The calculated distance is 20 cm.

**End of Test Report**