FCC RF EXPOSURE REPORT

Applicant	:	Guangdong Hiway Integrated Circuit Technology Co., Ltd.
Address of Applicant	:	No. 1 Headquarters, Songshan Lake High Technology Industrial Park, Dongguan City, Guangdong Province, People's republic of China
Manufacturer	:	Guangdong Hiway Integrated Circuit Technology Co., Ltd.
Address of Manufacturer	:	No. 1 Headquarters, Songshan Lake High Technology Industrial Park, Dongguan City, Guangdong Province, People's republic of China
Equipment under Test	:	Hand LF Tool
Model No.	:	HW71012-SGY-330
FCC ID	:	2BLDF-HW71012
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24091103-2E02
Issue Date	:	2024/11/29
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE24091103-2E02		
Date of Receipt:	2024/09/29	**Date of Test:**	2024/09/29~2024/10/28

Prepared By:

Jason Cao/Engineer

Approved By:

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/11/29	

1. General Information

1.1. Description of equipment

EUT Name	:	Hand LF Tool
Model Number	:	HW71012-SGY-330
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 5V from external USB cable 3.7V built-in battery, 2600mAh

Modulation	:	ASK
Operation frequency	:	125 kHz

Antenna information		
Antenna Type	:	Inductive loop coil antenna

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"☒" means to be chosen or applicable; "☐" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

4.2.4. Transmitters implanted in the body of a user
When the aggregate of the maximum power available at the antenna port and radiating structures of an implanted transmitter, under all operating circumstances, is ≤ 1.0 mW, SAR test exclusion may be applied. 27 The maximum available output power requirement and worst case operating conditions must be supported by power measurement results, based on device design and implementation requirements, and fully justified in a SAR analysis report according to KDB Publication 865664 D02, in lieu of SAR measurement or numerical simulation.

Manufacturing Tolerance

Mode	Antenna	Frequency [kHz]	Target (dBm)	Tolerance ±(dB)
ASK	Ant1	125	-29	1

PK Output Power=71.43 dBμV/m @3m - 95.2 - 6= -29.77dBm

Please refer to the test report “DDT-RE24091103-2E01”

Estimation Result

Worse case is as below: [125 kHz, -28 dBm, (0.002 mW) output power]

Then SAR evaluation is not required.

END OF REPORT