



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, Peoples 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, Peoples republic of China
Equipment under Test	:	Sensor
Model No.	:	HW48244-SGY-100
FCC ID	:	2BLDF-HW48244
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24091103-3E02
Issue Date	:	2024/11/20
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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Equipment under Test	:	Sensor
Model No.	:	HW48244-SGY-100
Manufacturer	:	Guangdong Hiway Integrated Circuit Technology Co., Ltd.
Address of Manufacturer	:	No. 1 Headquarters, Songshan Lake High Technology Industrial Park, Dongguan City, Guangdong Province, Peoples republic of China

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

Report No.:	DDT-RE24091103-3E02		
Date of Receipt:	2024/09/14	Date of Test:	2024/09/14~2024/10/22

Prepared By:**Jason Cao/Engineer****Approved By:****Damon Hui/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	2024/11/20	

1. General Test Information

1.1. Description of EUT

EUT Name	: Sensor
Model Number	: HW48244-SGY-100
EUT Function Description	: Please reference user manual of this device
Power Supply	: Button cell 3V

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. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test 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

2.1. Assessment procedure

According to 447498 D01 General RF Exposure Guidance v06

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

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

2.2. Assess result

Manufacturing Tolerance:

Mode	Antenna	Frequency (MHz)	Target (dBm)	Tolerance $\pm(\text{dB})$
FSK	Ant1	433.92	-21	1

PK Output Power=73.69 dBuV/m @3m - 95.2= -21.51dBm

Please refer to the test report "DDT-RE24091103-3E01"

Estimation Result:

Worse case is as below: [433.92 MHz, -20 dBm, (0.01 mW) output power]

$(0.01/5) \cdot [\sqrt{0.43392(\text{GHz})}] = 0.001 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

-----End Report-----