

# RF Exposure Evaluation of

E.U.T. : GCB Pulse Oximeter  
Model No. : GCB-X001  
Serial Model : ---  
FCC ID : 2AW5L-GCBX001

for

APPLICANT : Taiwan Green Cross Co., Ltd.  
ADDRESS : 6F., No. 244, Sec. 3, Chengteh Road,  
Taipei, 10367, Taiwan, R.O.C.

Test Performed by

**Taiwan Testing and Certification Center**  
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NEW TAIPEI CITY, TAIWAN, 24442, R.O.C.  
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Report Number : 19-12-RBF-011-04

# TEST REPORT CERTIFICATION

Applicant : Taiwan Green Cross Co., Ltd.

6F., No. 244, Sec. 3, Chengteh Road, Taipei, 10367, Taiwan,  
R.O.C.

Manufacturer : ESTSTAR International Corp.

11F., #83, Zhongcheng Road, Tucheng Dist., New Taipei 23674,  
Taiwan

## Description of EUT

- a) Type of EUT : GCB Pulse Oximeter
- b) Trade Name : Green Cross Pulse Oximeter
- c) Model No. : GCB-X001
- d) Serial Model : ---
- e) Power Supply :
  - 1. 3.7Vdc Battery
  - 2. 120Vac/60Hz(Power from Adapter)
- f) Frequency Range : 2402-2480 MHz

Regulation Applied : FCC KDB447498 D01. The equipment fulfills the requirements on power density for general population/uncontrolled exposure and therefore fulfills the requirements of section 1.1310 of FCC 47 CFR Part 1 and 2.1091 、 2.1093 of 47 CFR Part 2.

Note: 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of ETC

Date Test Item Received : Dec. 17, 2019  
Date Test Campaign Completed : Mar. 16, 2020  
Date of Issue : Jun. 09, 2020

Test  
Engineer :

Kazuma Ho

(Kazuma Ho, Engineer )



Approve & Authorized Signer :

Vincent Chang

Vincent Chang, Supervisor  
EMC Dept. II of Taiwan Testing and  
Certification Center

## Product Information:

Type of EUT: GCB Pulse Oximeter

FCC ID: 2AW5L-GCBX001

Model: GCB-X001

Serial Model: ---

Description: Radio with Bluetooth

Maximum conducted output power (rated): 1.38 dBm or 1.374 mW

The following table lists the provided authorized antennas:

Model	Antenna Type	Antenna Gain	
		(dBi)	Numeric
N/A	PCB Antenna	1.5	1.41

## Relative Requirement for Compliance

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance  $\leq 50$  mm are determined by:

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

The max. Average power of channel, including tune up tolerance (mW) is 1.38 mW @2440 MHz (with tune up tolerance)

The min. test separation distance (mm) is 5 mm.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = \underline{0.178064516} < 3.0 \text{ (with tune up tolerance).}$$

Therefore, standalone SAR measurements are not required for both of head and body.