

GMC Inc.

TEST REPORT

SCOPE OF WORK:

FCC 2.1093 – RF Exposure Evaluation Report

Model:

HC700 BT

REPORT NUMBER

201200154TWN-001

ISSUE DATE

Jan. 12, 2021

PAGES

8

DOCUMENT CONTROL NUMBER

GFT-OP-10h (28-Nov-2018)

© 2020 Intertek



RF Exposure Evaluation Report

Applicant:	GMC Inc. No. 686 Su Chu Rd., Chuzhou, Anhui, China
Product:	Infrared Temple Thermometer
Model No.:	HC700 BT
FCC ID:	2AWWDFH4
Test Method/ Standard:	FCC 2.1093 KDB 447498
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



Zero Chen
Engineer



Durant Wei
Reviewer

Revision History

Report No.	Issue Date	Revision Summary
201200154TWN-001	Jan. 12, 2021	Original report

Table of Contents

1. General Information	5
1.1 Identification of the EUT	5
1.2 Antenna description	5
1.3 Peripherals equipment	5
2. Test specifications.....	6
2.1 RF Exposure calculations	6
2.2 Operation mode	6
2.3 Test equipment.....	6
2.4 Test Set-up	7
3. Test results	8

1. General Information

1.1 Identification of the EUT

Product:	Infrared Temple Thermometer
Model No.:	HC700 BT
Operating Frequency:	2402 MHz ~ 2480 MHz
Channel Number:	40 channels
Frequency of Each Channel:	2402+2 k, k=0 ~ 39
Rated Power:	DC 3V
Power Cord:	N/A
Sample receiving date:	Oct. 04, 2019
Sample condition:	Workable
Test Date(s):	Dec. 05, 2019

1.2 Antenna description

Antenna Gain : -6.2853 dBi
 Antenna Type : Printed antenna
 Connector Type : Fixed

1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Battery	Panasonic	LR03TTS/10S-R	N/A	N/A

2. Test specifications

2.1 RF Exposure calculations

According to KDB 447498 D01 , Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

Clause 4.3: General SAR test reduction and exclusion guidance Sub , clause 4.3.1: Standalone SAR test exclusion considerations

a) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR}$$

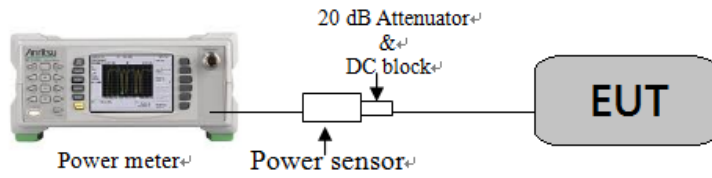
$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 7.5.0 \text{ for 10-g SAR}$$

2.2 Operation mode

The EUT was supplied with DC 3 V from battery.
EUT press the button to select different frequency and modulation.

2.3 Test equipment

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Power Meter	Anritsu	ML2495A	0844001	2019/10/23	2020/10/21
Power Sensor	Anritsu	MA2411B	0738452	2019/10/23	2020/10/21

2.4 Test Set-up

3. Test results

Mode	Frequency (GHz)	Conducted Power (dBm)	Distance (mm)	Tune-up Tolerance	Max Power (dBm)	Max Power (mW)	Result	SAR Test Exclusion Threshold	Exempt from Test?
BLE	2.402-2.480	1.79	5	1	2.79	1.90	0.599	3.0	Yes