



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Time Keeping Systems Inc.

Model: TAG-006

Description: Body Worn Location Device

Serial Number: N/A

FCC ID: MTD-0006

To

FCC Part 1.1310

Date of Issue: June 25, 2018

On the behalf of the applicant:

**Time Keeping Systems Inc.
30700 Bainbridge Rd
Cleveland, OH 44139**

Attention of:

**Blair Hamilton, Engineering Consultant
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**Prepared By
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Project No: p1850027**

**Kenneth Lee
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 19, 2018	Kenneth Lee	Original Document
2.0	June 25, 2018	Kenneth Lee	Updated the term BLE to GFSK in additional Information



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: TAG-006

Description: Body Worn Location Device

Firmware: N/A

Software: N/A

Serial Number: N/A

Antenna Gain: -1.6 dBi

Additional Information: The EUT implements GFSK.



SAR Exclusion

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{[\sqrt{f(\text{GHz})}]} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{25} \text{ where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Max Power in mW = 2.26 mW

Antenna Gain = -1.6 dB

Power with antenna gain = 1.57 mW

Min. Test Separation Distance = 1 mm

Frequency of Operation = 2426 MHz

The antenna gain of the device is negative; therefore the conducted output power was used for the final calculation.

$$\frac{2.26 \text{ mW}}{5 \text{ mm}} \times \sqrt{2.426} = 0.70401811$$

END OF TEST REPORT