

# RF Exposure Evaluation

**Project Number: 4412944****Proposal Number: 7292****Report Number: 4412944EMC03****Revision Level: 0****Client: Vitls, Inc.****Equipment Under Test: Vital Signs Monitoring Device****Model Name: Tego VSS Sensor****Model Number: VT-F-010****FCC ID: 2ASYD-VT-F-010****Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093****FCC KDB 447498 D01 General RF Exposure Guidance v06****Report issued on: 22 April 2019****Conclusion: Equipment is exempt from SAR testing**

*Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

*This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.*

*Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.*

## TABLE OF CONTENTS

<b>1</b>	<b>GENERAL INFORMATION.....</b>	<b>3</b>
1.1	CLIENT INFORMATION.....	3
1.1	TEST LABORATORY.....	3
1.2	GENERAL INFORMATION OF EUT.....	3
1.3	OPERATING MODES AND CONDITIONS.....	3
<b>2</b>	<b>SAR EXCLUSION CALCULATIONS.....</b>	<b>4</b>
<b>3</b>	<b>REVISION HISTORY.....</b>	<b>5</b>

## 1 General Information

### 1.1 Client Information

Name: Vitls, Inc.  
Address: 2450 Holcombe Blvd., Ste. X  
City, State, Zip, Country: Houston, TX 77021, USA

### 1.1 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA  
Type of lab: Testing Laboratory  
Certificate Number: 3212.01

### 1.2 General Information of EUT

Type of Product: Vital Signs Monitoring Device  
Model Name: Tego VSS Sensor  
Model Number: VT-F-010  
Serial Number: Not labeled

FCC ID: 2ASYD-VT-F-010

Frequency Range: 2402 – 2480 MHz  
Data Modes: Bluetooth Low Energy  
Antenna: Internal Surface-Mount Antenna

Rated Voltage: 3.7 Vdc Battery  
Test Voltage: 3.7 Vdc Battery

Sample Received Date: 15 January 2019  
Dates of testing: 09 April 2019

### 1.3 Operating Modes and Conditions

Continuous traffic was generated using test mode software. The device was programmed to transmit at maximum power on low, middle, and high channels. For this evaluation, the EUT's highest measured conducted average output power was used.

## 2 SAR Exclusion Calculations

### 447498 D01 General RF Exposure Guidance v06

#### SAR test exclusion calculations

#### Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units
Max Power:	-2.7	dBm
Min separation distance:	5	mm
Frequency, f:	2480	MHz

Value reference Number	Values used for Calculation		Reference number definition
v1	1	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	1.575		[ $\sqrt{f(\text{GHz})}$ ]

- a) 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:  

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

1g Exclusion Threshold:	9.5	mW	$\leq 3 \cdot v2 / v3$
10g Exclusion Threshold:	23.8	mW	$\leq 7.5 \cdot v2 / v3$

Conclusions:	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

### 3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	22 April 2019