

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.

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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
v2	5	mm
v3	1.575	[f (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:

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

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