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# RF Exposure Report

Project Number: 4347362 Proposal Number: 5533

Report Number: 4347362EMC03 Revision Level: 0

Client: Enovate Medical, LLC

**Equipment Under Test: Bluetooth Low Energy Circuit** 

Model Number: P0000457

FCC ID: 2AQ9D-P0000457

Applicable Standards: 47 CFR §§ 2.1093

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 26 October 2020

Result: Exempt from SAR testing

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Reviewed by:

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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: Enovate Medical, LLC

Address: 1152 Park Avenue

City, State, Zip, Country: Murfreesboro, TN 37129, USA

### 1.2 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

#### 1.3 General Information of EUT

Type of Product (PMN): Bluetooth Low Energy Circuit

Model Number (HVIN): P0000457

Firmware Version (FVIN): SoftDevice 5.0.0 Host Marketing Name (HMN): Medical Cart

Serial Number: 165

FCC ID: 2AQ9D-P0000457

Frequency Range: 2402-2480MHz

Data Modes: Bluetooth Low Energy
Antenna: External Antenna (0.7dB)

Rated Voltage: 13.5Vdc Test Voltage: 13.5Vdc

Sample Received Date: 24 July 2018

Dates of testing: 06-11 September 2018

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## 2 SAR Exclusion Calculations

The highest output power in conjunction with the upper frequency boundary has been used to demonstrate compliance.

The distance from the BLE antenna to the closest exterior point of the Medical Cart (host) has been used as the minimum separation distance to demonstrate compliance.

This exterior point of the host is considered an Extremity application.

#### 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:	3.43	dBm
Min separation distance:	20	mm
Frequency, f:	2480	MHz

Value reference Number			Reference number definition
v1	2	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	20	mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	1.575		[√f(GHz)]

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

1g Exclusion Threshold:	38.1	mW	<== 3 * v2 / v3
10g Exlusion Threshold:	95.3	mW	<== 7.5 * v2 / v3

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



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# 4 Revision History

Revision Level	Description of changes	Revision Date
Draft		26 October 2020
0	Initial Release	26 October 2020