

Bigfoot Biomedical, Inc. **RF Exposure Exhibit**

SCOPE OF WORK

EMC TESTING – Bigfoot Unity System, Model: RCAP

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**RF Exposure Exhibit
(Portable devices)**

Report Number: 104424286MPK-004A

Project Number: G104424286

Report Issue Date: November 20, 2020

Product Designation: Bigfoot Unity System

Model Tested: RCAP

FCC ID: 2AVAYUR001

to

47CFR 2.1093

for

Bigfoot Biomedical, Inc.

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Report No. 104424286MPK-004A	
Equipment Under Test:	Bigfoot Unity System
Trade Name:	Bigfoot Biomedical, Inc.
Model(s) Tested:	RCAP
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Applicable Regulation:	47CFR 2.1093

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1.0 RF Exposure Summary

Test	Reference FCC	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06, at frequency 2480 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 9.525 mW.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

3.2 EIRP calculations

The Bigfoot Unity System consists of Bluetooth Low Energy radio.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	-2.52	5.3	Conducted power measurements were taken from Report # 104424286MPK-004

¹As declared by the manufacturer.

3.4 RF Exposure Calculation for Bigfoot Unity System

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

According to FCC KDB 447498 D01 v06 at frequency 2480 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 9.525 mW.

Max Peak Conducted Power measured = -2.52 dBm or 0.560mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -2.52 dBm (RF Conducted Power) + 5.3 dBi (Antenna Gain) = 2.78dBm or 1.897 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G104424286	AS	KV	November 20, 2020	Original document