

Bone Health Technologies Inc. RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING – Vibration Pack, Models: MSP-09-2007

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**RF Exposure Exhibit
(Portable devices)**

Report Number: 106028948MPK-002

Project Number: G106028948

Report Issue Date: December 30, 2024

Product Designation: Vibration Pack

Model Tested: MSP-09-2007

to

47CFR 2.1093

FCC KDB 447498 D01 v06

RSS-102 Issue 6

for

Bone Health Technologies Inc.

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Report No. 106028948MPK-002	
Equipment Under Test:	Vibration Pack
Model(s) Tested:	MSP-09-2007
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Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 6

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1.0 RF Exposure Summary

Test	Reference FCC	Reference Industry Canada	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093 FCC KDB 447498 D01 v06	RSS-102 Issue 6	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06, at frequency 2450 MHz and separation distance of ≤ 5 mm the equation and threshold in section 4.3.1 must be applied to determine the SAR exclusion.

The SAR exclusion threshold is determined by the following formula (KDB 447498 D01 Section 4.3.1(a))

$$\left[\frac{\text{Max. tune up Power (mW)}}{\text{Min. Test Separation Distance(mm)}} \right] * \sqrt{F(\text{GHz})} \leq 3$$

2.2 Industry Canada Limits

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 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 Vibration Pack consists of Bluetooth Low Energy.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	0.46	+7.29	Conducted power measurements were taken from Report #106028948MPK-001.

¹ Antenna gain was provided by Bone Health Technologies, Inc. Intertek takes no responsibility for the accuracy of the antenna gain.

3.4 RF Exposure Calculation

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v07

Max Peak Power measured = 0.46 dBm or 1.1117 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 0.46 dBm (RF Conducted Power) + 7.29dBi (Antenna Gain) = 7.75 dBm or 5.956 mW.

According to KDB 447498 D01 Section 4.3.1 the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula (KDB 447498 D01 Section 4.3.1(a))

$$\left[\frac{\text{Max. tune up Power (mW)}}{\text{Min. Test Separation Distance (mm)}} \right] * \sqrt{F(\text{GHz})} \leq 3$$

$$[5.956\text{mW}/5\text{mm}] * [\sqrt{2.45\text{GHz}}] = 1.864$$

Which is less than 3.

3.4.2 RF Exposure calculation for RSS-102 Issue 6

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 15 mm SAR Exemption limit is ≤ 15 mW.

Max Peak Radiated Power measured = 0.46 dBm or 1.1117 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 0.46 dBm (RF Conducted Power) + 7.29 dBi (Antenna Gain) = 7.75 dBm or 5.956 mW.

Evaluation Results: The EUT meet the SAR exemption since the EIRP power is less than 15 mW at a separation distance of 15 mm. The separation distance of the radio's antenna structure to the human body is more than 15 mm.

Note: Antenna gains below 0 are considered as 0dBi.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/G106028948	KT	ML	December 30, 2024	Original document