

STAT Health Informatics, Inc. RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING –Earpiece, Models: E10824

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**RF Exposure Exhibit
(Portable devices)**

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Project Number: G105875905

Report Issue Date: August 12, 2024

Report Revision Date: August 28, 2024

Product Designation: Earpiece

Model Tested: E10824

to

**FCC Part 2.1093
FCC KDB 447498 D01 v06**

for

STAT Health Informatics, Inc.

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Report No. 105875905DAL-002	
Equipment Under Test:	Earpiece
Model(s) Tested:	E10824
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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 FCC KDB 447498 D01 v06	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))

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

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 Earpiece consists of Bluetooth Low Energy radio.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	-0.03	-17.3	Conducted power measurements were taken from FCC Test Report 105875905DAL-001

3.4 RF Exposure Calculation

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

Max Peak Conducted Power measured = -0.03 dBm or 0.993 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -0.03 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -0.03 dBm or 0.993 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))

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

$$\left[\frac{1.0 \text{ (mW)}}{5 \text{ (mm)}} \right] * \sqrt{2.45} = 0.31$$

Which is less than 3

Results: The Measurement result comply with the FCC limit per 47 CFR 2.1093 for the RF Exposure and SAR Exclusion per KDB 447498 D01 v06 so the SAR evaluation is not required for this device.

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

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/G105875905	KP	ML	August 12, 2024	Original document
1.1/G105875905	KP	ML	August 28, 2024	FCC KDB 447498 D01 Version changed to V06 The equation from the FCC KDB 447498 D01 Section 4.3.1(a) applied to determine the SAR test exclusion.