

Senstream, Inc.

RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING – Researcher Ring, Models: AT01

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**RF Exposure Exhibit
(Portable devices)**

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Project Number: G105113177

Report Issue Date: November 02, 2022

Product Designation: Researcher Ring

Model Tested: AT01

FCC ID: 2A754-AT01

IC: 29615-AT01

to

47CFR 2.1093

RSS-102 Issue 5

for

Senstream, Inc.

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Report No. 105113177MPK-008	
Equipment Under Test:	Researcher Ring
Model(s) Tested:	AT01
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Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5

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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	RSS-102 Issue 5	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v07 Appendix B, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 3 mW.

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 Researcher Ring consists of Bluetooth Low Energy.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	1.06	0.5	Conducted power measurements were taken from Report #105113177MPK-001.

¹As declared by the manufacturer.

3.4 RF Exposure Calculation

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v07

According to FCC KDB 447498 D01 v07 Appendix B, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 3 mW.

Max Peak Conducted Power measured = 1.06 dBm or 1.267 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 1.06 dBm (RF Conducted Power) + 0.5dBi (Antenna Gain) = 1.56 dBm or 1.432 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.

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

3.4.2 RF Exposure calculation for RSS-102 Issue 5

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

Max Peak Conducted Power measured = 1.06 dBm or 1.267 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is 1.06 dBm (RF Conducted Power) + 0.5 dBi (Antenna Gain) = 1.56 dBm or 1.432 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.

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

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G105113177	GGR	ML	November 02, 2022	Original document