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MPE REPORT

Manufacturer: Life Sensing Instruments Inc.
2102 Cambridge Beltway Drive, Suite A1
Charlotte, North Carolina 28273 USA

Applicant: Same as Above

Product Name: Nexus Telemetry Receiver

Product Description: The Nexus Receiver is a medical telemetry receiver designed to operate in healthcare environments. It receives data in the WMTS (Wireless Medical Telemetry Service) band and transmits data via the ISM band (910–920 MHz) for downstream processing.

Model: Nexus

FCC ID: OF8-NEX1

Testing Commenced: 2025-09-09

Testing Ended: 2025-12-15

Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- KDB447498
- FCC 1.1310



Order No(s): F2X35437C

Applicant: Life Sensing Instruments Inc.
Model: Nexus

Evaluation Conducted by:

Erik Tobin, EMC Engineer

Report Reviewed by:

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	➤ <u>FCC</u>



1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio.

Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to:

- KDB558074
- FCC 15.247

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2X35437C-03E	First Issue	2025-12-15	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498 FCC 1.1310	Complies

Modifications Made to the Equipment
None



3 **ENGINEERING STATEMENT**

This report has been prepared on behalf of Life Sensing Instruments Inc. to provide documentation for the calculations described herein, based on the measurements taken in supporting Test Reports. This equipment has been tested, and calculations were found to comply with KDB447498 and FCC 1.1310. The test results found in this test report relate only to the item(s) tested.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: Nexus Telemetry Receiver
Model(s): Nexus
Serial No.: 1205
Software Versions: Rev 46 and Rev 25
FCC ID: OF8-NEX1

4.2 Trade Name:

Life Sensing Instruments Inc.

4.3 Power Supply:

SL Power model ME30A1203F01

4.4 Applicable Rules:

- KDB447498
- FCC 1.1310

4.5 Antenna:

PIFA (External), 1.8dBi Gain

4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Laptop	Lenovo	None Specified	None Specified
Accessory Software Version:		TeraTerm V4.105	

**5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN****5.1 Requirements: Distance used is 20cm**

FCC	
Limit:	1mW/cm ²
Formula used for result:	$\frac{E.I.R.P.}{4 \pi R^2}$
Results:	E.I.R.P. = 7.160mW 7.160mW at the 920 MHz High Channel (highest) $\frac{7.160mW}{4 \pi R^2} = \frac{7.160mW}{5026.55} = 0.0014mW/cm^2$