



# Test Report - RF Exposure Evaluation Report for SAR Exclusion

Prepared For: TIDI Products, LLC.

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature

(YYYY-MM-DD): 2021-08-16

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Timco Engineering, Inc., an IIA Company  
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## Table of Contents

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1.	CUSTOMER INFORMATION.....	3
2.	LOCATION OF TESTING .....	3
2.1	TEST LABORATORY .....	3
2.2	TESTING WAS PERFORMED, REVIEWED BY .....	4
3.	TEST SAMPLE(S) (EUT/DUT) .....	5
3.1	DESCRIPTION OF THE EUT.....	5
4.	SAR EXCLUSION CALCULATION: .....	6
5.	HISTORY OF TEST REPORT CHANGES .....	7



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## 1. Customer Information

Applicant: TIDI Products, LLC.  
Address: 570 Enterprise Drive,  
Neenah, Wisconsin, 54956, US

## 2. Location of Testing

### 2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01



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2.2 Testing was performed, reviewed by

Dates of Testing: March 25, 2021 – May 11, 2021

Signature:

*Terri Allen*

Name & Title: Terri Allen, Technical Assistant

Date of Signature

(YYYY-MM-DD): 2021-08-16

Signature:

*Tim D. Royer*

Sr. EMC Engineer  
EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature

(YYYY-MM-DD): 2021-08-16



### 3. Test Sample(s) (EUT/DUT)

The test sample was received: March 25, 2021

#### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

#### Identification

FCC ID:	2AZB4-8309WL
Brief Description	Chair Sensor (SKU 8309WL)
Type of Modular	N/A
Model(s) #	8309WL
Trade name	N/A
Firmware version	N/A
Software version	N/A
Serial Number	N/A

#### Technical Characteristics

Technology	Low Power Device
Frequency Range	2400-2483.5
RF O/P Power (Max.)	2.84 dBm
Modulation	GFSK
Bandwidth & Emission Class	MHz
Number of Channels	3
Duty Cycle	14 %
Antenna Type	Integrated Trace antenna
Antenna Gain (for each ant.)	0 dBi
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	Battery

#### Antenna Characteristics

Frequency Range	Mode / BW	Ant Gain 1	Ant Gain 2
2400 – 2483.5 MHz	N/A	0 dBi	N/A



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#### 4. SAR EXCLUSION CALCULATION:

#### **SAR EXCLUSION CALCULATION:**

##### **SAR**

Frequency Band	Evaluation Distance (cm)	Max Power + Tolerance (dBm)	Antenna Gain (dBi)	Duty Cycle (%)	EIRP (W)	Power Density	Limit for Uncontrolled Exposure	Limit for Controlled Exposure	Distance Required to meet Uncontrolled Exposure Limit (cm)
2400-2483.5 MHz	20	2.84	0.00	100%	0.00	0 mW/cm <sup>2</sup>	1 mW/cm <sup>2</sup>	5 mW/cm <sup>2</sup>	20.00

**Conclusion: SAR testing is not required.**



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## 5. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_1403-21_RF Exp SAR Exclusion Rpt_1	1	Initial release	Aug. 05, 2021
TR_1403-21_RF Exp SAR Exclusion Rpt_2	2	Updated page 5 and 6 data	Aug. 16, 2021



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END OF TEST REPORT

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