



# Test Report - RF Exposure Evaluation Report for SAR Exclusion

Applicant: Uniden America Corporation

Signature:

A handwritten signature in black ink, appearing to read 'Tim Royer', written over a horizontal line.

Sr. EMC Engineer  
EMC-003838-NE



Name & Title:

Tim Royer, EMC Engineer

Date of Signature

6/5/2025

Signature:

A handwritten signature in black ink, appearing to read 'Kristoffer Costa', written over a horizontal line.

Name & Title:

Kristoffer Costa, EMC Technician

Date of Signature

6/5/2025

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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## 1. Applicant Information

Applicant: Uniden America Corporation  
Address: 301 International Pkwy  
Suite 460  
Flower Mound TX 75022 United States

## 2. Location of Testing

### 2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86<sup>th</sup> Drive, Suite 400, Alachua, Florida 32615.

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

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

The test sample was received: 5/28/2025

Dates of Testing: 6/2/2025 – 6/4/2025

### 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	
Brief Description	SOFTWARE DEFINED SCANNER with BUILT-IN GPS and BLUETOOTH® CONNECTIVITY
FCC ID	AMWUB391
Module FCC ID	SH6MDBT53V
Model(s) #	SDS150
Firmware version	N/A
Software version	1.00.17
Serial Number	N/A

Technical Characteristics	
Frequency Range	2400 MHz- 2483.5 MHz
RF O/P Power (Max.)	81.32 dBuV/ -13.91 dBm/ 0.0000406443 W
Modulation	FM
Bandwidth & Emission Class	N/A
Number of Channels	N/A
Duty Cycle	100%
Antenna Connector	SMA
Voltage Rating (AC or Batt.)	3.6VDC

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	0 dBi

- Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

**SAR EXCLUSION CALCULATION:**

Section 4.3.1 General SAR test exclusion guidance

Equation:

For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR,<sup>30</sup> where

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as *numeric thresholds* in step b) below

RSS 102 Issue 6 Section 6.3 Exemption Limits for Routine Evaluation

Equation:

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Conclusion: SAR testing is not required

**MPE**

Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value	Limit for 1-g SAR	Limit for 10-g SAR (Extremities)	SAR Exclusion
2400-2483.5 MHz	5	-13.91	0.04	0.01	3.0	7.5	SAR EXEMPT

#### 4. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_21242-25_RF Exp SAR Exclusion_	1	Initial release	6/5/2025
	2	Changes in 3.1	7/8/2025



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END OF TEST REPORT

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