



## Test Report - FCC Part 1.1310/ MPE Applicant: Uniden America Corporation

Signature:

Handwritten signature of Tim Royer in black ink.

Sr. EMC Engineer  
EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature 2/18/2025

Signature:

Handwritten signature of Kristoffer Costa in black ink.

Name & Title: Kristoffer Costa, EMC Technician

Date of Signature 2/18/2025

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 Pkway  
Suite 360  
Flower Mound, Texas, 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: 1/29/2025

Dates of Testing: 2/10/2025 – 2/12/2025

### 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	
FCC ID:	AMWUT447
Brief Description	40-CH AM/FM CB Radio
Model(s) #	PC68LTXFM
Firmware version	N/A
Software version	1.04
Serial Number	N/A

Technical Characteristics	
Frequency Range	26.965 MHz- 27.405 MHz
RF O/P Power (Max.)	FM: 35.61 dBm/ 3.64 W AM: 35.58 dBm/ 3.61 W
Modulation	AM/FM
Bandwidth & Emission Class	7K54F3E
Number of Channels	40
Duty Cycle	100%
Antenna Connector	UHF
Voltage Rating (AC or Batt.)	13.8 VDC

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	3 dBi

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

#### 4. Test methods & Applicable Regulatory Limits

##### 4.1 Test methods/Standards/Guidance:

The following guidance FCC KDB 447498 D01 General RF Exposure Guidance v06 was used for RF exposure evaluation as per FCC Part 1.1310 and FCC Part 2.1091 and part 2.1093. Full test results are available in this report.

##### 4.1.1 FCC Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
<b>A Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>B Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

## 4.2 Equations

### POWER DENSITY

$$E(V/m) = \text{SQRT} ( 30 * P * G ) / d$$

$$Pd(W/m^2) = E^2 / 377$$

$$S = \text{EIRP} / ( 4 * \text{Pi} * D^2v )$$

Where:

S = Power density, in mW/cm<sup>2</sup>

EIRP = Equivalent Isotropic Radiated Power, in mW

D = Separation distance in cm

Power density is converted from units of mW/cm<sup>2</sup> to units of W/m<sup>2</sup> by multiplying by 10.

### DISTANCE

$$D = \text{SQRT} ( \text{EIRP} / ( 4 * \text{Pi} * S ) )$$

Where:

D = Separation distance in cm

EIRP = Equivalent Isotropic Radiated Power, in mW

S = Power density in mW/cm<sup>2</sup>

**SOURCE-BASED DUTY CYCLE** (When applicable (for example, multi-slot mobile phone applications) A duty cycle factor may be applied.)

$$\text{Source-based time-average EIRP} = ( \text{DC} / 100 ) * \text{EIRP}$$

Where:

DC = Duty Cycle in % as applicable.

EIRP = Equivalent Isotropic radiated Power, in mW

## 5. RF Exposure Results

<b>MPE</b>									
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)
26.965-27.405 MHz	20	38.80	3.00	100%	7.5858	1.509 mW/cm <sup>2</sup>	0.24 mW/cm <sup>2</sup>	1.24 mW/cm <sup>2</sup>	<b>50.15</b>

RESULT: Pass at DISTANCE 50.15 cm

## 6. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_18763-25_FCC 1.1310/ MPE_	1	Initial release	2/18/2025
	2	Updated Page 7	2/24/2025
	3	Updated Page 7	2/25/2025
	4	Updated Page 7	2/26/2025



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END OF TEST REPORT

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