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RF Exposure Evaluation Report

APPLICANT	UNIDEN AMERICA CORPORATION
	3001 GATEWAY DRIVE SUITE 130 IRVING TEXAS 75063 USA
FCC ID	AMWUT417
IC	513C-UT417
MODEL NUMBER	CMX760, CMX660
PRODUCT DESCRIPTION	CB TRANSCEIVER
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Cory Leverett

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669



Authorized Signatory Name:

Cory Leverett

Engineering Project Manager

Date: 03/06/2017

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUT417
IC: 513C-UT417
Report: 331AUT17RF EXP MPE RPT_Rev2

RF Exposure Requirements

General information

Device type: CB TRANSCEIVER

Antenna

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any	Whip	3 dBi

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

**Minimum Separation Distance for Mobile or Fixed Devices
General Population/Uncontrolled Exposure**

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

Max Power	4 W	<i>equals</i>	Max Power	4000	mW
Duty Cycle	100 %	<i>equals</i>	Duty Factor	1	numeric
Antenna Gain	3 dBi	<i>equals</i>	Gain numeric	1.995262	numeric
Coax Loss	0 dB		Gain - Coax Los	1.995262	numeric
Power Density	0.2 mW/cm ²				
Frequency	27 MHz				

Enter power Density from the chart to the right

Rule Part 1.1310, Table 1 (B)

Frequency rang	Power der	Enter this value
MHz	mW/cm ²	mW/cm ²
0.3-1.34	100	100
1.34-30	180/f ²	0.2
30-300	0.2	0.2
300-1,500	f/1500	0.0
1,500-100,000	1	1

f = frequency in MHz

Minimum Separation Distance	56 cm	0.56 m
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Minimum Separation in Inches 22.16891 Inches