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## RF Exposure Evaluation Report

<b>APPLICANT</b>	COBRA ELECTRONICS CORPORATION
	6500 WEST CORTLAND STREET CHICAGO IL 60707 USA
<b>FCC ID</b>	BBO75WXSTA
<b>MODEL NUMBER</b>	75WXST
<b>PRODUCT DESCRIPTION</b>	COMPACT REMOTE MOUNT CB RADIO
<b>STANDARD APPLIED</b>	CFR 47 Part 2.1091
<b>PREPARED BY</b>	Tim Royer

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:**

Tim Royer

Engineering Project Manager

**Date: 4/11/2018**

Applicant: COBRA ELECTRONICS CORPORATION  
FCC ID: BBO75WXSTA  
Report: 444UT18RF EXP MPE RPT.DOCX

## RF Exposure Requirements

### General information

Device type: COMPACT REMOTE MOUNT CB RADIO

### Antenna

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Antenna p/n	Type	Max. Gain (dBi)
Any	omni	0

### 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:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.1310, 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	<b>3.99</b> W	<i>equals</i>	Max Power	3990 mW
Duty Cycle	<b>100</b> %	<i>equals</i>	Duty Factor	1 numeric
Antenna Gain	<b>0</b> dBi	<i>equals</i>	Gain numeric	1 numeric
Coax Loss	<b>0</b> dB		Gain - Coax Loss	1 numeric
Power Density	<b>0.2</b> mW/cm <sup>2</sup>			
Frequency	<b>26.965</b> MHz			

**Enter power Density from the chart to the right**

**Rule Part 1.1310, Table 1 (B)**

Frequency range MHz	Power den mW/cm <sup>2</sup>	Enter this value mW/cm <sup>2</sup>
0.3-1.34	100	<b>100</b>
1.34-30	180/f <sup>2</sup>	<b>0.2</b>
30-300	0.2	<b>0.2</b>
300-1,500	f/1500	<b>0.0</b>
1,500-100,000	1	<b>1</b>

f = frequency in MHz

Minimum Separation Distance      39.84433 cm

<b>Minimum Separation Distance</b>	<b>40 cm</b>	<b>0.40 m</b>
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Minimum Separation in Inches      15.67476 Inches



Applicant: «ApplicantName»  
FCC ID: «GranteeCode»«EquipmentProductCode»  
Report: «TimcoDir»\RF Exposure Rpt