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RF Exposure Evaluation Report

APPLICANT	COBRA ELECTRONICS CORPORATION
	6500 WEST CORTLAND STREET CHICAGO IL 60707
FCC ID	BBO2016D
MODEL NUMBER	iRAD
PRODUCT DESCRIPTION	RADAR DETECTOR W/ BT MODULE
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.

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO2016D
Report: V:\C\COBRA\66BUT16\66BUT16RF EXP MPE RPT.DOCX

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: 8/5/2016

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO2016D
Report: V:\C\COBRA\66BUT16\66BUT16RF EXP MPE RPT.DOCX

RF Exposure Requirements

General information

Device type: RADAR DETECTOR WITH BT MODULE

Antenna

The EUT uses a integrated antenna

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.

KDB 447498 D01 General RF Exposure Guidance v05r0:

4.3.1. Standalone SAR test exclusion considerations

30 MHz to 6 GHz at separation distance less than or equal to 50 m:

SAR Test Exclusion Calculator for Portable Devices	
Insert values in yellow highlighted boxes to determine SAR Exclusion	
Max Power	1.7 mW
Min Separation	5 mm
Frequency	2.48 GHz
When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.	
Answer	0.5 Must be less than or equal to 3.0 for SAR Exclusion

KDB 388624 D02 Permit But Ask List v15, Item II. A. 5.
PBA is required if:
General Population: The Answer is equal to or greater than 24 (8x threshold)
Controlled Use: The Answer is equal to or greater than 60 (20x threshold)
and, when published RF exposure KDB procedures are not established for SAR testing or

Please also note the following: [FCC KDB quote] These test exclusion conditions are based on source-based