



849 NW STATE ROAD 45
NEWBERRY, FL 32669 USA
PH: 888.472.2424 OR
352.472.5500
FAX: 352.472.2030
EMAIL: INFO@TIMCOENGR.COM
[HTTP://WWW.TIMCOENGR.COM](http://WWW.TIMCOENGR.COM)

RF Exposure Evaluation Report

APPLICANT	BW BROADCAST LTD.
	UNIT 27, IO CENTRE CROYDON ROAD CROYDON CRO 4WQD UNITED KINGDOM
FCC ID	2ABPH-TX50V2
IC	11730A-TX5-V2
MODEL NUMBER	T50V2
PRODUCT DESCRIPTION	50W FM BROADCAST TX
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: BW BROADCAST LTD.
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Report: V:\BW BROADCAST\1156AUT16\1156AUT16RF EXP MPE RPT160616.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: 10/17/2016

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RF Exposure Requirements

General information

Device type: 50W FM BROADCAST TX

Devices that operate under Part 73 of this chapter are subject to RF exposure evaluation prior to equipment authorization or use.

Antenna

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

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

MPE Calculation:

The minimum separation distance is calculated as follows:

$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$	Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$
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The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

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Minimum Separation Distance for Mobile or Fixed Devices Controlled Exposure						
Insert values in yellow highlighted boxes to determine Minimum Separation Distance						
Max Power	50	W	<i>equals</i>	Max Power	50000	mW
Duty Cycle	100	%	<i>equals</i>	Duty Factor	1	numeric
Antenna Gain	0	dBi	<i>equals</i>	Gain numeric	1	numeric
Coax Loss	0	dB		Gain - Coax Loss	1	numeric
Power Density	1	mW/cm ²				
Enter power Density from the chart to the right				Rule Part 1.1310, Table 1 (A)		
Frequency	108	MHz		Freq range	Power density	Enter this value
				MHz	mW/cm ²	mW/cm ²
				0.3 - 3	100	100
				3 - 30	900/f ²	0.1
				30-300	1	1
				300-1,500	f/300	0.4
				1,500-100,000	5	5
				f = frequency in MHz		
Minimum Separation Distance				63 cm		0.63 m
Minimum Separation in Inches		24.81501 Inches				