



RF Exposure Evaluation Report

APPLICANT	ZAXCOM, INC.
ADDRESS	230 WEST PARKWAY, UNIT 9 POMPTON PLAINS N.J. 07444 USA
FCC ID	PR6BFI
IC	12755A-BFI
MODEL NUMBER	DEVAIFB
PRODUCT DESCRIPTION	ISB TRANSMITTER
DATE SAMPLE RECEIVED	06/18/2018
FINAL TEST DATE	06/22/2018
PREPARED BY	Franklin Rose
TEST RESULTS	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Report Version	Description	Issue Date
885UT18 MPE_TestReport_	Rev1	Initial Issue	06/22/2018

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



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GENERAL REMARKS

Summary

The device under test does:

- Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- Not fulfill the general approval requirements as identified in this test report

Attestations

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

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669
Designation #: US1070

Prepared by:



Name and Title	Franklin Rose, Project Manager / EMC Testing Technician
Date	06/22/2018

Applicant: Zaxcom, INC.

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GENERAL INFORMATION

EUT Description	ISB TRANSMITTER
FCC ID	PR6BFI
IC	12755A-BFI
Model Number	DEVAIFB
EUT Power Source	<input checked="" type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> DC Power (12.0 V)
	<input type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input checked="" type="checkbox"/> Portable
Antenna Connector	SMA
Test Conditions	The temperature was 26°C Relative humidity of 50%.
Modification to the EUT	No Modification to EUT.
Applicable Standards	FCC CFR 47 Part 2.1091
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070

ANTENNA INFORMATION

Manufacturer Provides Antenna	Type	Max Gain (dBi)
Yes	2.4 GHz Quarter Wave whip antenna	2.2

MPE CALCULATION

The minimum separation distance is calculated as follows:

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

1. **ISED General Uncontrolled Exposure Environment:** The limit for General Uncontrolled Exposure Environment is calculated as shown in RSS-102:

Variable	Value
Max Power	0.14 W
Duty Cycle (at full power)	100%
Max Antenna Gain	2.2 dBi
Coax Loss	0 (unspecified)
Power Density	0.04622 W/m ²
Minimum Separation Distance	20 cm

2. **FCC General Population/Uncontrolled Exposure:** The limit for General Uncontrolled Exposure is calculated as shown in FCC Part 1.1310:

Variable	Value
Max Power	0.14 W
Duty Cycle (at full power)	100%
Max Antenna Gain	2.2 dBi
Coax Loss	0 (unspecified)
Power Density	0.04622 mW/cm ²
Minimum Separation Distance	20 cm