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RF Exposure Evaluation Report

APPLICANT	AUDIO-TECHNICA CORPORATION
	2-46-1 Nishi-Naruse Machida Tokyo 194-8666 JAPAN
FCC ID	JFZT3202EE1
IC	1752B-T3202EE1
MODEL NUMBER	ATW-T3202EE1
PRODUCT DESCRIPTION	3000 SERIES HANDHELD TRANSMITTER
STANDARD APPLIED	CFR 47 Part 2.1091, RSS-102
PREPARED BY	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 ISED RSS-102 and meets the requirements.

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, Engineer

Date: **12/7/2017**

RF Exposure Requirements

General information

Device type: 3000 SERIES HANDHELD TRANSMITTER

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:

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

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.1310, Table 1 and ISED RSS-102.

KDB 447498 D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

100 MHz to 6 GHz at separation distance less than or equal to 50 mm

SAR Test Exclusion Calculator for Portable Devices			
Insert values in yellow highlighted boxes to determine SAR Exclusion			
Max Powe	30	mW	
Min Separa	5	mm	**When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.**
Frequency	0.59	GHz	
Answer	**4.6**	**Must be less than or equal to 7.5 for SAR Exclusion**	

KDB 388624 D02Permit 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 when SAR data is not provided to support compliance.

Please also note the following: *[FCC KDB quote]* These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface. *[End quote]*