

Declaration regarding RF Exposure

Federal Communication Commission
Equipment Authorization Division, Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

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TO WHOM IT MAY CONCERN

RF Exposure issue for any portable devices subject to 2.1093 routine evaluations regarding the following product:

<u>FCC ID Number</u>	<u>Title/Model</u>
OSDTG100B	TG 100B

<u>IC ID</u>	<u>Title/Model</u>
3628A-TG100B	TG 100B

SAR exemption:

This device has been excluded from SAR testing based on source-based time-averaged conducted output power and KDB 447498 D01 section 4.3.1 1).

This document serves as the RF exposure exhibit in the FCC Form 731 application in lieu of a SAR report.

Operational Description:

The TG 100B is a portable wireless Microphone System using FM modulation to transmit audio.

RF Exposure Conditions:

The device is intended for use in the portable exposure condition and the General Population / Uncontrolled RF exposure environment.

RF Output Power:

Tx frequency range: 174.025 – 203.975 MHz

Test separation distance: 5mm

Maximum Output Power including Tune-Up tolerance: 12.00 dBm+- 1dB (19.95 mW)

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0/7.5$ respectively

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison

$$\frac{19.95 \text{ mW}}{5 \text{ mm}} \sqrt{0.204} = 1.80 \leq 7.5 \text{ for } 10g \text{ extremity SAR}$$

The device is excluded from SAR testing.