
RF Exposure Evaluation

Project Number: 01078-10

Prepared for:

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By

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TYPE CERTIFICATION

LESTER ELECTRICAL, INC.
UNIVERSAL TRANSEIVER

The **Universal Transceiver Module** operates under Part 15 and is classified as a “Mobile Device” by the guidance given in 47 CFR 2.1091 and OET Bulletin 65, which states:

“Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer and transportable cellular telephones (“bag” phones), are considered to be mobile devices if they meet the 20 centimeter separation requirement.”

The **Universal Transceiver Module** meets this description including the requirement that it be used more than 20 centimeters from the user.

“...are subject to routine environmental evaluation for RF exposure use if they operate at frequencies of 1.5 GHz or below and their effective radiated power (ERP) is 1.5 watts or more,...”

The Universal Transceiver Module has a typical output power of 0 dBm or 1 mW. The peak, measured power in the fundamental was 90.0 dB (uV/m). Using the formula:

$$P = .3 V^2$$

The measured power is 0.30 mW in the fundamental. An earlier reading of the fundamental, made without a preamplifier measured a result of 92.9 dB (uV/m), which yields a result of 0.59 mW. This measurement is considered less accurate than the value reported in the test report. However, it is reported here as it give a worst case measurement for this purpose. However, both measurements are clearly well below the requirement. Therefore, a routine environmental evaluation for RF exposure is not required.