Summary of RF Exposure

This device is operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. This device is categorically excluded from routine environmental evaluation. This device operates in a portable configuration under 47 CFR 15.249 and is therefore excluded from SAR evaluation based upon 2.1093(c) and its low EIRP (< 1mW).

The test data shows a radiated field strength of 530 uV/m at 3 meters. Using empirical formula, this calculates to a maximum EIRP of -40 dBm. Taking into account the negative antenna gain of -22 dBi, the maximum conducted input power to the antenna is -18 dBm or slightly less than 25 uWatts.

For comparison purposes only, a competitors unit similar in construction to this unit was evaluated for SAR. Highest measured SAR value for that unit was 0.08W/kg averaged over 1 gram. The maximum conducted input power to the antenna of that unit was 0.8dBm. Thus the conducted input power to the antenna for Transoma's unit is some 17 dB lower than the competitive unit. Based on the above, it was not deemed necessary to conduct SAR tests on the unit.

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