



MPE EVALUATION REPORT

**FOR THE
MODEL 271201
MOBILE WIRELESS DUAL-BAND CELLULAR / PCS
AMPLIFIER**

800 MHz BAND, EXTERNAL ANTENNA, RF EXPOSURE

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PURPOSE

This report proves 800 MHz band compliance with FCC regulations for RF Exposure to the external antenna in mobile installations of the model 271201 amplifier (FCC ID: PWO271201SA, IC: 4726A-271201SA).

METHOD

Since calculations based upon FCC OET Bulletin 65 show the ERP to be greater than 1.5 watts, calculations alone are not sufficient. This report is based upon previous laboratory measurements of the antenna's radiated power density. Since the maximum power output of the model 271201 amplifier is less than the power output of the amplifier used in the previous measurements, the RF Exposure limits previously established are applicable to the model 271201 amplifier.

LABORATORY MEASUREMENTS

Laboratory measurements are reported in the accompanying Report No: FC08-062R issued by CKC Laboratories on July 2, 2008. The power densities reported therein are for the model 2B1401 amplifier (FCC ID: PWO2B1401SA, IC: 4726A-2B1401SA) connected to the coaxial line which is part of the mobile antenna that has a net gain of 1.12 dBi (including the cable loss).

APPLICABILITY OF MEASUREMENTS

The maximum power output of the 271201 amplifier was measured to be 2818 mW (as reported by TIMCO Engineering on page 12 of Report No. 886AXUT8TestReport.pdf). The maximum power output of the 2B1401 Amplifier was measured to be 2951 mW (as reported by CKC Laboratories on page 13 of Report No: FC08-062A which may be viewed on the FCC website for FCC ID: PWO2B1401SA). The MPE results of the previous CKC Laboratories report are therefore applicable to the model 271201 amplifier.

CONCLUSIONS

As summarized in the referenced CKC Laboratories report, "...this device complies with the Maximum Permissible Exposure (MPE) requirements set forth in 47 CFR §2.1091, §1.1310, and OET Bulletin 65, Edition 97-01 for General Population / Uncontrolled Exposure environment at a minimum distance of 10 cm through a ground plane from the vehicle mounted antenna (operator requirement), and for General Population / Uncontrolled Exposure environment at a minimum distance of 50 cm laterally from the vehicle mounted antenna (bystander requirement).