

SUPPLEMENTAL TEST REPORT INFORMATION REGARDING POWER OUTPUT TESTS

The following information is provided to describe the power output tests made for the XTREME-2000 DTV transmitter at power levels of 100 and 25 watts output power.

The following block diagram was used to conduct power output tests. Power output was recorded on an Agilent power meter model E4418 power meter with model E4412A power sensor. The 40 dB attenuator was calibrated at the fundamental power. The transmitter was energized normally and adjusted for the indicated power.

TEST EQUIPMENT CONFIGURATION

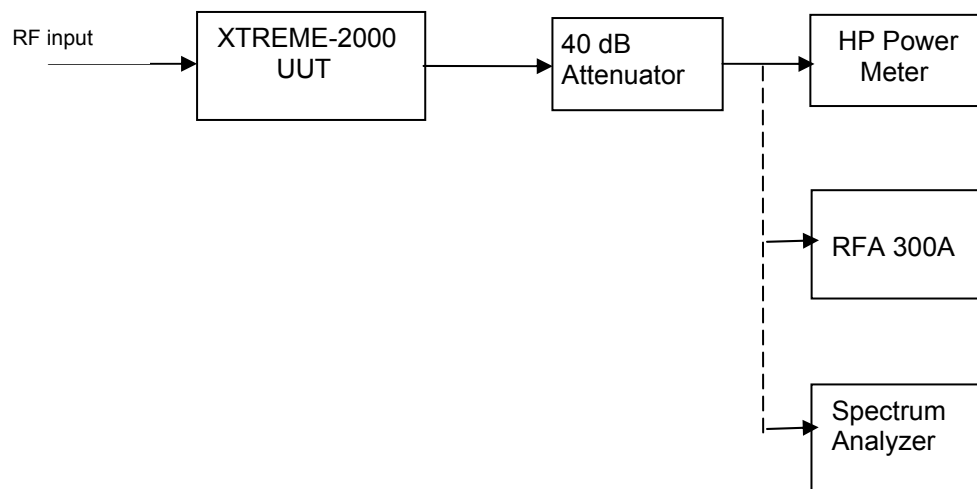


FIGURE 1

Dashed line indicates only one instrument connected at a time.

Photographs of the power meter were taken at the respective power levels of 105 watts and 23 watts and are displayed on the next page.



Power meter reading at 105 watts output power.

$$\begin{aligned} \text{Power output} &= 10.2 \text{ dBm} \\ &+ 40 \text{ dB (attenuator)} \\ &\underline{\hspace{1.5cm}} \\ &50.2 \text{ dBm} = 105 \text{ watts} \end{aligned}$$



Power meter reading at 23 watts output power.

$$\begin{aligned} \text{Power output} &= 3.67 \text{ dBm} \\ &+ 40 \text{ dB (attenuator)} \\ &\underline{\hspace{1.5cm}} \\ &43.67 \text{ dBm} = 23 \text{ watts} \end{aligned}$$