

1.) What was the audio power (voltage RMS) for the 15 KHz tone?

If I understand the question correctly, using the equation, $P=V^2/R$,

0.001 watts (0 dBm) = $V^2/600$ ohms

$$V^2 = 0.001 \times 600 = 0.6$$

$$V_{\text{rms}} = 0.775 \text{ V}_{\text{rms}}$$

2.) Verify that this device was modulated with the maximum audio level.

Correct. The device was modulated per the requirements of 2.1049 and output modulation was adjusted to maximum level using the control on the transmitter.