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ABSTRACT

An amplification device includes an amplification unit, an impedance unit and a log power detector. The amplification unit includes an input terminal for receiving a radio-frequency signal, an output terminal for outputting an amplified radio-frequency signal, and a detected terminal for outputting a detected signal related to the radio-frequency signal. The impedance unit is used to provide an impedance. The impedance unit includes an input terminal coupled to the detected terminal of the amplification unit for receiving the detected signal, and an output terminal for outputting a power signal. The log power detector is used to generate a power indication signal according to the power signal. The log power detector includes an input terminal coupled to the output terminal of the impedance unit, and an output terminal for outputting the power indication signal.

