

## Cover Letter

Dear FCC,

Product Creation Studio is the design agent acting on behalf of Qwizdom Inc. of Puyallup, WA. Qwizdom is developing a RF audience response system for use in educational, trade-show, entertainment and boardroom environments. The following exhibits pertain to the Q Pen product, which is used in conjunction with a wireless digitizing tablet for communicating cursor position to a PC. FCC ID of the Q Pen is SJB-QPEN.

The Q Pen uses a battery-powered oscillator circuit which derives its frequency from an LC tank circuit. The inductor (L) is a custom wound coil with a ferrite core. This coil creates a magnetic field which induces current in an array of antennas on the tablet. The fundamental oscillation frequency is approximately 150KHz. Pressing the pen tip or pushing buttons changes capacitance in the tank circuit which results in a measurable frequency shift. Expected range of operation is 130KHz – 170KHz.

This is the request for original certification for the Q Pen product as an intentional radiator subject to the requirements of 47 CFR 15.209. Thank you for consideration of this application.

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