

FCC EMF compliance for Piano, FCC ID:2AFT3-RP4901

KDB 447498 D04 Interim General RF Exposure Guidance v01

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

The maximum radiated field strength was 88.71 dB μ V/m at 3m which equates to -6.5 dBm E.I.R.P.

The maximum possible transmit power assuming all power from the Bluetooth chip is transmitted from the antenna is 0.22 mW, which is well below the 1mW limit stated above, so the device meets the exemption under all conditions.

Industry Canada EMF compliance for Piano, IC ID:20629-RP4901

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6.3 SAR exemption limits

Table 11 gives the power limits for exemption from routine SAR evaluation based on separation distance, and the maximum permitted power for distances ≤ 3 mm is 3mW at 2450 MHz.

As per the test report, the maximum radiated field strength was 88.71 dB μ V/m at 3m which equates to -6.5 dBm E.I.R.P. which is 0.22 mW.

This is well under the 3 mW exemption, so Piano complies with the EMF requirements at all separation distances.