



**Figure B** In this output-noise spectrum of the circuit in Figure A averaged for 27 hours, the resistor contributes  $13 \mu\text{V}/\sqrt{\text{Hz}}$ , with  $0.6 \mu\text{V}/\sqrt{\text{Hz}}$  coming from the  $0.5 \text{ fA}/\sqrt{\text{Hz}}$  of the LTC6241 working into the  $10\text{-G}\Omega$  source. The response is 3 dB down at 4.3 Hz, indicating a total input capacitance of 3.7 pF, including all parasitic elements.