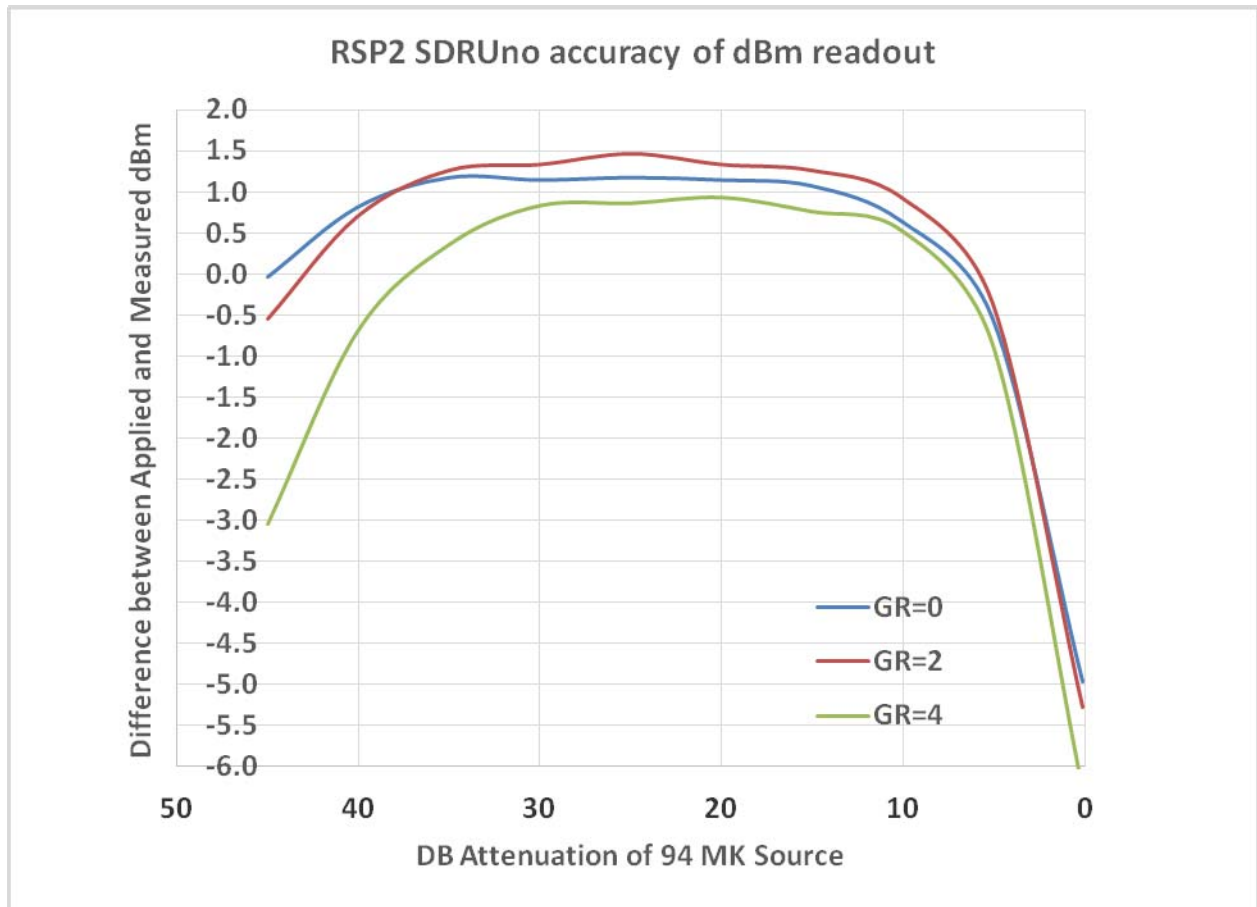


Testing the accuracy of the SDRUno power meter with the SDRPlay RSP2

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Using a 94 MK HP-461 noise source and a Kay step attenuator we evaluated the accuracy of the SDRUno power meter readout with the RSP2 tuned to 20.1 MHz. We set the bandwidth of the RSP2 to 11 kHz and calculated the attenuated power level injected into the RSP2 in dBm. We then compared the input signal level in dBm to the SDRUno readout in dBm. The results are plotted below. Three different settings (0, 2, and 4) were used for Gain Reduction (GR).



For low values of gain reduction (0 to 2) the SDRUno is quite accurate as a power meter between about 40 and 10 dB of attenuation which corresponds to a temperature range of 9kK to 9 MK. If the dBm reading could be extracted from SDRUno, converted to antenna temperature, and fed to SkyPipe it would make a reasonably well calibrated receiver for Jupiter reception.