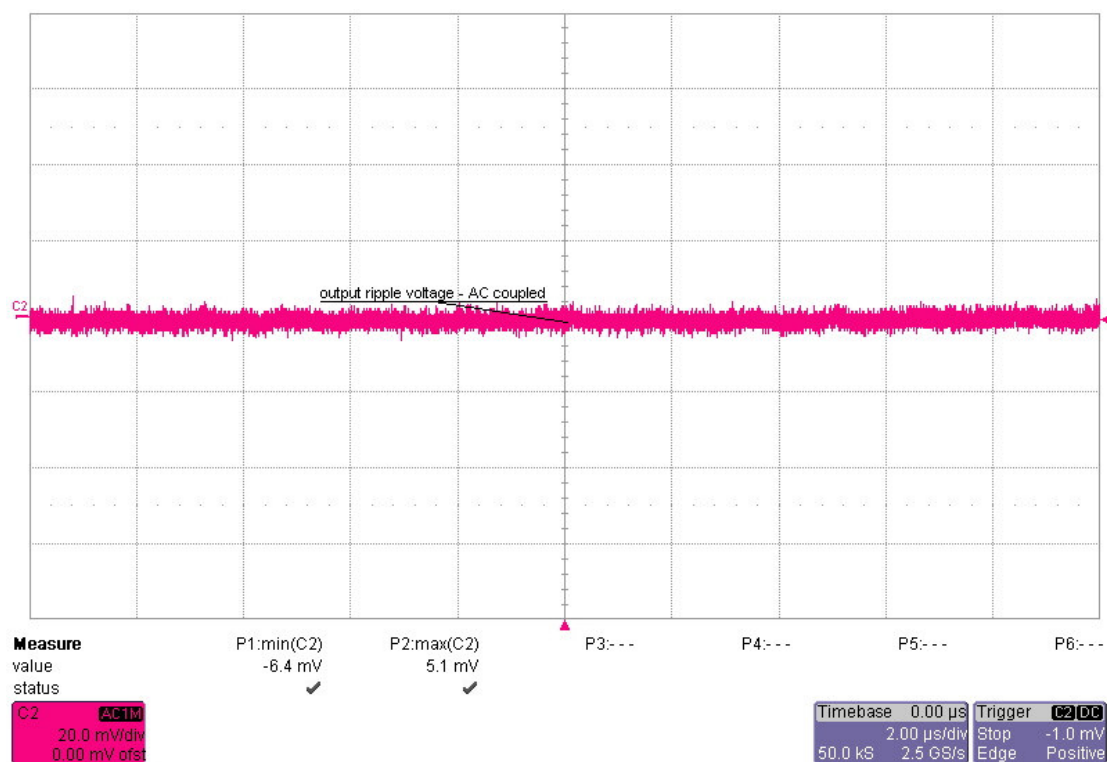


1 Output ripple voltage

The output ripple voltage at 6.0A load and 5.0V input voltage is shown below.

Channel C2: **output voltage**, 12mV peak-peak
20mV/div, 2 μ s/div, AC coupled

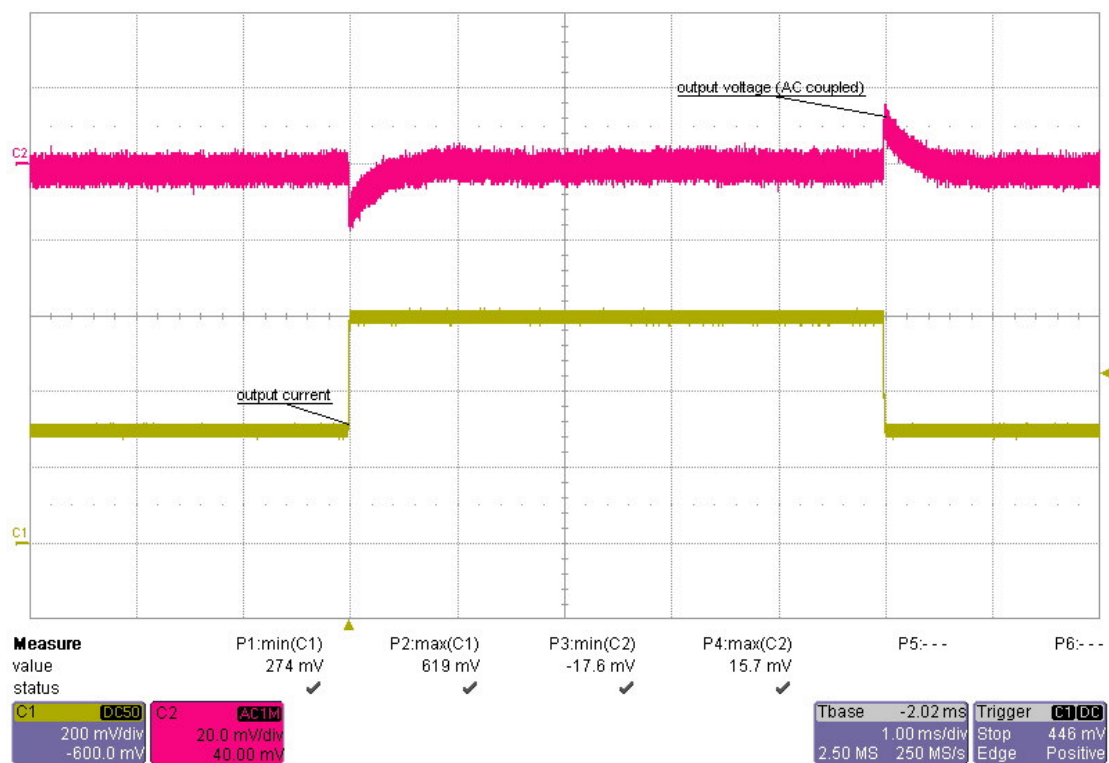


2 Transient response

The transient response at an input voltage of 5.0V is shown in below.

Channel C2: **output voltage**, -18mV undershoot, 16mV overshoot
20mV/div, 1ms/div, AC coupled

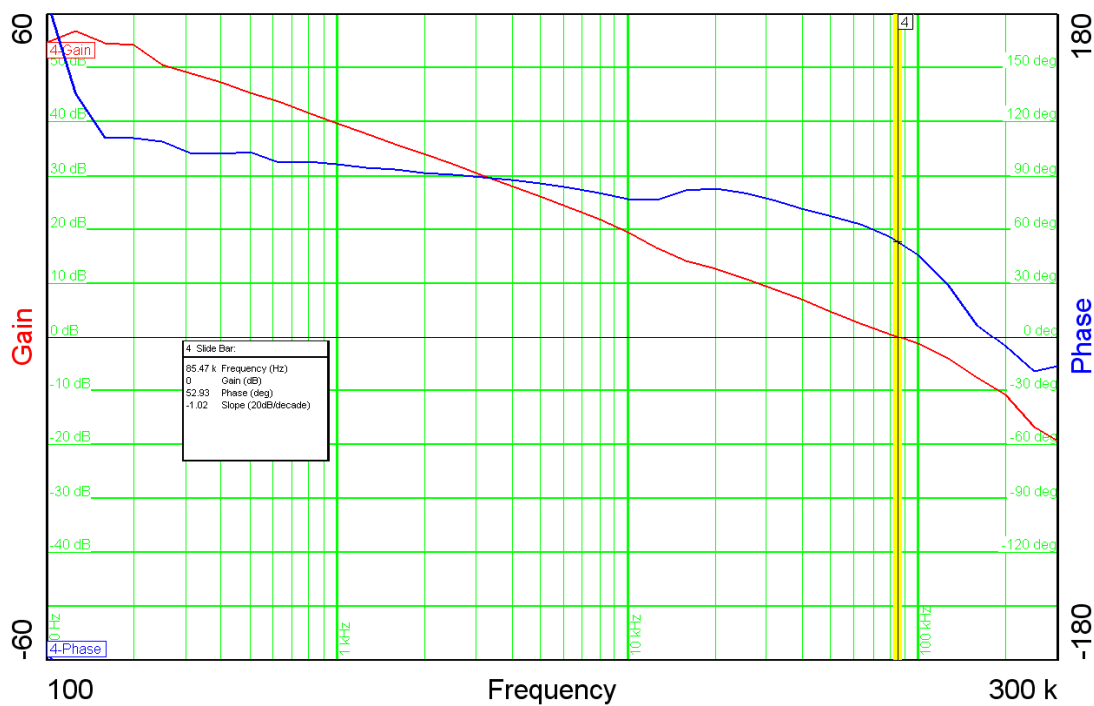
Channel C1: **load current**, load step 3.0A to 6.0A and vice versa
2A/div, 1ms/div



3 Frequency response

The picture below shows the loop response of the 3.3V output with 5.0V input and a 6.0A load.

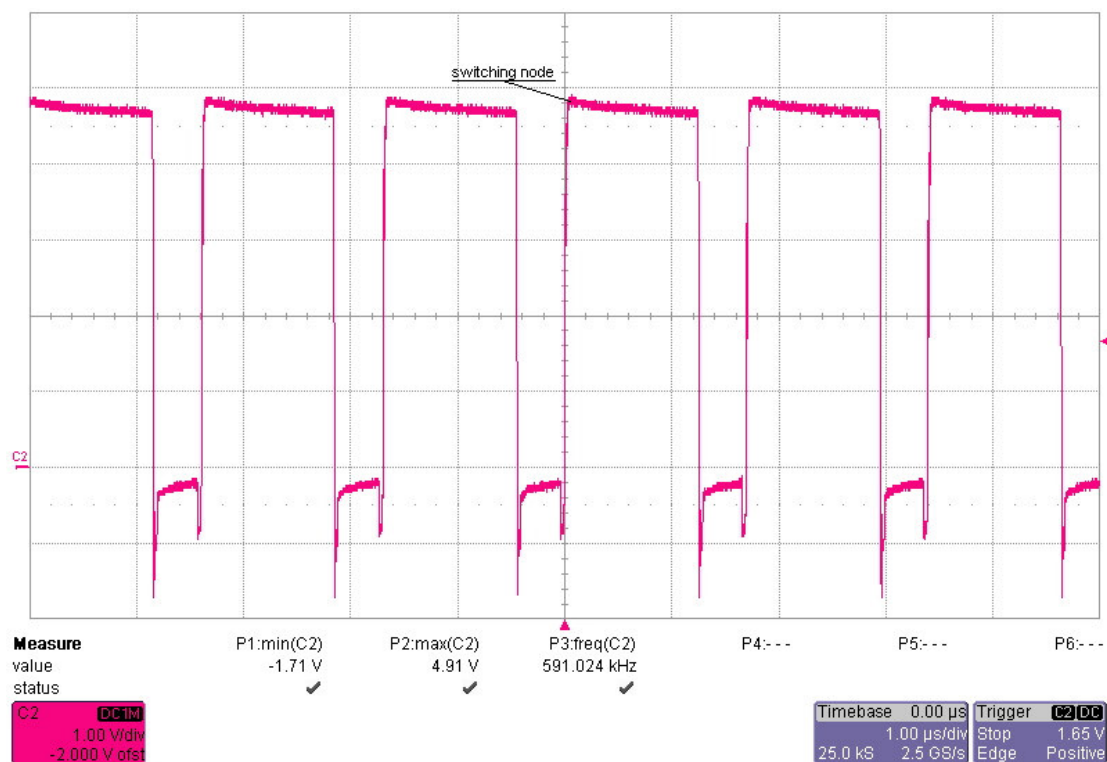
53 deg phase margin @ crossover frequency 85.5 kHz



4 Miscellaneous waveforms

The drain-source voltage on the switching node is shown below. The image was captured with a 5.0V input and a 6.0A load.

Channel C2: **drain-source voltage**, -1.7V minimum voltage, 4.9V maximum voltage
1V/div, 1us/div



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