

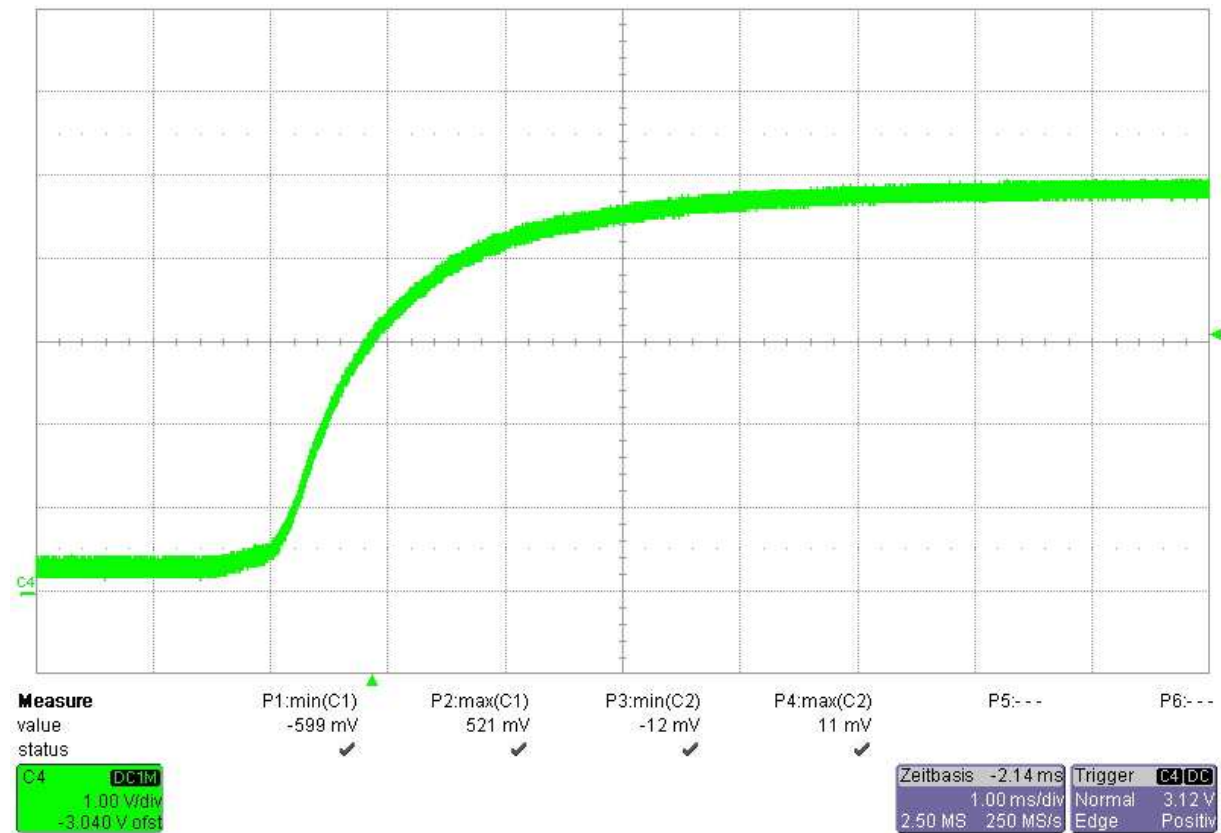
1 Startup

The output voltage at startup is shown in the image below.

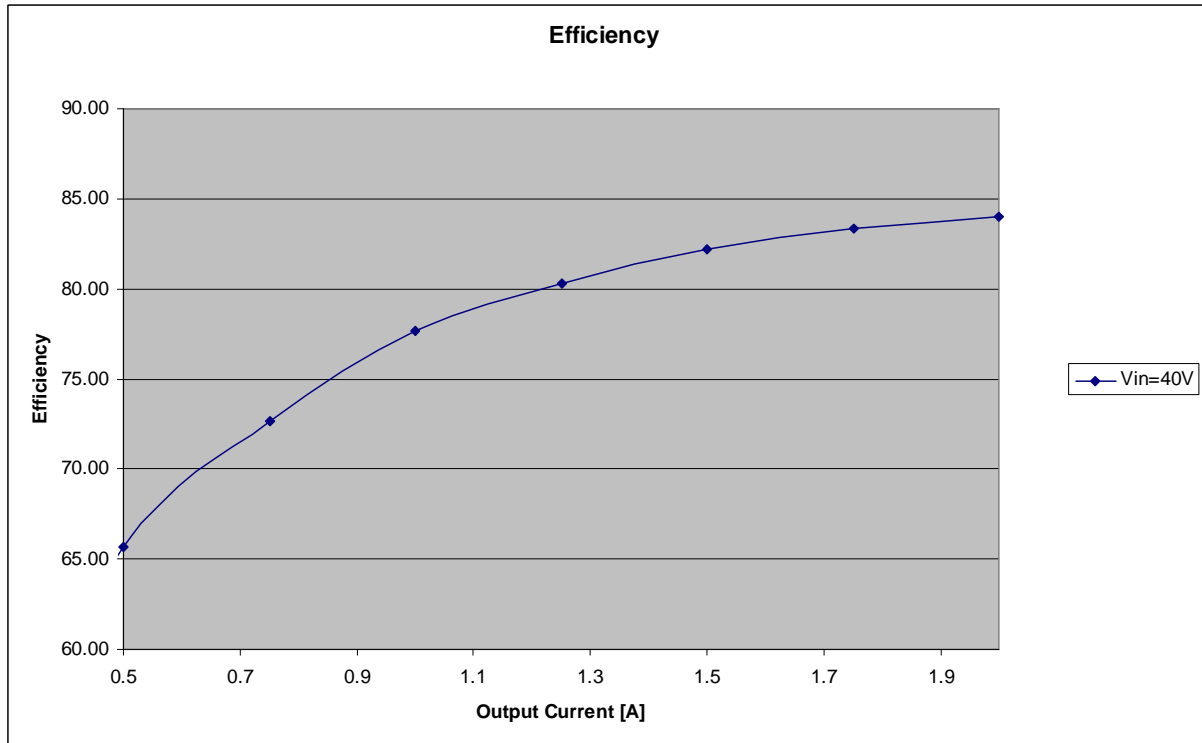
Input Voltage: 40V

Output current: 2A

Channel 4 shows the 5V output (1 V/div, 1ms/div).



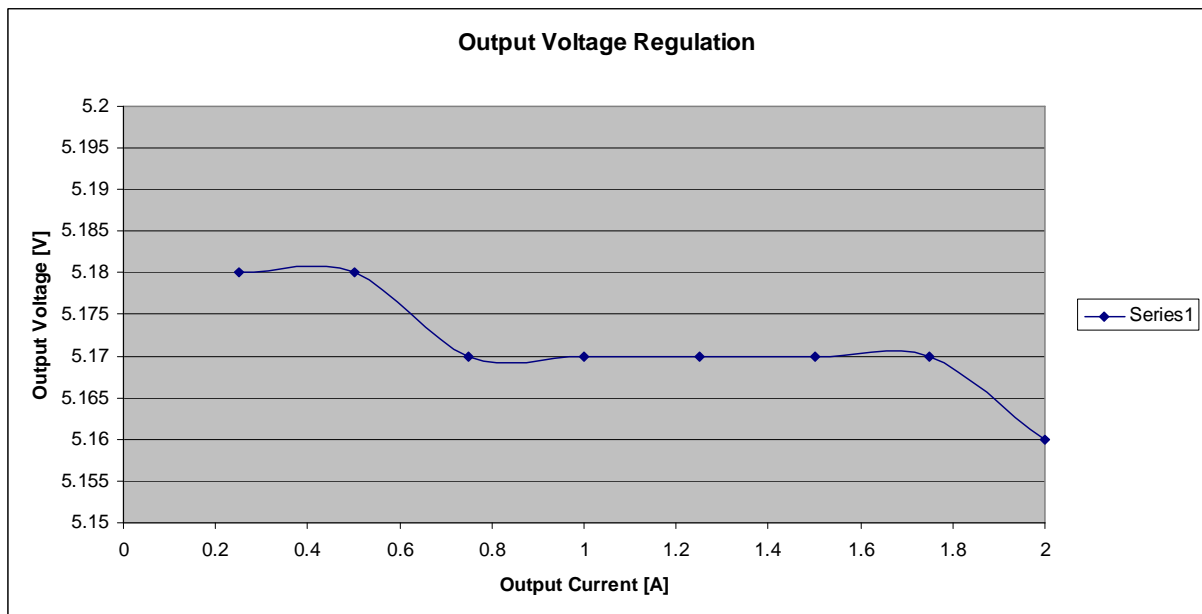
2 Efficiency



3 Output Voltage Regulation

The output voltage versus load current is plotted below.

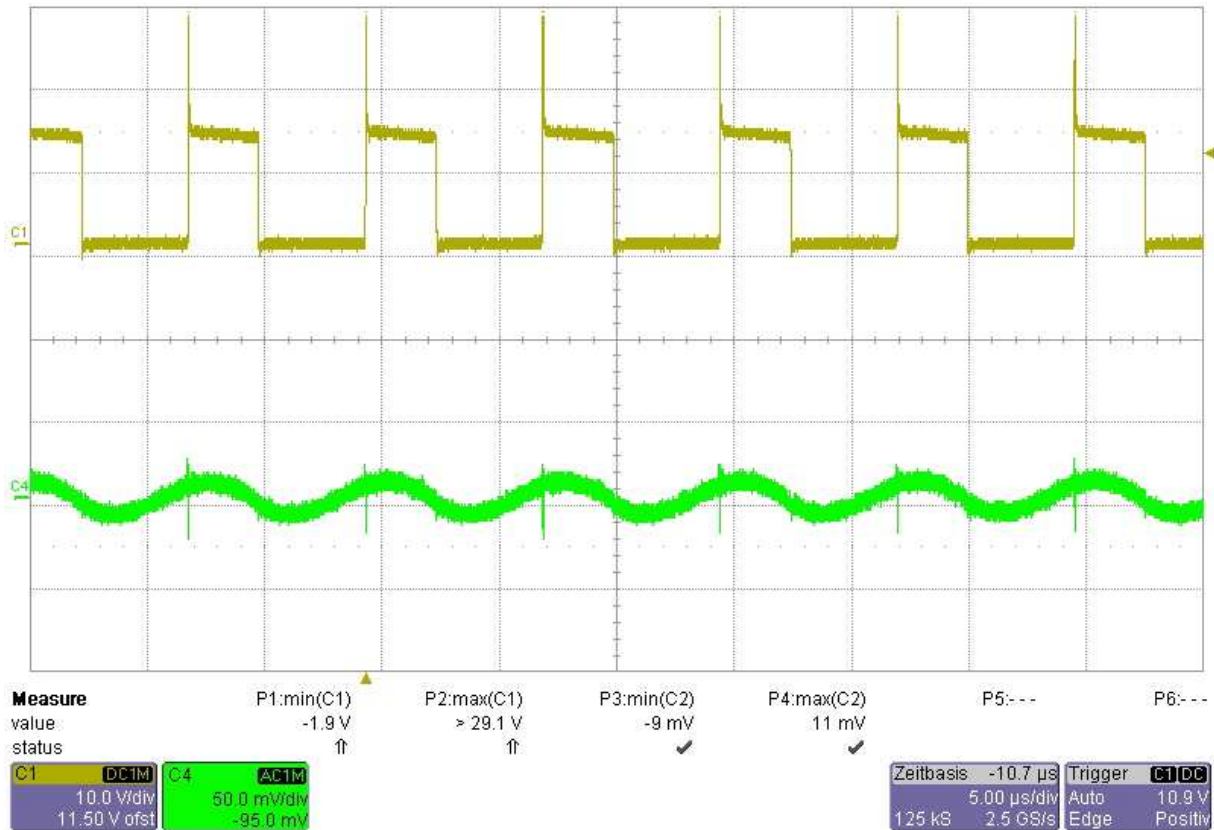
Input Voltage: 40V



4 Output Ripple Voltage

The output ripple voltage (C4) is shown in the plots below.
The C1 is the drain to source voltage at Q1.

Input Voltage: 40V
Output current: 2A

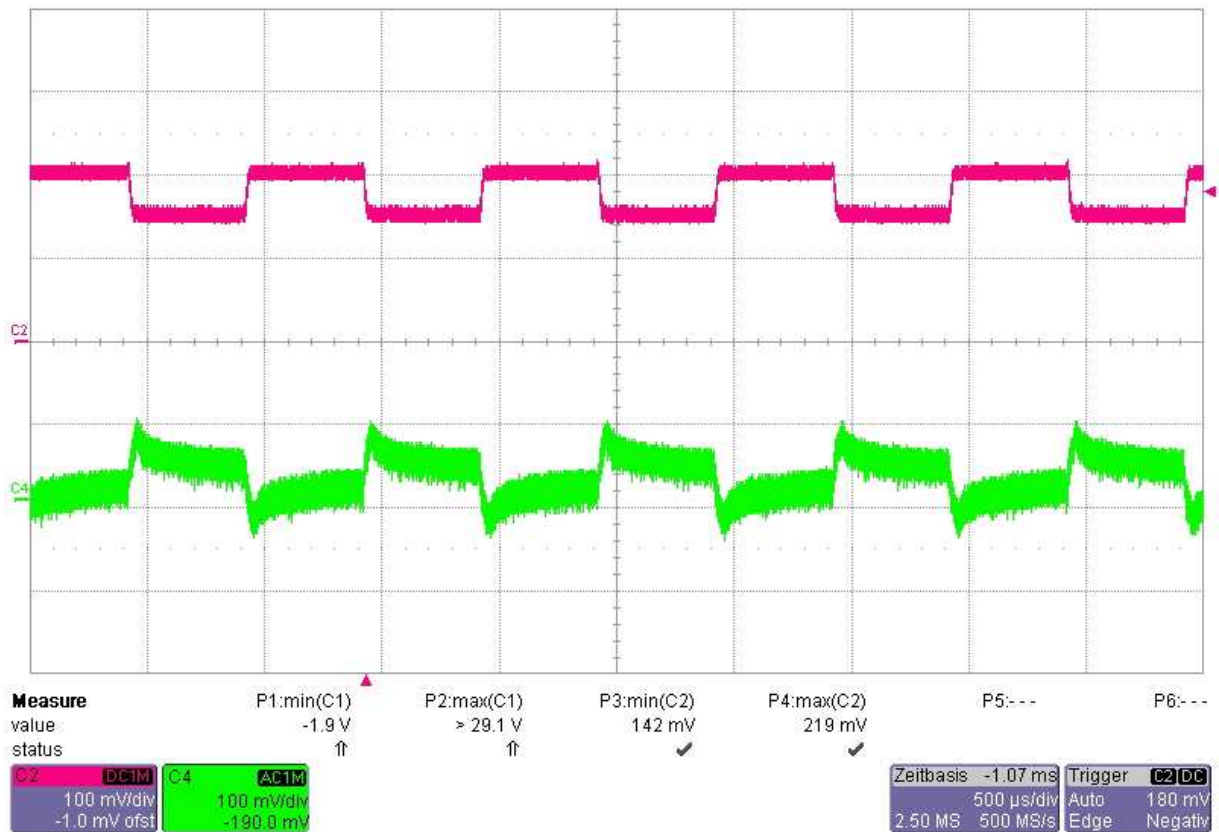


5 Load Transient

The image below shows the response to 1.5A to 2A load transient on the output voltage. The input voltage was set to the 40Vdc.

C2: Output Current [1A = 100mV]

C4: Output Voltage

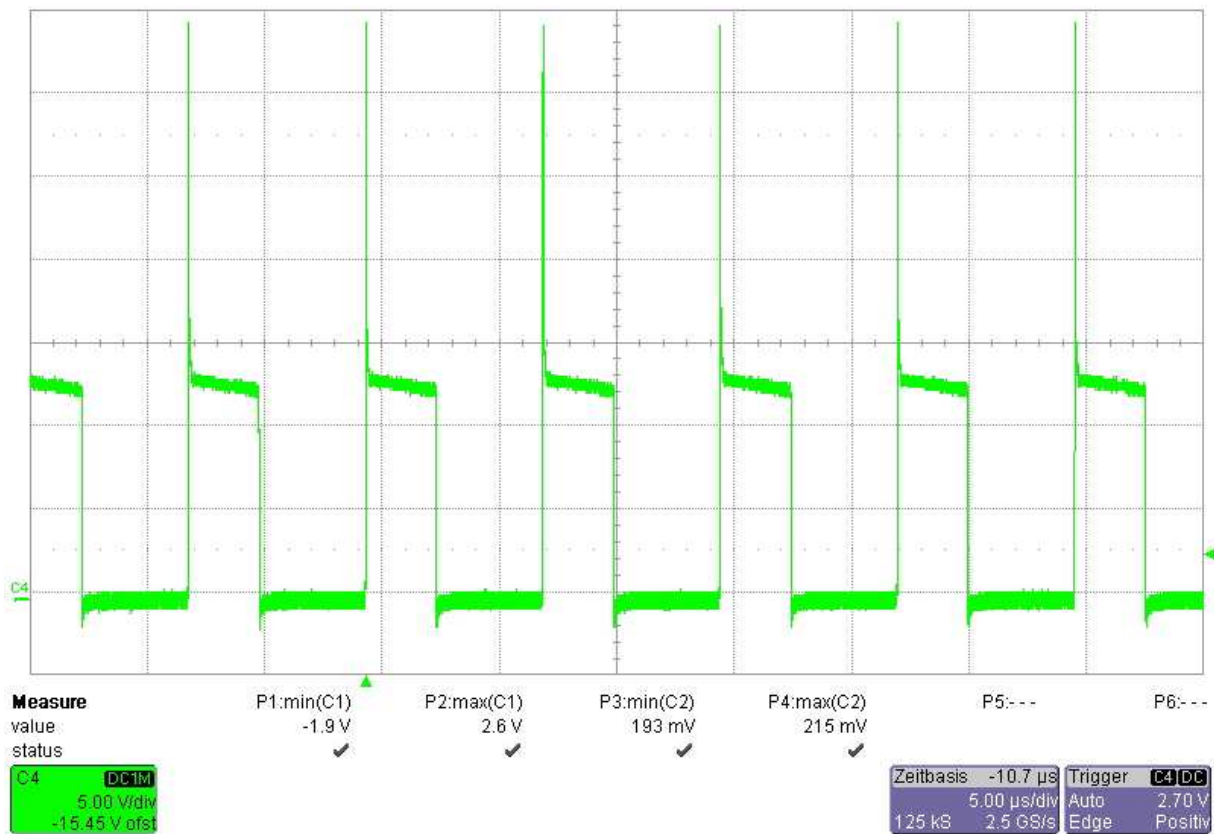


6 Drain Waveforms

The images below show the drain to source voltage at Q1.

Input Voltage: 40V

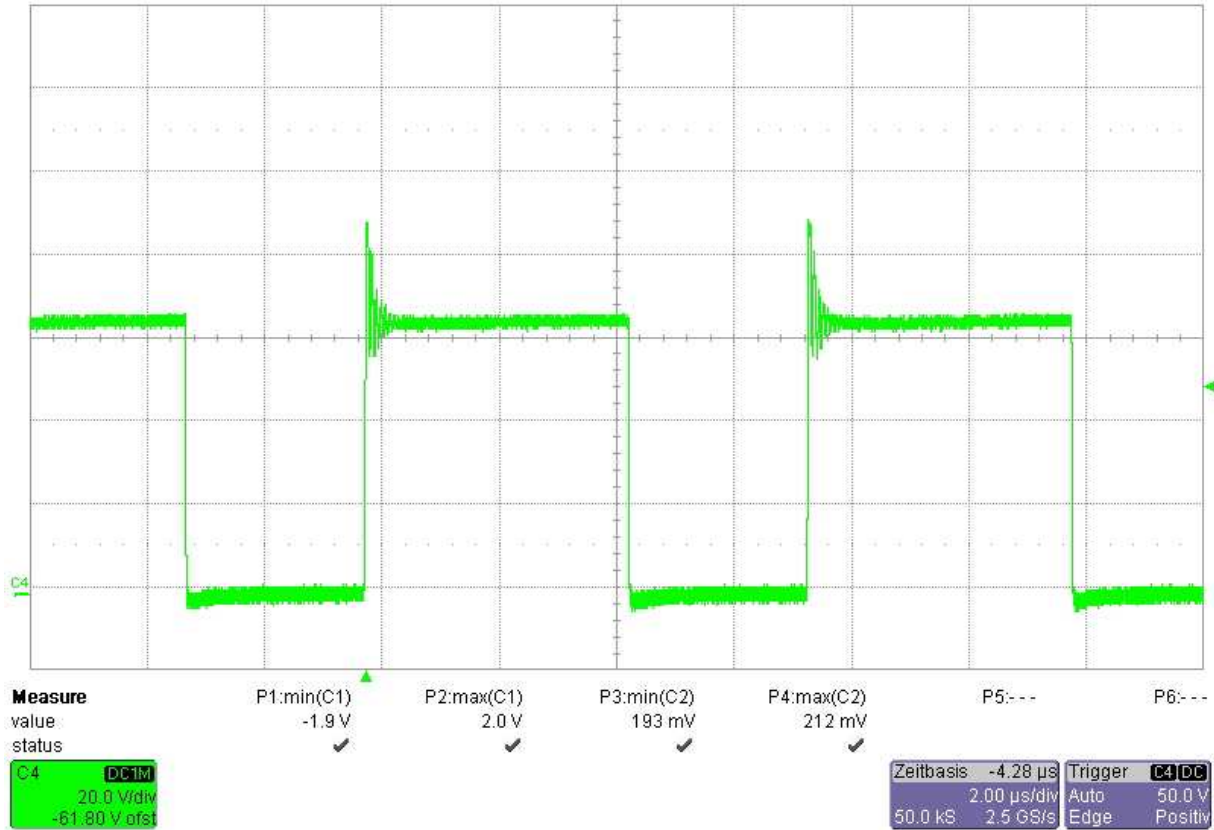
Output current: 2A



The images below show the drain to source voltage at Q2.

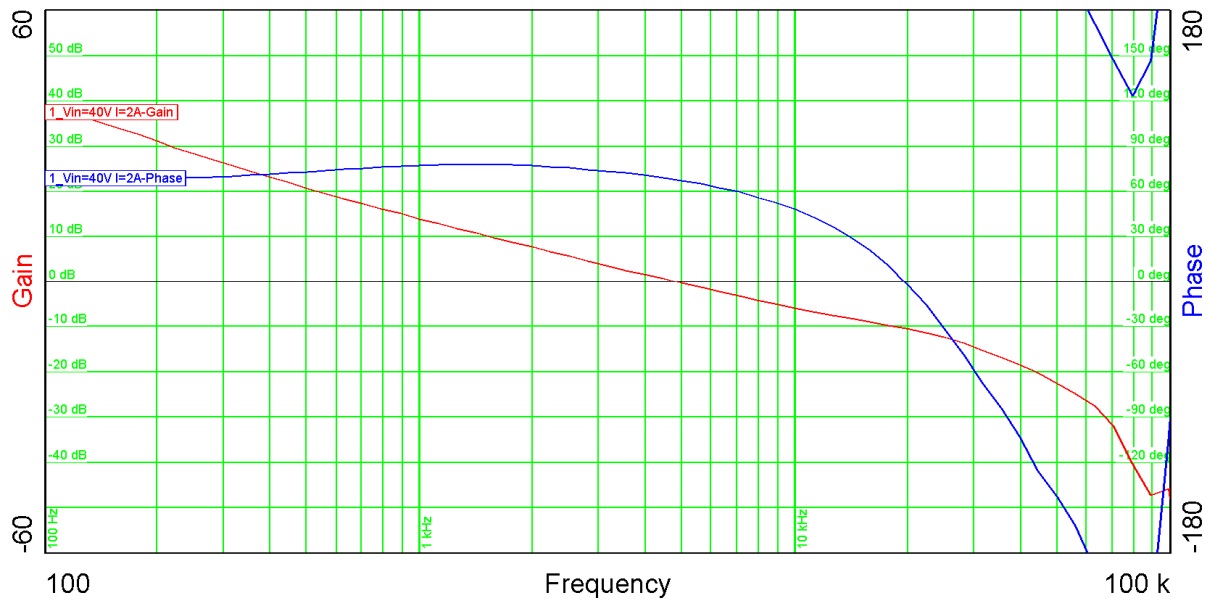
Input Voltage: 40V

Output current: 2A



7 Loop Response

The image below shows the loop response of the converter measured with a 40Vdc input, and a 2A load.



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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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