

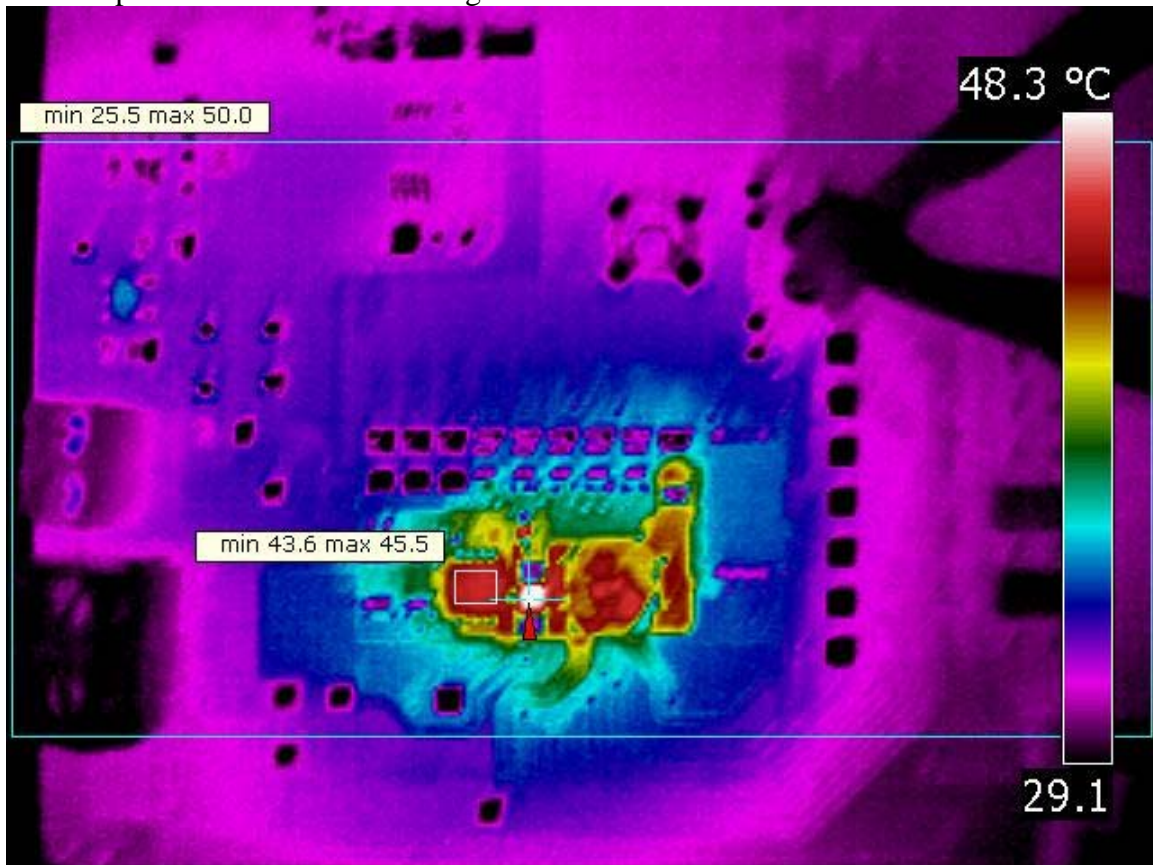
Table of Contents:

Page 1:	Thermal image 14 Vin full load model T1
Page 2:	Thermal image 19 Vin full load model T3
Page 3:	Main waveforms 14 Vin full load model T1
Page 4:	Main waveform 19 Vin full load models T2 & T3
Page 5:	output ripple 19 Vin full 5A load models T2 & T3
Page 6:	Step load and load dump response model T3

Note: Main switch Q1 CSD86330Q3D is actually rated to 25Vds, not 30Vds. Hence, operation off inputs above 15V is not recommended.

Thermal:

PMP5486: 14.14Vin 411mAin 0.965Vout 5.00A 500kHz
snubber hot at 50; dual FET CSD86330Q3 at 45.5
choke top at 46 ambient at 23-25 degrees C



Qq
Qq

19Vin thermal model T3:

PMP5486: 19Vin 315mAin 0.969Vout 5.00A 500kHz model t3

snubber hot at 54; dual FET CSD86330Q3 at 48

choke top at 49 ambient at 23-25 degrees C

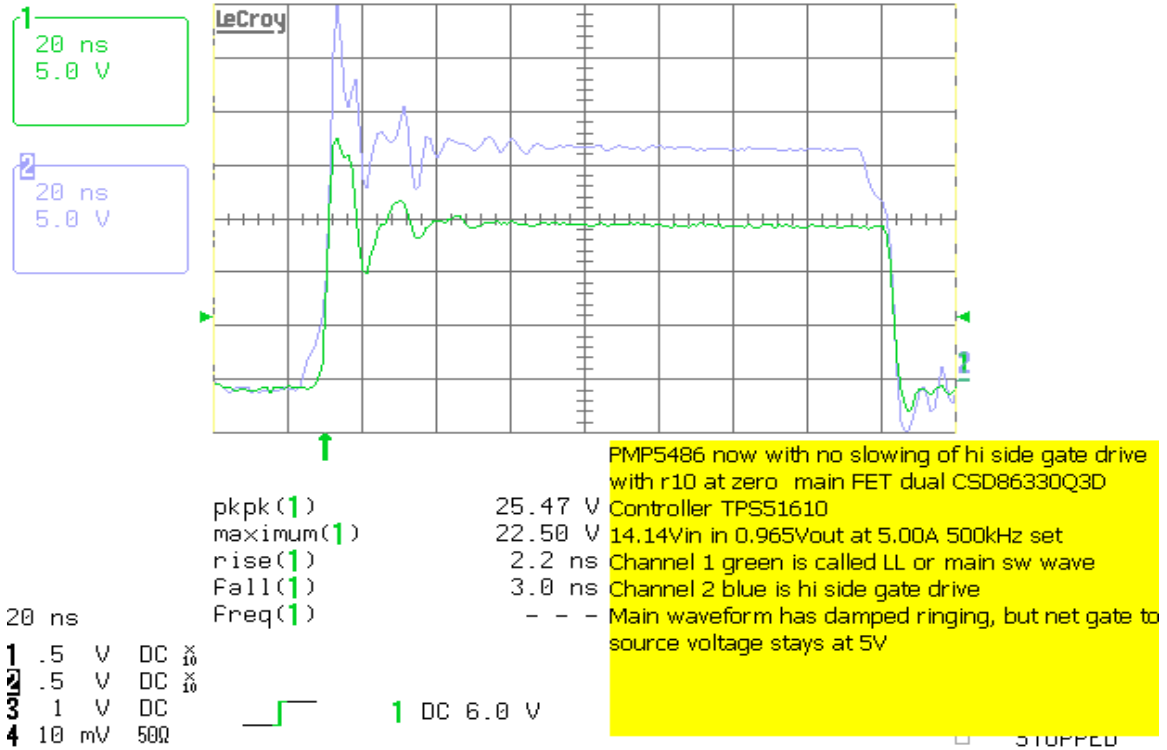


Qq

Note: Main switch Q1 CSD86330Q3D is actually rated to 25Vds, not 30Vds. Hence, operation off inputs above 15V is not recommended.

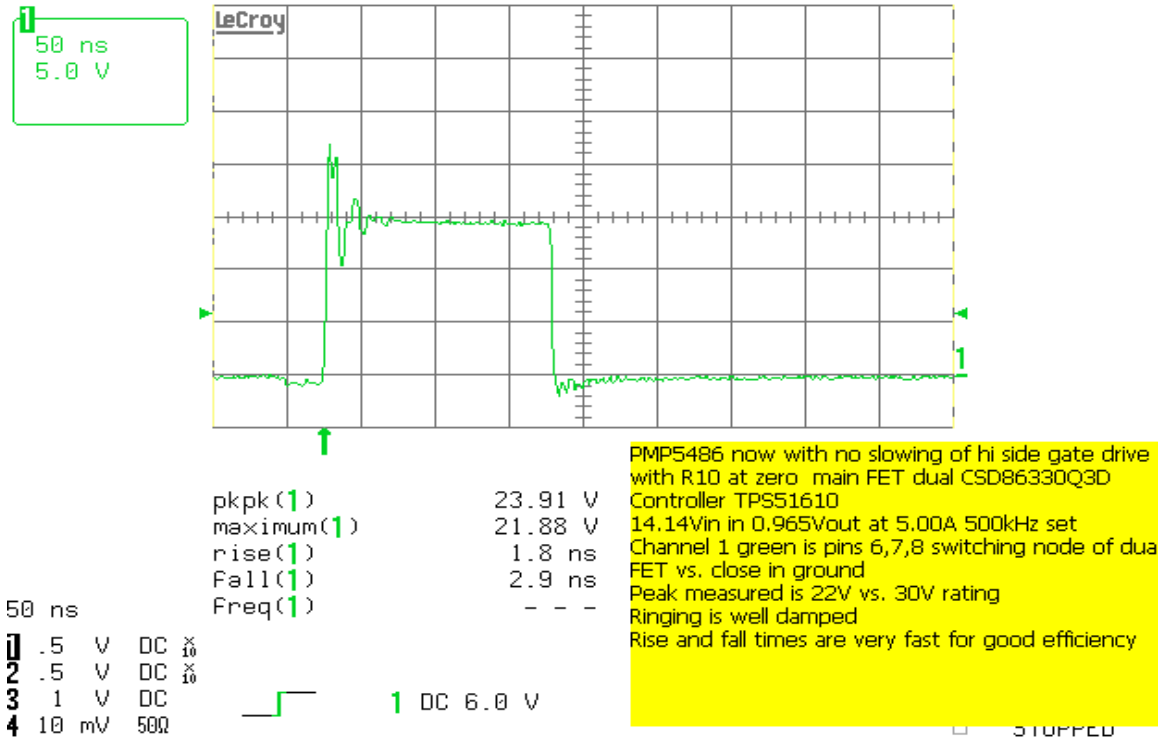
Main waveforms with 14Vin and 5A load: Model T1

17-Jun-10
18:31:36



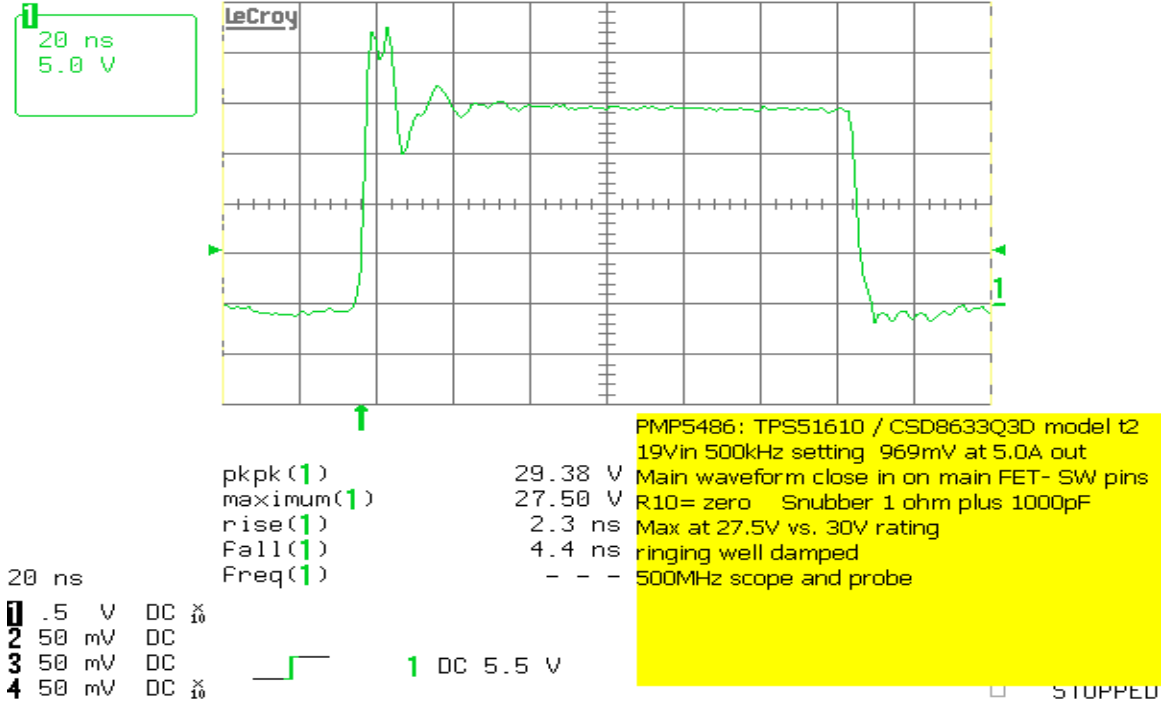
Now close in probe of just Vds of low side FET when hi side turns on:

17-Jun-10
18:36:19



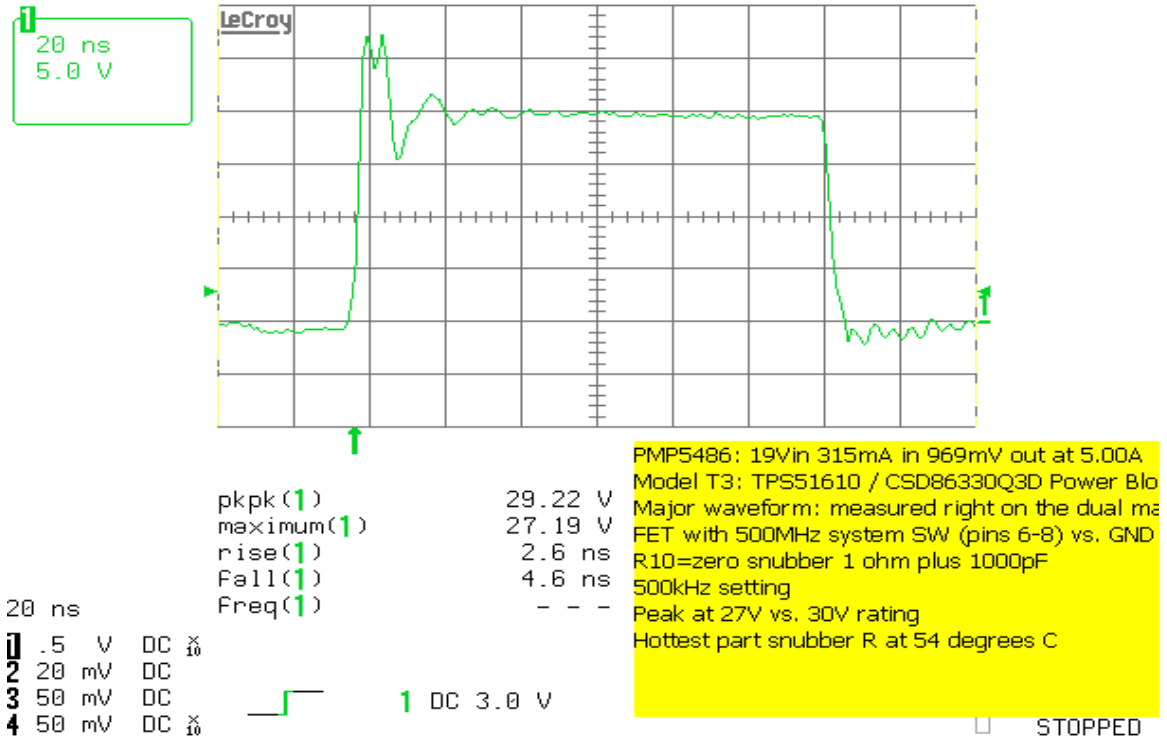
Main waveform: 19Vin model T2

21-Jun-10
16:54:43



Same with model T3:

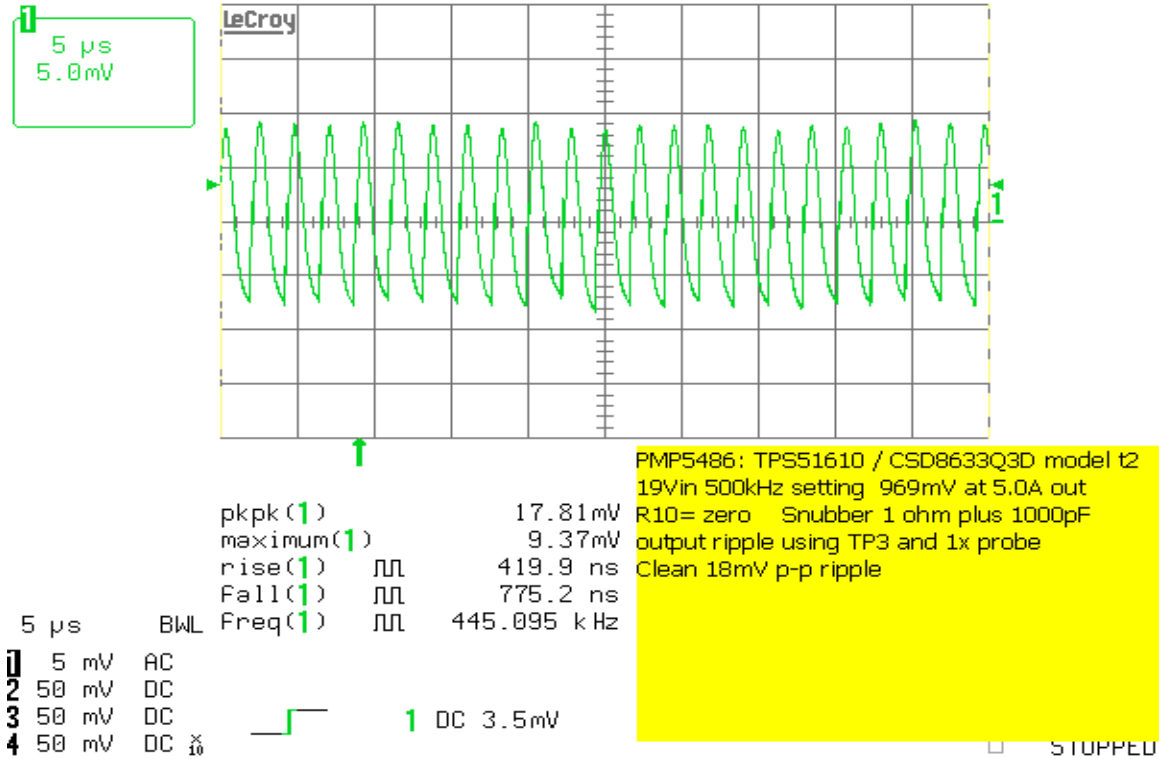
22-Jun-10 Reading Floppy Disk Drive
14:39:43



Qq

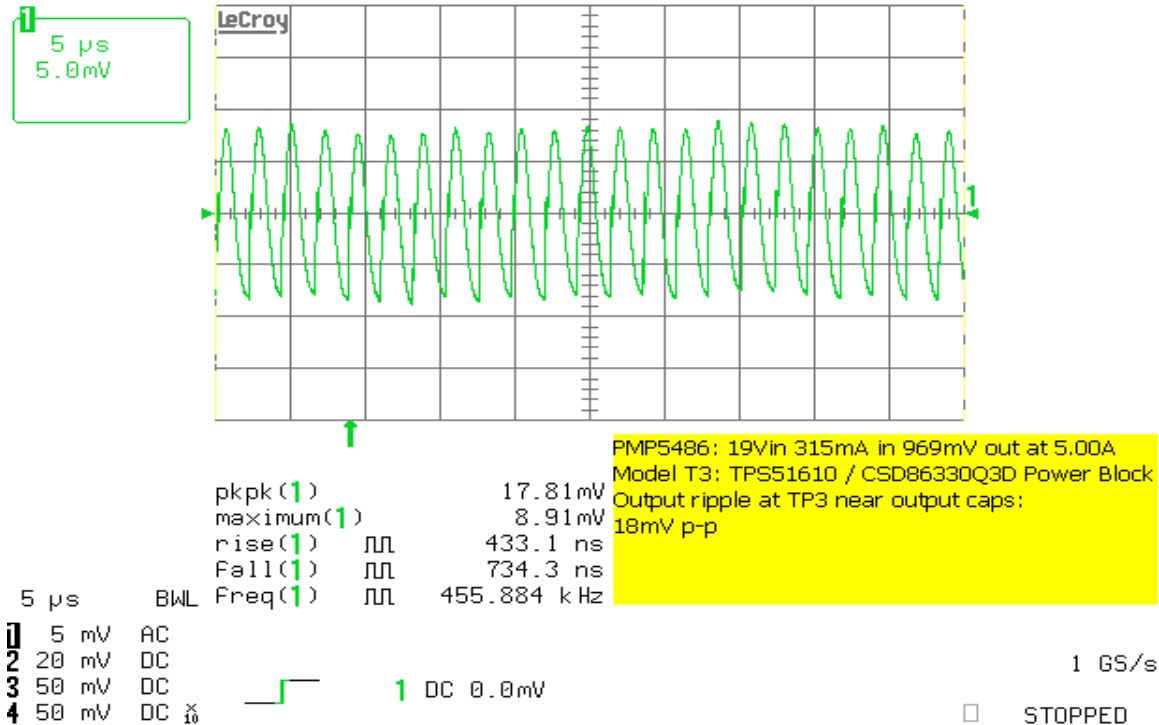
Output ripple: 19vin full load model T2

21-Jun-10
17:02:14



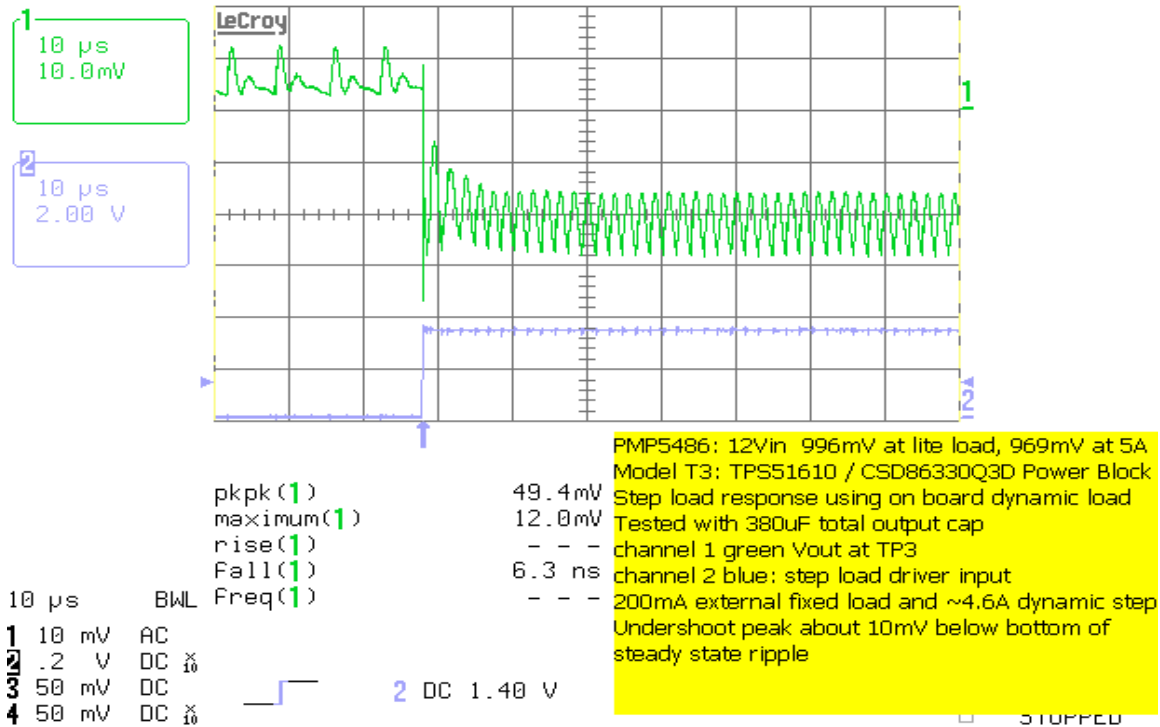
Same, but model T3:

22-Jun-10
14:42:45



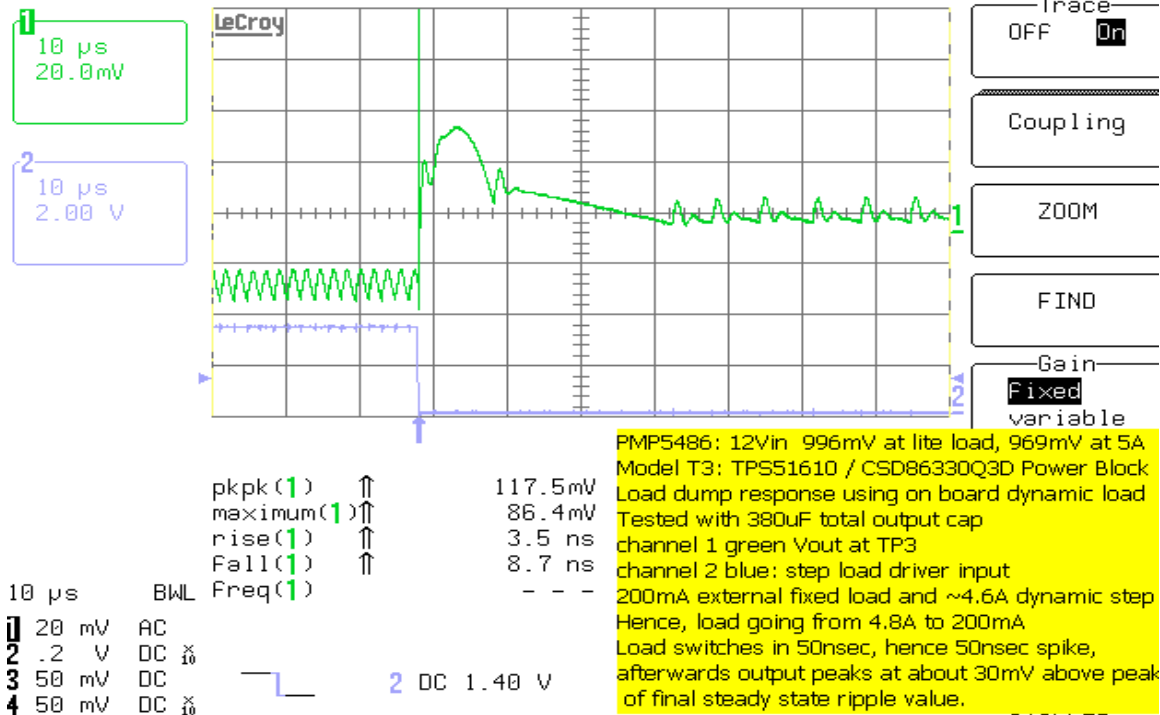
Load step response: model T3: 12Vin

22-Jun-10
14:49:25



Load dump response: Model T3

22-Jun-10
14:54:04



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