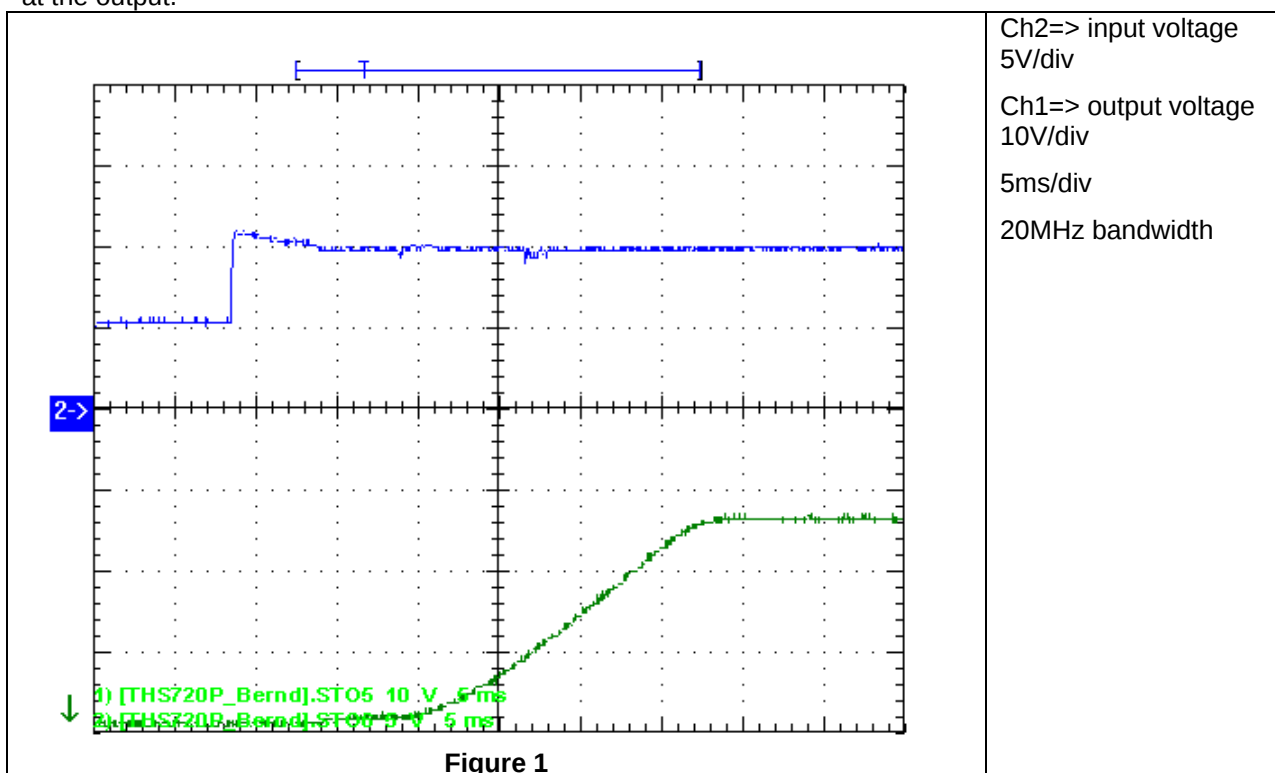


PMP5657RevB-26V Test Results

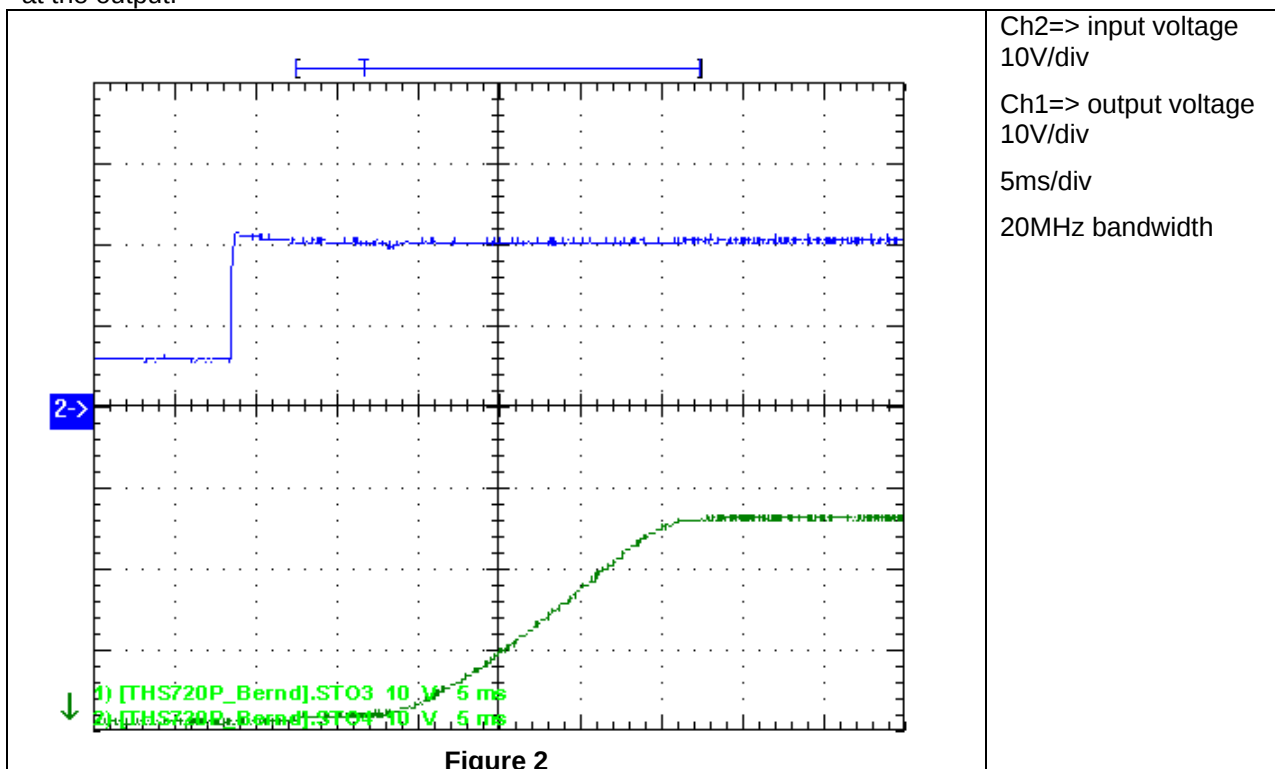
1	Startup.....	2
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1 Startup

The startup waveform is shown in the Figure 1. The input voltage was set to 10V, with 1.6A load at the output.

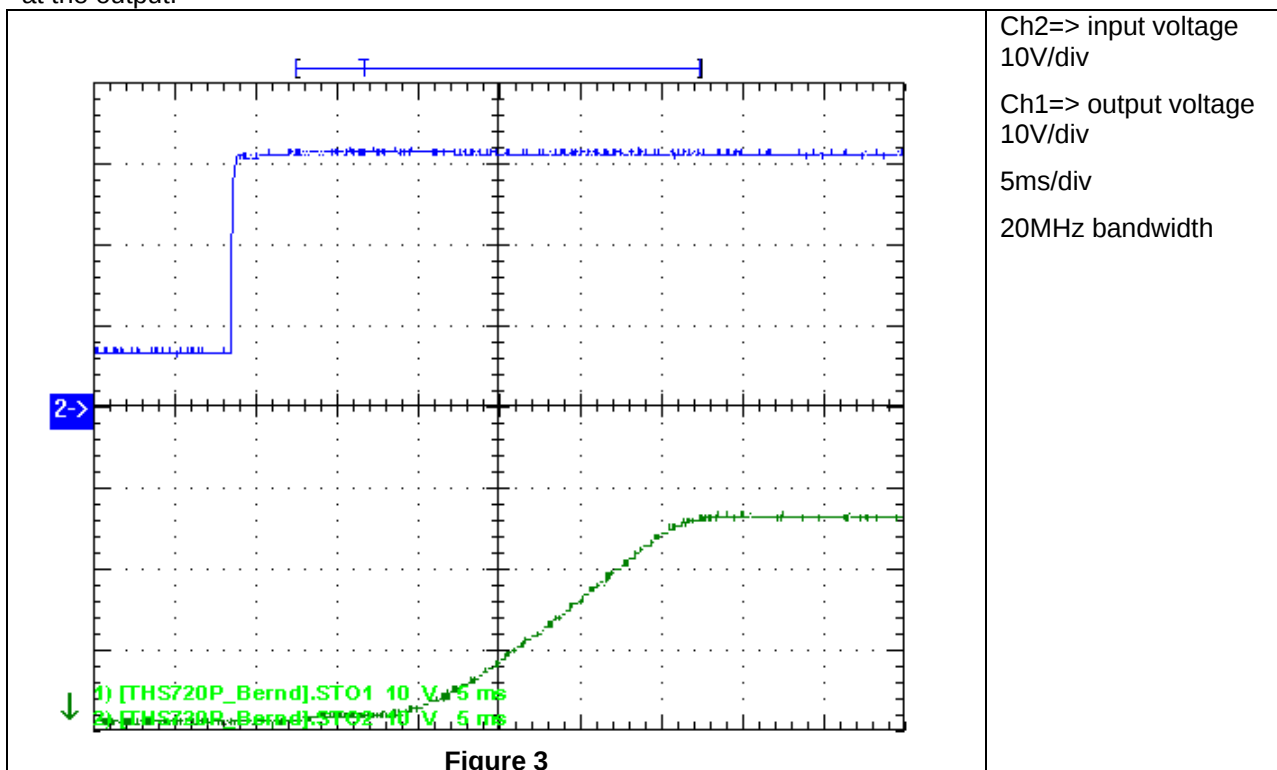


The startup waveform is shown in the Figure 2. The input voltage was set to 21V, with 1.6A load at the output.



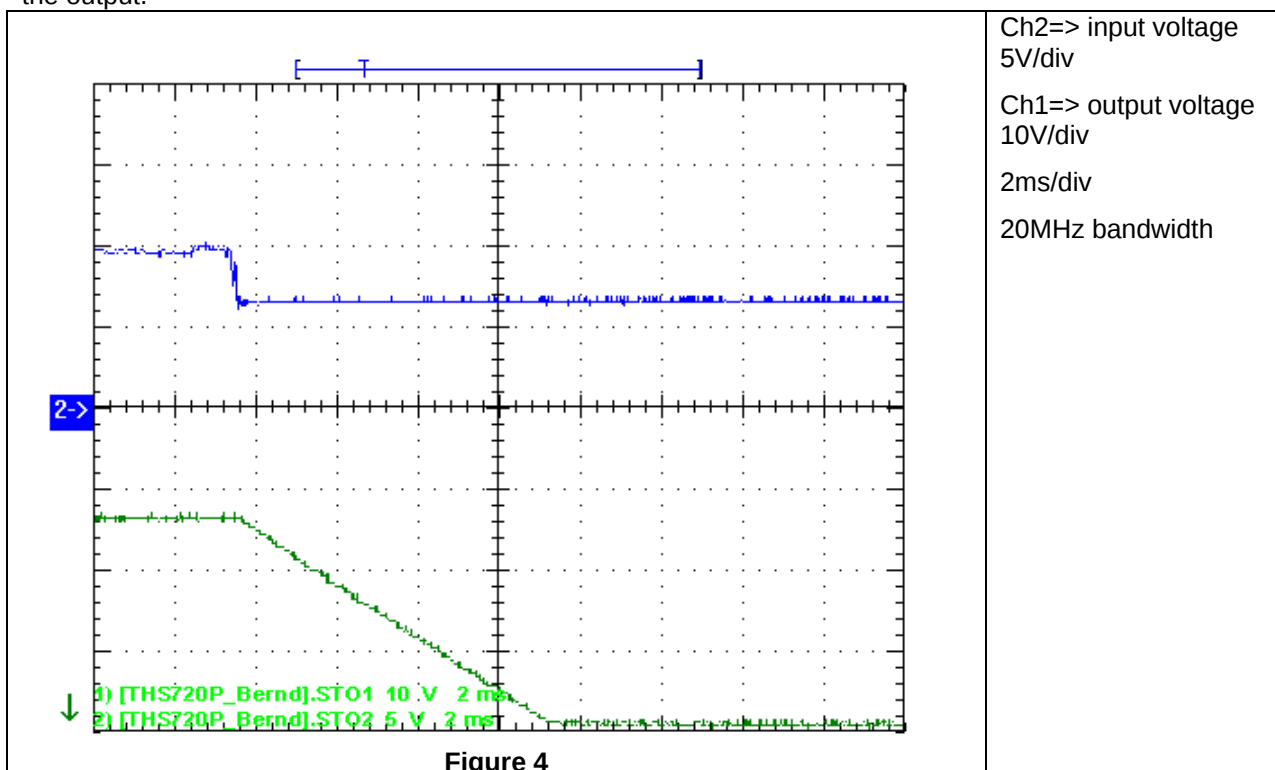
PMP5657RevB-26V Test Results

The startup waveform is shown in the Figure 4. The input voltage was set to 32V, with 1.6A load at the output.

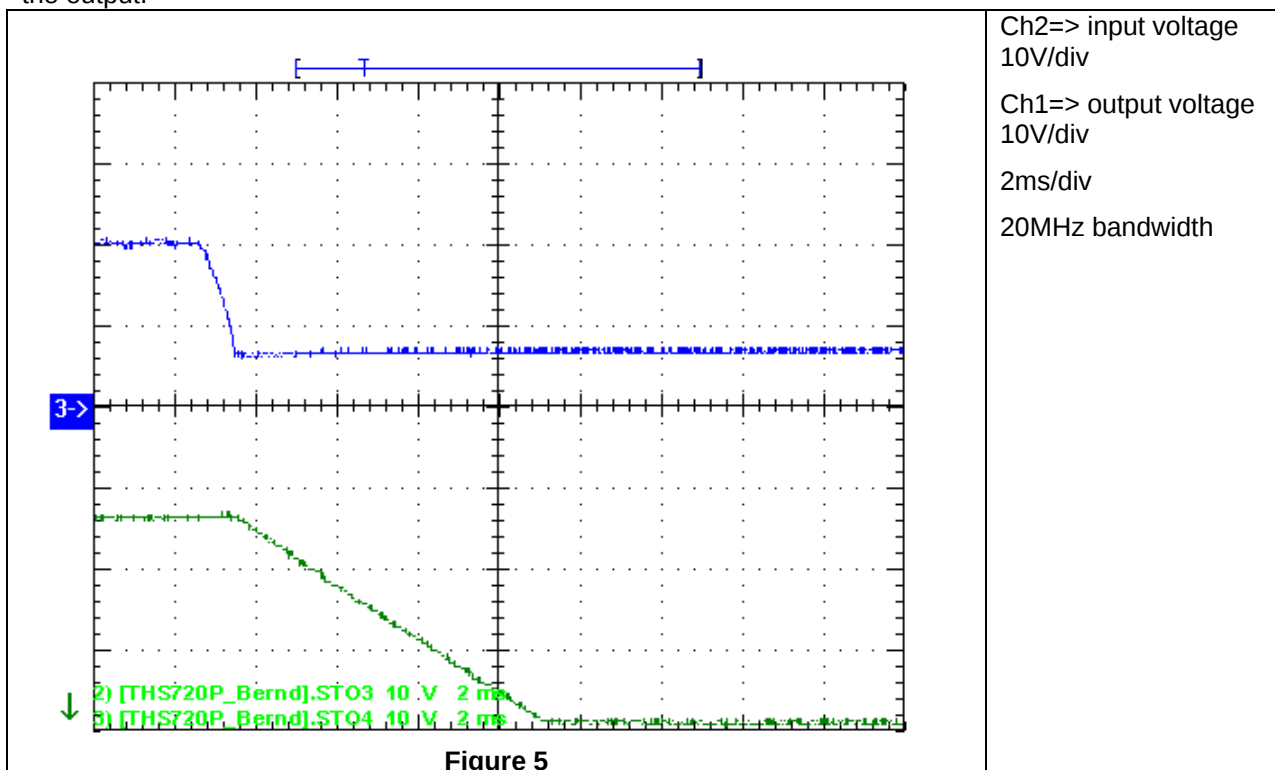


2 Shutdown

The shutdown waveform is shown in the Figure 4 at 10V input voltage. With 1.6A load applied at the output.

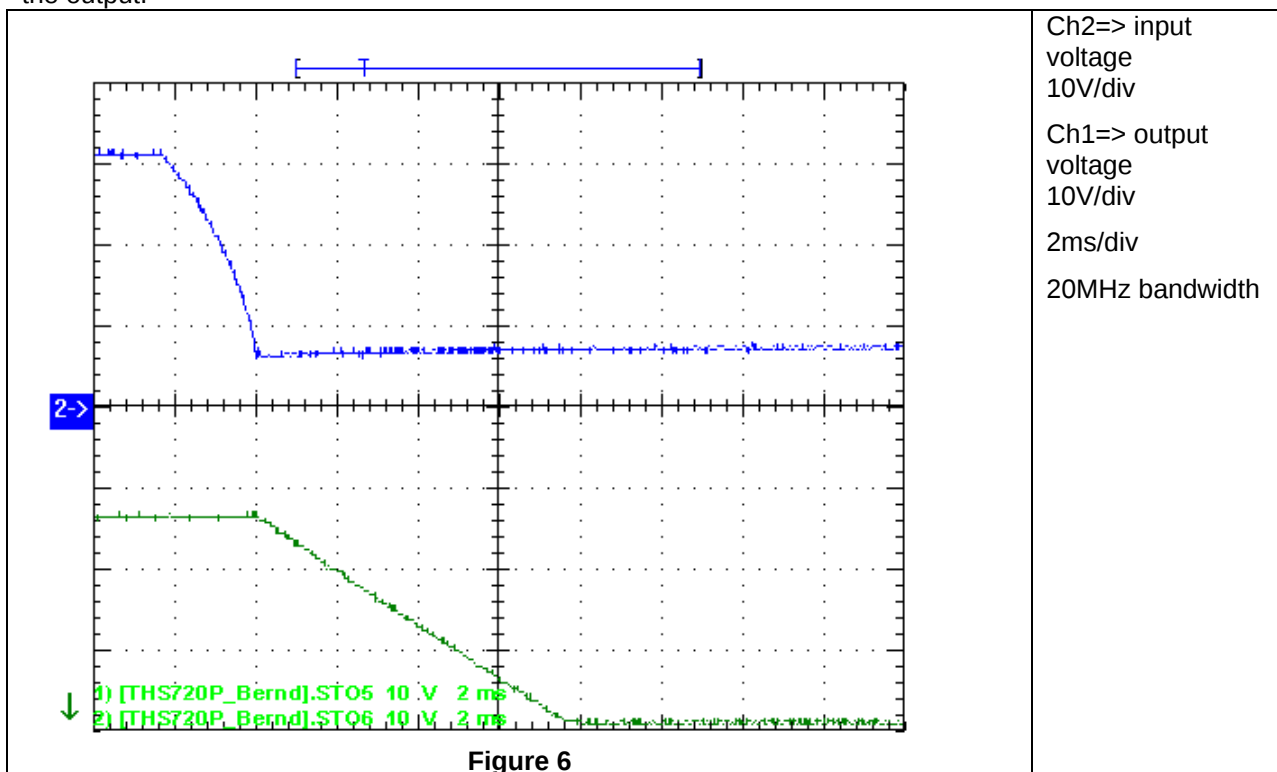


The shutdown waveform is shown in the Figure 5 at 21V input voltage. With 1.6A load applied at the output.



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The shutdown waveform is shown in the Figure 6 at 32V input voltage. With 1.6A load applied at the output.



3 Efficiency

The efficiencies with different input voltages are shown in the Figure 7 below.

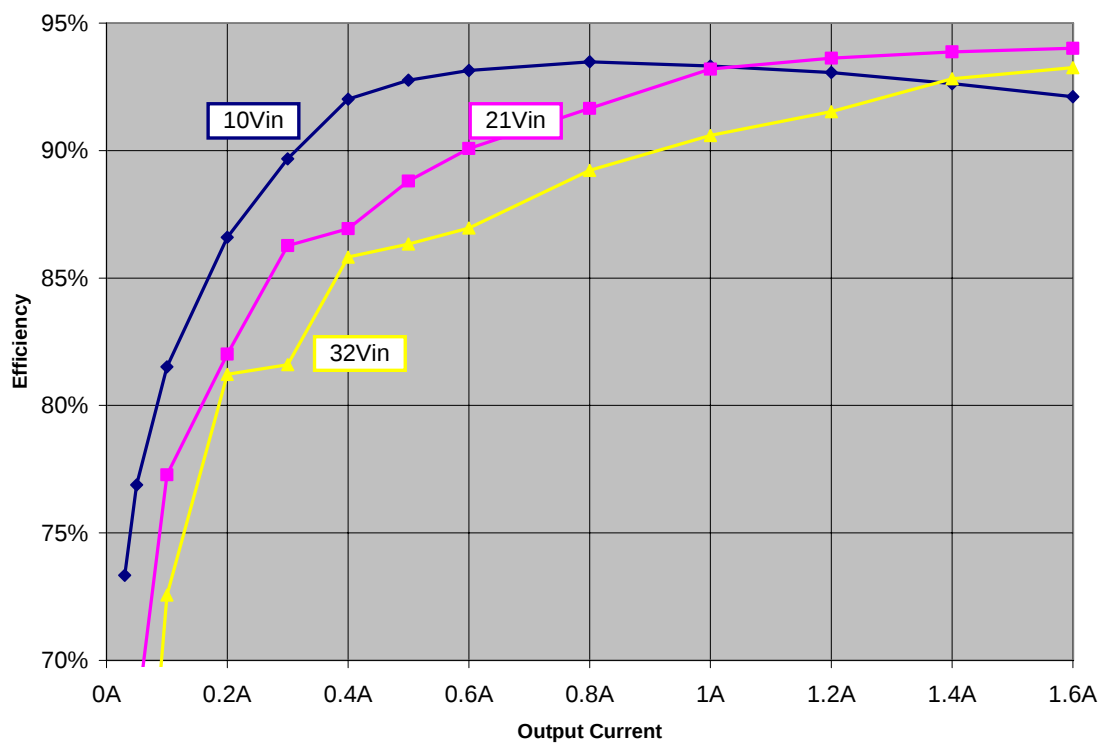


Figure 7

PMP5657RevB-26V Test Results

4 Load regulation

The load regulation at different input voltages are shown in Figure 8.

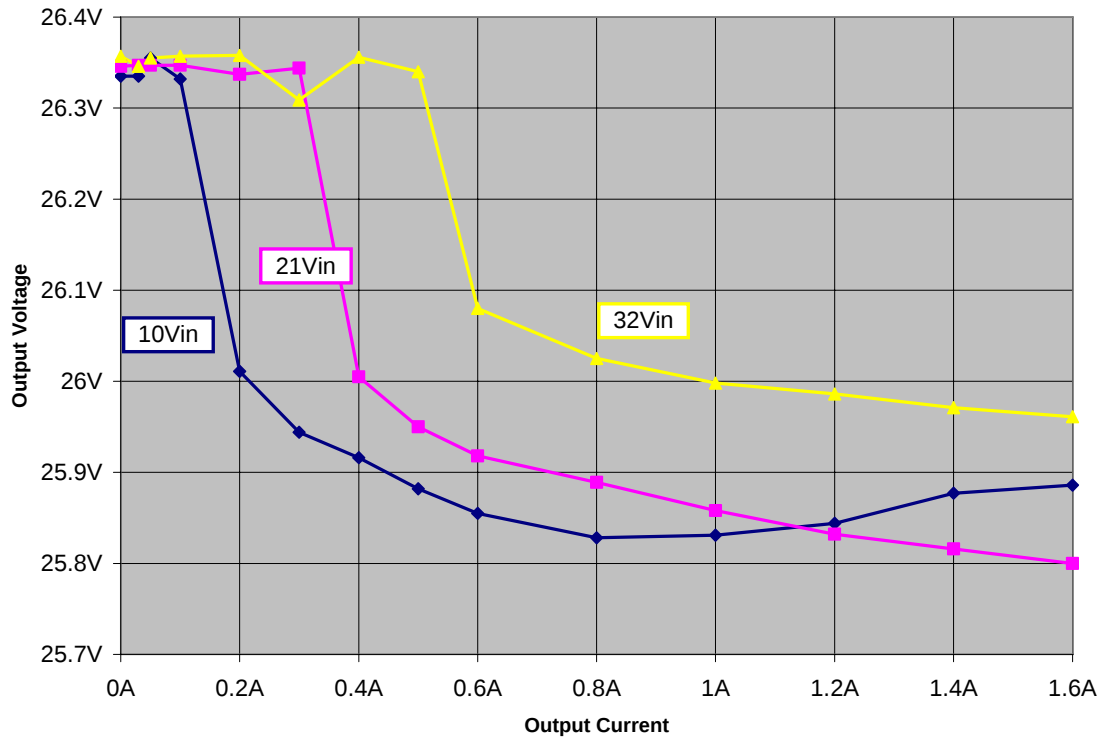


Figure 8

PMP5657RevB-26V Test Results

5 Line Regulation

The line regulation at 1.6A output current is shown in Figure 9.

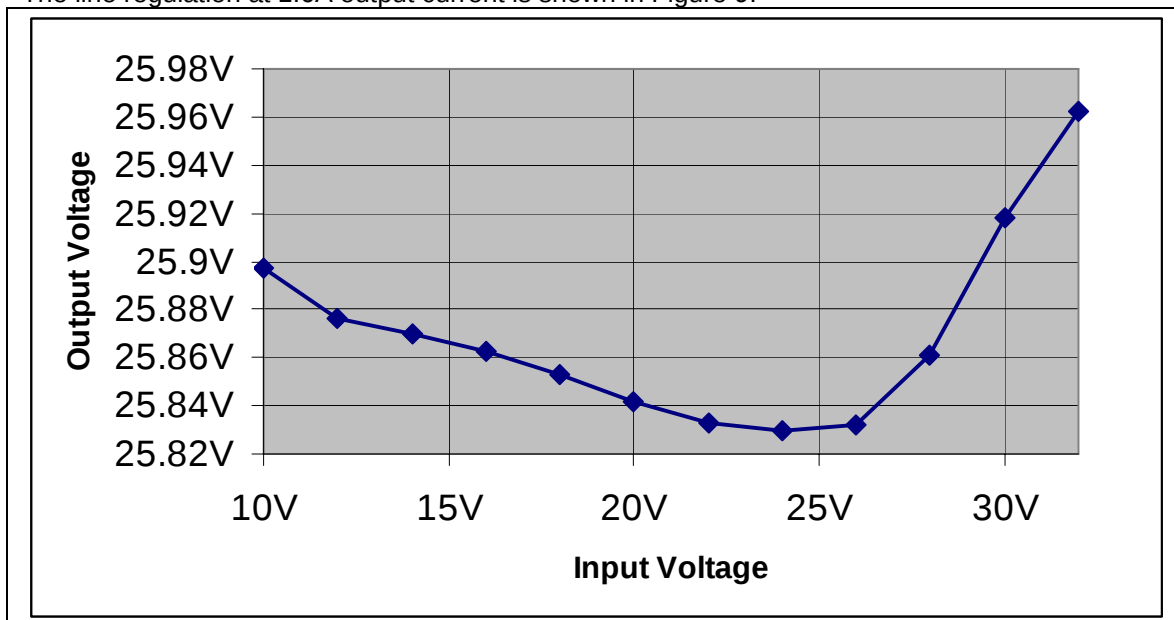


Figure 9

With the same measurement setup the efficiencies are shown in Figure 10.

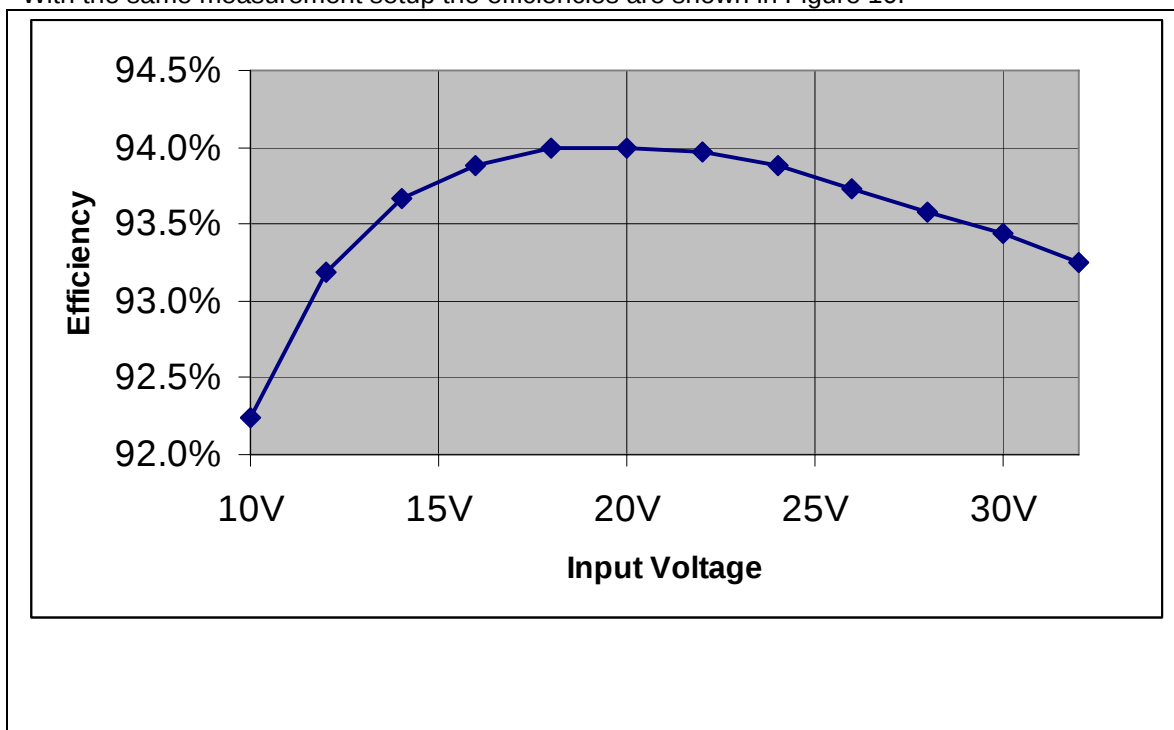
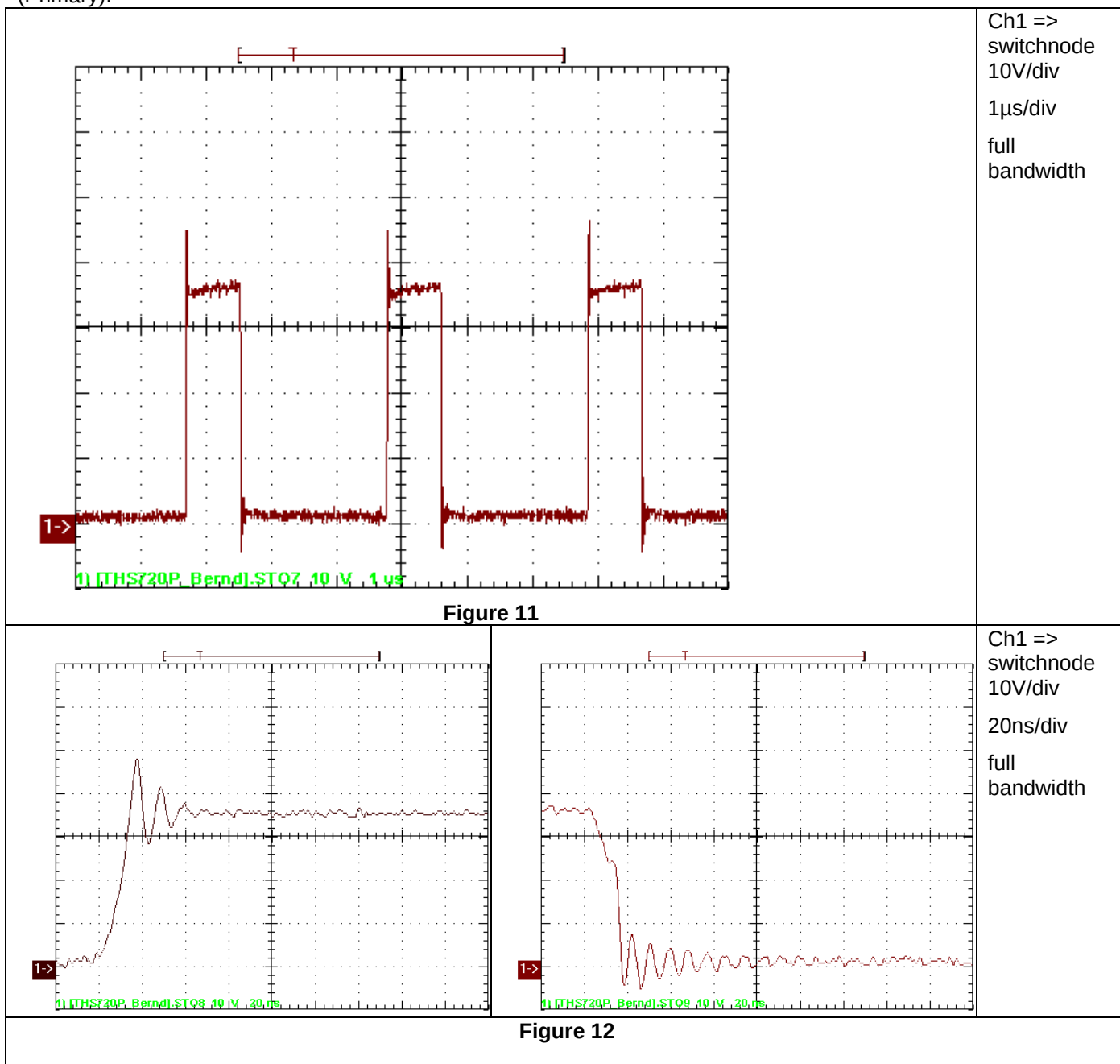


Figure 10

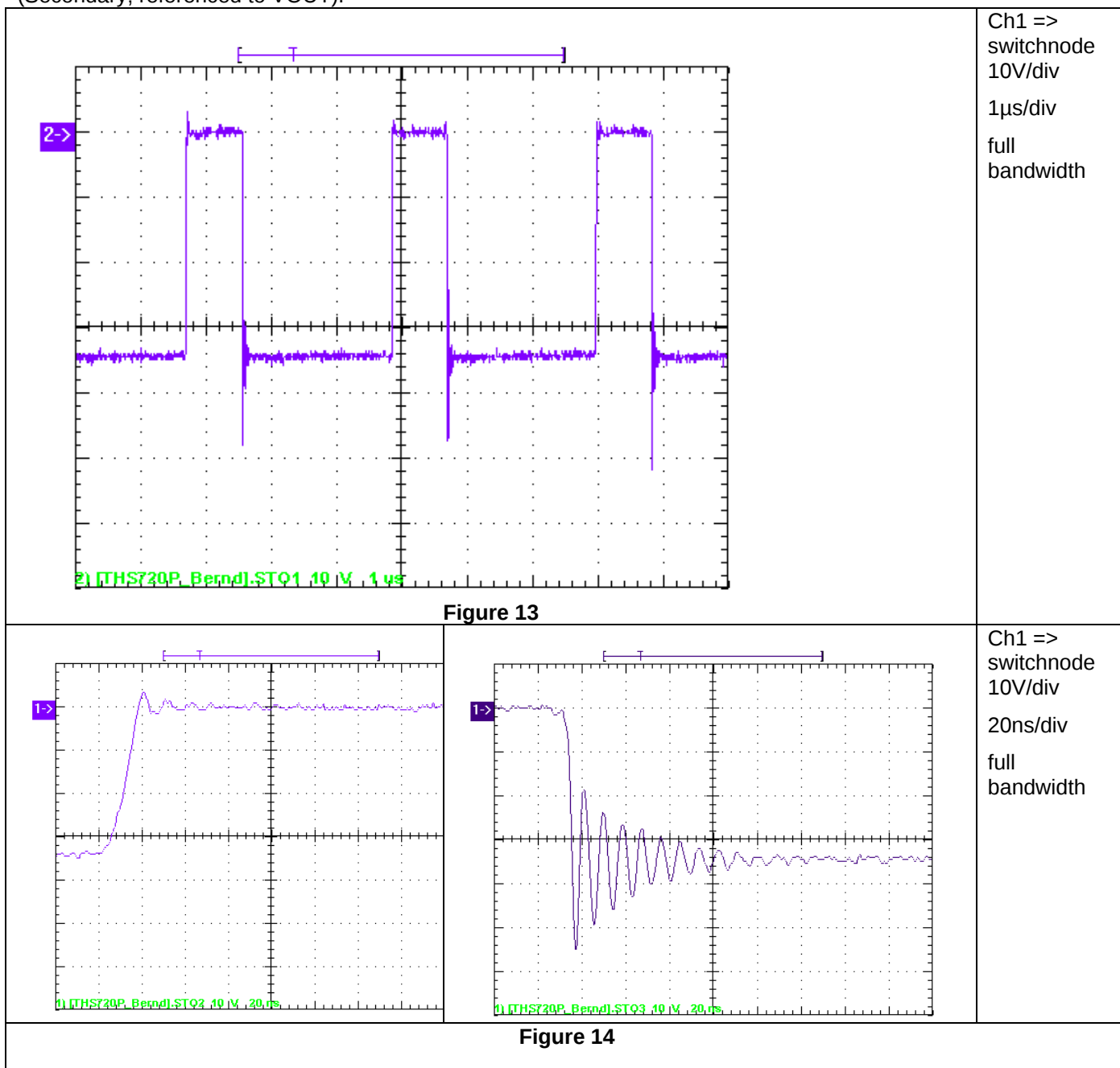
6 Switch Node Waveform

With 1.6A load results in the waveforms shown in Figure 11. 10V were applied to the input (Primary).



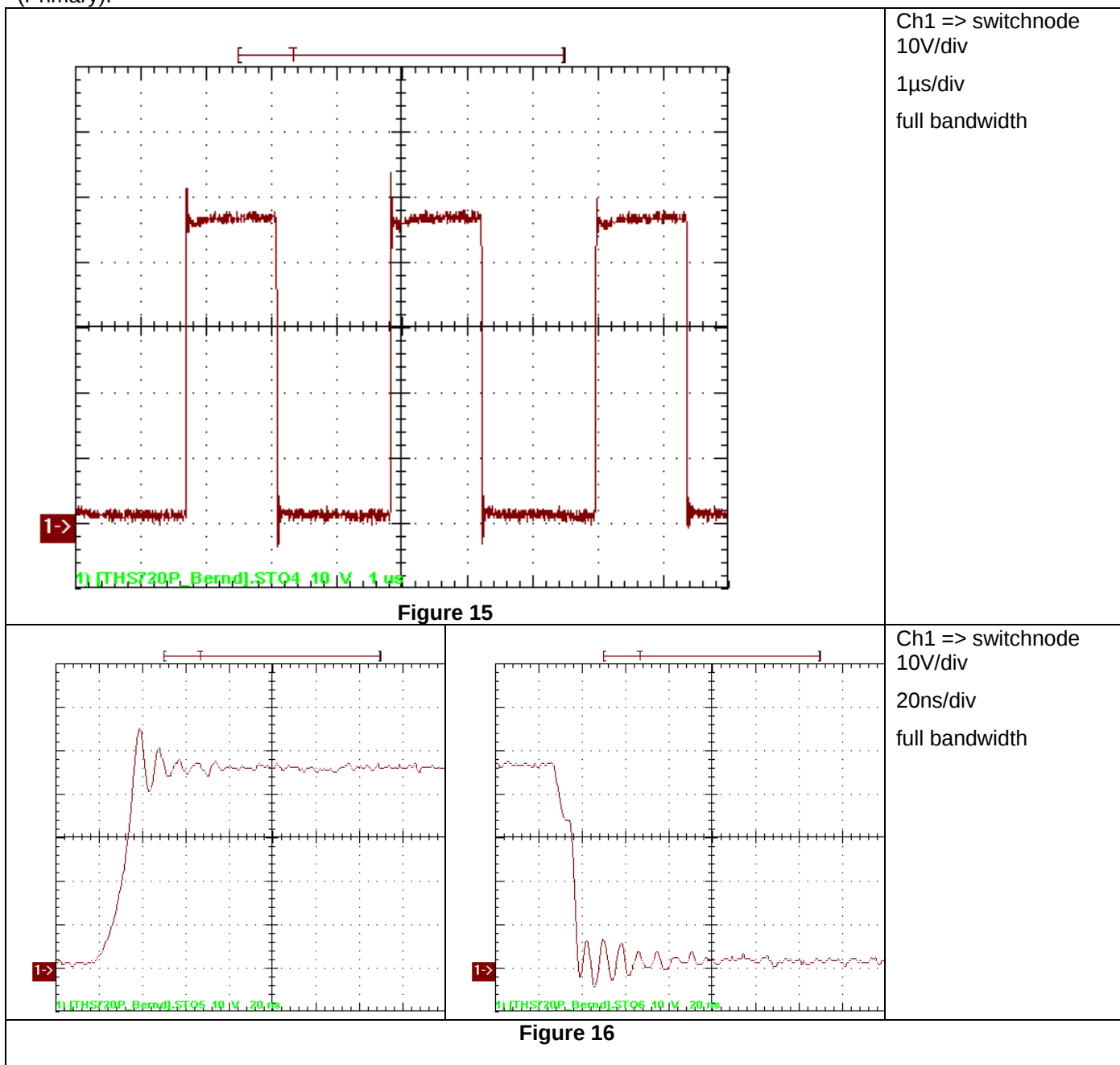
PMP5657RevB-26V Test Results

With 1.6A load results in the waveforms shown in Figure 13. 10V were applied to the input (Secondary; referenced to VOUT).



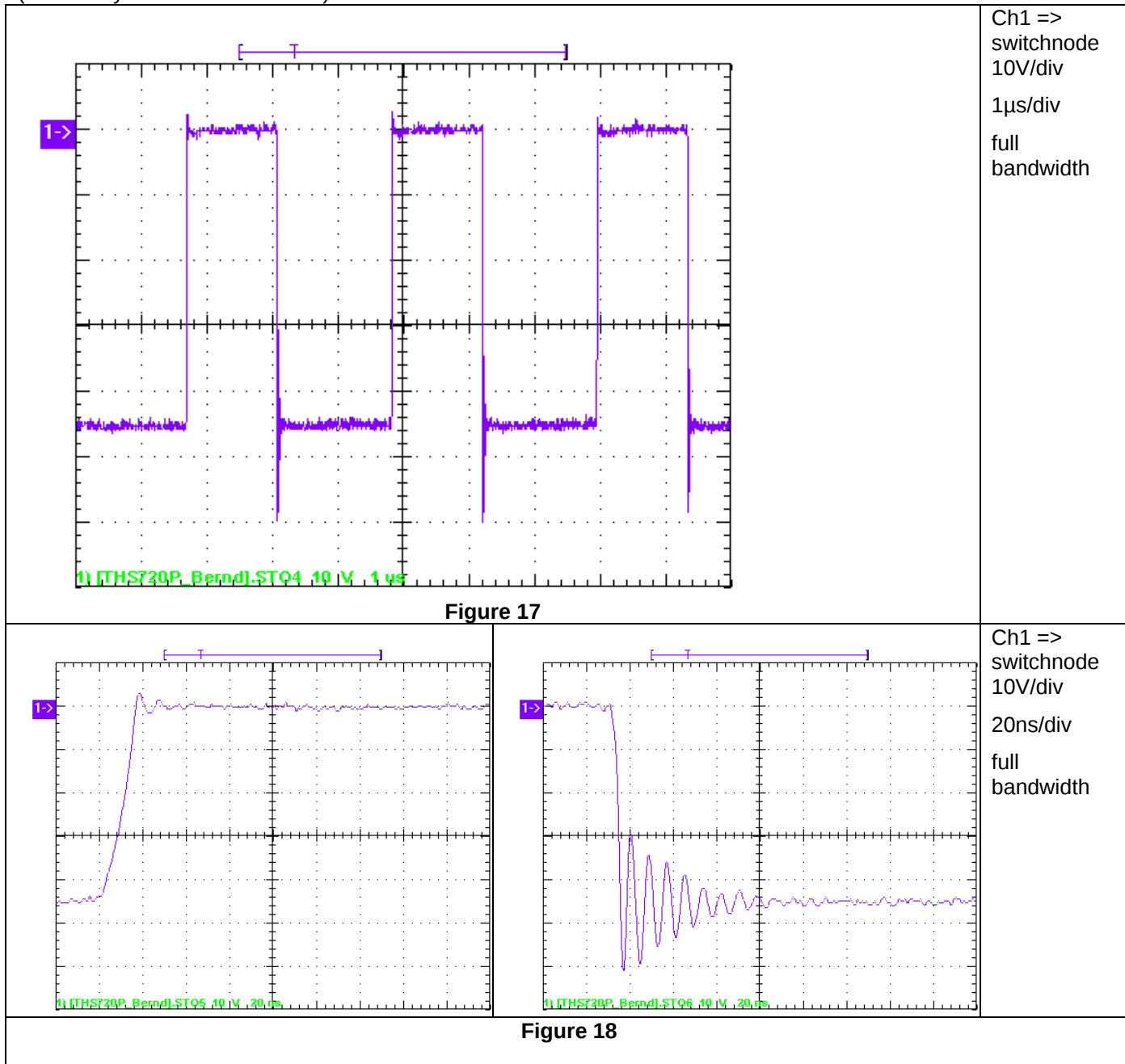
PMP5657RevB-26V Test Results

With 1.6A load results in the waveforms shown in Figure 15. 21V were applied to the input (Primary).



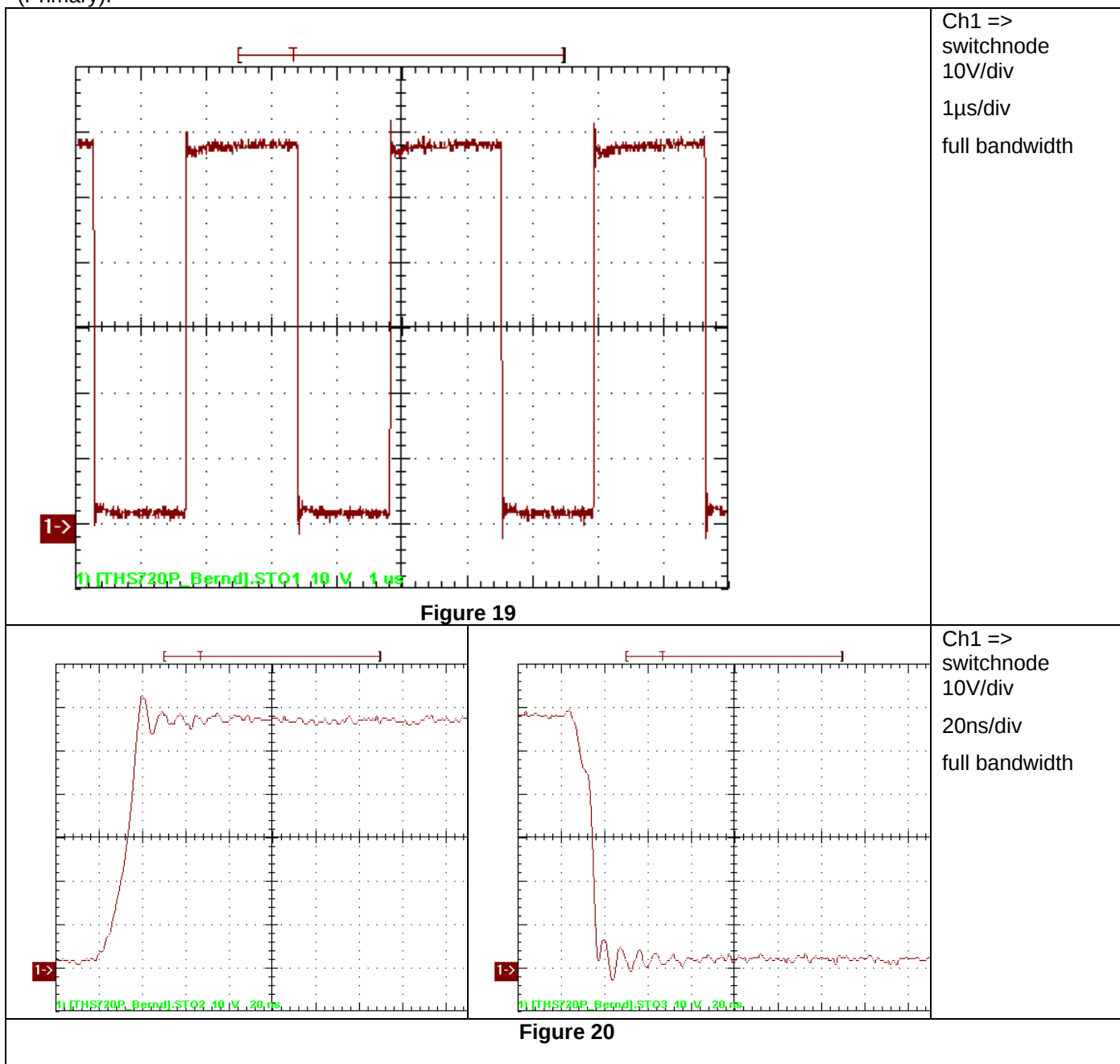
PMP5657RevB-26V Test Results

With 1.6A load results in the waveforms shown in Figure 17. 21V were applied to the input (secondary referenced to VOUT).



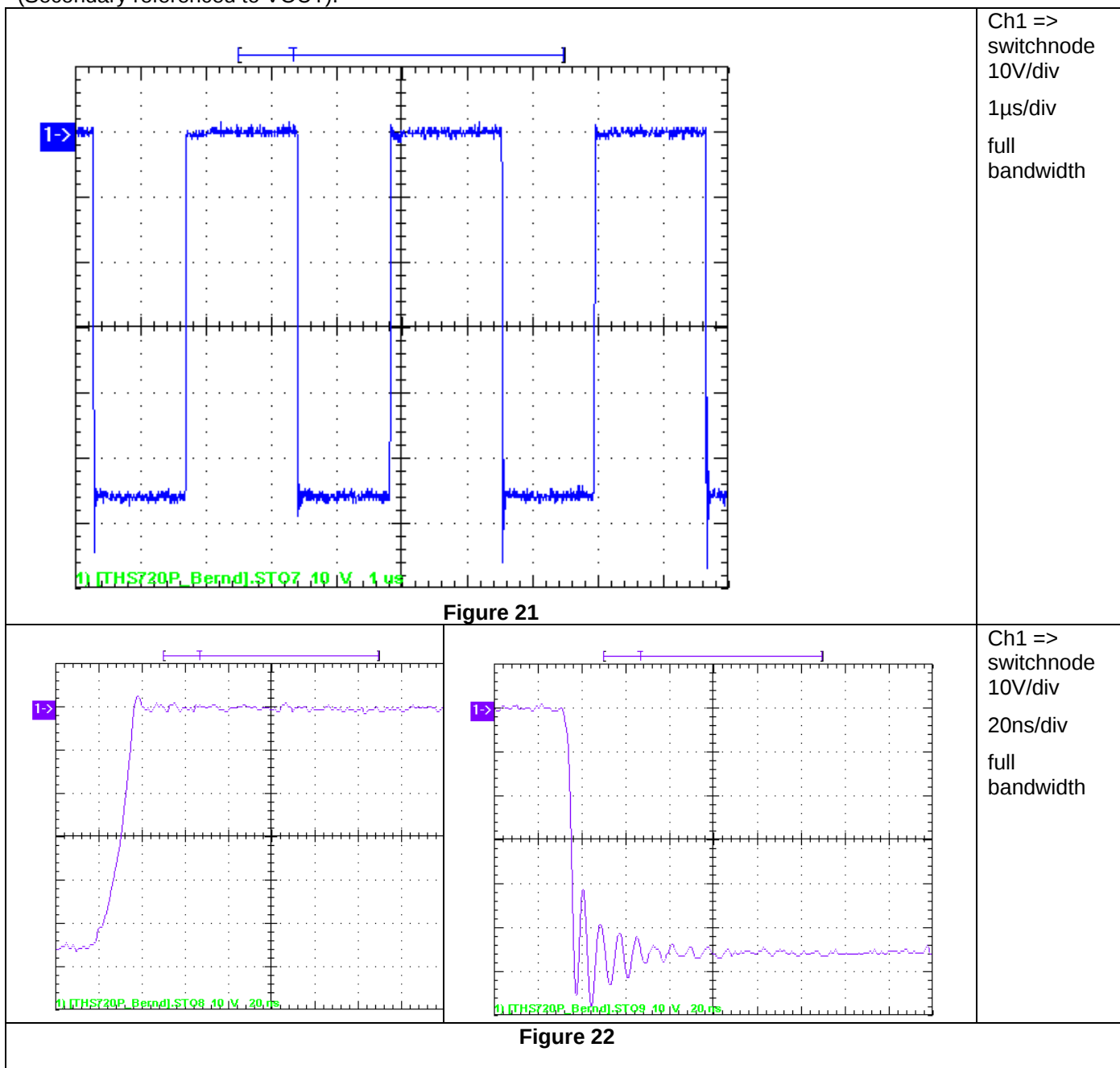
PMP5657RevB-26V Test Results

With 1.6A load results in the waveforms shown in Figure 19. 32V were applied to the input (Primary).



PMP5657RevB-26V Test Results

With 1.6A load results in the waveforms shown in Figure 19. 32V were applied to the input (Secondary referenced to VOUT).



7 Ripple Voltages

The output ripple voltage is displayed in Figure 23. The input voltage was set to 10V with output current 1.6A.

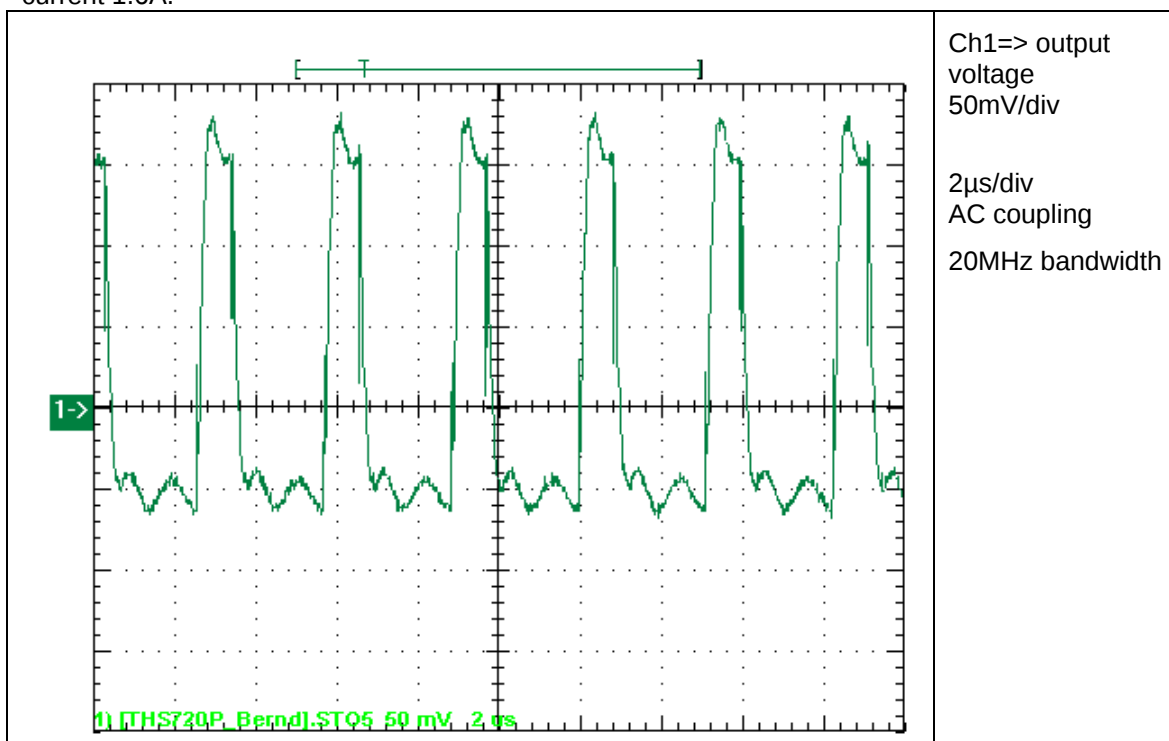


Figure 23

The output ripple voltage is displayed in Figure 24. The input voltage was set to 21V with output current 1.6A.

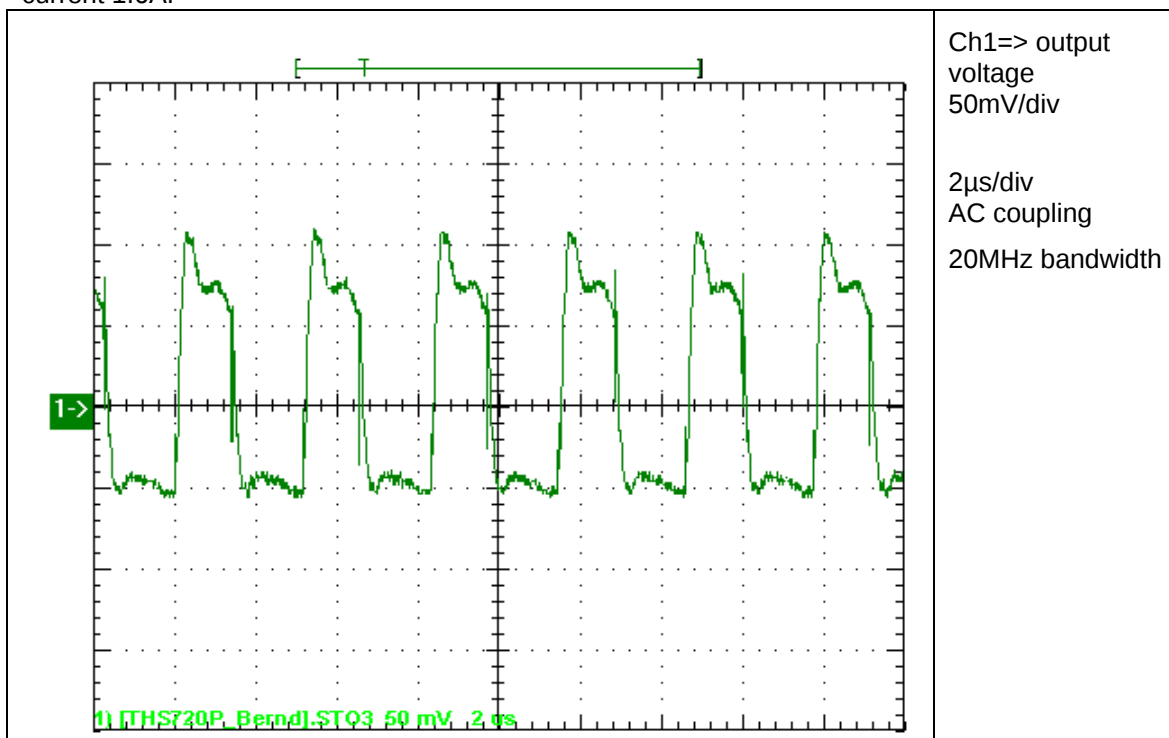


Figure 24

The output ripple voltage is displayed in Figure 25. The input voltage was set to 32V with output current 1.6A.

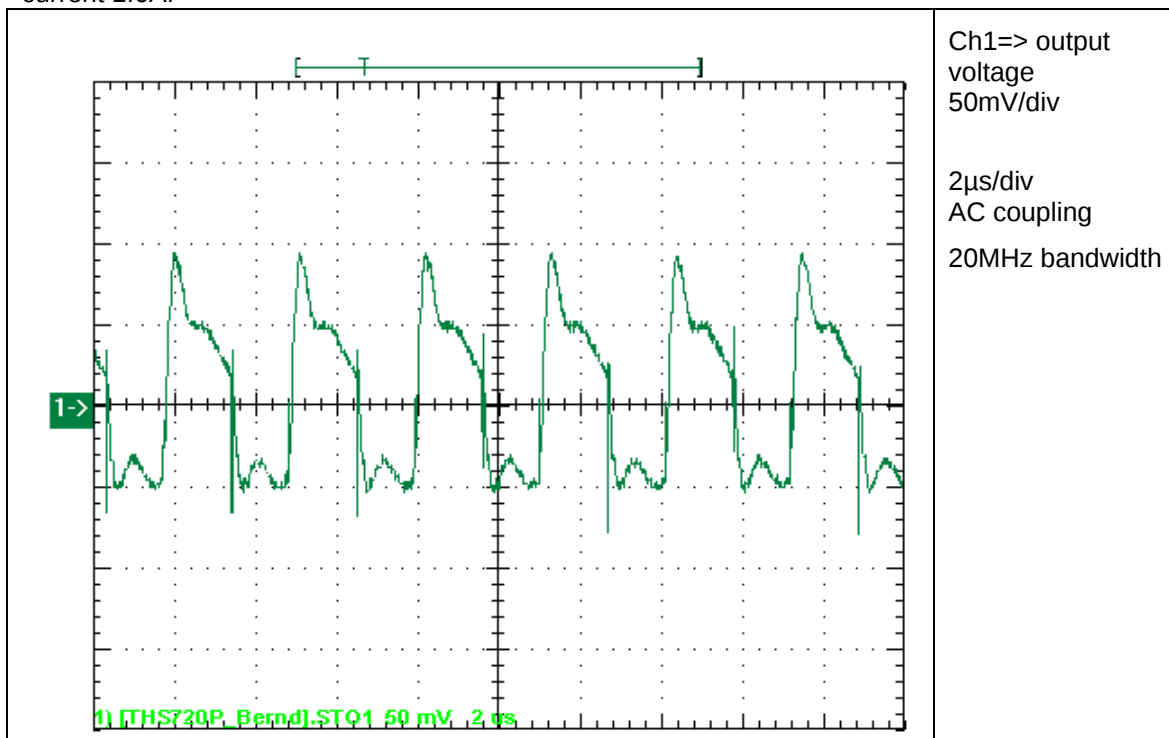


Figure 25

The **input** ripple voltage is displayed in Figure 26. The input voltage was set to 10V, 21V and 32V with output current 1.6A.

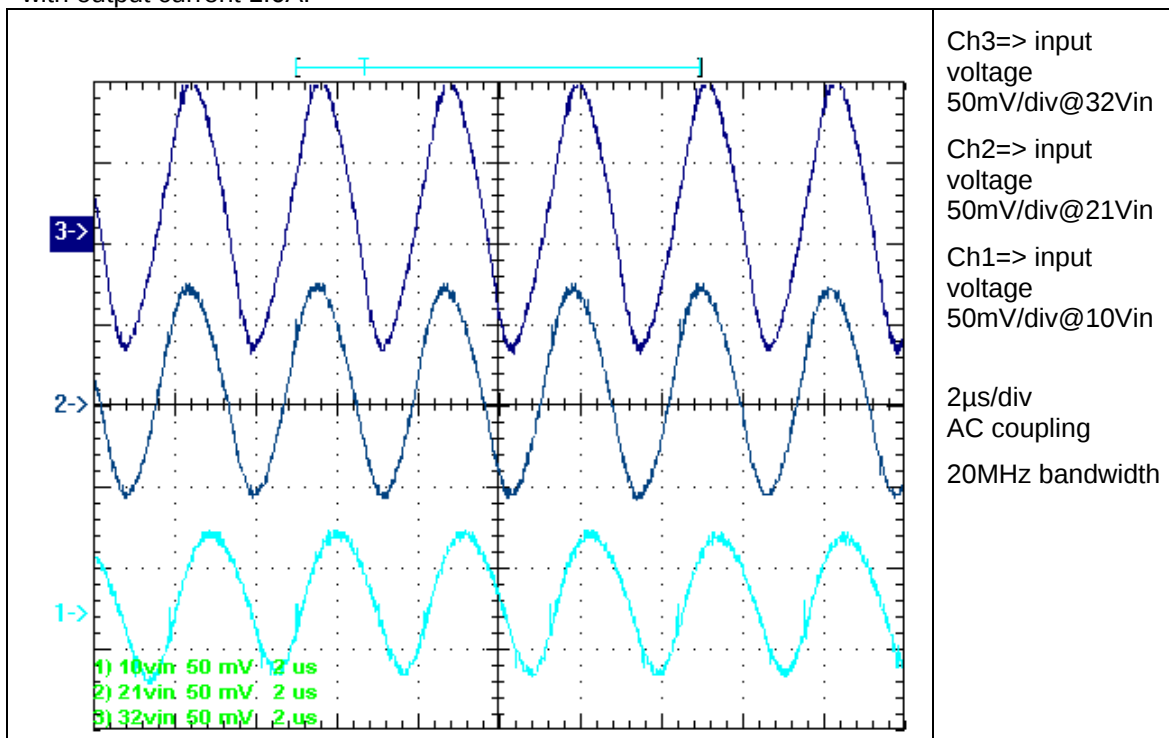
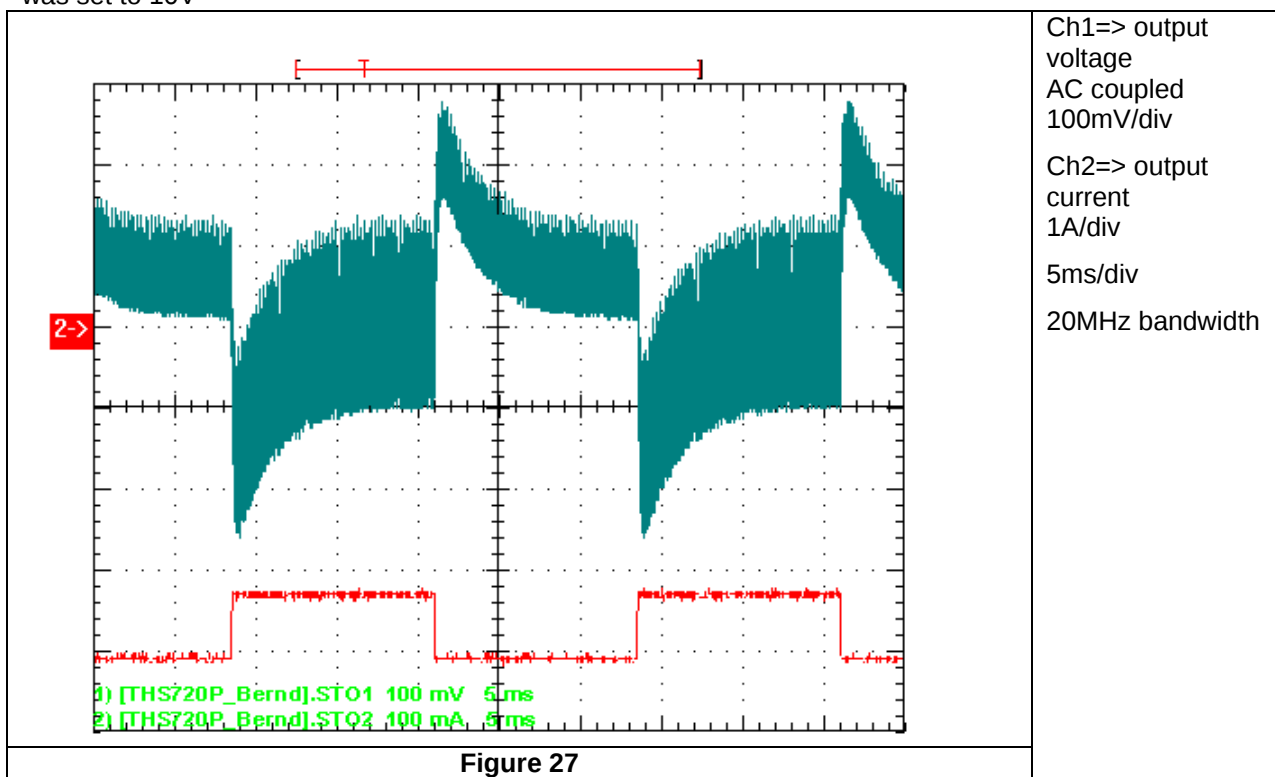


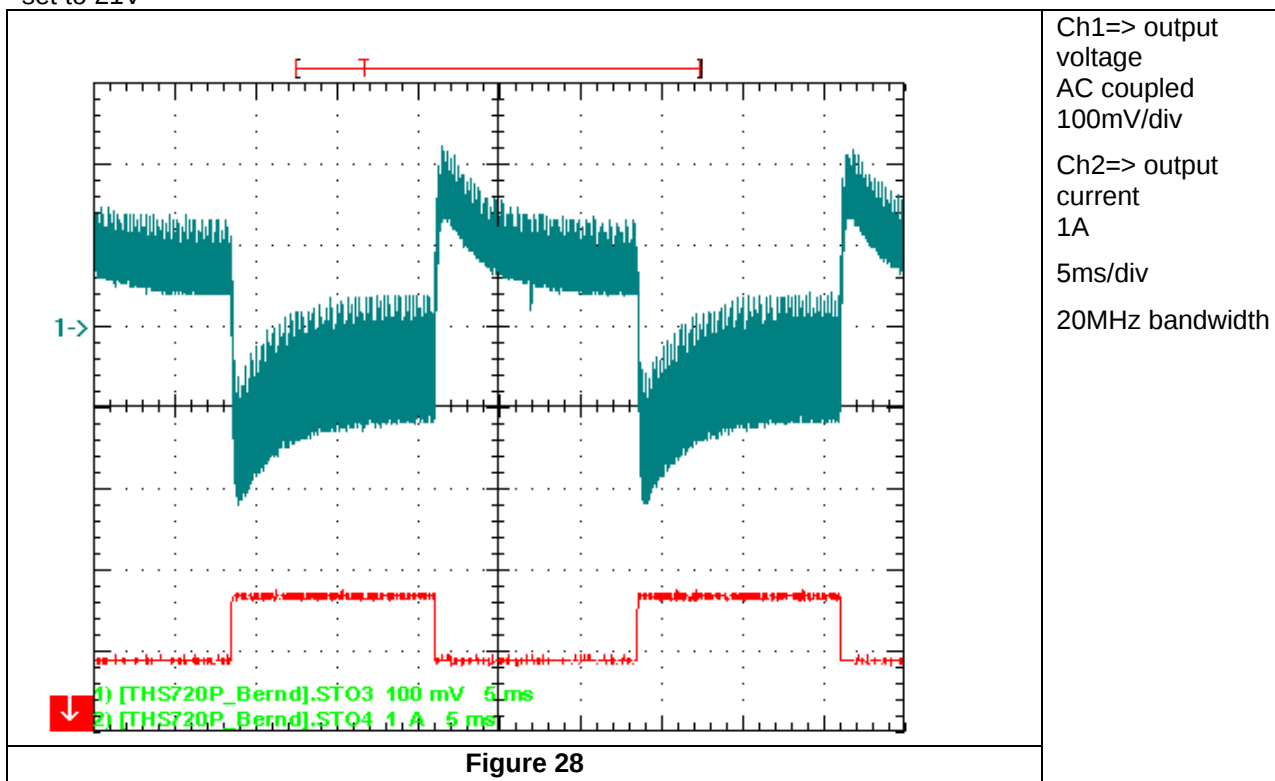
Figure 26

8 Load Transients

A output current change from 0.8A to 1.6A (40Hz) results in following Figure 27. The input voltage was set to 10V

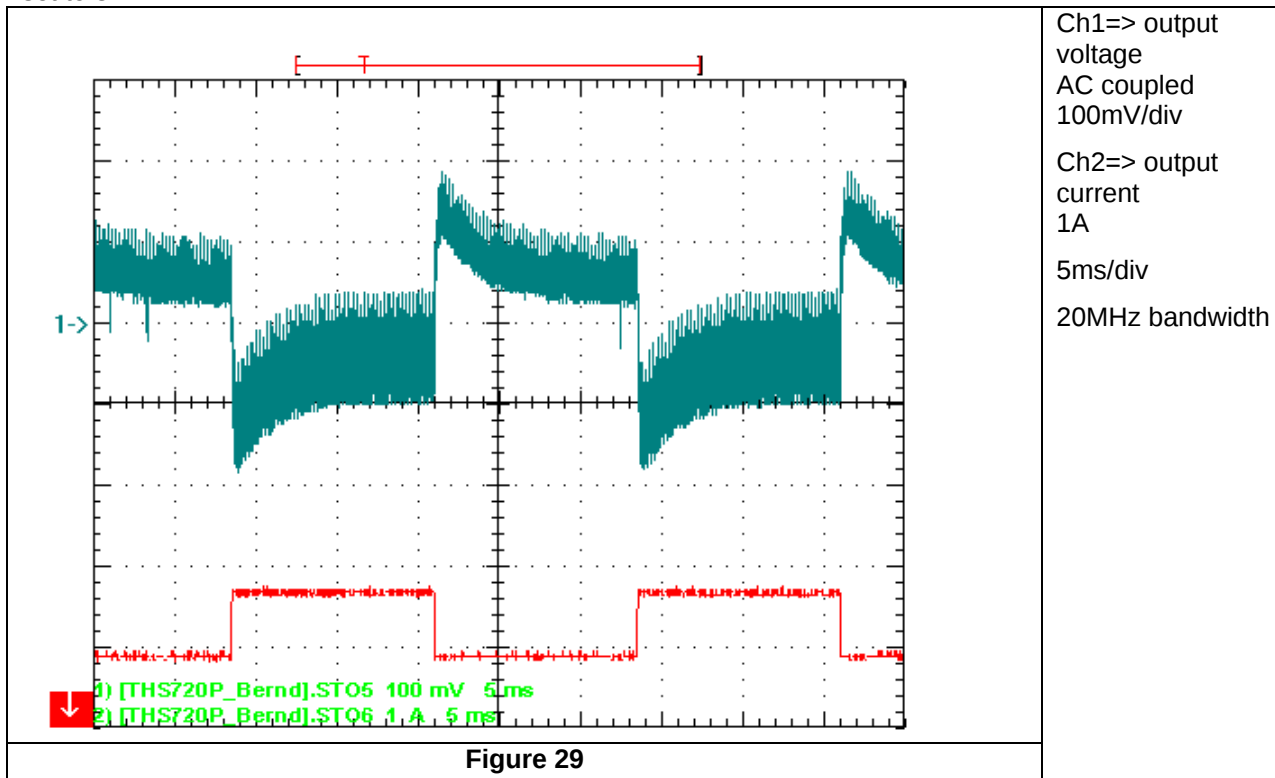


A output current change from 0.8A to 1.6A results in following Figure 28. The input voltage was set to 21V



PMP5657RevB-26V Test Results

A output current change from 0.8A to 1.6A results in following Figure 29. The input voltage was set to 32V



9 Control Loop Frequency Response

The control loop frequency response with 1.6A load and 10V input voltage is shown in Figure 30

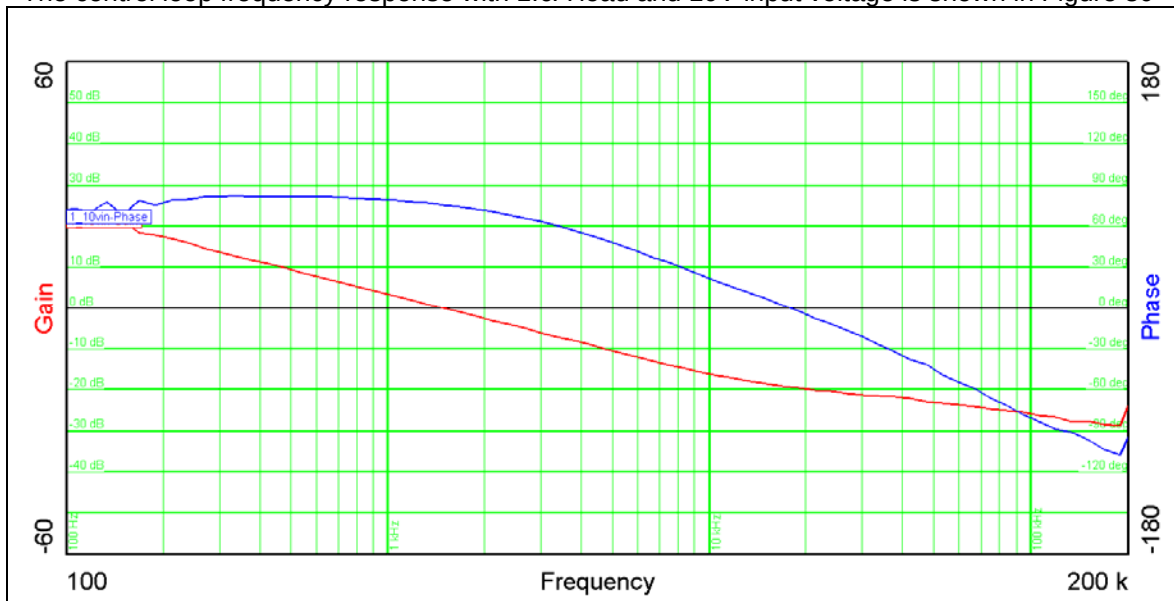


Figure 30

The control loop frequency response with 1.6A load and 21V input voltage is shown in Figure 31

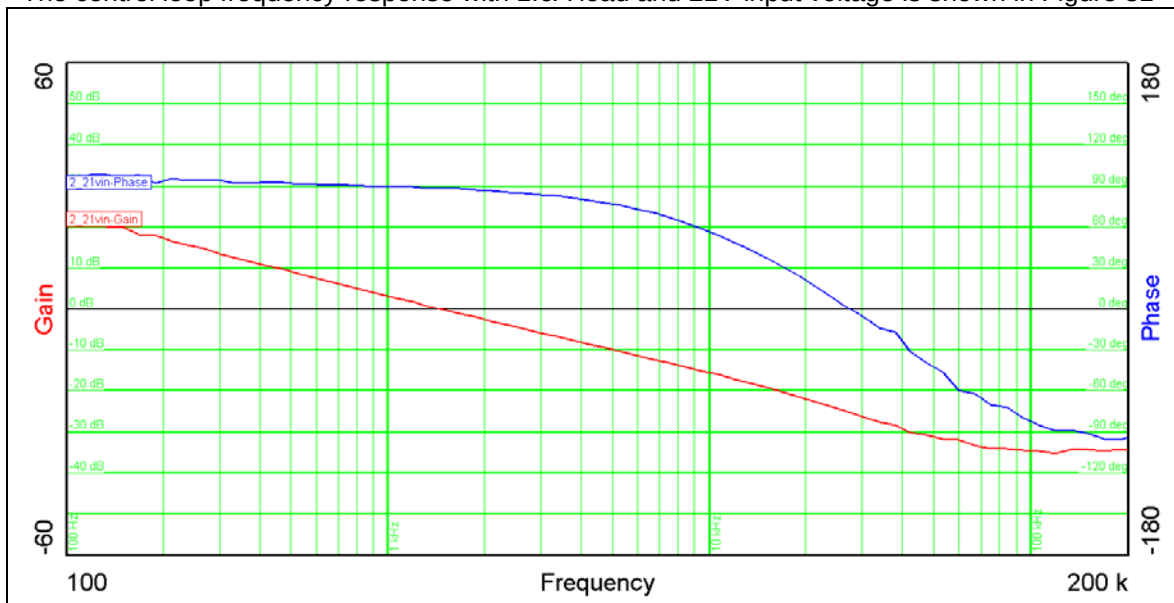


Figure 31

PMP5657RevB-26V Test Results

The control loop frequency response with 1.6A load and 32V input voltage is shown in Figure 32

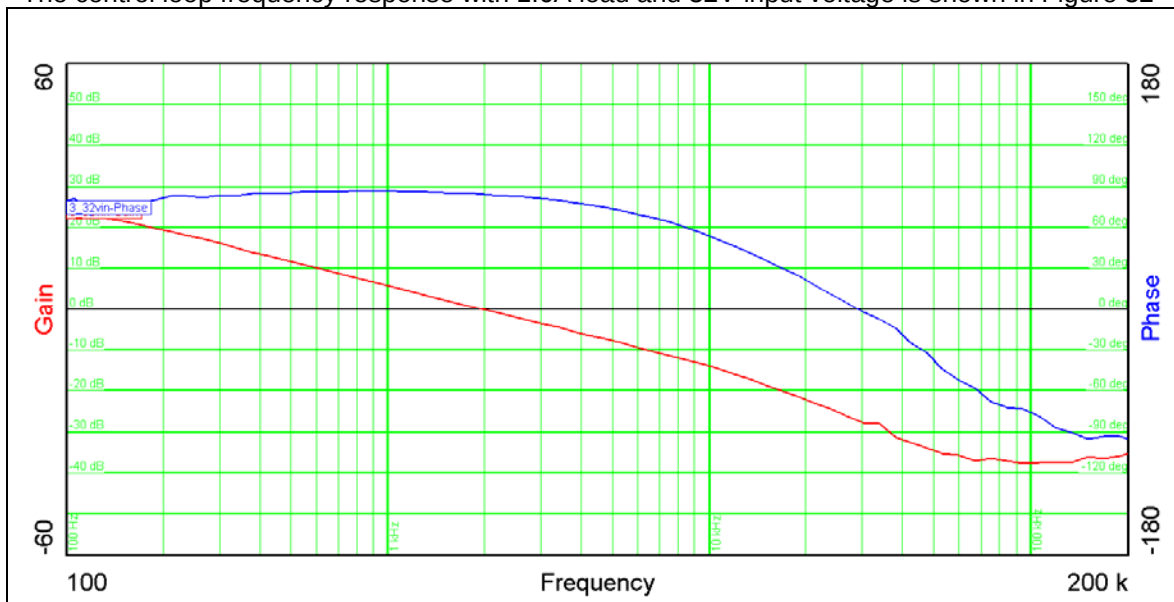


Figure 32

Table 1 summarizes the results.

Vin	10V	21V	32V
Bandwidth (kHz)	1.5	1.47	1.97
Phase margin	75.5°	88°	84.2°
slope (20dB/decade)	-0.97	-0.99	-0.99
gain margin (dB)	-19.3	-25	-27.3
slope (20dB/decade)	-0.458	-1.32	-1.71
freq (kHz)	17.6	27	28.7

Table 1

PMP5657RevB-26V Test Results

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