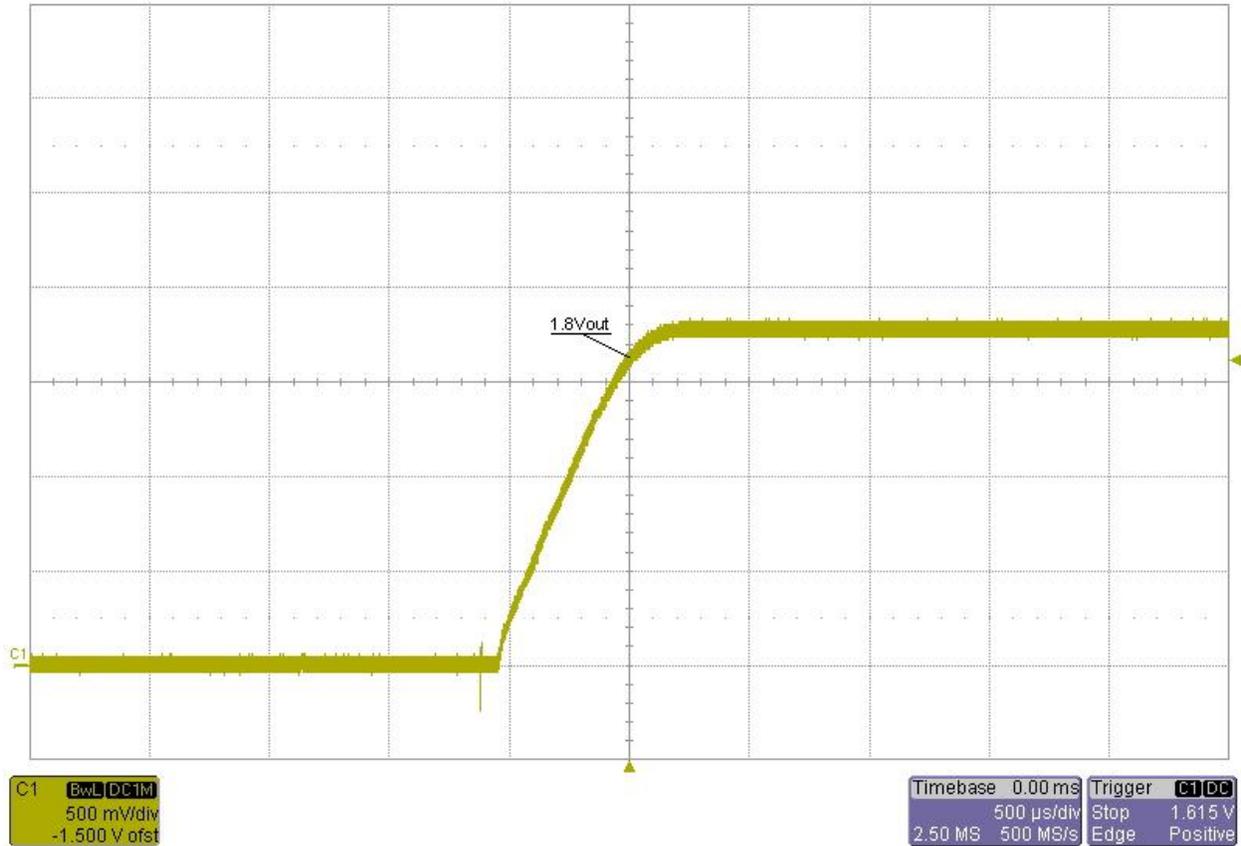


1 Startup

1.1 1.8Vout:

Input voltage = 5VDC

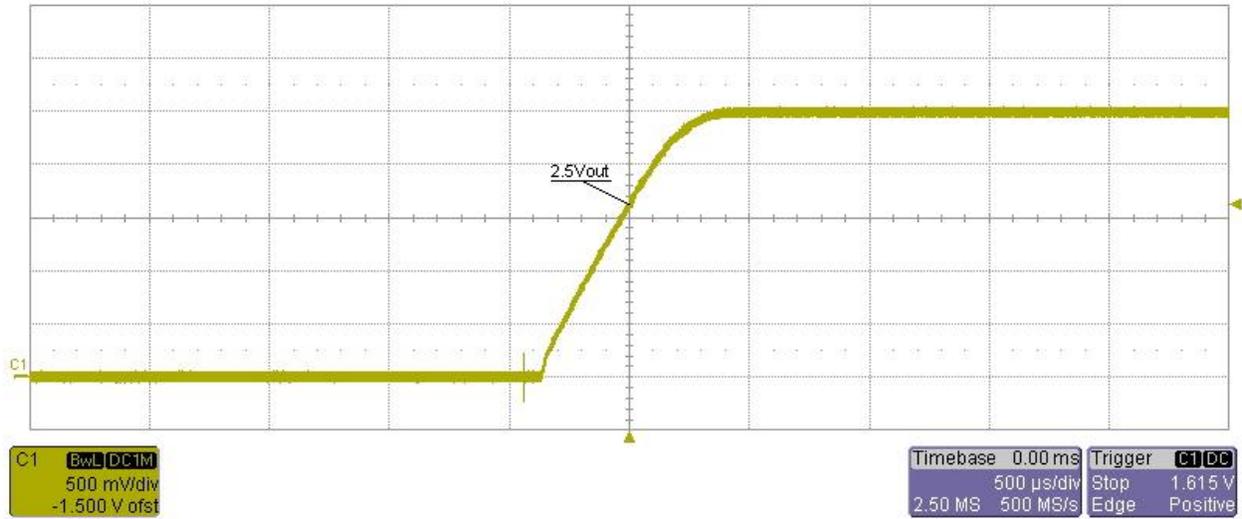
Load current = full load (1.0A)



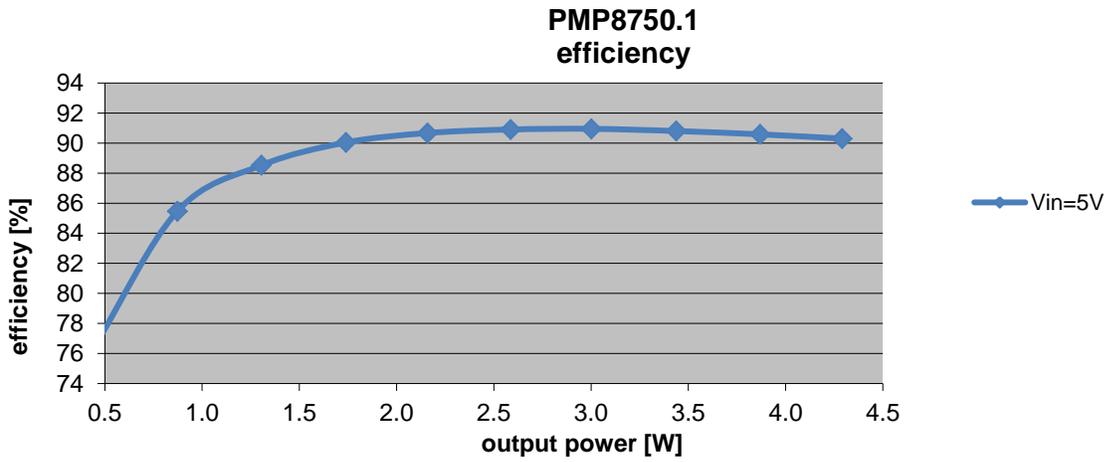
1.2 2.5Vout:

Input voltage = 5VDC

Load current = full load (1.0A)

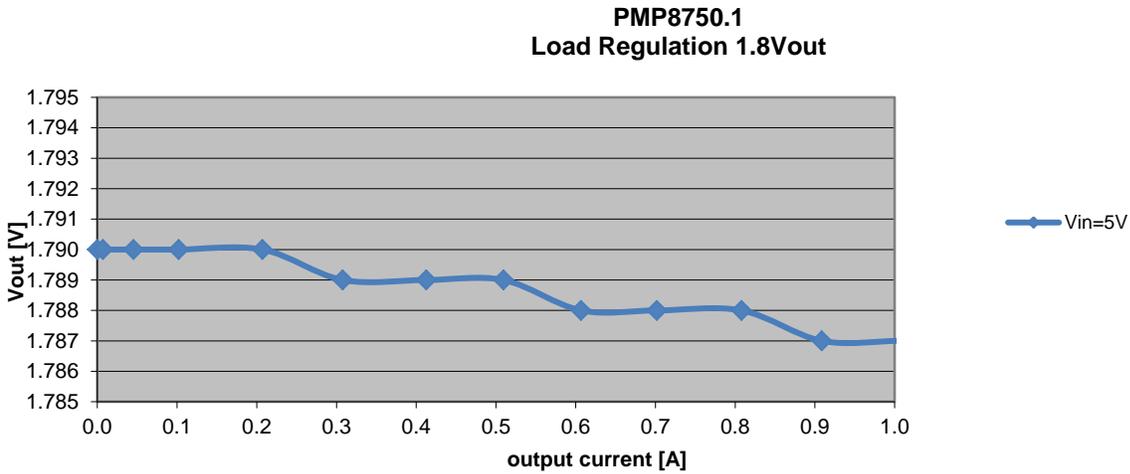


2 Efficiency

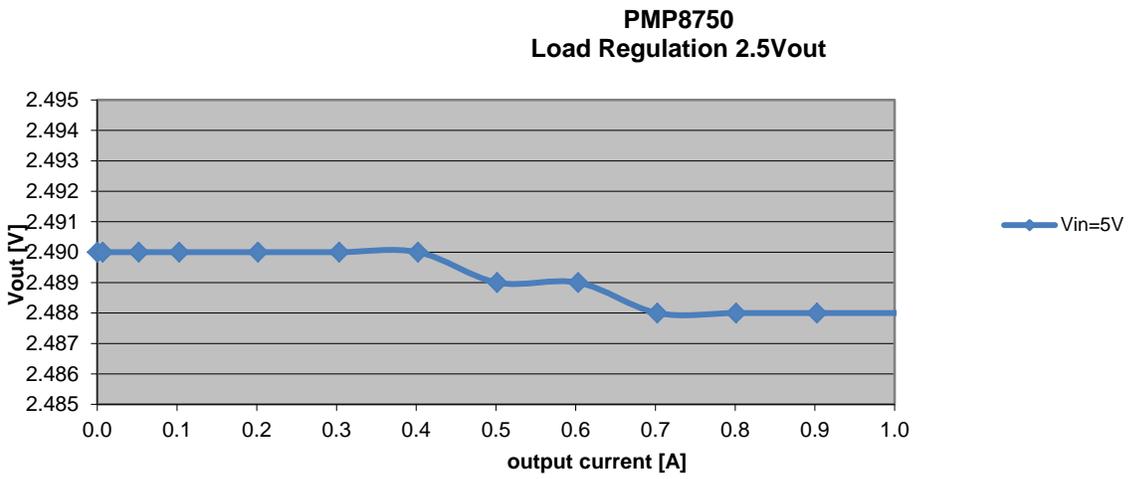


3 Load regulation

3.1 1.8Vout:

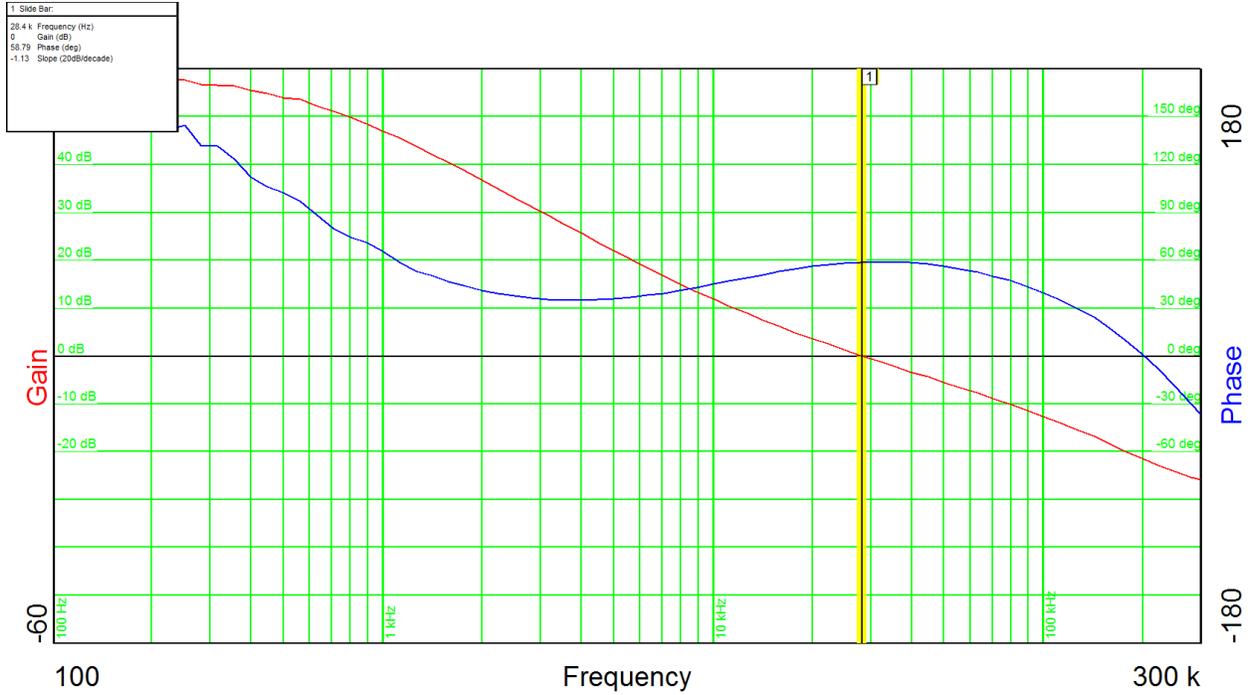


3.2 2.5Vout:



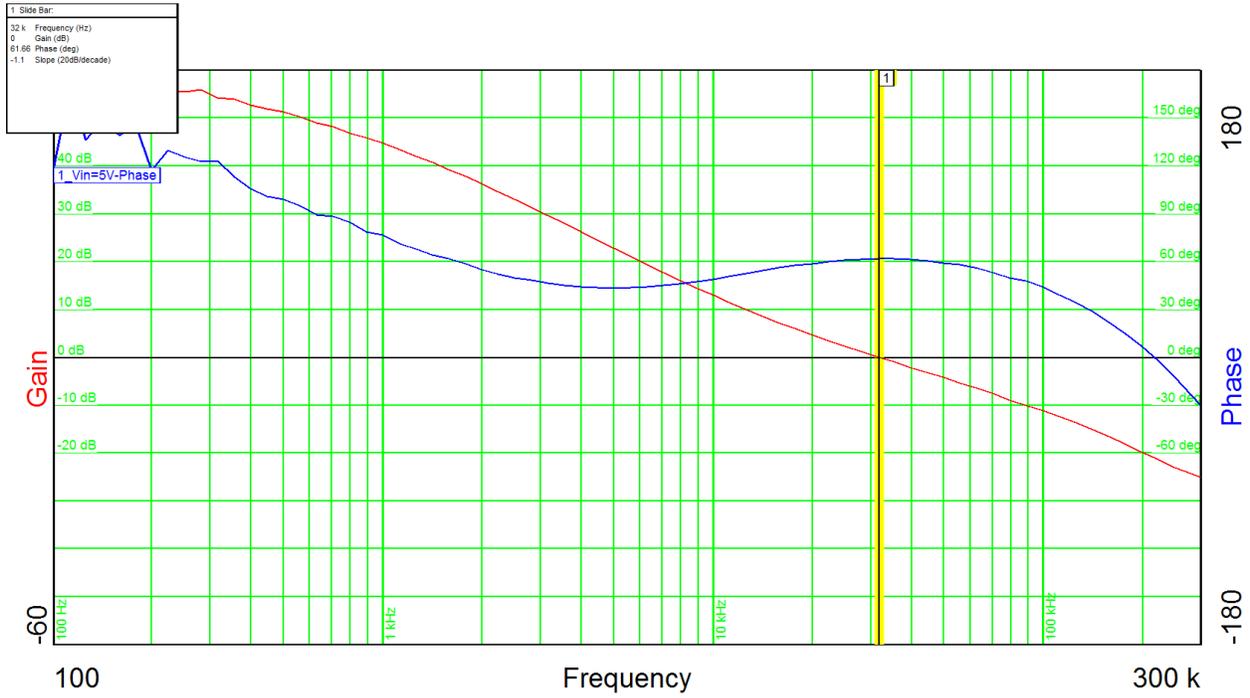
4 Control Loop Frequency Response

4.1 1.8Vout:



Output power = 1.8V@1.0A
 Input voltage = 5VDC
 Phase margin = 59°
 Bandwidth = 28.4kHz

4.2 2.5Vout:

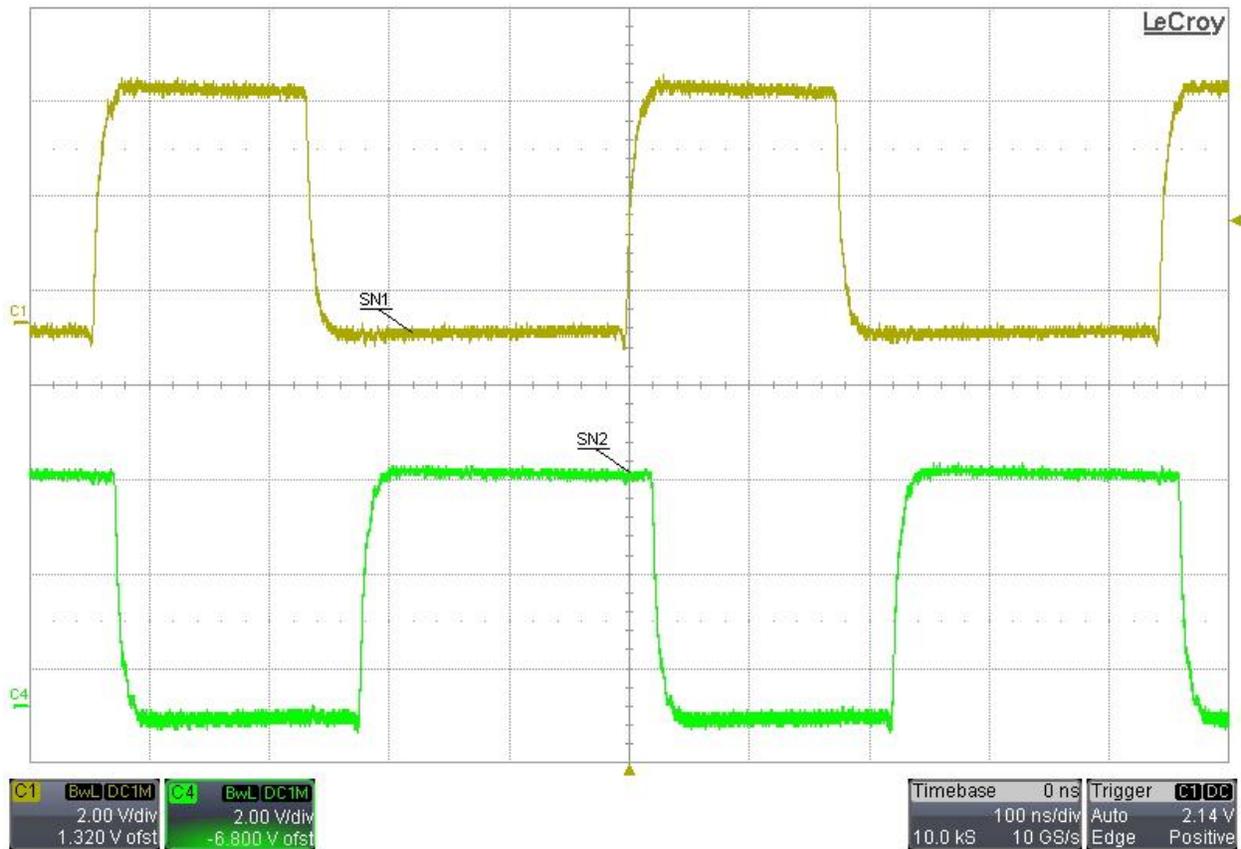


Output power = 2.5V@1.0A
 Input voltage = 5VDC
 Phase margin = 62°
 Bandwidth = 32.0kHz

5 Switch Nodes

Input voltage = 5VDC

Load current = full load (1.8V@1.0A / 2.5V@1.0A)

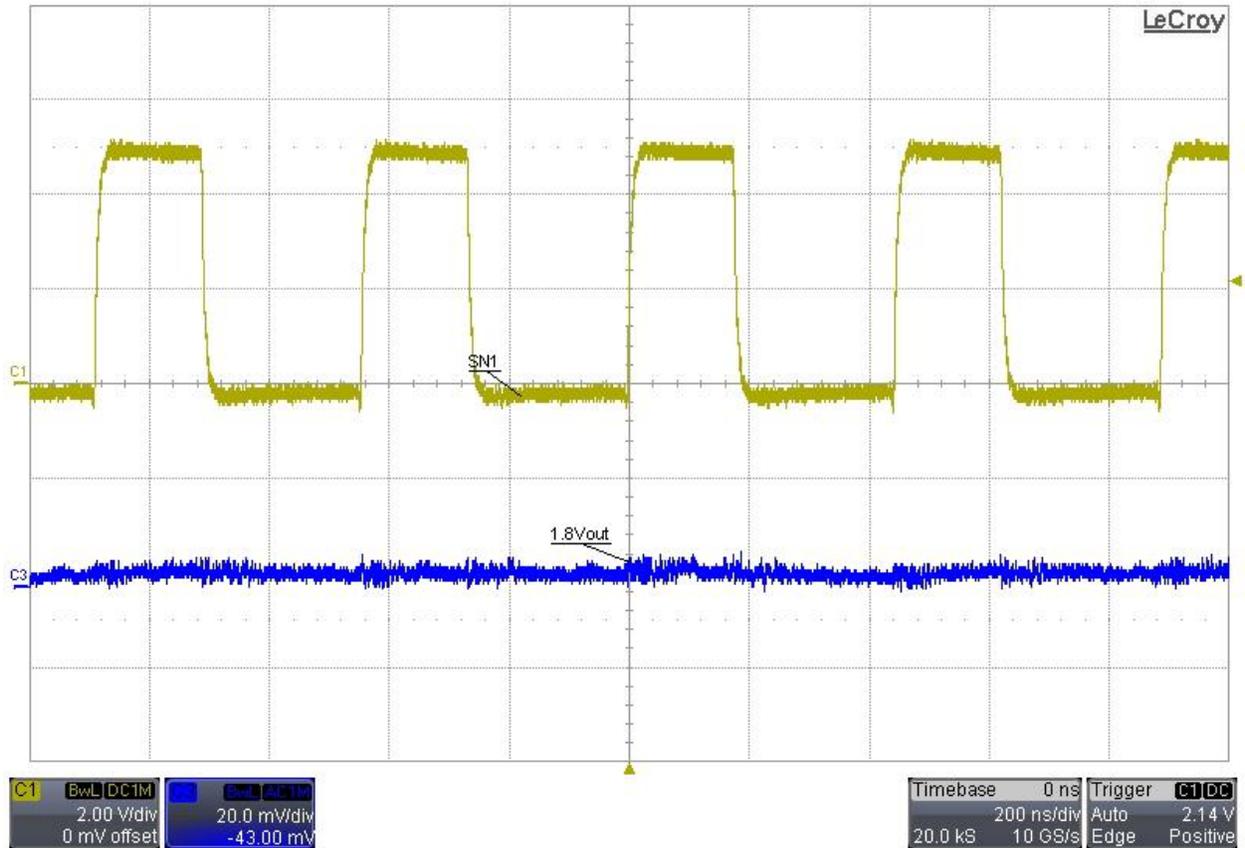


6 Output ripple voltage

6.1 1.8Vout:

Input voltage = 5VDC

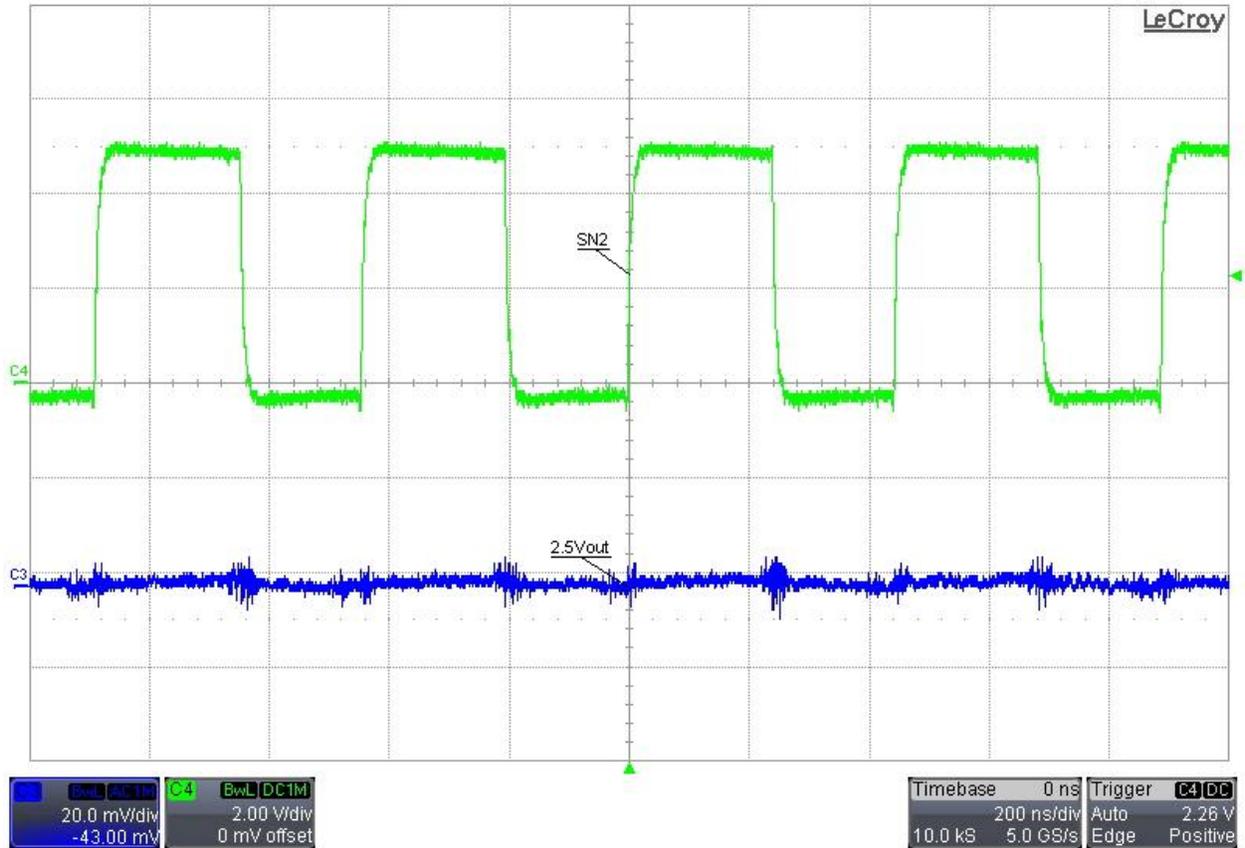
Load current = full load (1.0A)



6.2 2.5Vout:

Input voltage = 5VDC

Load current = full load (1.0A)

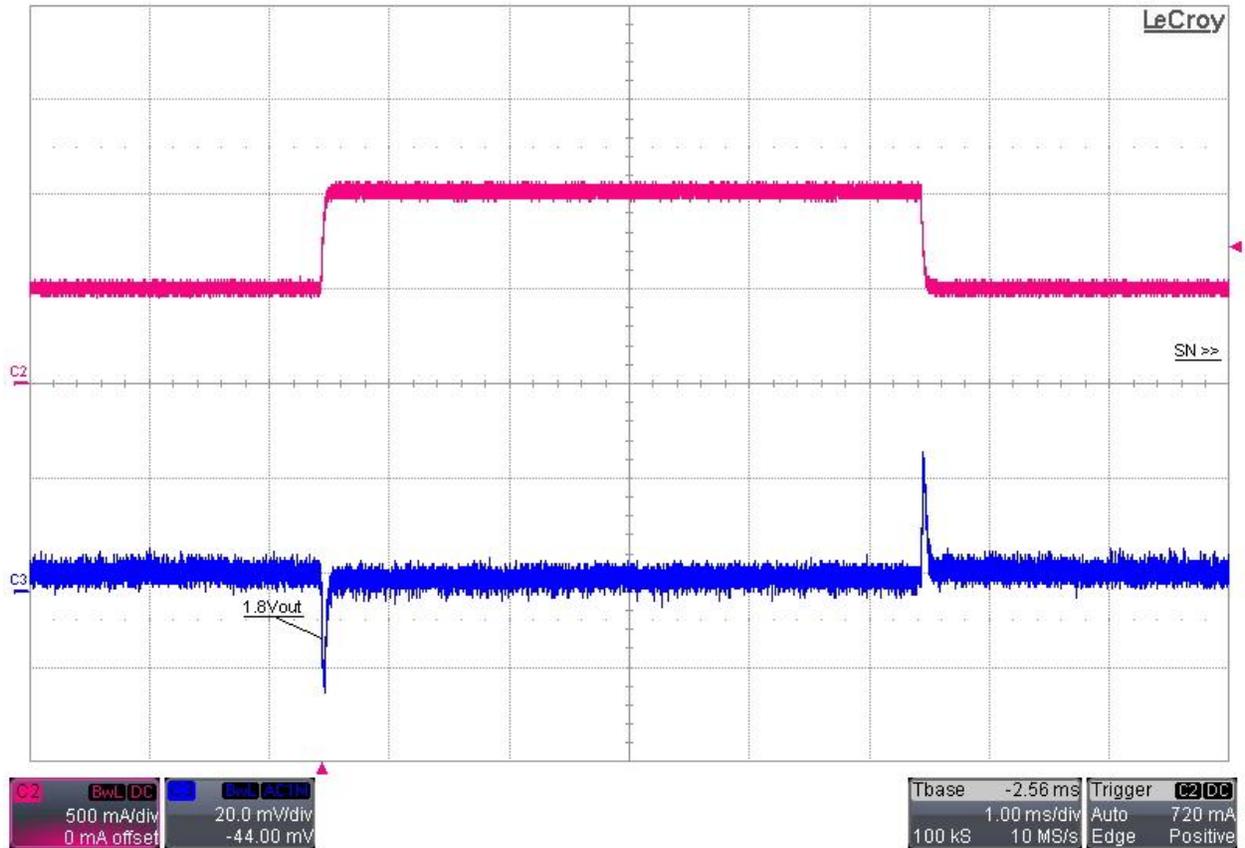


7 Load Transients

7.1 1.8Vout:

Input voltage = 5VDC

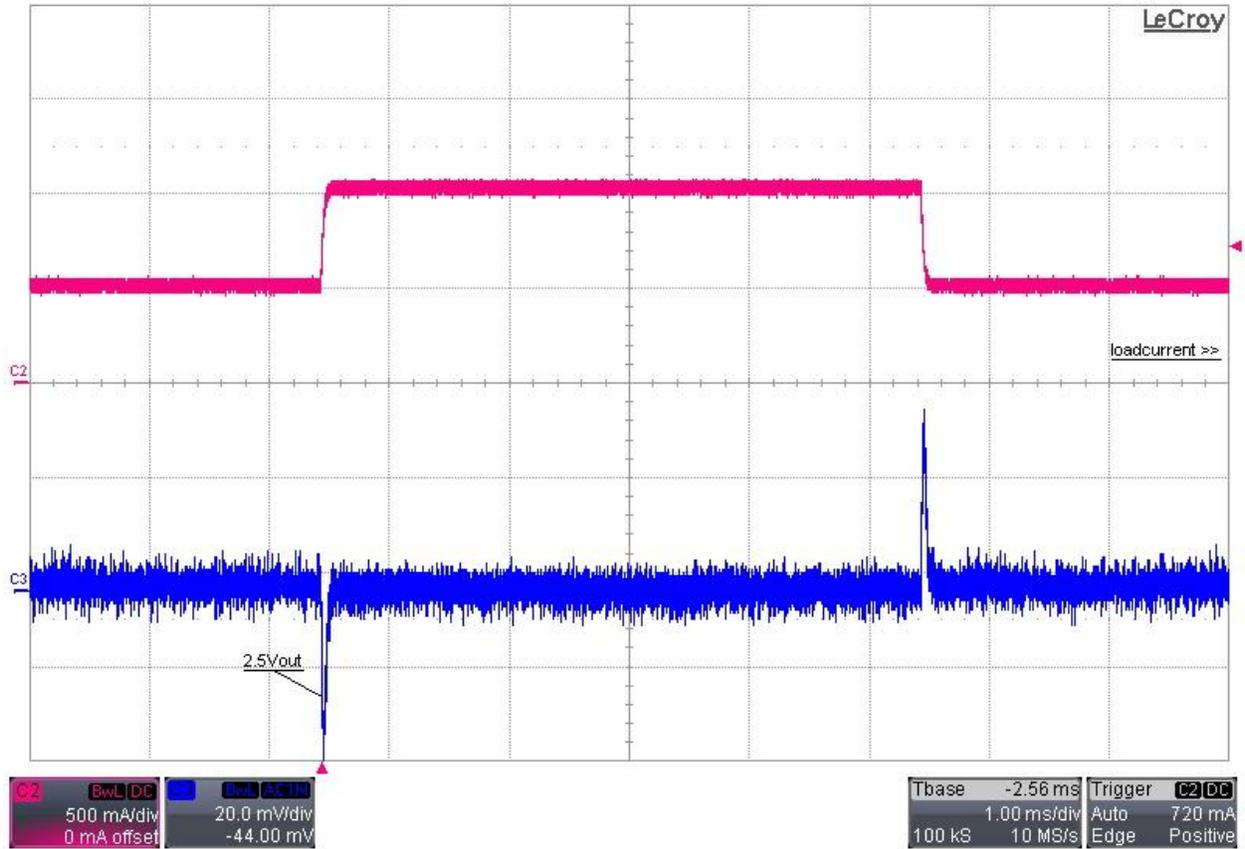
Load current = 0.5A to 1.0A



7.2 2.5Vout:

Input voltage = 5VDC

Load current = 0.5A to 1.0A



IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (<https://www.ti.com/legal/termsofsale.html>) or other applicable terms available either on [ti.com](https://www.ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2021, Texas Instruments Incorporated