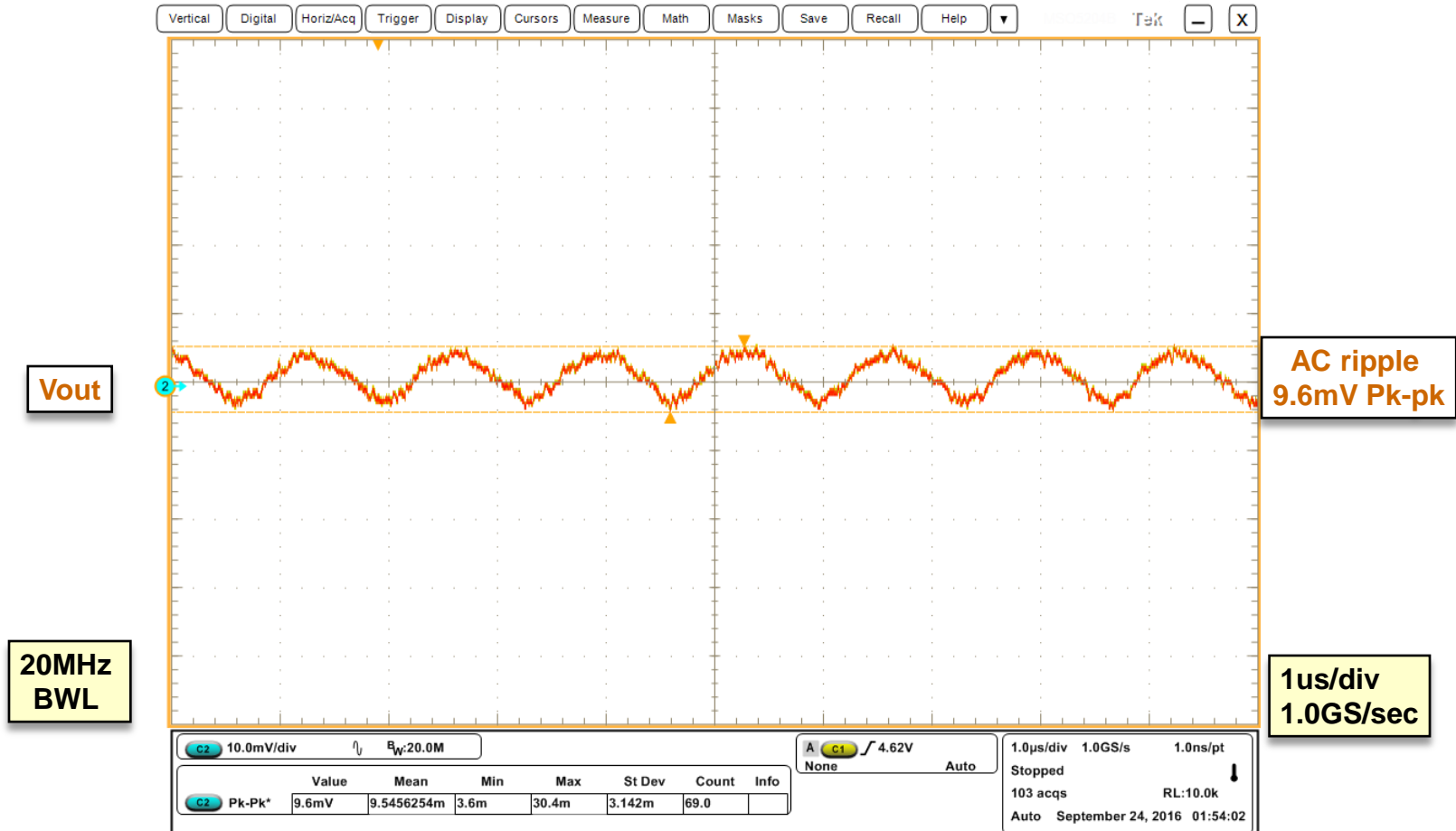


# Test Results of EV-105 board iPOL Regulators

PoL Team  
9/23/2016

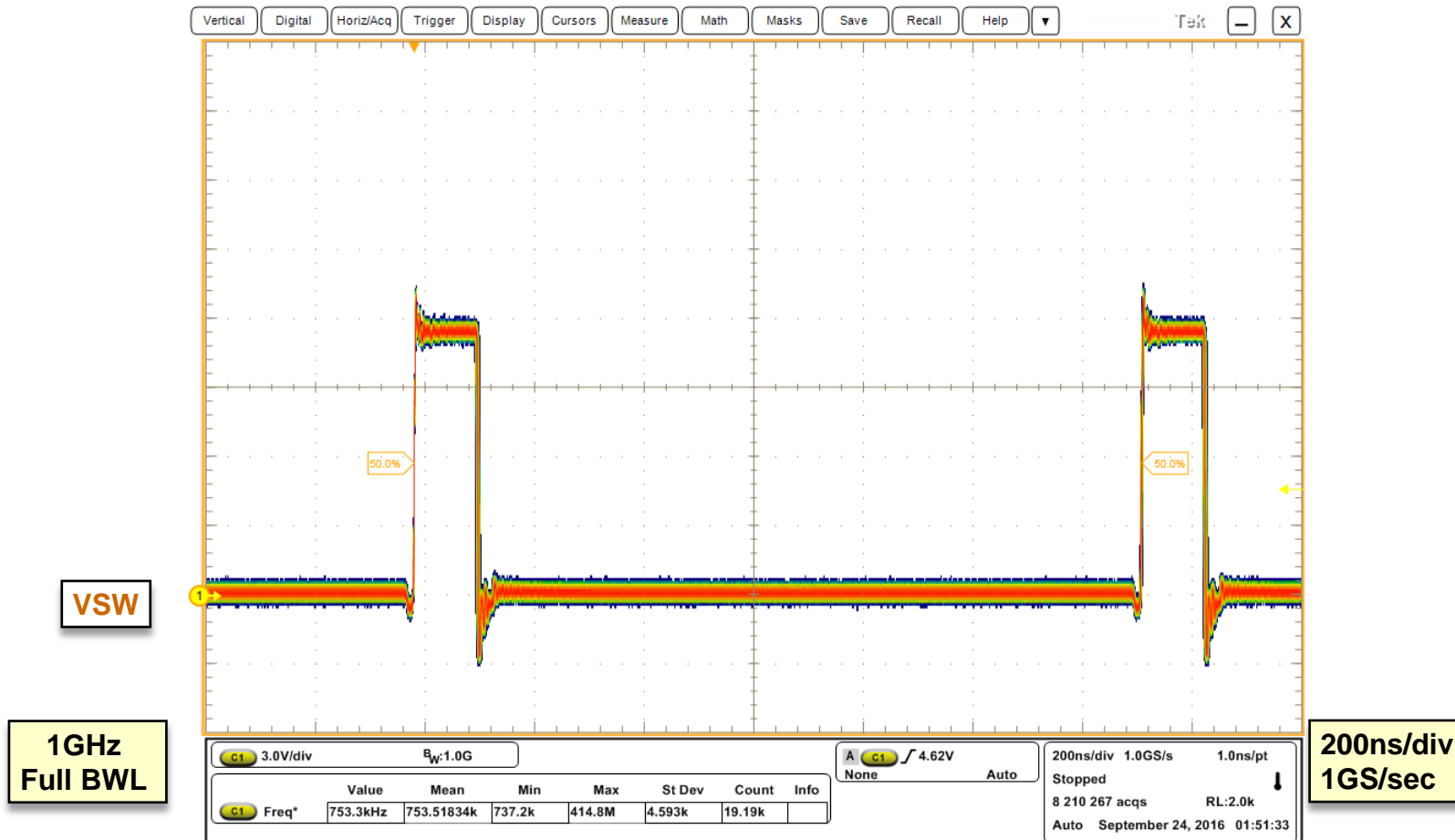


# IR38063-V0P95 rail AC output ripple at 25A load



## Output Voltage Ripple, 25A load

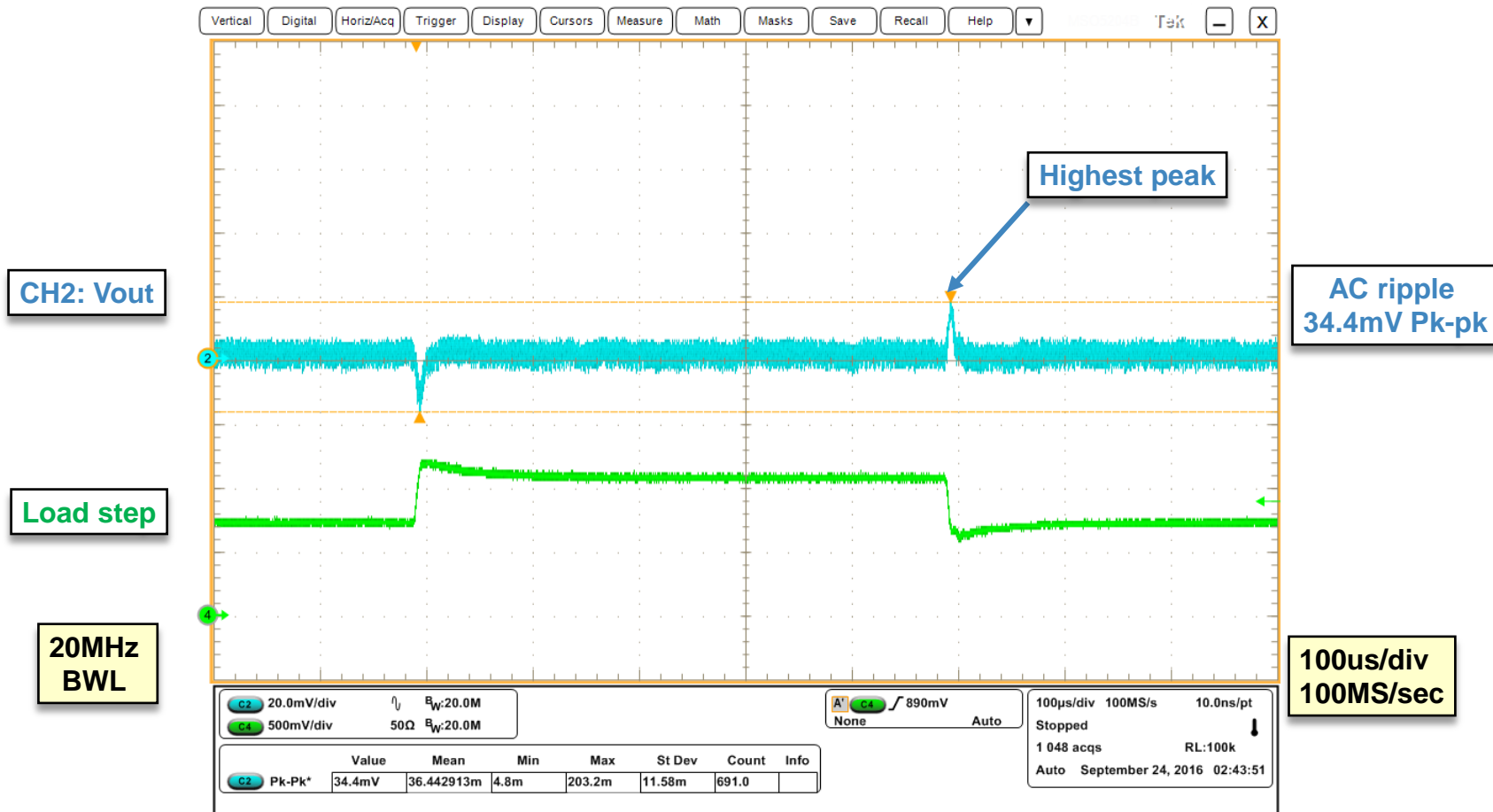
# IR38063-V0P95 rail VSW node at 750kHz with Persistence



## VSW node at 25A load

# IR38063-V0P95 Transient Response 34.4mV

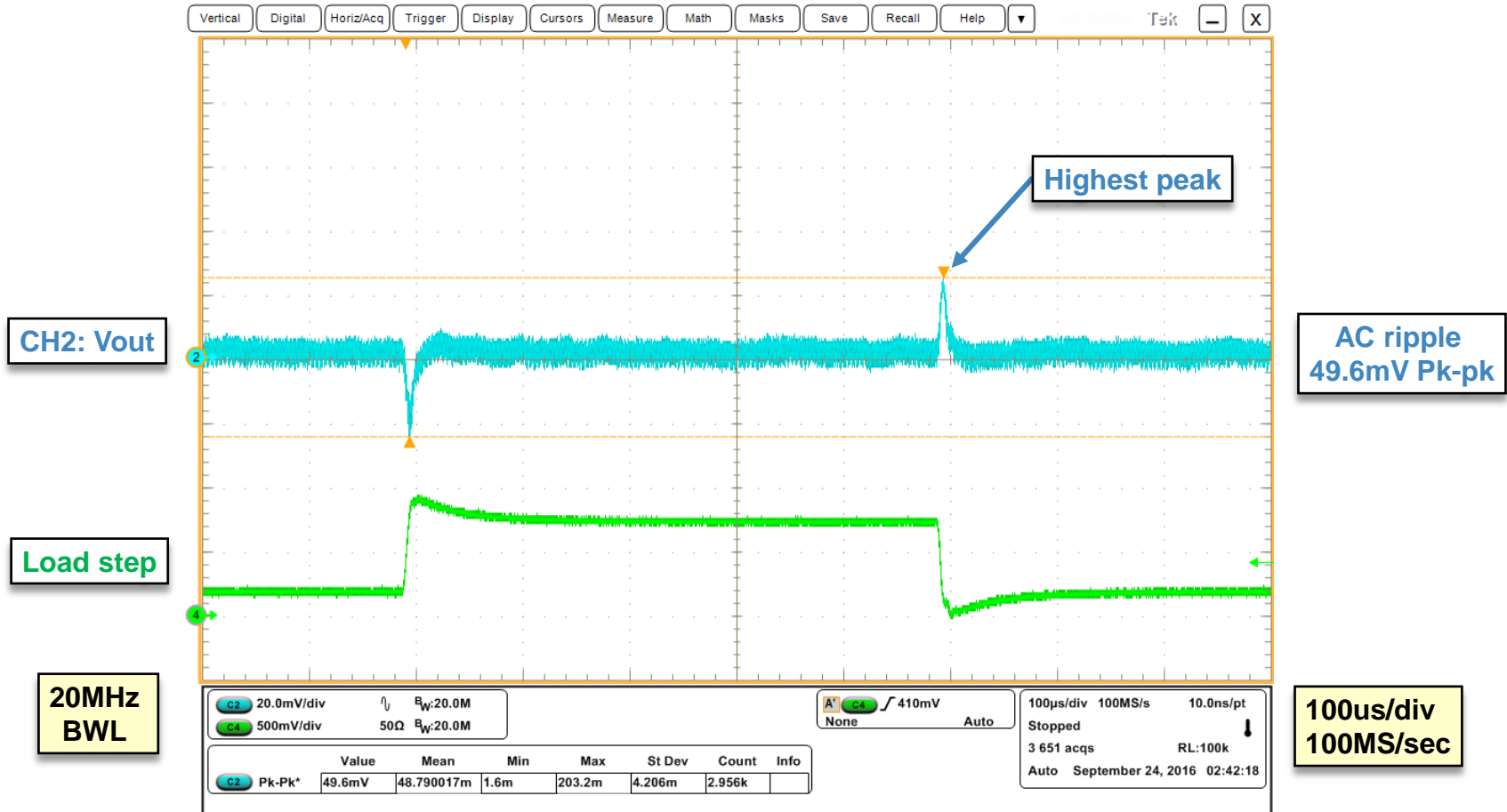
Load step of 4.8A (10A <> 14.8A) with di/dt (2.5A/us)



## Transient Response, 10A to 14.8A step (2.5A/us)

# IR38063-V0P95 Transient Response 49.6mV

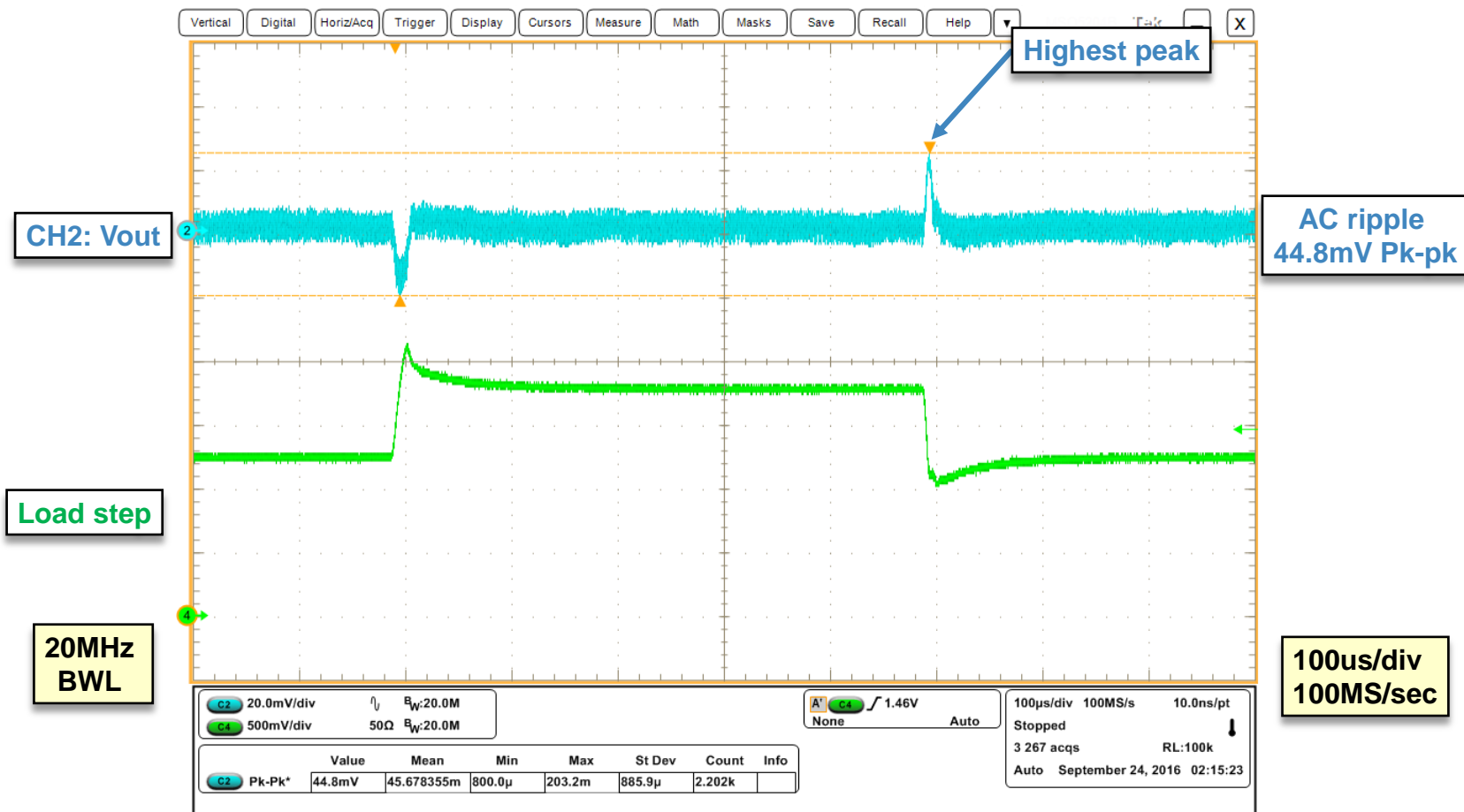
Load step of 7.5A (2.5A <> 10A) with di/dt (2.5A/us)



## Transient Response, 2.5A to 10A step (2.5A/us)

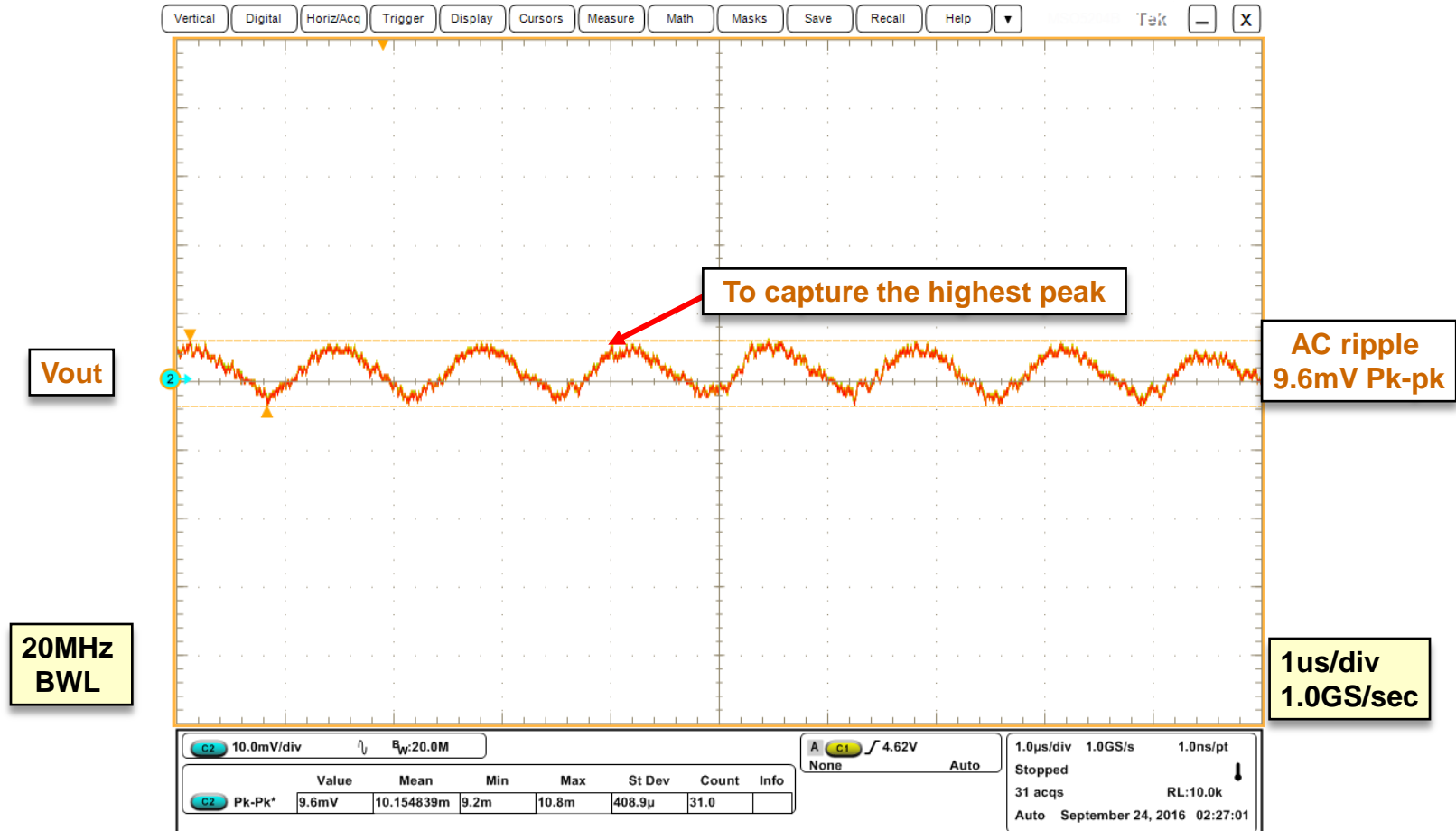
# IR38063-V0P95 Transient Response 44.8mV

Load step of 7.5A (17.5A <> 25A) with di/dt (2.5A/us)



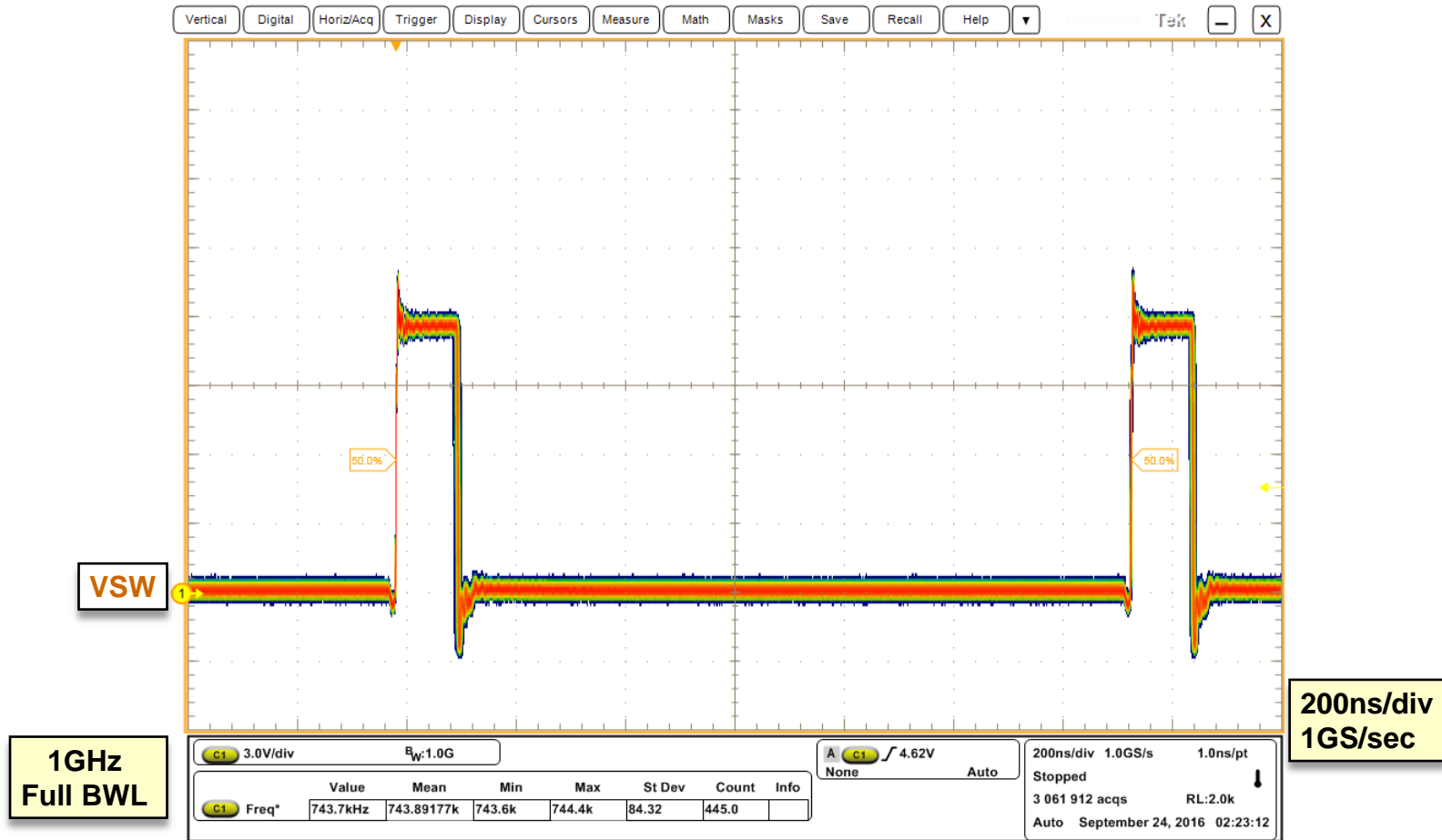
Transient Response, 2.5A to 10A step (2.5A/us)

# IR38062-V0P9 rail AC output ripple at 15A load



Output Voltage Ripple, 15A load Ch<sub>2</sub>:  $V_{out}$

# IR38062-V0P9 rail at 15A VSW node at 750kHz with Persistence

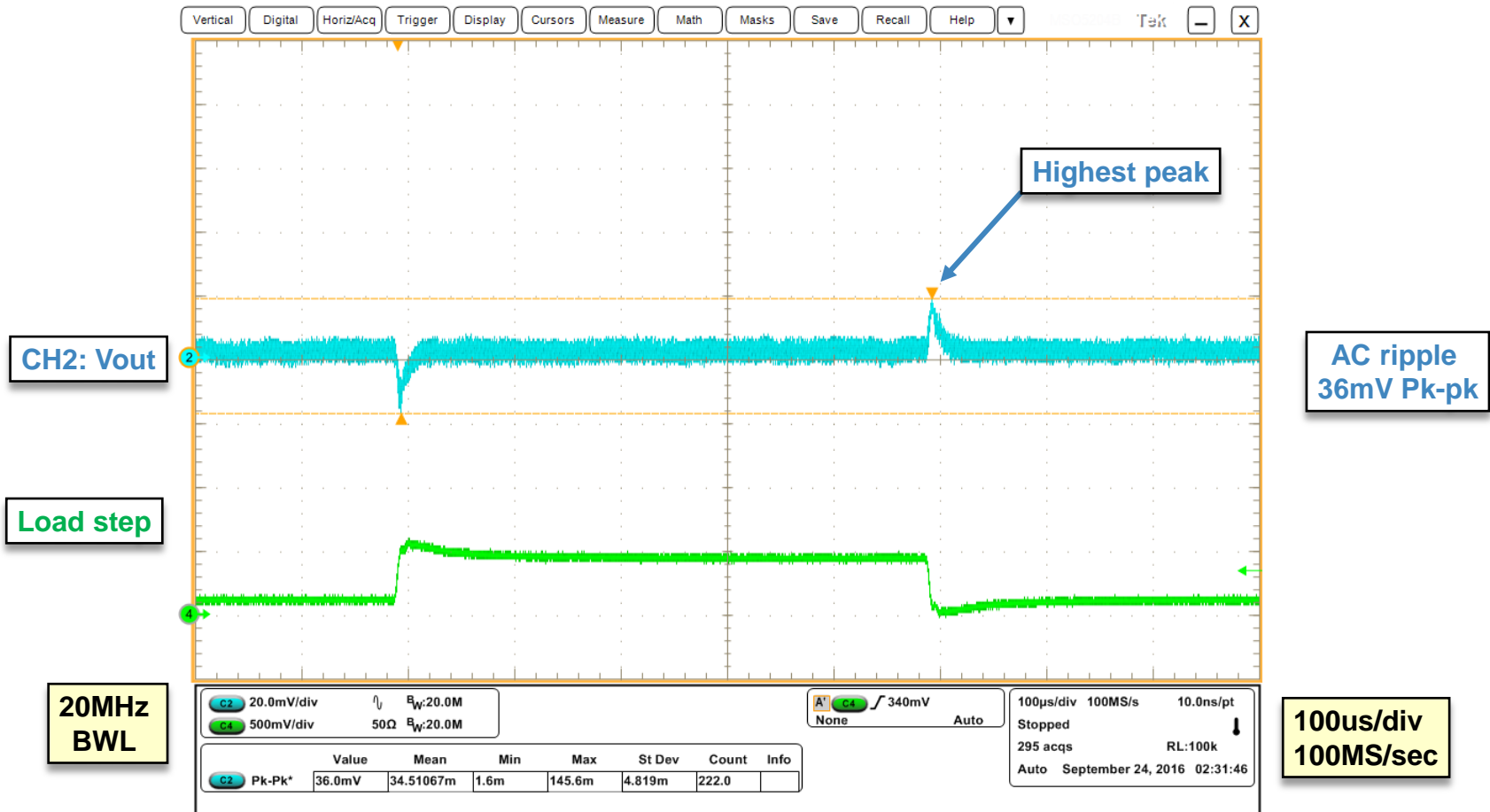


## VSW node at 15A load



# IR38062-V0P9 Transient Response 36mV

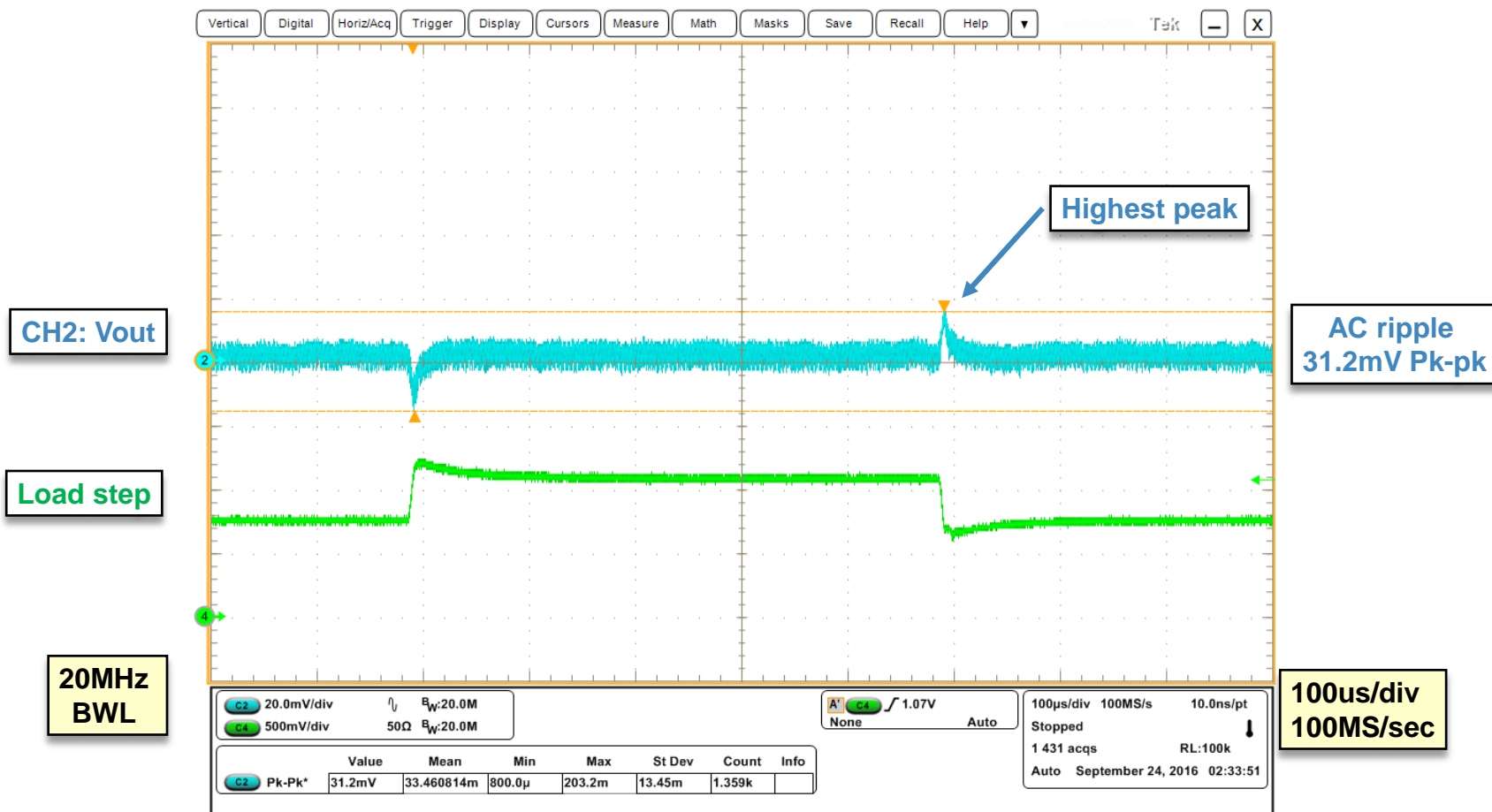
Load step of 4.5A (1.5A <-> 6A) with di/dt (2.5A/us)



Transient Response, 1.5A to 6A step (2.5A/us)

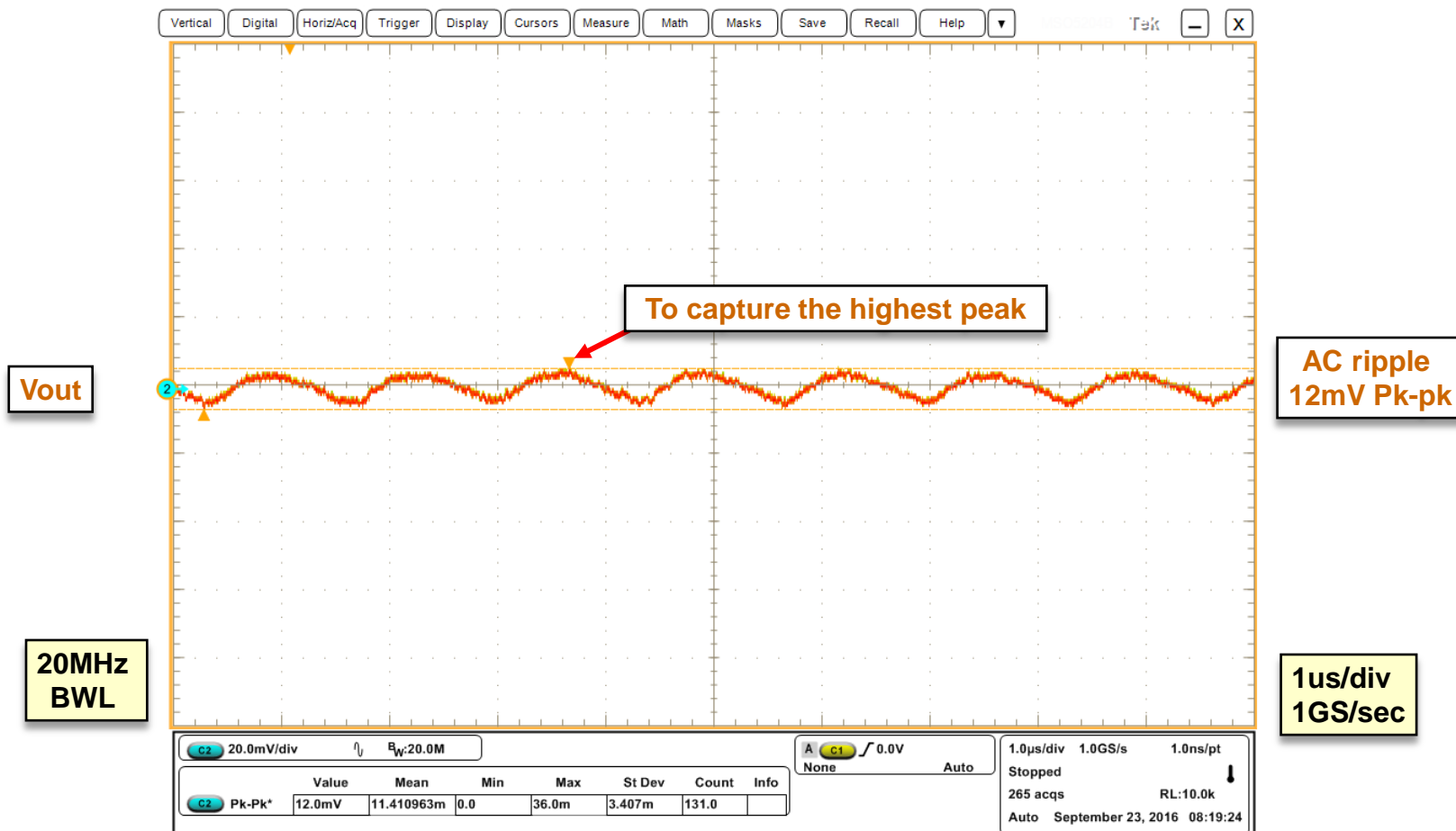
# IR38062-V0P9 Transient Response 31.2mV

Load step of 4.5A (10.5A <> 15A) with di/dt (2.5A/us)



## Transient Response, 10.5A to 15A step (2.5A/us)

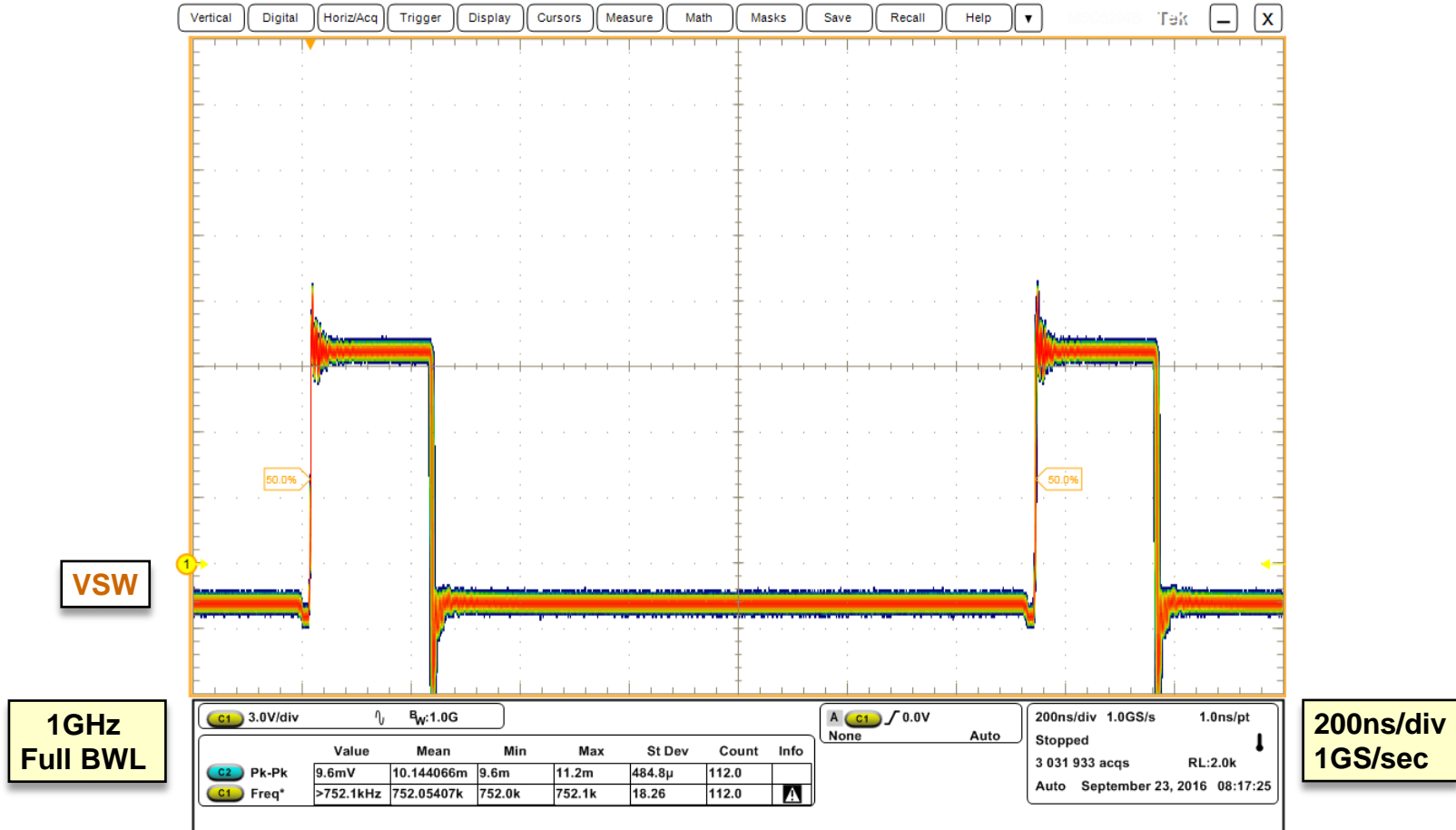
# IR3894, V1P8 rail at 12A load AC output ripple with Persistence



Output Voltage Ripple, 12A load Ch<sub>2</sub>: V<sub>out</sub>

# IR3894, V1P8 rail at 12A load

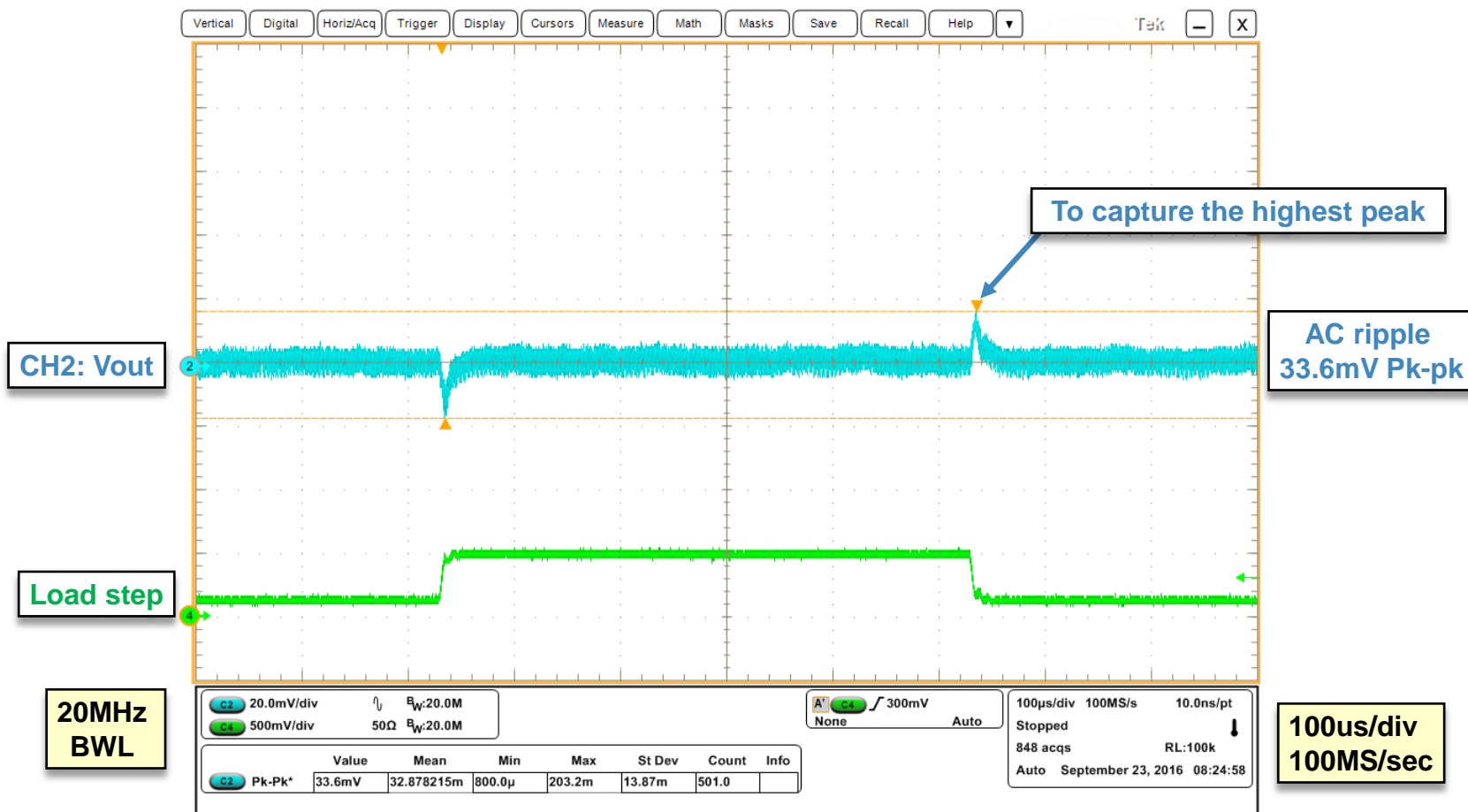
## VSW node at 750kHz with Persistence



### VSW node at 12A load

# IR3894, V1P8 Transient Response 33.6mV

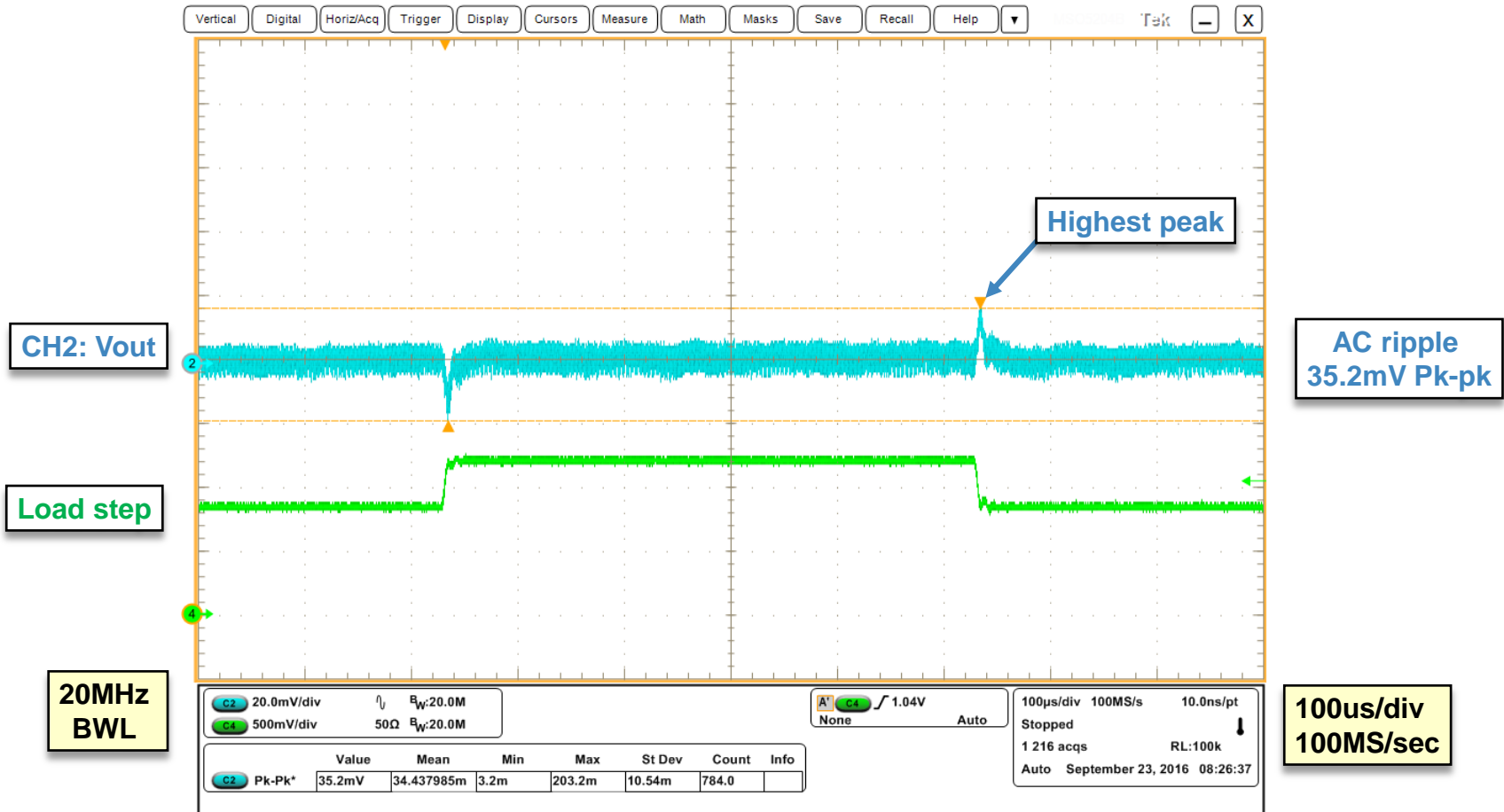
Load step of 3.6A (1.2A <> 4.8A) with di/dt (2.5A/us)



## Transient Response, 1.2A to 4.8A step (2.5A/us)

# IR3894, V1P8 Transient Response 35.2mV

Load step of 3.6A (8.4A <math>\leftrightarrow</math> 12A) with  $di/dt$  (2.5A/us)



Transient Response, 8.4A to 12A step (2.5A/us) Ch<sub>2</sub>:V<sub>out</sub>



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