

Zynq US+ Test Report

Oct 2021

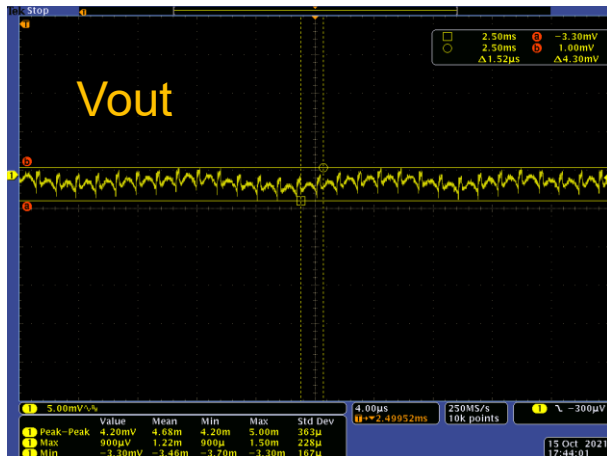
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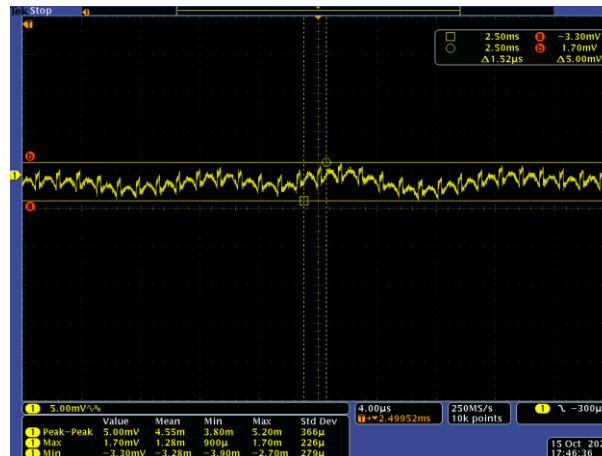
ZynqUS+

ZU1/2/3 Minimum Rails VCCINT Ripple (MP5475 PMIC)

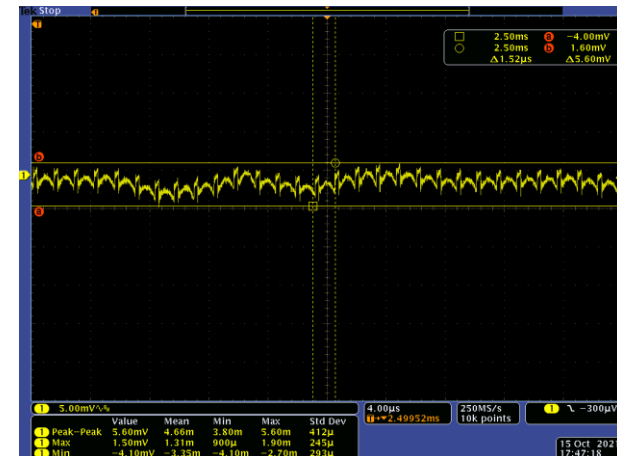
Standby



Half Load



Max Load



- ❑ 4.2 mV peak-peak ripple at Standby
- ❑ 5.0 mV peak-peak ripple at Half load
- ❑ 5.6 mV peak-peak ripple at Max load

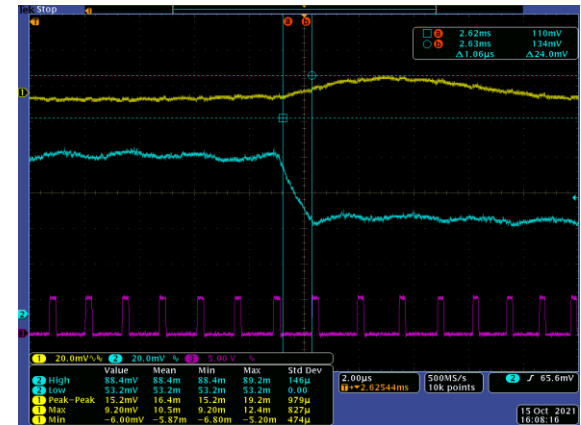
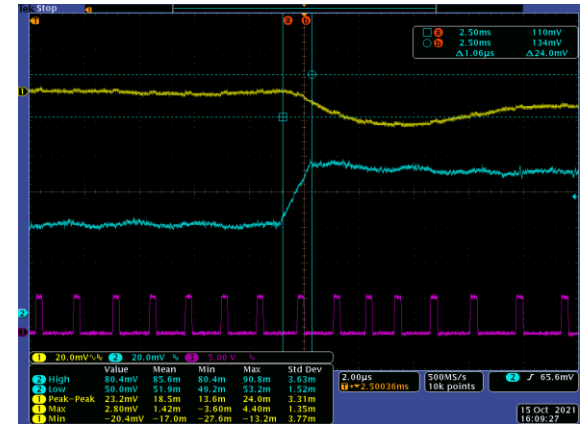
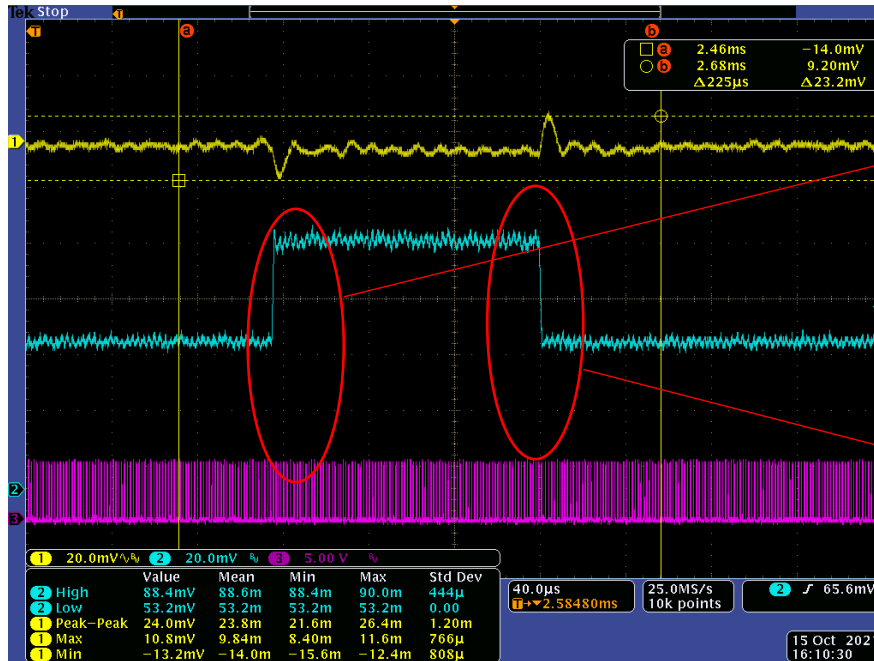
ZU1/2/3 Minimum Rails VCCINT Transient (MP5475 PMIC)

Step Load 2.1A → 3.15A → 2.1A, 10A/us

Vout

Io

SW



Vout ripple -1.6% (-13.2mV) to +1.3% (10.8mV) with load transient

AU10P/AU15P/AU20P/AU25P (MP5475 PMIC)

	Vo	Ripple No load	Ripple Half load	Ripple Full load	Pwr ON Seq
MP5475-Buck1	0.85V	4.2mVpp	5.0mVpp	5.6mVpp	1 (0 ms)
MP5475-Buck2	1.8V	2.6mVpp	3.4mVpp	3.6mVpp	2 (1.9mS)
MP5475-Buck3	1.5V	2.8mVpp	3.2mVpp	3.4mVpp	3 (3.6mS)
MP2002A	1.2V	1.2mVpp	2.0mVpp	2.0mVpp	4 (3.76mS)
MP5475-Buck4	3.3V	4.4mVpp	5.6mVpp	6.0mVpp	6 (5.6mS)