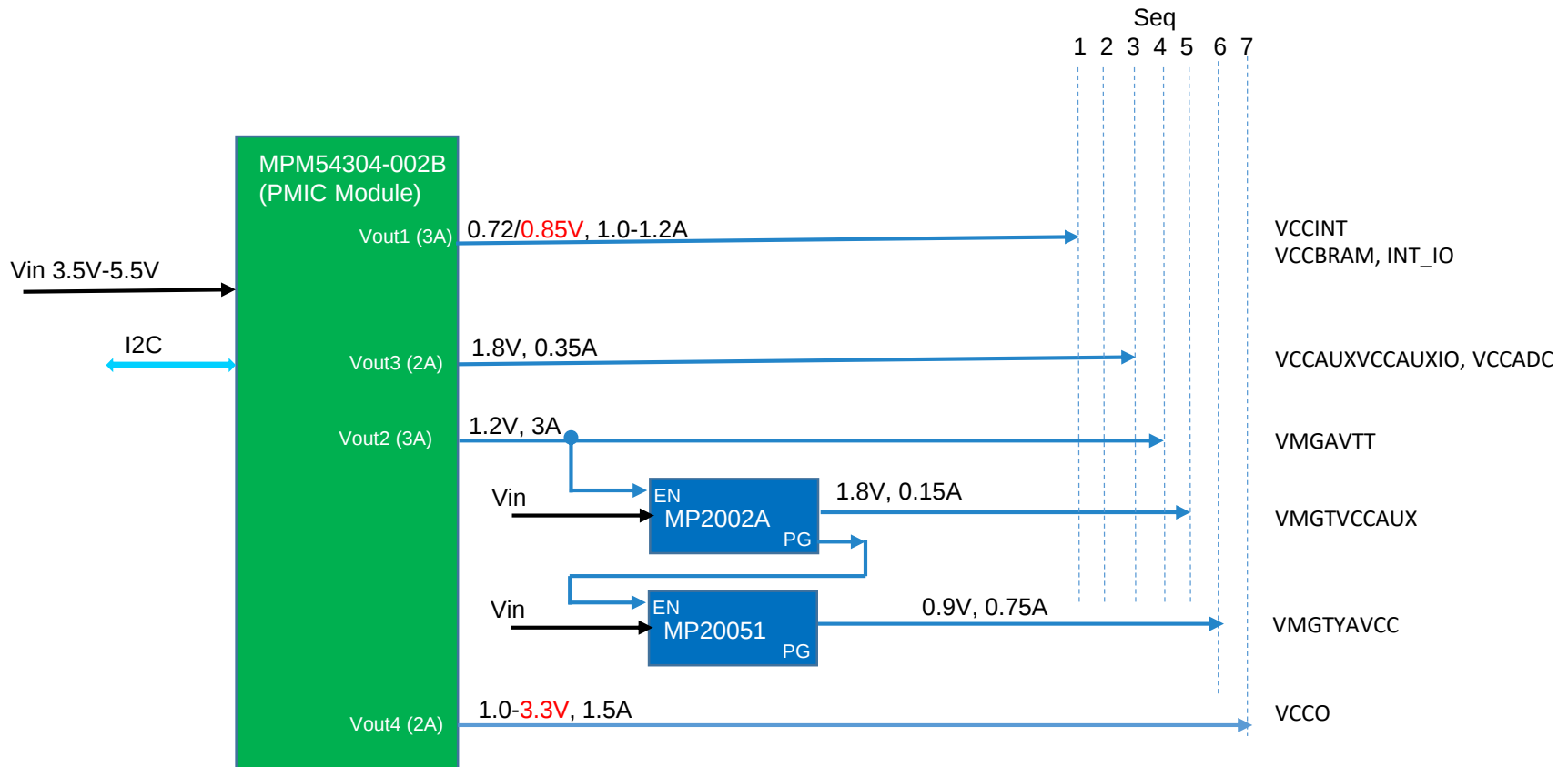


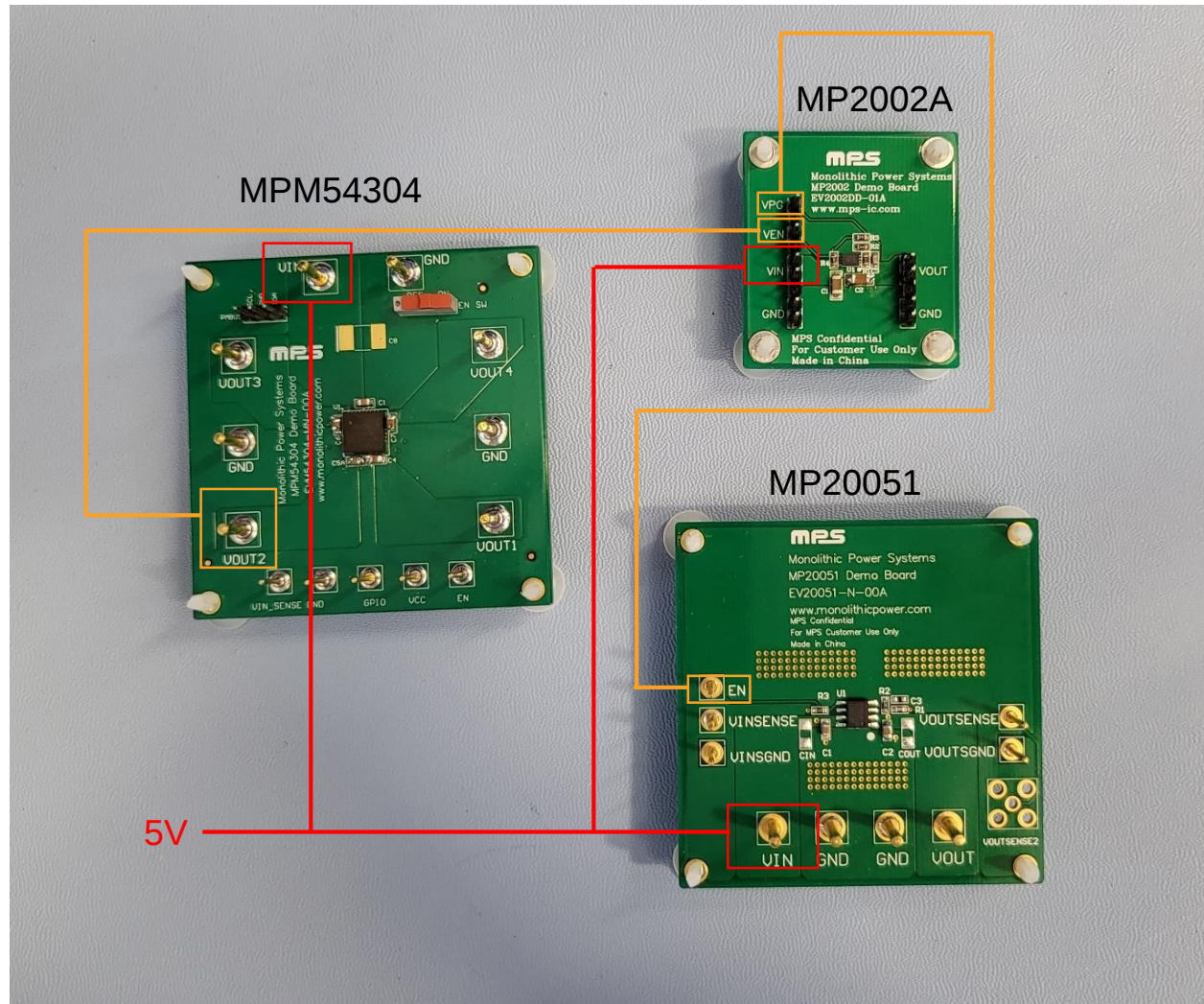
ArtixUS+ Test Report

AU10P/AU15P (MPM54304 PMIC Module)



Note: Voltages shown in red are default values

AU10P/AU15P (MPM54304 PMIC Module) EVB Connection

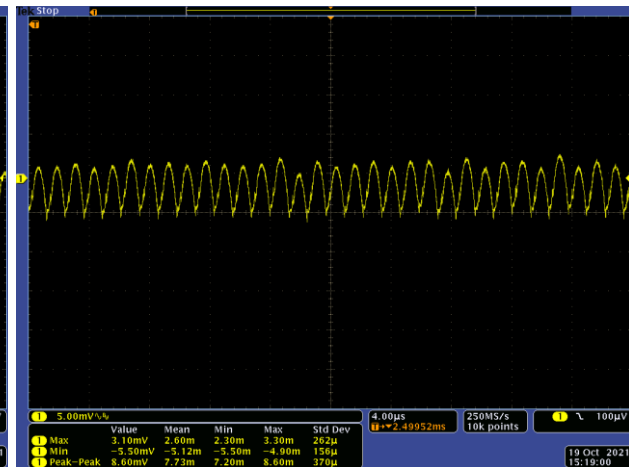
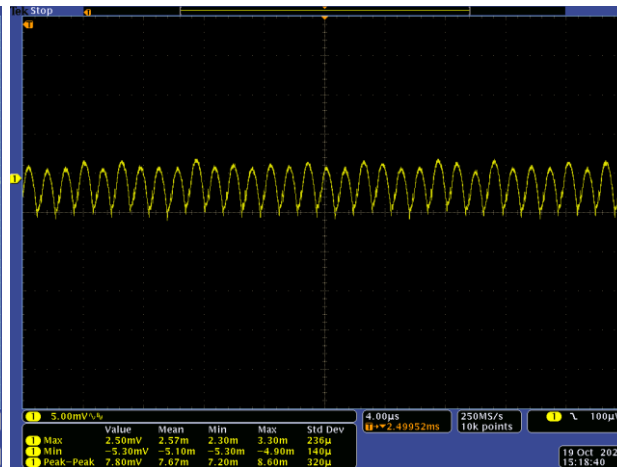
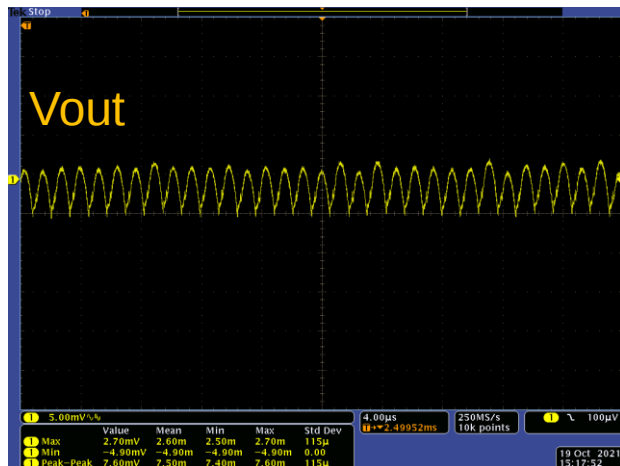


AU10P/AU15P VCCINT Ripple (MPM54304 PMIC Module)

Standby

Half Load

Max Load



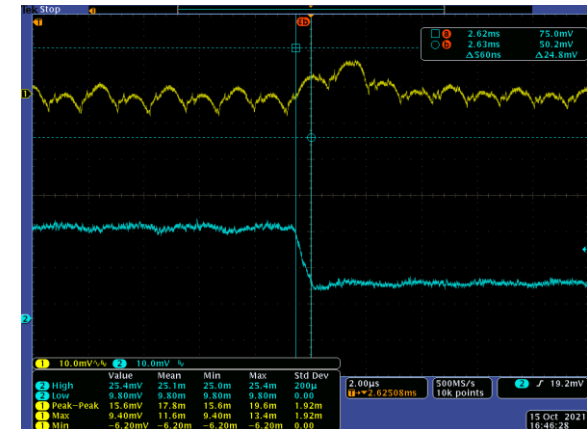
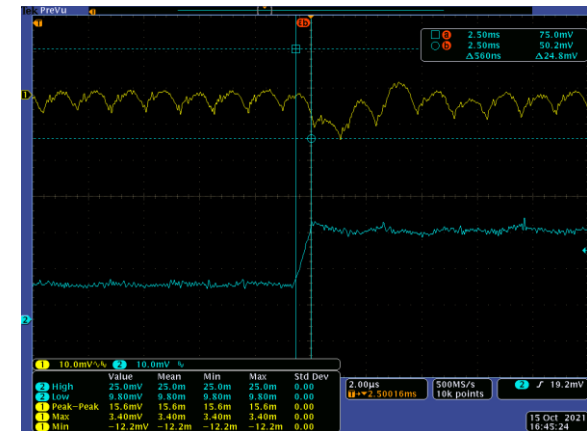
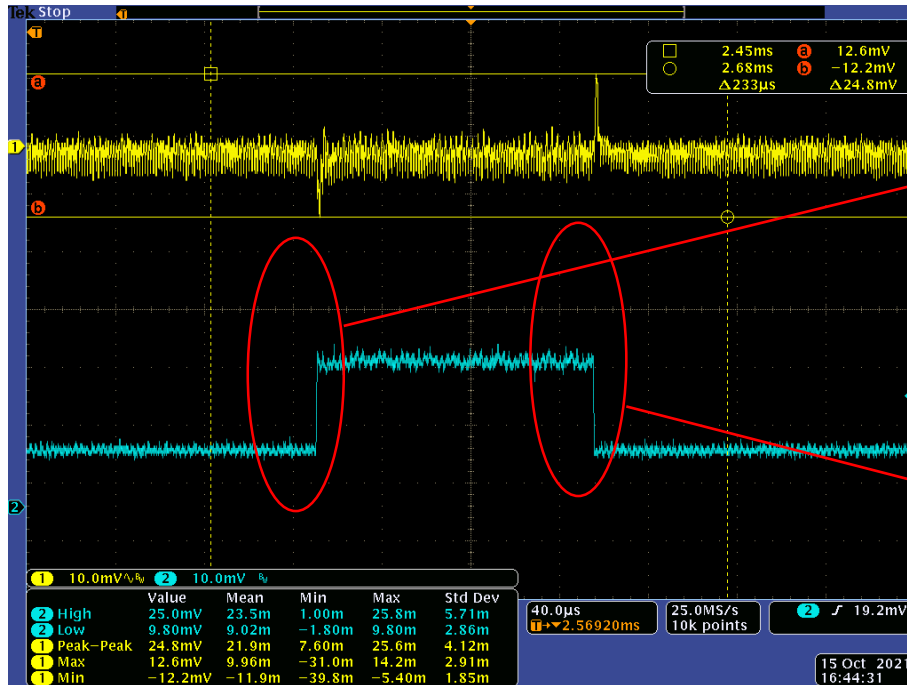
- ❑ 7.6 mV peak-peak ripple at Standby
- ❑ 7.8 mV peak-peak ripple at Half load
- ❑ 8.6 mV peak-peak ripple at Max load

AU10P/AU15P VCCINT Transient (MPM54304 Module)

Step Load 0.35A $\rightarrow$ 0.9A $\rightarrow$ 0.35A, 10A/us

Vout

Io



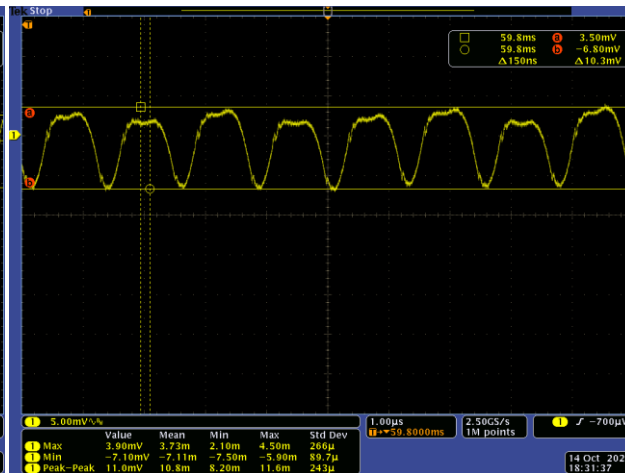
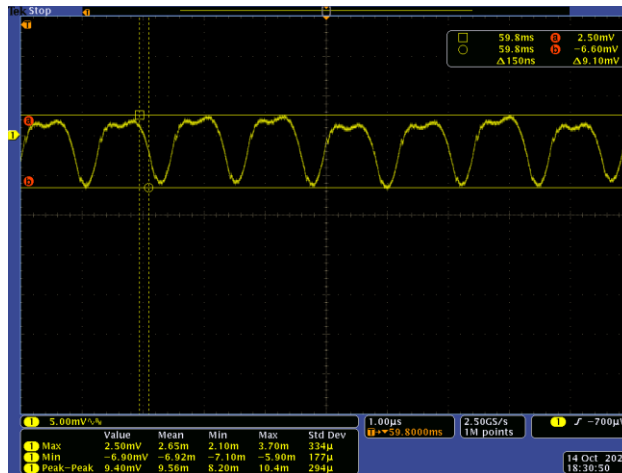
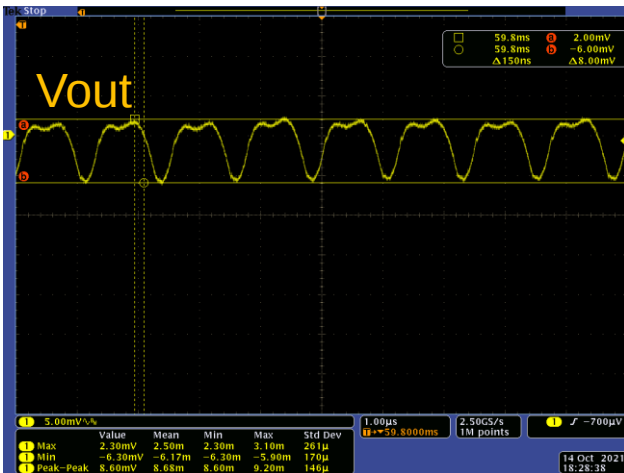
□ Vout ripple -1.4% (-12.2mV) to +1.5% (12.6mV) with load transient

AU10P/AU15P VMGAVTT Ripple (MPM54304 Module)

Standby

Half Load

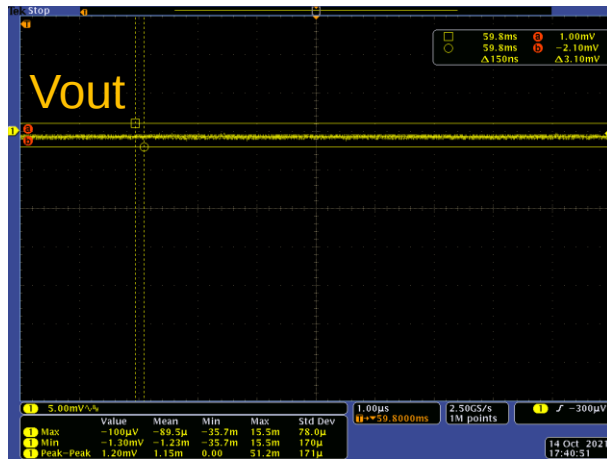
Max Load



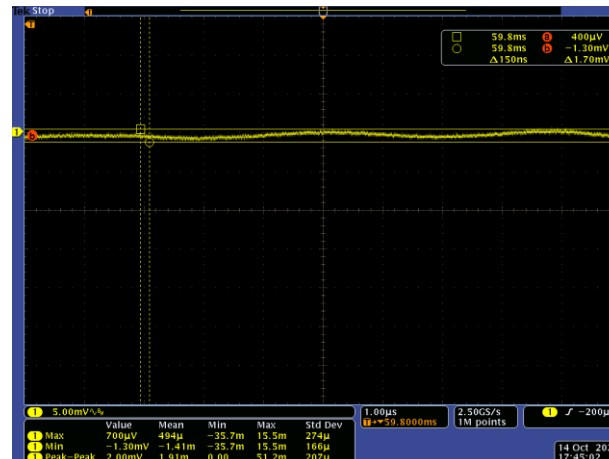
- 8.6 mV peak-peak ripple at Standby
- 9.4 mV peak-peak ripple at Half load
- 11.0 mV peak-peak ripple at Max load

AU10P/AU15P VMGTVCCAUX Ripple (MP2002A)

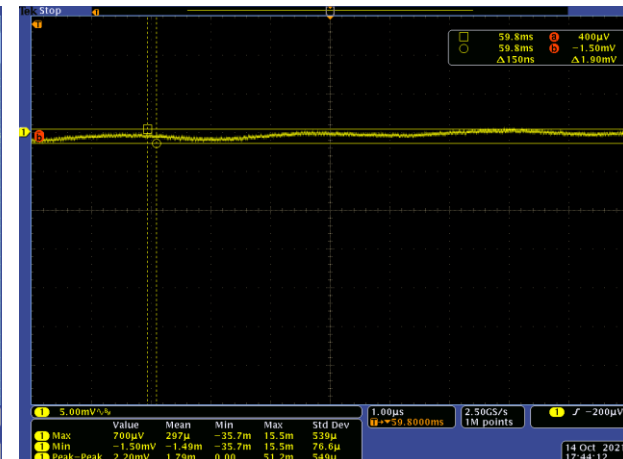
Standby



Half Load



Max Load



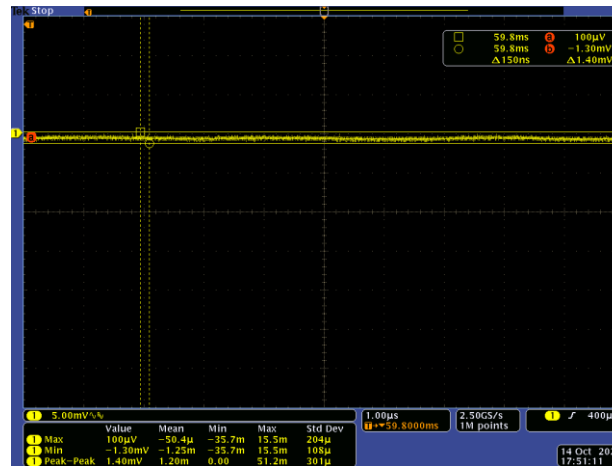
- ❑ 1.2 mV peak-peak ripple at Standby
- ❑ 2.0 mV peak-peak ripple at Half load
- ❑ 2.2 mV peak-peak ripple at Max load

AU10P/AU15P VMGTYAVCC Ripple (MP20051)

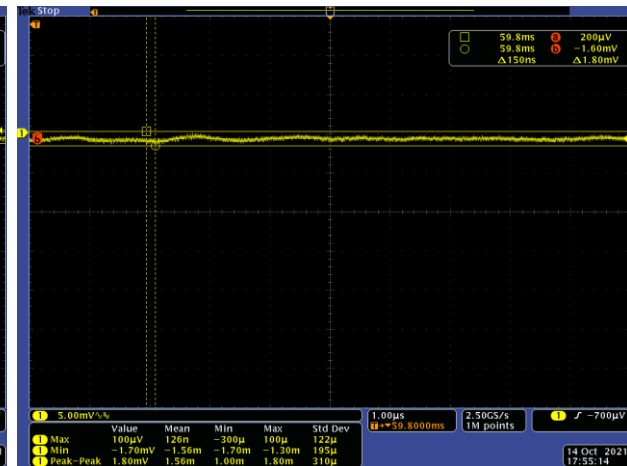
Standby



Half Load



Max Load



- ❑ 1.2 mV peak-peak ripple at Standby
- ❑ 1.4 mV peak-peak ripple at Half load
- ❑ 1.8 mV peak-peak ripple at Max load

AU10P/AU15P (MPM54304 PMIC Module)

	Vo	Ripple No load	Ripple Half load	Ripple Full load	Pwr ON Seq
MPM54304-Buck1	0.85V	7.6mVpp	7.8mVpp	8.6mVpp	1 (0 ms)
MPM54304-Buck3	1.8V	12.6mVpp	13mVpp	14mVpp	2 (1mS)
MP54304-Buck2	1.2V	8.6mVpp	9.4mVpp	11.0mVpp	3 (2mS)
MP2002A	1.8V	1.2mVpp	2.0mVpp	2.2mVpp	4 (2.16mS)
MP20051	0.9V	1.2mVpp	1.4mVpp	1.8mVpp	5 (2.5mS)
MPM54304-Buck4	3.3V	19.2mVpp	19.2mVpp	19.8mVpp	6 (3.2mS)