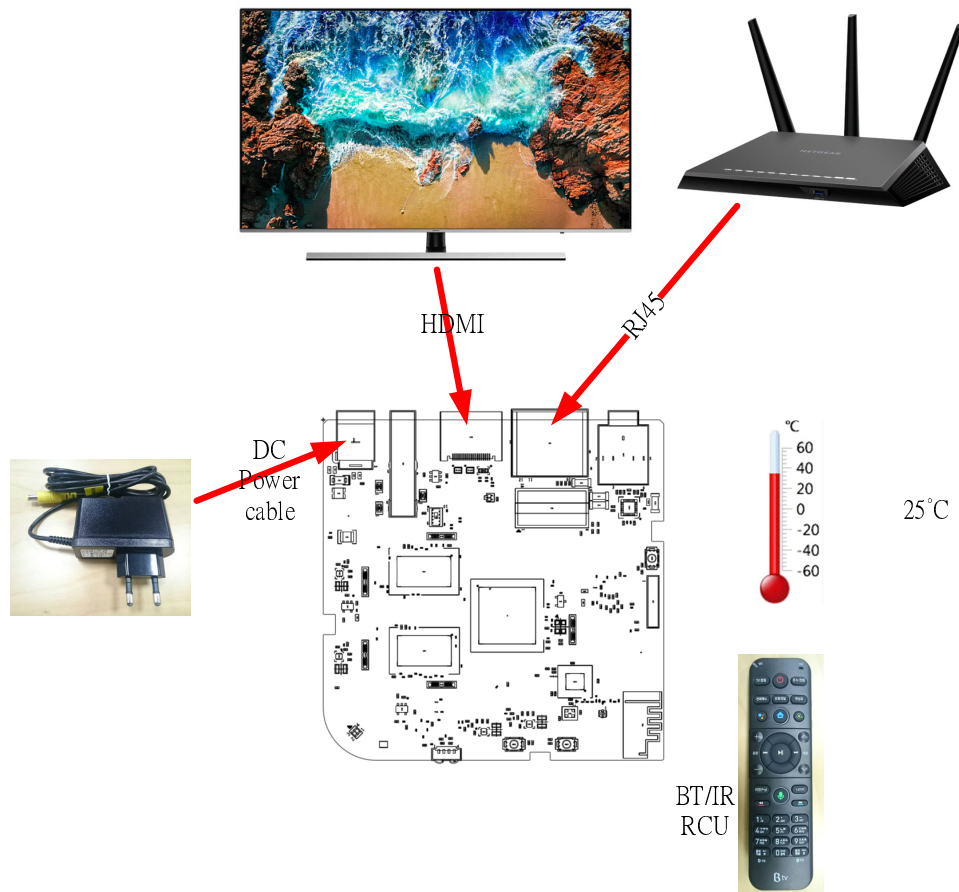


Hardware Unit Test Report

Power Ripple Test

Hardware version	FW version	Sample No.	eMMC Flash P/N
V005	4.9.113 #1MonFeb 1122:40:43 CST 2019	S/N:	KLM8G1GETF-B041

1. Power Test Setup (1)



1.1 Test Condition

BOX play 4K video via Ethernet by using YouTube. HDMI output port connects to TV through HDMI cable. The temperature is about 25 degrees. The results is meet $\pm 5\%$.

1.2 Result and Picture

Power Rail	Specification	Test Result (mV)	Figure	Pass/Fail
	Max Ripple (mV)			
PP_PWR_IN (5V)	250	92	Figure 1	Pass
HDMI_PW(5V)	250	98	Figure 2	Pass
USB_5V(5V)	250	48	Figure 3	Pass
VDD_EE(0.8V)	40	32	Figure 4	Pass
VDDCPU	40	35.2	Figure 5	Pass
P3V3(3.3V)	165	60	Figure 6	Pass
P2V5(2.5V)	125	60	Figure 7	Pass
P1V8 (1.8V)	90	42	Figure 8	Pass
EMMC_VDDQ (1.8V)	90	52	Figure 9	Pass
P1V2 (1.2V)	60	52	Figure 10	Pass

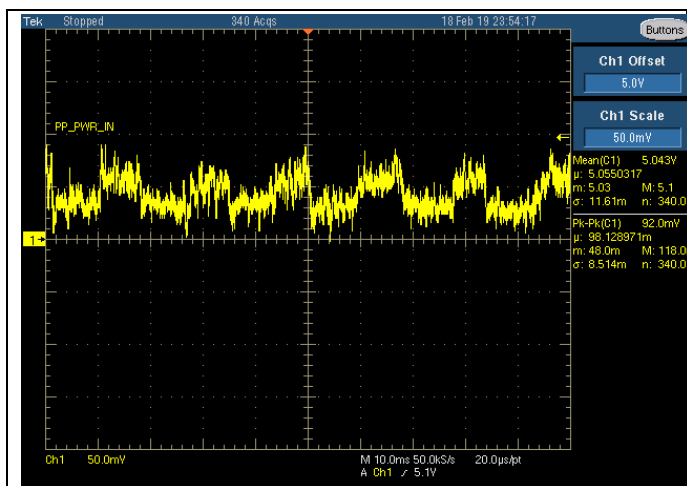


Fig. 1: PP_PWR_IN

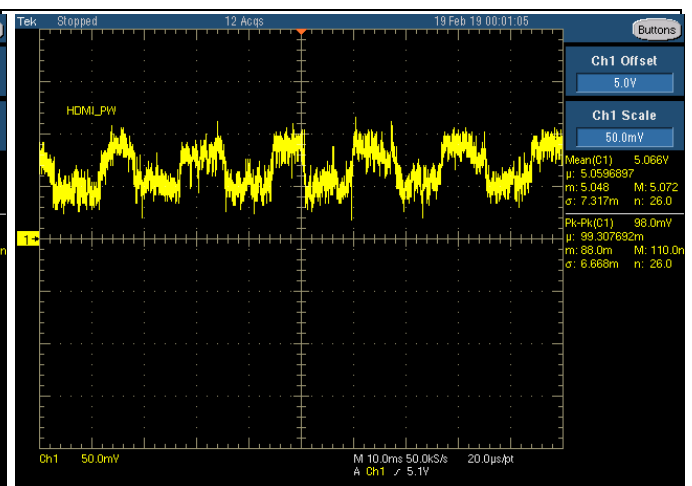


Fig. 2: HDMI_PW

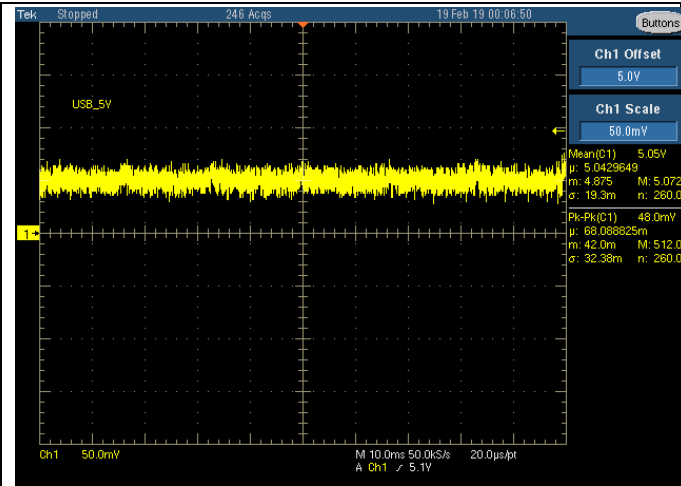


Fig. 3: USB_5V

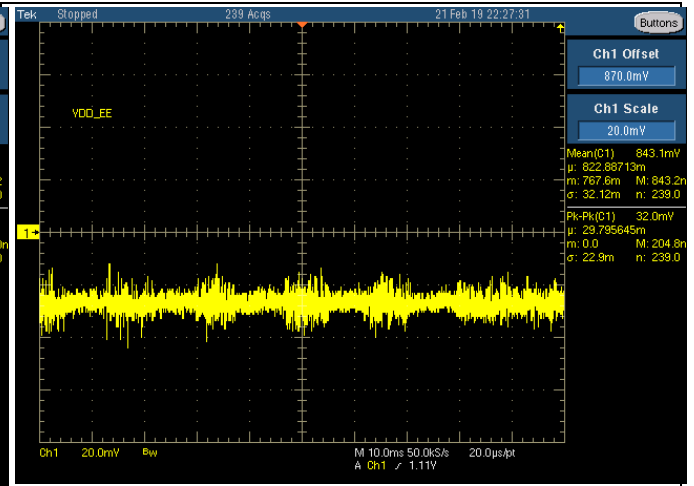


Fig. 4: VDD_EE

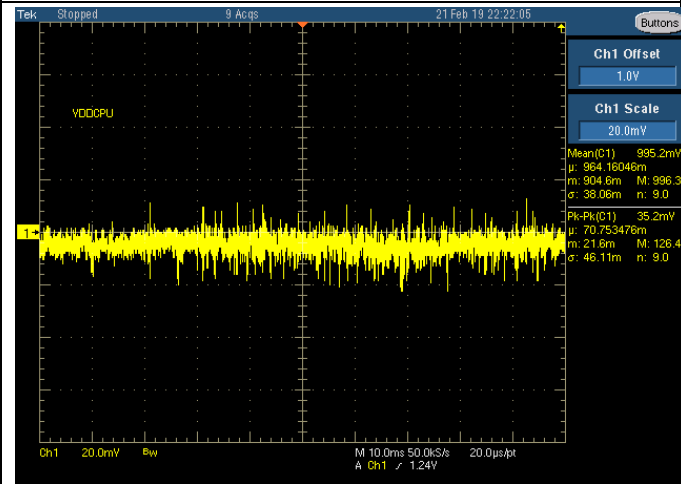


Fig. 5: VDDCPU

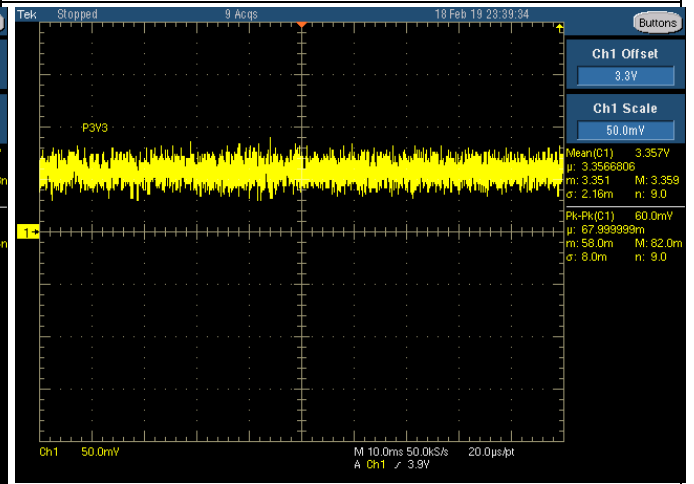


Fig. 6: P3V3

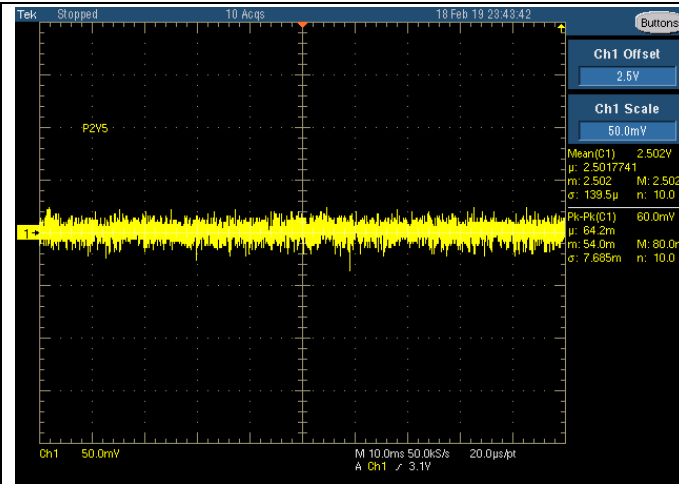


Fig. 7: P2V5

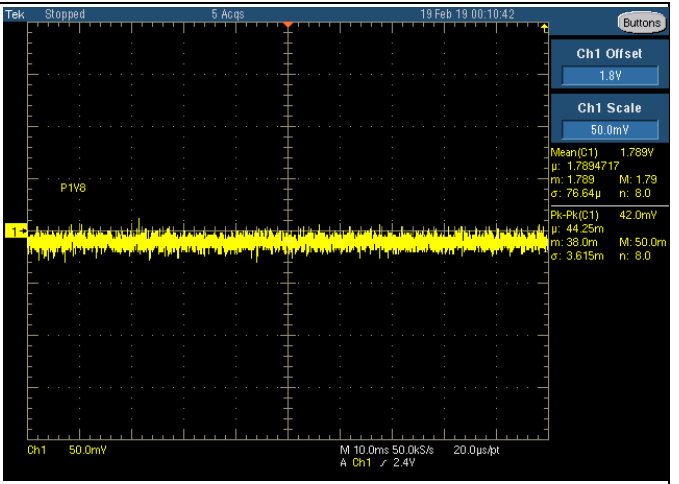


Fig. 8: P1V8

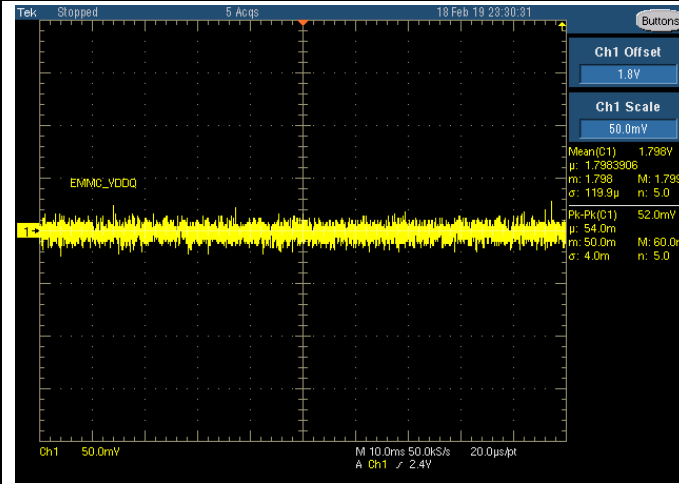


Fig. 9: EMMC_VDDQ

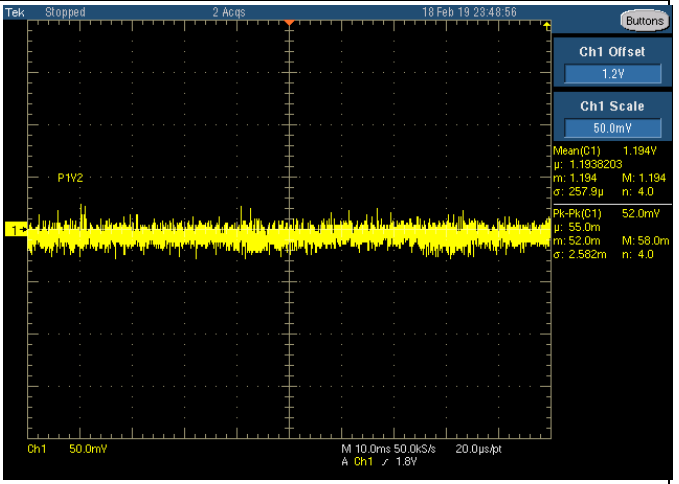
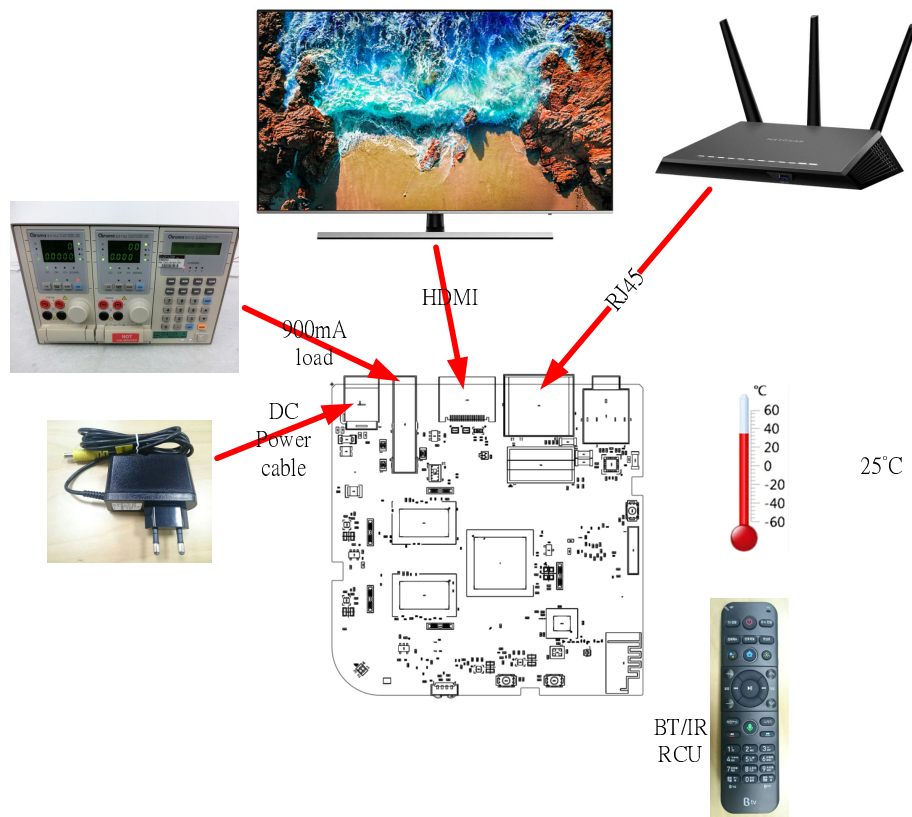


Fig. 10: P1V2

2. Power Test Setup (2)



2.1 Test Condition

BOX play 4K video via Ethernet by using YouTube. The USB port is loading with 900mA. HDMI output port connects to TV through HDMI cable. The temperature is about 25 degrees. The results is meet +-5%.

2.2 Result and Picture

Power Rail	Specification	Test Result (mV)	Figure	Pass/Fail
	Max Ripple (mV)			
PP_PWR_IN (5V)	250	100	Figure 1	Pass

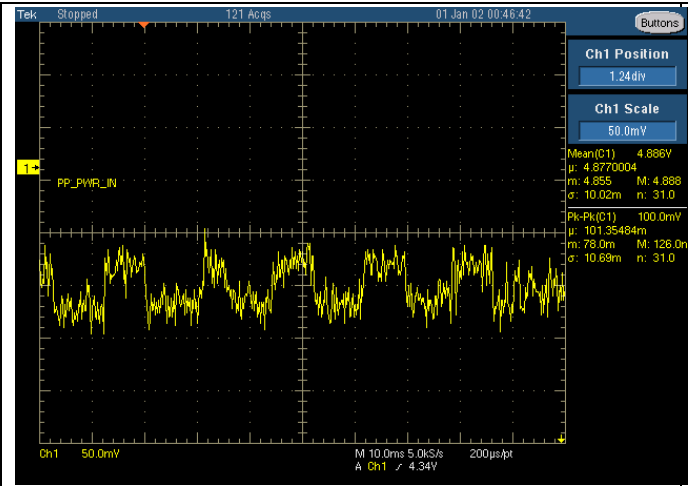


Fig. 11: PP_PWR_IN with USB 900mA load