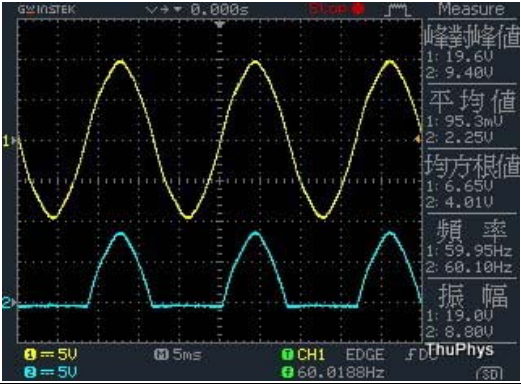
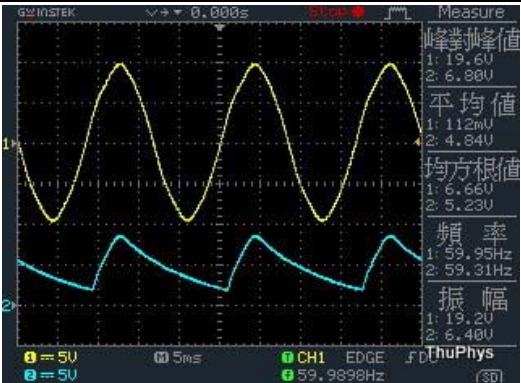
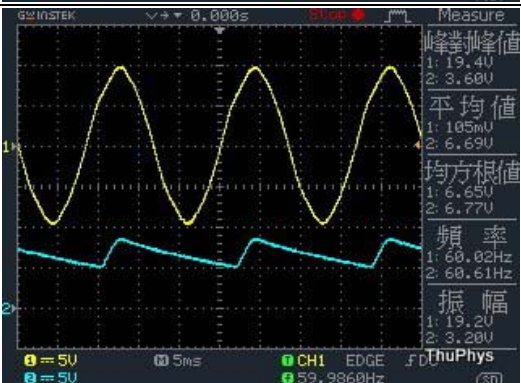
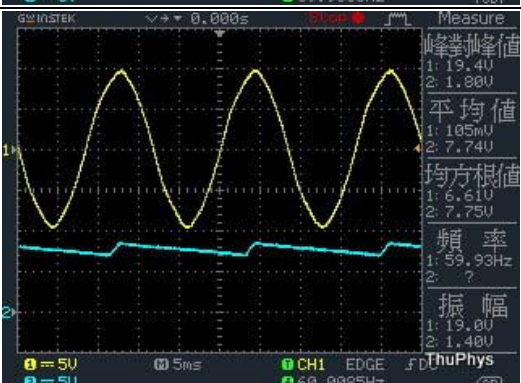
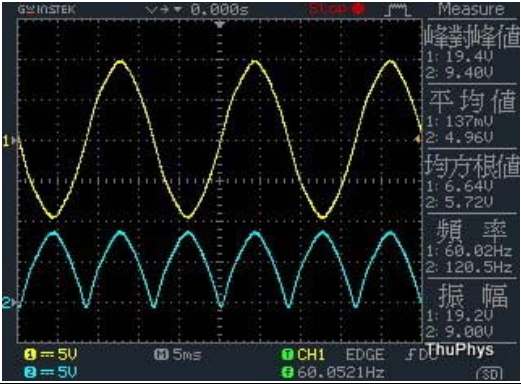
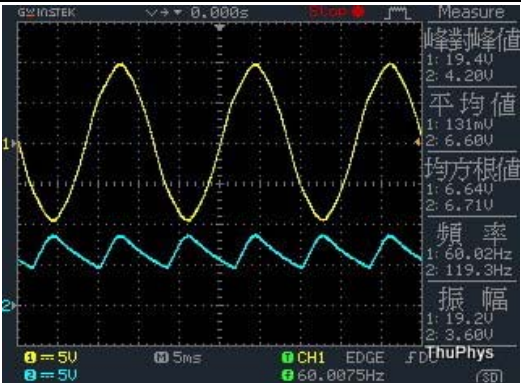
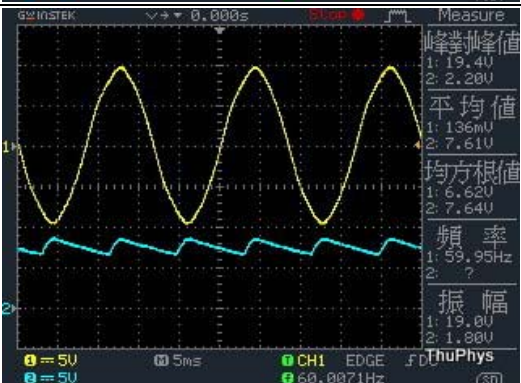
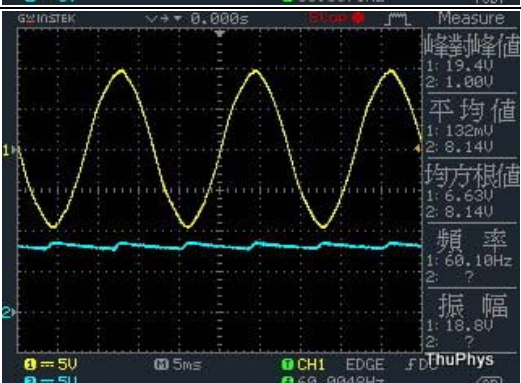


【項目一】半波整流電路的特性。輸入訊號：60Hz、 $\sim 6V_{rms}$

輸出訊號： 60Hz $V_{DC}=2.25V_{av}$ $V_{ripple}=9.40V_{p-p}$	
+10uF 電容 60Hz $V_{DC}=4.84V_{av}$ $V_{ripple}=6.80V_{p-p}$	
+33uF 電容 60Hz $V_{DC}=6.69V_{av}$ $V_{ripple}=3.60V_{p-p}$	
+100uF 電容 60Hz $V_{DC}=7.74V_{av}$ $V_{ripple}=1.80V_{p-p}$	

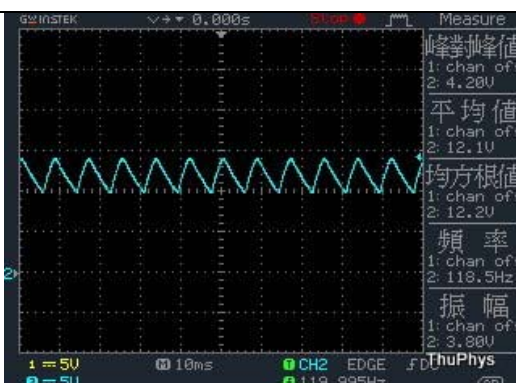
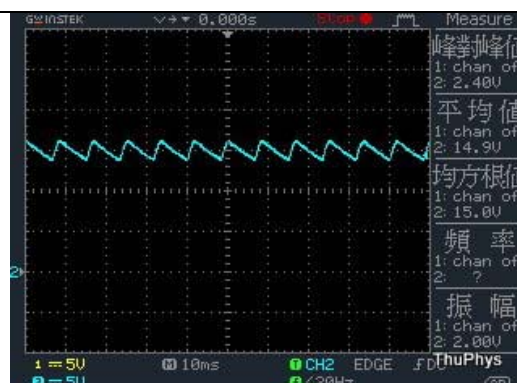
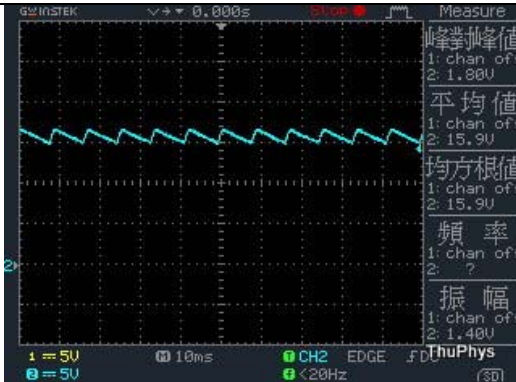
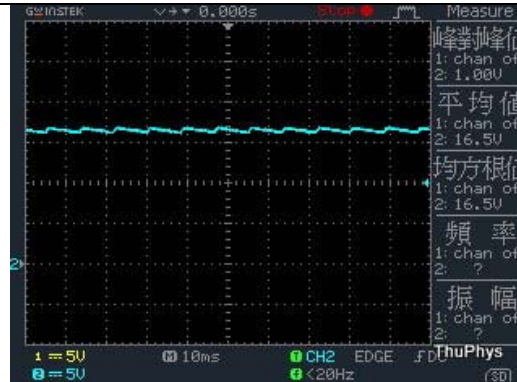
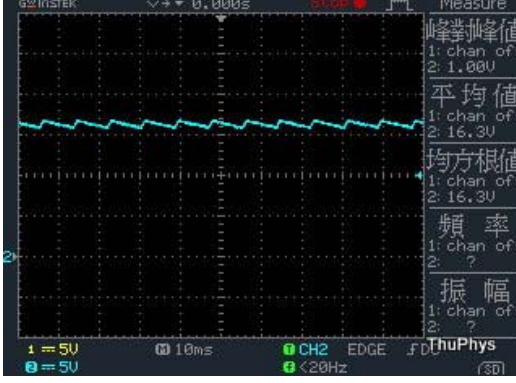
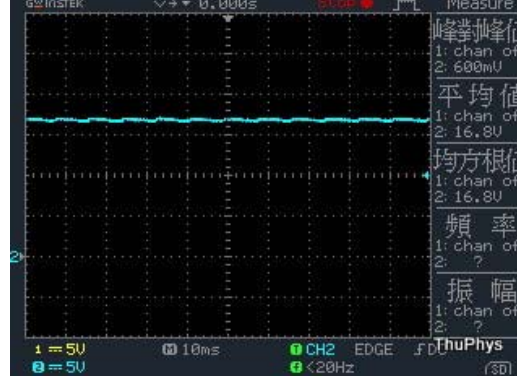


【項目二】全波整流電路的特性。輸入訊號：60Hz、 $\sim 6V_{rms}$

輸出訊號： 120Hz $V_{DC}=4.96V_{av}$ $V_{ripple}=9.40V_{p-p}$	
+10uF 電容 120Hz $V_{DC}=6.60V_{av}$ $V_{ripple}=4.20V_{p-p}$	
+33uF 電容 120Hz $V_{DC}=7.61V_{av}$ $V_{ripple}=2.20V_{p-p}$	
+100uF 電容 120Hz $V_{DC}=8.14V_{av}$ $V_{ripple}=1.00V_{p-p}$	






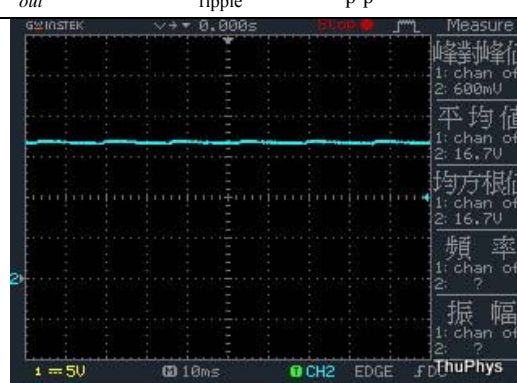
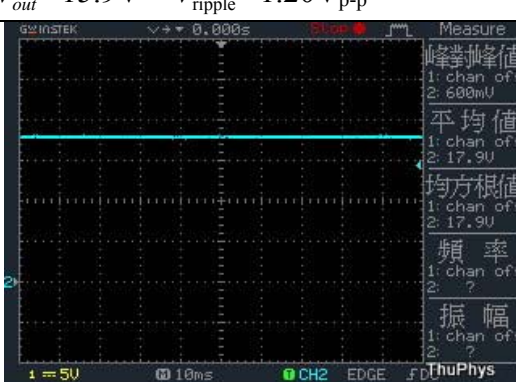
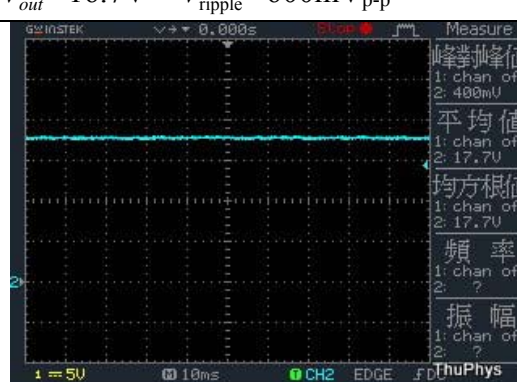
【項目三】橋式整流電路的特性

【再補！】

【項目四】全波兩倍壓整流電路的特性

R_L	$C_1=C_2=33\mu F$	$C_1=C_2=100\mu F$
1 k Ω	 <p>峰-峰值 1: chan off 2: 4.20V 平均值 1: chan off 2: 12.1V 均方根值 1: chan off 2: 12.2V 頻率 1: chan off 2: 118.5Hz 振幅 1: chan off 2: 3.80V</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 12.1V$ $V_{ripple} = 4.20V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 2.40V 平均值 1: chan off 2: 14.9V 均方根值 1: chan off 2: 15.0V 頻率 1: chan off 2: ? 振幅 1: chan off 2: 2.00V</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 14.9V$ $V_{ripple} = 2.40V_{p-p}$</p>
4.7 k Ω	 <p>峰-峰值 1: chan off 2: 1.80V 平均值 1: chan off 2: 15.9V 均方根值 1: chan off 2: 15.9V 頻率 1: chan off 2: ? 振幅 1: chan off 2: 1.40V</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 15.9V$ $V_{ripple} = 1.80V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 1.00V 平均值 1: chan off 2: 16.5V 均方根值 1: chan off 2: 16.5V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 16.5V$ $V_{ripple} = 1V_{p-p}$</p>
10 k Ω	 <p>峰-峰值 1: chan off 2: 1.00V 平均值 1: chan off 2: 16.3V 均方根值 1: chan off 2: 16.3V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 16.3V$ $V_{ripple} = 1V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 600mV 平均值 1: chan off 2: 16.8V 均方根值 1: chan off 2: 16.8V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 16.8V$ $V_{ripple} = 600mV_{p-p}$</p>
∞	 <p>峰-峰值 1: chan off 2: 600mV 平均值 1: chan off 2: 17.9V 均方根值 1: chan off 2: 17.9V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 17.9V$ $V_{ripple} = 600mV_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 600mV 平均值 1: chan off 2: 17.4V 均方根值 1: chan off 2: 17.4V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 0 = 5V 10ms CH2 EDGE FDU ThuPhys (30)</p> <p>$V_{out} = 17.4V$ $V_{ripple} = 600mV_{p-p}$</p>

【項目五】半波倍壓整流電路的特性

R_L	$C_1=C_2=33\mu F$	$C_1=C_2=100\mu F$
1 k Ω	 <p>峰-峰值 1: chan off 2: 4.20V 平均值 1: chan off 2: 9.87V 均方根值 1: chan off 2: 9.95V 頻率 1: chan off 2: 61.27Hz 振幅 1: chan off 2: 3.60V</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 9.87V \circ V_{ripple} = 4.20V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 2.40V 平均值 1: chan off 2: 13.7V 均方根值 1: chan off 2: 13.7V 頻率 1: chan off 2: ? 振幅 1: chan off 2: 2.00V</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 13.7V \circ V_{ripple} = 2.40V_{p-p}$</p>
4.7 k Ω	 <p>峰-峰值 1: chan off 2: 1.80V 平均值 1: chan off 2: 15.0V 均方根值 1: chan off 2: 15.0V 頻率 1: chan off 2: ? 振幅 1: chan off 2: 1.40V</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 15.0V \circ V_{ripple} = 1.80V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 1.00V 平均值 1: chan off 2: 16.6V 均方根值 1: chan off 2: 16.6V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 16.6V \circ V_{ripple} = 1.00V_{p-p}$</p>
10 k Ω	 <p>峰-峰值 1: chan off 2: 1.20V 平均值 1: chan off 2: 15.9V 均方根值 1: chan off 2: 15.9V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 15.9V \circ V_{ripple} = 1.20V_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 600mV 平均值 1: chan off 2: 16.7V 均方根值 1: chan off 2: 16.7V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 16.7V \circ V_{ripple} = 600mV_{p-p}$</p>
∞	 <p>峰-峰值 1: chan off 2: 600mV 平均值 1: chan off 2: 17.9V 均方根值 1: chan off 2: 17.9V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 17.9V \circ V_{ripple} = 600mV_{p-p}$</p>	 <p>峰-峰值 1: chan off 2: 400mV 平均值 1: chan off 2: 17.7V 均方根值 1: chan off 2: 17.7V 頻率 1: chan off 2: ? 振幅 1: chan off 2: ?</p> <p>1 = 5V 10ms CH2 EDGE FDU 0 = 5V <20Hz ThuPhys (30)</p> <p>$V_{out} = 17.7V \circ V_{ripple} = 400mV_{p-p}$</p>