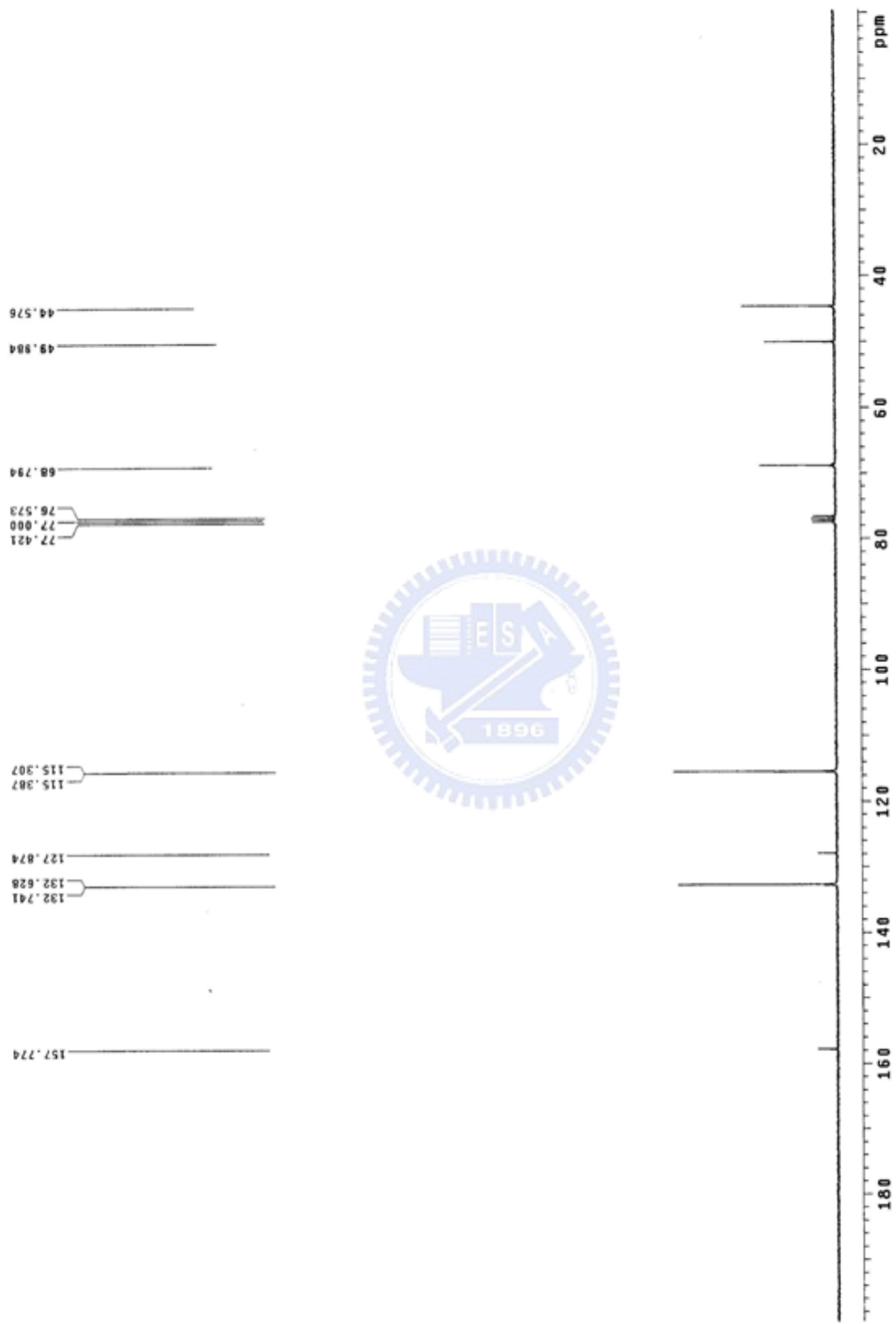


Figure.3-1 Epoxy  $^1\text{H-NMR}$



**Figure.3-2 Epoxy  $^{13}\text{C}$ -NMR**

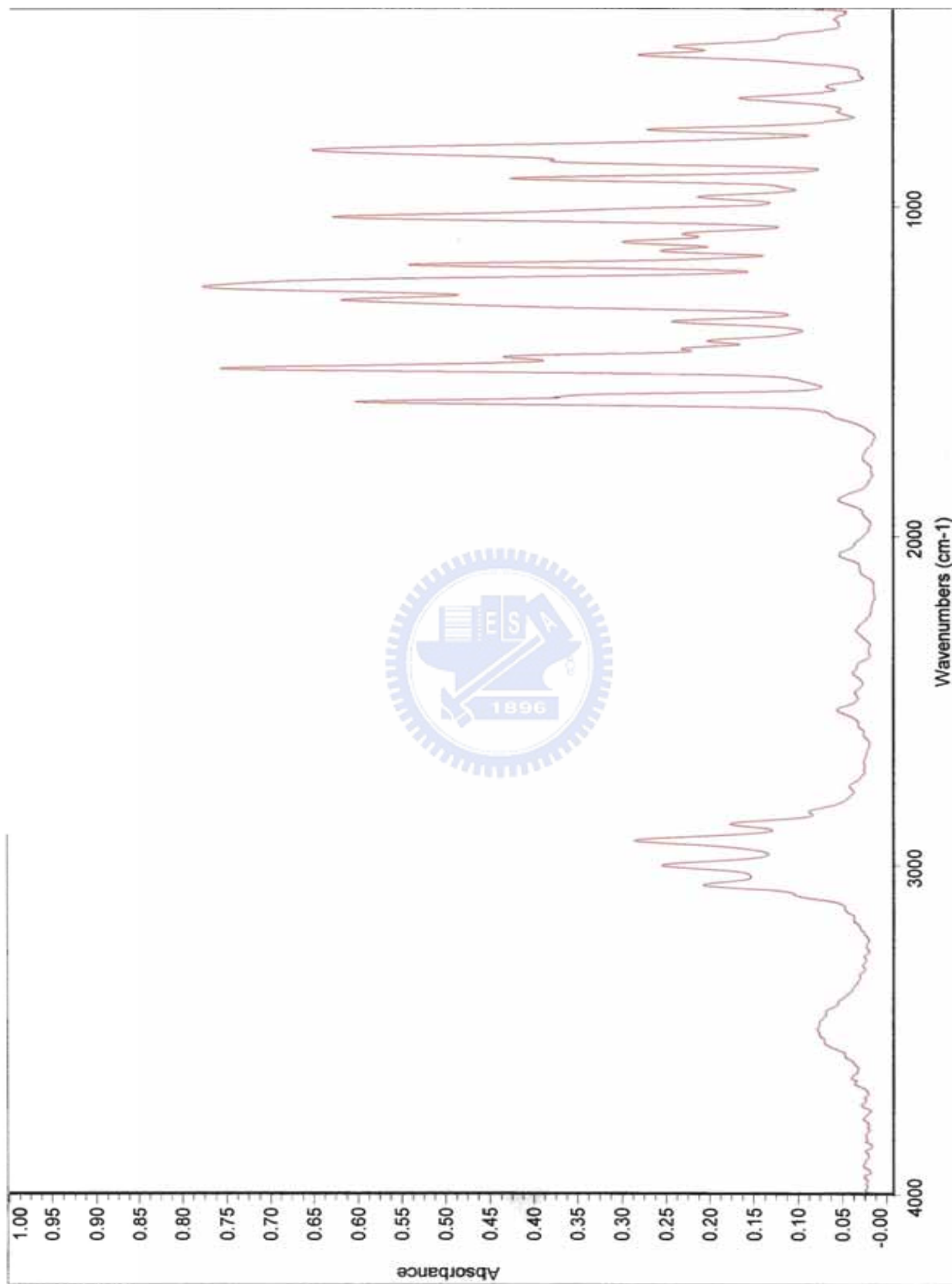


Figure3-3. Epoxy 的紅外線光譜

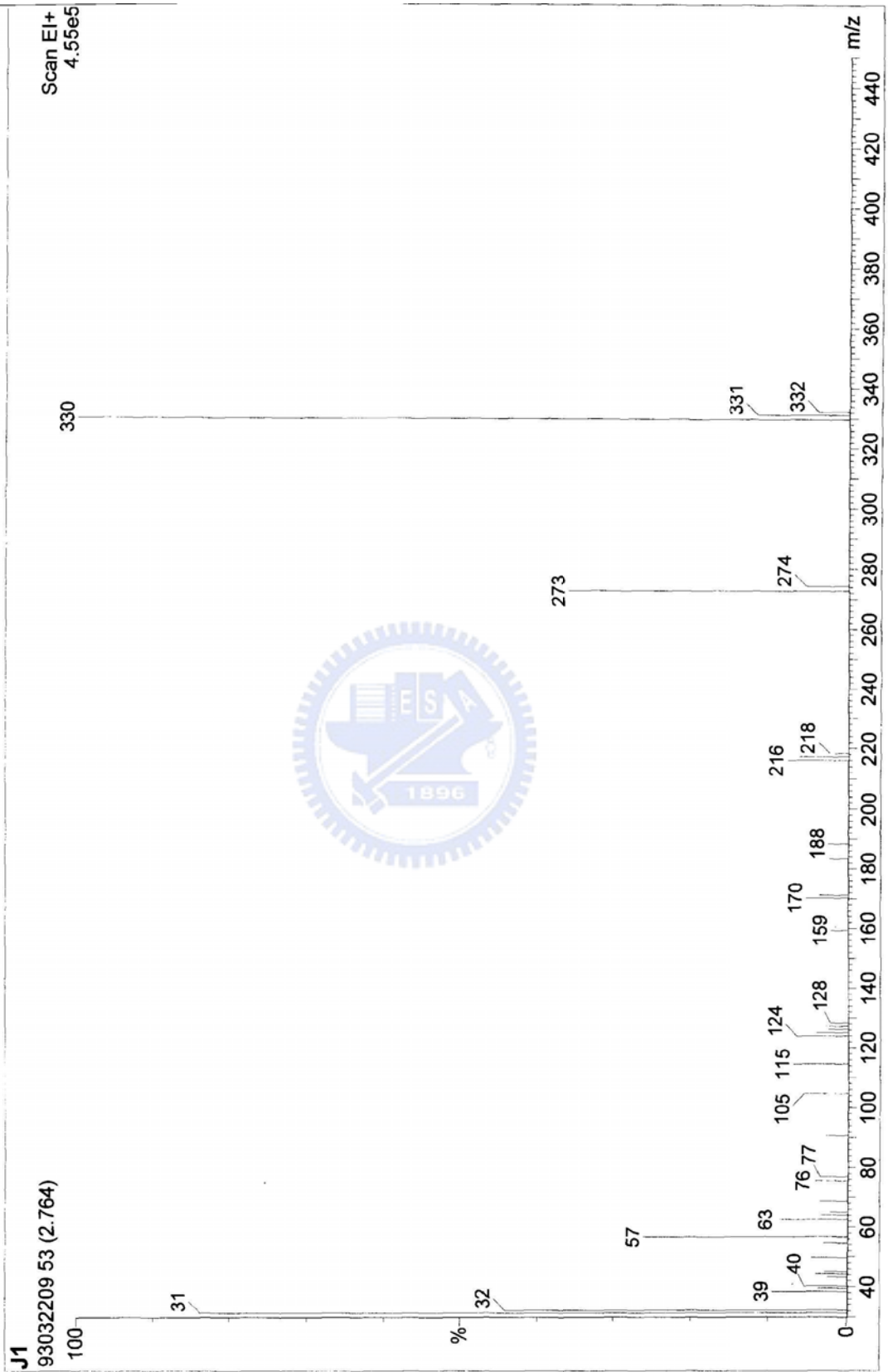


Figure.3-4 Epoxy Mass圖譜

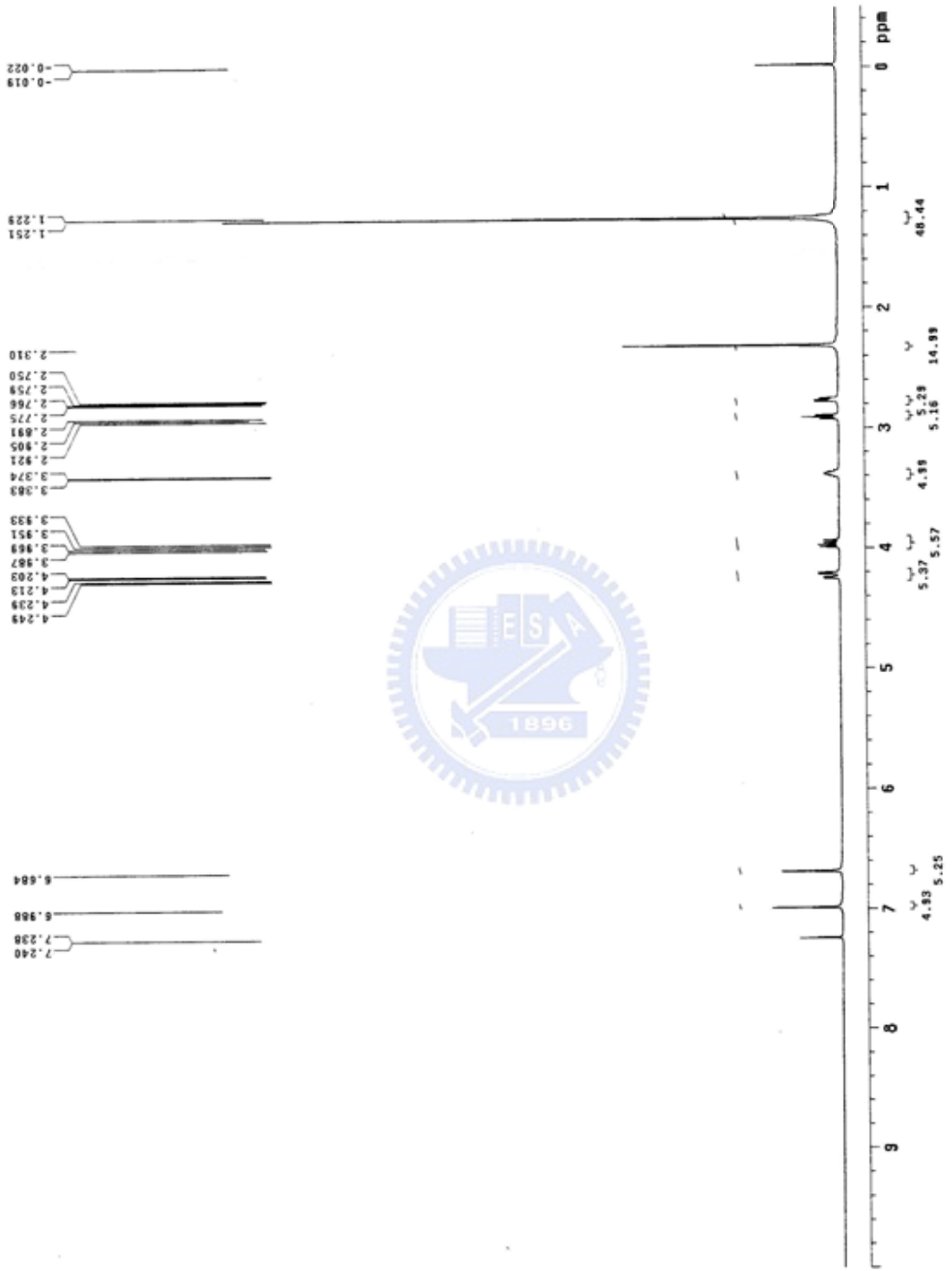


Figure.3-5 Epoxy <sup>1</sup>H-NMR

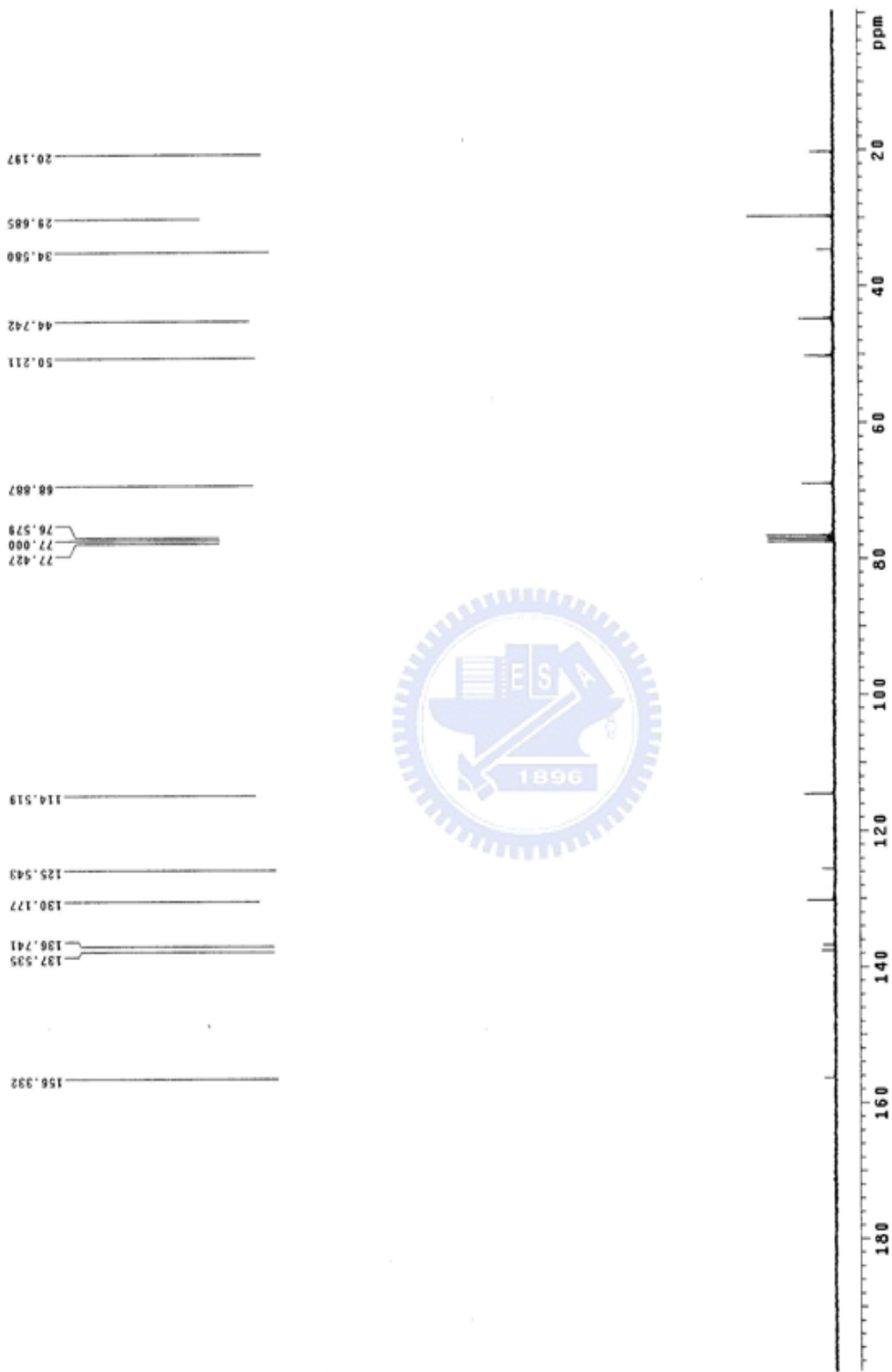


Figure.3-6 Epoxy  $^{13}\text{C}$ -NMR

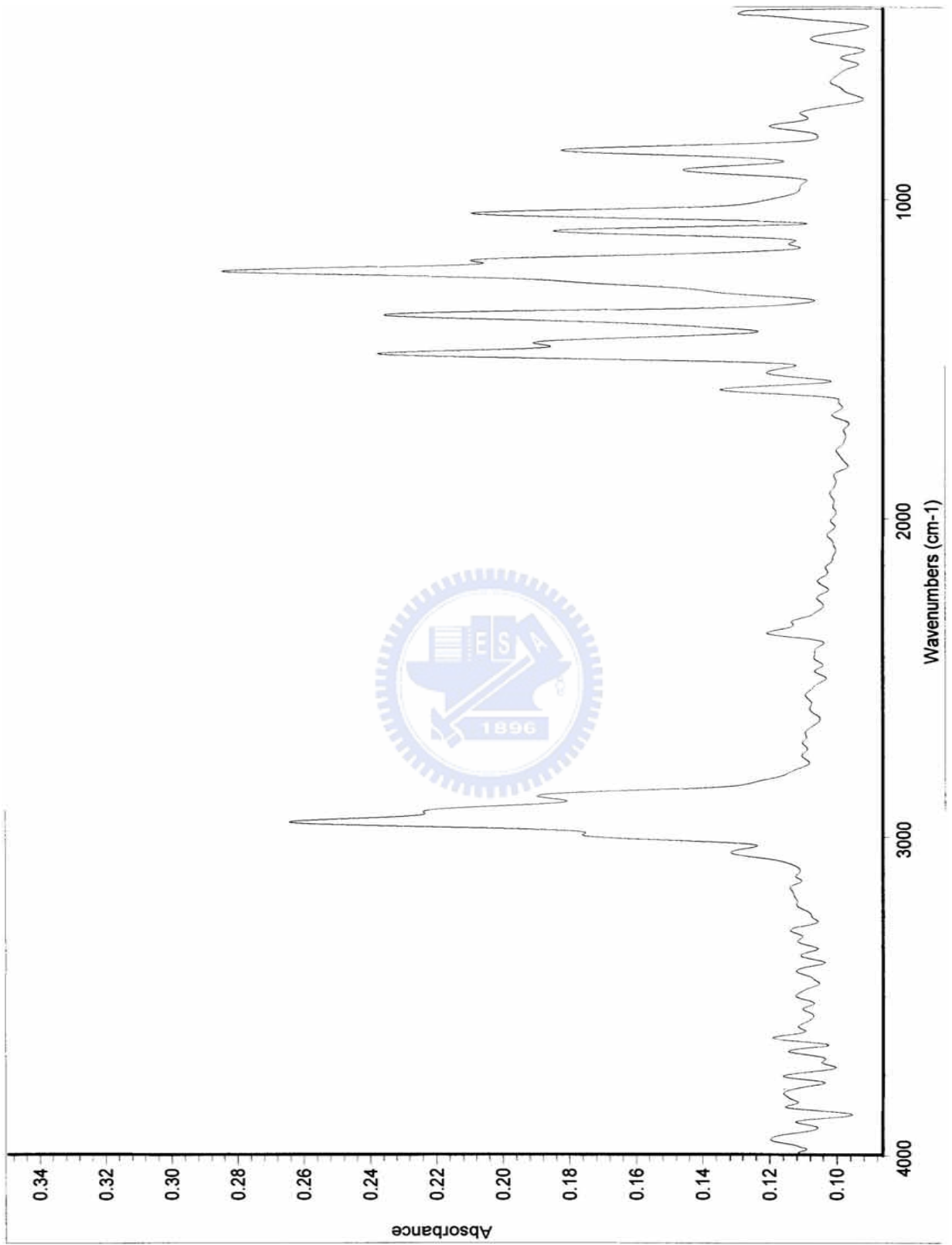


Figure3-7. Epoxy 的紅外線光譜

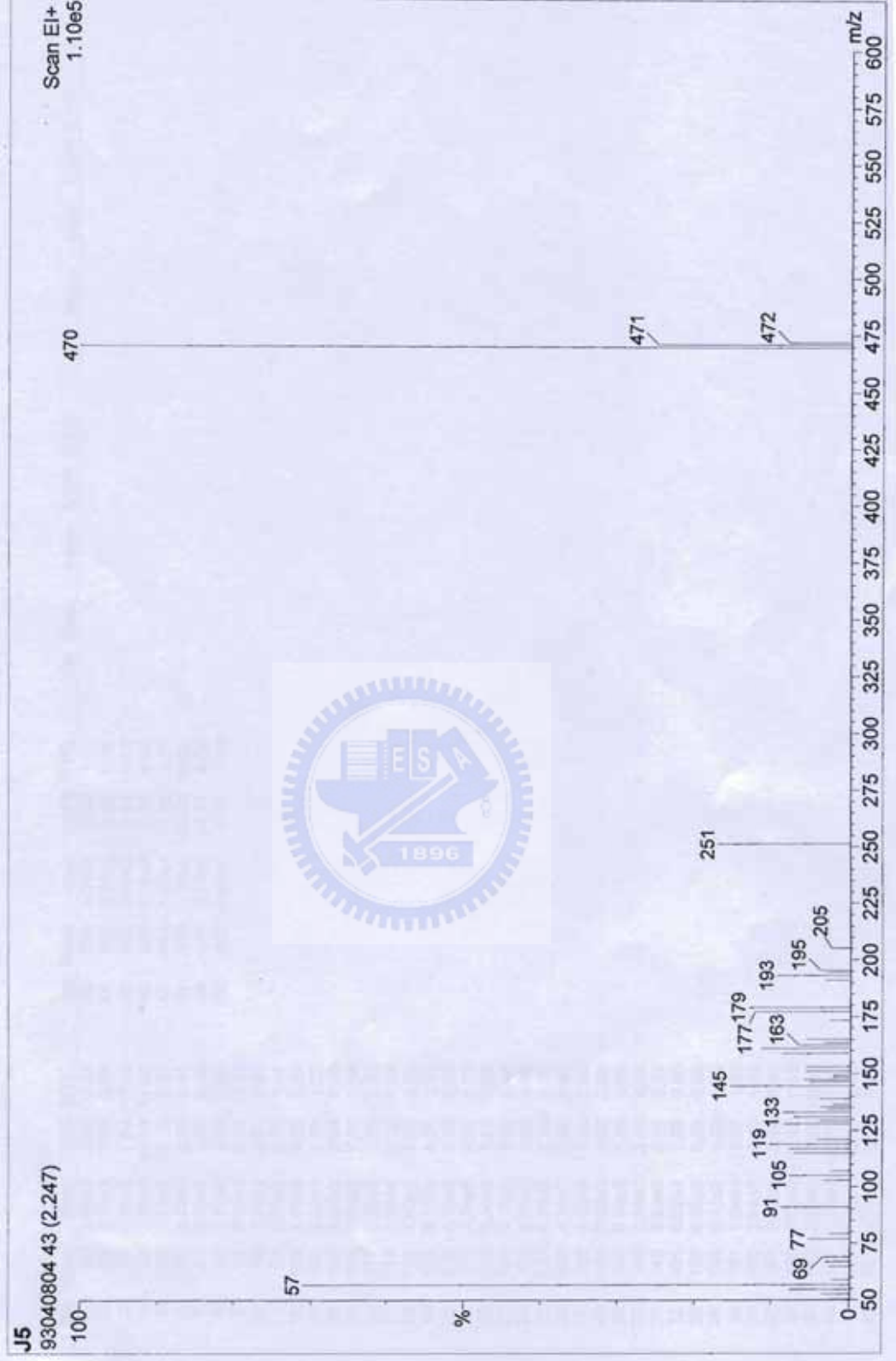


Figure.3-8 Epoxy Mass圖譜



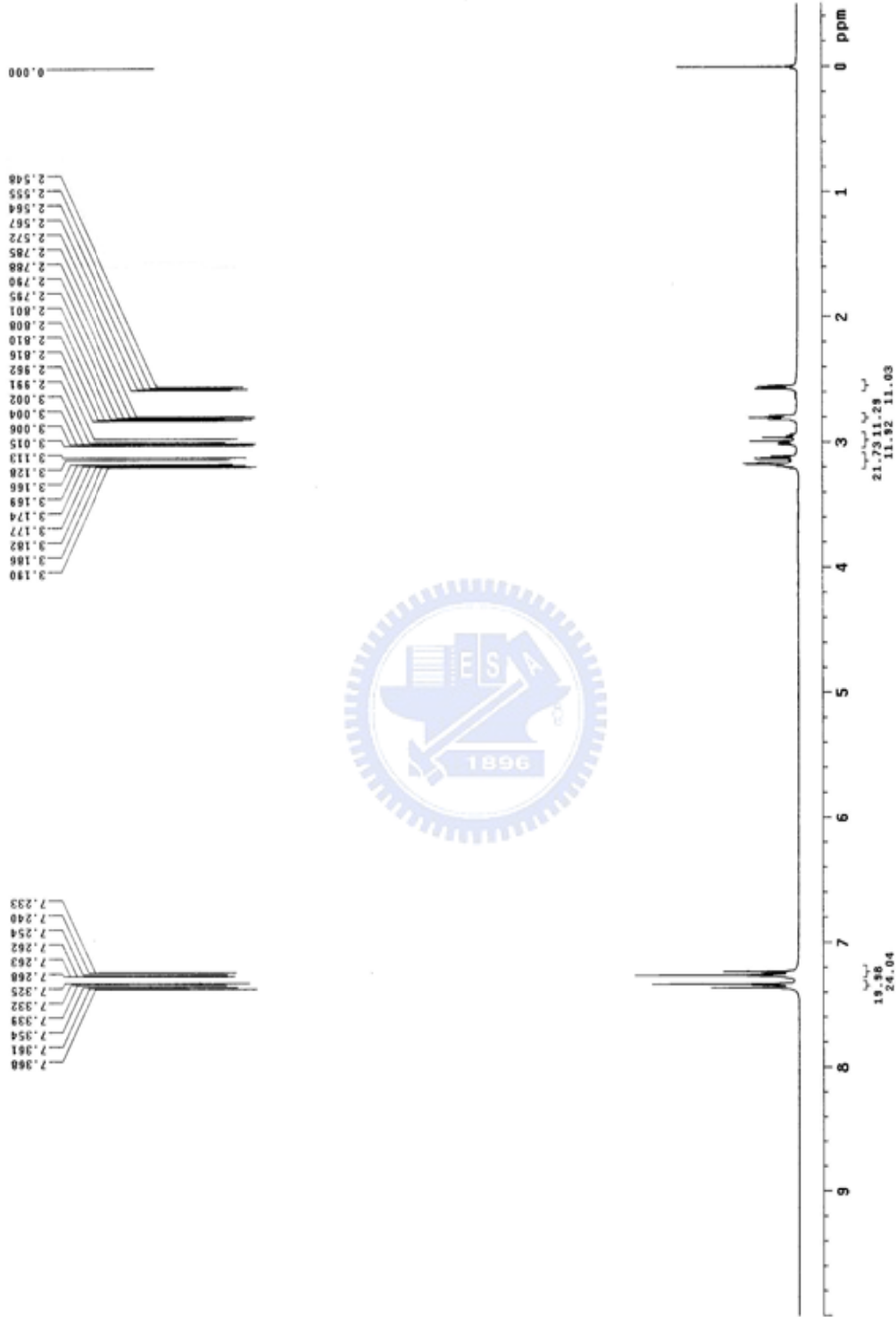
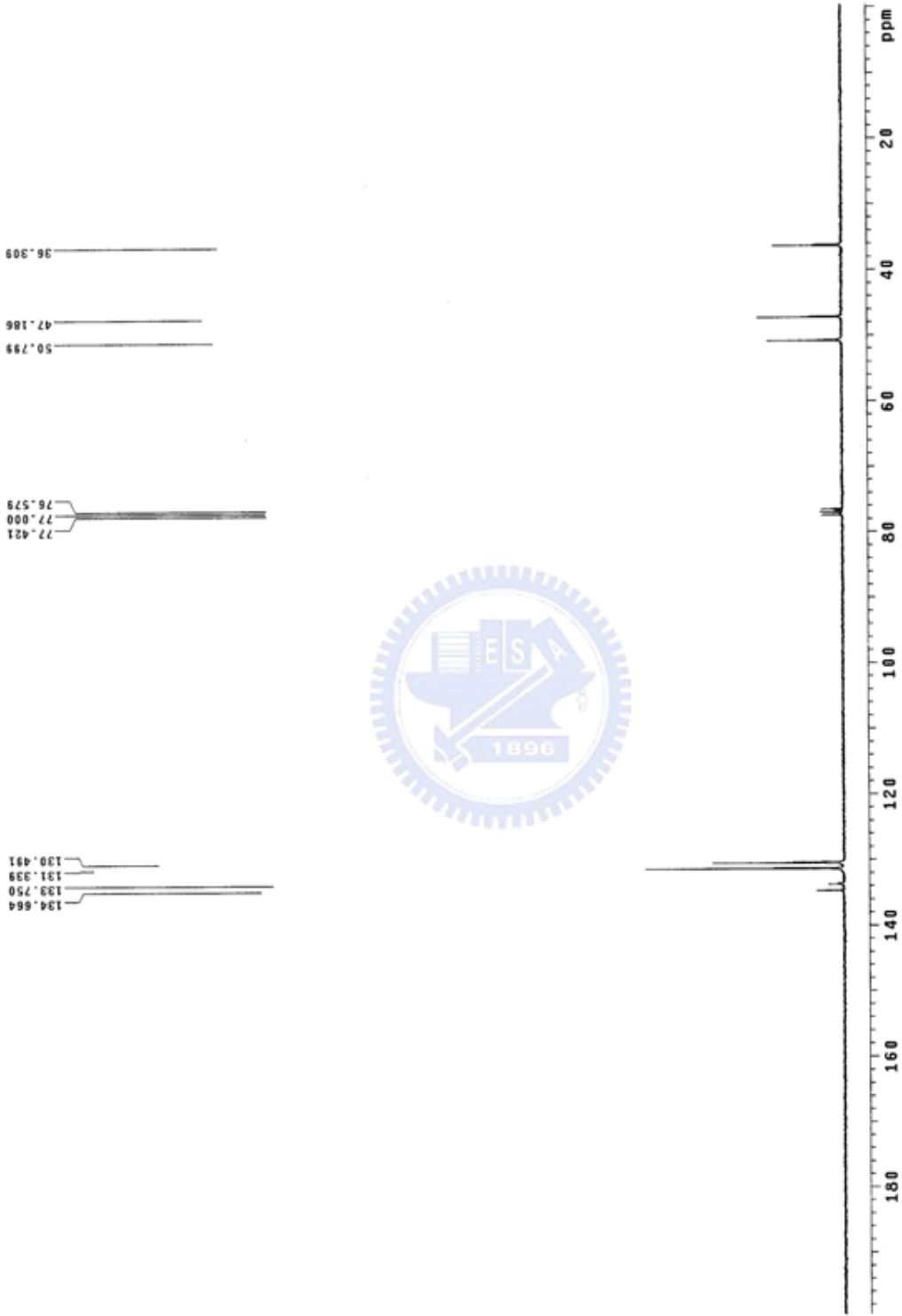
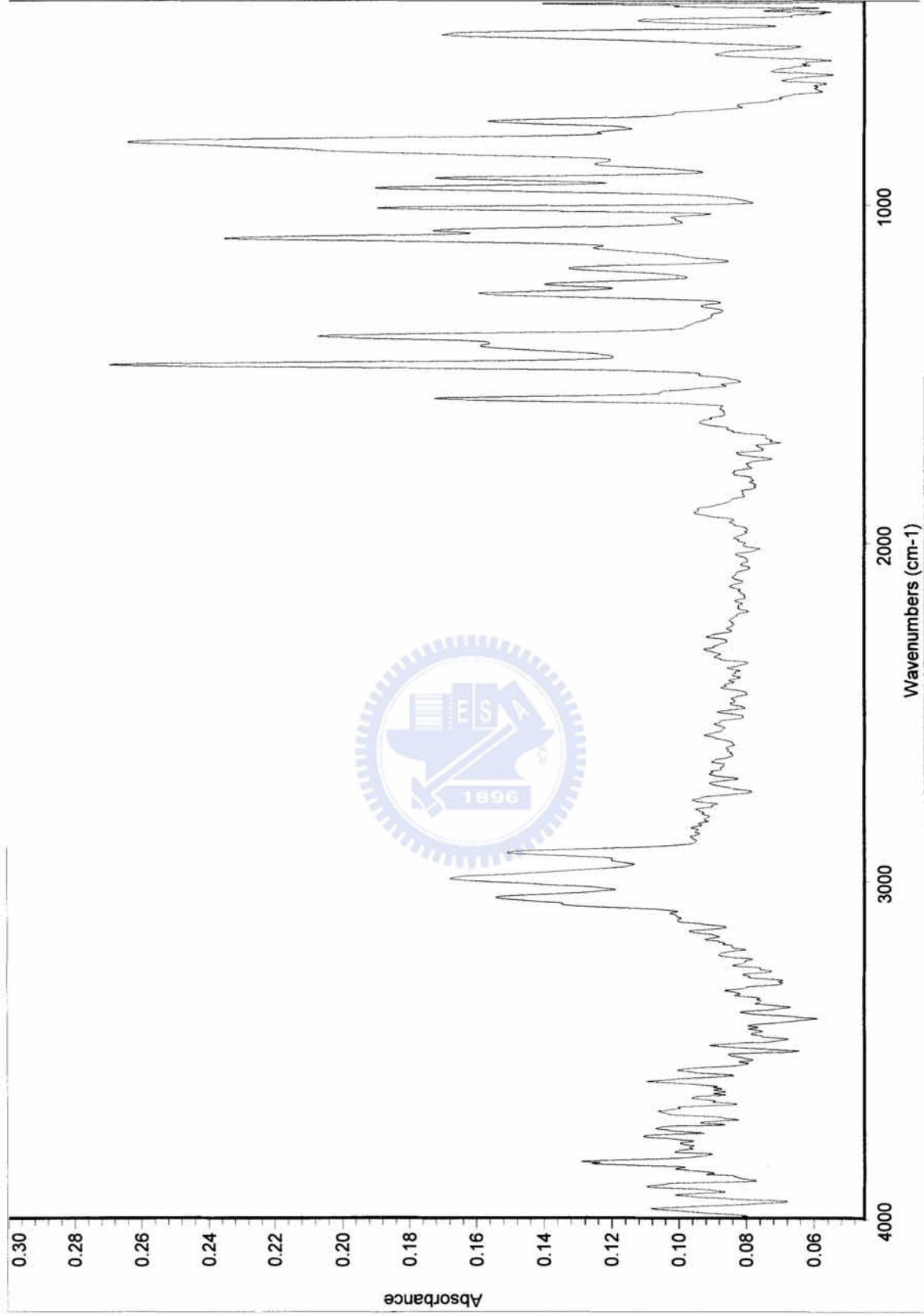


Figure.3-9 Epoxy <sup>1</sup>H-NMR



**Figure.3-10 Epoxy  $^{13}\text{C}$ -NMR**



**Figure3-11. Epoxy 的紅外線光譜**

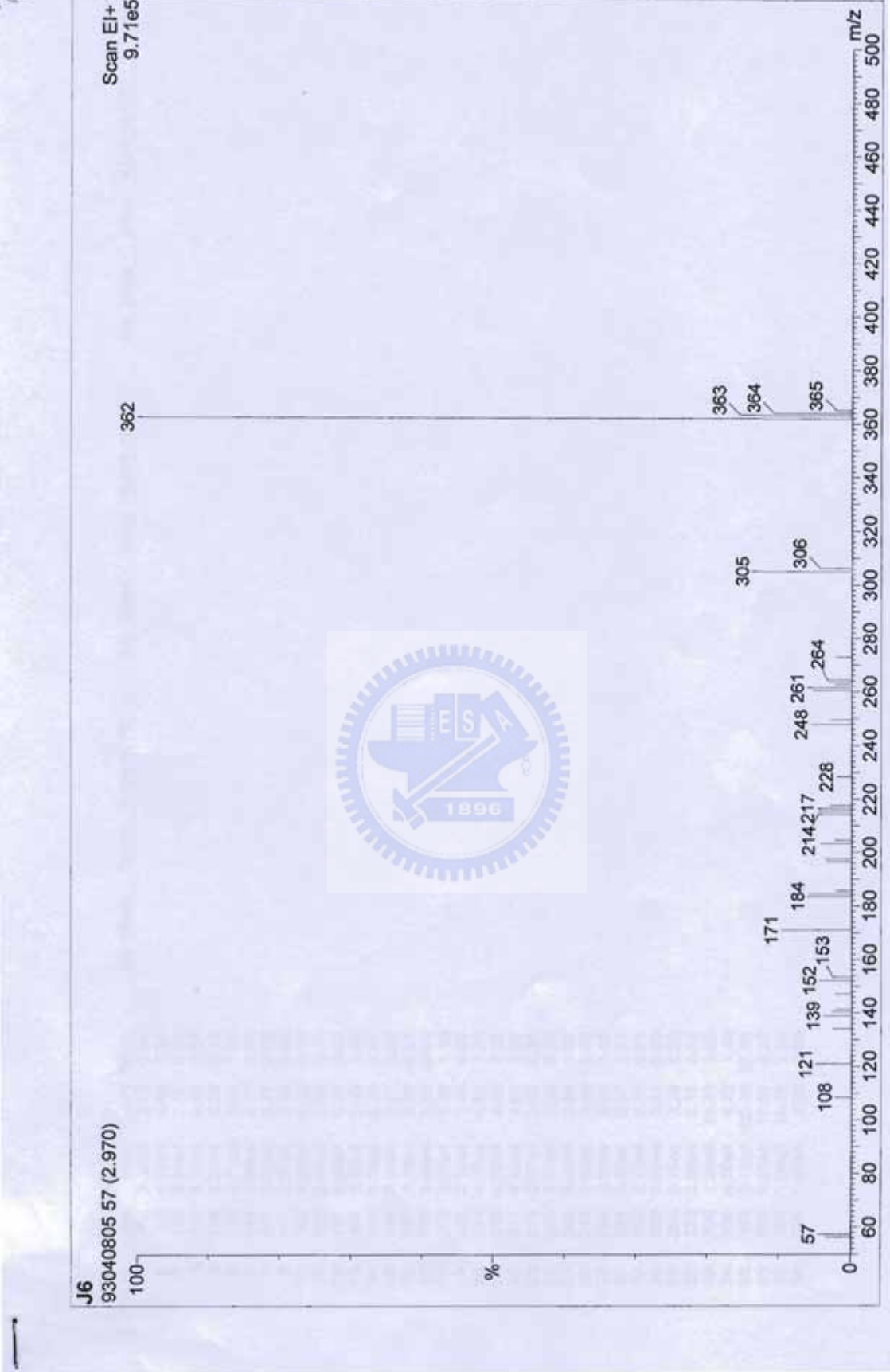
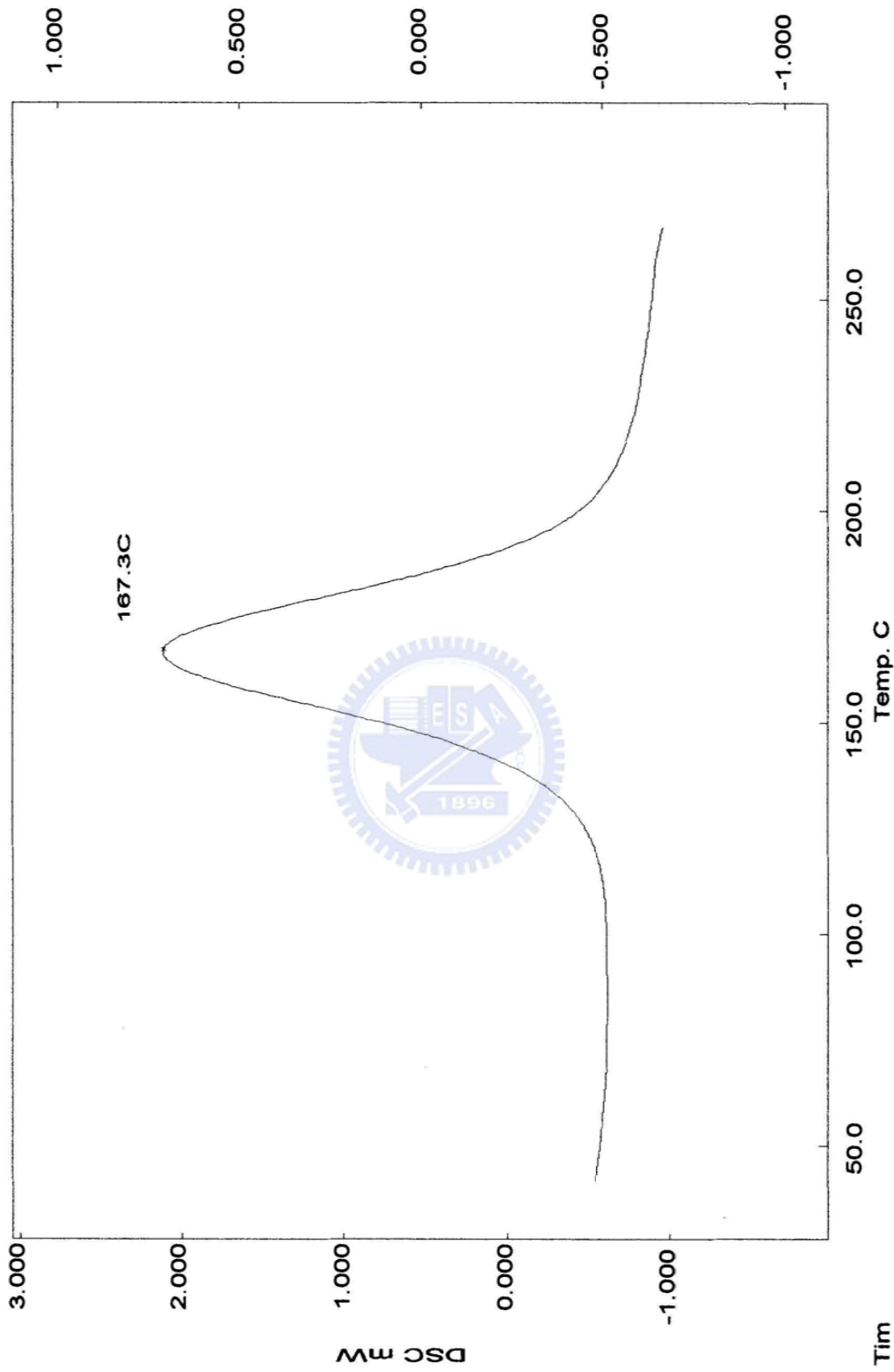
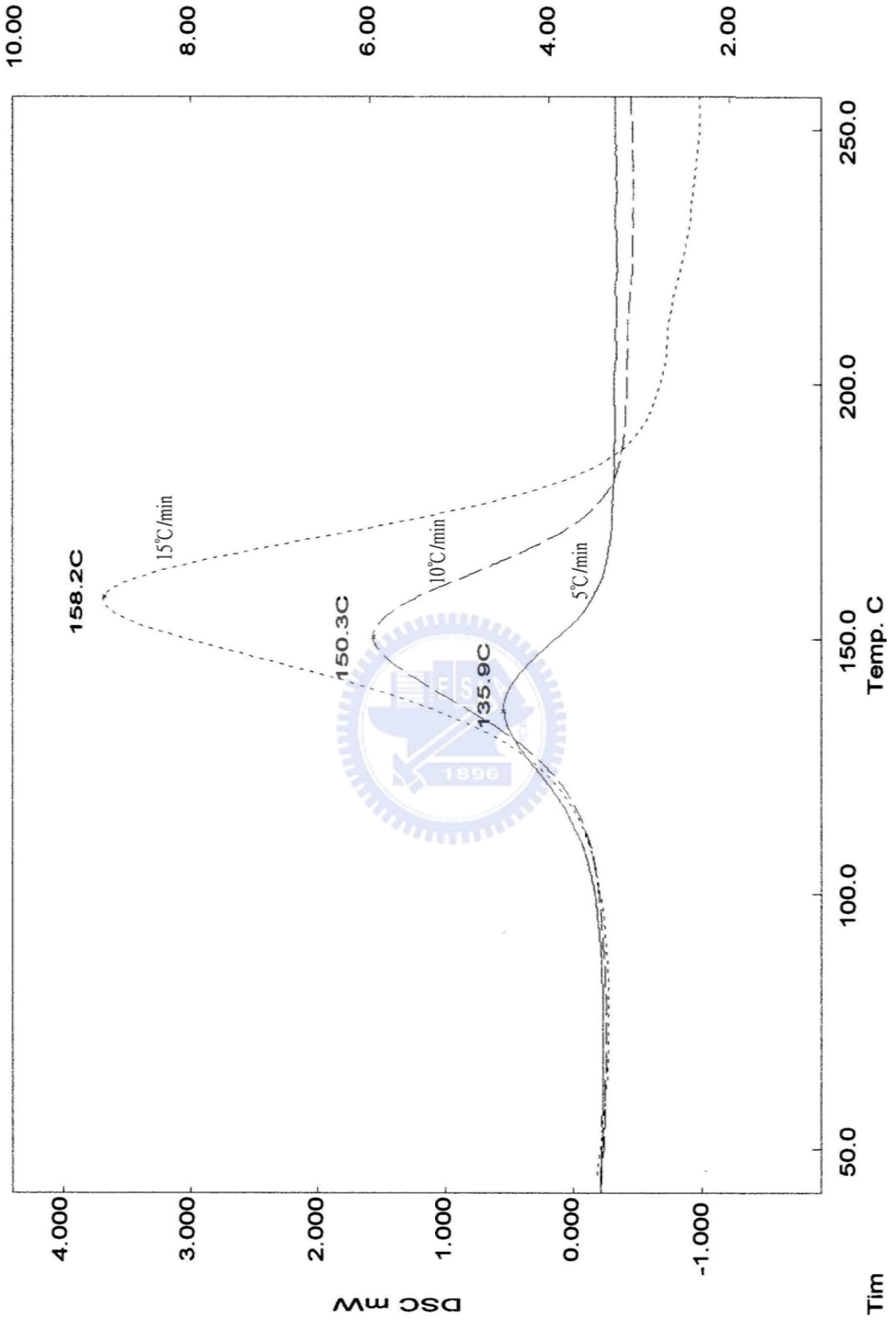


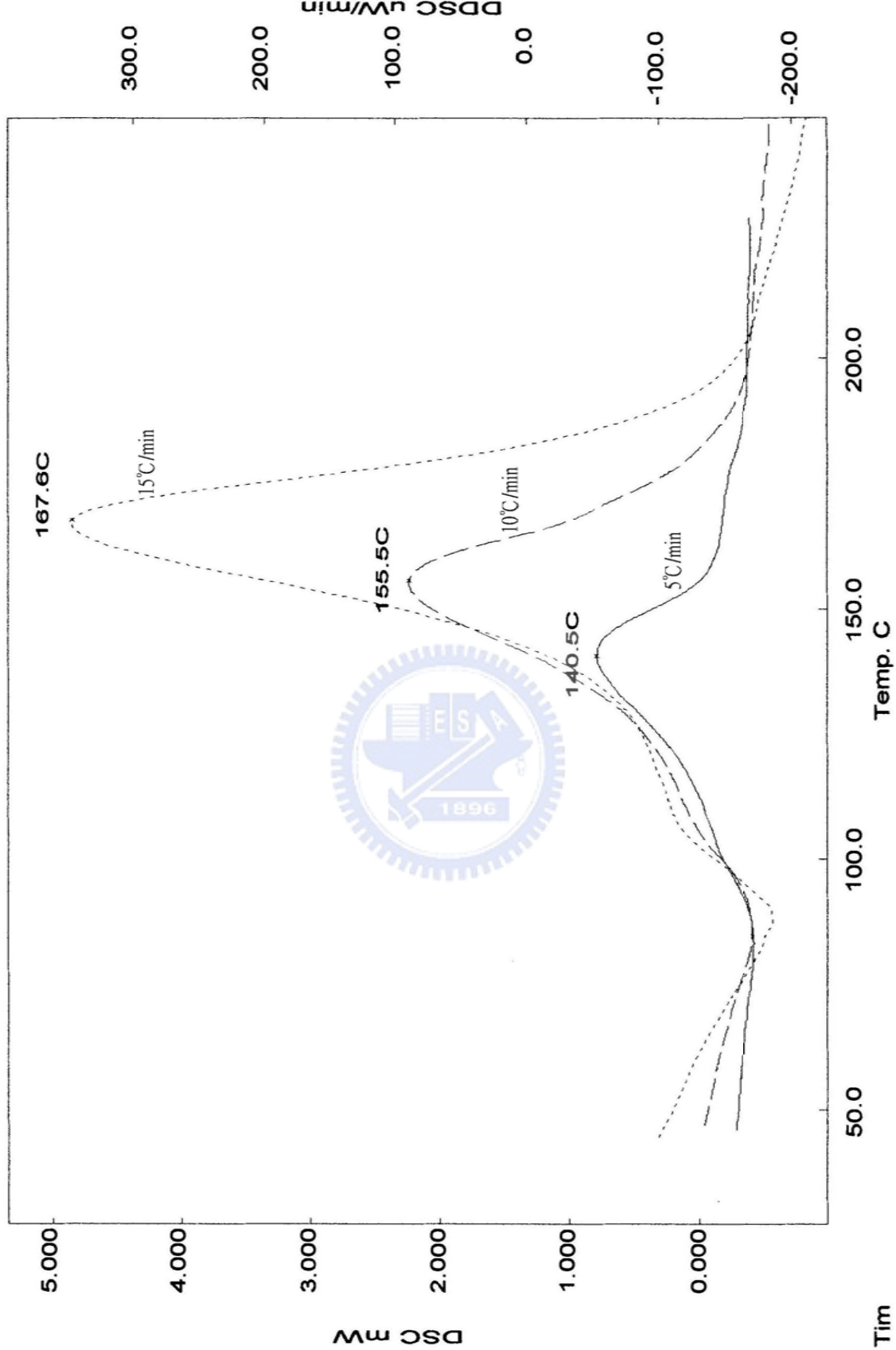
Figure.3-12 Epoxy Mass圖譜



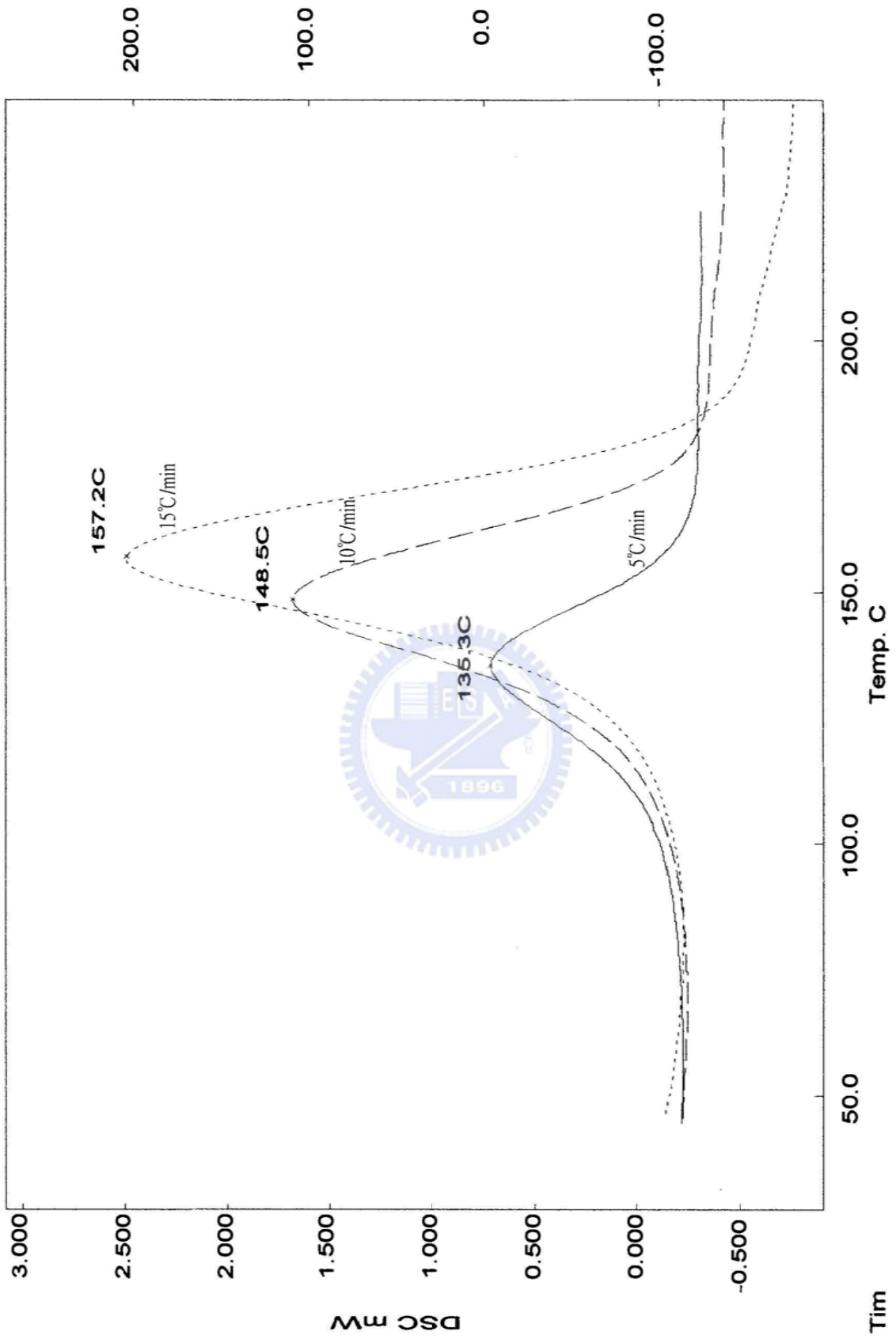
**Figure.3-13 Dynamic DSC of 830LVP/CA**



**Figure.3-14 Dynamic DSC of Epoxy / CA**

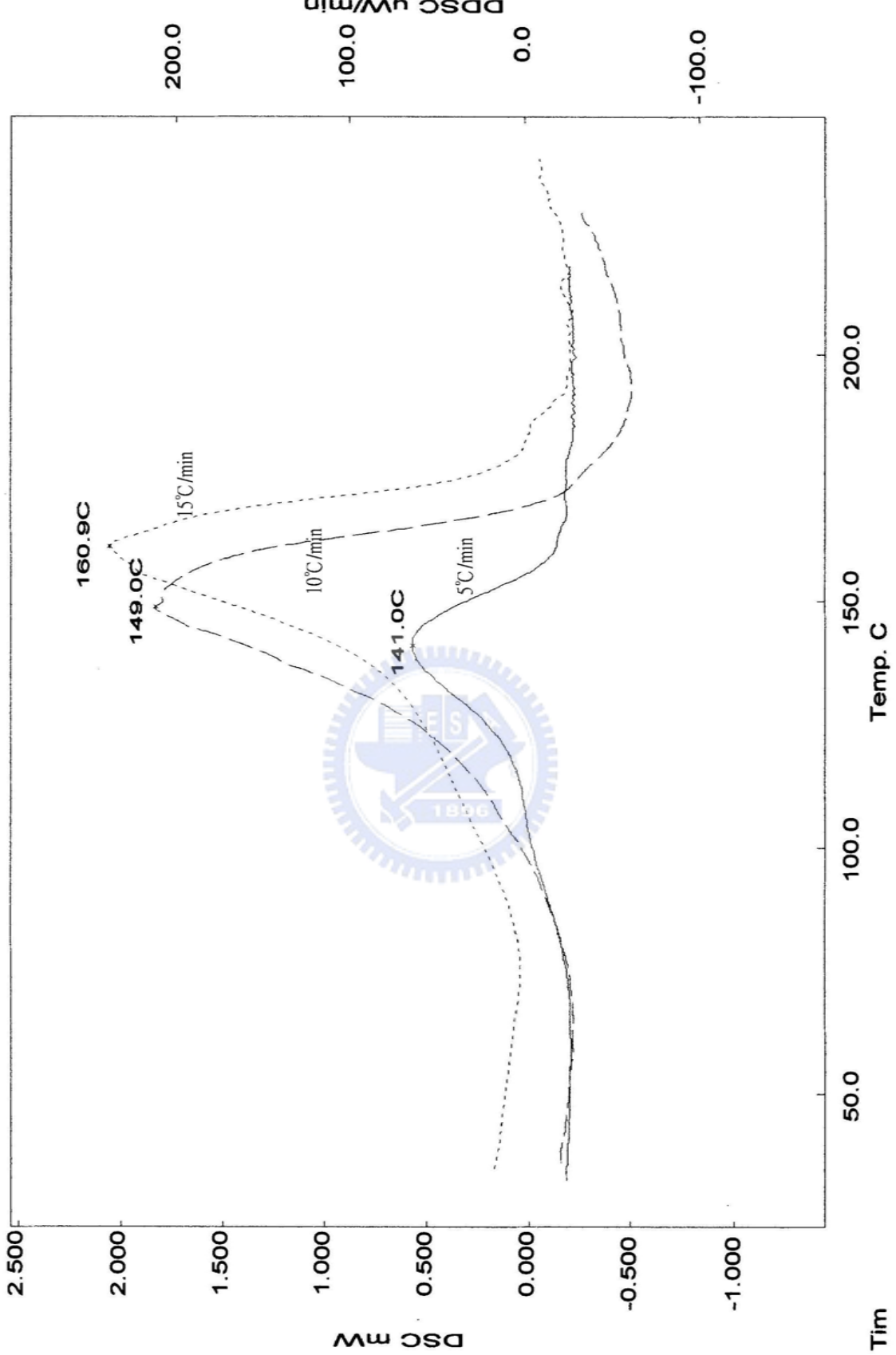


**Figure.3-15 Dynamic DSC of Epoxy / CA**

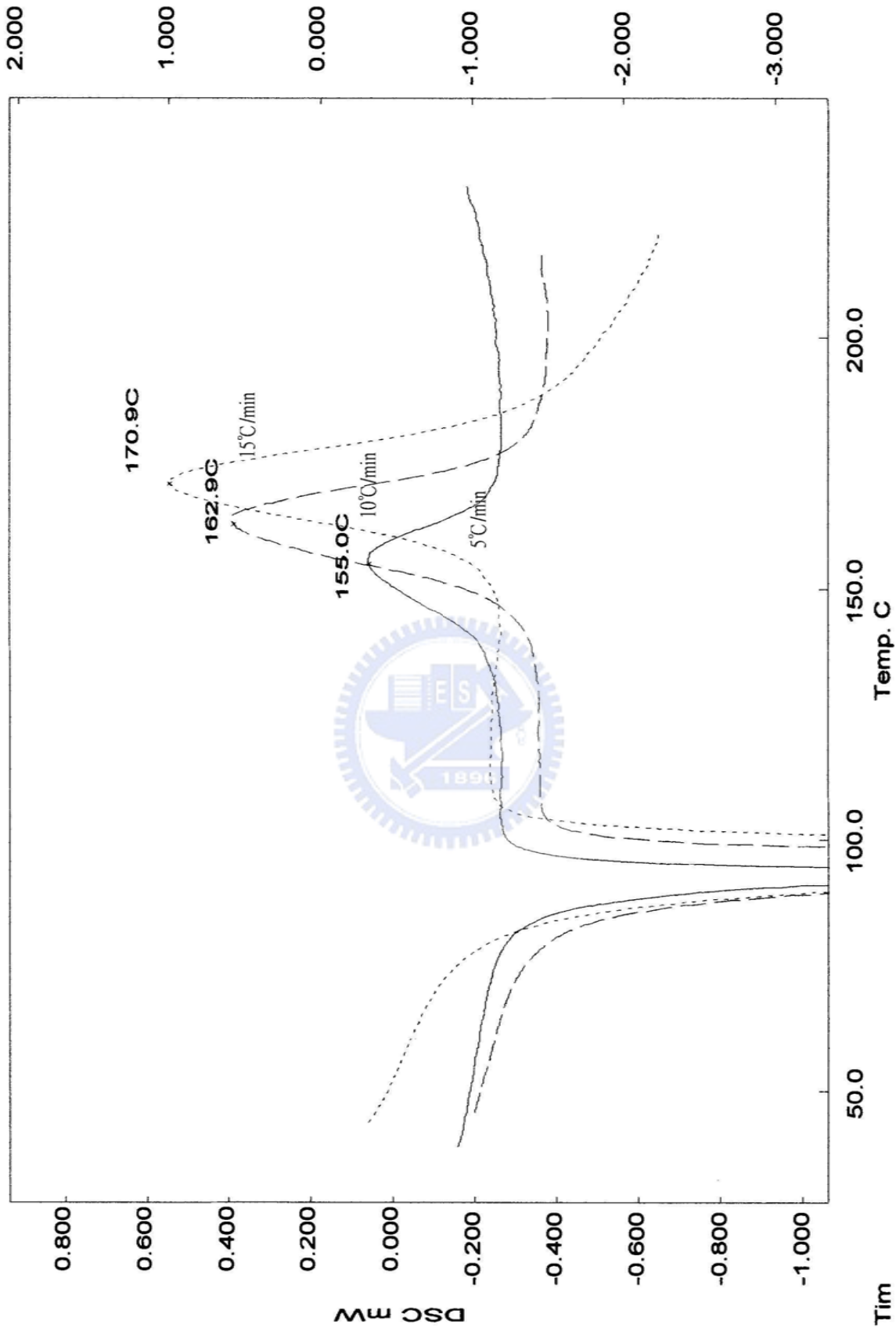


**Figure.3-16 Dynamic DSC of Epoxy / CA**





**Figure.3-17 Dynamic DSC of Epoxy / CA**



**Figure.3-18 Dynamic DSC of Epoxy / CA**

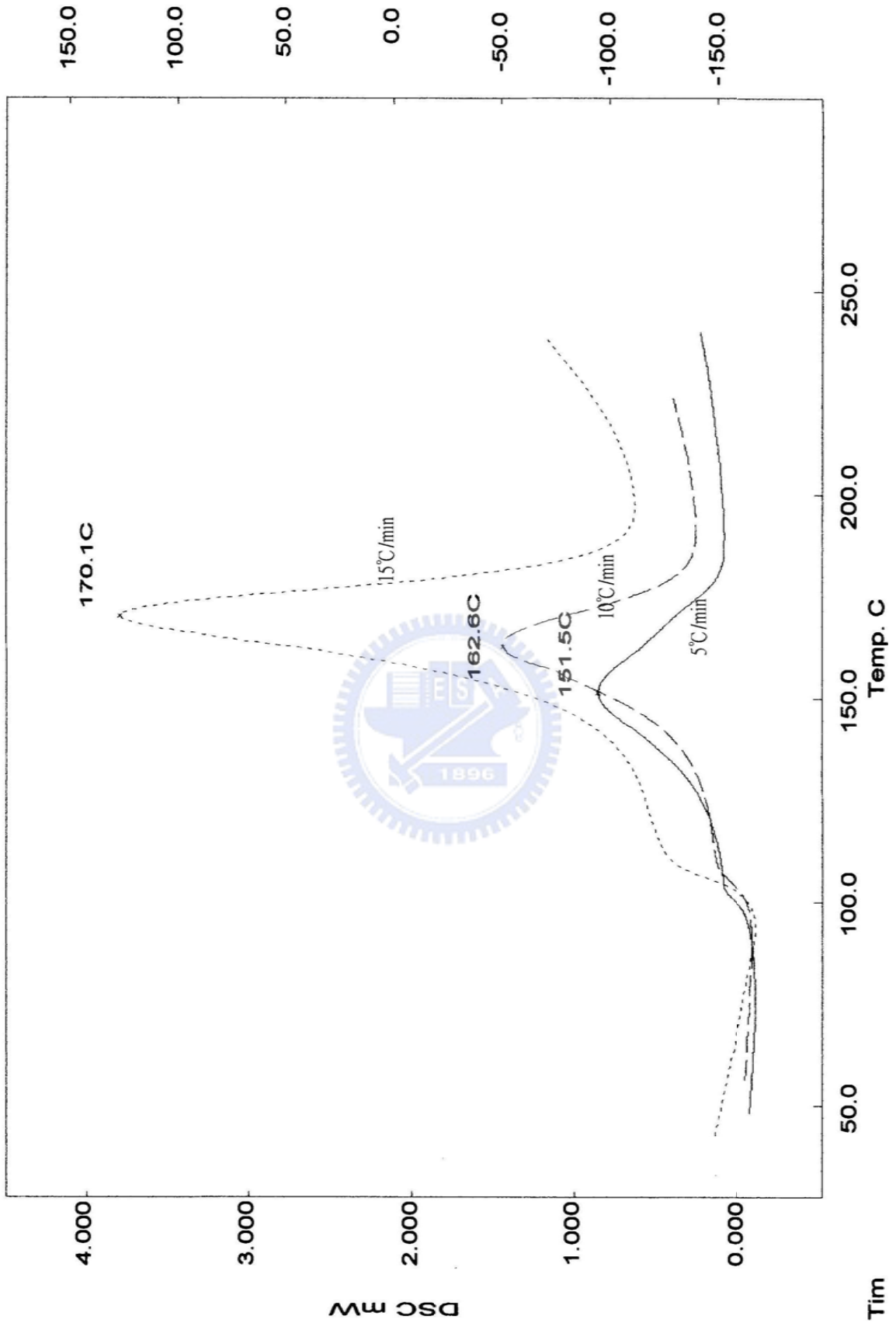
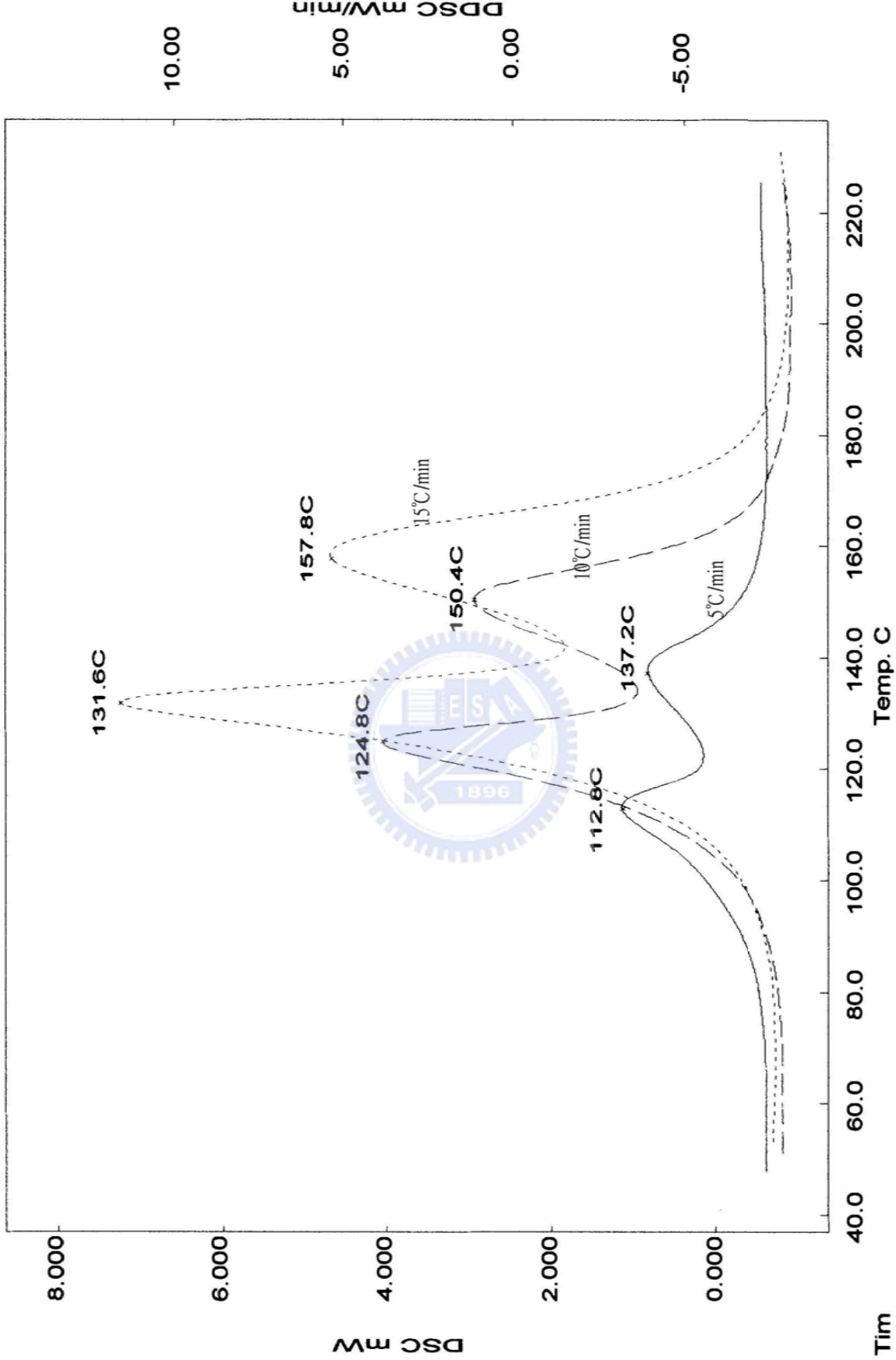
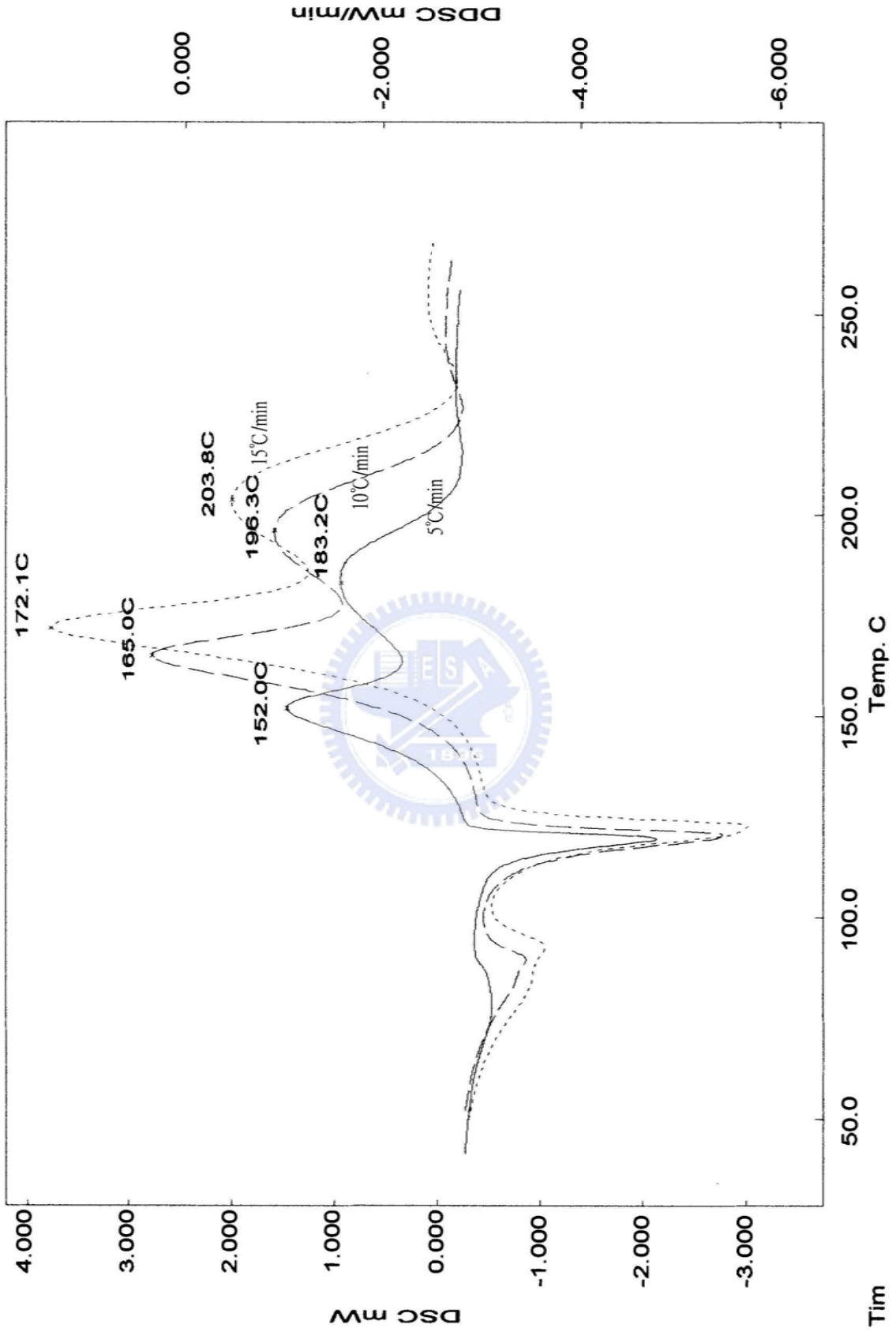


Figure.3-19 Dynamic DSC of Epoxy / CA



**Figure.3-20 Dynamic DSC of Epoxy / CA**



**Figure.3-21 Dynamic DSC of Epoxy / CA**

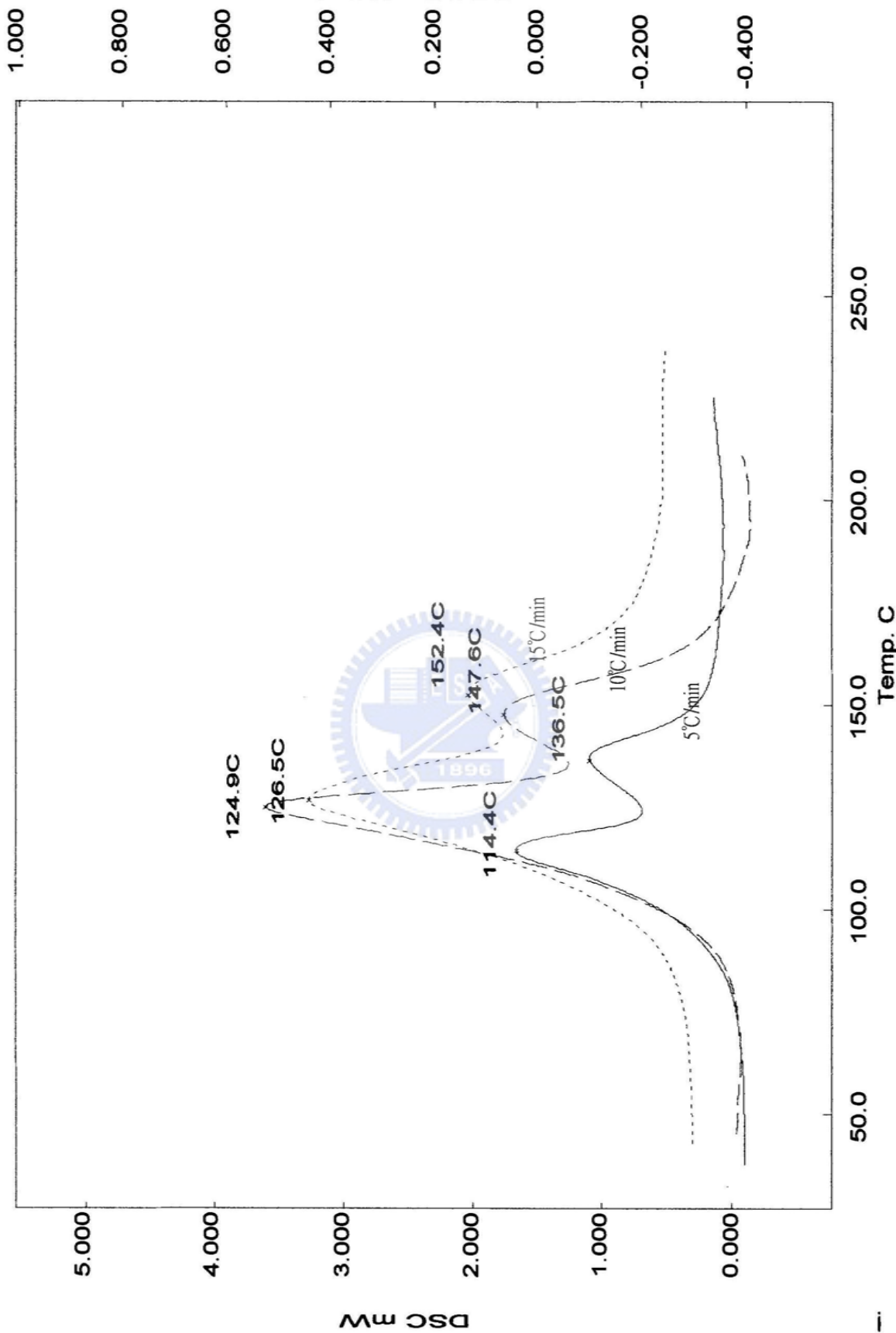
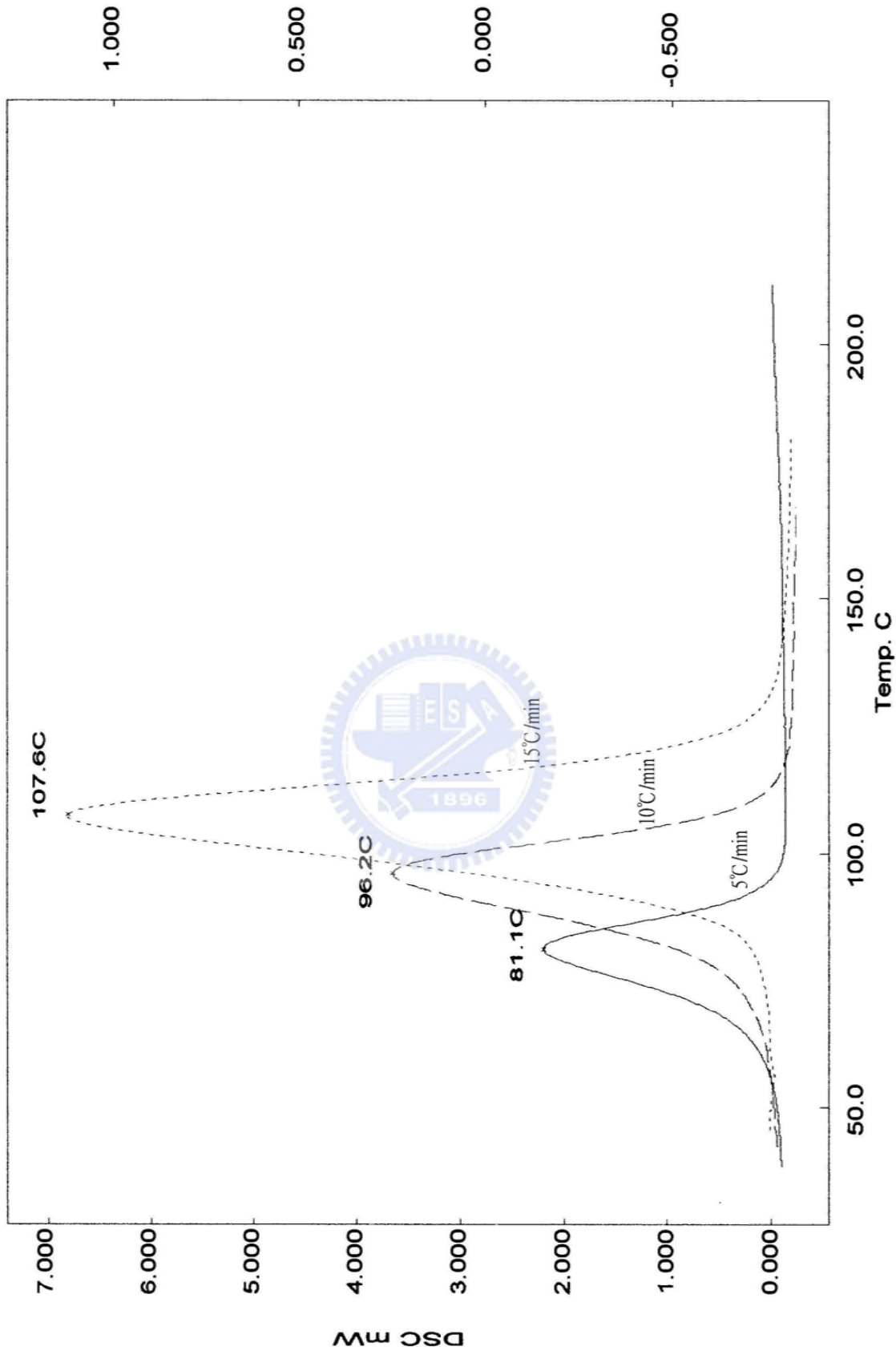
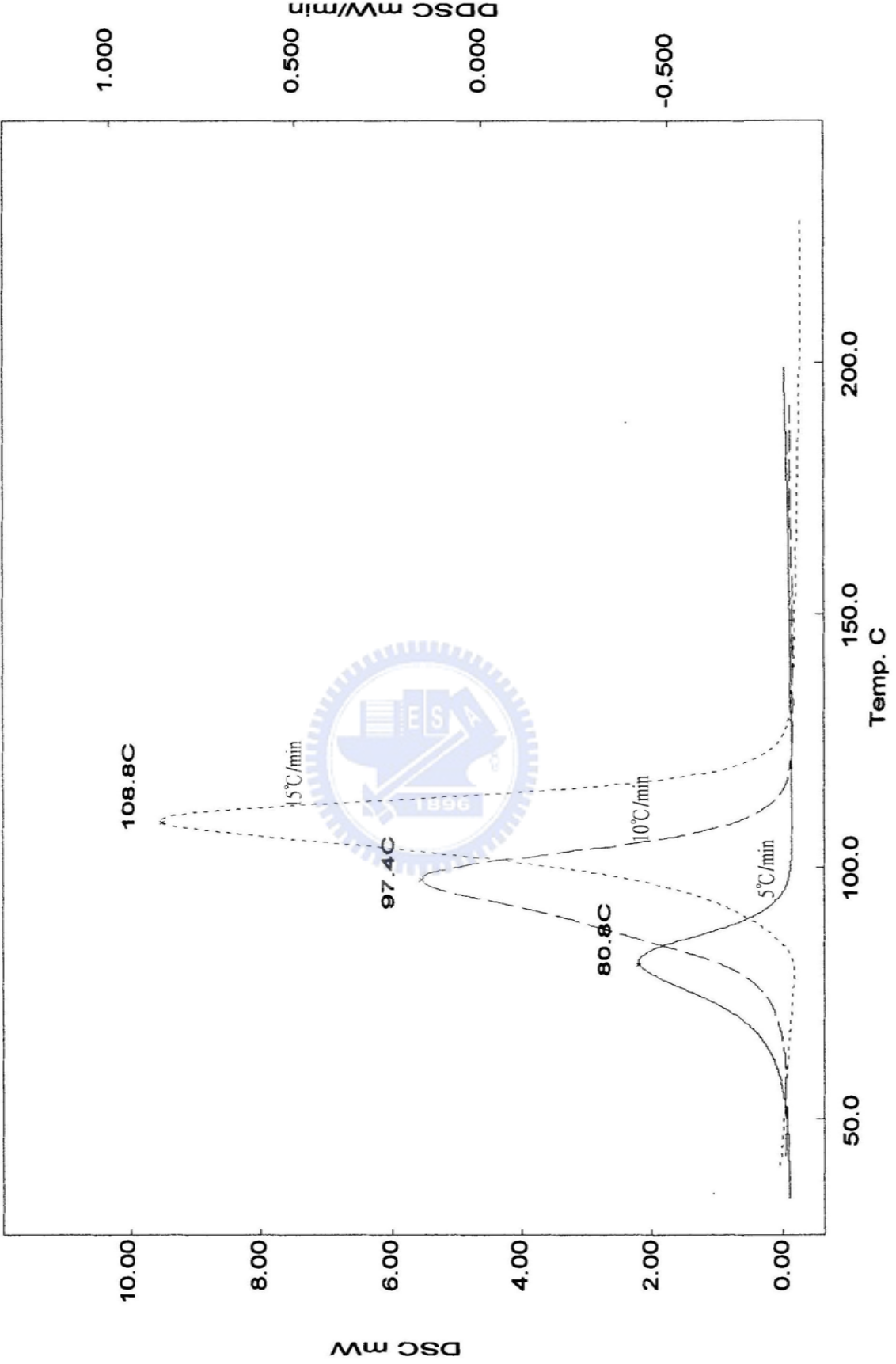


Figure.3-22 Dynamic DSC of Epoxy / CA



**Figure.3-23 Dynamic DSC of Epoxy / CA**



**Figure.3-24 Dynamic DSC of Epoxy / CA**



Ep1/Ca1

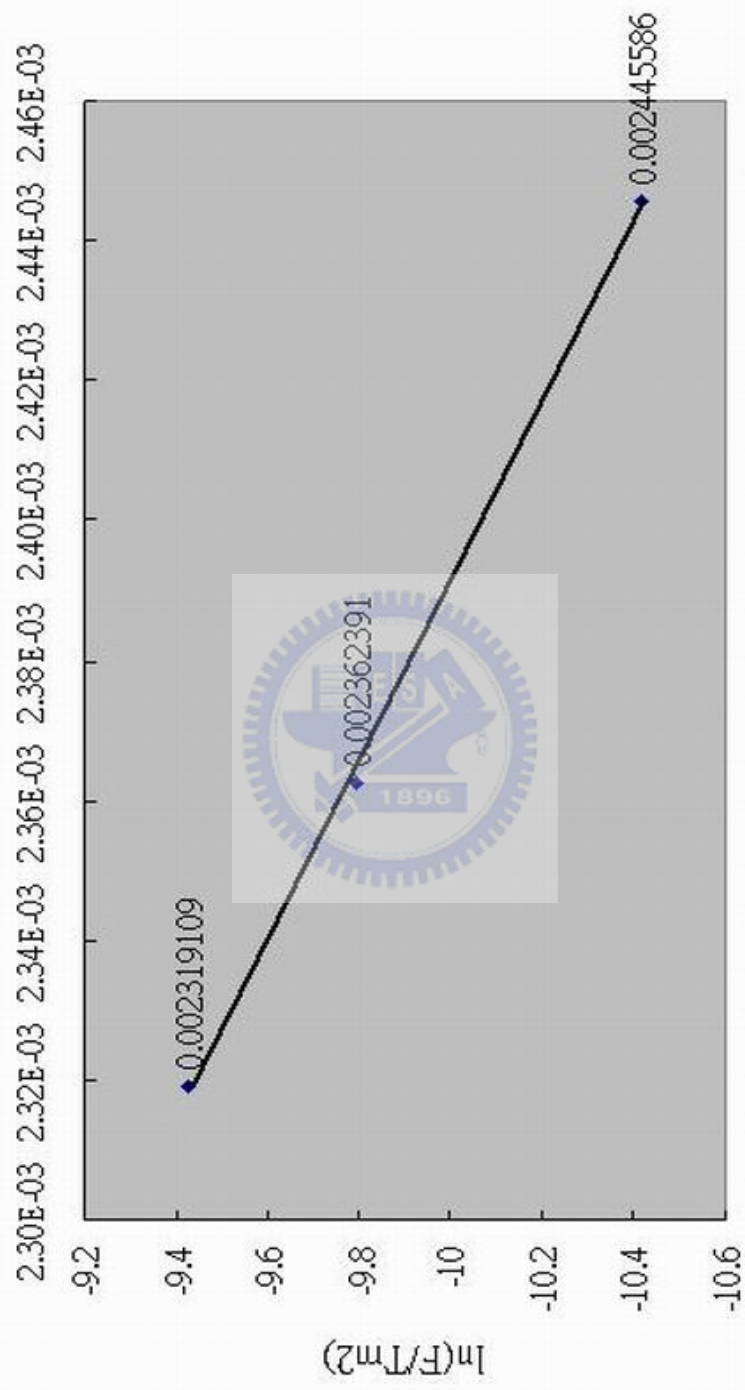


Figure.3-25 Epoxy / CA  $\ln(F/Tm^2)$ 對 $1/Tm$ 做圖

Ep3/Ca1

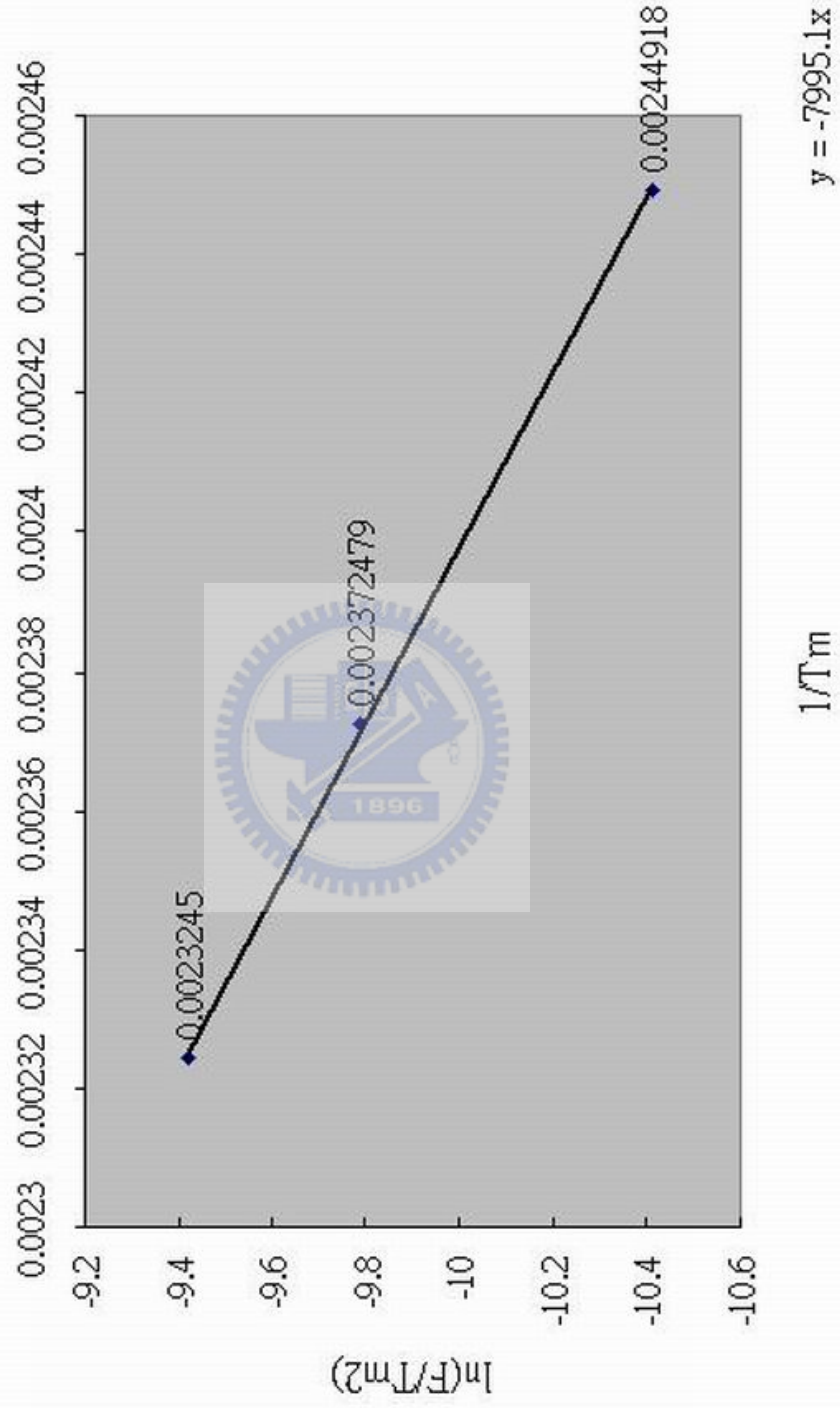


Figure.3-26 Epoxy / CA  $\ln(F/T_m^2)$ 對 $1/T_m$ 做圖

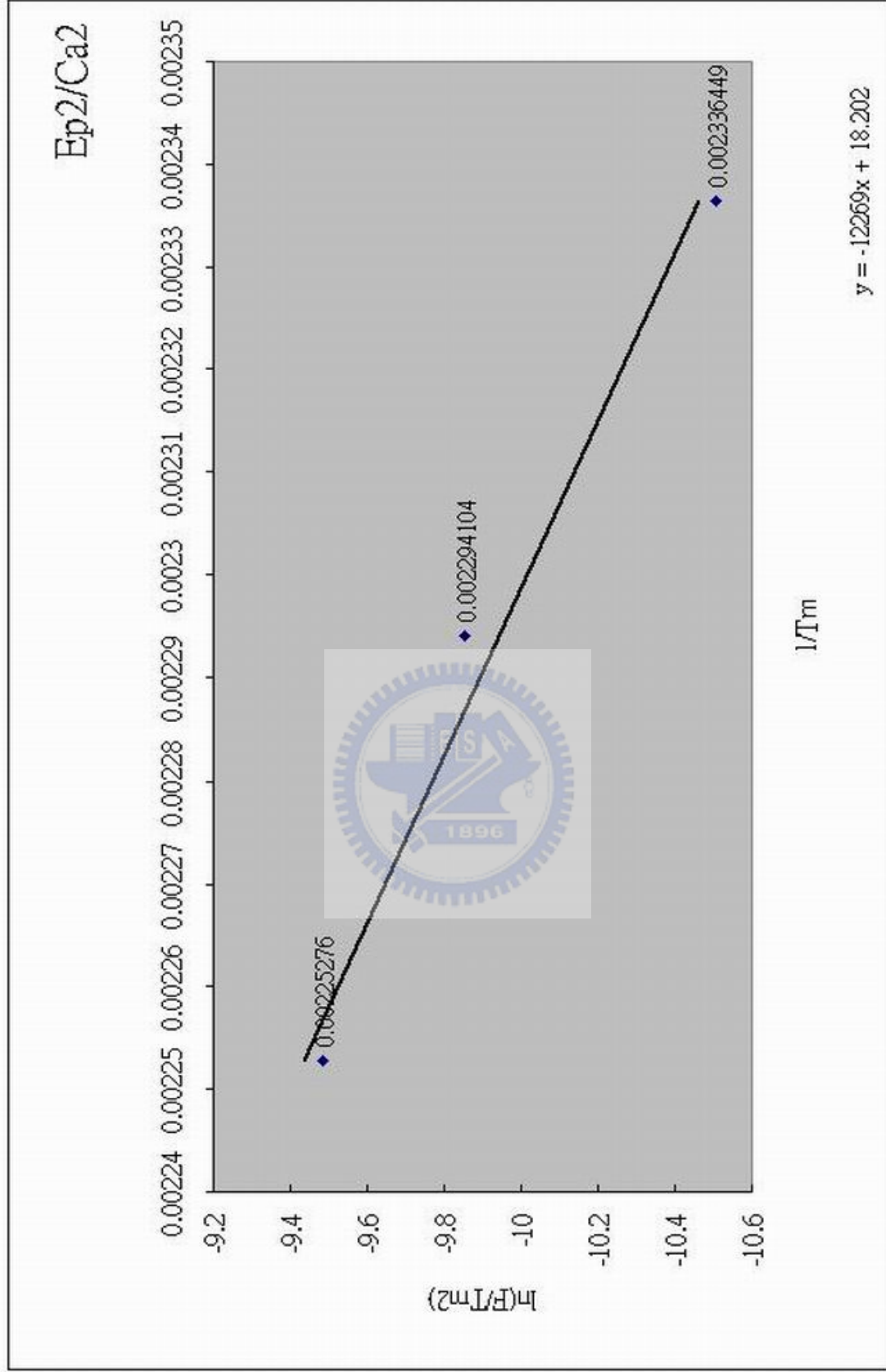


Figure.3-27 Epoxy / CA  $\ln(F/T_m^2)$ 對 $1/T_m$ 做圖

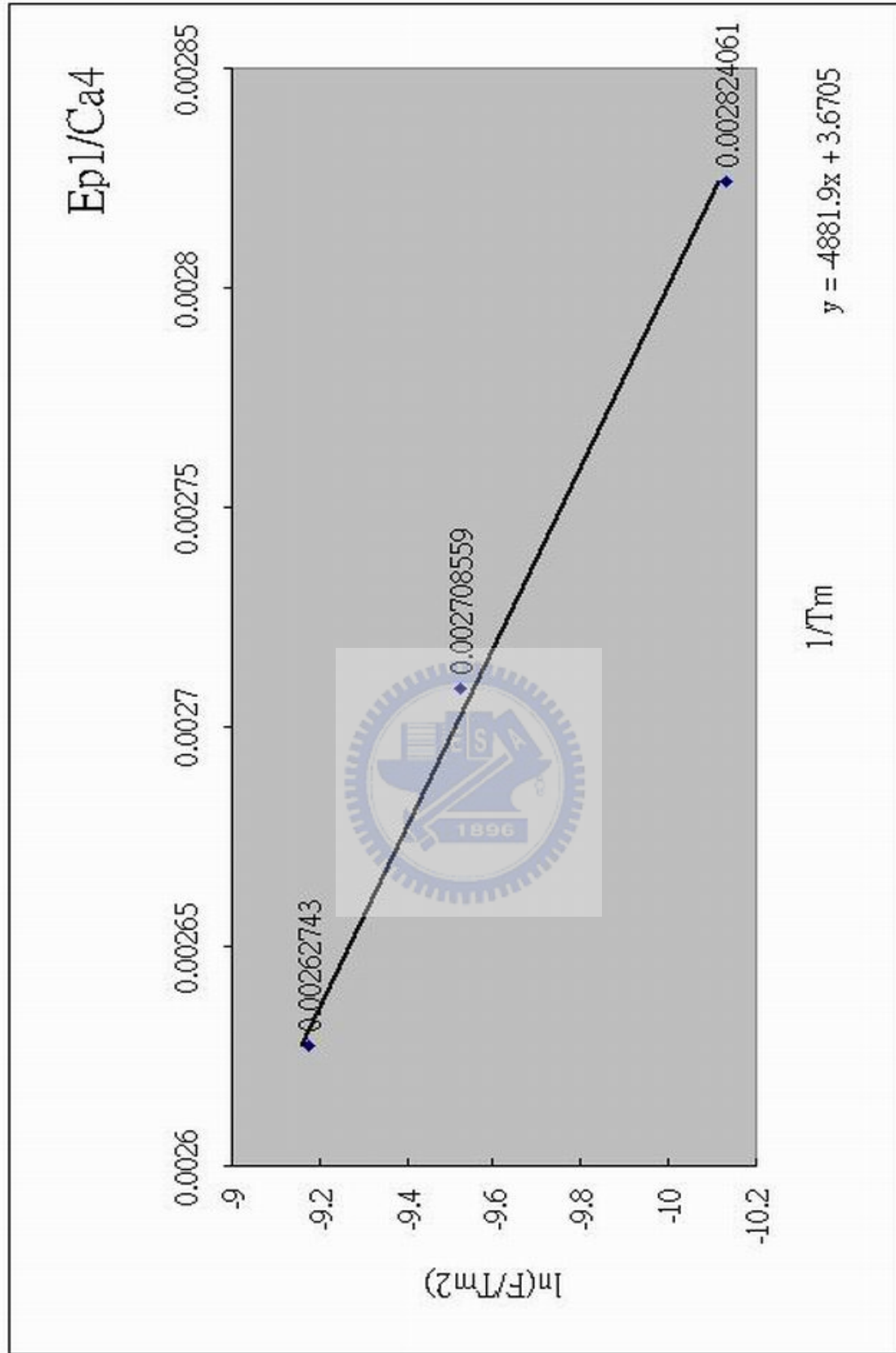


Figure.3-28 Epoxy / Ca  $\ln(F/Tm^2)$ 對 $1/Tm$ 做圖

Ep3+Ca4

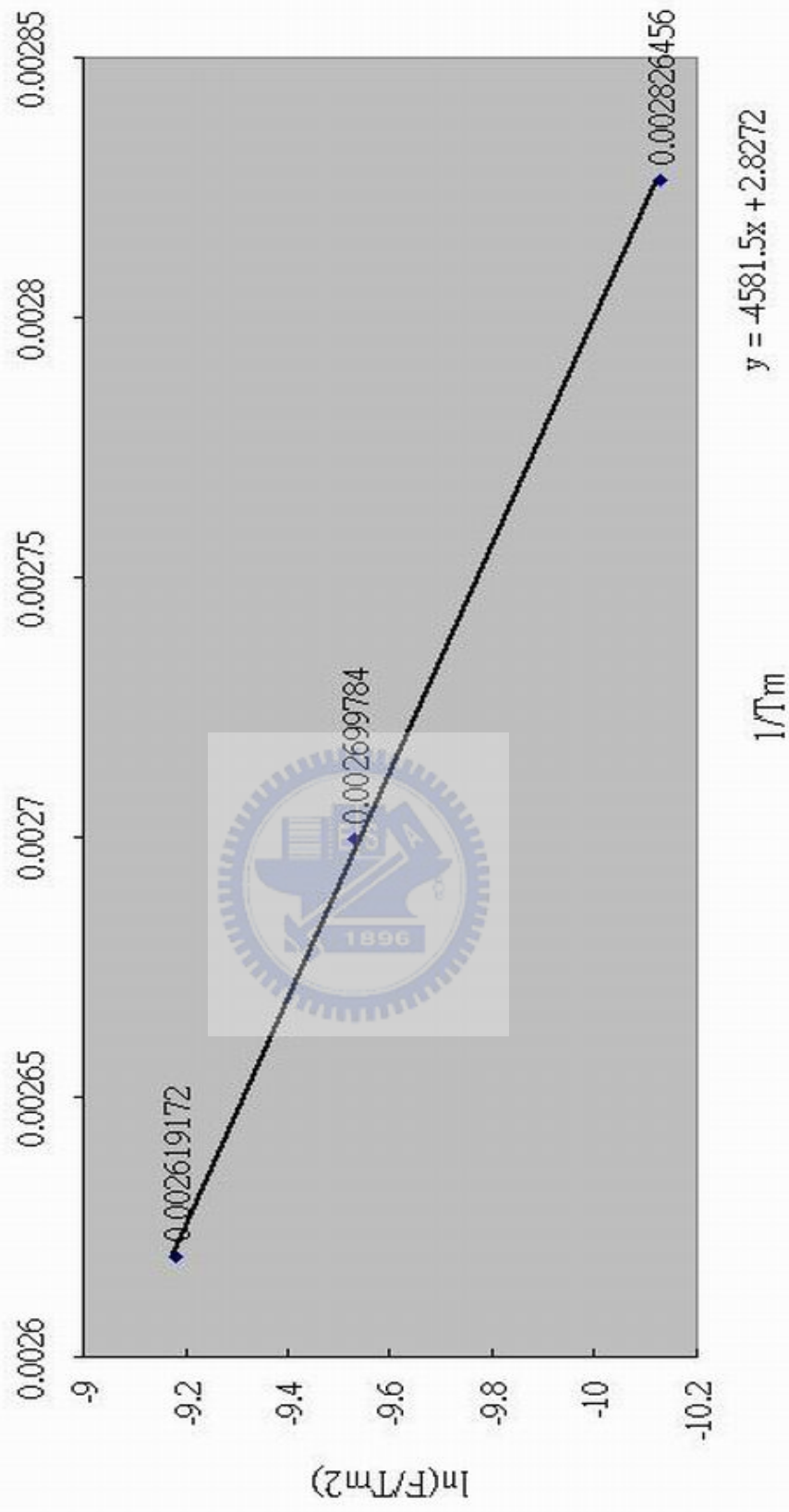
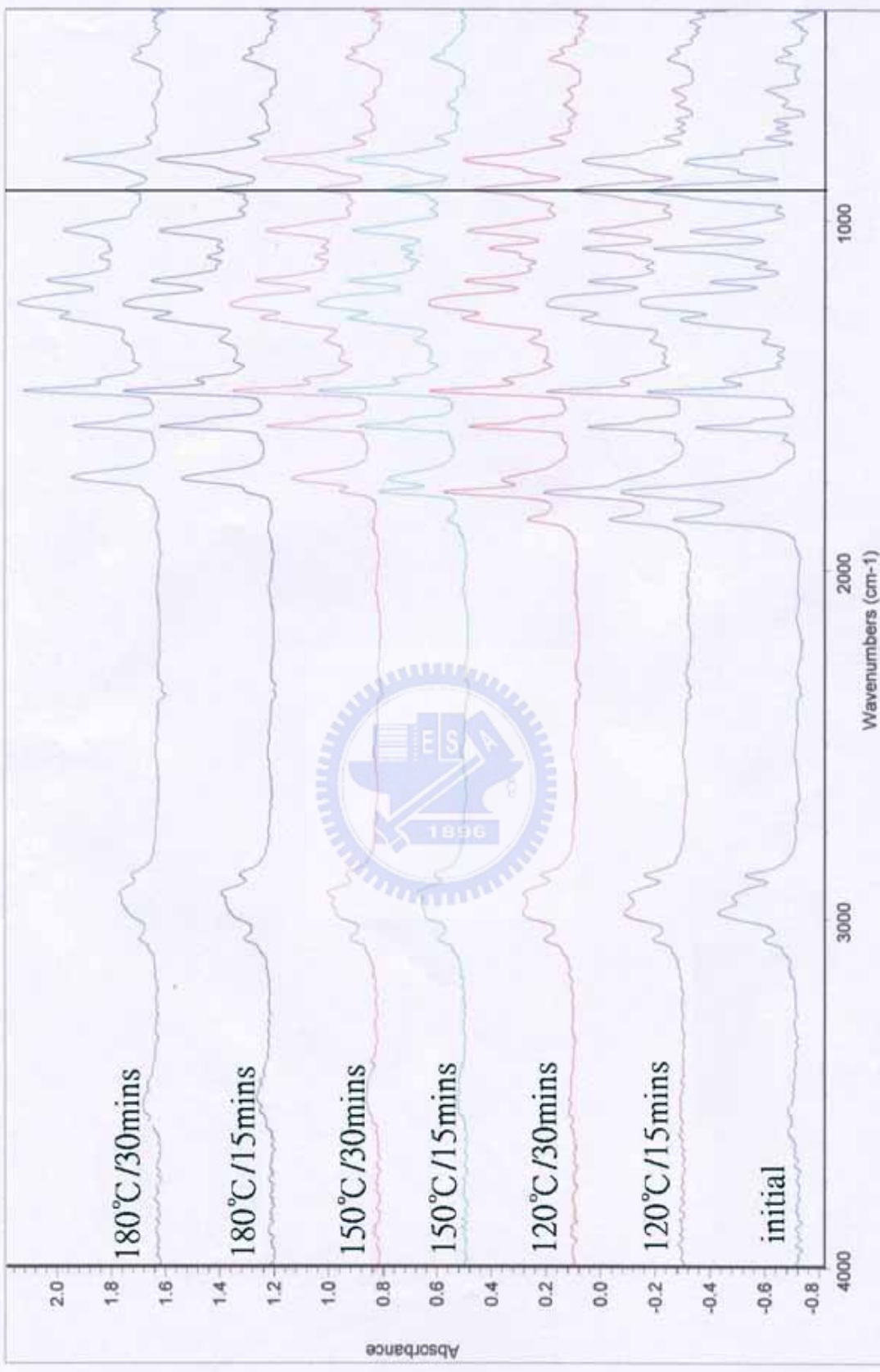
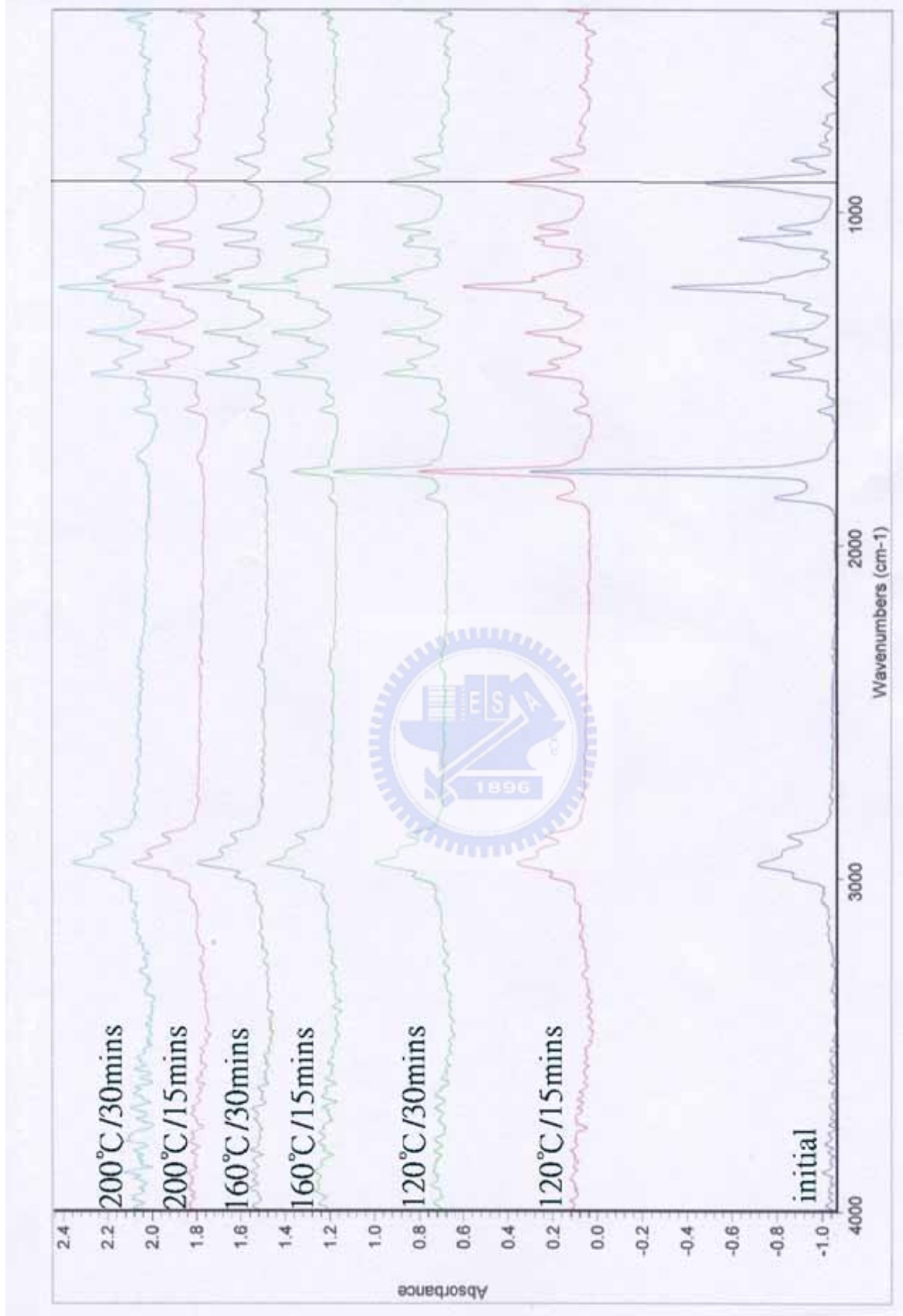


Figure.3-29 Epoxy / CA  $\ln(F/T_m^2)$ 對 $1/T_m$ 做圖

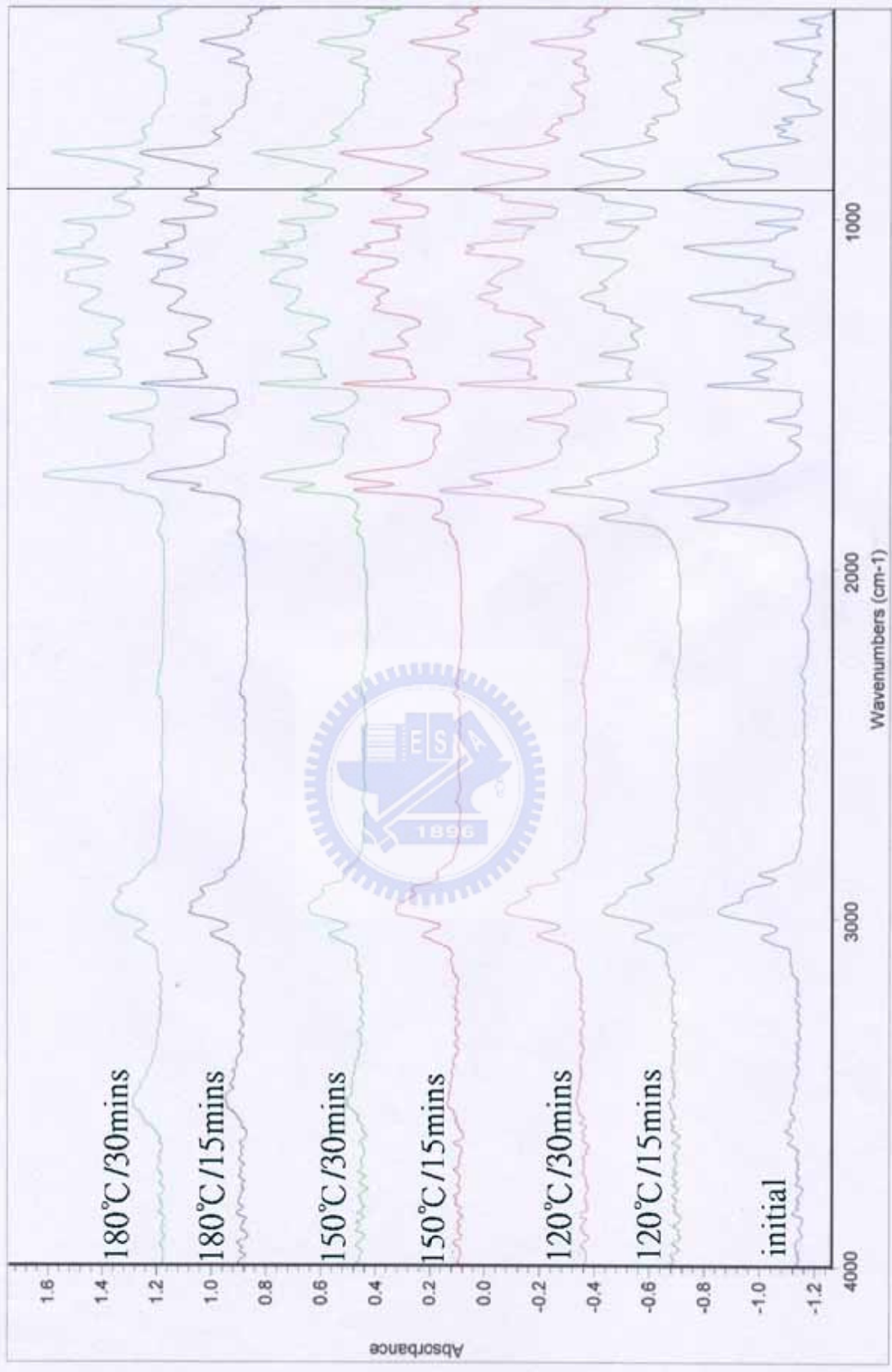


**Figure.3-30 FT-IR spectrum of Epoxy / CA**



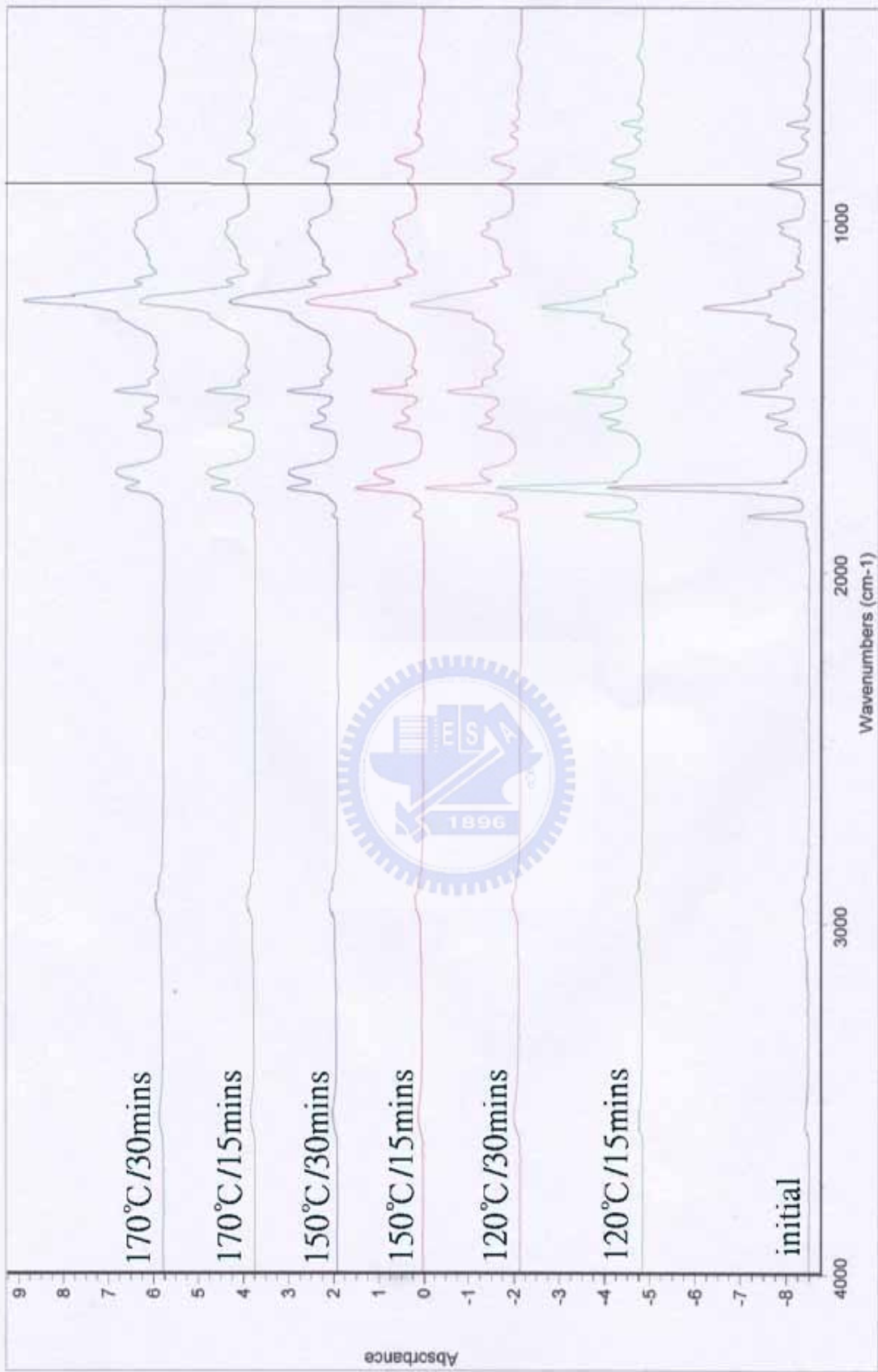
**Figure.3-31 FT-IR spectrum of Epoxy / CA**



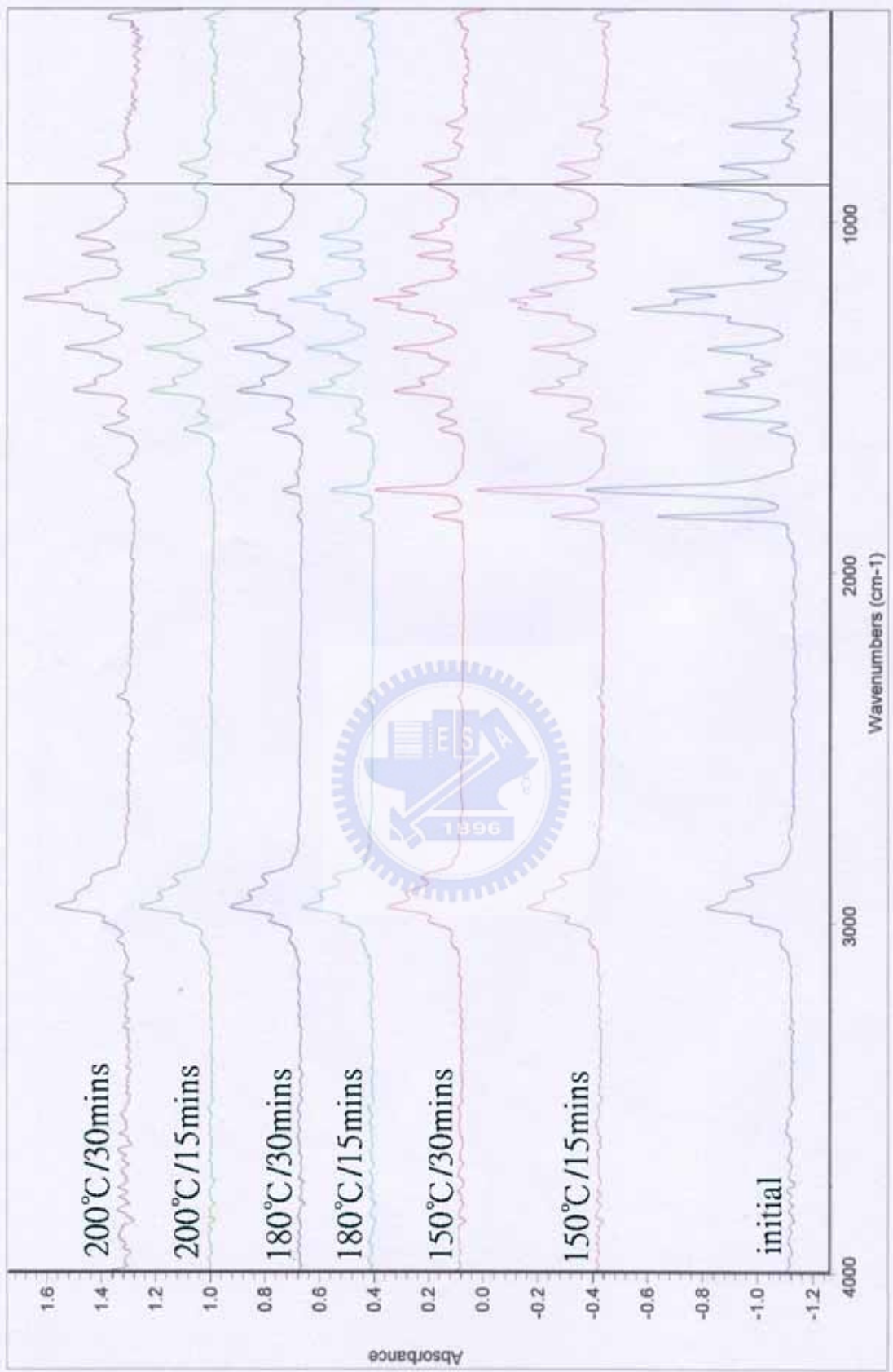


**Figure.3-32 FT-IR spectrum of Epoxy / CA**

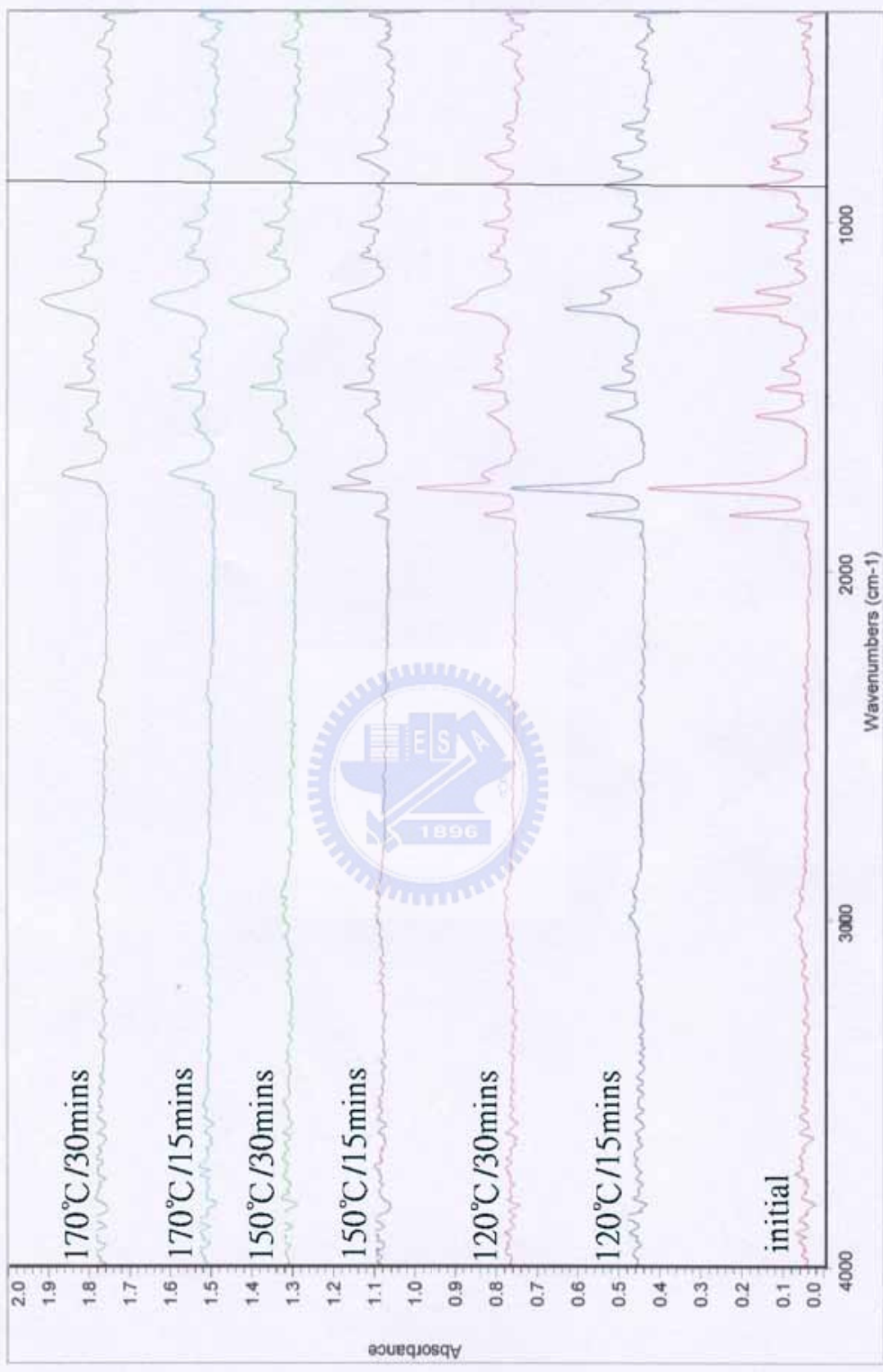




**Figure.3-33 FT-IR spectrum of Epoxy / CA**



**Figure.3-34 FT-IR spectrum of Epoxy / CA**



**Figure.3-35 FT-IR spectrum of Epoxy / CA**

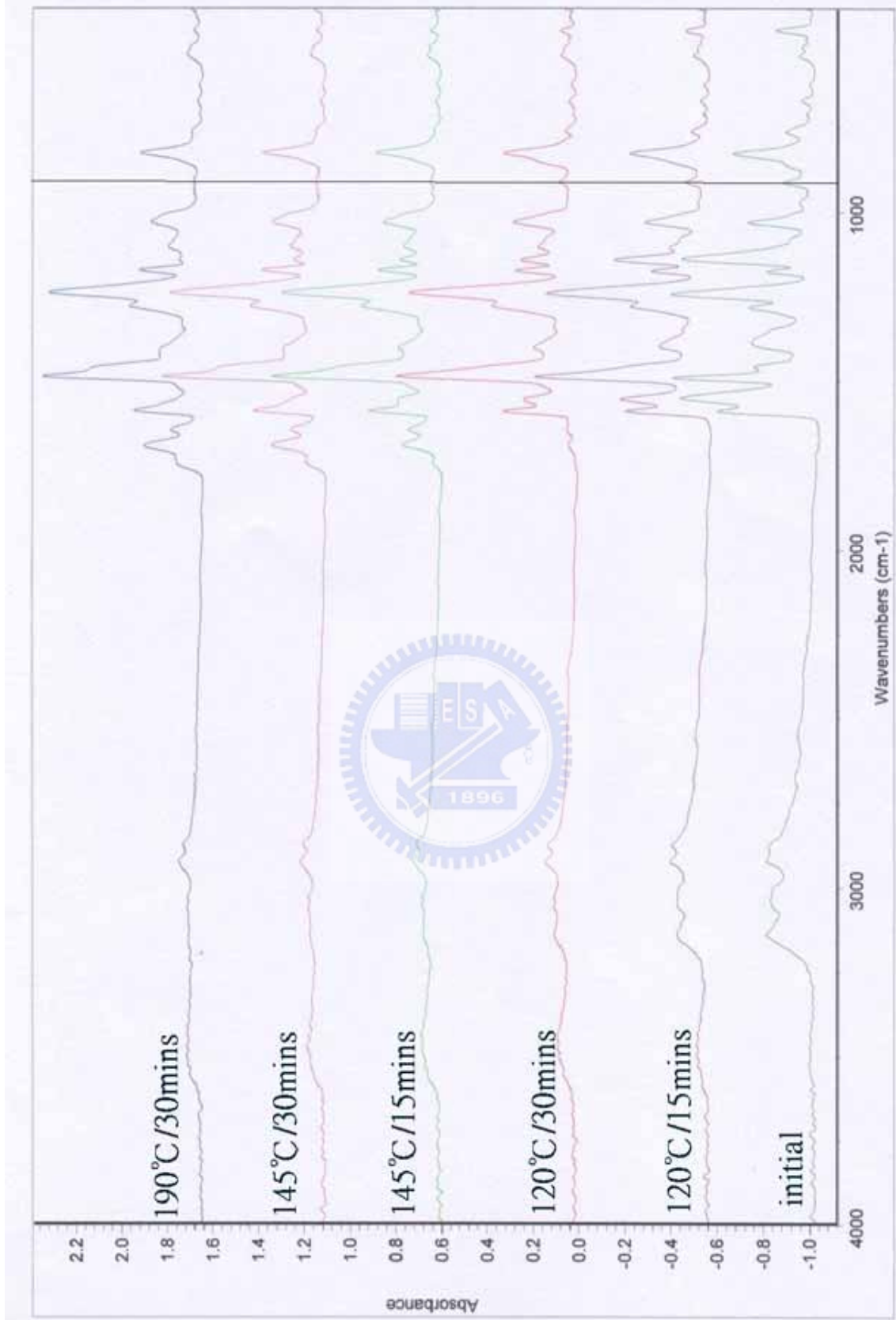


Figure.3-36 FT-IR spectrum of Epoxy / CA

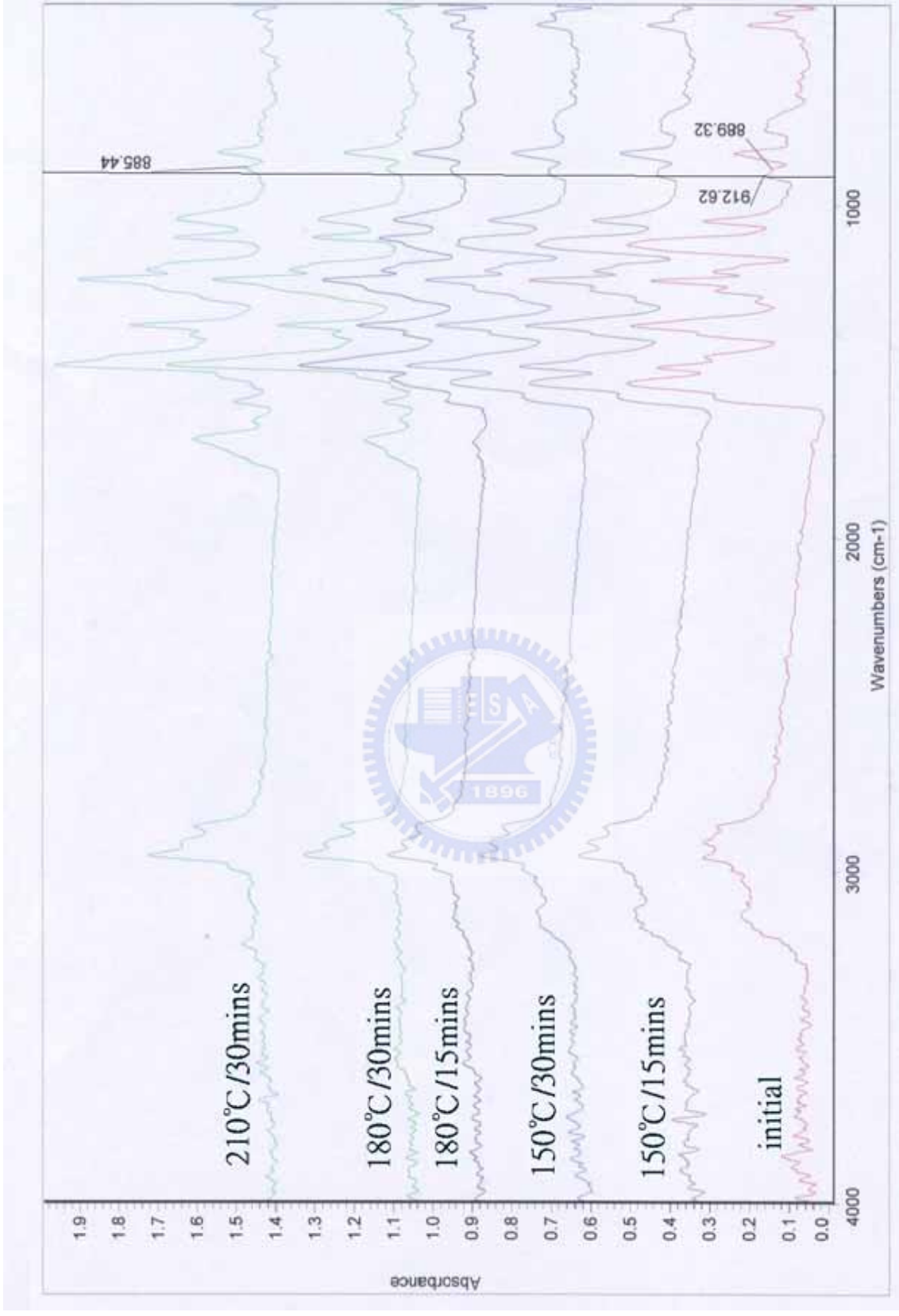


Figure.3-37 FT-IR spectrum of Epoxy / CA



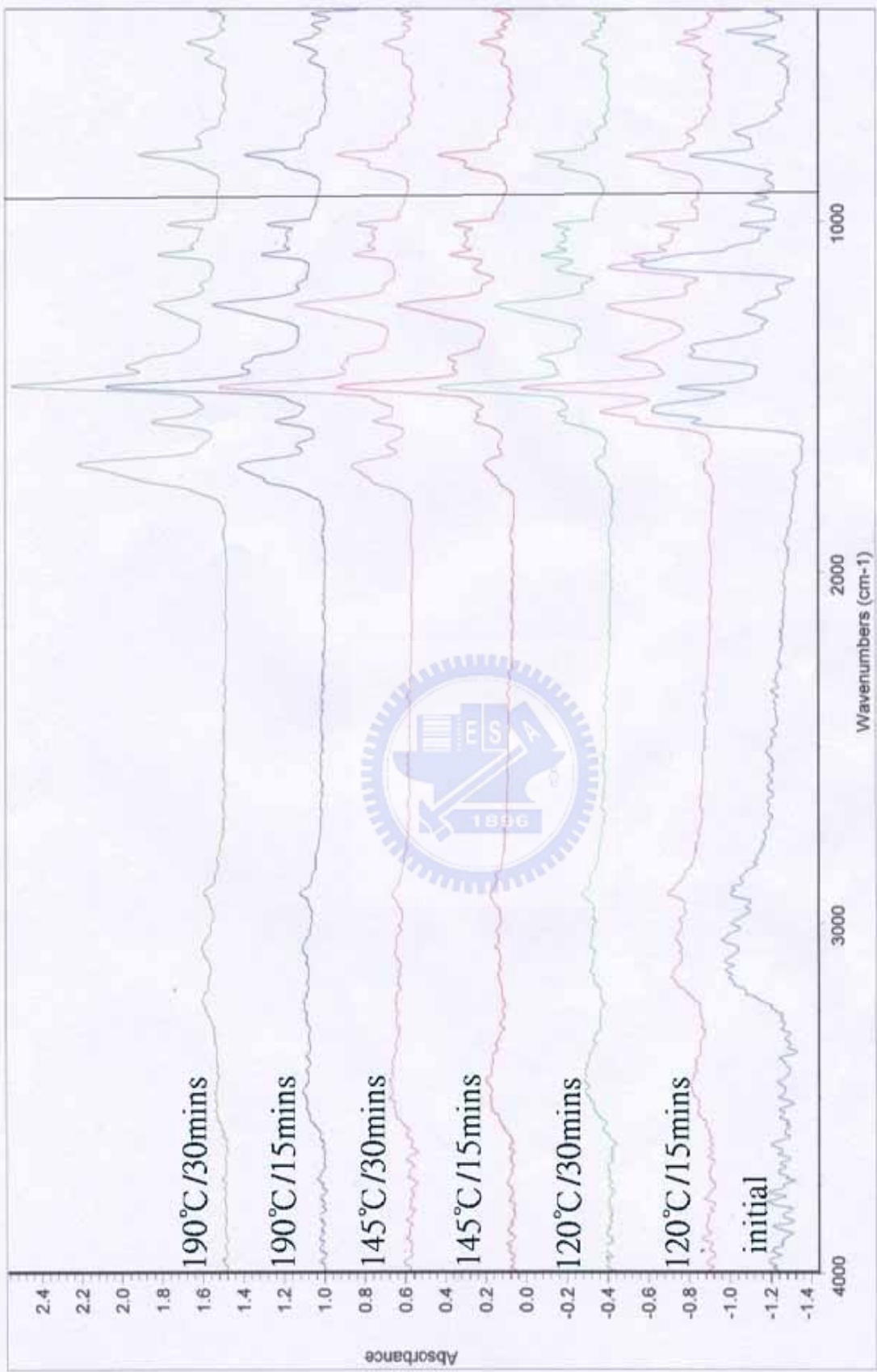
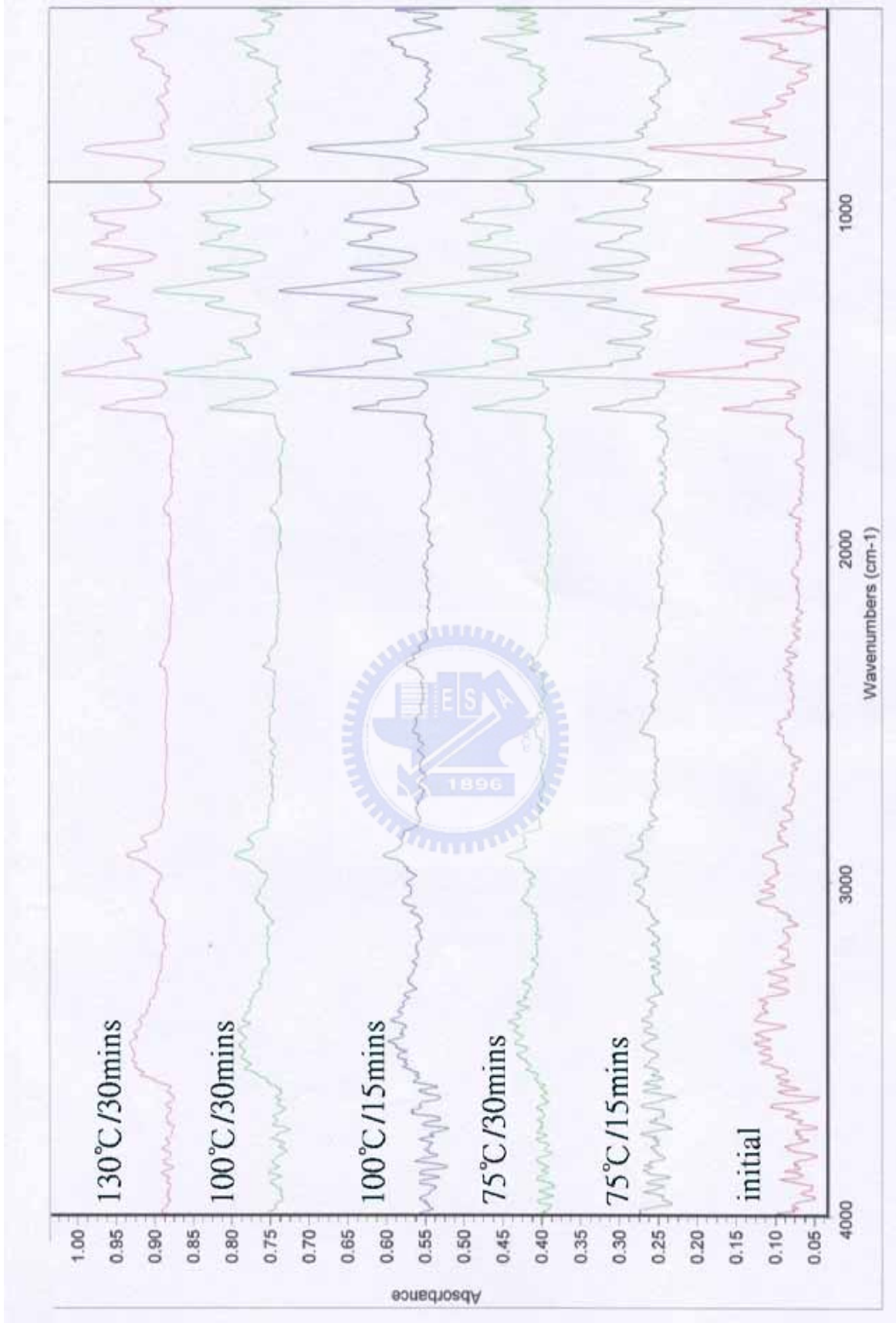
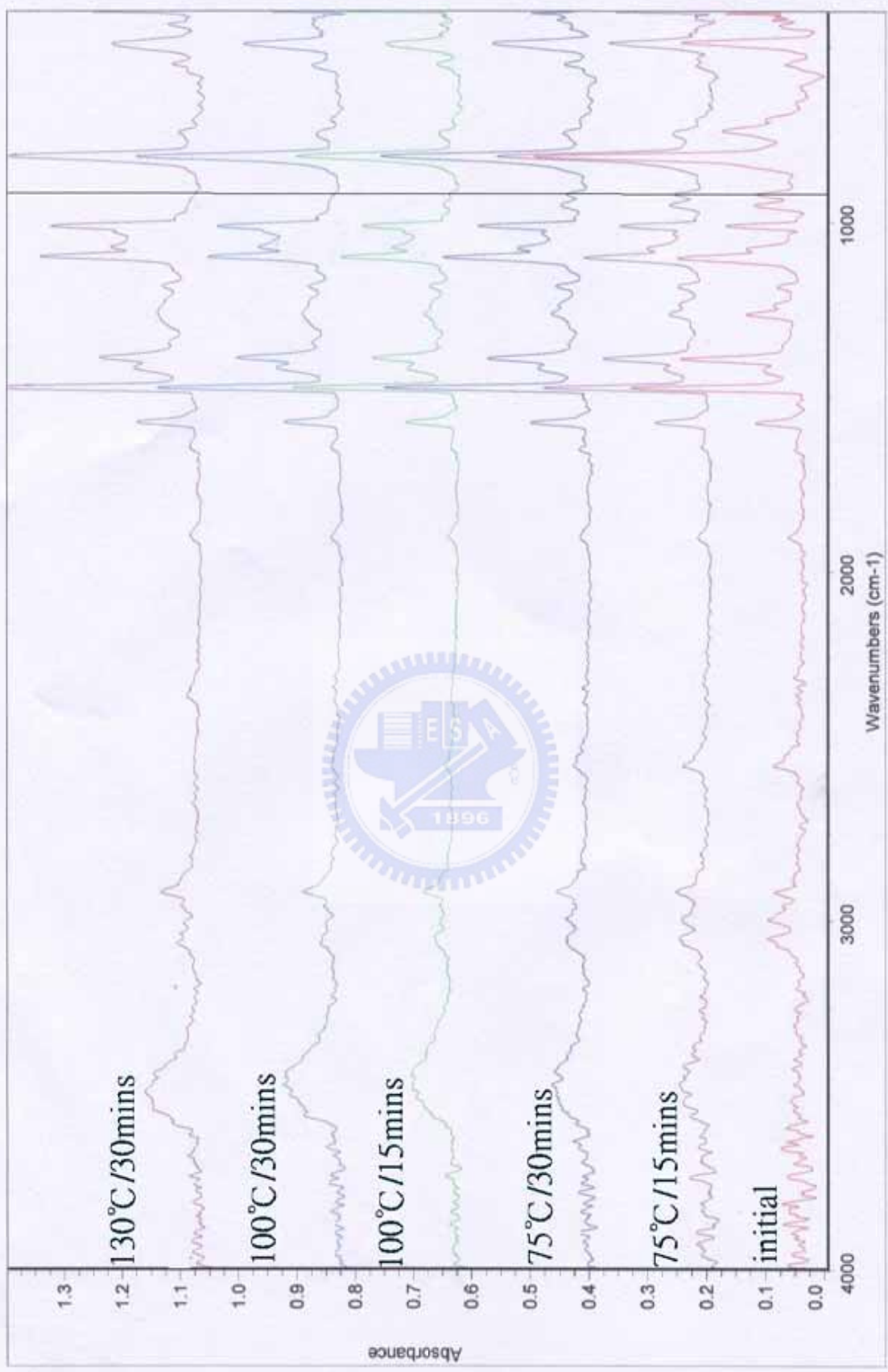


Figure.3-38 FT-IR spectrum of Epoxy / CA



**Figure.3-39 FT-IR spectrum of Epoxy / CA**



**Figure.3-40 FT-IR spectrum of Epoxy / CA**