

圖 3-1(a) 三片樣品之室溫 PL 圖

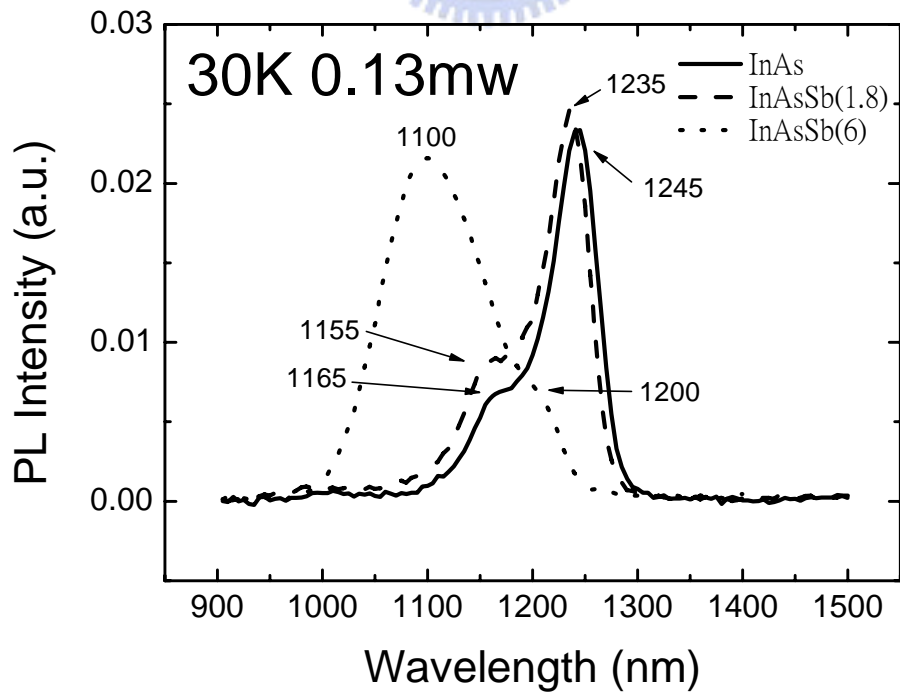


圖 3-1(b) 三片樣品之低溫(30K)PL 圖

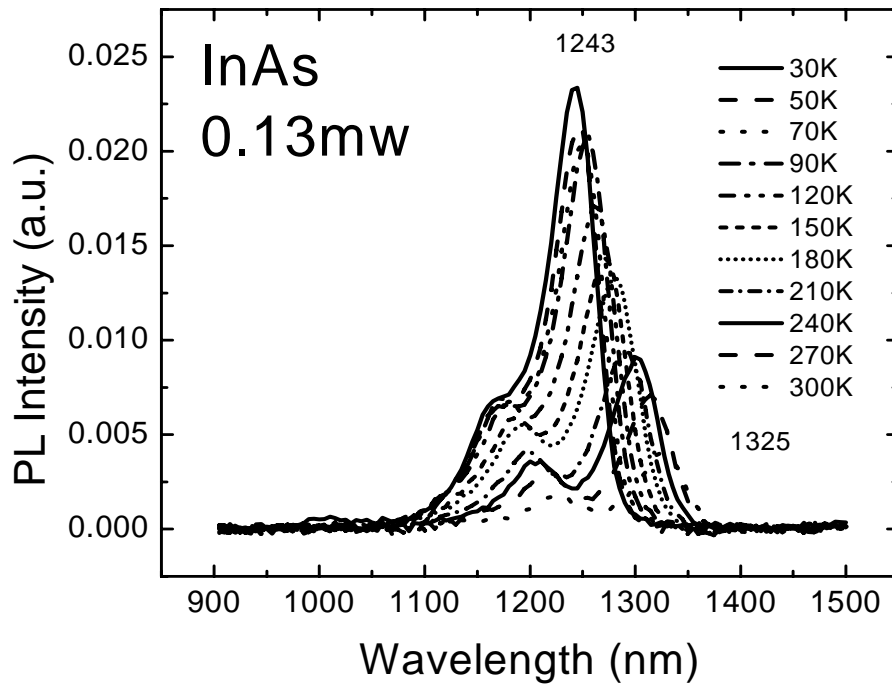


圖 3-2(a) InAs 之變溫 PL 圖

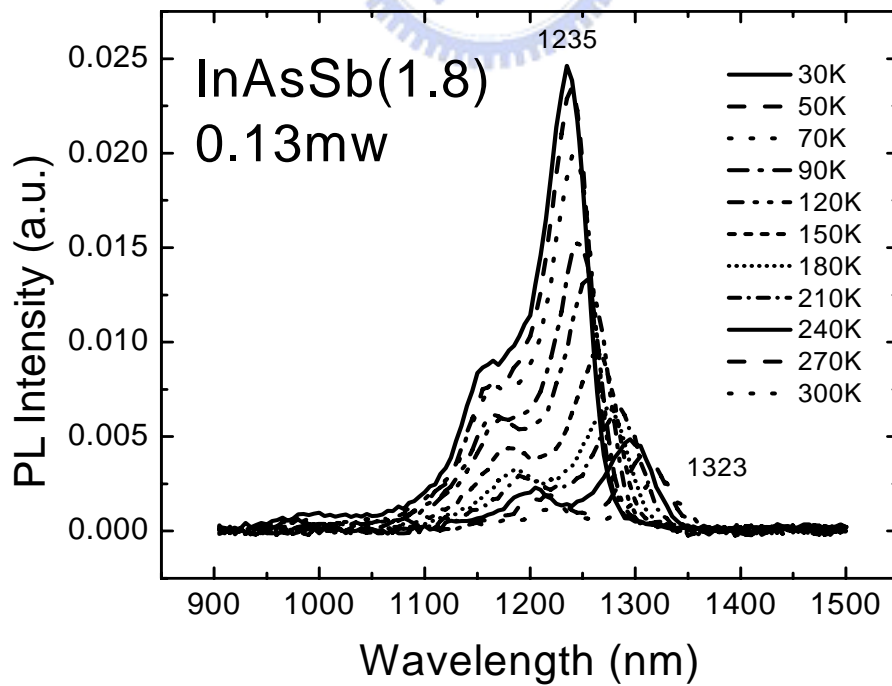


圖 3-2(b) InAsSb(1.8)之變溫 PL 圖

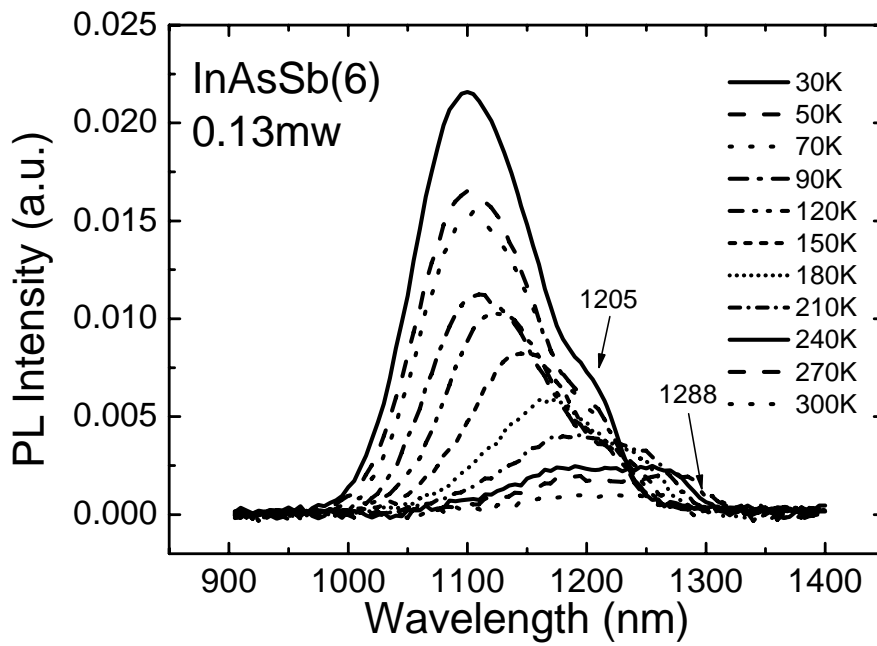


圖 3-3(a) InAsSb(6)之變溫 PL 圖(小功率)

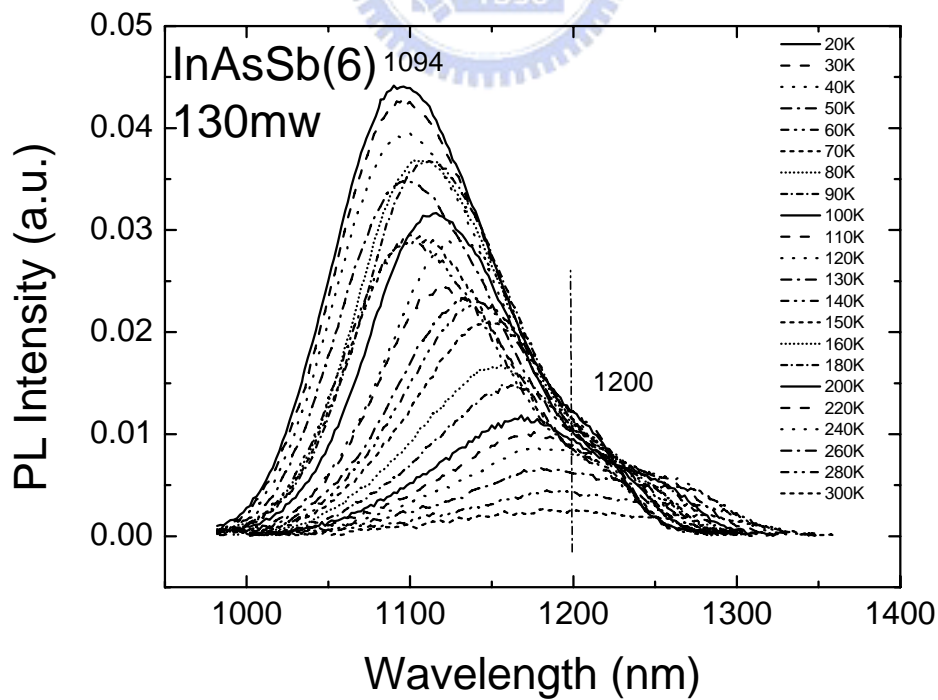


圖 3-3(b) InAsSb(6)之變溫 PL 圖(大功率)

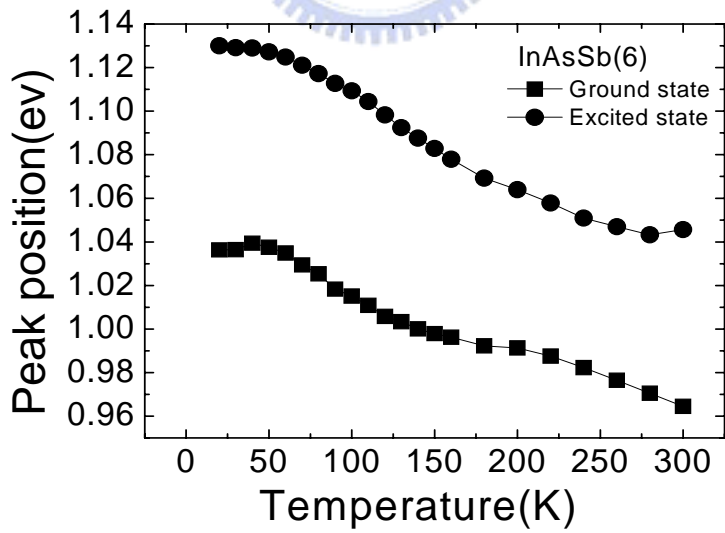
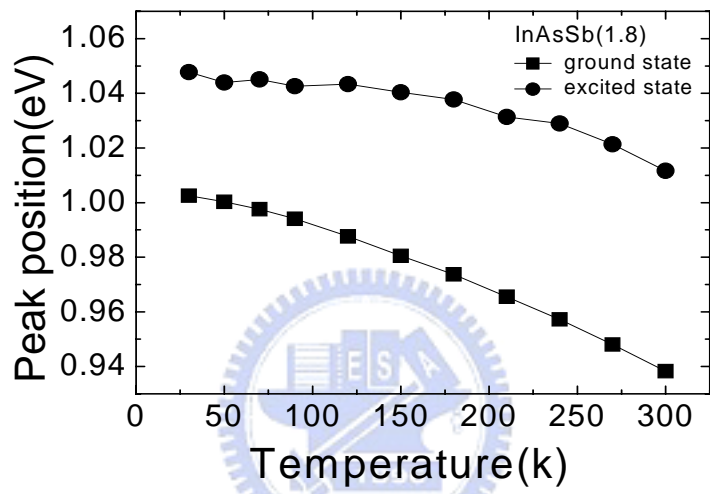
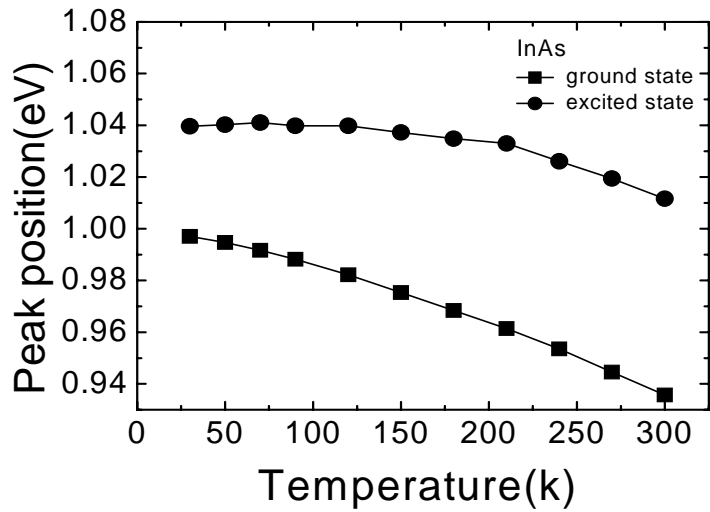


圖 3-4 三片樣品之峰值位置對溫度變化圖

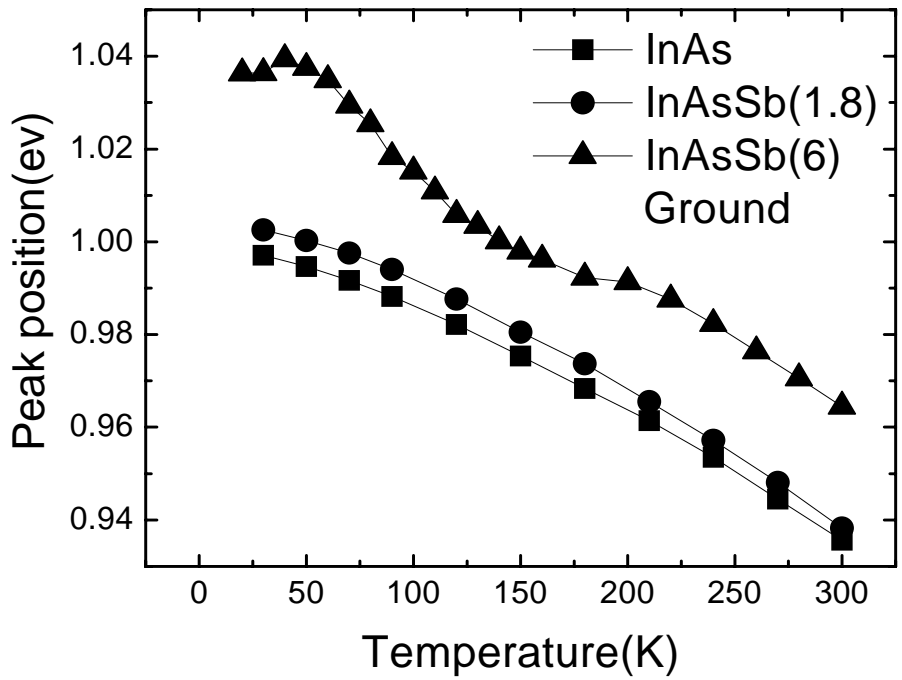


圖 3-5(a) 三片樣品之基態放射能量對溫度變化圖

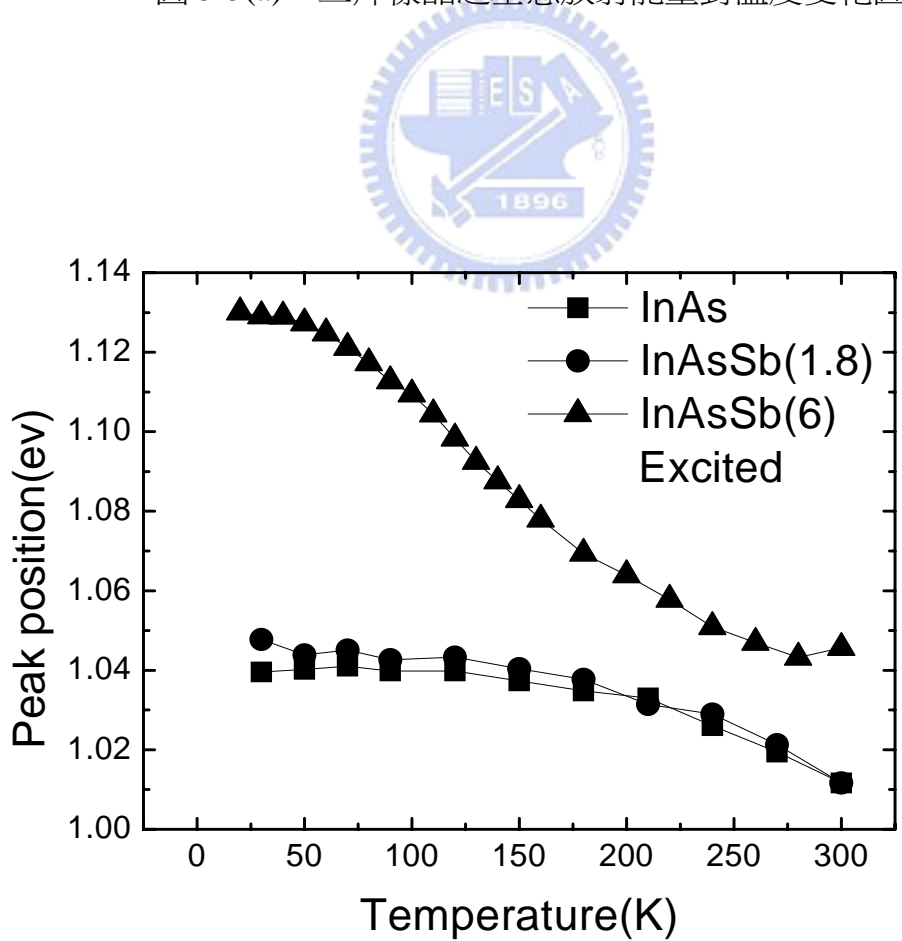


圖 3-5(b) 三片樣品之第一激發態放射能量對溫度變化圖

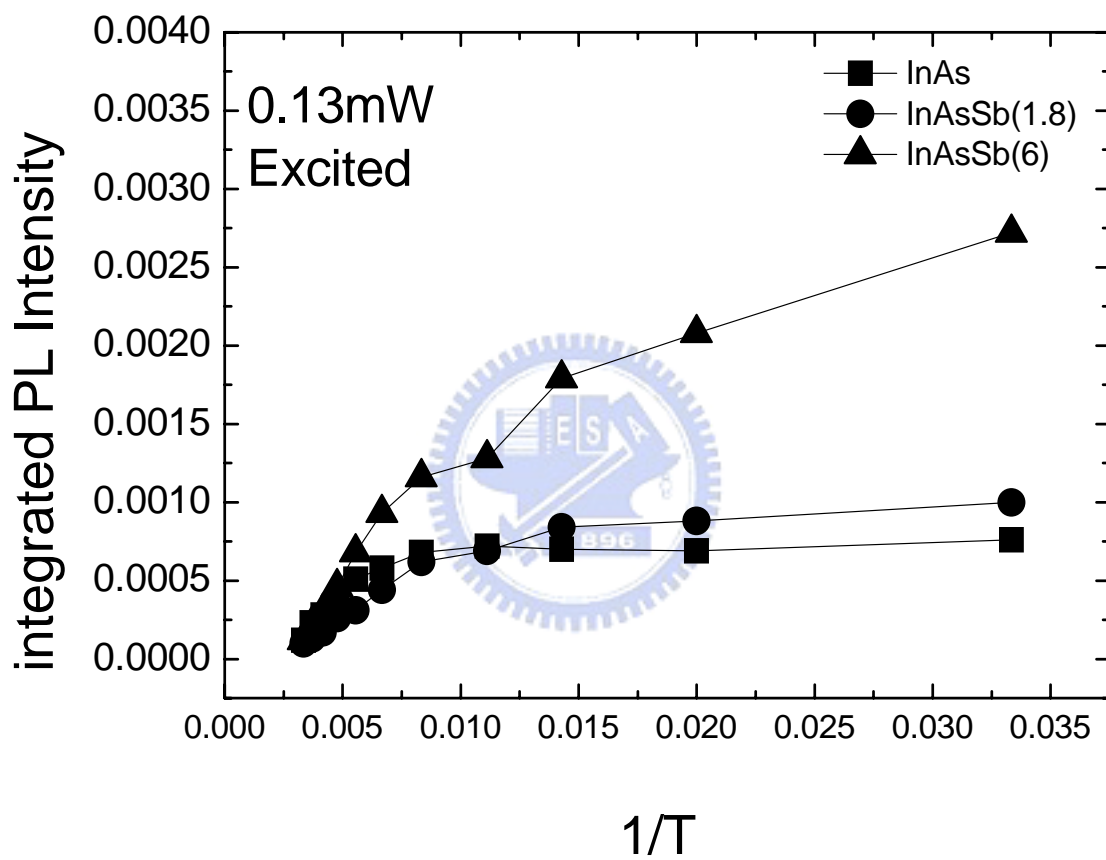


圖 3-6 三片樣品之積分強度對溫度倒數變化圖

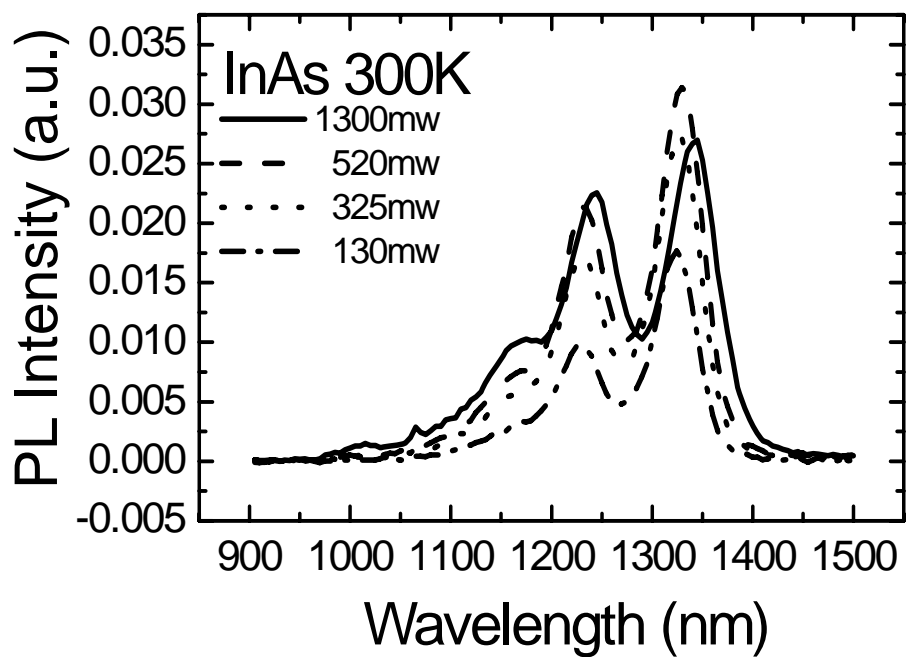


圖 3-7(a) InAs 室溫 300K 變功率 PL 圖

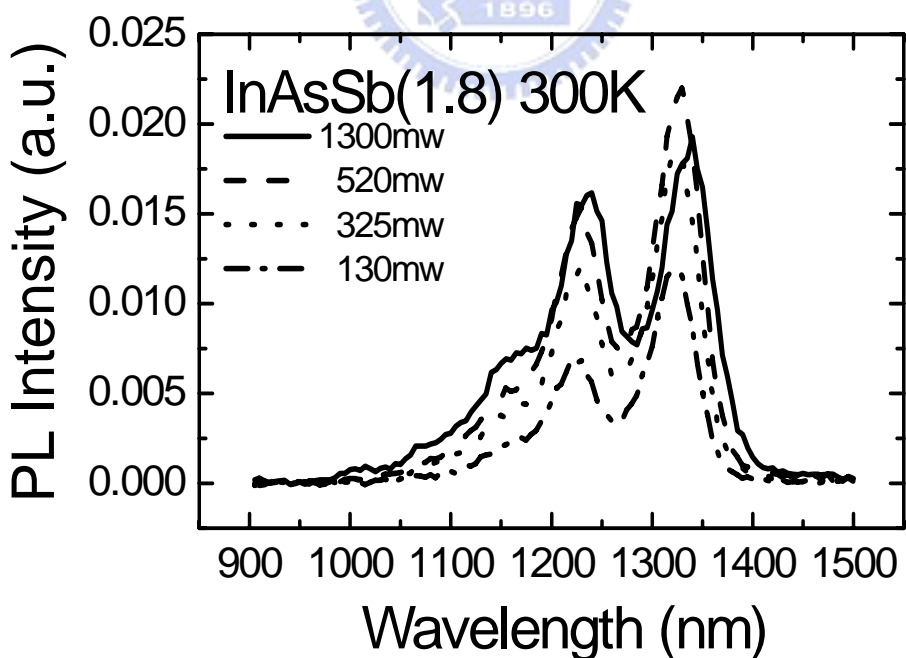


圖 3-7(b) InAsSb(1.8)室溫 300K 變功率 PL 圖

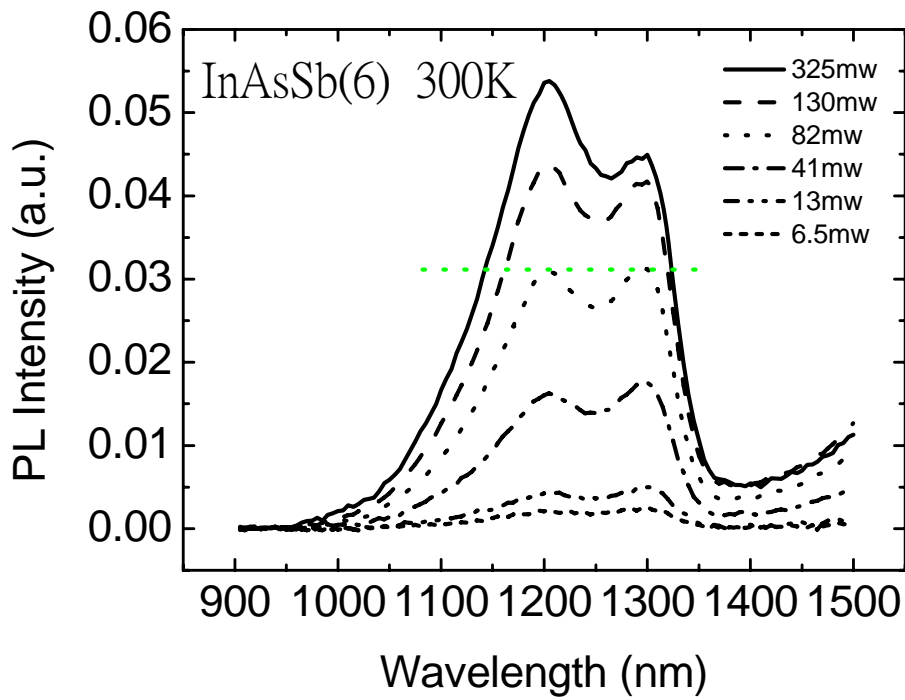


圖 3-8(a) InAsSb(6)室溫 300K 變功率 PL 圖(小功率)

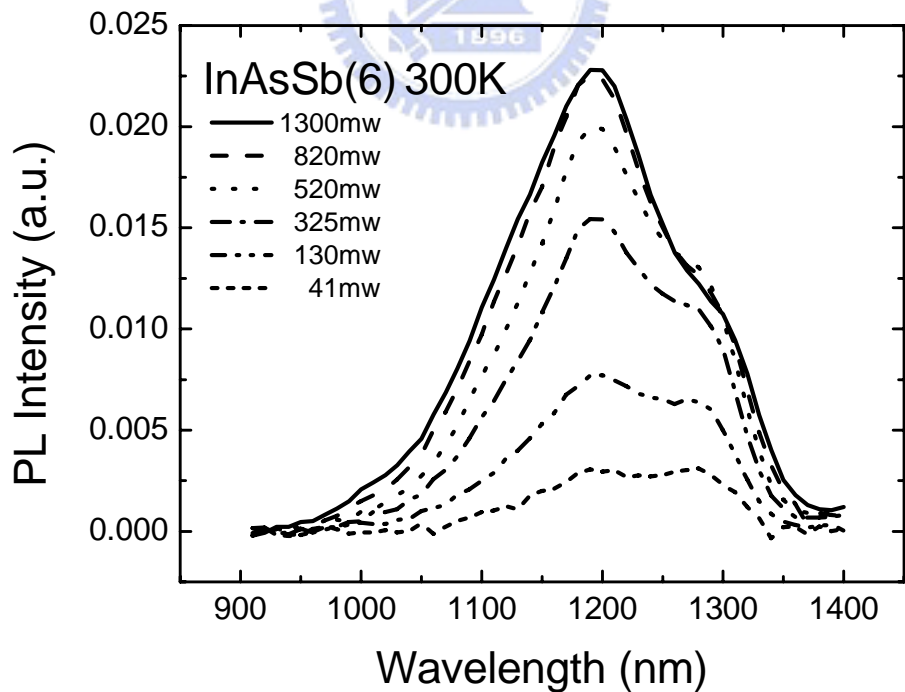


圖 3-8(b) InAsSb(6)室溫 300K 變功率 PL 圖(大功率)



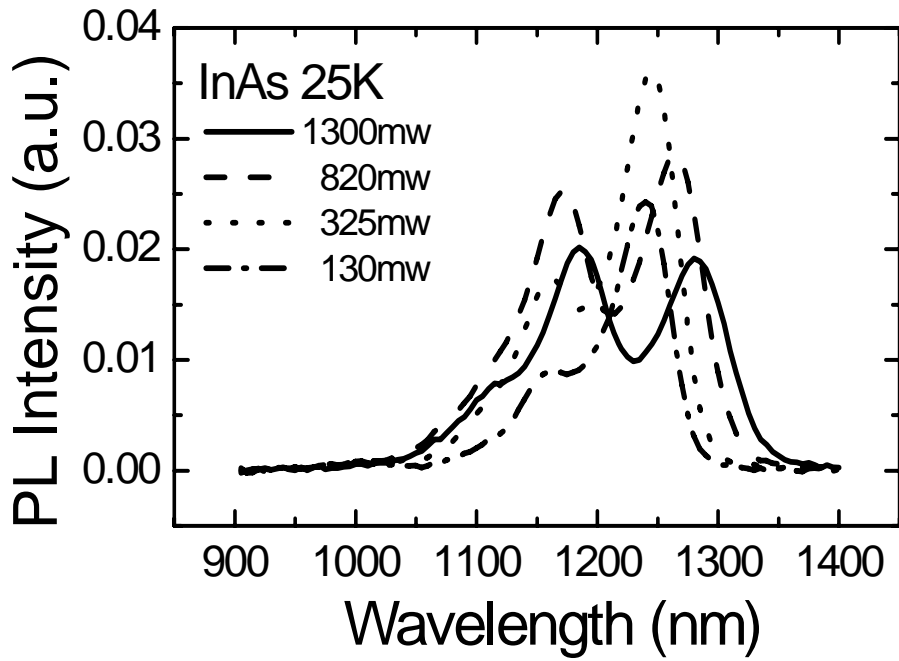


圖 3-9(a) InAs 低溫 25K 變功率 PL 圖

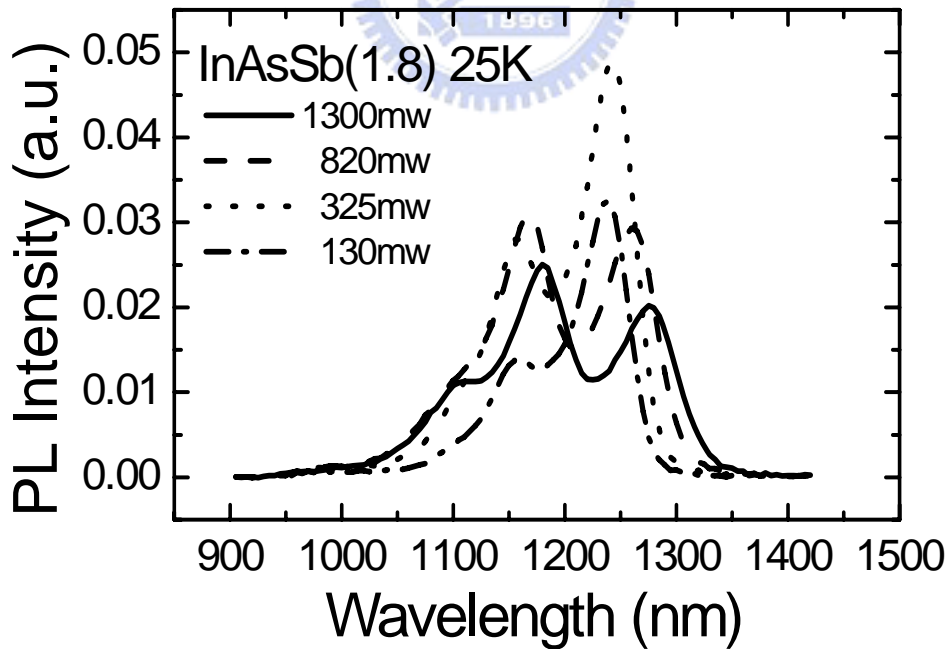


圖 3-9(b) InAsSb(1.8)低溫 25K 變功率 PL 圖

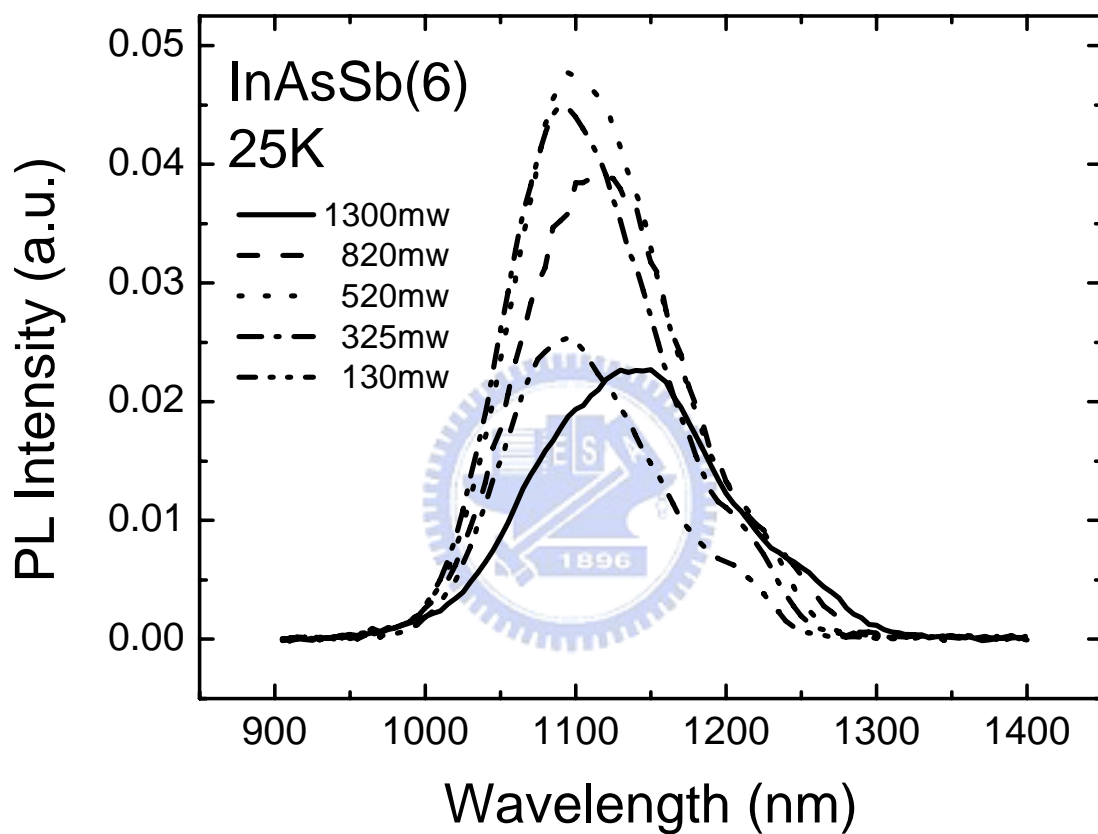


圖 3-10 InAsSb(6)低溫 25K 變功率 PL 圖

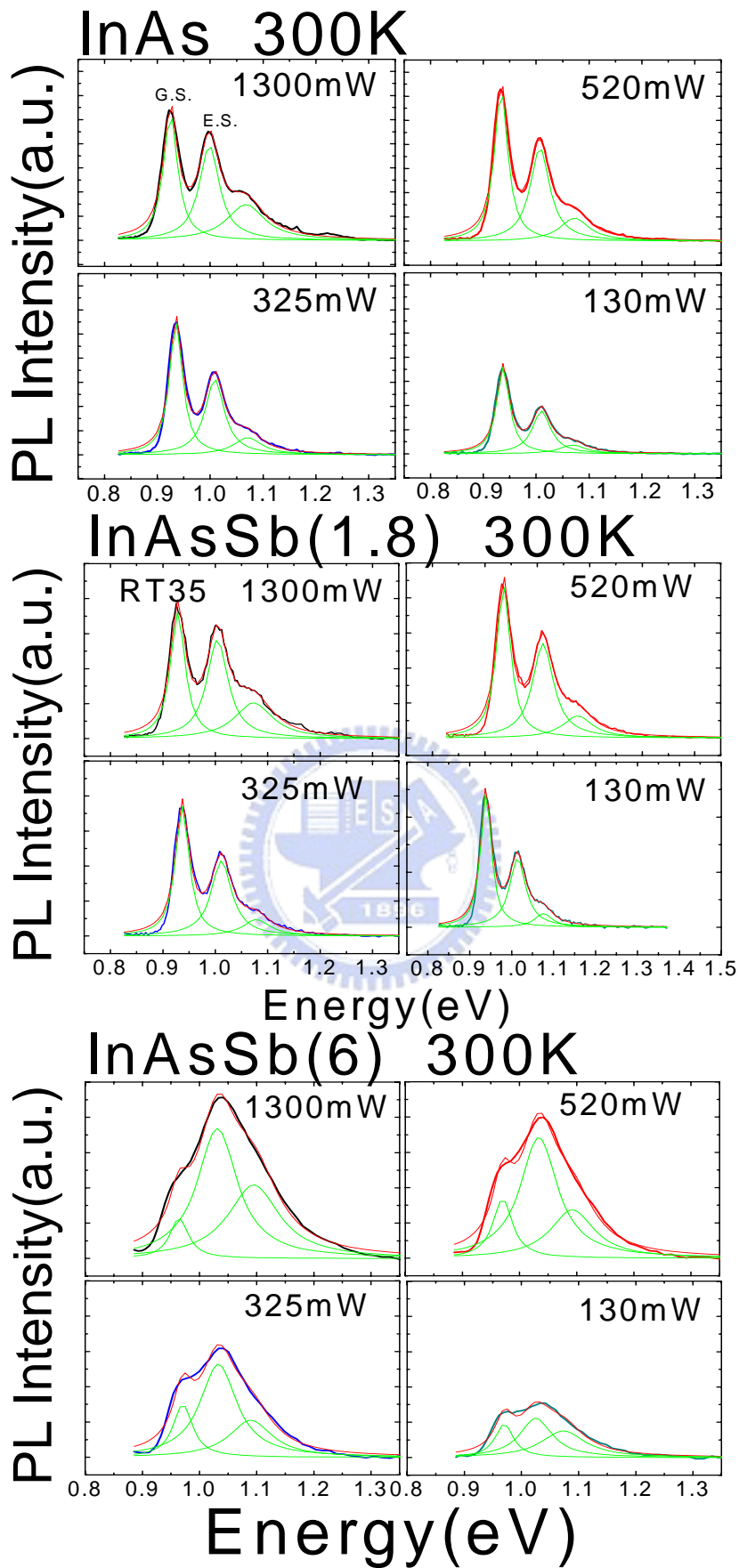


圖 3-11 三片樣品在室溫變功率之擬合圖

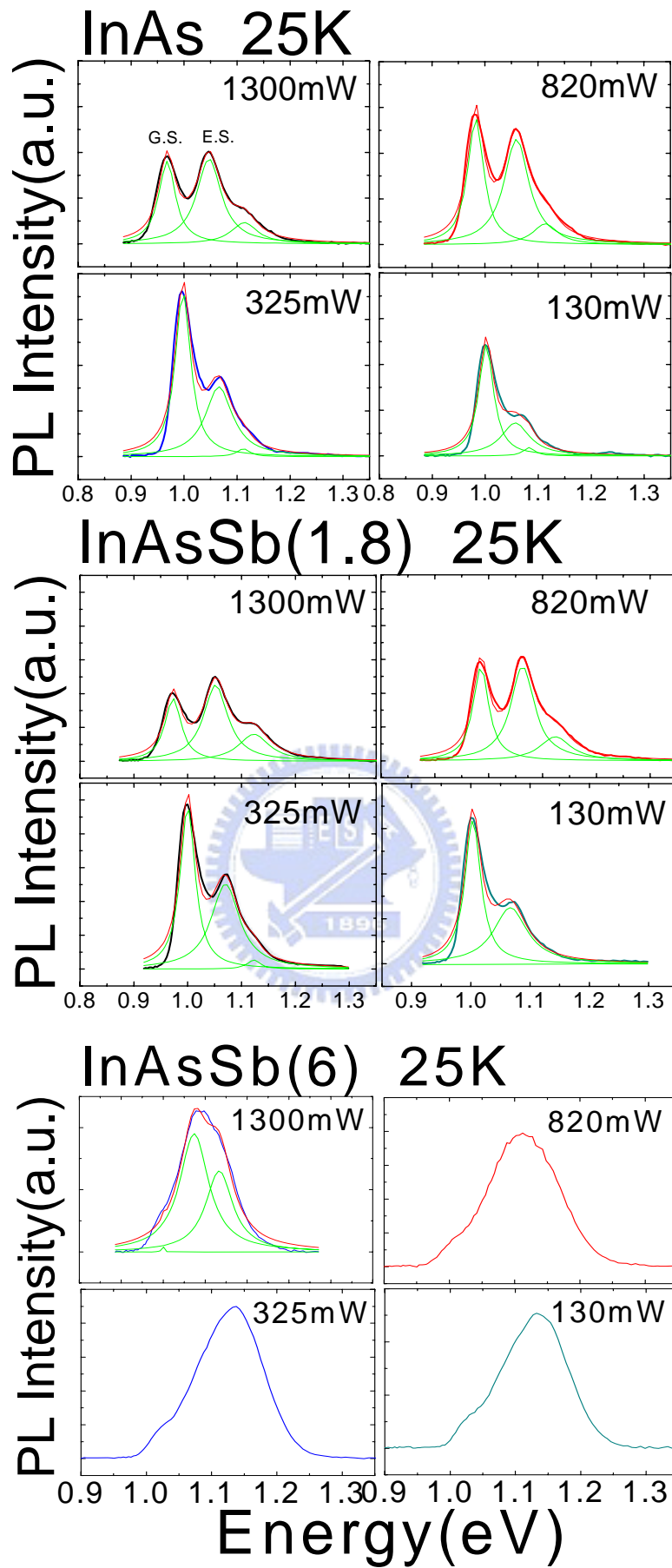


圖 3-12 三片樣品在低溫 25K 變功率的擬合圖

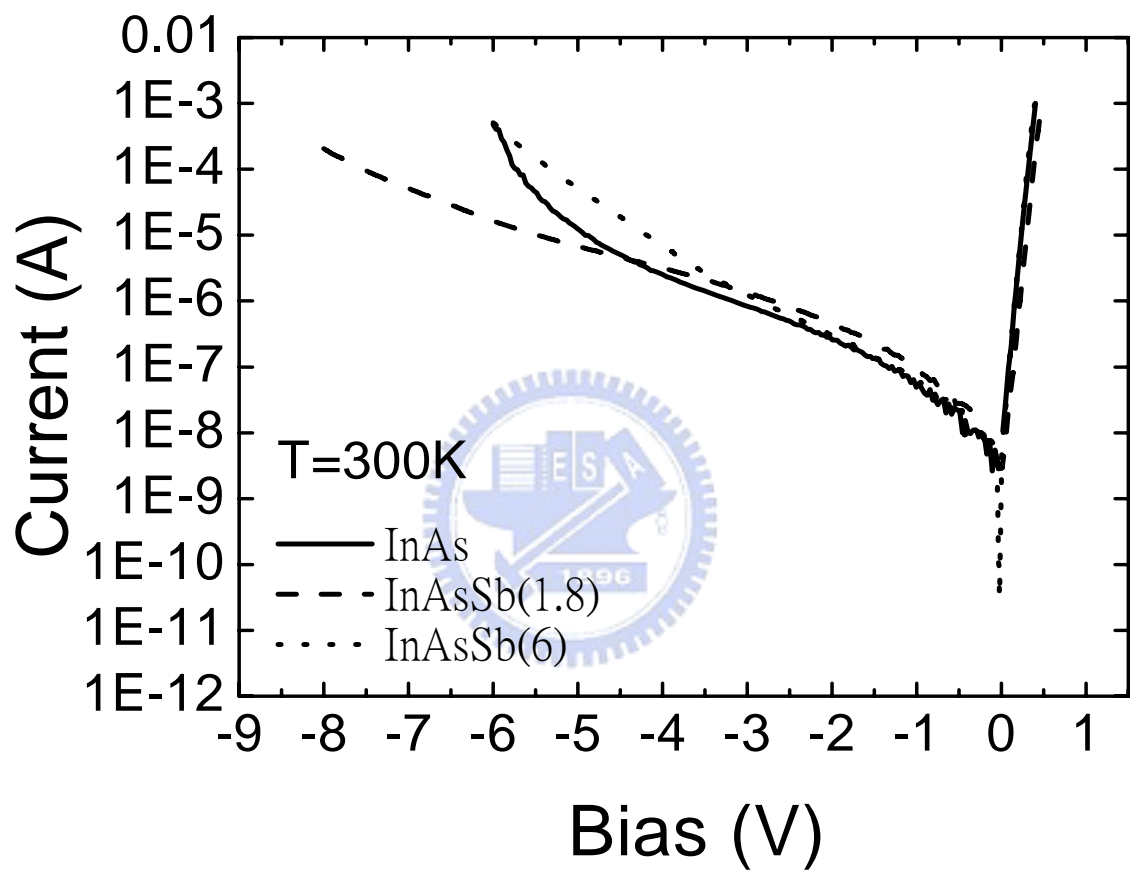


圖 4-1 三片樣品之室溫正反向電流-電壓特性圖

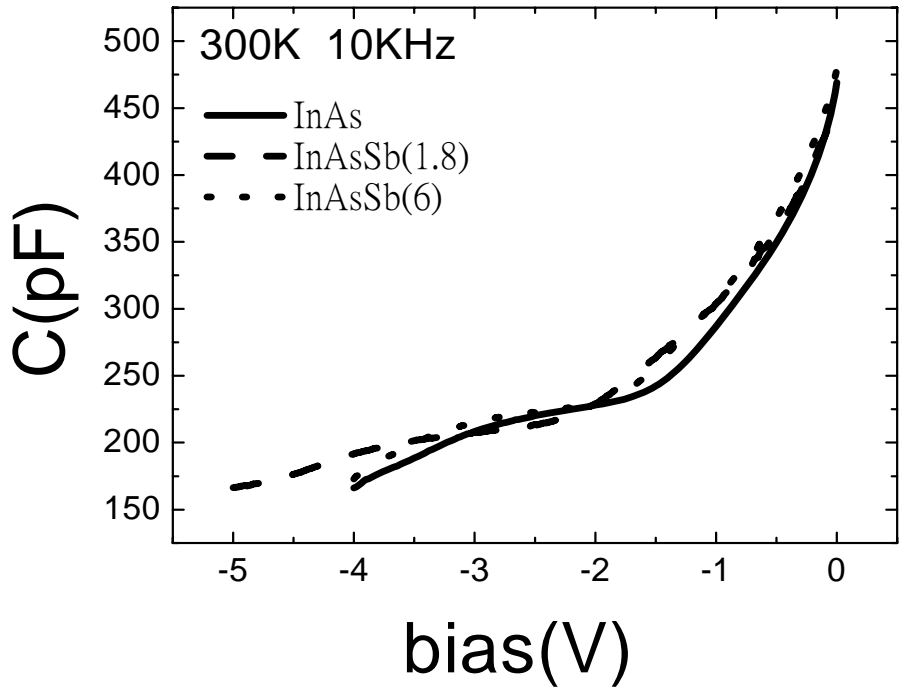


圖 4-2(a) 三片樣品之室溫(10KHz)電容-電壓特性圖

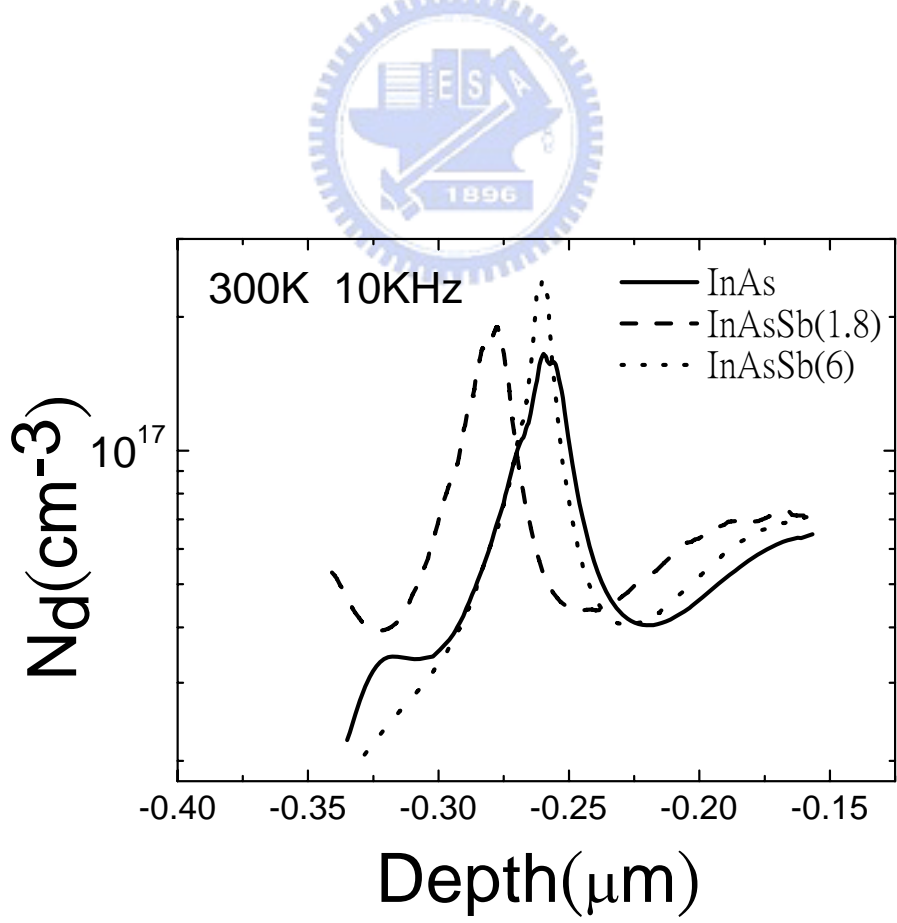


圖 4-2 (b) 三片樣品之室溫(10KHz)縱深分佈特性圖

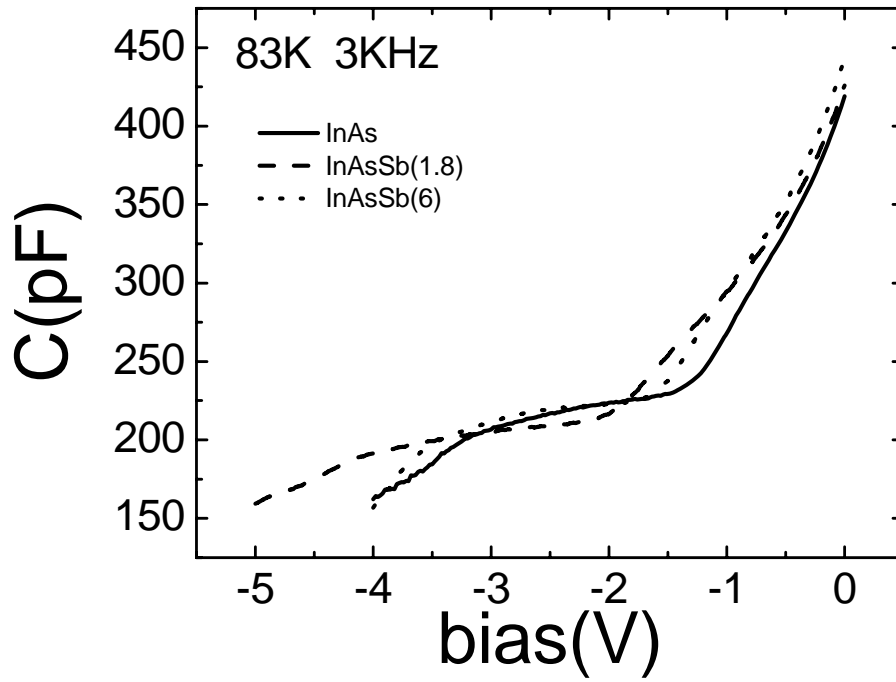


圖 4-3(a) 三片樣品之低溫 83K(3KHz)電容-電壓特性圖

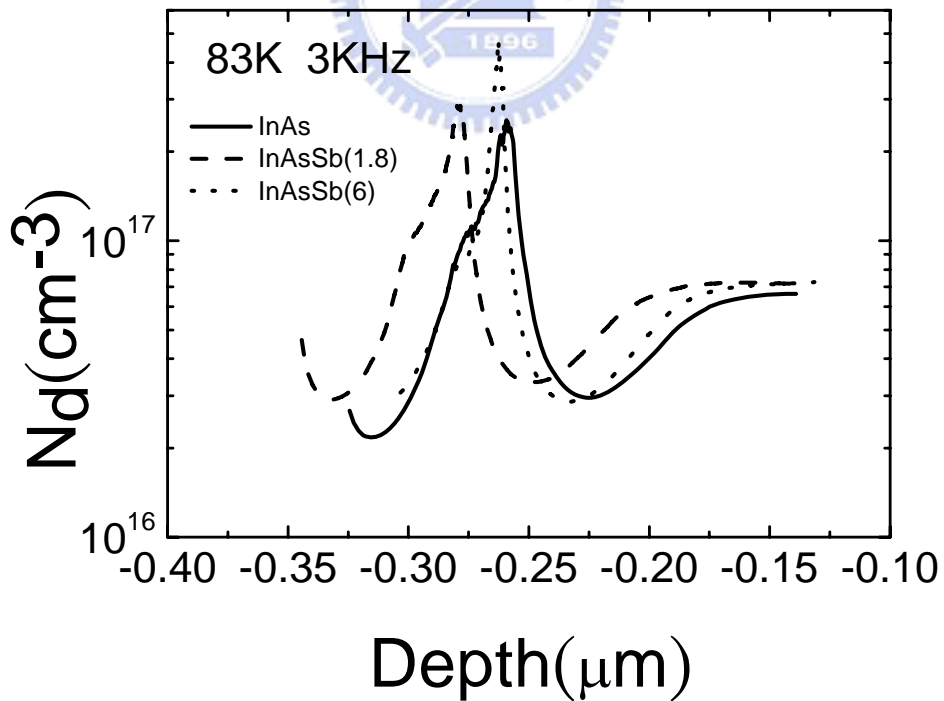


圖 4-3(b) 三片樣品之低溫 83K(3KHz)縱深分佈特性圖

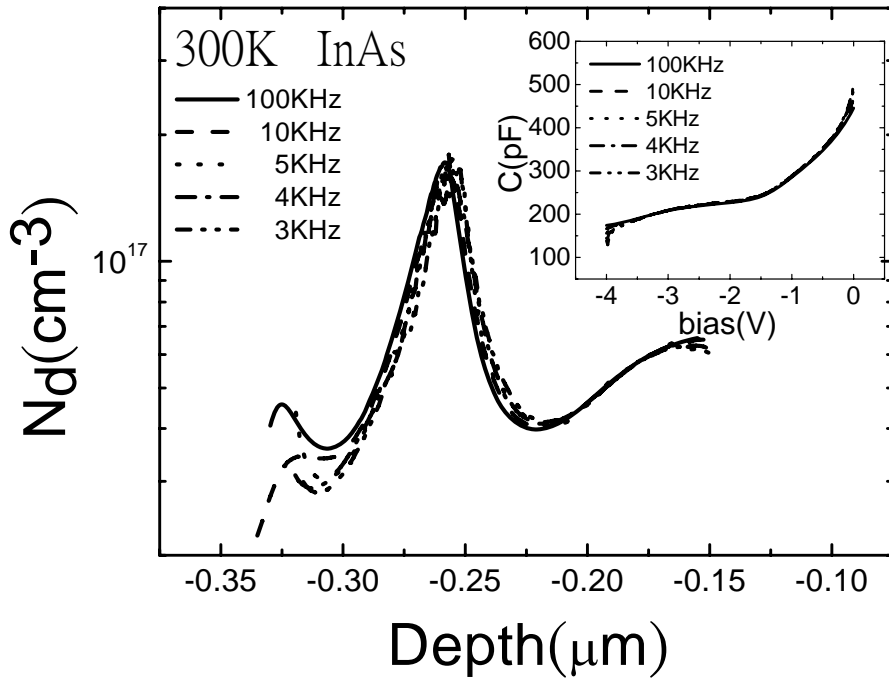


圖 4-4(a) InAs 室溫變頻縱深分佈特性圖

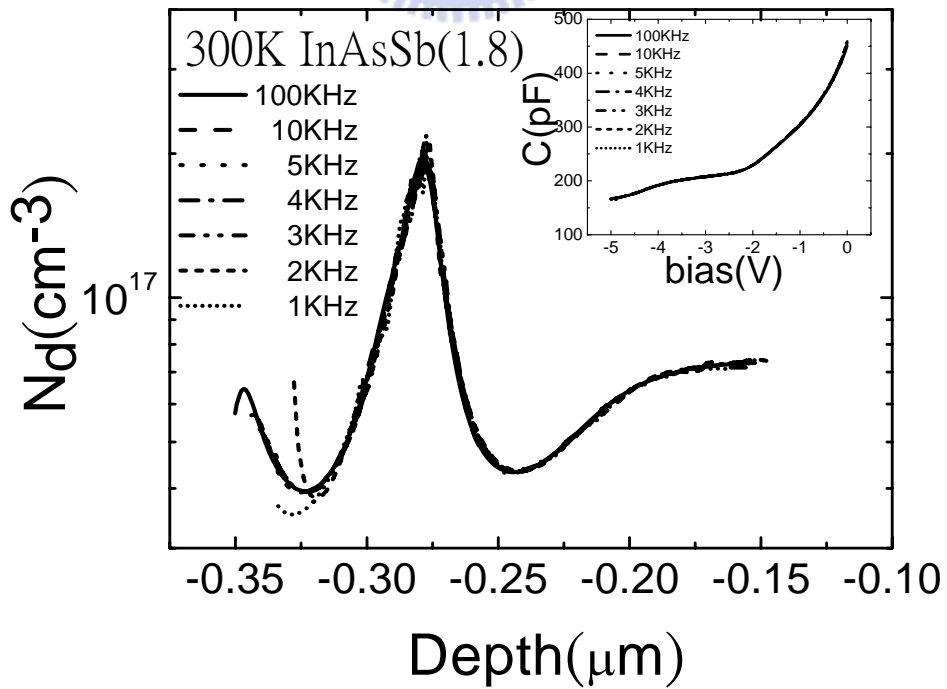


圖 4-4(b) InAsSb(1.8)室溫變頻縱深分佈特性圖



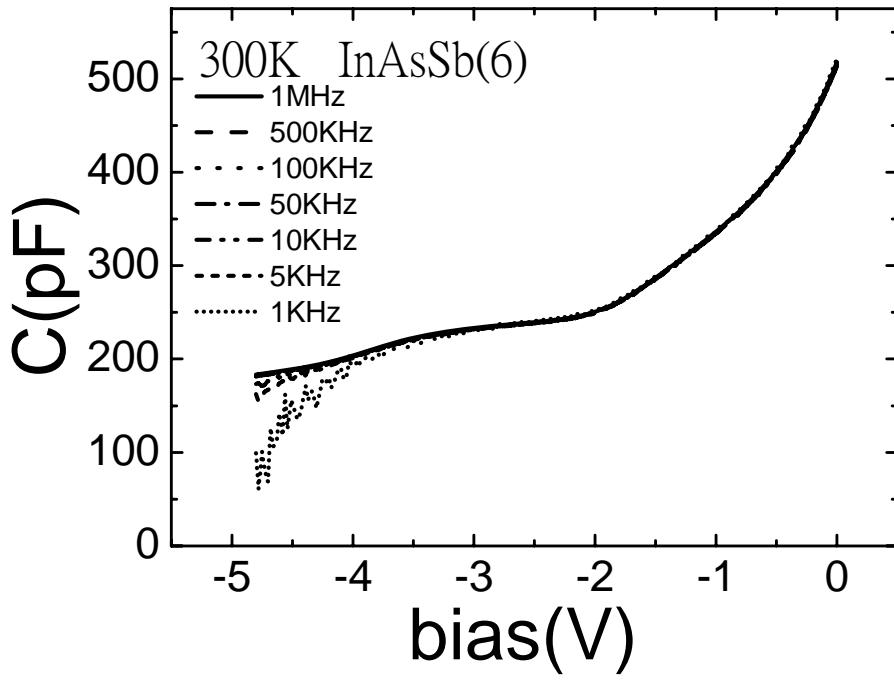


圖 4-5(a) InAsSb(6)室溫變頻電容-電壓特性圖

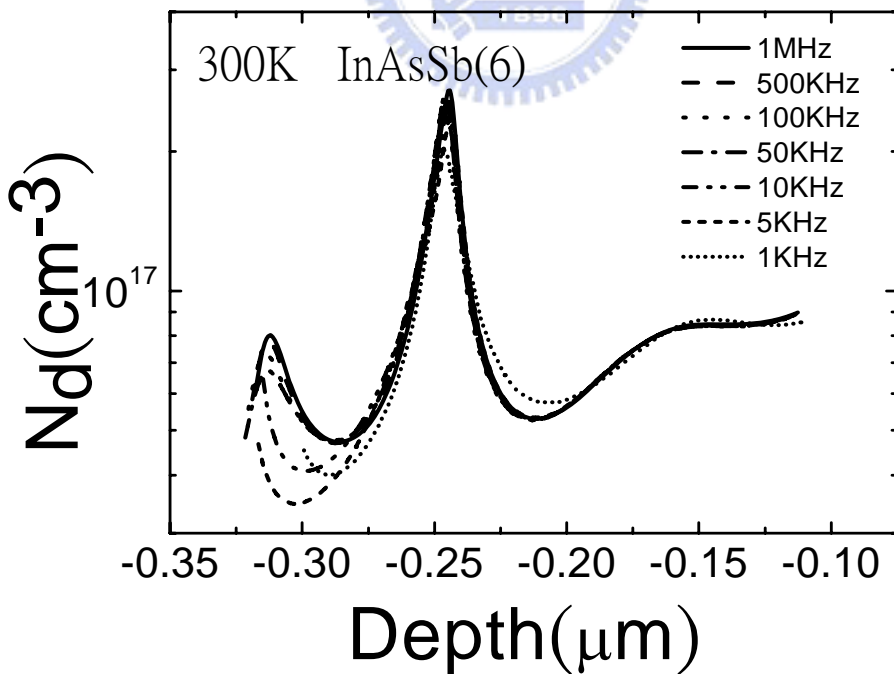


圖 4-5(b) InAsSb(6)室溫變頻縱深分佈特性圖

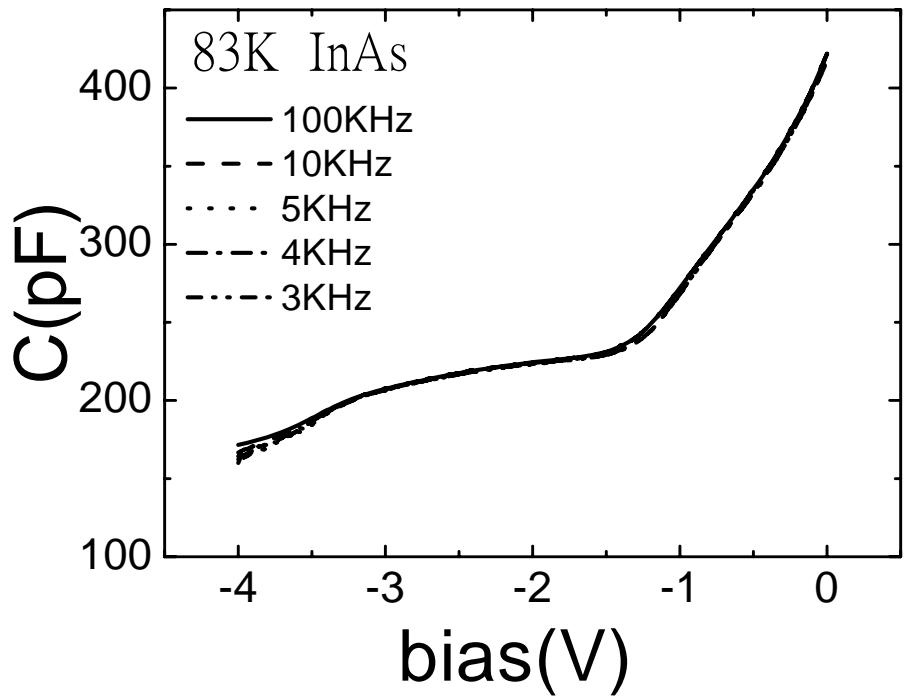


圖 4-6(a) InAs 低溫 83K 變頻電容-電壓特性圖

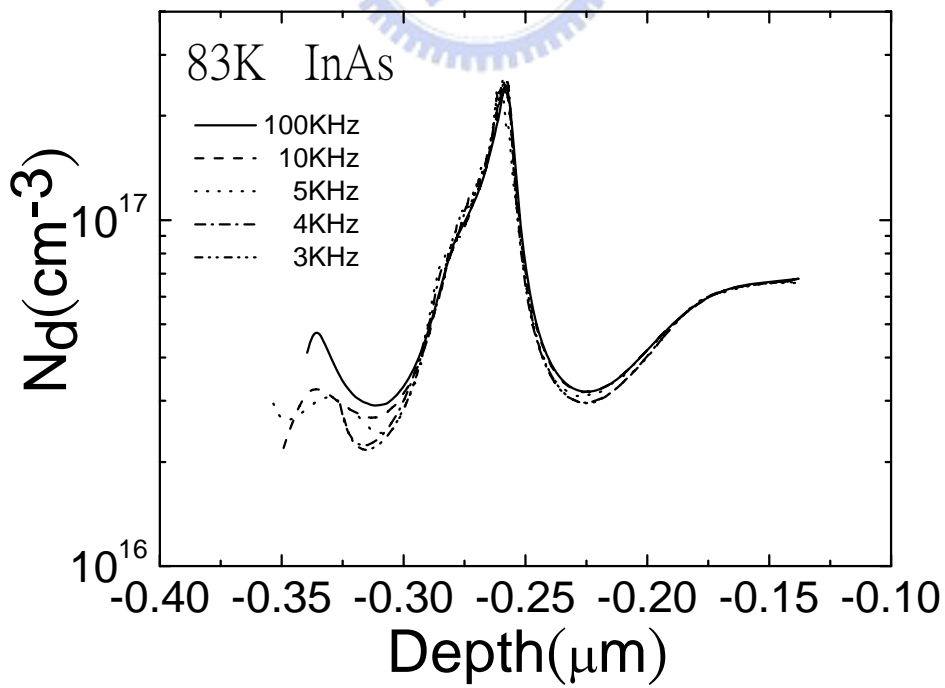


圖 4-6(b) InAs 低溫 83K 變頻縱深分佈特性圖

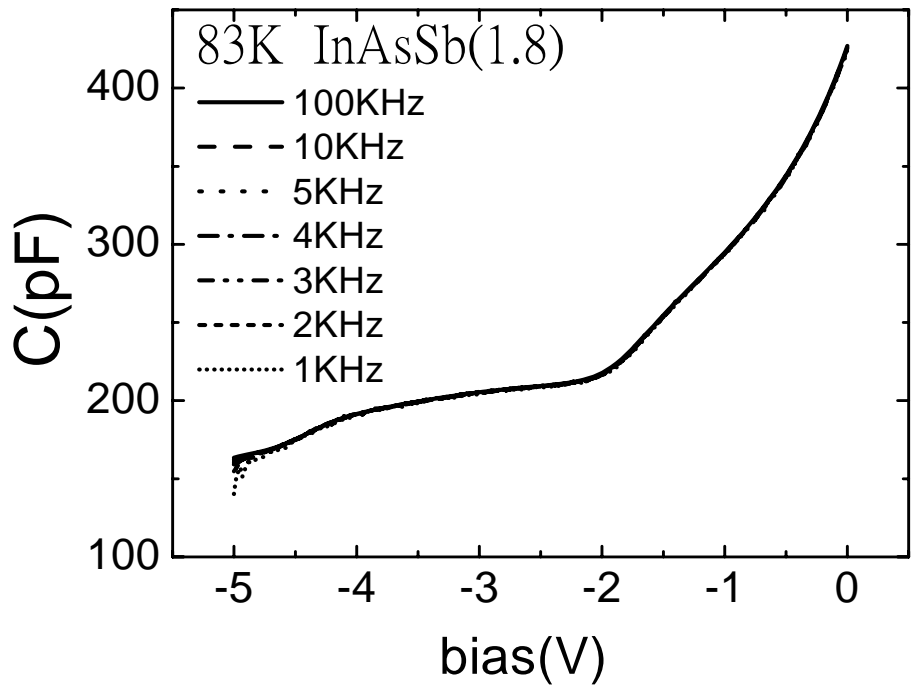


圖 4-7(a) InAsSb(1.8)低溫 83K 變頻電容-電壓特性圖

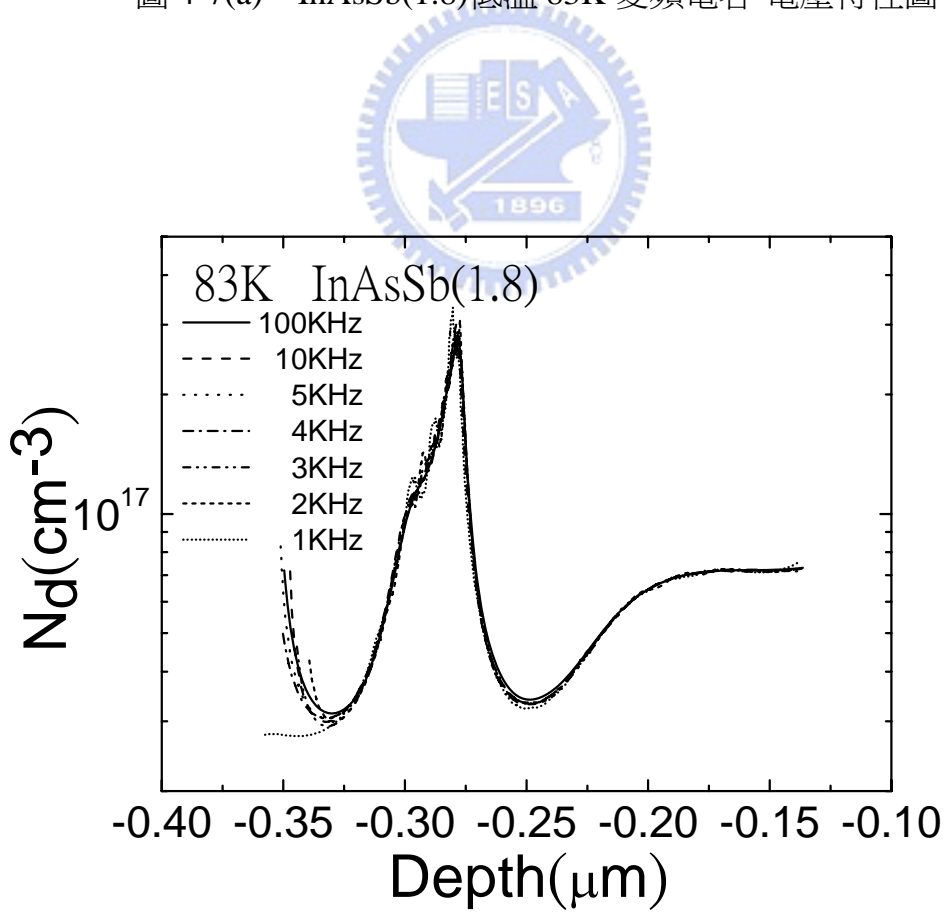


圖 4-7(b) InAsSb(1.8)低溫 83K 變頻縱深分佈特性圖

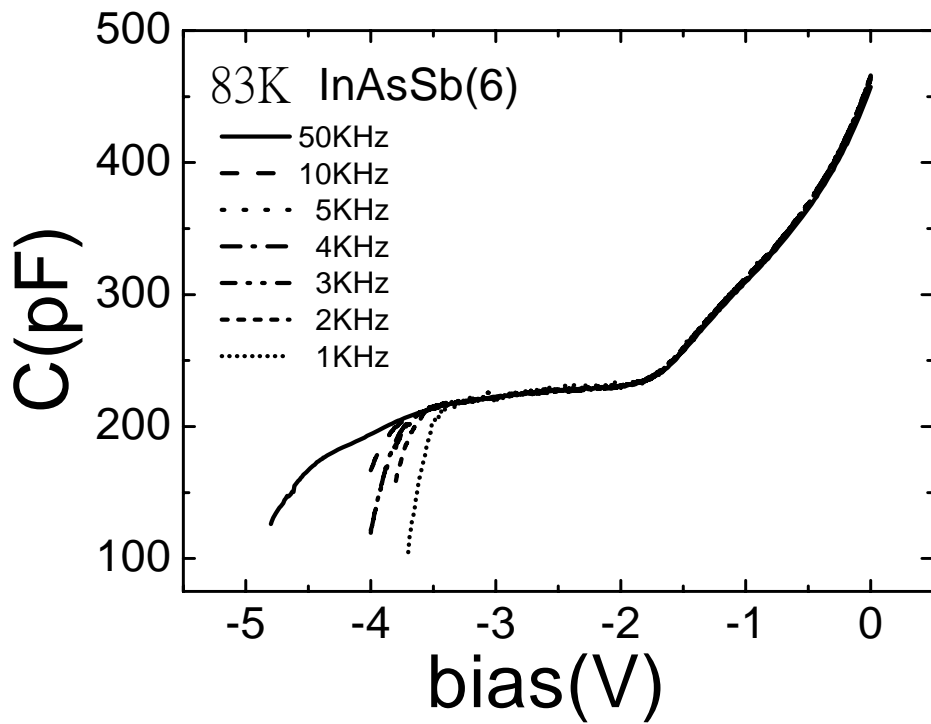


圖 4-8(a) InAsSb(6)低溫 83K 變頻電容-電壓特性圖

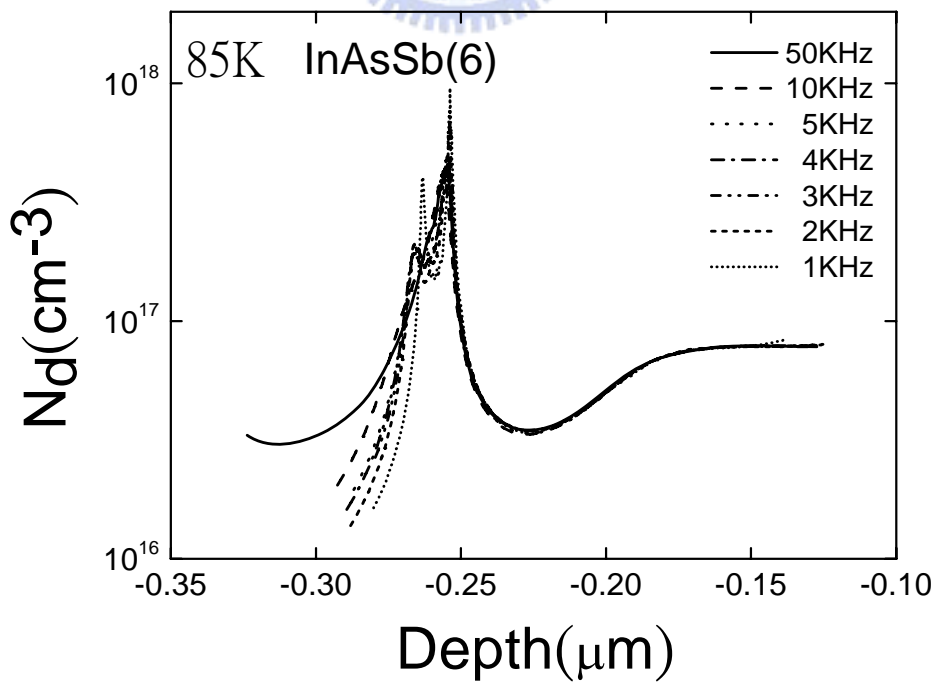


圖 4-8(b) InAsSb(6)低溫 83K 變頻縱深分佈特性圖

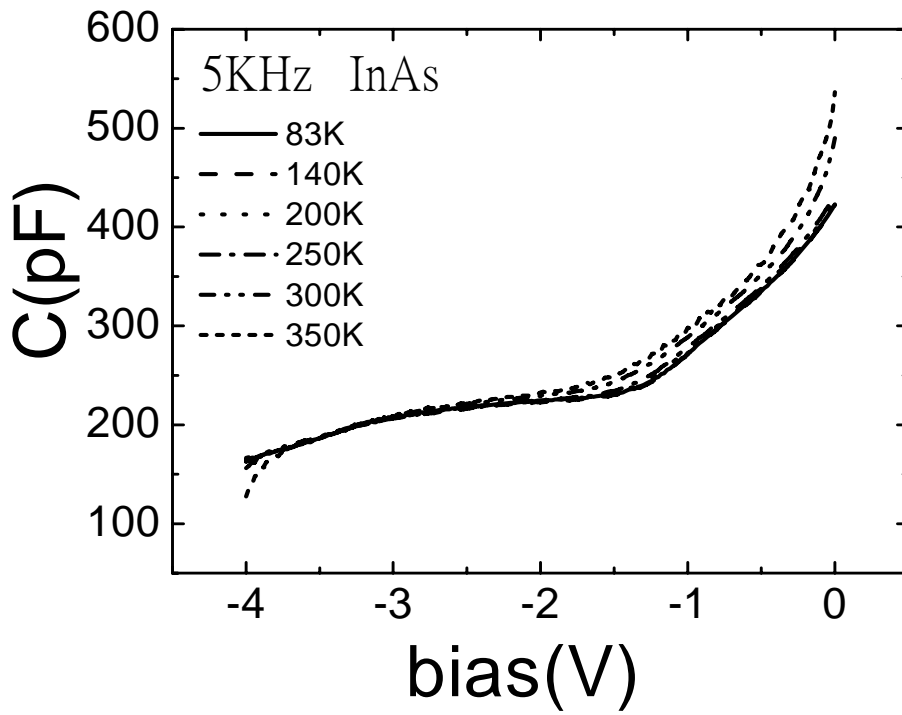


圖 4-9(a) InAs 低頻 5KHz 變溫電容-電壓特性圖

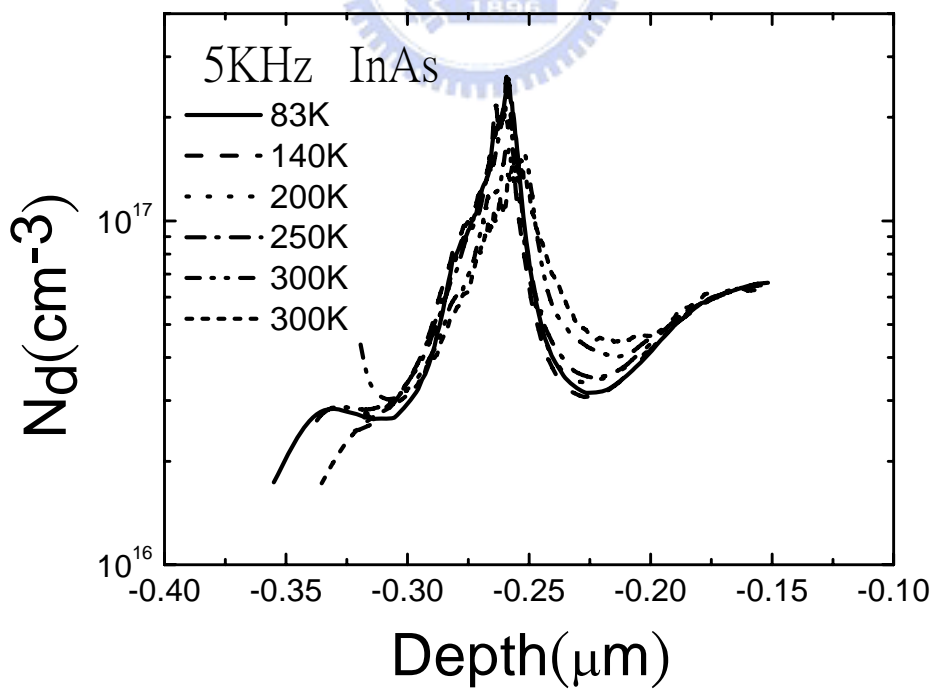


圖 4-9(b) InAs 低頻 5KHz 變溫縱深分佈特性圖

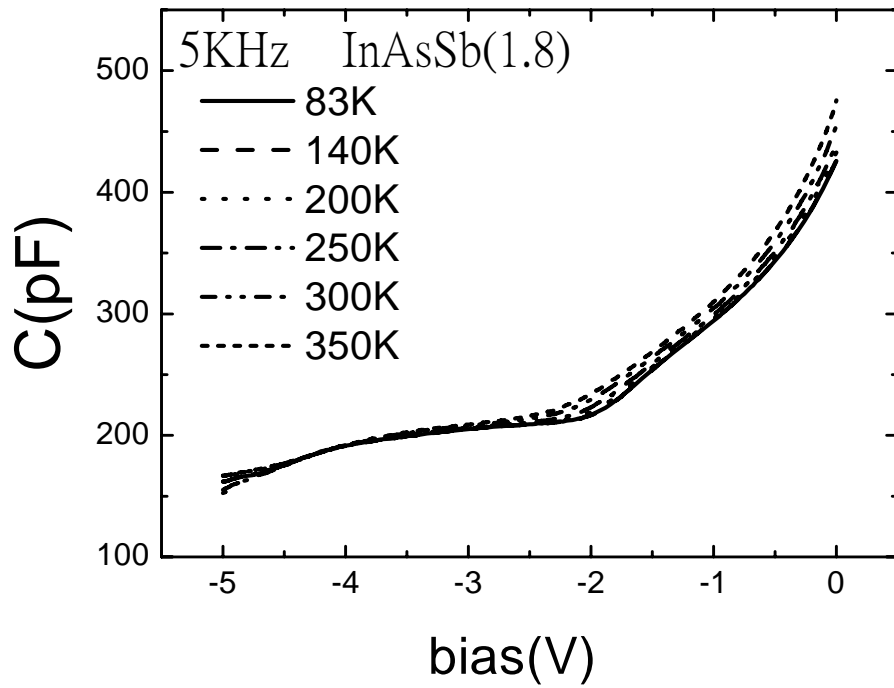


圖 4-10(a) InAsSb(1.8)低頻 5KHz 變溫電容-電壓特性圖

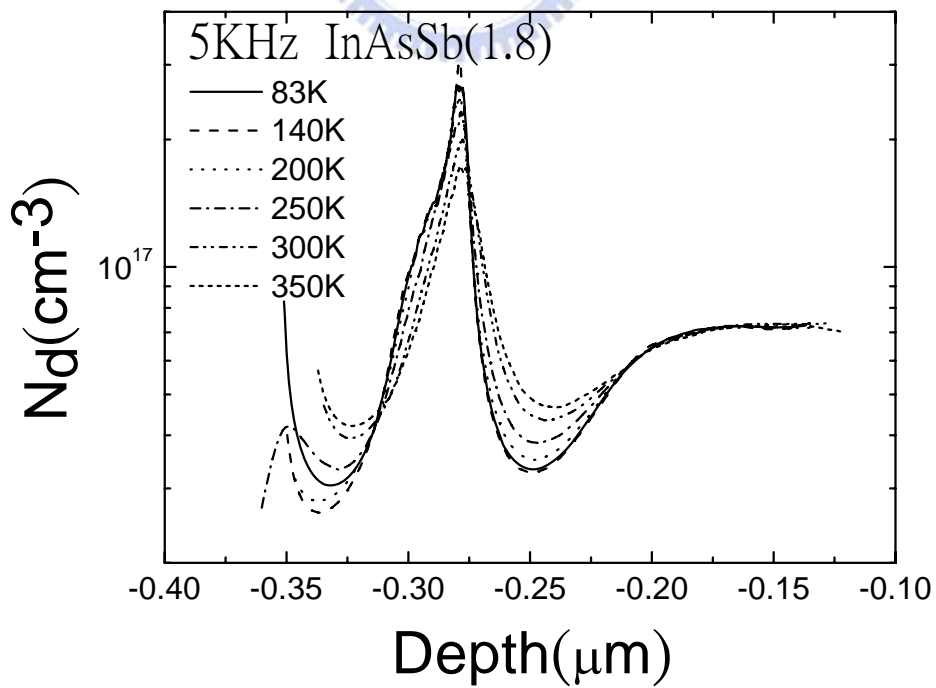


圖 4-10 (b) InAsSb(1.8)低頻 5KHz 變溫縱深分佈特性圖

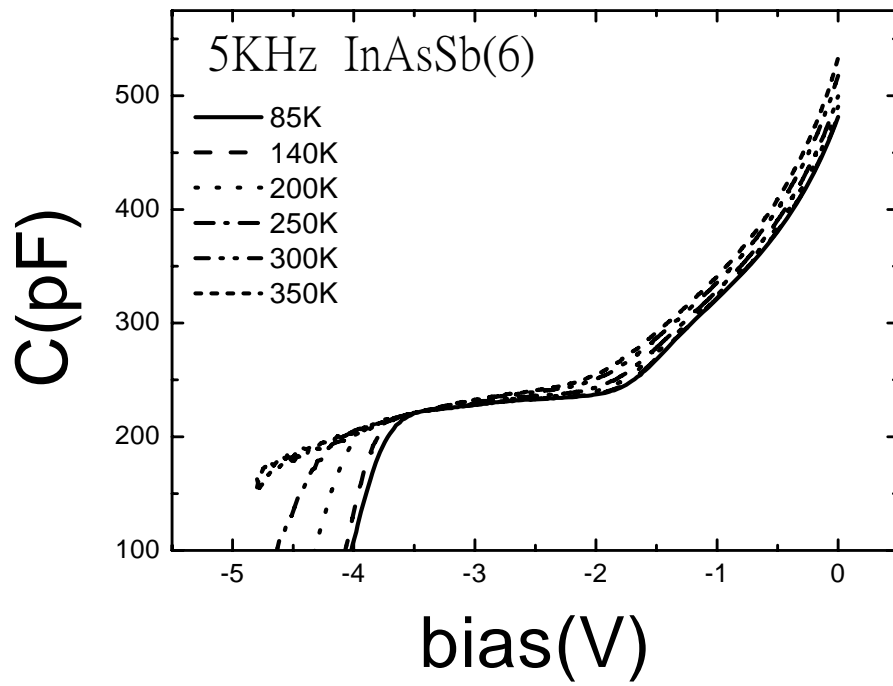


圖 4-11(a) InAsSb(6)低頻 5KHz 變溫電容-電壓特性圖

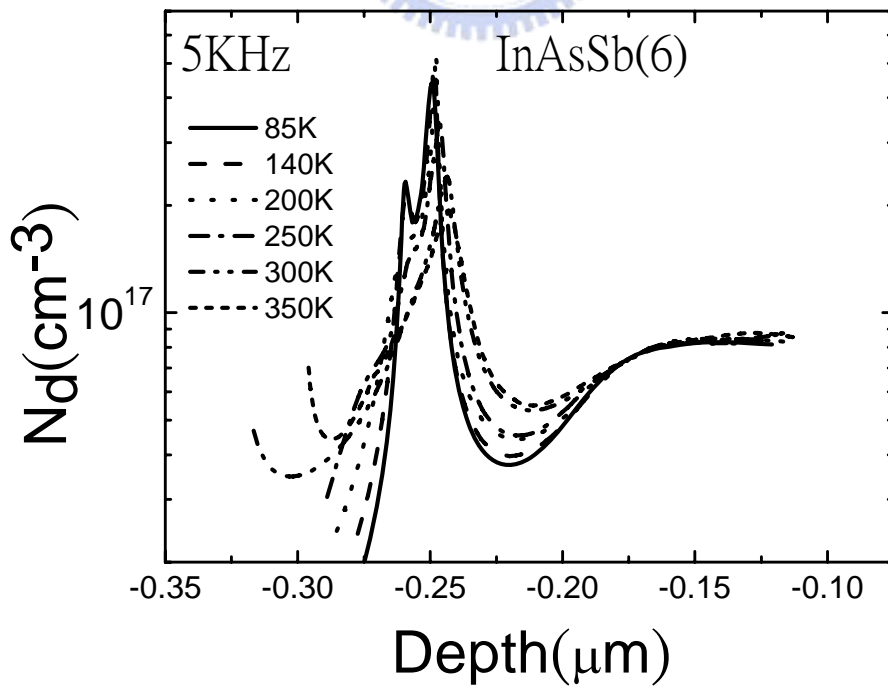


圖 4-11(b) InAsSb(6)低頻 5KHz 變溫縱深分佈特性圖

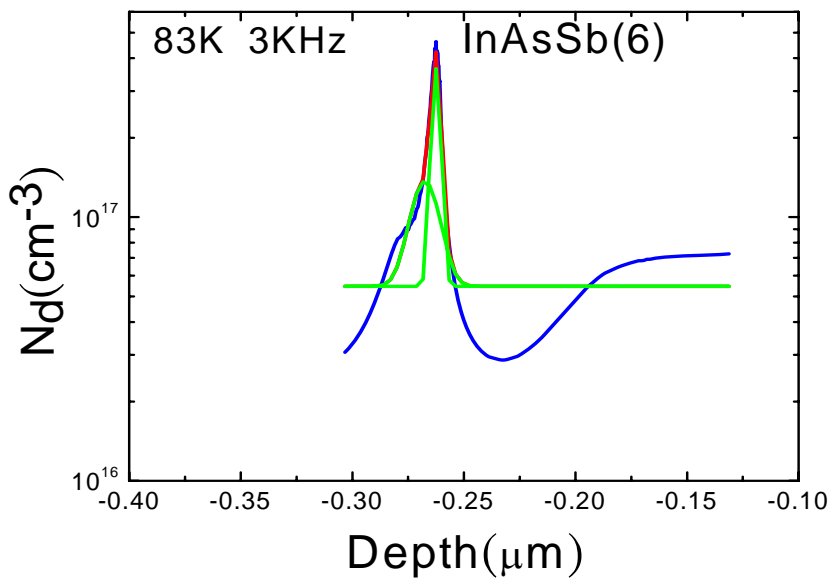
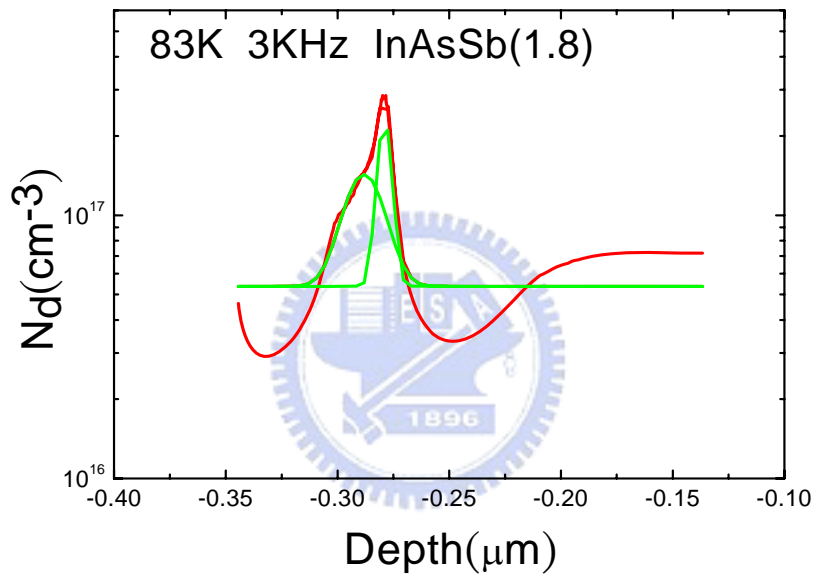
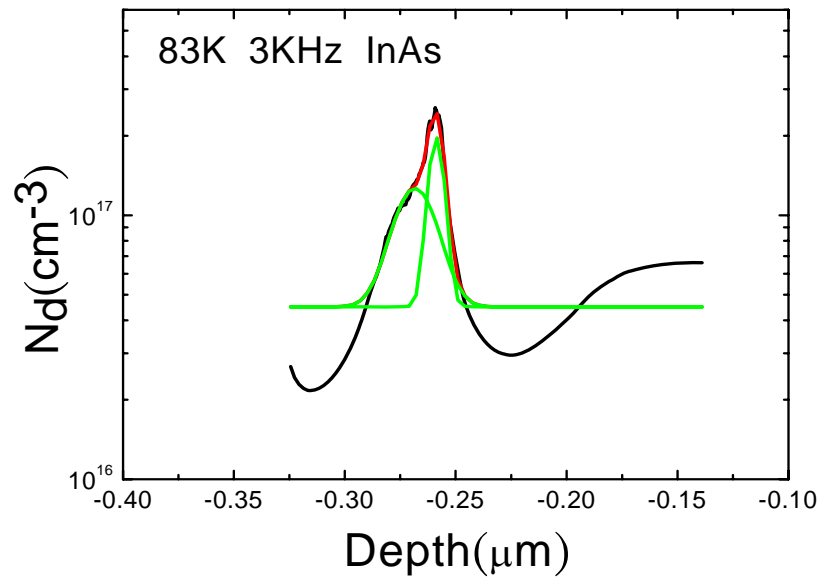


圖 4-12 三片樣品在低溫低頻縱深分佈的擬合圖



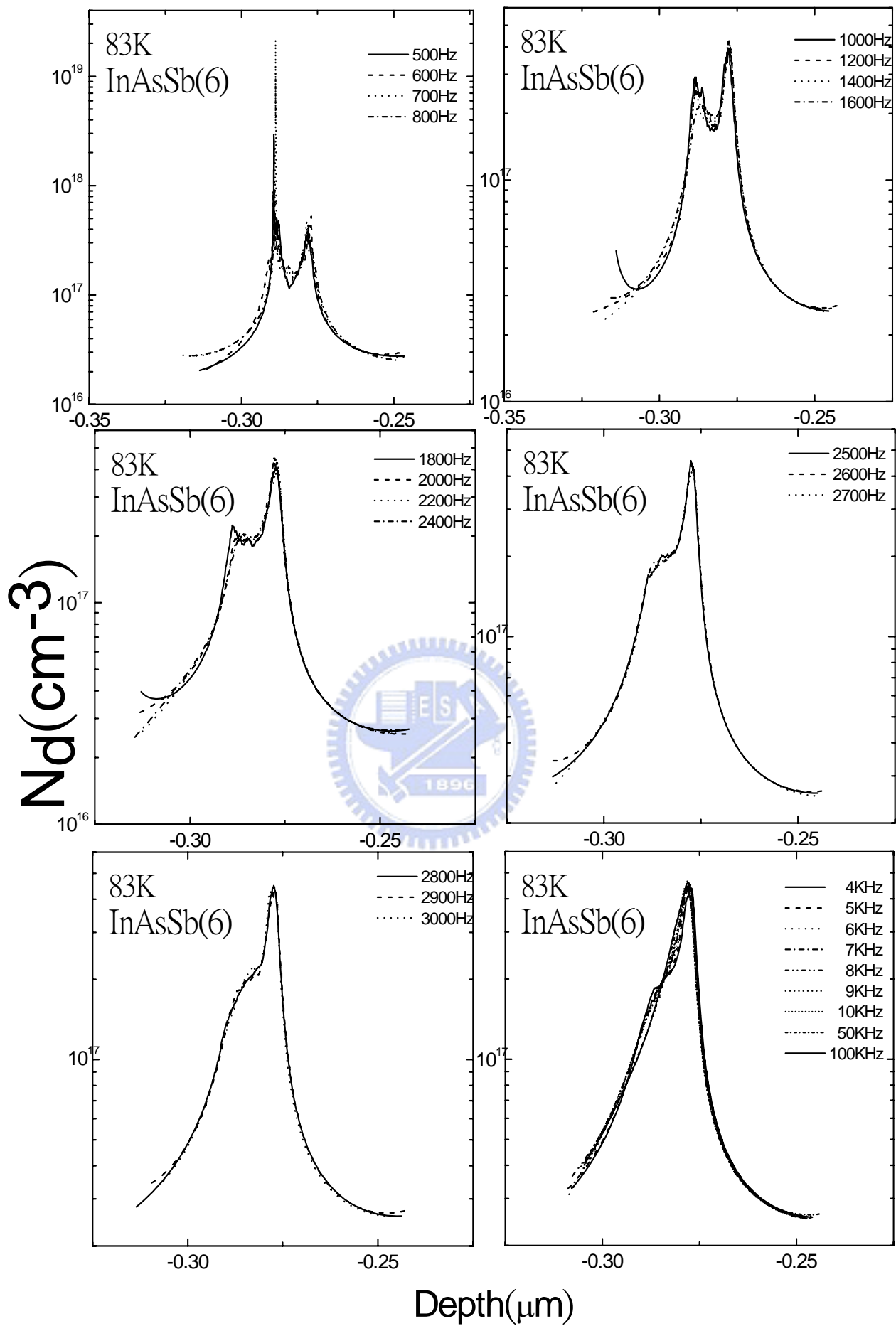


圖 4-13 InAsSb(6)低溫 83K 變頻縱深分佈特性圖

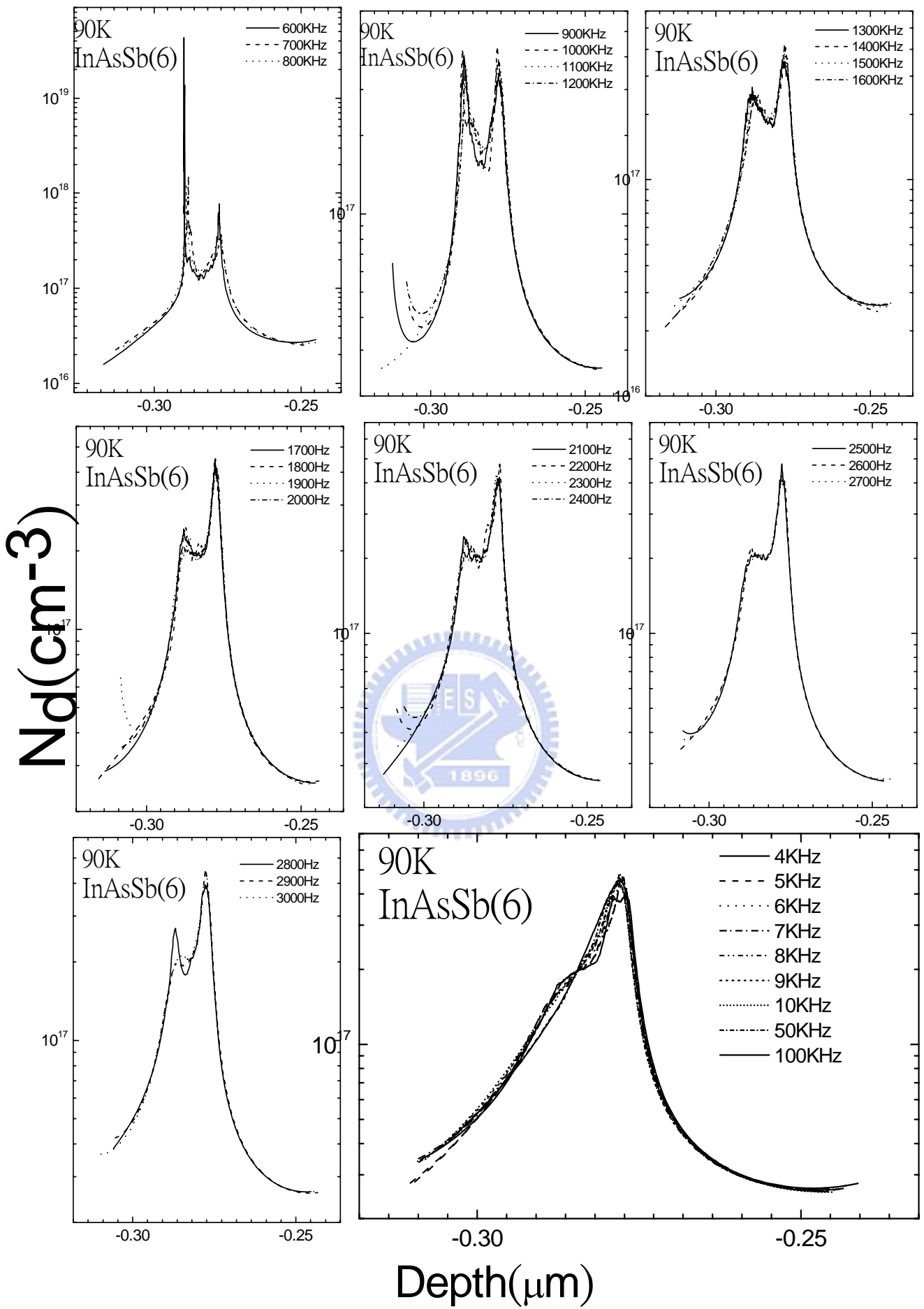


圖 4-14 InAsSb(6)低溫 90K 變頻縱深分佈特性圖

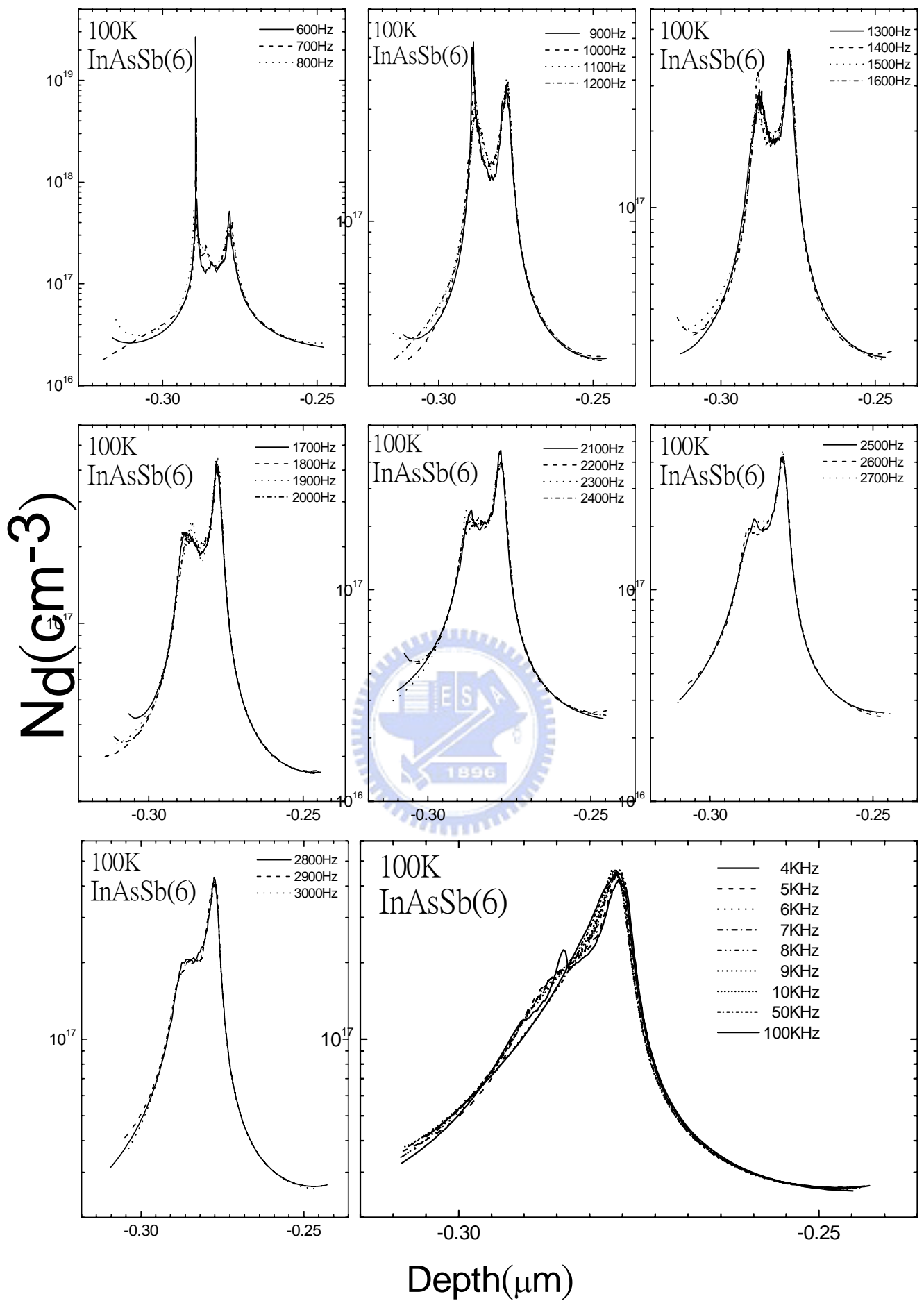


圖 4.15 InAsSb(6)低溫 100K 變頻縱深分佈特性圖

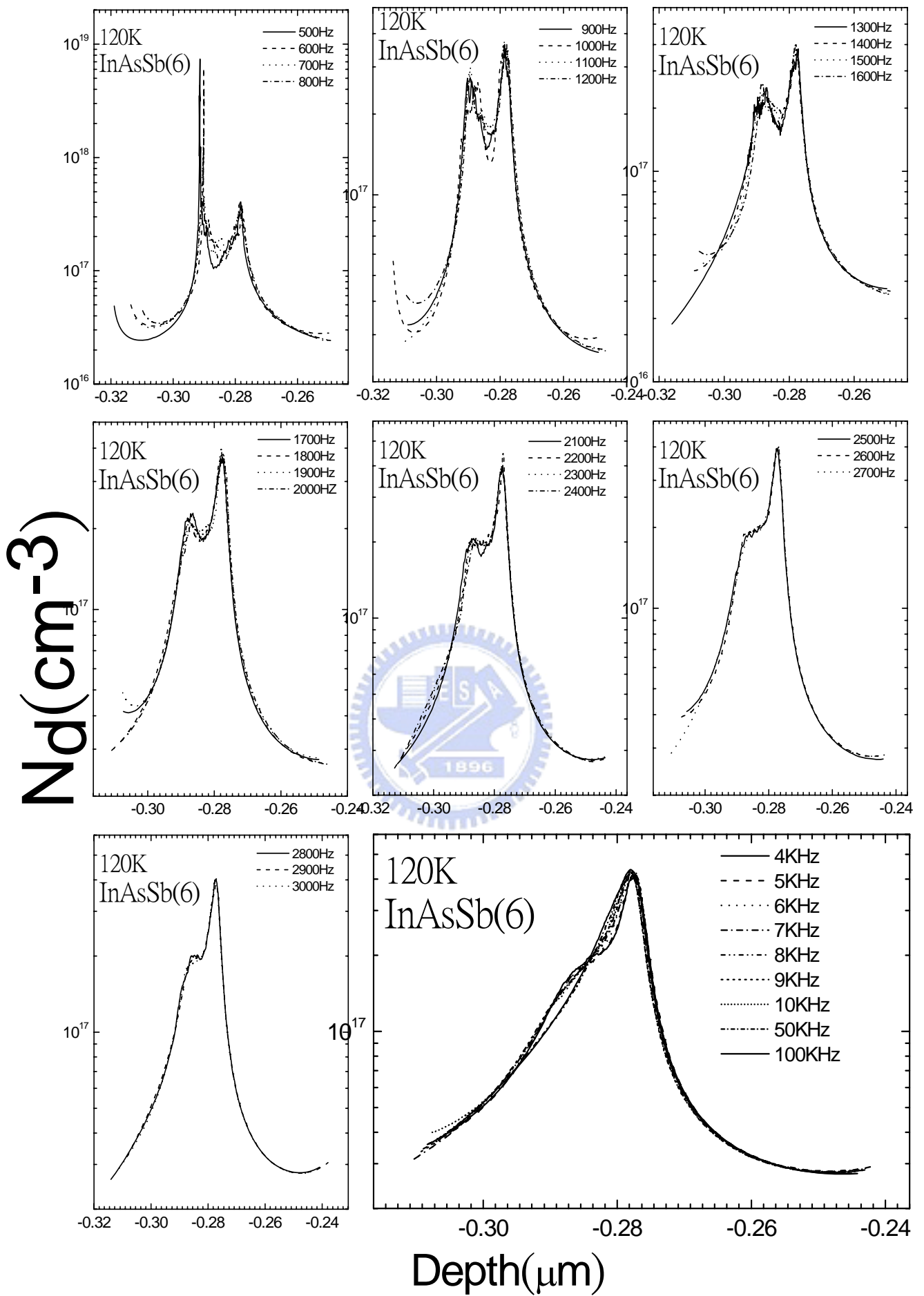


圖 4-16 InAsSb(6)低溫 120K 變頻縱深分佈特性圖

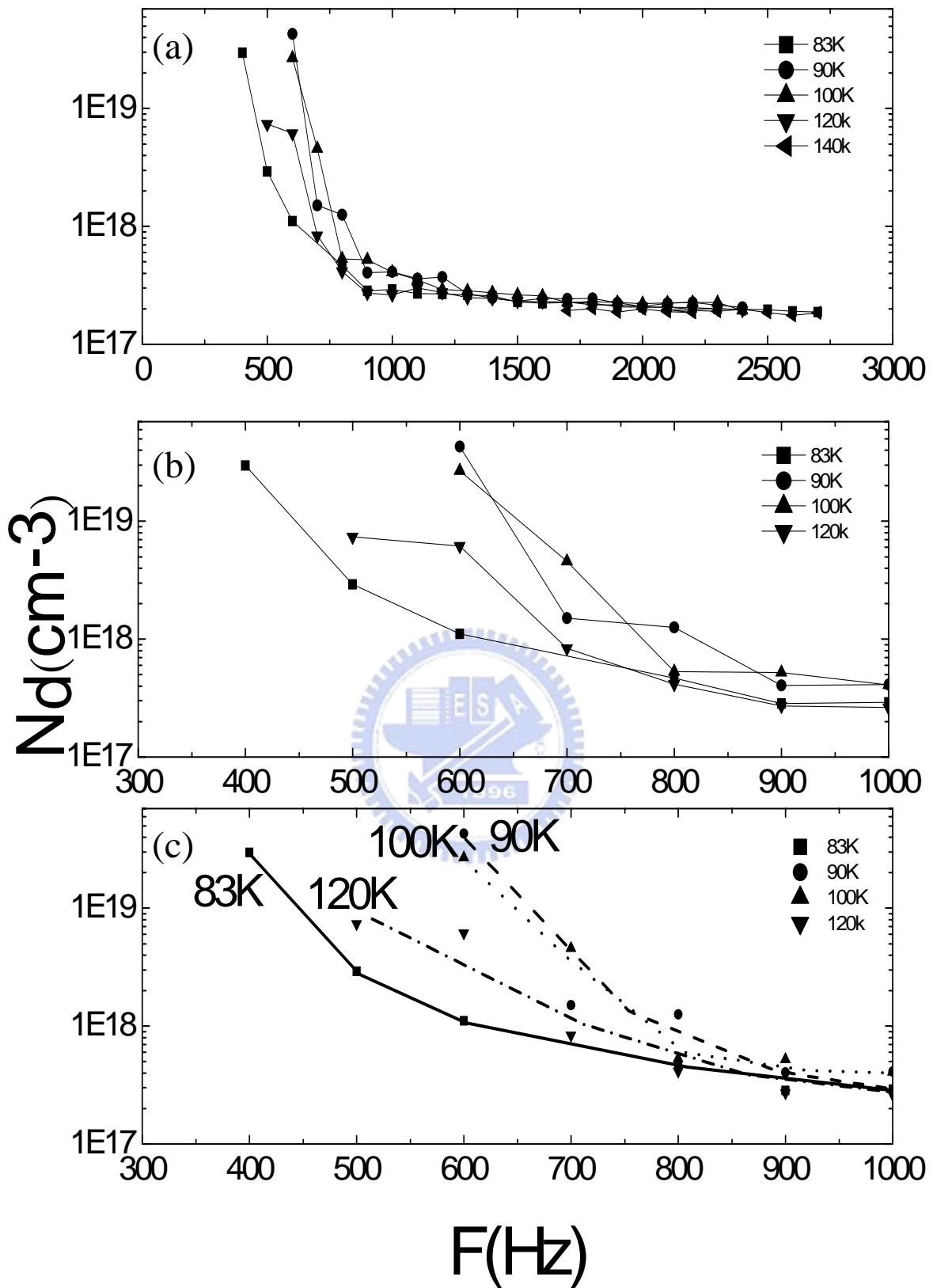


圖 4-17 InAsSb(6)低溫 83K 之濃度與頻率關係圖