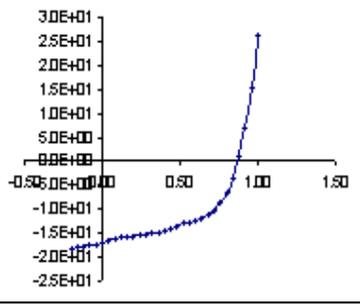
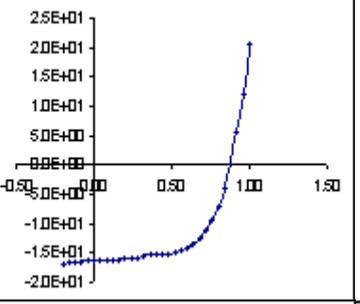
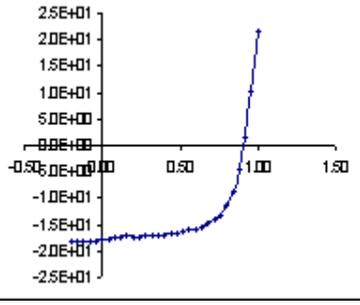
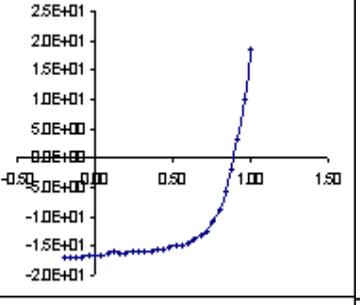
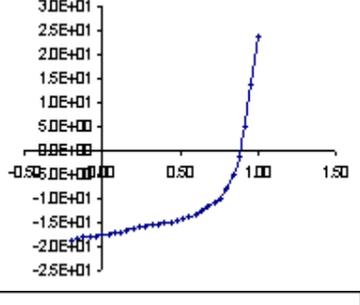
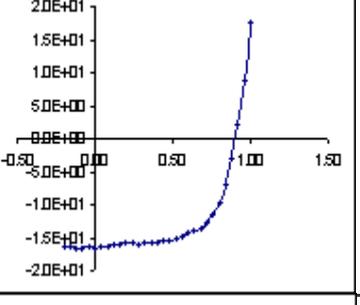
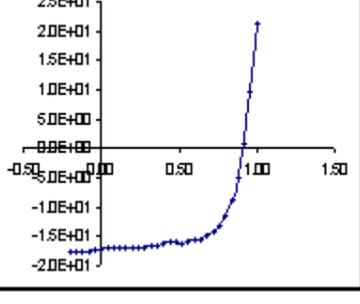
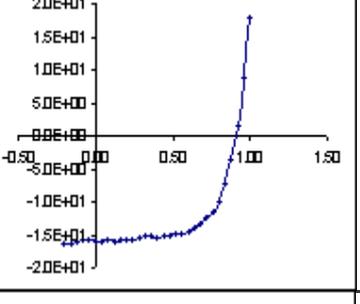
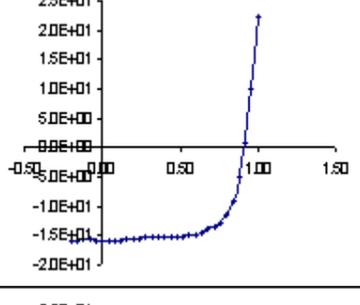
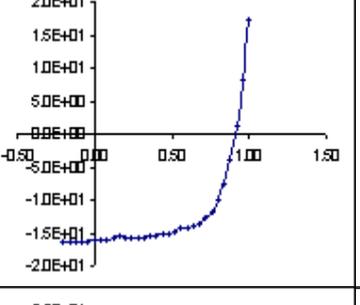
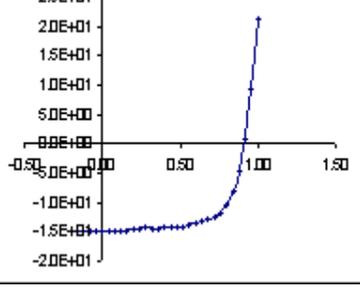
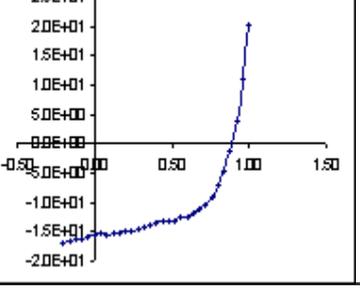


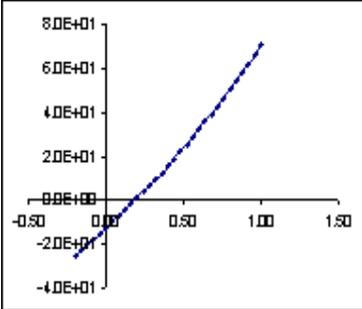
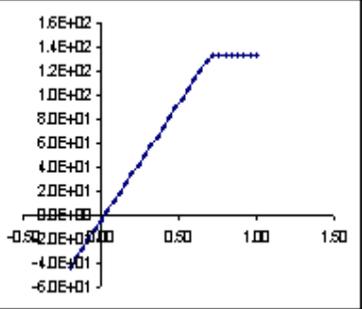
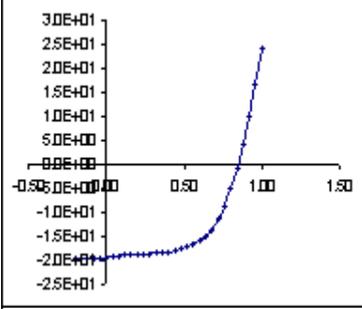
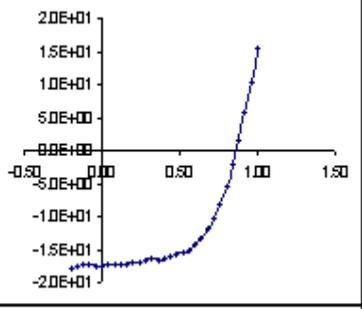
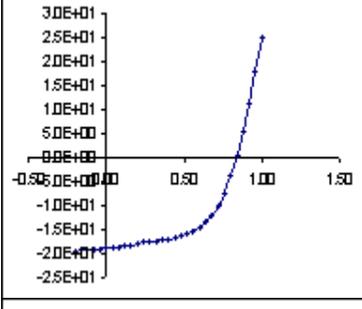
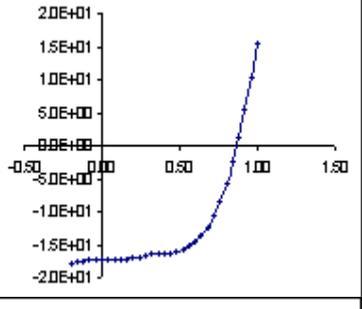
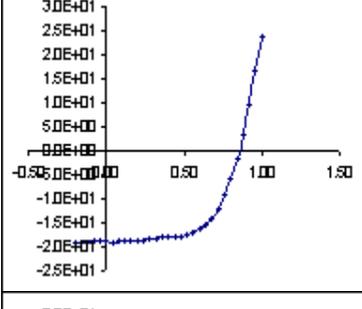
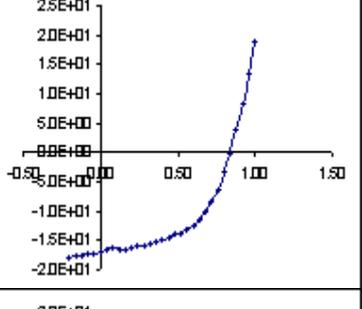
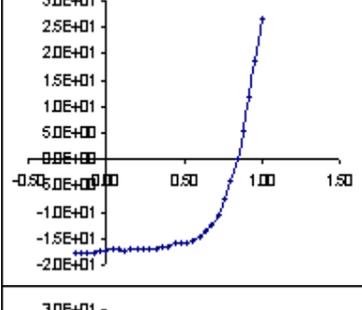
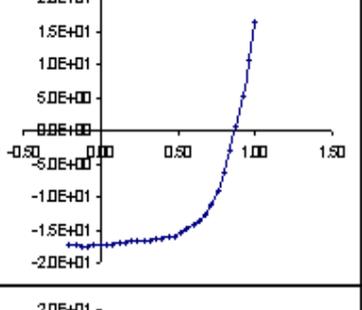
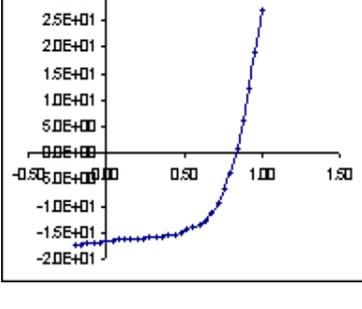
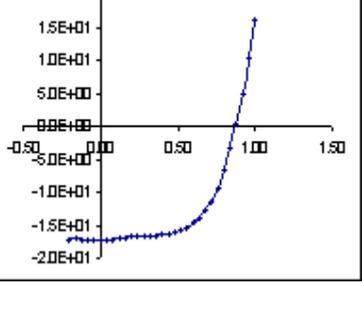
ภาคผนวก ข

ผลการวัดค่าพารามิเตอร์เซลล์แสงอาทิตย์

ผลการวัดค่าพารามิเตอร์เซลล์แสงอาทิตย์ที่สร้างบนกระจก SnO₂:F

	Sample # 1 Device # 12 Area, cm ² 0.750 Voc, V 0.87 Jsc, mA/cm ² 17.00 FF 0.52 Eff. % 7.66 Rsh, Ohm.cm ² 141.18 Rs, Ohm.cm ² 10.70		Sample # 1 Device # 6 Area, cm ² 0.750 Voc, V 0.88 Jsc, mA/cm ² 16.25 FF 0.60 Eff. % 8.57 Rsh, Ohm.cm ² 1875.00 Rs, Ohm.cm ² 11.13
	Sample # 1 Device # 11 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 17.91 FF 0.62 Eff. % 10.13 Rsh, Ohm.cm ² 245.90 Rs, Ohm.cm ² 7.83		Sample # 1 Device # 5 Area, cm ² 0.750 Voc, V 0.89 Jsc, mA/cm ² 16.59 FF 0.61 Eff. % 9.03 Rsh, Ohm.cm ² 310.88 Rs, Ohm.cm ² 8.81
	Sample # 1 Device # 10 Area, cm ² 0.750 Voc, V 0.88 Jsc, mA/cm ² 17.58 FF 0.51 Eff. % 7.97 Rsh, Ohm.cm ² 163.93 Rs, Ohm.cm ² 7.95		Sample # 1 Device # 4 Area, cm ² 0.750 Voc, V 0.90 Jsc, mA/cm ² 16.46 FF 0.62 Eff. % 9.27 Rsh, Ohm.cm ² 1538.46 Rs, Ohm.cm ² 8.99
	Sample # 1 Device # 9 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 17.10 FF 0.66 Eff. % 10.31 Rsh, Ohm.cm ² 175.95 Rs, Ohm.cm ² 8.20		Sample # 1 Device # 3 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 15.94 FF 0.63 Eff. % 9.11 Rsh, Ohm.cm ² 444.44 Rs, Ohm.cm ² 9.08
	Sample # 1 Device # 8 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 15.87 FF 0.67 Eff. % 9.76 Rsh, Ohm.cm ² 1578.95 Rs, Ohm.cm ² 8.16		Sample # 1 Device # 2 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 16.16 FF 0.63 Eff. % 9.23 Rsh, Ohm.cm ² 359.28 Rs, Ohm.cm ² 9.22
	Sample # 1 Device # 7 Area, cm ² 0.750 Voc, V 0.91 Jsc, mA/cm ² 14.92 FF 0.66 Eff. % 9.01 Rsh, Ohm.cm ² 845.07 Rs, Ohm.cm ² 8.81		Sample # 1 Device # 1 Area, cm ² 0.750 Voc, V 0.88 Jsc, mA/cm ² 15.63 FF 0.55 Eff. % 7.64 Rsh, Ohm.cm ² 169.49 Rs, Ohm.cm ² 9.36

ผลการวัดค่าพารามิเตอร์เซลล์แสงอาทิตย์ที่สร้างบนกระจก ZnO:B

	Sample # 1 Device # 12 Area, cm ² 0.750 Voc, V 0.19 Jsc, mA/cm ² 12.14 FF 0.24 Eff. % 0.54 Rsh, Ohm.cm ² 14.68 Rs, Ohm.cm ² 14.68		Sample # 1 Device # 6 Area, cm ² 0.750 Voc, V 0.02 Jsc, mA/cm ² 4.17 FF 0.00 Eff. % 0.00 Rsh, Ohm.cm ² 5.18 Rs, Ohm.cm ² 5.18
	Sample # 1 Device # 11 Area, cm ² 0.750 Voc, V 0.8 Jsc, mA/cm ² 19.39 FF 0.59 Eff. % 9.65 Rsh, Ohm.cm ² 465.12 Rs, Ohm.cm ² 8.39		Sample # 1 Device # 5 Area, cm ² 0.750 Voc, V 0.86 Jsc, mA/cm ² 17.44 FF 0.57 Eff. % 8.58 Rsh, Ohm.cm ² 465.12 Rs, Ohm.cm ² 11.68
	Sample # 1 Device # 10 Area, cm ² 0.750 Voc, V 0.84 Jsc, mA/cm ² 19.01 FF 0.59 Eff. % 9.65 Rsh, Ohm.cm ² 232.56 Rs, Ohm.cm ² 8.50		Sample # 1 Device # 4 Area, cm ² 0.750 Voc, V 0.87 Jsc, mA/cm ² 17.30 FF 0.58 Eff. % 8.75 Rsh, Ohm.cm ² 389.61 Rs, Ohm.cm ² 11.37
	Sample # 1 Device # 9 Area, cm ² 0.750 Voc, V 0.85 Jsc, mA/cm ² 18.90 FF 0.61 Eff. % 9.88 Rsh, Ohm.cm ² 232.56 Rs, Ohm.cm ² 8.50		Sample # 1 Device # 3 Area, cm ² 0.750 Voc, V 0.84 Jsc, mA/cm ² 16.94 FF 0.53 Eff. % 7.47 Rsh, Ohm.cm ² 131.29 Rs, Ohm.cm ² 11.10
	Sample # 1 Device # 8 Area, cm ² 0.750 Voc, V 0.84 Jsc, mA/cm ² 17.24 FF 0.61 Eff. % 8.79 Rsh, Ohm.cm ² 175.44 Rs, Ohm.cm ² 10.09		Sample # 1 Device # 2 Area, cm ² 0.750 Voc, V 0.87 Jsc, mA/cm ² 17.41 FF 0.58 Eff. % 8.75 Rsh, Ohm.cm ² 3157.89 Rs, Ohm.cm ² 11.22
	Sample # 1 Device # 7 Area, cm ² 0.750 Voc, V 0.83 Jsc, mA/cm ² 16.71 FF 0.59 Eff. % 8.20 Rsh, Ohm.cm ² 322.58 Rs, Ohm.cm ² 10.38		Sample # 1 Device # 1 Area, cm ² 0.750 Voc, V 0.88 Jsc, mA/cm ² 17.21 FF 0.58 Eff. % 8.75 Rsh, Ohm.cm ² 666.6 Rs, Ohm.cm ² 11.10