Irreversible electric and magnetic effects in manganese perovskites EMPRESS ETHERIDGE, FENG CHEN, NATALIA NOGINOVA, NSU — Microwave absorption and dc charge transport were studied in single crystals of manganese perovskites. Irreversible changes in dc electric conductivity were observed in a broad temperature range. Starting from 140 K and below, similar irreversible changes were observed in microwave field dependent absorption. Irreversibility T-H dependence was obtained. We explain these effects taking into account local lattice and magnetic phase transformation processes.