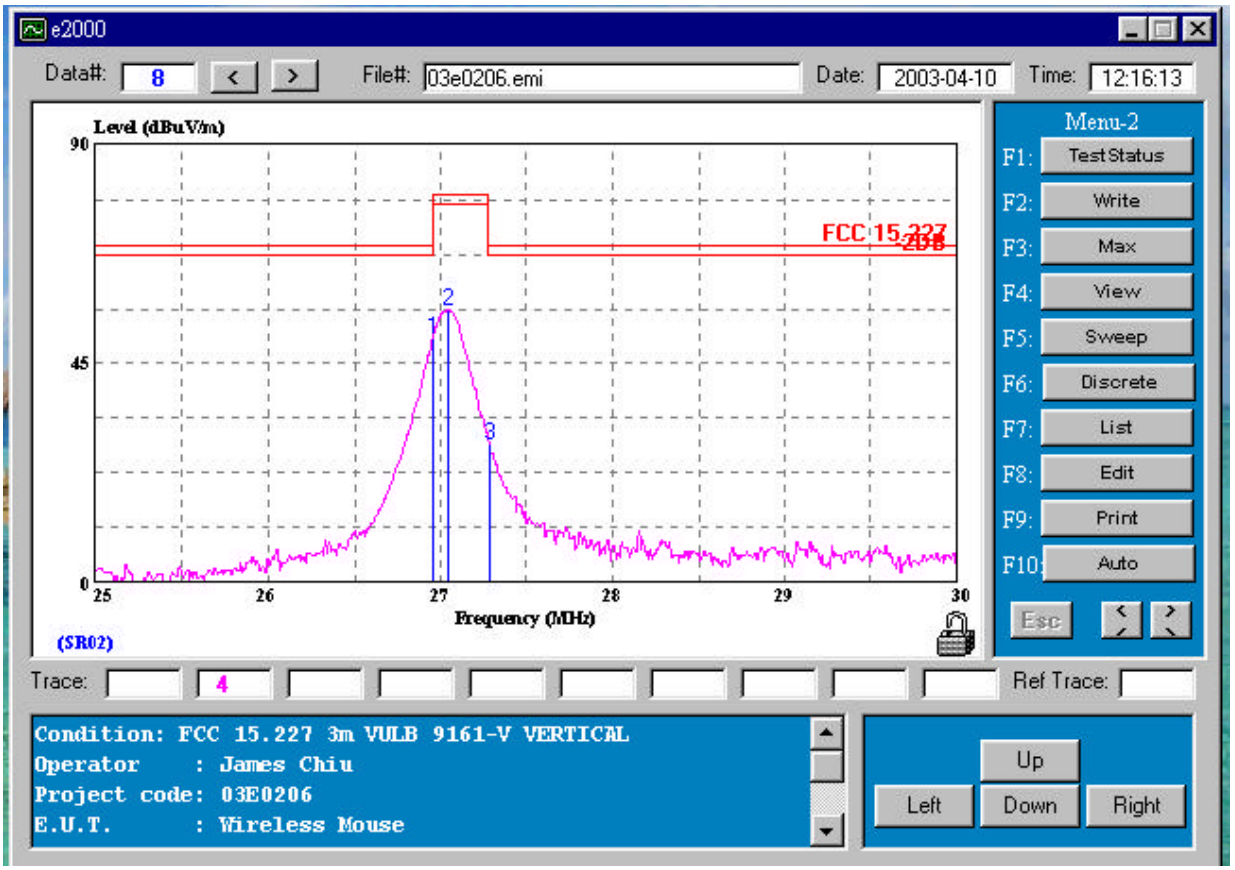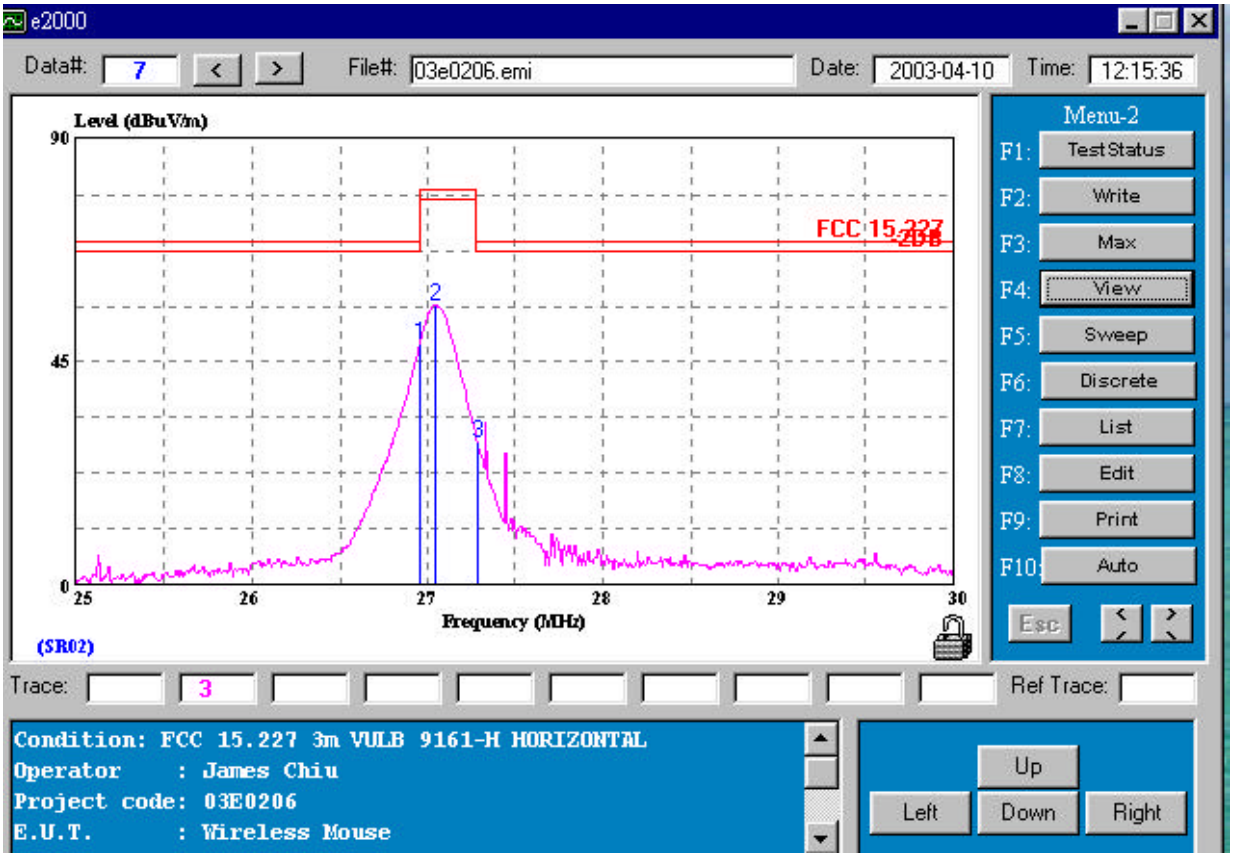Bandwidth Requirement