L^p-boundedness of wave operators for two dimensional Schroedinger operators with point interaction

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We prove that wave operators for two dimensional Schroedinger operators with point interaction are always bounded in L^p spaces for $1 < p < \infty$. We also show that the method of the proof may be applied for showing the same property of wave operators for two dimensional Schroedinger operators with regular potential if the threshold singularities are of s-wave resonance type.