

## SIMULTANEOUS TRANSITIONS IN IR ABSORPTION SPECTRA OF SYSTEM CAPABLE TO THE COMPLEX FORMATION

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We observed a number of simultaneous vibrational transitions in the absorption spectra of gas and liquid mixtures with HCl, CHCl<sub>3</sub>, CDCl<sub>3</sub>, H<sub>2</sub>O and some alcohols. Frequencies, widths and integral band intensities of the IR spectra have been measured. In approximation of pair electrostatic induction mechanism the absolute intensities of observed IR absorption band were calculated. In these calculations the models of intermolecular potentials of the Lennard-Johns (12:6) and Kihara were used. Important role of complex formation on intensity of simultaneous transitions bands was demonstrated.