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135: 159418v **High Resolution FTIR Spectroscopy of DCCCl: Anharmonic Resonances in the ν_1 and ν_2 Bands.** Wang, DongBing; Imajo, Takashi; Tanaka, Keiichi; Tanaka, Takehiko; Burger, Hans (Department of Chemistry, Faculty of Science, Kyushu University 33, Hakozaki, Higashiku, Fukuoka, Japan 812–8581). *J. Mol. Spectrosc.* **2001**, 207(1), 70–76 (Eng), Academic Press. High–resoln. IR spectra of the ν_1 and ν_2 bands of DCCCl were obsd. using Bruker IFS 120HR Fourier transform spectrometers at resolns. of 0.0044 and 0.0035 cm^{-1}, resp. For the $DCC^{35}Cl$ isotopomer, the ν_1 as well as the ν_2 band was found to be heavily perturbed. Detailed analyses revealed that the ν_1 state is in resonance with the $l = 0$ substate of the $\nu_3 + 4\nu_4$ state and that the ν_2 state is in resonance with the $l = 0$ substate of the $\nu_3 + 4\nu_5$ state. The rotational consts. played a key role in identifying the perturbing states. In contrast, for the $DCC^{37}Cl$ isotopomer, the rotational structures of the ν_1 and ν_2 states are almost regular but slightly perturbed by interactions with the $\nu_3 + 4\nu_4$ and $\nu_3 + 4\nu_5$ states, resp. The consts. of resonances as well as the mol. consts. for the ν_1, ν_2, $\nu_3 + 4\nu_4$ and $\nu_3 + 4\nu_5$ states were detd. (c) 2001 Academic Press.

(ν_1, ν_2)