MICROWAVE SPECTRA OF ISOTOPIQUE SPECIES OF METHANOL

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Microwave spectrum of CH$_3^{18}$OH has been observed in frequency range between 8 and 200 GHz. Observed lines are those with $J \leq 39, |K| \leq 8$ for both the $A$ and $E$ species in the torsional ground state and some lines, mainly $a$-type transitions, in the torsional excited states for $\tilde{v}_2=1-3$. Total 568 lines have been fitted to 64 parameters in a reduced Hamiltonian with a root-mean square (RMS) of 0.262 MHz, where the $A$ and $E$ substates are treated simultaneously. Microwave spectrum of CH$_3$OD has been observed in the frequency range between 7 and 200 GHz. These lines have been analyzed by using a reduced Hamiltonian.