

Supplementary material

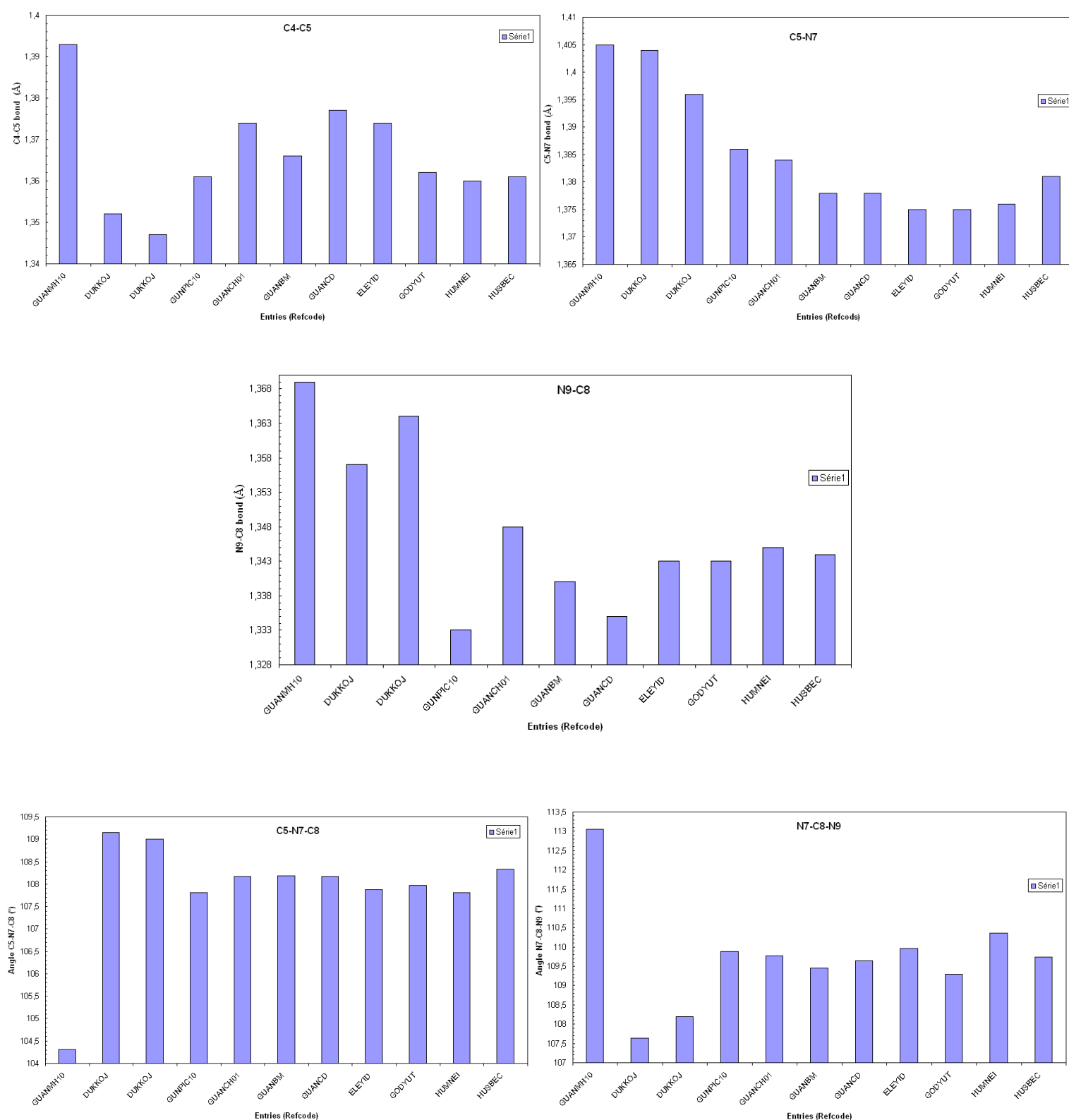


Figure 12. Variation of the imidazolyl ring geometry in the monoprotonated guanine.

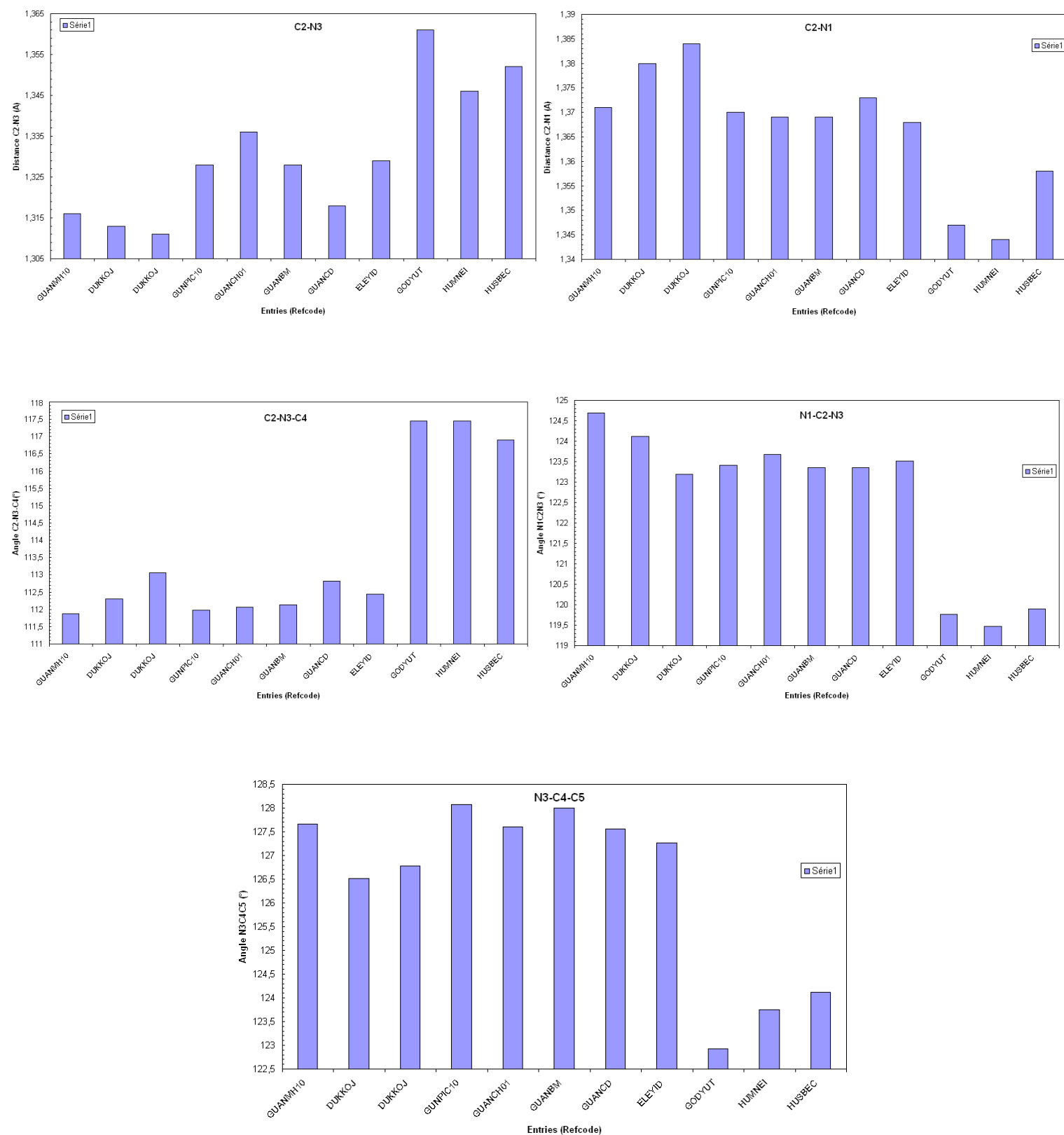


Figure 13. Variation of the pyrimidine ring geometry in the diprotonated guanine .