

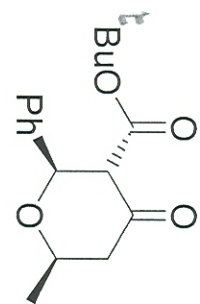
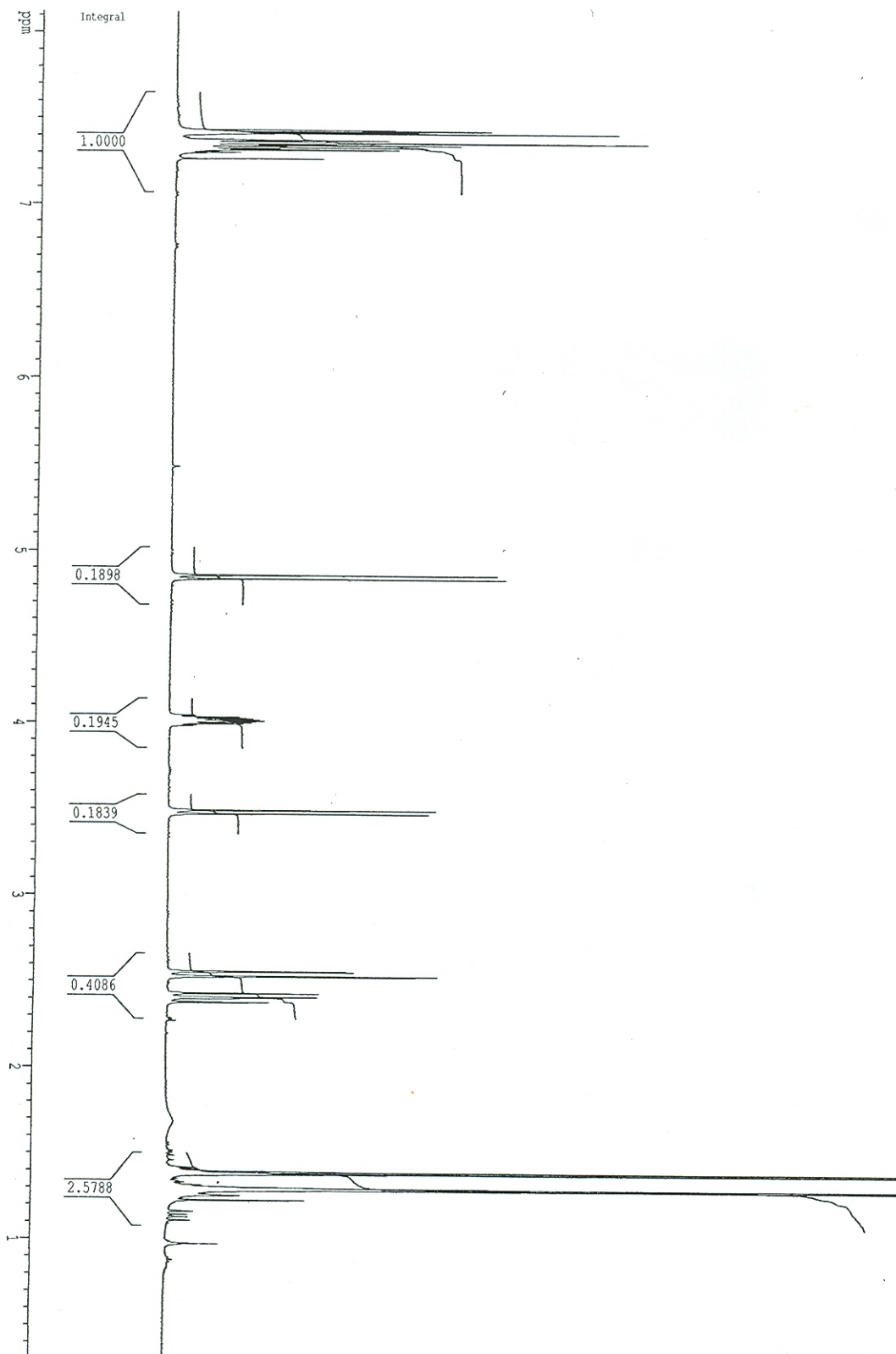
Supporting Information

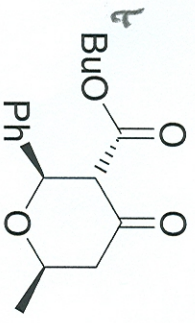
Teaching an Old Dog New Tricks: Revisiting the Maitland-Japp Reaction. The One Pot, Multi-Component Construction of Highly Substituted Tetrahydropyran-4-ones

Paul A. Clarke, William H. C. Martin, Jason M. Hargreaves, Claire Wilson and Alexander J. Blake.*

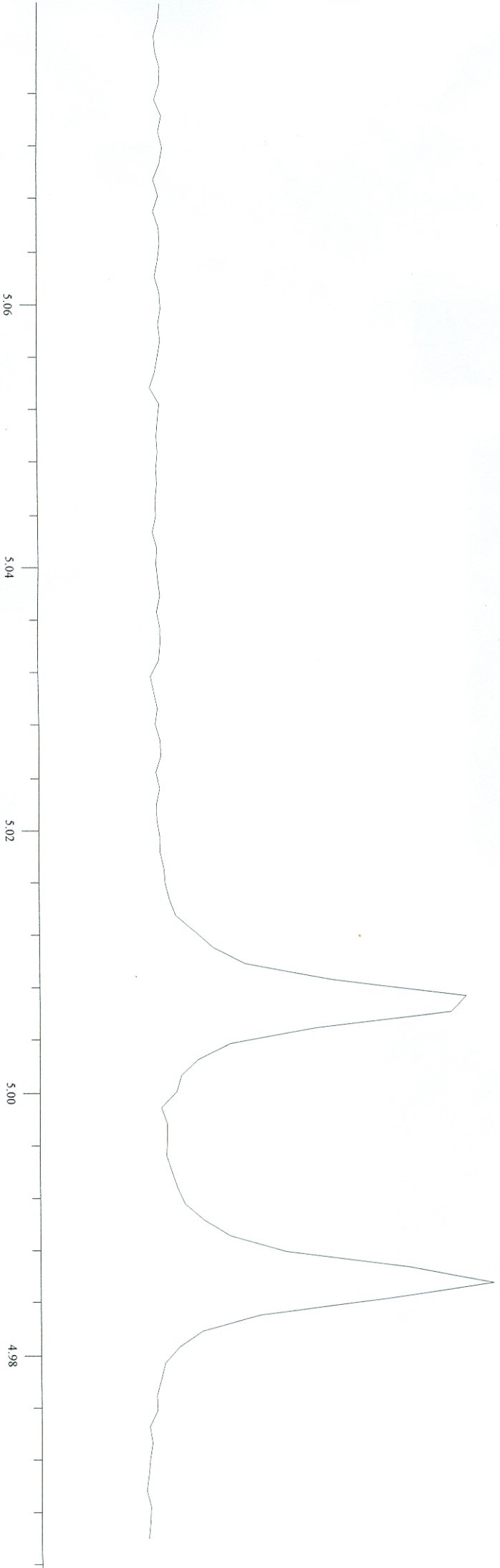
Determination of the enantiomeric excess **22d** and **29**

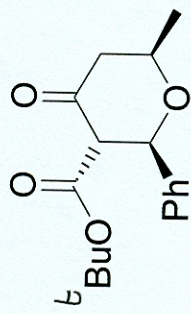
¹H NMR shift reagent experiment: **22d** (1 mg) in CDCl₃ (0.45 ml) with 50 mol% (-) Eu(hfc)₃ at 500 MHz. ¹H NMR shift reagent experiment: **29** (1 mg) in CDCl₃ (0.45 ml) with 15 mol% (-) Eu(hfc)₃ at 400 MHz. See following spectra.





single enantiomer

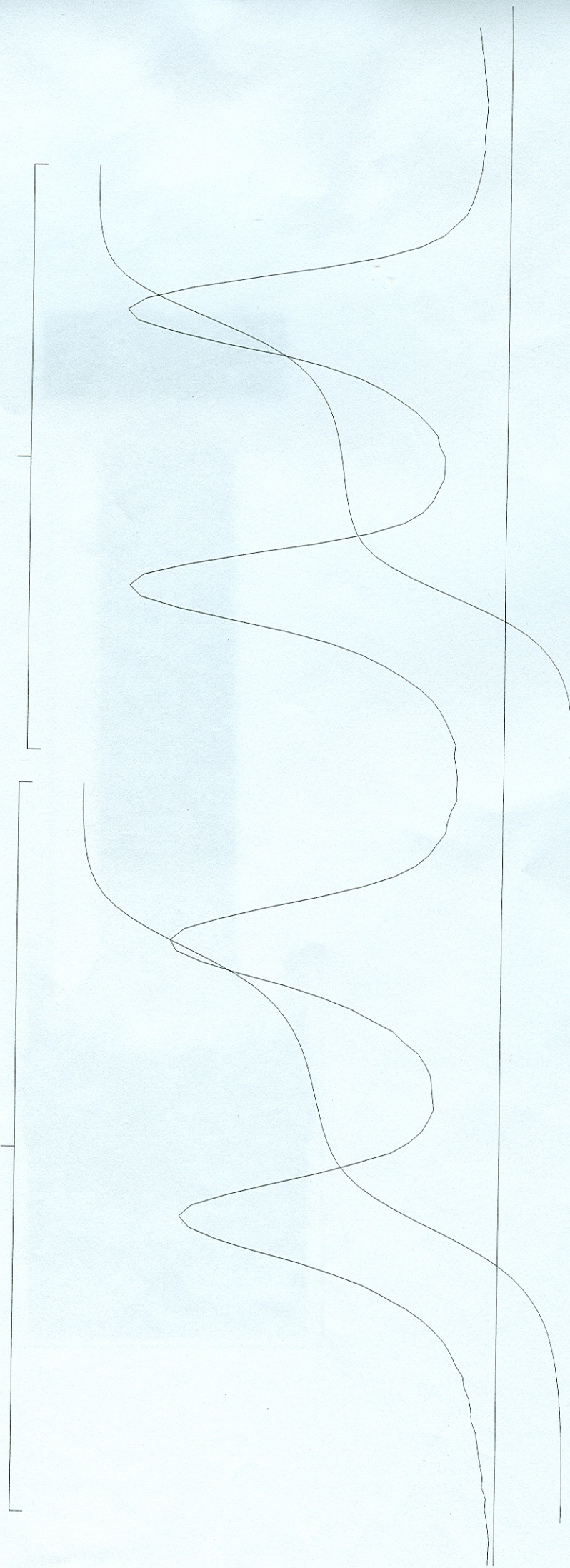




racemate

0.5

0.5



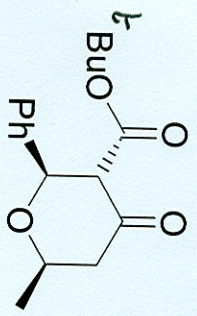
5.14

5.12

5.10

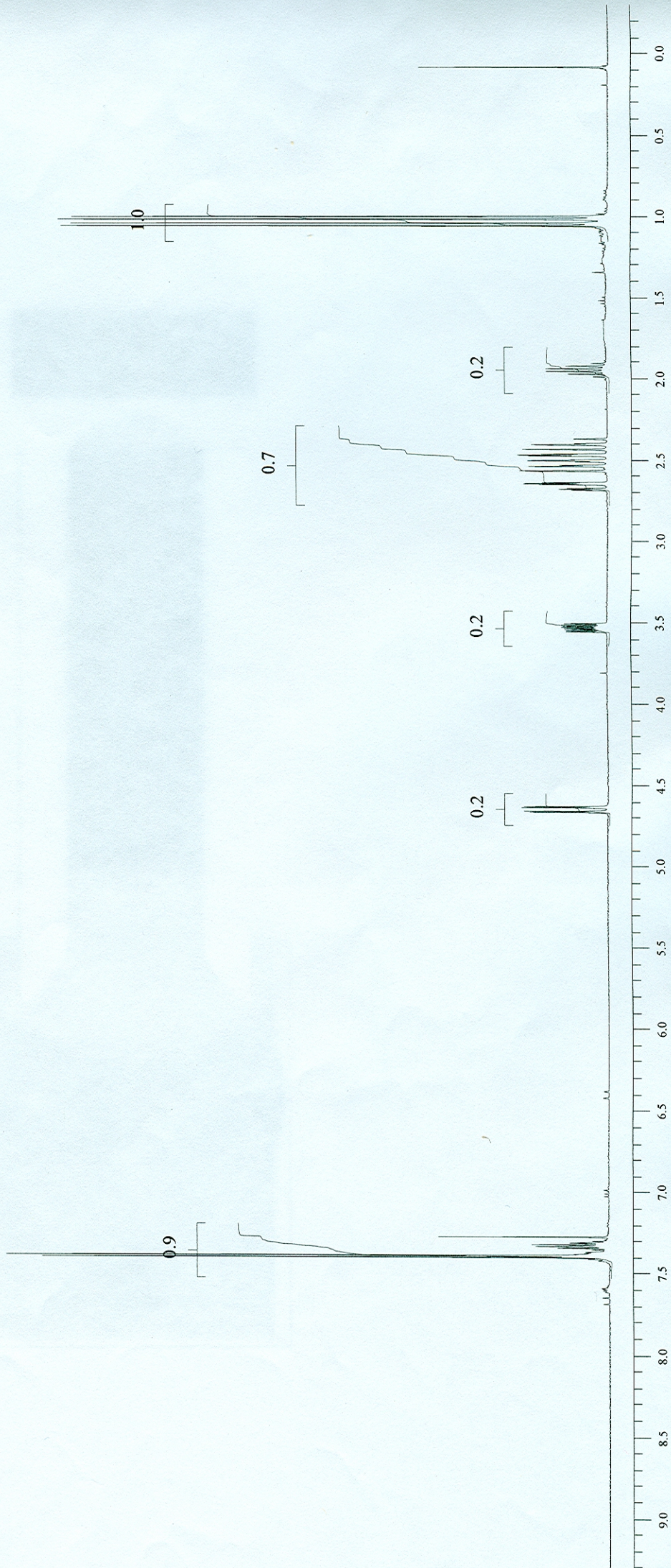
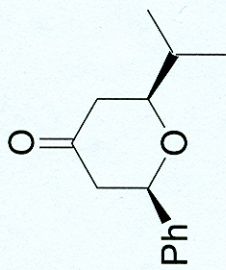
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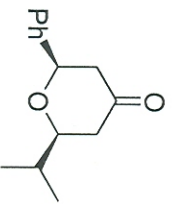
5.06



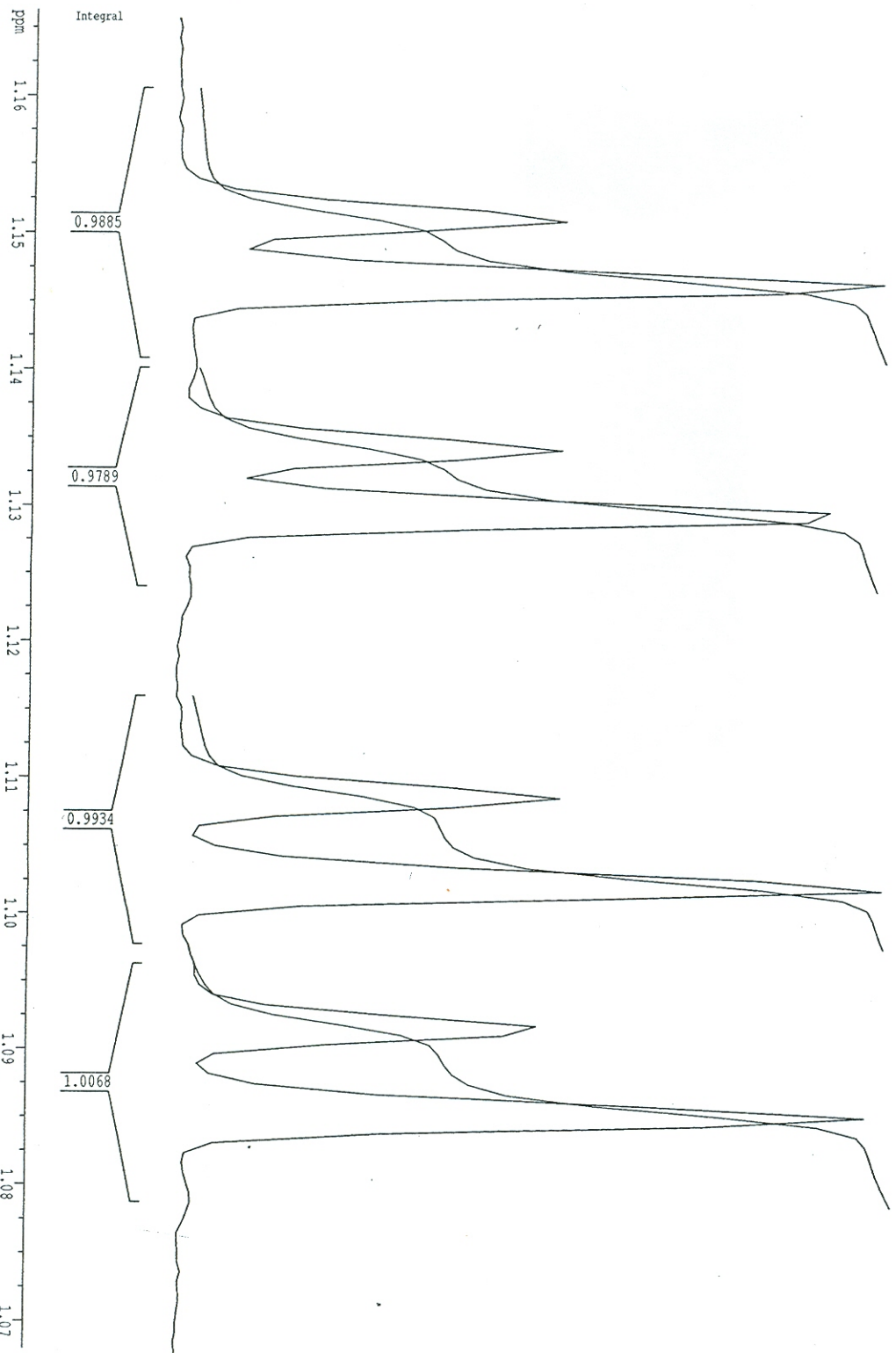
single enantiomer doped with racemate

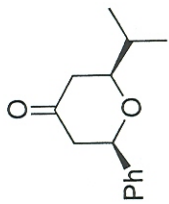




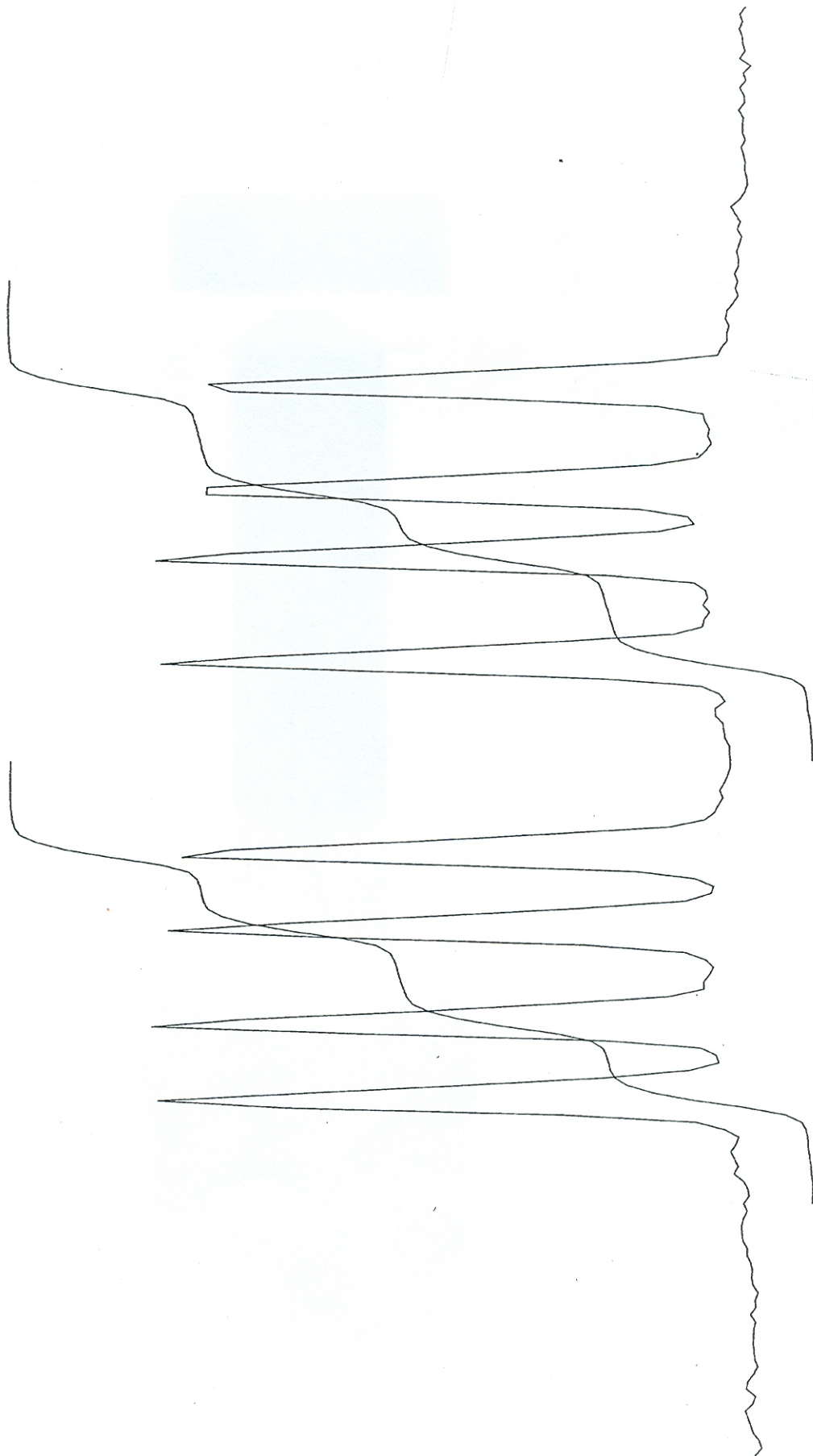


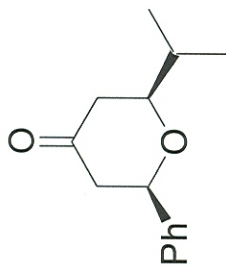
single enantiomer doped with racemate





racemate





single enantiomer

