Inorganic Chemistry
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Supplementary Material

Fig.1 pH dependence of the ^{1}H-NMR resonances of ligand PCTA-[14] recorded at 400 MHz and 25°C.

Fig.2 pH dependence of the ^{1}H-NMR resonances of ligand PCTA-[13] recorded at 400 MHz and 25°C.

Fig.3 ^{1}H NMR spectra of **a)** LaPCTA-[14] , **b)** LaPCTA-[13] , **c)** LaPCTA-[12], recorded at 400 MHz and 50°C, in D_2O at pD = 7. The label w indicates HDO signal, whereas the asterisk indicates CH_3OH signal present as a impurity. *tert*-butyl alcohol was added as an internal reference (δ = 1.29 ppm).

Fig.4 ^{1}H NMR spectra of **a)** LuPCTA-[14] , **b)** LuPCTA-[13] , **c)** LuPCTA-[12] recorded at 400 MHz and 50°C. in D_2O at pD = 7. The label w indicates HDO. *tert*-butyl alcohol was added as an internal reference (δ= 1.29 ppm).

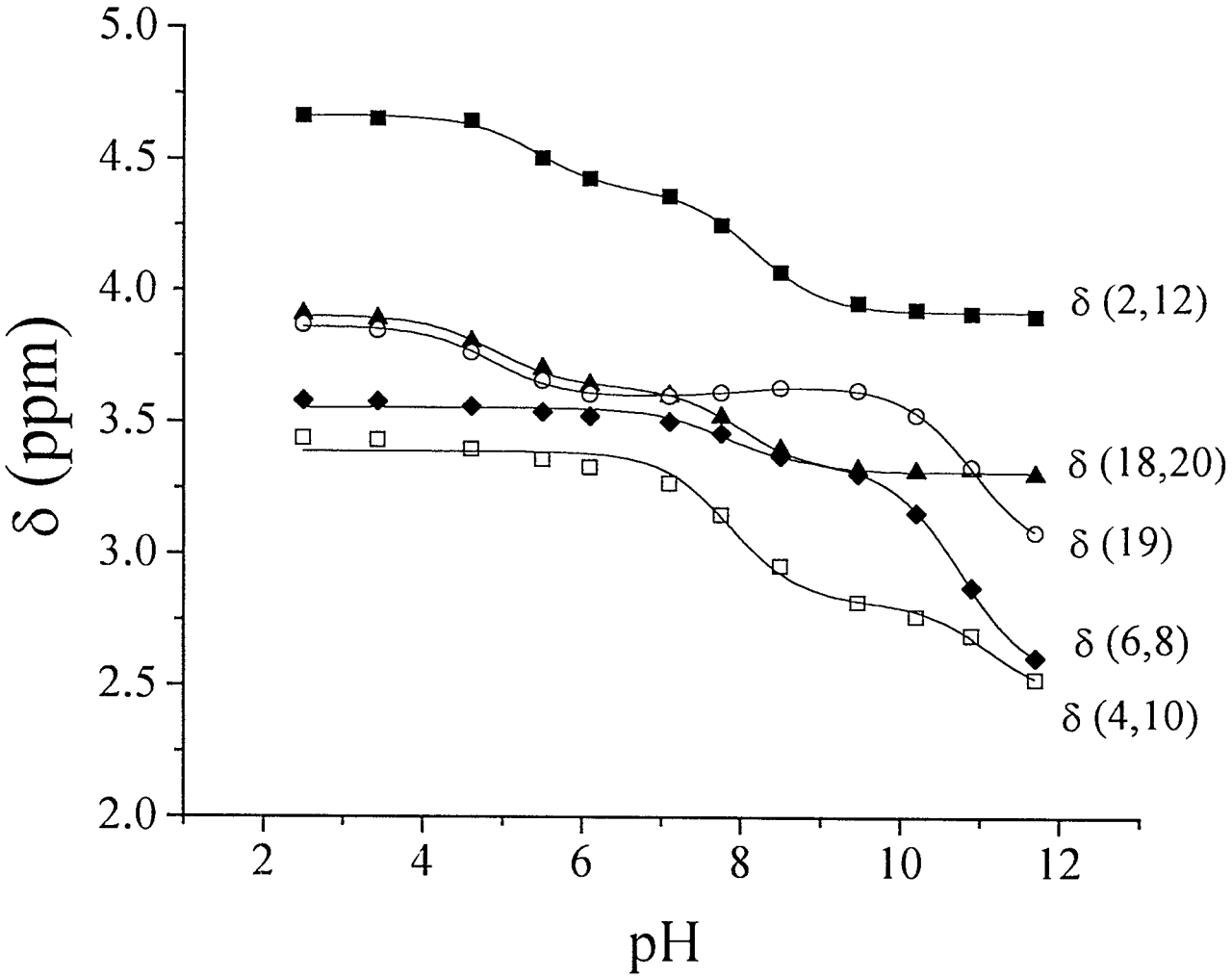

Figure 1

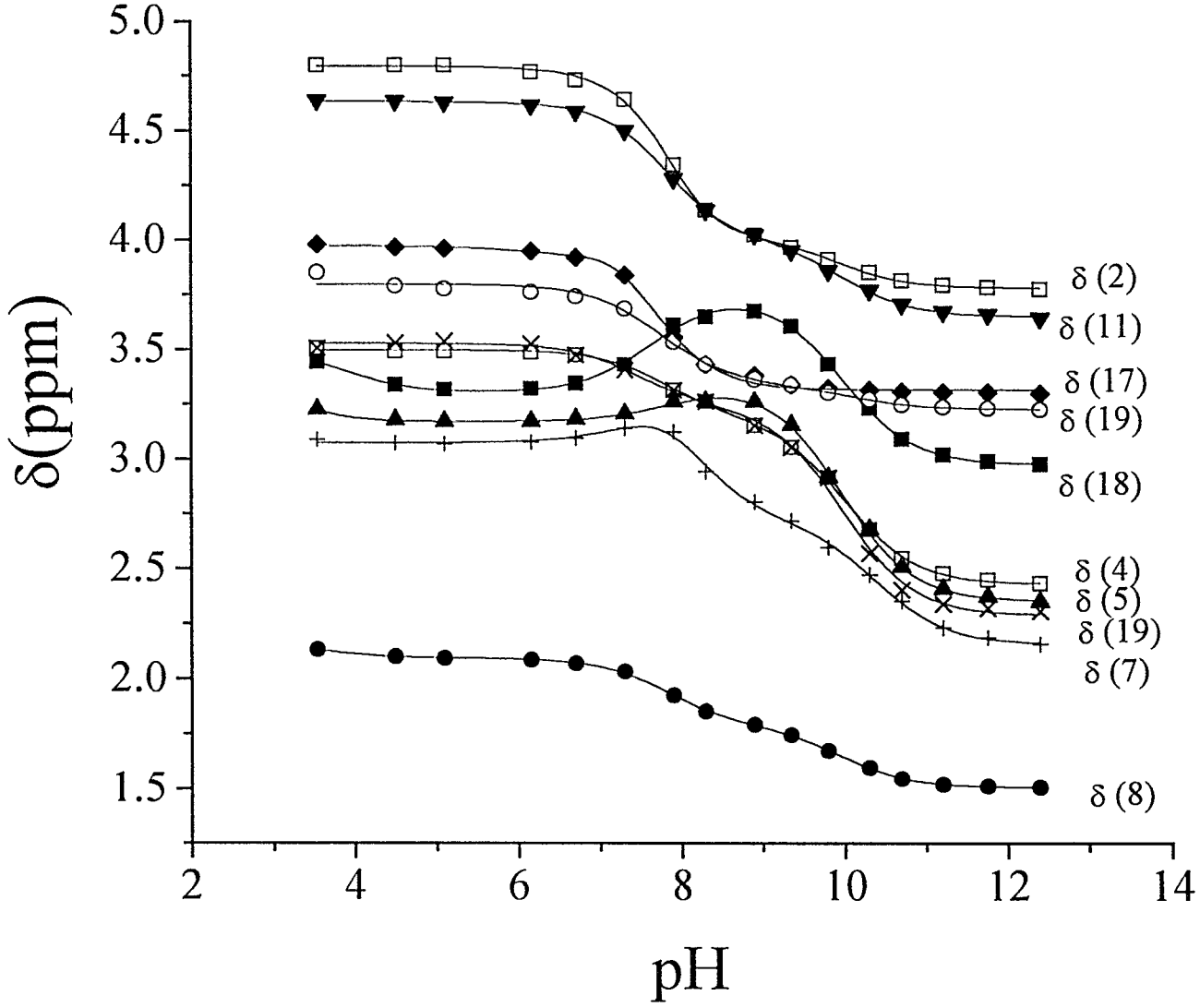
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
δ(ppm)
2
4
6
8
10
12
14
pH
δ (2)
δ (11)
δ (17)
δ (19)
δ (18)
δ (4)
δ (5)
δ (19)
δ (7)
δ (8)

Figure 2

SUPPL. MAT

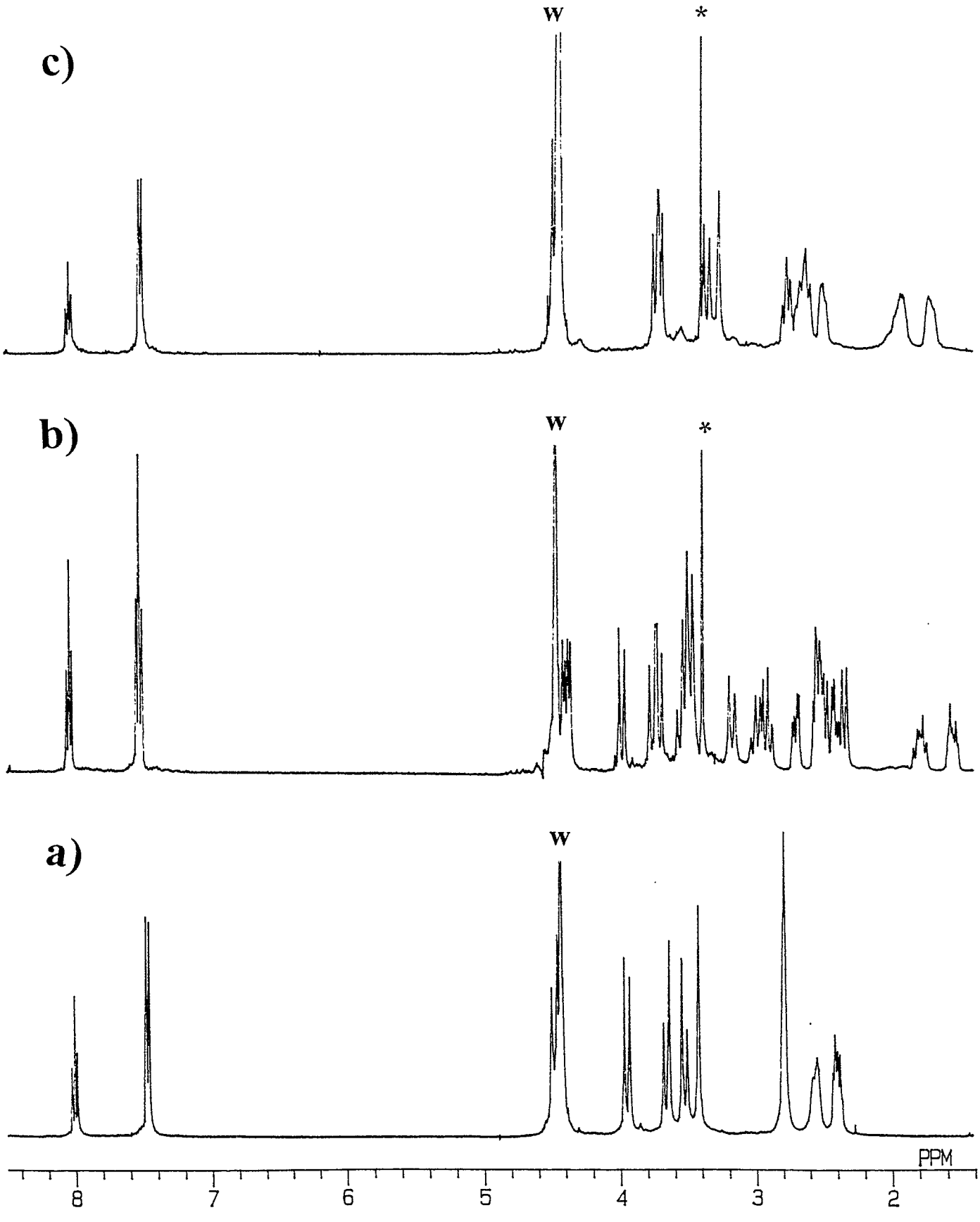

Figure 3

SUPPL. MAT

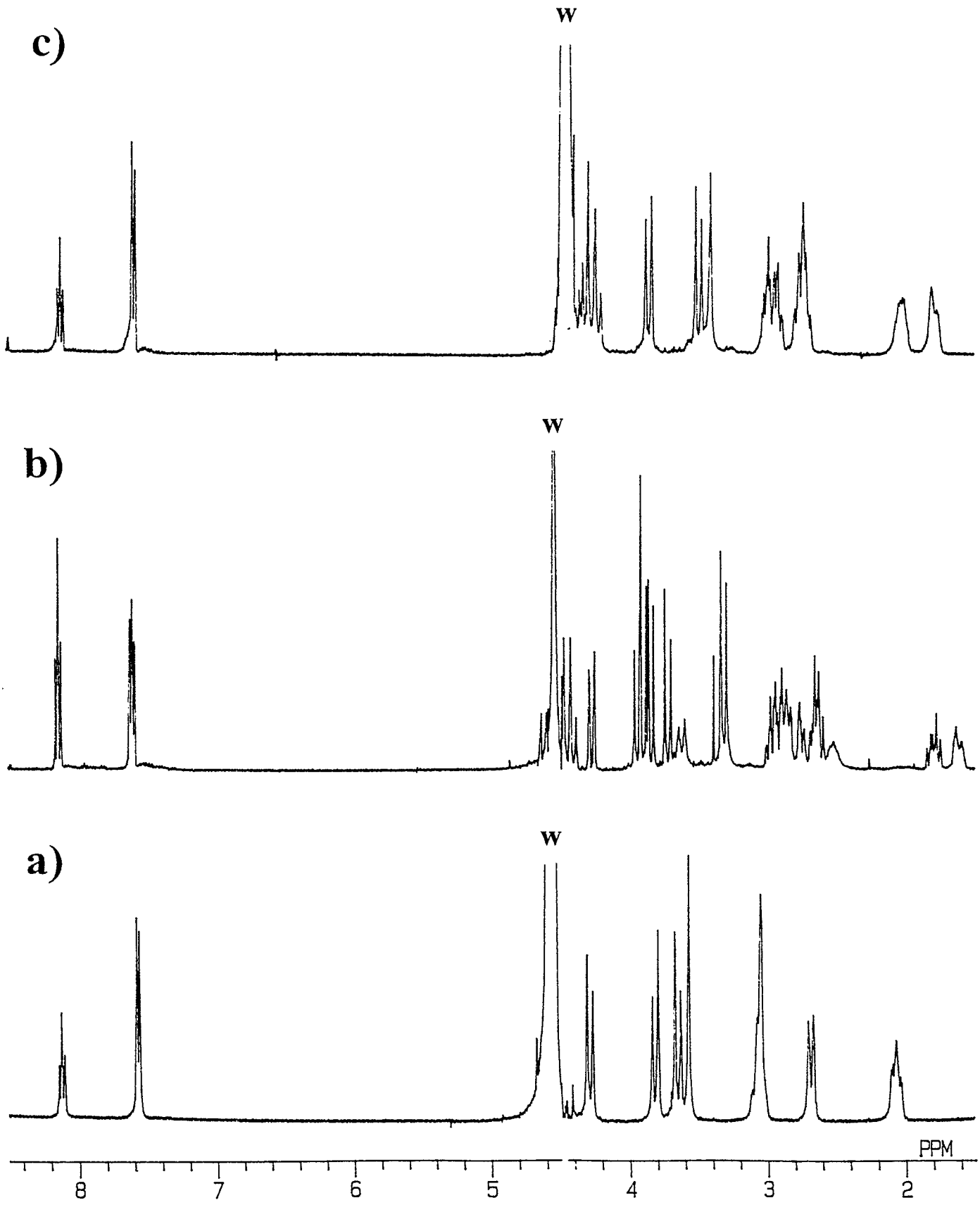

Figure 4