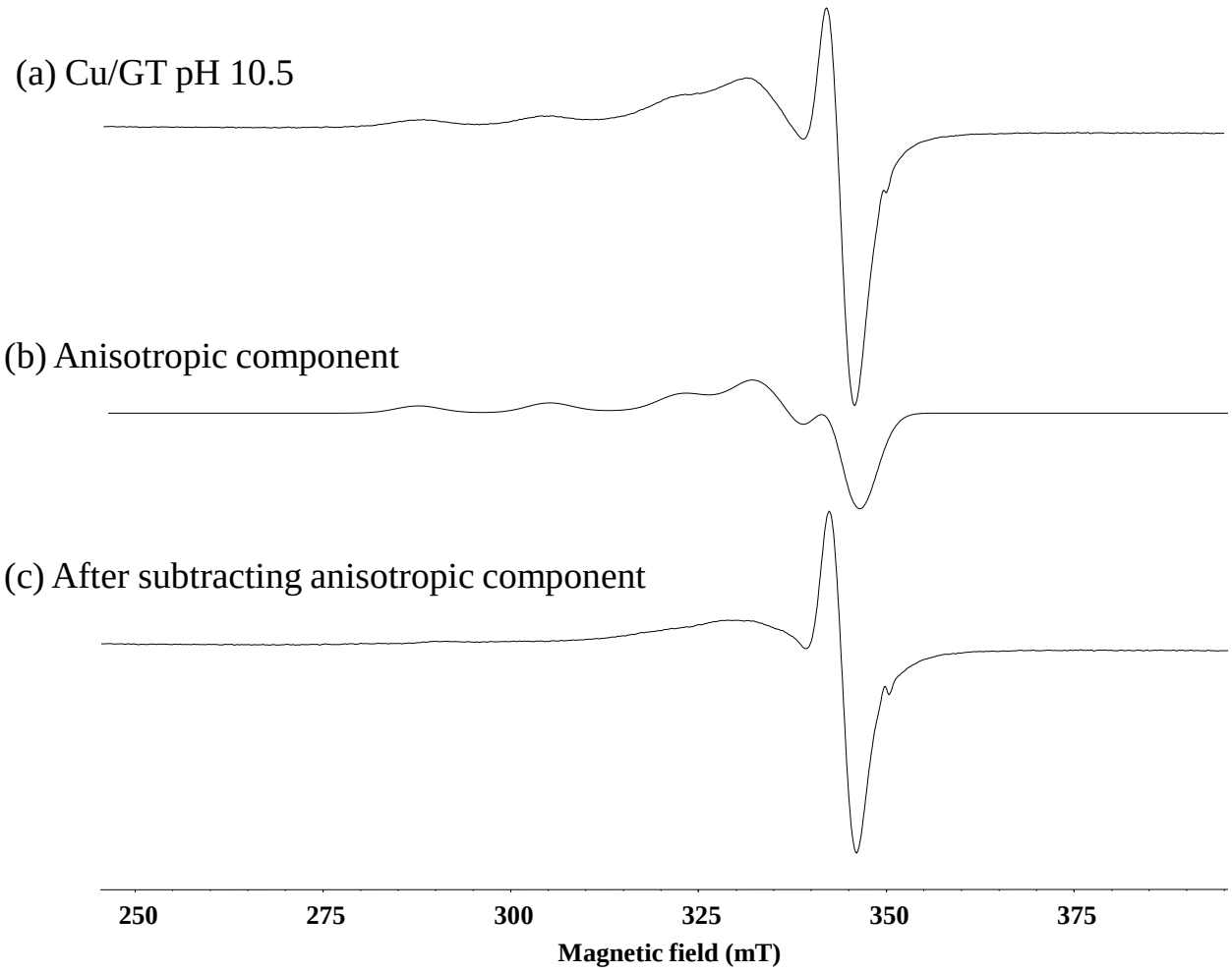

Figure S1

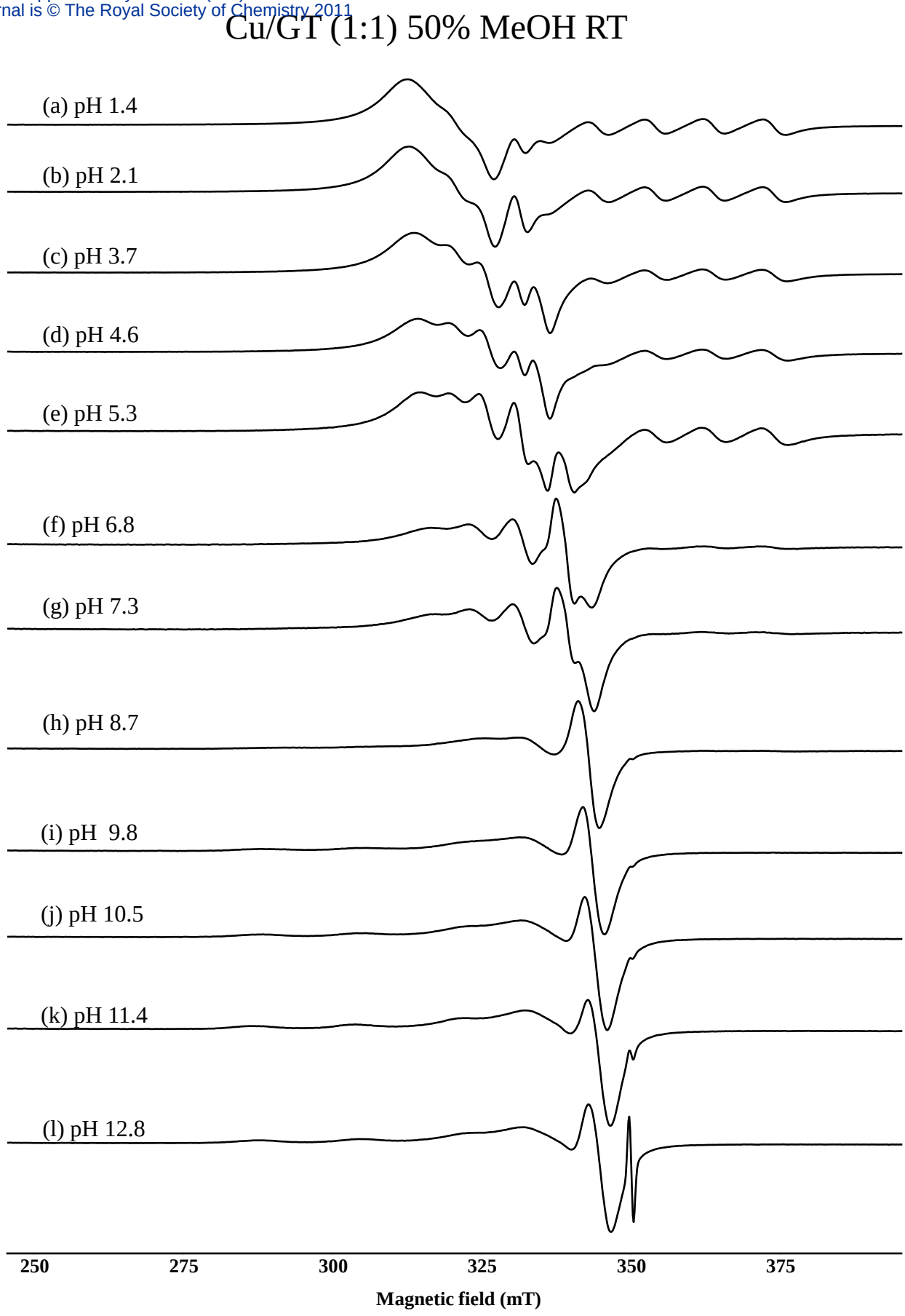

Figure S2

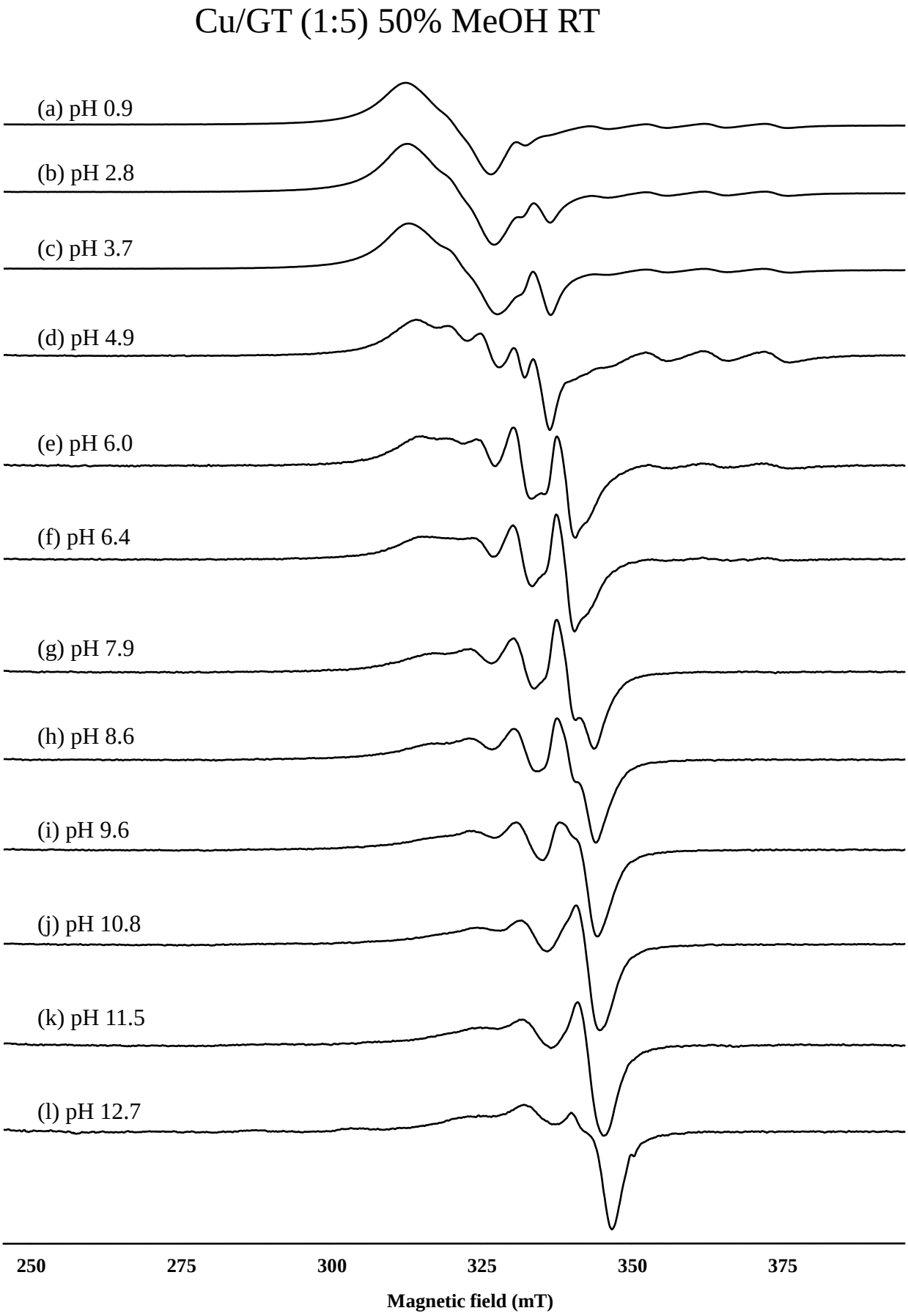

Figure S3

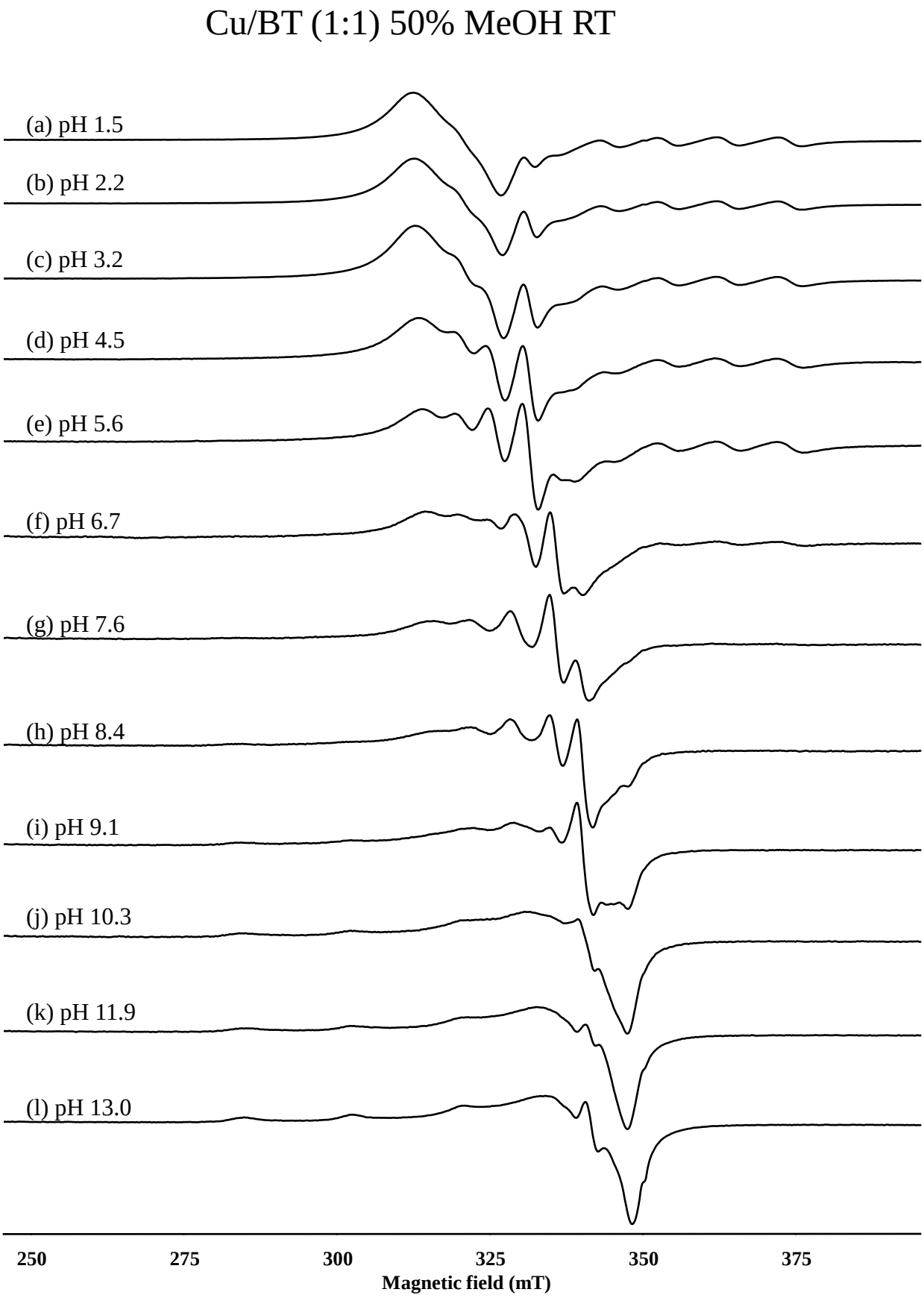

Figure S4

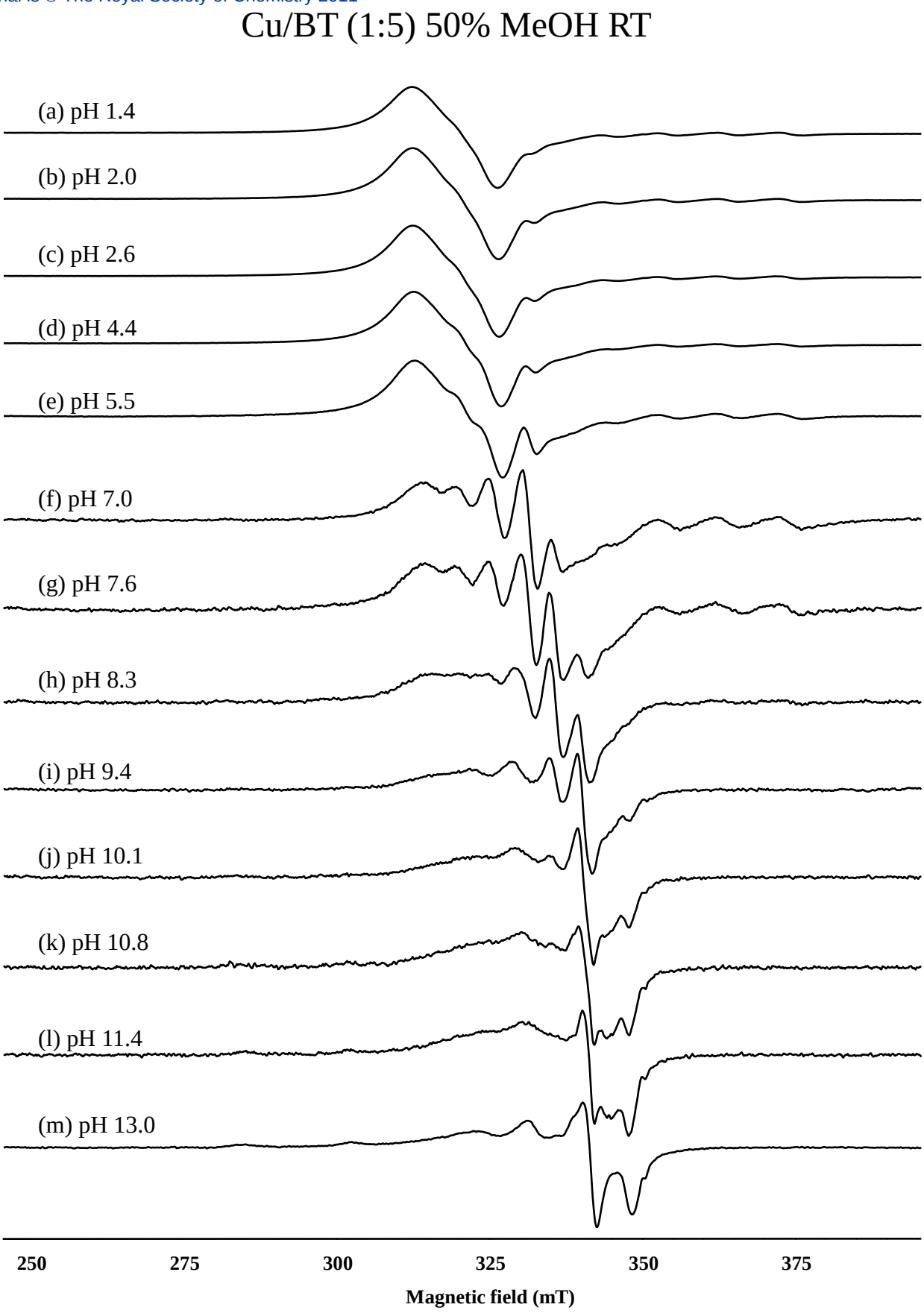

Figure S5

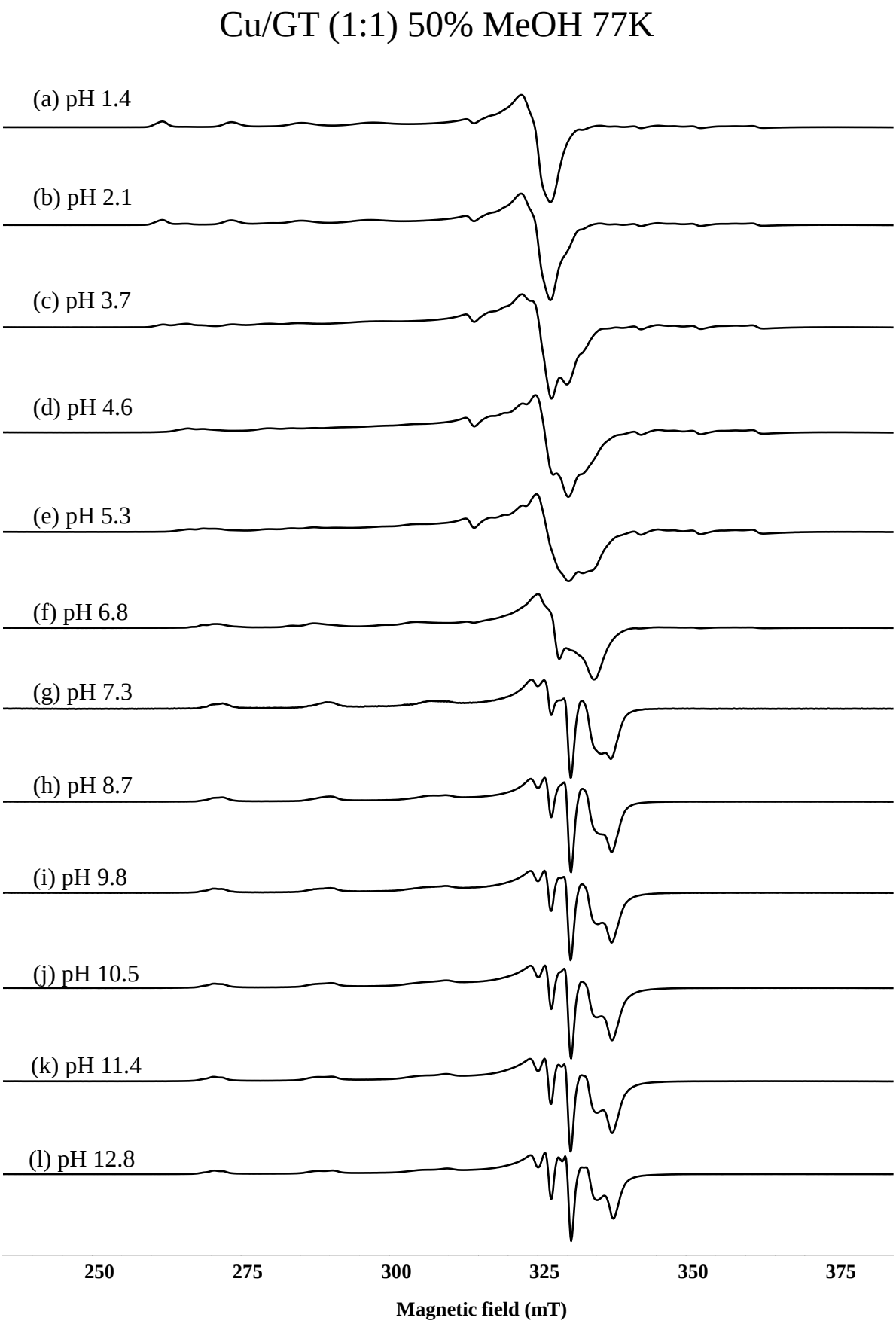

Figure S6

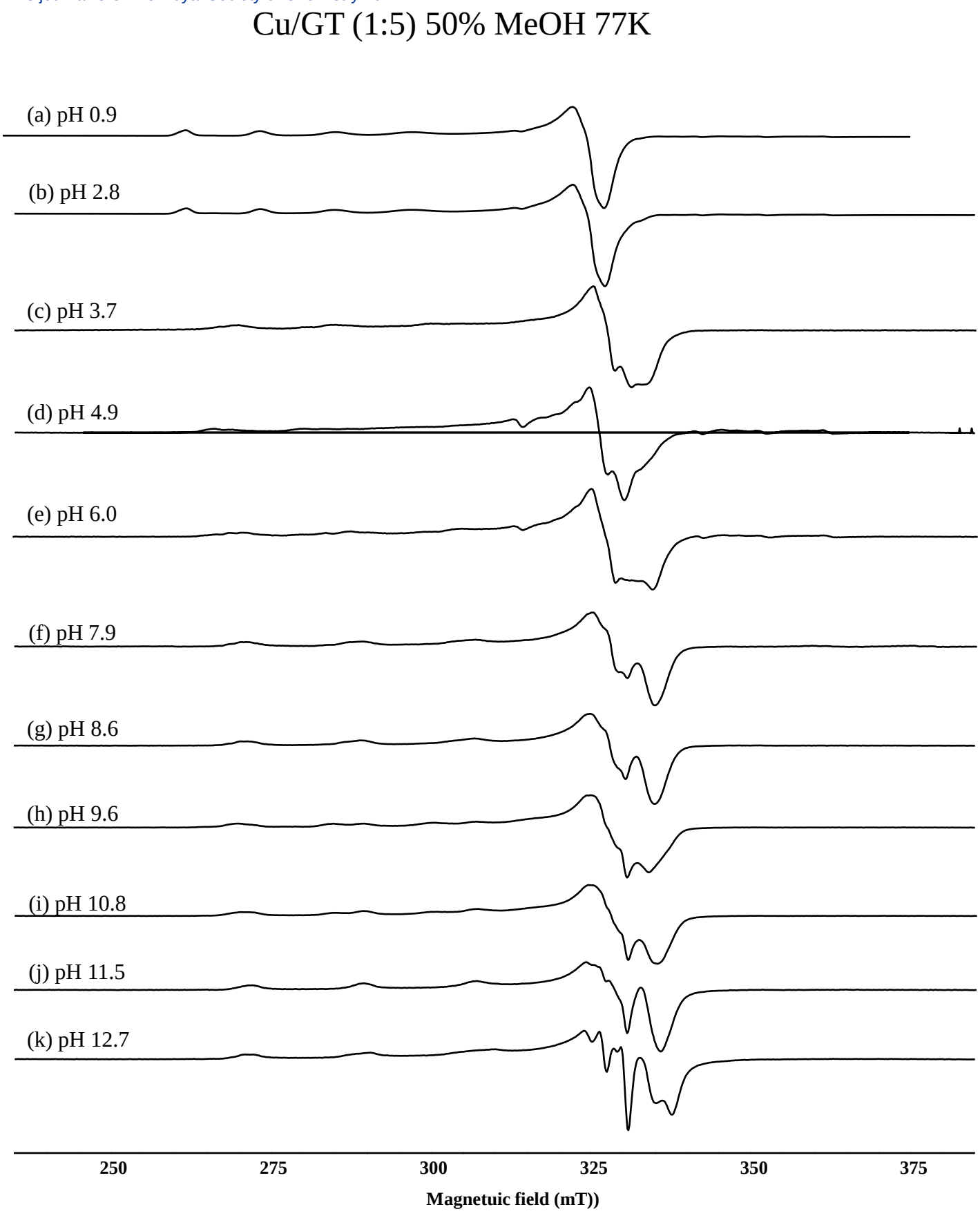

Figure S7

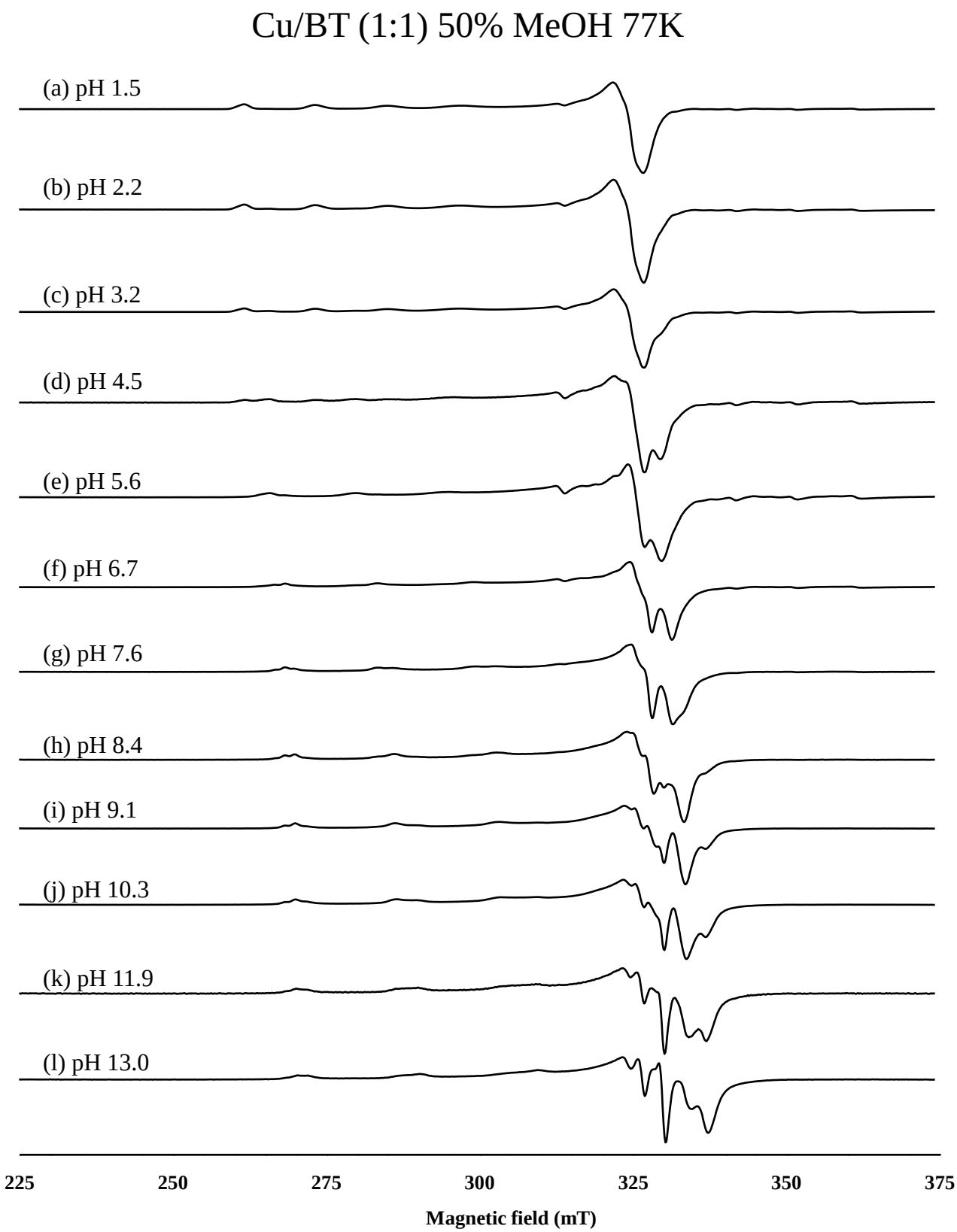

Figure S8

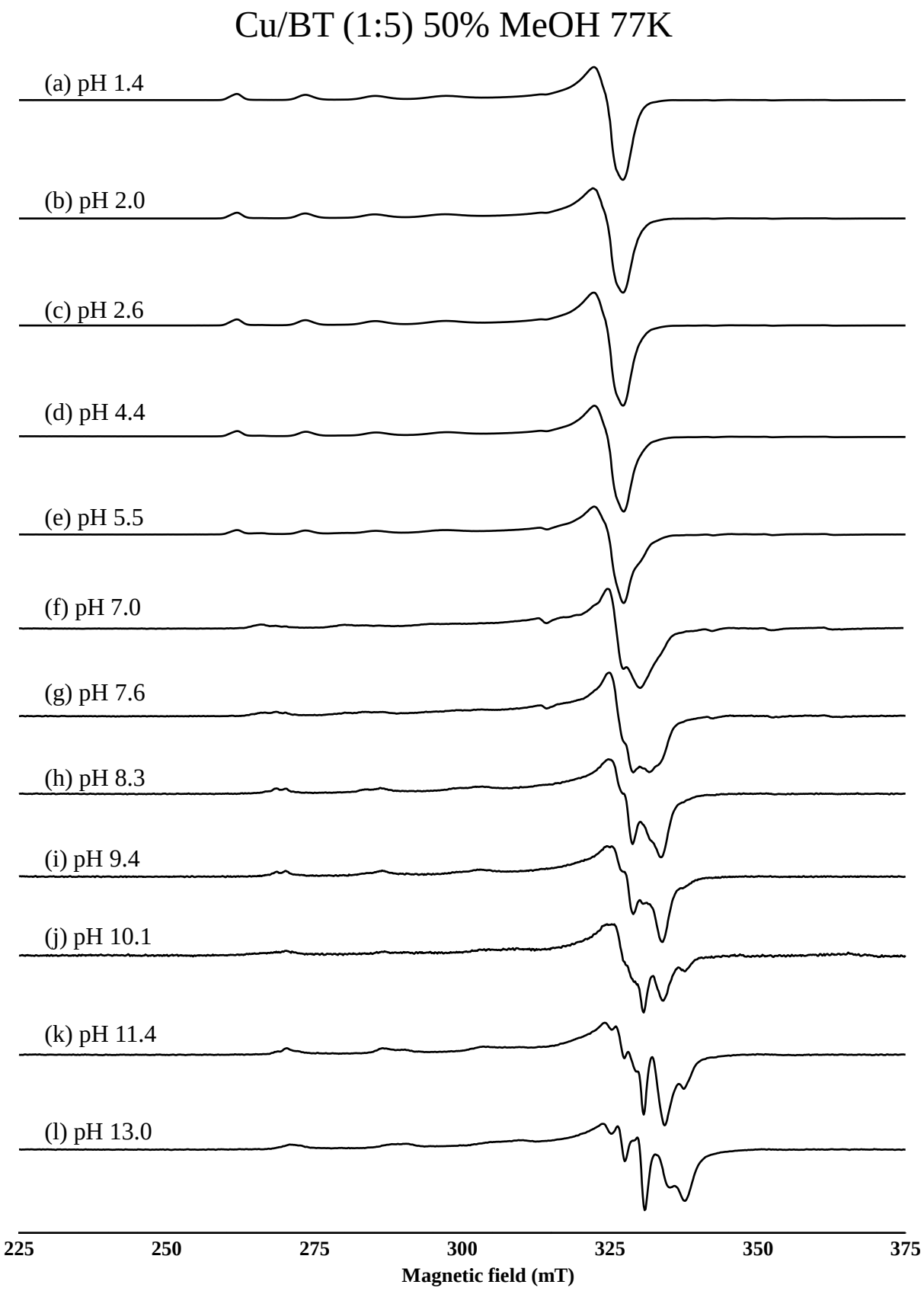

Figure S9

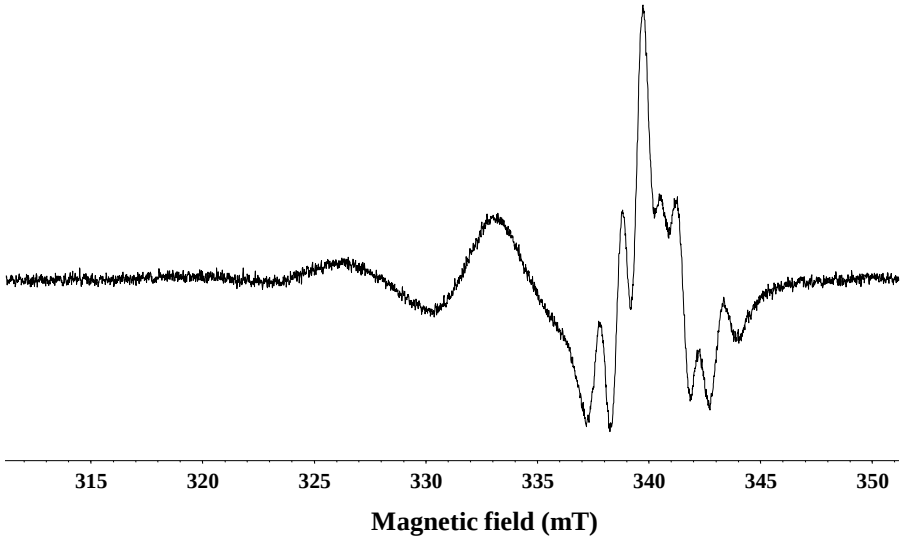

Figure S10

Electronic Supplementary Material (ESI) for Food & Function

Supplementary Figures

Figure S1. (a) Fluid solution EPR spectrum at room temperature of 5% glycerol solution of green tea containing 2 mM Cu(II) at pH 10.5, (b) simulation of the anisotropic component in (a), (c) residual spectrum after subtracting spectrum (b) from (a).

Figure S2. Dependence on pH of the fluid solution EPR spectra of 4 mM Cu(II) in aqueous green tea extract diluted 1:1 in methanol, (a) pH 1.4, (b) pH 2.1, (c) pH 3.7, (d) pH 4.6, (e) pH 5.3, (f) pH 6.8, (g) pH 7.3, (h) pH 8.7, (i) pH 9.8, (j) pH 10.5, (k) pH 11.4, (l) pH 12.8

Figure S3. Dependence on pH of the fluid solution EPR spectra of 4 mM Cu(II) in aqueous green tea extract diluted 1:5 in (1:1) aqueous methanol, (a) pH 0.9, (b) pH 2.8, (c) pH 3.7, (d) pH 4.9, (e) pH 6.0, (f) pH 6.4, (g) pH 7.9, (h) pH 8.6, (i) pH 9.65, (j) pH 10.8, (k) pH 11.5, (l) pH 12.7.

Figure S4. Dependence on pH of the fluid solution EPR spectra 4 mM Cu(II) in aqueous Pu'er tea extract diluted 1:1 in methanol, (a) pH 1.5, (b) pH 2.2, (c) pH 3.2, (d) pH 4.5, (e) pH 5.6, (f) pH 6.7, (g) pH 7.6, (h) pH 8.4, (i) pH 9.1, (j) pH 10.3, (k) pH 11.9, (l) pH 13.0.

Figure S5. Dependence on pH of the fluid solution EPR spectra of 4 mM Cu(II) in aqueous Pu'er tea extract diluted 1:5 in (1:1) aqueous methanol, (a) pH 1.4, (b) pH 2.0, (c) pH 2.6, (d) pH 4.4, (e) pH 5.5, (f) pH 7.0, (g) pH 7.6, (h) pH 8.3, (i) pH 9.4, (j) pH 10.1, (k) pH 10.8, (l) pH 11.4, (m) pH 13.0

Figure S6. Dependence on pH of the EPR spectra at 77K of 4 mM Cu(II) in aqueous green tea extract diluted 1:1 in methanol, (a) (a) pH 1.4, (b) pH 2.1, (c) pH 3.7, (d) pH 4.6, (e) pH 5.3, (f) pH 6.8, (g) pH 7.3, (h) pH 8.7, (i) pH 9.8, (j) pH 10.5, (k) pH 11.4, (l) pH 12.8

Figure S7. Dependence on pH of the EPR spectra at 77K of 4 mM Cu(II) in aqueous green tea extract diluted 1:5 in (1:1) aqueous methanol, (a) pH 0.94, (b) pH 2.80, (c) pH 3.67, (d) pH 4.92, (e) pH 6.02, (f) pH 7.87, (g) pH 8.57, (h) pH 9.55, (i) pH 10.80, (j) pH 11.51, (k) pH 12.74.

Figure S8. Dependence on pH of the EPR spectra at 77K of 4 mM Cu(II) in aqueous Pu'er tea extract diluted 1:1 in methanol, (a) pH 1.5, (b) pH 2.2, (c) pH 3.2, (d) pH 4.5, (e) pH 5.6, (f) pH 6.7, (g) pH 7.6, (h) pH 8.4, (i) pH 9.1, (j) pH 10.3, (k) pH 11.9, (l) pH 13.0.

Figure S9. Dependence on pH of the EPR spectra at 77K of 4 mM Cu(II) in aqueous Pu'er tea extract diluted 1:5 in (1:1) aqueous methanol, (a) pH 1.4, (b) pH 2.0, (c) pH 2.6, (d) pH 4.4, (e) pH 5.5, (f) pH 7.0, (g) pH 7.6, (h) pH 8.3, (i) pH 9.4, (j) pH 10.1, (k) pH 11.4, (m) pH 13.0

Figure S10. 2nd derivative recording of the ^{63}Cu *bis* complex with theanine in NaOD at pH 10