Chemical shifts (δ) and ^{1}HNMR peak splitting of 16-2-16 series of gemini surfactants with various counterions:

16-2-16·2X (X^- = Br^- or Cl^-). ^{1}HNMR (300 MHz, $CDCl_3$ 25 °C, δ ppm):

7.24 (1H, s); 4.75 (4H, s); 3.69 (4H, s); 3.49 (12H, s); 1.78 (4H, s); 1.35 (4H, s); 1.23 (48H, s); 0.85 (6H, t).

16-2-16·2AMP. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

8.36 (2H, s); 8.07 (2H, s); 5.98 (2H, s); 4.57 (1H, s); 4.38 (2H, t); 4.22 (2H, s); 4.03 (4H, s); 3.81 (4H, s); 3.35 (4H, s); 3.17 (12H, s); 1.61 (4H, s); 1.19 (4H, s); 1.05 (48H, s); 0.67 (6H, t).

16-2-16·2UMP. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

7.92 (2H, d); 5.91 (1H, m); 4.67 (1H, s); 4.29 (4H, s); 4.17 (2H, s); 4.05 (3H, s); 3.87 (4H, s); 3.46 (4H, s); 3.23 (12H, s); 1.75 (4H, s); 1.34 (4H, s); 1.19 (48H, s); 0.79 (6H, t).

16-2-16·2CMP. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

7.99 (2H, d); 6.08 (2H, d); 5.90 (2H, s); 4.67 (4H, s); 4.25 (1H, s); 4.09 (2H, m); 4.02 (4H, s); 3.39 (4H, s); 3.21 (12H, s); 1.70 (4H, s); 1.32 (4H, s); 1.22 (48 H, s); 0.82 (6H, t).

16-2-16·2GMP. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

7.99 (2H, d); 5.79 (2H, m); 4.64 (2H, s); 4.38 (2H, m); 4.16 (1H, m); 3.98 (4H, s); 3.81 (4H, d); 3.36 (4H, s); 3.15 (12H, s); 1.63 (4H, s); 1.14 (4H, s); 1.11 (48H, s); 0.72 (6H, t).

16-2-16·Tartrate. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

4.20 (4H, s); 3.84 (2H, s); 3.39 (4H, s); 3.18 (12H, s); 3.18 (2H, s); 1.68 (4H, s); 1.28 (4H, s); 1.23 (48H, s); 0.81 (6H, t).

16-2-16·Malate. ^{1}HNMR (300 MHz, D_2O, 25 °C, δ ppm):

4.11 (1H, m); 3.81 (4H, s); 3.35 (4H, s); 3.14 (12H, s); 2.50 (1H, d); 2.26 (2H, m); 1.65 (4H, s); 1.27 (4H, s); 1.19 (48H, s); 0.77 (6H, t).

[1]HNMR Spectra of 16-2-16 series of gemini surfactants with various counterions:

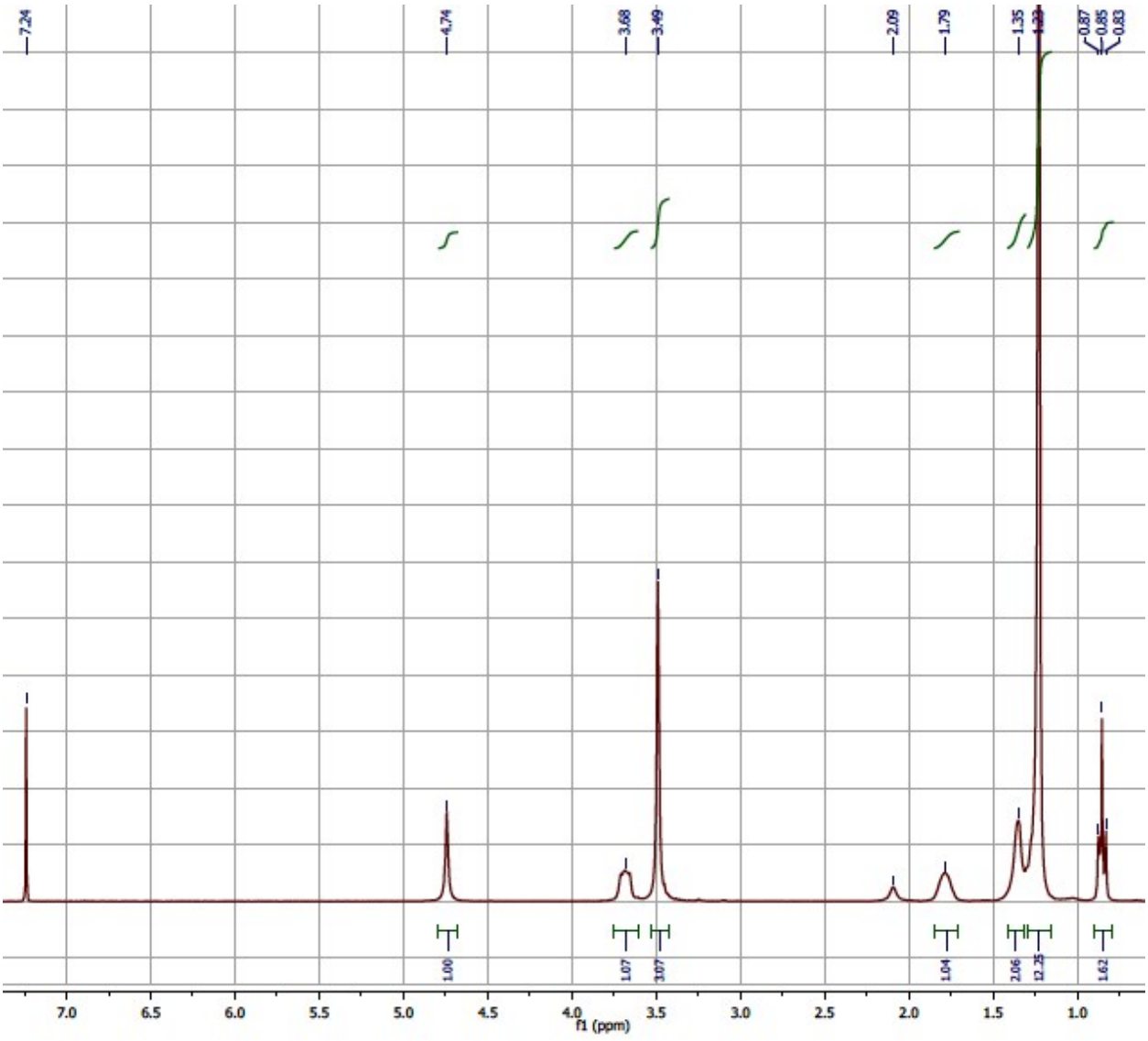


Figure S-1: [1]HNMR spectra of 16-2-16·2Br

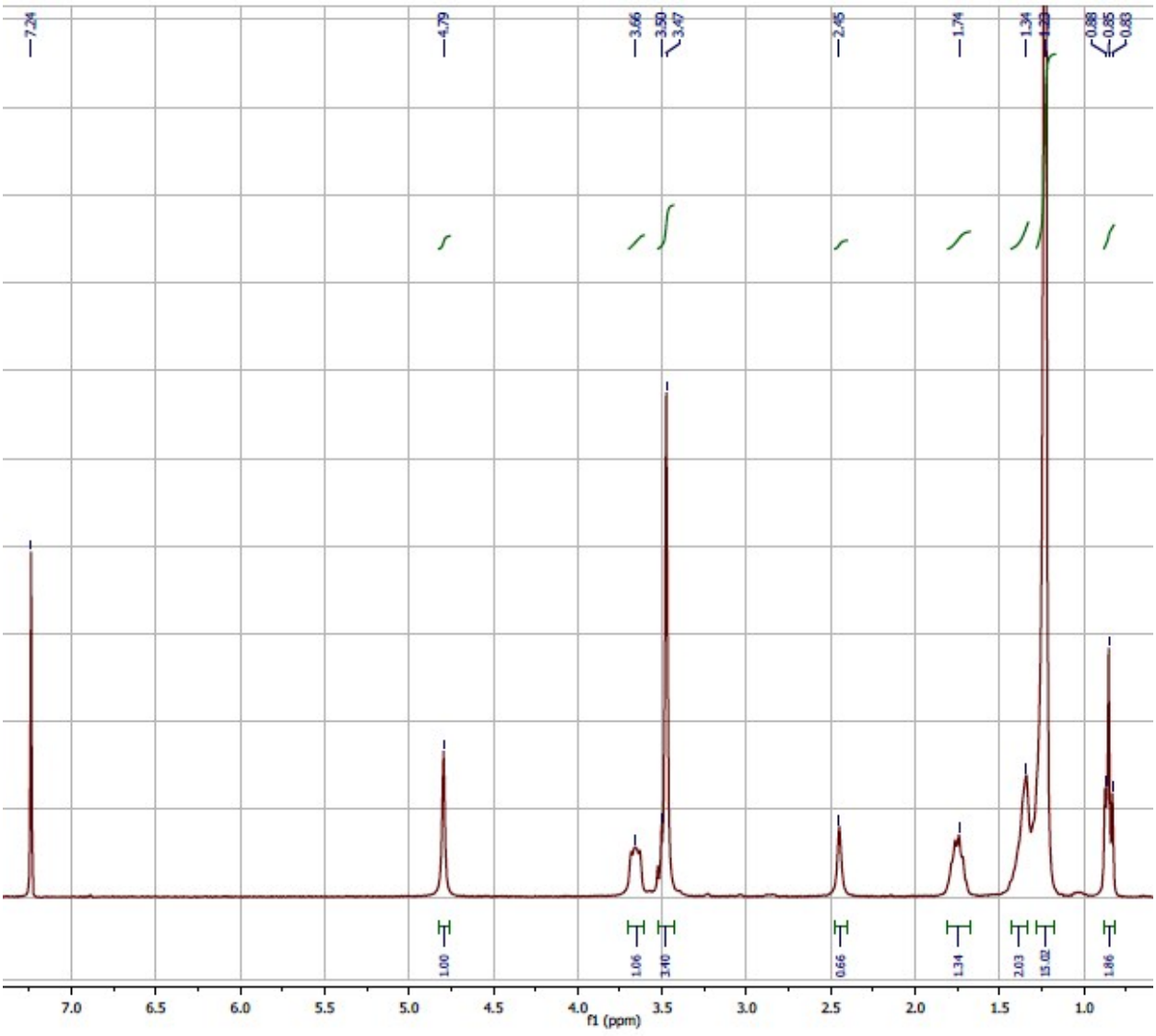


Figure S-2: ^{1}HNMR spectra of 16-2-16·2Cl

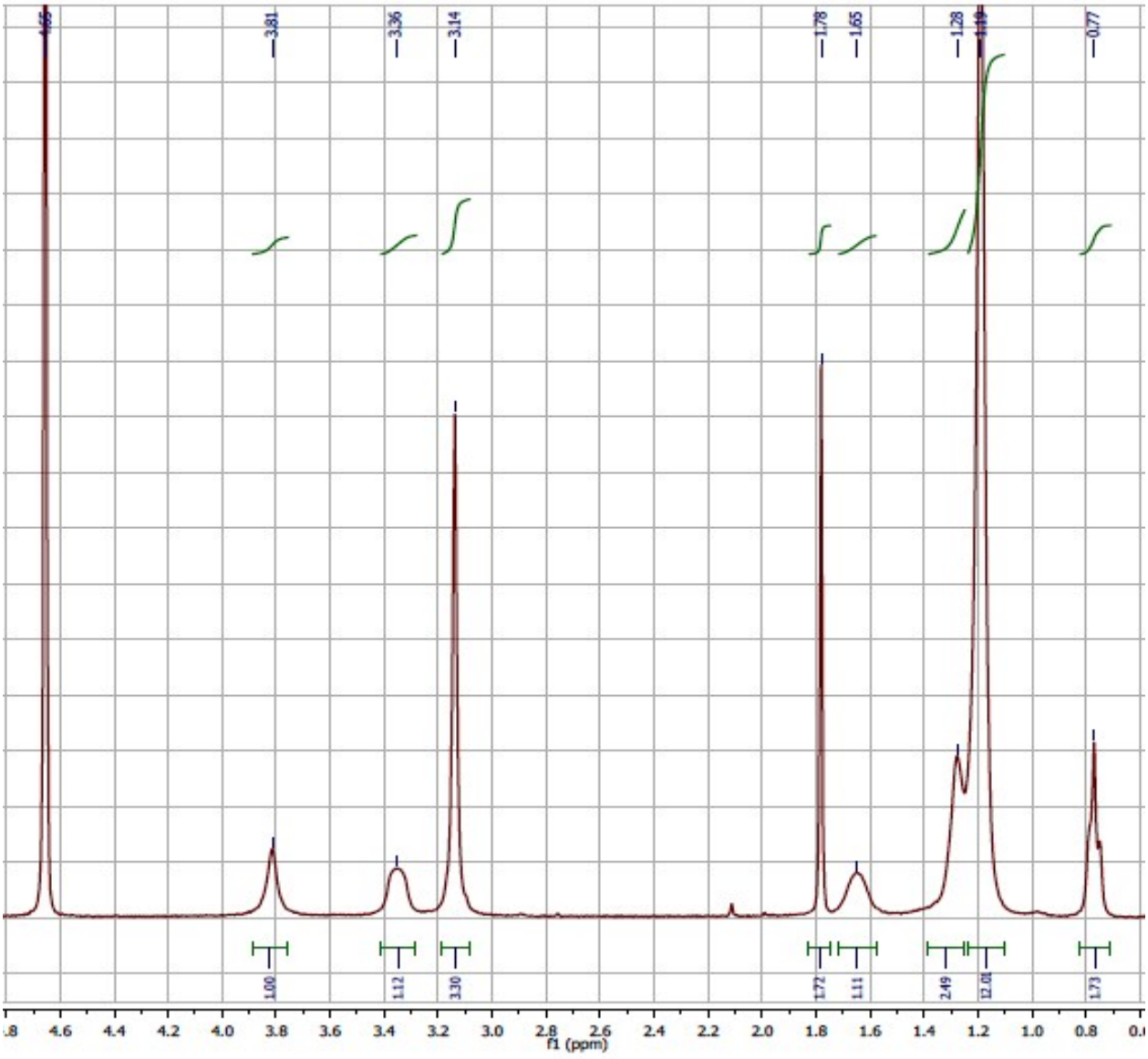


Figure S-3: [1]HNMR spectra of 16-2-16·2Ac

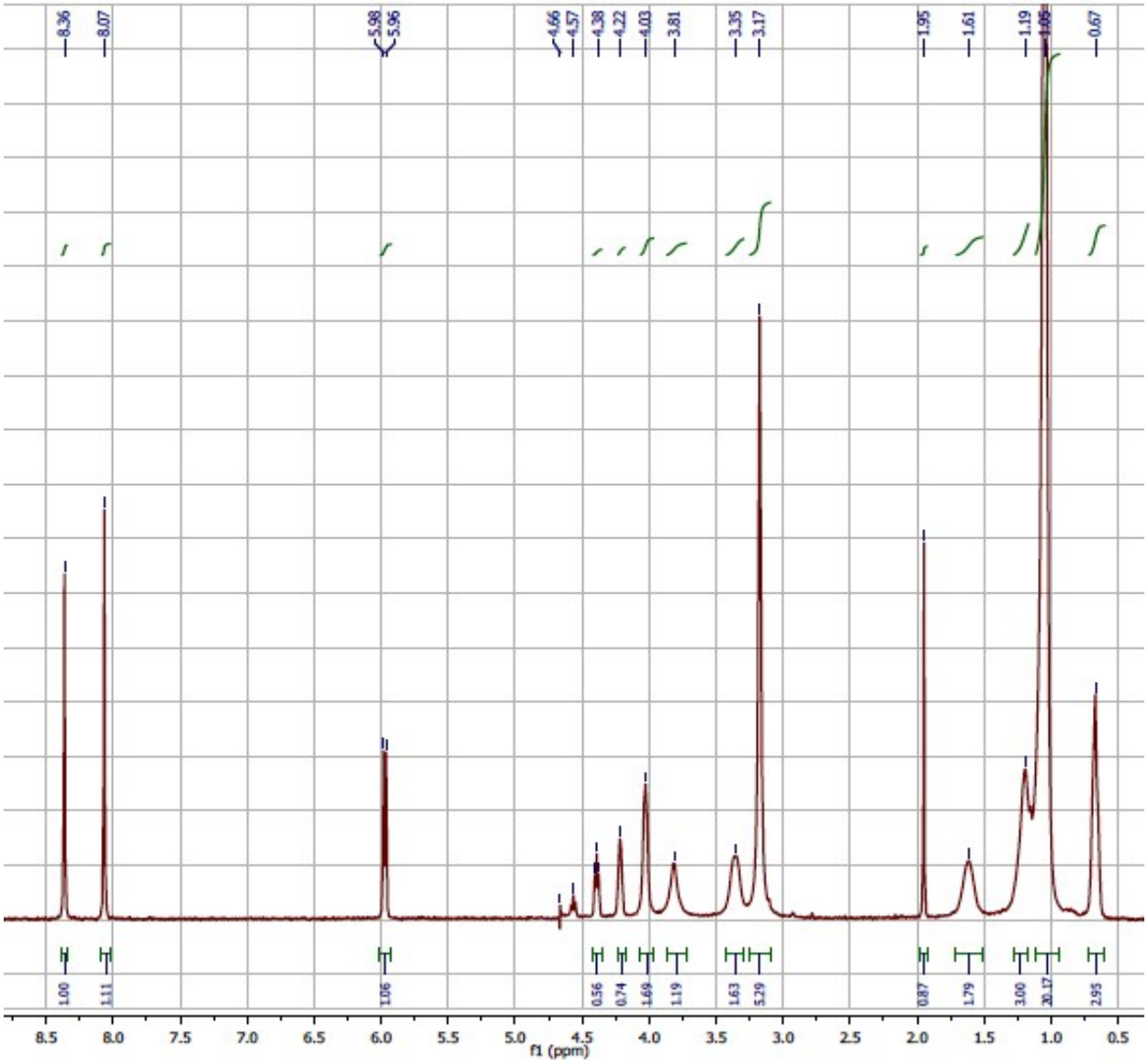


Figure S-4: [1]HNMR spectra of 16-2-16·2AMP

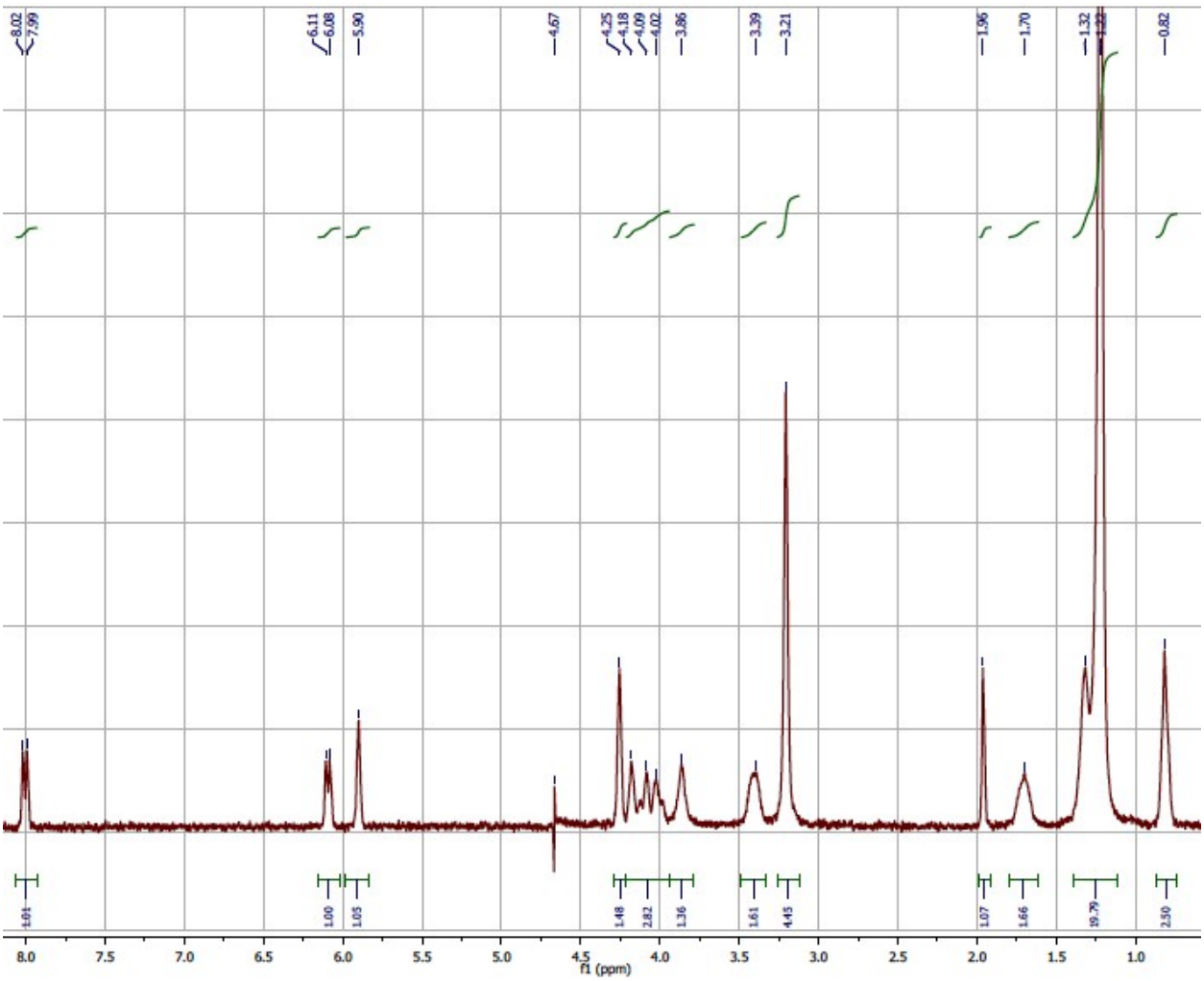


Figure S-5: ^{1}HNMR spectra of 16-2-16·2CMP

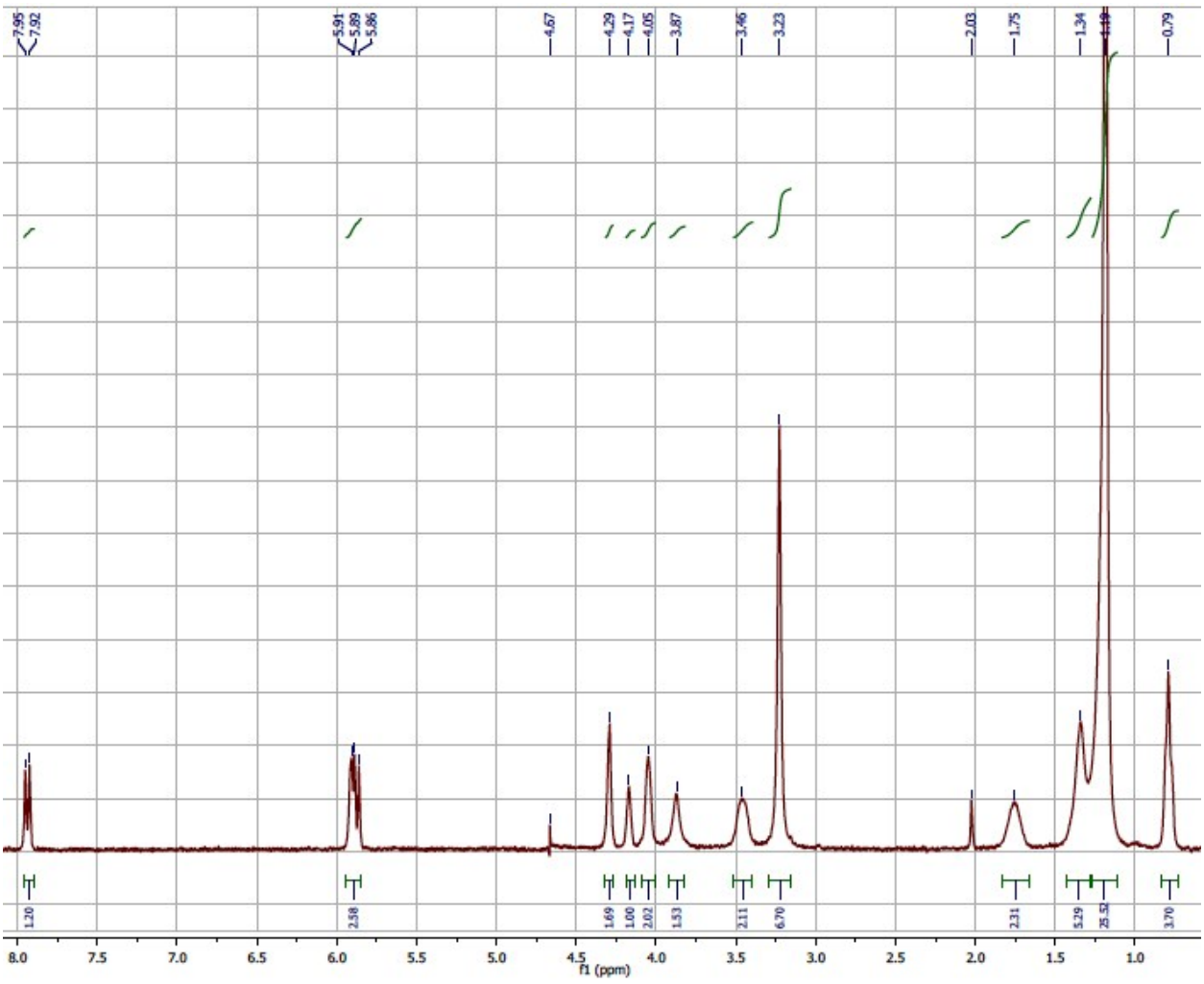


Figure S-6: ^{1}HNMR spectra of 16-2-16·2UMP

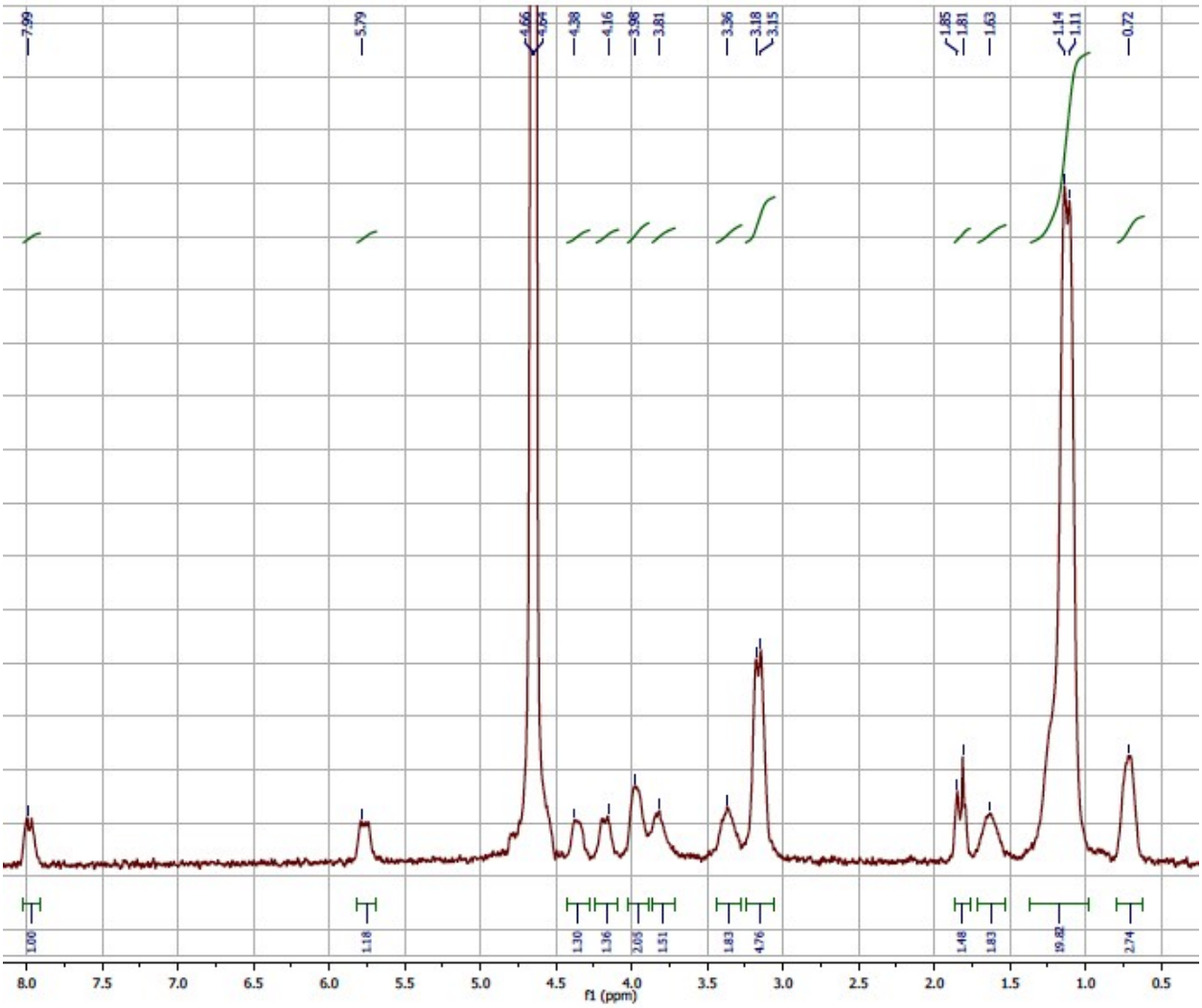


Figure S-7: [1]HNMR spectra of 16-2-16·2GMP

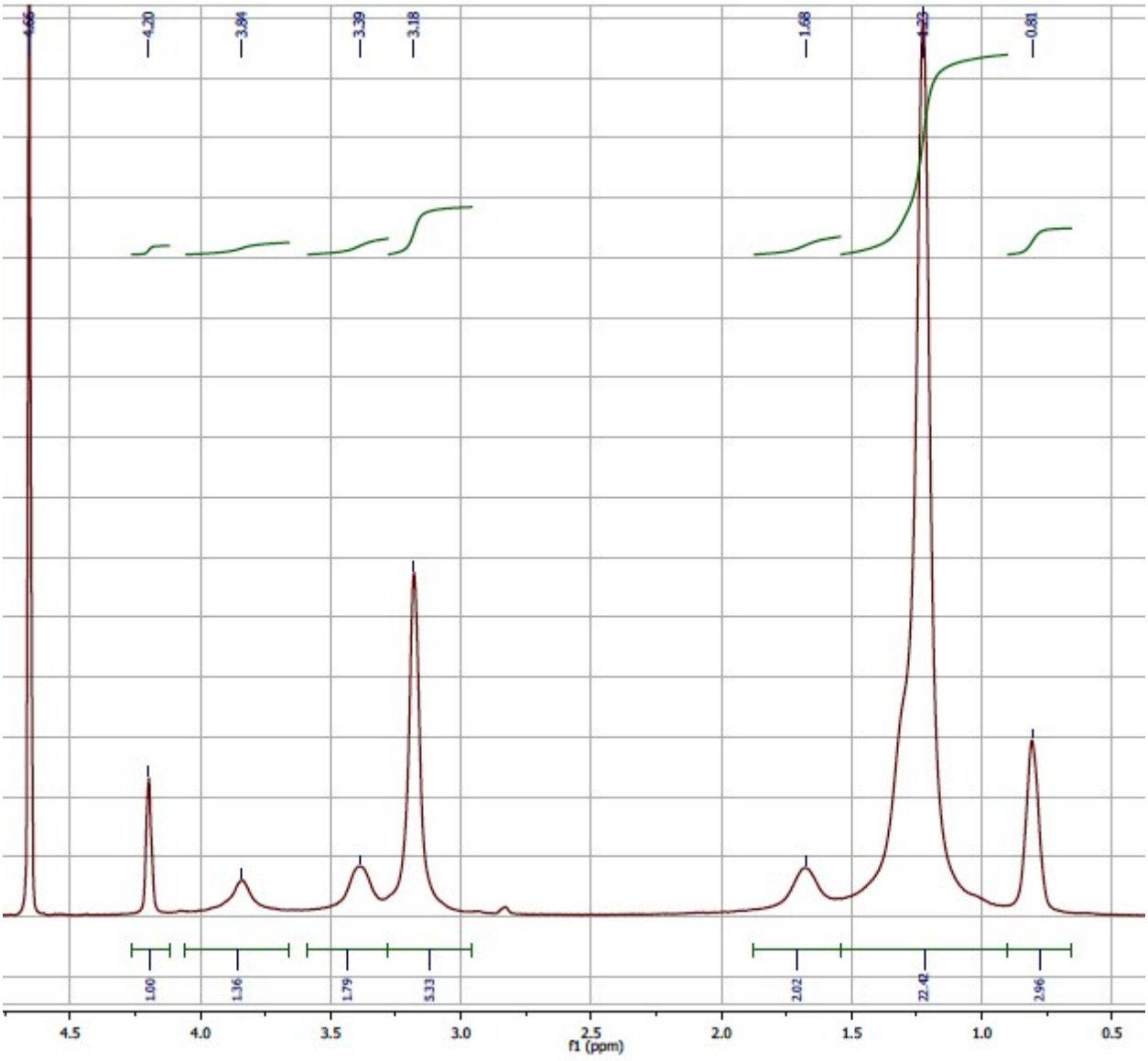


Figure S-8: [1]HNMR spectra of 16-2-16·Tartrate

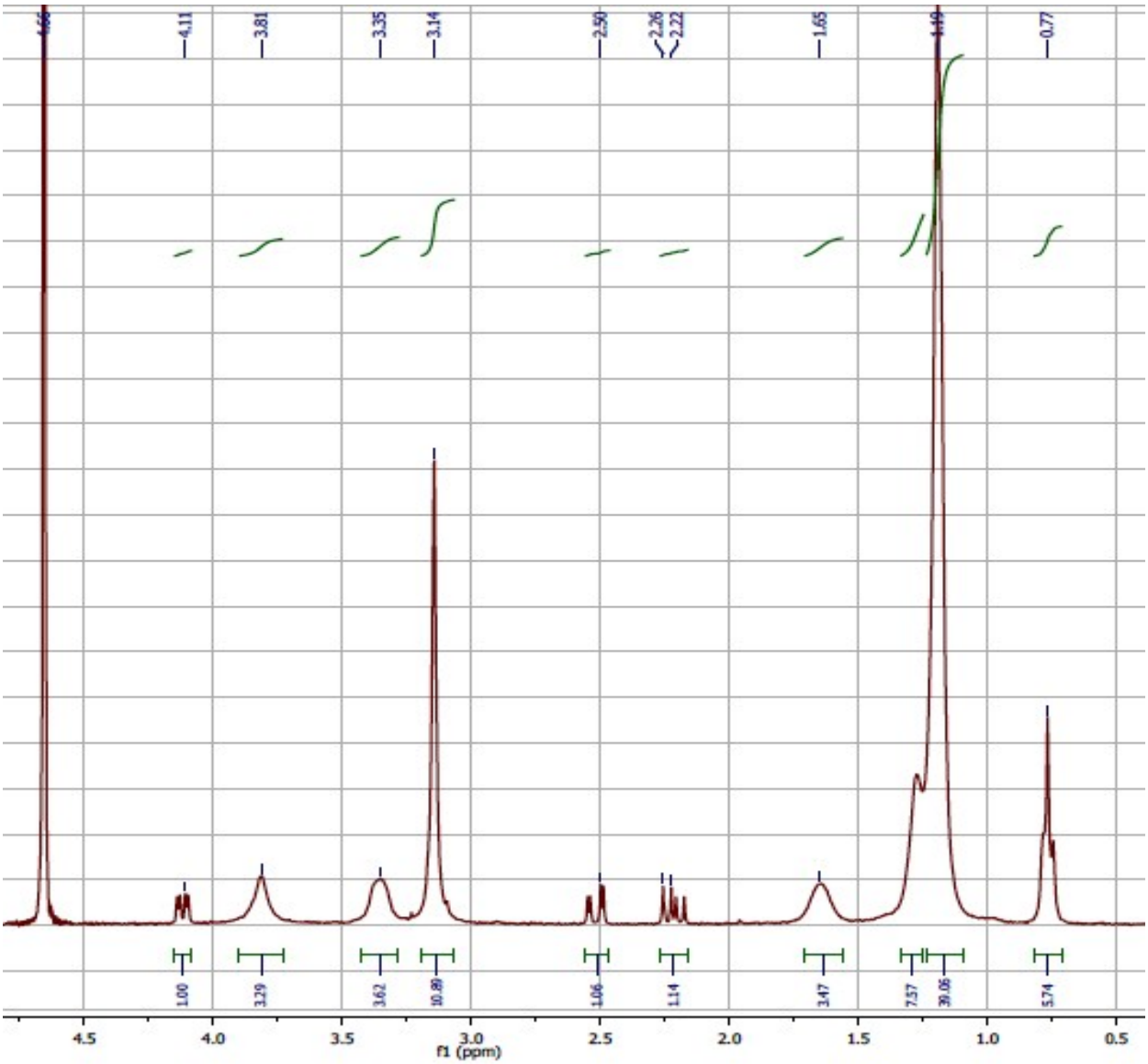


Figure S-9: [1]HNMR spectra of 16-2-16·Malate

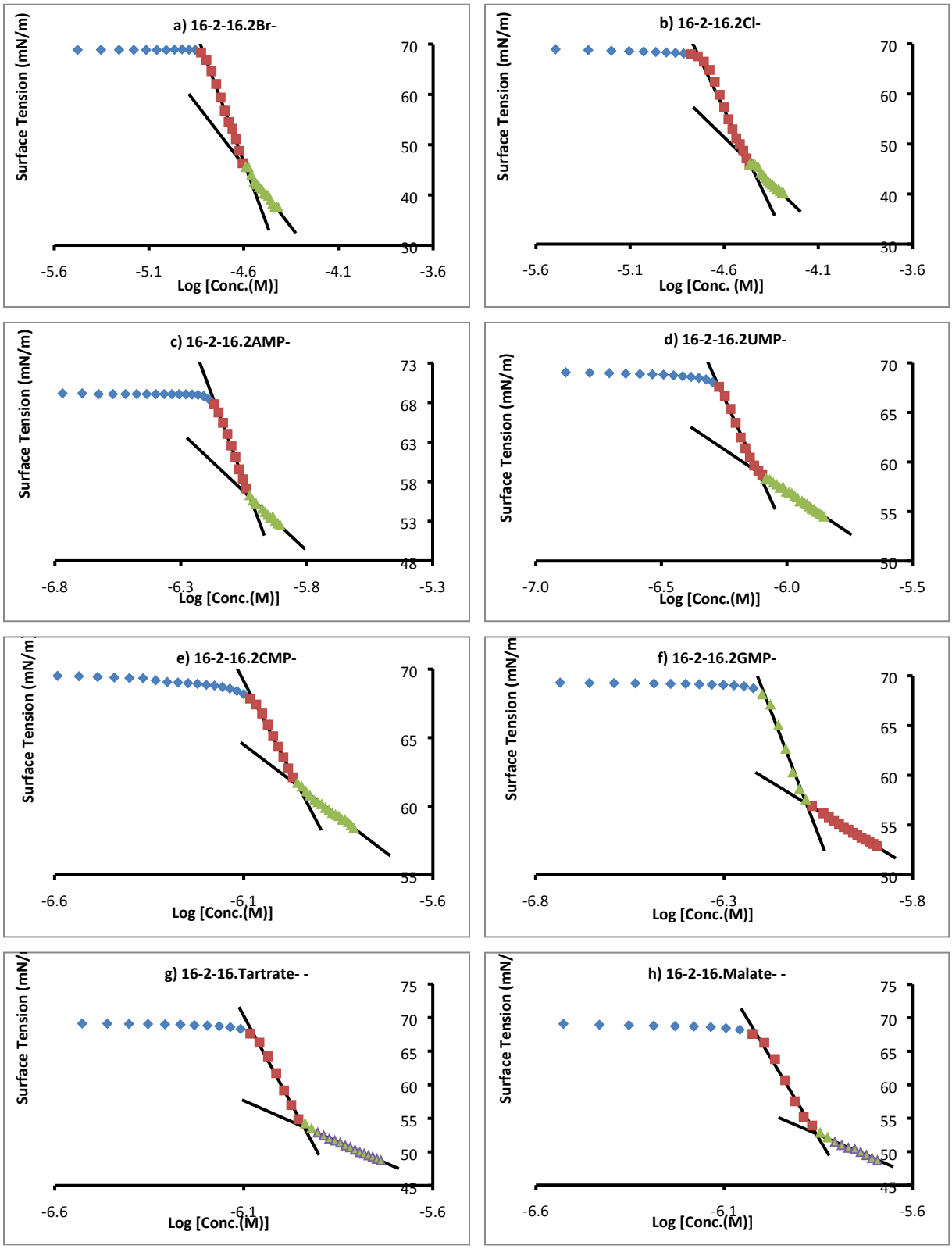
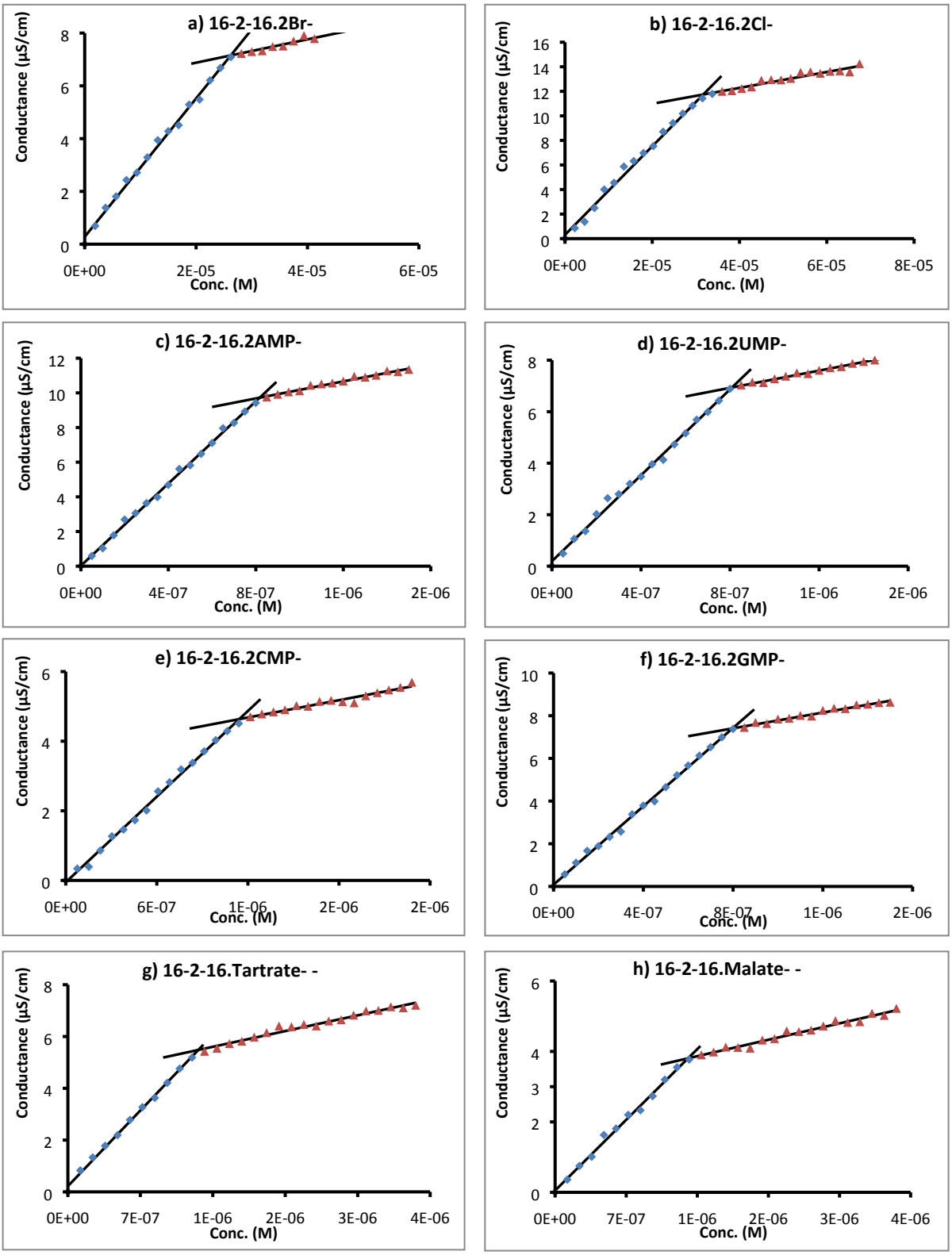


Figure S-10: Surface tension vs Log (Conc.) plots of 16-2-16 series of GSs


a) 16-2-16.2Br-
Conductance (µS/cm)
Conc. (M)
b) 16-2-16.2Cl-
Conductance (µS/cm)
Conc. (M)
c) 16-2-16.2AMP-
Conductance (µS/cm)
Conc. (M)
d) 16-2-16.2UMP-
Conductance (µS/cm)
Conc. (M)
e) 16-2-16.2CMP-
Conductance (µS/cm)
Conc. (M)
f) 16-2-16.2GMP-
Conductance (µS/cm)
Conc. (M)
g) 16-2-16.Tartrate- -
Conductance (µS/cm)
Conc. (M)
h) 16-2-16.Malate- -
Conductance (µS/cm)
Conc. (M)