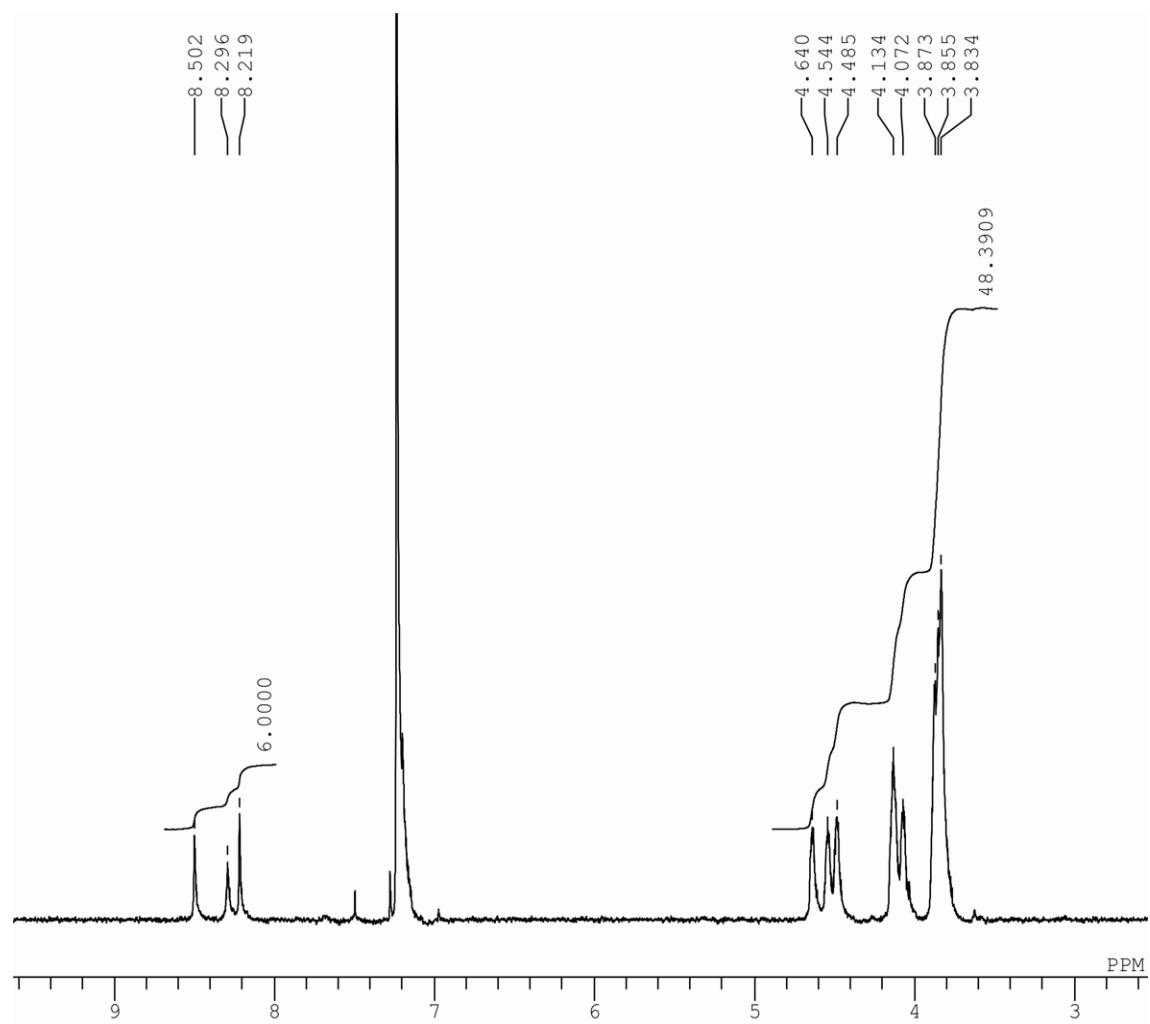
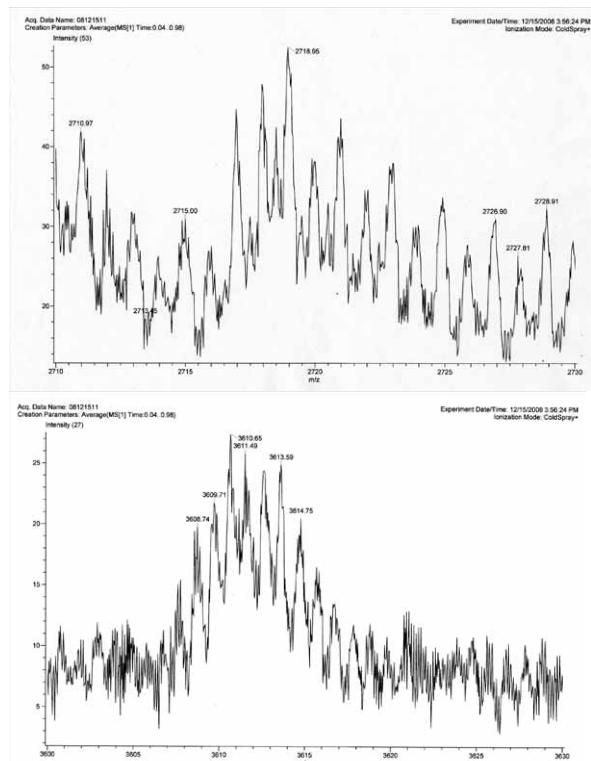
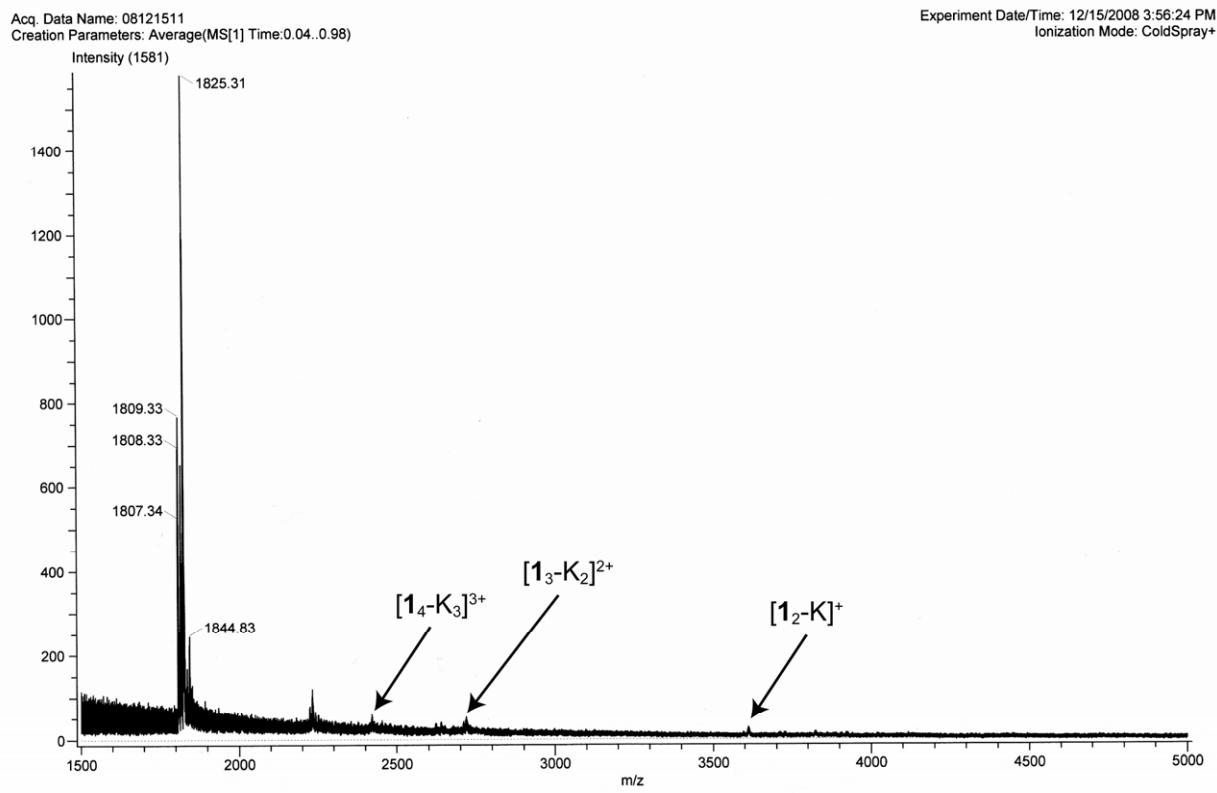


Supporting Information

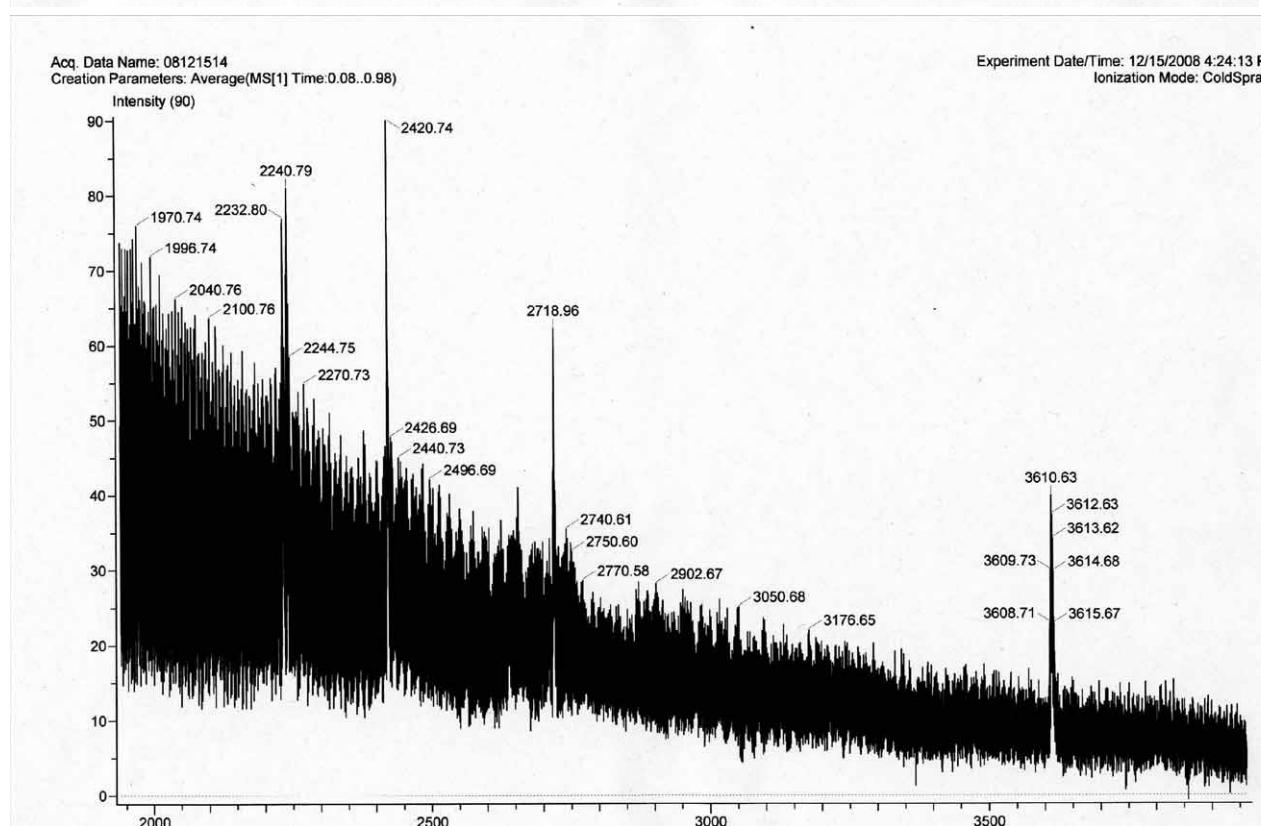
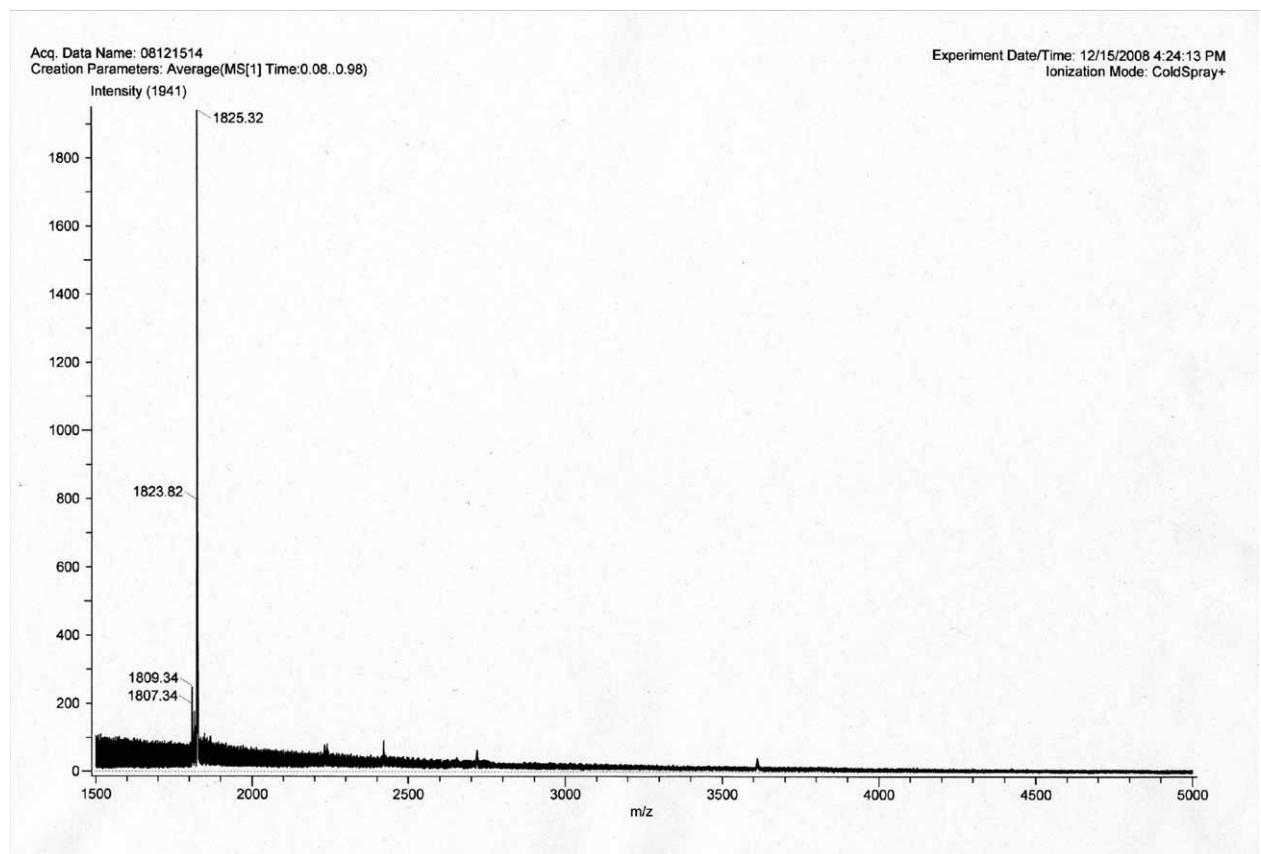
^1H NMR spectrum of **1**.



CSI-TOF mass spectra of **1** in CHCl₃/MeOH = 1:1 in the presence of K⁺ at [K⁺]/[**1**] = ca. 1.

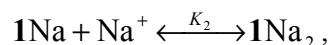
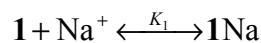


CSI-TOF mass spectra of **1** in CHCl₃/MeOH = 1:1 in the presence of K⁺ at [K⁺]/[**1**] = ca. 100.



Determination of K_1 and K_2 .

Define the step complex formation constants, K_1 and K_2 , as



$$K_1 = \frac{[\mathbf{1}\text{Na}]}{[\mathbf{1}][\text{Na}]}, \quad K_2 = \frac{[\mathbf{1}\text{Na}_2]}{[\mathbf{1}\text{Na}][\text{Na}]}.$$

Therefore,

$$[\mathbf{1}\text{Na}] = K_1 [\mathbf{1}][\text{Na}], \quad [\mathbf{1}\text{Na}_2] = K_1 K_2 [\mathbf{1}][\text{Na}]^2.$$

The initial molar concentration of **1** (or total concentration of **1**) can be defined as

$$S = [\mathbf{1}] + [\mathbf{1}\text{Na}] + [\mathbf{1}\text{Na}_2] = [\mathbf{1}] + K_1 [\mathbf{1}][\text{Na}] + K_1 K_2 [\mathbf{1}][\text{Na}]^2 \\ = (1 + K_1 [\text{Na}] + K_1 K_2 [\text{Na}]^2) [\mathbf{1}]$$

The molar fraction of $[\mathbf{1}\text{Na}_2]$ can be written as

$$f = \frac{[\mathbf{1}\text{Na}_2]}{S} = \frac{K_1 K_2 [\text{Na}]^2}{1 + K_1 [\text{Na}] + K_1 K_2 [\text{Na}]^2}.$$

A curve fitting of the experimentally obtained relationship between f and $[\text{Na}]$ (Fig. S1, square plots) by using the above formula (red curve) gave two undetermined coefficients, K_1 and K_2 . Accordingly, $\log K_1$ and $\log K_2$ are estimated to be 5.39 and -1.00, respectively.

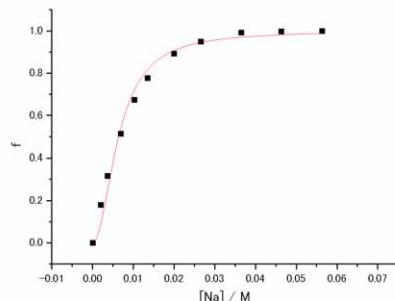


Figure S1 Plot of molar fraction of **1** against $[\text{Na}]$. Result of the curve fitting procedure is depicted by the red curve.