

Selected Overtone Mobility Spectrometry (SOMS)

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Abstract

Resolving powers of peaks are listed for the desired overtone and equivalent selected overtone from Figures 4 and 5.

	OMS ($\mu = 1$)	SOMS ($\mu = 1.125$)	SOMS ($\mu = 2$)
$m = 1$	21	23	40
$m = 3$	62	65	94
$m = 5$	85	84	N/A

Table S-1: Resolving Powers of peaks from OMS and SOMS simulations in Figure 4.

Number of Alanines	Frequency (Hz)	Resolving Power	
		OMS	SOMS
3	12200	54	55
4	10500	53	53
5	9400	51	50
6	8500	53	50
7	7700	52	57
8	6900	53	59
9	6400	52	52
10	6100	52	47
11	5600	51	52
12	5300	50	50
13	5000	51	51
14	4800	53	52
15	4600	N/A	53
16	4400	N/A	51
17	4200	N/A	55
18	4100	N/A	52
19	3900	N/A	52

Table S-2: Resolving Powers of peaks corresponding to $m = 3$ overtones and selected overtones in Figure 5.