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		Characteristic ¹ H NMR data in D ₂ O						[α] ²⁰ _D		FAB HRMS	
	Yield	OCH ₃		3 eq. H		ε-CH ₂	3 ax. H	[°]	Formula	Calc. M	Found [M+H ⁺]
	[%]	δ [ppm]	# of H	δ [ppm]	# of H	δ [ppm]	δ [ppm]				
Monomer	62	3.08	3	2.19	1	2.14	1.45	-14.8	C ₁₆ H ₃₁ N ₃ O ₈	393.21110	394.2181
Dimer	47	3.12	3	2.26	1	2.15	1.52	-25.6	C ₂₆ H ₄₈ N ₄ O ₁₅	656.31159	657.3163
		3.08	3	2.22	1						
Trimer	44	3.12	6	2.30	1	2.15	1.55	-43.8	C ₃₆ H ₆₅ N ₅ O ₂₂	919.41208	920.4214
		3.09	3	2.27	1						
				2.25	1						
Tetramer	52	3.12	3	2.30	1	2.15	1.55	-66.6	C ₄₆ H ₈₂ N ₆ O ₂₉	1182.51257	1183.5172
		3.11	6	2.28	1						
		3.09	3	2.25	1						
				2.22	1						
Pentamer	55	3.12	12	2.29	4	2.15	1.55	-25.0	C ₅₆ H ₉₉ N ₇ O ₃₆	1445.61306	1446.6168
		3.08	3	2.25	1						
Hexamer	47	3.12	15	2.25	5	2.17	1.57	-26.2	C ₆₆ H ₁₁₆ N ₈ O ₄₃	1708.71355	1709.7306
		3.08	3	2.22	1						
Heptamer	43	3.12	3	2.30	6	2.17	1.57	-33.0	C ₇₆ H ₁₃₃ N ₉ O ₅₀	1971.81404	1972.8317
		3.12	15	2.28	1						
		3.08	3								
Octamer	54	3.12	21	2.30	7	2.16	1.57	-28.1	C ₈₆ H ₁₅₀ N ₁₀ O ₅₇	2234.91453	2235.9136
		3.08	3	2.24	1						

Table 2: Characterization Data for the Sialooligomers.

Figure Captions (Supplementary Material)

Figure 5: NH/ND exchange plots of amide protons, $\delta=6.5-8.5$ ppm, for sialooligomers monomer through tetramer.

Figure 6: NH/ND exchange plots of amide protons, $\delta=6.5-8.5$ ppm, for sialooligomers pentamer through octamer.

Figure 7: Individually resolved internal amide peaks of dimer, trimer, and tetramer.

Figure 8: Pseudo-first-order linear fit calculations for internal amides of sialooligomers dimer through pentamer. (Oligomers > 5 calculated from data collected after end amide exchange).

Figure 9: Pseudo-first-order linear fit calculations for internal amides of sialooligomers hexamer through octamer, calculated from data collected after end amide exchange.

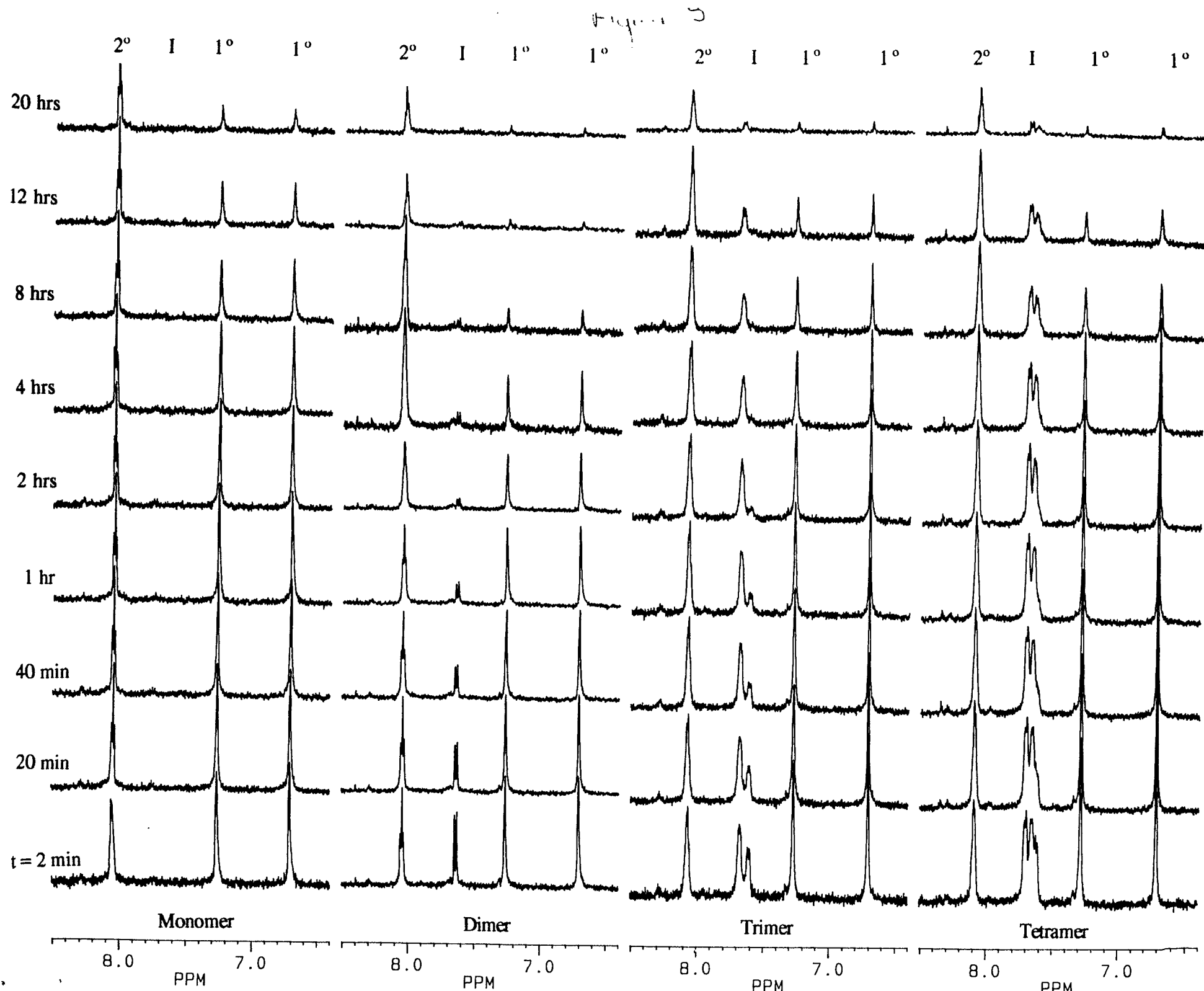


Figure 6

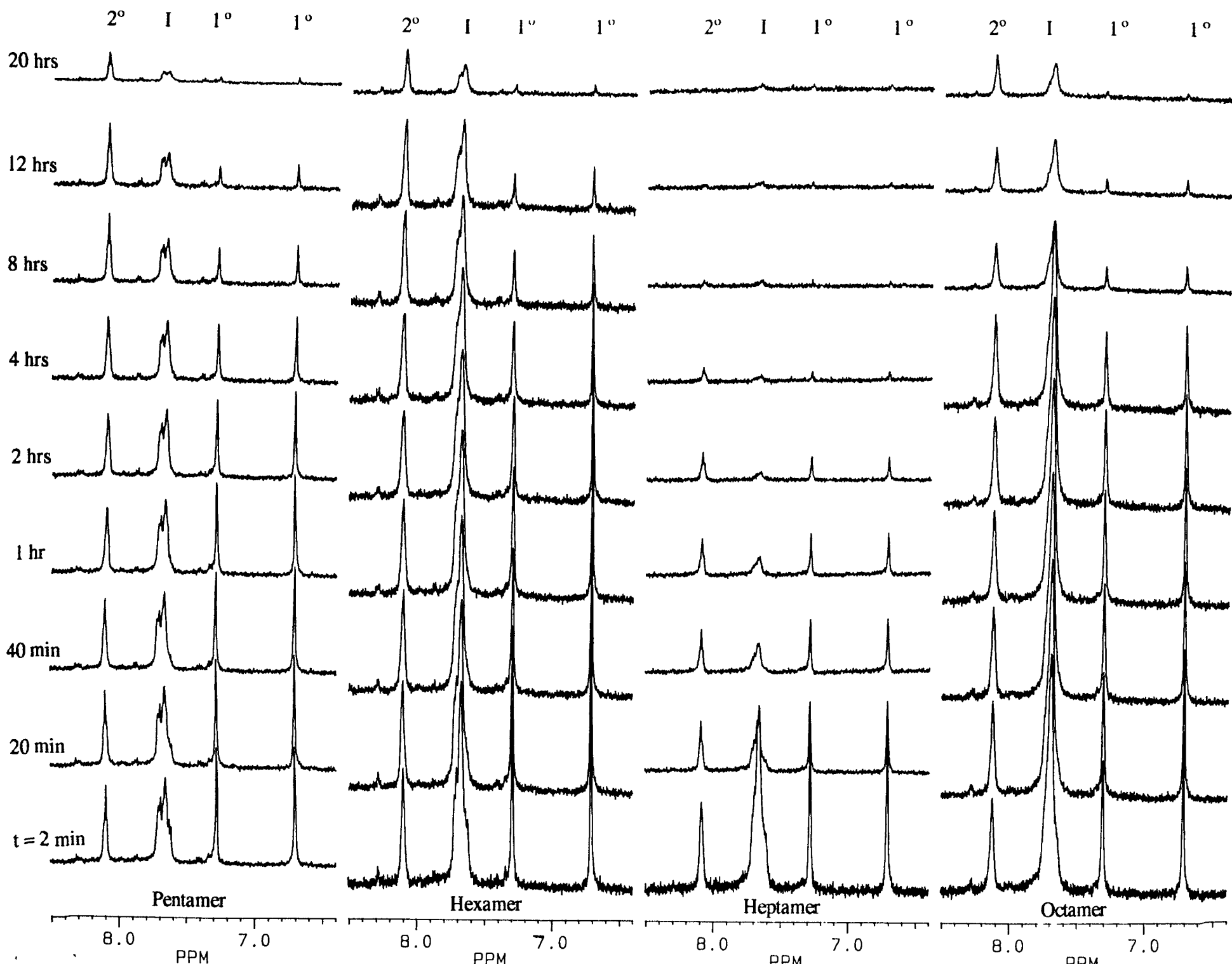


Figure 7

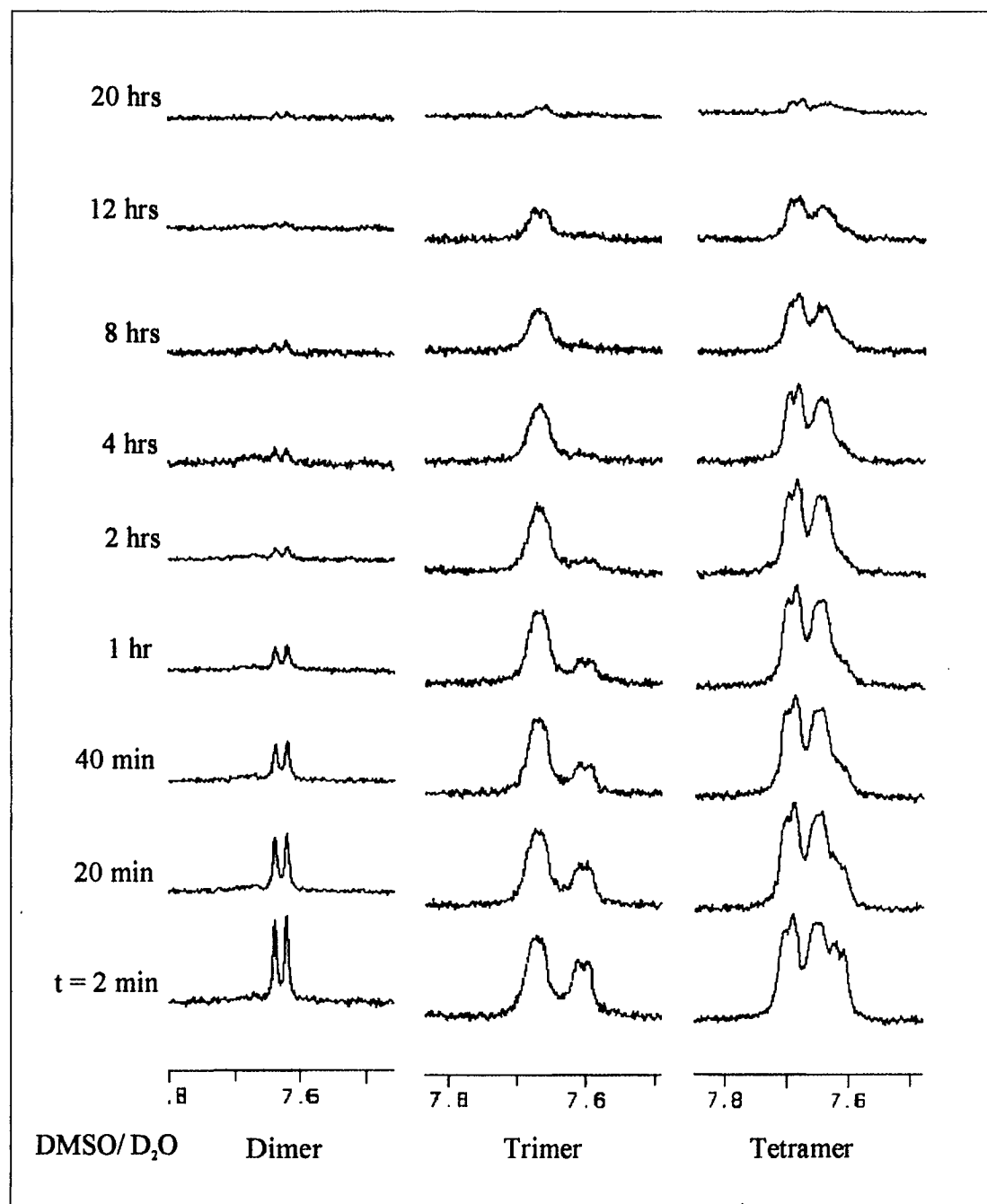
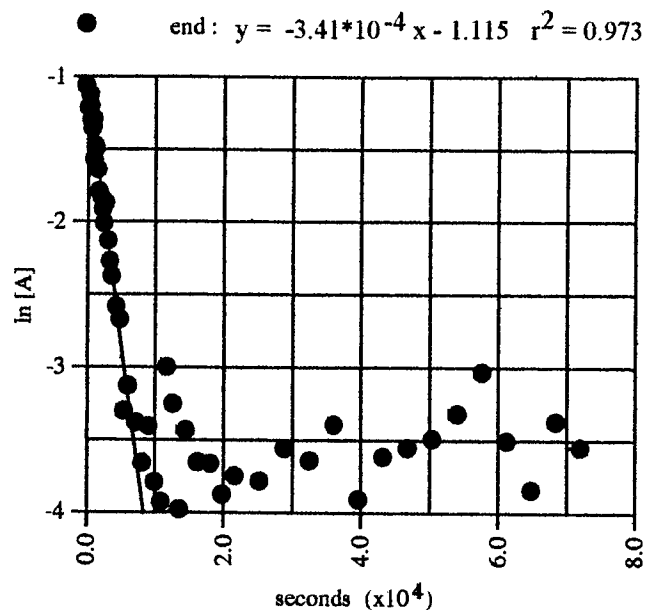
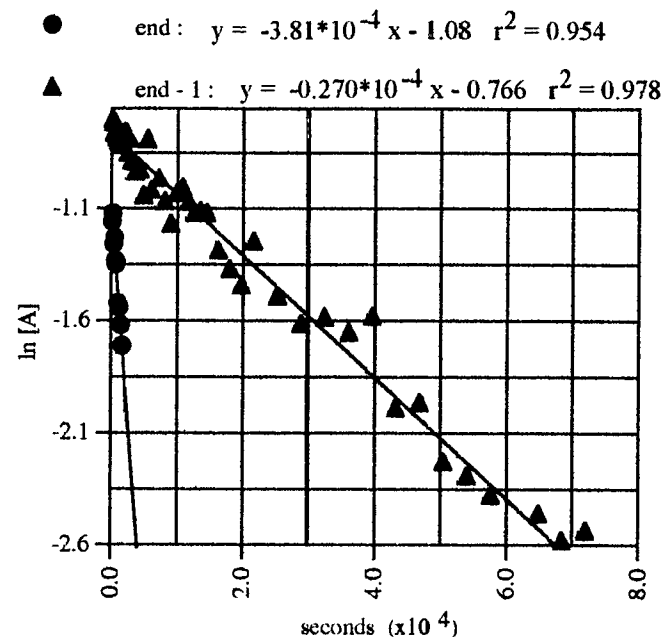


Figure 8

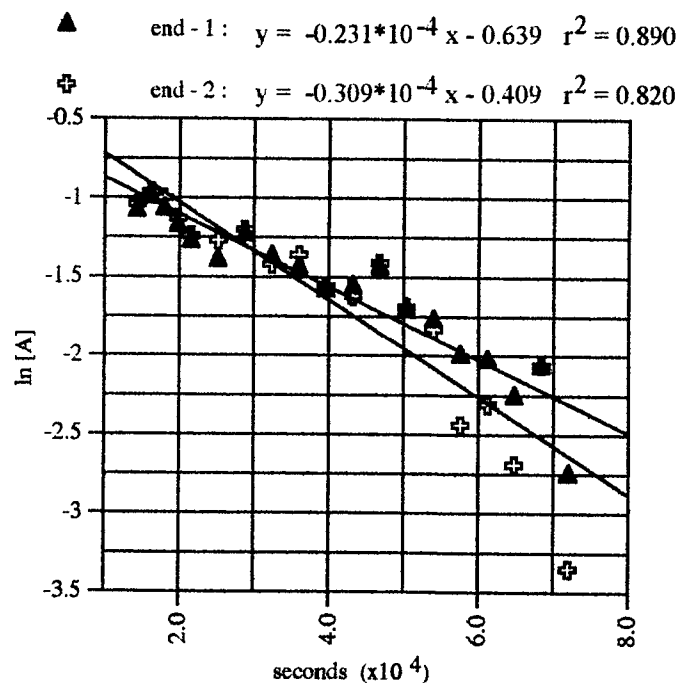
Dimer Internal Amide:



Trimer Internal Amides:



Tetramer Internal Amides:



Pentamer Internal Amides:

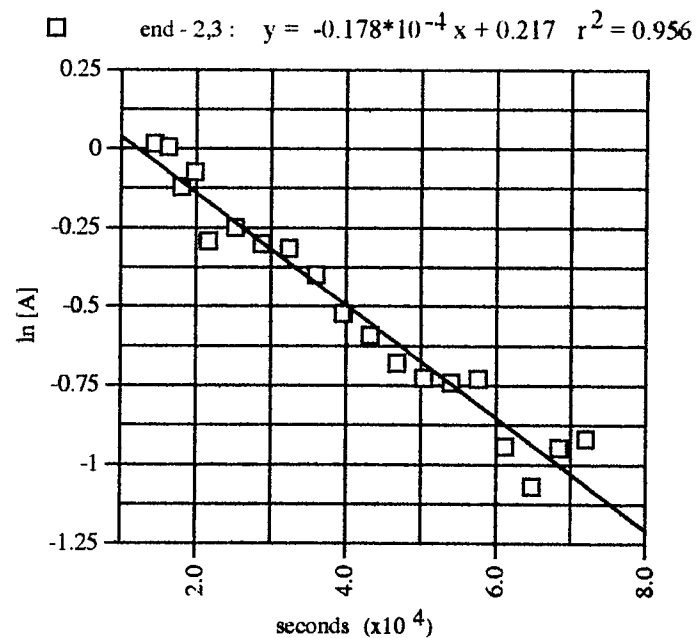
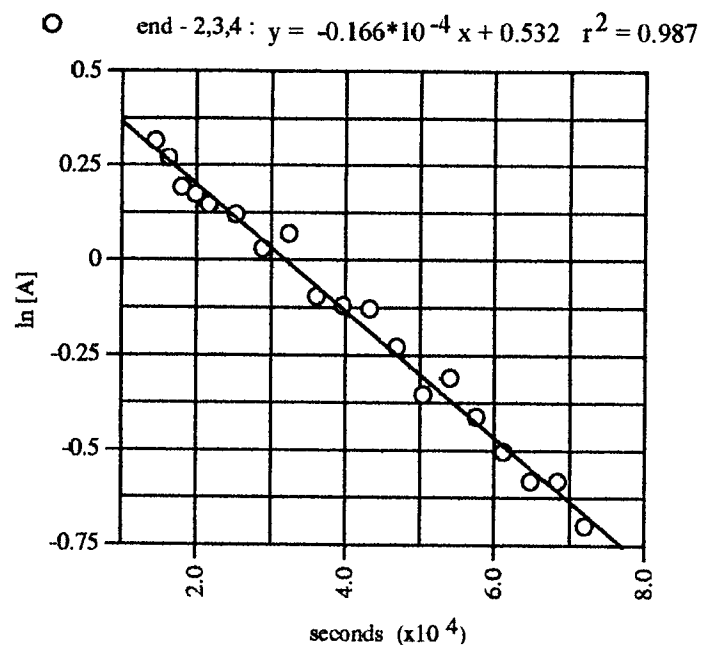
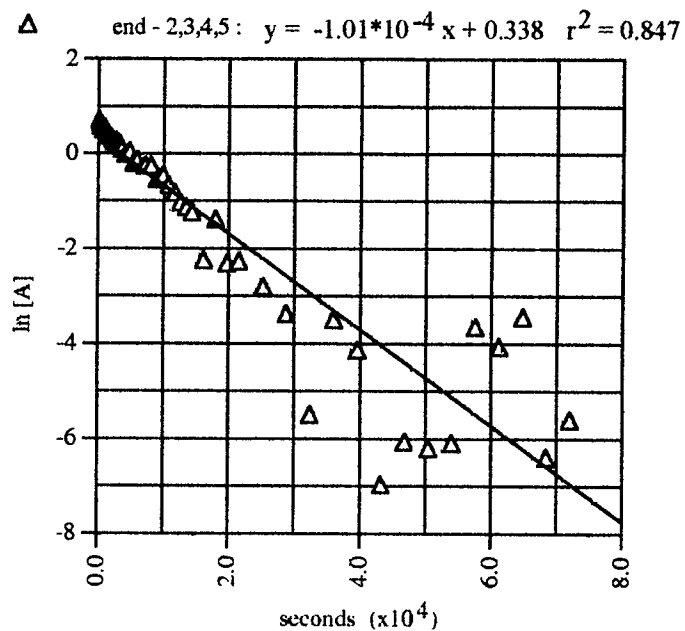


Figure 9

Hexamer Internal Amides:



Heptamer Internal Amides:



Octamer Internal Amides:

