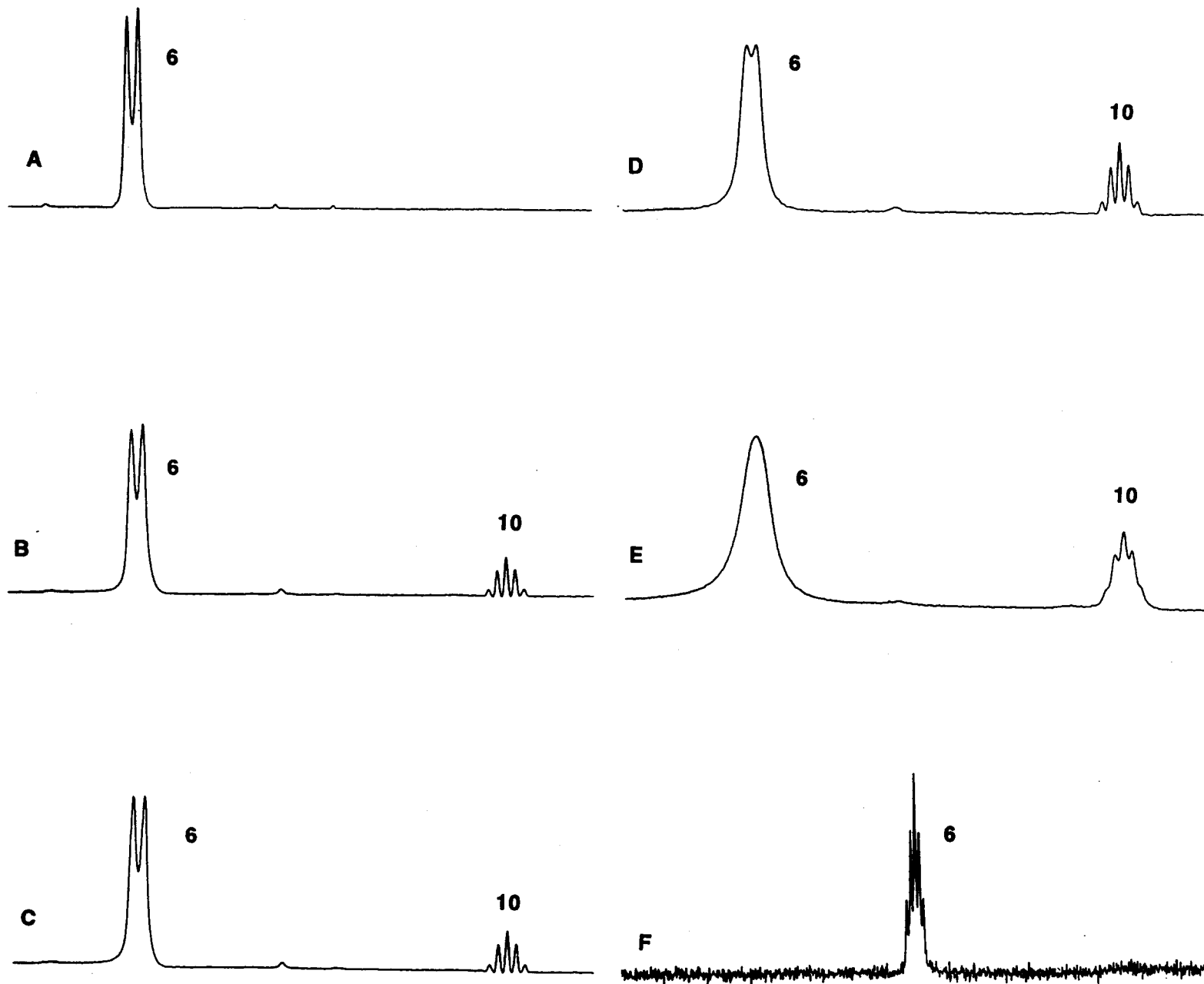
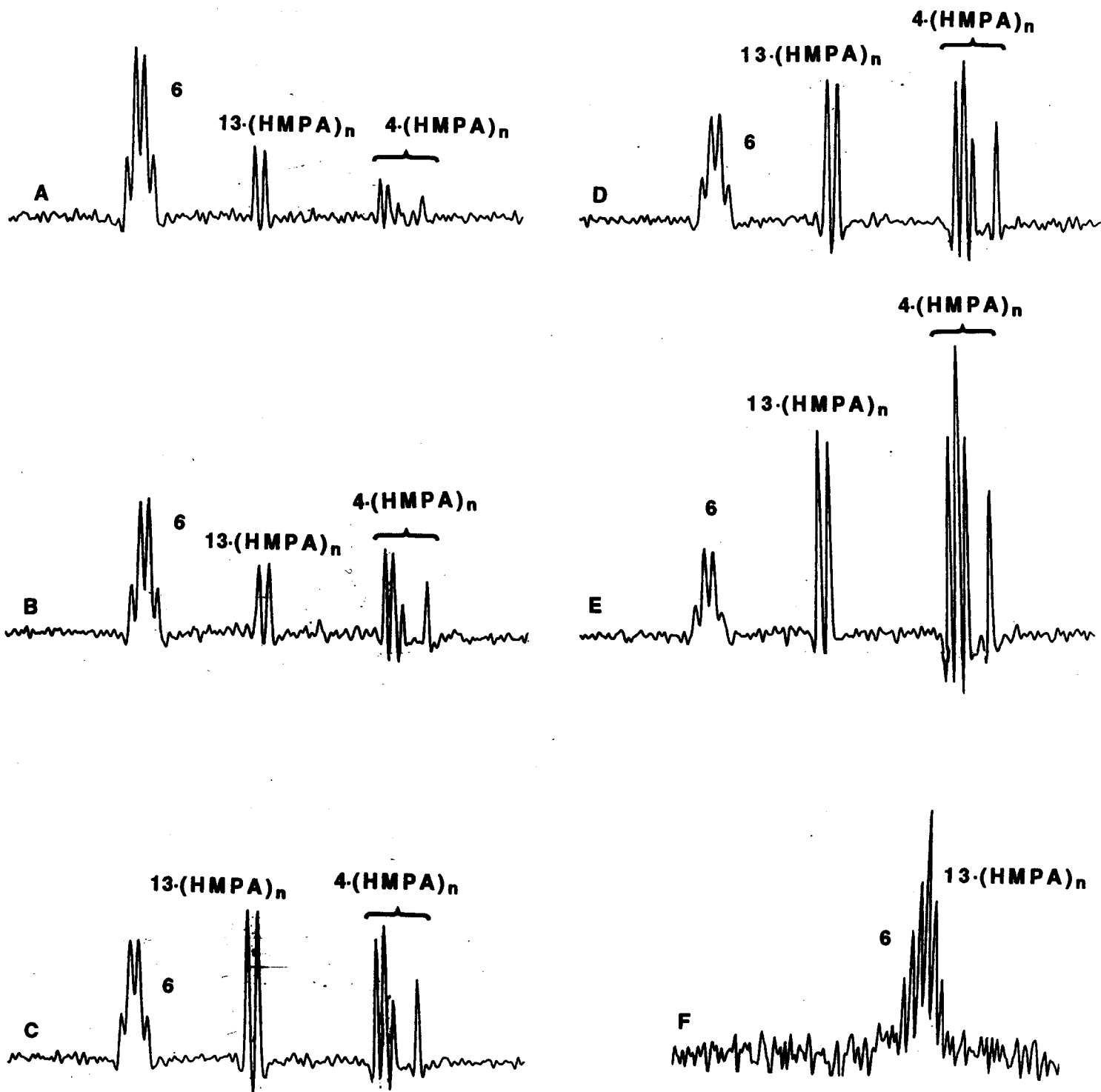


J9202-m1



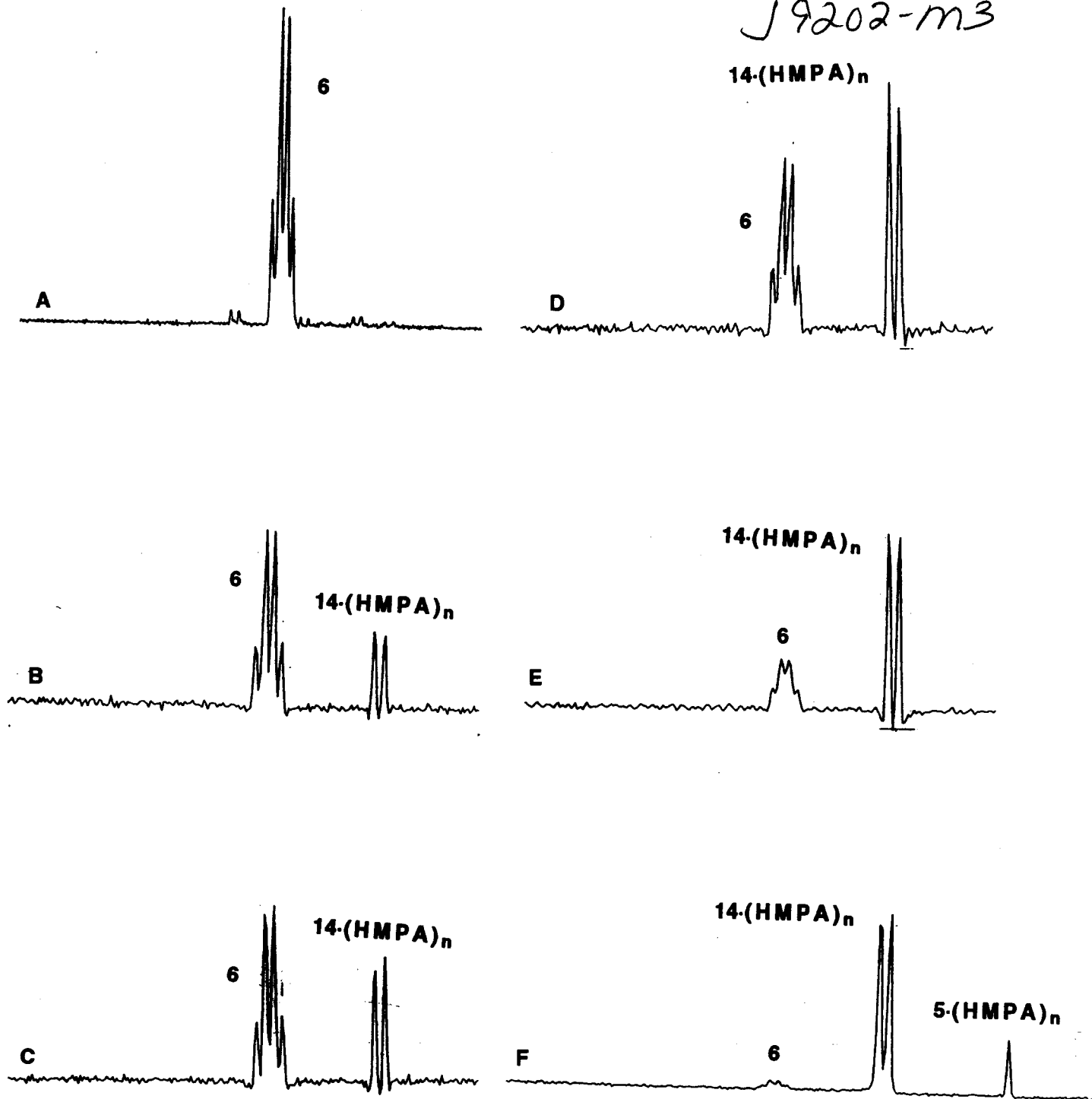
I.  $^6\text{Li}$  NMR spectra of 0.10 M  $^6\text{Li}$ LDA /4.0 equiv. HMPA with added  $^6\text{LiLiCl}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $^6\text{LiLiCl}$ ; (B) 0.2 equiv. of  $^6\text{LiLiCl}$ ; (C) 0.5 equiv. of  $^6\text{LiLiCl}$ ; (D) 1.0 equiv. of  $^6\text{LiLiCl}$ ; (E) 1.5 equiv. of  $^6\text{LiLiCl}$ ; (F)  $^{15}\text{N}$  spectrum of 0.10 M  $^6\text{Li},^{15}\text{N}$ LDA/4.0 HMPA with 1.5 equiv. of  $^6\text{LiLiCl}$ .

J9202-m2



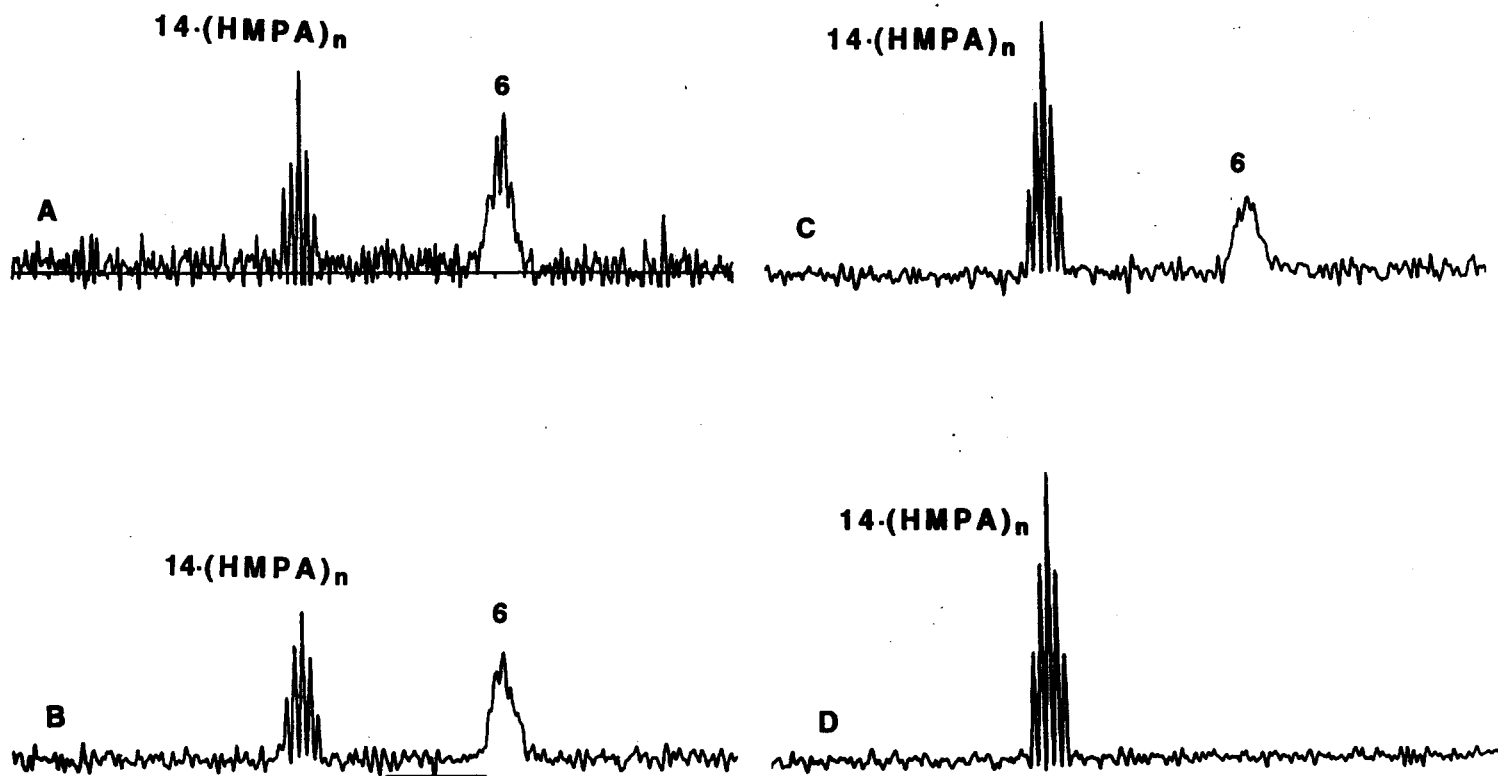
II.  ${}^6\text{Li}$  NMR spectra of 0.10 M  $[{}^6\text{Li}, {}^{15}\text{N}]\text{LDA}$  /4.0 equiv. HMPA with added  $[{}^6\text{Li}]_4$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) 0.2 equiv.  $[{}^6\text{Li}]_4$ ; (B) 0.5 equiv. of  $[{}^6\text{Li}]_4$ ; (C) 0.8 equiv. of  $[{}^6\text{Li}]_4$ ; (D) 1.0 equiv. of  $[{}^6\text{Li}]_4$ ; (E) 2.0 equiv. of  $[{}^6\text{Li}]_4$ ; (F)  ${}^{15}\text{N}$  NMR spectrum with 2.0 equiv. of  $[{}^6\text{Li}]_4$ .

J9202-m3



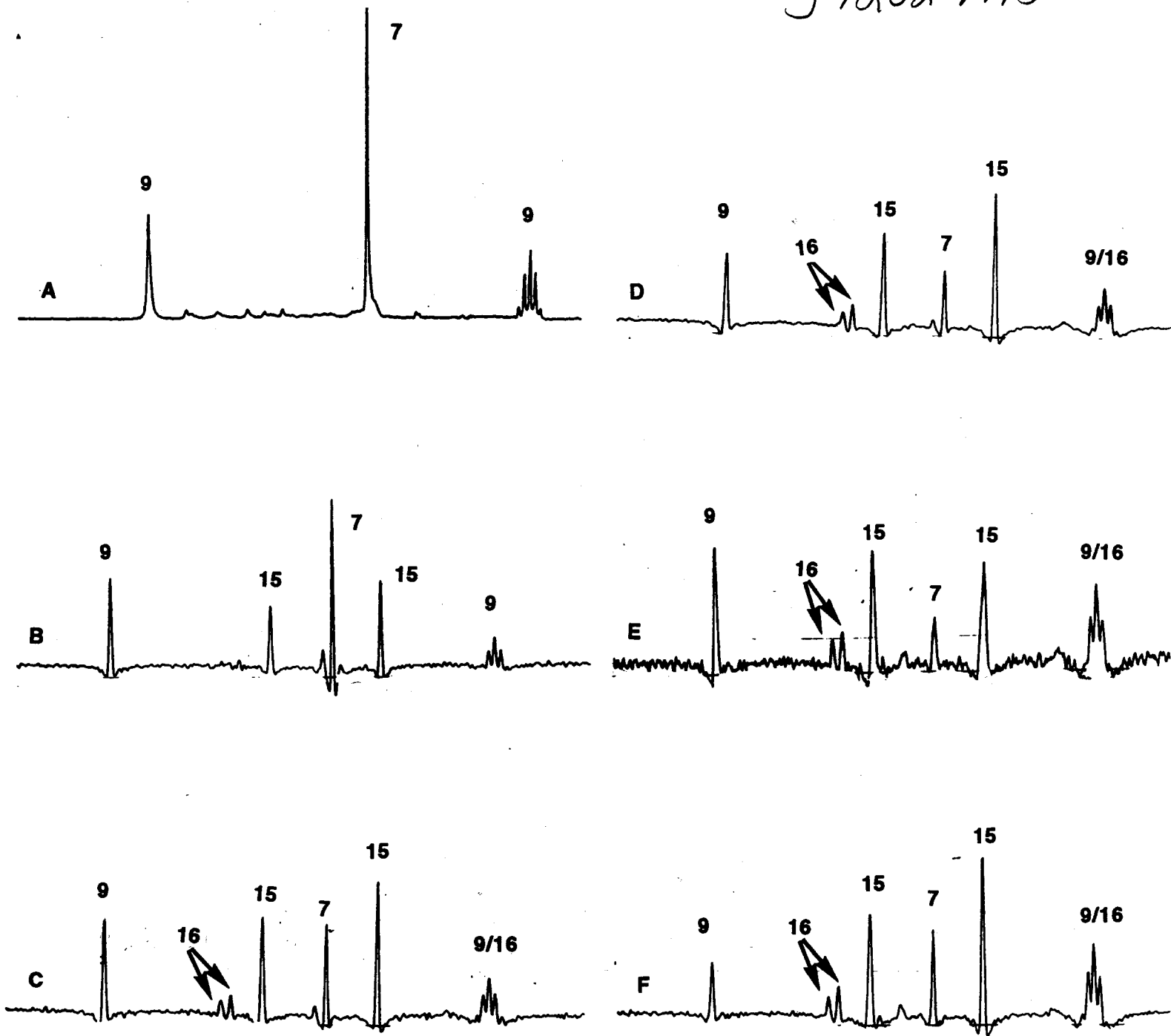
III.  ${}^6\text{Li}$  NMR spectra of  $0.10\text{ M } [{}^6\text{Li}, {}^{15}\text{N}]\text{LDA}$  /  $4.0$  equiv. HMPA with added  ${}^6\text{Li}5$  in  $3:1$  THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  ${}^6\text{Li}5$ ; (B)  $0.2$  equiv. of  ${}^6\text{Li}5$ ; (C)  $0.5$  equiv. of  ${}^6\text{Li}5$ ; (D)  $0.8$  equiv. of  ${}^6\text{Li}5$ ; (E)  $1.0$  equiv. of  ${}^6\text{Li}5$ ; (F)  $1.5$  equiv. of  ${}^6\text{Li}5$

J9202-m4



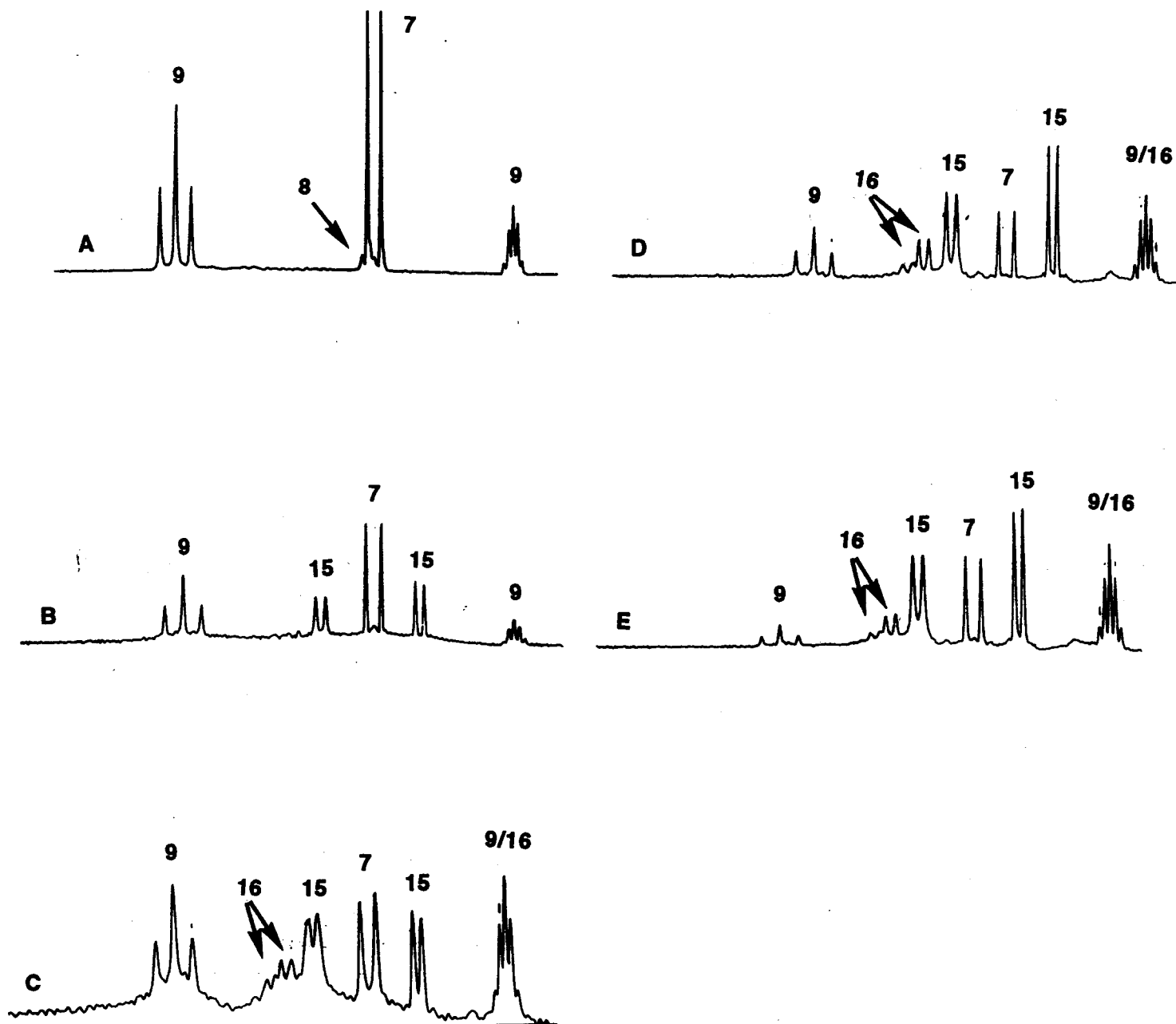
IV.  $^{15}\text{N}$  NMR spectra of 0.10 M  $[^6\text{Li},^{15}\text{N}]\text{LDA}$  /4.0 equiv. HMPA with added  $[^6\text{Li}]\text{5}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) 0.2 equiv.  $[^6\text{Li}]\text{5}$ ; (B) 0.5 equiv. of  $[^6\text{Li}]\text{5}$ ; (C) 0.8 equiv. of  $[^6\text{Li}]\text{5}$ ; (D) 1.0 equiv. of  $[^6\text{Li}]\text{5}$ ;

J9202-m5



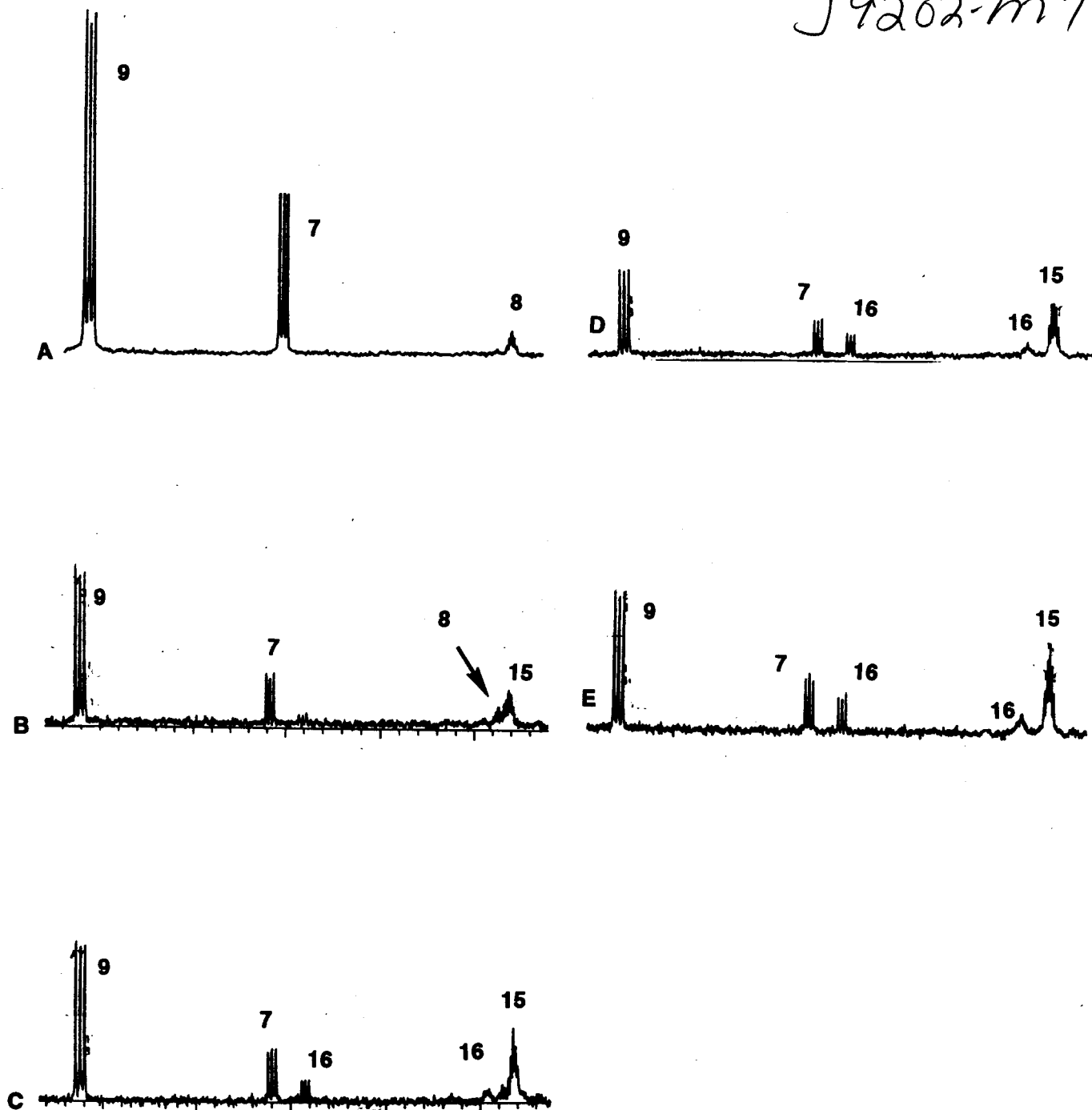
V.  $^6\text{Li}$  NMR spectra of 0.10 M  $[\text{}^6\text{Li}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[\text{}^6\text{Li}]\text{LiCl}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $[\text{}^6\text{Li}]\text{LiCl}$ ; (B) 0.2 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (C) 0.5 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (D) 0.8 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (E) 1.0 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (F) 2.0 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ .

J9202-m6



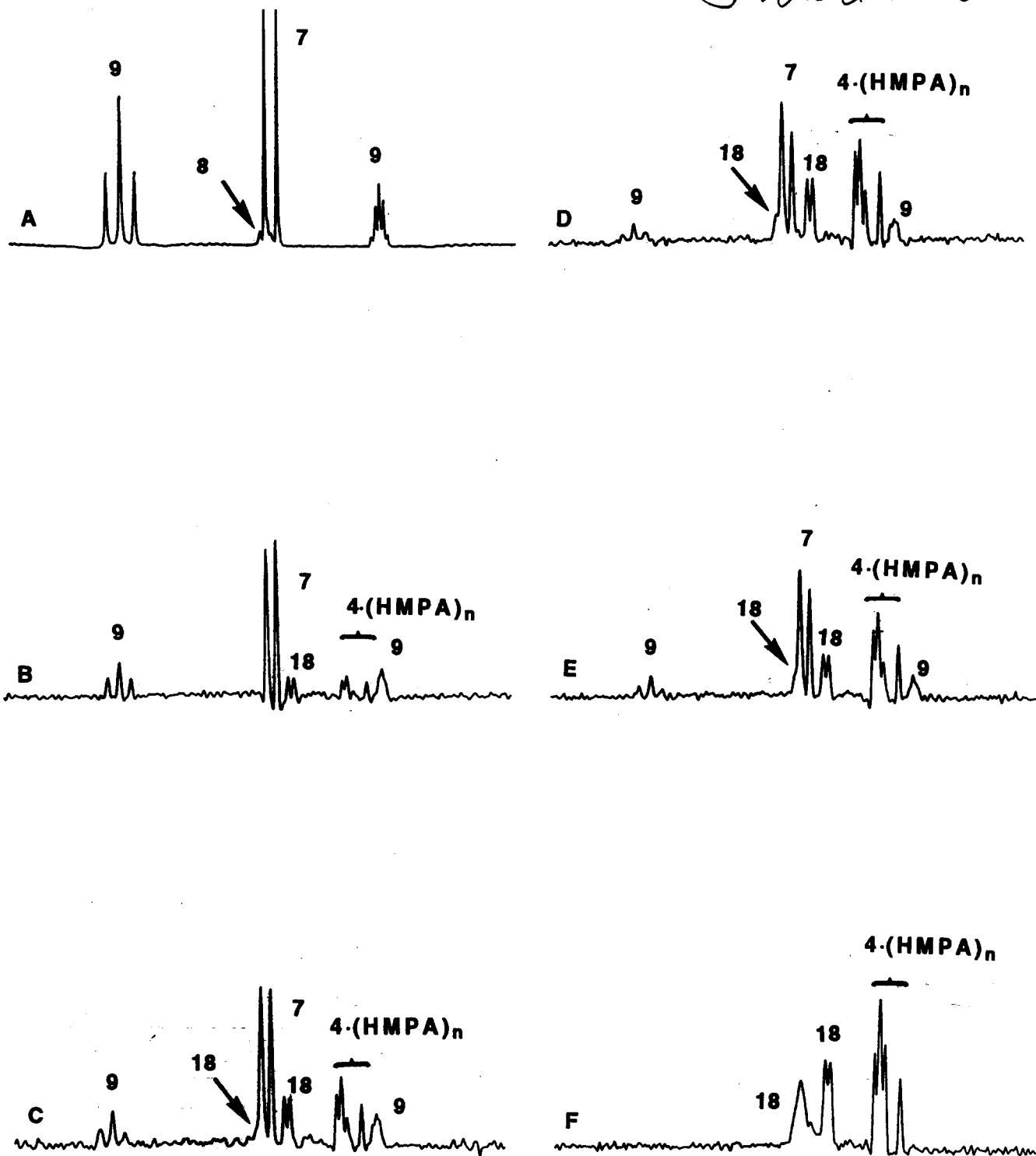
VI.  $^6\text{Li}$  NMR spectra of 0.10 M  $[\text{}^6\text{Li},^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[\text{}^6\text{Li}]\text{LiCl}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $[\text{}^6\text{Li}]\text{LiCl}$ ; (B) 0.2 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (C) 0.5 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (D) 0.8 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (E) 1.0 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ .

J9202-m7



VII.  $^{15}\text{N}$  NMR spectra of 0.10 M  $[\text{}^6\text{Li}, \text{}^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[\text{}^6\text{Li}]\text{LiCl}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $[\text{}^6\text{Li}]\text{LiCl}$ ; (B) 0.2 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (C) 0.5 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (D) 0.8 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ ; (E) 1.0 equiv. of  $[\text{}^6\text{Li}]\text{LiCl}$ .

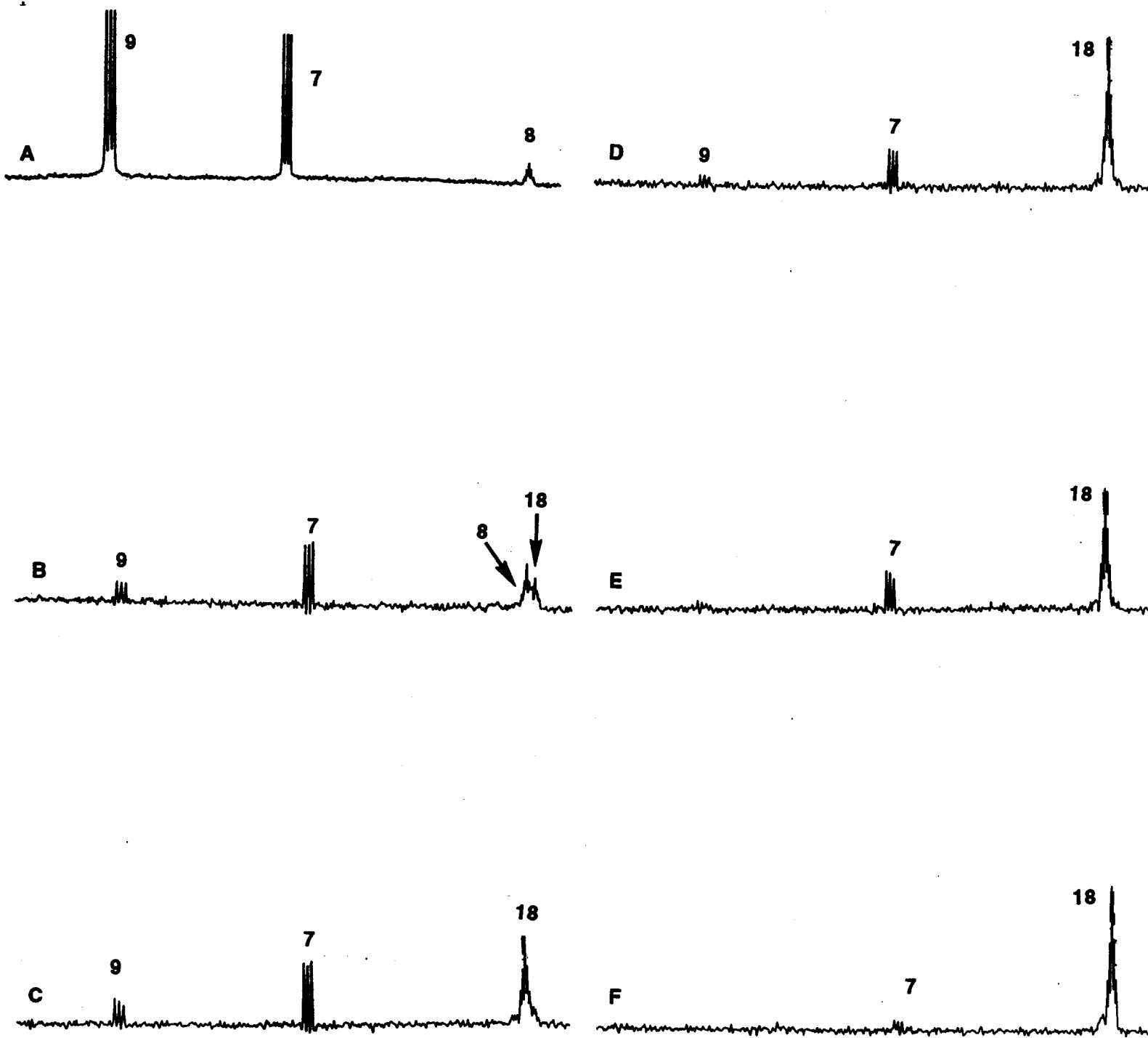
J9202-m8



VIII.  ${}^6\text{Li}$  NMR spectra of 0.10 M  $[{}^6\text{Li}, {}^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[{}^6\text{Li}]_4$  in 3:1 THF/hexane at  $-128\text{ }^\circ\text{C}$ : (A) no added  $[{}^6\text{Li}]_4$ ; (B) 0.2 equiv. of  $[{}^6\text{Li}]_4$ ; (C) 0.5 equiv. of  $[{}^6\text{Li}]_4$ ; (D) 0.8 equiv. of  $[{}^6\text{Li}]_4$ ; (E) 1.0 equiv. of  $[{}^6\text{Li}]_4$ ; (F) 1.5 equiv. of  $[{}^6\text{Li}]_4$ .

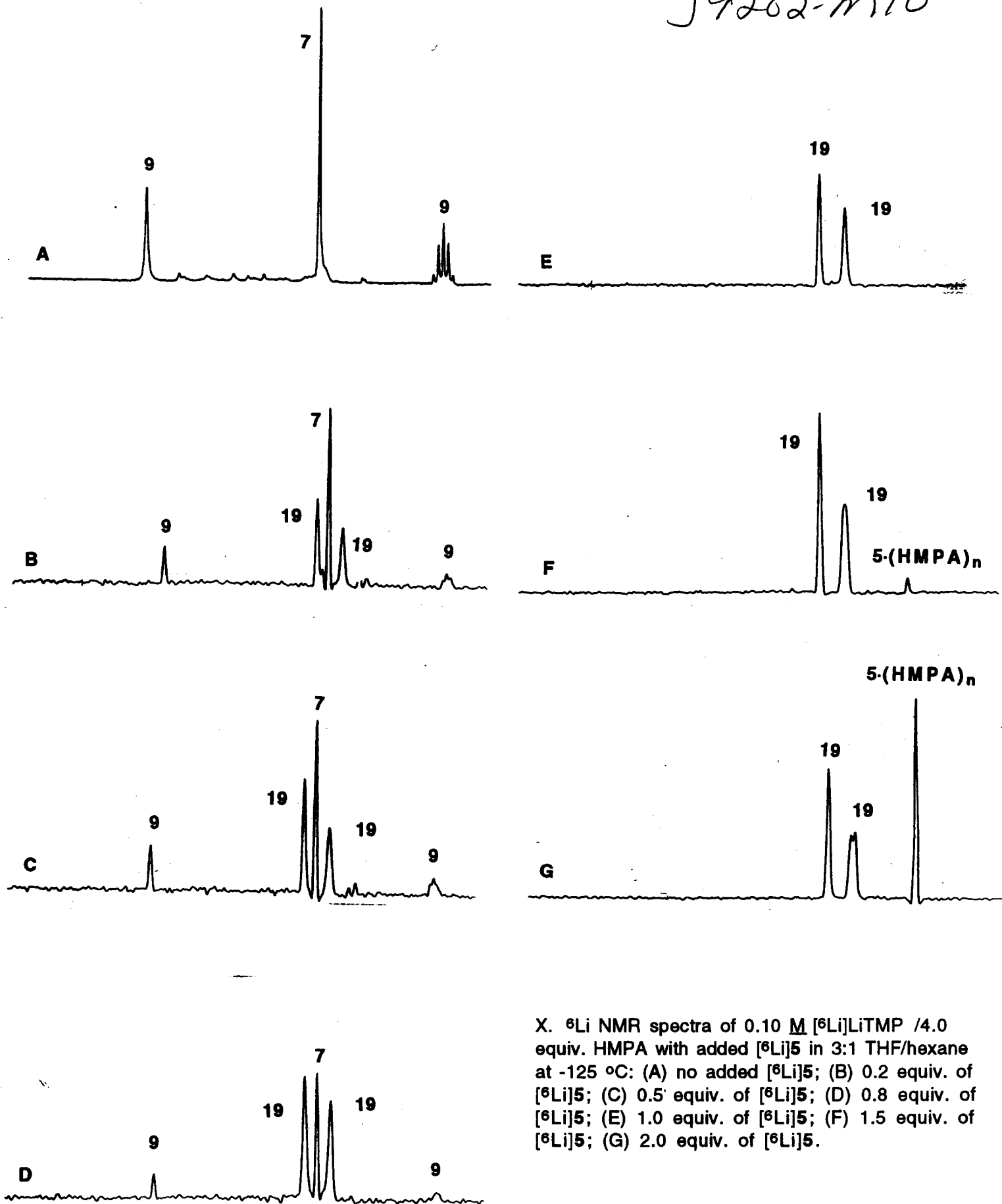


J9202-m9



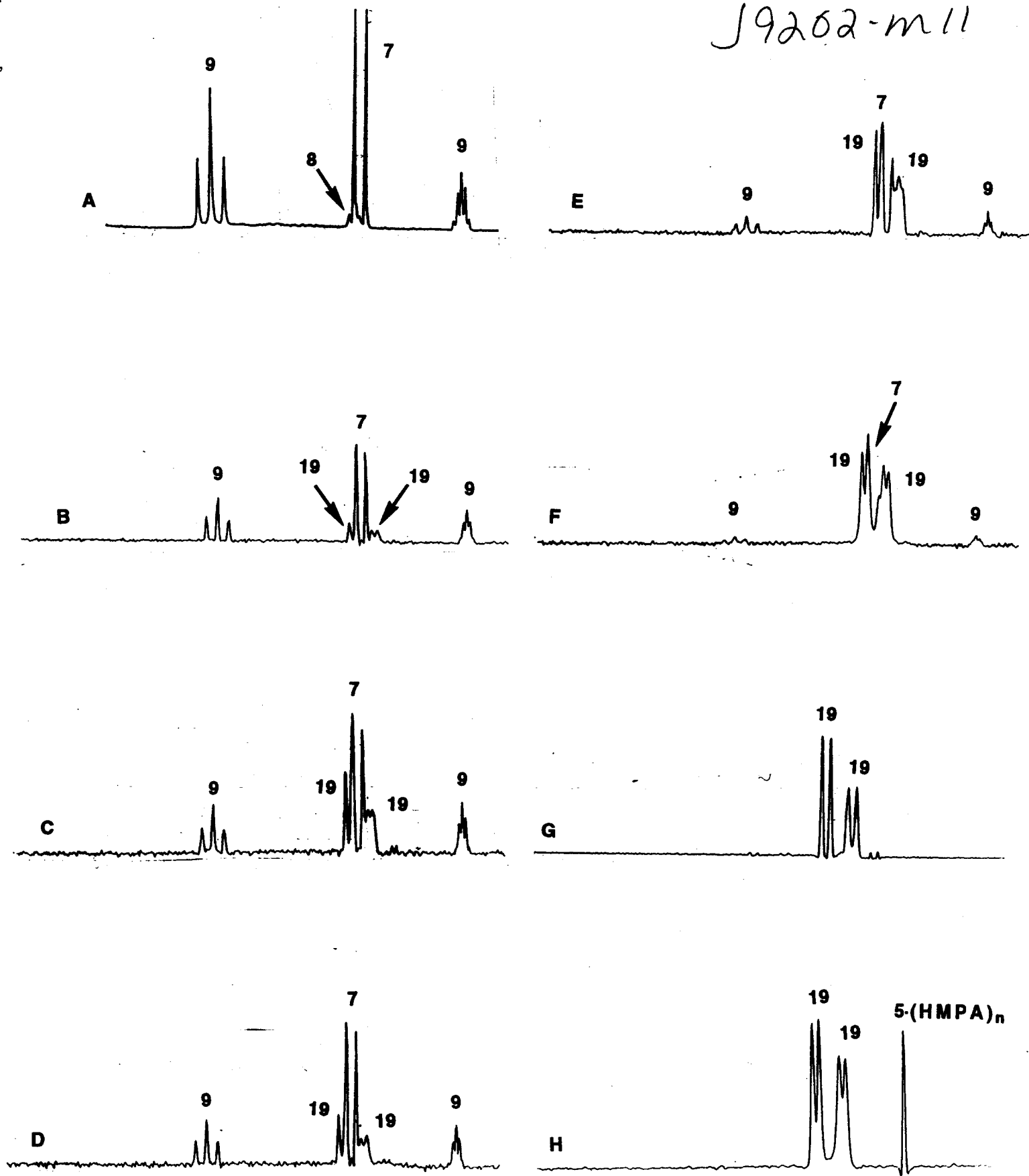
IX.  $^{15}\text{N}$  NMR spectra of 0.10 M  $[\text{}^6\text{Li},^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[\text{}^6\text{Li}]_4$  in 3:1 THF/hexane at  $-128\text{ }^\circ\text{C}$ : (A) no added  $[\text{}^6\text{Li}]_4$ ; (B) 0.2 equiv. of  $[\text{}^6\text{Li}]_4$ ; (C) 0.5 equiv. of  $[\text{}^6\text{Li}]_4$ ; (D) 0.8 equiv. of  $[\text{}^6\text{Li}]_4$ ; (E) 1.0 equiv. of  $[\text{}^6\text{Li}]_4$ ; (F) 1.5 equiv. of  $[\text{}^6\text{Li}]_4$ .

J9202-m10



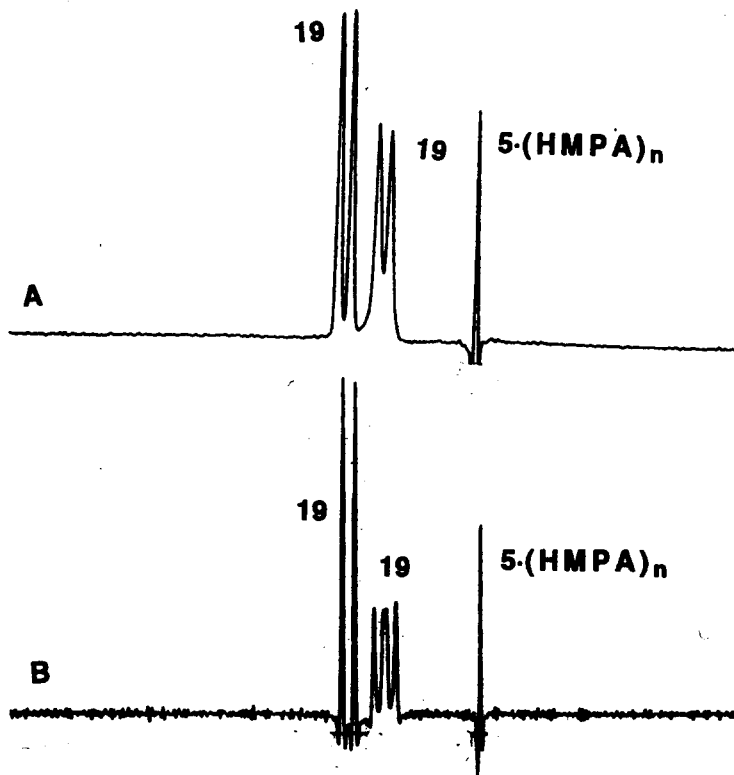
X.  ${}^6\text{Li}$  NMR spectra of 0.10 M  ${}^6\text{Li}$ LiTMP /4.0 equiv. HMPA with added  ${}^6\text{Li}5$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  ${}^6\text{Li}5$ ; (B) 0.2 equiv. of  ${}^6\text{Li}5$ ; (C) 0.5 equiv. of  ${}^6\text{Li}5$ ; (D) 0.8 equiv. of  ${}^6\text{Li}5$ ; (E) 1.0 equiv. of  ${}^6\text{Li}5$ ; (F) 1.5 equiv. of  ${}^6\text{Li}5$ ; (G) 2.0 equiv. of  ${}^6\text{Li}5$ .

J9202-m11



XI.  ${}^6\text{Li}$  NMR spectra of  $0.10\text{ M } [{}^6\text{Li}, {}^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[\text{}^6\text{Li}]\text{5}$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $[\text{}^6\text{Li}]\text{5}$ ; (B) 0.2 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (C) 0.3 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (D) 0.5 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (E) 0.6 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (F) 0.8 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (G) 1.0 equiv. of  $[\text{}^6\text{Li}]\text{5}$ ; (H) 1.5 equiv. of  $[\text{}^6\text{Li}]\text{5}$ .

J9202-m12

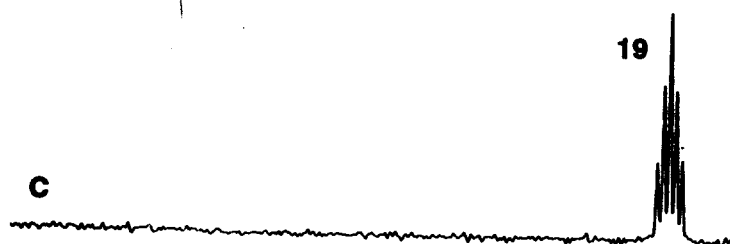
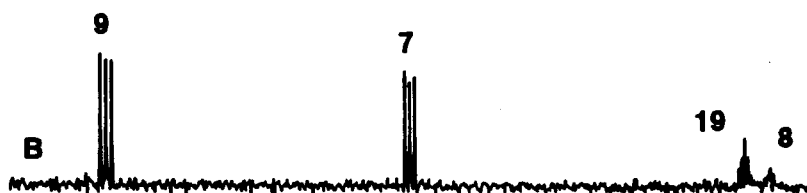
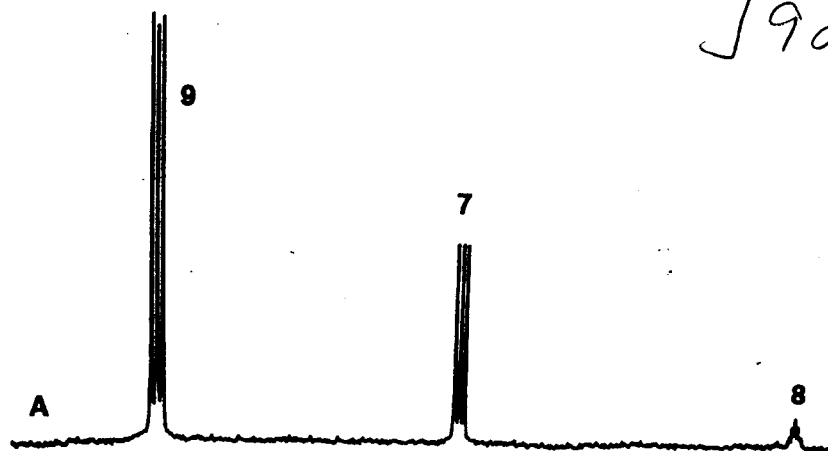


XII.  ${}^6\text{Li}$  NMR spectra of 0.10 M  $[{}^6\text{Li}, {}^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with 1.5 equiv. added  $[{}^6\text{Li}]\text{5}$  in 3:1 THF/hexane: (A) at  $-125\text{ }^\circ\text{C}$ ; (B) at  $-128\text{ }^\circ\text{C}$

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XIII.  $^{15}\text{N}$  NMR spectra of 0.10 M  $[^6\text{Li},^{15}\text{N}]\text{LiTMP}$  /4.0 equiv. HMPA with added  $[^6\text{Li}]_5$  in 3:1 THF/hexane at  $-125\text{ }^\circ\text{C}$ : (A) no added  $[^6\text{Li}]_5$ ; (B) 0.2 equiv. of  $[^6\text{Li}]_5$ ; (C) 1.5 equiv. of  $[^6\text{Li}]_5$ .