

Figure S1. Far-UV (Top) and near-UV (Bottom) CD spectra of Q1-VSD in LPPG micelles at pH 5.5 and 50 °C

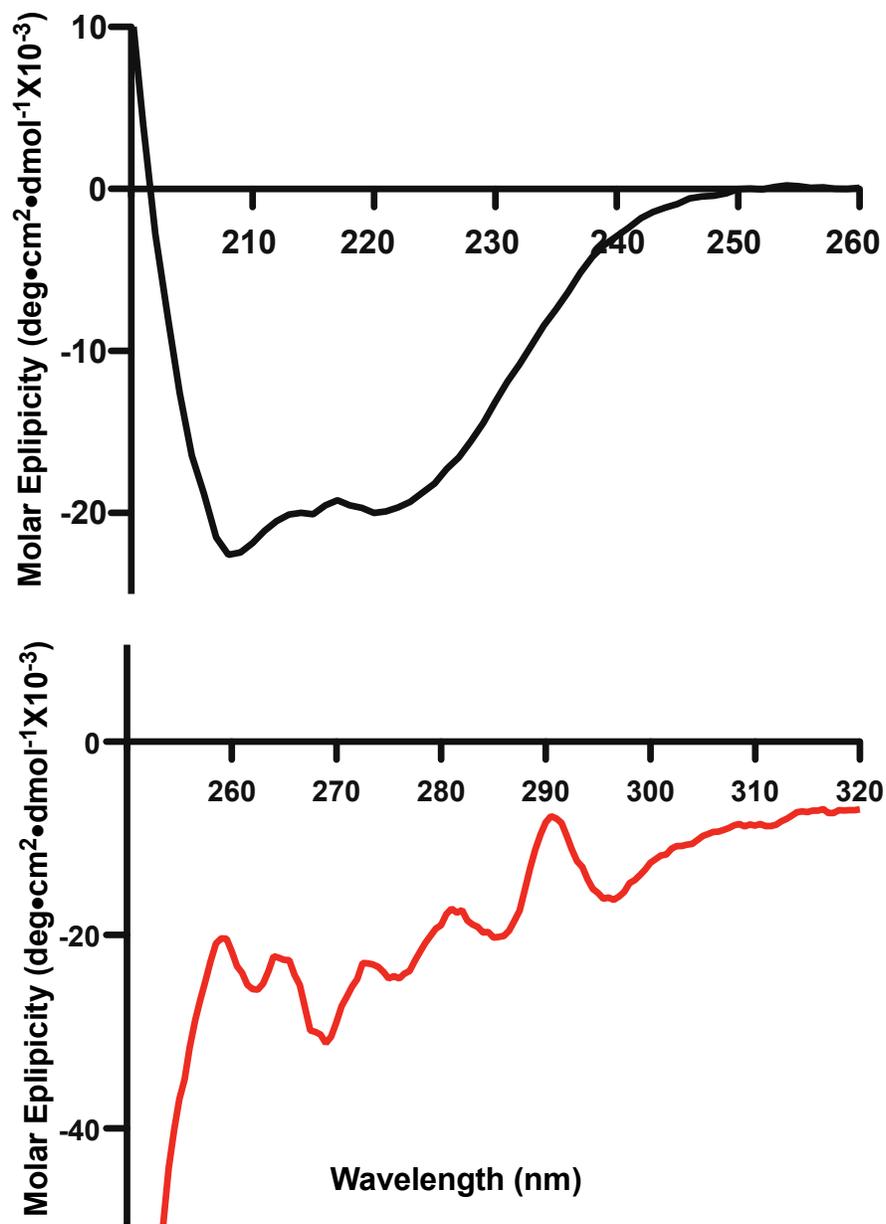


Figure S2. Example of sequential assignment of backbone NMR resonances for Q1-VSD in LPPG micelles. Shown are peak connectivities for sites M238-R243 based on TROSY-based **(A)** HNCA (red) and HNCOCA (black) and **(B)** HNCOC (red) and HNCACO (black) spectra.

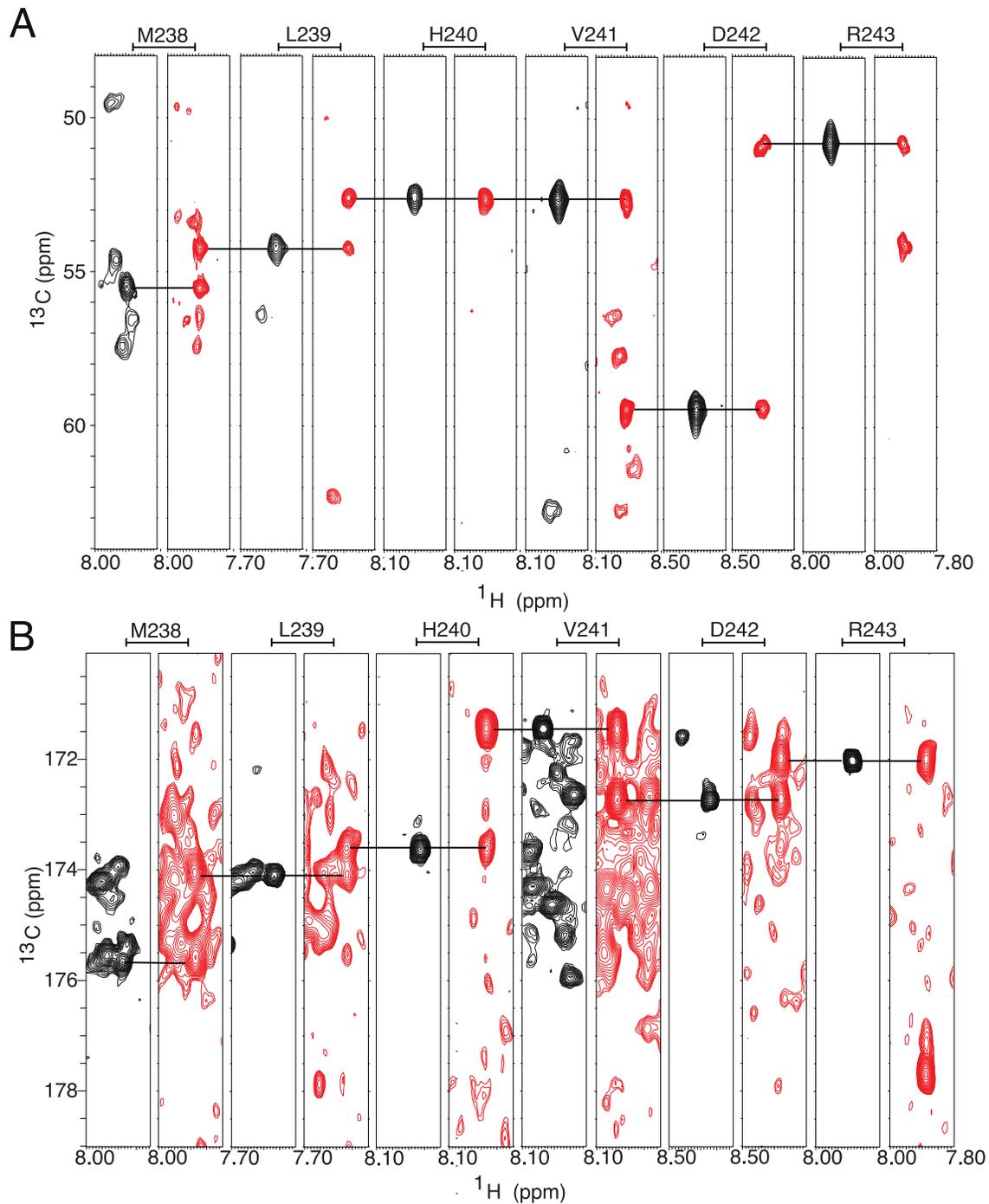


Figure S3. $^1\text{H},^{15}\text{N}$ -TROSY spectra of amino acid-selective isotopically-labeled Q1-VSD (100-143) samples (red spectra) superimposed on the spectrum for the uniformly ^{15}N -labeled Q1-VSD (black). These overlays assist in the completion of TROSY peak assignments for the following amino acid types. (A), ^{15}N -Leu; (B), ^{15}N -Ile; (C), ^{15}N -Val; (D), ^{15}N -Tyr; and (E), reverse isotopically-labeled sample (^{14}N -Arg in otherwise ^{15}N -labeled protein).

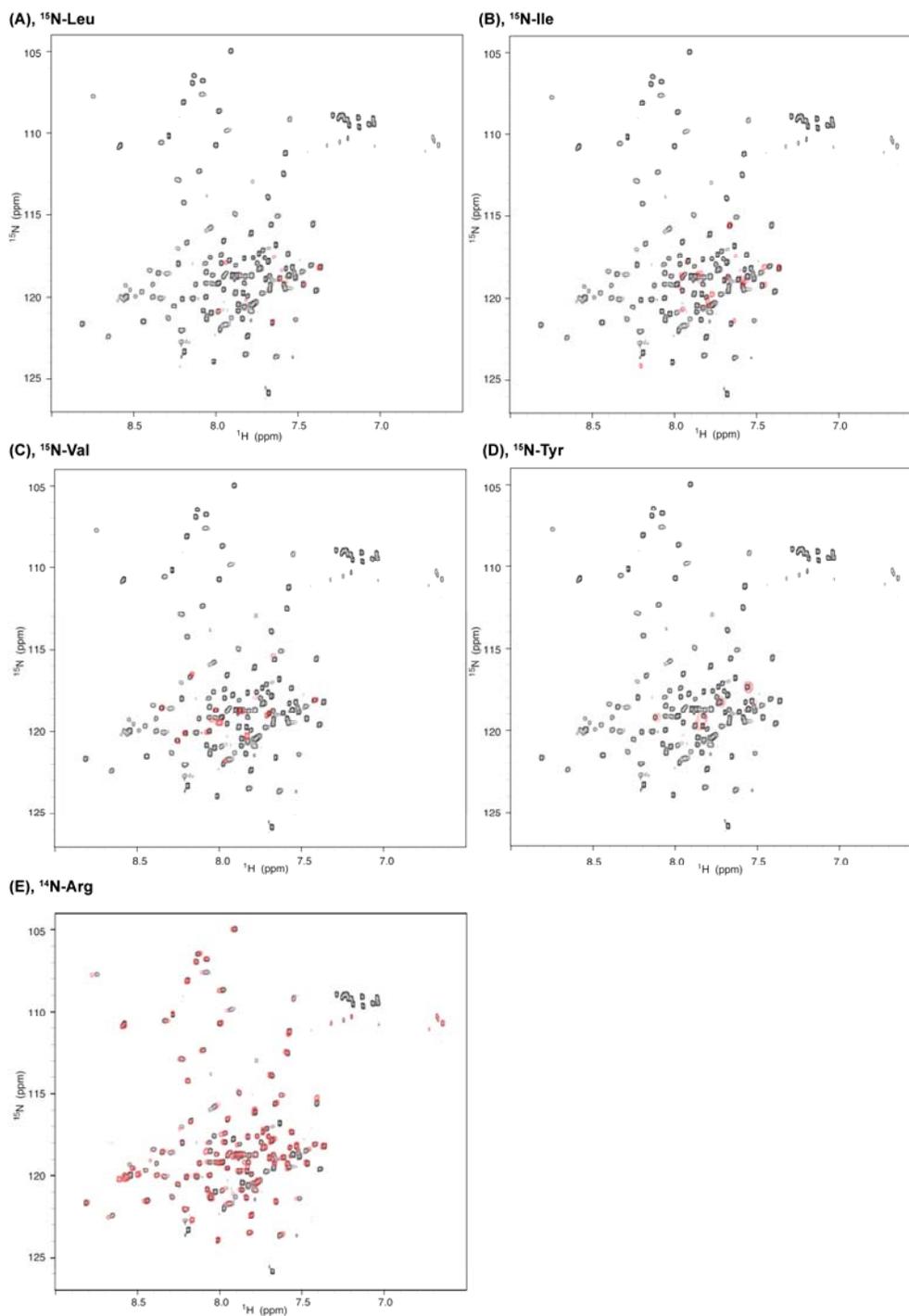


Figure S4. Selected 2-D slices from a 3-D NOESY-TROSY NMR spectrum of wild type VSD, showing use of this data in making or confirming backbone amide peak assignments.

