

Supplementary Material

Synthesis of fluorosolvatochromic phenanthrenyl-substituted benzoquinolizinium derivatives

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1. Emission Color

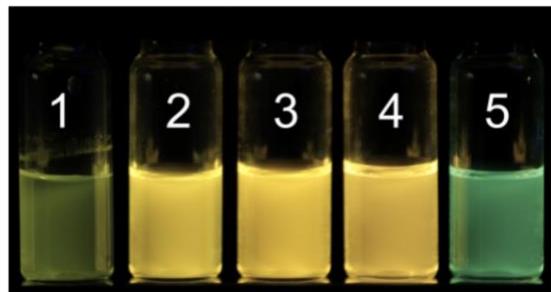


Figure S1. Emission colors of derivative **8** in various solvents; $\lambda_{\text{ex}} = 366 \text{ nm}$. 1: H_2O , 2: MeOH , 3: MeCN , 4: DMSO , 5: CHCl_3 .

2. ^1H - and ^{13}C -NMR spectra

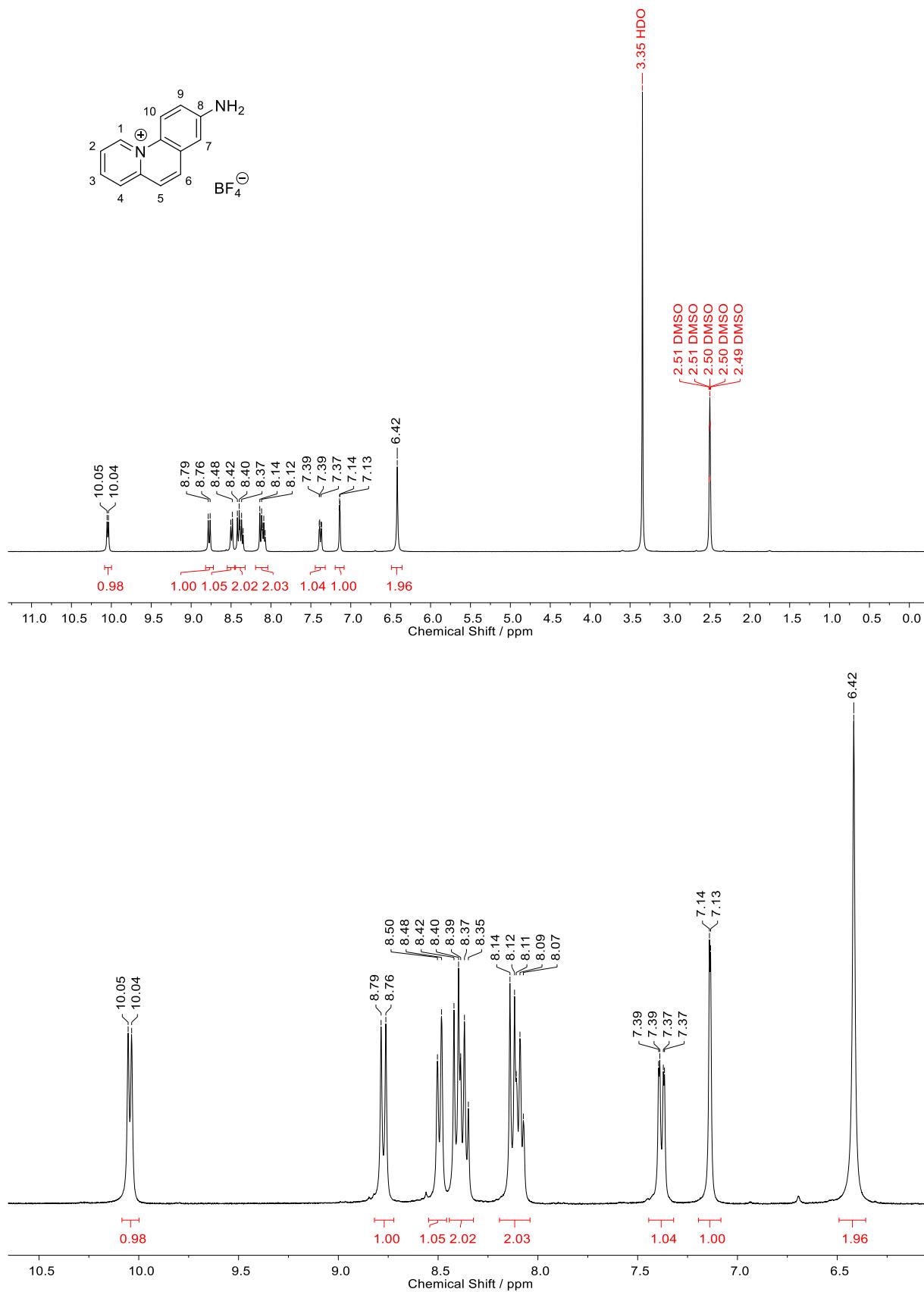


Figure S1. ^1H -NMR spectrum (400 MHz) of derivative **3b** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

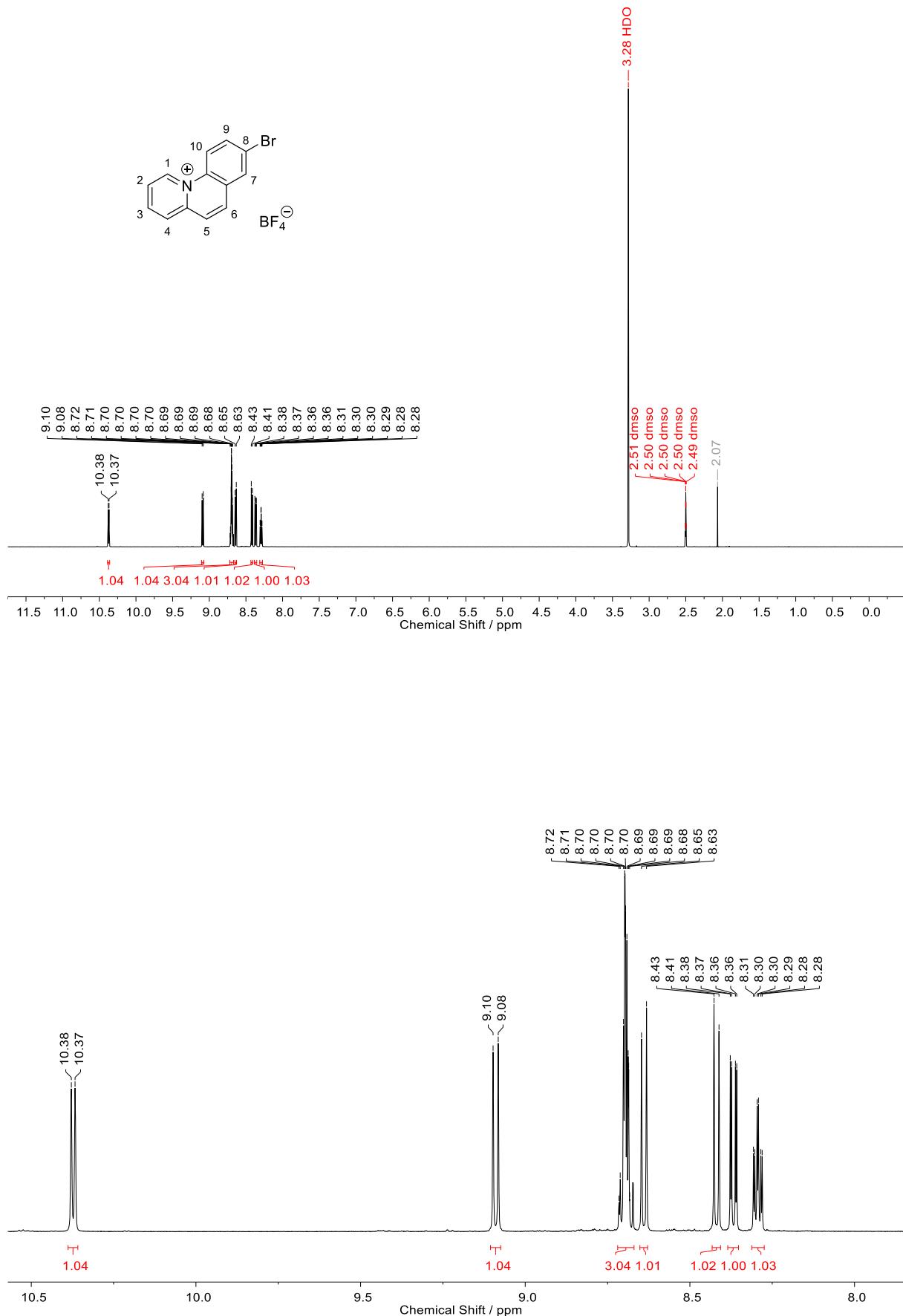


Figure S2. ^1H -NMR spectrum (600 MHz) of derivative **3c** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

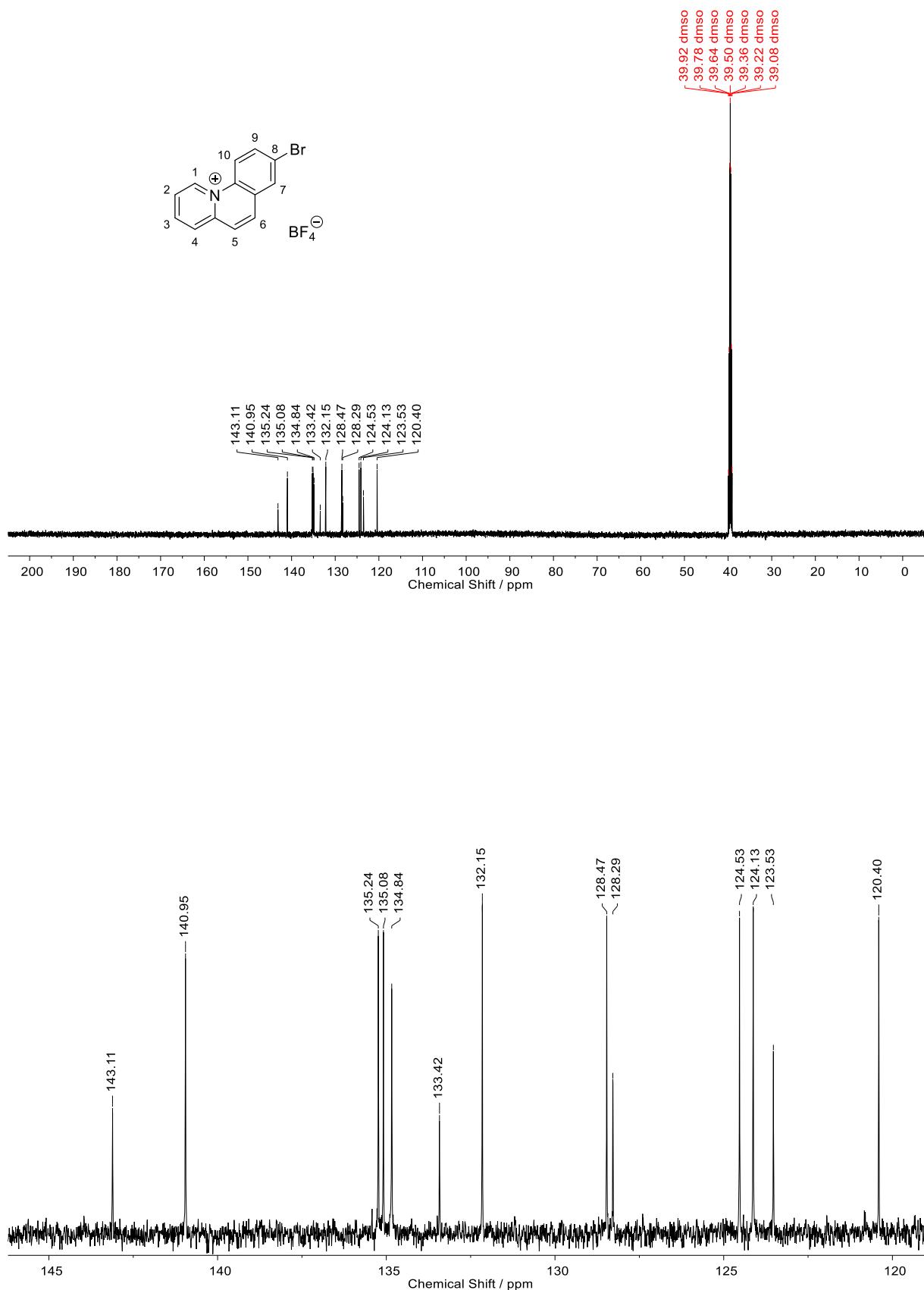


Figure S3. ^{13}C -NMR spectrum (150 MHz) of derivative **3c** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

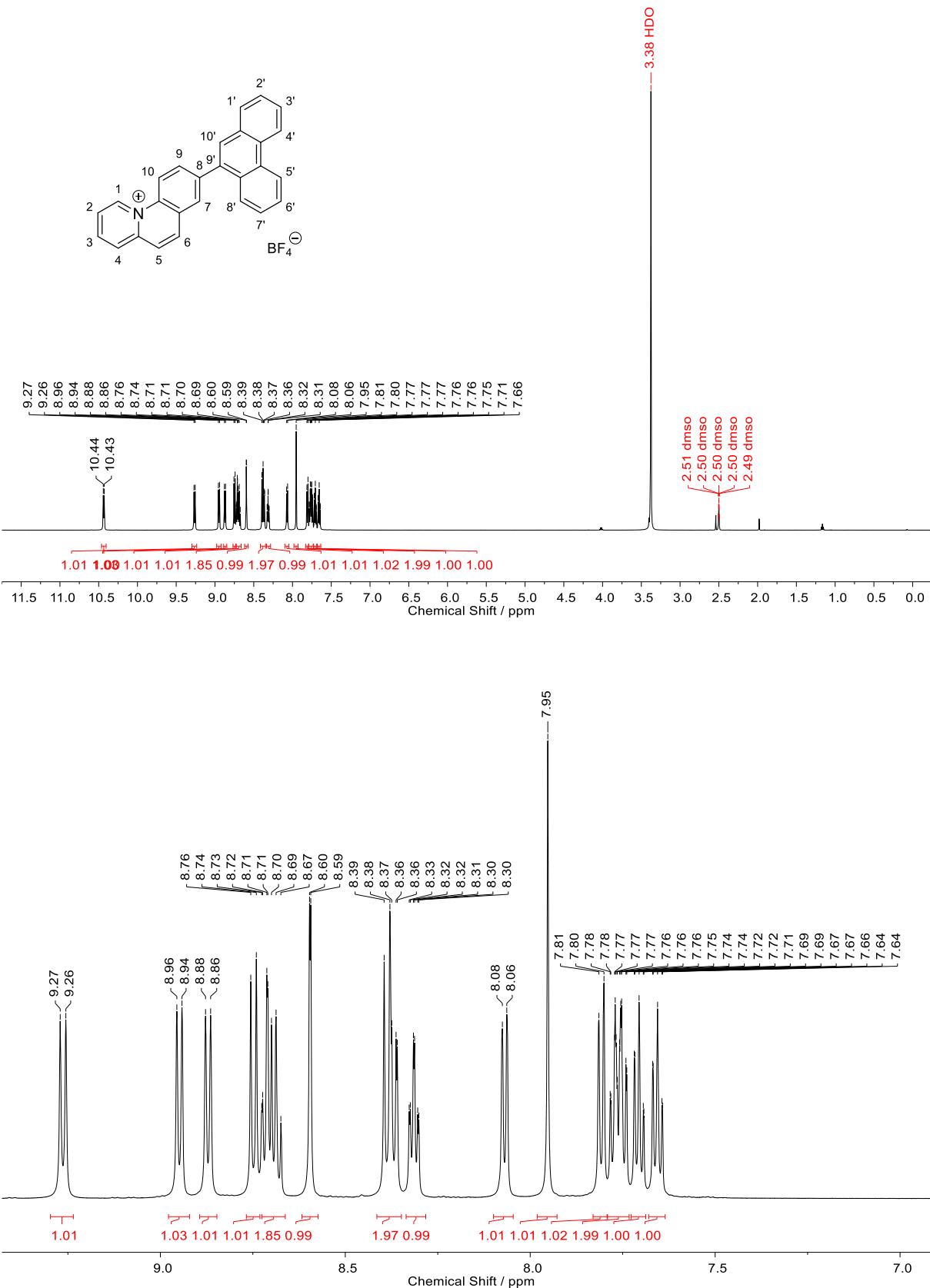


Figure S4. ^1H -NMR spectrum (600 MHz) of derivative **5** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

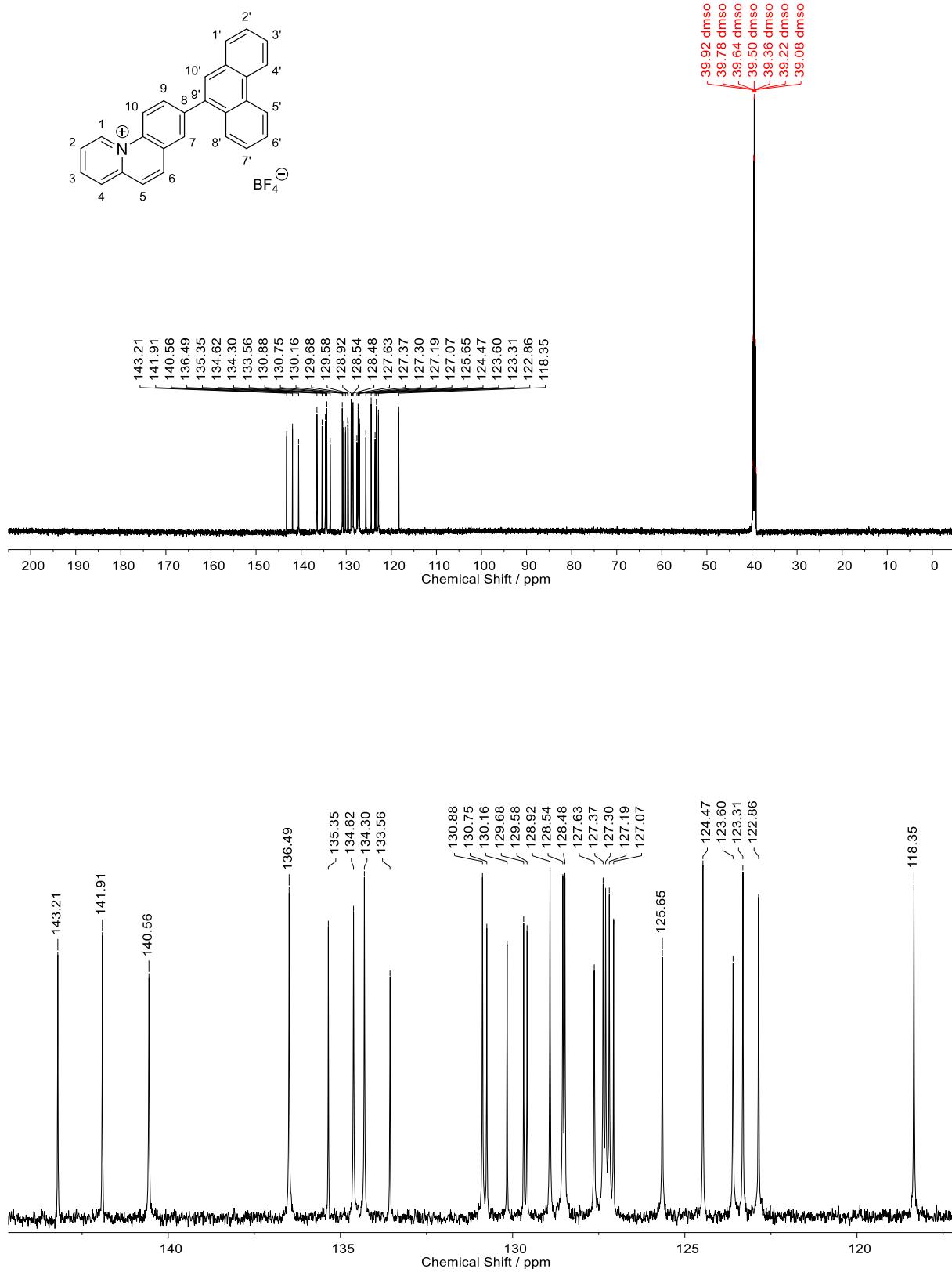


Figure S5. ^{13}C -NMR spectrum (150 MHz) of derivative **5** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

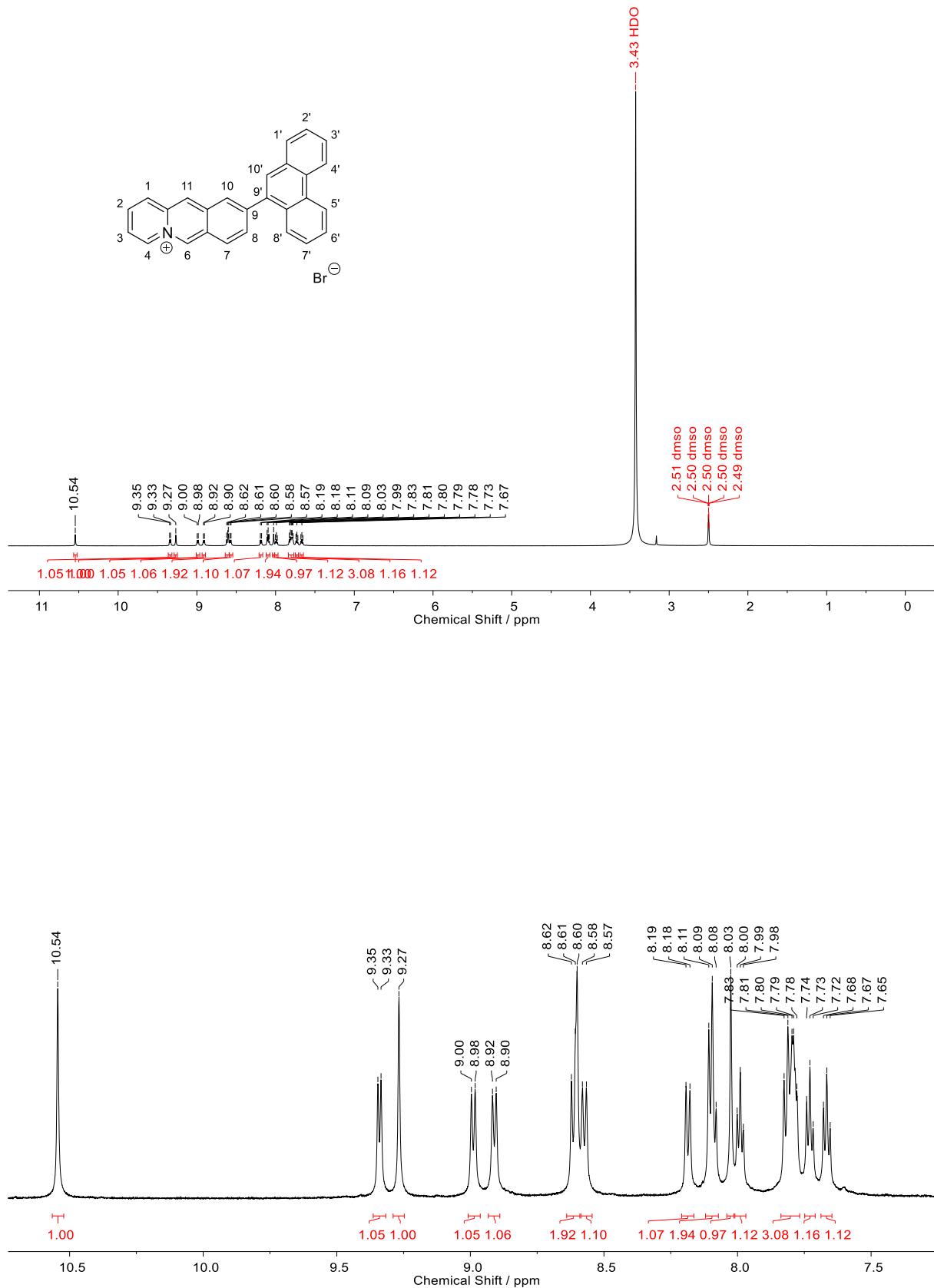


Figure S6. ^1H -NMR spectrum (600 MHz) of derivative **8** in $\text{DMSO}-d_6$ (top) with expansion (bottom).

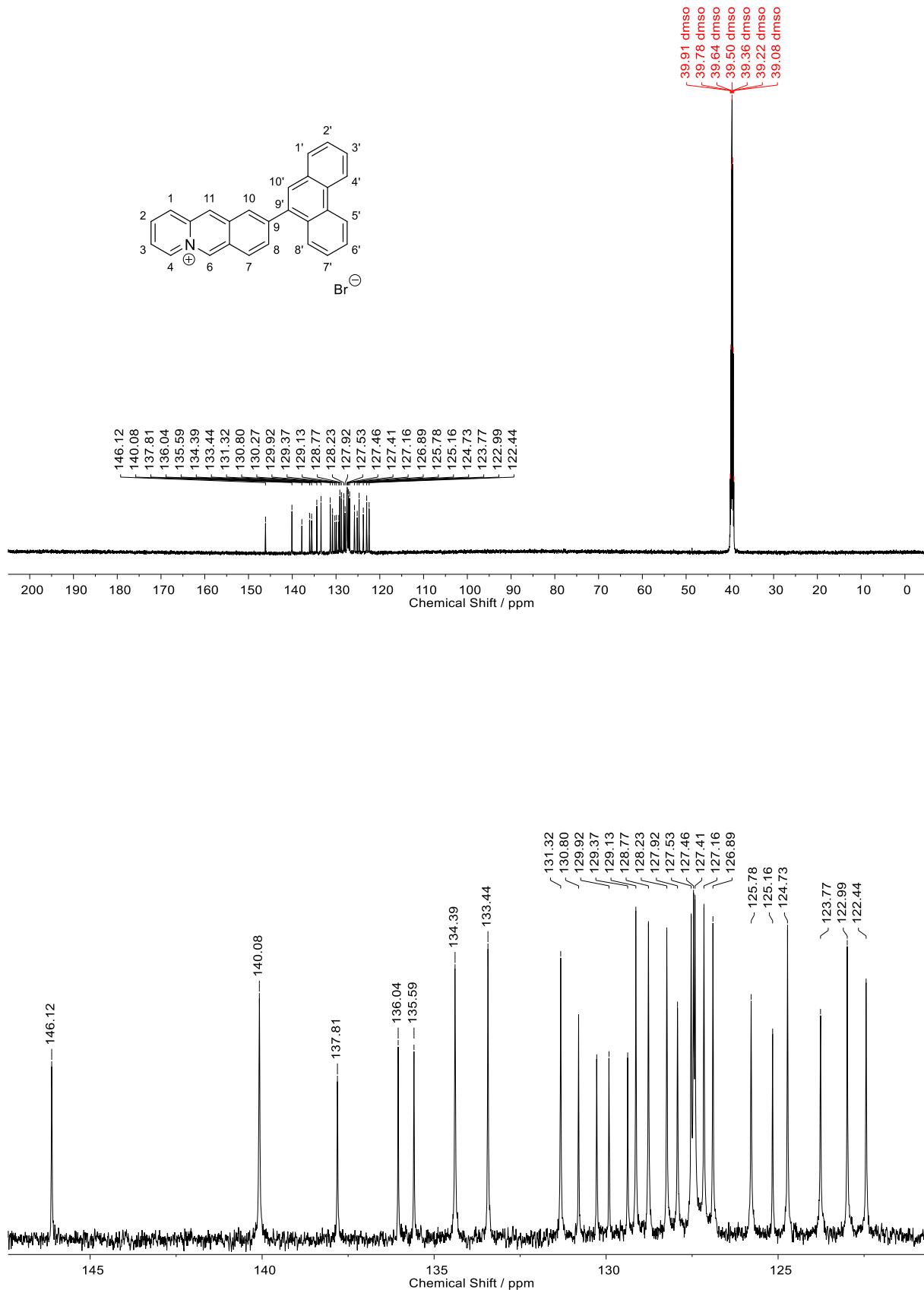


Figure S7. ^{13}C -NMR spectrum (150 MHz) of derivative **8** in $\text{DMSO}-d_6$ (top) with expansion (bottom).