Supporting Information

Tetracyclic thioxanthene derivatives: studies on fluorescence and antitumor activity

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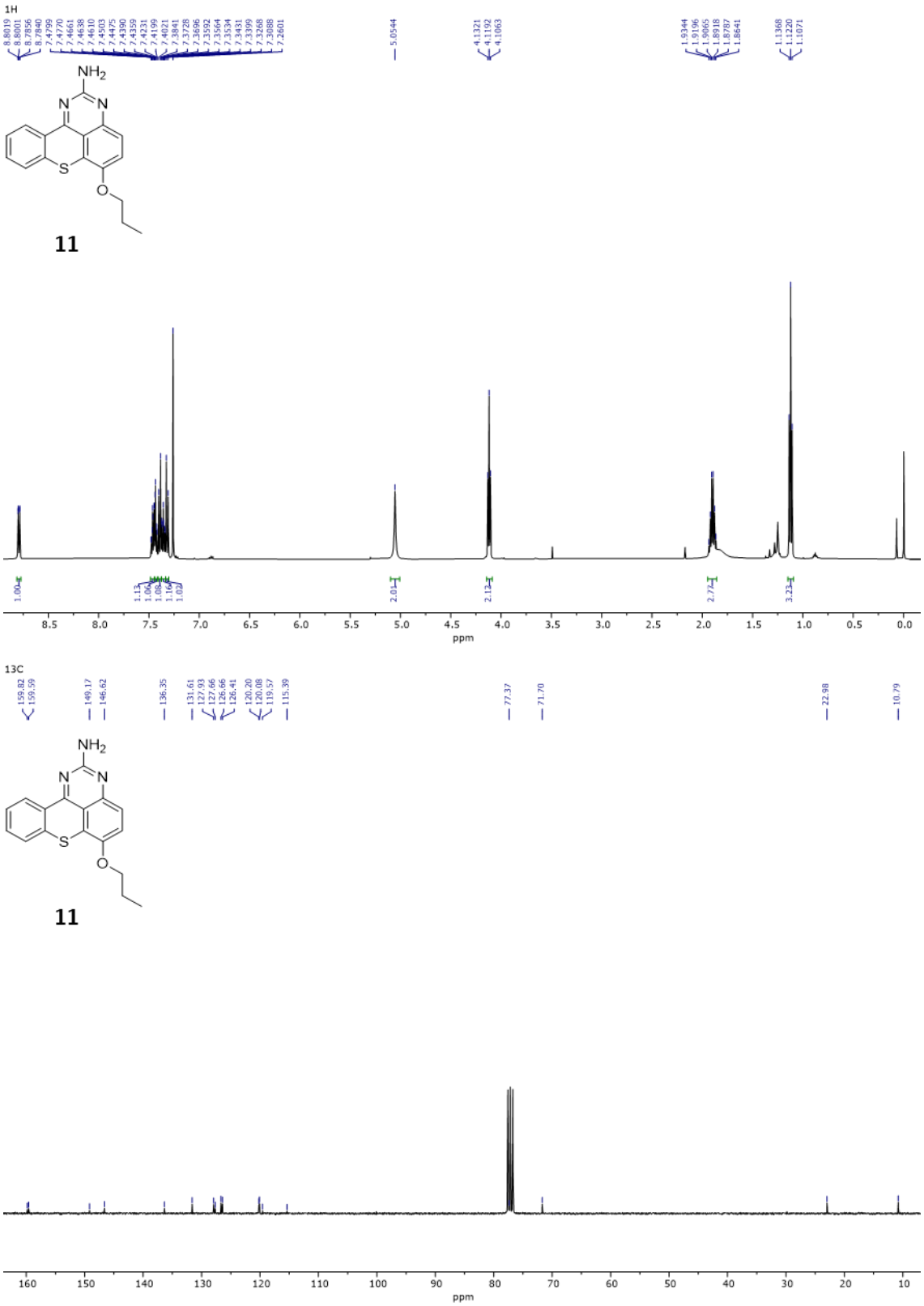
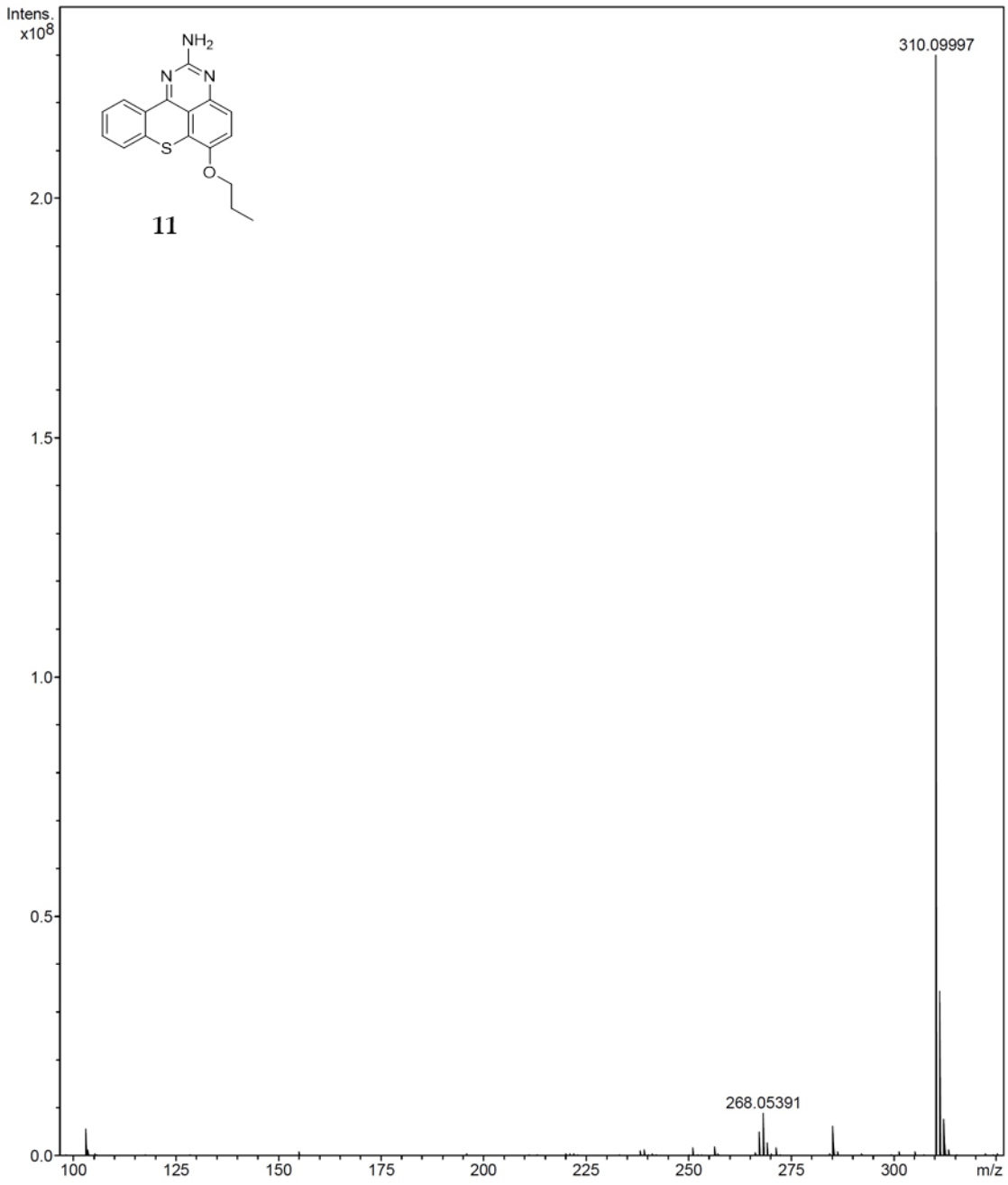


Figure S1. ^{1}H NMR (500.13 MHz, $CDCl_3$) and ^{13}C NMR (75.48 MHz, $CDCl_3$) for compound **11**.



Meas. m/z	Formula	m/z	err [ppm]
310.09997	$C_{17}H_{16}N_3OS$	310.10065	2.87

Figure S2. Electrospray ESI data for compound **11**.

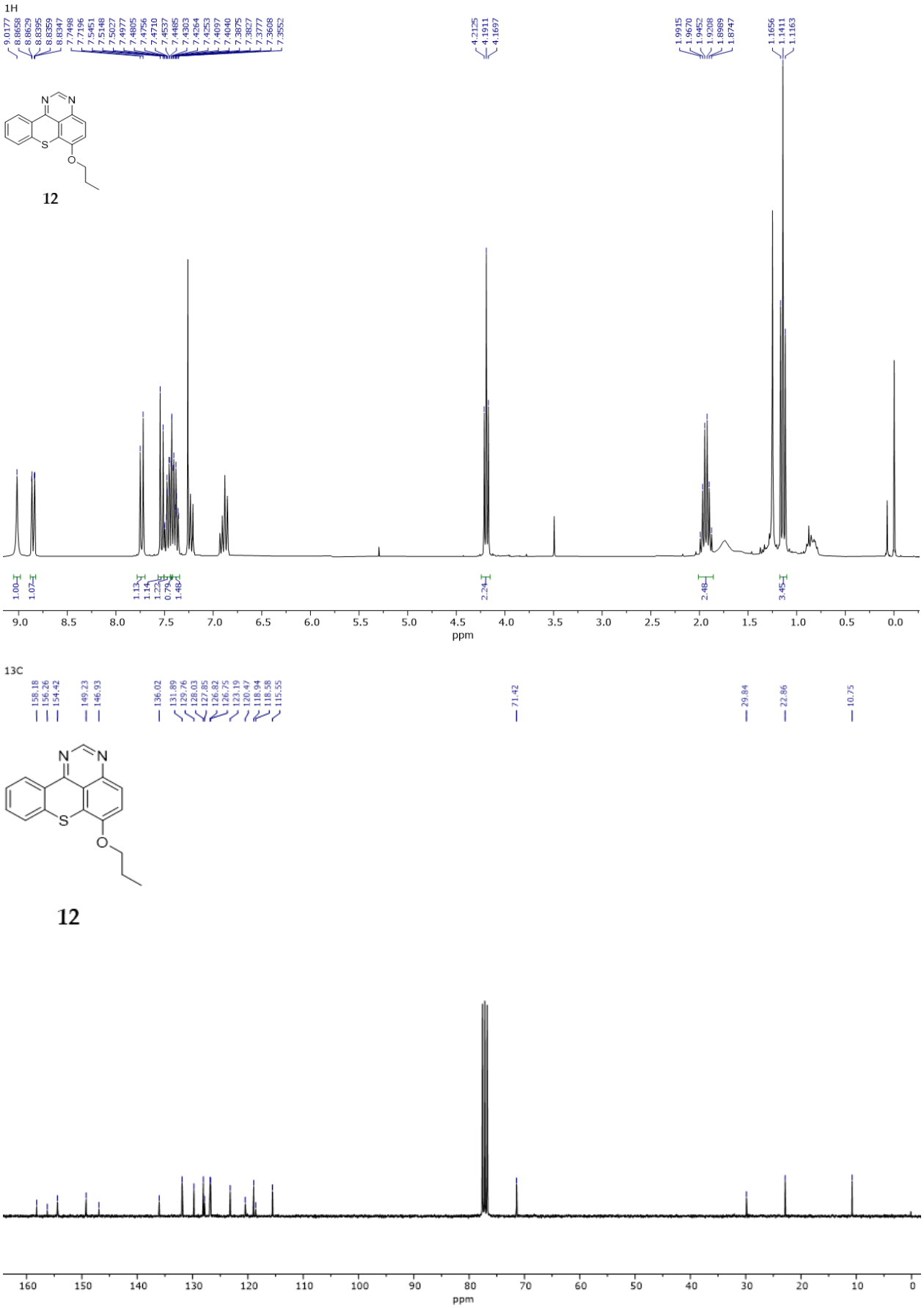
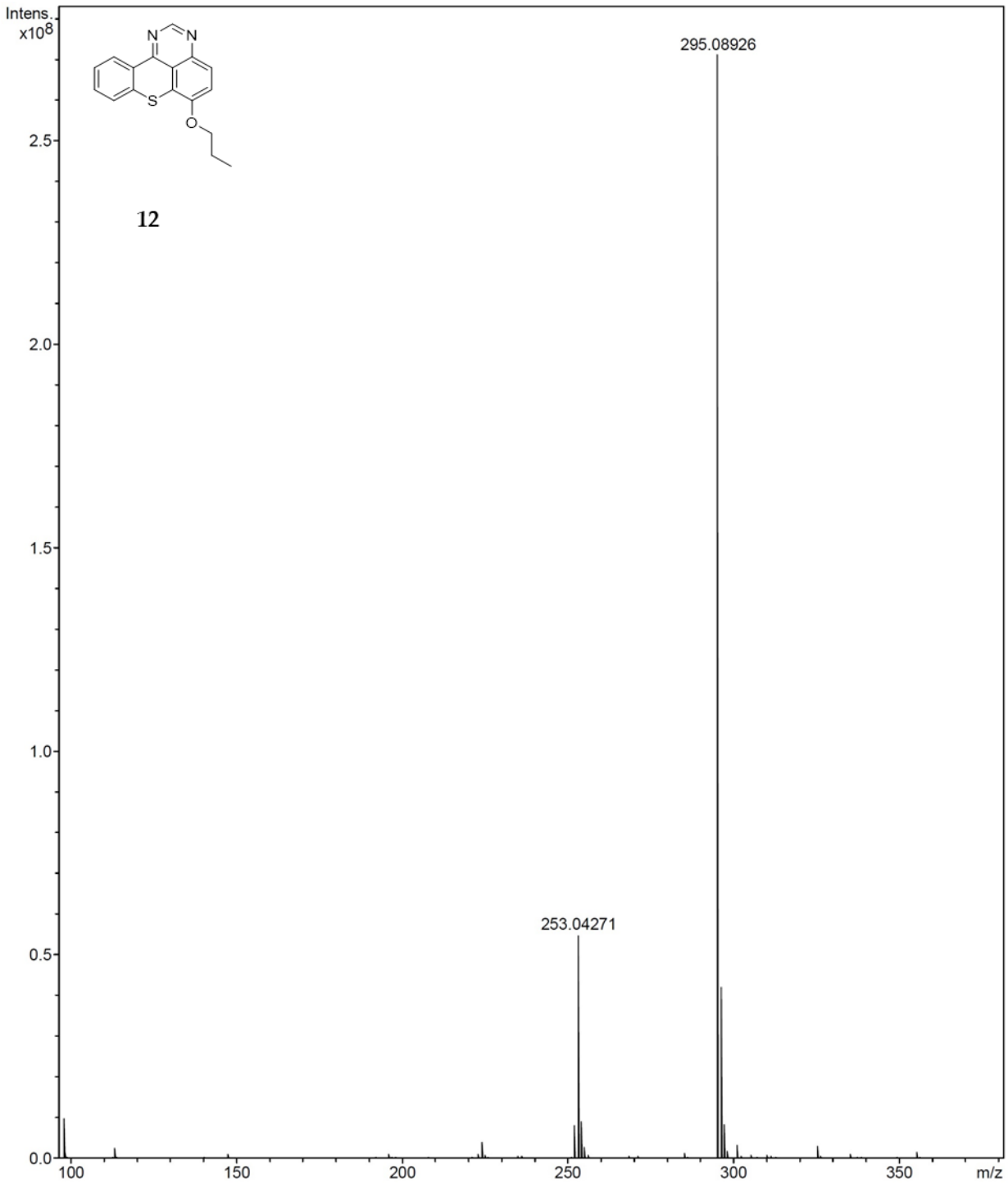


Figure S3. ^{1}H NMR (300.13 MHz, $CDCl_3$) and ^{13}C NMR (75.48 MHz, $CDCl_3$) for compound **12**.



Meas. m/z	Formula	m/z	err [ppm]
295.08926	$C_{17}H_{15}N_2OS$	295.08995	2.36

Figure S4. Electrospray ESI data for compound **12**.

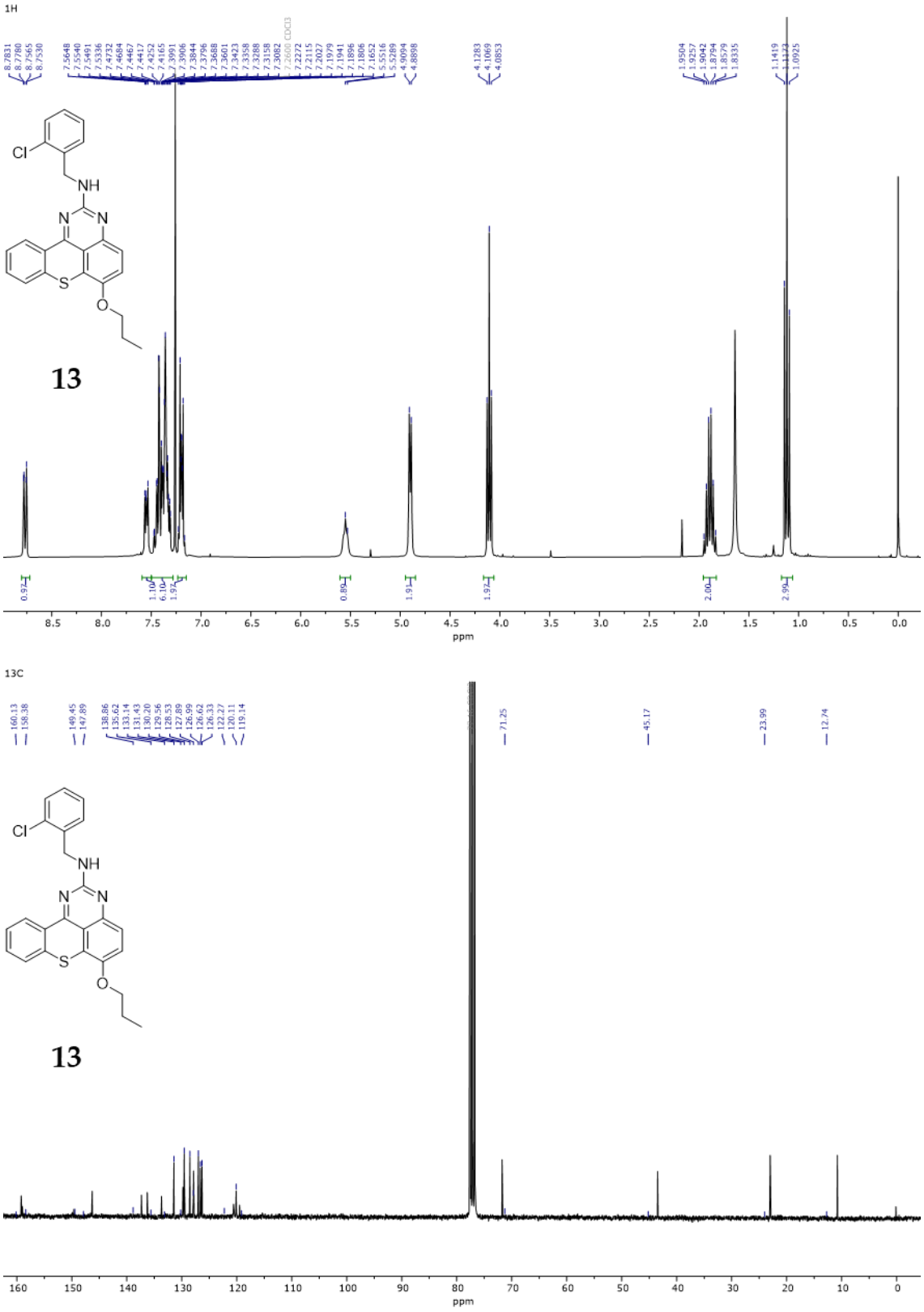
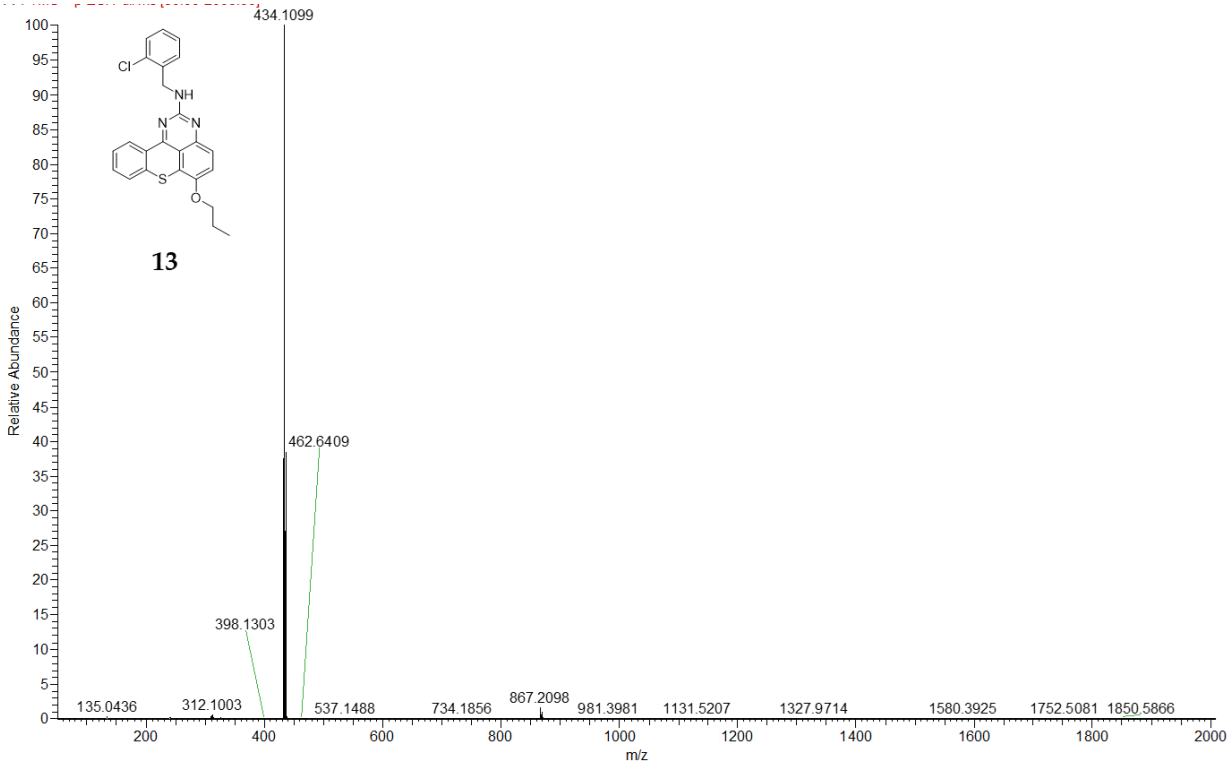


Figure S5. ^{1}H NMR (300.13 MHz, $CDCl_3$) and ^{13}C NMR (75.48 MHz, $CDCl_3$) for compound **13**.



Meas. m/z	Formula	m/z	err [ppm]
434.1099	$C_{24}H_{20}ClN_3OS$	434.1094	1.1518

Figure S6. Electrospray ESI data for compound **13**.

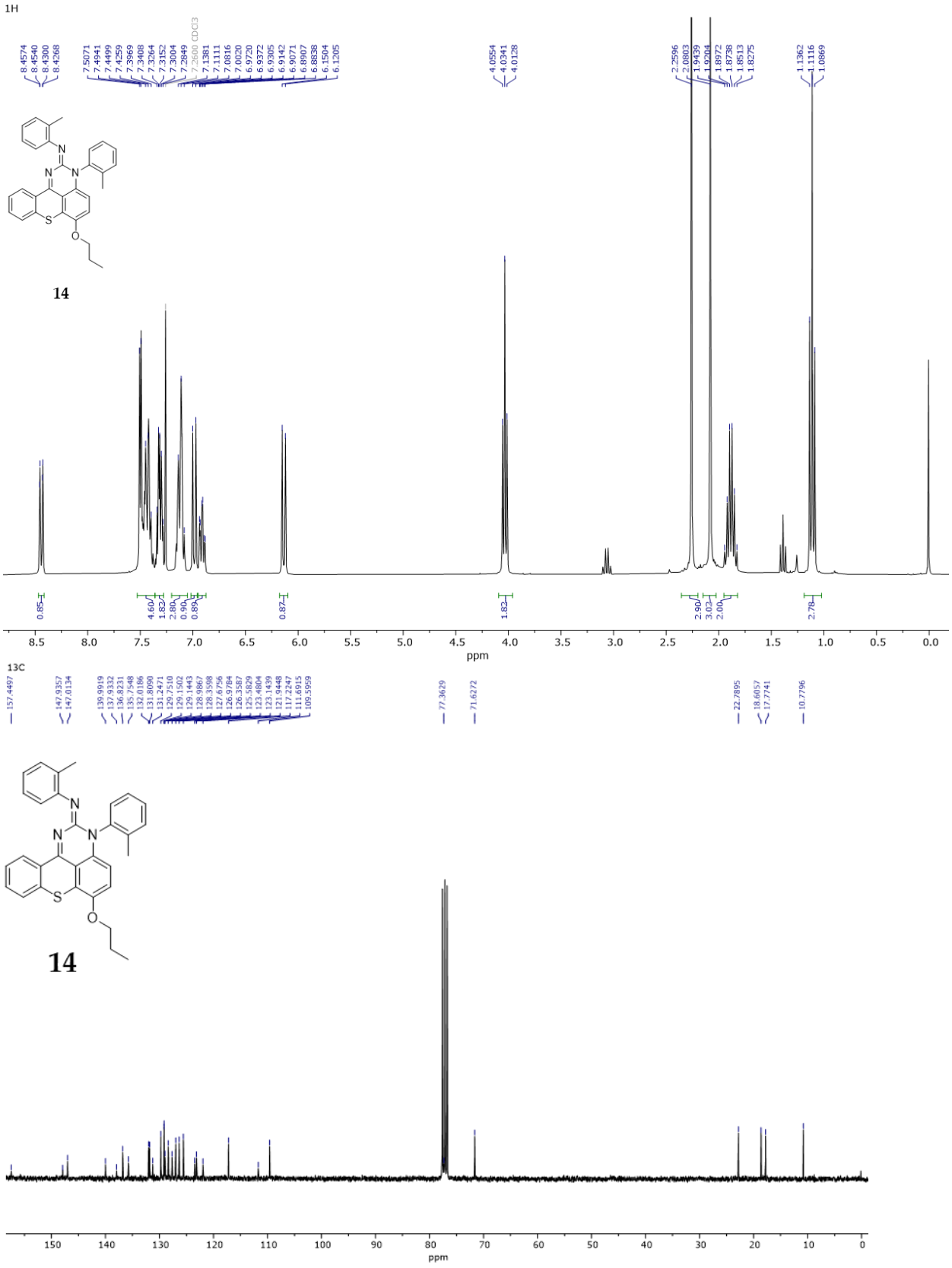
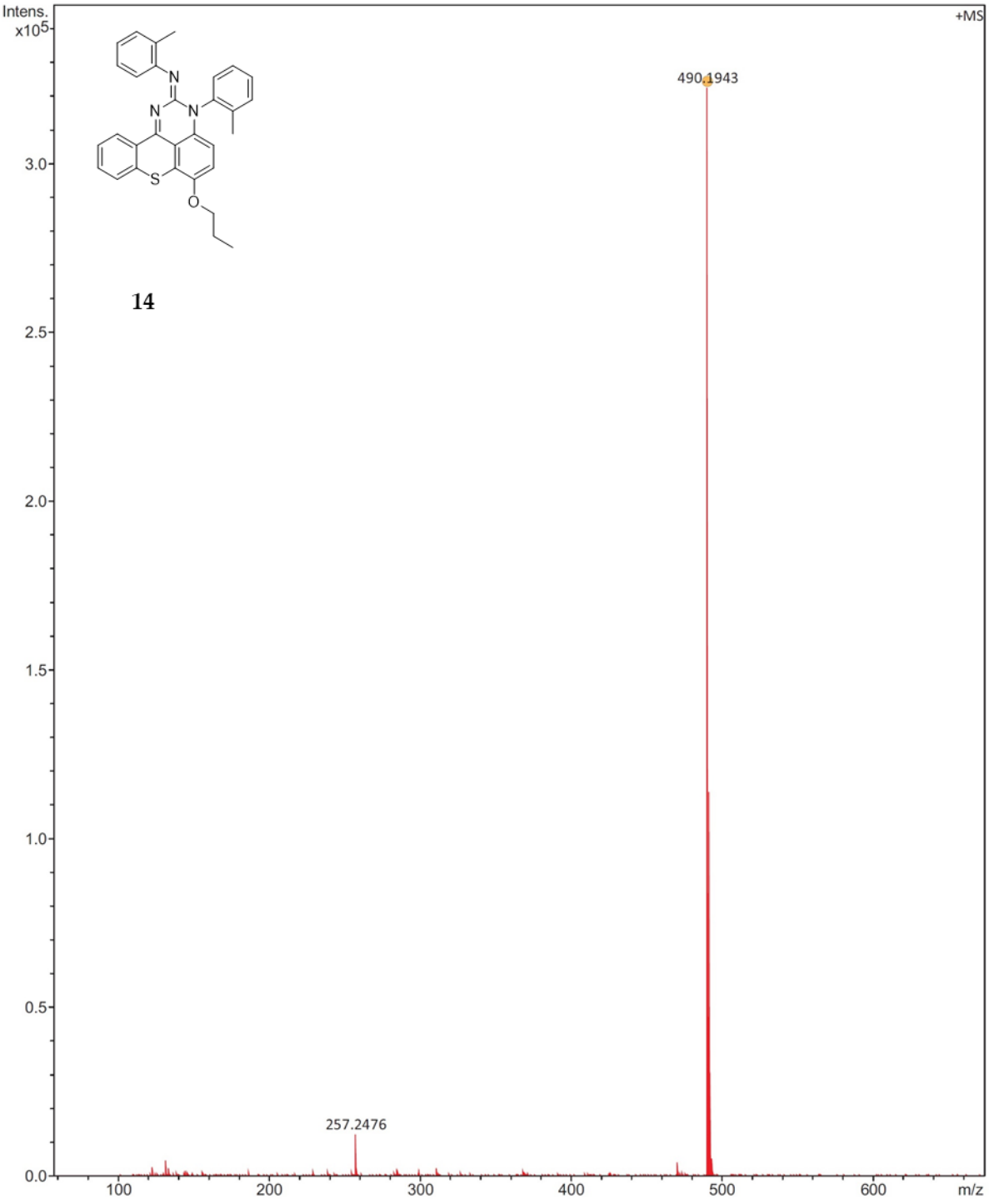


Figure S7. ^{1}H NMR (300.13 MHz, $CDCl_3$) and ^{13}C NMR (75.48 MHz, $CDCl_3$) for compound **14**.



Meas. m/z	Formula	m/z	err [ppm]
490.1943	$C_{31}H_{28}N_3OS$	490.1948	1.0

Figure S8. Electrospray ESI data for compound **14**.