

Electronic Supplementary Informations

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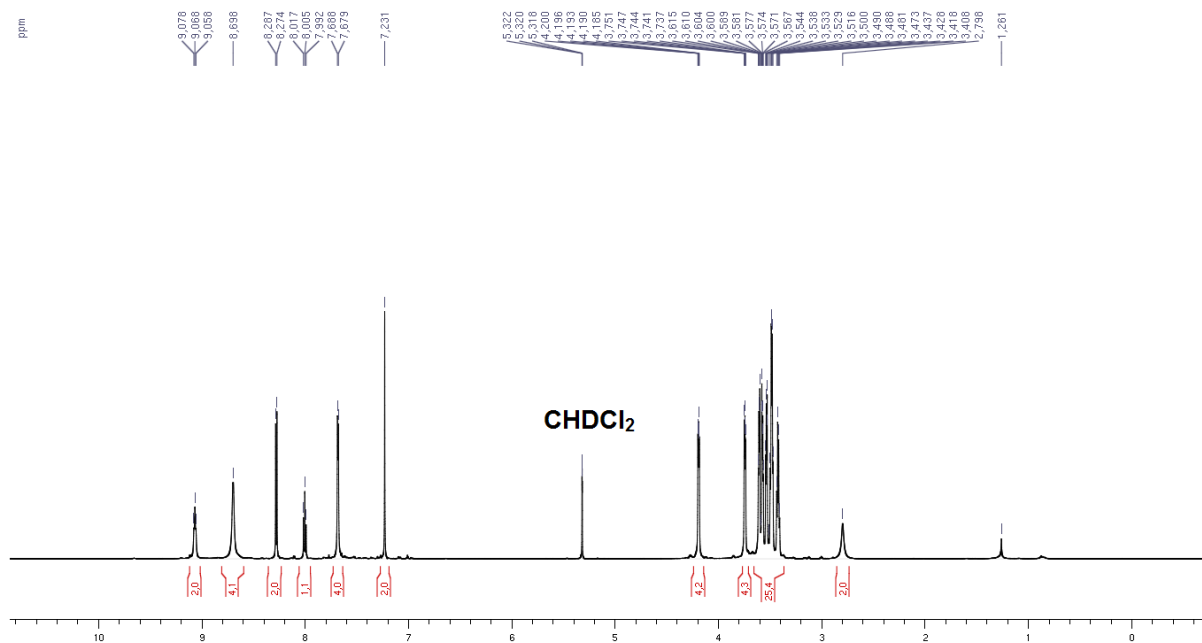
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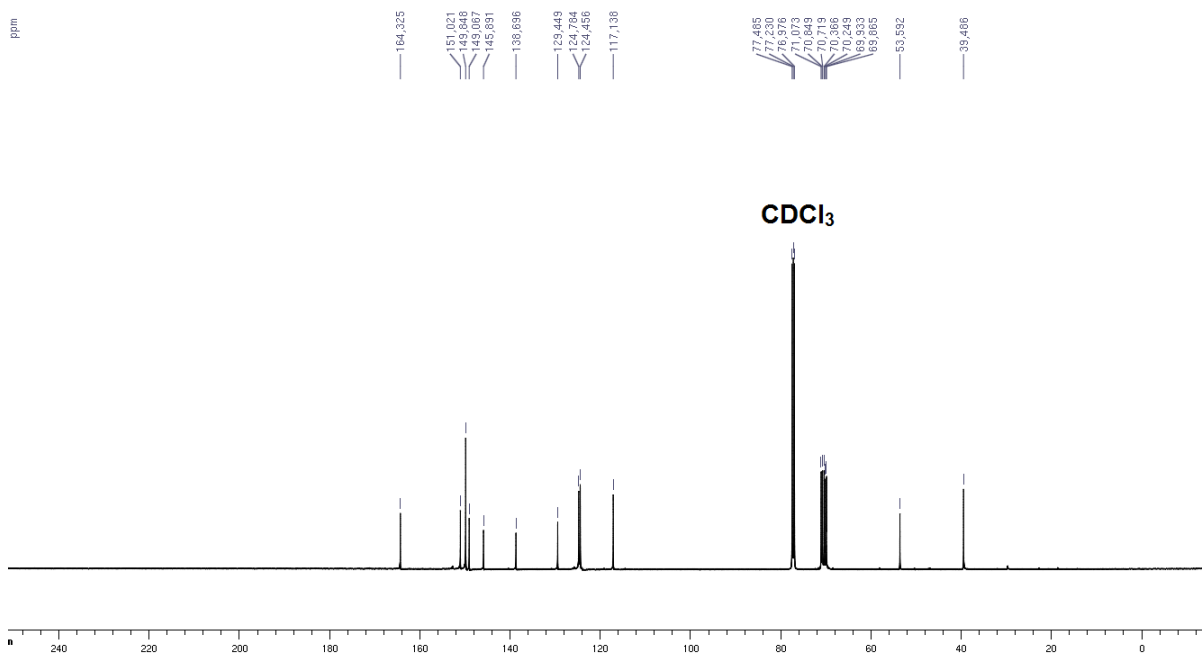
1D-NMR ^1H and ^{13}C spectra and mass spectra of the compounds

Compound 1

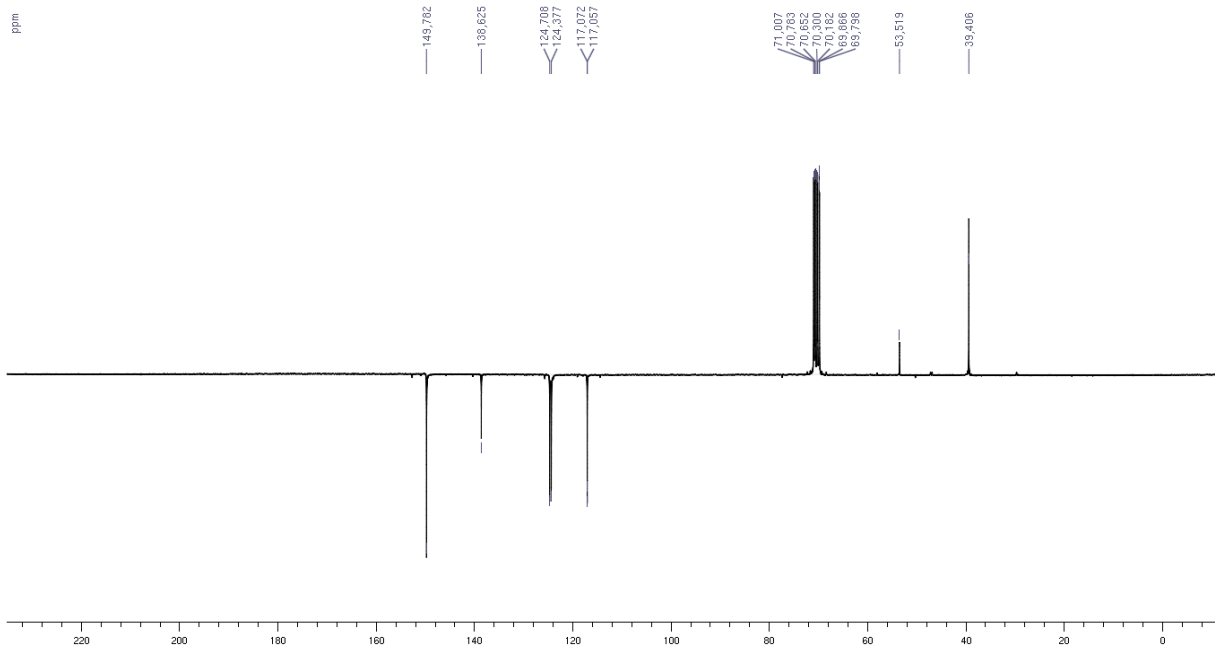
$^1\text{H-NMR}$ (CD_2Cl_2 , 298 K, 600 MHz)



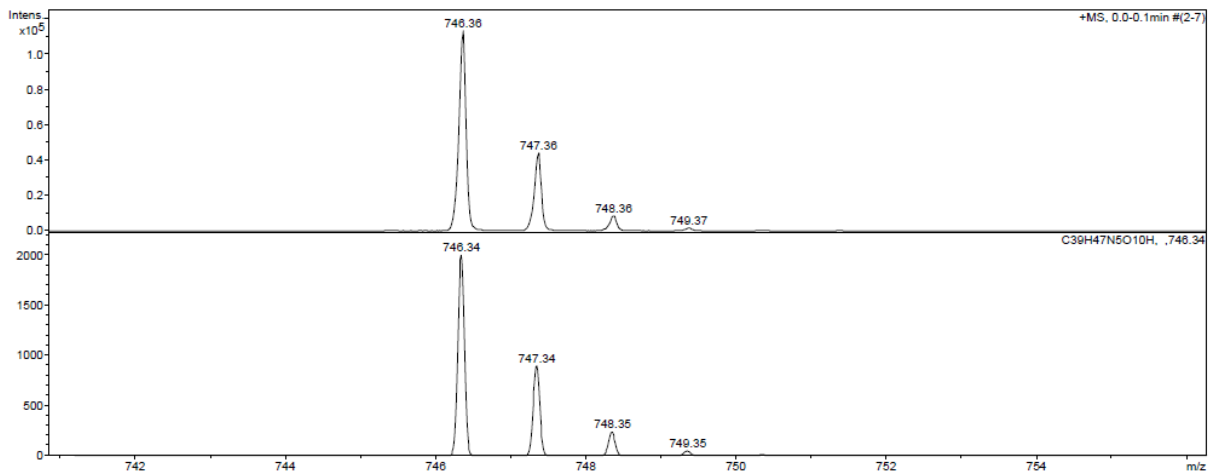
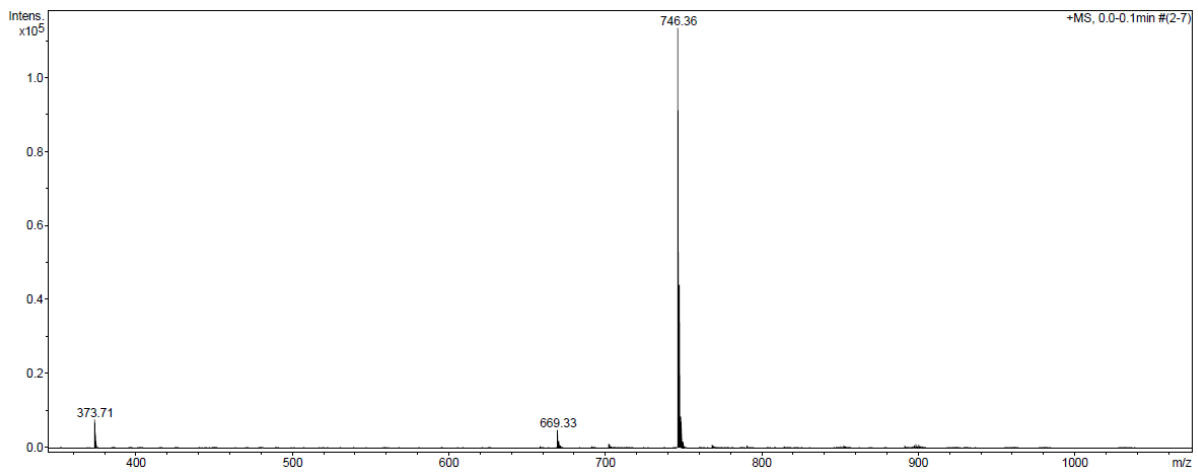
$^{13}\text{C-NMR}$ (CDCl_3 , 298 K, 125 MHz)



DEPT ^{13}C -NMR (CDCl_3 , 298 K, 125 MHz)

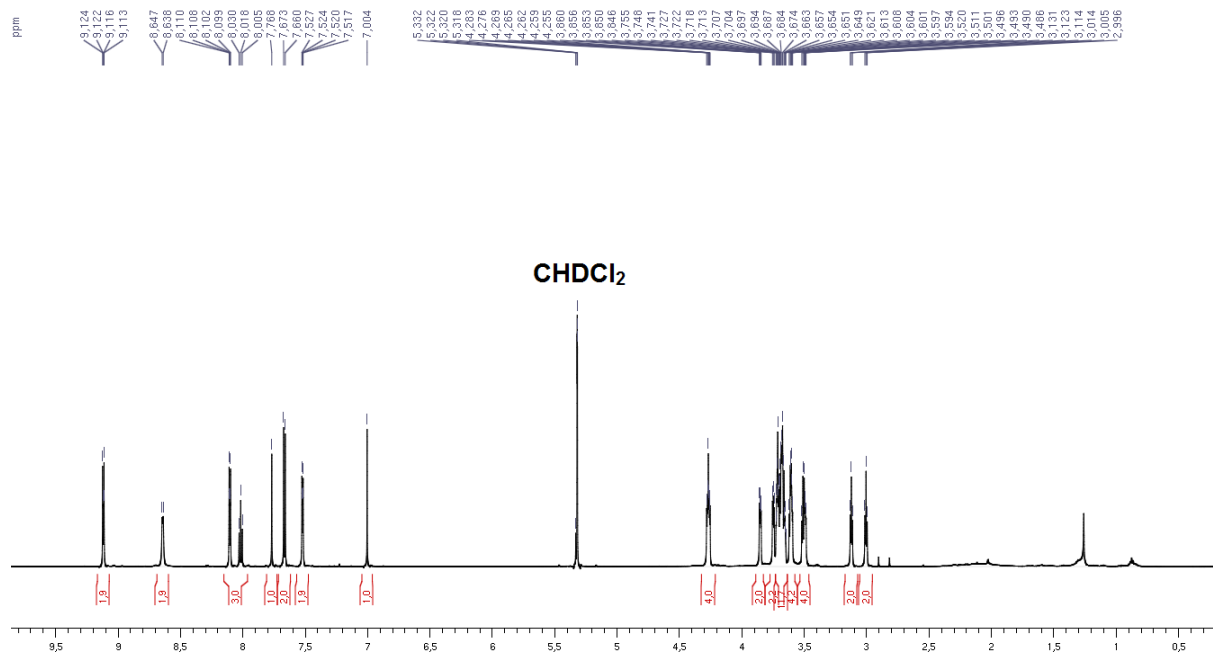


ESI MS

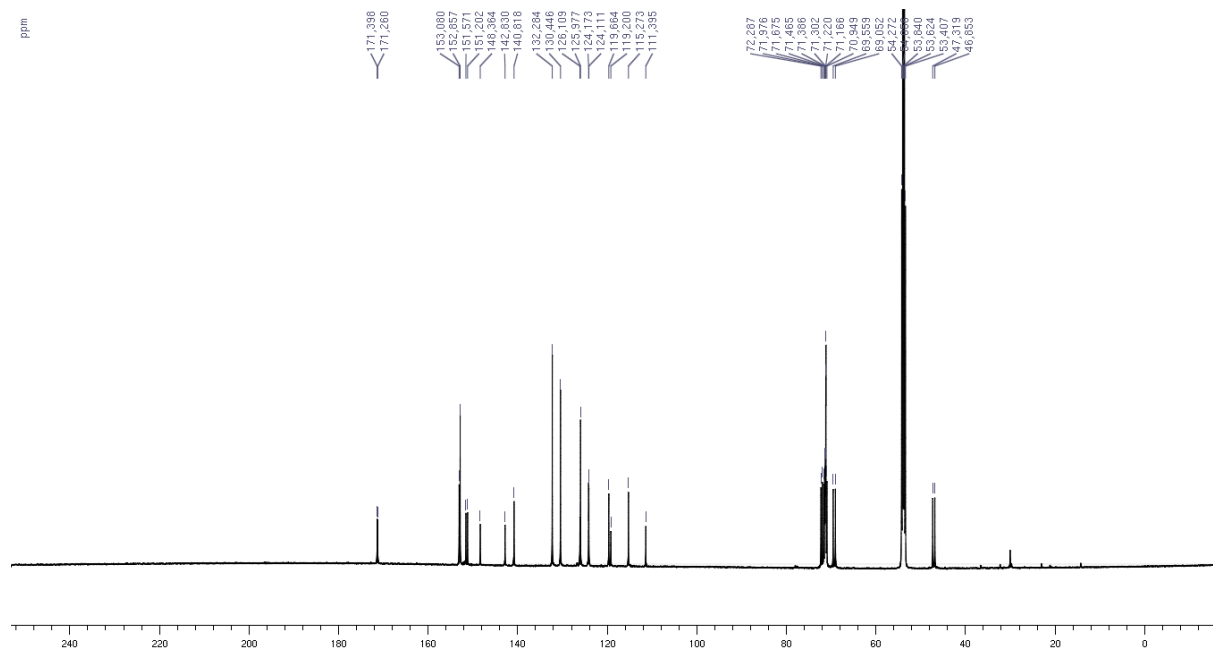


Compound 1-Pd

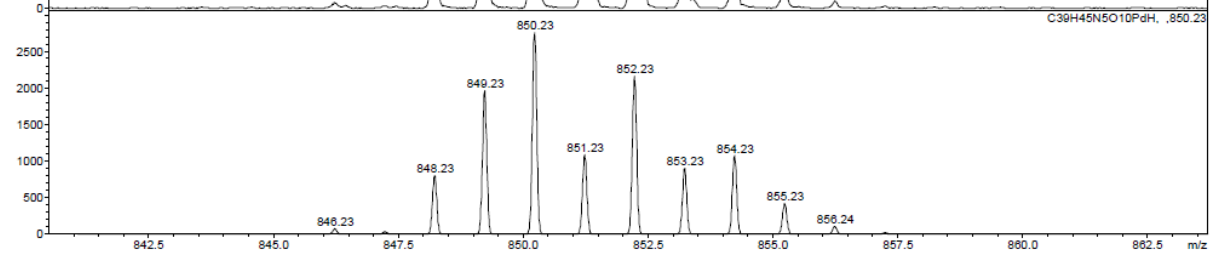
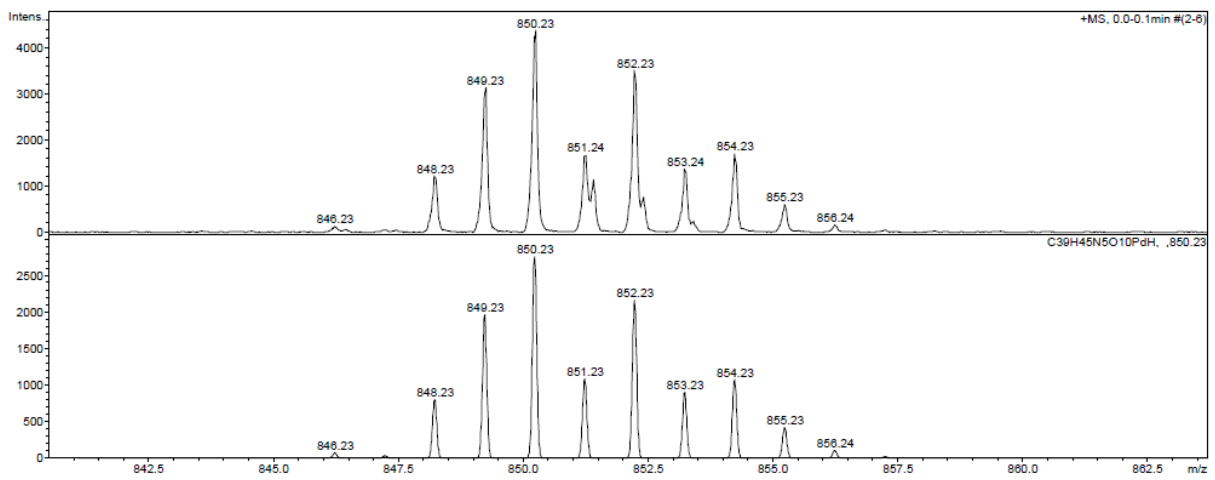
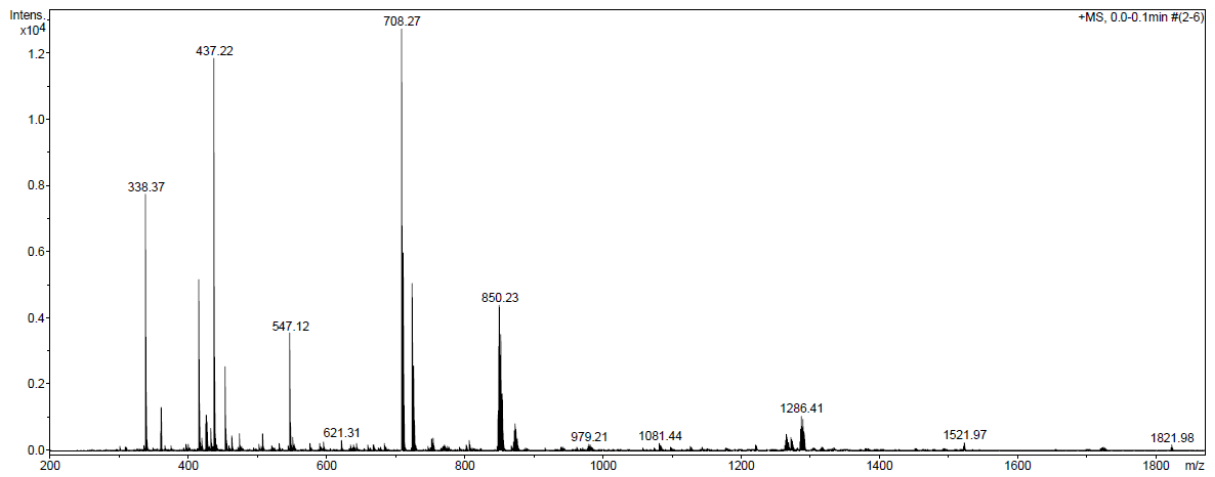
$^1\text{H-NMR}$ (CD_2Cl_2 , 298 K, 600 MHz)



$^{13}\text{C-NMR}$ (CD_2Cl_2 , 298 K, 125 MHz)



ESI MS



Luminescence spectra

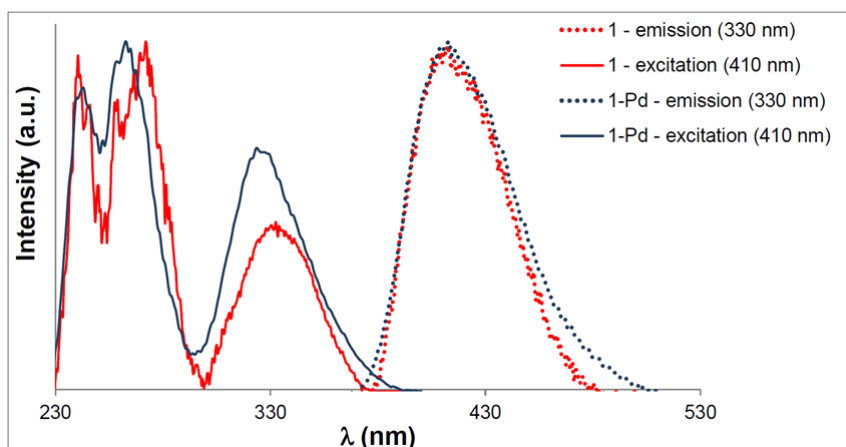


Figure S1 Normalized emission and excitation spectra (CH_2Cl_2 , 298 K, aerated) for turnstiles **1** and **1-Pd**. The number inside of the brackets indicates either the excitation wavelength (for the emission spectra) or the reading wavelength (for the excitation spectra).

| | $\lambda_{\text{absorption}}$ - nm | | | $\lambda_{\text{excitation}}$ - nm | | | $\lambda_{\text{emission}}$ - nm | ρ | τ |
|-------------|------------------------------------|-----|-----|------------------------------------|-----|-----|----------------------------------|--------|----------------|
| 1 | 235 | 274 | 335 | 240 | 273 | 334 | 413 | 0,78 | 3,6 ns |
| 1-Pd | 249 | 282 | 348 | 243 | 263 | 326 | 413 | 0,006 | 3,6 ns ; 88 ps |

Table S2 Summary of the UV-visible absorption, excitation and emission maxima, quantum yields and lifetimes measured.