Electronic Supplementary Material (ESI) for Dalton Transactions

Supporting Information

Cyclopalladated Complexes of 4-Aryl-2,1,3-benzothiadiazoles: New emitters in solution at room temperature

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Excitation Spectra of the complexes

Excitation spectra were measured with a Shimadzu spectrofluorometer RF5301. The observation wavelengths for the excitation spectra were used according to the emission maxima in each spectrum.

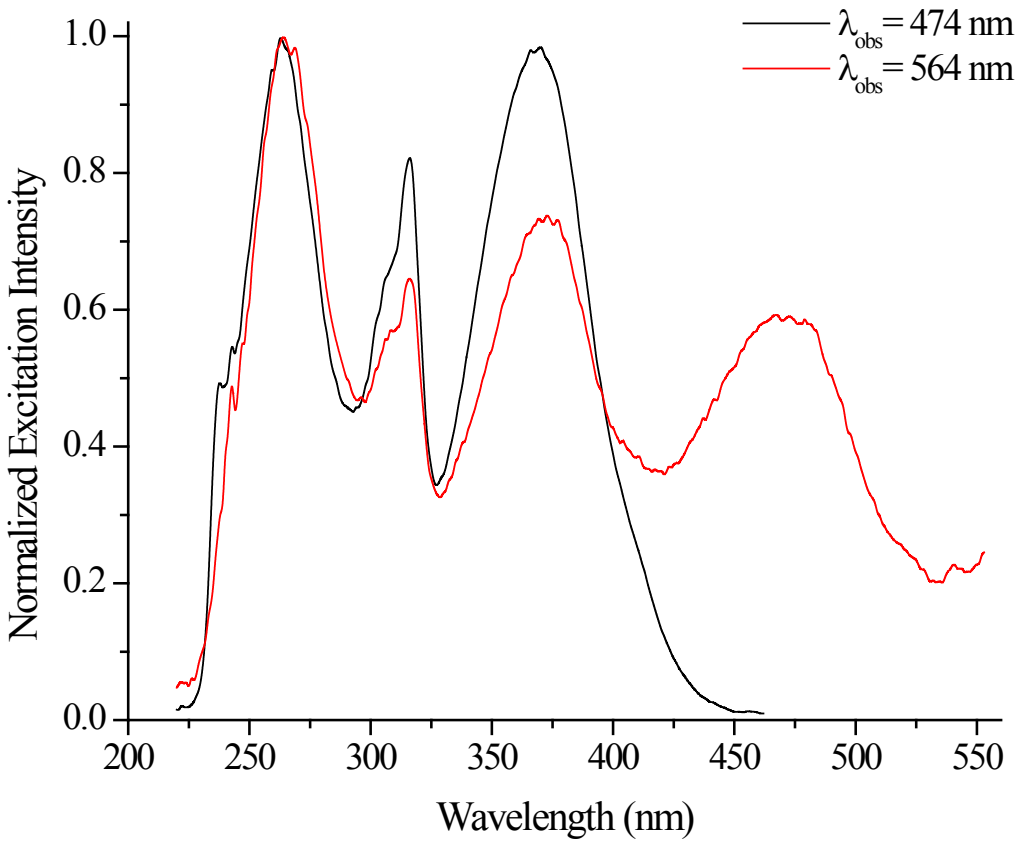

Figure S1. Excitation spectra at room temperature of the complex **2a** in dichloromethane.

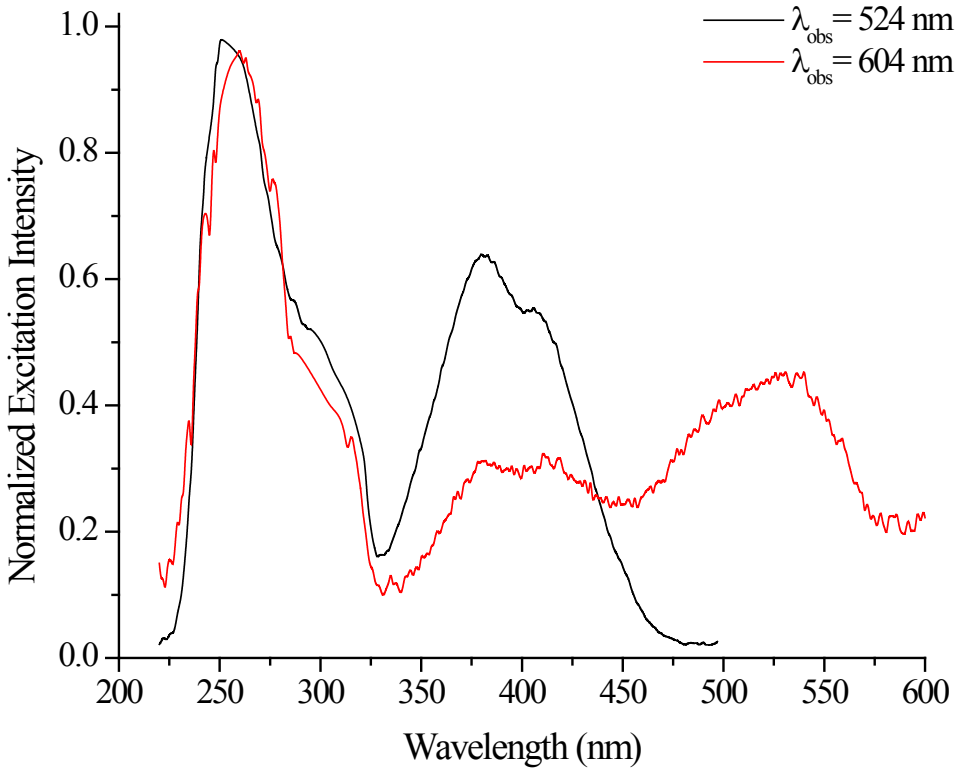

Figure S2. Excitation spectra at room temperature of the complex **2b** in dichloromethane.

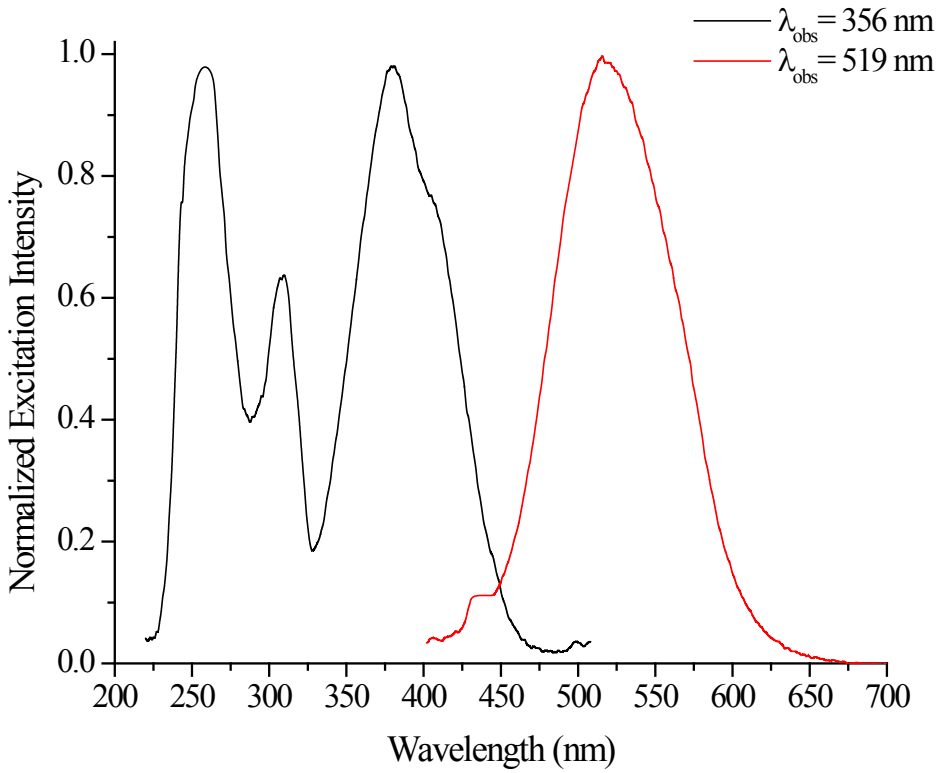

Figure S3. Excitation spectra at room temperature of the complex **2c** in dichloromethane.

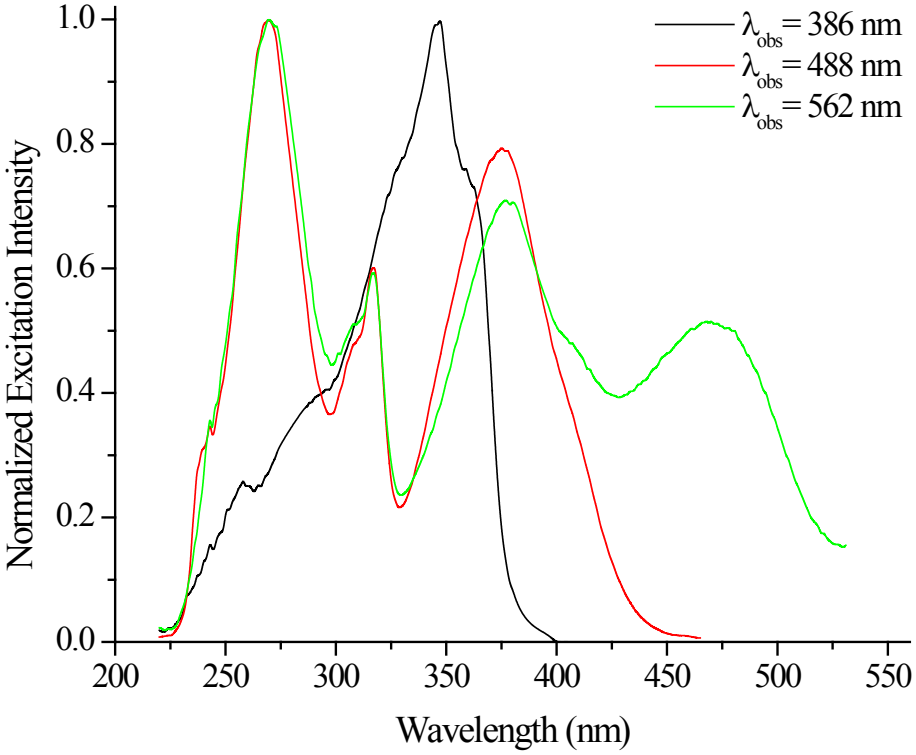

Figure S4. Excitation spectra at room temperature of the complex **3a** in dichloromethane.

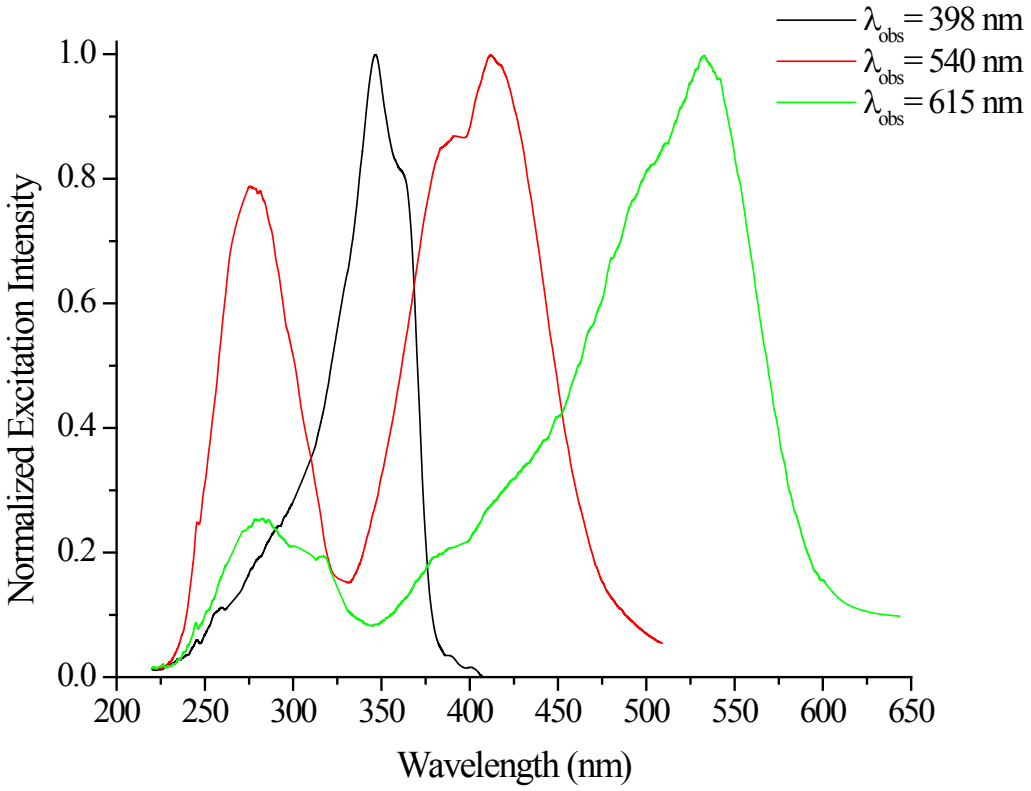

Figure S5. Excitation spectra at room temperature of the complex **3b** in dichloromethane.

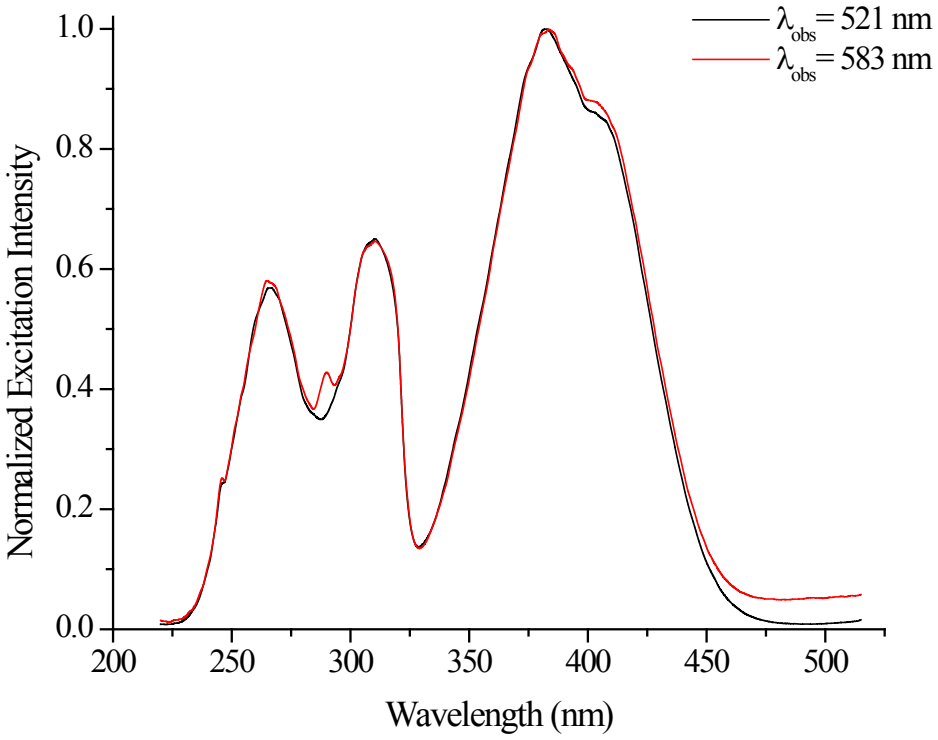

Figure S6. Excitation spectra at room temperature of the complex **3c** in dichloromethane.

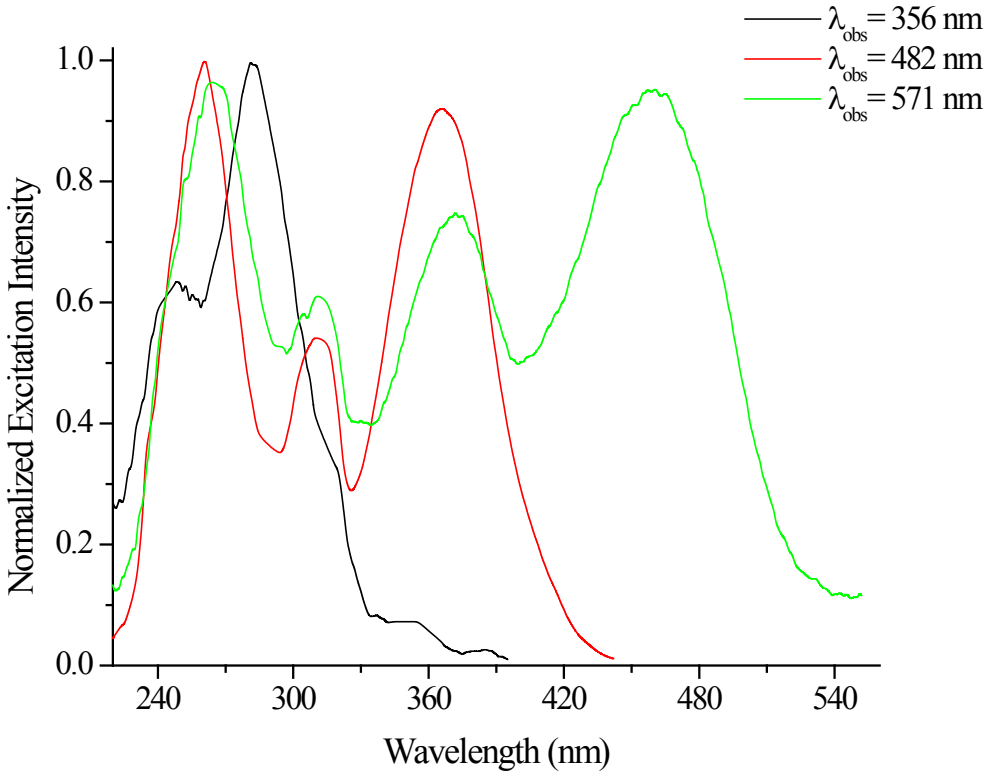

Figure S7. Excitation spectra at room temperature of the complex **2a** in acetonitrile.

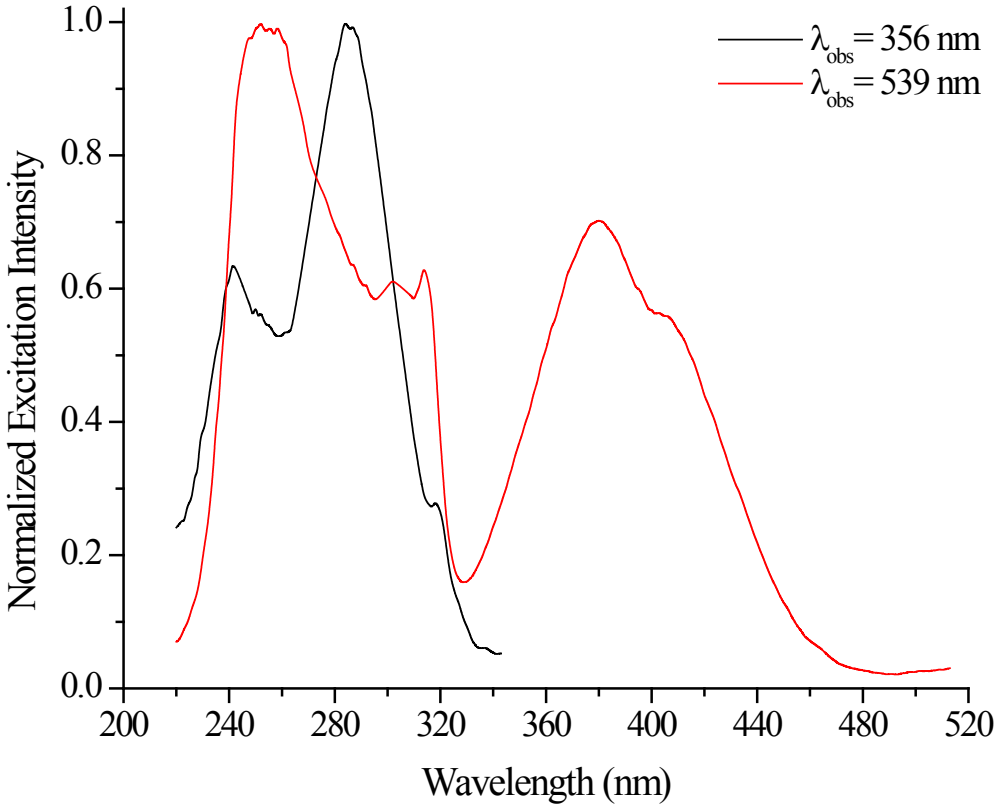

Figure S8. Excitation spectra at room temperature of the complex **2b** in acetonitrile.

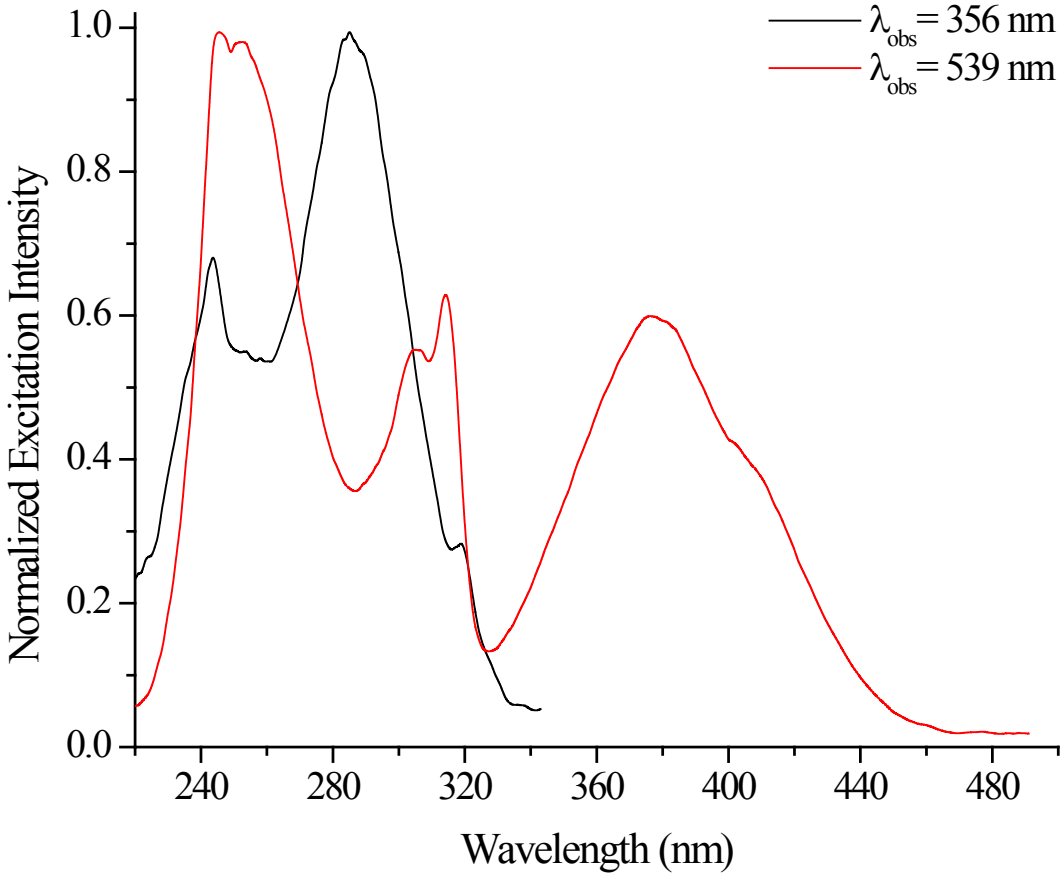

Figure S9. Excitation spectra at room temperature of the complex **2c** in acetonitrile.

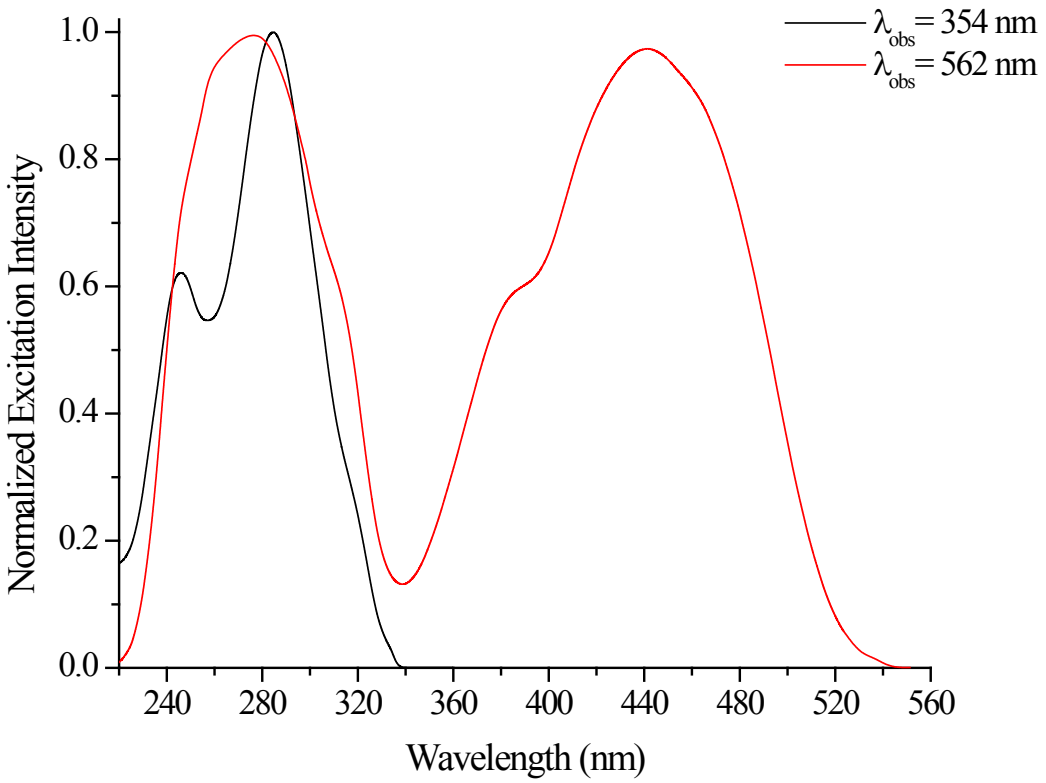

Figure S10. Excitation spectra at room temperature of the complex **3a** in acetonitrile.

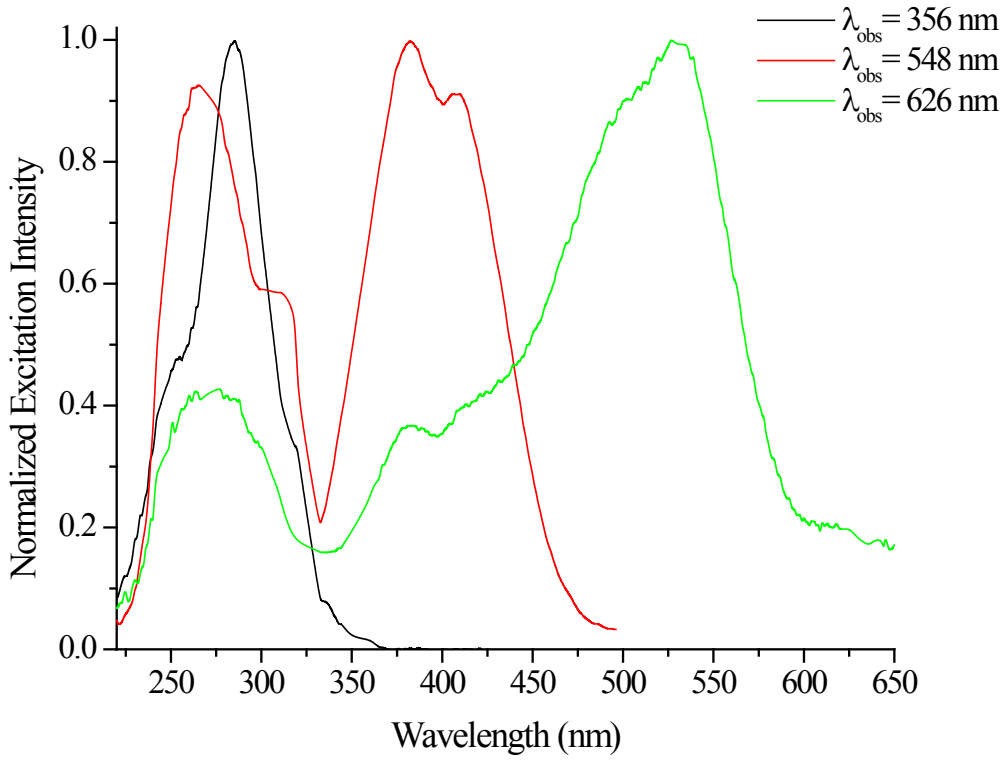

Figure S11. Excitation spectra at room temperature of the complex **3b** in acetonitrile.

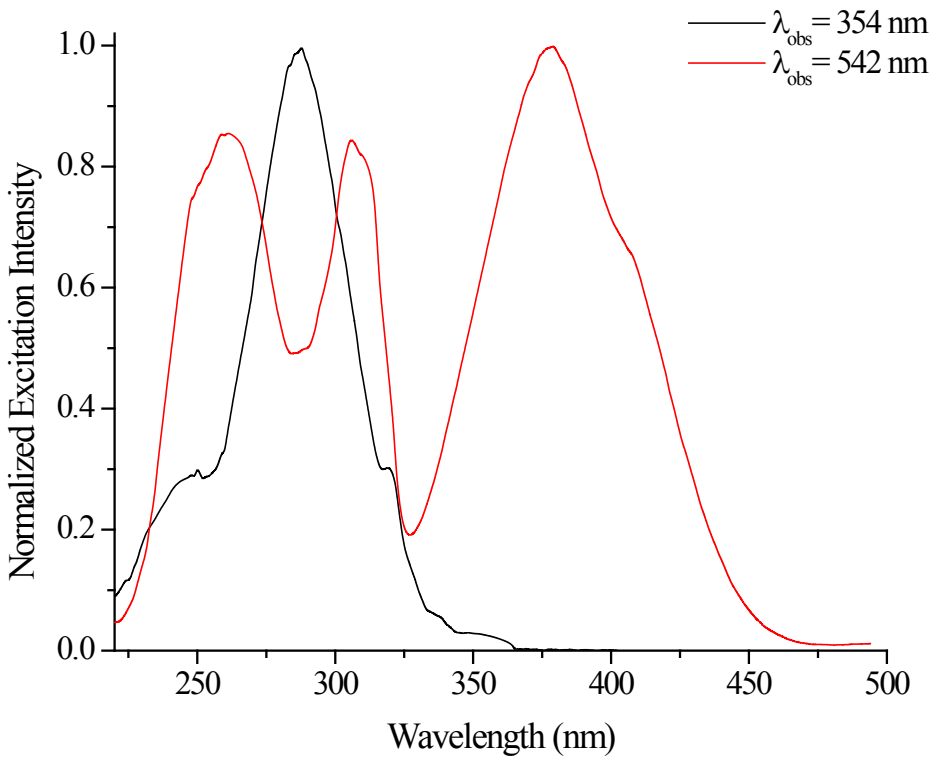

Figure S12. Excitation spectra at room temperature of the complex **3c** in acetonitrile.

Fluorescence Quantum Yields Results

Table S1. Fluorescence quantum yields of the monomeric **2a-c** and dimeric **3a-c** Pd complexes.

	Fluorescence Quantum Yield	
Pd Complexes	$(\phi_{fl})^a$	$(\phi_{fl})^b$
2a	0.008	0.005
2b	0.011	0.008
2c	0.005	0.004
3a	0.030	0.020
3b	0.017	0.010
3c	0.029	0.015

[a] Rhodamine 6G in ethanol as quantum yield standard.

[b] Rhodamine 110 in ethanol as quantum yield standard.