

AMPED: a new platform for picolinate based luminescent lanthanide chelates

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Supplementary Information

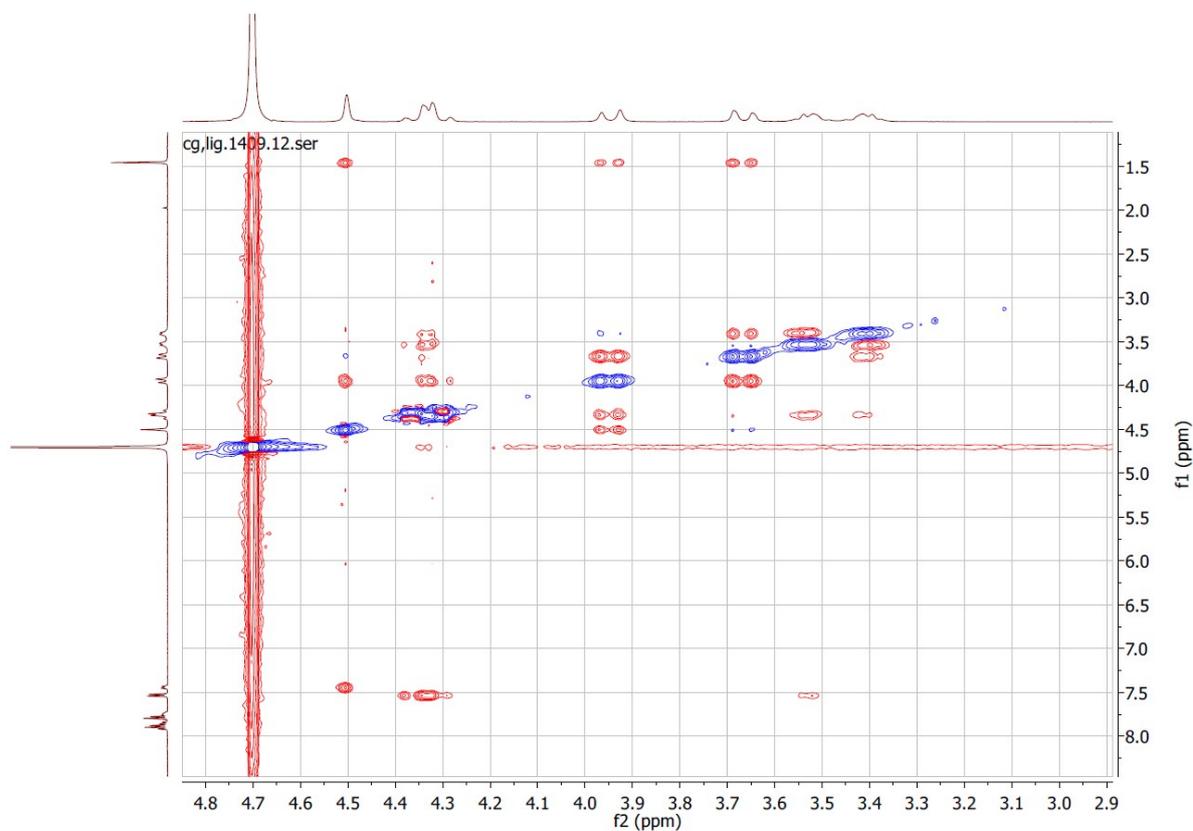


Figure S1. ¹H-¹H NOESY spectrum of LH₃ in D₂O (25°C, 400 MHz).

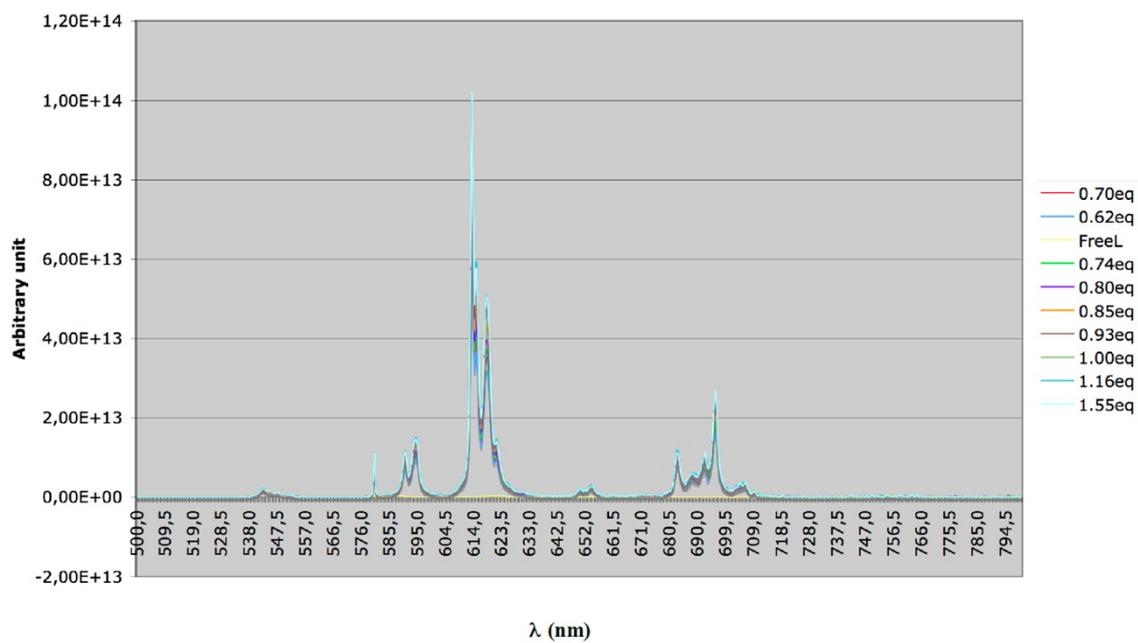


Figure S2. Evolution of the emission spectra of a solution of L upon addition of $\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$ ($\lambda_{\text{exc}} = 265$ nm, TRIS/HCl, 0.01 M, pH = 7.4). Inset: Evolution of the emitted intensity at 615 nm.

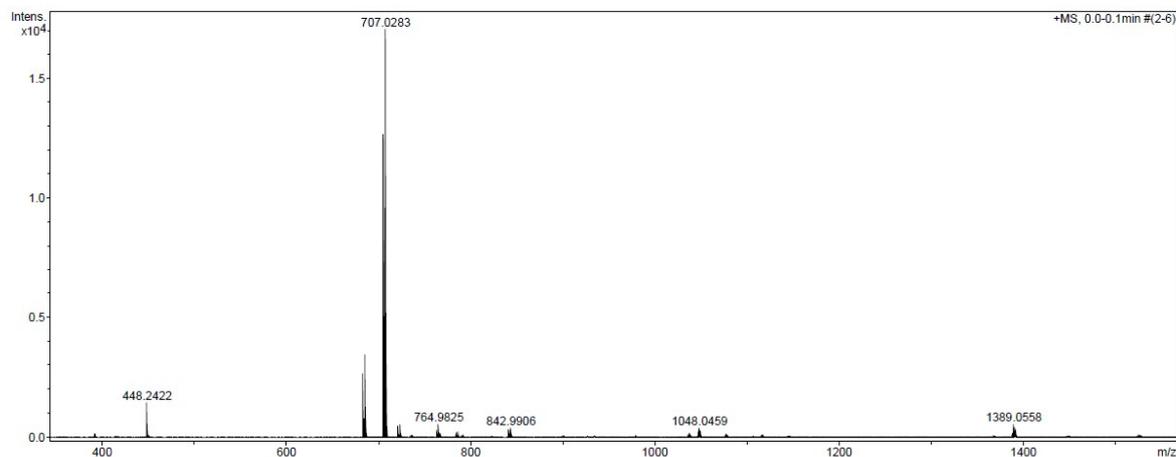
Analysis Info

Analysis Name Q28023ML.d
 Method esi wide.pos.m
 Sample Name Eu-AAz(Pic)/CG21
 Comment

Acquisition Date 07/04/2014 16:54:35
 Operator Administrator
 Instrument micrOTOF

Acquisition Parameter

Source Type	ESI	Capillary	4500 V	Nebulizer	0.4 Bar	Corona	195 nA
Ion Polarity	Positive	Set Capillary Exit	150.0 V	Dry Gas	4.0 l/min	Set Hexapole RF	250.0 V
n/a	n/a	Set Skimmer 1	50.0 V	Dry Heater	180 °C	APCI Heater	514 °C



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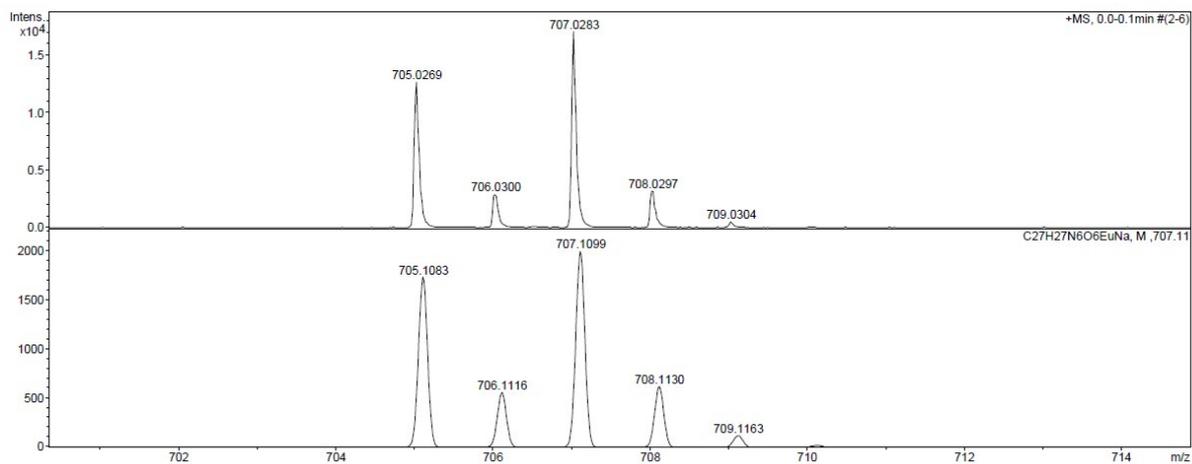


Figure S3. ES⁺/MS spectrum of the [EuL] complex in water (top) and enlargement of the major peak with the simulation for [EuL+Na]⁺ (bottom).

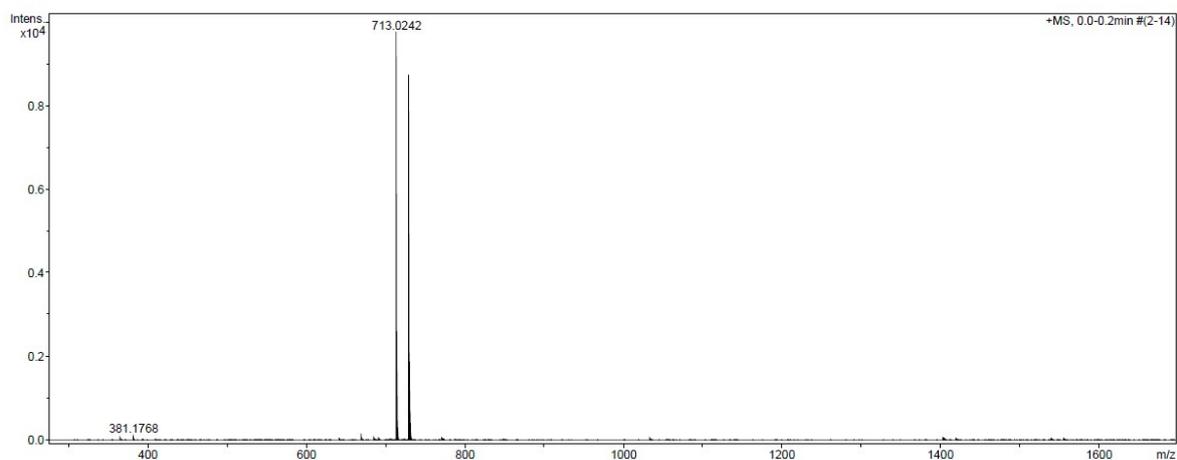
Analysis Info

Analysis Name O28024ML.d
 Method esi wide pos.m
 Sample Name Tb-AAz(Pic)/CG22
 Comment

Acquisition Date 07/04/2014 16:57:14
 Operator Administrator
 Instrument micrOTOF

Acquisition Parameter

Source Type	ESI	Capillary	4500 V	Nebulizer	0.4 Bar	Corona	195 nA
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	n/a	Set Skimmer 1	50.0 V	Dry Heater	180 °C	APCI Heater	514 °C



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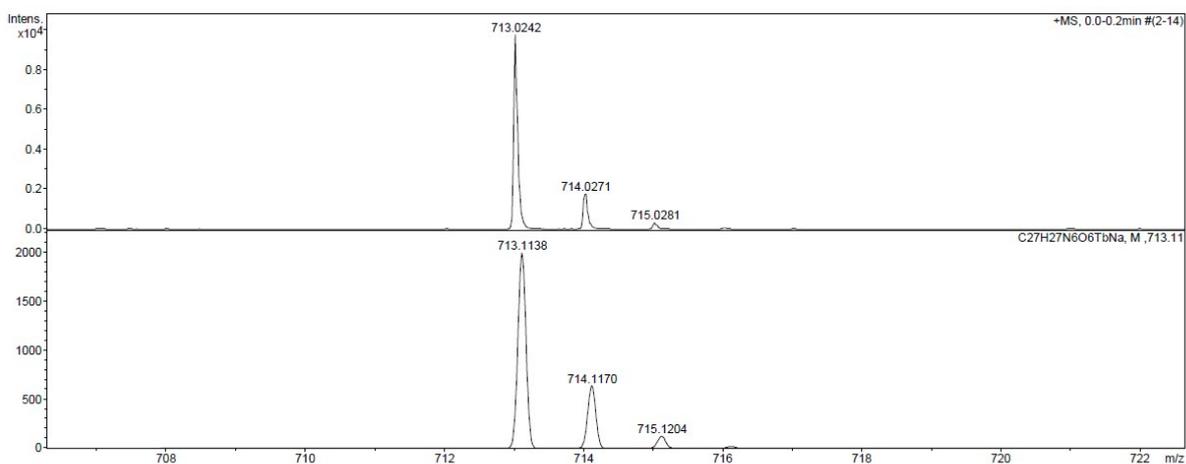


Figure S4. ES/MS spectrum of the [TbL] complex in water (top) and enlargement of the major peak with the simulation for [TbL+Na]⁺ (bottom).

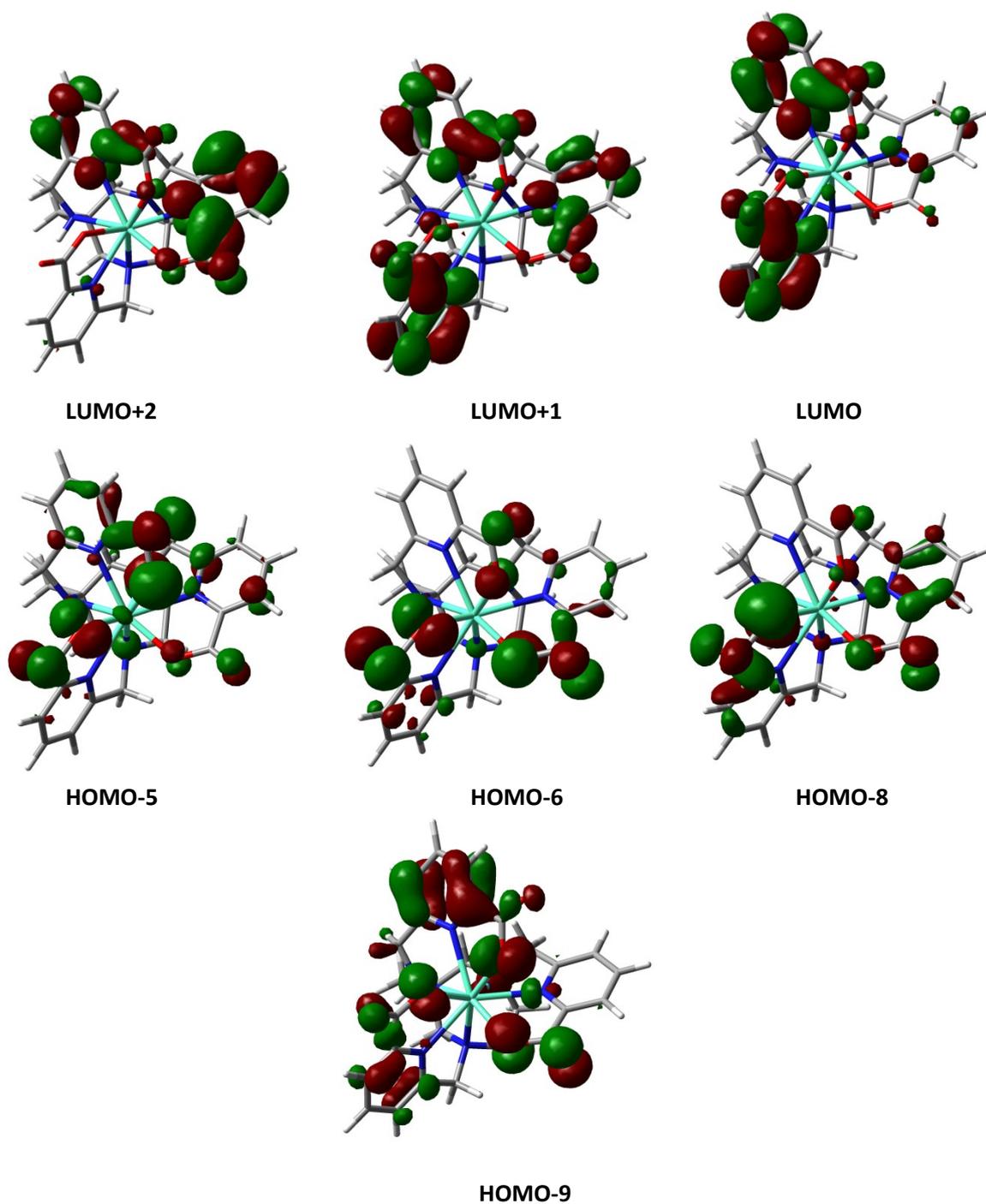


Figure S5. Views of the frontier MOs of [EuL] obtained from DFT calculations in aqueous solution shown with an isosurface value of 0.03 a.u.