Supporting information for:

Ionic liquid-based extraction system using diglycolamide functionalized macrocyclic platforms for the extraction and recovery of lanthanides

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Table SI- 1 : Extraction data of each individual Ln (III) by CR4-TZ-DODGA and C4-TZ-DODGA at 25° C; [L]= 0.165-2.64 mM in EOPip[NTf_2]/ 10 % octanol; [Ln^{3+}]=0.66Mm

	[Ligand]	D_{La}	D_{Eu}	D_{Yb}
LI	**0.165**	0.03	0.31	0.32
	0.33	0.06	0.39	0.87
	0.66	0.09	3.7	7.2
	1.32	0.23	28	89
	2.64	0.52	111	995
LII	**0.165**	0.08	0.32	0.33
	0.33	0.17	0.87	0.98
	0.66	0.37	4.6	14
	1.32	0.72	30.5	447
	2.64	1.28	187	2239

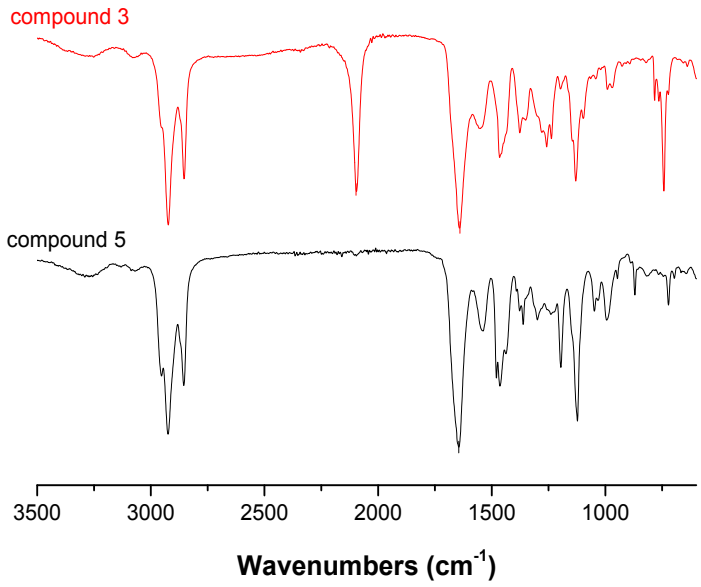

Figure SI-1: IR spectra of compound **3** and **5**

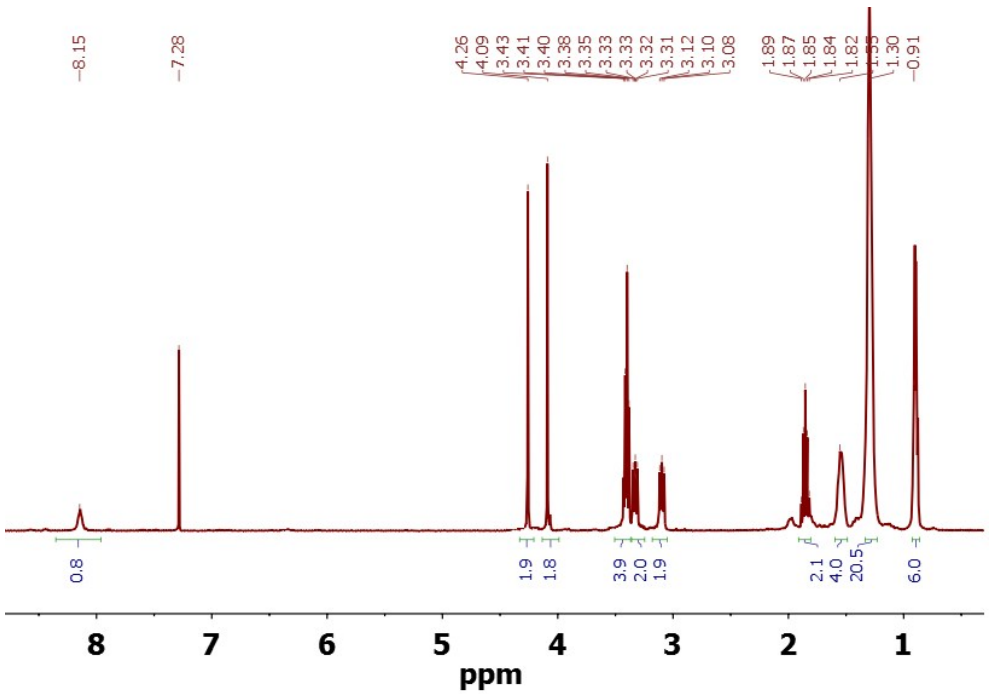

Figure SI- 2: ^{1}H NMR of compound **3**

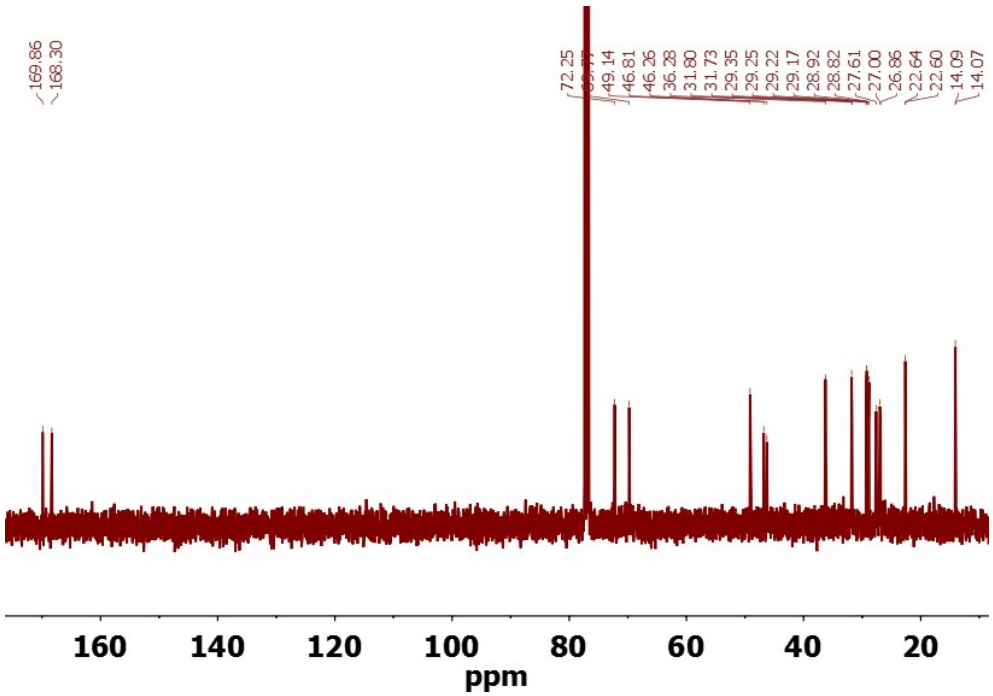

Figure SI- 3: ^{13}C NMR of compound **3**

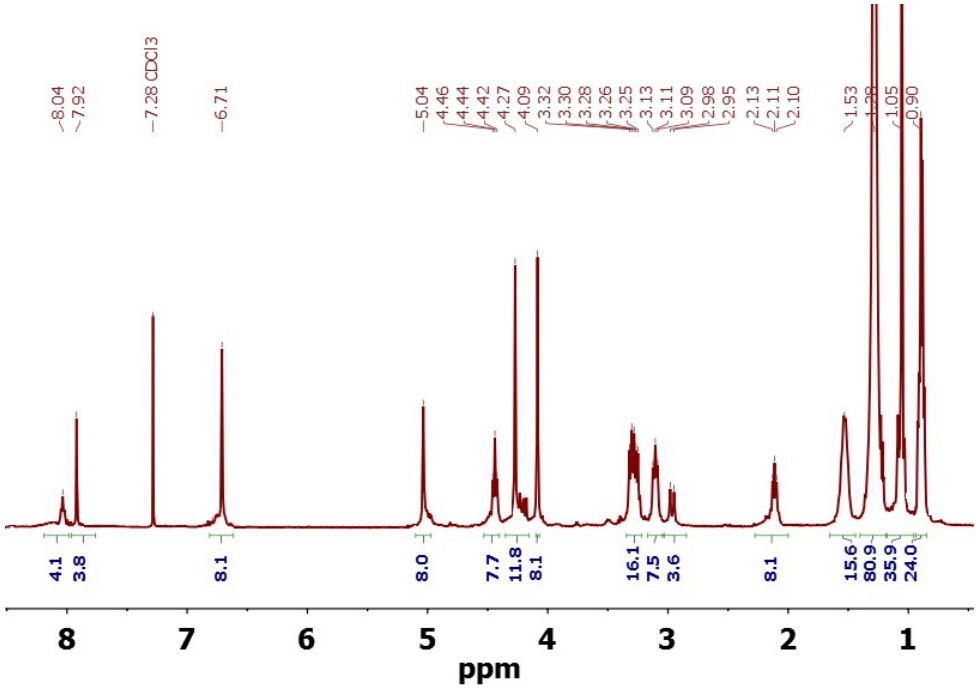

Figure SI- 4: ^{1}HNMR of compound **5** (**LII**)

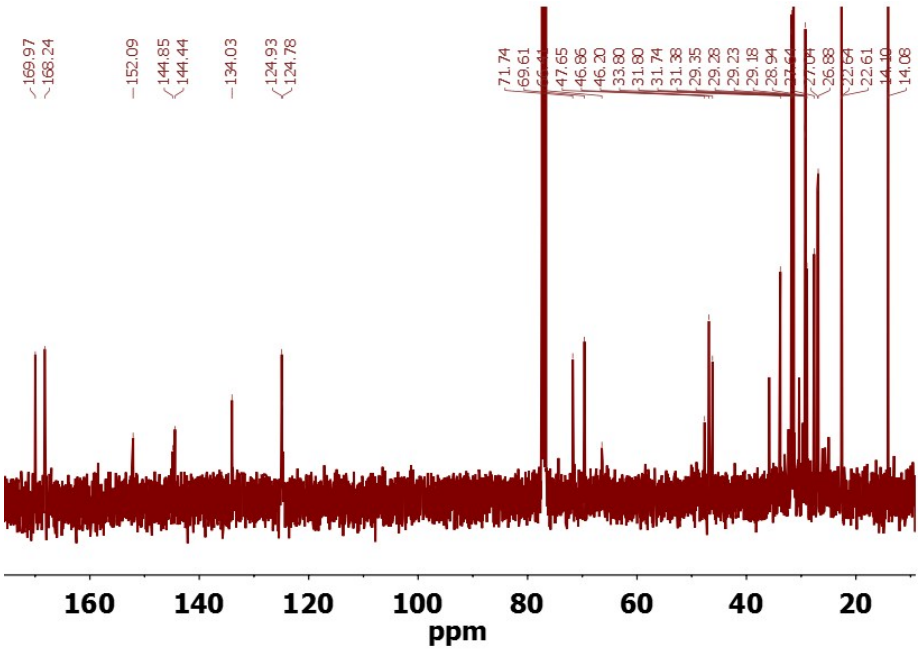

Figure SI- 5 : ^{13}C NMR of compound **5** (**LII**)

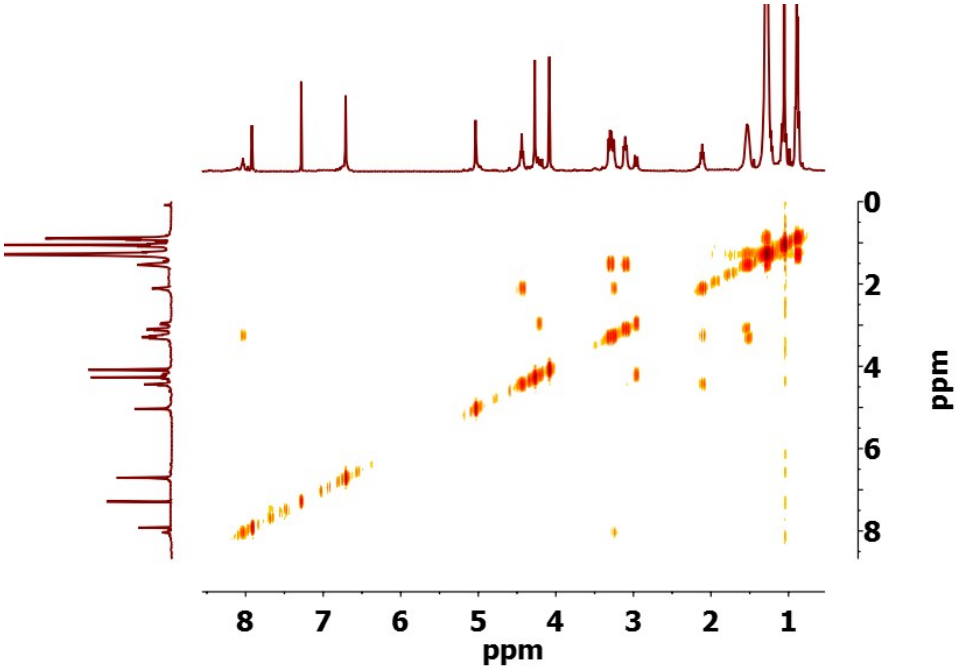

Figure SI- 6 : COSY spectrum of compound **5** (**LII**)