ANNEXO:

Síntesis y caracterización de complejos moleculares de rutenio que incorporan el ligando Py4Im en su estructura. Aplicación en catálisis de oxidación de agua y de epoxidación de olefinas.

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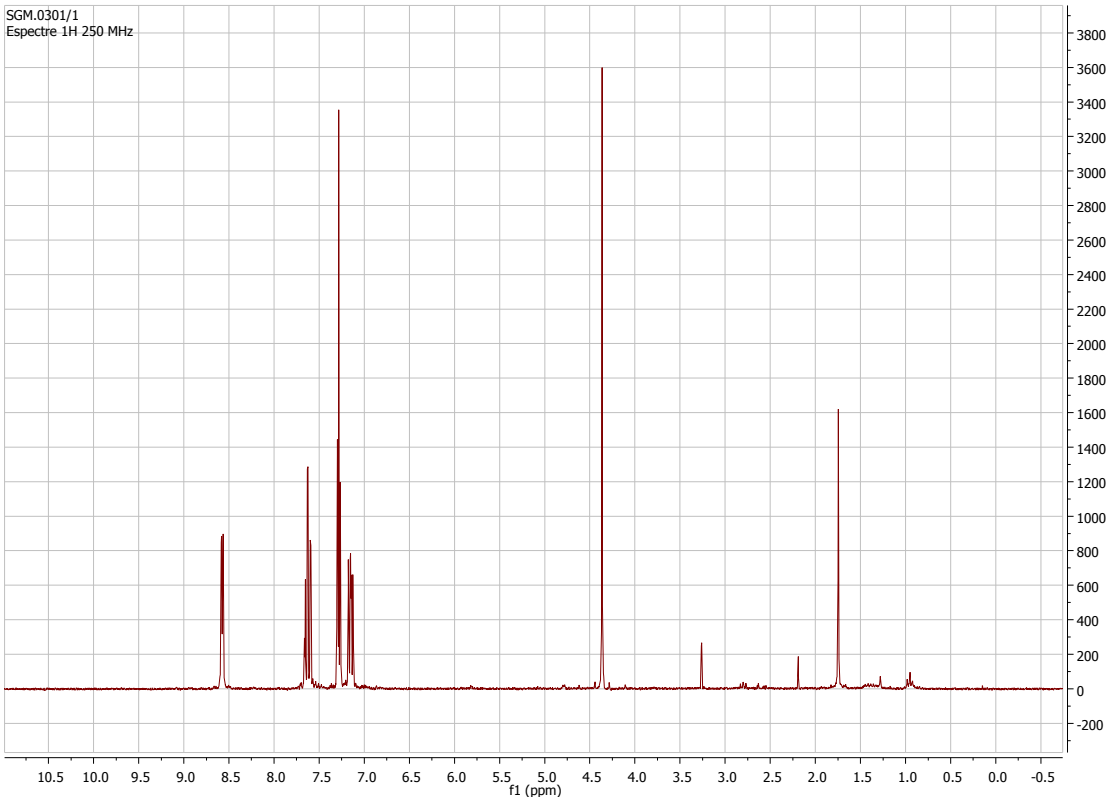
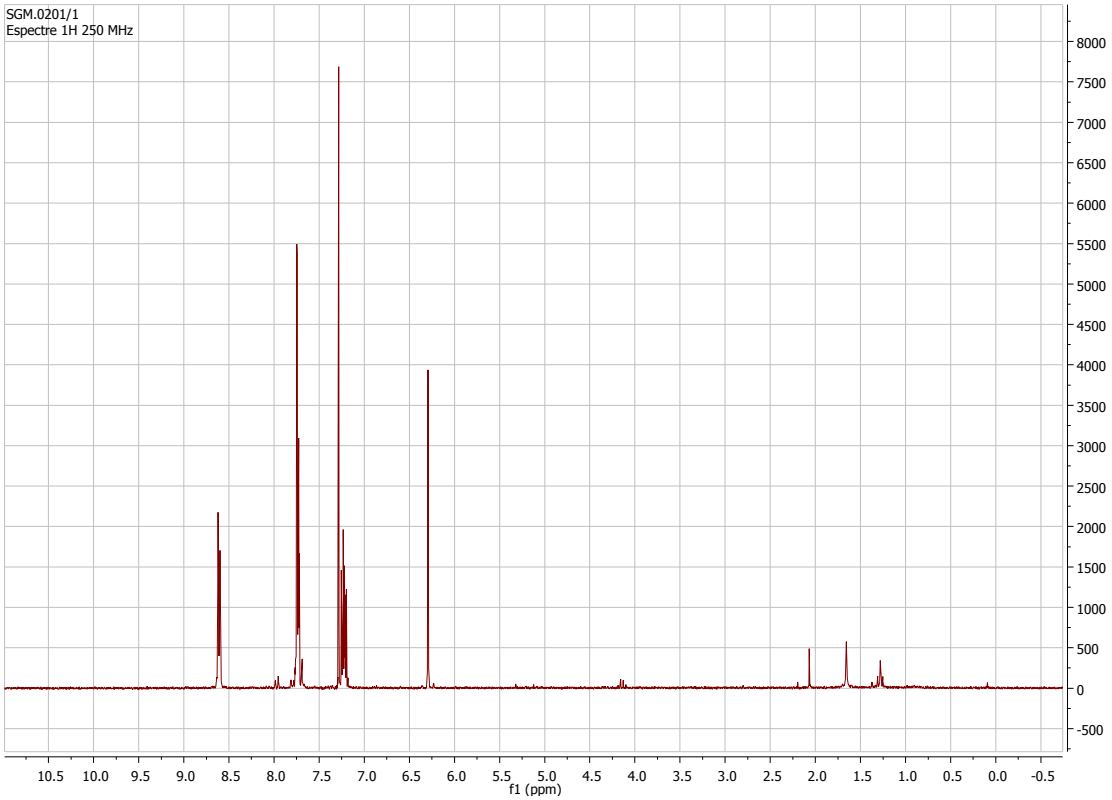
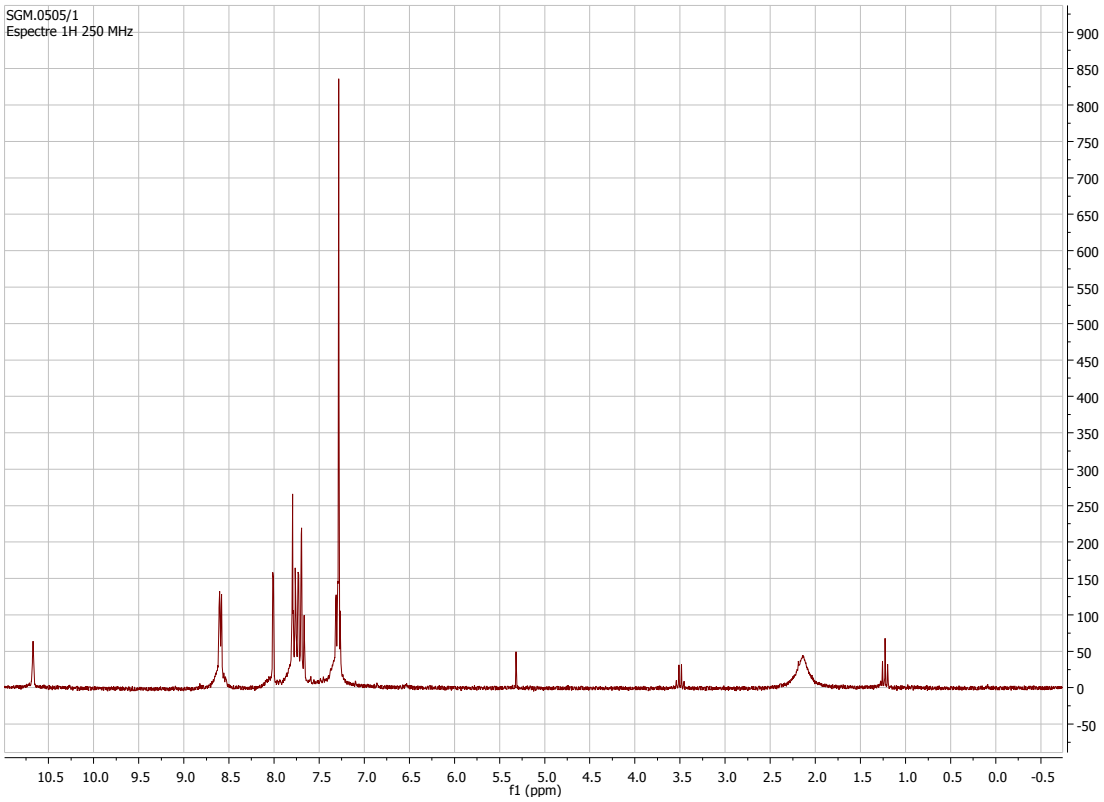
^{1}H-NMR de la 2-(2-piridilmetil)piridina



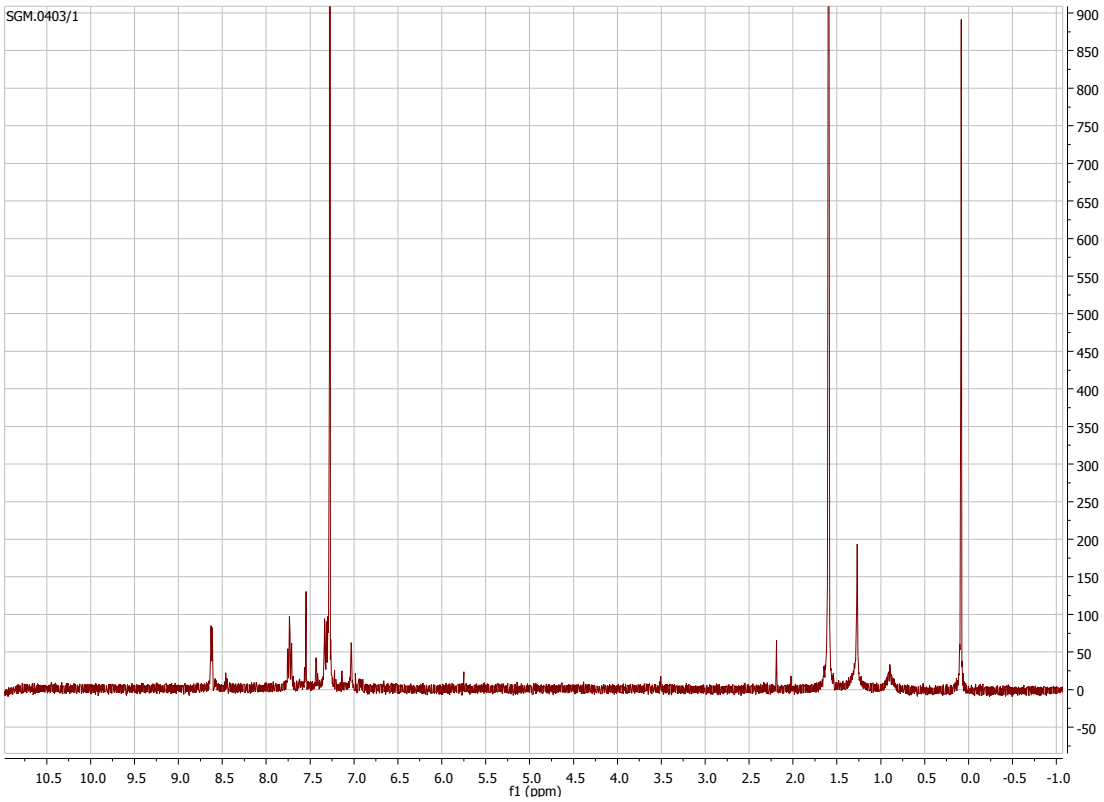
^{1}H-NMR del bis(2-piridil)bromometano



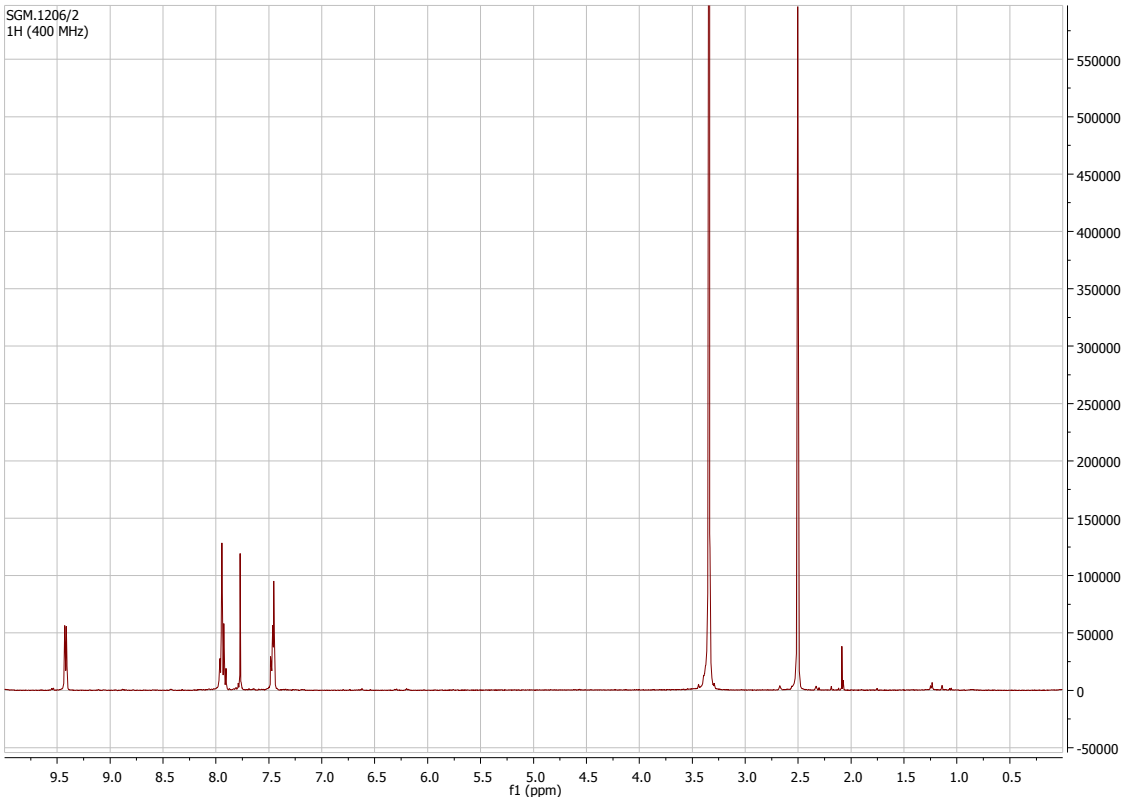
^{1}H-NMR de [Py4ImH]Br



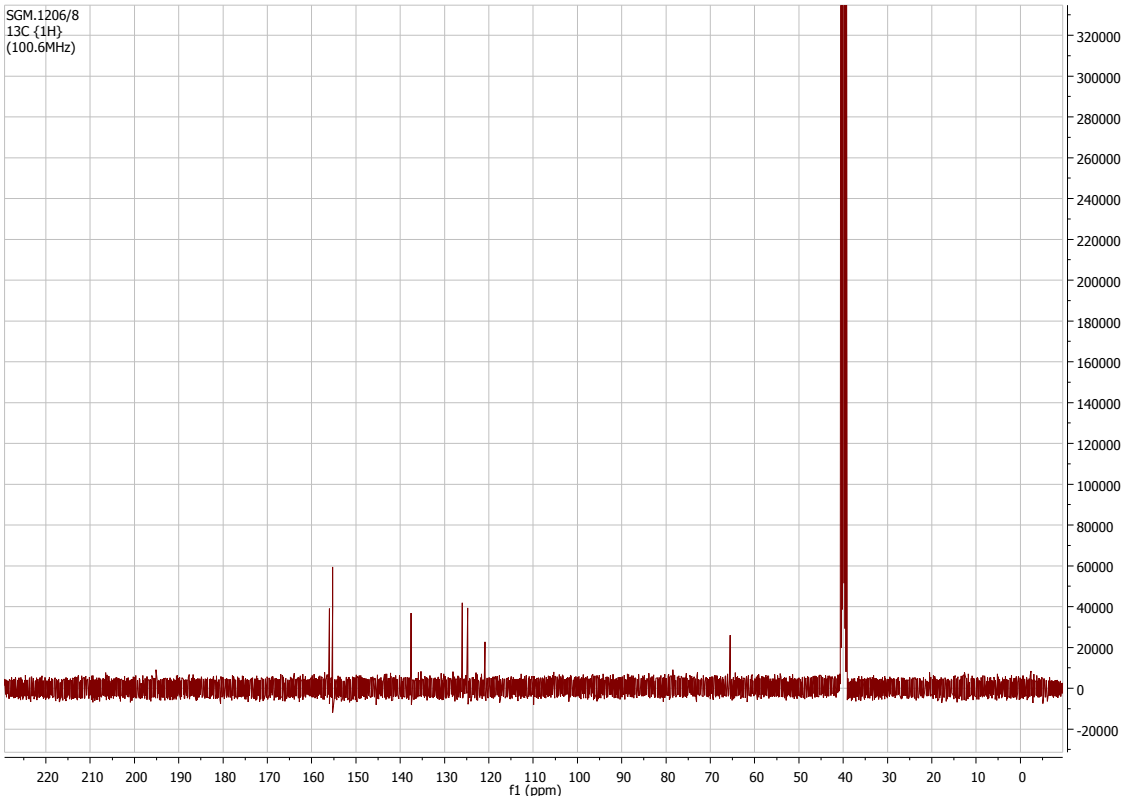
^{1}H-NMR de [Py4ImAg]Br



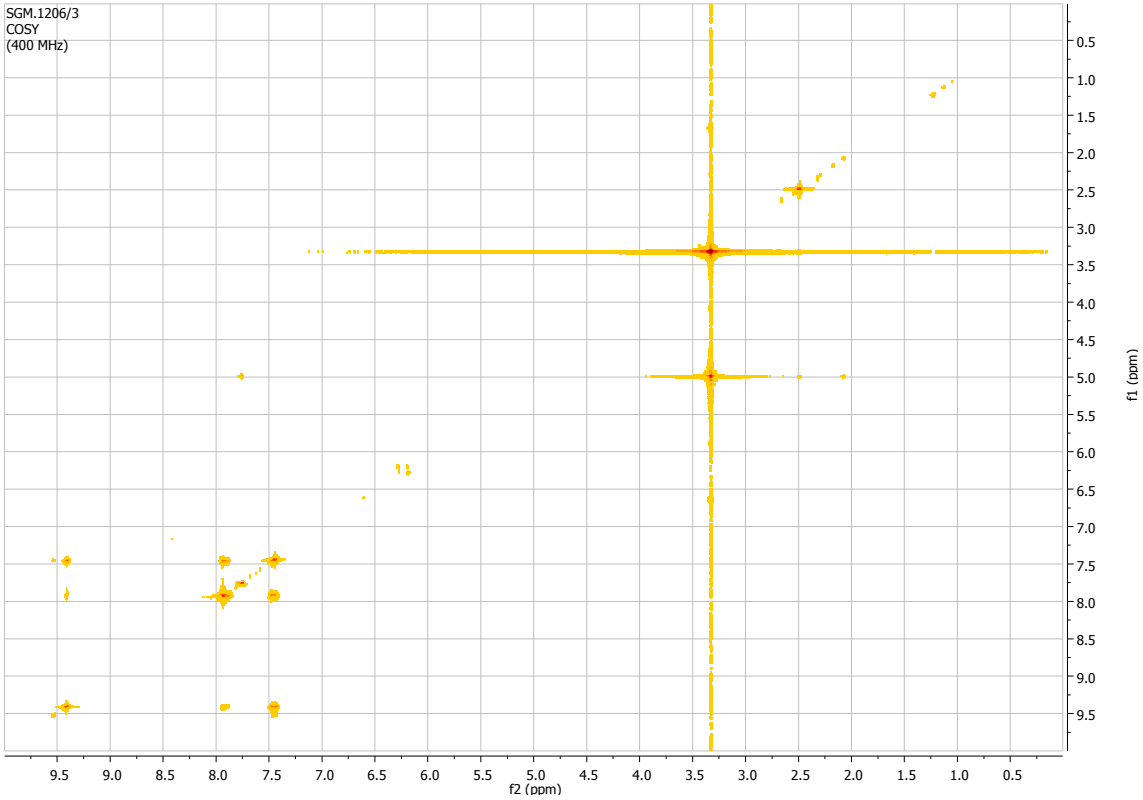
^{1}H-NMR de [Ru(Py4Im)Cl]Cl



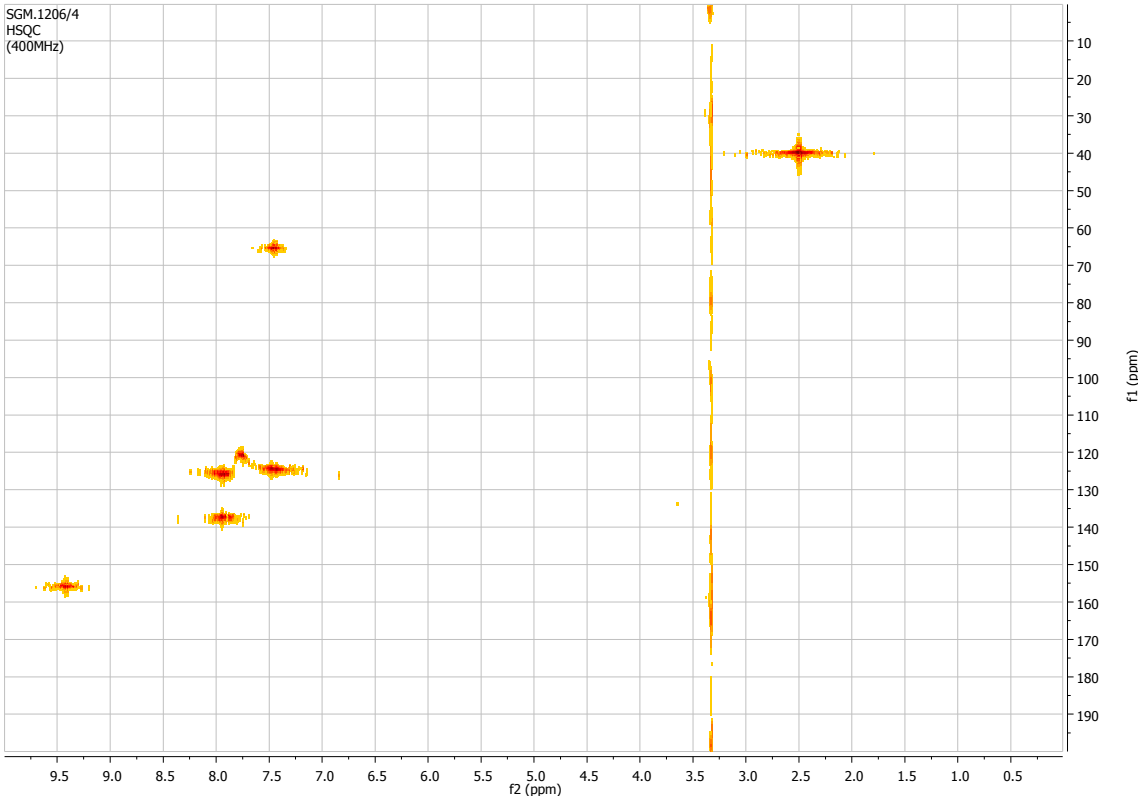
^{13}C-NMR de [Ru(Py4Im)Cl]Cl



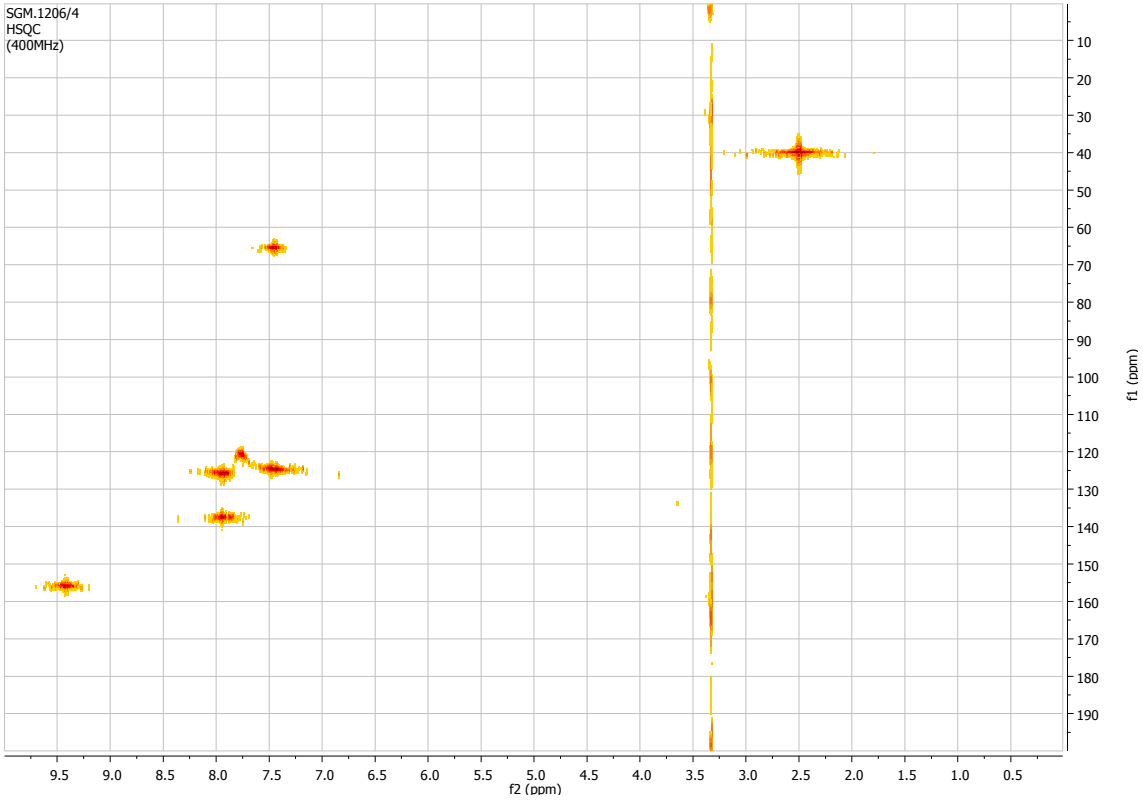
COSY NMR de [Ru(Py4Im)Cl]Cl



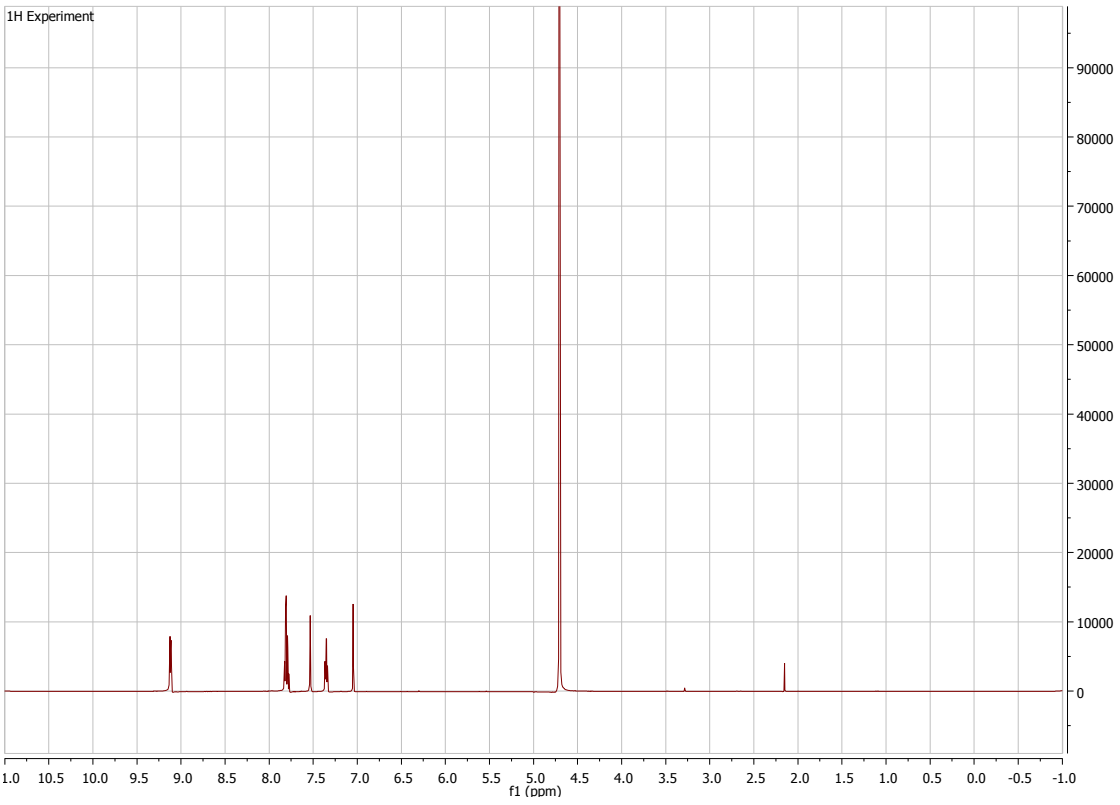
HSQC NMR de [Ru(Py4Im)Cl]Cl



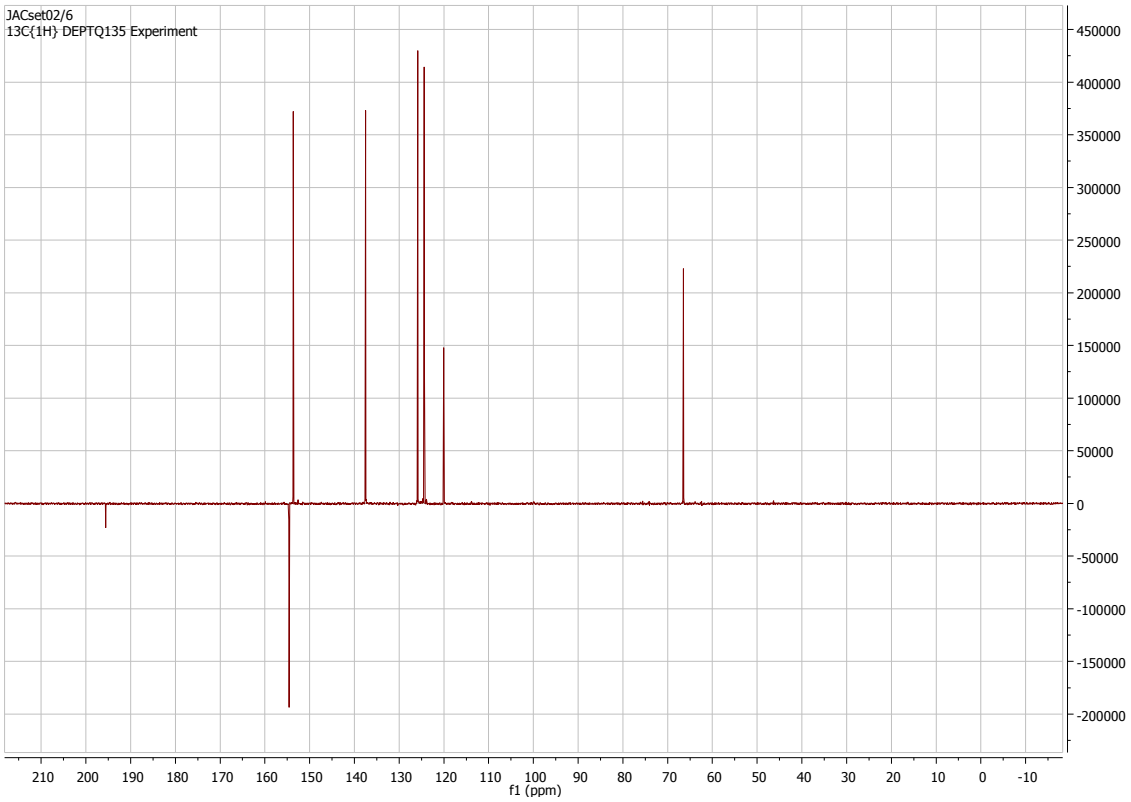
HMBC NMR de [Ru(Py4Im)Cl]Cl



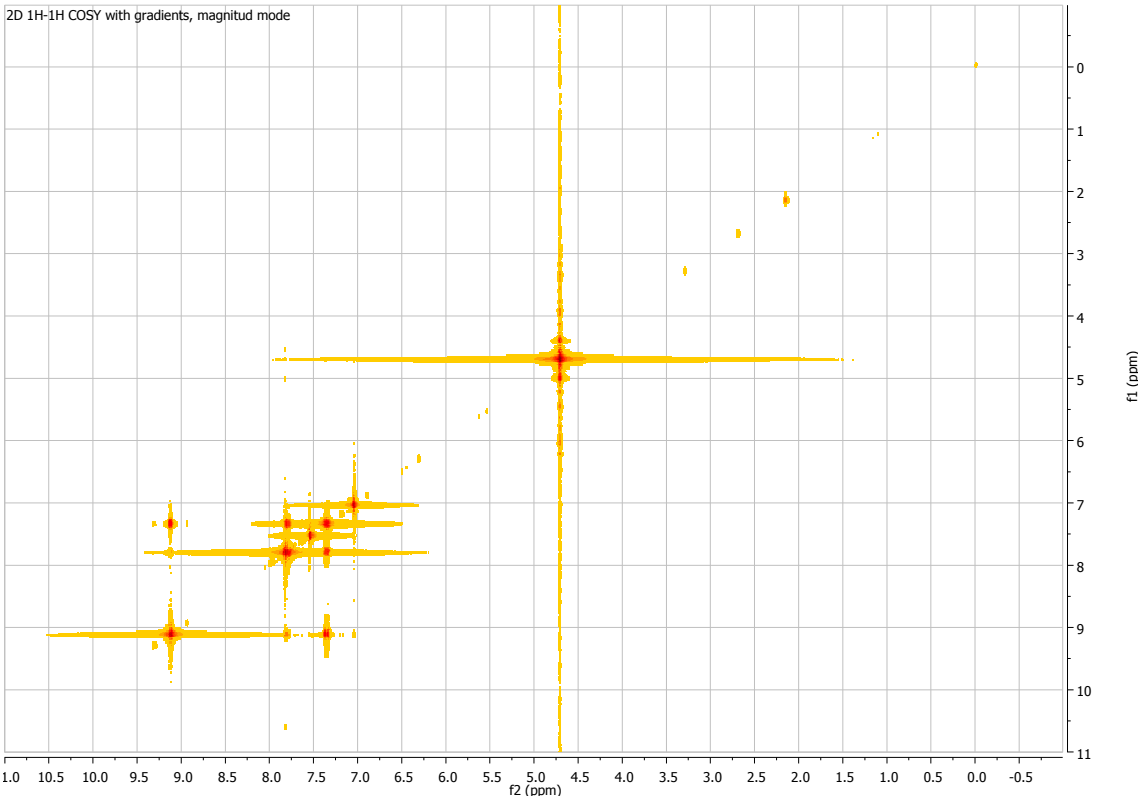
^{1}H-NMR de [Ru(Py4Im)H_2O](BF_4)$_2$



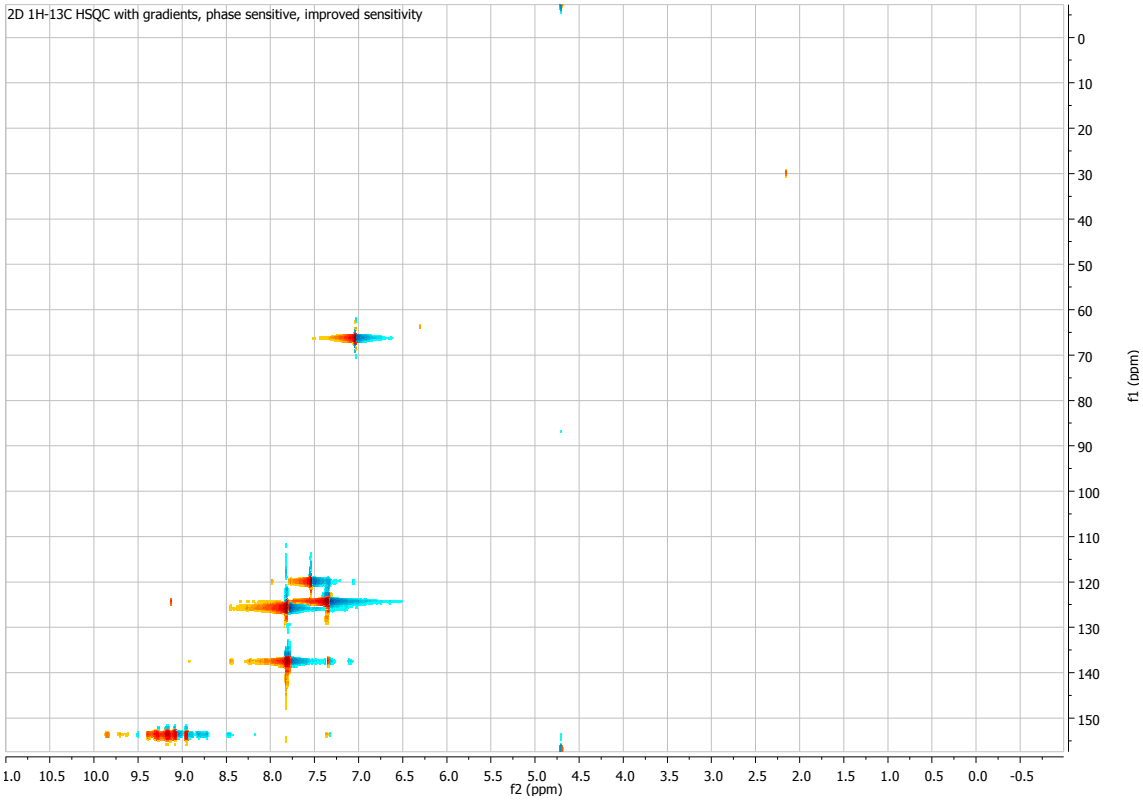
^{13}C-NMR de [Ru(Py4Im)H_2O](BF_4)$_2$



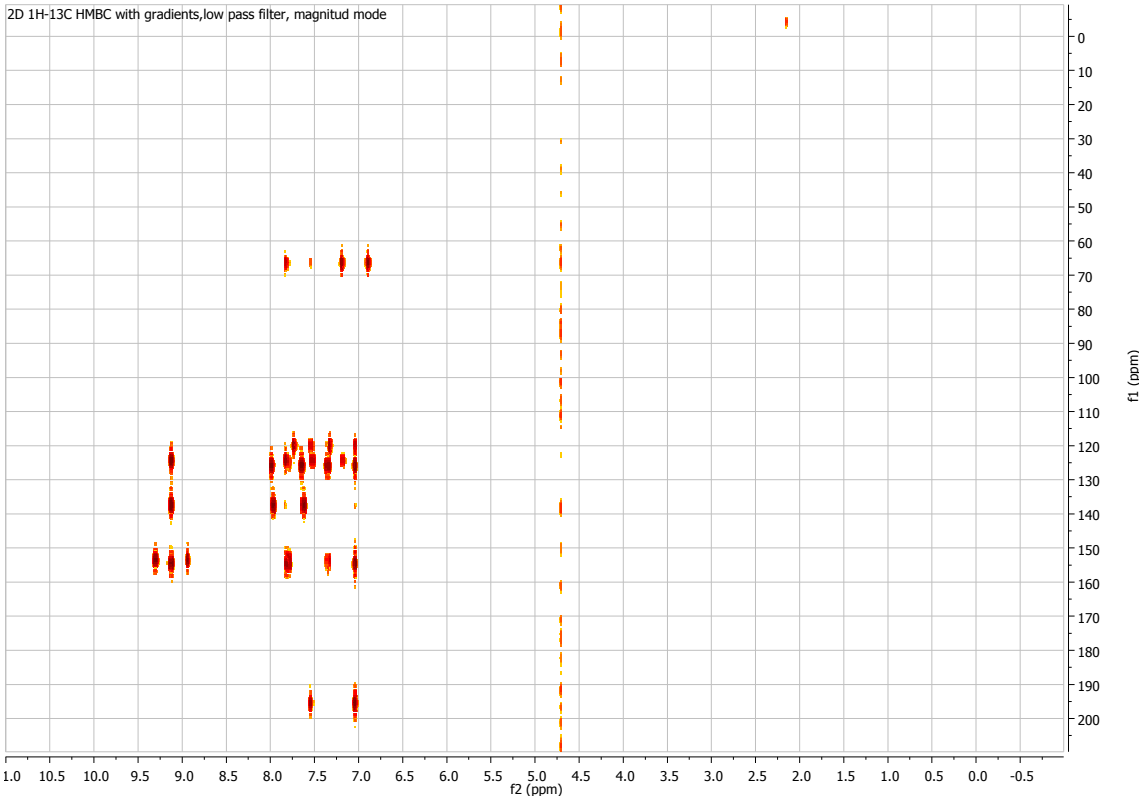
COSY NMR de [Ru(Py4Im)H_2O](BF_4)$_2$



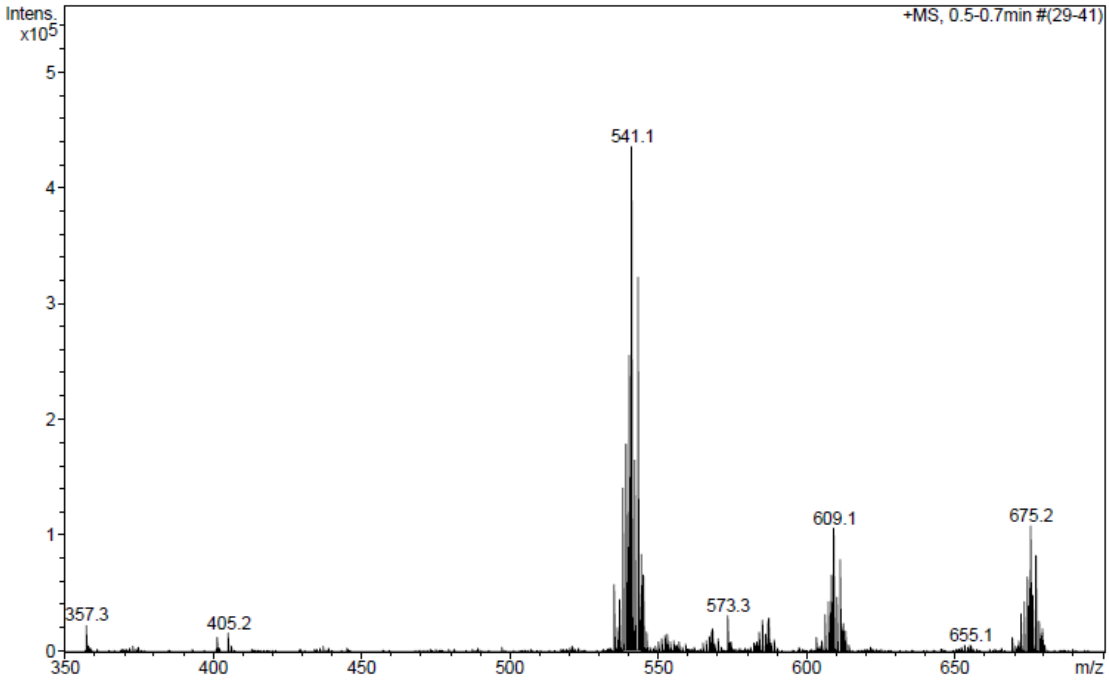
HSQC NMR de $[Ru(Py4Im)H_2O](BF_4)_2$



HMBC NMR de $[Ru(Py4Im)H_2O](BF_4)_2$



MS-ESI de [Ru(Py4Im)Cl]Cl completo



MS-ESI de [Ru(Py4Im)Cl]Cl aumentado