

Electronic Supplementary Information

Structural and Raman spectroscopic characterization of tetrapyridinesilver(I) perrhenate, $[\text{Agpy}_4]\text{ReO}_4$

Vladimir M. Petruševski,^a Kende Attila Béres,^{b,c} Petra Bombicz,^b Attila Farkas,^d László Kótai,^{b,e} Laura Bereczki^b

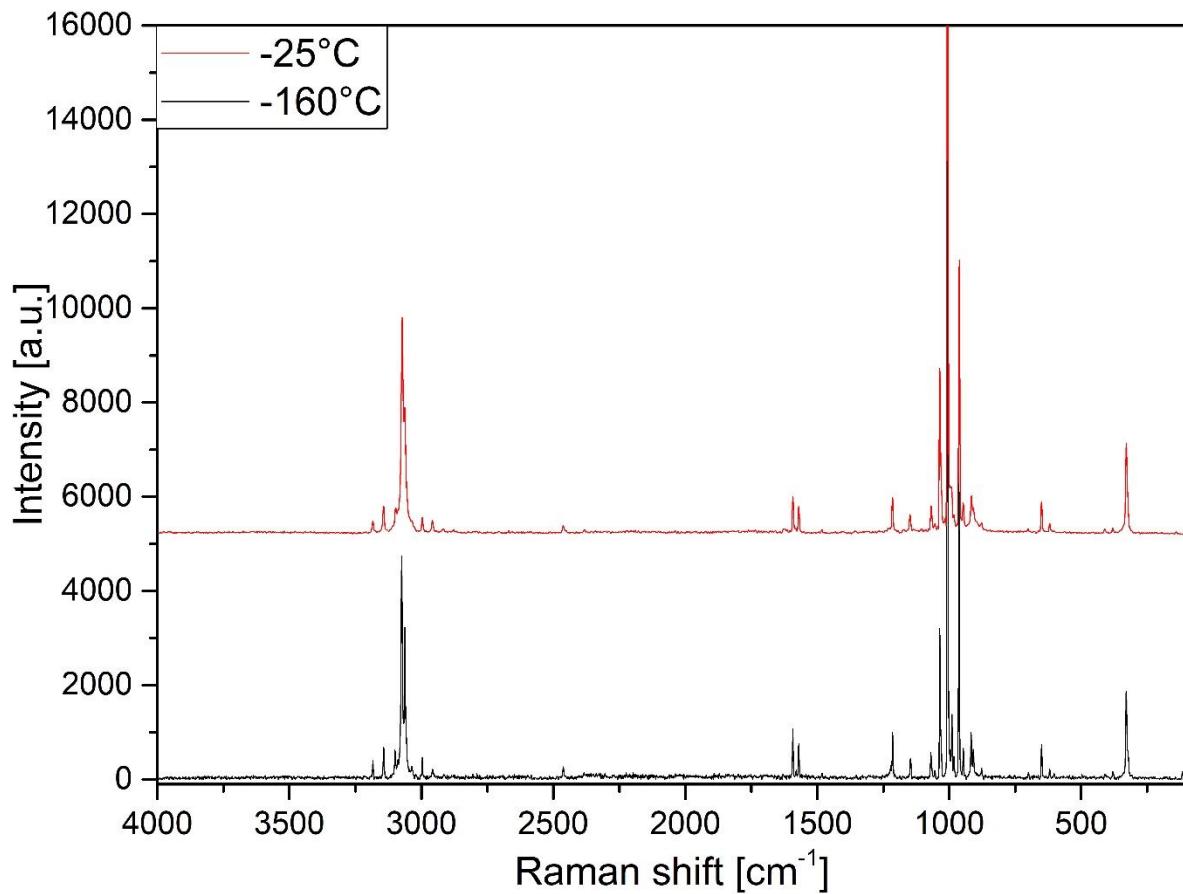
^a*Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje,
Republic of Macedonia*

^b*Research Centre for Natural Sciences, Hungarian Academy of Sciences, Magyar Tudósok
krt. 2., Budapest, H-1117, Hungary*

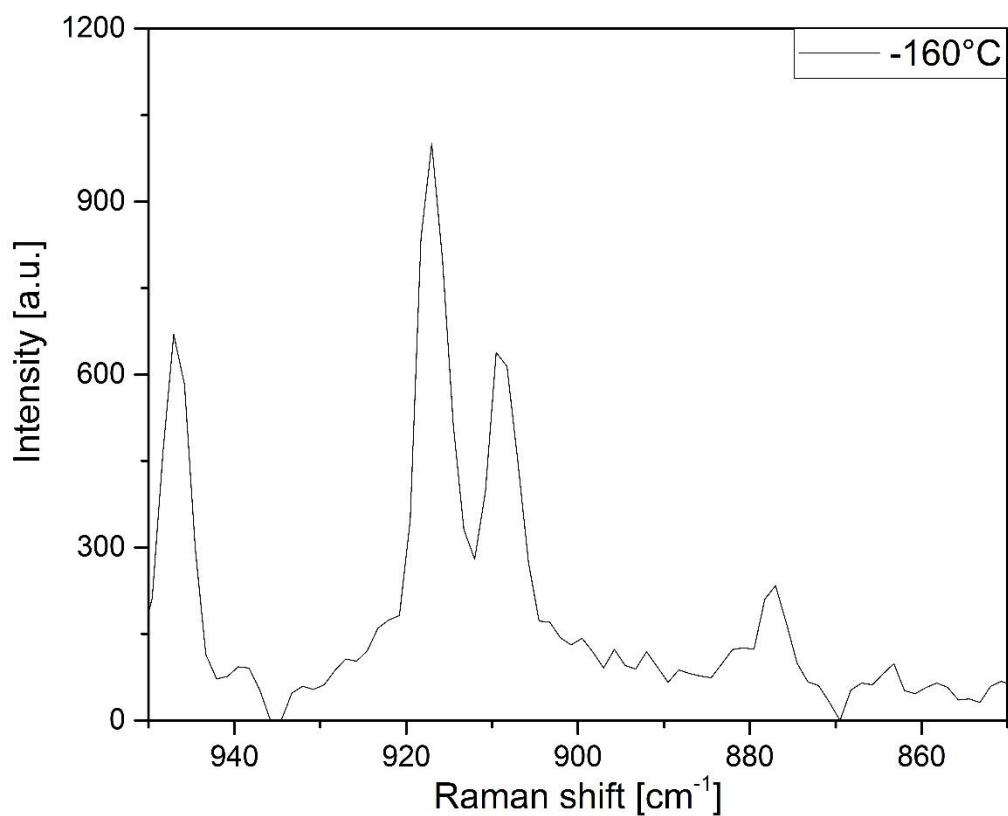
^c*Institute of Chemistry, ELTE Eötvös Loránd University, Pázmány Péter s. 1/A, 1117
Budapest, Hungary*

^d*Budapest University of Technology and Economics, Department of Organic Chemistry and
Technology, H-1111, Budapest, Műegyetem rkp. 3., Hungary*

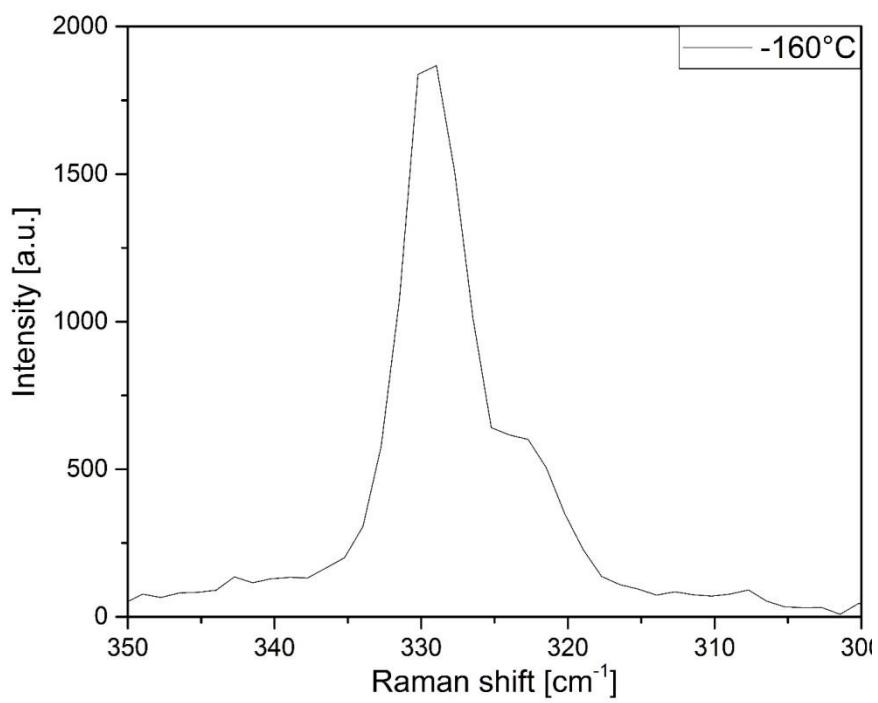
^e*Deuton-X Ltd, H-2030, Érd, Selmeci u. 89*



ESI Fig. 1. Raman spectra of the compound at 113 K and 247 K between 4000 and 100 cm⁻¹



ESI Fig. 2. Raman spectrum of the compound at 113 K between 850 and 950 cm^{-1}



ESI Fig. 3. Raman spectrum of the compound at -160 °C between 300 and 350 cm⁻¹

ESI Table 1. Assignment of pyridine vibrations in the Raman spectrum of the studied compound at 113 K

C _{2v}	v		Compound 1	Pyridine
A ₁ (in plane)	1	C-H stretch	3076	3076
	2	C-H stretch	3062	3060
	3	C-H stretch	3037	3030
	4	Ring stretch	1592	1578
	5	Ring stretch	1480	1483
	6	C-H wag	1215	1217
	7	C-H wag	1072	1071
	8	Ring bend	1039	1031
	9	Ring breathing	859	858
	10	Ring bend	619	601
A ₂ (out of plane)	11	C-H wag	983	982
	12	C-H wag	878	887
	13	Ring bend	-	-
B ₁ (out of plane)	14	C-H wag	1007	997
	15	C-H wag	-	-
	16	C-H wag	-	-
	17	Ring bend	-	-
	18	Ring bend	-	-
B ₂ (in-plane)	19	C-H stretch	3062	3066
	20	C-H stretch	3037	3030
	21	Ring stretch	1570	1577
	22	Ring stretch	1446	1443
	23	C-H wag	1355	-
	24	Ring stretch	1222	1227
	25	C-H wag	1149	-
	26	C-H wag	1067	1068
	27	Ring bend	649	654