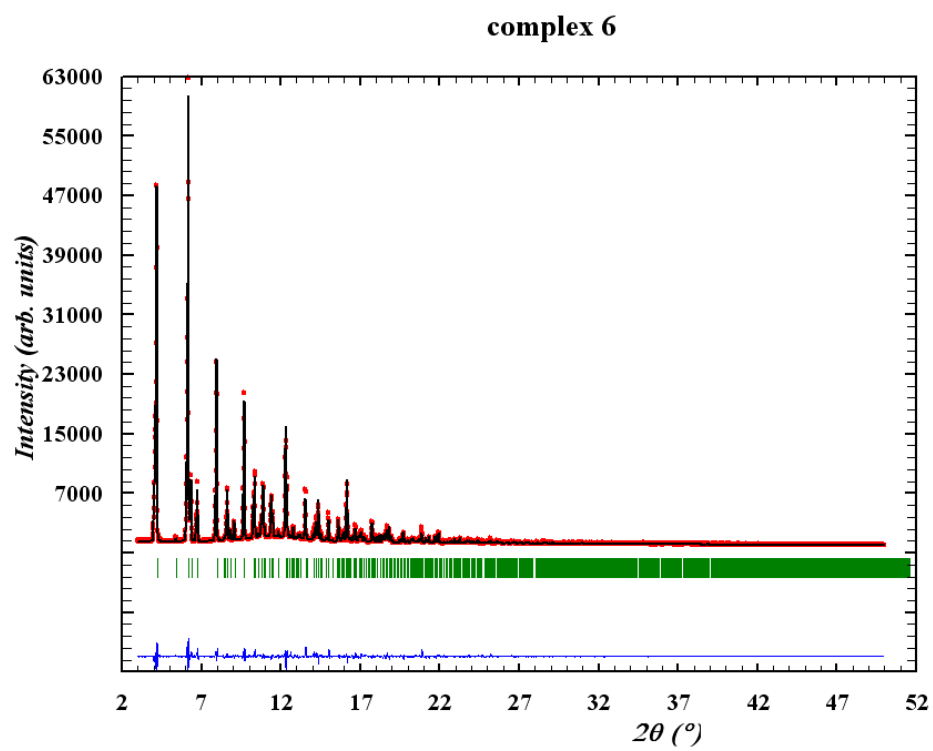
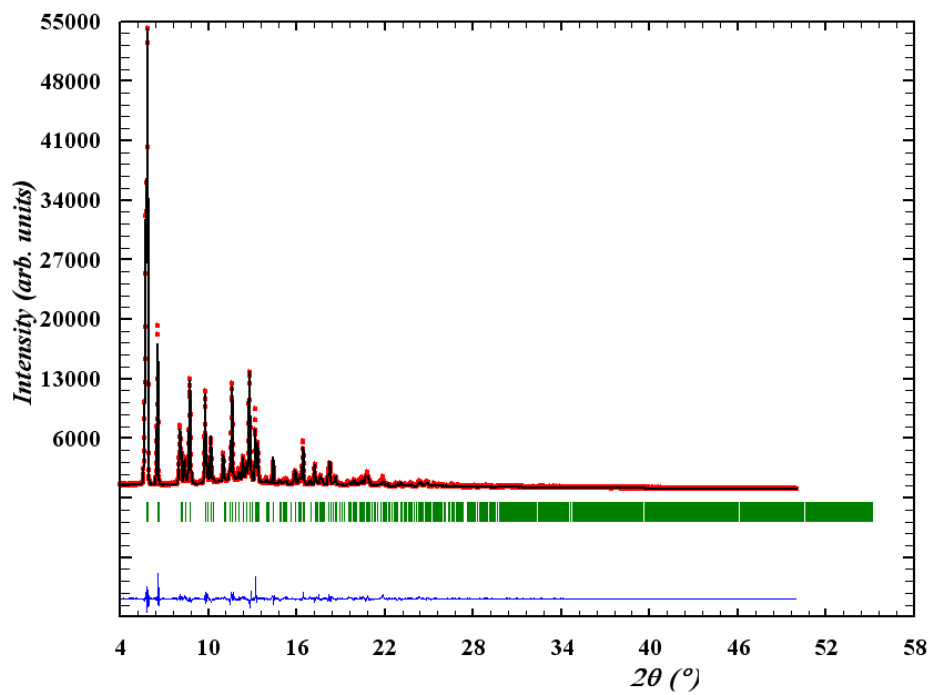


	<b>2</b>	<b>4</b>	<b>5·(CH<sub>3</sub>)<sub>2</sub>SO</b>	<b>6</b>	<b>7</b>
Formula	C22 H16 N6 O6 Pd1 S2	C18 H20 N2 O6 Pd1 S4	C18 H22 N2 O8 Pd S4	C26 H20 N6 O8 Pd1 S2	C20 H20 N6 O6 Pd1
<i>M</i>	630.92	595.00	629.02	715.01	546.82
Crystal system	monoclinic	monoclinic	orthorhombic	monoclinic	monoclinic
Space group	P21/c	P21/a	Cmc21	P21/c	P21/a
<i>Z</i>	2	2	4	2	2
<i>a</i> / Å	8.0530(3)	8.3977(14)	22.245(2)	12.03223(12)	9.67234(10)
<i>b</i> / Å	9.7220(4)	11.2186(18)	13.6954(14)	14.00604(15)	14.37138(15)
<i>c</i> / Å	16.0510(4)	12.2070(20)	7.5899(8)	9.78155(10)	8.18547(10)
$\alpha$ / °	90	90	90	90	90
$\beta$ / °	96.788(2)	108.288(5)	90	110.8723(13)	92.73275(10)
$\gamma$ / °	90	90	90	90	90
<i>V</i> / Å <sup>3</sup>	1247.84(8)	1091.9(3)	2312.3(4)	1540.25(3)	1136.53(3)
<i>T</i> / K	293(2)	293(2)	293(2)	293(2)	293(2)
$\lambda$ / Å	0.71073	0.71073	0.71073	0.82690	0.82690
$\mu$ / mm <sup>-1</sup>	0.962	1.271	1.212		
Reflections collected	10326	28341	13931		
Independent reflections	2890	2725	2885		
Goodness-of-fit on <i>F</i> <sup>2</sup>	1.041	1.065	1.065		
Final <i>R</i> indices [ <i>I</i> > 2σ( <i>I</i> )] <sup>[a,b]</sup>	0.0397	0.0567	0.0396		
<i>R</i> indices (all data) <sup>[a,b]</sup>	0.0772	0.0606	0.0418		
Max /min $\Delta\rho$ [e·Å <sup>-3</sup> ]	0.572 -1.229	1.609 -2.908	1.874 -0.883		
<sup>[a]</sup> $R_1 = \sum \ F_o\  - \ F_c\  / \sum \ F_o\ $ for reflections with <i>I</i> > 2σ <i>I</i> . <sup>[b]</sup> $wR_2 = \{\sum[w(F_o^2 - F_c^2)^2] / \sum[w(F_o^2)^2]\}^{1/2}$ for all reflections; $w^{-1} = \sigma^2(F^2) + (aP)^2 + bP$ , in which $P = (2F_c^2 + F_o^2)/3$ and <i>a</i> and <i>b</i> are constants set by the program.					

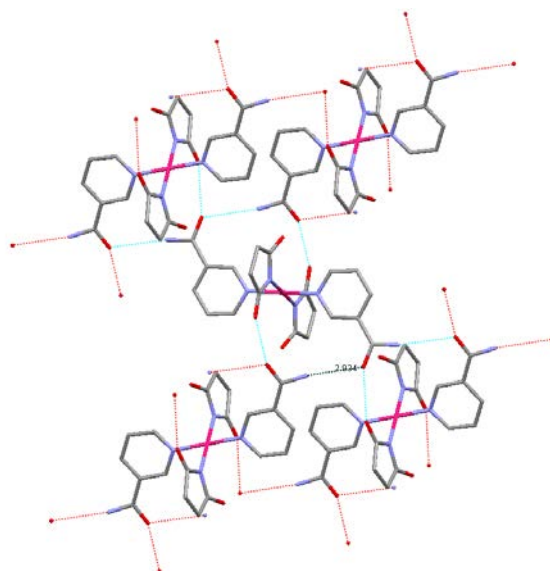
## S2. Plots for the Rietveld refinement of 6 and 7



complex 7



S3 Crystal packing of [Pd(succ)<sub>2</sub>(nicot)<sub>2</sub>] (7)



**S4.** (B3LYP-D3/def2-TZVPPecp//B3LYP-D3/def2-TZVP) energy diagram (kcal/mol) for rotation of the Pd-S bond in model complex **5**

