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Supplementary Information

A Serendipitous Isolation of Cocrystalized Platinum-Tin Complexes:

Synthesis, Structure and Theoretical Exploration

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Figure S1. DFT optimized geometries a) [$\{Pt(\kappa_2-SeC_5H_4N)(dppp)\}$]; b) [$\{(Me_2Sn)_5O_3Cl_5\}$];c) [$\{(Me_2Sn)_5O_3Cl_5\}$]. The labelling of atoms are for comparing NPA charges and second order perturbation analysis donor-acceptor interaction analysis. Color code: Pt (pink), Sn (tangerine), P(light brown), Se (light yellow), Cl (green), O (red), N(blue), C (grey) and H (white).

Table S1. NBO computed NPA charges on crystal structure and DFT optimized geometry of $[{Pt(\kappa_2-SeC_5H_4N)(dppp)}]$ unit of complex 2a. Pt and atoms in first coordination sphere were kept in bold. (For numbering see Figure S1)

Atoms	[{Pt(k ₂ -SeC ₅ H ₄ N)(dppp)}]	[{Pt(k ₂ -SeC ₅ H ₄ N)(dppp)}]
	(X-ray Crystal Structure)	(DFT Optimized Geometry)
Pt 1	0.13772	0.14654
Se 2	-0.06074	-0.05301
P 3	1.10344	1.09997
P 4	1.02434	1.03107
N 5	-0.55618	-0.57108
C 6	0.07807	0.07738
C 7	-0.23095	-0.27305
H 8	0.21661	0.26914
C 9	-0.09103	-0.16336
H 10	0.20361	0.26198
C 11	-0.23445	-0.28436
H 12	0.20663	0.26224
C 13	0.14653	0.08273
H 14	0.18636	0.24367
C 15	-0.36143	-0.36941
C 16	-0.18422	-0.22953
H 17	0.20419	0.25609
C 18	-0.15634	-0.21946
H 19	0.19962	0.25507
C 20	-0.15209	-0.20777
H 21	0.19739	0.25470
C 22	-0.16892	-0.21991
H 23	0.20041	0.25442
C 24	-0.15973	-0.21700
H 25	0.19758	0.25541
C 26	-0.36986	-0.37056
C 27	-0.16269	-0.21995
H 28	0.20324	0.26372
C 29	-0.16504	-0.22762
H 30	0.20048	0.25531
C 31	-0.14855	-0.21227
H 32	0.19756	0.25403
C 33	-0.17425	-0.21971
H 34	0.20020	0.25404
0.35	-0.1/6/9	-0.22022
H 36	0.19196	0.241/5
C 37	-0.69499	-0.75848
H 38	0.24546	0.284/3
H 39	0.24/14	0.28296
C 40	-0.38058	-0.4 / /44
H 41	0.21276	0.25149
H 42	0.22988	0.2/222
C 45	-0.07133	-0.74775
п 44 Ц 45	0.23038	0.2/004
П 43 С 46	0.240/3	0.2/901
C 40	-0.57705	-0.3/940
U4/ H19	0.10417	0.21030
C 40	-0.16205	0.23725
U 49 H 50	0 100/2	0.22210
C 51	_0.15755	_0 20633
H 52	0.19829	0.25417

C 53	-0.16248	-0.22494
Н 54	0.20108	0.25510
C 55	-0.17921	-0.22945
Н 56	0.19685	0.24654
C 57	-0.37910	-0.37284
C 58	-0.17235	-0.22668
Н 59	0.20059	0.25967
C 60	-0.16371	-0.22282
H 61	0.20032	0.25658
C 62	-0.16555	-0.21388
Н 63	0.20095	0.25657
C 64	-0.16341	-0.22074
H 65	0.20313	0.25681
C 66	-0.16855	-0.22575
Н 67	0.19685	0.25206

Table S2. NBO computed NPA charges on DFT optimized geometry of $[{Pt(\kappa_2-SeC_5H_4N)(dppp)}]$ unit of complex **2a** and their isolated fragments ${Pt(dppp)}$ and ${SeC_5H_4N}$. Pt and atoms in first coordination sphere were kept in bold.

$[{Pt(\kappa_2-SeC_5H_4N)(dppp)}]^+$	${Pt(dppp)}^{2+}$	${SeC_5H_4N}$	
Pt 1 0.14654	Pt 1 0.13767	Se 1 -0.51484	
Se 2 -0.05301	P 2 1.21965	N 2 -0.51253	
P 3 1.09997	P 3 1.21039	C 3 0.04373	
P 4 1.03107	C 4 -0.38763	C 4 -0.30171	
N 5 -0.57108	C 5 -0.22044	Н 5 0.23272	
C 6 0.07738	Н 6 0.24782	C 6 -0.23091	
C 7 -0.27305	C 7 -0.20830	Н 7 0.21427	
H 8 0.26914	Н 8 0.27281	C 8 -0.35558	
C 9 -0.16336	C 9 -0.16501	Н 9 0.20794	
H 10 0.26198	H 10 0.27488	C 10 0.02201	
C 11 -0.28436	C 11 -0.20125	H 11 0.19489	
H 12 0.26224	H 12 0.27473		
C 13 0.08273	C 13 -0.20482		
H 14 0.24367	H 14 0.26522		
C 15 -0.36941	C 15 -0.39364		
C 16 -0.22953	C 16 -0.21857		
H 17 0.25609	H 17 0.25249		
C 18 -0.21946	C 18 -0.21637		
H 19 0.25507	Н 19 0.27192		
C 20 -0.20777	C 20 -0.18116		
H 21 0.25470	H 21 0.27229		
C 22 -0.21991	C 22 -0.20690		
H 23 0.25442	H 23 0.27119		
C 24 -0.21700	C 24 -0.21059		
H 25 0.25541	H 25 0.24881		
C 26 -0.37056	C 26 -0.75895		
C 27 -0.21995	H 27 0.31459		
H 28 0.26372	H 28 0.29601		
C 29 -0.22762	C 29 -0.48419		
H 30 0.25531	H 30 0.25987		
C 31 -0.21227	H 31 0.29568		
H 32 0.25403	C 32 -0.75212		
C 33 -0.21971	H 33 0.28994		
H 34 0.25404	H 34 0.30952		
C 35 -0.22022	C 35 -0.40244		
Н 36 0.24175	C 36 -0.21071		
C 37 -0.75848	H 37 0.24761		
H 38 0.28473	C 38 -0.21617		
H 39 0.28296	H 39 0.26707		
C 40 -0.47744	C 40 -0.18248		
H 41 0.25149	H 41 0.27078		
H 42 0.27222	C 42 -0.21001		
C 43 -0.74775	H 43 0.27319		
H 44 0.27804	C 44 -0.22529		
H 45 0.27901	H 45 0.25487		
C 46 -0.37946	C 46 -0.38546		
C 47 -0.21050	C 47 -0.20136		
H 48 0.25723	H 48 0.26556		
C 49 -0.22216	C 49 -0.20213		
H 50 0.25503	H 50 0.27449		
C 51 -0.20633	C 51 -0.16173		
H 52 0.25417	H 52 0.27481		
C 53 -0.22494	C 53 -0.20910		

Н 54	0.25510	H 54	0.27288	
C 55	-0.22945	C 55	-0.21791	
Н 56	0.24654	H 56	0.24800	
C 57	-0.37284			
C 58	-0.22668			
Н 59	0.25967			
C 60	-0.22282			
H 61	0.25658			
C 62	-0.21388			
Н 63	0.25657			
C 64	-0.22074			
Н 65	0.25681			
C 66	-0.22575			
Н 67	0.25206			

Table S3. Second order perturbation calculated strength of donor acceptor interaction $(n \rightarrow \sigma^*)$ in [{Pt(κ_2 -SeC₅H₄N)(dppp)}] unit of complex **2a** along with details of corresponding lone pair and antibonding orbital with its occupancy.

Fragments	Lp	M-L* type	Occupancy (M-L *)	ΔE _{M-L*} (kcal/mole)
${Pt(dppp)}/{SeC_{5}H_{4}N}$	n_{Se}	$\sigma^*(Pt-P)$	0.556	147.1
	$n_{\rm N}$	$\sigma^*(Pt-P)$	0.382	89.8

Table S4. EDA analysis of [$\{Pt(\kappa_2-SeC_5H_4N)(dppp)\}$] fragment of complex **2a** along with decomposed orbital interaction energies (E_{Orb}) for both crystal structure and DFT optimized geometry.

Fue oute	Г	E	Б		
Fragments	E _{int} (kaal/mala)	E _{orb}	E _{steric}		
	(Keal/IIIole)	(Kcal/IIIole)	(Kcal/IIIole)		
	-283.2	-164.7	-114.4		
$(\mathbf{D}_{\mathbf{f}}(\mathbf{d}_{\mathbf{f}},\mathbf{m}_{\mathbf{f}}))/((\mathbf{f}_{\mathbf{f}},\mathbf{f}_{\mathbf{f}},\mathbf{f}_{\mathbf{f}},\mathbf{f}_{\mathbf{f}},\mathbf{f}_{\mathbf{f}}))$	Decomposed E_{orb} interactions				
${Pl (appp)}/{(K_2-SeC_5H_4N)}$		-81.3			
(X-ray crystal Structure)	-37.0				
		-9.2			
		-8.0			
_					
	-277.3	-164.3	-113.0		
{Pt (dppp)}/{(κ_2 -SeC ₅ H ₄ N)}	Deco	mposed E_{orb} interact	ions		
(DFT optimized structure)		-77.5			
		-37.8			
		-8.2			
		-8.0			



Figure S2. Second order perturbation theory computed two most stabilizing interactions present in [{Pt(κ_2 -SeC₅H₄N)(dppp)}] unit of complex **2a**; Three-dimensional contour plots for 3c-4e bonding in (P-Pt...Se) which includes the lone pair of Se i.e. 1c/1e donor (left), formal σ *Pt-P orbital (middle) and the overlap between the lone pair and σ *Pt-P orbital is plotted on the right side; the figure below is for 3c-4e bonding in (P-Pt...N) interaction.

Atoms	$[{(Me_2Sn)_5O_3Cl_5}]$	$[{(Me_2Sn)_5O_3Cl_5}]$
	(X-ray Crystal Structure)	(DFT Optimized Geometry)
Sn	1.74902	1.79094
Sn	1.90083	1.91683
Sn	1.96910	2.02771
Sn	1.90001	1.97672
Sn	1.74532	1.79731
Cl	-0.66189	-0.64378
Cl	-0.64394	-0.62379
Cl	-0.71654	-0.65420
Cl	-0.62504	-0.63232
Cl	-0.59738	-0.59245
0	-1.20264	-1.19467
0	-1.21424	-1.21185
0	-1.19626	-1.18400
C	-1.02428	-1.15811
Н	0.22659	0.26378
Н	0.22835	0.25958
Н	0.22781	0.25877
C	-1.03262	-1.15473
Н	0.23387	0.26108
Н	0.23223	0.26108
Н	0.22525	0.26062
C	-1.03432	-1.16623
H	0.22900	0.27309
H	0.23380	0.26436
Н	0.22202	0.25143
C	-1.04145	-1.15840
Н	0.22739	0.27240
Н	0.22688	0.25677
Н	0.23572	0.26241
C	-1.04662	-1.17925
H	0.23182	0.25986
H	0.22030	0.24513
H	0.24212	0.27573
	-1.04535	-1.17472
H	0.23289	0.26263
H	0.24015	0.27690
H C	0.21815	0.25327
	-1.03411	-1.1/121
	0.22/98	0.25017
	0.24475	0.20340
П	0.22985	0.20732
	-1.03400	
	0.24302	0.27344
	0.22155	0.25750
	_1 02550	_1 15006
н	0 22076	0.26052
н н	0.22970	0.20032
н	0.23701	0.20070
	-1 01294	-1 15516
н	0 23386	0.26168
н	0.25500	0.20100
H	0.23252	0.26406

Table S5. NBO computed NPA charges on crystal structure and DFT optimized geometry of [{(Me₂Sn)₅O₃Cl₅}] unit of complex 2a. (For numbering see Figure S1)

Table S6. NBO computed NPA charges on crystal structure and DFT optimized geometry of [{(Et₂Sn)₅O₃Cl₅}] unit of complex 2b. (For numbering see Figure S1)

Atoms	$[\{(Et_2Sn)_5O_3Cl_5\}]$	$[\{(Et_2Sn)_5O_3Cl_5\}]$
	(X-ray Crystal Structure)	(DFT Optimized Geometry)
Sn 1	1.78508	1.84192
Sn 2	1.95514	2.00537
Sn 3	2.05219	2.13025
Sn 4	1,93530	2.06758
Sn 5	1.78084	1.83468
Cl 6	-0.63949	-0.62018
Cl 7	-0 64465	-0 64390
CL 8	-0 70959	-0.65812
Cl 9	-0.64507	-0.63300
Cl 10	-0 54498	-0 58640
0.11	-1 22557	-1 24044
0.12	-1 24093	-1 27413
013	-1 20806	-1 23150
C 14	-0.81986	-0.91465
Н 15	0 22298	0.26278
H 16	0.21947	0.25247
C 17	-0 59381	-0.69602
H 18	0.19628	0.22540
H 10	0.19316	0.22340
Н 20	0.21/84	0.22411
C 21	0.82400	0.25002
	0.22584	-0.90915
П 22	0.22384	0.20334
П 25	0.21995	0.23073
U 24	-0.39078	-0.09559
П 25	0.20777	0.23295
H 20	0.19240	0.22436
H 27	0.20521	0.22970
C 28	-0.85599	-0.91690
H 29	0.21305	0.24783
H 30	0.22318	0.25682
C 31	-0.59116	-0.69//3
H 32	0.19180	0.22406
H 33	0.21564	0.24599
H 34	0.20454	0.24139
C 35	-0.82721	-0.92566
H 36	0.22553	0.25880
H 37	0.21710	0.26376
C 38	-0.59235	-0.68590
H 39	0.19715	0.22669
H 40	0.21215	0.23741
H 41	0.19184	0.22807
C 42	-0.84398	-0.94948
H 43	0.22386	0.25098
H 44	0.23401	0.27725
C 45	-0.59340	-0.68449
H 46	0.20042	0.22761
H 47	0.20083	0.22606
H 48	0.19517	0.23880
C 49	-0.84724	-0.94619
H 50	0.21028	0.24383
H 51	0.23438	0.27013
C 52	-0.58762	-0.69112
Н 53	0.19873	0.22702

Н 54	0.19627	0.22810
Н 55	0.20234	0.24413
C 56	-0.81379	-0.93305
Н 57	0.21378	0.24953
Н 58	0.23652	0.25248
C 59	-0.59406	-0.69652
H 60	0.19444	0.22567
H 61	0.20245	0.23958
Н 62	0.20288	0.24662
C 63	-0.83362	-0.93841
Н 64	0.22792	0.26019
H 65	0.23529	0.26406
C 66	-0.59512	-0.69590
Н 67	0.19876	0.22730
H 68	0.20810	0.24682
Н 69	0.19559	0.23062
C 70	-0.81443	-0.91044
H 71	0.22340	0.25969
Н 72	0.23439	0.26031
C 73	-0.59044	-0.69462
Н 74	0.19972	0.22462
Н 75	0.20156	0.23218
Н 76	0.20971	0.24937
C 77	-0.79974	-0.90961
Н 78	0.23054	0.25745
Н 79	0.22375	0.25796
C 80	-0.59670	-0.69284
H 81	0.19855	0.22470
H 82	0.20806	0.24621
H 83	0.20364	0.23575

Table S7. NBO computed NPA charges on DFT optimized geometry of $[Sn(CH_3)_2Cl_2]$ complex and monomer model extracted from $[\{(Me_2Sn)_5O_3Cl_5\}]$ (see Sn@1 centre in Figure S1) unit of complex **2a**.



Table S8. Second order perturbation theory calculated strength of donor acceptor interaction $(n \rightarrow \sigma^*)$ in [{ $(Me_2Sn)_5O_3Cl_5$ }] unit of complex **2a** along with the details of corresponding lone pair and antibonding orbital with its occupancy.

Donor	Acceptor M-L* type	Occupancy (M-L*)	ΔE_{M-L*} (kcal/mole)
$n_{Cl}(LP)$	$\sigma^*(Sn-Cl)$	0.182	40.2
n _o (LP)	$\sigma^*(Sn-Cl)$	0.154	32.5
n _o (LP)	$\sigma^*(Sn-O)$	0.127	22.8
n _o (LP)	$\sigma^*(Sn-O)$	0.153	19.41
n _o (LP)	$\sigma^*(Sn-O)$	0.152	19.07
n _{Cl} (LP)	$\sigma^*(Sn-Cl)$	0.144	19.42
	$Donor$ $n_{C1}(LP)$ $n_{O}(LP)$ $n_{O}(LP)$ $n_{O}(LP)$ $n_{O}(LP)$ $n_{C1}(LP)$	DonorAcceptor M-L* type $n_{Cl}(LP)$ $\sigma^*(Sn-Cl)$ $n_0(LP)$ $\sigma^*(Sn-Cl)$ $n_0(LP)$ $\sigma^*(Sn-O)$ $n_0(LP)$ $\sigma^*(Sn-O)$ $n_0(LP)$ $\sigma^*(Sn-O)$ $n_0(LP)$ $\sigma^*(Sn-O)$ $n_0(LP)$ $\sigma^*(Sn-O)$ $n_0(LP)$ $\sigma^*(Sn-O)$	$\begin{array}{c cccc} Donor & Acceptor & Occupancy \\ M-L^* type & (M-L^*) \\ n_{Cl}(LP) & \sigma^*(Sn-Cl) & 0.182 \\ n_{O}(LP) & \sigma^*(Sn-Cl) & 0.154 \\ n_{O}(LP) & \sigma^*(Sn-O) & 0.127 \\ n_{O}(LP) & \sigma^*(Sn-O) & 0.153 \\ n_{O}(LP) & \sigma^*(Sn-O) & 0.152 \\ n_{Cl}(LP) & \sigma^*(Sn-Cl) & 0.144 \\ \end{array}$



n_{ci}

Figure S3. Second order perturbation theory computed six most stabilizing interactions present in $\{(Me_2Sn)_5O_3Cl_5\}$ core of complex **2a**. These three dimensional contour plots are arranged according to the interactions present in Table S8.

Table S9. EDA analysis of $\{(Me_2Sn)_5O_3Cl_5\}$ fragment of complex **2a** along with decomposed orbital interaction energy (E_{Orb}) for all the three fragments.

Fragments	E _{int} (kcal/mole)	E _{orb} (kcal/mole)	E _{steric} (kcal/mole)
	-102.5	-105.8	3.34
$\{(M_{2}, S_{2}), O_{1}, C_{1}\} = \{S_{2} \otimes C_{1}, M_{2}\}$	Decom	$nposed E_{orb}$ interactions	
$\{(1010_2311)_40501_3\}\dots\{3110_001_21010_2\}$		-66.0	
		-11.3	
		-9.3	
	-705.1	-254.2	-450.8
	Decomposed E_{orb} interactions		
$(M_{2}, \Omega_{2}) \cap (\Omega_{1}) = (\Omega_{2} \cap \Omega_{2})$		-74.2	
$\{(Me_2Sn)_4O_5Cl_5\}\dots\{Sn(a)SNe_2\}$		-43.7	
		-20.0	
		-14.0	
		-10.7	
		-10.9	
	-313.5	-176.8	-136.7
$\{(Me_2Sn)_4O_5Cl_4\}\dots\{Sn@2ClMe_2\}$	Decom	nposed E_{orb} interact	tions
		-78.4	
		-30.9	
		-11.6	

Table S10. Second order perturbation theory calculated strength of donor acceptor interaction $(n \rightarrow \sigma^*)$ in {(Ete₂Sn)₅O₃Cl₅} unit of complex **2b** along with details of corresponding lone pair and antibonding orbital with its occupancy.

Molecule	Donor	Acceptor M-L* type	Occupancy (M-L*)	ΔE_{M-L*} (kcal/mole)
	n _o (LP)	$\sigma^*(Sn-Cl)$	0.218	47.1
	n _o (LP)	$\sigma^*(Sn-Cl)$	0.216	41.7
$[{(Et_2Sn)_5O_3Cl_5}]$	n _o (LP)	$\sigma^*(Sn-Cl)$	0.154	32.3
	$n_{O}(LP)$	$\sigma^*(Sn-O)$	0.138	20.7
	n _o (LP)	$\sigma^*(Sn-O)$	0.161	18.3
	n _o (LP)	$\sigma^*(Sn-O)$	0.158	18.8
	n _{Cl} (LP)	$\sigma^*(SnCl)$	0.153	24.9

Pt 1 0.11302 P 2 1.03853 P 3 1.03011 Se 4 -0.10529 Cl 5 -0.49317 N 6 -0.54813 C 7 -0.34010 C 8 -0.22528 H 9 0.23674 C 10 -0.22507 H 11 0.24526 C 12 -0.22626 H 13 0.24214 C 14 -0.22762 H 15 0.24237 C 16 -0.22127 H 17 0.25087 C 18 -0.36214 C 19 -0.19842 H 20 0.26662 C 21 -0.23246 H 22 0.24667 C 23 -0.22433 H 24 0.24117 C 25 -0.23303 H 26 0.24208 C 27 -0.22433 H 28 0.23490 C 29 -0.75946 H 30 0.27528 H 31 0.27093 C 32 -0.47401 H 33 0.24746 H 34 0.25631 C 35 -0.74837 H 36 0.26690 H 37 0.27213 C 38 -0.36579 C 39 -0.23876 H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24024 C 45 -0.22528 H 45 0.24077	$[\{PtCl (SeC_5H_4N)(dppp)\}]$			
P 31.03011Se 4-0.10529Cl 5-0.49317N 6-0.54813C 7-0.34010C 8-0.22528H 90.25674C 10-0.22507H 110.24526C 12-0.22626H 130.24214C 14-0.22762H 150.24237C 16-0.2217H 170.25087C 18-0.36214C 19-0.19842H 200.26962C 21-0.23246H 220.24667C 23-0.22666H 240.24117C 25-0.23303H 260.24208C 27-0.22433H 280.23490C 29-0.75946H 300.27528H 310.27093C 32-0.47401H 330.24746H 340.25631C 35-0.74837H 360.26690H 370.27213C 38-0.36579C 39-0.23876H 400.24062C 41-0.23968H 420.24151C 43-0.21981H 440.24084C 45-0.22722H 460.24254C 47-0.20927H 480.28234C 49-0.33700C 52-0.23188H 530.24077	Pt 1 P 2	0.11302 1.05853		
Se 4 -0.10529 Cl 5 -0.49317 N 6 -0.54813 C 7 -0.34010 C 8 -0.22528 H 9 0.25674 C 10 -0.22507 H 11 0.24526 C 12 -0.22626 H 13 0.24214 C 14 -0.22762 H 15 0.24237 C 16 -0.2217 H 17 0.25087 C 18 -0.36214 C 19 -0.19842 H 20 0.26962 C 21 -0.23246 H 22 0.24667 C 23 -0.22636 H 24 0.24117 C 25 -0.23303 H 26 0.24208 C 27 -0.22433 H 28 0.23490 C 29 -0.75946 H 30 0.27528 H 31 0.27093 C 32 -0.47401 H 33 0.24746 H 34 0.25631 C 35 -0.78936 H 37 0.27213 C 38 -0.36579 C 39 -0.23876 H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.2722 H 46 0.24208 C 47 -0.2027 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110	P 3	1.03011		
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H 34 0.25631 C 35 -0.74837 H 36 0.26690 H 37 0.27213 C 38 -0.36579 C 39 -0.23876 H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.22722 H 46 0.24554 C 47 -0.20927 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110 C 54 -0.22528 H 55 0.24077	H 33	0.24746		
$ \begin{array}{cccccc} C 35 & & -0.74837 \\ H 36 & & 0.26690 \\ H 37 & & 0.27213 \\ C 38 & & -0.36579 \\ C 39 & & -0.23876 \\ H 40 & & 0.24062 \\ C 41 & & -0.23968 \\ H 42 & & 0.24151 \\ C 43 & & -0.21981 \\ H 44 & & 0.24084 \\ C 45 & & -0.22722 \\ H 46 & & 0.24554 \\ C 47 & & -0.20927 \\ H 48 & & 0.28234 \\ C 49 & & -0.33700 \\ C 50 & & -0.21969 \\ H 51 & & 0.24976 \\ C 52 & & -0.23188 \\ H 53 & & 0.24110 \\ C 54 & & -0.22528 \\ H 55 & & 0.24077 \\ \end{array} $	H 34	0.25631		
H 36 0.26690 H 37 0.27213 C 38 -0.36579 C 39 -0.23876 H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.22722 H 46 0.24554 C 47 -0.20927 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110 C 54 -0.22528 H 55 0.24077	C 35	-0.74837		
H 37 0.27213 C 38 -0.36579 C 39 -0.23876 H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.22722 H 46 0.24554 C 47 -0.20927 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110 C 54 -0.22528 H 55 0.24077	H 36	0.26690		
$\begin{array}{ccccc} C 38 & & -0.36579 \\ C 39 & & -0.23876 \\ H 40 & & 0.24062 \\ C 41 & & -0.23968 \\ H 42 & & 0.24151 \\ C 43 & & -0.21981 \\ H 44 & & 0.24084 \\ C 45 & & -0.22722 \\ H 46 & & 0.24554 \\ C 47 & & -0.20927 \\ H 48 & & 0.28234 \\ C 49 & & -0.33700 \\ C 50 & & -0.21969 \\ H 51 & & 0.24976 \\ C 52 & & -0.23188 \\ H 53 & & 0.24110 \\ C 54 & & -0.22528 \\ H 55 & & 0.24077 \end{array}$	Н 37	0.27213		
$ \begin{array}{ccccc} C \ 39 & & -0.23876 \\ H \ 40 & & 0.24062 \\ C \ 41 & & -0.23968 \\ H \ 42 & & 0.24151 \\ C \ 43 & & -0.21981 \\ H \ 44 & & 0.24084 \\ C \ 45 & & -0.22722 \\ H \ 46 & & 0.24554 \\ C \ 47 & & -0.20927 \\ H \ 48 & & 0.28234 \\ C \ 49 & & -0.33700 \\ C \ 50 & & -0.21969 \\ H \ 51 & & 0.24976 \\ C \ 52 & & -0.23188 \\ H \ 53 & & 0.24110 \\ C \ 54 & & -0.22528 \\ H \ 55 & & 0.24077 \\ \end{array} $	C 38	-0.36579		
H 40 0.24062 C 41 -0.23968 H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.22722 H 46 0.24554 C 47 -0.20927 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110 C 54 -0.22528 H 55 0.24077	C 39	-0.23876		
$ \begin{array}{c cccc} C \ 41 & & -0.23968 \\ H \ 42 & & 0.24151 \\ C \ 43 & & -0.21981 \\ H \ 44 & & 0.24084 \\ C \ 45 & & -0.22722 \\ H \ 46 & & 0.24554 \\ C \ 47 & & -0.20927 \\ H \ 48 & & 0.28234 \\ C \ 49 & & -0.33700 \\ C \ 50 & & -0.21969 \\ H \ 51 & & 0.24976 \\ C \ 52 & & -0.23188 \\ H \ 53 & & 0.24110 \\ C \ 54 & & -0.22528 \\ H \ 55 & & 0.24077 \\ \end{array} $	H 40	0.24062		
H 42 0.24151 C 43 -0.21981 H 44 0.24084 C 45 -0.22722 H 46 0.24554 C 47 -0.20927 H 48 0.28234 C 49 -0.33700 C 50 -0.21969 H 51 0.24976 C 52 -0.23188 H 53 0.24110 C 54 -0.22528 H 55 0.24077	C 41	-0.23968		
$ \begin{array}{ccccc} C \ 43 & & -0.21981 \\ H \ 44 & & 0.24084 \\ C \ 45 & & -0.22722 \\ H \ 46 & & 0.24554 \\ C \ 47 & & -0.20927 \\ H \ 48 & & 0.28234 \\ C \ 49 & & -0.33700 \\ C \ 50 & & -0.21969 \\ H \ 51 & & 0.24976 \\ C \ 52 & & -0.23188 \\ H \ 53 & & 0.24110 \\ C \ 54 & & -0.22528 \\ H \ 55 & & 0.24077 \\ \end{array} $	H 42	0.24151		
H 440.24084C 45-0.22722H 460.24554C 47-0.20927H 480.28234C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	C 43	-0.21981		
C 45-0.22722H 460.24554C 47-0.20927H 480.28234C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	H 44	0.24084		
H 460.24554C 47-0.20927H 480.28234C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	C 45	-0.22722		
C 47-0.20927H 480.28234C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	H 46	0.24554		
H 480.28234C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	C 47	-0.20927		
C 49-0.33700C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	H 48	0.28234		
C 50-0.21969H 510.24976C 52-0.23188H 530.24110C 54-0.22528H 550.24077	C 49	-0.33700		
H 51 C 52 H 53 C 54 H 55 D .24976 -0.23188 H 0.24110 -0.22528 0.24077	C 50	-0.21969		
C 52 H 53 C 54 H 55 C 54 C 54 C 54 C 54 C 54 C 54 C 54 C	H 51	0.24976		
H 53 C 54 H 55 O.24110 -0.22528 O.24077	C 52	-0.23188		
C 54 H 55	H 53	0.24110		
H 55 0.24077	C 54	-0 22528		
	H 55	0.24077		

Table S11. NBO computed NPA charges on DFT optimized geometry of $[{PtCl(SeC_5H_4N)(dppp)}]$ fragment of complex **2b**.

C 56	-0.22843
Н 57	0.24313
C 58	-0.20564
Н 59	0.25210
C 60	-0.27795
H 61	0.24977
C 62	-0.20287
Н 63	0.24087
C 64	-0.30198
Н 65	0.24006
C 66	0.04743
Н 67	0.21386
C 68	0.07016

DFT optimized geometries

	[{Pt(k2-SeC5H4	N)(dppp)}] unit of c	complex 2a	
	E_{SCF} =	= -4495.39087860 E	h	
	G =	-4494.93057201 Eh		
Pt	8.660687000000	2.061076000000	3.564174000000	
Se	10.874042000000	3.230703000000	3.613252000000	
Р	8.980038000000	0.779256000000	5.403547000000	
Р	6.571942000000	1.162657000000	3.315585000000	
Ν	8.889371000000	3.227011000000	1.806942000000	
С	10.131585000000	3.778197000000	1.944099000000	
С	10.680488000000	4.590407000000	0.938527000000	
Н	11.679586000000	5.027583000000	1.073588000000	
С	9.928514000000	4.809021000000	-0.222826000000	
Н	10.333380000000	5.440772000000	-1.028047000000	
С	8.660396000000	4.211259000000	-0.361255000000	
Н	8.053379000000	4.356100000000	-1.265031000000	
С	8.169993000000	3.418793000000	0.681057000000	
Н	7.188764000000	2.928953000000	0.630032000000	
С	10.305804000000	1.390854000000	6.499224000000	
С	10.286670000000	2.750312000000	6.883410000000	
Н	9.50778000000	3.424815000000	6.494786000000	
С	11.277697000000	3.245115000000	7.743419000000	
Н	11.264441000000	4.304793000000	8.038412000000	
C	12.290745000000	2.391869000000	8.214639000000	
Н	13.072385000000	2.784534000000	8.882061000000	
C	12.310703000000	1.040795000000	7.830302000000	
Н	13.105467000000	0.373914000000	8.196485000000	
C	11.319445000000	0.534348000000	6.974552000000	
Н	11.338834000000	-0.522920000000	6.671785000000	
C	9.489786000000	-0.882887000000	4.849126000000	
C	10.550301000000	-0.951993000000	3.916044000000	
H	11.045234000000	-0.026192000000	3.580895000000	
C	10.962898000000	-2.194436000000	3.41/643000000	
H	11./95361000000	-2.244615000000	2.699955000000	
C	10.309315000000	-3.3/0906000000	3.826586000000	
H	10.626425000000	-4.34490600000	3.424/32000000	
C	9.25493/000000	-3.304115000000	4./50/68000000	
Н	8./44914000000	-4.222963000000	5.075646000000	
C	8.849986000000	-2.064169000000	5.271508000000	
H	8.034363000000	-2.032440000000	6.006994000000	
	7.54550000000	0.394/9100000	0.554198000000	
Н	7.867625000000	-0.09/446000000	7.358839000000	
H	7.4498570000000	1.595325000000	7.027529000000	
C	0.2001000000000000000000000000000000000	0.13320000000000000000000000000000000000	5.934998000000 5.537722000000	
H	0.28394/000000	-0.800980000000	5.527755000000 6.780502000000	
H	5.4/2552000000	0.073012000000	0./8930200000	
C	3.008332000000	1.094608000000	4.89801000000	

Н	5.554574000000	2.139516000000	5.269287000000	
Н	4.571737000000	0.795026000000	4.642868000000	
С	6.609273000000	-0.552328000000	2.693781000000	
С	7.766416000000	-0.992263000000	2.016988000000	
Н	8.603723000000	-0.292423000000	1.871205000000	
С	7.853499000000	-2.314823000000	1.560505000000	
Н	8.760527000000	-2.652707000000	1.039043000000	
С	6.790552000000	-3.205928000000	1.782627000000	
Н	6.862982000000	-4.246719000000	1.433012000000	
С	5.632303000000	-2.770807000000	2.450142000000	
Н	4.797023000000	-3.467029000000	2.618007000000	
С	5.536546000000	-1.446261000000	2.903361000000	
Н	4.621194000000	-1.115553000000	3.417094000000	
С	5.497215000000	2.127015000000	2.199285000000	
С	4.933735000000	1.560990000000	1.037552000000	
Н	5.098453000000	0.498131000000	0.806075000000	
С	4.172741000000	2.364919000000	0.171946000000	
Н	3.735220000000	1.924220000000	-0.736371000000	
С	3.970562000000	3.724319000000	0.463813000000	
Н	3.374885000000	4.349917000000	-0.217713000000	
С	4.530706000000	4.288133000000	1.624769000000	
Н	4.376981000000	5.353713000000	1.851237000000	
С	5.298328000000	3.495723000000	2.489361000000	
Н	5.769673000000	3.948021000000	3.376506000000	
	{Me ₁₀ Sn ₅ (μ-O)	₃ (μ-Cl)Cl ₄ } unit of c	complex 2a	
	E _{SCF}	= -3998.50308706 E	h	
	G =	-3998.21294200 Eh		
Sn	2 52060100000	0.465115000000	7 240425000000	

Sn	3.539601000000	9.465115000000	7.349425000000	
Sn	5.529300000000	6.348476000000	6.387937000000	
Sn	6.858948000000	9.403912000000	5.813783000000	
Sn	8.767952000000	6.879965000000	4.492600000000	
Sn	10.026890000000	10.055910000000	3.507978000000	
Cl	2.413090000000	7.233159000000	7.877523000000	
Cl	4.958150000000	11.589076000000	6.728332000000	
Cl	6.841445000000	4.280972000000	5.522554000000	
Cl	10.947532000000	7.521708000000	2.867810000000	
Cl	8.957680000000	12.131343000000	4.347821000000	
0	5.190693000000	8.471176000000	6.782016000000	
0	7.214103000000	7.334962000000	5.786761000000	
0	8.840710000000	8.928028000000	4.656337000000	
С	2.166563000000	9.856383000000	5.744286000000	
Н	2.302257000000	10.891421000000	5.383148000000	
Н	1.133438000000	9.678339000000	6.095533000000	
Н	2.404042000000	9.133619000000	4.941006000000	
С	3.533863000000	10.086894000000	9.403397000000	
Н	4.540445000000	9.860894000000	9.803051000000	
Н	2.766817000000	9.518767000000	9.959696000000	
Н	3 358240000000	11 176882000000	9 455341000000	

С	4.089221000000	6.258509000000	4.806839000000	
Н	3.093758000000	6.484656000000	5.230251000000	
Н	4.113225000000	5.260485000000	4.334943000000	
Н	4.378698000000	7.037383000000	4.075819000000	
С	5.669937000000	5.760635000000	8.43374000000	
H	4.868276000000	6.268624000000	8,998164000000	
Н	6 669261000000	6 083310000000	8 782018000000	
H	5 581256000000	4 662296000000	8 509233000000	
C	5 979333000000	9.866522000000	3 925628000000	
н	4 892333000000	10 004723000000	4 05786700000	
Н	6 193495000000	9 024021000000	3 241552000000	
н	6 441339000000	10 797052000000	3 549962000000	
C II	8 014615000000	10 15484900000	7 430557000000	
н	7 344642000000	10.342231000000	8 28736300000	
и П	8 406822000000	11 00118000000	7.098163000000	
и П	8.490822000000	0 380771000000	7.668925000000	
	7 72071600000	<i>5.38922</i> 1000000	2 70602600000	
	7.730710000000	7 199022000000	2.004672000000	
П	6 681733000000	6 11004000000	2.004072000000	
П	0.001/33000000	0.110949000000	2.90/388000000	
П	8.208348000000	5.443084000000	2.200232000000	
	0.525022000000	5.911439000000	5.820498000000	
П	9.525925000000	5.550805000000	6.224245000000	
Н	10./10302000000	6.702392000000	6.324343000000 5.24608000000	
П	10.800680000000	5.252982000000	5.246989000000	
C	9.326860000000	10.246915000000	1.488077000000	
Н	9.440191000000	11.296/33000000	1.160303000000	
Н	8.232434000000	9.985555000000	1.500386000000	
Н	9.880857000000	9.55250000000	0.831868000000	
C U	11.9/9265000000	10.420364000000	4.31685000000	
H	12.08061000000	11.494614000000	4.555458000000	
H	12.745962000000	10.089831000000	3.592662000000	
Н	12.062206000000	9.812961000000	5.237275000000	
	{FtSn_(11_0)	.(u. CDCL) unit of a	omnlov ?h	
	τ Ε	- 4201 27082848 E	h	
	L_{SCF}	-4391.37982848 Li	II	
~	-0	-4390.81/38041 Ell		
Sn	9.910206000000	5.135761000000	12.060805000000	
Sn	9.359110000000	8.806060000000	12.6/52/3000000	
Sn	6.609699000000	6.857328000000	12.195383000000	
Sn	5.799740000000	10.103569000000	12.896733000000	
Sn	2.890099000000	8.039316000000	12.560537000000	
Cl	7.644800000000	3.869648000000	11.880022000000	
Cl	11.955635000000	6.702918000000	12.394384000000	
Cl	8.807318000000	11.359533000000	13.148181000000	
Cl	3.045651000000	10.676022000000	13.352411000000	
Cl	3.219490000000	5.694573000000	11.78292000000	

6.746772000000

8.805785000000

12.386309000000

12.400341000000

0

0

8.761203000000

7.329682000000

0	4.852488000000	8.359743000000	12.325116000000
С	10.339000000000	4.909317000000	9.949332000000
Н	9.513841000000	4.292406000000	9.542941000000
Н	10.233090000000	5.93698000000	9.545192000000
С	11.721205000000	4.327979000000	9.654014000000
Н	11.925083000000	4.292129000000	8.560801000000
Н	11.822396000000	3.290190000000	10.036646000000
Н	12.519148000000	4.937538000000	10.125362000000
С	10.544865000000	3.887001000000	13.722446000000
Н	9.727380000000	3.150913000000	13.849238000000
Н	11.435897000000	3.349223000000	13.335422000000
С	10.870405000000	4.642331000000	15.009005000000
Н	11.644880000000	5.415308000000	14.833067000000
Н	11.246854000000	3.951266000000	15.795439000000
Н	9.976222000000	5.151528000000	15.420774000000
С	9.983321000000	8.560053000000	14.722175000000
Н	9.098832000000	8.861755000000	15.319479000000
Н	10.140016000000	7.472050000000	14.841834000000
С	11.225279000000	9.369846000000	15.084764000000
Н	11.487631000000	9.247845000000	16.158812000000
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Н	12.10104000000	9.037898000000	14.490077000000
С	10.205778000000	9.231455000000	10.740729000000
Н	10.959168000000	10.028379000000	10.896648000000
Н	10.740738000000	8.308732000000	10.446651000000
С	9.125809000000	9.646399000000	9.744838000000
Н	9.561271000000	9.872769000000	8.746911000000
Н	8.586521000000	10.551924000000	10.088844000000
Н	8.368739000000	8.849192000000	9.604224000000
С	6.380241000000	6.502027000000	10.087402000000
Н	7.423376000000	6.391857000000	9.729048000000
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С	5.616296000000	7.593626000000	9.346637000000
Н	5.582971000000	7.385682000000	8.254632000000
Н	6.084014000000	8.589830000000	9.480814000000
Н	4.572740000000	7.668120000000	9.708658000000
С	6.037035000000	6.146208000000	14.148396000000
Н	5.498626000000	7.010137000000	14.585881000000
Н	5.295673000000	5.346682000000	13.957550000000
С	7.191835000000	5.678037000000	15.024848000000
Н	6.830998000000	5.362929000000	16.028441000000
Н	7.946149000000	6.475399000000	15.17619000000
Н	7.706661000000	4.811446000000	14.565761000000
С	5.989733000000	10.150880000000	15.041895000000
Н	5.183075000000	9.488830000000	15.415604000000
Н	6.966749000000	9.668896000000	15.242841000000
С	5.907352000000	11.554865000000	15.635879000000
Н	6.000536000000	11.532013000000	16.743931000000
Н	4.937548000000	12.036416000000	15.393688000000
Н	6.724540000000	12.195936000000	15.246650000000

С	5.784997000000	11.555687000000	11.307634000000
Η	5.694080000000	12.541666000000	11.804811000000
Η	6.808982000000	11.489354000000	10.892648000000
С	4.694659000000	11.332324000000	10.263151000000
Η	4.749271000000	12.098814000000	9.459247000000
Η	3.686786000000	11.389522000000	10.720542000000
Н	4.786603000000	10.338968000000	9.78059000000
С	1.685140000000	8.762096000000	10.908905000000
Н	0.937252000000	9.431030000000	11.380284000000
Н	2.387357000000	9.415030000000	10.353509000000
С	1.053858000000	7.697150000000	10.016245000000
Н	0.482222000000	8.163656000000	9.183443000000
Н	0.353576000000	7.044854000000	10.577303000000
Н	1.818638000000	7.028931000000	9.573829000000
С	2.326586000000	7.640785000000	14.618195000000
Н	3.151299000000	8.105598000000	15.195627000000
Н	1.431482000000	8.271863000000	14.793091000000
С	2.104065000000	6.178548000000	14.992842000000
Н	1.834324000000	6.079907000000	16.067704000000
Н	3.011393000000	5.569284000000	14.813936000000
Н	1.291562000000	5.714776000000	14.397708000000

[{PtCl(SeC₅H₄N)(dppp)}] unit of complex 2b

 E_{SCF} = -4955.85449364 Eh

G = -4955.39780556 Eh

Pt	4.919413000000	16.410809000000	5.049215000000
Р	4.644988000000	15.896186000000	2.881490000000
Р	2.818147000000	17.289685000000	5.145800000000
Se	7.031896000000	15.046752000000	5.052592000000
Cl	5.288401000000	16.933717000000	7.321049000000
Ν	5.070123000000	13.560323000000	6.445450000000
С	6.189837000000	15.783122000000	1.898786000000
С	7.201930000000	16.736567000000	2.138866000000
Н	7.069559000000	17.478830000000	2.943307000000
С	8.380878000000	16.711415000000	1.381084000000
Н	9.173360000000	17.448657000000	1.579937000000
С	8.556661000000	15.735331000000	0.384046000000
Η	9.487557000000	15.709634000000	-0.202759000000
С	7.548255000000	14.787624000000	0.143597000000
Η	7.686981000000	14.018522000000	-0.631671000000
С	6.362481000000	14.810559000000	0.896099000000
Н	5.577469000000	14.060100000000	0.718359000000
С	3.791387000000	14.291263000000	2.647200000000
С	4.347870000000	13.164778000000	3.292639000000
Η	5.285509000000	13.280573000000	3.857836000000
С	3.697927000000	11.926061000000	3.224008000000
Η	4.138660000000	11.056174000000	3.734084000000
С	2.482768000000	11.800936000000	2.527682000000
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[SnCl ₂ (CH ₃) ₂] complex				
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C	4.467219602733	0.067137912128	1.612438953779	
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