

### Supporting information

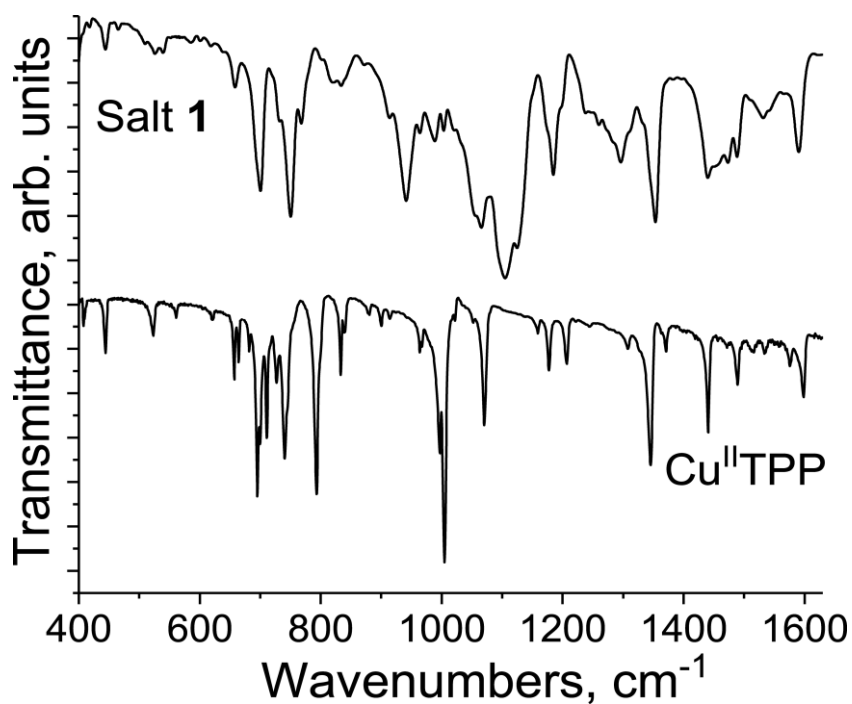
**Table S1.** IR spectra of pristine porphyrins and salts **1 - 4**.

Components	Cryptand	Bu <sub>3</sub> Me PI	Cu <sup>II</sup> (TPP <sup>2-</sup> )	{Crypt(Cs <sup>+</sup> ) <sub>2</sub> {Cu <sup>II</sup> (TPP <sup>+</sup> ) <sup>2-</sup> }	Ni <sup>II</sup> (TPP <sup>2-</sup> )	{Crypt(Cs <sup>+</sup> ) {Ni(TPP)} <sup>-</sup> ·C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	{Bu <sub>3</sub> MeP <sup>+</sup> {Ni(TPP)} <sup>-</sup> ·C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	Fe <sup>II</sup> (TPP <sup>2-</sup> )	{Bu <sub>3</sub> MeP <sup>+</sup> {Fe <sup>I</sup> (TPP <sup>2-</sup> ) <sup>-</sup> ·C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>
				( <b>1</b> )		( <b>2</b> )	( <b>3</b> )		( <b>4</b> )
M <sup>II</sup> TPP			444w 524w 656m 696s 711m 728m 742s 793s 833w 898w 995m 1005vs 1070s 1177w 1310w 1347s 1369w 1440m 1490w 1534w 1600w 3022w 3051w	444w 527w* 656w 700s - 731m* 752s 768m 834w 872w 989m 1004m 1056s 1066s* 1186m 1296m* 1355vs* - 1440m* 1488m* 1591m 3021w 3047w	444w 525w 560w 663w 696s 708m 723w 741s 791s 834w 1005vs 1023w 1075m 1176w 1201w 1247w 1352s 1437m 1460w 1490w 1533w 1599m 3021w 3057w	444w 528w* 557w 666w 702s 715m 733m* 752s 787m 833w 983s* - 1069s* 1176w 1201w 1249w 1344s 1439m* 1460w 1490w* 1528m 1596m 3023w 3053w	- - 565w - 702s 712m* 731m 752m 781m 843w 1005m 1017m 1060s* 1175w 1201w 1240w* 1338s 1436m 1454s 1488m* 1530w 1595w 3022w 3054w	433w 523w 660w 700s 719m 750s 803s 1000vs 1068m 1171m 1201w 1335m 1441m 1485w 1517w 1595m 3016w 3052w	420w 523w 662w 700s 714m* 750s 820m* 989s 1068m 1175w 1198w* 1356s 1439s 1494w* - 1597m 3020w 3052w
Cation <sup>+</sup>	Crypt(Cs <sup>+</sup> )			Crypt(Cs <sup>+</sup> )		Crypt(Cs <sup>+</sup> )	Bu <sub>3</sub> MeP <sup>+</sup>		Bu <sub>3</sub> MeP <sup>+</sup>
	476w 528w 581w 735m 922m 948w 982m 1038w 1071m 1100s 1127s 1213w 1295m 1329m 1360s 1446m 1462m 1490w 2790w 2877w 2943w	456w 719w 767w 820m 946m 972m 1009w 1079w 1100m 1205w 1237w 1279w 1311m 1384m 1464m 2878s 2958s		464w 527w* - 731m* 914m 942s 964m - 1066s* 1104vs 1125s - 1296m* - 1355vs* 1440m* 1473m 1488m* 2806m 2868m 2939m		- 528w* - 733m - 942m 983s* - 1069s* 1106vs 1126m - 1298w - 1354s 1439m 1460w 1490w* 2807m 2861m 2941m	464w 712m* 761m - 940w - 1005m* 1060s* - 1216w 1240w* 1294s 1320m 1381w 1454s* 2872w 2959w		464w 714m* 765m 820m* 944s 973s* 1002w 1068m 1099m 1198w* 1230w 1278w 1307m 1384m 1460s 2872w 2960w
Solvent C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>				731m* 1020w 1488m*		733m* 1020w 1490w*	- 1026w 1488m*		- 1020w 1494w*

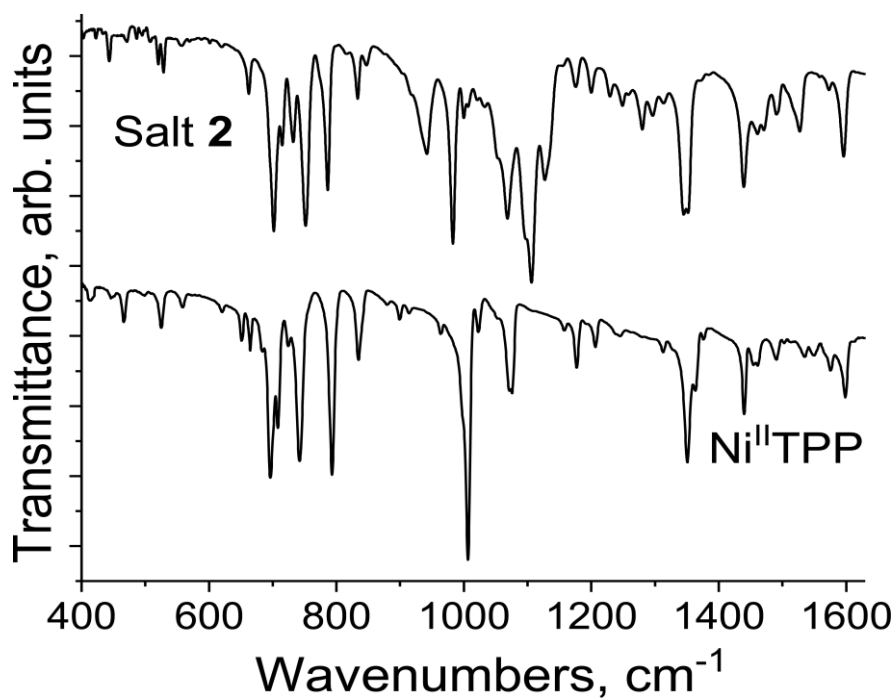
Abbreviation: w: weak, m: middle, s: strong, vs: very strong.

\*: bands are overlapped.

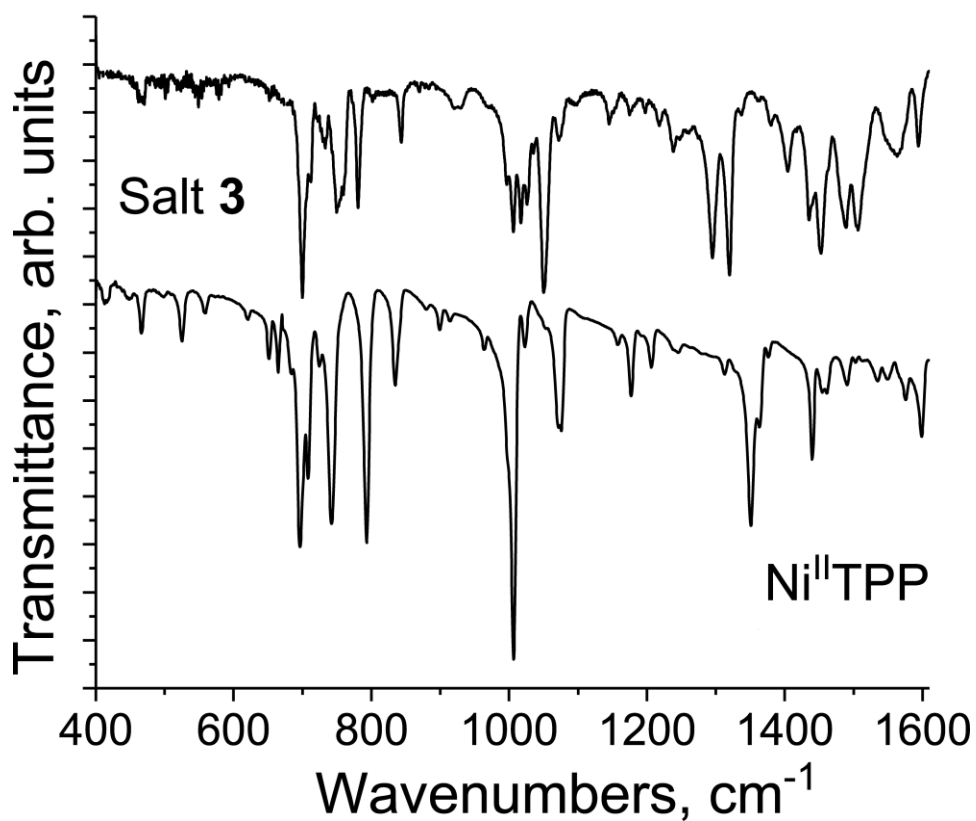
**IR spectra of starting metal phthalocyanines and their anion-radical salts**



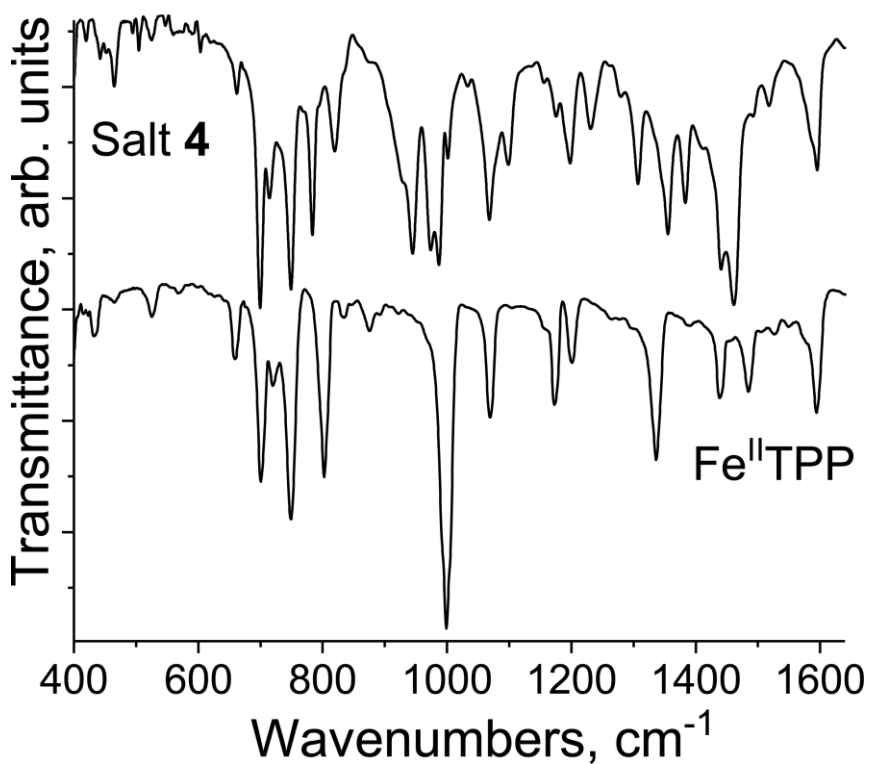
**Figure S1.** IR spectra of pristine Cu<sup>II</sup>(TPP<sup>2-</sup>) and salt {cryptand(Cs<sup>+</sup>)<sub>2</sub>{Cu<sup>II</sup>(TPP<sup>4-</sup>)<sup>2-</sup>} (1) in KBr pellets. Pellet for 1 was prepared in anaerobic conditions.



**Figure S2.** IR spectra of pristine Ni<sup>II</sup>(TPP<sup>2-</sup>) and salt {cryptand(Cs<sup>+</sup>)<sub>2</sub>{Ni(III)(TPP)}<sup>-</sup>·C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub> (2) in KBr pellets. Pellet for 2 was prepared in anaerobic conditions.



**Figure S3.** IR spectra of pristine  $\text{Ni}^{\text{II}}(\text{TPP}^{2-})$  and salt  $(\text{Bu}_3\text{MeP}^+)\{\text{Ni}(\text{TPP})\}^- \cdot \text{C}_6\text{H}_5\text{CH}_3$  (**3**) in KBr pellets. Pellet for **3** was prepared in anaerobic conditions.



**Figure S4.** IR spectra of pristine  $\text{Fe}^{\text{II}}(\text{TPP}^{2-})$  and salt  $(\text{Bu}_3\text{MeP}^+)\{\text{Fe}^{\text{I}}(\text{TPP}^{2-})\}^- \cdot \text{C}_6\text{H}_5\text{CH}_3$  (**4**) in KBr pellets. Pellets for both compounds were prepared in anaerobic conditions.

Crystal structures of salts 1 and 2.

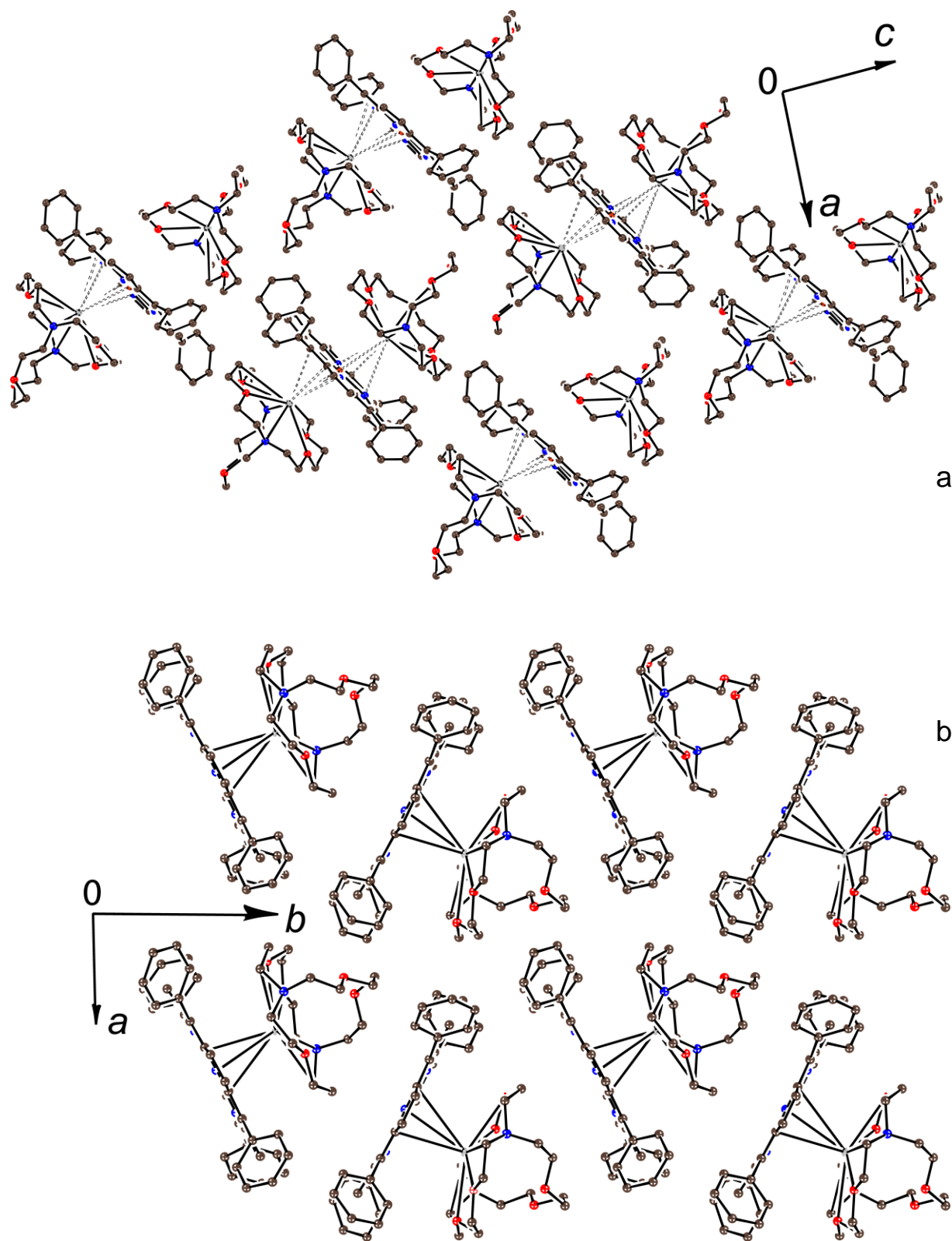
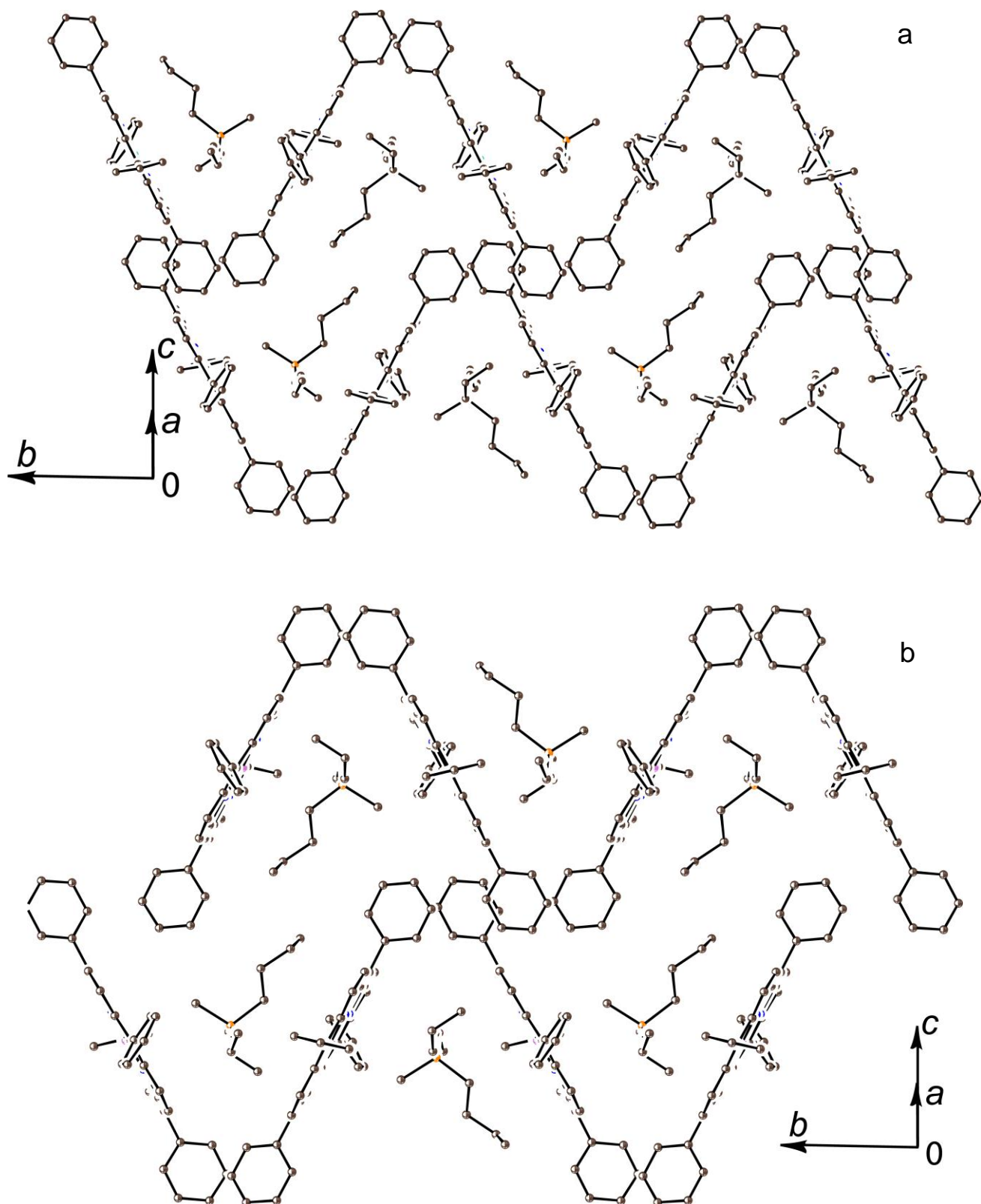


Figure S5. View on the packing of salts 1 (a) and 2 (b).

### Crystal structures of salts 3 and 4.

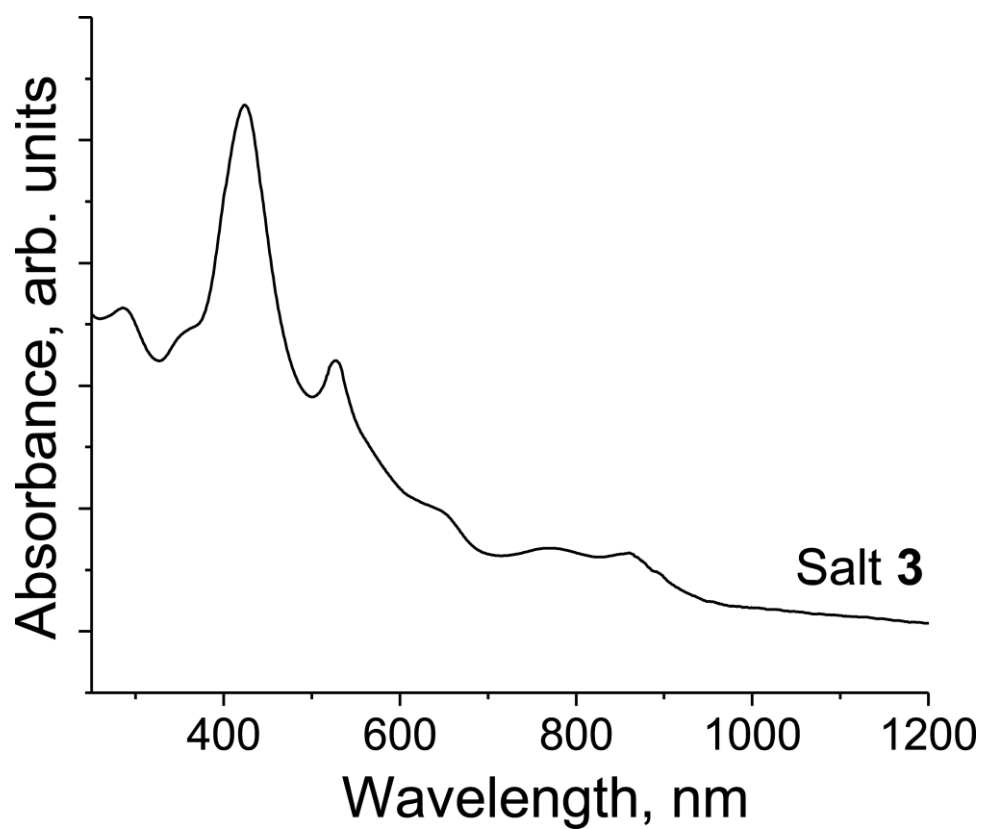


**Figure S6.** Crystal structures of salts **3** (a) and **4** (b): view on the chains of alternated {MTPP}<sup>-</sup> anions and Bu<sub>3</sub>MeP<sup>+</sup> cations approximately along the porphyrin planes. Solvent C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub> molecules are not shown.

**Table S2.** Optical spectra of metalloporphyrins and their anionic salts **1 - 4**.

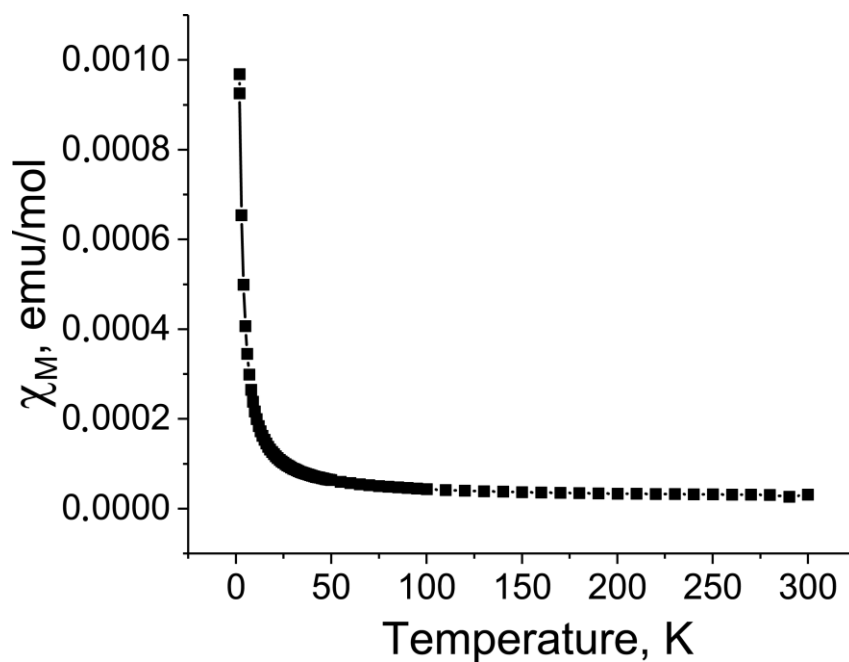
Porphyrin state in salt	Soret band	Q-band	Bands in the NIR range
$\text{Cu}^{\text{II}}(\text{TPP}^{2-})^0$	426	546	-
$\{\text{Cu}^{\text{II}}(\text{TPP}^{4-})\}^{2-}$ in <b>1</b>	423, ~450 (shoulder)	541, 615, 670	770, 870
$\text{Ni}^{\text{II}}(\text{TPP}^{2-})^0$	418	532, 624	-
$\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}^-$ in <b>2</b>	285, 426	575, 650	774, 854
$\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}^-$ in <b>3</b>	283, 422	578, 648	772, 850
$\text{Fe}^{\text{II}}(\text{TPP}^{2-})^0$	424	501, 566, 617, 678	-
$\{\text{Fe}^{\text{I}}(\text{TPP}^{2-})\}^-$ in <b>4</b>	440	- 574, 612, 702	-

### UV-spectrum of 3

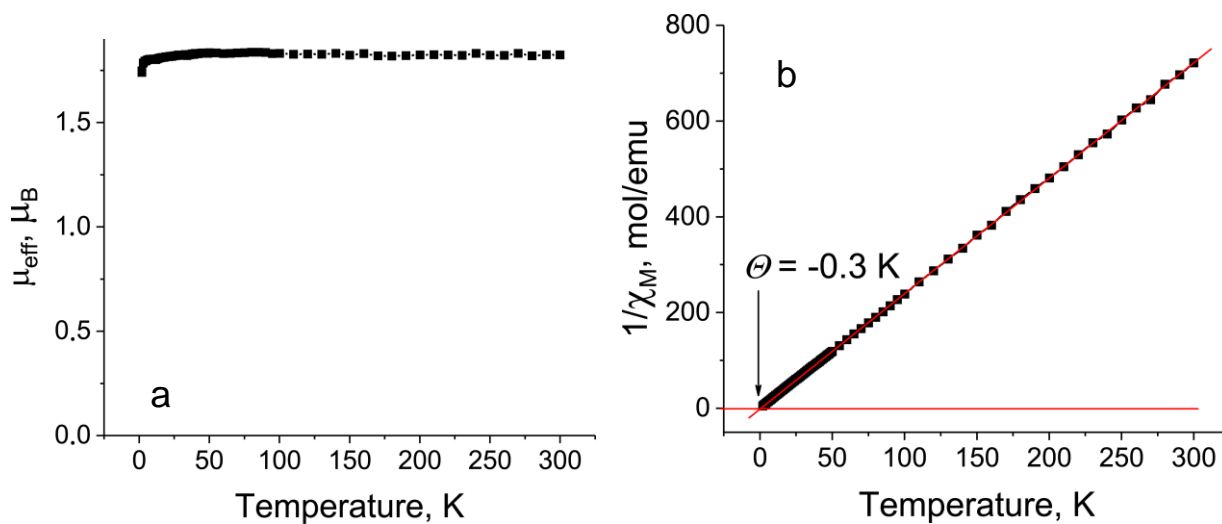


**Figure S7.** Spectrum of salt **3** in the UV-visible-NIR ranges in KBr pellets prepared in anaerobic conditions.

### Magnetic data for salt 1.

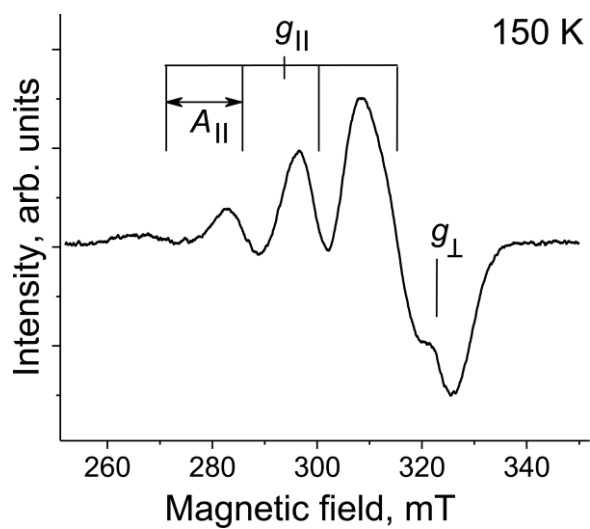


**Fig. S8.** Temperature dependence of molar magnetic susceptibility of polycrystalline **1** in the 1.9-300 R range.



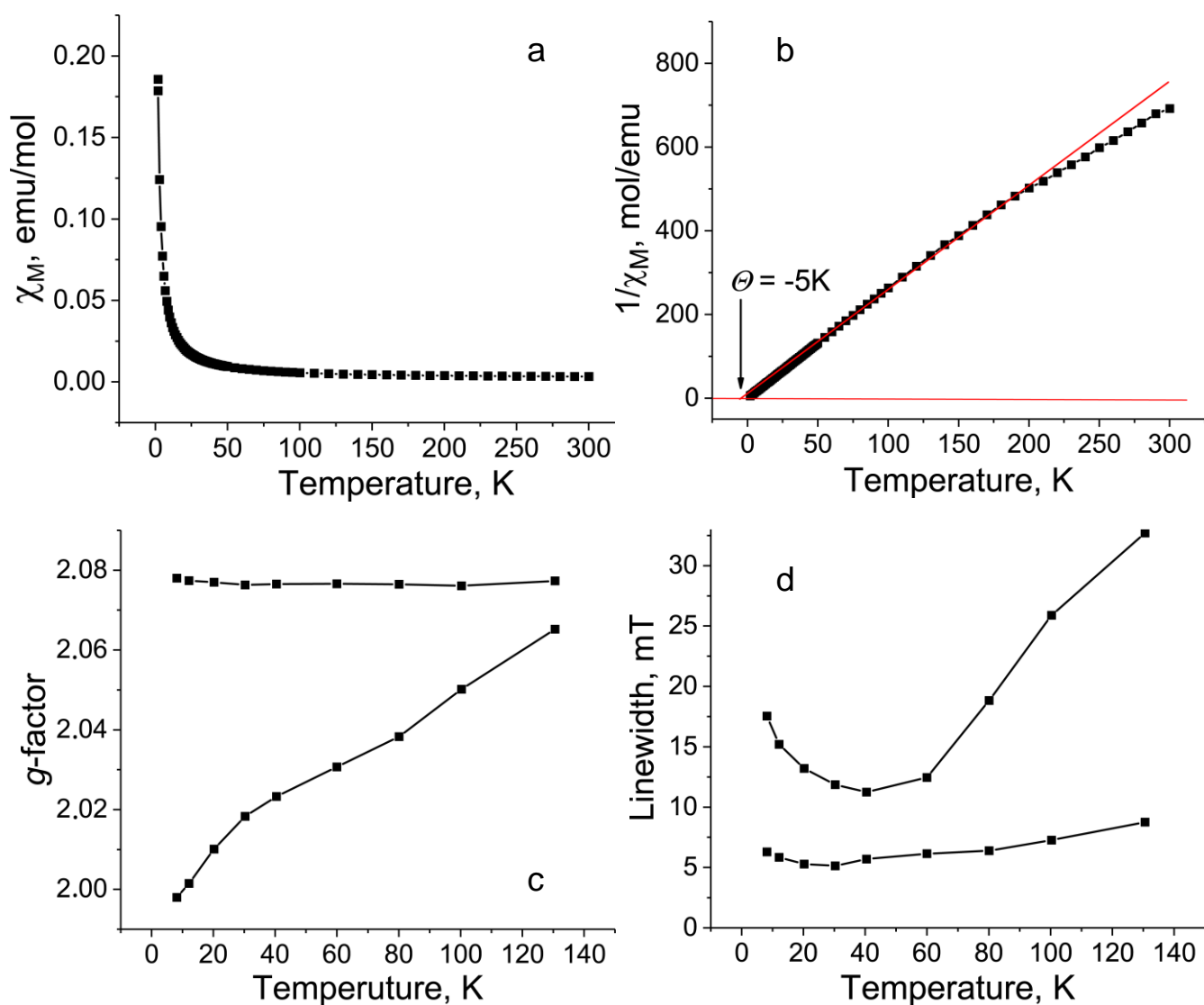
**Figure S9.** Magnetic data for polycrystalline salt **1**. Temperature dependence of : (a) effective magnetic moment and (b) reciprocal molar magnetic susceptibility in the 1.9-300 K range. Red line in Fig a show approximation of the dependence by the Curie-Weiss law with Weiss temperature of -0.3K.





**Fig. S10.** EPR signal from polycrystalline **1** at 150 K. Determination of  $g$ -factors and  $A_{||}$  is schematically shown.

### Magnetic data for salt 2.



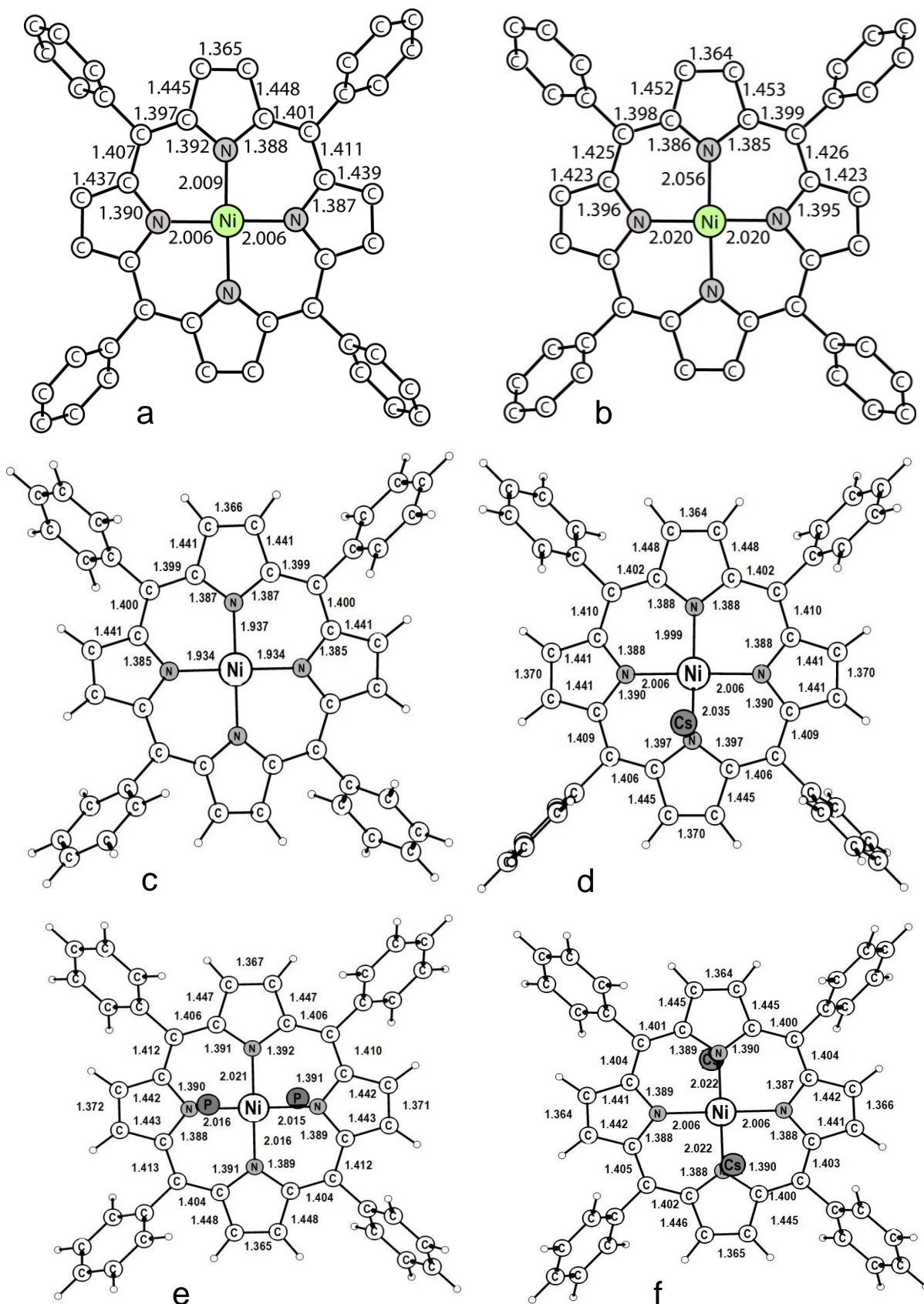
**Fig. S11.** Temperature dependences of molar magnetic susceptibility (a) and reciprocal molar magnetic susceptibility (b) of polycrystalline salt 2. Red line shows the Curie-Weiss fit for 20-150 K range. Temperature dependencies of  $g$ -factor (c) and the linewidth (d) of two broad components of the EPR signal from polycrystalline 2.

### Theoretical calculations.

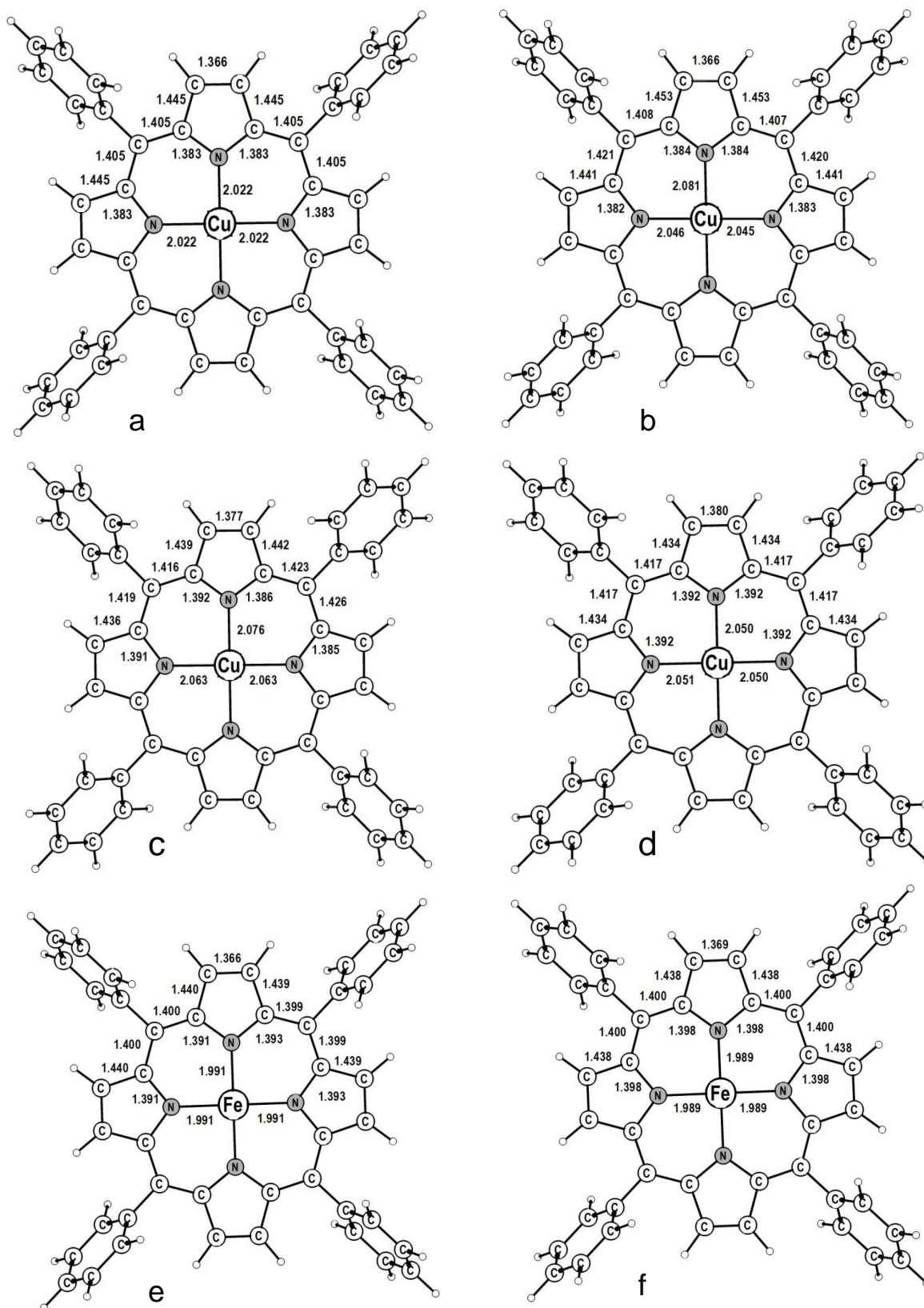
DFT calculations were performed using the PBE density functional theory<sup>1</sup> with the extended basis set: Fe, Ni Cu [9s9p8d/5s5p4d], C N,O, P [5s5p2d/3s3p2d], H [5s1p/3s1p], Cs {4s,1p}/{2s,1p} for the valence electrons and the SBK pseudopotential<sup>2</sup>. For the systems containing cryptand(Cs<sup>+</sup>) units all-electron calculations were performed using scalar relativistic approximation which is based on full four-component one-electron Dirac equation with spin-orbit effects separated out<sup>3</sup>. The energy optimized extended Gaussian basis set of double-polarized quality for the large component, and the corresponding kinetically balanced basis for the small component was used: Cs [30s28p20d/8s7p4d], Ni [21s16p11d5f/6s5p3d1f], C, N, O [10s7p3d/3s2p1d], and H [6s,2p/2s1p]<sup>4</sup>. The Hirschfeld method was applied to determine the charge on the atoms.<sup>5</sup> All calculations were carried out using the PRIRODA program<sup>6</sup> at Joint Supercomputer Center of Russian Academy of Sciences. In some cases HSEH1PBE functional implemented into GAUSSIAN 09<sup>7</sup> was used and the calculations have been done at Computational Center of ICPC RAS

### References.

1. J. P. Perdew, K. Burke, M. Ernzerhof, *Phys. Rev. Lett.*, 1996, **77**, 3865.
2. W. J. Stevens, H. Basch, M. Krauss, *J. Chem. Phys.*, 1984, **81**, 6026.
3. K. G. Dyall, *J. Chem. Phys.*, 1994, **100**, 2118
4. D. N. Laikov, *Chem. Phys. Lett.* 2005, **416**, 116.
5. F. L. Hirshfeld, *Theor. Chim. Acta*, 1977, **44**, 129.
6. D. N. Laikov, *Chem. Phys. Lett.* 1997, **281**, 151.
7. M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, et. al., 09, Revision D. 01, Gaussian. Inc., Wallingford, CT., 2009



**Fig. S12.** Calculated structures of: (a) the  $\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}^-$  anion with  $S = 1/2$  state; (b) the  $\{\text{Ni}^{\text{II}}(\text{TPP}^{3-})\}^-$  anion with  $S = 3/2$  state; (c) initial  $\{\text{Ni}^{\text{II}}(\text{TPP}^{2-})\}^0$ ,  $S = 0$ ; (d)  $[(\text{Cs}^+)\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}]^0$ ,  $S = 1/2$ ; (e)  $[(\text{Bu}_3\text{MeP}^+)_2\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}]^+$ ,  $S = 1/2$ ; (f)  $[\{\text{Crypt}(\text{Cs}^+)\}_2\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}]^+$ ,  $S = 1/2$ . Hydrogen atoms are omitted for (a) and (b). Only Cs and P atoms of the cations are shown in (c) and (d). All distances are shown in Å.



**Fig. S13.** Calculated structure of the complexes (a)  $\{\text{Cu}^{\text{II}}(\text{TPP}^{2-})\}^0$ ,  $S = 1/2$ ; (b)  $\{\text{Cu}^{\text{II}}(\text{TPP}^{3-})\}^-$ ,  $S = 1$ ; (c)  $\{\text{Cu}^{\text{II}}(\text{TPP}^{4-})\}^{2-}$ ,  $S = 1/2$ ; (d)  $\{\text{Cu}^{\text{II}}(\text{TPP}^{4-})\}^{2-}$ ,  $S = 3/2$ ; (e)  $\{\text{Fe}^{\text{II}}(\text{TPP}^{2-})\}^0$ ,  $S = 1$ ; (f)  $\{\text{Fe}^{\text{I}}(\text{TPP}^{2-})\}^-$ ,  $S = 1/2$ . Hydrogen atoms are omitted. All distances are shown in Å.

**Table S3.** Calculated length of the bonds in metal tetraphenylporphyrins. Types of bonds are given according to Scheme 1.

Complex	Spin state	The average length of the bonds, Å						
		M-N	1	2	Difference 2-1	3	4	Difference 4-3
$\text{Ni}^{\text{II}}(\text{TPP}^{2-})^0$	$S = 0$	1.934	1.400		0	1.441		0
$\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}^-$	$S = 1/2$	2.007	1.407	1.397	0.010	1.446	1.438	0.008
$\{\text{Ni}^{\text{II}}(\text{TPP}^{\bullet 3-})\}^-$	$S = 3/2$	2.038	1.425	1.398	0.027	1.453	1.423	0.030
$\{[\text{Crypt}(\text{Cs}^+)[\text{Ni}^{\text{I}}(\text{TPP}^{2-})]^-]\}$	$S = 1/2$	2.011	1.410	1.404	0.006	1.446	1.441	0.005
$\{[\text{Cryp}(\text{Cs}^+)]_2[\text{Ni}^{\text{I}}(\text{TPP}^{2-})]^- \}^+$	$S = 1/2$	2.014	1.404	1.401	0.003	1.445	1.442	0.003
$\{[\text{Bu}_3\text{MeP}^+]_2[\text{Ni}^{\text{I}}(\text{TPP}^{2-})]^- \}^+$	$S = 1/2$	2.017	1.412	1.406	0.006	1.447	1.442	0.005
$\{\text{Cu}^{\text{II}}(\text{TPP}^{2-})\}^0$	$S = 1/2$	2.022	1.405	1.405	0	1.445	1.445	0
$\{\text{Cu}^{\text{II}}(\text{TPP}^{3-})\}^-$	$S = 1$	2.063	1.421	1.408	0.013	1.453	1.441	0.012
$\{\text{Cu}^{\text{II}}(\text{TPP}^{4-})\}^{2-}$	$S = 1/2$	2.070	1.419	1.416	0.003	1.439	1.436	0.003
$\{\text{Cu}^{\text{II}}(\text{TPP}^{4-})\}^{2-}$	$S = 3/2$	2.070	1.417	1.417	0	1.434	1.434	0
$\{\text{Fe}^{\text{II}}(\text{TPP}^{2-})\}$	$S = 1$	1.991	1.400	1.399	0.001	1.440	1.440	0
$\{\text{Fe}^{\text{I}}(\text{TPP}^{2-})\}^-$	$S = 1/2$	1.989	1.400	1.400	0	1.438	1.438	0

Charge on the  $\text{Fe}^{\text{II}}$  atom is appreciably higher in  $\{\text{Fe}^{\text{II}}(\text{TPP}^{2-})\}^0$  compared to the neutral  $\{\text{Ni}^{\text{II}}(\text{TPP}^{2-})\}^0$  complex. That leads to its greater electron affinity, 1.96 eV, compared to that of the nickel analog, 1.64 eV. The excited quintet  $S = 2$  state of  $\{\text{Fe}^{\text{II}}(\text{TPP}^{2-})\}^0$  is positioned by 0.38 eV higher, than the ground  $S = 1$  state. The spin density on the metal atom increases from 2.097 ( $S = 1$ ) to 3.537 ( $S = 2$ ). Due to the population of a strongly delocalized  $x^2-y^2$  orbital, charge on the metal atom increases in the excited state to 0.255. In both complexes  $\{\text{Fe}^{\text{II}}(\text{TPP}^{2-})\}^0$  ( $S = 1$ ) and  $\{\text{Fe}^{\text{I}}(\text{TPP}^{2-})\}^-$  ( $S = 1/2$ ), the value of a spin density on the metal atom is higher than the formal theoretical values, that is due to the noticeable nonequivalence of similar orbitals populated with the electrons with opposite spin orientations.

## Cartesian coordinates of the considered systems

{Ni<sup>II</sup>(TPP<sup>2-</sup>)<sup>0</sup>}

charge=0 mult=1

28	2.62588179	10.54135049	18.39888505
7	2.84595201	8.64655336	18.69031759
7	3.51350086	10.37511136	16.68904647
6	3.03160457	14.95192695	12.09318729
6	7.25436714	5.15905959	15.41236571
6	3.52100341	11.29544912	15.65422098
6	4.33781735	10.82340891	14.56440099
1	4.51186774	11.36574824	13.64070353
6	4.87541077	9.63166237	14.95978334
1	5.56785086	8.99641306	14.41763484
6	4.32594636	9.33570629	16.25886588
6	4.50292234	8.11922957	16.92642645
6	3.72101791	7.79154228	18.03998124
6	3.59352915	6.45180387	18.55584289
1	4.17133293	5.59885916	18.21484937
6	2.59850199	6.48075476	19.49142956
1	2.21310618	5.66074824	20.08866339
6	2.15986693	7.84995705	19.59268052
6	2.97662384	12.58404139	15.70151239
6	3.00076312	13.41818043	14.46083687
6	3.88419266	14.50456201	14.32155887
1	4.57014250	14.74416684	15.13603266
6	3.89933867	15.26481531	13.14665135
1	4.59528953	16.10044189	13.05297880
6	2.15200117	13.87022911	12.21973355
1	1.47225241	13.61819312	11.40381240
6	2.13897982	13.10719815	13.39293314
1	1.45306701	12.26363937	13.49014427
6	5.45127532	7.09748716	16.38701226
6	5.19742442	6.42619539	15.17664955
1	4.28666274	6.65363691	14.61979413
6	6.09190180	5.46421277	14.69393388
1	5.87647619	4.94856672	13.75632949
6	7.51462500	5.81867357	16.61945819
1	8.41816167	5.58766393	17.18650774
6	6.61864155	6.77808980	17.10475632
1	6.82264097	7.29146091	18.04619241
7	2.40358926	12.44349140	18.10585834
7	1.74003944	10.69501932	20.11096407
6	-0.82168857	5.39029494	22.96402634
6	1.01477272	16.41793869	23.11643976
6	1.16517034	9.67592551	20.85683798
6	0.52039953	10.21263877	22.02870356
1	-0.03075972	9.62861756	22.75816069
6	0.76573112	11.55632119	22.03543514
1	0.44469596	12.29457641	22.76317011
6	1.49177024	11.85455666	20.82641158
6	1.73066691	13.15882500	20.37849065
6	2.08715051	13.40973790	19.04922233

6	2.03746558	14.71375425	18.43722444
1	1.83194555	15.64035297	18.96256827
6	2.24922060	14.53229094	17.10032977
1	2.25383686	15.28147206	16.31579393
6	2.52356209	13.13058827	16.90694970
6	1.28488091	8.30922052	20.58382186
6	0.55962084	7.30747177	21.42349574
6	-0.48034751	6.54648090	20.85773058
1	-0.75021603	6.70724427	19.81238602
6	-1.16733143	5.59752235	21.62321558
1	-1.97500907	5.02006143	21.16988416
6	0.21614443	6.13742876	23.53435124
1	0.49825454	5.97627798	24.57639171
6	0.90137471	7.08930281	22.77073123
1	1.71767270	7.66163095	23.21502884
6	1.47481840	14.29663391	21.31445476
6	2.35355608	14.52930527	22.38835401
1	3.22077250	13.87915675	22.51772929
6	2.12711643	15.58388522	23.28025245
1	2.82256595	15.75326519	24.10424948
6	0.12947915	16.18999267	22.05581002
1	-0.74541561	16.82955393	21.92572109
6	0.35752453	15.13814496	21.16125219
1	-0.34088522	14.95662253	20.34223946
1	0.83676643	17.23895790	23.81294990
1	3.04346646	15.54579115	11.17772474
1	-1.35580780	4.64883380	23.56055049
1	7.95180780	4.40942191	15.03487045

{Ni<sup>I</sup>(TPP<sup>2-</sup>)<sup>-</sup>} S = 1/2

charge=-1 mult=2

28	2.62373609	10.52008283	18.39795084
7	2.81404076	8.54360182	18.68632455
7	3.42894269	10.33666905	16.56690054
6	4.61572407	15.46625588	12.71535432
6	5.87566865	4.70179706	14.38644874
6	3.76720763	11.36037464	15.69292493
6	4.56260254	10.85207243	14.59500762
1	4.98520527	11.45329618	13.79611523
6	4.71252512	9.51179305	14.80142492
1	5.26716947	8.80226836	14.19497088
6	4.00936016	9.19453367	16.02348202
6	3.98816966	7.91494636	16.58459223
6	3.43174240	7.62554611	17.84448247
6	3.41463577	6.31108873	18.42425874
1	3.80652394	5.41191866	17.95925081
6	2.78779657	6.42306116	19.64009735
1	2.62576454	5.64312023	20.37722461
6	2.41719546	7.80545847	19.79115701
6	3.45955031	12.71753490	15.85234091
6	3.85649913	13.66794815	14.77294228
6	4.77529473	14.70912295	15.01849497
1	5.19981659	14.81110514	16.01869251



6 5.15105746 15.59626855 14.00402677  
1 5.87097418 16.38913743 14.21984214  
6 3.70124522 14.43780242 12.45518998  
1 3.27162762 14.32699938 11.45684887  
6 3.32657370 13.55133197 13.47142851  
1 2.60999446 12.75432750 13.26511647  
6 4.63940500 6.80141914 15.82811619  
6 4.09381398 6.33568452 14.61627511  
1 3.18093637 6.79895823 14.23752170  
6 4.70464850 5.29746440 13.90218432  
1 4.26118274 4.95149845 12.96574691  
6 6.42947875 5.15474754 15.59122953  
1 7.34585328 4.70201884 15.97660528  
6 5.81674044 6.19206092 16.30367134  
1 6.25068452 6.54493169 17.24086805  
7 2.43308472 12.49643485 18.10901039  
7 1.81911407 10.70260051 20.22941639  
6 0.57805976 5.56257390 24.05098392  
6 -0.59010734 16.34446733 22.43093202  
6 1.47334119 9.67831220 21.09996991  
6 0.68109454 10.18877043 22.19929944  
1 0.25402428 9.58818846 22.99628961  
6 0.54263689 11.53106893 21.99830156  
1 -0.00664170 12.24280273 22.60706321  
6 1.24737991 11.84705318 20.77684876  
6 1.27265127 13.12742030 20.21751352  
6 1.82151584 13.41557827 18.95416823  
6 1.83336796 14.72911726 18.37218483  
1 1.44480277 15.62881312 18.83895403  
6 2.44887259 14.61516087 17.15076609  
1 2.60367422 15.39373689 16.41068489  
6 2.81969234 13.23286424 16.99931053  
6 1.77256645 8.31983246 20.93592979  
6 1.36314894 7.36668623 22.00826137  
6 0.43850737 6.33347205 21.75118280  
1 0.02056890 6.23934707 20.74745534  
6 0.05002136 5.44342551 22.75826016  
1 -0.67405937 4.65686723 22.53347910  
6 1.49823714 6.58290389 24.32259820  
1 1.92238227 6.68508029 25.32419572  
6 1.88583306 7.47213955 23.31361779  
1 2.60623251 8.26322346 23.52920476  
6 0.62984170 14.24269443 20.97883138  
6 1.18687201 14.70754790 22.18574729  
1 2.10213354 14.24252393 22.55654347  
6 0.58409628 15.74690471 22.90504474  
1 1.03623316 16.09215823 23.83758908  
6 -1.15532405 15.89224477 21.23118694  
1 -2.07438562 16.34636030 20.85390829  
6 -0.55063796 14.85374390 20.51355761  
1 -0.99355309 14.50128787 19.58040871  
1 -1.06132657 17.15490302 22.99106308  
1 4.90832069 16.15879087 11.92335453

1 0.27554813 4.86779834 24.83727813  
1 6.35311042 3.89220196 13.83038998

{Ni<sup>I</sup>(TPP<sup>2-</sup>)<sup>-</sup>} S = 3/2

charge=-1 mult=4

28 2.62373155 10.51952316 18.39778601  
7 2.86588853 8.50177024 18.71080443  
7 3.52481641 10.34614735 16.59796300  
6 4.59112743 15.48379672 12.70560586  
6 5.81100415 4.65427520 14.34736541  
6 3.84334092 11.38076222 15.71694574  
6 4.62599397 10.88234775 14.63872337  
1 5.03697042 11.47436244 13.82702495  
6 4.78407421 9.51678558 14.84776433  
1 5.34433449 8.81899244 14.23346432  
6 4.09585943 9.19690636 16.05159379  
6 4.05260147 7.89054529 16.62200333  
6 3.48098030 7.59496937 17.86409025  
6 3.42500634 6.26290012 18.44206194  
1 3.81526826 5.36024736 17.98207339  
6 2.79567781 6.37600685 19.64649198  
1 2.59152118 5.58633599 20.36314822  
6 2.43416091 7.77334255 19.80783635  
6 3.48863825 12.75175885 15.87706125  
6 3.87637189 13.69180857 14.78336022  
6 4.80776627 14.72674803 15.00358275  
1 5.25897474 14.82674282 15.99236825  
6 5.15849700 15.61451580 13.97883195  
1 5.88333836 16.40776218 14.17641673  
6 3.66984731 14.45409115 12.46815428  
1 3.21522480 14.34365642 11.48093567  
6 3.32015136 13.56918917 13.49383071  
1 2.59899032 12.77158182 13.30649139  
6 4.66621556 6.77890609 15.83768241  
6 4.14275987 6.40467425 14.58279847  
1 3.27751066 6.94390383 14.19299499  
6 4.70473547 5.35574777 13.84751143  
1 4.27166804 5.07945162 12.88334422  
6 6.34778754 5.01806333 15.58821156  
1 7.21511711 4.48616703 15.98624787  
6 5.78488788 6.06993220 16.32147040  
1 6.21411215 6.35648341 17.28321062  
7 2.38058092 12.53689947 18.08429394  
7 1.72279321 10.69325251 20.19764221  
6 0.67094625 5.56159669 24.09978694  
6 -0.59537726 16.37984355 22.43003790  
6 1.41212157 9.65988446 21.08269533  
6 0.63220639 10.15812554 22.16316871  
1 0.22820294 9.56667291 22.97878094  
6 0.46662804 11.52212216 21.95047673  
1 -0.09465986 12.21914216 22.56468572  
6 1.14836306 11.84139805 20.74278537  
6 1.18545724 13.14631419 20.16898959

6	1.75877680	13.44218752	18.92777494
6	1.81112873	14.77371379	18.34834410
1	1.41494883	15.67520309	18.80559126
6	2.44642205	14.66192541	17.14693581
1	2.64993953	15.45124489	16.42978336
6	2.81430063	13.26591355	16.98845483
6	1.76658078	8.28902168	20.92236270
6	1.38212186	7.34996713	22.01825828
6	0.43986946	6.32367733	21.80494150
1	-0.02042958	6.22815796	20.81989993
6	0.09112611	5.43728218	22.83156269
1	-0.64245808	4.65069839	22.64002339
6	1.60293054	6.58311758	24.33049088
1	2.06709419	6.68863666	25.31378986
6	1.95086540	7.46646021	23.30279589
1	2.67969248	8.25840382	23.48459548
6	0.56442884	14.25700138	20.94908142
6	1.08579556	14.64084758	22.20183244
1	1.95533331	14.11006334	22.59366921
6	0.51633827	15.68900657	22.93253514
1	0.94774540	15.97304108	23.89519393
6	-1.13004242	16.00644781	21.19112770
1	-2.00142933	16.53006288	20.79100095
6	-0.55955877	14.95548086	20.46245312
1	-0.98656260	14.66132922	19.50201461
1	-1.04044720	17.19841523	22.99958074
1	4.86443437	16.17515722	11.90568745
1	0.39890854	4.87144141	24.90118096
1	6.25024973	3.83498943	13.77433750

(Cs<sup>+</sup>){Ni<sup>I</sup>(TPP<sup>2-</sup>)<sup>-</sup> S = 1/2

charge=0 mult=2

28	2.61951340	7.38450385	19.77515550
7	4.38256371	7.41498939	20.73238368
7	3.18529464	5.76463675	18.75025450
6	-0.58246686	3.01134334	14.20910867
6	9.13453581	3.17633508	19.31886493
6	2.50432216	5.17316342	17.69545927
6	3.36726884	4.25166858	16.98590604
1	3.08990270	3.68581842	16.10203648
6	4.57451551	4.27131480	17.62101803
1	5.47460229	3.72558277	17.35580108
6	4.45506279	5.20482458	18.72177815
6	5.49949041	5.49703764	19.60963864
6	5.43264757	6.52141637	20.57567387
6	6.46669745	6.77784788	21.54622672
1	7.37382015	6.19432138	21.66688560
6	6.05081027	7.84557739	22.29804108
1	6.58315814	8.33556450	23.10739343
6	4.76678297	8.24390815	21.78001248
6	1.17468936	5.42805669	17.33243358
6	0.56414084	4.59559768	16.25179133
6	0.14869836	5.17307920	15.03625911

1 0.28063293 6.24633286 14.88711985  
6 -0.41608494 4.38961465 14.02395233  
1 -0.72339691 4.85653952 13.08603255  
6 -0.17684303 2.42447295 15.41386951  
1 -0.30778495 1.35216822 15.57170647  
6 0.39291668 3.20831523 16.42362303  
1 0.70385063 2.74847445 17.36324880  
6 6.75818449 4.69712260 19.51092741  
6 6.75225089 3.31239351 19.76710552  
1 5.81513569 2.82958973 20.04947948  
6 7.92867922 2.55995652 19.67440971  
1 7.90281388 1.48908508 19.88523969  
6 9.15447752 4.55257648 19.05975819  
1 10.08812270 5.04240540 18.77600253  
6 7.97869146 5.30456297 19.15773301  
1 7.99665796 6.37622954 18.95131828  
7 0.83545665 7.36368537 18.85739152  
7 2.10118909 9.11694066 20.70817750  
6 5.68944646 11.61020061 25.55853265  
6 -3.97379581 11.49011018 20.42297922  
6 2.81343191 9.77163464 21.71572951  
6 2.03939875 10.87169063 22.24346969  
1 2.35107674 11.52768040 23.05108648  
6 0.82889712 10.85590664 21.60113979  
1 -0.02796696 11.49626061 21.78929592  
6 0.85436283 9.74579086 20.67647999  
6 -0.26559440 9.31396104 19.94479926  
6 -0.26405832 8.17364949 19.11707228  
6 -1.40666811 7.73824196 18.35513533  
1 -2.38564031 8.20722986 18.36337546  
6 -0.99750029 6.66582225 17.60633910  
1 -1.59612736 6.05786169 16.93558028  
6 0.39236849 6.44474290 17.91668718  
6 4.05618233 9.37161318 22.23672957  
6 4.62692969 10.15086658 23.38063478  
6 4.64095180 9.60433273 24.67789786  
1 4.23127298 8.60507154 24.83499506  
6 5.16606251 10.32612488 25.75558618  
1 5.16310950 9.88419433 26.75375463  
6 5.68426765 12.16594031 24.27388568  
1 6.09500754 13.16379593 24.10751071  
6 5.15811973 11.44074707 23.19809326  
1 5.16337602 11.87635468 22.19597633  
6 -1.54767192 10.07073815 20.10251039  
6 -1.71594203 11.35276180 19.54817004  
1 -0.89531937 11.79808013 18.98050345  
6 -2.91498554 12.05812250 19.70504013  
1 -3.02369637 13.05009815 19.26199391  
6 -3.82213172 10.21366814 20.97919863  
1 -4.64073915 9.76241734 21.54304547  
6 -2.62206151 9.51173511 20.82024568  
1 -2.50592584 8.51859757 21.25751328  
1 -4.90994785 12.03704307 20.54717501

1 -1.02496223 2.39985880 13.42071947  
1 6.09894264 12.17272589 26.39926137  
1 10.05165233 2.58924211 19.24471534  
55 3.24961559 11.01315264 18.49223733

$[(\text{Bu}_3\text{MeP}^+)_2\{\text{Ni}^{\text{I}}(\text{TPP}^{2-})\}]^+$ ,  $S = 1/2$

charge=1 mult=2

28 0.16839528 -0.42099121 0.92708390  
7 -0.07278467 -0.97015113 2.85062746  
7 2.16938921 -0.62114390 1.12307680  
6 6.29682011 0.75544945 -3.73347282  
6 5.01337016 -2.16290501 6.77818629  
6 3.13272245 -0.24236254 0.19351076  
6 4.43872172 -0.18557490 0.81330422  
1 5.35713003 0.11593042 0.31937006  
6 4.27637542 -0.55790912 2.11853666  
1 5.03879815 -0.62140167 2.88884290  
6 2.86982696 -0.83970234 2.30545019  
6 2.30800727 -1.24487609 3.52955116  
6 0.91921887 -1.32186626 3.76070289  
6 0.33018719 -1.74836523 5.00590142  
1 0.87612479 -2.11568393 5.86909267  
6 -1.02812435 -1.62343623 4.86779944  
1 -1.79020943 -1.82690390 5.61342865  
6 -1.27141423 -1.13361436 3.53287055  
6 2.89449331 0.04370038 -1.16213862  
6 4.07000000 0.28889923 -2.05291499  
6 4.23852423 1.52686285 -2.70366030  
1 3.49866918 2.31442961 -2.54910429  
6 5.34111636 1.75906122 -3.53289621  
1 5.45571752 2.72846478 -4.02109561  
6 6.14233489 -0.48063799 -3.09454783  
1 6.88180029 -1.26939069 -3.24461148  
6 5.04141390 -0.70978293 -2.26171316  
1 4.92996548 -1.67416574 -1.76187676  
6 3.23777845 -1.56138023 4.65844791  
6 4.15318801 -2.62657349 4.55653055  
1 4.16980002 -3.22614884 3.64495347  
6 5.02970935 -2.92648667 5.60502172  
1 5.72602366 -3.76115141 5.50648611  
6 4.11032988 -1.09931206 6.89448026  
1 4.09056553 -0.49685767 7.80454204  
6 3.23154524 -0.80479325 5.84629227  
1 2.52551493 0.02190004 5.94727585  
7 0.40704691 0.05640458 -1.01741349  
7 -1.82145872 -0.15440926 0.74657675  
6 -5.95873361 -1.33301651 5.64417809  
6 -4.65681293 1.10573014 -4.99577627  
6 -2.78741126 -0.35954472 1.72391858  
6 -4.11097193 -0.13518284 1.18086408  
1 -5.04136205 -0.23194155 1.73118627  
6 -3.95198673 0.18115373 -0.13705738  
1 -4.72780381 0.41165521 -0.85988736

6 -2.53140077 0.13601759 -0.41383425  
6 -1.97720777 0.31598968 -1.69113288  
6 -0.59261104 0.24303099 -1.96274846  
6 -0.01919260 0.37842637 -3.27946997  
1 -0.57640150 0.53130714 -4.19852371  
6 1.34358223 0.31537644 -3.13020161  
1 2.09788849 0.36606856 -3.90924019  
6 1.60235246 0.12984045 -1.72384562  
6 -2.55151996 -0.81312136 3.03155726  
6 -3.73034200 -0.99683823 3.93666985  
6 -4.12986682 -2.27924230 4.35773166  
1 -3.57094827 -3.15162329 4.01391880  
6 -5.23346033 -2.44613131 5.20194451  
1 -5.53023412 -3.44976099 5.51155958  
6 -5.57367108 -0.05173533 5.23213769  
1 -6.13303583 0.82257222 5.57009959  
6 -4.47080407 0.11295363 4.38601525  
1 -4.17962387 1.11409024 4.06057030  
6 -2.90433655 0.58721167 -2.83607298  
6 -2.86933956 1.81944002 -3.51636964  
1 -2.15627055 2.58229794 -3.19904863  
6 -3.73602952 2.07692632 -4.58445691  
1 -3.69551573 3.04161311 -5.09337335  
6 -4.70460783 -0.12376815 -4.32810306  
1 -5.42202584 -0.88625482 -4.63737202  
6 -3.83675733 -0.37905940 -3.25997061  
1 -3.88752959 -1.33616513 -2.73652074  
1 -5.33393640 1.30699681 -5.82719390  
1 7.15608515 0.93584095 -4.38110867  
1 -6.81928123 -1.46356704 6.30198963  
1 5.69757802 -2.39513464 7.59555163  
15 0.28367756 -4.19726671 -1.64417097  
6 0.03237845 -6.01232750 -1.83964483  
1 -1.01678843 -6.14953299 -2.14881097  
1 0.11963402 -6.44760204 -0.83076752  
6 1.98050535 -3.85480519 -1.03482206  
1 2.65587467 -4.13303741 -1.85985236  
1 2.03578323 -2.75893701 -0.91573724  
6 -0.93755435 -3.57323993 -0.44517545  
1 -0.88844582 -4.17681529 0.47098983  
1 -0.69534556 -2.52312884 -0.19117847  
1 -1.94810877 -3.63552859 -0.86970559  
1 1.57929380 -8.50028116 -4.92352424  
6 1.67834929 -8.91082116 -3.90728761  
1 2.72790101 -8.79425385 -3.59748876  
1 0.82267205 -8.66500371 -1.92795840  
6 0.72792885 -8.21110929 -2.92877157  
1 -0.31677466 -8.37232038 -3.24382945  
6 0.99518590 -6.69975507 -2.82345811  
1 2.03827009 -6.53893501 -2.50321050  
1 0.89955635 -6.24580938 -3.82407783  
1 1.46485231 -9.98721718 -3.96108416  
1 2.16275695 -5.64844246 0.20211982

6 2.35467356 -4.56425750 0.28008945  
1 1.71676615 -4.17781787 1.08988689  
1 3.97366818 -4.76525567 1.67509704  
6 3.83268977 -4.35159844 0.66372105  
1 4.03828336 -3.27168629 0.73819788  
1 5.86548669 -4.86714523 0.07161002  
6 4.83734154 -5.01449541 -0.28755057  
1 4.66569266 -6.10020005 -0.36097712  
1 4.79336871 -4.59607966 -1.30492328  
1 0.93977919 -3.69442348 -3.88168025  
6 0.08425103 -3.36473373 -3.26837854  
1 0.22329261 -2.28463628 -3.08651853  
6 -1.24652893 -3.64365906 -3.98953563  
1 -1.39908134 -4.72992045 -4.11002369  
1 -2.08818147 -3.26923710 -3.38443660  
6 -1.29021969 -2.97923756 -5.37662877  
1 -0.43078260 -3.33223415 -5.97193604  
1 -1.15977842 -1.89186607 -5.25815251  
6 -2.59438530 -3.27158928 -6.12684567  
1 -3.46610076 -2.89484631 -5.57143702  
1 -2.59572763 -2.79071891 -7.11483675  
1 -2.73505051 -4.35262783 -6.28085082  
15 0.48634389 3.32796922 3.52113540  
6 0.68291488 5.08254840 4.04472902  
1 1.30667340 5.56898069 3.27707455  
1 1.28117997 5.06571163 4.97059187  
6 -0.44657407 2.38527844 4.79085882  
1 -1.48945390 2.73399756 4.72813397  
1 -0.43648572 1.33704301 4.44505781  
6 2.14785628 2.60382182 3.31528961  
1 2.68182246 2.60982818 4.27446308  
1 2.04137994 1.57104143 2.95107311  
1 2.71511457 3.19241661 2.58231934  
1 -2.30008599 8.11627744 4.00038164  
6 -1.69996777 8.07178485 4.92175685  
1 -2.31541925 7.59967345 5.70240081  
1 0.19939192 7.29624521 5.62910466  
6 -0.39448488 7.29926195 4.69959851  
1 0.21946420 7.81391888 3.94147073  
6 -0.63610679 5.84763510 4.25103258  
1 -1.25604443 5.33453202 5.00544689  
1 -1.21842414 5.85102226 3.31459633  
1 -1.49705540 9.10446765 5.23715772  
1 0.06997961 3.56537726 6.55004309  
6 0.10800645 2.51223397 6.22265061  
1 1.16924476 2.21522216 6.23578085  
1 -0.12772727 1.71157161 8.20176495  
6 -0.66055841 1.64482991 7.23969567  
1 -0.60473355 0.59034113 6.92509076  
1 -2.58963045 1.45117119 8.23183407  
6 -2.12417054 2.05571111 7.44108003  
1 -2.20742880 3.11261660 7.74080933  
1 -2.72811248 1.90938829 6.53317569

1	-1.42220931	3.64669732	2.11164614
6	-0.41835514	3.22790347	1.92964063
1	-0.54700978	2.14754293	1.71846839
6	0.28234852	3.92986762	0.75198298
1	0.55500644	4.96646635	1.01697678
1	1.21953644	3.39899774	0.51848911
6	-0.60550571	3.95045016	-0.50337009
1	-1.53067017	4.50996616	-0.28286781
1	-0.91039537	2.91848634	-0.73763730
6	0.10717578	4.57578978	-1.70774882
1	1.00019660	3.99605265	-1.98593227
1	-0.55310968	4.60957741	-2.58598365
1	0.42770320	5.60776006	-1.49572408

$[\{Cryp(Cs^+)\}_2\{Ni^I(PPP^2-)\}]^+, S = 1/2$

charge=+1 mult=2

28	0.13900189	0.09302244	0.03114557
7	1.82370428	1.10885981	0.42434727
7	1.14392262	-1.65253576	0.21189595
6	-1.88477445	-7.40421625	0.10969040
6	7.38303787	-1.90394031	2.00073713
6	0.59849630	-2.93050533	0.22122277
6	1.58979460	-3.89816547	0.63302988
1	1.41373054	-4.96718302	0.73569313
6	2.74169879	-3.20871155	0.87713606
1	3.69883625	-3.60269894	1.21286331
6	2.46247653	-1.81448400	0.61750426
6	3.38277605	-0.78166925	0.83998315
6	3.06691099	0.58347608	0.75063155
6	4.01453532	1.64335065	0.98811545
1	5.06405958	1.50089290	1.23480158
6	3.34717155	2.82051172	0.81336099
1	3.73086984	3.83030704	0.93847733
6	1.98985214	2.48620167	0.45939576
6	-0.73900791	-3.25075604	-0.04143115
6	-1.13945077	-4.69047504	0.01058693
6	-0.70379946	-5.59113564	-0.97420465
1	-0.06983384	-5.22463232	-1.78691704
6	-1.07350586	-6.93652234	-0.92634327
1	-0.72862852	-7.62262827	-1.70472776
6	-2.32079183	-6.51824665	1.09771300
1	-2.95301670	-6.87840805	1.91447565
6	-1.95313713	-5.17196655	1.05000538
1	-2.28728597	-4.48565772	1.83566828
6	4.77100267	-1.16244031	1.24391085
6	5.24819640	-0.89628359	2.53798554
1	4.59038901	-0.39755508	3.25668486
6	6.54134227	-1.26416777	2.91361252
1	6.89424711	-1.05087581	3.92667215
6	6.92129803	-2.17471788	0.71096947
1	7.57383256	-2.67290725	-0.01123638
6	5.62721995	-1.80789641	0.33735552
1	5.26802232	-2.02089185	-0.67363638



7 -1.54831766 -0.92250653 -0.35235135  
7 -0.87019771 1.83533108 -0.15370783  
6 2.04994213 7.62101345 0.29680516  
6 -7.02014108 2.04252644 -2.24952317  
6 -0.33398817 3.11544539 -0.12054212  
6 -1.31479165 4.08335915 -0.55872898  
1 -1.14433376 5.15520886 -0.63651391  
6 -2.45057461 3.39062604 -0.86256020  
1 -3.39535970 3.78259185 -1.23425601  
6 -2.17427069 1.99575040 -0.60805622  
6 -3.08373951 0.96283124 -0.86303237  
6 -2.77911384 -0.40001470 -0.72529926  
6 -3.73492333 -1.45907256 -0.93109077  
1 -4.77724292 -1.31470759 -1.20726376  
6 -3.08722279 -2.63414473 -0.67686131  
1 -3.48021397 -3.64578851 -0.75200444  
6 -1.72983329 -2.29765785 -0.32573443  
6 0.99134742 3.44011994 0.20089213  
6 1.36565578 4.88627890 0.23440701  
6 0.81798494 5.74439574 1.20220411  
1 0.11920269 5.33729972 1.93869579  
6 1.15677125 7.09808826 1.23436293  
1 0.72250054 7.74784819 1.99910302  
6 2.60126063 6.77997586 -0.67263562  
1 3.29945408 7.18167289 -1.41255213  
6 2.26306533 5.42606437 -0.70228421  
1 2.69513557 4.77097973 -1.46511272  
6 -4.45014808 1.33450408 -1.34438568  
6 -4.83313250 1.08906653 -2.67365499  
1 -4.11841550 0.62883916 -3.36464279  
6 -6.10821094 1.44180718 -3.12061469  
1 -6.39188171 1.24552529 -4.15865764  
6 -6.64835461 2.29271395 -0.92688445  
1 -7.35642243 2.76101307 -0.23777085  
6 -5.37326881 1.94211199 -0.47909614  
1 -5.08233670 2.13691602 0.55732292  
1 -8.01876211 2.31517314 -2.60080948  
1 -2.17630146 -8.45710433 0.14726046  
1 2.31607343 8.68087056 0.32159289  
1 8.39623960 -2.19058430 2.29400812  
55 -0.16718728 1.88672993 -3.41832680  
55 0.36243554 -1.75302524 3.45929132  
8 -0.43307418 -3.84704138 5.32284884  
8 -2.58622212 -2.73640326 3.83471416  
8 -0.94743669 -1.25499977 8.89545989  
8 -3.19041820 -0.20846179 7.33202533  
8 2.11860175 -0.52377084 5.73460554  
8 -0.01392857 1.10681754 4.65964418  
7 1.21563087 -2.86116769 7.58639237  
7 -2.87065861 0.32784023 4.34614553  
6 0.86448086 -4.27085314 7.40104416  
1 1.66497790 -4.96528615 7.76151183  
1 -0.01628944 -4.47894409 8.02959665

6 0.53484342 -4.67633619 5.96123832  
1 0.21635135 -5.73909595 5.96247358  
1 1.43577805 -4.62211061 5.32403983  
6 -1.79562719 -4.09702426 5.67261932  
1 -2.14840922 -5.02568176 5.17816026  
1 -1.91722095 -4.21454795 6.76750057  
6 -2.65265926 -2.91318894 5.25968330  
1 -2.33539756 -1.99951259 5.79691898  
1 -3.69513875 -3.14218042 5.56520223  
6 -3.60806497 -1.88160057 3.29941490  
1 -3.83367999 -2.26129706 2.28635357  
1 -4.53254614 -1.99116246 3.89907219  
6 -3.22277169 -0.40738802 3.12497130  
1 -4.07589209 0.07277526 2.58007917  
1 -2.37168452 -0.35500957 2.42268491  
6 1.11152504 -2.49458761 9.00495325  
1 1.64646822 -3.22291999 9.66139073  
1 1.60129206 -1.51905341 9.15208825  
6 -0.31296958 -2.35148586 9.52655076  
1 -0.25302010 -2.19860573 10.62714490  
1 -0.89756434 -3.28518262 9.37463867  
6 -2.26712278 -1.06308537 9.38008425  
1 -2.89269920 -1.96600880 9.20791995  
1 -2.26456352 -0.86367076 10.47404314  
6 -2.89821696 0.12178604 8.68201769  
1 -2.20224838 0.98566630 8.73741474  
1 -3.82495577 0.39955888 9.22999766  
6 -3.75484196 0.89649149 6.64393871  
1 -4.71277723 1.20494945 7.11836104  
1 -3.07620432 1.77344158 6.69881071  
6 -4.05436564 0.51904192 5.19904956  
1 -4.73956006 1.29321722 4.77722706  
1 -4.62588160 -0.42231884 5.22563359  
6 2.54432631 -2.54273967 7.05327998  
1 3.36059018 -2.94696420 7.70228730  
1 2.66489025 -3.03758515 6.07398504  
6 2.82321934 -1.05286177 6.86066727  
1 3.91742052 -0.92143977 6.72053099  
1 2.54462336 -0.48704821 7.77142363  
6 2.10790715 0.90707548 5.75561358  
1 1.61775018 1.26694085 6.68338195  
1 3.14329410 1.30952261 5.73268344  
6 1.36194652 1.46153191 4.55713154  
1 1.81644804 1.09411423 3.61019808  
1 1.48780947 2.56527381 4.55887713  
6 -0.81478564 1.63299464 3.59708633  
1 -0.53202269 2.68448139 3.38227831  
1 -0.64745252 1.07745485 2.64672998  
6 -2.28015664 1.63562824 4.01752092  
1 -2.85463552 2.15299886 3.21124431  
1 -2.34828420 2.27124583 4.91477989  
8 -1.67065895 2.55419479 -5.82636553  
8 -2.06664435 -0.10758686 -4.90944651

8 1.50382712 1.56543514 -8.78011003  
8 0.99286596 -1.15737010 -7.83169417  
8 2.32871755 3.24433719 -4.72892895  
8 2.52233442 0.43387217 -4.07921102  
7 0.56647085 3.93485738 -7.20446128  
7 0.60839219 -1.71036516 -4.85605619  
6 -0.84224829 4.26755850 -7.42698832  
1 -0.99911831 5.35416935 -7.64526894  
1 -1.17141056 3.73117295 -8.33144868  
6 -1.78726172 3.90095040 -6.27855618  
1 -2.82564630 4.13140704 -6.59414766  
1 -1.58502548 4.52787211 -5.39160970  
6 -2.31055935 1.56779864 -6.63808225  
1 -3.40924900 1.60969881 -6.48799266  
1 -2.09732079 1.72829795 -7.71331006  
6 -1.77458121 0.19162091 -6.28472720  
1 -0.68903062 0.13452851 -6.49038413  
1 -2.28442608 -0.53801114 -6.94825796  
6 -1.91971744 -1.49387762 -4.56544163  
1 -2.66383065 -1.69941338 -3.77471239  
1 -2.19161620 -2.12087785 -5.43682768  
6 -0.55883244 -1.89812728 -3.98523849  
1 -0.66707342 -2.96374087 -3.65671261  
1 -0.39938802 -1.32806769 -3.05249380  
6 1.29793151 3.94329715 -8.47818470  
1 1.09966572 4.87358915 -9.06360445  
1 2.37803007 3.93074812 -8.26260429  
6 1.01943350 2.75021206 -9.38418107  
1 1.52886385 2.94036258 -10.35503584  
1 -0.06449345 2.65922198 -9.61529443  
6 1.29671265 0.43238417 -9.60874066  
1 0.21654172 0.29006616 -9.83054353  
1 1.82374210 0.54831893 -10.58100599  
6 1.83193117 -0.80517588 -8.92204218  
1 2.86876025 -0.60640210 -8.57676185  
1 1.87692170 -1.62880329 -9.66763242  
6 1.48850771 -2.29894850 -7.15034607  
1 1.52282727 -3.17721646 -7.83252346  
1 2.52950558 -2.12242312 -6.80719824  
6 0.57481292 -2.65399547 -5.98450994  
1 0.82605002 -3.69112409 -5.65576283  
1 -0.45189452 -2.69265089 -6.38188031  
6 1.20027578 4.82196821 -6.22358288  
1 1.39340907 5.83915639 -6.64648698  
1 0.50719101 4.97361320 -5.37803932  
6 2.52509254 4.31514484 -5.65597163  
1 3.03342993 5.16511674 -5.15267442  
1 3.19218605 3.97899777 -6.47406459  
6 3.55689680 2.56157899 -4.45953248  
1 3.97266252 2.14687774 -5.40070991  
1 4.30778001 3.25696303 -4.02689437  
6 3.34268986 1.42857434 -3.47425744  
1 2.90027672 1.81291967 -2.52817386

1 4.33899875 1.01426605 -3.20983817  
6 2.30581467 -0.70724827 -3.24357549  
1 3.24927740 -1.00437986 -2.74026726  
1 1.58641569 -0.48237221 -2.42408267  
6 1.85864492 -1.88681944 -4.09939745  
1 1.81021991 -2.78066729 -3.43129702  
1 2.66757397 -2.07406159 -4.82350486

{Fe<sup>II</sup>(TPP<sup>2-</sup>)<sup>0</sup>}, S = 1

charge=0 mult=3

26 2.62169542 10.51978338 18.39681507  
7 2.84261667 8.56293369 18.69058876  
7 3.53676914 10.35192922 16.63655501  
6 4.60864611 15.47229830 12.74616149  
6 5.89360745 4.68929080 14.41718787  
6 3.83083409 11.37072310 15.73697108  
6 4.57930402 10.85922005 14.61854440  
1 4.94869643 11.45832438 13.79261795  
6 4.73850219 9.51794752 14.82223761  
1 5.26228475 8.80230667 14.19746075  
6 4.08799336 9.20607245 16.06762658  
6 4.05944030 7.92016454 16.61886297  
6 3.46505150 7.63911544 17.85418946  
6 3.41401437 6.31924053 18.42570624  
1 3.82059544 5.42520151 17.96511358  
6 2.76999720 6.43274310 19.62501470  
1 2.55436795 5.64952195 20.34443010  
6 2.41092856 7.81794334 19.78257425  
6 3.49399435 12.72158867 15.88326017  
6 3.88022519 13.67634132 14.79626826  
6 4.91097115 14.61282002 14.99584614  
1 5.43422097 14.63452610 15.95364814  
6 5.27421488 15.50177116 13.97766181  
1 6.08141943 16.21666650 14.14712414  
6 3.57983527 14.54575628 12.53808149  
1 3.05197672 14.51837318 11.58306185  
6 3.22064401 13.65252836 13.55398411  
1 2.41605216 12.93303319 13.39088182  
6 4.69542010 6.79917815 15.85604886  
6 4.09330616 6.29407866 14.68947794  
1 3.15070426 6.72458903 14.34612742  
6 4.68666258 5.24573054 13.97681217  
1 4.20217523 4.86159659 13.07727165  
6 6.50252275 5.18648915 15.57582779  
1 7.44613497 4.76243929 15.92390073  
6 5.90700886 6.23194318 16.29093789  
1 6.38527154 6.62056546 17.19202412  
7 2.39784079 12.47616347 18.10153897  
7 1.71017207 10.68808727 20.15889968  
6 0.59230075 5.55716065 24.02329352  
6 -0.60719557 16.35746258 22.40098888  
6 1.41148538 9.66866268 21.05626197  
6 0.67319092 10.18272099 22.18030675

1	0.30268956	9.58384887	23.00591204
6	0.52589224	11.52626806	21.98276084
1	0.01197544	12.24442839	22.61285067
6	1.17114580	11.83648907	20.73419269
6	1.19851272	13.12208792	20.18234450
6	1.77926227	13.40066898	18.94009903
6	1.82017741	14.71862963	18.36343984
1	1.41460291	15.61292463	18.82444389
6	2.45311253	14.60304206	17.15843129
1	2.65899555	15.38449341	16.43428346
6	2.81754928	13.21892952	17.00340886
6	1.73542295	8.31546229	20.90313809
6	1.33936956	7.35843029	21.98468687
6	0.29672203	6.43634619	21.78035839
1	-0.22768308	6.42725720	20.82297597
6	-0.07558485	5.54453050	22.79278258
1	-0.89149248	4.84051779	22.61950228
6	1.63291641	6.46939558	24.23606922
1	2.16233573	6.48369665	25.19047112
6	2.00170201	7.36501489	23.22569211
1	2.81515067	8.07362029	23.39256982
6	0.57225652	14.24476232	20.95086048
6	1.19254060	14.75622506	22.10497932
1	2.14175261	14.32939830	22.43443797
6	0.60855985	15.80613359	22.82312595
1	1.10711058	16.19521303	23.71279776
6	-1.23434125	15.85361954	21.25501692
1	-2.18491723	16.27360264	20.92124177
6	-0.64810696	14.80681008	20.53423132
1	-1.14057937	14.41321728	19.64301064
1	-1.06347001	17.17478403	22.96195812
1	4.89038373	16.16705916	11.95318471
1	0.30333057	4.86035214	24.81185605
1	6.35712410	3.87305640	13.86058659

{Fe<sup>I</sup>(TPP<sup>2-</sup>)<sup>-</sup>}, S = 1/2

charge=-1 mult=2

26	2.62156030	10.51987325	18.39664580
7	2.84402596	8.56587274	18.69479925
7	3.53977574	10.35643104	16.64013841
6	4.58866005	15.47746034	12.72325551
6	5.88683346	4.68179979	14.41094253
6	3.83281482	11.37501113	15.72869633
6	4.58081929	10.86291275	14.61185345
1	4.95003452	11.45781405	13.78242267
6	4.74212989	9.51965961	14.82110554
1	5.26782786	8.80564607	14.19486785
6	4.09208844	9.20776027	16.06589229
6	4.06014033	7.92277588	16.62102066
6	3.46825054	7.63671714	17.85730546
6	3.41132707	6.31646754	18.42543537
1	3.81354049	5.41987109	17.96438187
6	2.76466337	6.42602652	19.62712578

1 2.54928537 5.63843456 20.34236338  
6 2.40856704 7.81043465 19.78761622  
6 3.48960411 12.72449132 15.87572341  
6 3.86966169 13.67641596 14.78695486  
6 4.86007465 14.65614758 14.99268828  
1 5.35077893 14.71183241 15.96613036  
6 5.21591697 15.54779908 13.97368483  
1 5.98946258 16.29718552 14.15653152  
6 3.60261837 14.50723947 12.50340005  
1 3.10362469 14.44394599 11.53365535  
6 3.24767207 13.61809107 13.52490878  
1 2.47919560 12.86242667 13.35180736  
6 4.69178759 6.80296904 15.85748405  
6 4.12637796 6.33693558 14.65493061  
1 3.21421890 6.80889628 14.28511264  
6 4.71648439 5.28903996 13.93817796  
1 4.25731535 4.94330438 13.00918053  
6 6.46051603 5.13430834 15.60597633  
1 7.37533225 4.67172149 15.98347883  
6 5.86918685 6.18374378 16.31945087  
1 6.31794126 6.53519701 17.25036789  
7 2.39348687 12.47302175 18.09563925  
7 1.70928737 10.68430024 20.15614278  
6 0.59787645 5.54903445 24.03809092  
6 -0.58670390 16.36649040 22.41580967  
6 1.41213992 9.66520197 21.06579259  
6 0.68147989 10.18151494 22.19225627  
1 0.31453657 9.58809412 23.02384833  
6 0.53450138 11.52749976 21.99018621  
1 0.02371010 12.24521602 22.62449678  
6 1.17296357 11.83632067 20.73868037  
6 1.20071589 13.12044336 20.18141032  
6 1.77333040 13.40299221 18.93537538  
6 1.81415939 14.72015956 18.35873226  
1 1.41104989 15.61664403 18.81924404  
6 2.44731935 14.60789355 17.15020533  
1 2.64875935 15.39266187 16.42785600  
6 2.81392513 13.22563864 16.99500219  
6 1.73651104 8.31226481 20.90875166  
6 1.34314848 7.35706942 21.98997599  
6 0.33593475 6.39624887 21.77710541  
1 -0.15715381 6.35778902 20.80401575  
6 -0.03278083 5.50095503 22.78832540  
1 -0.81910261 4.76637969 22.59997645  
6 1.60062025 6.50033131 24.26497757  
1 2.10255031 6.54600659 25.23419735  
6 1.96866552 7.39284640 23.25105090  
1 2.75047260 8.13345457 23.42947406  
6 0.58254541 14.24260710 20.95272706  
6 1.17171687 14.71395913 22.14163596  
1 2.09214563 14.24492295 22.49432005  
6 0.59439490 15.76337409 22.86658506  
1 1.07183512 16.11345411 23.78468252

6	-1.18416761	15.90834993	21.23465685
1	-2.10763145	16.36766195	20.87460687
6	-0.60553406	14.85744050	20.51294189
1	-1.07298014	14.50119950	19.59310977
1	-1.03755839	17.18574794	22.97990762
1	4.86597709	16.17202846	11.92743827
1	0.31043483	4.85176415	24.82792690
1	6.34762200	3.86370580	13.85322432

{Cu<sup>II</sup>(TPP<sup>2-</sup>)<sup>0</sup>}, S = 1/2

charge=0 mult=2

29	2.62377004	10.52047566	18.39812275
7	2.85422772	8.53457963	18.70304648
7	3.54448942	10.35169140	16.60553280
6	4.59943048	15.47517884	12.73230164
6	5.88524831	4.68698370	14.41240573
6	3.83502172	11.37309721	15.72013882
6	4.58808306	10.86066550	14.59896127
1	4.95899313	11.45599694	13.77101357
6	4.74754568	9.51970570	14.80697476
1	5.27572873	8.80618910	14.18296604
6	4.09178501	9.20726395	16.05564160
6	4.06042981	7.92049481	16.61905933
6	3.47243591	7.62849089	17.86135753
6	3.41924991	6.30263083	18.43240604
1	3.82031719	5.40641029	17.97057440
6	2.77574458	6.41246601	19.63275394
1	2.56096906	5.62598240	20.34876622
6	2.41951737	7.80320172	19.79288054
6	3.49285528	12.72694443	15.87560483
6	3.87731269	13.68122108	14.78703092
6	4.89787733	14.62875288	14.98748825
1	5.41338662	14.66279381	15.94908807
6	5.25674087	15.51768842	13.96776385
1	6.05372571	16.24342065	14.13968145
6	3.58213676	14.53638550	12.52240192
1	3.06228259	14.49704980	11.56345546
6	3.22512870	13.64528759	13.54090164
1	2.43111246	12.91481972	13.37496772
6	4.69362084	6.79910464	15.85449271
6	4.10462731	6.31580828	14.67170848
1	3.17525544	6.76463229	14.31620739
6	4.69459238	5.26653900	13.95772906
1	4.22078479	4.90060348	13.04505721
6	6.48114898	5.16217826	15.58689377
1	7.41160734	4.71953424	15.94697939
6	5.88902437	6.20839899	16.30357951
1	6.35694854	6.57864836	17.21764207
7	2.39252745	12.50622541	18.09274954
7	1.70356506	10.68906533	20.19099990
6	0.59988138	5.55259288	24.03491317
6	-0.60627927	16.35857454	22.40265092
6	1.40606077	9.66641648	21.07274364

6	0.65692656	10.18007480	22.19600591
1	0.28143338	9.58422879	23.02151005
6	0.50753941	11.52300307	21.99332711
1	-0.01442610	12.23819044	22.62063764
6	1.16413335	11.83517640	20.74501165
6	1.19894346	13.12269468	20.18341412
6	1.78055241	13.41344333	18.93779073
6	1.82916091	14.73836248	18.36422151
1	1.43191925	15.63530628	18.82792530
6	2.46176249	14.62652660	17.15832629
1	2.66996646	15.41207954	16.43936732
6	2.81803472	13.23582648	16.99804654
6	1.74045819	8.31114720	20.91308849
6	1.34483066	7.35390307	21.99516051
6	0.31787978	6.41572524	21.78400180
1	-0.19398837	6.39241744	20.82013419
6	-0.05272397	5.52340484	22.79653862
1	-0.85490024	4.80537381	22.61679163
6	1.62411107	6.48146485	24.25498215
1	2.14062612	6.50993371	25.21612155
6	1.99256154	7.37628711	23.24380915
1	2.79232864	8.09864687	23.41739851
6	0.57288299	14.24520786	20.95223350
6	1.16874143	14.72529422	22.13289555
1	2.09849665	14.27331644	22.48339921
6	0.58495668	15.77511944	22.85094870
1	1.06389693	16.13847900	23.76196622
6	-1.20904526	15.88648301	21.23044236
1	-2.14007079	16.33199218	20.87538427
6	-0.62315026	14.83957077	20.50971604
1	-1.09661155	14.47138299	19.59768022
1	-1.06232075	17.17594703	22.96372519
1	4.87855459	16.16921264	11.93777290
1	0.31175825	4.85584638	24.82383633
1	6.34618814	3.87008856	13.85464967

{Cu<sup>II</sup>(TPP<sup>3-</sup>)<sup>-</sup>}, S = 1

charge=-1 mult=3

29	2.61944440	10.51859764	18.39606602
7	2.85933747	8.51129878	18.70704451
7	3.31997848	10.30025257	16.44871505
6	4.63931916	15.45080286	12.70783988
6	5.86868020	4.70215203	14.34500251
6	3.71006624	11.34546834	15.62943653
6	4.58640464	10.85600109	14.57921065
1	5.06401684	11.46659379	13.81831741
6	4.73989646	9.51418051	14.78339304
1	5.36757898	8.82896334	14.22098486
6	3.95851636	9.17397894	15.96058398
6	3.95452531	7.89637353	16.55219127
6	3.43236731	7.60044953	17.84001895
6	3.40012156	6.28130250	18.42014130
1	3.73842344	5.36727731	17.94143611



6 2.79623956 6.40096860 19.65071518  
1 2.64207225 5.61596653 20.38496246  
6 2.46403778 7.79284094 19.82009401  
6 3.40134575 12.70570646 15.81735864  
6 3.82708293 13.65985973 14.74997162  
6 4.75423065 14.68933620 15.01212494  
1 5.16507308 14.78397799 16.01859388  
6 5.15628404 15.57299485 14.00470568  
1 5.88180606 16.35723771 14.23269652  
6 3.71842119 14.43275635 12.43104387  
1 3.30560583 14.32669221 11.42519545  
6 3.31808804 13.54897888 13.43996478  
1 2.59775042 12.75870419 13.22119384  
6 4.61407668 6.78908357 15.79872022  
6 4.14700868 6.40587625 14.52454513  
1 3.28510934 6.92583831 14.10269623  
6 4.76558659 5.37613861 13.80626371  
1 4.38026718 5.09706321 12.82286173  
6 6.34601152 5.07182990 15.60978577  
1 7.21106807 4.56078252 16.03865609  
6 5.72591546 6.10066406 16.32679895  
1 6.10657694 6.38962924 17.30778125  
7 2.38030063 12.52646204 18.08554558  
7 1.91891279 10.73795144 20.34301848  
6 0.62167017 5.59127469 24.09649037  
6 -0.63674583 16.33730904 22.43900919  
6 1.53442949 9.69334709 21.16554578  
6 0.66032122 10.18262066 22.21778667  
1 0.18696960 9.57238379 22.98161696  
6 0.50229648 11.52356408 22.01120860  
1 -0.12523394 12.20829603 22.57436235  
6 1.27875920 11.86344786 20.83072837  
6 1.28085647 13.14066753 20.23836619  
6 1.80444049 13.43683940 18.95121921  
6 1.83921840 14.75642008 18.37239887  
1 1.50060250 15.67029866 18.85120234  
6 2.44641849 14.63743926 17.14335921  
1 2.60252527 15.42275953 16.40983903  
6 2.77898117 13.24562298 16.97421620  
6 1.84477105 8.33335506 20.97833589  
6 1.42426984 7.38007638 22.04860031  
6 0.49683715 6.34951044 21.79170347  
1 0.08228889 6.25297739 20.78691004  
6 0.09987612 5.46666033 22.80179504  
1 -0.62616583 4.68173084 22.57787230  
6 1.54306679 6.61026689 24.36808854  
1 1.96017159 6.71782468 25.37201578  
6 1.93899164 7.49270570 23.35620106  
1 2.65955536 8.28382472 23.57103286  
6 0.62000603 14.24833261 20.99028356  
6 1.08713950 14.63541807 22.26320376  
1 1.95014501 14.11790944 22.68584703  
6 0.46747551 15.66624847 22.97900986

1 0.85281924 15.94841186 23.96151461  
6 -1.11404370 15.96388899 21.17529736  
1 -1.97985504 16.47282649 20.74543026  
6 -0.49270696 14.93415230 20.46065973  
1 -0.87290376 14.64254834 19.48028579  
1 -1.12102570 17.14190180 22.99646744  
1 4.95208919 16.14118257 11.92166865  
1 0.31233977 4.90194025 24.88493753  
1 6.35211910 3.89833132 13.78570898

{Cu<sup>II</sup>(TPP<sup>4-</sup>)}<sup>2-</sup>, S = 1/2

charge=-2 mult=2

29 2.62316608 10.52096486 18.39742391  
7 2.89019046 8.50162239 18.72674071  
7 3.39067806 10.32227431 16.47879027  
6 4.53362223 15.44570420 12.60433790  
6 5.88484365 4.68066136 14.34535668  
6 3.74629005 11.36479131 15.63871346  
6 4.61213062 10.87630924 14.59458502  
1 5.07133994 11.47984198 13.81687893  
6 4.77797126 9.52514386 14.80343461  
1 5.41169531 8.84656024 14.23919047  
6 4.02067923 9.18575361 15.97937817  
6 4.01154253 7.89912422 16.57154498  
6 3.45938289 7.59171451 17.84210164  
6 3.37046587 6.26637308 18.38835445  
1 3.69617993 5.35262834 17.89934882  
6 2.75142575 6.37585088 19.61661866  
1 2.56038083 5.57420222 20.32354872  
6 2.44074920 7.76728004 19.81208200  
6 3.40637211 12.73656548 15.80658009  
6 3.79410738 13.66914474 14.72178618  
6 4.59487856 14.81577920 14.95621301  
1 4.94579427 15.00713268 15.97132509  
6 4.95375090 15.68571458 13.92216262  
1 5.58126381 16.55368975 14.14536185  
6 3.74724541 14.31057702 12.34700740  
1 3.40189934 14.10440387 11.32966856  
6 3.38676638 13.44382594 13.38252173  
1 2.76923892 12.56948431 13.16942218  
6 4.65403051 6.79473838 15.81206282  
6 4.25055256 6.47775856 14.49343021  
1 3.44517032 7.06015303 14.04283032  
6 4.85377529 5.44112830 13.77280610  
1 4.50853042 5.21848539 12.75916960  
6 6.30126155 4.98077901 15.65143051  
1 7.11200773 4.40869688 16.11145368  
6 5.69787237 6.01902696 16.36958493  
1 6.03521188 6.25173021 17.38080503  
7 2.35430284 12.53979327 18.06824756  
7 1.85740520 10.71655705 20.31762608  
6 0.60110951 5.56612079 24.12608759  
6 -0.53703617 16.37548030 22.50918635

6 1.48455581 9.67355142 21.15005647  
 6 0.62716936 10.16858249 22.19822626  
 1 0.15748724 9.56743384 22.97148627  
 6 0.48870780 11.52494658 22.00256283  
 1 -0.13247392 12.20998560 22.57293620  
 6 1.24782803 11.85956032 20.82645050  
 6 1.26665295 13.14823695 20.23878946  
 6 1.80054716 13.45260861 18.95993435  
 6 1.87902362 14.77604756 18.40760376  
 1 1.56204535 15.69141854 18.89924565  
 6 2.47364993 14.66232870 17.16775458  
 1 2.65015664 15.46172631 16.45460742  
 6 2.78381726 13.27081709 16.97241570  
 6 1.80630766 8.29885965 20.97278121  
 6 1.39228539 7.35967306 22.04208795  
 6 0.58050915 6.22651372 21.78190682  
 1 0.24160489 6.05269621 20.75952773  
 6 0.19609169 5.34832255 22.79964459  
 1 -0.43922325 4.49138819 22.55677534  
 6 1.39879999 6.68718161 24.40864956  
 1 1.73294038 6.87569304 25.43313214  
 6 1.78469544 7.56230344 23.38938268  
 1 2.41158777 8.42490209 23.62196634  
 6 0.64736187 14.25641439 21.01217411  
 6 1.07837547 14.56490669 22.32399041  
 1 1.88653085 13.97331121 22.75739185  
 6 0.49797161 15.60409218 23.05956129  
 1 0.86399385 15.81987433 24.06736808  
 6 -0.98113728 16.08334877 21.21047323  
 1 -1.79582856 16.66375514 20.76817977  
 6 -0.40071990 15.04232403 20.47744008  
 1 -0.75991375 14.81545504 19.47244775  
 1 -0.99013100 17.18833811 23.08227983  
 1 4.81437081 16.12556385 11.79619003  
 1 0.30059108 4.87968987 24.92147420  
 1 6.35584193 3.86993067 13.78380195

{Cu<sup>II</sup>(TPP<sup>4-</sup>)}<sup>2-</sup>, S = 3/2

charge=-2 mult=4

29 2.62130472 10.52042424 18.39636370  
 7 2.85301243 8.50704862 18.70500395  
 7 3.48180875 10.33498953 16.54422151  
 6 4.53594071 15.47184020 12.63740316  
 6 5.87615497 4.65569783 14.35258567  
 6 3.78674934 11.36968020 15.66449440  
 6 4.57844777 10.86448140 14.58108307  
 1 4.99532148 11.45942724 13.77426033  
 6 4.74495624 9.51140859 14.79400680  
 1 5.31909746 8.81640170 14.18902613  
 6 4.05357956 9.18510294 16.00698230  
 6 4.03751839 7.89160196 16.58612516  
 6 3.46678952 7.59651594 17.84925968  
 6 3.40991727 6.28349109 18.42196859

1 3.78873599 5.37636653 17.96166517  
6 2.78771181 6.39979284 19.64822541  
1 2.60169858 5.60834318 20.36742697  
6 2.42544428 7.77734321 19.81080514  
6 3.45236598 12.73716914 15.82931365  
6 3.82428171 13.67490716 14.74113387  
6 4.64366056 14.80592957 14.97677402  
1 5.01546080 14.97682682 15.98834470  
6 4.99033796 15.68776349 13.94778897  
1 5.63361232 16.54464024 14.16828487  
6 3.72683842 14.35342488 12.38064366  
1 3.35274419 14.17066738 11.36908993  
6 3.37820755 13.47529715 13.41174650  
1 2.74057037 12.61465499 13.20262269  
6 4.66703896 6.78444245 15.82476084  
6 4.25259318 6.46291421 14.50917313  
1 3.44474060 7.04534104 14.06292132  
6 4.84483033 5.42208192 13.78673958  
1 4.48895795 5.19795184 12.77692073  
6 6.30269898 4.95772100 15.65540336  
1 7.11406534 4.38283378 16.11128032  
6 5.71199896 6.00203258 16.37433463  
1 6.06155953 6.23581407 17.38127475  
7 2.38937145 12.53422322 18.08772981  
7 1.76098978 10.70479257 20.24848625  
6 0.61586237 5.54501840 24.10283964  
6 -0.53706290 16.39800052 22.49870701  
6 1.44303144 9.66872501 21.12211813  
6 0.65917598 10.17780760 22.20941008  
1 0.23547074 9.58387007 23.01338972  
6 0.51392340 11.53492310 22.00703444  
1 -0.04920232 12.23415978 22.61749426  
6 1.20651408 11.85902846 20.79412501  
6 1.23229333 13.15473154 20.22014946  
6 1.78805255 13.44735179 18.94978674  
6 1.83643868 14.75862217 18.37228640  
1 1.46499946 15.66738056 18.83527083  
6 2.43790762 14.63815352 17.13617249  
1 2.61154587 15.42738571 16.41149612  
6 2.79971643 13.26058292 16.97315002  
6 1.76314686 8.29882704 20.94996038  
6 1.37008502 7.35563364 22.02598642  
6 0.54056873 6.23657588 21.76978333  
1 0.17871830 6.08024075 20.75224326  
6 0.17318809 5.34779226 22.78542341  
1 -0.47716701 4.50056301 22.54906094  
6 1.43492475 6.65115184 24.37984617  
1 1.80043757 6.81888469 25.39712912  
6 1.80483453 7.53586244 23.36177812  
1 2.45027831 8.38665282 23.58676647  
6 0.62547572 14.26504434 20.99532760  
6 1.06282368 14.57325416 22.30672247  
1 1.86997221 13.97809812 22.73736314

6	0.49353969	15.61610100	23.04446502
1	0.86673017	15.82941250	24.05035867
6	-0.98637072	16.10913181	21.20064331
1	-1.79791165	16.69599649	20.76060360
6	-0.41851787	15.06276916	20.46637708
1	-0.78656010	14.83912294	19.46375856
1	-0.98116424	17.21465316	23.07331048
1	4.80729809	16.16002293	11.83298302
1	0.32812373	4.85171964	24.89710763
1	6.33808352	3.84070970	13.78979198