

Supporting Information

Table S1. Chemical hardness (η) and electrophilicity (ω) for the optimized Ni(I)-TPA complexes.

		μ	η	ω
SOMO	Ni(I)-F	-0.0749	0.0809	0.0347
	Ni(I)-Cl	-0.0787	0.0876	0.0354
	Ni(I)-Br	-0.0806	0.0935	0.0347
Average	Ni(I)-F	-0.0854	0.1052	0.0346
	Ni(I)-Cl	-0.0882	0.1086	0.0358
	Ni(I)-Br	-0.0891	0.1116	0.0356

Table S2. Chemical potential (μ), chemical hardness (η) and electrophilicity (ϵ) for the optimized Ni(II)-TPA complexes.

		μ	η	ω
SOMO	[Ni(II)-F]⁺¹	-0.1373	0.1343	0.0702
	[Ni(II)-Cl]⁺¹	-0.1400	0.1342	0.0730
	[Ni(II)-Br]⁺¹	-0.1406	0.1301	0.0760
Average	[Ni(II)-F]⁺¹	-0.1309	0.1473	0.0581
	[Ni(II)-Cl]⁺¹	-0.1333	0.1478	0.0601
	[Ni(II)-Br]⁺¹	-0.1334	0.1449	0.0614

Table S3. EDA in kcal/mol of the halide dissociation for the single point and optimized Ni(I)-TPA complexes without the hydrogen bonds (in their quintet state).

	Single point			Optimized		
	Ni(I)-F	Ni(I)-Cl'	Ni(I)-Br	Ni(I)-F	Ni(I)-Cl	Ni(I)-Br
ΔE_{Pauli}	55.0	34.4	58.5	84.7	59.2	80.2
ΔV_{elstat}	-62.9	-52.1	-75.5	-122.2	-92.8	-109.2
ΔE_{oi}	-87.5	-59.3	-61.3	-98.0	-73.7	-73.7
ΔE_{disp}	-1.3	-6.1	-8.0	-0.4	-3.7	-5.1
ΔE_{int}	-96.8	-83.2	-86.2	-135.9	-111.1	-107.7

^a EDA values for Ni(I)-Cl are 25.6, -38.1, -55.0, -6.3, and -73.8 kcal/mol for ΔE_{Pauli} , ΔE_{elstat} , ΔE_{oi} , ΔE_{disp} , and ΔE_{int} , respectively.

Figure S1. EDA fragmentation models taken into study. Model A corresponds to the original system; model B corresponds to the system in which the 3 H atoms forming the NH...halide bonds have been removed, but the geometry kept; and model C is equivalent to model B but allowed to fully relax. In all cases the halogen has been considered as anionic (-1), whereas the Ni(TPA) fragment is +1 and doublet or +2 and triplet. All results correspond to heterolytic breaking, as only small charge transfer is observed from the halogen to the Ni(TPA) fragments.

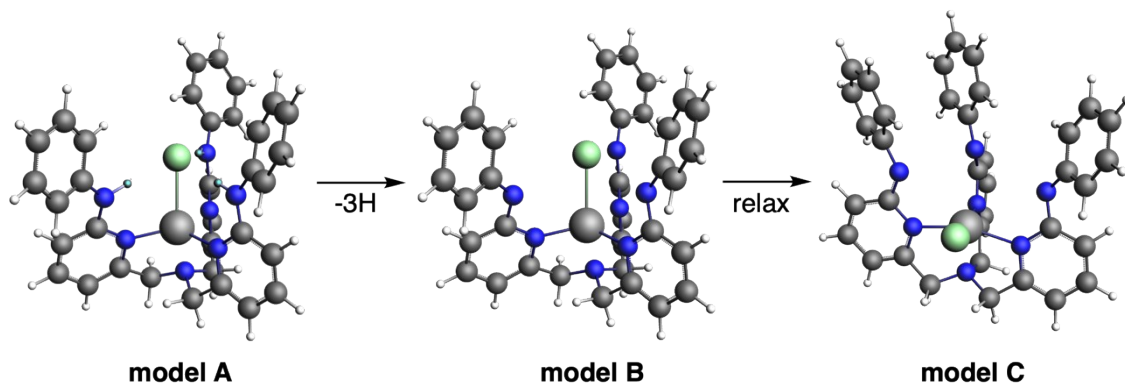
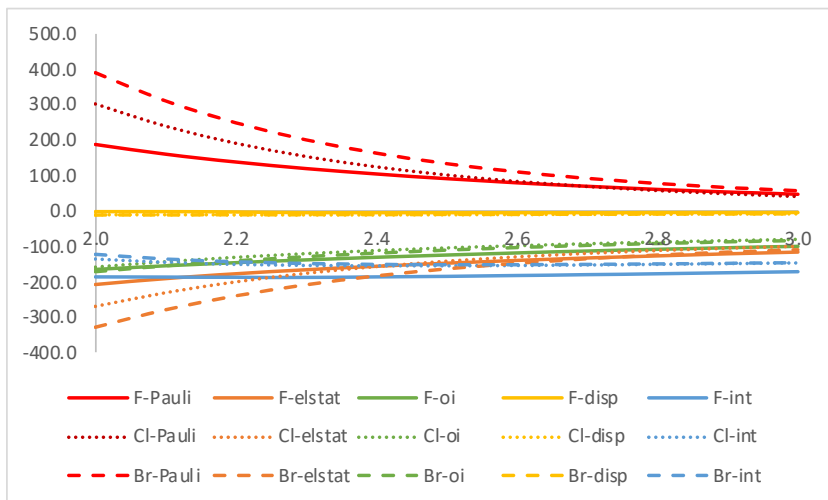


Table S4. MCI (in au), NICS(0) and HOMA aromaticity criteria for the optimized Ni(I)-TPA and Ni(II)-TPA complexes.

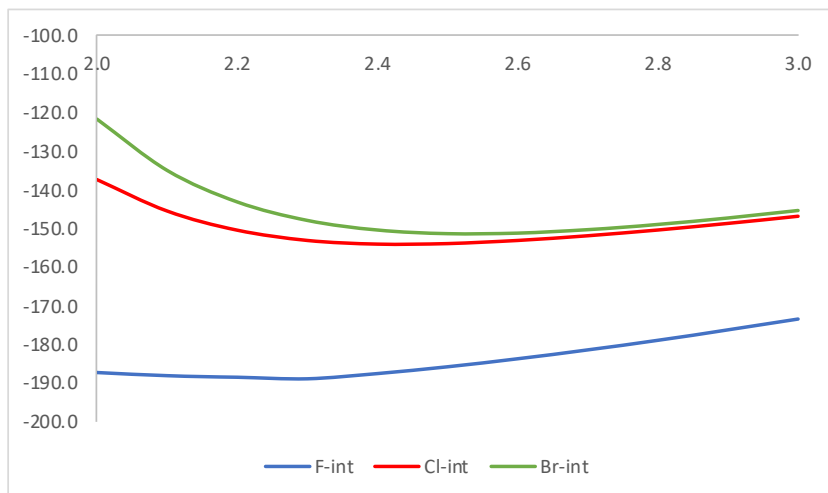
<i>ring</i>	Ni(I)-F	[Ni(II)-F] ⁺¹	Ni(I)-Cl	[Ni(II)-Cl] ⁺¹	Ni(I)-Br	[Ni(II)-Br] ⁺¹	[Ni(I)] ⁺¹	[Ni(II)] ⁺²	ligand
MCI									
C ₆	0.059	0.061	0.060	0.061	0.059	0.062	0.058	0.062	0.059
C ₅ N	0.038	0.038	0.045	0.039	0.046	0.039	0.042	0.039	0.049
C ₂ N ₂ Ni	0.001	0.001	0.000	0.001	0.000	0.001	0.001	0.001	
NICS(0)									
C ₆	-6.5	-6.2	-6.6	-6.4	-6.9	-6.6	-6.7	-6.5	-7.4
C ₅ N	-1.4	-1.9	-3.2	-1.3	-4.0	-3.0	-1.5	-2.9	-5.4
C ₂ N ₂ Ni	-1.6	5.7	-1.8	7.0	-2.6	5.5	-2.9	2.6	
HOMA									
C ₆	0.952	0.962	0.962	0.964	0.955	0.965	0.940	0.970	0.957
C ₅ N	0.946	0.937	0.939	0.941	0.964	0.951	0.966	0.958	0.964

Figure S2. Complementary EDA analysis as a function of the Ni-X (X = F, Cl, Br) distance (in Å).

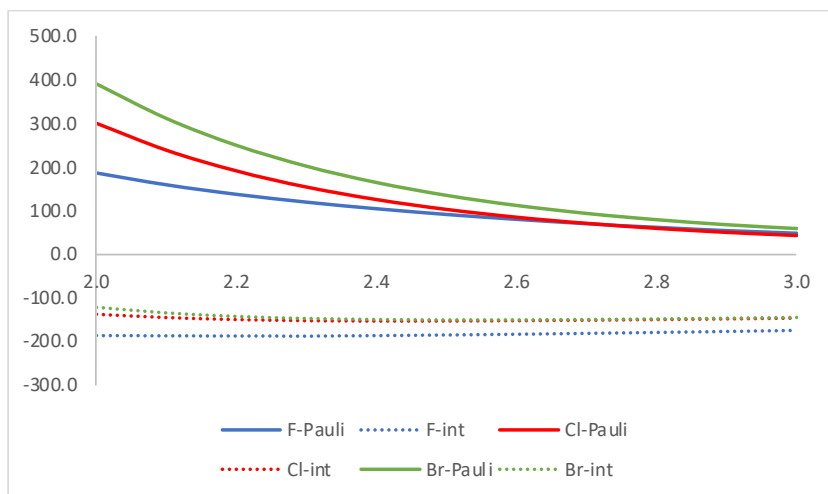
a) Complete EDA analysis.



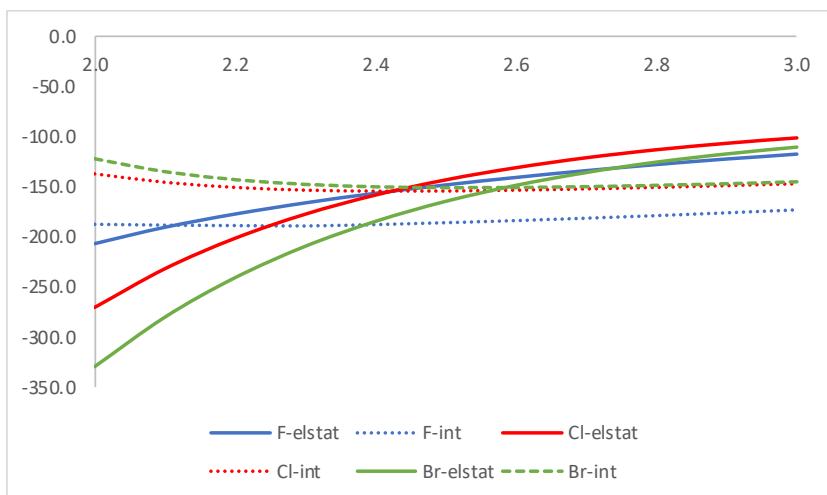
b) Interaction energies.



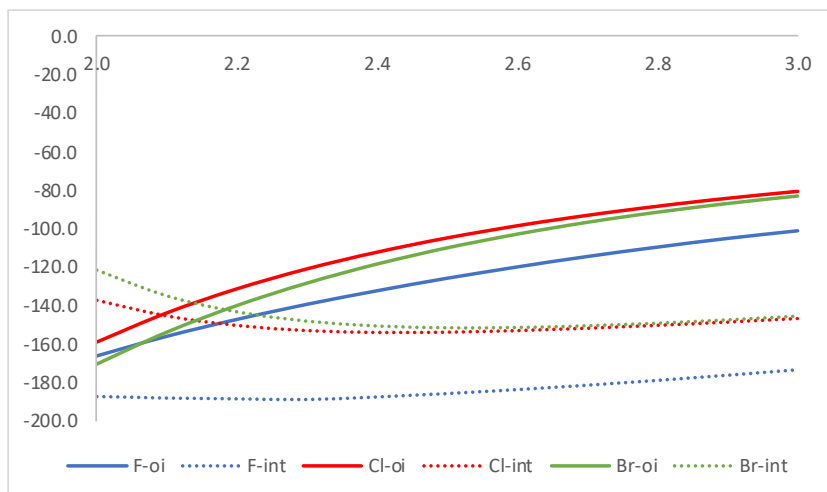
c) Pauli vs. Interaction energies.



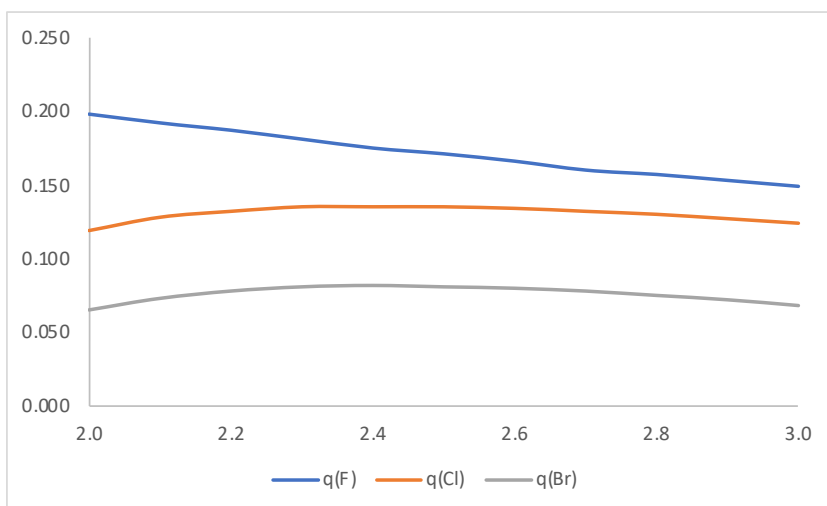
d) Electrostatic vs. Interaction energies.



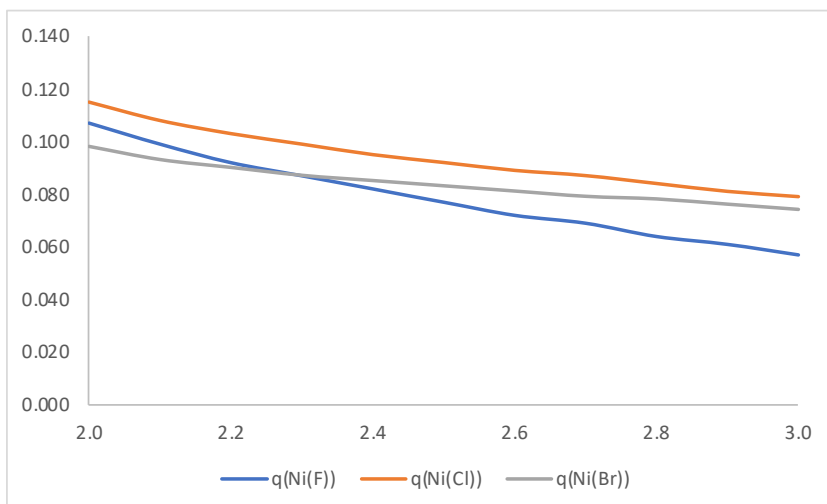
e) Orbital interactions vs. Interaction energies.



f) VDD charges of halogen.



g) VDD charges of Nickel atom.



h) Overlap between SOMO of Ni and HOMO of halogen.

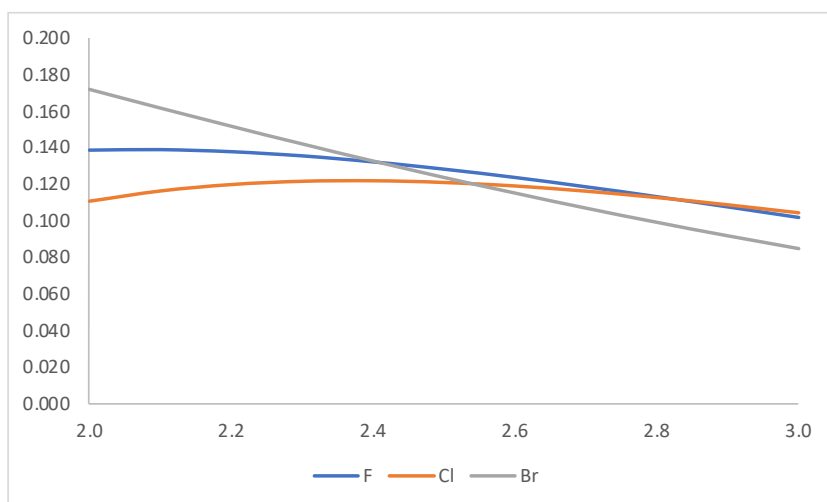
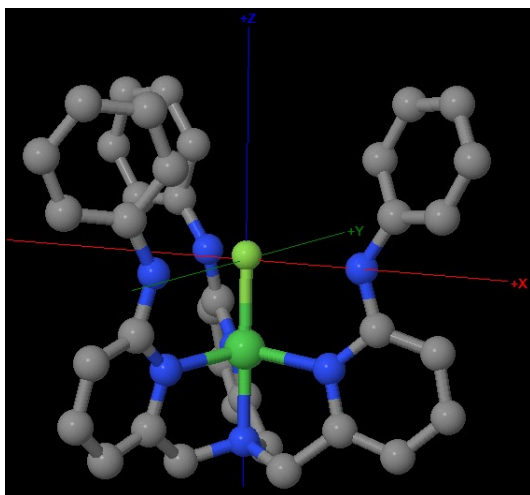


Table S5. EDA (in kcal/mol) of the halide dissociation of model Ni(I)-(NH₃)₂ and Ni(I)-(NH₃)₃ systems.

	F-Ni(NH ₃) ₂	Cl-Ni(NH ₃) ₂	Br-Ni(NH ₃) ₂	F-Ni(NH ₃) ₃	Cl-Ni(NH ₃) ₃	Br-Ni(NH ₃) ₃
ΔE_{Pauli}	84.4	61.5	77.7	104.6	35.6	90.7
ΔV_{elstat}	-164.3	-130.1	-138.3	-143.2	-83.9	-121.5
ΔE_{oi}	-81.5	-66.6	-68.8	-94.7	-51.8	-70.4
ΔE_{disp}	-0.7	-1.9	-2.3	-1.0	-2.4	-3.1
ΔE_{int}	-162.1	-137.1	-131.6	-134.4	-102.6	-104.4
$\Delta E_{\text{int}}^{\text{desolv}}$	135.7	112.2	106.8	129.6	98.5	96.5
$\Delta E_{\text{int}}^{\text{solv}}$	-26.4	-25.0	-24.7	-4.8	-4.0	-7.9

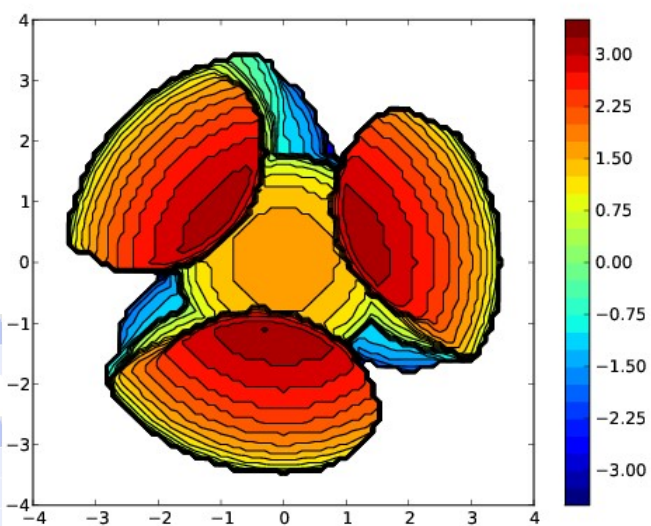
Details of the steric maps:

Ni(I)-F



%V Free	%V Buried	% V Tot/V Ex
28.2	71.8	99.9

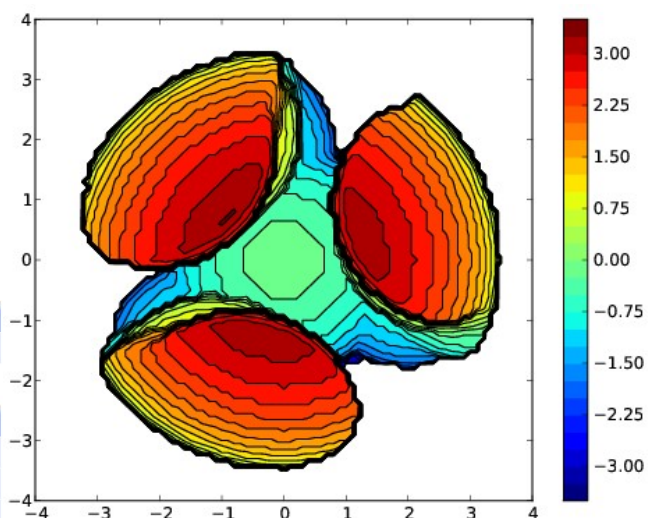
Quadrant	V f	V b	V t	%V f	%V b
SW	12.5	32.4	44.9	27.8	72.2
NW	6.8	38.1	44.9	15.1	84.9
NE	15.8	29.1	44.9	35.2	64.8
SE	15.5	29.3	44.9	34.6	65.4



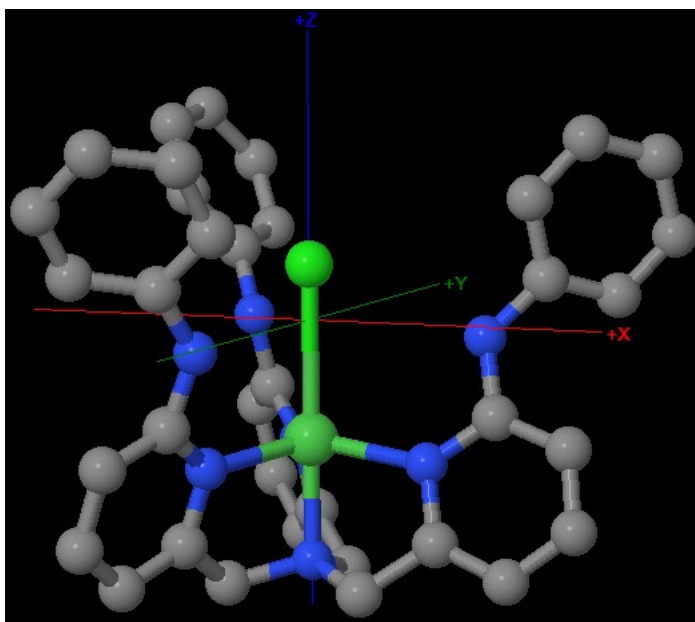
Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
34.0	66.0	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	13.6	31.3	44.9	30.3	69.7
NW	8.6	36.3	44.9	19.1	80.9
NE	16.7	28.2	44.9	37.2	62.8
SE	22.2	22.7	44.9	49.4	50.6

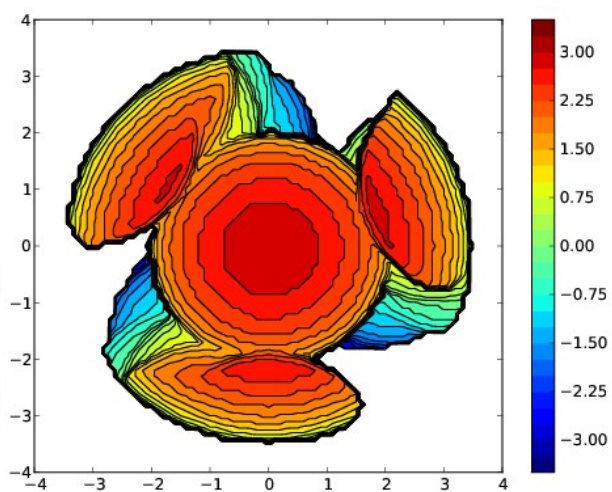


Ni(I)-Cl



%V Free	%V Buried	% V Tot/V Ex
29.0	71.0	99.9

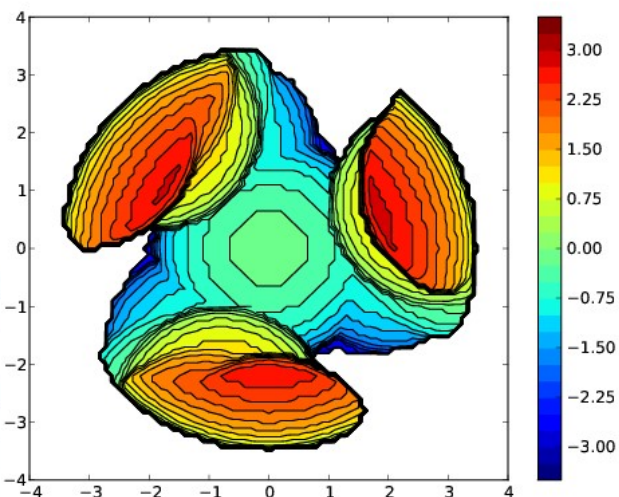
Quadrant	V f	V b	V t	%V f	%V b
SW	13.7	31.1	44.9	30.6	69.4
NW	8.3	36.6	44.9	18.5	81.5
NE	13.9	30.9	44.9	31.1	68.9
SE	16.2	28.7	44.9	36.0	64.0



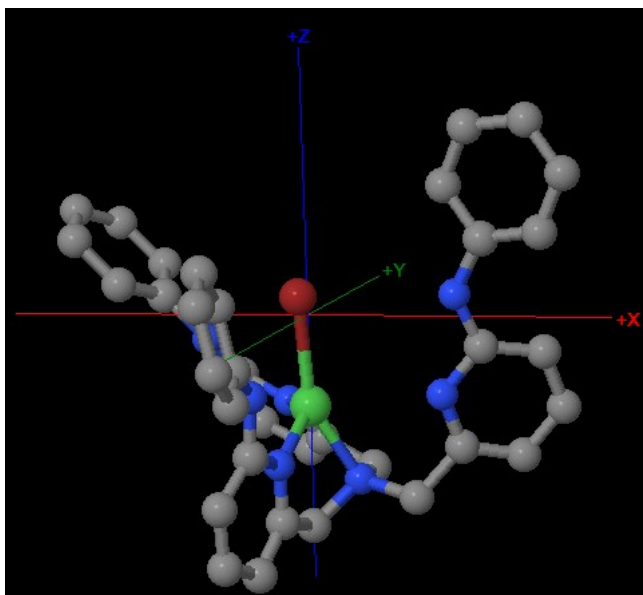
Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
45.0	55.0	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	20.8	24.0	44.9	46.4	53.6
NW	14.6	30.3	44.9	32.6	67.4
NE	20.9	23.9	44.9	46.7	53.3
SE	24.4	20.5	44.9	54.3	45.7

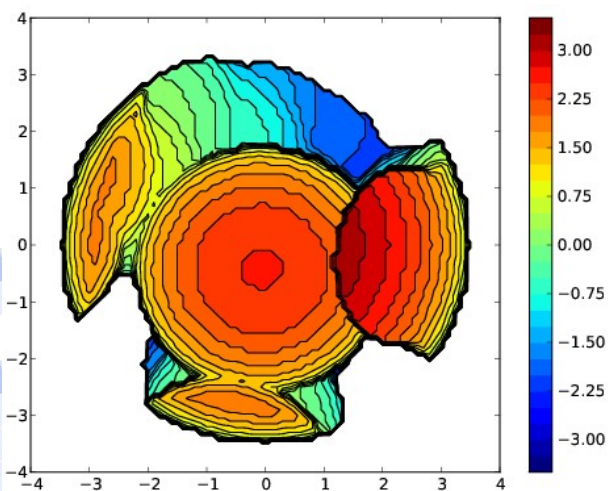


Ni(I)-Br



%V Free	%V Buried	% V Tot/V Ex
34.5	65.5	99.9

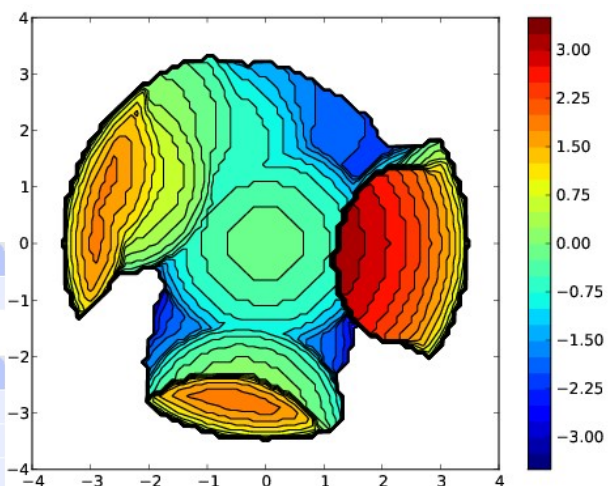
Quadrant	V f	V b	V t	%V f	%V b
SW	15.2	29.6	44.9	33.9	66.1
NW	14.0	30.9	44.9	31.2	68.8
NE	20.8	24.1	44.9	46.3	53.7
SE	12.0	32.9	44.9	26.6	73.4



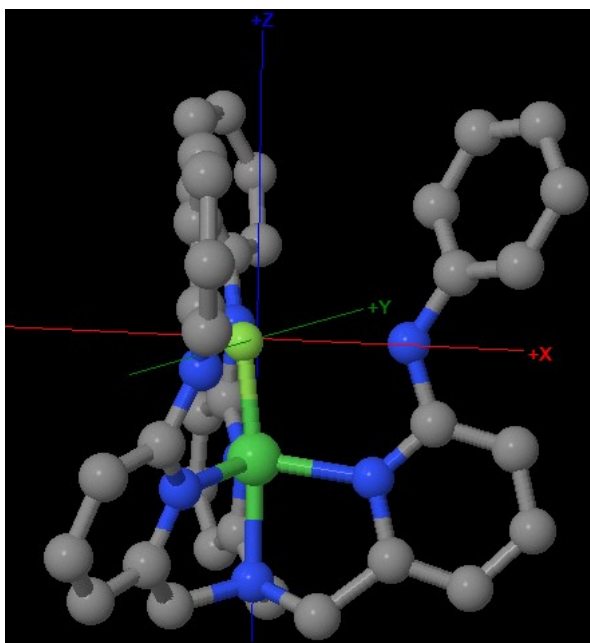
Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
52.5	47.5	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	26.4	18.5	44.9	58.8	41.2
NW	19.4	25.4	44.9	43.3	56.7
NE	26.4	18.5	44.9	58.8	41.2
SE	22.0	22.9	44.9	49.0	51.0

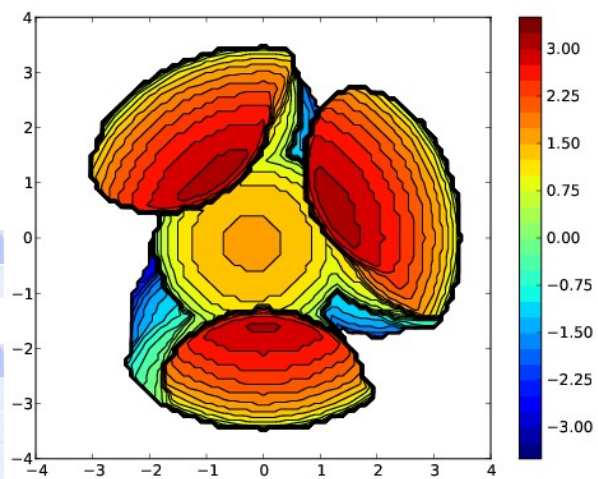


[Ni(II)-F]⁺¹



%V Free	%V Buried	% V Tot/V Ex
30.5	69.5	99.9

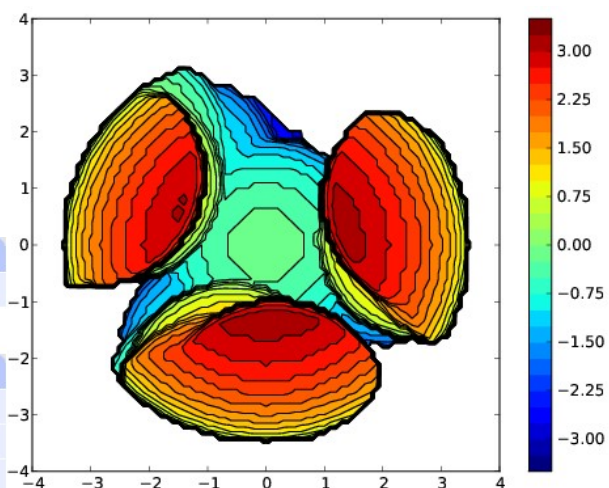
Quadrant	V f	V b	V t	%V f	%V b
SW	19.2	25.7	44.9	42.8	57.2
NW	10.7	34.2	44.9	23.8	76.2
NE	12.2	32.7	44.9	27.1	72.9
SE	12.8	32.1	44.9	28.4	71.6



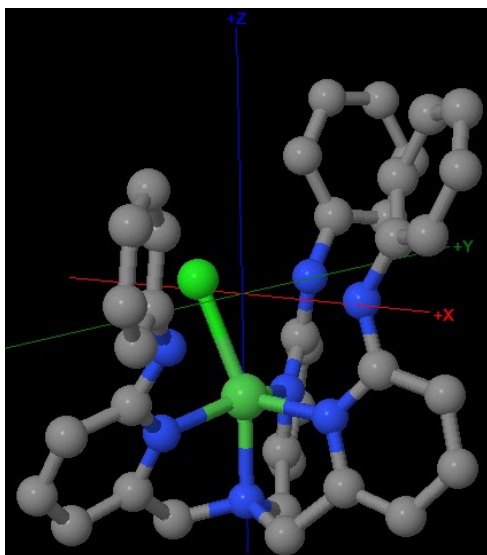
Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
36.3	63.7	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	14.3	30.6	44.9	31.8	68.2
NW	15.1	29.8	44.9	33.6	66.4
NE	21.3	23.5	44.9	47.6	52.4
SE	14.4	30.5	44.9	32.0	68.0

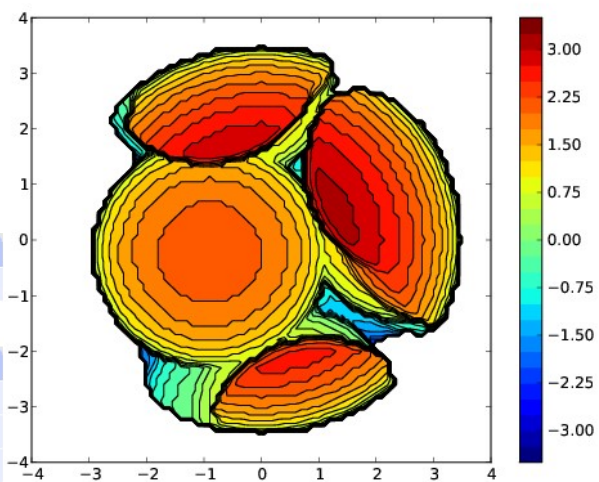


[Ni(II)-Cl]⁺¹



%V Free	%V Buried	% V Tot/V Ex
27.1	72.9	99.9

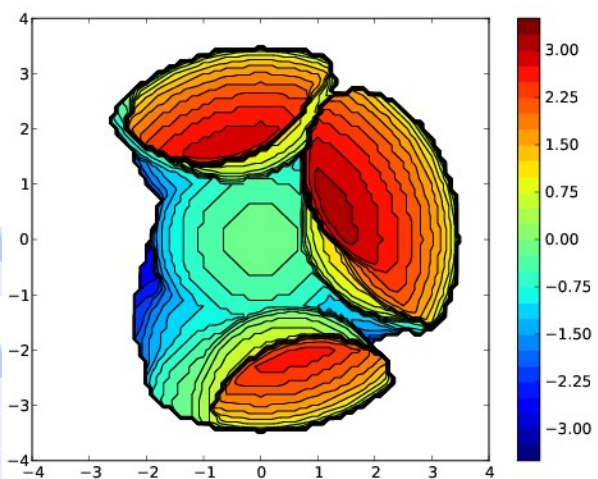
Quadrant	V f	V b	V t	%V f	%V b
SW	15.8	29.1	44.9	35.2	64.8
NW	12.4	32.4	44.9	27.7	72.3
NE	9.2	35.6	44.9	20.6	79.4
SE	11.2	33.7	44.9	24.9	75.1



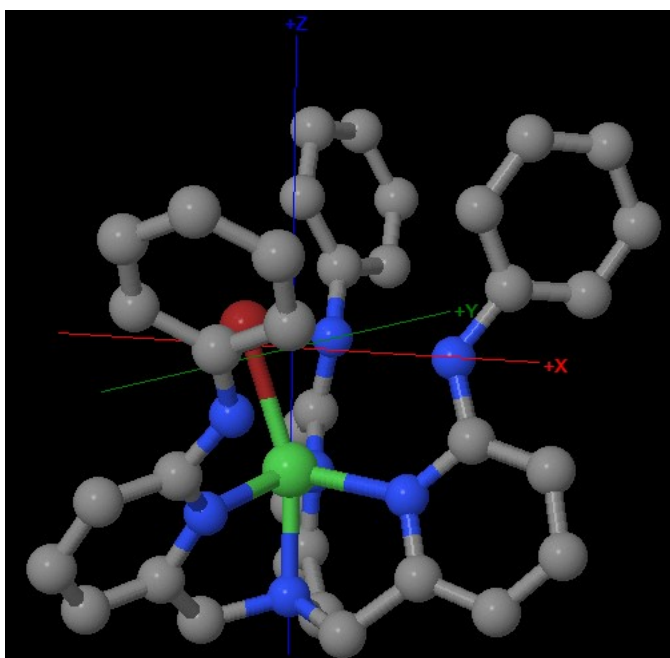
Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
41.9	58.1	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	29.2	15.7	44.9	65.0	35.0
NW	21.3	23.6	44.9	47.5	52.5
NE	10.9	33.9	44.9	24.4	75.6
SE	13.8	31.1	44.9	30.7	69.3

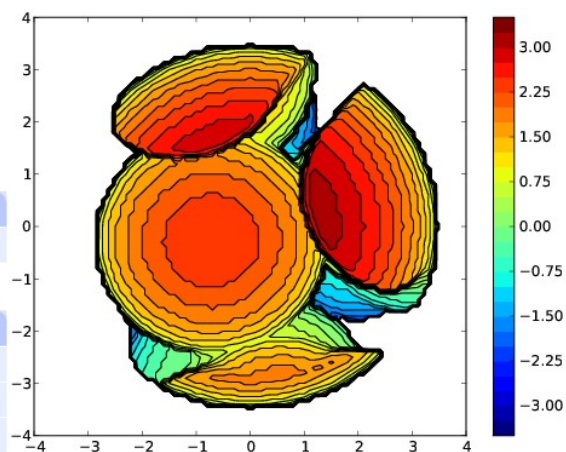


[Ni(II)-Br]⁺¹



%V Free	%V Buried	% V Tot/V Ex
27.3	72.7	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	14.2	30.7	44.9	31.6	68.4
NW	11.8	33.1	44.9	26.2	73.8
NE	9.6	35.2	44.9	21.4	78.6
SE	13.4	31.5	44.9	29.8	70.2



Not including the halide:

%V Free	%V Buried	% V Tot/V Ex
44.5	55.5	99.9

Quadrant	V f	V b	V t	%V f	%V b
SW	28.7	16.2	44.9	64.0	36.0
NW	21.1	23.8	44.9	46.9	53.1
NE	12.3	32.6	44.9	27.3	72.7
SE	17.8	27.1	44.9	39.7	60.3

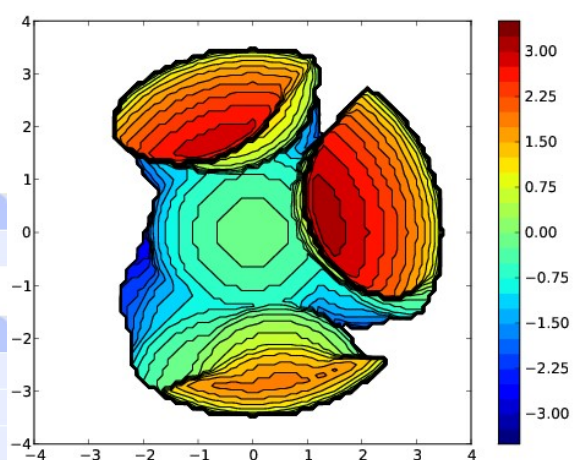


Table S5. Xyz coordinates and absolute energies (in a.u.) of all computed DFT species.

[Ni(II)-F] ⁺¹	SCF Done: -3383.06833357 A.U.		
Ni	0.080822	-1.342830	0.011692
F	0.125467	0.436618	-0.800071
N	0.012181	-3.293627	0.659683
N	2.169276	-1.736547	-0.117805
N	2.816272	0.300525	-1.002629
H	1.810358	0.502425	-0.965718
N	-1.654962	-1.953165	-0.993594
N	-2.542788	0.147199	-1.345754
H	-1.591751	0.455353	-1.118337
N	-0.469170	-0.933675	1.943421
N	-0.151427	1.348736	1.780830
H	0.037625	1.130787	0.795540
C	1.375654	-3.728224	1.034516
H	1.480300	-4.815568	0.950002
H	1.524276	-3.470356	2.088928
C	2.442165	-3.018096	0.234107
C	3.654933	-3.632279	-0.027043
H	3.821668	-4.662679	0.266857

C	4.643871	-2.883479	-0.678614
H	5.599177	-3.337055	-0.927108
C	4.403410	-1.566395	-1.016562
H	5.151663	-0.983777	-1.536868
C	3.146894	-0.993179	-0.709018
C	3.637648	1.341560	-1.480888
C	4.959042	1.540792	-1.046673
H	5.402201	0.872520	-0.316455
C	5.696837	2.622280	-1.530755
H	6.718898	2.760000	-1.187593
C	5.130144	3.531857	-2.426610
H	5.709656	4.373645	-2.794879
C	3.805643	3.351854	-2.835350
H	3.346017	4.054794	-3.525149
C	3.065039	2.265418	-2.372845
H	2.038472	2.120369	-2.699283
C	-0.527485	-4.047060	-0.495755
H	-0.823452	-5.062860	-0.207575
H	0.277577	-4.133855	-1.234546
C	-1.696184	-3.303509	-1.106813
C	-2.725072	-3.970872	-1.749160
H	-2.728897	-5.054001	-1.800911
C	-3.742978	-3.201832	-2.329442
H	-4.552778	-3.685573	-2.868150
C	-3.722206	-1.823992	-2.221343
H	-4.493651	-1.220746	-2.681097
C	-2.661197	-1.206184	-1.520901
C	-3.462533	1.166186	-1.665036
C	-4.845682	1.043011	-1.453377
H	-5.255997	0.129476	-1.036541
C	-5.694277	2.110907	-1.749856
H	-6.762289	1.999181	-1.581957
C	-5.183889	3.317106	-2.235301
H	-5.850242	4.145315	-2.459078
C	-3.804680	3.449202	-2.420404
H	-3.389665	4.383119	-2.790187
C	-2.949586	2.383959	-2.143995
H	-1.878119	2.484441	-2.297456
C	-0.903652	-3.314332	1.827548
H	-0.746783	-4.210914	2.436795
H	-1.930884	-3.350270	1.451245
C	-0.739311	-2.057302	2.652591
C	-0.908078	-2.050228	4.025679
H	-1.118003	-2.971261	4.557933
C	-0.782817	-0.823852	4.694594
H	-0.876283	-0.780877	5.775991
C	-0.528248	0.334715	3.986521
H	-0.408116	1.280404	4.498077
C	-0.393290	0.266228	2.579420
C	-0.195200	2.722019	2.111178
C	-1.143679	3.270683	2.989512
H	-1.885312	2.635213	3.461195

	C	-1.154435	4.644929	3.234651
	H	-1.893096	5.053988	3.918984
	C	-0.246003	5.491900	2.595815
	H	-0.263414	6.560918	2.788228
	C	0.680001	4.949778	1.700199
	H	1.389451	5.595465	1.189362
	C	0.711461	3.576657	1.462465
	H	1.439927	3.154583	0.775651
[Ni(II)-Cl]⁺¹	SCF Done: -3743.41471899 A.U.			
	Ni	0.074784	-1.389732	0.129277
	Cl	-0.173942	0.188524	1.948235
	N	0.358041	-3.202384	-0.776311
	N	-2.021183	-1.977031	0.032544
	N	-3.098605	-0.048286	0.780327
	H	-2.172281	0.292809	1.030701
	N	2.059613	-1.851152	0.766686
	N	2.915717	0.291142	0.979256
	H	1.941054	0.579244	0.963438
	N	0.461406	-0.639172	-1.722540
	N	-0.101882	1.553374	-1.240137
	H	-0.323693	1.184697	-0.319465
	C	-0.934234	-3.809840	-1.156981
	H	-0.882115	-4.902167	-1.099257
	H	-1.127384	-3.554482	-2.204677
	C	-2.094906	-3.277720	-0.355059
	C	-3.219528	-4.067690	-0.180893
	H	-3.210623	-5.103427	-0.501806
	C	-4.352991	-3.485895	0.396412
	H	-5.245202	-4.077491	0.580372
	C	-4.333165	-2.146406	0.728997
	H	-5.197789	-1.672040	1.174342
	C	-3.156252	-1.394552	0.513686
	C	-4.168545	0.813471	1.109571
	C	-5.388441	0.793123	0.413031
	H	-5.545352	0.081754	-0.391007
	C	-6.393382	1.703902	0.739935
	H	-7.332936	1.673019	0.194554
	C	-6.194089	2.660149	1.739229
	H	-6.979233	3.369846	1.983871
	C	-4.971579	2.697533	2.414426
	H	-4.798440	3.437583	3.191211
	C	-3.966817	1.779058	2.110157
	H	-3.023179	1.801550	2.648208
	C	1.056798	-3.997550	0.262573
	H	1.413986	-4.951715	-0.142745
	H	0.324824	-4.222414	1.047163
	C	2.208672	-3.197128	0.824473
	C	3.344211	-3.812551	1.323919
	H	3.422062	-4.894069	1.333573
	C	4.375489	-2.995044	1.801607
	H	5.269387	-3.436040	2.233160
	C	4.264561	-1.619994	1.710854

	H	5.054589	-0.975029	2.072208
	C	3.093424	-1.059827	1.155577
	C	3.848873	1.335052	1.159982
	C	5.180911	1.241618	0.724857
	H	5.537509	0.337312	0.243421
	C	6.044281	2.325992	0.887801
	H	7.073347	2.237493	0.549623
	C	5.594052	3.519633	1.456954
	H	6.270831	4.361021	1.575273
	C	4.261053	3.621415	1.863988
	H	3.891586	4.544933	2.301854
	C	3.394313	2.538750	1.723502
	H	2.361312	2.617989	2.051125
	C	1.202939	-2.941927	-1.971412
	H	1.108971	-3.752378	-2.701172
	H	2.249485	-2.910455	-1.655817
	C	0.853678	-1.607349	-2.590989
	C	0.998925	-1.377858	-3.947776
	H	1.308804	-2.180126	-4.607898
	C	0.726941	-0.090818	-4.431041
	H	0.802175	0.121295	-5.493604
	C	0.352283	0.913563	-3.559781
	H	0.123132	1.906560	-3.922753
	C	0.240545	0.620487	-2.182111
	C	-0.246902	2.954711	-1.379494
	C	0.640595	3.734828	-2.136589
	H	1.471603	3.270456	-2.656544
	C	0.469633	5.118894	-2.197657
	H	1.161889	5.711818	-2.789471
	C	-0.561157	5.742685	-1.490954
	H	-0.683762	6.821048	-1.537732
	C	-1.427772	4.966951	-0.716219
	H	-2.230836	5.437962	-0.155732
	C	-1.279245	3.581780	-0.664542
	H	-1.961425	2.976930	-0.073143
[Ni(II)-Br]⁺¹	SCF Done: -5854.93685592 A.U.			
	Ni	-0.459815	-1.238543	0.057221
	Br	-0.160326	0.538561	-1.604654
	N	-0.956885	-3.024503	0.929778
	N	-2.535630	-1.426603	-0.453460
	N	-3.218058	0.781102	-0.398793
	H	-2.502139	0.872910	0.310821
	N	-0.497191	-0.570704	1.992321
	N	0.619948	1.420028	1.605754
	H	0.355056	1.264473	0.633647
	N	1.522715	-2.212959	-0.090038
	N	2.843761	-0.524821	-0.992956
	H	1.967676	-0.009137	-1.079950
	C	-1.797544	-3.710241	-0.077652
	H	-2.307901	-4.578174	0.358069
	H	-1.131752	-4.081888	-0.865232
	C	-2.806565	-2.739632	-0.652417

C	-3.939474	-3.182336	-1.314315
H	-4.113288	-4.243619	-1.455335
C	-4.852190	-2.220911	-1.765328
H	-5.756559	-2.526674	-2.283495
C	-4.635043	-0.880263	-1.502856
H	-5.371835	-0.136204	-1.774949
C	-3.465028	-0.501569	-0.809559
C	-3.814053	1.988214	-0.816672
C	-4.243133	2.208084	-2.134956
H	-4.125193	1.433832	-2.885438
C	-4.795669	3.439812	-2.489558
H	-5.124608	3.595663	-3.513650
C	-4.906441	4.470393	-1.553258
H	-5.332120	5.428106	-1.838894
C	-4.453826	4.259005	-0.247729
H	-4.525083	5.052767	0.491218
C	-3.917404	3.027218	0.122844
H	-3.574926	2.859304	1.140987
C	-1.707239	-2.673860	2.163372
H	-1.739978	-3.524277	2.852869
H	-2.737592	-2.435589	1.887736
C	-1.084718	-1.467094	2.827042
C	-1.145439	-1.283131	4.197325
H	-1.606332	-2.034248	4.828941
C	-0.610127	-0.102780	4.728628
H	-0.666107	0.091718	5.795711
C	-0.013944	0.824387	3.895514
H	0.381433	1.750680	4.290019
C	0.051484	0.561608	2.509545
C	1.418921	2.561923	1.832180
C	2.368931	2.637974	2.862945
H	2.512559	1.802765	3.539734
C	3.155513	3.782952	2.999479
H	3.885517	3.829100	3.803329
C	3.028631	4.849255	2.106330
H	3.648825	5.734264	2.216270
C	2.101128	4.761137	1.064667
H	1.994281	5.578070	0.355996
C	1.296222	3.631465	0.929623
H	0.567433	3.570991	0.125655
C	0.258918	-3.795933	1.257863
H	0.041987	-4.868569	1.300101
H	0.583287	-3.489667	2.258742
C	1.397337	-3.504378	0.315517
C	2.315868	-4.496122	0.016384
H	2.152386	-5.511100	0.361314
C	3.450066	-4.144455	-0.724758
H	4.177663	-4.898168	-1.011604
C	3.643134	-2.827003	-1.086056
H	4.514449	-2.529074	-1.654177
C	2.675475	-1.860382	-0.727452
C	3.958386	0.111167	-1.585219

	C 5.273882 -0.123332 -1.154362 H 5.466484 -0.831251 -0.354810 C 6.332331 0.573179 -1.739173 H 7.346347 0.378771 -1.399769 C 6.096878 1.525617 -2.734069 H 6.925194 2.068022 -3.181066 C 4.784507 1.779622 -3.141591 H 4.584218 2.522966 -3.908710 C 3.721106 1.075978 -2.577838 H 2.700922 1.268641 -2.898238
Ni(II)-F₂	SCF Done: -3483.05994152 A.U. C 3.207533 -2.915004 -0.506152 H 3.082329 -3.147635 -1.565931 H 3.893278 -3.649635 -0.066016 C 3.780104 -1.518090 -0.402643 C 5.141525 -1.294177 -0.249504 H 5.825855 -2.126200 -0.123447 C 5.594178 0.030622 -0.287771 H 6.654946 0.249005 -0.199206 C 4.694873 1.069397 -0.452878 H 5.039293 2.092730 -0.519664 C 3.318413 0.766206 -0.566662 C 2.430999 3.104892 -0.774481 C 1.628334 3.808131 -1.691451 H 1.003329 3.249551 -2.383428 C 1.641253 5.201844 -1.719037 H 1.015163 5.725902 -2.436534 C 2.460912 5.920488 -0.843792 H 2.478018 7.006341 -0.872625 C 3.250656 5.225200 0.074889 H 3.878133 5.769776 0.775803 C 3.231458 3.830210 0.124460 H 3.815738 3.311519 0.876903 C 1.955052 -2.891897 1.590469 H 2.989808 -2.653071 1.859268 H 1.741875 -3.868525 2.039919 C 1.069804 -1.841790 2.231755 C 0.928461 -1.857805 3.616554 H 1.382293 -2.650363 4.202535 C 0.227521 -0.811598 4.218501 H 0.131066 -0.763899 5.299840 C -0.340086 0.177021 3.433683 H -0.860644 1.010605 3.885629 C -0.212565 0.092698 2.029923 C -1.704926 2.018115 1.423141 C -2.737984 1.904718 2.370579 H -2.842704 1.002541 2.962549 C -3.659545 2.941055 2.530889 H -4.449267 2.834275 3.270304 C -3.589412 4.091891 1.742893 H -4.312552 4.892369 1.871701

	C	-2.581187	4.194916	0.780082
	H	-2.514041	5.078914	0.150997
	C	-1.646336	3.173758	0.622714
	H	-0.857574	3.264090	-0.118907
	C	1.081006	-4.138700	-0.351494
	H	1.322058	-5.041563	0.222882
	H	1.364869	-4.325992	-1.391173
	C	-0.412129	-3.883489	-0.334720
	C	-1.314402	-4.924034	-0.151651
	H	-0.963483	-5.920239	0.095640
	C	-2.674165	-4.648808	-0.334525
	H	-3.411033	-5.441302	-0.235426
	C	-3.089012	-3.368572	-0.659735
	H	-4.133602	-3.159420	-0.844723
	C	-2.117723	-2.348420	-0.777230
	C	-3.630715	-0.388593	-1.248421
	C	-4.781539	-0.694165	-0.501138
	H	-4.756806	-1.470917	0.254265
	C	-5.957475	0.032501	-0.699242
	H	-6.837542	-0.220638	-0.113446
	C	-6.006117	1.084198	-1.616163
	H	-6.924620	1.645723	-1.761810
	C	-4.852944	1.411558	-2.336240
	H	-4.867073	2.233832	-3.047090
	C	-3.678746	0.683927	-2.159049
	H	-2.785214	0.934660	-2.725017
	N	1.864339	-2.974859	0.114566
	N	2.885093	-0.516591	-0.536469
	N	2.332784	1.701667	-0.760612
	H	1.434230	1.308118	-1.067399
	N	0.515368	-0.900330	1.444767
	N	-0.763036	1.003556	1.167215
	H	-0.473878	0.890417	0.184595
	N	-0.799665	-2.623329	-0.616509
	N	-2.395800	-1.042096	-1.093391
	H	-1.567261	-0.473647	-1.305498
	Ni	0.891999	-1.302703	-0.693760
	F	1.264752	-1.843744	-2.488030
	F	-0.028638	0.390747	-1.350468
Ni(II)-Cl₂	SCF Done: -4203.78463763 A.U.			
	C	2.615340	-3.441318	-0.062580
	H	2.456769	-3.843052	-1.065839
	H	3.118941	-4.203316	0.544475
	C	3.461769	-2.197421	-0.156539
	C	4.838389	-2.267873	-0.000349
	H	5.313940	-3.218190	0.216691
	C	5.579121	-1.089300	-0.136082
	H	6.662235	-1.105806	-0.053275
	C	4.924368	0.103267	-0.376334
	H	5.477005	1.025655	-0.499216
	C	3.515295	0.106474	-0.483688
	C	3.256337	2.591788	-0.623907

C	2.789374	3.510539	-1.579544
H	2.140618	3.163829	-2.379174
C	3.161171	4.853219	-1.506746
H	2.789184	5.549335	-2.253975
C	4.014754	5.298753	-0.494225
H	4.310811	6.342792	-0.444502
C	4.478345	4.386841	0.457790
H	5.130527	4.721279	1.260468
C	4.096284	3.045942	0.407079
H	4.434531	2.358485	1.175588
C	1.410768	-2.767866	1.939072
H	2.467680	-2.577638	2.151856
H	1.123908	-3.628220	2.553053
C	0.643783	-1.545021	2.383194
C	0.410881	-1.387628	3.743517
H	0.685303	-2.176505	4.435588
C	-0.135970	-0.181528	4.186787
H	-0.292576	-0.001951	5.246793
C	-0.465749	0.793206	3.266176
H	-0.862657	1.747250	3.586108
C	-0.269915	0.537942	1.890021
C	-1.382242	2.631048	1.072156
C	-2.529220	2.703937	1.880136
H	-2.855650	1.836190	2.443062
C	-3.267699	3.886536	1.940757
H	-4.151193	3.926840	2.572541
C	-2.895376	5.000500	1.184402
H	-3.477977	5.916210	1.232002
C	-1.769235	4.921096	0.361011
H	-1.468346	5.776823	-0.237724
C	-1.012556	3.750979	0.309081
H	-0.126883	3.698845	-0.317648
C	0.306997	-4.184593	0.253671
H	0.430081	-4.999466	0.976258
H	0.510170	-4.581531	-0.745052
C	-1.112522	-3.676246	0.260547
C	-2.146224	-4.499141	0.683978
H	-1.929076	-5.476829	1.100243
C	-3.458678	-4.040776	0.528529
H	-4.298657	-4.665747	0.818775
C	-3.687134	-2.790610	-0.012757
H	-4.695141	-2.431210	-0.171473
C	-2.582840	-1.987972	-0.381426
C	-3.912699	0.017223	-1.080486
C	-4.871663	0.139258	-0.061261
H	-4.724346	-0.368093	0.886546
C	-6.004123	0.930519	-0.258602
H	-6.739365	1.011519	0.537844
C	-6.186125	1.629987	-1.454306
H	-7.067061	2.248941	-1.599644
C	-5.219857	1.529548	-2.458848
H	-5.344346	2.070833	-3.393114

	C	-4.095001	0.725000	-2.279873
	H	-3.352386	0.636000	-3.068111
	N	1.285621	-3.103219	0.498050
	N	2.795023	-1.042274	-0.399352
	N	2.798586	1.259806	-0.691741
	H	1.884605	1.124750	-1.126334
	N	0.305745	-0.620340	1.454288
	N	-0.616335	1.451110	0.931671
	H	-0.296053	1.249756	-0.016489
	N	-1.307231	-2.434697	-0.243913
	N	-2.729001	-0.735707	-0.920386
	H	-1.899570	-0.358246	-1.380243
	Ni	0.625100	-1.452628	-0.555796
	Cl	0.858163	-2.685111	-2.741825
	Cl	-0.009550	0.582959	-2.073834
Ni(II)-Br₂	SCF Done: -8426.82811228 A.U.			
	C	2.831135	-3.101374	0.471939
	H	2.710788	-3.619910	-0.482092
	H	3.358039	-3.766512	1.168028
	C	3.630938	-1.842465	0.245184
	C	5.019464	-1.879703	0.287950
	H	5.533673	-2.808439	0.511647
	C	5.717766	-0.697996	0.028645
	H	6.804163	-0.691102	0.012580
	C	5.017536	0.473734	-0.198547
	H	5.537956	1.399667	-0.404978
	C	3.607199	0.443514	-0.173009
	C	3.220491	2.919858	-0.390324
	C	2.500565	3.765288	-1.255037
	H	1.708342	3.342189	-1.866952
	C	2.794784	5.126075	-1.317855
	H	2.227065	5.761616	-1.992592
	C	3.815906	5.668702	-0.532378
	H	4.050588	6.727851	-0.589193
	C	4.524163	4.832936	0.334509
	H	5.307919	5.242489	0.966675
	C	4.227839	3.471615	0.419574
	H	4.760896	2.848416	1.129441
	C	1.574380	-2.275380	2.369649
	H	2.563759	-1.824195	2.493215
	H	1.520427	-3.113235	3.073836
	C	0.565329	-1.218774	2.741467
	C	0.182875	-1.115947	4.072312
	H	0.514789	-1.855749	4.792594
	C	-0.593747	-0.018328	4.454219
	H	-0.881613	0.121360	5.492580
	C	-0.982384	0.899757	3.500656
	H	-1.557186	1.774360	3.774617
	C	-0.611882	0.694830	2.149756
	C	-1.936243	2.620020	1.239684
	C	-3.165250	2.505230	1.909830
	H	-3.423425	1.582381	2.418231

	C	-4.066805	3.570491	1.904512
	H	-5.012439	3.466878	2.430280
	C	-3.773935	4.749334	1.214195
	H	-4.483285	5.572259	1.208416
	C	-2.562083	4.856116	0.526837
	H	-2.320975	5.765099	-0.018061
	C	-1.645583	3.805048	0.543956
	H	-0.694511	3.898291	0.027136
	C	0.573937	-3.935086	0.857966
	H	0.728579	-4.638165	1.685018
	H	0.830627	-4.450551	-0.072434
	C	-0.879924	-3.547784	0.754548
	C	-1.857806	-4.423325	1.209305
	H	-1.576968	-5.323305	1.745703
	C	-3.192534	-4.127114	0.919524
	H	-3.986739	-4.801992	1.226507
	C	-3.500647	-2.975811	0.219434
	H	-4.523193	-2.752110	-0.052579
	C	-2.456015	-2.104020	-0.163508
	C	-3.887313	-0.299956	-1.182401
	C	-4.995816	-0.248561	-0.320172
	H	-4.952766	-0.719207	0.655773
	C	-6.148540	0.438875	-0.704300
	H	-6.997571	0.465292	-0.026118
	C	-6.210899	1.103373	-1.931087
	H	-7.110112	1.639732	-2.220716
	C	-5.097601	1.079069	-2.776166
	H	-5.124136	1.598507	-3.730543
	C	-3.948201	0.380720	-2.411586
	H	-3.086626	0.356885	-3.073189
	N	1.477114	-2.770884	0.975096
	N	2.923557	-0.717500	-0.001089
	N	2.830946	1.570523	-0.320341
	H	1.901358	1.372296	-0.692515
	N	0.173542	-0.354424	1.775567
	N	-0.997917	1.564451	1.166391
	H	-0.602313	1.400862	0.237741
	N	-1.156823	-2.393415	0.108438
	N	-2.676623	-0.938795	-0.852352
	H	-1.840438	-0.513902	-1.254152
	Ni	0.722837	-1.275819	-0.255817
	Br	1.094229	-2.610151	-2.346643
	Br	0.051850	0.695505	-1.810176
[Ni(II)-F(CH₃CN)]⁺¹	SCF Done:	-3515.83985981 A.U.		
	C	1.729164	-3.857253	0.291804
	H	1.686737	-4.181151	-0.752650
	H	1.994712	-4.730133	0.899127
	C	2.777825	-2.774053	0.421001
	C	4.062844	-3.056168	0.855441
	H	4.330142	-4.060871	1.163758
	C	4.986323	-2.002295	0.896119
	H	5.993851	-2.171226	1.265736

C	4.616284	-0.740130	0.473380
H	5.314207	0.085455	0.519354
C	3.296305	-0.531516	0.006478
C	3.572208	1.818825	-0.832469
C	2.946922	3.067728	-0.675235
H	1.955641	3.112425	-0.233069
C	3.590296	4.236928	-1.076779
H	3.087680	5.191790	-0.946322
C	4.872528	4.185754	-1.630776
H	5.377937	5.098173	-1.934466
C	5.493102	2.945619	-1.796151
H	6.482391	2.886267	-2.242524
C	4.850299	1.766643	-1.414081
H	5.336094	0.813294	-1.590111
C	0.289810	-3.170265	2.132877
H	1.306762	-3.163601	2.539920
H	-0.220104	-4.033578	2.572849
C	-0.364942	-1.883885	2.576711
C	-0.984189	-1.816103	3.816630
H	-1.093562	-2.708151	4.423780
C	-1.451525	-0.570674	4.250259
H	-1.966822	-0.478107	5.202233
C	-1.263503	0.547949	3.460757
H	-1.636529	1.514336	3.772603
C	-0.615281	0.407489	2.212167
C	-0.520880	2.835361	1.593782
C	-0.903526	3.653097	0.514540
H	-1.139027	3.193155	-0.441154
C	-0.987726	5.035758	0.669315
H	-1.287270	5.647899	-0.177447
C	-0.702858	5.630628	1.901727
H	-0.777935	6.707424	2.024009
C	-0.310712	4.822796	2.971627
H	-0.065397	5.270908	3.931081
C	-0.206115	3.438776	2.824016
H	0.144063	2.836366	3.654940
C	-0.712868	-4.136044	0.098857
H	-0.915203	-5.016500	0.719386
H	-0.393767	-4.496699	-0.884545
C	-1.972657	-3.322441	-0.097524
C	-3.223718	-3.915905	-0.023407
H	-3.322388	-4.953651	0.275716
C	-4.336741	-3.142309	-0.375973
H	-5.332260	-3.577053	-0.360063
C	-4.172827	-1.824657	-0.761193
H	-5.022129	-1.228206	-1.066597
C	-2.871367	-1.271031	-0.769579
C	-3.485157	1.068661	-1.438430
C	-3.133182	1.948441	-2.476975
H	-2.223451	1.763602	-3.042560
C	-3.945590	3.039343	-2.783808
H	-3.657475	3.707986	-3.590747

	C	-5.127040	3.264235	-2.071660
	H	-5.764391	4.108867	-2.317649
	C	-5.474509	2.395914	-1.034126
	H	-6.380389	2.569368	-0.459054
	C	-4.658362	1.312095	-0.705514
	H	-4.921725	0.675647	0.132449
	C	0.689456	-2.346016	-3.344569
	C	0.860197	-2.602255	-4.764465
	H	0.478276	-1.752973	-5.339581
	H	0.309187	-3.505276	-5.045408
	H	1.922275	-2.742047	-4.988894
	N	0.393948	-3.325405	0.657353
	N	2.385941	-1.537642	0.031263
	N	2.838402	0.671750	-0.458645
	H	1.833136	0.699809	-0.661464
	N	-0.202758	-0.812212	1.770157
	N	-0.395987	1.454447	1.355879
	H	-0.183675	1.172527	0.390071
	N	-1.792717	-2.027483	-0.441920
	N	-2.592854	0.018577	-1.136919
	H	-1.596199	0.226046	-1.259993
	N	0.553560	-2.148026	-2.212628
	F	0.152082	0.369747	-1.054503
	Ni	0.264835	-1.450790	-0.249379
[Ni(II)-Cl(CH₃CN)]⁺¹	SCF Done: -3876.18776719 A.U.			
	C	1.458968	-3.914654	0.539291
	H	1.411782	-4.322275	-0.474350
	H	1.629991	-4.751798	1.225202
	C	2.589227	-2.919855	0.618836
	C	3.824772	-3.298201	1.117005
	H	3.976026	-4.303958	1.492795
	C	4.849918	-2.343913	1.132342
	H	5.825549	-2.590192	1.541678
	C	4.610396	-1.078083	0.639767
	H	5.379677	-0.317343	0.666267
	C	3.329111	-0.766103	0.123936
	C	3.923035	1.502035	-0.765071
	C	3.519759	2.830073	-0.556545
	H	2.573106	3.026103	-0.061050
	C	4.328746	3.885243	-0.977002
	H	4.001200	4.907884	-0.809394
	C	5.555651	3.632575	-1.596342
	H	6.189649	4.455448	-1.914513
	C	5.956050	2.311041	-1.808410
	H	6.899565	2.100012	-2.304974
	C	5.144032	1.248155	-1.409759
	H	5.449577	0.227855	-1.616676
	C	0.056966	-2.925654	2.271382
	H	1.052660	-3.023189	2.716512
	H	-0.580554	-3.660630	2.772363
	C	-0.425938	-1.527033	2.576145
	C	-0.937675	-1.271805	3.839852

H	-1.078098	-2.085431	4.543233
C	-1.250286	0.048661	4.174452
H	-1.674466	0.286522	5.145850
C	-1.023335	1.054259	3.256709
H	-1.271048	2.082185	3.486139
C	-0.496786	0.726787	1.986748
C	-0.264272	3.091038	1.209501
C	-0.853619	3.886983	0.214105
H	-1.339480	3.411449	-0.632932
C	-0.821582	5.277820	0.316296
H	-1.281961	5.879294	-0.463114
C	-0.217806	5.894273	1.415093
H	-0.203168	6.977429	1.497496
C	0.373536	5.103535	2.403921
H	0.861042	5.569607	3.256170
C	0.366171	3.712094	2.300787
H	0.859562	3.109879	3.057030
C	-0.974577	-4.059544	0.347270
H	-1.171208	-4.894712	1.028585
H	-0.697464	-4.485086	-0.621814
C	-2.212394	-3.219993	0.165229
C	-3.464722	-3.760514	0.411088
H	-3.556488	-4.768187	0.801148
C	-4.588048	-2.977844	0.121485
H	-5.588832	-3.373525	0.269629
C	-4.420167	-1.697528	-0.366572
H	-5.274908	-1.085206	-0.621609
C	-3.111134	-1.195141	-0.553328
C	-3.793791	1.118010	-1.237010
C	-3.638802	1.914748	-2.384065
H	-2.858258	1.671710	-3.099724
C	-4.483072	3.002615	-2.606046
H	-4.347480	3.607866	-3.498528
C	-5.502985	3.303780	-1.699699
H	-6.166473	4.145083	-1.878956
C	-5.655360	2.515386	-0.556334
H	-6.433553	2.747497	0.166026
C	-4.802542	1.437827	-0.313143
H	-4.909948	0.861542	0.599826
C	0.518314	-2.959942	-3.106418
C	0.674070	-3.494703	-4.447451
H	0.177744	-2.834568	-5.165811
H	0.226255	-4.491793	-4.502447
H	1.738283	-3.561536	-4.694427
N	0.167287	-3.246181	0.823820
N	2.320188	-1.678065	0.139910
N	3.032981	0.471285	-0.376467
H	2.060047	0.613785	-0.640161
N	-0.227413	-0.564964	1.641745
N	-0.257232	1.686743	1.038976
H	-0.165250	1.357499	0.077752
N	-2.017178	-1.960271	-0.296889

	N	-2.871720	0.069510	-1.024977
	H	-1.934091	0.226580	-1.396023
	N	0.395034	-2.534587	-2.038001
	Cl	0.188873	0.518111	-1.915087
	Ni	0.156342	-1.490948	-0.269136
[Ni(II)-Br(CH₃CN)]⁺¹	SCF Done: -5987.71133132 A.U.			
	C	1.438403	-3.930044	0.647059
	H	1.428623	-4.337744	-0.367407
	H	1.573689	-4.766870	1.341334
	C	2.569131	-2.941859	0.778582
	C	3.762217	-3.317434	1.372790
	H	3.879993	-4.319062	1.770960
	C	4.783398	-2.363213	1.463238
	H	5.722355	-2.605119	1.953015
	C	4.584368	-1.102723	0.940910
	H	5.350116	-0.342060	1.019191
	C	3.351077	-0.797929	0.314271
	C	4.035741	1.454370	-0.547641
	C	3.632663	2.786825	-0.372822
	H	2.655485	2.994961	0.053736
	C	4.480530	3.832060	-0.738794
	H	4.152798	4.858851	-0.599859
	C	5.746336	3.563123	-1.265782
	H	6.410236	4.377949	-1.540728
	C	6.148436	2.236712	-1.441395
	H	7.124299	2.013863	-1.864787
	C	5.298176	1.184394	-1.098256
	H	5.607734	0.159516	-1.274553
	C	-0.006667	-2.908868	2.319184
	H	0.988481	-2.935306	2.775472
	H	-0.607062	-3.669277	2.828250
	C	-0.568208	-1.533226	2.583777
	C	-1.235856	-1.306992	3.778086
	H	-1.439740	-2.132521	4.451117
	C	-1.628370	0.000123	4.079831
	H	-2.185411	0.214280	4.987529
	C	-1.306364	1.023633	3.211185
	H	-1.613824	2.040243	3.415173
	C	-0.605503	0.725996	2.020842
	C	-0.286875	3.102832	1.259500
	C	-0.549784	3.854165	0.099577
	H	-0.737562	3.334293	-0.835638
	C	-0.552507	5.246768	0.147309
	H	-0.758443	5.808918	-0.759798
	C	-0.302500	5.915893	1.348697
	H	-0.314898	7.001465	1.386738
	C	-0.023611	5.171598	2.497184
	H	0.195377	5.677115	3.434150
	C	-0.000463	3.776476	2.459140
	H	0.260744	3.220153	3.352398
	C	-0.986840	-4.071314	0.387777
	H	-1.183426	-4.909108	1.066046

	H	-0.694772	-4.491853	-0.578879
	C	-2.230151	-3.242511	0.195149
	C	-3.479596	-3.795009	0.432661
	H	-3.564407	-4.805354	0.817340
	C	-4.608065	-3.020383	0.143426
	H	-5.606178	-3.425829	0.282838
	C	-4.448331	-1.733099	-0.329915
	H	-5.306647	-1.124929	-0.583072
	C	-3.142747	-1.219295	-0.505000
	C	-3.811829	1.123907	-1.130335
	C	-3.596220	1.987746	-2.218336
	H	-2.782943	1.781154	-2.908827
	C	-4.415806	3.099040	-2.409636
	H	-4.232356	3.755876	-3.255860
	C	-5.470422	3.360938	-1.530848
	H	-6.114492	4.221771	-1.686357
	C	-5.681255	2.507681	-0.444996
	H	-6.485790	2.708536	0.257633
	C	-4.854917	1.403182	-0.231918
	H	-5.007992	0.777323	0.640670
	C	0.560901	-3.104203	-3.015743
	C	0.722062	-3.702620	-4.328957
	H	0.047411	-3.215330	-5.039981
	H	0.486260	-4.770367	-4.280168
	H	1.755451	-3.575410	-4.666489
	N	0.142385	-3.249906	0.880042
	N	2.338394	-1.705372	0.265787
	N	3.103182	0.435501	-0.221408
	H	2.182573	0.548693	-0.643405
	N	-0.284749	-0.556620	1.687243
	N	-0.239376	1.700067	1.127203
	H	-0.051780	1.370285	0.180340
	N	-2.042010	-1.979957	-0.259765
	N	-2.909234	0.055247	-0.952685
	H	-1.968212	0.218124	-1.309527
	N	0.432697	-2.627540	-1.969676
	Br	0.238004	0.472873	-1.890602
	Ni	0.171136	-1.511006	-0.241555
Ni(I)-F	SCF Done: -3383.15387357 A.U.			
	Ni	-1.251331	0.340639	0.179839
	F	0.641219	-0.309544	-0.381123
	N	-3.147163	0.992783	0.695438
	N	-2.226670	-1.475140	-0.074387
	N	-0.481736	-2.627383	-1.038679
	H	0.009920	-1.738716	-0.850968
	N	-1.421310	1.862223	-1.227889
	N	0.809446	1.962414	-1.778014
	H	0.819145	1.057168	-1.282204
	N	-0.800934	0.944626	2.123635
	N	1.308105	0.045796	2.195932
	H	1.086243	-0.145953	1.205952
	C	-3.875567	-0.199671	1.160691

H	-4.961735	-0.036898	1.180939
H	-3.557634	-0.393772	2.192051
C	-3.525713	-1.405347	0.316951
C	-4.469942	-2.377205	0.020485
H	-5.495979	-2.258928	0.353404
C	-4.063290	-3.491907	-0.722682
H	-4.778438	-4.258476	-1.007411
C	-2.735658	-3.608965	-1.102295
H	-2.405186	-4.449982	-1.697826
C	-1.821447	-2.599405	-0.733940
C	0.321730	-3.685215	-1.486632
C	0.076103	-5.042697	-1.207512
H	-0.781938	-5.334580	-0.613280
C	0.959045	-6.024102	-1.662346
H	0.748461	-7.066238	-1.434999
C	2.106536	-5.683426	-2.381451
H	2.788125	-6.454007	-2.730438
C	2.368496	-4.333762	-2.638043
H	3.259895	-4.045411	-3.189536
C	1.488226	-3.346705	-2.202029
H	1.689243	-2.299715	-2.413304
C	-3.727157	1.562156	-0.533158
H	-4.598286	2.197380	-0.320897
H	-4.083663	0.722058	-1.141689
C	-2.691345	2.324873	-1.330573
C	-3.054374	3.389046	-2.144547
H	-4.084305	3.729965	-2.169433
C	-2.067523	3.977577	-2.943322
H	-2.317862	4.784282	-3.626548
C	-0.760937	3.519812	-2.862878
H	0.010044	3.941855	-3.494065
C	-0.452333	2.478169	-1.964168
C	2.061695	2.466072	-2.150340
C	2.346746	3.830732	-2.344078
H	1.575073	4.579141	-2.207595
C	3.640630	4.236775	-2.677469
H	3.837191	5.296241	-2.822689
C	4.676539	3.309709	-2.807648
H	5.679815	3.635413	-3.067471
C	4.403444	1.955671	-2.587174
H	5.196941	1.217150	-2.670612
C	3.115528	1.536518	-2.266024
H	2.907568	0.483888	-2.092881
C	-2.949536	1.992294	1.761222
H	-3.881708	2.207940	2.300838
H	-2.628196	2.922370	1.277599
C	-1.861606	1.546407	2.715735
C	-1.943348	1.774308	4.081757
H	-2.819774	2.253403	4.505708
C	-0.875663	1.354587	4.885499
H	-0.913999	1.482121	5.963732
C	0.233830	0.763453	4.300741

	H	1.053000	0.408907	4.912157
	C	0.263626	0.597623	2.899614
	C	2.614383	-0.270804	2.591454
	C	3.315286	0.379606	3.623887
	H	2.854179	1.188975	4.177389
	C	4.631457	0.015227	3.916025
	H	5.153229	0.531052	4.718370
	C	5.282983	-0.979660	3.184779
	H	6.307182	-1.255630	3.419416
	C	4.599256	-1.607887	2.138414
	H	5.090886	-2.377828	1.548977
	C	3.282734	-1.263324	1.845418
	H	2.753686	-1.755591	1.033488
Ni(I)-Cl	SCF Done: -3743.50709270 A.U.			
	Ni	-0.200337	-0.876134	-0.753608
	Cl	0.041270	1.238792	1.251653
	N	-0.382864	-2.375065	-2.119318
	N	-2.326168	-0.966863	-0.832890
	N	-2.877558	0.088918	1.149329
	H	-1.864673	0.220323	1.209528
	N	0.835520	-2.396803	0.305329
	N	2.085358	-1.116736	1.777754
	H	1.410591	-0.378401	1.557507
	N	0.841638	0.049173	-2.353868
	N	0.799567	2.250701	-1.653966
	H	0.358351	1.840177	-0.827319
	C	-1.608941	-2.073897	-2.872165
	H	-1.920348	-2.914376	-3.507415
	H	-1.389262	-1.228249	-3.533909
	C	-2.714648	-1.686363	-1.921747
	C	-4.025081	-2.054744	-2.182861
	H	-4.258126	-2.635543	-3.068957
	C	-5.017116	-1.675879	-1.271545
	H	-6.053319	-1.962401	-1.427537
	C	-4.659033	-0.952055	-0.150125
	H	-5.397935	-0.679735	0.592162
	C	-3.304972	-0.596344	0.042841
	C	-3.635985	0.797944	2.104143
	C	-4.790619	1.531372	1.781779
	H	-5.146116	1.565653	0.757591
	C	-5.469052	2.241651	2.773675
	H	-6.361831	2.801471	2.506767
	C	-5.000348	2.256614	4.089532
	H	-5.530750	2.815370	4.855586
	C	-3.837294	1.549237	4.407255
	H	-3.455697	1.554097	5.425005
	C	-3.163962	0.820265	3.428277
	H	-2.268901	0.258113	3.679419
	C	-0.479235	-3.617662	-1.340439
	H	-0.348662	-4.509045	-1.969416
	H	-1.489687	-3.665188	-0.918941
	C	0.526831	-3.615680	-0.213717

	C	1.065116	-4.810085	0.240754
	H	0.789160	-5.744868	-0.235881
	C	1.949433	-4.771590	1.323785
	H	2.363002	-5.687544	1.736229
	C	2.296281	-3.547557	1.865696
	H	2.971152	-3.486509	2.709829
	C	1.750713	-2.367195	1.315316
	C	3.126768	-0.758468	2.654792
	C	4.409372	-1.330788	2.582168
	H	4.622326	-2.093618	1.840644
	C	5.418638	-0.902628	3.445101
	H	6.402974	-1.358561	3.374890
	C	5.181350	0.112681	4.375447
	H	5.973371	0.445293	5.040588
	C	3.914260	0.699431	4.433486
	H	3.712729	1.494224	5.147235
	C	2.892595	0.266106	3.589298
	H	1.906342	0.717352	3.644260
	C	0.829681	-2.304572	-2.947882
	H	0.750586	-2.929752	-3.847523
	H	1.660549	-2.695209	-2.349534
	C	1.118939	-0.870021	-3.318520
	C	1.640277	-0.553279	-4.563100
	H	1.828084	-1.338105	-5.288076
	C	1.892798	0.792098	-4.855032
	H	2.277167	1.086016	-5.827656
	C	1.624931	1.752359	-3.897302
	H	1.776370	2.802811	-4.109165
	C	1.114046	1.353770	-2.641724
	C	1.149852	3.611957	-1.541861
	C	2.382755	4.129278	-1.975254
	H	3.119601	3.475783	-2.429474
	C	2.676570	5.482187	-1.796763
	H	3.634186	5.864833	-2.140672
	C	1.767377	6.334245	-1.165496
	H	2.004894	7.385137	-1.025545
	C	0.551500	5.816455	-0.709923
	H	-0.165694	6.463685	-0.211620
	C	0.239675	4.471445	-0.901591
	H	-0.711882	4.074050	-0.560050
Ni(I)-Cl'	78			
		SERGI-ClnoD3-Nil+0delBr SCF Done: -3743.50717955 A.U.		
	Ni	-0.260235	-0.987004	0.462178
	Cl	0.188090	1.120990	-0.999293
	N	0.511460	-2.619678	1.459574
	N	2.783546	-0.929798	0.662019
	N	3.513365	0.701478	-0.771654
	H	2.511037	0.885058	-0.844252
	N	-0.923602	-2.313590	-0.838400
	N	-2.229544	-0.826822	-2.022596
	H	-1.523969	-0.157309	-1.711031
	N	-0.923159	-0.430505	2.243994

N	-1.282560	1.809194	1.832911
H	-0.768468	1.599355	0.974780
C	1.784922	-2.501821	2.210817
H	2.017944	-3.457293	2.701154
H	1.621072	-1.760227	2.999971
C	2.958654	-2.057404	1.367483
C	4.159089	-2.765801	1.383511
H	4.258763	-3.674263	1.968304
C	5.220219	-2.269441	0.617521
H	6.167771	-2.800626	0.584204
C	5.060054	-1.106388	-0.118555
H	5.862228	-0.731939	-0.741574
C	3.810249	-0.447280	-0.065698
C	4.362156	1.587200	-1.452004
C	5.676052	1.868727	-1.035683
H	6.083730	1.391695	-0.151304
C	6.452162	2.791043	-1.739610
H	7.465755	2.992982	-1.402293
C	5.936550	3.465336	-2.848773
H	6.545701	4.185043	-3.388329
C	4.622070	3.206703	-3.249002
H	4.199369	3.725579	-4.105696
C	3.843580	2.274955	-2.565760
H	2.826515	2.068693	-2.888316
C	0.575049	-3.709101	0.463102
H	0.554116	-4.697953	0.941309
H	1.536212	-3.618443	-0.055601
C	-0.536625	-3.585762	-0.550989
C	-1.091886	-4.705842	-1.152669
H	-0.761575	-5.697564	-0.861711
C	-2.063185	-4.518080	-2.141016
H	-2.498792	-5.368538	-2.657483
C	-2.464490	-3.230691	-2.465526
H	-3.193383	-3.058332	-3.246780
C	-1.892295	-2.141091	-1.784197
C	-3.307333	-0.297892	-2.751940
C	-4.578565	-0.898280	-2.789533
H	-4.764706	-1.820121	-2.249668
C	-5.617617	-0.292400	-3.497556
H	-6.592792	-0.772487	-3.515734
C	-5.422857	0.922036	-4.159641
H	-6.238118	1.388946	-4.705039
C	-4.166178	1.532031	-4.103487
H	-3.995830	2.480112	-4.607313
C	-3.116219	0.929106	-3.413991
H	-2.138409	1.402018	-3.381914
C	-0.603079	-2.814507	2.418975
H	-0.368148	-3.585011	3.165544
H	-1.471403	-3.164598	1.847896
C	-0.953456	-1.504483	3.081046
C	-1.330027	-1.425473	4.412048
H	-1.332959	-2.316428	5.030811

	C	-1.693449	-0.173859	4.923394
	H	-1.968911	-0.063409	5.968286
	C	-1.687388	0.932978	4.090474
	H	-1.936511	1.914170	4.473058
	C	-1.314668	0.776985	2.739653
	C	-1.784593	3.118125	1.947312
	C	-2.974105	3.428092	2.629942
	H	-3.550386	2.643970	3.108523
	C	-3.436382	4.744597	2.667650
	H	-4.356814	4.965123	3.202390
	C	-2.744558	5.766341	2.013155
	H	-3.113169	6.787780	2.043509
	C	-1.575679	5.455426	1.312108
	H	-1.026963	6.235935	0.791258
	C	-1.094048	4.148126	1.282882
	H	-0.179151	3.912166	0.746459
Ni(I)-Br	SCF Done: -5855.03362192 A.U.			
	Ni	-0.390998	-0.998598	0.515328
	Br	0.168242	0.927754	-1.030799
	N	0.335840	-2.686177	1.498738
	N	2.779504	-1.144675	0.702257
	N	3.584052	0.497817	-0.655772
	H	2.600027	0.767241	-0.632583
	N	-1.290897	-2.333366	-0.657234
	N	-2.642671	-0.781758	-1.679662
	H	-1.874512	-0.170827	-1.400802
	N	-0.843402	-0.367644	2.364697
	N	-1.060274	1.880289	1.943331
	H	-0.693306	1.579887	1.038258
	C	1.662961	-2.697304	2.174103
	H	1.826553	-3.676468	2.645413
	H	1.619766	-1.949377	2.971775
	C	2.820410	-2.360869	1.261945
	C	3.874588	-3.252051	1.058962
	H	3.877019	-4.227174	1.534819
	C	4.919509	-2.845534	0.221363
	H	5.754176	-3.513050	0.024057
	C	4.885875	-1.595529	-0.379819
	H	5.671221	-1.288184	-1.058214
	C	3.780498	-0.758441	-0.110689
	C	4.411756	1.280963	-1.469583
	C	5.812141	1.317598	-1.344005
	H	6.310763	0.719332	-0.589700
	C	6.565899	2.157063	-2.166483
	H	7.647296	2.170012	-2.055233
	C	5.949427	2.985964	-3.106339
	H	6.543871	3.638634	-3.739428
	C	4.554886	2.971230	-3.212858
	H	4.054882	3.615599	-3.931640
	C	3.791820	2.126884	-2.410307
	H	2.707952	2.111815	-2.495931
	C	0.235222	-3.799130	0.531862

	H	0.167071	-4.770544	1.041599
	H	1.162817	-3.805565	-0.051899
	C	-0.930651	-3.617590	-0.410721
	C	-1.551402	-4.710823	-1.001250
	H	-1.235108	-5.717446	-0.748344
	C	-2.567580	-4.474815	-1.930624
	H	-3.053810	-5.301694	-2.440225
	C	-2.956583	-3.170303	-2.202180
	H	-3.727429	-2.964699	-2.932734
	C	-2.318997	-2.114226	-1.528681
	C	-3.621396	-0.168767	-2.479725
	C	-4.917040	-0.683996	-2.656062
	H	-5.212141	-1.606949	-2.169875
	C	-5.845429	0.015056	-3.430270
	H	-6.842467	-0.398822	-3.557827
	C	-5.514768	1.237356	-4.019337
	H	-6.244984	1.775635	-4.616973
	C	-4.234861	1.764399	-3.819730
	H	-3.961396	2.719239	-4.261436
	C	-3.294347	1.070250	-3.062866
	H	-2.298051	1.476940	-2.907366
	C	-0.725315	-2.764801	2.534766
	H	-0.523336	-3.561075	3.263772
	H	-1.665429	-3.009927	2.026930
	C	-0.878497	-1.427680	3.215171
	C	-1.077524	-1.306142	4.581778
	H	-1.092332	-2.189511	5.211088
	C	-1.238681	-0.021419	5.112379
	H	-1.361590	0.122664	6.181976
	C	-1.228634	1.076407	4.266469
	H	-1.316839	2.077432	4.665686
	C	-1.059074	0.875958	2.881496
	C	-1.334199	3.252600	2.044130
	C	-2.220132	3.819376	2.977379
	H	-2.756958	3.195454	3.681606
	C	-2.448635	5.197442	2.974586
	H	-3.135249	5.616600	3.705815
	C	-1.826597	6.029303	2.042112
	H	-2.012149	7.099640	2.047937
	C	-0.973110	5.461321	1.090369
	H	-0.491354	6.088195	0.344246
	C	-0.725396	4.091784	1.089358
	H	-0.077420	3.645714	0.339326
[Ni(II)-F₂]⁻¹	SCF Done:	-3483.10909419 A.U.		
	C	3.320827	-2.828494	-0.638031
	H	3.186302	-3.046199	-1.701909
	H	4.011751	-3.575204	-0.222684
	C	3.903668	-1.438027	-0.498790
	C	5.276565	-1.226828	-0.414506
	H	5.960518	-2.068577	-0.382087
	C	5.737518	0.092839	-0.393875
	H	6.803781	0.300250	-0.359322

C	4.836186	1.147082	-0.424996
H	5.184345	2.171155	-0.439888
C	3.455139	0.855319	-0.467891
C	2.545985	3.198616	-0.385268
C	1.628409	3.972724	-1.122371
H	0.927877	3.469397	-1.783554
C	1.620617	5.361686	-1.010358
H	0.904388	5.937884	-1.590636
C	2.531574	6.011388	-0.171703
H	2.531506	7.094840	-0.092092
C	3.435422	5.246903	0.569471
H	4.137122	5.734031	1.241962
C	3.442102	3.853722	0.478267
H	4.122176	3.280881	1.098629
C	2.077276	-2.819198	1.464669
H	2.970444	-2.220740	1.692351
H	2.240012	-3.817165	1.894078
C	0.879826	-2.156680	2.078839
C	0.393530	-2.552123	3.325442
H	0.777980	-3.455567	3.791068
C	-0.544431	-1.747274	3.965884
H	-0.922182	-2.005813	4.951317
C	-0.997545	-0.578496	3.324596
H	-1.680036	0.090348	3.830433
C	-0.516397	-0.274478	2.042714
C	-1.937134	1.752914	1.527370
C	-3.123565	1.475310	2.233541
H	-3.296229	0.488835	2.645605
C	-4.110352	2.454754	2.368004
H	-5.016827	2.214279	2.918479
C	-3.956707	3.717501	1.792981
H	-4.729780	4.473017	1.902754
C	-2.793908	3.989447	1.064334
H	-2.655569	4.962187	0.598531
C	-1.797387	3.025872	0.935798
H	-0.889972	3.250142	0.381419
C	1.152142	-4.020905	-0.472505
H	1.415826	-4.951909	0.048872
H	1.389768	-4.160638	-1.536093
C	-0.314571	-3.720581	-0.324955
C	-1.244285	-4.712845	-0.012569
H	-0.897516	-5.688799	0.318104
C	-2.600685	-4.444816	-0.178289
H	-3.349852	-5.203010	0.032301
C	-3.002562	-3.167949	-0.641366
H	-4.045122	-2.968014	-0.843501
C	-2.024214	-2.196686	-0.878522
C	-3.470454	-0.217170	-1.547128
C	-4.690527	-0.485722	-0.896431
H	-4.750449	-1.258812	-0.141174
C	-5.824329	0.279099	-1.181735
H	-6.753790	0.050293	-0.665602

	C	-5.774138	1.333804	-2.094359
	H	-6.662038	1.921594	-2.310084
	C	-4.556499	1.626969	-2.718762
	H	-4.488787	2.450666	-3.425373
	C	-3.423181	0.864537	-2.453015
	H	-2.482280	1.090927	-2.948731
	N	1.987952	-2.888339	-0.011968
	N	3.011577	-0.423527	-0.516598
	N	2.459186	1.803603	-0.506095
	H	1.543020	1.432951	-0.799992
	N	0.432351	-1.037640	1.424463
	N	-0.899388	0.835552	1.311622
	H	-0.451164	0.890272	0.386755
	N	-0.693545	-2.460097	-0.737615
	N	-2.274309	-0.906041	-1.324983
	H	-1.426530	-0.347053	-1.455048
	Ni	0.986085	-1.178457	-0.715102
	F	1.379328	-1.500823	-2.569928
	F	0.110745	0.607766	-1.202373
Ni(II)-F(CH₃CN)	SCF Done: -3515.90374616 A.U.			
	C	-1.318731	-3.836281	0.073134
	H	-1.295566	-4.024015	1.154327
	H	-1.224170	-4.807739	-0.432685
	C	-2.632704	-3.186807	-0.280823
	C	-3.662988	-3.898628	-0.880719
	H	-3.529866	-4.944313	-1.137302
	C	-4.857959	-3.221658	-1.152268
	H	-5.680000	-3.731270	-1.647223
	C	-4.987575	-1.887651	-0.799206
	H	-5.893793	-1.344720	-1.033143
	C	-3.906310	-1.234609	-0.166757
	C	-4.981139	0.972848	0.385824
	C	-4.675955	2.348550	0.338421
	H	-3.649743	2.652299	0.150489
	C	-5.668150	3.305909	0.531113
	H	-5.405193	4.359928	0.487449
	C	-6.991476	2.920679	0.770149
	H	-7.767414	3.668026	0.910388
	C	-7.296887	1.559923	0.835924
	H	-8.315105	1.240135	1.043831
	C	-6.308149	0.589972	0.657053
	H	-6.568020	-0.456689	0.761833
	C	-0.030966	-2.719908	-1.682120
	H	-1.037025	-2.743475	-2.115352
	H	0.546744	-3.511862	-2.174763
	C	0.556104	-1.358061	-1.975526
	C	1.436522	-1.162106	-3.031857
	H	1.764593	-2.002893	-3.633724
	C	1.903496	0.135472	-3.266918
	H	2.631667	0.326448	-4.050515
	C	1.435123	1.183816	-2.491085
	H	1.808418	2.187503	-2.642375

C	0.486448	0.917776	-1.478699
C	-0.122631	3.266706	-0.787309
C	-0.434991	3.979884	0.390384
H	-0.606281	3.423794	1.308076
C	-0.529090	5.368517	0.381156
H	-0.768475	5.890835	1.304193
C	-0.310099	6.088766	-0.798036
H	-0.373785	7.173260	-0.803288
C	-0.019823	5.388902	-1.970377
H	0.130491	5.927770	-2.902776
C	0.066231	3.994805	-1.977661
H	0.243893	3.483310	-2.915606
C	1.047707	-3.615886	0.348479
H	1.054477	-4.667791	0.029876
H	0.927503	-3.593054	1.435115
C	2.393996	-3.016508	-0.011762
C	3.257465	-3.700824	-0.871161
H	2.956354	-4.639207	-1.324595
C	4.522735	-3.154407	-1.108518
H	5.232041	-3.671912	-1.748981
C	4.885403	-1.955683	-0.512503
H	5.875231	-1.542297	-0.657312
C	3.940950	-1.320107	0.322392
C	5.210341	0.803757	0.879626
C	5.538585	1.563132	2.018557
H	5.011737	1.373392	2.950713
C	6.524825	2.544644	1.955442
H	6.759992	3.119847	2.847368
C	7.214590	2.783386	0.762657
H	7.989969	3.542893	0.716883
C	6.885209	2.037913	-0.371283
H	7.396718	2.223203	-1.312468
C	5.886420	1.063475	-0.325708
H	5.615720	0.533043	-1.231478
C	0.224015	-1.303744	3.432186
C	0.684667	-1.342697	4.812337
H	0.848547	-0.324626	5.181730
H	1.628116	-1.895316	4.878351
H	-0.056603	-1.833131	5.453472
N	-0.163568	-2.955547	-0.227116
N	-2.725961	-1.879338	0.054730
N	-3.912090	0.080821	0.226687
H	-2.984477	0.429549	0.545207
N	0.105935	-0.357754	-1.184790
N	-0.097364	1.871334	-0.683828
H	-0.671357	1.469392	0.087274
N	2.733737	-1.857447	0.573439
N	4.174138	-0.134015	0.996886
H	3.497121	0.043746	1.730838
N	-0.142039	-1.279845	2.326134
F	-1.562297	0.775903	1.185168
Ni	-0.858305	-1.076937	0.564908

Ni(I)-Cl(CH₃CN)

SCF Done: -3876.26881552 A.U.

C	1.395524	-3.843433	-0.182938
H	1.331921	-3.999602	-1.266954
H	1.341290	-4.829737	0.297810
C	2.701585	-3.173194	0.156564
C	3.749994	-3.883292	0.722028
H	3.645131	-4.943278	0.926645
C	4.921907	-3.185578	1.039478
H	5.759189	-3.696851	1.506196
C	5.003284	-1.830829	0.775530
H	5.887881	-1.268816	1.044373
C	3.902848	-1.176768	0.174014
C	4.956396	1.089715	-0.051123
C	4.662442	2.399861	0.364363
H	3.647776	2.643161	0.666825
C	5.659239	3.374117	0.389077
H	5.411746	4.382082	0.711937
C	6.968348	3.057420	0.014645
H	7.746910	3.814711	0.044589
C	7.262569	1.758572	-0.406207
H	8.271647	1.501618	-0.718267
C	6.266316	0.781540	-0.454520
H	6.503813	-0.209955	-0.825029
C	0.190416	-2.730933	1.648254
H	1.218197	-2.746545	2.025464
H	-0.355834	-3.512522	2.189309
C	-0.389715	-1.366431	1.944863
C	-1.128180	-1.143840	3.097345
H	-1.344119	-1.964864	3.772551
C	-1.591486	0.152899	3.347516
H	-2.194632	0.363973	4.226228
C	-1.289180	1.168168	2.458382
H	-1.661636	2.172059	2.615787
C	-0.510140	0.874679	1.316386
C	-0.267341	3.225107	0.489922
C	-0.589925	3.957570	-0.665515
H	-0.796777	3.423968	-1.587970
C	-0.640868	5.350248	-0.627835
H	-0.890617	5.898977	-1.532400
C	-0.385940	6.037629	0.562350
H	-0.436136	7.122565	0.592392
C	-0.060000	5.313330	1.711485
H	0.156779	5.833828	2.640938
C	0.013258	3.919723	1.679163
H	0.303456	3.375087	2.571445
C	-0.993463	-3.696532	-0.294985
H	-0.948882	-4.741149	0.041848
H	-0.944965	-3.691583	-1.387372
C	-2.326308	-3.122759	0.145485
C	-3.110899	-3.808860	1.075607
H	-2.756477	-4.730258	1.525259
C	-4.369977	-3.286875	1.388385

	H	-5.021963	-3.807782	2.084519
	C	-4.800679	-2.108728	0.797180
	H	-5.788931	-1.717568	1.001259
	C	-3.930235	-1.466058	-0.110022
	C	-5.275070	0.627029	-0.618273
	C	-5.659972	1.384090	-1.741353
	H	-5.168992	1.202987	-2.694539
	C	-6.656504	2.351161	-1.636479
	H	-6.935541	2.924118	-2.517113
	C	-7.300366	2.578960	-0.416101
	H	-8.083997	3.327145	-0.337493
	C	-6.913717	1.837452	0.702018
	H	-7.388395	2.014704	1.663804
	C	-5.903979	0.877057	0.614367
	H	-5.588336	0.352347	1.508585
	C	-0.233408	-1.524017	-3.466091
	C	-0.730888	-1.682821	-4.823720
	H	-0.581765	-0.752402	-5.382332
	H	-1.800719	-1.918049	-4.811283
	H	-0.196779	-2.490232	-5.336519
	N	0.235492	-2.995638	0.191150
	N	2.753344	-1.845322	-0.114766
	N	3.889680	0.164510	-0.104077
	H	3.034643	0.515601	-0.550833
	N	-0.082804	-0.389639	1.053237
	N	-0.174845	1.821030	0.382325
	H	0.298394	1.474790	-0.460704
	N	-2.731539	-1.982986	-0.435637
	N	-4.232587	-0.296122	-0.784584
	H	-3.603861	-0.114118	-1.559417
	N	0.163088	-1.385022	-2.380956
	Cl	1.782032	1.465364	-2.140620
	Ni	0.832925	-1.152411	-0.630761
Ni(I)-Br(CH₃CN)	SCF Done: -5987.78824392 A.U.			
	C	2.281994	-3.473319	0.836638
	H	2.415684	-3.888078	-0.169746
	H	2.445809	-4.286370	1.557543
	C	3.284132	-2.367501	1.040863
	C	4.450748	-2.548972	1.768708
	H	4.645537	-3.498160	2.256665
	C	5.344250	-1.476672	1.861545
	H	6.254107	-1.563657	2.448407
	C	5.054409	-0.288067	1.208605
	H	5.713153	0.564567	1.303753
	C	3.865626	-0.185333	0.459344
	C	4.198702	2.078575	-0.625211
	C	3.441683	3.222423	-0.951416
	H	2.358475	3.169459	-0.883966
	C	4.068015	4.388016	-1.382448
	H	3.461747	5.256679	-1.626911
	C	5.461008	4.447512	-1.497251

H	5.949570	5.360830	-1.824773
C	6.211823	3.309527	-1.198189
H	7.293561	3.327083	-1.305468
C	5.596388	2.129063	-0.775228
H	6.204494	1.250848	-0.596253
C	0.621411	-2.598749	2.343877
H	1.539839	-2.160466	2.744504
H	0.434493	-3.527284	2.900084
C	-0.489040	-1.606420	2.607341
C	-1.590113	-1.935246	3.399751
H	-1.712270	-2.939950	3.791137
C	-2.524561	-0.929877	3.669274
H	-3.401419	-1.145758	4.274255
C	-2.349152	0.344769	3.146895
H	-3.086314	1.119211	3.317338
C	-1.206548	0.582666	2.353810
C	-1.572906	3.010886	1.769554
C	-1.627372	3.794574	0.599993
H	-1.212294	3.390159	-0.319958
C	-2.205934	5.061186	0.624377
H	-2.237624	5.647918	-0.290333
C	-2.751326	5.572522	1.806512
H	-3.209708	6.557311	1.821486
C	-2.691354	4.801004	2.969543
H	-3.094836	5.189257	3.901508
C	-2.100120	3.536390	2.963233
H	-2.025362	2.973257	3.887217
C	-0.036907	-3.985252	0.431383
H	-0.056989	-4.827413	1.138257
H	0.373618	-4.368544	-0.508874
C	-1.455659	-3.528717	0.151311
C	-2.517094	-4.427710	0.294241
H	-2.355183	-5.419508	0.704472
C	-3.778545	-4.014099	-0.139213
H	-4.625958	-4.692582	-0.083034
C	-3.960753	-2.735365	-0.652488
H	-4.929072	-2.428541	-1.023493
C	-2.841600	-1.876769	-0.700352
C	-3.878797	0.290355	-1.544221
C	-3.525817	1.375044	-2.374932
H	-2.488283	1.484062	-2.680768
C	-4.482675	2.299359	-2.782790
H	-4.183467	3.125171	-3.423473
C	-5.816564	2.167778	-2.381458
H	-6.565116	2.883661	-2.708907
C	-6.166431	1.108444	-1.542919
H	-7.192490	1.002228	-1.199329
C	-5.213917	0.180649	-1.114522
H	-5.509625	-0.597265	-0.422031
C	0.794237	-2.754934	-3.218875
C	0.711742	-3.299120	-4.565777
H	-0.073438	-2.787451	-5.132753

	H	0.476115	-4.367952	-4.524884
	H	1.666168	-3.168685	-5.087706
	N	0.894742	-2.938156	0.910799
	N	2.965114	-1.209169	0.406629
	N	3.482696	0.939491	-0.231962
	H	2.506235	0.914791	-0.532923
	N	-0.295062	-0.376397	2.116870
	N	-0.923098	1.773659	1.699364
	H	-0.390263	1.603101	0.843356
	N	-1.615378	-2.292733	-0.325644
	N	-2.846403	-0.574258	-1.164375
	H	-1.903832	-0.185609	-1.232794
	N	0.855347	-2.320369	-2.140647
	Br	0.344633	0.880801	-1.389748
	Ni	1.186042	-1.386448	-0.525882

Table S6. Xyz coordinates and absolute energies (in a.u.) of all computed DFT species, including dispersion corrections by the D3 model.

Ni(I)-F	78		
	SERGI-F-Nil+0arreglat SCF Done: -3383.25640891 A.U.		
	Ni	-0.960925	1.007287 0.029429
	F	-0.095039	-0.759363 -0.774217
	N	-1.756707	2.806868 0.655685
	N	-2.869110	0.357672 0.136005
	N	-2.516281	-1.768361 -0.657448
	H	-1.551073	-1.411561 -0.703916
	N	-0.064473	2.252044 -1.373927
	N	1.699857	0.858324 -1.859065
	H	1.049971	0.157515 -1.474393
	N	0.207777	1.220970 1.726270
	N	1.183164	-0.848643 1.563392
	H	0.627174	-0.870681 0.694513
	C	-3.028395	2.466532 1.309708
	H	-3.692387	3.336890 1.397708
	H	-2.781725	2.134152 2.325544
	C	-3.712861	1.319297 0.604700
	C	-5.094070	1.234404 0.526641
	H	-5.708127	2.045009 0.905621
	C	-5.661214	0.090773 -0.049293
	H	-6.737364	0.002455 -0.166169
	C	-4.828259	-0.938538 -0.468499
	H	-5.238403	-1.826240 -0.931922
	C	-3.435127	-0.802680 -0.322825
	C	-2.628812	-3.146705 -0.833748
	C	-3.717971	-3.936157 -0.419265
	H	-4.565602	-3.487407 0.083442
	C	-3.694019	-5.319267 -0.615543
	H	-4.546620	-5.908913 -0.287223
	C	-2.597361	-5.948477 -1.207674
	H	-2.591346	-7.024541 -1.356248
	C	-1.501477	-5.169209 -1.597691
	H	-0.630329	-5.637396 -2.049365
	C	-1.514188	-3.790077 -1.418096
	H	-0.661141	-3.185556 -1.715387
	C	-1.938203	3.551953 -0.605692
	H	-2.219191	4.599274 -0.431464
	H	-2.762271	3.067805 -1.142956
	C	-0.677853	3.458571 -1.434610
	C	-0.177929	4.530992 -2.158438
H	-0.699981	5.482054 -2.155304	
C	1.004339	4.343924 -2.886620	
H	1.408989	5.146345 -3.496806	
C	1.662102	3.124638 -2.820577	
H	2.567836	2.948070 -3.387689	
C	1.121503	2.097899 -2.020687	
C	3.047245	0.488976 -1.809924	
C	4.128401	1.388244 -1.772097	

	H	3.956289	2.457746	-1.790641
	C	5.435565	0.906573	-1.667781
	H	6.255451	1.620165	-1.637213
	C	5.697666	-0.462496	-1.585148
	H	6.717908	-0.825495	-1.499106
	C	4.622364	-1.358205	-1.604110
	H	4.797967	-2.427328	-1.519194
	C	3.316439	-0.893482	-1.721405
	H	2.483848	-1.591389	-1.720524
	C	-0.790451	3.429041	1.579277
	H	-1.273009	4.156194	2.244473
	H	-0.061501	3.980116	0.975776
	C	-0.030416	2.383244	2.375305
	C	0.449561	2.644225	3.651240
	H	0.227690	3.588328	4.137900
	C	1.216929	1.656675	4.283306
	H	1.587336	1.812169	5.292734
	C	1.496520	0.470186	3.622851
	H	2.065031	-0.315231	4.104931
	C	0.992425	0.283668	2.318654
	C	2.209258	-1.801601	1.609750
	C	3.470332	-1.583811	2.191702
	H	3.699488	-0.635924	2.664849
	C	4.453905	-2.572286	2.119533
	H	5.424358	-2.382707	2.571472
	C	4.213682	-3.780487	1.460918
	H	4.986435	-4.542161	1.407257
	C	2.964955	-3.992106	0.865506
	H	2.759744	-4.922053	0.341114
	C	1.971104	-3.020029	0.941928
	H	1.002087	-3.186818	0.477959
Ni(I)-Cl	78			
	symmetry c1			
	Ni	0.616527000	-0.822276000	0.278373000
	Cl	0.122532000	0.986566000	-0.327532000
	N	1.107154000	-2.764234000	0.716379000
	N	2.762346000	-0.662601000	0.525488000
	N	3.268648000	1.157010000	-0.822717000
	H	2.281493000	1.004179000	-1.023776000
	N	-0.137030000	-1.941623000	-1.484685000
	N	-1.856157000	-0.563886000	-2.096739000
	H	-1.348867000	0.038766000	-1.449645000
	N	-0.866433000	-1.266719000	1.877525000
	N	-1.583013000	0.847168000	2.336071000
	H	-1.000831000	0.981364000	1.509057000
	C	2.168853000	-2.683382000	1.731175000
	H	2.614076000	-3.665879000	1.940667000
	H	1.708591000	-2.314349000	2.654880000
	C	3.218480000	-1.712606000	1.266653000
	C	4.548052000	-1.917835000	1.604820000
	H	4.826993000	-2.781447000	2.199857000
	C	5.505343000	-1.026114000	1.124827000

H	6.560668000	-1.178844000	1.332517000
C	5.092034000	0.027886000	0.329540000
H	5.819541000	0.679519000	-0.134006000
C	3.716586000	0.203675000	0.063729000
C	3.657338000	2.488375000	-0.986860000
C	4.476173000	3.215972000	-0.100503000
H	4.832047000	2.762311000	0.815675000
C	4.790192000	4.547910000	-0.371789000
H	5.422069000	5.089889000	0.327533000
C	4.294162000	5.191585000	-1.508168000
H	4.547965000	6.228071000	-1.711358000
C	3.458277000	4.480230000	-2.374802000
H	3.052685000	4.961119000	-3.261379000
C	3.143750000	3.147377000	-2.122092000
H	2.514630000	2.591782000	-2.813816000
C	1.576824000	-3.358274000	-0.545404000
H	1.773210000	-4.433564000	-0.440236000
H	2.520136000	-2.866510000	-0.803123000
C	0.565038000	-3.091002000	-1.631649000
C	0.379554000	-3.977466000	-2.684133000
H	0.960619000	-4.892256000	-2.735120000
C	-0.567875000	-3.652759000	-3.659127000
H	-0.714330000	-4.297824000	-4.521592000
C	-1.332541000	-2.506703000	-3.518676000
H	-2.065312000	-2.238002000	-4.267523000
C	-1.126707000	-1.687895000	-2.387209000
C	-2.970866000	0.014231000	-2.708463000
C	-3.994996000	-0.719609000	-3.332421000
H	-3.945170000	-1.801995000	-3.369161000
C	-5.103517000	-0.057431000	-3.861392000
H	-5.883620000	-0.640970000	-4.343687000
C	-5.229172000	1.330545000	-3.760122000
H	-6.096279000	1.836411000	-4.175145000
C	-4.228599000	2.057171000	-3.106160000
H	-4.315185000	3.135896000	-3.003030000
C	-3.109393000	1.411138000	-2.587070000
H	-2.327935000	1.979301000	-2.085515000
C	-0.087824000	-3.452008000	1.232984000
H	0.154911000	-4.412217000	1.704620000
H	-0.748881000	-3.635956000	0.380221000
C	-0.821403000	-2.580043000	2.212855000
C	-1.451896000	-3.134588000	3.316165000
H	-1.377855000	-4.200881000	3.505216000
C	-2.180032000	-2.293174000	4.163532000
H	-2.667451000	-2.684647000	5.051915000
C	-2.255746000	-0.948042000	3.855524000
H	-2.758563000	-0.252363000	4.515814000
C	-1.616730000	-0.474977000	2.689205000
C	-2.500420000	1.882618000	2.559514000
C	-3.822844000	1.703340000	3.002394000
H	-4.201421000	0.709561000	3.211317000
C	-4.663913000	2.806969000	3.155229000

	H	-5.679527000	2.647623000	3.508422000
	C	-4.227593000	4.096163000	2.840677000
	H	-4.890741000	4.948148000	2.960643000
	C	-2.924563000	4.272503000	2.363061000
	H	-2.566176000	5.265538000	2.103897000
	C	-2.068373000	3.183553000	2.226766000
	H	-1.049809000	3.330524000	1.874551000
Ni(I)-Br	78			
	SERGI-Br-Nil+0arreglat SCF Done: -5855.13969438 A.U.			
	Ni	-0.377892	-1.064621	0.446026
	Br	0.220737	0.900916	-1.008620
	N	0.224098	-2.851065	1.298956
	N	2.688790	-1.285284	0.656599
	N	3.526305	0.499501	-0.488855
	H	2.552879	0.794522	-0.413774
	N	-1.417293	-2.239158	-0.772015
	N	-2.716695	-0.534018	-1.589771
	H	-1.903768	0.001084	-1.288228
	N	-0.761604	-0.531858	2.333493
	N	-0.823301	1.739476	2.045079
	H	-0.512434	1.458575	1.114499
	C	1.558859	-2.975014	1.941765
	H	1.700414	-4.001337	2.306891
	H	1.557473	-2.306000	2.807116
	C	2.688111	-2.573945	1.025340
	C	3.660179	-3.483415	0.611959
	H	3.623157	-4.518240	0.935798
	C	4.672138	-3.015381	-0.234936
	H	5.442720	-3.692263	-0.594194
	C	4.684601	-1.687207	-0.635233
	H	5.443900	-1.320548	-1.314041
	C	3.660120	-0.838866	-0.159909
	C	4.321801	1.278570	-1.344513
	C	5.725740	1.276126	-1.278458
	H	6.232992	0.649062	-0.552730
	C	6.466639	2.103361	-2.123883
	H	7.551872	2.086709	-2.062696
	C	5.829015	2.960612	-3.024657
	H	6.411889	3.606503	-3.675327
	C	4.431467	2.983184	-3.071634
	H	3.918975	3.647958	-3.762466
	C	3.680684	2.147112	-2.247220
	H	2.594717	2.151818	-2.292770
	C	0.049829	-3.872928	0.247151
	H	-0.042693	-4.880919	0.674529
	H	0.958150	-3.857879	-0.365646
	C	-1.132651	-3.557970	-0.635680
	C	-1.842758	-4.562093	-1.279423
	H	-1.582787	-5.602445	-1.114535
	C	-2.873169	-4.191600	-2.148192
	H	-3.427853	-4.944575	-2.700590
	C	-3.189896	-2.848498	-2.302241

	H	-3.972416	-2.540203	-2.982500
	C	-2.466110	-1.889760	-1.572713
	C	-3.658564	0.212703	-2.314055
	C	-4.987927	-0.195427	-2.513513
	H	-5.337964	-1.138044	-2.108033
	C	-5.873754	0.634372	-3.203941
	H	-6.898567	0.303871	-3.352817
	C	-5.464622	1.881540	-3.681939
	H	-6.162139	2.522224	-4.214048
	C	-4.149017	2.300122	-3.455860
	H	-3.815573	3.271958	-3.810809
	C	-3.250607	1.475982	-2.783199
	H	-2.226357	1.795681	-2.606398
	C	-0.826294	-2.934597	2.343216
	H	-0.671849	-3.793419	3.009477
	H	-1.787380	-3.072904	1.834882
	C	-0.869485	-1.638750	3.114165
	C	-1.034319	-1.589403	4.489168
	H	-1.107331	-2.507458	5.062010
	C	-1.083159	-0.331482	5.101645
	H	-1.172975	-0.246931	6.180798
	C	-1.005321	0.815152	4.325828
	H	-1.005978	1.792677	4.788387
	C	-0.877998	0.689512	2.927677
	C	-1.021633	3.116759	2.201808
	C	-1.827960	3.696670	3.196416
	H	-2.361876	3.076220	3.905689
	C	-1.980507	5.084310	3.247701
	H	-2.605415	5.515102	4.025976
	C	-1.360993	5.912543	2.309980
	H	-1.486262	6.990500	2.358569
	C	-0.590215	5.331962	1.296402
	H	-0.115203	5.957011	0.544450
	C	-0.418467	3.952399	1.239602
	H	0.158185	3.495943	0.439371

Table S6. Most intense bands (in nm) of the UV/Vis spectra for **Ni(I)-X** species, in THF.

Ni(I)-F

Excited State 1:	2.914-A	1.0399 eV	1192.32 nm	f=0.0270	<S**2>=1.873
166B ->169B	0.25874				
166B ->170B	0.62340				
167B ->168B	-0.21330				
167B ->169B	0.61429				
167B ->170B	-0.34979				
167B ->180B	0.13944				
166B <-170B	0.15318				
167B <-169B	0.15320				
Excited State 2:	2.974-A	1.0574 eV	1172.57 nm	f=0.0780	<S**2>=1.961
166B ->168B	0.11885				
166B ->169B	-0.55433				
166B ->170B	0.22323				
167B ->169B	0.38404				
167B ->170B	0.69744				
166B <-169B	-0.15981				
167B <-170B	0.13985				
Excited State 4:	2.632-A	1.2869 eV	963.47 nm	f=0.0283	<S**2>=1.482
165B ->180B	-0.10723				
166B ->168B	-0.25704				
166B ->170B	0.17421				
166B ->180B	0.14929				
167B ->168B	0.73999				
167B ->169B	0.18749				
167B ->180B	-0.49727				
167B ->183B	-0.12255				
Excited State 5:	2.668-A	1.3489 eV	919.12 nm	f=0.0331	<S**2>=1.530
164B ->180B	0.14373				
166B ->168B	0.68109				
166B ->169B	0.31499				
166B ->170B	-0.15924				
166B ->180B	-0.48166				
166B ->183B	-0.12008				
167B ->168B	0.31296				
167B ->169B	0.14195				
Excited State 6:	2.412-A	1.4301 eV	866.93 nm	f=0.0102	<S**2>=1.205
165B ->180B	0.49148				
165B ->183B	0.12258				
166B ->168B	-0.32770				
166B ->180B	-0.16552				
167B ->168B	0.43988				
167B ->180B	0.58764				
167B ->183B	0.13080				
Excited State 7:	2.278-A	1.4657 eV	845.90 nm	f=0.0101	<S**2>=1.047
164B ->170B	0.10112				
164B ->180B	-0.77690				
164B ->183B	-0.18893				
164B ->190B	-0.11209				
166B ->168B	0.33530				

166B ->180B	0.32467	
167B ->168B	0.17449	
167B ->180B	0.13817	
Excited State 11: 2.900-A	2.0990 eV	590.68 nm f=0.0123 <S**2>=1.853
166B ->172B	0.14070	
167B ->171B	0.92829	
167B ->172B	0.26384	
167B ->173B	-0.10745	
Excited State 12: 2.908-A	2.1461 eV	577.73 nm f=0.0105 <S**2>=1.864
166B ->171B	0.82469	
166B ->172B	-0.16727	
167B ->172B	0.44039	
167B ->173B	0.23924	
Excited State 13: 2.900-A	2.1902 eV	566.09 nm f=0.0168 <S**2>=1.852
166B ->171B	-0.37685	
166B ->173B	-0.41464	
167B ->171B	-0.18906	
167B ->172B	0.76799	
167B ->173B	-0.16953	
Excited State 19: 2.800-A	2.6114 eV	474.79 nm f=0.0220 <S**2>=1.710
168A ->169A	0.96951	
Excited State 24: 2.761-A	2.7053 eV	458.29 nm f=0.0310 <S**2>=1.656
166A ->169A	-0.17882	
166A ->170A	-0.11331	
167A ->169A	0.76568	
168A ->171A	-0.42539	
164B ->170B	0.23866	
165B ->168B	0.25586	
165B ->169B	-0.11373	
Excited State 25: 2.729-A	2.7113 eV	457.28 nm f=0.0117 <S**2>=1.612
166A ->169A	0.47565	
166A ->170A	-0.14798	
167A ->169A	0.50354	
167A ->170A	-0.21960	
168A ->170A	0.31055	
168A ->171A	0.46413	
164B ->169B	0.15710	
164B ->170B	-0.15114	
165B ->168B	-0.16400	
Excited State 30: 2.723-A	2.7689 eV	447.78 nm f=0.0543 <S**2>=1.604
166A ->170A	-0.13015	
167A ->171A	-0.55728	
168A ->170A	0.61016	
168A ->171A	-0.16967	
164B ->168B	0.27803	
164B ->169B	-0.14275	
164B ->170B	0.18122	
165B ->168B	-0.14625	
165B ->169B	-0.14389	
165B ->170B	-0.12421	
Excited State 31: 2.519-A	2.7781 eV	446.29 nm f=0.0394 <S**2>=1.337
166A ->169A	0.63659	

166A ->170A	-0.15987				
167A ->169A	-0.21122				
167A ->170A	-0.35320				
167A ->171A	0.12854				
168A ->170A	-0.11413				
168A ->171A	-0.48144				
164B ->170B	0.20059				
165B ->168B	-0.12062				
165B ->169B	-0.17276				
Excited State 34:	2.661-A	2.8509 eV	434.89 nm	f=0.0295	<S**2>=1.521
166A ->169A	0.48135				
167A ->170A	0.81901				
167A ->171A	-0.12228				
168A ->171A	-0.12917				

Ni(II)-Cl

Excited State 5:	2.921-A	1.3382 eV	926.48 nm	f=0.0323	<S**2>=1.883
168B ->184B	0.20333				
170B ->173B	0.56569				
170B ->174B	0.29272				
171B ->173B	-0.15748				
171B ->174B	0.70129				
170B ->173B	0.10283				
Excited State 6:	2.941-A	1.3427 eV	923.42 nm	f=0.0544	<S**2>=1.912
169B ->184B	0.23156				
170B ->173B	-0.25302				
170B ->174B	0.63481				
171B ->173B	-0.62597				
171B ->174B	-0.22158				
Excited State 8:	2.901-A	1.5201 eV	815.65 nm	f=0.0266	<S**2>=1.853
170B ->172B	0.21568				
171B ->172B	0.94708				
171B ->173B	0.16272				
171B ->184B	0.11519				
Excited State 9:	2.917-A	1.5471 eV	801.42 nm	f=0.0400	<S**2>=1.877
170B ->172B	0.94682				
170B ->173B	0.14216				
170B ->184B	0.11831				
171B ->172B	-0.19351				
Excited State 11:	2.884-A	2.2855 eV	542.48 nm	f=0.0133	<S**2>=1.830
170B ->177B	0.11848				
171B ->175B	0.96023				
171B ->176B	-0.14289				
171B ->181B	0.12901				
Excited State 12:	2.890-A	2.3032 eV	538.32 nm	f=0.0119	<S**2>=1.838
170B ->175B	0.94137				
170B ->176B	0.21025				
170B ->181B	0.11162				
171B ->176B	-0.11312				
171B ->177B	0.15212				
Excited State 13:	2.895-A	2.3807 eV	520.79 nm	f=0.0139	<S**2>=1.846
170B ->176B	-0.57868				

170B ->177B	-0.10575	
171B ->176B	-0.13500	
171B ->177B	0.77148	
171B ->183B	-0.12220	
Excited State 17: 2.785-A	2.6275 eV	471.88 nm f=0.0299 <S**2>=1.689
172A ->173A	0.98616	
Excited State 18: 2.794-A	2.6675 eV	464.79 nm f=0.0186 <S**2>=1.702
171A ->173A	0.96979	
171A ->174A	-0.13344	
172A ->175A	0.13736	
Excited State 19: 2.745-A	2.7117 eV	457.23 nm f=0.0294 <S**2>=1.633
171A ->173A	-0.13516	
172A ->174A	0.18757	
172A ->175A	0.93834	
169B ->173B	0.13781	
Excited State 20: 2.695-A	2.7311 eV	453.98 nm f=0.0553 <S**2>=1.566
171A ->175A	0.64236	
172A ->174A	0.69504	
169B ->174B	-0.17901	
Excited State 21: 2.882-A	2.7557 eV	449.92 nm f=0.0106 <S**2>=1.826
171A ->174A	0.46161	
171A ->175A	-0.12823	
172A ->174A	0.14506	
168B ->173B	-0.47732	
168B ->174B	0.12980	
169B ->174B	0.67316	
Excited State 22: 2.808-A	2.7629 eV	448.75 nm f=0.0200 <S**2>=1.721
171A ->174A	0.74897	
171A ->175A	-0.11940	
168B ->173B	0.28422	
168B ->174B	0.31160	
169B ->173B	0.18765	
169B ->174B	-0.39161	
Excited State 25: 2.962-A	2.8919 eV	428.73 nm f=0.0105 <S**2>=1.944
171A ->174A	-0.10815	
171A ->175A	-0.10040	
172A ->174A	-0.11185	
168B ->172B	0.36206	
168B ->173B	-0.42205	
168B ->174B	0.43078	
169B ->172B	0.44977	
169B ->173B	-0.31464	
169B ->174B	-0.36140	

Ni(II)-Cl'

Excited State 5: 2.984-A	1.3803 eV	898.22 nm f=0.0276 <S**2>=1.976
171A ->174A	0.12563	
168B ->184B	-0.10263	
170B ->172B	-0.27706	
170B ->173B	-0.25099	
170B ->184B	0.17071	
171B ->172B	-0.25678	

171B ->173B	0.77119		
171B ->174B	-0.28866		
Excited State 6:	2.989-A	1.4141 eV	876.79 nm f=0.0654 <S**2>=1.984
172A ->173A	-0.10552		
170B ->172B	-0.18912		
170B ->173B	0.49566		
170B ->174B	-0.23240		
171B ->172B	0.61509		
171B ->173B	0.31347		
171B ->174B	0.19381		
171B ->181B	-0.13457		
171B ->184B	-0.27313		
171B ->185B	-0.11712		
Excited State 12:	2.883-A	2.3615 eV	525.02 nm f=0.0107 <S**2>=1.828
170B ->174B	0.11925		
170B ->176B	-0.10025		
171B ->174B	0.20050		
171B ->175B	0.88768		
171B ->176B	-0.23597		
171B ->177B	-0.23586		
171B ->182B	0.11104		
Excited State 19:	2.766-A	2.6578 eV	466.49 nm f=0.0521 <S**2>=1.662
171A ->174A	0.37349		
172A ->173A	-0.29863		
172A ->174A	-0.38005		
170B ->175B	-0.35836		
170B ->176B	0.64576		
171B ->177B	-0.11110		
Excited State 20:	2.759-A	2.6711 eV	464.17 nm f=0.0824 <S**2>=1.653
171A ->173A	0.11298		
171A ->174A	-0.36255		
172A ->173A	0.26554		
172A ->174A	0.43406		
170B ->175B	0.14214		
170B ->176B	0.69578		
171B ->177B	-0.14800		
Excited State 26:	2.743-A	3.0443 eV	407.26 nm f=0.0162 <S**2>=1.631
170A ->174A	0.10966		
171A ->173A	-0.17579		
171A ->174A	0.36548		
171A ->175A	0.12496		
172A ->173A	0.43516		
172A ->174A	0.11602		
172A ->175A	-0.29897		
168B ->172B	-0.35236		
168B ->173B	-0.27721		
169B ->172B	0.12617		
169B ->174B	-0.34692		
170B ->172B	-0.10561		
170B ->173B	-0.12408		
171B ->173B	-0.10407		
171B ->174B	0.10646		

171B ->179B 0.11586

Ni(I)-Br

Excited State 6: 3.031-A 1.4524 eV 853.63 nm f=0.0773 <S**2>=2.047

181A ->183A -0.13150
179B ->181B 0.35284
179B ->182B 0.30355
179B ->183B 0.18881
180B ->181B -0.46853
180B ->182B 0.58789
180B ->190B 0.15157
180B ->193B 0.27637
180B ->194B 0.11632

Excited State 18: 2.615-A 2.6113 eV 474.80 nm f=0.0812 <S**2>=1.459

180A ->182A 0.70051
180A ->183A 0.36339
180A ->184A 0.18118
181A ->182A 0.34752
181A ->183A -0.11013
179B ->184B 0.31116
179B ->185B -0.16956
180B ->185B 0.10872

Excited State 19: 2.861-A 2.6351 eV 470.52 nm f=0.0114 <S**2>=1.796

180A ->182A 0.12352
181A ->183A -0.12646
179B ->185B 0.86976
179B ->186B -0.17576
180B ->184B 0.19696
180B ->186B 0.32752

Excited State 22: 2.826-A 2.9140 eV 425.47 nm f=0.0171 <S**2>=1.746

180A ->183A -0.31093
181A ->182A 0.18378
181A ->183A 0.15858
177B ->181B 0.78142
177B ->183B 0.26109
177B ->193B -0.12825
178B ->183B -0.16515
179B ->182B 0.11330