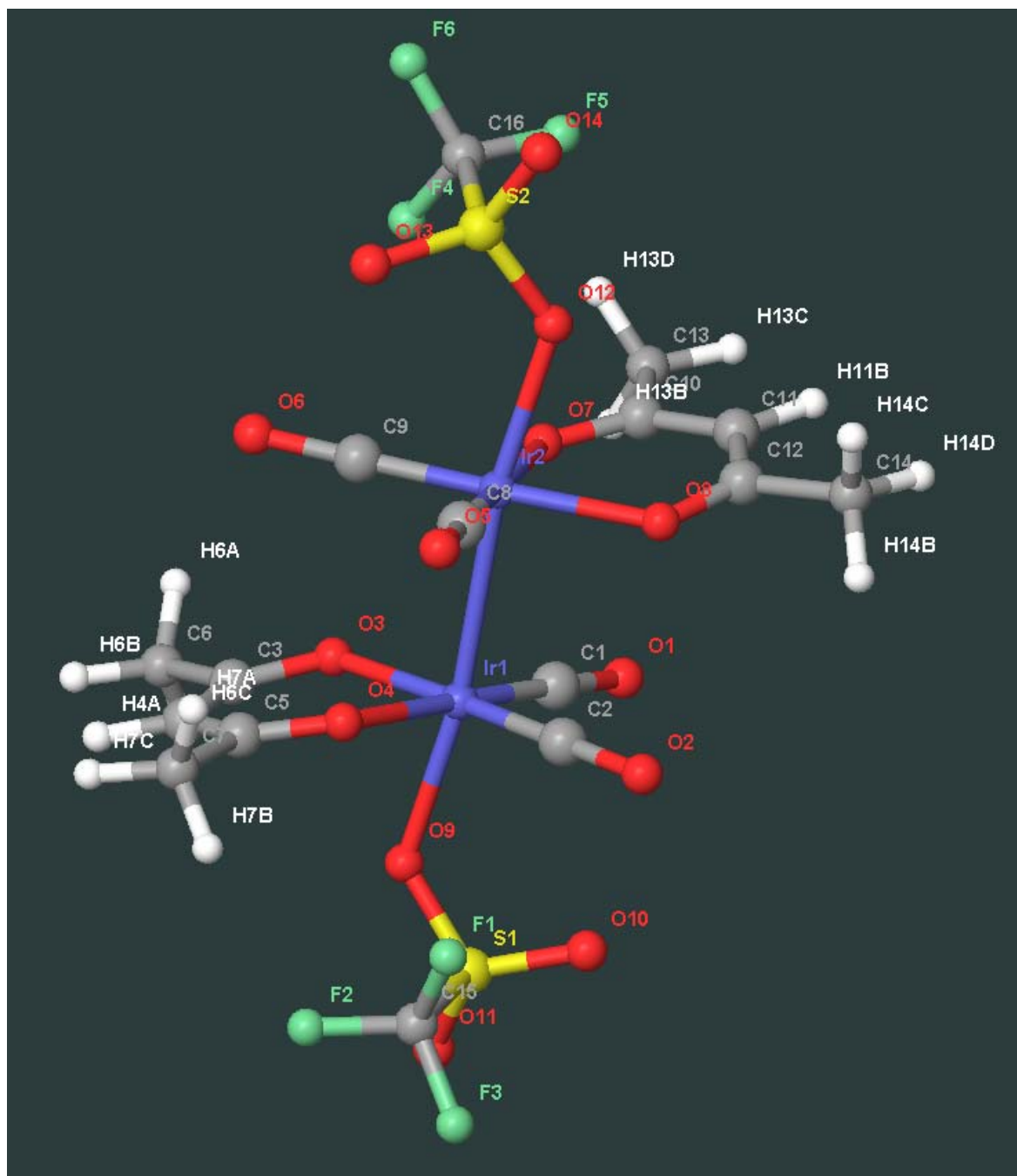




```

+-----+
| Jaguar version 7.0, release 207
|
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+-----+

```

```

basis set:          lacv3p**++
net molecular charge: 0
multiplicity:       1

```

This run will use ECP on 2 atoms
number of basis functions.... 1022

Final geometry:

	angstroms		
atom	x	y	z
Ir1	5.7007545686	4.9151182841	3.5012469294
Ir2	3.8764658271	2.9141712731	3.1142218584
S1	8.2942491126	7.0203142198	3.3489137737
S2	1.1556530745	0.9791368316	2.9036292124
F1	7.0094575113	7.4149492330	1.0573814563
F2	6.9468800475	9.1164870600	2.4086419421
F3	8.7689806751	8.6699985107	1.3062766774
F4	1.4941447128	1.2490584874	5.5247398421
F5	1.7893570611	-0.7793450359	4.7985486627
F6	-0.2224037397	0.0284277102	4.9808193654
O1	7.5715377912	3.0541547476	4.9823091718
O2	6.8543420950	4.2156358862	0.7824440435
O3	4.8864691795	5.4818566262	5.3181846888
O4	4.4542343340	6.2860134406	2.5785416496
O5	2.8561098997	4.2372022921	0.5869978065
O6	1.9359706520	4.4316544045	4.8839485925
O7	4.5487788774	1.8867493933	4.7786886605
O8	5.1980794179	1.8121385651	1.9639880796
O9	6.9328448366	6.6697517410	3.9712027863
O10	8.9073606120	5.8609501327	2.6991633214
O11	9.0793890798	7.8630507412	4.2313657946
O12	2.6823045520	1.1046636467	2.7759452266
O13	0.5067260992	2.2907714533	2.9377826800
O14	0.6334175755	-0.0714207709	2.0499625183
C1	6.8600622669	3.7231149052	4.4049944612
C2	6.4481223581	4.4613692362	1.8103924950
C3	4.2861333237	6.5971144006	5.5299176391
C4	3.8095491351	7.4735166852	4.5485798093
H4A	3.3076073654	8.3664073542	4.8910953341
C5	3.8752636797	7.2727065028	3.1685080000
C6	4.0950420264	6.9195306493	6.9838788209
H6A	3.6567448061	6.0611913923	7.4975875094
H6B	3.4691758292	7.7982054018	7.1313739479
H6C	5.0783731945	7.1004679442	7.4287514559
C7	3.2263475659	8.2473785321	2.2271715468
H7A	2.5343910401	7.7167017430	1.5683153728
H7B	3.9982059990	8.6940004361	1.5943033881
H7C	2.6934965775	9.0353690788	2.7569367441
C8	3.2369685194	3.7774266952	1.5507167893
C9	2.6550109711	3.8736750659	4.2094827024
C10	5.1823042217	0.7690281459	4.7503366861
C11	5.7169291222	0.1593080578	3.6118483475
H11B	6.2070000733	-0.7932649132	3.7498188023
C12	5.7144125363	0.6891685091	2.3181480333
C13	5.3411799939	0.1272547069	6.0992239403
H13B	5.8321676575	0.8278703195	6.7793930715
H13C	5.9165978392	-0.7956930135	6.0492225259
H13D	4.3499585649	-0.0835804688	6.5095686180
C14	6.3551453415	-0.0681240007	1.1907814133
H14B	6.9667543981	0.6059747542	0.5880575636
H14C	5.5594007714	-0.4530437908	0.5447352659
H14D	6.9575715138	-0.9030842455	1.5452976752
C15	7.7277252601	8.1341248997	1.9404544224
C16	1.0377928145	0.3206352204	4.6630799297

Stoichiometry: Ir2C16H14S20I4F6
Molecular Point Group: C1

Point Group used: C1 (symmetry turned off)

bond lengths (angstroms):

Ir1	-Ir2	:	2.735253	Ir1	-O3	:	2.070149
Ir1	-O4	:	2.069916	Ir1	-O9	:	2.194913
Ir1	-C1	:	1.892518	Ir1	-C2	:	1.903532
Ir2	-O7	:	2.068345	Ir2	-O8	:	2.069825
Ir2	-O12	:	2.194258	Ir2	-C8	:	1.897028
Ir2	-C9	:	1.900578	S1	-O9	:	1.537387
S1	-O10	:	1.463628	S1	-O11	:	1.450990
S1	-C15	:	1.882892	S2	-O12	:	1.537116
S2	-O13	:	1.463782	S2	-O14	:	1.450913
S2	-C16	:	1.882334	F1	-C15	:	1.346455
F2	-C15	:	1.339386	F3	-C15	:	1.331749
F4	-C16	:	1.346360	F5	-C16	:	1.339088
F6	-C16	:	1.332081	O1	-C1	:	1.134459
O2	-C2	:	1.132289	O3	-C3	:	1.284147
O4	-C5	:	1.287179	O5	-C8	:	1.133667
O6	-C9	:	1.132812	O7	-C10	:	1.285091
O8	-C12	:	1.285726	C3	-C4	:	1.399370
C3	-C6	:	1.501490	C4	-H4A	:	1.080054
C4	-C5	:	1.396152	C5	-C7	:	1.502395
C6	-H6A	:	1.092130	C6	-H6B	:	1.088822
C6	-H6C	:	1.094345	C7	-H7A	:	1.092938
C7	-H7B	:	1.093508	C7	-H7C	:	1.088811
C10	-C11	:	1.397762	C10	-C13	:	1.502202
C11	-H11B	:	1.080093	C11	-C12	:	1.398005
C12	-C14	:	1.501661	C13	-H13B	:	1.092960
C13	-H13C	:	1.088778	C13	-H13D	:	1.093323
C14	-H14B	:	1.091673	C14	-H14C	:	1.094874
C14	-H14D	:	1.088925				

bond angles:

O3	-Ir1	-Ir2	:	93.561255	O4	-Ir1	-Ir2	:	91.133145
O4	-Ir1	-O3	:	88.455928	O9	-Ir1	-Ir2	:	171.683049
O9	-Ir1	-O3	:	79.282109	O9	-Ir1	-O4	:	84.493567
C1	-Ir1	-Ir2	:	90.880519	C1	-Ir1	-O3	:	89.671069
C1	-Ir1	-O4	:	177.331171	C1	-Ir1	-O9	:	93.290603
C2	-Ir1	-Ir2	:	87.810521	C2	-Ir1	-O3	:	177.882716
C2	-Ir1	-O4	:	89.905351	C2	-Ir1	-O9	:	99.227340
C2	-Ir1	-C1	:	91.921727	O7	-Ir2	-Ir1	:	91.875272
O8	-Ir2	-Ir1	:	92.422231	O8	-Ir2	-O7	:	88.577673
O12	-Ir2	-Ir1	:	171.134460	O12	-Ir2	-O7	:	83.760962
O12	-Ir2	-O8	:	79.790480	C8	-Ir2	-Ir1	:	90.490441
C8	-Ir2	-O7	:	177.275365	C8	-Ir2	-O8	:	89.972388
C8	-Ir2	-O12	:	93.712233	C9	-Ir2	-Ir1	:	88.726658
C9	-Ir2	-O7	:	89.766649	C9	-Ir2	-O8	:	178.014495
C9	-Ir2	-O12	:	98.940590	C9	-Ir2	-C8	:	91.637549
O10	-S1	-O9	:	111.716589	O11	-S1	-O9	:	111.434262
O11	-S1	-O10	:	120.223906	C15	-S1	-O9	:	99.859257
C15	-S1	-O10	:	105.220522	C15	-S1	-O11	:	105.912589
O13	-S2	-O12	:	111.658065	O14	-S2	-O12	:	111.576407
O14	-S2	-O13	:	120.196465	C16	-S2	-O12	:	99.694846
C16	-S2	-O13	:	105.301787	C16	-S2	-O14	:	105.909358
C3	-O3	-Ir1	:	124.497100	C5	-O4	-Ir1	:	125.046647
C10	-O7	-Ir2	:	125.066735	C12	-O8	-Ir2	:	124.637002
S1	-O9	-Ir1	:	126.349009	S2	-O12	-Ir2	:	126.516519
O1	-C1	-Ir1	:	176.962618	O2	-C2	-Ir1	:	177.446635
C4	-C3	-O3	:	125.980096	C6	-C3	-O3	:	113.931874
C6	-C3	-C4	:	120.082519	H4A	-C4	-C3	:	116.977300
C5	-C4	-C3	:	125.950409	C5	-C4	-H4A	:	117.017113

C4	-C5	-O4	: 125.766761	C7	-C5	-O4	: 113.853496
C7	-C5	-C4	: 120.377894	H6A	-C6	-C3	: 109.742637
H6B	-C6	-C3	: 112.186150	H6B	-C6	-H6A	: 109.867158
H6C	-C6	-C3	: 108.348590	H6C	-C6	-H6A	: 107.418011
H6C	-C6	-H6B	: 109.147684	H7A	-C7	-C5	: 109.643396
H7B	-C7	-C5	: 108.827128	H7B	-C7	-H7A	: 107.236338
H7C	-C7	-C5	: 112.088034	H7C	-C7	-H7A	: 109.564697
H7C	-C7	-H7B	: 109.356352	O5	-C8	-Ir2	: 176.798317
O6	-C9	-Ir2	: 178.620976	C11	-C10	-O7	: 125.868578
C13	-C10	-O7	: 113.822751	C13	-C10	-C11	: 120.302659
H11B	-C11	-C10	: 117.014231	C12	-C11	-C10	: 125.995369
C12	-C11	-H11B	: 116.954947	C11	-C12	-O8	: 125.920376
C14	-C12	-O8	: 113.892324	C14	-C12	-C11	: 120.187299
H13B	-C13	-C10	: 109.417885	H13C	-C13	-C10	: 112.136214
H13C	-C13	-H13B	: 109.545505	H13D	-C13	-C10	: 108.875548
H13D	-C13	-H13B	: 107.296874	H13D	-C13	-H13C	: 109.445654
H14B	-C14	-C12	: 110.007333	H14C	-C14	-C12	: 108.069789
H14C	-C14	-H14B	: 107.367062	H14D	-C14	-C12	: 112.229889
H14D	-C14	-H14B	: 110.076708	H14D	-C14	-H14C	: 108.942304
F1	-C15	-S1	: 109.581201	F2	-C15	-S1	: 110.352488
F2	-C15	-F1	: 108.059829	F3	-C15	-S1	: 111.038132
F3	-C15	-F1	: 108.644634	F3	-C15	-F2	: 109.096077
F4	-C16	-S2	: 109.618230	F5	-C16	-S2	: 110.290785
F5	-C16	-F4	: 108.147641	F6	-C16	-S2	: 111.034607
F6	-C16	-F4	: 108.618921	F6	-C16	-F5	: 109.064986

SCF type: DFT=Becke_3_Parameter/HF+Slater+Becke88+VWN+LYP (B3LYP)

SCFE: SCF energy: DFT(b3lyp) -3276.96677944305 hartrees iterations: 13

Thermodynamic properties calculated assuming an ideal gas

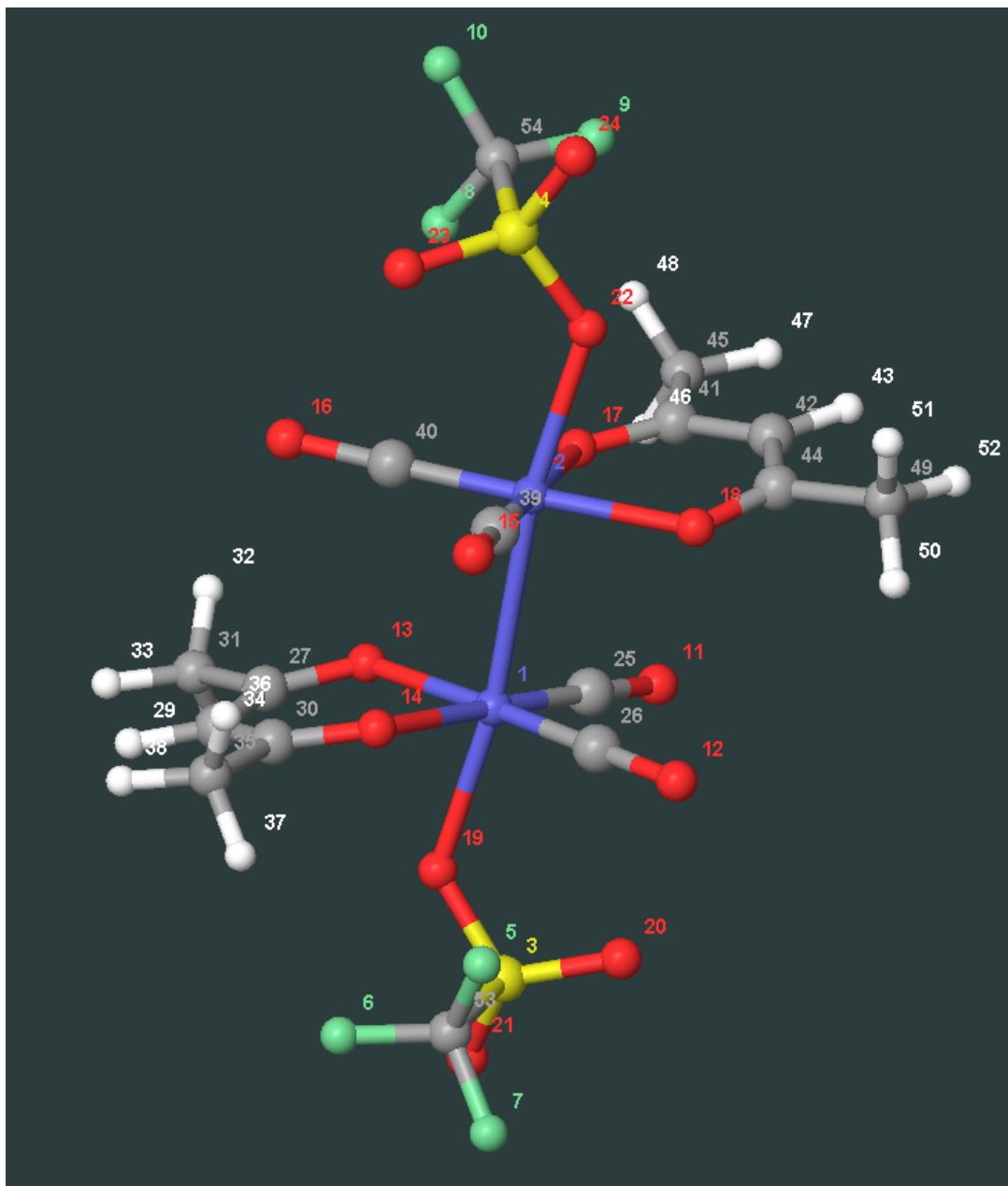
In the table below, the units for temperature are kelvins, the units for U, H, and G are kcal/mol and the units for Cv and S are cal/(mol K)

The zero point energy (ZPE): 199.830 kcal/mol
is not included in U, H, or G in the table below

T = 298.15 K

	U	Cv	S	H	G
	-----	-----	-----	-----	-----
trans.	0.889	2.981	46.563	1.481	-12.402
rot.	0.889	2.981	38.168	0.889	-10.491
vib.	26.637	150.195	190.220	26.637	-30.077
elec.	0.000	0.000	0.000	0.000	0.000
total	28.414	156.157	274.951	29.007	-52.970

Total internal energy, Utot (SCFE + ZPE + U): -3276.603050 hartrees
Total enthalpy, Htot (Utot + pV): -3276.602106 hartrees
Total Gibbs free energy, Gtot (Htot - T*S): -3276.732743 hartrees



***** Jaguar NBO 5.0 *****
 NATURAL ATOMIC ORBITAL AND
 NATURAL BOND ORBITAL ANALYSIS

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Cite this program as:

NBO 5.0. E. D. Glendening, J. K. Badenhoop, A. E. Reed,
 J. E. Carpenter, J. A. Bohmann, C. M. Morales, and F. Weinhold
 (Theoretical Chemistry Institute, University of Wisconsin,
 Madison, WI, 2001); <http://www.chem.wisc.edu/~nbo5>

Job title: Ir2_ACAC_2_CO_4_OTf_2_rph448_01: Input generated by Jaguar v7.0

Summary of Natural Population Analysis:

Atom No	Natural Charge	Natural Population			
		Core	Valence	Rydberg	Total
Ir 1	0.61698	67.97766	8.34686	0.05850	76.38302
Ir 2	0.61681	67.97778	8.34697	0.05845	76.38319
S 3	2.21798	9.99887	3.55790	0.22525	13.78202
S 4	2.21809	9.99887	3.55784	0.22520	13.78191
F 5	-0.34768	1.99991	7.34006	0.00771	9.34768
F 6	-0.33626	1.99991	7.33036	0.00600	9.33626
F 7	-0.32473	1.99991	7.31889	0.00593	9.32473
F 8	-0.34761	1.99991	7.34003	0.00766	9.34761
F 9	-0.33583	1.99991	7.32992	0.00599	9.33583
F 10	-0.32534	1.99991	7.31951	0.00592	9.32534
O 11	-0.38786	1.99973	6.36547	0.02266	8.38786
O 12	-0.37773	1.99973	6.35348	0.02452	8.37773
O 13	-0.66241	1.99973	6.63782	0.02486	8.66241
O 14	-0.67775	1.99973	6.65056	0.02747	8.67775
O 15	-0.37913	1.99973	6.35659	0.02281	8.37913
O 16	-0.38498	1.99973	6.36088	0.02437	8.38498
O 17	-0.66585	1.99973	6.63994	0.02618	8.66585
O 18	-0.67230	1.99973	6.64598	0.02659	8.67230
O 19	-0.96979	1.99983	6.94527	0.02469	8.96979
O 20	-0.92528	1.99981	6.91221	0.01326	8.92528
O 21	-0.87617	1.99980	6.86384	0.01253	8.87617
O 22	-0.97004	1.99983	6.94555	0.02466	8.97004
O 23	-0.92593	1.99981	6.91286	0.01326	8.92593
O 24	-0.87611	1.99980	6.86380	0.01251	8.87611
C 25	0.64524	1.99958	3.29452	0.06066	5.35476
C 26	0.63456	1.99957	3.30455	0.06132	5.36544
C 27	0.53538	1.99925	3.43323	0.03214	5.46462
C 28	-0.45723	1.99899	4.44441	0.01382	6.45723
H 29	0.22689	0.00000	0.77199	0.00112	0.77311
C 30	0.52695	1.99924	3.44238	0.03142	5.47305
C 31	-0.63856	1.99937	4.62774	0.01145	6.63856
H 32	0.23572	0.00000	0.76318	0.00110	0.76428
H 33	0.21718	0.00000	0.78207	0.00074	0.78282
H 34	0.24354	0.00000	0.75542	0.00105	0.75646
C 35	-0.63800	1.99938	4.62711	0.01151	6.63800
H 36	0.23504	0.00000	0.76385	0.00110	0.76496
H 37	0.24290	0.00000	0.75586	0.00124	0.75710
H 38	0.21781	0.00000	0.78147	0.00072	0.78219
C 39	0.63943	1.99958	3.30064	0.06035	5.36057
C 40	0.64099	1.99957	3.29774	0.06170	5.35901
C 41	0.52854	1.99925	3.44006	0.03215	5.47146
C 42	-0.45870	1.99899	4.44588	0.01382	6.45870
H 43	0.22682	0.00000	0.77206	0.00113	0.77318
C 44	0.53278	1.99925	3.43680	0.03117	5.46722
C 45	-0.63829	1.99937	4.62732	0.01160	6.63829
H 46	0.23592	0.00000	0.76297	0.00112	0.76408
H 47	0.21717	0.00000	0.78209	0.00074	0.78283
H 48	0.24212	0.00000	0.75664	0.00124	0.75788
C 49	-0.63899	1.99937	4.62827	0.01134	6.63899
H 50	0.23509	0.00000	0.76381	0.00111	0.76491
H 51	0.24532	0.00000	0.75369	0.00100	0.75468
H 52	0.21783	0.00000	0.78144	0.00073	0.78217
C 53	0.82267	1.99983	3.09891	0.07858	5.17733
C 54	0.82281	1.99983	3.09871	0.07865	5.17719
=====					
* Total *	0.00000	227.93979	232.53740	1.52281	462.00000

Natural Population

Effective Core	120.00000
Core	107.93979 (99.9442% of 108)
Valence	232.53740 (99.3750% of 234)
Natural Minimal Basis	460.47719 (99.6704% of 462)
Natural Rydberg Basis	1.52281 (0.3296% of 462)

NATURAL BOND ORBITAL ANALYSIS:

Cycle	Occ. Thresh.	Occupancies		Lewis Structure				Low occ (L)	High occ (NL)	Dev
		Lewis	Non-Lewis	CR	BD	3C	LP			
1(1)	1.90	447.61938	14.38062	54	79	0	38	31	43	0.68
2(2)	1.90	447.78461	14.21539	54	78	0	39	32	41	0.94
3(3)	1.90	448.01598	13.98402	54	79	0	38	32	41	0.68
4(4)	1.90	448.18377	13.81623	54	78	0	39	33	39	0.94
5(5)	1.90	448.41059	13.58941	54	79	0	38	33	39	0.38
6(6)	1.90	448.41059	13.58941	54	79	0	38	33	39	0.38
7(1)	1.80	451.41214	10.58786	54	69	0	48	15	33	0.50
8(2)	1.80	451.87462	10.12538	54	67	0	50	16	33	0.38
9(3)	1.80	451.87462	10.12538	54	67	0	50	16	33	0.38
10(1)	1.70	452.44586	9.55414	54	63	0	54	6	31	0.38
11(2)	1.70	452.44586	9.55414	54	63	0	54	6	31	0.38
12(1)	1.60	452.82707	9.17293	54	59	0	58	0	29	0.38
13(2)	1.60	452.84108	9.15892	54	59	0	58	0	29	0.37
14(3)	1.60	452.84013	9.15987	54	59	0	58	0	29	0.37
15(4)	1.60	452.84108	9.15892	54	59	0	58	0	29	0.37
16(1)	1.50	450.47145	11.52855	54	54	0	63	0	29	1.21
17(2)	1.50	450.47145	11.52855	54	54	0	63	0	29	1.21
18(1)	1.60	452.84108	9.15892	54	59	0	58	0	29	0.37

Strongly delocalized structure accepted

4 low occupancy (<1.9990e) core orbitals found on Ir 1
 4 low occupancy (<1.9990e) core orbitals found on Ir 2
 1 low occupancy (<1.9990e) core orbital found on C28
 1 low occupancy (<1.9990e) core orbital found on C42

Effective Core	120.00000
Core	107.93928 (99.944% of 108)
Valence Lewis	224.90180 (96.112% of 234)
=====	
Total Lewis	452.84108 (98.018% of 462)

Valence non-Lewis	7.93580 (1.718% of 462)
Rydberg non-Lewis	1.22312 (0.265% of 462)
=====	
Total non-Lewis	9.15892 (1.982% of 462)

(Occupancy) Bond orbital/ Coefficients/ Hybrids

1. (1.83044) BD (1)Ir 1-Ir 2
 (50.00%) 0.7071*Ir 1 s(27.78%)p 0.03(0.73%)d 2.57(71.49%)
 0.0008 0.5268 -0.0142 0.0091 -0.0008
 0.0013 -0.0004 0.0011 -0.0598 0.0021

				0.0080	0.0007	-0.0598	-0.0027	0.0023
				0.0001	-0.0098	0.0000	-0.0003	0.7130
				0.0423	-0.0106	-0.0026	0.1618	0.0091
				-0.0021	-0.0003	0.1563	0.0142	-0.0048
				-0.0006	-0.1426	-0.0035	0.0066	0.0013
				-0.3642	-0.0247	0.0061	0.0016	
(50.00%)	0.7071*Ir	2	s(27.77%)p 0.03(0.74%)d 2.57(71.49%)					
				0.0008	0.5267	-0.0138	0.0092	-0.0009
				0.0013	-0.0004	-0.0011	0.0609	-0.0019
				-0.0079	-0.0007	0.0593	0.0020	-0.0019
				-0.0003	0.0100	0.0012	-0.0005	0.7224
				0.0412	-0.0107	-0.0029	0.1095	0.0087
				-0.0008	0.0004	0.1491	0.0122	-0.0008
				-0.0001	-0.1495	-0.0040	0.0066	0.0013
				-0.3654	-0.0267	0.0075	0.0013	
2. (1.95572)	BD (1)Ir	1- C 25						
(32.74%)	0.5722*Ir	1	s(35.57%)p 0.00(0.08%)d 1.81(64.34%)					
				-0.0006	0.5964	0.0016	-0.0003	0.0011
				0.0019	0.0000	-0.0002	-0.0026	-0.0033
				0.0159	0.0005	-0.0162	0.0018	-0.0133
				0.0002	0.0079	-0.0025	0.0077	-0.5255
				-0.0095	-0.0078	-0.0032	0.3891	0.0159
				0.0066	0.0009	-0.4304	-0.0113	-0.0083
				-0.0003	-0.0060	-0.0068	0.0024	0.0005
				-0.1719	-0.0191	0.0040	0.0002	
(67.26%)	0.8201* C 25	s(61.54%)p 0.62(38.43%)d 0.00(0.03%)						
				0.0002	0.7835	-0.0388	0.0035	-0.0008
				0.0000	-0.3811	-0.0276	0.0110	0.0004
				0.3741	0.0286	-0.0096	-0.0013	-0.3109
				-0.0225	0.0091	0.0002	-0.0123	0.0071
				-0.0083	-0.0015	-0.0027		
3. (1.95423)	BD (1)Ir	1- C 26						
(32.48%)	0.5699*Ir	1	s(36.02%)p 0.00(0.08%)d 1.77(63.90%)					
				-0.0004	0.6001	0.0017	0.0004	0.0022
				0.0018	-0.0001	-0.0002	-0.0064	-0.0039
				0.0106	0.0005	-0.0081	-0.0002	-0.0072
				0.0003	-0.0148	0.0037	-0.0180	-0.1107
				0.0079	-0.0008	-0.0020	-0.5054	-0.0166
				-0.0082	-0.0009	0.2997	0.0245	-0.0004
				0.0008	0.1022	-0.0032	0.0008	0.0004
				0.5194	0.0106	0.0116	0.0024	
(67.52%)	0.8217* C 26	s(61.68%)p 0.62(38.29%)d 0.00(0.03%)						
				0.0002	0.7844	-0.0380	-0.0036	-0.0006
				0.0000	-0.2265	-0.0179	0.0071	0.0006
				0.1424	0.0111	-0.0028	-0.0008	0.5559
				0.0395	-0.0165	-0.0011	-0.0048	-0.0093
				0.0073	0.0012	0.0110		
4. (1.95489)	BD (1)Ir	2- C 39						
(32.63%)	0.5712*Ir	2	s(35.56%)p 0.00(0.09%)d 1.81(64.36%)					
				-0.0006	0.5963	0.0020	-0.0002	0.0014
				0.0018	0.0000	0.0002	0.0070	0.0019
				-0.0106	-0.0005	0.0122	-0.0009	0.0107
				0.0001	-0.0127	0.0046	-0.0156	-0.1987
				0.0035	-0.0031	-0.0026	0.3961	0.0174
				0.0031	0.0021	-0.5433	-0.0232	-0.0062
				-0.0008	-0.0461	-0.0075	0.0012	0.0001
				0.3857	0.0030	0.0113	0.0011	
(67.37%)	0.8208* C 39	s(61.60%)p 0.62(38.37%)d 0.00(0.03%)						
				0.0002	0.7839	-0.0388	-0.0034	-0.0009
				0.0001	0.2061	0.0154	-0.0073	-0.0007
				-0.2638	-0.0204	0.0067	0.0011	0.5189
				0.0368	-0.0158	-0.0001	-0.0060	0.0068
				-0.0119	-0.0015	0.0075		

5. (1.95461) BD (1)Ir 2- C 40
 (32.56%) 0.5706*Ir 2 s(36.05%)p 0.00(0.08%)d 1.77(63.87%)
 -0.0005 0.6004 0.0012 0.0004 0.0018
 0.0018 -0.0001 0.0002 0.0029 0.0053
 -0.0146 -0.0006 0.0129 -0.0008 0.0125
 0.0000 0.0111 -0.0011 0.0106 -0.4389
 -0.0055 -0.0055 -0.0031 -0.5010 -0.0161
 -0.0116 -0.0004 0.4150 0.0217 0.0029
 0.0018 0.1422 -0.0043 0.0042 -0.0002
 -0.0369 -0.0158 0.0040 0.0008
 (67.44%) 0.8212* C 40 s(61.62%)p 0.62(38.35%)d 0.00(0.03%)
 0.0002 0.7840 -0.0382 0.0039 -0.0007
 0.0000 0.3899 0.0290 -0.0107 -0.0010
 -0.3077 -0.0231 0.0070 0.0009 -0.3667
 -0.0269 0.0102 0.0009 -0.0108 -0.0100
 0.0081 0.0007 0.0001

20. (1.99833) BD (1) O 11- C 25
 (73.65%) 0.8582* O 11 s(0.12%)p99.99(99.67%)d 1.77(0.21%)
 0.0000 -0.0343 0.0013 -0.0004 0.0002
 0.0000 -0.1571 0.0011 0.0002 0.0003
 0.4996 -0.0025 -0.0034 -0.0004 0.8499
 -0.0050 -0.0030 -0.0005 -0.0180 -0.0214
 0.0115 -0.0087 -0.0331
 (26.35%) 0.5133* C 25 s(0.15%)p99.99(99.31%)d 3.68(0.54%)
 0.0000 -0.0382 -0.0038 -0.0001 0.0007
 0.0000 -0.2048 0.0035 -0.0028 -0.0016
 0.5441 -0.0044 0.0047 0.0013 0.8092
 -0.0086 0.0115 0.0012 0.0333 0.0311
 -0.0162 0.0149 0.0536

21. (1.99677) BD (2) O 11- C 25
 (72.90%) 0.8538* O 11 s(11.40%)p 7.75(88.36%)d 0.02(0.24%)
 0.0000 0.3372 -0.0179 0.0013 -0.0003
 -0.0003 0.4301 -0.0002 -0.0083 0.0000
 0.7579 -0.0061 -0.0016 -0.0004 -0.3523
 0.0040 -0.0021 0.0004 -0.0167 0.0054
 -0.0320 -0.0321 0.0040
 (27.10%) 0.5206* C 25 s(9.17%)p 9.85(90.38%)d 0.05(0.45%)
 0.0000 0.2942 0.0719 -0.0027 0.0034
 -0.0001 0.8941 -0.0360 0.0060 0.0022
 0.3185 0.0198 0.0052 -0.0019 0.0263
 -0.0198 -0.0032 0.0011 -0.0115 0.0245
 0.0215 0.0562 -0.0124

22. (1.99548) BD (3) O 11- C 25
 (69.58%) 0.8341* O 11 s(34.80%)p 1.87(64.90%)d 0.01(0.30%)
 0.0000 -0.5893 0.0262 -0.0024 0.0007
 0.0006 0.7798 -0.0076 0.0032 -0.0009
 -0.0967 0.0060 -0.0084 0.0002 0.1771
 -0.0048 0.0052 -0.0003 0.0343 -0.0324
 0.0155 -0.0205 0.0115
 (30.42%) 0.5516* C 25 s(30.01%)p 2.33(69.80%)d 0.01(0.19%)
 0.0001 -0.5357 -0.1145 0.0043 -0.0028
 0.0001 -0.0391 0.0405 0.0110 -0.0020
 0.6734 -0.0401 -0.0023 0.0012 -0.4882
 0.0365 0.0031 -0.0019 0.0115 -0.0054
 0.0289 0.0298 -0.0075

23. (1.99700) BD (1) O 12- C 26
 (72.48%) 0.8513* O 12 s(11.86%)p 7.41(87.89%)d 0.02(0.25%)
 0.0000 0.3439 -0.0186 0.0011 -0.0004
 -0.0003 0.6254 -0.0029 -0.0051 -0.0003
 0.4419 -0.0044 -0.0026 0.0000 0.5408
 -0.0068 0.0040 -0.0004 -0.0029 0.0116
 0.0271 -0.0145 0.0371
 (27.52%) 0.5246* C 26 s(9.92%)p 9.04(89.66%)d 0.04(0.42%)

			0.0000	0.3063	0.0733	0.0031	0.0020
			0.0001	0.8930	-0.0272	0.0097	0.0026
			0.2787	0.0037	0.0030	-0.0020	-0.1385
			0.0366	0.0051	-0.0018	-0.0051	-0.0527
			-0.0244	0.0250	-0.0142		
24.	(1.99752)	BD (2) O 12- C 26					
	(73.04%)	0.8546* O 12	s(2.35%)p41.51(97.43%)d 0.09(0.22%)				
			0.0000	0.1530	-0.0079	0.0008	0.0000
			-0.0001	-0.4858	0.0031	-0.0002	0.0006
			0.8317	-0.0058	-0.0040	-0.0003	-0.2157
			0.0000	0.0029	0.0000	-0.0194	-0.0192
			0.0344	0.0005	-0.0169		
	(26.96%)	0.5192* C 26	s(1.71%)p57.18(97.79%)d 0.29(0.50%)				
			0.0000	0.1272	0.0304	0.0017	0.0014
			0.0000	-0.3636	-0.0009	-0.0083	-0.0025
			0.7574	-0.0074	0.0100	0.0004	-0.5209
			0.0224	-0.0028	-0.0012	0.0266	0.0160
			-0.0449	0.0029	0.0452		
25.	(1.99545)	BD (3) O 12- C 26					
	(70.10%)	0.8373* O 12	s(32.96%)p 2.03(66.74%)d 0.01(0.30%)				
			0.0000	0.5734	-0.0276	0.0021	-0.0005
			-0.0006	-0.5566	0.0052	-0.0001	0.0005
			-0.2964	0.0008	0.0053	0.0000	0.5192
			-0.0083	0.0075	-0.0007	-0.0029	-0.0411
			-0.0019	0.0136	0.0333		
	(29.90%)	0.5468* C 26	s(27.55%)p 2.62(72.23%)d 0.01(0.22%)				
			-0.0001	0.5135	0.1089	0.0039	0.0036
			-0.0002	-0.1048	-0.0200	-0.0065	0.0014
			-0.5678	0.0186	-0.0033	-0.0003	-0.6201
			0.0595	0.0067	-0.0035	-0.0088	0.0107
			0.0370	-0.0138	0.0203		
28.	(1.99759)	BD (1) O 15- C 39					
	(72.95%)	0.8541* O 15	s(7.58%)p12.17(92.19%)d 0.03(0.23%)				
			0.0000	0.2749	-0.0139	0.0008	-0.0003
			-0.0003	-0.7458	0.0029	-0.0060	0.0003
			-0.4127	0.0038	-0.0006	0.0002	0.4420
			-0.0054	-0.0025	-0.0004	0.0055	-0.0184
			-0.0289	-0.0197	0.0269		
	(27.05%)	0.5201* C 39	s(6.25%)p14.91(93.27%)d 0.08(0.48%)				
			0.0000	0.2432	0.0582	0.0018	0.0023
			0.0001	-0.9478	0.0209	-0.0105	-0.0022
			-0.1654	-0.0095	-0.0033	0.0010	-0.0739
			0.0278	0.0044	-0.0013	-0.0206	0.0543
			0.0189	0.0290	-0.0141		
29.	(1.99760)	BD (2) O 15- C 39					
	(73.16%)	0.8553* O 15	s(4.41%)p21.62(95.37%)d 0.05(0.22%)				
			0.0000	-0.2097	0.0108	-0.0007	0.0001
			0.0002	-0.3744	0.0025	0.0002	0.0006
			0.8522	-0.0050	0.0019	-0.0005	0.2951
			0.0009	0.0044	0.0002	0.0216	-0.0130
			0.0314	0.0102	0.0223		
	(26.84%)	0.5181* C 39	s(3.32%)p28.94(96.17%)d 0.15(0.50%)				
			0.0000	-0.1771	-0.0430	-0.0014	-0.0024
			0.0001	-0.2178	-0.0073	-0.0058	-0.0012
			0.6619	0.0025	0.0094	0.0009	0.6894
			-0.0269	0.0038	0.0016	-0.0261	0.0020
			-0.0290	-0.0151	-0.0572		
30.	(1.99571)	BD (3) O 15- C 39					
	(69.60%)	0.8343* O 15	s(34.44%)p 1.89(65.26%)d 0.01(0.30%)				
			0.0000	0.5862	-0.0276	0.0025	-0.0004
			-0.0006	0.4993	-0.0049	0.0000	-0.0005
			0.1508	0.0028	0.0060	0.0001	0.6167
			-0.0099	-0.0058	-0.0007	-0.0110	0.0371

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-0.0153 0.0099 0.0346
( 30.40%) 0.5514* C 39 s( 29.70%)p 2.36( 70.11%)d 0.01( 0.20%)
-0.0001 0.5328 0.1143 0.0036 0.0034
-0.0002 0.0640 0.0212 0.0058 -0.0010
0.6764 -0.0303 0.0016 0.0008 -0.4844
0.0576 0.0081 -0.0023 -0.0072 -0.0098
-0.0372 -0.0199 0.0051

31. (1.99723) BD ( 1) 0 16- C 40
( 73.12%) 0.8551* O 16 s( 7.65%)p12.04( 92.12%)d 0.03( 0.23%)
0.0000 -0.2761 0.0160 -0.0008 0.0002
0.0003 0.3022 -0.0008 -0.0074 0.0000
0.9092 -0.0081 -0.0049 -0.0003 0.0546
-0.0017 0.0028 -0.0001 0.0247 -0.0016
-0.0299 0.0281 0.0044
( 26.88%) 0.5185* C 40 s( 6.16%)p15.16( 93.37%)d 0.08( 0.47%)
0.0000 -0.2403 -0.0618 0.0038 -0.0021
0.0000 0.6818 -0.0316 0.0049 0.0014
0.6131 0.0096 0.0062 -0.0023 -0.3019
0.0246 -0.0016 -0.0016 -0.0115 0.0333
0.0245 -0.0527 -0.0096

32. (1.99725) BD ( 2) 0 16- C 40
( 72.79%) 0.8531* O 16 s( 6.41%)p14.57( 93.36%)d 0.04( 0.23%)
0.0000 -0.2528 0.0133 -0.0009 0.0005
0.0003 0.2596 -0.0012 -0.0042 -0.0001
-0.2178 0.0009 0.0032 0.0002 0.9048
-0.0075 0.0004 -0.0005 -0.0082 0.0245
-0.0176 0.0020 -0.0362
( 27.21%) 0.5217* C 40 s( 5.38%)p17.49( 94.15%)d 0.09( 0.47%)
0.0000 -0.2265 -0.0502 0.0020 -0.0014
0.0000 0.6091 -0.0272 0.0043 0.0033
-0.4889 0.0185 -0.0045 -0.0029 0.5746
0.0046 0.0114 -0.0003 0.0373 -0.0087
0.0082 -0.0080 0.0554

33. (1.99521) BD ( 3) 0 16- C 40
( 70.09%) 0.8372* O 16 s( 32.95%)p 2.03( 66.75%)d 0.01( 0.30%)
0.0000 0.5734 -0.0260 0.0021 -0.0008
-0.0006 0.8070 -0.0072 0.0037 -0.0010
-0.0876 0.0038 -0.0075 0.0001 -0.0916
0.0038 -0.0070 0.0003 -0.0294 -0.0353
0.0126 0.0240 -0.0115
( 29.91%) 0.5469* C 40 s( 27.70%)p 2.60( 72.08%)d 0.01( 0.22%)
-0.0001 0.5149 0.1089 -0.0042 0.0031
-0.0001 0.0062 0.0365 0.0114 -0.0019
0.5316 -0.0321 -0.0027 0.0010 0.6587
-0.0423 -0.0018 0.0028 -0.0065 -0.0085
0.0309 -0.0253 0.0214

114. (1.86212) LP ( 1)Ir 1
s( 0.04%)p 0.40( 0.01%)d99.99( 99.95%)
0.0000 0.0190 0.0002 0.0006 -0.0001
0.0000 0.0001 -0.0004 0.0062 -0.0025
-0.0017 -0.0006 0.0048 -0.0034 -0.0002
0.0001 0.0073 -0.0003 -0.0031 0.1925
-0.0022 -0.0021 0.0008 -0.6431 0.0175
-0.0018 -0.0018 -0.7058 0.0123 -0.0016
-0.0009 0.0700 0.0006 0.0001 -0.0002
-0.2129 0.0002 -0.0018 0.0000

115. (1.84666) LP ( 2)Ir 1
s( 0.03%)p 1.60( 0.05%)d99.99( 99.93%)
-0.0007 0.0166 0.0024 -0.0016 -0.0004
0.0004 0.0001 -0.0016 0.0092 -0.0031
0.0014 -0.0014 0.0184 -0.0033 -0.0010
-0.0004 -0.0003 -0.0012 0.0012 0.1440
0.0057 -0.0017 0.0000 0.1666 -0.0022
0.0012 -0.0001 -0.0119 -0.0039 0.0010

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116. (1.79189) LP (3)Ir 1
 -0.0001 0.9747 -0.0195 0.0011 0.0016
 -0.0111 0.0019 0.0000 -0.0006
 s(0.04%)p 0.44(0.02%)d99.99(99.95%)
 0.0015 0.0156 -0.0104 0.0040 0.0002
 0.0004 0.0001 -0.0010 0.0098 -0.0023
 -0.0002 0.0008 -0.0068 0.0032 0.0000
 0.0005 -0.0019 0.0001 -0.0011 -0.3753
 -0.0050 0.0028 0.0012 -0.3524 -0.0005
 0.0012 0.0006 0.4480 -0.0019 -0.0023
 -0.0003 0.1126 -0.0082 -0.0001 -0.0003
 -0.7217 0.0070 -0.0007 0.0010
 117. (1.86046) LP (1)Ir 2
 s(0.01%)p 1.00(0.01%)d99.99(99.98%)
 0.0001 0.0078 -0.0015 0.0021 0.0006
 -0.0001 -0.0001 0.0001 -0.0008 0.0014
 0.0003 0.0002 -0.0018 0.0023 0.0008
 -0.0003 -0.0087 -0.0004 0.0035 0.1683
 -0.0016 -0.0015 0.0006 -0.6142 0.0166
 -0.0001 -0.0022 -0.6859 0.0122 -0.0032
 -0.0007 0.2661 -0.0039 -0.0001 0.0005
 -0.2291 0.0074 -0.0024 -0.0005
 118. (1.84825) LP (2)Ir 2
 s(0.05%)p 1.07(0.05%)d99.99(99.90%)
 -0.0007 0.0218 0.0025 -0.0015 -0.0006
 0.0004 0.0002 0.0016 -0.0117 0.0037
 -0.0006 0.0015 -0.0186 0.0042 0.0007
 0.0004 0.0005 0.0004 -0.0012 0.1309
 0.0067 -0.0024 0.0001 0.2829 -0.0074
 0.0012 0.0009 0.1304 -0.0016 -0.0005
 0.0000 0.9396 -0.0168 0.0004 0.0014
 0.0396 0.0009 0.0005 -0.0006
 119. (1.79265) LP (3)Ir 2
 s(0.04%)p 0.49(0.02%)d99.99(99.95%)
 0.0014 0.0153 -0.0101 0.0043 0.0002
 0.0004 0.0001 0.0010 -0.0101 0.0021
 0.0000 -0.0010 0.0069 -0.0035 0.0003
 0.0002 -0.0018 0.0017 0.0004 -0.4424
 -0.0048 0.0033 0.0013 0.3488 -0.0026
 -0.0016 -0.0008 -0.1450 -0.0004 0.0002
 0.0005 0.0105 -0.0080 0.0013 -0.0002
 -0.8129 0.0074 -0.0006 0.0012
 1008. (0.47348) BD*(1)Ir 1-Ir 2
 (50.00%) 0.7071*Ir 1 s(27.78%)p 0.03(0.73%)d 2.57(71.49%)
 -0.0008 -0.5268 0.0142 -0.0091 0.0008
 -0.0013 0.0004 -0.0011 0.0598 -0.0021
 -0.0080 -0.0007 0.0598 0.0027 -0.0023
 -0.0001 0.0098 0.0000 0.0003 -0.7130
 -0.0423 0.0106 0.0026 -0.1618 -0.0091
 0.0021 0.0003 -0.1563 -0.0142 0.0048
 0.0006 0.1426 0.0035 -0.0066 -0.0013
 0.3642 0.0247 -0.0061 -0.0016
 (50.00%) -0.7071*Ir 2 s(27.77%)p 0.03(0.74%)d 2.57(71.49%)
 -0.0008 -0.5267 0.0138 -0.0092 0.0009
 -0.0013 0.0004 0.0011 -0.0609 0.0019
 0.0079 0.0007 -0.0593 -0.0020 0.0019
 0.0003 -0.0100 -0.0012 0.0005 -0.7224
 -0.0412 0.0107 0.0029 -0.1095 -0.0087
 0.0008 -0.0004 -0.1491 -0.0122 0.0008
 0.0001 0.1495 0.0040 -0.0066 -0.0013
 0.3654 0.0267 -0.0075 -0.0013
 1009. (0.31962) BD*(1)Ir 1- C 25
 (67.26%) 0.8201*Ir 1 s(35.57%)p 0.00(0.08%)d 1.81(64.34%)
 -0.0006 0.5964 0.0016 -0.0003 0.0011
 0.0019 0.0000 -0.0002 -0.0026 -0.0033
 0.0159 0.0005 -0.0162 0.0018 -0.0133
 0.0002 0.0079 -0.0025 0.0077 -0.5255

				-0.0095	-0.0078	-0.0032	0.3891	0.0159
				0.0066	0.0009	-0.4304	-0.0113	-0.0083
				-0.0003	-0.0060	-0.0068	0.0024	0.0005
				-0.1719	-0.0191	0.0040	0.0002	
(32.74%)	-0.5722*	C 25	s(61.54%)p 0.62(38.43%)d 0.00(0.03%)	0.0002	0.7835	-0.0388	0.0035	-0.0008
				0.0000	-0.3811	-0.0276	0.0110	0.0004
				0.3741	0.0286	-0.0096	-0.0013	-0.3109
				-0.0225	0.0091	0.0002	-0.0123	0.0071
				-0.0083	-0.0015	-0.0027		
1010. (0.32210)	BD*(1)Ir	1- C 26						
(67.52%)	0.8217*	Ir 1	s(36.02%)p 0.00(0.08%)d 1.77(63.90%)	-0.0004	0.6001	0.0017	0.0004	0.0022
				0.0018	-0.0001	-0.0002	-0.0064	-0.0039
				0.0106	0.0005	-0.0081	-0.0002	-0.0072
				0.0003	-0.0148	0.0037	-0.0180	-0.1107
				0.0079	-0.0008	-0.0020	-0.5054	-0.0166
				-0.0082	-0.0009	0.2997	0.0245	-0.0004
				0.0008	0.1022	-0.0032	0.0008	0.0004
				0.5194	0.0106	0.0116	0.0024	
(32.48%)	-0.5699*	C 26	s(61.68%)p 0.62(38.29%)d 0.00(0.03%)	0.0002	0.7844	-0.0380	-0.0036	-0.0006
				0.0000	-0.2265	-0.0179	0.0071	0.0006
				0.1424	0.0111	-0.0028	-0.0008	0.5559
				0.0395	-0.0165	-0.0011	-0.0048	-0.0093
				0.0073	0.0012	0.0110		
1011. (0.32164)	BD*(1)Ir	2- C 39						
(67.37%)	0.8208*	Ir 2	s(35.56%)p 0.00(0.09%)d 1.81(64.36%)	-0.0006	0.5963	0.0020	-0.0002	0.0014
				0.0018	0.0000	0.0002	0.0070	0.0019
				-0.0106	-0.0005	0.0122	-0.0009	0.0107
				0.0001	-0.0127	0.0046	-0.0156	-0.1987
				0.0035	-0.0031	-0.0026	0.3961	0.0174
				0.0031	0.0021	-0.5433	-0.0232	-0.0062
				-0.0008	-0.0461	-0.0075	0.0012	0.0001
				0.3857	0.0030	0.0113	0.0011	
(32.63%)	-0.5712*	C 39	s(61.60%)p 0.62(38.37%)d 0.00(0.03%)	0.0002	0.7839	-0.0388	-0.0034	-0.0009
				0.0001	0.2061	0.0154	-0.0073	-0.0007
				-0.2638	-0.0204	0.0067	0.0011	0.5189
				0.0368	-0.0158	-0.0001	-0.0060	0.0068
				-0.0119	-0.0015	0.0075		
1012. (0.32042)	BD*(1)Ir	2- C 40						
(67.44%)	0.8212*	Ir 2	s(36.05%)p 0.00(0.08%)d 1.77(63.87%)	-0.0005	0.6004	0.0012	0.0004	0.0018
				0.0018	-0.0001	0.0002	0.0029	0.0053
				-0.0146	-0.0006	0.0129	-0.0008	0.0125
				0.0000	0.0111	-0.0011	0.0106	-0.4389
				-0.0055	-0.0055	-0.0031	-0.5010	-0.0161
				-0.0116	-0.0004	0.4150	0.0217	0.0029
				0.0018	0.1422	-0.0043	0.0042	-0.0002
				-0.0369	-0.0158	0.0040	0.0008	
(32.56%)	-0.5706*	C 40	s(61.62%)p 0.62(38.35%)d 0.00(0.03%)	0.0002	0.7840	-0.0382	0.0039	-0.0007
				0.0000	0.3899	0.0290	-0.0107	-0.0010
				-0.3077	-0.0231	0.0070	0.0009	-0.3667
				-0.0269	0.0102	0.0009	-0.0108	-0.0100
				0.0081	0.0007	0.0001		

SECOND ORDER PERTURBATION THEORY ANALYSIS OF FOCK MATRIX IN NBO BASIS

Threshold for printing: 0.50 kcal/mol
(Intermolecular threshold: 0.05 kcal/mol)

Donor NBO (i)	Acceptor NBO (j)	E(2) kcal/mol	E(j)-E(i) a.u.	F(i,j) a.u.
=====				
within unit 1				
114. LP (1)Ir 1	206. RY*(4)Ir 2	0.90	1.24	0.031
114. LP (1)Ir 1	657. RY*(4) C26	2.00	1.65	0.053
114. LP (1)Ir 1	1028. BD*(2) O11- C25	1.77	0.48	0.026
114. LP (1)Ir 1	1030. BD*(1) O12- C26	8.20	0.49	0.056
114. LP (1)Ir 1	1031. BD*(2) O12- C26	1.21	0.35	0.018
114. LP (1)Ir 1	1032. BD*(3) O12- C26	2.34	0.79	0.039
115. LP (2)Ir 1	638. RY*(3) C25	1.09	2.03	0.044
115. LP (2)Ir 1	639. RY*(4) C25	0.87	1.97	0.038
115. LP (2)Ir 1	1027. BD*(1) O11- C25	2.85	0.31	0.027
115. LP (2)Ir 1	1028. BD*(2) O11- C25	9.29	0.48	0.060
115. LP (2)Ir 1	1029. BD*(3) O11- C25	1.30	0.82	0.030
115. LP (2)Ir 1	1030. BD*(1) O12- C26	1.25	0.49	0.022
116. LP (3)Ir 1	175. RY*(2)Ir 1	0.58	1.39	0.027
116. LP (3)Ir 1	638. RY*(3) C25	0.99	2.04	0.042
116. LP (3)Ir 1	639. RY*(4) C25	0.87	1.98	0.039
116. LP (3)Ir 1	641. RY*(6) C25	0.78	1.70	0.034
116. LP (3)Ir 1	656. RY*(3) C26	1.12	2.35	0.048
116. LP (3)Ir 1	658. RY*(5) C26	0.77	1.68	0.034
116. LP (3)Ir 1	659. RY*(6) C26	0.61	1.61	0.030
116. LP (3)Ir 1	1027. BD*(1) O11- C25	17.80	0.32	0.069
116. LP (3)Ir 1	1028. BD*(2) O11- C25	1.15	0.49	0.022
116. LP (3)Ir 1	1030. BD*(1) O12- C26	1.46	0.50	0.025
116. LP (3)Ir 1	1031. BD*(2) O12- C26	15.53	0.36	0.068
117. LP (1)Ir 2	806. RY*(3) C39	0.62	2.08	0.033
117. LP (1)Ir 2	807. RY*(4) C39	0.57	1.70	0.029
117. LP (1)Ir 2	825. RY*(4) C40	1.33	1.82	0.045
117. LP (1)Ir 2	1035. BD*(1) O15- C39	4.38	0.42	0.038
117. LP (1)Ir 2	1036. BD*(2) O15- C39	1.32	0.37	0.020
117. LP (1)Ir 2	1037. BD*(3) O15- C39	0.85	0.81	0.024
117. LP (1)Ir 2	1038. BD*(1) O16- C40	8.19	0.42	0.053
117. LP (1)Ir 2	1040. BD*(3) O16- C40	1.33	0.79	0.029
118. LP (2)Ir 2	177. RY*(4)Ir 1	0.63	1.29	0.026
118. LP (2)Ir 2	807. RY*(4) C39	1.18	1.70	0.042
118. LP (2)Ir 2	825. RY*(4) C40	0.84	1.82	0.036
118. LP (2)Ir 2	1035. BD*(1) O15- C39	5.94	0.42	0.045
118. LP (2)Ir 2	1036. BD*(2) O15- C39	2.38	0.38	0.027
118. LP (2)Ir 2	1037. BD*(3) O15- C39	1.17	0.82	0.028
118. LP (2)Ir 2	1038. BD*(1) O16- C40	5.44	0.43	0.043
118. LP (2)Ir 2	1040. BD*(3) O16- C40	0.65	0.79	0.021
119. LP (3)Ir 2	204. RY*(2)Ir 2	0.60	1.39	0.027
119. LP (3)Ir 2	806. RY*(3) C39	1.18	2.10	0.047
119. LP (3)Ir 2	809. RY*(6) C39	0.93	1.63	0.037
119. LP (3)Ir 2	824. RY*(3) C40	1.48	2.29	0.055
119. LP (3)Ir 2	826. RY*(5) C40	0.69	1.67	0.032
119. LP (3)Ir 2	827. RY*(6) C40	0.54	1.67	0.028
119. LP (3)Ir 2	1035. BD*(1) O15- C39	4.11	0.43	0.038
119. LP (3)Ir 2	1036. BD*(2) O15- C39	12.20	0.39	0.063
119. LP (3)Ir 2	1038. BD*(1) O16- C40	1.10	0.44	0.020
119. LP (3)Ir 2	1039. BD*(2) O16- C40	12.88	0.42	0.067
119. LP (3)Ir 2	1040. BD*(3) O16- C40	0.56	0.80	0.020