

NanoCOM-U15 Reliability Prediction Report (MTBF)

Report NO : 09E070030

06-12-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: TF-NanoCOM-U15-A10

II . Prediction Date: Jun. 12, 2009

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Jessica Chou

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.3 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : 100%
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

- TF-NanoCOM-U15-A10 :
Failure Rate: 12.956615 ppm
MTBF: 77,181 Hours

AAEON Reliability Prediction Report

Part Number 9697NU1505-D
Reference Des
Date 06. 11, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.30



Description Top-level assembly
File Name NanoCOM-U15.RPJ
Time 12:02 下午
Failure Rate 12.956615
MTBF 77,181

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-NanoCOM-U15-A10	9697NU1505-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	12.96	77180.65

AAEON Reliability Prediction Report

Part Number 9697NU1505-D
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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.30



Description Top-level assembly
File Name NanoCOM-U15.RPJ
Time 12:02 下午
Failure Rate 12.956615
MTBF 77,181

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655902130	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001156	.0089	865125403.57
1653930130	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.017339	.1338	57675026.90
16540M0001	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.127149	.9813	7864776.40
1129701690	Capacitor	C1,C10,C101,C102, C103,C104,C105, C107,C110,C111, C113,C115,C116,C12, C123,C125,C128,C13, C131,C133,C134, C140,C141,C142, C149,C150,C151, C154,C156,C157,C16, C161,C165,C169,C17, C178,C18,C185,C186, C192,C194,C195, C196,C197,C198,	Telcordia Issue 1	Level I		126.00	0.004562	4.4366	219195994.91
1129610080	Capacitor	C114,C117,C121, C122,C124,C129, C132,C14,C143,C167, C168,C173,C181, C183,C189,C19,C200, C206,C209,C221, C226,C227,C23,C236, C24,C248,C296,C297, C299,C301,C32,C55, C6,C61,C71,C75,C84	Telcordia Issue 1	Level I		37.00	0.004562	1.3028	219195994.91
11E9501091	Capacitor	C11,C127,C15,C158, C160,C174,C175, C176,C177,C180, C182,C187,C188, C190,C191,C20,C201, C210,C212,C216, C222,C225,C228, C233,C235,C237, C243,C244,C245, C246,C247,C253, C258,C26,C260,C266, C270,C41,C45,C66, C74,C9,C91	Telcordia Issue 1	Level I		43.00	0.004562	1.5141	219195994.91
1129710390	Capacitor	C152,C170,C25,C68, C70	Telcordia Issue 1	Level I		5.00	0.004562	.1761	219195994.91
1124522680	Capacitor	C162,C163,C193,C27	Telcordia Issue 1	Level I		4.00	0.004562	.1408	219195994.91
11C4512290	Capacitor	C38	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1124518180	Capacitor	C42	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91

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Time 12:02 下午
Failure Rate 12.956615
MTBF 77,181

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121747890	Capacitor	C219,C44	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91
11E9647680	Capacitor	C171,C172,C220, C249,C50,C52,C64	Telcordia Issue 1	Level I		7.00	0.004562	.2465	219195994.91
1124427080	Capacitor	C51,C56	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91
1124433190	Capacitor	C58	Telcordia Issue 1	Level I		1.00	0.005476	.0423	182603895.42
1122601680	Capacitor	C285,C286,C287,C59, C67,C69	Telcordia Issue 1	Level I		6.00	0.004562	.2113	219195994.91
1129701790	Capacitor	C120,C146,C147, C148,C155,C229, C267,C298,C302,C62, C79,C80,C81,C82, C97	Telcordia Issue 1	Level I		15.00	0.004562	.5282	219195994.91
1129610051	Capacitor	C112,C273,C72	Telcordia Issue 1	Level I		3.00	0.004562	.1056	219195994.91
11B2722650	Capacitor	C73,C77	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91
1124405090	Capacitor	C86	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1124433090	Capacitor	C100,C87,C99	Telcordia Issue 1	Level I		3.00	0.004562	.1056	219195994.91
11B2701080	Capacitor	C263,C92	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91
1129710090	Capacitor	C108,C251,C269, C272,C275	Telcordia Issue 1	Level I		5.00	0.004562	.1761	219195994.91
1121501690	Capacitor	C130,C153,C255, C265	Telcordia Issue 1	Level I		4.00	0.004562	.1408	219195994.91
11E9547680	Capacitor	C136	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1121501680	Capacitor	C137	Telcordia Issue 1	Level I		1.00	0.005476	.0423	182603895.42
1129622050	Capacitor	C145	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1124482080	Capacitor	C166	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1124527180	Capacitor	C179	Telcordia Issue 1	Level I		1.00	0.005476	.0423	182603895.42
1124522880	Capacitor	C184	Telcordia Issue 1	Level I		1.00	0.005476	.0423	182603895.42
1124533280	Capacitor	C257	Telcordia Issue 1	Level I		1.00	0.005476	.0423	182603895.42
11B2710060	Capacitor	C274,C279,C280, C281,C282,C283, C289	Telcordia Issue 1	Level I		7.00	0.004562	.2465	219195994.91
1300001440	Semiconductor	D1,D15,D2,D3,D4,D8	Telcordia Issue 1	Level I		6.00	0.024088	1.1155	41515203.19
1301005446	Semiconductor	D5,D6	Telcordia Issue 1	Level I		2.00	0.024088	.3718	41515203.19
1305099140	Semiconductor	D10,D7	Telcordia Issue 1	Level I		2.00	0.080292	1.2394	12454560.96
1301053040	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.024088	.1859	41515203.19
1301005440	Semiconductor	D12,D13,D17	Telcordia Issue 1	Level I		3.00	0.024088	.5577	41515203.19
1301005442	Semiconductor	D14,D16	Telcordia Issue 1	Level I		2.00	0.024088	.3718	41515203.19
121230603I	Inductor	FB1,FB2	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
1212306033	Inductor	FB3,FB4,FB5	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
165300320D	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.003468	.0268	288375134.52
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.005012	.0387	199519584.34
1211101066	Inductor	L1,L2	Telcordia Issue 1	Level I		2.00	0.086680	1.3380	11536631.31

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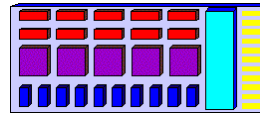


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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
121110336P	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.086680	.6690	11536631.31
121110336L	Inductor	L4	Telcordia Issue 1	Level I		1.00	0.086680	.6690	11536631.31
1315422410	Semiconductor	Q1,Q31,Q5,Q6	Telcordia Issue 1	Level I		4.00	0.080292	2.4788	12454560.96
1315422410	Semiconductor	Q3	Telcordia Issue 1	Level I	43.40	1.00	0.238022	1.8371	4201299.30
1315495710	Semiconductor	Q2	Telcordia Issue 1	Level I		1.00	0.080292	.6197	12454560.96
1311138610	Semiconductor	Q4,Q9	Telcordia Issue 1	Level I		2.00	0.024088	.3718	41515203.19
1315700216	Semiconductor	Q10,Q12,Q15,Q16, Q24,Q25,Q26,Q36,Q7	Telcordia Issue 1	Level I		9.00	0.080292	5.5773	12454560.96
1315446310	Semiconductor	Q8	Telcordia Issue 1	Level I		1.00	0.080292	.6197	12454560.96
131411171C	Integrated Circuit	Q11	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
1310390413	Semiconductor	Q13,Q14,Q17,Q18, Q28,Q29,Q30	Telcordia Issue 1	Level I		7.00	0.024088	1.3014	41515203.19
1314108412	Integrated Circuit	Q19	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
1311390612	Semiconductor	Q20	Telcordia Issue 1	Level I		1.00	0.024088	.1859	41515203.19
1315230511	Semiconductor	Q21	Telcordia Issue 1	Level I		1.00	0.080292	.6197	12454560.96
1315033510	Semiconductor	Q22,Q23	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1315442011	Semiconductor	Q27	Telcordia Issue 1	Level I		1.00	0.080292	.6197	12454560.96
1314880010	Integrated Circuit	Q32,Q35	Telcordia Issue 1	Level I		2.00	0.060682	.9367	16479361.92
14S3880000	Integrated Circuit	Q33	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
1540700081	Resistor	RP1	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1540782282	Resistor	RP2,RP3	Telcordia Issue 1	Level I		2.00	0.012664	.1955	78961933.93
106B501032	Resistor	RT1	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
106B747030	Resistor	RT2	Telcordia Issue 1	Level I		1.00	0.011559	.0892	86512540.36
105A715009	Resistor	R1,R143,R308	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
1050512104	Resistor	R10,R13,R141,R142, R144,R145,R146, R147,R156,R157, R165,R166,R169, R172,R173,R175, R176,R190,R194,R2, R21,R3,R4,R6,R9	Telcordia Issue 1	Level I		25.00	0.002281	.4401	438391989.82

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A705609	Resistor	R201,R204,R205, R211,R216,R222, R223,R230,R32,R51, R53,R55,R58,R77	Telcordia Issue 1	Level I		14.00	0.002281	.2465	438391989.82
105A502039	Resistor	R33	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A700133	Resistor	R251,R258,R274, R281,R305,R34	Telcordia Issue 1	Level I		6.00	0.002281	.1056	438391989.82
105A514733	Resistor	R35	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A708209	Resistor	R256,R257,R41,R42, R43,R44	Telcordia Issue 1	Level I		6.00	0.002281	.1056	438391989.82
105A704733	Resistor	R46	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A702209	Resistor	R295,R298,R327,R47	Telcordia Issue 1	Level I		4.00	0.002281	.0704	438391989.82
105A700003	Resistor	R179,R180,R191, R212,R224,R238, R272,R283,R337,R48	Telcordia Issue 1	Level I		10.00	0.002281	.1761	438391989.82
105A524963	Resistor	R49	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A560469	Resistor	R227,R231,R232, R243,R50	Telcordia Issue 1	Level I		5.00	0.002281	.0880	438391989.82
105A536513	Resistor	R52	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A500133	Resistor	R246,R261,R269,R62, R71	Telcordia Issue 1	Level I		5.00	0.002281	.0880	438391989.82
105A510003	Resistor	R63	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A501523	Resistor	R64	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A527469	Resistor	R244,R249,R73	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
105A568003	Resistor	R76	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A747003	Resistor	R233,R83	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
105A503333	Resistor	R123,R84	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
105A702033	Resistor	R85	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A701033	Resistor	R262,R275,R285, R287,R293,R294,R86	Telcordia Issue 1	Level I		7.00	0.002281	.1232	438391989.82
105A708229	Resistor	R116,R346,R348,R87	Telcordia Issue 1	Level I		4.00	0.002281	.0704	438391989.82
105A704729	Resistor	R110,R113,R119, R208,R209,R241, R242,R290,R383, R389,R89	Telcordia Issue 1	Level I		11.00	0.002281	.1937	438391989.82
105A529423	Resistor	R91	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
1050540224	Resistor	R100,R102,R103	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
105A703309	Resistor	R104,R177,R202, R267,R286	Telcordia Issue 1	Level I		5.00	0.002281	.0880	438391989.82
105A507533	Resistor	R105	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A704739	Resistor	R114	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A702229	Resistor	R127,R128,R161, R206	Telcordia Issue 1	Level I		4.00	0.002281	.0704	438391989.82
105B500379	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A701233	Resistor	R134	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82

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1050520004	Resistor	R136,R139,R168	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
105A701059	Resistor	R138	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A512103	Resistor	R167	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A547503	Resistor	R178	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
1059700001	Resistor	R193,R270,R302, R314,R321	Telcordia Issue 1	Level I		5.00	0.002281	.0880	438391989.82
105A530163	Resistor	R203	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
1050524904	Resistor	R214,R254,R277	Telcordia Issue 1	Level I		3.00	0.002281	.0528	438391989.82
105A540213	Resistor	R217,R312	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
105A506823	Resistor	R218	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A528733	Resistor	R219	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A704723	Resistor	R229,R307,R309, R315,R320,R328	Telcordia Issue 1	Level I		6.00	0.002281	.1056	438391989.82
105A554969	Resistor	R234,R237	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
105A501133	Resistor	R240	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A701003	Resistor	R245	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A513323	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A700103	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A526113	Resistor	R252	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A522103	Resistor	R260	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A522663	Resistor	R288	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A507523	Resistor	R296	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A703909	Resistor	R297	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A701053	Resistor	R311	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A733009	Resistor	R323,R345	Telcordia Issue 1	Level I		2.00	0.002281	.0352	438391989.82
105A518223	Resistor	R324	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A501633	Resistor	R326	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A710053	Resistor	R331	Telcordia Issue 1	Level I		1.00	0.013686	.1056	73065331.64
105A549919	Resistor	R342	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
1050536514	Resistor	R343	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A501223	Resistor	R361	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A518703	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
105A511503	Resistor	R363	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
1600000203	Connection	S1	Telcordia Issue 1	Level I		1.00	0.001156	.0089	865125403.57
1189633160	Capacitor	TC1,TC5,TC6	Telcordia Issue 1	Level I		3.00	0.004562	.1056	219195994.91
1189622850	Capacitor	TC2,TC7	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91
118961018A	Capacitor	TC3,TC4	Telcordia Issue 1	Level I		2.00	0.004562	.0704	219195994.91

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1142547080	Capacitor	TC9	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1189633192	Capacitor	TC10	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
14S6863100	Integrated Circuit	U1	Telcordia Issue 1	Level I	37.40	1.00	0.370175	2.8570	2701427.48
14S6863100	Integrated Circuit	U2	Telcordia Issue 1	Level I	38.10	1.00	0.385385	2.9744	2594805.20
14S6863100	Integrated Circuit	U13	Telcordia Issue 1	Level I	41.80	1.00	0.475488	3.6698	2103104.09
14S6863100	Integrated Circuit	U14	Telcordia Issue 1	Level I	43.20	1.00	0.514219	3.9688	1944695.38
14S2048600	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
14S3626201	Integrated Circuit	U5	Telcordia Issue 1	Level I	41.80	1.00	0.882122	6.8083	1133629.57
14S4005000	Integrated Circuit	U7	Telcordia Issue 1	Level I	30.60	1.00	0.135764	1.0478	7365719.53
14S4821500	Integrated Circuit	U8	Telcordia Issue 1	Level I	30.50	1.00	0.135110	1.0428	7401363.28
14S3511800	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
14S4751100	Integrated Circuit	U11	Telcordia Issue 1	Level I	45.90	1.00	0.274914	2.1218	3637499.39
1315176100	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
14S6340222	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.023452	.1810	42641143.29
14S4900100	Integrated Circuit	U18	Telcordia Issue 1	Level I	38.40	1.00	0.727374	5.6139	1374808.52
14S6308001	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.036678	.2831	27264461.71
14S2041500	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.060682	.4683	16479361.92
14S6200802	Integrated Circuit	U21	Telcordia Issue 1	Level I	42.80	1.00	0.953292	7.3576	1048996.19
14S4825740	Integrated Circuit	U22	Telcordia Issue 1	Level I	41.10	1.00	0.221841	1.7122	4507735.27
1233310040	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.360000	2.7785	2777777.78
1231325058	Miscellaneous	Y2,Y3	Telcordia Issue 1	Level I		2.00	0.150000	2.3154	6666666.67
123131435B	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.1577	6666666.67
1231332722	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	1.1577	6666666.67
105A705603	Resistor	R140	Telcordia Issue 1	Level I		1.00	0.002281	.0176	438391989.82
14S4033001	Integrated Circuit	U9	Telcordia Issue 1	Level I	49.40	1.00	0.320259	2.4718	3122472.15
1129622690	Capacitor	C138	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
1211106862	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.086680	.6690	11536631.31
11C4501650	Capacitor	C76	Telcordia Issue 1	Level I		1.00	0.004562	.0352	219195994.91
14S8212806	Integrated Circuit	U3	Telcordia Issue 1	Level I	42.00	1.00	0.892081	6.8851	1120973.83