MLJ

MOFFET, LARSON & JOHNSON, INC.
CONSULTING TELECOMMUNICATIONS ENGINEERS

Impact of 1600 Watt EIRP PCS Base Stations on Existing Microwave Users

Addendum to December, 1993 Study

Prepared for Northern Telecom
by MLJ, Inc.
John Pastore
D. Cameron King

December 22, 1993

Two Skyline Place • 5203 Leesburg Pike • Suite 800 • Falls Church, Virginia 22041
703-824-5660 • FAX: 703-824-5672

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WNTL679	WNTL678	2135	A	-97.29	-999.00	901.71	76	0	0	0	0	0	0	0
KJW46	KBE20	2132	D	-97.13	-999.00	901.87		0	0	0	0	0	0	0
KBE20	KJW46	2182	D	-97.13	-999.00	901.87		0	0	0	0	0	0	0
WED839	WEH382	2133	D	-96.92	-999.00	902.08		0	0	0	0	0	0	0
WEH382	WED839	2183	D	-96.92	-999.00	902.08		0	0	0	0	0	0	0
WED839	WEH380	2191	D	-96.05	-999.00	902.95		0	0	0	0	0	0	0
WEG995	WEG999	2143	A	-95.88	-999.00	903.12	76	0	0	0	0	0	0	0
WEG999	WEG995	2193	A	-95.88	-999.00	903.12	76	0	0	0	0	0	0	0
WGY621	WGY623	2184	A	-95.08	-999.00	903.92	76	0	0	0	0	0	0	0
KID29	KIU72	2181	A	-95.08	-999.00	903.92	76	0	0	0	0	0	0	0
KIU72	KID29	2131	A	-95.08	-999.00	903.92	76	0	0	0	0	0	0	0
WGY623	WGY621	2134	A	-95.08	-999.00	903.92	76	0	0	0	0	0	0	0
WNEM490	WNEM489	2185	A	-94.45	-999.00	904.55	76	0	0	0	0	0	0	0
WNEM489	WNEM490	2135	A	-94.45	-999.00	904.55	76	0	0	0	0	0	0	0
WIU50	KPW60	2183	D	-94.30	-999.00	904.70		0	0	0	0	0	0	0
WHI922	WHI926	2185	A	-93.59	-999.00	905.41	76	0	0	0	0	0	0	0
WHI926	WHI922	2135	A	-93.59	-999.00	905.41	76	0	0	0	0	0	0	0
WEG995	WEH202	2133	A	-92.94	-999.00	906.06	76	0	0	0	0	0	0	0
WEH202	WEG995	2183	A	-92.94	-999.00	906.06	76	0	0	0	0	0	0	0
WHI923	WHI927	2143	A	-92.76	-999.00	906.24	76	0	0	0	0	0	0	0
WNEU223	WNEU227	2195	A	-92.70	-999.00	906.30	76	0	0	0	0	0	0	0
WNEU227	WNEU223	2145	A	-92.70	-999.00	906.30	76	0	0	0	0	0	0	0
WNTE246	WNEU225	2132	A	-92.56	-999.00	906.44	76	0	0	0	0	0	0	0
WNEU225	WNTE246	2182	A	-92.56	-999.00	906.44	76	0	0	0	0	0	0	0
WNTQ317	WNTQ316	2138	A	-92.43	-999.00	906.57	76	0	0	0	0	0	0	0
WNTQ316	WNTQ317	2188	A	-92.43	-999.00	906.57	76	0	0	0	0	0	0	0
WNEG914	WNEG913	2140	A	-91.98	-999.00	907.02	76	0	0	0	0	0	0	0
WNEG913	WNEG914	2190	A	-91.98	-999.00	907.02	76	0	0	0	0	0	0	0
WNER298	WNER299	2194	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WNER299	WNER298	2144	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WED839	WEH380	2190	D	-91.05	-999.00	907.95		0	0	0	0	0	0	0
WNEP900	KNP86	2137	A	-91.00	-999.00	908.00	76	0	0	0	0	0	0	0
KNP86	WNEP900	2187	A	-91.00	-999.00	908.00	76	0	0	0	0	0	0	0
WNTM925	WNTP379	2183	A	-89.00	-999.00	910.00	76	0	0	0	0	0	0	0
WNTP379	WNTM925	2133	A	-89.00	-999.00	910.00	76	0	0	0	0	0	0	0
WIA551	KZK53	2138	A	-87.63	-999.00	911.37	76	0	0	0	0	0	0	0
KZK53	WIA551	2188	A	-87.63	-999.00	911.37	76	0	0	0	0	0	0	0
WHI922	WHI923	2188	A	-85.95	-999.00	913.05	76	0	0	0	0	0	0	0
WHI923	WHI922	2138	A	-85.95	-999.00	913.05	76	0	0	0	0	0	0	0
KMV86	WBM522	2190	A	-85.90	-999.00	913.10	76	0	0	0	0	0	0	0
WBM522	KMV86	2140	A	-85.90	-999.00	913.10	76	0	0	0	0	0	0	0
WNTQ316	WNTQ313	2191	A	-83.01	-999.00	915.99	76	0	0	0	0	0	0	0
WNTQ313	WNTQ316	2141	A	-83.01	-999.00	915.99	76	0	0	0	0	0	0	0
KIB62	KBT79	2144	A	-79.23	-999.00	919.77	76	0	0	0	0	0	0	0
WNTQ313	WNTQ314	2144	A	-78.91	-999.00	920.09	76	0	0	0	0	0	0	0
WNTQ314	WNTQ313	2194	A	-78.91	-999.00	920.09	76	0	0	0	0	0	0	0
WED637	KDU80	2181	A	-74.33	-999.00	924.67	76	0	0	0	0	0	0	0
KDU80	WED637	2131	A	-74.33	-999.00	924.67	76	0	0	0	0	0	0	0
WHI926	WHI927	2132	A	-74.13	-999.00	924.87	76	0	0	0	0	0	0	0
WHI927	WHI926	2182	A	-74.13	-999.00	924.87	76	0	0	0	0	0	0	0
WNTQ315	WNTQ313	2188	A	-73.95	-999.00	925.05	76	0	0	0	0	0	0	0
WNTQ313	WNTQ315	2138	A	-73.95	-999.00	925.05	76	0	0	0	0	0	0	0
KRN46	WNEQ701	2141	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
WNEQ701	KRN46	2191	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
WED278	WED277	2193	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WED277	WED278	2143	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WHC502	WNEM698	2182	A	-56.87	-999.00	942.13	76	0	0	0	0	0	0	0
WNEM698	WHC502	2132	A	-56.87	-999.00	942.13	76	0	0	0	0	0	0	0
WGY620	WGY626	2146	A	-46.05	-999.00	952.95	76	0	0	0	0	0	0	0
								7574	592	150	164	146	36	96

Introduction

MLJ was retained by Northern Telecom to perform an additional PCS system design and interference analysis in the Washington D.C. Basic Trading Area (BTA). In the first study, MLJ designed two hypothetical PCS systems, based on allowing PCS transmit of 100 Watts EIRP and 1000 Watts EIRP. A third system was designed, which conforms with existing cellular radio power rules, to allow comparison of PCS and cellular coverage. Next, the two PCS systems were evaluated in terms of their impact on existing microwave licensees. After making reasonable design and propagation assumptions, MLJ's PathGuard software was used to determine the extent to which allowing 1000 Watt EIRP PCS base stations will affect microwave users beyond the level anticipated with 100 Watt PCS base stations. Spectrum blocks A, B, E, F, and G were evaluated using the 100 and 1000 Watt designs.

MLJ has performed additional work including the design of a 1600 Watt EIRP PCS system and PathGuard interference analysis in all spectrum blocks (A, B, C, D, E, F, G). Also, the 100 and 1000 Watt EIRP designs from the earlier study were run through PathGuard to evaluate blocks C and D. As before, the objective of this work is to evaluate the number of microwave paths potentially affected by PCS systems allowing base station transmit powers of 100, 1000, and 1600 Watts EIRP.

System Design Considerations

The radio design and the underlying assumptions used to create the design presented in this report are consistent with that of the 100 Watt and 1000 Watt EIRP system designs previously completed. Methods and assumptions applied to area classification and propagation analysis were maintained for comparative purposes. The specific operating parameters of each of the site classes is detailed in the attached spreadsheets. Average coverage radii and specific operating parameters per site class are as described in the following tables.

Table 1. Site Classes

1600 Watt Design		
Site Class		
Urban	1.08	23
Suburban	3.54	37
Rural	15	56
Total		116

Table 2. 1600 Watt EIRP Design

Site Classification	Base Station Height	Base Station Power	
Urban	30 meters	50 W EIRP	30.5 W ERP
Suburban	50 meters	100 W EIRP	61.0 W ERP
Rural	100 meters	1600 W EIRP	975.3 W ERP

Table 3. Number of Proposed Sites

Site Class	100 W PCS	1000 W PCS	Cellular	1600 W PCS
Urban	43	23	13	23
Suburban	66	37	13	37
Rural	86	61	53	56
Total	195	121	79	116

PathGuard Interference Analysis

As in the previous study, the 1600 Watt system was run through PathGuard to determine the impact on existing microwave licensees in the Washington D.C. area. Interference was simulated by activating every 200 KHz channel in the block at every base station simultaneously. While this will never happen in a real GSM system, it is useful in predicting interference into existing microwave paths. The spreadsheets in the appendix indicate the number of paths that would suffer unacceptable interference based on the current draft version of the TIA's TSB-10F, Annex F. As before, we can compare the number of affected paths in each spectrum block using the three hypothetical PCS system designs.

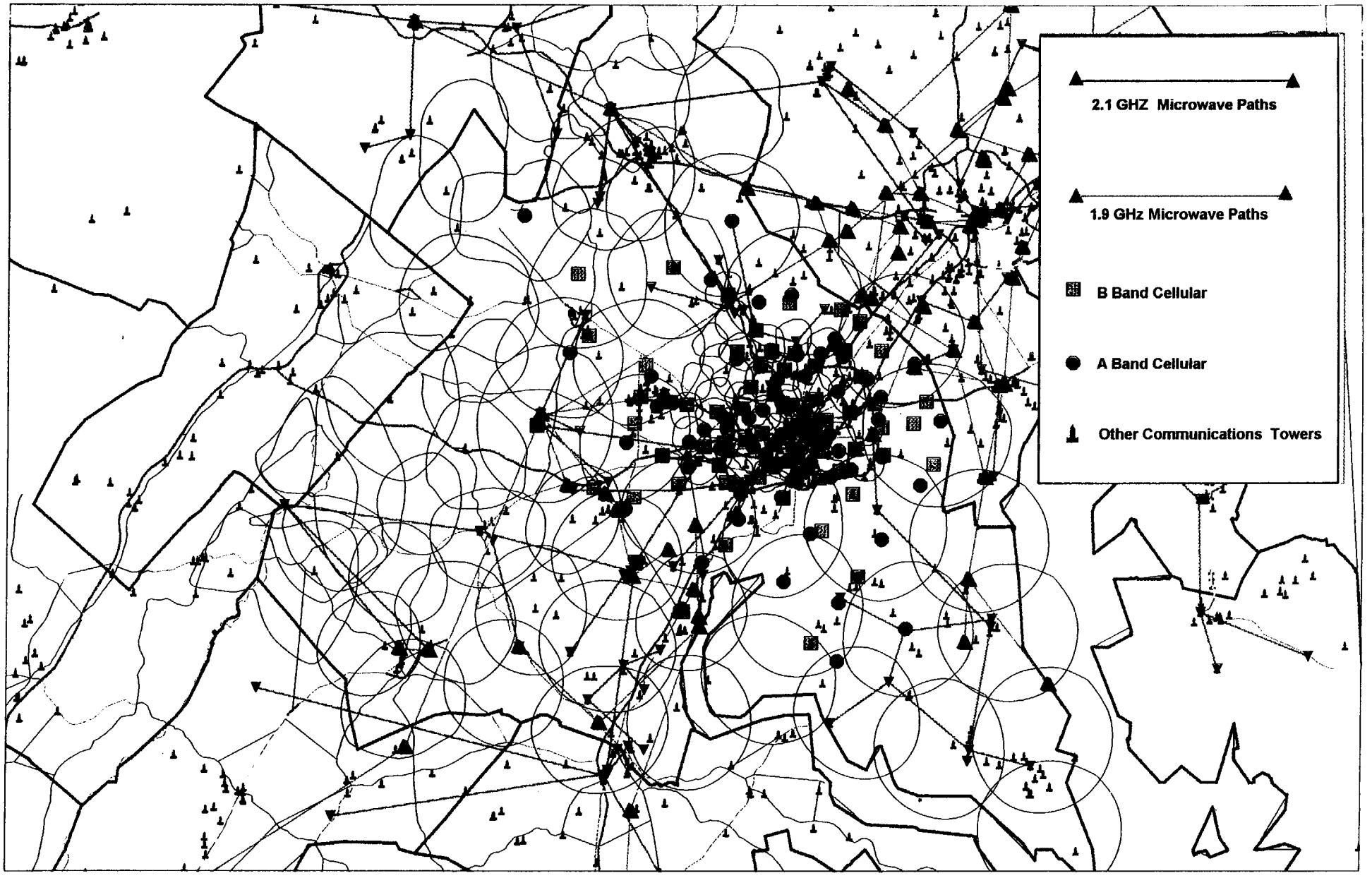
Table 4. Affected Path Comparison

	100 Watt	1000 Watt	1600 Watt
A	35	34	35
B	42	45	42
C	47	38	41
D	48	43	43
E	67	66	69
F	64	44	37
G	33	23	25

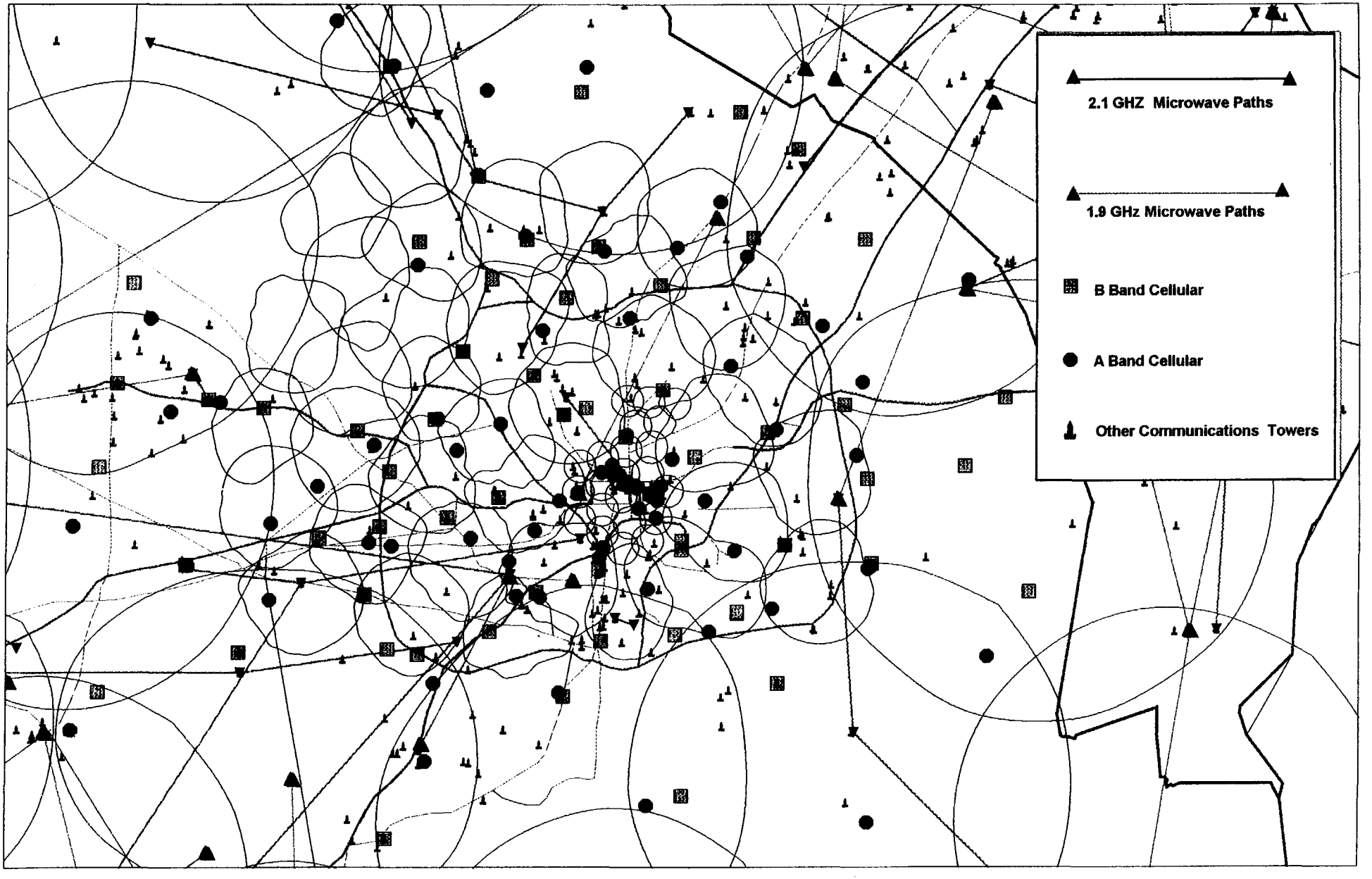
Table 4 shows no substantial increase in the number of paths adversely affected in the 1600 Watt scenario. This is likely due to the fact that only rural sites were simulated at 1600 Watts, while the urban and suburban sites used the same 50 and 100 Watt EIRP transmit powers from the earlier study.

APPENDIX

Washington BTA NTI 1600 Watt Design System-Wide



Washington BTA NTI 1600 Watt Design City Zoom



ID	TYPE	LAT	LON	TXHEIGHT	POWER	CONTOUR	LOSS SLOPE	ACCESS FACTOR
1	Urban	38.8792	-77.0097	30	47.00	-85	3.00	-7.5
2	Urban	38.8658	-77.0162	30	47.00	-85	3.00	-7.5
3	Urban	38.8615	-77.0351	30	47.00	-85	3.00	-7.5
4	Urban	38.8708	-77.0510	30	47.00	-85	3.00	-7.5
5	Urban	38.8765	-77.0299	30	47.00	-85	3.00	-7.5
6	Urban	38.8912	-77.0183	30	47.00	-85	3.00	-7.5
7	Urban	38.8919	-77.0368	30	47.00	-85	3.00	-7.5
8	Urban	38.8842	-77.0510	30	47.00	-85	3.00	-7.5
9	Urban	38.8782	-77.0686	30	47.00	-85	3.00	-7.5
10	Urban	38.8946	-77.0699	30	47.00	-85	3.00	-7.5
11	Urban	38.8989	-77.0519	30	47.00	-85	3.00	-7.5
12	Urban	38.9049	-77.0347	30	47.00	-85	3.00	-7.5
13	Urban	38.9059	-77.0162	30	47.00	-85	3.00	-7.5
14	Urban	38.9096	-77.0686	30	47.00	-85	3.00	-7.5
15	Urban	38.9146	-77.0510	30	47.00	-85	3.00	-7.5
16	Urban	38.9190	-77.0329	30	47.00	-85	3.00	-7.5
17	Urban	38.9210	-77.0132	30	47.00	-85	3.00	-7.5
18	Urban	38.9330	-77.0256	30	47.00	-85	3.00	-7.5
19	Urban	38.9357	-77.0072	30	47.00	-85	3.00	-7.5
20	Urban	38.9464	-76.9956	30	47.00	-85	3.00	-7.5
21	Urban	38.9474	-77.0153	30	47.00	-85	3.00	-7.5
22	Suburban	38.9504	-77.0755	50	50.00	-92	2.70	-7.5
23	Suburban	38.8942	-77.1150	50	50.00	-92	2.70	-7.5
24	Suburban	38.8481	-77.0884	50	50.00	-92	2.70	-7.5
25	Suburban	38.9267	-76.9659	50	50.00	-92	2.70	-7.5
26	Urban	38.8951	-77.0010	30	47.00	-85	3.00	-7.5
27	Suburban	38.8743	-76.9546	50	50.00	-92	2.70	-7.5
28	Suburban	38.8263	-77.0189	50	50.00	-92	2.70	-7.5
29	Suburban	38.8428	-76.9762	50	50.00	-92	2.70	-7.5
30	Urban	38.9482	-77.0320	30	47.00	-85	3.00	-7.5
31	Suburban	38.9772	-77.0163	50	50.00	-92	2.70	-7.5
32	Suburban	38.9982	-77.0791	50	50.00	-92	2.70	-7.5
33	Suburban	38.9925	-77.1237	50	50.00	-92	2.70	-7.5
34	Suburban	38.9249	-77.1324	50	50.00	-92	2.70	-7.5
35	Suburban	39.0266	-77.0295	50	50.00	-92	2.70	-7.5
36	Suburban	39.0044	-76.9572	50	50.00	-92	2.70	-7.5
37	Suburban	38.9635	-76.9272	50	50.00	-92	2.70	-7.5
38	Suburban	38.9073	-76.8871	50	50.00	-92	2.70	-7.5
39	Suburban	38.8420	-76.8827	50	50.00	-92	2.70	-7.5
40	Suburban	39.0550	-77.1208	50	50.00	-92	2.70	-7.5
41	Suburban	39.0663	-77.0572	50	50.00	-92	2.70	-7.5
42	Suburban	39.0504	-76.9849	50	50.00	-92	2.70	-7.5
43	Suburban	39.0396	-77.1872	50	50.00	-92	2.70	-7.5
44	Suburban	38.9936	-77.2025	50	50.00	-92	2.70	-7.5
45	Suburban	38.9482	-77.1872	50	50.00	-92	2.70	-7.5
46	Suburban	38.9062	-77.1850	50	50.00	-92	2.70	-7.5
47	Suburban	38.8545	-77.1580	50	50.00	-92	2.70	-7.5
48	Suburban	38.8107	-77.1156	50	50.00	-92	2.70	-7.5
49	Suburban	39.0618	-77.2551	50	50.00	-92	2.70	-7.5
50	Suburban	39.0215	-77.2354	50	50.00	-92	2.70	-7.5
51	Suburban	38.9914	-77.2909	50	50.00	-92	2.70	-7.5
52	Suburban	38.9556	-77.2434	50	50.00	-92	2.70	-7.5
53	Suburban	38.9209	-77.2420	50	50.00	-92	2.70	-7.5
54	Suburban	38.9334	-77.3179	50	50.00	-92	2.70	-7.5
55	Suburban	38.8834	-77.3040	50	50.00	-92	2.70	-7.5

ID	TYPE	LAT	LON	TXHEIGHT	POWER	CONTOUR	LOSS SLOPE	ACCESS FACTOR
56	Suburban	38.8653	-77.2310	50	50.00	-92	2.70	-7.5
57	Suburban	38.8221	-77.1974	50	50.00	-92	2.70	-7.5
58	Suburban	38.8329	-77.2858	50	50.00	-92	2.70	-7.5
59	Suburban	39.1009	-77.1993	50	50.00	-92	2.70	-7.5
60	Suburban	39.1552	-77.2226	50	50.00	-92	2.70	-7.5
61	Rural	39.2952	-77.7042	100	62.04	-95	2.40	-5
62	Rural	39.3203	-77.9623	100	62.04	-95	2.40	-5
63	Rural	39.1351	-77.8307	100	62.04	-95	2.40	-5
64	Rural	39.4148	-77.8233	100	62.04	-95	2.40	-5
65	Rural	39.4823	-77.1931	100	62.04	-95	2.40	-5
66	Rural	39.4109	-77.6248	100	62.04	-95	2.40	-5
67	Rural	39.6791	-77.3717	100	62.04	-95	2.40	-5
68	Rural	39.6540	-77.4735	100	62.04	-95	2.40	-5
69	Rural	39.5170	-77.4784	100	62.04	-95	2.40	-5
70	Rural	39.2856	-77.2104	100	62.04	-95	2.40	-5
71	Rural	39.2856	-77.2080	100	62.04	-95	2.40	-5
72	Rural	39.3471	-77.4065	100	62.04	-95	2.40	-5
73	Rural	39.3682	-77.5181	100	62.04	-95	2.40	-5
74	Rural	39.1877	-77.5752	100	62.04	-95	2.40	-5
75	Rural	39.1954	-77.3519	100	62.04	-95	2.40	-5
76	Rural	39.0207	-77.4238	100	62.04	-95	2.40	-5
77	Rural	39.0322	-77.6471	100	62.04	-95	2.40	-5
78	Rural	39.0341	-77.8307	100	62.04	-95	2.40	-5
79	Rural	38.9535	-78.0218	100	62.04	-95	2.40	-5
80	Rural	39.1724	-77.0616	100	62.04	-95	2.40	-5
81	Rural	39.0706	-76.8283	100	62.04	-95	2.40	-5
82	Rural	38.8882	-76.7365	100	62.04	-95	2.40	-5
83	Rural	38.7308	-77.0839	100	62.04	-95	2.40	-5
84	Rural	38.7192	-76.8581	100	62.04	-95	2.40	-5
85	Rural	38.8632	-77.8407	100	62.04	-95	2.40	-5
86	Rural	38.9112	-77.6695	100	62.04	-95	2.40	-5
87	Rural	38.7960	-78.1930	100	62.04	-95	2.40	-5
88	Rural	38.7672	-78.2352	100	62.04	-95	2.40	-5
89	Rural	38.6487	-78.3246	100	62.04	-95	2.40	-5
90	Rural	38.7406	-78.2885	100	62.04	-95	2.40	-5
91	Rural	38.7781	-77.9543	100	62.04	-95	2.40	-5
92	Rural	38.6356	-78.0024	100	62.04	-95	2.40	-5
93	Rural	38.5174	-78.0841	100	62.04	-95	2.40	-5
94	Rural	38.7237	-77.7956	100	62.04	-95	2.40	-5
95	Rural	38.7331	-77.5816	100	62.04	-95	2.40	-5
96	Rural	38.8794	-77.4277	100	62.04	-95	2.40	-5
97	Rural	38.7518	-77.3075	100	62.04	-95	2.40	-5
98	Rural	38.6656	-77.4734	100	62.04	-95	2.40	-5
99	Rural	38.5699	-77.6706	100	62.04	-95	2.40	-5
100	Rural	38.5512	-77.8653	100	62.04	-95	2.40	-5
101	Rural	38.3955	-77.9880	100	62.04	-95	2.40	-5
102	Rural	38.4236	-77.7427	100	62.04	-95	2.40	-5
103	Rural	38.5718	-77.3219	100	62.04	-95	2.40	-5
104	Rural	38.4987	-77.4974	100	62.04	-95	2.40	-5
105	Rural	38.3580	-77.5191	100	62.04	-95	2.40	-5
106	Rural	38.3655	-77.3099	100	62.04	-95	2.40	-5
107	Rural	38.5343	-76.7857	100	62.04	-95	2.40	-5
108	Rural	38.4405	-77.1151	100	62.04	-95	2.40	-5
109	Rural	38.5755	-77.0334	100	62.04	-95	2.40	-5
110	Rural	38.6937	-76.6198	100	62.04	-95	2.40	-5

ID	TYPE	LAT	LON	TXHEIGHT	POWER	CONTOUR	LOSS SLOPE	ACCESS FACTOR
111	Rural	38.5249	-76.5477	100	62.04	-95	2.40	-5
112	Rural	38.3786	-76.9011	100	62.04	-95	2.40	-5
113	Rural	38.3317	-76.4635	100	62.04	-95	2.40	-5
114	Rural	38.1611	-76.4395	100	62.04	-95	2.40	-5
115	Rural	38.3111	-76.6919	100	62.04	-95	2.40	-5

Microwave Effect - Sorted by Power Difference - 100 Watt Design
Block C

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WNEN376	WNEN377	1960	D	-86.64	-19.59	-67.05		1754	105	7	93	4	0	1
KIB78	KIR67	1975	A	-105.00	-45.69	-49.21	200	945	28	0	11	4	9	4
WNTL678	WNTM952	1960	A	-98.37	-37.11	-45.86	151	2782	58	0	0	1	43	14
WNTL678	COOPER	1960	A	-91.39	-35.00	-45.40	151	2042	85	1	39	45	0	0
WNEV214	WGY346	1970	D	-86.33	-43.05	-43.28		593	61	37	24	0	0	0
WIU53	WIU52	1955	A	-88.06	-37.79	-40.17	151	475	20	2	12	2	3	1
WNEN377	WNEN376	1880	D	-86.64	-47.55	-39.09		226	23	10	13	0	0	0
WNEP341	WNEO238	1975	D	-67.31	-32.54	-34.77		120	4	1	0	3	0	0
KID29	KID34	1945	A	-97.58	-50.52	-32.77	151	724	23	3	5	7	0	8
WNEV214	WNEV215	1960	D	-83.68	-51.09	-32.59		450	53	48	5	0	0	0
KID29	KGC97	1985	A	-98.55	-56.42	-27.84	200	1899	50	1	7	17	5	20
WIU50	WIU51	1955	A	-87.52	-53.99	-23.42	151	382	27	5	22	0	0	0
WNEP339	WNEO238	1955	D	-72.20	-50.72	-21.48		37	2	0	2	0	0	0
WIA741	WIA740	1985	A	-70.82	-35.14	-21.40	200	69	3	1	1	0	0	1
WAY533	WAY534	1945	A	-80.05	-44.50	-21.27	151	237	5	0	0	1	1	3
WIU53	WIU51	1965	A	-82.70	-44.49	-21.22	151	700	14	0	0	0	0	14
KGC97	KID29	1905	A	-98.55	-62.22	-20.05	200	164	4	0	1	0	0	3
WNER298	WIA649	1935	A	-82.17	-48.07	-20.01	151	409	10	1	0	3	0	6
KRN46	WQH57	1885	A	-100.00	-64.61	-18.40	151	500	10	0	0	0	0	10
KIC94	KID34	1985	A	-100.10	-67.84	-17.98	200	150	3	0	0	0	0	3
WNTM952	WNTL678	1880	A	-95.37	-62.40	-17.44	151	148	4	0	0	3	0	1
WIU52	WIU53	1875	A	-88.06	-60.65	-17.23	151	136	17	11	6	0	0	0
WBH456	WAY532	1955	A	-83.13	-55.90	-17.12	151	103	8	2	6	0	0	0
WNEO238	WNEP341	1895	D	-67.31	-51.61	-15.70		2	1	1	0	0	0	0
WQH57	WPZ68	1965	A	-85.73	-55.30	-13.45	151	350	7	0	0	0	0	7
WIA649	WNER298	1855	A	-82.17	-53.26	-12.12	151	50	1	0	0	0	0	1
WNEY472	WNEY469	1975	A	-75.29	-53.11	-12.07	200	37	4	3	1	0	0	0
KGC99	KGC98	1965	A	-97.08	-68.79	-11.30	151	100	2	0	0	0	0	2
WED833	WED828	1895	A	-90.67	-69.67	-10.89	200	21	4	3	1	0	0	0
KIR67	KIB78	1885	A	-105.00	-77.46	-10.55	151	100	2	0	0	0	0	2
WIA741	WIA742	1935	A	-76.41	-51.82	-10.47	151	50	1	0	0	0	0	1
WNEY472	WNEY470	1965	A	-73.14	-46.19	-9.96	151	100	2	0	0	0	0	2
WNER321	WIU51	1975	A	-78.02	-58.22	-9.69	200	20	4	3	1	0	0	0
WIU50	WIU54	1985	A	-82.21	-59.03	-8.89	200	65	2	0	1	0	1	0
WAY532	WBH456	1875	A	-79.13	-59.09	-8.56	151	16	1	0	1	0	0	0
WED828	WED833	1975	A	-90.67	-72.20	-8.36	200	25	2	0	2	0	0	0
WNEO238	WNEP339	1875	D	-72.20	-64.40	-7.80		0	0	0	0	0	0	0
WIU51	WIU53	1885	A	-82.70	-58.51	-7.20	151	100	2	0	0	0	0	2
WAY533	WAY532	1985	A	-88.03	-67.62	-6.12	200	18	1	0	1	0	0	0
WQH57	KRN46	1945	A	-100.00	-80.54	-5.17	151	0	0	0	0	0	0	0
WNTI984	WNTI985	1980	A	-101.10	-84.11	-4.53	200	0	0	0	0	0	0	0
KID34	KIC94	1905	A	-100.10	-80.29	-4.26	200	14	1	0	1	0	0	0
WIA714	WIA718	1885	A	-75.56	-55.33	-3.24	151	50	1	0	0	0	0	1
KID34	KID29	1865	A	-97.58	-80.36	-2.68	151	0	0	0	0	0	0	0
WED832	WED831	1865	A	-93.49	-76.24	-2.49	151	0	0	0	0	0	0	0
WNTI984	WNTI983	1950	A	-95.48	-80.68	-2.35	151	0	0	0	0	0	0	0
WNEY470	WNEY472	1885	A	-73.14	-54.46	-1.69	151	0	0	0	0	0	0	0
WNEY471	WNEY469	1955	A	-71.12	-61.13	0.11	151	0	0	0	0	0	0	0
WED831	WED832	1925	A	-92.49	-78.89	0.96	151	0	0	0	0	0	0	0
WNEY468	WNEY473	1965	A	-71.45	-55.82	1.36	151	0	0	0	0	0	0	0
WGY346	WNEV214	1890	D	-86.33	-87.88	1.55		0	0	0	0	0	0	0
WIA742	WIA741	1855	A	-76.41	-61.85	2.30	151	0	0	0	0	0	0	0
WIU53	WHH693	1945	A	-74.74	-62.90	2.45	151	0	0	0	0	0	0	0
WIU51	WIU50	1875	A	-87.52	-80.37	3.24	151	0	0	0	0	0	0	0
WNES290	WNES289	1960	D	-77.04	-80.29	3.25		0	0	0	0	0	0	0
WNEV215	WNEV214	1880	D	-83.68	-87.46	3.78		0	0	0	0	0	0	0
WNES289	WNES290	1880	D	-79.04	-84.03	4.99		0	0	0	0	0	0	0
WIW89	WEF361	1935	A	-89.11	-80.31	5.28	151	0	0	0	0	0	0	0
WAY532	WAY533	1905	A	-88.03	-77.79	5.52	200	0	0	0	0	0	0	0
WIU54	WAM281	1945	A	-80.90	-72.41	5.80	151	0	0	0	0	0	0	0

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WNER321	WIA 12	1945	A	-83.10	- 4.63	5.81	151	0	0	0	0	0	0	0
WIA 16	KGM 1	1955	A	- .02	- 3.52	6.60	151	0	0	0	0	0	0	0
KGC98	KGC99	1905	A	-9 .08	-89.54	6. 5	200	0	0	0	0	0	0	0
KIB9	WIK9	19 5	A	-100.00	-99.2	6.93	200	0	0	0	0	0	0	0
KXU40	KXU39	1885	A	- .22	-68.42	8.19	151	0	0	0	0	0	0	0
WNER429	WNER428	1985	A	-80.65	- 4.56	8.20	200	0	0	0	0	0	0	0
WAM281	WIU54	1865	A	-80.90	- 4.05	8.26	151	0	0	0	0	0	0	0
WED828	WED832	1935	A	-88.0	-83.26	9.34	151	0	0	0	0	0	0	0
KGC9	KGC99	1935	A	-8 .56	-83.26	9. 9	151	0	0	0	0	0	0	0
WAY534	WAY533	1855	A	-80.05	- 5.99	12.46	151	0	0	0	0	0	0	0
WIU54	WIU50	1905	A	-82.21	- 8.51	12.51	200	0	0	0	0	0	0	0
WIU51	WNER321	1895	A	- 8.02	-80.56	12.86	200	0	0	0	0	0	0	0
KGM 1	KXU39	1895	A	-89.81	-93.08	13.88	200	0	0	0	0	0	0	0
KGC80	KXU3	18 5	A	- 6.0	- 9.88	13.92	151	0	0	0	0	0	0	0
WHH693	WIU53	1865	A	- 4. 4	- 2.10	14.22	151	0	0	0	0	0	0	0
WNEY469	WNEY4 2	1895	A	- 5.29	- 9.20	14.5	200	0	0	0	0	0	0	0
KXU39	KGM 1	19 5	A	-89.81	-96.51	16.82	200	0	0	0	0	0	0	0
WIA 18	WIA 14	1965	A	- 5.56	- 5.44	16.8	151	0	0	0	0	0	0	0
BULLRUNM	INDEPEN	1940	A	-105.00	-109.93	1 .41	151	0	0	0	0	0	0	0
WNEY468	WNEY4 0	1955	A	-64.15	- 2.43	18.38	151	0	0	0	0	0	0	0
WIA 40	WIA 41	1905	A	- 0.82	- 3. 0	18.	200	0	0	0	0	0	0	0
WNEY469	WNEY4 1	18 5	A	- 2.12	-80.14	18.93	151	0	0	0	0	0	0	0
KGG24	WIA 13	19 5	A	- 4.06	-83.16	19.21	200	0	0	0	0	0	0	0
WIA 13	KGG24	18 5	A	- 4.06	-84.39	20.43	151	0	0	0	0	0	0	0
WIA 18	WAM281	19 5	A	-58.20	-68.89	20. 9	200	0	0	0	0	0	0	0
INDEPEND	BULLRUN	1860	A	-105.00	-108.82	20.81	151	0	0	0	0	0	0	0
WEF361	WIW89	1855	A	-89.11	-94.04	21.90	151	0	0	0	0	0	0	0
WNTI983	WNTI984	18 0	A	-95.48	-102.44	23.65	151	0	0	0	0	0	0	0
WNEY4 1	WNEY4 3	1945	A	-69.18	- 8. 0	23.81	151	0	0	0	0	0	0	0
KGM 1	WIA 16	18 5	A	- .02	-90.38	23.88	151	0	0	0	0	0	0	0
KGC99	KGC9	1855	A	-8 .56	-96.64	24.0	151	0	0	0	0	0	0	0
WIA 12	WNER321	1865	A	-83.10	-92.9	24.98	151	0	0	0	0	0	0	0
WNTI982	WNTI983	1940	A	-105.00	-118.	26.25	151	0	0	0	0	0	0	0
WIA 12	WLR54	18 5	A	- 4.22	-90. 8	26.6	151	0	0	0	0	0	0	0
WNTI985	WNTI984	1860	A	-101.10	-111.1	2 .06	151	0	0	0	0	0	0	0
WNER428	WNER429	1905	A	- 6.65	-88.22	2 .65	200	0	0	0	0	0	0	0
KGC80	KGG24	1865	A	- 6.25	-90.83	28.86	151	0	0	0	0	0	0	0
WIA 18	KGM 1	1945	A	- .20	-92.03	29.12	151	0	0	0	0	0	0	0
WED832	WED828	1855	A	-89.0	-101.52	29.42	151	0	0	0	0	0	0	0
WPZ68	WQH5	1905	A	-85. 3	-101.13	31.34	200	0	0	0	0	0	0	0
KGG24	KGC80	1945	A	- 6.25	-94.25	32.29	151	0	0	0	0	0	0	0
WNTI983	WNTI982	1860	A	-105.00	-120.45	32.44	151	0	0	0	0	0	0	0
WNEP340	WNEO238	1935	D	-69.64	-104.45	34.81		0	0	0	0	0	0	0
WNEY4 3	WNEY468	1885	A	- 1.45	-89.43	34.9	151	0	0	0	0	0	0	0
WIK9	KIB9	1895	A	-100.00	-125.39	36.99	200	0	0	0	0	0	0	0
KXU39	KXU40	1965	A	- .22	-99.26	39.03	151	0	0	0	0	0	0	0
KXU3	KGI31	1965	A	-63.80	-86. 2	39.91	151	0	0	0	0	0	0	0
WIA 12	WIA 15	1855	A	-84.59	-108.03	40.43	151	0	0	0	0	0	0	0
WIA 15	WIA 1	1965	A	-64.96	-89.22	41.25	151	0	0	0	0	0	0	0
KGM 1	WIA 18	1865	A	- .20	-104.20	43.99	151	0	0	0	0	0	0	0
WIA 15	WIA 12	1935	A	-84.59	-114.61	44.10	151	0	0	0	0	0	0	0
WNEY4 3	WNEY4 1	1865	A	-69.18	-98.16	44.94	151	0	0	0	0	0	0	0
WNEY4 0	WNEY468	18 5	A	-63.15	-101.19	48.15	151	0	0	0	0	0	0	0
WNTB536	WNTB535	18 0	D	-103.50	-999.00	895.50		0	0	0	0	0	0	0
WNTB535	WNTB536	1950	D	-99.58	-999.00	899.42		0	0	0	0	0	0	0
WNTJ499	WNTJ500	1940	D	-81.36	-999.00	91 .64		0	0	0	0	0	0	0
WNTJ500	WNTJ499	1860	D	-81.36	-999.00	91 .64		0	0	0	0	0	0	0
KXU39	WIA 13	1945	A	- 9.96	-999.00	919.04	151	0	0	0	0	0	0	0
WIA 13	KXU39	1865	A	- 9.96	-999.00	919.04	151	0	0	0	0	0	0	0
KXU3	KGC80	1955	A	- 6.0	-999.00	922.93	151	0	0	0	0	0	0	0

Microwave Effect - Sorted by Power Difference - 100 Watt Design
Block C

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WLR54	WIA712	1955	A	-74.22	-999.00	924.78	151	0	0	0	0	0	0	0
WNEW511	WNTI982	1900	A	-73.27	-999.00	925.73	151	0	0	0	0	0	0	0
WNTI982	WNEW51	1980	A	-73.27	-999.00	925.73	151	0	0	0	0	0	0	0
WNEO238	WNEP340	1855	D	-69.64	-999.00	929.36		0	0	0	0	0	0	0
WIA717	WIA715	1885	A	-64.96	-999.00	934.04	151	0	0	0	0	0	0	0
KGI31	KXU37	1885	A	-63.80	-999.00	935.20	151	0	0	0	0	0	0	0
KGC80	WIA715	1905	A	-59.99	-999.00	939.01	151	0	0	0	0	0	0	0
WIA715	KGC80	1985	A	-59.99	-999.00	939.01	151	0	0	0	0	0	0	0
WAM281	WIA718	1895	A	-58.20	-999.00	940.80	151	0	0	0	0	0	0	0
WNEY610	WNEZ453	1875	A	-37.74	-999.00	961.26	151	0	0	0	0	0	0	0
WNEZ453	WNEY610	1955	A	-34.74	-999.00	964.26	151	0	0	0	0	0	0	0
WNES289	WNES288	1860	D	-27.99	-999.00	971.01		0	0	0	0	0	0	0
WNES288	WNES289	1940	D	-25.99	-999.00	973.01		0	0	0	0	0	0	0
								16163	655	140	256	90	62	107

Microwave Effect - Sorted by Power Difference - 1000 Watt Design
Block C

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WNEN376	WNEN377	1960	D	-86.64	-7.40	-79.24		928	46	1	39	3	2	1
WNTL678	WNTM952	1960	A	-98.37	-38.19	-44.78	151	1251	26	0	0	1	12	13
WIU53	WIU52	1955	A	-88.06	-36.59	-41.36	151	458	16	3	6	0	4	3
WNTL678	COOPER	1960	A	-91.39	-39.07	-41.33	151	955	37	0	11	26	0	0
KIB78	KIR67	1975	A	-105.00	-54.93	-39.96	200	530	12	0	2	0	5	5
WNEV214	WGY346	1970	D	-86.33	-50.67	-35.66		309	27	5	22	0	0	0
WNEV214	WNEV215	1960	D	-83.68	-49.74	-33.94		244	24	13	11	0	0	0
WNEN377	WNEN376	1880	D	-86.64	-54.64	-32.00		98	9	5	4	0	0	0
WIU53	WIU51	1965	A	-82.70	-34.16	-31.55	151	450	9	0	0	0	0	9
KID29	KID34	1945	A	-97.58	-54.20	-29.09	151	690	21	3	4	3	3	8
KID29	KGC97	1985	A	-98.55	-56.08	-28.19	200	793	16	0	0	0	2	14
WNEP339	WNEO238	1955	D	-72.20	-49.33	-22.87		61	3	0	2	1	0	0
WNEP341	WNEO238	1975	D	-67.31	-45.53	-21.78		39	2	0	1	1	0	0
WIU50	WIU51	1955	A	-87.52	-55.68	-21.74	151	209	14	3	11	0	0	0
WQH57	WPZ68	1965	A	-85.73	-48.50	-20.24	151	500	10	0	0	0	0	10
WBH456	WAY532	1955	A	-83.13	-53.03	-19.99	151	118	8	2	6	0	0	0
WNER298	WIA649	1935	A	-82.17	-48.09	-19.99	151	277	6	0	0	1	0	5
KRN46	WQH57	1885	A	-100.00	-64.67	-18.34	151	500	10	0	0	0	0	10
WED828	WED833	1975	A	-90.67	-62.44	-18.13	200	93	7	2	5	0	0	0
WAY533	WAY534	1945	A	-80.05	-49.18	-16.58	151	150	3	0	0	0	0	3
WIA741	WIA740	1985	A	-70.82	-40.00	-16.53	200	109	4	1	1	0	1	1
WIU52	WIU53	1875	A	-88.06	-61.24	-15.58	151	66	5	4	0	0	0	1
WQH57	KRN46	1945	A	-100.00	-70.75	-14.96	151	194	7	3	0	1	0	3
KIR67	KIB78	1885	A	-105.00	-74.10	-13.91	151	150	3	0	0	0	0	3
WED833	WED828	1895	A	-90.67	-69.14	-11.43	200	32	3	1	2	0	0	0
WNEY472	WNEY469	1975	A	-75.29	-54.29	-10.90	200	33	3	1	2	0	0	0
WAY533	WAY532	1985	A	-88.03	-62.88	-10.87	200	50	1	0	0	0	0	1
WNEO238	WNEP339	1875	D	-72.20	-61.96	-10.24		0	0	0	0	0	0	0
WED832	WED831	1865	A	-93.49	-67.93	-8.84	151	50	1	0	0	0	0	1
KGC97	KID29	1905	A	-98.55	-75.16	-6.87	200	50	1	0	0	0	0	1
WNEO238	WNEP341	1895	D	-67.31	-61.50	-5.81		0	0	0	0	0	0	0
WNEY472	WNEY470	1965	A	-73.14	-50.42	-5.73	151	50	1	0	0	0	0	1
WIA741	WIA742	1935	A	-76.41	-56.94	-5.38	151	6	1	1	0	0	0	0
WNER321	WIU51	1975	A	-78.02	-62.55	-5.37	200	0	0	0	0	0	0	0
WIU53	WHH693	1945	A	-74.74	-55.66	-4.80	151	30	1	0	0	1	0	0
WAY532	WAY533	1905	A	-88.03	-66.77	-4.38	200	50	1	0	0	0	0	1
WIW89	WEF361	1935	A	-89.11	-73.24	-1.78	151	0	0	0	0	0	0	0
WED831	WED832	1925	A	-92.49	-77.15	-0.79	151	0	0	0	0	0	0	0
KID34	KID29	1865	A	-97.58	-82.69	0.92	151	0	0	0	0	0	0	0
WNTM952	WNTL678	1880	A	-95.37	-80.83	1.26	151	0	0	0	0	0	0	0
KID34	KIC94	1905	A	-100.10	-84.82	1.56	200	0	0	0	0	0	0	0
WNEY470	WNEY472	1885	A	-73.14	-58.60	2.45	151	0	0	0	0	0	0	0
WIU50	WIU54	1985	A	-82.21	-70.71	2.79	200	0	0	0	0	0	0	0
WAY532	WBH456	1875	A	-79.13	-71.35	3.95	151	0	0	0	0	0	0	0
WNEY471	WNEY469	1955	A	-71.12	-65.20	4.19	151	0	0	0	0	0	0	0
WNES290	WNES289	1960	D	-77.04	-81.51	4.47		0	0	0	0	0	0	0
WNTI984	WNTI983	1950	A	-95.48	-89.04	6.01	151	0	0	0	0	0	0	0
KGC97	KGC99	1935	A	-87.56	-79.90	6.42	151	0	0	0	0	0	0	0
WIA742	WIA741	1855	A	-76.41	-65.93	6.48	151	0	0	0	0	0	0	0
WNTI984	WNTI985	1980	A	-101.10	-95.22	6.58	200	0	0	0	0	0	0	0
KXU40	KXU39	1885	A	-77.22	-67.01	6.78	151	0	0	0	0	0	0	0
WIU51	WIU53	1885	A	-82.70	-73.44	7.73	151	0	0	0	0	0	0	0
KIC94	KID34	1985	A	-100.10	-93.90	8.10	200	0	0	0	0	0	0	0
WIU54	WAM281	1945	A	-80.90	-75.05	8.44	151	0	0	0	0	0	0	0
KGC98	KGC99	1905	A	-97.08	-91.72	8.92	200	0	0	0	0	0	0	0
KIB97	WIK97	1975	A	-100.00	-101.37	9.03	200	0	0	0	0	0	0	0
KGC99	KGC98	1965	A	-97.08	-89.16	9.07	151	0	0	0	0	0	0	0
WNER321	WIA712	1945	A	-83.10	-78.86	10.04	151	0	0	0	0	0	0	0
WGY346	WNEV214	1890	D	-86.33	-96.41	10.08		0	0	0	0	0	0	0
WNEV215	WNEV214	1880	D	-83.68	-94.13	10.45		0	0	0	0	0	0	0

Microwave Effect - Sorted by Power Difference - 1000 Watt Design
Block C

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WIU51	WIU50	1875	A	-87.52	-88.07	11.25	151	0	0	0	0	0	0	0
KXU39	KGM71	1975	A	-89.81	-92.46	12.76	200	0	0	0	0	0	0	0
WNER429	WNER428	1985	A	-80.65	-80.31	13.95	200	0	0	0	0	0	0	0
WEF361	WIW89	1855	A	-89.11	-86.20	14.08	151	0	0	0	0	0	0	0
KGG24	WIA713	1975	A	-74.06	-79.76	15.80	200	0	0	0	0	0	0	0
KGM71	KXU39	1895	A	-89.81	-92.26	15.99	200	0	0	0	0	0	0	0
WAY534	WAY533	1855	A	-80.05	-79.97	16.89	151	0	0	0	0	0	0	0
WIA649	WNER298	1855	A	-82.17	-82.45	17.25	151	0	0	0	0	0	0	0
WIA714	WIA718	1885	A	-75.56	-76.02	17.45	151	0	0	0	0	0	0	0
BULLRUNM	INDEPEN	1940	A	-105.00	-112.34	19.83	151	0	0	0	0	0	0	0
WIA718	WAM281	1975	A	-58.20	-68.37	20.27	200	0	0	0	0	0	0	0
WIU54	WIU50	1905	A	-82.21	-85.56	20.29	200	0	0	0	0	0	0	0
WED828	WED832	1935	A	-88.07	-94.26	21.12	151	0	0	0	0	0	0	0
WIU51	WNER321	1895	A	-78.02	-88.39	21.16	200	0	0	0	0	0	0	0
WIA740	WIA741	1905	A	-70.82	-75.26	21.42	200	0	0	0	0	0	0	0
WNEY468	WNEY473	1965	A	-71.45	-76.15	21.69	151	0	0	0	0	0	0	0
WAM281	WIU54	1865	A	-80.90	-88.34	21.86	151	0	0	0	0	0	0	0
WNEY469	WNEY472	1895	A	-75.29	-84.54	22.07	200	0	0	0	0	0	0	0
WED832	WED828	1855	A	-89.07	-94.86	22.76	151	0	0	0	0	0	0	0
WHH693	WIU53	1865	A	-74.74	-81.15	23.38	151	0	0	0	0	0	0	0
KGM71	WIA716	1875	A	-77.02	-85.37	23.53	151	0	0	0	0	0	0	0
WNEY469	WNEY471	1875	A	-72.12	-83.10	23.68	151	0	0	0	0	0	0	0
WIA718	WIA714	1965	A	-75.56	-82.26	23.69	151	0	0	0	0	0	0	0
WNEY468	WNEY470	1955	A	-64.15	-77.86	23.82	151	0	0	0	0	0	0	0
KGC80	KGG24	1865	A	-76.25	-85.88	23.91	151	0	0	0	0	0	0	0
WNEY471	WNEY473	1945	A	-69.18	-79.24	24.35	151	0	0	0	0	0	0	0
WNES289	WNES290	1880	D	-79.04	-104.22	25.18		0	0	0	0	0	0	0
WPZ68	WQH57	1905	A	-85.73	-95.87	26.78	200	0	0	0	0	0	0	0
WNTI982	WNTI983	1940	A	-105.00	-121.29	28.78	151	0	0	0	0	0	0	0
WIA716	KGM71	1955	A	-77.02	-96.55	29.63	151	0	0	0	0	0	0	0
KGG24	KGC80	1945	A	-76.25	-92.72	30.76	151	0	0	0	0	0	0	0
WIA712	WLR54	1875	A	-74.22	-94.97	30.86	151	0	0	0	0	0	0	0
KGC80	KXU37	1875	A	-76.07	-97.23	31.27	151	0	0	0	0	0	0	0
WNTI983	WNTI982	1860	A	-105.00	-119.62	31.61	151	0	0	0	0	0	0	0
WNER428	WNER429	1905	A	-76.65	-91.77	31.89	200	0	0	0	0	0	0	0
INDEPEND	BULLRUN	1860	A	-105.00	-120.34	32.33	151	0	0	0	0	0	0	0
WIA713	KGG24	1875	A	-74.06	-97.18	33.23	151	0	0	0	0	0	0	0
KXU39	KXU40	1965	A	-77.22	-93.84	33.61	151	0	0	0	0	0	0	0
WNTI983	WNTI984	1870	A	-95.48	-113.71	35.22	151	0	0	0	0	0	0	0
WIA712	WNER321	1865	A	-83.10	-103.10	36.09	151	0	0	0	0	0	0	0
KGC99	KGC97	1855	A	-87.56	-110.92	37.45	151	0	0	0	0	0	0	0
KGM71	WIA718	1865	A	-77.20	-98.69	38.48	151	0	0	0	0	0	0	0
WIA718	KGM71	1945	A	-77.20	-104.08	41.17	151	0	0	0	0	0	0	0
WIA712	WIA715	1855	A	-84.59	-112.08	43.77	151	0	0	0	0	0	0	0
KXU39	WIA713	1945	A	-79.96	-110.03	44.36	151	0	0	0	0	0	0	0
WIK97	KIB97	1895	A	-100.00	-131.07	48.06	151	0	0	0	0	0	0	0
WNEY473	WNEY468	1885	A	-71.45	-103.89	49.43	151	0	0	0	0	0	0	0
KXU37	KGI31	1965	A	-63.80	-96.54	49.73	151	0	0	0	0	0	0	0
WNTB536	WNTB535	1870	D	-103.50	-999.00	895.50		0	0	0	0	0	0	0
WNTI985	WNTI984	1860	A	-101.10	-999.00	897.90	151	0	0	0	0	0	0	0
WNTB535	WNTB536	1950	D	-99.58	-999.00	899.42		0	0	0	0	0	0	0
WIA715	WIA712	1935	A	-84.59	-999.00	914.41	151	0	0	0	0	0	0	0
WNTJ500	WNTJ499	1860	D	-81.36	-999.00	917.64		0	0	0	0	0	0	0
WNTJ499	WNTJ500	1940	D	-81.36	-999.00	917.64		0	0	0	0	0	0	0
WIA713	KXU39	1865	A	-79.96	-999.00	919.04	151	0	0	0	0	0	0	0
KXU37	KGC80	1955	A	-76.07	-999.00	922.93	151	0	0	0	0	0	0	0
WLR54	WIA712	1955	A	-74.22	-999.00	924.78	151	0	0	0	0	0	0	0
WNTI982	WNEW51	1980	A	-73.27	-999.00	925.73	151	0	0	0	0	0	0	0
WNEW511	WNTI982	1900	A	-73.27	-999.00	925.73	151	0	0	0	0	0	0	0
WNEP340	WNEO238	1935	D	-69.64	-999.00	929.36		0	0	0	0	0	0	0

Microwave Effect - Sorted by Power Difference - 1000 Watt Design
Block C

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-10	11-25	25-40	40-49	50
WNEO238	WNEP340	1855	D	-69.64	-999.00	929.36		0	0	0	0	0	0	0
WNEY473	WNEY471	1865	A	-69.18	-999.00	929.82	151	0	0	0	0	0	0	0
WIA717	WIA715	1885	A	-64.96	-999.00	934.04	151	0	0	0	0	0	0	0
WIA715	WIA717	1965	A	-64.96	-999.00	934.04	151	0	0	0	0	0	0	0
KGI31	KXU37	1885	A	-63.80	-999.00	935.20	151	0	0	0	0	0	0	0
WNEY470	WNEY468	1875	A	-63.15	-999.00	935.85	151	0	0	0	0	0	0	0
WIA715	KGC80	1985	A	-59.99	-999.00	939.01	151	0	0	0	0	0	0	0
KGC80	WIA715	1905	A	-59.99	-999.00	939.01	151	0	0	0	0	0	0	0
WAM281	WIA718	1895	A	-58.20	-999.00	940.80	151	0	0	0	0	0	0	0
WNEY610	WNEZ453	1875	A	-37.74	-999.00	961.26	151	0	0	0	0	0	0	0
WNEZ453	WNEY610	1955	A	-34.74	-999.00	964.26	151	0	0	0	0	0	0	0
WNES289	WNES288	1860	D	-27.99	-999.00	971.01		0	0	0	0	0	0	0
WNES288	WNES289	1940	D	-25.99	-999.00	973.01		0	0	0	0	0	0	0
								9523	338	48	129	38	29	94

Microwave Effect - Sorted by Power Difference - 100 Watt Design - Block D

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WEH396	WEH397	2133	A	-120.75	-37.80	-74.02	16	1658	93	2	23	36	9	23
KNS90	KFG79	2135	A	-109.51	-46.58	-56.01	25	227	19	2	8	8	1	0
KDQ69	KMV86	2135	A	-99.99	-39.26	-53.81	25	402	26	0	3	23	0	0
WNTL680	WNTL679	2183	A	-112.05	-52.45	-50.67	16	2070	109	1	11	46	51	0
WNTL679	WNTL680	2133	A	-112.05	-53.50	-49.62	16	1066	48	0	0	5	42	1
KIB78	KIB97	2133	A	-115.05	-57.16	-48.96	16	578	32	1	10	2	15	4
WGY347	WNTA614	2132	A	-109.97	-55.95	-45.11	9	1787	99	2	2	86	9	0
WNTA614	WGY347	2182	A	-109.97	-56.86	-44.19	9	1735	129	8	54	56	11	0
NONE2	KDQ69	2185	A	-99.99	-51.49	-41.58	25	235	20	0	11	9	0	0
WIA739	WAY533	2133	D	-103.42	-62.43	-40.99		468	30	0	2	28	0	0
WED636	KIB62	2181	A	-114.55	-65.67	-40.39	5	544	58	6	43	9	0	0
WNEU226	WNEU223	2131	A	-104.43	-55.68	-40.26	5	566	47	2	25	20	0	0
KPW60	WIU50	2133	A	-107.57	-58.95	-39.99	13	410	18	1	0	1	6	10
WNTL679	WNTL678	2135	A	-97.29	-50.48	-39.89	25	287	23	0	14	9	0	0
WIA580	WIA579	2136	A	-105.66	-62.98	-39.75	25	113	15	4	11	0	0	0
WNTA615	WNEV214	2135	A	-102.44	-61.46	-34.06	25	76	7	0	6	1	0	0
KIW36	KIB20	2183	A	-105.95	-67.93	-29.09	16	309	28	4	13	11	0	0
WAY533	WIA739	2183	D	-103.42	-74.72	-28.70		56	5	1	2	2	0	0
WNTE246	WNEU225	2132	A	-92.56	-57.16	-26.49	9	84	6	1	1	4	0	0
WCE295	KFX69	2132	A	-109.82	-74.81	-26.09	9	234	18	3	0	15	0	0
WNTA222	WNTA223	2136	A	-119.53	-90.85	-25.75	25	15	2	0	2	0	0	0
WEH397	WEH396	2183	A	-120.75	-86.55	-25.27	16	740	111	42	65	4	0	0
WEG995	WEH202	2133	A	-92.94	-58.74	-25.27	16	90	5	0	0	5	0	0
WNEV214	WNTA615	2185	D	-102.44	-77.27	-25.17		23	3	0	3	0	0	0
KIB62	WED636	2131	A	-114.55	-81.73	-24.33	5	53	5	0	4	1	0	0
WED839	WEH382	2133	D	-96.92	-72.59	-24.33		30	3	0	2	1	0	0
KFX69	WCE295	2182	A	-109.82	-77.66	-23.24	9	212	23	1	20	2	0	0
WNEH740	WAZ567	2183	D	-109.89	-86.91	-22.98		0	0	0	0	0	0	0
WIU50	KPW60	2183	D	-94.30	-72.47	-21.83		14	2	1	0	1	0	0
WIA650	WIA649	2182	D	-99.99	-78.46	-21.53		14	1	0	0	1	0	0
WNEU224	WNEU223	2137	A	-99.52	-84.62	-12.00	25	4	3	3	0	0	0	0
KIR67	KDU80	2186	A	-121.72	-107.33	-11.46	25	1	1	1	0	0	0	0
WNEU223	WNEU226	2181	A	-104.43	-84.79	-11.15	5	8	1	0	1	0	0	0
KJW46	KBE20	2132	D	-97.13	-86.53	-10.60		2	1	1	0	0	0	0
KFG79	KNS90	2185	A	-109.51	-92.08	-10.51	25	4	1	1	0	0	0	0
WIA551	KZK53	2138	A	-87.63	-74.32	-10.41	25	8	4	4	0	0	0	0
WEH382	WED839	2183	D	-96.92	-86.52	-10.40		0	0	0	0	0	0	0
KDU80	WED637	2131	A	-74.33	-55.98	-9.86	5	23	4	2	2	0	0	0
WNEM698	WHC502	2132	A	-56.87	-38.85	-9.11	9	8	1	0	1	0	0	0
WNEM489	WNEM490	2135	A	-94.45	-79.86	-7.68	25	10	2	1	1	0	0	0
KIB97	KIB78	2183	A	-115.05	-100.07	-6.05	16	2	1	1	0	0	0	0
WIA579	WIA580	2186	A	-105.66	-97.30	-5.43	25	2	1	1	0	0	0	0
WNTA223	WNTA222	2186	A	-119.53	-111.29	-5.31	25	0	0	0	0	0	0	0
KDU80	KIR67	2136	A	-121.72	-113.84	-4.95	25	0	0	0	0	0	0	0
KID29	KIU72	2181	A	-95.08	-83.47	-3.12	5	2	1	1	0	0	0	0
WAZ567	WNEH740	2133	D	-109.89	-106.80	-3.09		0	0	0	0	0	0	0
WNEU227	WNEU225	2137	A	-102.77	-97.40	-2.47	25	0	0	0	0	0	0	0
WEH202	WEG995	2183	A	-92.94	-82.83	-1.19	16	0	0	0	0	0	0	0
WNTF906	WNTF903	2185	A	-106.02	-99.44	0.34	25	0	0	0	0	0	0	0
KIU72	KID29	2131	A	-95.08	-87.84	1.25	5	0	0	0	0	0	0	0
KBE20	KJW46	2182	D	-97.13	-98.53	1.40		0	0	0	0	0	0	0
WGY623	WGY621	2134	A	-95.08	-88.74	2.38	20	0	0	0	0	0	0	0
WNTP379	WNTM925	2133	A	-89.00	-83.54	3.47	16	0	0	0	0	0	0	0
WNEU225	WNTE246	2182	A	-92.56	-89.37	5.73	9	0	0	0	0	0	0	0
WNEU225	WNEU227	2187	A	-102.77	-105.83	5.96	25	0	0	0	0	0	0	0
WGY619	WGY620	2184	A	-99.99	-98.33	7.06	20	0	0	0	0	0	0	0
WNTL678	WNTL679	2185	A	-97.29	-98.05	7.68	25	0	0	0	0	0	0	0
WNEU223	WNEU224	2187	A	-99.52	-104.54	7.92	25	0	0	0	0	0	0	0
KBE20	WED839	2188	D	-105.13	-114.99	9.86		0	0	0	0	0	0	0
WNER432	WNER428	2186	A	-102.02	-110.04	10.95	25	0	0	0	0	0	0	0
WGY621	WGY623	2184	A	-95.08	-98.59	12.24	20	0	0	0	0	0	0	0

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WNEM490	WNEM489	2185	A	-94.45	-101.34	13.81	25	0	0	0	0	0	0	0
WHI922	WHI926	2185	A	-93.59	-102.42	15.74	25	0	0	0	0	0	0	0
WNTM925	WNTP379	2183	A	-89.00	-96.52	16.45	16	0	0	0	0	0	0	0
WNEL585	WNEL584	2142	A	-119.17	-129.17	16.74	25	0	0	0	0	0	0	0
KIB61	KIB62	2188	A	-122.57	-138.37	18.70	25	0	0	0	0	0	0	0
WHC502	WNEM698	2182	A	-56.87	-67.03	19.08	9	0	0	0	0	0	0	0
WNTQ317	WNTQ316	2138	A	-92.43	-109.62	20.09	25	0	0	0	0	0	0	0
KIB20	KIW36	2133	A	-105.95	-120.52	23.49	16	0	0	0	0	0	0	0
WED637	KDU80	2181	A	-74.33	-91.51	25.67	5	0	0	0	0	0	0	0
WEH380	WED839	2141	D	-96.05	-121.92	25.87		0	0	0	0	0	0	0
KIB78	WIK97	2140	A	-111.89	-134.72	27.06	25	0	0	0	0	0	0	0
WHI926	WHI922	2135	A	-93.59	-116.95	30.28	25	0	0	0	0	0	0	0
WNTF903	WNTF906	2135	A	-106.02	-129.58	30.47	25	0	0	0	0	0	0	0
WEH380	WED839	2141	D	-91.05	-122.00	30.95		0	0	0	0	0	0	0
KIB62	KIB61	2138	A	-98.45	-127.14	31.60	25	0	0	0	0	0	0	0
WNTQ371	WNTL680	2141	A	-109.08	-135.63	32.97	25	0	0	0	0	0	0	0
WNTM926	WNTM925	2140	A	-110.37	-139.19	33.05	25	0	0	0	0	0	0	0
WNER428	WNER432	2136	A	-102.02	-135.84	36.75	25	0	0	0	0	0	0	0
WNTQ315	WNTQ313	2188	A	-73.95	-108.39	37.35	25	0	0	0	0	0	0	0
WNTM925	WNTF903	2188	A	-106.96	-141.48	37.42	25	0	0	0	0	0	0	0
KIB78	KNP84	2143	A	-120.00	-151.63	38.38	25	0	0	0	0	0	0	0
WIA700	KIR67	2143	A	-117.19	-152.38	41.94	25	0	0	0	0	0	0	0
WEF620	WEH397	2146	A	-135.04	-171.42	43.13	25	0	0	0	0	0	0	0
WEF620	WEF619	2141	A	-109.73	-149.44	46.12	25	0	0	0	0	0	0	0
WHI927	WHI926	2182	A	-74.13	-111.47	46.26	9	0	0	0	0	0	0	0
WEH397	WEF620	2196	A	-135.04	-999.00	863.96	1	0	0	0	0	0	0	0
WNTH879	WNTH878	2198	A	-128.25	-999.00	870.75	1	0	0	0	0	0	0	0
WNTH878	WNTH879	2148	A	-128.25	-999.00	870.75	1	0	0	0	0	0	0	0
KNP84	KIB78	2193	A	-120.00	-999.00	879.00	1	0	0	0	0	0	0	0
WNEL584	WNEL585	2192	A	-119.17	-999.00	879.83	1	0	0	0	0	0	0	0
WNTA223	KIB20	2194	A	-118.60	-999.00	880.40	1	0	0	0	0	0	0	0
KIB20	WNTA223	2144	A	-118.60	-999.00	880.40	1	0	0	0	0	0	0	0
KIR67	WIA700	2193	A	-117.19	-999.00	881.81	1	0	0	0	0	0	0	0
KBE20	WNEV986	2191	D	-116.88	-999.00	882.12		0	0	0	0	0	0	0
WNEW511	WCE295	2191	A	-114.45	-999.00	884.55	1	0	0	0	0	0	0	0
WCE295	WNEW51	2141	A	-114.45	-999.00	884.55	1	0	0	0	0	0	0	0
KRX32	KNP84	2146	A	-113.94	-999.00	885.06	1	0	0	0	0	0	0	0
KNP84	KRX32	2196	A	-113.94	-999.00	885.06	1	0	0	0	0	0	0	0
WIA581	WIA580	2191	A	-112.33	-999.00	886.67	1	0	0	0	0	0	0	0
WIA580	WIA581	2141	A	-112.33	-999.00	886.67	1	0	0	0	0	0	0	0
WNEU269	WNEL584	2148	A	-112.02	-999.00	886.98	1	0	0	0	0	0	0	0
WNEL584	WNEU269	2198	A	-112.02	-999.00	886.98	1	0	0	0	0	0	0	0
WGY622	WGY624	2140	A	-112.00	-999.00	887.00	1	0	0	0	0	0	0	0
WGY624	WGY622	2190	A	-112.00	-999.00	887.00	1	0	0	0	0	0	0	0
WIK97	KIB78	2190	A	-111.89	-999.00	887.11	1	0	0	0	0	0	0	0
WNEV986	KBE20	2141	D	-110.98	-999.00	888.02		0	0	0	0	0	0	0
KRX32	KMV86	2149	A	-110.93	-999.00	888.07	1	0	0	0	0	0	0	0
KMV86	KRX32	2199	A	-110.93	-999.00	888.07	1	0	0	0	0	0	0	0
KNP86	KRQ51	2193	A	-110.54	-999.00	888.46	1	0	0	0	0	0	0	0
KRQ51	KNP86	2143	A	-110.54	-999.00	888.46	1	0	0	0	0	0	0	0
WNET568	WNET569	2144	A	-110.53	-999.00	888.47	1	0	0	0	0	0	0	0
WNET569	WNET568	2194	A	-110.53	-999.00	888.47	1	0	0	0	0	0	0	0
WNTM925	WNTM926	2190	A	-110.37	-999.00	888.63	1	0	0	0	0	0	0	0
KJB62	KNS90	2198	A	-110.34	-999.00	888.66	1	0	0	0	0	0	0	0
KNS90	KJB62	2148	A	-110.34	-999.00	888.66	1	0	0	0	0	0	0	0
KFX69	WNTF903	2196	A	-110.17	-999.00	888.83	1	0	0	0	0	0	0	0
WNTF903	KFX69	2146	A	-110.17	-999.00	888.83	1	0	0	0	0	0	0	0
WEF619	WEF620	2191	A	-109.73	-999.00	889.27	1	0	0	0	0	0	0	0
KJB62	KIB20	2191	A	-109.27	-999.00	889.73	1	0	0	0	0	0	0	0
KIB20	KJB62	2141	A	-109.27	-999.00	889.73	1	0	0	0	0	0	0	0
WNTL680	WNTQ371	2191	A	-109.08	-999.00	889.92	1	0	0	0	0	0	0	0

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WGY623	WGY625	2147	A	-108.73	-999.00	890.27	1	0	0	0	0	0	0	0
WGY625	WGY623	2197	A	-108.73	-999.00	890.27	1	0	0	0	0	0	0	0
WNTF903	WNTM925	2138	A	-106.96	-999.00	892.04	1	0	0	0	0	0	0	0
WGY621	WGY622	2195	A	-105.84	-999.00	893.16	1	0	0	0	0	0	0	0
WGY622	WGY621	2145	A	-105.84	-999.00	893.16	1	0	0	0	0	0	0	0
WED839	KBE20	2138	D	-105.13	-999.00	893.87		0	0	0	0	0	0	0
WNEO775	WBH456	2144	D	-104.69	-999.00	894.31		0	0	0	0	0	0	0
WBH456	WNEO775	2194	D	-104.69	-999.00	894.31		0	0	0	0	0	0	0
WNTC439	KPN66	2148	A	-104.66	-999.00	894.34	1	0	0	0	0	0	0	0
KPN66	WNTC439	2198	A	-104.66	-999.00	894.34	1	0	0	0	0	0	0	0
WED839	WNEN928	2198	D	-104.26	-999.00	894.74		0	0	0	0	0	0	0
WNEN928	WED839	2148	D	-104.26	-999.00	894.74		0	0	0	0	0	0	0
WNEM490	WGY620	2193	A	-103.30	-999.00	895.70	1	0	0	0	0	0	0	0
WGY620	WNEM490	2143	A	-103.30	-999.00	895.70	1	0	0	0	0	0	0	0
WNTP380	KFX69	2140	A	-103.25	-999.00	895.75	1	0	0	0	0	0	0	0
KFX69	WNTP380	2190	A	-103.25	-999.00	895.75	1	0	0	0	0	0	0	0
WNTM926	WNTQ368	2146	A	-102.40	-999.00	896.60	1	0	0	0	0	0	0	0
WNTQ368	WNTM926	2196	A	-102.40	-999.00	896.60	1	0	0	0	0	0	0	0
KBT79	KIB62	2194	A	-102.34	-999.00	896.66	1	0	0	0	0	0	0	0
WNTM580	WNTM581	2147	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
NONE1	WNET570	2193	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
WNET570	WNTA332	2143	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
WEG995	WEG997	2146	A	-99.47	-999.00	899.53	1	0	0	0	0	0	0	0
WEG997	WEG995	2196	A	-99.47	-999.00	899.53	1	0	0	0	0	0	0	0
WGY621	WGY620	2190	A	-99.05	-999.00	899.95	1	0	0	0	0	0	0	0
WGY620	WGY621	2140	A	-99.05	-999.00	899.95	1	0	0	0	0	0	0	0
WED839	WEH380	2191	D	-96.05	-999.00	902.95		0	0	0	0	0	0	0
WEG995	WEG999	2143	A	-95.88	-999.00	903.12	1	0	0	0	0	0	0	0
WEG999	WEG995	2193	A	-95.88	-999.00	903.12	1	0	0	0	0	0	0	0
WHI927	WHI923	2193	A	-92.76	-999.00	906.24	1	0	0	0	0	0	0	0
WHI923	WHI927	2143	A	-92.76	-999.00	906.24	1	0	0	0	0	0	0	0
WNEU223	WNEU227	2195	A	-92.70	-999.00	906.30	1	0	0	0	0	0	0	0
WNEU227	WNEU223	2145	A	-92.70	-999.00	906.30	1	0	0	0	0	0	0	0
WNTQ316	WNTQ317	2188	A	-92.43	-999.00	906.57	1	0	0	0	0	0	0	0
WNEG914	WNEG913	2140	A	-91.98	-999.00	907.02	1	0	0	0	0	0	0	0
WNEG913	WNEG914	2190	A	-91.98	-999.00	907.02	1	0	0	0	0	0	0	0
WNER299	WNER298	2144	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WNER298	WNER299	2194	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WED839	WEH380	2190	D	-91.05	-999.00	907.95		0	0	0	0	0	0	0
WNEP900	KNP86	2137	A	-91.00	-999.00	908.00	1	0	0	0	0	0	0	0
KNP86	WNEP900	2187	A	-91.00	-999.00	908.00	1	0	0	0	0	0	0	0
KZK53	WIA551	2188	A	-87.63	-999.00	911.37	1	0	0	0	0	0	0	0
WHI922	WHI923	2188	A	-85.95	-999.00	913.05	1	0	0	0	0	0	0	0
WHI923	WHI922	2138	A	-85.95	-999.00	913.05	1	0	0	0	0	0	0	0
KMV86	WBM522	2190	A	-85.90	-999.00	913.10	1	0	0	0	0	0	0	0
WBM522	KMV86	2140	A	-85.90	-999.00	913.10	1	0	0	0	0	0	0	0
WNTQ313	WNTQ316	2141	A	-83.01	-999.00	915.99	1	0	0	0	0	0	0	0
WNTQ316	WNTQ313	2191	A	-83.01	-999.00	915.99	1	0	0	0	0	0	0	0
KIB62	KBT79	2144	A	-79.23	-999.00	919.77	1	0	0	0	0	0	0	0
WNTQ314	WNTQ313	2194	A	-78.91	-999.00	920.09	1	0	0	0	0	0	0	0
WNTQ313	WNTQ314	2144	A	-78.91	-999.00	920.09	1	0	0	0	0	0	0	0
WHI926	WHI927	2132	A	-74.13	-999.00	924.87	1	0	0	0	0	0	0	0
WNTQ313	WNTQ315	2138	A	-73.95	-999.00	925.05	1	0	0	0	0	0	0	0
WNEQ701	KRN46	2191	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
KRN46	WNEQ701	2141	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
WED277	WED278	2143	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WED278	WED277	2193	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WGY620	WGY626	2146	A	-46.05	-999.00	952.95	1	0	0	0	0	0	0	0
WGY626	WGY620	2196	A	-46.05	-999.00	952.95	1	0	0	0	0	0	0	0
								14170	1006	98	340	386	144	38

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WEH396	WEH397	2133	A	-120.75	-30.98	-80.85	16	870	56	5	17	22	4	8
KNS90	KFG79	2135	A	-109.51	-39.85	-62.75	25	198	15	1	6	6	2	0
KIB78	KIB97	2133	A	-115.05	-51.91	-54.21	16	303	14	0	3	0	3	8
WNTL680	WNTL679	2183	A	-112.05	-51.03	-52.09	16	1089	51	0	0	21	24	6
WED636	KIB62	2181	A	-114.55	-57.25	-48.81	5	778	77	16	47	12	2	0
WGY347	WNTA614	2132	A	-109.97	-55.18	-45.88	9	912	49	2	1	31	15	0
WNTA614	WGY347	2182	A	-109.97	-55.43	-45.63	9	1133	73	0	16	49	8	0
KDQ69	KMV86	2135	A	-99.99	-51.21	-41.86	25	47	3	0	0	3	0	0
WNTL679	WNTL680	2133	A	-112.05	-61.70	-41.42	16	103	5	0	1	0	4	0
WNEU226	WNEU223	2131	A	-104.43	-57.29	-38.65	5	308	24	0	12	12	0	0
KIW36	KIB20	2183	A	-105.95	-59.04	-37.99	16	451	32	3	8	17	4	0
WIA739	WAY533	2133	D	-103.42	-68.54	-34.88		66	4	0	0	4	0	0
WNTL679	WNTL678	2135	A	-97.29	-55.51	-34.87	25	45	4	1	0	3	0	0
WIA580	WIA579	2136	A	-105.66	-69.10	-33.63	25	20	2	0	2	0	0	0
KIB62	WED636	2131	A	-114.55	-73.27	-32.79	5	64	5	0	2	3	0	0
NONE2	KDQ69	2185	A	-99.99	-61.17	-31.91	25	24	2	0	1	1	0	0
KPW60	WIU50	2133	A	-107.57	-68.34	-30.60	13	25	1	0	0	0	0	1
WNEH740	WAZ567	2183	D	-109.89	-79.32	-30.57		360	59	29	30	0	0	0
WEH397	WEH396	2183	A	-120.75	-85.75	-26.08	16	778	79	3	67	9	0	0
WCE295	KFX69	2132	A	-109.82	-75.94	-24.96	9	40	3	1	0	2	0	0
WIA551	KZK53	2138	A	-87.63	-63.57	-21.15	25	7	1	0	1	0	0	0
WAY533	WIA739	2183	D	-103.42	-82.44	-20.98		20	2	0	1	1	0	0
WED839	WEH382	2133	D	-96.92	-76.18	-20.74		14	1	0	0	1	0	0
KJW46	KBE20	2132	D	-97.13	-78.32	-18.81		14	2	1	1	0	0	0
WEH382	WED839	2183	D	-96.92	-79.54	-17.38		6	3	3	0	0	0	0
KIR67	KDU80	2186	A	-121.72	-103.84	-14.95	25	15	13	13	0	0	0	0
WNEM489	WNEM490	2135	A	-94.45	-72.85	-14.68	25	19	3	2	1	0	0	0
KFX69	WCE295	2182	A	-109.82	-86.68	-14.23	9	30	3	0	2	1	0	0
WAZ567	WNEH740	2133	D	-109.89	-98.24	-11.65		4	1	1	0	0	0	0
KFG79	KNS90	2185	A	-109.51	-90.99	-11.60	25	10	3	3	0	0	0	0
WNEU224	WNEU223	2137	A	-99.52	-85.63	-10.99	25	2	2	2	0	0	0	0
WNTA223	WNTA222	2186	A	-119.53	-106.70	-9.90	25	0	0	0	0	0	0	0
WNEU223	WNEU226	2181	A	-104.43	-86.41	-9.53	5	4	2	2	0	0	0	0
KIB97	KIB78	2183	A	-115.05	-99.50	-6.62	16	0	0	0	0	0	0	0
KDU80	WED637	2131	A	-74.33	-59.68	-6.16	5	11	2	1	1	0	0	0
KDU80	KIR67	2136	A	-121.72	-114.19	-4.60	25	0	0	0	0	0	0	0
WGY623	WGY621	2134	A	-95.08	-82.97	-3.39	20	0	0	0	0	0	0	0
KZK53	WIA551	2188	A	-87.63	-81.79	-2.94	25	1	1	1	0	0	0	0
WNEM698	WHC502	2132	A	-56.87	-46.14	-1.82	9	2	1	1	0	0	0	0
KBE20	KJW46	2182	D	-97.13	-95.97	-1.16		0	0	0	0	0	0	0
WNTF906	WNTF903	2185	A	-106.02	-98.13	-0.97	25	3	1	1	0	0	0	0
WNTE246	WNEU225	2132	A	-92.56	-82.80	-0.84	9	0	0	0	0	0	0	0
WNEU227	WNEU225	2137	A	-102.77	-99.70	-0.17	25	0	0	0	0	0	0	0
WGY619	WGY620	2184	A	-99.99	-91.34	0.07	20	0	0	0	0	0	0	0
WIA650	WIA649	2182	D	-99.99	-100.12	0.13		0	0	0	0	0	0	0
KBE20	WED839	2188	D	-105.13	-108.86	3.73		0	0	0	0	0	0	0
WGY621	WGY623	2184	A	-95.08	-92.12	5.76	20	0	0	0	0	0	0	0
WNEU225	WNTE246	2182	A	-92.56	-89.77	6.13	9	0	0	0	0	0	0	0
WNEM490	WNEM489	2185	A	-94.45	-94.98	7.45	25	0	0	0	0	0	0	0
KID29	KIU72	2181	A	-95.08	-94.79	8.20	5	0	0	0	0	0	0	0
WHI922	WHI926	2185	A	-93.59	-95.84	9.17	25	0	0	0	0	0	0	0
WNTL678	WNTL679	2185	A	-97.29	-100.56	10.19	25	0	0	0	0	0	0	0
WNEU225	WNEU227	2187	A	-102.77	-110.28	10.41	25	0	0	0	0	0	0	0
KIB61	KIB62	2188	A	-122.57	-132.09	12.42	25	0	0	0	0	0	0	0
WNTP379	WNTM925	2133	A	-89.00	-94.18	14.11	16	0	0	0	0	0	0	0
WNTM925	WNTP379	2183	A	-89.00	-94.91	14.84	16	0	0	0	0	0	0	0
WNEU223	WNEU224	2187	A	-99.52	-111.52	14.90	25	0	0	0	0	0	0	0
KIB20	KIW36	2133	A	-105.95	-112.23	15.20	16	0	0	0	0	0	0	0
WNTA222	WNTA223	2136	A	-119.53	-132.20	15.60	25	0	0	0	0	0	0	0
WHI926	WHI922	2135	A	-93.59	-107.09	20.42	25	0	0	0	0	0	0	0
WNTQ317	WNTQ316	2138	A	-92.43	-110.73	21.21	25	0	0	0	0	0	0	0

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WED637	KDU80	2181	A	-74.33	-92.16	26.32	5	0	0	0	0	0	0	0
WNTF903	WNTF906	2135	A	-106.02	-125.77	26.67	25	0	0	0	0	0	0	0
WHC502	WNEM698	2182	A	-56.87	-75.02	27.06	9	0	0	0	0	0	0	0
KIB62	KIB61	2138	A	-98.45	-123.50	27.96	25	0	0	0	0	0	0	0
WHI927	WHI926	2182	A	-74.13	-93.83	28.61	9	0	0	0	0	0	0	0
KIB78	WIK97	2140	A	-111.89	-137.99	30.32	25	0	0	0	0	0	0	0
WEH380	WED839	2141	D	-96.05	-126.96	30.91		0	0	0	0	0	0	0
WNTM925	WNTF903	2188	A	-106.96	-138.27	34.21	25	0	0	0	0	0	0	0
WEH380	WED839	2141	D	-91.05	-126.96	35.91		0	0	0	0	0	0	0
KIU72	KID29	2131	A	-95.08	-124.07	37.48	5	0	0	0	0	0	0	0
WED839	KBE20	2138	D	-105.13	-142.70	37.57		0	0	0	0	0	0	0
WIA700	KIR67	2143	A	-117.19	-149.97	39.53	25	0	0	0	0	0	0	0
KNP86	WNEP900	2187	A	-91.00	-128.79	40.69	25	0	0	0	0	0	0	0
WNEV986	KBE20	2141	D	-110.98	-153.48	42.50		0	0	0	0	0	0	0
WNTH879	WNTH878	2198	A	-128.25	-164.89	43.39	25	0	0	0	0	0	0	0
WEF620	WEH397	2146	A	-135.04	-172.25	43.96	25	0	0	0	0	0	0	0
WNEP900	KNP86	2137	A	-91.00	-133.68	45.58	25	0	0	0	0	0	0	0
WNTM926	WNTM925	2140	A	-110.37	-153.07	46.93	25	0	0	0	0	0	0	0
WNEG913	WNEG914	2190	A	-91.98	-137.15	49.40	25	0	0	0	0	0	0	0
WHI926	WHI927	2132	A	-74.13	-114.74	49.52	9	0	0	0	0	0	0	0
WGY620	WNEM490	2143	A	-103.30	-146.29	49.74	25	0	0	0	0	0	0	0
WEH397	WEF620	2196	A	-135.04	-999.00	863.96	1	0	0	0	0	0	0	0
WNTH878	WNTH879	2148	A	-128.25	-999.00	870.75	1	0	0	0	0	0	0	0
KNP84	KIB78	2193	A	-120.00	-999.00	879.00	1	0	0	0	0	0	0	0
KIB78	KNP84	2143	A	-120.00	-999.00	879.00	1	0	0	0	0	0	0	0
WNEL584	WNEL585	2192	A	-119.17	-999.00	879.83	1	0	0	0	0	0	0	0
WNEL585	WNEL584	2142	A	-119.17	-999.00	879.83	1	0	0	0	0	0	0	0
KIB20	WNTA223	2144	A	-118.60	-999.00	880.40	1	0	0	0	0	0	0	0
WNTA223	KIB20	2194	A	-118.60	-999.00	880.40	1	0	0	0	0	0	0	0
KIR67	WIA700	2193	A	-117.19	-999.00	881.81	1	0	0	0	0	0	0	0
KBE20	WNEV986	2191	D	-116.88	-999.00	882.12		0	0	0	0	0	0	0
WNEW511	WCE295	2191	A	-114.45	-999.00	884.55	1	0	0	0	0	0	0	0
WCE295	WNEW51	2141	A	-114.45	-999.00	884.55	1	0	0	0	0	0	0	0
KNP84	KRX32	2196	A	-113.94	-999.00	885.06	1	0	0	0	0	0	0	0
KRX32	KNP84	2146	A	-113.94	-999.00	885.06	1	0	0	0	0	0	0	0
WIA581	WIA580	2191	A	-112.33	-999.00	886.67	1	0	0	0	0	0	0	0
WIA580	WIA581	2141	A	-112.33	-999.00	886.67	1	0	0	0	0	0	0	0
WNEU269	WNEL584	2148	A	-112.02	-999.00	886.98	1	0	0	0	0	0	0	0
WNEL584	WNEU269	2198	A	-112.02	-999.00	886.98	1	0	0	0	0	0	0	0
WGY624	WGY622	2190	A	-112.00	-999.00	887.00	1	0	0	0	0	0	0	0
WGY622	WGY624	2140	A	-112.00	-999.00	887.00	1	0	0	0	0	0	0	0
WIK97	KIB78	2190	A	-111.89	-999.00	887.11	1	0	0	0	0	0	0	0
KRX32	KMV86	2149	A	-110.93	-999.00	888.07	1	0	0	0	0	0	0	0
KMV86	KRX32	2199	A	-110.93	-999.00	888.07	1	0	0	0	0	0	0	0
KRQ51	KNP86	2143	A	-110.54	-999.00	888.46	1	0	0	0	0	0	0	0
KNP86	KRQ51	2193	A	-110.54	-999.00	888.46	1	0	0	0	0	0	0	0
WNET569	WNET568	2194	A	-110.53	-999.00	888.47	1	0	0	0	0	0	0	0
WNET568	WNET569	2144	A	-110.53	-999.00	888.47	1	0	0	0	0	0	0	0
WNTM925	WNTM926	2190	A	-110.37	-999.00	888.63	1	0	0	0	0	0	0	0
KJB62	KNS90	2198	A	-110.34	-999.00	888.66	1	0	0	0	0	0	0	0
KNS90	KJB62	2148	A	-110.34	-999.00	888.66	1	0	0	0	0	0	0	0
WNTF903	KFX69	2146	A	-110.17	-999.00	888.83	1	0	0	0	0	0	0	0
KFX69	WNTF903	2196	A	-110.17	-999.00	888.83	1	0	0	0	0	0	0	0
WEF619	WEF620	2191	A	-109.73	-999.00	889.27	1	0	0	0	0	0	0	0
WEF620	WEF619	2141	A	-109.73	-999.00	889.27	1	0	0	0	0	0	0	0
KIB20	KJB62	2141	A	-109.27	-999.00	889.73	1	0	0	0	0	0	0	0
KJB62	KIB20	2191	A	-109.27	-999.00	889.73	1	0	0	0	0	0	0	0
WNTL680	WNTQ371	2191	A	-109.08	-999.00	889.92	1	0	0	0	0	0	0	0
WNTQ371	WNTL680	2141	A	-109.08	-999.00	889.92	1	0	0	0	0	0	0	0
WGY623	WGY625	2147	A	-108.73	-999.00	890.27	1	0	0	0	0	0	0	0
WGY625	WGY623	2197	A	-108.73	-999.00	890.27	1	0	0	0	0	0	0	0

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-4	5-12	13-19	20-24	25
WNTF903	WNTM925	2138	A	-106.96	-999.00	892.04	1	0	0	0	0	0	0	0
WGY621	WGY622	2195	A	-105.84	-999.00	893.16	1	0	0	0	0	0	0	0
WGY622	WGY621	2145	A	-105.84	-999.00	893.16	1	0	0	0	0	0	0	0
WIA579	WIA580	2186	A	-105.66	-999.00	893.34	1	0	0	0	0	0	0	0
WNEO775	WBH456	2144	D	-104.69	-999.00	894.31		0	0	0	0	0	0	0
WBH456	WNEO775	2194	D	-104.69	-999.00	894.31		0	0	0	0	0	0	0
KPN66	WNTC439	2198	A	-104.66	-999.00	894.34	1	0	0	0	0	0	0	0
WNTC439	KPN66	2148	A	-104.66	-999.00	894.34	1	0	0	0	0	0	0	0
WNEN928	WED839	2148	D	-104.26	-999.00	894.74		0	0	0	0	0	0	0
WED839	WNEN928	2198	D	-104.26	-999.00	894.74		0	0	0	0	0	0	0
WNEM490	WGY620	2193	A	-103.30	-999.00	895.70	1	0	0	0	0	0	0	0
WNTP380	KFX69	2140	A	-103.25	-999.00	895.75	1	0	0	0	0	0	0	0
KFX69	WNTP380	2190	A	-103.25	-999.00	895.75	1	0	0	0	0	0	0	0
WNTA615	WNEV214	2135	A	-102.44	-999.00	896.56	1	0	0	0	0	0	0	0
WNEV214	WNTA615	2185	D	-102.44	-999.00	896.56		0	0	0	0	0	0	0
WNTM926	WNTQ368	2146	A	-102.40	-999.00	896.60	1	0	0	0	0	0	0	0
WNTQ368	WNTM926	2196	A	-102.40	-999.00	896.60	1	0	0	0	0	0	0	0
KBT79	KIB62	2194	A	-102.34	-999.00	896.66	1	0	0	0	0	0	0	0
WNER428	WNER432	2136	A	-102.02	-999.00	896.98	1	0	0	0	0	0	0	0
WNER432	WNER428	2186	A	-102.02	-999.00	896.98	1	0	0	0	0	0	0	0
WNET570	WNTA332	2143	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
WNTM580	WNTM581	2147	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
NONE1	WNET570	2193	A	-99.99	-999.00	899.01	1	0	0	0	0	0	0	0
WEG995	WEG997	2146	A	-99.47	-999.00	899.53	1	0	0	0	0	0	0	0
WEG997	WEG995	2196	A	-99.47	-999.00	899.53	1	0	0	0	0	0	0	0
WGY620	WGY621	2140	A	-99.05	-999.00	899.95	1	0	0	0	0	0	0	0
WGY621	WGY620	2190	A	-99.05	-999.00	899.95	1	0	0	0	0	0	0	0
WED839	WEH380	2191	D	-96.05	-999.00	902.95		0	0	0	0	0	0	0
WEG999	WEG995	2193	A	-95.88	-999.00	903.12	1	0	0	0	0	0	0	0
WEG995	WEG999	2143	A	-95.88	-999.00	903.12	1	0	0	0	0	0	0	0
WIU50	KPW60	2183	D	-94.30	-999.00	904.70		0	0	0	0	0	0	0
WEH202	WEG995	2183	A	-92.94	-999.00	906.06	1	0	0	0	0	0	0	0
WEG995	WEH202	2133	A	-92.94	-999.00	906.06	1	0	0	0	0	0	0	0
WHI927	WHI923	2193	A	-92.76	-999.00	906.24	1	0	0	0	0	0	0	0
WHI923	WHI927	2143	A	-92.76	-999.00	906.24	1	0	0	0	0	0	0	0
WNEU227	WNEU223	2145	A	-92.70	-999.00	906.30	1	0	0	0	0	0	0	0
WNEU223	WNEU227	2195	A	-92.70	-999.00	906.30	1	0	0	0	0	0	0	0
WNTQ316	WNTQ317	2188	A	-92.43	-999.00	906.57	1	0	0	0	0	0	0	0
WNEG914	WNEG913	2140	A	-91.98	-999.00	907.02	1	0	0	0	0	0	0	0
WNER298	WNER299	2194	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WNER299	WNER298	2144	D	-91.51	-999.00	907.49		0	0	0	0	0	0	0
WED839	WEH380	2190	D	-91.05	-999.00	907.95		0	0	0	0	0	0	0
WHI922	WHI923	2188	A	-85.95	-999.00	913.05	1	0	0	0	0	0	0	0
WHI923	WHI922	2138	A	-85.95	-999.00	913.05	1	0	0	0	0	0	0	0
WBM522	KMV86	2140	A	-85.90	-999.00	913.10	1	0	0	0	0	0	0	0
KMV86	WBM522	2190	A	-85.90	-999.00	913.10	1	0	0	0	0	0	0	0
WNTQ313	WNTQ316	2141	A	-83.01	-999.00	915.99	1	0	0	0	0	0	0	0
WNTQ316	WNTQ313	2191	A	-83.01	-999.00	915.99	1	0	0	0	0	0	0	0
KIB62	KBT79	2144	A	-79.23	-999.00	919.77	1	0	0	0	0	0	0	0
WNTQ313	WNTQ314	2144	A	-78.91	-999.00	920.09	1	0	0	0	0	0	0	0
WNTQ314	WNTQ313	2194	A	-78.91	-999.00	920.09	1	0	0	0	0	0	0	0
WNTQ315	WNTQ313	2188	A	-73.95	-999.00	925.05	1	0	0	0	0	0	0	0
WNTQ313	WNTQ315	2138	A	-73.95	-999.00	925.05	1	0	0	0	0	0	0	0
KRN46	WNEQ701	2141	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
WNEQ701	KRN46	2191	D	-72.42	-999.00	926.58		0	0	0	0	0	0	0
WED278	WED277	2193	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WED277	WED278	2143	D	-68.59	-999.00	930.41		0	0	0	0	0	0	0
WGY626	WGY620	2196	A	-46.05	-999.00	952.95	1	0	0	0	0	0	0	0
WGY620	WGY626	2146	A	-46.05	-999.00	952.95	1	0	0	0	0	0	0	0
								7776	599	92	220	198	66	23

Microwave Effect - Sorted by Power Difference - 1600 Watt Design
Block A

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-14	15-37	38-59	60-74	75
BULLRUNM	INDEPEN	1940	A	-105.00	-46.54	-44.47	50	1057	21	0	0	21	0	0
KID29	KID34	1945	A	-97.58	-39.71	-42.44	51	1098	20	0	0	12	4	4
WIU53	WIU52	1955	A	-88.06	-29.37	-42.07	51	533	8	0	1	1	2	4
WED831	WED832	1925	A	-92.49	-44.75	-37.54	1	690	24	10	6	3	4	1
WNEP340	WNEO238	1935	D	-69.64	-33.02	-36.62		498	8	1	0	1	1	5
WQH57	KRN46	1945	A	-100.00	-49.38	-35.19	51	956	19	0	2	11	5	1
WAY533	WAY534	1945	A	-80.05	-29.60	-35.02	51	501	11	0	4	5	0	2
WIA741	WIA742	1935	A	-76.41	-27.56	-31.09	1	4087	64	0	0	11	53	0
KIB78	KIR67	1975	A	-105.00	-61.93	-27.95	75	301	8	1	3	3	0	1
WED828	WED832	1935	A	-88.07	-43.14	-27.17	1	467	7	0	0	1	6	0
WNER298	WIA649	1935	A	-82.17	-38.01	-26.41	1	555	8	0	0	0	8	0
WNTI982	WNTI983	1940	A	-105.00	-66.96	-24.04	50	258	6	0	1	5	0	0
KID34	KIC94	1905	A	-100.10	-65.27	-20.09	1	308	7	1	2	1	1	2
WAY532	WAY533	1905	A	-88.03	-54.98	-18.31	1	227	4	1	0	0	1	2
WNTL678	WNTM952	1960	A	-98.37	-65.25	-18.24	75	507	8	0	1	1	4	2
WED832	WED831	1865	A	-93.49	-61.87	-16.17	51	385	11	0	7	4	0	0
KID34	KID29	1865	A	-97.58	-66.64	-15.32	51	185	4	0	1	2	0	1
WNEN376	WNEN377	1960	D	-86.64	-73.18	-13.46		0	0	0	0	0	0	0
KIR67	KIB78	1885	A	-105.00	-75.36	-13.03	1	150	2	0	0	0	0	2
INDEPEND	BULLRUN	1860	A	-105.00	-79.87	-11.13	50	40	1	0	0	1	0	0
WNEP339	WNEO238	1955	D	-72.20	-61.75	-10.45		0	0	0	0	0	0	0
WIU53	WHH693	1945	A	-74.74	-49.14	-10.17	51	81	2	0	0	2	0	0
WIU54	WAM281	1945	A	-80.90	-55.43	-10.05	51	111	3	0	1	2	0	0
WNEO238	WNEP340	1855	D	-69.64	-60.08	-9.56		0	0	0	0	0	0	0
WNTI984	WNTI983	1950	A	-95.48	-82.42	-9.16	75	4	1	1	0	0	0	0
KGC97	KID29	1905	A	-98.55	-76.54	-7.27	1	57	1	0	0	1	0	0
WNER321	WIA712	1945	A	-83.10	-61.17	-6.50	51	64	2	0	2	0	0	0
WNTI983	WNTI982	1860	A	-105.00	-85.22	-5.79	50	0	0	0	0	0	0	0
WBH456	WAY532	1955	A	-83.13	-60.85	-5.65	51	28	1	0	1	0	0	0
WIA741	WIA740	1985	A	-70.82	-49.04	-5.63	75	34	1	0	1	0	0	0
WAY533	WAY532	1985	A	-88.03	-66.35	-5.53	75	54	1	0	0	1	0	0
WIU50	WIU51	1955	A	-87.52	-69.20	-1.70	51	0	0	0	0	0	0	0
WIU53	WIU51	1965	A	-82.70	-66.46	-1.63	75	9	1	1	0	0	0	0
WQH57	WPZ68	1965	A	-85.73	-70.10	-1.02	75	0	0	0	0	0	0	0
WIA742	WIA741	1855	A	-76.41	-58.11	-0.45	1	0	0	0	0	0	0	0
KRN46	WQH57	1885	A	-100.00	-86.83	1.60	75	0	0	0	0	0	0	0
WNTI985	WNTI984	1860	A	-101.10	-88.83	1.78	50	0	0	0	0	0	0	0
WAM281	WIU54	1865	A	-80.90	-68.56	3.10	51	0	0	0	0	0	0	0
WNEY471	WNEY473	1945	A	-69.18	-57.02	3.27	51	0	0	0	0	0	0	0
WNTL678	COOPER	1960	A	-91.39	-85.55	3.53	75	0	0	0	0	0	0	0
WIU52	WIU53	1875	A	-88.06	-74.71	4.34	51	0	0	0	0	0	0	0
WNEO238	WNEP339	1875	D	-72.20	-76.84	4.64		0	0	0	0	0	0	0
KIC94	KID34	1985	A	-100.10	-89.48	5.54	75	0	0	0	0	0	0	0
WED832	WED828	1855	A	-89.07	-76.75	5.66	1	0	0	0	0	0	0	0
WIA740	WIA741	1905	A	-70.82	-61.96	5.87	1	0	0	0	0	0	0	0
WIU54	WIU50	1905	A	-82.21	-74.56	7.08	1	0	0	0	0	0	0	0
WNTJ500	WNTJ499	1860	D	-81.36	-89.97	8.61		0	0	0	0	0	0	0
WED828	WED833	1975	A	-90.67	-85.21	9.67	75	0	0	0	0	0	0	0
WPZ68	WQH57	1905	A	-85.73	-80.94	9.95	1	0	0	0	0	0	0	0
KGC99	KGC97	1855	A	-87.56	-81.04	11.23	1	0	0	0	0	0	0	0
WAY534	WAY533	1855	A	-80.05	-73.63	11.46	1	0	0	0	0	0	0	0
WAY532	WBH456	1875	A	-79.13	-72.96	12.36	51	0	0	0	0	0	0	0
WIA649	WNER298	1855	A	-82.17	-76.91	13.31	1	0	0	0	0	0	0	0
WNEY473	WNEY471	1865	A	-69.18	-67.90	14.17	51	0	0	0	0	0	0	0
WIU51	WIU53	1885	A	-82.70	-80.56	14.50	1	0	0	0	0	0	0	0
WED833	WED828	1895	A	-90.67	-88.88	15.10	75	0	0	0	0	0	0	0
WIW89	WEF361	1935	A	-89.11	-86.99	15.64	1	0	0	0	0	0	0	0
WIA712	WNER321	1865	A	-83.10	-83.44	15.78	51	0	0	0	0	0	0	0
WNEY472	WNEY469	1975	A	-75.29	-76.85	16.69	75	0	0	0	0	0	0	0
WNER428	WNER429	1905	A	-76.65	-80.78	18.86	1	0	0	0	0	0	0	0

Microwave Effect - Sorted by Power Difference - 1600 Watt Design
Block A

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-14	15-37	38-59	60-74	75
KGC97	KGC99	1935	A	-87.56	-88.91	19.11	1	0	0	0	0	0	0	0
WHH693	WIU53	1865	A	-74.74	-77.99	19.82	51	0	0	0	0	0	0	0
WNTM952	WNTL678	1880	A	-95.37	-97.82	19.94	75	0	0	0	0	0	0	0
WIU50	WIU54	1985	A	-82.21	-86.29	20.22	75	0	0	0	0	0	0	0
WNEY471	WNEY469	1955	A	-71.12	-75.79	21.30	51	0	0	0	0	0	0	0
WNEY472	WNEY470	1965	A	-73.14	-80.07	21.54	75	0	0	0	0	0	0	0
WIA712	WIA715	1855	A	-84.59	-89.57	22.74	1	0	0	0	0	0	0	0
WNER321	WIU51	1975	A	-78.02	-87.02	24.13	75	0	0	0	0	0	0	0
WNEY470	WNEY472	1885	A	-73.14	-82.14	25.61	1	0	0	0	0	0	0	0
WIU51	WIU50	1875	A	-87.52	-94.80	25.65	51	0	0	0	0	0	0	0
WNTI984	WNTI985	1980	A	-101.10	-108.39	26.04	1	0	0	0	0	0	0	0
WNTJ499	WNTJ500	1940	D	-81.36	-108.80	27.44		0	0	0	0	0	0	0
WIU51	WNER321	1895	A	-78.02	-90.27	27.68	1	0	0	0	0	0	0	0
WNEN377	WNEN376	1880	D	-86.64	-114.43	27.79		0	0	0	0	0	0	0
WNEY469	WNEY472	1895	A	-75.29	-88.92	29.06	1	0	0	0	0	0	0	0
KGM71	WIA718	1865	A	-77.20	-90.86	29.09	51	0	0	0	0	0	0	0
KID29	KGC97	1985	A	-98.55	-111.65	29.40	75	0	0	0	0	0	0	0
WNEY469	WNEY471	1875	A	-72.12	-82.89	29.52	1	0	0	0	0	0	0	0
WEF361	WIW89	1855	A	-89.11	-100.93	29.58	1	0	0	0	0	0	0	0
KGC80	KGG24	1865	A	-76.25	-91.05	30.23	51	0	0	0	0	0	0	0
WNER429	WNER428	1985	A	-80.65	-96.33	31.82	75	0	0	0	0	0	0	0
KXU39	WIA713	1945	A	-79.96	-97.94	33.41	51	0	0	0	0	0	0	0
WIA718	WIA714	1965	A	-75.56	-95.45	34.50	75	0	0	0	0	0	0	0
WIA715	WIA712	1935	A	-84.59	-106.51	39.68	1	0	0	0	0	0	0	0
WNEY468	WNEY473	1965	A	-71.45	-96.70	39.86	75	0	0	0	0	0	0	0
WIA718	KGM71	1945	A	-77.20	-102.43	40.65	51	0	0	0	0	0	0	0
WIA713	KXU39	1865	A	-79.96	-106.50	41.96	51	0	0	0	0	0	0	0
WIA714	WIA718	1885	A	-75.56	-103.49	42.54	75	0	0	0	0	0	0	0
KGG24	KGC80	1945	A	-76.25	-103.85	43.03	51	0	0	0	0	0	0	0
WNEY468	WNEY470	1955	A	-64.15	-92.24	44.72	51	0	0	0	0	0	0	0
WNEY473	WNEY468	1885	A	-71.45	-100.34	45.50	1	0	0	0	0	0	0	0
KGC98	KGC99	1905	A	-97.08	-128.21	47.27	75	0	0	0	0	0	0	0
WNTB536	WNTB535	1870	D	-103.50	-999.00	895.50		0	0	0	0	0	0	0
WIK97	KIB97	1895	A	-100.00	-999.00	899.00	1	0	0	0	0	0	0	0
KIB97	WIK97	1975	A	-100.00	-999.00	899.00	1	0	0	0	0	0	0	0
WNTB535	WNTB536	1950	D	-99.58	-999.00	899.42		0	0	0	0	0	0	0
KGC99	KGC98	1965	A	-97.08	-999.00	901.92	1	0	0	0	0	0	0	0
WNTI983	WNTI984	1870	A	-95.48	-999.00	903.52	1	0	0	0	0	0	0	0
KXU39	KGM71	1975	A	-89.81	-999.00	909.19	1	0	0	0	0	0	0	0
KGM71	KXU39	1895	A	-89.81	-999.00	909.19	1	0	0	0	0	0	0	0
WNEV214	WGY346	1970	D	-86.33	-999.00	912.67		0	0	0	0	0	0	0
WGY346	WNEV214	1890	D	-86.33	-999.00	912.67		0	0	0	0	0	0	0
WNEV214	WNEV215	1960	D	-83.68	-999.00	915.32		0	0	0	0	0	0	0
WNEV215	WNEV214	1880	D	-83.68	-999.00	915.32		0	0	0	0	0	0	0
WNES289	WNES290	1880	D	-79.04	-999.00	919.96		0	0	0	0	0	0	0
KXU39	KXU40	1965	A	-77.22	-999.00	921.78	1	0	0	0	0	0	0	0
KXU40	KXU39	1885	A	-77.22	-999.00	921.78	1	0	0	0	0	0	0	0
WNES290	WNES289	1960	D	-77.04	-999.00	921.96		0	0	0	0	0	0	0
KGM71	WIA716	1875	A	-77.02	-999.00	921.98	1	0	0	0	0	0	0	0
WIA716	KGM71	1955	A	-77.02	-999.00	921.98	1	0	0	0	0	0	0	0
KXU37	KGC80	1955	A	-76.07	-999.00	922.93	1	0	0	0	0	0	0	0
KGC80	KXU37	1875	A	-76.07	-999.00	922.93	1	0	0	0	0	0	0	0
WLR54	WIA712	1955	A	-74.22	-999.00	924.78	1	0	0	0	0	0	0	0
WIA712	WLR54	1875	A	-74.22	-999.00	924.78	1	0	0	0	0	0	0	0
KGG24	WIA713	1975	A	-74.06	-999.00	924.94	1	0	0	0	0	0	0	0
WIA713	KGG24	1875	A	-74.06	-999.00	924.94	1	0	0	0	0	0	0	0
WNTI982	WNEW51	1980	A	-73.27	-999.00	925.73	1	0	0	0	0	0	0	0
WNEW511	WNTI982	1900	A	-73.27	-999.00	925.73	1	0	0	0	0	0	0	0
WNEP341	WNEO238	1975	D	-67.31	-999.00	931.69		0	0	0	0	0	0	0
WNEO238	WNEP341	1895	D	-67.31	-999.00	931.69		0	0	0	0	0	0	0

Microwave Effect - Sorted by Power Difference - 1600 Watt Design
Block A

Tx Call	Rx Call	Freq	Mod	Max IPL	Tot IPL	Diff	Diff #	Chan	Sites	1-14	15-37	38-59	60-74	75
WIA717	WIA715	1885	A	-64.96	-999.00	934.04	1	0	0	0	0	0	0	0
WIA715	WIA717	1965	A	-64.96	-999.00	934.04	1	0	0	0	0	0	0	0
KGI31	KXU37	1885	A	-63.80	-999.00	935.20	1	0	0	0	0	0	0	0
KXU37	KGI31	1965	A	-63.80	-999.00	935.20	1	0	0	0	0	0	0	0
WNEY470	WNEY468	1875	A	-63.15	-999.00	935.85	1	0	0	0	0	0	0	0
KGC80	WIA715	1905	A	-59.99	-999.00	939.01	1	0	0	0	0	0	0	0
WIA715	KGC80	1985	A	-59.99	-999.00	939.01	1	0	0	0	0	0	0	0
WIA718	WAM281	1975	A	-58.20	-999.00	940.80	1	0	0	0	0	0	0	0
WAM281	WIA718	1895	A	-58.20	-999.00	940.80	1	0	0	0	0	0	0	0
WNEY610	WNEZ453	1875	A	-37.74	-999.00	961.26	1	0	0	0	0	0	0	0
WNEZ453	WNEY610	1955	A	-34.74	-999.00	964.26	1	0	0	0	0	0	0	0
WNES289	WNES288	1860	D	-27.99	-999.00	971.01		0	0	0	0	0	0	0
WNES288	WNES289	1940	D	-25.99	-999.00	973.01		0	0	0	0	0	0	0
								13245	254	16	33	89	89	27