

Exhibit 13

Freespace Interference Study based on Vertical Radiation Pattern

Flex-space program based on applying array function to EPA vertical field pattern data

Depression Angle from Antenna	Antenna Relative Field	Multibay Relative Field	ERP Watts	ERP dBk	Distance to Rooftop from Antenna (m)	Free Space Signal (dBu)	Signal Strength at Ground (dBu)	Circular Distance From Tower (m)	Distance to Contour using Free Space (m)	Height of Contour above Rooftop (m)
90	0.135	-0.091	2.064	-26.85	19.40	114.31	114.31	0.00	7.00	12.40
85	0.200	-0.133	4.442	-23.52	19.47	117.61	117.61	1.70	10.28	9.16
80	0.280	-0.181	8.196	-20.86	19.70	120.17	120.17	3.42	13.96	5.65
75	0.355	-0.218	11.831	-19.27	20.08	121.59	121.59	5.20	16.77	3.20
70	0.425	-0.240	14.356	-18.43	20.65	122.19	122.19	7.06	18.47	2.04
65	0.495	-0.247	15.226	-18.17	21.41	122.14	122.14	9.05	19.02	2.16
60	0.565	-0.235	13.803	-18.60	22.40	121.31	121.31	11.20	18.11	3.71
55	0.625	-0.197	9.703	-20.13	23.68	119.30	119.30	13.58	15.19	6.96
50	0.690	-0.136	4.608	-23.36	25.32	115.48	115.48	16.28	10.47	11.38
45	0.745	-0.046	0.532	-32.74	27.44	105.41	105.41	19.40	3.56	16.89
40	0.795	0.069	1.181	-29.28	30.18	108.05	108.05	23.12	5.30	15.99
35	0.840	0.205	10.492	-19.79	33.82	116.54	116.54	27.71	15.79	10.34
30	0.880	0.356	31.652	-15.00	38.80	120.15	120.15	33.60	27.43	5.69
25	0.920	0.516	66.467	-11.77	45.90	121.91	121.91	41.60	39.75	2.60
20	0.945	0.665	110.657	-9.56	56.72	122.28	122.28	53.30	51.28	1.86
15	0.975	0.806	162.411	-7.89	74.96	121.53	121.53	72.40	62.13	3.32
10	0.980	0.902	203.523	-6.91	111.72	119.04	119.04	110.02	69.55	7.32
5	0.989	0.969	234.759	-6.29	222.59	113.68	113.68	221.74	74.70	12.89
0	1.000	1.000	250.000	-6.02	19.40					

Maximum ERP	250 watts	Max dBu at Rooftop Level	122.28	Lowest Height of Contour (m)	1.86
Radiation Center Ht	19.4 m	above rooftop		Lowest Height of Contour (ft)	6.10
Radiation Center Ht	64 ft.	above rooftop			
Maximum ERP	-6.02 dBk	Antenna Type	ERI 100		
Protected dBu	83.16 dBu	# of Bays	2		
Interfering dBu	123.16 dBu	Bay spacing	0.735 wavelengths		
Free Space Distance	77.09 m	Freq	101.7 MHz		
	253 ft.	Length	7.11 ft		
			2.17 m		
		Top	20.48 m		
			67.20 ft		

