

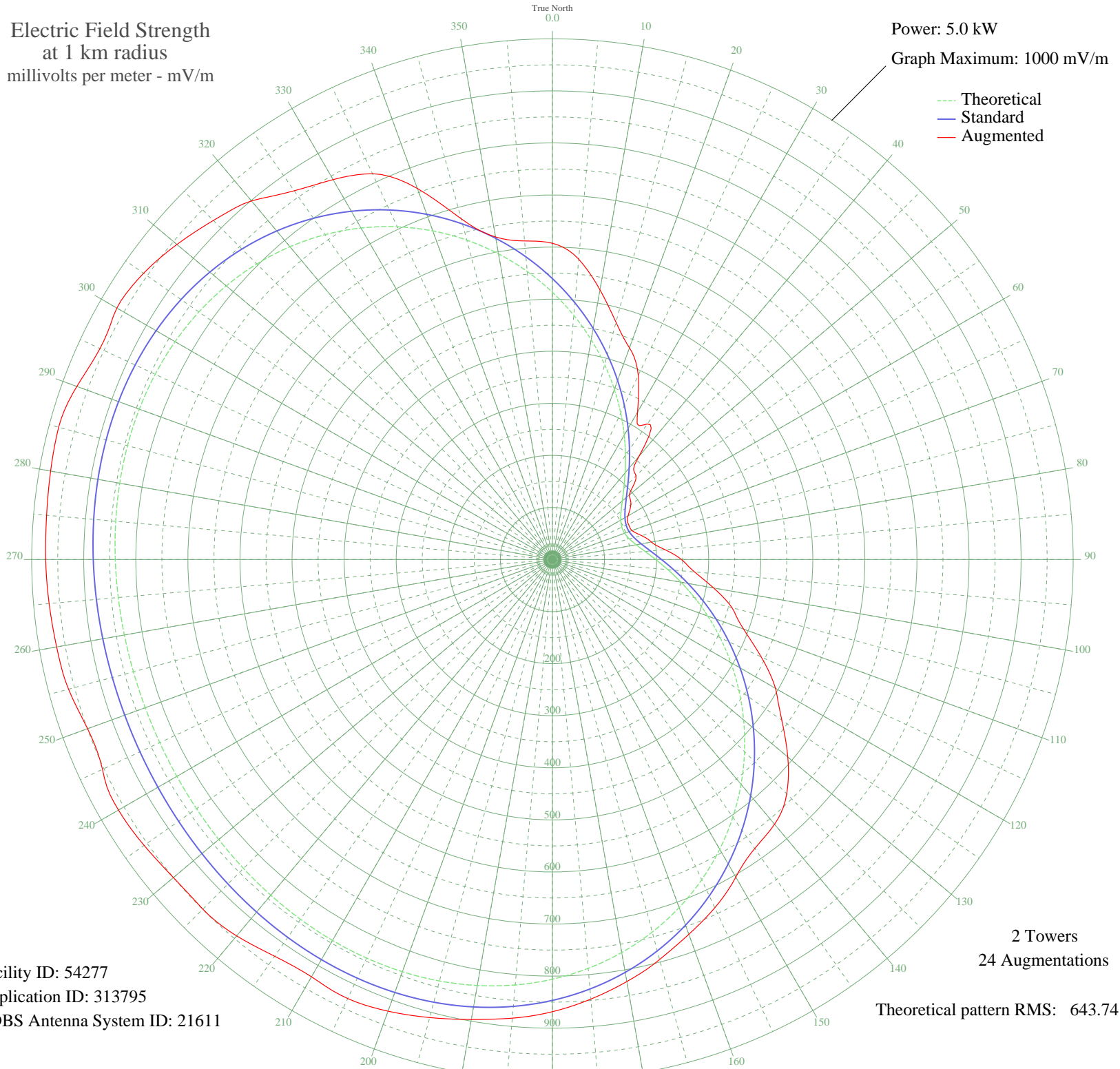
# WGEM QUINCY, IL BL-- 1440 kHz

Daytime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 5.0 kW

Graph Maximum: 1000 mV/m



Facility ID: 54277  
Application ID: 313795  
CDBS Antenna System ID: 21611

2 Towers  
24 Augmentations  
Theoretical pattern RMS: 643.74

Azimuth	Etheo	Estd	Eaug
0	513.28	539.46	607.33
5	470.83	494.93	579.03
10	428.63	450.68	525.92
15	387.38	407.43	471.72
20	347.76	365.90	432.61
25	310.40	326.77	390.16
30	275.88	290.62	326.99
35	244.69	258.00	317.75
40	217.28	229.35	258.32
45	194.00	205.05	226.97
50	175.15	185.40	192.26
55	160.94	170.62	183.83
60	151.56	160.86	167.59
65	147.09	156.22	161.02
70	147.58	156.73	162.66
75	153.04	162.40	177.31
80	163.40	173.17	193.12
85	178.55	188.94	216.99
90	198.31	209.55	247.95
95	222.44	234.74	274.08
100	250.64	264.22	314.35
105	282.53	297.59	356.91
110	317.67	334.37	390.65
115	355.52	374.04	442.31
120	395.52	415.96	494.65
125	437.02	459.47	537.78
130	479.33	503.84	590.02
135	521.74	548.33	636.27
140	563.53	592.17	663.63
145	604.00	634.64	677.45
150	642.51	675.04	704.29
155	678.44	712.75	737.87
160	711.31	747.24	765.93
165	740.71	778.10	795.22
170	766.37	805.03	823.00
175	788.14	827.88	847.38

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	806.02	846.65	868.39
185	820.11	861.43	884.14
190	830.63	872.48	897.00
195	837.91	880.12	910.63
200	842.36	884.79	923.00
205	844.44	886.97	930.20
210	844.64	887.18	925.32
215	843.46	885.95	930.05
220	841.41	883.79	943.45
225	838.94	881.20	949.51
230	836.46	878.60	950.22
235	834.31	876.34	957.16
240	832.76	874.71	962.27
245	831.99	873.90	953.36
250	832.07	873.99	949.95
255	833.01	874.98	962.03
260	834.70	876.75	966.78
265	836.94	879.10	970.19
270	839.45	881.73	973.13
275	841.87	884.28	975.08
280	843.78	886.28	978.52
285	844.72	887.27	981.70
290	844.19	886.71	971.87
295	841.68	884.07	958.68
300	836.70	878.84	965.84
305	828.79	870.55	958.41
310	817.58	858.78	941.29
315	802.75	843.22	920.85
320	784.10	823.64	899.00
325	761.54	799.96	864.49
330	735.12	772.23	842.45
335	705.00	740.62	817.51
340	671.48	705.45	758.29
345	634.99	667.15	677.61
350	596.05	626.29	629.05
355	555.25	583.49	614.13