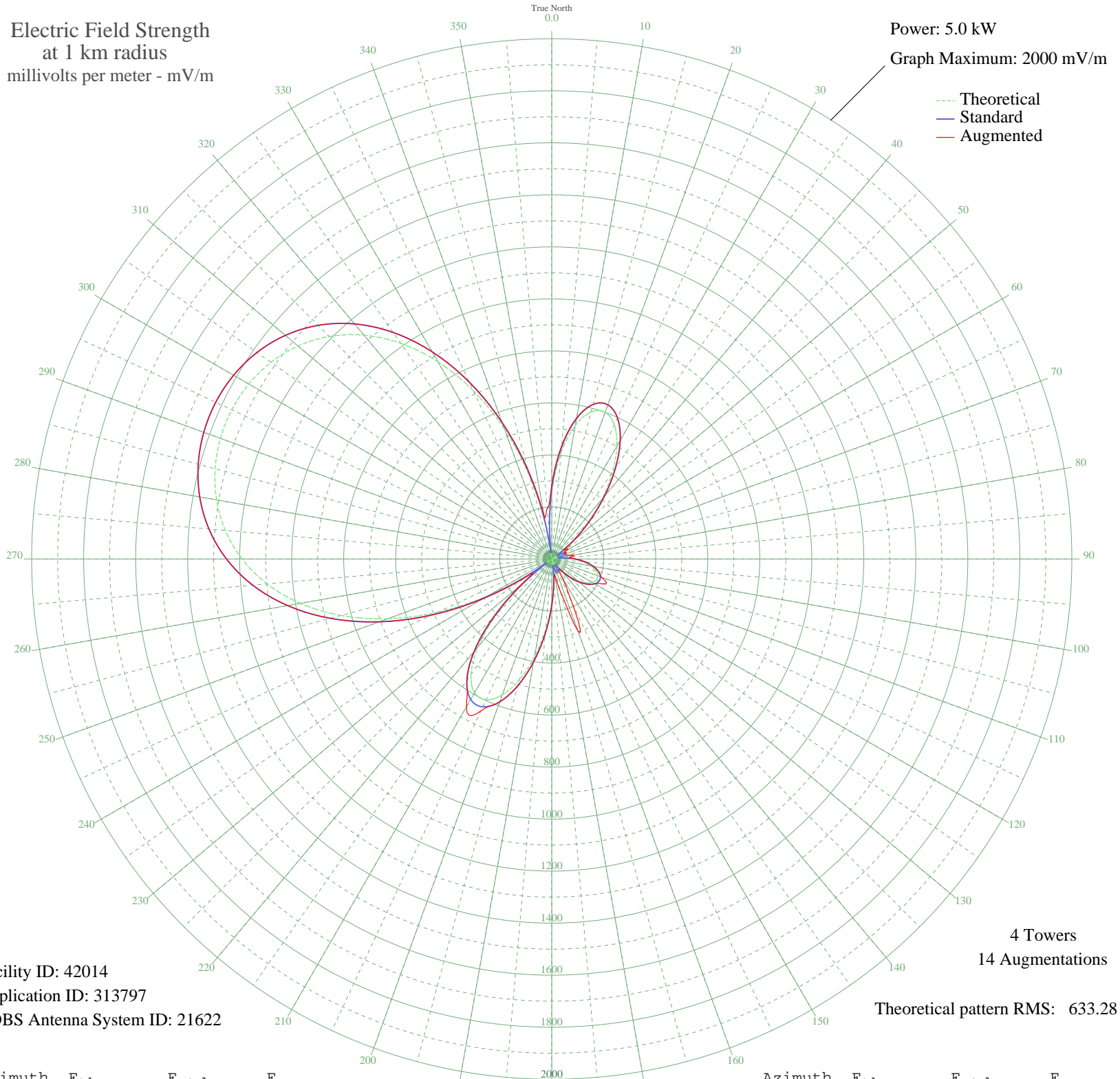


# KMAJ TOPEKA, KS BL-- 1440 kHz

Daytime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 42014  
Application ID: 313797  
CDBS Antenna System ID: 21622

4 Towers  
14 Augmentations  
Theoretical pattern RMS: 633.28

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	257.26	271.14	285.26
5	409.51	430.63	437.04
10	521.11	547.66	550.31
15	585.33	615.05	615.69
20	600.31	630.77	630.77
25	569.43	598.36	598.36
30	500.87	526.44	526.44
35	406.37	427.33	427.33
40	299.44	315.28	315.28
45	193.37	204.39	204.39
50	99.49	107.07	107.74
55	25.95	35.96	58.25
60	22.89	33.60	67.84
65	46.30	53.99	58.87
70	46.60	54.27	58.52
75	28.23	37.81	56.45
80	3.27	23.73	86.42
85	42.09	50.04	67.58
90	82.83	90.09	91.27
95	120.94	129.13	129.13
100	152.82	162.17	162.17
105	175.92	186.20	186.20
110	188.58	199.39	202.33
115	189.95	200.82	226.97
120	179.96	190.41	190.41
125	159.25	168.85	168.85
130	129.27	137.75	137.75
135	92.37	99.79	99.79
140	51.88	59.31	62.99
145	12.13	26.71	46.82
150	21.64	32.68	71.63
155	43.70	51.54	177.51
160	48.34	55.93	293.09
165	30.79	39.95	131.49
170	11.89	26.59	61.16
175	79.76	86.97	96.42

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	169.36	179.37	179.54
185	273.43	288.06	288.06
190	381.32	401.08	401.08
195	480.06	504.61	504.61
200	556.02	584.29	584.29
205	596.85	627.13	644.49
210	593.38	623.49	656.24
215	541.00	568.53	569.62
220	440.33	462.94	466.41
225	297.00	312.73	321.20
230	120.65	128.84	153.35
235	76.60	83.79	119.71
240	281.97	297.00	307.61
245	483.55	508.27	512.72
250	671.55	705.52	707.20
255	839.02	881.29	881.65
260	981.96	1031.33	1031.33
265	1099.05	1154.24	1154.24
270	1191.04	1250.81	1250.81
275	1260.06	1323.27	1323.27
280	1308.85	1374.49	1374.49
285	1340.09	1407.29	1407.29
290	1355.93	1423.92	1423.92
295	1357.60	1425.68	1425.68
300	1345.23	1412.69	1412.69
305	1317.85	1383.95	1383.95
310	1273.51	1337.39	1337.39
315	1209.60	1270.30	1270.30
320	1123.35	1179.75	1179.75
325	1012.42	1063.30	1063.30
330	875.65	919.74	919.81
335	713.81	749.87	750.88
340	530.22	557.22	560.76
345	331.10	348.45	357.77
350	125.62	133.98	169.67
355	74.74	81.91	195.08