

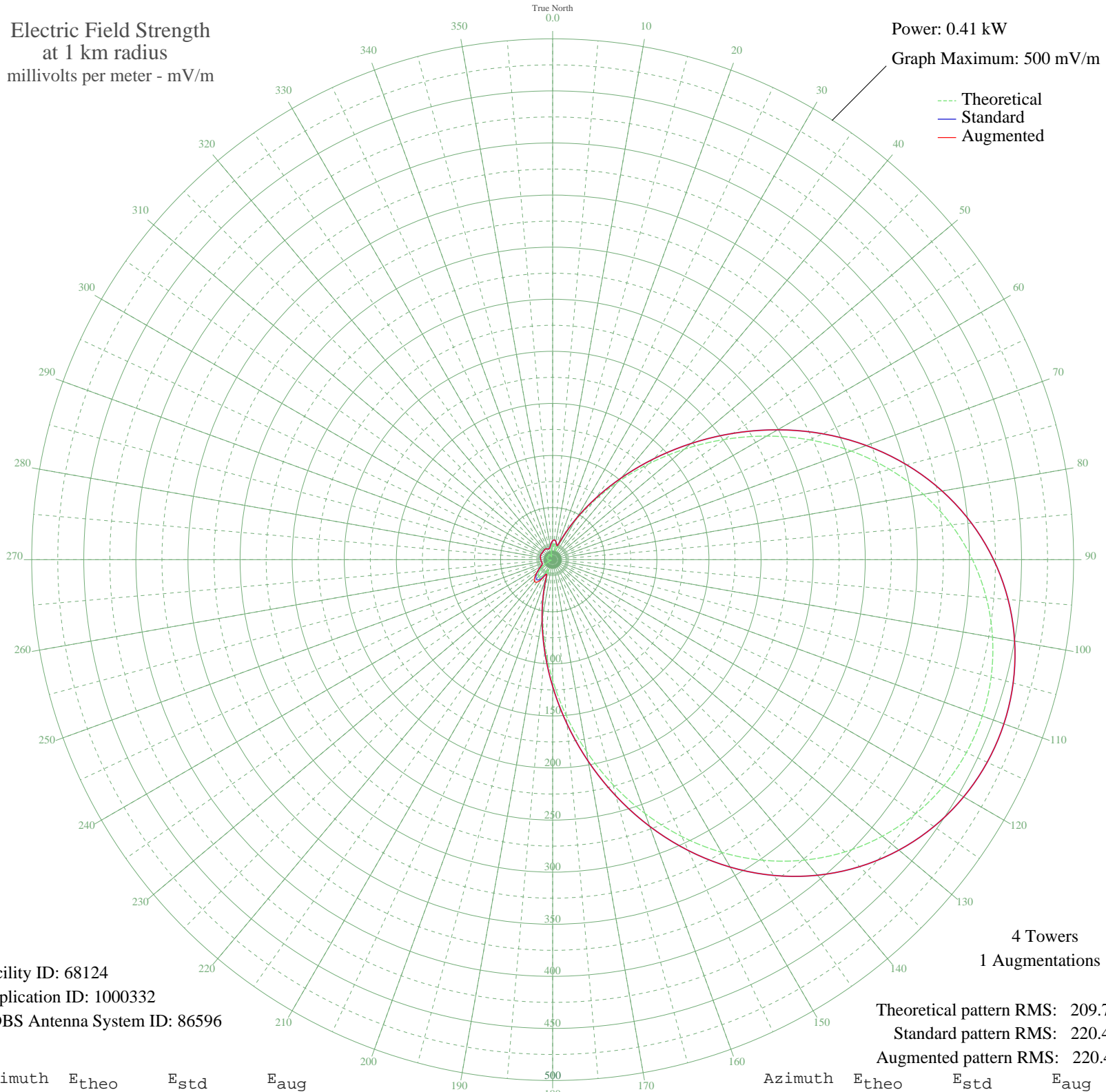
# KCHN BROOKSHIRE, TX BP-20040112AAY 1050 kHz

Daytime

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

Power: 0.41 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 68124  
Application ID: 1000332  
CDBS Antenna System ID: 86596

4 Towers  
1 Augmentations

Theoretical pattern RMS: 209.70  
Standard pattern RMS: 220.40  
Augmented pattern RMS: 220.40

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	14.04	18.10	18.10
5	15.04	18.97	18.97
10	13.57	17.70	17.70
15	9.92	14.79	14.79
20	10.63	15.32	15.32
25	23.03	26.36	26.36
30	42.66	46.01	46.01
35	67.62	71.78	71.78
40	97.00	102.39	102.39
45	129.80	136.69	136.69
50	164.91	173.47	173.47
55	201.12	211.43	211.43
60	237.23	249.32	249.32
65	272.15	285.96	285.96
70	304.94	320.36	320.36
75	334.85	351.75	351.75
80	361.35	379.57	379.57
85	384.10	403.45	403.45
90	402.93	423.21	423.21
95	417.78	438.79	438.79
100	428.67	450.23	450.23
105	435.66	457.57	457.57
110	438.82	460.88	460.88
115	438.15	460.18	460.18
120	433.66	455.47	455.47
125	425.31	446.70	446.70
130	413.02	433.80	433.80
135	396.75	416.71	416.71
140	376.47	395.44	395.44
145	352.29	370.05	370.05
150	324.41	340.79	340.79
155	293.22	308.06	308.06
160	259.33	272.50	272.50
165	223.54	234.95	234.95
170	186.85	196.48	196.48
175	150.42	158.29	158.29

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	115.46	121.68	121.68
185	83.18	87.97	87.97
190	54.73	58.42	58.42
195	31.19	34.39	34.39
200	14.37	18.38	18.38
205	10.79	15.45	15.72
210	16.43	20.19	21.80
215	20.29	23.75	26.36
220	21.07	24.49	27.16
225	19.33	22.85	24.58
230	15.92	19.74	20.15
235	11.71	16.17	16.17
240	7.47	13.10	13.10
245	3.78	11.23	11.23
250	1.41	10.60	10.60
255	1.97	10.70	10.70
260	3.03	10.97	10.97
265	3.69	11.19	11.19
270	4.18	11.38	11.38
275	4.73	11.62	11.62
280	5.33	11.90	11.90
285	5.82	12.15	12.15
290	6.05	12.27	12.27
295	5.98	12.23	12.23
300	5.69	12.08	12.08
305	5.43	11.95	11.95
310	5.45	11.96	11.96
315	5.78	12.13	12.13
320	6.16	12.33	12.33
325	6.19	12.35	12.35
330	5.54	12.01	12.01
335	4.17	11.38	11.38
340	2.87	10.92	10.92
345	4.27	11.42	11.42
350	7.68	13.24	13.24
355	11.28	15.83	15.83

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.

13 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission