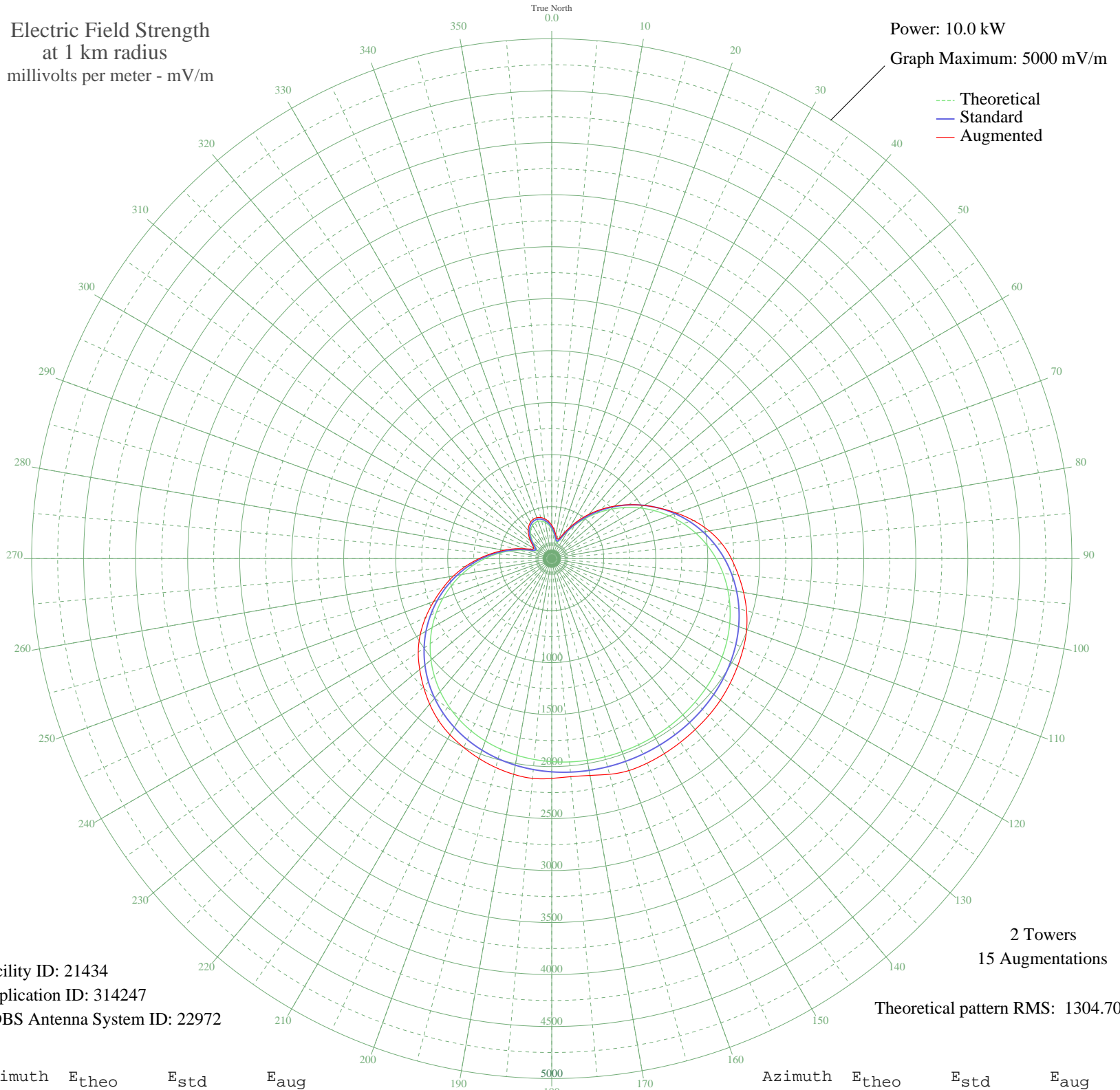


# WREJ RICHMOND, VA BL-- 1540 kHz

Daytime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 21434  
Application ID: 314247  
CDBS Antenna System ID: 22972

2 Towers  
15 Augmentations  
Theoretical pattern RMS: 1304.70

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	285.01	301.58	321.89
5	240.78	255.56	276.92
10	196.50	209.68	231.02
15	165.90	178.15	199.10
20	171.48	183.89	204.40
25	221.41	235.47	258.83
30	301.49	318.76	345.23
35	398.70	420.30	447.25
40	506.21	532.83	556.84
45	620.12	652.19	669.57
50	737.67	775.45	785.03
55	856.59	900.20	903.53
60	974.86	1024.29	1024.55
65	1090.62	1145.76	1147.33
70	1202.20	1262.86	1279.21
75	1308.10	1374.02	1412.57
80	1407.10	1477.93	1536.34
85	1498.20	1573.56	1642.35
90	1580.71	1660.17	1726.80
95	1654.21	1737.33	1800.63
100	1718.60	1804.91	1873.05
105	1774.00	1863.07	1939.14
110	1820.80	1912.21	1993.62
115	1859.59	1952.92	2032.99
120	1891.08	1985.98	2064.22
125	1916.09	2012.24	2092.69
130	1935.49	2032.61	2116.60
135	1950.13	2047.97	2133.79
140	1960.79	2059.17	2145.54
145	1968.17	2066.92	2156.24
150	1972.83	2071.81	2164.98
155	1975.16	2074.26	2170.18
160	1975.37	2074.47	2169.00
165	1973.48	2072.49	2147.23
170	1969.31	2068.11	2117.10
175	1962.51	2060.97	2104.94

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	1952.55	2050.52	2113.54
185	1938.77	2036.05	2121.22
190	1920.39	2016.76	2106.42
195	1896.57	1991.75	2079.75
200	1866.44	1960.12	2044.95
205	1829.18	1921.00	2003.32
210	1784.03	1873.60	1956.22
215	1730.38	1817.29	1898.50
220	1667.82	1751.61	1825.93
225	1596.14	1676.36	1743.27
230	1515.41	1591.62	1656.71
235	1425.98	1497.74	1566.66
240	1328.49	1395.42	1459.55
245	1223.88	1285.61	1337.54
250	1113.32	1169.59	1208.10
255	998.27	1048.85	1081.32
260	880.36	925.13	958.84
265	761.41	800.35	829.32
270	643.41	676.62	699.88
275	528.58	556.26	576.88
280	419.53	442.09	466.71
285	319.85	337.91	366.42
290	235.54	250.13	278.22
295	178.21	190.82	216.36
300	163.42	175.61	201.01
305	188.64	201.56	224.76
310	231.64	246.07	267.03
315	276.52	292.74	312.82
320	316.26	334.17	352.78
325	347.82	367.12	384.21
330	369.78	390.06	406.30
335	381.45	402.26	418.10
340	382.51	403.37	419.18
345	372.95	393.38	409.50
350	353.01	372.54	389.42
355	323.29	341.50	359.75