

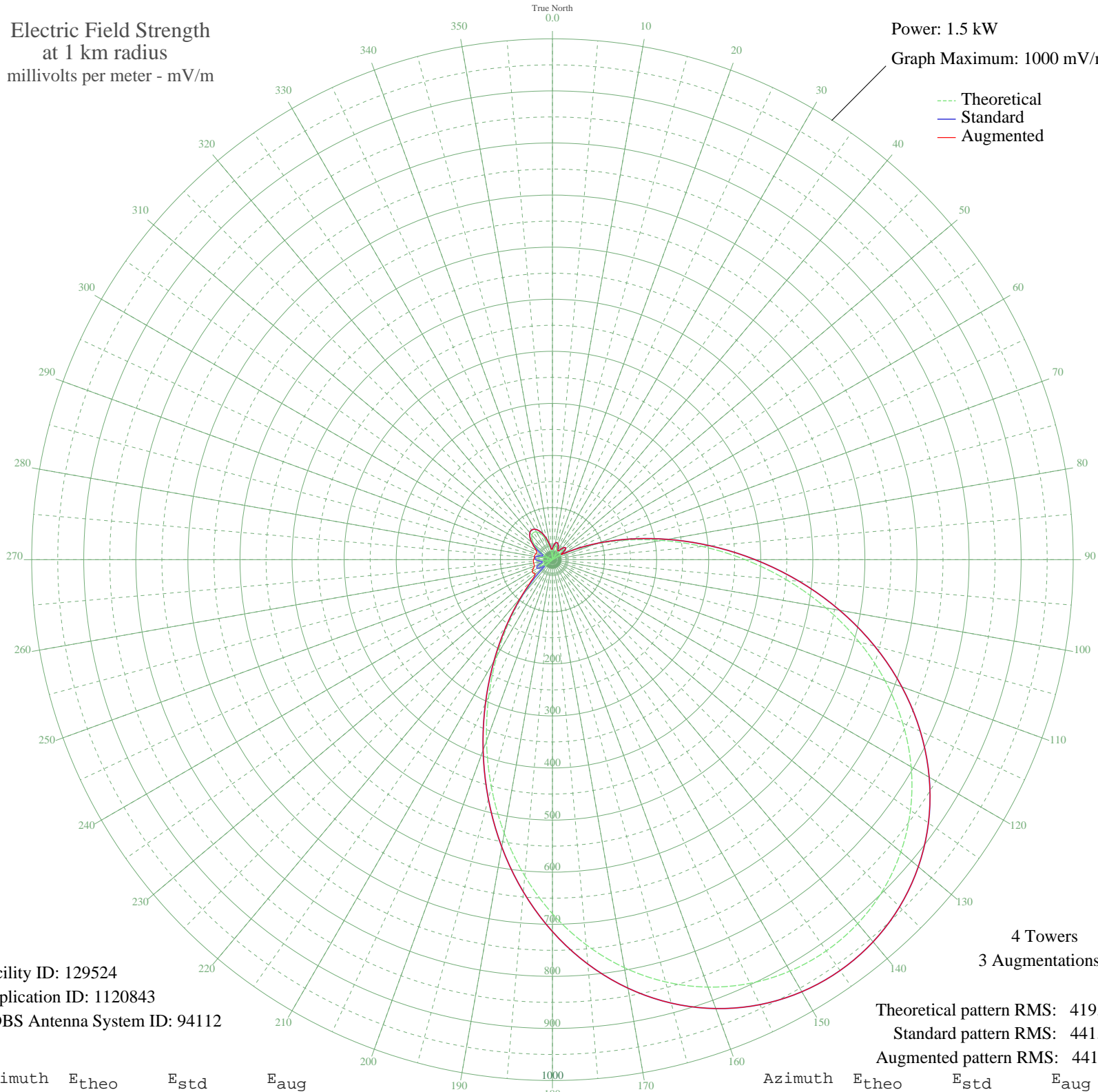
WTOX GLEN ALLEN, VA BL-20040623ACO 1480 kHz

Nighttime

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

Power: 1.5 kW  
Graph Maximum: 1000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 129524  
Application ID: 1120843  
CDBS Antenna System ID: 94112

4 Towers  
3 Augmentations

Theoretical pattern RMS: 419.77  
Standard pattern RMS: 441.19  
Augmented pattern RMS: 441.39

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	7.81	21.17	21.17
5	18.14	27.27	27.27
10	24.66	32.42	32.42
15	26.54	34.02	34.02
20	23.50	31.46	31.46
25	15.98	25.74	25.74
30	5.14	20.25	20.25
35	7.11	20.89	20.89
40	18.25	27.35	27.35
45	25.41	33.06	33.06
50	25.63	33.24	33.24
55	16.24	25.92	25.92
60	4.79	20.15	20.15
65	38.62	45.00	45.00
70	85.37	91.74	91.74
75	144.10	152.56	152.56
80	212.95	224.45	224.45
85	289.33	304.42	304.42
90	370.22	389.22	389.22
95	452.49	475.52	475.52
100	533.16	560.16	560.16
105	609.63	640.41	640.41
110	679.78	714.03	714.03
115	742.04	779.39	779.39
120	795.39	835.39	835.39
125	839.23	881.41	881.41
130	873.30	917.17	917.17
135	897.56	942.64	942.64
140	912.06	957.86	957.86
145	916.89	962.93	962.93
150	912.06	957.86	957.86
155	897.56	942.64	942.64
160	873.30	917.17	917.17
165	839.23	881.41	881.41
170	795.39	835.39	835.39
175	742.04	779.39	779.39

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	679.78	714.03	714.03
185	609.63	640.41	640.41
190	533.16	560.16	560.16
195	452.49	475.52	475.52
200	370.22	389.22	389.22
205	289.33	304.42	304.42
210	212.95	224.45	224.45
215	144.10	152.56	153.02
220	85.37	91.74	95.07
225	38.62	45.00	56.55
230	4.79	20.15	43.29
235	16.24	25.92	44.80
240	25.63	33.24	44.52
245	25.41	33.06	40.70
250	18.25	27.35	37.15
255	7.11	20.89	36.55
260	5.14	20.25	36.58
265	15.98	25.74	36.80
270	23.50	31.46	36.31
275	26.54	34.02	35.02
280	24.66	32.42	35.30
285	18.14	27.27	34.81
290	7.81	21.17	33.52
295	5.13	20.25	33.27
300	19.30	28.13	36.21
305	33.24	39.98	42.96
310	45.62	51.73	52.10
315	55.33	61.29	61.29
320	61.50	67.46	67.46
325	63.62	69.59	69.59
330	61.50	67.46	67.46
335	55.33	61.29	61.29
340	45.62	51.73	51.73
345	33.24	39.98	39.98
350	19.29	28.13	28.13
355	5.13	20.25	20.25

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.

28 Sep 2008

Prepared by Audio Division, Media Bureau  
Federal Communications Commission