KNBC Auxiliary Broadcast Application **EXHIBIT 46**
February 29, 2012

TABULATION OF AZIMUTH PATTERN: Dielectric TUA-C2-8/16M-1

Main beam axis of symmetry: 199° true
Electrical Beam Tilt: 1.50
Main Beam Calculated Maximum Azimuth Pattern Gain (peak): 3.00 (4.77 dBd)
Maximum Main Beam Effective Radiated Power (ERP): 34.77 kW
Maximum Peak of Beam Effective Radiated Power (ERP): 15.41 dBk

Peak of Beam

Angle	Field	ERP (dBk)	ERP (kW)
0	0.065	-8.33	0.1
10	0.049	-10.78	0.1
20	0.097	-4.85	0.3
30	0.050	-10.61	0.1
40	0.072	-7.44	0.2
50	0.112	-3.60	0.4
60	0.108	-3.92	0.4
70	0.084	-6.10	0.2
80	0.081	-6.42	0.2
90	0.146	-1.30	0.7
100	0.242	3.09	2.0
110	0.368	6.73	4.7
120	0.500	9.39	8.7
130	0.660	11.80	15.1
140	0.825	13.74	23.7
150	0.947	14.94	31.2
160	0.983	15.26	33.6
170	0.873	14.23	26.5
180	0.755	12.97	19.8
190	0.872	14.22	26.4
200	0.967	15.12	32.5
210	0.834	13.84	24.2
220	0.734	12.73	18.7
230	0.873	14.23	26.5
240	0.991	15.33	34.1
250	0.955	15.01	31.7
260	0.826	13.75	23.7
270	0.670	11.93	15.6
280	0.510	9.56	9.0
290	0.370	6.78	4.8
300	0.237	2.91	2.0
310	0.137	-1.85	0.7
320	0.076	-6.97	0.2
330	0.079	-6.64	0.2
340	0.110	-3.76	0.4
350	0.105	-4.16	0.4

MAXIMA - Peak of Beam

Angle	Field	ERP (dBk)	ERP (kW)
20	0.097	-4.9	0.33
52	0.114	-3.4	0.45
158	0.988	15.3	33.94
199	0.968	15.1	32.58
243	1.000	15.4	34.77
344	0.111	-3.7	0.43

MINIMA - Peak of Beam

Angle	Field	ERP (dBk)	ERP (kW)
6	0.028	-15.6	0.03
34	0.028	-15.6	0.03
78	0.071	-7.6	0.18
181	0.755	13.0	19.82
219	0.732	12.7	18.63
323	0.067	-8.1	0.16

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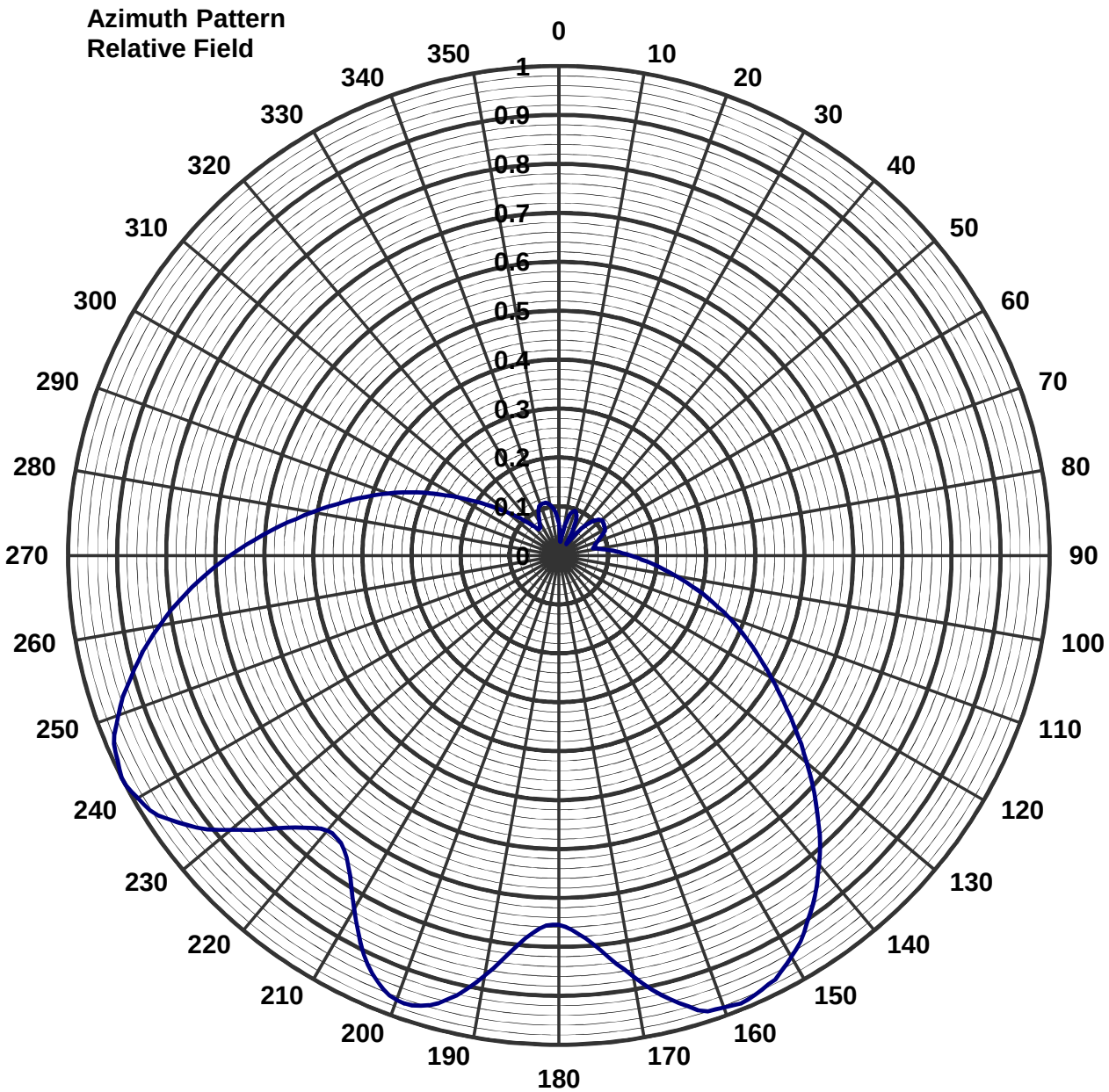

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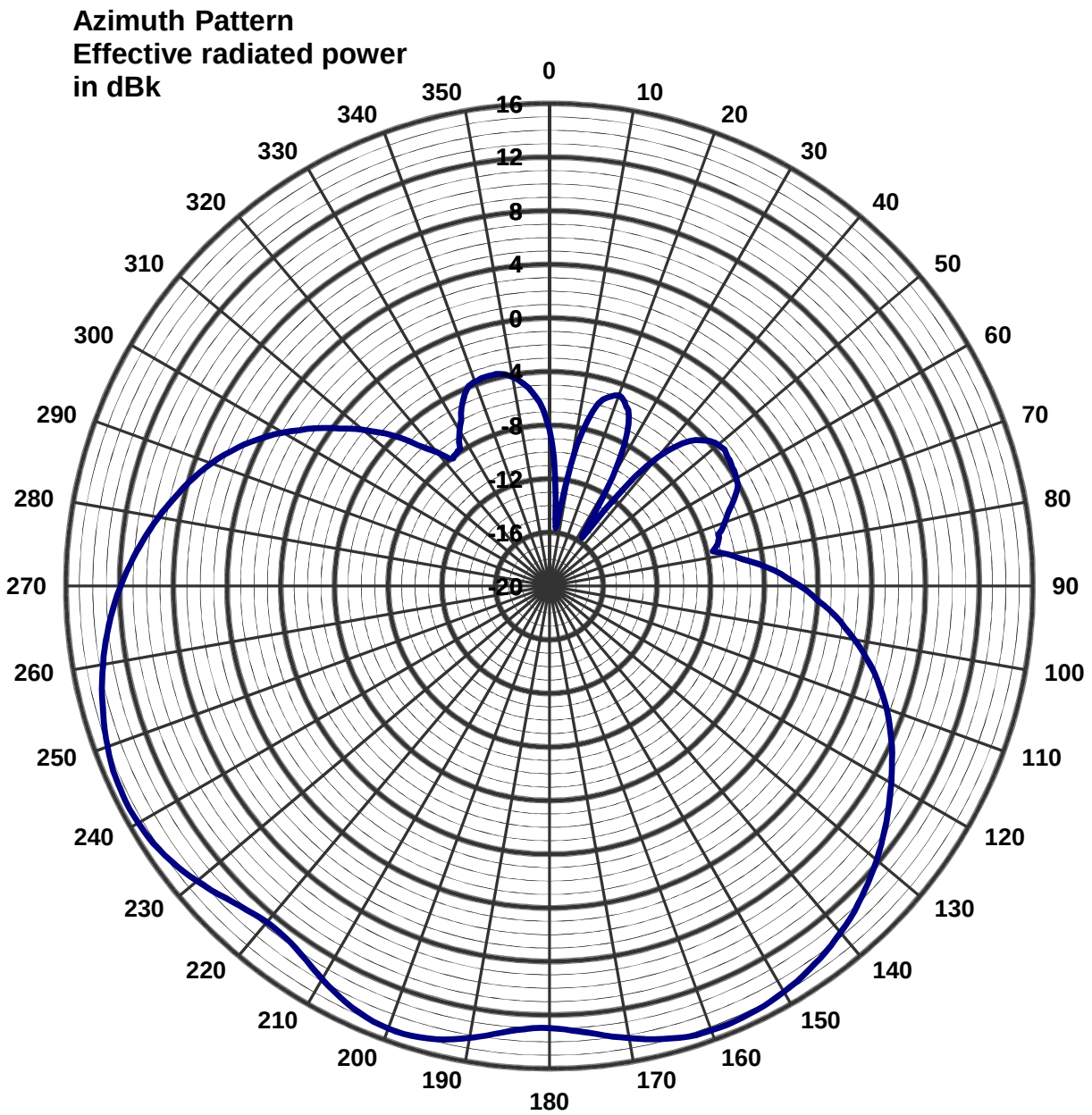

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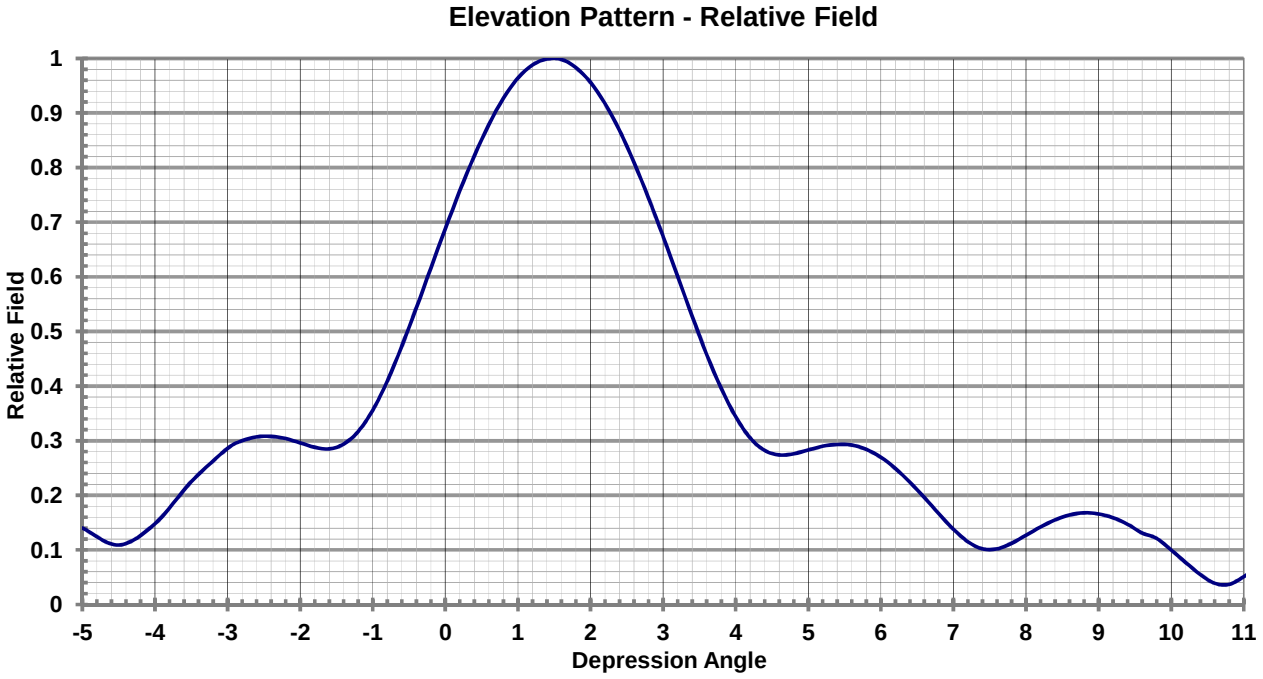
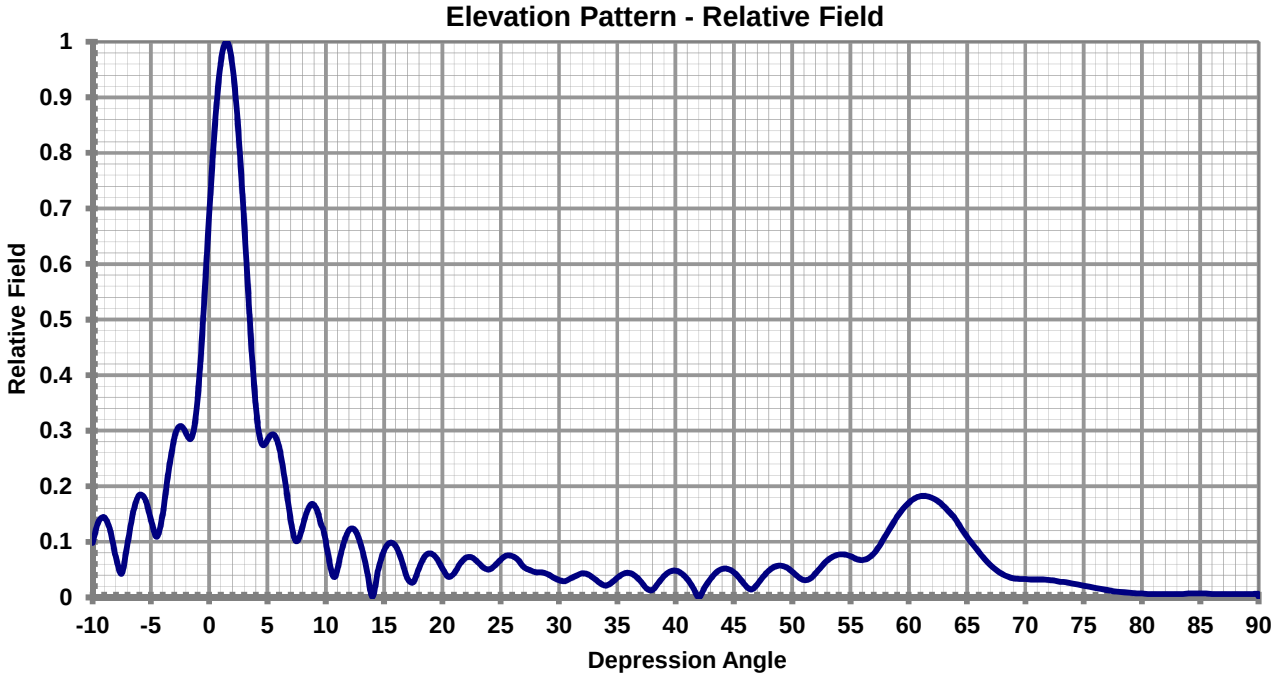
February 29, 2012

ELEVATION PATTERN (Relative Field) : Dielectric TUA-C2-8/16M-1

Electrical Beam Tilt: 1.50°		
Calculated Maximum Elevation Gain:	**16.00**	**12.04 dBd**
RMS Gain at Horizontal	**7.60**	**8.81 dBd**
Maximum Effective Radiated Power (ERP):	**34.77 kW**	**15.41 dBk**





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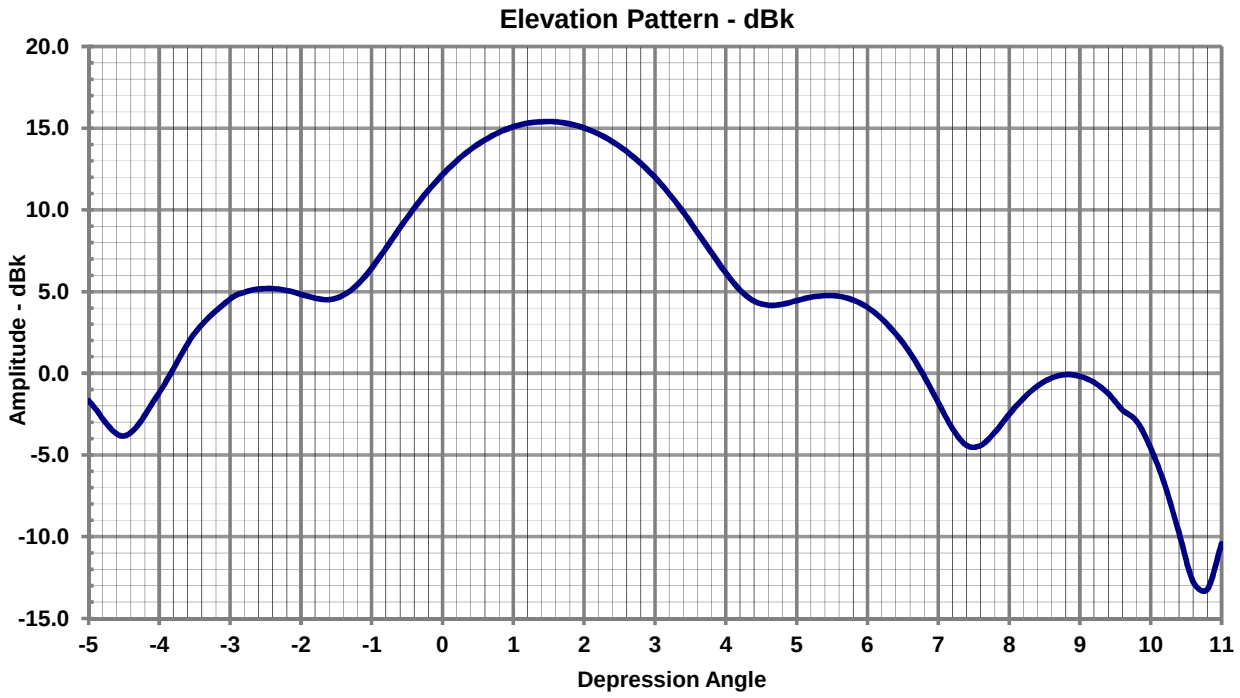
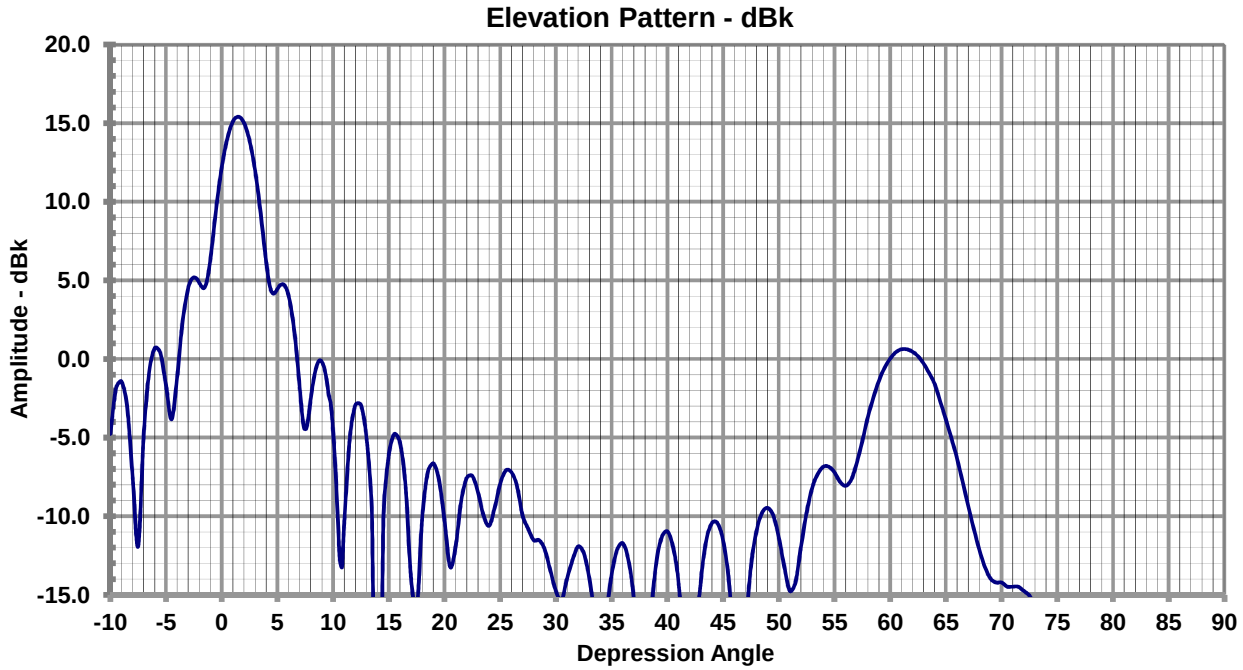
February 29, 2012

ELEVATION PATTERN (dBk) : Dielectric TUA-C2-8/16M-1

Electrical Beam Tilt: 1.50°		
Calculated Maximum Elevation Gain:	**16.00**	**12.04 dBd**
RMS Gain at Horizontal	**7.60**	**8.81 dBd**
Maximum Effective Radiated Power (ERP):	**34.77 kW**	**15.41 dBk**





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