



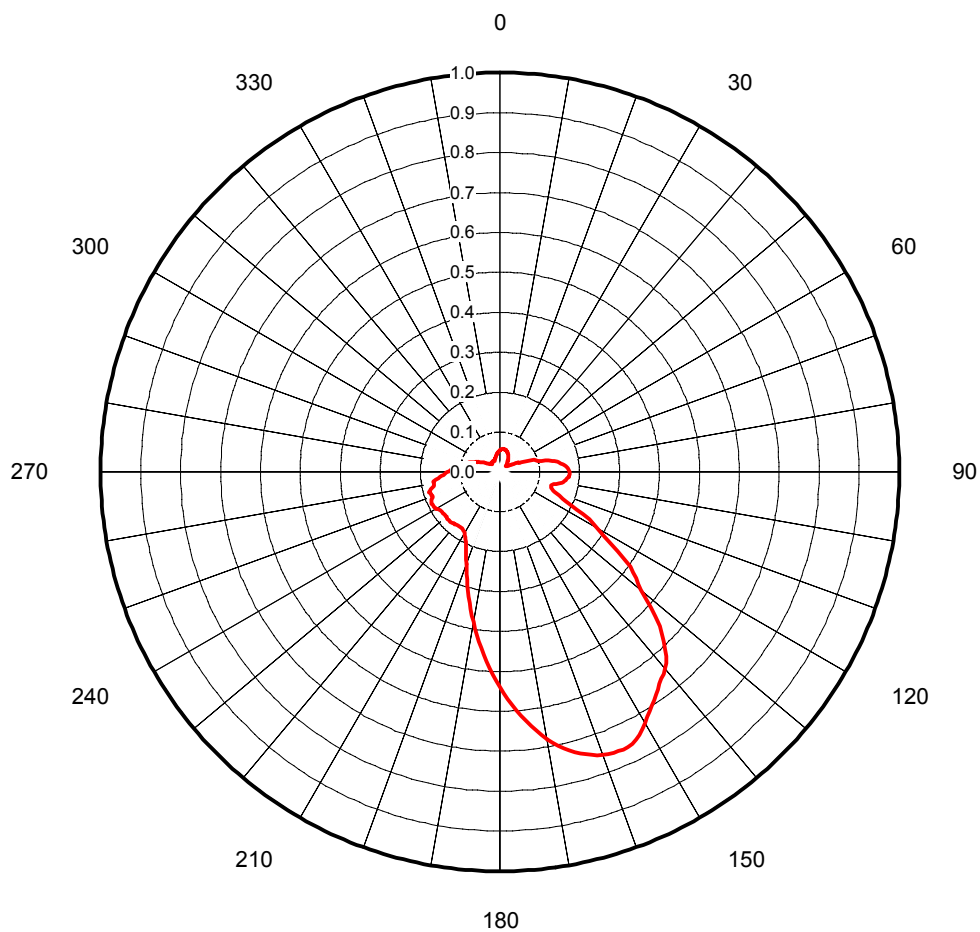
Date	12-Feb-04	Exhibit 2
Call Letters	WBNX-DT	Channel 30
Location	Akron, OH	
Customer		
Antenna Type	TFU-30DSC-R P270BNT	

AZIMUTH PATTERN:

0.00° Depression Angle

Gain
Calculated / Measured **Calculated**

Frequency **521.00 MHz**
Drawing # **TFU-P270BNT**



Mech. Tilt: 0.80°
@
Azimuth: 10 deg



Call Letters : WBNX-DT
Channel : 30
Locations : AKRON, OHIO (1000.0 kW, 593 mRCAMSL)
Antenna Type : DIE TFU-30DSC-R P270BNT
(0° DEPRESSION ANGLE)

TABULATION OF AZIMUTH PATTERN

Azimuth (deg T.)	FIELD	ERP (kW)	ERP (dBk)
0°	0.054	2.916	4.65
* 10°	0.058	3.364	5.27
20°	0.053	2.809	4.49
30°	0.041	1.681	2.26
40°	0.028	0.784	-1.06
** 50°	0.022	0.484	-3.15
60°	0.042	1.764	2.46
70°	0.09	8.100	9.08
80°	0.145	21.025	13.23
* 90°	0.174	30.276	14.81
100°	0.157	24.649	13.92
** 110°	0.145	21.025	13.23
120°	0.281	78.961	18.97
130°	0.46	211.600	23.26
140°	0.643	413.449	26.16
150°	0.727	528.529	27.23
* 160°	0.754	568.516	27.55
170°	0.68	462.400	26.65
180°	0.538	289.444	24.62
190°	0.382	145.924	21.64
200°	0.246	60.516	17.82
210°	0.177	31.329	14.96
** 220°	0.172	29.584	14.71
230°	0.175	30.625	14.86
* 240°	0.184	33.856	15.30
250°	0.179	32.041	15.06
260°	0.169	28.561	14.56
270°	0.131	17.161	12.35
280°	0.102	10.404	10.17
290°	0.071	5.041	7.03
300°	0.048	2.304	3.62
310°	0.033	1.089	0.37
** 320°	0.031	0.961	-0.17
330°	0.032	1.024	0.10
340°	0.035	1.225	0.88
350°	0.044	1.936	2.87

* Maxima ** Minima



Proposal Number

DCA-10170

Revision:

2

Date

9-Feb-04

Exhibit 2A

Call Letters

WBNX-DT

Channel

30

Location

Akron, OH

Customer

Antenna Type

TFU-30DSC-R P270BNT

AZIMUTH PATTERN

Gain

2.70

(4.31 dB)

Calculated / Measured

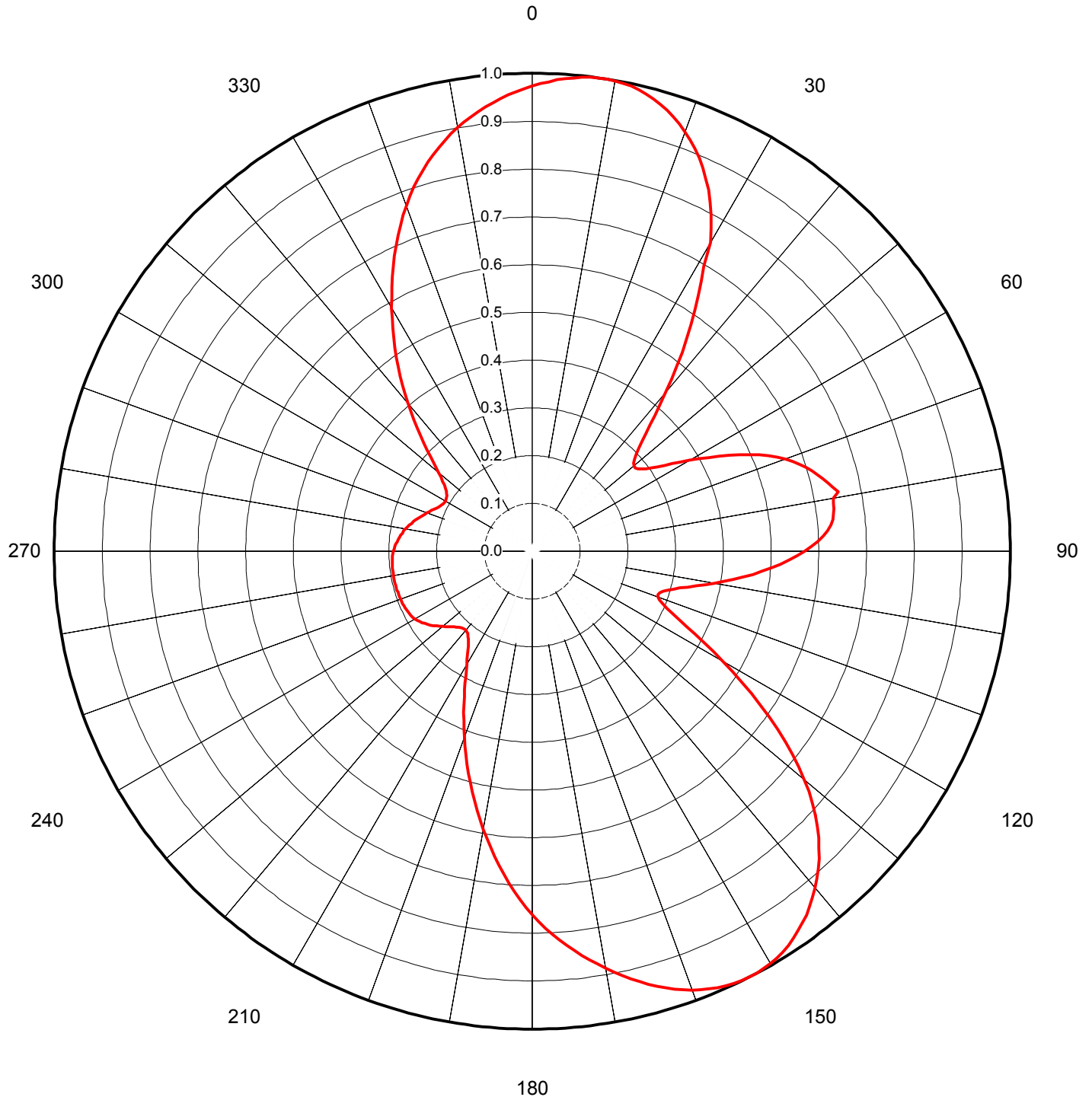
Calculated

Frequency

569.00 MHz

Drawing #

TFU-P270BNT





Proposal Number **DCA-10170** Revision: **2**
 Date **9-Feb-04** **Exhibit 3A**
 Call Letters **WBNX-DT** Channel **30**
 Location **Akron, OH**
 Customer
 Antenna Type **TFU-30DSC-R P270BNT**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-P270BNT**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.973	45	0.324	90	0.570	135	0.847	180	0.760	225	0.224	270	0.290	315	0.321
1	0.978	46	0.309	91	0.554	136	0.864	181	0.745	226	0.228	271	0.289	316	0.337
2	0.983	47	0.297	92	0.538	137	0.879	182	0.729	227	0.232	272	0.287	317	0.353
3	0.987	48	0.288	93	0.520	138	0.894	183	0.713	228	0.236	273	0.286	318	0.370
4	0.991	49	0.281	94	0.502	139	0.908	184	0.696	229	0.240	274	0.284	319	0.387
5	0.994	50	0.278	95	0.483	140	0.920	185	0.679	230	0.245	275	0.282	320	0.405
6	0.997	51	0.278	96	0.463	141	0.932	186	0.661	231	0.250	276	0.280	321	0.423
7	0.999	52	0.280	97	0.444	142	0.943	187	0.644	232	0.254	277	0.277	322	0.441
8	1.000	53	0.286	98	0.424	143	0.953	188	0.626	233	0.258	278	0.275	323	0.459
9	1.000	54	0.294	99	0.405	144	0.962	189	0.608	234	0.263	279	0.272	324	0.477
10	0.999	55	0.304	100	0.386	145	0.970	190	0.590	235	0.267	280	0.269	325	0.495
11	0.997	56	0.316	101	0.368	146	0.977	191	0.572	236	0.271	281	0.266	326	0.513
12	0.994	57	0.330	102	0.350	147	0.983	192	0.554	237	0.274	282	0.263	327	0.532
13	0.991	58	0.345	103	0.333	148	0.989	193	0.536	238	0.277	283	0.259	328	0.550
14	0.986	59	0.362	104	0.318	149	0.993	194	0.519	239	0.280	284	0.256	329	0.569
15	0.980	60	0.380	105	0.305	150	0.996	195	0.501	240	0.283	285	0.252	330	0.588
16	0.973	61	0.399	106	0.295	151	0.998	196	0.483	241	0.285	286	0.249	331	0.607
17	0.965	62	0.418	107	0.286	152	1.000	197	0.466	242	0.287	287	0.245	332	0.626
18	0.955	63	0.438	108	0.281	153	1.000	198	0.449	243	0.288	288	0.241	333	0.645
19	0.945	64	0.458	109	0.279	154	0.999	199	0.432	244	0.290	289	0.238	334	0.664
20	0.934	65	0.478	110	0.280	155	0.998	200	0.415	245	0.291	290	0.234	335	0.682
21	0.922	66	0.497	111	0.285	156	0.995	201	0.399	246	0.291	291	0.230	336	0.701
22	0.908	67	0.516	112	0.294	157	0.992	202	0.382	247	0.292	292	0.227	337	0.719
23	0.894	68	0.533	113	0.306	158	0.988	203	0.367	248	0.292	293	0.223	338	0.736
24	0.877	69	0.549	114	0.321	159	0.983	204	0.351	249	0.293	294	0.220	339	0.754
25	0.860	70	0.564	115	0.339	160	0.977	205	0.337	250	0.293	295	0.218	340	0.770
26	0.841	71	0.577	116	0.360	161	0.971	206	0.322	251	0.293	296	0.215	341	0.786
27	0.820	72	0.589	117	0.382	162	0.963	207	0.309	252	0.294	297	0.213	342	0.801
28	0.797	73	0.599	118	0.407	163	0.955	208	0.296	253	0.294	298	0.211	343	0.816
29	0.773	74	0.608	119	0.433	164	0.947	209	0.284	254	0.294	299	0.210	344	0.830
30	0.746	75	0.617	120	0.460	165	0.938	210	0.273	255	0.294	300	0.210	345	0.843
31	0.697	76	0.626	121	0.488	166	0.928	211	0.265	256	0.295	301	0.210	346	0.856
32	0.668	77	0.635	122	0.517	167	0.918	212	0.256	257	0.295	302	0.211	347	0.868
33	0.639	78	0.644	123	0.547	168	0.908	213	0.247	258	0.295	303	0.213	348	0.879
34	0.610	79	0.652	124	0.576	169	0.897	214	0.240	259	0.295	304	0.216	349	0.890
35	0.580	80	0.640	125	0.606	170	0.886	215	0.233	260	0.295	305	0.220	350	0.900
36	0.551	81	0.639	126	0.635	171	0.875	216	0.228	261	0.295	306	0.224	351	0.910
37	0.521	82	0.637	127	0.663	172	0.864	217	0.223	262	0.295	307	0.230	352	0.919
38	0.492	83	0.635	128	0.691	173	0.852	218	0.220	263	0.295	308	0.237	353	0.927
39	0.463	84	0.632	129	0.718	174	0.840	219	0.217	264	0.294	309	0.245	354	0.935
40	0.435	85	0.627	130	0.743	175	0.828	220	0.216	265	0.294	310	0.255	355	0.942
41	0.408	86	0.619	131	0.767	176	0.815	221	0.216	266	0.294	311	0.266	356	0.949
42	0.384	87	0.609	132	0.789	177	0.802	222	0.217	267	0.293	312	0.278	357	0.956
43	0.361	88	0.598	133	0.810	178	0.789	223	0.219	268	0.292	313	0.291	358	0.962
44	0.342	89	0.585	134	0.829	179	0.775	224	0.221	269	0.291	314	0.306	359	0.968

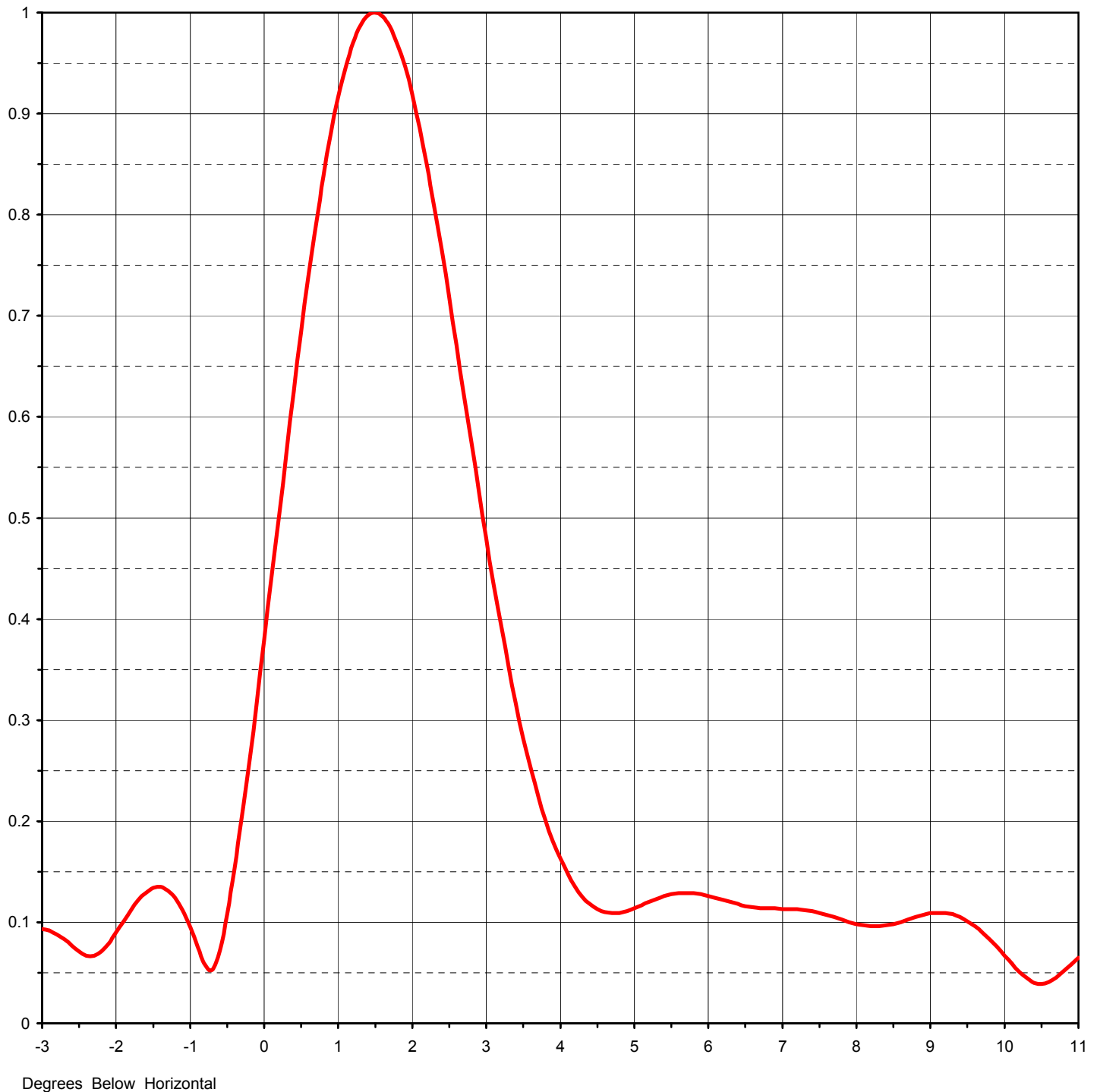


Proposal Number	DCA-10170	Revision:	2
Date	9-Feb-04	Exhibit 4A	
Call Letters	WBNX-DT	Channel	30
Location	Akron, OH		
Customer			
Antenna Type	TFU-30DSC-R P270BNT		

ELEVATION PATTERN

RMS Gain at Main Lobe	24.50 (13.89 dB)
RMS Gain at Horizontal	3.50 (5.44 dB)
Calculated / Measured	Calculated

Beam Tilt	1.50 deg
Frequency	569.00 MHz
Drawing #	30Q245150



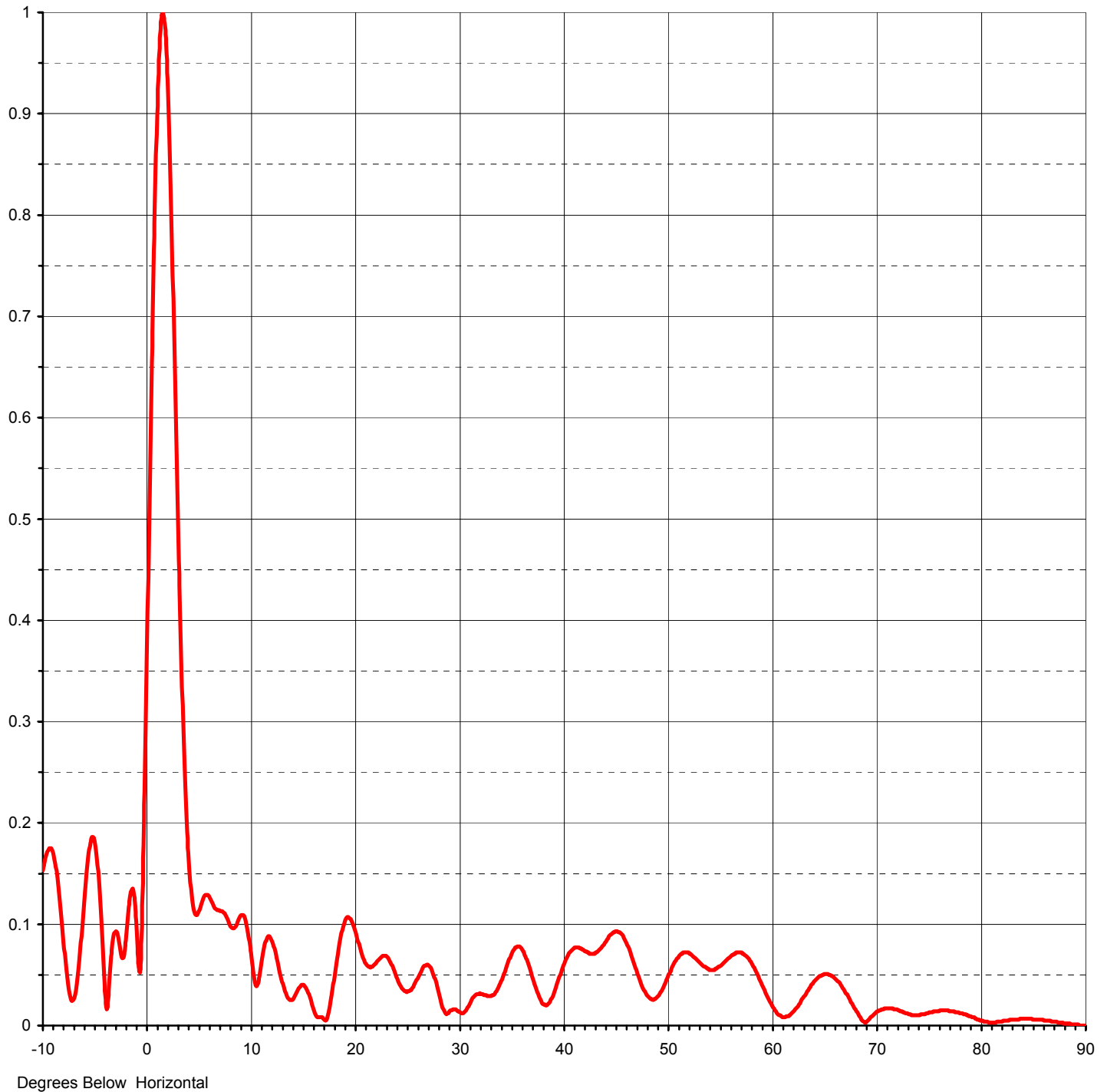


Proposal Number	DCA-10170	Revision:	2
Date	9-Feb-04	Exhibit 4B	
Call Letters	WBNX-DT	Channel	30
Location	Akron, OH		
Customer			
Antenna Type	TFU-30DSC-R P270BNT		

ELEVATION PATTERN

RMS Gain at Main Lobe	24.50 (13.89 dB)
RMS Gain at Horizontal	3.50 (5.44 dB)
Calculated / Measured	Calculated

Beam Tilt	1.50 deg
Frequency	569.00 MHz
Drawing #	30Q245150-90





Proposal Number **DCA-10170** Revision: **2**
 Date **9-Feb-04** **Exhibit 5**
 Call Letters **WBNX-DT** Channel **30**
 Location **Akron, OH**
 Customer
 Antenna Type **TFU-30DSC-R P270BNT**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **30Q245150-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.153	2.4	0.764	10.6	0.039	30.5	0.013	51.0	0.067	71.5	0.017
-9.5	0.173	2.6	0.671	10.8	0.045	31.0	0.021	51.5	0.072	72.0	0.015
-9.0	0.170	2.8	0.574	11.0	0.058	31.5	0.029	52.0	0.072	72.5	0.013
-8.5	0.135	3.0	0.480	11.5	0.084	32.0	0.032	52.5	0.068	73.0	0.011
-8.0	0.081	3.2	0.393	12.0	0.085	32.5	0.030	53.0	0.063	73.5	0.010
-7.5	0.035	3.4	0.316	12.5	0.067	33.0	0.029	53.5	0.058	74.0	0.010
-7.0	0.027	3.6	0.252	13.0	0.045	33.5	0.033	54.0	0.055	74.5	0.011
-6.5	0.064	3.8	0.201	13.5	0.029	34.0	0.042	54.5	0.055	75.0	0.013
-6.0	0.127	4.0	0.163	14.0	0.025	34.5	0.056	55.0	0.058	75.5	0.014
-5.5	0.177	4.2	0.135	14.5	0.034	35.0	0.070	55.5	0.063	76.0	0.015
-5.0	0.180	4.4	0.118	15.0	0.040	35.5	0.077	56.0	0.068	76.5	0.015
-4.5	0.122	4.6	0.110	15.5	0.034	36.0	0.076	56.5	0.071	77.0	0.014
-4.0	0.030	4.8	0.109	16.0	0.018	36.5	0.065	57.0	0.072	77.5	0.013
-3.5	0.062	5.0	0.114	16.5	0.008	37.0	0.049	57.5	0.069	78.0	0.012
-3.0	0.093	5.2	0.120	17.0	0.007	37.5	0.033	58.0	0.063	78.5	0.011
-2.8	0.088	5.4	0.126	17.5	0.013	38.0	0.022	58.5	0.053	79.0	0.009
-2.6	0.077	5.6	0.129	18.0	0.044	38.5	0.021	59.0	0.042	79.5	0.007
-2.4	0.067	5.8	0.129	18.5	0.078	39.0	0.029	59.5	0.030	80.0	0.005
-2.2	0.071	6.0	0.126	19.0	0.101	39.5	0.044	60.0	0.020	80.5	0.004
-2.0	0.090	6.2	0.122	19.5	0.106	40.0	0.059	60.5	0.012	81.0	0.003
-1.8	0.112	6.4	0.118	20.0	0.095	40.5	0.070	61.0	0.008	81.5	0.004
-1.6	0.129	6.6	0.115	20.5	0.077	41.0	0.076	61.5	0.009	82.0	0.004
-1.4	0.135	6.8	0.114	21.0	0.062	41.5	0.077	62.0	0.013	82.5	0.005
-1.2	0.124	7.0	0.113	21.5	0.057	42.0	0.074	62.5	0.019	83.0	0.006
-1.0	0.095	7.2	0.113	22.0	0.061	42.5	0.071	63.0	0.027	83.5	0.006
-0.8	0.058	7.4	0.111	22.5	0.067	43.0	0.071	63.5	0.035	84.0	0.007
-0.6	0.072	7.6	0.107	23.0	0.069	43.5	0.075	64.0	0.043	84.5	0.007
-0.4	0.153	7.8	0.103	23.5	0.061	44.0	0.082	64.5	0.049	85.0	0.006
-0.2	0.260	8.0	0.098	24.0	0.048	44.5	0.089	65.0	0.051	85.5	0.006
0.0	0.379	8.2	0.096	24.5	0.037	45.0	0.093	65.5	0.050	86.0	0.005
0.2	0.503	8.4	0.097	25.0	0.033	45.5	0.091	66.0	0.046	86.5	0.005
0.4	0.625	8.6	0.100	25.5	0.037	46.0	0.083	66.5	0.040	87.0	0.004
0.6	0.739	8.8	0.105	26.0	0.046	46.5	0.070	67.0	0.032	87.5	0.003
0.8	0.838	9.0	0.109	26.5	0.056	47.0	0.055	67.5	0.023	88.0	0.002
1.0	0.916	9.2	0.109	27.0	0.060	47.5	0.040	68.0	0.014	88.5	0.002
1.2	0.970	9.4	0.105	27.5	0.052	48.0	0.030	68.5	0.006	89.0	0.001
1.4	0.997	9.6	0.096	28.0	0.035	48.5	0.026	69.0	0.004	89.5	0.000
1.6	0.996	9.8	0.090	28.5	0.016	49.0	0.028	69.5	0.009	90.0	0.000
1.8	0.969	10.0	0.076	29.0	0.012	49.5	0.036	70.0	0.014		
2.0	0.919	10.2	0.059	29.5	0.016	50.0	0.047	70.5	0.016		
2.2	0.849	10.4	0.045	30.0	0.014	50.5	0.059	71.0	0.017		