

AZIMUTH PATTERN Horizontal Polarization

Proposal No. C-70809
 Date 16-May-17
 Call Letters WUVC
 Channel 22
 Frequency 521 MHz
 Antenna Type TFU-24GTH-R 4C140
 Gain 1.37 (1.38dB)
 Calculated

Deg	Value																						
0	0.969	36	0.649	72	0.390	108	0.650	144	0.966	180	0.962	216	0.898	252	0.976	288	0.897	324	0.961				
1	0.963	37	0.637	73	0.391	109	0.661	145	0.971	181	0.959	217	0.899	253	0.976	289	0.895	325	0.965				
2	0.958	38	0.626	74	0.392	110	0.672	146	0.975	182	0.955	218	0.900	254	0.975	290	0.895	326	0.968				
3	0.953	39	0.614	75	0.393	111	0.684	147	0.979	183	0.952	219	0.901	255	0.975	291	0.895	327	0.971				
4	0.947	40	0.603	76	0.394	112	0.695	148	0.983	184	0.949	220	0.904	256	0.975	292	0.895	328	0.974				
5	0.942	41	0.592	77	0.395	113	0.707	149	0.987	185	0.946	221	0.907	257	0.974	293	0.895	329	0.977				
6	0.937	42	0.582	78	0.396	114	0.718	150	0.988	186	0.943	222	0.909	258	0.974	294	0.895	330	0.979				
7	0.932	43	0.571	79	0.397	115	0.729	151	0.990	187	0.939	223	0.912	259	0.973	295	0.894	331	0.981				
8	0.926	44	0.560	80	0.403	116	0.741	152	0.991	188	0.936	224	0.915	260	0.971	296	0.894	332	0.983				
9	0.921	45	0.549	81	0.408	117	0.752	153	0.992	189	0.933	225	0.918	261	0.968	297	0.894	333	0.985				
10	0.913	46	0.538	82	0.414	118	0.764	154	0.993	190	0.930	226	0.921	262	0.966	298	0.894	334	0.987				
11	0.904	47	0.528	83	0.420	119	0.775	155	0.995	191	0.927	227	0.923	263	0.963	299	0.894	335	0.988				
12	0.896	48	0.517	84	0.426	120	0.785	156	0.996	192	0.925	228	0.926	264	0.961	300	0.896	336	0.990				
13	0.887	49	0.506	85	0.431	121	0.795	157	0.997	193	0.922	229	0.929	265	0.959	301	0.898	337	0.992				
14	0.879	50	0.498	86	0.437	122	0.805	158	0.999	194	0.919	230	0.932	266	0.956	302	0.900	338	0.994				
15	0.871	51	0.490	87	0.443	123	0.815	159	1.000	195	0.916	231	0.935	267	0.954	303	0.902	339	0.996				
16	0.862	52	0.482	88	0.448	124	0.825	160	0.999	196	0.913	232	0.938	268	0.951	304	0.905	340	0.996				
17	0.854	53	0.474	89	0.454	125	0.834	161	0.998	197	0.911	233	0.941	269	0.949	305	0.907	341	0.996				
18	0.845	54	0.466	90	0.463	126	0.844	162	0.997	198	0.908	234	0.945	270	0.946	306	0.909	342	0.997				
19	0.837	55	0.458	91	0.473	127	0.854	163	0.996	199	0.905	235	0.948	271	0.943	307	0.911	343	0.997				
20	0.826	56	0.450	92	0.482	128	0.864	164	0.995	200	0.904	236	0.951	272	0.939	308	0.913	344	0.997				
21	0.816	57	0.442	93	0.491	129	0.874	165	0.994	201	0.902	237	0.954	273	0.936	309	0.915	345	0.997				
22	0.805	58	0.434	94	0.501	130	0.881	166	0.993	202	0.901	238	0.957	274	0.933	310	0.918	346	0.997				
23	0.794	59	0.426	95	0.510	131	0.888	167	0.992	203	0.899	239	0.960	275	0.930	311	0.921	347	0.998				
24	0.784	60	0.422	96	0.519	132	0.896	168	0.991	204	0.898	240	0.962	276	0.927	312	0.924	348	0.998				
25	0.773	61	0.418	97	0.528	133	0.903	169	0.990	205	0.897	241	0.964	277	0.923	313	0.927	349	0.998				
26	0.762	62	0.414	98	0.538	134	0.910	170	0.988	206	0.895	242	0.965	278	0.920	314	0.930	350	0.996				
27	0.751	63	0.410	99	0.547	135	0.917	171	0.985	207	0.894	243	0.967	279	0.917	315	0.934	351	0.993				
28	0.741	64	0.407	100	0.558	136	0.924	172	0.983	208	0.892	244	0.969	280	0.915	316	0.937	352	0.991				
29	0.730	65	0.403	101	0.570	137	0.932	173	0.980	209	0.891	245	0.971	281	0.913	317	0.940	353	0.988				
30	0.718	66	0.399	102	0.581	138	0.939	174	0.978	210	0.892	246	0.973	282	0.910	318	0.943	354	0.986				
31	0.707	67	0.395	103	0.593	139	0.946	175	0.975	211	0.893	247	0.974	283	0.908	319	0.946	355	0.984				
32	0.695	68	0.391	104	0.604	140	0.950	176	0.973	212	0.894	248	0.976	284	0.906	320	0.949	356	0.981				
33	0.684	69	0.387	105	0.615	141	0.954	177	0.970	213	0.895	249	0.978	285	0.904	321	0.952	357	0.979				
34	0.672	70	0.388	106	0.627	142	0.958	178	0.967	214	0.896	250	0.978	286	0.902	322	0.955	358	0.976				
35	0.660	71	0.389	107	0.638	143	0.962	179	0.965	215	0.897	251	0.977	287	0.899	323	0.958	359	0.974				

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ELEVATION PATTERN

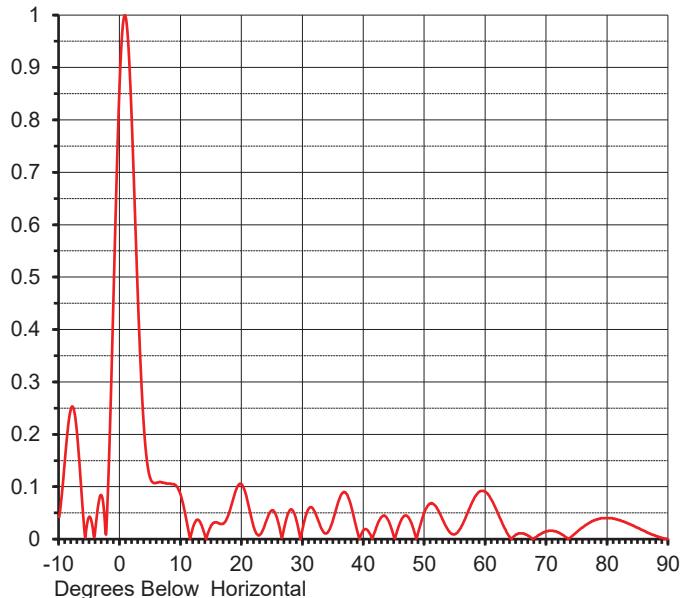
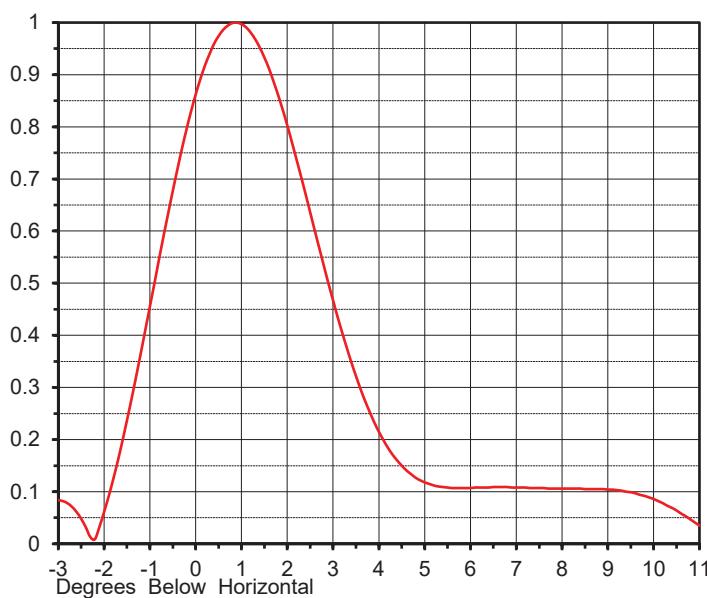
Proposal No. **C-70809**
 Date **16-May-17**
 Call Letters **WUVC**
 Channel **22**
 Frequency **521 MHz**
 Antenna Type **TFU-24GTH-R 4C140**

RMS Directivity at Main Lobe
 RMS Directivity at Horizontal

20.0 (13.01 dB)
15.9 (12.01 dB)

Calculated

Beam Tilt **0.80 deg**
 Pattern Number **24G200080**



Angle	Field								
-10.0	0.042	10.0	0.082	30.0	0.022	50.0	0.053	70.0	0.015
-9.0	0.159	11.0	0.029	31.0	0.059	51.0	0.068	71.0	0.016
-8.0	0.251	12.0	0.024	32.0	0.051	52.0	0.059	72.0	0.012
-7.0	0.193	13.0	0.035	33.0	0.021	53.0	0.036	73.0	0.005
-6.0	0.036	14.0	0.004	34.0	0.012	54.0	0.015	74.0	0.004
-5.0	0.043	15.0	0.027	35.0	0.039	55.0	0.010	75.0	0.014
-4.0	0.026	16.0	0.031	36.0	0.077	56.0	0.024	76.0	0.023
-3.0	0.082	17.0	0.030	37.0	0.089	57.0	0.049	77.0	0.031
-2.0	0.091	18.0	0.054	38.0	0.059	58.0	0.075	78.0	0.037
-1.0	0.500	19.0	0.093	39.0	0.012	59.0	0.091	79.0	0.040
0.0	0.891	20.0	0.104	40.0	0.018	60.0	0.090	80.0	0.040
1.0	0.991	21.0	0.068	41.0	0.010	61.0	0.074	81.0	0.039
2.0	0.771	22.0	0.021	42.0	0.021	62.0	0.049	82.0	0.036
3.0	0.435	23.0	0.009	43.0	0.043	63.0	0.023	83.0	0.032
4.0	0.199	24.0	0.035	44.0	0.036	64.0	0.003	84.0	0.027
5.0	0.115	25.0	0.055	45.0	0.003	65.0	0.009	85.0	0.021
6.0	0.108	26.0	0.030	46.0	0.033	66.0	0.011	86.0	0.016
7.0	0.108	27.0	0.025	47.0	0.045	67.0	0.006	87.0	0.010
8.0	0.106	28.0	0.056	48.0	0.024	68.0	0.002	88.0	0.006
9.0	0.104	29.0	0.033	49.0	0.016	69.0	0.010	89.0	0.002
								90.0	0.000

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