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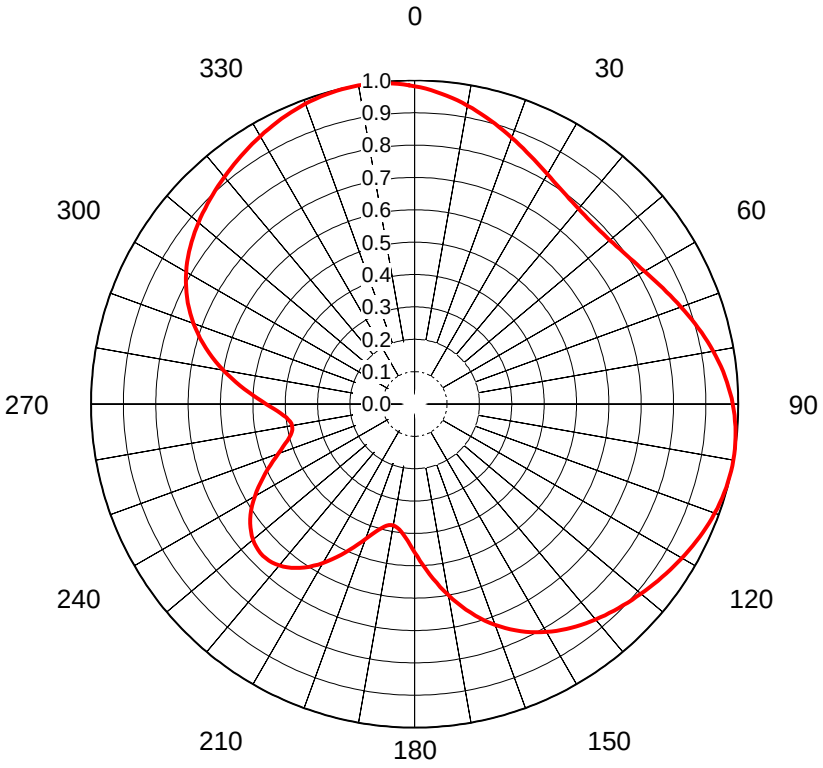

AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**KPTM/KXVO**
Date	**14-Dec-21**
Call Letters	**KPTM**
Channel	**26**
Frequency	**545 MHz**
Antenna Type	**TFU-24WB/VP-R C160**
Gain	**1.6 (2.05dB)**
	Calculated
Pattern Number	**WB-C160-26 Hpol**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.982	36	0.797	72	0.889	108	0.992	144	0.849	180	0.458	216	0.626	252	0.427	288	0.705	324	0.931
1	0.979	37	0.794	73	0.895	109	0.989	145	0.844	181	0.446	217	0.634	253	0.417	289	0.716	325	0.935
2	0.975	38	0.792	74	0.901	110	0.987	146	0.838	182	0.434	218	0.640	254	0.409	290	0.727	326	0.939
3	0.971	39	0.790	75	0.907	111	0.984	147	0.833	183	0.423	219	0.646	255	0.401	291	0.738	327	0.943
4	0.967	40	0.788	76	0.913	112	0.981	148	0.826	184	0.413	220	0.651	256	0.395	292	0.748	328	0.947
5	0.962	41	0.786	77	0.920	113	0.978	149	0.820	185	0.404	221	0.655	257	0.390	293	0.758	329	0.951
6	0.958	42	0.785	78	0.926	114	0.975	150	0.813	186	0.397	222	0.659	258	0.387	294	0.767	330	0.955
7	0.953	43	0.784	79	0.931	115	0.972	151	0.806	187	0.391	223	0.661	259	0.385	295	0.776	331	0.959
8	0.947	44	0.783	80	0.937	116	0.968	152	0.799	188	0.386	224	0.662	260	0.385	296	0.785	332	0.962
9	0.942	45	0.783	81	0.943	117	0.965	153	0.791	189	0.383	225	0.663	261	0.386	297	0.793	333	0.966
10	0.937	46	0.783	82	0.948	118	0.961	154	0.783	190	0.381	226	0.663	262	0.389	298	0.801	334	0.969
11	0.931	47	0.784	83	0.953	119	0.957	155	0.775	191	0.381	227	0.661	263	0.393	299	0.808	335	0.973
12	0.925	48	0.785	84	0.958	120	0.953	156	0.766	192	0.383	228	0.659	264	0.399	300	0.815	336	0.976
13	0.919	49	0.786	85	0.963	121	0.949	157	0.757	193	0.386	229	0.656	265	0.407	301	0.822	337	0.979
14	0.913	50	0.788	86	0.968	122	0.945	158	0.747	194	0.391	230	0.652	266	0.415	302	0.829	338	0.982
15	0.907	51	0.790	87	0.972	123	0.941	159	0.737	195	0.397	231	0.647	267	0.425	303	0.835	339	0.985
16	0.901	52	0.792	88	0.976	124	0.937	160	0.726	196	0.405	232	0.642	268	0.435	304	0.841	340	0.987
17	0.895	53	0.794	89	0.980	125	0.933	161	0.715	197	0.413	233	0.635	269	0.447	305	0.847	341	0.989
18	0.888	54	0.797	90	0.983	126	0.929	162	0.704	198	0.423	234	0.628	270	0.459	306	0.852	342	0.992
19	0.882	55	0.800	91	0.986	127	0.925	163	0.692	199	0.433	235	0.620	271	0.472	307	0.857	343	0.993
20	0.876	56	0.804	92	0.989	128	0.921	164	0.680	200	0.444	236	0.611	272	0.486	308	0.862	344	0.995
21	0.870	57	0.808	93	0.991	129	0.917	165	0.668	201	0.456	237	0.602	273	0.500	309	0.867	345	0.996
22	0.864	58	0.812	94	0.994	130	0.913	166	0.655	202	0.468	238	0.592	274	0.514	310	0.872	346	0.998
23	0.858	59	0.816	95	0.995	131	0.908	167	0.642	203	0.481	239	0.581	275	0.528	311	0.877	347	0.998
24	0.852	60	0.820	96	0.997	132	0.904	168	0.628	204	0.493	240	0.570	276	0.543	312	0.881	348	0.999
25	0.846	61	0.825	97	0.998	133	0.900	169	0.614	205	0.506	241	0.559	277	0.557	313	0.886	349	0.999
26	0.841	62	0.830	98	0.999	134	0.896	170	0.600	206	0.519	242	0.547	278	0.572	314	0.890	350	0.999
27	0.835	63	0.835	99	1.000	135	0.892	171	0.586	207	0.531	243	0.535	279	0.586	315	0.894	351	0.999
28	0.830	64	0.841	100	1.000	136	0.887	172	0.571	208	0.544	244	0.522	280	0.600	316	0.899	352	0.998
29	0.825	65	0.846	101	1.000	137	0.883	173	0.557	209	0.556	245	0.510	281	0.615	317	0.903	353	0.997
30	0.820	66	0.852	102	1.000	138	0.879	174	0.542	210	0.568	246	0.497	282	0.628	318	0.907	354	0.996
31	0.816	67	0.858	103	0.999	139	0.874	175	0.528	211	0.579	247	0.484	283	0.642	319	0.911	355	0.995
32	0.811	68	0.864	104	0.998	140	0.869	176	0.513	212	0.590	248	0.472	284	0.655	320	0.915	356	0.993
33	0.807	69	0.870	105	0.997	141	0.865	177	0.499	213	0.600	249	0.460	285	0.668	321	0.919	357	0.991
34	0.804	70	0.876	106	0.995	142	0.860	178	0.485	214	0.609	250	0.448	286	0.681	322	0.923	358	0.988
35	0.800	71	0.882	107	0.994	143	0.855	179	0.471	215	0.618	251	0.437	287	0.693	323	0.927	359	0.985

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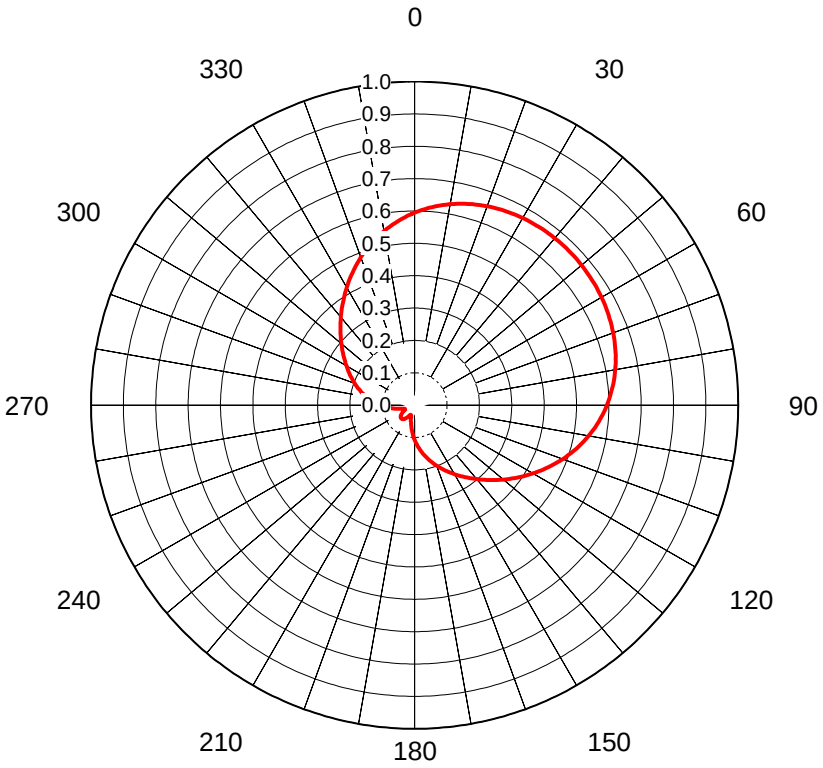


AZIMUTH PATTERN
Verttical Polarization

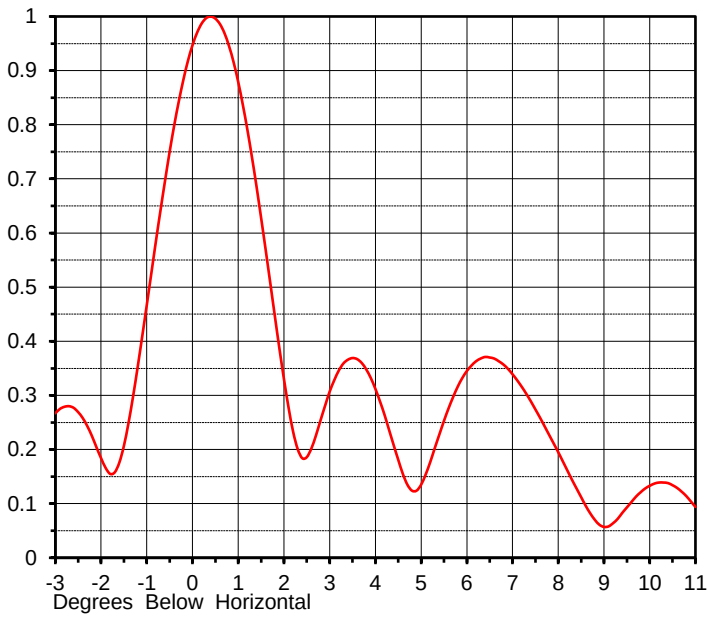
Proposal No.	**KPTM/KXVO**
Date	**14-Dec-21**
Call Letters	**KPTM**
Channel	**26**
Frequency	**545 MHz**
Antenna Type	**TFU-24WB/VP-R C160**
Gain	**2.6 (4.15dB)**
	Calculated
Pattern Number	**WB-C160-26 Vpol**

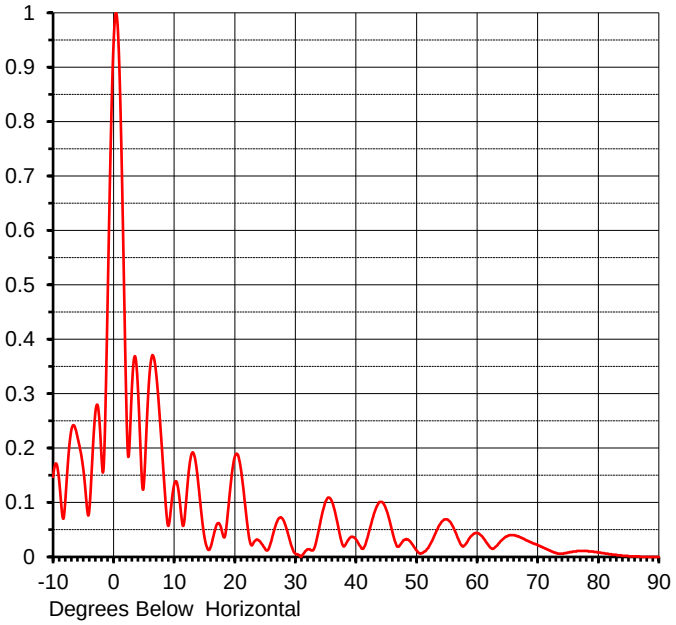
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.595	36	0.672	72	0.649	108	0.499	144	0.277	180	0.107	216	0.052	252	0.036	288	0.188	324	0.380
1	0.599	37	0.673	73	0.647	109	0.493	145	0.272	181	0.103	217	0.053	253	0.038	289	0.193	325	0.387
2	0.603	38	0.673	74	0.645	110	0.487	146	0.266	182	0.098	218	0.054	254	0.041	290	0.198	326	0.393
3	0.607	39	0.673	75	0.642	111	0.481	147	0.261	183	0.094	219	0.055	255	0.044	291	0.202	327	0.400
4	0.611	40	0.674	76	0.640	112	0.474	148	0.256	184	0.089	220	0.056	256	0.047	292	0.207	328	0.407
5	0.614	41	0.674	77	0.638	113	0.468	149	0.251	185	0.084	221	0.057	257	0.051	293	0.211	329	0.413
6	0.618	42	0.674	78	0.635	114	0.461	150	0.246	186	0.080	222	0.058	258	0.054	294	0.216	330	0.420
7	0.621	43	0.674	79	0.632	115	0.455	151	0.241	187	0.075	223	0.058	259	0.058	295	0.220	331	0.427
8	0.625	44	0.674	80	0.629	116	0.448	152	0.237	188	0.071	224	0.058	260	0.062	296	0.225	332	0.433
9	0.628	45	0.674	81	0.626	117	0.442	153	0.232	189	0.067	225	0.058	261	0.066	297	0.230	333	0.440
10	0.631	46	0.674	82	0.623	118	0.435	154	0.227	190	0.063	226	0.058	262	0.070	298	0.234	334	0.447
11	0.633	47	0.674	83	0.620	119	0.429	155	0.222	191	0.059	227	0.058	263	0.075	299	0.239	335	0.453
12	0.636	48	0.674	84	0.617	120	0.422	156	0.218	192	0.055	228	0.058	264	0.079	300	0.244	336	0.460
13	0.639	49	0.674	85	0.613	121	0.416	157	0.213	193	0.051	229	0.057	265	0.084	301	0.249	337	0.466
14	0.641	50	0.673	86	0.610	122	0.409	158	0.208	194	0.048	230	0.056	266	0.088	302	0.254	338	0.473
15	0.644	51	0.673	87	0.606	123	0.402	159	0.204	195	0.044	231	0.055	267	0.093	303	0.259	339	0.480
16	0.646	52	0.672	88	0.602	124	0.396	160	0.199	196	0.041	232	0.054	268	0.097	304	0.264	340	0.486
17	0.648	53	0.672	89	0.598	125	0.389	161	0.195	197	0.039	233	0.053	269	0.102	305	0.269	341	0.492
18	0.650	54	0.671	90	0.594	126	0.383	162	0.190	198	0.037	234	0.052	270	0.106	306	0.274	342	0.499
19	0.652	55	0.671	91	0.590	127	0.377	163	0.186	199	0.035	235	0.050	271	0.111	307	0.279	343	0.505
20	0.654	56	0.670	92	0.585	128	0.370	164	0.181	200	0.033	236	0.049	272	0.116	308	0.284	344	0.511
21	0.656	57	0.669	93	0.581	129	0.364	165	0.176	201	0.033	237	0.047	273	0.120	309	0.290	345	0.517
22	0.658	58	0.668	94	0.576	130	0.358	166	0.172	202	0.032	238	0.046	274	0.125	310	0.295	346	0.523
23	0.659	59	0.668	95	0.572	131	0.351	167	0.167	203	0.033	239	0.044	275	0.129	311	0.301	347	0.529
24	0.661	60	0.667	96	0.567	132	0.345	168	0.163	204	0.033	240	0.042	276	0.134	312	0.307	348	0.535
25	0.662	61	0.666	97	0.562	133	0.339	169	0.158	205	0.034	241	0.040	277	0.139	313	0.312	349	0.540
26	0.663	62	0.665	98	0.556	134	0.333	170	0.154	206	0.035	242	0.039	278	0.143	314	0.318	350	0.546
27	0.665	63	0.663	99	0.551	135	0.327	171	0.149	207	0.037	243	0.037	279	0.148	315	0.324	351	0.551
28	0.666	64	0.662	100	0.546	136	0.321	172	0.145	208	0.038	244	0.035	280	0.152	316	0.330	352	0.557
29	0.667	65	0.661	101	0.540	137	0.315	173	0.140	209	0.040	245	0.034	281	0.157	317	0.336	353	0.562
30	0.668	66	0.659	102	0.535	138	0.310	174	0.135	210	0.042	246	0.033	282	0.161	318	0.342	354	0.567
31	0.669	67	0.658	103	0.529	139	0.304	175	0.131	211	0.044	247	0.033	283	0.166	319	0.348	355	0.572
32	0.669	68	0.656	104	0.523	140	0.298	176	0.126	212	0.046	248	0.032	284	0.170	320	0.355	356	0.577
33	0.670	69	0.655	105	0.518	141	0.293	177	0.121	213	0.047	249	0.033	285	0.175	321	0.361	357	0.582
34	0.671	70	0.653	106	0.512	142	0.287	178	0.117	214	0.049	250	0.033	286	0.179	322	0.367	358	0.586
35	0.671	71	0.651	107	0.505	143	0.282	179	0.112	215	0.050	251	0.035	287	0.184	323	0.374	359	0.591

ELEVATION PATTERN

Proposal No.	**KPTM/KXVO**
Date	**14-Dec-21**
Call Letters	**KPTM**
Channel	**26**
Frequency	**545 MHz**
Antenna Type	**TFU-24WB/VP-R C160**

RMS Directivity at Main Lobe	**21.5 (13.33 dB)**	Beam Tilt	**0.50 deg**
RMS Directivity at Horizontal	**19.3 (12.86 dB)**	Pattern Number	**24W215050-26**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.147	10.0	0.133	30.0	0.006	50.0	0.012	70.0	0.022
-9.0	0.141	11.0	0.094	31.0	0.001	51.0	0.007	71.0	0.017
-8.0	0.100	12.0	0.107	32.0	0.014	52.0	0.018	72.0	0.012
-7.0	0.232	13.0	0.192	33.0	0.013	53.0	0.040	73.0	0.007
-6.0	0.222	14.0	0.132	34.0	0.057	54.0	0.062	74.0	0.006
-5.0	0.161	15.0	0.036	35.0	0.102	55.0	0.069	75.0	0.008
-4.0	0.088	16.0	0.018	36.0	0.103	56.0	0.056	76.0	0.010
-3.0	0.267	17.0	0.059	37.0	0.060	57.0	0.030	77.0	0.011
-2.0	0.184	18.0	0.042	38.0	0.019	58.0	0.022	78.0	0.011
-1.0	0.467	19.0	0.097	39.0	0.035	59.0	0.038	79.0	0.010
0.0	0.947	20.0	0.184	40.0	0.032	60.0	0.044	80.0	0.008
1.0	0.879	21.0	0.162	41.0	0.015	61.0	0.035	81.0	0.007
2.0	0.330	22.0	0.066	42.0	0.039	62.0	0.020	82.0	0.005
3.0	0.307	23.0	0.024	43.0	0.080	63.0	0.018	83.0	0.004
4.0	0.312	24.0	0.030	44.0	0.101	64.0	0.030	84.0	0.002
5.0	0.135	25.0	0.015	45.0	0.087	65.0	0.038	85.0	0.001
6.0	0.345	26.0	0.028	46.0	0.047	66.0	0.040	86.0	0.001
7.0	0.339	27.0	0.065	47.0	0.019	67.0	0.037	87.0	0.000
8.0	0.195	28.0	0.068	48.0	0.031	68.0	0.031	88.0	0.000
9.0	0.057	29.0	0.034	49.0	0.028	69.0	0.026	89.0	0.000
								90.0	0.000