



Exhibit No.

Date

Call Letters

Location

Customer

Antenna Type

Channel **9**

**THV-5A9**

### ELEVATION PATTERN

RMS Gain at Main Lobe

**5.0 (6.99 dB)**

Beam Tilt

**1.50 Degrees**

RMS Gain at Horizontal

**4.7 (6.72 dB)**

Frequency

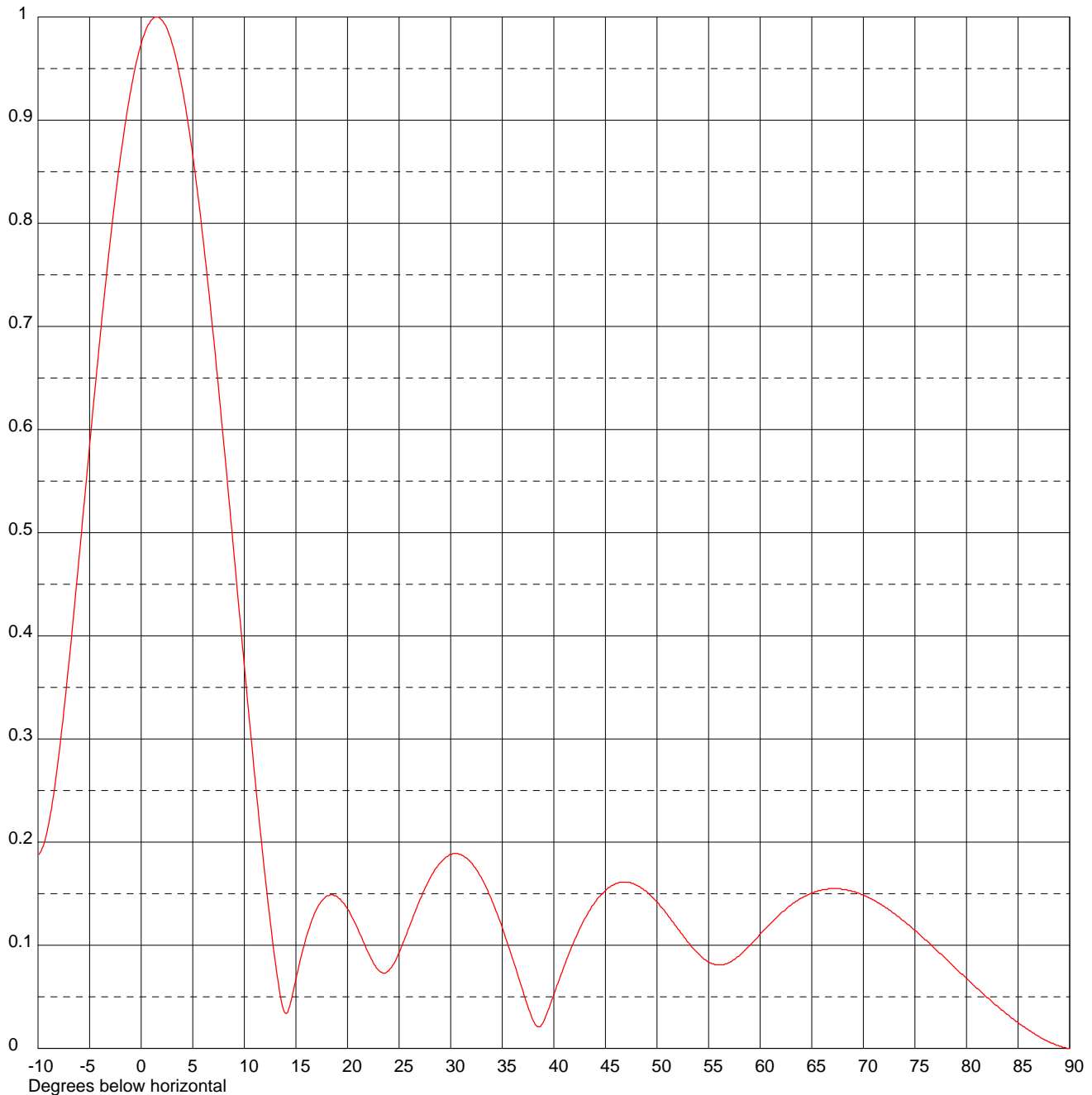
**189.00 MHz**

Calculated / Measured

**Calculated**

Drawing #

**05V050150-90**



Remarks:



Date

Call Letters

Location

Customer

Antenna Type **THV-5A9**Channel **9**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **05V050150-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.187	2.4	0.991	10.6	0.307	30.5	0.189	51.0	0.130	71.5	0.141
-9.5	0.196	2.6	0.986	10.8	0.286	31.0	0.188	51.5	0.123	72.0	0.138
-9.0	0.216	2.8	0.981	11.0	0.265	31.5	0.185	52.0	0.116	72.5	0.134
-8.5	0.245	3.0	0.974	11.5	0.215	32.0	0.180	52.5	0.110	73.0	0.131
-8.0	0.283	3.2	0.967	12.0	0.168	32.5	0.173	53.0	0.103	73.5	0.127
-7.5	0.327	3.4	0.959	12.5	0.124	33.0	0.165	53.5	0.097	74.0	0.123
-7.0	0.374	3.6	0.950	13.0	0.084	33.5	0.155	54.0	0.092	74.5	0.119
-6.5	0.425	3.8	0.940	13.5	0.050	34.0	0.143	54.5	0.087	75.0	0.114
-6.0	0.478	4.0	0.930	14.0	0.034	34.5	0.131	55.0	0.084	75.5	0.110
-5.5	0.531	4.2	0.918	14.5	0.045	35.0	0.117	55.5	0.082	76.0	0.105
-5.0	0.585	4.4	0.906	15.0	0.067	35.5	0.102	56.0	0.081	76.5	0.101
-4.5	0.637	4.6	0.893	15.5	0.089	36.0	0.087	56.5	0.081	77.0	0.096
-4.0	0.688	4.8	0.880	16.0	0.108	36.5	0.071	57.0	0.083	77.5	0.092
-3.5	0.737	5.0	0.866	16.5	0.123	37.0	0.056	57.5	0.086	78.0	0.087
-3.0	0.783	5.2	0.851	17.0	0.135	37.5	0.040	58.0	0.090	78.5	0.082
-2.8	0.801	5.4	0.835	17.5	0.143	38.0	0.027	58.5	0.095	79.0	0.077
-2.6	0.818	5.6	0.819	18.0	0.148	38.5	0.021	59.0	0.100	79.5	0.072
-2.4	0.834	5.8	0.802	18.5	0.149	39.0	0.026	59.5	0.105	80.0	0.068
-2.2	0.850	6.0	0.785	19.0	0.147	39.5	0.038	60.0	0.111	80.5	0.063
-2.0	0.865	6.2	0.767	19.5	0.142	40.0	0.052	60.5	0.116	81.0	0.058
-1.8	0.879	6.4	0.748	20.0	0.135	40.5	0.066	61.0	0.121	81.5	0.054
-1.6	0.893	6.6	0.730	20.5	0.126	41.0	0.080	61.5	0.126	82.0	0.049
-1.4	0.906	6.8	0.710	21.0	0.116	41.5	0.093	62.0	0.131	82.5	0.045
-1.2	0.918	7.0	0.691	21.5	0.104	42.0	0.105	62.5	0.135	83.0	0.041
-1.0	0.929	7.2	0.671	22.0	0.093	42.5	0.116	63.0	0.139	83.5	0.037
-0.8	0.940	7.4	0.650	22.5	0.083	43.0	0.126	63.5	0.143	84.0	0.033
-0.6	0.950	7.6	0.629	23.0	0.076	43.5	0.134	64.0	0.146	84.5	0.029
-0.4	0.959	7.8	0.608	23.5	0.073	44.0	0.142	64.5	0.148	85.0	0.025
-0.2	0.967	8.0	0.587	24.0	0.075	44.5	0.148	65.0	0.151	85.5	0.021
0.0	0.974	8.2	0.566	24.5	0.082	45.0	0.153	65.5	0.152	86.0	0.018
0.2	0.981	8.4	0.544	25.0	0.093	45.5	0.157	66.0	0.154	86.5	0.015
0.4	0.986	8.6	0.523	25.5	0.105	46.0	0.160	66.5	0.154	87.0	0.012
0.6	0.991	8.8	0.501	26.0	0.118	46.5	0.161	67.0	0.155	87.5	0.009
0.8	0.994	9.0	0.479	26.5	0.131	47.0	0.161	67.5	0.155	88.0	0.006
1.0	0.997	9.2	0.457	27.0	0.144	47.5	0.160	68.0	0.154	88.5	0.004
1.2	0.999	9.4	0.435	27.5	0.155	48.0	0.158	68.5	0.153	89.0	0.002
1.4	1.000	9.6	0.414	28.0	0.165	48.5	0.155	69.0	0.152	89.5	0.001
1.6	1.000	9.8	0.392	28.5	0.174	49.0	0.152	69.5	0.151	90.0	0.000
1.8	0.999	10.0	0.370	29.0	0.180	49.5	0.147	70.0	0.149		
2.0	0.997	10.2	0.349	29.5	0.185	50.0	0.142	70.5	0.146		
2.2	0.994	10.4	0.328	30.0	0.188	50.5	0.136	71.0	0.144		

Remarks: