

frequency in MHz 519.250
 down-tilt in ° .0
 max / mean in dB 4.31

Idaho Public Television

SCALA Medford Oregon	1 x 2 750 10210 (formerly K723147)	Typ Nr.
MB 6.3.18 13:32	CH: 22	Bl.:

simulation with typical exactness of +/- 8% of max signal

Azimuth Radiation Pattern in % and dB at downtilt: .0

f = 519.250MHz

azimuth	%	dB	azimuth	%	dB
0	100.0	.0	180	9.2	-20.7
5	98.9	-.1	185	8.2	-21.8
10	94.9	-.5	190	6.4	-23.8
15	89.7	-.9	195	5.6	-25.0
20	85.2	-1.4	200	7.2	-22.8
25	83.5	-1.6	205	9.8	-20.2
30	85.2	-1.4	210	12.2	-18.3
35	88.5	-1.1	215	13.3	-17.5
40	91.9	-.7	220	14.1	-17.0
45	93.6	-.6	225	14.7	-16.6
50	93.3	-.6	230	15.6	-16.1
55	90.5	-.9	235	17.3	-15.3
60	85.6	-1.3	240	19.9	-14.0
65	79.6	-2.0	245	22.9	-12.8
70	72.9	-2.7	250	26.1	-11.7
75	66.1	-3.6	255	29.8	-10.5
80	59.0	-4.6	260	34.5	-9.2
85	51.9	-5.7	265	40.2	-7.9
90	45.3	-6.9	270	45.6	-6.8
95	39.6	-8.0	275	52.4	-5.6
100	34.7	-9.2	280	59.5	-4.5
105	30.2	-10.4	285	66.6	-3.5
110	26.3	-11.6	290	73.9	-2.6
115	23.0	-12.8	295	80.5	-1.9
120	20.4	-13.8	300	86.7	-1.2
125	17.8	-15.0	305	91.4	-.8
130	16.3	-15.8	310	94.0	-.5
135	15.3	-16.3	315	93.8	-.6
140	14.8	-16.6	320	91.9	-.7
145	13.8	-17.2	325	88.1	-1.1
150	12.3	-18.2	330	83.9	-1.5
155	10.3	-19.8	335	82.0	-1.7
160	7.9	-22.1	340	83.0	-1.6
165	6.7	-23.5	345	87.6	-1.2
170	7.5	-22.5	350	93.6	-.6
175	8.8	-21.1	355	98.5	-.1
180	9.2	-20.7	360	100.0	.0

maximum fieldstrength was found at:

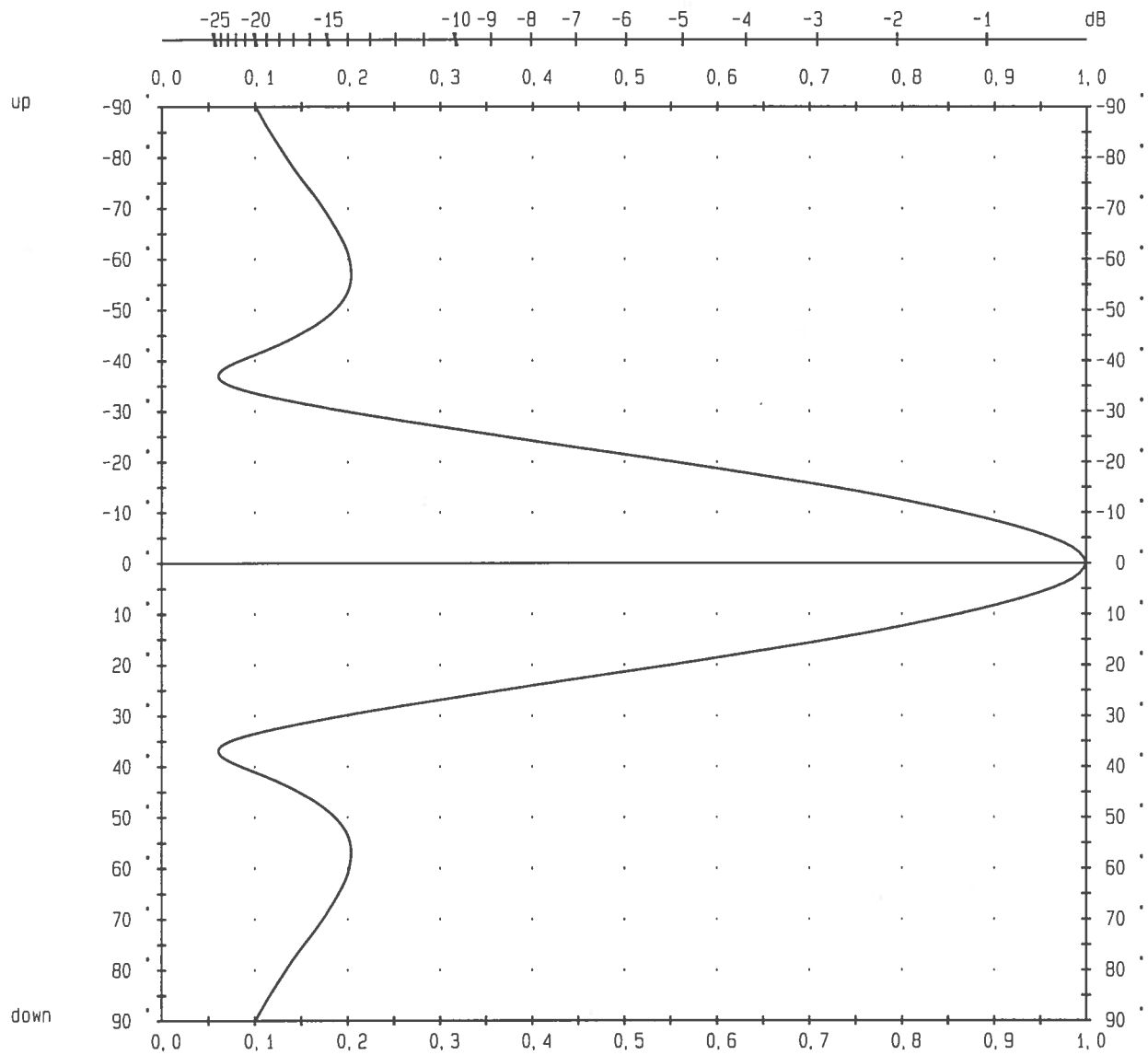
azimuth 0.

downtilt 0.

Idaho Public Television

S C A L A Medford Oregon	1 x 2 750 10210 (formerly K723147) CH: 22	Typ Nr.
		Bl.:

MB 6.3.18 13:32



frequency in MHz 519.250
 azimuth in .0
 omni-dir in dBd 3.35

Idaho Public Television

SCALA Medford Oregon	1 x 2 750 10210 (formerly K723147)	Typ Nr.
MB 6.3.18 13:31	CH: 22	B1..

Dimensions and Feeding of Antenna System

antenna type: t. panel i All-purpose panel 470-862 MHz

```

operating f in MHz : 519.250 .000 .000 .000 .000
operating channels : 22 0 0 0 0
database f in MHz : 500
max. azimuth angle 180 max. declination 90 cable design frequency: 531.250 MHz
compensation in % : .00 .00 .00 .00 .00
    
```

```

bay height v-feed power|cab-ph|fix-ph panel|azipos|azidir| radius| tanoff | radoff | tilt| power|cab-ph|fix-ph
1 0 1.0| 0| 0 1| 45.0| 45.0| 265.0| .0| .0| .0| 1.0| 0| 0
2| 315.0| 315.0| 265.0| .0| .0| .0| 1.0| 0| 0
    
```

Directivity from HRP and zoomed VRP

```

operating f in MHz : 519.250 .000 .000 .000 .000
operating channel : 22 0 0 0 0
HRP max/mean in dB : 4.31 .00 .00 .00 .00
VRP omnidir in dB : 3.35 .00 .00 .00 .00
directivity in dB : 7.66 .00 .00 .00 .00
harness losses : .00 .00 .00 .00 .00
gain in dB : 7.66 .00 .00 .00 .00
    
```

allow +/-0.5 dB tolerance for pattern variations

harness parameters at cable design frequency:

bay feeder : .0 m 5AAα@L@ (a = .00 dB)

antenna cable: .0 m 5AAα@L@ (a = .00 dB)

Idaho Public Television

SCALA Medford Oregon	1 x 2 750 10210 (formerly K723147)	Typ Nr.
MB 6.3.18 13:32	CH: 22	Bl.: