

Channel-Six TV Protection Study

WBRC LI 06- 2C Dom 100.000 kW 420 M HAAT V CY
Birmingham AL 615M COR AMSL
Lat= 33 29 19, Lng= 86 47 58
Wbrc License, Inc. BLCT19880229KI
Fac ID# 71221, Cutoff Date= 880531
Dist.=134.4647 km, Azi=82.8°, Rev Azi=263.6°

Direct line HAAT Grade B, 47 dBu= 115.78 km & Grade A= 63.63 km

Distance from reference to Grade B = 18.68 km

Cutoff Dist from Full Service= 193

Maximum Co-located power= 38 kW

WBRC Signal Contour at Reference location = 41.3 dBu

CH. 213, U/D ratio = 22.5 dB, Maximum FM signal = 69.5 dBu , add 6 dB if within angle.

TV/FM D to U values

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 47.0 | 69.5 | 55.0 | 68.7 | 63.0 | 70.2 | 71.0 | 74.9 | 79.0 | 81.2 | 87.0 | 87.9 |
| 48.0 | 69.3 | 56.0 | 68.8 | 64.0 | 70.7 | 72.0 | 75.6 | 80.0 | 82.0 | 88.0 | 88.7 |
| 49.0 | 69.0 | 57.0 | 68.8 | 65.0 | 71.1 | 73.0 | 76.4 | 81.0 | 82.8 | 89.0 | 89.6 |
| 50.0 | 68.8 | 58.0 | 68.9 | 66.0 | 71.7 | 74.0 | 77.2 | 82.0 | 83.7 | 90.0 | 90.5 |
| 51.0 | 68.8 | 59.0 | 69.0 | 67.0 | 72.2 | 75.0 | 78.0 | 83.0 | 84.5 | 91.0 | 90.5 |
| 52.0 | 68.7 | 60.0 | 69.3 | 68.0 | 72.8 | 76.0 | 78.8 | 84.0 | 85.3 | 92.0 | 90.5 |
| 53.0 | 68.7 | 61.0 | 69.5 | 69.0 | 73.5 | 77.0 | 79.6 | 85.0 | 86.2 | 93.0 | 90.5 |
| 54.0 | 68.7 | 62.0 | 69.8 | 70.0 | 74.2 | 78.0 | 80.4 | 86.0 | 87.0 | 94.0 | 90.5 |