

TV6 Calculation for Millersburg, OR

TV6 Call sign
KOIN

Fcc Search
57.6 dBu

City
Portland

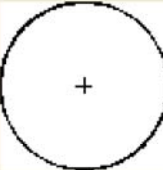
State
OR

COR AMSL (m)
581

HAAT(m)
490.5

Latitude
453058

Longitude
1224358



TV ERP (kW)
100.000

FM Horizontal ERP
1.0

☒ Outside City Of 50k

53

60

1

TV

FM

Plot Scale
1900

☒ DLG ☐ AJPI

☒ Hide Zeros

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

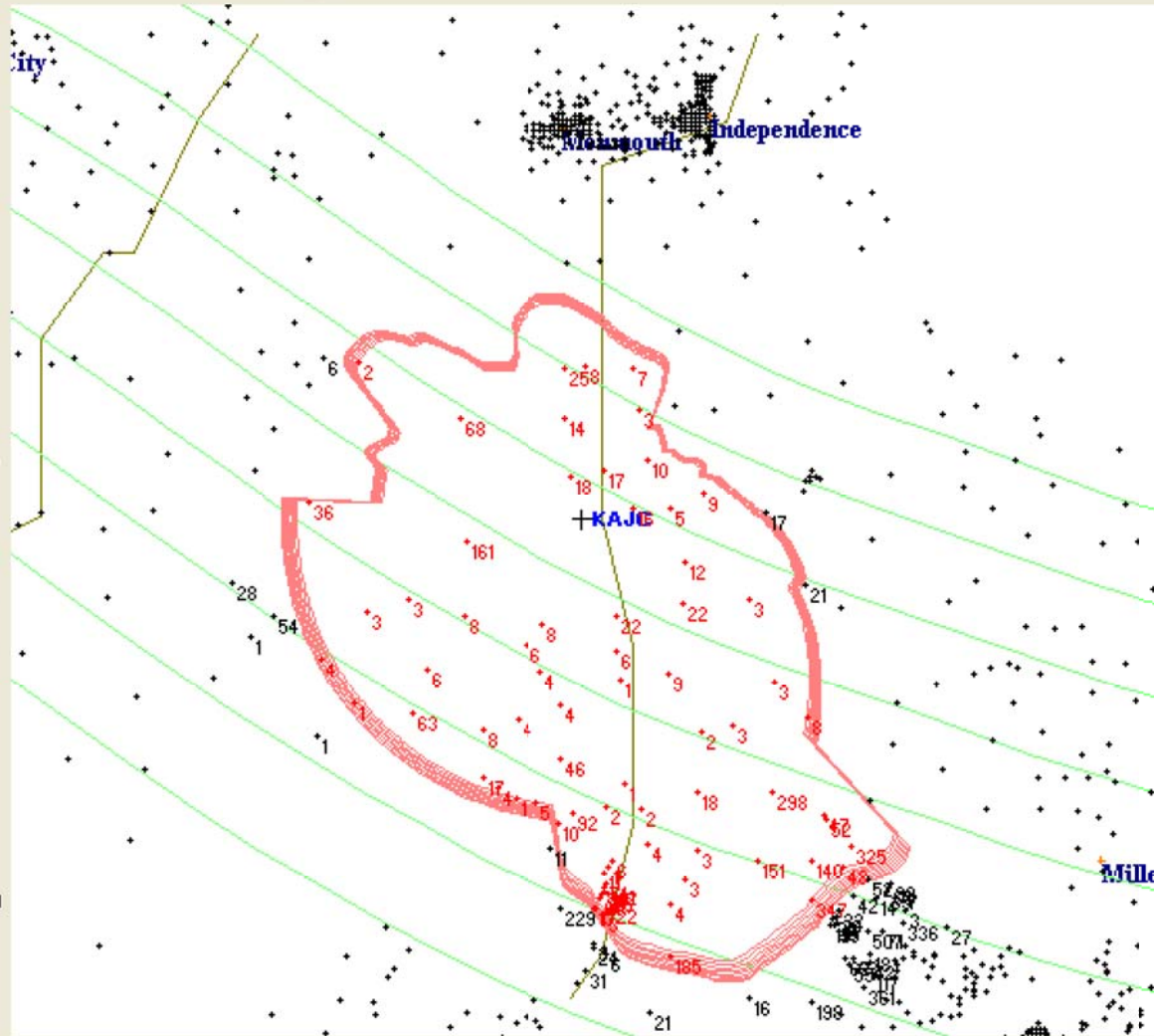
Comp

Cov F

Cov I

PrintText

Print Form



Channel Six IV Protection Study

KOIN	06	100.000kW ERP	581.0M COR AMSL	490.5M HAAT	Lat. 453058	Lon. 1224358
KAJC	211	15.440kW ERP	150.0M COR AMSL	38.7M HAAT	Lat. 444533	Lon. 1231334

Distance from TV to FM 92.6410km Azi 24.8degr Rev Azi 204.8 degr
Cutoff radius for channel 211 is 196 km

The FM horizontal polarization component is 1.000 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pv/40+Ph) 1.3860kW

The TV6 signal strength at the FM transmit site is 57.6 dBu
This strength is outside the 68 dBu Grade A contour,
allowing a 6 dB bonus to be applied to the allowable FM signal
to F centroids (centroids in the angles between the FM station and the TV station)

TV Contour	Undesired/Desired Ratio	Total	Directional Total
53	13.2	66.2	72.2
54	12.2	66.2	72.2
55	11.3	66.3	72.3
56	10.5	66.5	72.5
57	9.6	66.6	72.6
58	8.7	66.7	72.7
59	7.8	66.8	72.8
60	7.0	67.0	73.0

Population in affected area 2974