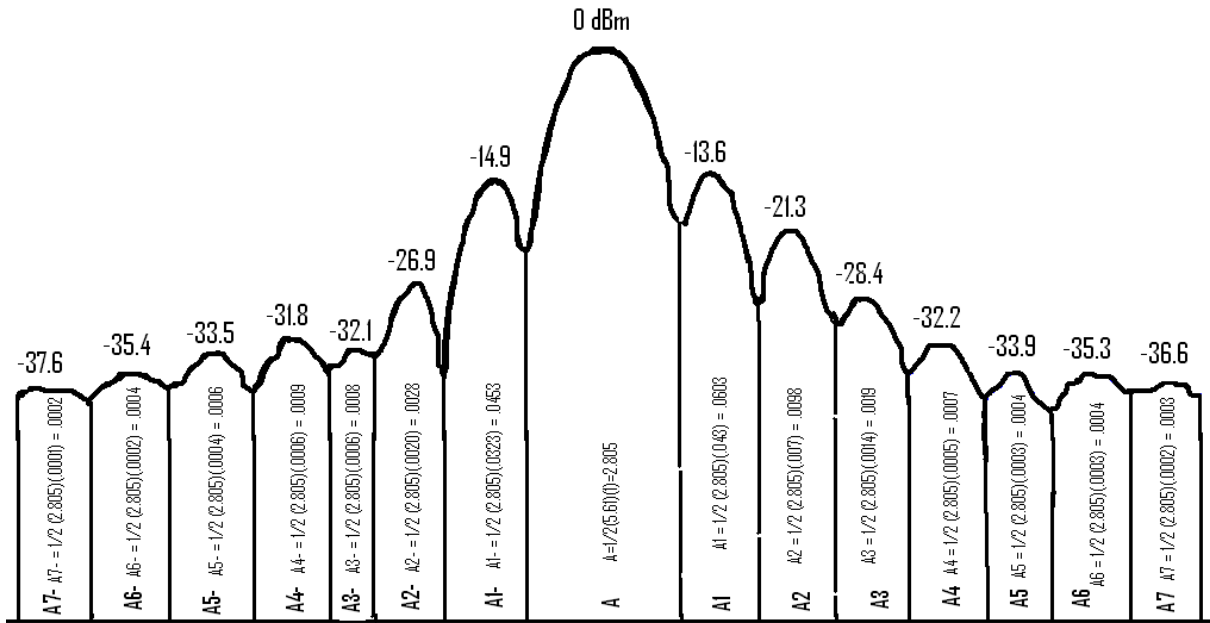


7.0 Occupied Spectrum

The worst case occupied spectrum occurs with the 0.8μs pulse width selection as depicted in Figure 6, plot #2.



KHDD-1000C OCCUPIED BANDWIDTH, Worst Case

IAW CFR 2.989,
Occupied Bandwidth for KHDD-1000C
Meteorological Radar

Lobe Area = $\frac{1}{2}$ Lobe Width $\left[\frac{1}{\log^{-1} \frac{db}{10}} \right]$

Pulse Width = .8μs
PRF = 1000Hz
Frequency = 5610MHz

A6- through A6 = 2.9298
Mean Radiated Power = 2.900
A2- to A3 = 2.9251

Major Lobe Width = 5610MHz
Minor Lobe Width = 2.805MHz

Occupied Bandwidth = 8.415MHz
Emission Designator = 8M5P0N