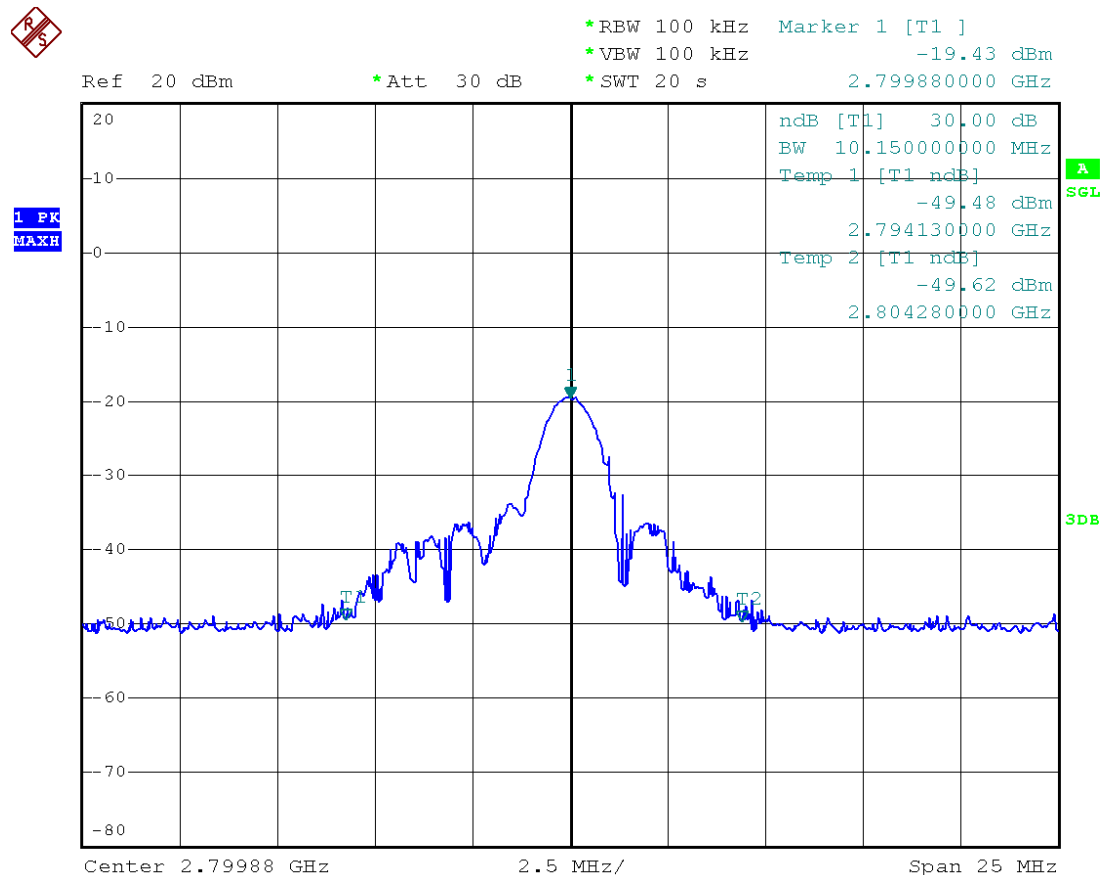


VHDD-550S OCCUPIED SPECTRUM TEST

7.0 Occupied Spectrum

The worst case occupied spectrum occurs with the 0.8μs pulse width selection as depicted in Figure 6, plot #1.



VHDD-550S OCCUPIED BANDWIDTH, Worst Case

IAW CFR 2.989,
 Occupied Bandwidth for VHDD-550S
 Meteorological Radar

Lobe Area = 1/2 Lobe Width

$$\left[\frac{1}{\log^{-1} \frac{db}{10}} \right]$$

Pulse Width = .8μs
 PRF = 250Hz
 Frequency = 2800MHz

Major Lobe Width = 2.2MHz
 Minor Lobe Width = 1.1MHz

Occupied Bandwidth = 10.15MHz
 Emission Designator = 10M1P0N