

Worcester Polytechnic Institute

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Necessary Bandwidth Description

As is described in the response to Question 7, the RF signal to be employed here (a set of unmodulated sinusoids) spans a broad frequency range, but actually occupies only a small percentage of that total bandwidth. An important part of the experimental work is the determination of system performance vs. frequency span and other parameters such as SNR. In this application “bandwidth” is used in the common sense of frequency range spanned by our set of signals, and wide bandwidths are requested. At the power levels requested for this experimental work, interference with other services, including those services on the same frequencies as our sinusoids, should not exist, and will be monitored.