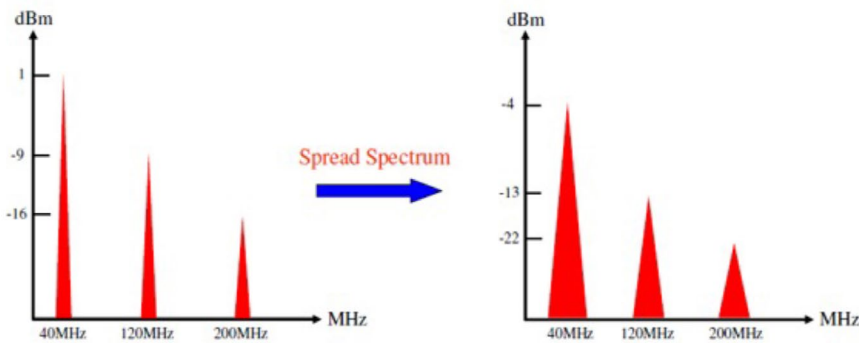


# Spread Spectrum Modes

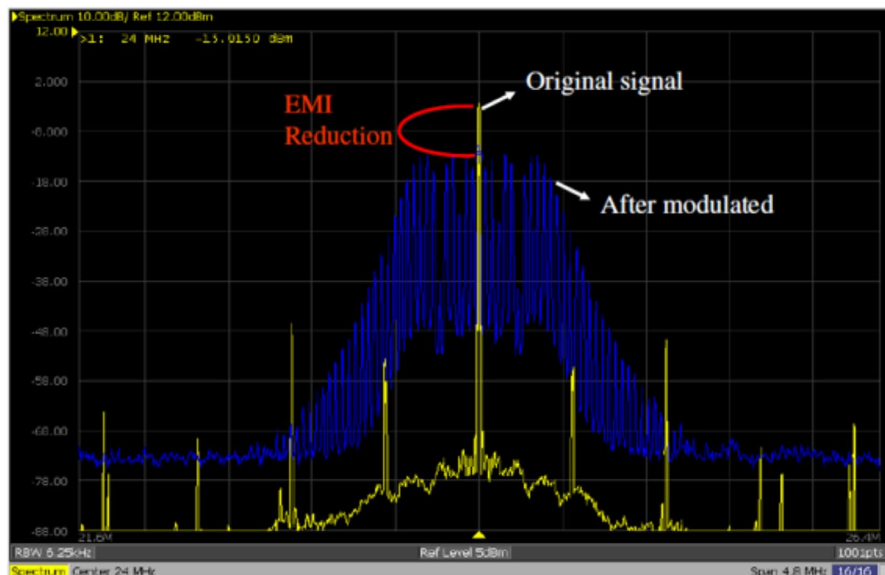
To ensure optimal EMI suppression and the correct product for your application, we offer a variety of spread spectrum modes as shown below.

[Read more about Low EMI Oscillator Technology](#)

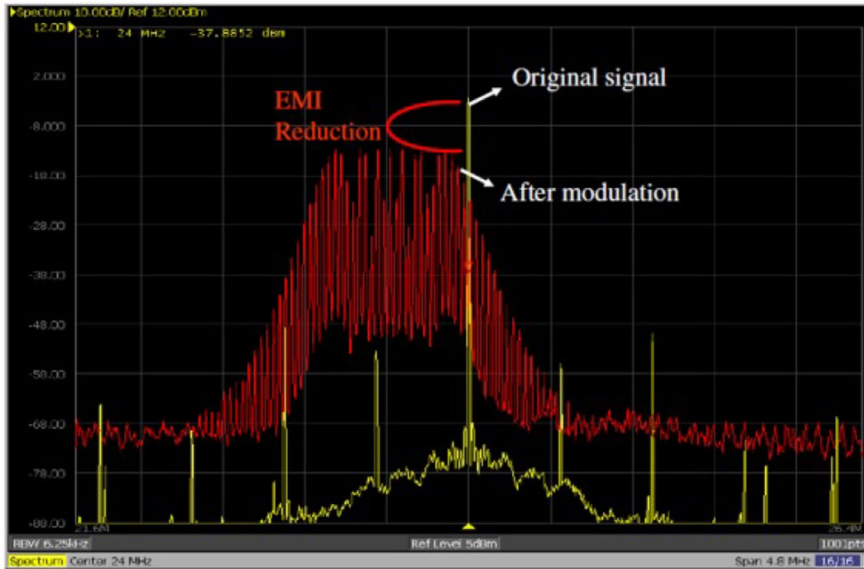
## Spread Spectrum Techniques



## Center Spread +/-2%

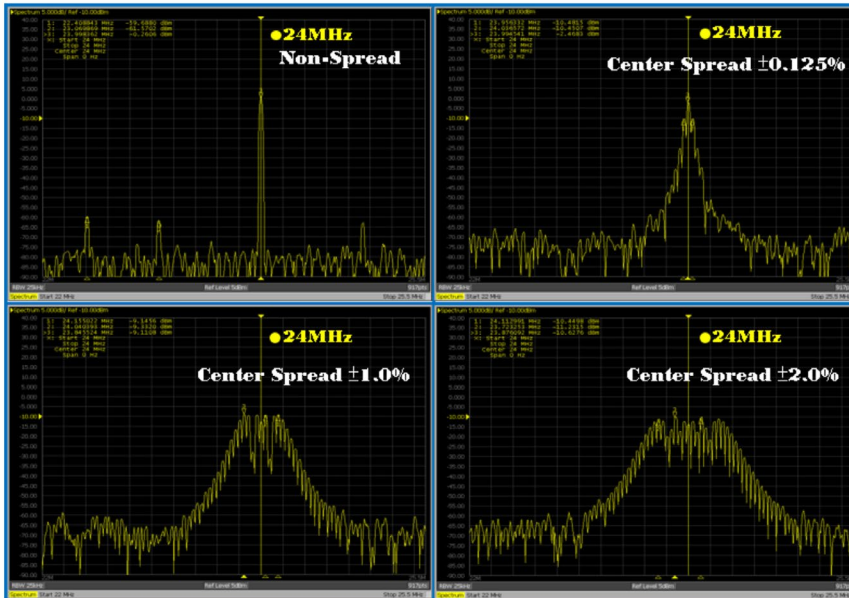


## Down Spread -4%

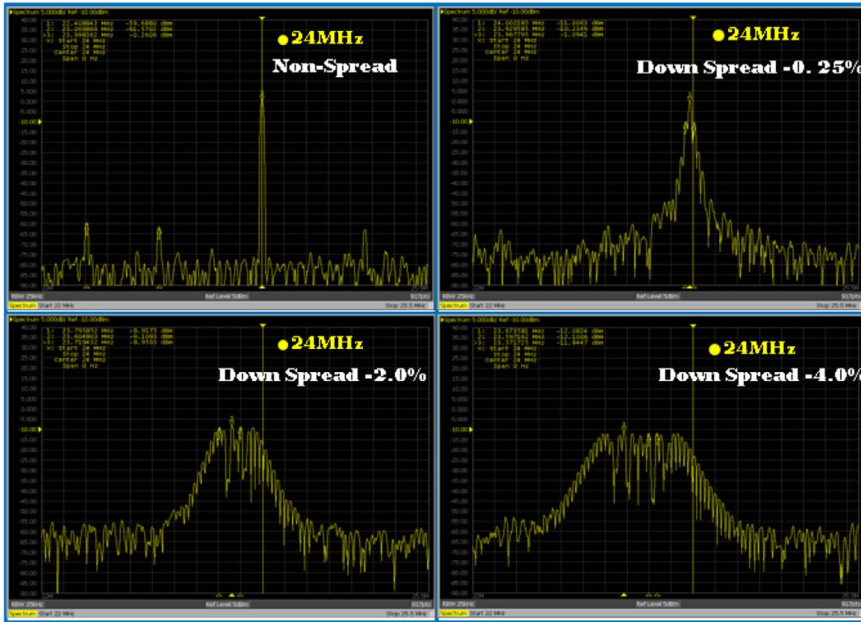


## THE COMPARISON OF DIFFERENT SPREAD MAGNITUDES

### Center Spread – 24 MHz Oscillator

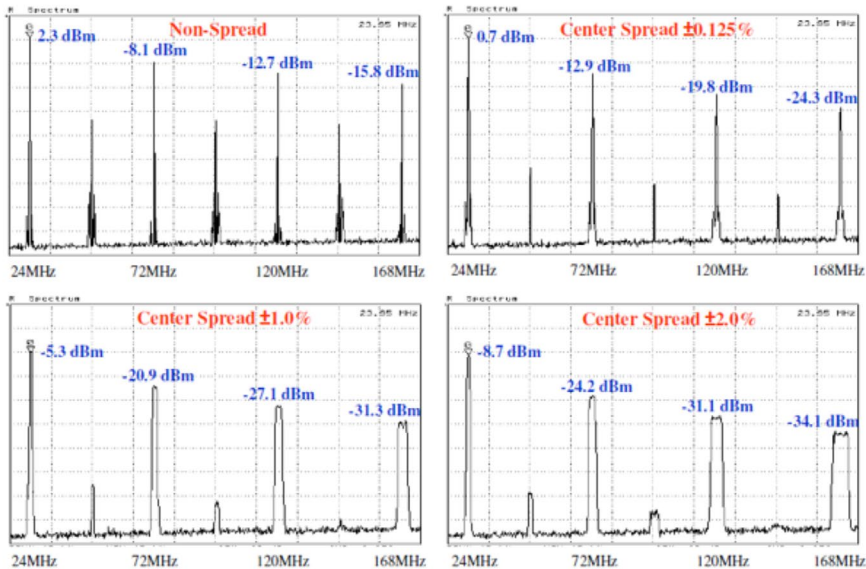


## Down Spread – 24 MHz Oscillator

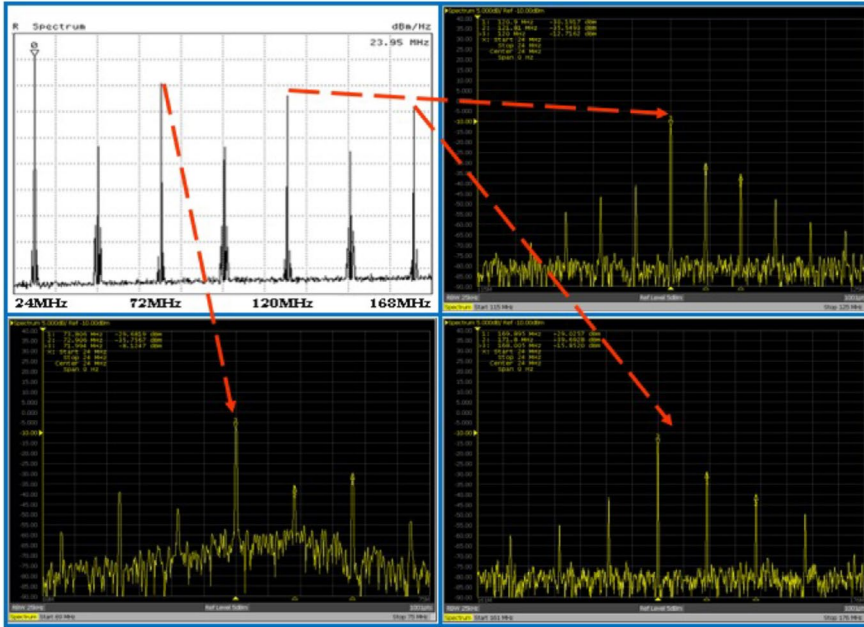


## EMI REDUCTION

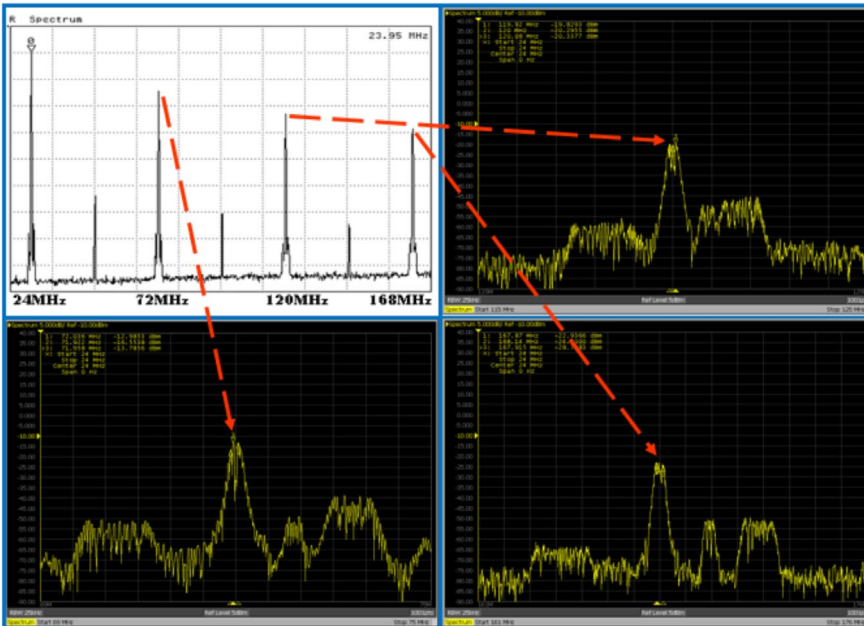
### Harmonics Comparison



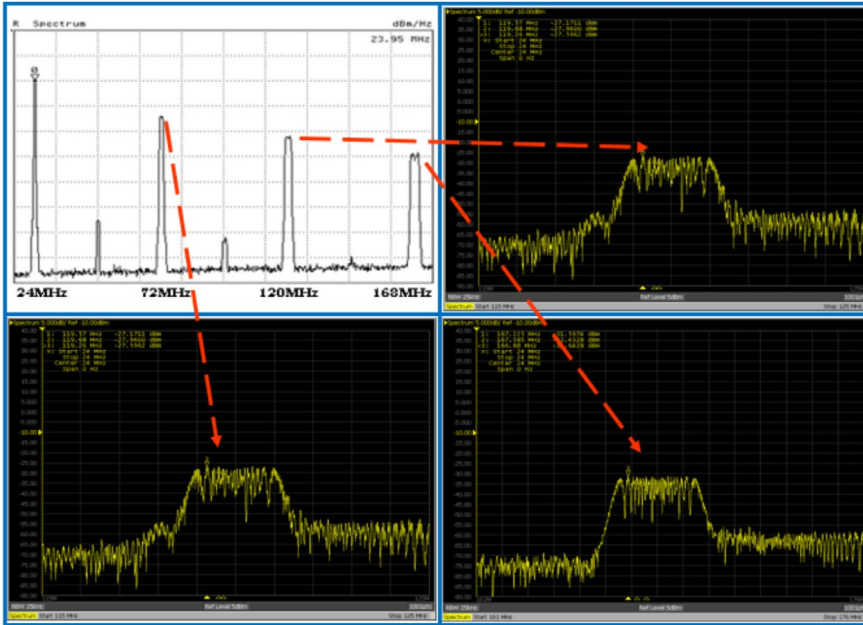
## Harmonics Comparison: Non-Spread – 24 MHz Oscillator



## Harmonics Comparison: Center Spread $\pm 0.25\%$ – 24 MHz Oscillator



## Harmonics Comparison: Center Spread $\pm 1.0\%$ – 24 MHz Oscillator



## Harmonics Comparison: Center Spread $\pm 2.0\%$ – 24 MHz Oscillator

