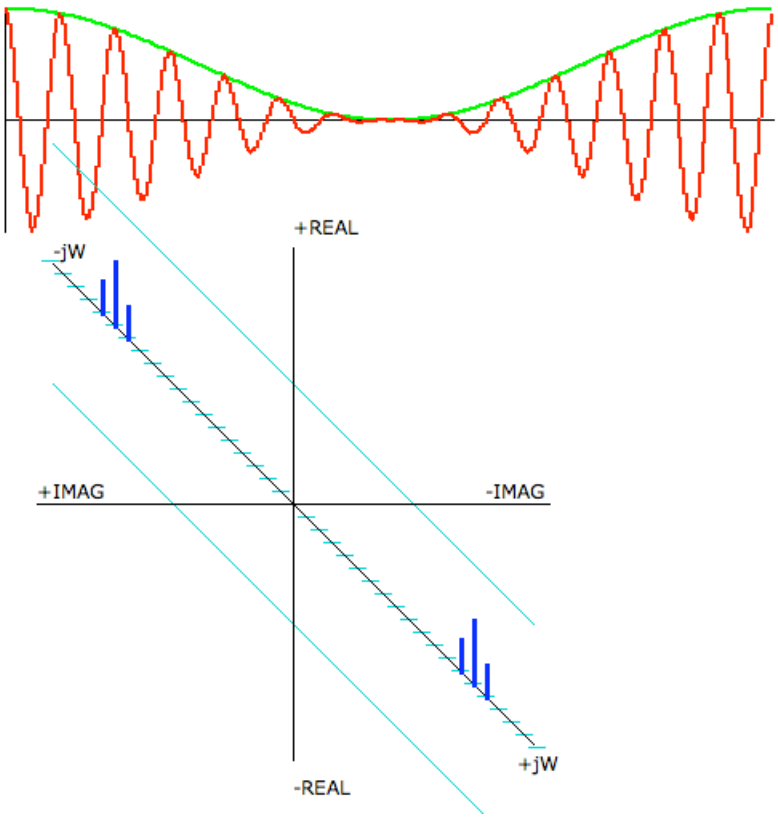
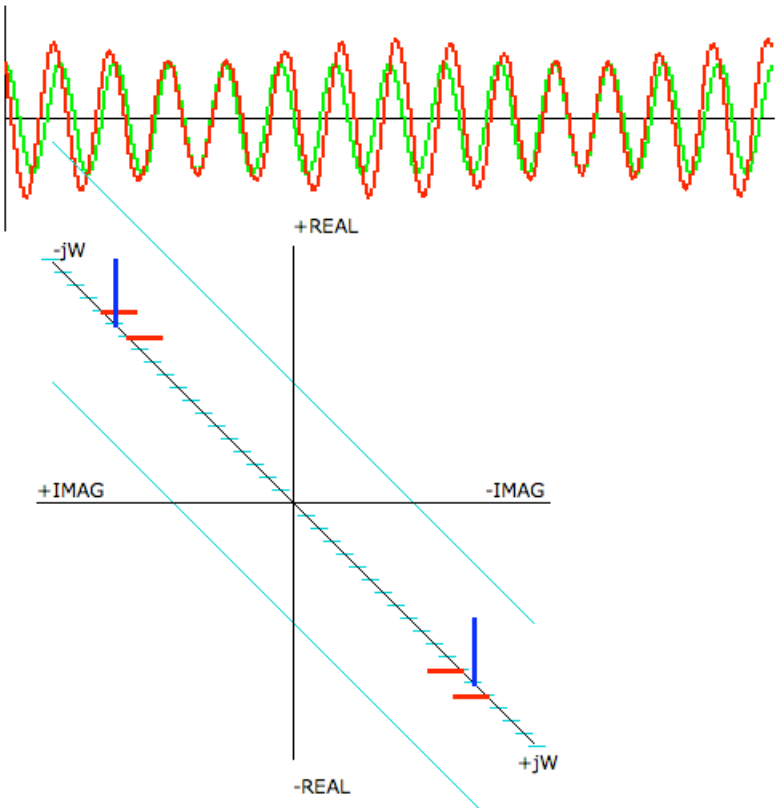
*==========Formating_to_Pure_AM_And_Pure_PM==========

Being able to easily separate a spectrum into two sets of sides bands may be useful. Even when viewing side bands in 3D, it is not real easy to see what each one is doing.

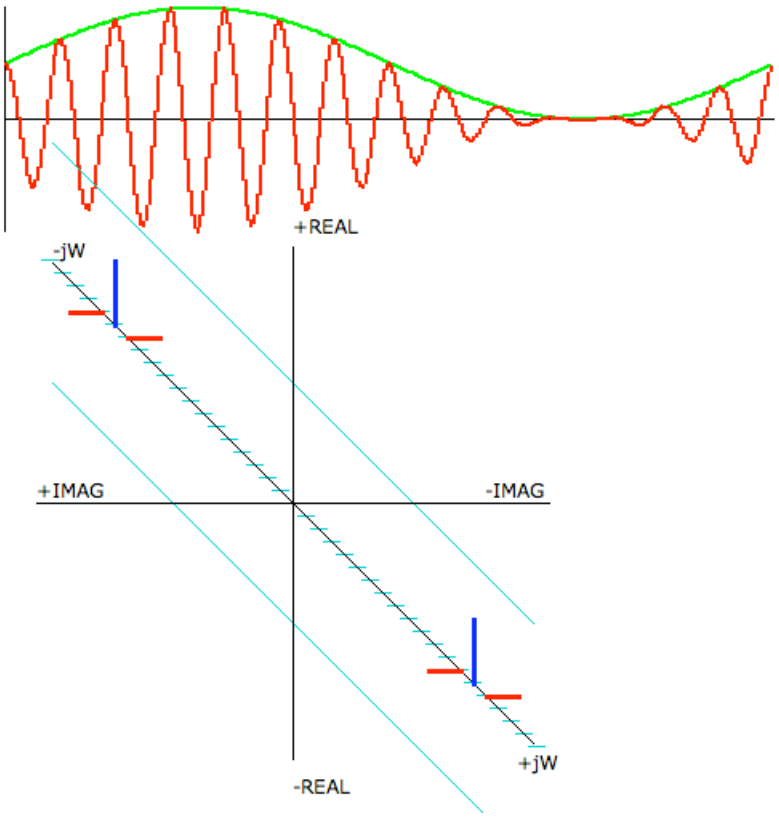
There is an inclination to view real sidebands on a spectrum as producing Amplitude Modulation.



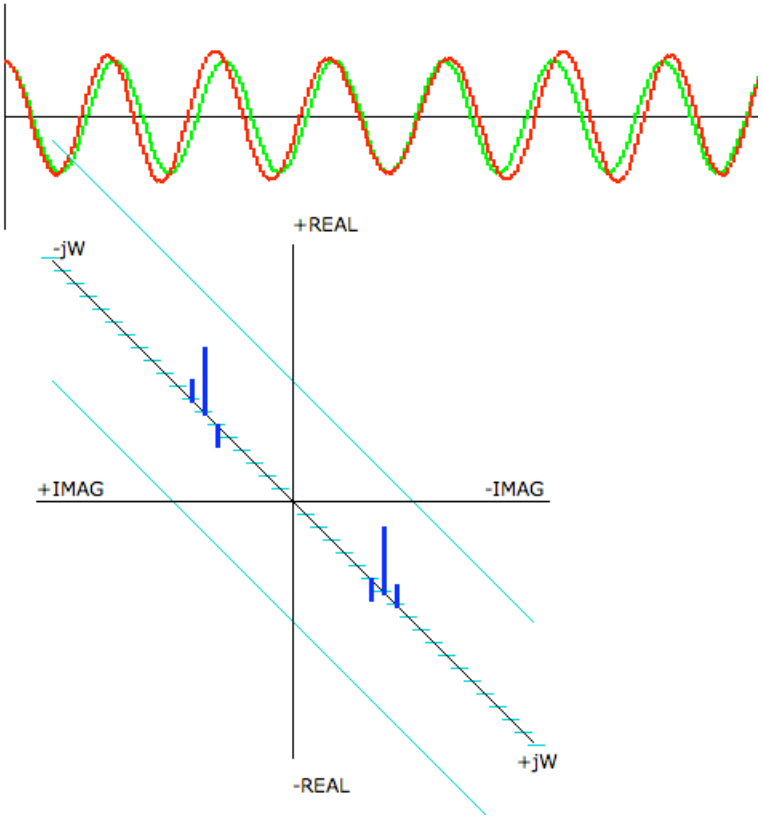
The sidebands that produce Phase Modulation are often found to be imaginary on a spectrum.



But that is not always the case. The following imaginary sidebands produce Amplitude Modulation.



The following real sidebands happen to produce Phase Modulation.



Even when viewing the spectrum in 3D, it takes a little effort to tell what each side band is doing. But it should be very easy to split a spectrum output into a pure AM spectrum and a pure PM spectrum.

Some companies claim to be providing this feature. This is all that needs to be done to do that.

AM_spectrum = symmetrical real_sidebands + asymmetrical imaginary_sidebands
PM_spectrum = asymmetrical real_sidebands + symmetrical imaginary_sidebands

Lacking this type of hardware, simply printing the output values of a spectrum and color coding the sidebands can do the job for now.

2.12.10_2.20PM
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