



Advanced Sampling Frequency Convertors

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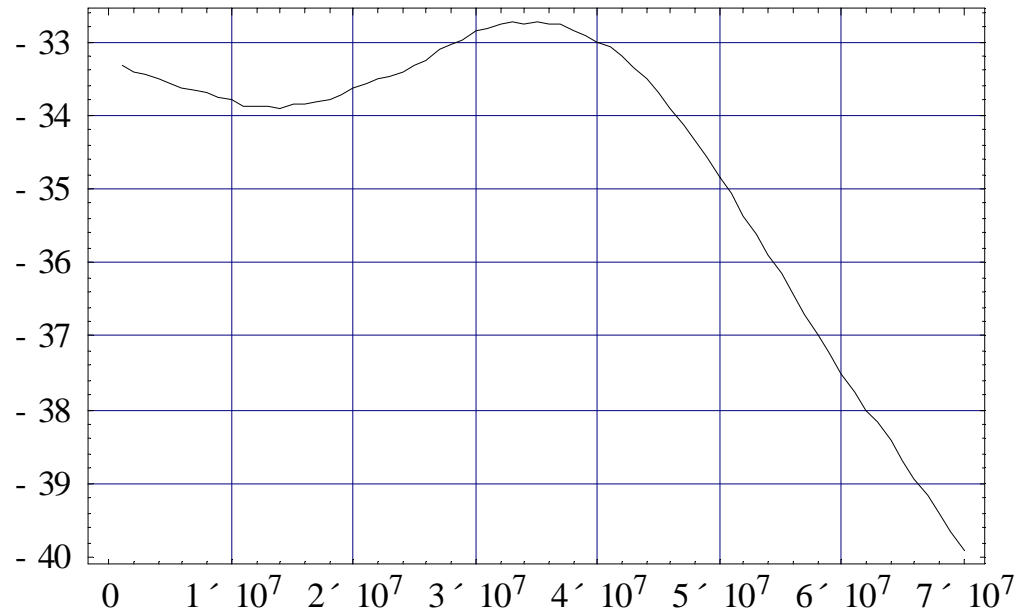
"Jan Verspecht bvba"

URL: <http://www.janverspecht.com>



IF characteristic with 200MHz sampling rate (low impedance termination)

Conversion (dB)



Frequency (Hz)

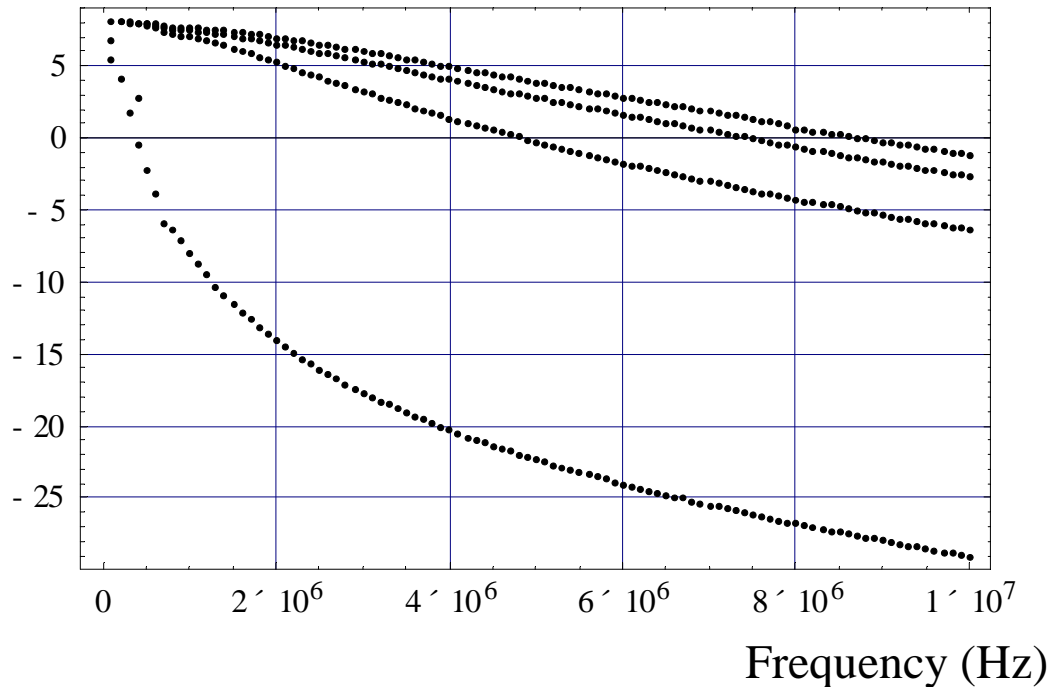


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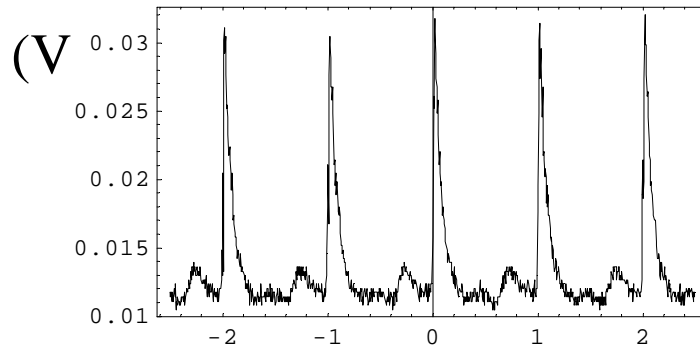
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IF characteristic for different LO: 300, 600, 900, 1200 MHz (high impedance termination)

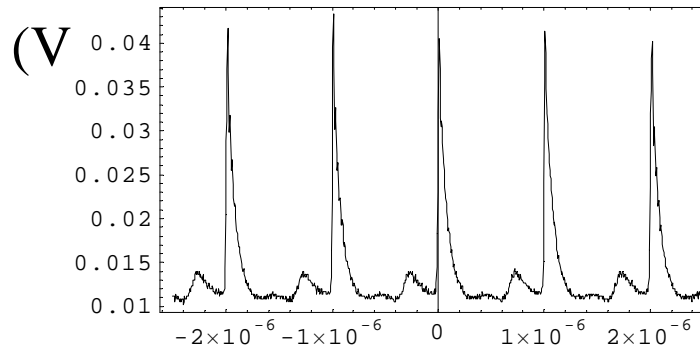
Conversion (dB)



Demonstration of DC coupled IF



1 Hz IF

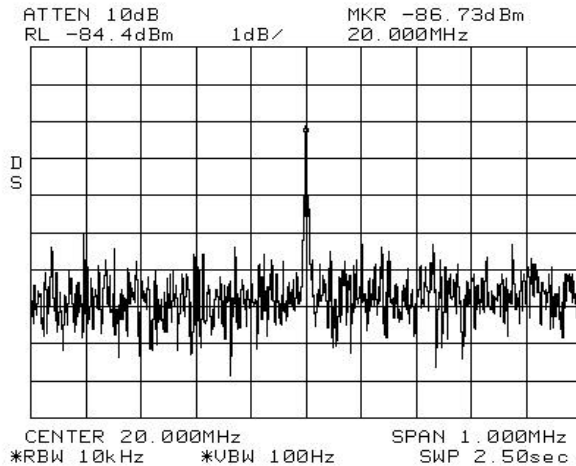


1 MHz IF

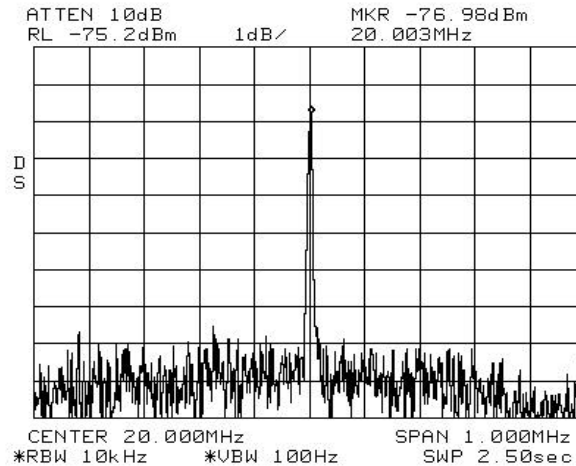


Sensitivity (low impedance termination)

RF 1.02 GHz
LO 200 MHz



Input power: -86 dBm



Input power: -96 dBm

8510 has approximately 13 dB better sensitivity

