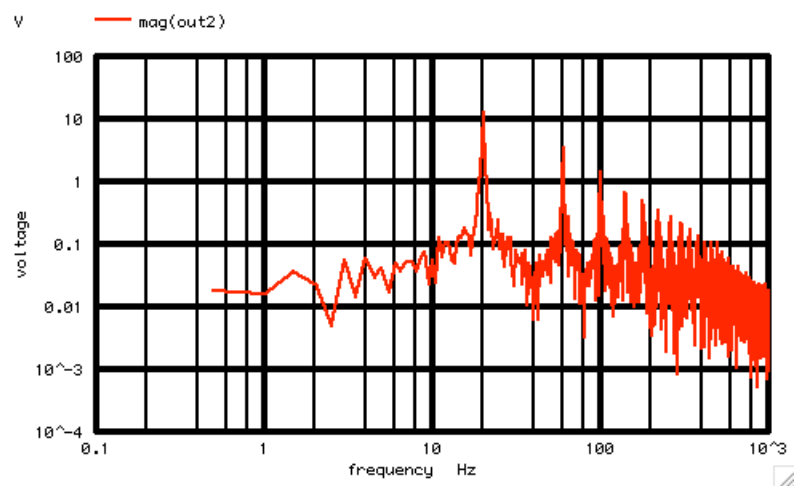


Below is the spectrum of the free running oscillator which generated the jitter PWL file.



Two very different paths were taken to get to the same spectrum. So things are very close, but not identical.

For a more detailed view of the random noise sidebands, it is possible to estimate where these noise sidebands come from.

```

=====Full_Netlist_For_Copy_Paste=====
Use_Jitter_to_PM
*   OUT      Rload
*
*
*
*   /vpwlT\
*
*
*   777
*   Gnd
*
*
*   777
*   Gnd
*
* VpwlT OUT 0      PWL( + 0.0005 0.988835 +.....
*=====Include Noise File=====
.include PWL_FileJitter.inc
Rload   OUT      0      1k
VT      Vtime    0      PWL      ( 0 0 2 2 ) DC 0
B1      OUT1     0      V =      cos(2*3.14159*20*v(Vtime)+ v(OUT))
B2      OUT2     0      V =      20*u(v(OUT1))-10
*=====Run Simulation=====

```

```
*TRAN      TSTEP  TSTOP  TSTART TMAX      ?UIC?
.tran      5u     2      0      5u        UIC
.control
run
set        pensize =      2
plot      out1 out
*====Find_Spectrum=====
linearize
set        specwindow =    "none"
*SPEC      FSTART  FSTOP   FSTEP   VECTOR
spec      .5      1000   .5      v(OUT2)
plot      mag(v(OUT2))    loglog
*====Wrap_Up=====
.endc
.end
```

2.18.10_12.15PM
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