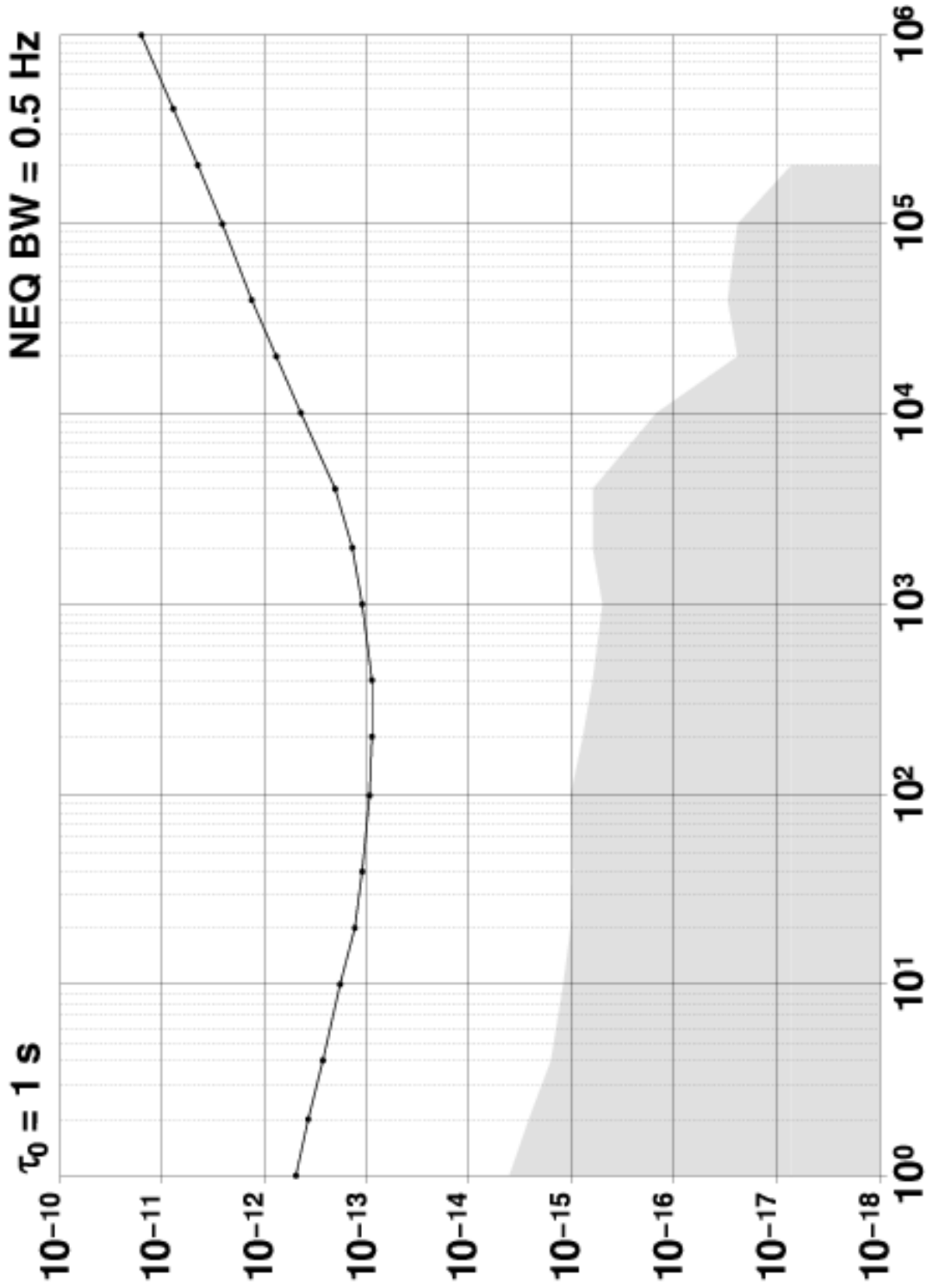


# Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 10 dBm

Reference 5.0 MHz 7 dBm

# Allan Deviation $\sigma_y(\tau)$

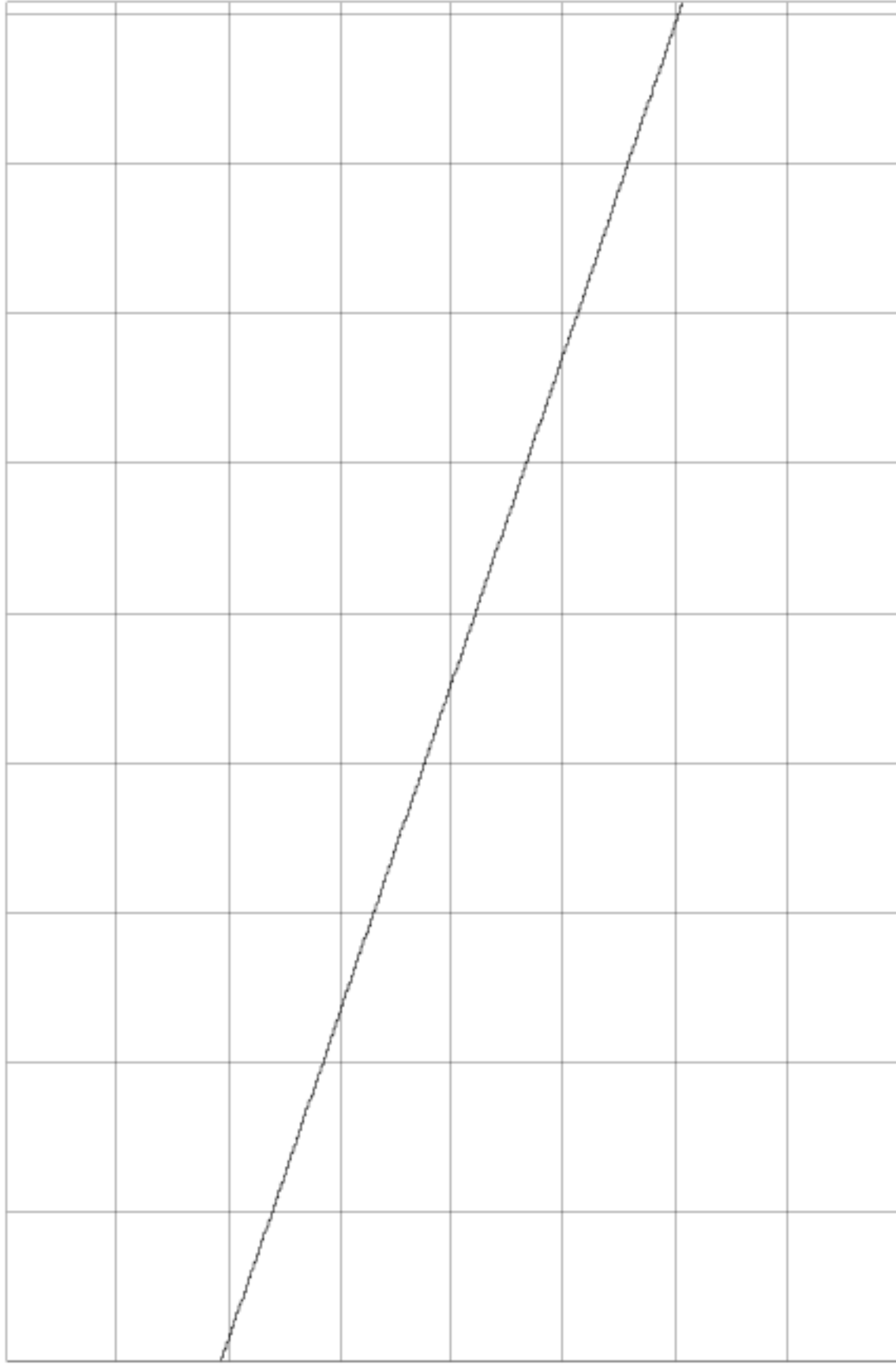
Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	$4.8676 \times 10^{-13}$	$4.11673 \times 10^{-15}$
2	$3.6900 \times 10^{-13}$	$2.65169 \times 10^{-15}$
4	$2.6149 \times 10^{-13}$	$1.60215 \times 10^{-15}$
10	$1.7500 \times 10^{-13}$	$1.20313 \times 10^{-15}$
20	$1.3224 \times 10^{-13}$	$1.01055 \times 10^{-15}$
40	$1.0740 \times 10^{-13}$	$9.87480 \times 10^{-16}$
100	$9.153 \times 10^{-14}$	$9.99276 \times 10^{-16}$
200	$8.72 \times 10^{-14}$	$7.89013 \times 10^{-16}$
400	$8.98 \times 10^{-14}$	$6.31839 \times 10^{-16}$
1000	$1.064 \times 10^{-13}$	$5.05798 \times 10^{-16}$
2000	$1.348 \times 10^{-13}$	$6.39510 \times 10^{-16}$
4000	$2.03 \times 10^{-13}$	$6.18635 \times 10^{-16}$
10000	$4.23 \times 10^{-13}$	$1.51613 \times 10^{-16}$
20000	$7.5 \times 10^{-13}$	$2.43581 \times 10^{-17}$
40000	$1.30 \times 10^{-12}$	$3.07877 \times 10^{-17}$
100000	$2.52 \times 10^{-12}$	$2.47866 \times 10^{-17}$
200000	$4.3 \times 10^{-12}$	$7.09658 \times 10^{-18}$
400000	$7.6 \times 10^{-12}$	
1000000	$1.6 \times 10^{-11}$	
2000000	$1.4 \times 10^{-11}$	

$\tau_0 = 1 \text{ s}$     NEQ BW = 0.5 Hz

# Phase Difference

$2.0 \times 10^{-09}$  s/div

Center:  $2.8953339 \times 10^{-05}$  s



60s/div

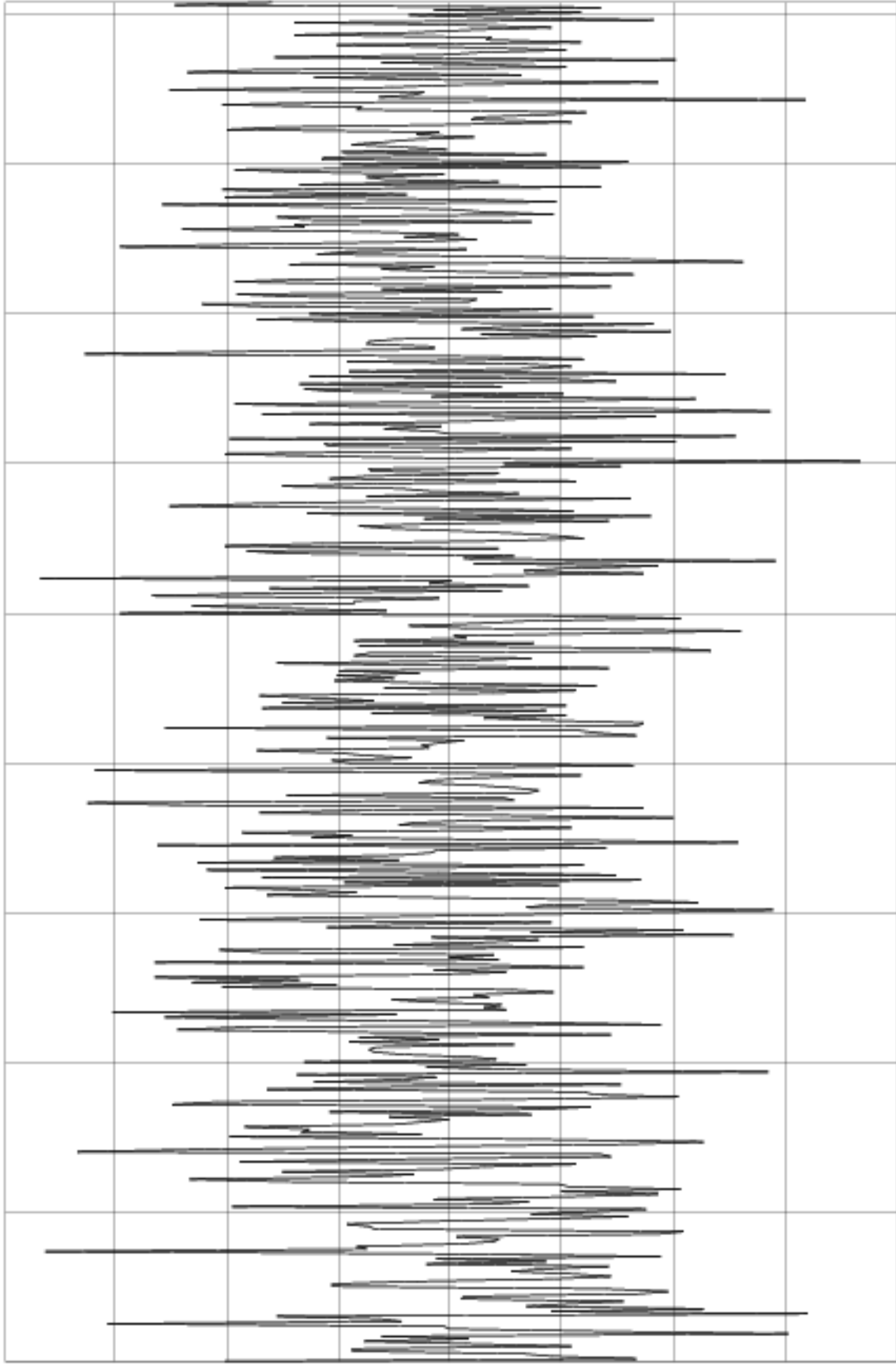
Input 5.0 MHz 10 dBm

Reference 5.0 MHz 7 dBm

# Frequency Difference

$4.0 \times 10^{-13}$  /div

Center:  $-1.5177 \times 10^{-11}$



60s/div

Input 5.0 MHz 10 dBm

Reference 5.0 MHz 7 dBm

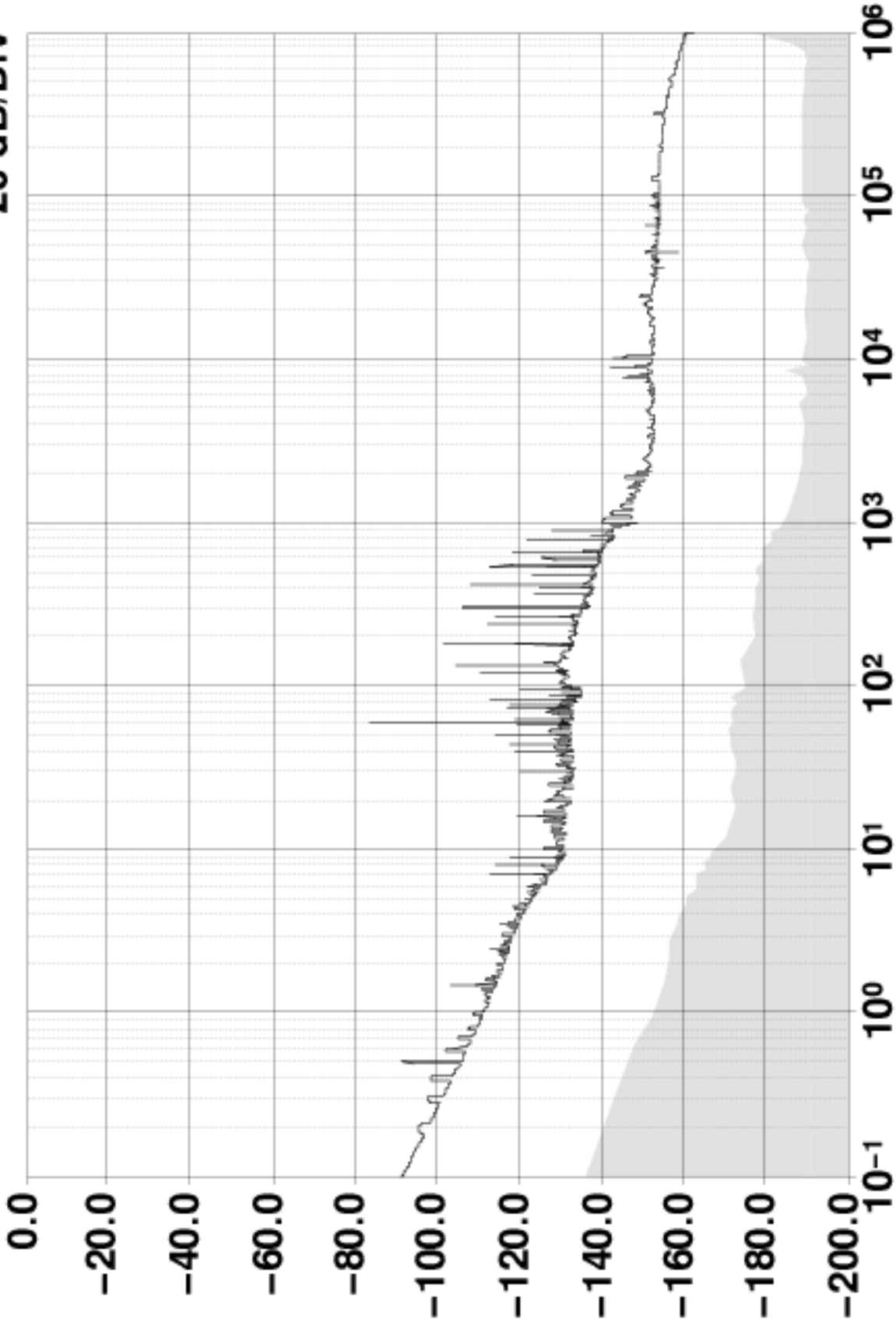
# Frequency Counter

<u>Sample Time (s)</u>	<u>Frequency (MHz)</u>
1	4.9999999975574
10	4.9999999975571
100	4.99999999755770
1000	4.99999999755856

Reference Frequency: 5.0 MHz (auto)

# $\mathcal{L}(f)$ Phase Noise at 5.0 MHz (dBc/Hz)

20 dB/Div



Offset Frequency (Hz)

Time Constant:  $\infty$

Input 5.0 MHz 10 dBm

Reference 5.0 MHz 7 dBm