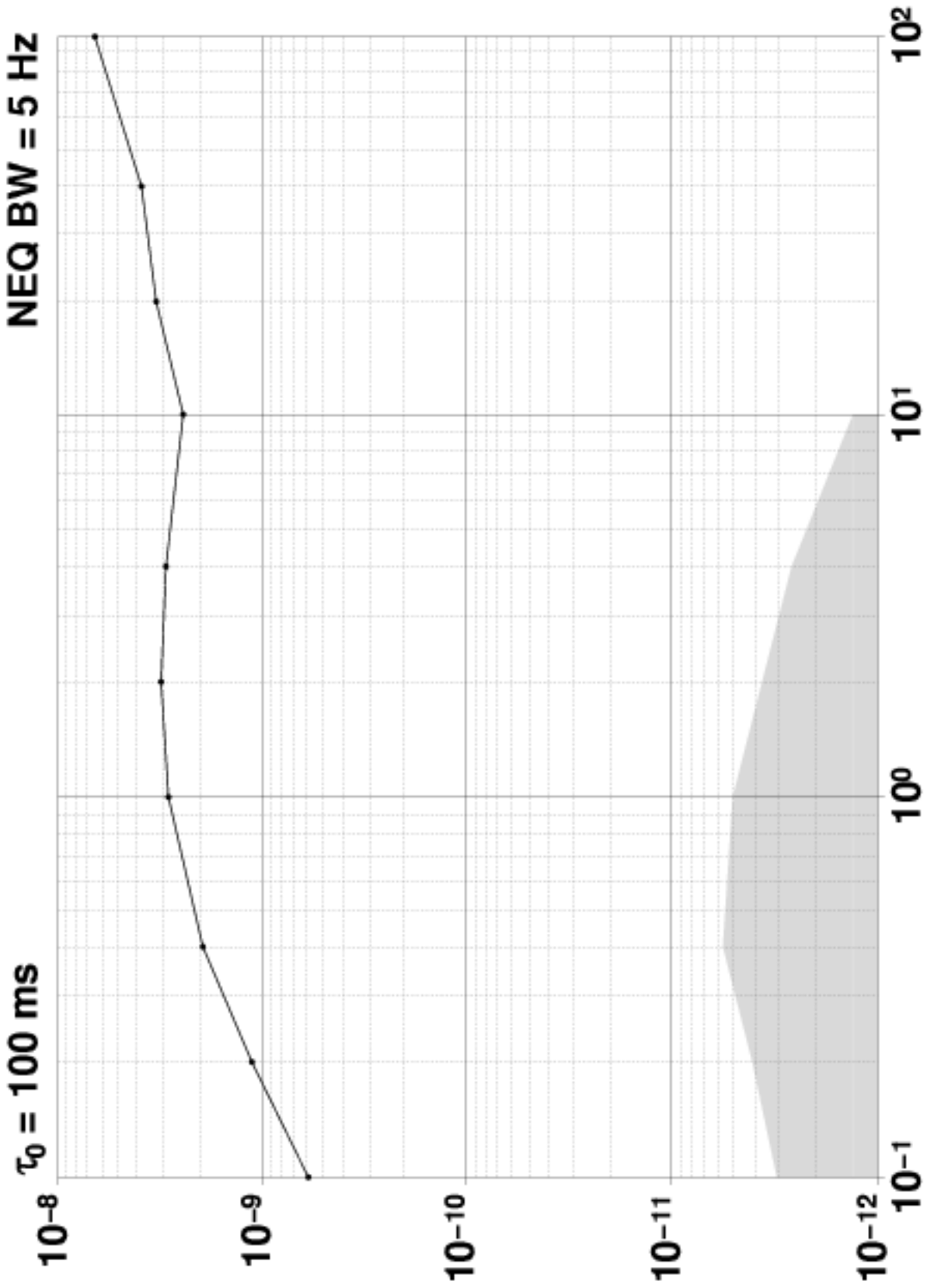


Allan Deviation $\sigma_y(\tau)$



Averaging Time τ , seconds

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

Allan Deviation $\sigma_y(\tau)$

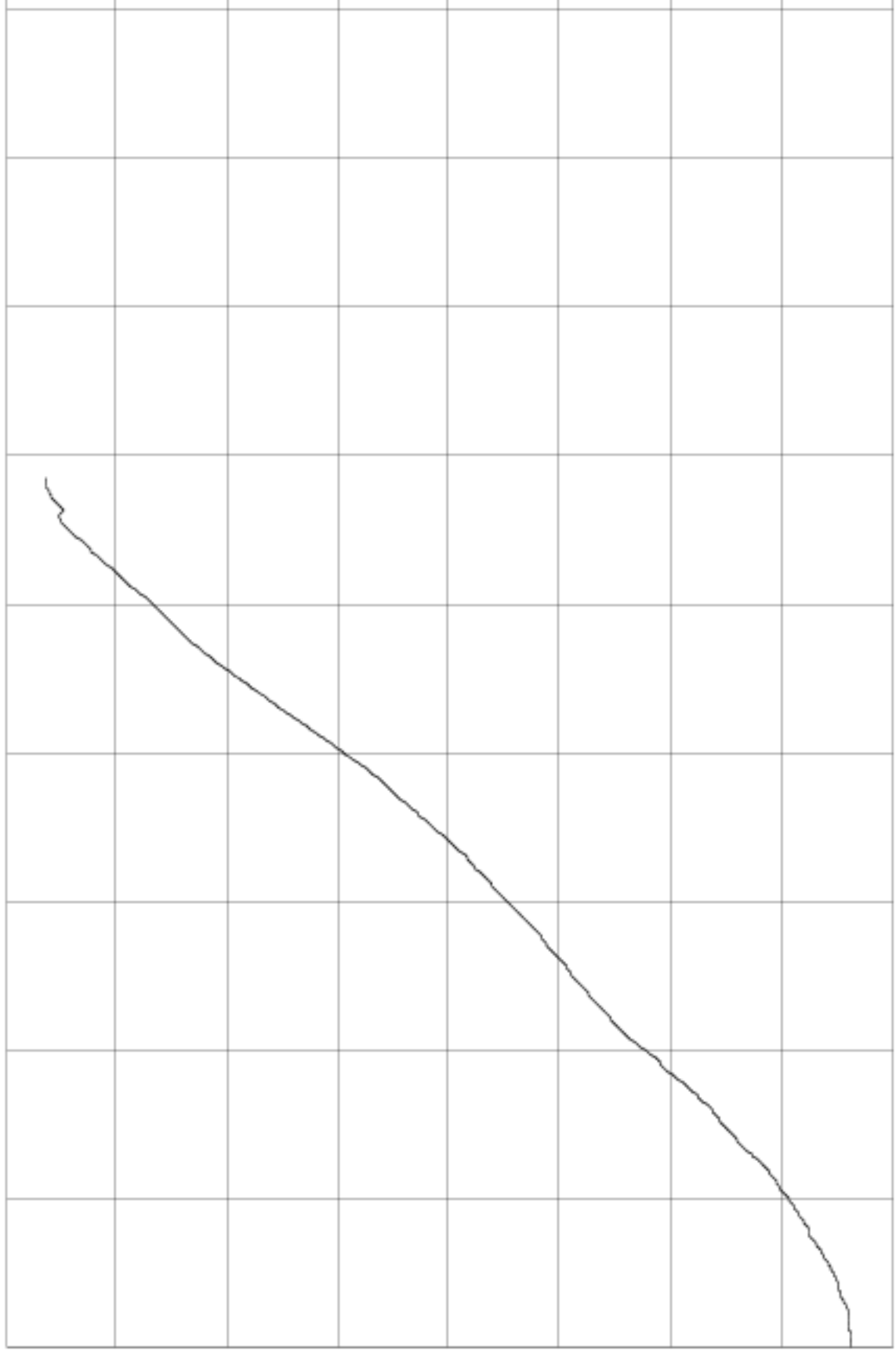
Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
0.1	5.90×10^{-10}	3.04531×10^{-12}
0.2	1.107×10^{-9}	4.09219×10^{-12}
0.4	1.90×10^{-9}	5.71900×10^{-12}
1	2.85×10^{-9}	5.05467×10^{-12}
2	3.10×10^{-9}	3.66829×10^{-12}
4	2.86×10^{-9}	2.58747×10^{-12}
10	2.39×10^{-9}	1.30367×10^{-12}
20	3.2×10^{-9}	
40	3.9×10^{-9}	
100	6.4×10^{-9}	

$\tau_0 = 100$ ms NEQ BW = 5 Hz

Phase Difference

8.0x10⁻⁰⁷ s/div

Center: 2.561x10⁻⁰⁶ s



60s/div

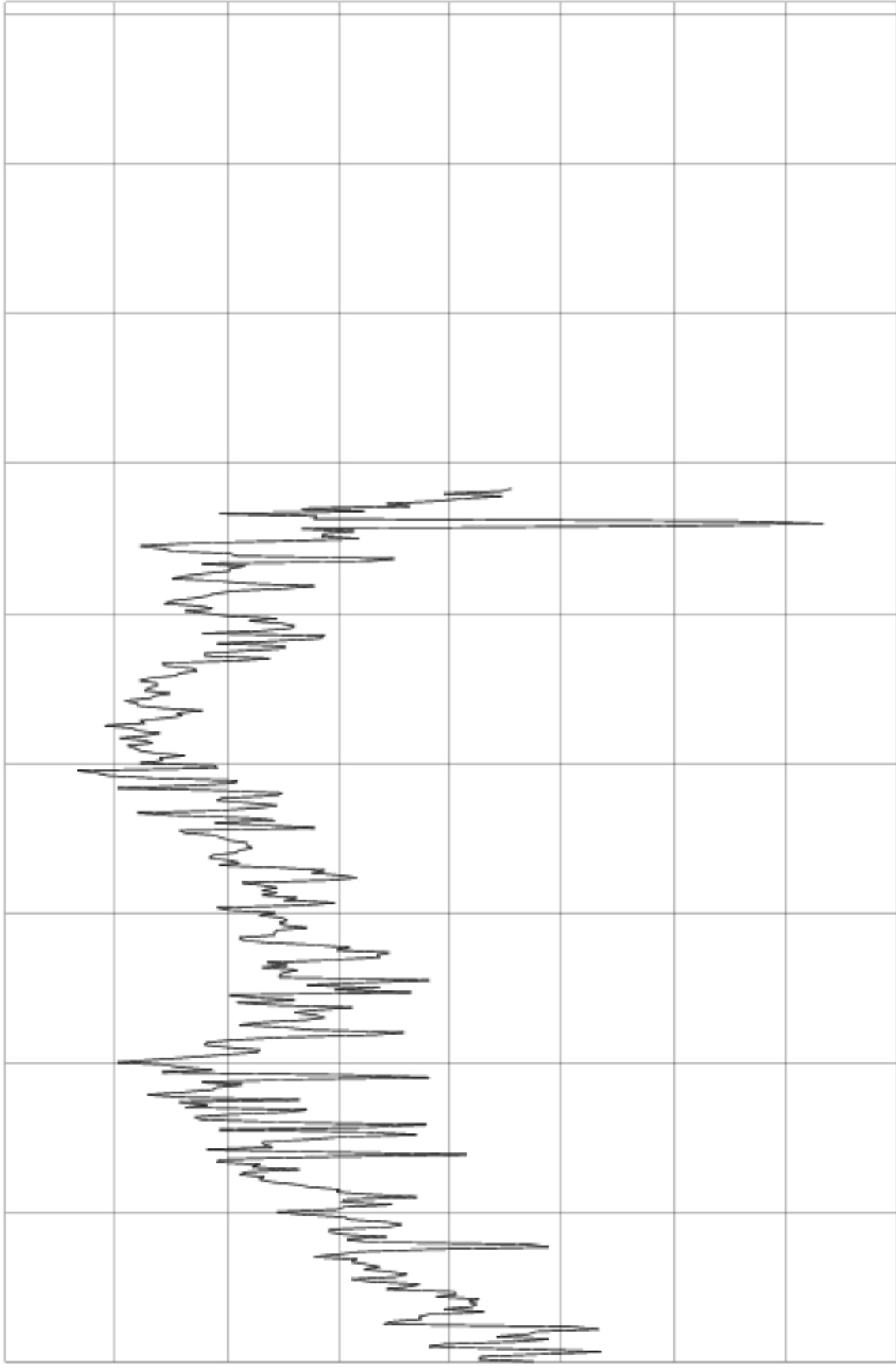
Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

Frequency Difference

7.0x10⁻⁰⁹ /div

Center: 6.415x10⁻⁰⁹



60s/div

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

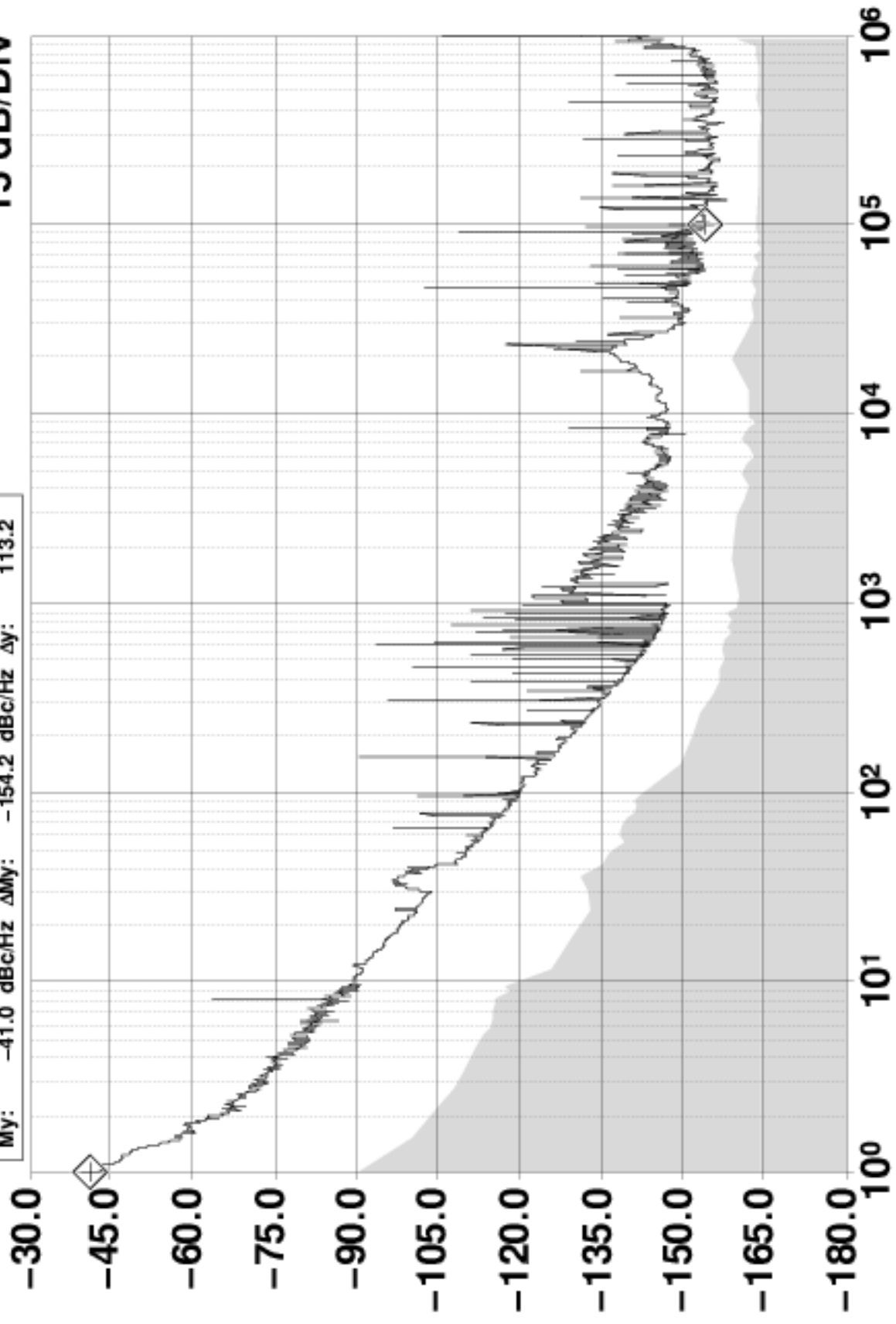
<u>Sample Time (s)</u>	<u>Frequency (MHz)</u>
1	14.0998706167661
10	14.09987071360220
100	14.099870515031523

Reference Frequency: 5.0 MHz (auto)

$\mathcal{L}(f)$ Phase Noise at 14.1 MHz (dBc/Hz)

Mx: 1.000977 Hz Δ Mx: 99975.59 Hz Δ x: -99974.6
My: -41.0 dBc/Hz Δ My: -154.2 dBc/Hz Δ y: 113.2

15 dB/Div



Offset Frequency (Hz)

Time Constant: ∞

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm