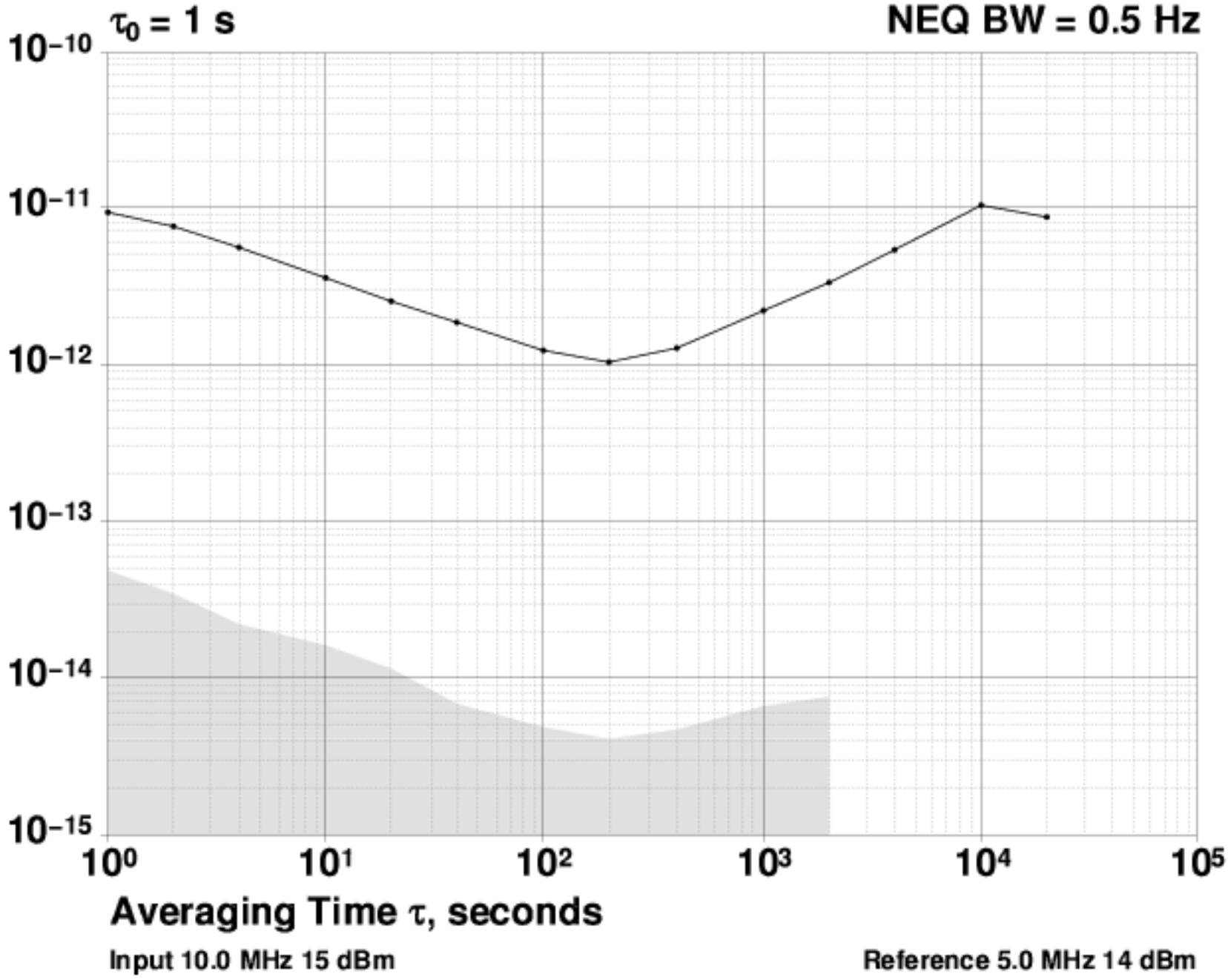
08/02/2012 17:27:48
15h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 15 dBm

Reference 5.0 MHz 14 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	9.361×10^{-12}	4.87213×10^{-14}
2	7.619×10^{-12}	3.49934×10^{-14}
4	5.542×10^{-12}	2.19903×10^{-14}
10	3.568×10^{-12}	1.61679×10^{-14}
20	2.546×10^{-12}	1.13228×10^{-14}
40	1.87×10^{-12}	6.89165×10^{-15}
100	1.23×10^{-12}	4.87329×10^{-15}
200	1.05×10^{-12}	4.02320×10^{-15}
400	1.28×10^{-12}	4.63755×10^{-15}
1000	2.23×10^{-12}	6.68604×10^{-15}
2000	3.3×10^{-12}	7.71786×10^{-15}
4000	5.4×10^{-12}	
10000	1.04×10^{-11}	
20000	8.7×10^{-12}	

$\tau_0 = 1$ s NEQ BW = 0.5 Hz

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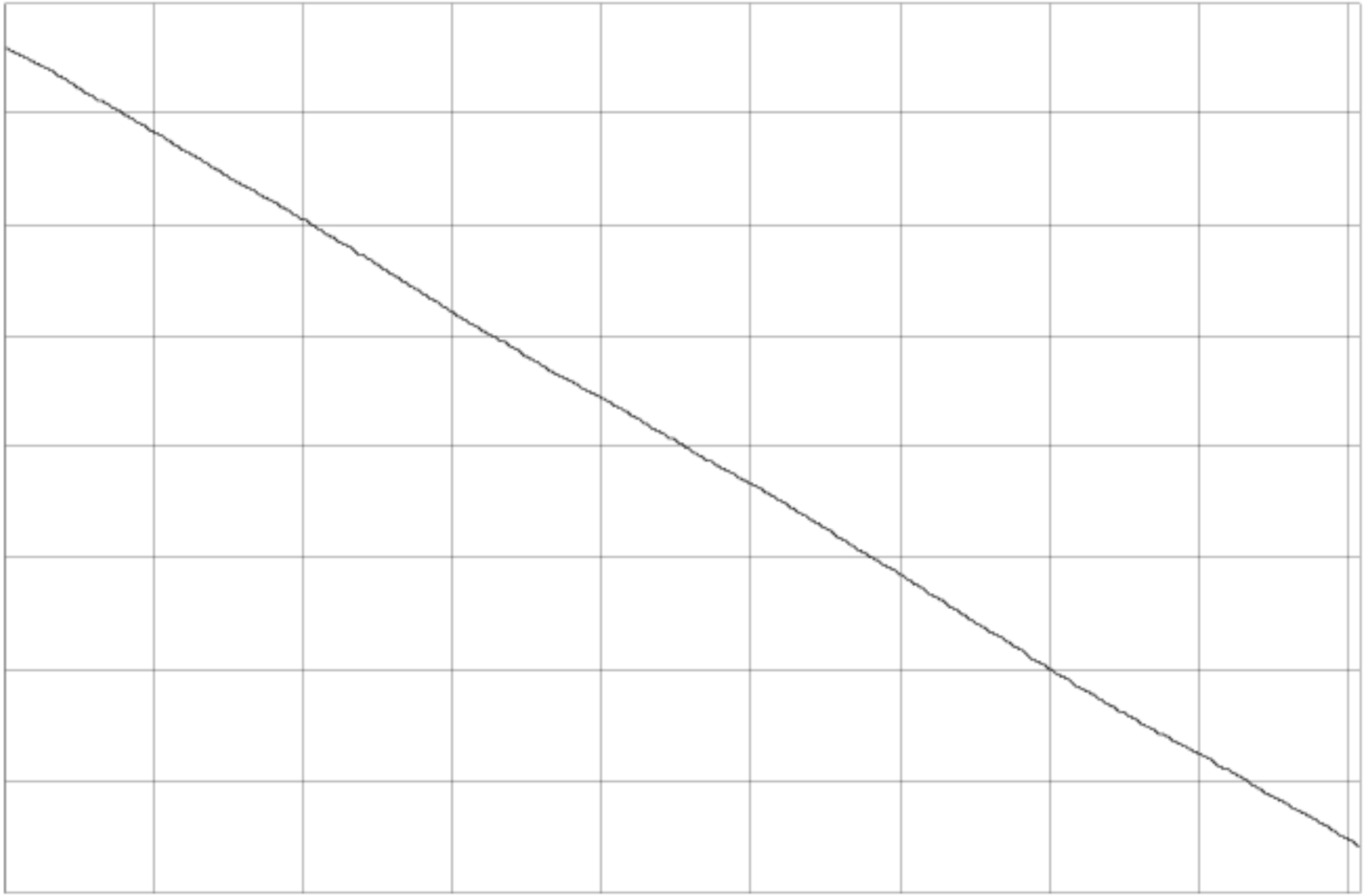
Phase Difference

4.0x10^{-09} s/div

Center: –1.73928x10^{-06} s



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 14 dBm

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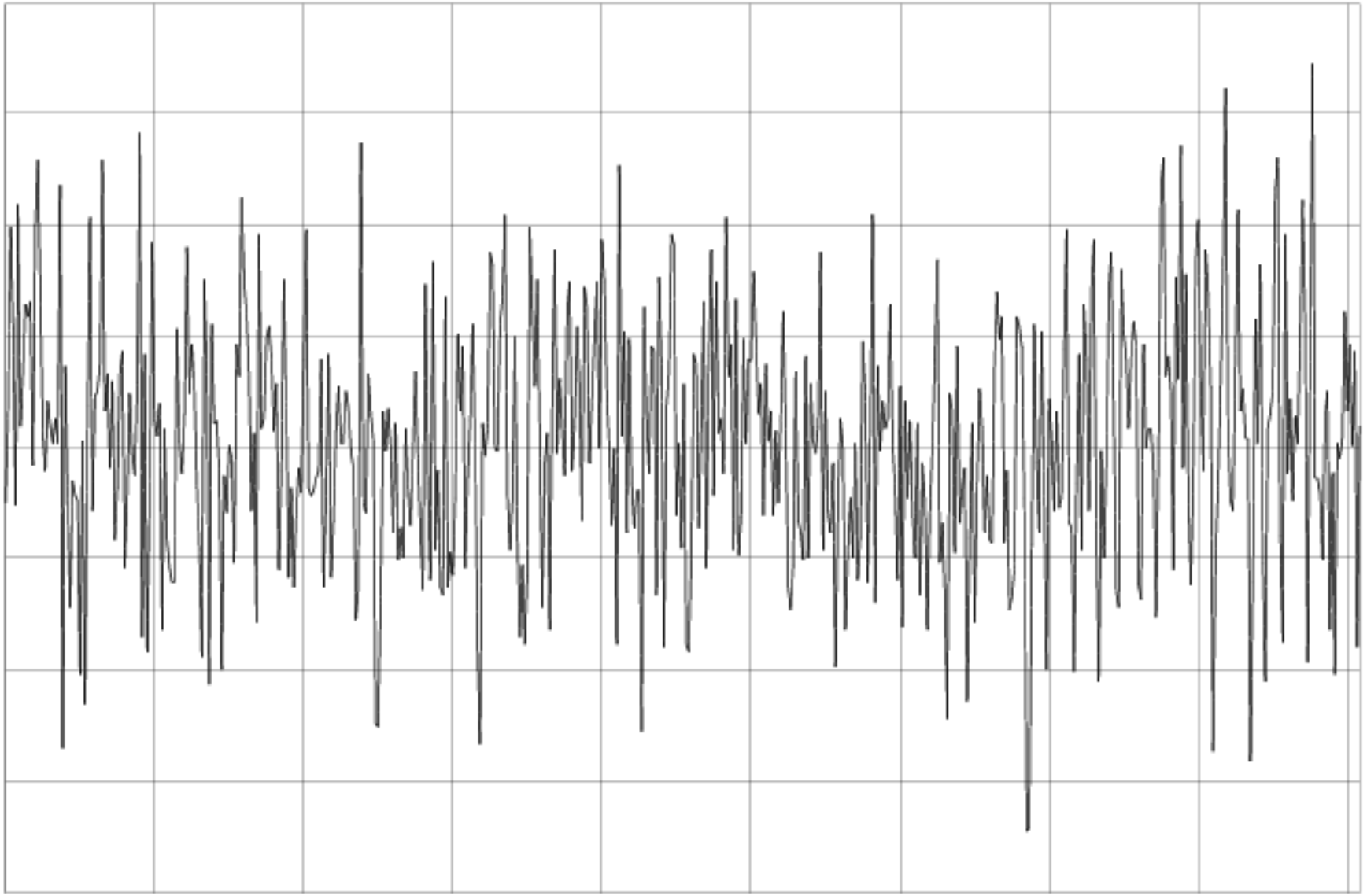
Frequency Difference

9.0x10^{-12} /div

Center: –5.305x10^{-11}



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000058210
10	10.00000000583887
100	10.000000005841780
1000	10.000000005863326

Reference Frequency: 5.0 MHz (auto)

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ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)