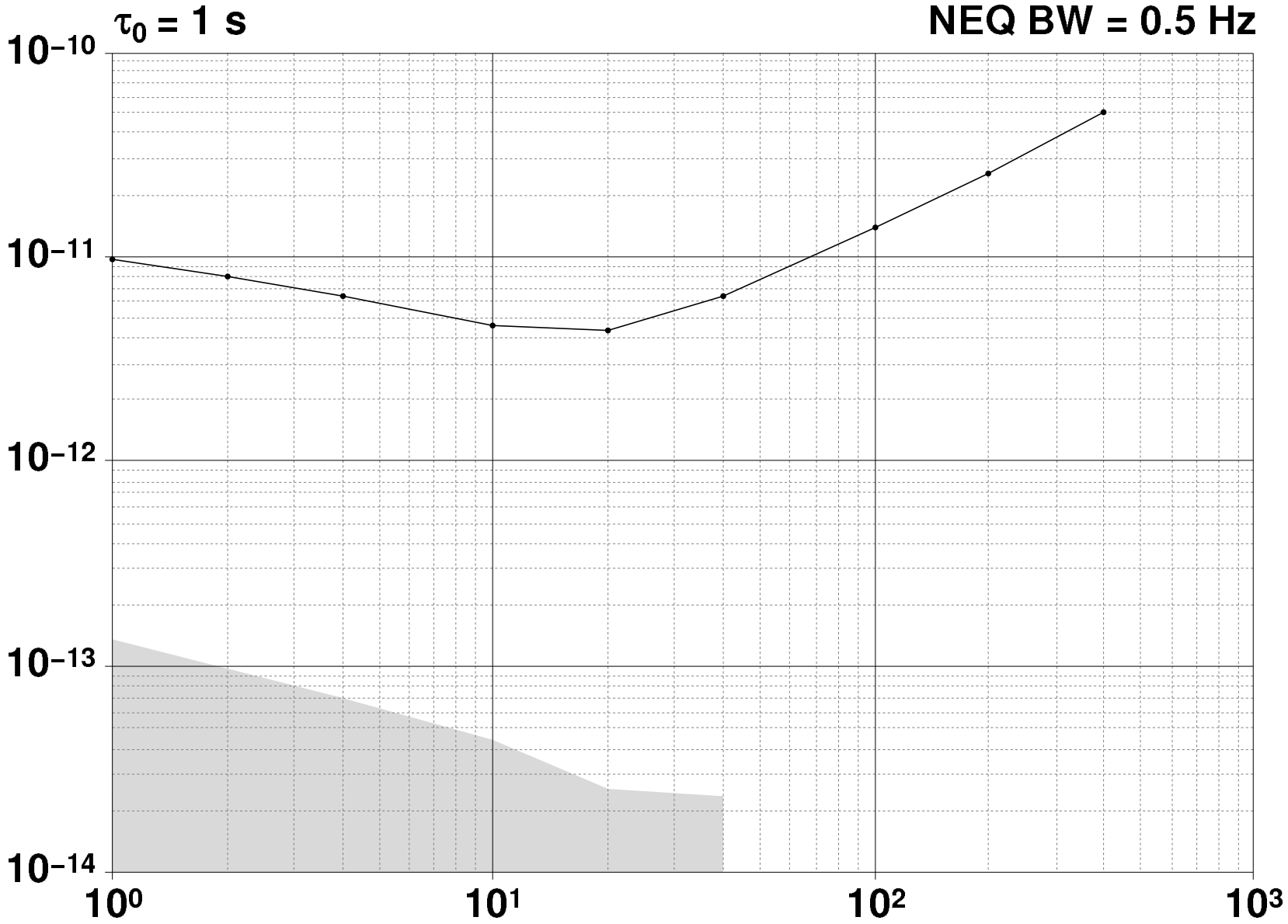
08/02/2012 02:25:14
15m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	9.62×10^{-12}	1.37086×10^{-13}
2	7.93×10^{-12}	9.88445×10^{-14}
4	6.47×10^{-12}	6.99376×10^{-14}
10	4.60×10^{-12}	4.43499×10^{-14}
20	4.3×10^{-12}	2.56690×10^{-14}
40	6.5×10^{-12}	2.34559×10^{-14}
100	1.40×10^{-11}	
200	2.5×10^{-11}	
400	5.1×10^{-11}	

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

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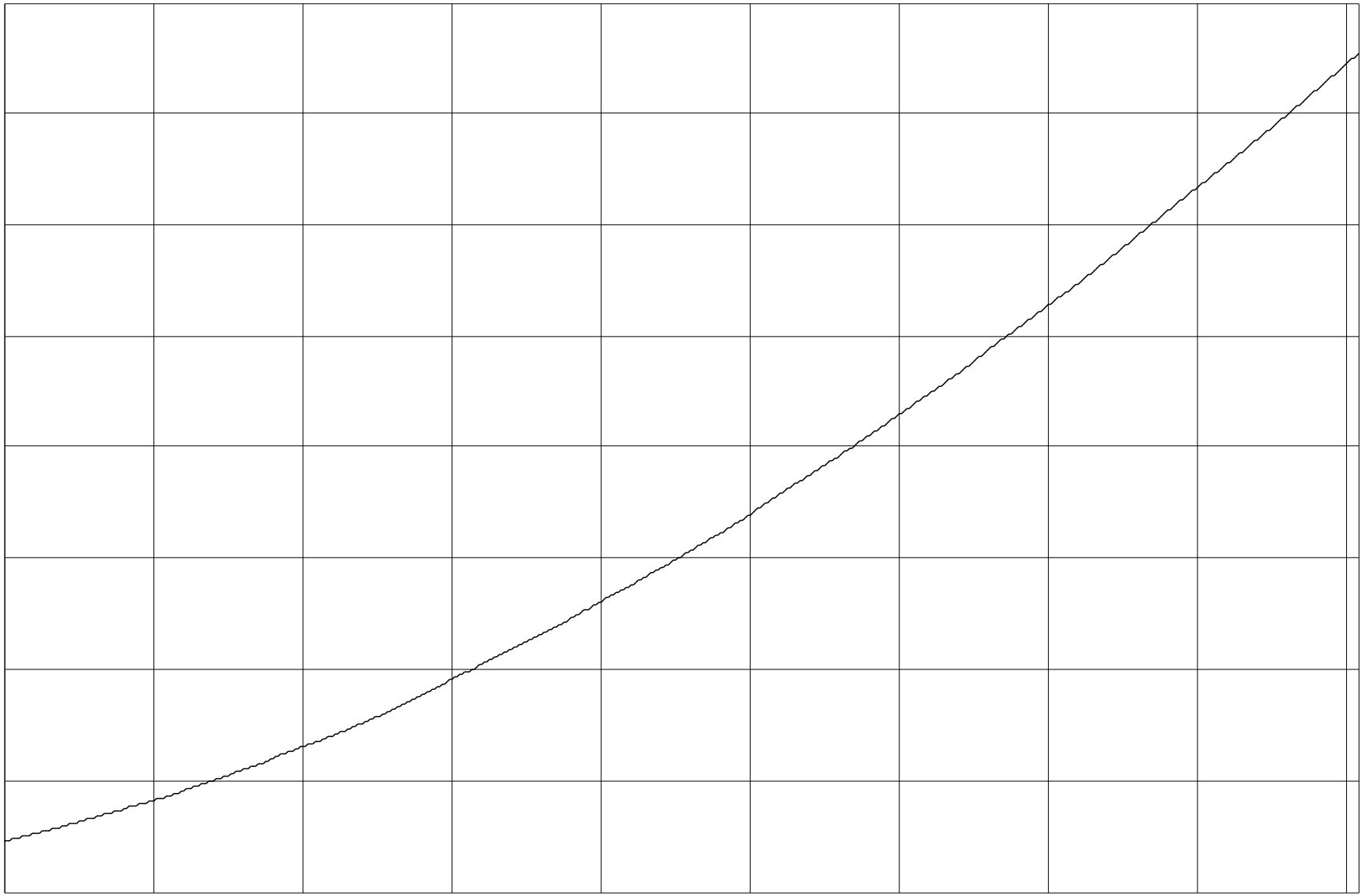
15m

TSC 5120A

Phase Difference

8.0x10^{-09} s/div

Center: 3.760x10^{-08} s



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm

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15m

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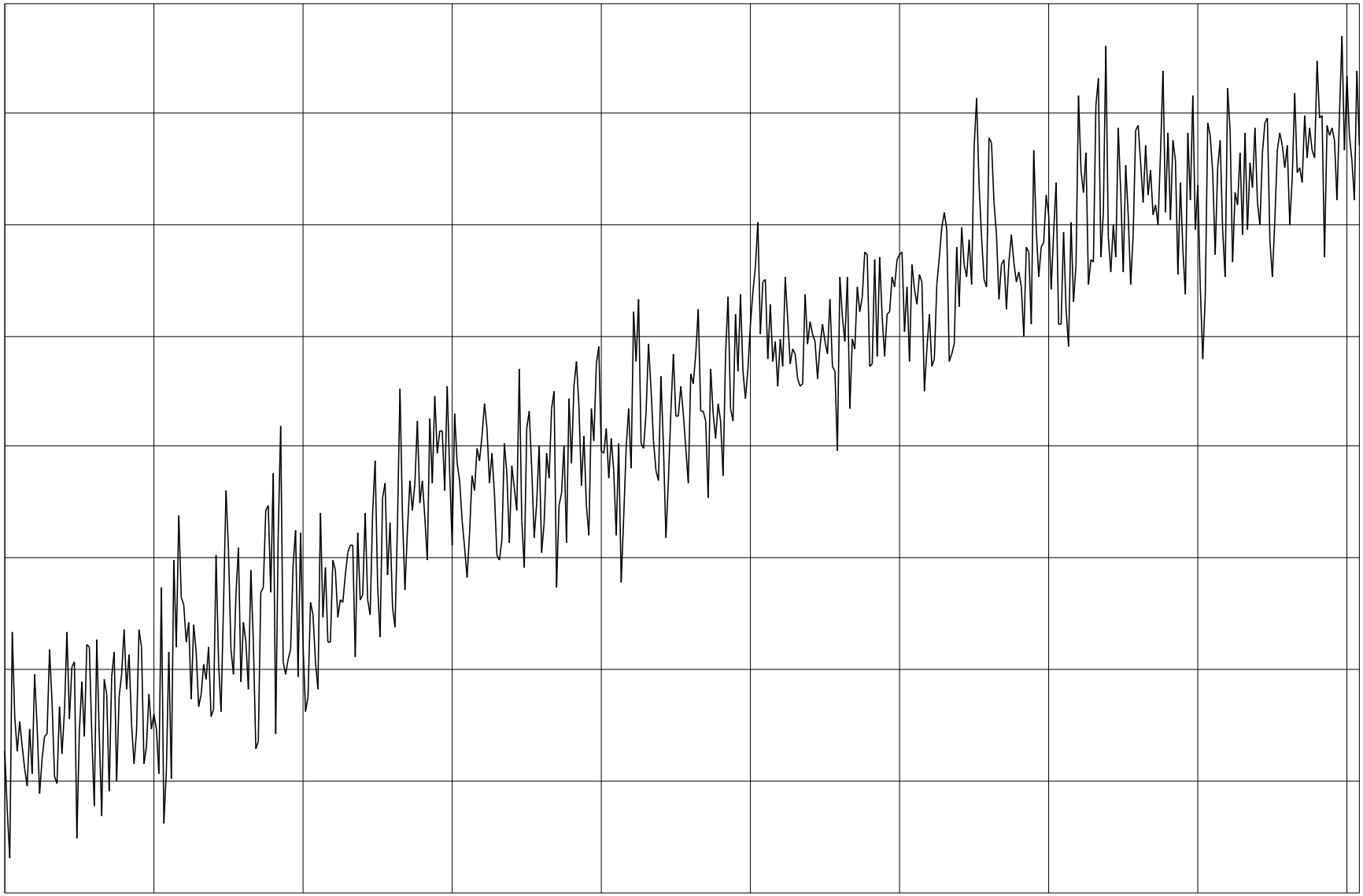
Frequency Difference

2.0x10^{-11} /div

Center: 9.792x10^{-11}



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	9.9999998413041
10	9.99999984139053
100	9.999999841550058

Reference Frequency: 5.0 MHz (auto)

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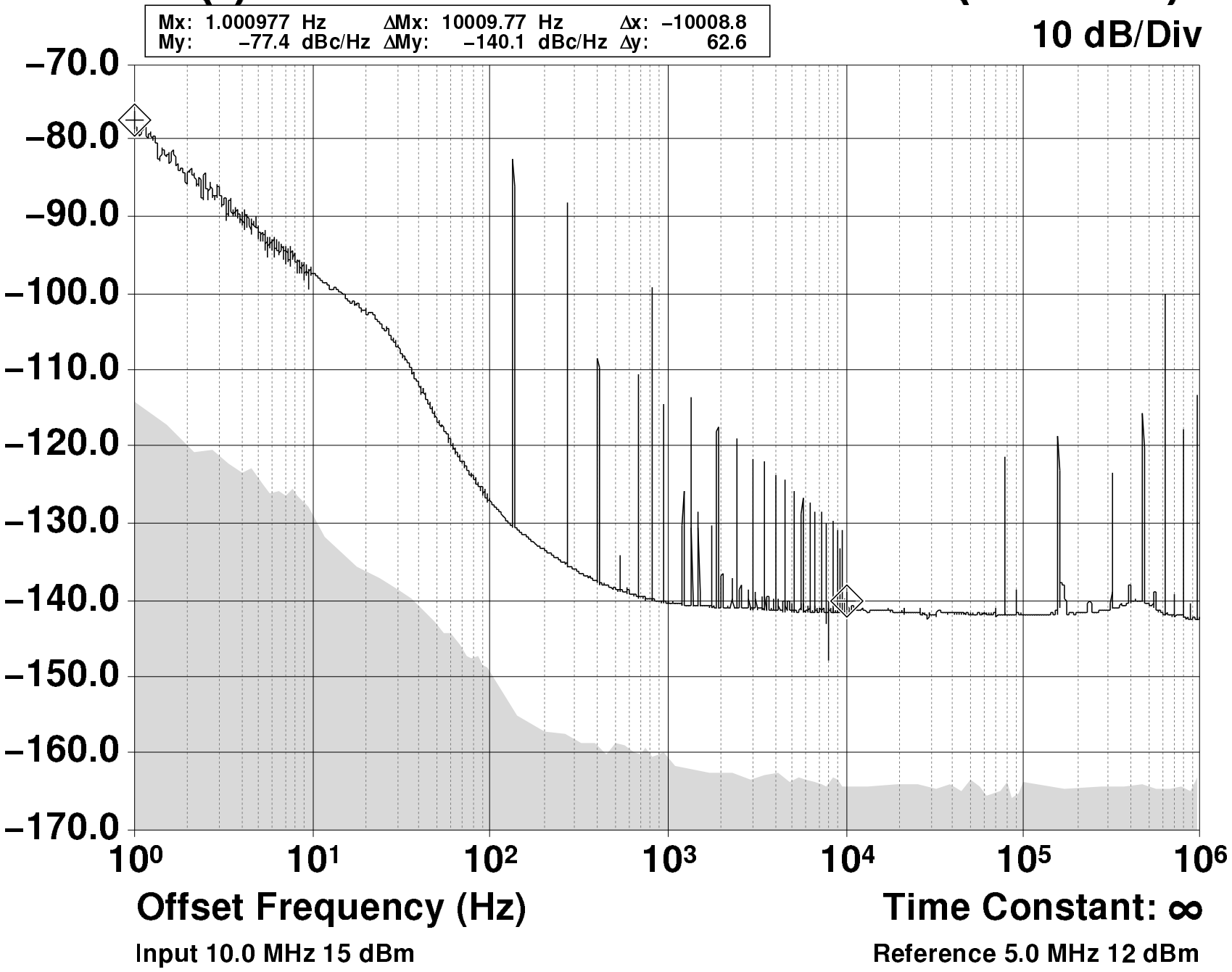
15m

TSC 5120A

ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)