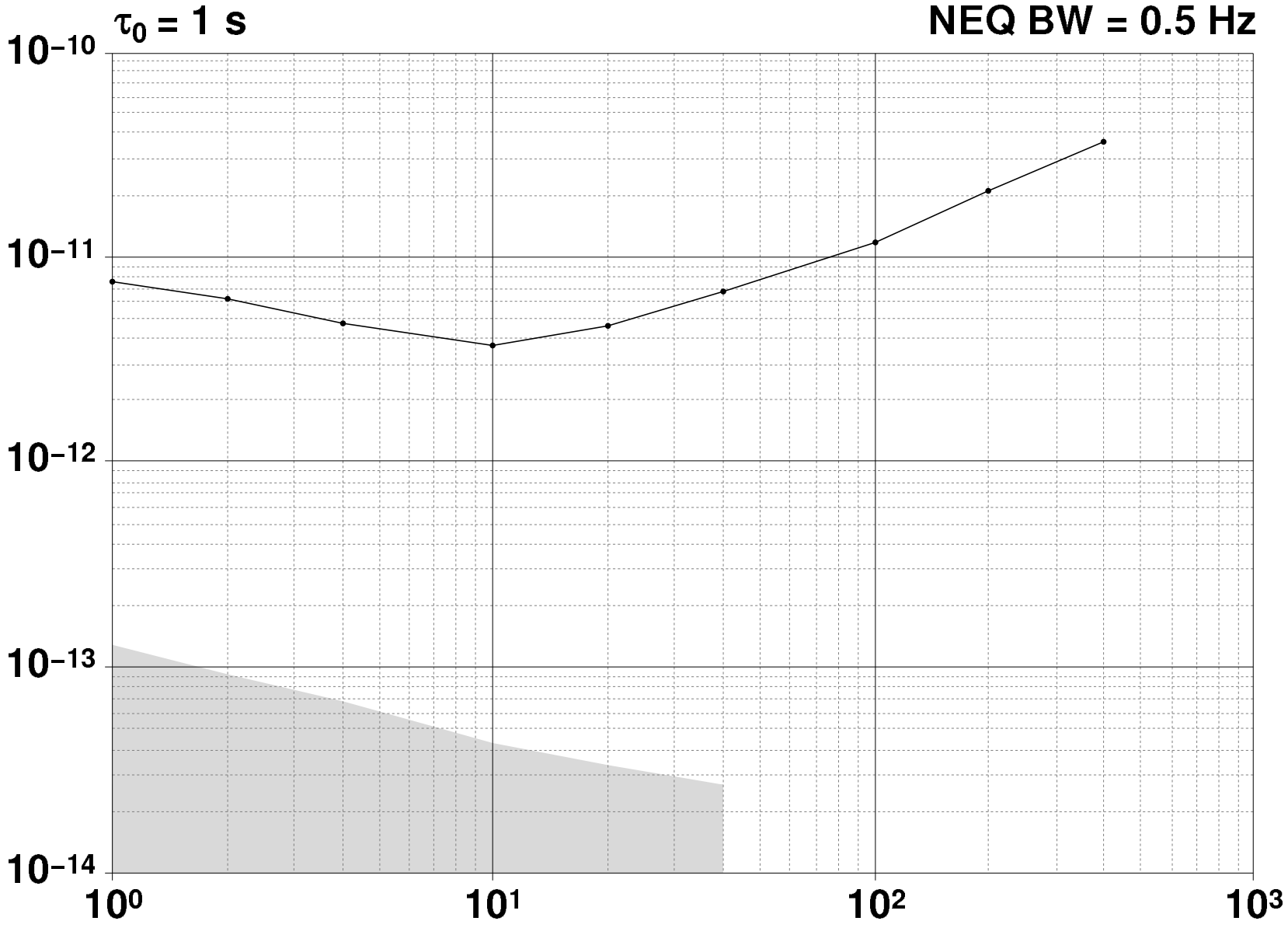
04/02/2012 18:46:15
15m

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	7.59×10^{-12}	1.27199×10^{-13}
2	6.23×10^{-12}	9.16091×10^{-14}
4	4.75×10^{-12}	6.79958×10^{-14}
10	3.69×10^{-12}	4.34431×10^{-14}
20	4.7×10^{-12}	3.39443×10^{-14}
40	6.7×10^{-12}	2.71735×10^{-14}
100	1.17×10^{-11}	
200	2.1×10^{-11}	
400	3.6×10^{-11}	

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

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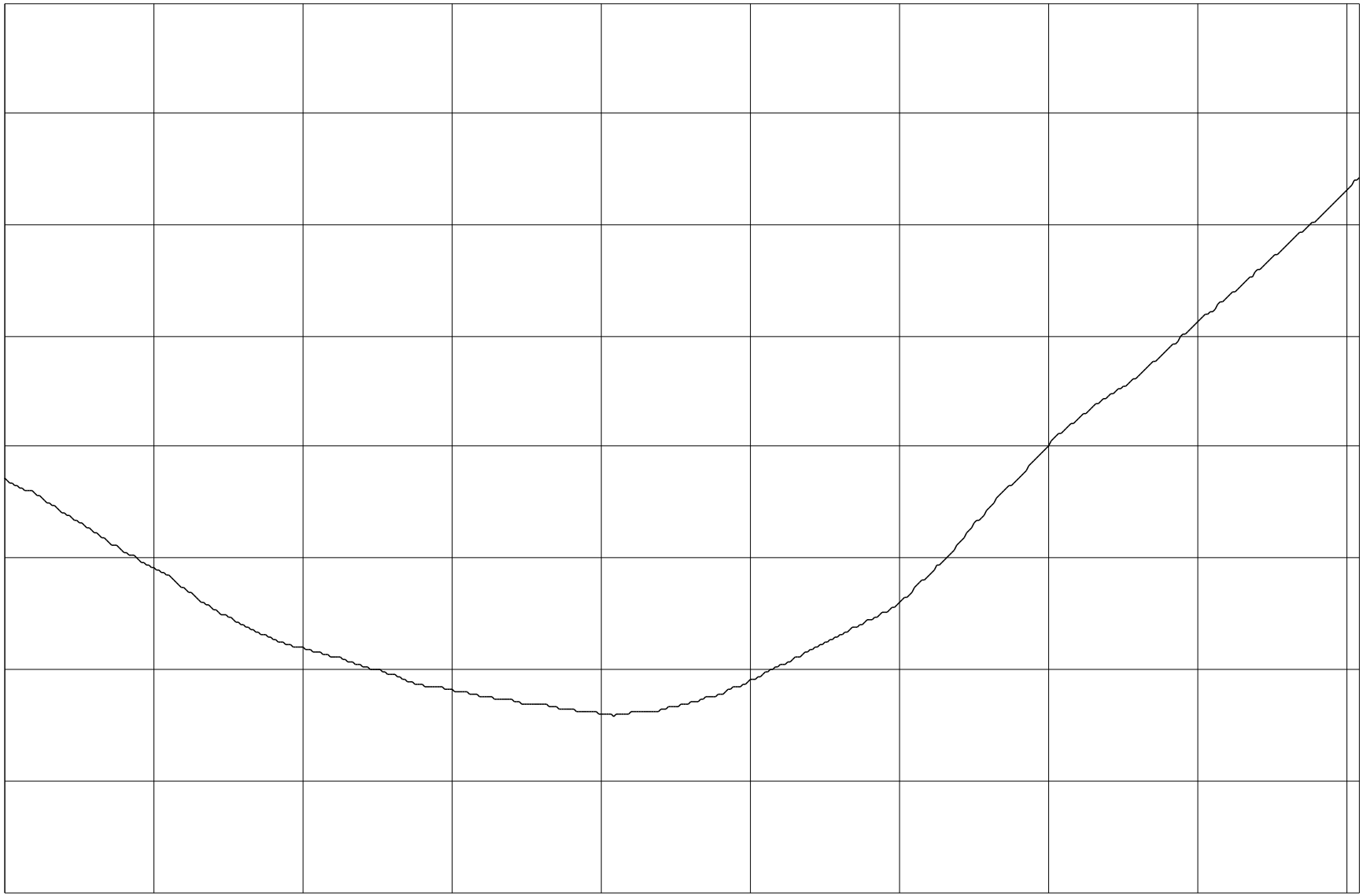
15m

TSC 5120A

Phase Difference

2.0x10^{-09} s/div

Center: –1.665x10^{-08} s



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm

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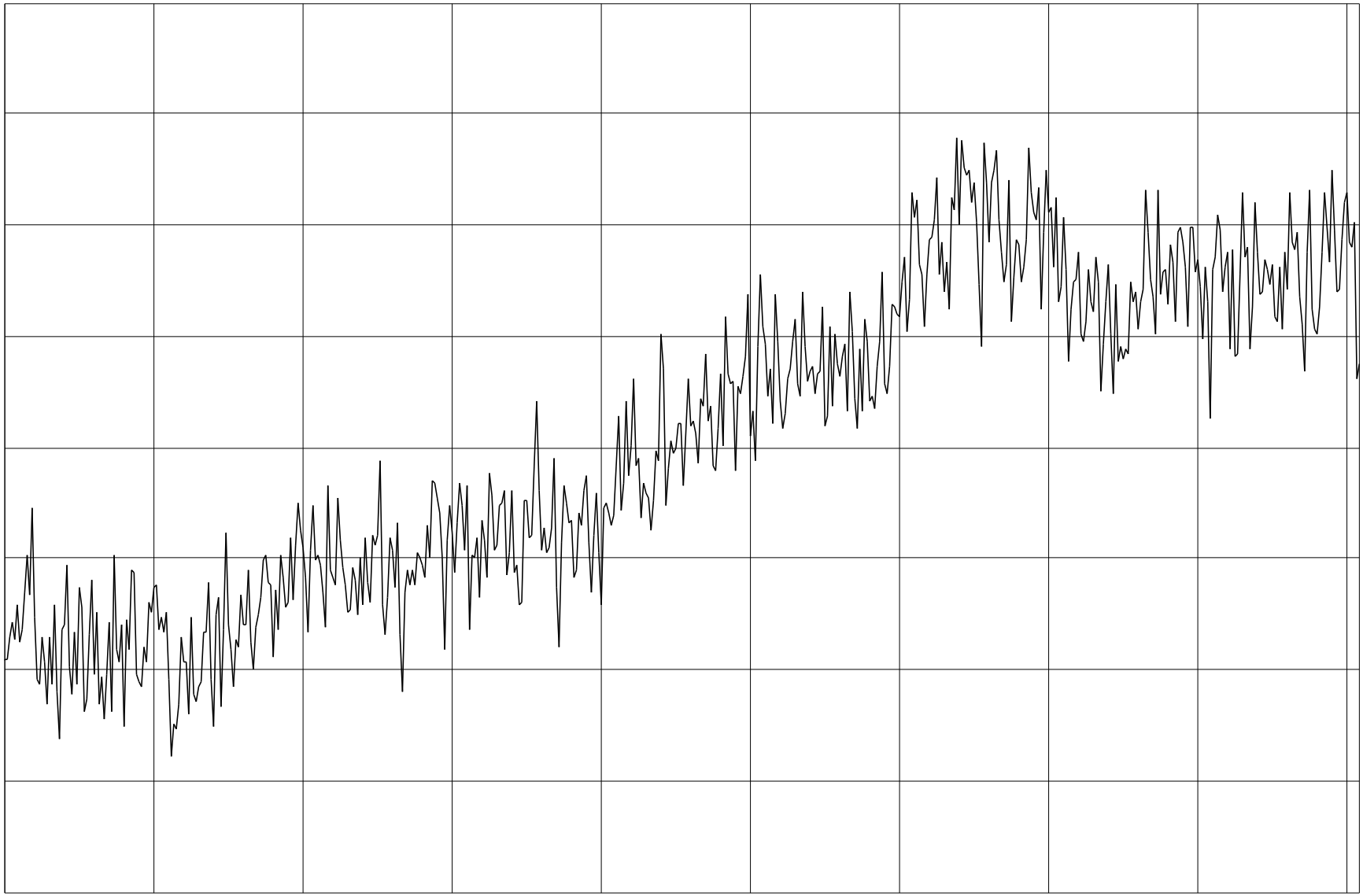
15m

TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: 8.411x10^{-12}



60s/div

Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	9.9999998502358
10	9.99999985021086
100	9.999999850342393

Reference Frequency: 5.0 MHz (auto)

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15m

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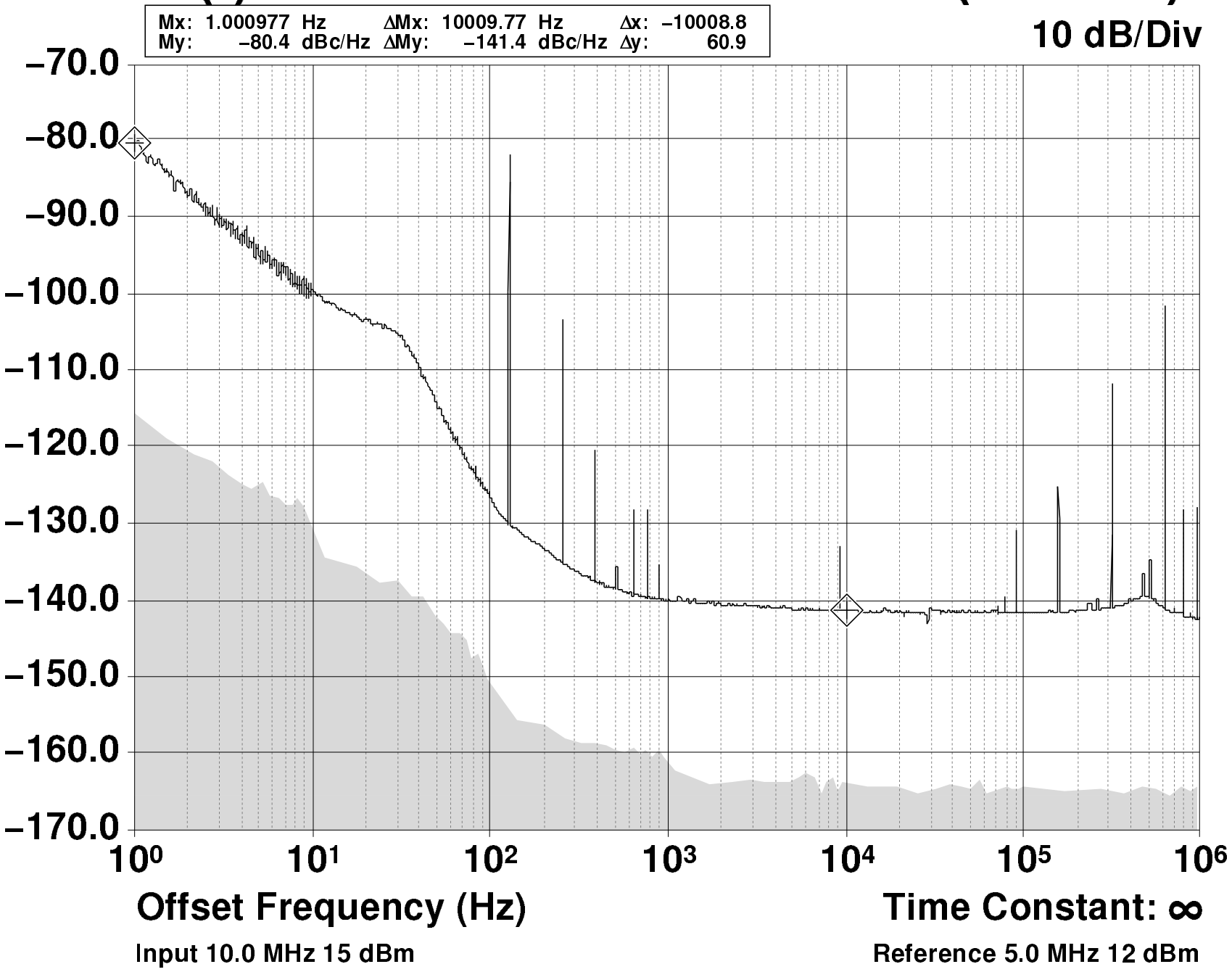
ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 15 dBm

Reference 5.0 MHz 12 dBm