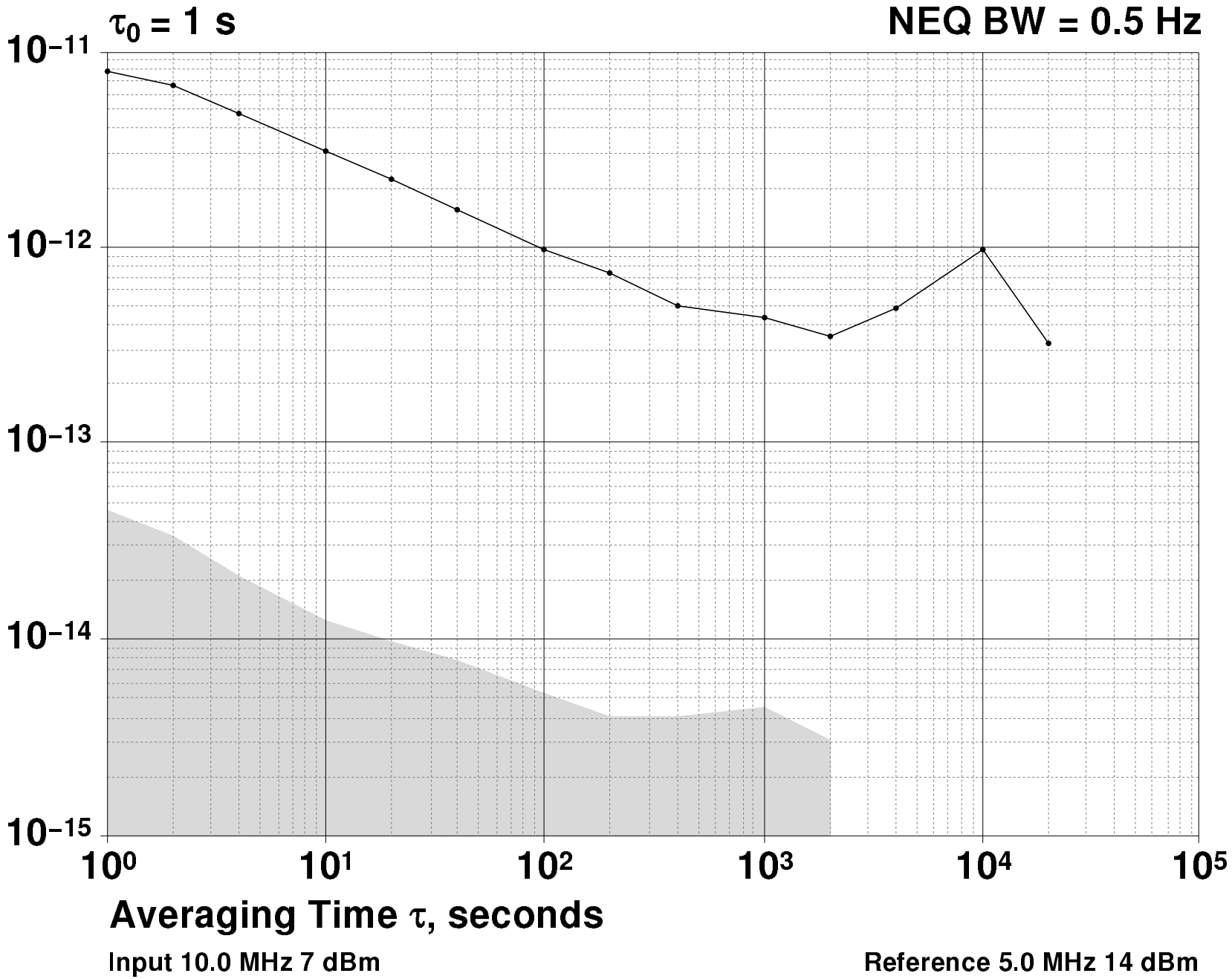
05/02/2012 11:23:40
15h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 7 dBm

Reference 5.0 MHz 14 dBm

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15h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	7.712×10^{-12}	4.57403×10^{-14}
2	6.582×10^{-12}	3.39129×10^{-14}
4	4.767×10^{-12}	2.09639×10^{-14}
10	3.090×10^{-12}	1.26405×10^{-14}
20	2.212×10^{-12}	9.80157×10^{-15}
40	1.550×10^{-12}	7.85680×10^{-15}
100	9.68×10^{-13}	5.34042×10^{-15}
200	7.29×10^{-13}	4.04441×10^{-15}
400	5.01×10^{-13}	4.03632×10^{-15}
1000	4.4×10^{-13}	4.50842×10^{-15}
2000	3.5×10^{-13}	3.07614×10^{-15}
4000	4.9×10^{-13}	
10000	9.7×10^{-13}	
20000	3.3×10^{-13}	

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

Input 10.0 MHz 7 dBm

Reference 5.0 MHz 14 dBm

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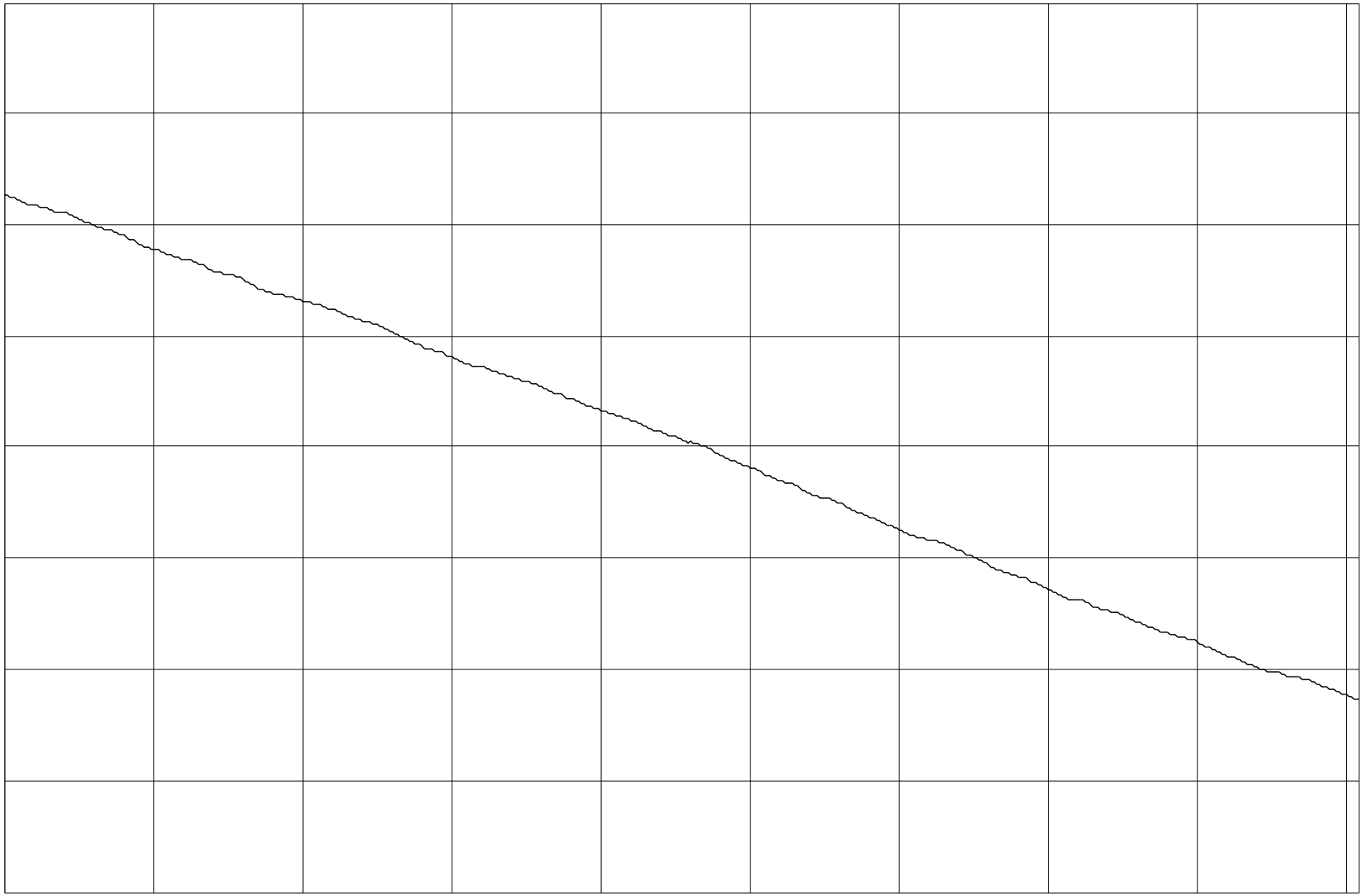
15h 0m

TSC 5120A

Phase Difference

2.0x10^{-09} s/div

Center: –9.2874x10^{-07} s



60s/div

Input 10.0 MHz 7 dBm

Reference 5.0 MHz 14 dBm

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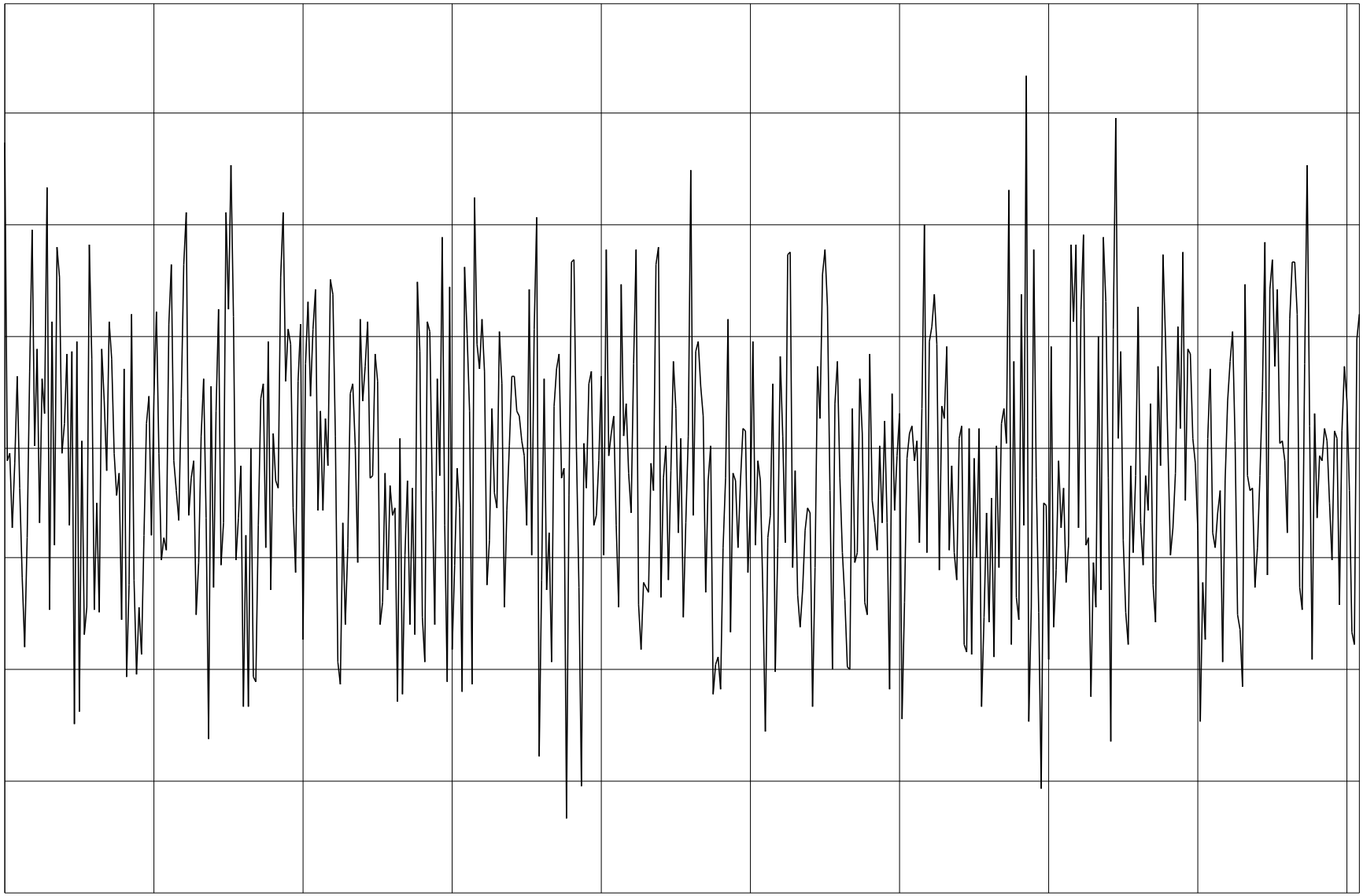
15h 0m

TSC 5120A

Frequency Difference

8.0x10^{-12} /div

Center: –1.498x10^{-11}



60s/div

Input 10.0 MHz 7 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000044591
10	10.00000000461419
100	10.000000004598744
1000	10.000000004601654

Reference Frequency: 5.0 MHz (auto)

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15h 0m

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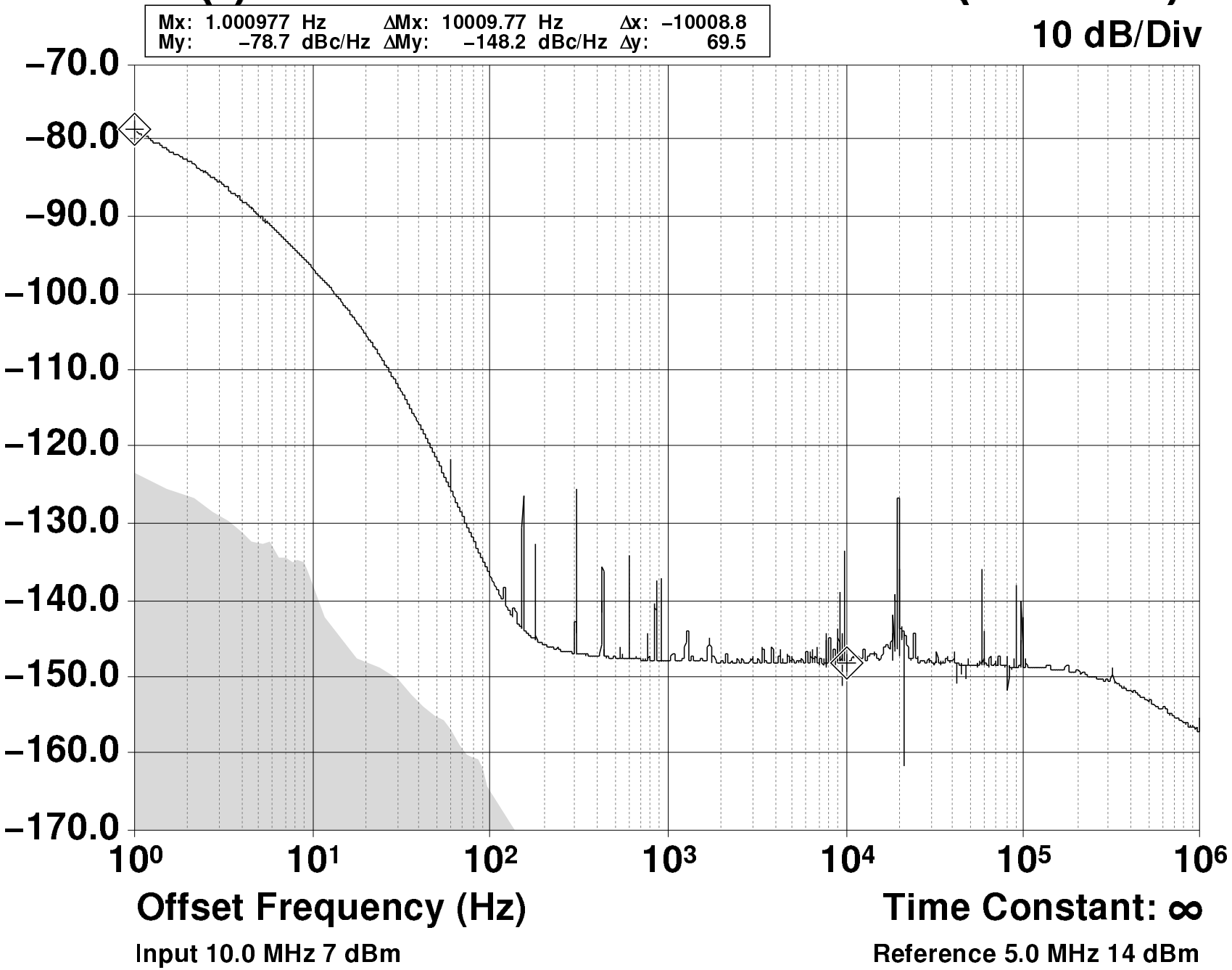
ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 7 dBm

Reference 5.0 MHz 14 dBm