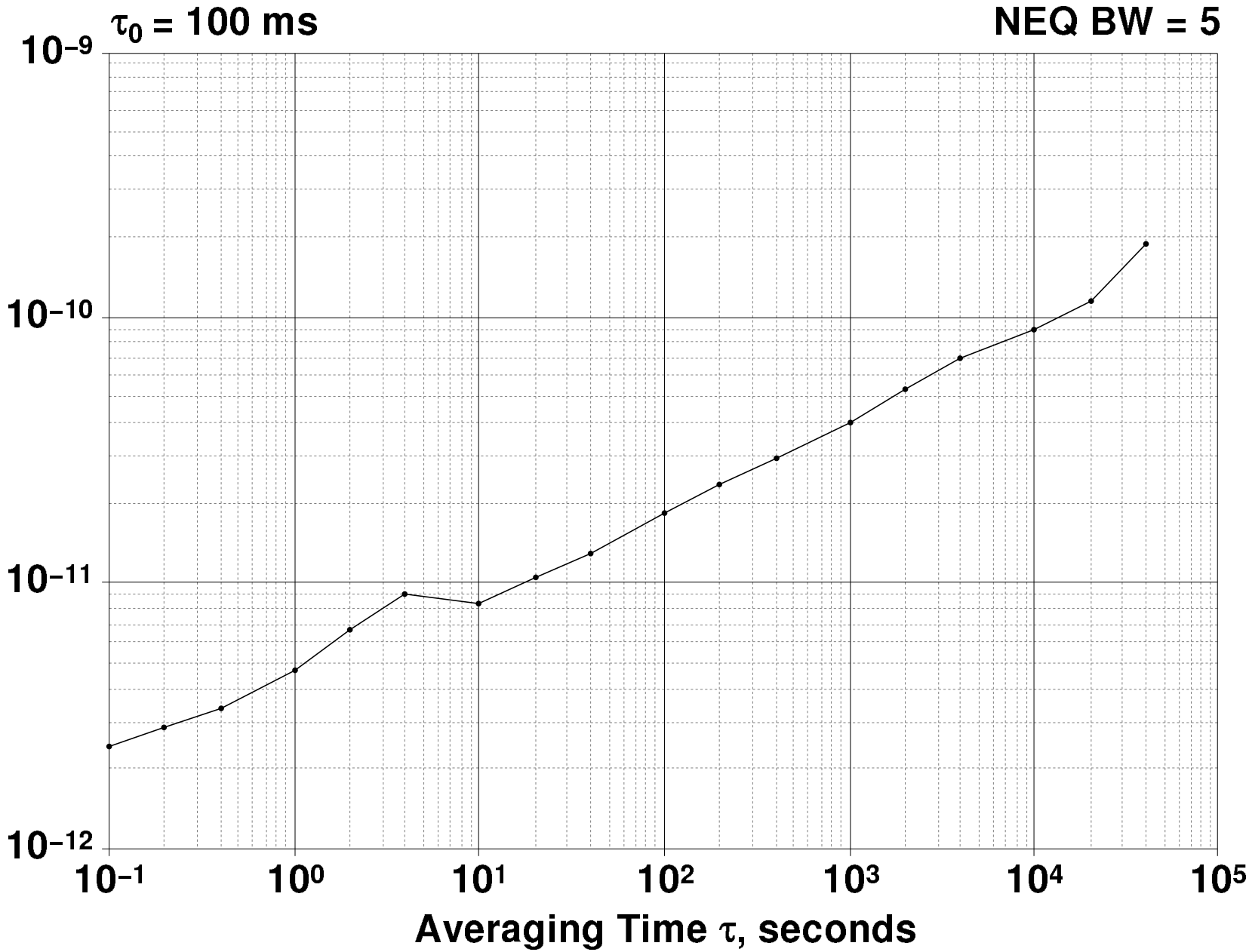
08/03/2007 14:15:58
1d 12h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 8 dBm

Reference 5.0 MHz 13 dBm

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1d 12h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

NEQ BW = 5

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	2.4152×10^{-12}
0.2	2.8441×10^{-12}
0.4	3.358×10^{-12}
1	4.687×10^{-12}
2	6.641×10^{-12}
4	9.132×10^{-12}
10	8.28×10^{-12}
20	1.054×10^{-11}
40	1.280×10^{-11}
100	1.812×10^{-11}
200	2.36×10^{-11}
400	2.93×10^{-11}
1000	4.02×10^{-11}
2000	5.3×10^{-11}
4000	7.0×10^{-11}
10000	9.0×10^{-11}
20000	1.15×10^{-10}
40000	1.9×10^{-10}

Input 10.0 MHz 8 dBm

Reference 5.0 MHz 13 dBm

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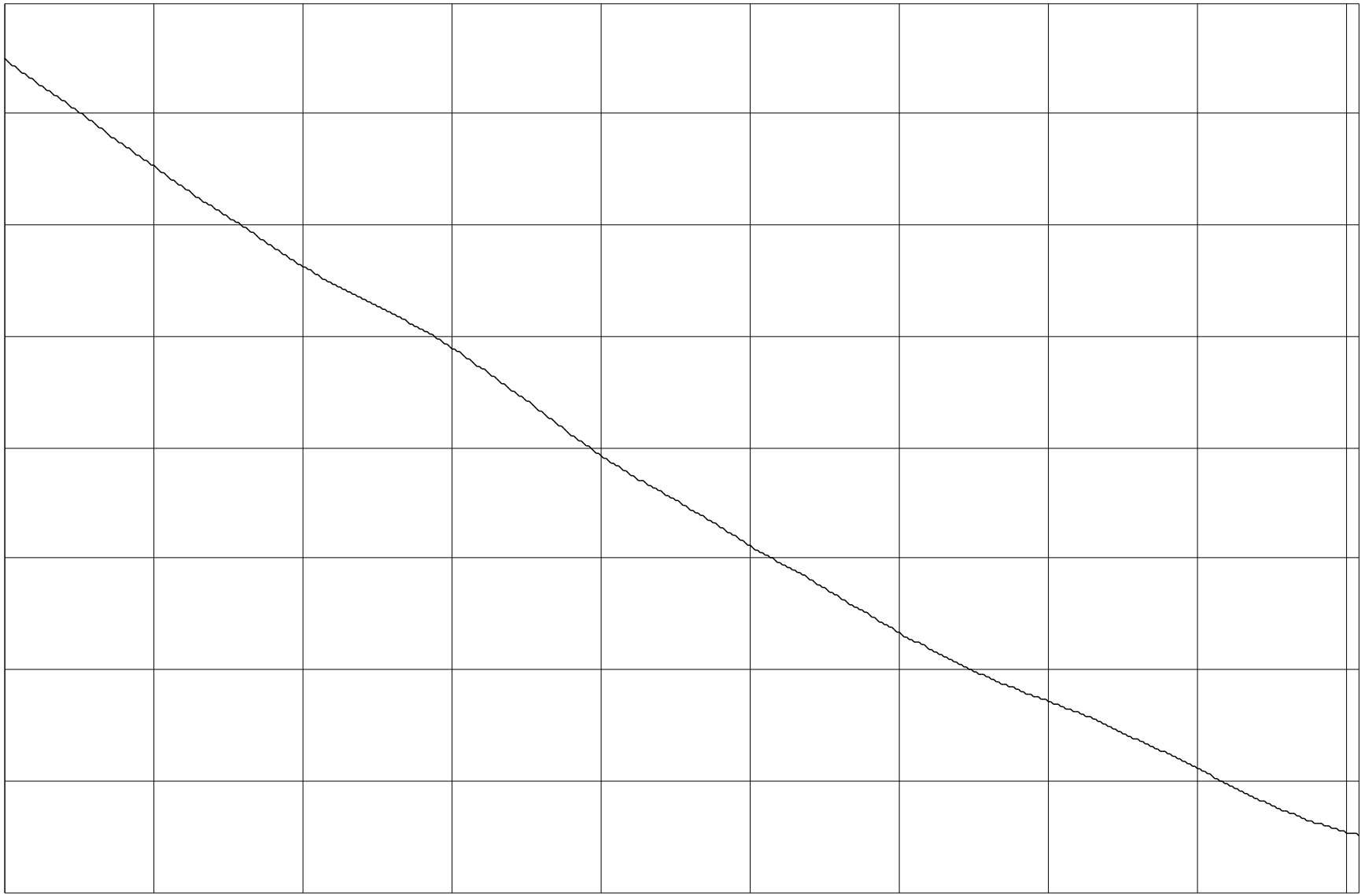
1d 12h

TSC 5120A

Phase Difference

7.0x10^{-09} s/div

Center: –1.665891x10^{-05} s



60s/div

Input 10.0 MHz 8 dBm

Reference 5.0 MHz 13 dBm

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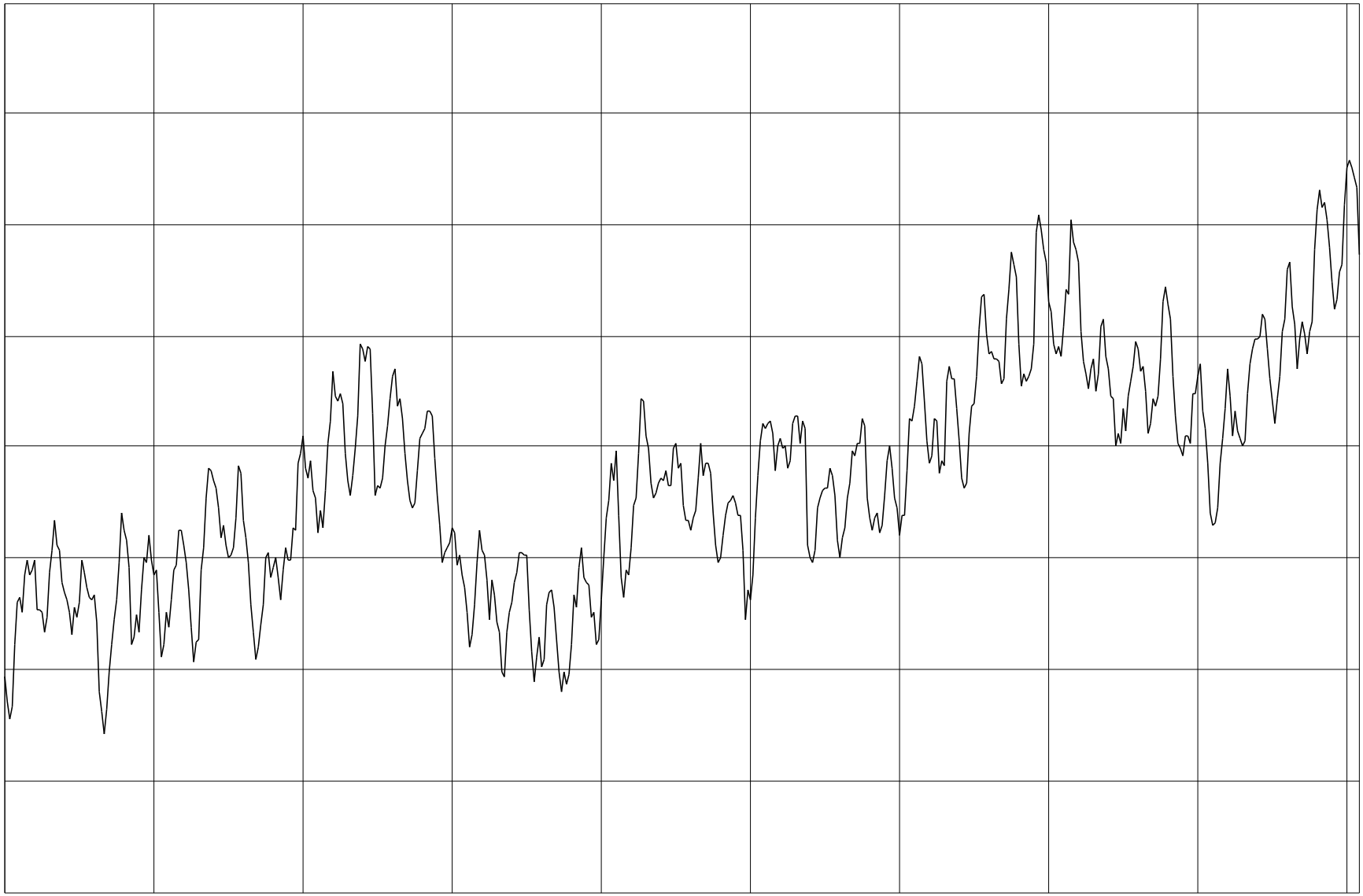
TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: –8.442x10^{-11}



60s/div

Input 10.0 MHz 8 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000809764
10	10.00000008085995
100	10.000000081047874
1000	10.000000081466001

Reference Frequency: 5.0 MHz (auto)

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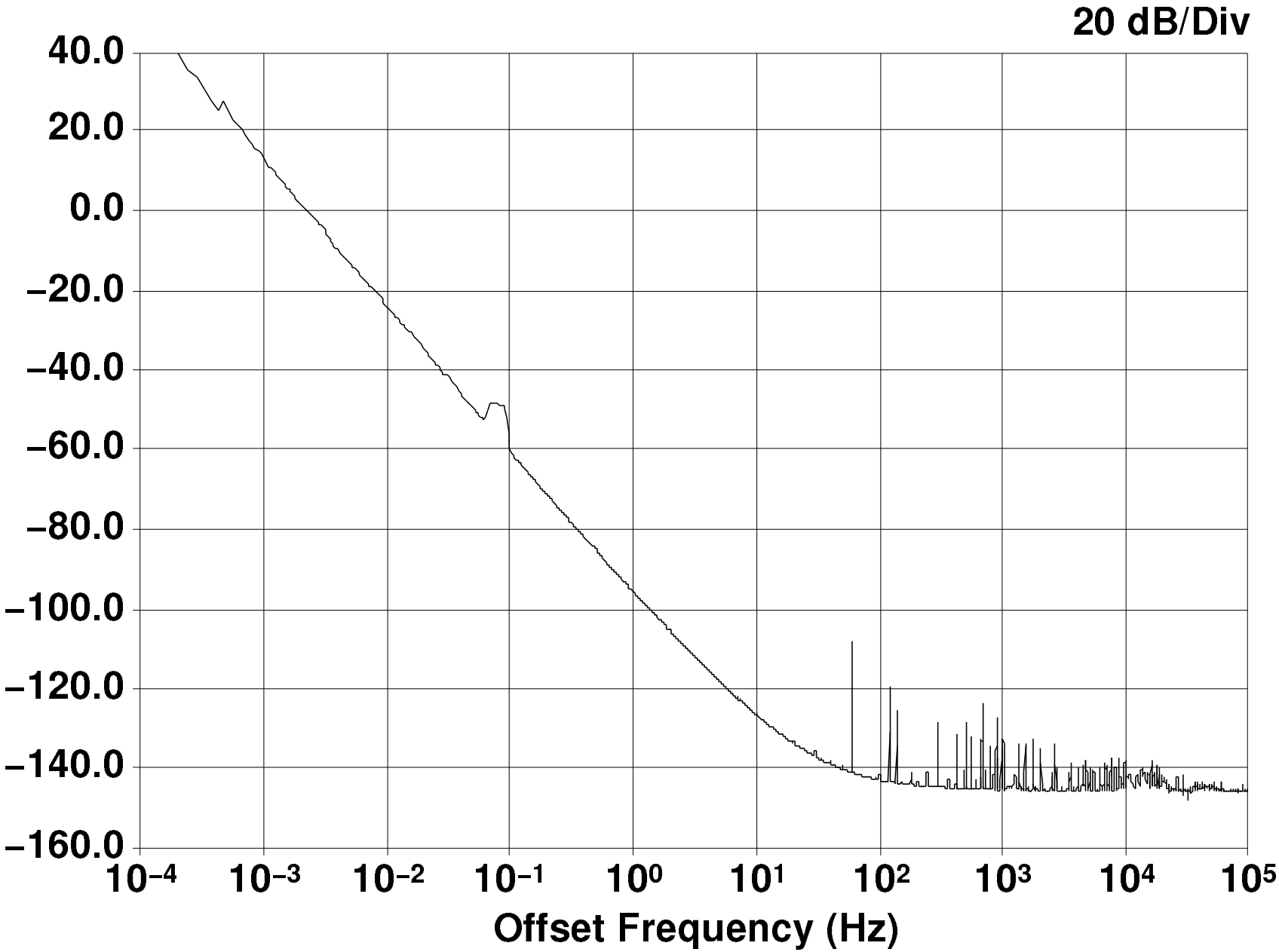
ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 8 dBm

Reference 5.0 MHz 13 dBm