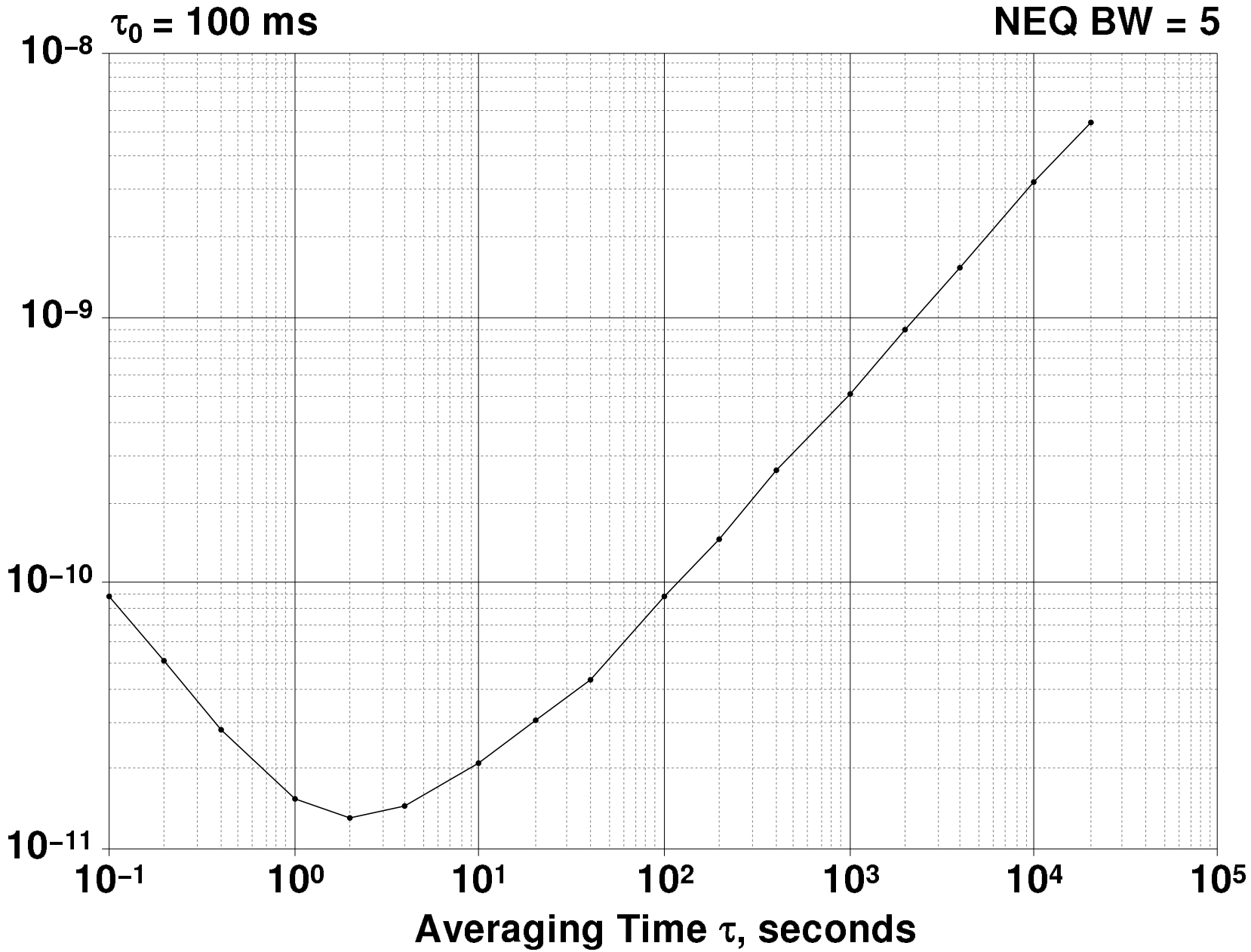
06/06/2007 19:02:06
20h 58m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 11 dBm

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TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

NEQ BW = 5

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	8.850×10^{-11}
0.2	5.142×10^{-11}
0.4	2.814×10^{-11}
1	1.529×10^{-11}
2	1.311×10^{-11}
4	1.460×10^{-11}
10	2.093×10^{-11}
20	3.045×10^{-11}
40	4.34×10^{-11}
100	8.89×10^{-11}
200	1.46×10^{-10}
400	2.63×10^{-10}
1000	5.1×10^{-10}
2000	9.0×10^{-10}
4000	1.53×10^{-9}
10000	3.2×10^{-9}
20000	5.4×10^{-9}

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 11 dBm

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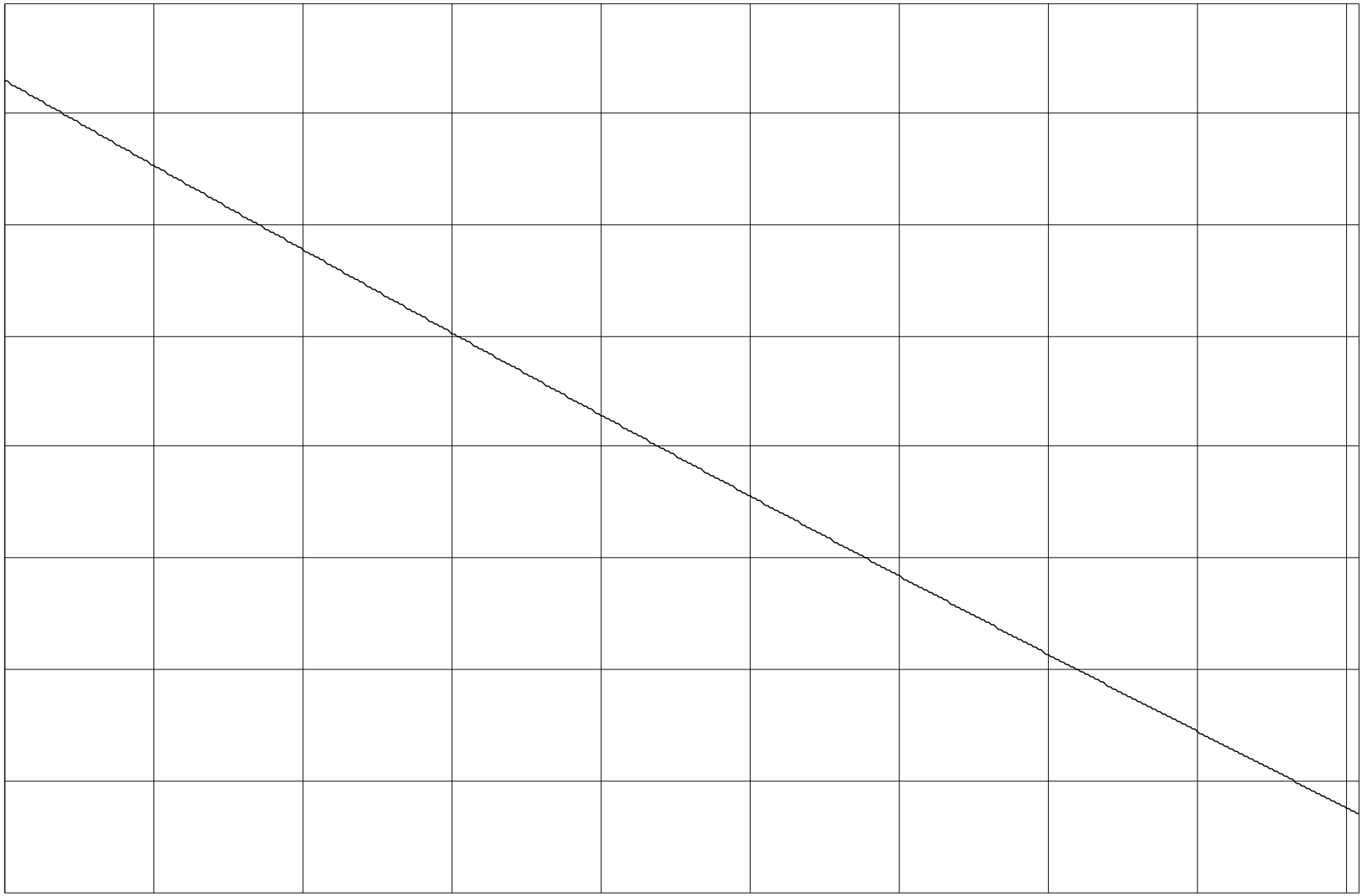
TSC 5120A

Phase Difference

5.0x10^{-07} s/div

Center: –1.024299x10^{-03} s



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 11 dBm

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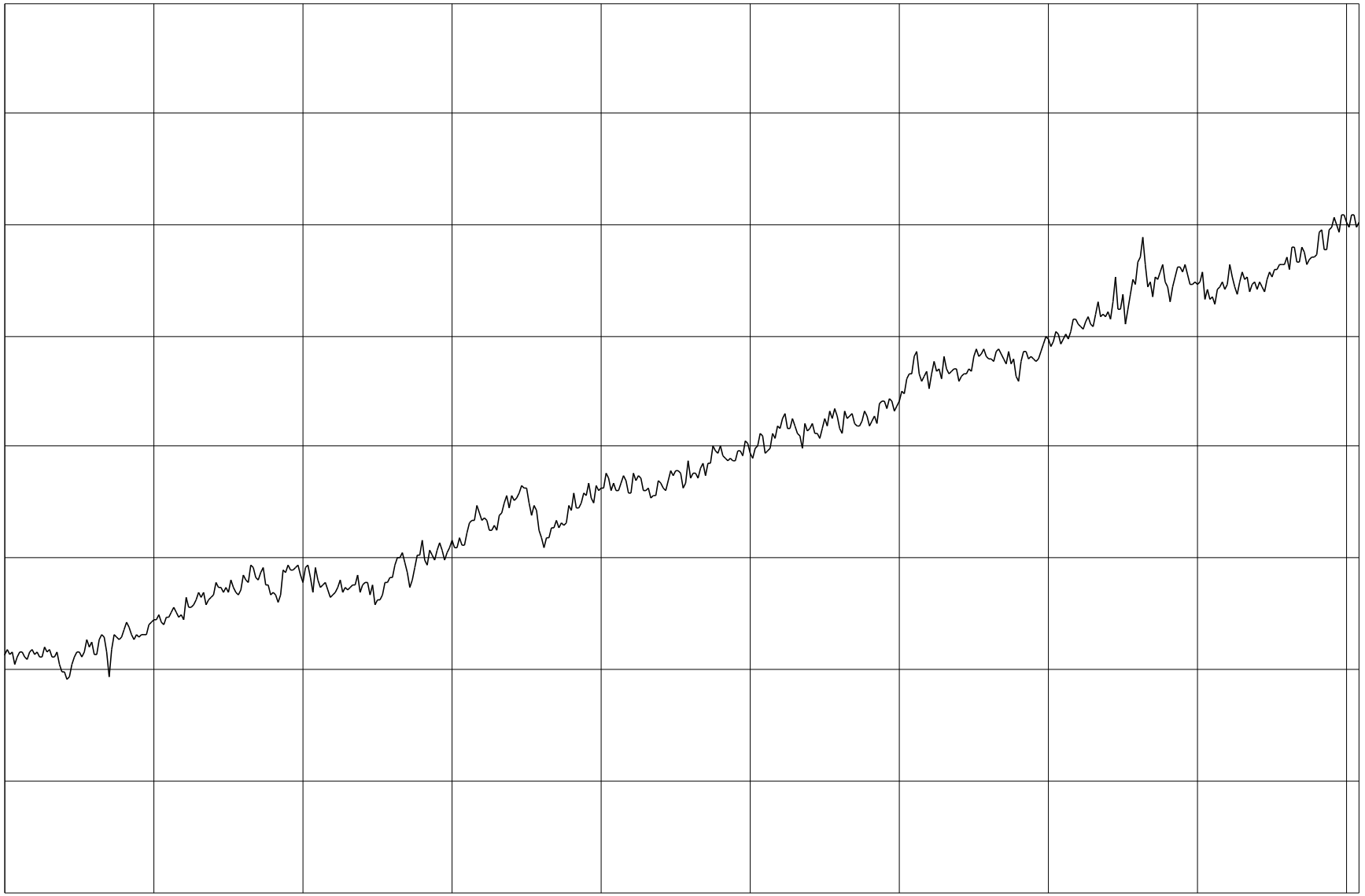
TSC 5120A

Frequency Difference

2.0x10^{-10} /div

Center: –6.015x10^{-09}



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 11 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000007029834
10	10.00000070378138
100	10.000000704429622
1000	10.000000710969006

Reference Frequency: 5.0 MHz (auto)

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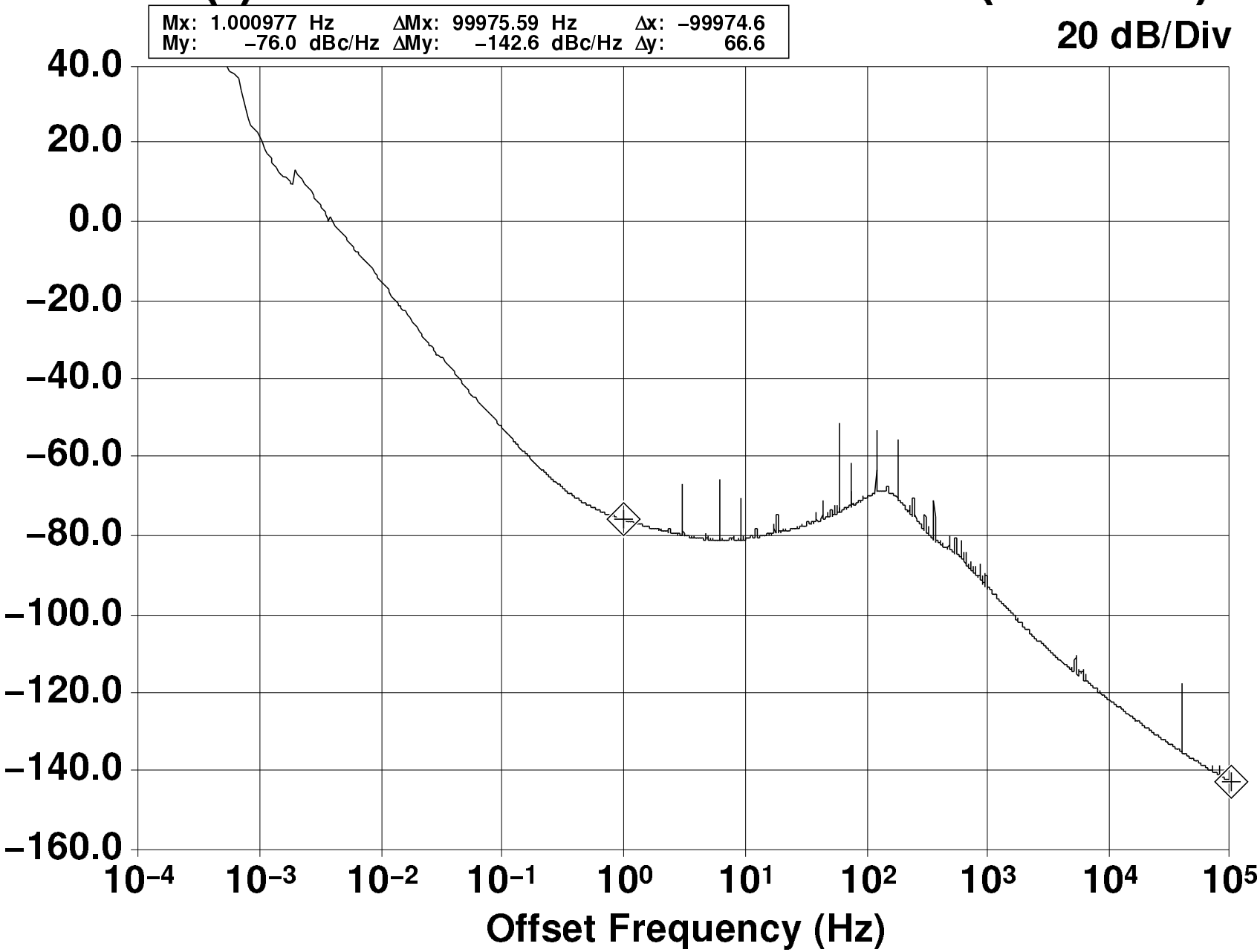
$\mathcal{L}$(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 11 dBm