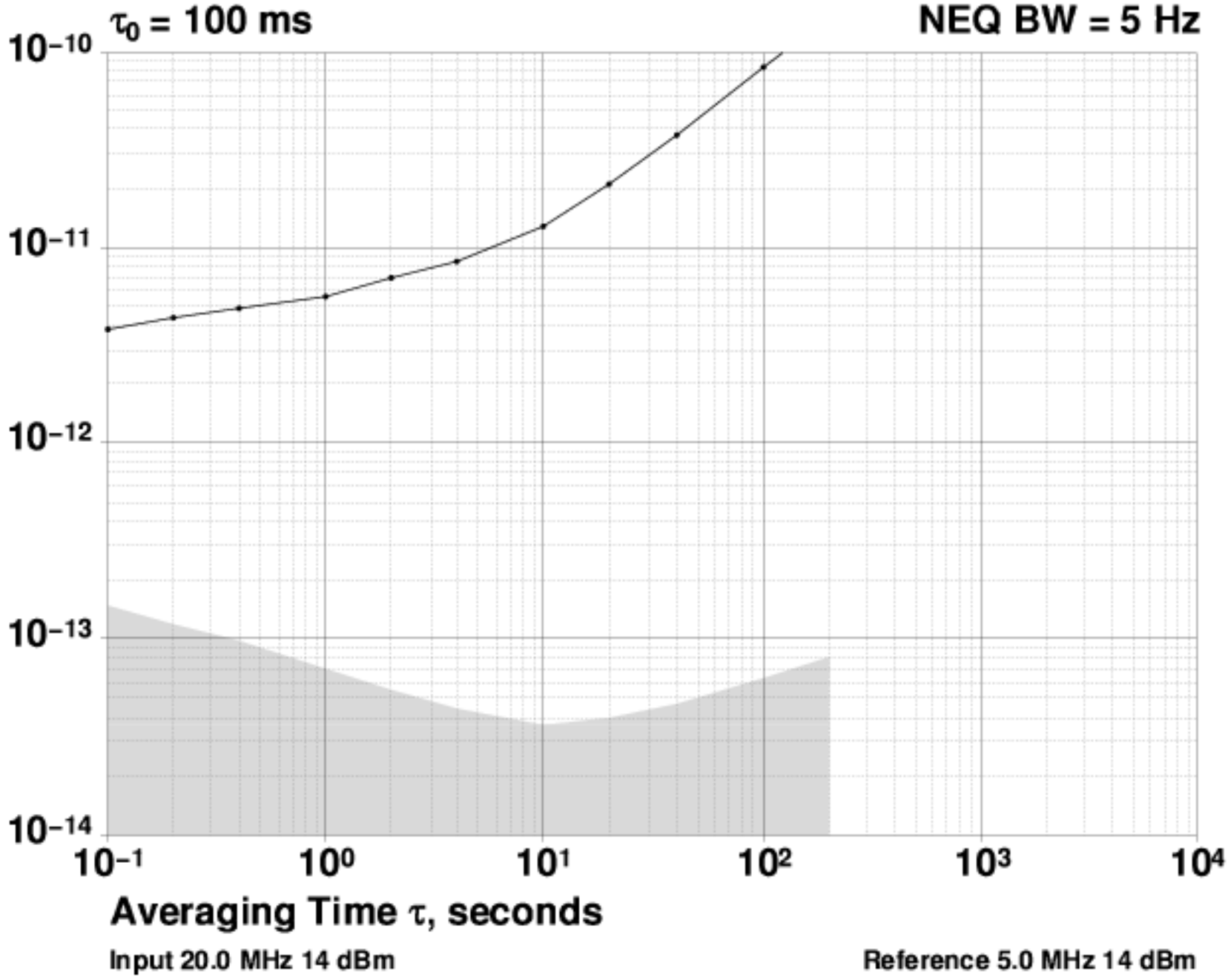
25 Jan 2008 15:49:56
1h 44m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 20.0 MHz 14 dBm

Reference 5.0 MHz 14 dBm

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1h 44m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
0.1	3.784×10^{-12}	1.46122×10^{-13}
0.2	4.363×10^{-12}	1.19738×10^{-13}
0.4	4.834×10^{-12}	9.84424×10^{-14}
1	5.60×10^{-12}	7.03910×10^{-14}
2	6.88×10^{-12}	5.50517×10^{-14}
4	8.31×10^{-12}	4.44726×10^{-14}
10	1.27×10^{-11}	3.61910×10^{-14}
20	2.07×10^{-11}	3.93094×10^{-14}
40	3.73×10^{-11}	4.66604×10^{-14}
100	8.4×10^{-11}	6.37622×10^{-14}
200	1.50×10^{-10}	8.08732×10^{-14}
400	2.3×10^{-10}	
1000	3.6×10^{-10}	
2000	7.0×10^{-10}	

τ_0 = 100 ms NEQ BW = 5 Hz

Input 20.0 MHz 14 dBm

Reference 5.0 MHz 14 dBm

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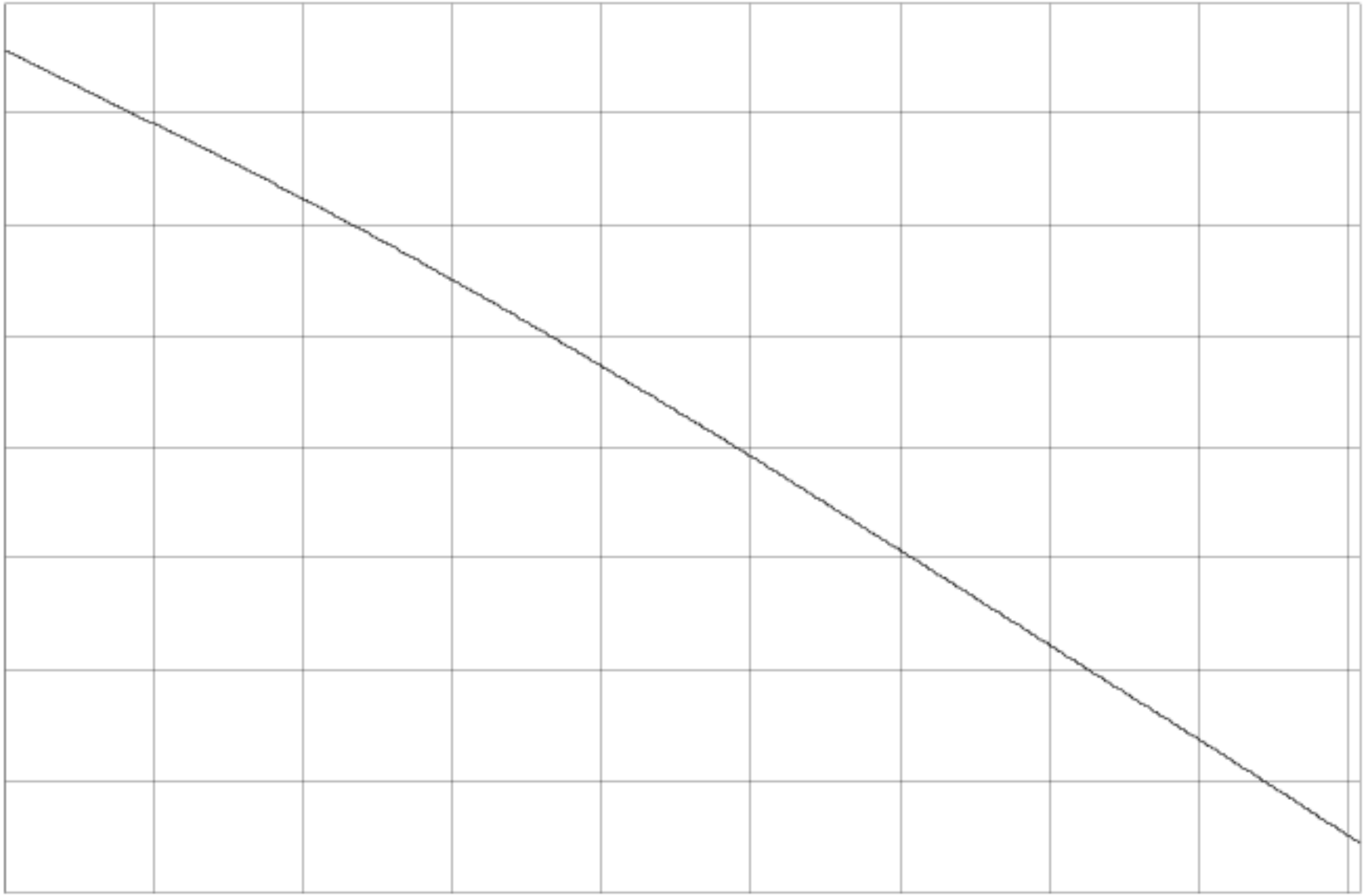
1h 44m

TSC 5120A

Phase Difference

2.0x10^{-07} s/div

Center: –5.675x10^{-06} s



60s/div

Input 20.0 MHz 14 dBm

Reference 5.0 MHz 14 dBm

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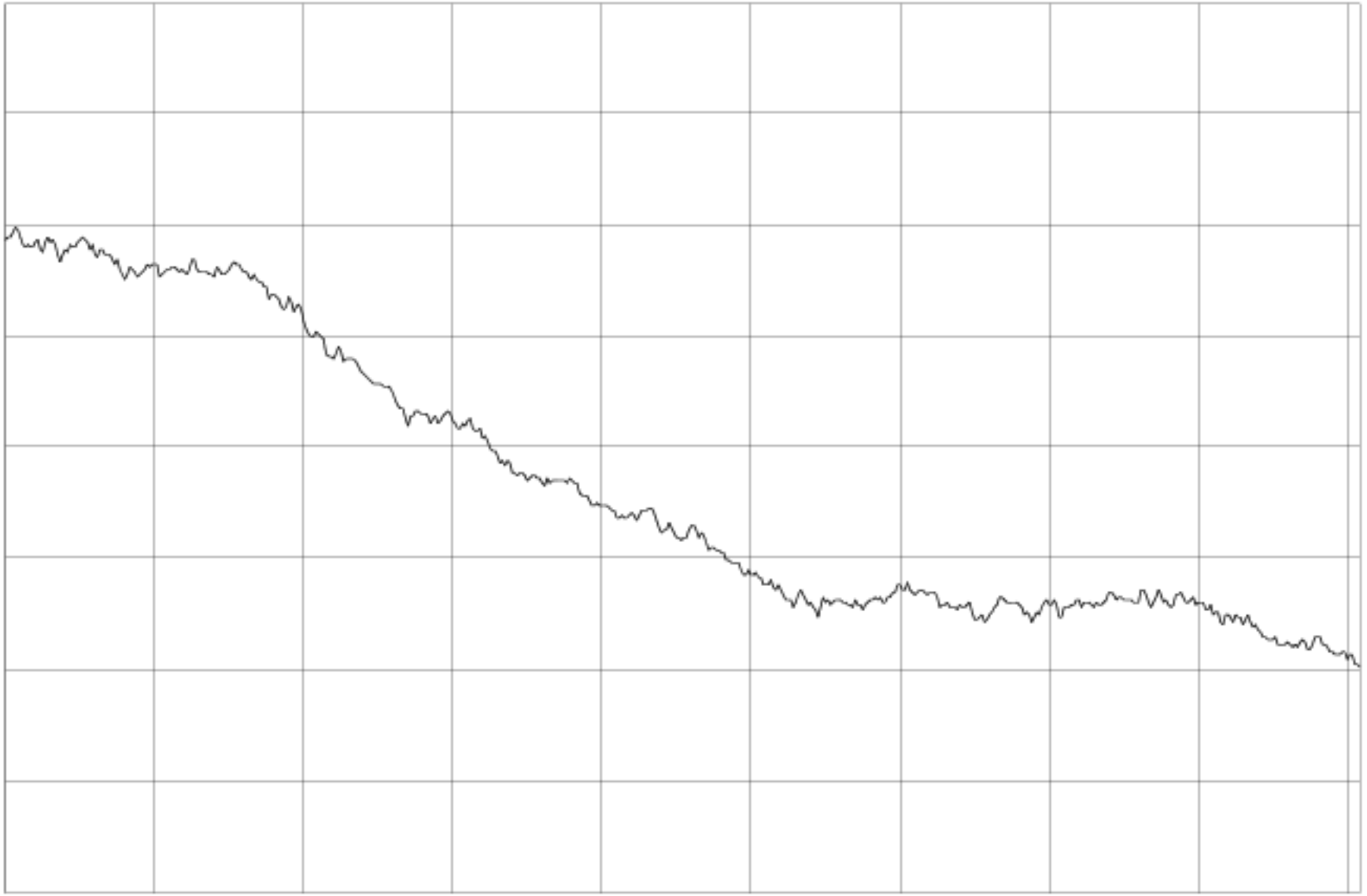
1h 44m

TSC 5120A

Frequency Difference

2.0x10^{-10} /div

Center: –2.542x10^{-09}



60s/div

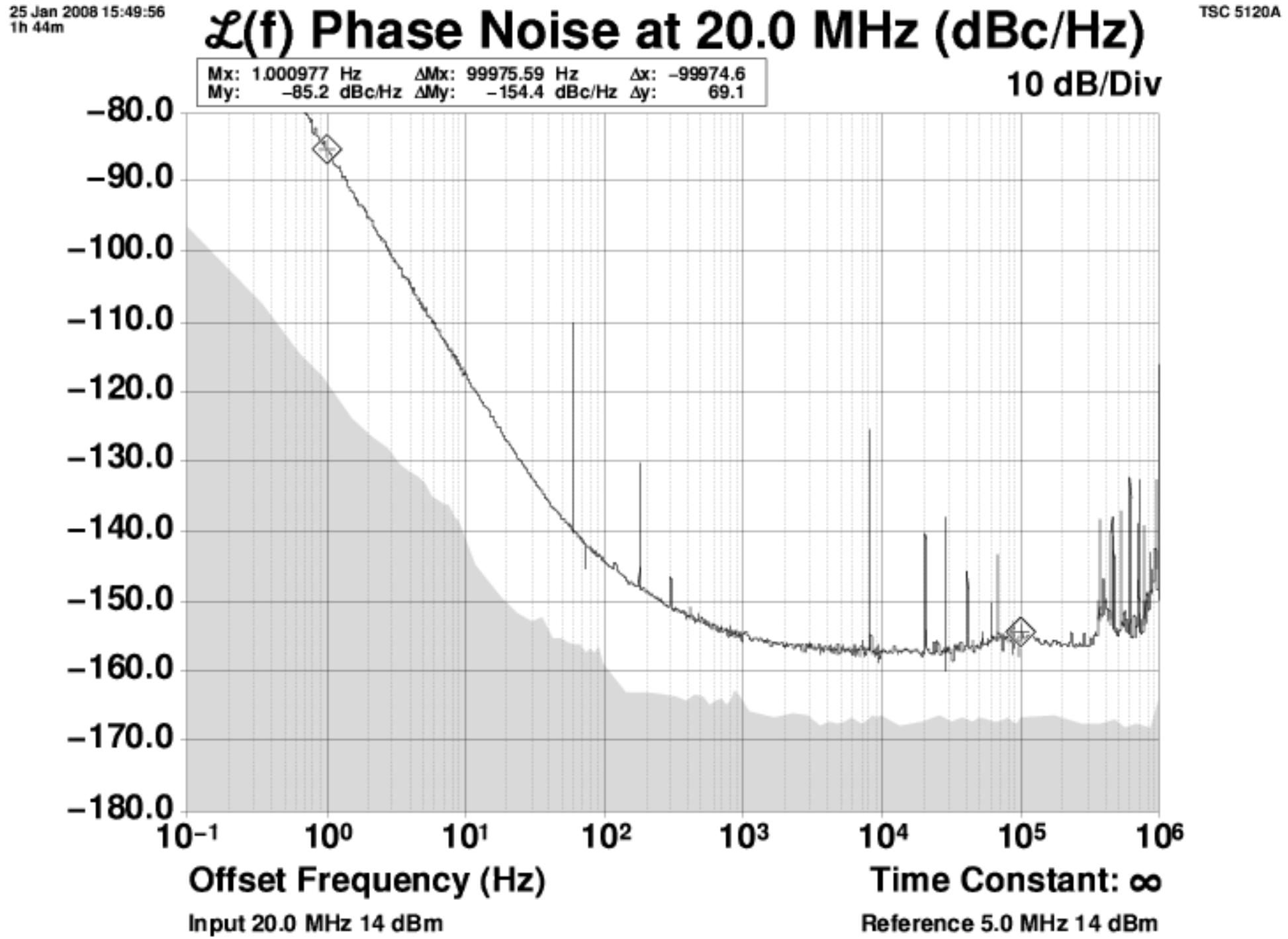
Input 20.0 MHz 14 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	19.9999992850947
10	19.99999928466922
100	19.999999283407762
1000	19.999999273626143

Reference Frequency: 5.0 MHz (auto)


25 Jan 2008 15:49:56
1h 44m
TSC 5120A
ℒ(f) Phase Noise at 20.0 MHz (dBc/Hz)
Mx: 1.000977 Hz ΔMx: 99975.59 Hz Δx: -99974.6
My: -85.2 dBc/Hz ΔMy: -154.4 dBc/Hz Δy: 69.1
10 dB/Div
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
-160.0
-170.0
-180.0
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
Offset Frequency (Hz)
Time Constant: ∞
Input 20.0 MHz 14 dBm
Reference 5.0 MHz 14 dBm