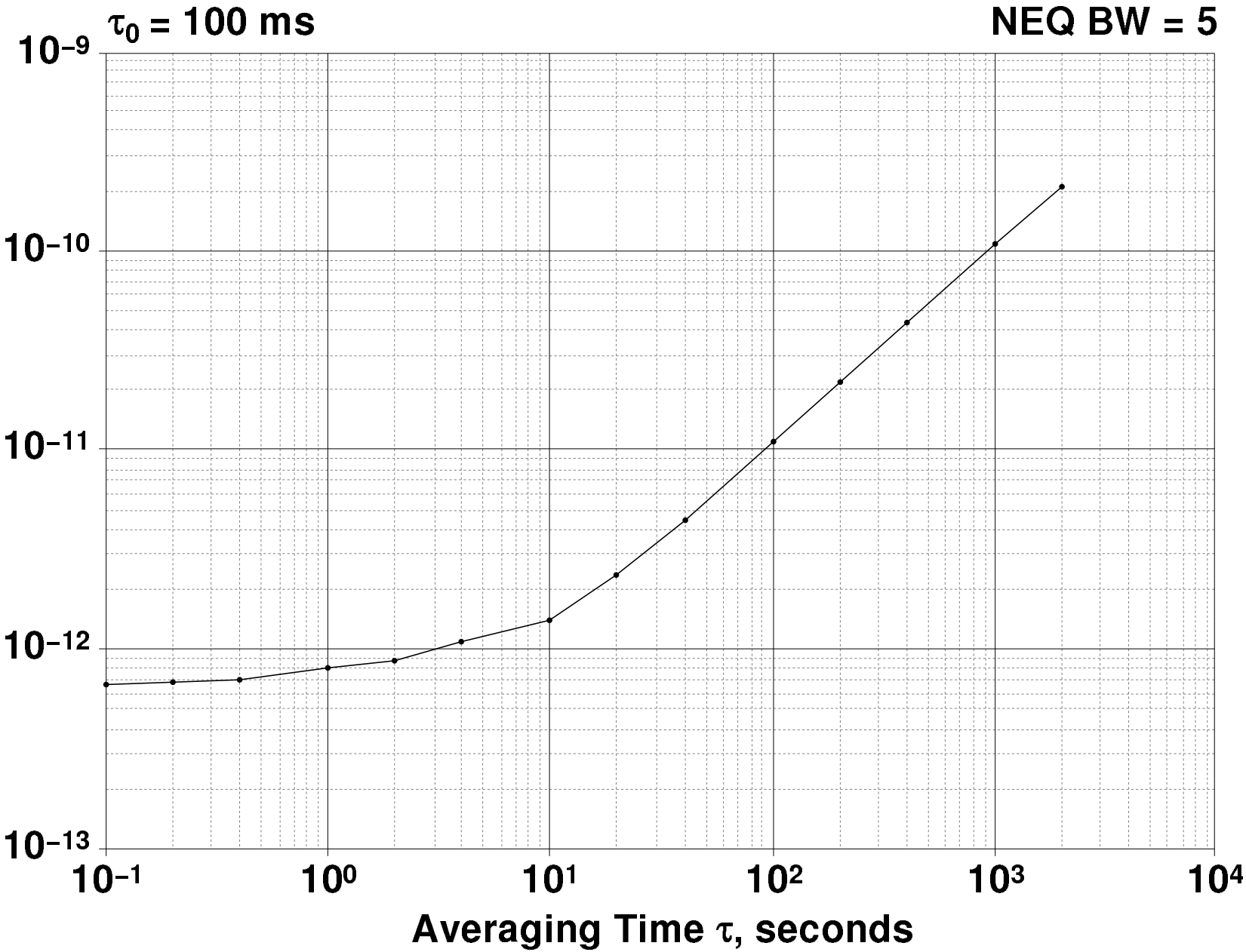
17/03/2007 20:40:06
2h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 1 dBm

Reference 5.0 MHz 13 dBm

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2h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	6.643×10^{-13}
0.2	6.845×10^{-13}
0.4	7.11×10^{-13}
1	8.04×10^{-13}
2	8.86×10^{-13}
4	1.094×10^{-12}
10	1.40×10^{-12}
20	2.37×10^{-12}
40	4.46×10^{-12}
100	1.10×10^{-11}
200	2.19×10^{-11}
400	4.3×10^{-11}
1000	1.07×10^{-10}
2000	2.1×10^{-10}

NEQ BW = 5

Input 10.0 MHz 1 dBm

Reference 5.0 MHz 13 dBm

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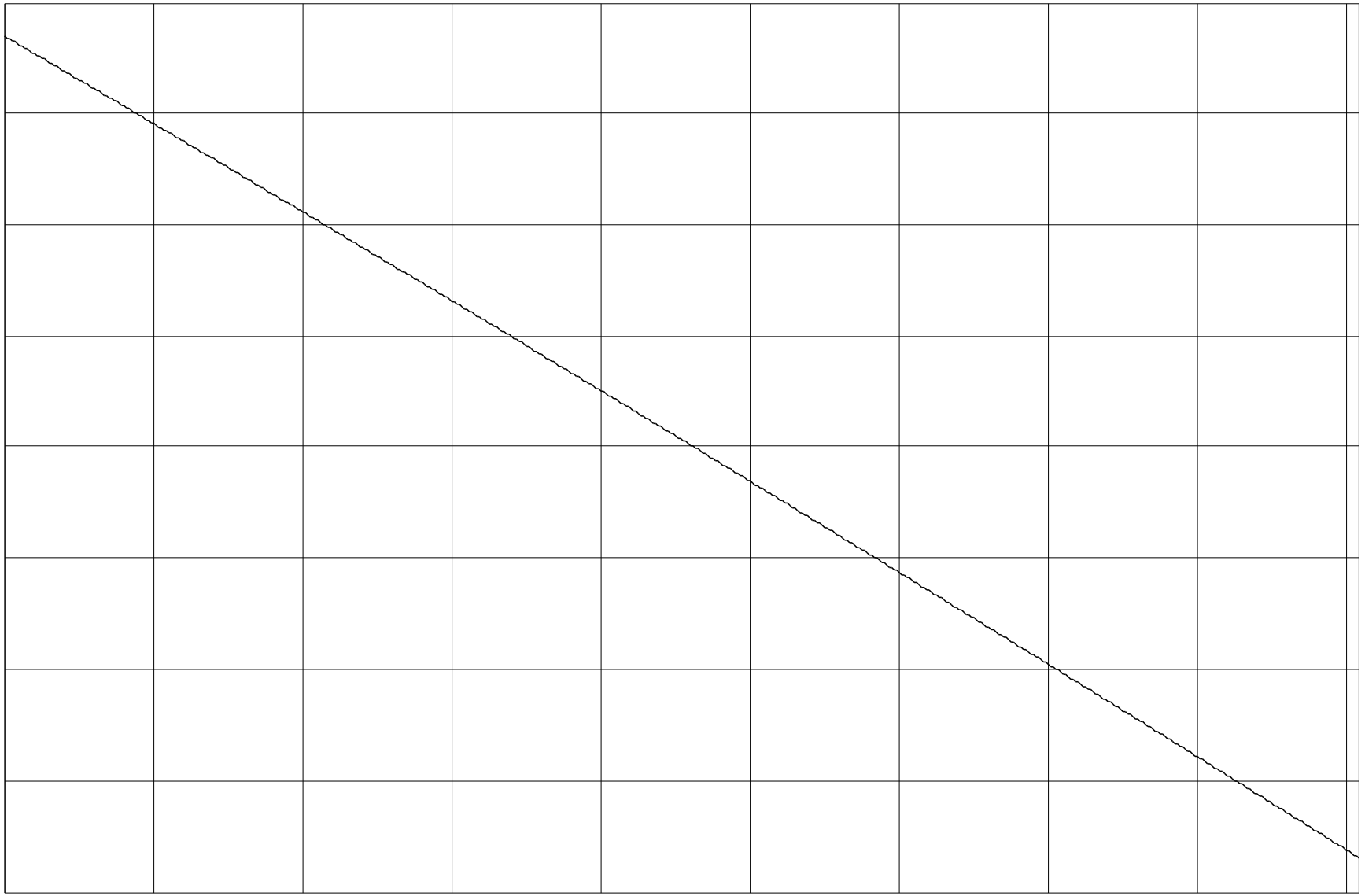
2h 0m

TSC 5120A

Phase Difference

8.0x10^{-08} s/div

Center: –3.8254x10^{-06} s



60s/div

Input 10.0 MHz 1 dBm

Reference 5.0 MHz 13 dBm

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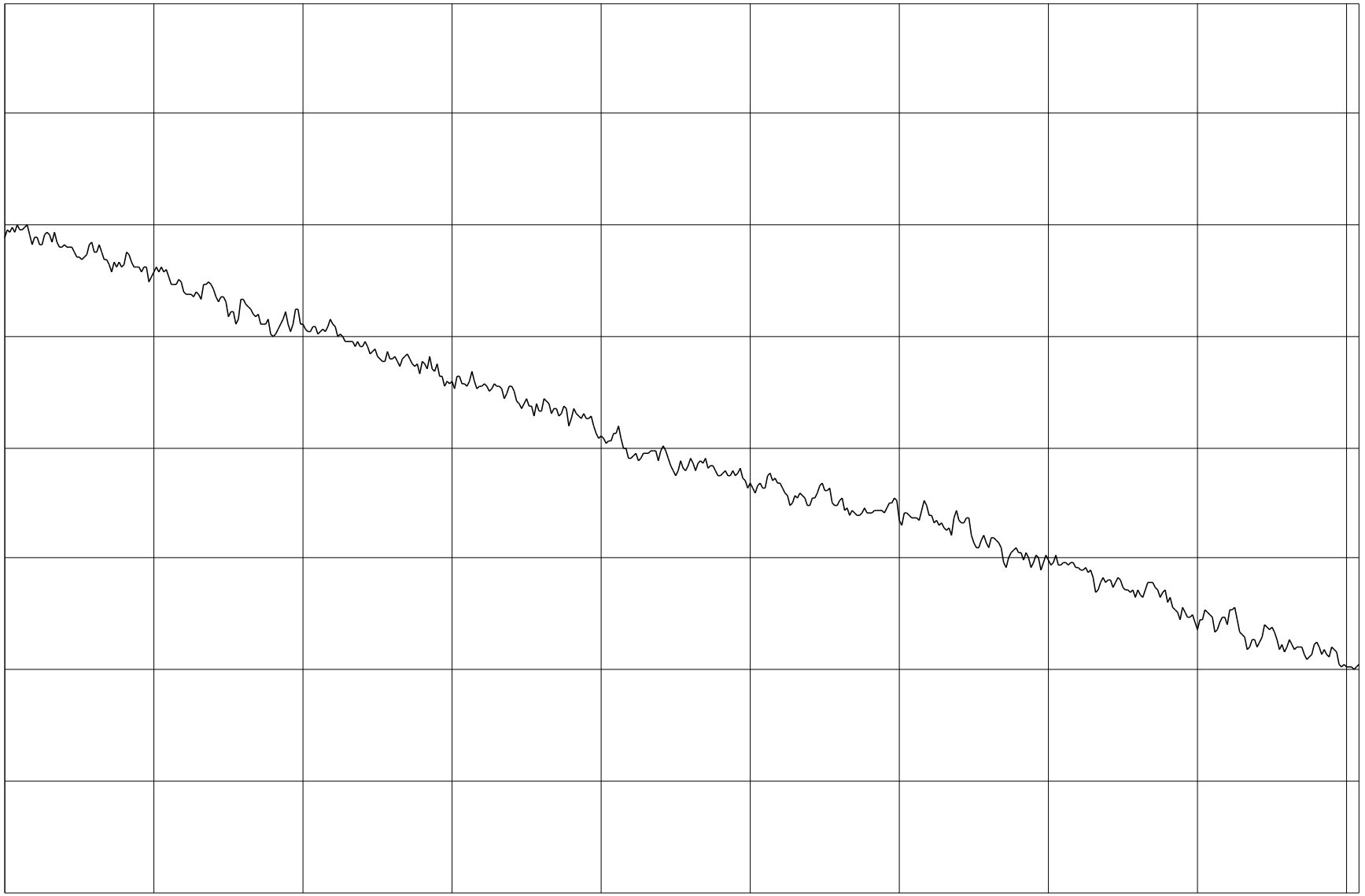
2h 0m

TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: –1.0815x10^{-09}



60s/div

Input 10.0 MHz 1 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	9.9999999196225
10	9.99999991963614
100	9.999999919572910
1000	9.999999918939797

Reference Frequency: 5.0 MHz (auto)

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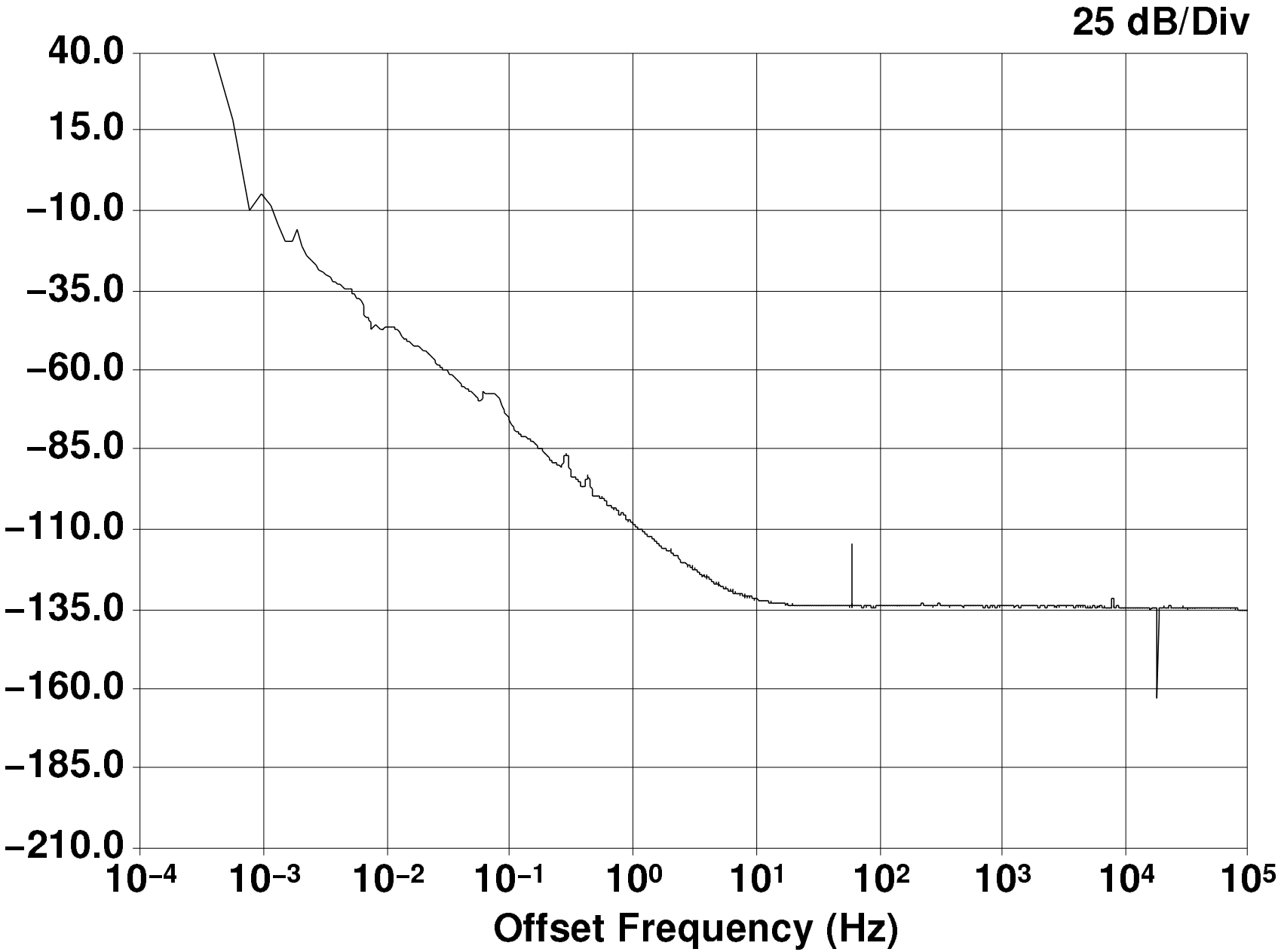
2h 0m

TSC 5120A

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



Input 10.0 MHz 1 dBm

Reference 5.0 MHz 13 dBm