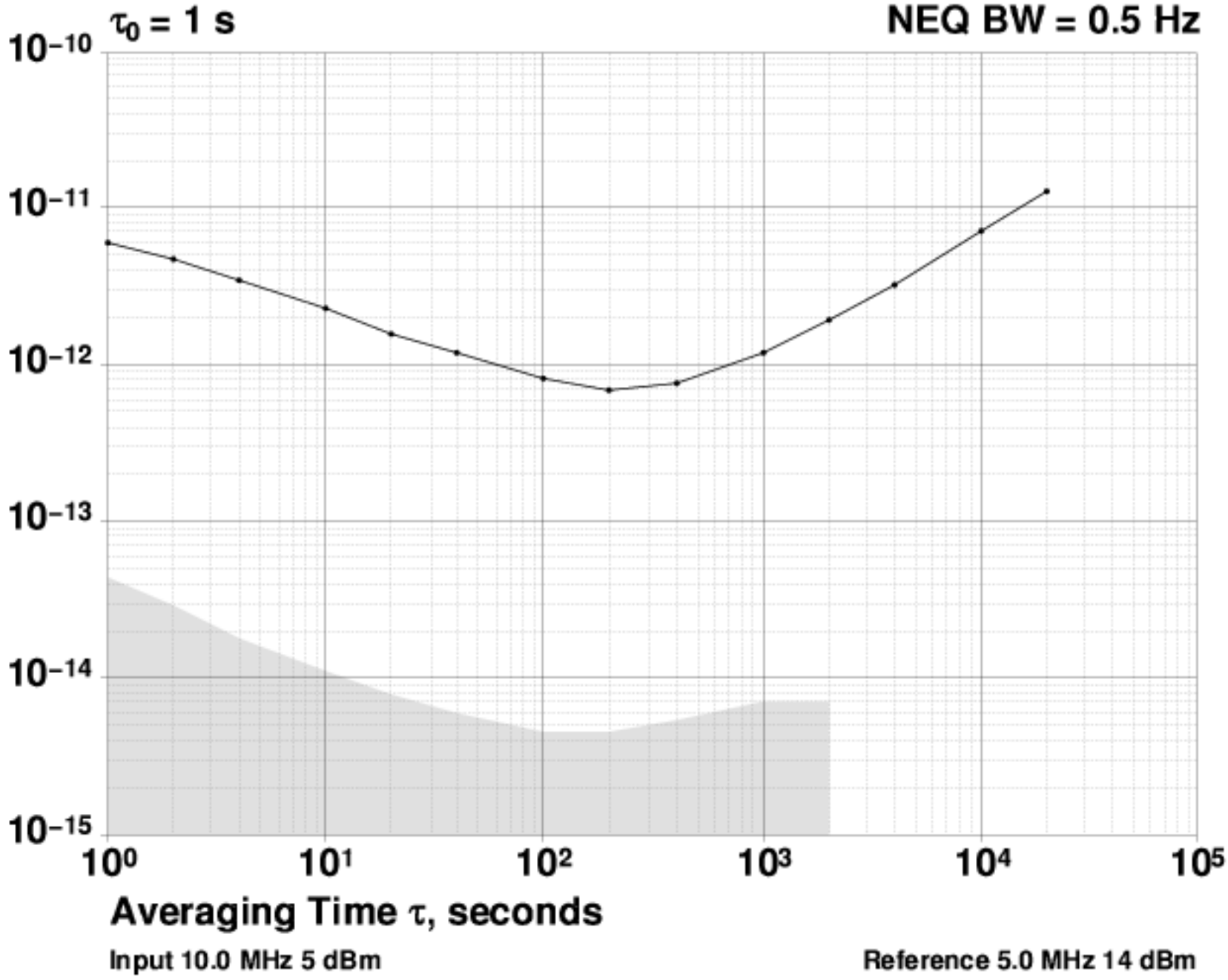
06/02/2012 09:26:57
15h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 5 dBm

Reference 5.0 MHz 14 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	5.894×10^{-12}	4.34364×10^{-14}
2	4.753×10^{-12}	2.91161×10^{-14}
4	3.463×10^{-12}	1.76701×10^{-14}
10	2.251×10^{-12}	1.10138×10^{-14}
20	1.588×10^{-12}	7.91327×10^{-15}
40	1.204×10^{-12}	5.96118×10^{-15}
100	8.20×10^{-13}	4.55494×10^{-15}
200	6.78×10^{-13}	4.57241×10^{-15}
400	7.7×10^{-13}	5.43079×10^{-15}
1000	1.18×10^{-12}	7.02246×10^{-15}
2000	1.92×10^{-12}	7.02158×10^{-15}
4000	3.2×10^{-12}	
10000	7.0×10^{-12}	
20000	1.3×10^{-11}	

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

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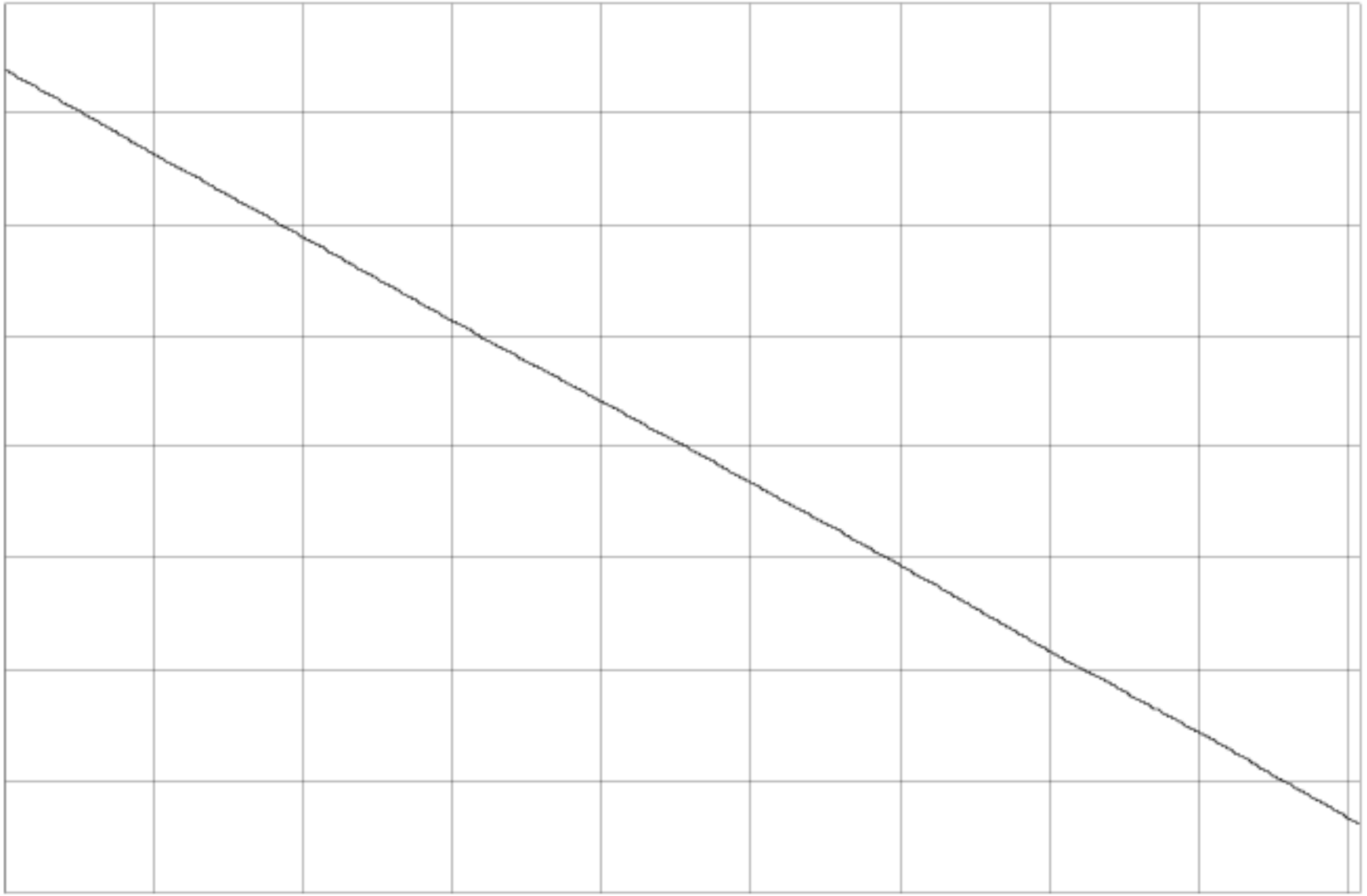
15h 0m

TSC 5120A

Phase Difference

5.0x10^{-09} s/div

Center: –2.56683x10^{-06} s



60s/div

Input 10.0 MHz 5 dBm

Reference 5.0 MHz 14 dBm

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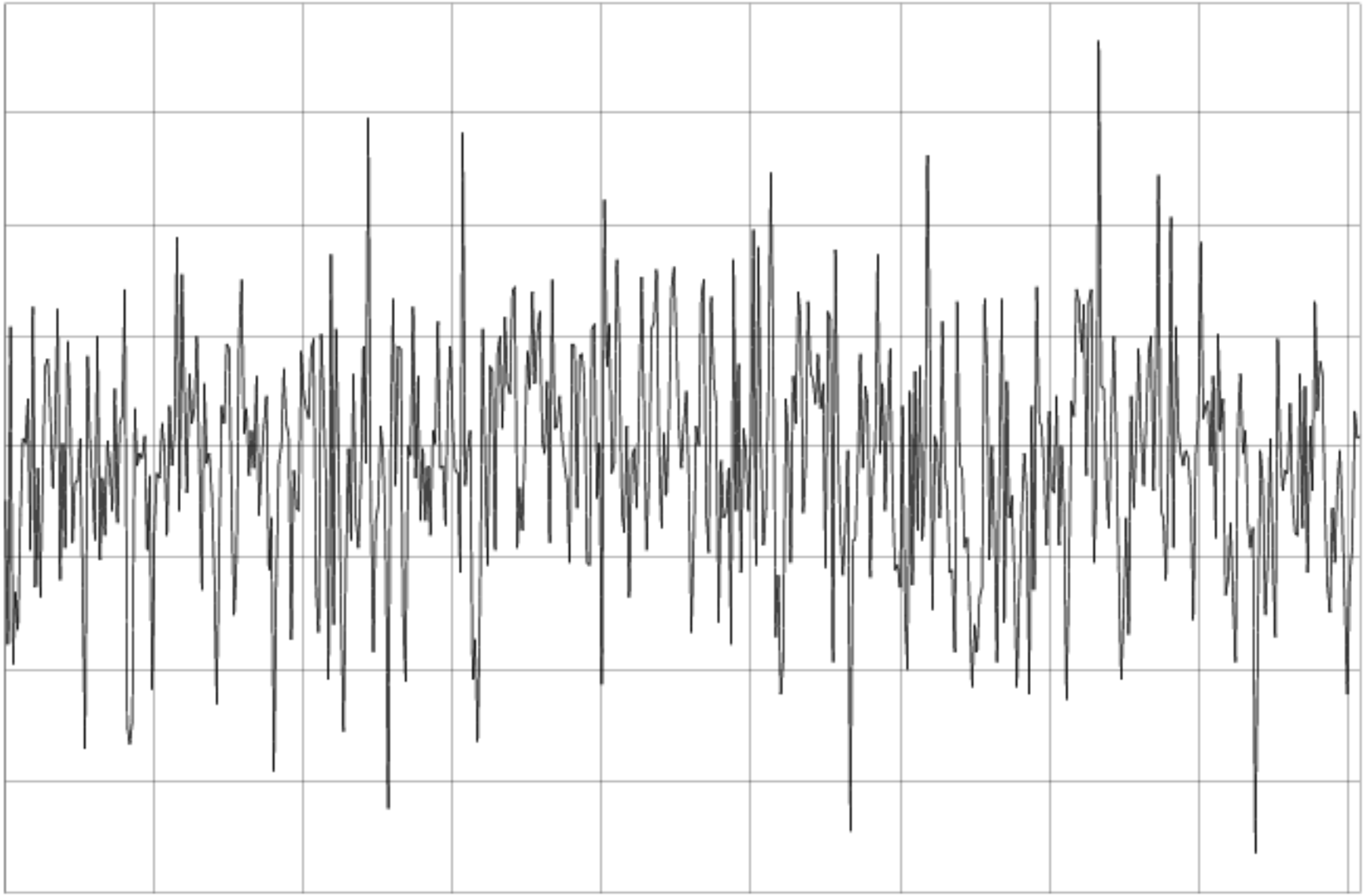
Frequency Difference

6.0x10^{-12} /div

Center: –6.128x10^{-11}



60s/div

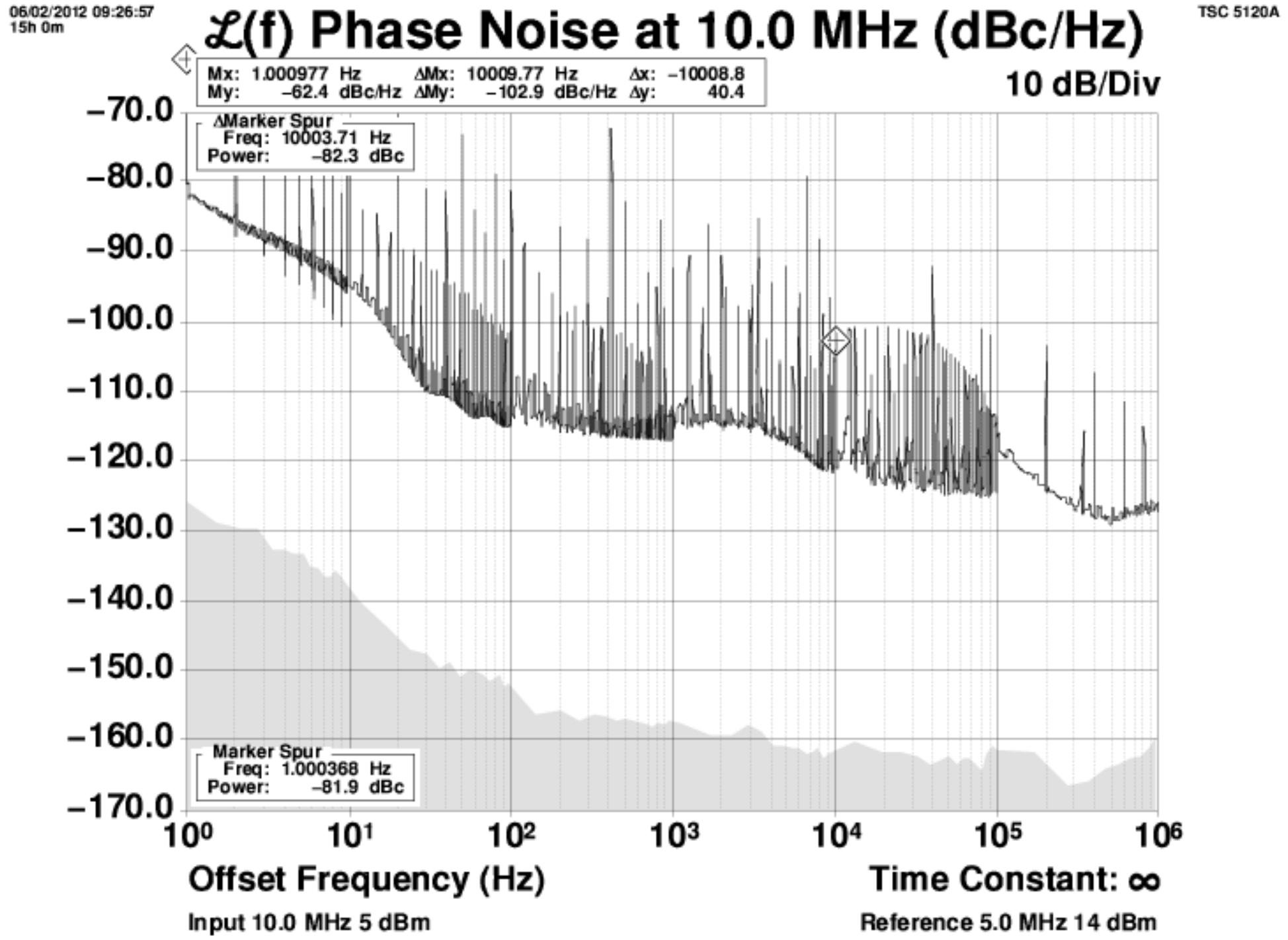
Input 10.0 MHz 5 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000069069
10	10.00000000698467
100	10.000000007013746
1000	10.000000007001390

Reference Frequency: 5.0 MHz (auto)


06/02/2012 09:26:57
15h 0m
TSC 5120A
ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)
Mx: 1.000977 Hz ΔMx: 10009.77 Hz Δx: −10008.8
My: −62.4 dBc/Hz ΔMy: −102.9 dBc/Hz Δy: 40.4
10 dB/Div
ΔMarker Spur
Freq: 10003.71 Hz
Power: −82.3 dBc
Marker Spur
Freq: 1.000368 Hz
Power: −81.9 dBc
−70.0
−80.0
−90.0
−100.0
−110.0
−120.0
−130.0
−140.0
−150.0
−160.0
−170.0
10^0
10^1
10^2
10^3
10^4
10^5
10^6
Offset Frequency (Hz)
Time Constant: ∞
Input 10.0 MHz 5 dBm
Reference 5.0 MHz 14 dBm