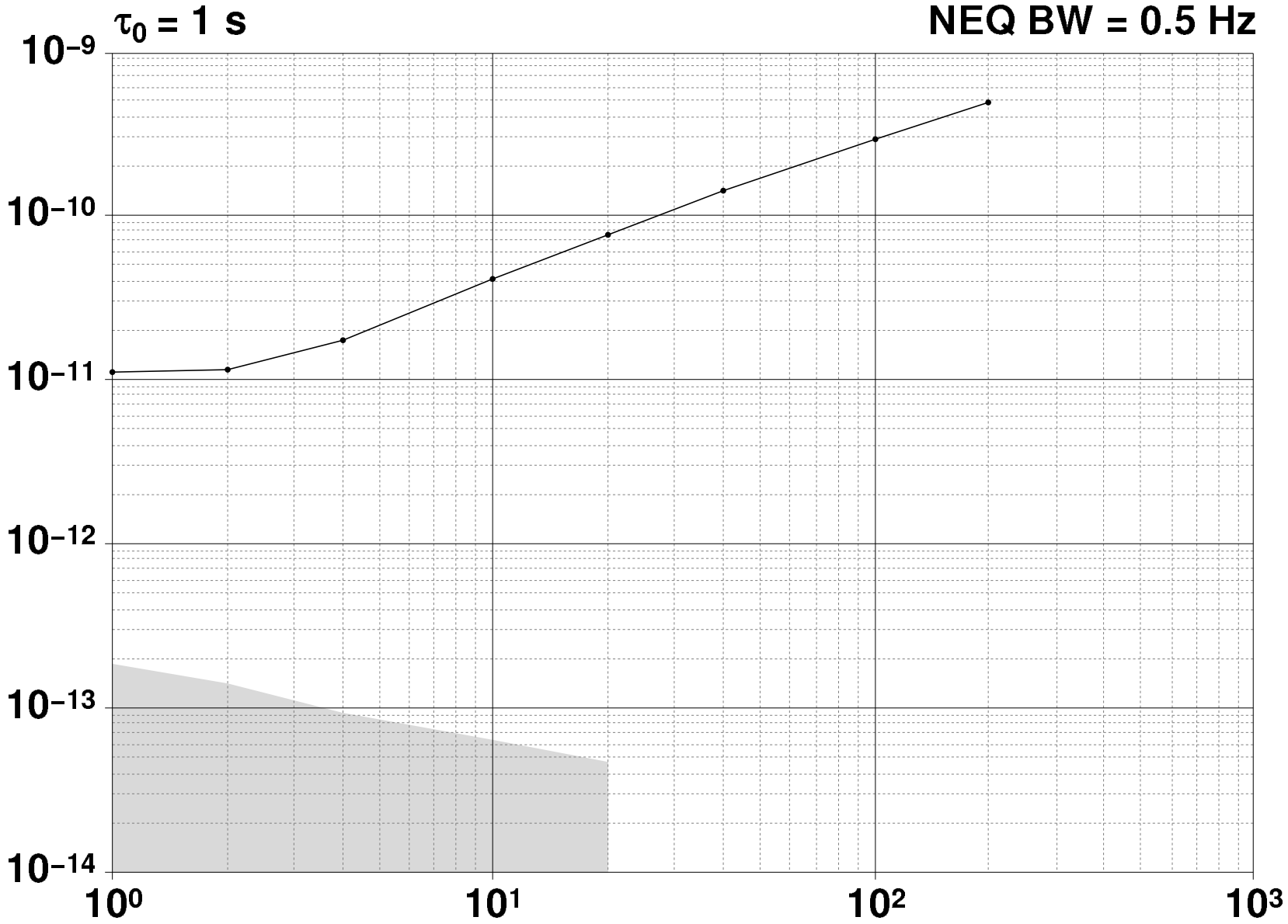
08/02/2012 00:26:14
9m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 16 dBm

Reference 5.0 MHz 14 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	1.101×10^{-11}	1.87463×10^{-13}
2	1.16×10^{-11}	1.43125×10^{-13}
4	1.72×10^{-11}	9.37990×10^{-14}
10	4.0×10^{-11}	6.34595×10^{-14}
20	7.7×10^{-11}	4.64102×10^{-14}
40	1.42×10^{-10}	
100	2.9×10^{-10}	
200	4.9×10^{-10}	

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

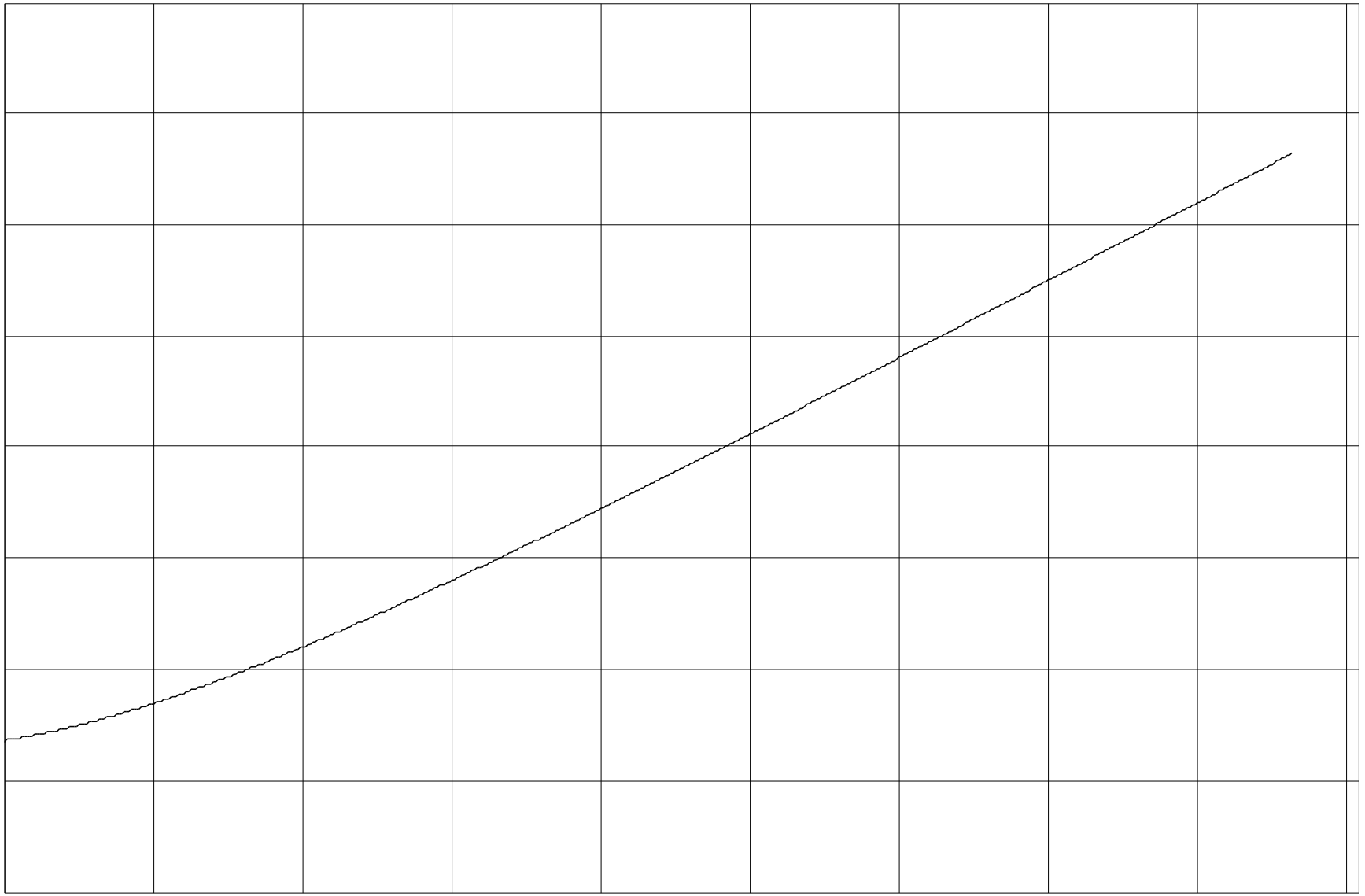
08/02/2012 00:26:14
9m

TSC 5120A

Phase Difference

2.0x10^{-07} s/div

Center: 5.416x10^{-07} s



60s/div

Input 10.0 MHz 16 dBm

Reference 5.0 MHz 14 dBm

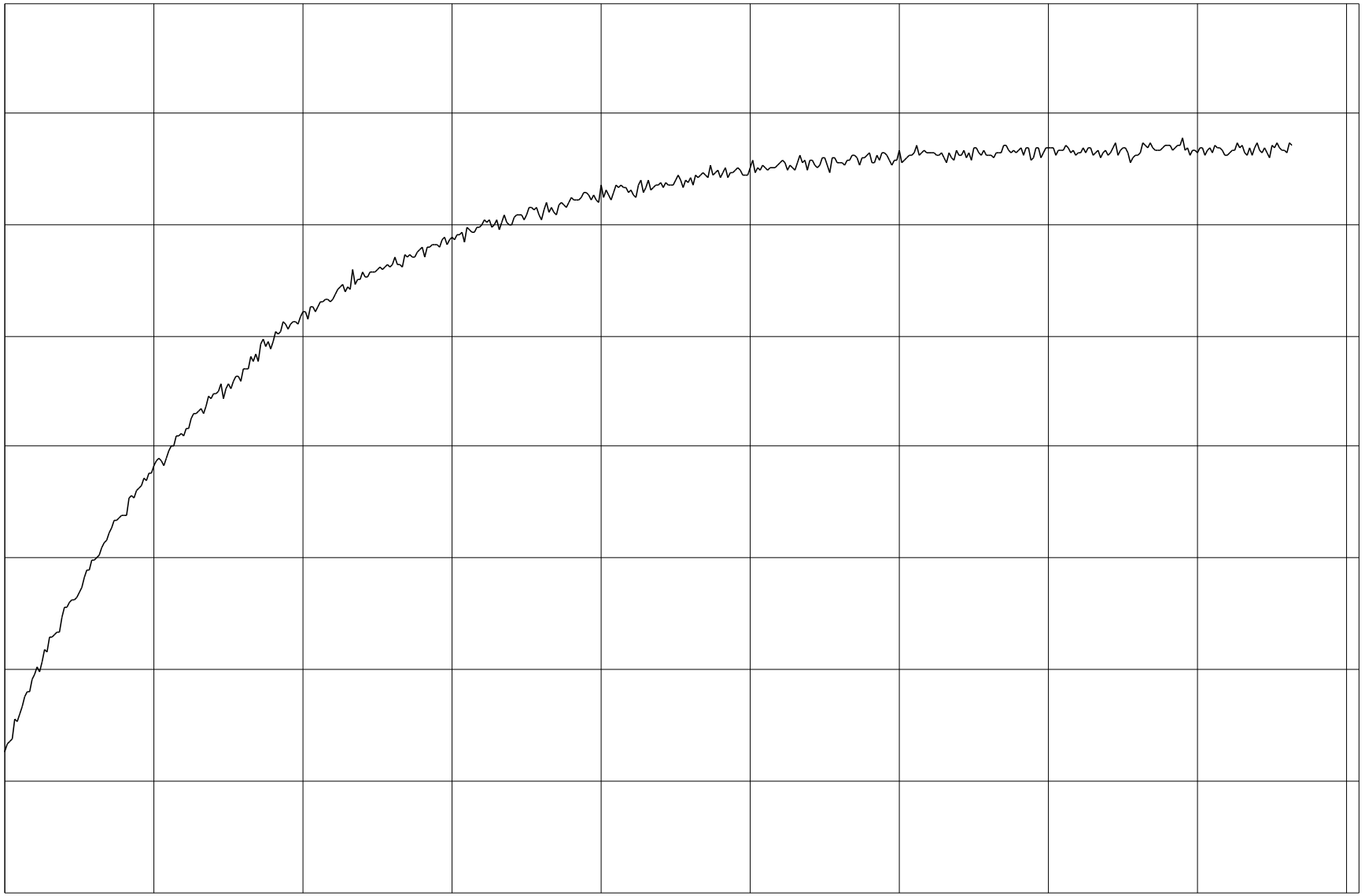
08/02/2012 00:26:14
9m

TSC 5120A

Frequency Difference

3.0x10^{-10} /div

Center: 1.520x10^{-09}



60s/div

Input 10.0 MHz 16 dBm

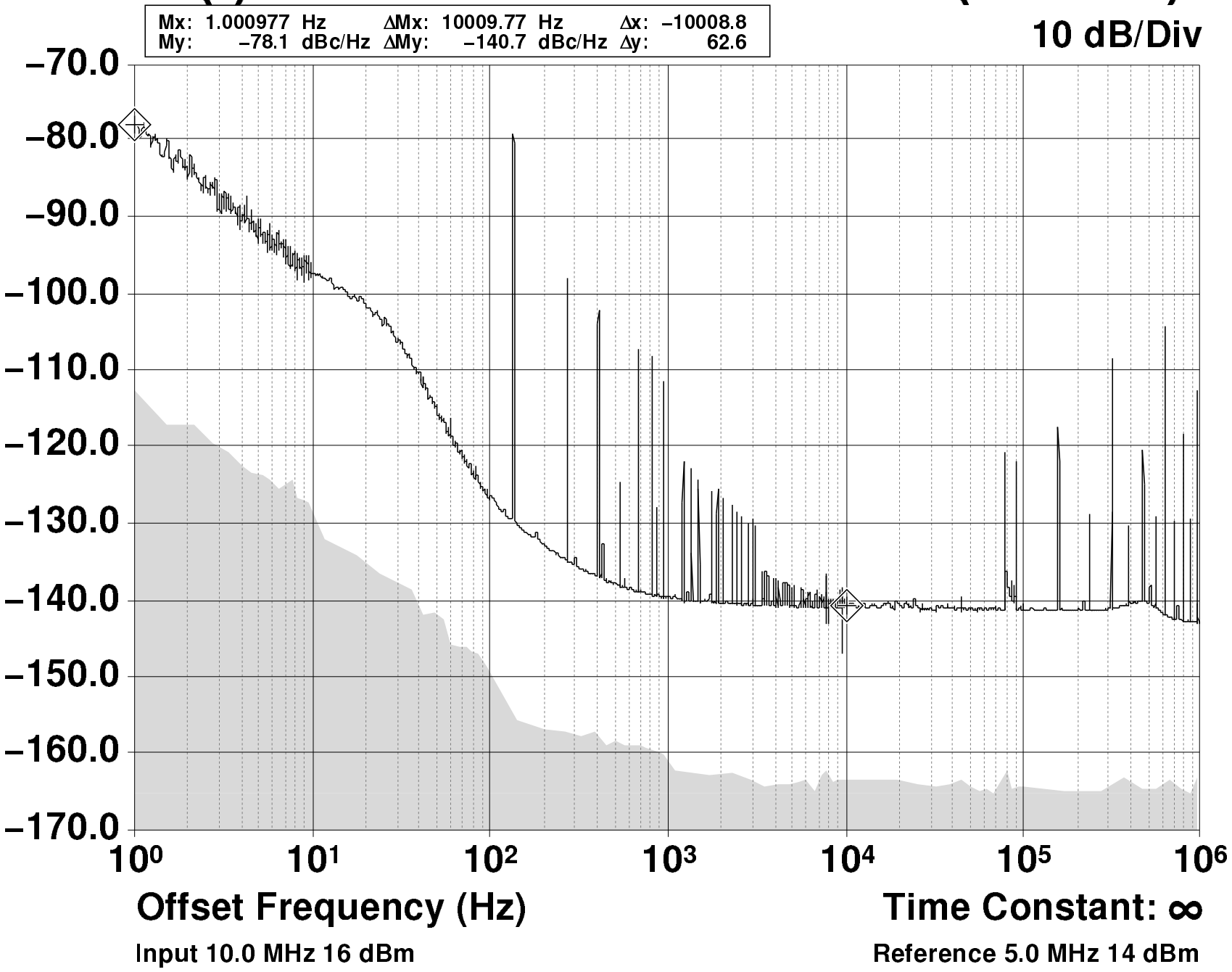
Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000019206
10	10.00000000197561
100	10.000000002026098

Reference Frequency: 5.0 MHz (auto)

08/02/2012 00:26:14
9m

TSC 5120A

ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)