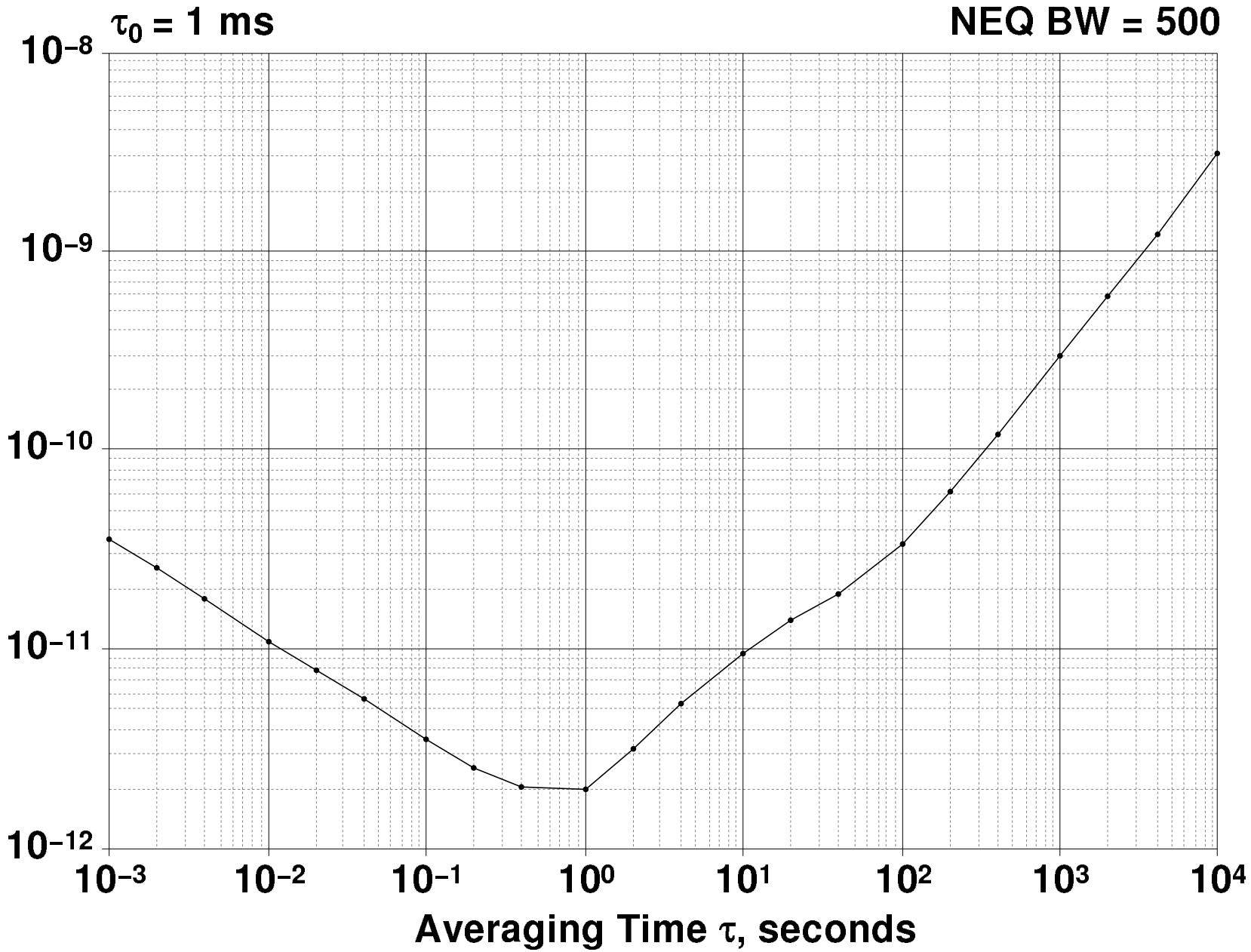
16/06/2007 19:37:20
6h 34m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm

16/06/2007 19:37:20
6h 34m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 1 ms

NEQ BW = 500

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.001	3.6145×10^{-11}
0.002	2.5427×10^{-11}
0.004	1.7852×10^{-11}
0.01	1.1057×10^{-11}
0.02	7.862×10^{-12}
0.04	5.592×10^{-12}
0.1	3.552×10^{-12}
0.2	2.555×10^{-12}
0.4	2.027×10^{-12}
1	1.985×10^{-12}
2	3.142×10^{-12}
4	5.29×10^{-12}
10	9.62×10^{-12}
20	1.387×10^{-11}
40	1.89×10^{-11}
100	3.41×10^{-11}
200	6.2×10^{-11}
400	1.20×10^{-10}
1000	3.0×10^{-10}
2000	6.0×10^{-10}
4000	1.21×10^{-9}
10000	3.1×10^{-9}

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm

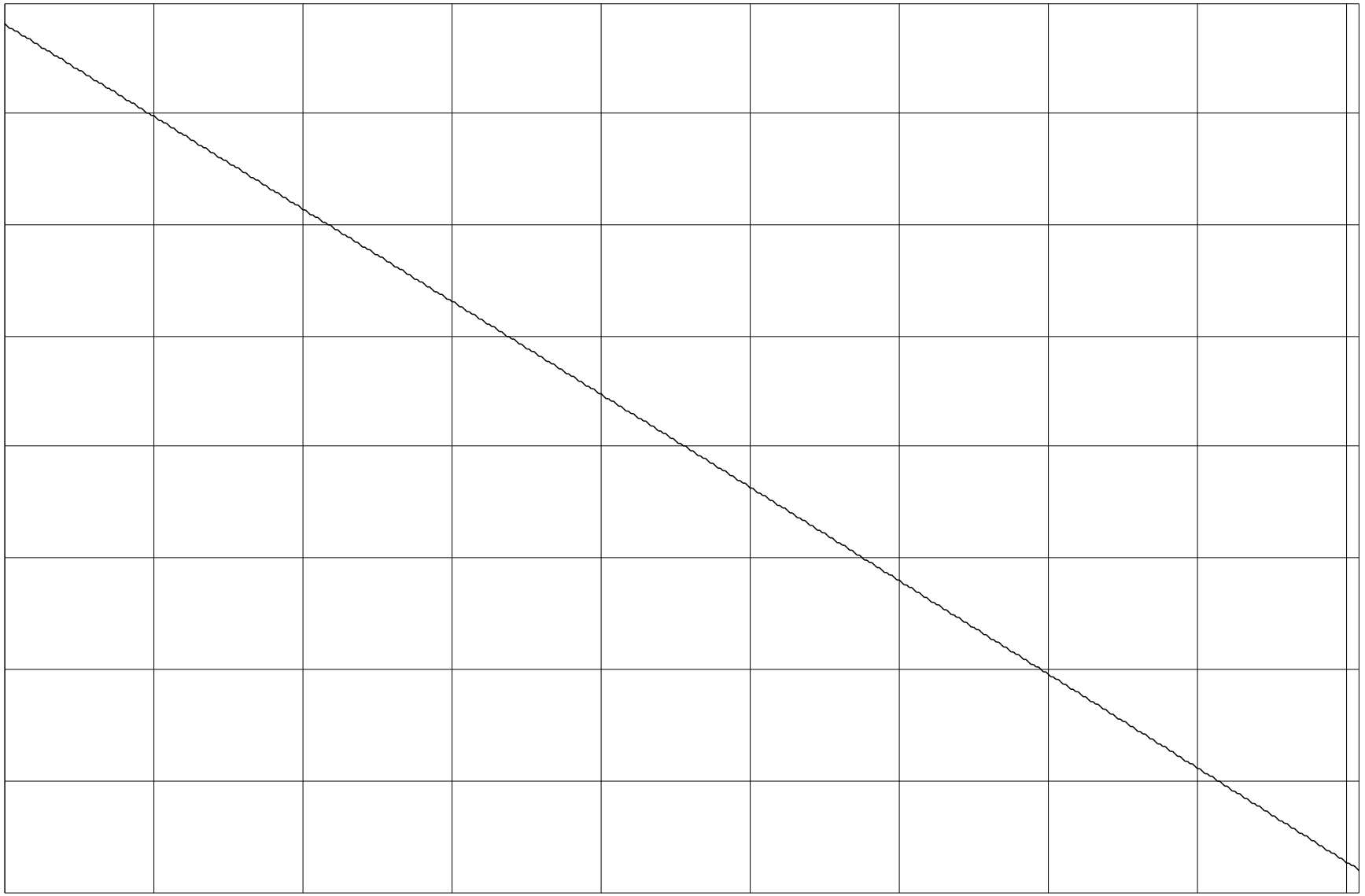
16/06/2007 19:37:20
6h 34m

TSC 5120A

Phase Difference

7.0x10^{-07} s/div

Center: –1.18802x10^{-04} s



60s/div

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm

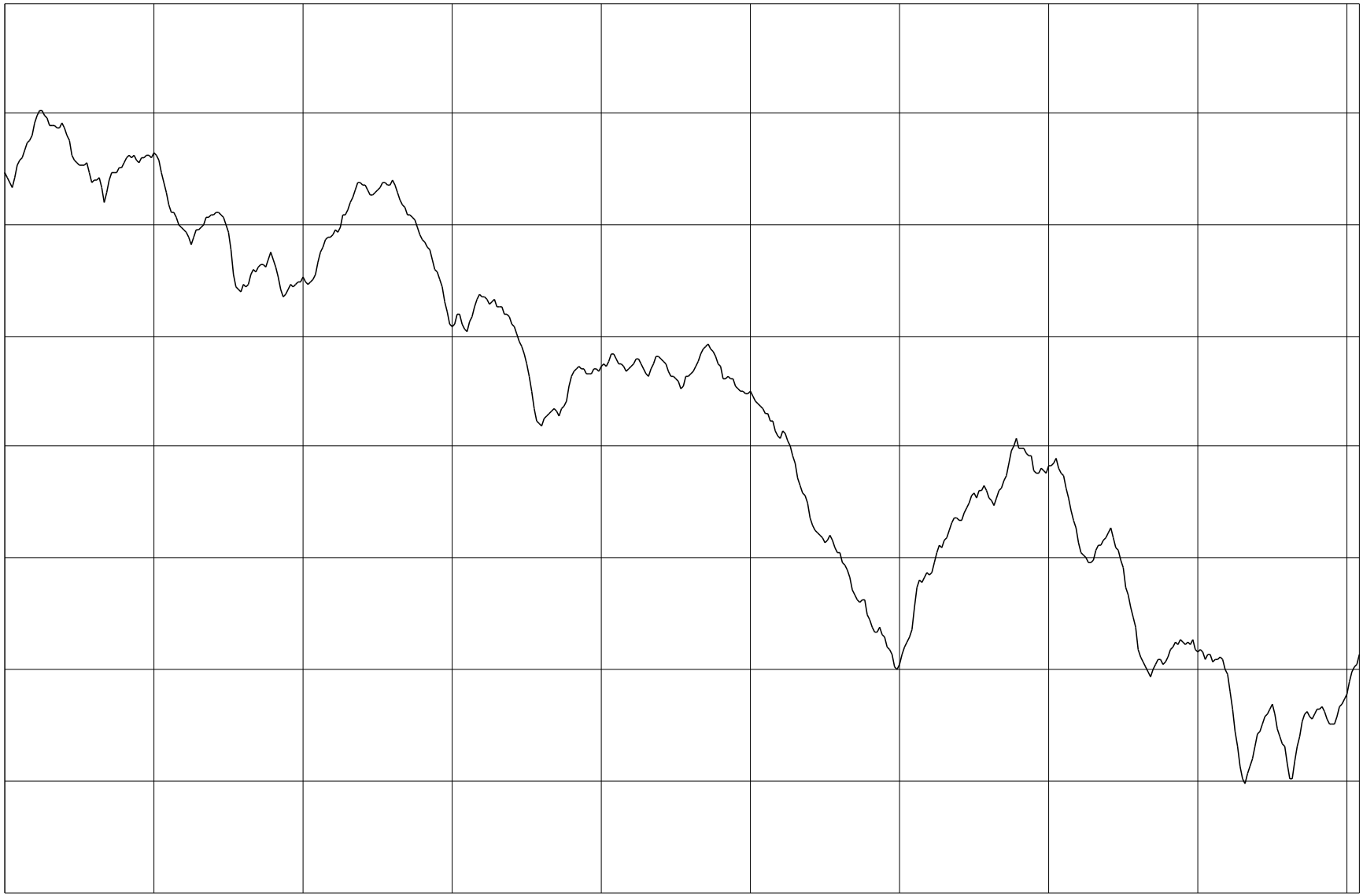
16/06/2007 19:37:20
6h 34m

TSC 5120A

Frequency Difference

4.0x10^{-11} /div

Center: –9.7563x10^{-09}



60s/div

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm

16/06/2007 19:37:20
6h 34m

Frequency Counter

TSC 5120A

Sample Time (s)	Frequency (MHz)
1	4.9999999366370
10	4.99999993666017
100	4.999999936811534
1000	4.999999935910069

Reference Frequency: 5.0 MHz (auto)

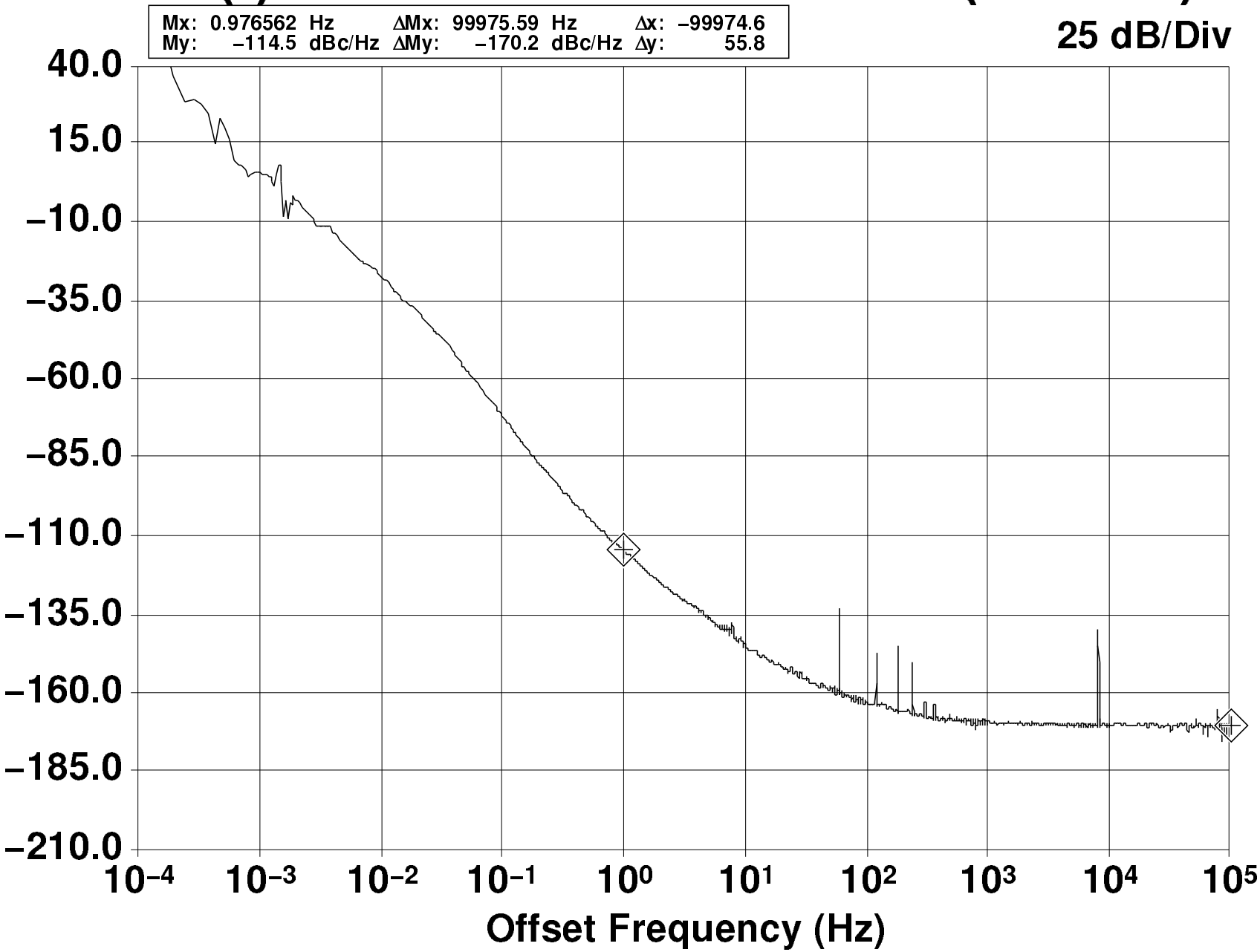
Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm

16/06/2007 19:37:20
6h 34m

TSC 5120A

$\mathcal{L}$(f) Phase Noise at 5.0 MHz (dBc/Hz)



Input 5.0 MHz 14 dBm

Reference 5.0 MHz 15 dBm