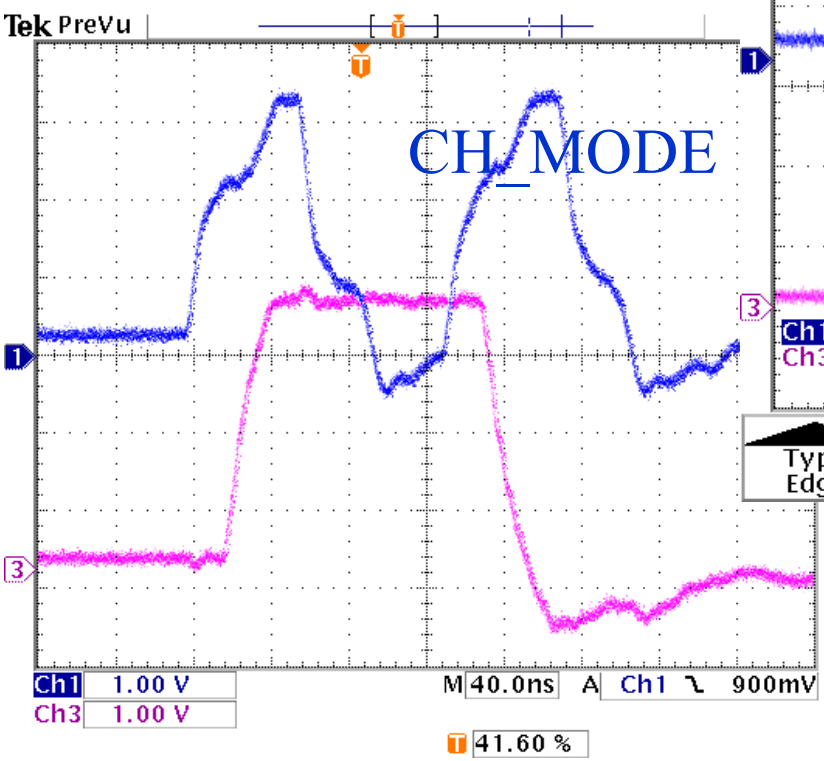
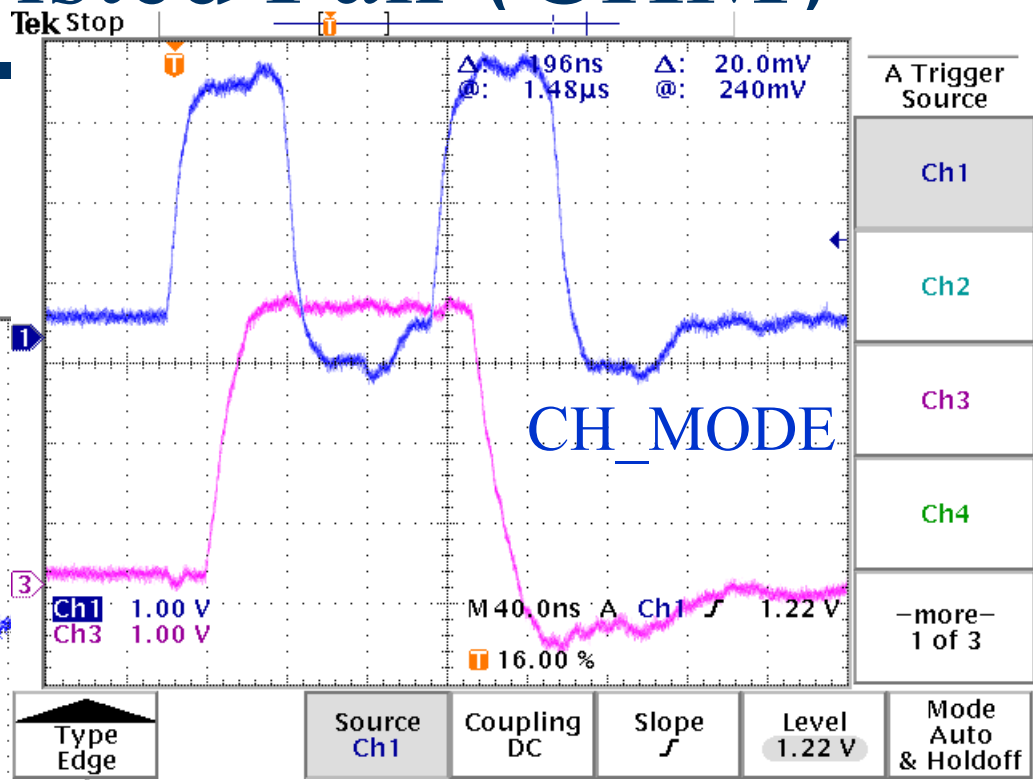
Terminations for Full Chain

S.Burdin (FNAL)

Double Twisted Pair VS. Single Twisted Pair (CHM)

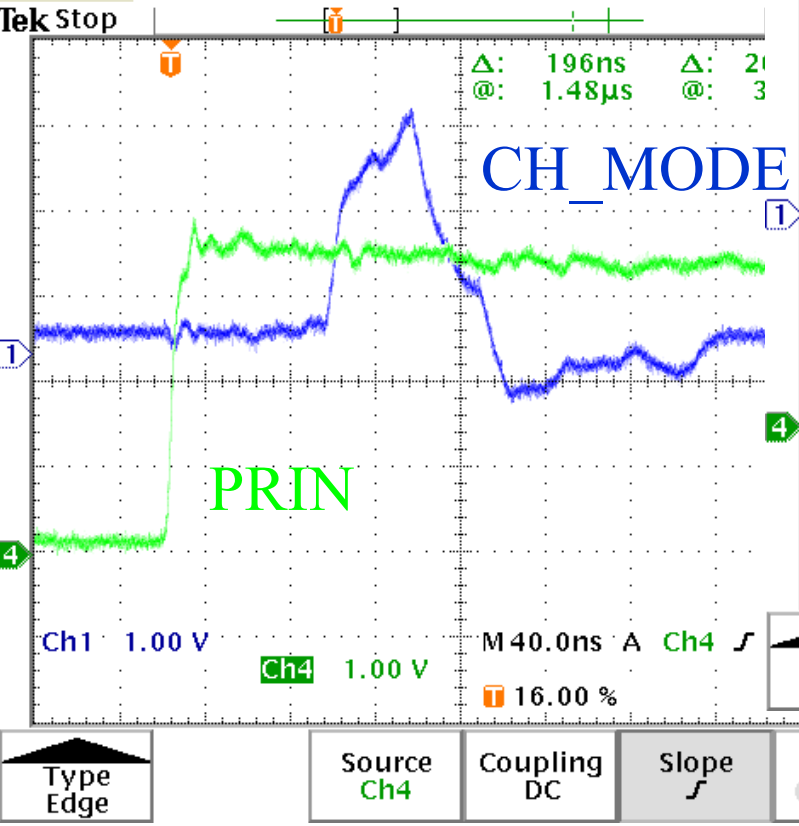
Single

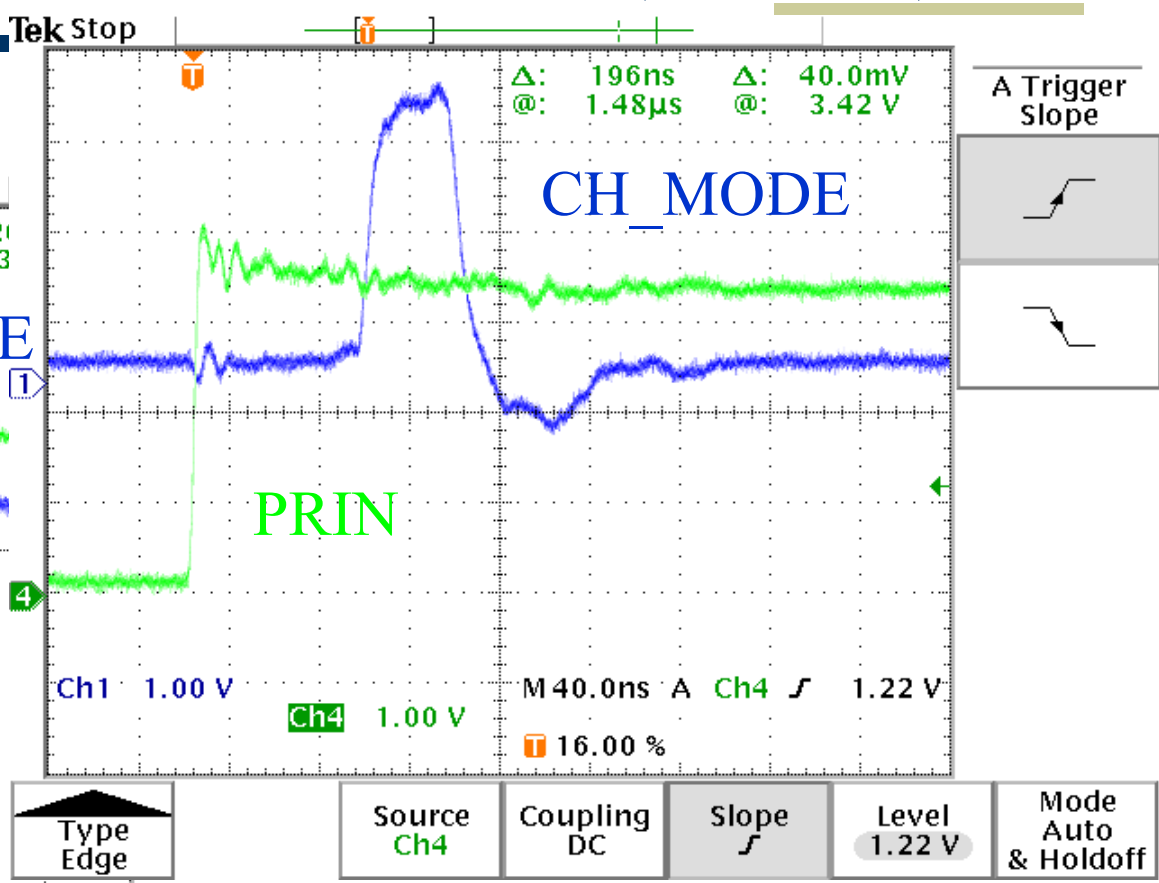




Double

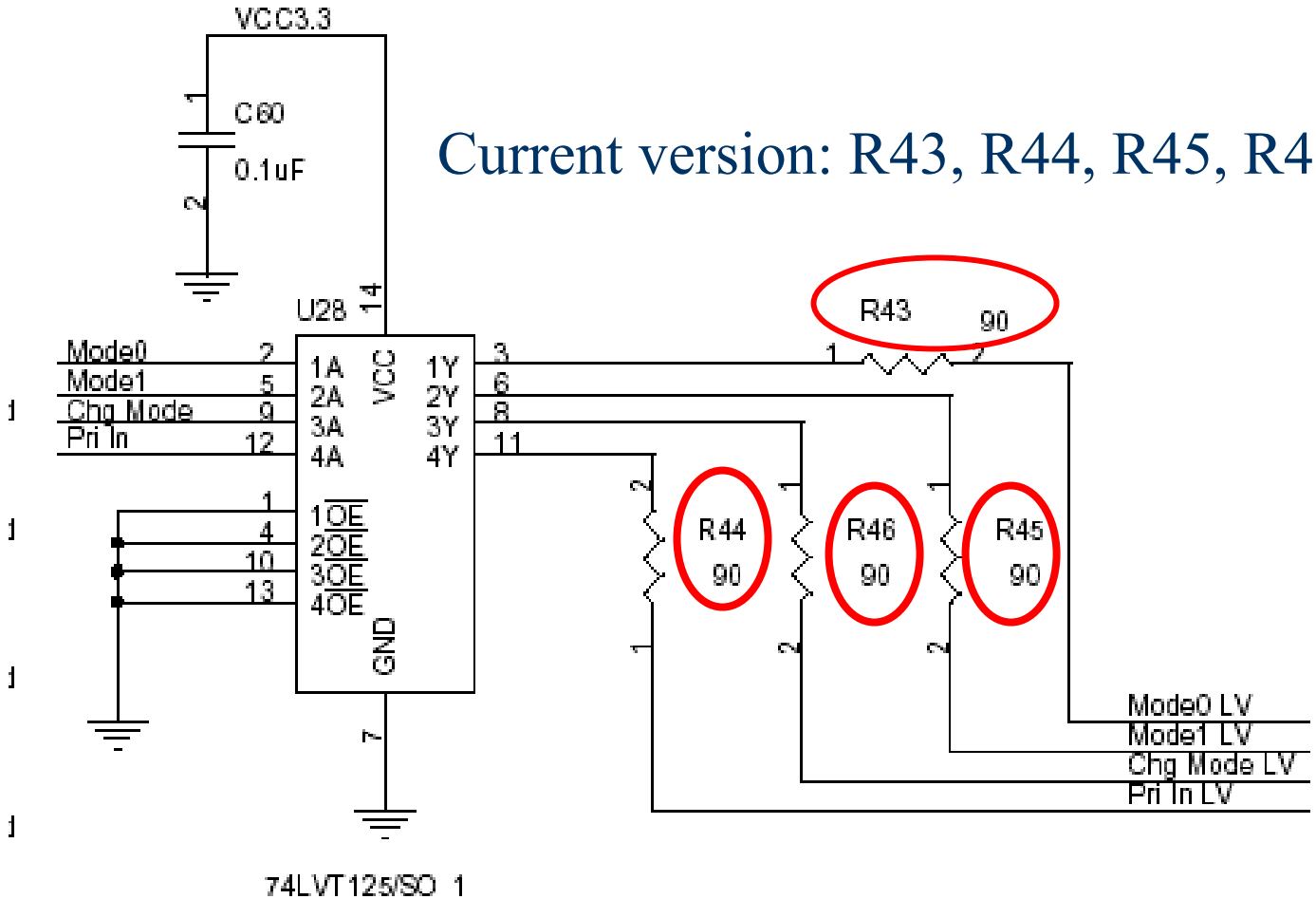
Double Twisted Pair VS. Single Twisted Pair (PRIN)



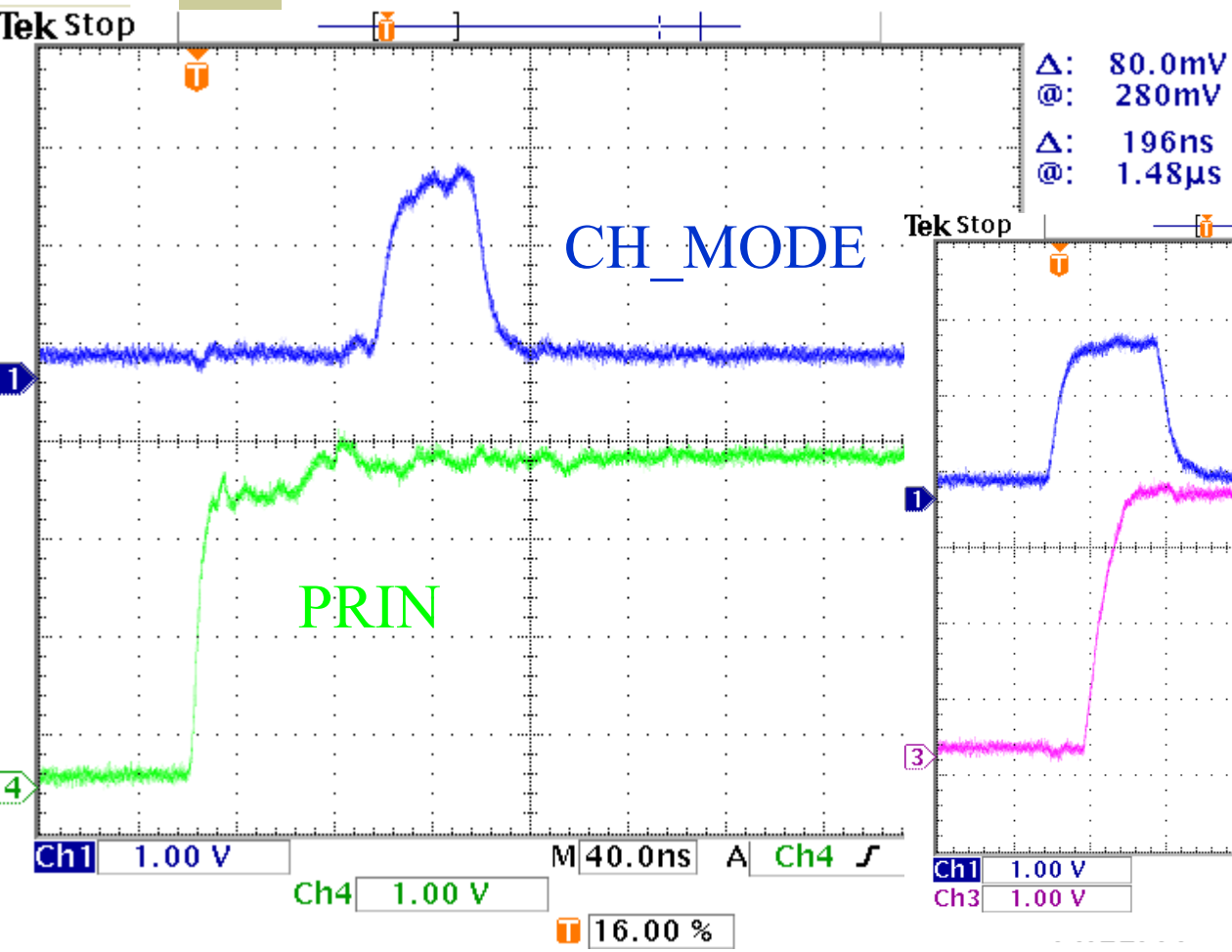


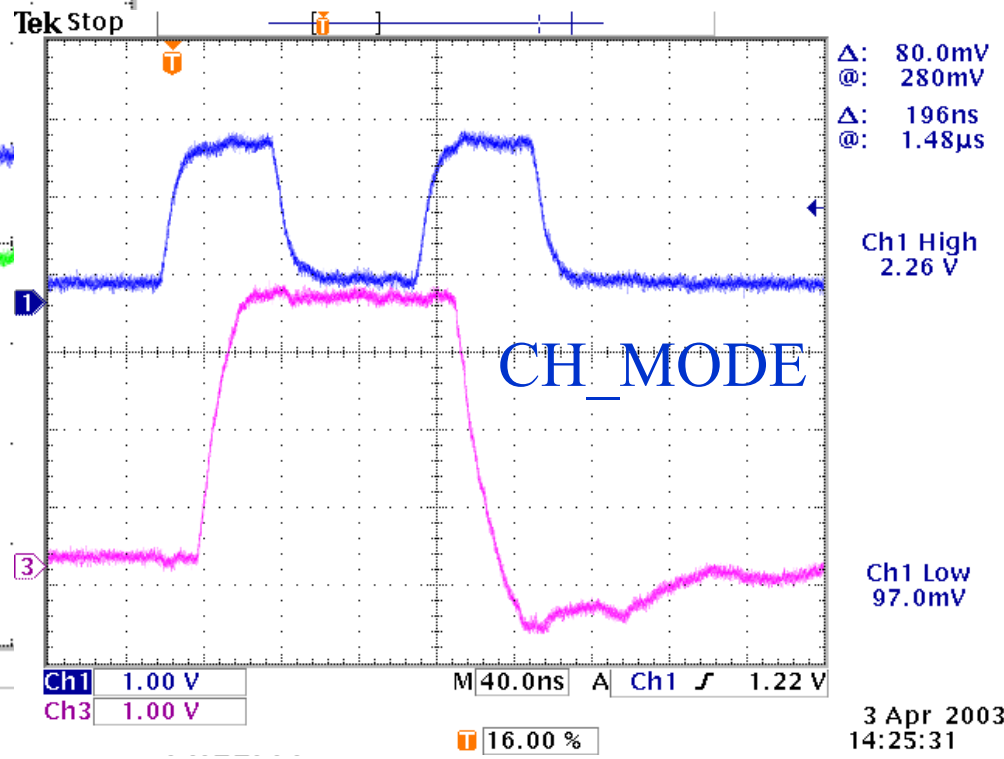
Terminations on AC

Current version: R43, R44, R45, R46 = 0

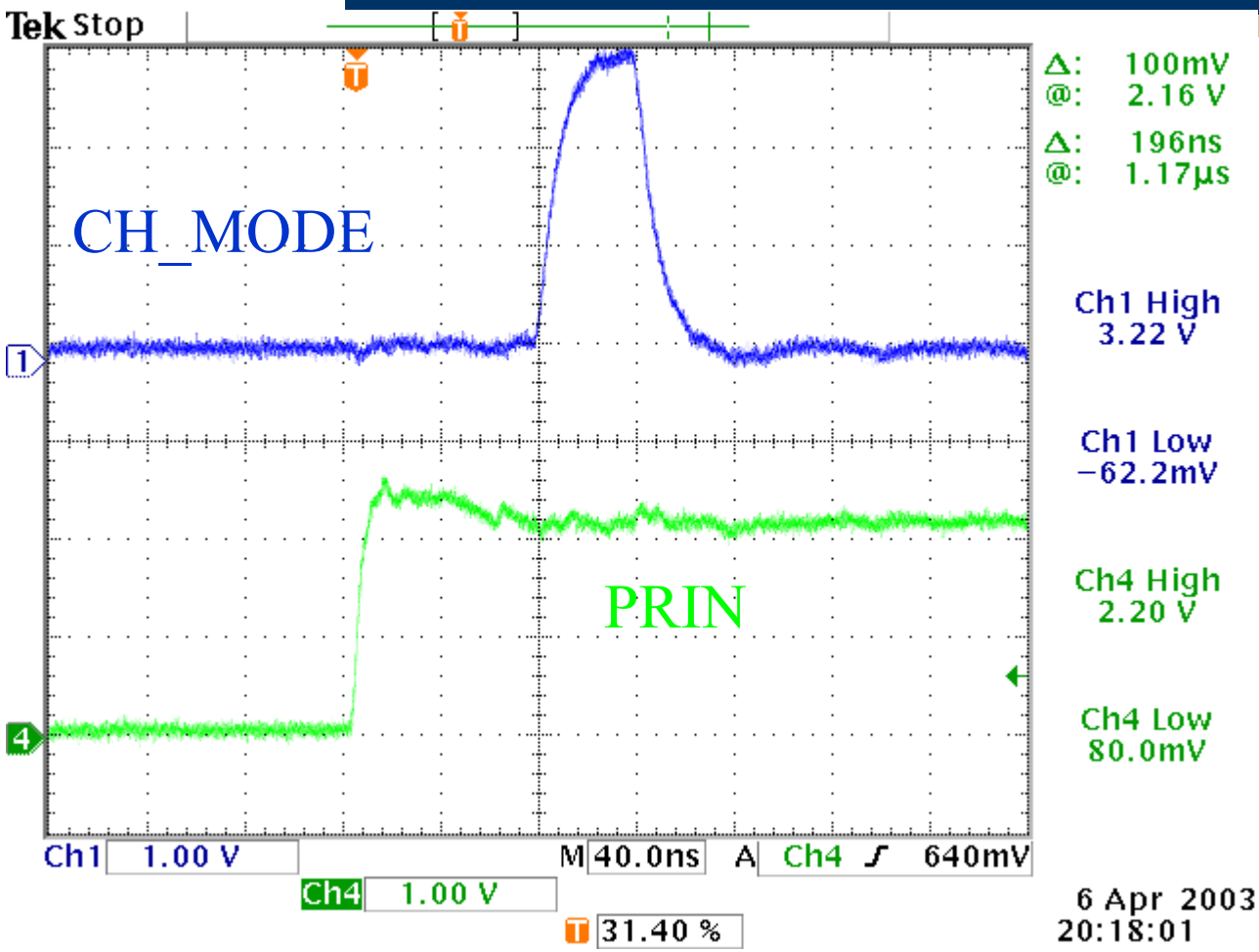


R44, R46 = 56 Ohm

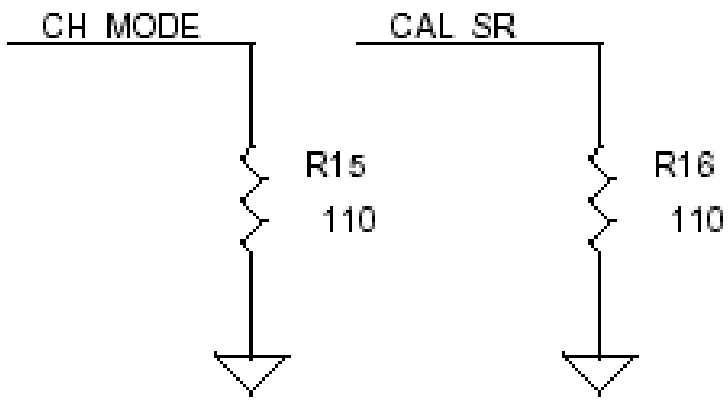




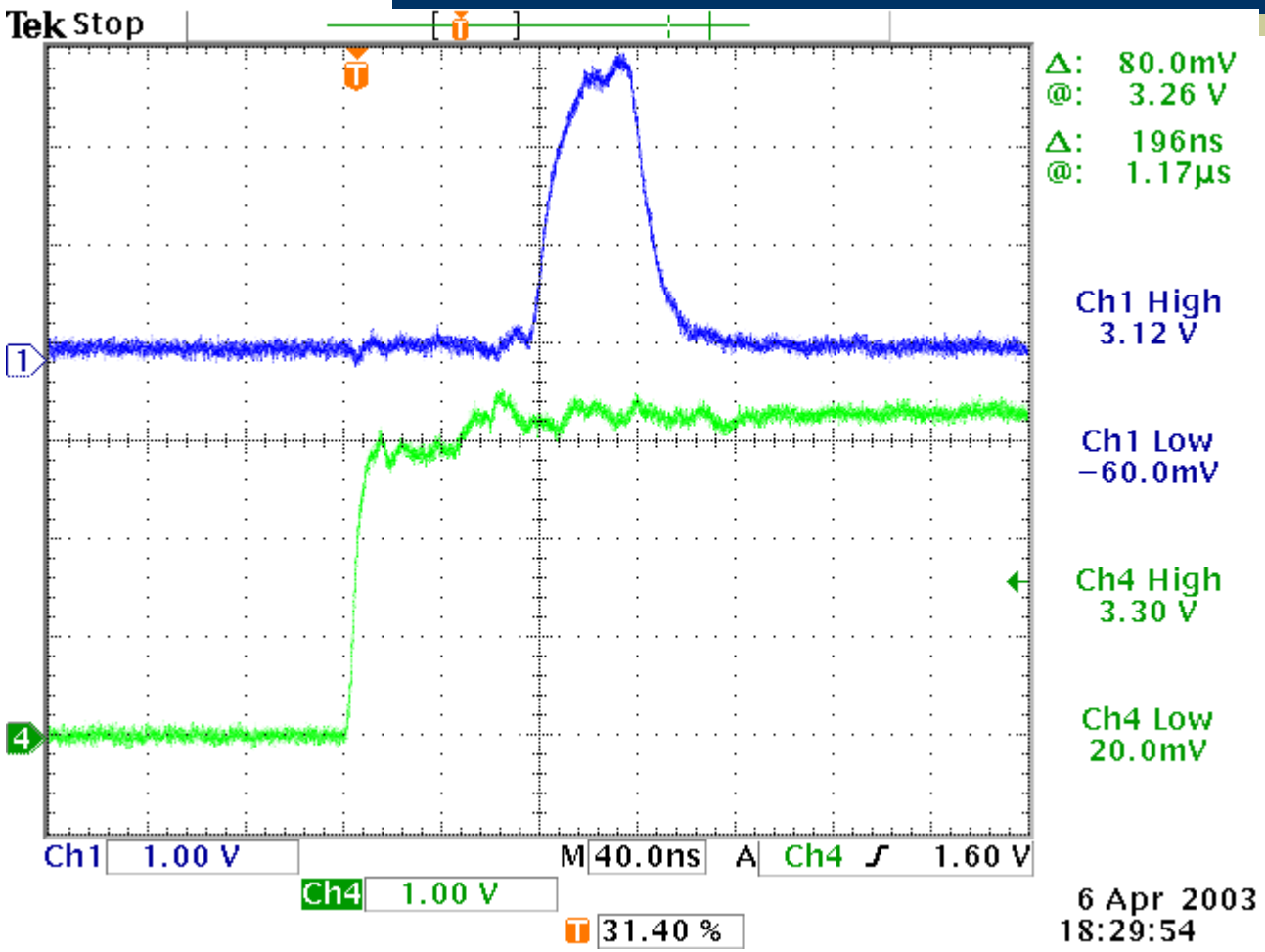
R44 = 50Ω + 125Ω to Ground



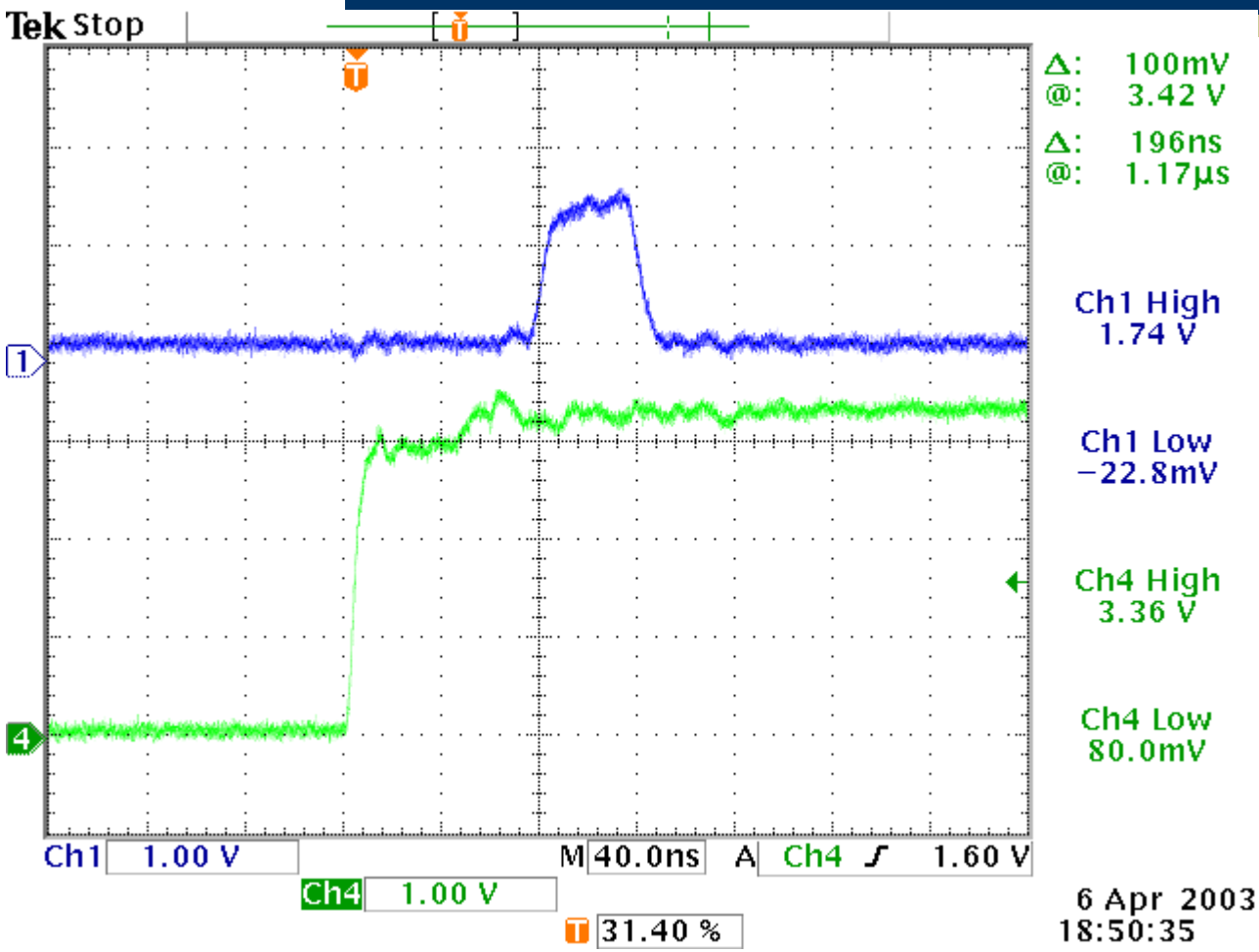
Termination on Hybrid



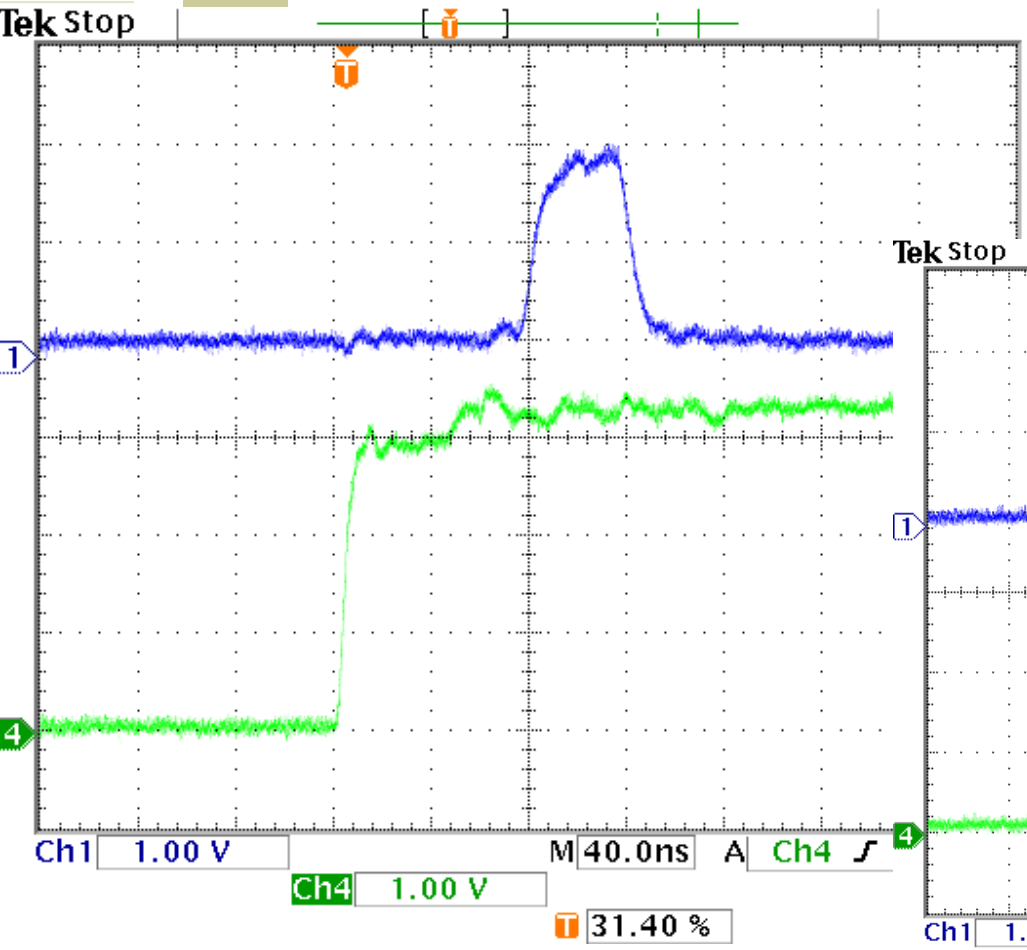
Removed R15 on Hybrid

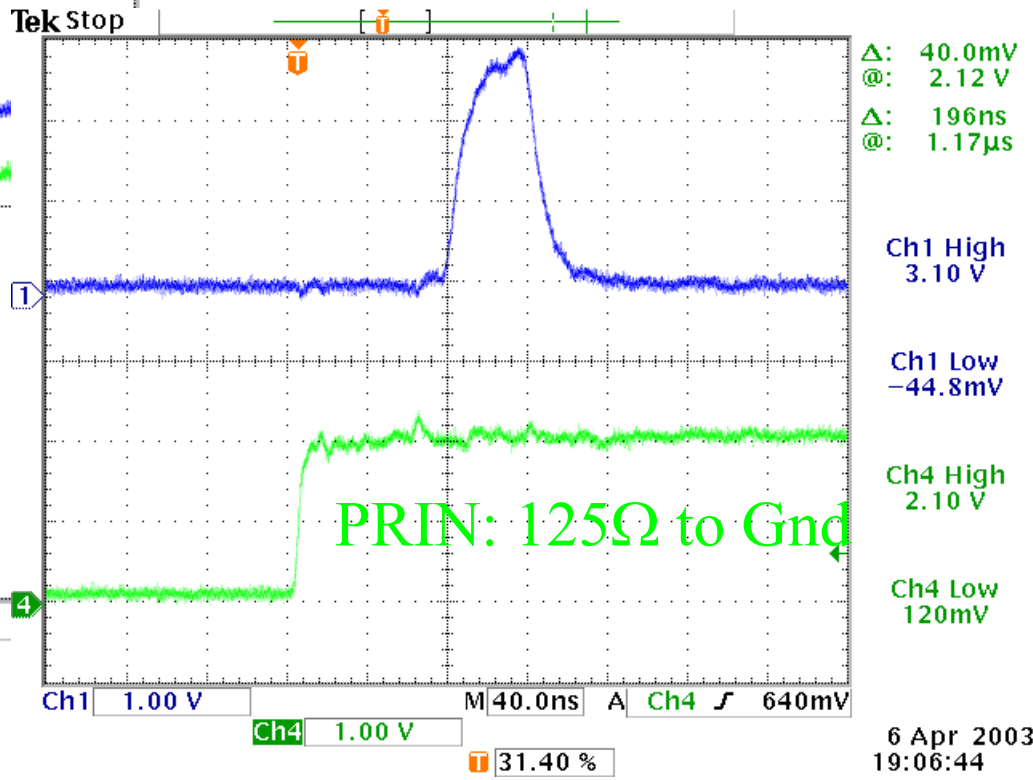
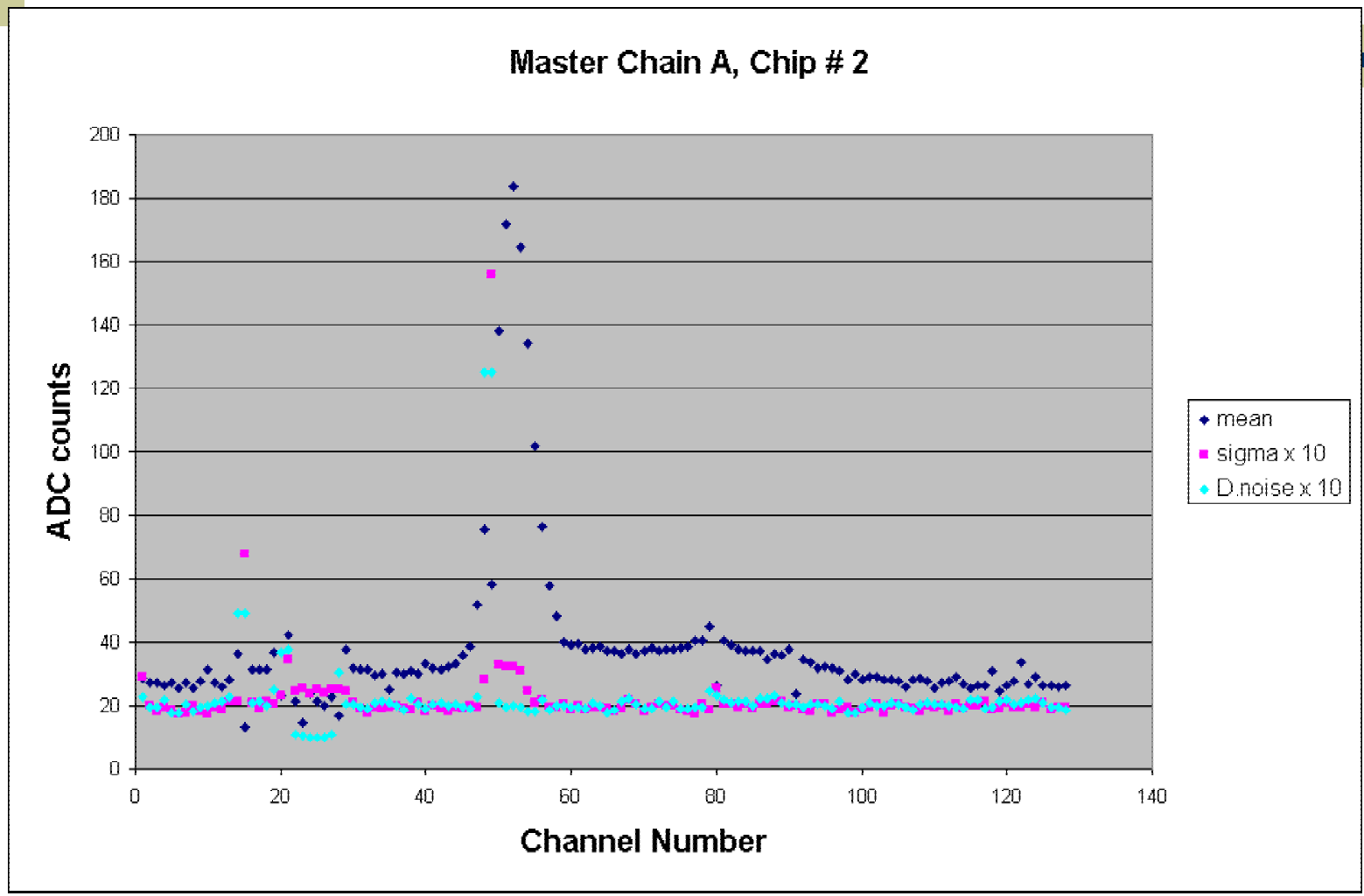


R15 = 56Ω - No Download
R15 = 68Ω



R15 = 125Ω


Tek Stop
Δ: 60.0mV
@: 3.32 V
Δ: 196ns
@: 1.17µs
Ch1 1.00 V
M 40.0ns A Ch4
Ch4 1.00 V
31.40 %


Tek Stop
Δ: 40.0mV
@: 2.12 V
Δ: 196ns
@: 1.17µs
Ch1 High
3.10 V
Ch1 Low
−44.8mV
Ch4 High
2.10 V
Ch4 Low
120mV
PRIN: 125Ω to Gnd
Ch1 1.00 V
M 40.0ns A Ch4 640mV
Ch4 1.00 V
31.40 %
6 Apr 2003
19:06:44

LED(1020) Instead of Laser