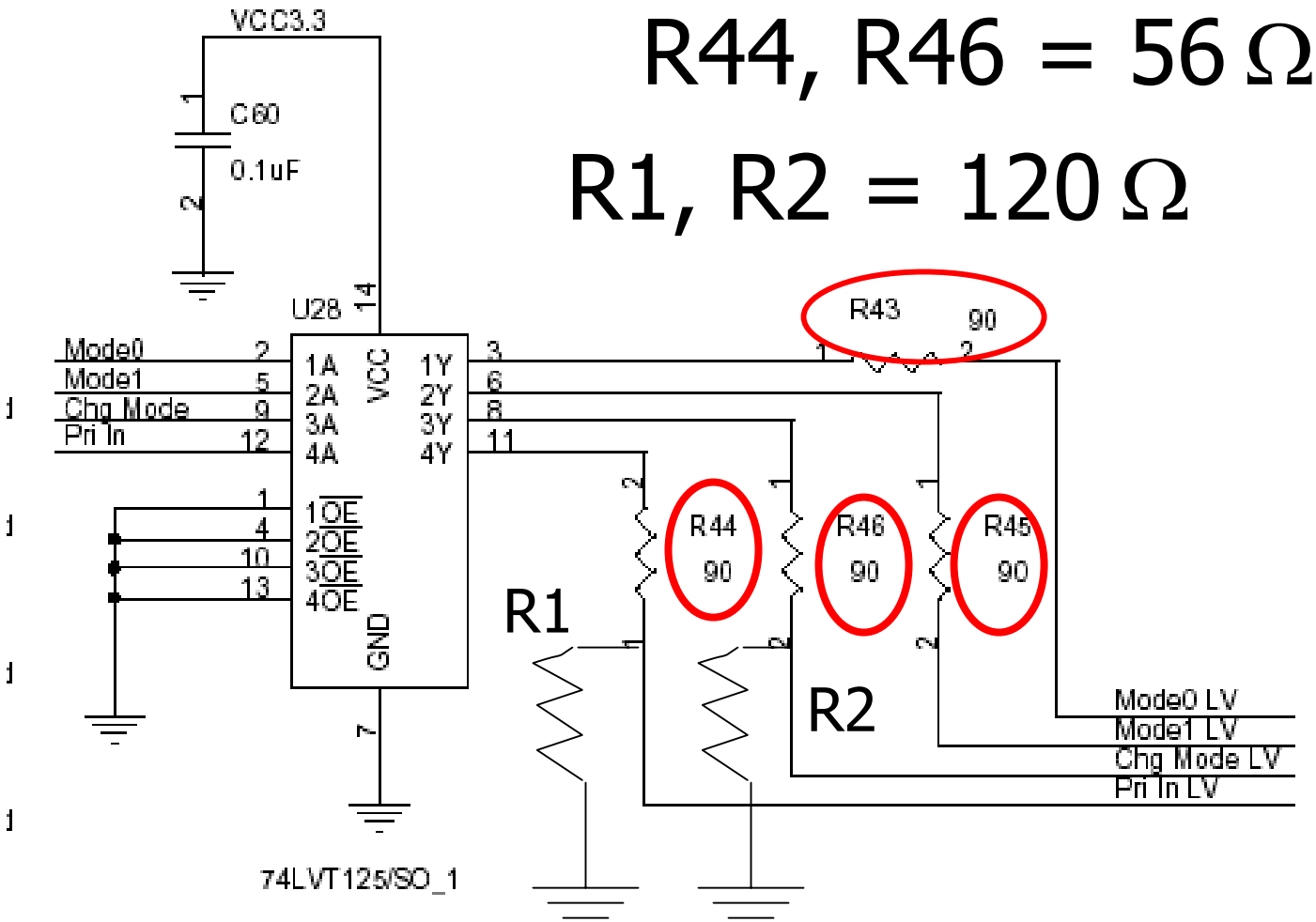
Termination for the Full Chain (Cont'd)

S.Burdin (FNAL)

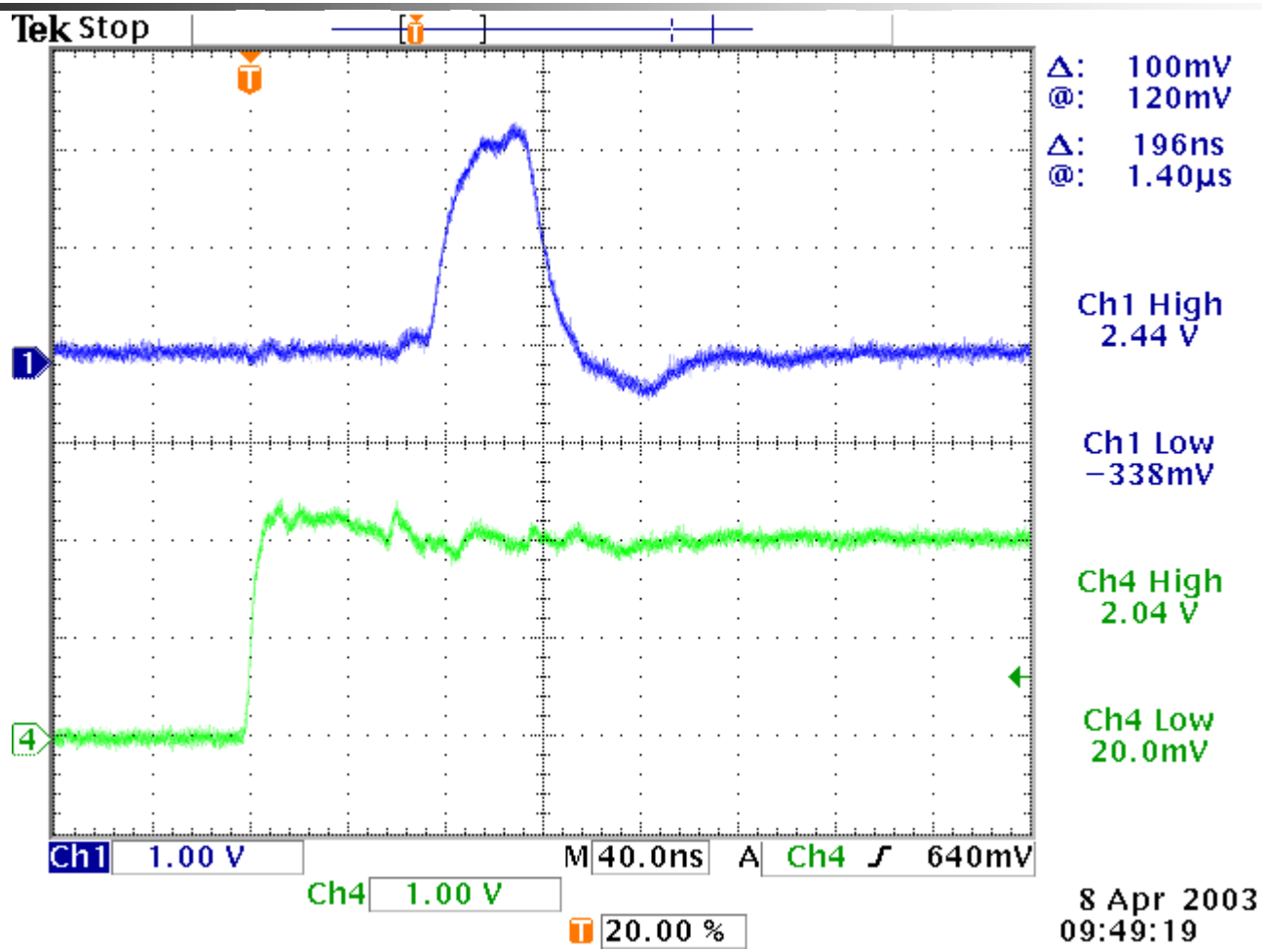
Source termination

R44, R46 = 56 Ω

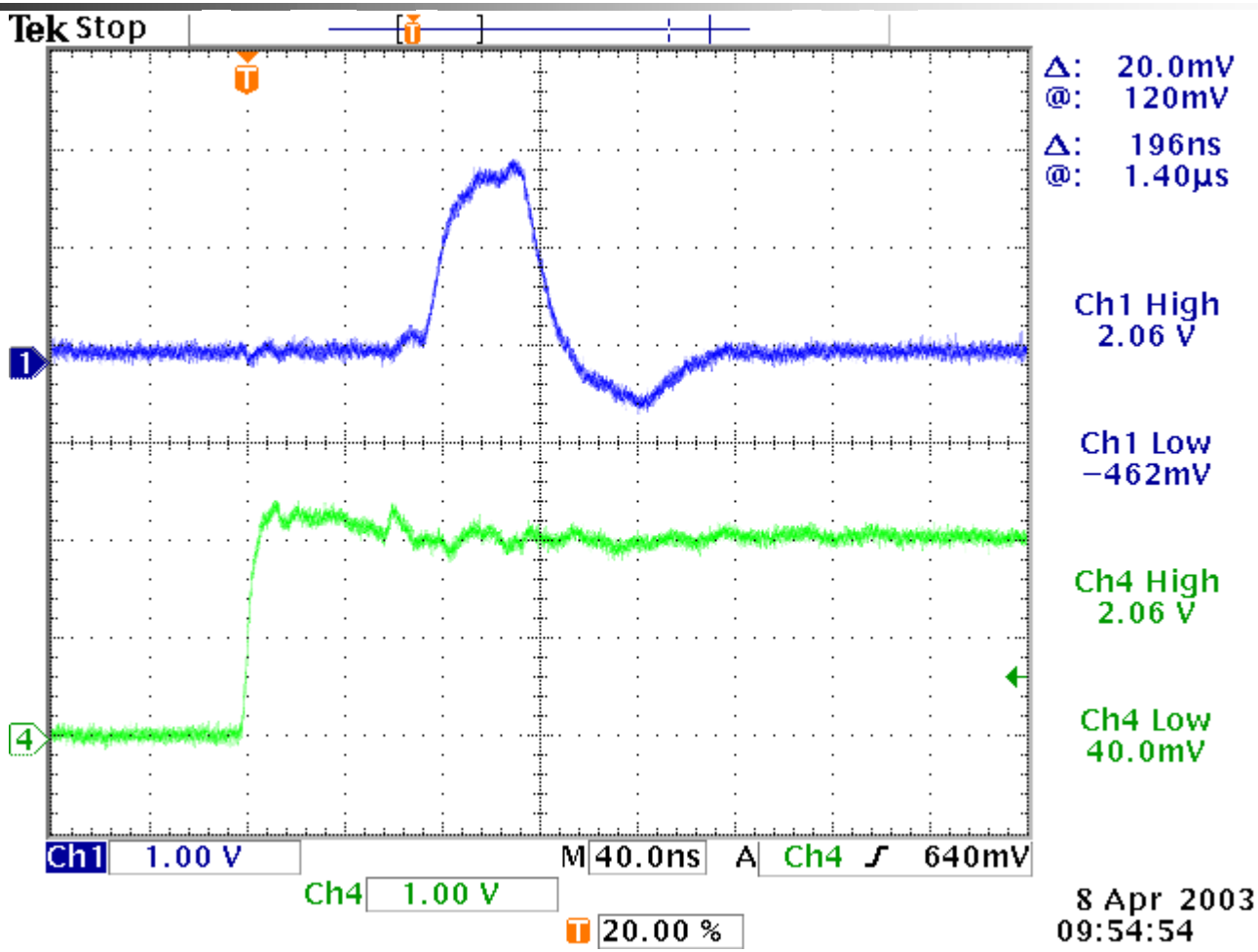
R1, R2 = 120 Ω



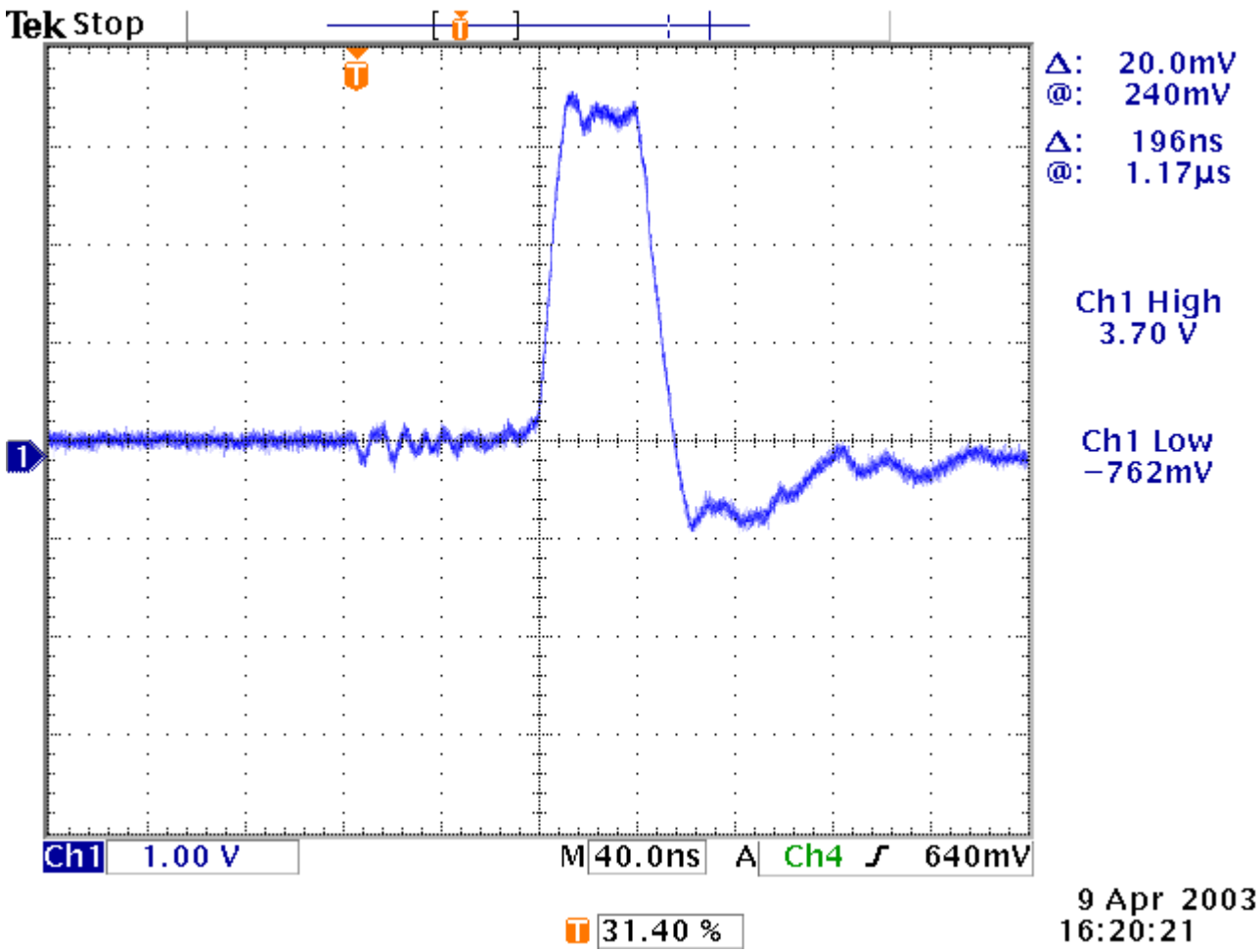
CH_MODE & PRIN
No termination on Hybrid



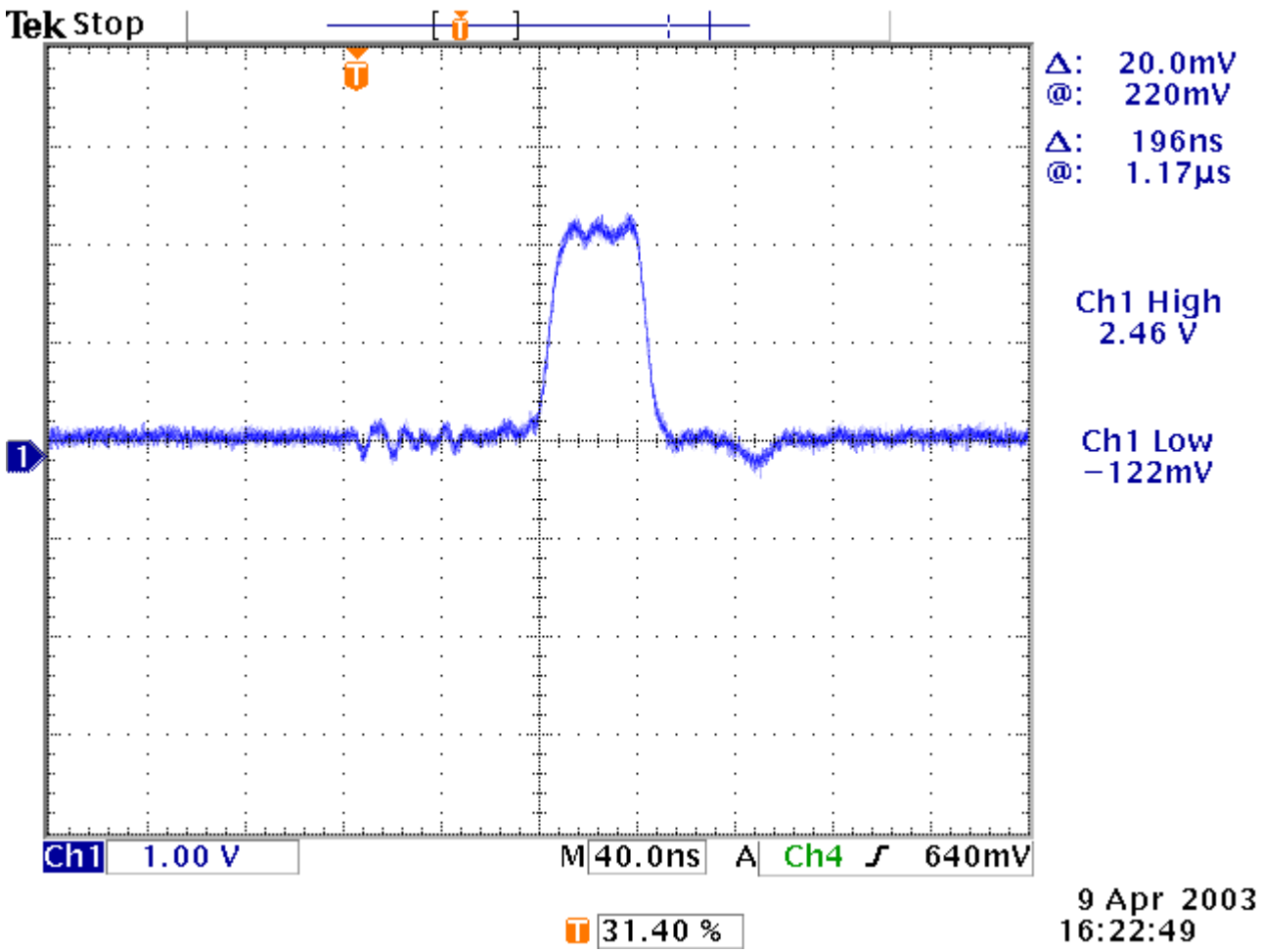
R1,R2 = 68 Ω


Tek Stop
Δ: 20.0mV
@: 120mV
Δ: 196ns
@: 1.40µs
Ch1 High
2.06 V
Ch1 Low
−462mV
Ch4 High
2.06 V
Ch4 Low
40.0mV
Ch1 1.00 V
M 40.0ns
A Ch4 640mV
Ch4 1.00 V
20.00 %
8 Apr 2003
09:54:54

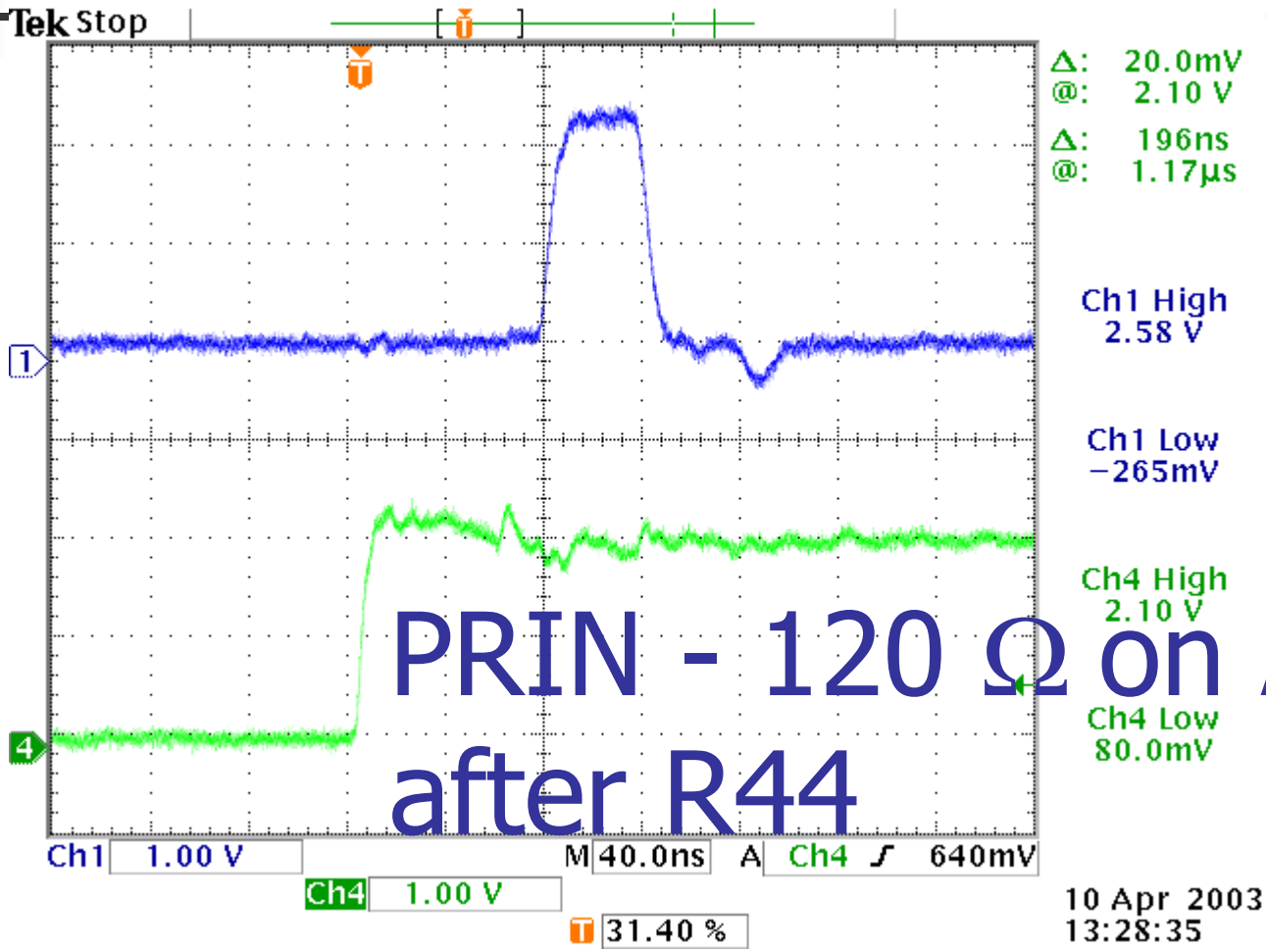
CH_MODE – no termination



CH_MODE – termination 56 Ω on hybrid

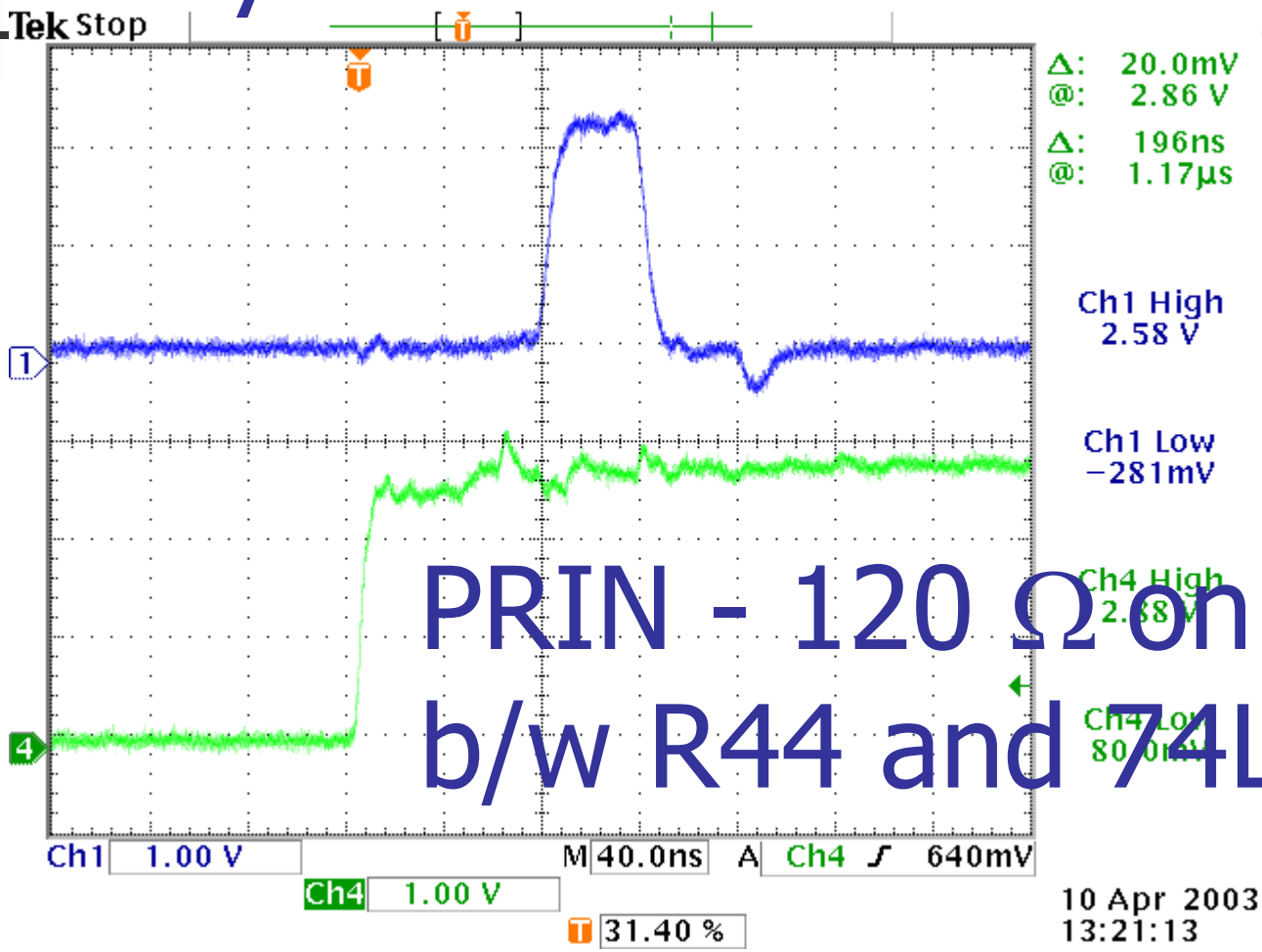


CH_MODE - termination 68 Ω on hybrid



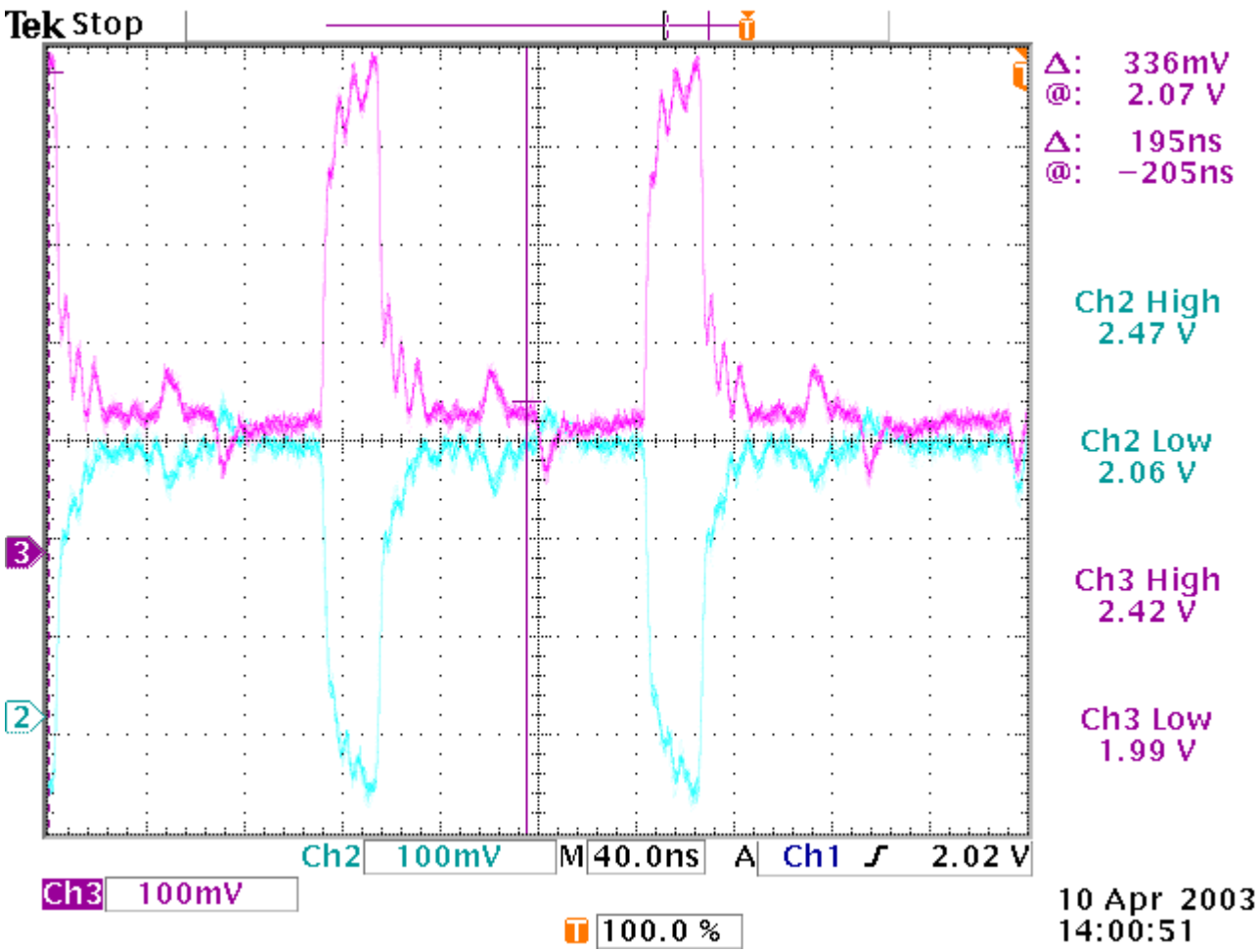
PRIN - 120 Ω on AC after R44

CH_MODE - termination 68 Ω on hybrid

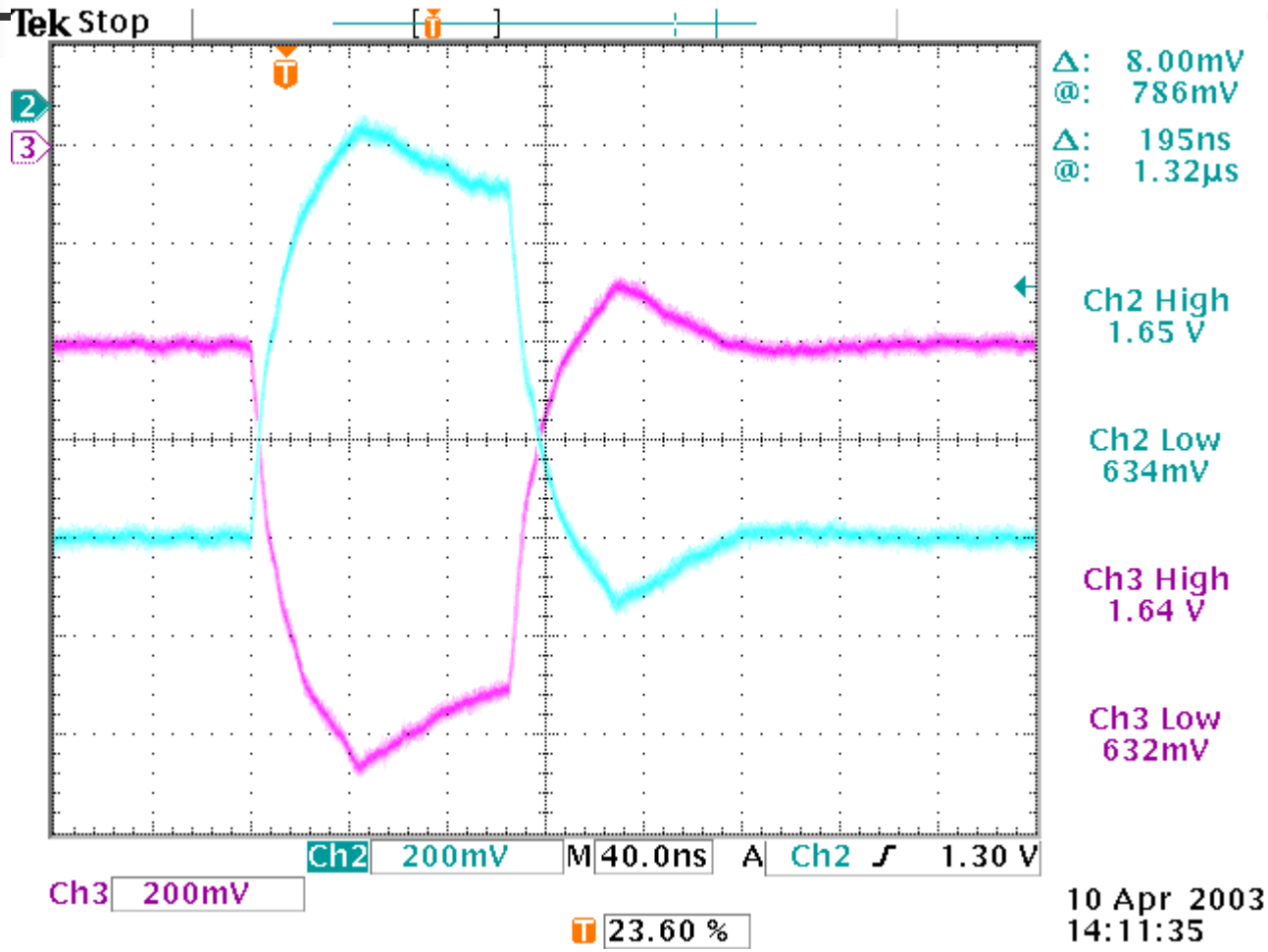


PRIN - 120 Ω on AC b/w R44 and 74LVT…

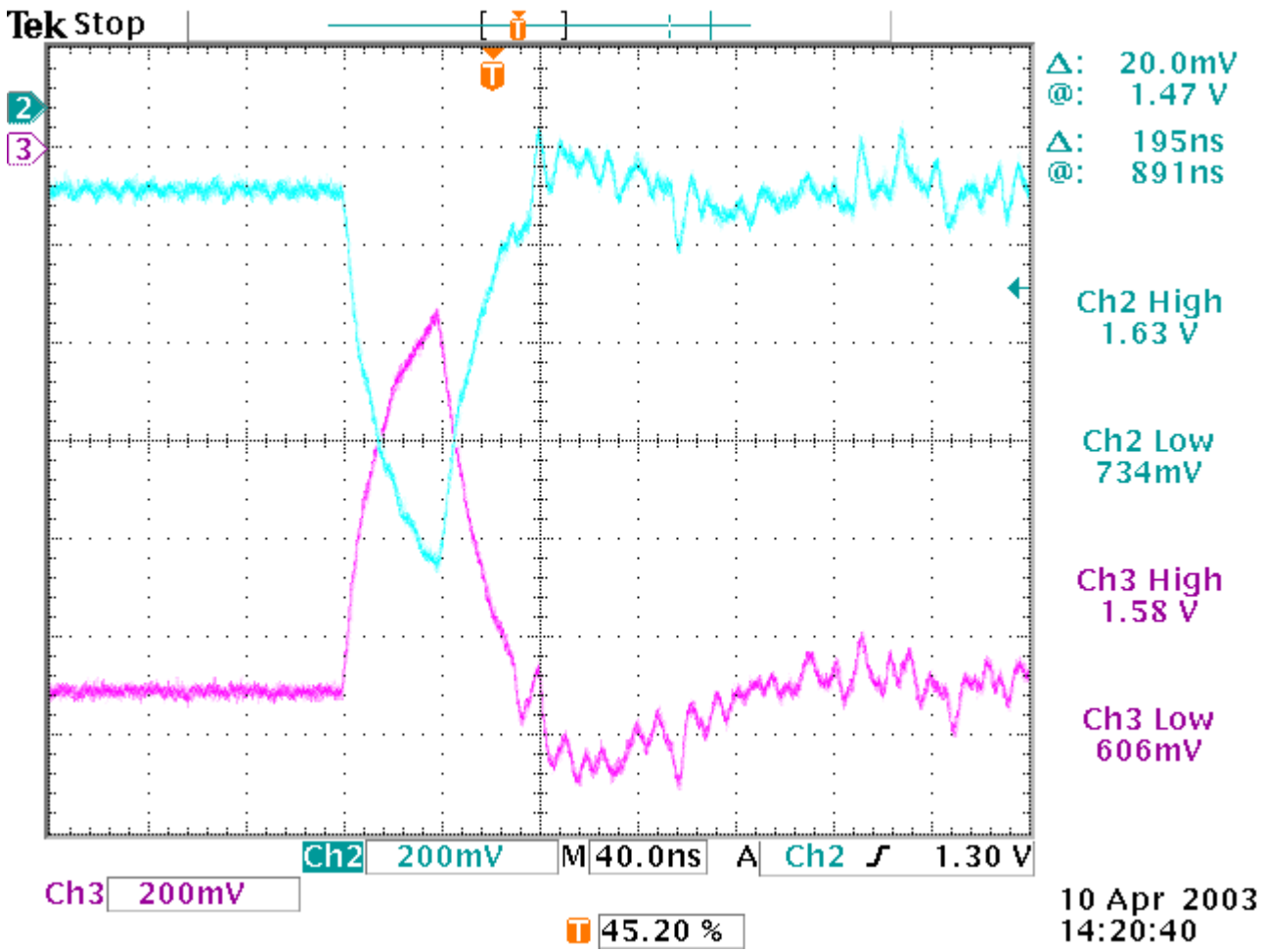
Clocks


Tek Stop
Δ: 336mV
@: 2.07 V
Δ: 195ns
@: −205ns
Ch2 High
2.47 V
Ch2 Low
2.06 V
Ch3 High
2.42 V
Ch3 Low
1.99 V
Ch2 100mV
M 40.0ns
A Ch1 2.02 V
Ch3 100mV
100.0 %
10 Apr 2003
14:00:51

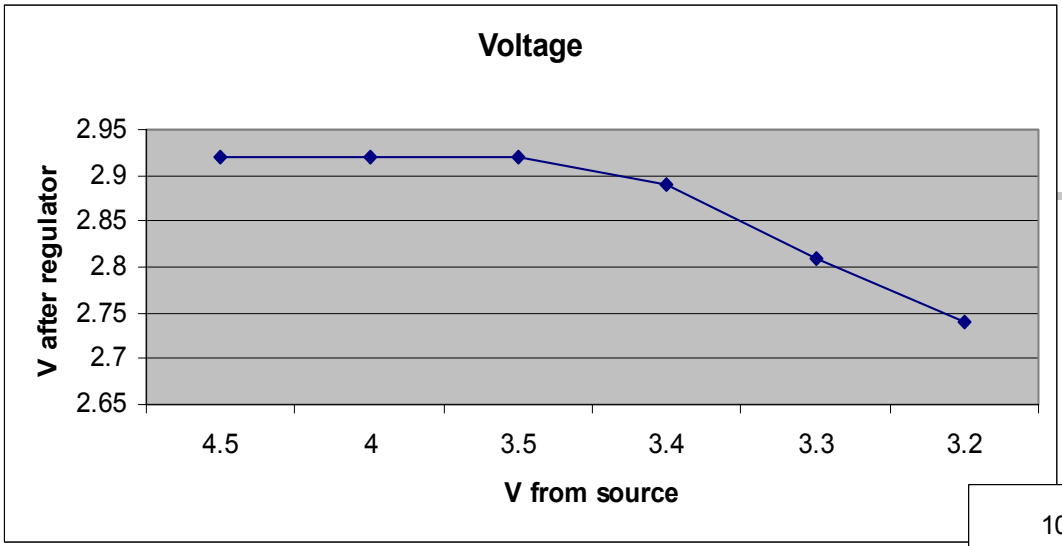
L1A

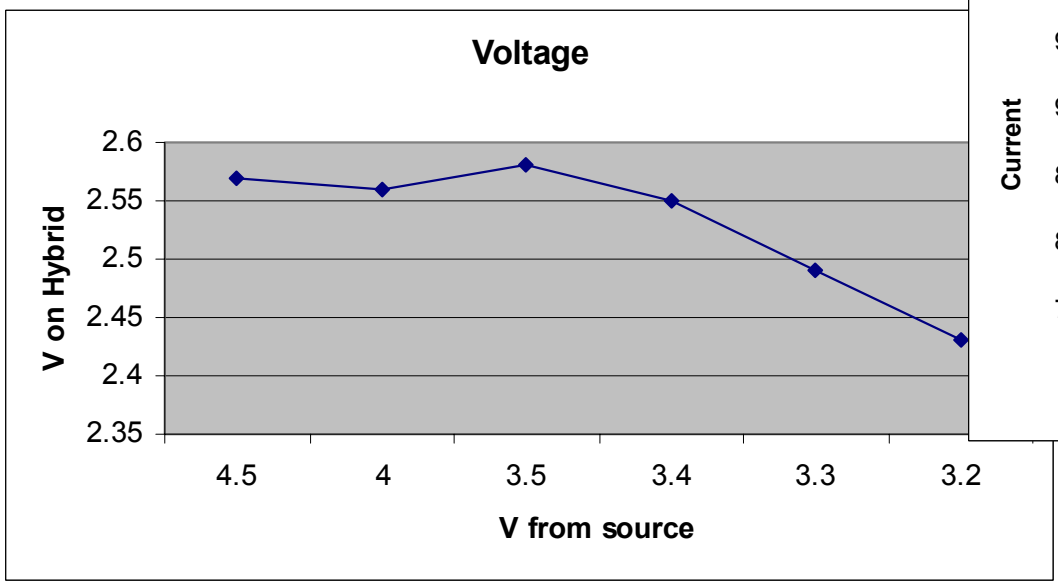

Tek Stop
Δ: 8.00mV
@: 786mV
Δ: 195ns
@: 1.32µs
Ch2 High
1.65 V
Ch2 Low
634mV
Ch3 High
1.64 V
Ch3 Low
632mV
Ch2 200mV
M 40.0ns
A Ch2 1.30 V
Ch3 200mV
23.60 %
10 Apr 2003
14:11:35

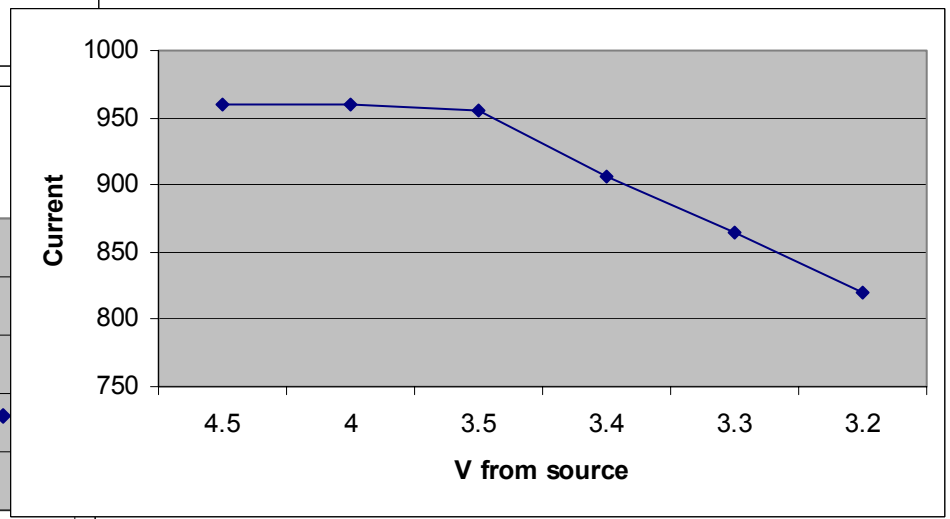
PRD2


Tek Stop
Δ: 20.0mV
@: 1.47 V
Δ: 195ns
@: 891ns
Ch2 High
1.63 V
Ch2 Low
734mV
Ch3 High
1.58 V
Ch3 Low
606mV
Ch2 200mV
M 40.0ns
A Ch2 1.30 V
Ch3 200mV
45.20 %
10 Apr 2003
14:20:40

VDD


Voltage
V after regulator
2.95
2.9
2.85
2.8
2.75
2.7
2.65
4.5
4
3.5
3.4
3.3
3.2
V from source


Voltage
V on Hybrid
2.6
2.55
2.5
2.45
2.4
2.35
4.5
4
3.5
3.4
3.3
3.2
V from source


Current
1000
950
900
850
800
750
4.5
4
3.5
3.4
3.3
3.2
V from source