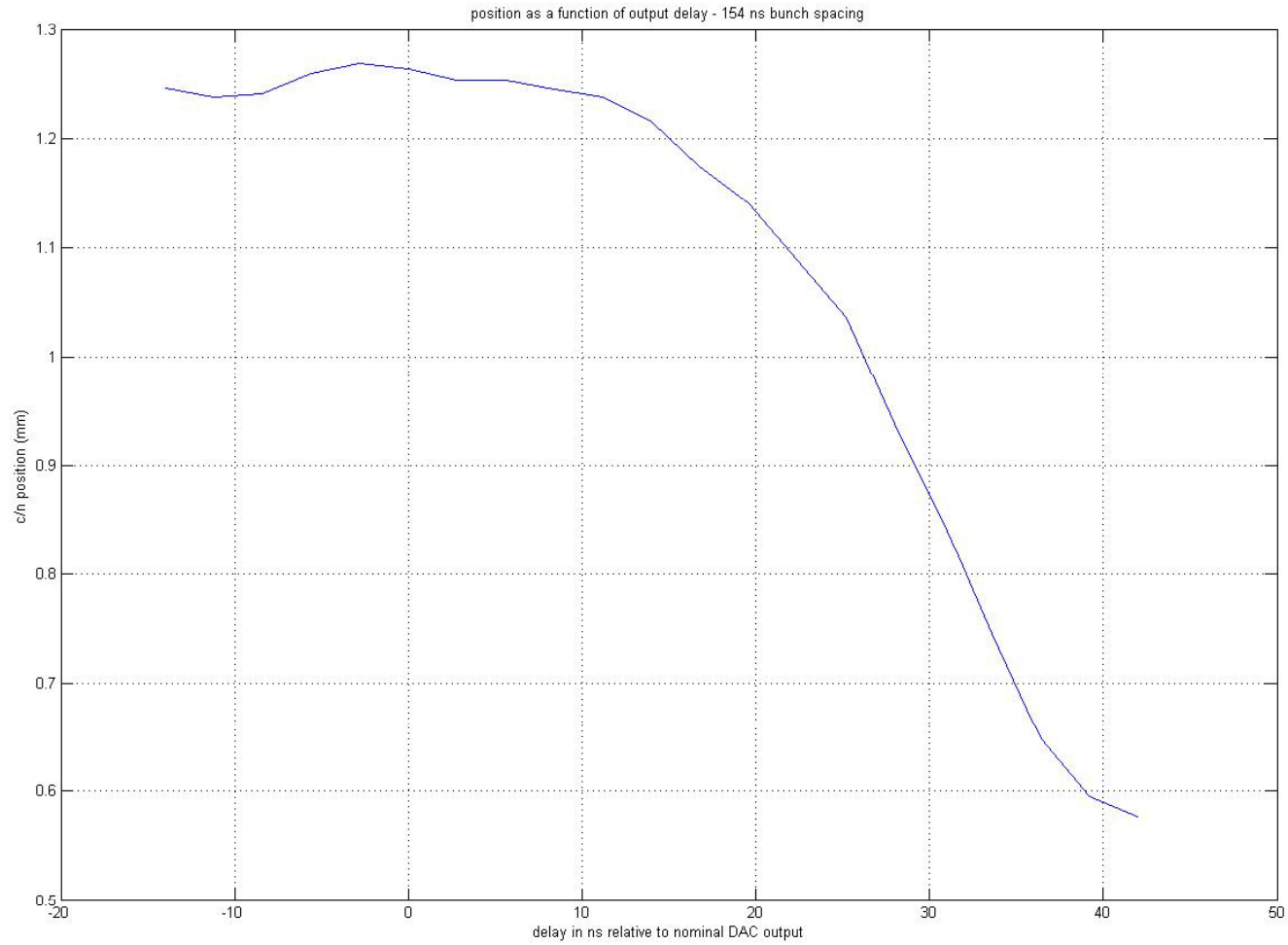# Comparison of amplifier rise-time with historical data
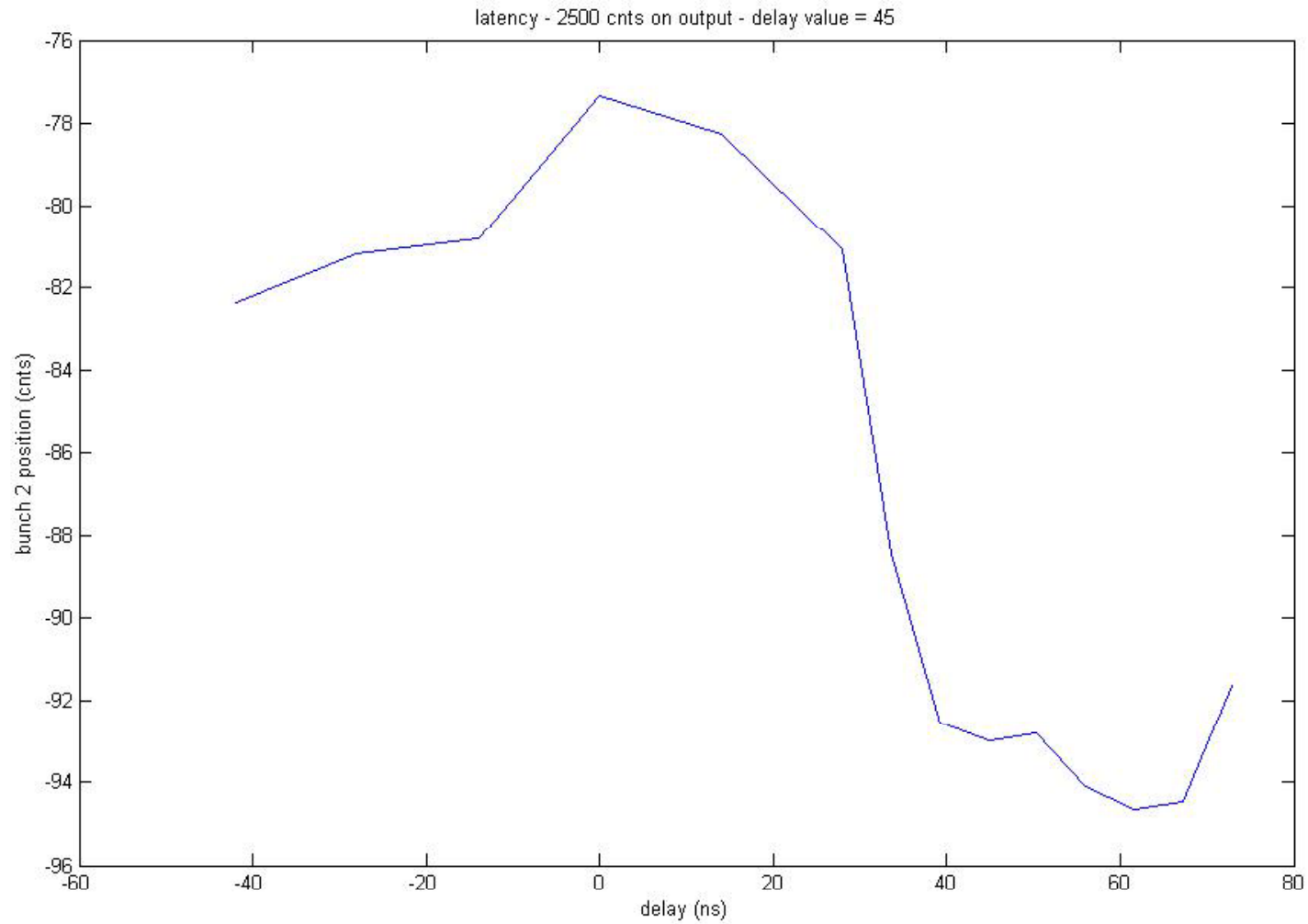
Glenn Christian

16 June 2008

- Aim to compare present rise-time of the amplifier with previous latency measurements and current monitor data (May 07)
- Latency:
  - Dec06 and Feb07 overdriving amplifier during latency scan
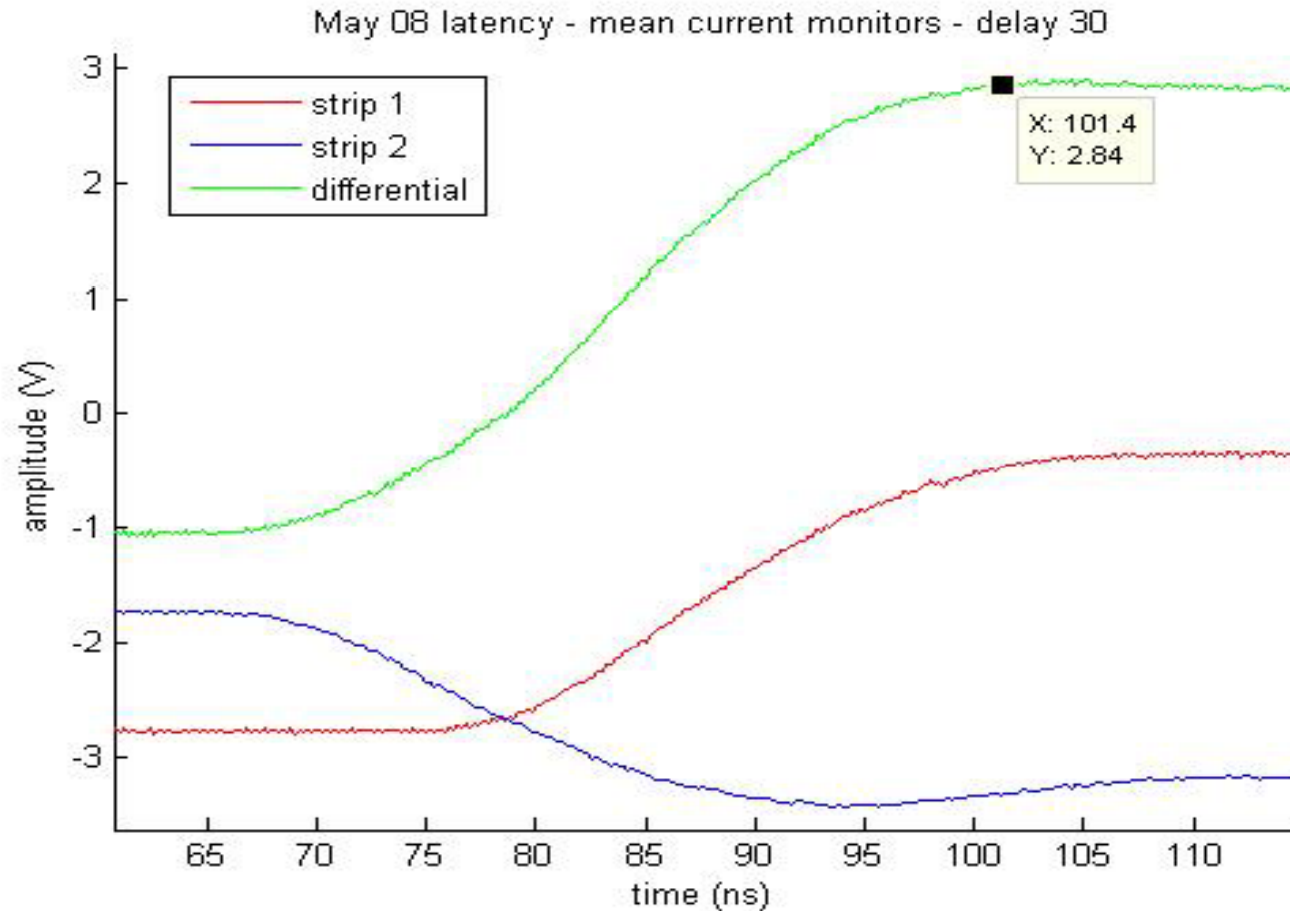 - Feb07 estimated ~135 ns latency with 4(5) clock cycles in FPGA

May07 Latency

position as a function of output delay - 154 ns bunch spacing

May08 Latency – ILA (rough)

latency - 2500 cnts on output - delay value = 45
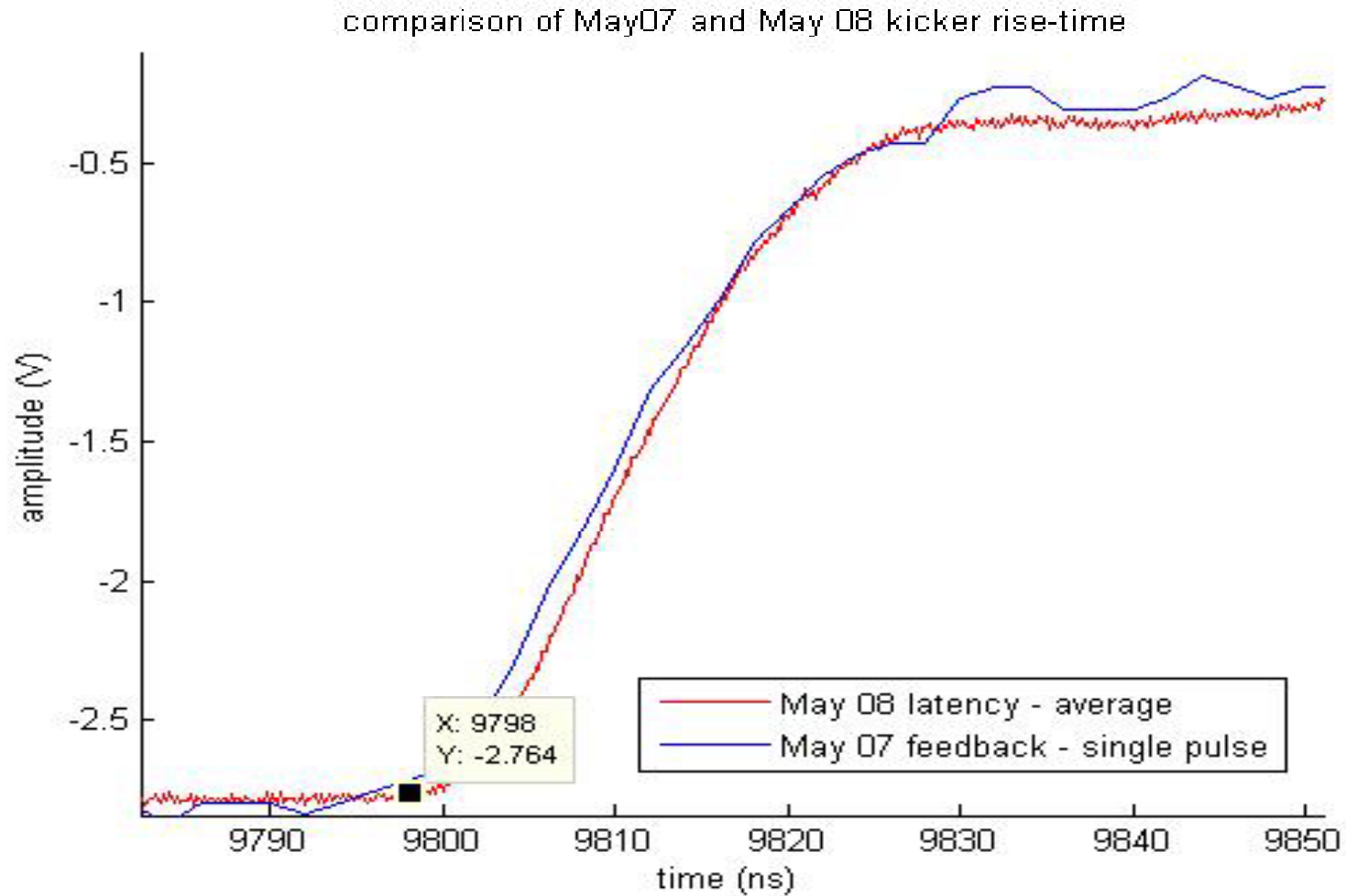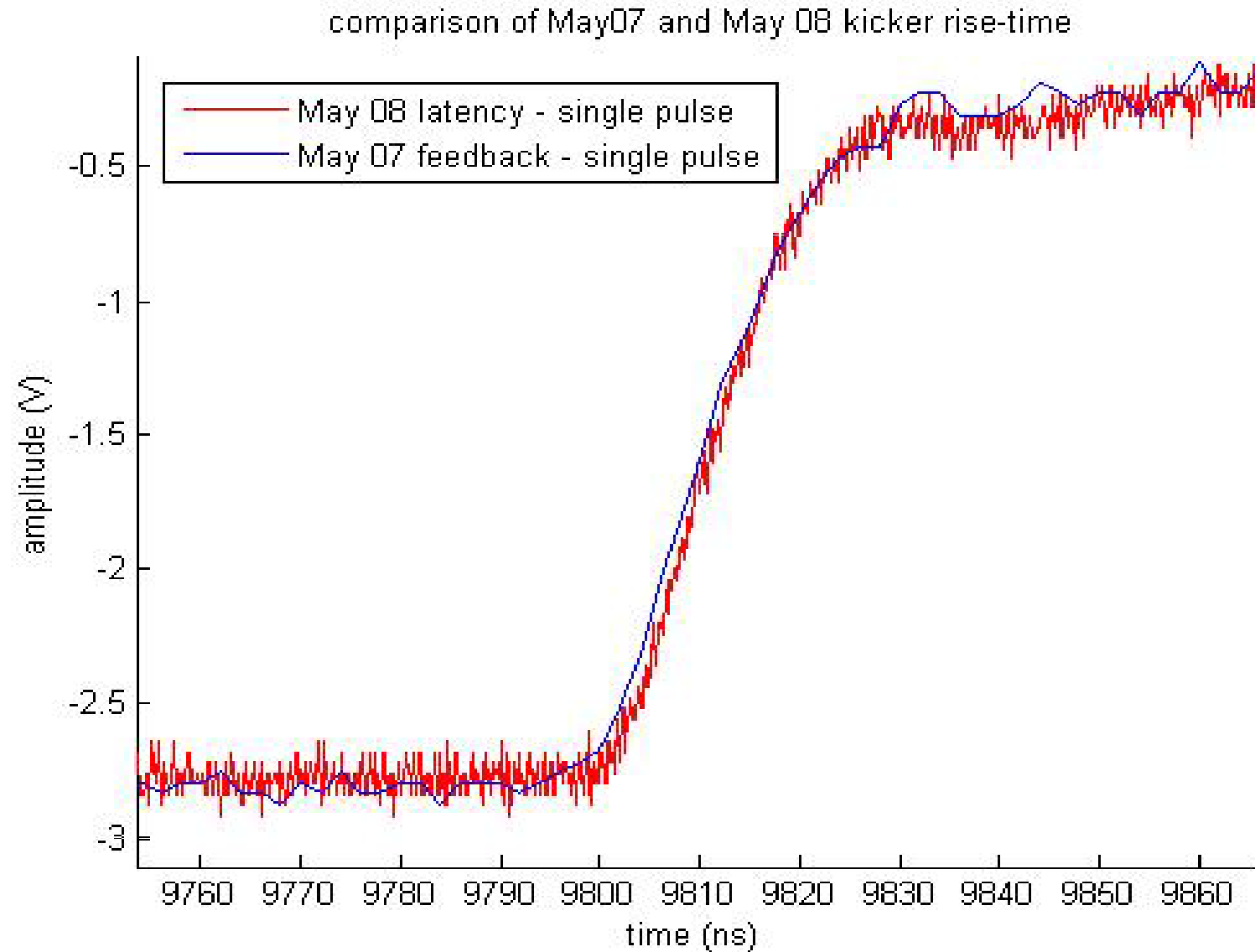
Current Monitors (May08)

May 08 latency - mean current monitors - delay 30

-1 V across strips with feedback off? Bending magnet?

Overdriving in strip2?

May07-08 comparison (1)

comparison of May07 and May 08 kicker rise-time

May07-08 comparison (2)

comparison of May07 and May 08 kicker rise-time

conclusions

- No difference between kicker rise-time now and last year

- Latency measurement seems to be okay

- Perhaps overdriving amp slightly in recent measurement – skews the measurement