21Q40 measurement status

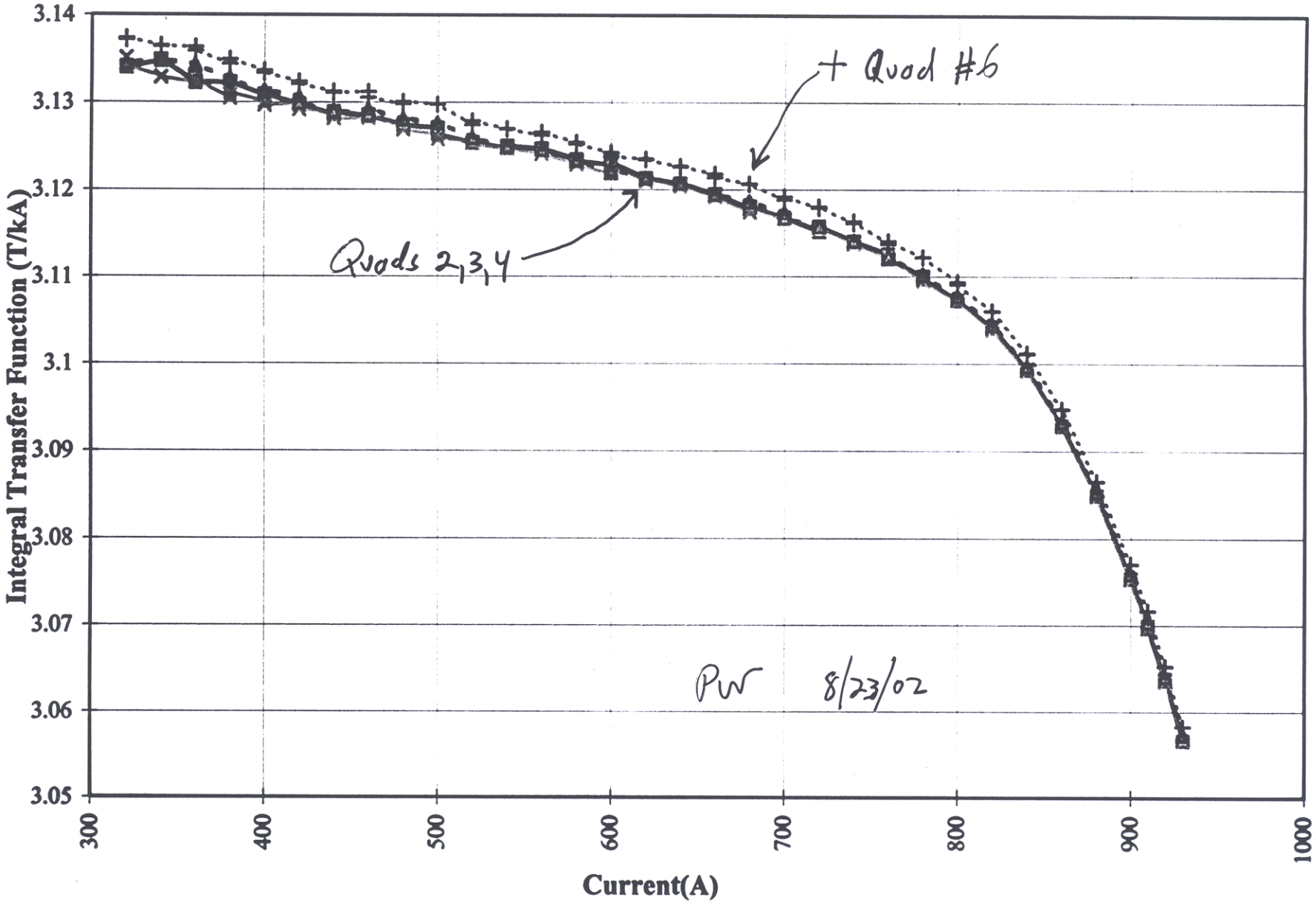
- Four quads measured
  - Three “left” and one “right”
- Can compare ITF’s and harmonics
  - Working to reduce noise in current readout, needed for absolute ITF’s.
- The “left” quads have ITF’s within ~ 10^{-4}
- The “right” quad is higher by ~ 7×10^{-4}
  - Due to the different bus configuration?

Comparing ITF's

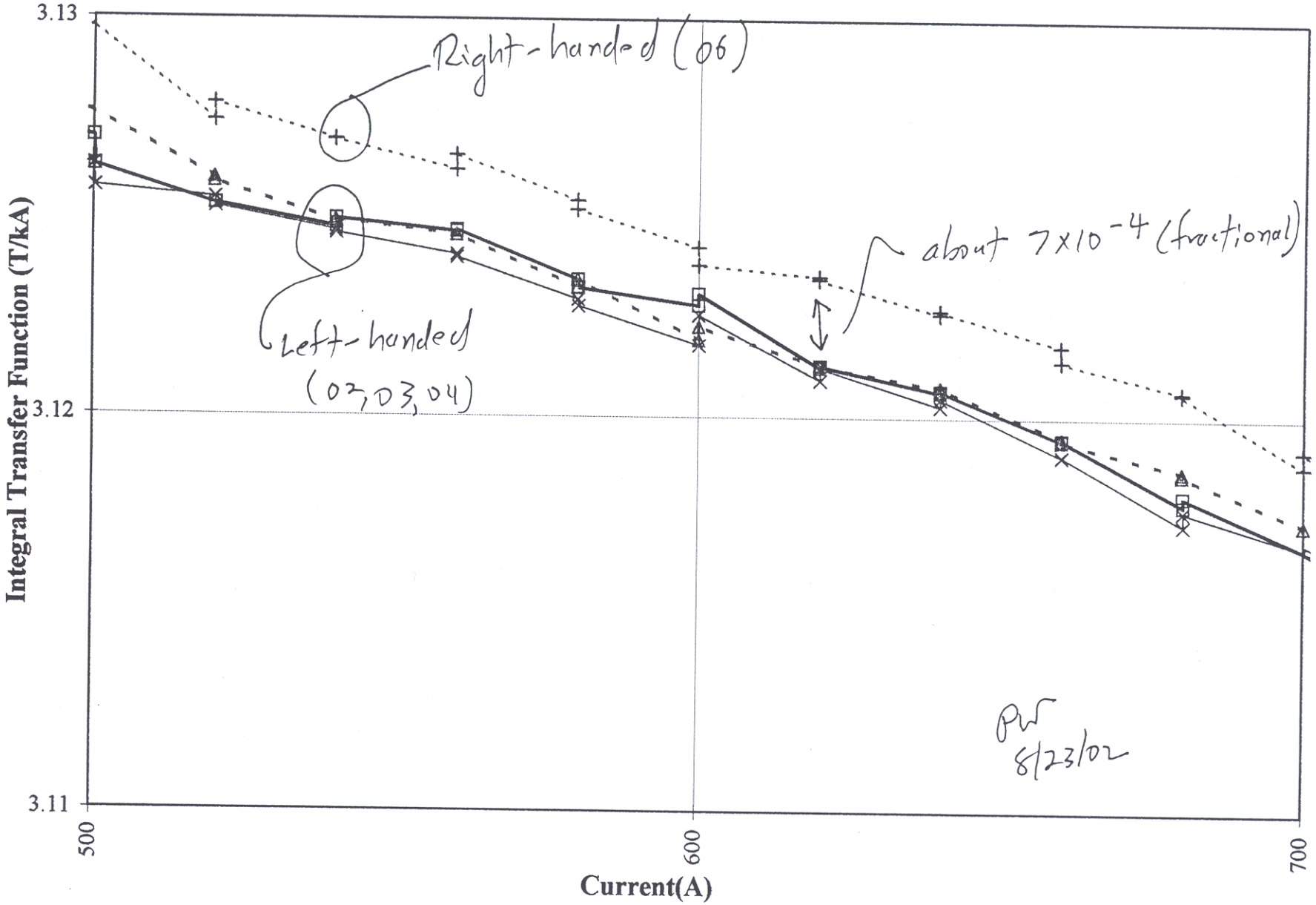
- Noise in the current readout
  - ~ 0.4×10^{-4} rms, max ~ 1.5×10^{-4}
- See plots of ITF vs I
- To reduce noise, average ITF between 500A and 700A, compare quads.
- Averages not useful for accelerators

Plot Chart 23

SNS 21Q40's



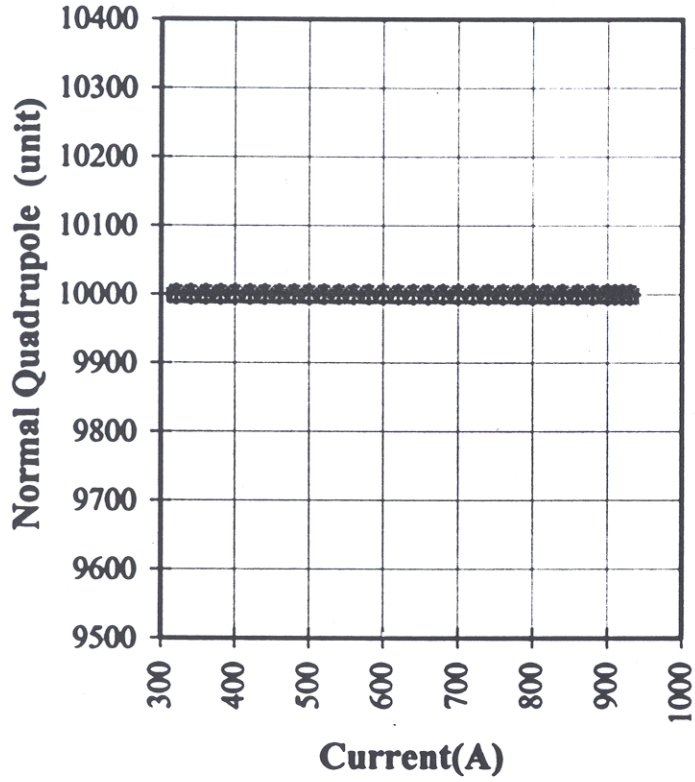
Plot Chart 23 SNS 21Q40's

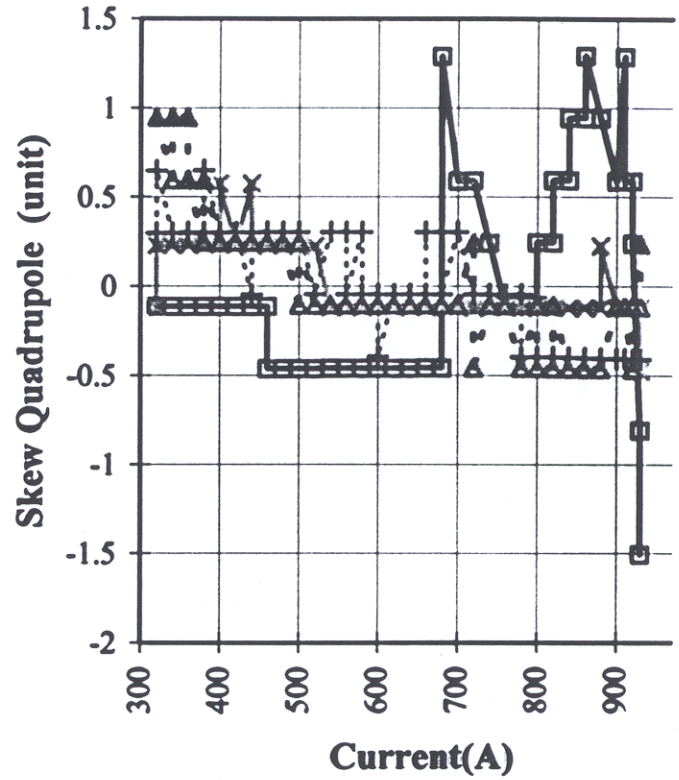


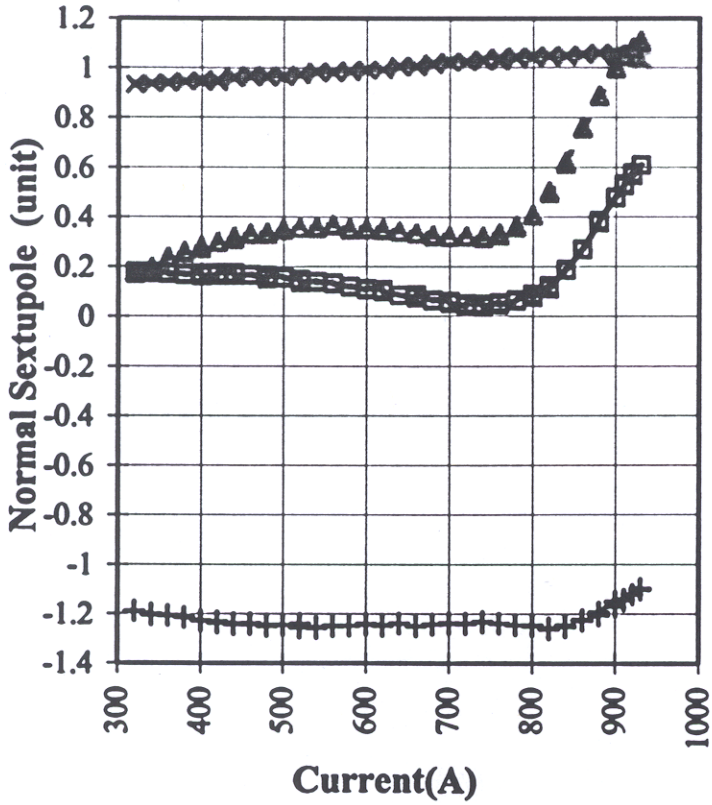
Average ITFs x 10^4

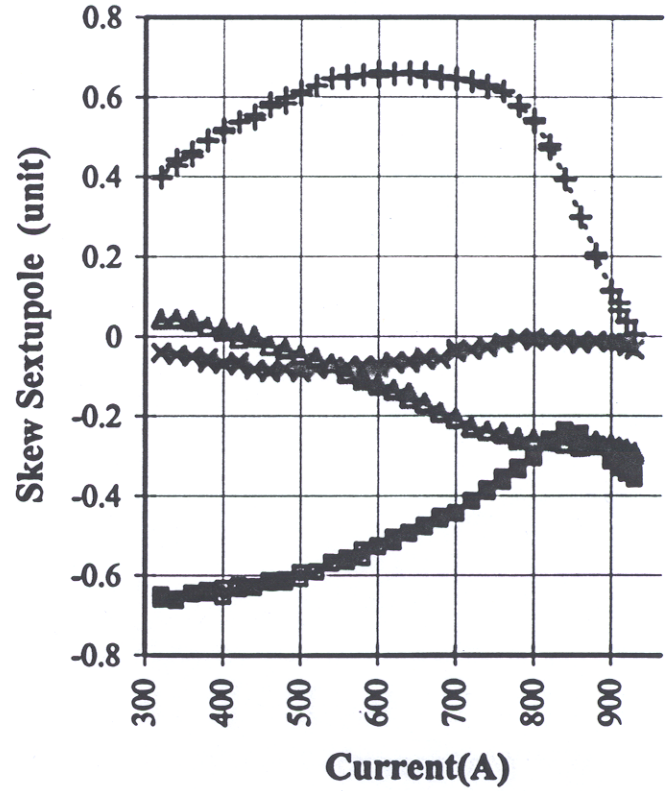
1×10^{-4}	3
Quad 2	31218
Quad 3	31222
Quad 4	31223
Quad 6	31243

SQ210340.101 SQ210202.101 SQ210402.101 SQ210606.101









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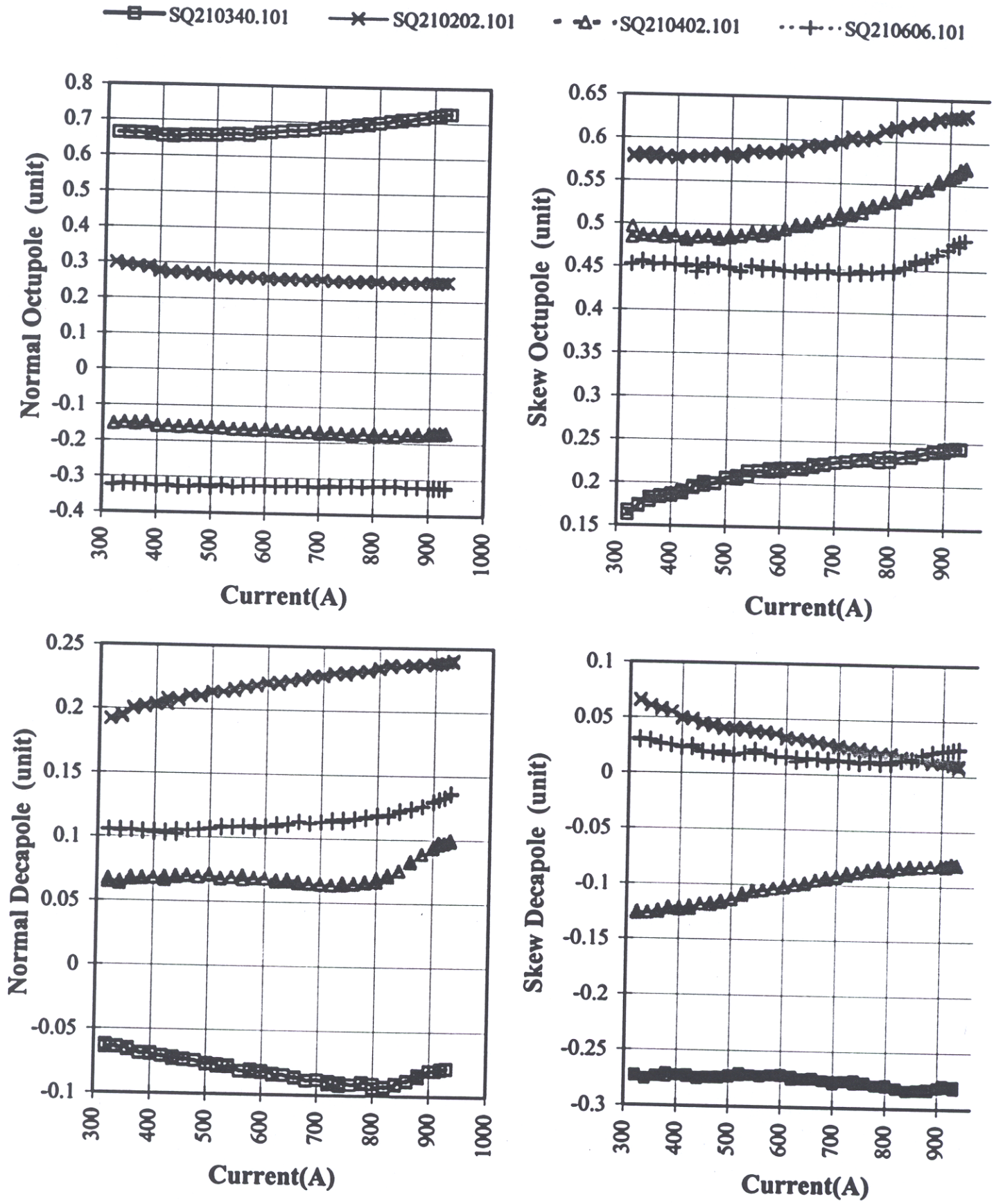

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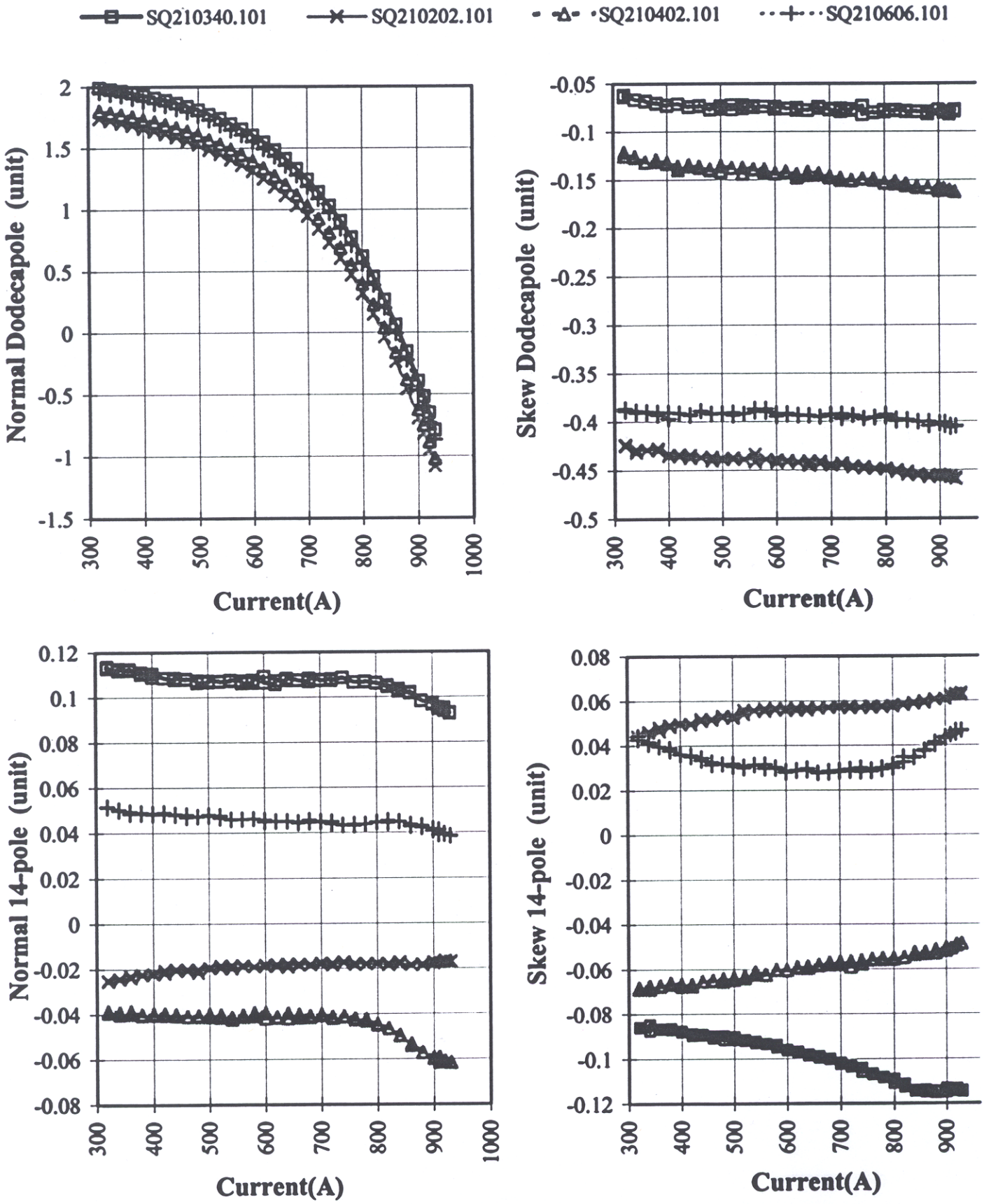

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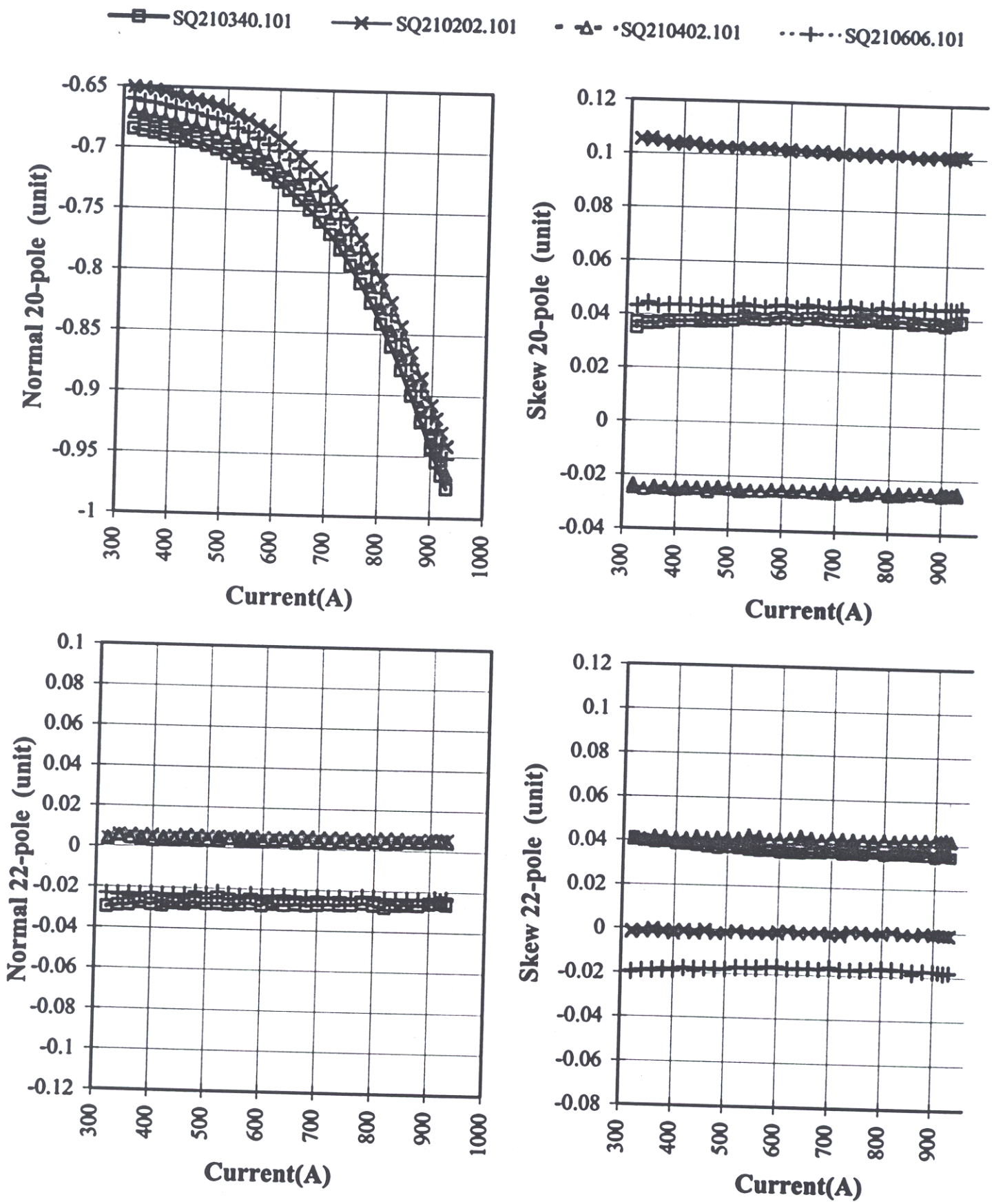

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