**E1039 Proptube Preamp Card Test Procedure**

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**Proptube preamp card test stand setup, normal operating parameters:**

1. Pulse generator AFG3102
   1. 10kHz square wave
   2. V\_pp, >= 200mV
2. Digital scope with differential probe TDS5034B
   1. Chan-1, monitoring input test pulse (1 MOhm)
   2. Chan-2, Regular probe, 1MOhm;
   3. Chan-3, Differential probe to check output signal
3. Proptube front panel, with stands
4. Power supply, +/-5V, 1A each;
   1. +5V, I = 0.40 A
   2. -5V, I = 0.55 A
5. Preamp card to be tested
   1. 56 Ohm version
   2. 300 Ohm version

Normal output: V\_pp = 1.0V (ECL output)

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Test logbook:

https://docs.google.com/spreadsheets/d/1jzI36KzsCZkU85pxJ0IMISJ86WhYzkeignXAFpBP5RA/edit?usp=sharing

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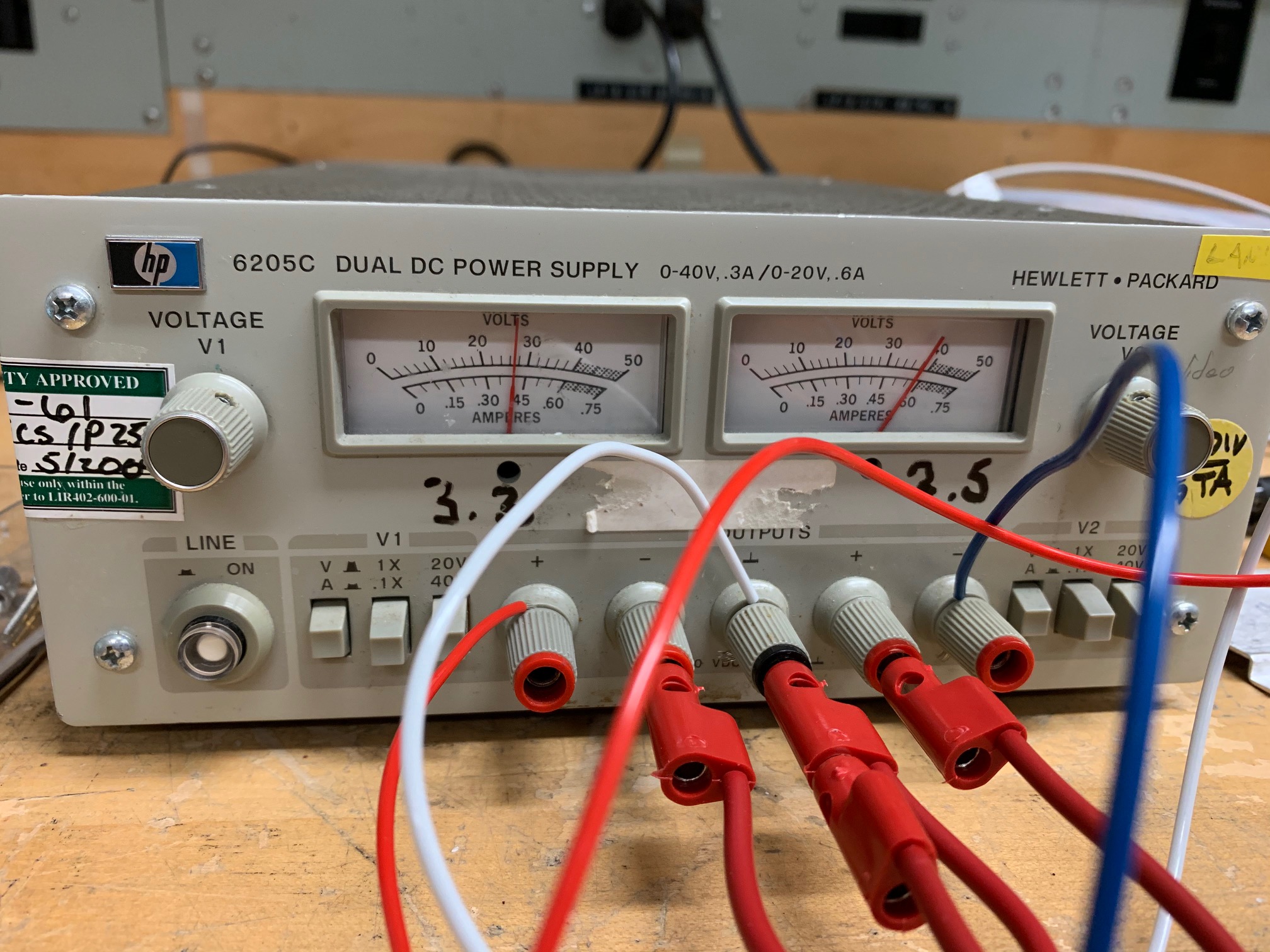


Prop-Tube\_PreApm-Card\_Channel-Map-IMG\_0078.jpg

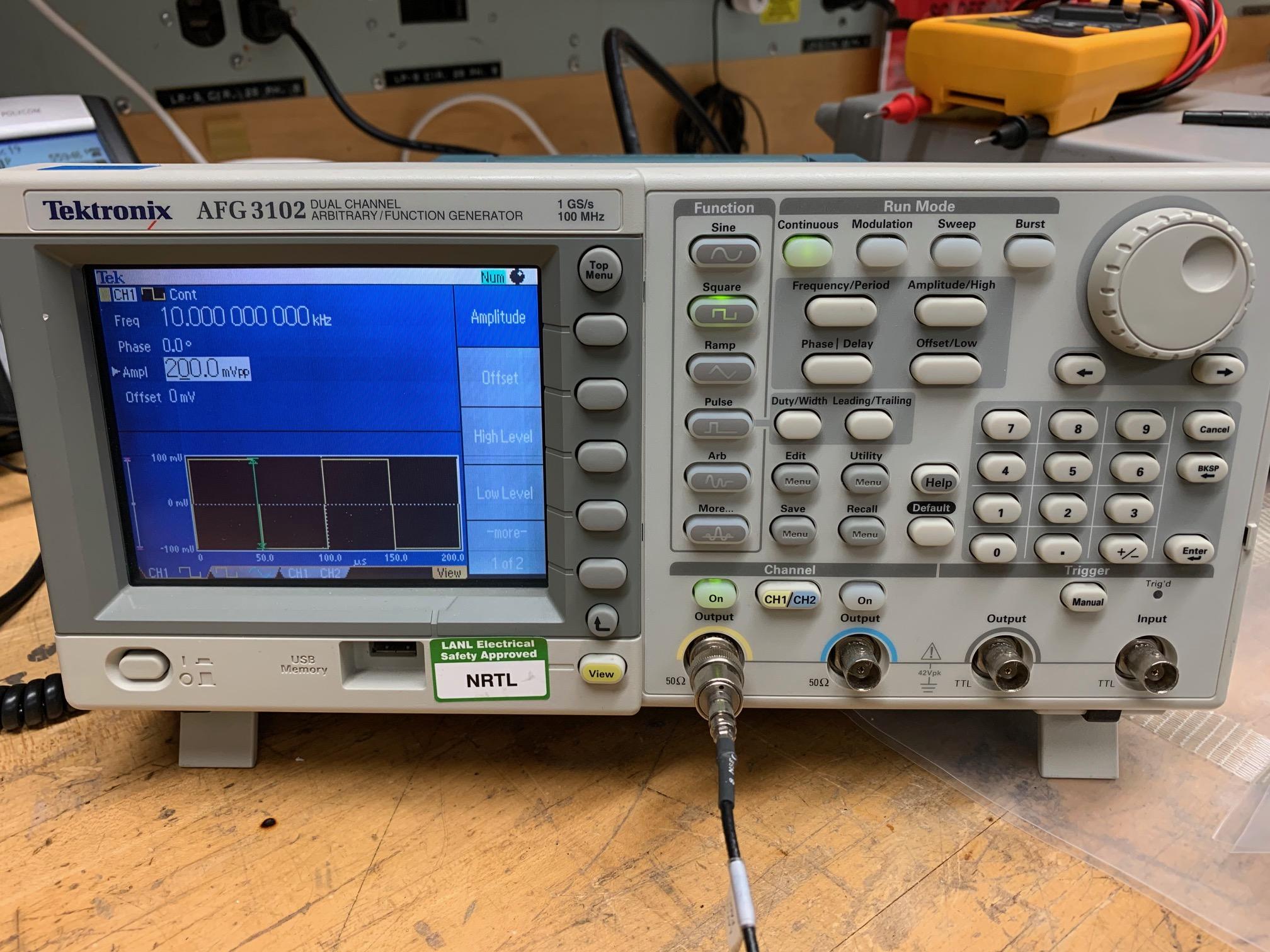
Test bench @C129



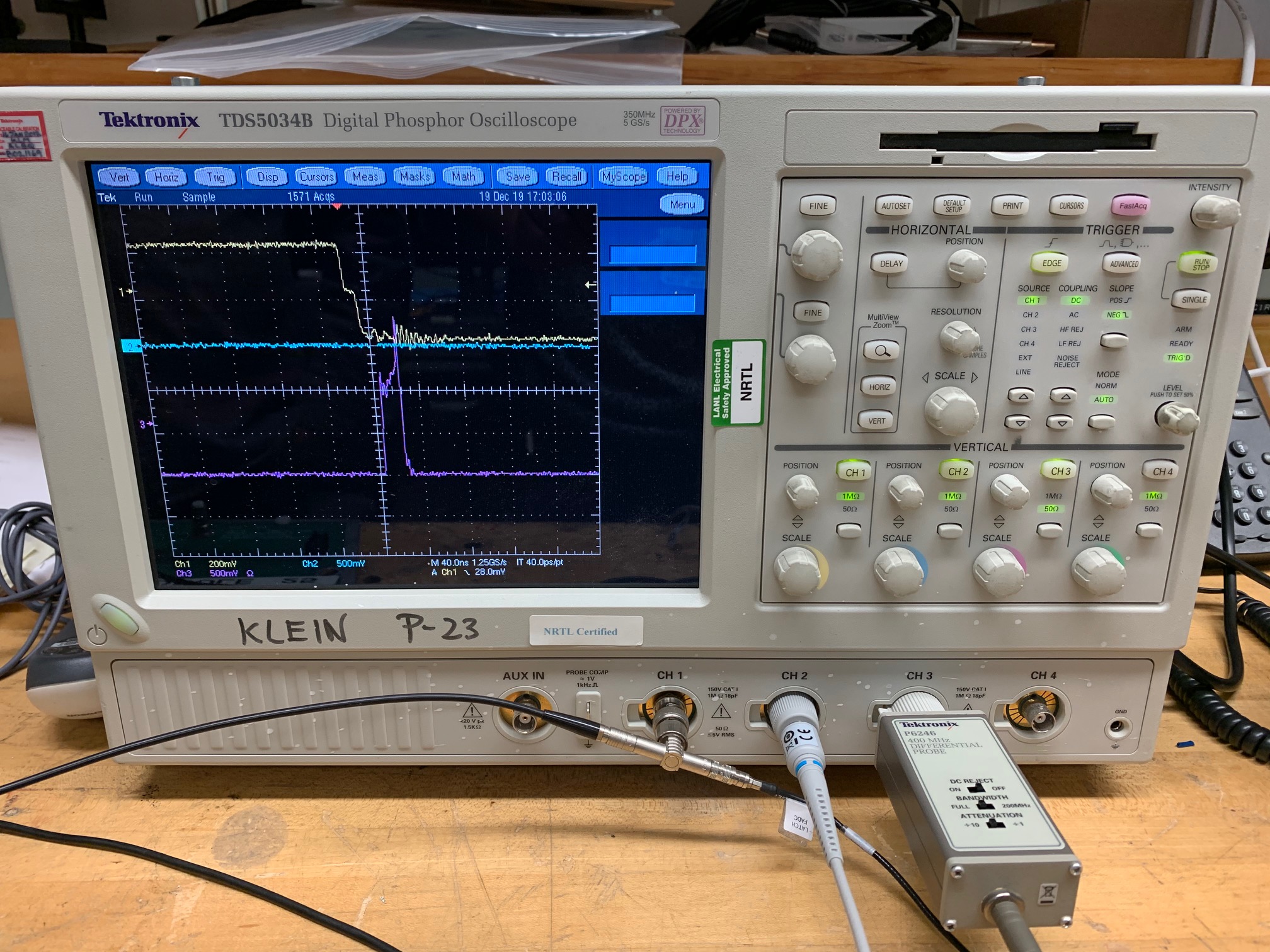
Power Supply: +5V (0.4A) and -5V (0.55A)



Pulser: 10kHz square wave, V\_pp > 200mV



Signals: with external pulser, output = Differential ECL signal V\_pp = 1V



**Preamp card output channel map:**

From Right to Left: 1, 2,3, …, 16, 17, see photo below.

