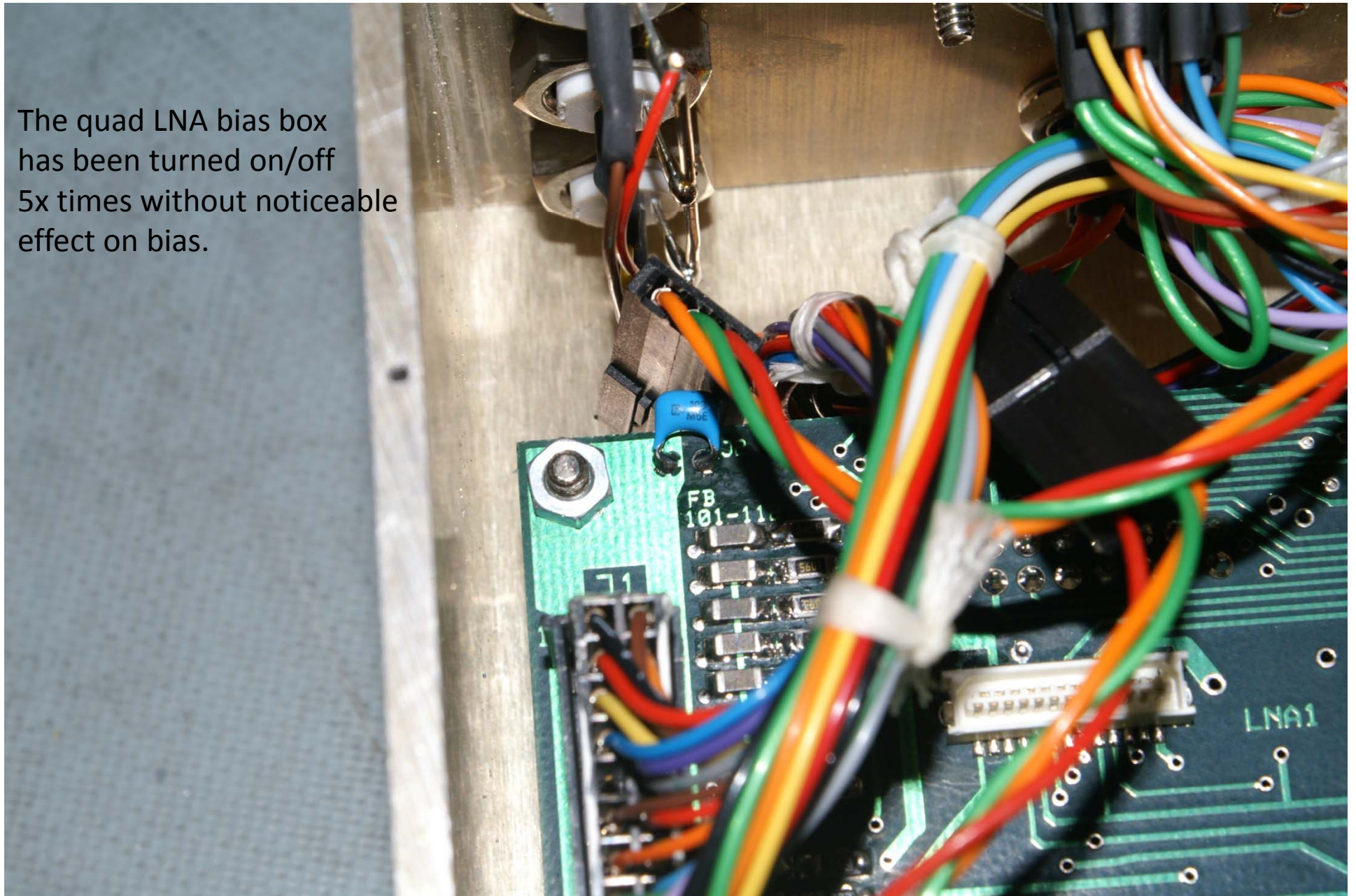
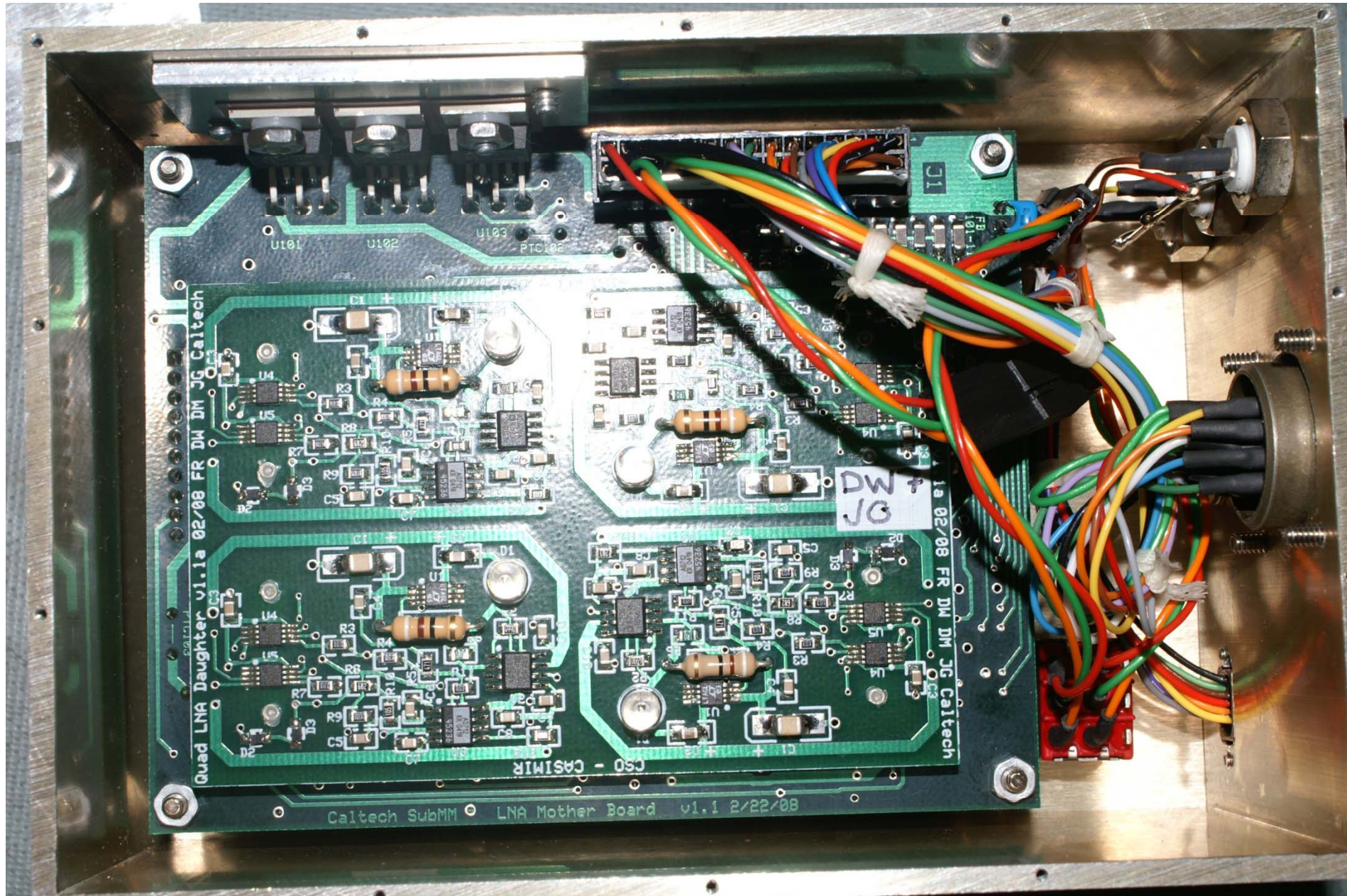


LNA 0.1uF Chassis-to-dc return bypass capacitor

The quad LNA bias box has been turned on/off 5x times without noticeable effect on bias.



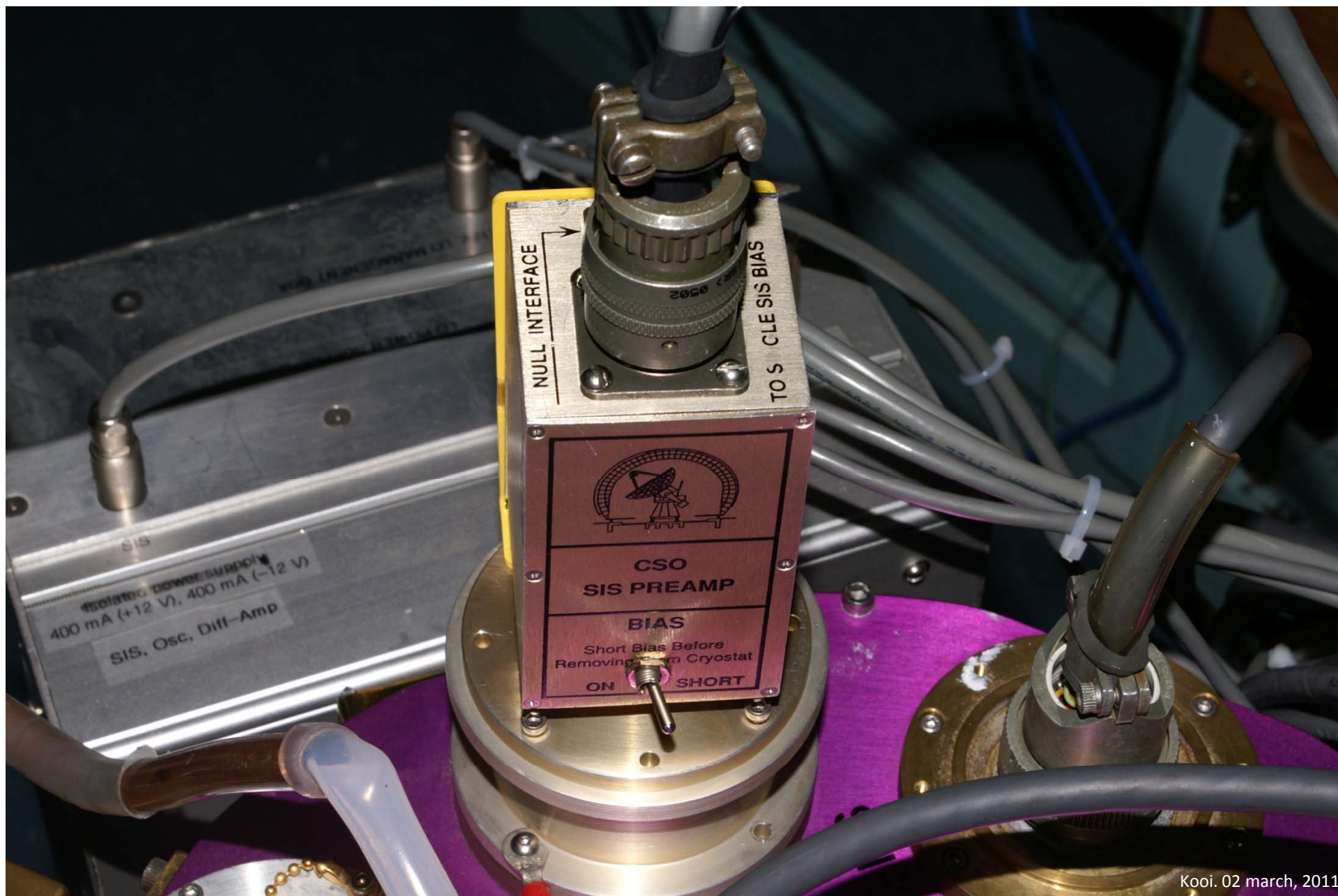
LNA 0.1uF Chassis-to-dc return bypass capacitor



SIS Preamp change to MDM-15 with support bracket.

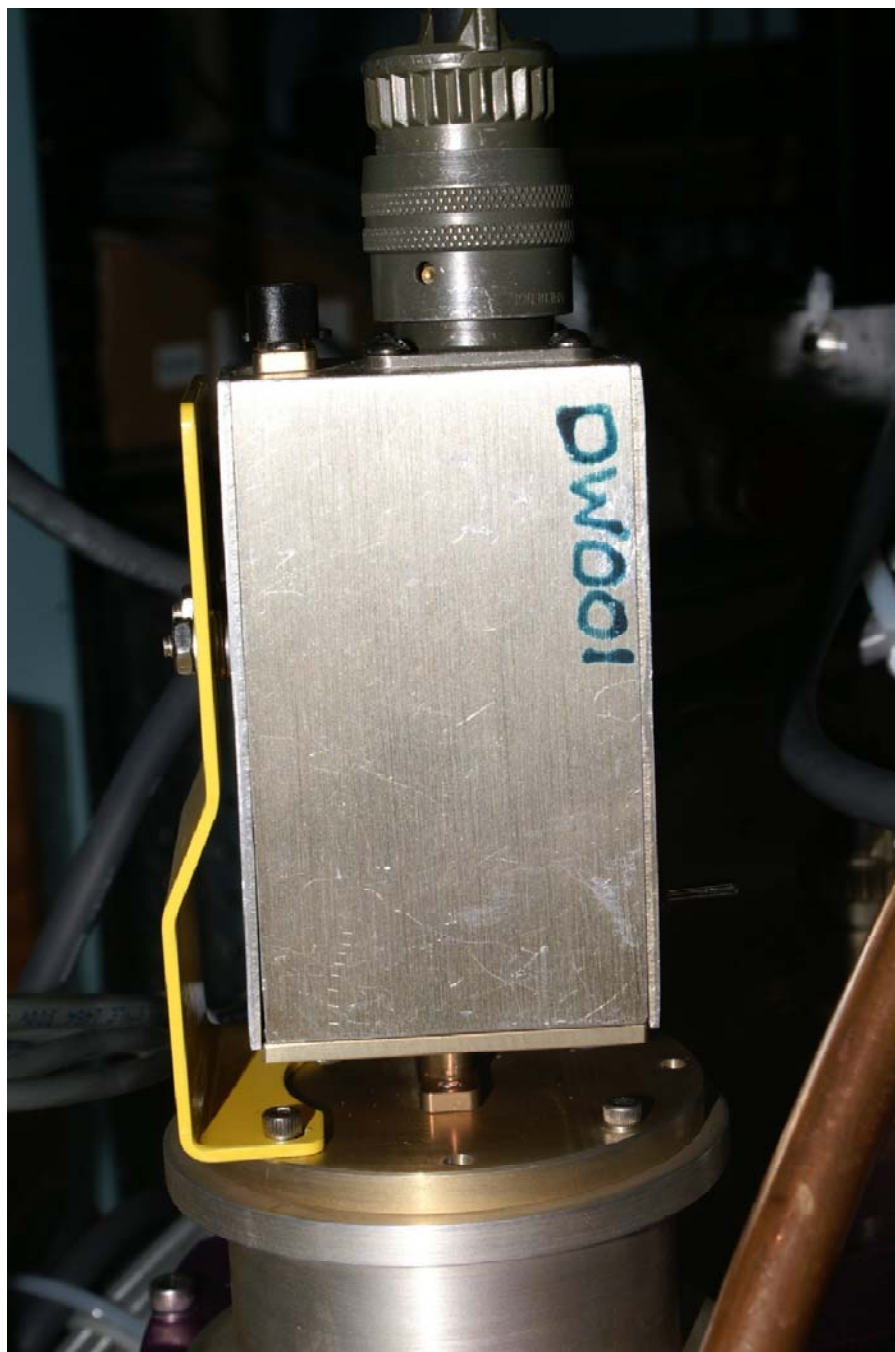


SIS Preamp change to MDM-15 with support bracket.



Kooi. 02 march, 2011

SIS Preamp change to MDM-15 with support bracket.



New Dual SIS bias box on Barney (Dewar has NO feedthrough capacitors)

CV: Oscillates as shown up to 5mV. Above 5mV no oscillation (± 6.49 mV for $R_n=5.69$ Ohm)

CI: No Oscillation over entire bias range (± 6.49 mV for $R_n=5.69$ Ohm)

OL: No Oscillation over entire bias range (± 5.59 mV for $R_n=5.69$ Ohm)

Sweep Oscillator:

OK on slow rate,
Hysteretic on fast rate.

$f_{\text{osc}}=16.1975$ KHz

$V_{\text{sis}}=\pm 20\text{mV}$?

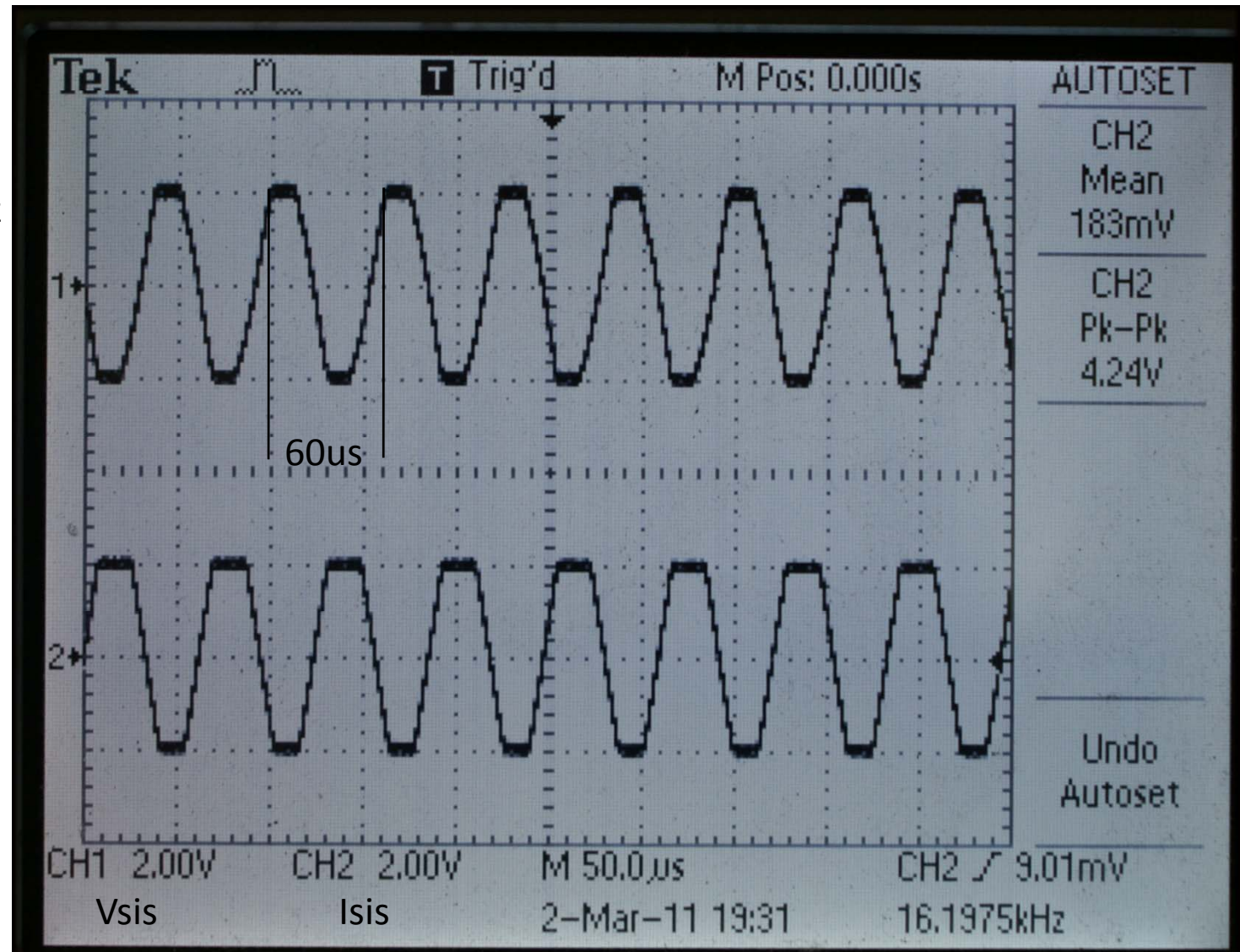
$I_{\text{sis}} = \pm 20\text{mA}$?

$R_n=5.7$ Ohm??

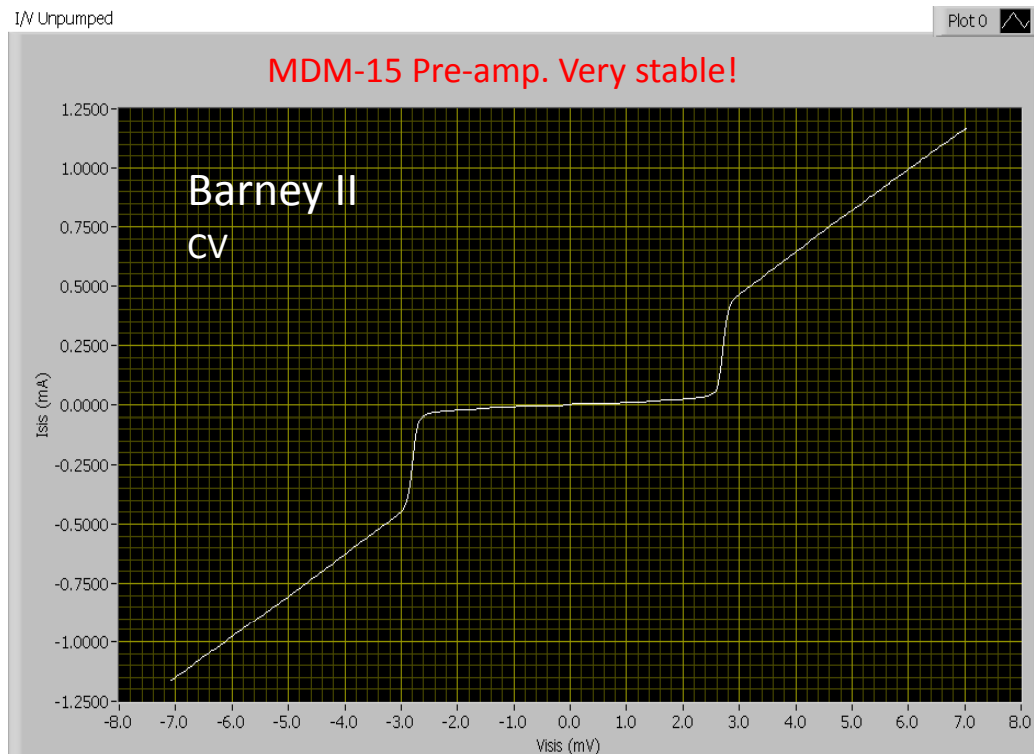
Not all of this
across SIS



CV: Loop gain
Probably a bit
too high



401 points
10 ave
360ms/point
+- 7mV
35uV/data point



Old single SIS Bias box
after new Dual-SIS bias
experiment.

No change in I/V curve
 $R_n = 5.69 \text{ Ohm}$
 $I_0 | 2\text{mV} = 22\text{uA}$

401 points
10 ave
360ms/point
+- 7mV
35uV/data point

